FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2127-2
FCC ID	: IHDT56ZM2
STANDARD	: 47 CFR Part 2, 22(H), 24(E), 27(M)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 20, 2020 and completely tested on Nov. 21, 2020. 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.

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0O2013B	Rev. 01	Initial issue of report	Dec. 08, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)	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)	Conducted Band Edge Measurement (Band 2) (Band 5)(Band 26)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission (Band 2) (Band 5)(Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a)	Radiated Spurious Emission (Band 2) (Band 5) (Band 26)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 21.42 dB at 7752.27 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2127-2
FCC ID	IHDT56ZM2
EUT supports Radios application	GSM/ WCDMA/ LTE/NFC 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 and GNSS
IMEI Code	Conducted: 351546360021916 Radiation: 351546360021890/351546360021908
HW Version	DVT2
SW Version	RRB31.30
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.09 dBm LTE Band 5 : 23.25 dBm LTE Band 7 : 23.29 dBm LTE Band 26 : 23.15 dBm LTE Band 38 : 23.24 dBm LTE Band 41 : 23.23 dBm;
Antenna Gain	LTE Band 2 : -2.60 dBi LTE Band 5 : -2.80 dBi LTE Band 7 : -2.40 dBi LTE Band 26 : -2.70 dBi LTE Band 38 : -2.50 dBi LTE Band 41 : -2.50 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

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

LTE Band 2		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.1021	1M09W7D	-	0.0838
3	1851.5 ~ 1908.5	2M73G7D	-	0.1014	2M72W7D	-	0.0778
5	1852.5 ~ 1907.5	4M50G7D	-	0.1047	4M50W7D	-	0.0787
10	1855.0 ~ 1905.0	9M01G7D	0.0021	0.1084	9M01W7D	-	0.0920
15	1857.5 ~ 1902.5	13M5G7D	-	0.1114	13M5W7D	-	0.0818
20	1860.0 ~ 1900.0	17M8G7D	-	0.1119	17M9W7D	-	0.0828

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	-	0.0711
3	1851.5 ~ 1908.5	2M73W7D	-	0.0640
5	1852.5 ~ 1907.5	4M52W7D	-	0.0693
10	1855.0 ~ 1905.0	9M05W7D	-	0.0690
15	1857.5 ~ 1902.5	13M5W7D	-	0.0746
20	1860.0 ~ 1900.0	17M9W7D	-	0.0713

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	-	0.0646	1M10W7D	-	0.0500
3	825.5 ~ 847.5	2M72G7D	-	0.0647	2M72W7D	-	0.0540
5	826.5 ~ 846.5	4M49G7D	-	0.0675	4M49W7D	-	0.0542
10	829.0 ~ 844.0	9M07G7D	0.0029	0.0647	9M01W7D	-	0.0527

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	1M10W7D	-	0.0423
3	825.5 ~ 847.5	2M74W7D	-	0.0426
5	826.5 ~ 846.5	4M50W7D	-	0.0450
10	829.0 ~ 844.0	9M05W7D	-	0.0440

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	-	0.0646	1M10W7D	-	0.0500
3	825.5 ~ 847.5	2M72G7D	-	0.0647	2M72W7D	-	0.0540
5	826.5 ~ 846.5	4M49G7D	-	0.0675	4M49W7D	-	0.0542
10	829.0 ~ 844.0	9M07G7D	0.0029	0.0647	9M01W7D	-	0.0527
15	831.5 ~ 841.5	13M4G7D	-	0.0676	13M4W7D	-	0.0550
CH26765	821.5	13M4G7D	-	0.0668	13M4W7D	-	0.0545

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	1M10W7D	-	0.0423
3	825.5 ~ 847.5	2M74W7D	-	0.0426
5	826.5 ~ 846.5	4M50W7D	-	0.0450
10	829.0 ~ 844.0	9M05W7D	-	0.0440
15	831.5 ~ 841.5	13M5W7D	-	0.0457
CH26765	821.5	13M4W7D	-	0.0457

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M50G7D	-	0.1199	4M50W7D	-	0.0953
10	2505.0 ~ 2565.0	9M11G7D	0.0011	0.1225	9M01W7D	-	0.1026
15	2507.5 ~ 2562.5	13M5G7D	-	0.1225	13M4W7D	-	0.1074
20	2510.0 ~ 2560.0	17M9G7D	-	0.1227	17M9W7D	-	0.0959

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M49W7D	-	0.0838
10	2505.0 ~ 2565.0	9M01W7D	-	0.0869
15	2507.5 ~ 2562.5	13M4W7D	-	0.0859
20	2510.0 ~ 2560.0	17M9W7D	-	0.0849

LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M49G7D	-	0.1127	4M50W7D	-	0.0804
10	2575.0 ~ 2615.0	9M03G7D	0.0019	0.1132	9M05W7D	-	0.0851
15	2577.5 ~ 2612.5	13M4G7D	-	0.1183	13M4W7D	-	0.0820
20	2580.0 ~ 2610.0	17M9G7D	-	0.1094	17M8W7D	-	0.0863

LTE Band 38		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M52W7D	-	0.0745
10	2575.0 ~ 2615.0	9M03W7D	-	0.0673
15	2577.5 ~ 2612.5	13M4W7D	-	0.0760
20	2580.0 ~ 2610.0	17M9W7D	-	0.0697

LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M49G7D	-	0.1127	4M50W7D	-	0.0804
10	2501.0 ~ 2685.0	9M03G7D	0.0019	0.1132	9M05W7D	-	0.0851
15	2503.5 ~ 2682.5	13M4G7D	-	0.1183	13M4W7D	-	0.0820
20	2506.0 ~ 2680.0	17M9G7D	-	0.1094	17M8W7D	-	0.0863

LTE Band 41		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M52W7D	-	0.0745
10	2501.0 ~ 2685.0	9M03W7D	-	0.0673
15	2503.5 ~ 2682.5	13M4W7D	-	0.0760
20	2506.0 ~ 2680.0	17M9W7D	-	0.0697

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 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

1.7 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-101
AC Adapter 1(EU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-102
AC Adapter 1(UK)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-103
AC Adapter 1(AU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-105
AC Adapter 2(US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-101
AC Adapter 2(EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-102
AC Adapter 2(UK)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-103
AC Adapter 2(AU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-105
AC Adapter 3(US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-101
AC Adapter 3(EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-102
Battery	**Brand Name**	Motorola (Sunwoda)	**Model Name**	JK50
Earphone 1	**Brand Name**	Motorola (New Leader)	**Model Name**	EM301K-11SF
Earphone 2	**Brand Name**	Motorola (Juwei)	**Model Name**	JWEP1182-T03H
Earphone 3	**Brand Name**	Motorola (New Leader)	**Model Name**	NLD-EM313A-11SF
Earphone 4	**Brand Name**	Motorola (LIANYUN)	**Model Name**	SH38C81577
Earphone 5	**Brand Name**	Motorola (Lianchuang)	**Model Name**	SH38C81576
USB Cable 1	**Brand Name**	Motorola (Chuangyitong)	**Model Name**	88806-025
USB Cable 2	**Brand Name**	Motorola (Yihuaxing)	**Model Name**	T365-011B

1.8 Testing Location

<FCC>-SZ

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	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

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(M)
- 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
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v	v		v	v	v	v
	7	-	-				v	v	v	v	v		v	v	v	v
	26					v	-	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v

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

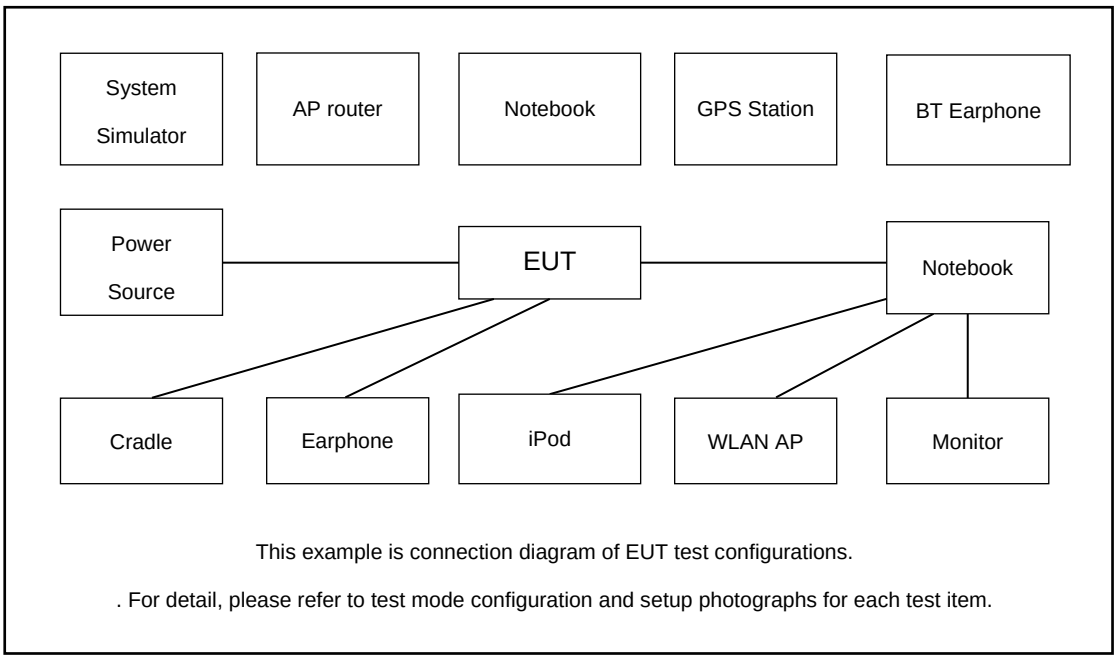
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	7	-	-		v			v					v		v	
	26				v		-	v					v		v	
	41	-	-		v			v					v		v	

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	7	Worst Case													v	
	26	Worst Case													v	
	41	Worst Case													v	

Note

1. The mark "**v** " means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
5. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
3.	Fixture	INTEL	NGFF Card Carrier	N/A	N/A	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 5.0 dB and 10dB attenuator.

Example :

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

= 5.0 + 10 = 15.0 (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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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

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

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

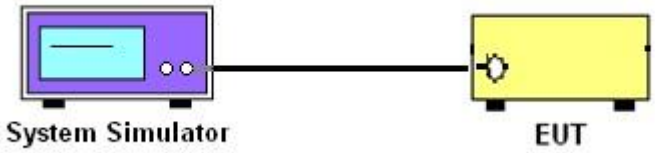
3 Conducted Test Items

3.1 Measuring Instruments

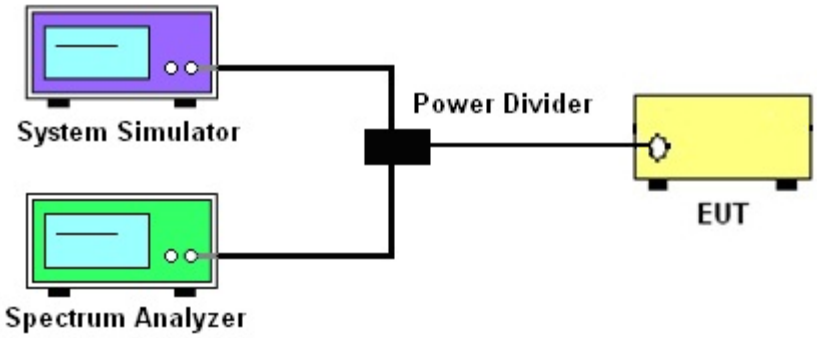
See list of measuring instruments of this test report.

3.2 Test Setup

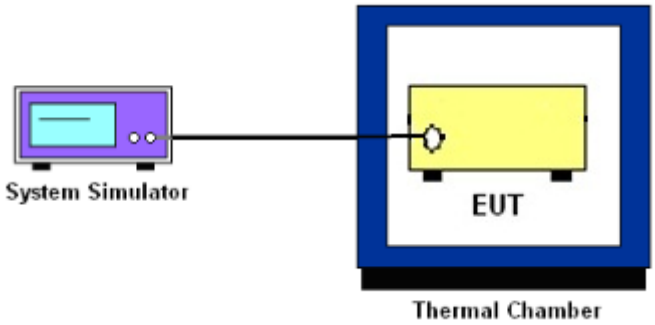
3.2.1 Conducted Output Power



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

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 + 10log$_{10}$(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 + 10log$_{10}$(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(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor =10 log (1/x), where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
10. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB + 10log(P)dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 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. Offset has included the duty factor for LTE Band 38/41. Duty factor =10 log (1/x), where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
12. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

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.

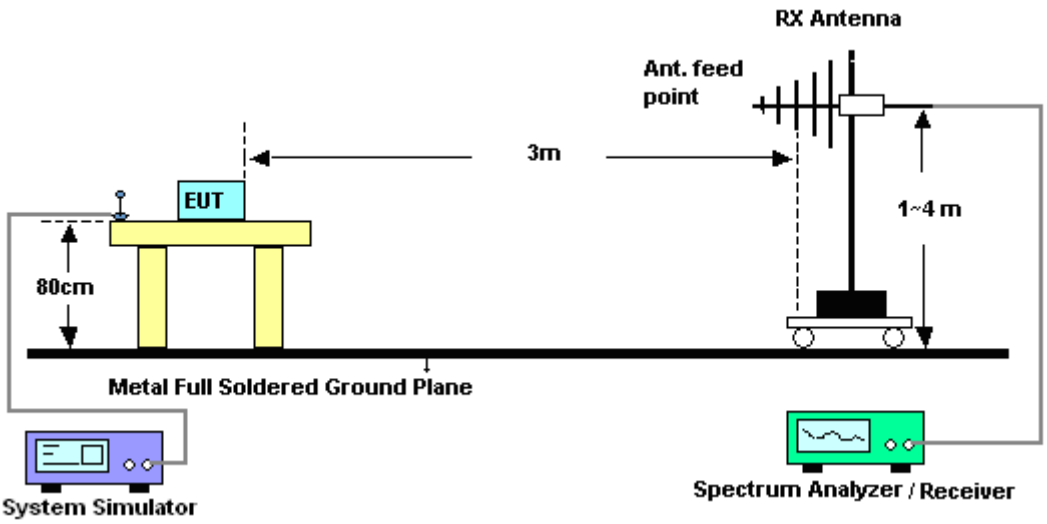
4 Radiated Test Items

4.1 Measuring Instruments

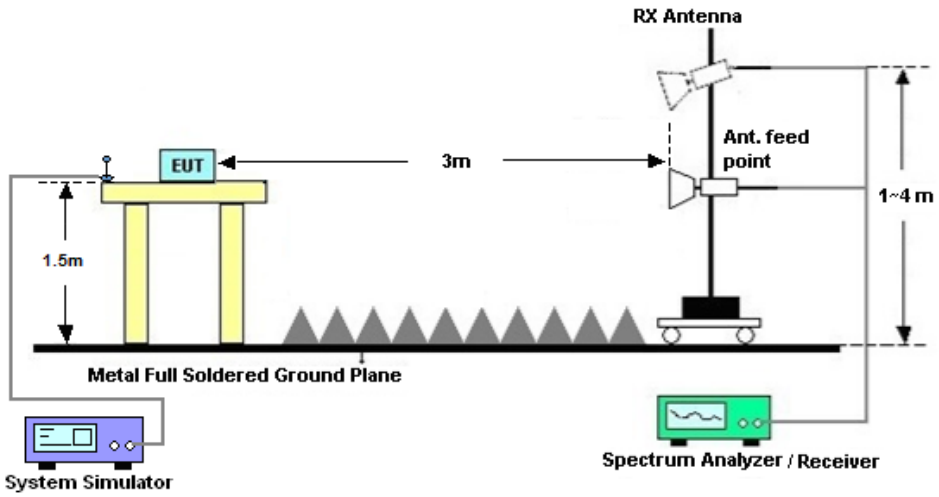
See list of measuring instruments of this test report.

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 Band 7, 38, 41

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

4.4.2 Test Procedures

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.
13. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Nov. 13, 2020~ Nov. 18, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Nov. 13, 2020~ Nov. 18, 2020	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 16, 2020	Nov. 21, 2020	Oct. 15, 2021	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Nov. 21, 2020	Jul. 20, 2021	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Nov. 07, 2020	Nov. 21, 2020	Nov. 06, 2021	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	May. 23, 2020	Nov. 21, 2020	Mar. 22, 2021	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 26, 2020	Nov. 21, 2020	Jul. 25, 2021	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 16, 2020	Nov. 21, 2020	Oct. 15, 2021	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 17, 2020	Nov. 21, 2020	Oct. 16, 2021	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Nov. 21, 2020	Jul. 20, 2021	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 17, 2020	Nov. 21, 2020	Oct. 16, 2021	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Nov. 21, 2020	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 21, 2020	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 21, 2020	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	22.52	22.65	22.37
20	QPSK	1	49	23.03	**23.09**	23.01
20	QPSK	1	99	22.59	22.51	22.56
20	QPSK	50	0	21.86	21.90	21.88
20	QPSK	50	24	21.84	21.83	21.84
20	QPSK	50	50	21.76	21.84	21.86
20	QPSK	100	0	21.86	21.89	21.88
20	16QAM	1	0	21.78	21.57	21.48
20	16QAM	1	49	21.55	21.69	21.67
20	16QAM	1	99	21.55	21.58	21.61
20	16QAM	50	0	20.75	20.69	20.87
20	16QAM	50	24	20.78	20.77	20.92
20	16QAM	50	50	20.71	20.55	20.80
20	16QAM	100	0	20.79	20.72	20.78
20	64QAM	1	0	20.72	20.24	20.73
20	64QAM	1	49	21.07	21.05	21.13
20	64QAM	1	99	20.65	20.70	20.64
20	64QAM	50	0	19.88	19.78	19.85
20	64QAM	50	24	19.80	19.83	19.95
20	64QAM	50	50	19.72	19.74	19.81
20	64QAM	100	0	19.83	19.72	19.86

Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.47	22.79	22.81
15	QPSK	1	37	22.75	22.83	23.07
15	QPSK	1	74	22.63	22.78	22.78
15	QPSK	36	0	21.68	21.79	21.87
15	QPSK	36	20	21.64	21.74	21.85
15	QPSK	36	39	21.75	21.83	21.75
15	QPSK	75	0	21.67	21.84	21.83
15	16QAM	1	0	21.63	21.38	21.70
15	16QAM	1	37	21.48	21.56	21.73
15	16QAM	1	74	21.43	21.33	21.61
15	16QAM	36	0	20.67	20.57	20.71
15	16QAM	36	20	20.61	20.73	20.68
15	16QAM	36	39	20.68	20.63	20.79
15	16QAM	75	0	20.61	20.73	20.81
15	64QAM	1	0	20.77	20.76	20.78
15	64QAM	1	37	21.08	21.18	21.33
15	64QAM	1	74	20.69	20.68	20.75
15	64QAM	36	0	19.83	19.75	19.91
15	64QAM	36	20	19.77	19.84	20.02
15	64QAM	36	39	19.86	19.72	19.82
15	64QAM	75	0	19.56	19.58	19.77

Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.41	22.59	22.46
10	QPSK	1	25	22.51	22.66	22.95
10	QPSK	1	49	22.33	22.44	22.40
10	QPSK	25	0	21.60	21.75	21.77
10	QPSK	25	12	21.56	21.72	21.75
10	QPSK	25	25	21.57	21.69	21.68
10	QPSK	50	0	21.59	21.67	21.78
10	16QAM	1	0	21.53	21.54	21.68
10	16QAM	1	25	22.24	21.71	21.89
10	16QAM	1	49	21.35	21.30	21.59
10	16QAM	25	0	20.65	20.54	20.64
10	16QAM	25	12	20.59	20.62	20.80
10	16QAM	25	25	20.54	20.46	20.66
10	16QAM	50	0	20.55	20.57	20.67
10	64QAM	1	0	20.61	20.62	20.74
10	64QAM	1	25	20.68	20.63	20.99
10	64QAM	1	49	20.53	20.57	20.67
10	64QAM	25	0	19.79	19.90	19.91
10	64QAM	25	12	19.63	19.89	19.88
10	64QAM	25	25	19.73	19.64	19.85
10	64QAM	50	0	19.53	19.63	19.67

Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.22	22.40	22.34
5	QPSK	1	12	22.49	22.80	22.75
5	QPSK	1	24	22.08	22.23	22.21
5	QPSK	12	0	21.58	21.73	21.69
5	QPSK	12	7	21.57	21.73	21.66
5	QPSK	12	13	21.51	21.65	21.66
5	QPSK	25	0	21.56	21.64	21.69
5	16QAM	1	0	21.42	21.52	21.47
5	16QAM	1	12	21.36	21.48	21.55
5	16QAM	1	24	21.38	21.52	21.56
5	16QAM	12	0	20.35	20.60	20.66
5	16QAM	12	7	20.57	20.63	20.68
5	16QAM	12	13	20.32	20.60	20.65
5	16QAM	25	0	20.32	20.78	20.80
5	64QAM	1	0	20.45	20.54	20.66
5	64QAM	1	12	20.90	20.95	21.01
5	64QAM	1	24	20.40	20.45	20.54
5	64QAM	12	0	19.70	19.43	19.83
5	64QAM	12	7	19.64	19.80	19.79
5	64QAM	12	13	19.50	19.72	19.77
5	64QAM	25	0	19.32	19.80	19.65

Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.20	22.43	22.53
3	QPSK	1	8	22.58	22.49	22.66
3	QPSK	1	14	22.48	22.49	22.42
3	QPSK	8	0	21.61	21.74	21.72
3	QPSK	8	4	21.53	21.72	21.75
3	QPSK	8	7	21.62	21.65	21.70
3	QPSK	15	0	21.63	21.73	21.68
3	16QAM	1	0	21.30	21.40	21.41
3	16QAM	1	8	21.37	21.46	21.51
3	16QAM	1	14	21.33	21.36	21.42
3	16QAM	8	0	20.67	20.58	20.83
3	16QAM	8	4	20.62	20.67	20.60
3	16QAM	8	7	20.60	20.79	20.63
3	16QAM	15	0	20.54	20.65	20.39
3	64QAM	1	0	20.60	20.64	20.66
3	64QAM	1	8	20.54	20.54	20.65
3	64QAM	1	14	20.58	20.72	20.59
3	64QAM	8	0	19.70	19.71	19.68
3	64QAM	8	4	19.57	19.61	19.63
3	64QAM	8	7	19.57	19.64	19.70
3	64QAM	15	0	19.56	19.75	19.86

Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.45	22.46	22.56
1.4	QPSK	1	3	22.65	22.49	22.68
1.4	QPSK	1	5	22.58	22.40	22.54
1.4	QPSK	3	0	22.68	22.69	22.60
1.4	QPSK	3	1	22.87	22.74	22.62
1.4	QPSK	3	3	22.61	22.69	22.75
1.4	QPSK	6	0	21.57	21.81	21.66
1.4	16QAM	1	0	21.57	21.80	21.33
1.4	16QAM	1	3	21.67	21.83	21.73
1.4	16QAM	1	5	21.23	21.75	21.80
1.4	16QAM	3	0	21.65	21.70	21.73
1.4	16QAM	3	1	21.80	21.77	21.75
1.4	16QAM	3	3	21.45	21.70	21.67
1.4	16QAM	6	0	20.68	20.70	20.50
1.4	64QAM	1	0	20.89	20.96	20.94
1.4	64QAM	1	3	20.74	21.12	21.12
1.4	64QAM	1	5	20.56	20.92	20.99
1.4	64QAM	3	0	20.61	20.61	20.61
1.4	64QAM	3	1	20.70	20.73	20.76
1.4	64QAM	3	3	20.64	20.68	20.65
1.4	64QAM	6	0	19.50	19.58	19.60

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	22.58	22.66	22.46
10	QPSK	1	25	22.97	**23.25**	23.06
10	QPSK	1	49	22.87	22.82	22.39
10	QPSK	25	0	21.91	21.86	21.81
10	QPSK	25	12	22.01	22.05	21.81
10	QPSK	25	25	21.95	21.98	21.78
10	QPSK	50	0	21.91	21.94	21.81
10	16QAM	1	0	21.77	21.69	21.57
10	16QAM	1	25	21.76	21.74	21.73
10	16QAM	1	49	21.74	21.66	21.59
10	16QAM	25	0	20.94	21.00	20.85
10	16QAM	25	12	21.05	20.87	20.76
10	16QAM	25	25	20.98	20.72	20.75
10	16QAM	50	0	20.87	20.87	20.86
10	64QAM	1	0	20.84	20.71	20.80
10	64QAM	1	25	21.34	21.30	21.25
10	64QAM	1	49	20.84	21.09	20.69
10	64QAM	25	0	19.92	19.81	19.87
10	64QAM	25	12	19.94	19.98	19.82
10	64QAM	25	25	20.09	20.04	19.84
10	64QAM	50	0	20.06	19.88	19.79

Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.54	22.37	22.70
5	QPSK	1	12	23.21	22.99	22.98
5	QPSK	1	24	22.46	22.39	22.23
5	QPSK	12	0	21.96	21.83	21.83
5	QPSK	12	7	21.91	21.84	21.66
5	QPSK	12	13	21.94	21.83	21.67
5	QPSK	25	0	21.90	21.84	21.81
5	16QAM	1	0	21.80	21.52	21.63
5	16QAM	1	12	21.76	22.12	21.59
5	16QAM	1	24	21.71	21.50	21.33
5	16QAM	12	0	20.70	20.66	20.74
5	16QAM	12	7	20.95	20.88	20.72
5	16QAM	12	13	20.67	20.77	20.69
5	16QAM	25	0	20.65	20.67	20.83
5	64QAM	1	0	20.82	20.77	20.63
5	64QAM	1	12	21.23	21.22	21.01
5	64QAM	1	24	20.75	20.69	20.52
5	64QAM	12	0	19.83	19.89	19.81
5	64QAM	12	7	19.82	19.92	19.78
5	64QAM	12	13	19.78	19.92	19.77
5	64QAM	25	0	19.79	19.68	19.49

Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.67	22.58	22.46
3	QPSK	1	8	22.87	22.85	22.49
3	QPSK	1	14	22.72	22.66	22.36
3	QPSK	8	0	21.93	21.81	21.65
3	QPSK	8	4	21.93	21.85	21.73
3	QPSK	8	7	21.87	21.82	21.69
3	QPSK	15	0	21.90	21.86	21.72
3	16QAM	1	0	21.60	21.57	21.64
3	16QAM	1	8	21.75	21.69	21.53
3	16QAM	1	14	21.85	21.74	21.43
3	16QAM	8	0	20.61	20.79	20.61
3	16QAM	8	4	20.73	20.75	20.88
3	16QAM	8	7	20.65	20.82	20.78
3	16QAM	15	0	20.86	20.62	20.40
3	64QAM	1	0	20.88	20.80	20.66
3	64QAM	1	8	21.19	20.75	20.61
3	64QAM	1	14	20.86	20.78	20.67
3	64QAM	8	0	19.79	19.78	19.64
3	64QAM	8	4	19.87	19.76	19.64
3	64QAM	8	7	19.66	19.63	19.41
3	64QAM	15	0	20.01	19.74	19.82

Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.76	22.86	22.66
1.4	QPSK	1	3	22.90	22.88	22.74
1.4	QPSK	1	5	22.86	22.81	22.60
1.4	QPSK	3	0	22.87	22.86	22.52
1.4	QPSK	3	1	22.81	23.01	22.72
1.4	QPSK	3	3	22.91	22.99	22.72
1.4	QPSK	6	0	21.91	21.81	21.67
1.4	16QAM	1	0	21.58	21.49	21.59
1.4	16QAM	1	3	21.78	21.89	21.75
1.4	16QAM	1	5	21.54	21.76	21.48
1.4	16QAM	3	0	22.04	21.93	21.70
1.4	16QAM	3	1	21.99	22.08	21.72
1.4	16QAM	3	3	22.00	21.63	21.72
1.4	16QAM	6	0	20.78	20.55	20.73
1.4	64QAM	1	0	20.89	20.81	21.00
1.4	64QAM	1	3	21.02	20.89	20.79
1.4	64QAM	1	5	20.80	20.92	20.67
1.4	64QAM	3	0	20.93	20.90	20.67
1.4	64QAM	3	1	20.97	20.93	20.73
1.4	64QAM	3	3	20.91	20.84	20.73
1.4	64QAM	6	0	19.76	19.65	19.50

LTE Band 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.86	22.91	23.01
20	QPSK	1	49	22.90	**23.29**	23.19
20	QPSK	1	99	22.74	23.04	23.13
20	QPSK	50	0	22.09	22.37	22.35
20	QPSK	50	24	22.04	22.28	22.20
20	QPSK	50	50	22.07	22.35	22.34
20	QPSK	100	0	22.03	22.37	22.36
20	16QAM	1	0	21.87	22.07	22.14
20	16QAM	1	49	21.90	22.15	22.22
20	16QAM	1	99	21.92	22.06	22.22
20	16QAM	50	0	21.03	21.29	21.19
20	16QAM	50	24	21.06	21.26	21.21
20	16QAM	50	50	20.92	21.39	21.30
20	16QAM	100	0	21.03	21.25	21.30
20	64QAM	1	0	21.03	21.13	21.27
20	64QAM	1	49	21.69	21.46	21.57
20	64QAM	1	99	21.05	21.49	21.57
20	64QAM	50	0	20.12	20.29	20.22
20	64QAM	50	24	20.20	20.31	20.25
20	64QAM	50	50	20.10	20.29	20.36
20	64QAM	100	0	20.19	20.36	20.42

Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.16	23.09	23.28
15	QPSK	1	37	23.10	23.18	23.21
15	QPSK	1	74	23.07	23.18	23.25
15	QPSK	36	0	22.13	22.37	22.26
15	QPSK	36	20	22.12	22.34	22.34
15	QPSK	36	39	22.15	22.37	22.36
15	QPSK	75	0	22.13	22.35	22.26
15	16QAM	1	0	21.97	21.87	22.08
15	16QAM	1	37	21.93	22.15	22.71
15	16QAM	1	74	22.02	22.14	22.22
15	16QAM	36	0	21.05	21.23	21.14
15	16QAM	36	20	21.06	21.29	21.26
15	16QAM	36	39	21.12	21.26	21.28
15	16QAM	75	0	21.10	21.33	21.21
15	64QAM	1	0	21.17	21.18	21.57
15	64QAM	1	37	21.44	21.74	21.73
15	64QAM	1	74	21.10	21.63	21.68
15	64QAM	36	0	20.28	20.46	20.36
15	64QAM	36	20	20.21	20.55	20.48
15	64QAM	36	39	20.21	20.39	20.55
15	64QAM	75	0	20.02	20.54	20.22

Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.28	23.06	23.20
10	QPSK	1	25	23.19	23.28	23.25
10	QPSK	1	49	22.78	23.10	23.25
10	QPSK	25	0	22.18	22.39	22.34
10	QPSK	25	12	22.20	22.35	22.36
10	QPSK	25	25	22.14	22.30	22.35
10	QPSK	50	0	22.08	22.40	22.37
10	16QAM	1	0	21.85	22.08	22.25
10	16QAM	1	25	22.23	22.44	22.51
10	16QAM	1	49	21.97	22.34	22.20
10	16QAM	25	0	21.13	21.51	21.20
10	16QAM	25	12	21.00	21.20	21.24
10	16QAM	25	25	20.94	21.16	21.59
10	16QAM	50	0	21.02	21.28	21.21
10	64QAM	1	0	21.20	21.20	21.36
10	64QAM	1	25	21.56	21.68	21.79
10	64QAM	1	49	20.96	21.50	21.71
10	64QAM	25	0	20.05	20.48	20.53
10	64QAM	25	12	20.35	20.56	20.53
10	64QAM	25	25	20.00	20.39	20.58
10	64QAM	50	0	20.02	20.30	20.37

Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.19	22.89	22.84
5	QPSK	1	12	23.09	23.26	23.23
5	QPSK	1	24	22.74	23.17	23.22
5	QPSK	12	0	22.17	22.34	22.28
5	QPSK	12	7	22.17	22.32	22.36
5	QPSK	12	13	22.12	22.34	22.30
5	QPSK	25	0	22.13	22.30	22.31
5	16QAM	1	0	21.76	22.16	22.11
5	16QAM	1	12	22.01	22.19	22.19
5	16QAM	1	24	21.82	21.80	22.03
5	16QAM	12	0	21.01	21.34	21.16
5	16QAM	12	7	21.08	21.30	21.24
5	16QAM	12	13	21.08	21.26	21.26
5	16QAM	25	0	21.19	21.28	21.40
5	64QAM	1	0	21.28	20.78	21.10
5	64QAM	1	12	21.40	21.61	21.63
5	64QAM	1	24	20.97	21.12	21.41
5	64QAM	12	0	20.25	20.47	20.16
5	64QAM	12	7	20.26	20.46	20.41
5	64QAM	12	13	20.21	20.39	20.41
5	64QAM	25	0	20.00	20.52	20.45

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	22.97	22.91	22.66
15	QPSK	1	37	23.10	22.98	**23.15**
15	QPSK	1	74	22.99	22.64	22.99
15	QPSK	36	0	22.03	21.92	22.04
15	QPSK	36	20	22.01	21.88	21.86
15	QPSK	36	39	22.06	21.93	22.07
15	QPSK	75	0	21.96	21.90	21.99
15	16QAM	1	0	21.92	21.69	21.73
15	16QAM	1	37	22.21	21.68	22.25
15	16QAM	1	74	21.89	21.38	21.80
15	16QAM	36	0	20.98	20.98	20.76
15	16QAM	36	20	21.08	20.85	20.83
15	16QAM	36	39	21.04	20.79	20.74
15	16QAM	75	0	21.07	20.75	20.94
15	64QAM	1	0	21.06	20.93	20.88
15	64QAM	1	37	21.45	21.29	21.24
15	64QAM	1	74	21.14	20.73	20.93
15	64QAM	36	0	20.10	20.12	19.90
15	64QAM	36	20	20.14	19.99	19.98
15	64QAM	36	39	20.10	19.75	19.89
15	64QAM	75	0	20.23	19.78	20.08

Channel				26840	26915	26990
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.79	22.76	22.55
10	QPSK	1	25	22.96	22.92	22.77
10	QPSK	1	49	22.73	22.43	22.66
10	QPSK	25	0	22.05	22.02	21.86
10	QPSK	25	12	22.03	21.92	21.82
10	QPSK	25	25	22.03	21.79	21.93
10	QPSK	50	0	22.01	21.86	21.89
10	16QAM	1	0	21.91	21.85	21.66
10	16QAM	1	25	22.07	21.95	21.87
10	16QAM	1	49	21.84	21.66	21.84
10	16QAM	25	0	20.99	20.97	20.81
10	16QAM	25	12	20.97	20.88	20.97
10	16QAM	25	25	20.97	20.75	20.82
10	16QAM	50	0	20.96	20.91	20.87
10	64QAM	1	0	20.99	20.87	20.64
10	64QAM	1	25	20.97	20.87	21.28
10	64QAM	1	49	21.00	20.77	20.89
10	64QAM	25	0	19.80	20.17	20.00
10	64QAM	25	12	19.79	19.99	19.82
10	64QAM	25	25	19.91	19.97	19.67
10	64QAM	50	0	19.99	19.84	19.92

Channel				26815	26915	27015
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.96	22.54	22.78
5	QPSK	1	12	23.14	22.90	23.10
5	QPSK	1	24	22.60	22.38	22.57
5	QPSK	12	0	22.03	21.92	21.82
5	QPSK	12	7	22.00	21.84	21.90
5	QPSK	12	13	21.99	21.79	21.86
5	QPSK	25	0	21.99	21.84	21.89
5	16QAM	1	0	22.19	21.79	21.96
5	16QAM	1	12	21.85	21.72	21.99
5	16QAM	1	24	21.83	21.61	21.74
5	16QAM	12	0	21.16	20.83	20.88
5	16QAM	12	7	20.93	20.89	20.77
5	16QAM	12	13	20.85	20.80	20.80
5	16QAM	25	0	21.05	21.00	20.93
5	64QAM	1	0	20.86	20.85	20.66
5	64QAM	1	12	21.38	21.24	21.26
5	64QAM	1	24	20.89	20.69	20.81
5	64QAM	12	0	20.10	20.12	19.98
5	64QAM	12	7	19.98	19.94	19.94
5	64QAM	12	13	19.79	19.87	19.73
5	64QAM	25	0	19.74	19.73	19.83

Channel				26805	26915	27025
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.88	22.73	22.82
3	QPSK	1	8	22.90	22.80	22.90
3	QPSK	1	14	22.90	22.71	22.93
3	QPSK	8	0	22.89	22.75	22.76
3	QPSK	8	4	22.96	22.77	22.95
3	QPSK	8	7	22.95	22.73	22.96
3	QPSK	15	0	22.16	21.77	21.93
3	16QAM	1	0	22.13	21.73	21.78
3	16QAM	1	8	22.17	21.83	21.91
3	16QAM	1	14	22.10	21.76	21.61
3	16QAM	8	0	21.75	21.84	21.94
3	16QAM	8	4	21.92	21.87	21.96
3	16QAM	8	7	21.97	21.89	21.92
3	16QAM	15	0	21.07	20.77	21.00
3	64QAM	1	0	21.01	21.11	21.14
3	64QAM	1	8	20.99	20.92	21.01
3	64QAM	1	14	21.00	20.82	20.82
3	64QAM	8	0	20.75	20.86	20.93
3	64QAM	8	4	20.83	20.91	20.96
3	64QAM	8	7	20.72	20.85	20.85
3	64QAM	15	0	19.91	19.73	19.86

Channel				26797	26915	27033
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.82	22.63	22.95
1.4	QPSK	1	3	22.60	22.60	22.91
1.4	QPSK	1	5	22.57	22.44	22.75
1.4	QPSK	3	0	22.07	22.00	22.26
1.4	QPSK	3	1	22.02	22.10	22.20
1.4	QPSK	3	3	22.29	22.13	22.16
1.4	QPSK	6	0	21.98	21.82	21.85
1.4	16QAM	1	0	21.75	21.77	21.84
1.4	16QAM	1	3	21.80	21.64	21.73
1.4	16QAM	1	5	21.76	21.59	21.67
1.4	16QAM	3	0	21.24	21.02	21.18
1.4	16QAM	3	1	21.12	21.20	21.13
1.4	16QAM	3	3	21.10	21.23	21.27
1.4	16QAM	6	0	20.79	20.79	20.75
1.4	64QAM	1	0	20.92	20.83	20.84
1.4	64QAM	1	3	20.90	21.11	20.78
1.4	64QAM	1	5	21.00	20.81	20.87
1.4	64QAM	3	0	20.29	20.21	20.02
1.4	64QAM	3	1	20.23	20.11	20.16
1.4	64QAM	3	3	20.21	20.14	20.20
1.4	64QAM	6	0	19.91	19.71	19.88

LTE Band 38

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.19	22.74	22.89
20	QPSK	1	49	**23.24**	22.86	23.09
20	QPSK	1	99	22.86	22.80	22.64
20	QPSK	50	0	22.17	22.03	22.06
20	QPSK	50	24	22.22	22.05	22.08
20	QPSK	50	50	22.19	22.03	22.05
20	QPSK	100	0	22.17	22.03	22.05
20	16QAM	1	0	21.77	21.49	21.53
20	16QAM	1	49	22.00	21.78	21.79
20	16QAM	1	99	21.72	21.40	21.44
20	16QAM	50	0	21.16	20.84	20.84
20	16QAM	50	24	21.13	20.96	20.85
20	16QAM	50	50	21.02	20.94	20.96
20	16QAM	100	0	21.10	20.93	20.96
20	64QAM	1	0	21.00	20.72	20.39
20	64QAM	1	49	21.13	20.93	20.94
20	64QAM	1	99	20.75	20.53	20.60
20	64QAM	50	0	20.25	20.01	20.07
20	64QAM	50	24	20.19	20.02	20.02
20	64QAM	50	50	20.16	20.03	20.05
20	64QAM	100	0	20.28	20.15	20.17

Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.17	22.98	23.03
15	QPSK	1	37	23.22	23.19	23.09
15	QPSK	1	74	23.23	22.88	22.93
15	QPSK	36	0	22.23	22.03	22.08
15	QPSK	36	20	22.29	22.03	22.09
15	QPSK	36	39	22.31	22.02	22.07
15	QPSK	75	0	22.30	22.05	22.11
15	16QAM	1	0	21.96	21.56	21.60
15	16QAM	1	37	21.74	21.65	21.64
15	16QAM	1	74	21.73	21.55	21.61
15	16QAM	36	0	20.96	20.76	21.07
15	16QAM	36	20	21.08	20.93	20.99
15	16QAM	36	39	21.33	20.91	20.85
15	16QAM	75	0	21.21	20.97	21.04
15	64QAM	1	0	21.00	20.63	20.59
15	64QAM	1	37	21.42	21.31	21.19
15	64QAM	1	74	20.92	20.63	20.66
15	64QAM	36	0	20.25	20.16	20.19
15	64QAM	36	20	20.39	20.05	20.10
15	64QAM	36	39	20.20	19.92	19.99
15	64QAM	75	0	20.33	19.95	20.03

Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	23.21	23.01	23.08
10	QPSK	1	25	23.18	22.98	23.10
10	QPSK	1	49	23.20	22.84	23.07
10	QPSK	25	0	22.36	22.09	21.97
10	QPSK	25	12	22.30	22.10	22.11
10	QPSK	25	25	22.30	22.11	22.05
10	QPSK	50	0	22.27	22.12	22.09
10	16QAM	1	0	22.00	21.66	21.74
10	16QAM	1	25	22.07	21.90	21.83
10	16QAM	1	49	21.87	21.56	21.61
10	16QAM	25	0	21.25	21.03	21.02
10	16QAM	25	12	21.33	21.08	21.30
10	16QAM	25	25	21.32	20.91	20.99
10	16QAM	50	0	21.16	20.83	21.02
10	64QAM	1	0	21.05	20.72	20.81
10	64QAM	1	25	21.12	20.87	20.90
10	64QAM	1	49	21.00	20.70	20.68
10	64QAM	25	0	20.50	20.06	20.28
10	64QAM	25	12	20.34	20.11	20.32
10	64QAM	25	25	20.58	20.30	20.34
10	64QAM	50	0	20.25	20.02	20.12

Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	23.23	22.81	22.86
5	QPSK	1	12	23.16	22.94	23.11
5	QPSK	1	24	23.03	22.81	22.87
5	QPSK	12	0	22.34	21.99	22.02
5	QPSK	12	7	22.33	22.12	22.10
5	QPSK	12	13	22.35	22.02	22.05
5	QPSK	25	0	22.36	22.02	22.11
5	16QAM	1	0	21.92	21.59	21.63
5	16QAM	1	12	21.89	21.66	21.66
5	16QAM	1	24	21.75	21.43	21.49
5	16QAM	12	0	21.40	21.05	21.07
5	16QAM	12	7	21.30	21.16	21.27
5	16QAM	12	13	21.40	20.85	21.10
5	16QAM	25	0	21.43	21.09	21.29
5	64QAM	1	0	21.01	20.59	20.71
5	64QAM	1	12	21.55	21.21	21.22
5	64QAM	1	24	20.92	20.62	20.68
5	64QAM	12	0	20.27	20.05	19.94
5	64QAM	12	7	20.21	20.09	20.16
5	64QAM	12	13	20.17	19.95	20.13
5	64QAM	25	0	20.32	20.23	20.31

LTE Band 41

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	22.67	22.68	22.71
20	QPSK	1	49	22.85	22.89	22.83
20	QPSK	1	99	22.84	22.70	22.78
20	QPSK	50	0	22.05	22.04	22.01
20	QPSK	50	24	22.07	22.08	22.03
20	QPSK	50	50	22.00	22.06	21.97
20	QPSK	100	0	22.03	22.06	21.95
20	16QAM	1	0	21.41	21.45	21.52
20	16QAM	1	49	21.86	21.83	21.78
20	16QAM	1	99	21.47	21.44	21.42
20	16QAM	50	0	21.10	21.09	20.95
20	16QAM	50	24	20.94	20.96	20.84
20	16QAM	50	50	20.82	21.11	20.94
20	16QAM	100	0	20.83	20.86	20.90
20	64QAM	1	0	20.11	20.13	20.15
20	64QAM	1	49	20.93	20.91	20.86
20	64QAM	1	99	20.61	20.60	20.49
20	64QAM	50	0	20.07	20.07	19.94
20	64QAM	50	24	20.00	20.03	19.94
20	64QAM	50	50	20.03	19.85	20.03
20	64QAM	100	0	20.07	19.84	20.10

Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	22.73	22.81	22.87
15	QPSK	1	37	22.97	23.17	**23.23**
15	QPSK	1	74	22.99	23.01	22.87
15	QPSK	36	0	21.93	22.00	21.92
15	QPSK	36	20	21.92	21.98	21.89
15	QPSK	36	39	22.02	21.99	21.92
15	QPSK	75	0	21.95	22.02	21.95
15	16QAM	1	0	21.38	21.44	21.61
15	16QAM	1	37	21.51	21.64	21.43
15	16QAM	1	74	21.58	21.51	21.37
15	16QAM	36	0	20.93	20.99	20.92
15	16QAM	36	20	21.06	20.79	20.90
15	16QAM	36	39	20.94	20.76	20.77
15	16QAM	75	0	21.00	20.82	20.92
15	64QAM	1	0	20.53	20.58	20.56
15	64QAM	1	37	21.26	21.31	21.19
15	64QAM	1	74	20.65	20.57	20.61
15	64QAM	36	0	19.96	20.12	20.04
15	64QAM	36	20	20.07	20.13	19.93
15	64QAM	36	39	20.05	20.13	19.98
15	64QAM	75	0	19.99	20.05	20.00

Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	22.85	22.85	22.93
10	QPSK	1	25	22.86	23.04	22.89
10	QPSK	1	49	22.85	22.95	22.70
10	QPSK	25	0	21.98	22.10	21.92
10	QPSK	25	12	21.98	22.09	21.98
10	QPSK	25	25	22.07	21.85	21.93
10	QPSK	50	0	21.98	21.87	21.89
10	16QAM	1	0	21.60	21.50	21.52
10	16QAM	1	25	21.71	21.80	21.66
10	16QAM	1	49	21.59	21.60	21.55
10	16QAM	25	0	21.05	21.16	20.80
10	16QAM	25	12	21.29	21.03	21.17
10	16QAM	25	25	21.14	21.25	21.08
10	16QAM	50	0	20.81	20.92	20.96
10	64QAM	1	0	20.65	20.55	20.54
10	64QAM	1	25	20.78	20.78	20.73
10	64QAM	1	49	20.73	20.66	20.52
10	64QAM	25	0	20.29	20.31	19.93
10	64QAM	25	12	20.33	20.20	20.22
10	64QAM	25	25	20.07	20.29	19.94
10	64QAM	50	0	20.03	20.15	19.95

Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	22.78	22.77	22.64
5	QPSK	1	12	23.02	23.02	22.83
5	QPSK	1	24	22.71	22.73	22.65
5	QPSK	12	0	21.76	22.12	21.88
5	QPSK	12	7	22.01	21.99	21.86
5	QPSK	12	13	21.99	22.10	21.86
5	QPSK	25	0	22.01	21.89	21.84
5	16QAM	1	0	21.38	21.39	21.26
5	16QAM	1	12	21.46	21.55	21.55
5	16QAM	1	24	21.37	21.47	21.32
5	16QAM	12	0	20.71	20.73	20.95
5	16QAM	12	7	21.07	21.17	20.91
5	16QAM	12	13	21.06	20.78	20.91
5	16QAM	25	0	20.85	20.96	20.91
5	64QAM	1	0	20.54	20.47	20.54
5	64QAM	1	12	21.22	21.22	21.02
5	64QAM	1	24	20.54	20.56	20.49
5	64QAM	12	0	19.82	19.94	19.76
5	64QAM	12	7	19.95	19.97	19.83
5	64QAM	12	13	19.83	19.94	19.94
5	64QAM	25	0	20.22	19.97	19.94

ERP/EIRP

LTE Band 2 (GT - LC = -2.60 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.68	22.69	22.60	22.58	22.49	22.66	22.49	22.80	22.75
Conducted Power (Watts)	0.1854	0.1858	0.1820	0.1811	0.1774	0.1845	0.1774	0.1905	0.1884
EIRP(dBm)	20.08	20.09	20.00	19.98	19.89	20.06	19.89	20.20	20.15
EIRP(Watts)	0.1019	0.1021	0.1000	0.0995	0.0975	0.1014	0.0975	0.1047	0.1035

LTE Band 2 (GT - LC = -2.60 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.51	22.66	22.95	22.75	22.83	23.07	23.03	23.09	23.01
Conducted Power (Watts)	0.1782	0.1845	0.1972	0.1884	0.1919	0.2028	0.2009	0.2037	0.2000
EIRP(dBm)	19.91	20.06	20.35	20.15	20.23	20.47	20.43	20.49	20.41
EIRP(Watts)	0.0979	0.1014	0.1084	0.1035	0.1054	0.1114	0.1104	0.1119	0.1099

LTE Band 2 (GT - LC = -2.60 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	21.67	21.83	21.73	21.37	21.46	21.51	21.38	21.52	21.56
Conducted Power (Watts)	0.1469	0.1524	0.1489	0.1371	0.1400	0.1416	0.1374	0.1419	0.1432
EIRP(dBm)	19.07	19.23	19.13	18.77	18.86	18.91	18.78	18.92	18.96
EIRP(Watts)	0.0807	0.0838	0.0818	0.0753	0.0769	0.0778	0.0755	0.0780	0.0787

LTE Band 2 (GT - LC = -2.60 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.24	21.71	21.89	21.48	21.56	21.73	21.78	21.57	21.48
Conducted Power (Watts)	0.1675	0.1483	0.1545	0.1406	0.1432	0.1489	0.1507	0.1435	0.1406
EIRP(dBm)	19.64	19.11	19.29	18.88	18.96	19.13	19.18	18.97	18.88
EIRP(Watts)	0.0920	0.0815	0.0849	0.0773	0.0787	0.0818	0.0828	0.0789	0.0773

LTE Band 2 (GT - LC = -2.60 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.74	21.12	21.12	20.60	20.64	20.66	20.90	20.95	21.01
Conducted Power (Watts)	0.1186	0.1294	0.1294	0.1148	0.1159	0.1164	0.1230	0.1245	0.1262
EIRP(dBm)	18.14	18.52	18.52	18.00	18.04	18.06	18.30	18.35	18.41
EIRP(Watts)	0.0652	0.0711	0.0711	0.0631	0.0637	0.0640	0.0676	0.0684	0.0693

LTE Band 2 (GT - LC = -2.60 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.68	20.63	20.99	21.08	21.18	21.33	21.07	21.05	21.13
Conducted Power (Watts)	0.1169	0.1156	0.1256	0.1282	0.1312	0.1358	0.1279	0.1274	0.1297
EIRP(dBm)	18.08	18.03	18.39	18.48	18.58	18.73	18.47	18.45	18.53
EIRP(Watts)	0.0643	0.0635	0.0690	0.0705	0.0721	0.0746	0.0703	0.0700	0.0713

LTE Band 7 (GT - LC = -2.40 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	23.19	22.89	22.84
Conducted Power (Watts)	0.2084	0.1945	0.1923
EIRP(dBm)	20.79	20.49	20.44
EIRP(Watts)	0.1199	0.1119	0.1107

LTE Band 7 (GT - LC = -2.40 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	23.19	23.28	23.25	23.16	23.09	23.28	22.90	23.29	23.19
Conducted Power (Watts)	0.2084	0.2128	0.2113	0.2070	0.2037	0.2128	0.1950	0.2133	0.2084
EIRP(dBm)	20.79	20.88	20.85	20.76	20.69	20.88	20.50	20.89	20.79
EIRP(Watts)	0.1199	0.1225	0.1216	0.1191	0.1172	0.1225	0.1122	0.1227	0.1199

LTE Band 7 (GT - LC = -2.40 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.01	22.19	22.19
Conducted Power (Watts)	0.1589	0.1656	0.1656
EIRP(dBm)	19.61	19.79	19.79
EIRP(Watts)	0.0914	0.0953	0.0953

LTE Band 7 (GT - LC = -2.40 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	22.23	22.44	22.51	21.93	22.15	22.71	21.90	22.15	22.22
Conducted Power (Watts)	0.1671	0.1754	0.1782	0.1560	0.1641	0.1866	0.1549	0.1641	0.1667
EIRP(dBm)	19.83	20.04	20.11	19.53	19.75	20.31	19.50	19.75	19.82
EIRP(Watts)	0.0962	0.1009	0.1026	0.0897	0.0944	0.1074	0.0891	0.0944	0.0959

LTE Band 7 (GT - LC = -2.40 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	21.40	21.61	21.63
Conducted Power (Watts)	0.1380	0.1449	0.1455
EIRP(dBm)	19.00	19.21	19.23
EIRP(Watts)	0.0794	0.0834	0.0838

LTE Band 7 (GT - LC = -2.40 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.56	21.68	21.79	21.44	21.74	21.73	21.69	21.46	21.57
Conducted Power (Watts)	0.1432	0.1472	0.1510	0.1393	0.1493	0.1489	0.1476	0.1400	0.1435
EIRP(dBm)	19.16	19.28	19.39	19.04	19.34	19.33	19.29	19.06	19.17
EIRP(Watts)	0.0824	0.0847	0.0869	0.0802	0.0859	0.0857	0.0849	0.0805	0.0826

LTE Band 26 (GT - LC = -2.70 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)	22.82	22.63	22.95	22.95	22.73	22.96	23.14	22.90	23.10
Conducted Power (Watts)	0.1914	0.1832	0.1972	0.1972	0.1875	0.1977	0.2061	0.1950	0.2042
ERP(dBm)	17.97	17.78	18.10	18.10	17.88	18.11	18.29	18.05	18.25
ERP(Watts)	0.0627	0.0600	0.0646	0.0646	0.0614	0.0647	0.0675	0.0638	0.0668

LTE Band 26 (GT - LC = -2.70 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)	22.96	22.92	22.77	23.10	22.98	23.15	23.10
Conducted Power (Watts)	0.1977	0.1959	0.1892	0.2042	0.1986	0.2065	0.2042
ERP(dBm)	18.11	18.07	17.92	18.25	18.13	18.30	18.25
ERP(Watts)	0.0647	0.0641	0.0619	0.0668	0.0650	0.0676	0.0668

LTE Band 26 (GT - LC = -2.70 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)	21.75	21.77	21.84	22.17	21.83	21.91	22.19	21.79	21.96
Conducted Power (Watts)	0.1496	0.1503	0.1528	0.1648	0.1524	0.1552	0.1656	0.1510	0.1570
ERP(dBm)	16.90	16.92	16.99	17.32	16.98	17.06	17.34	16.94	17.11
ERP(Watts)	0.0490	0.0492	0.0500	0.0540	0.0499	0.0508	0.0542	0.0494	0.0514

LTE Band 26 (GT - LC = -2.70 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)	22.07	21.95	21.87	22.21	21.68	22.25	22.21
Conducted Power (Watts)	0.1611	0.1567	0.1538	0.1663	0.1472	0.1679	0.1663
ERP(dBm)	17.22	17.10	17.02	17.36	16.83	17.40	17.36
ERP(Watts)	0.0527	0.0513	0.0504	0.0545	0.0482	0.0550	0.0545

LTE Band 26 (GT - LC = -2.70 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)	20.90	21.11	20.78	21.01	21.11	21.14	21.38	21.24	21.26
Conducted Power (Watts)	0.1230	0.1291	0.1197	0.1262	0.1291	0.1300	0.1374	0.1330	0.1337
ERP(dBm)	16.05	16.26	15.93	16.16	16.26	16.29	16.53	16.39	16.41
ERP(Watts)	0.0403	0.0423	0.0392	0.0413	0.0423	0.0426	0.0450	0.0436	0.0438

LTE Band 26 (GT - LC = -2.70 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)	20.97	20.87	21.28	21.45	21.29	21.24	21.45
Conducted Power (Watts)	0.1250	0.1222	0.1343	0.1396	0.1346	0.1330	0.1396
ERP(dBm)	16.12	16.02	16.43	16.60	16.44	16.39	16.60
ERP(Watts)	0.0409	0.0400	0.0440	0.0457	0.0441	0.0436	0.0457

LTE Band 41 (GT - LC = -2.50 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	23.02	23.02	22.83	22.86	23.04	22.89	22.97	23.17	23.23
Conducted Power (Watts)	0.2004	0.2004	0.1919	0.1932	0.2014	0.1945	0.1982	0.2075	0.2104
EIRP(dBm)	20.52	20.52	20.33	20.36	20.54	20.39	20.47	20.67	20.73
EIRP(Watts)	0.1127	0.1127	0.1079	0.1086	0.1132	0.1094	0.1114	0.1167	0.1183

LTE Band 41 (GT - LC = -2.50 dB QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	22.85	22.89	22.83
Conducted Power (Watts)	0.1928	0.1945	0.1919
EIRP(dBm)	20.35	20.39	20.33
EIRP(Watts)	0.1084	0.1094	0.1079

LTE Band 41 (GT - LC = -2.50 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	21.46	21.55	21.55	21.71	21.80	21.66	21.51	21.64	21.43
Conducted Power (Watts)	0.1400	0.1429	0.1429	0.1483	0.1514	0.1466	0.1416	0.1459	0.1390
EIRP(dBm)	18.96	19.05	19.05	19.21	19.30	19.16	19.01	19.14	18.93
EIRP(Watts)	0.0787	0.0804	0.0804	0.0834	0.0851	0.0824	0.0796	0.0820	0.0782

LTE Band 41 (GT - LC = -2.50 dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	21.86	21.83	21.78
Conducted Power (Watts)	0.1535	0.1524	0.1507
EIRP(dBm)	19.36	19.33	19.28
EIRP(Watts)	0.0863	0.0857	0.0847

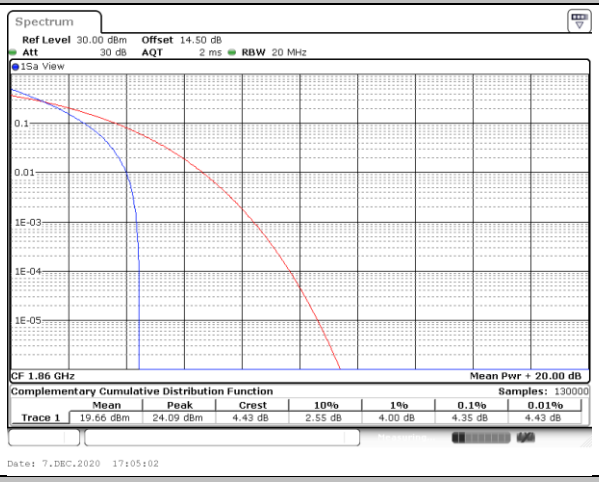
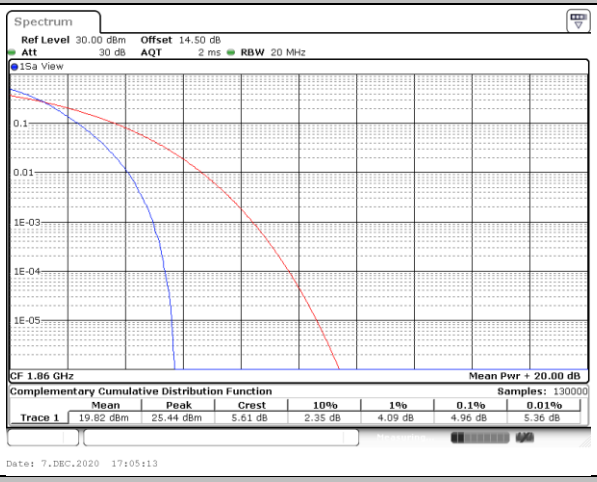
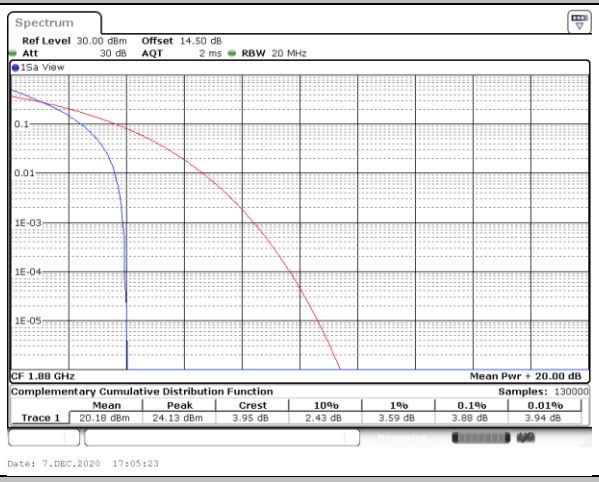
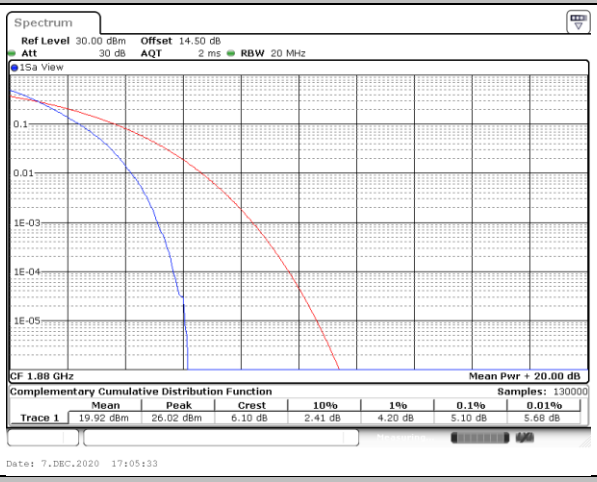
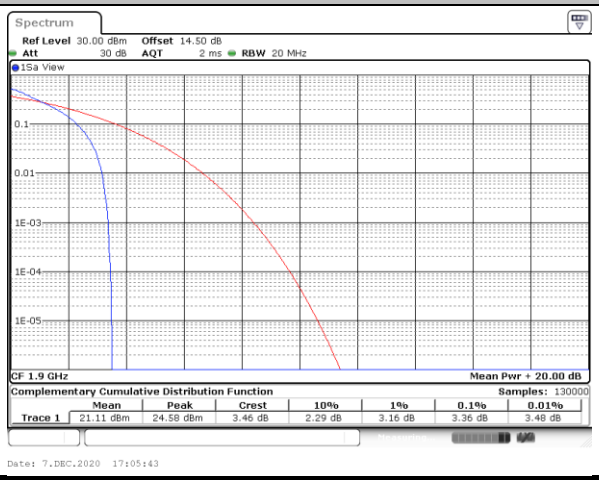
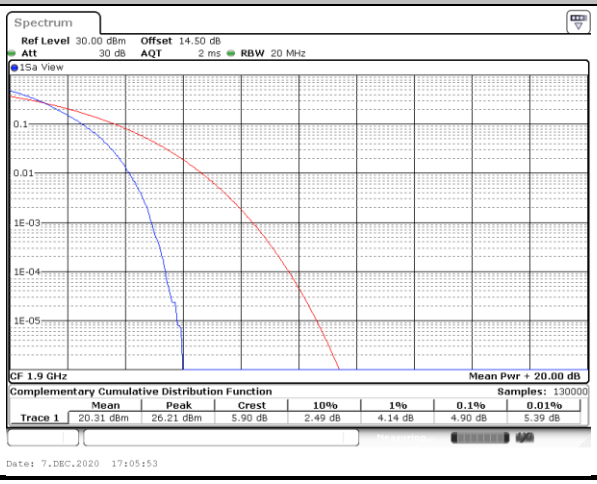
LTE Band 41 (GT - LC = -2.50 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	21.22	21.22	21.02	20.78	20.78	20.73	21.26	21.31	21.19
Conducted Power (Watts)	0.1324	0.1324	0.1265	0.1197	0.1197	0.1183	0.1337	0.1352	0.1315
EIRP(dBm)	18.72	18.72	18.52	18.28	18.28	18.23	18.76	18.81	18.69
EIRP(Watts)	0.0745	0.0745	0.0711	0.0673	0.0673	0.0665	0.0752	0.0760	0.0740

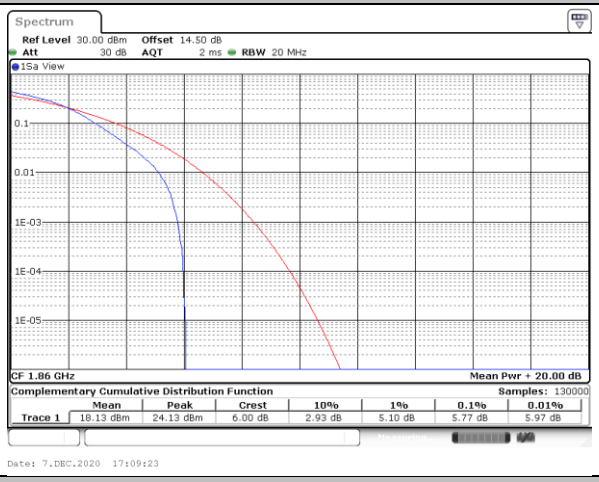
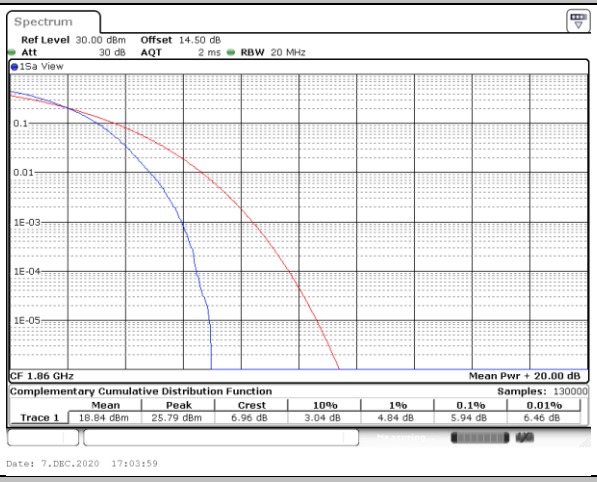
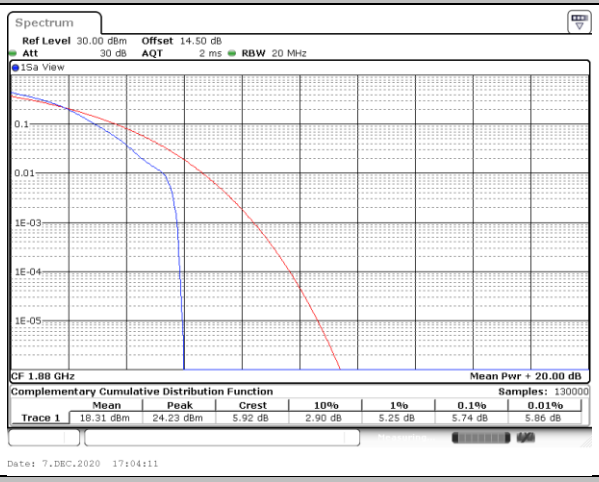
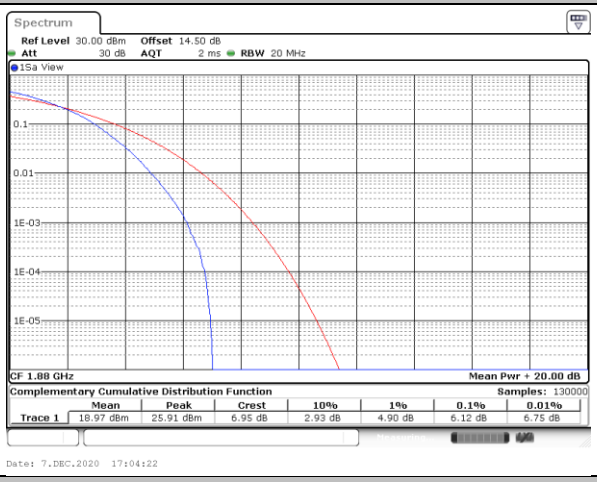
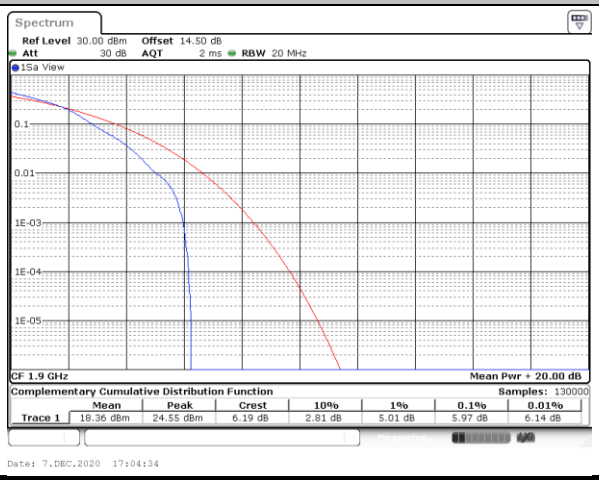
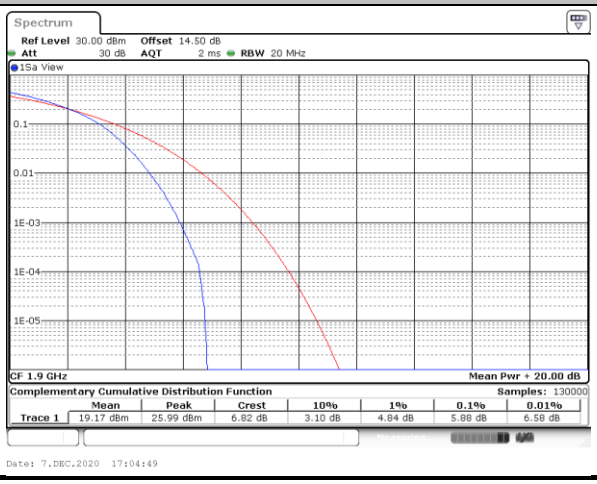
LTE Band 41 (GT - LC = -2.50 dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	20.93	20.91	20.86
Conducted Power (Watts)	0.1239	0.1233	0.1219
EIRP(dBm)	18.43	18.41	18.36
EIRP(Watts)	0.0697	0.0693	0.0685

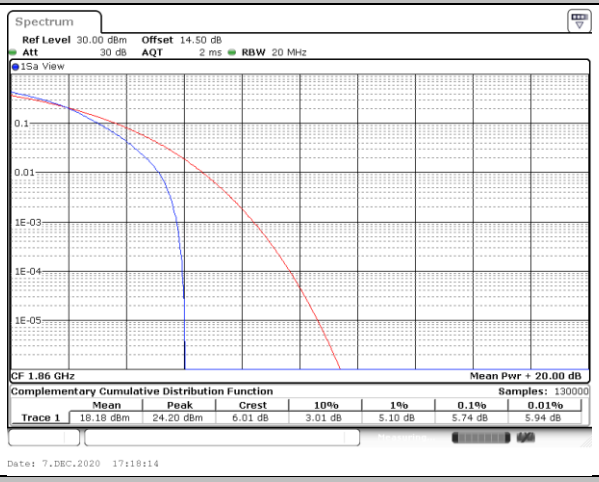
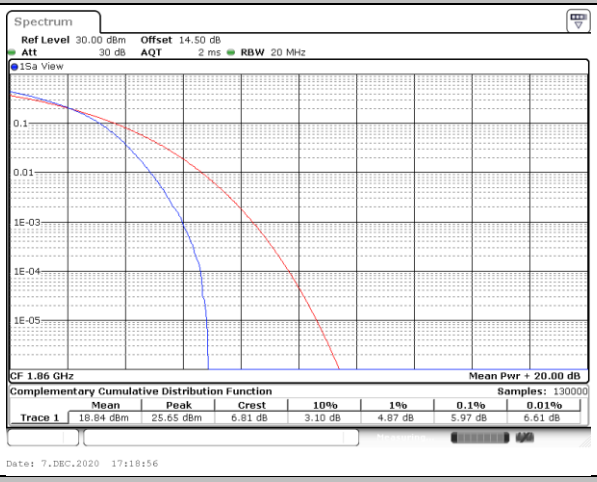
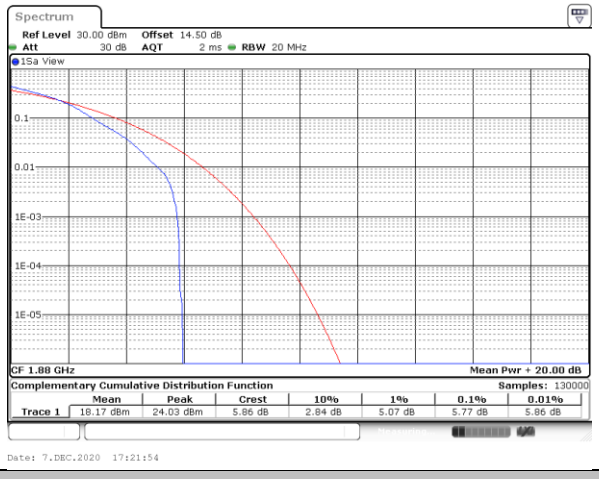
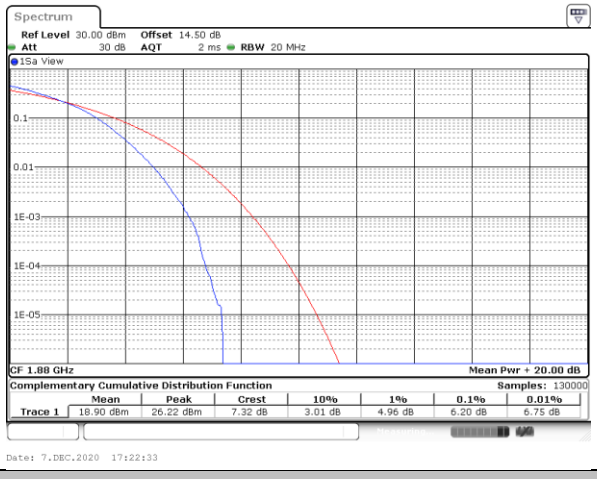
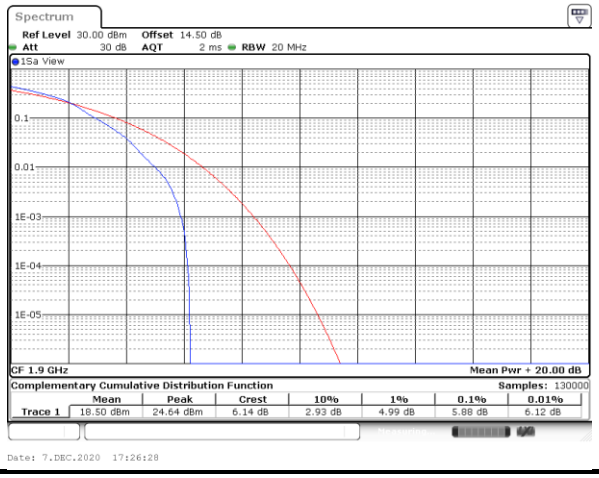
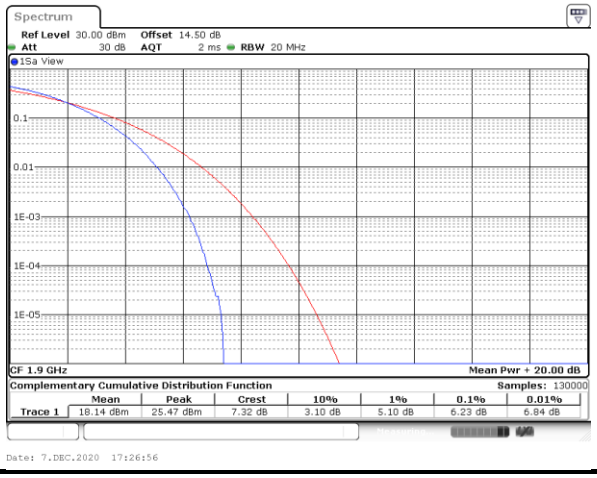
LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	4.96	5.77	5.94	PASS
Middle CH	3.88	5.10	5.74	6.12	
Highest CH	3.36	4.90	5.97	5.88	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.74	5.97	-	-	PASS
Middle CH	5.77	6.20	-	-	
Highest CH	5.88	6.23	-	-	

LTE Band 2 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 2 / 20MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

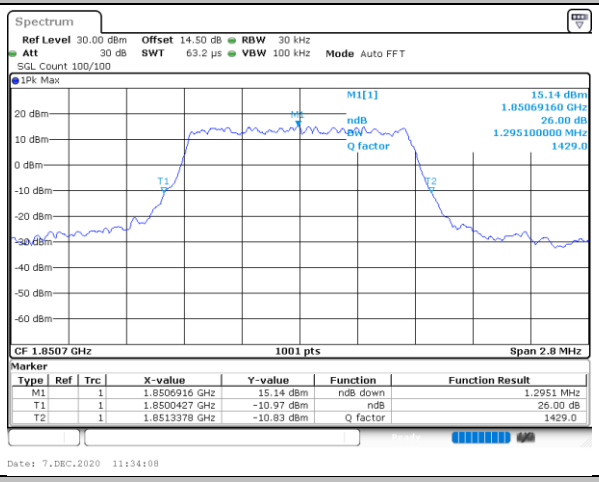
LTE Band 2 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

26dB Bandwidth

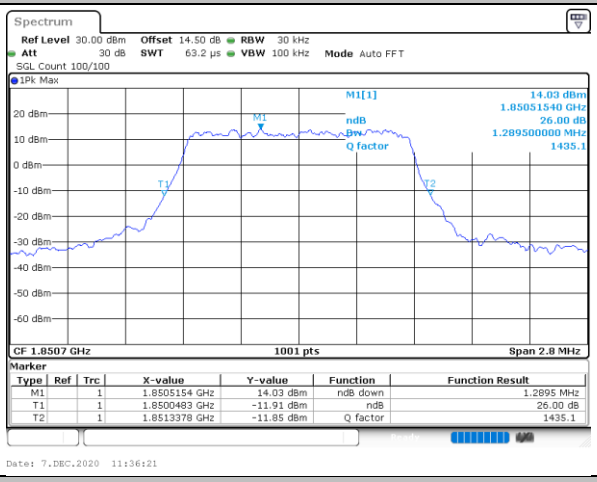
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.30	1.29	3.02	3.03	4.86	4.95	9.69	9.83	14.21	14.42	18.70	18.78
Middle CH	1.24	1.23	3.01	3.05	4.85	4.94	9.73	9.97	14.24	14.36	18.86	18.94
Highest CH	1.30	1.27	3.05	3.00	4.78	4.89	9.83	9.73	14.24	14.45	19.06	19.14
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.26	-	2.98	-	4.84	-	9.69	-	14.30	-	18.74	-
Middle CH	1.24	-	2.97	-	4.94	-	9.71	-	14.27	-	18.98	-
Highest CH	1.26	-	2.99	-	4.89	-	9.77	-	14.42	-	18.78	-

LTE Band 2

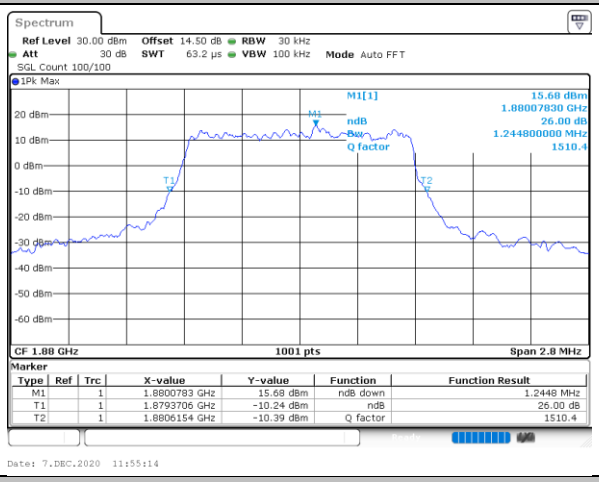
Lowest Channel / 1.4MHz / QPSK



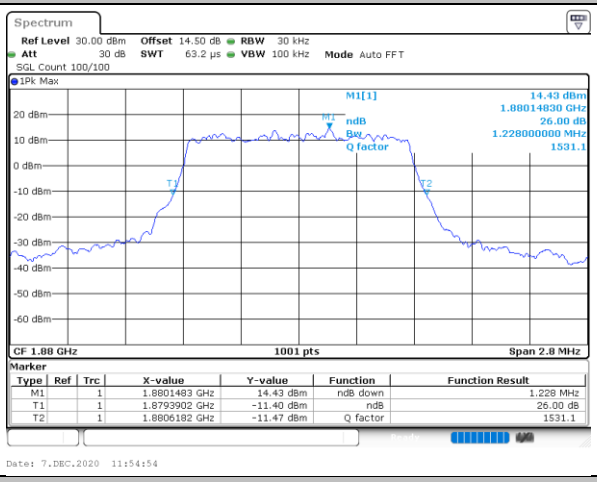
Lowest Channel / 1.4MHz / 16QAM



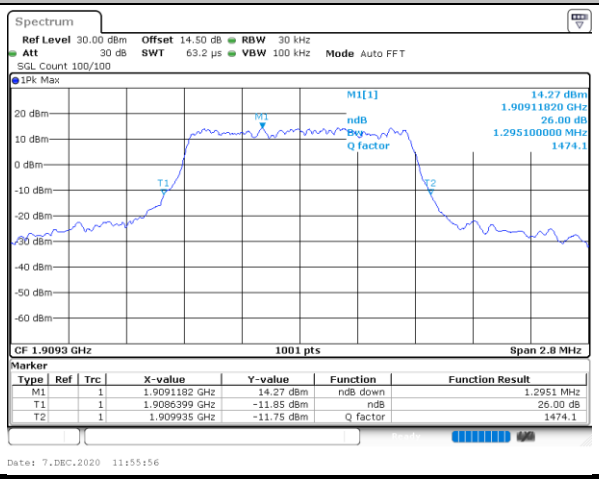
Middle Channel / 1.4MHz / QPSK



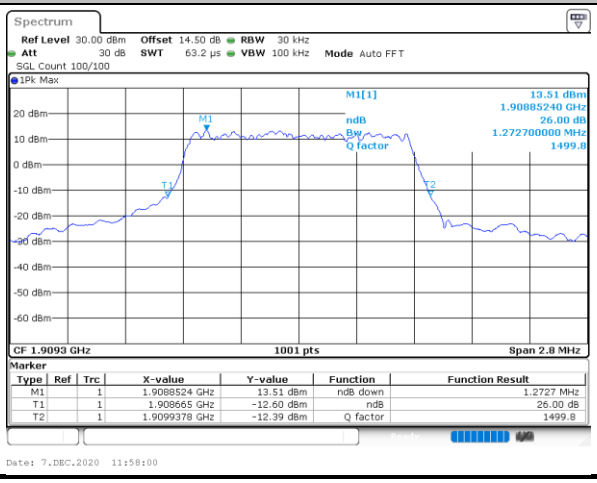
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

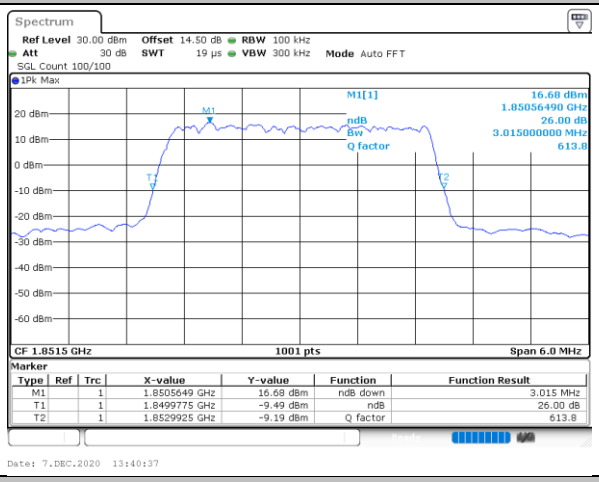


Highest Channel / 1.4MHz / 16QAM

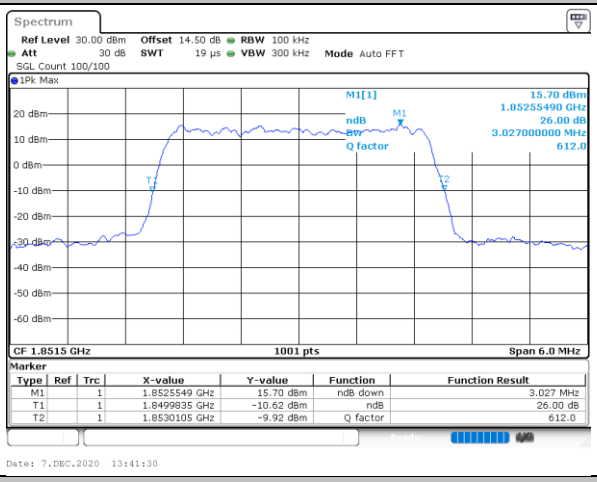


LTE Band 2

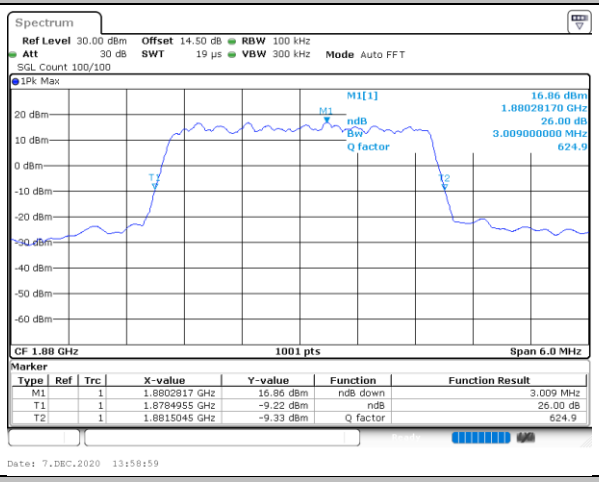
Lowest Channel / 3MHz / QPSK



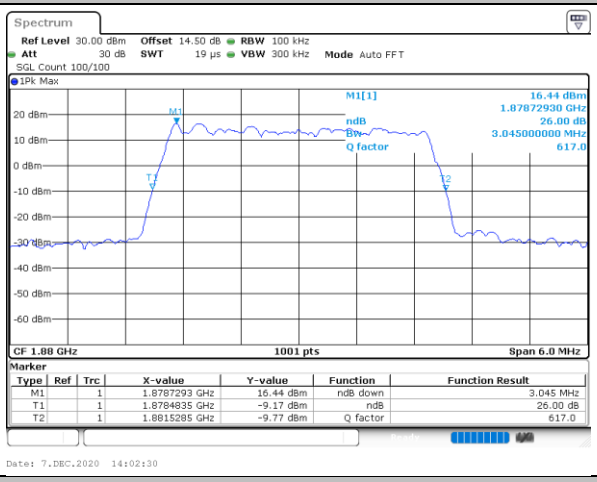
Lowest Channel / 3MHz / 16QAM



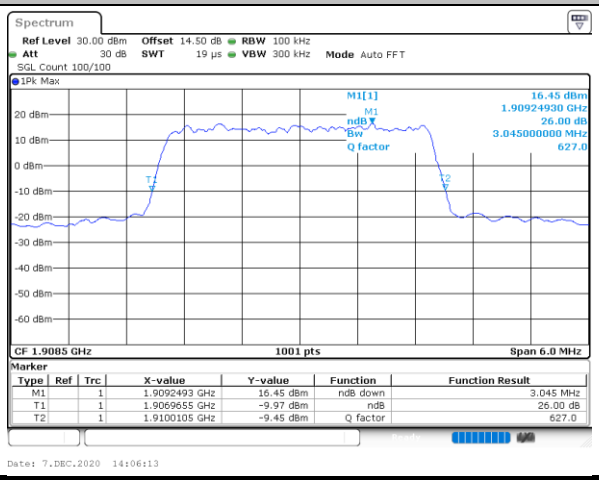
Middle Channel / 3MHz / QPSK



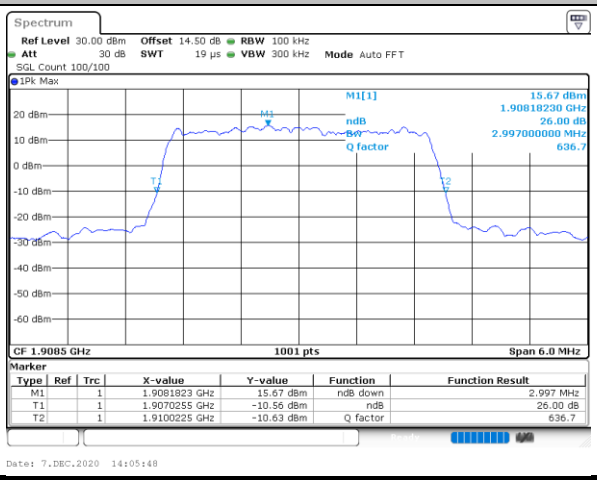
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

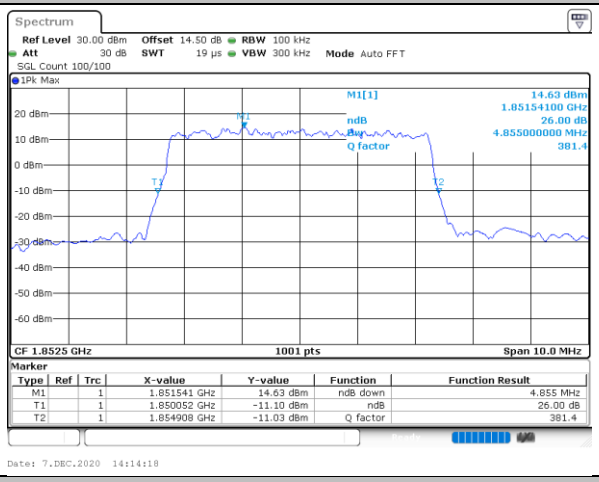


Highest Channel / 3MHz / 16QAM

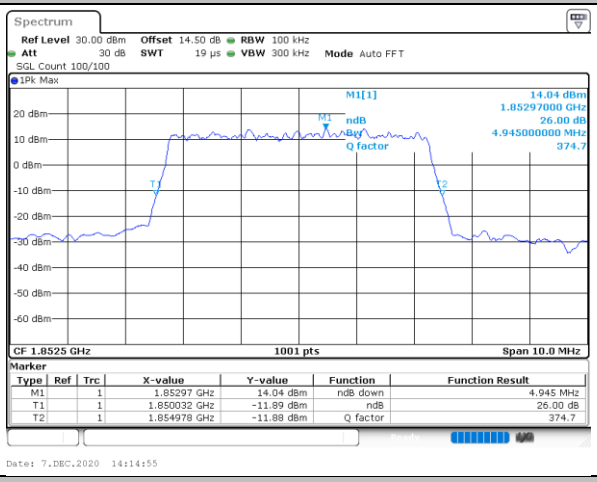


LTE Band 2

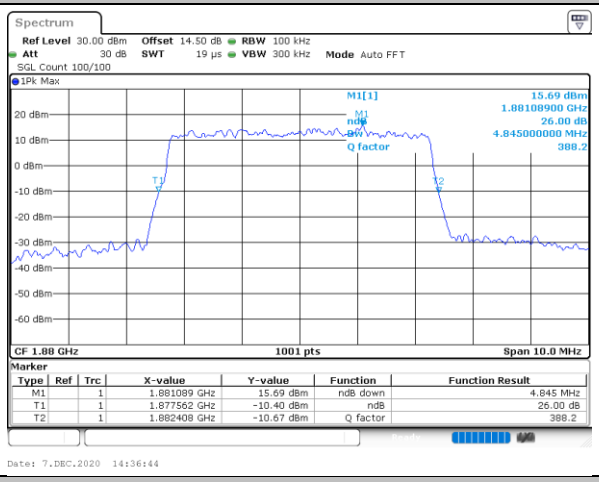
Lowest Channel / 5MHz / QPSK



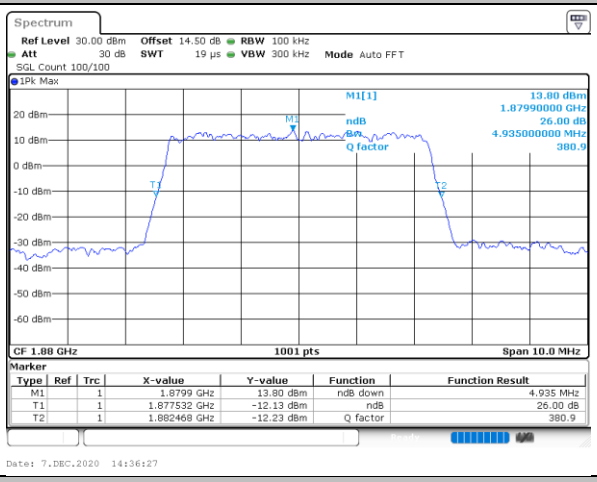
Lowest Channel / 5MHz / 16QAM



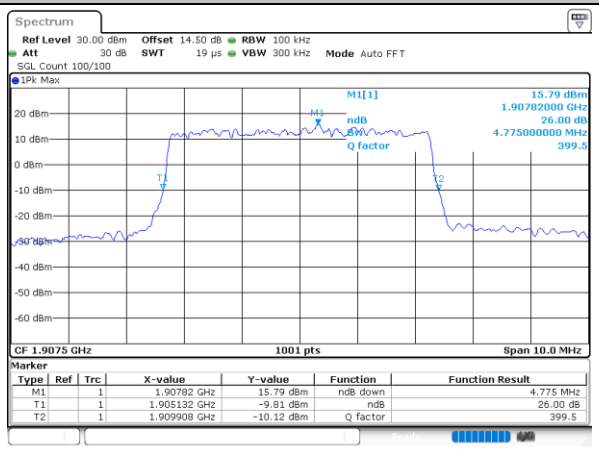
Middle Channel / 5MHz / QPSK



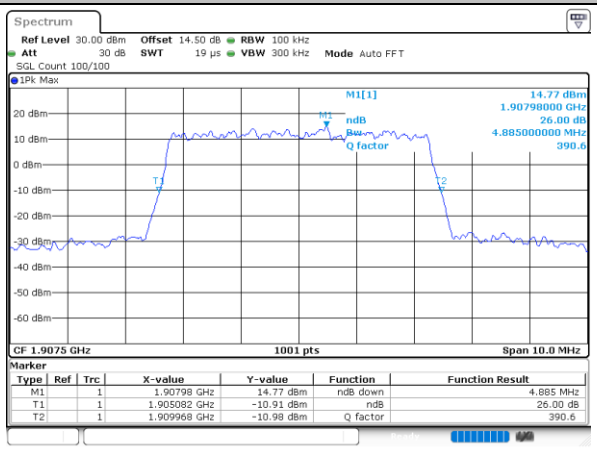
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

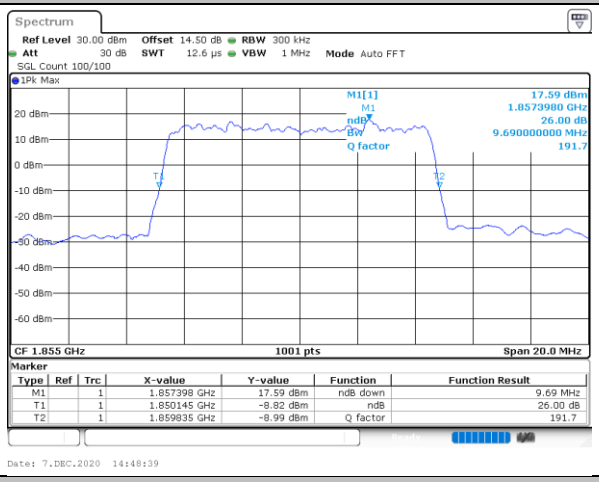


Highest Channel / 5MHz / 16QAM

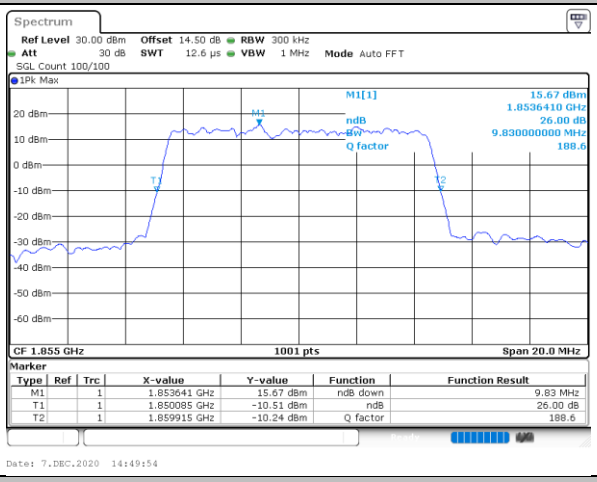


LTE Band 2

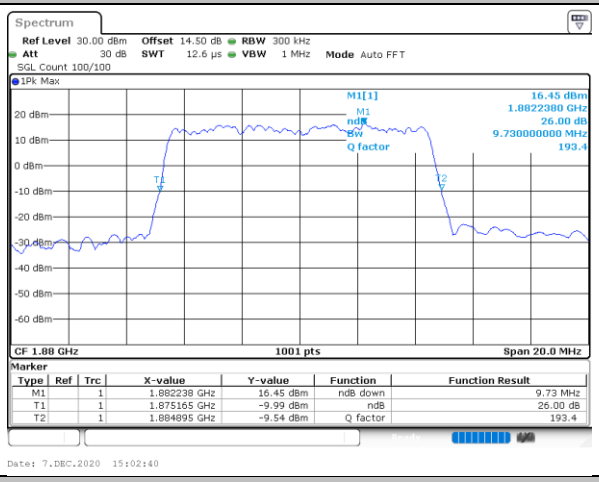
Lowest Channel / 10MHz / QPSK



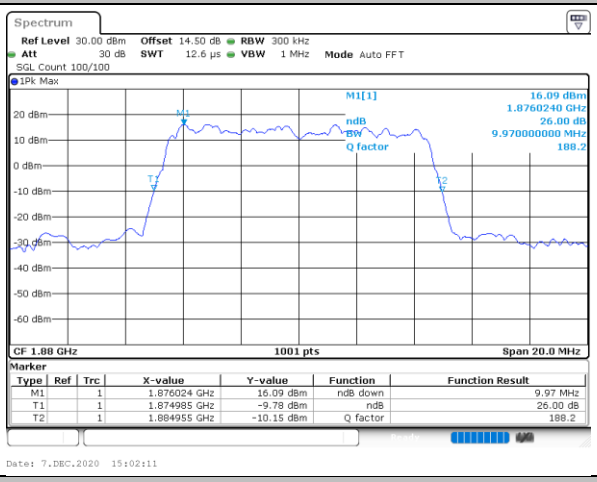
Lowest Channel / 10MHz / 16QAM



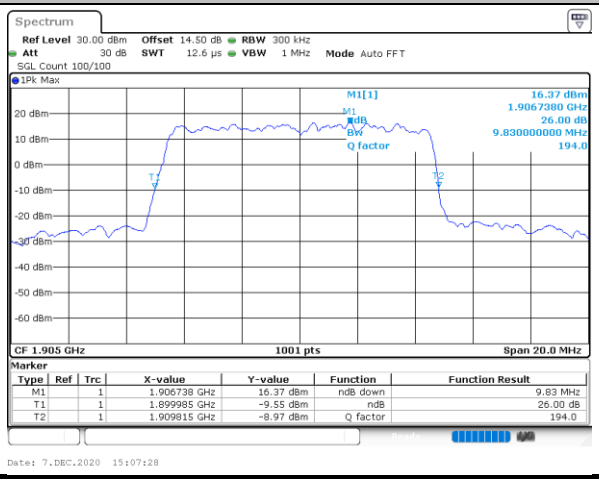
Middle Channel / 10MHz / QPSK



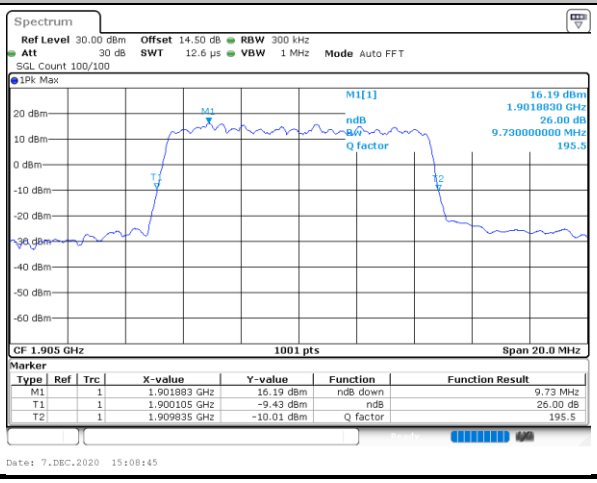
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

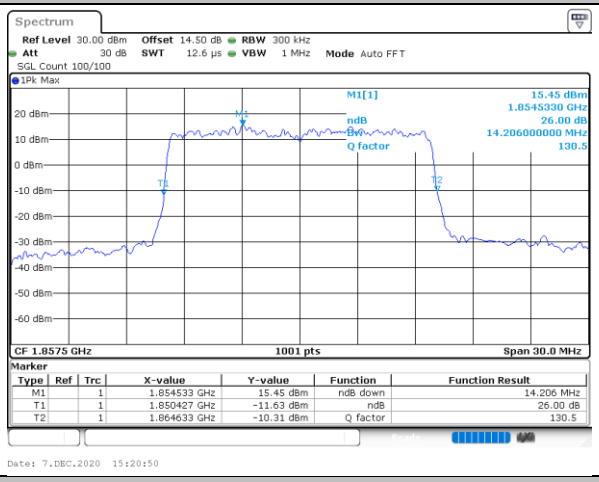


Highest Channel / 10MHz / 16QAM

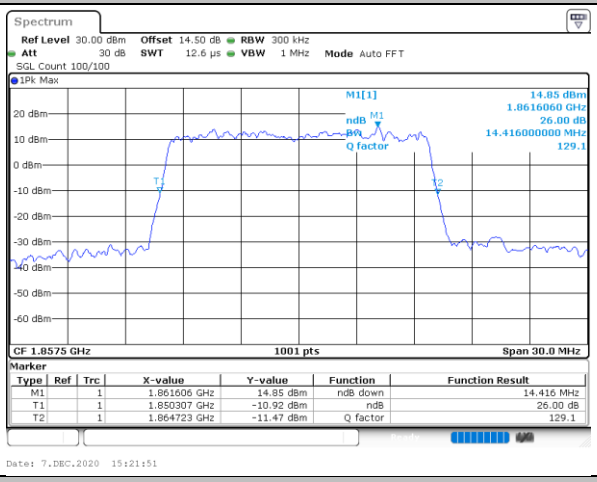


LTE Band 2

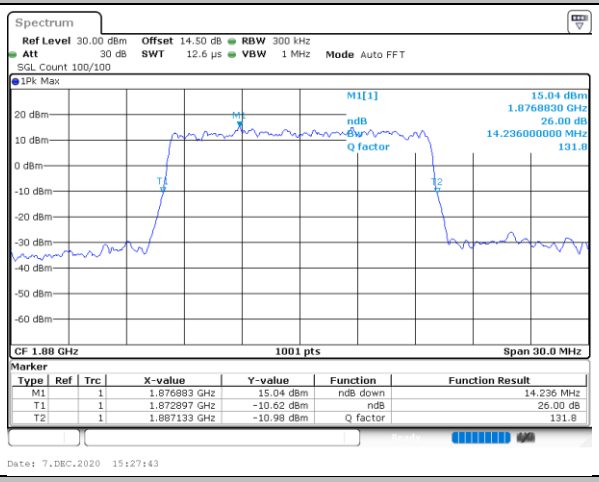
Lowest Channel / 15MHz / QPSK



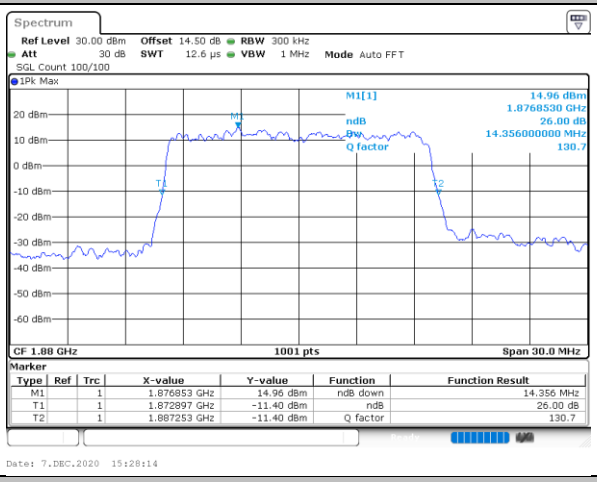
Lowest Channel / 15MHz / 16QAM



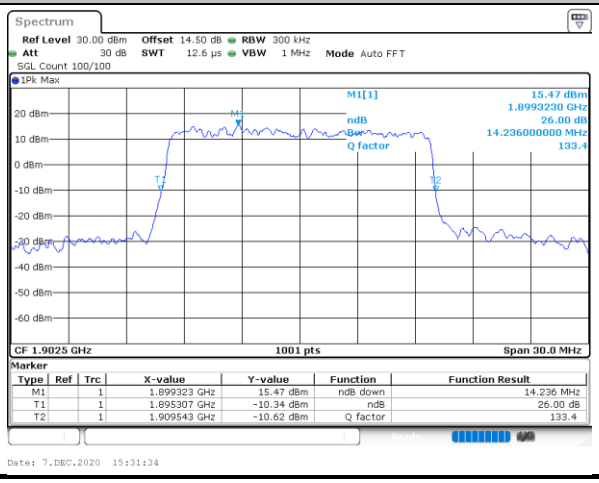
Middle Channel / 15MHz / QPSK



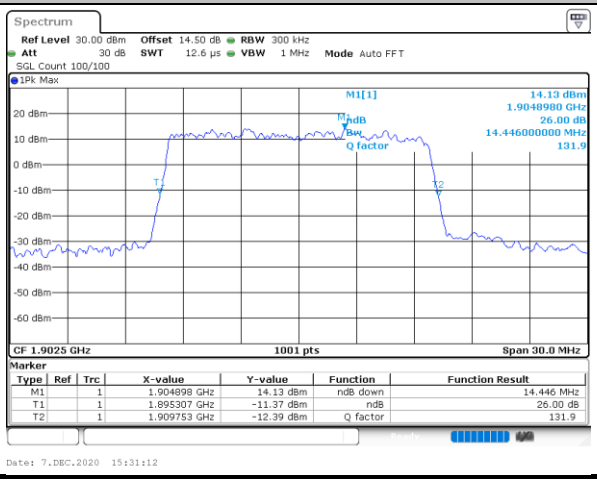
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

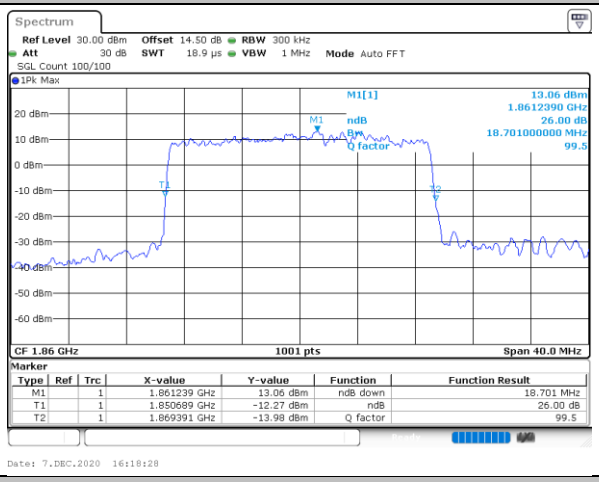


Highest Channel / 15MHz / 16QAM

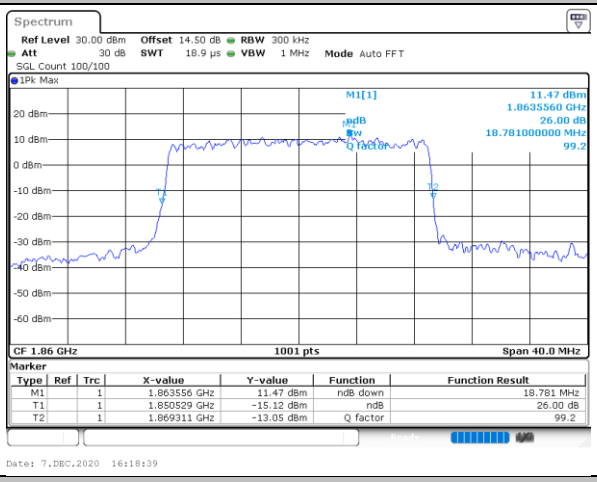


LTE Band 2

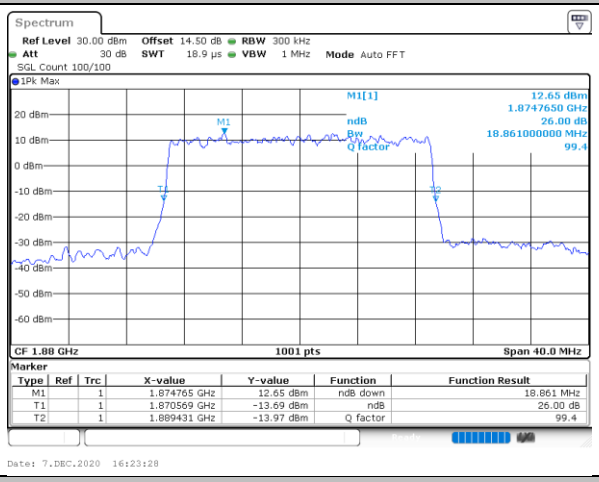
Lowest Channel / 20MHz / QPSK



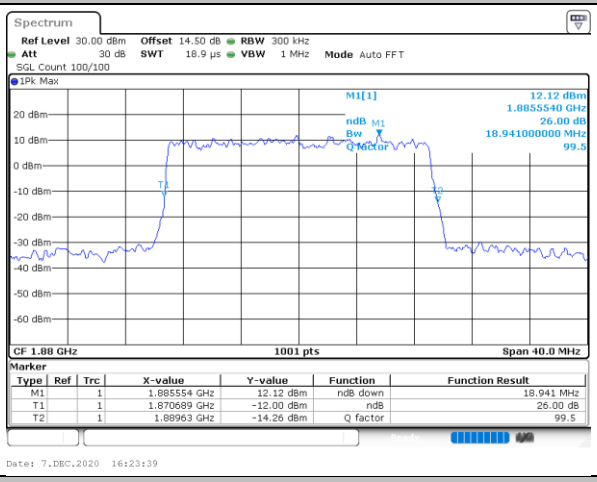
Lowest Channel / 20MHz / 16QAM



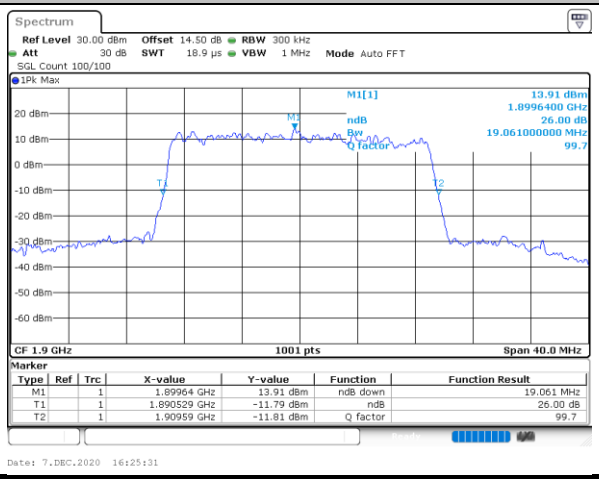
Middle Channel / 20MHz / QPSK



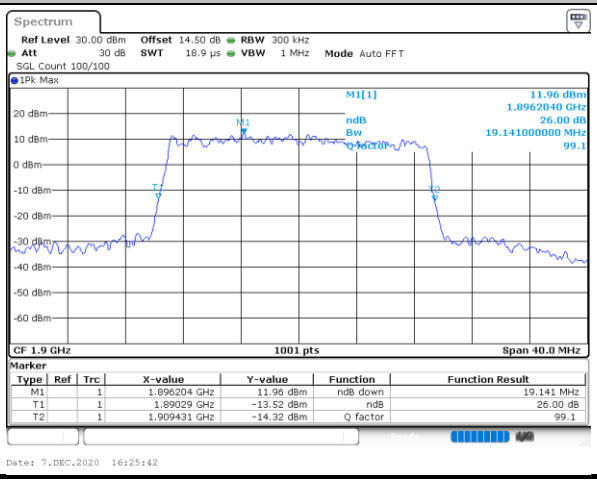
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

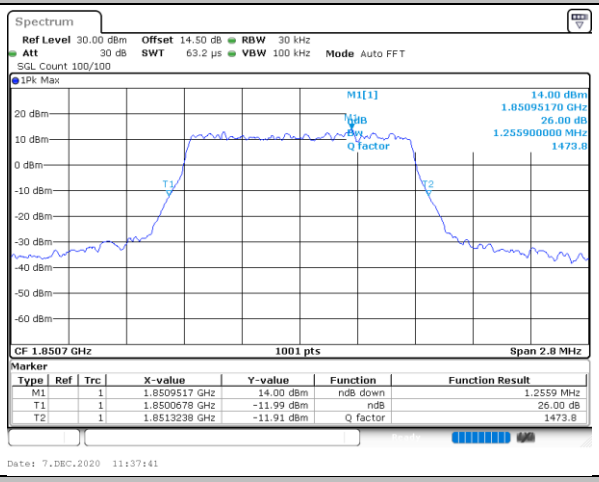


Highest Channel / 20MHz / 16QAM

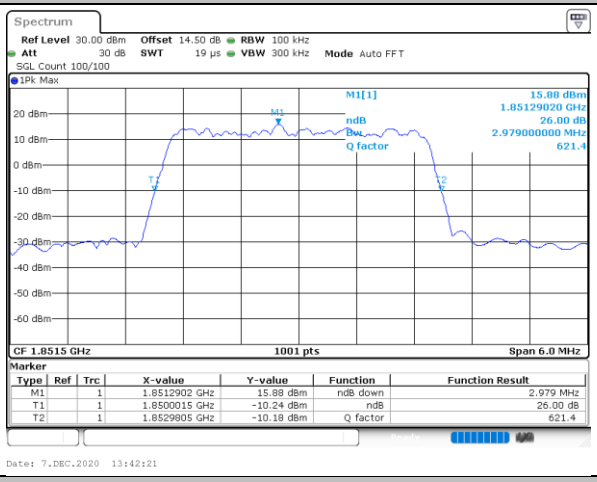


LTE Band 2

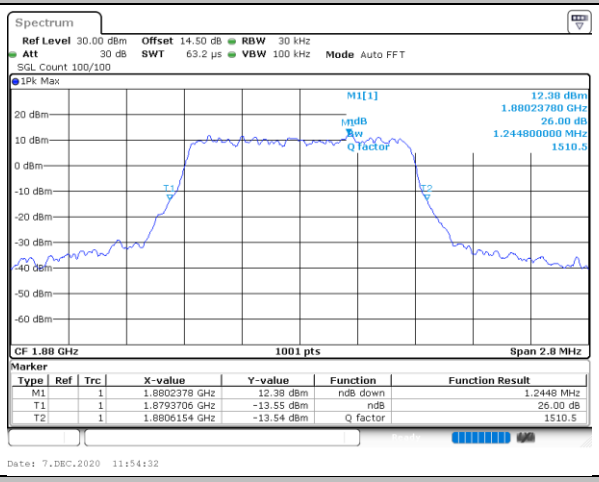
Lowest Channel / 1.4MHz / 64QAM



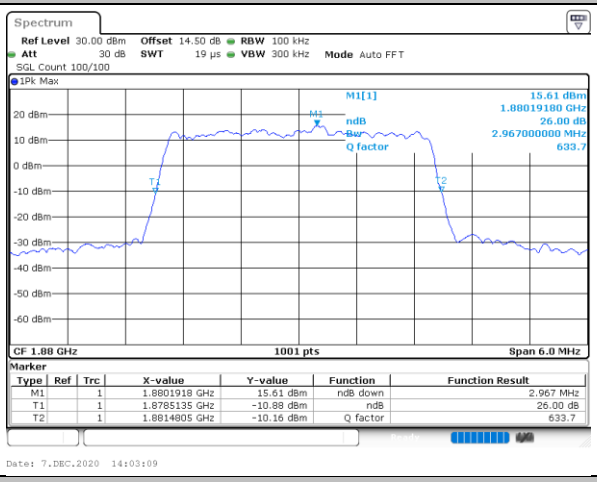
Lowest Channel / 3MHz / 64QAM



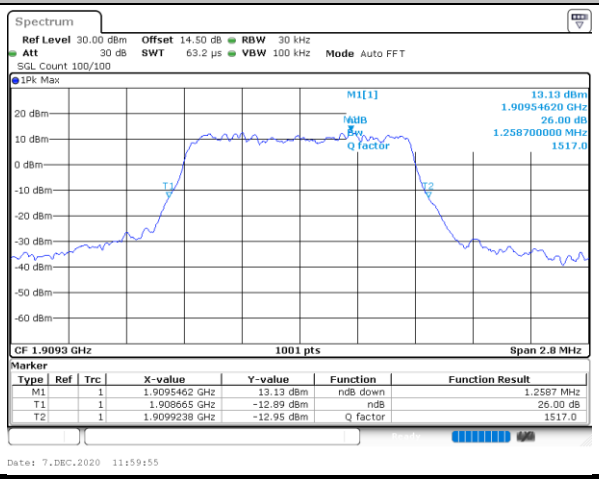
Middle Channel / 1.4MHz / 64QAM



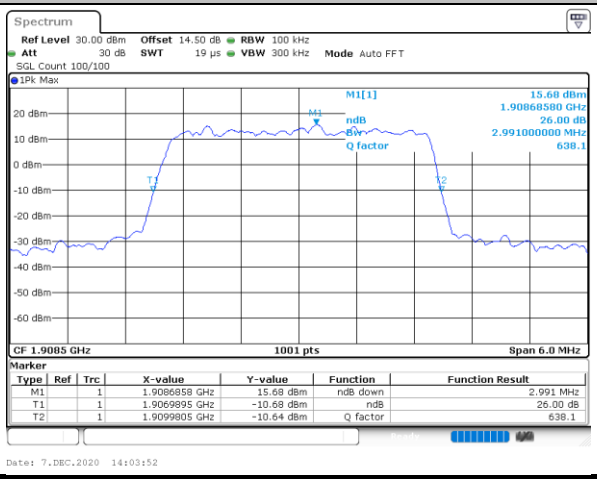
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

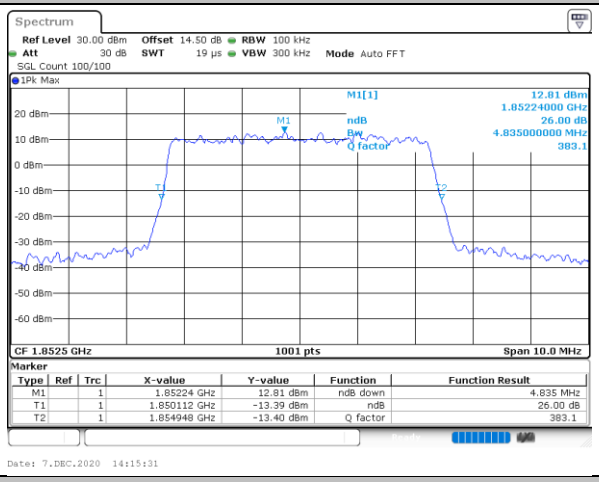


Highest Channel / 3MHz / 64QAM

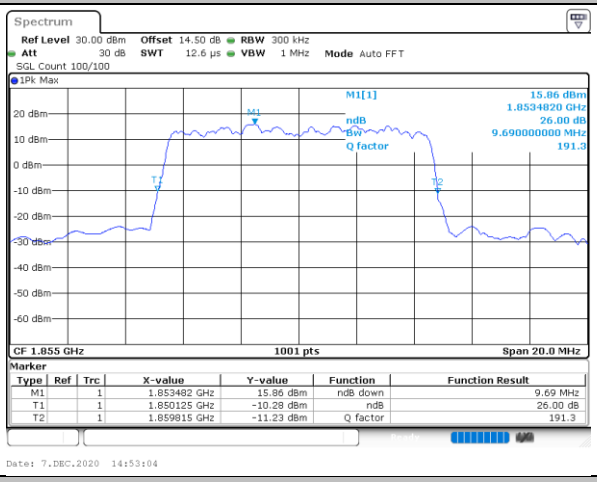


LTE Band 2

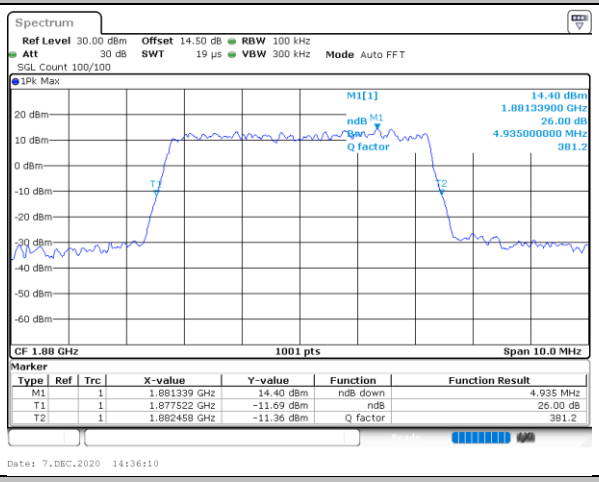
Lowest Channel / 5MHz / 64QAM



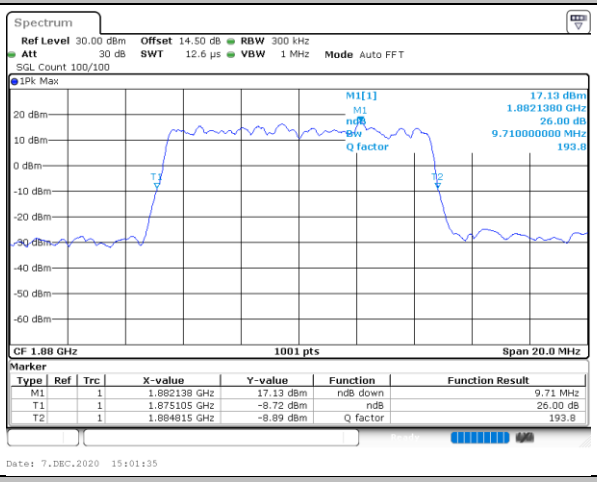
Lowest Channel / 10MHz / 64QAM



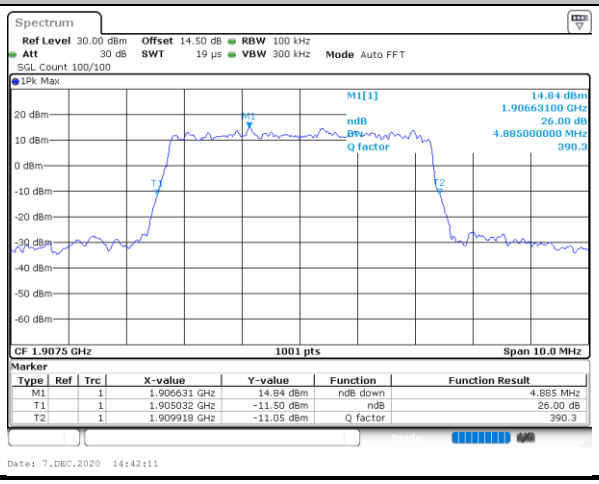
Middle Channel / 5MHz / 64QAM



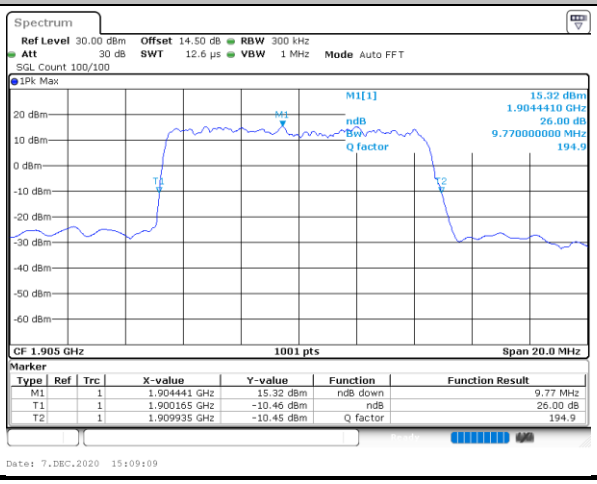
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

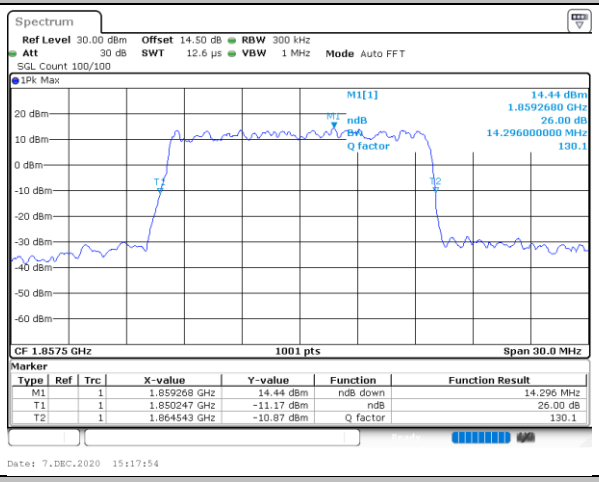


Highest Channel / 10MHz / 64QAM

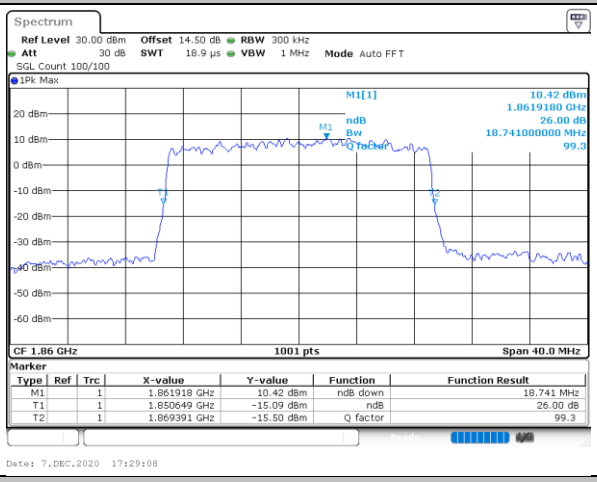


LTE Band 2

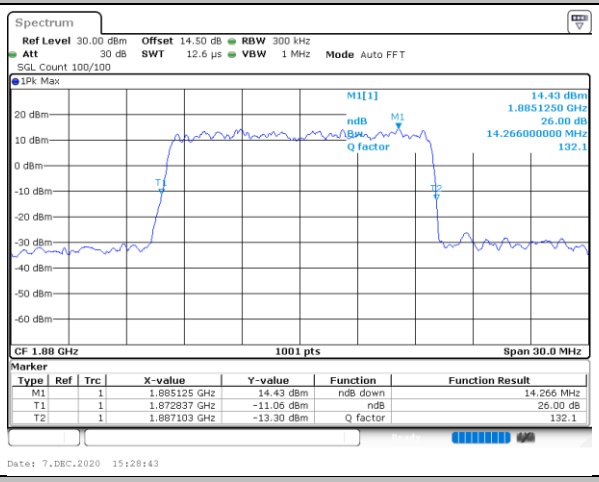
Lowest Channel / 15MHz / 64QAM



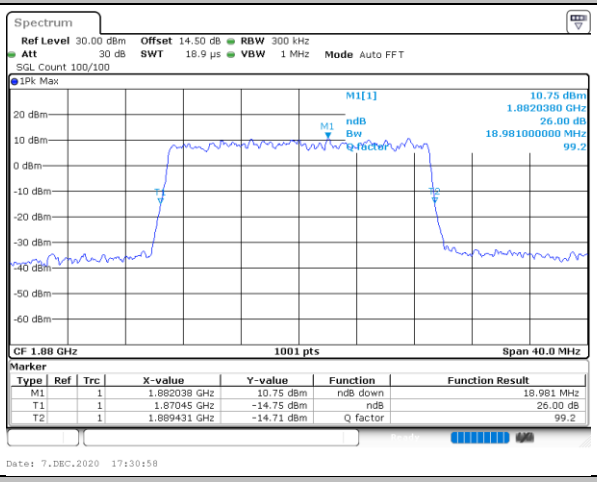
Lowest Channel / 20MHz / 64QAM



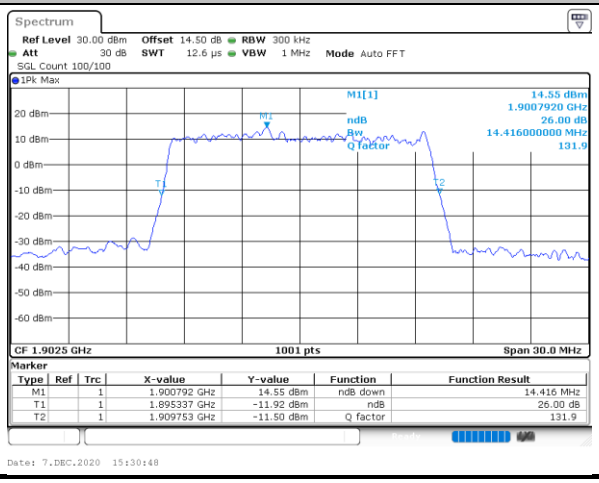
Middle Channel / 15MHz / 64QAM



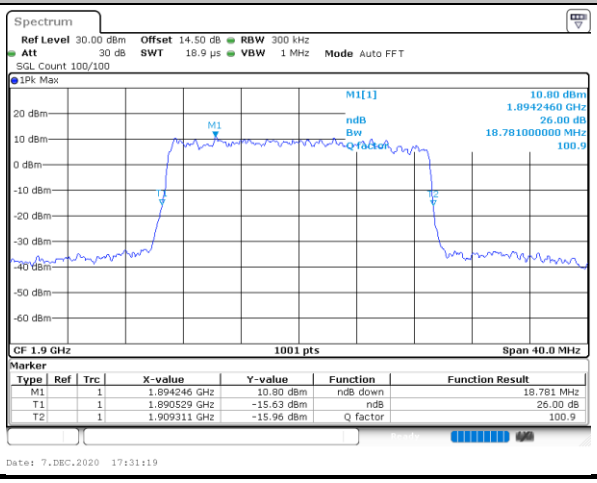
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

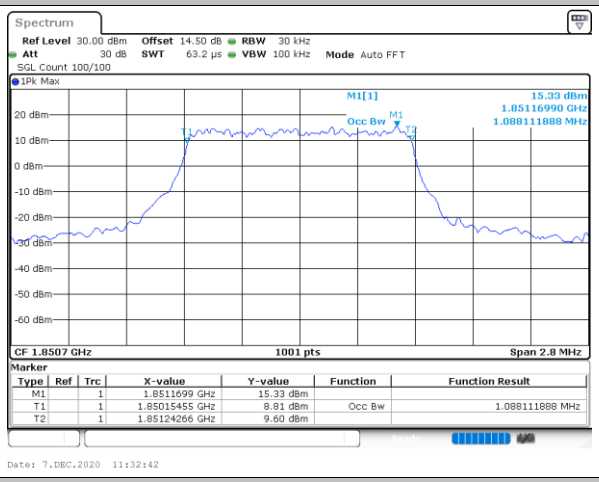


Occupied Bandwidth

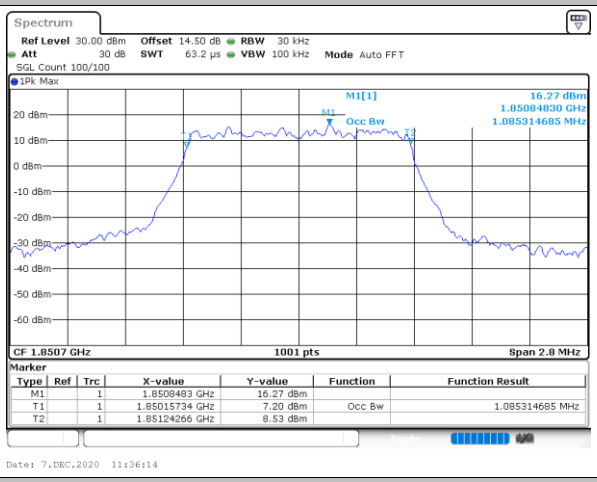
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.72	4.48	4.47	8.97	9.01	13.40	13.46	17.74	17.82
Middle CH	1.09	1.09	2.73	2.71	4.50	4.49	9.01	9.01	13.49	13.43	17.82	17.94
Highest CH	1.09	1.09	2.73	2.70	4.49	4.50	8.99	8.97	13.43	13.40	17.82	17.90
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.52	-	8.97	-	13.49	-	17.86	-
Middle CH	1.09	-	2.72	-	4.50	-	9.01	-	13.31	-	17.86	-
Highest CH	1.09	-	2.73	-	4.50	-	9.05	-	13.37	-	17.82	-

LTE Band 2

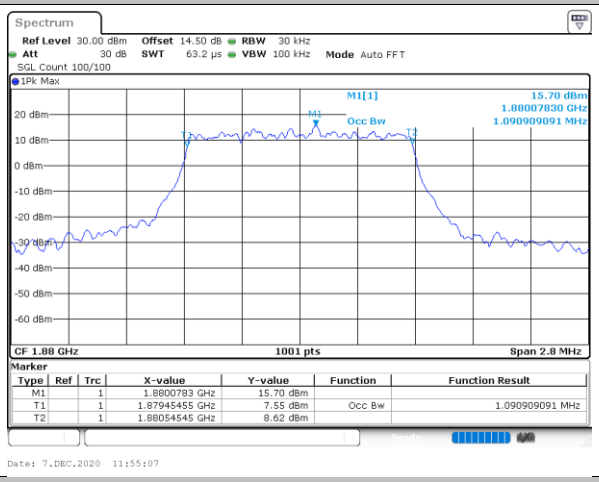
Lowest Channel / 1.4MHz / QPSK



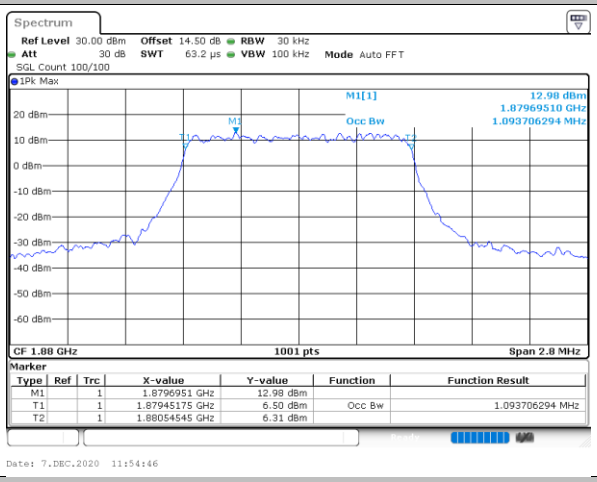
Lowest Channel / 1.4MHz / 16QAM



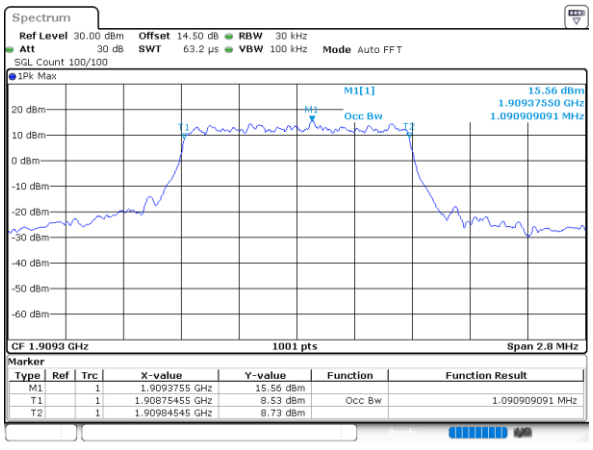
Middle Channel / 1.4MHz / QPSK



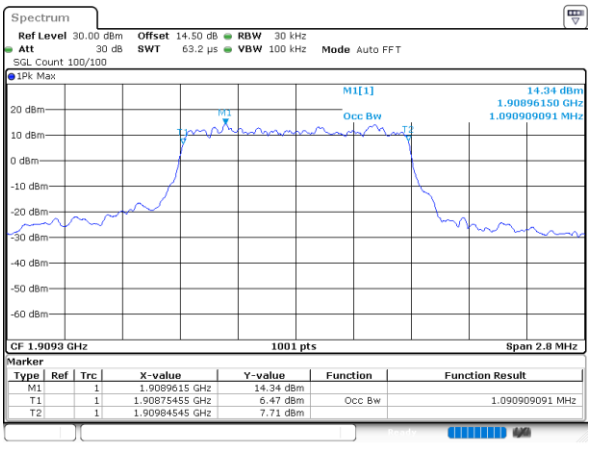
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

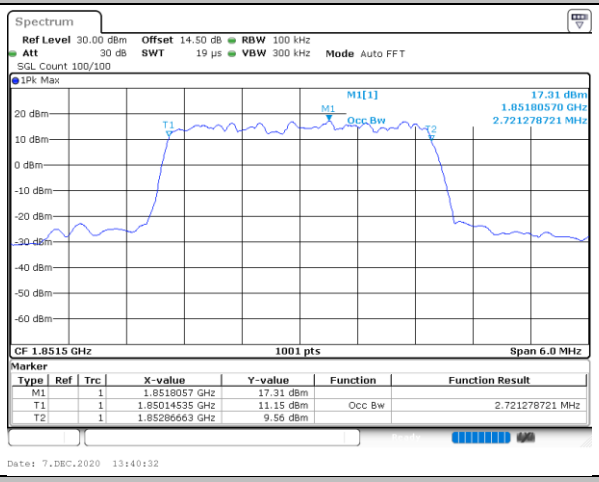


Highest Channel / 1.4MHz / 16QAM

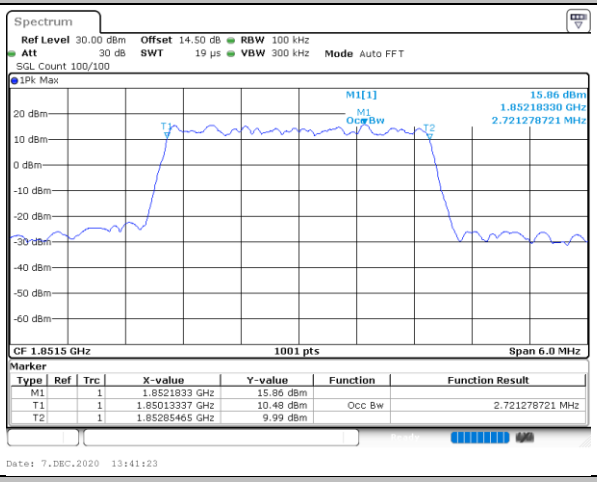


LTE Band 2

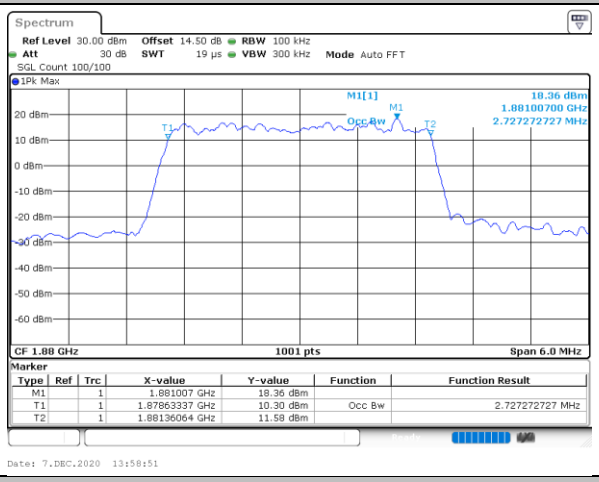
Lowest Channel / 3MHz / QPSK



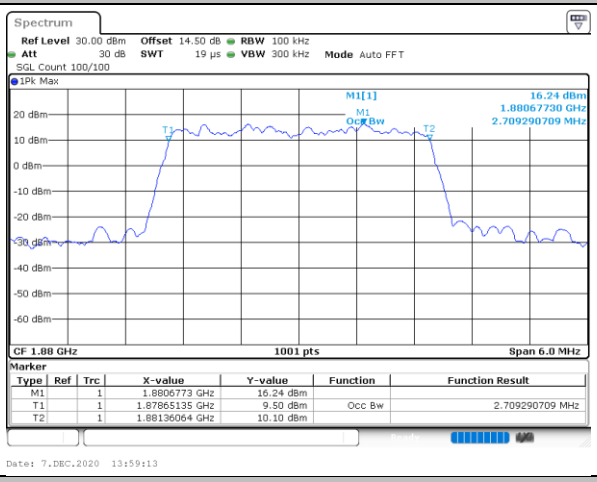
Lowest Channel / 3MHz / 16QAM



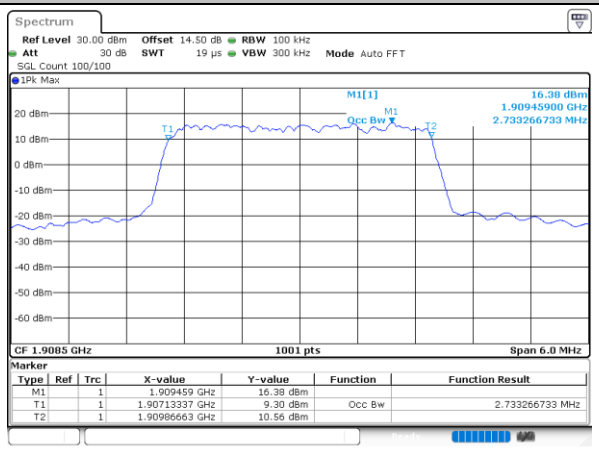
Middle Channel / 3MHz / QPSK



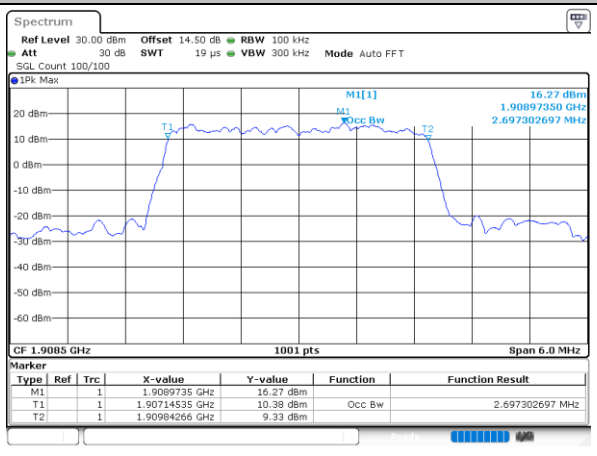
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

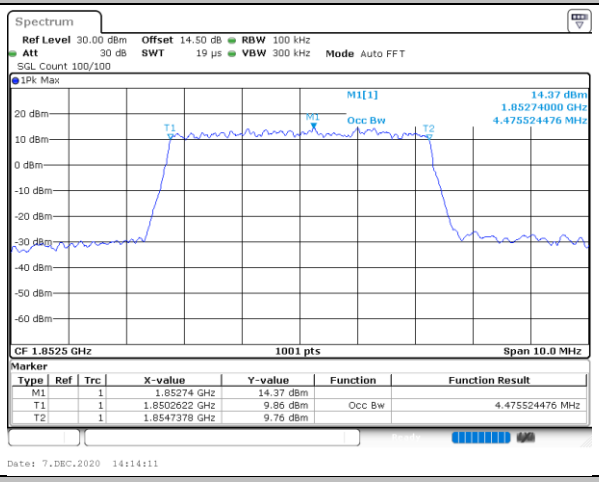


Highest Channel / 3MHz / 16QAM

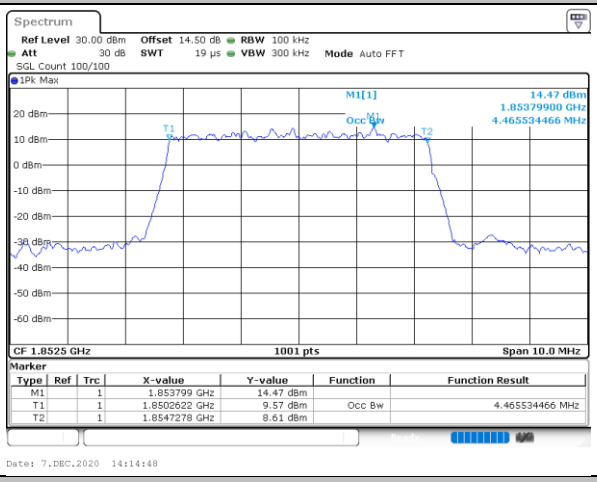


LTE Band 2

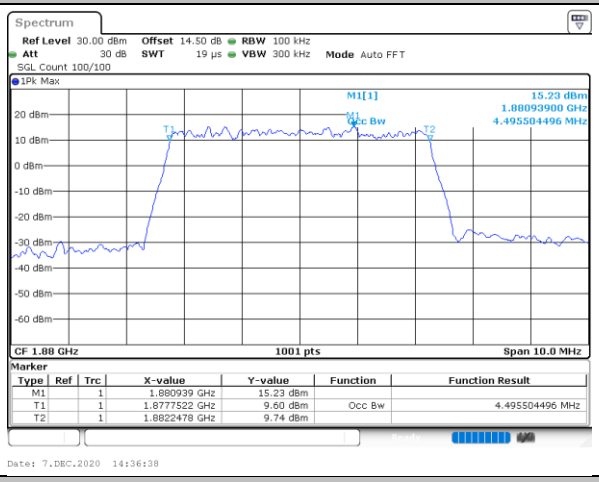
Lowest Channel / 5MHz / QPSK



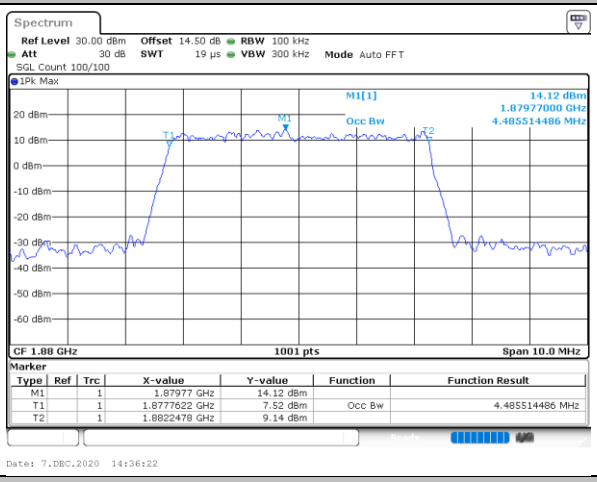
Lowest Channel / 5MHz / 16QAM



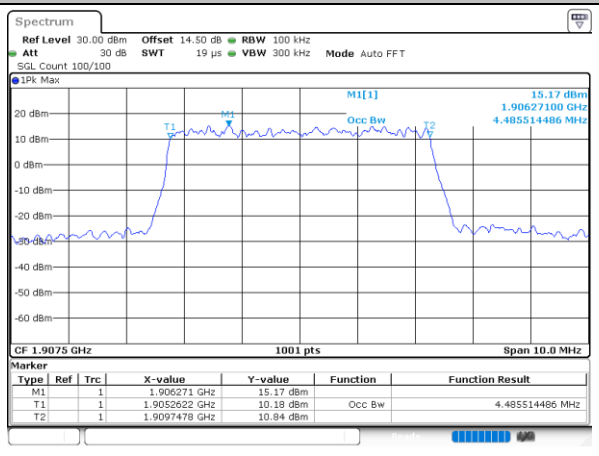
Middle Channel / 5MHz / QPSK



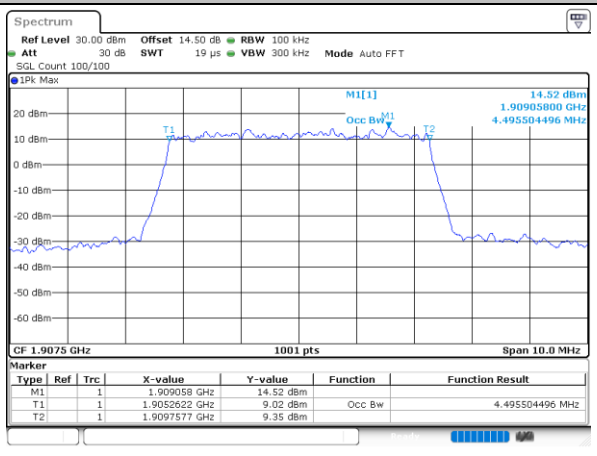
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

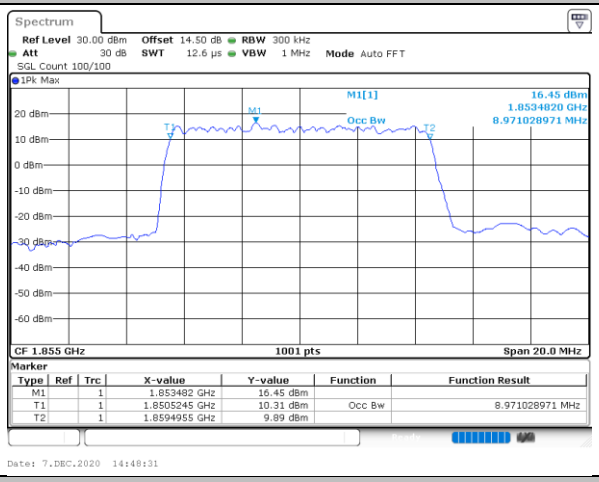


Highest Channel / 5MHz / 16QAM

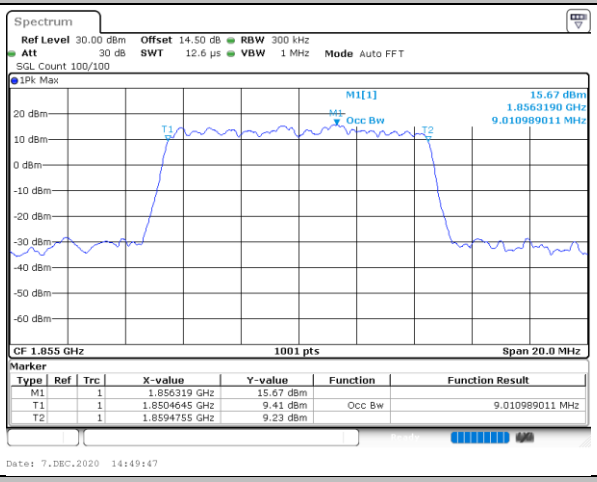


LTE Band 2

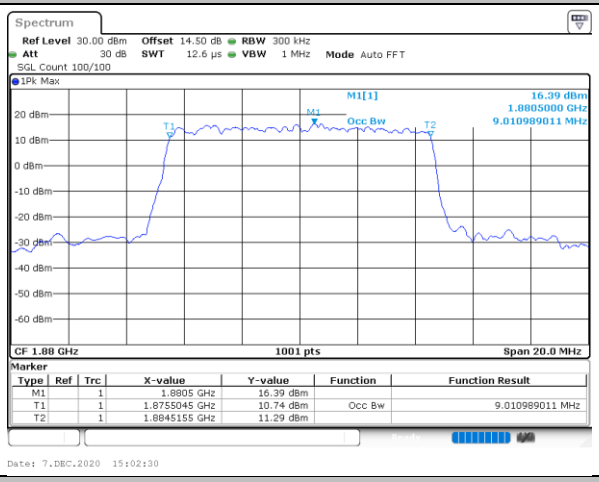
Lowest Channel / 10MHz / QPSK



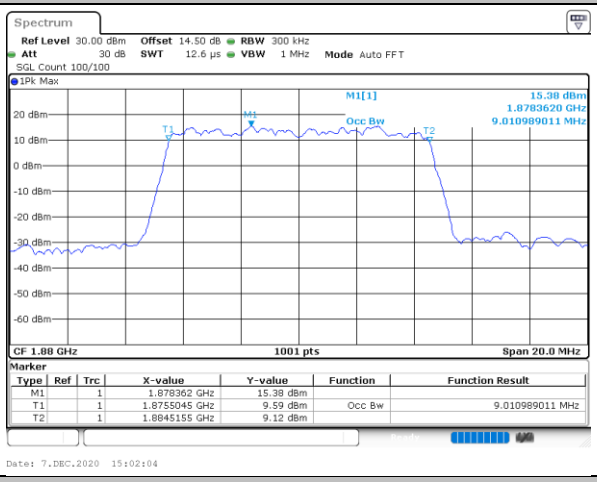
Lowest Channel / 10MHz / 16QAM



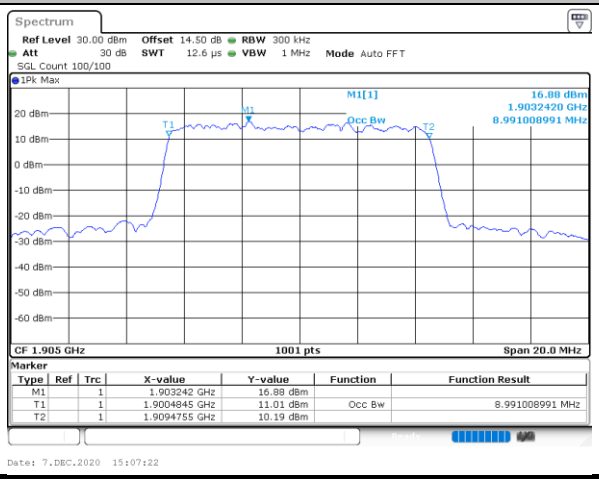
Middle Channel / 10MHz / QPSK



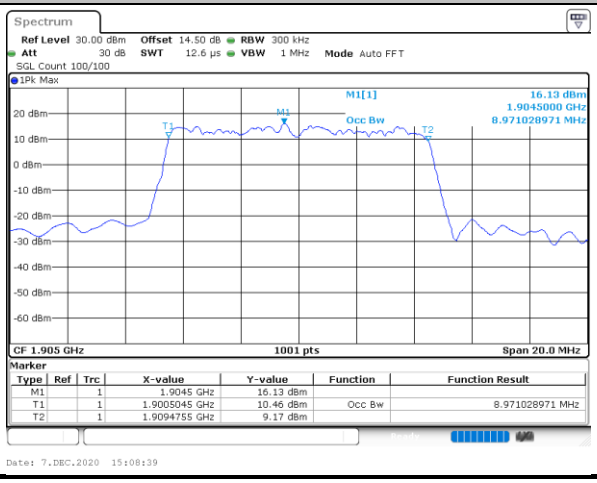
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

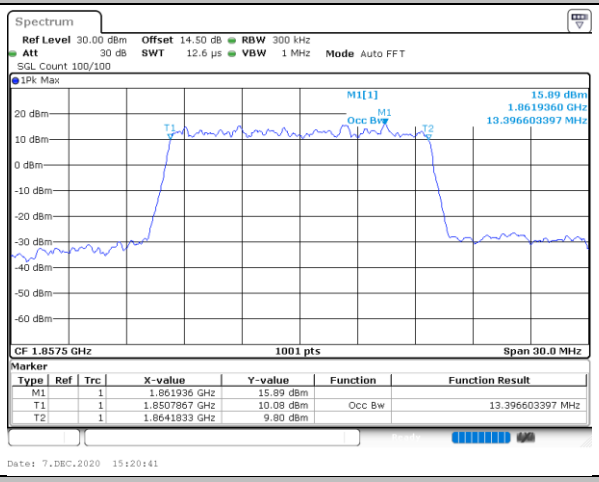


Highest Channel / 10MHz / 16QAM

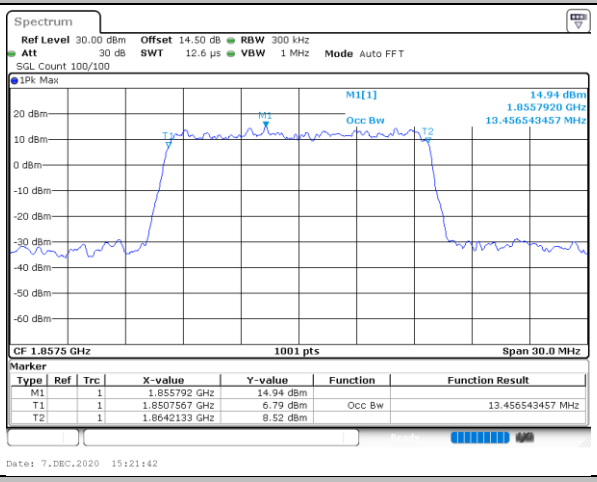


LTE Band 2

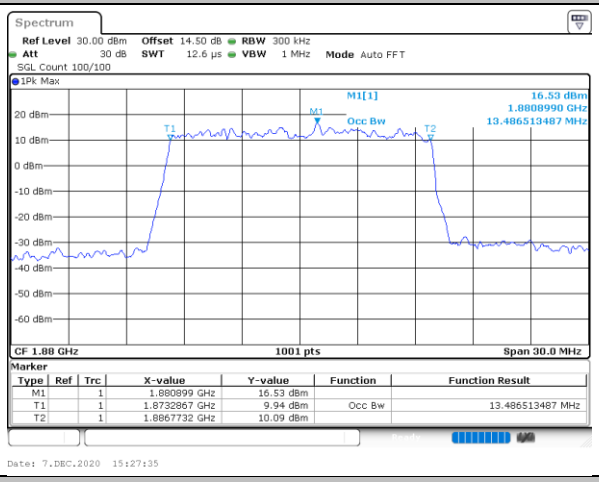
Lowest Channel / 15MHz / QPSK



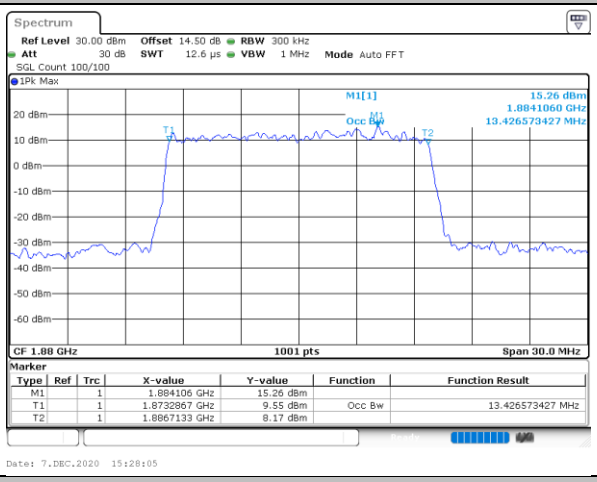
Lowest Channel / 15MHz / 16QAM



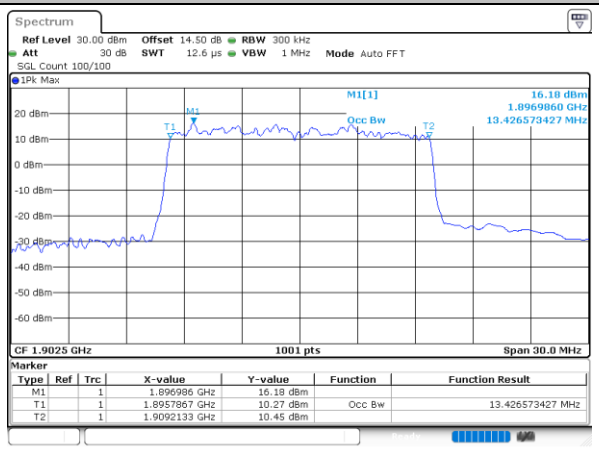
Middle Channel / 15MHz / QPSK



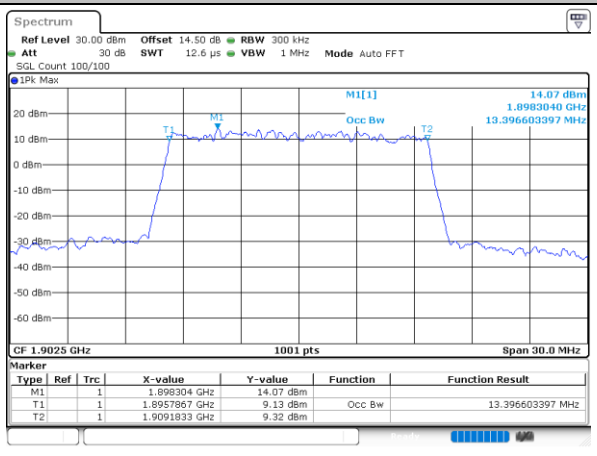
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

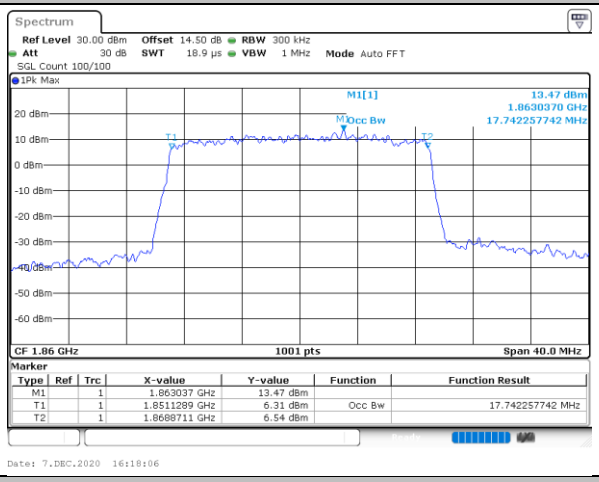


Highest Channel / 15MHz / 16QAM

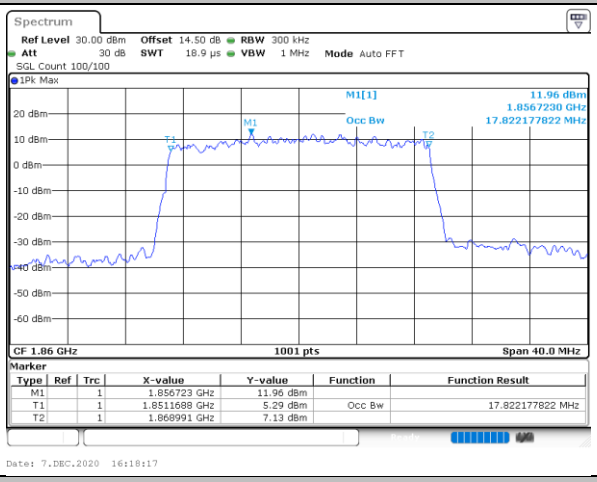


LTE Band 2

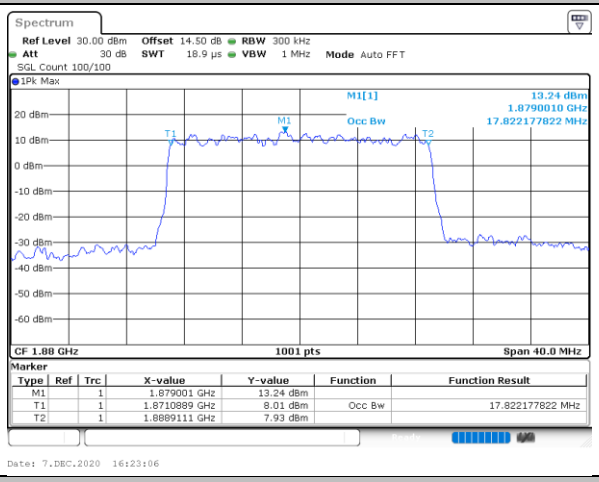
Lowest Channel / 20MHz / QPSK



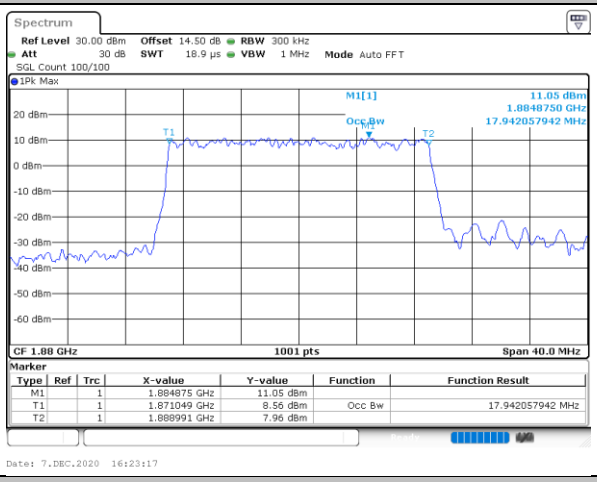
Lowest Channel / 20MHz / 16QAM



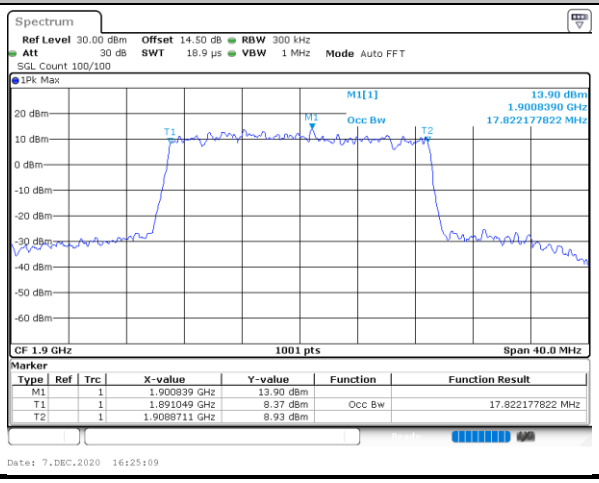
Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM