



13. DL/UL carrier aggregation

<LTE Carrier Aggregation combinations>

General Note:

- 1. This device supports Carrier Aggregation on Uplink and downlink for inter and intra band. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.
3. The device support 4x4 MIMO in LTE B7/B38/B41, the below DL CA power verification is consider maximum 4x4 combination to be verify, for example: in CA\_7A-7A supports different 4x4 MIMO configuration of 7A, 7A-7A, the DL CA power verification is selected 7A 4x4 + 7A 4x4 to verify uplink maximum output power with downlink carrier aggregation active does not show more than 1/4 dB higher than the maximum output power without downlink carrier aggregation active.

Table with 10 rows and 10 columns. Columns are grouped into '2CC Downlink Carrier Aggregation' and '2CC Uplink Carrier Aggregation'. Headers include Number, Combination, 4X4 MIMO, Restriction, and Covered by Measurement Superset.



**<Power verification for DL Carrier Aggregation>**

**General Note:**

1. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
2. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
3. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
4. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
5. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
6. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

**<Two Carrier power verification>**

Configure		PCC						SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Intra-Band	Non-Contiguous	5	10	844	20600	QPSK	1	0	5	5	871.5	2425	24.51	24.57
		7	20	2510	20850	QPSK	1	99	7	5	2687.5	3425	24.38	24.48
		66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	24.40	24.40
		41	20	2680	41490	QPSK	1	99	41	20	2549.5	40185	24.60	24.78
	Contiguous	5	10	844	20600	QPSK	1	0	5	5	881.80	2528	24.47	24.57
		7	20	2510	20850	QPSK	1	99	7	20	2649.80	3048	24.43	24.48
		38	20	2610	38150	QPSK	1	99	38	20	2590.20	37952	24.78	24.78
		66	15	1717.5	132047	QPSK	1	0	66	5	2126.80	66604	24.22	24.28
		66	20	1745	132322	QPSK	1	0	66	20	2164.80	67084	24.40	24.40
		41	20	2680	41490	QPSK	1	99	41	20	2660.2	41292	24.63	24.78



**<Uplink Carrier Aggregation Active>**

**<Intra-Band Uplink carrier aggregation>**

**General Note:**

1. The device supports intra-band uplink carrier aggregation for LTE B7/B41 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
2. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
3. Uplink CA is only operating with power class3, and additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

**<Standalone>**

**<Head>**

CA_7C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.57	24.8
21100	20902	QPSK	1	0	1	99	2	0	24.45	24.8
21350	21152	QPSK	1	0	1	99	2	0	24.41	24.8

CA_7C_Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.81	24.5
21100	20902	QPSK	1	0	1	99	2	0	23.35	24.5
21350	21152	QPSK	1	0	1	99	2	0	23.34	24.5

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.55	19.5
21100	20902	QPSK	1	0	1	99	2	0	18.37	19.5
21350	21152	QPSK	1	0	1	99	2	0	18.36	19.5



CA_41C_Ant 0b/Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.66	24.80
40185	39987	QPSK	1	0	1	99	2	0	24.31	24.80
40620	40422	QPSK	1	0	1	99	2	0	24.58	24.80
41055	40857	QPSK	1	0	1	99	2	0	24.79	24.80
41490	41292	QPSK	1	0	1	99	2	0	24.52	24.80

CA_41C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.99	21.50
40185	39987	QPSK	1	0	1	99	2	0	20.01	21.50
40620	40422	QPSK	1	0	1	99	2	0	20.09	21.50
41055	40857	QPSK	1	0	1	99	2	0	20.1	21.50
41490	41292	QPSK	1	0	1	99	2	0	20.05	21.50

<Body-worn>

CA_7C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.00	19
21100	20902	QPSK	1	0	1	99	2	0	17.40	19
21350	21152	QPSK	1	0	1	99	2	0	17.35	19

CA_7C_Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.81	24.8
21100	20902	QPSK	1	0	1	99	2	0	23.35	24.8
21350	21152	QPSK	1	0	1	99	2	0	23.34	24.8

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.57	24.8
21100	20902	QPSK	1	0	1	99	2	0	24.45	24.8
21350	21152	QPSK	1	0	1	99	2	0	24.41	24.8



CA_41C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.51	21.50
40185	39987	QPSK	1	0	1	99	2	0	19.71	21.50
40620	40422	QPSK	1	0	1	99	2	0	19.7	21.50
41055	40857	QPSK	1	0	1	99	2	0	19.74	21.50
41490	41292	QPSK	1	0	1	99	2	0	19.69	21.50

CA_41C_Ant 0c/Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.66	24.80
40185	39987	QPSK	1	0	1	99	2	0	24.31	24.80
40620	40422	QPSK	1	0	1	99	2	0	24.58	24.80
41055	40857	QPSK	1	0	1	99	2	0	24.79	24.80
41490	41292	QPSK	1	0	1	99	2	0	24.52	24.80

**<Simultaneous Transmission is active>**

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CA_7C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.57	24.8
21100	20902	QPSK	1	0	1	99	2	0	24.45	24.8
21350	21152	QPSK	1	0	1	99	2	0	24.41	24.8

CA_7C_Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.81	23.5
21100	20902	QPSK	1	0	1	99	2	0	23.35	23.5
21350	21152	QPSK	1	0	1	99	2	0	23.34	23.5

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.55	19
21100	20902	QPSK	1	0	1	99	2	0	18.37	19
21350	21152	QPSK	1	0	1	99	2	0	18.36	19



CA_41C_Ant 0b/Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.66	24.80
40185	39987	QPSK	1	0	1	99	2	0	24.31	24.80
40620	40422	QPSK	1	0	1	99	2	0	24.58	24.80
41055	40857	QPSK	1	0	1	99	2	0	24.79	24.80
41490	41292	QPSK	1	0	1	99	2	0	24.52	24.80

CA_41C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.99	21.00
40185	39987	QPSK	1	0	1	99	2	0	20.01	21.00
40620	40422	QPSK	1	0	1	99	2	0	20.09	21.00
41055	40857	QPSK	1	0	1	99	2	0	20.1	21.00
41490	41292	QPSK	1	0	1	99	2	0	20.05	21.00

**<Hotspot>**

CA_7C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	16.57	17.5
21100	20902	QPSK	1	0	1	99	2	0	17.40	17.5
21350	21152	QPSK	1	0	1	99	2	0	17.35	17.5

CA_7C_Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	20.47	22
21100	20902	QPSK	1	0	1	99	2	0	21.33	22
21350	21152	QPSK	1	0	1	99	2	0	21.32	22

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.57	24.8
21100	20902	QPSK	1	0	1	99	2	0	24.45	24.8
21350	21152	QPSK	1	0	1	99	2	0	24.41	24.8



CA_41C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.51	20.00
40185	39987	QPSK	1	0	1	99	2	0	19.71	20.00
40620	40422	QPSK	1	0	1	99	2	0	19.7	20.00
41055	40857	QPSK	1	0	1	99	2	0	19.74	20.00
41490	41292	QPSK	1	0	1	99	2	0	19.69	20.00

CA_41C_Ant 0c/Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.66	24.80
40185	39987	QPSK	1	0	1	99	2	0	24.31	24.80
40620	40422	QPSK	1	0	1	99	2	0	24.58	24.80
41055	40857	QPSK	1	0	1	99	2	0	24.79	24.80
41490	41292	QPSK	1	0	1	99	2	0	24.52	24.80

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CA_7C_Ant 0c										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.81	23.5
21100	20902	QPSK	1	0	1	99	2	0	23.35	23.5
21350	21152	QPSK	1	0	1	99	2	0	23.34	23.5

CA_7C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.00	17.5
21100	20902	QPSK	1	0	1	99	2	0	17.40	17.5
21350	21152	QPSK	1	0	1	99	2	0	17.35	17.5

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.57	24.8
21100	20902	QPSK	1	0	1	99	2	0	24.45	24.8
21350	21152	QPSK	1	0	1	99	2	0	24.41	24.8



CA_41C_Ant 0b										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.51	20.00
40185	39987	QPSK	1	0	1	99	2	0	19.71	20.00
40620	40422	QPSK	1	0	1	99	2	0	19.7	20.00
41055	40857	QPSK	1	0	1	99	2	0	19.74	20.00
41490	41292	QPSK	1	0	1	99	2	0	19.69	20.00

CA_41C_Ant 0c/Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.66	24.80
40185	39987	QPSK	1	0	1	99	2	0	24.31	24.80
40620	40422	QPSK	1	0	1	99	2	0	24.58	24.80
41055	40857	QPSK	1	0	1	99	2	0	24.79	24.80
41490	41292	QPSK	1	0	1	99	2	0	24.52	24.80

### 14. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0b	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 0a	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 0c	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
2.4GHz/5GHz WLAN/BT Ant 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
2.4GHz WLAN Ant 3	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm

Positions for SAR tests; Hotspot mode						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0b	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 0a	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 0c	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
2.4GHz/5GHz WLAN/BT Ant 2	Yes	Yes	Yes	No	No	Yes
2.4GHz WLAN Ant 3	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 5	Yes	Yes	Yes	No	No	Yes

**General Note:**

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm\*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The detail antenna location refers to operational description.





## 15. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
4. Pre KDB648474 D04v01r03, when the reported SAR for a 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.

### GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

### UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B12/B13/B26/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, 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.
7. LTE B2/B4/B5/B17/B38 SAR test was covered by B12/B25/B26/B66/B41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
8. For UL CA, SAR was first measured with only a single carrier active in the uplink (CA non-active) for each exposure condition; the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when UL CA was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power
9. PC2: Power Class 2

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. When in MIMO SAR testing, if the hot spots are separated the scaling factor would scale each hot spot based on the difference between the power for that transmit antenna and the maximum rated power, if the hot spot were not separable or too much overlap which the scaling factor is the worst case rated power/measured power across the two chains in SAR calculation.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



15.1 Head SAR

<GSM SAR>

Standalone												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0A	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	30.16	30.50	1.081	-0.09	0.300	0.324
	GSM850_Ant 0A	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	30.16	30.50	1.081	-0.04	0.232	0.251
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Cheek	0mm	128	824.2	30.16	30.50	1.081	-0.13	0.412	0.446
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Tilted	0mm	128	824.2	30.16	30.50	1.081	0.07	0.231	0.250
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	26.23	27.50	1.340	-0.01	0.729	0.977
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	26.03	27.50	1.403	-0.01	0.709	0.995
01	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	26.11	27.50	1.377	0.11	0.843	1.161
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	26.23	27.50	1.340	0.15	0.622	0.833
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	26.03	27.50	1.403	-0.02	0.606	0.850
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	26.11	27.50	1.377	-0.14	0.618	0.851
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	26.23	27.50	1.340	-0.06	0.467	0.626
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	26.23	27.50	1.340	-0.09	0.491	0.658
Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0A	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	30.16	30.50	1.081	-0.09	0.300	0.324
	GSM850_Ant 0A	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	30.16	30.50	1.081	-0.04	0.232	0.251
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Cheek	0mm	128	824.2	30.16	30.50	1.081	-0.13	0.412	0.446
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Tilted	0mm	128	824.2	30.16	30.50	1.081	0.07	0.231	0.250
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	26.23	26.50	1.064	-0.01	0.729	0.776
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	26.03	26.50	1.114	-0.01	0.709	0.790
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	26.11	26.50	1.094	0.11	0.843	0.922
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	26.23	26.50	1.064	0.15	0.622	0.662
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	26.03	26.50	1.114	-0.02	0.606	0.675
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	26.11	26.50	1.094	-0.14	0.618	0.676
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	26.23	26.50	1.064	-0.06	0.467	0.497
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	26.23	26.50	1.064	-0.09	0.491	0.522



Standalone												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	26.81	28.00	1.315	0.04	0.298	0.392
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	26.81	28.00	1.315	0	0.109	0.143
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Left Cheek	0mm	661	1880	26.81	28.00	1.315	-0.02	0.257	0.338
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Left Tilted	0mm	661	1880	26.81	28.00	1.315	0.18	0.125	0.164
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	21.68	23.50	1.521	0.18	0.654	0.994
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	21.61	23.50	1.545	-0.03	0.617	0.953
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	810	1909.8	21.55	23.50	1.567	0.1	0.691	1.083
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	21.68	23.50	1.521	0.03	0.707	1.075
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	21.61	23.50	1.545	0.06	0.706	1.091
02	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	810	1909.8	21.55	23.50	1.567	0.11	0.747	1.170
	GSM1900_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	21.68	23.50	1.521	-0.03	0.197	0.300
	GSM1900_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	21.68	23.50	1.521	0.03	0.277	0.421
Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	26.81	28.00	1.315	0.04	0.298	0.392
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	26.81	28.00	1.315	0	0.109	0.143
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Left Cheek	0mm	661	1880	26.81	28.00	1.315	-0.02	0.257	0.338
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Left Tilted	0mm	661	1880	26.81	28.00	1.315	0.18	0.125	0.164
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	512	1850.2	21.68	22.50	1.208	0.18	0.654	0.790
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	661	1880	21.61	22.50	1.227	-0.03	0.617	0.757
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	810	1909.8	21.55	22.50	1.245	0.1	0.691	0.860
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	512	1850.2	21.68	22.50	1.208	0.03	0.707	0.854
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	661	1880	21.61	22.50	1.227	0.06	0.706	0.867
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	810	1909.8	21.55	22.50	1.245	0.11	0.747	0.930
	GSM1900_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	512	1850.2	21.68	22.50	1.208	-0.03	0.197	0.238
	GSM1900_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	512	1850.2	21.68	22.50	1.208	0.03	0.277	0.335



<WCDMA SAR>

Standalone												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 0b	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	24.53	24.75	1.052	0.09	0.352	0.370
	WCDMA II_Ant 0b	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	24.53	24.75	1.052	0.03	0.121	0.127
	WCDMA II_Ant 0b	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	24.53	24.75	1.052	0.13	0.255	0.268
	WCDMA II_Ant 0b	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	24.53	24.75	1.052	0.07	0.124	0.130
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	18.65	20.00	1.365	0.12	0.666	0.909
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	18.58	20.00	1.387	0.14	0.660	0.915
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	18.60	20.00	1.380	0.13	0.728	1.005
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	18.65	20.00	1.365	0.16	0.760	1.037
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	18.58	20.00	1.387	0.17	0.760	1.054
03	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	18.60	20.00	1.380	0.15	0.823	1.136
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	18.65	20.00	1.365	-0.01	0.254	0.347
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	18.65	20.00	1.365	0.05	0.350	0.478
Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 0b	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	24.53	24.75	1.052	0.09	0.352	0.370
	WCDMA II_Ant 0b	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	24.53	24.75	1.052	0.03	0.121	0.127
	WCDMA II_Ant 0b	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	24.53	24.75	1.052	0.13	0.255	0.268
	WCDMA II_Ant 0b	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	24.53	24.75	1.052	0.07	0.124	0.130
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	18.65	19.00	1.084	0.12	0.666	0.722
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	18.58	19.00	1.102	0.14	0.660	0.727
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	18.60	19.00	1.096	0.13	0.728	0.798
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	18.65	19.00	1.084	0.16	0.760	0.824
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	18.58	19.00	1.102	0.17	0.760	0.837
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	18.60	19.00	1.096	0.15	0.823	0.902
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	18.65	19.00	1.084	-0.01	0.254	0.275
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	18.65	19.00	1.084	0.05	0.350	0.379



Standalone												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.03	0.235	0.247
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.01	0.151	0.159
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	24.53	24.75	1.052	-0.07	0.329	0.346
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.08	0.154	0.162
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.16	0.047	0.049
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.13	0.048	0.050
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.11	0.146	0.154
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.02	0.061	0.064
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	20.19	21.50	1.352	0.1	0.583	0.788
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	20.19	21.50	1.352	0.12	0.689	0.932
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	20.18	21.50	1.355	0.12	0.702	0.951
04	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	20.16	21.50	1.361	0.15	0.809	1.101
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	20.19	21.50	1.352	0.03	0.252	0.341
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	20.19	21.50	1.352	0.13	0.322	0.435
Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.03	0.235	0.247
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.01	0.151	0.159
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	24.53	24.75	1.052	-0.07	0.329	0.346
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.08	0.154	0.162
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.16	0.047	0.049
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.13	0.048	0.050
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	24.53	24.75	1.052	0.11	0.146	0.154
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	24.53	24.75	1.052	0.02	0.061	0.064
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	20.19	21.00	1.205	0.1	0.583	0.703
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	20.19	21.00	1.205	0.12	0.689	0.830
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	20.18	21.00	1.208	0.12	0.702	0.848
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	20.16	21.00	1.213	0.15	0.809	0.982
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	20.19	21.00	1.205	0.03	0.252	0.304
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	20.19	21.00	1.205	0.13	0.322	0.388



Standalone												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_Ant 0A	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	24.78	25.00	1.052	0.09	0.361	0.380
	WCDMA V_Ant 0A	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	24.78	25.00	1.052	-0.01	0.260	0.274
	WCDMA V_Ant 0A	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	24.78	25.00	1.052	-0.07	0.434	0.457
	WCDMA V_Ant 0A	RMC 12.2Kbps	Left Tilted	0mm	4132	826.4	24.78	25.00	1.052	0.02	0.167	0.176
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	21.83	23.50	1.469	-0.06	0.690	1.014
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	21.82	23.50	1.472	0.03	0.675	0.994
05	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4233	846.6	21.78	23.50	1.486	-0.07	0.763	1.134
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	21.83	23.50	1.469	-0.09	0.601	0.883
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	21.82	23.50	1.472	-0.1	0.557	0.820
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4233	846.6	21.78	23.50	1.486	-0.14	0.587	0.872
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	4182	836.4	21.83	23.50	1.469	-0.12	0.452	0.664
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	4182	836.4	21.83	23.50	1.469	-0.01	0.410	0.602
Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_Ant 0A	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	24.78	25.00	1.052	0.09	0.361	0.380
	WCDMA V_Ant 0A	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	24.78	25.00	1.052	-0.01	0.260	0.274
	WCDMA V_Ant 0A	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	24.78	25.00	1.052	-0.07	0.434	0.457
	WCDMA V_Ant 0A	RMC 12.2Kbps	Left Tilted	0mm	4132	826.4	24.78	25.00	1.052	0.02	0.167	0.176
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	21.83	22.50	1.167	-0.06	0.690	0.805
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	21.82	22.50	1.169	0.03	0.675	0.789
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	4233	846.6	21.78	22.50	1.180	-0.07	0.763	0.901
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	21.83	22.50	1.167	-0.09	0.601	0.701
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	21.82	22.50	1.169	-0.1	0.557	0.651
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	4233	846.6	21.78	22.50	1.180	-0.14	0.587	0.693
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	4182	836.4	21.83	22.50	1.167	-0.12	0.452	0.527
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	4182	836.4	21.83	22.50	1.167	-0.01	0.410	0.478

**<FDD LTE SAR>**

Standalone / Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Right Cheek	0mm	20175	1732.5	24.26	24.75	1.119	-0.01	0.228	0.255
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Right Cheek	0mm	20175	1732.5	23.34	23.75	1.099	0	0.190	0.209
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Right Tilted	0mm	20175	1732.5	24.26	24.75	1.119	-0.01	0.156	0.175
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Right Tilted	0mm	20175	1732.5	23.34	23.75	1.099	0.02	0.126	0.138
06	LTE Band 4_Ant 0c	20M	QPSK	1	0	Left Cheek	0mm	20175	1732.5	24.26	24.75	1.119	-0.07	0.486	0.544
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Left Cheek	0mm	20175	1732.5	23.34	23.75	1.099	0.14	0.401	0.441
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Left Tilted	0mm	20175	1732.5	24.26	24.75	1.119	0.01	0.216	0.242
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Left Tilted	0mm	20175	1732.5	23.34	23.75	1.099	0.03	0.175	0.192





Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	20850	2510	24.48	24.80	1.076	0.06	0.628	0.676
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Right Cheek	0mm	20850	2510	23.55	23.80	1.059	0.08	0.511	0.541
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Right Tilted	0mm	20850	2510	24.48	24.80	1.076	-0.06	0.233	0.251
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Right Tilted	0mm	20850	2510	23.55	23.80	1.059	0.03	0.191	0.202
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Left Cheek	0mm	20850	2510	24.48	24.80	1.076	-0.06	0.389	0.419
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Left Cheek	0mm	20850	2510	23.55	23.80	1.059	-0.04	0.330	0.350
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Left Tilted	0mm	20850	2510	24.48	24.80	1.076	0.07	0.321	0.346
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Left Tilted	0mm	20850	2510	23.55	23.80	1.059	0.01	0.260	0.275
	LTE Band 7C_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	24.45	24.80	1.084	0.01	0.591	0.641
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Right Cheek	0mm	21350	2560	23.13	24.50	1.371	0.18	0.383	0.525
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Right Cheek	0mm	21350	2560	23.22	23.50	1.067	0.15	0.395	0.421
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Right Tilted	0mm	21350	2560	23.13	24.50	1.371	0.14	0.274	0.376
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Right Tilted	0mm	21350	2560	23.22	23.50	1.067	-0.05	0.281	0.300
07	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	21350	2560	23.13	24.50	1.371	0.07	0.833	1.142
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	20850	2510	23.08	24.50	1.387	0.02	0.663	0.919
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	21100	2535	23.08	24.50	1.387	-0.05	0.755	1.047
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	21350	2560	23.22	23.50	1.067	0.12	0.846	0.902
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	20850	2510	23.16	23.50	1.081	0.08	0.672	0.727
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	21100	2535	23.17	23.50	1.079	0.1	0.764	0.824
	LTE Band 7_Ant 0c	20M	QPSK	100	0	Left Cheek	0mm	21350	2560	23.19	23.50	1.074	0.11	0.856	0.919
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Tilted	0mm	21350	2560	23.13	24.50	1.371	0.17	0.166	0.228
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Tilted	0mm	21350	2560	23.22	23.50	1.067	-0.13	0.170	0.181
	LTE Band 7C_Ant 0c	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	23.35	24.50	1.303	0.07	0.831	1.083
	LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	21350	2560	18.11	19.50	1.377	0	0.757	1.043
	LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	20850	2510	18.03	19.50	1.403	0.04	0.726	1.018
	LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	21100	2535	18.02	19.50	1.406	0.07	0.731	1.028
	LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	21350	2560	18.18	19.50	1.355	0.11	0.778	1.054
	LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	20850	2510	18.14	19.50	1.368	-0.17	0.738	1.009
	LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	21100	2535	18.14	19.50	1.368	0.02	0.799	1.093
	LTE Band 7_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	21350	2560	18.17	19.50	1.358	0.06	0.788	1.070
	LTE Band 7_Ant 1	20M	QPSK	1	99	Right Tilted	0mm	21350	2560	18.11	19.50	1.377	0.15	0.555	0.764
	LTE Band 7_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	21350	2560	18.18	19.50	1.355	0	0.570	0.772
	LTE Band 7_Ant 1	20M	QPSK	1	99	Left Cheek	0mm	21350	2560	18.11	19.50	1.377	0.03	0.231	0.318
	LTE Band 7_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	21350	2560	18.18	19.50	1.355	-0.05	0.237	0.321
	LTE Band 7_Ant 1	20M	QPSK	1	99	Left Tilted	0mm	21350	2560	18.11	19.50	1.377	0.01	0.161	0.222
	LTE Band 7_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	21350	2560	18.18	19.50	1.355	0.06	0.171	0.232
	LTE Band 7C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.37	19.50	1.297	0.03	0.793	1.029
Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	20850	2510	24.48	24.80	1.076	0.06	0.628	0.676
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Right Cheek	0mm	20850	2510	23.55	23.80	1.059	0.08	0.511	0.541
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Right Tilted	0mm	20850	2510	24.48	24.80	1.076	-0.06	0.233	0.251
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Right Tilted	0mm	20850	2510	23.55	23.80	1.059	0.03	0.191	0.202
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Left Cheek	0mm	20850	2510	24.48	24.80	1.076	-0.06	0.389	0.419
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Left Cheek	0mm	20850	2510	23.55	23.80	1.059	-0.04	0.330	0.350
	LTE Band 7_Ant 0b	20M	QPSK	1	99	Left Tilted	0mm	20850	2510	24.48	24.80	1.076	0.07	0.321	0.346
	LTE Band 7_Ant 0b	20M	QPSK	50	50	Left Tilted	0mm	20850	2510	23.55	23.80	1.059	0.01	0.260	0.275
	LTE Band 7C_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	24.45	24.80	1.084	0.01	0.591	0.641
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Right Cheek	0mm	21350	2560	23.13	23.50	1.089	0.18	0.383	0.417
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Right Cheek	0mm	21350	2560	23.22	23.50	1.067	0.15	0.395	0.421
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Right Tilted	0mm	21350	2560	23.13	23.50	1.089	0.14	0.274	0.298





