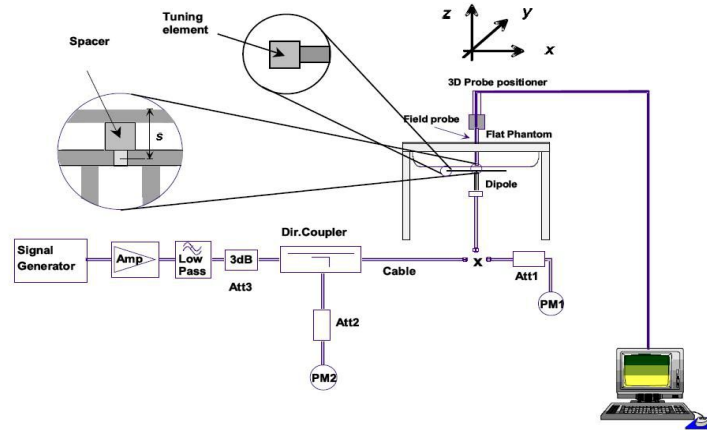


6.9. System Check

The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation. System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Frequency (MHz)	Liquid Type	Measured Value in 100mW (W/kg)		Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
		1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average
750	Body	0.87	0.60	8.70	6.00	8.46	5.81	2.84	3.27
835	Body	0.95	0.63	9.50	6.30	9.62	6.44	-1.25	-2.17
1800	Body	3.78	2.05	37.79	20.46	37.69	20.57	0.27	-0.53
1900	Body	3.77	1.99	37.70	19.90	38.71	20.53	-2.61	-3.07
2450	Body	5.07	2.42	50.70	24.16	50.63	23.40	0.14	3.25
2600	Body	5.37	2.38	53.65	23.81	53.26	23.89	0.73	-0.33
5200	Body	15.90	5.69	159.00	56.90	158.49	55.40	0.32	2.71
5400	Body	16.64	5.84	166.40	58.43	167.20	57.39	-0.48	1.81
5600	Body	17.38	6.00	173.80	59.97	175.65	59.48	-1.05	0.82
5800	Body	18.12	6.15	181.20	61.50	183.06	61.62	-1.02	-0.19

Comparing to the original SAR value provided by MVG, the verification data should be within its specification of 10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Section 10 of this report.

7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band. Read the WWAN RF power level from the base station simulator.

For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.

Connect EUT RF port through RF cable to the power meter or spectrum analyser, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.

Place the EUT in positions as Appendix B demonstrates.

Set scan area, grid size and other setting on the MVG software.

Measure SAR results for the highest power channel on each testing position.

Find out the largest SAR result on these testing positions of each band.

Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power reference measurement

Area scan

Zoom scan

Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The MVG software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values from the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

Power Reference Measurement

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

Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface $\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		≤ 1.5 · $\Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.			
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The

interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In MVG measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.

8. Conducted Output Power

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V		
Channel	9262	9400	9538	1312	1413	1513	4132	4183	4233
Frequency	1852.40	1880.00	1907.60	1712.40	1732.60	1752.60	826.40	836.60	846.60
RMC 12.2Kbps	20.50	20.84	21.08	22.16	21.80	21.81	22.80	22.85	22.69
HSDPA Subtest-1	20.25	20.56	20.85	21.84	21.48	21.52	22.52	22.53	22.44
HSDPA Subtest-2	19.81	20.13	20.38	21.36	21.01	21.00	22.06	22.07	21.97
HSDPA Subtest-3	19.79	20.10	20.36	21.36	21.00	21.01	22.05	22.08	21.98
HSDPA Subtest-4	19.79	20.09	20.37	21.32	20.99	20.98	22.08	22.06	21.94
HSUPA Subtest-1	19.69	20.35	20.60	21.05	21.26	21.26	22.46	22.35	22.19
HSUPA Subtest-2	18.74	19.13	19.45	20.29	19.96	20.00	21.06	20.99	20.96
HSUPA Subtest-3	19.28	19.57	19.89	20.81	20.46	20.52	21.53	21.62	21.47
HSUPA Subtest-4	18.20	18.48	18.81	19.76	19.39	19.45	20.55	20.45	20.46
HSUPA Subtest-5	20.25	20.56	20.86	21.86	21.51	21.51	22.62	22.47	22.44

Note:

1. According to the power listed above, the HSDPA and HSUPA were not determined for SAR testing.
2. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2kbps RMC(reference measurement channel) configuration in test loop mode
3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

WLAN 2.4G						
Mode	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency	2412	2437	2462	2412	2437	2462
Average Power (dBm)	18.24	17.00	18.96	17.99	18.80	18.88
Mode	802.11n(HT20)			802.11n(HT40)		
Channel	1	6	11	3	6	9
Frequency	2412	2437	2462	2422	2437	2452
Average Power (dBm)	17.90	18.63	18.88	17.29	17.68	17.87

Note

1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report

WLAN 5G U-NII-1 (5.150~5.250)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	36	44	48	36	44	48
Frequency	5180	5220	5240	5180	5220	5240
Average Power (dBm)	16.17	16.63	16.57	15.98	16.54	16.40
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	38		46	36	44	48
Frequency	5190		5230	5180	5220	5240
Average Power (dBm)	14.04		14.97	16.17	16.67	16.58
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	38		46	42		
Frequency	5190		5230	5210		
Average Power (dBm)	14.03		15.81	15.68		
WLAN 5G U-NII-2a (5.250~5.350)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	52	60	64	52	60	64
Frequency	5260	5300	5320	5260	5300	5320
Average Power (dBm)	16.22	15.34	13.15	16.16	15.33	13.98
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	54		62	52	60	64
Frequency	5270		5310	5260	5300	5320
Average Power (dBm)	14.81		14.21	16.32	15.39	14.93
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	54		62	58		
Frequency	5270		5310	5290		
Average Power (dBm)	15.42		14.22	14.69		
WLAN 5G U-NII-2c (5.470~5.725)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	100	116	140	100	116	140
Frequency	5500	5580	5700	5500	5580	5700
Average Power (dBm)	14.44	15.64	13.60	14.33	15.76	13.37
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	102	110	134	100	116	140
Frequency	5510	5550	5670	5500	5580	5700
Average Power (dBm)	15.35	16.20	14.35	14.88	15.85	15.00
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	102	110	134	106		122
Frequency	5510	5550	5670	5530		5610
Average Power (dBm)	15.51	16.17	14.31	14.34		13.49
WLAN 5G U-NII-3 (5.725~5.850)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	149	157	165	149	157	165
Frequency	5745	5785	5825	5745	5785	5825
Average Power (dBm)	15.29	15.47	16.13	15.23	15.54	16.11

Mode	IEEE 802.11n HT40		IEEE 802.11ac VHT20		
Channel	151	159	149	157	165
Frequency	5755	5795	5745	5785	5825
Average Power (dBm)	16.21	16.43	15.26	15.44	16.04
Mode	IEEE 802.11ac VHT40		IEEE 802.11ac VHT80		
Channel	151	159	155		
Frequency	5755	5795	5775		
Average Power (dBm)	14.69	15.05	13.24		

Bluetooth						
Mode	GFSK			Pi/4DQPSK		
Channel	1	40	79	1	40	79
Frequency	2402	2441	2480	2402	2441	2480
Average Power (dBm)	6.91	6.89	8.49	7.01	6.87	8.46
Mode	8DPSK			BLE(Up: 1Mbps, Down: Up: 2Mbps)		
Channel	1	40	79	0	20	39
Frequency	2402	2441	2480	2402	2440	2480
Average Power (dBm)	6.82	6.94	8.69	-0.01	-10.09	-8.58
				-7.40	-7.35	-5.79

BT

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
79	2480	9.00	7.94	1.0	10.17	No
79	2480	9.00	7.94	2.5	58.28	No

2.4G

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
11	2462	19.00	79.43	1.0	10.22	Yes
11	2462	19.00	79.43	2.5	58.47	Yes

5G U-NII-1

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
44	5220	17.00	50.12	1.0	6.27	Yes
44	5220	17.00	50.12	2.5	41.65	Yes

U-NII-2a

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
52	5260	16.50	44.67	1.0	6.24	Yes
52	5260	16.50	44.67	2.5	41.50	Yes

U-NII-2c

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
110	5550	16.50	44.67	1.0	6.02	Yes
110	5550	16.50	44.67	2.5	40.51	Yes

U-NII-3

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
159	5795	16.50	44.67	1.0	5.86	Yes
159	5795	16.50	44.67	2.5	39.73	Yes

Note

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances ≤ 40 cm are determined by:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

- Base on the result of note1, RF exposure evaluation of BT is not required.
- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

LTE Band 2

Conducted Power of LTE Band 2								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				18607	18900	19193		
1.4MHz	QPSK	1	0	20.85	21.16	21.50		
			2	20.92	21.21	21.43		
			5	20.83	21.17	21.39		
		3	0	20.86	21.20	21.34		
			1	20.89	21.19	21.33		
			3	20.83	21.14	21.33		
		6	0	19.75	20.24	20.41		
			16QAM	1	0	20.11	20.43	20.36
					2	20.20	20.53	20.40
	5	20.11			20.36	20.32		
	3	0		19.87	20.21	20.29		
		1		19.87	20.19	20.23		
		3		19.75	20.17	20.26		
	6	0	19.02	19.33	19.41			
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
		3MHz	QPSK	1	0	20.72	21.27	21.38
	8				20.77	21.28	21.39	
	14				20.72	21.22	21.46	
8	0			19.83	20.26	20.42		
	4			19.83	20.29	20.43		
	7			19.82	20.24	20.46		
15	0			19.80	20.28	20.40		
	16QAM			1	0	20.04	20.50	20.35
					8	20.10	20.50	20.44
14			20.05		20.42	20.40		
8			0	18.93	19.36	19.50		
			4	18.95	19.36	19.50		
			7	18.95	19.31	19.49		
15			0	18.91	19.25	19.39		

Conducted Power of LTE Band 2								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				18625	18900	19175		
5MHz	QPSK	1	0	20.84	21.33	21.39		
			12	20.94	21.36	21.53		
			24	20.89	21.23	21.45		
		12	0	19.85	20.27	20.39		
			6	19.84	20.29	20.39		
			13	19.79	20.24	20.39		
		25	0	19.82	20.27	20.38		
		16QAM	1	0	19.95	20.60	20.48	
				12	20.08	20.68	20.61	
	24			19.95	20.52	20.54		
	12		0	18.88	19.38	19.45		
			6	18.89	19.41	19.45		
			13	18.92	19.38	19.46		
	25		0	18.91	19.29	19.48		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						18650	18900	19150
	10MHz	QPSK	1	0	20.81	21.44	21.22	
				24	20.84	21.24	21.37	
49				20.99	21.23	21.40		
25			0	19.81	20.31	20.36		
			12	19.81	20.31	20.36		
			25	19.94	20.23	20.40		
50			0	19.87	20.25	20.35		
16QAM			1	0	20.15	20.65	20.24	
				24	20.16	20.54	20.34	
		49		20.22	20.47	20.37		
		25	0	18.89	19.38	19.40		
			12	18.93	19.40	19.41		
			25	18.95	19.30	19.47		
		50	0	18.97	19.34	19.39		

Conducted Power of LTE Band 2								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				18675	18900	19125		
15MHz	QPSK	1	0	20.65	21.29	21.14		
			38	20.93	21.23	21.31		
			74	21.09	21.16	21.41		
		38	0	19.91	20.27	20.31		
			18	20.03	20.26	20.33		
			37	19.99	20.26	20.33		
		75	0	19.99	20.26	20.32		
			16QAM	1	0	20.06	20.68	20.07
					38	20.21	20.66	20.32
	74	20.28			20.49	20.42		
	38	0	19.90	20.27	20.33			
		18	19.99	20.26	20.33			
		37	20.03	20.26	20.34			
	75	0	19.05	19.33	19.40			
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
18700					18900	19100		
20MHz	QPSK	1	0	20.85	21.44	20.88		
			49	21.17	21.29	21.16		
			99	21.47	21.25	21.27		
		50	0	19.97	20.33	20.09		
			25	19.98	20.34	20.12		
			50	20.29	20.19	20.37		
		100	0	20.25	20.28	20.20		
		16QAM	1	0	20.09	20.60	20.09	
				49	20.23	20.58	20.31	
	99			20.47	20.44	20.52		
	50		0	19.05	19.37	19.16		
			25	19.05	19.38	19.17		
			50	19.34	19.31	19.44		
	100	0	19.30	19.32	19.24			

LTE Band 4

Conducted Power of LTE Band 4							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				19957	20175	20393	
1.4MHz	QPSK	1	0	21.84	21.74	21.72	
			2	21.85	21.73	21.77	
			5	21.82	21.70	21.72	
		3	0	21.81	21.71	21.73	
			1	21.80	21.71	21.71	
			3	21.79	21.70	21.71	
	6	0	20.84	20.71	20.72		
	16QAM	1	0	21.00	20.91	20.74	
			2	21.16	21.03	20.76	
			5	21.04	20.95	20.71	
		3	0	20.83	20.75	20.67	
			1	20.82	20.75	20.67	
			3	20.82	20.73	20.64	
	6	0	19.95	19.71	19.84		
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					19965	20175	20385
	3MHz	QPSK	1	0	21.76	21.78	21.78
				8	21.87	21.78	21.76
14				21.81	21.77	21.70	
8			0	20.91	20.75	20.83	
			4	20.87	20.75	20.83	
			7	20.88	20.72	20.79	
15		0	20.87	20.75	20.81		
16QAM		1	0	21.08	21.00	20.74	
			8	21.11	20.96	20.76	
			14	21.08	20.89	20.72	
		8	0	20.01	19.87	19.86	
			4	19.99	19.88	19.84	
			7	20.03	19.85	19.88	
15		0	20.02	19.78	19.76		

Conducted Power of LTE Band 4							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				19975	20175	20375	
5MHz	QPSK	1	0	21.94	21.81	21.85	
			12	22.00	21.88	21.92	
			24	21.91	21.77	21.81	
		12	0	20.87	20.77	20.81	
			6	20.87	20.78	20.78	
			13	20.89	20.72	20.78	
	25	0	20.91	20.75	20.78		
	16QAM	1	0	21.01	21.10	20.88	
			12	21.13	21.15	21.02	
			24	20.98	21.07	20.86	
		12	0	19.99	19.92	19.88	
			6	19.97	19.91	19.88	
			13	19.96	19.87	19.86	
		25	0	20.01	19.83	19.93	
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel
20000						20175	20350
10MHz	QPSK	1	0	21.84	21.83	21.71	
			25	21.84	21.78	21.76	
			49	21.79	21.70	21.70	
		25	0	20.95	20.82	20.78	
			12	20.95	20.83	20.78	
			25	20.85	20.76	20.80	
	50	0	20.91	20.78	20.76		
	16QAM	1	0	21.15	21.09	20.72	
			25	21.17	21.02	20.74	
			49	21.08	20.97	20.72	
		25	0	20.02	19.94	19.91	
			12	20.02	19.94	19.89	
			25	19.94	19.84	19.84	
		50	0	19.98	19.90	19.84	

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	21.89	21.84	21.78
			38	21.93	21.77	21.77
			74	21.76	21.70	21.74
		38	0	20.98	20.78	20.87
			18	20.98	20.78	20.86
			37	20.97	20.78	20.86
	75	0	20.97	20.78	20.86	
	16QAM	1	0	21.26	21.22	20.79
			38	21.26	21.12	20.79
			74	21.09	21.09	20.72
		38	0	20.98	20.78	20.87
			18	20.98	20.78	20.86
			37	20.97	20.78	20.86
		75	0	20.05	19.91	19.99
Bandwidth		Modulation	RB size	RB offset	Channel	Channel
	20050				20175	20300
20MHz	QPSK	1	0	22.02	21.98	21.61
			50	22.00	21.84	21.59
			99	21.84	21.78	21.66
		50	0	21.02	20.87	20.77
			25	21.01	20.88	20.78
			50	20.90	20.80	20.81
	100	0	20.93	20.85	20.86	
	16QAM	1	0	21.14	21.22	20.82
			50	21.14	21.07	20.79
			99	20.90	21.01	20.81
		50	0	20.10	20.01	19.92
			25	20.09	19.99	19.92
			50	19.98	19.88	19.93
		100	0	20.02	19.92	19.95

LTE Band 5

Conducted Power of LTE Band 5								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				20407	20252	20643		
1.4MHz	QPSK	1	0	22.43	22.46	22.12		
			2	22.43	22.47	22.20		
			5	22.42	22.50	22.10		
		3	0	22.45	22.51	22.16		
			1	22.51	22.52	22.15		
			3	22.44	22.46	22.15		
		6	0	21.45	21.53	21.15		
		16QAM	1	0	21.74	21.69	21.12	
				2	21.84	21.79	21.17	
	5			21.74	21.77	21.09		
	3		0	21.49	21.54	21.09		
			1	21.51	21.52	21.07		
			3	21.49	21.50	21.04		
	6		0	20.58	20.47	20.24		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						20415	20252	20635
	3MHz	QPSK	1	0	22.43	22.52	22.27	
				8	22.41	22.51	22.18	
14				22.46	22.53	22.15		
8			0	21.53	21.56	21.27		
			4	21.52	21.57	21.31		
			7	21.47	21.56	21.22		
15			0	21.59	21.57	21.24		
16QAM			1	0	21.85	21.77	21.21	
				8	21.83	21.81	21.20	
		14		21.77	21.75	21.16		
		8	0	20.70	20.61	20.34		
			4	20.71	20.61	20.36		
			7	20.65	20.64	20.33		
		15	0	20.66	20.58	20.30		

Conducted Power of LTE Band 5								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				20425	20525	20625		
5MHz	QPSK	1	0	22.61	22.64	22.38		
			12	22.62	22.69	22.39		
			24	22.53	22.56	22.21		
		12	0	21.62	21.62	21.37		
			6	21.63	21.57	21.33		
			13	21.51	21.54	21.22		
		25	0	21.59	21.63	21.28		
		16QAM	1	0	21.70	21.95	21.47	
				12	21.79	22.02	21.44	
	24			21.70	21.87	21.32		
	12		0	20.68	20.72	20.44		
			6	20.68	20.71	20.43		
			13	20.62	20.70	20.39		
	25		0	20.68	20.64	20.38		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						20450	20525	20600
	10MHz	QPSK	1	0	22.49	22.53	22.40	
				24	22.43	22.51	22.35	
49				22.40	22.46	22.15		
25			0	21.58	21.62	21.43		
			12	21.55	21.63	21.44		
			25	21.58	21.52	21.34		
50			0	21.57	21.59	21.39		
16QAM			1	0	21.81	21.86	21.43	
				24	21.81	21.83	21.30	
		49		21.73	21.76	21.19		
		25	0	20.66	20.67	20.50		
			12	20.66	20.69	20.51		
			25	20.61	20.66	20.41		
		50	0	20.64	20.66	20.41		

LTE Band 7

Conducted Power of LTE Band 7								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				20775	21100	21425		
5MHz	QPSK	1	0	21.14	21.24	21.05		
			12	21.28	21.33	21.18		
			24	21.23	21.31	21.14		
		12	0	20.11	20.18	20.01		
			6	20.12	20.20	20.02		
			13	20.18	20.24	20.03		
		25	0	20.12	20.16	19.96		
			16QAM	1	0	20.38	20.14	20.23
					12	20.51	20.29	20.31
	24	20.50			20.22	20.27		
	12	0	19.15	19.17	19.02			
		6	19.13	19.14	19.03			
		13	19.18	19.19	19.05			
	25	0	19.13	19.14	18.93			
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
						20800	21100	21400
	10MHz	QPSK	1	0	21.09	21.23	21.05	
				24	21.13	21.27	20.99	
49				21.22	21.18	21.09		
25			0	20.16	20.22	20.06		
			12	20.20	20.21	20.08		
			25	20.23	20.25	20.06		
50			0	20.18	20.17	20.05		
			16QAM	1	0	20.32	20.27	19.98
					24	20.40	20.28	19.97
49		20.52			20.31	20.02		
25		0	19.15	19.19	19.06			
		12	19.16	19.20	19.05			
		25	19.24	19.27	19.06			
50		0	19.21	19.22	19.08			

Conducted Power of LTE Band 7								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				20825	21100	21375		
15MHz	QPSK	1	0	21.10	21.24	21.05		
			38	21.15	21.30	21.10		
			74	21.27	21.26	21.13		
		38	0	20.26	20.30	20.06		
			18	20.23	20.27	20.06		
			37	20.19	20.26	20.04		
		75	0	20.26	20.27	20.04		
		16QAM	1	0	20.30	20.43	20.03	
				38	20.45	20.44	20.03	
	74			20.58	20.53	20.03		
	38		0	20.26	20.27	20.05		
			18	20.27	20.28	20.04		
			37	20.26	20.29	20.04		
	75		0	19.25	19.33	19.12		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						20850	21100	21350
	20MHz	QPSK	1	0	21.20	21.24	20.97	
				49	21.25	21.31	20.93	
99				21.25	21.18	20.99		
50			0	20.22	20.17	20.18		
			25	20.24	20.18	20.16		
			50	20.22	20.29	20.11		
100			0	20.17	20.27	20.15		
16QAM			1	0	20.24	20.35	20.20	
				49	20.40	20.38	20.10	
		99		20.32	20.37	20.08		
		25	0	19.20	19.17	19.27		
			25	19.20	19.18	19.29		
			50	19.20	19.31	19.14		
		50	0	19.19	19.24	19.20		

LTE Band 12

Conducted Power of LTE Band 12								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				23017	23095	23173		
1.4MHz	QPSK	1	0	22.66	22.77	22.61		
			2	22.66	22.79	22.68		
			5	22.61	22.76	22.67		
		3	0	22.74	22.66	22.68		
			1	22.74	22.72	22.71		
			3	22.75	22.74	22.71		
		6	0	21.64	21.82	21.69		
			16QAM	1	0	21.90	21.85	21.60
					2	22.02	21.92	21.65
	5	21.94			21.84	21.59		
	3	0	21.76	21.71	21.66			
		1	21.79	21.71	21.65			
		3	21.69	21.61	21.59			
	6	0	20.80	20.72	20.71			
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
						23025	23095	23165
	3MHz	QPSK	1	0	22.69	22.84	22.67	
				8	22.63	22.81	22.65	
14				22.70	22.82	22.69		
8			0	21.72	21.84	21.78		
			4	21.72	21.85	21.76		
			7	21.83	21.84	21.74		
15			0	21.85	21.82	21.78		
			16QAM	1	0	21.98	21.91	21.70
					8	21.99	21.94	21.66
14		22.07			21.89	21.66		
8		0	20.88	20.85	20.85			
		4	20.88	20.85	20.86			
		7	21.00	20.87	20.83			
15		0	20.95	20.79	20.80			

Conducted Power of LTE Band 12								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				23035	23095	23155		
5MHz	QPSK	1	0	22.78	22.75	22.71		
			12	22.92	22.97	22.86		
			24	22.77	22.85	22.74		
		12	0	21.88	21.85	21.72		
			6	21.89	21.84	21.64		
			13	21.84	21.77	21.75		
		25	0	21.86	21.79	21.64		
		16QAM	1	0	21.90	22.02	21.80	
				12	22.04	22.08	21.99	
	24			21.92	21.98	21.77		
	12		0	20.97	20.91	20.86		
			6	20.97	20.91	20.78		
			13	20.91	20.88	20.86		
	25		0	20.95	20.81	20.77		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						23060	23095	23130
	10MHz	QPSK	1	0	22.70	22.72	22.82	
				24	22.69	22.85	22.68	
49				22.74	22.70	22.75		
25			0	21.89	21.85	21.83		
			12	21.89	21.86	21.86		
			25	21.88	21.75	21.80		
50			0	21.91	21.86	21.83		
16QAM			1	0	22.00	22.07	21.79	
				24	21.99	21.92	21.71	
		49		21.91	21.96	21.79		
		25	0	20.94	20.93	20.87		
			12	20.94	20.93	20.88		
			25	20.87	20.87	20.90		
		50	0	20.99	20.89	20.84		

LTE Band 13

Conducted Power of LTE Band 13								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				23205	23230	23255		
5MHz	QPSK	1	0	22.92	23.04	22.87		
			12	23.08	23.02	22.99		
			24	22.94	22.96	22.97		
		12	0	21.89	21.96	21.85		
			6	21.88	21.97	21.81		
			13	21.90	21.91	21.88		
		25	0	21.95	21.96	21.83		
		16QAM	1	0	21.95	22.03	22.14	
				12	22.13	22.15	22.25	
	24			22.10	22.01	22.10		
	12		0	20.90	21.06	20.98		
			6	20.91	21.04	21.00		
			13	21.00	21.03	20.95		
	25		0	20.97	21.04	20.88		
	Bandwidth		Modulation	RB size	RB offset	Channel		
	10MHz		QPSK	1	0	23230		
		24			22.79			
		49			22.83			
25		0		22.98				
		12		21.96				
		25		21.93				
50		0		21.90				
16QAM		1		0	21.92			
				24	22.07			
			49	22.22				
		25	0	22.11				
			12	21.03				
			25	21.01				
		50	0	20.98				
		50	0	21.03				

LTE Band 17

Conducted Power of LTE Band 17						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	22.74	22.90	22.79
			12	22.91	22.94	22.81
			24	22.87	22.85	22.70
		12	0	21.86	21.94	21.72
			6	21.87	21.91	21.74
			13	21.91	21.85	21.66
	25	0	21.92	21.86	21.75	
	16QAM	1	0	21.80	22.09	21.85
			12	21.93	22.18	21.92
			24	21.93	22.13	21.83
		12	0	20.86	20.91	20.86
			6	20.86	20.92	20.86
			13	20.85	20.93	20.79
	25	0	20.92	20.86	20.84	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel
23780					23790	23800
10MHz	QPSK	1	0	22.64	22.75	22.78
			24	22.79	22.82	22.86
			49	22.74	22.71	22.73
		25	0	21.93	21.90	21.88
			12	21.95	21.92	21.89
			25	21.88	21.88	21.87
	50	0	21.91	21.85	21.91	
	16QAM	1	0	21.97	22.00	21.76
			24	22.04	22.07	21.79
			49	22.08	22.00	21.78
		25	0	20.93	20.93	20.92
			12	20.93	20.93	20.94
			25	20.93	20.97	20.98
	50	0	20.91	20.97	20.91	

LTE Band 25

Conducted Power of LTE Band 25								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				26047	26365	26683		
1.4MHz	QPSK	1	0	20.92	21.14	21.50		
			2	21.01	21.17	21.52		
			5	20.94	21.09	21.50		
		3	0	20.90	21.12	21.38		
			1	20.91	21.12	21.40		
			3	20.89	21.09	21.43		
	6	0	19.90	20.11	20.66			
	16QAM	1	0	20.19	20.09	20.57		
			2	20.28	20.16	20.68		
			5	20.15	20.08	20.59		
		3	0	19.92	20.07	20.44		
			1	19.92	20.08	20.36		
			3	19.88	20.03	20.36		
	6	0	19.02	19.16	19.51			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
3MHz	QPSK	1	0	20.94	21.25	21.64		
			8	20.99	21.21	21.60		
			14	21.01	21.22	21.59		
		8	0	20.04	20.21	20.66		
			4	20.04	20.24	20.62		
			7	20.05	20.24	20.67		
		15	0	20.08	20.21	20.60		
		16QAM	1	0	20.27	20.46	20.51	
				8	20.30	20.45	20.50	
	14			20.24	20.40	20.51		
	8		0	19.17	19.37	19.60		
			4	19.13	19.37	19.61		
			7	19.15	19.32	19.64		
	15		0	19.11	19.24	19.47		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
	3MHz		QPSK	1	0	20.94	21.25	21.64
		8			20.99	21.21	21.60	
		14			21.01	21.22	21.59	
8		0		20.04	20.21	20.66		
		4		20.04	20.24	20.62		
		7		20.05	20.24	20.67		
15		0		20.08	20.21	20.60		
16QAM		1		0	20.27	20.46	20.51	
				8	20.30	20.45	20.50	
			14	20.24	20.40	20.51		
		8	0	19.17	19.37	19.60		
			4	19.13	19.37	19.61		
			7	19.15	19.32	19.64		
		15	0	19.11	19.24	19.47		

Conducted Power of LTE Band 25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				26065	26365	26665		
5MHz	QPSK	1	0	21.12	21.38	21.65		
			12	21.18	21.40	21.69		
			24	21.13	21.28	21.67		
		12	0	20.07	20.29	20.56		
			6	20.04	20.31	20.58		
			13	20.09	20.22	20.60		
		25	0	20.06	20.25	20.57		
		16QAM	1	0	20.23	20.67	20.68	
				12	20.25	20.64	20.69	
	24			20.22	20.53	20.66		
	12		0	19.16	19.39	19.64		
			6	19.17	19.40	19.64		
			13	19.11	19.30	19.60		
	25		0	19.17	19.26	19.68		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						26090	26365	26640
	10MHz	QPSK	1	0	21.23	21.54	21.51	
				24	21.01	21.21	21.48	
49				21.36	21.41	21.58		
25			0	20.09	20.30	20.52		
			12	20.10	20.30	20.50		
			25	20.19	20.23	20.59		
50			0	20.11	20.23	20.54		
16QAM			1	0	20.57	20.85	20.47	
				24	20.31	20.53	20.51	
		49		20.60	20.60	20.53		
		25	0	19.15	19.43	19.62		
			12	19.19	19.43	19.56		
			25	19.17	19.31	19.63		
		50	0	19.19	19.37	19.61		

Conducted Power of LTE Band 25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				26115	26365	26615	
15MHz	QPSK	1	0	20.96	21.42	21.45	
			38	20.99	21.20	21.51	
			74	21.22	21.22	21.65	
		38	0	20.10	20.31	20.58	
			18	20.11	20.30	20.56	
			37	20.13	20.30	20.56	
		75	0	20.11	20.30	20.58	
		16QAM	1	0	20.28	20.81	20.48
				38	20.23	20.63	20.46
	74			20.41	20.53	20.57	
	38		0	20.11	20.30	20.56	
			18	20.11	20.30	20.56	
			37	20.15	20.30	20.58	
	75	0	19.14	19.41	19.66		
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
26140					26365	26590	
20MHz	QPSK	1	0	21.25	21.72	21.39	
			49	21.20	21.30	21.35	
			99	21.61	21.50	21.58	
		50	0	20.10	20.44	20.59	
			25	20.12	20.43	20.54	
			50	20.35	20.26	20.58	
		100	0	20.32	20.36	20.62	
		16QAM	1	0	20.35	20.93	20.51
				49	20.27	20.52	20.54
	99			20.70	20.69	20.67	
	50		0	19.17	19.48	19.64	
			25	19.17	19.47	19.62	
			50	19.40	19.36	19.68	
	100		0	19.37	19.38	19.67	

LTE Band 26

Conducted Power of LTE Band 26						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26697	26740	26783
1.4MHz	QPSK	1	0	22.58	22.47	22.36
			2	22.57	22.51	22.42
			5	22.59	22.50	22.47
		3	0	22.65	22.51	22.41
			1	22.64	22.50	22.48
			3	22.56	22.52	22.54
	16QAM	1	0	21.83	21.68	21.66
			2	21.87	21.84	21.78
			5	21.75	21.72	21.71
		3	0	21.59	21.54	21.48
			1	21.59	21.54	21.46
			3	21.57	21.51	21.49
6	0	20.72	20.48	20.64		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26705	26740	26775
3MHz	QPSK	1	0	22.58	22.64	22.54
			8	22.55	22.56	22.44
			14	22.57	22.56	22.55
		8	0	21.69	21.58	21.48
			4	21.67	21.60	21.49
			7	21.60	21.57	21.61
	15	0	21.64	21.61	21.57	
	16QAM	1	0	21.89	21.84	21.50
			8	21.88	21.81	21.48
			14	21.78	21.79	21.56
		8	0	20.76	20.69	20.62
			4	20.76	20.68	20.63
			7	20.71	20.64	20.67
		15	0	20.72	20.61	20.65

Conducted Power of LTE Band 26

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				26715	26740	26765		
5MHz	QPSK	1	0	22.73	22.68	22.62		
			12	22.69	22.71	22.62		
			24	22.60	22.59	22.51		
		12	0	21.71	21.65	21.57		
			6	21.70	21.65	21.57		
			13	21.62	21.53	21.52		
		25	0	21.69	21.62	21.54		
		16QAM	1	0	21.82	21.96	21.71	
				12	21.83	22.04	21.77	
	24			21.71	21.91	21.67		
	12		0	20.72	20.80	20.74		
			6	20.73	20.74	20.74		
			13	20.69	20.70	20.63		
	25		0	20.74	20.68	20.69		
	Bandwidth		Modulation	RB size	RB offset	Channel		
	10MHz		QPSK	1	0	22.61		
		24			22.52			
		49			22.41			
25		0		21.70				
		12		21.65				
		25		21.57				
50		0		21.63				
16QAM		1		0	21.94			
				24	21.80			
			49	21.79				
		25	0	20.72				
			12	20.72				
			25	20.63				
		50	0	20.64				
						26740		

Conducted Power of LTE Band 26

Bandwidth	Modulation	RB size	RB offset	Channel	
				26765	
15MHz	QPSK	1	0	22.61	
			38	22.46	
			74	22.48	
		38	0	21.65	
			18	21.61	
			37	21.64	
		75	0	21.58	
		16QAM	1	0	21.91
				38	21.83
	74			21.82	
	38		0	21.59	
			18	21.62	
			37	21.58	
	75		0	20.68	

LTE Band 41

Conducted Power of LTE Band 41								
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel	
					39675	40620	41565	
5MHz	QPSK	1	0	21.50	20.47	20.63	21.30	
			12	21.50	20.53	20.84	21.23	
			24	21.50	20.49	20.76	21.22	
		12	0	20.50	19.59	19.76	20.32	
			6	20.50	19.68	19.65	20.25	
			13	21.00	19.57	19.68	20.50	
	25	0	20.50	19.58	19.71	20.37		
	16QAM	1	0	21.00	19.93	20.08	20.71	
			12	21.00	19.97	20.20	20.61	
			24	21.00	20.00	20.21	20.65	
		12	0	20.00	18.76	18.80	19.52	
			6	20.00	18.76	18.79	19.61	
			13	19.50	18.74	18.79	19.43	
		25	0	20.00	18.79	18.84	19.63	
		Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel
39700							40620	41540
10MHz	QPSK	1	0	21.50	20.57	20.48	21.25	
			24	21.50	20.39	20.65	21.34	
			49	21.50	20.44	20.66	21.34	
		25	0	20.50	19.49	19.66	20.39	
			12	20.50	19.46	19.69	20.36	
			25	20.50	19.53	19.79	20.46	
	50	0	20.50	19.52	19.71	20.40		
	16QAM	1	0	20.50	20.00	19.93	20.24	
			24	21.00	19.81	20.10	20.58	
			49	20.50	19.84	20.13	20.39	
		25	0	20.00	18.65	18.83	19.53	
			12	20.00	18.65	18.87	19.53	
			25	20.00	18.69	19.03	19.59	
		50	0	20.00	18.59	18.86	19.53	

Conducted Power of LTE Band 41									
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel		
					39725	40620	41515		
15MHz	QPSK	1	0	21.50	20.54	20.55	21.33		
			38	21.50	20.41	20.73	21.33		
			74	21.50	20.50	20.81	21.40		
		36	0	20.50	19.53	19.66	20.39		
			18	20.50	19.45	19.70	20.19		
			37	20.50	19.49	19.70	20.23		
	75	0	20.50	19.49	19.72	20.22			
	16QAM	1	0	20.50	20.01	20.13	20.49		
			38	20.50	19.88	20.20	20.40		
			74	20.50	19.97	20.16	20.49		
		36	0	20.50	19.45	19.72	20.21		
			18	20.50	19.49	19.72	20.19		
			37	20.50	19.44	19.68	20.19		
	75	0	19.50	18.62	18.88	19.48			
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel		
20MHz	QPSK	1	0	21.50	20.64	20.62	21.24		
			49	21.50	20.60	20.71	21.29		
			99	21.50	20.61	20.89	21.40		
		50	0	20.50	19.64	19.70	20.40		
			25	20.50	19.55	19.70	20.22		
			50	20.50	19.59	19.81	20.29		
		100	0	20.50	19.47	19.81	20.45		
		16QAM	1	0	20.00	19.92	19.92	19.91	
				49	20.50	19.85	20.04	19.96	
	99			20.50	19.85	20.12	20.15		
	50		0	20.00	18.72	18.73	19.60		
			25	20.00	18.73	18.76	19.66		
			50	20.00	18.66	19.00	19.67		
	100		0	20.00	18.59	18.85	19.55		
	Bandwidth		Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel
	20MHz		QPSK	1	0	21.50	20.64	20.62	21.24
		49			21.50	20.60	20.71	21.29	
		99			21.50	20.61	20.89	21.40	
50		0		20.50	19.64	19.70	20.40		
		25		20.50	19.55	19.70	20.22		
		50		20.50	19.59	19.81	20.29		
100		0		20.50	19.47	19.81	20.45		
16QAM		1		0	20.00	19.92	19.92	19.91	
				49	20.50	19.85	20.04	19.96	
			99	20.50	19.85	20.12	20.15		
		50	0	20.00	18.72	18.73	19.60		
			25	20.00	18.73	18.76	19.66		
			50	20.00	18.66	19.00	19.67		
		100	0	20.00	18.59	18.85	19.55		

LTE Band 66

Conducted Power of LTE Band 66								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				131979	132322	132665		
1.4MHz	QPSK	1	0	21.84	21.54	21.47		
			2	21.94	21.64	21.54		
			5	21.85	21.60	21.48		
		3	0	21.86	21.61	21.43		
			1	21.86	21.61	21.45		
			3	21.88	21.59	21.42		
		6	0	20.84	20.61	20.50		
			16QAM	1	0	21.05	20.79	20.42
					2	21.17	20.94	20.53
	5	21.06			20.76	20.45		
	3	0		20.92	20.63	20.37		
		1		20.92	20.63	20.40		
		3		20.87	20.60	20.33		
	6	0	19.79	19.69	19.57			
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
					131987	132322	132657	
	3MHz	QPSK	1	0	21.75	21.52	21.40	
				8	21.92	21.67	21.53	
14				21.81	21.57	21.43		
8			0	20.90	20.64	20.52		
			4	20.93	20.66	20.52		
			7	20.88	20.64	20.52		
15			0	20.94	20.66	20.47		
16QAM			1	0	21.07	20.71	20.36	
				8	21.24	20.90	20.53	
		14		21.01	20.72	20.38		
		8	0	20.05	19.69	19.56		
			4	20.05	19.69	19.56		
			7	20.00	19.70	19.56		
		15	0	20.00	19.60	19.45		

Conducted Power of LTE Band 66								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				131997	132322	132647		
5MHz	QPSK	1	0	21.87	21.52	21.43		
			12	22.11	21.81	21.71		
			24	21.81	21.58	21.42		
		12	0	20.93	20.64	20.47		
			6	20.88	20.59	20.47		
			13	20.84	20.60	20.40		
		25	0	20.87	20.63	20.47		
		16QAM	1	0	20.95	20.81	20.54	
				12	21.17	21.12	20.78	
	24			20.93	20.83	20.53		
	12		0	19.95	19.69	19.57		
			6	19.93	19.71	19.53		
			13	19.94	19.69	19.51		
	25		0	19.98	19.62	19.55		
	Bandwidth		Modulation	RB size	RB offset	Channel	Channel	Channel
						132022	132322	132622
	10MHz	QPSK	1	0	21.88	21.60	21.55	
				24	21.90	21.67	21.59	
49				21.84	21.63	21.50		
25			0	20.95	20.59	20.50		
			12	20.90	20.60	20.49		
			25	20.91	20.64	20.48		
50			0	20.92	20.64	20.44		
16QAM			1	0	21.20	20.84	20.54	
				24	21.23	20.92	20.49	
		49		21.08	20.92	20.47		
		25	0	19.93	19.72	19.55		
			12	19.95	19.73	19.58		
			25	19.97	19.77	19.58		
		50	0	19.99	19.69	19.49		

Conducted Power of LTE Band 66						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597
15MHz	QPSK	1	0	21.95	21.58	21.66
			38	21.99	21.79	21.65
			74	21.79	21.84	21.54
		38	0	20.85	20.61	20.55
			18	20.84	20.61	20.57
			37	20.84	20.61	20.57
	75	0	20.84	20.61	20.49	
	16QAM	1	0	21.23	20.93	20.60
			38	21.32	21.14	20.61
			74	21.24	21.06	20.58
		38	0	20.85	20.61	20.57
			18	20.84	20.61	20.57
			37	20.84	20.61	20.57
	75	0	19.92	19.66	19.55	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0	21.98	21.67	21.61
			49	22.01	21.84	21.56
			99	21.76	21.78	21.39
		50	0	20.87	20.56	20.54
			25	20.86	20.56	20.56
			50	20.81	20.65	20.45
	100	0	20.84	20.61	20.53	
	16QAM	1	0	21.09	20.91	20.84
			49	21.14	21.04	20.71
			99	20.90	21.02	20.63
		50	0	19.94	19.68	19.61
			25	19.95	19.68	19.62
			50	19.88	19.76	19.52
	100	0	19.91	19.70	19.59	

LTE Band 71

Conducted Power of LTE Band 71						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133147	133297	133447
5MHz	QPSK	1	0	23.18	22.97	23.02
			12	23.14	23.02	23.11
			24	22.99	22.95	22.94
		12	0	22.18	22.00	21.95
			6	22.18	22.00	21.94
			13	22.03	21.98	21.94
	25	0	22.08	21.99	21.91	
	16QAM	1	0	22.16	22.19	22.02
			12	22.22	22.34	22.18
			24	22.09	22.21	22.00
		12	0	21.21	21.10	21.06
			6	21.23	21.06	21.04
			13	21.11	21.06	21.12
	25	0	21.14	20.98	20.98	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133172	133297	133422
10MHz	QPSK	1	0	23.08	22.92	22.90
			24	22.94	22.92	22.93
			49	22.87	22.92	22.90
		25	0	22.12	22.02	21.93
			12	22.11	22.03	21.95
			25	22.01	21.99	21.94
	50	0	22.07	21.98	21.97	
	16QAM	1	0	22.34	22.18	21.93
			24	22.24	22.17	21.88
			49	22.18	22.18	21.89
		25	0	21.15	21.10	21.05
			12	21.14	21.11	21.05
			25	21.09	21.04	21.00
	50	0	21.09	21.05	21.07	

Conducted Power of LTE Band 71								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel		
				133197	133297	133397		
15MHz	QPSK	1	0	23.09	22.92	23.00		
			38	22.90	22.91	22.97		
			74	22.84	22.90	22.96		
		38	0	22.32	22.28	22.05		
			18	22.19	22.26	22.02		
			37	22.11	22.31	21.88		
			75	22.03	21.97	21.91		
			16QAM	1	0	22.31	22.29	22.02
					38	22.17	22.23	21.98
	74	22.12			22.30	21.90		
	38	0		22.36	22.29	22.03		
		18		22.20	22.25	21.96		
		37		22.11	22.30	21.88		
	75	21.04	21.04	21.02				
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
					133222	133297	133372	
	20MHz	QPSK	1	0	23.17	23.08	22.87	
				49	22.97	22.98	22.81	
99				22.92	23.03	22.83		
50			0	22.09	22.01	21.99		
			25	22.06	22.01	21.99		
			50	22.00	21.91	21.97		
			100	22.01	21.99	21.98		
			16QAM	1	0	22.30	22.33	22.04
					49	22.04	22.19	22.04
99		22.02			22.29	21.99		
50		0		21.11	21.14	21.07		
		25		21.18	21.14	21.07		
		50		21.07	21.04	21.10		
100		21.09	21.08	21.06				