



FCC RF Test Report

APPLICANT : OnePlus Technology (shenzhen) Co., Ltd.
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : ONEPLUS A6003
FCC ID : 2ABZ2-A6003
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M),
27(H), 27(N)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 25, 2018 and completely tested on Mar. 23, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Approved by: Eric Shih / Manager



Sporton International (Shenzhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG812508-01B	Rev. 01	Initial issue of report	Mar. 29, 2018



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17) (Band 71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 71) (Band 25)(Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 71) (Band 25) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38)(Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 71) (Band 25) (Band 26) (Band 66)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 17.78 dB at 10706.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38)(Band 41)	$< 55 + 10\log_{10}(P[\text{Watts}])$		



1 General Description

1.1 Applicant

OnePlus Technology (shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (shenzhen) Co., Ltd.

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	ONEPLUS A6003
FCC ID	2ABZ2-A6003
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0 + EDR / Bluetooth v4.0 LE/ Bluetooth v4.1 LE / Bluetooth v5.0 LE
IMEI Code	Conducted: 868263030005461/868263030006964 for LTE B2/B4 868263030005479 868263030006972 for LTE B5/B12/B17/B25/B26/B38/41/B66/B71 354147042101064/354147043101063 for LTE B7 Radiation: 868263030005222/868263030006725 for LTE B2/B4/B5/B25/B26 Top Antenna 868263030005222/868263030006725 for LTE B41 868263030005024/868263030006527 for LTE B2/B4/B5/B25 /B26 Bottom Antenna 868263030005024/868263030006527 for LTE B7/B12/B17/B38/B66/B71
HW Version	EC101
SW Version	oxygen version 5.1.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	Top Antenna: LTE Band 2 : 22.65 dBm LTE Band 4 : 22.77 dBm LTE Band 5 : 23.00 dBm LTE Band 7 : 22.98 dBm/LTE Band 7_CA : 23.16 dBm LTE Band 12 : 23.01 dBm LTE Band 17 : 22.88 dBm LTE Band 25 : 22.64 dBm LTE Band 26 : 23.33 dBm LTE Band 38 : 23.08 dBm LTE Band 41 : 22.90 dBm/LTE Band 41_CA : 23.48 dBm LTE Band 66 : 22.78 dBm LTE Band 71 : 23.16 dBm Bottom Antenna:

	LTE Band 2 : 23.23 dBm LTE Band 4 : 23.59 dBm LTE Band 5 : 23.45 dBm LTE Band 12 : 23.42 dBm LTE Band 17 : 23.47 dBm LTE Band 25 : 23.36 dBm LTE Band 26 : 23.49 dBm LTE Band 66 : 23.48 dBm LTE Band 71 : 23.34 dBm
Antenna Gain	Top Antenna: LTE Band 2 : -1.00 dBi LTE Band 4 : -1.00 dBi LTE Band 5 : -2.00 dBi LTE Band 7 : -1.00 dBi LTE Band 12 : -2.00 dBi LTE Band 17 : -2.00 dBi LTE Band 25 : -1.00 dBi LTE Band 26 : -2.00 dBi LTE Band 38 : -1.00 dBi LTE Band 41 : -1.00 dBi LTE Band 66 : -1.00 dBi LTE Band 71 : -2.50 dBi Bottom Antenna: LTE Band 2 : -0.50 dBi LTE Band 4 : -0.50 dBi LTE Band 5 : -2.00 dBi LTE Band 12 : -2.00 dBi LTE Band 17 : -2.00 dBi LTE Band 25 : -0.50 dBi LTE Band 26 : -2.00 dBi LTE Band 66 : -0.50 dBi LTE Band 71 : -2.50 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1. This device has two antennas for WWAN, For Top Antenna Port and Bottom Antenna Port, The whole testing of conducted has assessed only Bottom Antenna Port by referring to their maximum conducted power.
2. LTE Band 7/38/41 only for Top Antenna port to test.
3. For Top Antenna and Bottom Antenna can't transmit simultaneously.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 2		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.1365	0.1828	1M09W7D	-	0.1180	0.1629
3	1851.5 ~ 1908.5	2M73G7D	-	0.1374	0.1811	2M73W7D	-	0.1169	0.1618
5	1852.5 ~ 1907.5	4M50G7D	-	0.1390	0.1811	4M51W7D	-	0.1183	0.1671
10	1855.0 ~ 1905.0	9M03G7D	0.0090	0.1419	0.1866	9M07W7D	-	0.1208	0.1660
15	1857.5 ~ 1902.5	13M5G7D	-	0.1442	0.1871	13M4W7D	-	0.1225	0.1714
20	1860.0 ~ 1900.0	18M3G7D	-	0.1462	0.1875	18M5W7D	-	0.1253	0.1710
LTE Band 2		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1850.7 ~ 1909.3	1M09W7D	-	0.0910	0.1119				
3	1851.5 ~ 1908.5	2M73W7D	-	0.0923	0.1132				
5	1852.5 ~ 1907.5	4M50W7D	-	0.1167	0.1159				
10	1855.0 ~ 1905.0	9M03W7D	-	0.1194	0.1099				
15	1857.5 ~ 1902.5	13M5W7D	-	0.1199	0.1178				
20	1860.0 ~ 1900.0	18M4W7D	-	0.1202	0.1159				
LTE Band 25		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.1374	0.1832	1M09W7D	-	0.1172	0.1648
3	1851.5 ~ 1913.5	2M73G7D	-	0.1384	0.1888	2M72W7D	-	0.1186	0.1663
5	1852.5 ~ 1912.5	4M49G7D	-	0.1400	0.1897	4M49W7D	-	0.1205	0.1690
10	1855.0 ~ 1910.0	9M05G7D	0.0107	0.1409	0.1901	9M01W7D	-	0.1211	0.1574
15	1857.5 ~ 1907.5	13M5G7D	-	0.1455	0.1910	13M4W7D	-	0.1259	0.1694
20	1860.0 ~ 1905.0	18M5G7D	-	0.1459	0.1932	18M4W7D	-	0.1253	0.1714



LTE Band 25		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1850.7 ~ 1914.3	1M10W7D	-	0.0918	0.1143				
3	1851.5 ~ 1913.5	2M73W7D	-	0.0933	0.1189				
5	1852.5 ~ 1912.5	4M50W7D	-	0.0946	0.1172				
10	1855.0 ~ 1910.0	9M07W7D	-	0.0938	0.1096				
15	1857.5 ~ 1907.5	13M5W7D	-	0.0975	0.1225				
20	1860.0 ~ 1905.0	18M5W7D	-	0.0959	0.1199				
LTE Band 4		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.1419	0.1914	1M09W7D	-	0.1225	0.1718
3	1711.5 ~ 1753.5	2M73G7D	-	0.1432	0.1905	2M73W7D	-	0.1222	0.1714
5	1712.5 ~ 1752.5	4M51G7D	-	0.1449	0.1963	4M50W7D	-	0.1245	0.1726
10	1715.0 ~ 1750.0	9M07G7D	0.0150	0.1462	0.1928	9M05W7D	-	0.1242	0.1750
15	1717.5 ~ 1747.5	13M4G7D	-	0.1496	0.1995	13M5W7D	-	0.1239	0.1667
20	1720.0 ~ 1745.0	18M4G7D	-	0.1503	0.2037	18M5W7D	-	0.1250	0.1758
LTE Band 4		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1710.7 ~ 1754.3	1M09W7D	-	0.0959	0.1186				
3	1711.5 ~ 1753.5	2M74W7D	-	0.0959	0.1151				
5	1712.5 ~ 1752.5	4M49W7D	-	0.0979	0.1211				
10	1715.0 ~ 1750.0	9M09W7D	-	0.0968	0.1227				
15	1717.5 ~ 1747.5	13M5W7D	-	0.1009	0.1191				
20	1720.0 ~ 1745.0	18M4W7D	-	0.1007	0.1265				
LTE Band 5		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
1.4	824.7 ~ 848.3	1M09G7D	-	0.0752	0.0813	1M10W7D	-	0.0638	0.0726
3	825.5 ~ 847.5	2M72G7D	-	0.0753	0.0832	2M72W7D	-	0.0653	0.0745
5	826.5 ~ 846.5	4M49G7D	-	0.0764	0.0839	4M52W7D	-	0.0659	0.0762
10	829.0 ~ 844.0	9M07G7D	0.0212	0.0767	0.0851	9M03W7D	-	0.0658	0.0703



LTE Band 5		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)			
				Top	Bottom		
1.4	824.7 ~ 848.3	1M09W7D	-	0.0497	0.0521		
3	825.5 ~ 847.5	2M74W7D	-	0.0501	0.0555		
5	826.5 ~ 846.5	4M49W7D	-	0.0511	0.0536		
10	829.0 ~ 844.0	9M01W7D	-	0.0506	0.0521		
LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M51G7D	-	0.1570	4M49W7D	-	0.1346
10	2505.0 ~ 2565.0	9M05G7D	0.0206	0.1574	9M07W7D	-	0.1352
15	2507.5 ~ 2562.5	13M4G7D	-	0.1574	13M5W7D	-	0.1355
20	2510.0 ~ 2560.0	18M6G7D	-	0.1578	18M5W7D	-	0.1361
LTE Band 7		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2502.5 ~ 2567.5	4M50W7D		-		0.1030	
10	2505.0 ~ 2565.0	9M07W7D		-		0.1030	
15	2507.5 ~ 2562.5	13M5W7D		-		0.1033	
20	2510.0 ~ 2560.0	18M6W7D		-		0.1052	
LTE Band 7 CA		QPSK			16QAM		
BW (MHz)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
10MHz+20MHz		28M0G7D	-	0.1644	28M1W7D	-	0.1393
15MHz+15MHz		28M5G7D	-	0.1607	28M6W7D	-	0.1393
15MHz+20MHz		32M7G7D	-	0.1644	32M8W7D	-	0.1396
15MHz+10MHz		23M5G7D	-	0.1614	23M4W7D	-	0.1374
20MHz+10MHz		28M1G7D	-	0.1581	28M0W7D	-	0.1358
20MHz+15MHz		32M8G7D	-	0.1556	32M9W7D	-	0.1282
20MHz+20MHz		37M6G7D	-	0.1560	37M6W7D	-	0.1403



LTE Band 7 CA		64QAM							
BW (MHz)		Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
10MHz+20MHz		28M0W7D		-		0.0869			
15MHz+15MHz		28M5W7D		-		0.0834			
15MHz+20MHz		32M7W7D		-		0.0863			
15MHz+10MHz		23M5W7D		-		0.0791			
20MHz+10MHz		28M0W7D		-		0.0857			
20MHz+15MHz		32M7W7D		-		0.0832			
20MHz+20MHz		37M6W7D		-		0.1076			
LTE Band 12		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
1.4	699.7 ~ 715.3	1M09G7D	-	0.0757	0.0815	1M10W7D	-	0.0644	0.0705
3	700.5 ~ 714.5	2M72G7D	-	0.0757	0.0830	2M73W7D	-	0.0649	0.0731
5	701.5 ~ 713.5	4M51G7D	-	0.0766	0.0839	4M50W7D	-	0.0658	0.0746
10	704.0 ~ 711.0	9M07G7D	0.0155	0.0769	0.0845	9M01W7D	-	0.0671	0.0760
LTE Band 12		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top		Bottom	
1.4	699.7 ~ 715.3	1M09W7D		-		0.0501		0.0533	
3	700.5 ~ 714.5	2M75W7D		-		0.0505		0.0513	
5	701.5 ~ 713.5	4M50W7D		-		0.0511		0.0550	
10	704.0 ~ 711.0	9M05W7D		-		0.0520		0.0557	
LTE Band 17		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
5	706.5 ~ 713.5	4M51G7D	-	0.0745	0.0834	4M49W7D	-	0.0649	0.0748
10	709.0 ~ 711.0	9M05G7D	0.0192	0.0746	0.0855	9M03W7D	-	0.0644	0.0750



LTE Band 17		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top	Bottom		
5	706.5 ~ 713.5	4M49W7D		-		0.0505		0.0551	
10	709.0 ~ 711.0	9M05W7D		-		0.0525		0.0536	
LTE Band 26		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
1.4	824.7 ~ 848.3	1M10G7D	-	0.0718	0.0802	1M09W7D	-	0.0612	0.0676
3	825.5 ~ 847.5	2M72G7D	-	0.0719	0.0796	2M72W7D	-	0.0611	0.0726
5	826.5 ~ 846.5	4M52G7D	-	0.0723	0.0817	4M51W7D	-	0.0619	0.0735
10	829.0 ~ 844.0	9M05G7D	0.0267	0.0729	0.0817	9M03W7D	-	0.0628	0.0728
15	831.5 ~ 841.5	13M5G7D	-	0.0828	0.0859	13M4W7D	-	0.0684	0.0766
CH26765	821.5	13M4G7D	-	0.0815	0.0820	13M4W7D	-	0.0695	0.0726
LTE Band 26		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top	Bottom		
1.4	824.7 ~ 848.3	1M09W7D		-		0.0481		0.0528	
3	825.5 ~ 847.5	2M74W7D		-		0.0484		0.0509	
5	826.5 ~ 846.5	4M50W7D		-		0.0489		0.0499	
10	829.0 ~ 844.0	9M03W7D		-		0.0490		0.0531	
15	831.5 ~ 841.5	13M4W7D		-		0.0548		0.0570	
CH26765	821.5	13M4W7D		-		0.0551		0.0531	
LTE Band 38		QPSK			16QAM				
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		
5	2572.5 ~ 2617.5	4M51G7D	-	0.1592	4M50W7D	-	0.1352		
10	2575.0 ~ 2615.0	9M03G7D	0.0039	0.1596	9M05W7D	-	0.1355		
15	2577.5 ~ 2612.5	13M4G7D	-	0.1611	13M5W7D	-	0.1380		
20	2580.0 ~ 2610.0	18M2G7D	-	0.1614	18M3W7D	-	0.1400		



LTE Band 38		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2572.5 ~ 2617.5	4M50W7D		-		0.1042	
10	2575.0 ~ 2615.0	9M05W7D		-		0.1054	
15	2577.5 ~ 2612.5	13M4W7D		-		0.1074	
20	2580.0 ~ 2610.0	18M3W7D		-		0.1072	
LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M49G7D	-	0.1549	4M50W7D	-	0.1358
10	2501.0 ~ 2685.0	9M03G7D	0.0054	0.1524	9M03W7D	-	0.1384
15	2503.5 ~ 2682.5	13M4G7D	-	0.1524	13M5W7D	-	0.1393
20	2506.0 ~ 2680.0	18M3G7D	-	0.1542	18M4W7D	-	0.1334
LTE Band 41		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2498.5 ~ 2687.5	4M49W7D		-		0.1054	
10	2501.0 ~ 2685.0	9M05W7D		-		0.1076	
15	2503.5 ~ 2682.5	13M4W7D		-		0.1064	
20	2506.0 ~ 2680.0	18M3W7D		-		0.1028	
LTE Band 41 CA		QPSK			16QAM		
BW (MHz)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5MHz+20MHz		23M3G7D	-	0.1702	23M2W7D	-	0.1390
10MHz+20MHz		28M0G7D	-	0.1714	28M0W7D	-	0.1455
10MHz+15MHz		23M4G7D	-	0.1667	23M4W7D	-	0.1393
15MHz+15MHz		28M6G7D	-	0.1770	28M5W7D	-	0.1483
15MHz+20MHz		32M9G7D	-	0.1730	32M9W7D	-	0.1489
15MHz+10MHz		23M5G7D	-	0.1722	23M5W7D	-	0.1462
20MHz+5MHz		23M2G7D	-	0.1710	23M3W7D	-	0.1479
20MHz+10MHz		28M1G7D	-	0.1726	27M9W7D	-	0.1483
20MHz+15MHz		32M9G7D	-	0.1742	32M7W7D	-	0.1469
20MHz+20MHz		37M7G7D	-	0.1698	37M7W7D	-	0.1479



LTE Band 41 CA		64QAM							
BW (MHz)		Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
5MHz+20MHz		23M2W7D		-		0.0871			
10MHz+20MHz		27M9W7D		-		0.0891			
10MHz+15MHz		23M4W7D		-		0.0904			
15MHz+15MHz		28M5W7D		-		0.0895			
15MHz+20MHz		32M9W7D		-		0.0879			
15MHz+10MHz		23M5W7D		-		0.0887			
20MHz+5MHz		23M3W7D		-		0.0895			
20MHz+10MHz		28M0W7D		-		0.0920			
20MHz+15MHz		32M7W7D		-		0.0863			
20MHz+20MHz		37M7W7D		-		0.1114			
LTE Band 66		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
1.4	1710.7 ~ 1779.3	1M10G7D	-	0.1439	0.1954	1M09W7D	-	0.1239	0.1581
3	1711.5 ~ 1778.5	2M74G7D	-	0.1449	0.1879	2M71W7D	-	0.1227	0.1714
5	1712.5 ~ 1777.5	4M50G7D	-	0.1462	0.1888	4M50W7D	-	0.1256	0.1641
10	1715.0 ~ 1775.0	9M05G7D	0.0013	0.1459	0.1914	9M07W7D	-	0.1259	0.1710
15	1717.5 ~ 1772.5	13M5G7D	-	0.1496	0.1923	13M5W7D	-	0.1279	0.1679
20	1720.0 ~ 1770.0	18M4G7D	-	0.1507	0.1986	18M4W7D	-	0.1297	0.1663
LTE Band 66		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
1.4	1710.7 ~ 1779.3	1M10W7D		-		0.1023		0.1178	
3	1711.5 ~ 1778.5	2M73W7D		-		0.1002		0.1236	
5	1712.5 ~ 1777.5	4M50W7D		-		0.0966		0.1191	
10	1715.0 ~ 1775.0	9M09W7D		-		0.0982		0.1227	
15	1717.5 ~ 1772.5	13M5W7D		-		0.0968		0.1242	
20	1720.0 ~ 1770.0	18M4W7D		-		0.0959		0.1117	



LTE Band 71		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
5	665.5 ~ 695.5	4M52G7D	-	0.0690	0.0719	4M50W7D	-	0.0600	0.0617
10	668.0 ~ 693.0	9M03G7D	-	0.0685	0.0721	9M05W7D	-	0.0600	0.0627
15	670.5 ~ 690.5	13M5G7D	-	0.0695	0.0729	13M5W7D	-	0.0598	0.0628
20	673.0 ~ 688.0	18M5G7D	0.0034	0.0710	0.0740	18M4W7D	-	0.0607	0.0652
LTE Band 71		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)				Top	Bottom
5	665.5 ~ 695.5	4M50W7D	-					0.0504	0.0521
10	668.0 ~ 693.0	9M11W7D	-					0.0506	0.0525
15	670.5 ~ 690.5	13M5W7D	-					0.0502	0.0537
20	673.0 ~ 688.0	18M5W7D	-					0.0497	0.0528

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	TH01-SZ	251365

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	03CH01-SZ 03CH04-SZ	577730

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(N)
- ♦ ANSI / TIA-603-E
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	V	V	V
	7	-	-	V	V	V	V	V	V	V	V	V	V	V	V	V
	38	-	-	V	V	V	V	V	V	V	V	V	V	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V	V
	17	-	-	V	V	-	-	V	V	V	V	V	V	V	V	V
	25	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	26	V	V	V	V	V	-	V	V	V	V	V	V	V	V	V
	41	-	-	V	V	V	V	V	V	V	V	V	V	V	V	V
	71	-	-	V	V	V	V	V	V	V	V	V	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Peak-to-Average Ratio	2						V	V	V	V	V		V	V	V	V
	4						V	V	V	V	V		V	V	V	V
	5				V	-	-	V	V	V	V		V	V	V	V
	7	-	-				V	V	V	V	V		V	V	V	V
	38	-	-				V	V	V	V	V		V	V	V	V
	12				V	-	-	V	V	V	V		V	V	V	V
	17	-	-		V	-	-	V	V	V	V		V	V	V	V
	25						V	V	V	V	V		V	V	V	V
	26					V	-	V	V	V	V		V	V	V	V
	41	-	-				V	V	V	V	V		V	V	V	V
	71	-	-				V	V	V	V	V		V	V	V	V
	66						V	V	V	V	V		V	V	V	V



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓			✓	✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓			✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓			✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓			✓	✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	71	-	-	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓		✓	✓		✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓	✓		✓	✓		✓
	17	-	-	✓	✓	-	-	✓	✓	✓	✓		✓	✓		✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓		✓	✓		✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	71	-	-	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Fu II	L	M	H
Conducted Spurious Emission	2	V	V	V	V	V	V	V	V	V	V			V	V	V
	4	V	V	V	V	V	V	V	V	V	V			V	V	V
	5	V	V	V	V	-	-	V	V	V	V			V	V	V
	7	-	-	V	V	V	V	V	V	V	V			V	V	V
	38	-	-	V	V	V	V	V	V	V	V			V	V	V
	12	V	V	V	V	-	-	V	V	V	V			V	V	V
	17	-	-	V	V	-	-	V	V	V	V			V	V	V
	25	V	V	V	V	V	V	V	V	V	V			V	V	V
	26	V	V	V	V	V	-	V	V	V	V			V	V	V
	41	-	-	V	V	V	V	V	V	V	V			V	V	V
	71	-	-	V	V	V	V	V	V	V	V			V	V	V
	66	V	V	V	V	V	V	V	V	V	V			V	V	V
Frequency Stability	2				V			V					V		V	
	4				V			V					V		V	
	5				V	-	-	V					V		V	
	7	-	-		V			V					V		V	
	38	-	-		V			V					V		V	
	12				V	-	-	V					V		V	
	17	-	-		V	-	-	V					V		V	
	25				V			V					V		V	
	26				V		-	V					V		V	
	41	-	-		V			V					V		V	
	71	-	-		V			V					V		V	
	66				V			V					V		V	

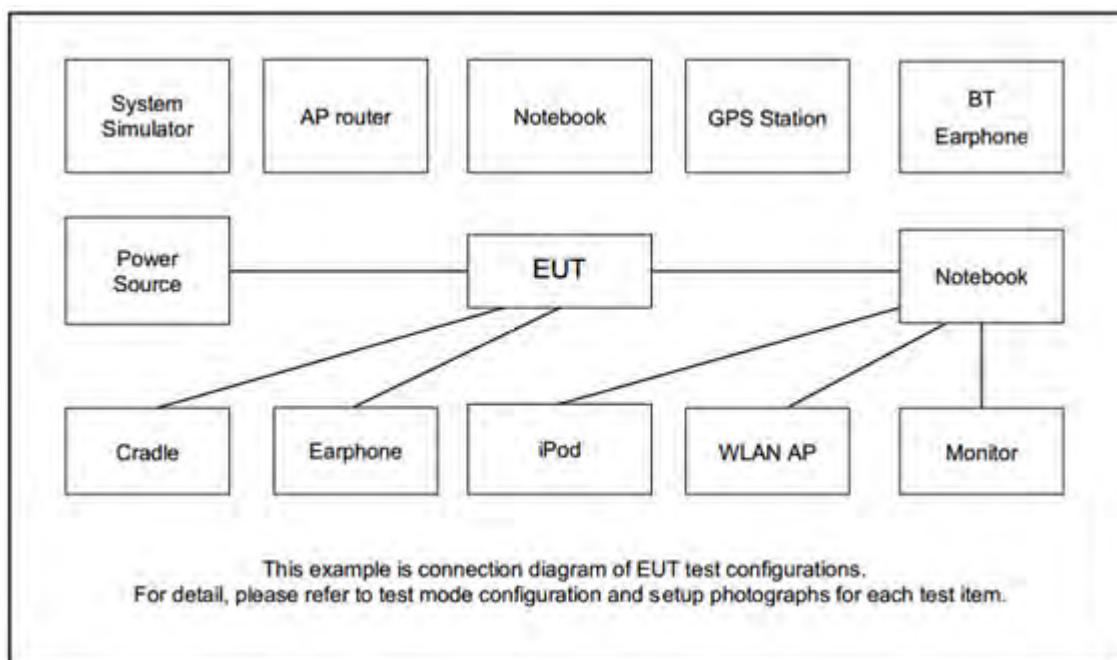


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P./ E.I.R.P.	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓			✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓	✓			✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓			✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	71	-	-	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓			✓			✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓			✓			✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓			✓			✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓			✓			✓	✓	✓
	17	-	-	✓	✓	-	-	✓			✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓			✓			✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓			✓			✓	✓	✓
	71	-	-	✓	✓	✓	✓	✓			✓			✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓
Note	1. The mark “✓” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7_CA	v	v	v	v	v			v	v		v			v			v	v	v
	41_CA	v	v	v	v	v	v	v	v	v	v	v			v			v	v	v
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.0 + 10 = 14.0 \text{ (dB)}
 \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5



LTE Band 7 Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 41 Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41 Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

3 Conducted Test Items

3.1 Measuring Instruments

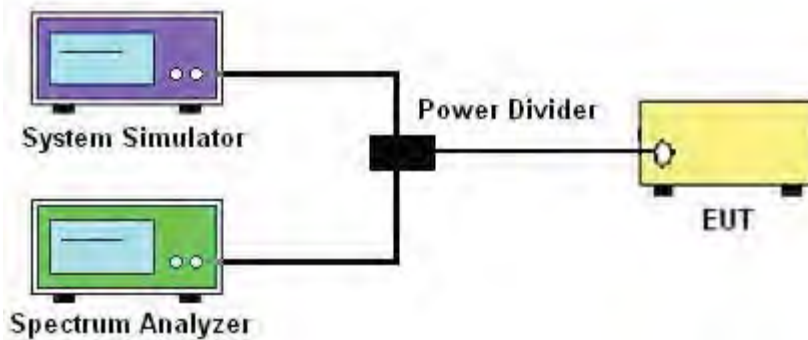
See list of measuring instruments of this test report.

3.2 Test Setup

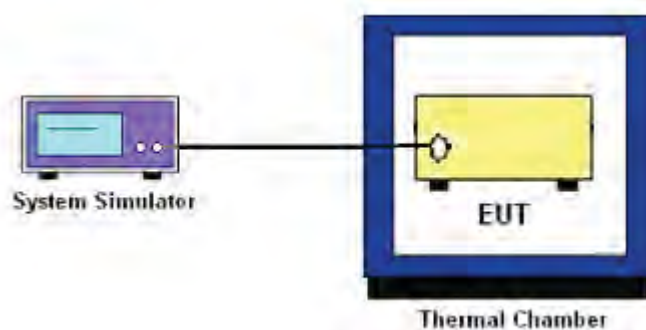
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 17 and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 v03 Section 5.7.1

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 v03 Section 4.2

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 v03 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor $= 10 \log (1/x)$, where x is the measured duty cycle
8. Checked that all the results comply with the emission limit line.

The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7,38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

The testing follows FCC KDB 971168 v03 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
11. For Band 7, 38, 41

The limit line is derived from $55 + 10 \log (P)$ dB below the transmitter power P(Watts)

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 v03 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 v03 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

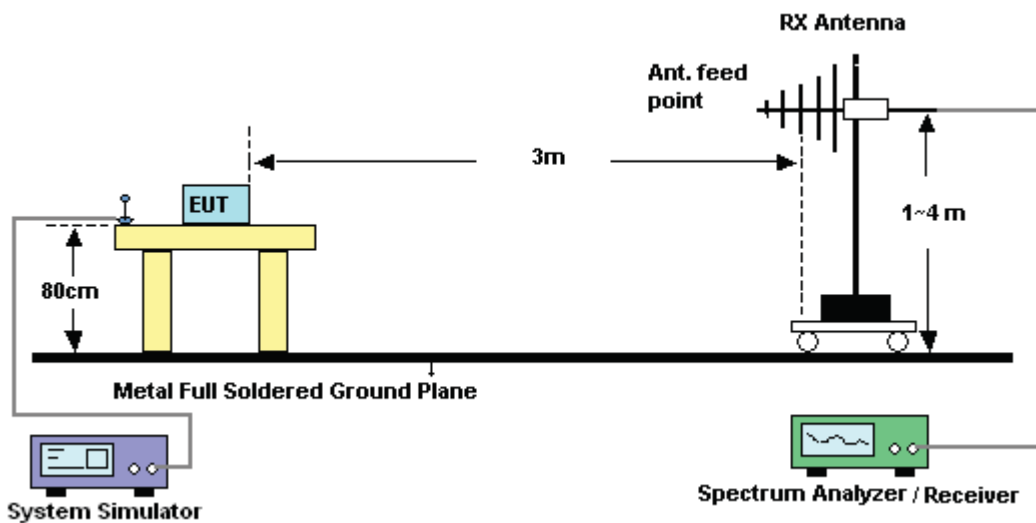
4 Radiated Test Items

4.1 Measuring Instruments

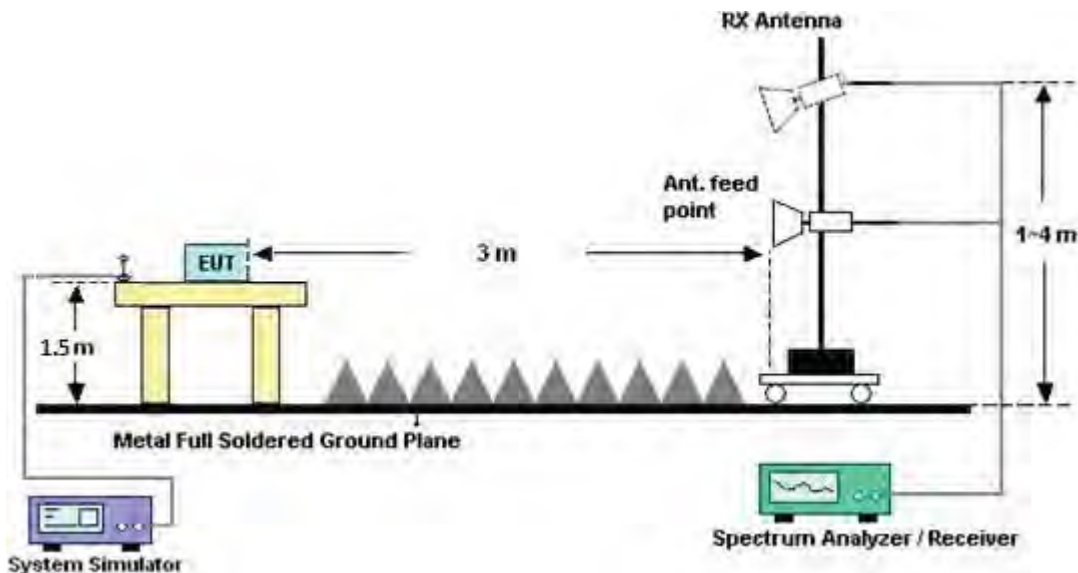
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 v03 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

11. For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	Jan. 30, 2018~ Mar. 20, 2018	Apr. 19, 2018	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2018	Jan. 30, 2018~ Mar. 20, 2018	Jan. 02, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhonggroup	LP-150U	H2014081803	-40~+150°C	Jul. 20, 2017	Jan. 30, 2018~ Mar. 20, 2018	Jul. 19, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 20, 2017	Feb. 18, 2018~ Mar. 23, 2018	Apr. 19, 2018	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5GHz	Oct. 19, 2017	Feb. 18, 2018~ Mar. 23, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	May 10, 2017	Feb. 18, 2018~ Mar. 23, 2018	May 09, 2018	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jul. 28, 2017	Feb. 18, 2018~ Mar. 23, 2018	Jul. 27, 2018	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Jun. 16, 2017	Feb. 18, 2018~ Mar. 23, 2018	Jun. 15, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Feb. 18, 2018~ Mar. 23, 2018	Apr. 19, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1707137	1GHz~18GHz	Oct. 19, 2017	Feb. 18, 2018~ Mar. 23, 2018	Oct. 18, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2017	Feb. 18, 2018~ Mar. 23, 2018	Jul. 17, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 20, 2017	Feb. 18, 2018~ Mar. 23, 2018	Apr. 19, 2018	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 16, 2017	Feb. 18, 2018~ Mar. 23, 2018	May 15, 2018	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1285	1GHz~18GHz	Dec. 13, 2017	Feb. 18, 2018~ Mar. 23, 2018	Dec. 12, 2018	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	May 17, 2017	Feb. 18, 2018~ Mar. 23, 2018	May 16, 2018	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2017	Feb. 18, 2018~ Mar. 23, 2018	Oct. 18, 2018	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1989346	1GHz~18GHz	Jul. 27, 2017	Feb. 18, 2018~ Mar. 23, 2018	Jul. 26, 2018	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1988315	18GHz~40GHz	Jul. 27, 2017	Feb. 18, 2018~ Mar. 23, 2018	Jul. 26, 2018	Radiation (03CH04-SZ)



Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Apr. 20, 2017	Feb. 18, 2018~ Mar. 23, 2018	Apr. 19, 2018	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 18, 2018~ Mar. 23, 2018	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) for 03CH01-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz) for 03CH01-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz) for 03CH01-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.0dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) for 03CH04-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz) for 03CH04-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz) for 03CH04-SZ

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.9dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Top Antenna:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.49	22.43	22.65
20	1	49		22.22	22.25	22.42
20	1	99		22.12	22.17	22.32
20	50	0		21.38	21.42	21.55
20	50	24		21.35	21.34	21.42
20	50	50		21.29	21.23	21.45
20	100	0		21.38	21.31	21.45
20	1	0	16-QAM	21.81	21.72	21.98
20	1	49		21.56	21.58	21.77
20	1	99		21.42	21.52	21.66
20	50	0		20.49	20.51	20.62
20	50	24		20.48	20.38	20.49
20	50	50		20.37	20.31	20.53
20	100	0		20.48	20.37	20.52
20	1	0	64QAM	21.76	21.66	21.80
20	1	49		21.50	21.51	21.70
20	1	99		21.42	21.45	21.60
20	50	0		20.54	20.55	20.64
20	50	24		20.51	20.44	20.53
20	50	50		20.41	20.37	20.52
20	100	0		20.51	20.44	20.56
15	1	0	QPSK	22.51	22.41	22.59
15	1	37		22.27	22.26	22.39
15	1	74		22.24	22.28	22.35
15	36	0		21.40	21.39	21.47
15	36	20		21.34	21.34	21.49
15	36	39		21.33	21.22	21.41
15	75	0		21.41	21.32	21.40



15	1	0	16-QAM	21.83	21.75	21.88
15	1	37		21.62	21.59	21.73
15	1	74		21.62	21.65	21.69
15	36	0		20.47	20.48	20.53
15	36	20		20.42	20.39	20.53
15	36	39		20.38	20.32	20.48
15	75	0		20.47	20.41	20.46
15	1	0	64QAM	21.79	21.69	21.70
15	1	37		21.53	21.56	21.71
15	1	74		21.53	21.57	21.63
15	36	0		20.48	20.48	20.55
15	36	20		20.44	20.41	20.60
15	36	39		20.44	20.34	20.48
15	75	0		20.53	20.41	20.48



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.43	22.37	22.52
10	1	25		22.29	22.26	22.38
10	1	49		22.16	22.16	22.30
10	25	0		21.37	21.34	21.47
10	25	12		21.33	21.31	21.43
10	25	25		21.26	21.25	21.32
10	50	0		21.32	21.28	21.42
10	1	0	16-QAM	21.76	21.69	21.82
10	1	25		21.61	21.59	21.72
10	1	49		21.50	21.50	21.67
10	25	0		20.45	20.42	20.53
10	25	12		20.44	20.36	20.51
10	25	25		20.35	20.33	20.44
10	50	0		20.41	20.36	20.51
10	1	0	64QAM	21.69	21.63	21.77
10	1	25		21.56	21.51	21.66
10	1	49		21.45	21.42	21.55
10	25	0		20.50	20.46	20.56
10	25	12		20.44	20.41	20.54
10	25	25		20.39	20.34	20.46
10	50	0		20.42	20.40	20.51
5	1	0	QPSK	22.39	22.32	22.43
5	1	12		22.34	22.26	22.32
5	1	24		22.28	22.21	22.32
5	12	0		21.39	21.28	21.36
5	12	7		21.33	21.28	21.34
5	12	13		21.33	21.26	21.33
5	25	0		21.35	21.25	21.35
5	1	0	16-QAM	21.72	21.62	21.73
5	1	12		21.66	21.55	21.68
5	1	24		21.58	21.54	21.61
5	12	0		20.48	20.37	20.44
5	12	7		20.44	20.35	20.44



5	12	13		20.40	20.32	20.42
5	25	0		20.46	20.37	20.43
5	1	0	64QAM	21.64	21.58	21.67
5	1	12		21.60	21.50	21.63
5	1	24		21.54	21.45	21.57
5	12	0		20.48	20.37	20.45
5	12	7		20.42	20.39	20.45
5	12	13		20.41	20.33	20.38
5	25	0		20.43	20.36	20.45



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.38	22.25	22.33
3	1	8		22.30	22.21	22.30
3	1	14		22.28	22.22	22.28
3	8	0		21.38	21.29	21.31
3	8	4		21.37	21.27	21.37
3	8	7		21.36	21.26	21.31
3	15	0		21.35	21.23	21.30
3	1	0	16-QAM	21.68	21.60	21.65
3	1	8		21.68	21.57	21.65
3	1	14		21.60	21.51	21.61
3	8	0		20.48	20.37	20.46
3	8	4		20.48	20.43	20.47
3	8	7		20.47	20.36	20.42
3	15	0		20.44	20.35	20.41
3	1	0	64QAM	20.65	20.52	20.64
3	1	8		20.61	20.51	20.58
3	1	14		20.58	20.50	20.56
3	8	0		19.53	19.45	19.49
3	8	4		19.54	19.43	19.50
3	8	7		19.49	19.43	19.44
3	15	0		19.43	19.36	19.44
1.4	1	0	QPSK	22.34	22.20	22.24
1.4	1	3		22.32	22.23	22.28
1.4	1	5		22.30	22.17	22.19
1.4	3	0		22.33	22.18	22.25
1.4	3	1		22.35	22.22	22.29
1.4	3	3		22.30	22.18	22.24
1.4	6	0		21.31	21.18	21.24
1.4	1	0	16-QAM	21.65	21.49	21.50
1.4	1	3		21.72	21.59	21.68
1.4	1	5		21.61	21.49	21.51
1.4	3	0		21.44	21.30	21.34
1.4	3	1		21.45	21.31	21.38



1.4	3	3		21.40	21.30	21.33
1.4	6	0		20.47	20.30	20.39
1.4	1	0	64QAM	20.57	20.45	20.47
1.4	1	3		20.59	20.46	20.56
1.4	1	5		20.51	20.40	20.46
1.4	3	0		20.56	20.44	20.49
1.4	3	1		20.59	20.46	20.50
1.4	3	3		20.53	20.41	20.46
1.4	6	0		19.42	19.30	19.33



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.57	22.63	22.77
20	1	49		22.35	22.51	22.55
20	1	99		22.34	22.48	22.52
20	50	0		21.60	21.78	21.68
20	50	24		21.45	21.63	21.67
20	50	50		21.49	21.57	21.56
20	100	0		21.48	21.65	21.67
20	1	0	16-QAM	21.87	21.95	21.97
20	1	49		21.70	21.85	21.87
20	1	99		21.69	21.85	21.85
20	50	0		20.68	20.80	20.76
20	50	24		20.55	20.72	20.76
20	50	50		20.58	20.64	20.62
20	100	0		20.58	20.71	20.71
20	1	0	64QAM	20.83	20.91	21.03
20	1	49		20.67	20.80	20.78
20	1	99		20.64	20.79	20.80
20	50	0		19.74	19.89	19.79
20	50	24		19.65	19.76	19.80
20	50	50		19.65	19.66	19.66
20	100	0		19.63	19.78	19.78
15	1	0	QPSK	22.52	22.69	22.75
15	1	37		22.26	22.51	22.61
15	1	74		22.40	22.54	22.57
15	36	0		21.45	21.68	21.66
15	36	20		21.49	21.61	21.61
15	36	39		21.51	21.55	21.61
15	75	0		21.48	21.61	21.60
15	1	0	16-QAM	21.87	21.91	21.93
15	1	37		21.60	21.83	21.93
15	1	74		21.76	21.92	21.87
15	36	0		20.53	20.80	20.74



15	36	20		20.54	20.69	20.69
15	36	39		20.56	20.59	20.75
15	75	0		20.55	20.69	20.69
15	1	0	64QAM	20.85	20.97	21.04
15	1	37		20.59	20.81	20.90
15	1	74		20.73	20.86	20.79
15	36	0		19.60	19.88	19.81
15	36	20		19.65	19.79	19.75
15	36	39		19.66	19.68	19.78
15	75	0		19.61	19.75	19.71



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.46	22.58	22.65
10	1	25		22.31	22.52	22.60
10	1	49		22.32	22.53	22.50
10	25	0		21.41	21.64	21.63
10	25	12		21.37	21.62	21.67
10	25	25		21.47	21.53	21.60
10	50	0		21.51	21.63	21.57
10	1	0	16-QAM	21.75	21.90	21.94
10	1	25		21.63	21.87	21.89
10	1	49		21.65	21.91	21.83
10	25	0		20.51	20.75	20.68
10	25	12		20.47	20.65	20.71
10	25	25		20.51	20.63	20.68
10	50	0		20.57	20.68	20.64
10	1	0	64QAM	20.76	20.82	20.86
10	1	25		20.62	20.81	20.84
10	1	49		20.68	20.82	20.77
10	25	0		19.56	19.80	19.75
10	25	12		19.52	19.76	19.79
10	25	25		19.57	19.66	19.76
10	50	0		19.65	19.72	19.68
5	1	0	QPSK	22.41	22.58	22.61
5	1	12		22.33	22.53	22.51
5	1	24		22.32	22.51	22.50
5	12	0		21.41	21.59	21.64
5	12	7		21.38	21.60	21.59
5	12	13		21.33	21.57	21.59
5	25	0		21.38	21.58	21.59
5	1	0	16-QAM	21.73	21.90	21.95
5	1	12		21.69	21.86	21.89
5	1	24		21.64	21.85	21.89
5	12	0		20.50	20.66	20.69
5	12	7		20.44	20.64	20.69



5	12	13		20.40	20.61	20.62
5	25	0		20.45	20.67	20.68
5	1	0	64QAM	20.73	20.91	20.90
5	1	12		20.59	20.82	20.83
5	1	24		20.61	20.80	20.78
5	12	0		19.57	19.81	19.76
5	12	7		19.54	19.74	19.78
5	12	13		19.51	19.69	19.72
5	25	0		19.52	19.69	19.72



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.38	22.53	22.56
3	1	8		22.33	22.51	22.49
3	1	14		22.28	22.50	22.47
3	8	0		21.37	21.59	21.56
3	8	4		21.44	21.59	21.60
3	8	7		21.37	21.53	21.57
3	15	0		21.36	21.56	21.56
3	1	0	16-QAM	21.66	21.87	21.86
3	1	8		21.69	21.83	21.85
3	1	14		21.61	21.75	21.82
3	8	0		20.52	20.71	20.69
3	8	4		20.53	20.69	20.72
3	8	7		20.49	20.66	20.68
3	15	0		20.49	20.67	20.66
3	1	0	64QAM	20.66	20.82	20.82
3	1	8		20.61	20.80	20.77
3	1	14		20.59	20.77	20.76
3	8	0		19.57	19.74	19.71
3	8	4		19.56	19.74	19.72
3	8	7		19.54	19.70	19.68
3	15	0		19.49	19.69	19.68
1.4	1	0	QPSK	22.29	22.46	22.42
1.4	1	3		22.34	22.52	22.49
1.4	1	5		22.27	22.44	22.42
1.4	3	0		22.29	22.49	22.49
1.4	3	1		22.34	22.51	22.49
1.4	3	3		22.30	22.47	22.48
1.4	6	0		21.30	21.51	21.47
1.4	1	0	16-QAM	21.61	21.78	21.76
1.4	1	3		21.68	21.88	21.81
1.4	1	5		21.61	21.78	21.72
1.4	3	0		21.38	21.58	21.55
1.4	3	1		21.41	21.62	21.58



1.4	3	3		21.39	21.57	21.54
1.4	6	0		20.46	20.63	20.64
1.4	1	0	64QAM	20.58	20.78	20.72
1.4	1	3		20.65	20.82	20.78
1.4	1	5		20.56	20.73	20.69
1.4	3	0		20.56	20.75	20.72
1.4	3	1		20.60	20.78	20.76
1.4	3	3		20.54	20.72	20.70
1.4	6	0		19.43	19.61	19.61



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.84	22.89	23.00
10	1	25		22.71	22.85	22.98
10	1	49		22.79	22.88	22.93
10	25	0		21.76	21.82	21.97
10	25	12		21.72	21.79	21.91
10	25	25		21.79	21.83	21.99
10	50	0		21.87	21.83	21.89
10	1	0	16-QAM	22.14	22.18	22.33
10	1	25		22.01	22.15	22.29
10	1	49		22.06	22.23	22.20
10	25	0		20.82	20.97	21.01
10	25	12		20.79	20.94	21.01
10	25	25		20.87	20.93	21.07
10	50	0		20.94	20.94	20.97
10	1	0	64QAM	21.05	21.07	21.19
10	1	25		20.91	21.06	21.17
10	1	49		21.01	21.12	21.12
10	25	0		19.86	19.97	20.05
10	25	12		19.83	19.97	20.00
10	25	25		19.88	19.89	20.07
10	50	0		19.95	19.93	20.01
5	1	0	QPSK	22.75	22.87	22.98
5	1	12		22.72	22.81	22.92
5	1	24		22.72	22.88	22.90
5	12	0		21.74	21.84	21.99
5	12	7		21.73	21.83	21.99
5	12	13		21.72	21.84	21.95
5	25	0		21.72	21.83	21.99
5	1	0	16-QAM	22.08	22.20	22.34
5	1	12		22.00	22.11	22.22
5	1	24		21.94	22.26	22.21
5	12	0		20.81	20.96	21.12
5	12	7		20.84	20.95	21.07



5	12	13		20.76	20.90	21.03
5	25	0		20.79	20.92	21.08
5	1	0	64QAM	21.01	21.11	21.23
5	1	12		20.95	21.05	21.14
5	1	24		20.91	21.11	21.06
5	12	0		19.87	19.96	20.14
5	12	7		19.86	19.96	20.13
5	12	13		19.82	19.96	20.04
5	25	0		19.78	19.93	20.04



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.71	22.81	22.92
3	1	8		22.69	22.81	22.91
3	1	14		22.69	22.87	22.89
3	8	0		21.72	21.84	21.95
3	8	4		21.71	21.85	21.98
3	8	7		21.73	21.80	21.95
3	15	0		21.70	21.80	21.96
3	1	0	16-QAM	22.05	22.15	22.30
3	1	8		21.99	22.16	22.23
3	1	14		21.92	22.20	22.15
3	8	0		20.82	20.93	21.10
3	8	4		20.85	20.99	21.11
3	8	7		20.81	20.94	21.04
3	15	0		20.81	20.89	21.06
3	1	0	64QAM	20.94	21.05	21.15
3	1	8		20.92	21.04	21.07
3	1	14		20.91	21.11	21.08
3	8	0		19.82	19.93	20.07
3	8	4		19.84	19.95	20.08
3	8	7		19.85	19.91	20.06
3	15	0		19.81	19.91	20.03
1.4	1	0	QPSK	22.65	22.74	22.82
1.4	1	3		22.75	22.80	22.91
1.4	1	5		22.63	22.72	22.80
1.4	3	0		22.70	22.79	22.87
1.4	3	1		22.73	22.82	22.90
1.4	3	3		22.70	22.79	22.88
1.4	6	0		21.65	21.75	21.91
1.4	1	0	16-QAM	21.98	22.09	22.11
1.4	1	3		22.06	22.14	22.20
1.4	1	5		21.96	22.00	22.15
1.4	3	0		21.77	21.87	21.96
1.4	3	1		21.82	21.87	21.96



1.4	3	3		21.75	21.87	21.91
1.4	6	0		20.83	20.90	21.01
1.4	1	0	64QAM	20.91	20.97	21.09
1.4	1	3		21.01	21.02	21.11
1.4	1	5		20.89	20.94	21.06
1.4	3	0		20.92	20.97	21.05
1.4	3	1		20.96	21.00	21.10
1.4	3	3		20.87	20.95	21.04
1.4	6	0		19.76	19.83	19.95



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.78	22.95	22.98
20	1	49		22.73	22.84	22.91
20	1	99		22.65	22.87	22.97
20	50	0		21.58	21.89	22.02
20	50	24		21.55	21.93	22.00
20	50	50		21.59	21.96	22.04
20	100	0		21.55	21.93	21.98
20	1	0	16-QAM	21.95	22.34	22.33
20	1	49		21.97	22.08	22.19
20	1	99		21.97	22.21	22.29
20	50	0		20.75	20.97	21.14
20	50	24		20.68	21.01	21.08
20	50	50		20.68	21.05	21.12
20	100	0		20.64	21.00	21.07
20	1	0	64QAM	20.90	21.09	21.22
20	1	49		20.87	21.01	21.07
20	1	99		20.86	20.94	21.18
20	50	0		19.81	19.94	20.04
20	50	24		19.76	19.94	20.01
20	50	50		19.77	19.96	20.04
20	100	0		19.71	19.94	19.99
15	1	0	QPSK	22.56	22.93	22.91
15	1	37		22.56	22.85	22.86
15	1	74		22.54	22.85	22.97
15	36	0		21.60	21.86	21.97
15	36	20		21.54	21.89	22.05
15	36	39		21.52	21.92	21.97
15	75	0		21.52	21.92	22.01
15	1	0	16-QAM	21.94	22.23	22.27
15	1	37		21.89	22.10	22.09
15	1	74		21.90	22.19	22.32
15	36	0		20.69	20.99	21.03



15	36	20		20.59	20.98	21.10
15	36	39		20.60	20.99	21.03
15	75	0		20.56	20.98	21.08
15	1	0	64QAM	20.86	21.12	21.13
15	1	37		20.87	21.01	21.00
15	1	74		20.85	20.98	21.14
15	36	0		19.79	19.92	20.02
15	36	20		19.67	19.95	20.07
15	36	39		19.68	19.96	19.97
15	75	0		19.66	19.93	20.04



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.48	22.85	22.96
10	1	25		22.49	22.89	22.93
10	1	49		22.54	22.79	22.97
10	25	0		21.53	21.85	22.02
10	25	12		21.56	21.89	21.98
10	25	25		21.56	21.92	21.99
10	50	0		21.57	21.90	22.03
10	1	0	16-QAM	21.81	22.08	22.31
10	1	25		21.85	22.13	22.23
10	1	49		21.89	22.05	22.28
10	25	0		20.66	20.92	21.11
10	25	12		20.64	20.98	21.02
10	25	25		20.62	20.95	21.03
10	50	0		20.67	20.99	21.13
10	1	0	64QAM	20.79	20.99	21.13
10	1	25		20.81	20.99	21.08
10	1	49		20.82	20.92	21.12
10	25	0		19.70	19.88	20.05
10	25	12		19.73	19.97	19.95
10	25	25		19.71	19.96	19.97
10	50	0		19.67	19.93	20.06
5	1	0	QPSK	22.41	22.84	22.93
5	1	12		22.42	22.86	22.95
5	1	24		22.43	22.85	22.96
5	12	0		21.47	21.85	21.98
5	12	7		21.51	21.94	22.02
5	12	13		21.45	21.88	22.00
5	25	0		21.46	21.87	22.00
5	1	0	16-QAM	21.73	22.06	22.23
5	1	12		21.78	22.15	22.27
5	1	24		21.78	22.10	22.29
5	12	0		20.55	20.97	21.03
5	12	7		20.62	20.97	21.11



5	12	13		20.58	20.97	21.07
5	25	0		20.54	20.93	21.04
5	1	0	64QAM	20.79	20.99	21.08
5	1	12		20.75	21.00	21.12
5	1	24		20.75	20.98	21.13
5	12	0		19.64	19.92	20.01
5	12	7		19.68	19.98	20.06
5	12	13		19.68	19.94	20.03
5	25	0		19.62	19.90	20.00



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.93	22.91	22.98
10	1	25		22.99	22.95	22.94
10	1	49		23.01	22.98	22.99
10	25	0		22.01	22.03	21.99
10	25	12		22.05	22.04	22.00
10	25	25		22.00	21.99	21.99
10	50	0		22.03	22.01	22.01
10	1	0	16-QAM	22.29	22.27	22.30
10	1	25		22.34	22.29	22.27
10	1	49		22.42	22.34	22.30
10	25	0		21.12	21.10	21.08
10	25	12		21.17	21.12	21.10
10	25	25		21.09	21.06	21.09
10	50	0		21.13	21.10	21.09
10	1	0	64QAM	21.22	21.15	21.25
10	1	25		21.25	21.20	21.20
10	1	49		21.31	21.23	21.21
10	25	0		20.11	20.11	20.06
10	25	12		20.14	20.09	20.07
10	25	25		20.10	20.12	20.07
10	50	0		20.11	20.07	20.07
5	1	0	QPSK	22.92	22.97	22.91
5	1	12		22.88	22.95	22.88
5	1	24		22.99	22.94	22.92
5	12	0		21.93	21.99	21.92
5	12	7		21.93	21.98	21.98
5	12	13		22.00	21.98	21.93
5	25	0		22.02	21.98	21.94
5	1	0	16-QAM	22.27	22.30	22.29
5	1	12		22.20	22.30	22.23
5	1	24		22.33	22.29	22.26
5	12	0		20.99	21.07	21.06



5	12	7		21.03	21.08	21.06
5	12	13		21.12	21.06	21.04
5	25	0		21.09	21.04	21.01
5	1	0	64QAM	21.19	21.23	21.18
5	1	12		21.16	21.19	21.16
5	1	24		21.22	21.19	21.18
5	12	0		20.04	20.15	20.07
5	12	7		20.09	20.12	20.08
5	12	13		20.17	20.14	20.08
5	25	0		20.09	20.09	20.05



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.90	22.94	22.88
3	1	8		22.86	22.93	22.88
3	1	14		22.88	22.92	22.88
3	8	0		21.92	21.94	21.89
3	8	4		21.95	21.99	21.95
3	8	7		21.91	21.97	21.91
3	15	0	16-QAM	21.88	21.94	21.92
3	1	0		22.19	22.27	22.17
3	1	8		22.22	22.27	22.21
3	1	14		22.19	22.23	22.17
3	8	0		21.04	21.07	21.03
3	8	4		21.06	21.13	21.08
3	8	7	64QAM	21.03	21.11	21.05
3	15	0		21.02	21.09	21.03
3	1	0		21.15	21.18	21.14
3	1	8		21.12	21.15	21.14
3	1	14		21.13	21.16	21.14
3	8	0		20.03	20.10	20.02
3	8	4	QPSK	20.06	20.12	20.05
3	8	7		20.04	20.12	20.02
3	15	0		20.02	20.05	20.02
1.4	1	0		22.83	22.82	22.82
1.4	1	3		22.88	22.92	22.87
1.4	1	5		22.79	22.85	22.80
1.4	3	0	16-QAM	22.82	22.85	22.86
1.4	3	1		22.87	22.94	22.86
1.4	3	3		22.86	22.89	22.86
1.4	6	0		21.84	21.87	21.83
1.4	1	0		22.12	22.19	22.14
1.4	1	3		22.24	22.24	22.20
1.4	1	5	16-QAM	22.11	22.20	22.16
1.4	3	0		21.95	21.96	21.92
1.4	3	1		22.00	22.00	21.96



1.4	3	3		21.92	21.96	21.94
1.4	6	0		21.00	21.04	21.02
1.4	1	0	64QAM	21.06	21.08	21.03
1.4	1	3		21.13	21.15	21.11
1.4	1	5		21.06	21.06	21.03
1.4	3	0		21.06	21.12	21.05
1.4	3	1		21.08	21.14	21.09
1.4	3	3		21.06	21.13	21.05
1.4	6	0		19.91	19.97	19.91



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.85	22.86	22.87
10	1	25		22.84	22.83	22.83
10	1	49		22.81	22.85	22.88
10	25	0		21.89	21.88	21.87
10	25	12		21.91	21.89	21.90
10	25	25		21.90	21.86	21.88
10	50	0		21.91	21.89	21.88
10	1	0	16-QAM	22.24	22.24	22.24
10	1	25		22.19	22.18	22.17
10	1	49		22.21	22.19	22.19
10	25	0		20.99	21.00	20.97
10	25	12		21.00	21.00	21.00
10	25	25		20.96	20.97	20.95
10	50	0		20.99	20.99	20.98
10	1	0	64QAM	21.14	21.16	21.14
10	1	25		21.11	21.10	21.07
10	1	49		21.35	21.14	21.12
10	25	0		19.96	19.99	19.97
10	25	12		19.98	19.98	19.98
10	25	25		19.96	19.95	19.95
10	50	0		20.00	19.97	19.99
5	1	0	QPSK	22.85	22.85	22.81
5	1	12		22.84	22.81	22.82
5	1	24		22.87	22.83	22.86
5	12	0		21.90	21.86	21.94
5	12	7		21.89	21.89	21.95
5	12	13		21.89	21.86	21.94
5	25	0		21.89	21.86	21.93
5	1	0	16-QAM	22.15	22.21	22.27
5	1	12		22.19	22.14	22.22
5	1	24		22.18	22.19	22.25
5	12	0		20.97	20.99	20.94
5	12	7		20.99	20.99	20.98



5	12	13		20.99	20.97	20.93
5	25	0		21.00	20.97	20.95
5	1	0	64QAM	21.08	21.09	21.18
5	1	12		21.07	21.05	21.16
5	1	24		21.10	21.06	21.18
5	12	0		20.03	20.01	20.08
5	12	7		20.05	20.01	20.12
5	12	13		20.02	20.00	20.08
5	25	0		19.97	19.97	20.05



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.35	22.40	22.64
20	1	49		22.19	22.21	22.42
20	1	99		22.08	22.17	22.42
20	50	0		21.36	21.39	21.55
20	50	24		21.25	21.29	21.53
20	50	50		21.24	21.17	21.39
20	100	0		21.25	21.27	21.53
20	1	0	16-QAM	21.74	21.72	21.98
20	1	49		21.54	21.55	21.77
20	1	99		21.44	21.48	21.78
20	50	0		20.47	20.49	20.60
20	50	24		20.35	20.37	20.62
20	50	50		20.33	20.28	20.51
20	100	0		20.35	20.37	20.60
20	1	0	64QAM	20.64	20.57	20.82
20	1	49		20.49	20.43	20.63
20	1	99		20.40	20.39	20.61
20	50	0		19.50	19.51	19.61
20	50	24		19.36	19.40	19.64
20	50	50		19.36	19.31	19.53
20	100	0		19.39	19.40	19.61
15	1	0	QPSK	22.36	22.38	22.63
15	1	37		22.11	22.20	22.51
15	1	74		22.13	22.25	22.44
15	36	0		21.27	21.36	21.54
15	36	20		21.28	21.29	21.46
15	36	39		21.20	21.23	21.48
15	75	0		21.27	21.27	21.46
15	1	0	16-QAM	21.68	21.70	22.00
15	1	37		21.45	21.55	21.86
15	1	74		21.45	21.64	21.75



15	36	0		20.34	20.44	20.65
15	36	20		20.36	20.34	20.53
15	36	39		20.27	20.29	20.56
15	75	0		20.34	20.35	20.56
15	1	0	64QAM	20.67	20.62	20.89
15	1	37		20.42	20.51	20.76
15	1	74		20.41	20.50	20.68
15	36	0		19.37	19.49	19.68
15	36	20		19.40	19.42	19.62
15	36	39		19.33	19.34	19.62
15	75	0		19.36	19.38	19.56



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.25	22.23	22.49
10	1	25		22.11	22.22	22.45
10	1	49		22.01	22.10	22.37
10	25	0		21.23	21.32	21.46
10	25	12		21.20	21.29	21.49
10	25	25		21.10	21.21	21.47
10	50	0		21.18	21.25	21.39
10	1	0	16-QAM	21.60	21.55	21.83
10	1	25		21.48	21.57	21.82
10	1	49		21.38	21.46	21.71
10	25	0		20.35	20.39	20.54
10	25	12		20.27	20.36	20.61
10	25	25		20.21	20.30	20.54
10	50	0		20.27	20.33	20.48
10	1	0	64QAM	20.54	20.51	20.72
10	1	25		20.42	20.45	20.68
10	1	49		20.33	20.36	20.61
10	25	0		19.36	19.41	19.59
10	25	12		19.32	19.39	19.59
10	25	25		19.25	19.32	19.55
10	50	0		19.32	19.37	19.54
5	1	0	QPSK	22.23	22.21	22.46
5	1	12		22.23	22.24	22.38
5	1	24		22.14	22.19	22.38
5	12	0		21.23	21.28	21.46
5	12	7		21.19	21.24	21.43
5	12	13		21.17	21.23	21.41
5	25	0		21.21	21.23	21.44
5	1	0	16-QAM	21.57	21.53	21.81
5	1	12		21.53	21.50	21.73
5	1	24		21.44	21.50	21.71
5	12	0		20.36	20.37	20.52
5	12	7		20.30	20.32	20.54



5	12	13	64QAM	20.28	20.33	20.49
5	25	0		20.29	20.31	20.52
5	1	0		20.53	20.44	20.76
5	1	12		20.47	20.48	20.67
5	1	24		20.38	20.46	20.65
5	12	0		19.38	19.41	19.61
5	12	7		19.39	19.41	19.59
5	12	13		19.32	19.37	19.54
5	25	0		19.28	19.35	19.53



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.20	22.20	22.41
3	1	8		22.17	22.18	22.39
3	1	14		22.12	22.17	22.34
3	8	0		21.25	21.23	21.42
3	8	4		21.23	21.27	21.43
3	8	7		21.21	21.19	21.40
3	15	0		21.20	21.23	21.38
3	1	0	16-QAM	21.57	21.59	21.74
3	1	8		21.55	21.59	21.74
3	1	14		21.47	21.50	21.66
3	8	0		20.37	20.38	20.56
3	8	4		20.39	20.41	20.57
3	8	7		20.30	20.34	20.52
3	15	0		20.29	20.32	20.52
3	1	0	64QAM	20.45	20.49	20.70
3	1	8		20.45	20.46	20.66
3	1	14		20.44	20.43	20.64
3	8	0		19.37	19.41	19.53
3	8	4		19.39	19.41	19.55
3	8	7		19.35	19.39	19.53
3	15	0		19.33	19.31	19.49
1.4	1	0	QPSK	22.15	22.17	22.30
1.4	1	3		22.22	22.21	22.38
1.4	1	5		22.11	22.15	22.31
1.4	3	0		22.20	22.18	22.35
1.4	3	1		22.22	22.21	22.38
1.4	3	3		22.17	22.17	22.35
1.4	6	0		21.16	21.14	21.36
1.4	1	0	16-QAM	21.49	21.45	21.65
1.4	1	3		21.56	21.54	21.69
1.4	1	5		21.47	21.47	21.60
1.4	3	0		21.28	21.27	21.42
1.4	3	1		21.32	21.31	21.44



1.4	3	3		21.23	21.27	21.43
1.4	6	0		20.33	20.35	20.51
1.4	1	0	64QAM	20.42	20.39	20.57
1.4	1	3		20.49	20.42	20.63
1.4	1	5		20.37	20.37	20.55
1.4	3	0		20.40	20.43	20.59
1.4	3	1		20.47	20.47	20.62
1.4	3	3		20.37	20.40	20.58
1.4	6	0		19.24	19.25	19.45



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.27	23.24	23.33
15	1	37		22.66	22.63	22.72
15	1	74		23.05	23.02	23.12
15	36	0		21.89	21.86	21.95
15	36	20		21.74	21.71	21.80
15	36	39		21.80	21.77	21.82
15	75	0		21.85	21.82	21.91
15	1	0	16-QAM	22.49	22.46	22.50
15	1	37		21.96	21.93	21.98
15	1	74		22.37	22.34	21.75
15	36	0		20.98	20.95	21.04
15	36	20		20.85	20.82	20.90
15	36	39		20.88	20.85	20.91
15	75	0		20.94	20.91	20.97
15	1	0	64QAM	21.54	21.51	21.54
15	1	37		21.04	21.01	21.10
15	1	74		21.42	21.39	20.90
15	36	0		20.17	20.14	20.19
15	36	20		19.98	19.95	20.06
15	36	39		20.06	20.03	20.13
15	75	0		20.09	20.06	20.13



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.78	22.73	22.77
10	1	25		22.66	22.74	22.77
10	1	49		22.76	22.69	22.30
10	25	0		21.73	21.78	21.86
10	25	12		21.72	21.75	21.83
10	25	25		21.77	21.70	21.81
10	50	0		21.81	21.78	21.82
10	1	0	16-QAM	22.10	22.06	22.13
10	1	25		21.94	22.07	22.11
10	1	49		22.11	22.03	21.59
10	25	0		20.83	20.87	20.93
10	25	12		20.81	20.84	20.97
10	25	25		20.88	20.81	20.92
10	50	0		20.89	20.85	20.95
10	1	0	64QAM	21.02	21.01	21.05
10	1	25		20.93	20.98	21.05
10	1	49		21.01	20.96	20.80
10	25	0		19.88	19.92	19.97
10	25	12		19.86	19.87	19.94
10	25	25		19.87	19.81	19.92
10	50	0		19.94	19.88	19.96
5	1	0	QPSK	22.70	22.63	22.74
5	1	12		22.64	22.69	22.68
5	1	24		22.65	22.65	22.43
5	12	0		21.72	21.73	21.79
5	12	7		21.70	21.74	21.78
5	12	13		21.71	21.72	21.74
5	25	0		21.68	21.72	21.75
5	1	0	16-QAM	22.01	21.96	22.07
5	1	12		21.98	21.98	22.04
5	1	24		21.91	22.04	21.81
5	12	0		20.82	20.79	20.90
5	12	7		20.78	20.81	20.83



5	12	13		20.77	20.76	20.80
5	25	0		20.74	20.79	20.85
5	1	0	64QAM	21.02	20.95	21.04
5	1	12		20.94	21.00	21.00
5	1	24		20.94	20.95	20.82
5	12	0		19.90	19.91	19.97
5	12	7		19.93	19.90	19.96
5	12	13		19.89	19.85	19.90
5	25	0		19.84	19.85	19.86



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.65	22.60	22.72
3	1	8		22.65	22.69	22.68
3	1	14		22.64	22.63	22.15
3	8	0		21.70	21.71	21.76
3	8	4		21.73	21.73	21.79
3	8	7		21.69	21.67	21.71
3	15	0		21.72	21.71	21.73
3	1	0	16-QAM	21.99	21.88	22.01
3	1	8		22.01	21.97	21.95
3	1	14		21.97	21.98	21.54
3	8	0		20.81	20.84	20.88
3	8	4		20.83	20.85	20.88
3	8	7		20.81	20.80	20.83
3	15	0		20.77	20.78	20.81
3	1	0	64QAM	20.94	20.90	20.97
3	1	8		20.95	20.96	20.95
3	1	14		20.90	21.00	20.59
3	8	0		19.86	19.88	19.92
3	8	4		19.91	19.89	19.92
3	8	7		19.85	19.86	19.87
3	15	0		19.85	19.85	19.88
1.4	1	0	QPSK	22.57	22.62	22.60
1.4	1	3		22.67	22.70	22.34
1.4	1	5		22.62	22.61	22.04
1.4	3	0		22.64	22.65	22.53
1.4	3	1		22.68	22.71	22.40
1.4	3	3		22.64	22.66	22.15
1.4	6	0		21.65	21.66	21.45
1.4	1	0	16-QAM	21.93	21.98	21.88
1.4	1	3		22.01	22.02	21.66
1.4	1	5		21.91	21.94	21.40
1.4	3	0		21.72	21.75	21.60
1.4	3	1		21.77	21.79	21.55



1.4	3	3		21.70	21.76	21.27
1.4	6	0		20.77	20.81	20.61
1.4	1	0	64QAM	20.89	20.93	20.90
1.4	1	3		20.95	20.97	20.65
1.4	1	5		20.85	20.92	20.32
1.4	3	0		20.89	20.92	20.87
1.4	3	1		20.92	20.97	20.75
1.4	3	3		20.89	20.90	20.51
1.4	6	0		19.80	19.79	19.60



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.08	22.85	22.94
20	1	49		22.92	22.75	22.86
20	1	99		22.95	22.78	22.87
20	50	0		22.17	21.97	22.09
20	50	24		22.09	21.88	22.01
20	50	50		22.01	21.96	21.96
20	100	0		22.09	21.90	22.05
20	1	0	16-QAM	22.46	22.12	22.31
20	1	49		22.21	22.12	22.24
20	1	99		22.28	22.12	22.13
20	50	0		21.25	20.97	21.22
20	50	24		21.21	21.04	21.11
20	50	50		21.11	21.05	21.09
20	100	0		21.18	21.01	21.12
20	1	0	64QAM	21.30	20.99	21.11
20	1	49		21.11	20.95	21.10
20	1	99		21.08	20.97	20.94
20	50	0		20.18	19.99	20.14
20	50	24		20.16	19.95	20.05
20	50	50		20.08	20.04	19.99
20	100	0		20.15	19.96	20.13
15	1	0	QPSK	23.07	22.87	22.99
15	1	37		23.02	22.79	22.86
15	1	74		23.07	22.84	22.85
15	36	0		22.12	21.88	22.02
15	36	20		22.07	21.87	22.10
15	36	39		22.09	21.90	22.01
15	75	0		22.07	21.90	22.06
15	1	0	16-QAM	22.34	22.18	22.26
15	1	37		22.40	22.05	22.18
15	1	74		22.30	22.11	22.17
15	36	0		21.17	20.96	21.07



15	36	20		21.10	20.97	21.18
15	36	39		21.11	20.98	21.09
15	75	0		21.14	21.00	21.12
15	1	0	64QAM	21.31	20.93	21.19
15	1	37		21.16	20.91	21.03
15	1	74		21.18	20.94	21.04
15	36	0		20.16	19.91	20.10
15	36	20		20.12	20.02	20.14
15	36	39		20.15	19.95	20.00
15	75	0		20.12	19.98	20.15



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.03	22.80	22.85
10	1	25		22.97	22.76	22.92
10	1	49		23.00	22.70	22.85
10	25	0		22.08	21.87	21.97
10	25	12		22.13	21.91	22.05
10	25	25		22.13	21.86	22.00
10	50	0		22.14	21.88	22.05
10	1	0	16-QAM	22.32	22.19	22.20
10	1	25		22.25	22.11	22.27
10	1	49		22.30	22.07	22.19
10	25	0		21.17	20.98	21.12
10	25	12		21.21	21.03	21.17
10	25	25		21.24	21.02	21.16
10	50	0		21.19	21.04	21.12
10	1	0	64QAM	21.21	21.06	21.07
10	1	25		21.23	20.94	21.09
10	1	49		21.15	20.92	21.01
10	25	0		20.18	19.96	20.11
10	25	12		20.27	20.07	20.20
10	25	25		20.27	20.02	20.15
10	50	0		20.13	19.92	20.06
5	1	0	QPSK	23.02	22.73	22.95
5	1	12		23.02	22.77	22.86
5	1	24		22.92	22.76	22.83
5	12	0		22.16	21.85	22.05
5	12	7		22.13	21.92	22.12
5	12	13		22.11	21.92	22.02
5	25	0		22.02	21.86	22.07
5	1	0	16-QAM	22.25	22.05	22.31
5	1	12		22.29	22.10	22.23
5	1	24		22.22	22.10	22.21
5	12	0		21.26	20.99	21.19
5	12	7		21.22	21.01	21.20



5	12	13		21.18	21.01	21.14
5	25	0		21.17	20.98	21.24
5	1	0	64QAM	21.13	20.93	21.14
5	1	12		21.18	21.07	21.10
5	1	24		21.11	21.01	21.03
5	12	0		20.19	19.95	20.15
5	12	7		20.15	20.03	20.17
5	12	13		20.17	19.93	20.11
5	25	0		20.22	19.99	20.14



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.60	22.76	21.96
20	1	49		22.53	22.64	22.88
20	1	99		22.51	22.73	21.95
20	50	0		21.68	21.89	22.07
20	50	24		21.75	21.98	22.17
20	50	50		21.56	21.83	21.93
20	100	0		21.55	21.98	22.07
20	1	0	16-QAM	21.96	22.06	21.36
20	1	49		21.87	21.95	22.25
20	1	99		21.85	22.05	21.34
20	50	0		20.77	21.00	21.18
20	50	24		20.64	21.09	21.30
20	50	50		20.64	21.01	21.08
20	100	0		20.66	21.06	21.17
20	1	0	64QAM	20.99	20.92	20.21
20	1	49		20.91	20.82	21.12
20	1	99		20.85	20.91	20.50
20	50	0		19.90	19.96	20.19
20	50	24		19.79	20.01	20.32
20	50	50		19.77	19.98	20.09
20	100	0		19.81	20.06	20.22
15	1	0	QPSK	22.60	22.81	22.83
15	1	37		22.52	22.71	22.75
15	1	74		22.56	22.73	22.81
15	36	0		21.59	21.93	22.22
15	36	20		21.61	21.96	22.03
15	36	39		21.56	21.84	22.08
15	75	0		21.61	21.96	22.21
15	1	0	16-QAM	21.89	22.07	22.44
15	1	37		21.83	22.00	22.22
15	1	74		21.88	22.03	22.30
15	36	0		20.70	20.94	21.29



15	36	20		20.70	21.00	21.14
15	36	39		20.68	20.91	21.13
15	75	0		20.67	21.00	21.31
15	1	0	64QAM	20.91	20.94	21.27
15	1	37		20.83	20.84	21.13
15	1	74		20.86	20.84	21.21
15	36	0		19.86	20.01	20.30
15	36	20		19.86	19.99	20.14
15	36	39		19.81	19.95	20.24
15	75	0		19.82	20.03	20.30



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.40	22.72	22.82
10	1	25		22.44	22.70	22.71
10	1	49		22.43	22.73	22.83
10	25	0		21.52	21.88	22.06
10	25	12		21.53	21.80	22.05
10	25	25		21.49	21.80	22.09
10	50	0		21.53	21.93	22.11
10	1	0	16-QAM	21.77	22.01	22.39
10	1	25		21.78	21.97	22.24
10	1	49		21.81	22.00	22.41
10	25	0		20.69	21.00	21.17
10	25	12		20.65	20.96	21.12
10	25	25		20.66	20.93	21.19
10	50	0		20.61	21.06	21.18
10	1	0	64QAM	20.82	20.92	21.30
10	1	25		20.82	20.87	21.18
10	1	49		20.78	20.88	21.32
10	25	0		19.84	20.05	20.27
10	25	12		19.83	19.96	20.19
10	25	25		19.78	19.93	20.22
10	50	0		19.76	19.99	20.19
5	1	0	QPSK	22.36	22.64	22.75
5	1	12		22.39	22.67	22.77
5	1	24		22.36	22.64	22.90
5	12	0		21.52	21.79	22.03
5	12	7		21.49	21.86	22.07
5	12	13		21.47	21.85	22.05
5	25	0		21.48	21.77	22.02
5	1	0	16-QAM	21.76	21.91	22.30
5	1	12		21.71	21.97	22.33
5	1	24		21.73	21.91	22.29
5	12	0		20.62	20.90	21.15



5	12	7		20.65	20.92	21.18
5	12	13		20.61	20.91	21.14
5	25	0		20.60	20.90	21.17
5	1	0	64QAM	20.73	20.80	21.19
5	1	12		20.77	20.85	21.19
5	1	24		20.75	20.86	21.23
5	12	0		19.76	19.90	20.17
5	12	7		19.81	19.94	20.21
5	12	13		19.77	19.93	20.19
5	25	0		19.79	19.91	20.18



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.48	22.78	22.67
20	1	49		22.27	22.56	22.35
20	1	99		22.12	22.46	22.21
20	50	0		21.32	21.76	21.52
20	50	24		21.23	21.67	21.42
20	50	50		21.31	21.58	21.32
20	100	0		21.38	21.65	21.43
20	1	0	16-QAM	21.82	22.13	22.01
20	1	49		21.62	21.89	21.69
20	1	99		21.71	21.80	21.55
20	50	0		20.56	20.87	20.62
20	50	24		20.47	20.75	20.49
20	50	50		20.46	20.67	20.38
20	100	0		20.45	20.72	20.51
20	1	0	64QAM	20.50	20.77	20.38
20	1	49		20.52	20.82	20.44
20	1	99		20.49	20.75	20.36
20	50	0		20.47	20.80	20.41
20	50	24		20.49	20.80	20.44
20	50	50		20.47	20.78	20.41
20	100	0		19.29	19.64	19.24
15	1	0	QPSK	22.49	22.75	22.56
15	1	37		22.21	22.58	22.31
15	1	74		22.35	22.49	22.25
15	36	0		21.35	21.74	21.49
15	36	20		21.38	21.67	21.35
15	36	39		21.31	21.54	21.29
15	75	0		21.42	21.67	21.39
15	1	0	16-QAM	21.81	22.07	21.92
15	1	37		21.54	21.90	21.64
15	1	74		21.69	21.83	21.56
15	36	0		20.42	20.84	20.54
15	36	20		20.48	20.74	20.45
15	36	39		20.40	20.62	20.37



15	75	0	64QAM	20.48	20.74	20.46
15	1	0		20.55	20.84	20.50
15	1	37		20.51	20.86	20.48
15	1	74		20.54	20.80	20.43
15	36	0		19.44	19.71	19.36
15	36	20		19.45	19.79	19.41
15	36	39		19.41	19.72	19.36
15	75	0		19.40	19.69	19.32



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.40	22.64	22.44
10	1	25		22.25	22.56	22.27
10	1	49		22.30	22.52	22.21
10	25	0		21.32	21.67	21.36
10	25	12		21.29	21.61	21.31
10	25	25		21.35	21.59	21.25
10	50	0		21.39	21.62	21.34
10	1	0	16-QAM	21.75	22.00	21.79
10	1	25		21.55	21.92	21.60
10	1	49		21.59	21.84	21.51
10	25	0		20.39	20.74	20.46
10	25	12		20.39	20.69	20.37
10	25	25		20.43	20.64	20.36
10	50	0		20.49	20.70	20.43
10	1	0	64QAM	20.62	20.92	20.61
10	1	25		20.52	20.83	20.47
10	1	49		20.49	20.80	20.44
10	25	0		19.48	19.81	19.42
10	25	12		19.47	19.78	19.41
10	25	25		19.39	19.71	19.35
10	50	0		19.40	19.71	19.35
5	1	0	QPSK	22.33	22.65	22.34
5	1	12		22.25	22.58	22.23
5	1	24		22.21	22.58	22.23
5	12	0		21.28	21.65	21.29
5	12	7		21.27	21.64	21.29
5	12	13		21.27	21.58	21.25
5	25	0		21.30	21.59	21.27
5	1	0	16-QAM	21.65	21.99	21.60
5	1	12		21.62	21.87	21.57
5	1	24		21.57	21.92	21.55
5	12	0		20.38	20.74	20.35
5	12	7		20.38	20.72	20.33



5	12	13		20.33	20.65	20.29
5	25	0		20.34	20.67	20.36
5	1	0	64QAM	20.66	20.85	20.63
5	1	12		20.46	20.79	20.51
5	1	24		20.57	20.71	20.41
5	12	0		19.46	19.80	19.48
5	12	7		19.43	19.74	19.45
5	12	13		19.46	19.67	19.38
5	25	0		19.51	19.76	19.42



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.27	22.61	22.24
3	1	8		22.25	22.58	22.24
3	1	14		22.27	22.54	22.22
3	8	0		21.30	21.60	21.25
3	8	4		21.31	21.61	21.26
3	8	7		21.25	21.60	21.25
3	15	0		21.25	21.60	21.24
3	1	0	16-QAM	21.67	21.89	21.54
3	1	8		21.61	21.89	21.51
3	1	14		21.56	21.87	21.54
3	8	0		20.45	20.69	20.35
3	8	4		20.45	20.74	20.37
3	8	7		20.39	20.70	20.36
3	15	0		20.36	20.68	20.32
3	1	0	64QAM	20.78	21.01	20.83
3	1	8		20.50	20.81	20.52
3	1	14		20.60	20.73	20.52
3	8	0		19.51	19.84	19.58
3	8	4		19.53	19.80	19.51
3	8	7		19.47	19.70	19.41
3	15	0		19.52	19.72	19.49
1.4	1	0	QPSK	22.22	22.52	22.17
1.4	1	3		22.28	22.58	22.23
1.4	1	5		22.23	22.50	22.13
1.4	3	0		22.22	22.53	22.20
1.4	3	1		22.27	22.56	22.22
1.4	3	3		22.22	22.54	22.19
1.4	6	0		21.20	21.55	21.16
1.4	1	0	16-QAM	21.50	21.86	21.51
1.4	1	3		21.63	21.93	21.54
1.4	1	5		21.49	21.83	21.48
1.4	3	0		21.34	21.67	21.29
1.4	3	1		21.35	21.67	21.33



1.4	3	3		21.31	21.64	21.25
1.4	6	0		20.36	20.68	20.28
1.4	1	0	64QAM	20.82	21.10	20.96
1.4	1	3		20.61	20.85	20.63
1.4	1	5		20.60	20.76	20.51
1.4	3	0		20.00	19.90	20.06
1.4	3	1		20.10	19.92	20.10
1.4	3	3		20.02	19.99	20.13
1.4	6	0		19.49	19.77	19.55



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.95	23.15	23.16
20	1	49		23.00	23.13	23.15
20	1	99		23.09	23.11	23.12
20	50	0		22.04	22.13	22.13
20	50	24		22.10	22.11	22.14
20	50	50		22.14	22.14	22.17
20	100	0		22.16	22.11	22.19
20	1	0	16-QAM	22.30	22.37	22.44
20	1	49		22.35	22.50	22.38
20	1	99		22.48	22.46	22.45
20	50	0		21.16	21.23	21.17
20	50	24		21.25	21.24	21.29
20	50	50		21.22	21.20	21.25
20	100	0		21.24	21.24	21.28
20	1	0	64-QAM	21.59	21.64	21.55
20	1	49		21.55	21.59	21.52
20	1	99		21.48	21.52	21.44
20	50	0		20.38	20.50	20.42
20	50	24		20.45	20.44	20.39
20	50	50		20.36	20.34	20.28
20	100	0		20.42	20.39	20.35
15	1	0	QPSK	22.96	23.07	23.07
15	1	37		22.99	23.04	23.06
15	1	74		23.01	22.66	23.07
15	36	0		22.06	22.07	22.08
15	36	20		22.05	22.08	22.09
15	36	39		22.01	22.09	22.10
15	75	0		22.05	22.31	22.32
15	1	0	16-QAM	22.34	22.41	22.40
15	1	37		22.36	22.38	22.35
15	1	74		22.36	22.19	22.42
15	36	0		21.16	21.21	21.15
15	36	20		21.14	21.18	21.13
15	36	39		21.13	21.17	21.10



15	75	0	64-QAM	21.15	21.24	21.16
15	1	0		21.62	21.66	21.55
15	1	37		21.51	21.56	21.59
15	1	74		21.53	21.54	21.58
15	36	0		20.45	20.47	20.46
15	36	20		20.40	20.50	20.51
15	36	39		20.28	20.32	20.28
15	75	0		20.33	20.43	20.47



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.92	22.90	23.01
10	1	25		22.98	22.99	22.97
10	1	49		22.99	23.01	23.01
10	25	0		22.02	22.04	22.02
10	25	12		22.01	21.98	22.05
10	25	25		21.98	22.02	21.98
10	50	0		22.05	21.99	22.00
10	1	0	16-QAM	22.30	22.24	22.43
10	1	25		22.32	22.28	22.30
10	1	49		22.35	22.31	22.35
10	25	0		21.09	21.13	21.08
10	25	12		21.09	21.09	21.07
10	25	25		21.11	21.08	21.08
10	50	0		21.13	21.11	21.07
10	1	0	64-QAM	21.62	21.69	21.65
10	1	25		21.60	21.67	21.59
10	1	49		21.62	21.66	21.63
10	25	0		20.49	20.48	20.44
10	25	12		20.52	20.50	20.45
10	25	25		20.41	20.48	20.38
10	50	0		20.33	20.49	20.42
5	1	0	QPSK	22.89	23.02	23.01
5	1	12		23.01	22.95	23.03
5	1	24		23.01	23.04	22.99
5	12	0		21.95	22.00	22.01
5	12	7		22.08	22.01	22.02
5	12	13		22.02	22.02	22.03
5	25	0		22.07	22.00	21.99
5	1	0	16-QAM	22.25	22.35	22.32
5	1	12		22.40	22.34	22.30
5	1	24		22.43	22.35	22.30
5	12	0		21.08	21.11	21.12
5	12	7		21.14	21.13	21.15



5	12	13		21.13	21.10	21.07
5	25	0		21.15	21.09	21.09
5	1	0	64-QAM	21.60	21.63	21.65
5	1	12		21.50	21.56	21.59
5	1	24		21.62	21.67	21.61
5	12	0		20.41	20.44	20.38
5	12	7		20.38	20.45	20.29
5	12	13		20.32	20.36	20.32
5	25	0		20.31	20.38	20.36



Bottom Antenna:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.07	23.15	23.23
20	1	49		22.86	22.90	23.08
20	1	99		22.78	22.97	23.04
20	50	0		21.87	21.96	22.13
20	50	24		21.84	21.85	22.10
20	50	50		21.75	21.83	22.09
20	100	0		21.98	22.04	22.12
20	1	0	16-QAM	22.74	22.78	22.83
20	1	49		22.44	22.48	22.52
20	1	99		22.39	22.43	22.51
20	50	0		21.05	21.25	21.31
20	50	24		21.17	21.17	21.27
20	50	50		21.02	21.11	21.18
20	100	0		21.00	21.06	21.09
20	1	0	64QAM	20.99	20.82	21.14
20	1	49		20.71	20.69	20.99
20	1	99		20.61	20.63	20.55
20	50	0		19.78	19.82	20.02
20	50	24		19.77	19.76	19.90
20	50	50		19.71	19.67	19.94
20	100	0		19.83	19.75	19.86
15	1	0	QPSK	23.05	23.12	23.22
15	1	37		22.87	22.90	23.06
15	1	74		22.89	22.92	23.02
15	36	0		21.87	21.95	22.23
15	36	20		21.87	21.95	22.15
15	36	39		21.91	21.80	22.09
15	75	0		21.98	21.90	22.04
15	1	0	16-QAM	22.66	22.76	22.84
15	1	37		22.38	22.49	22.54
15	1	74		22.28	22.30	22.34
15	36	0		21.05	21.06	21.20
15	36	20		20.99	20.97	21.20



15	36	39	64QAM	21.10	20.85	21.09
15	75	0		21.17	21.08	21.06
15	1	0		21.12	21.02	21.21
15	1	37		20.80	21.03	21.10
15	1	74		20.87	20.95	21.01
15	36	0		19.78	19.78	19.85
15	36	20		19.68	19.74	19.89
15	36	39		19.73	19.59	19.87
15	75	0		19.83	19.70	19.75



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.03	23.12	23.21
10	1	25		22.80	22.88	23.10
10	1	49		22.78	22.81	23.05
10	25	0		21.88	21.97	22.15
10	25	12		21.81	21.91	22.07
10	25	25		21.75	21.90	22.01
10	50	0		21.91	21.92	22.06
10	1	0	16-QAM	22.58	22.66	22.70
10	1	25		22.47	22.52	22.61
10	1	49		22.22	22.39	22.46
10	25	0		21.11	21.08	21.21
10	25	12		21.05	21.02	21.13
10	25	25		20.96	20.91	21.08
10	50	0		20.97	21.01	21.26
10	1	0	64QAM	20.72	20.78	20.91
10	1	25		20.65	20.68	20.75
10	1	49		20.58	20.55	20.74
10	25	0		19.76	19.68	19.89
10	25	12		19.70	19.65	19.77
10	25	25		19.63	19.62	19.72
10	50	0		19.68	19.68	19.83
5	1	0	QPSK	22.90	22.95	23.08
5	1	12		22.92	22.93	23.04
5	1	24		22.66	22.72	23.01
5	12	0		21.96	21.89	22.05
5	12	7		21.98	21.84	22.09
5	12	13		21.98	21.83	22.02
5	25	0		21.90	21.83	22.07
5	1	0	16-QAM	22.53	22.61	22.73
5	1	12		22.50	22.49	22.60
5	1	24		22.35	22.40	22.46
5	12	0		21.07	20.93	21.21
5	12	7		21.17	20.87	21.21