**FCC SAR TEST REPORT**

**Report No. : FA8N0616-06A**

LTE Band 7_Ant 0c	20M	QPSK	50	50	Right Tilted	0mm	21350	2560	23.22	23.50	1.067	-0.05	0.281	0.300
LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	21350	2560	23.13	23.50	1.089	0.07	0.833	0.907
LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	20850	2510	23.08	23.50	1.102	0.02	0.663	0.730
LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	21100	2535	23.08	23.50	1.102	-0.05	0.755	0.832
LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	21350	2560	23.22	23.50	1.067	0.12	0.846	0.902
LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	20850	2510	23.16	23.50	1.081	0.08	0.672	0.727
LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	21100	2535	23.17	23.50	1.079	0.1	0.764	0.824
LTE Band 7_Ant 0c	20M	QPSK	100	0	Left Cheek	0mm	21350	2560	23.19	23.50	1.074	0.11	0.856	0.919
LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Tilted	0mm	21350	2560	23.13	23.50	1.089	0.17	0.166	0.181
LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Tilted	0mm	21350	2560	23.22	23.50	1.067	-0.13	0.170	0.181
LTE Band 7C_Ant 0c	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	23.35	23.50	1.035	0.07	0.831	0.860
LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	21350	2560	18.11	19.00	1.227	0	0.757	0.929
LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	20850	2510	18.03	19.00	1.250	0.04	0.726	0.908
LTE Band 7_Ant 1	20M	QPSK	1	99	Right Cheek	0mm	21100	2535	18.02	19.00	1.253	0.07	0.731	0.916
LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	21350	2560	18.18	19.00	1.208	0.11	0.778	0.940
LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	20850	2510	18.14	19.00	1.219	-0.17	0.738	0.900
LTE Band 7_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	21100	2535	18.14	19.00	1.219	0.02	0.799	0.974
LTE Band 7_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	21350	2560	18.17	19.00	1.211	0.06	0.788	0.954
LTE Band 7_Ant 1	20M	QPSK	1	99	Right Tilted	0mm	21350	2560	18.11	19.00	1.227	0.15	0.555	0.681
LTE Band 7_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	21350	2560	18.18	19.00	1.208	0	0.570	0.688
LTE Band 7_Ant 1	20M	QPSK	1	99	Left Cheek	0mm	21350	2560	18.11	19.00	1.227	0.03	0.231	0.284
LTE Band 7_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	21350	2560	18.18	19.00	1.208	-0.05	0.237	0.286
LTE Band 7_Ant 1	20M	QPSK	1	99	Left Tilted	0mm	21350	2560	18.11	19.00	1.227	0.01	0.161	0.198
LTE Band 7_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	21350	2560	18.18	19.00	1.208	0.06	0.171	0.207
LTE Band 7C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.37	19.00	1.156	0.03	0.793	0.917



Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Right Cheek	0mm	23095	707.5	24.58	25.00	1.102	0.02	0.232	0.256
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Right Cheek	0mm	23095	707.5	23.71	24.00	1.069	0.02	0.192	0.205
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Right Tilted	0mm	23095	707.5	24.58	25.00	1.102	0.01	0.094	0.104
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Right Tilted	0mm	23095	707.5	23.71	24.00	1.069	-0.03	0.075	0.080
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Left Cheek	0mm	23095	707.5	24.58	25.00	1.102	0.03	0.282	0.311
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Left Cheek	0mm	23095	707.5	23.71	24.00	1.069	-0.04	0.231	0.247
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Left Tilted	0mm	23095	707.5	24.58	25.00	1.102	0.04	0.143	0.158
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Left Tilted	0mm	23095	707.5	23.71	24.00	1.069	0.01	0.117	0.125
	LTE Band 12_Ant 1	10M	QPSK	1	49	Right Cheek	0mm	23095	707.5	22.73	24.00	1.340	-0.01	0.768	1.029
	LTE Band 12_Ant 1	10M	QPSK	25	12	Right Cheek	0mm	23095	707.5	22.84	24.00	1.306	0.04	0.810	1.058
08	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	23095	707.5	22.82	24.00	1.312	-0.04	0.851	1.117
	LTE Band 12_Ant 1	10M	QPSK	1	49	Right Tilted	0mm	23095	707.5	22.73	24.00	1.340	-0.07	0.633	0.848
	LTE Band 12_Ant 1	10M	QPSK	25	12	Right Tilted	0mm	23095	707.5	22.84	24.00	1.306	-0.06	0.691	0.903
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	23095	707.5	22.82	24.00	1.312	0.02	0.685	0.899
	LTE Band 12_Ant 1	10M	QPSK	1	49	Left Cheek	0mm	23095	707.5	22.73	24.00	1.340	-0.03	0.435	0.583
	LTE Band 12_Ant 1	10M	QPSK	25	12	Left Cheek	0mm	23095	707.5	22.84	24.00	1.306	-0.06	0.484	0.632
	LTE Band 12_Ant 1	10M	QPSK	1	49	Left Tilted	0mm	23095	707.5	22.73	24.00	1.340	-0.05	0.422	0.565
	LTE Band 12_Ant 1	10M	QPSK	25	12	Left Tilted	0mm	23095	707.5	22.84	24.00	1.306	-0.07	0.464	0.606
Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Right Cheek	0mm	23095	707.5	24.58	25.00	1.102	0.02	0.232	0.256
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Right Cheek	0mm	23095	707.5	23.71	24.00	1.069	0.02	0.192	0.205
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Right Tilted	0mm	23095	707.5	24.58	25.00	1.102	0.01	0.094	0.104
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Right Tilted	0mm	23095	707.5	23.71	24.00	1.069	-0.03	0.075	0.080
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Left Cheek	0mm	23095	707.5	24.58	25.00	1.102	0.03	0.282	0.311
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Left Cheek	0mm	23095	707.5	23.71	24.00	1.069	-0.04	0.231	0.247
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Left Tilted	0mm	23095	707.5	24.58	25.00	1.102	0.04	0.143	0.158
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Left Tilted	0mm	23095	707.5	23.71	24.00	1.069	0.01	0.117	0.125
	LTE Band 12_Ant 1	10M	QPSK	1	49	Right Cheek	0mm	23095	707.5	22.73	23.50	1.194	-0.01	0.768	0.917
	LTE Band 12_Ant 1	10M	QPSK	25	12	Right Cheek	0mm	23095	707.5	22.84	23.50	1.164	0.04	0.810	0.943
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	23095	707.5	22.82	23.50	1.169	-0.04	0.851	0.995
	LTE Band 12_Ant 1	10M	QPSK	1	49	Right Tilted	0mm	23095	707.5	22.73	23.50	1.194	-0.07	0.633	0.756
	LTE Band 12_Ant 1	10M	QPSK	25	12	Right Tilted	0mm	23095	707.5	22.84	23.50	1.164	-0.06	0.691	0.804
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	23095	707.5	22.82	23.50	1.169	0.02	0.685	0.801
	LTE Band 12_Ant 1	10M	QPSK	1	49	Left Cheek	0mm	23095	707.5	22.73	23.50	1.194	-0.03	0.435	0.519
	LTE Band 12_Ant 1	10M	QPSK	25	12	Left Cheek	0mm	23095	707.5	22.84	23.50	1.164	-0.06	0.484	0.563
	LTE Band 12_Ant 1	10M	QPSK	1	49	Left Tilted	0mm	23095	707.5	22.73	23.50	1.194	-0.05	0.422	0.504
	LTE Band 12_Ant 1	10M	QPSK	25	12	Left Tilted	0mm	23095	707.5	22.84	23.50	1.164	-0.07	0.464	0.540



Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Right Cheek	0mm	23230	782	24.53	25.00	1.114	0.03	0.255	0.284
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Right Cheek	0mm	23230	782	23.67	24.00	1.079	0.02	0.214	0.231
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Right Tilted	0mm	23230	782	24.53	25.00	1.114	0.07	0.189	0.211
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Right Tilted	0mm	23230	782	23.67	24.00	1.079	-0.03	0.148	0.160
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Left Cheek	0mm	23230	782	24.53	25.00	1.114	0.08	0.330	0.368
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Left Cheek	0mm	23230	782	23.67	24.00	1.079	-0.03	0.276	0.298
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Left Tilted	0mm	23230	782	24.53	25.00	1.114	-0.01	0.132	0.147
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Left Tilted	0mm	23230	782	23.67	24.00	1.079	0.04	0.113	0.122
	LTE Band 13_Ant 1	10M	QPSK	1	49	Right Cheek	0mm	23230	782	22.35	23.50	1.303	0.07	0.807	1.052
09	LTE Band 13_Ant 1	10M	QPSK	25	12	Right Cheek	0mm	23230	782	22.53	23.50	1.250	-0.08	0.897	1.121
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	23230	782	22.51	23.50	1.256	-0.09	0.892	1.120
	LTE Band 13_Ant 1	10M	QPSK	1	49	Right Tilted	0mm	23230	782	22.35	23.50	1.303	0.05	0.591	0.770
	LTE Band 13_Ant 1	10M	QPSK	25	12	Right Tilted	0mm	23230	782	22.53	23.50	1.250	-0.07	0.645	0.806
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	23230	782	22.51	23.50	1.256	0.08	0.639	0.803
	LTE Band 13_Ant 1	10M	QPSK	1	49	Left Cheek	0mm	23230	782	22.35	23.50	1.303	-0.02	0.515	0.671
	LTE Band 13_Ant 1	10M	QPSK	25	12	Left Cheek	0mm	23230	782	22.53	23.50	1.250	-0.06	0.569	0.711
	LTE Band 13_Ant 1	10M	QPSK	1	49	Left Tilted	0mm	23230	782	22.35	23.50	1.303	0.01	0.502	0.654
	LTE Band 13_Ant 1	10M	QPSK	25	12	Left Tilted	0mm	23230	782	22.53	23.50	1.250	-0.07	0.556	0.695
Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Right Cheek	0mm	23230	782	24.53	25.00	1.114	0.03	0.255	0.284
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Right Cheek	0mm	23230	782	23.67	24.00	1.079	0.02	0.214	0.231
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Right Tilted	0mm	23230	782	24.53	25.00	1.114	0.07	0.189	0.211
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Right Tilted	0mm	23230	782	23.67	24.00	1.079	-0.03	0.148	0.160
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Left Cheek	0mm	23230	782	24.53	25.00	1.114	0.08	0.330	0.368
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Left Cheek	0mm	23230	782	23.67	24.00	1.079	-0.03	0.276	0.298
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Left Tilted	0mm	23230	782	24.53	25.00	1.114	-0.01	0.132	0.147
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Left Tilted	0mm	23230	782	23.67	24.00	1.079	0.04	0.113	0.122
	LTE Band 13_Ant 1	10M	QPSK	1	49	Right Cheek	0mm	23230	782	22.35	23.00	1.161	0.07	0.807	0.937
	LTE Band 13_Ant 1	10M	QPSK	25	12	Right Cheek	0mm	23230	782	22.53	23.00	1.114	-0.08	0.897	1.000
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	23230	782	22.51	23.00	1.119	-0.09	0.892	0.999
	LTE Band 13_Ant 1	10M	QPSK	1	49	Right Tilted	0mm	23230	782	22.35	23.00	1.161	0.05	0.591	0.686
	LTE Band 13_Ant 1	10M	QPSK	25	12	Right Tilted	0mm	23230	782	22.53	23.00	1.114	-0.07	0.645	0.719
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	23230	782	22.51	23.00	1.119	0.08	0.639	0.715
	LTE Band 13_Ant 1	10M	QPSK	1	49	Left Cheek	0mm	23230	782	22.35	23.00	1.161	-0.02	0.515	0.598
	LTE Band 13_Ant 1	10M	QPSK	25	12	Left Cheek	0mm	23230	782	22.53	23.00	1.114	-0.06	0.569	0.634
	LTE Band 13_Ant 1	10M	QPSK	1	49	Left Tilted	0mm	23230	782	22.35	23.00	1.161	0.01	0.502	0.583
	LTE Band 13_Ant 1	10M	QPSK	25	12	Left Tilted	0mm	23230	782	22.53	23.00	1.114	-0.07	0.556	0.620



Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	24.36	24.75	1.094	0.11	0.401	0.439
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Right Cheek	0mm	26340	1880	23.33	23.75	1.102	0.14	0.246	0.271
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	24.36	24.75	1.094	0.02	0.125	0.137
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Right Tilted	0mm	26340	1880	23.33	23.75	1.102	0.14	0.092	0.101
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	24.36	24.75	1.094	0.11	0.210	0.230
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Left Cheek	0mm	26340	1880	23.33	23.75	1.102	0.04	0.169	0.186
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	24.36	24.75	1.094	0.03	0.119	0.130
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Left Tilted	0mm	26340	1880	23.33	23.75	1.102	0.09	0.090	0.099
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	19.03	20.00	1.250	0	0.717	0.896
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	18.88	20.00	1.294	-0.02	0.711	0.920
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	19.02	20.00	1.253	-0.09	0.763	0.956
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26340	1880	19.07	20.00	1.239	0.14	0.782	0.969
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26140	1860	18.94	20.00	1.276	0.03	0.710	0.906
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26590	1905	19.06	20.00	1.242	0.02	0.797	0.990
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	26340	1880	19.02	20.00	1.253	0.12	0.732	0.917
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	19.03	20.00	1.250	0.1	0.797	0.996
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	18.88	20.00	1.294	0	0.820	1.061
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	19.02	20.00	1.253	0.03	0.891	1.117
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26340	1880	19.07	20.00	1.239	0.04	0.781	0.968
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26140	1860	18.94	20.00	1.276	0.03	0.816	1.042
10	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26590	1905	19.06	20.00	1.242	0.05	0.901	1.119
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	26340	1880	19.02	20.00	1.253	0.02	0.811	1.016
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	19.03	20.00	1.250	-0.05	0.277	0.346
	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Cheek	0mm	26340	1880	19.07	20.00	1.239	-0.04	0.294	0.364
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	19.03	20.00	1.250	-0.08	0.352	0.440
	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Tilted	0mm	26340	1880	19.07	20.00	1.239	-0.03	0.391	0.484
Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	24.36	24.75	1.094	0.11	0.401	0.439
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Right Cheek	0mm	26340	1880	23.33	23.75	1.102	0.14	0.246	0.271
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	24.36	24.75	1.094	0.02	0.125	0.137
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Right Tilted	0mm	26340	1880	23.33	23.75	1.102	0.14	0.092	0.101
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	24.36	24.75	1.094	0.11	0.210	0.230
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Left Cheek	0mm	26340	1880	23.33	23.75	1.102	0.04	0.169	0.186
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	24.36	24.75	1.094	0.03	0.119	0.130
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Left Tilted	0mm	26340	1880	23.33	23.75	1.102	0.09	0.090	0.099
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	19.03	19.50	1.114	0	0.717	0.799
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	18.88	19.50	1.153	-0.02	0.711	0.820
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	19.02	19.50	1.117	-0.09	0.763	0.852
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26340	1880	19.07	19.50	1.104	0.14	0.782	0.863
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26140	1860	18.94	19.50	1.138	0.03	0.710	0.808
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	26590	1905	19.06	19.50	1.107	0.02	0.797	0.882
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	26340	1880	19.02	19.50	1.117	0.12	0.732	0.818
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	19.03	19.50	1.114	0.1	0.797	0.888
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	18.88	19.50	1.153	0	0.820	0.946
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	19.02	19.50	1.117	0.03	0.891	0.995
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26340	1880	19.07	19.50	1.104	0.04	0.781	0.862
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26140	1860	18.94	19.50	1.138	0.03	0.816	0.928
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	26590	1905	19.06	19.50	1.107	0.05	0.901	0.997
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	26340	1880	19.02	19.50	1.117	0.02	0.811	0.906
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	19.03	19.50	1.114	-0.05	0.277	0.309



	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Cheek	0mm	26340	1880	19.07	19.50	1.104	-0.04	0.294	0.325
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	19.03	19.50	1.114	-0.08	0.352	0.392
	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Tilted	0mm	26340	1880	19.07	19.50	1.104	-0.03	0.391	0.432

Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Right Cheek	0mm	26865	831.5	24.59	25.00	1.099	0.04	0.307	0.337
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Right Cheek	0mm	26865	831.5	23.71	24.00	1.069	-0.01	0.264	0.282
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Right Tilted	0mm	26865	831.5	24.59	25.00	1.099	-0.05	0.228	0.251
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Right Tilted	0mm	26865	831.5	23.71	24.00	1.069	0.01	0.194	0.207
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Left Cheek	0mm	26865	831.5	24.59	25.00	1.099	-0.02	0.390	0.429
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Left Cheek	0mm	26865	831.5	23.71	24.00	1.069	-0.03	0.329	0.352
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Left Tilted	0mm	26865	831.5	24.59	25.00	1.099	-0.01	0.224	0.246
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Left Tilted	0mm	26865	831.5	23.71	24.00	1.069	-0.03	0.187	0.200
	LTE Band 26_Ant 1	15M	QPSK	1	74	Right Cheek	0mm	26865	831.5	22.51	23.50	1.256	-0.07	0.829	1.041
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Cheek	0mm	26865	831.5	22.66	23.50	1.213	-0.04	0.913	1.108
11	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	26865	831.5	22.66	23.50	1.213	-0.06	0.924	1.121
	LTE Band 26_Ant 1	15M	QPSK	1	74	Right Tilted	0mm	26865	831.5	22.51	23.50	1.256	-0.03	0.615	0.772
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Tilted	0mm	26865	831.5	22.66	23.50	1.213	-0.07	0.658	0.798
	LTE Band 26_Ant 1	15M	QPSK	1	74	Left Cheek	0mm	26865	831.5	22.51	23.50	1.256	-0.06	0.571	0.717
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Cheek	0mm	26865	831.5	22.66	23.50	1.213	-0.04	0.605	0.734
	LTE Band 26_Ant 1	15M	QPSK	1	74	Left Tilted	0mm	26865	831.5	22.51	23.50	1.256	-0.05	0.499	0.627
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Tilted	0mm	26865	831.5	22.66	23.50	1.213	-0.07	0.531	0.644

Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Right Cheek	0mm	26865	831.5	24.59	25.00	1.099	0.04	0.307	0.337
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Right Cheek	0mm	26865	831.5	23.71	24.00	1.069	-0.01	0.264	0.282
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Right Tilted	0mm	26865	831.5	24.59	25.00	1.099	-0.05	0.228	0.251
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Right Tilted	0mm	26865	831.5	23.71	24.00	1.069	0.01	0.194	0.207
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Left Cheek	0mm	26865	831.5	24.59	25.00	1.099	-0.02	0.390	0.429
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Left Cheek	0mm	26865	831.5	23.71	24.00	1.069	-0.03	0.329	0.352
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Left Tilted	0mm	26865	831.5	24.59	25.00	1.099	-0.01	0.224	0.246
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Left Tilted	0mm	26865	831.5	23.71	24.00	1.069	-0.03	0.187	0.200
	LTE Band 26_Ant 1	15M	QPSK	1	74	Right Cheek	0mm	26865	831.5	22.51	23.00	1.119	-0.07	0.829	0.928
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Cheek	0mm	26865	831.5	22.66	23.00	1.081	-0.04	0.913	0.987
	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	26865	831.5	22.66	23.00	1.081	-0.06	0.924	0.999
	LTE Band 26_Ant 1	15M	QPSK	1	74	Right Tilted	0mm	26865	831.5	22.51	23.00	1.119	-0.03	0.615	0.688
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Tilted	0mm	26865	831.5	22.66	23.00	1.081	-0.07	0.658	0.712
	LTE Band 26_Ant 1	15M	QPSK	1	74	Left Cheek	0mm	26865	831.5	22.51	23.00	1.119	-0.06	0.571	0.639
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Cheek	0mm	26865	831.5	22.66	23.00	1.081	-0.04	0.605	0.654
	LTE Band 26_Ant 1	15M	QPSK	1	74	Left Tilted	0mm	26865	831.5	22.51	23.00	1.119	-0.05	0.499	0.559
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Tilted	0mm	26865	831.5	22.66	23.00	1.081	-0.07	0.531	0.574



Standalone															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	24.40	24.75	1.084	0.05	0.383	0.415
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	23.54	23.75	1.050	0.07	0.317	0.333
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	24.40	24.75	1.084	-0.01	0.168	0.182
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	23.54	23.75	1.050	0.04	0.142	0.149
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	24.40	24.75	1.084	0.13	0.227	0.246
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	23.54	23.75	1.050	0.07	0.188	0.197
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	24.40	24.75	1.084	0.02	0.157	0.170
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	23.54	23.75	1.050	0.06	0.130	0.136
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	132572	1770	19.95	21.00	1.274	0.15	0.577	0.735
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	132572	1770	20.10	21.00	1.230	-0.04	0.621	0.764
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	19.95	21.00	1.274	-0.07	0.807	1.028
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	19.90	21.00	1.288	-0.07	0.681	0.877
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	19.94	21.00	1.276	-0.03	0.585	0.747
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	20.10	21.00	1.230	0.11	0.859	1.057
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	20.08	21.00	1.236	-0.07	0.684	0.845
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	20.09	21.00	1.233	-0.04	0.591	0.729
12	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	132572	1770	20.03	21.00	1.250	-0.06	0.871	1.089
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	132572	1770	19.95	21.00	1.274	0.1	0.236	0.301
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	132572	1770	20.10	21.00	1.230	0.01	0.261	0.321
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	132572	1770	19.95	21.00	1.274	0.16	0.344	0.438
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	132572	1770	20.10	21.00	1.230	0.02	0.377	0.464
Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	132322	1745	24.40	24.75	1.084	0.05	0.383	0.415
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Right Cheek	0mm	132322	1745	23.54	23.75	1.050	0.07	0.317	0.333
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	24.40	24.75	1.084	-0.01	0.168	0.182
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	23.54	23.75	1.050	0.04	0.142	0.149
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	24.40	24.75	1.084	0.13	0.227	0.246
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Left Cheek	0mm	132322	1745	23.54	23.75	1.050	0.07	0.188	0.197
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Left Tilted	0mm	132322	1745	24.40	24.75	1.084	0.02	0.157	0.170
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Left Tilted	0mm	132322	1745	23.54	23.75	1.050	0.06	0.130	0.136
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	132572	1770	19.95	20.50	1.135	0.15	0.577	0.655
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	132572	1770	20.10	20.50	1.096	-0.04	0.621	0.681
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	19.95	20.50	1.135	-0.07	0.807	0.916
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	19.90	20.50	1.148	-0.07	0.681	0.782
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	19.94	20.50	1.138	-0.03	0.585	0.666
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	20.10	20.50	1.096	0.11	0.859	0.942
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	20.08	20.50	1.102	-0.07	0.684	0.753
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	20.09	20.50	1.099	-0.04	0.591	0.650
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	132572	1770	20.03	20.50	1.114	-0.06	0.871	0.971
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	132572	1770	19.95	20.50	1.135	0.1	0.236	0.268
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	132572	1770	20.10	20.50	1.096	0.01	0.261	0.286
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	132572	1770	19.95	20.50	1.135	0.16	0.344	0.390
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	132572	1770	20.10	20.50	1.096	0.02	0.377	0.413





Standalone / Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Right Cheek	0mm	133297	680.5	24.66	25.00	1.081	0.05	0.212	0.229
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Right Cheek	0mm	133297	680.5	23.70	24.00	1.072	-0.02	0.187	0.200
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Right Tilted	0mm	133297	680.5	24.66	25.00	1.081	0.01	0.120	0.130
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Right Tilted	0mm	133297	680.5	23.70	24.00	1.072	0.01	0.111	0.119
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Left Cheek	0mm	133297	680.5	24.66	25.00	1.081	-0.02	0.244	0.264
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Left Cheek	0mm	133297	680.5	23.70	24.00	1.072	-0.01	0.213	0.228
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Left Tilted	0mm	133297	680.5	24.66	25.00	1.081	0.01	0.081	0.088
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Left Tilted	0mm	133297	680.5	23.70	24.00	1.072	-0.02	0.075	0.080
13	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	133297	680.5	24.66	25.00	1.081	-0.02	0.925	1.000
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	133297	680.5	23.70	24.00	1.072	0.02	0.856	0.917
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	133297	680.5	23.69	24.00	1.074	-0.01	0.831	0.892
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	133297	680.5	24.66	25.00	1.081	-0.01	0.839	0.907
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	133297	680.5	23.70	24.00	1.072	-0.11	0.707	0.758
	LTE Band 71_Ant 1	20M	QPSK	100	50	Right Tilted	0mm	133297	680.5	23.69	24.00	1.074	-0.05	0.692	0.743
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	133297	680.5	24.66	25.00	1.081	-0.07	0.560	0.606
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	133297	680.5	23.70	24.00	1.072	-0.04	0.504	0.540
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	133297	680.5	24.66	25.00	1.081	-0.05	0.461	0.499
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	133297	680.5	23.70	24.00	1.072	-0.06	0.441	0.473

<TDD LTE SAR>

Standalone																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.17	0.702	0.709
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	39750	2506	24.61	24.80	1.045	62.9	1.006	0.13	0.370	0.389
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	40185	2549.5	24.52	24.80	1.067	62.9	1.006	0.13	0.422	0.453
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	40620	2593	24.54	24.80	1.062	62.9	1.006	0.14	0.512	0.547
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41055	2636.5	24.52	24.80	1.067	62.9	1.006	0.13	0.504	0.541
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.18	0.444	0.447
PC2		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	26.74	26.80	1.014	42.9	1.009	0.01	0.673	0.689
		LTE Band 41C_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	-0.05	0.522	0.526
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.02	0.170	0.172
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.02	0.136	0.137
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Left Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.09	0.291	0.294
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.05	0.245	0.246
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Left Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.09	0.214	0.216
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.09	0.172	0.173
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.03	0.325	0.328
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.05	0.267	0.269
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Right Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.01	0.211	0.213
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.04	0.170	0.171
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.07	0.466	0.471
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.02	0.374	0.376
		LTE Band 41C_Ant 0c	20M	QPSK	1	0	Left Cheek	0mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.421	0.425
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Left Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.05	0.115	0.116
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.07	0.084	0.085
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	20.51	21.50	1.256	62.9	1.006	0.03	0.790	0.998
	14	LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	20.49	21.50	1.262	62.9	1.006	0.04	0.864	1.097
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	20.44	21.50	1.276	62.9	1.006	0.11	0.824	1.058
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	20.44	21.50	1.276	62.9	1.006	-0.06	0.755	0.969



