

CA_4A-7A-12A	NA	4			Yes	Yes			40	0
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
		4			Yes	Yes	Yes	Yes	50	1
		7			Yes	Yes	Yes	Yes		
12			Yes	Yes						
CA_7A-12A-66A	NA	7			Yes	Yes	Yes	Yes	50	0
		12			Yes	Yes				
		66			Yes	Yes	Yes	Yes		
CA_7A-12B-66A	NA	7			Yes	Yes	Yes	Yes	55	0
		12	See CA_12B Bandwidth combination set 0							
		66			Yes	Yes	Yes	Yes		

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.4.2A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.

NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 4: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 5: For TDD inter-band Carrier Aggregation only non-simultaneous Rx/Tx uplink CA configurations can be supported by UE supporting corresponding DL CA configuration without simultaneous Rx/Tx.

NOTE 6: Void

NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].

NOTE 8: For the corresponding CA configuration, UE may not support Pcell transmissions in this E-UTRA band

#### Inter-band CA operating bands (Four bands)

E-UTRA CA configuration / Bandwidth combination set										
E-UTRA CA Configuration	Uplink CA configurations (NOTE 5)	E-UTRA Bands	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-4A-7A-12A	NA	2			Yes	Yes	Yes	Yes	70	0
		4			Yes	Yes	Yes	Yes		
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
CA_2A-7A-12A-66A	NA	2			Yes	Yes	Yes	Yes	70	0
		7			Yes	Yes	Yes	Yes		
		12			Yes	Yes				
		66			Yes	Yes	Yes	Yes		
CA_2A-7A-12B-66A	NA	2			Yes	Yes	Yes	Yes	75	0
		7			Yes	Yes	Yes	Yes		
		12	See CA_12B Bandwidth combination set 0							
		66			Yes	Yes	Yes	Yes		

NOTE 1: The CA Configuration refers to a combination of an operating band and a CA bandwidth class specified in Table 5.4.2A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.

NOTE 2: For each band combination, all combinations of indicated bandwidths belong to the set.

NOTE 3: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.

NOTE 4: Uplink CA configurations are the configurations supported by the present release of specifications.

NOTE 5: For TDD inter-band Carrier Aggregation only non-simultaneous Rx/Tx uplink CA configurations can be supported by UE supporting corresponding DL CA configuration without simultaneous Rx/Tx.

NOTE 6: Void

NOTE 7: Power imbalance between downlink carriers on Band 20 and Band 28 is assumed to be within [6dB].

NOTE 8: For the corresponding CA configuration, UE may not support Pcell transmissions in this E-UTRA band

Note:

- 1) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.101 V14.4.0 (2017-06)
- 2) The reference test frequencies for CA refers to 3GPP TS 36.508 V13.1.0

## 6.7.2 Test procedure for downlink CA

According to 201804 FCC RF Exposure TCB workshop slides, the guidance does not consider Intra-band DL CA and inter-band DL CA separately.

In applying the power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the CA configuration with the largest aggregated DL CA bandwidth in each frequency band group need consideration (independently for contiguous and non-contiguous CA). When the same frequency band is used for both contiguous and non-contiguous CA, power may be measured using the configuration with the largest aggregated bandwidth “and” maximum output power among the contiguous and non-contiguous CA configurations, otherwise, these are considered separately. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need consideration. the configurations that require power measurements are in the table as below:

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
2CCs#1	CA 2C		Nb	3CCs#1	CA 41D		Nb	4CCs#1	CA 2A-2A-66C		Nb	5CCs#1	CA 2A-7A-12B-66A		Nb
2CCs#2	CA 5B		Nb	3CCs#2	CA 66D		Nb	4CCs#2	CA 7A-7A-66A-66A		Nb				
2CCs#3	CA 7C		3CCs#6	3CCs#3	CA 2A-4A-4A		Nb	4CCs#3	CA 7C-66A-66A		Nb				
2CCs#4	CA 12B		3CCs#8	3CCs#4	CA 2A-2A-5A		Nb	4CCs#4	CA 2A-4A-7A-7A		Nb				
3CCs#5	CA 38C		Nb	3CCs#5	CA 2A-7A-7A		4CCs#4	4CCs#5	CA 2A-4A-7C		Nb				
2CCs#6	CA 41C		3CCs#26	3CCs#6	CA 2A-7C		4CCs#5	4CCs#6	CA 2A-4A-12A-12A		Nb				
2CCs#7	CA 66B		Nb	3CCs#7	CA 2A-2A-12A		Nb	4CCs#7	CA 2A-5A-66C		Nb				
2CCs#8	CA 66C		3CCs#9	3CCs#8	CA 2A-12B		4CCs#8	4CCs#8	CA 2A-7A-12B		5CCs#1				
2CCs#9	CA 2A-2A		3CCs#4	3CCs#9	CA 2A-66C		4CCs#9	4CCs#9	CA 2A-7A-7A-66A		Nb				
2CCs#10	CA 4A-4A		3CCs#3	3CCs#10	CA 2A-2A-66A		Nb	4CCs#10	CA 2A-7A-66A-66A		Nb				
2CCs#11	CA 7A-7A		3CCs#5	3CCs#11	CA 2A-66A-66A		4CCs#10	4CCs#11	CA 2A-12B-66A		5CCs#1				
2CCs#12	CA 12A-12A		4CCs#6	3CCs#12	CA 4A-4A-5A		Nb	4CCs#12	CA 7A-12B-66A		5CCs#1				
2CCs#13	CA 66A-66A		3CCs#11	3CCs#13	CA 4A-7C		4CCs#5	4CCs#13	CA 2A-4A-7A-12A		Nb				
2CCs#14	CA 2A-4A		3CCs#3	3CCs#14	CA 4A-4A-7A		Nb	4CCs#14	CA 2A-7A-12A-66A		Nb				
2CCs#15	CA 2A-5A		3CCs#4	3CCs#15	CA 4A-7A-7A		4CCs#4								
2CCs#16	CA 2A-7A		3CCs#5	3CCs#16	CA 4A-4A-12A	B12 SCC, Oh y	Nb								
2CCs#17	CA 2A-12A		3CCs#7	3CCs#17	CA 4A-12B	B12 SCC, Oh y	Nb								
2CCs#18	CA 2A-17A		Nb	3CCs#18	CA 5A-7C		Nb								
2CCs#19	CA 2A-66A		3CCs#10	3CCs#19	CA 5A-7A-7A		Nb								
2CCs#20	CA 4A-5A		3CCs#12	3CCs#20	CA 5A-66C		4CCs#7								
2CCs#21	CA 4A-7A		3CCs#14	3CCs#21	CA 7A-12B		4CCs#9								
2CCs#22	CA 4A-12A		3CCs#16	3CCs#22	CA 7C-66A		4CCs#3								
2CCs#23	CA 4A-17A	B17 SCC, Oh y	Nb	3CCs#23	CA 7A-7A-66A		4CCs#2								
2CCs#24	CA 5A-7A		3CCs#19	3CCs#24	CA 7A-66A-66A		4CCs#2								
2CCs#25	CA 5A-66A		3CCs#30	3CCs#25	CA 12B-66A		4CCs#11								
2CCs#26	CA 7A-12A		3CCs#31	3CCs#26	CA 26A-41C		Nb								
2CCs#27	CA 7A-66A		3CCs#33	3CCs#27	CA 2A-4A-5A		Nb								
2CCs#28	CA 12A-66A		3CCs#33	3CCs#28	CA 2A-4A-7A		4CCs#4								
2CCs#29	CA 26A-41A		Nb	3CCs#29	CA 2A-4A-12A		4CCs#6								
				3CCs#30	CA 2A-5A-66A		Nb								
				3CCs#31	CA 2A-7A-12A		4CCs#13								
				3CCs#32	CA 2A-7A-66A		4CCs#9								
				3CCs#33	CA 2A-12A-66A		4CCs#14								
				3CCs#34	CA 4A-7A-12A		4CCs#13								
				3CCs#35	CA 7A-12A-66A		4CCs#14								

Refer to section 7.1 of this report for detailed DL CA conducted power measurement results

### 6.7.3 Test procedure for Intra-band uplink CA

For Intra-band uplink LTE CA measurement (Uplink CA\_7C, CA\_38C, CA\_41C), the following procedure according to 201711 FCC RF Exposure TCB workshop slides is applied:

- 1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05 (Rel. 8)
  - UL PCC configuration is determined by the required test channel
  - SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.
- 2) SAR for UL CA is required in each exposure condition and frequency band combination
- 3) For this device , as the maximum output for Intra-band uplink LTE CA (Uplink CA\_7C, CA\_38C, CA\_41C) is  $\leq$  standalone LTE mode (without CA),
  - PCC is configured according to the highest standalone SAR configuration tested.
  - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- 4) When the reported SAR for UL CA configuration, described above, is  $> 1.2$  W/kg, UL CA SAR is also required for all required test channels(PCC based)
- 5) UL CA SAR is also required for standalone SAR configurations  $> 1.2$  W/kg when they are scaled to the UL CA power level.

Refer to section 7.1 of this report for detailed UL CA conducted power measurement results.

### 6.8 Dynamic antenna switching specification

The device supports dynamic Tx antenna switching function for 2G/3G/4G bands. It can transmit from either Main Antenna or Second Antenna, but they can not transmit simultaneously(Refer to the Antenna location picture in the appendix for details).

Note:

- 1) Main antenna consists of two parts: MHB antenna part (Ant1) for middle & high band antenna and LB antenna part (Ant2) for low band antenna.
- 2) Second antenna consists of two parts: Up MHB Antenna part (Ant 3) Middle & High band antenna and Up LB antenna part (Ant4) for low band antenna.

SAR test procedure for dynamic antenna switching is as below:

During the SAR test, the Main Antenna and Second Antenna are set to the MAX transmit power level respectively and test the SAR respectively in all applicable RF exposure conditions. Some AT command are supplied to fix the operation state and choose the antenna so that only one TX antenna tested at a time. We can ensure that all independent antennas and modem are completely covered by the appropriate SAR measurements and all simultaneous transmission possibilities are fully considered.

## 6.9 Power Reduction Specification

This device uses the following power reduction features to reduce the transmit power and ensure SAR compliance. These power reduction features are implemented using a single fixed level of reduction through static table look-up for some wireless operating modes or frequency bands and triggered by a single event or operation. The published RF exposure KDB procedures are applicable to the specific implementation and applied for testing. So PAG is not required for these features.

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when 2G/3G/4G and WIFI transmit simultaneously.
- 3) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 4) This device uses the mobile country code (MCC) to indicate whether the users in CE countries or FCC countries. The selection between CE countries and FCC countries power levels is based on the country code detection mechanism. It can determine the countries where users are and set the relevant power level for WiFi antennas accordingly.

<b>Antenna</b>	<b>MCC OF CE COUNTRY (CE standard)</b>	<b>MCC OF FCC COUNTRY (FCC standard)</b>
WiFi 2.4G Ant1	Power Level A3	Power Level B3
WiFi 2.4G Ant2	Power Level A4	Power Level B4
WiFi 5G Ant1	Power Level A5	Power Level B5
WiFi 5G Ant2	Power Level A6	Power Level B6

- 5) This device uses a proximity sensor to reduce the maximum output power of 2G/3G/4G main transmitting antenna in selected wireless modes and operating configurations to ensure SAR compliance. The procedures in KDB 616217 are applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions.

### 6.9.1 Power Reduction Specification of 2G/3G/4G Second Antenna

The following tables summarize the key power reduction information of 2G/3G/4G second antenna triggered by specific use conditions. The detailed full power and reduced conducted power measurement results are provided in Section 7 of this report:

Band	Second Antenna Power Reduction Level Amount (dB)			
	Second Antenna only		Second Antenna+WiFi Antenna simultaneous transmission	
	Receiver off	Receiver on	Receiver off	Receiver on
	Full Power	Reduced Power Level D1	Reduced Power Level D2	Reduced Power Level D3
GSM850	0	0.5	0	0.5
UMTS Band II	0	6.0	4.5	10.5
UMTS Band IV	0	7.5	4.0	11.0
UMTS Band V	0	6.5	3.0	9.5
LTE Band 2	0	5.0	4.0	9.0
LTE Band 4	0	7.0	3.0	10.0
LTE Band 5	0	6.0	3.5	9.5
LTE Band 7	0	6.5	2.5	8.5
LTE Band 12	0	2.0	1.5	3.5
LTE Band 17	0	2.0	0	2.0
LTE Band 26	0	5.5	3.0	8.5
LTE Band 38	0	7.0	1.5	8.5
LTE Band 41	0	8.0	1.5	9.5
LTE Band 66	0	7.0	3.5	10.5

Note: For Head SAR test of 2G/3G/4G Second Antenna, Standalone Head SAR should be evaluated at with audio receiver on. As the audio receiver only works in voice mode when the user is making a call in head scenario, and the lack of the third-party VoIP server and the unstandardized VOIP operating characteristics, so a test script may be used to trigger the receiver on during the test. The test script function is only used to trigger audio receiver on and simulate voice and VOIP usage scene. It can be ensured that the unmodified settings in production units, including maximum output power, amplifier gain and other RF performance or tuning parameters, are used for SAR measurement.

## 6.9.2 Power Reduction Specification of WiFi Antenna

The following tables summarize the key power reduction information of WiFi antennas. The detailed full power and reduced conducted power measurement results are provided in section 7 of this report:

Power Reduction Level Amount (dB)				
Band/Mode(Ant)	WiFi Antenna			
	MCC OF CE COUNTRY		MCC OF FCC COUNTRY	
	Receiver on	Receiver off (Full Power)	Receiver on	Receiver off (Full Power)
WiFi 2.4G 802.11b Ant5	7.0	0	8.5	0
WiFi 2.4G 802.11b Ant6	6.5	0	8.0	0
WiFi 2.4G 802.11g Ant5	6.0	0	7.5	0
WiFi 2.4G 802.11g Ant6	5.5	0	7.0	0
WiFi 2.4G 802.11n(20M) Ant5	5.0	0	6.5	0
WiFi 2.4G 802.11n(40M) Ant6	5.0	0	6.5	0
WiFi 2.4G 802.11n(20M) Ant5	4.5	0	6.0	0
WiFi 2.4G 802.11n(40M) Ant6	4.5	0	6.0	0
WiFi 2.4G 802.11g CDD	5.8	0	7.3	0
WiFi 2.4G 802.11n MIMO(20M)	4.8	0	6.3	0
WiFi 2.4G 802.11n MIMO(40M)	4.8	0	6.3	0
WiFi 5G 802.11a Ant5	3.5	0	8.5	0
WiFi 5G 802.11a Ant6	3.0	0	8.0	0
WiFi 5G 802.11n(20M) Ant5	3.5	0	8.5	0
WiFi 5G 802.11n (20M)Ant6	3.0	0	8.0	0
WiFi 5G 802.11 n(40M) Ant5	3.0	0	8.0	0
WiFi 5G 802.11n(40M) Ant6	2.5	0	7.5	0
WiFi 5G 802.11ac(20M) Ant5	3.5	0	8.5	0
WiFi 5G 802.11ac(20M) Ant6	3.0	0	8.0	0
WiFi 5G 802.11ac(40M) Ant5	3.0	0	8.0	0
WiFi 5G 802.11ac(40M) Ant6	2.5	0	7.5	0
WiFi 5G 802.11ac(80M) Ant5	0	0	2.0	0
WiFi 5G 802.11ac(80M) Ant6	0	0	2.0	0
WiFi 5G 802.11ac(160M) Ant5	0	0	0.5	0
WiFi 5G 802.11ac(160M) Ant6	0	0	0.5	0
WiFi 5G 802.11a CDD	3.5	0	8.3	0
WiFi 5G 802.11n (20M)MIMO	3.5	0	8.3	0
WiFi 5G 802.11n(40M) MIMO	2.8	0	7.8	0
WiFi 5G 802.11ac(20M) MIMO	3.5	0	8.3	0
WiFi 5G 802.11ac(40M) MIMO	2.8	0	7.8	0
WiFi 5G 802.11ac(80M) MIMO	0	0	1.0	0
WiFi 5G 802.11ac(160M) MIMO	0	0	0.3	0

For FCC SAR test, WiFi SAR test should be evaluated at the power level of FCC mobile country code for each exposure conditions.

### 6.9.3 Power Reduction Specification of 2G/3G/4G Main Antenna

The following tables summarize the key power reduction information of 2G/3G/4G main antenna. The detailed full power and reduced conducted power measurement results are provided in section 7 of this report:

Band	2G/3G/4G Main Antenna Power Reduction Level Amount (dB)					
	Full power (Other conditions)	Receiver off				
		hotspot off		hotspot on		
		sensor on*		sensor off	sensor on**	
Full Power	Reduced Power Level D1	Reduced Power Level D2	Reduced Power Level D3	Reduced Power Level D4	Reduced Power Level D5	
GSM1900	0	2.0	0	0	2	0
UMTS Band II	0	2.5	0	2.5	5.0	2.5
UMTS Band IV	0	3.0	0	3.0	6.0	3.0
LTE Band 2	0	2.0	0	2.0	4.0	2.0
LTE Band 4	0	3.0	0	3.0	6.0	3.0
LTE Band 7	0	4.0	2.5	2.5	6.5	5.0
UL CA_7C	0	4.0	2.5	2.5	6.5	5.0
LTE Band 38	0	2.0	0.5	2.0	4.0	2.5
UL CA_38C	0	2.0	0.5	2.0	4.0	2.5
LTE Bnad 41	0	2.0	0	2.0	4.0	2.0
UL CA_41C	0	2.0	0	2.0	4.0	2.0
LTE Band 66	0	2.0	0	3.0	5.0	3.0

Note:

- 1) \* Reduced Power Level D1 or Reduced Power Level D2 is determined by different sensor Trigger Distance ranges when hotspot is off;
- 2) \*\* Reduced Power Level D4 or Reduced Power Level D5 is determined by different sensor Trigger Distance range when hotspot is on;
- 3) For some frequency bands, the power reduction level amount value 0 means there is no power reduction in this frequency band and exposure conditions. The power level is the same as full power
- 4) Please refer to section 6.9.4 for detailed Proximity sensor power reduction test configuration and validation results per KDB616217.



## 6.9.4 Proximity sensor Power Reduction Test configuration and validation

Due to the operating configurations and exposure conditions required by the device, the proximity sensor is used to indicate when the device is held close to a user's body/hotspot exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance. **It is also set an output power leveled to the lowest one to make sure that in any case of SAR sensor hardware failure the SAR requirements can still be satisfied.**

The following tables summarize the key power reduction information for proximity sensor. The test procedures in KDB 616217 should be applied to determine proximity sensor triggering distances, and sensor coverage for normal and tilt positions. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

2G/3G/4G Main antenna (hotspot off)					
Band	Test position	Sensor Trigger Distance range(DUT to Phantom)	Power reduction amount(dB)	Max Power level (dBm)	Power level
GSM 1900	Bottom side	0mm ≤ distance ≤ 8mm	2.0	29.0	Reduced Power Level D1
		8mm < distance	0	31.0	Full Power
	Back side	0mm ≤ distance ≤ 6mm	2.0	29.0	Reduced Power Level D1
		6mm < distance	0	31.0	Full Power
	Front side	0mm ≤ distance ≤ 2mm	2.0	29.0	Reduced Power Level D1
		2mm < distance	0	31.0	Full Power
	Left side	ALL	0	31.0	Full Power
	Right side	ALL	0	31.0	Full Power
	Top side	ALL	0	31.0	Full Power
	UMTS Band II	Bottom side	0mm ≤ distance ≤ 8mm	2.5	22.5
8mm < distance			0	25.0	Full Power
Back side		0mm ≤ distance ≤ 6mm	2.5	22.5	Reduced Power Level D1
		6mm < distance	0	25.0	Full Power
Front side		0mm ≤ distance ≤ 2mm	2.5	22.5	Reduced Power Level D1
		2mm < distance	0	25.0	Full Power
Left side		ALL	0	25.0	Full Power



	Right side	ALL	0	25.0	Full Power
	Top side	ALL	0	25.0	Full Power
UMTS Band IV	Bottom side	$0\text{mm} \leq \text{distance} \leq 8\text{mm}$	3.0	22.0	Reduced Power Level D1
		$8\text{mm} < \text{distance}$	0	25.0	Full Power
	Back side	$0\text{mm} \leq \text{distance} \leq 6\text{mm}$	3.0	22.0	Reduced Power Level D1
		$6\text{mm} < \text{distance}$	0	25.0	Full Power
	Front side	$0\text{mm} \leq \text{distance} \leq 2\text{mm}$	3.0	22.0	Reduced Power Level D1
		$2\text{mm} < \text{distance}$	0	25.0	Full Power
	Left side	ALL	0	25.0	Full Power
	Right side	ALL	0	25.0	Full Power
	Top side	ALL	0	25.0	Full Power
	LTE B2	Bottom side	$0\text{mm} \leq \text{distance} \leq 8\text{mm}$	2.0	22.7
$8\text{mm} < \text{distance}$			0	24.7	Full Power
Back side		$0\text{mm} \leq \text{distance} \leq 6\text{mm}$	2.0	22.7	Reduced Power Level D1
		$6\text{mm} < \text{distance}$	0	24.7	Full Power
Front side		$0\text{mm} \leq \text{distance} \leq 2\text{mm}$	2.0	22.7	Reduced Power Level D1
		$2\text{mm} < \text{distance}$	0	24.7	Full Power
Left side		ALL	0	24.7	Full Power
Right side		ALL	0	24.7	Full Power
Top side		ALL	0	24.7	Full Power
LTE B4		Bottom side	$0\text{mm} \leq \text{distance} \leq 8\text{mm}$	3.0	22.2
	$8\text{mm} < \text{distance}$		0	25.2	Full Power
	Back side	$0\text{mm} \leq \text{distance} \leq 6\text{mm}$	3.0	22.2	Reduced Power Level D1
		$6\text{mm} < \text{distance}$	0	25.2	Full Power
	Front side	$0\text{mm} \leq \text{distance} \leq 2\text{mm}$	3.0	22.2	Reduced Power Level D1
		$2\text{mm} < \text{distance}$	0	25.2	Full Power
	Left side	ALL	0	25.2	Full Power
	Right side	ALL	0	25.2	Full Power