5	12	13		21.04	20.92	21.10
5	25	0		21.13	20.98	21.15
5	1	0	64QAM	21.06	20.90	21.14
5	1	12		20.94	20.82	20.99
5	1	24		20.93	20.81	20.99
5	12	0		19.89	19.77	19.90
5	12	7		19.84	19.80	19.91
5	12	13		19.72	19.66	19.83
5	25	0		19.68	19.71	19.75



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.93	22.97	23.08
3	1	8		22.83	22.91	23.05
3	1	14		22.86	22.94	23.03
3	8	0		21.96	21.98	22.07
3	8	4		21.86	21.88	22.06
3	8	7		21.81	21.89	22.05
3	15	0		21.94	21.85	22.01
3	1	0	16-QAM	22.15	22.20	22.59
3	1	8		22.09	22.19	22.59
3	1	14		22.07	22.18	22.33
3	8	0		21.01	21.01	21.17
3	8	4		21.13	20.93	21.20
3	8	7		21.15	21.09	21.14
3	15	0		21.09	21.04	21.23
3	1	0	64QAM	20.97	20.90	20.99
3	1	8		20.93	20.83	21.04
3	1	14		20.96	20.87	20.96
3	8	0		19.74	19.73	19.81
3	8	4		19.79	19.74	19.74
3	8	7		19.72	19.71	19.78
3	15	0		19.71	19.59	19.66
1.4	1	0	QPSK	22.94	23.04	23.12
1.4	1	3		22.88	22.90	23.08
1.4	1	5		22.71	22.81	22.94
1.4	3	0		22.91	22.92	23.05
1.4	3	1		22.79	22.84	23.05
1.4	3	3		22.75	22.80	23.00
1.4	6	0		21.93	21.93	22.07
1.4	1	0	16-QAM	22.19	22.38	22.22
1.4	1	3		22.62	22.09	22.29
1.4	1	5		22.19	22.39	22.43
1.4	3	0		22.09	21.83	22.02
1.4	3	1		22.00	21.83	21.99



1.4	3	3		22.10	21.89	22.14
1.4	6	0		21.05	20.93	21.19
1.4	1	0	64QAM	20.99	20.79	20.63
1.4	1	3		20.97	20.88	20.67
1.4	1	5		20.87	20.85	20.84
1.4	3	0		20.72	20.67	20.77
1.4	3	1		20.77	20.73	20.75
1.4	3	3		20.73	20.64	20.69
1.4	6	0		19.85	19.76	19.70



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.33	23.42	23.59
20	1	49		23.25	23.32	23.38
20	1	99		23.11	23.22	23.26
20	50	0		22.37	22.46	22.56
20	50	24		22.23	22.32	22.39
20	50	50		22.22	22.22	22.23
20	100	0		22.29	22.38	22.41
20	1	0	16-QAM	22.58	22.71	22.95
20	1	49		22.53	22.67	22.78
20	1	99		22.41	22.48	22.59
20	50	0		21.40	21.46	21.53
20	50	24		21.35	21.39	21.48
20	50	50		21.15	21.22	21.28
20	100	0		21.36	21.46	21.47
20	1	0	64QAM	20.82	21.31	21.52
20	1	49		20.59	21.22	21.31
20	1	99		20.64	21.29	21.29
20	50	0		20.02	20.23	20.20
20	50	24		19.95	20.06	20.11
20	50	50		19.98	20.00	20.05
20	100	0		19.87	20.14	20.04
15	1	0	QPSK	23.30	23.40	23.50
15	1	37		23.23	23.26	23.35
15	1	74		23.15	23.17	23.24
15	36	0		22.28	22.46	22.47
15	36	20		22.27	22.34	22.35
15	36	39		22.18	22.29	22.32
15	75	0		22.17	22.19	22.26
15	1	0	16-QAM	22.57	22.62	22.72
15	1	37		22.31	22.42	22.63
15	1	74		22.26	22.35	22.52
15	36	0		21.24	21.54	21.48



15	36	20		21.31	21.49	21.40
15	36	39		21.38	21.42	21.43
15	75	0		21.36	21.44	21.33
15	1	0	64QAM	21.24	21.22	21.26
15	1	37		21.03	21.02	21.08
15	1	74		21.19	21.04	21.07
15	36	0		19.93	20.18	20.12
15	36	20		19.95	20.11	20.15
15	36	39		19.96	19.97	20.11
15	75	0		19.98	20.08	20.07



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.12	23.29	23.35
10	1	25		23.11	23.21	23.28
10	1	49		23.07	23.13	23.19
10	25	0		22.18	22.38	22.41
10	25	12		22.17	22.36	22.37
10	25	25		22.17	22.29	22.30
10	50	0		22.23	22.27	22.29
10	1	0	16-QAM	22.22	22.88	22.93
10	1	25		22.62	22.81	22.85
10	1	49		22.74	22.91	22.48
10	25	0		21.26	21.43	21.39
10	25	12		21.25	21.35	21.46
10	25	25		21.37	21.36	21.43
10	50	0		21.32	21.43	21.33
10	1	0	64QAM	21.15	21.36	21.37
10	1	25		21.04	21.25	21.27
10	1	49		21.09	21.39	21.30
10	25	0		19.81	20.17	20.10
10	25	12		19.74	20.15	20.13
10	25	25		19.84	20.00	20.17
10	50	0		19.95	20.11	20.03
5	1	0	QPSK	23.17	23.23	23.43
5	1	12		23.14	23.20	23.36
5	1	24		23.11	23.14	23.25
5	12	0		22.21	22.38	22.33
5	12	7		22.08	22.36	22.37
5	12	13		22.17	22.32	22.27
5	25	0		22.10	22.30	22.35
5	1	0	16-QAM	22.38	22.82	22.60
5	1	12		22.48	22.66	22.31
5	1	24		22.22	22.32	22.87
5	12	0		21.29	21.42	21.37
5	12	7		21.29	21.37	21.43



5	12	13	64QAM	21.25	21.39	21.39
5	25	0		21.24	21.34	21.42
5	1	0		21.02	21.25	21.21
5	1	12		20.90	21.13	21.33
5	1	24		20.88	21.10	21.32
5	12	0		19.81	20.05	20.10
5	12	7		19.82	20.13	20.04
5	12	13		19.78	20.06	20.04
5	25	0		19.81	20.07	20.06



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.12	23.30	23.30
3	1	8		23.09	23.18	23.18
3	1	14		22.94	23.21	23.24
3	8	0		22.15	22.27	22.28
3	8	4		22.18	22.29	22.39
3	8	7		22.10	22.34	22.30
3	15	0	16-QAM	22.13	22.27	22.39
3	1	0		22.59	22.43	22.84
3	1	8		22.38	22.83	22.58
3	1	14		22.56	22.56	22.50
3	8	0		21.31	21.42	21.41
3	8	4		21.24	21.54	21.51
3	8	7	64QAM	21.32	21.41	21.44
3	15	0		21.27	21.30	21.31
3	1	0		20.89	21.11	21.04
3	1	8		20.79	21.07	21.04
3	1	14		20.74	20.95	21.07
3	8	0		19.70	19.99	20.00
3	8	4	QPSK	19.78	20.01	20.02
3	8	7		19.72	19.93	19.99
3	15	0		19.91	20.19	20.14
1.4	1	0		23.03	23.23	23.25
1.4	1	3		23.09	23.25	23.24
1.4	1	5		23.01	23.21	23.23
1.4	3	0	16-QAM	23.09	23.21	23.32
1.4	3	1		23.01	23.23	23.24
1.4	3	3		23.00	23.26	23.21
1.4	6	0		22.08	22.20	22.19
1.4	1	0		22.27	22.20	22.79
1.4	1	3		22.64	22.85	22.56
1.4	1	5	16-QAM	22.16	22.40	22.69
1.4	3	0		22.01	22.34	22.41
1.4	3	1		22.18	22.16	22.33



1.4	3	3		22.15	22.22	22.34
1.4	6	0		21.20	21.46	21.36
1.4	1	0	64QAM	20.96	21.19	21.17
1.4	1	3		21.02	21.21	21.24
1.4	1	5		20.90	21.14	21.17
1.4	3	0		20.83	21.14	21.04
1.4	3	1		20.93	21.20	21.04
1.4	3	3		20.85	21.12	21.11
1.4	6	0		19.63	19.92	20.18



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.26	23.34	23.45
10	1	25		23.18	23.20	23.41
10	1	49		23.12	23.18	23.35
10	25	0		22.23	22.38	22.41
10	25	12		22.22	22.36	22.37
10	25	25		22.16	22.21	22.29
10	50	0		22.28	22.31	22.36
10	1	0	16-QAM	22.59	22.61	22.62
10	1	25		22.25	22.30	22.35
10	1	49		22.18	22.25	22.27
10	25	0		21.32	21.46	21.44
10	25	12		21.30	21.45	21.48
10	25	25		21.33	21.45	21.45
10	50	0		21.43	21.48	21.36
10	1	0	64QAM	21.02	21.11	21.32
10	1	25		20.97	21.07	21.29
10	1	49		21.08	21.15	21.26
10	25	0		19.98	20.18	20.27
10	25	12		20.02	20.11	20.19
10	25	25		20.10	20.06	20.25
10	50	0		20.10	20.09	20.21
5	1	0	QPSK	23.39	23.25	23.33
5	1	12		23.15	23.27	23.28
5	1	24		23.28	23.15	23.23
5	12	0		22.29	22.23	22.46
5	12	7		22.30	22.27	22.45
5	12	13		22.26	22.26	22.40
5	25	0		22.23	22.23	22.38
5	1	0	16-QAM	22.65	22.68	22.97
5	1	12		22.35	22.59	22.62
5	1	24		22.74	22.44	22.49
5	12	0		21.32	21.31	21.60
5	12	7		21.28	21.42	21.43



5	12	13	64QAM	21.30	21.33	21.28
5	25	0		21.34	21.23	21.55
5	1	0		21.26	21.44	21.43
5	1	12		21.18	21.32	21.34
5	1	24		21.19	21.37	21.34
5	12	0		20.14	20.28	20.36
5	12	7		20.07	20.22	20.28
5	12	13		20.03	20.22	20.18
5	25	0		20.04	20.15	20.25



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.20	23.20	23.24
3	1	8		23.35	23.35	23.35
3	1	14		23.13	23.13	23.23
3	8	0		22.24	22.24	22.36
3	8	4		22.32	22.32	22.36
3	8	7		22.22	22.22	22.32
3	15	0	16-QAM	22.29	22.29	22.37
3	1	0		22.80	22.80	22.87
3	1	8		22.71	22.71	22.56
3	1	14		22.48	22.48	22.79
3	8	0		21.45	21.45	21.48
3	8	4		21.52	21.52	21.43
3	8	7	64QAM	21.37	21.37	21.48
3	15	0		21.27	21.27	21.57
3	1	0		21.36	21.45	21.59
3	1	8		21.27	21.42	21.46
3	1	14		21.33	21.46	21.53
3	8	0		20.07	20.13	20.21
3	8	4	QPSK	20.05	20.16	20.32
3	8	7		20.09	20.10	20.27
3	15	0		20.07	20.12	20.28
1.4	1	0		23.14	23.23	23.16
1.4	1	3		23.22	23.24	23.16
1.4	1	5		23.09	23.13	23.24
1.4	3	0	16-QAM	23.11	23.25	23.22
1.4	3	1		23.21	23.13	23.18
1.4	3	3		23.17	23.15	23.20
1.4	6	0		22.17	22.12	22.29
1.4	1	0		22.63	22.36	22.76
1.4	1	3		22.55	22.66	22.23
1.4	1	5	16-QAM	22.27	22.08	22.69
1.4	3	0		22.25	22.15	22.40
1.4	3	1		22.41	22.37	22.40



1.4	3	3		22.33	22.29	22.30
1.4	6	0		21.52	21.29	21.28
1.4	1	0	64QAM	20.97	21.09	20.99
1.4	1	3		21.08	21.14	20.96
1.4	1	5		20.90	21.09	20.88
1.4	3	0		21.21	21.24	21.27
1.4	3	1		21.14	21.32	21.28
1.4	3	3		21.11	21.24	21.20
1.4	6	0		19.86	20.01	20.10



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.22	23.20	23.12
10	1	25		23.31	23.24	23.18
10	1	49		23.42	23.29	23.26
10	25	0		22.33	22.24	22.21
10	25	12		22.39	22.31	22.24
10	25	25		22.43	22.37	22.33
10	50	0		22.29	22.27	22.26
10	1	0	16-QAM	22.78	22.73	22.68
10	1	25		22.85	22.75	22.74
10	1	49		22.96	22.90	22.75
10	25	0		21.41	21.46	21.33
10	25	12		21.49	21.39	21.33
10	25	25		21.36	21.29	21.35
10	50	0		21.40	21.38	21.41
10	1	0	64QAM	21.29	21.52	21.53
10	1	25		21.13	21.61	21.50
10	1	49		21.19	21.50	21.49
10	25	0		20.31	20.29	20.30
10	25	12		20.42	20.28	20.32
10	25	25		20.30	20.33	20.26
10	50	0		20.25	20.28	20.28
5	1	0	QPSK	23.17	23.14	23.28
5	1	12		23.39	23.23	23.22
5	1	24		23.27	23.14	23.18
5	12	0		22.29	22.25	22.24
5	12	7		22.22	22.33	22.25
5	12	13		22.29	22.26	22.27
5	25	0		22.35	22.27	22.20
5	1	0	16-QAM	22.26	22.88	22.76
5	1	12		22.74	22.71	22.23
5	1	24		22.86	22.73	22.47
5	12	0		21.30	21.39	21.31
5	12	7		21.28	21.38	21.41



5	12	13		21.47	21.27	21.41
5	25	0		21.47	21.35	21.43
5	1	0	64QAM	21.44	21.53	21.19
5	1	12		21.49	21.55	21.27
5	1	24		21.50	21.51	21.19
5	12	0		20.26	20.20	20.15
5	12	7		20.36	20.21	20.24
5	12	13		20.39	20.24	20.16
5	25	0		20.23	20.45	20.24



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.21	23.26	23.29
3	1	8		23.15	23.34	23.32
3	1	14		23.26	23.29	23.15
3	8	0		22.23	22.23	22.17
3	8	4		22.20	22.25	22.21
3	8	7		22.19	22.26	22.20
3	15	0		22.23	22.29	22.22
3	1	0	16-QAM	22.31	22.43	22.73
3	1	8		22.44	22.77	22.41
3	1	14		22.79	22.75	22.52
3	8	0		21.22	21.45	21.47
3	8	4		21.39	21.27	21.40
3	8	7		21.49	21.42	21.39
3	15	0		21.41	21.50	21.33
3	1	0	64QAM	21.21	20.96	20.85
3	1	8		21.25	21.01	20.95
3	1	14		21.05	21.11	21.02
3	8	0		20.29	20.29	20.25
3	8	4		20.27	20.31	20.25
3	8	7		20.23	20.31	20.33
3	15	0		20.18	20.28	20.18
1.4	1	0	QPSK	23.17	23.10	23.10
1.4	1	3		23.23	23.26	23.18
1.4	1	5		23.18	23.19	23.10
1.4	3	0		23.15	23.23	23.12
1.4	3	1		23.22	23.24	23.18
1.4	3	3		23.15	23.22	23.11
1.4	6	0		22.21	22.23	22.12
1.4	1	0	16-QAM	22.46	22.33	22.63
1.4	1	3		22.53	22.38	22.31
1.4	1	5		22.32	22.18	22.29
1.4	3	0		22.14	22.37	22.31
1.4	3	1		22.34	22.37	22.15



1.4	3	3	64QAM	22.32	22.28	22.33
1.4	6	0		21.48	21.49	21.32
1.4	1	0		21.08	21.42	21.06
1.4	1	3		21.18	21.26	21.17
1.4	1	5		21.09	21.10	21.07
1.4	3	0		20.97	20.97	21.29
1.4	3	1		20.94	21.39	21.36
1.4	3	3		20.91	20.97	21.31
1.4	6	0		20.07	20.06	20.03



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.16	23.21	23.26
10	1	25		23.18	23.25	23.32
10	1	49		23.29	23.35	23.47
10	25	0		22.17	22.19	22.28
10	25	12		22.21	22.23	22.31
10	25	25		22.27	22.32	22.41
10	50	0		22.20	22.28	22.38
10	1	0	16-QAM	22.56	22.79	22.34
10	1	25		22.78	22.60	22.39
10	1	49		22.90	22.57	22.54
10	25	0		21.44	21.41	21.47
10	25	12		21.34	21.30	21.36
10	25	25		21.39	21.28	21.46
10	50	0		21.37	21.34	21.37
10	1	0	64QAM	21.01	21.39	21.44
10	1	25		20.92	21.36	21.30
10	1	49		20.86	21.40	21.39
10	25	0		20.11	20.16	20.14
10	25	12		20.13	20.14	20.16
10	25	25		20.14	20.12	20.15
10	50	0		20.12	20.11	20.11
5	1	0	QPSK	23.17	23.31	23.25
5	1	12		23.28	23.27	23.24
5	1	24		23.30	23.36	23.33
5	12	0		22.28	22.28	22.28
5	12	7		22.37	22.26	22.25
5	12	13		22.22	22.20	22.28
5	25	0		22.31	22.25	22.20
5	1	0	16-QAM	22.89	22.65	22.37
5	1	12		22.80	22.66	22.38
5	1	24		22.73	22.42	22.83
5	12	0		21.41	21.40	21.36
5	12	7		21.43	21.36	21.26



5	12	13		21.32	21.43	21.38
5	25	0		21.41	21.32	21.34
5	1	0	64QAM	21.18	21.08	21.19
5	1	12		21.16	21.11	21.16
5	1	24		21.14	21.11	21.56
5	12	0		20.12	20.15	20.18
5	12	7		20.15	20.14	20.30
5	12	13		20.08	20.03	20.22
5	25	0		20.13	20.16	20.14



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.94	23.00	23.36
20	1	49		22.91	22.95	23.17
20	1	99		22.83	22.87	23.08
20	50	0		21.98	22.02	22.28
20	50	24		21.89	21.86	22.21
20	50	50		21.87	21.82	22.10
20	100	0		21.92	21.98	22.18
20	1	0	16-QAM	22.55	22.63	22.84
20	1	49		22.32	22.48	22.53
20	1	99		22.23	22.33	22.50
20	50	0		21.11	21.04	21.24
20	50	24		20.90	20.97	21.32
20	50	50		21.07	20.88	21.14
20	100	0		20.97	21.04	21.23
20	1	0	64QAM	20.98	21.09	21.29
20	1	49		20.86	20.87	21.10
20	1	99		20.76	20.82	21.13
20	50	0		19.73	19.82	19.92
20	50	24		19.60	19.72	19.95
20	50	50		19.63	19.63	19.89
20	100	0		19.65	19.63	19.92
15	1	0	QPSK	23.06	22.92	23.31
15	1	37		22.75	22.82	23.12
15	1	74		22.81	22.92	23.18
15	36	0		21.86	21.93	22.18
15	36	20		21.89	21.93	22.21
15	36	39		21.89	21.78	22.23
15	75	0		21.89	21.87	22.15
15	1	0	16-QAM	22.45	21.95	22.79
15	1	37		22.28	21.96	22.78
15	1	74		22.37	22.16	22.38



15	36	0		20.94	21.03	21.43
15	36	20		21.01	20.90	21.28
15	36	39		20.92	20.84	21.26
15	75	0		20.96	20.98	21.26
15	1	0	64QAM	20.67	20.55	21.38
15	1	37		20.31	20.48	21.15
15	1	74		20.30	20.52	21.15
15	36	0		19.68	19.81	20.02
15	36	20		19.78	19.77	19.91
15	36	39		19.65	19.62	19.85
15	75	0		19.71	19.70	19.92



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.95	22.93	23.29
10	1	25		22.73	23.04	23.20
10	1	49		22.76	22.73	23.05
10	25	0		21.86	21.88	22.15
10	25	12		21.84	21.87	22.22
10	25	25		21.75	21.78	22.15
10	50	0		21.84	21.89	22.11
10	1	0	16-QAM	22.18	22.47	22.33
10	1	25		22.02	22.37	22.22
10	1	49		22.24	22.18	22.13
10	25	0		20.95	21.07	21.31
10	25	12		20.95	21.01	21.32
10	25	25		20.85	20.88	21.23
10	50	0		20.92	20.96	21.17
10	1	0	64QAM	20.90	20.63	20.63
10	1	25		20.85	20.58	20.58
10	1	49		20.73	20.55	20.55
10	25	0		19.55	19.75	19.75
10	25	12		19.56	19.73	19.73
10	25	25		19.48	19.65	19.65
10	50	0		19.59	19.75	19.75
5	1	0	QPSK	22.83	22.87	23.28
5	1	12		22.84	22.80	23.09
5	1	24		22.90	22.84	23.19
5	12	0		21.84	21.89	22.18
5	12	7		21.87	21.87	22.14
5	12	13		21.85	21.86	22.18
5	25	0		21.79	21.90	22.23
5	1	0	16-QAM	21.87	21.93	22.52
5	1	12		22.36	22.00	22.40
5	1	24		22.30	22.09	22.78
5	12	0		20.93	21.02	21.29
5	12	7		20.93	20.98	21.25



5	12	13	64QAM	20.97	20.97	21.21
5	25	0		20.96	20.85	21.24
5	1	0		20.89	20.89	21.19
5	1	12		20.83	20.73	21.11
5	1	24		20.74	20.84	21.06
5	12	0		19.76	19.85	19.97
5	12	7		19.71	19.73	20.08
5	12	13		19.64	19.71	19.99
5	25	0		19.64	19.59	19.88



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.74	22.92	23.26
3	1	8		22.79	22.74	23.03
3	1	14		22.81	22.79	23.11
3	8	0		21.81	21.93	22.20
3	8	4		21.88	21.92	22.21
3	8	7		21.86	21.82	22.13
3	15	0	16-QAM	21.82	21.89	22.21
3	1	0		22.15	22.39	22.41
3	1	8		22.43	22.21	22.39
3	1	14		21.88	22.44	22.71
3	8	0		21.07	20.96	21.17
3	8	4		21.06	21.07	21.42
3	8	7	64QAM	20.99	20.91	21.23
3	15	0		20.91	20.91	21.27
3	1	0		20.82	20.99	21.25
3	1	8		20.67	20.90	21.22
3	1	14		20.73	20.71	21.18
3	8	0		19.68	19.74	19.88
3	8	4	QPSK	19.68	19.73	19.94
3	8	7		19.65	19.73	19.92
3	15	0		19.64	19.70	19.88
1.4	1	0		22.80	22.73	23.10
1.4	1	3		22.84	22.87	23.09
1.4	1	5		22.67	22.76	23.04
1.4	3	0	16-QAM	22.81	22.80	23.07
1.4	3	1		22.82	22.87	23.13
1.4	3	3		22.80	22.79	23.10
1.4	6	0		21.75	21.80	22.03
1.4	1	0		22.10	22.36	22.20
1.4	1	3		22.03	22.13	22.67
1.4	1	5	16-QAM	21.83	22.03	22.53
1.4	3	0		21.75	21.99	22.18
1.4	3	1		21.84	21.96	22.36



1.4	3	3		21.90	21.88	22.27
1.4	6	0		20.92	21.00	21.34
1.4	1	0	64QAM	20.65	20.60	20.86
1.4	1	3		20.66	20.68	20.85
1.4	1	5		20.59	20.60	20.82
1.4	3	0		20.38	20.74	20.98
1.4	3	1		20.47	20.86	21.08
1.4	3	3		20.44	20.73	20.96
1.4	6	0		19.52	19.58	19.67



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.43	23.40	23.49
15	1	37		23.29	23.26	23.32
15	1	74		23.17	23.14	23.21
15	36	0		22.38	22.35	22.49
15	36	20		22.22	22.19	22.39
15	36	39		22.16	22.13	22.36
15	75	0		22.43	22.40	22.45
15	1	0	16-QAM	22.99	22.96	22.84
15	1	37		22.46	22.43	22.64
15	1	74		22.46	22.43	22.52
15	36	0		21.47	21.44	21.45
15	36	20		21.27	21.24	21.47
15	36	39		21.39	21.36	21.49
15	75	0		21.37	21.34	21.48
15	1	0	64QAM	21.70	21.67	21.71
15	1	37		21.31	21.28	21.17
15	1	74		21.65	21.62	20.98
15	36	0		20.36	20.33	20.44
15	36	20		20.23	20.20	20.28
15	36	39		20.22	20.19	20.28
15	75	0		20.20	20.17	20.32



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.05	23.20	23.27
10	1	25		23.04	23.10	23.26
10	1	49		23.21	23.08	23.04
10	25	0		22.19	22.16	22.21
10	25	12		22.20	22.23	22.25
10	25	25		22.21	22.14	22.15
10	50	0		22.18	22.19	22.17
10	1	0	16-QAM	22.77	22.65	22.17
10	1	25		22.28	22.22	22.75
10	1	49		22.46	22.29	22.54
10	25	0		21.16	21.35	21.27
10	25	12		21.30	21.26	21.42
10	25	25		21.34	21.16	21.30
10	50	0		21.31	21.25	21.36
10	1	0	64QAM	21.39	21.27	21.34
10	1	25		21.27	21.33	21.38
10	1	49		21.40	21.33	21.14
10	25	0		20.00	20.08	20.17
10	25	12		19.99	20.10	20.20
10	25	25		20.04	19.91	20.12
10	50	0		20.16	20.04	20.10
5	1	0	QPSK	23.03	23.08	23.27
5	1	12		23.18	23.13	23.22
5	1	24		23.18	23.16	23.11
5	12	0		22.14	22.11	22.29
5	12	7		22.24	22.22	22.30
5	12	13		22.19	22.20	22.31
5	25	0		22.15	22.16	22.25
5	1	0	16-QAM	22.39	22.09	22.81
5	1	12		22.60	22.67	22.47
5	1	24		22.21	22.46	22.09
5	12	0		21.29	21.33	21.29
5	12	7		21.34	21.17	21.22



5	12	13		21.30	21.25	21.21
5	25	0		21.32	21.12	21.24
5	1	0	64QAM	21.05	20.99	21.13
5	1	12		20.94	21.00	21.04
5	1	24		20.94	20.99	21.01
5	12	0		20.03	20.05	20.10
5	12	7		19.97	20.01	20.10
5	12	13		19.98	19.96	20.02
5	25	0		20.04	20.02	20.09



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.10	23.00	23.16
3	1	8		23.10	23.11	23.14
3	1	14		22.99	23.10	22.78
3	8	0		22.18	22.13	22.29
3	8	4		22.17	22.19	22.20
3	8	7		22.10	22.09	22.12
3	15	0		22.12	22.22	22.18
3	1	0	16-QAM	22.60	22.13	22.76
3	1	8		22.34	22.72	22.45
3	1	14		22.31	22.46	22.27
3	8	0		21.33	21.25	21.29
3	8	4		21.24	21.38	21.23
3	8	7		21.23	21.33	21.22
3	15	0		21.23	21.28	21.23
3	1	0	64QAM	21.22	21.14	21.22
3	1	8		21.17	21.09	21.07
3	1	14		21.13	21.17	21.03
3	8	0		20.19	19.99	20.22
3	8	4		20.01	20.04	20.08
3	8	7		20.01	20.01	20.07
3	15	0		19.99	20.07	20.10
1.4	1	0	QPSK	23.19	23.10	23.16
1.4	1	3		22.91	23.10	22.93
1.4	1	5		23.07	23.06	22.56
1.4	3	0		23.06	23.06	23.00
1.4	3	1		23.08	23.16	22.99
1.4	3	3		23.15	23.10	22.76
1.4	6	0		22.11	22.08	22.06
1.4	1	0	16-QAM	22.38	22.44	22.28
1.4	1	3		22.20	22.25	22.14
1.4	1	5		22.45	22.40	22.19
1.4	3	0		22.17	22.26	22.00
1.4	3	1		22.24	22.26	22.18



1.4	3	3		22.14	22.19	21.98
1.4	6	0		21.12	21.25	21.11
1.4	1	0	64QAM	21.26	21.38	20.96
1.4	1	3		21.32	21.04	20.83
1.4	1	5		21.22	20.98	20.62
1.4	3	0		21.16	20.88	21.06
1.4	3	1		21.12	20.86	20.79
1.4	3	3		21.09	20.83	20.49
1.4	6	0		19.91	19.96	19.78



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.22	23.48	23.43
20	1	49		23.07	23.36	23.28
20	1	99		23.03	23.14	23.13
20	50	0		22.22	22.43	22.36
20	50	24		22.13	22.27	22.18
20	50	50		22.04	22.20	22.11
20	100	0		22.15	22.31	22.24
20	1	0	16-QAM	22.47	22.61	22.71
20	1	49		22.34	22.49	22.47
20	1	99		22.65	22.37	22.59
20	50	0		21.27	21.49	21.46
20	50	24		21.22	21.34	21.23
20	50	50		21.14	21.35	21.19
20	100	0		21.18	21.32	21.36
20	1	0	64QAM	20.97	20.98	20.93
20	1	49		20.78	20.82	20.58
20	1	99		20.51	20.73	20.48
20	50	0		19.86	20.32	20.05
20	50	24		19.83	20.12	19.94
20	50	50		19.87	20.07	19.82
20	100	0		19.82	20.08	19.87
15	1	0	QPSK	23.14	23.31	23.34
15	1	37		22.93	23.23	23.13
15	1	74		23.04	23.20	23.09
15	36	0		22.06	22.39	22.22
15	36	20		22.10	22.34	22.15
15	36	39		22.05	22.23	22.10
15	75	0		22.07	22.26	22.11
15	1	0	16-QAM	22.75	22.69	22.36
15	1	37		22.11	22.22	22.30
15	1	74		22.07	22.37	22.35
15	36	0		21.14	21.49	21.32
15	36	20		21.17	21.36	21.28



15	36	39	64QAM	21.11	21.33	21.20
15	75	0		21.13	21.40	21.30
15	1	0		21.19	21.44	21.35
15	1	37		20.88	21.33	21.04
15	1	74		21.03	21.31	20.90
15	36	0		19.79	20.25	19.93
15	36	20		19.88	20.11	19.87
15	36	39		19.78	20.03	19.79
15	75	0		19.74	20.15	19.80



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.11	23.32	23.23
10	1	25		23.06	23.26	23.07
10	1	49		23.00	23.18	23.02
10	25	0		22.00	22.29	22.16
10	25	12		22.04	22.29	22.10
10	25	25		22.04	22.21	22.06
10	50	0		22.07	22.26	22.07
10	1	0	16-QAM	22.72	22.83	22.48
10	1	25		22.52	22.78	22.26
10	1	49		22.56	22.80	22.26
10	25	0		21.14	21.31	21.16
10	25	12		21.12	21.32	21.15
10	25	25		21.23	21.39	21.17
10	50	0		21.24	21.40	21.22
10	1	0	64QAM	20.82	21.37	21.22
10	1	25		20.61	21.39	21.08
10	1	49		21.01	21.25	21.01
10	25	0		19.68	20.12	19.80
10	25	12		19.65	19.98	19.75
10	25	25		19.66	19.96	19.61
10	50	0		19.78	20.10	19.78
5	1	0	QPSK	23.05	23.21	23.09
5	1	12		23.01	23.15	22.97
5	1	24		22.97	23.26	22.86
5	12	0		21.98	22.27	22.08
5	12	7		22.02	22.32	22.03
5	12	13		22.01	22.29	22.01
5	25	0		21.99	22.23	22.03
5	1	0	16-QAM	22.08	22.39	22.36
5	1	12		22.16	22.33	22.65
5	1	24		22.51	22.41	22.36
5	12	0		21.04	21.45	21.12
5	12	7		20.95	21.41	21.13



5	12	13	64QAM	21.09	21.26	21.09
5	25	0		21.06	21.24	21.13
5	1	0		20.98	21.26	21.26
5	1	12		20.93	21.10	21.10
5	1	24		20.85	21.20	21.20
5	12	0		19.73	20.09	20.09
5	12	7		19.74	20.09	20.09
5	12	13		19.70	20.00	20.00
5	25	0		19.69	20.09	20.09



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.96	23.24	23.09
3	1	8		22.89	23.16	23.02
3	1	14		22.95	23.13	22.97
3	8	0		21.98	22.20	21.95
3	8	4		22.01	22.23	21.99
3	8	7		21.96	22.19	22.09
3	15	0		21.94	22.18	22.07
3	1	0	16-QAM	22.50	22.34	22.62
3	1	8		22.26	22.84	22.46
3	1	14		22.17	22.72	22.19
3	8	0		21.14	21.34	21.11
3	8	4		21.09	21.37	21.19
3	8	7		21.04	21.41	21.20
3	15	0		21.17	21.32	21.07
3	1	0	64QAM	21.07	21.31	21.02
3	1	8		21.07	21.42	21.03
3	1	14		20.96	21.33	20.94
3	8	0		19.75	20.12	19.85
3	8	4		19.78	20.10	19.74
3	8	7		19.72	20.08	19.71
3	15	0		19.75	20.11	19.80
1.4	1	0	QPSK	22.87	23.15	22.89
1.4	1	3		23.05	23.20	23.07
1.4	1	5		22.81	23.16	22.93
1.4	3	0		22.97	23.20	23.03
1.4	3	1		22.94	23.41	22.90
1.4	3	3		22.89	23.16	22.95
1.4	6	0		21.88	22.19	22.04
1.4	1	0	16-QAM	22.07	22.49	22.21
1.4	1	3		22.20	22.47	22.31
1.4	1	5		22.47	22.48	22.08
1.4	3	0		22.06	22.31	22.08
1.4	3	1		22.13	22.22	22.12



1.4	3	3		21.89	22.32	22.15
1.4	6	0		21.15	21.22	21.07
1.4	1	0	64QAM	20.67	21.07	20.66
1.4	1	3		20.74	21.05	20.70
1.4	1	5		20.69	21.02	20.65
1.4	3	0		20.48	21.21	20.80
1.4	3	1		20.86	21.21	20.88
1.4	3	3		20.82	21.14	20.77
1.4	6	0		19.60	19.95	19.57



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.22	23.27	23.34
20	1	49		23.20	23.22	23.25
20	1	99		23.30	23.32	23.33
20	50	0		22.26	22.28	22.30
20	50	24		22.31	22.33	22.33
20	50	50		22.33	22.31	22.35
20	100	0		22.36	22.33	22.37
20	1	0	16-QAM	22.53	22.56	22.63
20	1	49		22.58	22.65	22.66
20	1	99		22.79	22.65	22.65
20	50	0		21.37	21.43	21.36
20	50	24		21.49	21.46	21.42
20	50	50		21.45	21.37	21.39
20	100	0		21.47	21.41	21.41
20	1	0	64-QAM	21.88	21.80	21.82
20	1	49		21.85	21.78	21.80
20	1	99		21.79	21.70	21.75
20	50	0		20.82	20.74	20.77
20	50	24		20.71	20.64	20.67
20	50	50		20.65	20.55	20.59
20	100	0		20.69	20.60	20.65
15	1	0	QPSK	23.17	23.16	23.25
15	1	37		23.23	23.27	23.26
15	1	74		23.18	23.28	23.27
15	36	0		22.27	22.27	22.29
15	36	20		22.27	22.32	22.27
15	36	39		22.25	22.28	22.23
15	75	0		22.25	22.27	22.27
15	1	0	16-QAM	22.55	22.50	22.58
15	1	37		22.53	22.63	22.55
15	1	74		22.60	22.55	22.60
15	36	0		21.35	21.36	21.37
15	36	20		21.39	21.40	21.38
15	36	39		21.35	21.39	21.34



15	75	0	64-QAM	21.34	21.38	21.35
15	1	0		21.92	21.94	21.95
15	1	37		21.82	21.79	21.82
15	1	74		21.80	21.76	21.81
15	36	0		20.65	20.62	20.65
15	36	20		20.72	20.68	20.71
15	36	39		20.58	20.50	20.55
15	75	0		20.65	20.60	20.62



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.10	23.09	23.23
10	1	25		23.19	23.18	23.17
10	1	49		23.20	23.21	23.20
10	25	0		22.23	22.19	22.24
10	25	12		22.25	22.21	22.23
10	25	25		22.21	22.19	22.21
10	50	0		22.24	22.22	22.21
10	1	0	16-QAM	22.52	22.38	22.61
10	1	25		22.57	22.49	22.49
10	1	49		22.62	22.46	22.56
10	25	0		21.34	21.33	21.29
10	25	12		21.32	21.28	21.32
10	25	25		21.27	21.28	21.30
10	50	0		21.32	21.32	21.33
10	1	0	64-QAM	21.82	21.81	21.82
10	1	25		21.75	21.72	21.75
10	1	49		21.85	21.82	21.83
10	25	0		20.58	20.57	20.58
10	25	12		20.59	20.58	20.54
10	25	25		20.55	20.54	20.51
10	50	0		20.59	20.58	20.62
5	1	0	QPSK	23.11	23.18	23.20
5	1	12		23.19	23.15	23.16
5	1	24		23.22	23.14	23.15
5	12	0		22.12	22.17	22.19
5	12	7		22.24	22.17	22.16
5	12	13		22.24	22.20	22.20
5	25	0		22.23	22.16	22.15
5	1	0	16-QAM	22.45	22.53	22.48
5	1	12		22.55	22.53	22.52
5	1	24		22.55	22.52	22.42
5	12	0		21.24	21.26	21.27
5	12	7		21.35	21.29	21.24



5	12	13		21.30	21.26	21.31
5	25	0		21.29	21.24	21.26
5	1	0	64-QAM	21.70	21.73	21.82
5	1	12		21.68	21.72	21.75
5	1	24		21.75	21.81	21.77
5	12	0		20.58	20.62	20.58
5	12	7		20.66	20.65	20.61
5	12	13		20.55	20.52	20.59
5	25	0		20.58	20.53	20.54



LTE CA

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	0	0	1	99	1	22.87
			1	0	0	0	1	22.76
			100	0	0	0	100	22.01
			100	0	100	0	200	21.03
			1	0	1	99	2	13.82
			1	0	1	0	2	17.88
			1	99	1	0	2	22.9
			100	0	1	99	101	19.48
		16QAM	0	0	1	99	1	22.24
			1	0	0	0	1	22.31
			100	0	0	0	100	21.06
			100	0	100	0	200	20.03
			1	0	1	99	2	14.33
			1	0	1	0	2	18.3
			1	99	1	0	2	22.29
			100	0	1	99	101	19.85
		64QAM	0	0	1	99	1	21.21
			1	0	0	0	1	21.19
			100	0	0	0	100	20.08
			100	0	100	0	200	20.07
			1	0	1	99	2	14.31
			1	0	1	0	2	18.61
			1	99	1	0	2	20.01
			100	0	1	99	101	19.57



21001	21199	QPSK	0	0	1	99	1	22.76
			1	0	0	0	1	22.91
			100	0	0	0	100	22.16
			100	0	100	0	200	21.1
			1	0	1	99	2	13.92
			1	0	1	0	2	17.98
			1	99	1	0	2	22.92
			100	0	1	99	101	19.64
		16QAM	0	0	1	99	1	22.34
			1	23	0	0	1	22.47
			100	0	0	0	100	21.29
			100	0	100	0	200	20.22
			1	0	1	99	2	14.37
			1	0	1	0	2	18.52
			1	99	1	0	2	22.38
			100	0	1	99	101	19.67
		64QAM	0	0	1	99	1	21.32
			1	0	0	0	1	21.21
			100	0	0	0	100	20.22
			100	0	100	0	200	20.24
			1	0	1	99	2	14.36
			1	0	1	0	2	18.93
			1	99	1	0	2	20.13
			100	0	1	99	101	19.7



21152	21350	QPSK	0	0	1	99	1	22.9
			1	0	0	0	1	22.92
			100	0	0	0	100	22.24
			100	0	100	0	200	21.2
			1	0	1	99	2	13.99
			1	0	1	0	2	17.98
			1	99	1	0	2	22.93
			100	0	1	99	101	19.68
		16QAM	0	0	1	99	1	22.41
			1	0	0	0	1	22.35
			100	0	0	0	100	21.24
			100	0	100	0	200	20.42
			1	0	1	99	2	14.32
			1	0	1	0	2	18.87
			1	99	1	0	2	22.46
			100	0	1	99	101	19.79
		64QAM	0	0	1	99	1	21.24
			1	0	0	0	1	21.3
			100	0	0	0	100	20.26
			100	0	100	0	200	20.25
			1	0	1	99	2	14.43
			1	0	1	0	2	18.85
			1	99	1	0	2	20.19
			100	0	1	99	101	19.79



CA_7C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21021	QPSK	1	99	1	0	2	22.89
		16QAM	1	99	1	0	2	22.04
		64QAM	1	99	1	0	2	20.05
21026	21197	QPSK	1	99	1	0	2	22.86
		16QAM	1	99	1	0	2	22.03
		64QAM	1	99	1	0	2	20.11
21201	21372	QPSK	1	99	1	0	2	22.92
		16QAM	1	99	1	0	2	22.08
		64QAM	1	99	1	0	2	20.2
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20828	20999	QPSK	1	74	1	0	2	23.16
		16QAM	1	74	1	0	2	22.39
		64QAM	1	74	1	0	2	20.36
21003	21174	QPSK	1	74	1	0	2	23.08
		16QAM	1	74	1	0	2	22.45
		64QAM	1	74	1	0	2	20.32
21179	21350	QPSK	1	74	1	0	2	23.09
		16QAM	1	74	1	0	2	22.18
		64QAM	1	74	1	0	2	20.28



Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	1	99	1	0	2	22.95
		16QAM	1	99	1	0	2	22
		64QAM	1	99	1	0	2	20.09
21051	21195	QPSK	1	99	1	0	2	22.91
		16QAM	1	99	1	0	2	22.33
		64QAM	1	99	1	0	2	20.21
21251	21395	QPSK	1	99	1	0	1	22.99
		16QAM	1	99	1	0	2	22.22
		64QAM	1	99	1	0	2	20.33
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20805	20949	QPSK	1	49	1	0	2	23.11
		16QAM	1	49	1	0	2	22.38
		64QAM	1	49	1	0	2	20.28
21006	21150	QPSK	1	49	1	0	2	23.16
		16QAM	1	49	1	0	2	22.36
		64QAM	1	49	1	0	2	20.2
21206	21350	QPSK	1	49	1	0	2	23.05
		16QAM	1	49	1	0	2	22.44
		64QAM	1	49	1	0	2	20.39



Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	1	74	1	0	1	23
		16QAM	1	74	1	0	1	22.2
		64QAM	1	74	1	0	1	20.19
21025	21175	QPSK	1	74	1	0	1	23.06
		16QAM	1	74	1	0	1	22.44
		64QAM	1	74	1	0	1	20.21
21225	21375	QPSK	1	74	1	0	1	22.95
		16QAM	1	74	1	0	1	22.29
		64QAM	1	74	1	0	1	20.08
Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20945	QPSK	1	74	1	0	1	23.08
		16QAM	1	74	1	0	1	22.38
		64QAM	1	74	1	0	1	19.91
21051	21171	QPSK	1	74	1	0	1	23.05
		16QAM	1	74	1	0	1	22.29
		64QAM	1	74	1	0	1	19.95
21277	21397	QPSK	1	74	1	0	1	23.01
		16QAM	1	74	1	0	1	22.32
		64QAM	1	74	1	0	1	19.98



CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	0	0	1	99	1	23.11
			1	0	0	0	1	23.15
			100	0	0	0	100	22.18
			100	0	100	0	200	21.24
			1	0	1	99	2	14.61
			1	0	1	0	2	18.73
			1	99	1	0	2	23.28
			100	0	1	99	101	19.59
		16QAM	0	0	1	99	1	22.58
			1	0	0	0	1	22.61
			100	0	0	0	100	21.29
			100	0	100	0	200	20.32
			1	0	1	99	2	15.12
			1	0	1	0	2	19.13
			1	99	1	0	2	22.63
			100	0	1	99	101	19.75
		64QAM	0	0	1	99	1	21.34
			1	0	0	0	1	21.13
			100	0	0	0	100	20.32
			100	0	100	0	200	20.33
			1	0	1	99	2	14.71
			1	0	1	0	2	18.7
			1	99	1	0	2	20.44
			100	0	1	99	101	19.78



40521	40719	QPSK	0	0	1	99	1	23.17
			1	0	0	0	1	23.29
			100	0	0	0	100	22.48
			100	0	100	0	200	21.47
			1	0	1	99	2	14.88
			1	0	1	0	2	18.85
			1	99	1	0	2	23.3
			100	0	1	99	101	19.81
		16QAM	0	0	1	99	1	22.54
			1	0	0	0	1	22.24
			100	0	0	0	100	21.59
			100	0	100	0	200	20.59
			1	0	1	99	2	15.15
			1	0	1	0	2	19.22
			1	99	1	0	2	22.67
			100	0	1	99	101	20.08
		64QAM	0	0	1	99	1	21.47
			1	0	0	0	1	21.38
			100	0	0	0	100	20.61
			100	0	100	0	200	20.6
			1	0	1	99	2	14.94
			1	0	1	0	2	19.03
			1	99	1	0	2	20.41
			100	0	1	99	101	19.84



41292	41490	QPSK	0	0	1	99	1	22.9
			1	0	0	0	1	22.71
			100	0	0	0	100	21.96
			100	0	100	0	200	21.38
			1	0	1	99	2	14.81
			1	0	1	0	2	18.94
			1	99	1	0	2	23.19
			100	0	1	99	101	18.78
		16QAM	0	0	1	99	1	22.25
			1	0	0	0	1	22.25
			100	0	0	0	100	21.23
			100	0	100	0	200	20.49
			1	0	1	99	2	15.15
			1	0	1	0	2	19.11
			1	99	1	0	2	22.7
			100	0	1	99	101	19.03
		64QAM	0	0	1	99	1	21.21
			1	0	0	0	1	21
			100	0	0	0	100	20.23
			100	0	100	0	200	19.56
			1	0	1	99	2	14.96
			1	0	1	0	2	18.97
			1	99	1	0	2	20.54
			100	0	1	99	101	18.37



CA_41C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39921	QPSK	1	99	1	0	1	23.41
		16QAM	1	99	1	0	1	22.67
		64QAM	1	99	1	0	1	20.36
40546	40717	QPSK	1	99	1	0	2	23.37
		16QAM	1	99	1	0	1	22.65
		64QAM	1	99	1	0	1	20.35
41341	41512	QPSK	1	99	1	0	2	23.22
		16QAM	1	99	1	0	1	22.65
		64QAM	1	99	1	0	1	20.31
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39728	39899	QPSK	1	74	1	0	2	23.38
		16QAM	1	74	1	0	2	22.52
		64QAM	1	74	1	0	2	20.44
40523	40694	QPSK	1	74	1	0	2	23.29
		16QAM	1	74	1	0	2	22.66
		64QAM	1	74	1	0	2	20.34
41319	41490	QPSK	1	74	1	0	2	23.36
		16QAM	1	74	1	0	2	22.73
		64QAM	1	74	1	0	2	20.44



Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39750	39894	QPSK	1	99	1	0	2	23.32
		16QAM	1	99	1	0	2	22.71
		64QAM	1	99	1	0	2	20.64
40571	40715	QPSK	1	99	1	0	1	23.37
		16QAM	1	99	1	0	2	22.71
		64QAM	1	99	1	0	2	20.63
41391	41535	QPSK	1	99	1	0	2	23.29
		16QAM	1	99	1	0	2	22.62
		64QAM	1	99	1	0	2	20.51
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39705	39849	QPSK	1	49	1	D	2	23.23
		16QAM	1	49	1	0	2	22.49
		64QAM	1	49	1	0	2	20.34
40526	40670	QPSK	1	49	1	0	2	23.2
		16QAM	1	49	1	0	2	22.33
		64QAM	1	49	1	0	2	20.19
41346	41490	QPSK	1	49	1	0	2	23.34
		16QAM	1	49	1	0	2	22.63
		64QAM	1	49	1	0	2	20.5



Combination 20MHz+5MHz (100RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39750	39867	QPSK	1	99	1	0	2	23.31
		16QAM	1	99	1	0	2	22.7
		64QAM	1	99	1	0	2	20.5
40595	40712	QPSK	1	99	1	0	2	23.33
		16QAM	1	99	1	0	2	22.68
		64QAM	1	99	1	0	2	20.52
41440	41557	QPSK	1	99	1	0	2	23.3
		16QAM	1	99	1	0	2	22.61
		64QAM	1	99	1	0	2	20.48
Combination 5MHz+20MHz (25RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39683	39800	QPSK	1	24	1	0	2	23.25
		16QAM	1	24	1	0	2	22.31
		64QAM	1	24	1	0	2	20.3
40528	40645	QPSK	1	24	1	0	2	23.2
		16QAM	1	24	1	0	2	22.25
		64QAM	1	24	1	0	2	20.21
41373	41490	QPSK	1	24	1	0	2	23.31
		16QAM	1	24	1	0	2	22.43
		64QAM	1	24	1	0	2	20.4



Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39725	39875	QPSK	1	74	1	0	2	23.41
		16QAM	1	74	1	0	2	22.71
		64QAM	1	74	1	0	2	20.52
40545	40695	QPSK	1	74	1	0	2	23.43
		16QAM	1	74	1	0	2	22.31
		64QAM	1	74	1	0	2	20.45
41365	41515	QPSK	1	74	1	0	2	23.48
		16QAM	1	74	1	0	2	22.42
		64QAM	1	74	1	0	2	20.36
Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39725	39845	QPSK	1	74	1	0	2	23.36
		16QAM	1	74	1	0	2	22.65
		64QAM	1	74	1	0	2	20.48
40620	40740	QPSK	1	74	1	0	2	22.99
		16QAM	1	74	1	0	2	21.89
		64QAM	1	74	1	0	2	19.85
41169	41289	QPSK	1	74	1	0	2	22.91
		16QAM	1	74	1	0	2	21.88
		64QAM	1	74	1	0	2	20.02



Combination 10MHz+15MHz (50RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39700	39820	QPSK	1	49	1	0	2	23.07
		16QAM	1	49	1	0	2	22.34
		64QAM	1	49	1	0	2	20.25
40620	40740	QPSK	1	49	1	0	2	22.97
		16QAM	1	49	1	0	2	21.82
		64QAM	1	49	1	0	2	20.02
41346	41466	QPSK	1	49	1	0	2	23.22
		16QAM	1	49	1	0	2	22.44
		64QAM	1	49	1	0	2	20.56

ERP/EIRP
<Top Antenna>

LTE Band 2 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.35	22.22	22.29	22.38	22.25	22.33	22.39	22.32	22.43
Conducted Power (Watts)	0.1718	0.1667	0.1694	0.1730	0.1679	0.1710	0.1734	0.1706	0.1750
EIRP(dBm)	21.35	21.22	21.29	21.38	21.25	21.33	21.39	21.32	21.43
EIRP(Watts)	0.1365	0.1324	0.1346	0.1374	0.1334	0.1358	0.1377	0.1355	0.1390

LTE Band 2 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.43	22.37	22.52	22.51	22.41	22.59	22.49	22.43	22.65
Conducted Power (Watts)	0.1750	0.1726	0.1786	0.1782	0.1742	0.1816	0.1774	0.1750	0.1841
EIRP(dBm)	21.43	21.37	21.52	21.51	21.41	21.59	21.49	21.43	21.65
EIRP(Watts)	0.1390	0.1371	0.1419	0.1416	0.1384	0.1442	0.1409	0.1390	0.1462



LTE Band 2 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.72	21.59	21.68	21.68	21.60	21.65	21.72	21.62	21.73
Conducted Power (Watts)	0.1486	0.1442	0.1472	0.1472	0.1445	0.1462	0.1486	0.1452	0.1489
EIRP(dBm)	20.72	20.59	20.68	20.68	20.60	20.65	20.72	20.62	20.73
EIRP(Watts)	0.1180	0.1146	0.1169	0.1169	0.1148	0.1161	0.1180	0.1153	0.1183

LTE Band 2 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.76	21.69	21.82	21.83	21.75	21.88	21.81	21.72	21.98
Conducted Power (Watts)	0.1500	0.1476	0.1521	0.1524	0.1496	0.1542	0.1517	0.1486	0.1578
EIRP(dBm)	20.76	20.69	20.82	20.83	20.75	20.88	20.81	20.72	20.98
EIRP(Watts)	0.1191	0.1172	0.1208	0.1211	0.1189	0.1225	0.1205	0.1180	0.1253



LTE Band 2 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	20.59	20.46	20.56	20.65	20.52	20.64	21.64	21.58	21.67
Conducted Power (Watts)	0.1146	0.1112	0.1138	0.1161	0.1127	0.1159	0.1459	0.1439	0.1469
EIRP(dBm)	19.59	19.46	19.56	19.65	19.52	19.64	20.64	20.58	20.67
EIRP(Watts)	0.0910	0.0883	0.0904	0.0923	0.0895	0.0920	0.1159	0.1143	0.1167

LTE Band 2 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.69	21.63	21.77	21.79	21.69	21.70	21.76	21.66	21.80
Conducted Power (Watts)	0.1476	0.1455	0.1503	0.1510	0.1476	0.1479	0.1500	0.1466	0.1514
EIRP(dBm)	20.69	20.63	20.77	20.79	20.69	20.70	20.76	20.66	20.80
EIRP(Watts)	0.1172	0.1156	0.1194	0.1199	0.1172	0.1175	0.1191	0.1164	0.1202



LTE Band 4 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.34	22.52	22.49	22.38	22.53	22.56	22.41	22.58	22.61
Conducted Power (Watts)	0.1714	0.1786	0.1774	0.1730	0.1791	0.1803	0.1742	0.1811	0.1824
EIRP(dBm)	21.34	21.52	21.49	21.38	21.53	21.56	21.41	21.58	21.61
EIRP(Watts)	0.1361	0.1419	0.1409	0.1374	0.1422	0.1432	0.1384	0.1439	0.1449

LTE Band 4 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.46	22.58	22.65	22.52	22.69	22.75	22.57	22.63	22.77
Conducted Power (Watts)	0.1762	0.1811	0.1841	0.1786	0.1858	0.1884	0.1807	0.1832	0.1892
EIRP(dBm)	21.46	21.58	21.65	21.52	21.69	21.75	21.57	21.63	21.77
EIRP(Watts)	0.1400	0.1439	0.1462	0.1419	0.1476	0.1496	0.1435	0.1455	0.1503



LTE Band 4 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.68	21.88	21.81	21.66	21.87	21.86	21.73	21.90	21.95
Conducted Power (Watts)	0.1472	0.1542	0.1517	0.1466	0.1538	0.1535	0.1489	0.1549	0.1567
EIRP(dBm)	20.68	20.88	20.81	20.66	20.87	20.86	20.73	20.90	20.95
EIRP(Watts)	0.1169	0.1225	0.1205	0.1164	0.1222	0.1219	0.1183	0.1230	0.1245

LTE Band 4 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.75	21.90	21.94	21.87	21.91	21.93	21.87	21.95	21.97
Conducted Power (Watts)	0.1496	0.1549	0.1563	0.1538	0.1552	0.1560	0.1538	0.1567	0.1574
EIRP(dBm)	20.75	20.90	20.94	20.87	20.91	20.93	20.87	20.95	20.97
EIRP(Watts)	0.1189	0.1230	0.1242	0.1222	0.1233	0.1239	0.1222	0.1245	0.1250



LTE Band 4 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	20.65	20.82	20.78	20.66	20.82	20.82	20.73	20.91	20.90
Conducted Power (Watts)	0.1161	0.1208	0.1197	0.1164	0.1208	0.1208	0.1183	0.1233	0.1230
EIRP(dBm)	19.65	19.82	19.78	19.66	19.82	19.82	19.73	19.91	19.90
EIRP(Watts)	0.0923	0.0959	0.0951	0.0925	0.0959	0.0959	0.0940	0.0979	0.0977

LTE Band 4 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	20.76	20.82	20.86	20.85	20.97	21.04	20.83	20.91	21.03
Conducted Power (Watts)	0.1191	0.1208	0.1219	0.1216	0.1250	0.1271	0.1211	0.1233	0.1268
EIRP(dBm)	19.76	19.82	19.86	19.85	19.97	20.04	19.83	19.91	20.03
EIRP(Watts)	0.0946	0.0959	0.0968	0.0966	0.0993	0.1009	0.0962	0.0979	0.1007

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.75	22.80	22.91	22.71	22.81	22.92	22.75	22.87	22.98
Conducted Power (Watts)	0.1884	0.1905	0.1954	0.1866	0.1910	0.1959	0.1884	0.1936	0.1986
ERP(dBm)	18.60	18.65	18.76	18.56	18.66	18.77	18.60	18.72	18.83
ERP(Watts)	0.0724	0.0733	0.0752	0.0718	0.0735	0.0753	0.0724	0.0745	0.0764

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.84	22.89	23.00
Conducted Power (Watts)	0.1923	0.1945	0.1995
ERP(dBm)	18.69	18.74	18.85
ERP(Watts)	0.0740	0.0748	0.0767

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.06	22.14	22.20	22.05	22.15	22.30	22.08	22.20	22.34
Conducted Power (Watts)	0.1607	0.1637	0.1660	0.1603	0.1641	0.1698	0.1614	0.1660	0.1714
ERP(dBm)	17.91	17.99	18.05	17.90	18.00	18.15	17.93	18.05	18.19
ERP(Watts)	0.0618	0.0630	0.0638	0.0617	0.0631	0.0653	0.0621	0.0638	0.0659

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.14	22.18	22.33
Conducted Power (Watts)	0.1637	0.1652	0.1710
ERP(dBm)	17.99	18.03	18.18
ERP(Watts)	0.0630	0.0635	0.0658



LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.01	21.02	21.11	20.94	21.05	21.15	21.01	21.11	21.23
Conducted Power (Watts)	0.1262	0.1265	0.1291	0.1242	0.1274	0.1303	0.1262	0.1291	0.1327
ERP(dBm)	16.86	16.87	16.96	16.79	16.90	17.00	16.86	16.96	17.08
ERP(Watts)	0.0485	0.0486	0.0497	0.0478	0.0490	0.0501	0.0485	0.0497	0.0511

LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.05	21.07	21.19
Conducted Power (Watts)	0.1274	0.1279	0.1315
ERP(dBm)	16.90	16.92	17.04
ERP(Watts)	0.0490	0.0492	0.0506



LTE Band 7 ($G_T - L_C = -1.0$ dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.43	22.85	22.96
Conducted Power (Watts)	0.1750	0.1928	0.1977
EIRP(dBm)	21.43	21.85	21.96
EIRP(Watts)	0.1390	0.1531	0.1570

LTE Band 7 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.54	22.79	22.97	22.54	22.85	22.97	22.78	22.95	22.98
Conducted Power (Watts)	0.1795	0.1901	0.1982	0.1795	0.1928	0.1982	0.1897	0.1972	0.1986
EIRP(dBm)	21.54	21.79	21.97	21.54	21.85	21.97	21.78	21.95	21.98
EIRP(Watts)	0.1426	0.1510	0.1574	0.1426	0.1531	0.1574	0.1507	0.1567	0.1578



LTE Band 7 ($G_T - L_C = -1.0$ dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.78	22.10	22.29
Conducted Power (Watts)	0.1507	0.1622	0.1694
EIRP(dBm)	20.78	21.10	21.29
EIRP(Watts)	0.1197	0.1288	0.1346

LTE Band 7 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	21.81	22.08	22.31	21.90	22.19	22.32	21.95	22.34	22.33
Conducted Power (Watts)	0.1517	0.1614	0.1702	0.1549	0.1656	0.1706	0.1567	0.1714	0.1710
EIRP(dBm)	20.81	21.08	21.31	20.90	21.19	21.32	20.95	21.34	21.33
EIRP(Watts)	0.1205	0.1282	0.1352	0.1230	0.1315	0.1355	0.1245	0.1361	0.1358



LTE Band 7 ($G_T - L_C = -1.0$ dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	20.75	20.98	21.13
Conducted Power (Watts)	0.1189	0.1253	0.1297
EIRP(dBm)	19.75	19.98	20.13
EIRP(Watts)	0.0944	0.0995	0.1030

LTE Band 7 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	20.79	20.99	21.13	20.85	20.98	21.14	20.90	21.09	21.22
Conducted Power (Watts)	0.1199	0.1256	0.1297	0.1216	0.1253	0.1300	0.1230	0.1285	0.1324
EIRP(dBm)	19.79	19.99	20.13	19.85	19.98	20.14	19.90	20.09	20.22
EIRP(Watts)	0.0953	0.0998	0.1030	0.0966	0.0995	0.1033	0.0977	0.1021	0.1052

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.00	23.06	22.95	23.11	23.16	23.05	22.95	22.91	22.99
Conducted Power (Watts)	0.1995	0.2023	0.1972	0.2046	0.2070	0.2018	0.1972	0.1954	0.1991
EIRP(dBm)	22.00	22.06	21.95	22.11	22.16	22.05	21.95	21.91	21.99
EIRP(Watts)	0.1585	0.1607	0.1567	0.1626	0.1644	0.1603	0.1567	0.1552	0.1581

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.16	23.08	23.09	22.89	22.86	22.92	22.90	22.92	22.93
Conducted Power (Watts)	0.2070	0.2032	0.2037	0.1945	0.1932	0.1959	0.1950	0.1959	0.1963
EIRP(dBm)	22.16	22.08	22.09	21.89	21.86	21.92	21.90	21.92	21.93
EIRP(Watts)	0.1644	0.1614	0.1618	0.1545	0.1535	0.1556	0.1549	0.1556	0.1560



LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.20	22.44	22.29	22.38	22.36	22.44	22.00	22.33	22.22
Conducted Power (Watts)	0.1660	0.1754	0.1694	0.1730	0.1722	0.1754	0.1585	0.1710	0.1667
EIRP(dBm)	21.20	21.44	21.29	21.38	21.36	21.44	21.00	21.33	21.22
EIRP(Watts)	0.1318	0.1393	0.1346	0.1374	0.1368	0.1393	0.1259	0.1358	0.1324

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.39	22.45	22.18	22.04	22.03	22.08	22.31	22.47	22.46
Conducted Power (Watts)	0.1734	0.1758	0.1652	0.1600	0.1596	0.1614	0.1702	0.1766	0.1762
EIRP(dBm)	21.39	21.45	21.18	21.04	21.03	21.08	21.31	21.47	21.46
EIRP(Watts)	0.1377	0.1396	0.1312	0.1271	0.1268	0.1282	0.1352	0.1403	0.1400



LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.19	20.21	20.08	20.28	20.20	20.39	20.09	20.21	20.33
Conducted Power (Watts)	0.1045	0.1050	0.1019	0.1067	0.1047	0.1094	0.1021	0.1050	0.1079
EIRP(dBm)	19.19	19.21	19.08	19.28	19.20	19.39	19.09	19.21	19.33
EIRP(Watts)	0.0830	0.0834	0.0809	0.0847	0.0832	0.0869	0.0811	0.0834	0.0857

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.36	20.32	20.28	20.05	20.11	20.20	21.21	21.32	21.30
Conducted Power (Watts)	0.1086	0.1076	0.1067	0.1012	0.1026	0.1047	0.1321	0.1355	0.1349
EIRP(dBm)	19.36	19.32	19.28	19.05	19.11	19.20	20.21	20.32	20.30
EIRP(Watts)	0.0863	0.0855	0.0847	0.0804	0.0815	0.0832	0.1050	0.1076	0.1072



LTE Band 7 CA ($G_T - L_C = -1.0$ dB) QPSK			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.08	23.05	23.01
Conducted Power (Watts)	0.2032	0.2018	0.2000
EIRP(dBm)	22.08	22.05	22.01
EIRP(Watts)	0.1614	0.1603	0.1589

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 16QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.38	22.29	22.32
Conducted Power (Watts)	0.1730	0.1694	0.1706
EIRP(dBm)	21.38	21.29	21.32
EIRP(Watts)	0.1374	0.1346	0.1355

LTE Band 7 CA ($G_T - L_C = -1.0$ dB) 64QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.91	19.95	19.98
Conducted Power (Watts)	0.0979	0.0989	0.0995
EIRP(dBm)	18.91	18.95	18.98
EIRP(Watts)	0.0778	0.0785	0.0791



LTE Band 12 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.87	22.94	22.86	22.90	22.94	22.88	22.99	22.94	22.92
Conducted Power (Watts)	0.1936	0.1968	0.1932	0.1950	0.1968	0.1941	0.1991	0.1968	0.1959
ERP(dBm)	18.72	18.79	18.71	18.75	18.79	18.73	18.84	18.79	18.77
ERP(Watts)	0.0745	0.0757	0.0743	0.0750	0.0757	0.0746	0.0766	0.0757	0.0753

LTE Band 12 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.01	22.98	22.99
Conducted Power (Watts)	0.2000	0.1986	0.1991
ERP(dBm)	18.86	18.83	18.84
ERP(Watts)	0.0769	0.0764	0.0766



LTE Band 12 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.24	22.24	22.20	22.19	22.27	22.17	22.33	22.29	22.26
Conducted Power (Watts)	0.1675	0.1675	0.1660	0.1656	0.1687	0.1648	0.1710	0.1694	0.1683
ERP(dBm)	18.09	18.09	18.05	18.04	18.12	18.02	18.18	18.14	18.11
ERP(Watts)	0.0644	0.0644	0.0638	0.0637	0.0649	0.0634	0.0658	0.0652	0.0647

LTE Band 12 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.42	22.34	22.30
Conducted Power (Watts)	0.1746	0.1714	0.1698
ERP(dBm)	18.27	18.19	18.15
ERP(Watts)	0.0671	0.0659	0.0653



LTE Band 12 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.13	21.15	21.11	21.15	21.18	21.14	21.19	21.23	21.18
Conducted Power (Watts)	0.1297	0.1303	0.1291	0.1303	0.1312	0.1300	0.1315	0.1327	0.1312
ERP(dBm)	16.98	17.00	16.96	17.00	17.03	16.99	17.04	17.08	17.03
ERP(Watts)	0.0499	0.0501	0.0497	0.0501	0.0505	0.0500	0.0506	0.0511	0.0505

LTE Band 12 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.31	21.23	21.21
Conducted Power (Watts)	0.1352	0.1327	0.1321
ERP(dBm)	17.16	17.08	17.06
ERP(Watts)	0.0520	0.0511	0.0508



LTE Band 17 ($G_T - L_C = -2.0$ dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.87	22.83	22.86	22.81	22.85	22.88
Conducted Power (Watts)	0.1936	0.1919	0.1932	0.1910	0.1928	0.1941
ERP(dBm)	18.72	18.68	18.71	18.66	18.70	18.73
ERP(Watts)	0.0745	0.0738	0.0743	0.0735	0.0741	0.0746

LTE Band 17 ($G_T - L_C = -2.0$ dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.15	22.21	22.27	22.24	22.24	22.24
Conducted Power (Watts)	0.1641	0.1663	0.1687	0.1675	0.1675	0.1675
ERP(dBm)	18.00	18.06	18.12	18.09	18.09	18.09
ERP(Watts)	0.0631	0.0640	0.0649	0.0644	0.0644	0.0644



LTE Band 17 ($G_T - L_C = -2.0$ dB) 64QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	21.08	21.09	21.18	21.35	21.14	21.12
Conducted Power (Watts)	0.1282	0.1285	0.1312	0.1365	0.1300	0.1294
ERP(dBm)	16.93	16.94	17.03	17.20	16.99	16.97
ERP(Watts)	0.0493	0.0494	0.0505	0.0525	0.0500	0.0498



LTE Band 25 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.22	22.21	22.38	22.20	22.20	22.41	22.23	22.21	22.46
Conducted Power (Watts)	0.1667	0.1663	0.1730	0.1660	0.1660	0.1742	0.1671	0.1663	0.1762
EIRP(dBm)	21.22	21.21	21.38	21.20	21.20	21.41	21.23	21.21	21.46
EIRP(Watts)	0.1324	0.1321	0.1374	0.1318	0.1318	0.1384	0.1327	0.1321	0.1400

LTE Band 25 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.25	22.23	22.49	22.36	22.38	22.63	22.35	22.40	22.64
Conducted Power (Watts)	0.1679	0.1671	0.1774	0.1722	0.1730	0.1832	0.1718	0.1738	0.1837
EIRP(dBm)	21.25	21.23	21.49	21.36	21.38	21.63	21.35	21.40	21.64
EIRP(Watts)	0.1334	0.1327	0.1409	0.1368	0.1374	0.1455	0.1365	0.1380	0.1459



LTE Band 25 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	21.56	21.54	21.69	21.57	21.59	21.74	21.57	21.53	21.81
Conducted Power (Watts)	0.1432	0.1426	0.1476	0.1435	0.1442	0.1493	0.1435	0.1422	0.1517
EIRP(dBm)	20.56	20.54	20.69	20.57	20.59	20.74	20.57	20.53	20.81
EIRP(Watts)	0.1138	0.1132	0.1172	0.1140	0.1146	0.1186	0.1140	0.1130	0.1205

LTE Band 25 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	21.60	21.55	21.83	21.68	21.70	22.00	21.74	21.72	21.98
Conducted Power (Watts)	0.1445	0.1429	0.1524	0.1472	0.1479	0.1585	0.1493	0.1486	0.1578
EIRP(dBm)	20.60	20.55	20.83	20.68	20.70	21.00	20.74	20.72	20.98
EIRP(Watts)	0.1148	0.1135	0.1211	0.1169	0.1175	0.1259	0.1186	0.1180	0.1253



LTE Band 25 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	20.49	20.42	20.63	20.45	20.49	20.70	20.53	20.44	20.76
Conducted Power (Watts)	0.1119	0.1102	0.1156	0.1109	0.1119	0.1175	0.1130	0.1107	0.1191
EIRP(dBm)	19.49	19.42	19.63	19.45	19.49	19.70	19.53	19.44	19.76
EIRP(Watts)	0.0889	0.0875	0.0918	0.0881	0.0889	0.0933	0.0897	0.0879	0.0946

LTE Band 25 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	20.54	20.51	20.72	20.67	20.62	20.89	20.64	20.57	20.82
Conducted Power (Watts)	0.1132	0.1125	0.1180	0.1167	0.1153	0.1227	0.1159	0.1140	0.1208
EIRP(dBm)	19.54	19.51	19.72	19.67	19.62	19.89	19.64	19.57	19.82
EIRP(Watts)	0.0899	0.0893	0.0938	0.0927	0.0916	0.0975	0.0920	0.0906	0.0959



LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.68	22.71	22.40	22.65	22.60	22.72	22.70	22.63	22.74
Conducted Power (Watts)	0.1854	0.1866	0.1738	0.1841	0.1820	0.1871	0.1862	0.1832	0.1879
ERP(dBm)	18.53	18.56	18.25	18.50	18.45	18.57	18.55	18.48	18.59
ERP(Watts)	0.0713	0.0718	0.0668	0.0708	0.0700	0.0719	0.0716	0.0705	0.0723

LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.78	22.73	22.77	23.27	23.24	23.33	23.26
Conducted Power (Watts)	0.1897	0.1875	0.1892	0.2123	0.2109	0.2153	0.2118
ERP(dBm)	18.63	18.58	18.62	19.12	19.09	19.18	19.11
ERP(Watts)	0.0729	0.0721	0.0728	0.0817	0.0811	0.0828	0.0815



LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.01	22.02	21.66	21.99	21.88	22.01	22.01	21.96	22.07
Conducted Power (Watts)	0.1589	0.1592	0.1466	0.1581	0.1542	0.1589	0.1589	0.1570	0.1611
ERP(dBm)	17.86	17.87	17.51	17.84	17.73	17.86	17.86	17.81	17.92
ERP(Watts)	0.0611	0.0612	0.0564	0.0608	0.0593	0.0611	0.0611	0.0604	0.0619

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.10	22.06	22.13	22.49	22.46	22.50	22.57
Conducted Power (Watts)	0.1622	0.1607	0.1633	0.1774	0.1762	0.1778	0.1807
ERP(dBm)	17.95	17.91	17.98	18.34	18.31	18.35	18.42
ERP(Watts)	0.0624	0.0618	0.0628	0.0682	0.0678	0.0684	0.0695



LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	20.95	20.97	20.65	20.90	21.00	20.59	21.02	20.95	21.04
Conducted Power (Watts)	0.1245	0.1250	0.1161	0.1230	0.1259	0.1146	0.1265	0.1245	0.1271
ERP(dBm)	16.80	16.82	16.50	16.75	16.85	16.44	16.87	16.80	16.89
ERP(Watts)	0.0479	0.0481	0.0447	0.0473	0.0484	0.0441	0.0486	0.0479	0.0489

LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.02	21.01	21.05	21.54	21.51	21.54	21.56
Conducted Power (Watts)	0.1265	0.1262	0.1274	0.1426	0.1416	0.1426	0.1432
ERP(dBm)	16.87	16.86	16.90	17.39	17.36	17.39	17.41
ERP(Watts)	0.0486	0.0485	0.0490	0.0548	0.0545	0.0548	0.0551



LTE Band 38 ($G_T - L_C = -1.0$ dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	23.02	22.73	22.95
Conducted Power (Watts)	0.2004	0.1875	0.1972
EIRP(dBm)	22.02	21.73	21.95
EIRP(Watts)	0.1592	0.1489	0.1567

LTE Band 38 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	23.03	22.80	22.85	23.07	22.87	22.99	23.08	22.85	22.94
Conducted Power (Watts)	0.2009	0.1905	0.1928	0.2028	0.1936	0.1991	0.2032	0.1928	0.1968
EIRP(dBm)	22.03	21.80	21.85	22.07	21.87	21.99	22.08	21.85	21.94
EIRP(Watts)	0.1596	0.1514	0.1531	0.1611	0.1538	0.1581	0.1614	0.1531	0.1563



LTE Band 38 ($G_T - L_C = -1.0$ dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.25	22.05	22.31
Conducted Power (Watts)	0.1679	0.1603	0.1702
EIRP(dBm)	21.25	21.05	21.31
EIRP(Watts)	0.1334	0.1274	0.1352

LTE Band 38 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	22.32	22.19	22.20	22.40	22.05	22.18	22.46	22.12	22.31
Conducted Power (Watts)	0.1706	0.1656	0.1660	0.1738	0.1603	0.1652	0.1762	0.1629	0.1702
EIRP(dBm)	21.32	21.19	21.20	21.40	21.05	21.18	21.46	21.12	21.31
EIRP(Watts)	0.1355	0.1315	0.1318	0.1380	0.1274	0.1312	0.1400	0.1294	0.1352



LTE Band 38 ($G_T - L_C = -1.0$ dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	21.18	21.07	21.10
Conducted Power (Watts)	0.1312	0.1279	0.1288
EIRP(dBm)	20.18	20.07	20.10
EIRP(Watts)	0.1042	0.1016	0.1023

LTE Band 38 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.23	20.94	21.09	21.31	20.93	21.19	21.30	20.99	21.11
Conducted Power (Watts)	0.1327	0.1242	0.1285	0.1352	0.1239	0.1315	0.1349	0.1256	0.1291
EIRP(dBm)	20.23	19.94	20.09	20.31	19.93	20.19	20.30	19.99	20.11
EIRP(Watts)	0.1054	0.0986	0.1021	0.1074	0.0984	0.1045	0.1072	0.0998	0.1026

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	22.36	22.64	22.90	22.43	22.73	22.83	22.60	22.81	22.83
Conducted Power (Watts)	0.1722	0.1837	0.1950	0.1750	0.1875	0.1919	0.1820	0.1910	0.1919
EIRP(dBm)	21.36	21.64	21.90	21.43	21.73	21.83	21.60	21.81	21.83
EIRP(Watts)	0.1368	0.1459	0.1549	0.1390	0.1489	0.1524	0.1445	0.1517	0.1524

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	22.53	22.64	22.88
Conducted Power (Watts)	0.1791	0.1837	0.1941
EIRP(dBm)	21.53	21.64	21.88
EIRP(Watts)	0.1422	0.1459	0.1542

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	21.71	21.97	22.33	21.81	22.00	22.41	21.89	22.07	22.44
Conducted Power (Watts)	0.1483	0.1574	0.1710	0.1517	0.1585	0.1742	0.1545	0.1611	0.1754
EIRP(dBm)	20.71	20.97	21.33	20.81	21.00	21.41	20.89	21.07	21.44
EIRP(Watts)	0.1178	0.1250	0.1358	0.1205	0.1259	0.1384	0.1227	0.1279	0.1393

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	21.87	21.95	22.25
Conducted Power (Watts)	0.1538	0.1567	0.1679
EIRP(dBm)	20.87	20.95	21.25
EIRP(Watts)	0.1222	0.1245	0.1334

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	20.75	20.86	21.23	20.78	20.88	21.32	20.91	20.94	21.27
Conducted Power (Watts)	0.1189	0.1219	0.1327	0.1197	0.1225	0.1355	0.1233	0.1242	0.1340
EIRP(dBm)	19.75	19.86	20.23	19.78	19.88	20.32	19.91	19.94	20.27
EIRP(Watts)	0.0944	0.0968	0.1054	0.0951	0.0973	0.1076	0.0979	0.0986	0.1064

LTE Band 41 ($G_T - L_C = -1.0\text{dB}$) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	20.91	20.82	21.12
Conducted Power (Watts)	0.1233	0.1208	0.1294
EIRP(dBm)	19.91	19.82	20.12
EIRP(Watts)	0.0979	0.0959	0.1028



LTE Band 41 CA ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.41	23.43	23.48	23.25	23.20	23.31	23.31	23.33	23.30
Conducted Power (Watts)	0.2193	0.2203	0.2228	0.2113	0.2089	0.2143	0.2143	0.2153	0.2138
EIRP(dBm)	22.41	22.43	22.48	22.25	22.20	22.31	22.31	22.33	22.30
EIRP(Watts)	0.1742	0.1750	0.1770	0.1679	0.1660	0.1702	0.1702	0.1710	0.1698

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.23	23.20	23.34	23.32	23.37	23.29	23.38	23.29	23.36
Conducted Power (Watts)	0.2104	0.2089	0.2158	0.2148	0.2173	0.2133	0.2178	0.2133	0.2168
EIRP(dBm)	22.23	22.20	22.34	22.32	22.37	22.29	22.38	22.29	22.36
EIRP(Watts)	0.1671	0.1660	0.1714	0.1706	0.1726	0.1694	0.1730	0.1694	0.1722



LTE Band 41 CA ($G_T - L_C = -1.0$ dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.41	23.37	23.22	23.28	23.30	23.19
Conducted Power (Watts)	0.2193	0.2173	0.2099	0.2128	0.2138	0.2084
EIRP(dBm)	22.41	22.37	22.22	22.28	22.30	22.19
EIRP(Watts)	0.1742	0.1726	0.1667	0.1690	0.1698	0.1656

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) QPSK						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.36	22.99	22.91	23.07	22.97	23.22
Conducted Power (Watts)	0.2168	0.1991	0.1954	0.2028	0.1982	0.2099
EIRP(dBm)	22.36	21.99	21.91	22.07	21.97	22.22
EIRP(Watts)	0.1722	0.1581	0.1552	0.1611	0.1574	0.1667

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.71	22.31	22.42	22.31	22.25	22.43	22.70	22.68	22.61
Conducted Power (Watts)	0.1866	0.1702	0.1746	0.1702	0.1679	0.1750	0.1862	0.1854	0.1824
EIRP(dBm)	21.71	21.31	21.42	21.31	21.25	21.43	21.70	21.68	21.61
EIRP(Watts)	0.1483	0.1352	0.1387	0.1352	0.1334	0.1390	0.1479	0.1472	0.1449

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.49	22.33	22.63	22.71	22.71	22.62	22.52	22.66	22.73
Conducted Power (Watts)	0.1774	0.1710	0.1832	0.1866	0.1866	0.1828	0.1786	0.1845	0.1875
EIRP(dBm)	21.49	21.33	21.63	21.71	21.71	21.62	21.52	21.66	21.73
EIRP(Watts)	0.1409	0.1358	0.1455	0.1483	0.1483	0.1452	0.1419	0.1466	0.1489



LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.67	22.65	22.65	22.63	22.67	22.70
Conducted Power (Watts)	0.1849	0.1841	0.1841	0.1832	0.1849	0.1862
EIRP(dBm)	21.67	21.65	21.65	21.63	21.67	21.70
EIRP(Watts)	0.1469	0.1462	0.1462	0.1455	0.1469	0.1479

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 16QAM						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.65	21.89	21.88	22.34	21.82	22.44
Conducted Power (Watts)	0.1841	0.1545	0.1542	0.1714	0.1521	0.1754
EIRP(dBm)	21.65	20.89	20.88	21.34	20.82	21.44
EIRP(Watts)	0.1462	0.1227	0.1225	0.1361	0.1208	0.1393



LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.52	20.45	20.36	20.30	20.21	20.40	20.50	20.52	20.48
Conducted Power (Watts)	0.1127	0.1109	0.1086	0.1072	0.1050	0.1096	0.1122	0.1127	0.1117
EIRP(dBm)	19.52	19.45	19.36	19.30	19.21	19.40	19.50	19.52	19.48
EIRP(Watts)	0.0895	0.0881	0.0863	0.0851	0.0834	0.0871	0.0891	0.0895	0.0887

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.34	20.19	20.50	20.64	20.63	20.51	20.44	20.34	20.44
Conducted Power (Watts)	0.1081	0.1045	0.1122	0.1159	0.1156	0.1125	0.1107	0.1081	0.1107
EIRP(dBm)	19.34	19.19	19.50	19.64	19.63	19.51	19.44	19.34	19.44
EIRP(Watts)	0.0859	0.0830	0.0891	0.0920	0.0918	0.0893	0.0879	0.0859	0.0879

LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 64QAM						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.36	20.35	20.31	21.34	21.47	21.21
Conducted Power (Watts)	0.1086	0.1084	0.1074	0.1361	0.1403	0.1321
EIRP(dBm)	19.36	19.35	19.31	20.34	20.47	20.21
EIRP(Watts)	0.0863	0.0861	0.0853	0.1081	0.1114	0.1050



LTE Band 41 CA ($G_T - L_C = -1.0$ dB) 64QAM						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.48	19.85	20.02	20.25	20.02	20.56
Conducted Power (Watts)	0.1117	0.0966	0.1005	0.1059	0.1005	0.1138
EIRP(dBm)	19.48	18.85	19.02	19.25	19.02	19.56
EIRP(Watts)	0.0887	0.0767	0.0798	0.0841	0.0798	0.0904



LTE Band 66 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	22.28	22.58	22.23	22.27	22.61	22.24	22.33	22.65	22.34
Conducted Power (Watts)	0.1690	0.1811	0.1671	0.1687	0.1824	0.1675	0.1710	0.1841	0.1714
EIRP(dBm)	21.28	21.58	21.23	21.27	21.61	21.24	21.33	21.65	21.34
EIRP(Watts)	0.1343	0.1439	0.1327	0.1340	0.1449	0.1330	0.1358	0.1462	0.1361

LTE Band 66 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	22.40	22.64	22.44	22.49	22.75	22.56	22.48	22.78	22.67
Conducted Power (Watts)	0.1738	0.1837	0.1754	0.1774	0.1884	0.1803	0.1770	0.1897	0.1849
EIRP(dBm)	21.40	21.64	21.44	21.49	21.75	21.56	21.48	21.78	21.67
EIRP(Watts)	0.1380	0.1459	0.1393	0.1409	0.1496	0.1432	0.1406	0.1507	0.1469



LTE Band 66 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	21.63	21.93	21.54	21.67	21.89	21.54	21.65	21.99	21.60
Conducted Power (Watts)	0.1455	0.1560	0.1426	0.1469	0.1545	0.1426	0.1462	0.1581	0.1445
EIRP(dBm)	20.63	20.93	20.54	20.67	20.89	20.54	20.65	20.99	20.60
EIRP(Watts)	0.1156	0.1239	0.1132	0.1167	0.1227	0.1132	0.1161	0.1256	0.1148

LTE Band 66 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	21.75	22.00	21.79	21.81	22.07	21.92	21.82	22.13	22.01
Conducted Power (Watts)	0.1496	0.1585	0.1510	0.1517	0.1611	0.1556	0.1521	0.1633	0.1589
EIRP(dBm)	20.75	21.00	20.79	20.81	21.07	20.92	20.82	21.13	21.01
EIRP(Watts)	0.1189	0.1259	0.1199	0.1205	0.1279	0.1236	0.1208	0.1297	0.1262



LTE Band 66 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	20.82	21.10	20.96	20.78	21.01	20.83	20.66	20.85	20.63
Conducted Power (Watts)	0.1208	0.1288	0.1247	0.1197	0.1262	0.1211	0.1164	0.1216	0.1156
EIRP(dBm)	19.82	20.10	19.96	19.78	20.01	19.83	19.66	19.85	19.63
EIRP(Watts)	0.0959	0.1023	0.0991	0.0951	0.1002	0.0962	0.0925	0.0966	0.0918

LTE Band 66 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	20.62	20.92	20.61	20.51	20.86	20.48	20.52	20.82	20.44
Conducted Power (Watts)	0.1153	0.1236	0.1151	0.1125	0.1219	0.1117	0.1127	0.1208	0.1107
EIRP(dBm)	19.62	19.92	19.61	19.51	19.86	19.48	19.52	19.82	19.44
EIRP(Watts)	0.0916	0.0982	0.0914	0.0893	0.0968	0.0887	0.0895	0.0959	0.0879



LTE Band 71 ($G_T - L_C = -2.5$ dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	23.01	23.04	22.99	22.92	22.90	23.01	22.96	23.07	23.07
Conducted Power (Watts)	0.2000	0.2014	0.1991	0.1959	0.1950	0.2000	0.1977	0.2028	0.2028
ERP(dBm)	18.36	18.39	18.34	18.27	18.25	18.36	18.31	18.42	18.42
ERP(Watts)	0.0685	0.0690	0.0682	0.0671	0.0668	0.0685	0.0678	0.0695	0.0695

LTE Band 71 ($G_T - L_C = -2.5$ dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	22.95	23.12	23.16
Conducted Power (Watts)	0.1972	0.2051	0.2070
ERP(dBm)	18.30	18.47	18.51
ERP(Watts)	0.0676	0.0703	0.0710



LTE Band 71 ($G_T - L_C = -2.5$ dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	22.43	22.35	22.30	22.30	22.24	22.43	22.36	22.19	22.42
Conducted Power (Watts)	0.1750	0.1718	0.1698	0.1698	0.1675	0.1750	0.1722	0.1656	0.1746
ERP(dBm)	17.78	17.70	17.65	17.65	17.59	17.78	17.71	17.54	17.77
ERP(Watts)	0.0600	0.0589	0.0582	0.0582	0.0574	0.0600	0.0590	0.0568	0.0598

LTE Band 71 ($G_T - L_C = -2.5$ dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	22.48	22.43	22.45
Conducted Power (Watts)	0.1770	0.1750	0.1758
ERP(dBm)	17.83	17.78	17.80
ERP(Watts)	0.0607	0.0600	0.0603



LTE Band 71 ($G_T - L_C = -2.5$ dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	21.62	21.67	21.61	21.62	21.69	21.65	21.61	21.66	21.55
Conducted Power (Watts)	0.1452	0.1469	0.1449	0.1452	0.1476	0.1462	0.1449	0.1466	0.1429
ERP(dBm)	16.97	17.02	16.96	16.97	17.04	17.00	16.96	17.01	16.90
ERP(Watts)	0.0498	0.0504	0.0497	0.0498	0.0506	0.0501	0.0497	0.0502	0.0490

LTE Band 71 ($G_T - L_C = -2.5$ dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	21.59	21.61	21.55
Conducted Power (Watts)	0.1442	0.1449	0.1429
ERP(dBm)	16.94	16.96	16.90
ERP(Watts)	0.0494	0.0497	0.0490

<Bottom Antenna>

LTE Band 2 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.94	23.04	23.12	22.93	22.97	23.08	22.90	22.95	23.08
Conducted Power (Watts)	0.1968	0.2014	0.2051	0.1963	0.1982	0.2032	0.1950	0.1972	0.2032
EIRP(dBm)	22.44	22.54	22.62	22.43	22.47	22.58	22.40	22.45	22.58
EIRP(Watts)	0.1754	0.1795	0.1828	0.1750	0.1766	0.1811	0.1738	0.1758	0.1811

LTE Band 2 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	23.03	23.12	23.21	23.05	23.12	23.22	23.07	23.15	23.23
Conducted Power (Watts)	0.2009	0.2051	0.2094	0.2018	0.2051	0.2099	0.2028	0.2065	0.2104
EIRP(dBm)	22.53	22.62	22.71	22.55	22.62	22.72	22.57	22.65	22.73
EIRP(Watts)	0.1791	0.1828	0.1866	0.1799	0.1828	0.1871	0.1807	0.1841	0.1875



LTE Band 2 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.62	22.09	22.29	22.15	22.20	22.59	22.53	22.61	22.73
Conducted Power (Watts)	0.1828	0.1618	0.1694	0.1641	0.1660	0.1816	0.1791	0.1824	0.1875
EIRP(dBm)	22.12	21.59	21.79	21.65	21.70	22.09	22.03	22.11	22.23
EIRP(Watts)	0.1629	0.1442	0.1510	0.1462	0.1479	0.1618	0.1596	0.1626	0.1671

LTE Band 2 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.58	22.66	22.70	22.66	22.76	22.84	22.74	22.78	22.83
Conducted Power (Watts)	0.1811	0.1845	0.1862	0.1845	0.1888	0.1923	0.1879	0.1897	0.1919
EIRP(dBm)	22.08	22.16	22.20	22.16	22.26	22.34	22.24	22.28	22.33
EIRP(Watts)	0.1614	0.1644	0.1660	0.1644	0.1683	0.1714	0.1675	0.1690	0.1710



LTE Band 2 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	20.99	20.79	20.63	20.93	20.83	21.04	21.06	20.90	21.14
Conducted Power (Watts)	0.1256	0.1199	0.1156	0.1239	0.1211	0.1271	0.1276	0.1230	0.1300
EIRP(dBm)	20.49	20.29	20.13	20.43	20.33	20.54	20.56	20.40	20.64
EIRP(Watts)	0.1119	0.1069	0.1030	0.1104	0.1079	0.1132	0.1138	0.1096	0.1159

LTE Band 2 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	20.72	20.78	20.91	21.12	21.02	21.21	20.99	20.82	21.14
Conducted Power (Watts)	0.1180	0.1197	0.1233	0.1294	0.1265	0.1321	0.1256	0.1208	0.1300
EIRP(dBm)	20.22	20.28	20.41	20.62	20.52	20.71	20.49	20.32	20.64
EIRP(Watts)	0.1052	0.1067	0.1099	0.1153	0.1127	0.1178	0.1119	0.1076	0.1159



LTE Band 4 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	23.09	23.21	23.32	23.12	23.30	23.30	23.17	23.23	23.43
Conducted Power (Watts)	0.2037	0.2094	0.2148	0.2051	0.2138	0.2138	0.2075	0.2104	0.2203
EIRP(dBm)	22.59	22.71	22.82	22.62	22.80	22.80	22.67	22.73	22.93
EIRP(Watts)	0.1816	0.1866	0.1914	0.1828	0.1905	0.1905	0.1849	0.1875	0.1963

LTE Band 4 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	23.12	23.29	23.35	23.30	23.40	23.50	23.33	23.42	23.59
Conducted Power (Watts)	0.2051	0.2133	0.2163	0.2138	0.2188	0.2239	0.2153	0.2198	0.2286
EIRP(dBm)	22.62	22.79	22.85	22.80	22.90	23.00	22.83	22.92	23.09
EIRP(Watts)	0.1828	0.1901	0.1928	0.1905	0.1950	0.1995	0.1919	0.1959	0.2037

LTE Band 4 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.64	22.85	22.56	22.59	22.43	22.84	22.22	22.32	22.87
Conducted Power (Watts)	0.1837	0.1928	0.1803	0.1816	0.1750	0.1923	0.1667	0.1706	0.1936
EIRP(dBm)	22.14	22.35	22.06	22.09	21.93	22.34	21.72	21.82	22.37
EIRP(Watts)	0.1637	0.1718	0.1607	0.1618	0.1560	0.1714	0.1486	0.1521	0.1726

LTE Band 4 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.22	22.88	22.93	22.57	22.62	22.72	22.58	22.71	22.95
Conducted Power (Watts)	0.1667	0.1941	0.1963	0.1807	0.1828	0.1871	0.1811	0.1866	0.1972
EIRP(dBm)	21.72	22.38	22.43	22.07	22.12	22.22	22.08	22.21	22.45
EIRP(Watts)	0.1486	0.1730	0.1750	0.1611	0.1629	0.1667	0.1614	0.1663	0.1758



LTE Band 4 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.02	21.21	21.24	20.89	21.11	21.04	20.90	21.13	21.33
Conducted Power (Watts)	0.1265	0.1321	0.1330	0.1227	0.1291	0.1271	0.1230	0.1297	0.1358
EIRP(dBm)	20.52	20.71	20.74	20.39	20.61	20.54	20.40	20.63	20.83
EIRP(Watts)	0.1127	0.1178	0.1186	0.1094	0.1151	0.1132	0.1096	0.1156	0.1211

LTE Band 4 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.09	21.39	21.30	21.24	21.22	21.26	20.82	21.31	21.52
Conducted Power (Watts)	0.1285	0.1377	0.1349	0.1330	0.1324	0.1337	0.1208	0.1352	0.1419
EIRP(dBm)	20.59	20.89	20.80	20.74	20.72	20.76	20.32	20.81	21.02
EIRP(Watts)	0.1146	0.1227	0.1202	0.1186	0.1180	0.1191	0.1076	0.1205	0.1265

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.11	23.25	23.22	23.35	23.35	23.35	23.39	23.25	23.33
Conducted Power (Watts)	0.2046	0.2113	0.2099	0.2163	0.2163	0.2163	0.2183	0.2113	0.2153
ERP(dBm)	18.96	19.10	19.07	19.20	19.20	19.20	19.24	19.10	19.18
ERP(Watts)	0.0787	0.0813	0.0807	0.0832	0.0832	0.0832	0.0839	0.0813	0.0828

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.26	23.34	23.45
Conducted Power (Watts)	0.2118	0.2158	0.2213
ERP(dBm)	19.11	19.19	19.30
ERP(Watts)	0.0815	0.0830	0.0851

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.63	22.36	22.76	22.80	22.80	22.87	22.65	22.68	22.97
Conducted Power (Watts)	0.1832	0.1722	0.1888	0.1905	0.1905	0.1936	0.1841	0.1854	0.1982
ERP(dBm)	18.48	18.21	18.61	18.65	18.65	18.72	18.50	18.53	18.82
ERP(Watts)	0.0705	0.0662	0.0726	0.0733	0.0733	0.0745	0.0708	0.0713	0.0762

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.59	22.61	22.62
Conducted Power (Watts)	0.1816	0.1824	0.1828
ERP(dBm)	18.44	18.46	18.47
ERP(Watts)	0.0698	0.0701	0.0703



LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.14	21.32	21.28	21.36	21.45	21.59	21.26	21.44	21.43
Conducted Power (Watts)	0.1300	0.1355	0.1343	0.1368	0.1396	0.1442	0.1337	0.1393	0.1390
ERP(dBm)	16.99	17.17	17.13	17.21	17.30	17.44	17.11	17.29	17.28
ERP(Watts)	0.0500	0.0521	0.0516	0.0526	0.0537	0.0555	0.0514	0.0536	0.0535

LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.02	21.11	21.32
Conducted Power (Watts)	0.1265	0.1291	0.1355
ERP(dBm)	16.87	16.96	17.17
ERP(Watts)	0.0486	0.0497	0.0521



LTE Band 12 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	23.23	23.26	23.18	23.15	23.34	23.32	23.39	23.23	23.22
Conducted Power (Watts)	0.2104	0.2118	0.2080	0.2065	0.2158	0.2148	0.2183	0.2104	0.2099
ERP(dBm)	19.08	19.11	19.03	19.00	19.19	19.17	19.24	19.08	19.07
ERP(Watts)	0.0809	0.0815	0.0800	0.0794	0.0830	0.0826	0.0839	0.0809	0.0807

LTE Band 12 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	23.42	23.29	23.26
Conducted Power (Watts)	0.2198	0.2133	0.2118
ERP(dBm)	19.27	19.14	19.11
ERP(Watts)	0.0845	0.0820	0.0815



LTE Band 12 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.46	22.33	22.63	22.79	22.75	22.52	22.26	22.88	22.76
Conducted Power (Watts)	0.1762	0.1710	0.1832	0.1901	0.1884	0.1786	0.1683	0.1941	0.1888
ERP(dBm)	18.31	18.18	18.48	18.64	18.60	18.37	18.11	18.73	18.61
ERP(Watts)	0.0678	0.0658	0.0705	0.0731	0.0724	0.0687	0.0647	0.0746	0.0726

LTE Band 12 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.96	22.90	22.75
Conducted Power (Watts)	0.1977	0.1950	0.1884
ERP(dBm)	18.81	18.75	18.60
ERP(Watts)	0.0760	0.0750	0.0724



LTE Band 12 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.08	21.42	21.05	21.25	21.01	20.95	21.49	21.55	21.27
Conducted Power (Watts)	0.1282	0.1387	0.1274	0.1334	0.1262	0.1245	0.1409	0.1429	0.1340
ERP(dBm)	16.93	17.27	16.90	17.10	16.86	16.80	17.34	17.40	17.12
ERP(Watts)	0.0493	0.0533	0.0490	0.0513	0.0485	0.0479	0.0542	0.0550	0.0515

LTE Band 12 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.13	21.61	21.50
Conducted Power (Watts)	0.1297	0.1449	0.1413
ERP(dBm)	16.98	17.46	17.35
ERP(Watts)	0.0499	0.0557	0.0543



LTE Band 17 ($G_T - L_C = -2.0$ dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	23.30	23.36	23.33	23.29	23.35	23.47
Conducted Power (Watts)	0.2138	0.2168	0.2153	0.2133	0.2163	0.2223
ERP(dBm)	19.15	19.21	19.18	19.14	19.20	19.32
ERP(Watts)	0.0822	0.0834	0.0828	0.0820	0.0832	0.0855

LTE Band 17 ($G_T - L_C = -2.0$ dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.89	22.65	22.37	22.90	22.57	22.54
Conducted Power (Watts)	0.1945	0.1841	0.1726	0.1950	0.1807	0.1795
ERP(dBm)	18.74	18.50	18.22	18.75	18.42	18.39
ERP(Watts)	0.0748	0.0708	0.0664	0.0750	0.0695	0.0690



LTE Band 17 ($G_T - L_C = -2.0$ dB) 64QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	21.14	21.11	21.56	21.01	21.39	21.44
Conducted Power (Watts)	0.1300	0.1291	0.1432	0.1262	0.1377	0.1393
ERP(dBm)	16.99	16.96	17.41	16.86	17.24	17.29
ERP(Watts)	0.0500	0.0497	0.0551	0.0485	0.0530	0.0536

LTE Band 25 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.82	22.87	23.13	22.74	22.92	23.26	22.83	22.87	23.28
Conducted Power (Watts)	0.1914	0.1936	0.2056	0.1879	0.1959	0.2118	0.1919	0.1936	0.2128
EIRP(dBm)	22.32	22.37	22.63	22.24	22.42	22.76	22.33	22.37	22.78
EIRP(Watts)	0.1706	0.1726	0.1832	0.1675	0.1746	0.1888	0.1710	0.1726	0.1897

LTE Band 25 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.95	22.93	23.29	23.06	22.92	23.31	22.94	23.00	23.36
Conducted Power (Watts)	0.1972	0.1963	0.2133	0.2023	0.1959	0.2143	0.1968	0.1995	0.2168
EIRP(dBm)	22.45	22.43	22.79	22.56	22.42	22.81	22.44	22.50	22.86
EIRP(Watts)	0.1758	0.1750	0.1901	0.1803	0.1746	0.1910	0.1754	0.1778	0.1932



LTE Band 25 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.03	22.13	22.67	21.88	22.44	22.71	22.30	22.09	22.78
Conducted Power (Watts)	0.1596	0.1633	0.1849	0.1542	0.1754	0.1866	0.1698	0.1618	0.1897
EIRP(dBm)	21.53	21.63	22.17	21.38	21.94	22.21	21.80	21.59	22.28
EIRP(Watts)	0.1422	0.1455	0.1648	0.1374	0.1563	0.1663	0.1514	0.1442	0.1690

LTE Band 25 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.18	22.47	22.33	22.45	21.95	22.79	22.55	22.63	22.84
Conducted Power (Watts)	0.1652	0.1766	0.1710	0.1758	0.1567	0.1901	0.1799	0.1832	0.1923
EIRP(dBm)	21.68	21.97	21.83	21.95	21.45	22.29	22.05	22.13	22.34
EIRP(Watts)	0.1472	0.1574	0.1524	0.1567	0.1396	0.1694	0.1603	0.1633	0.1714



LTE Band 25 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	20.47	20.86	21.08	20.82	20.99	21.25	20.89	20.89	21.19
Conducted Power (Watts)	0.1114	0.1219	0.1282	0.1208	0.1256	0.1334	0.1227	0.1227	0.1315
EIRP(dBm)	19.97	20.36	20.58	20.32	20.49	20.75	20.39	20.39	20.69
EIRP(Watts)	0.0993	0.1086	0.1143	0.1076	0.1119	0.1189	0.1094	0.1094	0.1172

LTE Band 25 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	20.90	20.63	20.63	20.67	20.55	21.38	20.98	21.09	21.29
Conducted Power (Watts)	0.1230	0.1156	0.1156	0.1167	0.1135	0.1374	0.1253	0.1285	0.1346
EIRP(dBm)	20.40	20.13	20.13	20.17	20.05	20.88	20.48	20.59	20.79
EIRP(Watts)	0.1096	0.1030	0.1030	0.1040	0.1012	0.1225	0.1117	0.1146	0.1199



LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.19	23.10	23.16	23.10	23.00	23.16	23.03	23.08	23.27
Conducted Power (Watts)	0.2084	0.2042	0.2070	0.2042	0.1995	0.2070	0.2009	0.2032	0.2123
ERP(dBm)	19.04	18.95	19.01	18.95	18.85	19.01	18.88	18.93	19.12
ERP(Watts)	0.0802	0.0785	0.0796	0.0785	0.0767	0.0796	0.0773	0.0782	0.0817

LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	23.05	23.20	23.27	23.43	23.40	23.49	23.29
Conducted Power (Watts)	0.2018	0.2089	0.2123	0.2203	0.2188	0.2234	0.2133
ERP(dBm)	18.90	19.05	19.12	19.28	19.25	19.34	19.14
ERP(Watts)	0.0776	0.0804	0.0817	0.0847	0.0841	0.0859	0.0820

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.45	22.40	22.19	22.60	22.13	22.76	22.39	22.09	22.81
Conducted Power (Watts)	0.1758	0.1738	0.1656	0.1820	0.1633	0.1888	0.1734	0.1618	0.1910
ERP(dBm)	18.30	18.25	18.04	18.45	17.98	18.61	18.24	17.94	18.66
ERP(Watts)	0.0676	0.0668	0.0637	0.0700	0.0628	0.0726	0.0667	0.0622	0.0735

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.77	22.65	22.17	22.99	22.96	22.84	22.76
Conducted Power (Watts)	0.1892	0.1841	0.1648	0.1991	0.1977	0.1923	0.1888
ERP(dBm)	18.62	18.50	18.02	18.84	18.81	18.69	18.61
ERP(Watts)	0.0728	0.0708	0.0634	0.0766	0.0760	0.0740	0.0726



LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.26	21.38	20.96	21.22	21.14	21.22	21.05	20.99	21.13
Conducted Power (Watts)	0.1337	0.1374	0.1247	0.1324	0.1300	0.1324	0.1274	0.1256	0.1297
ERP(dBm)	17.11	17.23	16.81	17.07	16.99	17.07	16.90	16.84	16.98
ERP(Watts)	0.0514	0.0528	0.0480	0.0509	0.0500	0.0509	0.0490	0.0483	0.0499

LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.40	21.33	21.14	21.70	21.67	21.71	21.40
Conducted Power (Watts)	0.1380	0.1358	0.1300	0.1479	0.1469	0.1483	0.1380
ERP(dBm)	17.25	17.18	16.99	17.55	17.52	17.56	17.25
ERP(Watts)	0.0531	0.0522	0.0500	0.0569	0.0565	0.0570	0.0531



LTE Band 66 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	22.94	23.41	22.90	22.96	23.24	23.09	22.97	23.26	22.86
Conducted Power (Watts)	0.1968	0.2193	0.1950	0.1977	0.2109	0.2037	0.1982	0.2118	0.1932
EIRP(dBm)	22.44	22.91	22.40	22.46	22.74	22.59	22.47	22.76	22.36
EIRP(Watts)	0.1754	0.1954	0.1738	0.1762	0.1879	0.1816	0.1766	0.1888	0.1722

LTE Band 66 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	23.11	23.32	23.23	23.14	23.31	23.34	23.22	23.48	23.43
Conducted Power (Watts)	0.2046	0.2148	0.2104	0.2061	0.2143	0.2158	0.2099	0.2228	0.2203
EIRP(dBm)	22.61	22.82	22.73	22.64	22.81	22.84	22.72	22.98	22.93
EIRP(Watts)	0.1824	0.1914	0.1875	0.1837	0.1910	0.1923	0.1871	0.1986	0.1963

LTE Band 66 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	22.07	22.49	22.21	22.26	22.84	22.46	22.16	22.33	22.65
Conducted Power (Watts)	0.1611	0.1774	0.1663	0.1683	0.1923	0.1762	0.1644	0.1710	0.1841
EIRP(dBm)	21.57	21.99	21.71	21.76	22.34	21.96	21.66	21.83	22.15
EIRP(Watts)	0.1435	0.1581	0.1483	0.1500	0.1714	0.1570	0.1466	0.1524	0.1641

LTE Band 66 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	22.72	22.83	22.48	22.75	22.69	22.36	22.47	22.61	22.71
Conducted Power (Watts)	0.1871	0.1919	0.1770	0.1884	0.1858	0.1722	0.1766	0.1824	0.1866
EIRP(dBm)	22.22	22.33	21.98	22.25	22.19	21.86	21.97	22.11	22.21
EIRP(Watts)	0.1667	0.1710	0.1578	0.1679	0.1656	0.1535	0.1574	0.1626	0.1663



LTE Band 66 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	20.48	21.21	20.80	21.07	21.42	21.03	20.98	21.26	21.26
Conducted Power (Watts)	0.1117	0.1321	0.1202	0.1279	0.1387	0.1268	0.1253	0.1337	0.1337
EIRP(dBm)	19.98	20.71	20.30	20.57	20.92	20.53	20.48	20.76	20.76
EIRP(Watts)	0.0995	0.1178	0.1072	0.1140	0.1236	0.1130	0.1117	0.1191	0.1191

LTE Band 66 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	20.61	21.39	21.08	21.19	21.44	21.35	20.97	20.98	20.93
Conducted Power (Watts)	0.1151	0.1377	0.1282	0.1315	0.1393	0.1365	0.1250	0.1253	0.1239
EIRP(dBm)	20.11	20.89	20.58	20.69	20.94	20.85	20.47	20.48	20.43
EIRP(Watts)	0.1026	0.1227	0.1143	0.1172	0.1242	0.1216	0.1114	0.1117	0.1104



LTE Band 71 ($G_T - L_C = -2.5$ dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	23.22	23.14	23.15	23.10	23.09	23.23	23.18	23.28	23.27
Conducted Power (Watts)	0.2099	0.2061	0.2065	0.2042	0.2037	0.2104	0.2080	0.2128	0.2123
ERP(dBm)	18.57	18.49	18.50	18.45	18.44	18.58	18.53	18.63	18.62
ERP(Watts)	0.0719	0.0706	0.0708	0.0700	0.0698	0.0721	0.0713	0.0729	0.0728

LTE Band 71 ($G_T - L_C = -2.5$ dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	23.22	23.24	23.34
Conducted Power (Watts)	0.2099	0.2109	0.2158
ERP(dBm)	18.57	18.59	18.69
ERP(Watts)	0.0719	0.0723	0.0740



LTE Band 71 ($G_T - L_C = -2.5$ dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	22.55	22.53	22.52	22.62	22.46	22.56	22.53	22.63	22.55
Conducted Power (Watts)	0.1799	0.1791	0.1786	0.1828	0.1762	0.1803	0.1791	0.1832	0.1799
ERP(dBm)	17.90	17.88	17.87	17.97	17.81	17.91	17.88	17.98	17.90
ERP(Watts)	0.0617	0.0614	0.0612	0.0627	0.0604	0.0618	0.0614	0.0628	0.0617

LTE Band 71 ($G_T - L_C = -2.5$ dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	22.79	22.62	22.65
Conducted Power (Watts)	0.1901	0.1828	0.1841
ERP(dBm)	18.14	17.97	18.00
ERP(Watts)	0.0652	0.0627	0.0631



LTE Band 71 ($G_T - L_C = -2.5$ dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	21.70	21.73	21.82	21.85	21.82	21.83	21.92	21.94	21.95
Conducted Power (Watts)	0.1479	0.1489	0.1521	0.1531	0.1521	0.1524	0.1556	0.1563	0.1567
ERP(dBm)	17.05	17.08	17.17	17.20	17.17	17.18	17.27	17.29	17.30
ERP(Watts)	0.0507	0.0511	0.0521	0.0525	0.0521	0.0522	0.0533	0.0536	0.0537

LTE Band 71 ($G_T - L_C = -2.5$ dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	21.88	21.77	21.82
Conducted Power (Watts)	0.1542	0.1503	0.1521
ERP(dBm)	17.23	17.12	17.17
ERP(Watts)	0.0528	0.0515	0.0521

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.61	5.54	6	PASS
Middle CH	3.57	4.55	5.54	5.97	
Highest CH	3.59	4.55	5.28	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.25	5.97	PASS		
Middle CH	5.25	5.91			
Highest CH	5.19	5.88			

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.58	5.13	5.91	PASS
Middle CH	3.57	4.55	4.99	5.94	
Highest CH	3.48	4.55	4.96	5.88	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.45	5.94	PASS		
Middle CH	5.33	5.91			
Highest CH	5.39	5.94			

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.41	4.32	5.68	PASS
Middle CH	3.39	4.7	3.91	5.97	
Highest CH	3.59	4.61	5.3	6	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.46	5.71	PASS		
Middle CH	4.20	5.97			
Highest CH	5.39	6.00			



Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.61	5.16	5.91	PASS
Middle CH	3.59	4.64	5.1	5.51	
Highest CH	3.54	4.55	4.58	5.88	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.45	5.88	PASS		
Middle CH	5.54	5.48			
Highest CH	4.43	5.88			

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.67	5.54	5.91	PASS
Middle CH	3.62	4.55	4.78	5.94	
Highest CH	3.65	4.64	5.3	5.86	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.28	5.88	PASS		
Middle CH	5.01	5.91			
Highest CH	5.45	5.91			

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.67	5.04	5.91	PASS
Middle CH	3.62	4.64	5.59	5.91	
Highest CH	3.65	4.64	5.59	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.16	5.88	PASS		
Middle CH	5.57	5.94			
Highest CH	5.25	5.91			



Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.58	5.59	5.91	PASS
Middle CH	3.57	4.52	5.54	5.86	
Highest CH	3.54	4.58	5.57	5.94	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.22	5.88	PASS		
Middle CH	5.59	5.88			
Highest CH	5.57	5.94			

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.78	5.36	6.03	PASS
Middle CH	3.51	4.81	5.22	6.06	
Highest CH	3.54	4.64	4.43	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.36	6.03	PASS		
Middle CH	5.33	5.97			
Highest CH	4.64	5.91			

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.9	5.33	4.75	6.67	PASS
Middle CH	3.74	5.01	5.65	6.38	
Highest CH	4.32	5.68	6.29	6.09	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.68	6.9	PASS		
Middle CH	8.03	7.04			
Highest CH	5.62	6.78			



Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	6.06	6.26	7.3	PASS
Middle CH	3.91	6.64	4.78	6.49	
Highest CH	4.06	6.38	5.65	6.06	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.86	6.67	PASS		
Middle CH	4.99	7.25			
Highest CH	5.54	7.83			

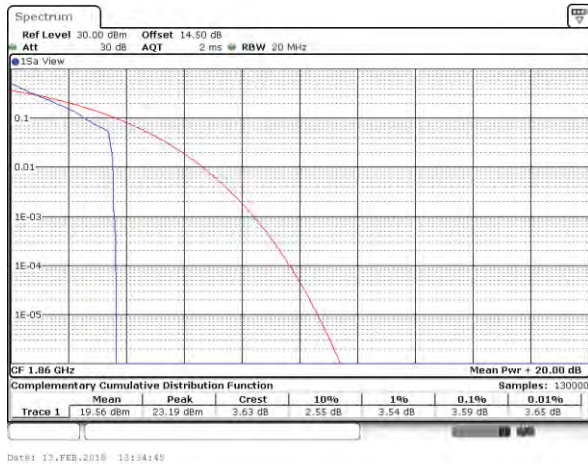
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.55	5.13	5.97	PASS
Middle CH	3.54	4.55	5.48	5.91	
Highest CH	3.54	4.58	5.16	4.58	
Mode	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.39	5.94	PASS		
Middle CH	5.22	5.88			
Highest CH	5.3	5.91			

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.35	4.58	5.57	PASS
Middle CH	3.54	4.38	5.57	5.57	
Highest CH	3.54	4.49	5.16	5.91	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.80	6.38	PASS		
Middle CH	5.36	5.54			
Highest CH	6.23	6.23			

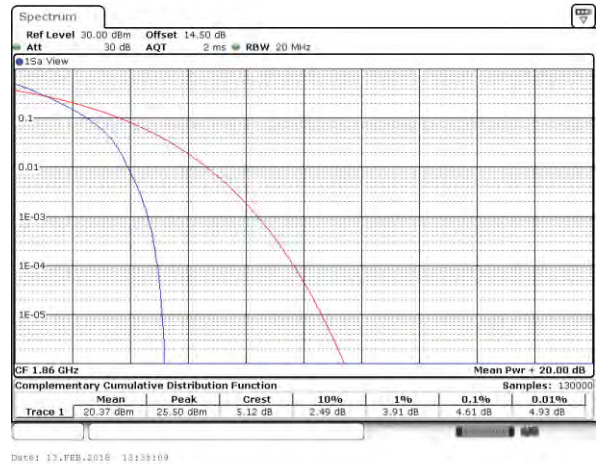


LTE Band 2 / 20MHz / QPSK

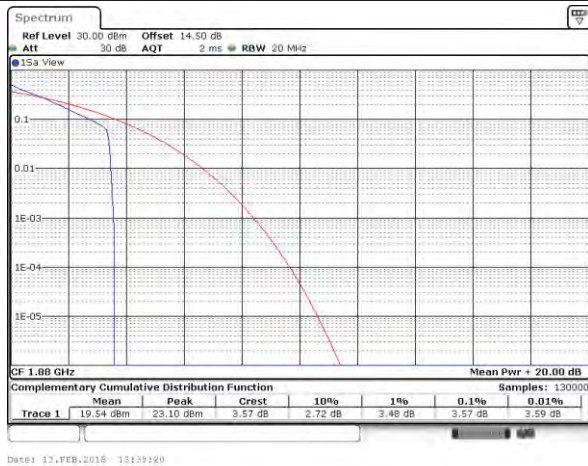
Lowest Channel / 1RB



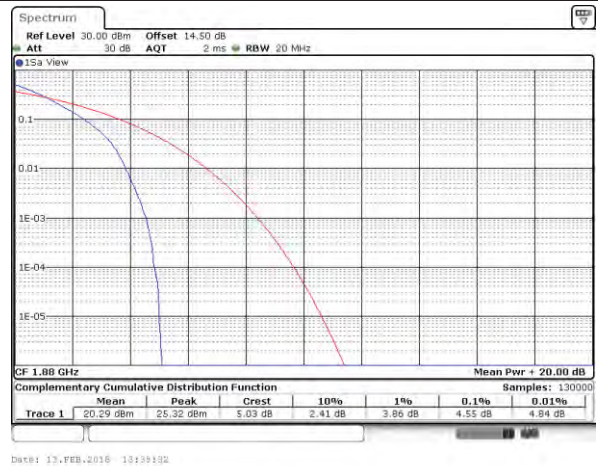
Lowest Channel / Full RB



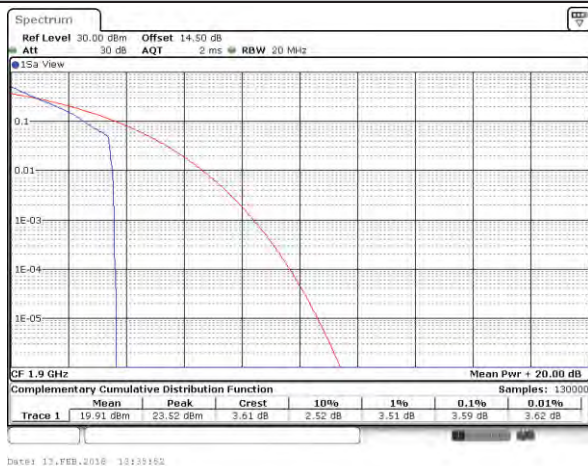
Middle Channel / 1RB



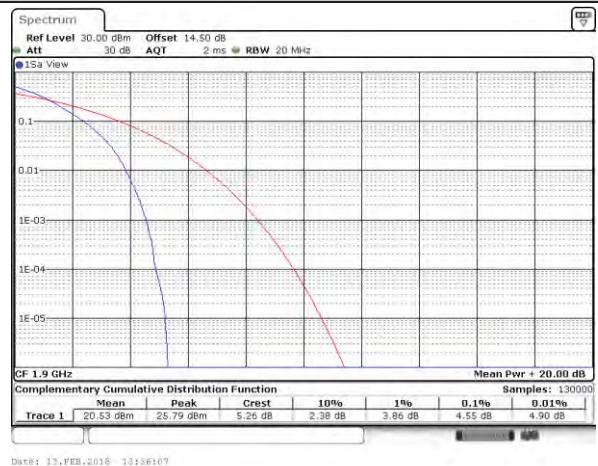
Middle Channel / Full RB



Highest Channel / 1RB



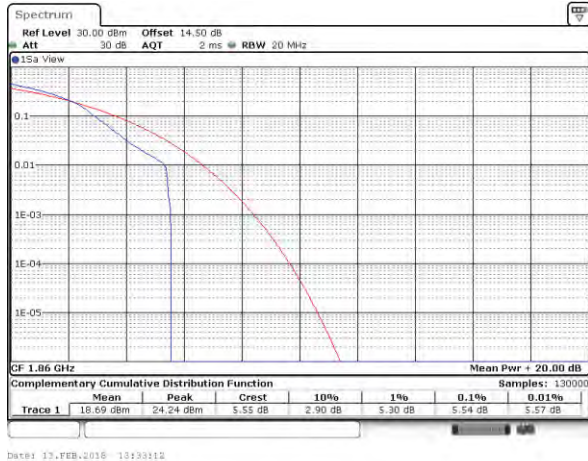
Highest Channel / Full RB



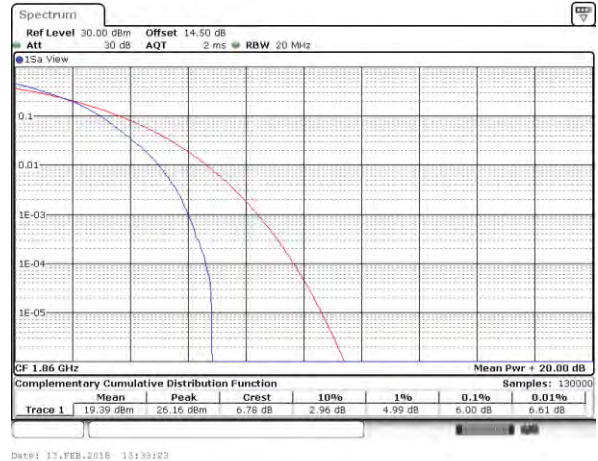


LTE Band 2 / 20MHz / 16QAM

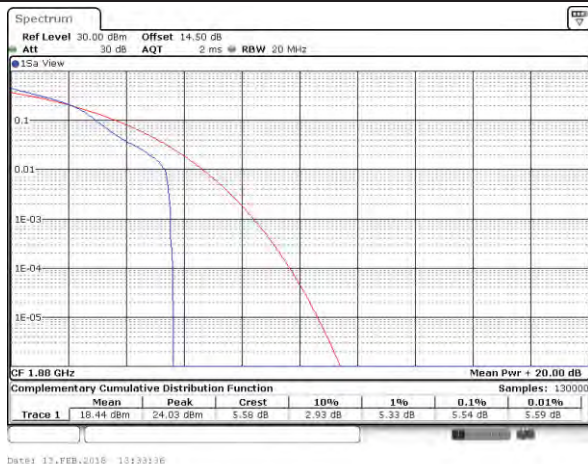
Lowest Channel / 1RB



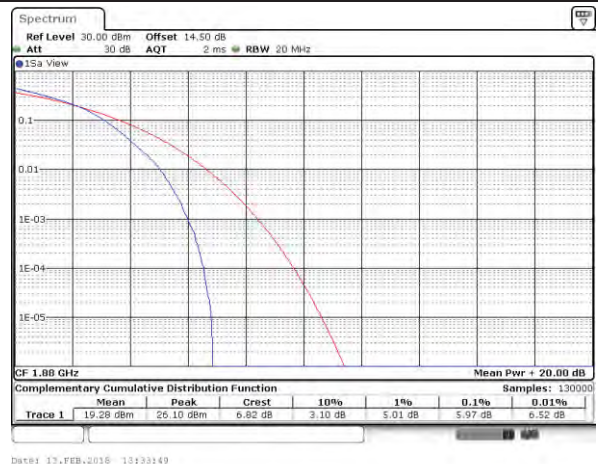
Lowest Channel / Full RB



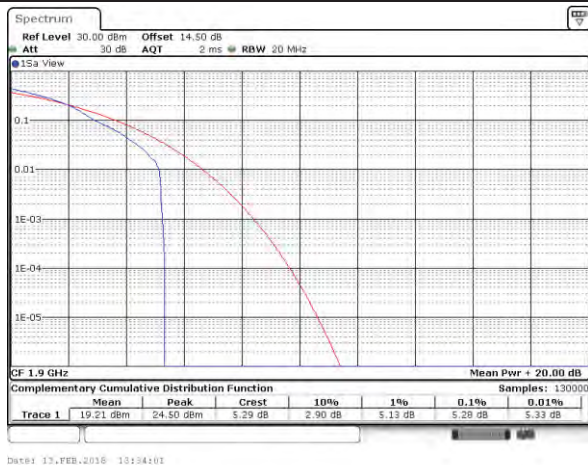
Middle Channel / 1RB



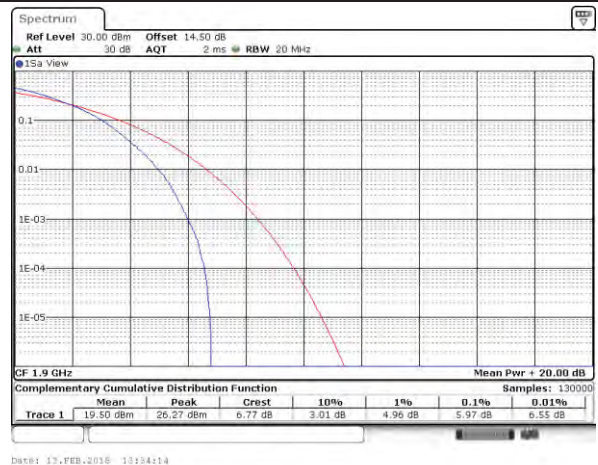
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





LTE Band 2 / 20MHz / 64QAM

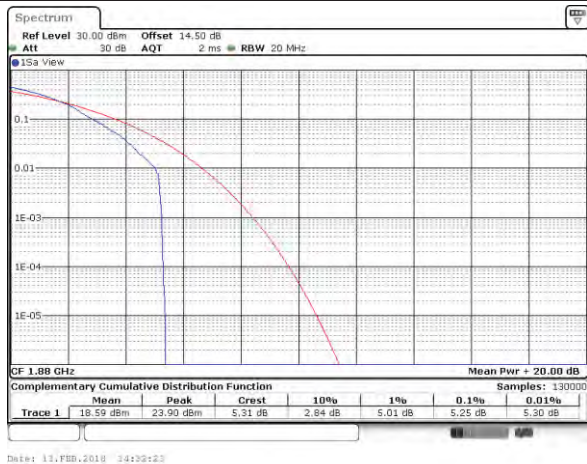
Lowest Channel / 1RB



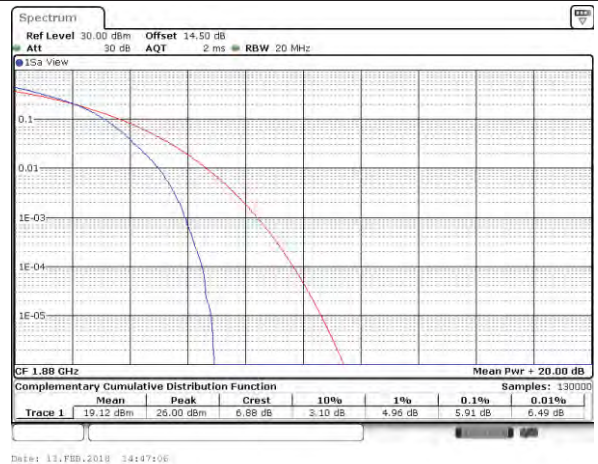
Lowest Channel / Full RB



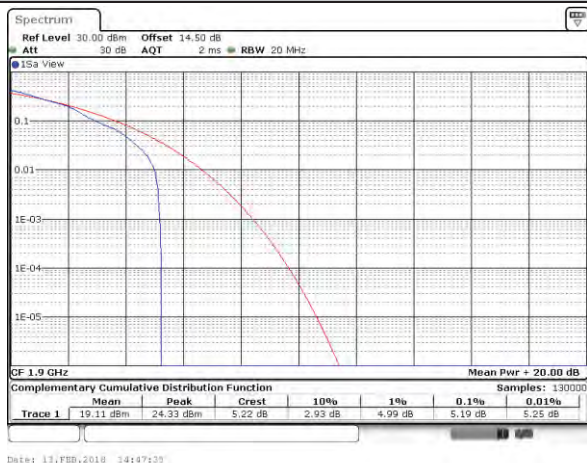
Middle Channel / 1RB



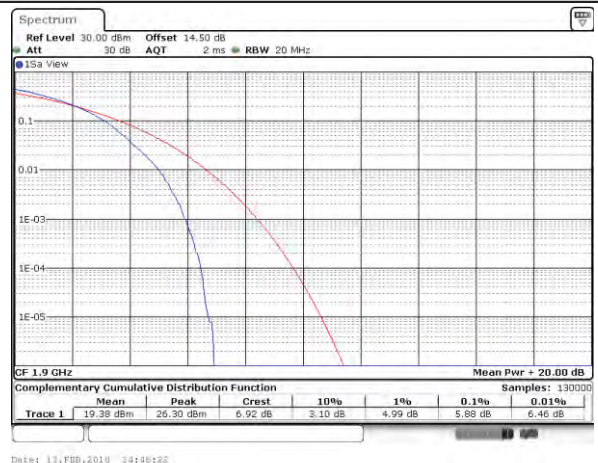
Middle Channel / Full RB



Highest Channel / 1RB



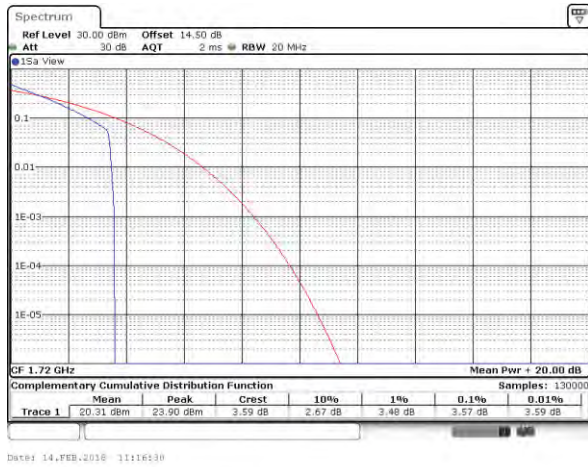
Highest Channel / Full RB



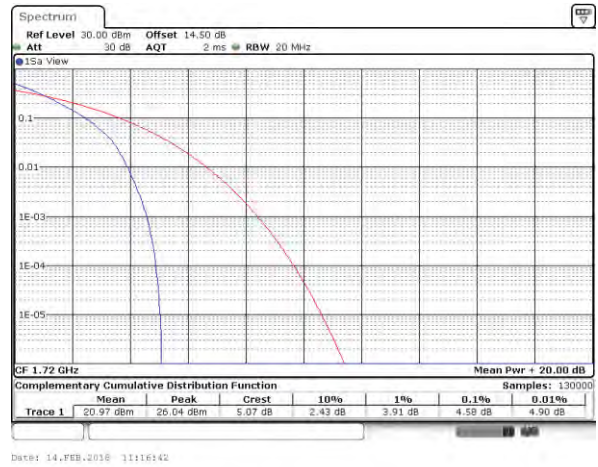


LTE Band 4 / 20MHz / QPSK

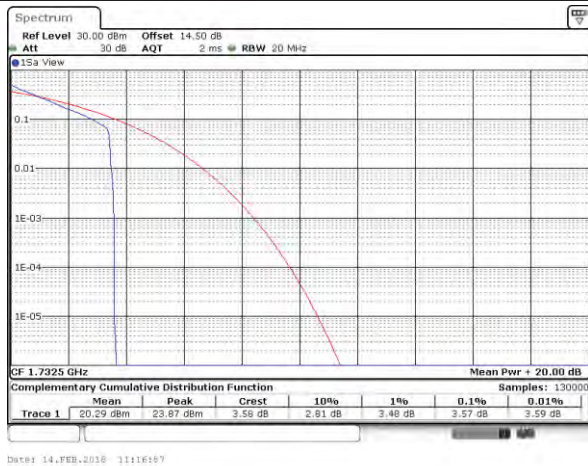
Lowest Channel / 1RB



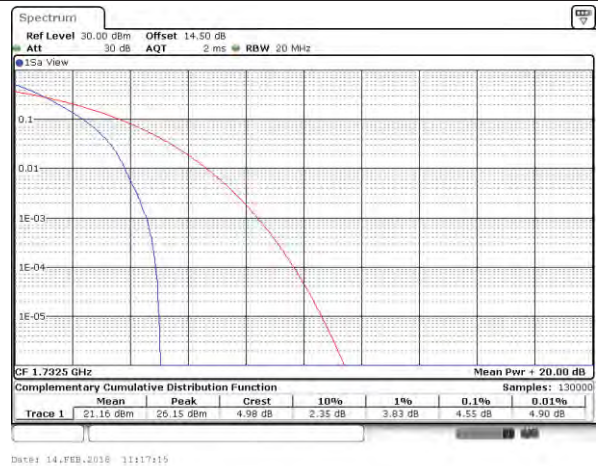
Lowest Channel / Full RB



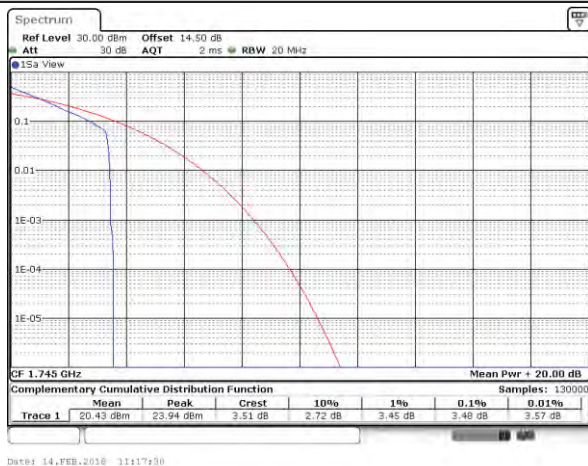
Middle Channel / 1RB



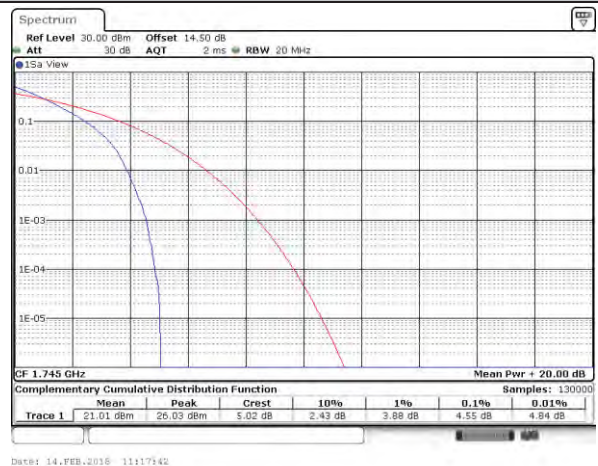
Middle Channel / Full RB



Highest Channel / 1RB



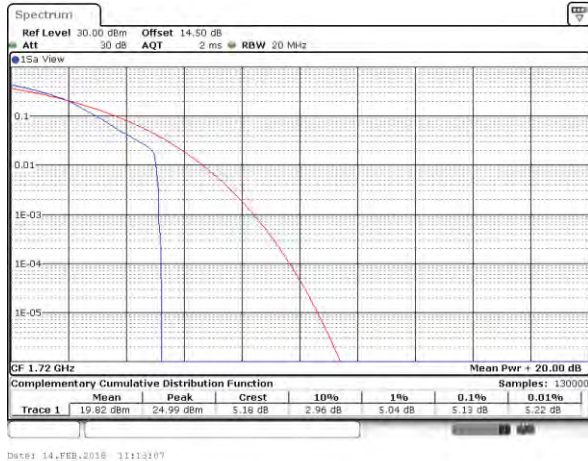
Highest Channel / Full RB



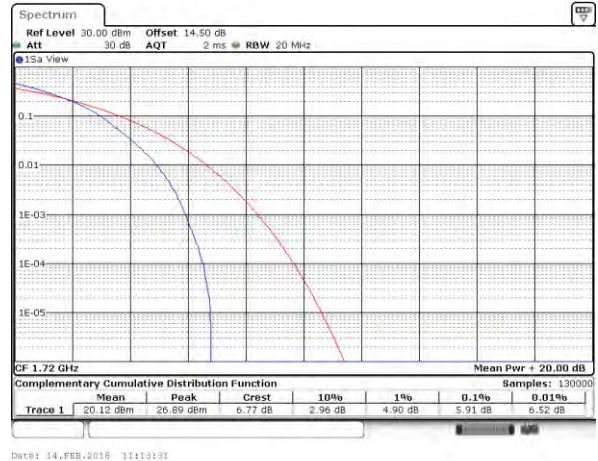


LTE Band 4 / 20MHz / 16QAM

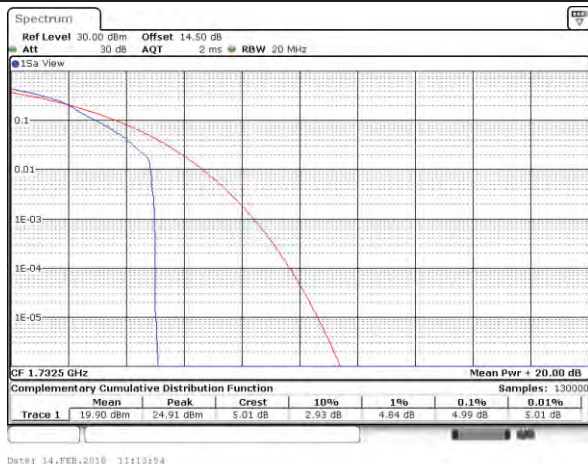
Lowest Channel / 1RB



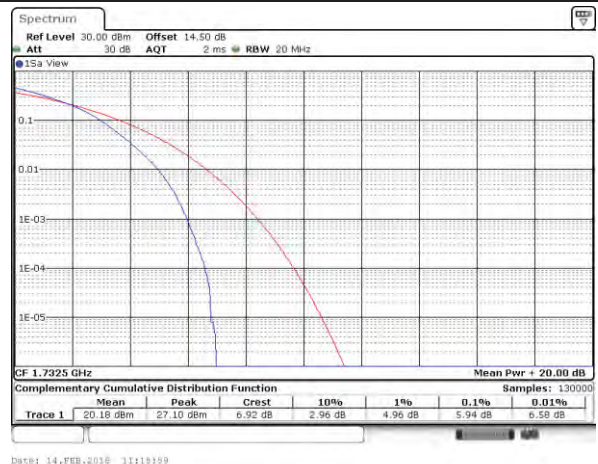
Lowest Channel / Full RB



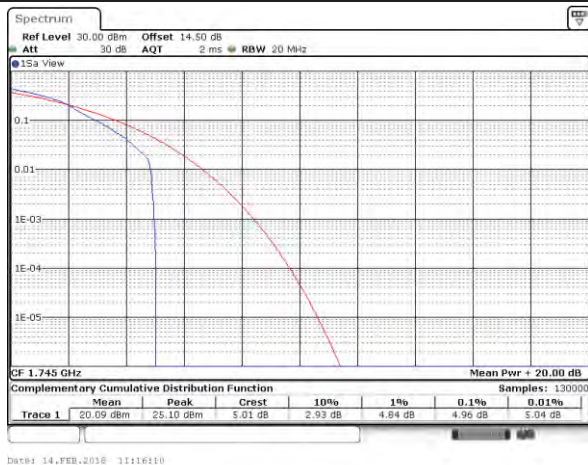
Middle Channel / 1RB



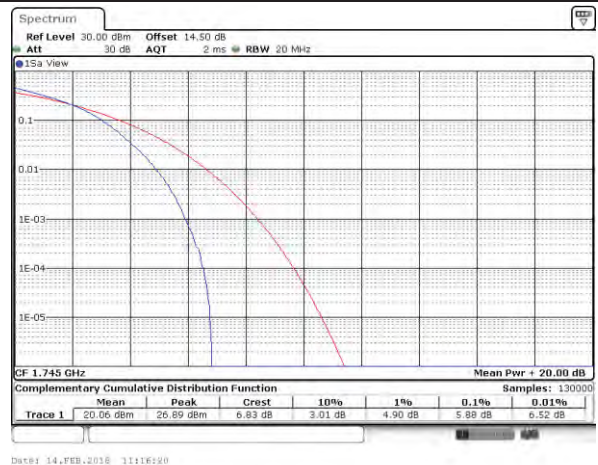
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





LTE Band 4 / 20MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



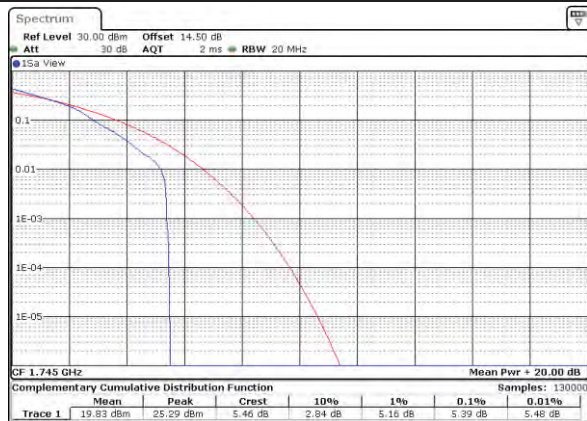
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



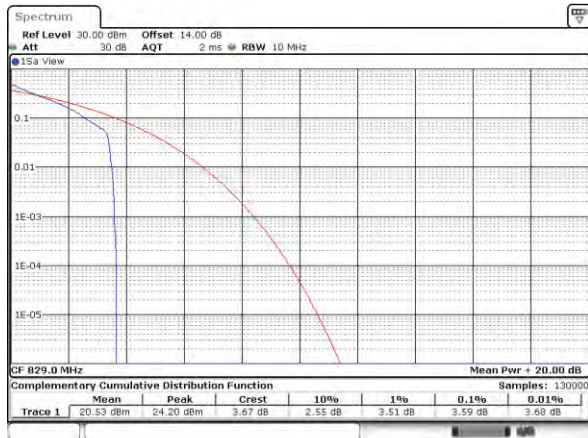
Highest Channel / Full RB



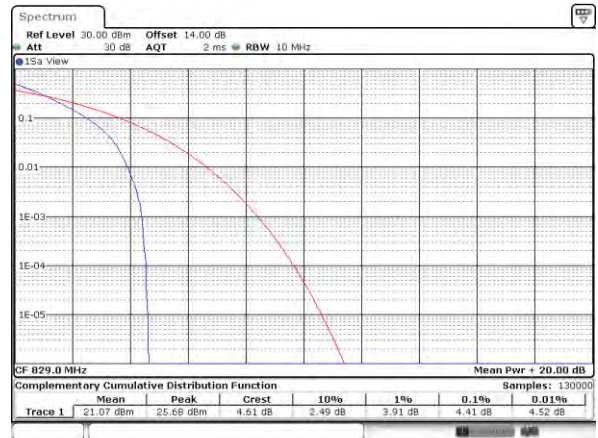


LTE Band 5 / 10MHz / QPSK

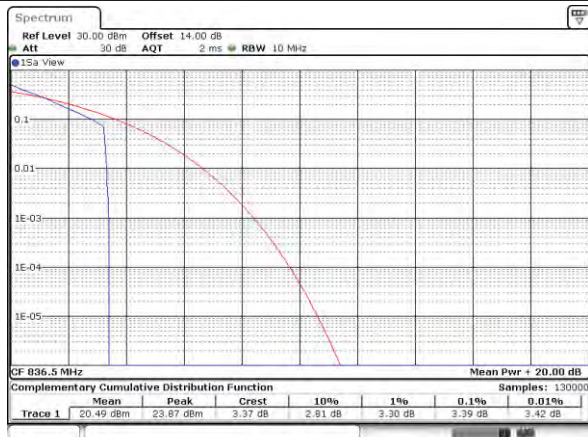
Lowest Channel / 1RB



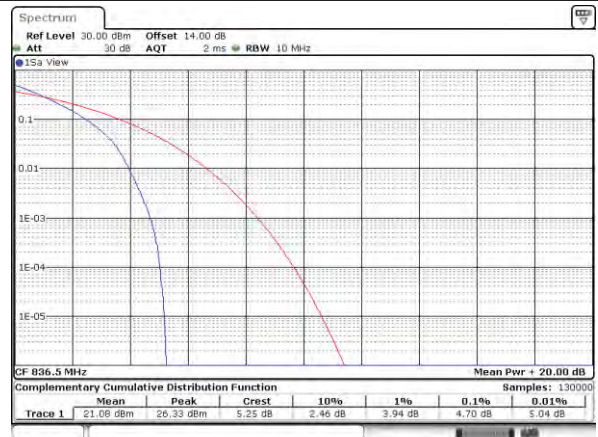
Lowest Channel / Full RB



Middle Channel / 1RB



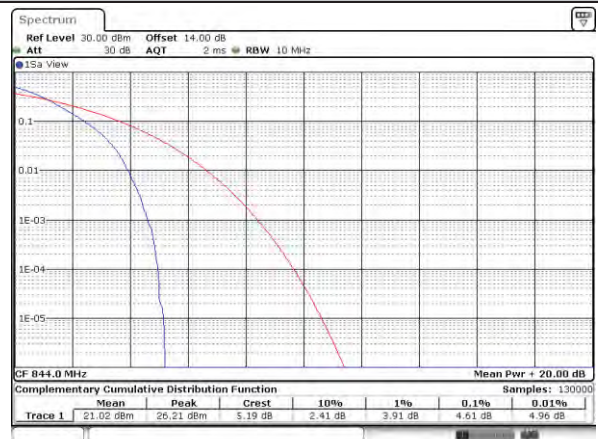
Middle Channel / Full RB



Highest Channel / 1RB



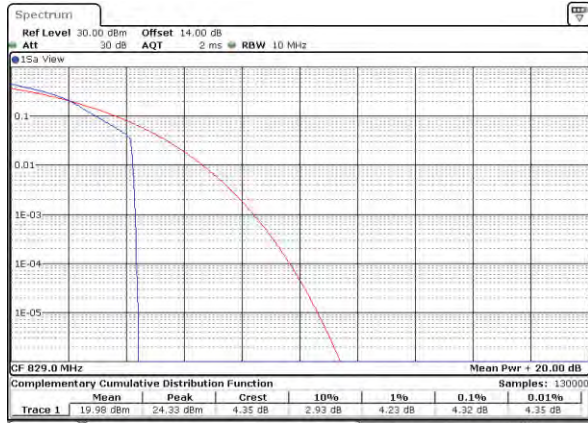
Highest Channel / Full RB





LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



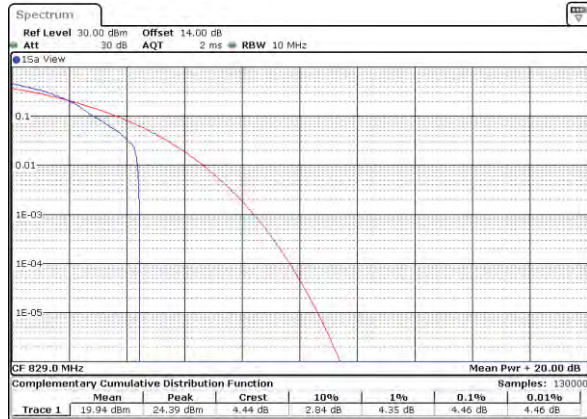
Highest Channel / Full RB



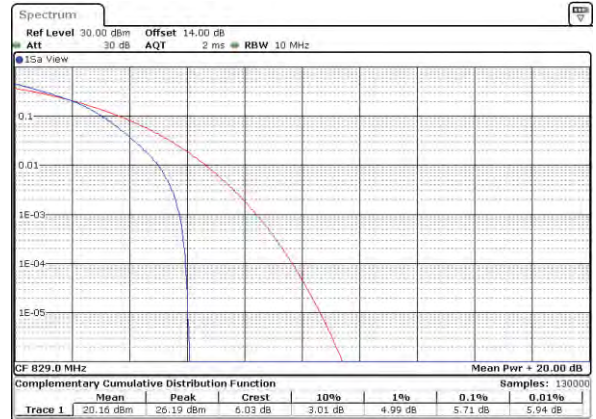


LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



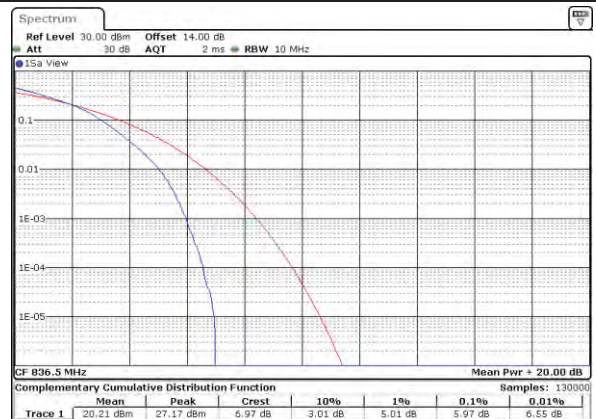
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