**FCC SAR TEST REPORT**

**Report No. : FA8N0616-06A**

		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.50	21.50	1.259	62.9	1.006	0.01	0.859	1.088
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	20.83	21.50	1.167	62.9	1.006	0.03	0.799	0.938
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	39750	2506	20.70	21.50	1.202	62.9	1.006	0.07	0.795	0.962
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	40185	2549.5	20.55	21.50	1.245	62.9	1.006	0.17	0.856	1.072
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	40620	2593	20.68	21.50	1.208	62.9	1.006	-0.01	0.855	1.039
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	41055	2636.5	20.64	21.50	1.219	62.9	1.006	0	0.748	0.917
		LTE Band 41_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	41490	2680	20.73	21.50	1.194	62.9	1.006	-0.11	0.702	0.843
PC2		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	22.42	23.50	1.282	42.9	1.009	0.03	0.847	1.096
		LTE Band 41C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.10	21.50	1.380	62.9	1.006	-0.06	0.753	1.046
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41490	2680	20.51	21.50	1.256	62.9	1.006	0.03	0.600	0.758
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	39750	2506	20.49	21.50	1.262	62.9	1.006	0.12	0.711	0.903
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	20.44	21.50	1.276	62.9	1.006	-0.16	0.680	0.873
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	40620	2593	20.44	21.50	1.276	62.9	1.006	-0.01	0.700	0.899
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41055	2636.5	20.50	21.50	1.259	62.9	1.006	0	0.642	0.813
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41490	2680	20.83	21.50	1.167	62.9	1.006	-0.06	0.730	0.857
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	20.83	21.50	1.167	62.9	1.006	0.1	0.679	0.797
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	39750	2506	20.70	21.50	1.202	62.9	1.006	-0.09	0.676	0.817
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	40185	2549.5	20.55	21.50	1.245	62.9	1.006	-0.02	0.668	0.836
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	40620	2593	20.68	21.50	1.208	62.9	1.006	0.08	0.727	0.883
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	41055	2636.5	20.64	21.50	1.219	62.9	1.006	-0.02	0.636	0.780
		LTE Band 41_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	41490	2680	20.73	21.50	1.194	62.9	1.006	-0.13	0.597	0.717
		LTE Band 41_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	41490	2680	20.51	21.50	1.256	62.9	1.006	-0.14	0.140	0.177
		LTE Band 41_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	20.83	21.50	1.167	62.9	1.006	-0.05	0.159	0.187
		LTE Band 41_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	41490	2680	20.51	21.50	1.256	62.9	1.006	0.14	0.119	0.150
		LTE Band 41_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	20.83	21.50	1.167	62.9	1.006	0.11	0.132	0.155
<b>Simultaneous Transmission is active</b>																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.17	0.702	0.709
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	39750	2506	24.61	24.80	1.045	62.9	1.006	0.13	0.370	0.389
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	40185	2549.5	24.52	24.80	1.067	62.9	1.006	0.13	0.422	0.453
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	40620	2593	24.54	24.80	1.062	62.9	1.006	0.14	0.512	0.547
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41055	2636.5	24.52	24.80	1.067	62.9	1.006	0.13	0.504	0.541
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.18	0.444	0.447
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.02	0.170	0.172
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.02	0.136	0.137
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Left Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.09	0.291	0.294
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.05	0.245	0.246
		LTE Band 41_Ant 0b	20M	QPSK	1	99	Left Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.09	0.214	0.216
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.09	0.172	0.173
PC2		LTE Band 41_Ant 0b	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	26.74	26.80	1.014	42.9	1.009	0.01	0.673	0.689
		LTE Band 41C_Ant 0b	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	-0.05	0.522	0.526
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Right Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.03	0.325	0.328
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.05	0.267	0.269
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Right Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.01	0.211	0.213
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.04	0.170	0.171
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Left Cheek	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.07	0.466	0.471
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.02	0.374	0.376
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Left Tilted	0mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.05	0.115	0.116
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.07	0.084	0.085
		LTE Band 41C_Ant 0c	20M	QPSK	1	0	Left Cheek	0mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.421	0.425
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	20.51	21.00	1.119	62.9	1.006	0.03	0.790	0.890
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	20.49	21.00	1.125	62.9	1.006	0.04	0.864	0.977
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	20.44	21.00	1.138	62.9	1.006	0.11	0.824	0.943
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	20.44	21.00	1.138	62.9	1.006	-0.06	0.755	0.864





**FCC SAR TEST REPORT**

Report No. : FA8N0616-06A

		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.50	21.00	1.122	62.9	1.006	0.01	0.859	0.970
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	41490	2680	20.83	21.00	1.040	62.9	1.006	0.03	0.799	0.836
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	39750	2506	20.70	21.00	1.072	62.9	1.006	0.07	0.795	0.857
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	40185	2549.5	20.55	21.00	1.109	62.9	1.006	0.17	0.856	0.955
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	40620	2593	20.68	21.00	1.076	62.9	1.006	-0.01	0.855	0.926
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	41055	2636.5	20.64	21.00	1.086	62.9	1.006	0	0.748	0.818
		LTE Band 41_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	41490	2680	20.73	21.00	1.064	62.9	1.006	-0.11	0.702	0.752
PC2		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	22.42	23.00	1.143	42.9	1.009	0.03	0.847	0.977
		LTE Band 41C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	20.10	21.00	1.230	62.9	1.006	-0.06	0.753	0.932
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41490	2680	20.51	21.00	1.119	62.9	1.006	0.03	0.600	0.676
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	39750	2506	20.49	21.00	1.125	62.9	1.006	0.12	0.711	0.804
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	20.44	21.00	1.138	62.9	1.006	-0.16	0.680	0.778
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	40620	2593	20.44	21.00	1.138	62.9	1.006	-0.01	0.700	0.802
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41055	2636.5	20.50	21.00	1.122	62.9	1.006	0	0.642	0.724
		LTE Band 41_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	41490	2680	20.83	21.00	1.040	62.9	1.006	-0.06	0.730	0.764
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	41490	2680	20.83	21.00	1.040	62.9	1.006	0.1	0.679	0.710
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	39750	2506	20.70	21.00	1.072	62.9	1.006	-0.09	0.676	0.728
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	40185	2549.5	20.55	21.00	1.109	62.9	1.006	-0.02	0.668	0.745
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	40620	2593	20.68	21.00	1.076	62.9	1.006	0.08	0.727	0.787
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	41055	2636.5	20.64	21.00	1.086	62.9	1.006	-0.02	0.636	0.695
		LTE Band 41_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	41490	2680	20.73	21.00	1.064	62.9	1.006	-0.13	0.597	0.639
		LTE Band 41_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	41490	2680	20.51	21.00	1.119	62.9	1.006	-0.14	0.140	0.158
		LTE Band 41_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	41490	2680	20.83	21.00	1.040	62.9	1.006	-0.05	0.159	0.166
		LTE Band 41_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	41490	2680	20.51	21.00	1.119	62.9	1.006	0.14	0.119	0.134
		LTE Band 41_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	41490	2680	20.83	21.00	1.040	62.9	1.006	0.11	0.132	0.138

**<WLAN SAR>**

Standalone / Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2	1	2412	13.85	14	1.035	99.52	1.005	0.12	0.257	0.267
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2	1	2412	13.85	14	1.035	99.52	1.005	0.07	0.083	0.086
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2	1	2412	13.85	14	1.035	99.52	1.005	0.1	0.125	0.130
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2	1	2412	13.85	14	1.035	99.52	1.005	0.13	0.057	0.059
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	11	2462	14.48	14.5	1.005	99.28	1.007	0.13	0.146	0.148
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	11	2462	14.48	14.5	1.005	99.28	1.007	-0.12	0.123	0.124
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	11	2462	14.48	14.5	1.005	99.28	1.007	-0.1	0.541	0.547
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	11	2462	14.48	14.5	1.005	99.28	1.007	0.05	0.376	0.380
15	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2+3(2)	1	2412	15.51	16	1.119	99.2	1.008	-0.18	0.493	0.556
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2+3(3)	1	2412	13.80	15	1.318	99.2	1.008	-0.18	0.131	0.174
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2+3(2)	1	2412	15.51	16	1.119	99.2	1.008	0.15	0.469	0.529
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2+3(3)	1	2412	13.80	15	1.318	99.2	1.008	0.15	0.106	0.141
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(2)	1	2412	15.51	16	1.119	99.2	1.008	0	0.254	0.287
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(3)	1	2412	13.80	15	1.318	99.2	1.008	0	0.418	0.555
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(2)	1	2412	15.51	16	1.119	99.2	1.008	0.13	0.227	0.256
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(3)	1	2412	13.80	15	1.318	99.2	1.008	0.13	0.328	0.436



Standalone / Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2	58	5290	11.97	13.50	1.422	91.67	1.091	0.17	0.268	0.416
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2	58	5290	11.97	13.50	1.422	91.67	1.091	0.14	0.084	0.130
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2	58	5290	11.97	13.50	1.422	91.67	1.091	0.01	0.049	0.076
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2	58	5290	11.97	13.50	1.422	91.67	1.091	-0.12	0.038	0.059
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	58	5290	14.31	14.50	1.045	90.87	1.100	-0.15	0.209	0.240
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	58	5290	14.31	14.50	1.045	90.87	1.100	-0.14	0.127	0.146
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	58	5290	14.31	14.50	1.045	90.87	1.100	0.13	0.072	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	58	5290	14.31	14.50	1.045	90.87	1.100	0.11	0.068	0.078
16	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2+5	58	5290	10.6	12.0	1.380	92.15	1.085	-0.09	0.309	0.463
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2+5	58	5290	10.6	12.0	1.380	92.15	1.085	-0.12	0.177	0.265
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+5	58	5290	10.6	12.0	1.380	92.15	1.085	-0.15	0.121	0.181
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2+5	58	5290	10.6	12.0	1.380	92.15	1.085	0	0.121	0.181

Standalone / Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
17	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2	122	5610	13.91	14.50	1.146	91.67	1.091	-0.08	0.348	0.435
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2	122	5610	13.91	14.50	1.146	91.67	1.091	-0.02	0.120	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2	122	5610	13.91	14.50	1.146	91.67	1.091	0.06	0.059	0.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2	122	5610	13.91	14.50	1.146	91.67	1.091	0.17	0.046	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	122	5610	15.39	15.50	1.026	90.87	1.100	-0.19	0.226	0.255
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	122	5610	15.34	15.50	1.038	90.87	1.100	-0.11	0.188	0.215
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	122	5610	15.34	15.50	1.038	90.87	1.100	0.06	0.135	0.154
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	122	5610	15.34	15.50	1.038	90.87	1.100	0.17	0.121	0.138
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2+5	122	5610	14.30	14.50	1.047	92.15	1.085	-0.17	0.359	0.408
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2+5	122	5610	14.30	14.50	1.047	92.15	1.085	-0.12	0.311	0.353
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+5	122	5610	14.30	14.50	1.047	92.15	1.085	0	0.277	0.315
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2+5	122	5610	14.30	14.50	1.047	92.15	1.085	0.15	0.265	0.301

Standalone / Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
18	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2	155	5775	12.45	14.00	1.429	91.67	1.091	-0.17	0.261	0.407
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2	155	5775	12.45	14.00	1.429	91.67	1.091	0.12	0.059	0.092
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2	155	5775	12.45	14.00	1.429	91.67	1.091	0.01	0.053	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2	155	5775	12.45	14.00	1.429	91.67	1.091	0	0.037	0.058
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	155	5775	15.73	16.00	1.064	90.87	1.100	-0.01	0.233	0.273
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	155	5775	15.73	16.00	1.064	90.87	1.100	-0.16	0.217	0.254
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	155	5775	15.73	16.00	1.064	90.87	1.100	0.11	0.175	0.205
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	155	5775	15.73	16.00	1.064	90.87	1.100	0.1	0.131	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2+5	155	5775	11.04	11.50	1.112	92.15	1.085	-0.11	0.334	0.403
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2+5	155	5775	11.04	11.50	1.112	92.15	1.085	0.01	0.302	0.364
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+5	155	5775	11.04	11.50	1.112	92.15	1.085	0.13	0.276	0.333
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2+5	155	5775	11.04	11.50	1.112	92.15	1.085	0.15	0.227	0.274



<Bluetooth SAR>

Standalone / Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
19	Bluetooth	1Mbps	Right Cheek	0mm	Ant 2	39	2441	11.50	12.5	1.259	76.84	1.301	-0.19	0.079	0.129
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 2	39	2441	11.50	12.5	1.259	76.84	1.301	-0.11	0.023	0.038
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 2	39	2441	11.50	12.5	1.259	76.84	1.301	-0.14	0.034	0.056
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 2	39	2441	11.50	12.5	1.259	76.84	1.301	-0.09	0.007	0.011

15.2 Hotspot SAR

<GSM SAR>

Simultaneous Transmission is active														
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Front	10mm	128	824.2	30.16	30.50	1.081	0.09	0.462	0.500		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Back	10mm	128	824.2	30.16	30.50	1.081	0.01	0.604	0.653		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Side	10mm	128	824.2	30.16	30.50	1.081	0.08	0.770	0.833		
20	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Side	10mm	189	836.4	29.85	30.50	1.161	-0.11	0.770	0.894		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	30.10	30.50	1.096	0.14	0.557	0.611		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Right Side	10mm	128	824.2	30.16	30.50	1.081	-0.09	0.285	0.308		
	GSM850_Ant 0A	GPRS (4 Tx slots)	Bottom Side	10mm	128	824.2	30.16	30.50	1.081	0.12	0.573	0.620		
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	128	824.2	30.16	30.50	1.081	-0.01	0.535	0.579		
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	128	824.2	30.16	30.50	1.081	0.09	0.573	0.620		
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Side	10mm	128	824.2	30.16	30.50	1.081	-0.12	0.153	0.165		
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Side	10mm	128	824.2	30.16	30.50	1.081	-0.06	0.251	0.271		
	GSM850_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	128	824.2	30.16	30.50	1.081	0.08	0.205	0.222		

Simultaneous Transmission is active														
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)		
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Front	10mm	661	1880	26.81	28.00	1.315	-0.02	0.561	0.738		
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Back	10mm	661	1880	26.81	28.00	1.315	0.01	0.495	0.651		
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Left Side	10mm	661	1880	26.81	28.00	1.315	0.14	0.200	0.263		
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Right Side	10mm	661	1880	26.81	28.00	1.315	0.04	0.482	0.634		
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Bottom Side	10mm	661	1880	26.81	28.00	1.315	0.12	0.519	0.683		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Front	10mm	661	1880	26.81	27.50	1.172	0.02	0.407	0.477		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Back	10mm	661	1880	26.81	27.50	1.172	0.1	0.358	0.420		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Left Side	10mm	661	1880	26.81	27.50	1.172	-0.06	0.243	0.285		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Right Side	10mm	661	1880	26.81	27.50	1.172	-0.09	0.008	0.009		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	661	1880	26.81	27.50	1.172	0.11	0.634	0.743		
	GSM1900_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	512	1850.2	26.64	27.50	1.219	0.18	0.685	0.835		
21	GSM1900_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	810	1909.8	26.74	27.50	1.191	0	0.796	0.948		



<WCDMA SAR>

Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 0b	RMC 12.2Kbps	Front	10mm	9538	1907.6	24.53	24.75	1.052	-0.01	0.705	0.742
	WCDMA II_Ant 0b	RMC 12.2Kbps	Back	10mm	9538	1907.6	24.53	24.75	1.052	0.04	0.692	0.728
	WCDMA II_Ant 0b	RMC 12.2Kbps	Left Side	10mm	9538	1907.6	24.53	24.75	1.052	-0.02	0.290	0.305
	WCDMA II_Ant 0b	RMC 12.2Kbps	Right Side	10mm	9538	1907.6	24.53	24.75	1.052	-0.08	0.702	0.738
22	WCDMA II_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	24.53	24.75	1.052	-0.04	0.919	0.967
	WCDMA II_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	9262	1852.4	24.48	24.75	1.064	-0.02	0.766	0.815
	WCDMA II_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	9400	1880	24.52	24.75	1.054	-0.02	0.846	0.892
	WCDMA II_Ant 1	RMC 12.2Kbps	Front	10mm	9538	1907.6	22.99	23.50	1.125	0.01	0.471	0.530
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	9538	1907.6	22.99	23.50	1.125	0.05	0.465	0.523
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Side	10mm	9538	1907.6	22.99	23.50	1.125	0.01	0.314	0.353
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Side	10mm	9538	1907.6	22.99	23.50	1.125	0.1	0.009	0.010
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	22.99	23.50	1.125	0.14	0.795	0.894
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	22.89	23.50	1.151	0.18	0.698	0.803
	WCDMA II_Ant 1	RMC 12.2Kbps	Top Side	10mm	9400	1880	22.96	23.50	1.132	0.12	0.688	0.779

Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Front	10mm	1312	1712.4	24.53	24.75	1.052	0.04	0.684	0.720
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Back	10mm	1312	1712.4	24.53	24.75	1.052	-0.09	0.674	0.709
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	24.53	24.75	1.052	0.09	0.171	0.180
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	24.53	24.75	1.052	0.01	0.418	0.440
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	24.53	24.75	1.052	0.03	0.664	0.699
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Front	10mm	1413	1732.6	22.70	23.00	1.072	0.07	0.305	0.327
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Back	10mm	1413	1732.6	22.70	23.00	1.072	-0.16	0.511	0.548
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Left Side	10mm	1413	1732.6	22.70	23.00	1.072	0.11	0.220	0.236
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Right Side	10mm	1413	1732.6	22.70	23.00	1.072	0.07	0.047	0.050
23	WCDMA IV_Ant 0c	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	22.70	23.00	1.072	0.15	0.901	0.965
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	22.69	23.00	1.074	0.12	0.863	0.927
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	22.68	23.00	1.076	0.18	0.787	0.847
	WCDMA IV_Ant 1	RMC 12.2Kbps	Front	10mm	1312	1712.4	24.53	24.75	1.052	-0.01	0.239	0.251
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	1312	1712.4	24.53	24.75	1.052	-0.07	0.295	0.310
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	24.53	24.75	1.052	-0.01	0.136	0.143
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	24.53	24.75	1.052	0.03	0.006	0.007
	WCDMA IV_Ant 1	RMC 12.2Kbps	Top Side	10mm	1312	1712.4	24.53	24.75	1.052	0.09	0.414	0.436

Simultaneous Transmission is active												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_Ant 0A	RMC 12.2Kbps	Front	10mm	4132	831.5	24.78	25.00	1.052	0.14	0.463	0.487
	WCDMA V_Ant 0A	RMC 12.2Kbps	Back	10mm	4132	831.5	24.78	25.00	1.052	-0.03	0.618	0.650
24	WCDMA V_Ant 0A	RMC 12.2Kbps	Left Side	10mm	4132	826.4	24.78	25.00	1.052	-0.13	0.677	0.712
	WCDMA V_Ant 0A	RMC 12.2Kbps	Right Side	10mm	4132	826.4	24.78	25.00	1.052	0	0.304	0.320
	WCDMA V_Ant 0A	RMC 12.2Kbps	Bottom Side	10mm	4132	826.4	24.78	25.00	1.052	0.08	0.488	0.513
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	4132	826.4	24.78	25.00	1.052	-0.08	0.548	0.576
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4132	826.4	24.78	25.00	1.052	-0.02	0.505	0.531
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Side	10mm	4132	826.4	24.78	25.00	1.052	-0.09	0.192	0.202
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Side	10mm	4132	826.4	24.78	25.00	1.052	-0.07	0.263	0.277
	WCDMA V_Ant 1	RMC 12.2Kbps	Top Side	10mm	4132	826.4	24.78	25.00	1.052	-0.01	0.212	0.223



<FDD LTE SAR>

Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Front	10mm	20175	1732.5	24.26	24.75	1.119	0.04	0.523	0.585
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Front	10mm	20175	1732.5	23.34	23.75	1.099	0.01	0.427	0.469
25	LTE Band 4_Ant 0c	20M	QPSK	1	0	Back	10mm	20175	1732.5	24.26	24.75	1.119	-0.06	0.543	0.608
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Back	10mm	20175	1732.5	23.34	23.75	1.099	-0.07	0.441	0.485
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Left Side	10mm	20175	1732.5	24.26	24.75	1.119	-0.02	0.533	0.597
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Left Side	10mm	20175	1732.5	23.34	23.75	1.099	0	0.444	0.488
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Right Side	10mm	20175	1732.5	24.26	24.75	1.119	0.01	0.072	0.081
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Right Side	10mm	20175	1732.5	23.34	23.75	1.099	0.05	0.054	0.059
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Bottom Side	10mm	20175	1732.5	24.26	24.75	1.119	0.07	0.091	0.102
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Bottom Side	10mm	20175	1732.5	23.34	23.75	1.099	0.08	0.077	0.085

Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Front	10mm	20850	2510	17.30	17.50	1.047	0.08	0.403	0.422
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Front	10mm	20850	2510	17.39	17.50	1.026	-0.05	0.395	0.405
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	20850	2510	17.30	17.50	1.047	-0.14	0.891	0.933
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	21100	2535	17.29	17.50	1.050	-0.14	0.751	0.788
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	21350	2560	17.29	17.50	1.050	-0.17	0.745	0.782
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	20850	2510	17.39	17.50	1.026	-0.11	0.894	0.917
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	21100	2535	17.38	17.50	1.028	-0.12	0.754	0.775
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	21350	2560	17.38	17.50	1.028	-0.05	0.742	0.763
	LTE Band 7_Ant 0b	20M	QPSK	100	0	Back	10mm	20850	2510	17.45	17.50	1.012	-0.1	0.848	0.858
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Left Side	10mm	20850	2510	17.30	17.50	1.047	0.09	0.014	0.015
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Left Side	10mm	20850	2510	17.39	17.50	1.026	-0.05	0.013	0.013
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Right Side	10mm	20850	2510	17.30	17.50	1.047	0.14	0.625	0.654
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Right Side	10mm	20850	2510	17.39	17.50	1.026	0.11	0.606	0.622
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	20850	2510	17.30	17.50	1.047	0.05	0.502	0.526
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Bottom Side	10mm	20850	2510	17.39	17.50	1.026	-0.06	0.495	0.508
	LTE Band 7C_Ant 0b	20M	QPSK	1	0	Back	10mm	21100	2535	17.40	17.50	1.023	-0.11	0.831	0.850
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	21350	2560	21.62	22.00	1.091	0.16	0.519	0.566
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	21350	2560	21.70	22.00	1.072	0.11	0.532	0.570
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	21350	2560	21.62	22.00	1.091	-0.15	0.608	0.664
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	21350	2560	21.70	22.00	1.072	0.02	0.622	0.666
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Side	10mm	21350	2560	21.62	22.00	1.091	0.15	0.845	0.922
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Side	10mm	20850	2510	21.58	22.00	1.102	0.09	0.801	0.882
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Left Side	10mm	21100	2535	21.57	22.00	1.104	0.12	0.760	0.839
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Side	10mm	21350	2560	21.70	22.00	1.072	0.16	0.868	0.930
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Side	10mm	20850	2510	21.69	22.00	1.074	0.15	0.823	0.884
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Left Side	10mm	21100	2535	21.68	22.00	1.076	-0.02	0.789	0.849
26	LTE Band 7_Ant 0c	20M	QPSK	100	0	Left Side	10mm	21350	2560	21.68	22.00	1.076	0.14	0.880	0.947
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Right Side	10mm	21350	2560	21.62	22.00	1.091	0.06	0.043	0.047
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Right Side	10mm	21350	2560	21.70	22.00	1.072	0.11	0.046	0.049
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Bottom Side	10mm	21350	2560	21.62	22.00	1.091	0.1	0.259	0.283
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Bottom Side	10mm	21350	2560	21.70	22.00	1.072	0.06	0.279	0.299
	LTE Band 7C_Ant 0c	20M	QPSK	1	0	Left Side	10mm	21100	2535	21.33	22.00	1.167	0.12	0.771	0.900
	LTE Band 7_Ant 1	20M	QPSK	1	99	Front	10mm	20850	2510	24.48	24.80	1.076	-0.03	0.469	0.505
	LTE Band 7_Ant 1	20M	QPSK	50	50	Front	10mm	20850	2510	23.55	23.80	1.059	-0.07	0.388	0.411
	LTE Band 7_Ant 1	20M	QPSK	1	99	Back	10mm	20850	2510	24.48	24.80	1.076	-0.01	0.468	0.504
	LTE Band 7_Ant 1	20M	QPSK	50	50	Back	10mm	20850	2510	23.55	23.80	1.059	-0.01	0.396	0.419
	LTE Band 7_Ant 1	20M	QPSK	1	99	Left Side	10mm	20850	2510	24.48	24.80	1.076	-0.01	0.293	0.315
	LTE Band 7_Ant 1	20M	QPSK	50	50	Left Side	10mm	20850	2510	23.55	23.80	1.059	-0.06	0.271	0.287
	LTE Band 7_Ant 1	20M	QPSK	1	99	Right Side	10mm	20850	2510	24.48	24.80	1.076	0.01	0.029	0.031
	LTE Band 7_Ant 1	20M	QPSK	50	50	Right Side	10mm	20850	2510	23.55	23.80	1.059	0.07	0.022	0.023
	LTE Band 7_Ant 1	20M	QPSK	1	99	Top Side	10mm	20850	2510	24.48	24.80	1.076	-0.04	0.332	0.357
	LTE Band 7_Ant 1	20M	QPSK	50	50	Top Side	10mm	20850	2510	23.55	23.80	1.059	-0.03	0.288	0.305
	LTE Band 7C_Ant 1	20M	QPSK	1	0	Front	10mm	21100	2535	24.45	24.80	1.084	-0.03	0.401	0.435





Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Front	10mm	23095	707.5	24.58	25.00	1.102	-0.03	0.242	0.267
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Front	10mm	23095	707.5	23.71	24.00	1.069	-0.05	0.199	0.213
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Back	10mm	23095	707.5	24.58	25.00	1.102	-0.01	0.304	0.335
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Back	10mm	23095	707.5	23.71	24.00	1.069	-0.07	0.249	0.266
27	LTE Band 12_Ant 0A	10M	QPSK	1	25	Left Side	10mm	23095	707.5	24.58	25.00	1.102	-0.04	0.363	0.400
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Left Side	10mm	23095	707.5	23.71	24.00	1.069	-0.01	0.299	0.320
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Right Side	10mm	23095	707.5	24.58	25.00	1.102	0.01	0.201	0.221
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Right Side	10mm	23095	707.5	23.71	24.00	1.069	0	0.165	0.176
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Bottom Side	10mm	23095	707.5	24.58	25.00	1.102	0.04	0.253	0.279
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Bottom Side	10mm	23095	707.5	23.71	24.00	1.069	-0.06	0.207	0.221
	LTE Band 12_Ant 1	10M	QPSK	1	25	Front	10mm	23095	707.5	24.58	25.00	1.102	-0.02	0.322	0.355
	LTE Band 12_Ant 1	10M	QPSK	25	12	Front	10mm	23095	707.5	23.71	24.00	1.069	-0.05	0.263	0.281
	LTE Band 12_Ant 1	10M	QPSK	25	12	Back	10mm	23095	707.5	24.58	25.00	1.102	-0.1	0.312	0.344
	LTE Band 12_Ant 1	10M	QPSK	25	12	Back	10mm	23095	707.5	23.71	24.00	1.069	-0.08	0.257	0.275
	LTE Band 12_Ant 1	10M	QPSK	1	25	Left Side	10mm	23095	707.5	24.58	25.00	1.102	-0.09	0.175	0.193
	LTE Band 12_Ant 1	10M	QPSK	25	12	Left Side	10mm	23095	707.5	23.71	24.00	1.069	-0.02	0.141	0.151
	LTE Band 12_Ant 1	10M	QPSK	1	25	Right Side	10mm	23095	707.5	24.58	25.00	1.102	-0.08	0.116	0.128
	LTE Band 12_Ant 1	10M	QPSK	25	12	Right Side	10mm	23095	707.5	23.71	24.00	1.069	0.02	0.098	0.105
	LTE Band 12_Ant 1	10M	QPSK	1	25	Top Side	10mm	23095	707.5	24.58	25.00	1.102	0.06	0.109	0.120
	LTE Band 12_Ant 1	10M	QPSK	25	12	Top Side	10mm	23095	707.5	23.71	24.00	1.069	0.05	0.089	0.096

Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Front	10mm	23230	782	24.53	25.00	1.114	0.01	0.354	0.394
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Front	10mm	23230	782	23.67	24.00	1.079	-0.02	0.304	0.328
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Back	10mm	23230	782	24.53	25.00	1.114	0	0.379	0.422
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Back	10mm	23230	782	23.67	24.00	1.079	-0.03	0.317	0.342
28	LTE Band 13_Ant 0A	10M	QPSK	1	0	Left Side	10mm	23230	782	24.53	25.00	1.114	0	0.572	0.637
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Left Side	10mm	23230	782	23.67	24.00	1.079	-0.02	0.500	0.539
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Right Side	10mm	23230	782	24.53	25.00	1.114	-0.07	0.355	0.396
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Right Side	10mm	23230	782	23.67	24.00	1.079	-0.01	0.307	0.331
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Bottom Side	10mm	23230	782	24.53	25.00	1.114	-0.03	0.332	0.370
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Bottom Side	10mm	23230	782	23.67	24.00	1.079	0.09	0.279	0.301
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	23230	782	24.53	25.00	1.114	0.08	0.420	0.468
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	23230	782	23.67	24.00	1.079	0.05	0.349	0.377
	LTE Band 13_Ant 1	10M	QPSK	1	25	Back	10mm	23230	782	24.53	25.00	1.114	-0.01	0.404	0.450
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	23230	782	23.67	24.00	1.079	0.01	0.333	0.359
	LTE Band 13_Ant 1	10M	QPSK	1	25	Left Side	10mm	23230	782	24.53	25.00	1.114	-0.04	0.174	0.194
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Side	10mm	23230	782	23.67	24.00	1.079	0.05	0.145	0.156
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Side	10mm	23230	782	24.53	25.00	1.114	-0.02	0.195	0.217
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Side	10mm	23230	782	23.67	24.00	1.079	-0.05	0.159	0.172
	LTE Band 13_Ant 1	10M	QPSK	1	0	Top Side	10mm	23230	782	24.53	25.00	1.114	0.02	0.154	0.172
	LTE Band 13_Ant 1	10M	QPSK	25	0	Top Side	10mm	23230	782	23.67	24.00	1.079	0.05	0.130	0.140



Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Front	10mm	26590	1905	22.33	23.00	1.167	0.01	0.423	0.494
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Front	10mm	26590	1905	22.41	23.00	1.146	-0.08	0.436	0.499
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Back	10mm	26590	1905	22.33	23.00	1.167	-0.07	0.520	0.607
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Back	10mm	26590	1905	22.41	23.00	1.146	0.04	0.540	0.619
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Left Side	10mm	26590	1905	22.33	23.00	1.167	0.03	0.108	0.126
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Left Side	10mm	26590	1905	22.41	23.00	1.146	-0.01	0.120	0.137
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Right Side	10mm	26590	1905	22.33	23.00	1.167	0.05	0.492	0.574
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Right Side	10mm	26590	1905	22.41	23.00	1.146	0.1	0.505	0.578
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	26590	1905	22.33	23.00	1.167	0.05	0.775	0.904
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	26140	1860	22.27	23.00	1.183	0.03	0.715	0.846
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	26340	1880	22.32	23.00	1.169	0.02	0.722	0.844
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Bottom Side	10mm	26590	1905	22.41	23.00	1.146	0	0.809	0.927
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Bottom Side	10mm	26140	1860	22.27	23.00	1.183	0.01	0.725	0.858
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Bottom Side	10mm	26340	1880	22.36	23.00	1.159	0.01	0.737	0.854
	LTE Band 25_Ant 0b	20M	QPSK	100	0	Bottom Side	10mm	26590	1905	22.38	23.00	1.153	0.03	0.800	0.923
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	26340	1880	23.27	23.50	1.054	-0.01	0.419	0.442
	LTE Band 25_Ant 1	20M	QPSK	50	50	Front	10mm	26340	1880	23.28	23.50	1.052	-0.01	0.425	0.447
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	26340	1880	23.27	23.50	1.054	-0.05	0.396	0.418
	LTE Band 25_Ant 1	20M	QPSK	50	50	Back	10mm	26340	1880	23.28	23.50	1.052	-0.03	0.401	0.422
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Side	10mm	26340	1880	23.27	23.50	1.054	-0.01	0.285	0.301
	LTE Band 25_Ant 1	20M	QPSK	50	50	Left Side	10mm	26340	1880	23.28	23.50	1.052	0	0.291	0.306
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Side	10mm	26340	1880	23.27	23.50	1.054	0.15	0.008	0.008
	LTE Band 25_Ant 1	20M	QPSK	50	50	Right Side	10mm	26340	1880	23.28	23.50	1.052	-0.16	0.008	0.008
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26340	1880	23.27	23.50	1.054	0.11	0.758	0.799
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26140	1860	23.19	23.50	1.074	0.17	0.789	0.847
29	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Side	10mm	26590	1905	23.19	23.50	1.074	0.17	0.911	0.978
	LTE Band 25_Ant 1	20M	QPSK	50	50	Top Side	10mm	26340	1880	23.28	23.50	1.052	0.01	0.769	0.809
	LTE Band 25_Ant 1	20M	QPSK	50	50	Top Side	10mm	26140	1860	23.21	23.50	1.069	0.06	0.795	0.850
	LTE Band 25_Ant 1	20M	QPSK	50	50	Top Side	10mm	26590	1905	23.25	23.50	1.059	0.14	0.917	0.971
	LTE Band 25_Ant 1	20M	QPSK	100	0	Top Side	10mm	26340	1880	23.25	23.50	1.059	-0.05	0.769	0.815



Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Front	10mm	26865	831.5	24.59	25.00	1.099	0	0.451	0.496
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Front	10mm	26865	831.5	23.71	24.00	1.069	0	0.379	0.405
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Back	10mm	26865	831.5	24.59	25.00	1.099	-0.06	0.552	0.607
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Back	10mm	26865	831.5	23.71	24.00	1.069	-0.06	0.473	0.506
30	LTE Band 26_Ant 0A	15M	QPSK	1	74	Left Side	10mm	26865	831.5	24.59	25.00	1.099	0.02	0.633	0.696
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Left Side	10mm	26865	831.5	23.71	24.00	1.069	0.02	0.543	0.580
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Right Side	10mm	26865	831.5	24.59	25.00	1.099	-0.05	0.226	0.248
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Right Side	10mm	26865	831.5	23.71	24.00	1.069	0.01	0.206	0.220
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Bottom Side	10mm	26865	831.5	24.59	25.00	1.099	0.02	0.485	0.533
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Bottom Side	10mm	26865	831.5	23.71	24.00	1.069	0.01	0.392	0.419
	LTE Band 26_Ant 1	15M	QPSK	1	74	Front	10mm	26865	831.5	24.59	25.00	1.099	0.01	0.433	0.476
	LTE Band 26_Ant 1	15M	QPSK	36	20	Front	10mm	26865	831.5	23.71	24.00	1.069	-0.05	0.370	0.396
	LTE Band 26_Ant 1	15M	QPSK	1	74	Back	10mm	26865	831.5	24.59	25.00	1.099	-0.03	0.398	0.437
	LTE Band 26_Ant 1	15M	QPSK	36	20	Back	10mm	26865	831.5	23.71	24.00	1.069	-0.02	0.345	0.369
	LTE Band 26_Ant 1	15M	QPSK	1	74	Left Side	10mm	26865	831.5	24.59	25.00	1.099	-0.06	0.175	0.192
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Side	10mm	26865	831.5	23.71	24.00	1.069	0.03	0.153	0.164
	LTE Band 26_Ant 1	15M	QPSK	1	74	Right Side	10mm	26865	831.5	24.59	25.00	1.099	0.06	0.214	0.235
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Side	10mm	26865	831.5	23.71	24.00	1.069	-0.07	0.196	0.210
	LTE Band 26_Ant 1	15M	QPSK	1	74	Top Side	10mm	26865	831.5	24.59	25.00	1.099	0.06	0.188	0.207
	LTE Band 26_Ant 1	15M	QPSK	36	20	Top Side	10mm	26865	831.5	23.71	24.00	1.069	0.02	0.152	0.162

Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Front	10mm	132322	1745	24.40	24.75	1.084	0.04	0.650	0.705
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Front	10mm	132322	1745	23.54	23.75	1.050	0.03	0.544	0.571
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Back	10mm	132322	1745	24.40	24.75	1.084	-0.03	0.719	0.779
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Back	10mm	132322	1745	23.54	23.75	1.050	0	0.617	0.648
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Left Side	10mm	132322	1745	24.40	24.75	1.084	0.02	0.111	0.120
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Left Side	10mm	132322	1745	23.54	23.75	1.050	-0.03	0.094	0.099
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Right Side	10mm	132322	1745	24.40	24.75	1.084	-0.14	0.510	0.553
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Right Side	10mm	132322	1745	23.54	23.75	1.050	-0.07	0.427	0.448
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	24.40	24.75	1.084	0.06	0.810	0.878
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	24.37	24.75	1.091	0.03	0.822	0.897
31	LTE Band 66_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	24.38	24.75	1.089	0.07	0.872	0.950
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	23.54	23.75	1.050	0.01	0.677	0.711
	LTE Band 66_Ant 0b	20M	QPSK	100	0	Bottom Side	10mm	132322	1745	23.47	23.75	1.067	0.04	0.677	0.722
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	132322	1745	24.40	24.75	1.084	-0.07	0.236	0.256
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	132322	1745	23.54	23.75	1.050	-0.03	0.188	0.197
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	132322	1745	24.40	24.75	1.084	-0.09	0.347	0.376
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	132322	1745	23.54	23.75	1.050	-0.09	0.234	0.246
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Side	10mm	132322	1745	24.40	24.75	1.084	-0.03	0.142	0.154
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Side	10mm	132322	1745	23.54	23.75	1.050	-0.11	0.115	0.121
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Side	10mm	132322	1745	24.40	24.75	1.084	0.01	0.008	0.009
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Side	10mm	132322	1745	23.54	23.75	1.050	0.06	0.007	0.007
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	132322	1745	24.40	24.75	1.084	0.02	0.545	0.591
	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	132322	1745	23.54	23.75	1.050	0.03	0.449	0.471





Simultaneous Transmission is active															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Front	10mm	133297	680.5	24.66	25.00	1.081	-0.02	0.278	0.301
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Front	10mm	133297	680.5	23.70	24.00	1.072	-0.02	0.264	0.283
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Back	10mm	133297	680.5	24.66	25.00	1.081	-0.08	0.298	0.322
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Back	10mm	133297	680.5	23.70	24.00	1.072	0	0.280	0.300
32	LTE Band 71_Ant 0A	20M	QPSK	1	0	Left Side	10mm	133297	680.5	24.66	25.00	1.081	-0.03	0.308	0.333
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Left Side	10mm	133297	680.5	23.70	24.00	1.072	0.01	0.290	0.311
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Right Side	10mm	133297	680.5	24.66	25.00	1.081	-0.02	0.164	0.177
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Right Side	10mm	133297	680.5	23.70	24.00	1.072	0.01	0.164	0.176
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Bottom Side	10mm	133297	680.5	24.66	25.00	1.081	0.03	0.185	0.200
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Bottom Side	10mm	133297	680.5	23.70	24.00	1.072	0.03	0.153	0.164
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	133297	680.5	24.66	25.00	1.081	0.03	0.258	0.279
	LTE Band 71_Ant 1	20M	QPSK	50	50	Front	10mm	133297	680.5	23.70	24.00	1.072	-0.03	0.236	0.253
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	133297	680.5	24.66	25.00	1.081	-0.03	0.255	0.276
	LTE Band 71_Ant 1	20M	QPSK	50	50	Back	10mm	133297	680.5	23.70	24.00	1.072	-0.06	0.249	0.267
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Side	10mm	133297	680.5	24.66	25.00	1.081	-0.12	0.153	0.165
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left Side	10mm	133297	680.5	23.70	24.00	1.072	-0.12	0.144	0.154
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Side	10mm	133297	680.5	24.66	25.00	1.081	-0.09	0.068	0.074
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right Side	10mm	133297	680.5	23.70	24.00	1.072	0.09	0.061	0.065
	LTE Band 71_Ant 1	20M	QPSK	1	0	Top Side	10mm	133297	680.5	24.66	25.00	1.081	0.05	0.094	0.102
	LTE Band 71_Ant 1	20M	QPSK	50	50	Top Side	10mm	133297	680.5	23.70	24.00	1.072	0.02	0.085	0.091

<TDD LTE SAR>

Simultaneous Transmission is active																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Front	10mm	41490	2680	19.61	20.00	1.094	62.9	1.006	0.07	0.277	0.305
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Front	10mm	41490	2680	19.85	20.00	1.035	62.9	1.006	0.06	0.292	0.304
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	41490	2680	19.61	20.00	1.094	62.9	1.006	-0.03	0.561	0.617
	33	LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	39750	2506	19.57	20.00	1.104	62.9	1.006	-0.15	0.812	0.902
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	40185	2549.5	19.50	20.00	1.122	62.9	1.006	-0.11	0.675	0.762
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	40620	2593	19.54	20.00	1.112	62.9	1.006	0.12	0.722	0.807
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	41055	2636.5	19.52	20.00	1.117	62.9	1.006	-0.15	0.648	0.728
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	41490	2680	19.85	20.00	1.035	62.9	1.006	-0.11	0.580	0.604
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	39750	2506	19.75	20.00	1.059	62.9	1.006	-0.15	0.781	0.832
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	40185	2549.5	19.58	20.00	1.102	62.9	1.006	-0.13	0.694	0.769
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	40620	2593	19.75	20.00	1.059	62.9	1.006	-0.1	0.743	0.792
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	41055	2636.5	19.70	20.00	1.072	62.9	1.006	-0.17	0.661	0.713
		LTE Band 41_Ant 0b	20M	QPSK	100	0	Back	10mm	39750	2506	19.80	20.00	1.047	62.9	1.006	0.04	0.774	0.815
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Left Side	10mm	41490	2680	19.61	20.00	1.094	62.9	1.006	-0.05	0.006	0.007
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Left Side	10mm	41490	2680	19.85	20.00	1.035	62.9	1.006	0.07	0.007	0.007
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Right Side	10mm	41490	2680	19.61	20.00	1.094	62.9	1.006	0.09	0.531	0.584
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Right Side	10mm	41490	2680	19.85	20.00	1.035	62.9	1.006	0.12	0.558	0.581
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Bottom Side	10mm	41490	2680	19.61	20.00	1.094	62.9	1.006	0.11	0.269	0.296
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Bottom Side	10mm	41490	2680	19.85	20.00	1.035	62.9	1.006	0.14	0.289	0.301
PC2		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	39750	2506	21.6	22.00	1.096	42.9	1.009	-0.14	0.812	0.898
		LTE Band 41C_Ant 0b	20M	QPSK	1	0	Back	10mm	41055	2636.5	19.74	20.00	1.062	62.9	1.006	0.01	0.799	0.853
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Front	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.03	0.339	0.343
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Front	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.04	0.269	0.271
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Back	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.07	0.382	0.386
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Back	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.03	0.303	0.305
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Left Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.06	0.580	0.586



**FCC SAR TEST REPORT**

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		LTE Band 41_Ant 0c	20M	QPSK	50	50	Left Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.1	0.472	0.475
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Right Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.13	0.029	0.029
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Right Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.12	0.021	0.021
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Bottom Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.09	0.248	0.251
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Bottom Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.08	0.208	0.209
		LTE Band 41C_Ant 0c	20M	QPSK	1	0	Left Side	10mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.541	0.546
		LTE Band 41_Ant 1	20M	QPSK	1	99	Front	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0.11	0.208	0.210
		LTE Band 41_Ant 1	20M	QPSK	50	50	Front	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.06	0.169	0.170
		LTE Band 41_Ant 1	20M	QPSK	1	99	Back	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.15	0.179	0.181
		LTE Band 41_Ant 1	20M	QPSK	50	50	Back	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.12	0.144	0.145
		LTE Band 41_Ant 1	20M	QPSK	1	99	Left Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.1	0.253	0.256
		LTE Band 41_Ant 1	20M	QPSK	50	50	Left Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.01	0.203	0.204
		LTE Band 41_Ant 1	20M	QPSK	1	99	Right Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.01	0.015	0.015
		LTE Band 41_Ant 1	20M	QPSK	50	50	Right Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.03	0.012	0.012
		LTE Band 41_Ant 1	20M	QPSK	1	99	Top Side	10mm	41490	2680	24.78	24.80	1.005	62.9	1.006	0	0.180	0.182
		LTE Band 41_Ant 1	20M	QPSK	50	50	Top Side	10mm	41490	2680	23.80	23.80	1.000	62.9	1.006	0.13	0.150	0.151
PC2		LTE Band 41_Ant 1	20M	QPSK	1	99	Left Side	10mm	41490	2680	26.74	26.80	1.014	42.9	1.009	-0.04	0.249	0.255
		LTE Band 41C_Ant 1	20M	QPSK	1	0	Left Side	10mm	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.06	0.241	0.243

**<WLAN SAR>**

Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	0.06	0.113	0.116
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	-0.15	0.119	0.122
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	-0.19	0.209	0.214
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	-0.11	0.010	0.012
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	0.04	0.318	0.335
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	-0.1	0.419	0.441
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	-0.19	0.505	0.531
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	0.16	0.196	0.206
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 2+3(2)	11	2462	20.4	20.5	1.023	99.2	1.008	0.03	0.531	0.548
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 2+3(3)	11	2462	19.4	19.5	1.023	99.2	1.008	0.03	0.331	0.341
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 2+3(2)	11	2462	20.4	20.5	1.023	99.2	1.008	-0.06	0.561	0.579
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 2+3(3)	11	2462	19.4	19.5	1.023	99.2	1.008	-0.06	0.385	0.397
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 2+3	11	2462	20.4	20.5	1.023	99.2	1.008	-0.08	0.509	0.525
34	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 2+3	11	2462	20.4	20.5	1.023	99.2	1.008	-0.01	0.579	0.597
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 2+3	11	2462	20.4	20.5	1.023	99.2	1.008	0.06	0.295	0.304



Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 2	46	5230	15.13	15.5	1.089	95.45	1.048	0.14	0.052	0.059
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 2	46	5230	15.13	15.5	1.089	95.45	1.048	0.06	0.078	0.089
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 2	46	5230	15.13	15.5	1.089	95.45	1.048	-0.11	0.269	0.307
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 2	46	5230	15.13	15.5	1.089	95.45	1.048	0.12	0.016	0.018
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	17.74	18	1.062	95.45	1.048	-0.08	0.037	0.041
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	17.74	18	1.062	95.45	1.048	0.12	0.189	0.210
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 5	46	5230	17.74	18	1.062	95.45	1.048	0.13	0.052	0.058
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	46	5230	17.74	18	1.062	95.45	1.048	0.01	0.073	0.081
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 2+5	46	5230	14.55	15.0	1.109	95.45	1.048	-0.17	0.124	0.144
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 2+5	46	5230	14.55	15.0	1.109	95.45	1.048	0.03	0.233	0.271
35	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 2+5	46	5230	14.55	15.0	1.109	95.45	1.048	-0.14	0.276	0.321
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 2+5	46	5230	14.55	15.0	1.109	95.45	1.048	0.08	0.058	0.067

Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	0.06	0.097	0.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	-0.19	0.124	0.148
36	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	-0.13	0.272	0.325
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	0.19	0.059	0.070
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	0.17	0.061	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	-0.1	0.203	0.242
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	0	0.053	0.063
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	0	0.085	0.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.07	0.157	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.15	0.272	0.301
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.11	0.263	0.291
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.16	0.071	0.078

<Bluetooth SAR>

Simultaneous Transmission is active															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	0.12	0.07	0.098
	Bluetooth	1Mbps	Back	10mm	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	0.11	0.087	0.122
37	Bluetooth	1Mbps	Left Side	10mm	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	-0.17	0.088	0.124
	Bluetooth	1Mbps	Top Side	10mm	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	0.12	0.029	0.041



**15.3 Body Worn Accessory SAR**

**<GSM SAR>**

Standalone / Simultaneous Transmission is active													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0A	GPRS (4 Tx slots)	Front	10mm	-	128	824.2	30.16	30.50	1.081	0.09	0.462	0.500
38	GSM850_Ant 0A	GPRS (4 Tx slots)	Back	10mm	-	128	824.2	30.16	30.50	1.081	0.01	0.604	0.653
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	-	128	824.2	30.16	30.50	1.081	-0.01	0.535	0.579
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	-	128	824.2	30.16	30.50	1.081	0.09	0.573	0.620

Standalone / Simultaneous Transmission is active													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
39	GSM1900_Ant 0b	GPRS (4 Tx slots)	Front	10mm	-	661	1880	26.81	28.00	1.315	-0.02	0.561	0.738
	GSM1900_Ant 0b	GPRS (4 Tx slots)	Back	10mm	-	661	1880	26.81	28.00	1.315	0.01	0.495	0.651
	GSM1900_Ant 1	GPRS (4 Tx slots)	Front	10mm	-	661	1880	26.81	28.00	1.315	-0.08	0.331	0.435
	GSM1900_Ant 1	GPRS (4 Tx slots)	Back	10mm	-	661	1880	26.81	28.00	1.315	-0.02	0.452	0.594

**<WCDMA SAR>**

Standalone / Simultaneous Transmission is active													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
40	WCDMA II_Ant 0b	RMC 12.2Kbps	Front	10mm	-	9538	1907.6	24.53	24.75	1.052	-0.01	0.705	0.742
	WCDMA II_Ant 0b	RMC 12.2Kbps	Back	10mm	-	9538	1907.6	24.53	24.75	1.052	0.04	0.692	0.728
	WCDMA II_Ant 1	RMC 12.2Kbps	Front	10mm	-	9538	1907.6	24.53	24.75	1.052	-0.09	0.547	0.575
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	-	9538	1907.6	24.53	24.75	1.052	-0.1	0.688	0.724

Standalone / Simultaneous Transmission is active													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	24.53	24.75	1.052	0.04	0.684	0.720
	WCDMA IV_Ant 0b	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	24.53	24.75	1.052	-0.09	0.674	0.709
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	24.53	24.75	1.052	0.09	0.485	0.510
41	WCDMA IV_Ant 0c	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	24.53	24.75	1.052	-0.09	0.869	0.914
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Back	10mm	-	1413	1732.6	24.52	24.75	1.054	-0.08	0.811	0.855
	WCDMA IV_Ant 0c	RMC 12.2Kbps	Back	10mm	-	1513	1752.6	24.49	24.75	1.062	-0.13	0.753	0.799
	WCDMA IV_Ant 1	RMC 12.2Kbps	Front	10mm	-	1312	1712.4	24.53	24.75	1.052	-0.01	0.239	0.251
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	-	1312	1712.4	24.53	24.75	1.052	-0.07	0.295	0.310

Standalone / Simultaneous Transmission is active													
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_Ant 0A	RMC 12.2Kbps	Front	10mm	-	4132	831.5	24.78	25.00	1.052	0.14	0.463	0.487
42	WCDMA V_Ant 0A	RMC 12.2Kbps	Back	10mm	-	4132	831.5	24.78	25.00	1.052	-0.03	0.618	0.650
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	-	4132	826.4	24.78	25.00	1.052	-0.08	0.548	0.576
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	-	4132	826.4	24.78	25.00	1.052	-0.02	0.505	0.531



<FDD LTE SAR>

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 4_Ant 0c	20M	QPSK	1	0	Front	10mm	-	20175	1732.5	24.26	24.75	1.119	0.04	0.523	0.585
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Front	10mm	-	20175	1732.5	23.34	23.75	1.099	0.01	0.427	0.469
43	LTE Band 4_Ant 0c	20M	QPSK	1	0	Back	10mm	-	20175	1732.5	24.26	24.75	1.119	-0.06	0.543	0.608
	LTE Band 4_Ant 0c	20M	QPSK	50	0	Back	10mm	-	20175	1732.5	23.34	23.75	1.099	-0.07	0.441	0.485

Standalone																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Front	10mm	-	20850	2510	17.30	19.00	1.479	0.08	0.403	0.596
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Front	10mm	-	20850	2510	17.39	19.00	1.449	-0.05	0.395	0.572
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	20850	2510	17.30	19.00	1.479	-0.14	0.891	1.318
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21100	2535	17.29	19.00	1.483	-0.14	0.751	1.113
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21350	2560	17.29	19.00	1.483	-0.17	0.745	1.104
44	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	20850	2510	17.30	19.00	1.479	-0.11	0.894	1.322
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	Headset	20850	2510	17.30	19.00	1.479	-0.13	0.828	1.225
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	21100	2535	17.29	19.00	1.483	-0.12	0.754	1.118
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	21350	2560	17.29	19.00	1.483	-0.05	0.742	1.100
	LTE Band 7_Ant 0b	20M	QPSK	100	0	Back	10mm	-	20850	2510	17.45	19.00	1.429	-0.1	0.848	1.212
	LTE Band 7C_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21100	2535	17.40	19.00	1.445	-0.11	0.831	1.201
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	21350	2560	23.13	24.80	1.469	-0.18	0.744	1.093
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	20850	2510	23.08	24.80	1.486	-0.13	0.666	0.990
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	21100	2535	23.08	24.80	1.486	-0.1	0.699	1.039
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	21350	2560	23.22	23.80	1.143	-0.15	0.767	0.877
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	20850	2510	23.16	23.80	1.159	-0.05	0.691	0.801
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	21100	2535	23.17	23.80	1.156	-0.11	0.733	0.847
	LTE Band 7_Ant 0c	20M	QPSK	100	0	Front	10mm	-	21350	2560	23.19	23.80	1.151	-0.12	0.788	0.907
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	21350	2560	23.13	24.80	1.469	-0.15	0.872	1.281
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	Headset	21350	2560	23.13	24.80	1.469	-0.17	0.802	1.178
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	20850	2510	23.08	24.80	1.486	-0.12	0.780	1.159
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	21100	2535	23.08	24.80	1.486	-0.15	0.849	1.262
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	21350	2560	23.22	23.80	1.143	-0.16	0.905	1.034
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	20850	2510	23.16	23.80	1.159	-0.09	0.805	0.933
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	21100	2535	23.17	23.80	1.156	-0.08	0.885	1.023
	LTE Band 7_Ant 0c	20M	QPSK	100	0	Back	10mm	-	21350	2560	23.19	23.80	1.151	-0.16	0.923	1.062
	LTE Band 7C_Ant 0c	20M	QPSK	1	0	Back	10mm	-	21100	2535	23.35	24.80	1.396	-0.01	0.836	1.167
	LTE Band 7_Ant 1	20M	QPSK	1	99	Front	10mm	-	20850	2510	24.48	24.80	1.076	-0.03	0.469	0.505
	LTE Band 7_Ant 1	20M	QPSK	50	50	Front	10mm	-	20850	2510	23.55	23.80	1.059	-0.07	0.388	0.411
	LTE Band 7_Ant 1	20M	QPSK	1	99	Back	10mm	-	20850	2510	24.48	24.80	1.076	-0.01	0.468	0.504
	LTE Band 7_Ant 1	20M	QPSK	50	50	Back	10mm	-	20850	2510	23.55	23.80	1.059	-0.01	0.396	0.419
	LTE Band 7C_Ant 1	20M	QPSK	1	0	Front	10mm	-	21100	2535	24.45	24.80	1.084	-0.03	0.401	0.435

Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Front	10mm	-	20850	2510	17.30	17.50	1.047	0.08	0.403	0.422
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Front	10mm	-	20850	2510	17.39	17.50	1.026	-0.05	0.395	0.405
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	20850	2510	17.30	17.50	1.047	-0.14	0.891	0.933
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21100	2535	17.29	17.50	1.050	-0.14	0.751	0.788
	LTE Band 7_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21350	2560	17.29	17.50	1.050	-0.17	0.745	0.782
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	20850	2510	17.30	17.50	1.047	-0.11	0.894	0.936
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	Headset	20850	2510	17.30	17.50	1.047	-0.13	0.828	0.867
	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	21100	2535	17.29	17.50	1.050	-0.12	0.754	0.791



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	LTE Band 7_Ant 0b	20M	QPSK	50	0	Back	10mm	-	21350	2560	17.29	17.50	1.050	-0.05	0.742	0.779
	LTE Band 7_Ant 0b	20M	QPSK	100	0	Back	10mm	-	20850	2510	17.45	17.50	1.012	-0.1	0.848	0.858
	LTE Band 7C_Ant 0b	20M	QPSK	1	0	Back	10mm	-	21100	2535	17.40	17.50	1.023	-0.11	0.831	0.850
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	21350	2560	23.13	23.50	1.089	-0.18	0.744	0.810
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	20850	2510	23.08	23.50	1.102	-0.13	0.666	0.734
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Front	10mm	-	21100	2535	23.08	23.50	1.102	-0.1	0.699	0.770
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	21350	2560	23.22	23.50	1.067	-0.15	0.767	0.818
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	20850	2510	23.16	23.50	1.081	-0.05	0.691	0.747
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Front	10mm	-	21100	2535	23.17	23.50	1.079	-0.11	0.733	0.791
	LTE Band 7_Ant 0c	20M	QPSK	100	0	Front	10mm	-	21350	2560	23.19	23.50	1.074	-0.12	0.788	0.846
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	21350	2560	23.13	23.50	1.089	-0.15	0.872	0.950
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	Headset	21350	2560	23.13	23.50	1.089	-0.17	0.802	0.873
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	20850	2510	23.08	23.50	1.102	-0.12	0.780	0.859
	LTE Band 7_Ant 0c	20M	QPSK	1	99	Back	10mm	-	21100	2535	23.08	23.50	1.102	-0.15	0.849	0.935
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	21350	2560	23.22	23.50	1.067	-0.16	0.905	0.965
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	20850	2510	23.16	23.50	1.081	-0.09	0.805	0.871
	LTE Band 7_Ant 0c	20M	QPSK	50	50	Back	10mm	-	21100	2535	23.17	23.50	1.079	-0.08	0.885	0.955
	LTE Band 7_Ant 0c	20M	QPSK	100	0	Back	10mm	-	21350	2560	23.19	23.50	1.074	-0.16	0.923	0.991
	LTE Band 7C_Ant 0c	20M	QPSK	1	0	Back	10mm	-	21100	2535	23.35	23.50	1.035	-0.01	0.836	0.865
	LTE Band 7_Ant 1	20M	QPSK	1	99	Front	10mm	-	20850	2510	24.48	24.80	1.076	-0.03	0.469	0.505
	LTE Band 7_Ant 1	20M	QPSK	50	50	Front	10mm	-	20850	2510	23.55	23.80	1.059	-0.07	0.388	0.411
	LTE Band 7_Ant 1	20M	QPSK	1	99	Back	10mm	-	20850	2510	24.48	24.80	1.076	-0.01	0.468	0.504
	LTE Band 7_Ant 1	20M	QPSK	50	50	Back	10mm	-	20850	2510	23.55	23.80	1.059	-0.01	0.396	0.419
	LTE Band 7C_Ant 1	20M	QPSK	1	0	Front	10mm	-	21100	2535	24.45	24.80	1.084	-0.03	0.401	0.435

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Front	10mm	-	23095	707.5	24.58	25.00	1.102	-0.03	0.242	0.267
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Front	10mm	-	23095	707.5	23.71	24.00	1.069	-0.05	0.199	0.213
	LTE Band 12_Ant 0A	10M	QPSK	1	25	Back	10mm	-	23095	707.5	24.58	25.00	1.102	-0.01	0.304	0.335
	LTE Band 12_Ant 0A	10M	QPSK	25	12	Back	10mm	-	23095	707.5	23.71	24.00	1.069	-0.07	0.249	0.266
45	LTE Band 12_Ant 1	10M	QPSK	1	25	Front	10mm	-	23095	707.5	24.58	25.00	1.102	-0.02	0.322	0.355
	LTE Band 12_Ant 1	10M	QPSK	25	12	Front	10mm	-	23095	707.5	23.71	24.00	1.069	-0.05	0.263	0.281
	LTE Band 12_Ant 1	10M	QPSK	25	12	Back	10mm	-	23095	707.5	24.58	25.00	1.102	-0.1	0.312	0.344
	LTE Band 12_Ant 1	10M	QPSK	25	12	Back	10mm	-	23095	707.5	23.71	24.00	1.069	-0.08	0.257	0.275

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Front	10mm	-	23230	782	24.53	25.00	1.114	0.01	0.354	0.394
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Front	10mm	-	23230	782	23.67	24.00	1.079	-0.02	0.304	0.328
	LTE Band 13_Ant 0A	10M	QPSK	1	0	Back	10mm	-	23230	782	24.53	25.00	1.114	0	0.379	0.422
	LTE Band 13_Ant 0A	10M	QPSK	25	0	Back	10mm	-	23230	782	23.67	24.00	1.079	-0.03	0.317	0.342
46	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	-	23230	782	24.53	25.00	1.114	0.08	0.420	0.468
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	-	23230	782	23.67	24.00	1.079	0.05	0.349	0.377
	LTE Band 13_Ant 1	10M	QPSK	1	25	Back	10mm	-	23230	782	24.53	25.00	1.114	-0.01	0.404	0.450
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	-	23230	782	23.67	24.00	1.079	0.01	0.333	0.359





Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Front	10mm	-	26340	1880	24.36	24.75	1.094	-0.13	0.728	0.796
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Front	10mm	-	26340	1880	23.33	23.75	1.102	-0.14	0.562	0.619
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Back	10mm	-	26340	1880	24.36	24.75	1.094	-0.01	0.807	0.883
	LTE Band 25_Ant 0b	20M	QPSK	1	0	Back	10mm	-	26140	1860	24.26	24.75	1.119	-0.01	0.776	0.869
47	LTE Band 25_Ant 0b	20M	QPSK	1	0	Back	10mm	-	26590	1905	24.23	24.75	1.127	-0.01	0.825	0.930
	LTE Band 25_Ant 0b	20M	QPSK	50	24	Back	10mm	-	26340	1880	23.33	23.75	1.102	-0.01	0.642	0.707
	LTE Band 25_Ant 0b	20M	QPSK	100	0	Back	10mm	-	26340	1880	23.32	23.75	1.104	0.06	0.639	0.706
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	-	26340	1880	24.36	24.75	1.094	-0.08	0.490	0.536
	LTE Band 25_Ant 1	20M	QPSK	50	24	Front	10mm	-	26340	1880	23.33	23.75	1.102	-0.07	0.383	0.422
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	-	26340	1880	24.36	24.75	1.094	-0.06	0.617	0.675
	LTE Band 25_Ant 1	20M	QPSK	50	24	Back	10mm	-	26340	1880	23.33	23.75	1.102	-0.02	0.477	0.525

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0A	15M	QPSK	1	74	Front	10mm	-	26865	831.5	24.59	25.00	1.099	0	0.451	0.496
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Front	10mm	-	26865	831.5	23.71	24.00	1.069	0	0.379	0.405
48	LTE Band 26_Ant 0A	15M	QPSK	1	74	Back	10mm	-	26865	831.5	24.59	25.00	1.099	-0.06	0.552	0.607
	LTE Band 26_Ant 0A	15M	QPSK	36	20	Back	10mm	-	26865	831.5	23.71	24.00	1.069	-0.06	0.473	0.506
	LTE Band 26_Ant 1	15M	QPSK	1	74	Front	10mm	-	26865	831.5	24.59	25.00	1.099	0.01	0.433	0.476
	LTE Band 26_Ant 1	15M	QPSK	36	20	Front	10mm	-	26865	831.5	23.71	24.00	1.069	-0.05	0.370	0.396
	LTE Band 26_Ant 1	15M	QPSK	1	74	Back	10mm	-	26865	831.5	24.59	25.00	1.099	-0.03	0.398	0.437
	LTE Band 26_Ant 1	15M	QPSK	36	20	Back	10mm	-	26865	831.5	23.71	24.00	1.069	-0.02	0.345	0.369

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 0b	20M	QPSK	1	0	Front	10mm	-	132322	1745	24.40	24.75	1.084	0.04	0.650	0.705
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Front	10mm	-	132322	1745	23.54	23.75	1.050	0.03	0.544	0.571
49	LTE Band 66_Ant 0b	20M	QPSK	1	0	Back	10mm	-	132322	1745	24.40	24.75	1.084	-0.03	0.719	0.779
	LTE Band 66_Ant 0b	20M	QPSK	50	0	Back	10mm	-	132322	1745	23.54	23.75	1.050	0	0.617	0.648
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	-	132322	1745	24.40	24.75	1.084	-0.07	0.236	0.256
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	-	132322	1745	23.54	23.75	1.050	-0.03	0.188	0.197
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	-	132322	1745	24.40	24.75	1.084	-0.09	0.347	0.376
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	-	132322	1745	23.54	23.75	1.050	-0.09	0.234	0.246

Standalone / Simultaneous Transmission is active																
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_Ant 0A	20M	QPSK	1	0	Front	10mm	-	133297	680.5	24.66	25.00	1.081	-0.02	0.278	0.301
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Front	10mm	-	133297	680.5	23.70	24.00	1.072	-0.02	0.264	0.283
50	LTE Band 71_Ant 0A	20M	QPSK	1	0	Back	10mm	-	133297	680.5	24.66	25.00	1.081	-0.08	0.298	0.322
	LTE Band 71_Ant 0A	20M	QPSK	50	50	Back	10mm	-	133297	680.5	23.70	24.00	1.072	0	0.280	0.300
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	-	133297	680.5	24.66	25.00	1.081	0.03	0.258	0.279
	LTE Band 71_Ant 1	20M	QPSK	50	50	Front	10mm	-	133297	680.5	23.70	24.00	1.072	-0.03	0.236	0.253
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	-	133297	680.5	24.66	25.00	1.081	-0.03	0.255	0.276
	LTE Band 71_Ant 1	20M	QPSK	50	50	Back	10mm	-	133297	680.5	23.70	24.00	1.072	-0.06	0.249	0.267



<TDD LTE SAR>

Standalone

Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Front	10mm	-	41490	2680	19.61	21.50	1.545	62.9	1.006	0.07	0.277	0.431
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Front	10mm	-	41490	2680	19.85	21.50	1.462	62.9	1.006	0.06	0.292	0.430
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41490	2680	19.61	21.50	1.545	62.9	1.006	-0.03	0.561	0.872
	51	LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	39750	2506	19.57	21.50	1.560	62.9	1.006	-0.15	0.812	1.274
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	Headset	39750	2506	19.57	21.50	1.560	62.9	1.006	0.03	0.809	1.269
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	40185	2549.5	19.50	21.50	1.585	62.9	1.006	-0.11	0.675	1.076
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	40620	2593	19.54	21.50	1.570	62.9	1.006	0.12	0.722	1.141
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	19.52	21.50	1.578	62.9	1.006	-0.15	0.648	1.028
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	41490	2680	19.85	21.50	1.462	62.9	1.006	-0.11	0.580	0.853
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	39750	2506	19.75	21.50	1.496	62.9	1.006	-0.15	0.781	1.176
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	40185	2549.5	19.58	21.50	1.556	62.9	1.006	-0.13	0.694	1.086
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	40620	2593	19.75	21.50	1.496	62.9	1.006	-0.1	0.743	1.118
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	41055	2636.5	19.70	21.50	1.514	62.9	1.006	-0.17	0.661	1.006
		LTE Band 41_Ant 0b	20M	QPSK	100	0	Back	10mm	-	39750	2506	19.80	21.50	1.479	62.9	1.006	0.04	0.774	1.152
PC2		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	39750	2506	21.60	23.50	1.549	42.9	1.009	-0.14	0.812	1.269
		LTE Band 41C_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	19.74	21.50	1.500	62.9	1.006	0.01	0.799	1.205
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Front	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.03	0.339	0.343
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Front	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.04	0.269	0.271
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Back	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	0.07	0.382	0.386
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Back	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.03	0.303	0.305
		LTE Band 41C_Ant 0c	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.352	0.355
		LTE Band 41_Ant 1	20M	QPSK	1	99	Front	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	0.11	0.208	0.210
		LTE Band 41_Ant 1	20M	QPSK	50	50	Front	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	0.06	0.169	0.170
		LTE Band 41_Ant 1	20M	QPSK	1	99	Back	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.15	0.179	0.181
		LTE Band 41_Ant 1	20M	QPSK	50	50	Back	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.12	0.144	0.145
PC2		LTE Band 41_Ant 1	20M	QPSK	1	99	Front	10mm	-	41490	2680	26.74	26.80	1.014	42.9	1.009	-0.16	0.205	0.210
		LTE Band 41C_Ant 1	20M	QPSK	1	0	Front	10mm	-	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.201	0.203

Simultaneous Transmission is active

Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Front	10mm	-	41490	2680	19.61	20.00	1.094	62.9	1.006	0.07	0.277	0.305
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Front	10mm	-	41490	2680	19.85	20.00	1.035	62.9	1.006	0.06	0.292	0.304
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41490	2680	19.61	20.00	1.094	62.9	1.006	-0.03	0.561	0.617
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	39750	2506	19.57	20.00	1.104	62.9	1.006	-0.15	0.812	0.902
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	Headset	39750	2506	19.57	20.00	1.104	62.9	1.006	0.03	0.809	0.899
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	40185	2549.5	19.50	20.00	1.122	62.9	1.006	-0.11	0.675	0.762
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	40620	2593	19.54	20.00	1.112	62.9	1.006	0.12	0.722	0.807
		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	19.52	20.00	1.117	62.9	1.006	-0.15	0.648	0.728
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	41490	2680	19.85	20.00	1.035	62.9	1.006	-0.11	0.580	0.604
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	39750	2506	19.75	20.00	1.059	62.9	1.006	-0.15	0.781	0.832
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	40185	2549.5	19.58	20.00	1.102	62.9	1.006	-0.13	0.694	0.769
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	40620	2593	19.75	20.00	1.059	62.9	1.006	-0.1	0.743	0.792
		LTE Band 41_Ant 0b	20M	QPSK	50	50	Back	10mm	-	41055	2636.5	19.70	20.00	1.072	62.9	1.006	-0.17	0.661	0.713
		LTE Band 41_Ant 0b	20M	QPSK	100	0	Back	10mm	-	39750	2506	19.80	20.00	1.047	62.9	1.006	0.04	0.774	0.815
PC2		LTE Band 41_Ant 0b	20M	QPSK	1	0	Back	10mm	-	39750	2506	21.60	22.00	1.096	42.9	1.009	-0.14	0.812	0.898
		LTE Band 41C_Ant 0b	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	19.74	20.00	1.062	62.9	1.006	0.01	0.799	0.853
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Front	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.03	0.339	0.343
		LTE Band 41_Ant 0c	20M	QPSK	50	50	Front	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.04	0.269	0.271
		LTE Band 41_Ant 0c	20M	QPSK	1	99	Back	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	0.07	0.382	0.386





# FCC SAR TEST REPORT

Report No. : FA8N0616-06A

	LTE Band 41_Ant 0c	20M	QPSK	50	50	Back	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.03	0.303	0.305
	LTE Band 41C_Ant 0c	20M	QPSK	1	0	Back	10mm	-	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.352	0.355
	LTE Band 41_Ant 1	20M	QPSK	1	99	Front	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	0.11	0.208	0.210
	LTE Band 41_Ant 1	20M	QPSK	50	50	Front	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	0.06	0.169	0.170
	LTE Band 41_Ant 1	20M	QPSK	1	99	Back	10mm	-	41490	2680	24.78	24.80	1.005	62.9	1.006	-0.15	0.179	0.181
	LTE Band 41_Ant 1	20M	QPSK	50	50	Back	10mm	-	41490	2680	23.80	23.80	1.000	62.9	1.006	-0.12	0.144	0.145
PC2	LTE Band 41_Ant 1	20M	QPSK	1	99	Front	10mm	-	41490	2680	26.74	26.80	1.014	42.9	1.009	-0.16	0.205	0.210
	LTE Band 41C_Ant 1	20M	QPSK	1	0	Front	10mm	-	41055	2636.5	24.79	24.80	1.002	62.9	1.006	0.01	0.201	0.203

## <WLAN SAR>

Standalone																	
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 2	6	2437	22.9	23	1.023	99.52	1.005	0	0.406	0.418	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 2	6	2437	22.9	23	1.023	99.52	1.005	-0.04	0.490	0.504	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 3	6	2437	22.9	23	1.023	99.28	1.007	0.14	0.857	0.883	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 3	1	2412	22.7	23	1.072	99.28	1.007	0.01	0.831	0.897	
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 3	6	2437	22.9	23	1.023	99.28	1.007	-0.05	1.020	1.051	
52	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 3	1	2412	22.7	23	1.072	99.28	1.007	-0.15	1.010	1.090	

### Simultaneous Transmission is active

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	0.06	0.113	0.116
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 2	11	2462	16.92	17	1.019	99.52	1.005	-0.15	0.119	0.122
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	0.04	0.318	0.335
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 3	11	2462	18.31	18.5	1.045	99.28	1.007	-0.1	0.419	0.441
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 2+3(2)	11	2462	20.4	20.5	1.023	99.2	1.008	0.03	0.531	0.548
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	-	Ant 2+3(3)	11	2462	19.4	19.5	1.023	99.2	1.008	0.03	0.331	0.341
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 2+3(2)	11	2462	20.4	20.5	1.023	99.2	1.008	-0.06	0.561	0.579
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	-	Ant 2+3(3)	11	2462	19.4	19.5	1.023	99.2	1.008	-0.06	0.385	0.397

### Standalone

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	-	Ant 2	54	5270	20.40	21.00	1.148	96.94	1.032	0.04	0.411	0.487
53	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	-	Ant 2	54	5270	20.40	21.00	1.148	96.94	1.032	0.12	0.452	0.536
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	-	Ant 5	54	5270	20.70	21.00	1.072	96.94	1.032	0.03	0.102	0.113
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	-	Ant 5	54	5270	20.70	21.00	1.072	96.94	1.032	-0.02	0.371	0.410

### Simultaneous Transmission is active

Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	-	Ant 2	62	5310	17.50	17.50	1.000	95.45	1.048	0.13	0.132	0.138
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	-	Ant 2	62	5310	17.50	17.50	1.000	95.45	1.048	-0.17	0.288	0.302
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	-	Ant 5	62	5310	17.60	18.00	1.096	95.45	1.048	-0.14	0.068	0.078
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	-	Ant 5	62	5310	17.60	18.00	1.096	95.45	1.048	0.17	0.191	0.219
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	-	Ant 2+5	54	5270	17.98	18	1.005	95.45	1.048	0.16	0.143	0.151
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	-	Ant 2+5	54	5270	17.98	18	1.005	95.45	1.048	-0.04	0.349	0.367



Standalone																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2	138	5690	20.50	21.00	1.122	92	1.087	0.01	0.262	0.320
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2	138	5690	20.50	21.00	1.122	92	1.087	0	0.436	0.532
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 5	122	5610	20.50	21.00	1.122	93	1.075	0.08	0.135	0.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	122	5610	20.50	21.00	1.122	93	1.075	0.03	0.482	0.581
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	106	5530	15.60	16.00	1.096	93	1.075	0.02	0.142	0.167
54	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	138	5690	20.30	21.00	1.175	93	1.075	-0.05	0.522	0.659

Simultaneous Transmission is active																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2	138	5690	19.45	19.50	1.012	91.67	1.091	0.14	0.172	0.190
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2	138	5690	19.45	19.50	1.012	91.67	1.091	-0.09	0.328	0.362
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 5	138	5690	17.24	17.50	1.062	90.87	1.100	-0.03	0.055	0.064
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	138	5690	17.24	17.50	1.062	90.87	1.100	-0.1	0.174	0.203
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2+5	122	5610	15.91	16	1.021	92.15	1.085	0.15	0.153	0.169
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2+5	122	5610	15.91	16	1.021	92.15	1.085	-0.14	0.314	0.348

Standalone																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2	155	5775	19.50	20.00	1.122	92	1.087	-0.18	0.283	0.345
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2	155	5775	19.50	20.00	1.122	92	1.087	-0.16	0.340	0.415
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 5	155	5775	19.30	20.00	1.175	93	1.075	0.13	0.125	0.158
55	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	155	5775	19.30	20.00	1.175	93	1.075	-0.09	0.411	0.519

Simultaneous Transmission is active																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	0.06	0.097	0.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2	155	5775	15.61	16.00	1.094	91.67	1.091	-0.19	0.124	0.148
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	0.17	0.061	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 5	155	5775	17.65	18.00	1.084	90.87	1.100	-0.1	0.203	0.242
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	-	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.07	0.157	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	-	Ant 2+5	155	5775	14.42	14.5	1.019	92.15	1.085	0.15	0.272	0.301

<Bluetooth SAR>

Standalone																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	-	Ant 2	0	2402	18.67	19.5	1.211	76.84	1.301	0.04	0.086	0.135
56	Bluetooth	1Mbps	Back	10mm	-	Ant 2	0	2402	18.67	19.5	1.211	76.84	1.301	0.01	0.139	0.219

Simultaneous Transmission is active																
Plot No.	Band	Mode	Test Position	Gap (mm)	Headset	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	-	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	0.12	0.063	0.088
	Bluetooth	1Mbps	Back	10mm	-	Ant 2	00	2402	18.67	19	1.079	76.84	1.301	-0.11	0.09	0.126



**15.4 Repeated SAR Measurement**

No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 26_Ant 1	15M_QPSK_75_0	Right Cheek	0mm	26865	831.5	22.66	23.50	1.213	-	1.000	-0.06	0.924	-	1.121
2nd	LTE Band 26_Ant 1	15M_QPSK_75_0	Right Cheek	0mm	26865	831.5	22.66	23.50	1.213	-	1.000	-0.08	0.913	1.01	1.108
1st	LTE Band 66_Ant 1	20M_QPSK_100_0	Right Tilted	0mm	132572	1770	20.03	21.00	1.250	-	1.000	-0.06	0.871	-	1.089
2nd	LTE Band 66_Ant 1	20M_QPSK_100_0	Right Tilted	0mm	132572	1770	20.03	21.00	1.250	-	1.000	-0.13	0.847	1.03	1.059
1st	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	133297	680.5	24.66	25.00	1.081	-	1.000	-0.02	0.925	-	1.000
2nd	LTE Band 71_Ant 1	20M_QPSK_1_0	Right Cheek	0mm	133297	680.5	24.66	25.00	1.081	-	1.000	0.01	0.924	1.00	0.999
1st	LTE Band 7_Ant 0c	20M_QPSK_100_0	Back	10mm	21350	2560	23.19	23.80	1.151	-	1.000	-0.16	0.923	-	1.062
2nd	LTE Band 7_Ant 0c	20M_QPSK_100_0	Back	10mm	21350	2560	23.19	23.80	1.151	-	1.000	-0.14	0.877	1.05	1.009
1st	WCDMA II_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	24.53	24.75	1.052	-	1.000	-0.04	0.919	-	0.967
2nd	WCDMA II_Ant 0b	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	24.53	24.75	1.052	-	1.000	-0.04	0.883	1.04	0.929

**General Note:**

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8W/kg$ .
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45W/kg$ , only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



15.5 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

<LTE Band 41 Linearity Data for Head>

Table with 3 columns: Standalone, LTE Band 41 (Power Class 3), LTE Band 41 (Power Class 2). Rows include Maximum Tune up Power (dBm), Reported 1g SAR (W/kg), Duty Cycle, Frame Averaged (mW), Linearity SAR(W/kg), and % deviation from expected linearity.

<LTE Band 41 Linearity Data for Hotspot and Body-worn>

Table with 3 columns: Standalone, LTE Band 41 (Power Class 3), LTE Band 41 (Power Class 2). Rows include Maximum Tune up Power (dBm), Reported 1g SAR (W/kg), Duty Cycle, Frame Averaged (mW), Linearity SAR(W/kg), and % deviation from expected linearity.



16. Simultaneous Transmission Analysis

RF Exposure conditions	Item	Capable Transmit Configuration	
			SAR
Head <sup>(1)</sup>	1	WWAN off (Cellular off)	WiFi 5G SISO (Ant5) + Bluetooth (Ant2)
	2		WiFi 5G SISO (Ant2) + Bluetooth (Ant2)
	3		WiFi 5G MIMO (Ant5+Ant2) + Bluetooth (Ant2)
	4		WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5)
	5	WWAN ON (Cellular on)	WiFi 5G SISO (Ant5) + Bluetooth (Ant2)
	6		WiFi 5G SISO (Ant2) + Bluetooth (Ant2)
	7		WiFi 5G MIMO (Ant5+2) + Bluetooth (Ant2)
	8		WiFi 5G SISO (Ant5)
	9		WiFi 5G SISO (Ant2)
	10		WiFi 5G MIMO (Ant5+2)
	11		WiFi 2.4G SISO (Ant2)
	12		WiFi 2.4G SISO (Ant3)
	13		WiFi 2.4G MIMO/CDD (Ant2+3)
	14		Bluetooth (Ant2)
	15		WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5)

RF Exposure conditions	Item	Capable Transmit Configuration		PD
			SAR/MPE	
Body Worn/Hotspot/ Mobile Conditions <sup>(1)</sup>	16	WWAN OFF (Cellular off)	WiFi 5G SISO (Ant5) + Bluetooth (Ant2)	60 GHz Transmitter
	17		WiFi 5G SISO (Ant2) + Bluetooth (Ant2)	
	18		WiFi 5G MIMO (Ant5+2) + Bluetooth (Ant2)	
	19		WiFi 5G SISO (Ant5)	
	20		WiFi 5G SISO (Ant2)	
	21		WiFi 5G MIMO (Ant5+2)	
	22		WiFi 2.4G SISO (Ant2)	
	23		WiFi 2.4G SISO (Ant3)	
	24		WiFi 2.4G MIMO/CDD (Ant2+3)	
	25		Bluetooth (Ant2)	
	26	WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5)		
	27	WWAN ON (Cellular on)	WiFi 5G SISO (Ant5) + Bluetooth (Ant2)	
	28		WiFi 5G SISO (Ant2) + Bluetooth (Ant2)	
	29		WiFi 5G MIMO (Ant5+2) + Bluetooth (Ant2)	
	30		WiFi 5G SISO (Ant5)	
	31		WiFi 5G SISO (Ant2)	
	32		WiFi 5G MIMO (Ant5+2)	
	33		WiFi 2.4G SISO (Ant2)	
	34		WiFi 2.4G SISO (Ant3)	
	35		WiFi 2.4G MIMO/CDD (Ant2+3)	
36	Bluetooth (Ant2)			
37	WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5)			

General Note:

- When WWAN single transmitting or WWAN off and WiFi/BT is transmitting which is consider as standalone mode, When WWAN and WLAN/BT transmission at the same time which is consider as simultaneous transmission mode, for mobile condition is considered more than 20cm usage for this device refer to sporton report No.: FA8N0616-06B.
- The PD simultaneous transmission analysis refers to PD evaluation report.
- This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - Scalar SAR summation < 1.6W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR, if  $SPLSR < 0.1$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.



**16.1 Head Exposure Conditions**

**<Standalone>**

Exposure Position	2	3	4	5	6	2+5 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)			
Right Cheek	0.267	0.148	0.435	0.273	0.129	<b>0.540</b>	<b>0.415</b>	<b>0.837</b>
Right Tilted	0.086	0.124	0.150	0.254	0.038	<b>0.340</b>	<b>0.210</b>	<b>0.442</b>
Left Cheek	0.130	0.547	0.083	0.205	0.056	<b>0.335</b>	<b>0.677</b>	<b>0.344</b>
Left Tilted	0.059	0.380	0.059	0.153	0.011	<b>0.212</b>	<b>0.439</b>	<b>0.223</b>

**<Simultaneous Transmission is active>**

**<WWAN 0a/0b antennas>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
GSM850_Ant 0A	Right Cheek	0.324	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.472</b>	<b>0.880</b>	<b>0.888</b>	<b>0.726</b>	<b>0.916</b>	<b>0.864</b>
	Right Tilted	0.251	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.375</b>	<b>0.780</b>	<b>0.439</b>	<b>0.543</b>	<b>0.653</b>	<b>0.591</b>
	Left Cheek	0.446	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.993</b>	<b>1.001</b>	<b>0.585</b>	<b>0.707</b>	<b>0.835</b>	<b>0.781</b>
	Left Tilted	0.250	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.630</b>	<b>0.686</b>	<b>0.320</b>	<b>0.414</b>	<b>0.562</b>	<b>0.462</b>
GSM1900_Ant 0b	Right Cheek	0.392	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.540</b>	<b>0.948</b>	<b>0.956</b>	<b>0.794</b>	<b>0.984</b>	<b>0.932</b>
	Right Tilted	0.143	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.267</b>	<b>0.672</b>	<b>0.331</b>	<b>0.435</b>	<b>0.545</b>	<b>0.483</b>
	Left Cheek	0.338	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.885</b>	<b>0.893</b>	<b>0.477</b>	<b>0.599</b>	<b>0.727</b>	<b>0.673</b>
	Left Tilted	0.164	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.544</b>	<b>0.600</b>	<b>0.234</b>	<b>0.328</b>	<b>0.476</b>	<b>0.376</b>
WCDMA II_Ant 0b	Right Cheek	0.370	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.518</b>	<b>0.926</b>	<b>0.934</b>	<b>0.772</b>	<b>0.962</b>	<b>0.910</b>
	Right Tilted	0.127	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.251</b>	<b>0.656</b>	<b>0.315</b>	<b>0.419</b>	<b>0.529</b>	<b>0.467</b>
	Left Cheek	0.268	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.815</b>	<b>0.823</b>	<b>0.407</b>	<b>0.529</b>	<b>0.657</b>	<b>0.603</b>
	Left Tilted	0.130	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.510</b>	<b>0.566</b>	<b>0.200</b>	<b>0.294</b>	<b>0.442</b>	<b>0.342</b>
WCDMA IV_Ant 0b	Right Cheek	0.247	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.395</b>	<b>0.803</b>	<b>0.811</b>	<b>0.649</b>	<b>0.839</b>	<b>0.787</b>
	Right Tilted	0.159	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.283</b>	<b>0.688</b>	<b>0.347</b>	<b>0.451</b>	<b>0.561</b>	<b>0.499</b>
	Left Cheek	0.346	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.893</b>	<b>0.901</b>	<b>0.485</b>	<b>0.607</b>	<b>0.735</b>	<b>0.681</b>
	Left Tilted	0.162	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.542</b>	<b>0.598</b>	<b>0.232</b>	<b>0.326</b>	<b>0.474</b>	<b>0.374</b>
WCDMA V_Ant 0A	Right Cheek	0.380	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.528</b>	<b>0.936</b>	<b>0.944</b>	<b>0.782</b>	<b>0.972</b>	<b>0.920</b>
	Right Tilted	0.274	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.398</b>	<b>0.803</b>	<b>0.462</b>	<b>0.566</b>	<b>0.676</b>	<b>0.614</b>
	Left Cheek	0.457	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>1.004</b>	<b>1.012</b>	<b>0.596</b>	<b>0.718</b>	<b>0.846</b>	<b>0.792</b>
	Left Tilted	0.176	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.556</b>	<b>0.612</b>	<b>0.246</b>	<b>0.340</b>	<b>0.488</b>	<b>0.388</b>
LTE Band 7_Ant 0b	Right Cheek	0.676	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.824</b>	<b>1.232</b>	<b>1.240</b>	<b>1.078</b>	<b>1.268</b>	<b>1.216</b>
	Right Tilted	0.251	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.375</b>	<b>0.780</b>	<b>0.439</b>	<b>0.543</b>	<b>0.653</b>	<b>0.591</b>
	Left Cheek	0.419	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.966</b>	<b>0.974</b>	<b>0.558</b>	<b>0.680</b>	<b>0.808</b>	<b>0.754</b>
	Left Tilted	0.346	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.726</b>	<b>0.782</b>	<b>0.416</b>	<b>0.510</b>	<b>0.658</b>	<b>0.558</b>
LTE Band 12_Ant 0A	Right Cheek	0.256	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.404</b>	<b>0.812</b>	<b>0.820</b>	<b>0.658</b>	<b>0.848</b>	<b>0.796</b>
	Right Tilted	0.104	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.228</b>	<b>0.633</b>	<b>0.292</b>	<b>0.396</b>	<b>0.506</b>	<b>0.444</b>
	Left Cheek	0.311	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.858</b>	<b>0.866</b>	<b>0.450</b>	<b>0.572</b>	<b>0.700</b>	<b>0.646</b>
	Left Tilted	0.158	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.538</b>	<b>0.594</b>	<b>0.228</b>	<b>0.322</b>	<b>0.470</b>	<b>0.370</b>
LTE Band 13_Ant 0A	Right Cheek	0.284	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.432</b>	<b>0.840</b>	<b>0.848</b>	<b>0.686</b>	<b>0.876</b>	<b>0.824</b>
	Right Tilted	0.211	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.335</b>	<b>0.740</b>	<b>0.399</b>	<b>0.503</b>	<b>0.613</b>	<b>0.551</b>
	Left Cheek	0.368	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.915</b>	<b>0.923</b>	<b>0.507</b>	<b>0.629</b>	<b>0.757</b>	<b>0.703</b>
	Left Tilted	0.147	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.527</b>	<b>0.583</b>	<b>0.217</b>	<b>0.311</b>	<b>0.459</b>	<b>0.359</b>
LTE Band 25_Ant 0b	Right Cheek	0.439	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.587</b>	<b>0.995</b>	<b>1.003</b>	<b>0.841</b>	<b>1.031</b>	<b>0.979</b>
	Right Tilted	0.137	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.261</b>	<b>0.666</b>	<b>0.325</b>	<b>0.429</b>	<b>0.539</b>	<b>0.477</b>
	Left Cheek	0.230	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.777</b>	<b>0.785</b>	<b>0.369</b>	<b>0.491</b>	<b>0.619</b>	<b>0.565</b>
	Left Tilted	0.130	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.510</b>	<b>0.566</b>	<b>0.200</b>	<b>0.294</b>	<b>0.442</b>	<b>0.342</b>





**FCC SAR TEST REPORT**

Report No. : FA8N0616-06A

LTE Band 26_Ant 0A	Right Cheek	0.337	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.485</b>	<b>0.893</b>	<b>0.901</b>	<b>0.739</b>	<b>0.929</b>	<b>0.877</b>
	Right Tilted	0.251	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.375</b>	<b>0.780</b>	<b>0.439</b>	<b>0.543</b>	<b>0.653</b>	<b>0.591</b>
	Left Cheek	0.429	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.976</b>	<b>0.984</b>	<b>0.568</b>	<b>0.690</b>	<b>0.818</b>	<b>0.764</b>
	Left Tilted	0.246	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.626</b>	<b>0.682</b>	<b>0.316</b>	<b>0.410</b>	<b>0.558</b>	<b>0.458</b>
LTE Band 41_Ant 0b	Right Cheek	0.709	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.857</b>	<b>1.265</b>	<b>1.273</b>	<b>1.111</b>	<b>1.301</b>	<b>1.249</b>
	Right Tilted	0.172	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.296</b>	<b>0.701</b>	<b>0.360</b>	<b>0.464</b>	<b>0.574</b>	<b>0.512</b>
	Left Cheek	0.294	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.841</b>	<b>0.849</b>	<b>0.433</b>	<b>0.555</b>	<b>0.683</b>	<b>0.629</b>
	Left Tilted	0.216	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.596</b>	<b>0.652</b>	<b>0.286</b>	<b>0.380</b>	<b>0.528</b>	<b>0.428</b>
LTE Band 66_Ant 0b	Right Cheek	0.415	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.563</b>	<b>0.971</b>	<b>0.979</b>	<b>0.817</b>	<b>1.007</b>	<b>0.955</b>
	Right Tilted	0.182	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.306</b>	<b>0.711</b>	<b>0.370</b>	<b>0.474</b>	<b>0.584</b>	<b>0.522</b>
	Left Cheek	0.246	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.793</b>	<b>0.801</b>	<b>0.385</b>	<b>0.507</b>	<b>0.635</b>	<b>0.581</b>
	Left Tilted	0.170	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.550</b>	<b>0.606</b>	<b>0.240</b>	<b>0.334</b>	<b>0.482</b>	<b>0.382</b>
LTE Band 71_Ant 0A	Right Cheek	0.229	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.377</b>	<b>0.785</b>	<b>0.793</b>	<b>0.631</b>	<b>0.821</b>	<b>0.769</b>
	Right Tilted	0.130	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.254</b>	<b>0.659</b>	<b>0.318</b>	<b>0.422</b>	<b>0.532</b>	<b>0.470</b>
	Left Cheek	0.264	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.811</b>	<b>0.819</b>	<b>0.403</b>	<b>0.525</b>	<b>0.653</b>	<b>0.599</b>
	Left Tilted	0.088	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.468</b>	<b>0.524</b>	<b>0.158</b>	<b>0.252</b>	<b>0.400</b>	<b>0.300</b>

**<WWAN 0c antenna>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
WCDMA IV_Ant 0c	Right Cheek	0.049	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.197</b>	<b>0.605</b>	<b>0.613</b>	<b>0.451</b>	<b>0.641</b>	<b>0.589</b>
	Right Tilted	0.050	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.174</b>	<b>0.579</b>	<b>0.238</b>	<b>0.342</b>	<b>0.452</b>	<b>0.390</b>
	Left Cheek	0.154	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>0.701</b>	<b>0.709</b>	<b>0.293</b>	<b>0.415</b>	<b>0.543</b>	<b>0.489</b>
	Left Tilted	0.064	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.444</b>	<b>0.500</b>	<b>0.134</b>	<b>0.228</b>	<b>0.376</b>	<b>0.276</b>
LTE Band 4_Ant 0c	Right Cheek	0.255	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.403</b>	<b>0.811</b>	<b>0.819</b>	<b>0.657</b>	<b>0.847</b>	<b>0.795</b>
	Right Tilted	0.175	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.299</b>	<b>0.704</b>	<b>0.363</b>	<b>0.467</b>	<b>0.577</b>	<b>0.515</b>
	Left Cheek	0.544	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>1.091</b>	<b>1.099</b>	<b>0.683</b>	<b>0.805</b>	<b>0.933</b>	<b>0.879</b>
	Left Tilted	0.242	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.622</b>	<b>0.678</b>	<b>0.312</b>	<b>0.406</b>	<b>0.554</b>	<b>0.454</b>
LTE Band 7_Ant 0c	Right Cheek	0.421	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.569</b>	<b>0.977</b>	<b>0.985</b>	<b>0.823</b>	<b>1.013</b>	<b>0.961</b>
	Right Tilted	0.300	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.424</b>	<b>0.829</b>	<b>0.488</b>	<b>0.592</b>	<b>0.702</b>	<b>0.640</b>
	Left Cheek	0.919	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>1.466</b>	<b>1.474</b>	<b>1.058</b>	<b>1.180</b>	<b>1.308</b>	<b>1.254</b>
	Left Tilted	0.181	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.561</b>	<b>0.617</b>	<b>0.251</b>	<b>0.345</b>	<b>0.493</b>	<b>0.393</b>
LTE Band 41_Ant 0c	Right Cheek	0.328	0.267	0.148	0.435	0.273	0.129	0.556	0.463	<b>0.476</b>	<b>0.884</b>	<b>0.892</b>	<b>0.730</b>	<b>0.920</b>	<b>0.868</b>
	Right Tilted	0.213	0.086	0.124	0.150	0.254	0.038	0.529	0.364	<b>0.337</b>	<b>0.742</b>	<b>0.401</b>	<b>0.505</b>	<b>0.615</b>	<b>0.553</b>
	Left Cheek	0.471	0.130	0.547	0.083	0.205	0.056	0.555	0.333	<b>1.018</b>	<b>1.026</b>	<b>0.610</b>	<b>0.732</b>	<b>0.860</b>	<b>0.806</b>
	Left Tilted	0.116	0.059	0.380	0.059	0.153	0.011	0.436	0.301	<b>0.496</b>	<b>0.552</b>	<b>0.186</b>	<b>0.280</b>	<b>0.428</b>	<b>0.328</b>



<WWAN Ant 1 antenna>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
GSM850_Ant 1	Right Cheek	0.922	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.070	1.478	1.486	1.324	1.514	1.462
	Right Tilted	0.676	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.800	1.205	0.864	0.968	1.078	1.016
	Left Cheek	0.497	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.044	1.052	0.636	0.758	0.886	0.832
	Left Tilted	0.522	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.902	0.958	0.592	0.686	0.834	0.734
GSM1900_Ant 1	Right Cheek	0.860	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.008	1.416	1.424	1.262	1.452	1.400
	Right Tilted	0.930	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.054	1.459	1.118	1.222	1.332	1.270
	Left Cheek	0.238	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.785	0.793	0.377	0.499	0.627	0.573
WCDMA II_Ant 1	Right Cheek	0.798	0.267	0.148	0.435	0.273	0.129	0.556	0.463	0.946	1.354	1.362	1.200	1.390	1.338
	Right Tilted	0.902	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.026	1.431	1.090	1.194	1.304	1.242
	Left Cheek	0.275	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.822	0.830	0.414	0.536	0.664	0.610
	Left Tilted	0.379	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.759	0.815	0.449	0.543	0.691	0.591
WCDMA IV_Ant 1	Right Cheek	0.703	0.267	0.148	0.435	0.273	0.129	0.556	0.463	0.851	1.259	1.267	1.105	1.295	1.243
	Right Tilted	0.982	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.106	1.511	1.170	1.274	1.384	1.322
	Left Cheek	0.304	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.851	0.859	0.443	0.565	0.693	0.639
	Left Tilted	0.388	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.768	0.824	0.458	0.552	0.700	0.600
WCDMA V_Ant 1	Right Cheek	0.901	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.049	1.457	1.465	1.303	1.493	1.441
	Right Tilted	0.701	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.825	1.230	0.889	0.993	1.103	1.041
	Left Cheek	0.527	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.074	1.082	0.666	0.788	0.916	0.862
	Left Tilted	0.478	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.858	0.914	0.548	0.642	0.790	0.690
LTE Band 7_Ant 1	Right Cheek	0.974	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.122	1.530	1.538	1.376	1.566	1.514
	Right Tilted	0.688	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.812	1.217	0.876	0.980	1.090	1.028
	Left Cheek	0.286	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.833	0.841	0.425	0.547	0.675	0.621
	Left Tilted	0.207	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.587	0.643	0.277	0.371	0.519	0.419
LTE Band 12_Ant 1	Right Cheek	0.995	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.143	1.551	1.559	1.397	1.587	1.535
	Right Tilted	0.804	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.928	1.333	0.992	1.096	1.206	1.144
	Left Cheek	0.563	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.110	1.118	0.702	0.824	0.952	0.898
	Left Tilted	0.540	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.920	0.976	0.610	0.704	0.852	0.752
LTE Band 13_Ant 1	Right Cheek	1.000	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.148	1.556	1.564	1.402	1.592	1.540
	Right Tilted	0.719	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.843	1.248	0.907	1.011	1.121	1.059
	Left Cheek	0.634	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.181	1.189	0.773	0.895	1.023	0.969
	Left Tilted	0.620	0.059	0.380	0.059	0.153	0.011	0.436	0.301	1.000	1.056	0.690	0.784	0.932	0.832
LTE Band 25_Ant 1	Right Cheek	0.882	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.030	1.438	1.446	1.284	1.474	1.422
	Right Tilted	0.997	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.121	1.526	1.185	1.289	1.399	1.337
	Left Cheek	0.325	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.872	0.880	0.464	0.586	0.714	0.660
	Left Tilted	0.432	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.812	0.868	0.502	0.596	0.744	0.644
LTE Band 26_Ant 1	Right Cheek	0.999	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.147	1.555	1.563	1.401	1.591	1.539
	Right Tilted	0.712	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.836	1.241	0.900	1.004	1.114	1.052
	Left Cheek	0.654	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.201	1.209	0.793	0.915	1.043	0.989
	Left Tilted	0.574	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.954	1.010	0.644	0.738	0.886	0.786
LTE Band 41_Ant 1	Right Cheek	0.977	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.125	1.533	1.541	1.379	1.569	1.517
	Right Tilted	0.804	0.086	0.124	0.150	0.254	0.038	0.529	0.364	0.928	1.333	0.992	1.096	1.206	1.144
	Left Cheek	0.166	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.713	0.721	0.305	0.427	0.555	0.501
	Left Tilted	0.138	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.518	0.574	0.208	0.302	0.450	0.350
LTE Band 66_Ant 1	Right Cheek	0.681	0.267	0.148	0.435	0.273	0.129	0.556	0.463	0.829	1.237	1.245	1.083	1.273	1.221
	Right Tilted	0.971	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.095	1.500	1.159	1.263	1.373	1.311
	Left Cheek	0.286	0.130	0.547	0.083	0.205	0.056	0.555	0.333	0.833	0.841	0.425	0.547	0.675	0.621
	Left Tilted	0.413	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.793	0.849	0.483	0.577	0.725	0.625
LTE Band 71_Ant 1	Right Cheek	1.000	0.267	0.148	0.435	0.273	0.129	0.556	0.463	1.148	1.556	1.564	1.402	1.592	1.540
	Right Tilted	0.907	0.086	0.124	0.150	0.254	0.038	0.529	0.364	1.031	1.436	1.095	1.199	1.309	1.247
	Left Cheek	0.606	0.130	0.547	0.083	0.205	0.056	0.555	0.333	1.153	1.161	0.745	0.867	0.995	0.941
	Left Tilted	0.499	0.059	0.380	0.059	0.153	0.011	0.436	0.301	0.879	0.935	0.569	0.663	0.811	0.711



**16.2 Hotspot Exposure Conditions**

**<Simultaneous Transmission is active>**

**<WWAN 0a/0b antennas>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 2	2.4GHz WLAN Ant 3	5GHz WLAN Ant 2	5GHz WLAN Ant 5	Bluetooth Ant 2	2.4GHz WLAN Ant 1+2	2.4GHz WLAN Ant 1+2						
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)						
GSM850_Ant 0A	Front	0.500	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.835	1.048	0.714	0.671	0.772	0.689
	Back	0.653	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.094	1.232	0.923	1.017	1.076	1.017
	Left side	0.894	0.214		0.325	0.063	0.124	0.525	0.321	0.894	1.419	1.343	1.081	1.339	1.171
	Right side	0.308		0.531				0.597		0.839	0.905	0.308	0.308	0.308	0.308
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.620								0.620	0.620	0.620	0.620	0.620	0.620
GSM1900_Ant 0b	Front	0.738	0.116	0.335	0.116	0.073	0.098	0.548	0.174	1.073	1.286	0.952	0.909	1.010	0.927
	Back	0.651	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.092	1.230	0.921	1.015	1.074	1.015
	Left side	0.263	0.214		0.325	0.063	0.124	0.525	0.321	0.263	0.788	0.712	0.450	0.708	0.540
	Right side	0.634		0.531				0.597		1.165	1.231	0.634	0.634	0.634	0.634
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.683								0.683	0.683	0.683	0.683	0.683	0.683
WCDMA II_Ant 0b	Front	0.742	0.116	0.335	0.116	0.073	0.098	0.548	0.174	1.077	1.290	0.956	0.913	1.014	0.931
	Back	0.728	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.169	1.307	0.998	1.092	1.151	1.092
	Left side	0.305	0.214		0.325	0.063	0.124	0.525	0.321	0.305	0.830	0.754	0.492	0.750	0.582
	Right side	0.738		0.531				0.597		1.269	1.335	0.738	0.738	0.738	0.738
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.967								0.967	0.967	0.967	0.967	0.967	0.967
WCDMA IV_Ant 0b	Front	0.720	0.116	0.335	0.116	0.073	0.098	0.548	0.174	1.055	1.268	0.934	0.891	0.992	0.909
	Back	0.709	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.150	1.288	0.979	1.073	1.132	1.073
	Left side	0.180	0.214		0.325	0.063	0.124	0.525	0.321	0.180	0.705	0.629	0.367	0.625	0.457
	Right side	0.440		0.531				0.597		0.971	1.037	0.440	0.440	0.440	0.440
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.699								0.699	0.699	0.699	0.699	0.699	0.699
WCDMA V_Ant 0A	Front	0.487	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.822	1.035	0.701	0.658	0.759	0.676
	Back	0.650	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.091	1.229	0.920	1.014	1.073	1.014
	Left side	0.712	0.214		0.325	0.063	0.124	0.525	0.321	0.712	1.237	1.161	0.899	1.157	0.989
	Right side	0.320		0.531				0.597		0.851	0.917	0.320	0.320	0.320	0.320
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.513								0.513	0.513	0.513	0.513	0.513	0.513
LTE Band 7_Ant 0b	Front	0.422	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.757	0.970	0.636	0.593	0.694	0.611
	Back	0.933	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.374	1.512	1.203	1.297	1.356	1.297
	Left side	0.015	0.214		0.325	0.063	0.124	0.525	0.321	0.015	0.540	0.464	0.202	0.460	0.292
	Right side	0.654		0.531				0.597		1.185	1.251	0.654	0.654	0.654	0.654
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.526								0.526	0.526	0.526	0.526	0.526	0.526
LTE Band 12_Ant 0A	Front	0.267	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.602	0.815	0.481	0.438	0.539	0.456
	Back	0.335	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.776	0.914	0.605	0.699	0.758	0.699
	Left side	0.400	0.214		0.325	0.063	0.124	0.525	0.321	0.400	0.925	0.849	0.587	0.845	0.677
	Right side	0.221		0.531				0.597		0.752	0.818	0.221	0.221	0.221	0.221
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.279								0.279	0.279	0.279	0.279	0.279	0.279
LTE Band 13_Ant 0A	Front	0.394	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.729	0.942	0.608	0.565	0.666	0.583
	Back	0.422	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.863	1.001	0.692	0.786	0.845	0.786
	Left side	0.637	0.214		0.325	0.063	0.124	0.525	0.321	0.637	1.162	1.086	0.824	1.082	0.914
	Right side	0.396		0.531				0.597		0.927	0.993	0.396	0.396	0.396	0.396



**FCC SAR TEST REPORT**

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	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.370								<b>0.370</b>	<b>0.370</b>	<b>0.370</b>	<b>0.370</b>	<b>0.370</b>	<b>0.370</b>
LTE Band 25_Ant 0b	Front	0.499	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.834</b>	<b>1.047</b>	<b>0.713</b>	<b>0.670</b>	<b>0.771</b>	<b>0.688</b>
	Back	0.619	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>1.060</b>	<b>1.198</b>	<b>0.889</b>	<b>0.983</b>	<b>1.042</b>	<b>0.983</b>
	Left side	0.137	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.137</b>	<b>0.662</b>	<b>0.586</b>	<b>0.324</b>	<b>0.582</b>	<b>0.414</b>
	Right side	0.578		0.531				0.597		<b>1.109</b>	<b>1.175</b>	<b>0.578</b>	<b>0.578</b>	<b>0.578</b>	<b>0.578</b>
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.927								<b>0.927</b>	<b>0.927</b>	<b>0.927</b>	<b>0.927</b>	<b>0.927</b>	<b>0.927</b>
LTE Band 26_Ant 0A	Front	0.496	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.831</b>	<b>1.044</b>	<b>0.710</b>	<b>0.667</b>	<b>0.768</b>	<b>0.685</b>
	Back	0.607	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>1.048</b>	<b>1.186</b>	<b>0.877</b>	<b>0.971</b>	<b>1.030</b>	<b>0.971</b>
	Left side	0.696	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.696</b>	<b>1.221</b>	<b>1.145</b>	<b>0.883</b>	<b>1.141</b>	<b>0.973</b>
	Right side	0.248		0.531				0.597		<b>0.779</b>	<b>0.845</b>	<b>0.248</b>	<b>0.248</b>	<b>0.248</b>	<b>0.248</b>
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.533								<b>0.533</b>	<b>0.533</b>	<b>0.533</b>	<b>0.533</b>	<b>0.533</b>	<b>0.533</b>
LTE Band 41_Ant 0b	Front	0.305	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.640</b>	<b>0.853</b>	<b>0.519</b>	<b>0.476</b>	<b>0.577</b>	<b>0.494</b>
	Back	0.902	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>1.343</b>	<b>1.481</b>	<b>1.172</b>	<b>1.266</b>	<b>1.325</b>	<b>1.266</b>
	Left side	0.007	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.007</b>	<b>0.532</b>	<b>0.456</b>	<b>0.194</b>	<b>0.452</b>	<b>0.284</b>
	Right side	0.584		0.531				0.597		<b>1.115</b>	<b>1.181</b>	<b>0.584</b>	<b>0.584</b>	<b>0.584</b>	<b>0.584</b>
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.301								<b>0.301</b>	<b>0.301</b>	<b>0.301</b>	<b>0.301</b>	<b>0.301</b>	<b>0.301</b>
LTE Band 66_Ant 0b	Front	0.705	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>1.040</b>	<b>1.253</b>	<b>0.919</b>	<b>0.876</b>	<b>0.977</b>	<b>0.894</b>
	Back	0.779	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>1.220</b>	<b>1.358</b>	<b>1.049</b>	<b>1.143</b>	<b>1.202</b>	<b>1.143</b>
	Left side	0.120	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.120</b>	<b>0.645</b>	<b>0.569</b>	<b>0.307</b>	<b>0.565</b>	<b>0.397</b>
	Right side	0.553		0.531				0.597		<b>1.084</b>	<b>1.150</b>	<b>0.553</b>	<b>0.553</b>	<b>0.553</b>	<b>0.553</b>
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.950								<b>0.950</b>	<b>0.950</b>	<b>0.950</b>	<b>0.950</b>	<b>0.950</b>	<b>0.950</b>
LTE Band 71_Ant 0A	Front	0.301	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.636</b>	<b>0.849</b>	<b>0.515</b>	<b>0.472</b>	<b>0.573</b>	<b>0.490</b>
	Back	0.322	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.763</b>	<b>0.901</b>	<b>0.592</b>	<b>0.686</b>	<b>0.745</b>	<b>0.686</b>
	Left side	0.333	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.333</b>	<b>0.858</b>	<b>0.782</b>	<b>0.520</b>	<b>0.778</b>	<b>0.610</b>
	Right side	0.177		0.531				0.597		<b>0.708</b>	<b>0.774</b>	<b>0.177</b>	<b>0.177</b>	<b>0.177</b>	<b>0.177</b>
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.206</b>	<b>0.304</b>	<b>0.111</b>	<b>0.142</b>	<b>0.119</b>	<b>0.113</b>
	Bottom side	0.200								<b>0.200</b>	<b>0.200</b>	<b>0.200</b>	<b>0.200</b>	<b>0.200</b>	<b>0.200</b>



<WWAN 0c antenna>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
WCDMA IV_Ant 0c	Front	0.327	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.662	0.875	0.541	0.498	0.599	0.516
	Back	0.548	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.989	1.127	0.818	0.912	0.971	0.912
	Left side	0.236	0.214		0.325	0.063	0.124	0.525	0.321	0.236	0.761	0.685	0.423	0.681	0.513
	Right side	0.050		0.531				0.597		0.581	0.647	0.050	0.050	0.050	0.050
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.965								0.965	0.965	0.965	0.965	0.965	0.965
LTE Band 4_Ant 0c	Front	0.585	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.920	1.133	0.799	0.756	0.857	0.774
	Back	0.608	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.049	1.187	0.878	0.972	1.031	0.972
	Left side	0.597	0.214		0.325	0.063	0.124	0.525	0.321	0.597	1.122	1.046	0.784	1.042	0.874
	Right side	0.081		0.531				0.597		0.612	0.678	0.081	0.081	0.081	0.081
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.102								0.102	0.102	0.102	0.102	0.102	0.102
LTE Band 7_Ant 0c	Front	0.570	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.905	1.118	0.784	0.741	0.842	0.759
	Back	0.666	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.107	1.245	0.936	1.030	1.089	1.030
	Left side	0.947	0.214		0.325	0.063	0.124	0.525	0.321	0.947	1.472	1.396	1.134	1.392	1.224
	Right side	0.049		0.531				0.597		0.580	0.646	0.049	0.049	0.049	0.049
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.299								0.299	0.299	0.299	0.299	0.299	0.299
LTE Band 41_Ant 0c	Front	0.343	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.678	0.891	0.557	0.514	0.615	0.532
	Back	0.386	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.827	0.965	0.656	0.750	0.809	0.750
	Left side	0.586	0.214		0.325	0.063	0.124	0.525	0.321	0.586	1.111	1.035	0.773	1.031	0.863
	Right side	0.029		0.531				0.597		0.560	0.626	0.029	0.029	0.029	0.029
	Top side		0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.206	0.304	0.111	0.142	0.119	0.113
	Bottom side	0.251								0.251	0.251	0.251	0.251	0.251	0.251



<WWAN Ant 1 antenna>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
GSM850_Ant 1	Front	0.579	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.914	1.127	0.793	0.750	0.851	0.768
	Back	0.620	0.122	0.441	0.148	0.242	0.122	0.579	0.301	1.061	1.199	0.890	0.984	1.043	0.984
	Left side	0.165	0.214		0.325	0.063	0.124	0.525	0.321	0.165	0.690	0.614	0.352	0.610	0.442
	Right side	0.271		0.531				0.597		0.802	0.868	0.271	0.271	0.271	0.271
	Top side	0.222	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.428	0.526	0.333	0.364	0.341	0.335
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
GSM1900_Ant 1	Front	0.477	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.812	1.025	0.691	0.648	0.749	0.666
	Back	0.420	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.861	0.999	0.690	0.784	0.843	0.784
	Left side	0.285	0.214		0.325	0.063	0.124	0.525	0.321	0.285	0.810	0.734	0.472	0.730	0.562
	Right side	0.009		0.531				0.597		0.540	0.606	0.009	0.009	0.009	0.009
	Top side	0.948	0.012	0.206	0.070	0.101	0.041	0.304	0.078	1.154	1.252	1.059	1.090	1.067	1.061
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
WCDMA II_Ant 1	Front	0.530	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.865	1.078	0.744	0.701	0.802	0.719
	Back	0.523	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.964	1.102	0.793	0.887	0.946	0.887
	Left side	0.353	0.214		0.325	0.063	0.124	0.525	0.321	0.353	0.878	0.802	0.540	0.798	0.630
	Right side	0.010		0.531				0.597		0.541	0.607	0.010	0.010	0.010	0.010
	Top side	0.894	0.012	0.206	0.070	0.101	0.041	0.304	0.078	1.100	1.198	1.005	1.036	1.013	1.007
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
WCDMA IV_Ant 1	Front	0.251	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.586	0.799	0.465	0.422	0.523	0.440
	Back	0.310	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.751	0.889	0.580	0.674	0.733	0.674
	Left side	0.143	0.214		0.325	0.063	0.124	0.525	0.321	0.143	0.668	0.592	0.330	0.588	0.420
	Right side	0.007		0.531				0.597		0.538	0.604	0.007	0.007	0.007	0.007
	Top side	0.436	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.642	0.740	0.547	0.578	0.555	0.549
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
WCDMA V_Ant 1	Front	0.576	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.911	1.124	0.790	0.747	0.848	0.765
	Back	0.531	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.972	1.110	0.801	0.895	0.954	0.895
	Left side	0.202	0.214		0.325	0.063	0.124	0.525	0.321	0.202	0.727	0.651	0.389	0.647	0.479
	Right side	0.277		0.531				0.597		0.808	0.874	0.277	0.277	0.277	0.277
	Top side	0.223	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.429	0.527	0.334	0.365	0.342	0.336
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 7_Ant 1	Front	0.505	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.840	1.053	0.719	0.676	0.777	0.694
	Back	0.504	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.945	1.083	0.774	0.868	0.927	0.868
	Left side	0.315	0.214		0.325	0.063	0.124	0.525	0.321	0.315	0.840	0.764	0.502	0.760	0.592
	Right side	0.031		0.531				0.597		0.562	0.628	0.031	0.031	0.031	0.031
	Top side	0.357	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.563	0.661	0.468	0.499	0.476	0.470
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 12_Ant 1	Front	0.355	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.690	0.903	0.569	0.526	0.627	0.544
	Back	0.344	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.785	0.923	0.614	0.708	0.767	0.708
	Left side	0.193	0.214		0.325	0.063	0.124	0.525	0.321	0.193	0.718	0.642	0.380	0.638	0.470
	Right side	0.128		0.531				0.597		0.659	0.725	0.128	0.128	0.128	0.128
	Top side	0.120	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.326	0.424	0.231	0.262	0.239	0.233
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
LTE Band 13_Ant 1	Front	0.468	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.803	1.016	0.682	0.639	0.740	0.657
	Back	0.450	0.122	0.441	0.148	0.242	0.122	0.579	0.301	0.891	1.029	0.720	0.814	0.873	0.814
	Left side	0.194	0.214		0.325	0.063	0.124	0.525	0.321	0.194	0.719	0.643	0.381	0.639	0.471
	Right side	0.217		0.531				0.597		0.748	0.814	0.217	0.217	0.217	0.217
	Top side	0.172	0.012	0.206	0.070	0.101	0.041	0.304	0.078	0.378	0.476	0.283	0.314	0.291	0.285
	Bottom side									0.000	0.000	0.000	0.000	0.000	0.000
LTE Band	Front	0.447	0.116	0.335	0.116	0.073	0.098	0.548	0.174	0.782	0.995	0.661	0.618	0.719	0.636





25_Ant 1	Back	0.422	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.863</b>	<b>1.001</b>	<b>0.692</b>	<b>0.786</b>	<b>0.845</b>	<b>0.786</b>
	Left side	0.306	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.306</b>	<b>0.831</b>	<b>0.755</b>	<b>0.493</b>	<b>0.751</b>	<b>0.583</b>
	Right side	0.008		0.531				0.597		<b>0.539</b>	<b>0.605</b>	<b>0.008</b>	<b>0.008</b>	<b>0.008</b>	<b>0.008</b>
	Top side	0.978	0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>1.184</b>	<b>1.282</b>	<b>1.089</b>	<b>1.120</b>	<b>1.097</b>	<b>1.091</b>
	Bottom side									<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
LTE Band 26_Ant 1	Front	0.476	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.811</b>	<b>1.024</b>	<b>0.690</b>	<b>0.647</b>	<b>0.748</b>	<b>0.665</b>
	Back	0.437	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.878</b>	<b>1.016</b>	<b>0.707</b>	<b>0.801</b>	<b>0.860</b>	<b>0.801</b>
	Left side	0.192	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.192</b>	<b>0.717</b>	<b>0.641</b>	<b>0.379</b>	<b>0.637</b>	<b>0.469</b>
	Right side	0.235		0.531				0.597		<b>0.766</b>	<b>0.832</b>	<b>0.235</b>	<b>0.235</b>	<b>0.235</b>	<b>0.235</b>
	Top side	0.207	0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.413</b>	<b>0.511</b>	<b>0.318</b>	<b>0.349</b>	<b>0.326</b>	<b>0.320</b>
Bottom side									<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	
LTE Band 41_Ant 1	Front	0.210	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.545</b>	<b>0.758</b>	<b>0.424</b>	<b>0.381</b>	<b>0.482</b>	<b>0.399</b>
	Back	0.181	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.622</b>	<b>0.760</b>	<b>0.451</b>	<b>0.545</b>	<b>0.604</b>	<b>0.545</b>
	Left side	0.256	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.256</b>	<b>0.781</b>	<b>0.705</b>	<b>0.443</b>	<b>0.701</b>	<b>0.533</b>
	Right side	0.015		0.531				0.597		<b>0.546</b>	<b>0.612</b>	<b>0.015</b>	<b>0.015</b>	<b>0.015</b>	<b>0.015</b>
	Top side	0.182	0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.388</b>	<b>0.486</b>	<b>0.293</b>	<b>0.324</b>	<b>0.301</b>	<b>0.295</b>
Bottom side									<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	
LTE Band 66_Ant 1	Front	0.256	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.591</b>	<b>0.804</b>	<b>0.470</b>	<b>0.427</b>	<b>0.528</b>	<b>0.445</b>
	Back	0.376	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.817</b>	<b>0.955</b>	<b>0.646</b>	<b>0.740</b>	<b>0.799</b>	<b>0.740</b>
	Left side	0.154	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.154</b>	<b>0.679</b>	<b>0.603</b>	<b>0.341</b>	<b>0.599</b>	<b>0.431</b>
	Right side	0.009		0.531				0.597		<b>0.540</b>	<b>0.606</b>	<b>0.009</b>	<b>0.009</b>	<b>0.009</b>	<b>0.009</b>
	Top side	0.591	0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.797</b>	<b>0.895</b>	<b>0.702</b>	<b>0.733</b>	<b>0.710</b>	<b>0.704</b>
Bottom side									<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	
LTE Band 71_Ant 1	Front	0.279	0.116	0.335	0.116	0.073	0.098	0.548	0.174	<b>0.614</b>	<b>0.827</b>	<b>0.493</b>	<b>0.450</b>	<b>0.551</b>	<b>0.468</b>
	Back	0.276	0.122	0.441	0.148	0.242	0.122	0.579	0.301	<b>0.717</b>	<b>0.855</b>	<b>0.546</b>	<b>0.640</b>	<b>0.699</b>	<b>0.640</b>
	Left side	0.165	0.214		0.325	0.063	0.124	0.525	0.321	<b>0.165</b>	<b>0.690</b>	<b>0.614</b>	<b>0.352</b>	<b>0.610</b>	<b>0.442</b>
	Right side	0.074		0.531				0.597		<b>0.605</b>	<b>0.671</b>	<b>0.074</b>	<b>0.074</b>	<b>0.074</b>	<b>0.074</b>
	Top side	0.102	0.012	0.206	0.070	0.101	0.041	0.304	0.078	<b>0.308</b>	<b>0.406</b>	<b>0.213</b>	<b>0.244</b>	<b>0.221</b>	<b>0.215</b>
Bottom side									<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	

**16.3 Body-Worn Accessory Exposure Conditions**

**<Standalone>**

Exposure Position	2	3	4	5	6	2+5 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)			
Front	0.418	0.897	0.487	0.163	0.135	<b>0.581</b>	<b>1.315</b>	<b>0.785</b>
Back	0.504	1.090	0.536	0.659	0.219	<b>1.163</b>	<b>1.594</b>	<b>1.414</b>

**<Simultaneous Transmission is active>**

**<WWAN 0a/0b antennas>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 1+2 1g SAR (W/kg)	2.4GHz WLAN Ant 1+2 1g SAR (W/kg)						
GSM850_Ant 0A	Front	0.500	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.835</b>	<b>1.048</b>	<b>0.778</b>	<b>0.666</b>	<b>0.762</b>	<b>0.694</b>
	Back	0.653	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.094</b>	<b>1.232</b>	<b>1.141</b>	<b>1.021</b>	<b>1.146</b>	<b>1.017</b>
GSM1900_Ant 0b	Front	0.738	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.073</b>	<b>1.286</b>	<b>1.016</b>	<b>0.904</b>	<b>1.000</b>	<b>0.932</b>
	Back	0.651	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.092</b>	<b>1.230</b>	<b>1.139</b>	<b>1.019</b>	<b>1.144</b>	<b>1.015</b>
WCDMA II_Ant 0b	Front	0.742	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.077</b>	<b>1.290</b>	<b>1.020</b>	<b>0.908</b>	<b>1.004</b>	<b>0.936</b>
	Back	0.728	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.169</b>	<b>1.307</b>	<b>1.216</b>	<b>1.096</b>	<b>1.221</b>	<b>1.092</b>
WCDMA IV_Ant 0b	Front	0.720	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.055</b>	<b>1.268</b>	<b>0.998</b>	<b>0.886</b>	<b>0.982</b>	<b>0.914</b>
	Back	0.709	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.150</b>	<b>1.288</b>	<b>1.197</b>	<b>1.077</b>	<b>1.202</b>	<b>1.073</b>
WCDMA V_Ant 0A	Front	0.487	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.822</b>	<b>1.035</b>	<b>0.765</b>	<b>0.653</b>	<b>0.749</b>	<b>0.681</b>
	Back	0.650	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.091</b>	<b>1.229</b>	<b>1.138</b>	<b>1.018</b>	<b>1.143</b>	<b>1.014</b>
LTE Band 7_Ant 0b	Front	0.422	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.757</b>	<b>0.970</b>	<b>0.700</b>	<b>0.588</b>	<b>0.684</b>	<b>0.616</b>
	Back	0.936	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.377</b>	<b>1.515</b>	<b>1.424</b>	<b>1.304</b>	<b>1.429</b>	<b>1.300</b>
LTE Band 12_Ant 0A	Front	0.267	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.602</b>	<b>0.815</b>	<b>0.545</b>	<b>0.433</b>	<b>0.529</b>	<b>0.461</b>
	Back	0.335	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.776</b>	<b>0.914</b>	<b>0.823</b>	<b>0.703</b>	<b>0.828</b>	<b>0.699</b>
LTE Band 13_Ant 0A	Front	0.394	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.729</b>	<b>0.942</b>	<b>0.672</b>	<b>0.560</b>	<b>0.656</b>	<b>0.588</b>
	Back	0.422	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.863</b>	<b>1.001</b>	<b>0.910</b>	<b>0.790</b>	<b>0.915</b>	<b>0.786</b>
LTE Band 25_Ant 0b	Front	0.796	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.131</b>	<b>1.344</b>	<b>1.074</b>	<b>0.962</b>	<b>1.058</b>	<b>0.990</b>
	Back	0.930	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.371</b>	<b>1.509</b>	<b>1.418</b>	<b>1.298</b>	<b>1.423</b>	<b>1.294</b>
LTE Band 26_Ant 0A	Front	0.496	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.831</b>	<b>1.044</b>	<b>0.774</b>	<b>0.662</b>	<b>0.758</b>	<b>0.690</b>
	Back	0.607	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.048</b>	<b>1.186</b>	<b>1.095</b>	<b>0.975</b>	<b>1.100</b>	<b>0.971</b>
LTE Band 41_Ant 0b	Front	0.305	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.640</b>	<b>0.853</b>	<b>0.583</b>	<b>0.471</b>	<b>0.567</b>	<b>0.499</b>
	Back	0.902	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.343</b>	<b>1.481</b>	<b>1.390</b>	<b>1.270</b>	<b>1.395</b>	<b>1.266</b>
LTE Band 66_Ant 0b	Front	0.705	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.040</b>	<b>1.253</b>	<b>0.983</b>	<b>0.871</b>	<b>0.967</b>	<b>0.899</b>
	Back	0.779	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.220</b>	<b>1.358</b>	<b>1.267</b>	<b>1.147</b>	<b>1.272</b>	<b>1.143</b>
LTE Band 71_Ant 0A	Front	0.301	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.636</b>	<b>0.849</b>	<b>0.579</b>	<b>0.467</b>	<b>0.563</b>	<b>0.495</b>
	Back	0.322	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.763</b>	<b>0.901</b>	<b>0.810</b>	<b>0.690</b>	<b>0.815</b>	<b>0.686</b>



**<WWAN 0c antenna>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
WCDMA IV_Ant 0c	Front	0.510	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.845</b>	<b>1.058</b>	<b>0.788</b>	<b>0.676</b>	<b>0.772</b>	<b>0.704</b>
	Back	0.914	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.355</b>	<b>1.493</b>	<b>1.402</b>	<b>1.282</b>	<b>1.407</b>	<b>1.278</b>
LTE Band 4_Ant 0c	Front	0.585	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.920</b>	<b>1.133</b>	<b>0.863</b>	<b>0.751</b>	<b>0.847</b>	<b>0.779</b>
	Back	0.608	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.049</b>	<b>1.187</b>	<b>1.096</b>	<b>0.976</b>	<b>1.101</b>	<b>0.972</b>
LTE Band 7_Ant 0c	Front	0.846	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>1.181</b>	<b>1.394</b>	<b>1.124</b>	<b>1.012</b>	<b>1.108</b>	<b>1.040</b>
	Back	0.991	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.432</b>	<b>1.570</b>	<b>1.479</b>	<b>1.359</b>	<b>1.484</b>	<b>1.355</b>
LTE Band 41_Ant 0c	Front	0.343	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.678</b>	<b>0.891</b>	<b>0.621</b>	<b>0.509</b>	<b>0.605</b>	<b>0.537</b>
	Back	0.386	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.827</b>	<b>0.965</b>	<b>0.874</b>	<b>0.754</b>	<b>0.879</b>	<b>0.750</b>

**<WWAN Ant 1 antenna>**

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+3 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 3 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	Bluetooth Ant 2 1g SAR (W/kg)	2.4GHz WLAN Ant 2+3 1g SAR (W/kg)	5GHz WLAN Ant 2+5 1g SAR (W/kg)						
GSM850_Ant 1	Front	0.579	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.914</b>	<b>1.127</b>	<b>0.857</b>	<b>0.745</b>	<b>0.841</b>	<b>0.773</b>
	Back	0.620	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.061</b>	<b>1.199</b>	<b>1.108</b>	<b>0.988</b>	<b>1.113</b>	<b>0.984</b>
GSM1900_Ant 1	Front	0.435	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.770</b>	<b>0.983</b>	<b>0.713</b>	<b>0.601</b>	<b>0.697</b>	<b>0.629</b>
	Back	0.594	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.035</b>	<b>1.173</b>	<b>1.082</b>	<b>0.962</b>	<b>1.087</b>	<b>0.958</b>
WCDMA II_Ant 1	Front	0.575	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.910</b>	<b>1.123</b>	<b>0.853</b>	<b>0.741</b>	<b>0.837</b>	<b>0.769</b>
	Back	0.724	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.165</b>	<b>1.303</b>	<b>1.212</b>	<b>1.092</b>	<b>1.217</b>	<b>1.088</b>
WCDMA IV_Ant 1	Front	0.251	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.586</b>	<b>0.799</b>	<b>0.529</b>	<b>0.417</b>	<b>0.513</b>	<b>0.445</b>
	Back	0.310	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.751</b>	<b>0.889</b>	<b>0.798</b>	<b>0.678</b>	<b>0.803</b>	<b>0.674</b>
WCDMA V_Ant 1	Front	0.576	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.911</b>	<b>1.124</b>	<b>0.854</b>	<b>0.742</b>	<b>0.838</b>	<b>0.770</b>
	Back	0.531	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.972</b>	<b>1.110</b>	<b>1.019</b>	<b>0.899</b>	<b>1.024</b>	<b>0.895</b>
LTE Band 7_Ant 1	Front	0.505	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.840</b>	<b>1.053</b>	<b>0.783</b>	<b>0.671</b>	<b>0.767</b>	<b>0.699</b>
	Back	0.504	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.945</b>	<b>1.083</b>	<b>0.992</b>	<b>0.872</b>	<b>0.997</b>	<b>0.868</b>
LTE Band 12_Ant 1	Front	0.355	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.690</b>	<b>0.903</b>	<b>0.633</b>	<b>0.521</b>	<b>0.617</b>	<b>0.549</b>
	Back	0.344	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.785</b>	<b>0.923</b>	<b>0.832</b>	<b>0.712</b>	<b>0.837</b>	<b>0.708</b>
LTE Band 13_Ant 1	Front	0.468	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.803</b>	<b>1.016</b>	<b>0.746</b>	<b>0.634</b>	<b>0.730</b>	<b>0.662</b>
	Back	0.450	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.891</b>	<b>1.029</b>	<b>0.938</b>	<b>0.818</b>	<b>0.943</b>	<b>0.814</b>
LTE Band 25_Ant 1	Front	0.536	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.871</b>	<b>1.084</b>	<b>0.814</b>	<b>0.702</b>	<b>0.798</b>	<b>0.730</b>
	Back	0.675	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>1.116</b>	<b>1.254</b>	<b>1.163</b>	<b>1.043</b>	<b>1.168</b>	<b>1.039</b>
LTE Band 26_Ant 1	Front	0.476	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.811</b>	<b>1.024</b>	<b>0.754</b>	<b>0.642</b>	<b>0.738</b>	<b>0.670</b>
	Back	0.437	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.878</b>	<b>1.016</b>	<b>0.925</b>	<b>0.805</b>	<b>0.930</b>	<b>0.801</b>
LTE Band 41_Ant 1	Front	0.210	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.545</b>	<b>0.758</b>	<b>0.488</b>	<b>0.376</b>	<b>0.472</b>	<b>0.404</b>
	Back	0.181	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.622</b>	<b>0.760</b>	<b>0.669</b>	<b>0.549</b>	<b>0.674</b>	<b>0.545</b>
LTE Band 66_Ant 1	Front	0.256	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.591</b>	<b>0.804</b>	<b>0.534</b>	<b>0.422</b>	<b>0.518</b>	<b>0.450</b>
	Back	0.376	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.817</b>	<b>0.955</b>	<b>0.864</b>	<b>0.744</b>	<b>0.869</b>	<b>0.740</b>
LTE Band 71_Ant 1	Front	0.279	0.116	0.335	0.190	0.078	0.088	0.548	0.174	<b>0.614</b>	<b>0.827</b>	<b>0.557</b>	<b>0.445</b>	<b>0.541</b>	<b>0.473</b>
	Back	0.276	0.122	0.441	0.362	0.242	0.126	0.579	0.367	<b>0.717</b>	<b>0.855</b>	<b>0.764</b>	<b>0.644</b>	<b>0.769</b>	<b>0.640</b>



## **17. Supplemental Antenna tuner tests results**

### **General Note:**

1. This device implements antenna tuning techniques in the GSM850/1900, WCDMA B2/4/5, LTE 2/4/5/7/12/13/17/25/26/38/41/66/71. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
2. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
3. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
4. The device supports LTE B5/B26, B2/B25, B4/B66, B12/17 and B38/B41. Since the supported frequency span for LTE B5/B2/B4/B17/B38 falls completely within the supported frequency span for LTE B26/B25/B66/B12/B41, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR was only assessed for LTE B26/B25/B66/B12/B41. The single point SAR time-sweep measurements were treated independently for each supported ACL frequency band. For the LTE B5/B2/B4/B17/B38 single point SAR measurement selected the highest measured SAR configuration and exposure condition of LTE B26/B25/B66/B12/B41.
5. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
6. According to TCBC 201904 workshop, if any single point SAR measurement result is  $> 1.2$  W/kg for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
7. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).



<Ant 0a Tuner SAR results>

Head																																	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
GSM850	GPRS (4 Tx slots)	824.2	128	N/A	N/A	Left Cheek	0 mm	0.412	0.488	0.420	0.200	0.140	0.100	0.320	0.050	0.090	0.060	0.210	0.240	0.260	0.240	0.280	0.090	0.430	0.130	0.290	0.250	0.360	0.180	0.160	0.210	0.070	0.050
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139
WCDMA V	RMC12.2Kbps	826.4	4132	N/A	N/A	Left Cheek	0 mm	0.434	0.52	0.071	0.371	0.251	0.151	0.301	0.071	0.191	0.051	0.271	0.221	0.231	0.141	0.071	0.121	0.281	0.191	0.291	0.251	0.371	0.241	0.331	0.421	0.131	0.171
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140
LTE Band 12	QPSK	707.5	23095	1	25	Left Cheek	0 mm	0.282	0.323	0.250	0.170	0.230	0.080	0.210	0.110	0.150	0.080	0.240	0.160	0.190	0.070	0.230	0.070	0.090	0.060	0.070	0.220	0.200	0.080	0.110	0.150	0.180	0.060
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141
LTE Band 13	QPSK	782	23230	1	0	Left Cheek	0 mm	0.33	0.391	0.100	0.240	0.120	0.110	0.270	0.250	0.220	0.190	0.210	0.160	0.140	0.180	0.230	0.200	0.290	0.210	0.180	0.120	0.190	0.270	0.240	0.300	0.150	0.150
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142
LTE Band 26	QPSK	831.5	26865	1	74	Left Cheek	0 mm	0.39	0.471	0.210	0.280	0.110	0.080	0.390	0.180	0.330	0.340	0.290	0.110	0.380	0.080	0.340	0.080	0.190	0.240	0.060	0.100	0.320	0.420	0.250	0.440	0.210	0.240
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143
LTE Band 71	QPSK	680.5	133297	1	0	Left Cheek	0 mm	0.244	0.287	0.220	0.230	0.150	0.050	0.210	0.190	0.140	0.240	0.240	0.070	0.060	0.130	0.180	0.150	0.200	0.070	0.080	0.090	0.160	0.140	0.060	0.230	0.050	0.240
Body																																	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138
GSM850	GPRS (4 Tx slots)	836.4	189	N/A	N/A	Left Side	10mm	0.77	0.888	0.684	0.464	0.265	0.092	0.622	0.141	0.204	0.019	0.482	0.337	0.423	0.407	0.600	0.214	0.762	0.237	0.538	0.405	0.595	0.348	0.321	0.432	0.037	0.101
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	1	7	13	19	25	31	37	43	49	55	61	67	73	79	85	91	97	103	109	115	121	127	133	139
WCDMA V	RMC12.2Kbps	826.4	4132	N/A	N/A	Left Side	10mm	0.677	0.91	0.044	0.659	0.539	0.264	0.567	0.084	0.314	0.159	0.564	0.337	0.474	0.337	0.194	0.212	0.572	0.434	0.479	0.359	0.719	0.442	0.639	0.827	0.279	0.219
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	2	8	14	20	26	32	38	44	50	56	62	68	74	80	86	92	98	104	110	116	122	128	134	140
LTE Band 12	QPSK	707.5	23095	1	25	Left Side	10mm	0.363	0.471	0.355	0.248	0.245	0.107	0.326	0.230	0.299	0.117	0.400	0.253	0.347	0.032	0.395	0.092	0.111	0.057	0.162	0.281	0.302	0.117	0.110	0.289	0.252	0.167
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	3	9	15	21	27	33	39	45	51	57	63	69	75	81	87	93	99	105	111	117	123	129	135	141
LTE Band 13	QPSK	782	23230	1	0	Left Side	10mm	0.572	0.754	0.283	0.543	0.281	0.302	0.531	0.472	0.454	0.286	0.445	0.389	0.240	0.287	0.464	0.436	0.529	0.505	0.267	0.131	0.296	0.611	0.523	0.479	0.369	0.319
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	4	10	16	22	28	34	40	46	52	58	64	70	76	82	88	94	100	106	112	118	124	130	136	142
LTE Band 26	QPSK	831.5	26865	1	74	Left Side	10mm	0.633	0.841	0.365	0.450	0.196	0.173	0.606	0.371	0.549	0.677	0.498	0.096	0.629	0.123	0.507	0.073	0.339	0.339	0.077	0.179	0.541	0.750	0.456	0.686	0.315	0.469
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																								
									Auto-Tune	5	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113	119	125	131	137	143
LTE Band 71	QPSK	680.5	133297	1	0	Left Side	10mm	0.308	0.401	0.337	0.311	0.270	0.020	0.213	0.255	0.226	0.235	0.255	0.078	0.144	0.232	0.191	0.270	0.259	0.168	0.182	0.156	0.144	0.136	0.024	0.381	0.160	0.365



<Ant 0b Tuner SAR results>

Head																					
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	0	13	26	39	52	65	78	91	104	117	130	143
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Right Cheek	0 mm	0.843	1.064	0.823	0.139	0.396	0.536	0.292	0.468	0.621	0.961	0.725	0.491	0.951	1.061
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	1	14	27	40	53	66	79	92	105	118	131	
GSM1900	GPRS (4 Tx slots)	1909.8	810	N/A	N/A	Right Tilted	0 mm	0.747	1.023	0.898	0.958	1.018	0.413	1.018	1.021	1.002	1.006	0.996	0.966	1.006	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	2	15	28	41	54	67	80	93	106	119	132	
WCDMA II	RMC 12.2kbps	1907.6	9538	N/A	N/A	Right Tilted	0mm	0.823	1.132	0.642	0.921	1.028	0.521	1.017	1.061	0.348	1.124	1.121	1.037	1.026	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	3	16	29	42	55	68	81	94	107	120	133	
WCDMA IV	RMC 12.2kbps	1752.6	1513	N/A	N/A	Right Tilted	0mm	0.809	1.024	0.667	0.945	0.978	0.807	0.969	0.982	0.641	0.719	0.721	0.749	0.699	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	4	17	30	43	56	69	82	95	108	121	134	
WCDMA V	RMC 12.2kbps	846.6	4233	N/A	N/A	Right Cheek	0 mm	0.763	0.931	0.519	0.231	0.381	0.102	0.317	0.392	0.067	0.912	0.924	0.812	0.386	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	5	18	31	44	57	70	83	96	109	122	135	
LTE Band 7	QPSK	2535	21100	50	50	Right Cheek	0 mm	0.799	0.997	0.447	0.994	0.992	0.985	0.992	0.985	0.923	0.785	0.841	0.752	0.871	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	6	19	32	45	58	71	84	97	110	123	136	
LTE Band 12	QPSK	707.5	23095	50	0	Right Cheek	0 mm	0.851	1.029	0.337	0.811	0.945	0.381	0.719	0.841	0.229	0.051	0.314	0.582	0.305	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	7	20	33	46	59	72	85	98	111	124	137	
LTE Band 13	QPSK	782	23230	25	12	Right Cheek	0 mm	0.897	1.158	0.838	0.504	0.708	0.225	0.561	0.076	0.225	0.057	0.778	0.919	0.683	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	8	21	34	47	60	73	86	99	112	125	138	
LTE Band 25	QPSK	1905	26590	50	24	Right Tilted	0 mm	0.901	1.165	0.394	1.044	1.088	0.948	1.067	1.073	1.129	1.031	0.572	1.088	1.158	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	9	22	35	48	61	74	87	100	113	126	139	
LTE Band 26	QPSK	831.5	26865	75	0	Right Cheek	0mm	0.924	1.231	0.079	0.556	0.742	0.348	0.643	0.931	0.681	0.044	0.078	1.219	1.225	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	10	23	36	49	62	75	88	101	114	127	140	
LTE Band 41	QPSK	2506	39750	1	0	Right Cheek	0mm	0.864	1.07	0.973	1.062	1.069	1.058	1.05	0.703	0.983	0.981	0.797	0.826	0.941	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	11	24	37	50	63	76	89	102	115	128	141	
LTE Band 66	QPSK	1770	132572	100	0	Right Tilted	0 mm	0.871	1.091	0.925	1.072	1.089	1.036	1.087	0.875	0.842	0.836	1.065	0.834	0.876	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	12	25	38	51	64	77	90	103	116	129	142	
LTE Band 71	QPSK	680.5	133297	1	0	Right Cheek	0 mm	0.925	1.173	0.542	1.132	1.024	1.112	1.07	0.231	0.481	0.407	0.054	0.499	0.336	
Body																					
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	0	13	26	39	52	65	78	91	104	117	130	143
GSM850	GPRS (4 Tx slots)	842	128	N/A	N/A	Back	10mm	0.573	0.69	0.534	0.090	0.257	0.348	0.189	0.303	0.403	0.623	0.470	0.318	0.617	0.688
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	1	14	27	40	53	66	79	92	105	118	131	
GSM1900	GPRS (4 Tx slots)	1880	661	N/A	N/A	Top Side	10mm	0.796	0.978	0.858	0.916	0.973	0.395	0.973	0.976	0.958	0.962	0.952	0.924	0.962	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	2	15	28	41	54	67	80	93	106	119	132	
WCDMA II	RMC 12.2kbps	1907.6	9538	N/A	N/A	Top Side	10mm	0.795	0.978	0.555	0.796	0.888	0.450	0.879	0.917	0.301	0.971	0.968	0.896	0.886	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	3	16	29	42	55	68	81	94	107	120	133	
WCDMA IV	RMC 12.2kbps	1712.4	1312	N/A	N/A	Top Side	10mm	0.414	0.512	0.334	0.473	0.489	0.404	0.485	0.491	0.321	0.360	0.361	0.375	0.350	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	4	17	30	43	56	69	82	95	108	121	134	
WCDMA V	RMC 12.2kbps	826.4	4132	N/A	N/A	Front	10mm	0.548	0.635	0.354	0.158	0.260	0.070	0.216	0.267	0.046	0.622	0.630	0.554	0.263	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	5	18	31	44	57	70	83	96	109	122	135	
LTE Band 7	QPSK	2510	20850	1	99	Front	10mm	0.469	0.594	0.266	0.592	0.591	0.587	0.591	0.587	0.550	0.468	0.501	0.448	0.519	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	6	19	32	45	58	71	84	97	110	123	136	
LTE Band 12	QPSK	707.5	23095	1	25	Front	10mm	0.322	0.372	0.122	0.293	0.342	0.138	0.260	0.304	0.083	0.018	0.114	0.210	0.110	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	7	20	33	46	59	72	85	98	111	124	137	
LTE Band 13	QPSK	782	23230	25	12	Front	10mm	0.42	0.48	0.347	0.209	0.293	0.093	0.233	0.032	0.093	0.024	0.322	0.381	0.283	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	8	21	34	47	60	73	86	99	112	125	138	
LTE Band 25	QPSK	1905	26590	1	0	Top Side	10mm	0.911	1.08	0.365	0.968	1.009	0.879	0.989	0.995	1.047	0.956	0.530	1.009	1.074	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	9	22	35	48	61	74	87	100	113	126	139	
LTE Band 26	QPSK	831.5	26865	1	74	Front	10mm	0.433	0.514	0.033	0.232	0.310	0.145	0.268	0.389	0.284	0.018	0.033	0.509	0.511	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	10	23	36	49	62	75	88	101	114	127	140	





**FCC SAR TEST REPORT**

**Report No. : FA8N0616-06A**

		(MHz)		Size	Offset	Position		SAR (W/kg)	Auto-Tune	10	23	36	49	62	75	88	101	114	127	140	
LTE Band 41	QPSK	2680	41490	1	0	Left Side	10mm	0.253	0.328	0.298	0.326	0.328	0.324	0.322	0.215	0.301	0.301	0.244	0.253	0.288	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	11	24	37	50	63	76	89	102	115	128	141	
LTE Band 66	QPSK	1745	132322	1	0	Top Side	10mm	0.545	0.681	0.577	0.669	0.680	0.647	0.679	0.546	0.526	0.522	0.665	0.521	0.547	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	12	25	38	51	64	77	90	103	116	129	142	
LTE Band 71	QPSK	680.5	133297	1	0	Front	10mm	0.258	0.297	0.137	0.287	0.259	0.282	0.271	0.058	0.122	0.103	0.014	0.126	0.085	



<Ant 0c Tuner SAR results>

Head																														
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
GSM1900	GPRS (4 Tx slots)	1880	661	N/A	N/A	Right Cheek	0 mm	0.298	0.323	0.049	0.182	0.072	0.271	0.251	0.088	0.223	0.081	0.232	0.224	0.057	0.111	0.039	0.021	0.086	0.028	0.094	0.092	0.008	0.096	0.035
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	1	8	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113	120	127	134	141
WCDMA B2	RMC12.2Kbps	1907.6	9538	N/A	N/A	Right Cheek	0 mm	0.352	0.412	0.205	0.237	0.092	0.382	0.279	0.093	0.224	0.096	0.322	0.308	0.126	0.129	0.042	0.052	0.062	0.026	0.142	0.043	0.025	0.111	0.032
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	2	9	16	23	30	37	44	51	58	65	72	79	86	93	100	107	114	121	128	135	142
WCDMA B4	RMC12.2Kbps	1712.4	1312	N/A	N/A	Left Cheek	0 mm	0.329	0.338	0.057	0.043	0.068	0.119	0.183	0.031	0.328	0.088	0.187	0.118	0.012	0.047	0.112	0.009	0.011	0.091	0.034	0.116	0.006	0.007	0.041
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	3	10	17	24	31	38	45	52	59	66	73	80	87	94	101	108	115	122	129	136	143
LTE Band 7	QPSK	2510	20850	1	99	Right Cheek	0 mm	0.628	0.764	0.74	0.6	0.41	0.43	0.1	0.42	0.33	0.59	0.25	0.07	0.11	0.56	0.4	0.61	0.51	0.47	0.33	0.21	0.22	0.55	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	4	11	18	25	32	39	46	53	60	67	74	81	88	95	102	109	116	123	130	137	
LTE Band 25	QPSK	1880	26340	1	0	Right Cheek	0mm	0.401	0.39	0.25	0.19	0.11	0.23	0.15	0.28	0.19	0.14	0.14	0.13	0.24	0.08	0.25	0.16	0.21	0.19	0.18	0.28	0.15	0.28	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	5	12	19	26	33	40	47	54	61	68	75	82	89	96	103	110	117	124	131	138	
LTE Band 41	QPSK	2680	41490	1	99	Right Cheek	0mm	0.702	0.901	0.82	0.41	0.56	0.21	0.23	0.51	0.58	0.21	0.31	0.58	0.87	0.18	0.33	0.35	0.4	0.69	0.63	0.76	0.38	0.13	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	6	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118	125	132	139	
LTE Band 66	QPSK	1745	132322	1	0	Right Cheek	0mm	0.383	0.422	0.3	0.01	0.23	0.26	0.4	0.14	0.31	0.14	0.02	0.22	0.09	0.22	0.2	0.24	0.24	0.32	0.24	0.18	0.22	0.32	
Body																														
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
GSM1900	GPRS (4 Tx slots)	1880	661	N/A	N/A	Front	10mm	0.561	0.638	0.097	0.359	0.142	0.535	0.496	0.174	0.440	0.160	0.458	0.442	0.113	0.219	0.077	0.041	0.170	0.055	0.186	0.182	0.016	0.190	0.069
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	1	8	15	22	29	36	43	50	57	64	71	78	85	92	99	106	113	120	127	134	141
WCDMA B2	RMC12.2Kbps	1907.6	9538	N/A	N/A	Bottom Side	10mm	0.919	1.050	0.522	0.604	0.234	0.974	0.711	0.237	0.571	0.245	0.821	0.785	0.321	0.329	0.107	0.133	0.158	0.066	0.362	0.110	0.064	0.283	0.082
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	2	9	16	23	30	37	44	51	58	65	72	79	86	93	100	107	114	121	128	135	142
WCDMA B4	RMC12.2Kbps	1712.4	1312	N/A	N/A	Front	10mm	0.684	0.789	0.133	0.100	0.158	0.278	0.427	0.072	0.786	0.205	0.437	0.275	0.028	0.110	0.261	0.021	0.026	0.212	0.079	0.271	0.014	0.016	0.096
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	3	10	17	24	31	38	45	52	59	66	73	80	87	94	101	108	115	122	129	136	143
LTE Band 7	QPSK	2510	20850	50	0	Back	10mm	0.891	1.09	1.056	0.856	0.585	0.613	0.143	0.599	0.471	0.842	0.357	0.100	0.157	0.799	0.571	0.870	0.728	0.671	0.471	0.300	0.314	0.785	0.000
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	4	11	18	25	32	39	46	53	60	67	74	81	88	95	102	109	116	123	130	137	
LTE Band 25	QPSK	1905	26590	1	0	Back	10mm	0.809	0.928	0.605	0.382	0.162	0.587	0.257	0.666	0.422	0.403	0.363	0.319	0.651	0.100	0.515	0.431	0.510	0.442	0.488	0.626	0.297	0.726	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	5	12	19	26	33	40	47	54	61	68	75	82	89	96	103	110	117	124	131	138	
LTE Band 41	QPSK	2506	39750	1	0	Back	10mm	0.812	1.01	0.859	0.490	0.588	0.285	0.238	0.642	0.590	0.285	0.318	0.550	0.925	0.172	0.310	0.392	0.518	0.763	0.796	0.782	0.436	0.206	
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																					
									Auto-Tune	6	13	20	27	34	41	48	55	62	69	76	83	90	97	104	111	118	125	132	139	
LTE Band 66	QPSK	1770	132572	1	0	Bottom Side	10mm	0.872	1.01	0.718	0.024	0.550	0.622	0.957	0.335	0.742	0.335	0.048	0.527	0.215	0.527	0.479	0.574	0.574	0.766	0.574	0.431	0.527	0.766	



<Ant 1 Tuner SAR results>

Head																																													
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140
WCDMA IV	RMC 1.2.2kps	1712.4	1312	N/A	N/A	Left Cheek	0 mm	0.146	0.212	0.001	0.08	0.12	0.015	0.155	0.21	0.177	0.08	0.008	0.001	0.162	0.077	0.01	0.012	0.147	0.122	0.1	0.202	0.189	0.199	0.187	0.05	0.12	0.055	0.03	0.007	0.01	0.12	0.123	0.025	0.111	0.12	0.199	0.157	0.201	0.137
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133	137	141
LTE Band 4	QPSK	1732.5	20175	1	0	Left Cheek	0 mm	0.486	0.551	0.385	0.255	0.465	0.305	0.205	0.155	0.255	0.245	0.135	0.386	0.475	0.175	0.465	0.145	0.265	0.095	0.165	0.455	0.425	0.175	0.115	0.325	0.455	0.075	0.095	0.275	0.265	0.195	0.115	0.175	0.145	0.375	0.275	0.395	0.415	0.445
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	2	6	10	14	18	22	26	30	34	38	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126	130	134	138	142
LTE Band 7	QPSK	2560	21350	1	99	Left Cheek	0 mm	0.833	0.999	0.15	0.21	0.5	0.32	0.24	0.49	0.37	0.25	0.21	0.35	0.43	0.44	0.13	0.18	0.5	0.14	0.45	0.75	0.5	0.29	0.76	0.48	0.26	0.15	0.3	0.87	0.64	0.54	0.9	0.82	0.62	0.83	0.61	0.81	0.63	0.77
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	3	7	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143
LTE Band 41	QPSK	2680	41490	1	99	Left Cheek	0 mm	0.466	0.579	0.12	0.26	0.04	0.01	0.27	0.35	0.03	0.23	0.02	0.11	0.2	0.26	0.54	0.44	0.21	0.5	0.43	0.33	0.27	0.35	0.45	0.16	0.45	0.49	0.21	0.55	0.44	0.3	0.15	0.52	0.29	0.27	0.28	0.23	0.37	0.43
Body																																													
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	0	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140
WCDMA IV	RMC 1.2.2kps	1732.6	1413	N/A	N/A	Bottom Side	10mm	0.901	1.05	0.005	0.396	0.594	0.074	0.768	1.040	0.877	0.396	0.040	0.005	0.802	0.381	0.050	0.059	0.728	0.604	0.495	1.000	0.536	0.986	0.926	0.248	0.594	0.272	0.149	0.035	0.050	0.594	0.609	0.124	0.550	0.594	0.986	0.778	0.996	0.679
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133	137	141
LTE Band 4	QPSK	1732.5	20175	1	0	Back	10mm	0.543	0.621	0.434	0.287	0.524	0.344	0.231	0.175	0.287	0.276	0.152	0.434	0.535	0.197	0.524	0.163	0.299	0.107	0.196	0.513	0.479	0.197	0.130	0.396	0.513	0.085	0.107	0.310	0.299	0.220	0.130	0.197	0.163	0.423	0.310	0.445	0.498	0.502
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	2	6	10	14	18	22	26	30	34	38	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98	102	106	110	114	118	122	126	130	134	138	142
LTE Band 7	QPSK	2560	21350	1	99	Back	10mm	0.88	1.020	0.153	0.214	0.511	0.327	0.245	0.500	0.378	0.255	0.214	0.357	0.439	0.449	0.133	0.184	0.511	0.143	0.469	0.706	0.511	0.296	0.776	0.490	0.265	0.153	0.308	0.888	0.653	0.551	0.919	0.837	0.633	0.847	0.622	0.827	0.643	0.788
Band	Mode	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																																				
									Auto-Tune	3	7	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143
LTE Band 41	QPSK	2680	41490	1	99	Left Side	10mm	0.58	0.753	0.156	0.338	0.052	0.013	0.351	0.455	0.039	0.299	0.028	0.143	0.260	0.338	0.702	0.572	0.273	0.650	0.559	0.429	0.351	0.455	0.585	0.208	0.585	0.637	0.273	0.715	0.572	0.390	0.195	0.676	0.377	0.351	0.364	0.299	0.481	0.559

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18. Uncertainty Assessment

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



## **19. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.