	Top side	ALL	0	25.2	Full Power
LTE B7	Bottom side	0mm ≤ distance ≤ 8mm	4.0	20.7	Reduced Power Level D1
		8mm < distance ≤ 11mm	2.5	22.2	Reduced Power Level D2
		distance > 11mm	0	24.7	Full Power
	Back side	0mm ≤ distance ≤ 6mm	4.0	20.7	Reduced Power Level D1
		6mm < distance ≤ 9mm	2.5	22.2	Reduced Power Level D2
		distance > 9mm	0	24.7	Full Power
	Front side	0mm ≤ distance ≤ 2mm	4.0	20.7	Reduced Power Level D1
		2mm < distance ≤ 6mm	2.5	22.2	Reduced Power Level D2
		distance > 6mm	0	24.7	Full Power
	Left side	ALL	0	24.7	Full Power
	Right side	ALL	0	24.7	Full Power
	Top side	ALL	0	24.7	Full Power
	LTE B38	Bottom side	0mm ≤ distance ≤ 8mm	2.0	23.0
8mm < distance ≤ 11mm			0.5	24.5	Reduced Power Level D2
distance > 11mm			0	25.0	Full Power
Back side		0mm ≤ distance ≤ 6mm	2.0	23.0	Reduced Power Level D1
		6mm < distance ≤ 9mm	0.5	24.5	Reduced Power Level D2
		distance > 9mm	0	25.0	Full Power
Front side		0mm ≤ distance ≤ 2mm	2.0	23.0	Reduced Power Level D1
		2mm < distance ≤ 6mm	0.5	24.5	Reduced Power Level D2
		distance > 6mm	0	25.0	Full Power
Left side		ALL	0	25.0	Full Power
Right side		ALL	0	25.0	Full Power
Top side		ALL	0	25.0	Full Power

LTE B41	Bottom side	$0\text{mm} \leq \text{distance} \leq 8\text{mm}$	2.0	23.2	Reduced Power Level D1
		$8\text{mm} < \text{distance}$	0	25.2	Full Power
	Back side	$0\text{mm} \leq \text{distance} \leq 6\text{mm}$	2.0	23.2	Reduced Power Level D1
		$6\text{mm} < \text{distance}$	0	25.2	Full Power
	Front side	$0\text{mm} \leq \text{distance} \leq 2\text{mm}$	2.0	23.2	Reduced Power Level D1
		$2\text{mm} < \text{distance}$	0	25.2	Full Power
	Left side	ALL	0	25.2	Full Power
	Right side	ALL	0	25.2	Full Power
	Top side	ALL	0	25.2	Full Power
LTE B66	Bottom side	$0\text{mm} \leq \text{distance} \leq 8\text{mm}$	2.0	23.2	Reduced Power Level D1
		$8\text{mm} < \text{distance}$	0	25.2	Full Power
	Back side	$0\text{mm} \leq \text{distance} \leq 6\text{mm}$	2.0	23.2	Reduced Power Level D1
		$6\text{mm} < \text{distance}$	0	25.2	Full Power
	Front side	$0\text{mm} \leq \text{distance} \leq 2\text{mm}$	2.0	23.2	Reduced Power Level D1
		$2\text{mm} < \text{distance}$	0	25.2	Full Power
	Left side	ALL	0	25.2	Full Power
	Right side	ALL	0	25.2	Full Power
	Top side	ALL	0	25.2	Full Power

Note:

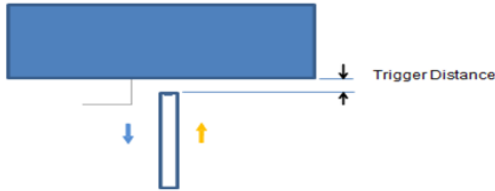
To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering and sensor coverage for normal and tilt positions for all usage conditions and applicable sides, minus 1 mm, must be used as the test separation distance for additional SAR testing of each higher power stage.

For the other sides or other frequency bands of the device, SAR is still tested at the maximum full power level with sensor off.

## 1) Procedures for determining proximity sensor triggering distances

The device was tested by the test lab to determine the proximity sensor triggering distances for the front side, back side and bottom side of the device. To ensure all production units are compliant, the smallest separation distance determined by the sensor triggering minus 1 mm, must be used as the test separation distance for SAR testing.

the proximity sensor triggering distance measurement method are as below:



Picture: Proximity sensor triggering distances assessment Bottom Side



Picture: Proximity sensor triggering distances assessment Front Side and Back side

**Table: Summary of Trigger Distances**

Band	Reduced Power Level	Trigger distance-Front Side		Trigger distance-Back Side		Trigger distance-Bottom Side	
		Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom	Moving toward phantom	Moving away from phantom
GSM1900	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
UMTS Band II	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
UMTS Band IV	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
LTE Band 2	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
LTE Band 4	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
LTE Band 7	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
	Reduced Power Level D2	6mm	6mm	9mm	9mm	11mm	11mm
UL CA_7C	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
	Reduced Power Level D2	6mm	6mm	9mm	9mm	11mm	11mm
LTE Band 38	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm

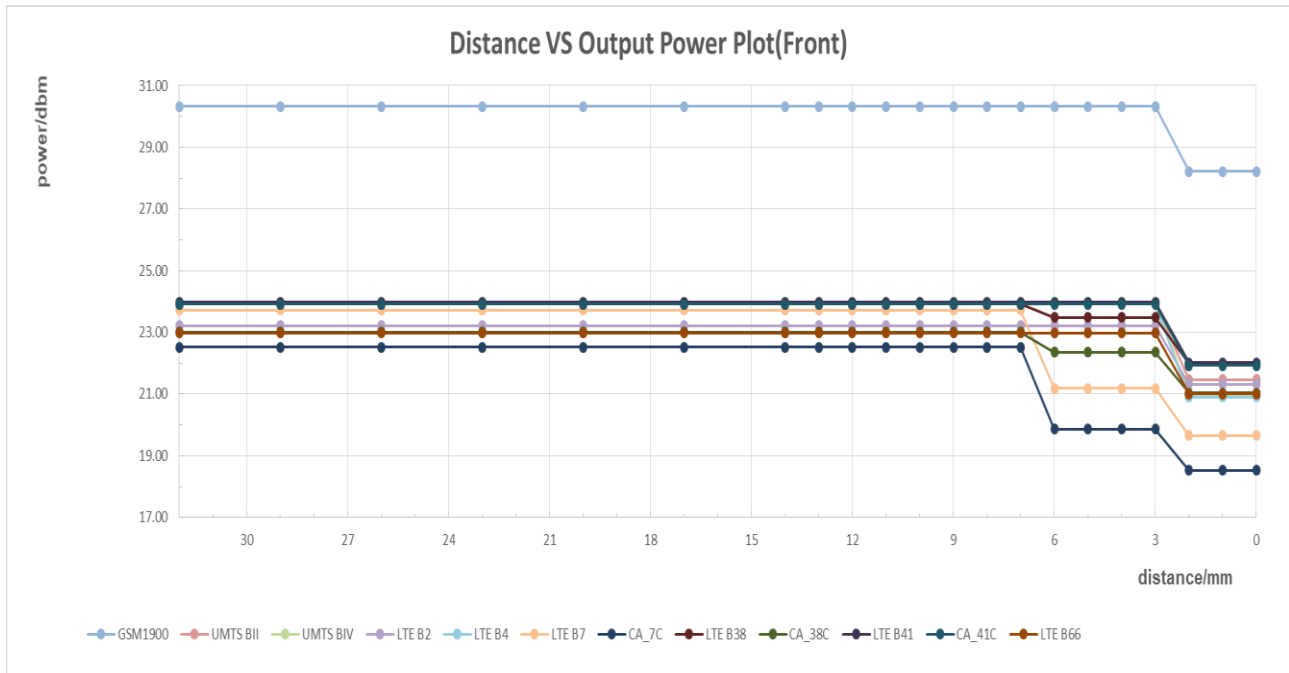
	Reduced Power Level D2	6mm	6mm	9mm	9mm	11mm	11mm
UL CA_38C	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
	Reduced Power Level D2	6mm	6mm	9mm	9mm	11mm	11mm
LTE Band 41	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
UL CA_41C	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm
LTE Band 66	Reduced Power Level D1	2mm	2mm	6mm	6mm	8mm	8mm

Note:

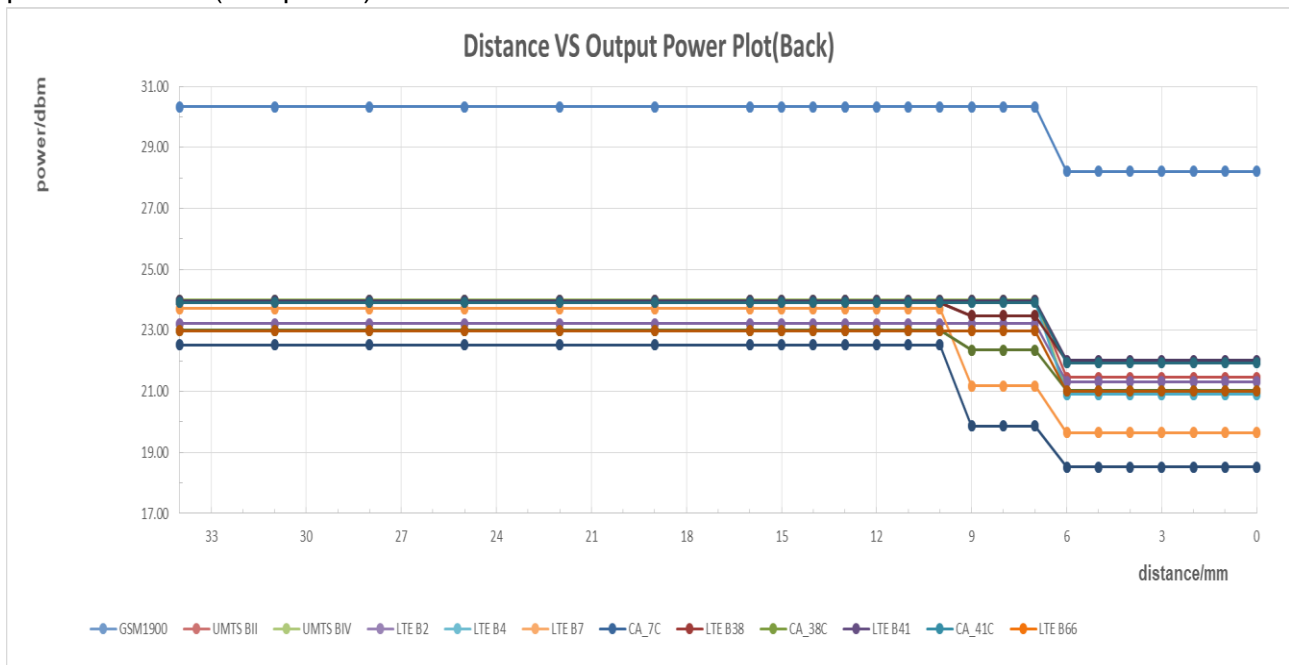
- 1) \* The sensor Trigger Distance of Reduced Power Level D4 (hotspot on) and Reduced Power Level D1 (hotspot off) are the same.
- 2) \* The sensor Trigger Distance of Reduced Power Level D5 (hotspot on) and Reduced Power Level D2 (hotspot off) are the same.

The detailed conducted power measurement data to determine the triggering distances is as below:

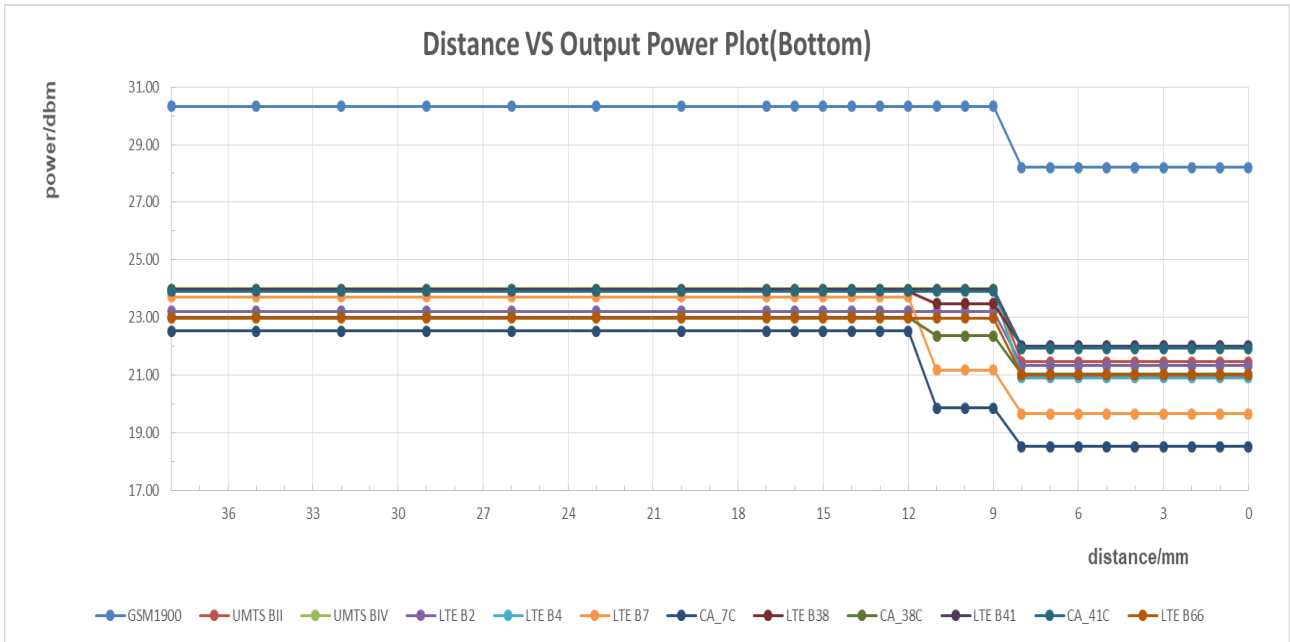
The DUT(Front side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):



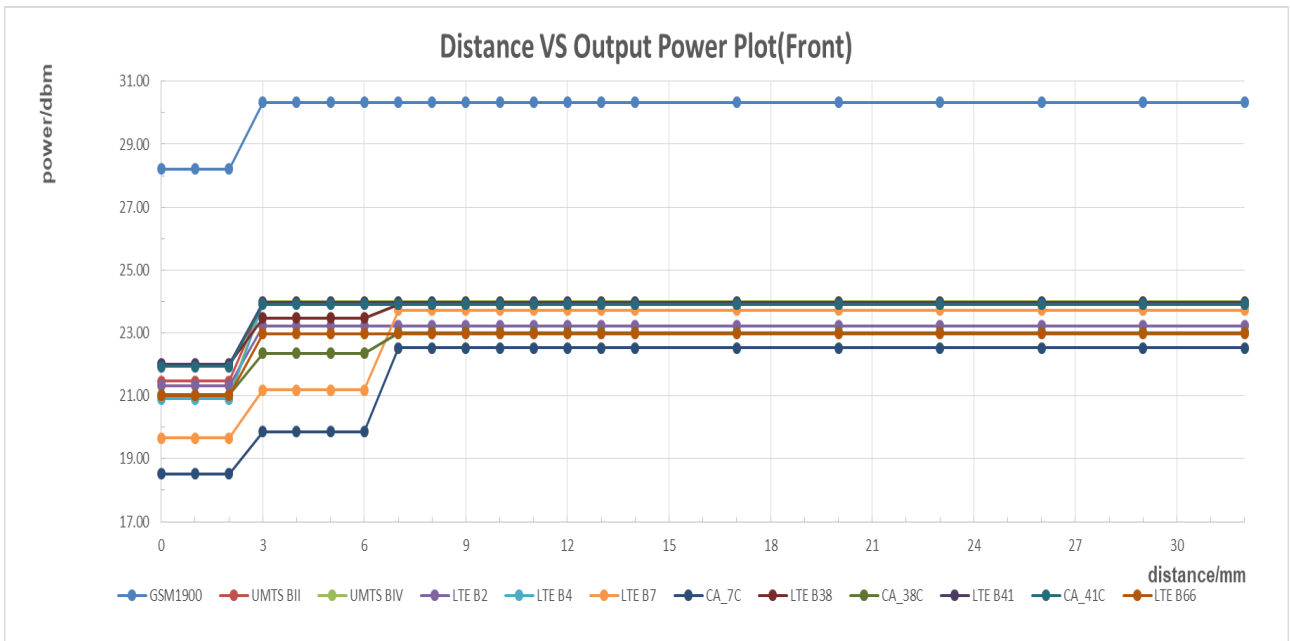
The DUT(Back side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):



The DUT(Bottom side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):

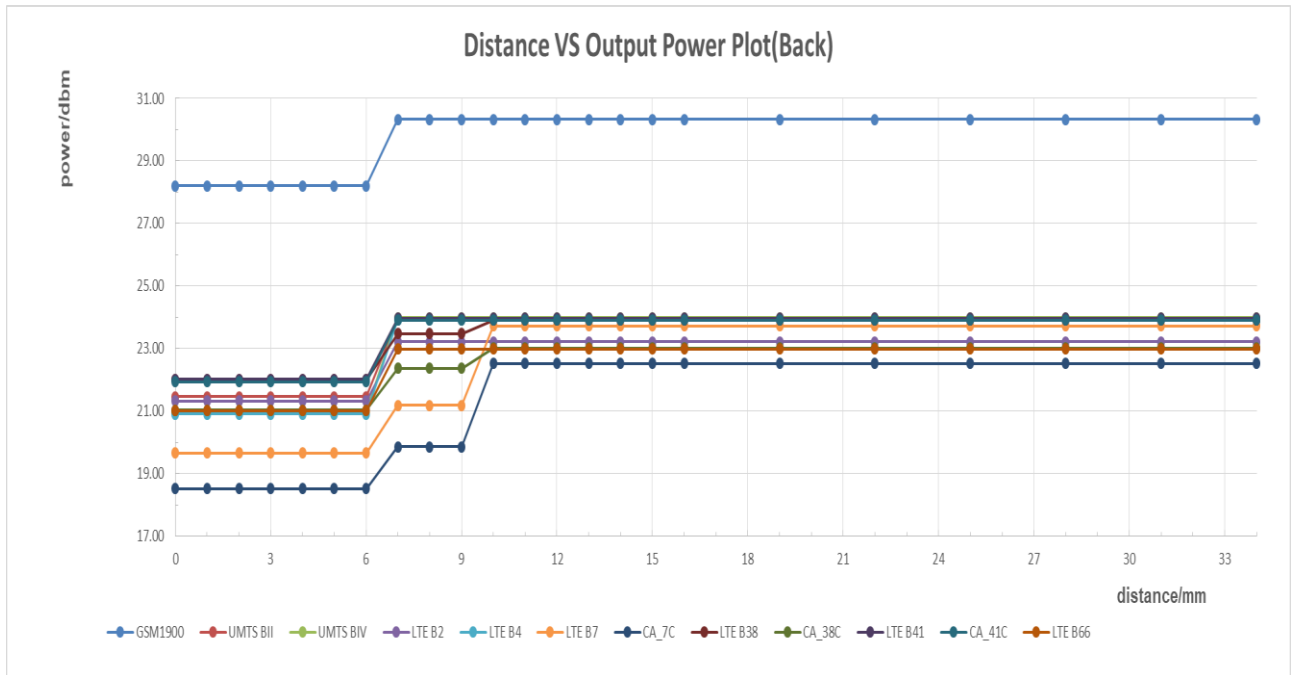


The DUT(Front side) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):

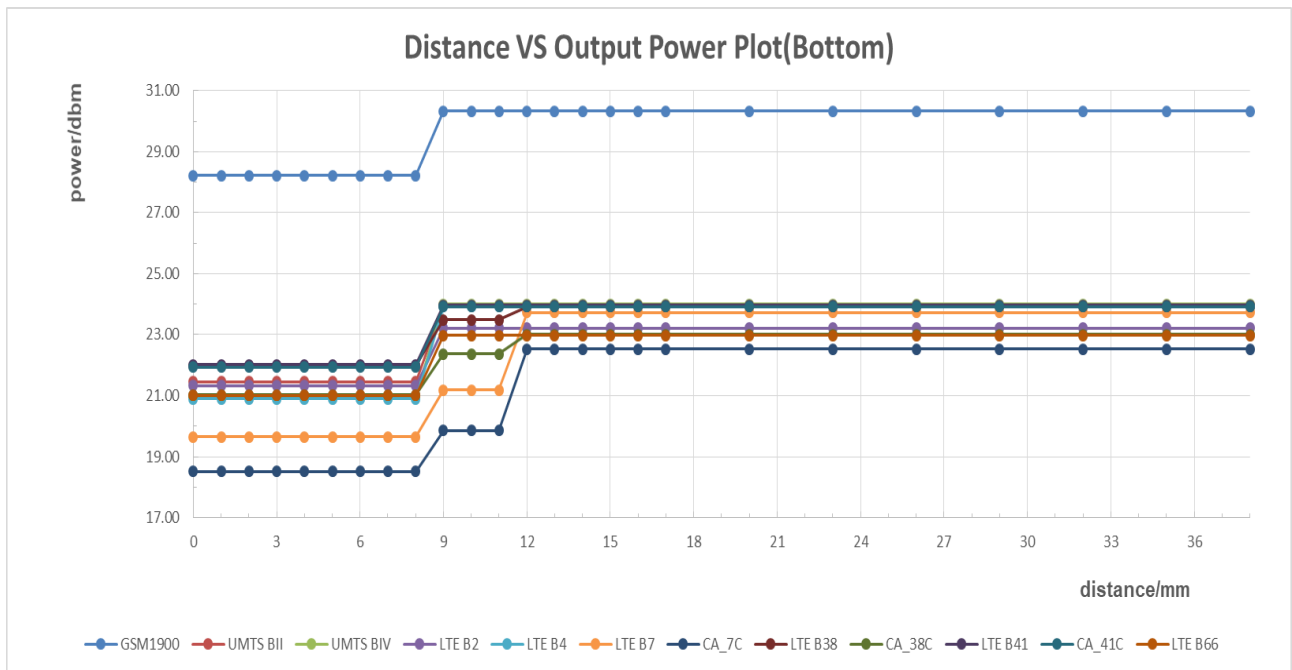




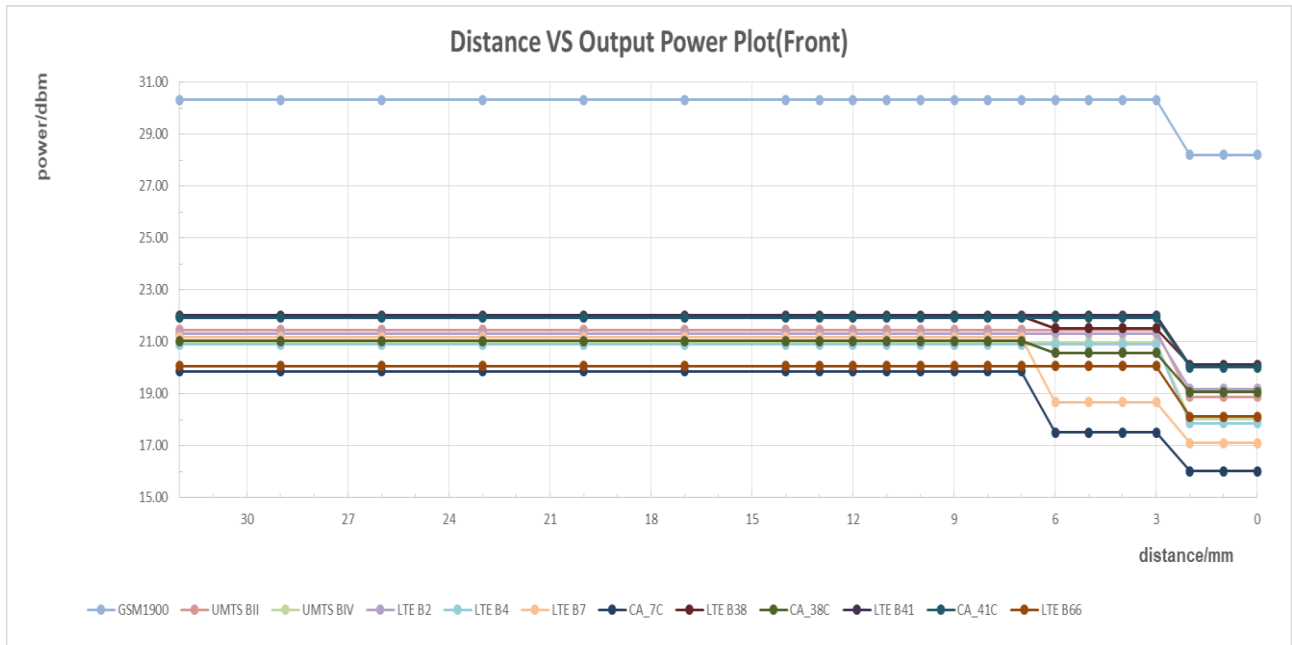
The DUT(Back side) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):



