FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2131-1, XT2131-4, XT2131-3, XT2131DL
FCC ID	:	IHDT56ZL1
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(H), 27(F), 27(N)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 29, 2021 and completely tested on Mar. 18, 2021. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG112907B	Rev. 01	Initial issue of report	Mar. 25, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt	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)	Conducted Band Edge Measurement (Band 2) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 71)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 2) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 71)	< 43+10log10(P[Watts])	PASS	-
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)	Radiated Spurious Emission (Band 2) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 71)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 20.16 dB at 1559.500 MHz

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

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago, IL60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago, IL60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2131-1, XT2131-4, XT2131-3, XT2131DL
FCC ID	IHDT56ZL1
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR / EDR / LE FM Receiver / GNSS
IMEI Code	Conducted: 356611280012398 Radiation: 356611280016803
HW Version	DVT
SW Version	RRE31.37
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 MHz LTE Band 71: 663 MHz ~ 698 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 MHz LTE Band 71: 617 MHz ~ 652 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**Top Antenna:** LTE Band 2 : 22.61 dBm LTE Band 5 : 23.20 dBm; Band 5B_CA: 23.54 dBm LTE Band 12 : 22.71 dBm LTE Band 13 : 23.91 dBm LTE Band 17 : 22.71 dBm LTE Band 25 : 22.48 dBm LTE Band 26 : 23.26 dBm LTE Band 71 : 23.20 dBm **Bottom Antenna:** LTE Band 2 : 22.74 dBm LTE Band 5 : 22.71 dBm; Band 5B_CA: 23.76 dBm LTE Band 12 : 22.93 dBm LTE Band 13 : 22.94 dBm LTE Band 17 : 22.91 dBm LTE Band 25 : 22.87 dBm LTE Band 26 : 22.54 dBm LTE Band 71 : 22.86 dBm
Antenna Gain	**Top Antenna:** LTE Band 2 : -6.00 dBi LTE Band 5 : -7.10 dBi LTE Band 12 : -7.00 dBi LTE Band 13 : -7.10 dBi LTE Band 17 : -7.20 dBi LTE Band 25 : -6.00 dBi LTE Band 26 : -7.10 dBi

	LTE Band 71 : -7.00 dBi **Bottom Antenna:** LTE Band 2 : -0.57 dBi LTE Band 5 : -4.00 dBi LTE Band 12 : -3.69 dBi LTE Band 13 : -4.20 dBi LTE Band 17 : -3.93 dBi LTE Band 25 : -0.57 dBi LTE Band 26 : -3.69 dBi LTE Band 71 : -4.10 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain, only the maximum ERP/EIRP is shown on the report

1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-101
AC Adapter 2(US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-101
Battery	**Brand Name**	Motorola (ATL)	**Model Name**	MD50
USB Cable 1	**Brand Name**	Motorola (Saibao)	**Model Name**	SC18C24367
USB Cable 2	**Brand Name**	Motorola (Luxshare)	**Model Name**	SC18C24368

1.7 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	-	0.1683	1M09W7D	-	0.1466
3	1851.5 ~ 1908.5	2M73G7D	-	0.1698	2M72W7D	-	0.1542
5	1852.5 ~ 1907.5	4M49G7D	-	0.1690	4M51W7D	-	0.1549
10	1855.0 ~ 1905.0	9M09G7D	0.0025	0.1690	9M07W7D	-	0.1416
15	1857.5 ~ 1902.5	13M4G7D	-	0.1690	13M6W7D	-	0.1496
20	1860.0 ~ 1900.0	17M9G7D	-	0.1698	17M9W7D	-	0.1469

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	-	0.1180
3	1851.5 ~ 1908.5	2M73W7D	-	0.1135
5	1852.5 ~ 1907.5	4M50W7D	-	0.1222
10	1855.0 ~ 1905.0	9M05W7D	-	0.1161
15	1857.5 ~ 1902.5	13M5W7D	-	0.1119
20	1860.0 ~ 1900.0	17M9W7D	-	0.1109

LTE Band 25		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M09G7D	-	0.1683	1M09W7D	-	0.1466
3	1851.5 ~ 1913.5	2M73G7D	-	0.1698	2M72W7D	-	0.1542
5	1852.5 ~ 1912.5	4M49G7D	-	0.1690	4M51W7D	-	0.1549
10	1855.0 ~ 1910.0	9M09G7D	0.0025	0.1690	9M07W7D	-	0.1416
15	1857.5 ~ 1907.5	13M4G7D	-	0.1690	13M6W7D	-	0.1496
20	1860.0 ~ 1905.0	17M9G7D	-	0.1698	17M9W7D	-	0.1469

LTE Band 25		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M09W7D	-	0.1180
3	1851.5 ~ 1913.5	2M73W7D	-	0.1135
5	1852.5 ~ 1912.5	4M50W7D	-	0.1222
10	1855.0 ~ 1910.0	9M05W7D	-	0.1161
15	1857.5 ~ 1907.5	13M5W7D	-	0.1119
20	1860.0 ~ 1905.0	17M9W7D	-	0.1109

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	1M10G7D	-	0.0463	1M10W7D	-	0.0400
3	825.5 ~ 847.5	2M73G7D	-	0.0465	2M74W7D	-	0.0416
5	826.5 ~ 846.5	4M51G7D	-	0.0465	4M51W7D	-	0.0400
10	829.0 ~ 844.0	9M09G7D	0.0046	0.0459	9M07W7D	-	0.0394

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	-	0.0311
3	825.5 ~ 847.5	2M72W7D	-	0.0323
5	826.5 ~ 846.5	4M55W7D	-	0.0313
10	829.0 ~ 844.0	9M07W7D	-	0.0306

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	1M09G7D	-	0.0506	1M09W7D	-	0.0453
3	700.5 ~ 714.5	2M72G7D	-	0.0498	2M73W7D	-	0.0450
5	701.5 ~ 713.5	4M51G7D	-	0.0508	4M50W7D	-	0.0456
10	704.0 ~ 711.0	9M03G7D	0.0058	0.0512	9M01W7D	-	0.0457

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	-	0.0352
3	700.5 ~ 714.5	2M72W7D	-	0.0356
5	701.5 ~ 713.5	4M51W7D	-	0.0357
10	704.0 ~ 711.0	9M03W7D	-	0.0355

LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M50G7D	-	0.0455	4M50W7D	-	0.0393
10	782.0	9M05G7D	0.0040	0.0456	9M01W7D	-	0.0385

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	-	0.0307
10	782.0	9M03W7D	-	0.0308

LTE Band 17		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M51G7D	-	0.0508	4M50W7D	-	0.0456
10	709.0 ~ 711.0	9M03G7D	0.0058	0.0512	9M01W7D	-	0.0457

LTE Band 17		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M51W7D	-	0.0357
10	709.0 ~ 711.0	9M03W7D	-	0.0355

LTE Band 26		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M10G7D	-	0.0463	1M10W7D	-	0.0400
3	825.5 ~ 847.5	2M73G7D	-	0.0465	2M74W7D	-	0.0416
5	826.5 ~ 846.5	4M51G7D	-	0.0465	4M51W7D	-	0.0400
10	829.0 ~ 844.0	9M09G7D	0.0046	0.0459	9M07W7D	-	0.0394
15	831.5 ~ 841.5	13M4G7D	-	0.0468	13M5W7D	-	0.0405
CH26765	821.5	13M5G7D	-	0.0468	13M4W7D	-	0.0395

LTE Band 26		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09W7D	-	0.0311
3	825.5 ~ 847.5	2M72W7D	-	0.0323
5	826.5 ~ 846.5	4M55W7D	-	0.0313
10	829.0 ~ 844.0	9M07W7D	-	0.0306
15	831.5 ~ 841.5	13M5W7D	-	0.0310
CH26765	821.5	13M4W7D	-	0.0310

LTE Band 71		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	665.5 ~ 695.5	4M50G7D	-	0.0453	4M49W7D	-	0.0379
10	668.0 ~ 693.0	9M01G7D	0.0075	0.0455	9M03W7D	-	0.0381
15	670.5 ~ 690.5	13M5G7D	-	0.0448	13M5W7D	-	0.0378
20	673.0 ~ 688.0	17M8G7D	-	0.0458	17M9W7D	-	0.0383

LTE Band 71		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	665.5 ~ 695.5	4M51W7D	-	0.0303
10	668.0 ~ 693.0	9M05W7D	-	0.0306
15	670.5 ~ 690.5	13M5W7D	-	0.0304
20	673.0 ~ 688.0	17M9W7D	-	0.0310

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)
3MHz+5MHz	7M59G7D	-	0.0574	7M56W7D	-	0.0569
5MHz+3MHz	7M61G7D	-	0.0574	7M59W7D	-	0.0577
5MHz+10MHz	13M9G7D	-	0.0505	13M9W7D	-	0.0448
10MHz+5MHz	13M9G7D	-	0.0498	13M9W7D	-	0.0405
10MHz+10MHz	18M7G7D	-	0.0465	18M9W7D	-	0.0376

LTE Band 5B_CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
3MHz+5MHz	7M58W7D	-	0.0560
5MHz+3MHz	7M59W7D	-	0.0565
5MHz+10MHz	13M9W7D	-	0.0415
10MHz+5MHz	14M0W7D	-	0.0393
10MHz+10MHz	18M8W7D	-	0.0377

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5
2. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
3. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.

1.8 Testing Location

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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	CN1256	421272

1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

1.10 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(H), 27(F), 27(N)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

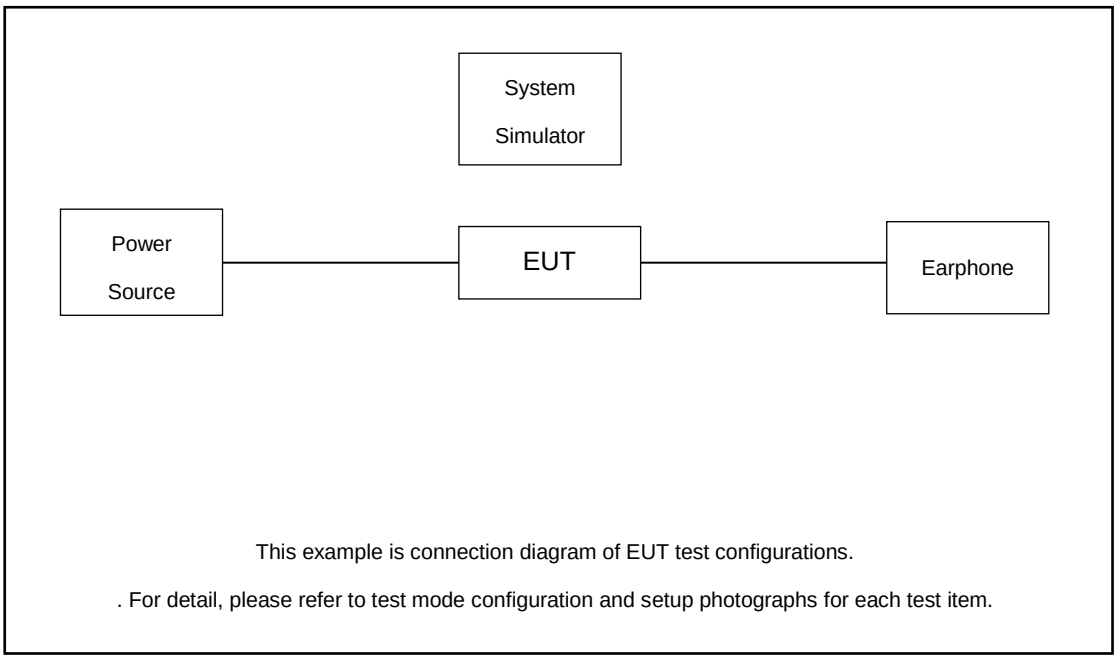
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	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
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	12				v	-	-	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v	v	v	v
	25						v	v	v	v	v		v	v	v	v
	26				v		-	v	v	v	v		v	v	v	v
	71	-	-				v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v	v	-	-	v	v	v			v	v	v	v
	25	v	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v	-	v	v	v			v	v	v	v
	71	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v		v	v		v

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	
	71	-	-		v			v					v		v	
E.R.P / E.I.R.P	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	12	Worst Case													v	
	13	Worst Case													v	
	25	Worst Case													v	
	26	Worst Case													v	
	71	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. All test items are based on engineering evaluation.															

Test Items	Band	Bandwidth (MHz)					Modulation				RB #			Test Channel		
		3+5	5+3	5+10	10+5	10+10	QPSK	16QAM	64QAM	256QAM	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
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. 4. All test items are based on engineering evaluation.															

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, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	N/A	N/A	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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

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

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.0 + 10 = 14.0 (dB)

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

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

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

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

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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

LTE Band 5B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
3 + 5	PCC	Channel	20416	20501	20586
		Frequency	825.6	834.1	842.6
	SCC	Channel	20455	20540	20625
		Frequency	829.5	838.0	846.5
5 + 3	PCC	Channel	20425	20510	20595
		Frequency	826.5	835.0	843.5
	SCC	Channel	20464	20549	20634
		Frequency	830.4	838.9	847.4
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

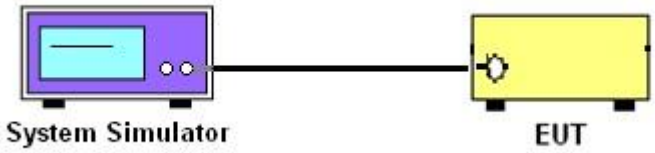
3 Conducted Test Items

3.1 Measuring Instruments

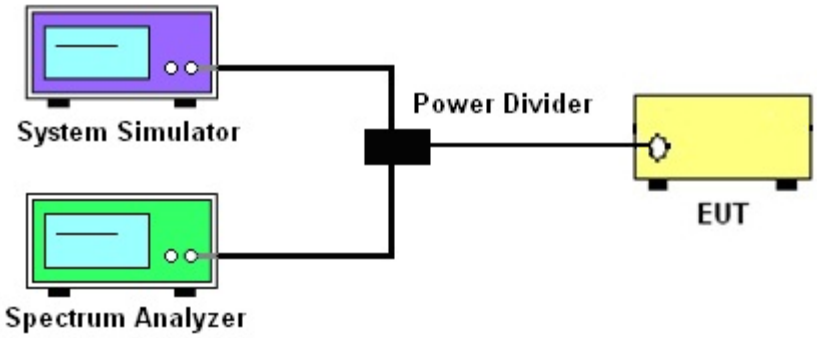
See list of measuring instruments of this test report.

3.2 Test Setup

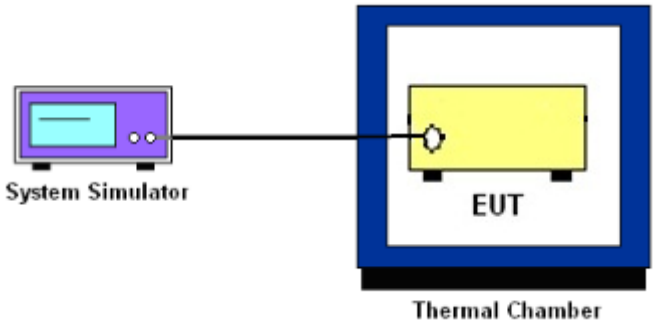
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17 and Band 71.

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

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[Watts]) dB below the transmitter power P(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[Watts]) dB below the transmitter power P(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[Watts]) dB below the transmitter power P(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 log10 p(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 + 10log10(P[Watts]) dB below the transmitter power P(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.

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 >= 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.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

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

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10^{th} 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. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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 ±0.00025% (±2.5ppm) 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±5°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.

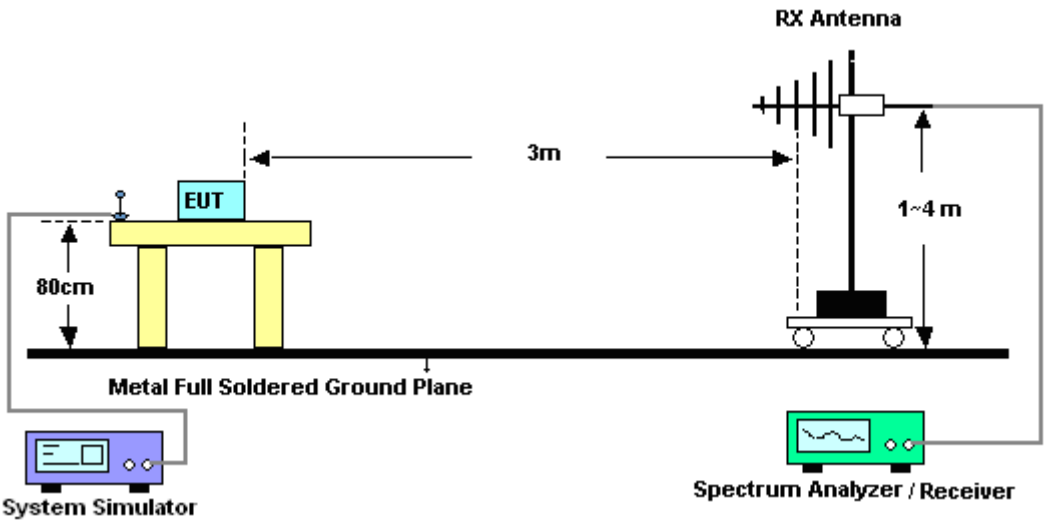
4 Radiated Test Items

4.1 Measuring Instruments

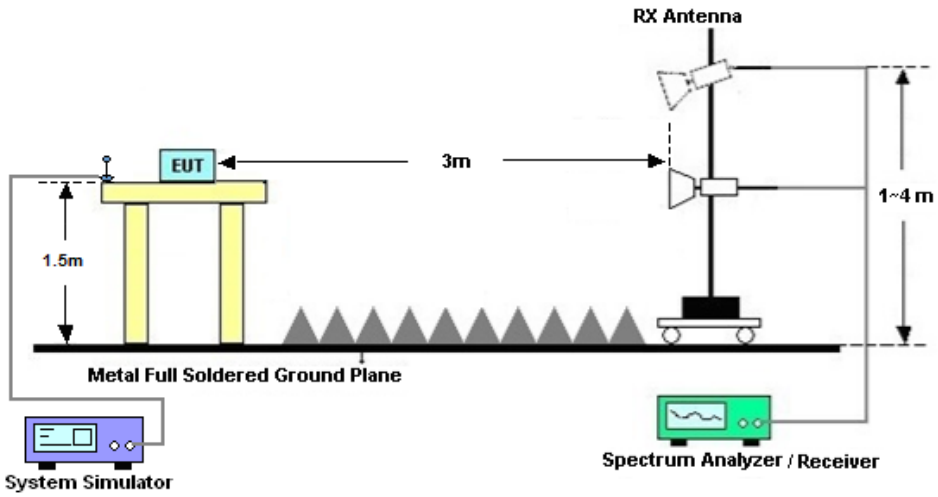
See list of measuring instruments of this test report.

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 LTE Band 13

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

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

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Feb. 11, 2021~ Mar. 18, 2021	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Feb. 11, 2021~ Mar. 18, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Feb. 27, 2021~ Mar. 16, 2021	Jul. 20, 2021	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Nov. 07, 2020	Feb. 27, 2021~ Mar. 16, 2021	Nov. 06, 2021	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	May 23, 2020	Feb. 27, 2021~ Mar. 16, 2021	May 22, 2021	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 26, 2020	Feb. 27, 2021~ Mar. 16, 2021	Jul. 25, 2021	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 16,2020	Feb. 27, 2021~ Mar. 16, 2021	Oct. 15, 2021	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 17, 2020	Feb. 27, 2021~ Mar. 16, 2021	Oct. 16, 2021	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Feb. 27, 2021~ Mar. 16, 2021	Jul. 20, 2021	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 17, 2020	Feb. 27, 2021~ Mar. 16, 2021	Oct. 16, 2021	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Feb. 27, 2021~ Mar. 16, 2021	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 27, 2021~ Mar. 16, 2021	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 27, 2021~ Mar. 16, 2021	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.9dB**

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	22.74	22.57	22.45
20	QPSK	1	49	22.63	22.47	22.37
20	QPSK	1	99	22.49	22.38	22.35
20	QPSK	50	0	21.82	21.68	21.56
20	QPSK	50	24	21.76	21.63	21.55
20	QPSK	50	50	21.68	21.56	21.49
20	QPSK	100	0	21.75	21.63	21.54
20	16QAM	1	0	22.03	21.89	21.78
20	16QAM	1	49	21.92	21.84	21.64
20	16QAM	1	99	21.81	21.72	21.59
20	16QAM	50	0	20.80	20.69	20.59
20	16QAM	50	24	20.76	20.64	20.56
20	16QAM	50	50	20.67	20.57	20.48
20	16QAM	100	0	20.76	20.61	20.55
20	64QAM	1	0	20.95	20.81	20.78
20	64QAM	1	49	20.79	20.65	20.57
20	64QAM	1	99	20.72	20.64	20.60
20	64QAM	50	0	19.80	19.67	19.60
20	64QAM	50	24	19.75	19.64	19.53
20	64QAM	50	50	19.67	19.59	19.50
20	64QAM	100	0	19.74	19.59	19.57
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.71	22.58	22.44
15	QPSK	1	37	22.65	22.51	22.45
15	QPSK	1	74	22.56	22.44	22.38
15	QPSK	36	0	21.82	21.68	21.55
15	QPSK	36	20	21.78	21.60	21.50
15	QPSK	36	39	21.68	21.60	21.49
15	QPSK	75	0	21.75	21.62	21.51
15	16QAM	1	0	22.10	21.89	21.74
15	16QAM	1	37	21.84	21.84	21.66
15	16QAM	1	74	21.81	21.69	21.67
15	16QAM	36	0	20.78	20.69	20.56
15	16QAM	36	20	20.76	20.61	20.54
15	16QAM	36	39	20.73	20.56	20.49
15	16QAM	75	0	20.77	20.64	20.51
15	64QAM	1	0	21.03	20.78	20.62

15	64QAM	1	37	20.87	20.66	20.55
15	64QAM	1	74	20.79	20.66	20.57
15	64QAM	36	0	19.86	19.69	19.55
15	64QAM	36	20	19.78	19.64	19.53
15	64QAM	36	39	19.70	19.57	19.55
15	64QAM	75	0	19.75	19.64	19.51
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.71	22.66	22.46
10	QPSK	1	25	22.65	22.53	22.52
10	QPSK	1	49	22.54	22.55	22.42
10	QPSK	25	0	21.87	21.76	21.64
10	QPSK	25	12	21.86	21.70	21.58
10	QPSK	25	25	21.75	21.65	21.54
10	QPSK	50	0	21.81	21.69	21.57
10	16QAM	1	0	22.10	21.89	21.83
10	16QAM	1	25	22.00	21.86	21.65
10	16QAM	1	49	21.89	21.77	21.63
10	16QAM	25	0	20.93	20.81	20.64
10	16QAM	25	12	20.86	20.78	20.65
10	16QAM	25	25	20.78	20.65	20.52
10	16QAM	50	0	20.83	20.71	20.62
10	64QAM	1	0	20.93	20.86	20.66
10	64QAM	1	25	20.82	20.80	20.50
10	64QAM	1	49	20.73	20.75	20.61
10	64QAM	25	0	19.91	19.78	19.68
10	64QAM	25	12	19.88	19.74	19.64
10	64QAM	25	25	19.80	19.69	19.57
10	64QAM	50	0	19.82	19.72	19.62
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.71	22.62	22.42
5	QPSK	1	12	22.69	22.59	22.47
5	QPSK	1	24	22.67	22.49	22.33
5	QPSK	12	0	21.89	21.69	21.60
5	QPSK	12	7	21.89	21.67	21.59
5	QPSK	12	13	21.73	21.61	21.49
5	QPSK	25	0	21.82	21.66	21.55
5	16QAM	1	0	22.12	21.91	21.79
5	16QAM	1	12	22.00	21.94	21.78
5	16QAM	1	24	21.97	21.86	21.67
5	16QAM	12	0	20.92	20.75	20.62
5	16QAM	12	7	20.86	20.70	20.58
5	16QAM	12	13	20.78	20.64	20.52
5	16QAM	25	0	20.89	20.71	20.57
5	64QAM	1	0	21.09	20.84	20.83
5	64QAM	1	12	21.02	20.85	20.75
5	64QAM	1	24	20.93	20.74	20.69
5	64QAM	12	0	19.97	19.79	19.68
5	64QAM	12	7	19.90	19.76	19.65

5	64QAM	12	13	19.80	19.65	19.53
5	64QAM	25	0	19.85	19.68	19.56
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.73	22.63	22.48
3	QPSK	1	8	22.71	22.57	22.42
3	QPSK	1	14	22.61	22.45	22.33
3	QPSK	8	0	21.89	21.68	21.59
3	QPSK	8	4	21.81	21.69	21.56
3	QPSK	8	7	21.75	21.60	21.48
3	QPSK	15	0	21.81	21.65	21.56
3	16QAM	1	0	22.19	22.14	22.04
3	16QAM	1	8	22.14	21.93	21.98
3	16QAM	1	14	21.97	21.82	21.77
3	16QAM	8	0	20.94	20.75	20.67
3	16QAM	8	4	20.88	20.70	20.60
3	16QAM	8	7	20.81	20.66	20.54
3	16QAM	15	0	20.86	20.68	20.57
3	64QAM	1	0	21.06	20.99	20.87
3	64QAM	1	8	20.96	20.93	20.79
3	64QAM	1	14	20.83	20.71	20.63
3	64QAM	8	0	19.93	19.76	19.60
3	64QAM	8	4	19.89	19.73	19.59
3	64QAM	8	7	19.80	19.63	19.53
3	64QAM	15	0	19.88	19.72	19.58
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.72	22.57	22.44
1.4	QPSK	1	3	22.67	22.57	22.44
1.4	QPSK	1	5	22.68	22.47	22.35
1.4	QPSK	3	0	22.68	22.64	22.45
1.4	QPSK	3	1	22.71	22.64	22.50
1.4	QPSK	3	3	22.66	22.55	22.41
1.4	QPSK	6	0	21.85	21.68	21.53
1.4	16QAM	1	0	22.13	21.93	21.77
1.4	16QAM	1	3	22.10	21.94	21.76
1.4	16QAM	1	5	22.00	21.86	21.72
1.4	16QAM	3	0	21.85	21.70	21.57
1.4	16QAM	3	1	21.89	21.70	21.65
1.4	16QAM	3	3	21.77	21.58	21.53
1.4	16QAM	6	0	20.90	20.73	20.59
1.4	64QAM	1	0	20.94	20.82	20.74
1.4	64QAM	1	3	20.96	20.72	20.74
1.4	64QAM	1	5	20.94	20.76	20.63
1.4	64QAM	3	0	21.00	20.88	20.78
1.4	64QAM	3	1	21.05	20.88	20.72
1.4	64QAM	3	3	20.90	20.77	20.64
1.4	64QAM	6	0	19.90	19.68	19.57

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	23.16	23.00	23.06
10	QPSK	1	25	23.20	22.94	22.95
10	QPSK	1	49	23.10	23.01	23.08
10	QPSK	25	0	22.23	22.12	22.20
10	QPSK	25	12	22.34	22.11	22.15
10	QPSK	25	25	22.23	22.10	22.13
10	QPSK	50	0	22.23	22.11	22.18
10	16QAM	1	0	22.58	22.44	22.49
10	16QAM	1	25	22.13	22.09	22.46
10	16QAM	1	49	22.34	22.21	22.26
10	16QAM	25	0	21.38	21.12	21.05
10	16QAM	25	12	21.41	21.21	21.02
10	16QAM	25	25	21.39	21.18	21.01
10	16QAM	50	0	21.24	21.18	21.12
10	64QAM	1	0	21.25	21.34	21.27
10	64QAM	1	25	21.46	21.22	21.26
10	64QAM	1	49	21.20	21.31	21.04
10	64QAM	25	0	20.35	20.21	20.10
10	64QAM	25	12	20.37	20.21	20.12
10	64QAM	25	25	20.32	20.22	20.00
10	64QAM	50	0	20.34	20.18	20.03
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.16	23.15	22.94
5	QPSK	1	12	23.02	23.00	22.86
5	QPSK	1	24	23.12	23.13	22.82
5	QPSK	12	0	22.38	22.11	21.93
5	QPSK	12	7	22.38	22.12	22.01
5	QPSK	12	13	22.37	22.19	21.88
5	QPSK	25	0	22.27	22.18	21.92
5	16QAM	1	0	22.32	22.57	22.37
5	16QAM	1	12	22.21	22.65	22.43
5	16QAM	1	24	22.43	22.64	22.36
5	16QAM	12	0	21.37	21.18	20.89
5	16QAM	12	7	21.32	21.16	20.98
5	16QAM	12	13	21.35	21.24	20.98
5	16QAM	25	0	21.31	21.21	20.99
5	64QAM	1	0	21.57	21.51	21.12
5	64QAM	1	12	21.56	21.20	21.15
5	64QAM	1	24	21.53	21.48	21.27
5	64QAM	12	0	20.36	20.26	19.99
5	64QAM	12	7	20.34	20.22	20.04
5	64QAM	12	13	20.38	20.22	20.02
5	64QAM	25	0	20.41	20.21	19.97

Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.17	23.03	22.93
3	QPSK	1	8	23.02	23.08	22.88
3	QPSK	1	14	23.11	23.05	22.79
3	QPSK	8	0	22.39	22.15	21.96
3	QPSK	8	4	22.41	22.19	21.95
3	QPSK	8	7	22.32	22.15	21.92
3	QPSK	15	0	22.29	22.07	21.93
3	16QAM	1	0	22.81	22.48	22.43
3	16QAM	1	8	22.79	22.64	22.46
3	16QAM	1	14	22.71	22.62	22.39
3	16QAM	8	0	21.33	21.20	21.05
3	16QAM	8	4	21.26	21.25	21.06
3	16QAM	8	7	21.29	21.30	21.00
3	16QAM	15	0	21.37	21.04	20.93
3	64QAM	1	0	21.43	21.36	21.12
3	64QAM	1	8	21.43	21.47	21.06
3	64QAM	1	14	21.34	21.29	21.12
3	64QAM	8	0	20.36	20.17	19.97
3	64QAM	8	4	20.38	20.27	20.06
3	64QAM	8	7	20.38	20.17	19.93
3	64QAM	15	0	20.33	20.25	19.99
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.01	23.01	23.01
1.4	QPSK	1	3	23.09	22.97	22.97
1.4	QPSK	1	5	22.99	22.99	22.99
1.4	QPSK	3	0	23.07	23.01	23.01
1.4	QPSK	3	1	23.07	23.05	23.05
1.4	QPSK	3	3	23.11	23.01	23.01
1.4	QPSK	6	0	22.30	22.06	22.06
1.4	16QAM	1	0	22.65	22.22	22.22
1.4	16QAM	1	3	22.67	22.40	22.40
1.4	16QAM	1	5	22.63	22.27	22.27
1.4	16QAM	3	0	22.19	22.12	22.12
1.4	16QAM	3	1	22.19	22.16	22.16
1.4	16QAM	3	3	22.12	22.13	22.13
1.4	16QAM	6	0	21.27	21.10	21.10
1.4	64QAM	1	0	21.08	21.21	21.21
1.4	64QAM	1	3	21.12	21.10	21.10
1.4	64QAM	1	5	20.98	20.90	20.90
1.4	64QAM	3	0	21.42	21.29	21.29
1.4	64QAM	3	1	21.55	21.35	21.35
1.4	64QAM	3	3	21.50	21.21	21.25
1.4	64QAM	6	0	20.29	20.01	20.01

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	22.62	22.64	22.58
10	QPSK	1	25	22.63	22.66	22.61
10	QPSK	1	49	22.70	22.71	22.65
10	QPSK	25	0	21.85	21.86	21.82
10	QPSK	25	12	21.95	21.97	21.93
10	QPSK	25	25	21.95	21.99	21.90
10	QPSK	50	0	21.93	21.98	21.87
10	16QAM	1	0	22.11	22.11	22.33
10	16QAM	1	25	22.10	22.08	22.25
10	16QAM	1	49	22.16	22.15	22.24
10	16QAM	25	0	20.87	20.88	20.90
10	16QAM	25	12	20.98	20.95	21.01
10	16QAM	25	25	20.97	21.02	20.97
10	16QAM	50	0	20.95	20.91	20.98
10	64QAM	1	0	20.99	21.04	21.01
10	64QAM	1	25	21.00	21.04	20.99
10	64QAM	1	49	21.03	21.13	21.04
10	64QAM	25	0	19.90	19.93	19.94
10	64QAM	25	12	20.01	19.94	20.04
10	64QAM	25	25	20.02	20.01	20.03
10	64QAM	50	0	19.98	19.90	19.97
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.54	22.53	22.58
5	QPSK	1	12	22.58	22.62	22.61
5	QPSK	1	24	22.64	22.66	22.60
5	QPSK	12	0	21.88	21.90	21.84
5	QPSK	12	7	21.92	21.90	21.89
5	QPSK	12	13	21.89	21.93	21.93
5	QPSK	25	0	21.89	21.86	21.83
5	16QAM	1	0	22.06	22.10	22.12
5	16QAM	1	12	22.09	22.19	22.11
5	16QAM	1	24	22.18	22.21	22.13
5	16QAM	12	0	20.94	20.90	20.89
5	16QAM	12	7	20.91	20.90	20.89
5	16QAM	12	13	20.89	20.93	20.93
5	16QAM	25	0	20.93	20.92	20.88
5	64QAM	1	0	20.97	20.99	21.04
5	64QAM	1	12	21.05	21.16	21.05
5	64QAM	1	24	21.10	21.11	21.06
5	64QAM	12	0	19.97	19.94	19.90
5	64QAM	12	7	20.00	19.95	19.94
5	64QAM	12	13	19.95	19.97	19.92
5	64QAM	25	0	19.91	19.92	19.89

Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.65	22.60	22.56
3	QPSK	1	8	22.64	22.68	22.64
3	QPSK	1	14	22.58	22.61	22.58
3	QPSK	8	0	21.92	21.87	21.85
3	QPSK	8	4	21.90	21.87	21.91
3	QPSK	8	7	21.88	21.92	21.87
3	QPSK	15	0	21.88	21.86	21.83
3	16QAM	1	0	22.14	22.13	22.06
3	16QAM	1	8	22.17	22.23	22.11
3	16QAM	1	14	22.11	22.13	22.06
3	16QAM	8	0	20.97	20.95	20.88
3	16QAM	8	4	20.97	20.96	20.96
3	16QAM	8	7	20.89	20.95	20.87
3	16QAM	15	0	20.91	20.88	20.84
3	64QAM	1	0	21.04	21.08	20.99
3	64QAM	1	8	21.12	21.20	21.04
3	64QAM	1	14	21.07	21.07	21.02
3	64QAM	8	0	19.97	19.94	19.91
3	64QAM	8	4	19.98	19.94	19.97
3	64QAM	8	7	19.94	19.94	19.90
3	64QAM	15	0	19.95	19.90	19.87
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.52	22.53	22.54
1.4	QPSK	1	3	22.57	22.61	22.52
1.4	QPSK	1	5	22.47	22.51	22.45
1.4	QPSK	3	0	22.57	22.54	22.55
1.4	QPSK	3	1	22.62	22.59	22.56
1.4	QPSK	3	3	22.57	22.57	22.54
1.4	QPSK	6	0	21.83	21.78	21.78
1.4	16QAM	1	0	22.09	22.02	22.04
1.4	16QAM	1	3	22.07	22.11	22.05
1.4	16QAM	1	5	22.02	22.04	21.96
1.4	16QAM	3	0	21.84	21.83	21.77
1.4	16QAM	3	1	21.88	21.85	21.80
1.4	16QAM	3	3	21.79	21.83	21.73
1.4	16QAM	6	0	20.86	20.87	20.85
1.4	64QAM	1	0	20.95	20.97	20.95
1.4	64QAM	1	3	21.02	21.01	20.97
1.4	64QAM	1	5	20.93	20.94	20.86
1.4	64QAM	3	0	20.99	20.96	20.99
1.4	64QAM	3	1	21.07	21.04	20.99
1.4	64QAM	3	3	20.97	21.01	20.91
1.4	64QAM	6	0	19.85	19.83	19.84

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		23.42	
10	QPSK	1	25		23.67	
10	QPSK	1	49		23.91	
10	QPSK	25	0		22.52	
10	QPSK	25	12		22.71	
10	QPSK	25	25		22.87	
10	QPSK	50	0		22.68	
10	16QAM	1	0		22.62	
10	16QAM	1	25		22.88	
10	16QAM	1	49		22.91	
10	16QAM	25	0		21.61	
10	16QAM	25	12		21.79	
10	16QAM	25	25		21.89	
10	16QAM	50	0		21.71	
10	64QAM	1	0		21.52	
10	64QAM	1	25		21.95	
10	64QAM	1	49		21.99	
10	64QAM	25	0		20.58	
10	64QAM	25	12		20.76	
10	64QAM	25	25		20.91	
10	64QAM	50	0		20.82	
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.41	23.45	23.65
5	QPSK	1	12	23.47	23.75	23.77
5	QPSK	1	24	23.72	23.85	23.87
5	QPSK	12	0	22.32	22.50	22.65
5	QPSK	12	7	22.47	22.64	22.75
5	QPSK	12	13	22.58	22.72	22.80
5	QPSK	25	0	22.55	22.56	22.72
5	16QAM	1	0	22.53	22.64	22.94
5	16QAM	1	12	22.66	22.80	22.94
5	16QAM	1	24	22.94	22.98	22.92
5	16QAM	12	0	21.35	21.52	21.65
5	16QAM	12	7	21.52	21.64	21.77
5	16QAM	12	13	21.59	21.75	21.79
5	16QAM	25	0	21.46	21.61	21.73
5	64QAM	1	0	21.41	21.54	21.68
5	64QAM	1	12	21.61	21.72	21.87
5	64QAM	1	24	21.63	21.81	21.81
5	64QAM	12	0	20.43	20.54	20.66
5	64QAM	12	7	20.60	20.68	20.83
5	64QAM	12	13	20.63	20.82	20.91
5	64QAM	25	0	20.56	20.64	20.72

LTE Band 17:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.71	22.60	22.68
10	QPSK	1	25	22.68	22.59	22.66
10	QPSK	1	49	22.69	22.61	22.63
10	QPSK	25	0	21.90	21.83	21.87
10	QPSK	25	12	22.04	21.92	22.00
10	QPSK	25	25	21.97	21.89	21.92
10	QPSK	50	0	21.97	21.88	21.96
10	16QAM	1	0	22.21	22.06	22.13
10	16QAM	1	25	22.16	22.10	22.01
10	16QAM	1	49	22.19	22.14	22.07
10	16QAM	25	0	20.90	20.93	20.93
10	16QAM	25	12	21.07	20.96	21.03
10	16QAM	25	25	20.99	20.98	20.94
10	16QAM	50	0	20.97	20.89	20.89
10	64QAM	1	0	21.01	20.99	21.06
10	64QAM	1	25	20.99	20.96	20.95
10	64QAM	1	49	21.15	21.06	21.10
10	64QAM	25	0	19.95	19.97	19.96
10	64QAM	25	12	20.08	19.97	20.04
10	64QAM	25	25	20.00	19.97	19.95
10	64QAM	50	0	19.98	19.90	19.83
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.70	22.69	22.65
5	QPSK	1	12	22.63	22.62	22.57
5	QPSK	1	24	22.63	22.61	22.55
5	QPSK	12	0	22.00	21.96	21.87
5	QPSK	12	7	22.01	21.92	21.88
5	QPSK	12	13	21.90	21.90	21.83
5	QPSK	25	0	22.00	21.88	21.83
5	16QAM	1	0	22.19	22.20	22.13
5	16QAM	1	12	22.16	22.15	22.11
5	16QAM	1	24	22.16	22.13	22.11
5	16QAM	12	0	21.05	20.95	20.94
5	16QAM	12	7	21.02	20.92	20.88
5	16QAM	12	13	20.93	20.94	20.88
5	16QAM	25	0	20.99	20.93	20.89
5	64QAM	1	0	21.18	21.11	21.10
5	64QAM	1	12	21.10	21.05	21.07
5	64QAM	1	24	21.05	21.05	20.94
5	64QAM	12	0	20.10	20.00	19.94
5	64QAM	12	7	20.05	19.97	19.92
5	64QAM	12	13	20.02	19.93	19.91
5	64QAM	25	0	20.03	19.93	19.89

LTE Band 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	QPSK	1	0	22.87	22.75	22.56
20	QPSK	1	49	22.73	22.62	22.46
20	QPSK	1	99	22.65	22.56	22.44
20	QPSK	50	0	21.94	21.85	21.70
20	QPSK	50	24	21.91	21.83	21.67
20	QPSK	50	50	21.80	21.77	21.63
20	QPSK	100	0	21.81	21.73	21.70
20	16QAM	1	0	22.24	22.02	21.79
20	16QAM	1	49	22.02	22.01	21.82
20	16QAM	1	99	21.89	21.83	21.80
20	16QAM	50	0	20.93	20.88	20.70
20	16QAM	50	24	20.92	20.89	20.69
20	16QAM	50	50	20.76	20.80	20.66
20	16QAM	100	0	20.80	20.83	20.69
20	64QAM	1	0	21.02	20.99	20.78
20	64QAM	1	49	20.95	20.92	20.71
20	64QAM	1	99	20.78	20.80	20.66
20	64QAM	50	0	19.96	19.90	19.72
20	64QAM	50	24	19.94	19.87	19.71
20	64QAM	50	50	19.78	19.82	19.67
20	64QAM	100	0	19.82	19.85	19.71
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	22.81	22.70	22.54
15	QPSK	1	37	22.85	22.62	22.42
15	QPSK	1	74	22.84	22.64	22.43
15	QPSK	36	0	21.94	21.79	21.63
15	QPSK	36	20	21.93	21.80	21.63
15	QPSK	36	39	21.92	21.71	21.64
15	QPSK	75	0	21.91	21.76	21.70
15	16QAM	1	0	21.87	22.32	22.01
15	16QAM	1	37	21.89	22.16	22.01
15	16QAM	1	74	21.96	22.23	22.01
15	16QAM	36	0	20.90	20.72	20.65
15	16QAM	36	20	20.92	20.80	20.69
15	16QAM	36	39	20.94	20.84	20.58
15	16QAM	75	0	20.83	20.79	20.65
15	64QAM	1	0	20.94	21.06	21.05
15	64QAM	1	37	20.90	20.94	20.67
15	64QAM	1	74	20.93	20.93	20.58
15	64QAM	36	0	19.90	19.94	19.63
15	64QAM	36	20	19.99	19.86	19.64
15	64QAM	36	39	19.94	19.76	19.65
15	64QAM	75	0	19.92	19.78	19.66

Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	22.79	22.82	22.71
10	QPSK	1	25	22.85	22.76	22.65
10	QPSK	1	49	22.82	22.79	22.62
10	QPSK	25	0	22.12	22.02	21.76
10	QPSK	25	12	22.03	21.96	21.74
10	QPSK	25	25	21.97	21.90	21.73
10	QPSK	50	0	22.08	21.96	21.70
10	16QAM	1	0	21.96	22.08	21.83
10	16QAM	1	25	21.71	21.79	21.67
10	16QAM	1	49	21.82	21.89	21.79
10	16QAM	25	0	21.18	20.90	20.82
10	16QAM	25	12	21.17	21.03	20.73
10	16QAM	25	25	21.09	20.98	20.89
10	16QAM	50	0	21.06	20.86	20.90
10	64QAM	1	0	21.14	20.99	20.75
10	64QAM	1	25	21.16	21.12	20.79
10	64QAM	1	49	21.22	20.85	20.76
10	64QAM	25	0	20.07	20.00	19.96
10	64QAM	25	12	20.03	19.94	19.67
10	64QAM	25	25	19.99	19.86	19.77
10	64QAM	50	0	20.09	20.02	19.90
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	22.82	22.81	22.66
5	QPSK	1	12	22.80	22.80	22.66
5	QPSK	1	24	22.85	22.70	22.65
5	QPSK	12	0	22.08	21.98	21.73
5	QPSK	12	7	22.03	22.01	21.71
5	QPSK	12	13	22.06	21.98	21.74
5	QPSK	25	0	22.08	21.97	21.70
5	16QAM	1	0	22.40	22.26	22.01
5	16QAM	1	12	22.31	22.44	22.22
5	16QAM	1	24	22.47	22.42	22.22
5	16QAM	12	0	21.05	21.04	20.86
5	16QAM	12	7	21.05	20.98	20.77
5	16QAM	12	13	21.06	20.91	20.65
5	16QAM	25	0	21.07	21.00	20.64
5	64QAM	1	0	21.44	20.96	21.02
5	64QAM	1	12	21.32	21.02	20.95
5	64QAM	1	24	21.35	21.19	21.23
5	64QAM	12	0	20.09	19.99	19.79
5	64QAM	12	7	20.12	19.98	19.84
5	64QAM	12	13	20.10	20.05	19.89
5	64QAM	25	0	20.08	20.02	19.82
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	22.81	22.77	22.53
3	QPSK	1	8	22.77	22.79	22.51

3	QPSK	1	14	22.73	22.87	22.61
3	QPSK	8	0	22.05	21.96	21.72
3	QPSK	8	4	22.06	21.96	21.68
3	QPSK	8	7	21.99	21.88	21.69
3	QPSK	15	0	21.98	21.96	21.73
3	16QAM	1	0	22.45	22.15	22.03
3	16QAM	1	8	22.28	22.13	22.00
3	16QAM	1	14	22.38	22.10	22.03
3	16QAM	8	0	21.08	21.02	20.66
3	16QAM	8	4	21.03	20.88	20.64
3	16QAM	8	7	21.03	20.86	20.58
3	16QAM	15	0	21.08	20.93	20.77
3	64QAM	1	0	20.80	20.97	20.70
3	64QAM	1	8	20.95	21.10	21.12
3	64QAM	1	14	20.87	20.98	21.06
3	64QAM	8	0	20.00	19.97	19.79
3	64QAM	8	4	20.05	19.89	19.78
3	64QAM	8	7	20.01	19.92	19.78
3	64QAM	15	0	20.11	19.84	19.73
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	22.70	22.79	22.53
1.4	QPSK	1	3	22.74	22.78	22.44
1.4	QPSK	1	5	22.76	22.73	22.46
1.4	QPSK	3	0	22.80	22.72	22.52
1.4	QPSK	3	1	22.83	22.77	22.56
1.4	QPSK	3	3	22.74	22.73	22.49
1.4	QPSK	6	0	21.82	21.79	21.55
1.4	16QAM	1	0	22.00	22.01	22.02
1.4	16QAM	1	3	22.02	22.07	22.11
1.4	16QAM	1	5	21.97	22.23	21.83
1.4	16QAM	3	0	21.85	21.89	21.66
1.4	16QAM	3	1	21.94	21.84	21.62
1.4	16QAM	3	3	21.88	21.92	21.64
1.4	16QAM	6	0	21.13	20.95	20.72
1.4	64QAM	1	0	21.29	20.84	21.01
1.4	64QAM	1	3	21.11	21.20	20.81
1.4	64QAM	1	5	21.17	21.07	21.09
1.4	64QAM	3	0	20.78	20.76	20.79
1.4	64QAM	3	1	21.20	20.75	20.84
1.4	64QAM	3	3	21.02	21.02	20.86
1.4	64QAM	6	0	19.93	19.88	19.66

LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26865	26915	26965
Frequency (MHz)				831.5	836.5	841.5
15	QPSK	1	0	23.26	23.05	23.02
15	QPSK	1	37	23.23	23.07	22.80
15	QPSK	1	74	23.12	23.03	23.00
15	QPSK	36	0	22.38	22.14	22.06
15	QPSK	36	20	22.27	22.12	22.04
15	QPSK	36	39	22.40	22.10	22.01
15	QPSK	75	0	22.31	22.12	21.91
15	16QAM	1	0	22.60	22.15	22.11
15	16QAM	1	37	22.41	22.32	22.34
15	16QAM	1	74	22.44	22.20	22.28
15	16QAM	36	0	21.35	21.12	21.01
15	16QAM	36	20	21.38	21.07	20.88
15	16QAM	36	39	21.30	21.11	20.93
15	16QAM	75	0	21.42	21.13	21.06
15	64QAM	1	0	21.40	21.16	21.29
15	64QAM	1	37	21.42	21.12	21.07
15	64QAM	1	74	21.35	20.95	21.02
15	64QAM	36	0	20.42	20.26	20.06
15	64QAM	36	20	20.40	20.09	20.00
15	64QAM	36	39	20.39	20.14	20.03
15	64QAM	75	0	20.43	20.08	19.94
Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.18	23.22	22.89
10	QPSK	1	25	23.20	23.01	22.95
10	QPSK	1	49	23.14	23.03	22.90
10	QPSK	25	0	22.54	22.24	22.06
10	QPSK	25	12	22.53	22.17	22.05
10	QPSK	25	25	22.50	22.25	22.08
10	QPSK	50	0	22.54	22.17	22.05
10	16QAM	1	0	22.60	22.64	22.33
10	16QAM	1	25	22.65	22.39	22.24
10	16QAM	1	49	22.65	22.40	22.20
10	16QAM	25	0	21.55	21.26	21.07
10	16QAM	25	12	21.49	21.31	21.09
10	16QAM	25	25	21.38	21.26	21.06
10	16QAM	50	0	21.52	21.30	21.09
10	64QAM	1	0	21.53	21.37	21.15
10	64QAM	1	25	21.56	21.44	21.36
10	64QAM	1	49	21.49	21.27	21.07
10	64QAM	25	0	20.52	20.29	20.08
10	64QAM	25	12	20.54	20.27	20.04
10	64QAM	25	25	20.54	20.26	20.06
10	64QAM	50	0	20.51	20.29	20.06

Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.10	23.17	23.05
5	QPSK	1	12	23.08	23.22	22.95
5	QPSK	1	24	23.07	23.18	22.90
5	QPSK	12	0	22.55	22.18	22.11
5	QPSK	12	7	22.55	22.34	22.08
5	QPSK	12	13	22.58	22.28	22.09
5	QPSK	25	0	22.56	22.18	22.10
5	16QAM	1	0	22.68	22.20	22.49
5	16QAM	1	12	22.66	22.22	22.49
5	16QAM	1	24	22.40	22.34	22.41
5	16QAM	12	0	21.55	21.18	21.08
5	16QAM	12	7	21.54	21.26	21.06
5	16QAM	12	13	21.56	21.33	21.08
5	16QAM	25	0	21.48	21.25	21.07
5	64QAM	1	0	21.65	21.29	21.41
5	64QAM	1	12	21.50	21.33	21.44
5	64QAM	1	24	21.49	21.37	21.17
5	64QAM	12	0	20.66	20.27	20.30
5	64QAM	12	7	20.64	20.23	20.26
5	64QAM	12	13	20.59	20.27	20.24
5	64QAM	25	0	20.56	20.23	20.23
Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.25	23.08	23.01
3	QPSK	1	8	23.13	23.12	23.04
3	QPSK	1	14	23.11	23.15	22.89
3	QPSK	8	0	22.47	22.19	22.07
3	QPSK	8	4	22.51	22.25	22.07
3	QPSK	8	7	22.50	22.23	22.03
3	QPSK	15	0	22.50	22.19	22.05
3	16QAM	1	0	22.74	22.48	22.50
3	16QAM	1	8	22.83	22.55	22.51
3	16QAM	1	14	22.68	22.41	22.42
3	16QAM	8	0	21.60	21.25	21.18
3	16QAM	8	4	21.63	21.34	21.18
3	16QAM	8	7	21.59	21.16	21.14
3	16QAM	15	0	21.55	21.20	21.10
3	64QAM	1	0	21.64	21.50	21.22
3	64QAM	1	8	21.69	21.44	21.30
3	64QAM	1	14	21.58	21.65	21.24
3	64QAM	8	0	20.57	20.26	20.11
3	64QAM	8	4	20.59	20.31	20.29
3	64QAM	8	7	20.50	20.30	20.10
3	64QAM	15	0	20.54	20.26	20.13
Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.98	22.99	22.93
1.4	QPSK	1	3	23.24	23.04	22.93

1.4	QPSK	1	5	23.04	23.01	22.94
1.4	QPSK	3	0	23.04	23.04	23.07
1.4	QPSK	3	1	23.15	23.15	23.05
1.4	QPSK	3	3	23.17	23.14	23.01
1.4	QPSK	6	0	22.49	22.24	22.05
1.4	16QAM	1	0	22.35	22.16	22.18
1.4	16QAM	1	3	22.38	22.16	22.22
1.4	16QAM	1	5	22.58	22.10	22.13
1.4	16QAM	3	0	22.34	22.14	21.95
1.4	16QAM	3	1	22.38	22.31	22.04
1.4	16QAM	3	3	22.31	22.17	21.94
1.4	16QAM	6	0	21.44	21.04	21.00
1.4	64QAM	1	0	21.60	21.44	21.13
1.4	64QAM	1	3	21.53	21.62	21.16
1.4	64QAM	1	5	21.47	21.39	21.19
1.4	64QAM	3	0	21.42	21.32	21.31
1.4	64QAM	3	1	21.48	21.53	21.26
1.4	64QAM	3	3	21.53	21.20	21.20
1.4	64QAM	6	0	20.52	20.12	20.14

LTE Band 71:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	23.20	23.10	23.06
20	QPSK	1	49	23.06	23.06	22.87
20	QPSK	1	99	22.86	22.74	22.76
20	QPSK	50	0	22.21	22.18	22.10
20	QPSK	50	24	22.20	22.09	22.03
20	QPSK	50	50	22.09	22.00	21.88
20	QPSK	100	0	22.18	22.04	21.98
20	16QAM	1	0	22.32	22.27	22.30
20	16QAM	1	49	22.28	22.22	22.06
20	16QAM	1	99	22.06	21.87	21.84
20	16QAM	50	0	21.18	21.18	21.02
20	16QAM	50	24	21.20	21.00	20.98
20	16QAM	50	50	21.06	20.97	20.87
20	16QAM	100	0	21.13	21.08	20.98
20	64QAM	1	0	21.48	21.43	21.36
20	64QAM	1	49	21.40	21.28	21.33
20	64QAM	1	99	21.15	21.05	21.00
20	64QAM	50	0	20.32	20.26	20.03
20	64QAM	50	24	20.15	20.12	20.06
20	64QAM	50	50	20.08	19.97	19.88
20	64QAM	100	0	20.18	20.07	20.03
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	23.12	23.16	23.08
15	QPSK	1	37	23.03	23.08	22.86
15	QPSK	1	74	22.86	22.71	22.75
15	QPSK	36	0	22.18	22.21	22.07
15	QPSK	36	20	22.20	22.09	22.03
15	QPSK	36	39	22.08	22.02	21.90
15	QPSK	75	0	22.15	22.06	21.97
15	16QAM	1	0	22.29	22.27	22.27
15	16QAM	1	37	22.28	22.24	22.08
15	16QAM	1	74	22.03	21.86	21.81
15	16QAM	36	0	21.17	21.15	20.99
15	16QAM	36	20	21.20	20.95	20.95
15	16QAM	36	39	21.03	20.95	20.87
15	16QAM	75	0	21.12	21.08	20.97
15	64QAM	1	0	21.47	21.40	21.35
15	64QAM	1	37	21.39	21.25	21.32
15	64QAM	1	74	21.17	21.02	21.00
15	64QAM	36	0	20.32	20.28	20.00
15	64QAM	36	20	20.15	20.09	20.00
15	64QAM	36	39	20.05	19.94	19.87
15	64QAM	75	0	20.17	20.04	20.02

Channel				133172	133272	133422
Frequency (MHz)				668	678	693
10	QPSK	1	0	23.07	23.11	23.03
10	QPSK	1	25	23.00	23.03	22.81
10	QPSK	1	49	22.83	22.66	22.70
10	QPSK	25	0	22.15	22.18	22.04
10	QPSK	25	12	22.17	22.06	22.00
10	QPSK	25	25	22.03	21.97	21.85
10	QPSK	50	0	22.12	22.01	21.92
10	16QAM	1	0	22.26	22.24	22.24
10	16QAM	1	25	22.25	22.19	22.03
10	16QAM	1	49	22.00	21.81	21.78
10	16QAM	25	0	21.12	21.12	20.96
10	16QAM	25	12	21.17	20.94	20.92
10	16QAM	25	25	21.00	20.94	20.84
10	16QAM	50	0	21.07	21.05	20.92
10	64QAM	1	0	21.42	21.37	21.30
10	64QAM	1	25	21.34	21.22	21.27
10	64QAM	1	49	21.12	20.99	20.97
10	64QAM	25	0	20.29	20.23	19.97
10	64QAM	25	12	20.12	20.06	19.97
10	64QAM	25	25	20.02	19.91	19.82
10	64QAM	50	0	20.12	20.01	19.97
Channel				133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5
5	QPSK	1	0	23.10	23.14	23.00
5	QPSK	1	12	23.03	23.06	22.78
5	QPSK	1	24	22.86	22.69	22.67
5	QPSK	12	0	22.18	22.21	22.01
5	QPSK	12	7	22.17	22.06	21.97
5	QPSK	12	13	22.03	21.97	21.88
5	QPSK	25	0	22.12	22.01	21.95
5	16QAM	1	0	22.23	22.21	22.27
5	16QAM	1	12	22.25	22.19	22.06
5	16QAM	1	24	22.00	21.81	21.81
5	16QAM	12	0	21.15	21.15	20.99
5	16QAM	12	7	21.17	20.94	20.92
5	16QAM	12	13	21.00	20.94	20.84
5	16QAM	25	0	21.07	21.05	20.92
5	64QAM	1	0	21.42	21.37	21.30
5	64QAM	1	12	21.31	21.19	21.24
5	64QAM	1	24	21.12	20.99	20.97
5	64QAM	12	0	20.32	20.26	20.00
5	64QAM	12	7	20.15	20.09	20.00
5	64QAM	12	13	20.05	19.94	19.85
5	64QAM	25	0	20.15	20.04	20.00

CA Power

CA_5B									
Combination 10MHz+10MHz (50RB+50RB)									
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			
20450	20549	QPSK	50	0	50	0	100	≤2	22.82
			1	0	1	49	2	≤8.5	14.27
			1	49	1	0	2	≤0	22.63
		16QAM	50	0	50	0	100	≤3	21.85
			1	0	1	49	2	≤8.5	14.48
			1	49	1	0	2	≤1	21.90
		64QAM	50	0	50	0	100	≤3	21.87
			1	0	1	49	2	≤8.5	14.65
			1	49	1	0	2	≤3	21.91
20476	20575	QPSK	50	0	50	0	100	≤2	22.73
			1	0	1	49	2	≤8.5	14.27
			1	49	1	0	2	≤0	22.57
		16QAM	50	0	50	0	100	≤3	21.77
			1	0	1	49	2	≤8.5	14.55
			1	49	1	0	2	≤1	21.89
		64QAM	50	0	50	0	100	≤3	21.82
			1	0	1	49	2	≤8.5	14.51
			1	49	1	0	2	≤3	21.87
20501	20600	QPSK	50	0	50	0	100	≤2	22.75
			1	0	1	49	2	≤8.5	14.26
			1	49	1	0	2	≤0	22.57
		16QAM	50	0	50	0	100	≤3	21.72
			1	0	1	49	2	≤8.5	14.43
			1	49	1	0	2	≤1	21.72
		64QAM	50	0	50	0	100	≤3	21.78
			1	0	1	49	2	≤8.5	14.30
			1	49	1	0	2	≤3	21.75

CA_5B									
Combination 10MHz+5MHz (50RB+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			
20450	20522	QPSK	50	0	25	0	75	≤2	22.85
			1	0	1	24	2	≤8.5	14.84
			1	49	1	0	2	≤0	22.65
		16QAM	50	0	25	0	75	≤3	21.90
			1	0	1	24	2	≤8.5	15.16
			1	49	1	0	2	≤1	21.96
		64QAM	50	0	25	0	75	≤3	21.88
			1	0	1	24	2	≤8.5	15.12
			1	49	1	0	2	≤3	21.89
20500	20572	QPSK	50	0	25	0	75	≤2	22.74
			1	0	1	24	2	≤8.5	14.77
			1	49	1	0	2	≤0	22.62
		16QAM	50	0	25	0	75	≤3	22.13
			1	0	1	24	2	≤8.5	15.38
			1	49	1	0	2	≤1	22.22
		64QAM	50	0	25	0	75	≤3	21.84
			1	0	1	24	2	≤8.5	15.02
			1	49	1	0	2	≤3	21.85
20550	20622	QPSK	50	0	25	0	75	≤2	23.12
			1	0	1	24	2	≤8.5	15.07
			1	49	1	0	2	≤0	22.96
		16QAM	50	0	25	0	75	≤3	21.80
			1	0	1	24	2	≤8.5	15.07
			1	49	1	0	2	≤1	21.90
		64QAM	50	0	25	0	75	≤3	22.09
			1	0	1	24	2	≤8.5	15.35
			1	49	1	0	2	≤3	22.04
Combination 5MHz+10MHz (25RB+50RB)									
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			
20428	20500	QPSK	25	0	50	0	75	≤2	22.86
			1	0	1	49	2	≤8.5	14.89
			1	24	1	0	2	≤0	22.76
		16QAM	25	0	50	0	75	≤3	22.21
			1	0	1	49	2	≤8.5	15.63
			1	24	1	0	2	≤1	22.46
		64QAM	25	0	50	0	75	≤3	22.25
			1	0	1	49	2	≤8.5	15.31
			1	24	1	0	2	≤3	22.23
20478	20550	QPSK	25	0	50	0	75	≤2	23.15
			1	0	1	49	2	≤8.5	15.09
			1	24	1	0	2	≤0	23.05
		16QAM	25	0	50	0	75	≤3	21.90
			1	0	1	49	2	≤8.5	15.32
			1	24	1	0	2	≤1	22.35

		64QAM	25	0	50	0	75	≤3	22.14
			1	0	1	49	2	≤8.5	15.35
			1	24	1	0	2	≤3	22.33
20528	20600	QPSK	25	0	50	0	75	≤2	23.18
			1	0	1	49	2	≤8.5	15.11
			1	24	1	0	2	≤0	23.01
		16QAM	25	0	50	0	75	≤3	22.20
			1	0	1	49	2	≤8.5	15.57
			1	24	1	0	2	≤1	22.66
		64QAM	25	0	50	0	75	≤3	21.90
			1	0	1	49	2	≤8.5	15.17
			1	24	1	0	2	≤3	21.95
Combination 5MHz+3MHz (25RB+156RB)									
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			
20425	20464	QPSK	25	0	15	0	40	≤2	23.48
			1	0	1	14	2	≤8.5	15.03
			1	24	1	0	2	≤0	23.68
		16QAM	25	0	15	0	40	≤3	23.65
			1	0	1	14	2	≤8.5	15.27
			1	24	1	0	2	≤1	23.64
		64QAM	25	0	15	0	40	≤3	23.24
			1	0	1	14	2	≤8.5	15.46
			1	24	1	0	2	≤3	23.13
20510	20549	QPSK	25	0	15	0	40	≤2	23.64
			1	0	1	14	2	≤8.5	15.23
			1	24	1	0	2	≤0	23.70
		16QAM	25	0	15	0	40	≤3	23.45
			1	0	1	14	2	≤8.5	15.52
			1	24	1	0	2	≤1	23.65
		64QAM	25	0	15	0	40	≤3	23.67
			1	0	1	14	2	≤8.5	15.55
			1	24	1	0	2	≤3	23.62
20595	20634	QPSK	25	0	15	0	40	≤2	23.74
			1	0	1	14	2	≤8.5	15.22
			1	24	1	0	2	≤0	23.71
		16QAM	25	0	15	0	40	≤3	23.76
			1	0	1	14	2	≤8.5	15.69
			1	24	1	0	2	≤1	23.68
		64QAM	25	0	15	0	40	≤3	22.92
			1	0	1	14	2	≤8.5	15.15
			1	24	1	0	2	≤3	22.70
Combination 3MHz+5MHz (15RB+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			
20416	20455	QPSK	15	0	25	0	40	≤2	23.55
			1	0	1	24	2	≤8.5	14.97
			1	14	1	0	2	≤0	23.49
		16QAM	15	0	25	0	40	≤3	23.67
			1	0	1	24	2	≤8.5	15.66

			1	14	1	0	2	≤1	23.68
		64QAM	15	0	25	0	40	≤3	23.61
			1	0	1	24	2	≤8.5	15.56
			1	14	1	0	2	≤3	23.42
20501	20540	QPSK	15	0	25	0	40	≤2	23.73
			1	0	1	24	2	≤8.5	15.18
			1	14	1	0	2	≤0	23.74
		16QAM	15	0	25	0	40	≤3	23.45
			1	0	1	24	2	≤8.5	15.25
			1	14	1	0	2	≤1	23.70
		64QAM	15	0	25	0	40	≤3	23.63
			1	0	1	24	2	≤8.5	15.47
			1	14	1	0	2	≤3	23.61
20586	20625	QPSK	15	0	25	0	40	≤2	23.66
			1	0	1	24	2	≤8.5	15.21
			1	14	1	0	2	≤0	23.74
		16QAM	15	0	25	0	40	≤3	23.29
			1	0	1	24	2	≤8.5	15.65
			1	14	1	0	2	≤1	23.35
		64QAM	15	0	25	0	40	≤3	22.57
			1	0	1	24	2	≤8.5	15.28
			1	14	1	0	2	≤3	22.04

ERP/EIRP

LTE Band 12 (GT - LC = -3.69 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.82	22.88	22.75	22.73	22.81	22.74	22.87	22.90	22.82
Conducted Power (Watts)	0.1914	0.1941	0.1884	0.1875	0.1910	0.1879	0.1936	0.1950	0.1914
ERP(dBm)	16.98	17.04	16.91	16.89	16.97	16.90	17.03	17.06	16.98
ERP(Watts)	0.0499	0.0506	0.0491	0.0489	0.0498	0.0490	0.0505	0.0508	0.0499

LTE Band 12 (GT - LC = -3.69 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.90	22.93	22.88
Conducted Power (Watts)	0.1950	0.1963	0.1941
ERP(dBm)	17.06	17.09	17.04
ERP(Watts)	0.0508	0.0512	0.0506

LTE Band 12 (GT - LC = -3.69 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.40	22.38	22.30	22.30	22.37	22.29	22.37	22.43	22.34
Conducted Power (Watts)	0.1738	0.1730	0.1698	0.1698	0.1726	0.1694	0.1726	0.1750	0.1714
ERP(dBm)	16.56	16.54	16.46	16.46	16.53	16.45	16.53	16.59	16.50
ERP(Watts)	0.0453	0.0451	0.0443	0.0443	0.0450	0.0442	0.0450	0.0456	0.0447

LTE Band 12 (GT - LC = -3.69 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.44	22.36	22.33
Conducted Power (Watts)	0.1754	0.1722	0.1710
ERP(dBm)	16.60	16.52	16.49
ERP(Watts)	0.0457	0.0449	0.0446

LTE Band 12 (GT - LC = -3.69 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.31	21.29	21.18	21.25	21.36	21.23	21.37	21.36	21.30
Conducted Power (Watts)	0.1352	0.1346	0.1312	0.1334	0.1368	0.1327	0.1371	0.1368	0.1349
ERP(dBm)	15.47	15.45	15.34	15.41	15.52	15.39	15.53	15.52	15.46
ERP(Watts)	0.0352	0.0351	0.0342	0.0348	0.0356	0.0346	0.0357	0.0356	0.0352

LTE Band 12 (GT - LC = -3.69 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.27	21.34	21.30
Conducted Power (Watts)	0.1340	0.1361	0.1349
ERP(dBm)	15.43	15.50	15.46
ERP(Watts)	0.0349	0.0355	0.0352

LTE Band 13 (GT - LC = -4.20 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	22.93	22.92	22.92		22.94	-
Conducted Power (Watts)	0.1963	0.1959	0.1959		0.1968	-
ERP(dBm)	16.58	16.57	16.57		16.59	-
ERP(Watts)	0.0455	0.0454	0.0454		0.0456	-

LTE Band 13 (GT - LC = -4.20 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	22.22	22.24	22.29		22.21	-
Conducted Power (Watts)	0.1667	0.1675	0.1694		0.1663	-
ERP(dBm)	15.87	15.89	15.94		15.86	-
ERP(Watts)	0.0386	0.0388	0.0393		0.0385	-

LTE Band 13 (GT - LC = -4.20 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	21.17	21.22	21.21		21.23	-
Conducted Power (Watts)	0.1309	0.1324	0.1321		0.1327	-
ERP(dBm)	14.82	14.87	14.86		14.88	-
ERP(Watts)	0.0303	0.0307	0.0306		0.0308	-

LTE Band 25 (GT - LC = -0.57 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	22.83	22.77	22.56	22.73	22.87	22.61	22.85	22.70	22.65
Conducted Power (Watts)	0.1919	0.1892	0.1803	0.1875	0.1936	0.1824	0.1928	0.1862	0.1841
EIRP(dBm)	22.26	22.20	21.99	22.16	22.30	22.04	22.28	22.13	22.08
EIRP(Watts)	0.1683	0.1660	0.1581	0.1644	0.1698	0.1600	0.1690	0.1633	0.1614

LTE Band 25 (GT - LC = -0.57 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	22.85	22.76	22.65	22.85	22.62	22.42	22.87	22.75	22.56
Conducted Power (Watts)	0.1928	0.1888	0.1841	0.1928	0.1828	0.1746	0.1936	0.1884	0.1803
EIRP(dBm)	22.28	22.19	22.08	22.28	22.05	21.85	22.30	22.18	21.99
EIRP(Watts)	0.1690	0.1656	0.1614	0.1690	0.1603	0.1531	0.1698	0.1652	0.1581

LTE Band 25 (GT - LC = -0.57 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	21.97	22.23	21.83	22.45	22.15	22.03	22.47	22.42	22.22
Conducted Power (Watts)	0.1574	0.1671	0.1524	0.1758	0.1641	0.1596	0.1766	0.1746	0.1667
EIRP(dBm)	21.40	21.66	21.26	21.88	21.58	21.46	21.90	21.85	21.65
EIRP(Watts)	0.1380	0.1466	0.1337	0.1542	0.1439	0.1400	0.1549	0.1531	0.1462

LTE Band 25 (GT - LC = -0.57 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	21.96	22.08	21.83	21.87	22.32	22.01	22.24	22.02	21.79
Conducted Power (Watts)	0.1570	0.1614	0.1524	0.1538	0.1706	0.1589	0.1675	0.1592	0.1510
EIRP(dBm)	21.39	21.51	21.26	21.30	21.75	21.44	21.67	21.45	21.22
EIRP(Watts)	0.1377	0.1416	0.1337	0.1349	0.1496	0.1393	0.1469	0.1396	0.1324

LTE Band 25 (GT - LC = -0.57 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	21.29	20.84	21.01	20.95	21.10	21.12	21.44	20.96	21.02
Conducted Power (Watts)	0.1346	0.1213	0.1262	0.1245	0.1288	0.1294	0.1393	0.1247	0.1265
EIRP(dBm)	20.72	20.27	20.44	20.38	20.53	20.55	20.87	20.39	20.45
EIRP(Watts)	0.1180	0.1064	0.1107	0.1091	0.1130	0.1135	0.1222	0.1094	0.1109

LTE Band 25 (GT - LC = -0.57 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	21.22	20.85	20.76	20.94	21.06	21.05	21.02	20.99	20.78
Conducted Power (Watts)	0.1324	0.1216	0.1191	0.1242	0.1276	0.1274	0.1265	0.1256	0.1197
EIRP(dBm)	20.65	20.28	20.19	20.37	20.49	20.48	20.45	20.42	20.21
EIRP(Watts)	0.1161	0.1067	0.1045	0.1089	0.1119	0.1117	0.1109	0.1102	0.1050

LTE Band 26 (GT - LC = -3.69 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.50	22.39	22.33	22.49	22.51	22.39	22.51	22.42	22.34
Conducted Power (Watts)	0.1778	0.1734	0.1710	0.1774	0.1782	0.1734	0.1782	0.1746	0.1714
ERP(dBm)	16.66	16.55	16.49	16.65	16.67	16.55	16.67	16.58	16.50
ERP(Watts)	0.0463	0.0452	0.0446	0.0462	0.0465	0.0452	0.0465	0.0455	0.0447

LTE Band 26 (GT - LC = -3.69 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	22.44	22.38	22.46	22.54	22.49	22.45	22.54
Conducted Power (Watts)	0.1754	0.1730	0.1762	0.1795	0.1774	0.1758	0.1795
ERP(dBm)	16.60	16.54	16.62	16.70	16.65	16.61	16.70
ERP(Watts)	0.0457	0.0451	0.0459	0.0468	0.0462	0.0458	0.0468

LTE Band 26 (GT - LC = -3.69 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.86	21.74	21.75	21.90	22.03	21.77	21.86	21.72	21.66
Conducted Power (Watts)	0.1535	0.1493	0.1496	0.1549	0.1596	0.1503	0.1535	0.1486	0.1466
ERP(dBm)	16.02	15.90	15.91	16.06	16.19	15.93	16.02	15.88	15.82
ERP(Watts)	0.0400	0.0389	0.0390	0.0404	0.0416	0.0392	0.0400	0.0387	0.0382

LTE Band 26 (GT - LC = -3.69 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.80	21.74	21.74	21.81	21.75	21.91	21.81
Conducted Power (Watts)	0.1514	0.1493	0.1493	0.1517	0.1496	0.1552	0.1517
ERP(dBm)	15.96	15.90	15.90	15.97	15.91	16.07	15.97
ERP(Watts)	0.0394	0.0389	0.0389	0.0395	0.0390	0.0405	0.0395

LTE Band 26 (GT - LC = -3.69 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.77	20.55	20.59	20.93	20.72	20.70	20.79	20.71	20.61
Conducted Power (Watts)	0.1194	0.1135	0.1146	0.1239	0.1180	0.1175	0.1199	0.1178	0.1151
ERP(dBm)	14.93	14.71	14.75	15.09	14.88	14.86	14.95	14.87	14.77
ERP(Watts)	0.0311	0.0296	0.0299	0.0323	0.0308	0.0306	0.0313	0.0307	0.0300

LTE Band 26 (GT - LC = -3.69 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	20.70	20.55	20.55	20.75	20.68	20.63	20.75
Conducted Power (Watts)	0.1175	0.1135	0.1135	0.1189	0.1169	0.1156	0.1189
ERP(dBm)	14.86	14.71	14.71	14.91	14.84	14.79	14.91
ERP(Watts)	0.0306	0.0296	0.0296	0.0310	0.0305	0.0301	0.0310

LTE Band 71 (GT - LC = -4.10 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	22.62	22.81	22.62	22.79	22.83	22.68	22.76	22.72	22.76
Conducted Power (Watts)	0.1828	0.1910	0.1828	0.1901	0.1919	0.1854	0.1888	0.1871	0.1888
ERP(dBm)	16.37	16.56	16.37	16.54	16.58	16.43	16.51	16.47	16.51
ERP(Watts)	0.0434	0.0453	0.0434	0.0451	0.0455	0.0440	0.0448	0.0444	0.0448

LTE Band 71 (GT - LC = -4.10 dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	22.82	22.86	22.79
Conducted Power (Watts)	0.1914	0.1932	0.1901
ERP(dBm)	16.57	16.61	16.54
ERP(Watts)	0.0454	0.0458	0.0451

LTE Band 71 (GT - LC = -4.10 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	22.04	21.86	21.96	21.90	22.06	21.91	22.03	21.93	21.94
Conducted Power (Watts)	0.1600	0.1535	0.1570	0.1549	0.1607	0.1552	0.1596	0.1560	0.1563
ERP(dBm)	15.79	15.61	15.71	15.65	15.81	15.66	15.78	15.68	15.69
ERP(Watts)	0.0379	0.0364	0.0372	0.0367	0.0381	0.0368	0.0378	0.0370	0.0371

LTE Band 71 (GT - LC = -4.10 dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	22.06	22.08	22.02
Conducted Power (Watts)	0.1607	0.1614	0.1592
ERP(dBm)	15.81	15.83	15.77
ERP(Watts)	0.0381	0.0383	0.0378

LTE Band 71 (GT - LC = -4.10 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	20.97	21.00	21.06	20.94	21.11	20.97	20.94	21.00	21.08
Conducted Power (Watts)	0.1250	0.1259	0.1276	0.1242	0.1291	0.1250	0.1242	0.1259	0.1282
ERP(dBm)	14.72	14.75	14.81	14.69	14.86	14.72	14.69	14.75	14.83
ERP(Watts)	0.0296	0.0299	0.0303	0.0294	0.0306	0.0296	0.0294	0.0299	0.0304

LTE Band 71 (GT - LC = -4.10 dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	21.02	21.16	21.10
Conducted Power (Watts)	0.1265	0.1306	0.1288
ERP(dBm)	14.77	14.91	14.85
ERP(Watts)	0.0300	0.0310	0.0305

CA EIRP

LTE Band 5B_CA (GT - LC = -4.00 dB) QPSK									
Bandwidth	10M + 10M			5M + 10M			10M + 5M		
Channel PCC	20450	20476	20501	20428	20478	20528	20450	20500	20550
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600	20500	20550	20600	20522	20572	20622
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.82	22.73	22.75	22.86	23.15	23.18	22.85	22.74	23.12
Conducted Power (Watts)	0.1914	0.1875	0.1884	0.1932	0.2065	0.2080	0.1928	0.1879	0.2051
ERP(dBm)	16.67	16.58	16.60	16.71	17.00	17.03	16.70	16.59	16.97
ERP(Watts)	0.0465	0.0455	0.0457	0.0469	0.0501	0.0505	0.0468	0.0456	0.0498

LTE Band 5B_CA (GT - LC = -4.00 dB) QPSK						
Bandwidth	5M + 3M			3M + 5M		
Channel PCC	20425	20510	20595	20416	20501	20586
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20464	20549	20634	20455	20540	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.68	23.70	23.74	23.55	23.74	23.74
Conducted Power (Watts)	0.2333	0.2344	0.2366	0.2265	0.2366	0.2366
ERP(dBm)	17.53	17.55	17.59	17.40	17.59	17.59
ERP(Watts)	0.0566	0.0569	0.0574	0.0550	0.0574	0.0574

LTE Band 5B_CA (GT - LC = -4.00 dB) 16QAM									
Bandwidth	10M + 10M			5M + 10M			10M+5M		
Channel PCC	20450	20476	20501	20428	20478	20528	20450	20500	20550
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600	20500	20550	20600	20522	20572	20622
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.90	21.89	21.72	22.46	22.35	22.66	21.96	22.22	21.90
Conducted Power (Watts)	0.1549	0.1545	0.1486	0.1762	0.1718	0.1845	0.1570	0.1667	0.1549
ERP(dBm)	15.75	15.74	15.57	16.31	16.20	16.51	15.81	16.07	15.75
ERP(Watts)	0.0376	0.0375	0.0361	0.0428	0.0417	0.0448	0.0381	0.0405	0.0376

LTE Band 5B_CA (GT - LC = -4.00 dB) 16QAM						
Bandwidth	5M + 3M			3M + 5M		
Channel PCC	20425	20510	20595	20416	20501	20586
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20464	20549	20634	20455	20540	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.65	23.65	23.76	23.68	23.70	23.35
Conducted Power (Watts)	0.2317	0.2317	0.2377	0.2333	0.2344	0.2163
ERP(dBm)	17.50	17.50	17.61	17.53	17.55	17.20
ERP(Watts)	0.0562	0.0562	0.0577	0.0566	0.0569	0.0525

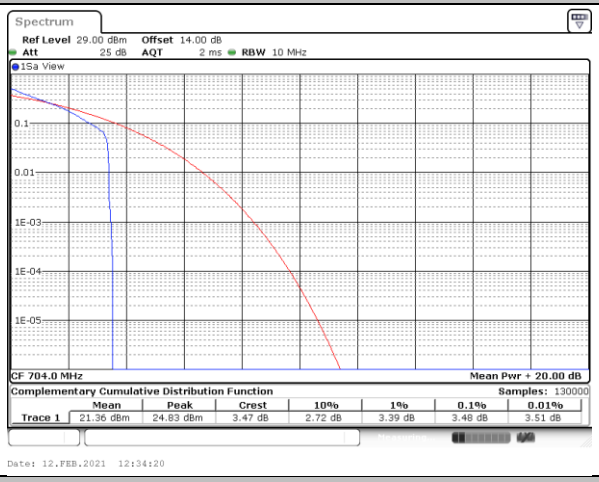
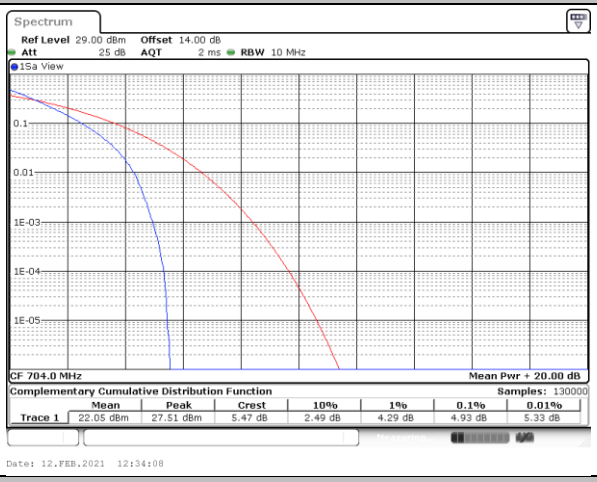
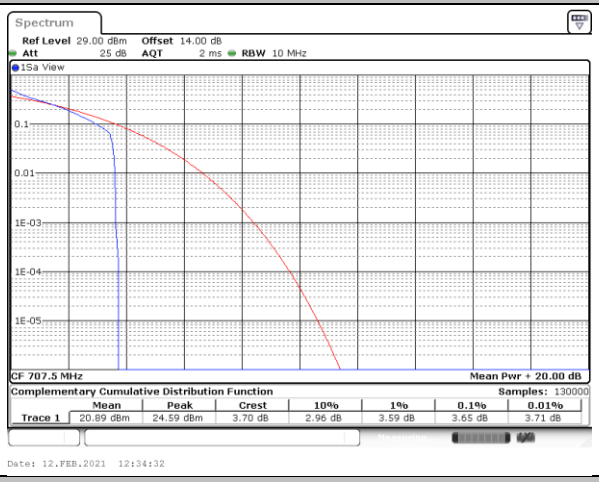
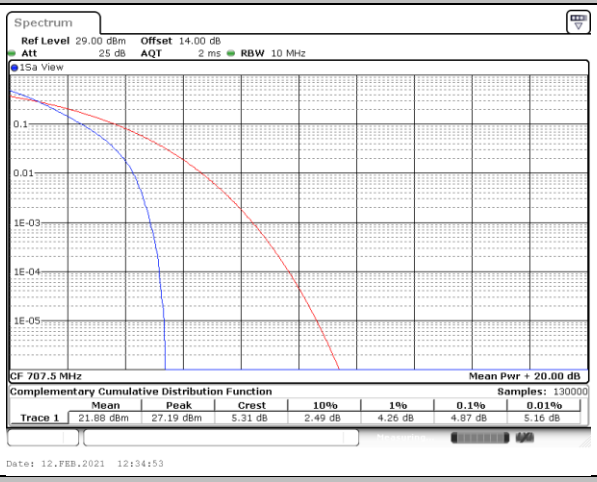
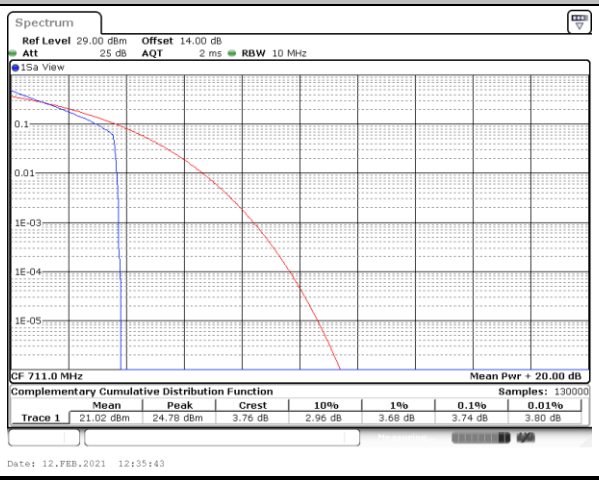
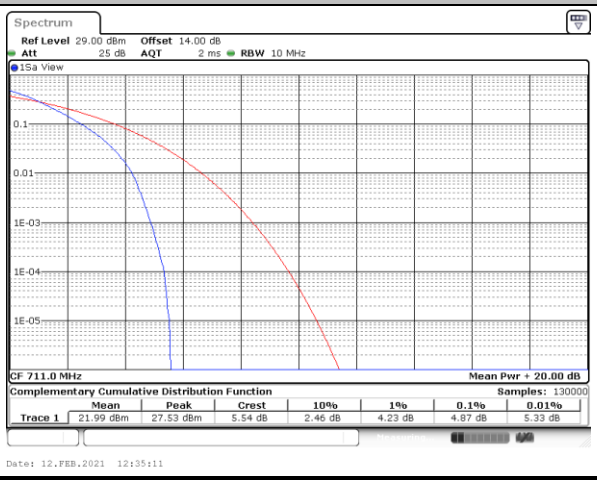
LTE Band 5B_CA (GT - LC = -4.00 dB) 64QAM									
Bandwidth	10M + 10M			5M + 10M			10M+5M		
Channel PCC	20450	20476	20501	20428	20478	20528	20450	20500	20550
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20549	20575	20600	20500	20550	20600	20522	20572	20622
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.91	21.87	21.78	22.25	22.33	21.95	21.89	21.85	22.09
Conducted Power (Watts)	0.1552	0.1538	0.1507	0.1679	0.1710	0.1567	0.1545	0.1531	0.1618
ERP(dBm)	15.76	15.72	15.63	16.10	16.18	15.80	15.74	15.70	15.94
ERP(Watts)	0.0377	0.0373	0.0366	0.0407	0.0415	0.0380	0.0375	0.0372	0.0393

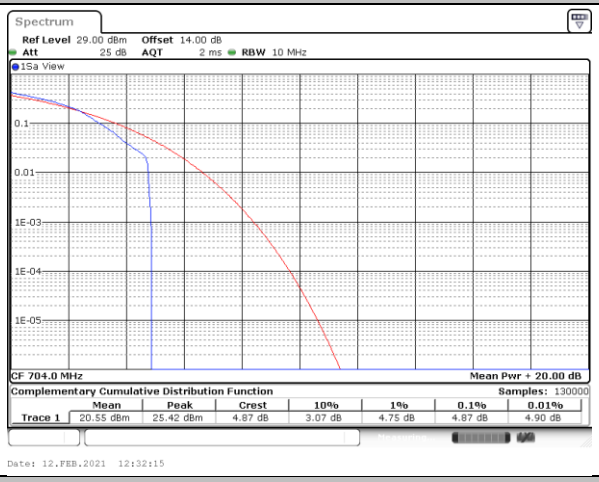
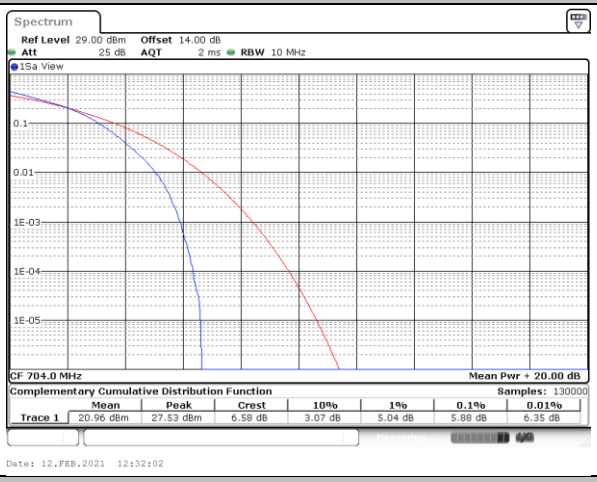
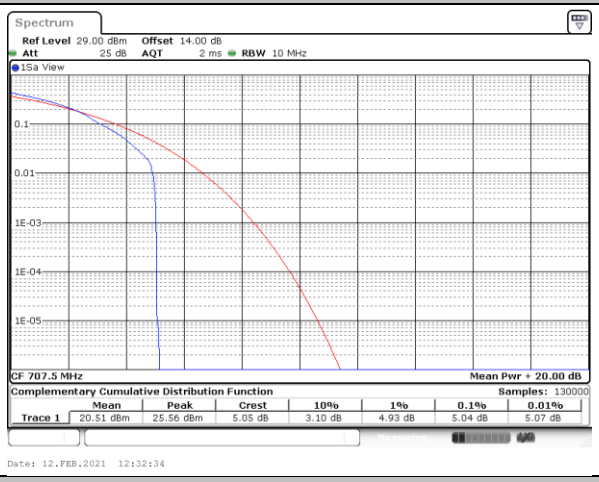
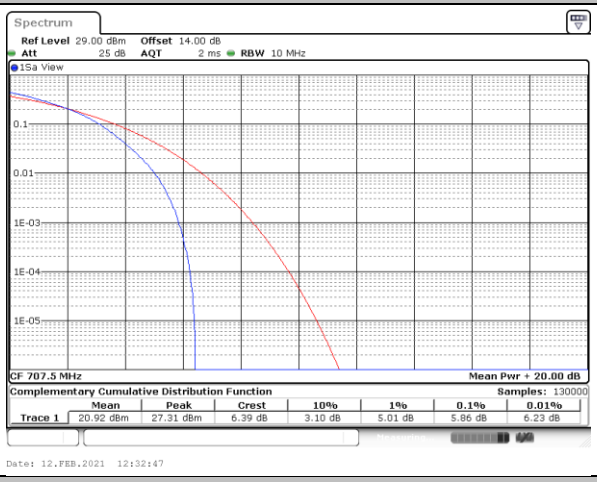
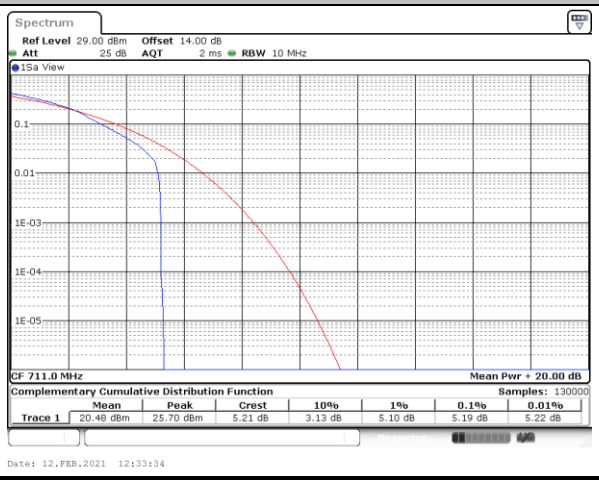
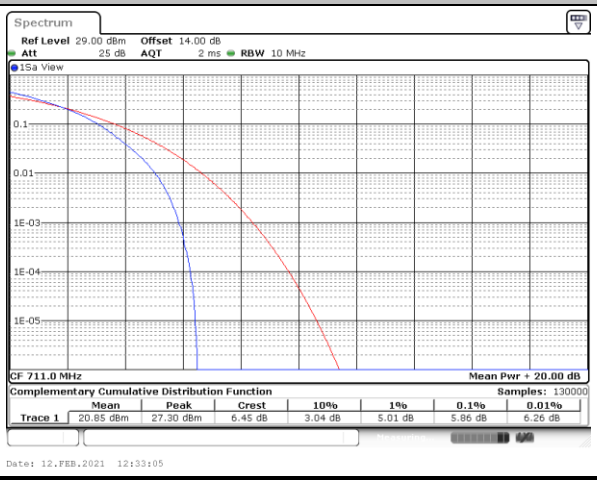
LTE Band 5B_CA (GT - LC = -4.00 dB) 64QAM						
Bandwidth	5M + 3M			3M + 5M		
Channel PCC	20425	20510	20595	20416	20501	20586
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20464	20549	20634	20455	20540	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.24	23.67	22.92	23.61	23.63	22.57
Conducted Power (Watts)	0.2109	0.2328	0.1959	0.2296	0.2307	0.1807
ERP(dBm)	17.09	17.52	16.77	17.46	17.48	16.42
ERP(Watts)	0.0512	0.0565	0.0475	0.0557	0.0560	0.0439

LTE Band 12

Peak-to-Average Ratio

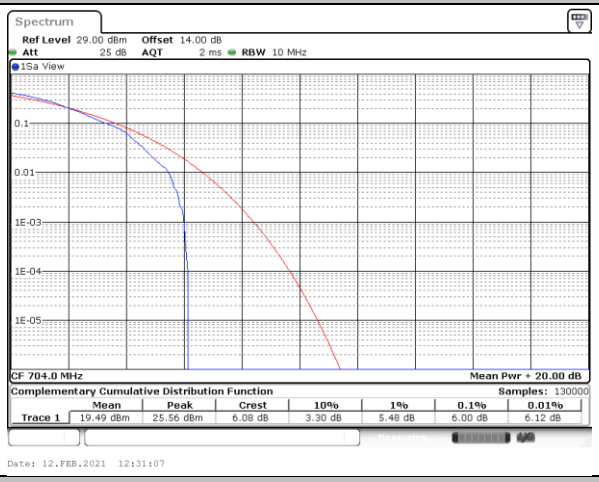
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.93	4.87	5.88	PASS
Middle CH	3.65	4.87	5.04	5.86	
Highest CH	3.74	4.87	5.19	5.86	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.00	6.49	-	-	PASS
Middle CH	6.14	6.46	-	-	
Highest CH	6.03	6.43	-	-	

LTE Band 12 / 10MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

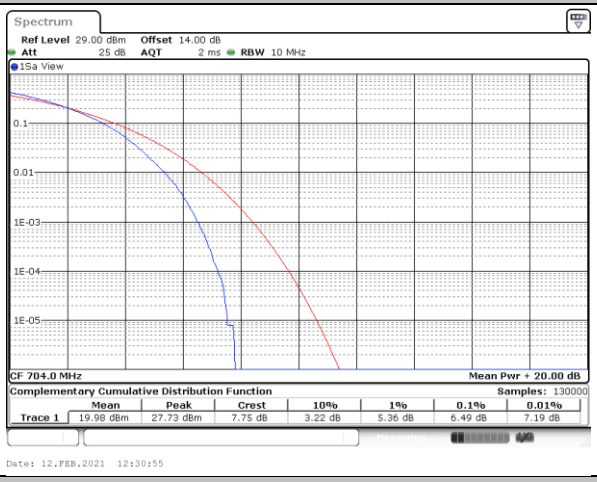
LTE Band 12 / 10MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 12 / 10MHz / 64QAM

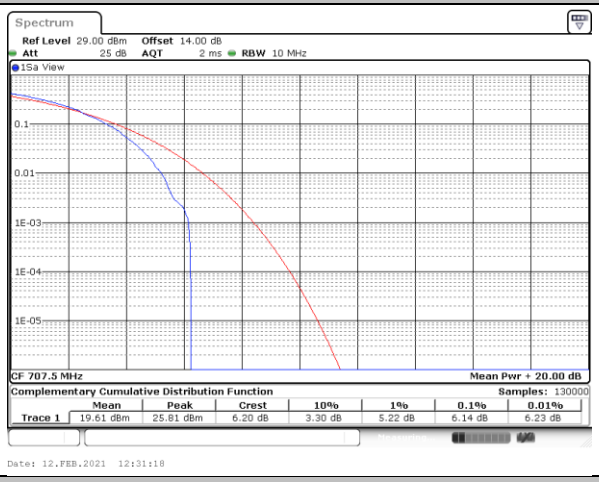
Lowest Channel / 1RB



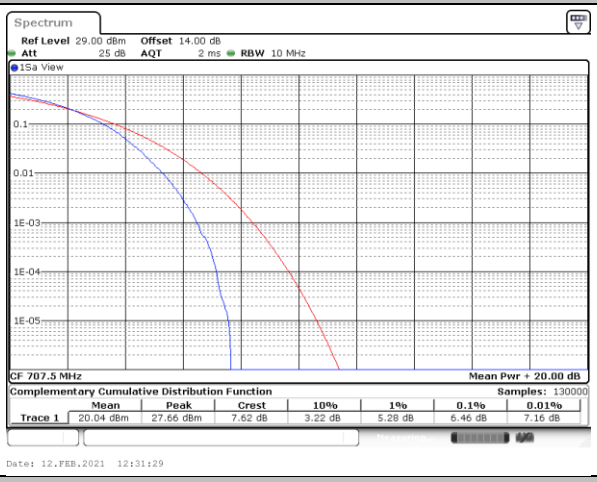
Lowest Channel / Full RB



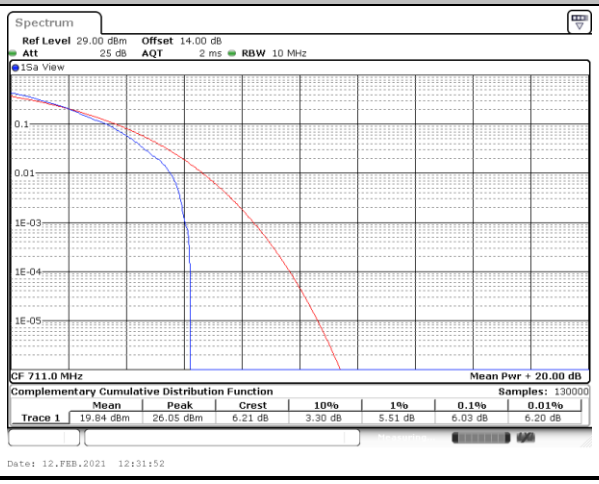
Middle Channel / 1RB



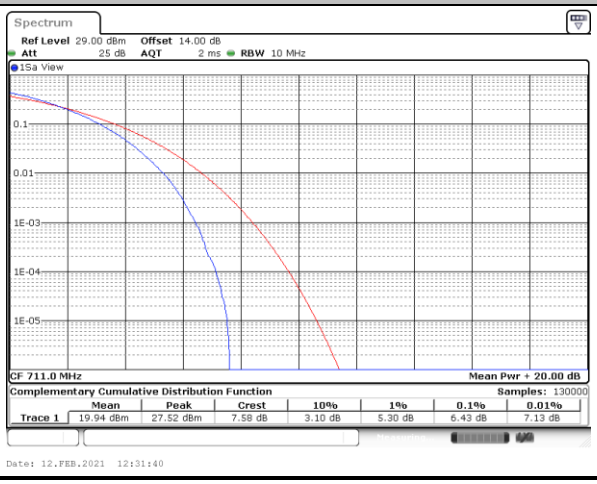
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

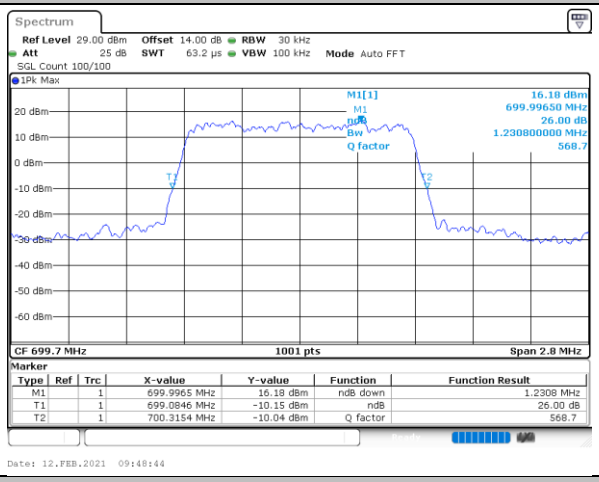


26dB Bandwidth

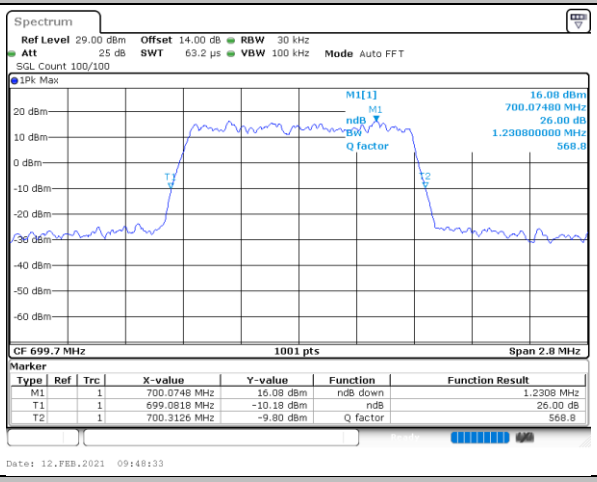
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.23	3.05	3.03	4.87	4.87	9.75	9.95	-	-	-	-
Middle CH	1.23	1.21	3.00	3.00	4.94	4.88	9.81	9.61	-	-	-	-
Highest CH	1.23	1.23	3.01	3.02	4.88	4.92	9.77	9.73	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.20	-	2.97	-	4.82	-	9.81	-	-	-	-	-
Middle CH	1.24	-	3.04	-	4.93	-	9.59	-	-	-	-	-
Highest CH	1.23	-	3.00	-	4.93	-	9.91	-	-	-	-	-

LTE Band 12

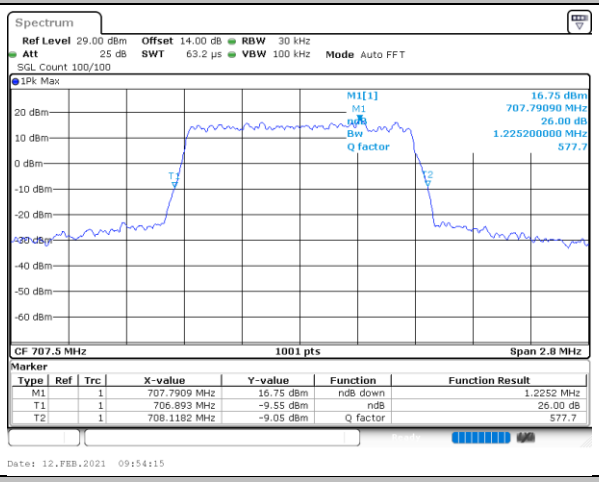
Lowest Channel / 1.4MHz / QPSK



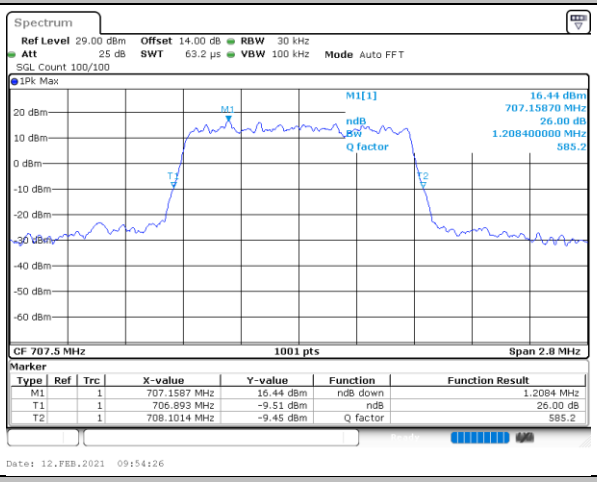
Lowest Channel / 1.4MHz / 16QAM



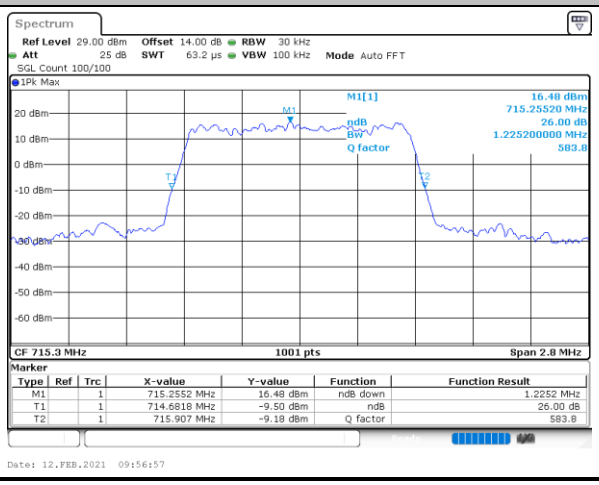
Middle Channel / 1.4MHz / QPSK



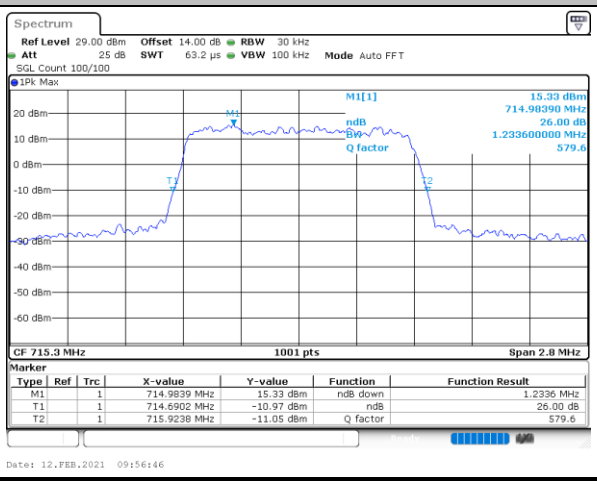
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

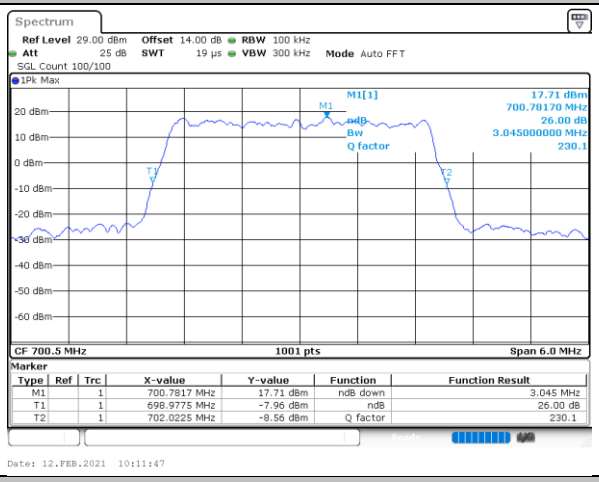


Highest Channel / 1.4MHz / 16QAM

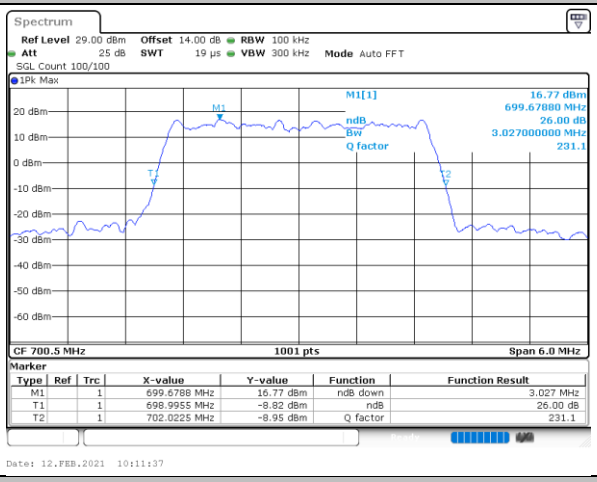


LTE Band 12

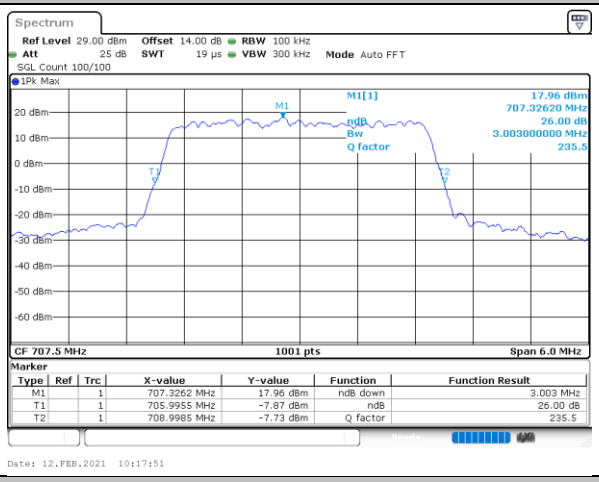
Lowest Channel / 3MHz / QPSK



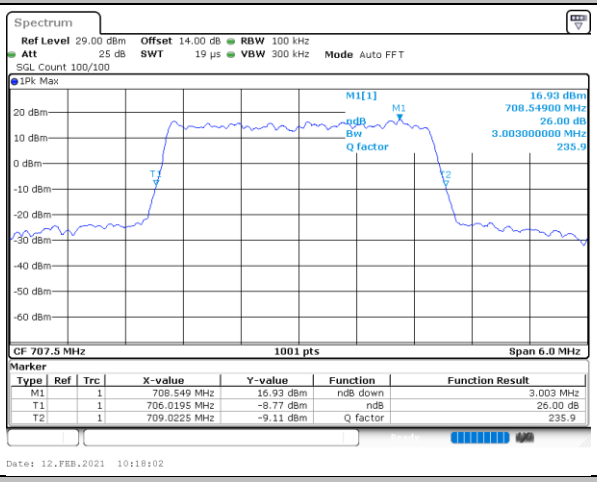
Lowest Channel / 3MHz / 16QAM



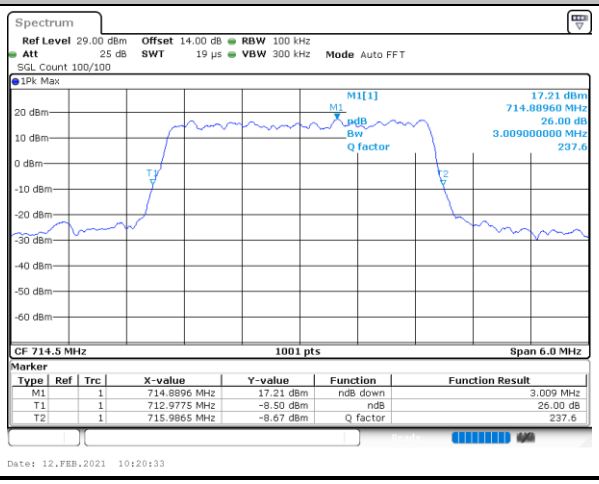
Middle Channel / 3MHz / QPSK



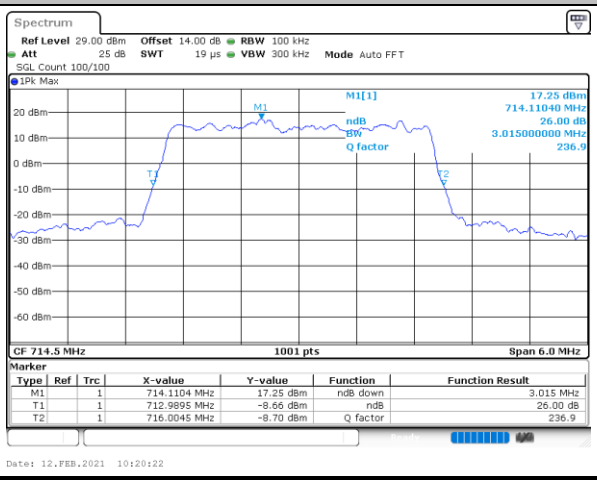
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

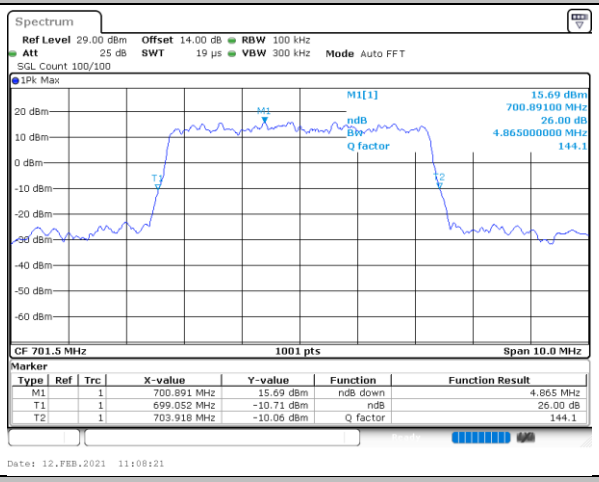


Highest Channel / 3MHz / 16QAM

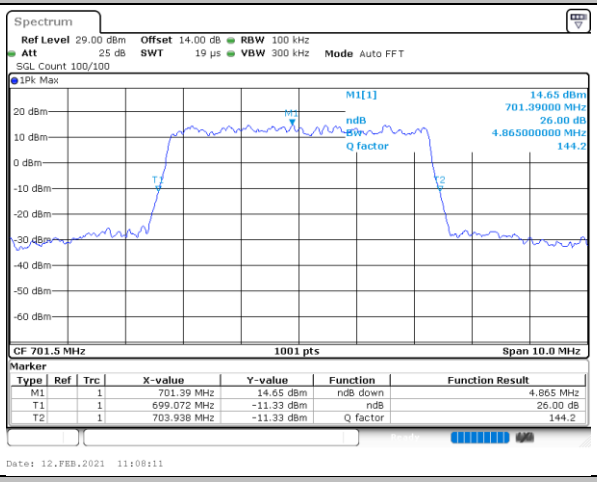


LTE Band 12

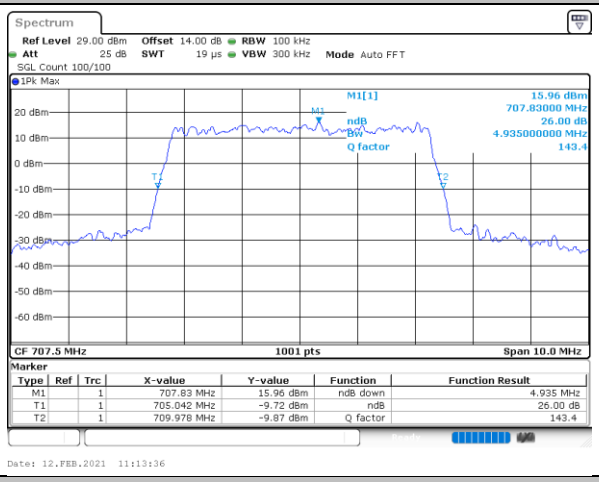
Lowest Channel / 5MHz / QPSK



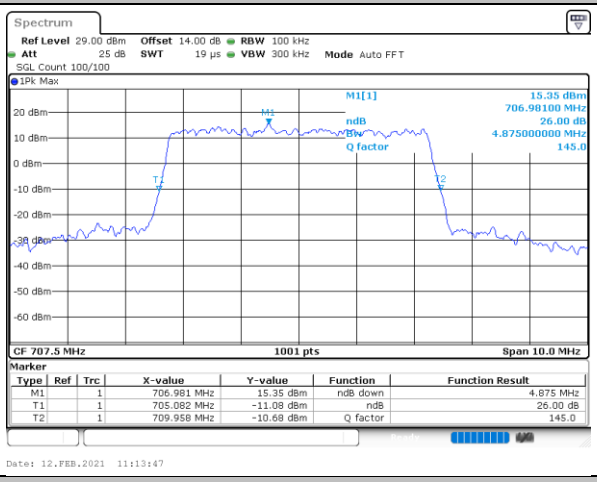
Lowest Channel / 5MHz / 16QAM



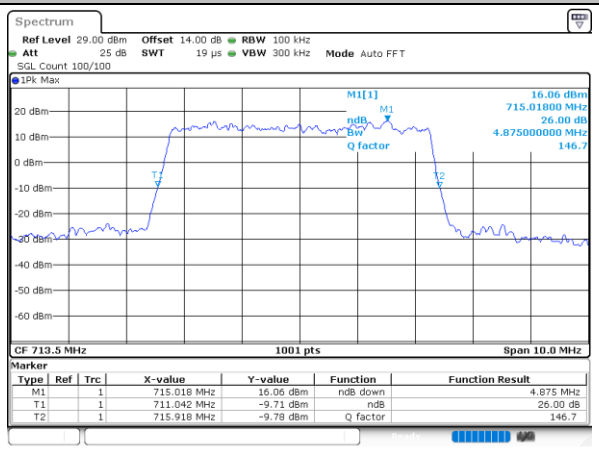
Middle Channel / 5MHz / QPSK



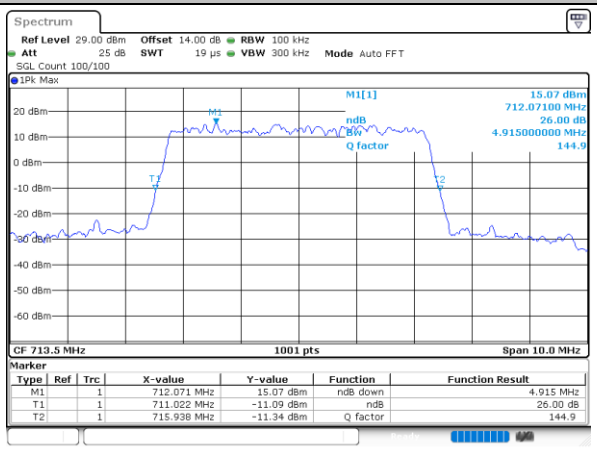
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

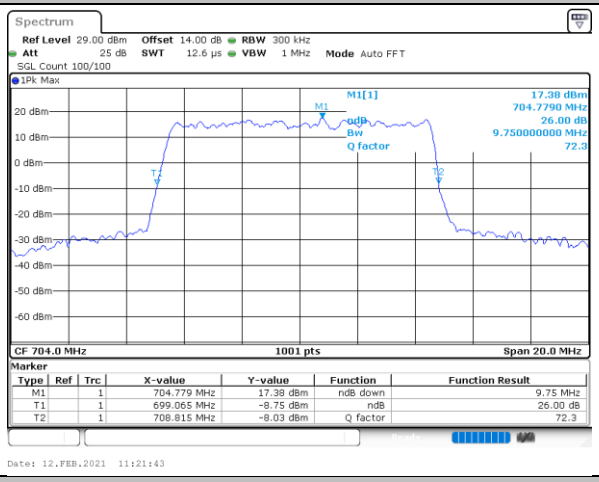


Highest Channel / 5MHz / 16QAM

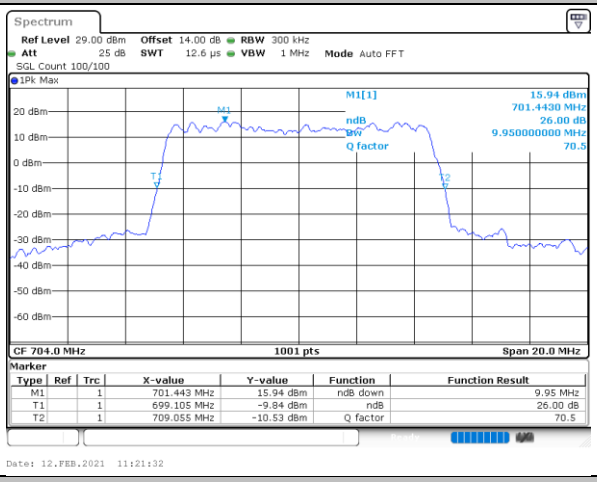


LTE Band 12

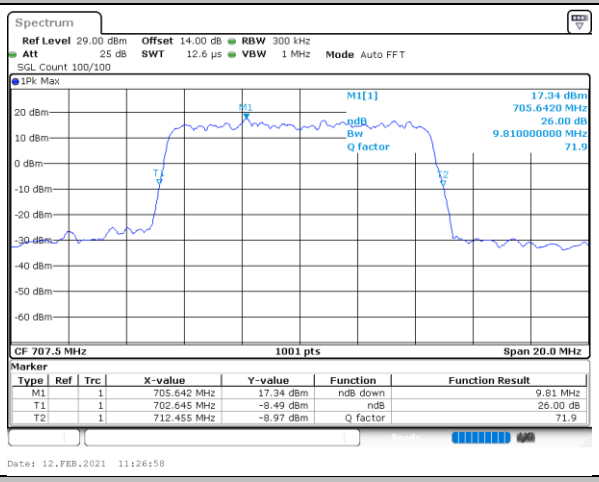
Lowest Channel / 10MHz / QPSK



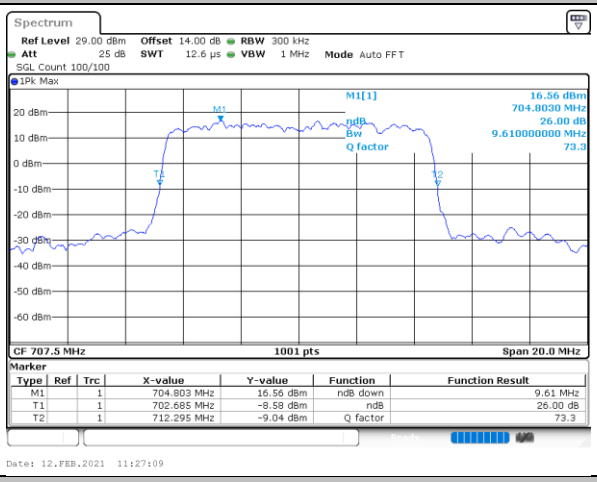
Lowest Channel / 10MHz / 16QAM



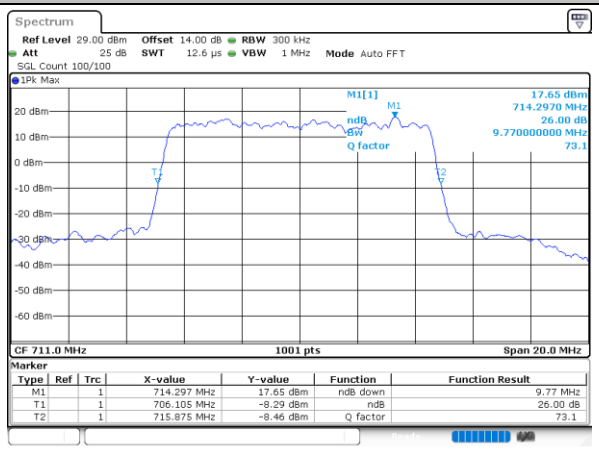
Middle Channel / 10MHz / QPSK



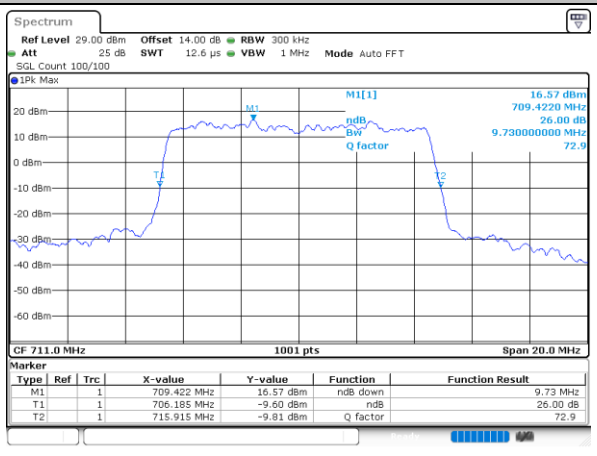
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

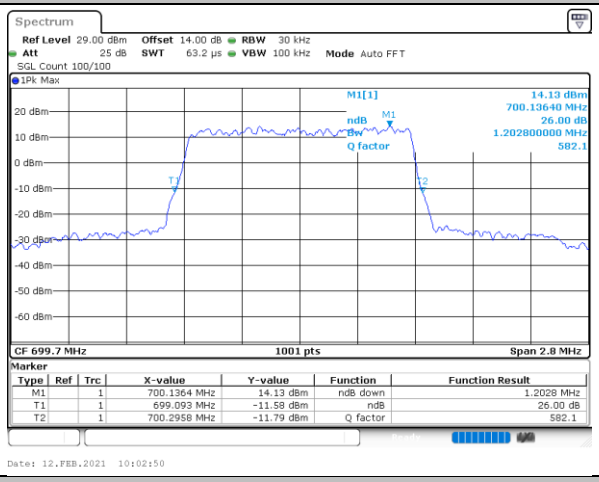


Highest Channel / 10MHz / 16QAM

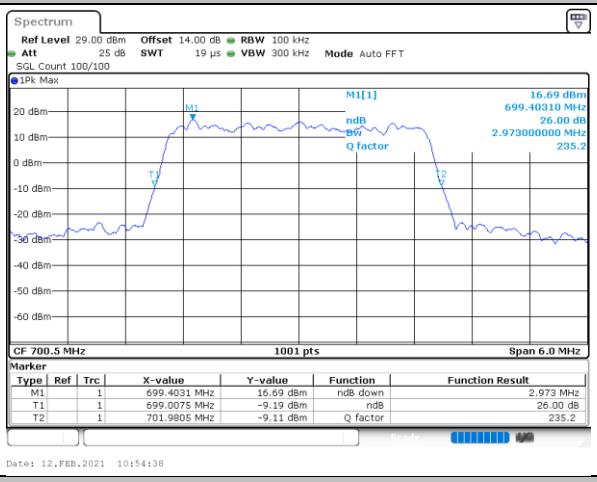


LTE Band 12

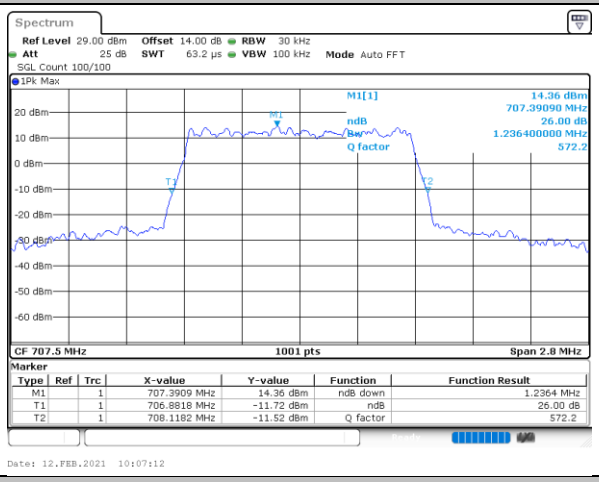
Lowest Channel / 1.4MHz / 64QAM



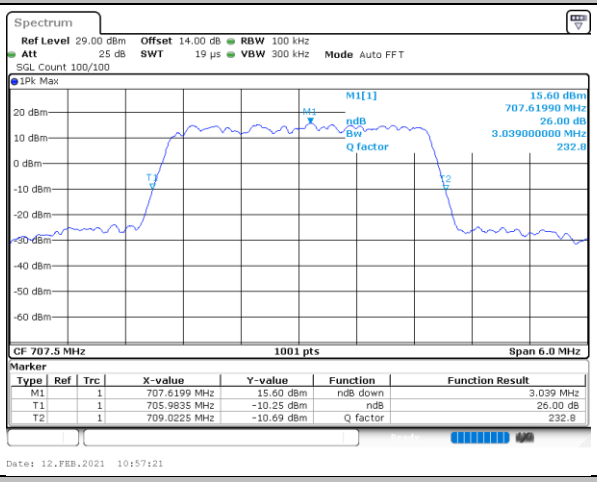
Lowest Channel / 3MHz / 64QAM



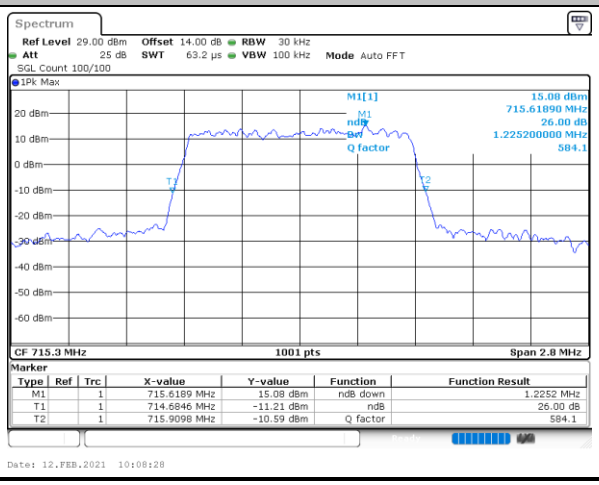
Middle Channel / 1.4MHz / 64QAM



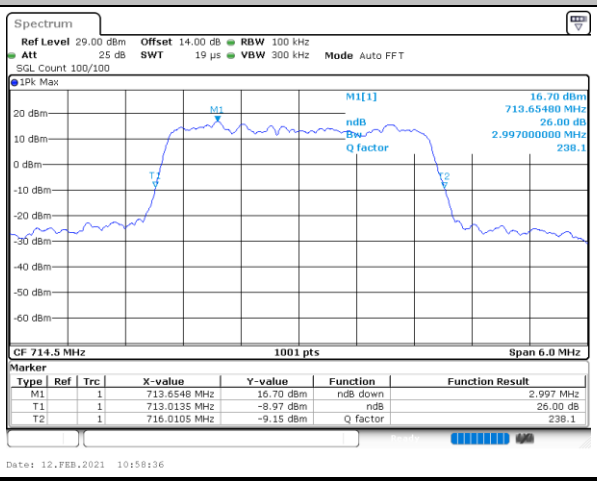
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

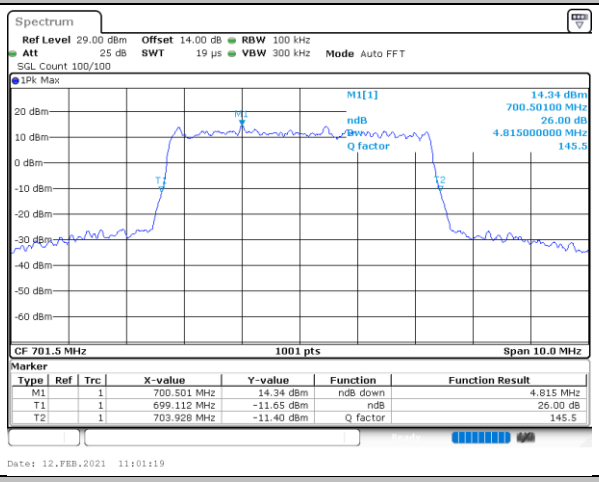


Highest Channel / 3MHz / 64QAM

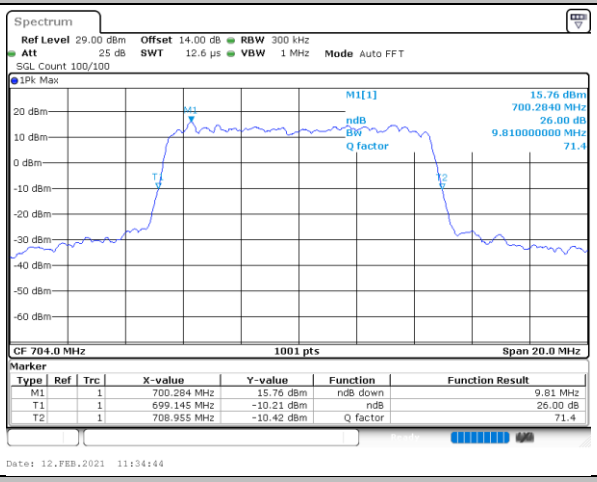


LTE Band 12

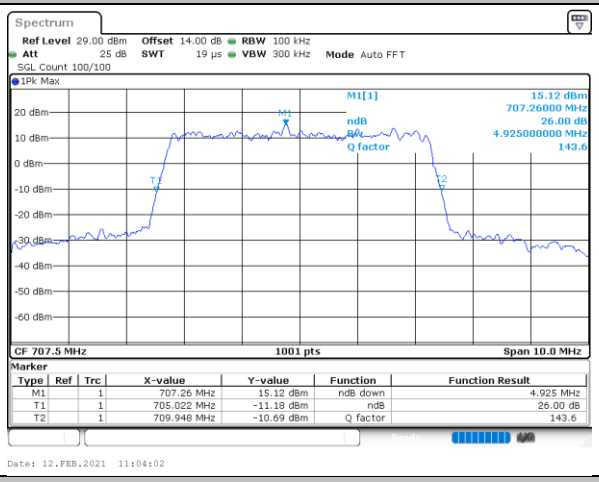
Lowest Channel / 5MHz / 64QAM



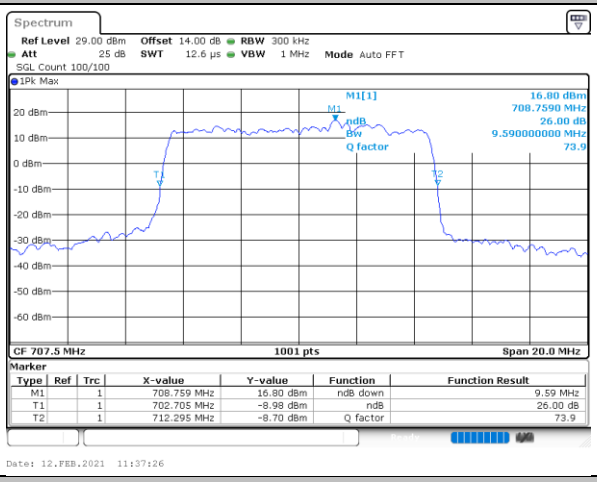
Lowest Channel / 10MHz / 64QAM



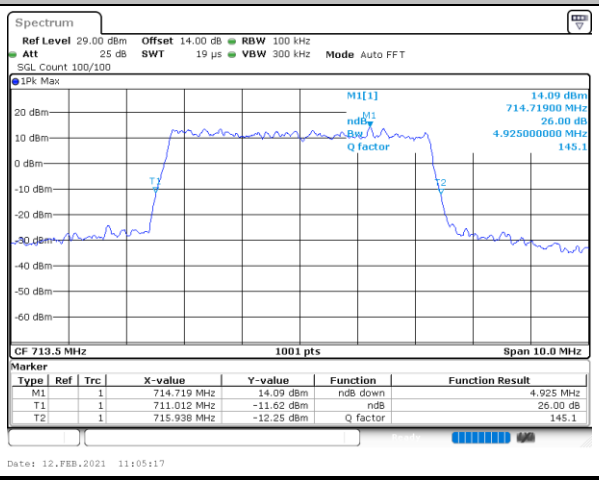
Middle Channel / 5MHz / 64QAM



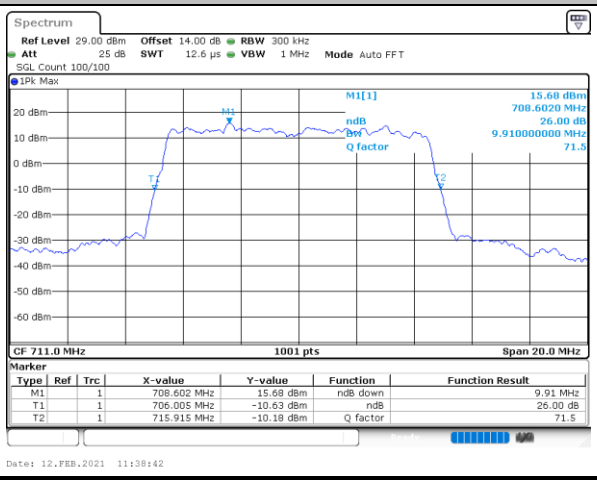
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

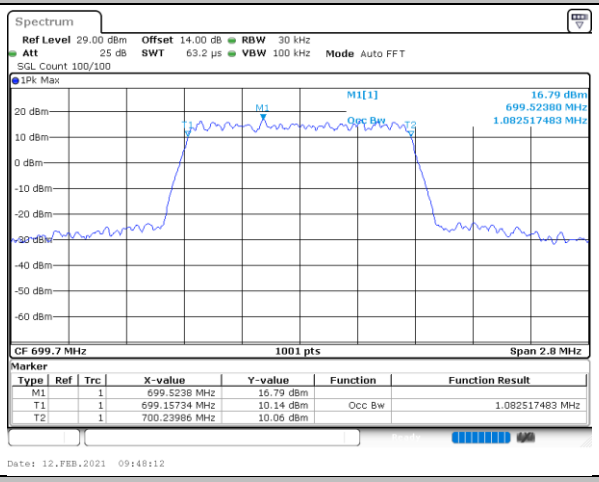


Occupied Bandwidth

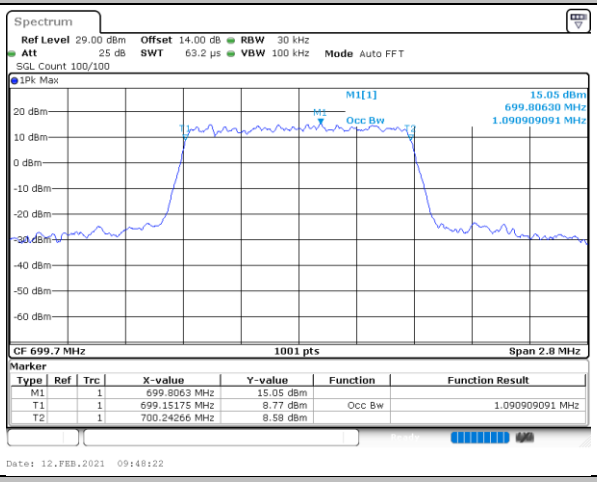
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.72	2.72	4.50	4.50	9.03	8.99	-	-	-	-
Middle CH	1.09	1.09	2.70	2.72	4.49	4.49	9.03	9.01	-	-	-	-
Highest CH	1.09	1.09	2.70	2.73	4.51	4.48	9.03	9.01	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.49	-	8.99	-	-	-	-	-
Middle CH	1.09	-	2.72	-	4.49	-	8.99	-	-	-	-	-
Highest CH	1.09	-	2.72	-	4.51	-	9.03	-	-	-	-	-

LTE Band 12

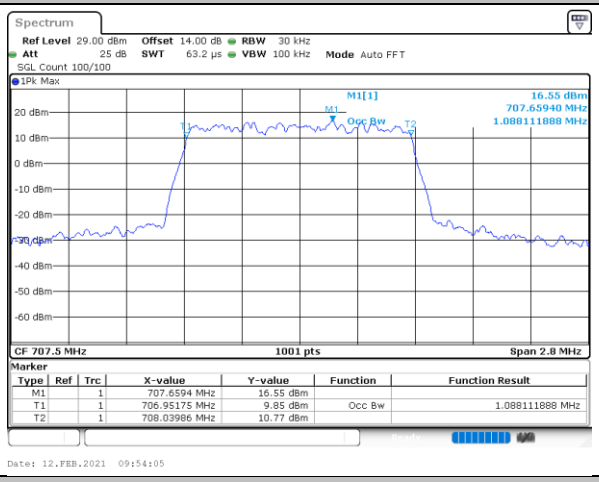
Lowest Channel / 1.4MHz / QPSK



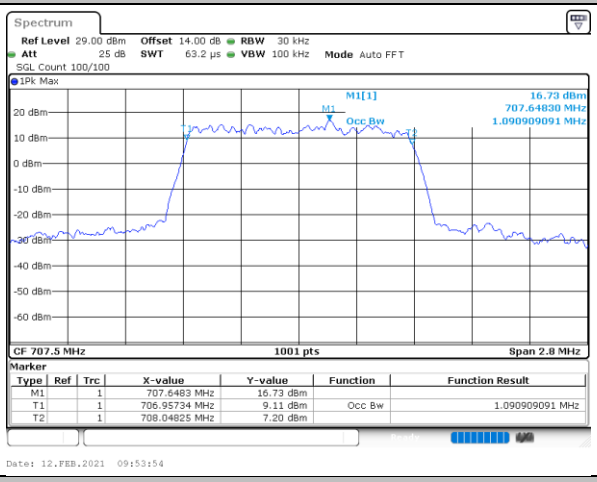
Lowest Channel / 1.4MHz / 16QAM



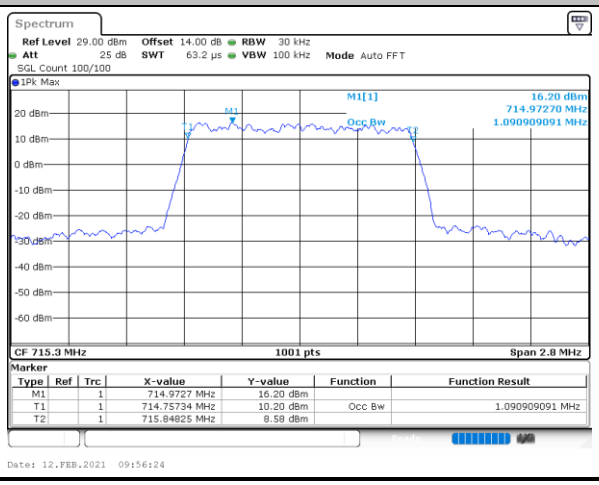
Middle Channel / 1.4MHz / QPSK



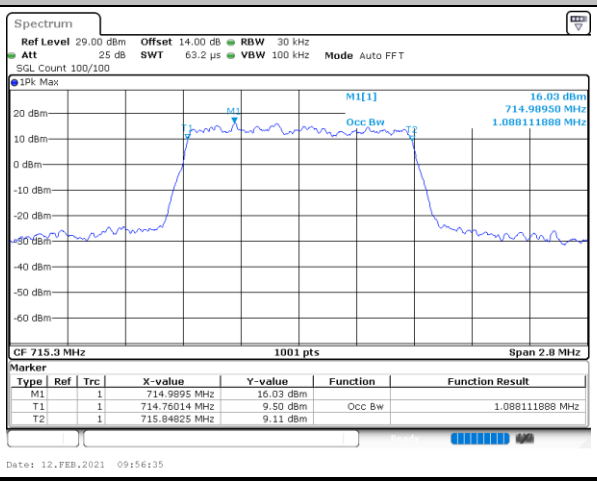
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

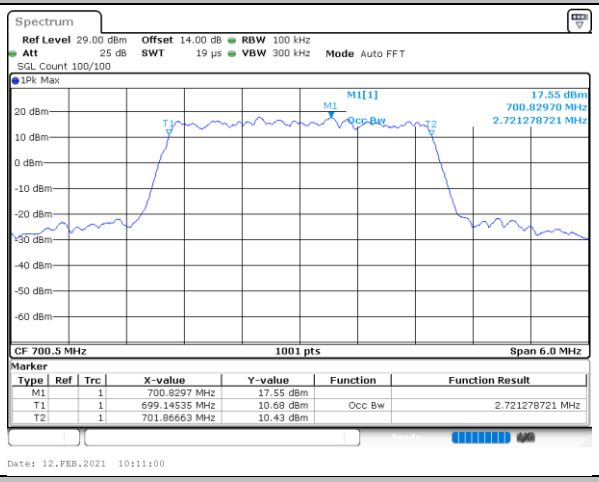


Highest Channel / 1.4MHz / 16QAM

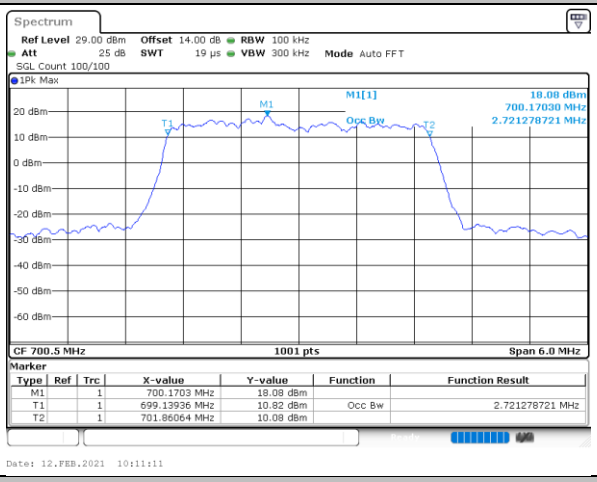


LTE Band 12

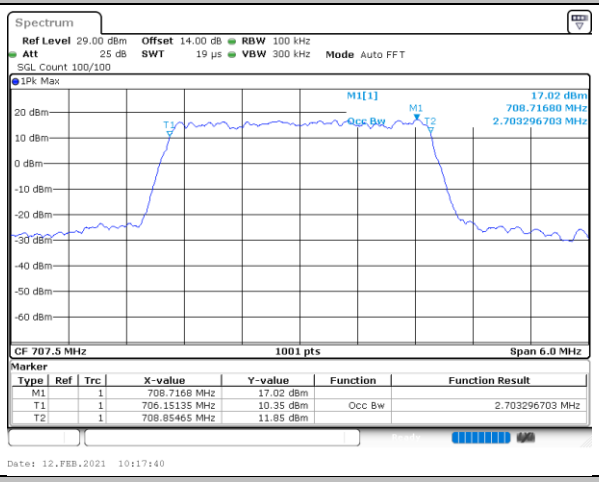
Lowest Channel / 3MHz / QPSK



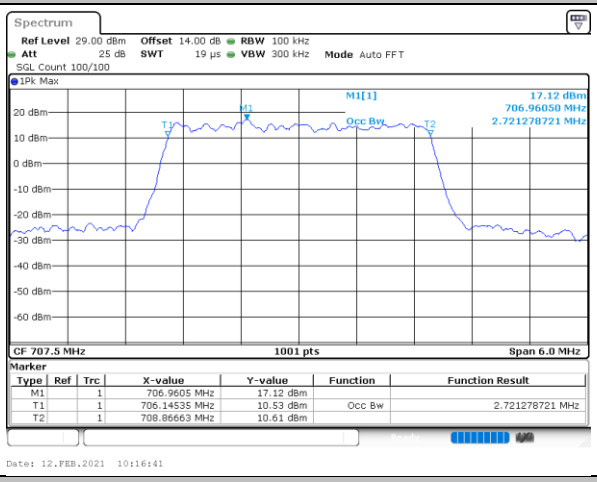
Lowest Channel / 3MHz / 16QAM



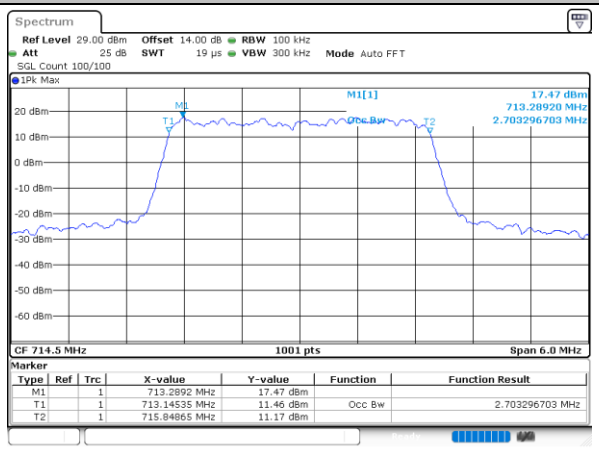
Middle Channel / 3MHz / QPSK



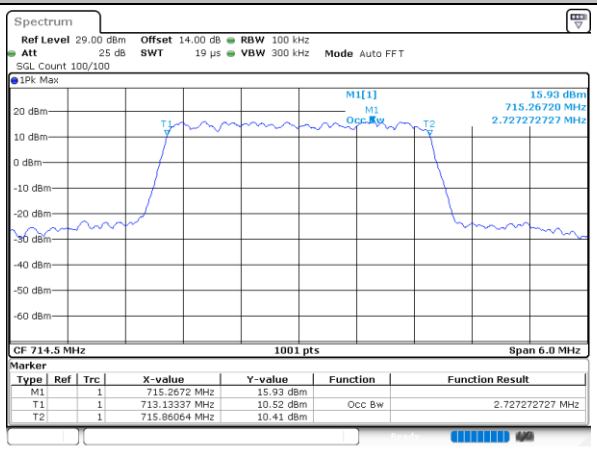
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

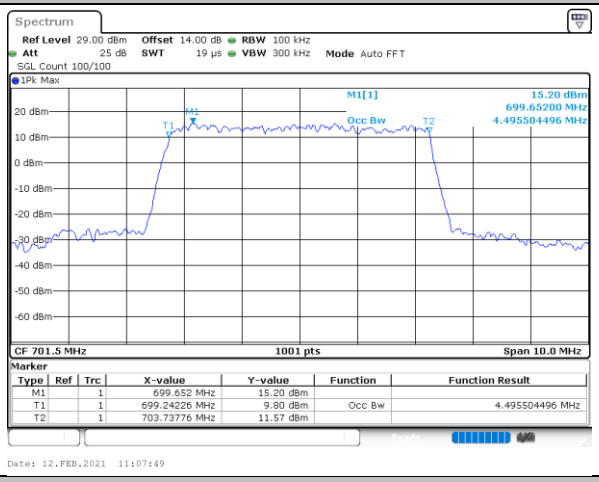


Highest Channel / 3MHz / 16QAM

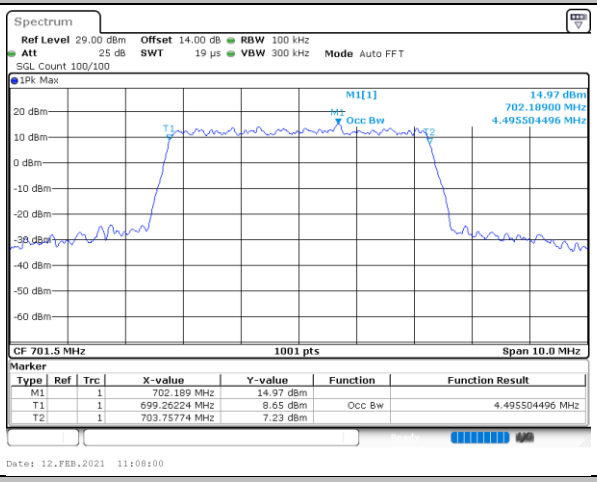


LTE Band 12

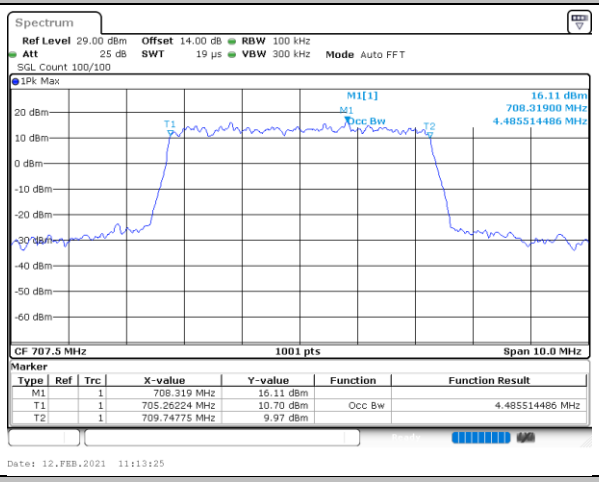
Lowest Channel / 5MHz / QPSK



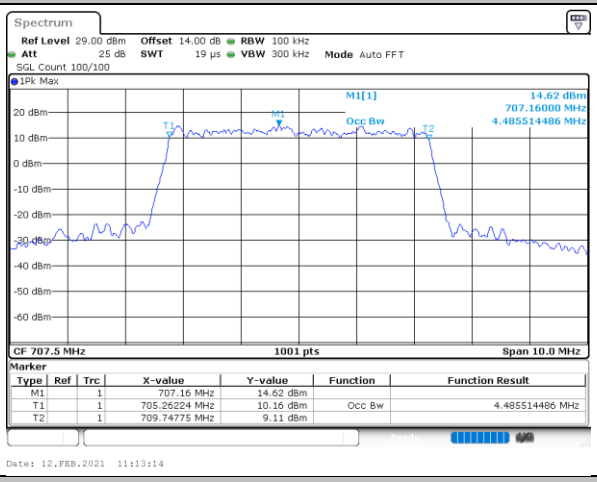
Lowest Channel / 5MHz / 16QAM



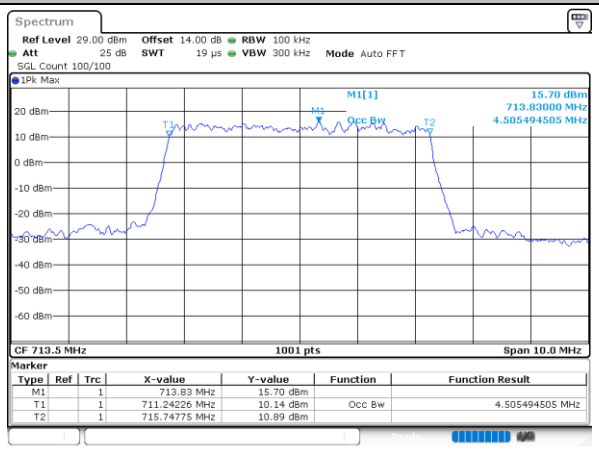
Middle Channel / 5MHz / QPSK



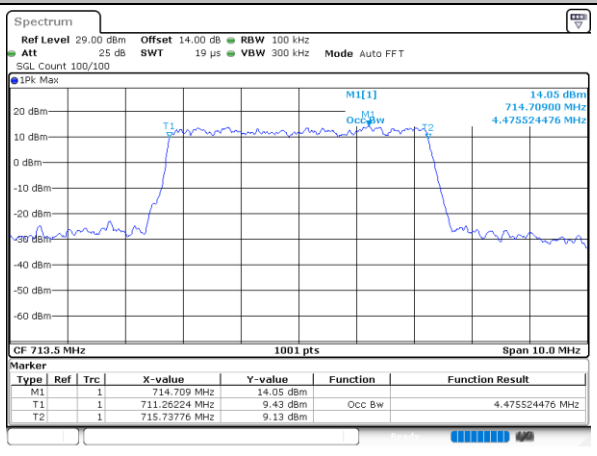
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

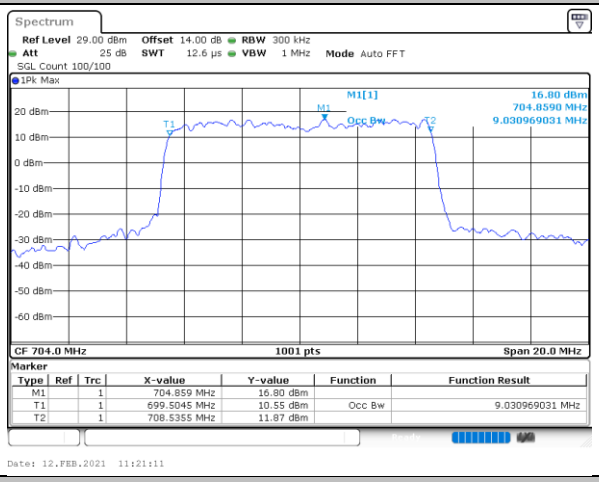


Highest Channel / 5MHz / 16QAM

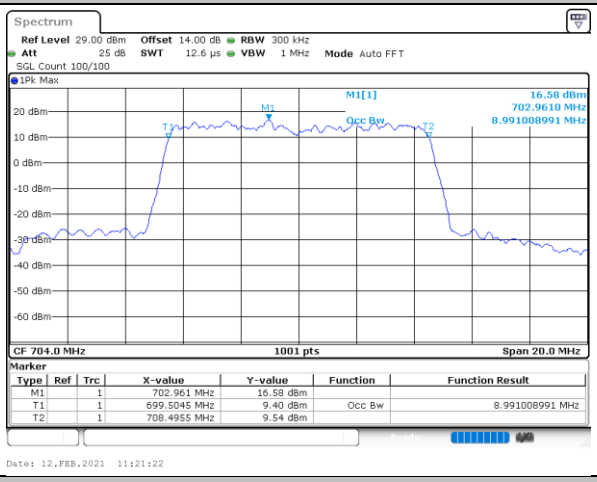


LTE Band 12

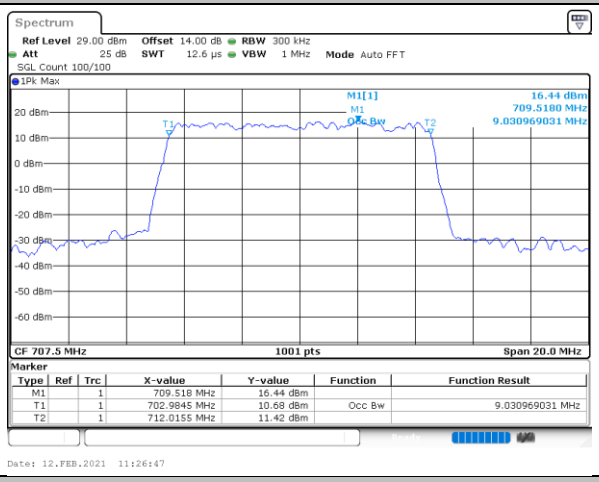
Lowest Channel / 10MHz / QPSK



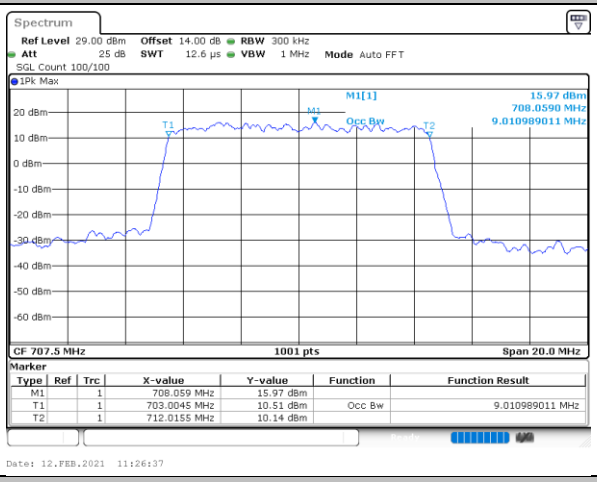
Lowest Channel / 10MHz / 16QAM



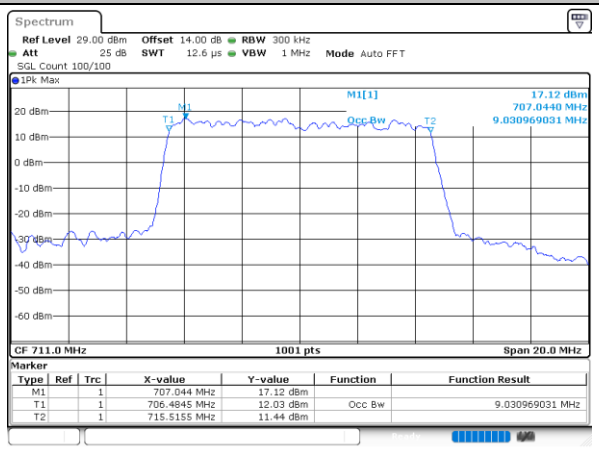
Middle Channel / 10MHz / QPSK



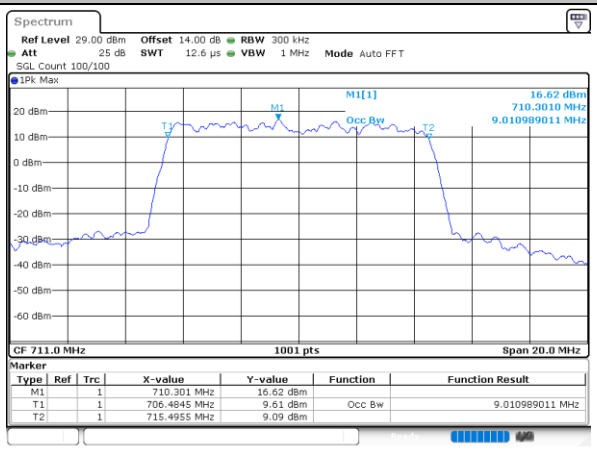
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

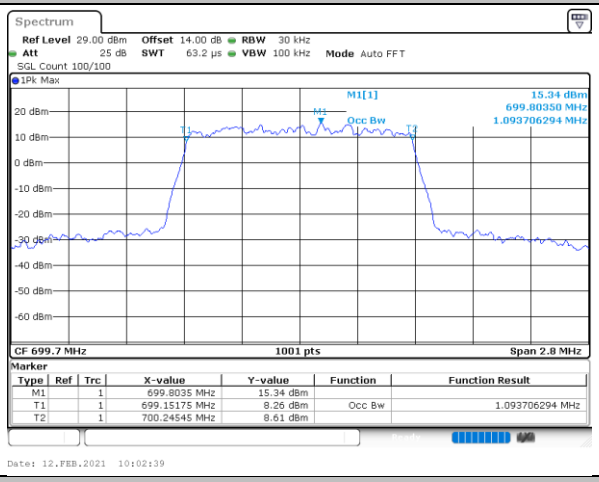


Highest Channel / 10MHz / 16QAM

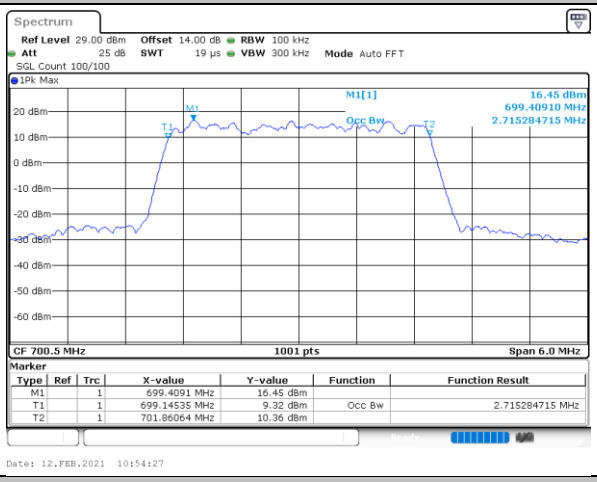


LTE Band 12

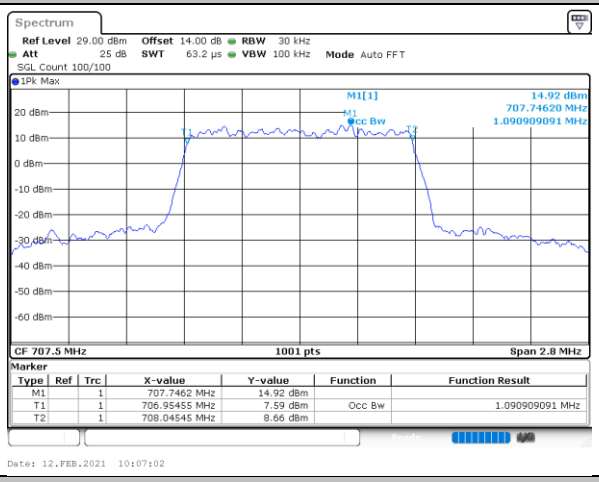
Lowest Channel / 1.4MHz / 64QAM



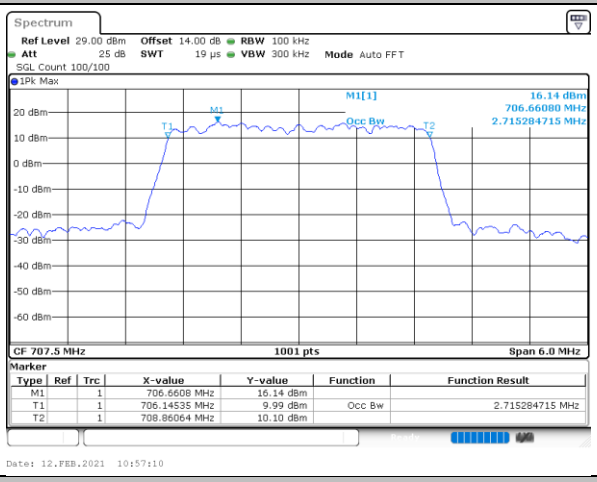
Lowest Channel / 3MHz / 64QAM



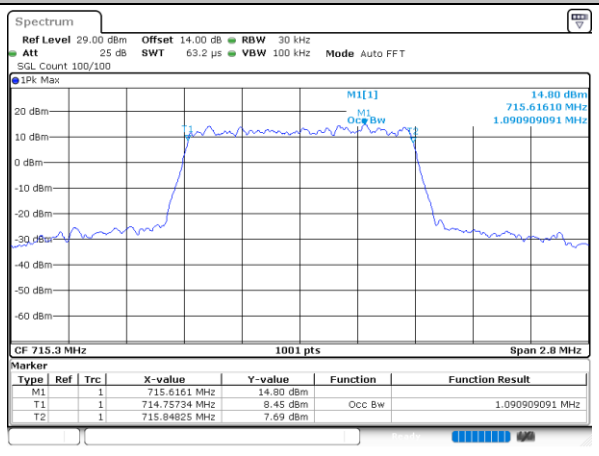
Middle Channel / 1.4MHz / 64QAM



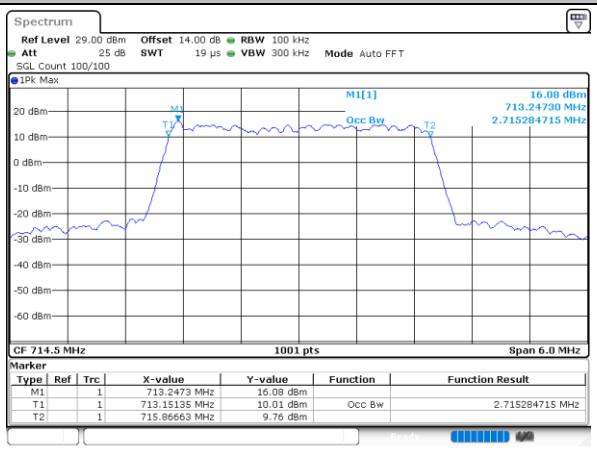
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

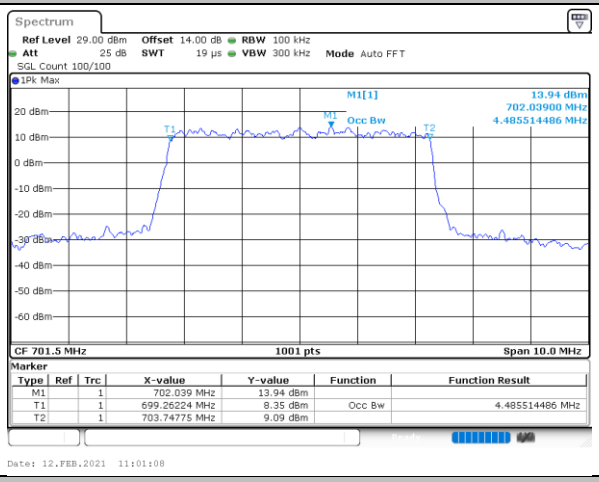


Highest Channel / 3MHz / 64QAM

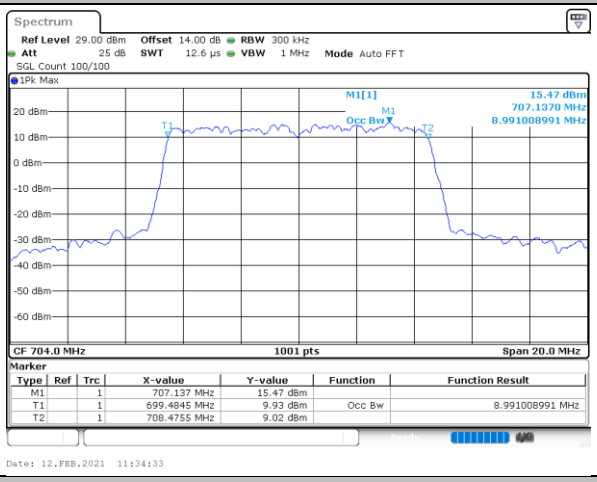


LTE Band 12

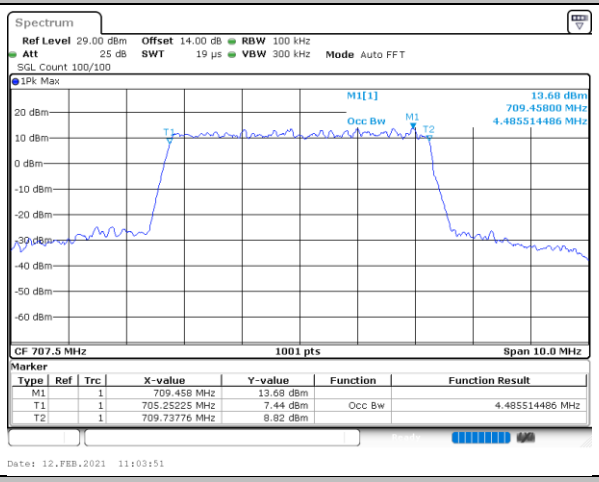
Lowest Channel / 5MHz / 64QAM



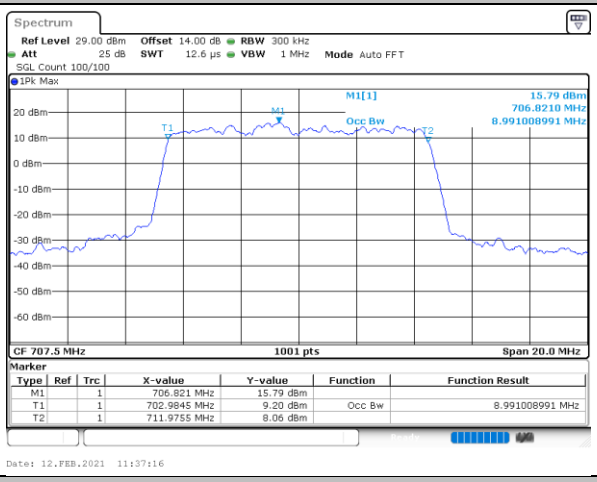
Lowest Channel / 10MHz / 64QAM



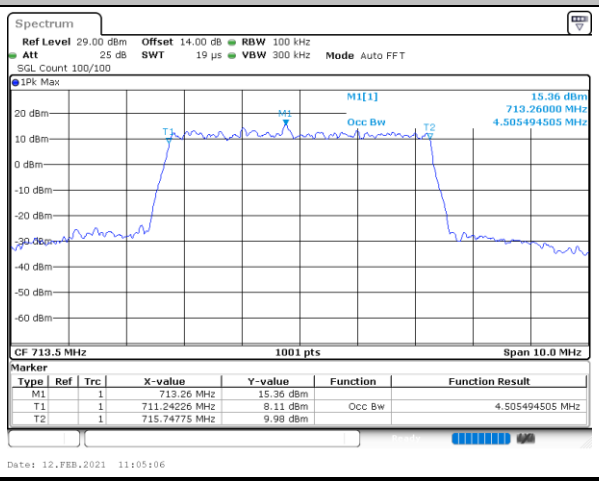
Middle Channel / 5MHz / 64QAM



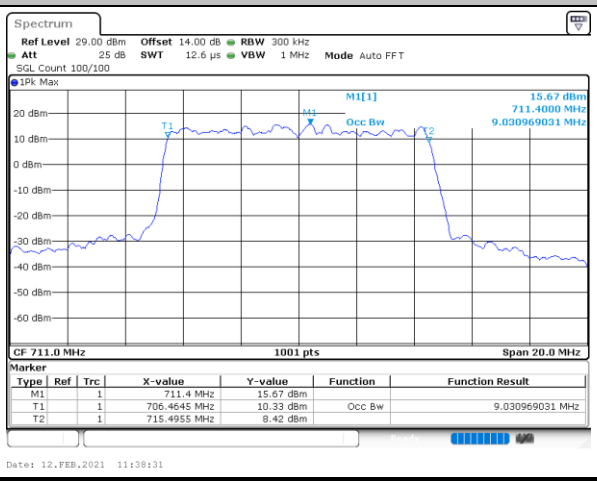
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



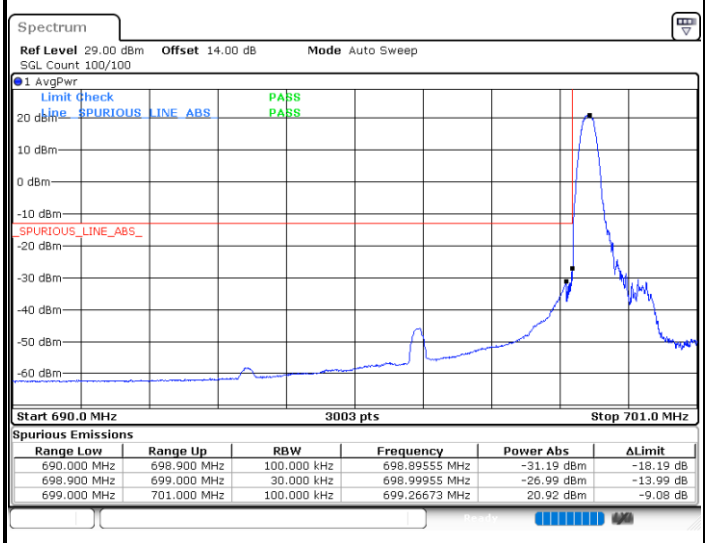
Highest Channel / 10MHz / 64QAM



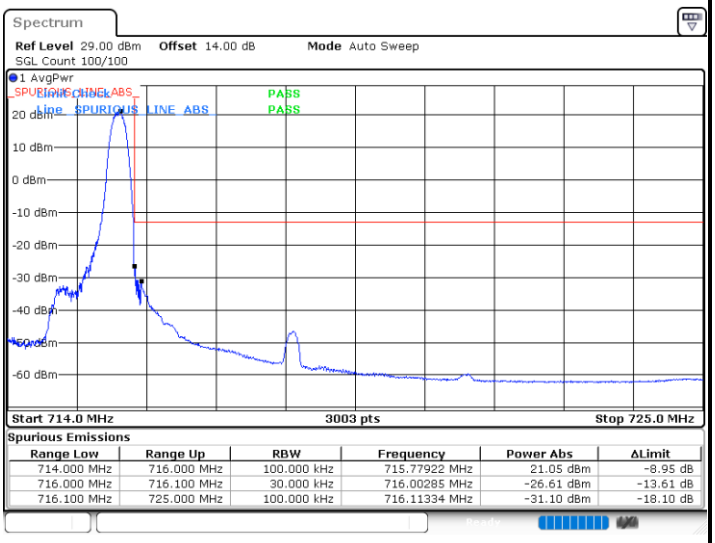
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

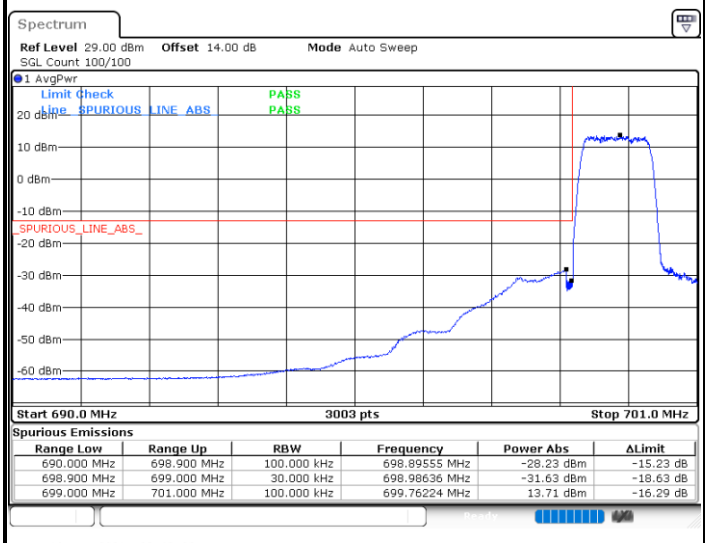
Lowest Band Edge / 1 RB



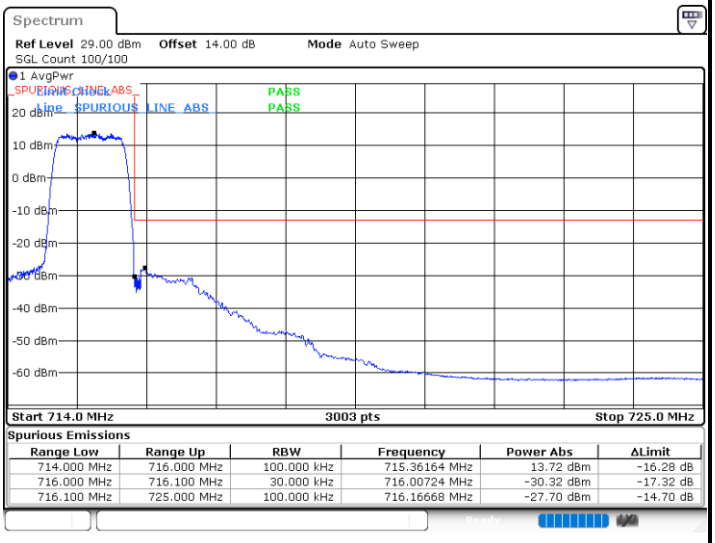
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

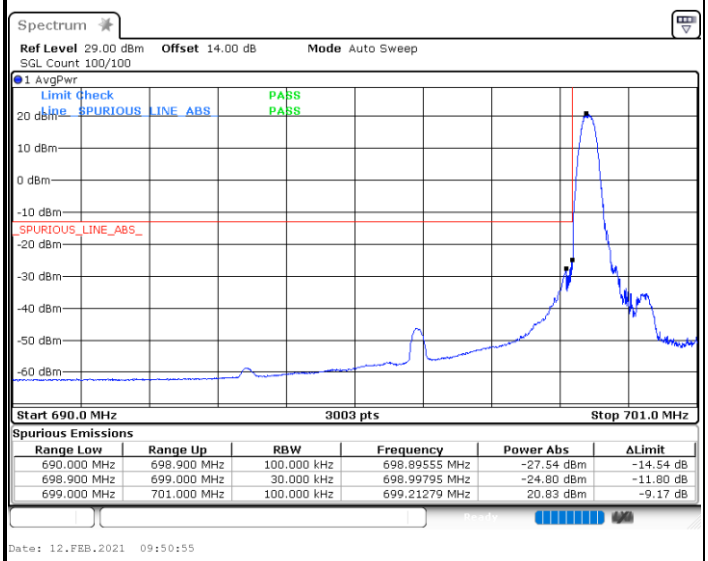


Highest Band Edge / Full RB

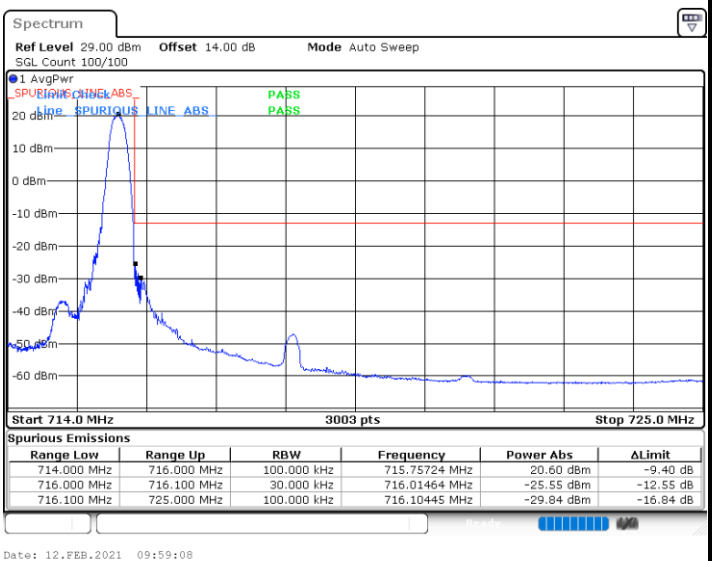


LTE Band 12 / 1.4MHz / 16QAM

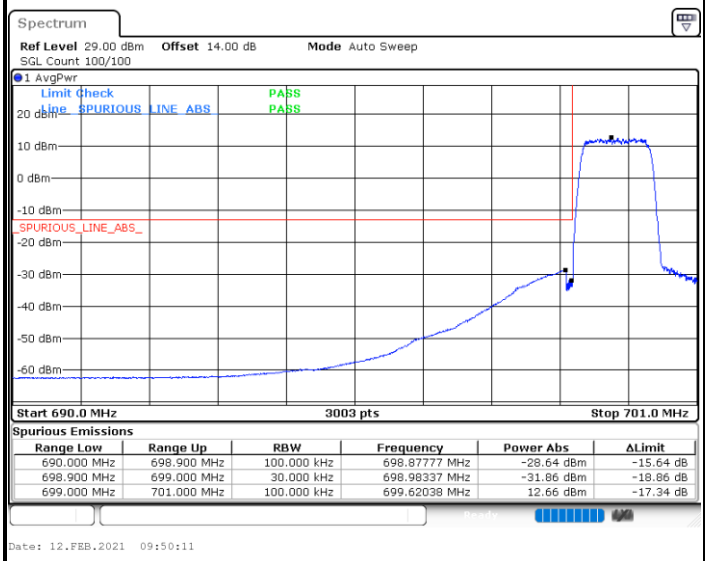
Lowest Band Edge / 1 RB



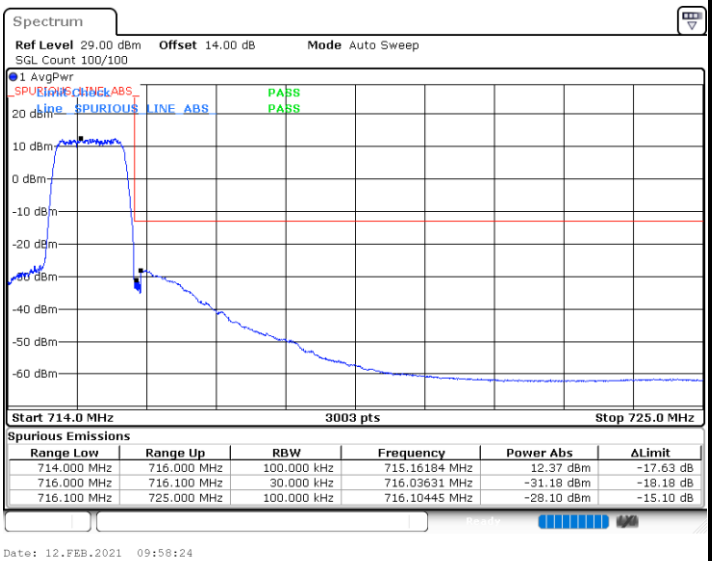
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

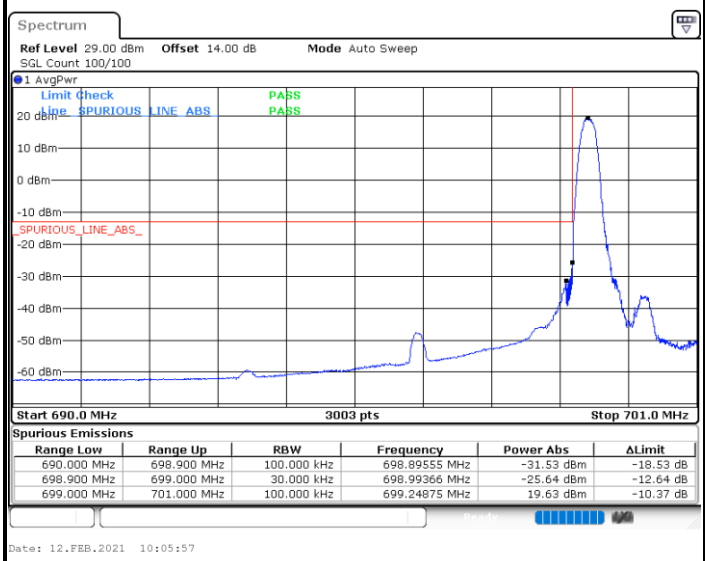


Highest Band Edge / Full RB

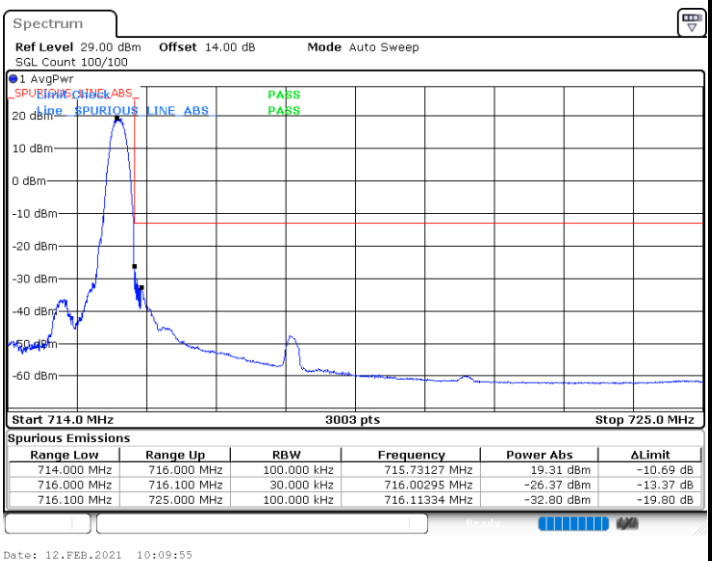


LTE Band 12 / 1.4MHz / 64QAM

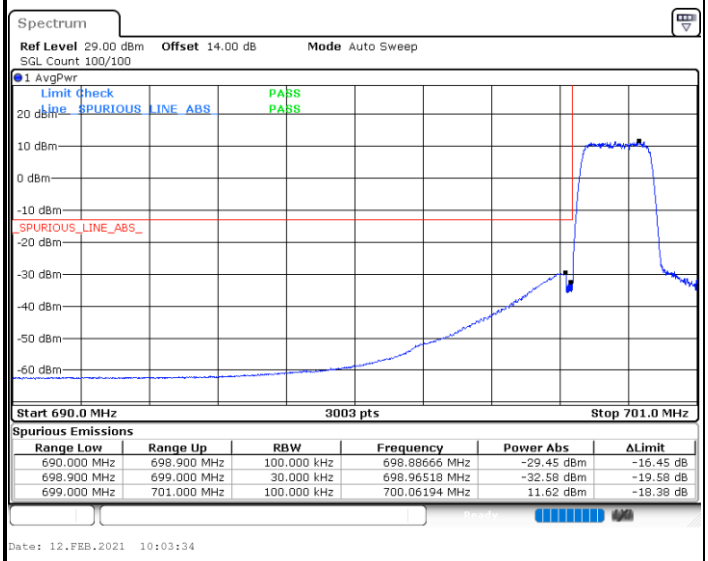
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB