



FCC RF Test Report

APPLICANT : OnePlus Technology (shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : GM1915
FCC ID : 2ABZ2-GM1915
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F),
27(H), 27(N)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 25, 2018 and completely tested on Mar. 08, 2019. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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.



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TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	6
1.1 Applicant	6
1.2 Manufacturer	6
1.3 Product Feature of Equipment Under Test	6
1.4 Product Specification of Equipment Under Test	7
1.5 Modification of EUT	9
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	9
1.7 Testing Location	17
1.8 Applicable Standards	17
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	18
2.1 Test Mode	18
2.2 Connection Diagram of Test System	23
2.3 Support Unit used in test configuration and system	23
2.4 Measurement Results Explanation Example	23
2.5 Frequency List of Low/Middle/High Channels	24
3 CONDUCTED TEST ITEMS	33
3.1 Measuring Instruments	33
3.2 Test Setup	33
3.3 Test Result of Conducted Test	33
3.4 Conducted Output Power and ERP/EIRP	34
3.5 Peak-to-Average Ratio	35
3.6 Occupied Bandwidth	36
3.7 Conducted Band Edge	37
3.8 Conducted Spurious Emission	39
3.9 Frequency Stability	40
4 RADIATED TEST ITEMS	41
4.1 Measuring Instruments	41
4.2 Test Setup	41
4.3 Test Result of Radiated Test	41
4.4 Radiated Spurious Emission	42
5 LIST OF MEASURING EQUIPMENT	43
6 UNCERTAINTY OF EVALUATION	45
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG8D2514-01B	Rev. 01	Initial issue of report	Mar. 21, 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)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS	-
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(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	< 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(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	< 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(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 18.94 dB at 7489.020 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	GM1915
FCC ID	2ABZ2-GM1915
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+/LTE 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 BR/EDR/LE GNSS/NFC
IMEI Code	Conducted: 864737040224448 for LTE B4 864737040224844 for LTE B2/B4/B12/B13/B17/B7/B7CA /B25/B26/B38/B41/B41CA/B66/B71 864737040224893 for LTE B5 Radiation: 864737040224034 for LTE B7/B7CA/B13/B17/B26/B38/B41/ B41CA/B66/B71 864737040228589 for LTE B2/B4/B5/B12/B25
HW Version	13
SW Version	9.5.1.GM31CB
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 13 : 779.5 MHz ~ 784.5 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 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 29 : 718.5 MHz ~ 726.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 46 : 5160 MHz ~ 5915 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 13 : 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 : 21.99 dBm LTE Band 4 : 22.40 dBm LTE Band 5 : 22.80 dBm LTE Band 7 : 21.15 dBm; Band 7C_CA: 21.14 dBm LTE Band 13 : 22.59 dBm LTE Band 12 : 23.42 dBm LTE Band 17 : 22.90 dBm LTE Band 25 : 21.86 dBm



	LTE Band 26 : 22.85 dBm LTE Band 38 : 20.80 dBm LTE Band 41 : 23.20 dBm; Band 41C_CA: 20.71 dBm LTE Band 66 : 22.39 dBm LTE Band 71 : 23.69 dBm Bottom Antenna: LTE Band 2 : 23.31 dBm LTE Band 4 : 23.72 dBm LTE Band 5 : 22.45 dBm LTE Band 7 : 23.25 dBm; Band 7C_CA: 23.25 dBm LTE Band 13 : 22.06 dBm LTE Band 12 : 23.01 dBm LTE Band 17 : 22.49 dBm LTE Band 25 : 23.18 dBm LTE Band 26 : 22.45 dBm LTE Band 38 : 22.97 dBm LTE Band 41 : 25.61 dBm; Band 41C_CA: 23.39 dBm LTE Band 66 : 23.73 dBm LTE Band 71 : 23.43 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 : -0.50 dBi LTE Band 12 : -2.00 dBi LTE Band 13 : -2.00 dBi LTE Band 17 : -2.00 dBi LTE Band 25 : -1.00 dBi LTE Band 26 : -2.00 dBi LTE Band 38 : -0.50 dBi LTE Band 41 : -0.50 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 7 : -0.50 dBi LTE Band 12 : -2.00 dBi LTE Band 13 : -2.00 dBi LTE Band 17 : -2.00 dBi LTE Band 25 : -0.50 dBi LTE Band 26 : -2.00 dBi LTE Band 38 : -0.50 dBi LTE Band 41 : -0.50 dBi LTE Band 66 : -0.50 dBi LTE Band 71 : -2.50 dBi
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain.



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)
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.1837	1M09W7D	-	0.1567
3	1851.5 ~ 1908.5	2M73G7D	-	0.1871	2M72W7D	-	0.1581
5	1852.5 ~ 1907.5	4M50G7D	-	0.1849	4M50W7D	-	0.1578
10	1855.0 ~ 1905.0	9M07G7D	0.0013	0.1884	9M05W7D	-	0.1581
15	1857.5 ~ 1902.5	13M4G7D	-	0.1892	13M5W7D	-	0.1626
20	1860.0 ~ 1900.0	18M4G7D	-	0.1910	18M4W7D	-	0.1629
LTE Band 2		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1850.7 ~ 1909.3	1M09W7D		-		0.1205	
3	1851.5 ~ 1908.5	2M73W7D		-		0.1219	
5	1852.5 ~ 1907.5	4M50W7D		-		0.1205	
10	1855.0 ~ 1905.0	9M03W7D		-		0.1227	
15	1857.5 ~ 1902.5	13M6W7D		-		0.1245	
20	1860.0 ~ 1900.0	18M5W7D		-		0.1247	
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)
1.4	1850.7 ~ 1914.3	1M09G7D	-	0.1493	1M10W7D	-	0.1262
3	1851.5 ~ 1913.5	2M72G7D	-	0.1791	2M72W7D	-	0.1489
5	1852.5 ~ 1912.5	4M50G7D	-	0.1770	4M50W7D	-	0.1510
10	1855.0 ~ 1910.0	9M07G7D	0.0018	0.1746	9M03W7D	-	0.1486
15	1857.5 ~ 1907.5	13M5G7D	-	0.1849	13M4W7D	-	0.1567
20	1860.0 ~ 1905.0	18M3G7D	-	0.1854	18M4W7D	-	0.1570
LTE Band 25		64QAM					



BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)	Maximum EIRP(W)		
1.4	1850.7 ~ 1914.3	1M09W7D		-	0.1140		
3	1851.5 ~ 1913.5	2M73W7D		-	0.1156		
5	1852.5 ~ 1912.5	4M49W7D		-	0.1151		
10	1855.0 ~ 1910.0	9M05W7D		-	0.1146		
15	1857.5 ~ 1907.5	13M6W7D		-	0.1199		
20	1860.0 ~ 1905.0	18M5W7D		-	0.1208		
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)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.2004	1M09W7D	-	0.1710
3	1711.5 ~ 1753.5	2M72G7D	-	0.2042	2M73W7D	-	0.1722
5	1712.5 ~ 1752.5	4M50G7D	-	0.2014	4M51W7D	-	0.1698
10	1715.0 ~ 1750.0	9M11G7D	0.0022	0.2000	9M05W7D	-	0.1683
15	1717.5 ~ 1747.5	13M5G7D	-	0.2051	13M5W7D	-	0.1770
20	1720.0 ~ 1745.0	18M5G7D	-	0.2099	18M5W7D	-	0.1778
LTE Band 4		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1710.7 ~ 1754.3	1M09W7D		-		0.1334	
3	1711.5 ~ 1753.5	2M73W7D		-		0.1358	
5	1712.5 ~ 1752.5	4M50W7D		-		0.1346	
10	1715.0 ~ 1750.0	9M07W7D		-		0.1346	
15	1717.5 ~ 1747.5	13M5W7D		-		0.1396	
20	1720.0 ~ 1745.0	18M5W7D		-		0.1422	
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)
1.4	824.7 ~ 848.3	1M09G7D	-	0.0716	1M09W7D	-	0.0607
3	825.5 ~ 847.5	2M73G7D	-	0.0731	2M73W7D	-	0.0619
5	826.5 ~ 846.5	4M50G7D	-	0.0714	4M50W7D	-	0.0611
10	829.0 ~ 844.0	9M03G7D	0.0027	0.0733	9M07W7D	-	0.0621
LTE Band 5		64QAM					



BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)	Maximum ERP(W)		
1.4	824.7 ~ 848.3	1M09W7D		-	0.0478		
3	825.5 ~ 847.5	2M74W7D		-	0.0489		
5	826.5 ~ 846.5	4M49W7D		-	0.0480		
10	829.0 ~ 844.0	9M09W7D		-	0.0483		
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	4M50G7D	-	0.1845	4M50W7D	-	0.1563
10	2505.0 ~ 2565.0	9M05G7D	0.0006	0.1807	9M03W7D	-	0.1524
15	2507.5 ~ 2562.5	13M5G7D	-	0.1875	13M5W7D	-	0.1607
20	2510.0 ~ 2560.0	18M4G7D	-	0.1884	18M4W7D	-	0.1574
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		-	0.1239		
10	2505.0 ~ 2565.0	9M07W7D		-	0.1219		
15	2507.5 ~ 2562.5	13M5W7D		-	0.1271		
20	2510.0 ~ 2560.0	18M4W7D		-	0.1268		
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)
1.4	699.7 ~ 715.3	1M10G7D	-	0.0830	1M10W7D	-	0.0700
3	700.5 ~ 714.5	2M72G7D	-	0.0841	2M72W7D	-	0.0710
5	701.5 ~ 713.5	4M50G7D	-	0.0834	4M50W7D	-	0.0706
10	704.0 ~ 711.0	9M07G7D	0.0030	0.0845	9M05W7D	-	0.0710
LTE Band 12		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)	Maximum ERP(W)		
1.4	699.7 ~ 715.3	1M09W7D		-	0.0552		
3	700.5 ~ 714.5	2M74W7D		-	0.0561		
5	701.5 ~ 713.5	4M50W7D		-	0.0556		
10	704.0 ~ 711.0	9M05W7D		-	0.0552		



LTE Band 13		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)
5	779.5 ~ 784.5	4M50G7D	-	0.0690	4M50W7D	-	0.0589
10	782.0	9M07G7D	0.0078	0.0698	9M01W7D	-	0.0583
LTE Band 13		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
5	779.5 ~ 784.5	4M49W7D		-		0.0461	
10	782.0	9M03W7D		-		0.0458	
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)
5	706.5 ~ 713.5	4M51G7D	-	0.0748	4M51W7D	-	0.0630
10	709.0 ~ 711.0	9M03G7D	0.0030	0.0750	9M05W7D	-	0.0622
LTE Band 17		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
5	706.5 ~ 713.5	4M49W7D		-		0.0500	
10	709.0 ~ 711.0	9M03W7D		-		0.0493	
LTE Band 26		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)
1.4	824.7 ~ 848.3	1M10G7D	-	0.0705	1M09W7D	-	0.0600
3	825.5 ~ 847.5	2M73G7D	-	0.0713	2M72W7D	-	0.0605
5	826.5 ~ 846.5	4M49G7D	-	0.0708	4M51W7D	-	0.0600
10	829.0 ~ 844.0	9M13G7D	0.0027	0.0713	9M05W7D	-	0.0612
15	831.5 ~ 841.5	13M5G7D	-	0.0741	13M4W7D	-	0.0622
CH26765	821.5	13M5G7D	-	0.0719	13M4W7D	-	0.0619
LTE Band 26		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	824.7 ~ 848.3	1M09W7D		-		0.0482	
3	825.5 ~ 847.5	2M73W7D		-		0.0484	



5	826.5 ~ 846.5	4M50W7D			-	0.0476	
10	829.0 ~ 844.0	9M07W7D			-	0.0483	
15	831.5 ~ 841.5	13M4W7D			-	0.0498	
CH26765	821.5	13M5W7D			-	0.0482	
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	4M50G7D	-	0.1706	4M50W7D	-	0.1452
10	2575.0 ~ 2615.0	9M13G7D	0.0011	0.1675	9M03W7D	-	0.1429
15	2577.5 ~ 2612.5	13M5G7D	-	0.1758	13M5W7D	-	0.1472
20	2580.0 ~ 2610.0	18M5G7D	-	0.1766	18M4W7D	-	0.1466
LTE Band 38		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2572.5 ~ 2617.5	4M49W7D		-		0.1099	
10	2575.0 ~ 2615.0	9M05W7D		-		0.1059	
15	2577.5 ~ 2612.5	13M5W7D		-		0.1119	
20	2580.0 ~ 2610.0	18M5W7D		-		0.1102	
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	4M50G7D	-	0.3062	4M50W7D	-	0.2576
10	2501.0 ~ 2685.0	9M01G7D	0.0041	0.3020	9M05W7D	-	0.2570
15	2503.5 ~ 2682.5	13M5G7D	-	0.3236	13M4W7D	-	0.2710
20	2506.0 ~ 2680.0	18M4G7D	-	0.3243	18M4W7D	-	0.2673
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		-		0.2061	
10	2501.0 ~ 2685.0	9M07W7D		-		0.2032	
15	2503.5 ~ 2682.5	13M5W7D		-		0.2113	
20	2506.0 ~ 2680.0	18M3W7D		-		0.2113	
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)
1.4	1710.7 ~ 1779.3	1M10G7D	-	0.1982	1M09W7D	-	0.1667
3	1711.5 ~ 1778.5	2M73G7D	-	0.2018	2M72W7D	-	0.1714
5	1712.5 ~ 1777.5	4M49G7D	-	0.2009	4M49W7D	-	0.1690
10	1715.0 ~ 1775.0	9M09G7D	0.0029	0.1968	9M03W7D	-	0.1679
15	1717.5 ~ 1772.5	13M4G7D	-	0.2084	13M5W7D	-	0.1742
20	1720.0 ~ 1770.0	18M5G7D	-	0.2104	18M5W7D	-	0.1754
LTE Band 66		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1710.7 ~ 1779.3	1M09W7D		-		0.1324	
3	1711.5 ~ 1778.5	2M73W7D		-		0.1343	
5	1712.5 ~ 1777.5	4M50W7D		-		0.1330	
10	1715.0 ~ 1775.0	9M03W7D		-		0.1306	
15	1717.5 ~ 1772.5	13M4W7D		-		0.1396	
20	1720.0 ~ 1770.0	18M4W7D		-		0.1380	
LTE Band 71		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	665.5 ~ 695.5	4M51G7D	-	0.0778	4M50W7D	-	0.0622
10	668.0 ~ 693.0	9M09G7D	0.0027	0.0773	9M03W7D	-	0.0643
15	670.5 ~ 690.5	13M5G7D	-	0.0800	13M5W7D	-	0.0678
20	673.0 ~ 688.0	18M4G7D	-	0.0802	18M4W7D	-	0.0682
LTE Band 71		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	665.5 ~ 695.5	4M50W7D		-		0.0499	
10	668.0 ~ 693.0	9M03W7D		-		0.0513	
15	670.5 ~ 690.5	13M4W7D		-		0.0525	
20	673.0 ~ 688.0	18M4W7D		-		0.0531	



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	-	0.1589	27M9W7D	-	0.1343
15MHz+15MHz	28M5G7D	-	0.1879	28M7W7D	-	0.1507
15MHz+20MHz	32M9G7D	-	0.1879	32M8W7D	-	0.1531
15MHz+10MHz	23M5G7D	-	0.1875	23M4W7D	-	0.1538
20MHz+10MHz	28M1G7D	-	0.1845	29M9W7D	-	0.1574
20MHz+15MHz	33M0G7D	-	0.1884	32M9W7D	-	0.1560
20MHz+20MHz	37M6G7D	-	0.1738	37M8W7D	-	0.1734
LTE Band 7 CA		64QAM				
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP(W)		
10MHz+20MHz	28M0W7D	-		0.1045		
15MHz+15MHz	28M5W7D	-		0.1059		
15MHz+20MHz	32M7W7D	-		0.1114		
15MHz+10MHz	23M5W7D	-		0.1086		
20MHz+10MHz	28M0W7D	-		0.1072		
20MHz+15MHz	32M8W7D	-		0.1114		
20MHz+20MHz	37M6W7D	-		0.1303		
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	23M2G7D	-	0.1871	23M2W7D	-	0.1531
10MHz+20MHz	28M0G7D	-	0.1897	28M1W7D	-	0.1531
10MHz+15MHz	23M6G7D	-	0.1888	23M4W7D	-	0.1563
15MHz+15MHz	28M8G7D	-	0.1888	28M6W7D	-	0.1521
15MHz+20MHz	32M9G7D	-	0.1888	32M9W7D	-	0.1538
15MHz+10MHz	23M5G7D	-	0.1884	23M5W7D	-	0.1535
20MHz+5MHz	23M4G7D	-	0.1888	23M4W7D	-	0.1596
20MHz+10MHz	28M1G7D	-	0.1897	28M1W7D	-	0.1578
20MHz+15MHz	33M0G7D	-	0.1871	32M8W7D	-	0.1581
20MHz+20MHz	38M0G7D	-	0.1945	37M8W7D	-	0.1578



LTE Band 41 CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5MHz+20MHz	23M3W7D	-	0.0995
10MHz+20MHz	28M1W7D	-	0.0966
10MHz+15MHz	23M5W7D	-	0.0984
15MHz+15MHz	28M6W7D	-	0.0957
15MHz+20MHz	32M8W7D	-	0.0982
15MHz+10MHz	23M5W7D	-	0.0979
20MHz+5MHz	23M3W7D	-	0.1028
20MHz+10MHz	28M1W7D	-	0.1026
20MHz+15MHz	32M8W7D	-	0.1007
20MHz+20MHz	37M9W7D	-	0.1285

1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0).

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 designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN5018	337463

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 designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN5019	577730
	03CH02-SZ		
	03CH04-SZ		

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(F), 27(H), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ 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, 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 v03r01 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
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v		-	-	v	v	v	v	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
	38	-	-	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
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	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
	12				v	-	-	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v	v	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
	26				v		-	v	v	v	v		v	v	v	v
	38	-	-				v	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
	66						v	v	v	v	v		v	v	v	v



	71	-	-				v	v	v	v	v		v	v	v	v
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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	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
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v		-	-	v	v	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
	38	-	-	v	v	v	v	v	v	v			v	v	v	v
	41	-	-	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
	71	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	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
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v		-	-	v	v	v	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
	38	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	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
	71	-	-	v	v	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
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
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	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
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	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
	71	-	-	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	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	17	-	-		v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	
	38	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
	66				v			v					v		v	
	71	-	-		v			v					v		v	

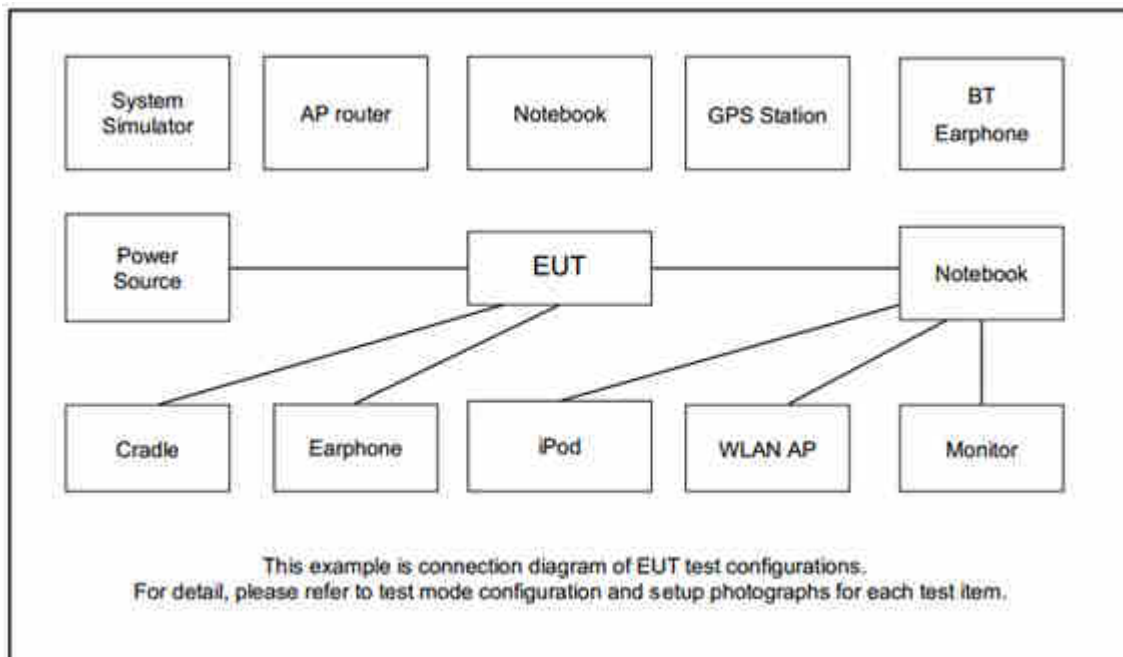


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPS K	16QA M	64QA M	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	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
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	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
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	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
	12	v	v	v	v			v			v			v	v	v
	13	-	-	v		-	-	v			v			v	v	v
					v			v			v				v	
	17	-	-	v	v	-	-	v			v			v	v	v
	25	v	v	v	v	v	v	v			v			v	v	v
	26	v	v	v	v	v	-	v			v			v	v	v
	38	-	-	v	v	v	v	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
	66	v	v	v	v	v	v	v			v			v	v	v
	71	-	-	v	v	v	v	v			v			v	v	v
Note	- The mark "v" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - 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	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	41C_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

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 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.5 + 10 = 14.5 \text{ (dB)}
 \end{aligned}$$



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 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

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	133372	133297	133447
	Frequency	665.5	680.5	695.5
15	Channel	133622	133297	133422
	Frequency	668.0	680.5	693.0
10	Channel	133872	133297	133397
	Frequency	670.5	680.5	690.5
5	Channel	134122	133297	133372
	Frequency	673.0	680.5	688.0



LTE Band 7C_CA Channel and Frequency List					
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 41C_CA 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 41C_CA 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

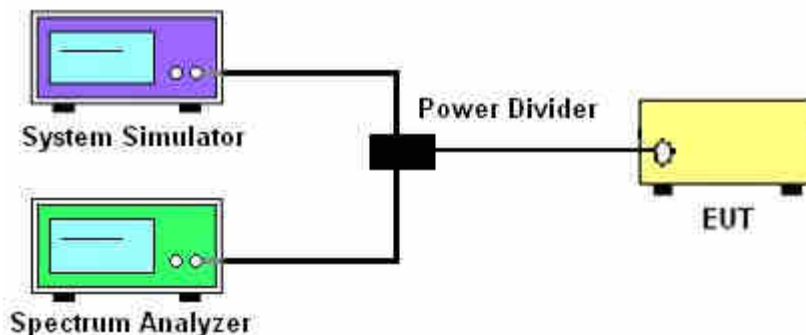
See list of measuring instruments of this test report.

3.2 Test Setup

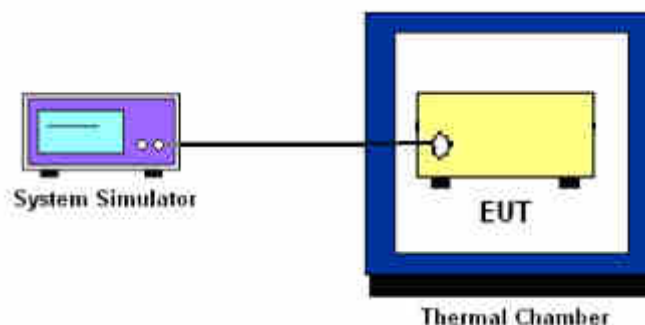
3.2.1 Conducted Output Power



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 13 and 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 testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. 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

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. 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

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. 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 (c)

For operations in the 776-788 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 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 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

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

Example:

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

$$= P(W) - [43 + 10 \log (P)] \text{ (dB)}$$

$$= [30 + 10 \log (P)] \text{ (dBm)} - [43 + 10 \log (P)] \text{ (dB)} = -13 \text{ dBm.}$$

10. 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

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Offset has included the duty factor for LTE Band 38/41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[43 + 10 \log (P)]$ (dB)
 $= -13$ dBm.
12. For Band 7, 38, 41
The limit line is derived from $55 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[55 + 10 \log (P)]$ (dB)
 $= -25$ dBm.

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

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

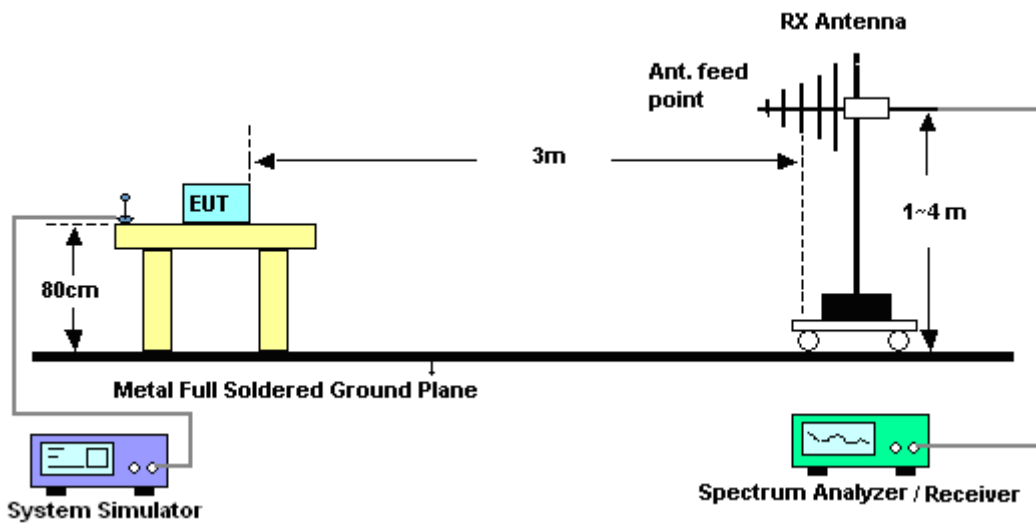
4 Radiated Test Items

4.1 Measuring Instruments

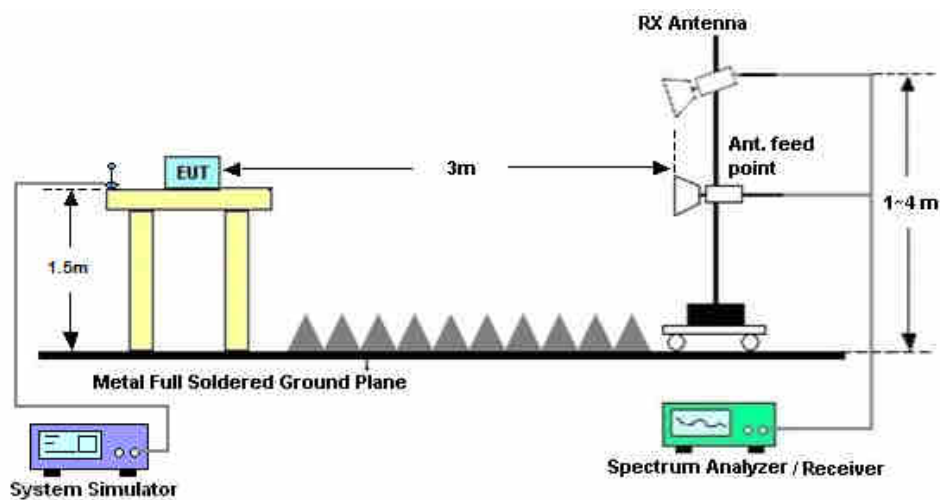
See list of measuring instruments of this test report.

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 C63.26. 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.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. 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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

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



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	10Hz~40GHz	Apr. 19, 2018	Jan. 28, 2019~ Mar. 08, 2019	Apr. 18, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 22, 2018	Jan. 28, 2019~ Mar. 08, 2019	Dec. 21, 2019	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Aug. 30, 2018	Feb. 25, 2019	Aug. 29, 2019	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jun. 05, 2018	Feb. 25, 2019	Jun. 04, 2019	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jun. 28, 2018	Feb. 25, 2019	Jun. 27, 2019	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Mar. 30, 2018	Feb. 25, 2019	Mar. 29, 2019	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2018	Feb. 25, 2019	Apr. 19, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30- 10P-R	1707137	1GHz~18GHz	Oct. 19, 2018	Feb. 25, 2019	Oct. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 17, 2018	Feb. 25, 2019	Jul. 16, 2019	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Feb. 25, 2019	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 25, 2019	NCR	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 10, 2018	Feb. 25, 2019	May 09, 2019	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120	9120D-1355	1GHz~18GHz	Mar. 29, 2018	Feb. 25, 2019	Mar. 28, 2019	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 30, 2018	Feb. 25, 2019	Jul. 29, 2019	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Mar. 30, 2018	Feb. 25, 2019	Mar. 29, 2019	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 20, 2018	Feb. 25, 2019	Oct. 19, 2019	Radiation (03CH02-SZ)
HF Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2018	Feb. 25, 2019	Oct. 19, 2019	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Feb. 25, 2019	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Feb. 25, 2019	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Feb. 25, 2019	NCR	Radiation (03CH02-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 28, 2018	Feb. 25, 2019	Aug. 27, 2019	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120	9120D-1355	1GHz~18GHz	Mar. 29, 2018	Feb. 25, 2019	Mar. 28, 2019	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Apr. 20 2018	Feb. 25, 2019	Apr. 19, 2019	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHZ	Oct. 18, 2018	Feb. 25, 2019	Oct. 17, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30- 10P-R	1989346	1GHz~18GHz	Jul. 30, 2018	Feb. 25, 2019	Jul. 29, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1988315	18GHz~40GHz	Jul. 26, 2018	Feb. 25, 2019	Jul. 25, 2019	Radiation (03CH04-SZ)



Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Apr. 19, 2018	Feb. 25, 2019	Apr. 18, 2019	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Feb. 25, 2019	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 25, 2019	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 25, 2019	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

03CH01-SZ:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.0 dB
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03CH02-SZ:

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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**03CH04-SZ:****Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)**

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

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

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

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.20	23.31	23.26
20	1	49		23.04	23.22	23.20
20	1	99		23.07	23.24	23.30
20	50	0		22.28	22.39	22.38
20	50	24		22.28	22.45	22.39
20	50	50		22.27	22.44	22.40
20	100	0		22.26	22.40	22.38
20	1	0	16-QAM	22.49	22.62	22.60
20	1	49		22.40	22.56	22.50
20	1	99		22.42	22.55	22.58
20	50	0		21.26	21.38	21.33
20	50	24		21.27	21.39	21.38
20	50	50		21.30	21.41	21.42
20	100	0		21.27	21.39	21.36
20	1	0	64-QAM	21.42	21.45	21.46
20	1	49		21.31	21.39	21.39
20	1	99		21.31	21.42	21.41
20	50	0		20.21	20.32	20.28
20	50	24		20.23	20.28	20.34
20	50	50		20.22	20.31	20.34
20	100	0		20.20	20.28	20.33
15	1	0	QPSK	23.23	23.27	23.23
15	1	37		23.10	23.27	23.23
15	1	74		23.22	23.24	23.27
15	36	0		22.24	22.36	22.32
15	36	20		22.25	22.40	22.36
15	36	39		22.27	22.39	22.40
15	75	0		22.26	22.37	22.37



15	1	0	16-QAM	22.55	22.61	22.57
15	1	37		22.43	22.59	22.57
15	1	74		22.54	22.58	22.59
15	36	0		21.22	21.36	21.30
15	36	20		21.25	21.38	21.35
15	36	39		21.22	21.37	21.38
15	75	0		21.26	21.36	21.36
15	1	0	64-QAM	21.44	21.42	21.44
15	1	37		21.30	21.45	21.44
15	1	74		21.36	21.41	21.43
15	36	0		20.21	20.27	20.25
15	36	20		20.20	20.30	20.30
15	36	39		20.19	20.30	20.31
15	75	0		20.16	20.25	20.25



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.01	23.08	23.25
10	1	25		23.04	23.19	23.03
10	1	49		22.99	23.11	23.07
10	25	0		22.29	22.27	22.20
10	25	12		22.17	22.28	22.27
10	25	25		22.11	22.23	22.24
10	50	0		22.13	22.24	22.22
10	1	0	16-QAM	22.27	22.37	22.49
10	1	25		22.35	22.45	22.40
10	1	49		22.32	22.37	22.42
10	25	0		21.13	21.26	21.19
10	25	12		21.14	21.25	21.08
10	25	25		21.09	21.21	21.22
10	50	0		21.11	21.23	21.22
10	1	0	64-QAM	21.16	21.18	21.39
10	1	25		21.22	21.32	21.23
10	1	49		21.19	21.26	21.23
10	25	0		20.04	20.16	20.14
10	25	12		20.05	20.17	20.18
10	25	25		19.99	20.12	20.12
10	50	0		20.05	20.15	20.13
5	1	0	QPSK	23.07	23.07	23.09
5	1	12		23.06	23.17	23.14
5	1	24		23.03	23.15	23.14
5	12	0		22.15	22.18	22.19
5	12	7		22.18	22.28	22.27
5	12	13		22.17	22.28	22.25
5	25	0		22.16	22.18	22.23
5	1	0	16-QAM	22.35	22.39	22.40
5	1	12		22.38	22.48	22.44
5	1	24		22.38	22.46	22.44
5	12	0		21.15	21.17	21.18
5	12	7		21.16	21.29	21.29



5	12	13		21.14	21.28	21.28
5	25	0		21.16	21.20	21.22
5	1	0	64-QAM	21.22	21.23	21.27
5	1	12		21.26	21.31	21.30
5	1	24		21.22	21.28	21.28
5	12	0		20.13	20.14	20.14
5	12	7		20.16	20.26	20.21
5	12	13		19.99	20.26	20.20
5	25	0		20.07	20.08	20.15



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.06	23.06	23.08
3	1	8		23.12	23.22	23.21
3	1	14		23.09	23.02	23.16
3	8	0		22.14	22.16	22.20
3	8	4		22.16	22.27	22.25
3	8	7		22.36	22.26	22.28
3	15	0		22.18	22.23	22.27
3	1	0	16-QAM	22.30	22.37	22.37
3	1	8		22.42	22.49	22.48
3	1	14		22.33	22.48	22.43
3	8	0		21.22	21.06	21.27
3	8	4		21.22	21.31	21.31
3	8	7		21.21	21.33	21.30
3	15	0		21.18	21.23	21.26
3	1	0	64-QAM	21.21	21.21	21.22
3	1	8		21.33	21.36	21.34
3	1	14		21.26	21.29	21.29
3	8	0		20.05	20.09	20.17
3	8	4		20.18	20.22	20.22
3	8	7		20.13	20.20	20.20
3	15	0		20.09	20.10	20.15
1.4	1	0	QPSK	22.97	23.05	22.98
1.4	1	3		23.08	23.14	23.12
1.4	1	5		23.01	23.08	23.05
1.4	3	0		23.00	23.06	23.06
1.4	3	1		23.05	23.11	23.10
1.4	3	3		23.03	23.11	23.08
1.4	6	0		22.09	22.18	22.17
1.4	1	0	16-QAM	22.24	22.20	22.30
1.4	1	3		22.39	22.45	22.42
1.4	1	5		22.33	22.39	22.36
1.4	3	0		22.08	22.17	22.09
1.4	3	1		22.11	22.22	22.17



1.4	3	3		22.07	22.01	22.14
1.4	6	0		21.16	21.25	21.19
1.4	1	0	64-QAM	21.18	21.20	21.17
1.4	1	3		21.22	21.31	21.24
1.4	1	5		21.18	21.24	21.20
1.4	3	0		21.15	21.21	21.15
1.4	3	1		21.24	21.25	21.25
1.4	3	3		21.18	21.22	21.16
1.4	6	0		20.03	20.07	20.07



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.09	23.18	23.10
20	1	49		22.96	23.11	23.00
20	1	99		22.93	23.03	22.98
20	50	0		22.12	22.20	22.13
20	50	24		22.15	22.25	22.16
20	50	50		22.14	22.26	22.15
20	100	0		22.10	22.21	22.15
20	1	0	16-QAM	22.38	22.46	22.38
20	1	49		22.27	22.42	22.34
20	1	99		22.24	22.39	22.35
20	50	0		21.11	21.21	21.14
20	50	24		21.14	21.23	21.17
20	50	50		21.11	21.23	21.17
20	100	0		21.09	21.20	21.17
20	1	0	64-QAM	21.26	21.32	21.27
20	1	49		21.15	21.22	21.15
20	1	99		21.12	21.20	21.09
20	50	0		20.02	20.07	20.05
20	50	24		20.04	20.14	20.06
20	50	50		20.03	20.12	20.05
20	100	0		19.99	20.08	20.01
15	1	0	QPSK	23.01	23.17	23.08
15	1	37		23.01	23.11	23.03
15	1	74		22.98	23.07	23.01
15	36	0		22.09	22.18	22.08
15	36	20		22.13	22.26	22.17
15	36	39		22.11	22.22	22.17
15	75	0		22.11	22.22	22.16
15	1	0	16-QAM	22.30	22.45	22.41
15	1	37		22.33	22.43	22.32
15	1	74		22.32	22.40	22.36
15	36	0		21.08	21.18	21.10
15	36	20		21.11	21.23	21.17



15	36	39		21.07	21.18	21.14
15	75	0		21.09	21.20	21.15
15	1	0	64-QAM	21.09	21.29	21.21
15	1	37		21.13	21.22	21.14
15	1	74		21.15	21.18	21.22
15	36	0		20.04	20.12	20.02
15	36	20		20.06	20.13	20.06
15	36	39		20.01	20.13	20.04
15	75	0		19.98	20.11	20.02



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.87	22.91	22.83
10	1	25		22.82	22.92	22.80
10	1	49		22.77	22.86	22.77
10	25	0		21.98	22.02	21.94
10	25	12		21.98	22.06	21.96
10	25	25		21.95	22.04	21.96
10	50	0		21.97	22.03	21.96
10	1	0	16-QAM	22.19	22.22	22.16
10	1	25		22.07	22.21	22.09
10	1	49		22.12	22.18	22.10
10	25	0		20.92	21.03	20.95
10	25	12		20.94	21.06	20.96
10	25	25		20.92	21.03	20.96
10	50	0		20.94	21.03	20.94
10	1	0	64-QAM	21.02	21.09	20.90
10	1	25		20.91	21.03	20.94
10	1	49		20.96	20.96	20.98
10	25	0		19.85	19.91	19.82
10	25	12		19.89	19.94	19.84
10	25	25		19.84	19.95	19.82
10	50	0		19.84	19.89	19.86
5	1	0	QPSK	22.85	22.83	22.73
5	1	12		22.89	22.97	22.86
5	1	24		22.93	22.98	22.84
5	12	0		21.96	21.94	21.84
5	12	7		22.03	22.08	21.90
5	12	13		22.00	22.07	21.96
5	25	0		22.00	22.00	21.91
5	1	0	16-QAM	22.15	22.14	22.03
5	1	12		22.22	22.23	22.13
5	1	24		22.20	22.29	22.13
5	12	0		20.96	20.95	20.86
5	12	7		21.03	21.08	20.95



5	12	13		21.02	21.07	21.00
5	25	0		20.99	21.00	20.89
5	1	0	64-QAM	21.00	20.95	20.87
5	1	12		21.02	21.08	20.94
5	1	24		21.04	21.11	21.00
5	12	0		19.87	19.89	19.77
5	12	7		19.97	19.99	19.88
5	12	13		19.96	20.03	19.90
5	25	0		19.89	19.88	19.77



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.98	22.80	22.70
3	1	8		22.94	23.03	22.89
3	1	14		22.90	22.93	22.86
3	8	0		21.81	21.94	21.86
3	8	4		21.97	22.10	21.89
3	8	7		21.96	22.05	21.86
3	15	0		21.88	22.00	21.90
3	1	0	16-QAM	21.92	22.12	21.93
3	1	8		21.90	22.19	21.89
3	1	14		21.95	22.23	21.89
3	8	0		20.93	20.99	20.91
3	8	4		20.86	21.12	20.94
3	8	7		20.99	21.10	20.88
3	15	0		20.90	20.99	20.87
3	1	0	64-QAM	20.97	20.93	20.81
3	1	8		21.13	21.12	21.09
3	1	14		21.02	21.06	21.01
3	8	0		19.87	19.92	19.76
3	8	4		19.93	20.02	19.91
3	8	7		19.92	19.99	19.89
3	15	0		19.91	19.91	19.86
1.4	1	0	QPSK	22.05	22.12	22.12
1.4	1	3		22.18	22.24	22.20
1.4	1	5		22.09	22.17	22.10
1.4	3	0		22.08	22.15	22.18
1.4	3	1		22.16	22.16	22.20
1.4	3	3		22.12	22.17	22.11
1.4	6	0		21.22	21.22	21.29
1.4	1	0	16-QAM	21.36	21.41	21.41
1.4	1	3		21.47	21.51	21.49
1.4	1	5		21.42	21.40	21.32
1.4	3	0		21.16	21.20	21.24
1.4	3	1		21.25	21.21	21.25



1.4	3	3		21.15	21.22	21.16
1.4	6	0		20.28	20.27	20.34
1.4	1	0	64-QAM	20.92	20.99	20.79
1.4	1	3		21.02	21.01	20.95
1.4	1	5		20.97	20.94	20.93
1.4	3	0		20.99	21.00	20.81
1.4	3	1		21.02	21.07	20.88
1.4	3	3		20.97	21.02	20.93
1.4	6	0		19.84	19.87	19.70



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.58	23.72	23.70
20	1	49		23.50	23.60	23.63
20	1	99		23.45	23.56	23.55
20	50	0		22.61	22.73	22.72
20	50	24		22.65	22.73	22.76
20	50	50		22.64	22.77	22.76
20	100	0		22.62	22.76	22.75
20	1	0	16-QAM	22.90	22.95	23.00
20	1	49		22.74	22.85	22.86
20	1	99		22.79	22.85	22.81
20	50	0		21.63	21.75	21.76
20	50	24		21.64	21.75	21.76
20	50	50		21.60	21.71	21.71
20	100	0		21.60	21.70	21.71
20	1	0	64-QAM	21.77	21.90	22.03
20	1	49		21.67	21.82	21.94
20	1	99		21.69	21.84	21.82
20	50	0		20.64	20.77	20.79
20	50	24		20.64	20.79	20.77
20	50	50		20.62	20.74	20.72
20	100	0		20.63	20.74	20.74
15	1	0	QPSK	23.48	23.60	23.62
15	1	37		23.54	23.60	23.58
15	1	74		23.47	23.59	23.56
15	36	0		22.57	22.74	22.73
15	36	20		22.62	22.76	22.73
15	36	39		22.57	22.73	22.69
15	75	0		22.58	22.73	22.72
15	1	0	16-QAM	22.82	22.92	22.98
15	1	37		22.73	22.93	22.91
15	1	74		22.77	22.87	22.86
15	36	0		21.59	21.73	21.70
15	36	20		21.60	21.73	21.73



15	36	39		21.56	21.70	21.66
15	75	0		21.58	21.71	21.70
15	1	0	64-QAM	21.78	21.93	21.95
15	1	37		21.68	21.91	21.85
15	1	74		21.66	21.90	21.83
15	36	0		20.61	20.79	20.74
15	36	20		20.64	20.78	20.74
15	36	39		20.60	20.76	20.71
15	75	0		20.58	20.73	20.71



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.30	23.51	23.42
10	1	25		23.38	23.50	23.46
10	1	49		23.25	23.42	23.33
10	25	0		22.47	22.60	22.59
10	25	12		22.47	22.61	22.57
10	25	25		22.40	22.56	22.49
10	50	0		22.47	22.58	22.53
10	1	0	16-QAM	22.71	22.74	22.70
10	1	25		22.67	22.76	22.73
10	1	49		22.59	22.76	22.64
10	25	0		21.47	21.60	21.55
10	25	12		21.47	21.59	21.55
10	25	25		21.33	21.52	21.49
10	50	0		21.43	21.57	21.53
10	1	0	64QAM	21.63	21.75	21.79
10	1	25		21.63	21.78	21.72
10	1	49		21.53	21.75	21.58
10	25	0		20.47	20.62	20.60
10	25	12		20.47	20.63	20.58
10	25	25		20.39	20.55	20.50
10	50	0		20.45	20.58	20.56
5	1	0	QPSK	23.31	23.46	23.39
5	1	12		23.37	23.54	23.46
5	1	24		23.29	23.41	23.39
5	12	0		22.41	22.56	22.47
5	12	7		22.48	22.59	22.57
5	12	13		22.44	22.58	22.51
5	25	0		22.45	22.53	22.53
5	1	0	16-QAM	22.57	22.75	22.69
5	1	12		22.67	22.80	22.73
5	1	24		22.44	22.72	22.67
5	12	0		21.47	21.53	21.48
5	12	7		21.49	21.61	21.55



5	12	13		21.47	21.60	21.49
5	25	0		21.47	21.53	21.53
5	1	0	64-QAM	21.52	21.73	21.68
5	1	12		21.60	21.79	21.70
5	1	24		21.51	21.69	21.57
5	12	0		20.48	20.59	20.54
5	12	7		20.53	20.64	20.60
5	12	13		20.49	20.65	20.54
5	25	0		20.44	20.56	20.54



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.24	23.41	23.38
3	1	8		23.46	23.60	23.57
3	1	14		23.32	23.45	23.36
3	8	0		22.46	22.52	22.45
3	8	4		22.50	22.62	22.52
3	8	7		22.47	22.62	22.55
3	15	0		22.50	22.61	22.51
3	1	0	16-QAM	22.51	22.66	22.60
3	1	8		22.76	22.86	22.83
3	1	14		22.59	22.69	22.57
3	8	0		21.50	21.63	21.50
3	8	4		21.52	21.68	21.55
3	8	7		21.53	21.64	21.56
3	15	0		21.50	21.60	21.49
3	1	0	64QAM	21.43	21.66	21.57
3	1	8		21.71	21.83	21.76
3	1	14		21.52	21.71	21.57
3	8	0		20.46	20.58	20.47
3	8	4		20.53	20.65	20.53
3	8	7		20.49	20.63	20.57
3	15	0		20.48	20.59	20.49
1.4	1	0	QPSK	23.21	23.36	23.34
1.4	1	3		23.39	23.52	23.44
1.4	1	5		23.30	23.46	23.36
1.4	3	0		23.30	23.39	23.37
1.4	3	1		23.36	23.44	23.41
1.4	3	3		23.30	23.47	23.36
1.4	6	0		22.40	22.51	22.48
1.4	1	0	16-QAM	22.51	22.66	22.60
1.4	1	3		22.68	22.83	22.66
1.4	1	5		22.59	22.70	22.61
1.4	3	0		22.38	22.46	22.42
1.4	3	1		22.41	22.53	22.48



1.4	3	3		22.38	22.54	22.41
1.4	6	0		21.46	21.58	21.53
1.4	1	0	64-QAM	21.43	21.63	21.61
1.4	1	3		21.60	21.75	21.64
1.4	1	5		21.54	21.68	21.59
1.4	3	0		21.52	21.61	21.56
1.4	3	1		21.57	21.67	21.62
1.4	3	3		21.54	21.74	21.55
1.4	6	0		20.41	20.52	20.47



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.61	22.80	22.76
10	1	25		22.63	22.61	22.65
10	1	49		22.65	22.64	22.60
10	25	0		21.76	21.84	21.82
10	25	12		21.77	21.86	21.83
10	25	25		21.73	21.79	21.77
10	50	0		21.75	21.86	21.82
10	1	0	16-QAM	21.88	22.03	22.08
10	1	25		21.93	21.97	21.91
10	1	49		21.92	21.93	21.91
10	25	0		20.77	20.86	20.83
10	25	12		20.78	20.85	20.84
10	25	25		20.74	20.81	20.77
10	50	0		20.78	20.84	20.82
10	1	0	64QAM	20.88	20.98	20.99
10	1	25		20.80	20.92	20.92
10	1	49		20.92	20.86	20.85
10	25	0		19.76	19.85	19.84
10	25	12		19.77	19.85	19.84
10	25	25		19.72	19.79	19.78
10	50	0		19.76	19.83	19.82
5	1	0	QPSK	22.56	22.59	22.61
5	1	12		22.63	22.69	22.68
5	1	24		22.65	22.67	22.69
5	12	0		21.64	21.78	21.75
5	12	7		21.80	21.89	21.87
5	12	13		21.78	21.88	21.87
5	25	0		21.76	21.83	21.84
5	1	0	16-QAM	21.82	21.89	21.86
5	1	12		21.94	21.99	22.01
5	1	24		21.92	21.94	21.98
5	12	0		20.66	20.79	20.76
5	12	7		20.80	20.91	20.90



5	12	13		20.80	20.87	20.87
5	25	0		20.76	20.86	20.85
5	1	0	64QAM	20.79	20.87	20.84
5	1	12		20.90	20.92	20.94
5	1	24		20.88	20.92	20.96
5	12	0		19.68	19.79	19.78
5	12	7		19.84	19.92	19.92
5	12	13		19.85	19.89	19.90
5	25	0		19.74	19.82	19.83



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.49	22.58	22.62
3	1	8		22.70	22.79	22.78
3	1	14		22.71	22.75	22.70
3	8	0		21.66	21.74	21.72
3	8	4		21.78	21.88	21.86
3	8	7		21.78	21.85	21.84
3	15	0	16-QAM	21.76	21.86	21.80
3	1	0		21.79	21.84	21.83
3	1	8		22.04	22.07	22.04
3	1	14		21.95	22.01	21.95
3	8	0		20.69	20.78	20.79
3	8	4		20.85	20.91	20.91
3	8	7	64QAM	20.82	20.94	20.87
3	15	0		20.79	20.85	20.79
3	1	0		20.73	20.80	20.80
3	1	8		20.96	20.99	21.04
3	1	14		20.97	20.96	20.98
3	8	0		19.68	19.79	19.77
3	8	4	QPSK	19.82	19.93	19.90
3	8	7		19.86	19.88	19.91
3	15	0		19.79	19.85	19.78
1.4	1	0		22.51	22.56	22.59
1.4	1	3		22.65	22.70	22.68
1.4	1	5		22.60	22.62	22.61
1.4	3	0	16-QAM	22.50	22.62	22.64
1.4	3	1		22.65	22.65	22.69
1.4	3	3		22.64	22.65	22.61
1.4	6	0		21.68	21.79	21.75
1.4	1	0		21.83	21.88	21.76
1.4	1	3		21.92	21.90	21.98
1.4	1	5	16-QAM	21.90	21.86	21.91
1.4	3	0		21.61	21.69	21.70
1.4	3	1		21.70	21.73	21.73



1.4	3	3		21.66	21.66	21.69
1.4	6	0		20.74	20.83	20.83
1.4	1	0	64QAM	20.76	20.87	20.83
1.4	1	3		20.87	20.91	20.94
1.4	1	5		20.82	20.89	20.89
1.4	3	0		20.71	20.80	20.80
1.4	3	1		20.86	20.84	20.87
1.4	3	3		20.82	20.86	20.83
1.4	6	0		19.68	19.76	19.72



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.85	22.67	22.70
15	1	37		22.72	22.63	22.72
15	1	74		22.74	22.69	22.67
15	36	0		21.83	21.78	21.89
15	36	20		21.92	21.82	21.91
15	36	39		21.79	21.75	21.80
15	75	0		21.86	21.78	21.85
15	1	0	16-QAM	22.04	22.00	22.09
15	1	37		21.99	21.92	22.03
15	1	74		21.99	22.04	21.94
15	36	0		20.84	20.78	20.86
15	36	20		20.86	20.83	20.88
15	36	39		20.78	20.75	20.79
15	75	0		20.79	20.79	20.85
15	1	0	64-QAM	21.02	20.94	21.12
15	1	37		20.95	20.89	21.01
15	1	74		20.96	20.95	20.95
15	36	0		19.99	19.90	20.01
15	36	20		20.02	19.92	20.03
15	36	39		19.94	19.84	19.94
15	75	0		19.96	19.84	19.99
10	1	0	QPSK	22.57	22.59	22.68
10	1	25		22.55	22.57	22.60
10	1	49		22.67	22.58	22.51
10	25	0		21.67	21.70	21.76
10	25	12		21.70	21.72	21.77
10	25	25		21.69	21.70	21.75
10	50	0		21.69	21.70	21.76
10	1	0	16-QAM	21.85	21.82	22.02
10	1	25		21.82	21.89	21.87
10	1	49		21.91	21.81	21.83
10	25	0		20.66	20.66	20.74
10	25	12		20.70	20.70	20.77
10	25	25		20.67	20.67	20.71



10	50	0	64-QAM	20.66	20.69	20.73
10	1	0		20.84	20.93	20.99
10	1	25		20.79	20.83	20.86
10	1	49		20.89	20.77	20.89
10	25	0		19.78	19.82	19.82
10	25	12		19.81	19.82	19.85
10	25	25		19.82	19.83	19.82
10	50	0		19.81	19.82	19.83



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.49	22.49	22.56
5	1	12		22.59	22.65	22.62
5	1	24		22.63	22.65	22.60
5	12	0		21.62	21.62	21.70
5	12	7		21.73	21.71	21.78
5	12	13		21.68	21.68	21.72
5	25	0		21.68	21.63	21.71
5	1	0	16-QAM	21.74	21.79	21.80
5	1	12		21.93	21.93	21.90
5	1	24		21.87	21.91	21.88
5	12	0		20.61	20.65	20.68
5	12	7		20.72	20.72	20.79
5	12	13		20.66	20.67	20.70
5	25	0		20.65	20.62	20.67
5	1	0	64-QAM	20.77	20.77	20.82
5	1	12		20.84	20.89	20.92
5	1	24		20.86	20.89	20.93
5	12	0		19.74	19.79	19.79
5	12	7		19.85	19.90	19.90
5	12	13		19.79	19.84	19.84
5	25	0		19.73	19.76	19.74
3	1	0	QPSK	22.49	22.50	22.60
3	1	8		22.68	22.67	22.66
3	1	14		22.59	22.58	22.50
3	8	0		21.60	21.64	21.73
3	8	4		21.69	21.71	21.76
3	8	7		21.66	21.67	21.72
3	15	0		21.71	21.68	21.77
3	1	0	16-QAM	21.78	21.79	21.84
3	1	8		21.91	21.97	21.96
3	1	14		21.78	21.81	21.82
3	8	0		20.69	20.69	20.75
3	8	4		20.73	20.78	20.80
3	8	7		20.70	20.72	20.74



3	15	0	64-QAM	20.72	20.65	20.74
3	1	0		20.71	20.78	20.86
3	1	8		20.94	21.00	20.98
3	1	14		20.81	20.86	20.81
3	8	0		19.74	19.79	19.83
3	8	4		19.82	19.86	19.84
3	8	7		19.77	19.83	19.79
3	15	0		19.77	19.76	19.79



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.49	22.49	22.53
1.4	1	3		22.61	22.63	22.58
1.4	1	5		22.50	22.53	22.46
1.4	3	0		22.52	22.54	22.53
1.4	3	1		22.59	22.56	22.59
1.4	3	3		22.57	22.57	22.55
1.4	6	0		21.63	21.62	21.69
1.4	1	0	16-QAM	21.75	21.76	21.79
1.4	1	3		21.89	21.93	21.88
1.4	1	5		21.76	21.80	21.77
1.4	3	0		21.58	21.59	21.58
1.4	3	1		21.69	21.64	21.64
1.4	3	3		21.59	21.60	21.61
1.4	6	0		20.70	20.66	20.73
1.4	1	0	64-QAM	20.69	20.76	20.84
1.4	1	3		20.92	20.98	20.96
1.4	1	5		20.79	20.84	20.79
1.4	3	0		20.57	20.62	20.66
1.4	3	1		20.65	20.69	20.67
1.4	3	3		20.60	20.66	20.62
1.4	6	0		19.75	19.74	19.77



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.92	23.13	23.14
20	1	49		22.90	23.16	23.16
20	1	99		23.22	23.24	23.25
20	50	0		22.21	22.34	22.35
20	50	24		22.19	22.33	22.33
20	50	50		22.15	22.33	22.28
20	100	0		22.16	22.31	22.32
20	1	0	16-QAM	22.22	22.40	22.41
20	1	49		22.22	22.40	22.47
20	1	99		22.34	22.44	22.47
20	50	0		21.01	21.30	21.26
20	50	24		21.07	21.32	21.31
20	50	50		21.13	21.33	21.26
20	100	0		21.05	21.27	21.28
20	1	0	64-QAM	21.07	21.45	21.44
20	1	49		21.08	21.46	21.46
20	1	99		21.21	21.41	21.53
20	50	0		19.98	20.36	20.36
20	50	24		20.06	20.37	20.36
20	50	50		20.12	20.38	20.35
20	100	0		20.04	20.35	20.36
15	1	0	QPSK	22.91	23.17	23.14
15	1	37		22.91	23.13	23.13
15	1	74		23.01	23.18	23.23
15	36	0		21.96	22.30	22.27
15	36	20		22.05	22.32	22.32
15	36	39		22.07	22.30	22.32
15	75	0		22.03	22.30	22.30
15	1	0	16-QAM	22.21	22.50	22.47
15	1	37		22.19	22.46	22.38
15	1	74		22.31	22.51	22.56
15	36	0		20.93	21.26	21.25
15	36	20		21.04	21.29	21.31



15	36	39		21.05	21.28	21.30
15	75	0		21.00	21.27	21.28
15	1	0	64-QAM	21.14	21.54	21.44
15	1	37		21.07	21.44	21.38
15	1	74		21.13	21.51	21.49
15	36	0		19.95	20.35	20.36
15	36	20		20.04	20.39	20.38
15	36	39		20.03	20.36	20.39
15	75	0		19.97	20.34	20.33



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.67	23.05	22.94
10	1	25		22.66	23.01	22.98
10	1	49		22.67	23.04	23.07
10	25	0		21.79	22.14	22.12
10	25	12		21.81	22.14	22.15
10	25	25		21.80	22.13	22.15
10	50	0		21.81	22.17	22.15
10	1	0	16-QAM	22.02	22.25	22.25
10	1	25		21.97	22.30	22.23
10	1	49		21.98	22.30	22.33
10	25	0		20.79	21.14	21.10
10	25	12		20.80	21.15	21.13
10	25	25		20.80	21.13	21.13
10	50	0		20.83	21.15	21.11
10	1	0	64-QAM	20.93	21.30	21.22
10	1	25		20.89	21.30	21.19
10	1	49		20.91	21.34	21.36
10	25	0		19.78	20.18	20.17
10	25	12		19.79	20.25	20.19
10	25	25		19.81	20.17	20.21
10	50	0		19.79	20.21	20.20
5	1	0	QPSK	22.89	22.95	22.92
5	1	12		22.98	23.11	23.10
5	1	24		22.91	23.08	23.16
5	12	0		22.03	22.08	22.08
5	12	7		22.09	22.19	22.27
5	12	13		21.85	22.24	22.25
5	25	0		21.82	22.14	22.20
5	1	0	16-QAM	22.01	22.26	22.23
5	1	12		22.05	22.38	22.39
5	1	24		22.08	22.32	22.44
5	12	0		20.75	21.08	21.10
5	12	7		20.86	21.16	21.24



5	12	13		20.86	21.21	21.24
5	25	0		20.83	21.14	21.20
5	1	0	64-QAM	20.95	21.27	21.23
5	1	12		21.00	21.43	21.39
5	1	24		20.97	21.39	21.40
5	12	0		19.85	20.14	20.19
5	12	7		19.89	20.28	20.33
5	12	13		19.89	20.30	20.33
5	25	0		19.82	20.19	20.24



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.16	23.24	23.28
10	1	25		23.21	23.30	23.27
10	1	49		23.27	23.42	23.36
10	25	0		22.39	22.43	22.42
10	25	12		22.41	22.44	22.44
10	25	25		22.43	22.47	22.45
10	50	0		22.44	22.46	22.45
10	1	0	16-QAM	22.50	22.54	22.46
10	1	25		22.45	22.51	22.55
10	1	49		22.64	22.62	22.66
10	25	0		21.41	21.44	21.44
10	25	12		21.44	21.50	21.46
10	25	25		21.41	21.49	21.42
10	50	0		21.44	21.47	21.45
10	1	0	64QAM	21.43	21.40	21.52
10	1	25		21.43	21.45	21.53
10	1	49		21.51	21.57	21.57
10	25	0		20.39	20.45	20.43
10	25	12		20.44	20.49	20.47
10	25	25		20.42	20.47	20.46
10	50	0		20.44	20.46	20.48
5	1	0	QPSK	23.16	23.21	23.18
5	1	12		23.29	23.36	23.36
5	1	24		23.32	23.34	23.34
5	12	0		22.35	22.40	22.36
5	12	7		22.46	22.51	22.47
5	12	13		22.43	22.47	22.44
5	25	0		22.43	22.45	22.36
5	1	0	16-QAM	22.43	22.48	22.50
5	1	12		22.54	22.64	22.58
5	1	24		22.54	22.62	22.56
5	12	0		21.36	21.40	21.38
5	12	7		21.47	21.53	21.47



5	12	13		21.44	21.47	21.44
5	25	0		21.42	21.49	21.37
5	1	0	64-QAM	21.36	21.45	21.46
5	1	12		21.55	21.60	21.58
5	1	24		21.50	21.60	21.51
5	12	0		20.39	20.44	20.41
5	12	7		20.48	20.56	20.53
5	12	13		20.51	20.53	20.49
5	25	0		20.43	20.48	20.38



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.15	23.23	23.23
3	1	8		23.33	23.39	23.40
3	1	14		23.23	23.29	23.33
3	8	0		22.33	22.39	22.37
3	8	4		22.45	22.50	22.47
3	8	7		22.40	22.46	22.44
3	15	0		22.44	22.50	22.44
3	1	0	16-QAM	22.43	22.50	22.45
3	1	8		22.66	22.66	22.62
3	1	14		22.57	22.56	22.52
3	8	0		21.39	21.47	21.43
3	8	4		21.53	21.56	21.51
3	8	7		21.45	21.52	21.48
3	15	0		21.44	21.52	21.46
3	1	0	64-QAM	21.43	21.47	21.45
3	1	8		21.61	21.64	21.53
3	1	14		21.52	21.58	21.48
3	8	0		20.35	20.46	20.41
3	8	4		20.49	20.58	20.51
3	8	7		20.44	20.51	20.44
3	15	0		20.41	20.50	20.47
1.4	1	0	QPSK	23.12	23.18	23.17
1.4	1	3		23.25	23.33	23.34
1.4	1	5		23.20	23.22	23.28
1.4	3	0		23.16	23.25	23.18
1.4	3	1		23.26	23.31	23.27
1.4	3	3		23.19	23.28	23.24
1.4	6	0		22.34	22.41	22.32
1.4	1	0	16-QAM	22.41	22.50	22.40
1.4	1	3		22.54	22.60	22.59
1.4	1	5		22.48	22.50	22.44
1.4	3	0		22.27	22.25	22.27
1.4	3	1		22.35	22.40	22.26



1.4	3	3		22.26	22.31	22.33
1.4	6	0		21.42	21.48	21.35
1.4	1	0	64-QAM	21.42	21.42	21.43
1.4	1	3		21.51	21.57	21.54
1.4	1	5		21.44	21.51	21.45
1.4	3	0		21.44	21.40	21.42
1.4	3	1		21.47	21.53	21.44
1.4	3	3		21.44	21.49	21.47
1.4	6	0		20.34	20.39	20.33



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.55	
10	1	25			22.59	
10	1	49			22.48	
10	25	0			21.70	
10	25	12			21.73	
10	25	25			21.72	
10	50	0			21.74	
10	1	0	16-QAM		21.71	
10	1	25			21.81	
10	1	49			21.74	
10	25	0			20.68	
10	25	12			20.70	
10	25	25			20.68	
10	50	0			20.71	
10	1	0	64-QAM		20.68	
10	1	25			20.76	
10	1	49			20.75	
10	25	0			19.69	
10	25	12			19.72	
10	25	25			19.68	
10	50	0			19.73	
5	1	0	QPSK	22.44	22.42	22.52
5	1	12		22.54	22.53	22.53
5	1	24		22.50	22.51	22.49
5	12	0		21.62	21.64	21.65
5	12	7		21.72	21.66	21.73
5	12	13		21.70	21.71	21.68
5	25	0		21.74	21.67	21.71
5	1	0	16-QAM	21.64	21.72	21.74
5	1	12		21.74	21.85	21.83
5	1	24		21.83	21.79	21.79
5	12	0		20.63	20.64	20.67
5	12	7		20.72	20.67	20.74



5	12	13	64QAM	20.71	20.69	20.68
5	25	0		20.73	20.66	20.69
5	1	0		20.59	20.64	20.73
5	1	12		20.74	20.79	20.76
5	1	24		20.78	20.76	20.71
5	12	0		19.67	19.70	19.63
5	12	7		19.76	19.72	19.74
5	12	13		19.75	19.75	19.74
5	25	0		19.74	19.66	19.71



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.74	22.90	22.76
10	1	25		22.80	22.78	22.75
10	1	49		22.75	22.74	22.79
10	25	0		21.64	21.64	21.65
10	25	12		21.85	21.86	21.85
10	25	25		21.60	21.59	21.59
10	50	0		21.64	21.66	21.61
10	1	0	16-QAM	22.01	22.04	22.04
10	1	25		22.05	22.09	22.08
10	1	49		22.04	22.00	22.04
10	25	0		20.63	20.64	20.64
10	25	12		20.84	20.85	20.81
10	25	25		20.60	20.58	20.57
10	50	0		20.62	20.62	20.61
10	1	0	64QAM	20.93	20.90	20.94
10	1	25		20.96	20.97	21.08
10	1	49		20.97	20.94	20.93
10	25	0		19.64	19.65	19.62
10	25	12		19.83	19.84	19.82
10	25	25		19.60	19.58	19.57
10	50	0		19.65	19.62	19.61
5	1	0	QPSK	22.54	22.57	22.53
5	1	12		22.83	22.89	22.84
5	1	24		22.67	22.66	22.65
5	12	0		21.78	21.79	21.79
5	12	7		21.98	21.97	21.89
5	12	13		21.88	21.88	21.83
5	25	0		21.88	21.83	21.79
5	1	0	16-QAM	21.74	21.81	21.82
5	1	12		22.05	22.14	22.08
5	1	24		21.92	21.90	21.85
5	12	0		20.80	20.82	20.80
5	12	7		20.98	20.98	20.86



5	12	13		20.89	20.87	20.82
5	25	0		20.86	20.84	20.79
5	1	0	64QAM	20.70	20.80	20.78
5	1	12		21.02	21.14	21.06
5	1	24		20.85	20.90	20.81
5	12	0		19.82	19.83	19.81
5	12	7		20.02	20.01	19.91
5	12	13		19.92	19.93	19.87
5	25	0		19.90	19.85	19.80



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.97	22.84	22.91
20	1	49		22.90	22.81	22.89
20	1	99		22.87	22.78	22.83
20	50	0		22.08	21.93	21.96
20	50	24		22.12	21.95	22.00
20	50	50		22.06	21.92	21.98
20	100	0		22.08	21.89	21.97
20	1	0	16-QAM	22.12	21.96	22.06
20	1	49		22.16	22.01	22.02
20	1	99		22.15	21.94	22.00
20	50	0		21.08	20.92	20.98
20	50	24		21.17	20.96	21.01
20	50	50		21.18	20.93	21.00
20	100	0		21.06	20.94	20.95
20	1	0	64QAM	20.84	20.69	20.77
20	1	49		20.90	20.73	20.78
20	1	99		20.92	20.71	20.73
20	50	0		20.22	20.01	20.08
20	50	24		20.24	20.05	20.10
20	50	50		20.22	20.04	20.07
20	100	0		20.23	20.01	20.06
15	1	0	QPSK	22.90	22.75	22.82
15	1	37		22.94	22.75	22.79
15	1	74		22.95	22.72	22.83
15	36	0		22.10	21.88	21.97
15	36	20		22.18	21.96	22.02
15	36	39		22.13	21.93	21.99
15	75	0		22.12	21.94	21.98
15	1	0	16-QAM	22.17	21.98	22.03
15	1	37		22.16	21.96	21.99
15	1	74		22.18	21.95	21.99
15	36	0		21.07	20.84	20.94
15	36	20		21.11	20.92	20.98
15	36	39		21.05	20.84	20.94



15	75	0	64QAM	21.14	20.92	20.99
15	1	0		20.90	20.75	20.82
15	1	37		20.91	20.68	20.74
15	1	74		20.99	20.70	20.79
15	36	0		20.17	19.96	20.04
15	36	20		20.22	20.00	20.09
15	36	39		20.16	19.97	20.04
15	75	0		20.21	20.00	20.07



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.65	22.49	22.62
10	1	25		22.74	22.56	22.63
10	1	49		22.72	22.54	22.64
10	25	0		21.92	21.72	21.87
10	25	12		21.95	21.72	21.86
10	25	25		21.95	21.74	21.87
10	50	0		21.97	21.77	21.91
10	1	0	16-QAM	21.93	21.77	21.86
10	1	25		22.05	21.81	21.89
10	1	49		21.98	21.78	21.85
10	25	0		20.94	20.74	20.88
10	25	12		20.97	20.77	20.91
10	25	25		20.96	20.74	20.88
10	50	0		20.95	20.76	20.89
10	1	0	64QAM	20.66	20.53	20.64
10	1	25		20.75	20.51	20.62
10	1	49		20.69	20.57	20.65
10	25	0		20.04	19.83	20.01
10	25	12		20.10	19.88	20.00
10	25	25		20.09	19.86	20.02
10	50	0		20.07	19.85	19.98
5	1	0	QPSK	22.71	22.46	22.60
5	1	12		22.82	22.61	22.71
5	1	24		22.81	22.62	22.72
5	12	0		21.89	21.65	21.81
5	12	7		22.04	21.78	21.94
5	12	13		22.02	21.78	21.96
5	25	0		21.95	21.74	21.91
5	1	0	16-QAM	21.95	21.74	21.76
5	1	12		22.09	21.88	21.91
5	1	24		22.12	21.89	21.93
5	12	0		20.89	20.66	20.81
5	12	7		21.03	20.81	20.96



5	12	13		21.01	20.79	20.97
5	25	0		20.98	20.76	20.93
5	1	0	64QAM	20.73	20.49	20.62
5	1	12		20.82	20.65	20.73
5	1	24		20.91	20.66	20.80
5	12	0		20.00	19.77	19.96
5	12	7		20.14	19.89	20.05
5	12	13		20.12	19.88	20.07
5	25	0		20.14	19.89	20.07



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	25.30	25.27	25.39
20	1	49		25.36	25.41	25.61
20	1	99		25.32	25.38	25.46
20	50	0		24.35	24.40	24.62
20	50	24		24.43	24.44	24.81
20	50	50		24.39	24.42	24.73
20	100	0		24.37	24.39	24.69
20	1	0	16-QAM	24.40	24.35	24.57
20	1	49		24.35	24.43	24.74
20	1	99		24.33	24.43	24.77
20	50	0		23.37	23.39	23.65
20	50	24		23.39	23.41	23.66
20	50	50		23.44	23.41	23.84
20	100	0		23.37	23.39	23.65
20	1	0	64QAM	23.31	23.35	23.57
20	1	49		23.30	23.45	23.74
20	1	99		23.31	23.43	23.75
20	50	0		22.36	22.47	22.72
20	50	24		22.37	22.54	22.80
20	50	50		22.41	22.54	22.85
20	100	0		22.35	22.51	22.77
15	1	0	QPSK	25.14	25.16	25.34
15	1	37		25.14	25.30	25.54
15	1	74		25.17	25.22	25.60
15	36	0		24.32	24.33	24.60
15	36	20		24.37	24.41	24.68
15	36	39		24.37	24.41	24.69
15	75	0		24.35	24.41	24.65
15	1	0	16-QAM	24.38	24.43	24.57
15	1	37		24.33	24.49	24.72
15	1	74		24.35	24.44	24.83
15	36	0		23.28	23.35	23.55
15	36	20		23.35	23.38	23.66



15	36	39		23.33	23.35	23.65
15	75	0		23.37	23.39	23.65
15	1	0	64QAM	23.28	23.40	23.57
15	1	37		23.25	23.49	23.74
15	1	74		23.29	23.46	23.75
15	36	0		22.29	22.43	22.65
15	36	20		22.35	22.52	22.74
15	36	39		22.34	22.50	22.78
15	75	0		22.31	22.49	22.75



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.92	25.02	25.30
10	1	25		24.95	25.06	25.28
10	1	49		24.98	25.03	25.26
10	25	0		24.18	24.22	24.52
10	25	12		24.18	24.26	24.55
10	25	25		24.16	24.23	24.48
10	50	0		24.20	24.26	24.52
10	1	0	16-QAM	24.26	24.31	24.58
10	1	25		24.21	24.32	24.60
10	1	49		24.22	24.29	24.56
10	25	0		23.20	23.29	23.55
10	25	12		23.20	23.29	23.58
10	25	25		23.19	23.28	23.53
10	50	0		23.19	23.29	23.52
10	1	0	64QAM	23.12	23.32	23.58
10	1	25		23.09	23.29	23.57
10	1	49		23.08	23.27	23.56
10	25	0		22.21	22.39	22.65
10	25	12		22.22	22.42	22.68
10	25	25		22.18	22.38	22.62
10	50	0		22.17	22.37	22.63
5	1	0	QPSK	24.99	25.14	25.36
5	1	12		25.03	25.11	25.34
5	1	24		25.00	25.10	25.33
5	12	0		24.17	24.29	24.51
5	12	7		24.24	24.33	24.57
5	12	13		24.20	24.33	24.54
5	25	0		24.20	24.29	24.54
5	1	0	16-QAM	24.26	24.37	24.60
5	1	12		24.31	24.38	24.61
5	1	24		24.32	24.38	24.61
5	12	0		23.23	23.31	23.51
5	12	7		23.26	23.34	23.55



5	12	13		23.21	23.30	23.50
5	25	0		23.25	23.34	23.56
5	1	0	64QAM	23.14	23.37	23.63
5	1	12		23.16	23.38	23.62
5	1	24		23.19	23.40	23.64
5	12	0		22.21	22.39	22.64
5	12	7		22.25	22.43	22.65
5	12	13		22.21	22.43	22.64
5	25	0		22.24	22.40	22.61



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.59	23.73	23.64
20	1	49		23.52	23.59	23.49
20	1	99		23.47	23.53	23.48
20	50	0		22.65	22.81	22.62
20	50	24		22.61	22.74	22.54
20	50	50		22.56	22.70	22.45
20	100	0		22.60	22.73	22.52
20	1	0	16-QAM	22.75	22.94	22.87
20	1	49		22.68	22.91	22.74
20	1	99		22.64	22.81	22.48
20	50	0		21.65	21.78	21.58
20	50	24		21.61	21.74	21.52
20	50	50		21.55	21.68	21.42
20	100	0		21.58	21.70	21.48
20	1	0	64QAM	21.73	21.90	21.86
20	1	49		21.57	21.80	21.74
20	1	99		21.62	21.81	21.47
20	50	0		20.64	20.81	20.61
20	50	24		20.62	20.76	20.54
20	50	50		20.55	20.69	20.44
20	100	0		20.62	20.73	20.52
15	1	0	QPSK	23.43	23.69	23.51
15	1	37		23.41	23.55	23.31
15	1	74		23.39	23.56	23.29
15	36	0		22.60	22.79	22.55
15	36	20		22.60	22.71	22.47
15	36	39		22.52	22.68	22.39
15	75	0		22.57	22.73	22.48
15	1	0	16-QAM	22.82	22.91	22.79
15	1	37		22.70	22.80	22.68
15	1	74		22.67	22.82	22.70
15	36	0		21.62	21.76	21.53
15	36	20		21.58	21.70	21.47



15	36	39		21.52	21.65	21.38
15	75	0		21.56	21.72	21.45
15	1	0	64QAM	21.74	21.95	21.75
15	1	37		21.62	21.86	21.49
15	1	74		21.57	21.72	21.46
15	36	0		20.62	20.80	20.57
15	36	20		20.60	20.73	20.49
15	36	39		20.53	20.64	20.41
15	75	0		20.57	20.74	20.48



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.25	23.44	23.17
10	1	25		23.28	23.44	23.19
10	1	49		23.26	23.41	23.13
10	25	0		22.41	22.59	22.32
10	25	12		22.41	22.57	22.28
10	25	25		22.36	22.52	22.21
10	50	0		22.40	22.55	22.27
10	1	0	16-QAM	22.57	22.75	22.45
10	1	25		22.57	22.71	22.41
10	1	49		22.56	22.67	22.36
10	25	0		21.42	21.56	21.32
10	25	12		21.40	21.55	21.29
10	25	25		21.36	21.49	21.21
10	50	0		21.40	21.52	21.28
10	1	0	64QAM	21.46	21.66	21.51
10	1	25		21.52	21.66	21.41
10	1	49		21.50	21.64	21.29
10	25	0		20.40	20.60	20.32
10	25	12		20.40	20.57	20.29
10	25	25		20.36	20.52	20.22
10	50	0		20.41	20.55	20.29
5	1	0	QPSK	23.25	23.41	23.10
5	1	12		23.33	23.50	23.18
5	1	24		23.35	23.53	23.23
5	12	0		22.36	22.50	22.24
5	12	7		22.44	22.60	22.25
5	12	13		22.44	22.56	22.26
5	25	0		22.44	22.51	22.22
5	1	0	16-QAM	22.54	22.67	22.41
5	1	12		22.62	22.77	22.43
5	1	24		22.67	22.78	22.50
5	12	0		21.35	21.49	21.24
5	12	7		21.47	21.58	21.29



5	12	13		21.46	21.58	21.28
5	25	0		21.44	21.52	21.22
5	1	0	64QAM	21.50	21.67	21.38
5	1	12		21.55	21.70	21.38
5	1	24		21.60	21.74	21.42
5	12	0		20.38	20.55	20.25
5	12	7		20.47	20.66	20.31
5	12	13		20.49	20.62	20.32
5	25	0		20.44	20.54	20.22



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.30	23.39	23.15
3	1	8		23.37	23.55	23.23
3	1	14		23.29	23.48	23.14
3	8	0		22.07	22.51	22.25
3	8	4		22.40	22.57	22.30
3	8	7		22.44	22.55	22.27
3	15	0		22.46	22.51	22.29
3	1	0	16-QAM	22.49	22.72	22.44
3	1	8		22.68	22.84	22.49
3	1	14		22.64	22.71	22.41
3	8	0		21.45	21.53	21.29
3	8	4		21.49	21.62	21.31
3	8	7		21.48	21.60	21.30
3	15	0		21.45	21.53	21.12
3	1	0	64QAM	21.44	21.64	21.38
3	1	8		21.60	21.78	21.46
3	1	14		21.37	21.69	21.39
3	8	0		20.41	20.55	20.31
3	8	4		20.49	20.66	20.34
3	8	7		20.45	20.58	20.30
3	15	0		20.41	20.54	20.29
1.4	1	0	QPSK	23.20	23.39	23.01
1.4	1	3		23.27	23.47	23.16
1.4	1	5		23.23	23.40	23.11
1.4	3	0		23.24	23.44	23.08
1.4	3	1		23.29	23.46	23.15
1.4	3	3		23.22	23.42	23.14
1.4	6	0		22.31	22.49	22.16
1.4	1	0	16-QAM	22.45	22.70	22.32
1.4	1	3		22.58	22.72	22.40
1.4	1	5		22.49	22.66	22.35
1.4	3	0		22.27	22.51	22.15
1.4	3	1		22.34	22.50	22.18



1.4	3	3		22.31	22.47	22.13
1.4	6	0		21.36	21.53	21.17
1.4	1	0	64QAM	21.40	21.67	21.32
1.4	1	3		21.52	21.72	21.42
1.4	1	5		21.23	21.63	21.31
1.4	3	0		21.32	21.65	21.24
1.4	3	1		21.39	21.66	21.37
1.4	3	3		21.38	21.61	21.32
1.4	6	0		20.33	20.51	20.14



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.63	23.69	23.65
20	1	49		23.52	23.55	23.54
20	1	99		23.51	23.57	23.48
20	50	0		22.67	22.70	22.67
20	50	24		22.73	22.76	22.75
20	50	50		22.74	22.85	22.71
20	100	0		22.69	22.71	22.69
20	1	0	16-QAM	22.90	22.96	22.99
20	1	49		22.74	22.78	22.71
20	1	99		22.75	22.84	22.78
20	50	0		21.71	21.68	21.71
20	50	24		21.70	21.75	21.77
20	50	50		21.77	21.78	21.73
20	100	0		21.69	21.72	21.75
20	1	0	64-QAM	21.74	21.90	21.71
20	1	49		21.74	21.75	21.61
20	1	99		21.78	21.78	21.53
20	50	0		20.82	20.80	20.75
20	50	24		20.92	20.85	20.72
20	50	50		20.71	20.64	20.72
20	100	0		20.63	20.56	20.64
15	1	0	QPSK	23.63	23.68	23.66
15	1	37		23.54	23.58	23.53
15	1	74		23.46	23.54	23.47
15	36	0		22.66	22.74	22.74
15	36	20		22.69	22.77	22.72
15	36	39		22.73	22.66	22.61
15	75	0		22.69	22.68	22.71
15	1	0	16-QAM	22.94	22.96	22.82
15	1	37		22.83	22.75	22.71
15	1	74		22.68	22.60	22.59
15	36	0		21.83	21.74	21.77
15	36	20		21.85	21.73	21.78



15	36	39		21.71	21.71	21.75
15	75	0		21.80	21.72	21.74
15	1	0	64-QAM	21.85	21.82	21.71
15	1	37		21.56	21.66	21.55
15	1	74		21.61	21.62	21.65
15	36	0		20.71	20.72	20.75
15	36	20		20.77	20.71	20.78
15	36	39		20.79	20.67	20.73
15	75	0		20.71	20.71	20.83



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.53	23.51	23.42
10	1	25		23.40	23.47	23.43
10	1	49		23.48	23.52	23.40
10	25	0		22.56	22.63	22.58
10	25	12		22.51	22.62	22.57
10	25	25		22.51	22.54	22.50
10	50	0		22.55	22.59	22.54
10	1	0	16-QAM	22.72	22.66	22.39
10	1	25		22.67	22.61	22.34
10	1	49		22.73	22.67	22.40
10	25	0		21.67	21.61	21.34
10	25	12		21.65	21.65	21.59
10	25	25		21.63	21.58	21.80
10	50	0		21.59	21.62	21.77
10	1	0	64-QAM	21.48	21.60	21.75
10	1	25		21.59	21.55	21.48
10	1	49		21.55	21.59	21.39
10	25	0		20.52	20.65	20.55
10	25	12		20.39	20.66	20.52
10	25	25		20.50	20.59	20.65
10	50	0		20.52	20.61	20.57
5	1	0	QPSK	23.36	23.43	23.35
5	1	12		23.42	23.50	23.47
5	1	24		23.47	23.56	23.48
5	12	0		22.44	22.56	22.52
5	12	7		22.58	22.67	22.60
5	12	13		22.57	22.63	22.59
5	25	0		22.53	22.63	22.48
5	1	0	16-QAM	22.35	22.45	22.38
5	1	12		22.54	22.59	22.51
5	1	24		22.50	22.57	22.50
5	12	0		21.59	21.52	21.52
5	12	7		21.62	21.66	21.42



5	12	13		21.48	21.63	21.48
5	25	0		21.38	21.60	21.58
5	1	0	64-QAM	21.46	21.56	21.57
5	1	12		21.40	21.62	21.63
5	1	24		21.48	21.63	21.57
5	12	0		20.47	20.52	20.67
5	12	7		20.36	20.61	20.50
5	12	13		20.35	20.62	20.62
5	25	0		20.55	20.61	20.37

**CA Power**

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	21.98
			1	0	0	0	1	22.35
			100	0	0	0	100	21.85
			100	0	100	0	200	21.4
			1	0	1	99	2	15.1
			1	0	1	0	2	17.85
			1	99	1	0	2	22.31
			100	0	1	99	101	20.2
		16QAM	0	0	1	99	1	21.37
			1	0	0	0	1	21.82
			100	0	0	0	100	20.74
			100	0	100	0	200	20.53
			1	0	1	99	2	15.23
			1	0	1	0	2	18.09
			1	99	1	0	2	22.55
			100	0	1	99	101	20.17
		64QAM	0	0	1	99	1	20.88
			1	0	0	0	1	21.65
			100	0	0	0	100	20.69
			100	0	100	0	200	20.68
			1	0	1	99	2	15.25
			1	0	1	0	2	17.81
			1	99	1	0	2	20.82
			100	0	1	99	101	20.13



21001	21199	QPSK	0	0	1	99	1	21.9
			1	0	0	0	1	22.74
			100	0	0	0	100	21.91
			100	0	100	0	200	21.79
			1	0	1	99	2	15.09
			1	0	1	0	2	17.63
			1	99	1	0	2	22.47
			100	0	1	99	101	20.22
		16QAM	0	0	1	99	1	21.68
			1	0	0	0	1	22.09
			100	0	0	0	100	20.96
			100	0	100	0	200	20.78
			1	0	1	99	2	15.26
			1	0	1	0	2	17.98
			1	99	1	0	2	22.19
			100	0	1	99	101	20.25
		64QAM	0	0	1	99	1	21.43
			1	0	0	0	1	21.61
			100	0	0	0	100	20.11
			100	0	100	0	200	20.75
			1	0	1	99	2	15.23
			1	0	1	0	2	17.8
			1	99	1	0	2	21.05
			100	0	1	99	101	20.25



21152	21350	QPSK	0	0	1	99	1	21.99
			1	0	0	0	1	22.9
			100	0	0	0	100	21.96
			100	0	100	0	200	21.77
			1	0	1	99	2	15.14
			1	0	1	0	2	17.82
			1	99	1	0	2	22.72
			100	0	1	99	101	20.18
		16QAM	0	0	1	99	1	21.51
			1	0	0	0	1	22.04
			100	0	0	0	100	20.98
			100	0	100	0	200	20.76
			1	0	1	99	2	15.27
			1	0	1	0	2	18.16
			1	99	1	0	2	22.89
			100	0	1	99	101	20.22
		64QAM	0	0	1	99	1	21.03
			1	0	0	0	1	21.11
			100	0	0	0	100	20.03
			100	0	100	0	200	20.76
			1	0	1	99	2	15.29
			1	0	1	0	2	17.94
			1	99	1	0	2	21.05
			100	0	1	99	101	20.28



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	23.07
		16QAM	1	99	1	0	2	22.18
		64QAM	1	99	1	0	2	20.78
21026	21197	QPSK	1	99	1	0	2	23.24
		16QAM	1	99	1	0	2	22.43
		64QAM	1	99	1	0	2	20.97
21201	21372	QPSK	1	99	1	0	2	23.25
		16QAM	1	99	1	0	2	22.31
		64QAM	1	99	1	0	2	20.86
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	23.22
		16QAM	1	74	1	0	2	22.21
		64QAM	1	74	1	0	2	20.81
21003	21174	QPSK	1	74	1	0	2	23.24
		16QAM	1	74	1	0	2	22.35
		64QAM	1	74	1	0	2	20.97
21179	21350	QPSK	1	74	1	0	2	23.21
		16QAM	1	74	1	0	2	22.27
		64QAM	1	74	1	0	2	20.85



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	23.05
		16QAM	1	99	1	0	2	22.24
		64QAM	1	99	1	0	2	20.69
21051	21195	QPSK	1	99	1	0	2	23.11
		16QAM	1	99	1	0	2	22.47
		64QAM	1	99	1	0	2	20.8
21251	21395	QPSK	1	99	1	0	1	23.16
		16QAM	1	99	1	0	2	22.34
		64QAM	1	99	1	0	2	20.7
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	22.45
		16QAM	1	49	1	0	2	21.52
		64QAM	1	49	1	0	2	20.59
21006	21150	QPSK	1	49	1	0	2	22.42
		16QAM	1	49	1	0	2	21.66
		64QAM	1	49	1	0	2	20.69
21206	21350	QPSK	1	49	1	0	2	22.51
		16QAM	1	49	1	0	2	21.78
		64QAM	1	49	1	0	2	20.68



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	23.08
		16QAM	1	74	1	0	1	22.16
		64QAM	1	74	1	0	1	20.61
21025	21175	QPSK	1	74	1	0	1	23.24
		16QAM	1	74	1	0	1	22.28
		64QAM	1	74	1	0	1	20.75
21225	21375	QPSK	1	74	1	0	1	23.23
		16QAM	1	74	1	0	1	22.25
		64QAM	1	74	1	0	1	20.71
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	23.17
		16QAM	1	74	1	0	1	22.17
		64QAM	1	74	1	0	1	20.65
21051	21171	QPSK	1	74	1	0	1	23.21
		16QAM	1	74	1	0	1	22.37
		64QAM	1	74	1	0	1	20.86
21277	21397	QPSK	1	74	1	0	1	23.23
		16QAM	1	74	1	0	1	22.25
		64QAM	1	74	1	0	1	20.86



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	21.98
			1	0	0	0	1	22.61
			100	0	0	0	100	21.58
			100	0	100	0	200	21.62
			1	0	1	99	2	14.97
			1	0	1	0	2	17.41
			1	99	1	0	2	23.23
			100	0	1	99	101	20.17
		16QAM	0	0	1	99	1	20.99
			1	0	0	0	1	21.74
			100	0	0	0	100	20.74
			100	0	100	0	200	20.53
			1	0	1	99	2	15.04
			1	0	1	0	2	17.6
			1	99	1	0	2	22.46
			100	0	1	99	101	20.04
		64QAM	0	0	1	99	1	20.53
			1	0	0	0	1	20.72
			100	0	0	0	100	19.63
			100	0	100	0	200	20.48
			1	0	1	99	2	14.98
			1	0	1	0	2	17.48
			1	99	1	0	2	20.47
			100	0	1	99	101	20.1



40521	40719	QPSK	0	0	1	99	1	21.85
			1	0	0	0	1	22.54
			100	0	0	0	100	21.76
			100	0	100	0	200	21.57
			1	0	1	99	2	15.03
			1	0	1	0	2	17.45
			1	99	1	0	2	23.39
			100	0	1	99	101	20.29
		16QAM	0	0	1	99	1	21.27
			1	0	0	0	1	21.73
			100	0	0	0	100	20.77
			100	0	100	0	200	20.53
			1	0	1	99	2	15.13
			1	0	1	0	2	17.66
			1	99	1	0	2	22.48
			100	0	1	99	101	19.99
		64QAM	0	0	1	99	1	20.44
			1	0	0	0	1	20.67
			100	0	0	0	100	19.74
			100	0	100	0	200	20.54
			1	0	1	99	2	15.07
			1	0	1	0	2	17.61
			1	99	1	0	2	20.52
			100	0	1	99	101	20.15



41292	41490	QPSK	0	0	1	99	1	22.89
			1	0	0	0	1	22.67
			100	0	0	0	100	21.77
			100	0	100	0	200	21.07
			1	0	1	99	2	14.82
			1	0	1	0	2	17.6
			1	99	1	0	2	23.23
			100	0	1	99	101	20.17
		16QAM	0	0	1	99	1	20.89
			1	0	0	0	1	21.82
			100	0	0	0	100	20.77
			100	0	100	0	200	20.61
			1	0	1	99	2	15.3
			1	0	1	0	2	17.69
			1	99	1	0	2	22.45
			100	0	1	99	101	20.13
		64QAM	0	0	1	99	1	20.73
			1	0	0	0	1	21.59
			100	0	0	0	100	20.53
			100	0	100	0	200	20.69
			1	0	1	99	2	15.05
			1	0	1	0	2	17.46
			1	99	1	0	2	20.46
			100	0	1	99	101	20.12



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	23.22
		16QAM	1	99	1	0	1	22.17
		64QAM	1	99	1	0	1	20.36
40546	40717	QPSK	1	99	1	0	2	23.2
		16QAM	1	99	1	0	1	22.34
		64QAM	1	99	1	0	1	20.33
41341	41512	QPSK	1	99	1	0	2	23.17
		16QAM	1	99	1	0	1	22.49
		64QAM	1	99	1	0	1	20.53
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	23.19
		16QAM	1	74	1	0	2	22.35
		64QAM	1	74	1	0	2	20.41
40523	40694	QPSK	1	74	1	0	2	23.26
		16QAM	1	74	1	0	2	22.36
		64QAM	1	74	1	0	2	20.35
41319	41490	QPSK	1	74	1	0	2	23.18
		16QAM	1	74	1	0	2	22.37
		64QAM	1	74	1	0	2	20.42



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	23.23
		16QAM	1	99	1	0	2	22.21
		64QAM	1	99	1	0	2	20.33
40571	40715	QPSK	1	99	1	0	1	23.28
		16QAM	1	99	1	0	2	22.29
		64QAM	1	99	1	0	2	20.33
41391	41535	QPSK	1	99	1	0	2	23.24
		16QAM	1	99	1	0	2	22.48
		64QAM	1	99	1	0	2	20.61
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	23.21
		16QAM	1	49	1	0	2	22.24
		64QAM	1	49	1	0	2	20.26
40526	40670	QPSK	1	49	1	0	2	23.28
		16QAM	1	49	1	0	2	22.35
		64QAM	1	49	1	0	2	20.34
41346	41490	QPSK	1	49	1	0	2	23.24
		16QAM	1	49	1	0	2	22.31
		64QAM	1	49	1	0	2	20.35



Combination 20MHz+5MHz (100RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured
Channel	Channel		RB Size	RB offset	RB Size	RB offset		Power (dBm)
39750	39867	QPSK	1	99	1	0	2	23.24
		16QAM	1	99	1	0	2	22.24
		64QAM	1	99	1	0	2	19.88
40595	40712	QPSK	1	99	1	0	2	23.08
		16QAM	1	99	1	0	2	22.21
		64QAM	1	99	1	0	2	20.26
41440	41557	QPSK	1	99	1	0	2	23.26
		16QAM	1	99	1	0	2	22.53
		64QAM	1	99	1	0	2	20.62
Combination 5MHz+20MHz (25RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured
Channel	Channel		RB Size	RB offset	RB Size	RB offset		Power (dBm)
39683	39800	QPSK	1	24	1	0	2	23.22
		16QAM	1	24	1	0	2	22.35
		64QAM	1	24	1	0	2	20.32
40528	40645	QPSK	1	24	1	0	2	23.05
		16QAM	1	24	1	0	2	22.29
		64QAM	1	24	1	0	2	20.48
41373	41490	QPSK	1	24	1	0	2	23.17
		16QAM	1	24	1	0	2	22.33
		64QAM	1	24	1	0	2	20.47



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	23.21
		16QAM	1	74	1	0	2	22.29
		64QAM	1	74	1	0	2	20.3
40545	40695	QPSK	1	74	1	0	2	23.26
		16QAM	1	74	1	0	2	22.32
		64QAM	1	74	1	0	2	20.31
41365	41515	QPSK	1	74	1	0	2	23.21
		16QAM	1	74	1	0	2	22.24
		64QAM	1	74	1	0	2	20.23
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	23.25
		16QAM	1	74	1	0	2	22.29
		64QAM	1	74	1	0	2	20.33
40571	40691	QPSK	1	74	1	0	2	23.25
		16QAM	1	74	1	0	2	22.21
		64QAM	1	74	1	0	2	20.22
41417	41537	QPSK	1	74	1	0	2	23.22
		16QAM	1	74	1	0	2	22.36
		64QAM	1	74	1	0	2	20.41



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		
39703	39823	QPSK	1	49	1	0	2	23.21
		16QAM	1	49	1	0	2	22.26
		64QAM	1	49	1	0	2	20.24
40549	40669	QPSK	1	49	1	0	2	23.26
		16QAM	1	49	1	0	2	22.22
		64QAM	1	49	1	0	2	20.32
41395	41515	QPSK	1	49	1	0	2	23.24
		16QAM	1	49	1	0	2	22.44
		64QAM	1	49	1	0	2	20.43

Note: For Top/Bottom Antenna, the higher Conducted power is showed in this report.

**ERP/EIRP**

LTE Band 2 (GT - LC = -0.50 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)	23.08	23.14	23.12	23.12	23.22	23.21	23.06	23.17	23.14
Conducted Power (Watts)	0.2032	0.2061	0.2051	0.2051	0.2099	0.2094	0.2023	0.2075	0.2061
EIRP(dBm)	22.58	22.64	22.62	22.62	22.72	22.71	22.56	22.67	22.64
EIRP(Watts)	0.1811	0.1837	0.1828	0.1828	0.1871	0.1866	0.1803	0.1849	0.1837

LTE Band 2 (GT - LC = -0.50 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)	23.01	23.08	23.25	23.22	23.24	23.27	23.20	23.31	23.26
Conducted Power (Watts)	0.2000	0.2032	0.2113	0.2099	0.2109	0.2123	0.2089	0.2143	0.2118
EIRP(dBm)	22.51	22.58	22.75	22.72	22.74	22.77	22.70	22.81	22.76
EIRP(Watts)	0.1782	0.1811	0.1884	0.1871	0.1879	0.1892	0.1862	0.1910	0.1888



LTE Band 2 (GT - LC = -0.50 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)	22.39	22.45	22.42	22.42	22.49	22.48	22.38	22.48	22.44
Conducted Power (Watts)	0.1734	0.1758	0.1746	0.1746	0.1774	0.1770	0.1730	0.1770	0.1754
EIRP(dBm)	21.89	21.95	21.92	21.92	21.99	21.98	21.88	21.98	21.94
EIRP(Watts)	0.1545	0.1567	0.1556	0.1556	0.1581	0.1578	0.1542	0.1578	0.1563

LTE Band 2 (GT - LC = -0.50 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)	22.27	22.37	22.49	22.55	22.61	22.57	22.49	22.62	22.60
Conducted Power (Watts)	0.1687	0.1726	0.1774	0.1799	0.1824	0.1807	0.1774	0.1828	0.1820
EIRP(dBm)	21.77	21.87	21.99	22.05	22.11	22.07	21.99	22.12	22.10
EIRP(Watts)	0.1503	0.1538	0.1581	0.1603	0.1626	0.1611	0.1581	0.1629	0.1622



LTE Band 2 (GT - LC = -0.50 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)	21.22	21.31	21.24	21.33	21.36	21.34	21.26	21.31	21.30
Conducted Power (Watts)	0.1324	0.1352	0.1330	0.1358	0.1368	0.1361	0.1337	0.1352	0.1349
EIRP(dBm)	20.72	20.81	20.74	20.83	20.86	20.84	20.76	20.81	20.80
EIRP(Watts)	0.1180	0.1205	0.1186	0.1211	0.1219	0.1213	0.1191	0.1205	0.1202

LTE Band 2 (GT - LC = -0.50 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)	21.16	21.18	21.39	21.30	21.45	21.44	21.42	21.45	21.46
Conducted Power (Watts)	0.1306	0.1312	0.1377	0.1349	0.1396	0.1393	0.1387	0.1396	0.1400
EIRP(dBm)	20.66	20.68	20.89	20.80	20.95	20.94	20.92	20.95	20.96
EIRP(Watts)	0.1164	0.1169	0.1227	0.1202	0.1245	0.1242	0.1236	0.1245	0.1247



LTE Band 4 (GT - LC = -0.50 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)	23.39	23.52	23.44	23.46	23.60	23.57	23.37	23.54	23.46
Conducted Power (Watts)	0.2183	0.2249	0.2208	0.2218	0.2291	0.2275	0.2173	0.2259	0.2218
EIRP(dBm)	22.89	23.02	22.94	22.96	23.10	23.07	22.87	23.04	22.96
EIRP(Watts)	0.1945	0.2004	0.1968	0.1977	0.2042	0.2028	0.1936	0.2014	0.1977

LTE Band 4 (GT - LC = -0.50 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)	23.30	23.51	23.42	23.48	23.60	23.62	23.58	23.72	23.70
Conducted Power (Watts)	0.2138	0.2244	0.2198	0.2228	0.2291	0.2301	0.2280	0.2355	0.2344
EIRP(dBm)	22.80	23.01	22.92	22.98	23.10	23.12	23.08	23.22	23.20
EIRP(Watts)	0.1905	0.2000	0.1959	0.1986	0.2042	0.2051	0.2032	0.2099	0.2089



LTE Band 4 (GT - LC = -0.50 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)	22.68	22.83	22.66	22.76	22.86	22.83	22.67	22.80	22.73
Conducted Power (Watts)	0.1854	0.1919	0.1845	0.1888	0.1932	0.1919	0.1849	0.1905	0.1875
EIRP(dBm)	22.18	22.33	22.16	22.26	22.36	22.33	22.17	22.30	22.23
EIRP(Watts)	0.1652	0.1710	0.1644	0.1683	0.1722	0.1710	0.1648	0.1698	0.1671

LTE Band 4 (GT - LC = -0.50 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)	22.67	22.76	22.73	22.82	22.92	22.98	22.90	22.95	23.00
Conducted Power (Watts)	0.1849	0.1888	0.1875	0.1914	0.1959	0.1986	0.1950	0.1972	0.1995
EIRP(dBm)	22.17	22.26	22.23	22.32	22.42	22.48	22.40	22.45	22.50
EIRP(Watts)	0.1648	0.1683	0.1671	0.1706	0.1746	0.1770	0.1738	0.1758	0.1778



LTE Band 4 (GT - LC = -0.50 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)	21.60	21.75	21.64	21.71	21.83	21.76	21.60	21.79	21.70
Conducted Power (Watts)	0.1445	0.1496	0.1459	0.1483	0.1524	0.1500	0.1445	0.1510	0.1479
EIRP(dBm)	21.10	21.25	21.14	21.21	21.33	21.26	21.10	21.29	21.20
EIRP(Watts)	0.1288	0.1334	0.1300	0.1321	0.1358	0.1337	0.1288	0.1346	0.1318

LTE Band 4 (GT - LC = -0.50 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)	21.63	21.75	21.79	21.78	21.93	21.95	21.77	21.90	22.03
Conducted Power (Watts)	0.1455	0.1496	0.1510	0.1507	0.1560	0.1567	0.1503	0.1549	0.1596
EIRP(dBm)	21.13	21.25	21.29	21.28	21.43	21.45	21.27	21.40	21.53
EIRP(Watts)	0.1297	0.1334	0.1346	0.1343	0.1390	0.1396	0.1340	0.1380	0.1422



LTE Band 5 (GT - LC = -2.00 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)	22.65	22.70	22.68	22.70	22.79	22.78	22.65	22.67	22.69
Conducted Power (Watts)	0.1841	0.1862	0.1854	0.1862	0.1901	0.1897	0.1841	0.1849	0.1858
ERP(dBm)	18.50	18.55	18.53	18.55	18.64	18.63	18.50	18.52	18.54
ERP(Watts)	0.0708	0.0716	0.0713	0.0716	0.0731	0.0729	0.0708	0.0711	0.0714

LTE Band 5 (GT - LC = -2.00 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.61	22.80	22.76
Conducted Power (Watts)	0.1824	0.1905	0.1888
ERP(dBm)	18.46	18.65	18.61
ERP(Watts)	0.0701	0.0733	0.0726

LTE Band 5 (GT - LC = -2.00 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)	21.92	21.90	21.98	22.04	22.07	22.04	21.94	21.99	22.01
Conducted Power (Watts)	0.1556	0.1549	0.1578	0.1600	0.1611	0.1600	0.1563	0.1581	0.1589
ERP(dBm)	17.77	17.75	17.83	17.89	17.92	17.89	17.79	17.84	17.86
ERP(Watts)	0.0598	0.0596	0.0607	0.0615	0.0619	0.0615	0.0601	0.0608	0.0611

LTE Band 5 (GT - LC = -2.00 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.88	22.03	22.08
Conducted Power (Watts)	0.1542	0.1596	0.1614
ERP(dBm)	17.73	17.88	17.93
ERP(Watts)	0.0593	0.0614	0.0621



LTE Band 5 (GT - LC = -2.00 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)	20.87	20.91	20.94	20.96	20.99	21.04	20.88	20.92	20.96
Conducted Power (Watts)	0.1222	0.1233	0.1242	0.1247	0.1256	0.1271	0.1225	0.1236	0.1247
ERP(dBm)	16.72	16.76	16.79	16.81	16.84	16.89	16.73	16.77	16.81
ERP(Watts)	0.0470	0.0474	0.0478	0.0480	0.0483	0.0489	0.0471	0.0475	0.0480

LTE Band 5 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	20.88	20.98	20.99
Conducted Power (Watts)	0.1225	0.1253	0.1256
ERP(dBm)	16.73	16.83	16.84
ERP(Watts)	0.0471	0.0482	0.0483



LTE Band 7 (GT - LC = -0.50 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.91	23.08	23.16
Conducted Power (Watts)	0.1954	0.2032	0.2070
EIRP(dBm)	22.41	22.58	22.66
EIRP(Watts)	0.1742	0.1811	0.1845

LTE Band 7 (GT - LC = -0.50 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)	22.67	23.04	23.07	23.01	23.18	23.23	23.22	23.24	23.25
Conducted Power (Watts)	0.1849	0.2014	0.2028	0.2000	0.2080	0.2104	0.2099	0.2109	0.2113
EIRP(dBm)	22.17	22.54	22.57	22.51	22.68	22.73	22.72	22.74	22.75
EIRP(Watts)	0.1648	0.1795	0.1807	0.1782	0.1854	0.1875	0.1871	0.1879	0.1884



LTE Band 7 (GT - LC = -0.50 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.08	22.32	22.44
Conducted Power (Watts)	0.1614	0.1706	0.1754
EIRP(dBm)	21.58	21.82	21.94
EIRP(Watts)	0.1439	0.1521	0.1563

LTE Band 7 (GT - LC = -0.50 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)	21.98	22.30	22.33	22.31	22.51	22.56	22.34	22.44	22.47
Conducted Power (Watts)	0.1578	0.1698	0.1710	0.1702	0.1782	0.1803	0.1714	0.1754	0.1766
EIRP(dBm)	21.48	21.80	21.83	21.81	22.01	22.06	21.84	21.94	21.97
EIRP(Watts)	0.1406	0.1514	0.1524	0.1517	0.1589	0.1607	0.1528	0.1563	0.1574



LTE Band 7 (GT - LC = -0.50 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.00	21.43	21.39
Conducted Power (Watts)	0.1259	0.1390	0.1377
EIRP(dBm)	20.50	20.93	20.89
EIRP(Watts)	0.1122	0.1239	0.1227

LTE Band 7 (GT - LC = -0.50 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)	20.91	21.34	21.36	21.14	21.54	21.44	21.21	21.41	21.53
Conducted Power (Watts)	0.1233	0.1361	0.1368	0.1300	0.1426	0.1393	0.1321	0.1384	0.1422
EIRP(dBm)	20.41	20.84	20.86	20.64	21.04	20.94	20.71	20.91	21.03
EIRP(Watts)	0.1099	0.1213	0.1219	0.1159	0.1271	0.1242	0.1178	0.1233	0.1268



LTE Band 12 (GT - LC = -2.00 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)	23.25	23.33	23.34	23.33	23.39	23.40	23.29	23.36	23.36
Conducted Power (Watts)	0.2113	0.2153	0.2158	0.2153	0.2183	0.2188	0.2133	0.2168	0.2168
ERP(dBm)	19.10	19.18	19.19	19.18	19.24	19.25	19.14	19.21	19.21
ERP(Watts)	0.0813	0.0828	0.0830	0.0828	0.0839	0.0841	0.0820	0.0834	0.0834

LTE Band 12 (GT - LC = -2.00 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.27	23.42	23.36
Conducted Power (Watts)	0.2123	0.2198	0.2168
ERP(dBm)	19.12	19.27	19.21
ERP(Watts)	0.0817	0.0845	0.0834



LTE Band 12 (GT - LC = -2.00 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	22.54	22.60	22.59	22.66	22.66	22.62	22.54	22.64	22.58
Conducted Power (Watts)	0.1795	0.1820	0.1816	0.1845	0.1845	0.1828	0.1795	0.1837	0.1811
ERP(dBm)	18.39	18.45	18.44	18.51	18.51	18.47	18.39	18.49	18.43
ERP(Watts)	0.0690	0.0700	0.0698	0.0710	0.0710	0.0703	0.0690	0.0706	0.0697

LTE Band 12 (GT - LC = -2.00dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	22.64	22.62	22.66
Conducted Power (Watts)	0.1837	0.1828	0.1845
ERP(dBm)	18.49	18.47	18.51
ERP(Watts)	0.0706	0.0703	0.0710



LTE Band 12 (GT - LC = -2.00 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)	21.51	21.57	21.54	21.61	21.64	21.53	21.50	21.60	21.51
Conducted Power (Watts)	0.1416	0.1435	0.1426	0.1449	0.1459	0.1422	0.1413	0.1445	0.1416
ERP(dBm)	17.36	17.42	17.39	17.46	17.49	17.38	17.35	17.45	17.36
ERP(Watts)	0.0545	0.0552	0.0548	0.0557	0.0561	0.0547	0.0543	0.0556	0.0545

LTE Band 12 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.51	21.57	21.57
Conducted Power (Watts)	0.1416	0.1435	0.1435
ERP(dBm)	17.36	17.42	17.42
ERP(Watts)	0.0545	0.0552	0.0552



LTE Band 13 (GT - LC = -2.00 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.54	22.53	22.53		22.59	-
Conducted Power (Watts)	0.1795	0.1791	0.1791		0.1816	-
ERP(dBm)	18.39	18.38	18.38		18.44	-
ERP(Watts)	0.0690	0.0689	0.0689		0.0698	-

LTE Band 13 (GT - LC = -2.00 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	21.74	21.85	21.83		21.81	-
Conducted Power (Watts)	0.1493	0.1531	0.1524		0.1517	-
ERP(dBm)	17.59	17.70	17.68		17.66	-
ERP(Watts)	0.0574	0.0589	0.0586		0.0583	-

LTE Band 13 (GT - LC = -2.00 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	20.74	20.79	20.76		20.76	-
Conducted Power (Watts)	0.1186	0.1199	0.1191		0.1191	-
ERP(dBm)	16.59	16.64	16.61		16.61	-
ERP(Watts)	0.0456	0.0461	0.0458		0.0458	-



LTE Band 17 (GT - LC = -2.00 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)	22.83	22.89	22.84	22.74	22.90	22.76
Conducted Power (Watts)	0.1919	0.1945	0.1923	0.1879	0.1950	0.1888
ERP(dBm)	18.68	18.74	18.69	18.59	18.75	18.61
ERP(Watts)	0.0738	0.0748	0.0740	0.0723	0.0750	0.0726

LTE Band 17 (GT - LC = -2.00 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)	22.05	22.14	22.08	22.05	22.09	22.08
Conducted Power (Watts)	0.1603	0.1637	0.1614	0.1603	0.1618	0.1614
ERP(dBm)	17.90	17.99	17.93	17.90	17.94	17.93
ERP(Watts)	0.0617	0.0630	0.0621	0.0617	0.0622	0.0621

LTE Band 17 (GT - LC = -2.00 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)	21.02	21.14	21.06	20.96	20.97	21.08
Conducted Power (Watts)	0.1265	0.1300	0.1276	0.1247	0.1250	0.1282
ERP(dBm)	16.87	16.99	16.91	16.81	16.82	16.93
ERP(Watts)	0.0486	0.0500	0.0491	0.0480	0.0481	0.0493



LTE Band 25 (GT - LC = -0.50 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)	22.18	22.24	22.20	22.94	23.03	22.89	22.93	22.98	22.84
Conducted Power (Watts)	0.1652	0.1675	0.1660	0.1968	0.2009	0.1945	0.1963	0.1986	0.1923
EIRP(dBm)	21.68	21.74	21.70	22.44	22.53	22.39	22.43	22.48	22.34
EIRP(Watts)	0.1472	0.1493	0.1479	0.1754	0.1791	0.1734	0.1750	0.1770	0.1714

LTE Band 25 (GT - LC = -0.50 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)	22.82	22.92	22.80	23.01	23.17	23.08	23.09	23.18	23.10
Conducted Power (Watts)	0.1914	0.1959	0.1905	0.2000	0.2075	0.2032	0.2037	0.2080	0.2042
EIRP(dBm)	22.32	22.42	22.30	22.51	22.67	22.58	22.59	22.68	22.60
EIRP(Watts)	0.1706	0.1746	0.1698	0.1782	0.1849	0.1811	0.1816	0.1854	0.1820



LTE Band 25 (GT - LC = -0.50 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)	21.47	21.51	21.49	21.95	22.23	21.89	22.20	22.29	22.13
Conducted Power (Watts)	0.1403	0.1416	0.1409	0.1567	0.1671	0.1545	0.1660	0.1694	0.1633
EIRP(dBm)	20.97	21.01	20.99	21.45	21.73	21.39	21.70	21.79	21.63
EIRP(Watts)	0.1250	0.1262	0.1256	0.1396	0.1489	0.1377	0.1479	0.1510	0.1455

LTE Band 25 (GT - LC = -0.50 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)	22.19	22.22	22.16	22.30	22.45	22.41	22.38	22.46	22.38
Conducted Power (Watts)	0.1656	0.1667	0.1644	0.1698	0.1758	0.1742	0.1730	0.1762	0.1730
EIRP(dBm)	21.69	21.72	21.66	21.80	21.95	21.91	21.88	21.96	21.88
EIRP(Watts)	0.1476	0.1486	0.1466	0.1514	0.1567	0.1552	0.1542	0.1570	0.1542



LTE Band 25 (GT - LC = -0.50 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)	21.02	21.07	20.88	21.13	21.12	21.09	21.04	21.11	21.00
Conducted Power (Watts)	0.1265	0.1279	0.1225	0.1297	0.1294	0.1285	0.1271	0.1291	0.1259
EIRP(dBm)	20.52	20.57	20.38	20.63	20.62	20.59	20.54	20.61	20.50
EIRP(Watts)	0.1127	0.1140	0.1091	0.1156	0.1153	0.1146	0.1132	0.1151	0.1122

LTE Band 25 (GT - LC = -0.50 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)	21.02	21.09	20.90	21.09	21.29	21.21	21.26	21.32	21.27
Conducted Power (Watts)	0.1265	0.1285	0.1230	0.1285	0.1346	0.1321	0.1337	0.1355	0.1340
EIRP(dBm)	20.52	20.59	20.40	20.59	20.79	20.71	20.76	20.82	20.77
EIRP(Watts)	0.1127	0.1146	0.1096	0.1146	0.1199	0.1178	0.1191	0.1208	0.1194



LTE Band 26 (GT - LC = -2.00 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)	22.61	22.63	22.58	22.68	22.67	22.66	22.63	22.65	22.60
Conducted Power (Watts)	0.1824	0.1832	0.1811	0.1854	0.1849	0.1845	0.1832	0.1841	0.1820
ERP(dBm)	18.46	18.48	18.43	18.53	18.52	18.51	18.48	18.50	18.45
ERP(Watts)	0.0701	0.0705	0.0697	0.0713	0.0711	0.0710	0.0705	0.0708	0.0700

LTE Band 26 (GT - LC = -2.00 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)	22.57	22.59	22.68	22.85	22.67	22.70	22.72
Conducted Power (Watts)	0.1807	0.1816	0.1854	0.1928	0.1849	0.1862	0.1871
ERP(dBm)	18.42	18.44	18.53	18.70	18.52	18.55	18.57
ERP(Watts)	0.0695	0.0698	0.0713	0.0741	0.0711	0.0716	0.0719



LTE Band 26 (GT - LC = -2.00 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)	21.89	21.93	21.88	21.91	21.97	21.96	21.93	21.93	21.90
Conducted Power (Watts)	0.1545	0.1560	0.1542	0.1552	0.1574	0.1570	0.1560	0.1560	0.1549
ERP(dBm)	17.74	17.78	17.73	17.76	17.82	17.81	17.78	17.78	17.75
ERP(Watts)	0.0594	0.0600	0.0593	0.0597	0.0605	0.0604	0.0600	0.0600	0.0596

LTE Band 26 (GT - LC = -2.00 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)	21.85	21.82	22.02	22.04	22.00	22.09	22.07
Conducted Power (Watts)	0.1531	0.1521	0.1592	0.1600	0.1585	0.1618	0.1611
ERP(dBm)	17.70	17.67	17.87	17.89	17.85	17.94	17.92
ERP(Watts)	0.0589	0.0585	0.0612	0.0615	0.0610	0.0622	0.0619



LTE Band 26 (GT - LC = -2.00 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)	20.92	20.98	20.96	20.94	21.00	20.98	20.86	20.89	20.93
Conducted Power (Watts)	0.1236	0.1253	0.1247	0.1242	0.1259	0.1253	0.1219	0.1227	0.1239
ERP(dBm)	16.77	16.83	16.81	16.79	16.85	16.83	16.71	16.74	16.78
ERP(Watts)	0.0475	0.0482	0.0480	0.0478	0.0484	0.0482	0.0469	0.0472	0.0476

LTE Band 26 (GT - LC = -2.00 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)	20.84	20.93	20.99	21.02	20.94	21.12	20.98
Conducted Power (Watts)	0.1213	0.1239	0.1256	0.1265	0.1242	0.1294	0.1253
ERP(dBm)	16.69	16.78	16.84	16.87	16.79	16.97	16.83
ERP(Watts)	0.0467	0.0476	0.0483	0.0486	0.0478	0.0498	0.0482



LTE Band 38 (GT - LC = -0.50 dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.82	22.61	22.71
Conducted Power (Watts)	0.1914	0.1824	0.1866
EIRP(dBm)	22.32	22.11	22.21
EIRP(Watts)	0.1706	0.1626	0.1663

LTE Band 38 (GT - LC = -0.50 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)	22.74	22.56	22.63	22.95	22.72	22.83	22.97	22.84	22.91
Conducted Power (Watts)	0.1879	0.1803	0.1832	0.1972	0.1871	0.1919	0.1982	0.1923	0.1954
EIRP(dBm)	22.24	22.06	22.13	22.45	22.22	22.33	22.47	22.34	22.41
EIRP(Watts)	0.1675	0.1607	0.1633	0.1758	0.1667	0.1710	0.1766	0.1714	0.1742



LTE Band 38 (GT - LC = -0.50 dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.12	21.89	21.93
Conducted Power (Watts)	0.1629	0.1545	0.1560
EIRP(dBm)	21.62	21.39	21.43
EIRP(Watts)	0.1452	0.1377	0.1390

LTE Band 38 (GT - LC = -0.50 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)	22.05	21.81	21.89	22.18	21.95	21.99	22.16	22.01	22.02
Conducted Power (Watts)	0.1603	0.1517	0.1545	0.1652	0.1567	0.1581	0.1644	0.1589	0.1592
EIRP(dBm)	21.55	21.31	21.39	21.68	21.45	21.49	21.66	21.51	21.52
EIRP(Watts)	0.1429	0.1352	0.1377	0.1472	0.1396	0.1409	0.1466	0.1416	0.1419



LTE Band 38 (GT - LC = -0.50 dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	20.91	20.66	20.80
Conducted Power (Watts)	0.1233	0.1164	0.1202
EIRP(dBm)	20.41	20.16	20.30
EIRP(Watts)	0.1099	0.1038	0.1072

LTE Band 38 (GT - LC = -0.50 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)	20.75	20.51	20.62	20.99	20.70	20.79	20.92	20.71	20.73
Conducted Power (Watts)	0.1189	0.1125	0.1153	0.1256	0.1175	0.1199	0.1236	0.1178	0.1183
EIRP(dBm)	20.25	20.01	20.12	20.49	20.20	20.29	20.42	20.21	20.23
EIRP(Watts)	0.1059	0.1002	0.1028	0.1119	0.1047	0.1069	0.1102	0.1050	0.1054



LTE Band 41 ($G_T - L_C = -0.50$ 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)	24.99	25.14	25.36	24.92	25.02	25.30	25.17	25.22	25.60
Conducted Power (Watts)	0.3155	0.3266	0.3436	0.3105	0.3177	0.3388	0.3289	0.3327	0.3631
EIRP(dBm)	24.49	24.64	24.86	24.42	24.52	24.80	24.67	24.72	25.10
EIRP(Watts)	0.2812	0.2911	0.3062	0.2767	0.2831	0.3020	0.2931	0.2965	0.3236

LTE Band 41 ($G_T - L_C = -0.50$ dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	25.36	25.41	25.61
Conducted Power (Watts)	0.3436	0.3475	0.3639
EIRP(dBm)	24.86	24.91	25.11
EIRP(Watts)	0.3062	0.3097	0.3243



LTE Band 41 ($G_T - L_C = -0.50$ 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)	24.31	24.38	24.61	24.21	24.32	24.60	24.35	24.44	24.83
Conducted Power (Watts)	0.2698	0.2742	0.2891	0.2636	0.2704	0.2884	0.2723	0.2780	0.3041
EIRP(dBm)	23.81	23.88	24.11	23.71	23.82	24.10	23.85	23.94	24.33
EIRP(Watts)	0.2404	0.2443	0.2576	0.2350	0.2410	0.2570	0.2427	0.2477	0.2710

LTE Band 41 ($G_T - L_C = -0.50$ dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	24.33	24.43	24.77
Conducted Power (Watts)	0.2710	0.2773	0.2999
EIRP(dBm)	23.83	23.93	24.27
EIRP(Watts)	0.2415	0.2472	0.2673



LTE Band 41 ($G_T - L_C = -0.50$ 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)	23.19	23.40	23.64	23.12	23.32	23.58	23.29	23.46	23.75
Conducted Power (Watts)	0.2084	0.2188	0.2312	0.2051	0.2148	0.2280	0.2133	0.2218	0.2371
EIRP(dBm)	22.69	22.90	23.14	22.62	22.82	23.08	22.79	22.96	23.25
EIRP(Watts)	0.1858	0.1950	0.2061	0.1828	0.1914	0.2032	0.1901	0.1977	0.2113

LTE Band 41 ($G_T - L_C = -0.50$ dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	23.31	23.43	23.75
Conducted Power (Watts)	0.2143	0.2203	0.2371
EIRP(dBm)	22.81	22.93	23.25
EIRP(Watts)	0.1910	0.1963	0.2113



LTE Band 66 (GT - LC = -0.50 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)	23.27	23.47	23.16	23.37	23.55	23.23	23.35	23.53	23.23
Conducted Power (Watts)	0.2123	0.2223	0.2070	0.2173	0.2265	0.2104	0.2163	0.2254	0.2104
EIRP(dBm)	22.77	22.97	22.66	22.87	23.05	22.73	22.85	23.03	22.73
EIRP(Watts)	0.1892	0.1982	0.1845	0.1936	0.2018	0.1875	0.1928	0.2009	0.1875

LTE Band 66 (GT - LC = -0.50 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)	23.25	23.44	23.17	23.43	23.69	23.51	23.59	23.73	23.64
Conducted Power (Watts)	0.2113	0.2208	0.2075	0.2203	0.2339	0.2244	0.2286	0.2360	0.2312
EIRP(dBm)	22.75	22.94	22.67	22.93	23.19	23.01	23.09	23.23	23.14
EIRP(Watts)	0.1884	0.1968	0.1849	0.1963	0.2084	0.2000	0.2037	0.2104	0.2061



LTE Band 66 (GT - LC = -0.50 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)	22.58	22.72	22.40	22.68	22.84	22.49	22.67	22.78	22.50
Conducted Power (Watts)	0.1811	0.1871	0.1738	0.1854	0.1923	0.1774	0.1849	0.1897	0.1778
EIRP(dBm)	22.08	22.22	21.90	22.18	22.34	21.99	22.17	22.28	22.00
EIRP(Watts)	0.1614	0.1667	0.1549	0.1652	0.1714	0.1581	0.1648	0.1690	0.1585

LTE Band 66 (GT - LC = -0.50 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)	22.57	22.75	22.45	22.82	22.91	22.79	22.75	22.94	22.87
Conducted Power (Watts)	0.1807	0.1884	0.1758	0.1914	0.1954	0.1901	0.1884	0.1968	0.1936
EIRP(dBm)	22.07	22.25	21.95	22.32	22.41	22.29	22.25	22.44	22.37
EIRP(Watts)	0.1611	0.1679	0.1567	0.1706	0.1742	0.1694	0.1679	0.1754	0.1726



LTE Band 66 (GT - LC = -0.50 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)	21.52	21.72	21.42	21.60	21.78	21.46	21.60	21.74	21.42
Conducted Power (Watts)	0.1419	0.1486	0.1387	0.1445	0.1507	0.1400	0.1445	0.1493	0.1387
EIRP(dBm)	21.02	21.22	20.92	21.10	21.28	20.96	21.10	21.24	20.92
EIRP(Watts)	0.1265	0.1324	0.1236	0.1288	0.1343	0.1247	0.1288	0.1330	0.1236

LTE Band 66 (GT - LC = -0.50 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)	21.46	21.66	21.51	21.74	21.95	21.75	21.73	21.90	21.86
Conducted Power (Watts)	0.1400	0.1466	0.1416	0.1493	0.1567	0.1496	0.1489	0.1549	0.1535
EIRP(dBm)	20.96	21.16	21.01	21.24	21.45	21.25	21.23	21.40	21.36
EIRP(Watts)	0.1247	0.1306	0.1262	0.1330	0.1396	0.1334	0.1327	0.1380	0.1368



LTE Band 71 (GT - LC = -2.50 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)	23.47	23.56	23.48	23.53	23.51	23.42	23.63	23.68	23.66
Conducted Power (Watts)	0.2223	0.2270	0.2228	0.2254	0.2244	0.2198	0.2307	0.2333	0.2323
ERP(dBm)	18.82	18.91	18.83	18.88	18.86	18.77	18.98	19.03	19.01
ERP(Watts)	0.0762	0.0778	0.0764	0.0773	0.0769	0.0753	0.0791	0.0800	0.0796

LTE Band 71 (GT - LC = -2.50 dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	23.63	23.69	23.65
Conducted Power (Watts)	0.2307	0.2339	0.2317
ERP(dBm)	18.98	19.04	19.00
ERP(Watts)	0.0791	0.0802	0.0794



LTE Band 71 (GT - LC = -2.50 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)	22.54	22.59	22.51	22.73	22.67	22.40	22.94	22.96	22.82
Conducted Power (Watts)	0.1795	0.1816	0.1782	0.1875	0.1849	0.1738	0.1968	0.1977	0.1914
ERP(dBm)	17.89	17.94	17.86	18.08	18.02	17.75	18.29	18.31	18.17
ERP(Watts)	0.0615	0.0622	0.0611	0.0643	0.0634	0.0596	0.0675	0.0678	0.0656

LTE Band 71 (GT - LC = -2.50 dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	22.90	22.96	22.99
Conducted Power (Watts)	0.1950	0.1977	0.1991
ERP(dBm)	18.25	18.31	18.34
ERP(Watts)	0.0668	0.0678	0.0682



LTE Band 71 (GT - LC = -2.50 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)	21.40	21.62	21.63	21.48	21.60	21.75	21.85	21.82	21.71
Conducted Power (Watts)	0.1380	0.1452	0.1455	0.1406	0.1445	0.1496	0.1531	0.1521	0.1483
ERP(dBm)	16.75	16.97	16.98	16.83	16.95	17.10	17.20	17.17	17.06
ERP(Watts)	0.0473	0.0498	0.0499	0.0482	0.0495	0.0513	0.0525	0.0521	0.0508

LTE Band 71 (GT - LC = -2.50 dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	21.74	21.90	21.71
Conducted Power (Watts)	0.1493	0.1549	0.1483
ERP(dBm)	17.09	17.25	17.06
ERP(Watts)	0.0512	0.0531	0.0508

CA EIRP

LTE Band 7 CA (GT - LC = -0.50 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)	23.08	23.24	23.23	22.45	22.42	22.51	23.05	23.11	23.16
Conducted Power (Watts)	0.2032	0.2109	0.2104	0.1758	0.1746	0.1782	0.2018	0.2046	0.2070
EIRP(dBm)	22.58	22.74	22.73	21.95	21.92	22.01	22.55	22.61	22.66
EIRP(Watts)	0.1811	0.1879	0.1875	0.1567	0.1556	0.1589	0.1799	0.1824	0.1845

LTE Band 7 CA (GT - LC = -0.50 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)	23.22	23.24	23.21	23.07	23.24	23.25	22.35	22.74	22.90
Conducted Power (Watts)	0.2099	0.2109	0.2094	0.2028	0.2109	0.2113	0.1718	0.1879	0.1950
EIRP(dBm)	22.72	22.74	22.71	22.57	22.74	22.75	21.85	22.24	22.40
EIRP(Watts)	0.1871	0.1879	0.1866	0.1807	0.1879	0.1884	0.1531	0.1675	0.1738

LTE Band 7 CA (GT - LC = -0.50 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)	22.16	22.28	22.25	21.52	21.66	21.78	22.24	22.47	22.34
Conducted Power (Watts)	0.1644	0.1690	0.1679	0.1419	0.1466	0.1507	0.1675	0.1766	0.1714
EIRP(dBm)	21.66	21.78	21.75	21.02	21.16	21.28	21.74	21.97	21.84
EIRP(Watts)	0.1466	0.1507	0.1496	0.1265	0.1306	0.1343	0.1493	0.1574	0.1528

LTE Band 7 CA (GT - LC = -0.50 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)	22.21	22.35	22.27	22.18	22.43	22.31	22.55	22.19	22.89
Conducted Power (Watts)	0.1663	0.1718	0.1687	0.1652	0.1750	0.1702	0.1799	0.1656	0.1945
EIRP(dBm)	21.71	21.85	21.77	21.68	21.93	21.81	22.05	21.69	22.39
EIRP(Watts)	0.1483	0.1531	0.1503	0.1472	0.1560	0.1517	0.1603	0.1476	0.1734

LTE Band 7 CA (GT - LC = -0.50 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)	20.61	20.75	20.71	20.59	20.69	20.68	20.69	20.80	20.70
Conducted Power (Watts)	0.1151	0.1189	0.1178	0.1146	0.1172	0.1169	0.1172	0.1202	0.1175
EIRP(dBm)	20.11	20.25	20.21	20.09	20.19	20.18	20.19	20.30	20.20
EIRP(Watts)	0.1026	0.1059	0.1050	0.1021	0.1045	0.1042	0.1045	0.1072	0.1047

LTE Band 7 CA (GT - LC = -0.50 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)	20.81	20.97	20.85	20.78	20.97	20.86	21.65	21.61	21.11
Conducted Power (Watts)	0.1205	0.1250	0.1216	0.1197	0.1250	0.1219	0.1462	0.1449	0.1291
EIRP(dBm)	20.31	20.47	20.35	20.28	20.47	20.36	21.15	21.11	20.61
EIRP(Watts)	0.1074	0.1114	0.1084	0.1067	0.1114	0.1086	0.1303	0.1291	0.1151



LTE Band 7 CA (GT - LC = -0.50 dB) QPSK			
Bandwidth	15M + 10M		
Channel PCC	20825	21051	21277
	(Low)	(Mid)	(High)
Channel SCC	20945	21171	21397
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.17	23.21	23.23
Conducted Power (Watts)	0.2075	0.2094	0.2104
EIRP(dBm)	22.67	22.71	22.73
EIRP(Watts)	0.1849	0.1866	0.1875

LTE Band 7 CA (GT - LC = -0.50 dB) 16QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21051	21277
	(Low)	(Mid)	(High)
Channel SCC	20945	21171	21397
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.17	22.37	22.25
Conducted Power (Watts)	0.1648	0.1726	0.1679
EIRP(dBm)	21.67	21.87	21.75
EIRP(Watts)	0.1469	0.1538	0.1496

LTE Band 7 CA (GT - LC = -0.50 dB) 64QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21051	21277
	(Low)	(Mid)	(High)
Channel SCC	20945	21171	21397
	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.65	20.86	20.86
Conducted Power (Watts)	0.1161	0.1219	0.1219
EIRP(dBm)	20.15	20.36	20.36
EIRP(Watts)	0.1035	0.1086	0.1086



LTE Band 41 CA (GT - LC = -0.50 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)	23.21	23.26	23.21	23.22	23.05	23.17	23.24	23.08	23.26
Conducted Power (Watts)	0.2094	0.2118	0.2094	0.2099	0.2018	0.2075	0.2109	0.2032	0.2118
EIRP(dBm)	22.71	22.76	22.71	22.72	22.55	22.67	22.74	22.58	22.76
EIRP(Watts)	0.1866	0.1888	0.1866	0.1871	0.1799	0.1849	0.1879	0.1811	0.1888

LTE Band 41 CA (GT - LC = -0.50 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)	23.21	23.28	23.24	23.23	23.28	23.24	23.19	23.26	23.18
Conducted Power (Watts)	0.2094	0.2128	0.2109	0.2104	0.2128	0.2109	0.2084	0.2118	0.2080
EIRP(dBm)	22.71	22.78	22.74	22.73	22.78	22.74	22.69	22.76	22.68
EIRP(Watts)	0.1866	0.1897	0.1879	0.1875	0.1897	0.1879	0.1858	0.1888	0.1854



LTE Band 41 CA (GT - LC = -0.50 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)	23.22	23.20	23.17	23.23	23.39	23.23
Conducted Power (Watts)	0.2099	0.2089	0.2075	0.2104	0.2183	0.2104
EIRP(dBm)	22.72	22.70	22.67	22.73	22.89	22.73
EIRP(Watts)	0.1871	0.1862	0.1849	0.1875	0.1945	0.1875

LTE Band 41 CA (GT - LC = -0.50 dB) QPSK						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39725	40571	41417	39703	40549	41395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39845	40691	41537	39823	40669	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.25	23.25	23.22	23.21	23.26	23.24
Conducted Power (Watts)	0.2113	0.2113	0.2099	0.2094	0.2118	0.2109
EIRP(dBm)	22.75	22.75	22.72	22.71	22.76	22.74
EIRP(Watts)	0.1884	0.1884	0.1871	0.1866	0.1888	0.1879



LTE Band 41 CA (GT - LC = -0.50 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)	22.29	22.32	22.24	22.35	22.29	22.33	22.24	22.21	22.53
Conducted Power (Watts)	0.1694	0.1706	0.1675	0.1718	0.1694	0.1710	0.1675	0.1663	0.1791
EIRP(dBm)	21.79	21.82	21.74	21.85	21.79	21.83	21.74	21.71	22.03
EIRP(Watts)	0.1510	0.1521	0.1493	0.1531	0.1510	0.1524	0.1493	0.1483	0.1596

LTE Band 41 CA (GT - LC = -0.50 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)	22.24	22.35	22.31	22.21	22.29	22.48	22.35	22.36	22.37
Conducted Power (Watts)	0.1675	0.1718	0.1702	0.1663	0.1694	0.1770	0.1718	0.1722	0.1726
EIRP(dBm)	21.74	21.85	21.81	21.71	21.79	21.98	21.85	21.86	21.87
EIRP(Watts)	0.1493	0.1531	0.1517	0.1483	0.1510	0.1578	0.1531	0.1535	0.1538



LTE Band 41 CA (GT - LC = -0.50 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)	22.17	22.34	22.49	22.46	22.48	22.45
Conducted Power (Watts)	0.1648	0.1714	0.1774	0.1762	0.1770	0.1758
EIRP(dBm)	21.67	21.84	21.99	21.96	21.98	21.95
EIRP(Watts)	0.1469	0.1528	0.1581	0.1570	0.1578	0.1567

LTE Band 41 CA (GT - LC = -0.50 dB) 16QAM						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39725	40571	41417	39703	40549	41395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39845	40691	41537	39823	40669	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.29	22.21	22.36	22.26	22.22	22.44
Conducted Power (Watts)	0.1694	0.1663	0.1722	0.1683	0.1667	0.1754
EIRP(dBm)	21.79	21.71	21.86	21.76	21.72	21.94
EIRP(Watts)	0.1510	0.1483	0.1535	0.1500	0.1486	0.1563



LTE Band 41 CA (GT - LC = -0.50 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)	20.30	20.31	20.23	20.32	20.48	20.47	19.88	20.26	20.62
Conducted Power (Watts)	0.1072	0.1074	0.1054	0.1076	0.1117	0.1114	0.0973	0.1062	0.1153
EIRP(dBm)	19.80	19.81	19.73	19.82	19.98	19.97	19.38	19.76	20.12
EIRP(Watts)	0.0955	0.0957	0.0940	0.0959	0.0995	0.0993	0.0867	0.0946	0.1028

LTE Band 41 CA (GT - LC = -0.50 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)	20.26	20.34	20.35	20.33	20.33	20.61	20.41	20.35	20.42
Conducted Power (Watts)	0.1062	0.1081	0.1084	0.1079	0.1079	0.1151	0.1099	0.1084	0.1102
EIRP(dBm)	19.76	19.84	19.85	19.83	19.83	20.11	19.91	19.85	19.92
EIRP(Watts)	0.0946	0.0964	0.0966	0.0962	0.0962	0.1026	0.0979	0.0966	0.0982



LTE Band 41 CA (GT - LC = -0.50 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	20.33	20.53	20.72	20.67	21.59
Conducted Power (Watts)	0.1086	0.1079	0.1130	0.1180	0.1167	0.1442
EIRP(dBm)	19.86	19.83	20.03	20.22	20.17	21.09
EIRP(Watts)	0.0968	0.0962	0.1007	0.1052	0.1040	0.1285

LTE Band 41 CA (GT - LC = -0.50 dB) 64QAM						
Bandwidth	15M+10M			10M+15M		
Channel PCC	39725	40571	41417	39703	40549	41395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39845	40691	41537	39823	40669	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.33	20.22	20.41	20.24	20.32	20.43
Conducted Power (Watts)	0.1079	0.1052	0.1099	0.1057	0.1076	0.1104
EIRP(dBm)	19.83	19.72	19.91	19.74	19.82	19.93
EIRP(Watts)	0.0962	0.0938	0.0979	0.0942	0.0959	0.0984

**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	3.62	4.46	4.17	5.45	PASS
Middle CH	3.62	4.41	4.06	5.48	
Highest CH	3.54	4.58	3.97	5.59	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.38	5.42			PASS
Middle CH	4.64	5.45			
Highest CH	4.46	5.59			

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.49	4.32	5.48	PASS
Middle CH	3.48	4.49	4.09	5.51	
Highest CH	3.54	4.43	4.23	5.51	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.29	5.54			PASS
Middle CH	4.20	5.54			
Highest CH	4.49	5.48			



Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	4.46	4.46	5.48	PASS
Middle CH	3.51	4.43	4.23	5.51	
Highest CH	3.48	4.61	4.06	5.54	
Mod.		64QAM			Limit: 13dB
RB Size	1RB		Full RB		Result
Lowest CH	4.35		5.48		PASS
Middle CH	4.29		5.51		
Highest CH	4.49		5.54		

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.49	4.52	5.45	PASS
Middle CH	3.57	4.46	4.67	5.45	
Highest CH	3.51	4.55	4.29	5.54	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM			Limit: 13dB	
RB Size	1RB	Full RB			Result
Lowest CH	4.43	5.45			PASS
Middle CH	4.43	5.45			
Highest CH	4.41	5.51			

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.52	4.2	5.54	PASS
Middle CH	3.54	4.55	4.41	5.54	
Highest CH	3.51	4.58	4.23	5.59	
Mod.		64QAM			Limit: 13dB
RB Size	1RB		Full RB		Result
Lowest CH	4.38		5.54		PASS
Middle CH	4.32		5.57		
Highest CH	4.35		5.54		



Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.33	4.78	3.97	5.68	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.35	6	-	-	
Highest CH	-	-	-	-	

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.55	4.55	5.51	PASS
Middle CH	3.51	4.58	4.35	5.51	
Highest CH	3.51	4.58	4.2	5.57	
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.32	5.57			PASS
Middle CH	4.38	5.57			
Highest CH	4.14	5.51			

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.41	4.29	5.42	PASS
Middle CH	3.51	4.38	4.14	5.45	
Highest CH	3.51	4.55	4.03	5.54	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.2	5.39			PASS
Middle CH	4.26	5.42			
Highest CH	4.12	5.54			



Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.41	4.2	5.42	PASS
Middle CH	3.54	4.52	4.2	5.48	
Highest CH	3.54	4.61	4.35	5.54	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.2	5.42			PASS
Middle CH	4.23	5.48			
Highest CH	4.29	5.62			

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.12	4.64	4.87	6.9	PASS
Middle CH	4.84	7.07	5.36	6.17	
Highest CH	3.88	7.07	4.23	7.07	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.57	5.94			PASS
Middle CH	4.93	5.83			
Highest CH	5.77	5.83			

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.88	6.96	5.77	8.03	PASS
Middle CH	4.26	7.19	5.10	7.28	
Highest CH	6.14	4.93	7.54	6.61	
Mode	LTE Band 41/ 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.61	6.38			PASS
Middle CH	7.01	6.90			
Highest CH	6.58	7.68			



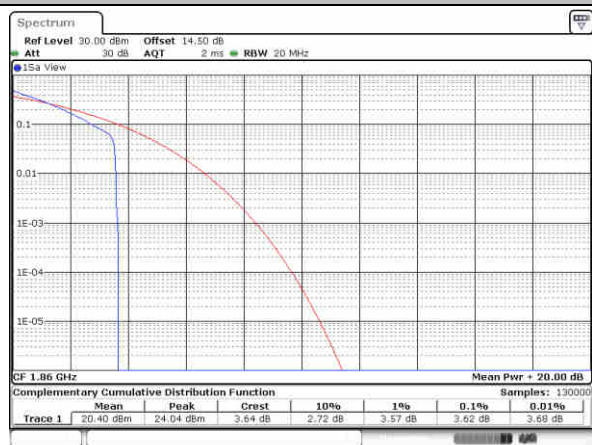
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.52	4.23	5.51	PASS
Middle CH	3.54	4.46	4.14	5.57	
Highest CH	3.54	4.52	4.23	5.62	
Mode	LTE Band 66/ 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.43	5.48			PASS
Middle CH	4.17	5.48			
Highest CH	4.14	5.59			

Mode	LTE Band 71 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	5.07	4.55	5.94	PASS
Middle CH	3.51	4.87	4.26	5.83	
Highest CH	3.80	5.04	4.38	5.91	
Mode	LTE Band 71 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.36	6.38			PASS
Middle CH	5.25	6.38			
Highest CH	5.59	6.46			

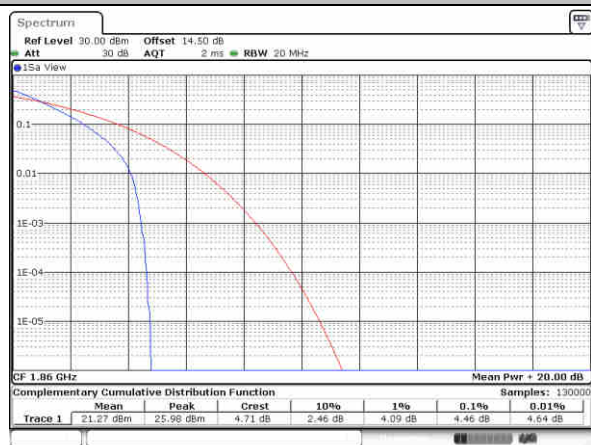


LTE Band 2 / 20MHz / QPSK

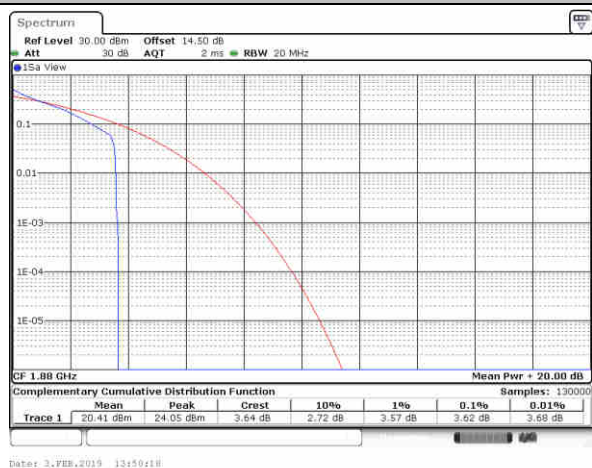
Lowest Channel / 1RB



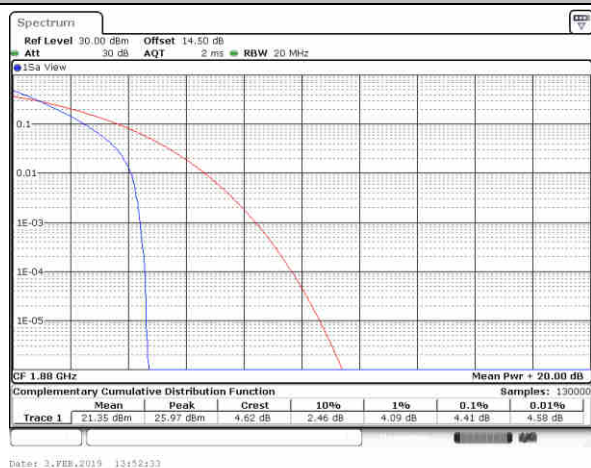
Lowest Channel / Full RB



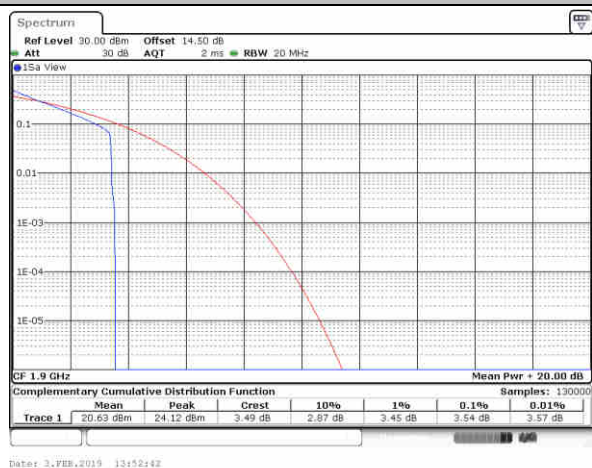
Middle Channel / 1RB



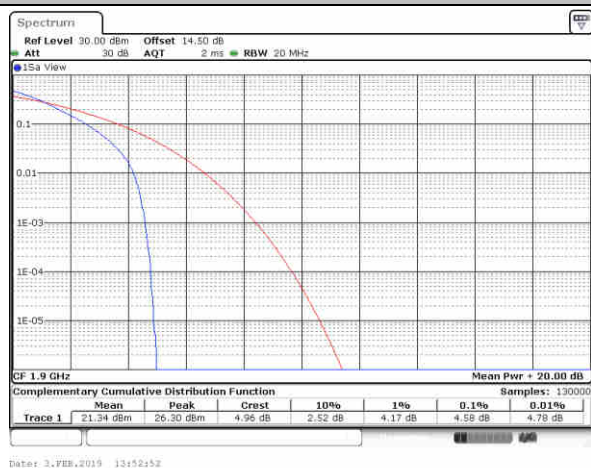
Middle Channel / Full RB



Highest Channel / 1RB



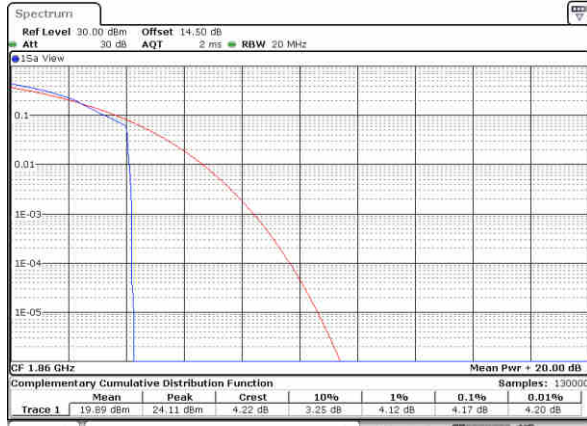
Highest Channel / Full RB



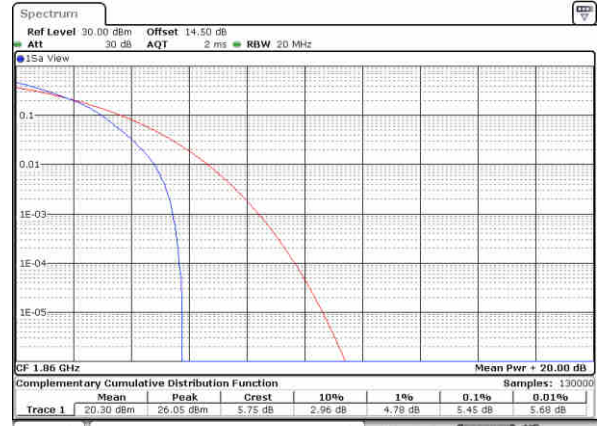


LTE Band 2 / 20MHz / 16QAM

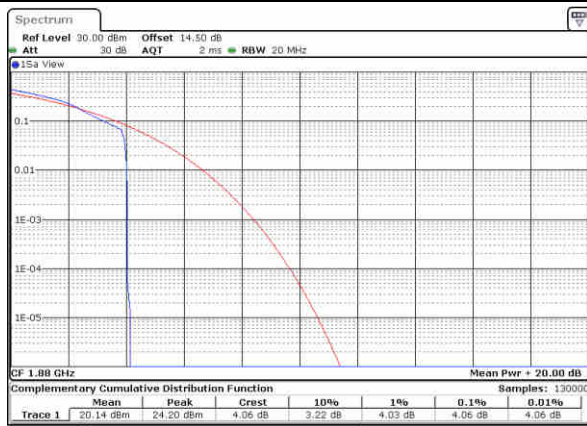
Lowest Channel / 1RB



Lowest Channel / Full RB



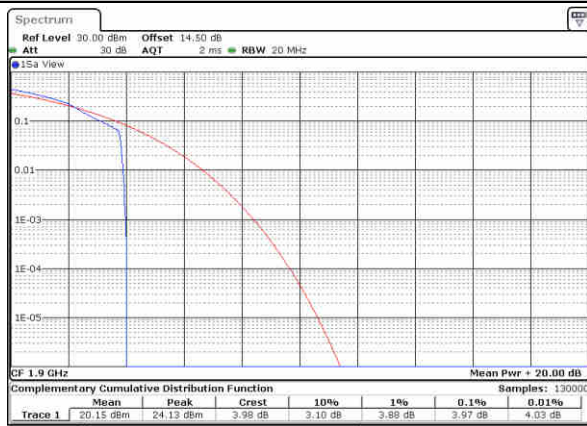
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



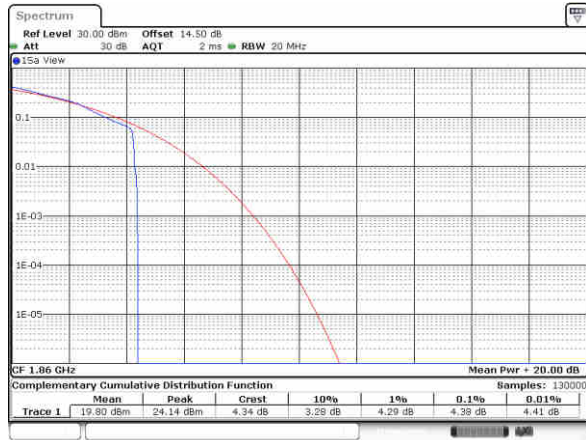
Highest Channel / Full RB



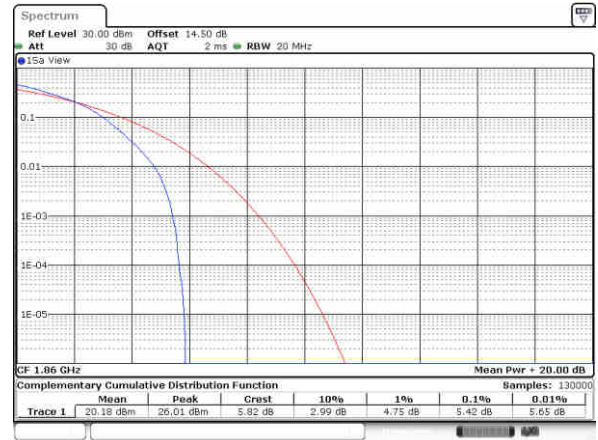


LTE Band 2 / 20MHz / 64QAM

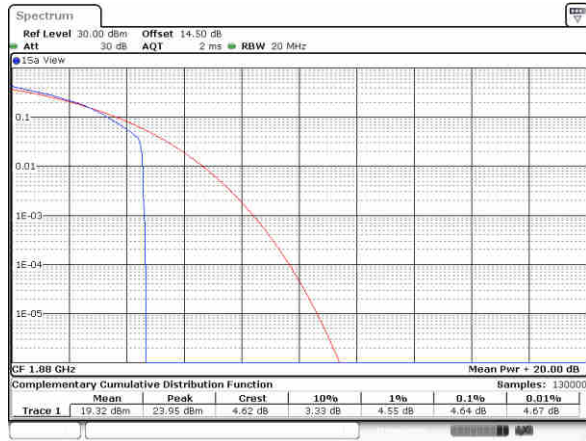
Lowest Channel / 1RB



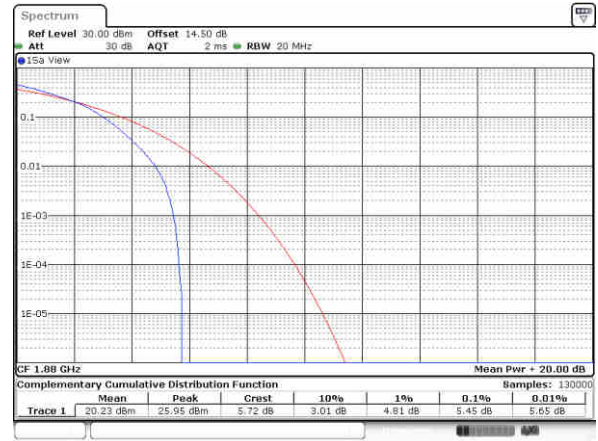
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



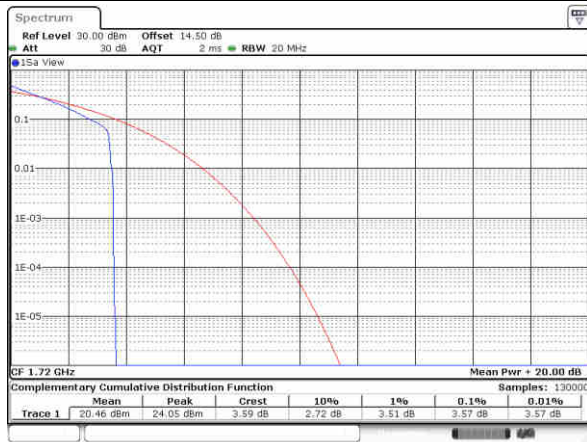
Highest Channel / Full RB





LTE Band 4 / 20MHz / QPSK

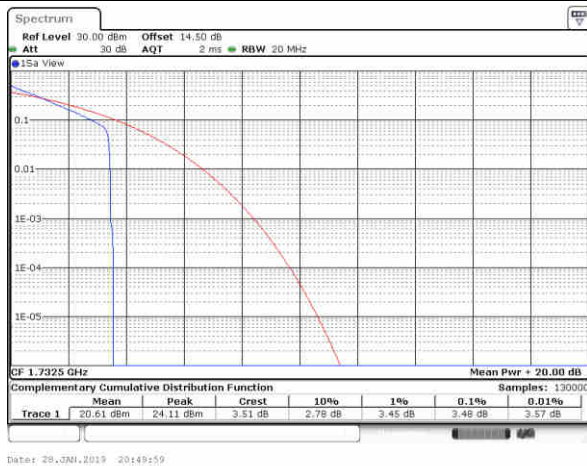
Lowest Channel / 1RB



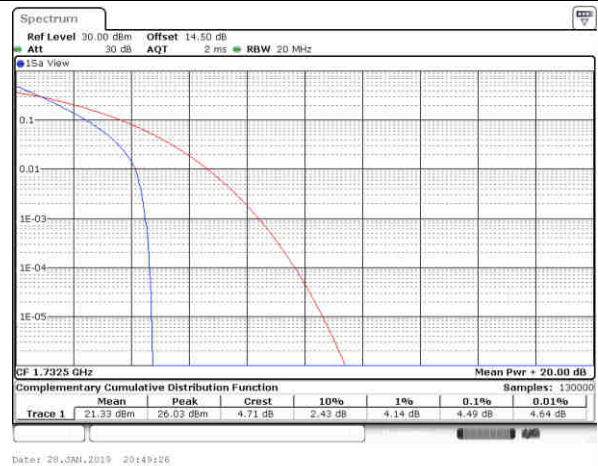
Lowest Channel / Full RB



Middle Channel / 1RB



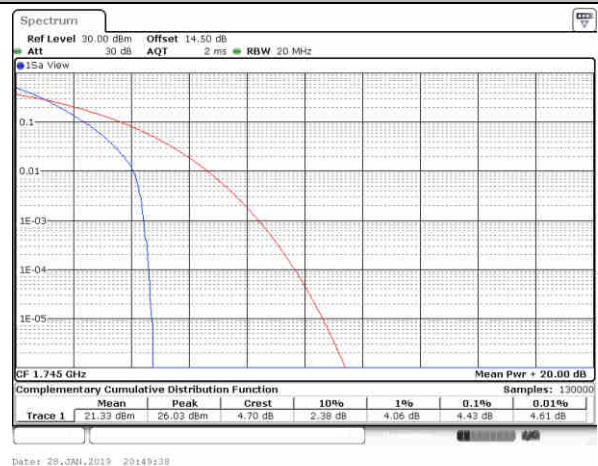
Middle Channel / Full RB



Highest Channel / 1RB



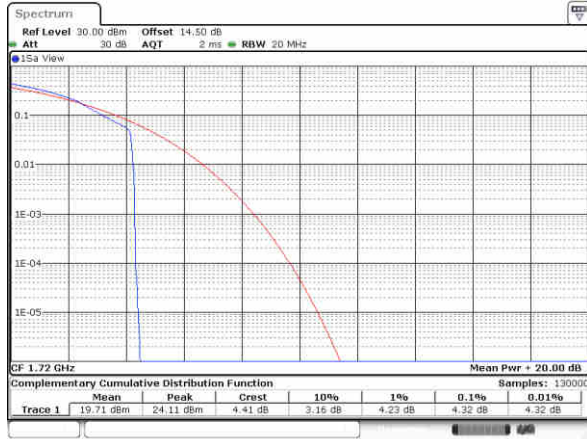
Highest Channel / Full RB



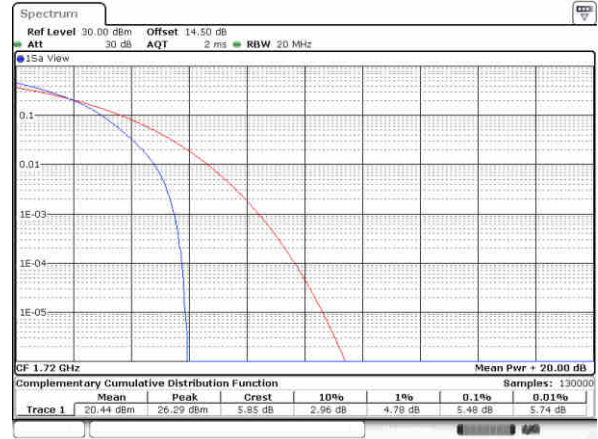


LTE Band 4 / 20MHz / 16QAM

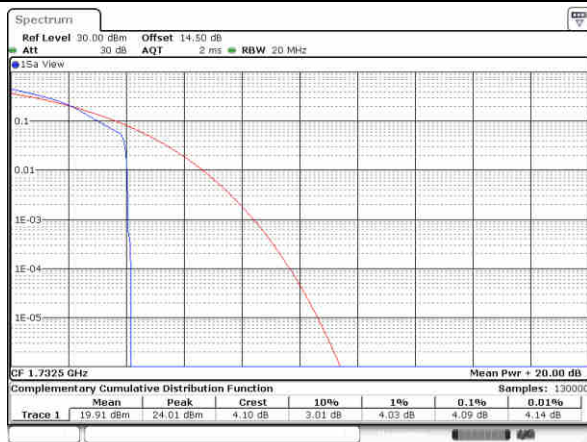
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



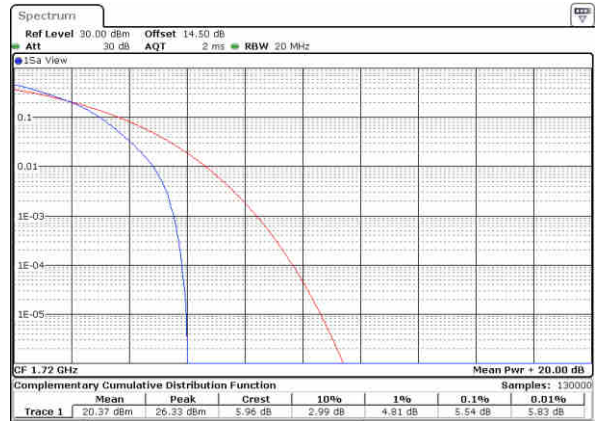


LTE Band 4 / 20MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



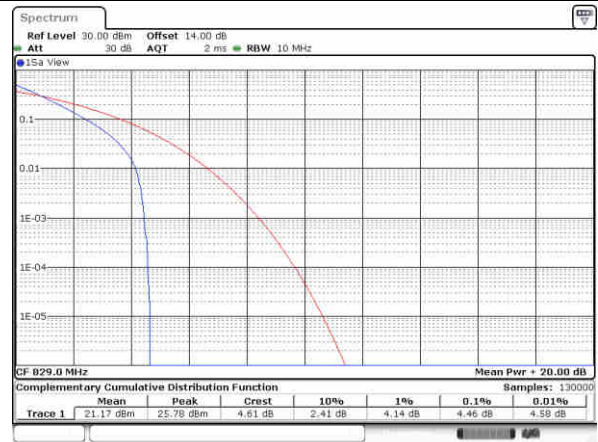


LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



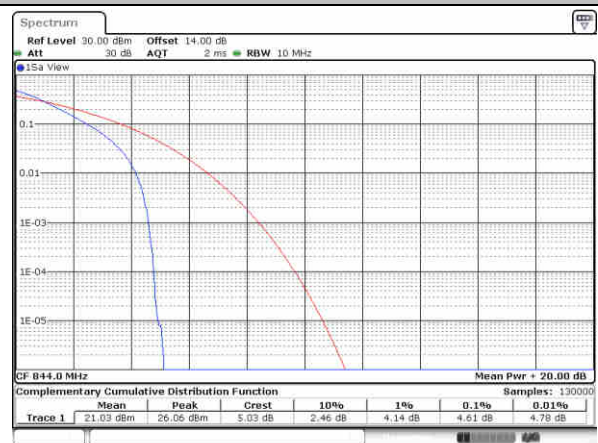
Middle Channel / Full RB



Highest Channel / 1RB



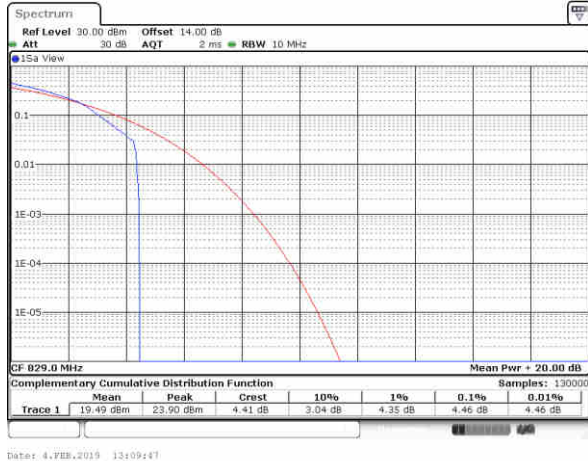
Highest Channel / Full RB



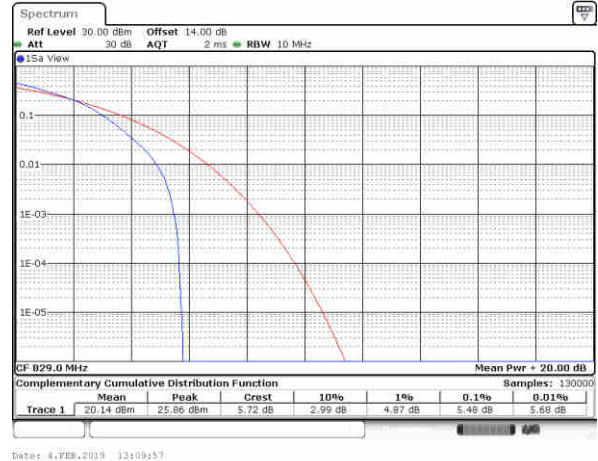


LTE Band 5 / 10MHz / 16QAM

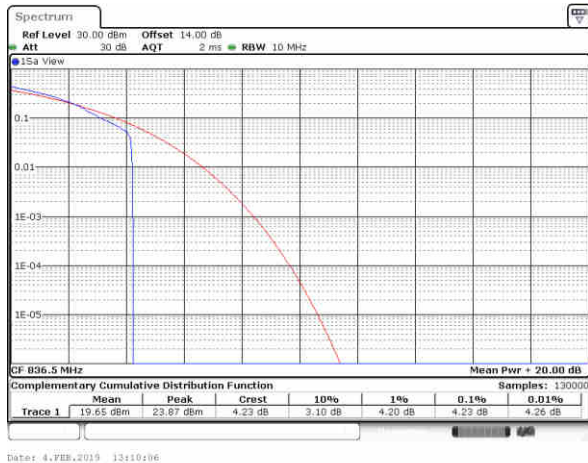
Lowest Channel / 1RB



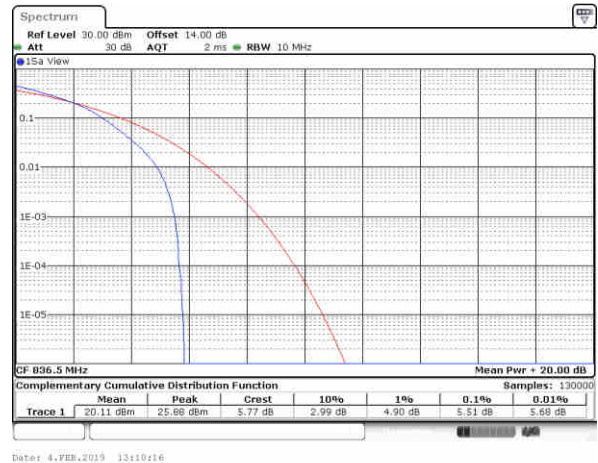
Lowest Channel / Full RB



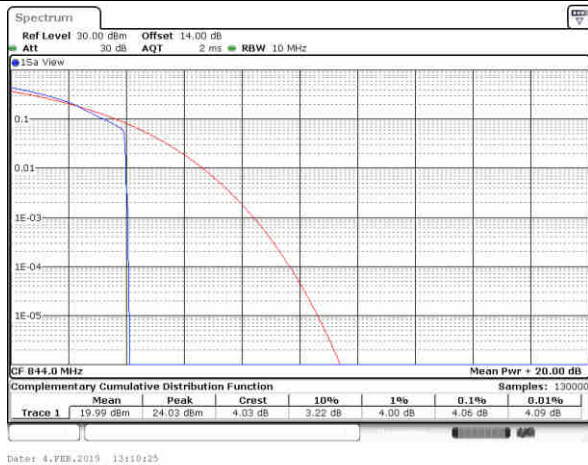
Middle Channel / 1RB



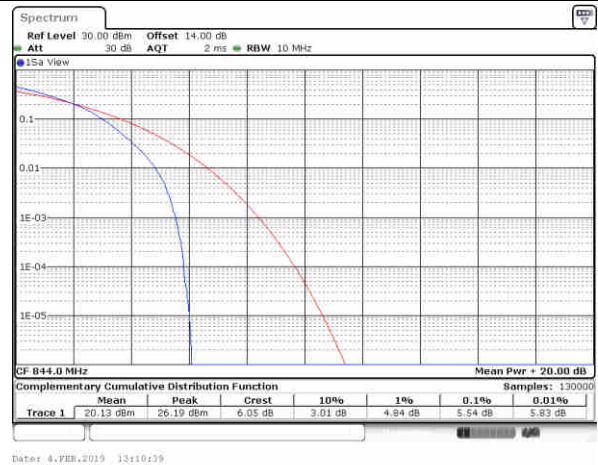
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





LTE Band 5 / 10MHz / 64QAM

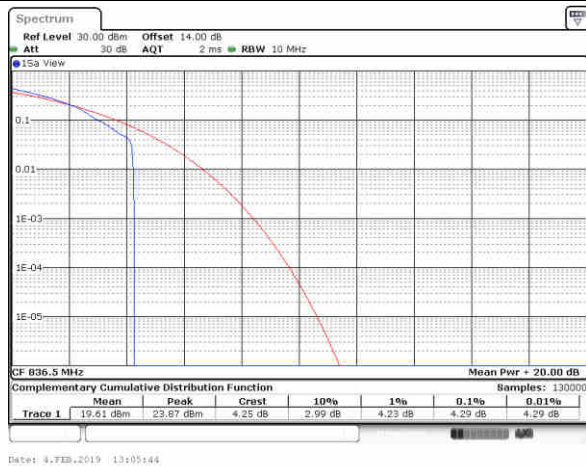
Lowest Channel / 1RB



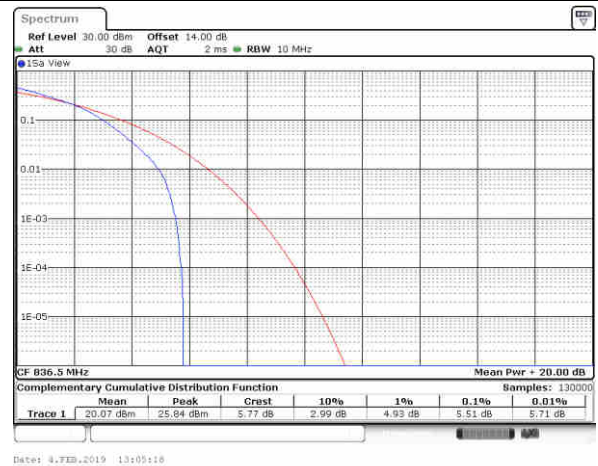
Lowest Channel / Full RB



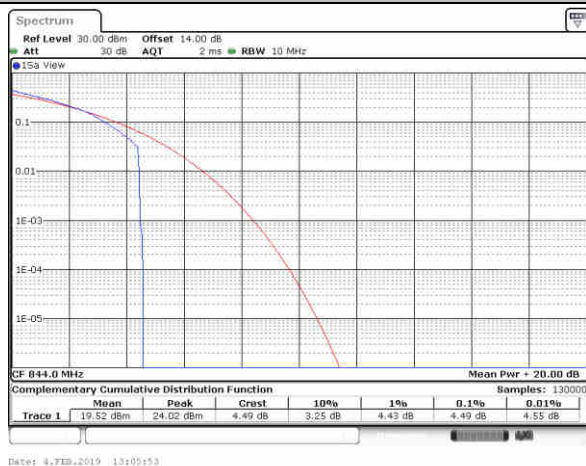
Middle Channel / 1RB



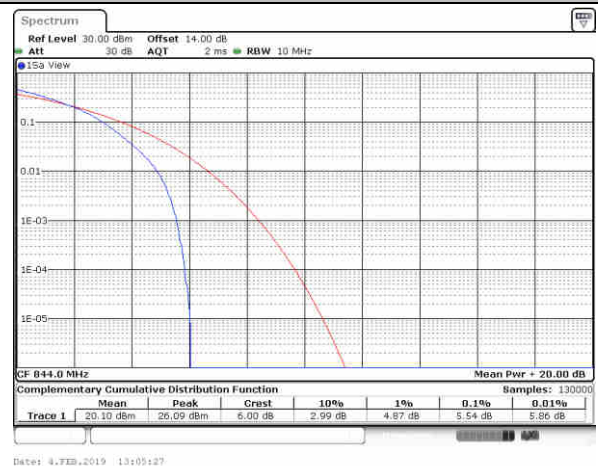
Middle Channel / Full RB



Highest Channel / 1RB



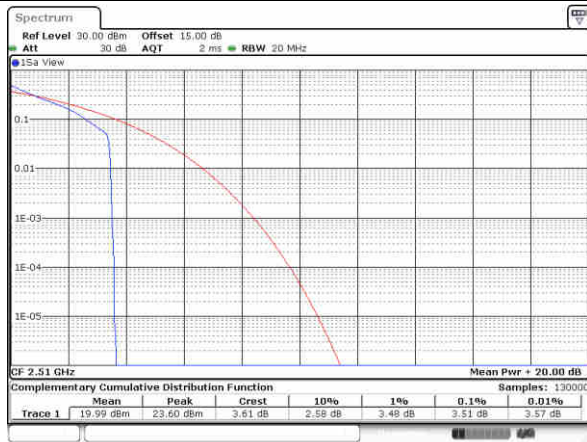
Highest Channel / Full RB





LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



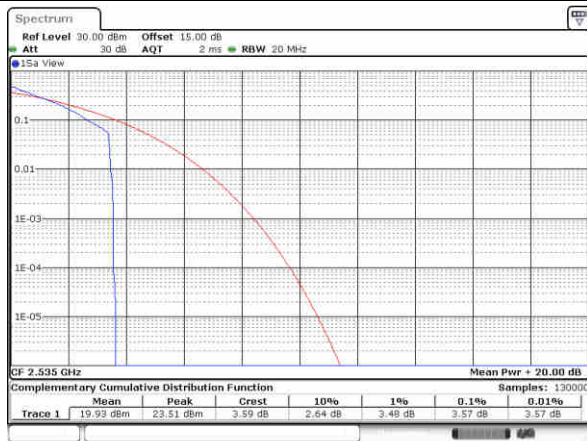
Date: 11.FEB.2019 14:57:07

Lowest Channel / Full RB



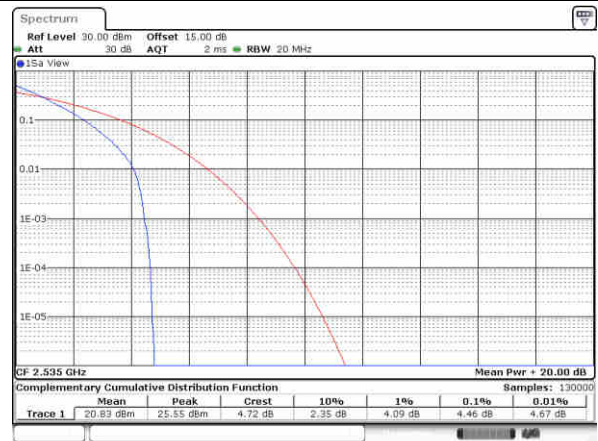
Date: 11.FEB.2019 14:56:28

Middle Channel / 1RB



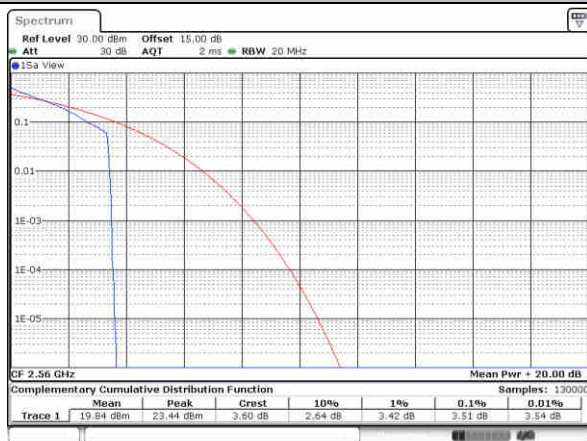
Date: 11.FEB.2019 14:57:16

Middle Channel / Full RB



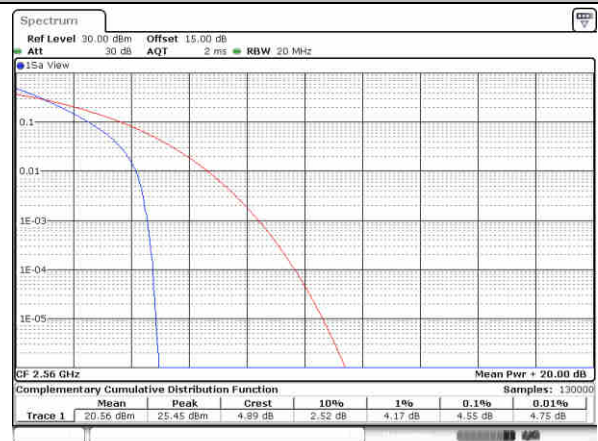
Date: 11.FEB.2019 14:56:47

Highest Channel / 1RB



Date: 11.FEB.2019 14:57:26

Highest Channel / Full RB



Date: 11.FEB.2019 14:56:56

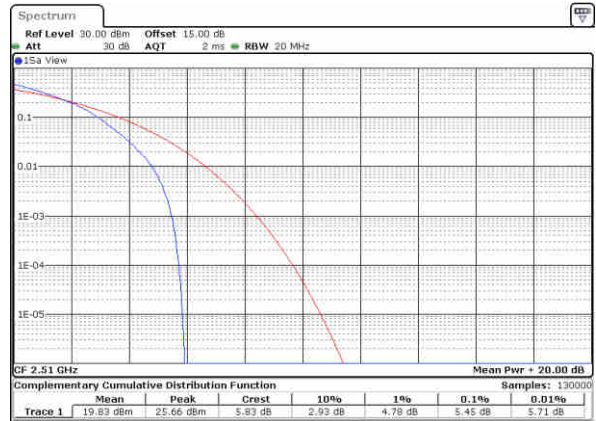


LTE Band 7 / 20MHz / 16QAM

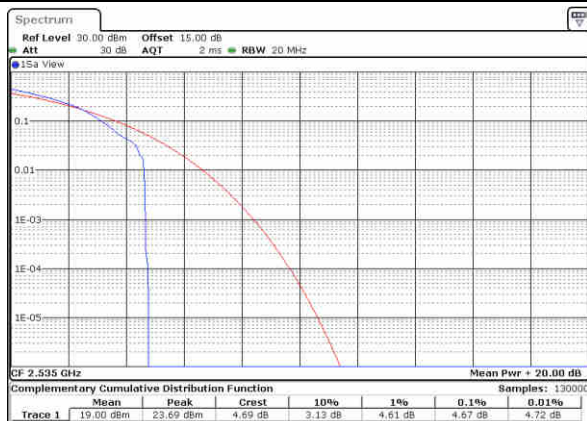
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



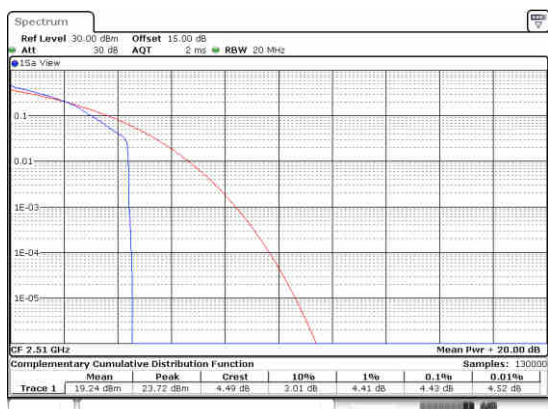
Highest Channel / Full RB



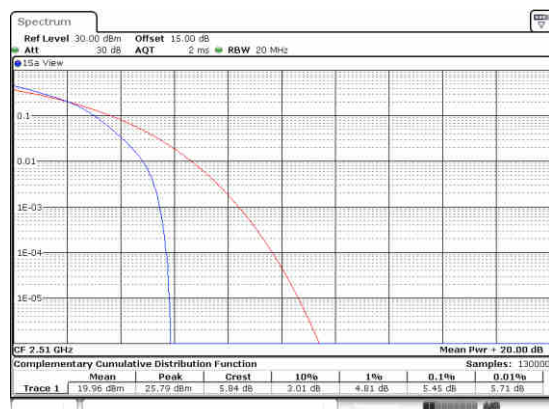


LTE Band 7 / 20MHz / 64QAM

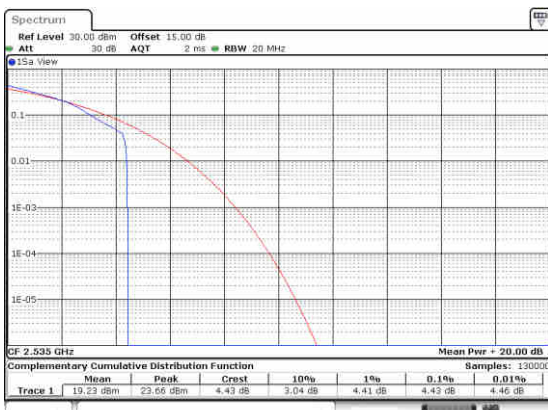
Lowest Channel / 1RB



Lowest Channel / Full RB



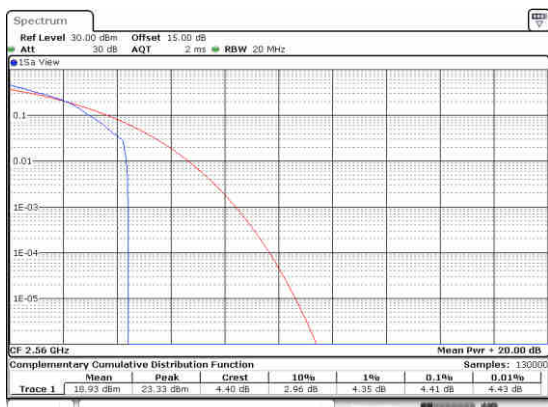
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



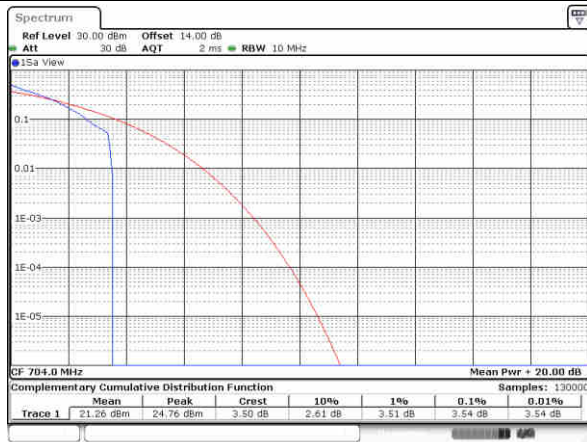
Highest Channel / Full RB





LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



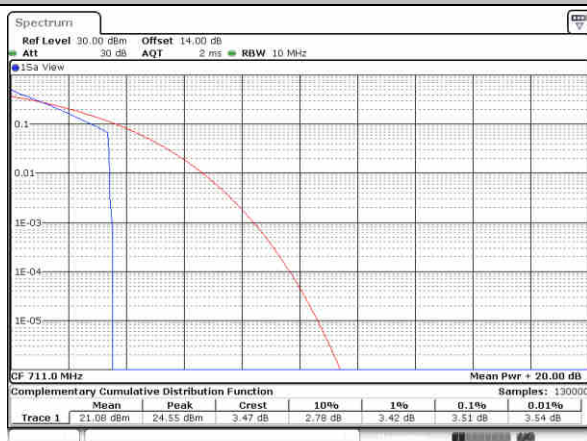
Middle Channel / 1RB



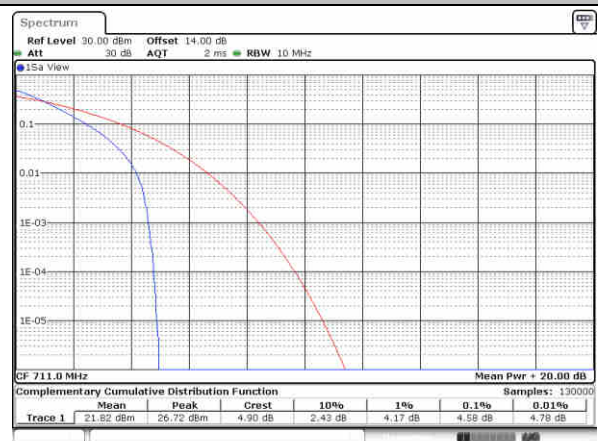
Middle Channel / Full RB



Highest Channel / 1RB



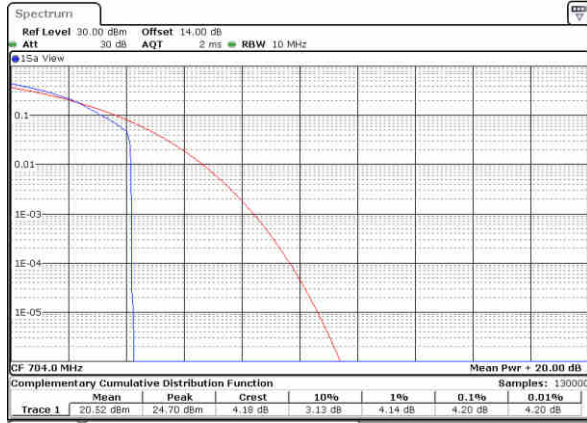
Highest Channel / Full RB



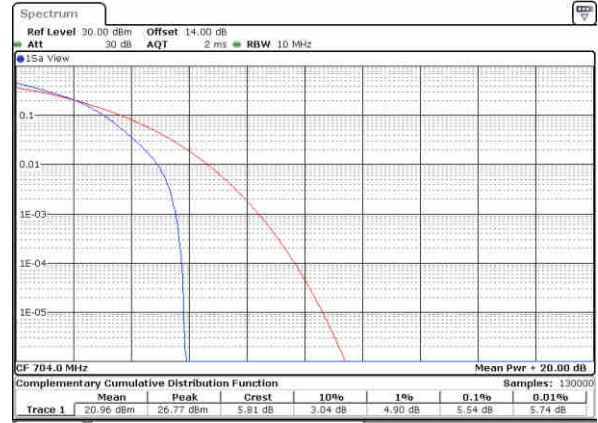


LTE Band 12 / 10MHz / 16QAM

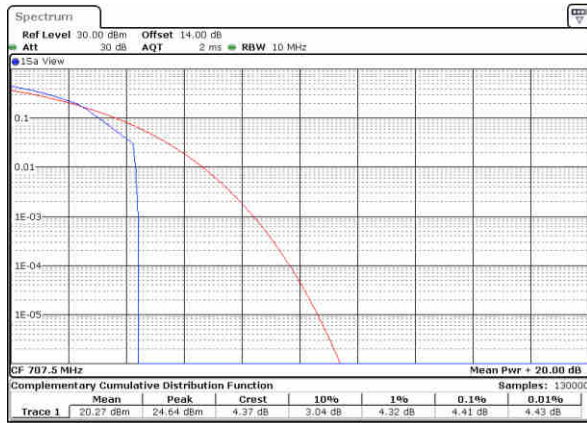
Lowest Channel / 1RB



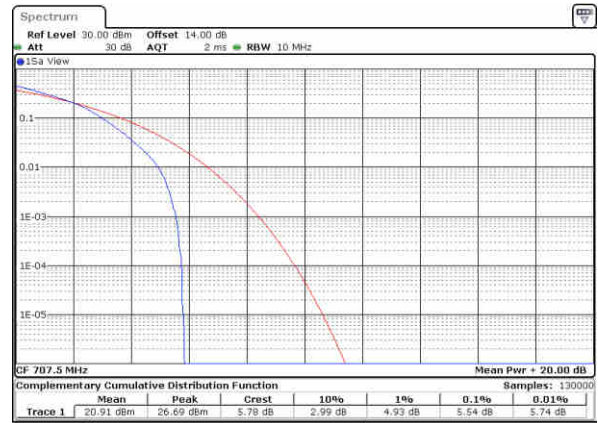
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



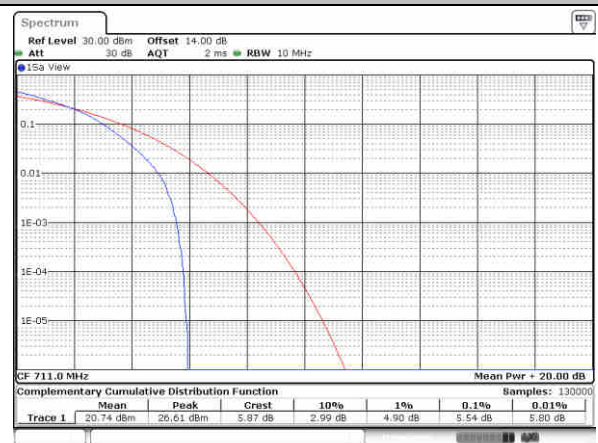
Middle Channel / Full RB

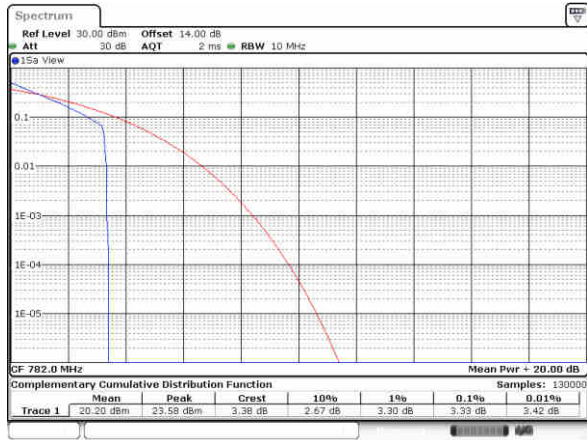


Highest Channel / 1RB

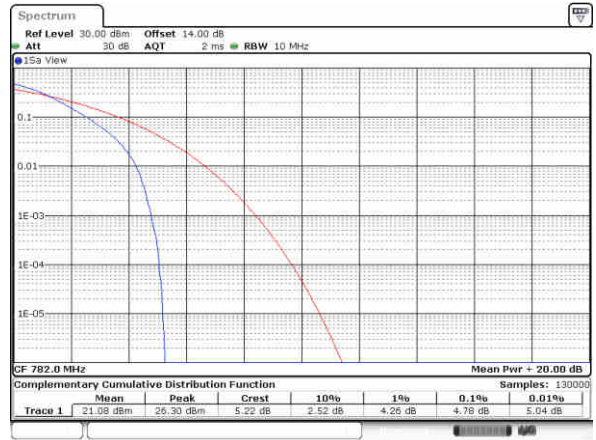


Highest Channel / Full RB



LTE Band 13 / 10MHz / QPSK
Middle Channel/ 1RB


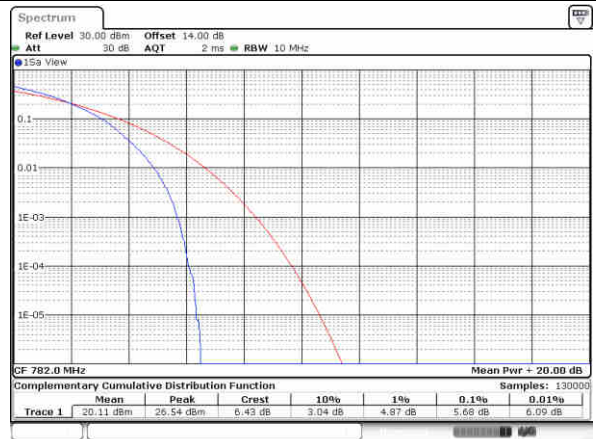
Date: 4.FEB.2019 19:52:02

Middle Channel / Full RB


Date: 4.FEB.2019 19:52:15

LTE Band 13 / 10MHz / 16QAM
Middle Channel/ 1RB

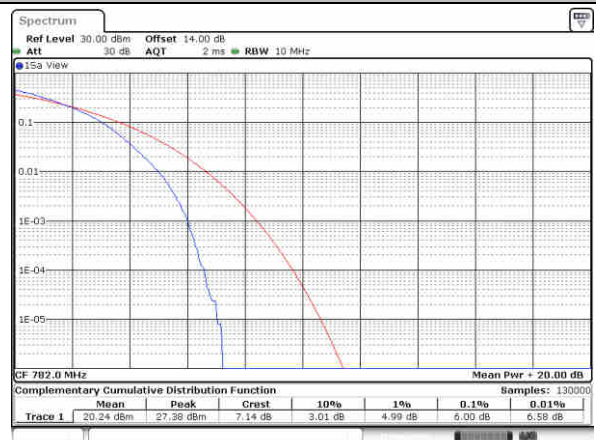

Date: 4.FEB.2019 19:51:40

Middle Channel / Full RB


Date: 4.FEB.2019 19:51:50

LTE Band 13 / 10MHz / 64QAM
Middle Channel / 1RB


Date: 8.MAR.2019 09:35:17

Middle Channel / Full RB


Date: 8.MAR.2019 09:35:27