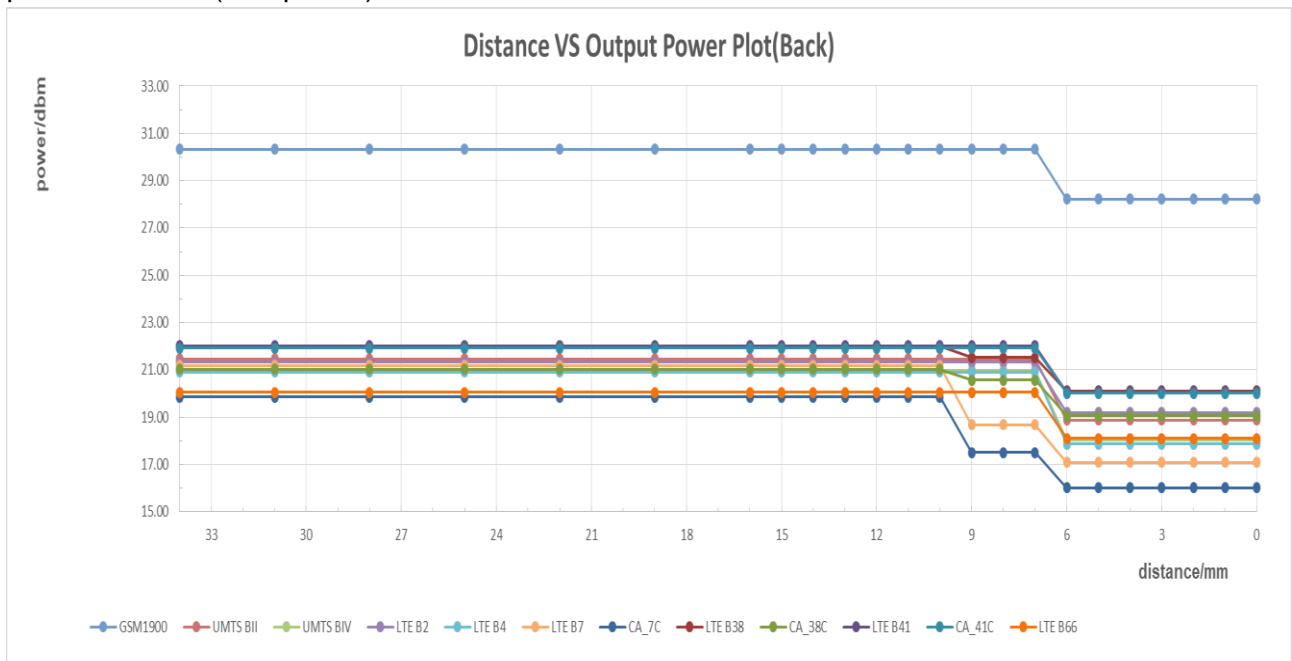
The DUT(Bottom side) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot off):



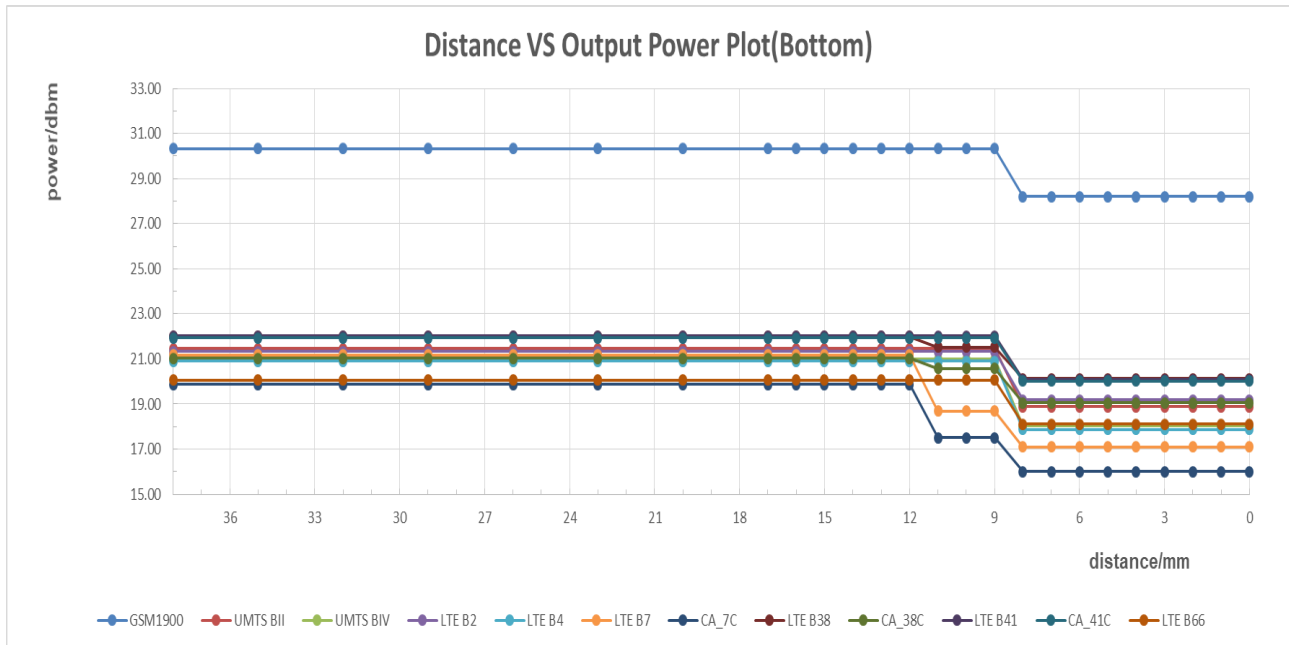
The DUT(Front side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



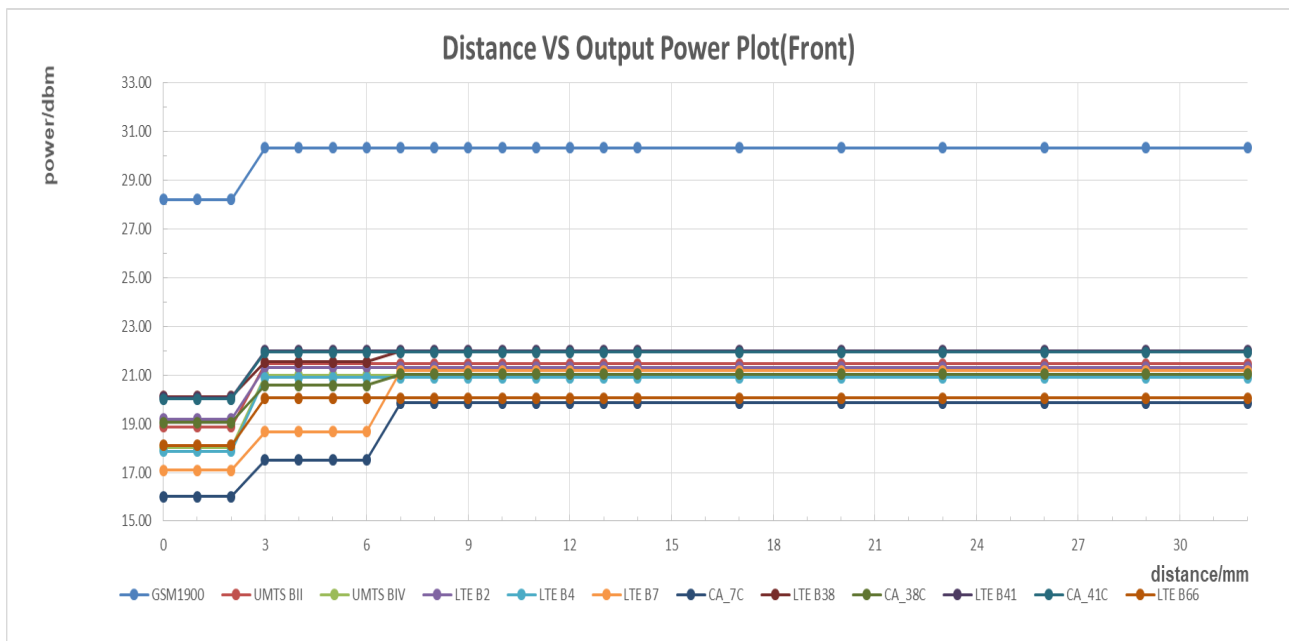
The DUT(Back side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



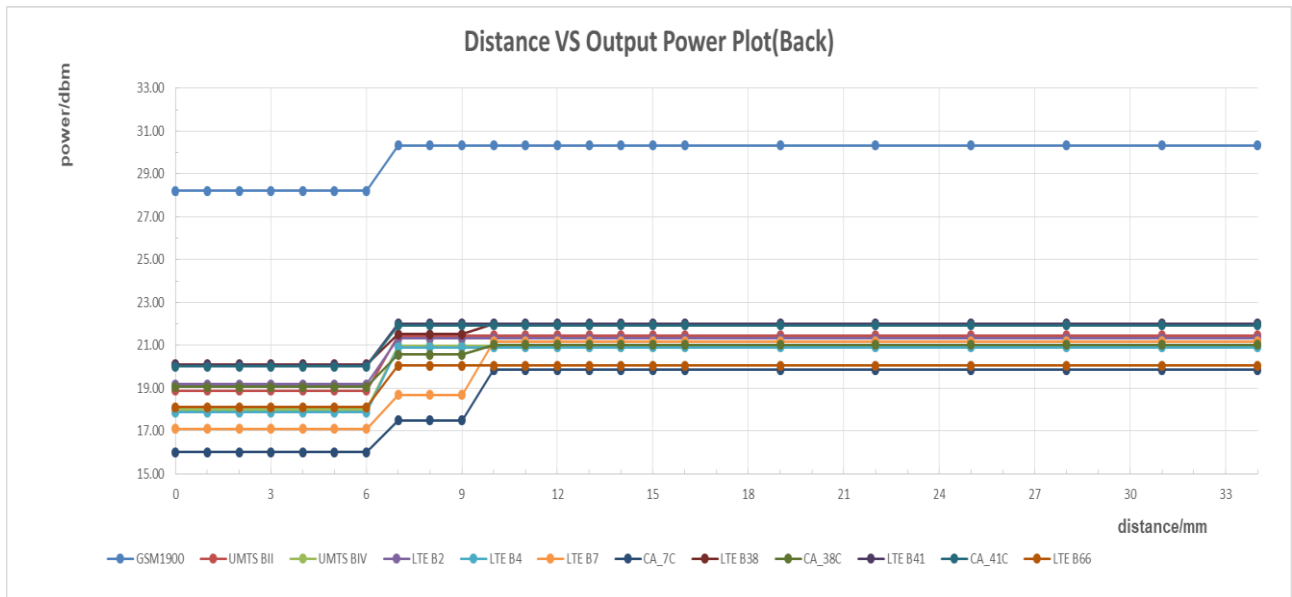
The DUT(Bottom side) is moved towards the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



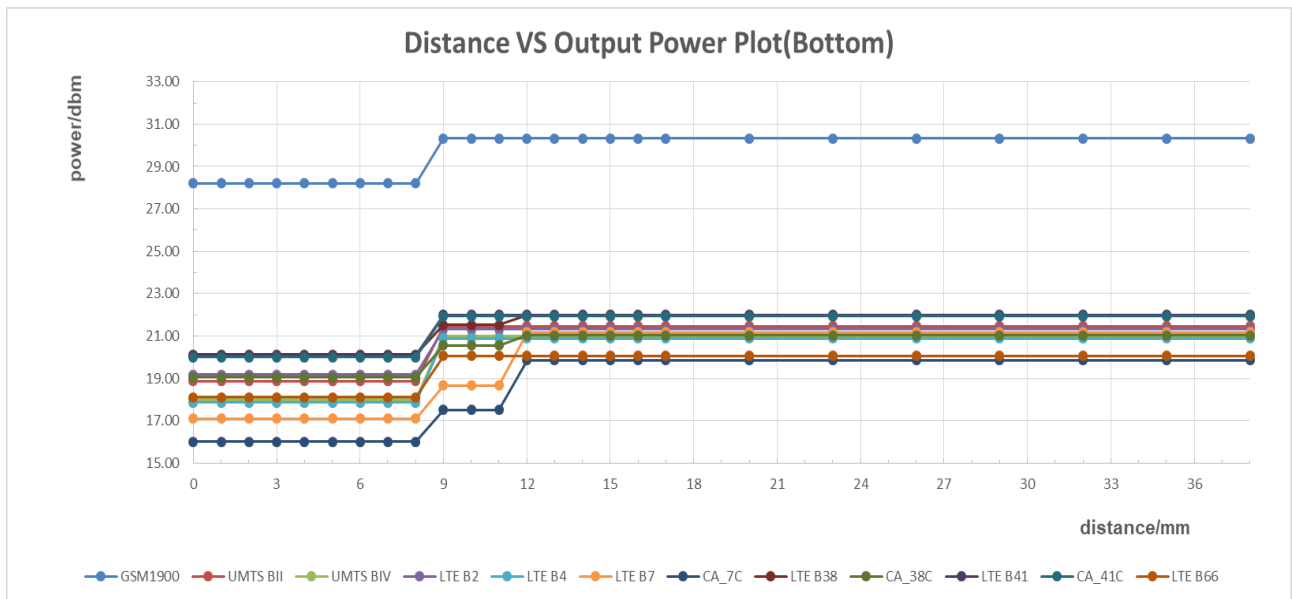
The DUT(Front side) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



The DUT(Back side) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



The DUT(Bottom) is moved away the flat phantom with/without protective cover/ wireless charging protective case (Hotspot on):



**Conclusion:** It can be ensured that the proximity sensor can be valid triggered for the body exposure condition. (GSM 1900,UMTS Band II/IV,LTE Band 2/4/7/38/41/66, UL CA\_7C, UL CA\_38C, UL CA\_41C with Main Antenna)

## 2) Procedures for determining antenna and proximity sensor coverage

According to the antenna and sensors location figure: Proximity sensor is a floating metal sheet, which cannot fully overwrite the 2G/3G/4G main antenna. So the proximity sensor coverage need to be assessed for the frequency bands and test positions supporting proximity sensor power reduction per KDB 616217:

- a) All the sides/edges (bottom side, front side and back side of the device) is positioned at a test separation distance less than or equal to the distance required for sensor triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.  
Each applicable edge should be positioned perpendicularly to the phantom to determine sensor coverage. For antennas and/or sensors located near the corner of a tablet, both adjacent edges must be considered.
- b) The similar sequence of steps applied to determine sensor triggering distance are used to verify the sensor coverage by moving the DUT(sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the side or edge and the phantom.
- c) After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the DUT movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
- d) The process is then repeated from the opposite direction, starting at the other end of the maximum antenna and sensor offset, by rotating the DUT 180° along the vertical axis.
- e) The triggering points should be documented graphically, with the antenna and sensor clearly identified, along with all relevant dimensions.
- f) If the subsequently measured peak SAR location for the antenna is not between the triggering points, established by the sensor coverage tests from opposite ends of the antenna and sensor, additional SAR tests may be required for conditions where only part of the surface or edge of the DUT corresponding to the antenna is in proximity to the user and the sensor may not be triggering as desired.

The proximity sensor coverage measurement method are as below:

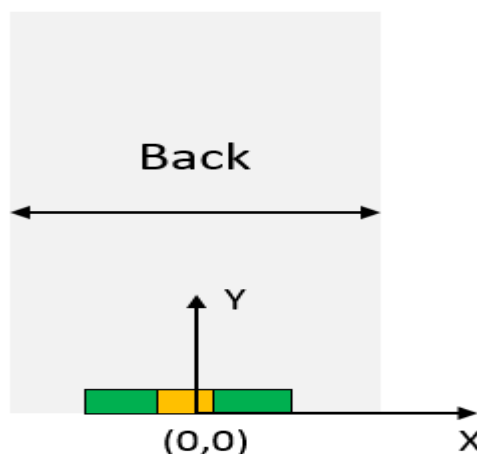


Figure: Plane coordinate system definition on the DUT

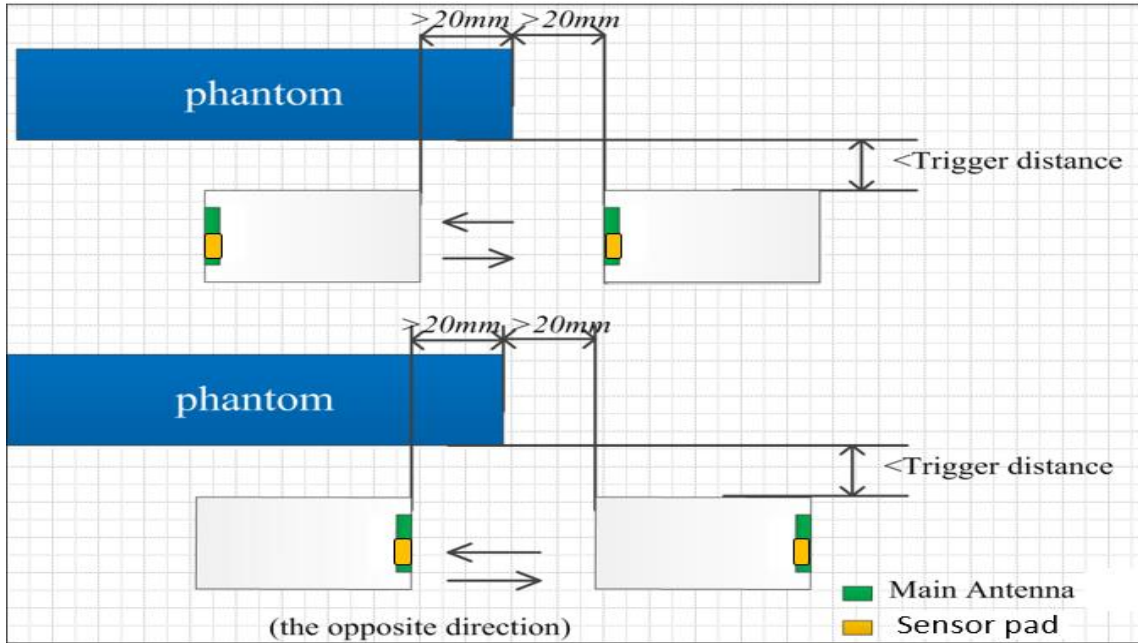


Figure: proximity sensor coverage assesment (Y coordinate direction)

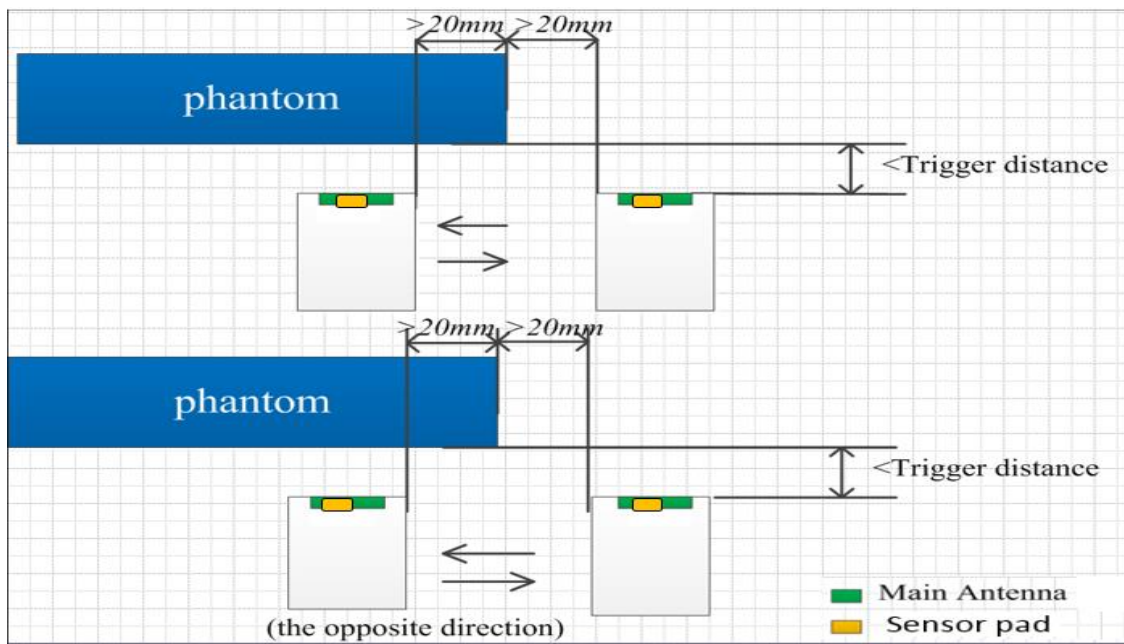
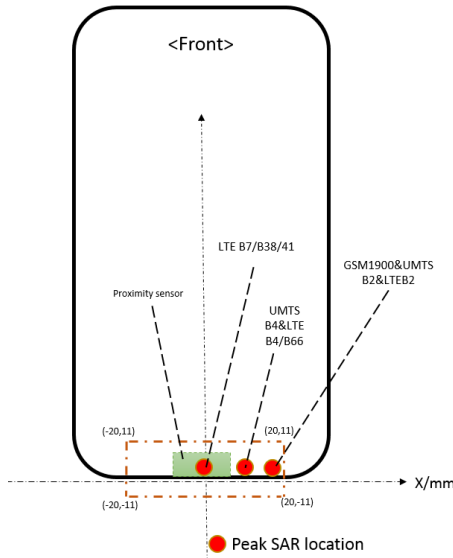
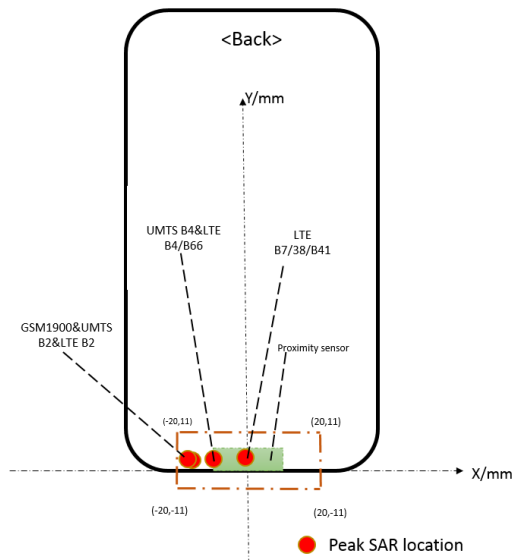


Figure: proximity sensor coverage assesment (X coordinate direction)

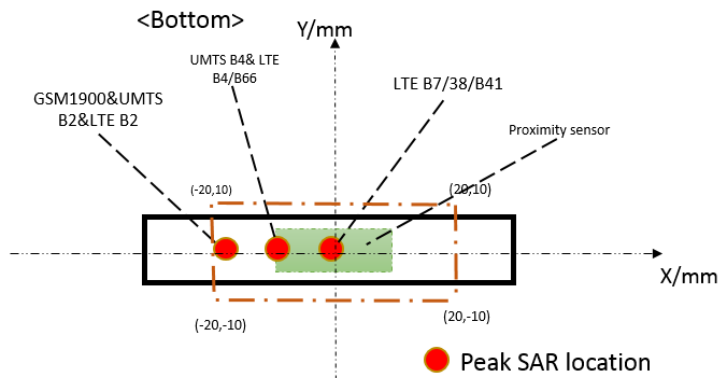
sensor coverage assesment results(Front side):



sensor coverage assesment results(Back side):



sensor coverage assesment results(Bottom side):



Conclusion: As the subsequently measured peak SAR location for the antenna is between the triggering points, additional SAR tests are not required for proximity sensor coverage per KDB 616217.

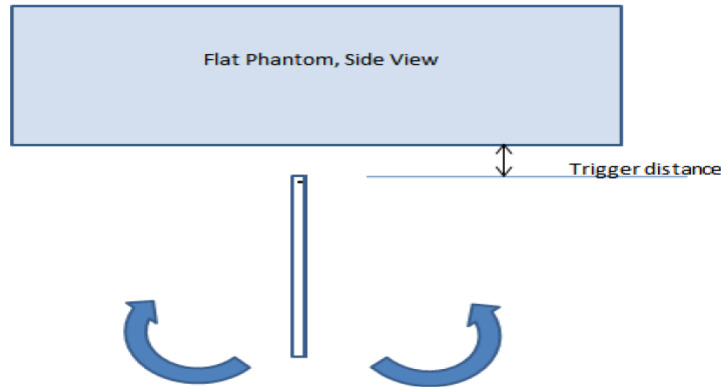


### 3) Procedures for determining device tilt angle influences to proximity sensor triggering

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with Bottom side parallel to the base of the flat phantom for each band.

The EUT was rotated about Bottom side for angles up to +/- 45°. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to +/- 45°.

The proximity sensor triggering tilt angle measurement method are as below:



**Table: Summary of Device Tilt Angle Influence to Proximity Sensor Triggering(Bottom side)**

Band(MHz)	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status											
		-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
GSM1900	8mm	on	on	on	on	on	on	on	on	on	on	on	on
UMTS Band II	8mm	on	on	on	on	on	on	on	on	on	on	on	on
UMTS Band IV	8mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 2	8mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 4	8mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 7	8mm/11mm	on	on	on	on	on	on	on	on	on	on	on	on
UL CA_7C	8mm/11mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 38	8mm/11mm	on	on	on	on	on	on	on	on	on	on	on	on
UL CA_38C	8mm/11mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 41	8mm	on	on	on	on	on	on	on	on	on	on	on	on
UL CA_41C	8mm	on	on	on	on	on	on	on	on	on	on	on	on
LTE Band 66	8mm	on	on	on	on	on	on	on	on	on	on	on	on

**Conclusion:** It can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition

## 6.10 BT Test Configuration

### BT specific wireless modes and SAR test:

The device supports a BT high power and low duty cycle feature in specific wireless modes and operating configurations. The BT of this device has three different operating modes:

- 1) Low power level mode (power level B, maximum duty cycle 100%);
- 2) High power level mode (power level A, maximum duty cycle 100%);
- 3) Sleep mode (power level A, maximum duty cycle 2%);

Note: For this device, power level B is  $\leq$  power level A.

The exposure condition related to each BT operating modes and SAR test plan are as below table according to FCC guidance:

Operating modes	Max power level	Maximum duty cycle	Exposure condition Required for SAR testing	
			Head (Audio Receiver on)	Body-worn/Hotspot/Product Specific 10-g
Low power level mode	power level B	100%	<b>Yes</b> (See Below Note 1)	<b>Yes</b> (See Below Note 1)
High power level mode	power level A	100%	N/A (See Below Note 3)	<b>Yes</b>
Sleep mode	power level A	2%	<b>Yes</b> (See Below Note 2)	Not required

**Note 1:** The BT SAR results at low power level B is still required because the simultaneous transmission possibilities for BT at lower power level B and high power level A are different. The BT SAR results at low power level B should be used to evaluation the simultaneous transmission SAR conditions not supported by BT higher power level A(Refer to Section 7.3 for details).

**Note 2:** Sleep mode (power level A, maximum duty cycle 2%) random transmission characteristics are not suitable for configuring devices to support SAR measurements in the test lab environment. So the alternative method is to test the SAR at power level A with maximum duty cycle 100% and then multiply by a duty cycle scaling factor 2%(Refer to Section 7.2 for details).

**Note 3:** High power level mode (power level A, maximum duty cycle 100%) is not applicable for Head exposure condition(Audio Receiver on) by design.

**Note 4:** Both the power level A and B results will be tested and provided in the SAR report to validate the power reduction function works(Refer to section 7.1 for detailed conducted power results). During the BT test, a test software tool (an APK) installed on the DUT is required to configure the DUT to transmit continuously at the maximum power level A using the highest transmission duty factor(100%). The APK function is only used to trigger mobile phone always transmitting power. It can be ensured that the unmodified settings in production units, including maximum output power, amplifier gain and other RF performance or tuning parameters, are used for SAR measurement.

The following setup can be used to validate the BT high power A and Low duty cycle(2%) mode:

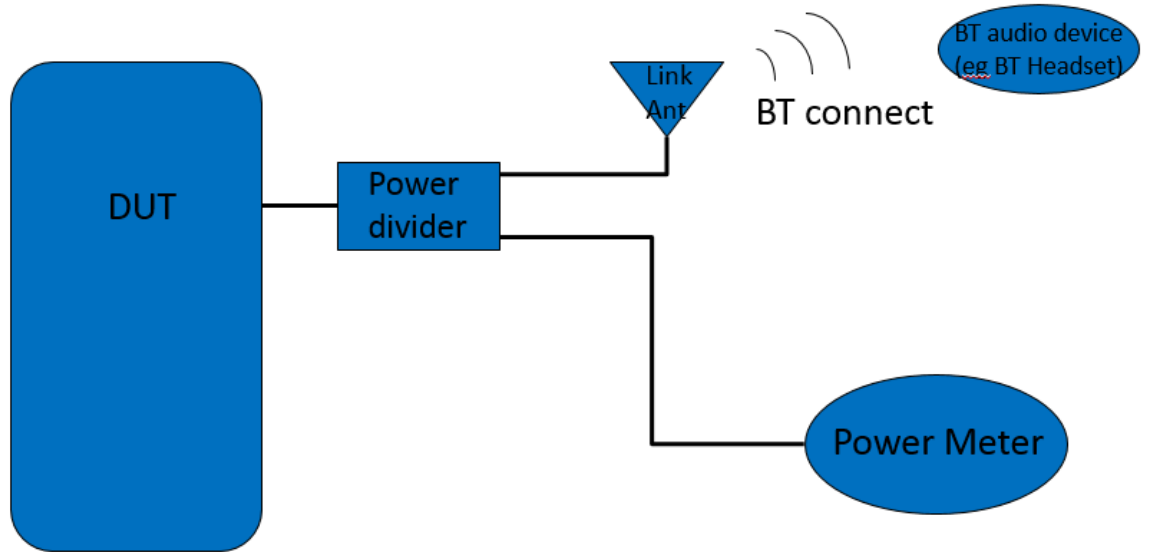


Figure: The BT Sleep mode(power level A, maximum duty cycle 2%) mode validation

BT power (power level A), maximum duty cycle 2% mode validation result:

power level A, maximum duty cycle 100%		power level A, maximum duty cycle 2% (Sleep mode)		Duty cycle Calculation
dBm	mW	dBm	mW	
15.48	35.32	-1.87	0.65	1.8%

Note: During low duty cycle mode validation, the mobile phone is connected to an external audio device that can play music and/or make calls ( eg: BT headset ,BT speaker ) via BT. Because BT works in frequency hopping mode in this real usage scenes, it is difficult to fix the channel and test the power value of each separately. Only the max average value is obtained by the power meter .

## 7 SAR Measurement Results

### 7.1 Conducted power measurements

For the measurements a Radio Communication Tester was used.

SAR drift measured at the same position in liquid before and after each SAR test as below 7.2 chapter.

Note: Radio Communication Tester measures GSM peak and average output power for active timeslots.

For SAR the timebased average power is relevant. The difference in between depends on the duty cycle of the TDMA signal :

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.1	1:2.77	1:2.08
timebased avg. power compared to slotted avg. power	-9.19dB	-6.13dB	-4.42dB	-3.18dB

The signalling modes differ as follows:

mode	coding scheme	modulation
GPRS	CS1 to CS4	GMSK
EDGE	MCS1 to MCS4	GMSK
EDGE	MCS5 to MCS9	8PSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore, one coding scheme per mode was selected for conducted power measurements.

A Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing.

The Radio Communication Tester measures LTE TDD peak and average output power for active timeslots. LTE TDD peak and average output power for active timeslots. For SAR the time-based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

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

No. of Configuration	0	1	2	3	4	5	6
Duty Cycle	<b>0.6333</b>	0.4333	0.2333	0.3167	0.2167	0.1167	0.5333
Time-based avg. power compared to slotted avg. power	<b>-1.98dB</b>	-3.63dB	-6.32dB	-4.99dB	-6.64dB	-9.33 dB	-2.73dB

Note: According to duty cycle of configuration 0 to 6, Max output power should be Configuration 0, so we just tested the conduction power and SAR of configuration 0.

### 7.1.1 Conducted power measurements of GSM850 (Second Antenna)

GSM850		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	128CH	190CH	251CH		Tune-up	128CH	190CH	251CH
		Max.					Max.			
GSM (CS)		28.70	<b>28.11</b>	<b>28.29</b>	<b>28.22</b>	-9.19	19.51	18.92	19.10	19.03
GPRS (GMSK)	1 Tx Slot	28.70	28.22	28.28	28.21	-9.19	19.51	19.03	19.09	19.02
	2 Tx Slots	26.70	<b>26.18</b>	<b>26.25</b>	<b>26.18</b>	-6.13	20.57	20.05	20.12	20.05
	3 Tx Slots	24.70	24.21	24.28	24.21	-4.42	20.28	19.79	19.86	19.79
	4 Tx Slots	22.70	22.13	22.20	22.14	-3.18	19.52	18.95	19.02	18.96
EDGE (GMSK)	1 Tx Slot	28.70	28.20	28.26	28.19	-9.19	19.51	19.01	19.07	19.00
	2 Tx Slots	26.70	26.17	26.24	26.17	-6.13	20.57	20.04	20.11	20.04
	3 Tx Slots	24.70	24.20	24.26	24.20	-4.42	20.28	19.78	19.84	19.78
	4 Tx Slots	22.70	22.10	22.19	22.13	-3.18	19.52	18.92	19.01	18.95
EDGE (8PSK)	1 Tx Slot	22.20	21.32	21.58	21.68	-9.19	13.01	12.13	12.39	12.49
	2 Tx Slots	21.20	20.22	20.43	20.55	-6.13	15.07	14.09	14.30	14.42
	3 Tx Slots	19.20	18.07	18.39	18.47	-4.42	14.78	13.65	13.97	14.05
	4 Tx Slots	18.20	16.95	17.18	17.24	-3.18	15.02	13.77	14.00	14.06

Table 18:Conducted power measurement results of GSM850(Full Power)

GSM850		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	128CH	190CH	251CH		Tune-up	128CH	190CH	251CH
		Max.					Max.			
GSM (CS)		28.20	<b>27.63</b>	<b>27.70</b>	<b>27.72</b>	-9.19	19.01	18.44	18.51	18.53
GPRS (GMSK)	1 Tx Slot	28.20	27.72	27.78	27.71	-9.19	19.01	18.53	18.59	18.52
	2 Tx Slots	26.20	25.70	25.76	25.70	-6.13	20.07	19.57	19.63	19.57
	3 Tx Slots	24.20	23.66	23.73	23.67	-4.42	19.78	19.24	19.31	19.25
	4 Tx Slots	22.20	21.63	21.71	21.65	-3.18	19.02	18.45	18.53	18.47
EDGE (GMSK)	1 Tx Slot	28.20	27.70	27.76	27.69	-9.19	19.01	18.51	18.57	18.50
	2 Tx Slots	26.20	25.68	25.76	25.69	-6.13	20.07	19.55	19.63	19.56
	3 Tx Slots	24.20	23.65	23.71	23.65	-4.42	19.78	19.23	19.29	19.23
	4 Tx Slots	22.20	21.60	21.70	21.64	-3.18	19.02	18.42	18.52	18.46
EDGE (8PSK)	1 Tx Slot	21.70	20.84	21.12	21.22	-9.19	12.51	11.65	11.93	12.03
	2 Tx Slots	20.70	19.79	19.99	20.08	-6.13	14.57	13.66	13.86	13.95
	3 Tx Slots	18.70	17.64	17.85	18.03	-4.42	14.28	13.22	13.43	13.61
	4 Tx Slots	17.70	16.55	16.77	16.83	-3.18	14.52	13.37	13.59	13.65

Table 19:Conducted power measurement results of GSM850(Reduced Power Level D1/D3)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

### 7.1.2 Conducted power measurements of GSM850 (Main Antenna)

GSM850		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	128CH	190CH	251CH		Tune-up	128CH	190CH	251CH
		Max.					Max.			
GSM (CS)		34.00	<b>33.80</b>	<b>33.86</b>	<b>33.96</b>	-9.19	24.81	24.61	24.67	24.77
GPRS (GMSK)	1 Tx Slot	34.00	33.91	33.87	33.94	-9.19	24.81	24.72	24.68	24.75
	2 Tx Slots	32.00	<b>31.52</b>	<b>31.62</b>	<b>31.72</b>	-6.13	25.87	25.39	25.49	25.59
	3 Tx Slots	30.00	29.41	29.52	29.63	-4.42	25.58	24.99	25.10	25.21
	4 Tx Slots	28.00	27.36	27.48	27.60	-3.18	24.82	24.18	24.30	24.42
EDGE (GMSK)	1 Tx Slot	34.00	33.91	33.86	33.70	-9.19	24.81	24.72	24.67	24.51
	2 Tx Slots	32.00	31.51	31.61	31.70	-6.13	25.87	25.38	25.48	25.57
	3 Tx Slots	30.00	29.41	29.52	29.62	-4.42	25.58	24.99	25.10	25.20
	4 Tx Slots	28.00	27.35	27.47	27.58	-3.18	24.82	24.17	24.29	24.40
EDGE (8PSK)	1 Tx Slot	27.50	26.45	26.72	26.90	-9.19	18.31	17.26	17.53	17.71
	2 Tx Slots	26.50	25.39	25.64	25.80	-6.13	20.37	19.26	19.51	19.67
	3 Tx Slots	24.50	23.13	23.41	23.57	-4.42	20.08	18.71	18.99	19.15
	4 Tx Slots	23.50	22.01	22.37	22.51	-3.18	20.32	18.83	19.19	19.33

Table 20: Conducted power measurement results of GSM850(Full Power)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

### 7.1.3 Conducted power measurements of GSM1900 (Second Antenna)

GSM1900		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	512CH	661CH	810CH		Tune-up	512CH	661CH	810CH
		Max.					Max.			
GSM (CS)		27.00	<b>26.17</b>	<b>26.24</b>	<b>26.09</b>	-9.19	17.81	16.98	17.05	16.90
GPRS (GMSK)	1 Tx Slot	27.00	26.16	26.25	26.09	-9.19	17.81	16.97	17.06	16.90
	2 Tx Slots	25.00	<b>24.14</b>	<b>24.24</b>	<b>24.07</b>	-6.13	18.87	18.01	18.11	17.94
	3 Tx Slots	23.00	22.09	22.21	22.04	-4.42	18.58	17.67	17.79	17.62
	4 Tx Slots	21.00	20.12	20.27	20.09	-3.18	17.82	16.94	17.09	16.91
EDGE (GMSK)	1 Tx Slot	27.00	26.14	26.24	26.10	-9.19	17.81	16.95	17.05	16.91
	2 Tx Slots	25.00	24.12	24.22	24.07	-6.13	18.87	17.99	18.09	17.94
	3 Tx Slots	23.00	22.10	22.21	22.05	-4.42	18.58	17.68	17.79	17.63
	4 Tx Slots	21.00	20.12	20.27	20.09	-3.18	17.82	16.94	17.09	16.91
EDGE (8PSK)	1 Tx Slot	22.50	21.46	21.43	21.13	-9.19	13.31	12.27	12.24	11.94
	2 Tx Slots	21.50	20.37	20.35	20.03	-6.13	15.37	14.24	14.22	13.90
	3 Tx Slots	19.50	18.33	18.40	18.06	-4.42	15.08	13.91	13.98	13.64
	4 Tx Slots	18.50	17.25	17.21	16.83	-3.18	15.32	14.07	14.03	13.65

Table 21: Conducted power measurement results of GSM1900(Full Power)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.



### 7.1.4 Conducted power measurements of GSM1900 (Main Antenna)

GSM1900		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	512CH	661CH	810CH		Tune-up	512CH	661CH	810CH
		Max.					Max.			
GSM (CS)		31.00	<b>30.32</b>	<b>30.33</b>	<b>30.14</b>	-9.19	21.81	21.13	21.14	20.95
GPRS (GMSK)	1 Tx Slot	31.00	30.28	30.34	30.14	-9.19	21.81	21.09	21.15	20.95
	2 Tx Slots	29.00	<b>28.17</b>	<b>28.19</b>	<b>28.02</b>	-6.13	22.87	22.04	22.06	21.89
	3 Tx Slots	27.00	26.16	26.15	26.01	-4.42	22.58	21.74	21.73	21.59
	4 Tx Slots	25.00	24.07	24.08	23.93	-3.18	21.82	20.89	20.90	20.75
EDGE (GMSK)	1 Tx Slot	31.00	30.25	30.29	30.11	-9.19	21.81	21.06	21.10	20.92
	2 Tx Slots	29.00	28.16	28.18	28.01	-6.13	22.87	22.03	22.05	21.88
	3 Tx Slots	27.00	26.16	26.15	26.01	-4.42	22.58	21.74	21.73	21.59
	4 Tx Slots	25.00	24.07	24.18	23.93	-3.18	21.82	20.89	21.00	20.75
EDGE (8PSK)	1 Tx Slot	26.50	25.84	25.76	25.48	-9.19	17.31	16.65	16.57	16.29
	2 Tx Slots	25.50	24.01	23.93	23.62	-6.13	19.37	17.88	17.80	17.49
	3 Tx Slots	23.50	22.01	22.02	21.70	-4.42	19.08	17.59	17.60	17.28
	4 Tx Slots	22.50	20.96	20.88	20.51	-3.18	19.32	17.78	17.70	17.33

Table 22: Conducted power measurement results of GSM1900(Full Power)

GSM1900		Burst-Averaged output Power (dBm)				Division Factors	Frame-Averaged output Power (dBm)			
		Tune-up	512CH	661CH	810CH		Tune-up	512CH	661CH	810CH
		Max.					Max.			
GSM (CS)		29.00	28.20	28.21	28.04	-9.19	19.81	19.01	19.02	18.85
GPRS (GMSK)	1 Tx Slot	29.00	28.16	28.20	28.03	-9.19	19.81	18.97	19.01	18.84
	2 Tx Slots	27.00	26.15	26.15	26.01	-6.13	20.87	20.02	20.02	19.88
	3 Tx Slots	25.00	24.17	24.17	24.02	-4.42	20.58	19.75	19.75	19.60
	4 Tx Slots	23.00	22.22	22.19	22.09	-3.18	19.82	19.04	19.01	18.91
EDGE (GMSK)	1 Tx Slot	29.00	28.15	28.17	28.01	-9.19	19.81	18.96	18.98	18.82
	2 Tx Slots	27.00	26.15	26.15	26.01	-6.13	20.87	20.02	20.02	19.88
	3 Tx Slots	25.00	24.16	24.18	24.03	-4.42	20.58	19.74	19.76	19.61
	4 Tx Slots	23.00	22.22	22.20	22.09	-3.18	19.82	19.04	19.02	18.91
EDGE (8PSK)	1 Tx Slot	24.50	23.29	23.14	23.10	-9.19	15.31	14.10	13.95	13.91
	2 Tx Slots	23.50	23.31	23.27	21.81	-6.13	17.37	17.18	17.14	15.68
	3 Tx Slots	21.50	20.12	21.24	20.39	-4.42	17.08	15.70	16.82	15.97
	4 Tx Slots	20.50	19.78	18.95	18.59	-3.18	17.32	16.60	15.77	15.41

Table 23: Conducted power measurement results of GSM1900(Reduced Power Level D1/D4)

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) Per KDB941225 D01, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

### 7.1.5 Conducted power measurements of UMTS Band II (Second Antenna)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	22.50	<b>21.68</b>	<b>21.55</b>	<b>21.45</b>
	12.2kbps AMR	22.50	21.67	21.52	21.41
HSDPA	Subtest 1	22.00	21.21	21.11	21.01
	Subtest 2	21.50	20.42	20.29	20.16
	Subtest 3	21.00	19.91	19.77	19.67
	Subtest 4	21.00	19.89	19.77	19.66
HSUPA	Subtest 1	22.50	19.78	19.74	19.58
	Subtest 2	20.50	17.65	16.84	16.73
	Subtest 3	21.50	18.49	18.59	17.60
	Subtest 4	20.50	17.43	17.12	16.91
	Subtest 5	22.50	19.67	19.54	19.42
DC-HSDPA	Subtest 1	22.00	21.21	21.08	20.97
	Subtest 2	21.50	20.38	20.33	20.20
	Subtest 3	21.00	19.87	19.80	19.64
	Subtest 4	21.00	19.85	19.77	19.70

Table 24: Conducted power measurement results of UMTS Band II(Full Power)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	16.50	<b>15.64</b>	<b>15.57</b>	<b>15.43</b>
	12.2kbps AMR	16.50	15.68	15.50	15.41
HSDPA	Subtest 1	16.00	15.24	15.12	15.01
	Subtest 2	15.50	14.94	14.72	14.75
	Subtest 3	15.00	14.37	14.15	14.21
	Subtest 4	15.00	14.34	14.14	14.19
HSUPA	Subtest 1	16.50	14.45	14.58	14.47
	Subtest 2	14.50	11.58	11.88	11.78
	Subtest 3	15.50	13.23	12.50	12.67
	Subtest 4	14.50	12.28	12.05	12.01
	Subtest 5	16.50	14.23	14.00	13.89
DC-HSDPA	Subtest 1	16.00	15.24	15.12	15.05
	Subtest 2	15.50	14.94	14.72	14.72
	Subtest 3	15.00	14.33	14.11	14.17
	Subtest 4	15.00	14.38	14.14	14.23

Table 25: Conducted power measurement results of UMTS Band II(Reduced Power Level D1)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	12.00	11.64	11.76	11.65
	12.2kbps AMR	12.00	11.82	11.86	11.74
HSDPA	Subtest 1	11.50	11.33	11.34	11.19
	Subtest 2	11.00	10.54	10.47	10.41
	Subtest 3	10.50	9.98	9.92	9.80
	Subtest 4	10.50	9.95	9.92	9.78
HSUPA	Subtest 1	12.00	11.31	11.63	11.32
	Subtest 2	10.00	7.61	7.09	6.93
	Subtest 3	11.00	8.33	8.66	7.74
	Subtest 4	10.00	7.25	7.36	7.04
DC-HSDPA	Subtest 1	11.50	11.29	11.38	11.15
	Subtest 2	11.00	10.50	10.44	10.41
	Subtest 3	10.50	9.94	9.88	9.80
	Subtest 4	10.50	9.99	9.96	9.82

Table 26: Conducted power measurement results of UMTS Band II(Reduced Power Level D3)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	18.00	<b>17.23</b>	<b>17.08</b>	<b>16.98</b>
	12.2kbps AMR	18.00	17.21	17.08	16.98
HSDPA	Subtest 1	17.50	16.74	16.61	16.49
	Subtest 2	17.00	15.96	15.79	15.69
	Subtest 3	16.50	15.44	15.28	15.21
	Subtest 4	16.50	15.39	15.34	15.19
HSUPA	Subtest 1	18.00	15.44	15.54	15.38
	Subtest 2	16.00	13.44	12.81	12.82
	Subtest 3	17.00	14.29	14.54	13.69
	Subtest 4	16.00	13.17	13.14	12.90
DC-HSDPA	Subtest 1	17.50	16.74	16.57	16.53
	Subtest 2	17.00	16.00	15.79	15.65
	Subtest 3	16.50	15.40	15.31	15.21
	Subtest 4	16.50	15.39	15.38	15.19

Table 27: Conducted power measurement results of UMTS Band II(Reduced Power Level D2)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.6 Conducted power measurements of UMTS Band II (Main Antenna)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	25.00	<b>24.05</b>	<b>23.96</b>	<b>23.85</b>
	12.2kbps AMR	25.00	24.09	23.94	23.84
HSDPA	Subtest 1	24.00	23.46	23.45	23.36
	Subtest 2	23.50	22.59	22.65	22.57
	Subtest 3	23.00	22.10	22.14	22.06
	Subtest 4	23.00	22.09	22.13	22.03
HSUPA	Subtest 1	25.00	22.18	22.30	21.86
	Subtest 2	23.00	19.40	19.18	19.92
	Subtest 3	24.00	20.34	19.96	20.68
	Subtest 4	23.00	20.32	20.04	19.24
	Subtest 5	25.00	22.08	21.95	21.85
DC-HSDPA	Subtest 1	24.00	23.50	23.49	23.36
	Subtest 2	23.50	22.63	22.65	22.61
	Subtest 3	23.00	22.10	22.14	22.06
	Subtest 4	23.00	22.13	22.09	22.03

Table 28: Conducted power measurement results of UMTS Band II(Full Power)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	22.50	<b>21.46</b>	<b>21.46</b>	<b>21.35</b>
	12.2kbps AMR	22.50	21.52	21.43	21.32
HSDPA	Subtest 1	21.50	20.91	20.93	20.85
	Subtest 2	21.00	20.06	20.12	20.03
	Subtest 3	20.50	19.58	19.63	19.55
	Subtest 4	20.50	19.54	19.62	19.54
HSUPA	Subtest 1	22.50	19.58	19.20	19.73
	Subtest 2	20.50	17.29	17.04	16.83
	Subtest 3	21.50	18.09	17.84	17.50
	Subtest 4	20.50	17.14	17.73	17.08
	Subtest 5	22.50	19.55	19.45	19.34
DC-HSDPA	Subtest 1	21.50	20.95	20.97	20.81
	Subtest 2	21.00	20.10	20.16	20.07
	Subtest 3	20.50	19.62	19.67	19.55
	Subtest 4	20.50	19.50	19.66	19.57

Table 29: Conducted power measurement results of UMTS Band II(Reduced Power Level D1/D3/D5)

UMTS Band II		Tune-up	Channel	Channel	Channel
		Max.	9262CH	9400CH	9538CH
WCDMA	12.2kbps RMC	20.00	19.01	18.88	18.91
	12.2kbps AMR	20.00	19.05	18.93	18.87
HSDPA	Subtest 1	19.00	18.59	18.43	18.36
	Subtest 2	18.50	17.79	17.65	17.56
	Subtest 3	18.00	17.27	17.14	17.07
	Subtest 4	18.00	17.28	17.16	17.06
HSUPA	Subtest 1	20.00	17.37	17.30	17.22
	Subtest 2	18.00	15.44	14.67	14.77
	Subtest 3	19.00	16.25	15.46	15.34
	Subtest 4	18.00	15.18	15.09	14.81
	Subtest 5	20.00	17.10	16.97	16.87
DC-HSDPA	Subtest 1	19.00	18.55	18.43	18.36
	Subtest 2	18.50	17.79	17.69	17.52
	Subtest 3	18.00	17.23	17.10	17.07
	Subtest 4	18.00	17.28	17.20	17.10

Table 30: Conducted power measurement results of UMTS Band II(Reduced Power Level D4)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.7 Conducted power measurements of UMTS Band IV (Second Antenna)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	23.00	<b>22.15</b>	<b>22.03</b>	<b>22.06</b>
	12.2kbps AMR	23.00	22.16	22.08	22.09
HSDPA	Subtest 1	22.50	21.66	21.57	21.55
	Subtest 2	22.00	20.84	20.79	20.80
	Subtest 3	21.50	20.33	20.30	20.28
	Subtest 4	21.50	20.32	20.25	20.28
HSUPA	Subtest 1	23.00	20.00	19.91	20.19
	Subtest 2	21.00	18.10	17.33	17.58
	Subtest 3	22.00	19.19	18.89	18.95
	Subtest 4	21.00	17.71	18.15	18.12
	Subtest 5	23.00	20.15	20.08	20.09
DC-HSDPA	Subtest 1	22.50	21.72	21.65	21.62
	Subtest 2	22.00	20.85	20.86	20.87
	Subtest 3	21.50	20.39	20.36	20.28
	Subtest 4	21.50	20.41	20.34	20.36

Table 31: Conducted power measurement results of UMTS Band IV(Full Power)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	15.50	<b>14.65</b>	<b>14.54</b>	<b>14.53</b>
	12.2kbps AMR	15.50	14.66	14.57	14.59
HSDPA	Subtest 1	15.00	14.10	14.05	14.07
	Subtest 2	14.50	13.35	13.32	13.29
	Subtest 3	14.00	12.82	12.80	12.76
	Subtest 4	14.00	12.83	12.80	12.80
HSUPA	Subtest 1	15.50	14.39	14.31	14.37
	Subtest 2	13.50	10.48	10.31	10.52
	Subtest 3	14.50	11.28	10.81	11.73
	Subtest 4	13.50	10.04	9.98	9.96
	Subtest 5	15.50	14.67	14.61	14.60
DC-HSDPA	Subtest 1	15.00	14.18	14.12	14.09
	Subtest 2	14.50	13.35	13.39	13.29
	Subtest 3	14.00	12.85	12.86	12.83
	Subtest 4	14.00	12.93	12.88	12.80

Table 32: Conducted power measurement results of UMTS Band IV(Reduced Power Level D1)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	12.00	10.66	10.55	10.57
	12.2kbps AMR	12.00	10.69	10.59	10.61
HSDPA	Subtest 1	11.50	10.14	10.04	10.06
	Subtest 2	11.00	9.33	9.28	9.28
	Subtest 3	10.50	8.81	8.79	8.71
	Subtest 4	10.50	8.81	8.79	8.72
HSUPA	Subtest 1	12.00	10.87	10.46	10.62
	Subtest 2	10.00	7.61	6.41	7.63
	Subtest 3	11.00	8.40	7.88	7.91
	Subtest 4	10.00	7.15	6.21	7.03
DC-HSDPA	Subtest 1	11.50	10.14	10.00	10.02
	Subtest 2	11.00	9.30	9.32	9.24
	Subtest 3	10.50	8.81	8.83	8.71
	Subtest 4	10.50	8.78	8.75	8.69

Table 33: Conducted power measurement results of UMTS Band IV(Reduced Power Level D3)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	19.00	<b>18.16</b>	<b>18.06</b>	<b>18.07</b>
	12.2kbps AMR	19.00	18.15	18.08	18.10
HSDPA	Subtest 1	18.50	17.64	17.57	17.51
	Subtest 2	18.00	16.82	16.80	16.82
	Subtest 3	17.50	16.31	16.28	16.31
	Subtest 4	17.50	16.31	16.32	16.30
HSUPA	Subtest 1	19.00	16.43	16.17	16.19
	Subtest 2	17.00	14.19	13.11	13.36
	Subtest 3	18.00	14.78	14.59	14.59
	Subtest 4	17.00	13.80	13.82	13.76
DC-HSDPA	Subtest 1	18.50	17.64	17.53	17.51
	Subtest 2	18.00	16.82	16.84	16.82
	Subtest 3	17.50	16.27	16.24	16.35
	Subtest 4	17.50	16.27	16.36	16.26

Table 34: Conducted power measurement results of UMTS Band IV(Reduced Power Level D2)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.8 Conducted power measurements of UMTS Band IV (Main Antenna)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	25.00	<b>24.13</b>	<b>23.99</b>	<b>24.04</b>
	12.2kbps AMR	25.00	24.10	24.05	24.07
HSDPA	Subtest 1	24.00	23.60	23.50	23.51
	Subtest 2	23.50	22.79	22.67	22.73
	Subtest 3	23.00	22.29	22.21	22.24
	Subtest 4	23.00	22.28	22.23	22.22
HSUPA	Subtest 1	25.00	22.13	21.80	22.48
	Subtest 2	23.00	19.46	19.68	19.60
	Subtest 3	24.00	20.32	20.41	20.57
	Subtest 4	23.00	20.32	19.90	20.19
	Subtest 5	25.00	22.08	21.99	22.04
DC-HSDPA	Subtest 1	24.00	23.60	23.54	23.55
	Subtest 2	23.50	22.75	22.67	22.76
	Subtest 3	23.00	22.25	22.21	22.21
	Subtest 4	23.00	22.31	22.23	22.22

Table 35: Conducted power measurement results of UMTS Band IV(Full Power)

UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	22.00	<b>21.10</b>	<b>20.99</b>	<b>21.03</b>
	12.2kbps AMR	22.00	21.04	21.02	21.07
HSDPA	Subtest 1	21.00	20.55	20.48	20.51
	Subtest 2	20.50	19.79	19.69	19.69
	Subtest 3	20.00	19.26	19.20	19.24
	Subtest 4	20.00	19.27	19.21	19.23
HSUPA	Subtest 1	22.00	19.36	19.30	19.23
	Subtest 2	20.00	17.15	16.25	16.87
	Subtest 3	21.00	17.95	16.85	17.86
	Subtest 4	20.00	16.91	16.32	16.33
	Subtest 5	22.00	19.03	18.98	19.00
DC-HSDPA	Subtest 1	21.00	20.59	20.44	20.51
	Subtest 2	20.50	19.82	19.65	19.73
	Subtest 3	20.00	19.22	19.20	19.28
	Subtest 4	20.00	19.23	19.18	19.27

Table 36: Conducted power measurement results of UMTS Band IV(Reduced Power Level D1/D3/D5)



UMTS Band IV		Tune-up	Channel	Channel	Channel
		Max.	1312CH	1413CH	1513CH
WCDMA	12.2kbps RMC	19.00	18.10	18.02	18.04
	12.2kbps AMR	19.00	18.06	18.01	18.09
HSDPA	Subtest 1	18.00	17.58	17.51	17.53
	Subtest 2	17.50	16.77	16.73	16.75
	Subtest 3	17.00	16.27	16.22	16.21
	Subtest 4	17.00	16.26	16.18	16.22
HSUPA	Subtest 1	19.00	16.29	16.15	16.19
	Subtest 2	17.00	13.55	13.12	13.90
	Subtest 3	18.00	14.40	14.50	14.45
	Subtest 4	17.00	13.37	13.25	13.35
	Subtest 5	19.00	16.07	16.03	16.06
DC-HSDPA	Subtest 1	18.00	17.54	17.47	17.57
	Subtest 2	17.50	16.81	16.69	16.71
	Subtest 3	17.00	16.27	16.25	16.17
	Subtest 4	17.00	16.26	16.22	16.22

Table 37: Conducted power measurement results of UMTS Band IV (Reduced Power Level D4)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.9 Conducted power measurements of UMTS Band V (Second Antenna)

UMTS Band V		Tune-up	Channel	Channel	Channel
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	24.70	<b>24.30</b>	<b>24.30</b>	<b>24.28</b>
	12.2kbps AMR	24.70	24.29	24.32	24.30
HSDPA	Subtest 1	24.20	23.80	23.81	23.75
	Subtest 2	23.70	23.32	23.30	23.30
	Subtest 3	23.20	22.92	22.92	22.90
	Subtest 4	23.20	22.93	22.89	22.88
HSUPA	Subtest 1	24.70	23.19	23.37	23.37
	Subtest 2	22.70	20.76	20.11	20.18
	Subtest 3	23.70	21.21	21.34	21.22
	Subtest 4	22.70	20.08	20.81	20.67
	Subtest 5	24.70	22.29	22.27	22.25
DC-HSDPA	Subtest 1	24.20	23.86	23.98	23.92
	Subtest 2	23.70	23.12	23.34	23.20
	Subtest 3	23.20	22.99	23.03	23.03
	Subtest 4	23.20	22.93	22.86	22.74

Table 38: Conducted power measurement results of UMTS Band V(Full Power)

UMTS Band V		Tune-up	Channel	Channel	Channel
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	18.20	<b>17.76</b>	<b>17.80</b>	<b>17.81</b>
	12.2kbps AMR	18.20	17.82	17.80	17.81
HSDPA	Subtest 1	17.70	17.34	17.31	17.28
	Subtest 2	17.20	16.81	16.81	16.80
	Subtest 3	16.70	16.42	16.39	16.41
	Subtest 4	16.70	16.42	16.42	16.38
HSUPA	Subtest 1	18.20	15.48	15.15	16.72
	Subtest 2	16.20	13.01	12.75	12.78
	Subtest 3	17.20	14.39	13.89	13.78
	Subtest 4	16.20	13.26	13.24	13.21
	Subtest 5	18.20	15.28	15.32	15.39
DC-HSDPA	Subtest 1	17.70	17.22	17.14	17.41
	Subtest 2	17.20	16.70	16.74	16.81
	Subtest 3	16.70	16.36	16.48	16.39
	Subtest 4	16.70	16.50	16.54	16.42

Table 39: Conducted power measurement results of UMTS Band V(Reduced Power Level D1)

UMTS Band V		Tune-up	Channel	Channel	Channel
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	15.20	14.81	14.80	14.77
	12.2kbps AMR	15.20	14.80	14.78	14.76
HSDPA	Subtest 1	14.70	14.30	14.29	14.22
	Subtest 2	14.20	13.79	13.81	13.79
	Subtest 3	13.70	13.36	13.40	13.42
	Subtest 4	13.70	13.40	13.40	13.37
HSUPA	Subtest 1	15.20	14.30	13.86	13.83
	Subtest 2	13.20	10.23	9.83	9.86
	Subtest 3	14.20	11.62	10.97	10.83
	Subtest 4	13.20	10.48	10.30	10.27
	Subtest 5	15.20	14.28	14.50	14.54
DC-HSDPA	Subtest 1	14.70	14.27	14.30	14.17
	Subtest 2	14.20	13.70	13.80	13.92
	Subtest 3	13.70	13.46	13.40	13.40
	Subtest 4	13.70	13.41	13.39	13.33

Table 40: Conducted power measurement results of UMTS Band V(Reduced Power Level D3)

UMTS Band V		Tune-up	Channel	Channel	Channel
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	21.70	<b>21.31</b>	<b>21.30</b>	<b>21.27</b>
	12.2kbps AMR	21.70	21.32	21.32	21.28
HSDPA	Subtest 1	21.20	20.83	20.81	20.78
	Subtest 2	20.70	20.32	20.31	20.32
	Subtest 3	20.20	19.92	19.90	19.90
	Subtest 4	20.20	19.95	19.94	19.88
HSUPA	Subtest 1	21.70	20.30	19.82	20.24
	Subtest 2	19.70	17.66	17.36	17.25
	Subtest 3	20.70	18.35	18.59	18.42
	Subtest 4	19.70	18.09	17.97	17.77
	Subtest 5	21.70	19.28	19.29	19.27
DC-HSDPA	Subtest 1	21.20	20.84	20.68	20.73
	Subtest 2	20.70	20.19	20.43	20.30
	Subtest 3	20.20	20.02	19.81	19.82
	Subtest 4	20.20	20.10	19.94	19.69

Table 41: Conducted power measurement results of UMTS Band V(Reduced Power Level D2)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.10 Conducted power measurements of UMTS Band V (Main Antenna)

UMTS Band V		Tune-up	Channel	Channel	Channel
		Max.	4132CH	4182CH	4233CH
WCDMA	12.2kbps RMC	25.00	<b>24.40</b>	<b>24.39</b>	<b>24.34</b>
	12.2kbps AMR	25.00	24.45	24.37	24.33
HSDPA	Subtest 1	24.50	23.91	23.87	23.80
	Subtest 2	24.00	23.43	23.40	23.36
	Subtest 3	23.50	22.89	22.97	22.98
	Subtest 4	23.50	22.92	22.99	22.96
HSUPA	Subtest 1	25.00	23.47	23.62	23.51
	Subtest 2	23.00	20.41	20.62	20.53
	Subtest 3	24.00	21.27	21.48	21.41
	Subtest 4	23.00	20.32	20.76	20.89
	Subtest 5	25.00	22.40	22.34	22.31
DC-HSDPA	Subtest 1	24.50	23.90	23.86	23.97
	Subtest 2	24.00	23.52	23.45	23.55
	Subtest 3	23.50	22.87	23.12	22.97
	Subtest 4	23.50	22.84	23.19	23.07

Table 42: Conducted power measurement results of UMTS Band V(Full Power)

Note:

- 1) The bolded 12.2kbps RMC mode was selected for SAR testing (the primary mode).
- 2) Per KDB941225 D01, When the maximum output power and tune-up tolerance specified for production units in a Second mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest *reported* SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of Second to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the Second mode.

### 7.1.11 Conducted power measurements of LTE Band 2 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	21.70	20.61	20.58	20.65
		1	3	21.70	20.42	20.64	20.37
		1	5	21.70	20.56	20.65	20.40
		3	0	21.70	20.35	20.57	20.50
		3	2	21.70	20.25	20.44	20.43
		3	3	21.70	20.43	20.55	20.42
		6	0	21.70	20.45	20.60	20.46
	16QAM	1	0	21.70	20.54	20.66	20.30
		1	3	21.70	20.63	20.73	20.61
		1	5	21.70	20.56	20.72	20.64
		3	0	21.70	20.45	20.46	20.43
		3	2	21.70	20.59	20.59	20.41
		3	3	21.70	20.50	20.65	20.42
		6	0	21.70	20.11	20.46	20.31
	64QAM	1	0	21.70	20.51	20.60	20.43
		1	3	21.70	20.58	20.67	20.45
		1	5	21.70	20.42	20.66	20.53
		3	0	21.70	20.45	20.47	20.66
		3	2	21.70	20.42	20.64	20.51
		3	3	21.70	20.58	20.49	20.30
		6	0	20.70	19.47	19.46	19.57
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	21.70	20.55	20.61	20.62
		1	7	21.70	20.58	20.62	20.66
		1	14	21.70	20.57	20.40	20.64
		8	0	21.70	20.46	20.61	20.54
		8	4	21.70	20.51	20.58	20.44
		8	7	21.70	20.53	20.62	20.54
		15	0	21.70	20.45	20.41	20.45
	16QAM	1	0	21.70	20.69	20.60	20.90
		1	7	21.70	20.73	20.51	20.86
		1	14	21.70	20.84	20.66	20.89
		8	0	21.70	20.39	20.46	20.42
		8	4	21.70	20.43	20.55	20.55
		8	7	21.70	20.34	20.43	20.46
		15	0	21.70	20.34	20.47	20.28
	64QAM	1	0	21.70	20.67	20.73	20.78
		1	7	21.70	20.45	20.63	20.59
		1	14	21.70	20.59	20.63	20.72
		8	0	20.70	19.39	19.45	19.63
		8	4	20.70	19.36	19.57	19.53
		8	7	20.70	19.35	19.50	19.50
		15	0	20.70	19.39	19.40	19.40

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	21.70	20.56	20.55	20.47
		1	13	21.70	20.59	20.52	20.48
		1	24	21.70	20.61	20.57	20.50
		12	0	21.70	20.59	20.49	20.48
		12	6	21.70	20.58	20.49	20.49
		12	13	21.70	20.59	20.62	20.49
		25	0	21.70	20.61	20.47	20.42
	16QAM	1	0	21.70	20.54	20.67	20.63
		1	13	21.70	20.78	20.79	20.63
		1	24	21.70	20.82	20.63	20.60
		12	0	21.70	20.44	20.58	20.37
		12	6	21.70	20.47	20.58	20.38
		12	13	21.70	20.39	20.45	20.40
		25	0	21.70	20.38	20.41	20.34
	64QAM	1	0	21.70	20.59	20.48	20.53
		1	13	21.70	20.53	20.51	20.49
		1	24	21.70	20.50	20.54	20.39
		12	0	20.70	19.53	19.52	19.45
		12	6	20.70	19.47	19.60	19.39
		12	13	20.70	19.47	19.56	19.37
		25	0	20.70	19.43	19.44	19.45
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	21.70	20.58	20.41	20.54
		1	25	21.70	20.63	20.42	20.51
		1	49	21.70	20.63	20.40	20.52
		25	0	21.70	20.63	20.57	20.46
		25	13	21.70	20.60	20.57	20.48
		25	25	21.70	20.61	20.56	20.48
		50	0	21.70	20.51	20.48	20.60
	16QAM	1	0	21.70	20.53	20.39	20.65
		1	25	21.70	20.62	20.47	20.62
		1	49	21.70	20.71	20.37	20.57
		25	0	21.70	20.44	20.40	20.40
		25	13	21.70	20.42	20.40	20.40
		25	25	21.70	20.48	20.42	20.39
		50	0	21.70	20.36	20.37	20.28
	64QAM	1	0	21.70	20.57	20.48	20.48
		1	25	21.70	20.59	20.46	20.52
		1	49	21.70	20.53	20.37	20.53
		25	0	20.70	19.50	19.43	19.40
		25	13	20.70	19.47	19.45	19.42
		25	25	20.70	19.49	19.47	19.45
		50	0	20.70	19.38	19.38	19.57

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	21.70	20.64	20.52	20.61
		1	38	21.70	20.64	20.43	20.66
		1	74	21.70	20.51	20.47	20.62
		36	0	21.70	20.55	20.51	20.52
		36	18	21.70	20.55	20.51	20.52
		36	39	21.70	20.55	20.51	20.51
		75	0	21.70	20.43	20.59	20.49
	16QAM	1	0	21.70	20.56	20.42	20.44
		1	38	21.70	20.76	20.56	20.65
		1	74	21.70	20.85	20.72	20.63
		36	0	21.70	20.44	20.43	20.56
		36	18	21.70	20.44	20.38	20.42
		36	39	21.70	20.45	20.37	20.41
		75	0	21.70	20.47	20.42	20.41
	64QAM	1	0	21.70	20.47	20.41	20.61
		1	38	21.70	20.53	20.49	20.64
		1	74	21.70	20.50	20.29	20.56
		36	0	20.70	19.44	19.44	19.43
		36	18	20.70	19.46	19.43	19.41
		36	39	20.70	19.48	19.45	19.41
		75	0	20.70	19.57	19.46	19.44
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	21.70	20.32	20.34	20.33
		1	50	21.70	20.19	20.11	20.13
		1	99	21.70	<b>20.36</b>	20.18	20.12
		50	0	21.70	<b>20.64</b>	<b>20.58</b>	<b>20.55</b>
		50	25	21.70	20.40	20.56	20.51
		50	50	21.70	20.56	20.57	20.51
		100	0	21.70	20.60	20.41	20.64
	16QAM	1	0	21.70	20.36	20.38	20.46
		1	50	21.70	20.46	20.37	20.50
		1	99	21.70	20.26	20.46	20.38
		50	0	21.70	20.59	20.53	20.43
		50	25	21.70	20.61	20.52	20.42
		50	50	21.70	20.60	20.53	20.44
		100	0	21.70	20.60	20.56	20.58
	64QAM	1	0	21.70	20.27	20.35	20.41
		1	50	21.70	20.27	20.49	20.56
		1	99	21.70	20.37	20.25	20.35
		50	0	20.70	19.64	19.59	19.43
		50	25	20.70	19.64	19.58	19.42
		50	50	20.70	19.63	19.59	19.47
		100	0	20.70	19.60	19.58	19.59

Table 43: Conducted power measurement results of LTE Band 2(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	16.70	15.49	15.52	15.50
		1	3	16.70	15.48	15.50	15.51
		1	5	16.70	15.46	15.52	15.58
		3	0	16.70	15.35	15.37	15.52
		3	2	16.70	15.46	15.35	15.49
		3	3	16.70	15.41	15.32	15.47
		6	0	16.70	15.34	15.44	15.44
	16QAM	1	0	16.70	15.59	15.71	15.63
		1	3	16.70	15.51	15.34	15.56
		1	5	16.70	15.49	15.52	15.54
		3	0	16.70	15.54	15.47	15.28
		3	2	16.70	15.47	15.56	15.60
		3	3	16.70	15.52	15.35	15.52
		6	0	16.70	15.40	15.57	15.31
	64QAM	1	0	16.70	15.32	15.75	15.61
		1	3	16.70	15.44	15.64	15.50
		1	5	16.70	15.56	15.43	15.52
		3	0	16.70	15.35	15.55	15.58
		3	2	16.70	15.54	15.53	15.59
		3	3	16.70	15.37	15.58	15.54
		6	0	16.70	15.34	15.46	15.55
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	16.70	15.50	15.61	15.57
		1	7	16.70	15.44	15.60	15.56
		1	14	16.70	15.51	15.58	15.59
		8	0	16.70	15.38	15.41	15.53
		8	4	16.70	15.36	15.45	15.50
		8	7	16.70	15.37	15.53	15.53
		15	0	16.70	15.43	15.52	15.46
	16QAM	1	0	16.70	15.64	15.73	15.68
		1	7	16.70	15.68	15.69	15.76
		1	14	16.70	15.85	15.56	15.77
		8	0	16.70	15.38	15.43	15.43
		8	4	16.70	15.45	15.50	15.41
		8	7	16.70	15.39	15.50	15.36
		15	0	16.70	15.41	15.41	15.44
	64QAM	1	0	16.70	15.50	15.43	15.54
		1	7	16.70	15.56	15.57	15.38
		1	14	16.70	15.55	15.52	15.65
		8	0	16.70	15.51	15.53	15.43
		8	4	16.70	15.52	15.41	15.53
		8	7	16.70	15.41	15.45	15.55
		15	0	16.70	15.54	15.50	15.47



Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	16.70	15.49	15.45	15.60
		1	13	16.70	15.48	15.45	15.64
		1	24	16.70	15.51	15.43	15.62
		12	0	16.70	15.45	15.51	15.52
		12	6	16.70	15.50	15.50	15.50
		12	13	16.70	15.50	15.51	15.49
		25	0	16.70	15.46	15.47	15.44
	16QAM	1	0	16.70	15.75	15.84	15.73
		1	13	16.70	15.55	15.46	15.59
		1	24	16.70	15.59	15.56	15.64
		12	0	16.70	15.48	15.45	15.43
		12	6	16.70	15.48	15.51	15.45
		12	13	16.70	15.44	15.47	15.43
		25	0	16.70	15.56	15.53	15.43
	64QAM	1	0	16.70	15.74	15.65	15.81
		1	13	16.70	15.55	15.57	15.69
		1	24	16.70	15.61	15.65	15.61
		12	0	16.70	15.47	15.43	15.46
		12	6	16.70	15.42	15.46	15.49
		12	13	16.70	15.42	15.45	15.43
		25	0	16.70	15.36	15.50	15.39
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	16.70	15.62	15.44	15.56
		1	25	16.70	15.61	15.44	15.58
		1	49	16.70	15.59	15.51	15.58
		25	0	16.70	15.61	15.41	15.47
		25	13	16.70	15.59	15.44	15.49
		25	25	16.70	15.59	15.46	15.48
		50	0	16.70	15.56	15.47	15.43
	16QAM	1	0	16.70	15.75	15.65	15.56
		1	25	16.70	15.55	15.56	15.74
		1	49	16.70	15.72	15.62	15.61
		25	0	16.70	15.61	15.39	15.39
		25	13	16.70	15.49	15.40	15.39
		25	25	16.70	15.52	15.45	15.38
		50	0	16.70	15.44	15.46	15.34
	64QAM	1	0	16.70	15.71	15.55	15.74
		1	25	16.70	15.59	15.63	15.59
		1	49	16.70	15.68	15.49	15.78
		25	0	16.70	15.44	15.37	15.34
		25	13	16.70	15.46	15.41	15.33
		25	25	16.70	15.47	15.39	15.49
		50	0	16.70	15.42	15.40	15.42

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	16.70	15.55	15.50	15.64
		1	38	16.70	15.57	15.46	15.64
		1	74	16.70	15.58	15.49	15.63
		36	0	16.70	15.54	15.50	15.49
		36	18	16.70	15.56	15.50	15.50
		36	39	16.70	15.54	15.50	15.49
		75	0	16.70	15.50	15.51	15.48
	16QAM	1	0	16.70	15.58	15.64	15.53
		1	38	16.70	15.40	15.53	15.69
		1	74	16.70	15.64	15.60	15.61
		36	0	16.70	15.57	15.45	15.43
		36	18	16.70	15.55	15.45	15.47
		36	39	16.70	15.57	15.47	15.45
		75	0	16.70	15.48	15.38	15.38
	64QAM	1	0	16.70	15.70	15.66	15.76
		1	38	16.70	15.67	15.63	15.54
		1	74	16.70	15.63	15.59	15.55
		36	0	16.70	15.45	15.49	15.44
		36	18	16.70	15.46	15.49	15.42
		36	39	16.70	15.54	15.49	15.48
		75	0	16.70	15.50	15.40	15.43
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	16.70	15.31	15.18	15.22
		1	50	16.70	15.20	15.22	15.19
		1	99	16.70	15.19	15.28	<b>15.37</b>
		50	0	16.70	<b>15.57</b>	15.42	15.59
		50	25	16.70	15.53	15.40	15.36
		50	50	16.70	15.50	<b>15.60</b>	<b>15.63</b>
		100	0	16.70	15.50	15.52	15.65
	16QAM	1	0	16.70	15.52	15.32	15.21
		1	50	16.70	15.56	15.46	15.15
		1	99	16.70	15.44	15.40	15.26
		50	0	16.70	15.59	15.40	15.44
		50	25	16.70	15.62	15.40	15.33
		50	50	16.70	15.61	15.40	15.31
		100	0	16.70	15.40	15.40	15.51
	64QAM	1	0	16.70	15.50	15.31	15.50
		1	50	16.70	15.43	15.32	15.33
		1	99	16.70	15.44	15.35	15.28
		50	0	16.70	15.36	15.44	15.47
		50	25	16.70	15.44	15.44	15.47
		50	50	16.70	15.39	15.41	15.44
		100	0	16.70	15.41	15.44	15.43

Table 44: Conducted power measurement results of LTE Band 2(Reduced Power Level D1)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	
				Max.	18607CH	18900CH	19193CH	
1.4MHz	QPSK	1	0	12.70	11.64	11.61	11.53	
		1	3	12.70	11.60	11.61	11.53	
		1	5	12.70	11.61	11.60	11.51	
		3	0	12.70	11.58	11.46	11.54	
		3	2	12.70	11.53	11.60	11.44	
		3	3	12.70	11.54	11.49	11.41	
	16QAM	6	0	12.70	11.49	11.61	11.48	
		1	0	12.70	11.75	11.56	11.54	
		1	3	12.70	11.68	11.74	11.67	
		1	5	12.70	11.68	11.73	11.69	
		3	0	12.70	11.55	11.55	11.52	
		3	2	12.70	11.57	11.50	11.52	
	64QAM	3	3	12.70	11.56	11.59	11.52	
		6	0	12.70	11.44	11.42	11.28	
		1	0	12.70	11.62	11.49	11.74	
		1	3	12.70	11.77	11.53	11.73	
		1	5	12.70	11.63	11.58	11.71	
		3	0	12.70	11.48	11.45	11.44	
	3MHz	QPSK	3	2	12.70	11.54	11.53	11.39
			3	3	12.70	11.59	11.56	11.52
			6	0	12.70	11.41	11.44	11.60
1			0	12.70	11.60	11.65	11.51	
1			7	12.70	11.61	11.63	11.49	
1			14	12.70	11.63	11.66	11.52	
8			0	12.70	11.55	11.56	11.50	
16QAM		8	4	12.70	11.54	11.59	11.44	
		8	7	12.70	11.54	11.59	11.50	
		15	0	12.70	11.49	11.53	11.49	
		1	0	12.70	11.66	11.69	11.55	
		1	7	12.70	11.54	11.74	11.71	
		1	14	12.70	11.62	11.69	11.55	
		8	0	12.70	11.45	11.51	11.51	
64QAM		8	4	12.70	11.55	11.53	11.61	
		8	7	12.70	11.52	11.46	11.57	
		15	0	12.70	11.41	11.43	11.58	
		1	0	12.70	11.83	11.59	11.61	
		1	7	12.70	11.67	11.63	11.71	
		1	14	12.70	11.55	11.57	11.58	
		8	0	12.70	11.54	11.42	11.59	
	8	4	12.70	11.46	11.44	11.56		
	8	7	12.70	11.47	11.48	11.44		
	15	0	12.70	11.44	11.47	11.55		

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	12.70	11.45	11.60	11.68
		1	13	12.70	11.51	11.62	11.46
		1	24	12.70	11.45	11.63	11.49
		12	0	12.70	11.61	11.57	11.53
		12	6	12.70	11.60	11.57	11.53
		12	13	12.70	11.61	11.58	11.53
		25	0	12.70	11.58	11.55	11.46
	16QAM	1	0	12.70	11.78	11.69	11.61
		1	13	12.70	11.66	11.84	11.68
		1	24	12.70	11.78	11.81	11.83
		12	0	12.70	11.49	11.53	11.46
		12	6	12.70	11.55	11.49	11.48
		12	13	12.70	11.50	11.45	11.47
		25	0	12.70	11.50	11.45	11.57
	64QAM	1	0	12.70	11.58	11.71	11.71
		1	13	12.70	11.59	11.65	11.78
		1	24	12.70	11.60	11.57	11.74
		12	0	12.70	11.53	11.46	11.49
		12	6	12.70	11.50	11.57	11.53
		12	13	12.70	11.54	11.50	11.54
		25	0	12.70	11.49	11.52	11.59
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	12.70	11.50	11.57	11.44
		1	25	12.70	11.53	11.53	11.44
		1	49	12.70	11.51	11.54	11.52
		25	0	12.70	11.52	11.60	11.46
		25	13	12.70	11.50	11.60	11.46
		25	25	12.70	11.52	11.63	11.65
		50	0	12.70	11.65	11.50	11.45
	16QAM	1	0	12.70	11.68	11.67	11.60
		1	25	12.70	11.69	11.61	11.50
		1	49	12.70	11.70	11.70	11.60
		25	0	12.70	11.46	11.48	11.42
		25	13	12.70	11.43	11.48	11.41
		25	25	12.70	11.44	11.45	11.37
		50	0	12.70	11.38	11.44	11.39
	64QAM	1	0	12.70	11.61	11.58	11.85
		1	25	12.70	11.71	11.71	11.64
		1	49	12.70	11.81	11.62	11.72
		25	0	12.70	11.61	11.50	11.46
		25	13	12.70	11.61	11.59	11.45
		25	25	12.70	11.60	11.49	11.41
		50	0	12.70	11.48	11.46	11.42

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	12.70	11.55	11.61	11.67
		1	38	12.70	11.52	11.62	11.70
		1	74	12.70	11.52	11.51	11.65
		36	0	12.70	11.58	11.66	11.70
		36	18	12.70	11.55	11.67	11.63
		36	39	12.70	11.55	11.67	11.70
		75	0	12.70	11.49	11.52	11.62
	16QAM	1	0	12.70	11.51	11.62	11.55
		1	38	12.70	11.81	11.83	11.75
		1	74	12.70	11.75	11.53	11.59
		36	0	12.70	11.43	11.55	11.59
		36	18	12.70	11.48	11.56	11.63
		36	39	12.70	11.50	11.56	11.60
		75	0	12.70	11.45	11.46	11.55
	64QAM	1	0	12.70	11.75	11.60	11.73
		1	38	12.70	11.74	11.41	11.76
		1	74	12.70	11.73	11.31	11.48
		36	0	12.70	11.58	11.61	11.63
		36	18	12.70	11.55	11.57	11.64
		36	39	12.70	11.63	11.59	11.64
		75	0	12.70	11.59	11.48	11.62
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	12.70	11.32	11.32	11.39
		1	50	12.70	11.29	11.30	11.37
		1	99	12.70	11.31	11.34	11.38
		50	0	12.70	11.60	11.54	11.64
		50	25	12.70	11.71	11.61	11.63
		50	50	12.70	11.60	11.68	11.64
		100	0	12.70	11.56	11.67	11.50
	16QAM	1	0	12.70	11.43	11.26	11.59
		1	50	12.70	11.53	11.36	11.28
		1	99	12.70	11.42	11.55	11.59
		50	0	12.70	11.50	11.60	11.44
		50	25	12.70	11.52	11.60	11.46
		50	50	12.70	11.50	11.63	11.44
		100	0	12.70	11.51	11.43	11.47
	64QAM	1	0	12.70	11.36	11.33	11.62
		1	50	12.70	11.33	11.19	11.41
		1	99	12.70	11.38	11.52	11.35
		50	0	12.70	11.51	11.61	11.46
		50	25	12.70	11.50	11.62	11.45
		50	50	12.70	11.55	11.64	11.47
		100	0	12.70	11.44	11.44	11.51

Table 45: Conducted power measurement results of LTE Band 2(Reduced Power Level D3)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	17.70	16.47	16.45	16.63
		1	3	17.70	16.47	16.47	16.59
		1	5	17.70	16.48	16.49	16.62
		3	0	17.70	16.39	16.46	16.45
		3	2	17.70	16.35	16.47	16.43
		3	3	17.70	16.43	16.41	16.47
		6	0	17.70	16.40	16.44	16.37
	16QAM	1	0	17.70	16.54	16.47	16.39
		1	3	17.70	16.39	16.57	16.72
		1	5	17.70	16.59	16.47	16.67
		3	0	17.70	16.38	16.50	16.41
		3	2	17.70	16.37	16.44	16.58
		3	3	17.70	16.40	16.48	16.60
		6	0	17.70	16.19	16.34	16.41
	64QAM	1	0	17.70	16.35	16.67	16.56
		1	3	17.70	16.60	16.59	16.61
		1	5	17.70	16.38	16.49	16.63
		3	0	17.70	16.18	16.39	16.44
		3	2	17.70	16.37	16.45	16.56
		3	3	17.70	16.35	16.41	16.57
		6	0	17.70	16.53	16.46	16.56
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	17.70	16.47	16.59	16.56
		1	7	17.70	16.43	16.54	16.56
		1	14	17.70	16.39	16.57	16.56
		8	0	17.70	16.43	16.47	16.44
		8	4	17.70	16.42	16.41	16.41
		8	7	17.70	16.43	16.38	16.48
		15	0	17.70	16.41	16.45	16.61
	16QAM	1	0	17.70	16.57	16.58	16.80
		1	7	17.70	16.52	16.49	16.41
		1	14	17.70	16.71	16.63	16.47
		8	0	17.70	16.32	16.38	16.58
		8	4	17.70	16.32	16.52	16.56
		8	7	17.70	16.34	16.39	16.54
		15	0	17.70	16.29	16.33	16.34
	64QAM	1	0	17.70	16.56	16.63	16.66
		1	7	17.70	16.46	16.57	16.66
		1	14	17.70	16.65	16.67	16.70
		8	0	17.70	16.31	16.53	16.50
		8	4	17.70	16.28	16.37	16.48
		8	7	17.70	16.38	16.42	16.51
		15	0	17.70	16.40	16.54	16.50

