



FCC RF Test Report

APPLICANT : TCL Communication Ltd
EQUIPMENT : 5G NR/ LTE/WCDMA/GSM Mobile Phone
BRAND NAME : TCL
MODEL NAME : T790S
FCC ID : 2ACCJN042
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H),
27(F)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 19, 2020 and completely tested on Jul. 27, 2020. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG051926B	Rev. 01	Initial issue of report	Aug. 13, 2020

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)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	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 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§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 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 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 66)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 10.36 dB at 1559.500 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	$< 55 + 10\log_{10}(P[\text{Watts}])$		

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

TCL Communication Ltd

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.2 Manufacturer

TCL Communication Ltd

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G NR/ LTE/WCDMA/GSM Mobile Phone
Brand Name	TCL
Model Name	T790S
FCC ID	2ACCJN042
EUT supports Radios application	GSM/WCDMA/LTE/5G NR/NFC/GNSS WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
IMEI Code	Conducted: NA Radiation: 015749000013685
HW Version	03
SW Version	1B6GTWG0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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 66 : 1710.7 MHz ~ 1779.3 MHz
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 66 : 2110.7 MHz~ 2199.3 MHz
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 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 24.31 dBm LTE Band 4 : 24.44 dBm LTE Band 5 : 23.81 dBm LTE Band 7 : 24.47 dBm LTE Band 12 : 23.90 dBm LTE Band 13 : 23.93 dBm LTE Band 66 : 24.49 dBm LTE Band CA_5B : 23.71 dBm LTE Band CA_66B : 23.97 dBm LTE Band CA_66C : 24.24 dBm
Antenna Gain	LTE Band 2 : -0.96 dBi LTE Band 4 : -0.96 dBi LTE Band 5 : -2.3 dBi LTE Band 7 : -1.2 dBi LTE Band 12 : -1.9 dBi LTE Band 13 : -2.2 dBi LTE Band 66 : -0.96 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

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	-	0.2113	1M09W7D	-	0.1816
3	1851.5 ~ 1908.5	2M73G7D	-	0.2158	2M74W7D	-	0.1832
5	1852.5 ~ 1907.5	4M50G7D	-	0.2143	4M50W7D	-	0.1849
10	1855.0 ~ 1905.0	9M03G7D	0.0028	0.2143	9M03W7D	-	0.1854
15	1857.5 ~ 1902.5	13M5G7D	-	0.2153	13M5W7D	-	0.1879
20	1860.0 ~ 1900.0	18M5G7D	-	0.2163	18M5W7D	-	0.1905
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		-		0.1446	
3	1851.5 ~ 1908.5	2M73W7D		-		0.1442	
5	1852.5 ~ 1907.5	4M51W7D		-		0.1429	
10	1855.0 ~ 1905.0	9M03W7D		-		0.1493	
15	1857.5 ~ 1902.5	13M5W7D		-		0.1507	
20	1860.0 ~ 1900.0	18M5W7D		-		0.1503	



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	-	0.2218	1M10W7D	-	0.1905
3	1711.5 ~ 1753.5	2M73G7D	-	0.2234	2M74W7D	-	0.1932
5	1712.5 ~ 1752.5	4M50G7D	-	0.2244	4M51W7D	-	0.1923
10	1715.0 ~ 1750.0	9M03G7D	0.0034	0.2254	9M03W7D	-	0.1945
15	1717.5 ~ 1747.5	13M5G7D	-	0.2228	13M5W7D	-	0.1923
20	1720.0 ~ 1745.0	18M4G7D	-	0.2254	18M4W7D	-	0.1963
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	1M10W7D		-		0.1472	
3	1711.5 ~ 1753.5	2M73W7D		-		0.1503	
5	1712.5 ~ 1752.5	4M51W7D		-		0.1500	
10	1715.0 ~ 1750.0	9M05W7D		-		0.1542	
15	1717.5 ~ 1747.5	13M5W7D		-		0.1507	
20	1720.0 ~ 1745.0	18M5W7D		-		0.1528	



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	1M09G7D	-	0.2218	1M10W7D	-	0.1905
3	1711.5 ~ 1778.5	2M73G7D	-	0.2234	2M74W7D	-	0.1932
5	1712.5 ~ 1777.5	4M50G7D	-	0.2244	4M51W7D	-	0.1923
10	1715.0 ~ 1775.0	9M03G7D	0.0034	0.2254	9M03W7D	-	0.1945
15	1717.5 ~ 1772.5	13M5G7D	-	0.2228	13M5W7D	-	0.1923
20	1720.0 ~ 1770.0	18M4G7D	-	0.2254	18M4W7D	-	0.1963
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	1M10W7D		-		0.1472	
3	1711.5 ~ 1778.5	2M73W7D		-		0.1503	
5	1712.5 ~ 1777.5	4M51W7D		-		0.1500	
10	1715.0 ~ 1775.0	9M05W7D		-		0.1542	
15	1717.5 ~ 1772.5	13M5W7D		-		0.1507	
20	1720.0 ~ 1770.0	18M5W7D		-		0.1528	



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	-	0.0851	1M09W7D	-	0.0676
3	825.5 ~ 847.5	2M72G7D	-	0.0847	2M72W7D	-	0.0684
5	826.5 ~ 846.5	4M50G7D	-	0.0861	4M51W7D	-	0.0706
10	829.0 ~ 844.0	9M07G7D	0.0060	0.0863	9M05W7D	-	0.0736
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		-	0.0526		
3	825.5 ~ 847.5	2M73W7D		-	0.0542		
5	826.5 ~ 846.5	4M50W7D		-	0.0562		
10	829.0 ~ 844.0	9M07W7D		-	0.0596		

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	-	0.2089	4M50W7D	-	0.1875
10	2505.0 ~ 2565.0	9M07G7D	0.0065	0.2109	9M05W7D	-	0.1884
15	2507.5 ~ 2562.5	13M5G7D	-	0.2113	13M4W7D	-	0.1888
20	2510.0 ~ 2560.0	18M4G7D	-	0.2123	18M4W7D	-	0.1854
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		-	0.1479		
10	2505.0 ~ 2565.0	9M01W7D		-	0.1469		
15	2507.5 ~ 2562.5	13M5W7D		-	0.1449		
20	2510.0 ~ 2560.0	18M4W7D		-	0.1416		



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	-	0.0916	1M09W7D	-	0.0780
3	700.5 ~ 714.5	2M75G7D	-	0.0944	2M72W7D	-	0.0809
5	701.5 ~ 713.5	4M50G7D	-	0.0946	4M50W7D	-	0.0802
10	704.0 ~ 711.0	9M05G7D	0.0044	0.0966	9M01W7D	-	0.0832
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		-		0.0617	
3	700.5 ~ 714.5	2M74W7D		-		0.0635	
5	701.5 ~ 713.5	4M49W7D		-		0.0628	
10	704.0 ~ 711.0	9M03W7D		-		0.0673	

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	4M49G7D	-	0.0902	4M50W7D	-	0.0766
10	782.0	8M99G7D	0.0054	0.0908	8M97W7D	-	0.0767
LTE Band 13		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
5	779.5 ~ 784.5	4M50W7D		-		0.0604	
10	782.0	8M99W7D		-		0.0628	



LTE Band 5B_CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
10MHz+10MHz	19M2G7D	-	0.0843	19M4W7D	-	0.0678
LTE Band 5B_CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
10MHz+10MHz	19M3W7D		-		0.0585	

LTE Band 66B_CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
15MHz+5MHz	18M2G7D	-	0.2000	18M2W7D	-	0.1603
LTE Band 66B_CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
15MHz+5MHz	18M2W7D		-		0.1306	

LTE Band 66C_CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
20MHz+20MHz	37M5G7D	-	0.2128	37M7W7D	-	0.1687
LTE Band 66C_CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
20MHz+20MHz	37M6W7D		-		0.1403	

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. LTE band 5B/66B/66C only show the maximum power and maximum bandwidth combination in the report.



1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a
2.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H), 27(F)
- ♦ 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
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v	v		v	v	v	v
	4						v	v	v	v	v		v	v	v	v
	5				v	-	-	v	v	v	v		v	v	v	v
	7	-	-				v	v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v	v	v	v
	66						v	v	v	v	v		v	v	v	v



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	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
	66	v	v	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
	66	v	v	v	v	v	v	v	v	v	v		v	v		v
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
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	66				v			v					v		v	



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	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
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	4	Worst Case													v	
	5	Worst Case													v	
	7	Worst Case													v	
	12	Worst Case													v	
	13	Worst Case													v	
	66	Worst Case													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. 4. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.															



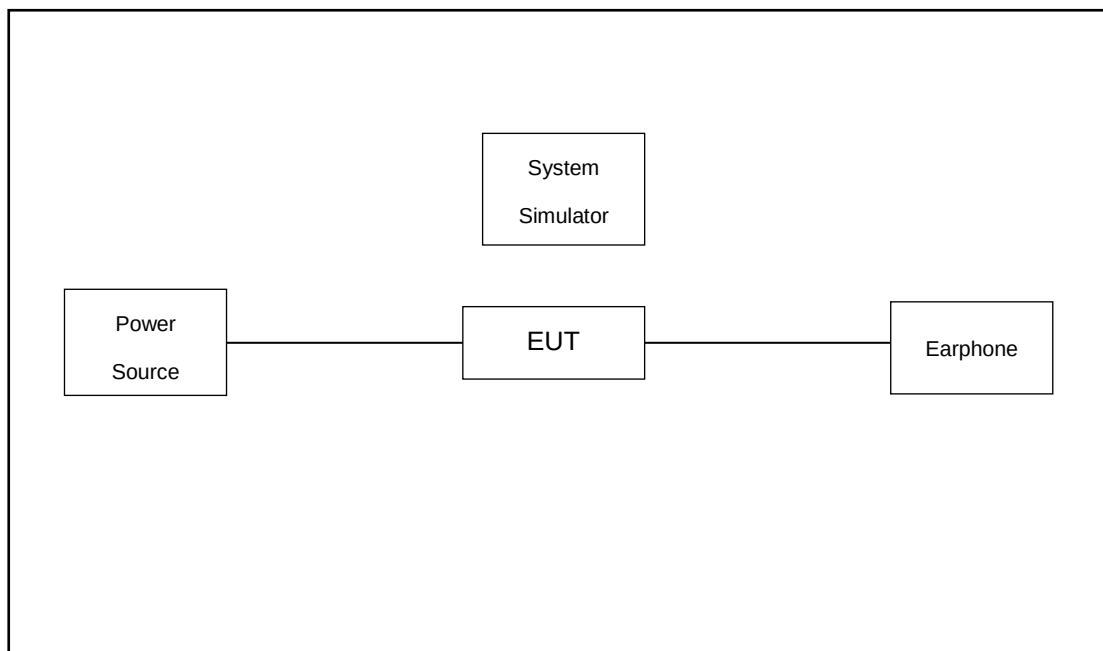
Test Items	Band	Bandwidth (MHz)					Modulation			RB #			Test Channel		
		3+5	5+3	5+10	10+5	10+10	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	5B_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	5B_CA	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	5B_CA	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	5B_CA	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	5B_CA	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	5B_CA	Worst Case												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.														

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	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	66C_CA	Worst Case																	v	
Note	4. The mark “v” means that this configuration is chosen for testing 5. The mark “-” means that this bandwidth is not supported. 6. 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		
		5+5	5+10	5+15	10+10	10+5	15+5	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	66B_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	66B_CA	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	66B_CA	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	66B_CA	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	66B_CA	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	66B_CA	Worst Case													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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
3.	Earphone	Moto	SH38C16618	N/A	Unshielded,1.2m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.00 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.00 \text{ (dB)} \end{aligned}$$



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 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 5B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 10	PCC	Channel	20428	20478	20528
		Frequency	826.8	831.8	836.8
	SCC	Channel	20500	20550	20600
		Frequency	834	839	844
10 + 5	PCC	Channel	20450	20500	20550
		Frequency	829	834	839
	SCC	Channel	20522	20572	20622
		Frequency	836.2	841.2	846.2
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844

LTE Band 66C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	132171	132472	132572
		Frequency	1729.9	1760	1770
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	Channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597



		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	Channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720	1752.5	1765
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7
5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3
	SCC	Channel	132122	132447	132572
		Frequency	1725	1757.5	1770
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720	1745.1	1750.2
	SCC	Channel	132270	132521	132572
		Frequency	1739.8	1764.9	1770

LTE Band 66B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2



5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	132491	132642
		Frequency	1726.8	1761.9	1777
10 + 10	PCC	Channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	Channel	132121	132472	132622
		Frequency	1724.9	1760	1775

3 Conducted Test Items

3.1 Measuring Instruments

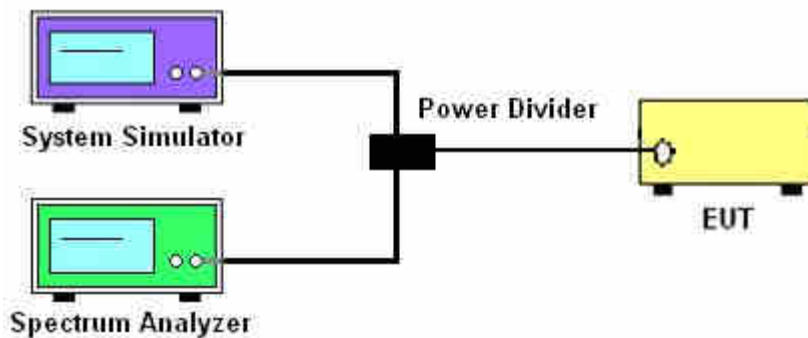
See list of measuring instruments of this test report.

3.2 Test Setup

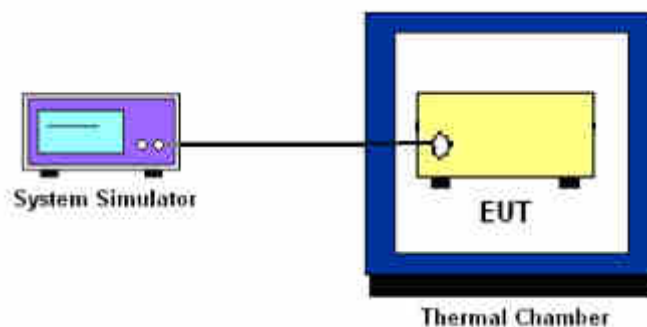
3.2.1 Conducted Output Power



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.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13.

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

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, 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:

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
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.

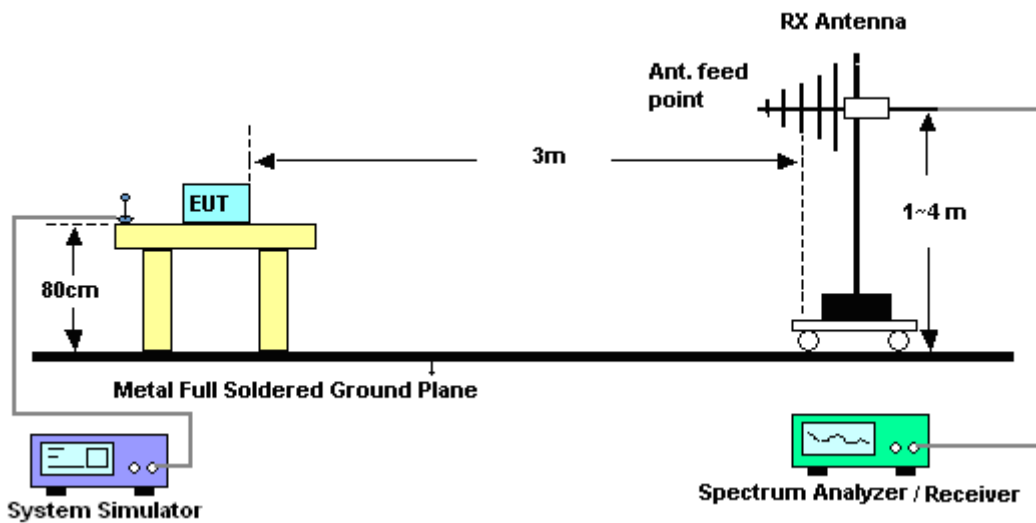
4 Radiated Test Items

4.1 Measuring Instruments

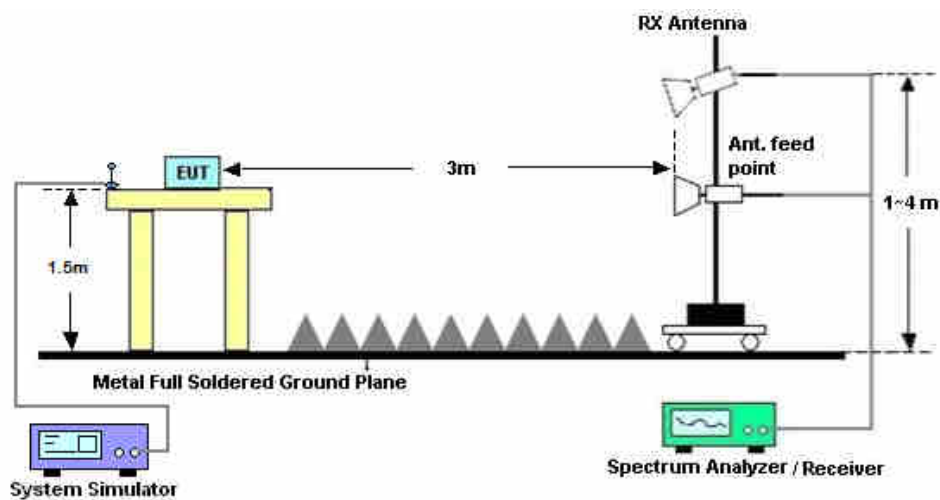
See list of measuring instruments of this test report.

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. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
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:

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	FSV30	101338	10Hz~30GHz	Apr. 14,2020	Jun. 25, 2020~ Jul. 25, 2020	Apr. 13, 2021	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 18, 2019	Jun. 25, 2020~ Jul. 25, 2020	Nov. 17, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jul. 27, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 02, 2020	Jul. 27, 2020	Jan. 03, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jul. 27, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jul. 27, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Jul. 27, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jul. 27, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1	2025788	1Ghz-18Ghz	Jan. 02, 2020	Jul. 27, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Jul. 27, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 27, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 27, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 27, 2020	NCR	Radiation (03CH04-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 21, 2020	Jul. 22, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 27, 2019	Jul. 22, 2020	Dec. 26, 2020	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Jul. 22, 2020	Jul. 14, 2021	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 26, 2019	Jul. 22, 2020	Jul. 25, 2020	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 17, 2020	Jul. 22, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2020	Jul. 22, 2020	Apr. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 18, 2019	Jul. 22, 2020	Oct. 17, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jul. 22, 2020	Jul. 20, 2021	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jul. 22, 2020	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 22, 2020	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 22, 2020	NCR	Radiation (03CH01-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.

For 03CH04-KS:

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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For 03CH01-SZ:

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	24.26	24.31	24.30
20	QPSK	1	49	24.20	24.18	24.26
20	QPSK	1	99	24.30	24.17	24.24
20	QPSK	50	0	23.36	23.39	23.33
20	QPSK	50	24	23.36	23.32	23.34
20	QPSK	50	50	23.35	23.34	23.36
20	QPSK	100	0	23.33	23.37	23.33
20	16QAM	1	0	23.76	23.64	23.65
20	16QAM	1	49	23.54	23.54	23.65
20	16QAM	1	99	23.54	23.49	23.57
20	16QAM	50	0	22.39	22.24	22.32
20	16QAM	50	24	22.39	22.39	22.32
20	16QAM	50	50	22.37	22.33	22.43
20	16QAM	100	0	22.34	22.33	22.31
20	64QAM	1	0	22.69	22.72	22.65
20	64QAM	1	49	22.50	22.58	22.73
20	64QAM	1	99	22.62	22.49	22.50
20	64QAM	50	0	21.39	21.24	21.30
20	64QAM	50	24	21.37	21.34	21.33
20	64QAM	50	50	21.34	21.31	21.39
20	64QAM	100	0	21.36	21.33	21.32



Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	24.28	24.22	24.29
15	QPSK	1	37	24.21	24.17	24.23
15	QPSK	1	74	24.21	24.19	24.25
15	QPSK	36	0	23.34	23.27	23.29
15	QPSK	36	20	23.38	23.35	23.34
15	QPSK	36	39	23.34	23.33	23.41
15	QPSK	75	0	23.34	23.31	23.30
15	16QAM	1	0	23.64	23.62	23.68
15	16QAM	1	37	23.62	23.61	23.70
15	16QAM	1	74	23.58	23.49	23.58
15	16QAM	36	0	22.37	22.25	22.27
15	16QAM	36	20	22.37	22.34	22.34
15	16QAM	36	39	22.38	22.36	22.40
15	16QAM	75	0	22.37	22.35	22.31
15	64QAM	1	0	22.65	22.67	22.74
15	64QAM	1	37	22.57	22.59	22.72
15	64QAM	1	74	22.58	22.47	22.52
15	64QAM	36	0	21.39	21.24	21.31
15	64QAM	36	20	21.37	21.34	21.32
15	64QAM	36	39	21.36	21.34	21.39
15	64QAM	75	0	21.37	21.31	21.32



Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	24.27	24.23	24.26
10	QPSK	1	25	24.16	24.16	24.27
10	QPSK	1	49	24.17	24.18	24.26
10	QPSK	25	0	23.34	23.30	23.29
10	QPSK	25	12	23.38	23.33	23.34
10	QPSK	25	25	23.37	23.36	23.45
10	QPSK	50	0	23.36	23.33	23.30
10	16QAM	1	0	23.61	23.58	23.59
10	16QAM	1	25	23.57	23.54	23.64
10	16QAM	1	49	23.60	23.58	23.62
10	16QAM	25	0	22.37	22.29	22.34
10	16QAM	25	12	22.40	22.36	22.35
10	16QAM	25	25	22.35	22.35	22.44
10	16QAM	50	0	22.38	22.35	22.32
10	64QAM	1	0	22.67	22.67	22.70
10	64QAM	1	25	22.63	22.68	22.64
10	64QAM	1	49	22.61	22.62	22.64
10	64QAM	25	0	21.36	21.33	21.29
10	64QAM	25	12	21.41	21.40	21.37
10	64QAM	25	25	21.36	21.36	21.41
10	64QAM	50	0	21.37	21.34	21.32



Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	24.27	24.19	24.26
5	QPSK	1	12	24.25	24.23	24.25
5	QPSK	1	24	24.25	24.23	24.25
5	QPSK	12	0	23.38	23.29	23.35
5	QPSK	12	7	23.40	23.31	23.37
5	QPSK	12	13	23.40	23.29	23.42
5	QPSK	25	0	23.37	23.27	23.36
5	16QAM	1	0	23.54	23.46	23.57
5	16QAM	1	12	23.49	23.49	23.55
5	16QAM	1	24	23.57	23.52	23.63
5	16QAM	12	0	22.39	22.31	22.39
5	16QAM	12	7	22.40	22.35	22.39
5	16QAM	12	13	22.40	22.35	22.44
5	16QAM	25	0	22.39	22.34	22.36
5	64QAM	1	0	22.47	22.45	22.45
5	64QAM	1	12	22.44	22.35	22.42
5	64QAM	1	24	22.46	22.45	22.51
5	64QAM	12	0	21.37	21.28	21.38
5	64QAM	12	7	21.40	21.32	21.41
5	64QAM	12	13	21.39	21.34	21.40
5	64QAM	25	0	21.39	21.29	21.36



Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	24.23	24.12	24.18
3	QPSK	1	8	24.28	24.20	24.23
3	QPSK	1	14	24.30	24.19	24.25
3	QPSK	8	0	23.35	23.31	23.33
3	QPSK	8	4	23.40	23.31	23.39
3	QPSK	8	7	23.39	23.30	23.34
3	QPSK	15	0	23.35	23.28	23.36
3	16QAM	1	0	23.53	23.47	23.53
3	16QAM	1	8	23.57	23.51	23.59
3	16QAM	1	14	23.56	23.49	23.52
3	16QAM	8	0	22.38	22.34	22.40
3	16QAM	8	4	22.45	22.38	22.43
3	16QAM	8	7	22.40	22.37	22.44
3	16QAM	15	0	22.38	22.32	22.33
3	64QAM	1	0	22.50	22.41	22.47
3	64QAM	1	8	22.52	22.48	22.49
3	64QAM	1	14	22.55	22.47	22.50
3	64QAM	8	0	21.38	21.29	21.33
3	64QAM	8	4	21.40	21.34	21.40
3	64QAM	8	7	21.36	21.32	21.36
3	64QAM	15	0	21.34	21.29	21.35



Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	24.13	24.08	24.14
1.4	QPSK	1	3	24.20	24.18	24.19
1.4	QPSK	1	5	24.15	24.11	24.14
1.4	QPSK	3	0	24.16	24.15	24.19
1.4	QPSK	3	1	24.20	24.13	24.21
1.4	QPSK	3	3	24.17	24.17	24.17
1.4	QPSK	6	0	23.29	23.23	23.23
1.4	16QAM	1	0	23.49	23.40	23.47
1.4	16QAM	1	3	23.55	23.48	23.50
1.4	16QAM	1	5	23.48	23.46	23.49
1.4	16QAM	3	0	23.21	23.14	23.26
1.4	16QAM	3	1	23.27	23.20	23.29
1.4	16QAM	3	3	23.21	23.16	23.24
1.4	16QAM	6	0	22.34	22.28	22.30
1.4	64QAM	1	0	22.41	22.39	22.43
1.4	64QAM	1	3	22.47	22.43	22.47
1.4	64QAM	1	5	22.44	22.35	22.41
1.4	64QAM	3	0	22.32	22.25	22.28
1.4	64QAM	3	1	22.38	22.28	22.33
1.4	64QAM	3	3	22.30	22.20	22.29
1.4	64QAM	6	0	21.28	21.23	21.24



LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	24.41	24.44	24.41
20	QPSK	1	49	24.23	24.25	24.22
20	QPSK	1	99	24.25	24.21	24.14
20	QPSK	50	0	23.47	23.51	23.43
20	QPSK	50	24	23.45	23.39	23.43
20	QPSK	50	50	23.38	23.42	23.33
20	QPSK	100	0	23.33	23.37	23.36
20	16QAM	1	0	23.76	23.75	23.74
20	16QAM	1	49	23.58	23.64	23.59
20	16QAM	1	99	23.59	23.57	23.52
20	16QAM	50	0	22.47	22.50	22.45
20	16QAM	50	24	22.45	22.40	22.44
20	16QAM	50	50	22.38	22.40	22.32
20	16QAM	100	0	22.46	22.37	22.39
20	64QAM	1	0	22.70	22.73	22.70
20	64QAM	1	49	22.51	22.60	22.46
20	64QAM	1	99	22.57	22.52	22.45
20	64QAM	50	0	21.47	21.46	21.44
20	64QAM	50	24	21.45	21.39	21.40
20	64QAM	50	50	21.36	21.36	21.31
20	64QAM	100	0	21.45	21.38	21.40



Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	24.31	24.36	24.30
15	QPSK	1	37	24.13	24.19	24.10
15	QPSK	1	74	24.16	24.13	24.06
15	QPSK	36	0	23.42	23.36	23.30
15	QPSK	36	20	23.33	23.27	23.19
15	QPSK	36	39	23.28	23.29	23.22
15	QPSK	75	0	23.35	23.29	23.20
15	16QAM	1	0	23.66	23.69	23.61
15	16QAM	1	37	23.46	23.54	23.41
15	16QAM	1	74	23.45	23.48	23.40
15	16QAM	36	0	22.43	22.38	22.30
15	16QAM	36	20	22.36	22.28	22.22
15	16QAM	36	39	22.30	22.29	22.18
15	16QAM	75	0	22.37	22.29	22.22
15	64QAM	1	0	22.57	22.65	22.58
15	64QAM	1	37	22.41	22.50	22.39
15	64QAM	1	74	22.41	22.42	22.36
15	64QAM	36	0	21.41	21.37	21.30
15	64QAM	36	20	21.33	21.25	21.22
15	64QAM	36	39	21.29	21.28	21.20
15	64QAM	75	0	21.36	21.29	21.20



Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	24.23	24.24	24.13
10	QPSK	1	25	24.13	24.20	24.09
10	QPSK	1	49	24.16	24.17	24.07
10	QPSK	25	0	23.30	23.23	23.15
10	QPSK	25	12	23.35	23.26	23.25
10	QPSK	25	25	23.31	23.35	23.25
10	QPSK	50	0	23.34	23.25	23.16
10	16QAM	1	0	23.60	23.58	23.51
10	16QAM	1	25	23.58	23.57	23.51
10	16QAM	1	49	23.59	23.56	23.49
10	16QAM	25	0	22.31	22.25	22.14
10	16QAM	25	12	22.36	22.27	22.26
10	16QAM	25	25	22.32	22.33	22.24
10	16QAM	50	0	22.33	22.26	22.16
10	64QAM	1	0	22.59	22.65	22.51
10	64QAM	1	25	22.53	22.61	22.49
10	64QAM	1	49	22.59	22.60	22.51
10	64QAM	25	0	21.31	21.24	21.16
10	64QAM	25	12	21.38	21.31	21.31
10	64QAM	25	25	21.34	21.32	21.27
10	64QAM	50	0	21.30	21.24	21.17



Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	24.19	24.18	24.23
5	QPSK	1	12	24.22	24.24	24.13
5	QPSK	1	24	24.21	24.26	24.15
5	QPSK	12	0	23.30	23.27	23.19
5	QPSK	12	7	23.37	23.36	23.23
5	QPSK	12	13	23.35	23.32	23.20
5	QPSK	25	0	23.32	23.25	23.22
5	16QAM	1	0	23.57	23.49	23.44
5	16QAM	1	12	23.54	23.56	23.41
5	16QAM	1	24	23.60	23.56	23.45
5	16QAM	12	0	22.30	22.28	22.21
5	16QAM	12	7	22.38	22.37	22.25
5	16QAM	12	13	22.30	22.33	22.23
5	16QAM	25	0	22.34	22.24	22.21
5	64QAM	1	0	22.45	22.38	22.32
5	64QAM	1	12	22.44	22.40	22.30
5	64QAM	1	24	22.45	22.45	22.32
5	64QAM	12	0	21.30	21.29	21.20
5	64QAM	12	7	21.38	21.37	21.25
5	64QAM	12	13	21.34	21.34	21.22
5	64QAM	25	0	21.34	21.24	21.24



Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	24.24	24.20	24.13
3	QPSK	1	8	24.26	24.32	24.18
3	QPSK	1	14	24.23	24.26	24.13
3	QPSK	8	0	23.30	23.23	23.22
3	QPSK	8	4	23.36	23.36	23.25
3	QPSK	8	7	23.34	23.32	23.22
3	QPSK	15	0	23.32	23.24	23.22
3	16QAM	1	0	23.53	23.52	23.42
3	16QAM	1	8	23.62	23.61	23.47
3	16QAM	1	14	23.55	23.55	23.43
3	16QAM	8	0	22.35	22.28	22.21
3	16QAM	8	4	22.41	22.40	22.24
3	16QAM	8	7	22.40	22.38	22.25
3	16QAM	15	0	22.34	22.26	22.20
3	64QAM	1	0	22.46	22.40	22.33
3	64QAM	1	8	22.51	22.49	22.37
3	64QAM	1	14	22.47	22.49	22.35
3	64QAM	8	0	21.31	21.26	21.19
3	64QAM	8	4	21.38	21.38	21.21
3	64QAM	8	7	21.36	21.35	21.23
3	64QAM	15	0	21.32	21.24	21.18



Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	24.09	24.15	24.04
1.4	QPSK	1	3	24.19	24.16	24.07
1.4	QPSK	1	5	24.06	24.13	23.90
1.4	QPSK	3	0	24.16	24.13	24.04
1.4	QPSK	3	1	24.19	24.19	24.05
1.4	QPSK	3	3	24.17	24.15	24.01
1.4	QPSK	6	0	23.21	23.19	23.07
1.4	16QAM	1	0	23.38	23.42	23.31
1.4	16QAM	1	3	23.52	23.52	23.37
1.4	16QAM	1	5	23.44	23.43	23.31
1.4	16QAM	3	0	23.22	23.22	23.10
1.4	16QAM	3	1	23.26	23.25	23.14
1.4	16QAM	3	3	23.23	23.23	23.10
1.4	16QAM	6	0	22.32	22.33	22.22
1.4	64QAM	1	0	22.34	22.32	22.21
1.4	64QAM	1	3	22.42	22.36	22.27
1.4	64QAM	1	5	22.33	22.31	22.23
1.4	64QAM	3	0	22.26	22.25	22.14
1.4	64QAM	3	1	22.31	22.32	22.19
1.4	64QAM	3	3	22.23	22.26	22.16
1.4	64QAM	6	0	21.24	21.23	21.11



LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.75	23.81	23.73
10	QPSK	1	25	23.65	23.63	23.61
10	QPSK	1	49	23.57	23.80	23.66
10	QPSK	25	0	22.78	22.80	22.63
10	QPSK	25	12	22.79	22.64	22.68
10	QPSK	25	25	22.76	22.64	22.70
10	QPSK	50	0	22.69	22.79	22.65
10	16QAM	1	0	23.12	23.02	22.91
10	16QAM	1	25	23.09	22.87	22.91
10	16QAM	1	49	23.00	22.92	22.96
10	16QAM	25	0	21.80	21.65	21.66
10	16QAM	25	12	21.82	21.68	21.68
10	16QAM	25	25	21.76	21.70	21.70
10	16QAM	50	0	21.80	21.70	21.65
10	64QAM	1	0	22.14	22.06	22.04
10	64QAM	1	25	22.07	22.02	22.10
10	64QAM	1	49	22.02	22.13	22.20
10	64QAM	25	0	20.74	20.61	20.65
10	64QAM	25	12	20.83	20.76	20.69
10	64QAM	25	25	20.76	20.67	20.69
10	64QAM	50	0	20.80	20.68	20.65



Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.67	23.80	23.52
5	QPSK	1	12	23.60	23.70	23.45
5	QPSK	1	24	23.62	23.72	23.50
5	QPSK	12	0	22.72	22.41	22.51
5	QPSK	12	7	22.72	22.46	22.54
5	QPSK	12	13	22.71	22.46	22.48
5	QPSK	25	0	22.73	22.48	22.44
5	16QAM	1	0	22.94	22.73	22.77
5	16QAM	1	12	22.87	22.66	22.67
5	16QAM	1	24	22.84	22.67	22.72
5	16QAM	12	0	21.72	21.49	21.55
5	16QAM	12	7	21.74	21.53	21.56
5	16QAM	12	13	21.71	21.47	21.52
5	16QAM	25	0	21.74	21.49	21.49
5	64QAM	1	0	21.91	21.95	21.72
5	64QAM	1	12	21.80	21.63	21.69
5	64QAM	1	24	21.86	21.66	21.72
5	64QAM	12	0	20.69	20.44	20.51
5	64QAM	12	7	20.76	20.51	20.57
5	64QAM	12	13	20.65	20.61	20.51
5	64QAM	25	0	20.72	20.65	20.68



Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.43	23.38	23.50
3	QPSK	1	8	23.56	23.45	23.51
3	QPSK	1	14	23.73	23.38	23.41
3	QPSK	8	0	22.51	22.44	22.55
3	QPSK	8	4	22.59	22.54	22.56
3	QPSK	8	7	22.55	22.46	22.58
3	QPSK	15	0	22.55	22.43	22.46
3	16QAM	1	0	22.71	22.69	22.80
3	16QAM	1	8	22.75	22.71	22.76
3	16QAM	1	14	22.67	22.68	22.73
3	16QAM	8	0	21.55	21.49	21.51
3	16QAM	8	4	21.58	21.53	21.52
3	16QAM	8	7	21.58	21.50	21.54
3	16QAM	15	0	21.57	21.47	21.49
3	64QAM	1	0	21.74	21.67	21.79
3	64QAM	1	8	21.70	21.65	21.69
3	64QAM	1	14	21.75	21.61	21.76
3	64QAM	8	0	20.49	20.45	20.51
3	64QAM	8	4	20.59	20.49	20.53
3	64QAM	8	7	20.51	20.46	20.52
3	64QAM	15	0	20.57	20.44	20.50



Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.63	23.64	23.66
1.4	QPSK	1	3	23.37	23.75	23.71
1.4	QPSK	1	5	23.28	23.30	23.33
1.4	QPSK	3	0	23.38	23.25	23.29
1.4	QPSK	3	1	23.40	23.31	23.31
1.4	QPSK	3	3	23.35	23.30	23.29
1.4	QPSK	6	0	22.44	22.38	22.38
1.4	16QAM	1	0	22.57	22.58	22.58
1.4	16QAM	1	3	22.75	22.64	22.73
1.4	16QAM	1	5	22.65	22.57	22.57
1.4	16QAM	3	0	22.44	22.31	22.36
1.4	16QAM	3	1	22.47	22.40	22.39
1.4	16QAM	3	3	22.38	22.37	22.31
1.4	16QAM	6	0	21.52	21.45	21.49
1.4	64QAM	1	0	21.53	21.49	21.56
1.4	64QAM	1	3	21.62	21.56	21.66
1.4	64QAM	1	5	21.60	21.53	21.57
1.4	64QAM	3	0	21.45	21.38	21.44
1.4	64QAM	3	1	21.49	21.41	21.42
1.4	64QAM	3	3	21.44	21.35	21.38
1.4	64QAM	6	0	20.43	20.36	20.38



LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	24.31	24.47	24.40
20	QPSK	1	49	24.30	24.35	24.33
20	QPSK	1	99	24.21	24.43	24.36
20	QPSK	50	0	23.44	23.77	23.67
20	QPSK	50	24	23.44	23.51	23.70
20	QPSK	50	50	23.43	23.44	23.70
20	QPSK	100	0	23.50	23.73	23.55
20	16QAM	1	0	23.77	23.77	23.88
20	16QAM	1	49	23.60	23.67	23.85
20	16QAM	1	99	23.49	23.64	23.77
20	16QAM	50	0	22.44	22.49	22.75
20	16QAM	50	24	22.53	22.44	22.78
20	16QAM	50	50	22.39	22.50	22.77
20	16QAM	100	0	22.40	22.48	22.67
20	64QAM	1	0	22.42	22.56	22.71
20	64QAM	1	49	22.45	22.55	22.71
20	64QAM	1	99	22.51	22.67	22.64
20	64QAM	50	0	21.46	21.55	21.75
20	64QAM	50	24	21.49	21.56	21.75
20	64QAM	50	50	21.45	21.57	21.77
20	64QAM	100	0	21.46	21.42	21.73



Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	24.37	24.41	24.44
15	QPSK	1	37	24.28	24.39	24.45
15	QPSK	1	74	24.30	24.45	24.42
15	QPSK	36	0	23.51	23.55	23.74
15	QPSK	36	20	23.49	23.51	23.69
15	QPSK	36	39	23.43	23.44	23.68
15	QPSK	75	0	23.48	23.49	23.71
15	16QAM	1	0	23.71	23.76	23.79
15	16QAM	1	37	23.65	23.66	23.96
15	16QAM	1	74	23.62	23.70	23.80
15	16QAM	36	0	22.41	22.44	22.64
15	16QAM	36	20	22.54	22.54	22.74
15	16QAM	36	39	22.48	22.50	22.71
15	16QAM	75	0	22.45	22.49	22.71
15	64QAM	1	0	22.57	22.62	22.77
15	64QAM	1	37	22.54	22.62	22.81
15	64QAM	1	74	22.54	22.61	22.74
15	64QAM	36	0	21.52	21.49	21.74
15	64QAM	36	20	21.55	21.61	21.79
15	64QAM	36	39	21.44	21.54	21.71
15	64QAM	75	0	21.45	21.50	21.74



Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	24.38	24.33	24.38
10	QPSK	1	25	24.19	24.24	24.39
10	QPSK	1	49	24.24	24.38	24.44
10	QPSK	25	0	23.43	23.49	23.69
10	QPSK	25	12	23.49	23.49	23.74
10	QPSK	25	25	23.41	23.49	23.66
10	QPSK	50	0	23.50	23.45	23.67
10	16QAM	1	0	23.60	23.78	23.87
10	16QAM	1	25	23.60	23.86	23.93
10	16QAM	1	49	23.68	23.68	23.95
10	16QAM	25	0	22.38	22.42	22.66
10	16QAM	25	12	22.50	22.51	22.72
10	16QAM	25	25	22.40	22.49	22.66
10	16QAM	50	0	22.48	22.45	22.68
10	64QAM	1	0	22.41	22.63	22.87
10	64QAM	1	25	22.41	22.66	22.78
10	64QAM	1	49	22.54	22.58	22.73
10	64QAM	25	0	21.50	21.50	21.70
10	64QAM	25	12	21.57	21.54	21.82
10	64QAM	25	25	21.47	21.64	21.74
10	64QAM	50	0	21.44	21.54	21.71



Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	24.33	24.33	24.39
5	QPSK	1	12	24.31	24.40	24.40
5	QPSK	1	24	24.29	24.39	24.32
5	QPSK	12	0	23.38	23.51	23.69
5	QPSK	12	7	23.50	23.48	23.71
5	QPSK	12	13	23.49	23.51	23.66
5	QPSK	25	0	23.48	23.45	23.67
5	16QAM	1	0	23.62	23.57	23.92
5	16QAM	1	12	23.63	23.69	23.84
5	16QAM	1	24	23.65	23.80	23.93
5	16QAM	12	0	22.39	22.51	22.74
5	16QAM	12	7	22.53	22.50	22.67
5	16QAM	12	13	22.52	22.57	22.71
5	16QAM	25	0	22.51	22.47	22.73
5	64QAM	1	0	22.65	22.68	22.79
5	64QAM	1	12	22.57	22.67	22.90
5	64QAM	1	24	22.64	22.72	22.83
5	64QAM	12	0	21.52	21.48	21.70
5	64QAM	12	7	21.56	21.55	21.72
5	64QAM	12	13	21.45	21.58	21.75
5	64QAM	25	0	21.51	21.49	21.72


LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.81	23.90	23.75
10	QPSK	1	25	23.75	23.77	23.72
10	QPSK	1	49	23.81	23.80	23.78
10	QPSK	25	0	22.86	22.94	22.85
10	QPSK	25	12	22.92	22.88	22.93
10	QPSK	25	25	22.90	22.90	22.89
10	QPSK	50	0	22.93	22.99	22.93
10	16QAM	1	0	23.19	23.13	23.16
10	16QAM	1	25	23.16	23.14	23.16
10	16QAM	1	49	23.25	23.16	23.12
10	16QAM	25	0	21.87	21.87	21.87
10	16QAM	25	12	21.97	21.90	21.93
10	16QAM	25	25	21.95	21.97	21.88
10	16QAM	50	0	21.98	21.87	21.94
10	64QAM	1	0	22.33	22.16	22.21
10	64QAM	1	25	22.19	22.15	22.16
10	64QAM	1	49	22.28	22.20	22.25
10	64QAM	25	0	20.92	20.90	20.87
10	64QAM	25	12	20.99	20.90	20.95
10	64QAM	25	25	20.95	20.88	20.88
10	64QAM	50	0	20.95	20.85	20.92



Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.80	23.77	23.70
5	QPSK	1	12	23.73	23.81	23.74
5	QPSK	1	24	23.76	23.80	23.78
5	QPSK	12	0	22.91	22.90	22.84
5	QPSK	12	7	22.89	22.92	22.84
5	QPSK	12	13	22.88	22.85	22.79
5	QPSK	25	0	22.86	22.81	22.75
5	16QAM	1	0	23.05	23.05	22.96
5	16QAM	1	12	22.99	23.04	22.95
5	16QAM	1	24	23.08	23.09	23.00
5	16QAM	12	0	21.94	21.87	21.86
5	16QAM	12	7	21.93	21.94	21.88
5	16QAM	12	13	21.91	21.86	21.83
5	16QAM	25	0	21.89	21.83	21.78
5	64QAM	1	0	22.03	21.99	21.97
5	64QAM	1	12	22.02	21.98	21.90
5	64QAM	1	24	22.01	21.99	21.96
5	64QAM	12	0	20.90	20.83	20.78
5	64QAM	12	7	20.88	20.86	20.81
5	64QAM	12	13	20.88	20.82	20.81
5	64QAM	25	0	20.91	20.83	20.80



Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.80	23.73	23.70
3	QPSK	1	8	23.77	23.77	23.76
3	QPSK	1	14	23.68	23.73	23.69
3	QPSK	8	0	22.88	22.82	22.75
3	QPSK	8	4	22.89	22.85	22.83
3	QPSK	8	7	22.80	22.84	22.81
3	QPSK	15	0	22.83	22.79	22.68
3	16QAM	1	0	23.13	23.01	22.99
3	16QAM	1	8	23.06	23.07	22.99
3	16QAM	1	14	23.01	23.00	22.94
3	16QAM	8	0	21.93	21.87	21.81
3	16QAM	8	4	21.91	21.91	21.82
3	16QAM	8	7	21.85	21.84	21.79
3	16QAM	15	0	21.87	21.77	21.75
3	64QAM	1	0	22.08	22.01	21.95
3	64QAM	1	8	21.97	21.98	21.90
3	64QAM	1	14	21.93	21.99	21.95
3	64QAM	8	0	20.88	20.82	20.75
3	64QAM	8	4	20.88	20.87	20.80
3	64QAM	8	7	20.81	20.80	20.75
3	64QAM	15	0	20.84	20.75	20.73



Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.61	23.50	23.50
1.4	QPSK	1	3	23.65	23.64	23.59
1.4	QPSK	1	5	23.55	23.57	23.45
1.4	QPSK	3	0	23.67	23.59	23.58
1.4	QPSK	3	1	23.66	23.59	23.52
1.4	QPSK	3	3	23.60	23.61	23.53
1.4	QPSK	6	0	22.70	22.63	22.59
1.4	16QAM	1	0	22.88	22.84	22.88
1.4	16QAM	1	3	22.97	22.92	22.88
1.4	16QAM	1	5	22.81	22.87	22.74
1.4	16QAM	3	0	22.69	22.62	22.60
1.4	16QAM	3	1	22.72	22.67	22.64
1.4	16QAM	3	3	22.65	22.64	22.54
1.4	16QAM	6	0	21.77	21.70	21.66
1.4	64QAM	1	0	21.88	21.79	21.81
1.4	64QAM	1	3	21.95	21.89	21.77
1.4	64QAM	1	5	21.82	21.82	21.73
1.4	64QAM	3	0	21.73	21.63	21.62
1.4	64QAM	3	1	21.74	21.67	21.63
1.4	64QAM	3	3	21.71	21.68	21.55
1.4	64QAM	6	0	20.71	20.61	20.57



LTE Band 13:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23230		
Frequency (MHz)				782		
10	QPSK	1	0		23.93	
10	QPSK	1	25		23.83	
10	QPSK	1	49		23.85	
10	QPSK	25	0		23.07	
10	QPSK	25	12		23.03	
10	QPSK	25	25		22.91	
10	QPSK	50	0		23.06	
10	16QAM	1	0		23.19	
10	16QAM	1	25		23.20	
10	16QAM	1	49		23.10	
10	16QAM	25	0		21.94	
10	16QAM	25	12		22.02	
10	16QAM	25	25		21.98	
10	16QAM	50	0		22.04	
10	64QAM	1	0		22.33	
10	64QAM	1	25		22.22	
10	64QAM	1	49		22.24	
10	64QAM	25	0		20.96	
10	64QAM	25	12		21.08	
10	64QAM	25	25		20.94	
10	64QAM	50	0		21.01	



Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.87	23.70	23.66
5	QPSK	1	12	23.87	23.78	23.70
5	QPSK	1	24	23.90	23.71	23.70
5	QPSK	12	0	23.01	22.86	22.78
5	QPSK	12	7	23.04	22.87	22.77
5	QPSK	12	13	23.02	22.84	22.80
5	QPSK	25	0	23.02	22.87	22.77
5	16QAM	1	0	23.14	23.04	22.96
5	16QAM	1	12	23.19	22.99	22.97
5	16QAM	1	24	23.18	23.02	22.97
5	16QAM	12	0	22.04	21.90	21.81
5	16QAM	12	7	22.08	21.91	21.79
5	16QAM	12	13	22.05	21.87	21.84
5	16QAM	25	0	22.02	21.90	21.81
5	64QAM	1	0	22.16	21.99	21.91
5	64QAM	1	12	22.14	21.97	21.92
5	64QAM	1	24	22.14	22.01	21.92
5	64QAM	12	0	20.98	20.83	20.79
5	64QAM	12	7	21.01	20.87	20.76
5	64QAM	12	13	20.99	20.88	20.82
5	64QAM	25	0	21.08	20.90	20.80



LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	24.45	24.49	24.34
20	QPSK	1	49	24.40	24.39	24.40
20	QPSK	1	99	24.34	24.40	24.16
20	QPSK	50	0	23.54	23.59	23.43
20	QPSK	50	24	23.57	23.45	23.40
20	QPSK	50	50	23.54	23.51	23.39
20	QPSK	100	0	23.44	23.57	23.37
20	16QAM	1	0	23.87	23.89	23.76
20	16QAM	1	49	23.79	23.78	23.67
20	16QAM	1	99	23.69	23.62	23.52
20	16QAM	50	0	22.54	22.54	22.46
20	16QAM	50	24	22.62	22.49	22.44
20	16QAM	50	50	22.55	22.48	22.41
20	16QAM	100	0	22.56	22.47	22.39
20	64QAM	1	0	22.74	22.80	22.76
20	64QAM	1	49	22.68	22.66	22.64
20	64QAM	1	99	22.48	22.65	22.51
20	64QAM	50	0	21.50	21.49	21.42
20	64QAM	50	24	21.58	21.48	21.35
20	64QAM	50	50	21.52	21.46	21.39
20	64QAM	100	0	21.56	21.47	21.40



Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	24.41	24.44	24.38
15	QPSK	1	37	24.38	24.35	24.26
15	QPSK	1	74	24.35	24.30	24.20
15	QPSK	36	0	23.59	23.50	23.39
15	QPSK	36	20	23.57	23.47	23.48
15	QPSK	36	39	23.52	23.47	23.36
15	QPSK	75	0	23.53	23.46	23.42
15	16QAM	1	0	23.80	23.77	23.74
15	16QAM	1	37	23.70	23.70	23.64
15	16QAM	1	74	23.72	23.69	23.55
15	16QAM	36	0	22.58	22.51	22.36
15	16QAM	36	20	22.60	22.50	22.46
15	16QAM	36	39	22.53	22.49	22.38
15	16QAM	75	0	22.57	22.46	22.47
15	64QAM	1	0	22.72	22.74	22.72
15	64QAM	1	37	22.67	22.69	22.67
15	64QAM	1	74	22.69	22.63	22.54
15	64QAM	36	0	21.59	21.50	21.40
15	64QAM	36	20	21.57	21.50	21.46
15	64QAM	36	39	21.52	21.49	21.37
15	64QAM	75	0	21.55	21.47	21.45



Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	24.47	24.49	24.30
10	QPSK	1	25	24.33	24.45	24.31
10	QPSK	1	49	24.34	24.28	24.18
10	QPSK	25	0	23.52	23.42	23.31
10	QPSK	25	12	23.55	23.43	23.32
10	QPSK	25	25	23.50	23.45	23.36
10	QPSK	50	0	23.54	23.43	23.29
10	16QAM	1	0	23.82	23.81	23.70
10	16QAM	1	25	23.85	23.80	23.65
10	16QAM	1	49	23.71	23.68	23.57
10	16QAM	25	0	22.54	22.46	22.28
10	16QAM	25	12	22.56	22.41	22.31
10	16QAM	25	25	22.48	22.49	22.33
10	16QAM	50	0	22.52	22.45	22.30
10	64QAM	1	0	22.83	22.84	22.72
10	64QAM	1	25	22.74	22.76	22.69
10	64QAM	1	49	22.74	22.76	22.65
10	64QAM	25	0	21.56	21.43	21.34
10	64QAM	25	12	21.58	21.46	21.34
10	64QAM	25	25	21.48	21.47	21.34
10	64QAM	50	0	21.53	21.44	21.29



Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	24.42	24.35	24.30
5	QPSK	1	12	24.41	24.47	24.29
5	QPSK	1	24	24.38	24.38	24.14
5	QPSK	12	0	23.52	23.45	23.30
5	QPSK	12	7	23.58	23.53	23.35
5	QPSK	12	13	23.54	23.49	23.29
5	QPSK	25	0	23.51	23.40	23.30
5	16QAM	1	0	23.80	23.66	23.60
5	16QAM	1	12	23.78	23.76	23.53
5	16QAM	1	24	23.70	23.71	23.57
5	16QAM	12	0	22.56	22.46	22.37
5	16QAM	12	7	22.60	22.55	22.40
5	16QAM	12	13	22.51	22.50	22.33
5	16QAM	25	0	22.56	22.43	22.37
5	64QAM	1	0	22.72	22.60	22.56
5	64QAM	1	12	22.68	22.61	22.45
5	64QAM	1	24	22.63	22.58	22.43
5	64QAM	12	0	21.55	21.43	21.37
5	64QAM	12	7	21.58	21.51	21.39
5	64QAM	12	13	21.47	21.47	21.46
5	64QAM	25	0	21.54	21.45	21.46



Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	24.33	24.38	24.27
3	QPSK	1	8	24.41	24.45	24.32
3	QPSK	1	14	24.39	24.36	24.21
3	QPSK	8	0	23.57	23.45	23.36
3	QPSK	8	4	23.53	23.51	23.37
3	QPSK	8	7	23.51	23.50	23.31
3	QPSK	15	0	23.56	23.40	23.32
3	16QAM	1	0	23.79	23.70	23.59
3	16QAM	1	8	23.81	23.82	23.64
3	16QAM	1	14	23.76	23.73	23.61
3	16QAM	8	0	22.57	22.50	22.37
3	16QAM	8	4	22.62	22.57	22.40
3	16QAM	8	7	22.56	22.55	22.35
3	16QAM	15	0	22.55	22.46	22.37
3	64QAM	1	0	22.68	22.58	22.55
3	64QAM	1	8	22.73	22.66	22.55
3	64QAM	1	14	22.67	22.63	22.50
3	64QAM	8	0	21.58	21.45	21.39
3	64QAM	8	4	21.54	21.51	21.41
3	64QAM	8	7	21.54	21.51	21.37
3	64QAM	15	0	21.51	21.41	21.37



Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	24.34	24.30	24.31
1.4	QPSK	1	3	24.39	24.35	24.18
1.4	QPSK	1	5	24.30	24.26	24.16
1.4	QPSK	3	0	24.38	24.34	24.20
1.4	QPSK	3	1	24.42	24.39	24.21
1.4	QPSK	3	3	24.39	24.36	24.20
1.4	QPSK	6	0	23.43	23.39	23.29
1.4	16QAM	1	0	23.69	23.65	23.50
1.4	16QAM	1	3	23.76	23.75	23.59
1.4	16QAM	1	5	23.67	23.66	23.50
1.4	16QAM	3	0	23.43	23.41	23.24
1.4	16QAM	3	1	23.48	23.46	23.29
1.4	16QAM	3	3	23.44	23.39	23.24
1.4	16QAM	6	0	22.55	22.53	22.33
1.4	64QAM	1	0	22.58	22.54	22.43
1.4	64QAM	1	3	22.64	22.60	22.47
1.4	64QAM	1	5	22.61	22.56	22.39
1.4	64QAM	3	0	22.46	22.48	22.33
1.4	64QAM	3	1	22.51	22.49	22.35
1.4	64QAM	3	3	22.47	22.43	22.29
1.4	64QAM	6	0	21.46	21.42	21.25

**CA Power****LTE Band CA_5B:**

CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
PCC Chan nel	SCC Chan nel	Modulati on	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measur ed Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20450	20549	QPSK	1	49	1	0	1	0	23.67
20476	20575	QPSK	1	0	1	49	1	0	23.71
20501	20600	QPSK	1	0	1	49	1	0	23.70
20450	20549	16QAM	1	49	1	0	1	0	22.60
20476	20575	16QAM	1	0	1	49	1	0	22.70
20501	20600	16QAM	1	0	1	49	1	0	22.76
20450	20549	64QAM	1	49	1	0	1	0	22.03
20476	20575	64QAM	1	0	1	49	1	0	22.12
20501	20600	64QAM	1	0	1	49	1	0	21.90



LTE Band CA_66B:

CA_66B									
Combination 15MHz+5MHz (75RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
132047	132140	QPSK	1	74	1	0	1	0	23.92
132398	132491	QPSK	1	0	1	24	1	0	23.97
132549	132642	QPSK	1	0	1	24	1	0	23.87
132047	132140	16QAM	1	74	1	0	1	0	23.01
132398	132491	16QAM	1	0	1	24	1	0	22.98
132549	132642	16QAM	1	0	1	24	1	0	22.81
132047	132140	64QAM	1	74	1	0	1	0	21.98
132398	132491	64QAM	1	0	1	24	1	0	22.03
132549	132642	64QAM	1	0	1	24	1	0	22.12

LTE Band CA_66C:

CA_66C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
132072	132270	QPSK	1	99	1	0	1	0	24.22
132323	132521	QPSK	1	0	1	99	1	0	24.24
132374	132572	QPSK	1	0	1	99	1	0	24.17
132072	132270	16QAM	1	99	1	0	1	0	23.23
132323	132521	16QAM	1	0	1	99	1	0	23.1
132374	132572	16QAM	1	0	1	99	1	0	23.01
132072	132270	64QAM	1	99	1	0	1	0	22.34
132323	132521	64QAM	1	0	1	99	1	0	22.21
132374	132572	64QAM	1	0	1	99	1	0	22.43

**ERP/EIRP**

LTE Band 2 (GT - LC = -0.96 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)	24.20	24.13	24.21	24.30	24.19	24.25	24.27	24.19	24.26
Conducted Power (Watts)	0.2630	0.2588	0.2636	0.2692	0.2624	0.2661	0.2673	0.2624	0.2667
EIRP(dBm)	23.24	23.17	23.25	23.34	23.23	23.29	23.31	23.23	23.30
EIRP(Watts)	0.2109	0.2075	0.2113	0.2158	0.2104	0.2133	0.2143	0.2104	0.2138

LTE Band 2 (GT - LC = -0.96 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)	24.27	24.23	24.26	24.28	24.22	24.29	24.26	24.31	24.30
Conducted Power (Watts)	0.2673	0.2649	0.2667	0.2679	0.2642	0.2685	0.2667	0.2698	0.2692
EIRP(dBm)	23.31	23.27	23.30	23.32	23.26	23.33	23.30	23.35	23.34
EIRP(Watts)	0.2143	0.2123	0.2138	0.2148	0.2118	0.2153	0.2138	0.2163	0.2158



LTE Band 2 (GT - LC = -0.96 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)	23.55	23.48	23.50	23.57	23.51	23.59	23.57	23.52	23.63
Conducted Power (Watts)	0.2265	0.2228	0.2239	0.2275	0.2244	0.2286	0.2275	0.2249	0.2307
EIRP(dBm)	22.59	22.52	22.54	22.61	22.55	22.63	22.61	22.56	22.67
EIRP(Watts)	0.1816	0.1786	0.1795	0.1824	0.1799	0.1832	0.1824	0.1803	0.1849

LTE Band 2 (GT - LC = -0.96 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)	23.57	23.54	23.64	23.62	23.61	23.70	23.76	23.64	23.65
Conducted Power (Watts)	0.2275	0.2259	0.2312	0.2301	0.2296	0.2344	0.2377	0.2312	0.2317
EIRP(dBm)	22.61	22.58	22.68	22.66	22.65	22.74	22.80	22.68	22.69
EIRP(Watts)	0.1824	0.1811	0.1854	0.1845	0.1841	0.1879	0.1905	0.1854	0.1858



LTE Band 2 (GT - LC = -0.96 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)	22.47	22.43	22.47	22.55	22.47	22.50	22.46	22.45	22.51
Conducted Power (Watts)	0.1766	0.1750	0.1766	0.1799	0.1766	0.1778	0.1762	0.1758	0.1782
EIRP(dBm)	21.51	21.47	21.51	21.59	21.51	21.54	21.50	21.49	21.55
EIRP(Watts)	0.1416	0.1403	0.1416	0.1442	0.1416	0.1426	0.1413	0.1409	0.1429

LTE Band 2 (GT - LC = -0.96 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)	22.67	22.67	22.70	22.65	22.67	22.74	22.50	22.58	22.73
Conducted Power (Watts)	0.1849	0.1849	0.1862	0.1841	0.1849	0.1879	0.1778	0.1811	0.1875
EIRP(dBm)	21.71	21.71	21.74	21.69	21.71	21.78	21.54	21.62	21.77
EIRP(Watts)	0.1483	0.1483	0.1493	0.1476	0.1483	0.1507	0.1426	0.1452	0.1503

LTE Band 5 (GT - LC = -2.30 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.37	23.75	23.71	23.73	23.38	23.41	23.67	23.80	23.52
Conducted Power (Watts)	0.2173	0.2371	0.2350	0.2360	0.2178	0.2193	0.2328	0.2399	0.2249
ERP(dBm)	18.92	19.30	19.26	19.28	18.93	18.96	19.22	19.35	19.07
ERP(Watts)	0.0780	0.0851	0.0843	0.0847	0.0782	0.0787	0.0836	0.0861	0.0807

LTE Band 5 (GT - LC = -2.30 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.75	23.81	23.73
Conducted Power (Watts)	0.2371	0.2404	0.2360
ERP(dBm)	19.30	19.36	19.28
ERP(Watts)	0.0851	0.0863	0.0847

LTE Band 5 (GT - LC = -2.30 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.75	22.64	22.73	22.71	22.69	22.80	22.94	22.73	22.77
Conducted Power (Watts)	0.1884	0.1837	0.1875	0.1866	0.1858	0.1905	0.1968	0.1875	0.1892
ERP(dBm)	18.30	18.19	18.28	18.26	18.24	18.35	18.49	18.28	18.32
ERP(Watts)	0.0676	0.0659	0.0673	0.0670	0.0667	0.0684	0.0706	0.0673	0.0679

LTE Band 5 (GT - LC = -2.30 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.12	23.02	22.91
Conducted Power (Watts)	0.2051	0.2004	0.1954
ERP(dBm)	18.67	18.57	18.46
ERP(Watts)	0.0736	0.0719	0.0701



LTE Band 5 (GT - LC = -2.30 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.62	21.56	21.66	21.74	21.67	21.79	21.91	21.95	21.72
Conducted Power (Watts)	0.1452	0.1432	0.1466	0.1493	0.1469	0.1510	0.1552	0.1567	0.1486
ERP(dBm)	17.17	17.11	17.21	17.29	17.22	17.34	17.46	17.50	17.27
ERP(Watts)	0.0521	0.0514	0.0526	0.0536	0.0527	0.0542	0.0557	0.0562	0.0533

LTE Band 5 (GT - LC = -2.30 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.02	22.13	22.20
Conducted Power (Watts)	0.1592	0.1633	0.1660
ERP(dBm)	17.57	17.68	17.75
ERP(Watts)	0.0571	0.0586	0.0596



LTE Band 7 (GT - LC = -1.20 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	24.31	24.40	24.40
Conducted Power (Watts)	0.2698	0.2754	0.2754
EIRP(dBm)	23.11	23.20	23.20
EIRP(Watts)	0.2046	0.2089	0.2089

LTE Band 7 (GT - LC = -1.20 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)	24.24	24.38	24.44	24.28	24.39	24.45	24.31	24.47	24.40
Conducted Power (Watts)	0.2655	0.2742	0.2780	0.2679	0.2748	0.2786	0.2698	0.2799	0.2754
EIRP(dBm)	23.04	23.18	23.24	23.08	23.19	23.25	23.11	23.27	23.20
EIRP(Watts)	0.2014	0.2080	0.2109	0.2032	0.2084	0.2113	0.2046	0.2123	0.2089

LTE Band 7 (GT - LC = -1.20 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.65	23.80	23.93
Conducted Power (Watts)	0.2317	0.2399	0.2472
EIRP(dBm)	22.45	22.60	22.73
EIRP(Watts)	0.1758	0.1820	0.1875

LTE Band 7 (GT - LC = -1.20 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)	23.68	23.68	23.95	23.65	23.66	23.96	23.77	23.77	23.88
Conducted Power (Watts)	0.2333	0.2333	0.2483	0.2317	0.2323	0.2489	0.2382	0.2382	0.2443
EIRP(dBm)	22.48	22.48	22.75	22.45	22.46	22.76	22.57	22.57	22.68
EIRP(Watts)	0.1770	0.1770	0.1884	0.1758	0.1762	0.1888	0.1807	0.1807	0.1854



LTE Band 7 (GT - LC = -1.20 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.57	22.67	22.90
Conducted Power (Watts)	0.1807	0.1849	0.1950
EIRP(dBm)	21.37	21.47	21.70
EIRP(Watts)	0.1371	0.1403	0.1479

LTE Band 7 (GT - LC = -1.20 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)	22.41	22.63	22.87	22.54	22.62	22.81	22.42	22.56	22.71
Conducted Power (Watts)	0.1742	0.1832	0.1936	0.1795	0.1828	0.1910	0.1746	0.1803	0.1866
EIRP(dBm)	21.21	21.43	21.67	21.34	21.42	21.61	21.22	21.36	21.51
EIRP(Watts)	0.1321	0.1390	0.1469	0.1361	0.1387	0.1449	0.1324	0.1368	0.1416

LTE Band 12 (GT - LC = -1.90 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)	23.67	23.59	23.58	23.80	23.73	23.70	23.73	23.81	23.74
Conducted Power (Watts)	0.2328	0.2286	0.2280	0.2399	0.2360	0.2344	0.2360	0.2404	0.2366
ERP(dBm)	19.62	19.54	19.53	19.75	19.68	19.65	19.68	19.76	19.69
ERP(Watts)	0.0916	0.0899	0.0897	0.0944	0.0929	0.0923	0.0929	0.0946	0.0931

LTE Band 12 (GT - LC = -1.90 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.81	23.90	23.75
Conducted Power (Watts)	0.2404	0.2455	0.2371
ERP(dBm)	19.76	19.85	19.70
ERP(Watts)	0.0946	0.0966	0.0933



LTE Band 12 (GT - LC = -1.90 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)	22.97	22.92	22.88	23.13	23.01	22.99	23.08	23.09	23.00
Conducted Power (Watts)	0.1982	0.1959	0.1941	0.2056	0.2000	0.1991	0.2032	0.2037	0.1995
ERP(dBm)	18.92	18.87	18.83	19.08	18.96	18.94	19.03	19.04	18.95
ERP(Watts)	0.0780	0.0771	0.0764	0.0809	0.0787	0.0783	0.0800	0.0802	0.0785

LTE Band 12 (GT - LC = -1.90 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	23.25	23.16	23.12
Conducted Power (Watts)	0.2113	0.2070	0.2051
ERP(dBm)	19.20	19.11	19.07
ERP(Watts)	0.0832	0.0815	0.0807



LTE Band 12 (GT - LC = -1.90 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	21.95	21.89	21.77	22.08	22.01	21.95	22.03	21.99	21.97
Conducted Power (Watts)	0.1567	0.1545	0.1503	0.1614	0.1589	0.1567	0.1596	0.1581	0.1574
ERP(dBm)	17.90	17.84	17.72	18.03	17.96	17.90	17.98	17.94	17.92
ERP(Watts)	0.0617	0.0608	0.0592	0.0635	0.0625	0.0617	0.0628	0.0622	0.0619

LTE Band 12 (GT - LC = -1.90 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	22.33	22.16	22.21
Conducted Power (Watts)	0.1710	0.1644	0.1663
ERP(dBm)	18.28	18.11	18.16
ERP(Watts)	0.0673	0.0647	0.0655



LTE Band 13 (GT - LC = -2.20 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)	23.90	23.71	23.70		23.93	-
Conducted Power (Watts)	0.2455	0.2350	0.2344		0.2472	-
ERP(dBm)	19.55	19.36	19.35		19.58	-
ERP(Watts)	0.0902	0.0863	0.0861		0.0908	-

LTE Band 13 (GT - LC = -2.20 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)	23.19	22.99	22.97		23.20	-
Conducted Power (Watts)	0.2084	0.1991	0.1982		0.2089	-
ERP(dBm)	18.84	18.64	18.62		18.85	-
ERP(Watts)	0.0766	0.0731	0.0728		0.0767	-

LTE Band 13 (GT - LC = -2.20 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)	22.16	21.99	21.91		22.33	-
Conducted Power (Watts)	0.1644	0.1581	0.1552		0.1710	-
ERP(dBm)	17.81	17.64	17.56		17.98	-
ERP(Watts)	0.0604	0.0581	0.0570		0.0628	-



LTE Band 66 (GT - LC = -0.96 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)	24.42	24.39	24.21	24.41	24.45	24.32	24.41	24.47	24.29
Conducted Power (Watts)	0.2767	0.2748	0.2636	0.2761	0.2786	0.2704	0.2761	0.2799	0.2685
EIRP(dBm)	23.46	23.43	23.25	23.45	23.49	23.36	23.45	23.51	23.33
EIRP(Watts)	0.2218	0.2203	0.2113	0.2213	0.2234	0.2168	0.2213	0.2244	0.2153

LTE Band 66 (GT - LC = -0.96 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)	24.47	24.49	24.30	24.41	24.44	24.38	24.45	24.49	24.34
Conducted Power (Watts)	0.2799	0.2812	0.2692	0.2761	0.2780	0.2742	0.2786	0.2812	0.2716
EIRP(dBm)	23.51	23.53	23.34	23.45	23.48	23.42	23.49	23.53	23.38
EIRP(Watts)	0.2244	0.2254	0.2158	0.2213	0.2228	0.2198	0.2234	0.2254	0.2178



LTE Band 66 (GT - LC = -0.96 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)	23.76	23.75	23.59	23.81	23.82	23.64	23.80	23.66	23.60
Conducted Power (Watts)	0.2377	0.2371	0.2286	0.2404	0.2410	0.2312	0.2399	0.2323	0.2291
EIRP(dBm)	22.80	22.79	22.63	22.85	22.86	22.68	22.84	22.70	22.64
EIRP(Watts)	0.1905	0.1901	0.1832	0.1928	0.1932	0.1854	0.1923	0.1862	0.1837

LTE Band 66 (GT - LC = -0.96 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)	23.85	23.80	23.65	23.80	23.77	23.74	23.87	23.89	23.76
Conducted Power (Watts)	0.2427	0.2399	0.2317	0.2399	0.2382	0.2366	0.2438	0.2449	0.2377
EIRP(dBm)	22.89	22.84	22.69	22.84	22.81	22.78	22.91	22.93	22.80
EIRP(Watts)	0.1945	0.1923	0.1858	0.1923	0.1910	0.1897	0.1954	0.1963	0.1905



LTE Band 66 (GT - LC = -0.96 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)	22.64	22.60	22.47	22.73	22.66	22.55	22.72	22.60	22.56
Conducted Power (Watts)	0.1837	0.1820	0.1766	0.1875	0.1845	0.1799	0.1871	0.1820	0.1803
EIRP(dBm)	21.68	21.64	21.51	21.77	21.70	21.59	21.76	21.64	21.60
EIRP(Watts)	0.1472	0.1459	0.1416	0.1503	0.1479	0.1442	0.1500	0.1459	0.1445

LTE Band 66 (GT - LC = -0.96 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)	22.83	22.84	22.72	22.72	22.74	22.72	22.74	22.80	22.76
Conducted Power (Watts)	0.1919	0.1923	0.1871	0.1871	0.1879	0.1871	0.1879	0.1905	0.1888
EIRP(dBm)	21.87	21.88	21.76	21.76	21.78	21.76	21.78	21.84	21.80
EIRP(Watts)	0.1538	0.1542	0.1500	0.1500	0.1507	0.1500	0.1507	0.1528	0.1514

**CA EIRP**

LTE Band 5B CA (GT - LC = -2.30 dB) QPSK			
Bandwidth	10M+10M		
Channel PCC	20450	20476	20501
	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.67	23.71	23.7
Conducted Power (Watts)	0.2328	0.2350	0.2344
ERP(dBm)	19.22	19.26	19.25
ERP(Watts)	0.0836	0.0843	0.0841

LTE Band 5B CA (GT - LC = -2.30 dB) 16QAM			
Bandwidth	10M+10M		
Channel PCC	20450	20476	20501
	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.60	22.7	22.76
Conducted Power (Watts)	0.1820	0.1862	0.1888
ERP(dBm)	18.15	18.25	18.31
ERP(Watts)	0.0653	0.0668	0.0678



LTE Band 5B CA (GT - LC = -2.30 dB) 64QAM			
Bandwidth	10M+10M		
Channel PCC	20450	20476	20501
	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.03	22.12	21.9
Conducted Power (Watts)	0.1596	0.1629	0.1549
ERP(dBm)	17.58	17.67	17.45
ERP(Watts)	0.0573	0.0585	0.0556

LTE Band 66C_CA (GT - LC = -0.96 dB) QPSK			
Bandwidth	20M + 20M		
Channel PCC	132005	132330	132455
	(Low)	(Mid)	(High)
Channel SCC	132122	132447	132572
	(Low)	(Mid)	(High)
Conducted Power (dBm)	24.22	24.24	24.17
Conducted Power (Watts)	0.2642	0.2655	0.2612
EIRP(dBm)	23.26	23.28	23.21
EIRP(Watts)	0.2118	0.2128	0.2094



LTE Band 66C_CA (GT - LC = -0.96 dB) 16QAM			
Bandwidth	20M + 20M		
Channel PCC	132005	132330	132455
	(Low)	(Mid)	(High)
Channel SCC	132122	132447	132572
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.23	23.1	23.01
Conducted Power (Watts)	0.2104	0.2042	0.2000
EIRP(dBm)	22.27	22.14	22.05
EIRP(Watts)	0.1687	0.1637	0.1603

LTE Band 66C_CA (GT - LC = -0.96 dB) 64QAM			
Bandwidth	20M + 20M		
Channel PCC	132005	132330	132455
	(Low)	(Mid)	(High)
Channel SCC	132122	132447	132572
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.34	22.21	22.43
Conducted Power (Watts)	0.1714	0.1663	0.1750
EIRP(dBm)	21.38	21.25	21.47
EIRP(Watts)	0.1374	0.1334	0.1403



LTE Band 66B_CA (GT - LC = -0.96 dB) QPSK			
Bandwidth	15M+5M		
Channel PCC	132047	132398	132549
	(Low)	(Mid)	(High)
Channel SCC	132140	132491	132642
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.92	23.97	23.87
Conducted Power (Watts)	0.2466	0.2495	0.2438
EIRP(dBm)	22.96	23.01	22.91
EIRP(Watts)	0.1977	0.2000	0.1954

LTE Band 66B_CA (GT - LC = -0.96 dB) 16QAM			
Bandwidth	15M+5M		
Channel PCC	132047	132398	132549
	(Low)	(Mid)	(High)
Channel SCC	132140	132491	132642
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.01	22.98	22.81
Conducted Power (Watts)	0.2000	0.1986	0.1910
EIRP(dBm)	22.05	22.02	21.85
EIRP(Watts)	0.1603	0.1592	0.1531



LTE Band 66B_CA (GT - LC = -0.96 dB) 64QAM			
Bandwidth	15M+5M		
Channel PCC	132047	132398	132549
	(Low)	(Mid)	(High)
Channel SCC	132140	132491	132642
	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.98	22.03	22.12
Conducted Power (Watts)	0.1578	0.1596	0.1629
EIRP(dBm)	21.02	21.07	21.16
EIRP(Watts)	0.1265	0.1279	0.1306



LTE Band 2

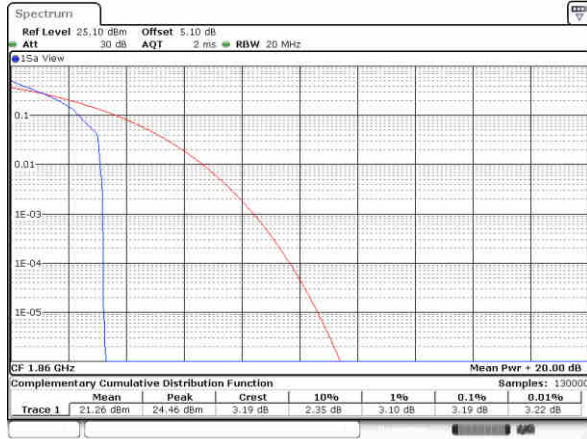
Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.19	4.58	4.55	5.62	PASS
Middle CH	3.28	4.52	4.49	5.45	
Highest CH	3.19	4.29	4.29	5.28	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.26	6.23	-	-	PASS
Middle CH	5.59	6.17	-	-	
Highest CH	6.06	5.97	-	-	

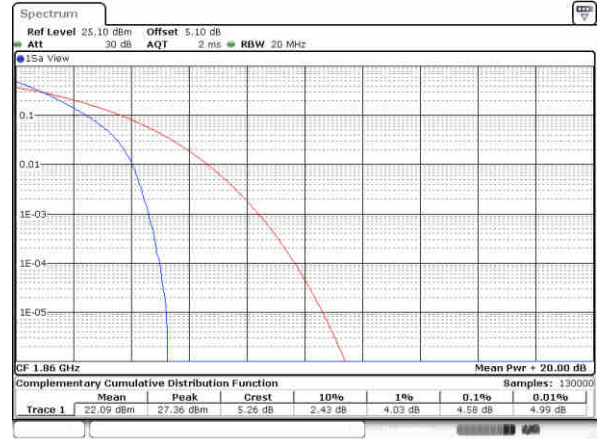


LTE Band 2 / 20MHz / QPSK

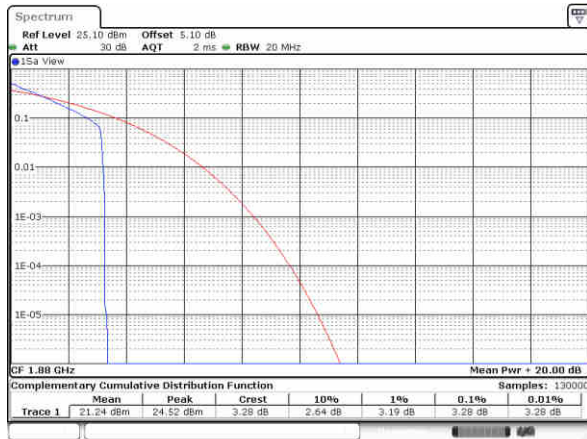
Lowest Channel / 1RB



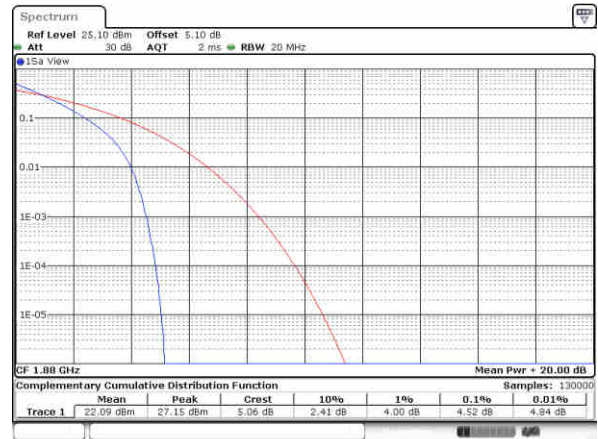
Lowest Channel / Full RB



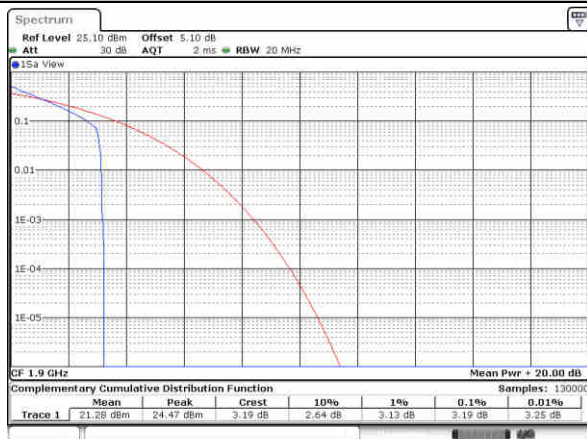
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



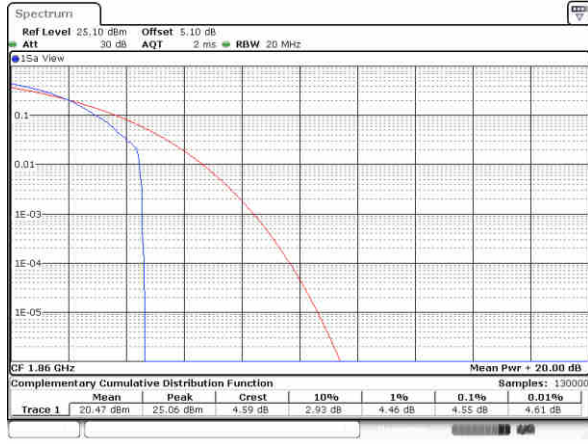
Highest Channel / Full RB



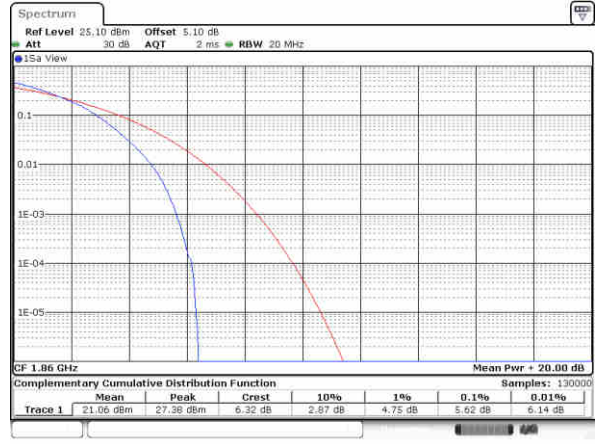


LTE Band 2 / 20MHz / 16QAM

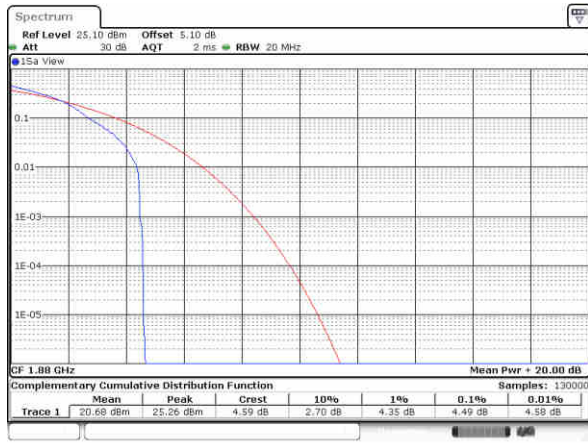
Lowest Channel / 1RB



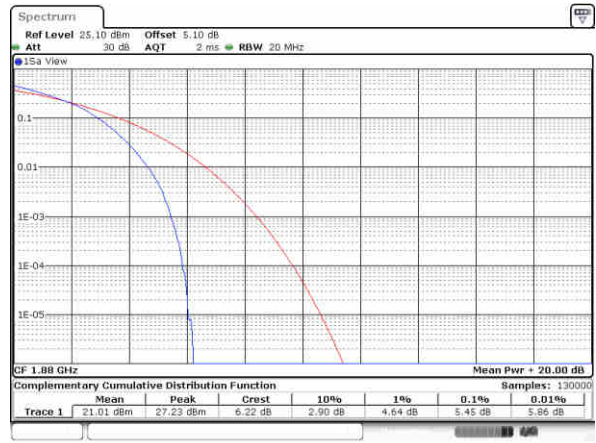
Lowest Channel / Full RB



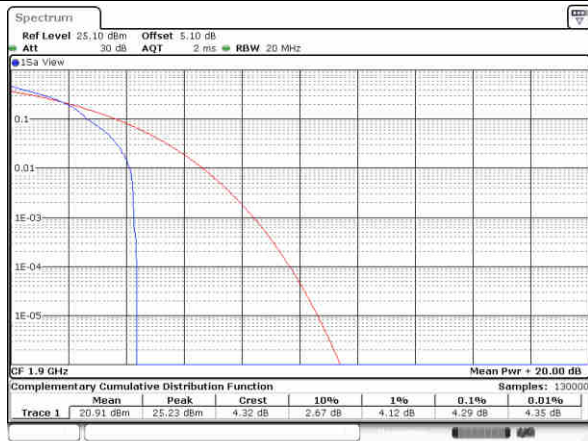
Middle Channel / 1RB



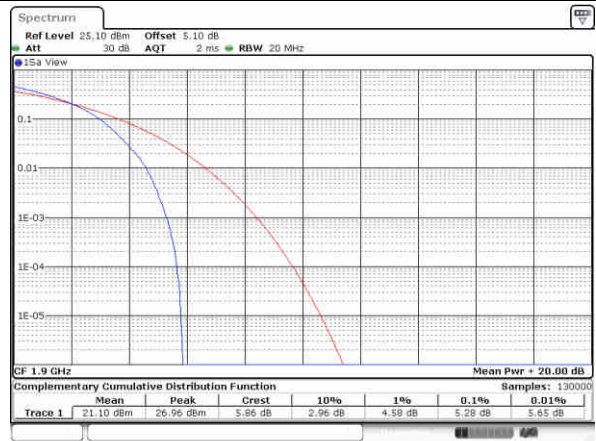
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

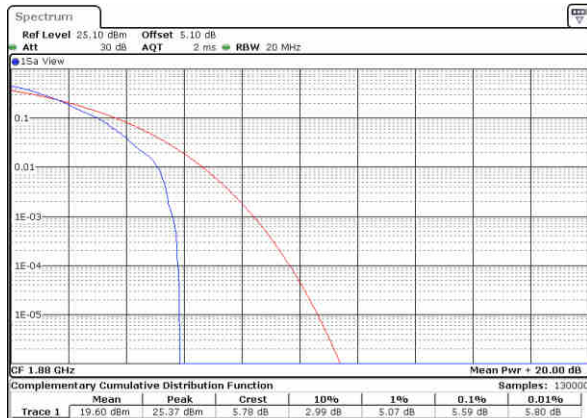


LTE Band 2 / 20MHz / 64QAM
Lowest Channel / 1RB


Date: 25-JUN-2020 10:46:12

Lowest Channel / Full RB


Date: 25-JUN-2020 10:46:21

Middle Channel / 1RB


Date: 25-JUN-2020 10:46:30

Middle Channel / Full RB


Date: 25-JUN-2020 10:46:40

Highest Channel / 1RB


Date: 25-JUN-2020 10:46:49

Highest Channel / Full RB


Date: 25-JUN-2020 10:46:57

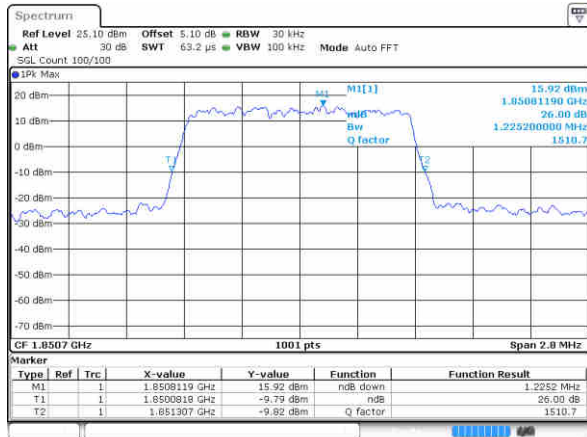
**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.24	2.97	3.04	4.90	4.81	9.81	9.69	14.54	14.57	20.06	20.14
Middle CH	1.23	1.23	3.05	3.06	4.97	4.90	9.83	9.67	14.72	14.27	20.14	20.30
Highest CH	1.23	1.24	3.06	3.06	4.86	4.88	9.77	9.85	14.24	14.33	20.10	20.10
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	3.05	-	4.86	-	9.81	-	14.30	-	20.18	-
Middle CH	1.23	-	3.02	-	4.86	-	9.85	-	14.54	-	20.18	-
Highest CH	1.24	-	2.94	-	4.86	-	9.73	-	14.54	-	20.14	-

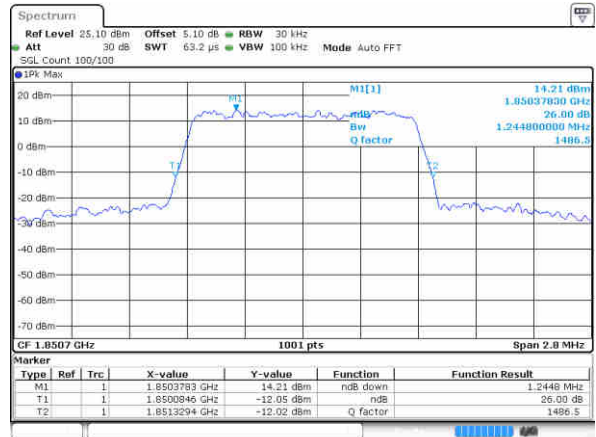


LTE Band 2

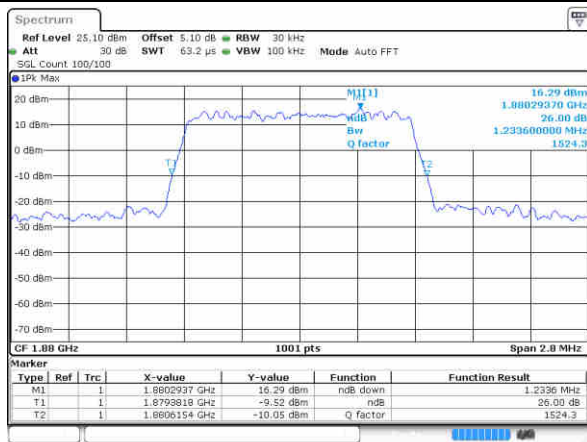
Lowest Channel / 1.4MHz / QPSK



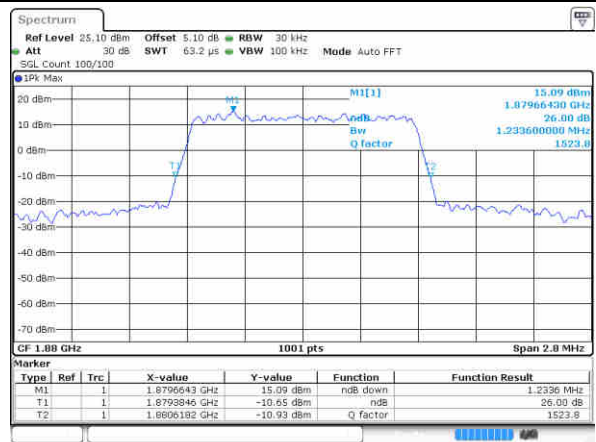
Lowest Channel / 1.4MHz / 16QAM



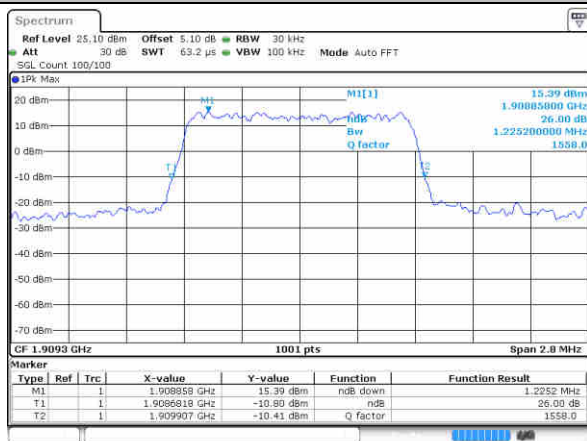
Middle Channel / 1.4MHz / QPSK



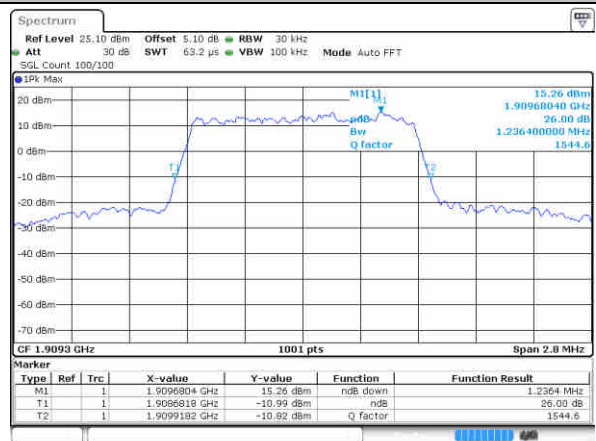
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



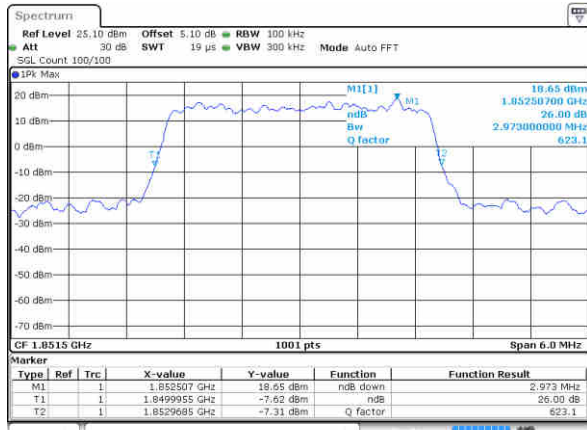
Highest Channel / 1.4MHz / 16QAM





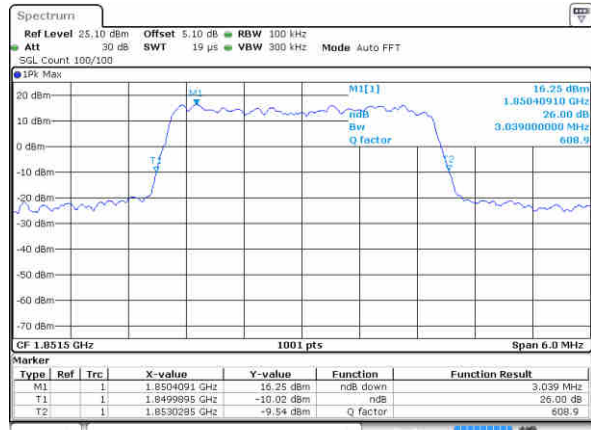
LTE Band 2

Lowest Channel / 3MHz / QPSK



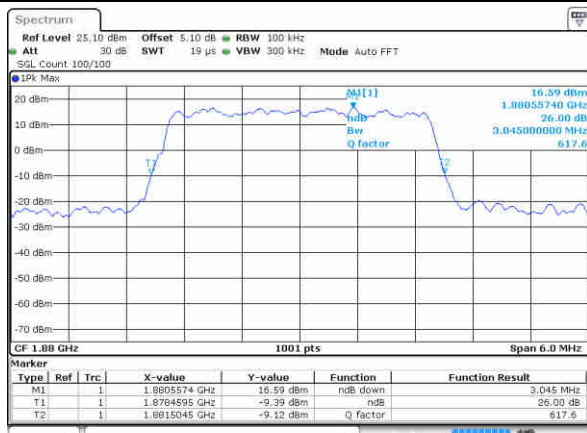
Date: 25 JUN 2020 09:42:15

Lowest Channel / 3MHz / 16QAM



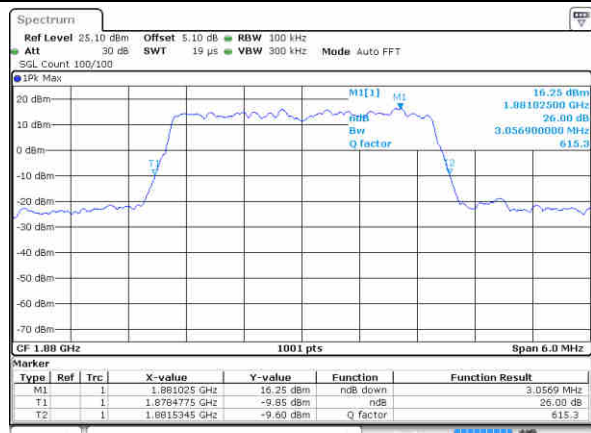
Date: 25 JUN 2020 09:42:25

Middle Channel / 3MHz / QPSK



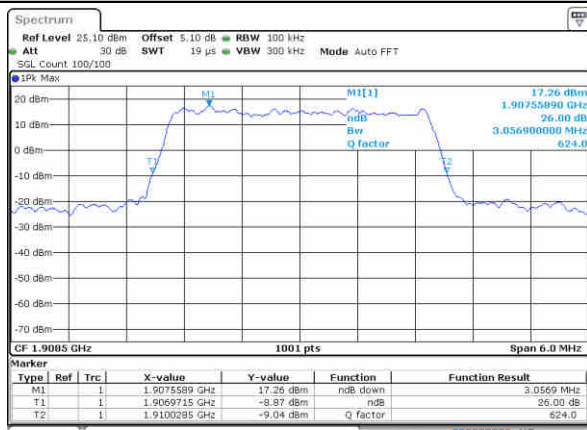
Date: 25 JUN 2020 09:49:19

Middle Channel / 3MHz / 16QAM



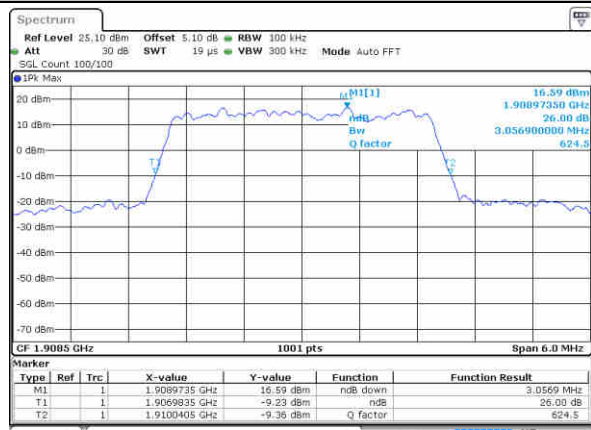
Date: 25 JUN 2020 09:49:29

Highest Channel / 3MHz / QPSK



Date: 25 JUN 2020 09:51:47

Highest Channel / 3MHz / 16QAM

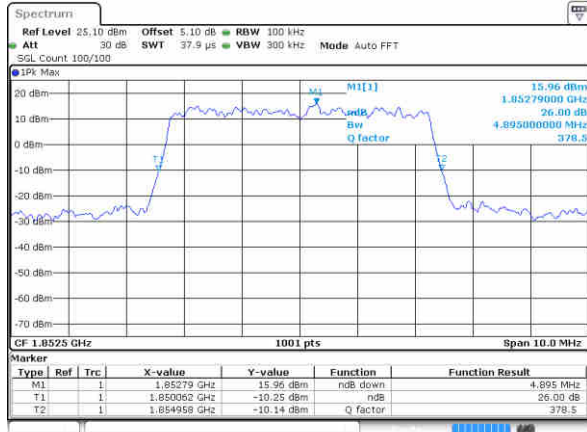


Date: 25 JUN 2020 09:51:58



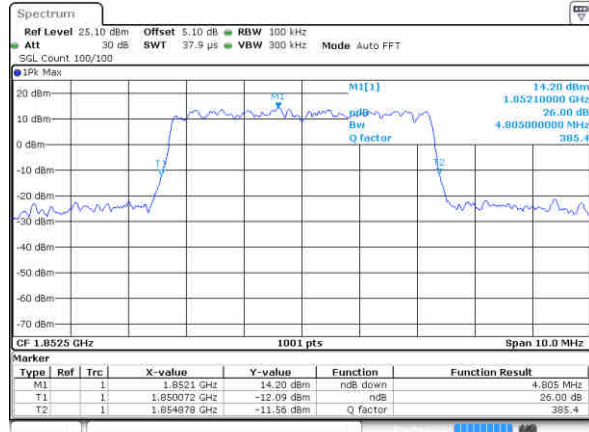
LTE Band 2

Lowest Channel / 5MHz / QPSK



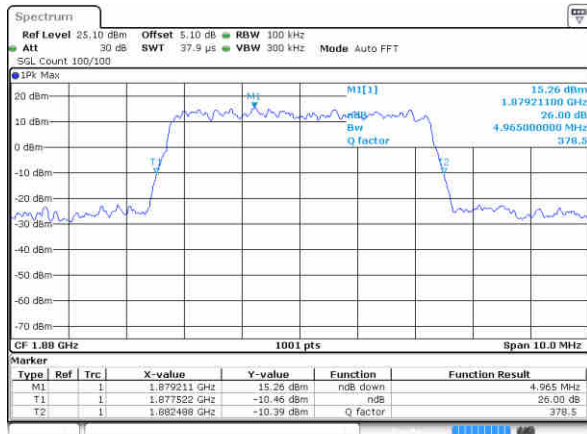
Date: 25 JUN 2020 09:58:51

Lowest Channel / 5MHz / 16QAM



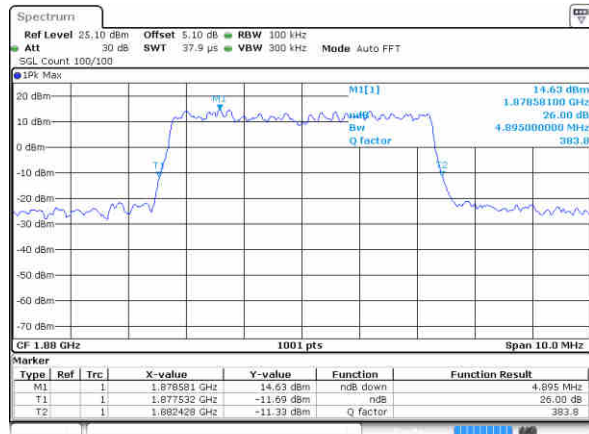
Date: 25 JUN 2020 09:59:01

Middle Channel / 5MHz / QPSK



Date: 25 JUN 2020 10:05:55

Middle Channel / 5MHz / 16QAM



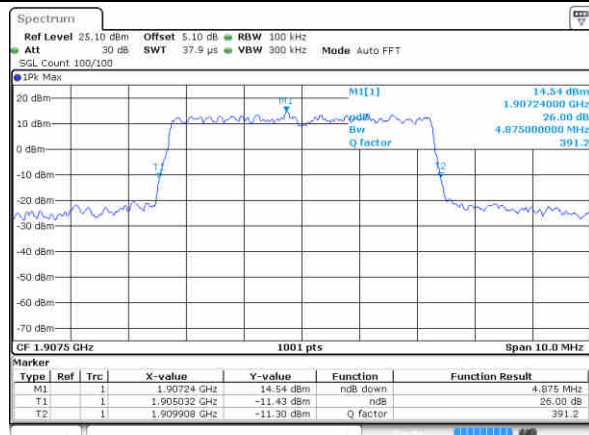
Date: 25 JUN 2020 10:06:05

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2020 10:08:23

Highest Channel / 5MHz / 16QAM

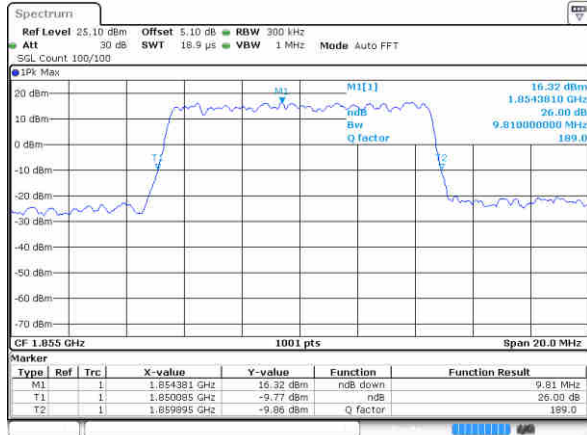


Date: 25 JUN 2020 10:08:33

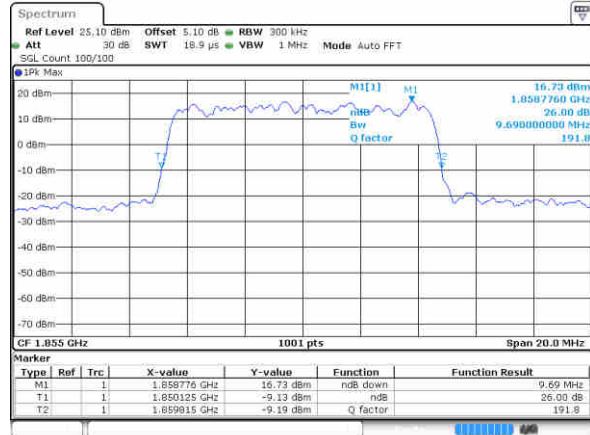


LTE Band 2

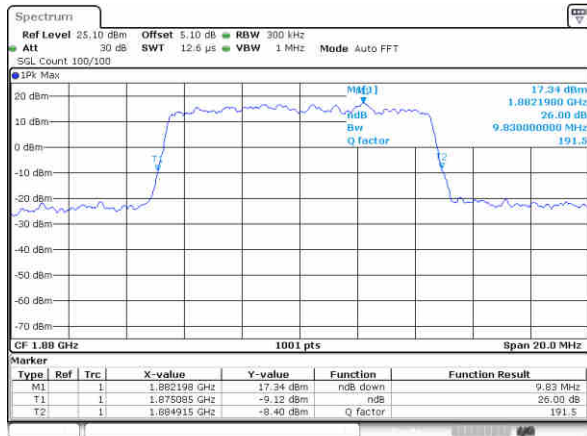
Lowest Channel / 10MHz / QPSK



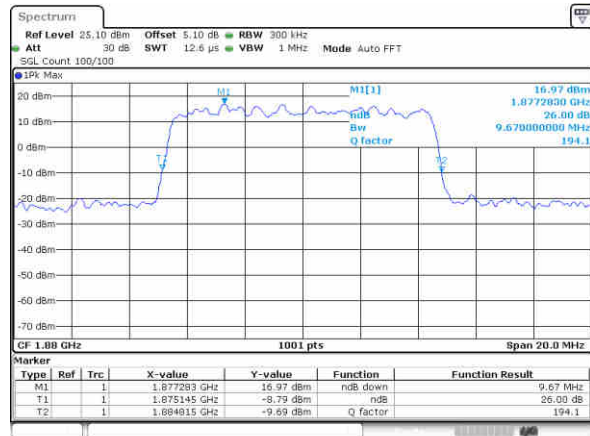
Lowest Channel / 10MHz / 16QAM



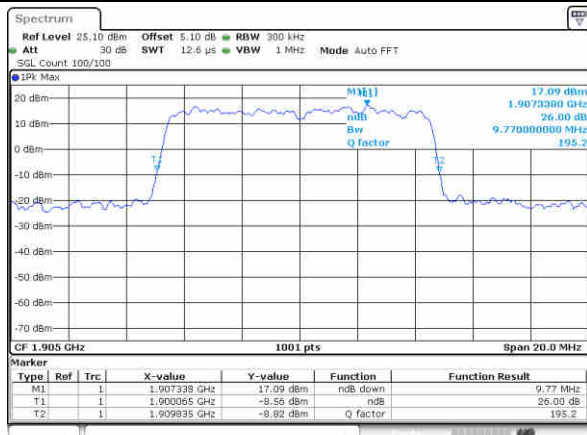
Middle Channel / 10MHz / QPSK



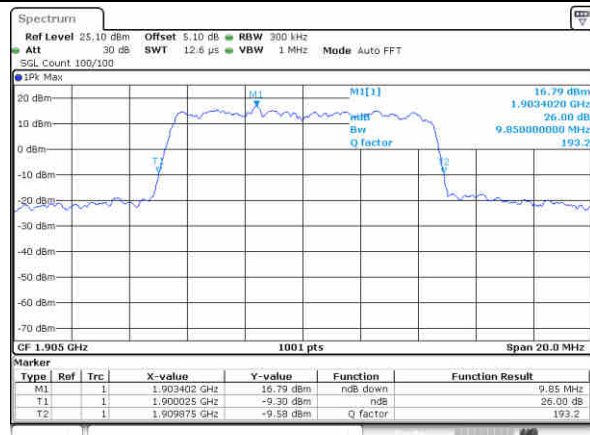
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



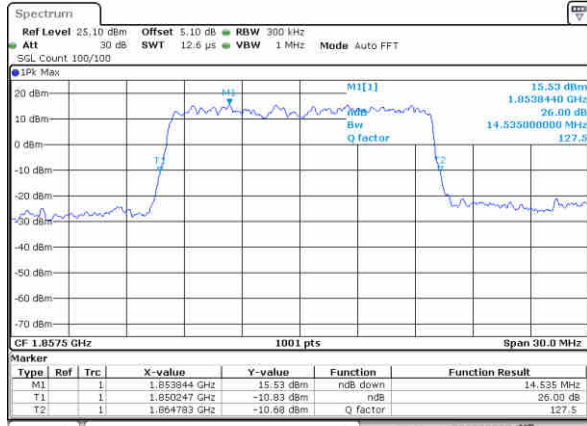
Highest Channel / 10MHz / 16QAM





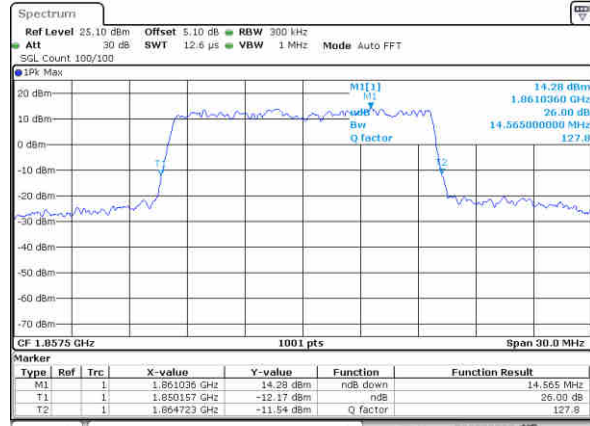
LTE Band 2

Lowest Channel / 15MHz / QPSK



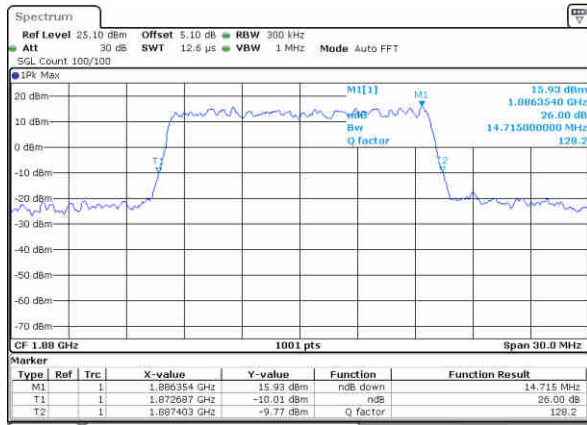
Date: 25-JUN-2020 09:19:01

Lowest Channel / 15MHz / 16QAM



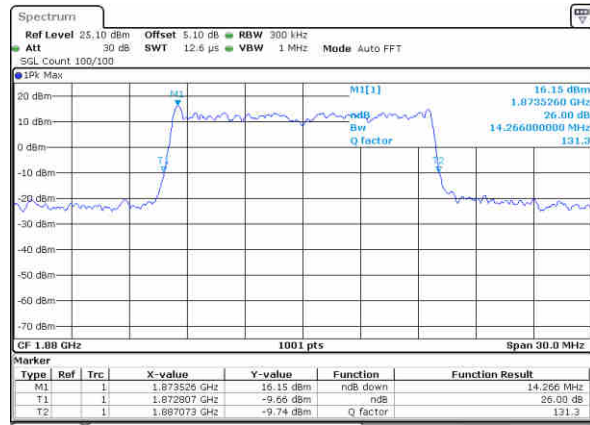
Date: 25-JUN-2020 09:19:11

Middle Channel / 15MHz / QPSK



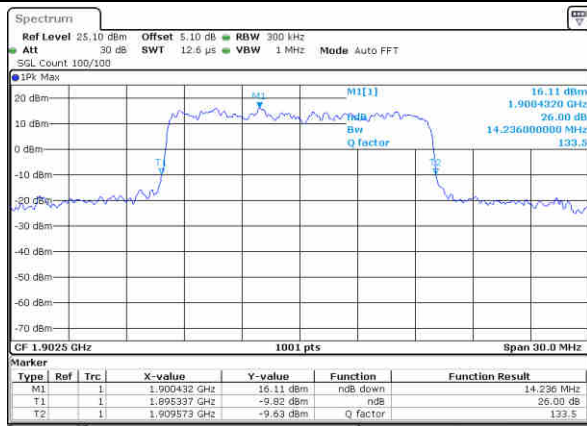
Date: 25-JUN-2020 09:26:08

Middle Channel / 15MHz / 16QAM



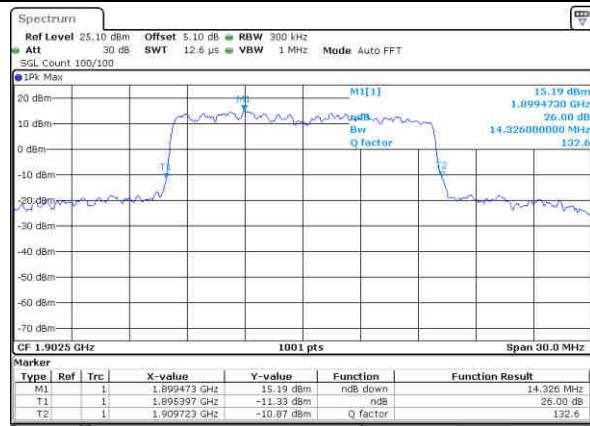
Date: 25-JUN-2020 09:26:15

Highest Channel / 15MHz / QPSK



Date: 25-JUN-2020 09:28:42

Highest Channel / 15MHz / 16QAM

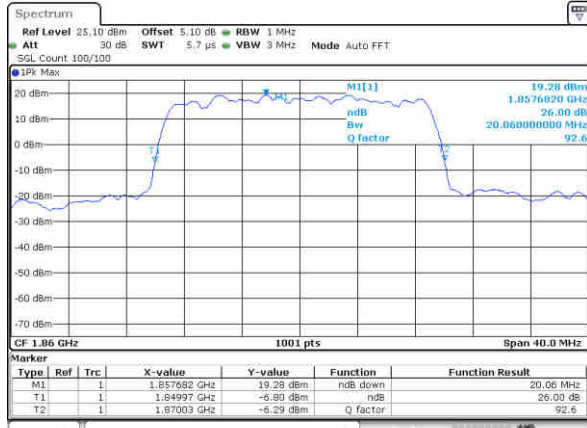


Date: 25-JUN-2020 09:28:52

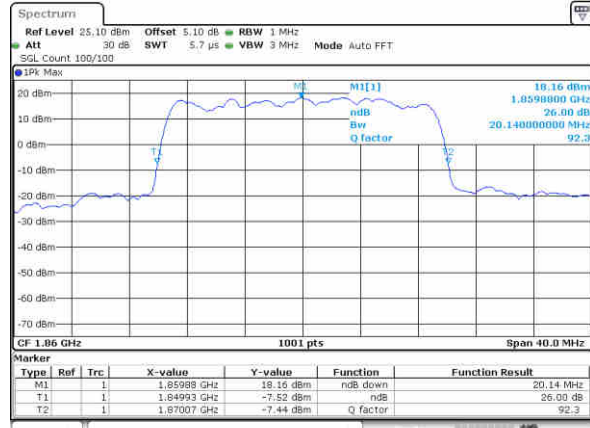


LTE Band 2

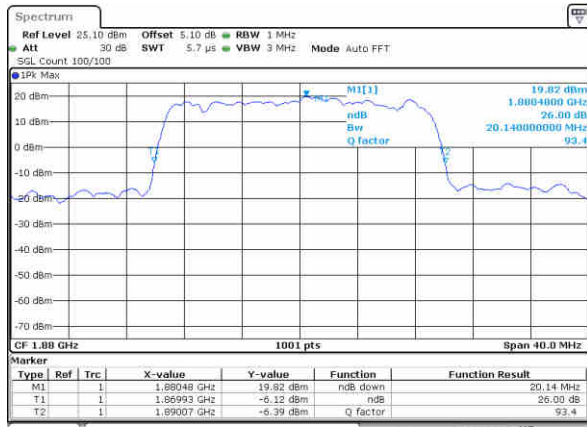
Lowest Channel / 20MHz / QPSK



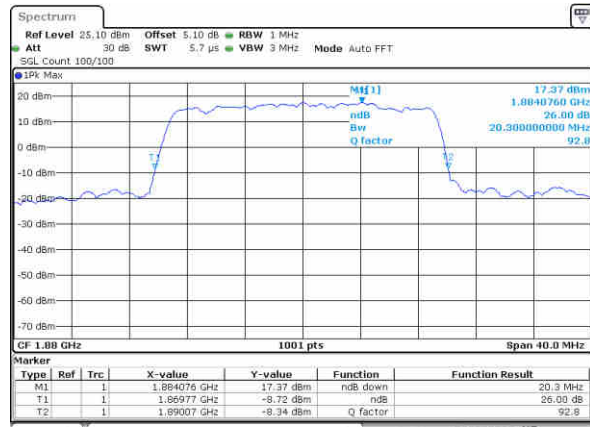
Lowest Channel / 20MHz / 16QAM



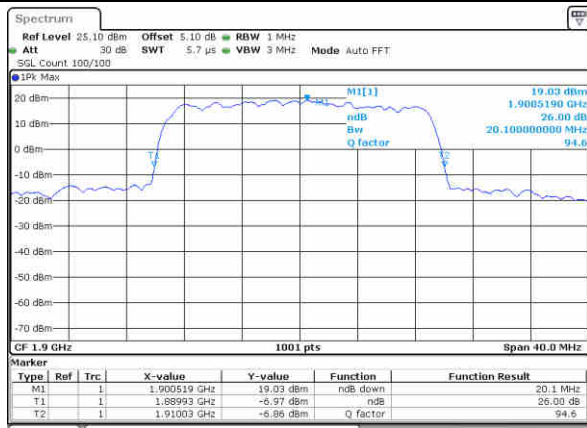
Middle Channel / 20MHz / QPSK



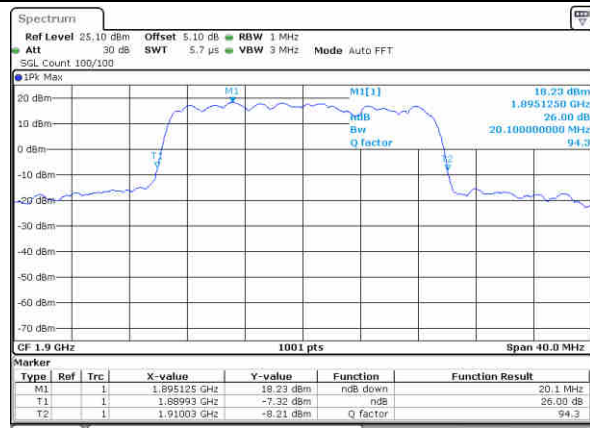
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



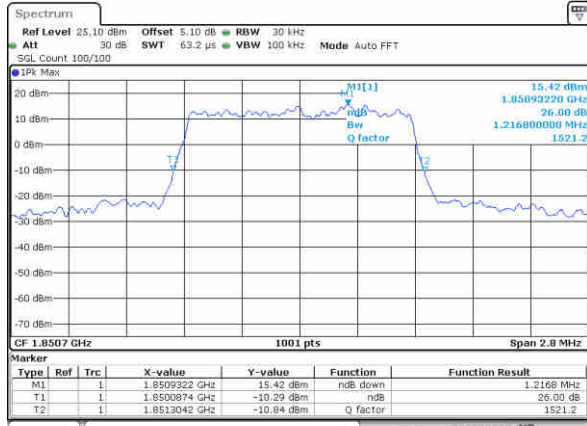
Highest Channel / 20MHz / 16QAM



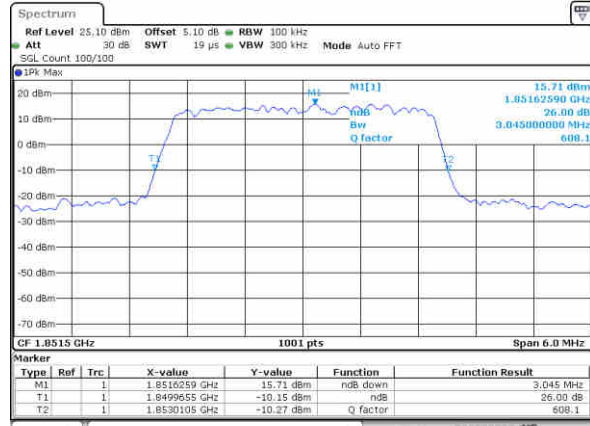


LTE Band 2

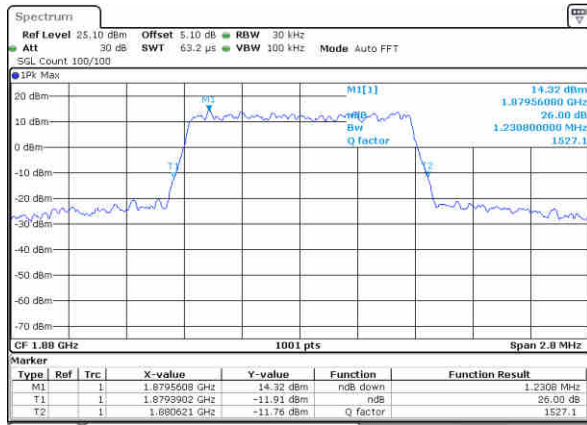
Lowest Channel / 1.4MHz / 64QAM



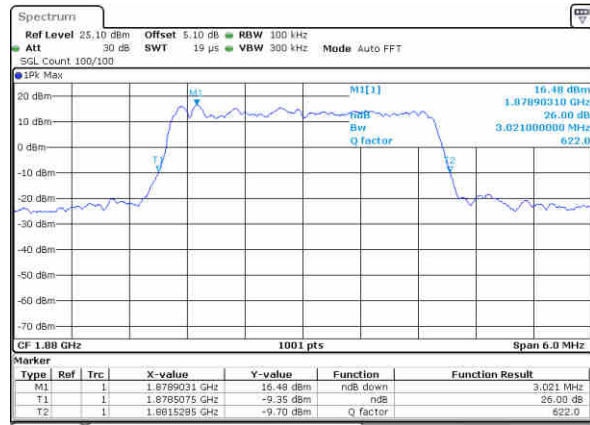
Lowest Channel / 3MHz / 64QAM



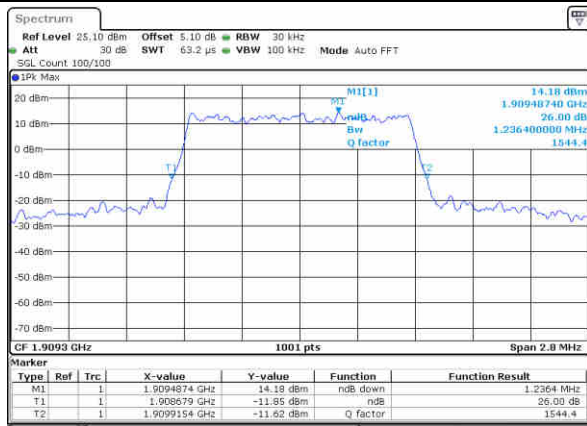
Middle Channel / 1.4MHz / 64QAM



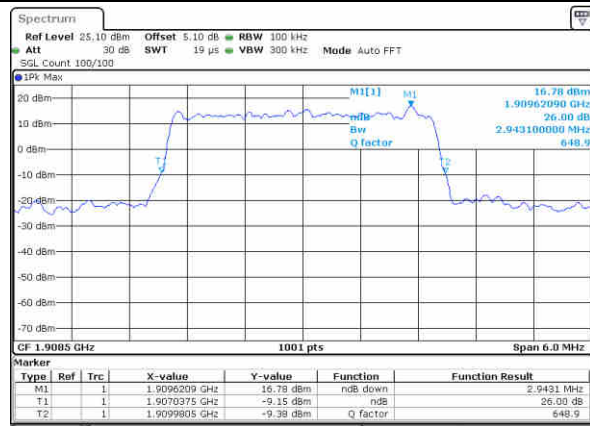
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



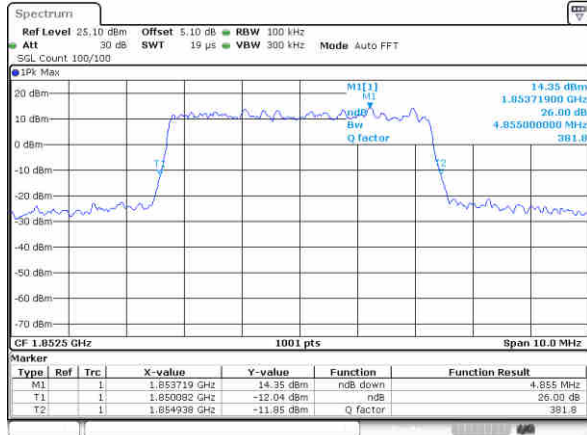
Highest Channel / 3MHz / 64QAM





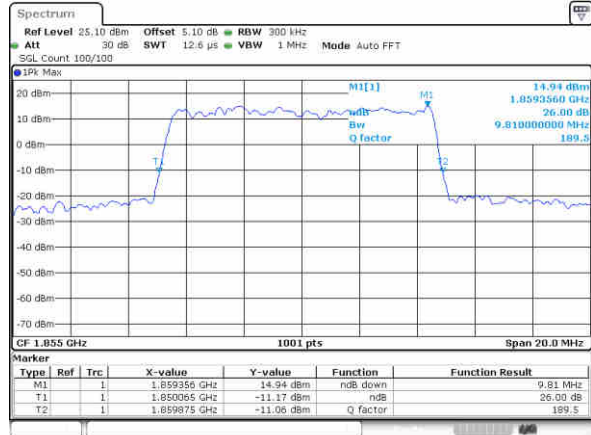
LTE Band 2

Lowest Channel / 5MHz / 64QAM



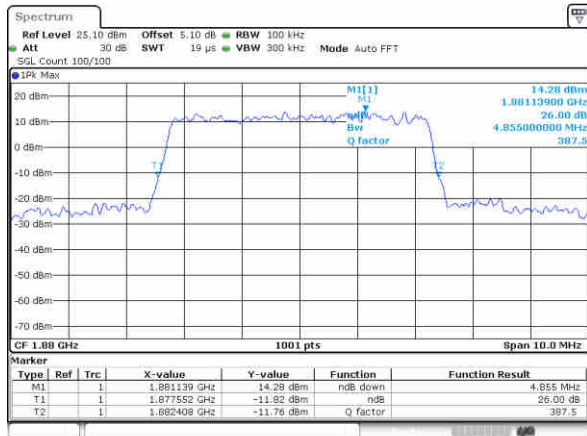
Date: 25-JUN-2020 09:58:02

Lowest Channel / 10MHz / 64QAM



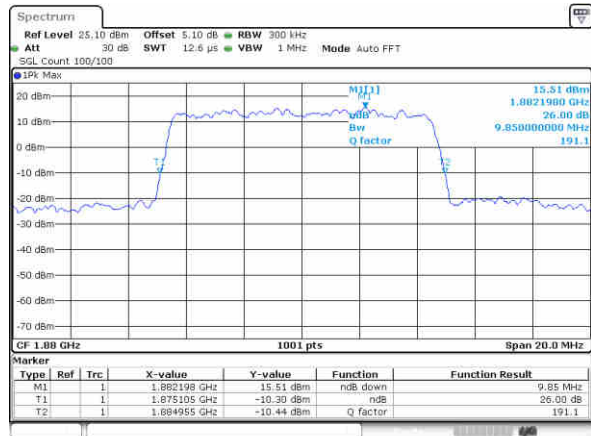
Date: 25-JUN-2020 09:58:32

Middle Channel / 5MHz / 64QAM



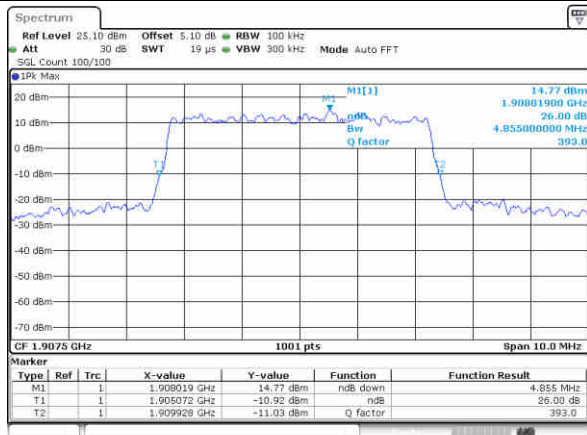
Date: 25-JUN-2020 09:58:12

Middle Channel / 10MHz / 64QAM



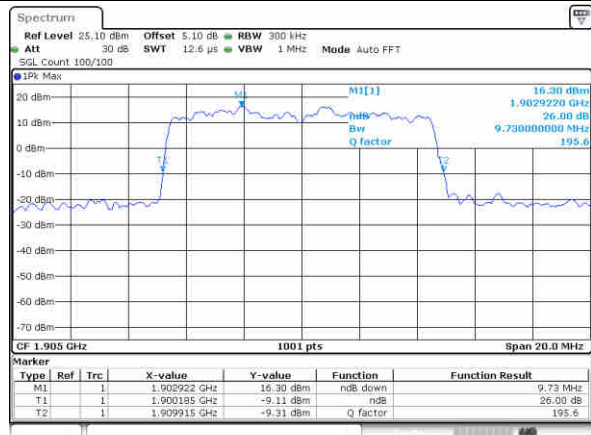
Date: 25-JUN-2020 09:58:42

Highest Channel / 5MHz / 64QAM



Date: 25-JUN-2020 09:58:22

Highest Channel / 10MHz / 64QAM

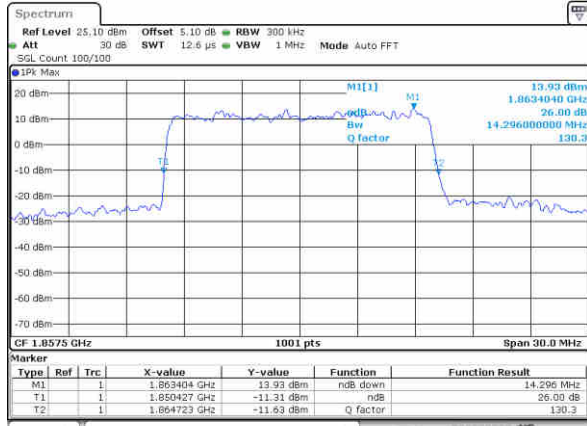


Date: 25-JUN-2020 09:58:12

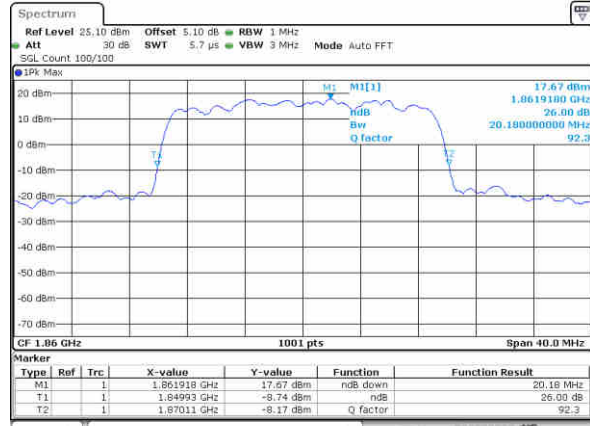


LTE Band 2

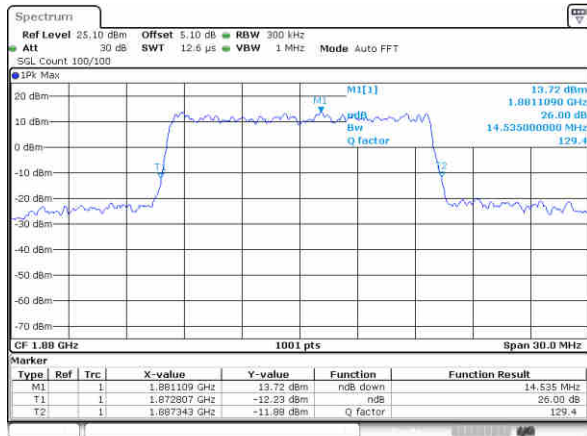
Lowest Channel / 15MHz / 64QAM



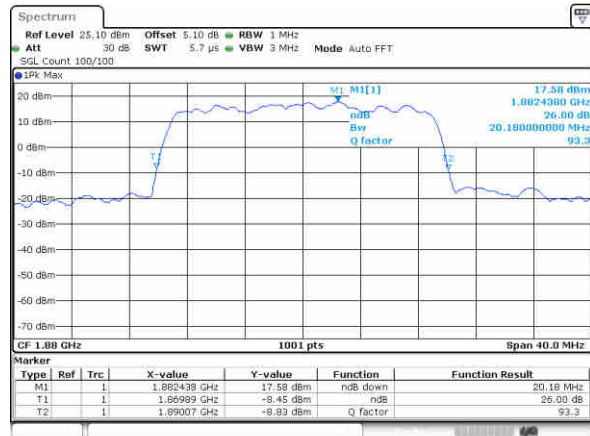
Lowest Channel / 20MHz / 64QAM



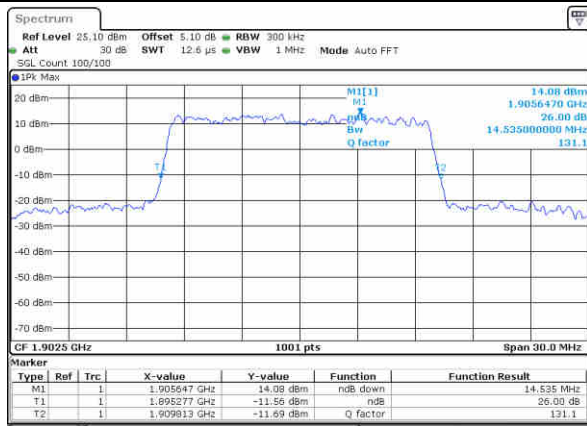
Middle Channel / 15MHz / 64QAM



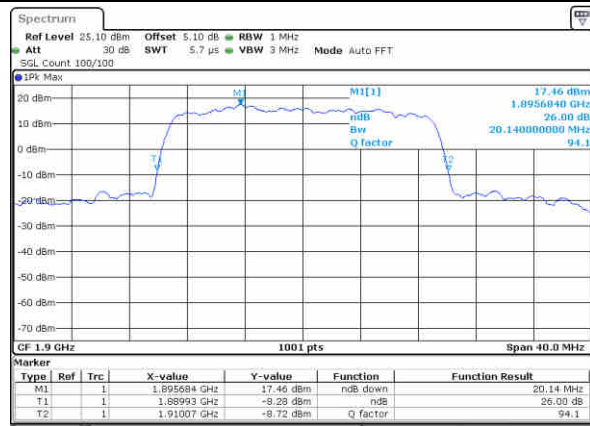
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



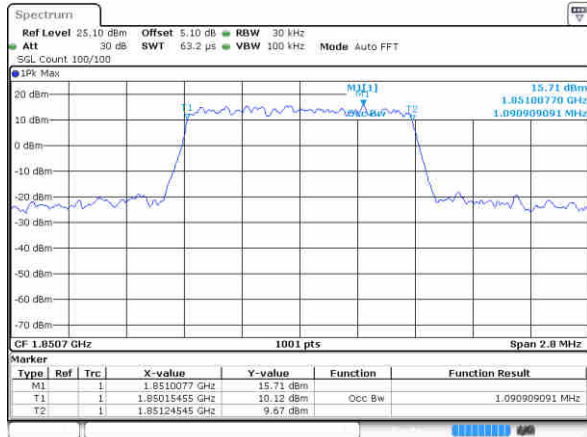
**Occupied Bandwidth**

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.72	4.49	4.49	9.03	9.03	13.43	13.46	18.34	18.26
Middle CH	1.09	1.09	2.73	2.74	4.50	4.49	8.97	8.99	13.46	13.49	18.42	18.46
Highest CH	1.09	1.09	2.72	2.74	4.49	4.50	9.01	9.01	13.40	13.43	18.46	18.30
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.50	-	9.03	-	13.46	-	18.38	-
Middle CH	1.09	-	2.72	-	4.48	-	8.95	-	13.43	-	18.54	-
Highest CH	1.09	-	2.73	-	4.51	-	9.03	-	13.43	-	18.26	-

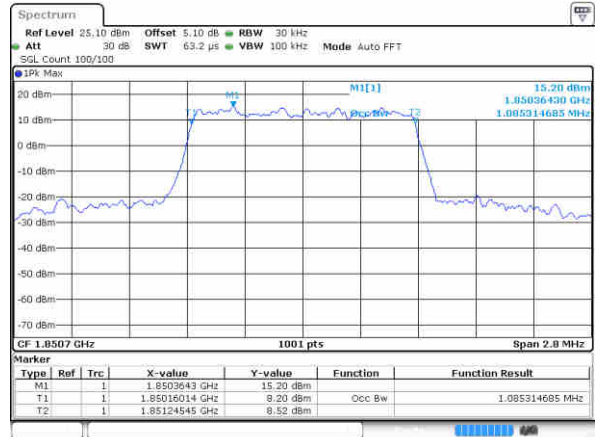


LTE Band 2

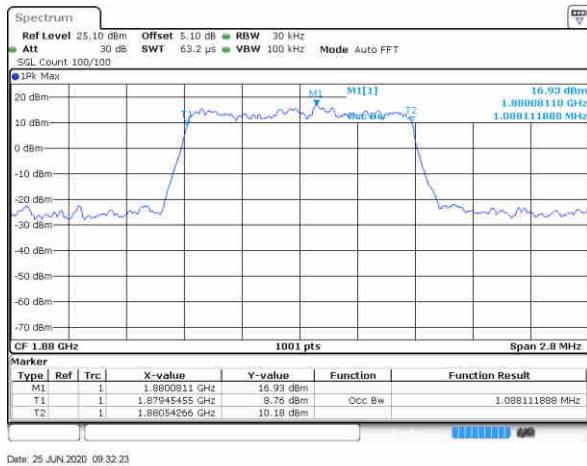
Lowest Channel / 1.4MHz / QPSK



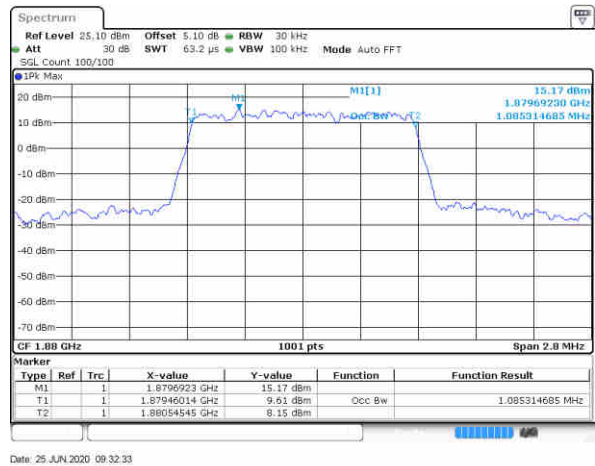
Lowest Channel / 1.4MHz / 16QAM



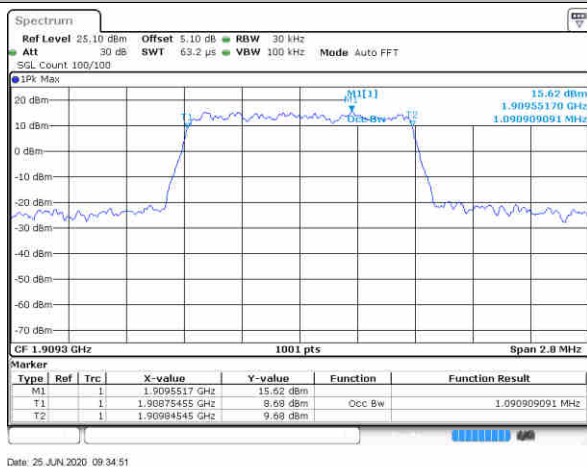
Middle Channel / 1.4MHz / QPSK



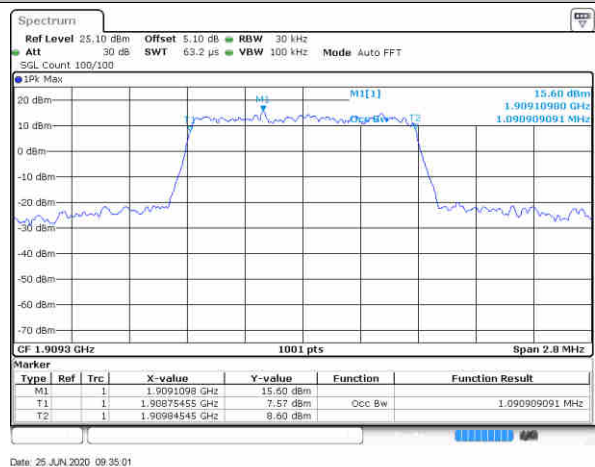
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



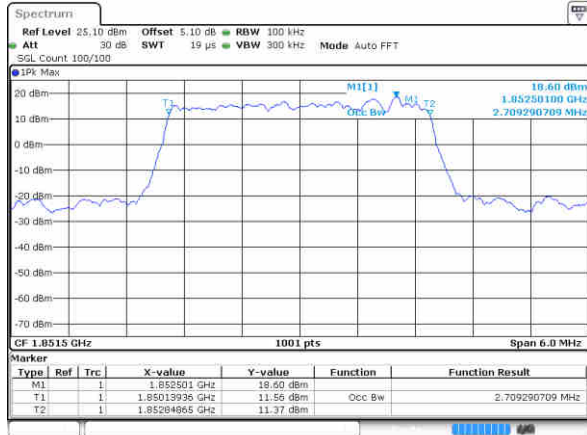
Highest Channel / 1.4MHz / 16QAM



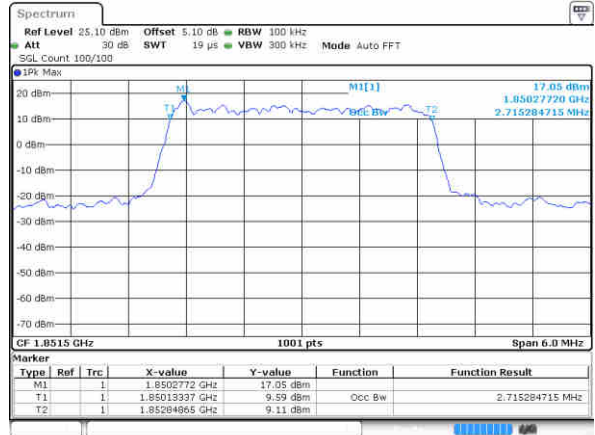


LTE Band 2

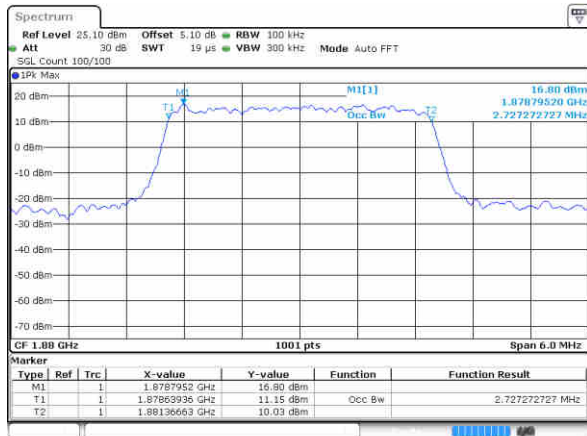
Lowest Channel / 3MHz / QPSK



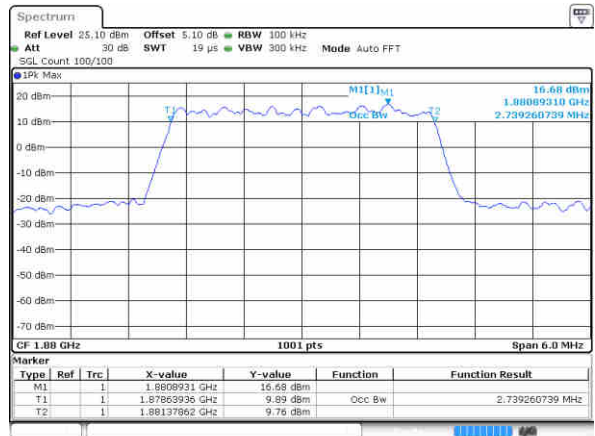
Lowest Channel / 3MHz / 16QAM



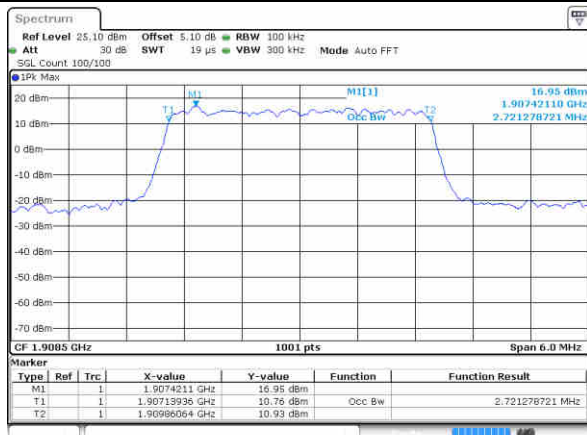
Middle Channel / 3MHz / QPSK



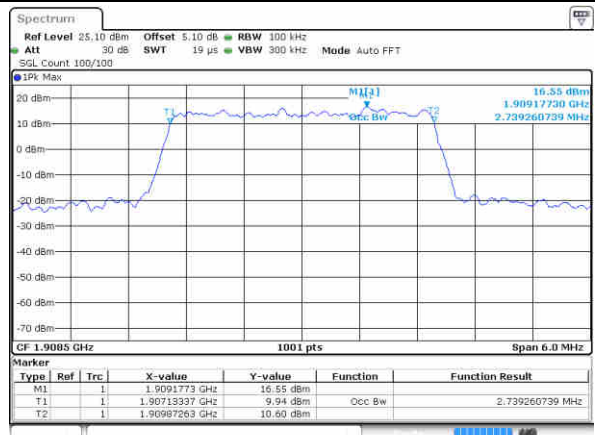
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



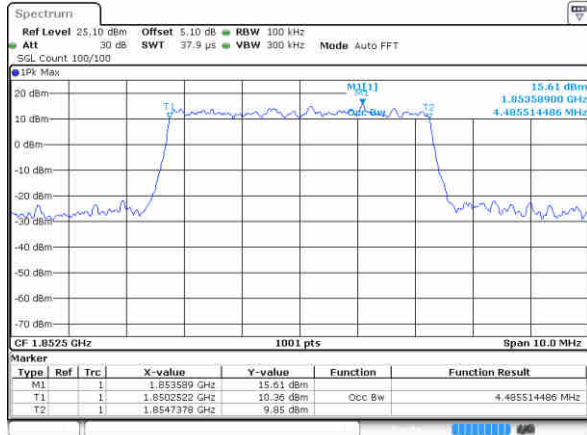
Highest Channel / 3MHz / 16QAM





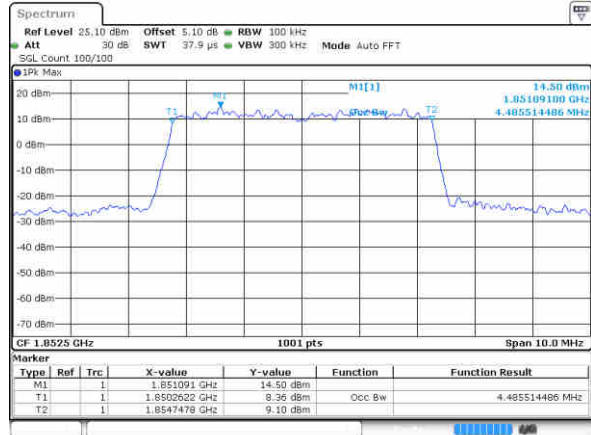
LTE Band 2

Lowest Channel / 5MHz / QPSK



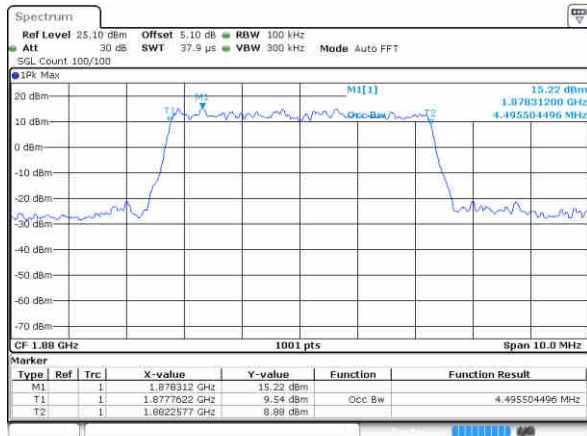
Date: 25 JUN 2020 09:58:31

Lowest Channel / 5MHz / 16QAM



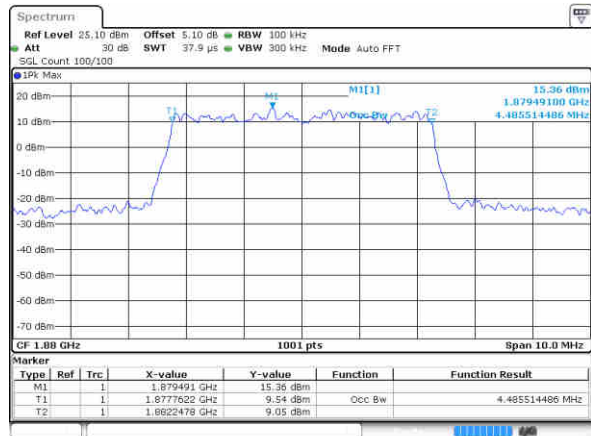
Date: 25 JUN 2020 09:58:41

Middle Channel / 5MHz / QPSK



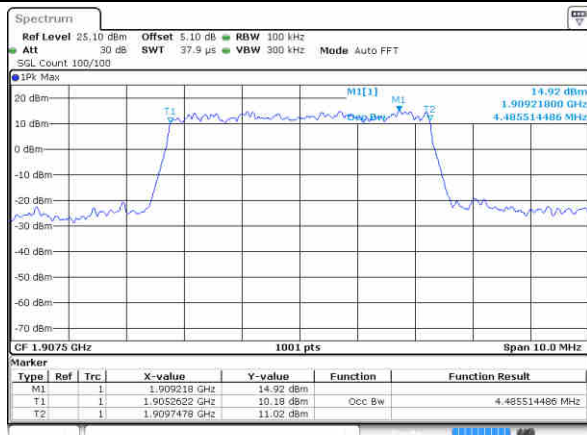
Date: 25 JUN 2020 10:05:35

Middle Channel / 5MHz / 16QAM



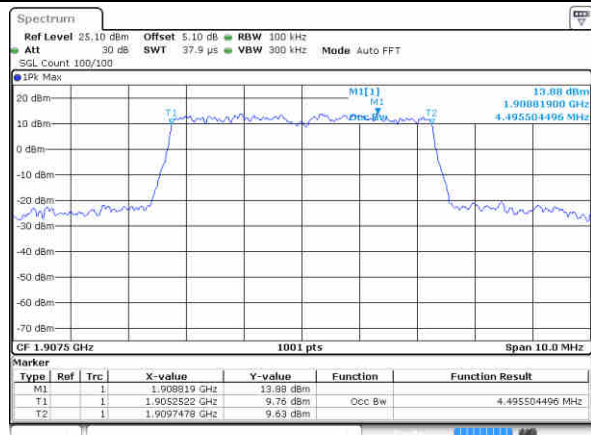
Date: 25 JUN 2020 10:05:45

Highest Channel / 5MHz / QPSK



Date: 25 JUN 2020 10:08:03

Highest Channel / 5MHz / 16QAM

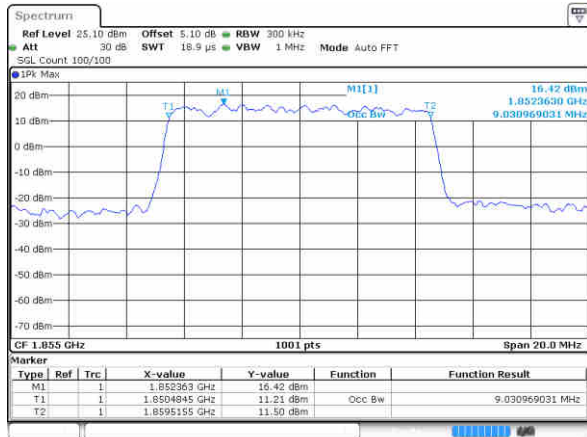


Date: 25 JUN 2020 10:08:13

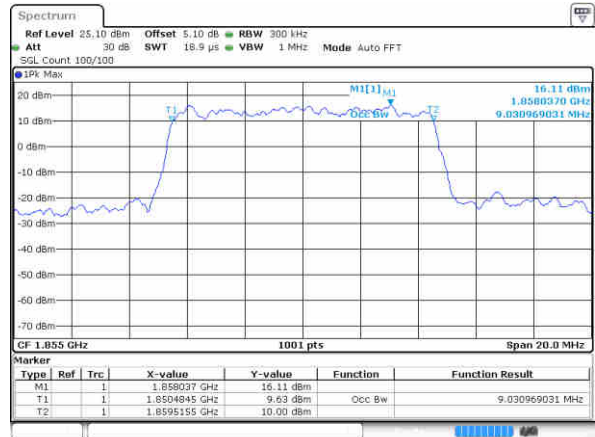


LTE Band 2

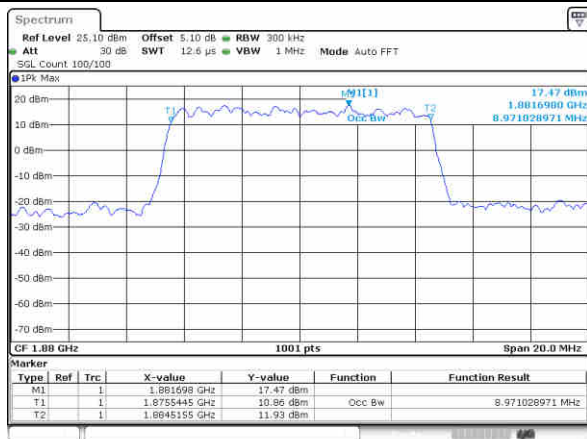
Lowest Channel / 10MHz / QPSK



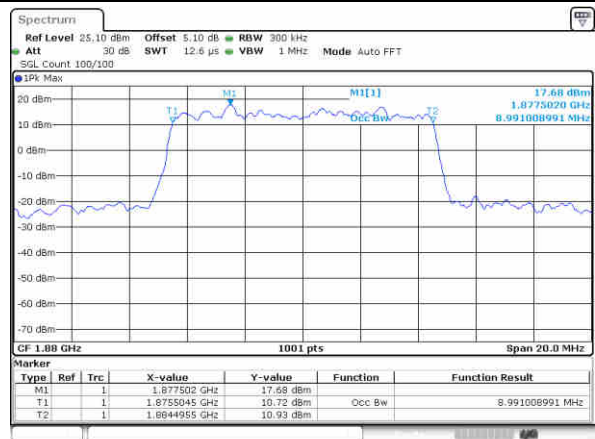
Lowest Channel / 10MHz / 16QAM



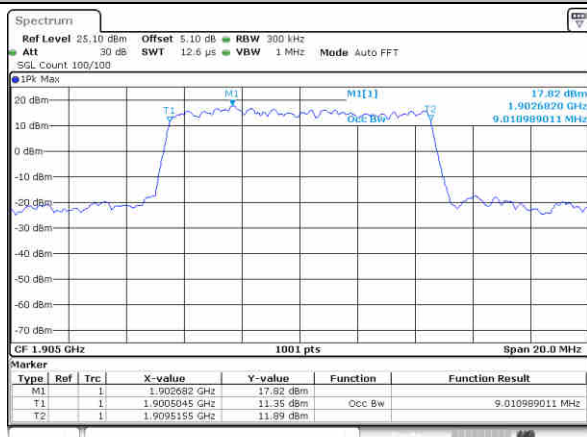
Middle Channel / 10MHz / QPSK



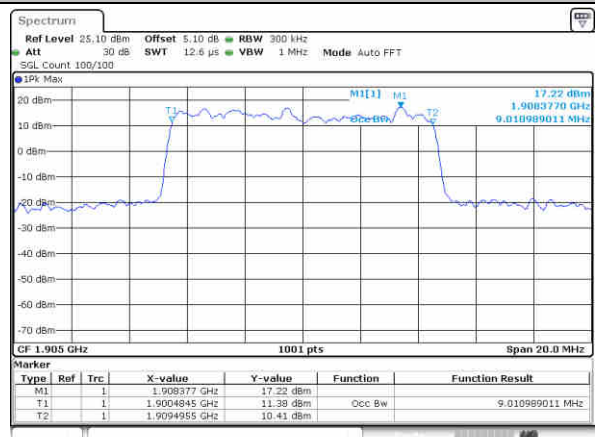
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



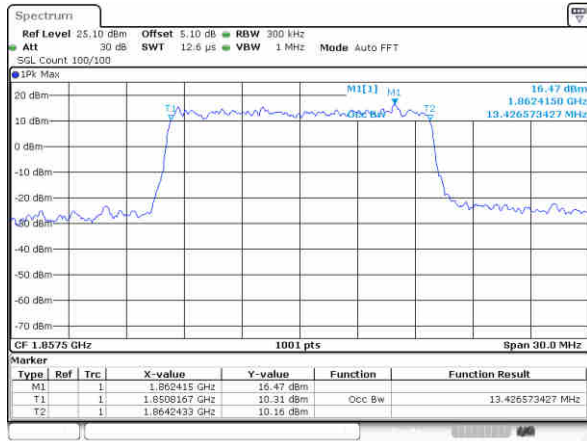
Highest Channel / 10MHz / 16QAM



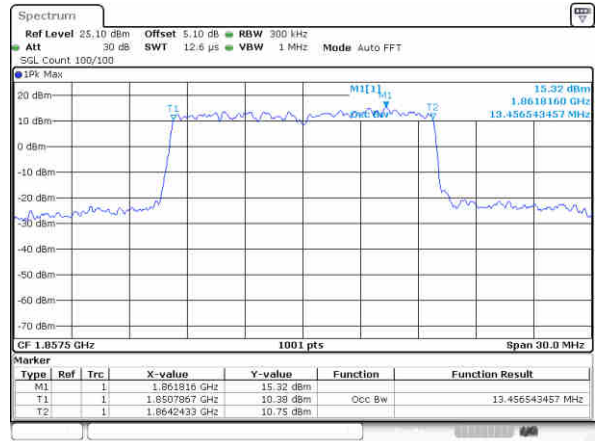


LTE Band 2

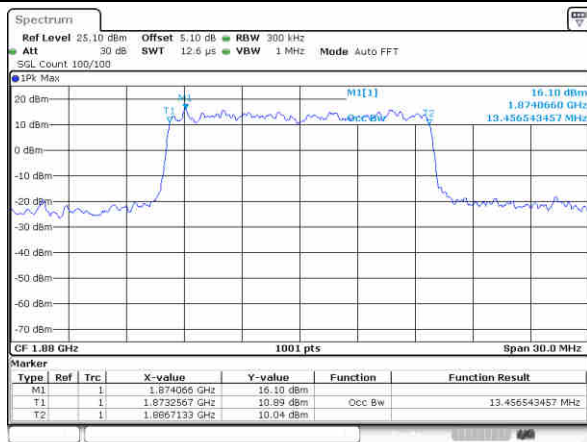
Lowest Channel / 15MHz / QPSK



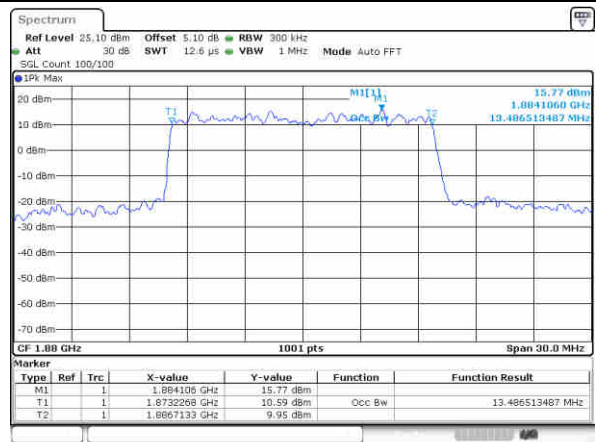
Lowest Channel / 15MHz / 16QAM



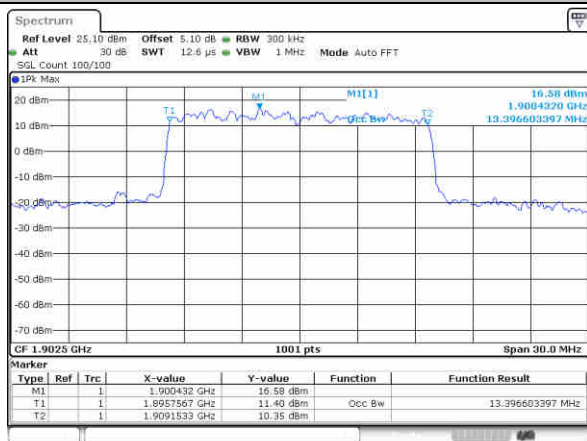
Middle Channel / 15MHz / QPSK



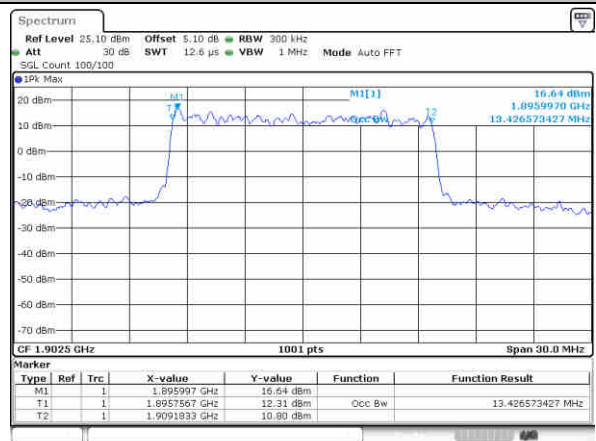
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



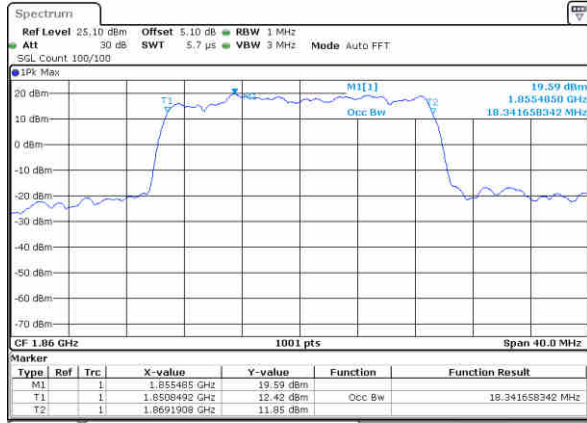
Highest Channel / 15MHz / 16QAM



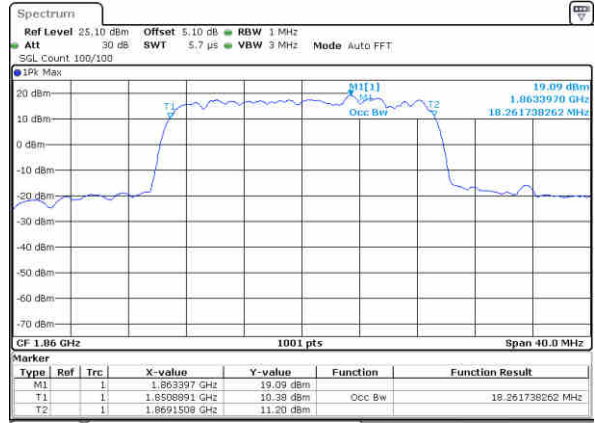


LTE Band 2

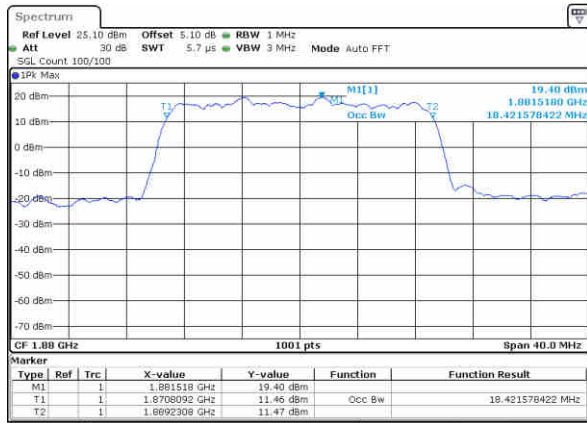
Lowest Channel / 20MHz / QPSK



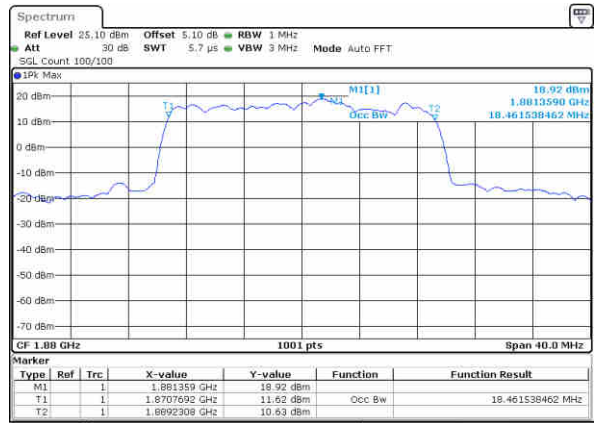
Lowest Channel / 20MHz / 16QAM



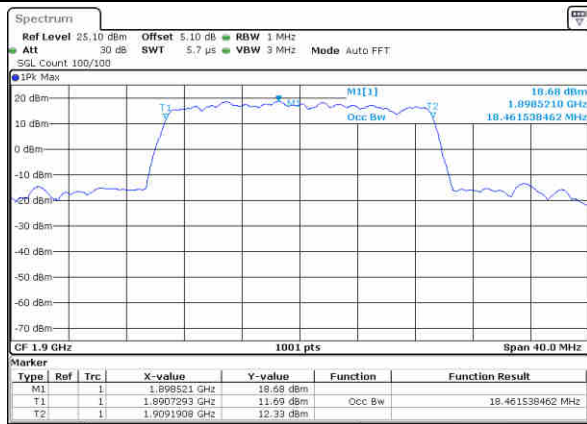
Middle Channel / 20MHz / QPSK



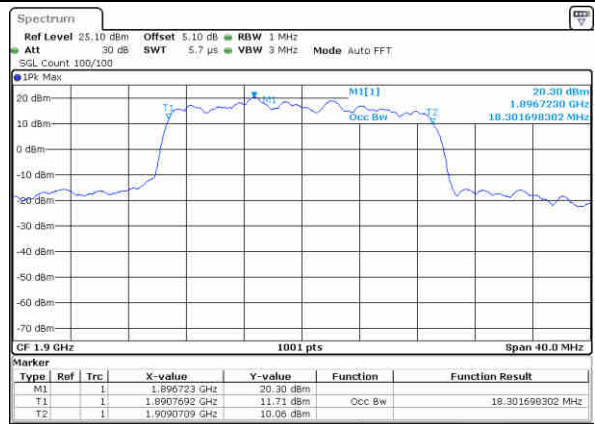
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



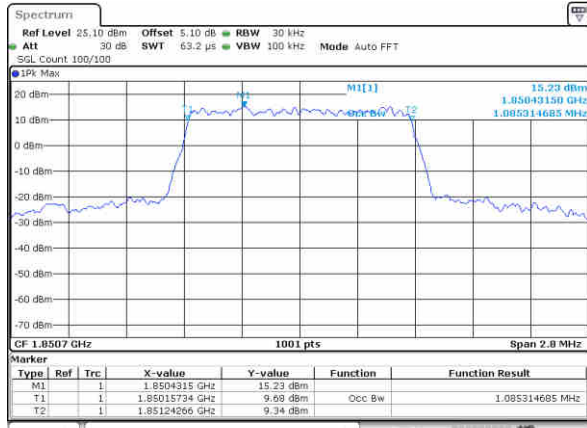
Highest Channel / 20MHz / 16QAM



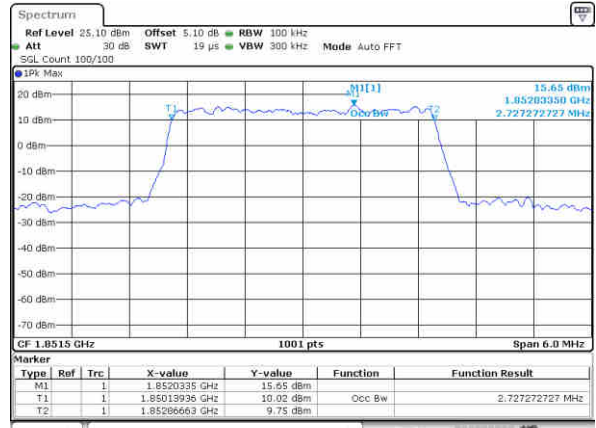


LTE Band 2

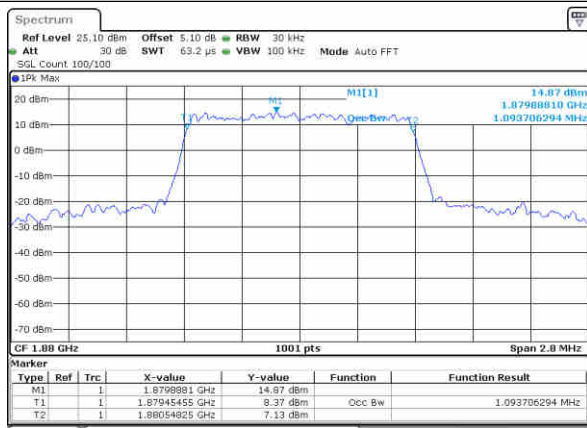
Lowest Channel / 1.4MHz / 64QAM



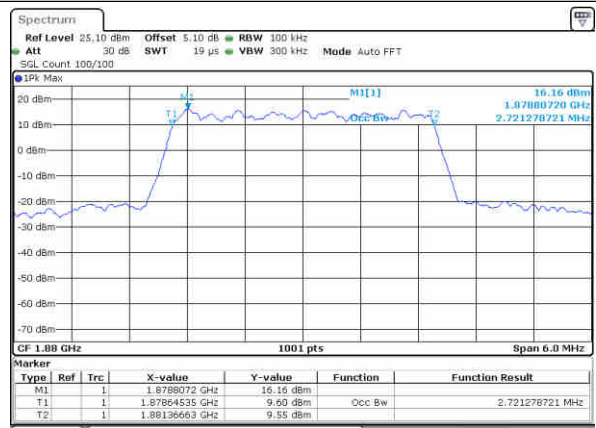
Lowest Channel / 3MHz / 64QAM



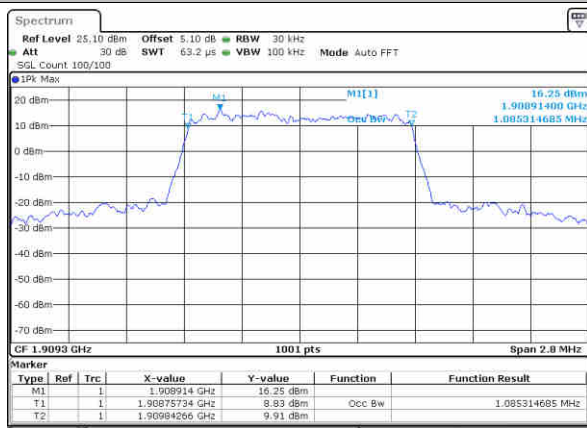
Middle Channel / 1.4MHz / 64QAM



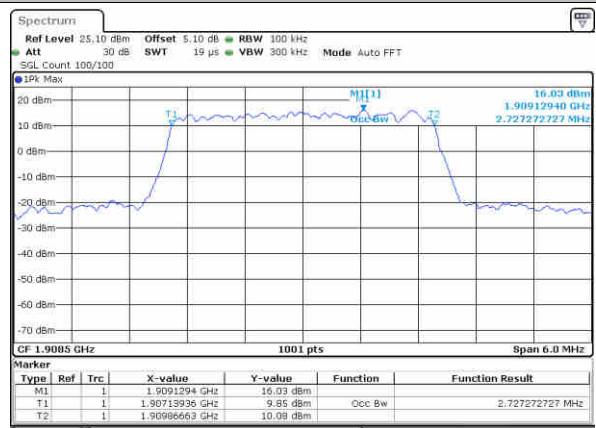
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



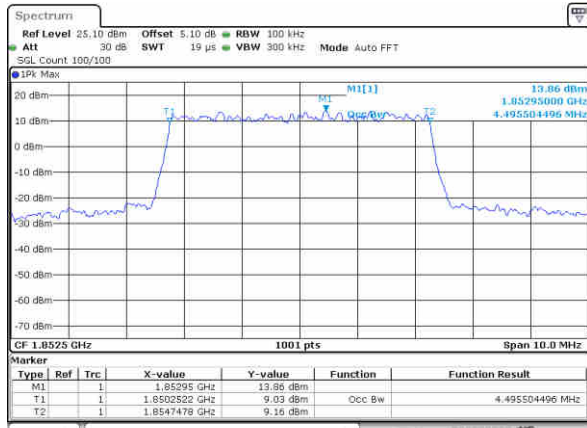
Highest Channel / 3MHz / 64QAM



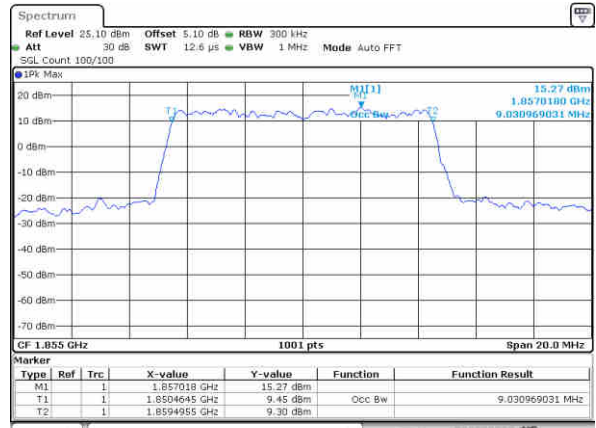


LTE Band 2

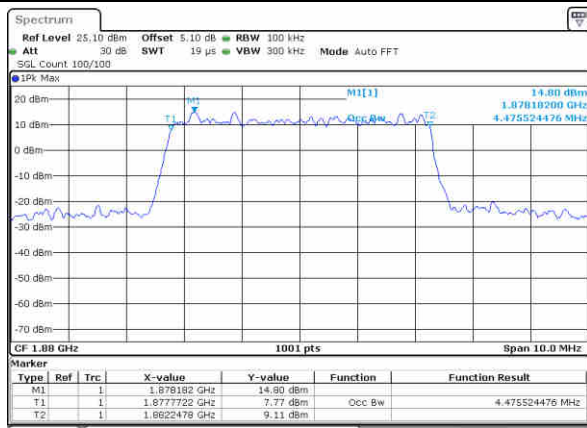
Lowest Channel / 5MHz / 64QAM



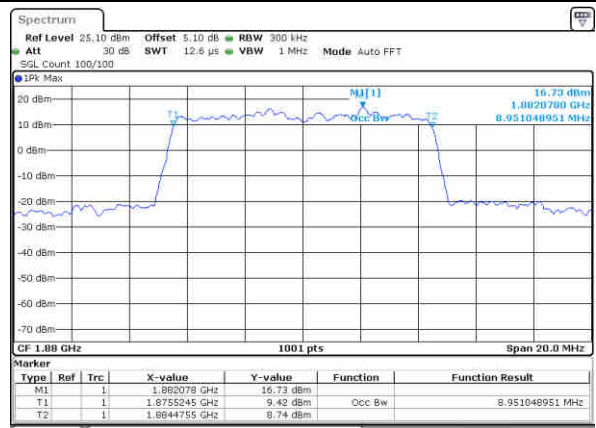
Lowest Channel / 10MHz / 64QAM



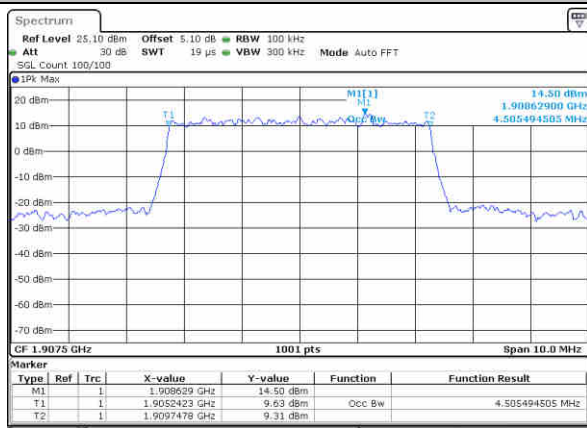
Middle Channel / 5MHz / 64QAM



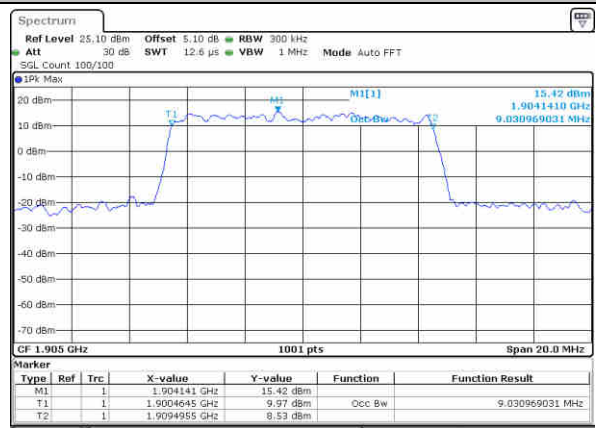
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



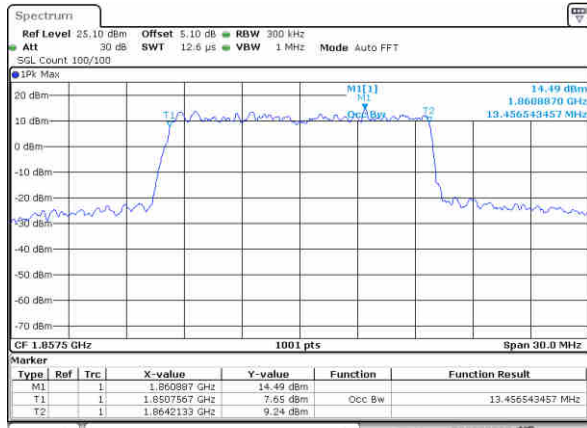
Highest Channel / 10MHz / 64QAM





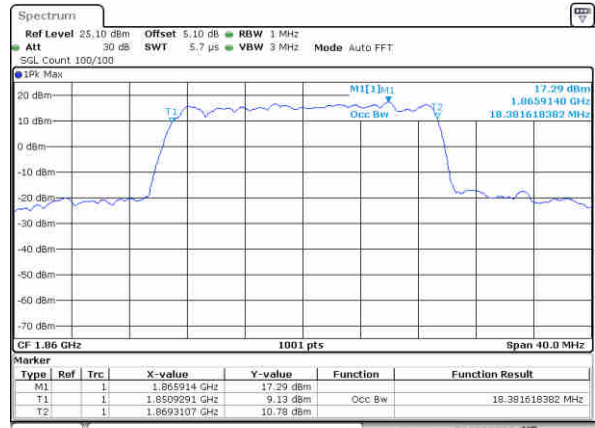
LTE Band 2

Lowest Channel / 15MHz / 64QAM



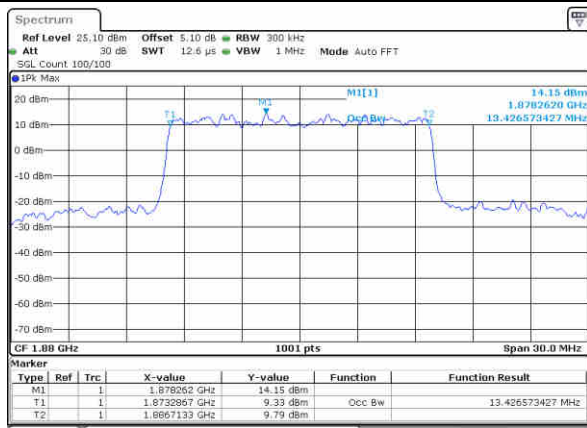
Date: 25-JUN-2020 09:55:40

Lowest Channel / 20MHz / 64QAM



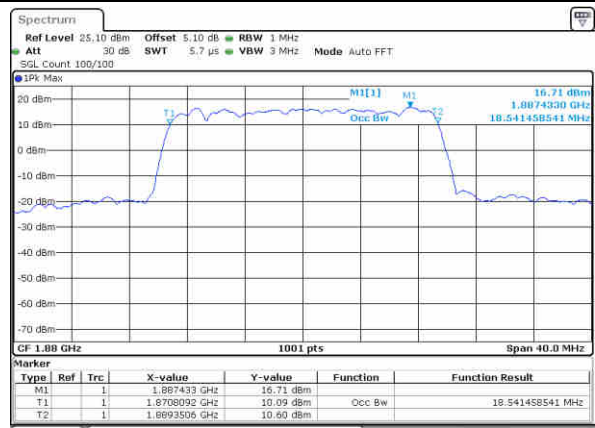
Date: 25-JUN-2020 09:56:11

Middle Channel / 15MHz / 64QAM



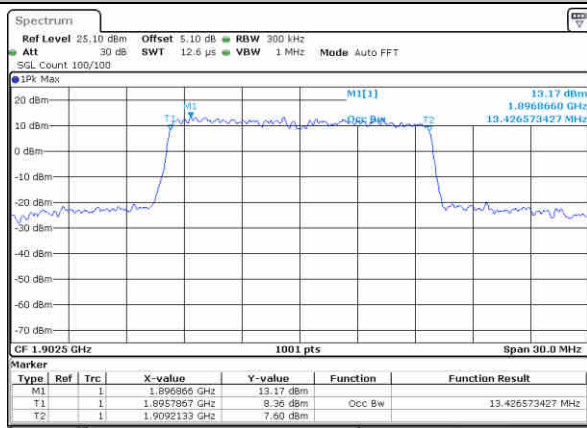
Date: 25-JUN-2020 09:55:40

Middle Channel / 20MHz / 64QAM



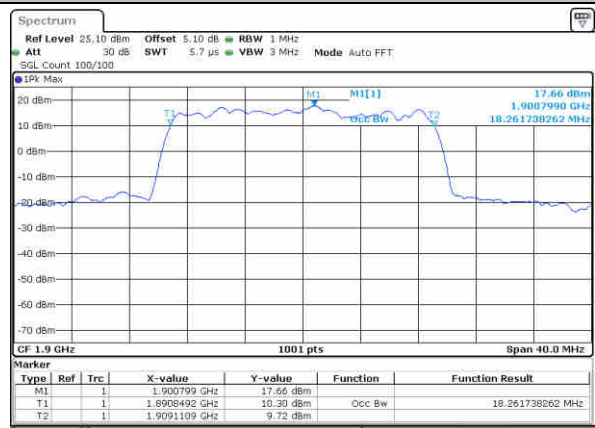
Date: 25-JUN-2020 09:56:11

Highest Channel / 15MHz / 64QAM



Date: 25-JUN-2020 09:56:00

Highest Channel / 20MHz / 64QAM



Date: 25-JUN-2020 09:56:31

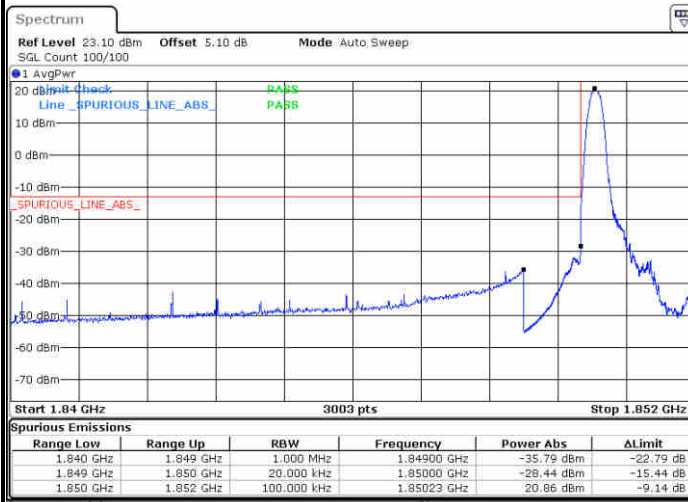


Conducted Band Edge

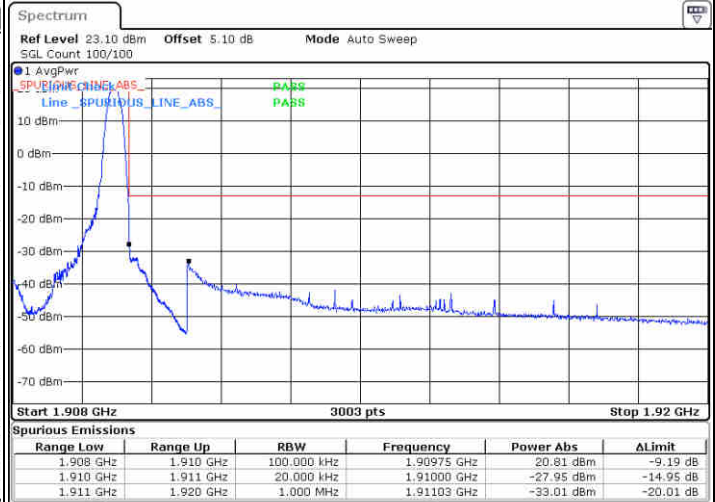


LTE Band 2 / 1.4MHz / QPSK

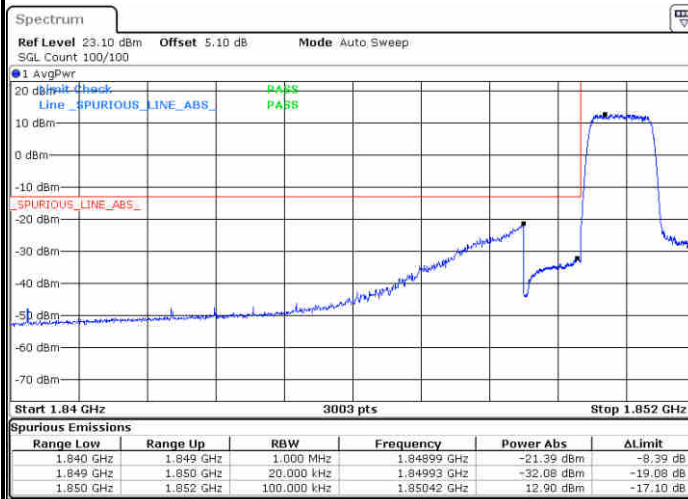
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