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	17.70	16.57	16.40	16.45
		1	13	17.70	16.57	16.41	16.43
		1	24	17.70	16.56	16.43	16.42
		12	0	17.70	16.55	16.51	16.50
		12	6	17.70	16.55	16.50	16.49
		12	13	17.70	16.46	16.44	16.49
		25	0	17.70	16.56	16.46	16.42
	16QAM	1	0	17.70	16.53	16.54	16.62
		1	13	17.70	16.64	16.62	16.58
		1	24	17.70	16.60	16.71	16.77
		12	0	17.70	16.47	16.41	16.47
		12	6	17.70	16.39	16.44	16.43
		12	13	17.70	16.40	16.43	16.40
		25	0	17.70	16.40	16.38	16.37
	64QAM	1	0	17.70	16.50	16.44	16.51
		1	13	17.70	16.83	16.65	16.50
		1	24	17.70	16.69	16.77	16.67
		12	0	17.70	16.50	16.42	16.55
		12	6	17.70	16.39	16.41	16.60
		12	13	17.70	16.45	16.39	16.56
		25	0	17.70	16.37	16.45	16.36
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	17.70	16.61	16.53	16.57
		1	25	17.70	16.63	16.44	16.57
		1	49	17.70	16.62	16.56	16.53
		25	0	17.70	16.59	16.40	16.61
		25	13	17.70	16.59	16.43	16.55
		25	25	17.70	16.57	16.39	16.55
		50	0	17.70	16.47	16.43	16.46
	16QAM	1	0	17.70	16.41	16.70	16.59
		1	25	17.70	16.66	16.60	16.64
		1	49	17.70	16.75	16.55	16.50
		25	0	17.70	16.50	16.34	16.36
		25	13	17.70	16.50	16.40	16.46
		25	25	17.70	16.44	16.41	16.36
		50	0	17.70	16.35	16.35	16.35
	64QAM	1	0	17.70	16.61	16.54	16.54
		1	25	17.70	16.72	16.76	16.49
		1	49	17.70	16.70	16.52	16.67
		25	0	17.70	16.44	16.39	16.54
		25	13	17.70	16.46	16.33	16.43
		25	25	17.70	16.45	16.40	16.43
		50	0	17.70	16.38	16.43	16.40

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	17.70	16.58	16.59	16.66
		1	38	17.70	16.56	16.57	16.61
		1	74	17.70	16.59	16.58	16.68
		36	0	17.70	16.50	16.47	16.59
		36	18	17.70	16.50	16.45	16.59
		36	39	17.70	16.52	16.45	16.48
		75	0	17.70	16.60	16.52	16.47
	16QAM	1	0	17.70	16.58	16.69	16.69
		1	38	17.70	16.63	16.55	16.68
		1	74	17.70	16.58	16.63	16.58
		36	0	17.70	16.42	16.44	16.39
		36	18	17.70	16.49	16.39	16.41
		36	39	17.70	16.43	16.46	16.39
		75	0	17.70	16.37	16.44	16.38
	64QAM	1	0	17.70	16.90	16.50	16.75
		1	38	17.70	16.58	16.45	16.57
		1	74	17.70	16.71	16.44	16.46
		36	0	17.70	16.59	16.62	16.43
		36	18	17.70	16.56	16.57	16.47
		36	39	17.70	16.59	16.62	16.50
		75	0	17.70	16.42	16.51	16.44
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	17.70	16.39	16.23	16.30
		1	50	17.70	16.40	16.39	16.30
		1	99	17.70	16.38	<b>16.40</b>	16.31
		50	0	17.70	16.67	<b>16.54</b>	16.58
		50	25	17.70	<b>16.68</b>	16.53	16.59
		50	50	17.70	16.67	16.53	<b>16.59</b>
		100	0	17.70	16.56	16.45	16.48
	16QAM	1	0	17.70	16.40	16.41	16.36
		1	50	17.70	16.40	16.59	16.52
		1	99	17.70	16.36	16.33	16.42
		50	0	17.70	16.55	16.39	16.45
		50	25	17.70	16.57	16.47	16.51
		50	50	17.70	16.58	16.40	16.43
		100	0	17.70	16.40	16.42	16.48
	64QAM	1	0	17.70	16.55	16.34	16.45
		1	50	17.70	16.50	16.44	16.33
		1	99	17.70	16.38	16.49	16.43
		50	0	17.70	16.62	16.44	16.45
		50	25	17.70	16.48	16.42	16.48
		50	50	17.70	16.46	16.42	16.48
		100	0	17.70	16.47	16.37	16.50

Table 46: Conducted power measurement results of LTE Band 2(Reduced Power Level D2)



### 7.1.12 Conducted power measurements of LTE Band 2 (Main Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	24.70	23.29	23.37	23.32
		1	3	24.70	22.30	23.41	23.25
		1	5	24.70	23.29	23.38	23.27
		3	0	24.70	23.26	23.33	23.28
		3	2	24.70	23.22	23.33	23.54
		3	3	24.70	23.26	23.44	23.39
		6	0	23.70	22.45	22.34	22.24
	16QAM	1	0	23.70	22.22	22.35	22.37
		1	3	23.70	22.37	22.48	22.42
		1	5	23.70	22.49	22.37	22.33
		3	0	23.70	22.27	22.50	22.23
		3	2	23.70	22.13	22.51	22.27
		3	3	23.70	22.25	22.35	22.25
		6	0	23.70	21.37	21.43	21.21
	64QAM	1	0	23.70	21.34	21.45	21.46
		1	3	23.70	21.40	21.32	21.37
		1	5	23.70	21.50	21.68	21.38
		3	0	23.70	21.36	21.39	21.22
		3	2	23.70	21.37	21.26	21.34
		3	3	23.70	21.45	21.33	21.40
		6	0	21.70	20.27	20.49	20.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	24.70	23.28	23.34	23.34
		1	7	24.70	23.34	23.38	23.39
		1	14	24.70	23.24	23.34	23.36
		8	0	23.70	22.26	22.38	22.35
		8	4	23.70	22.43	22.45	22.34
		8	7	23.70	22.27	22.41	22.28
		15	0	23.70	22.31	22.53	22.35
	16QAM	1	0	23.70	22.44	22.49	22.32
		1	7	23.70	22.40	22.45	22.58
		1	14	23.70	22.48	22.43	22.45
		8	0	22.70	21.31	21.39	21.30
		8	4	22.70	21.32	21.33	21.40
		8	7	22.70	21.25	21.30	21.32
		15	0	22.70	21.28	21.30	21.28
	64QAM	1	0	22.70	21.30	21.42	21.37
		1	7	22.70	21.24	21.48	21.33
		1	14	22.70	21.42	21.26	21.62
		8	0	21.70	20.34	20.40	20.42
		8	4	21.70	20.43	20.38	20.33
		8	7	21.70	20.38	20.39	20.27
		15	0	21.70	20.32	20.34	20.25

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	24.70	23.33	23.51	23.52
		1	13	24.70	23.33	23.31	23.30
		1	24	24.70	23.32	23.49	23.29
		12	0	23.70	22.36	22.37	22.40
		12	6	23.70	22.38	22.52	22.43
		12	13	23.70	22.35	22.42	22.43
		25	0	23.70	22.38	22.46	22.36
	16QAM	1	0	23.70	22.54	22.32	22.68
		1	13	23.70	22.38	22.56	22.74
		1	24	23.70	22.47	22.49	22.80
		12	0	22.70	21.32	21.39	21.45
		12	6	22.70	21.31	21.48	21.44
		12	13	22.70	21.37	21.39	21.43
		25	0	22.70	21.32	21.43	21.28
	64QAM	1	0	22.70	21.33	21.69	21.72
		1	13	22.70	21.57	21.45	21.52
		1	24	22.70	21.27	21.62	21.77
		12	0	21.70	20.37	20.50	20.41
		12	6	21.70	20.39	20.52	20.45
		12	13	21.70	20.36	20.32	20.45
		25	0	21.70	20.37	20.33	20.30
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH
10MHz	QPSK	1	0	24.70	23.33	23.27	23.42
		1	25	24.70	23.36	23.48	23.42
		1	49	24.70	23.32	23.41	23.38
		25	0	23.70	22.43	22.40	22.51
		25	13	23.70	22.43	22.36	22.51
		25	25	23.70	22.43	22.36	22.40
		50	0	23.70	22.35	22.37	22.48
	16QAM	1	0	23.70	22.40	22.44	22.53
		1	25	23.70	22.38	22.44	22.54
		1	49	23.70	22.41	22.30	22.47
		25	0	22.70	21.35	21.34	21.27
		25	13	22.70	21.35	21.28	21.40
		25	25	22.70	21.34	21.27	21.38
		50	0	22.70	21.25	21.31	21.38
	64QAM	1	0	22.70	21.47	21.38	21.41
		1	25	22.70	21.41	21.71	21.51
		1	49	22.70	21.32	21.51	21.62
		25	0	21.70	20.40	20.43	20.47
		25	13	21.70	20.45	20.42	20.49
		25	25	21.70	20.43	20.42	20.46
		50	0	21.70	20.28	20.31	20.35

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	24.70	23.29	23.48	23.40
		1	38	24.70	23.66	23.49	23.41
		1	74	24.70	23.37	23.48	23.42
		36	0	23.70	22.41	22.32	22.38
		36	18	23.70	22.41	22.31	22.34
		36	39	23.70	22.40	22.31	22.40
		75	0	23.70	22.53	22.39	22.28
	16QAM	1	0	23.70	22.41	22.69	22.63
		1	38	23.70	22.53	22.53	22.52
		1	74	23.70	22.66	22.57	22.51
		36	0	22.70	21.35	21.27	21.29
		36	18	22.70	21.32	21.29	21.30
		36	39	22.70	21.35	21.27	21.33
		75	0	22.70	21.42	21.33	21.20
	64QAM	1	0	22.70	21.60	21.56	21.56
		1	38	22.70	21.44	21.60	21.56
		1	74	22.70	21.46	21.09	21.60
		36	0	21.70	20.36	20.35	20.34
		36	18	21.70	20.38	20.30	20.30
		36	39	21.70	20.41	20.34	20.35
		75	0	21.70	20.46	20.39	20.26
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	24.70	<b>23.23</b>	23.20	<b>23.16</b>
		1	50	24.70	23.03	<b>23.22</b>	23.14
		1	99	24.70	23.22	23.21	23.16
		50	0	23.70	22.40	22.40	22.37
		50	25	23.70	<b>22.56</b>	22.40	22.37
		50	50	23.70	22.56	22.39	22.38
		100	0	23.70	22.51	22.40	22.39
	16QAM	1	0	23.70	22.19	22.44	22.25
		1	50	23.70	22.24	22.27	22.43
		1	99	23.70	22.18	22.36	22.31
		50	0	22.70	21.34	21.32	21.30
		50	25	22.70	21.51	21.32	21.30
		50	50	22.70	21.36	21.35	21.27
		100	0	22.70	21.51	21.38	21.36
	64QAM	1	0	22.70	21.17	21.41	21.28
		1	50	22.70	21.05	21.32	21.26
		1	99	22.70	21.16	21.22	21.20
		50	0	21.70	20.51	20.36	20.32
		50	25	21.70	20.38	20.35	20.31
		50	50	21.70	20.38	20.40	20.32
		100	0	21.70	20.52	20.43	20.43

Table 47: Conducted power measurement results of LTE Band 2(Full power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	22.70	21.49	21.52	21.38
		1	3	22.70	21.48	21.45	21.39
		1	5	22.70	21.50	21.51	21.59
		3	0	22.70	21.38	21.50	21.25
		3	2	22.70	21.45	21.40	21.25
		3	3	22.70	21.41	21.18	21.36
		6	0	22.70	21.33	21.49	21.28
	16QAM	1	0	22.70	21.49	21.61	21.69
		1	3	22.70	21.52	21.40	21.72
		1	5	22.70	21.69	21.45	21.70
		3	0	22.70	21.18	21.39	21.55
		3	2	22.70	21.19	21.41	21.21
		3	3	22.70	21.50	21.51	21.29
		6	0	22.70	21.23	21.40	21.21
	64QAM	1	0	22.70	21.48	21.58	21.20
		1	3	22.70	21.34	21.42	21.09
		1	5	22.70	21.30	21.45	21.48
		3	0	22.70	21.39	21.36	21.28
		3	2	22.70	21.33	21.42	21.26
		3	3	22.70	21.38	21.47	21.24
		6	0	21.70	20.28	20.32	20.14
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
3MHz	QPSK	1	0	22.70	21.37	21.40	21.38
		1	7	22.70	21.42	21.39	21.53
		1	14	22.70	21.42	21.33	21.37
		8	0	22.70	21.38	21.40	21.31
		8	4	22.70	21.40	21.38	21.22
		8	7	22.70	21.39	21.37	21.30
		15	0	22.70	21.41	21.54	21.24
	16QAM	1	0	22.70	21.54	21.47	21.56
		1	7	22.70	21.53	21.48	21.62
		1	14	22.70	21.54	21.47	21.73
		8	0	22.70	21.32	21.38	21.44
		8	4	22.70	21.26	21.34	21.40
		8	7	22.70	21.26	21.36	21.40
		15	0	22.70	21.20	21.24	21.17
	64QAM	1	0	22.70	21.43	21.53	21.48
		1	7	22.70	21.30	21.34	21.54
		1	14	22.70	21.51	21.42	21.50
		8	0	21.70	20.29	20.39	20.36
		8	4	21.70	20.29	20.41	20.44
		8	7	21.70	20.32	20.45	20.44
		15	0	21.70	20.29	20.32	20.26

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	22.70	21.49	21.34	21.35
		1	13	22.70	21.46	21.42	21.49
		1	24	22.70	21.50	21.44	21.35
		12	0	22.70	21.49	21.47	21.52
		12	6	22.70	21.49	21.47	21.40
		12	13	22.70	21.49	21.50	21.53
		25	0	22.70	21.49	21.34	21.30
	16QAM	1	0	22.70	21.50	21.51	21.79
		1	13	22.70	21.83	21.46	21.72
		1	24	22.70	21.57	21.51	21.64
		12	0	22.70	21.31	21.35	21.34
		12	6	22.70	21.33	21.39	21.34
		12	13	22.70	21.36	21.36	21.37
		25	0	22.70	21.27	21.25	21.45
	64QAM	1	0	22.70	21.48	21.50	21.65
		1	13	22.70	21.39	21.43	21.50
		1	24	22.70	21.32	21.42	21.58
		12	0	21.70	20.37	20.39	20.34
		12	6	21.70	20.34	20.49	20.33
		12	13	21.70	20.37	20.44	20.37
		25	0	21.70	20.30	20.29	20.30
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
10MHz	QPSK	1	0	22.70	21.51	21.32	21.53
		1	25	22.70	21.51	21.35	21.50
		1	49	22.70	21.51	21.32	21.50
		25	0	22.70	21.54	21.47	21.37
		25	13	22.70	21.52	21.33	21.51
		25	25	22.70	21.53	21.47	21.49
		50	0	22.70	21.37	21.36	21.26
	16QAM	1	0	22.70	21.59	21.39	21.55
		1	25	22.70	21.47	21.40	21.54
		1	49	22.70	21.51	21.65	21.54
		25	0	22.70	21.33	21.29	21.47
		25	13	22.70	21.30	21.32	21.42
		25	25	22.70	21.31	21.30	21.43
		50	0	22.70	21.25	21.27	21.38
	64QAM	1	0	22.70	21.40	21.60	21.53
		1	25	22.70	21.37	21.33	21.61
		1	49	22.70	21.42	21.52	21.39
		25	0	21.70	20.39	20.30	20.46
		25	13	21.70	20.35	20.33	20.46
		25	25	21.70	20.37	20.35	20.42
		50	0	21.70	20.29	20.34	20.40
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	22.70	21.50	21.35	21.49
		1	38	22.70	21.38	21.31	21.51
		1	74	22.70	21.38	21.31	21.49
		36	0	22.70	21.53	21.36	21.36
		36	18	22.70	21.42	21.34	21.40
		36	39	22.70	21.53	21.37	21.36
		75	0	22.70	21.32	21.36	21.36
	16QAM	1	0	22.70	21.47	21.58	21.56
		1	38	22.70	21.63	21.63	21.52
		1	74	22.70	21.64	21.76	21.60
		36	0	22.70	21.31	21.48	21.33
		36	18	22.70	21.33	21.46	21.33
		36	39	22.70	21.30	21.48	21.29
		75	0	22.70	21.47	21.27	21.25
	64QAM	1	0	22.70	21.23	21.53	21.69
		1	38	22.70	21.64	21.40	21.42
		1	74	22.70	21.34	21.43	21.32
		36	0	21.70	20.40	20.53	20.34
		36	18	21.70	20.38	20.54	20.35
		36	39	21.70	20.37	20.51	20.40
		75	0	21.70	20.47	20.34	20.28
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	22.70	21.14	21.29	21.29
		1	50	22.70	21.17	21.32	21.30
		1	99	22.70	<b>21.20</b>	<b>21.32</b>	<b>21.33</b>
		50	0	22.70	21.57	21.41	21.39
		50	25	22.70	21.57	21.40	21.37
		50	50	22.70	<b>21.58</b>	21.39	21.38
		100	0	22.70	21.53	21.46	21.45
	16QAM	1	0	22.70	21.23	21.56	21.42
		1	50	22.70	21.26	21.49	21.29
		1	99	22.70	21.45	21.46	21.47
		50	0	22.70	21.44	21.33	21.29
		50	25	22.70	21.46	21.31	21.29
		50	50	22.70	21.44	21.35	21.29
		100	0	22.70	21.42	21.30	21.29
	64QAM	1	0	22.70	20.98	21.25	21.03
		1	50	22.70	21.02	21.28	21.24
		1	99	22.70	21.20	21.19	21.29
		50	0	21.70	20.48	20.38	20.34
		50	25	21.70	20.52	20.38	20.34
		50	50	21.70	20.50	20.34	20.37
		100	0	21.70	20.44	20.36	20.35

Table 48: Conducted power measurement results of LTE Band 2(Reduced Power Level D1/D3/D5)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18607CH	18900CH	19193CH
1.4MHz	QPSK	1	0	20.70	19.57	19.58	19.27
		1	3	20.70	19.56	19.58	19.50
		1	5	20.70	19.56	19.56	19.28
		3	0	20.70	19.28	19.52	19.27
		3	2	20.70	19.28	19.42	19.35
		3	3	20.70	19.26	19.40	19.18
		6	0	20.70	19.23	19.26	19.31
	16QAM	1	0	20.70	19.63	19.68	19.38
		1	3	20.70	19.60	19.57	19.53
		1	5	20.70	19.73	19.59	19.59
		3	0	20.70	19.34	19.48	19.40
		3	2	20.70	19.19	19.51	19.42
		3	3	20.70	19.49	19.42	19.37
		6	0	20.70	19.35	19.47	19.37
	64QAM	1	0	20.70	19.70	19.39	19.32
		1	3	20.70	19.40	19.66	19.54
		1	5	20.70	19.45	19.40	19.38
		3	0	20.70	19.51	19.55	19.48
		3	2	20.70	19.43	19.45	19.40
		3	3	20.70	19.59	19.38	19.30
		6	0	20.70	19.41	19.41	19.42
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18615CH	18900CH	19185CH
3MHz	QPSK	1	0	20.70	19.53	19.35	19.55
		1	7	20.70	19.53	19.31	19.51
		1	14	20.70	19.52	19.55	19.32
		8	0	20.70	19.27	19.49	19.33
		8	4	20.70	19.21	19.47	19.33
		8	7	20.70	19.25	19.46	19.51
		15	0	20.70	19.54	19.49	19.35
	16QAM	1	0	20.70	19.61	19.52	19.89
		1	7	20.70	19.60	19.47	19.61
		1	14	20.70	19.66	19.60	19.81
		8	0	20.70	19.37	19.46	19.26
		8	4	20.70	19.42	19.46	19.36
		8	7	20.70	19.20	19.44	19.36
		15	0	20.70	19.34	19.30	19.28
	64QAM	1	0	20.70	19.49	19.51	19.60
		1	7	20.70	19.73	19.37	19.63
		1	14	20.70	19.40	19.64	19.64
		8	0	20.70	19.32	19.39	19.33
		8	4	20.70	19.37	19.44	19.40
		8	7	20.70	19.38	19.42	19.31
		15	0	20.70	19.44	19.41	19.44

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18625CH	18900CH	19175CH
5MHz	QPSK	1	0	20.70	19.59	19.38	19.40
		1	13	20.70	19.57	19.50	19.53
		1	24	20.70	19.59	19.38	19.40
		12	0	20.70	19.60	19.53	19.58
		12	6	20.70	19.61	19.44	19.55
		12	13	20.70	19.61	19.53	19.55
		25	0	20.70	19.54	19.50	19.32
	16QAM	1	0	20.70	19.68	19.51	19.72
		1	13	20.70	19.70	19.45	19.56
		1	24	20.70	19.83	19.62	19.58
		12	0	20.70	19.54	19.45	19.48
		12	6	20.70	19.47	19.36	19.50
		12	13	20.70	19.47	19.50	19.51
		25	0	20.70	19.46	19.32	19.42
	64QAM	1	0	20.70	19.54	19.39	19.68
		1	13	20.70	19.44	19.38	19.67
		1	24	20.70	19.59	19.47	19.62
		12	0	20.70	19.48	19.48	19.41
		12	6	20.70	19.50	19.39	19.40
		12	13	20.70	19.48	19.49	19.33
		25	0	20.70	19.47	19.37	19.29
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
10MHz	QPSK	1	0	20.70	19.57	19.42	19.50
		1	25	20.70	19.61	19.40	19.52
		1	49	20.70	19.62	19.53	19.55
		25	0	20.70	19.35	19.39	19.33
		25	13	20.70	19.40	19.47	19.36
		25	25	20.70	19.35	19.46	19.39
		50	0	20.70	19.53	19.51	19.50
	16QAM	1	0	20.70	19.75	19.40	19.59
		1	25	20.70	19.53	19.41	19.66
		1	49	20.70	19.71	19.36	19.56
		25	0	20.70	19.48	19.39	19.47
		25	13	20.70	19.46	19.43	19.37
		25	25	20.70	19.50	19.45	19.38
		50	0	20.70	19.32	19.40	19.45
	64QAM	1	0	20.70	19.47	19.38	19.46
		1	25	20.70	19.73	19.55	19.59
		1	49	20.70	19.84	19.44	19.47
		25	0	20.70	19.48	19.37	19.34
		25	13	20.70	19.47	19.29	19.44
		25	25	20.70	19.52	19.42	19.49
		50	0	20.70	19.36	19.43	19.27
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18650CH	18900CH	19150CH



Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18675CH	18900CH	19125CH
15MHz	QPSK	1	0	20.70	19.65	19.40	19.38
		1	38	20.70	19.65	19.41	19.36
		1	74	20.70	19.63	19.41	19.40
		36	0	20.70	19.64	19.42	19.48
		36	18	20.70	19.64	19.42	19.48
		36	39	20.70	19.60	19.42	19.48
		75	0	20.70	19.40	19.52	19.35
	16QAM	1	0	20.70	19.66	19.59	19.66
		1	38	20.70	19.63	19.59	19.60
		1	74	20.70	19.62	19.63	19.54
		36	0	20.70	19.52	19.36	19.31
		36	18	20.70	19.39	19.35	19.33
		36	39	20.70	19.40	19.33	19.31
		75	0	20.70	19.48	19.33	19.27
	64QAM	1	0	20.70	19.49	19.50	19.63
		1	38	20.70	19.58	19.38	19.76
		1	74	20.70	19.40	19.25	19.66
		36	0	20.70	19.40	19.34	19.35
		36	18	20.70	19.45	19.35	19.38
		36	39	20.70	19.43	19.30	19.35
		75	0	20.70	19.48	19.35	19.27
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	18700CH	18900CH	19100CH
20MHz	QPSK	1	0	20.70	19.41	19.16	19.13
		1	50	20.70	19.35	19.19	19.14
		1	99	20.70	19.36	19.19	19.15
		50	0	20.70	19.43	19.52	19.48
		50	25	20.70	19.41	19.52	19.48
		50	50	20.70	19.43	19.52	19.48
		100	0	20.70	19.46	19.55	19.58
	16QAM	1	0	20.70	19.46	19.36	19.57
		1	50	20.70	19.57	19.38	19.60
		1	99	20.70	19.62	19.32	19.41
		50	0	20.70	19.54	19.47	19.42
		50	25	20.70	19.53	19.47	19.43
		50	50	20.70	19.56	19.45	19.43
		100	0	20.70	19.32	19.42	19.44
	64QAM	1	0	20.70	19.43	19.37	19.34
		1	50	20.70	19.53	19.18	19.33
		1	99	20.70	19.11	19.32	19.25
		50	0	20.70	19.61	19.37	19.42
		50	25	20.70	19.49	19.40	19.37
		50	50	20.70	19.57	19.39	19.38
		100	0	20.70	19.32	19.45	19.47

Table 49: Conducted power measurement results of LTE Band 2(Reduced Power Level D4)

### 7.1.13 Conducted power measurements of LTE Band 4 (Second Antenna)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	
				Max.	19957CH	20175CH	20393CH	
1.4MHz	QPSK	1	0	22.20	21.17	21.27	21.34	
		1	3	22.20	21.22	21.28	21.30	
		1	5	22.20	21.17	21.33	21.38	
		3	0	22.20	21.19	21.26	21.28	
		3	2	22.20	21.10	21.21	21.22	
		3	3	22.20	21.22	21.28	21.23	
		6	0	22.20	21.12	21.21	21.11	
	16QAM	1	0	22.20	21.46	21.43	21.23	
		1	3	22.20	21.37	21.44	21.48	
		1	5	22.20	21.49	21.24	21.40	
		3	0	22.20	21.12	21.29	21.37	
		3	2	22.20	21.19	21.17	21.18	
		3	3	22.20	21.25	21.13	21.24	
		6	0	22.20	21.06	21.11	21.20	
	64QAM	1	0	22.20	21.22	21.45	21.32	
		1	3	22.20	21.07	21.17	21.19	
		1	5	22.20	21.29	21.39	21.24	
		3	0	22.20	21.07	21.20	21.33	
		3	2	22.20	21.19	21.31	21.19	
		3	3	22.20	21.21	21.31	21.16	
		6	0	21.20	20.27	20.08	20.07	
	Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
					Max.	19965CH	20175CH	20385CH
	3MHz	QPSK	1	0	22.20	21.23	21.29	21.39
1			7	22.20	21.23	21.34	21.25	
1			14	22.20	21.28	21.33	21.29	
8			0	22.20	21.32	21.28	21.21	
8			4	22.20	21.20	21.25	21.18	
8			7	22.20	21.17	21.26	21.34	
15			0	22.20	21.18	21.18	21.34	
16QAM		1	0	22.20	21.39	21.30	21.34	
		1	7	22.20	21.44	21.32	21.47	
		1	14	22.20	21.46	21.43	21.40	
		8	0	22.20	21.11	21.10	21.15	
		8	4	22.20	21.17	21.12	21.24	
		8	7	22.20	21.11	21.19	21.16	
		15	0	22.20	21.14	21.18	21.22	
64QAM		1	0	22.20	21.21	21.31	21.36	
		1	7	22.20	21.16	21.31	21.49	
		1	14	22.20	21.26	21.40	21.55	
		8	0	21.20	20.28	20.21	20.26	
		8	4	21.20	20.40	20.25	20.14	
		8	7	21.20	20.33	20.33	20.13	
		15	0	21.20	20.10	20.31	20.27	

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	22.20	21.26	21.27	21.25
		1	13	22.20	21.27	21.31	21.28
		1	24	22.20	21.27	21.26	21.25
		12	0	22.20	21.29	21.27	21.28
		12	6	22.20	21.29	21.31	21.25
		12	13	22.20	21.28	21.25	21.37
		25	0	22.20	21.16	21.25	21.25
	16QAM	1	0	22.20	21.31	21.37	21.42
		1	13	22.20	21.34	21.42	21.33
		1	24	22.20	21.36	21.47	21.43
		12	0	22.20	21.18	21.27	21.23
		12	6	22.20	21.25	21.27	21.16
		12	13	22.20	21.28	21.28	21.18
		25	0	22.20	21.21	21.23	21.20
	64QAM	1	0	22.20	21.37	21.44	21.19
		1	13	22.20	21.50	21.25	21.52
		1	24	22.20	21.37	21.29	21.33
		12	0	21.20	20.26	20.34	20.25
		12	6	21.20	20.23	20.37	20.27
		12	13	21.20	20.24	20.31	20.23
		25	0	21.20	20.18	20.20	20.17
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	22.20	21.29	21.33	21.26
		1	25	22.20	21.29	21.31	21.27
		1	49	22.20	21.25	21.34	21.32
		25	0	22.20	21.33	21.30	21.28
		25	13	22.20	21.33	21.27	21.27
		25	25	22.20	21.32	21.30	21.27
		50	0	22.20	21.26	21.25	21.21
	16QAM	1	0	22.20	21.28	21.58	21.31
		1	25	22.20	21.53	21.54	21.29
		1	49	22.20	21.24	21.49	21.37
		25	0	22.20	21.24	21.21	21.19
		25	13	22.20	21.20	21.25	21.20
		25	25	22.20	21.26	21.20	21.20
		50	0	22.20	21.21	21.17	21.29
	64QAM	1	0	22.20	21.15	21.45	21.38
		1	25	22.20	21.34	21.50	21.71
		1	49	22.20	21.40	21.54	21.51
		25	0	21.20	20.23	20.25	20.20
		25	13	21.20	20.27	20.23	20.27
		25	25	21.20	20.25	20.24	20.23
		50	0	21.20	20.24	20.22	20.32

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	22.20	21.21	21.32	21.24
		1	38	22.20	21.22	21.34	21.23
		1	74	22.20	21.20	21.34	21.27
		36	0	22.20	21.32	21.36	21.40
		36	18	22.20	21.31	21.30	21.40
		36	39	22.20	21.30	21.28	21.40
		75	0	22.20	21.30	21.31	21.28
	16QAM	1	0	22.20	21.55	21.48	21.36
		1	38	22.20	21.25	21.32	21.34
		1	74	22.20	21.52	21.28	21.49
		36	0	22.20	21.38	21.24	21.21
		36	18	22.20	21.35	21.22	21.26
		36	39	22.20	21.33	21.26	21.26
		75	0	22.20	21.19	21.20	21.19
	64QAM	1	0	22.20	21.37	21.41	21.31
		1	38	22.20	21.29	21.33	21.44
		1	74	22.20	21.23	21.42	21.32
		36	0	21.20	20.36	20.31	20.35
		36	18	21.20	20.39	20.28	20.32
		36	39	21.20	20.39	20.26	20.31
		75	0	21.20	20.21	20.24	20.24
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
20MHz	QPSK	1	0	22.20	21.01	21.19	21.07
		1	50	22.20	21.02	<b>21.20</b>	21.08
		1	99	22.20	21.02	21.17	21.05
		50	0	22.20	<b>21.35</b>	<b>21.45</b>	21.28
		50	25	22.20	21.35	21.45	21.29
		50	50	22.20	21.34	21.45	<b>21.32</b>
		100	0	22.20	21.33	21.29	21.31
	16QAM	1	0	22.20	21.35	21.24	21.48
		1	50	22.20	21.54	21.20	21.33
		1	99	22.20	21.22	21.45	21.51
		50	0	22.20	21.28	21.32	21.25
		50	25	22.20	21.29	21.30	21.24
		50	50	22.20	21.29	21.29	21.24
		100	0	22.20	21.26	21.23	21.19
	64QAM	1	0	22.20	21.26	21.12	21.36
		1	50	22.20	21.09	21.13	21.16
		1	99	22.20	21.48	21.28	21.35
		50	0	21.20	20.37	20.32	20.29
		50	25	21.20	20.37	20.38	20.26
		50	50	21.20	20.35	20.37	20.30
		100	0	21.20	20.27	20.30	20.25
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
20MHz	QPSK	1	0	22.20	21.01	21.19	21.07
		1	50	22.20	21.02	<b>21.20</b>	21.08
		1	99	22.20	21.02	21.17	21.05
		50	0	22.20	<b>21.35</b>	<b>21.45</b>	21.28
		50	25	22.20	21.35	21.45	21.29
		50	50	22.20	21.34	21.45	<b>21.32</b>
		100	0	22.20	21.33	21.29	21.31
	16QAM	1	0	22.20	21.35	21.24	21.48
		1	50	22.20	21.54	21.20	21.33
		1	99	22.20	21.22	21.45	21.51
		50	0	22.20	21.28	21.32	21.25
		50	25	22.20	21.29	21.30	21.24
		50	50	22.20	21.29	21.29	21.24
		100	0	22.20	21.26	21.23	21.19
	64QAM	1	0	22.20	21.26	21.12	21.36
		1	50	22.20	21.09	21.13	21.16
		1	99	22.20	21.48	21.28	21.35
		50	0	21.20	20.37	20.32	20.29
		50	25	21.20	20.37	20.38	20.26
		50	50	21.20	20.35	20.37	20.30
		100	0	21.20	20.27	20.30	20.25

Table 50: Conducted power measurement results of LTE Band 4(Full Power)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel	
				Max.	19957CH	20175CH	20393CH	
1.4MHz	QPSK	1	0	15.20	14.22	14.38	14.26	
		1	3	15.20	14.25	14.35	14.28	
		1	5	15.20	14.25	14.37	14.31	
		3	0	15.20	14.15	14.27	14.18	
		3	2	15.20	14.27	14.26	14.20	
		3	3	15.20	14.20	14.24	14.14	
	16QAM	6	0	15.20	14.27	14.11	14.03	
		1	0	15.20	14.52	14.44	14.49	
		1	3	15.20	14.38	14.35	14.35	
		1	5	15.20	14.46	14.37	14.33	
		3	0	15.20	14.25	14.07	14.13	
		3	2	15.20	14.20	14.15	13.99	
	64QAM	3	3	15.20	14.24	14.16	14.05	
		6	0	15.20	14.02	14.10	14.08	
		1	0	15.20	14.32	14.40	14.39	
		1	3	15.20	14.30	14.49	14.47	
		1	5	15.20	14.45	14.31	14.45	
		3	0	15.20	14.17	14.08	14.11	
	3MHz	QPSK	3	2	15.20	14.24	14.21	14.27
			3	3	15.20	14.26	14.23	14.21
			6	0	15.20	13.61	14.19	14.18
1			0	15.20	14.20	14.32	14.32	
1			7	15.20	14.20	14.29	14.33	
1			14	15.20	14.27	14.30	14.20	
8			0	15.20	14.30	14.17	14.20	
16QAM		8	4	15.20	14.11	14.20	14.09	
		8	7	15.20	14.22	14.20	14.13	
		15	0	15.20	14.21	14.26	14.25	
		1	0	15.20	14.24	14.44	14.49	
		1	7	15.20	14.42	14.32	14.36	
		1	14	15.20	14.45	14.43	14.44	
		8	0	15.20	14.12	14.24	14.04	
64QAM		8	4	15.20	14.22	14.16	14.33	
	8	7	15.20	14.19	14.17	14.05		
	15	0	15.20	14.10	14.21	14.14		
	1	0	15.20	14.32	14.37	14.59		
	1	7	15.20	14.27	14.39	14.38		
	1	14	15.20	14.23	14.36	14.33		
	8	0	15.20	13.56	14.11	14.10		
	8	4	15.20	13.58	14.16	14.08		
		8	7	15.20	13.69	14.24	14.05	
		15	0	15.20	13.62	14.24	14.09	

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	15.20	14.38	14.40	14.34
		1	13	15.20	14.31	14.39	14.37
		1	24	15.20	14.29	14.36	14.39
		12	0	15.20	14.40	14.32	14.36
		12	6	15.20	14.41	14.33	14.26
		12	13	15.20	14.41	14.32	14.36
		25	0	15.20	14.22	14.21	14.30
	16QAM	1	0	15.20	14.51	14.28	14.49
		1	13	15.20	14.53	14.29	14.20
		1	24	15.20	14.46	14.44	14.40
		12	0	15.20	14.17	14.25	14.29
		12	6	15.20	14.19	14.21	14.27
		12	13	15.20	14.18	14.26	14.29
		25	0	15.20	14.12	14.20	14.26
	64QAM	1	0	15.20	14.27	14.43	14.34
		1	13	15.20	14.38	14.18	14.57
		1	24	15.20	14.26	14.35	14.16
		12	0	15.20	13.74	14.27	14.09
		12	6	15.20	13.70	14.27	14.17
		12	13	15.20	13.81	14.27	14.13
		25	0	15.20	13.67	14.18	14.04
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
10MHz	QPSK	1	0	15.20	14.34	14.39	14.41
		1	25	15.20	14.39	14.42	14.28
		1	49	15.20	14.36	14.41	14.35
		25	0	15.20	14.36	14.30	14.30
		25	13	15.20	14.37	14.29	14.38
		25	25	15.20	14.38	14.29	14.39
		50	0	15.20	14.29	14.26	14.20
	16QAM	1	0	15.20	14.43	14.47	14.34
		1	25	15.20	14.34	14.36	14.24
		1	49	15.20	14.45	14.40	14.33
		25	0	15.20	14.17	14.16	14.31
		25	13	15.20	14.15	14.17	14.31
		25	25	15.20	14.23	14.16	14.33
		50	0	15.20	14.12	14.15	14.25
	64QAM	1	0	15.20	14.38	14.30	14.34
		1	25	15.20	14.30	14.51	14.12
		1	49	15.20	14.38	14.34	14.46
		25	0	15.20	13.78	14.19	14.12
		25	13	15.20	13.80	14.19	14.14
		25	25	15.20	13.76	14.17	14.13
		50	0	15.20	13.70	14.23	14.14
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20025CH	20175CH	20325CH
15MHz	QPSK	1	0	15.20	14.40	14.25	14.26
		1	38	15.20	14.40	14.32	14.27
		1	74	15.20	14.43	14.31	14.28
		36	0	15.20	14.41	14.37	14.25
		36	18	15.20	14.41	14.36	14.28
		36	39	15.20	14.42	14.37	14.26
		75	0	15.20	14.22	14.24	14.29
	16QAM	1	0	15.20	14.47	14.31	14.37
		1	38	15.20	14.49	14.48	14.26
		1	74	15.20	14.46	14.25	14.32
		36	0	15.20	14.23	14.26	14.16
		36	18	15.20	14.21	14.26	14.17
		36	39	15.20	14.21	14.26	14.15
		75	0	15.20	14.18	14.17	14.16
	64QAM	1	0	15.20	14.22	14.25	14.47
		1	38	15.20	14.21	14.17	14.40
		1	74	15.20	14.42	14.42	14.30
		36	0	15.20	13.84	14.26	14.18
		36	18	15.20	13.84	14.24	14.21
		36	39	15.20	13.86	14.25	14.24
		75	0	15.20	13.94	14.21	14.10
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20050CH	20175CH	20300CH
20MHz	QPSK	1	0	15.20	<b>14.24</b>	14.10	14.05
		1	50	15.20	14.19	14.04	14.03
		1	99	15.20	14.21	14.00	14.06
		50	0	15.20	<b>14.45</b>	14.42	14.24
		50	25	15.20	14.44	14.42	14.25
		50	50	15.20	14.45	<b>14.43</b>	<b>14.25</b>
		100	0	15.20	14.26	14.28	14.31
	16QAM	1	0	15.20	14.46	14.04	14.20
		1	50	15.20	14.33	14.02	14.12
		1	99	15.20	14.29	14.05	14.05
		50	0	15.20	14.24	14.36	14.20
		50	25	15.20	14.23	14.32	14.17
		50	50	15.20	14.30	14.33	14.12
		100	0	15.20	14.25	14.32	14.19
	64QAM	1	0	15.20	14.13	14.08	14.23
		1	50	15.20	14.24	14.12	14.27
		1	99	15.20	14.19	14.21	14.23
		50	0	15.20	13.89	14.20	14.20
		50	25	15.20	13.91	14.22	14.22
		50	50	15.20	13.90	14.20	14.23
		100	0	15.20	14.05	14.21	14.18

Table 51: Conducted power measurement results of LTE Band 4(Reduced Power Level D1)

Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19957CH	20175CH	20393CH
1.4MHz	QPSK	1	0	12.20	11.31	11.35	11.26
		1	3	12.20	11.33	11.39	11.29
		1	5	12.20	11.29	11.34	11.28
		3	0	12.20	11.10	11.31	11.24
		3	2	12.20	11.17	11.26	11.22
		3	3	12.20	11.06	11.38	11.31
		6	0	12.20	11.12	11.28	11.06
	16QAM	1	0	12.20	11.33	11.51	11.33
		1	3	12.20	11.27	11.32	11.46
		1	5	12.20	11.34	11.43	11.22
		3	0	12.20	11.11	11.30	11.13
		3	2	12.20	11.15	11.30	11.15
		3	3	12.20	11.23	11.13	11.14
		6	0	12.20	10.96	11.06	11.07
	64QAM	1	0	12.20	11.21	11.43	11.16
		1	3	12.20	11.10	11.38	11.12
		1	5	12.20	11.27	11.35	11.19
		3	0	12.20	11.35	11.21	11.35
		3	2	12.20	11.18	11.28	11.35
		3	3	12.20	11.34	11.30	11.21
		6	0	12.20	11.17	11.25	11.09
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19965CH	20175CH	20385CH
3MHz	QPSK	1	0	12.20	11.22	11.35	11.27
		1	7	12.20	11.34	11.33	11.22
		1	14	12.20	11.33	11.32	11.18
		8	0	12.20	11.21	11.28	11.16
		8	4	12.20	11.32	11.25	11.17
		8	7	12.20	11.24	11.33	11.19
		15	0	12.20	11.14	11.29	11.24
	16QAM	1	0	12.20	11.20	11.52	11.25
		1	7	12.20	11.35	11.38	11.50
		1	14	12.20	11.32	11.28	11.50
		8	0	12.20	11.22	11.10	11.14
		8	4	12.20	11.24	11.17	11.24
		8	7	12.20	11.17	11.10	11.08
		15	0	12.20	11.22	11.21	11.24
	64QAM	1	0	12.20	11.16	11.15	11.24
		1	7	12.20	11.29	11.35	11.20
		1	14	12.20	11.19	11.25	11.29
		8	0	12.20	11.18	11.16	11.25
		8	4	12.20	11.10	11.13	11.24
		8	7	12.20	11.05	11.21	11.25
		15	0	12.20	11.17	11.21	11.24



Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	19975CH	20175CH	20375CH
5MHz	QPSK	1	0	12.20	11.33	11.23	11.27
		1	13	12.20	11.33	11.22	11.29
		1	24	12.20	11.32	11.23	11.27
		12	0	12.20	11.25	11.37	11.27
		12	6	12.20	11.33	11.37	11.27
		12	13	12.20	11.34	11.38	11.27
		25	0	12.20	11.23	11.32	11.15
	16QAM	1	0	12.20	11.50	11.18	11.13
		1	13	12.20	11.47	11.33	11.11
		1	24	12.20	11.47	11.31	11.37
		12	0	12.20	11.42	11.32	11.20
		12	6	12.20	11.32	11.29	11.14
		12	13	12.20	11.32	11.33	11.17
		25	0	12.20	11.25	11.12	11.18
	64QAM	1	0	12.20	11.36	11.34	11.34
		1	13	12.20	11.59	11.43	11.32
		1	24	12.20	11.45	11.38	11.21
		12	0	12.20	11.25	11.30	11.19
		12	6	12.20	11.29	11.31	11.31
		12	13	12.20	11.29	11.27	11.17
		25	0	12.20	11.15	11.15	11.21
Bandwidth	Modulation	RB size	RB offset	Tune-up	Channel	Channel	Channel
				Max.	20000CH	20175CH	20350CH
10MHz	QPSK	1	0	12.20	11.35	11.27	11.25
		1	25	12.20	11.32	11.23	11.26
		1	49	12.20	11.34	11.29	11.24
		25	0	12.20	11.38	11.32	11.16
		25	13	12.20	11.18	11.35	11.18
		25	25	12.20	11.38	11.34	11.28
		50	0	12.20	11.20	11.26	11.19
	16QAM	1	0	12.20	11.42	11.47	11.52
		1	25	12.20	11.37	11.52	11.44
		1	49	12.20	11.38	11.35	11.29
		25	0	12.20	11.30	11.26	11.13
		25	13	12.20	11.30	11.24	11.12
		25	25	12.20	11.26	11.23	11.16
		50	0	12.20	11.05	11.14	11.24
	64QAM	1	0	12.20	11.38	11.46	11.27
		1	25	12.20	11.49	11.50	11.18
		1	49	12.20	11.45	11.50	11.26
		25	0	12.20	11.32	11.25	11.15
		25	13	12.20	11.25	11.27	11.15
		25	25	12.20	11.33	11.26	11.11
		50	0	12.20	11.12	11.15	11.24