



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2527-1
FCC ID : IHDT56AV5
STANDARD : 47 CFR Part 27(F), 27(H), 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Mar. 19, 2025 ~ Apr. 10, 2025

We, Sporton International Inc. (Kunshan), 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.

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

Jason Jia

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG530724C	Rev. 01	Initial issue of report	Apr. 21, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.99 dB at 1559.50 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



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	XT2527-1
FCC ID	IHDT56AV5
IMEI Code	Conducted: 358887330041698/358887330041706 Radiation: 358887330039734/358887330039742
HW Version	DVT2
SW Version	V2VN35.50
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz



	LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<ANT0>: LTE Band 12 : 22.61 dBm LTE Band 13 : 22.86 dBm LTE Band 17 : 22.53 dBm <ANT1>: LTE Band 7 : 22.84 dBm LTE CA_7C : 22.77 dBm LTE Band 38 : 23.03 dBm LTE Band 41 : 23.05 dBm <ANT4>: LTE Band 7 : 22.73 dBm LTE Band 38 : 22.96 dBm LTE Band 41 : 22.99 dBm
Antenna Gain	<ANT0>: LTE Band 12 : -5.0 dBi LTE Band 13 : -5.6 dBi LTE Band 17 : -5.0 dBi <ANT1>: LTE Band 7 : -2.3 dBi LTE Band 38 : -2.3 dBi LTE Band 41 : -2.3 dBi <ANT4>: LTE Band 7 : -2.1 dBi LTE Band 38 : -2.1 dBi LTE Band 41 : -2.1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 0 for LTE Band12/13/17 and Antenna 4 for LTE Band7/38/41 and Antenna 1 for LTE Band7C are shown in the report.
2. The device supports two PAs for LTE Band 7/38/41, (main PA, and other PA only support NSA mode), both the PAs are full tested, only the worst EIRP are shown in the report. According to the maximum power, LTE B41 covers B38 for other PA.

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1153	4M51G7D	0.0906	4M49W7D
10	2505.0 ~ 2565.0	0.1135	9M05G7D	0.0910	9M07W7D
15	2507.5 ~ 2562.5	0.1138	13M5G7D	0.0910	13M5W7D
20	2510.0 ~ 2560.0	0.1156	17M9G7D	0.0940	17M9W7D
LTE Band 12		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.0341	1M09G7D	0.0305	1M09W7D
3	700.5 ~ 714.5	0.0348	2M72G7D	0.0301	2M71W7D
5	701.5 ~ 713.5	0.0348	4M49G7D	0.0305	4M49W7D
10	704.0 ~ 711.0	0.0352	9M01G7D	0.0307	9M01W7D
LTE Band 13		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	779.5 ~ 784.5	0.0313	4M49G7D	0.0272	4M49W7D
10	782.0	0.0324	9M07G7D	0.0280	9M03W7D
LTE Band 17		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	706.5 ~ 713.5	0.0338	4M49G7D	0.0277	4M49W7D
10	709.0 ~ 711.0	0.0345	9M01G7D	0.0282	9M01W7D



LTE Band 38		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1191	4M50G7D	0.0951	4M50W7D
10	2575.0 ~ 2615.0	0.1211	9M05G7D	0.0940	9M03W7D
15	2577.5 ~ 2612.5	0.1202	13M5G7D	0.0940	13M5W7D
20	2580.0 ~ 2610.0	0.1219	17M9G7D	0.0964	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.1197	4M50G7D	0.0953	4M50W7D
10	2501.0 ~ 2685.0	0.1199	9M05G7D	0.0940	9M03W7D
15	2503.5 ~ 2682.5	0.1194	13M5G7D	0.0957	13M5W7D
20	2506.0 ~ 2680.0	0.1227	17M9G7D	0.0955	17M9W7D
LTE Band 7 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz		0.1062	28M1G7D	0.0904	28M2W7D
15MHz+15MHz		0.1059	28M8G7D	0.0918	28M8W7D
15MHz+20MHz		0.1050	33M0G7D	0.0914	33M1W7D
15MHz+10MHz		0.1059	23M6G7D	0.0914	23M6W7D
20MHz+10MHz		0.1079	28M3G7D	0.0910	28M0W7D
20MHz+15MHz		0.1067	32M8G7D	0.0897	32M3W7D
20MHz+20MHz		0.1114	37M7G7D	0.0957	37M8W7D

Note:

1. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
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.
3. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

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

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

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

Test Firm	Sporton International Inc. (ShenZhen)		
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 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 4.4 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- 47 CFR Part 27(F), 27(H), 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.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-331L
AC Adapter 1(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-332L
AC Adapter 1(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-333L
AC Adapter 1(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-335L
AC Adapter 1(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-336L
AC Adapter 1(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-337L
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-331L
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-332L
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-333L
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-336L
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-337L
Battery 1	Brand Name	Motorola(NVT)	Model Name	RA52
Battery 2	Brand Name	Motorola(SUNWODA)	Model Name	RA52
USB Cable 1	Brand Name	Motorola(Washin)	Model Name	HX-ZN-34
USB Cable 2	Brand Name	Motorola(Juwei)	Model Name	JWUB1928-ZN01H
Wireless Earphones	Brand Name	Motorola	Model Name	XT2443-1



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. (Y/Z Plane)

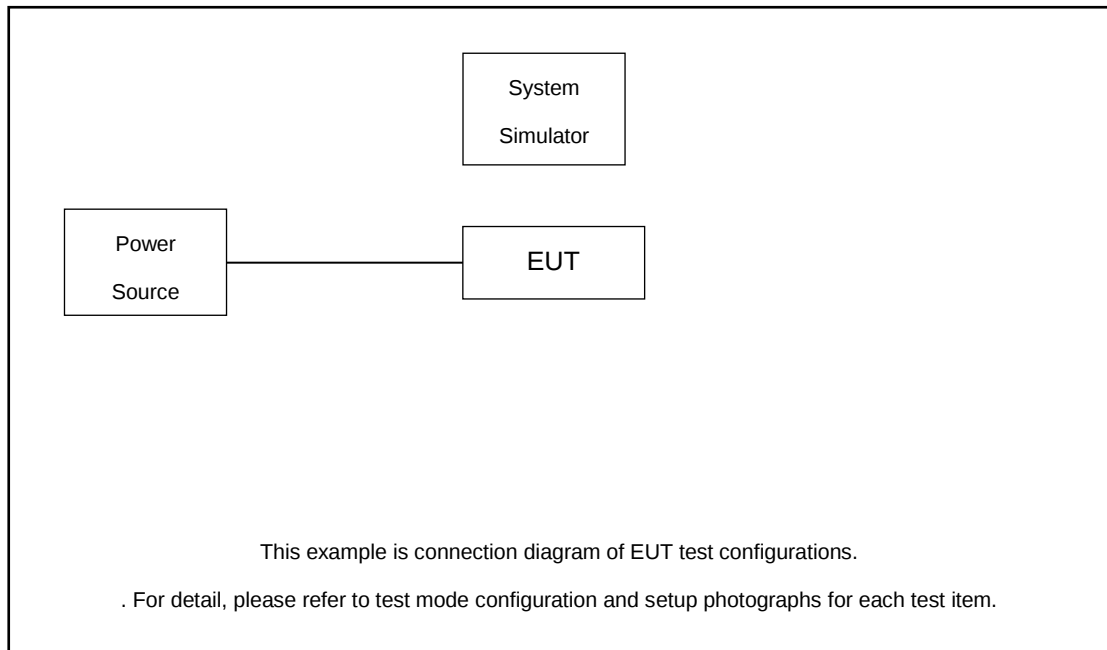
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v						v		v	
	12				v	-	-	v						v		v	
	13	-	-		v	-	-	v						v		v	
	41	-	-				v	v						v		v	
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v					v		v	
	12	v	v	v	v	-	-	v	v					v		v	
	13	-	-	v	v	-	-	v	v					v		v	
	41	-	-	v	v	v	v	v	v					v		v	
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v				v			v	v	v
	12	v	v	v	v	-	-	v				v			v	v	v
	13	-	-	v	v	-	-	v				v			v	v	v
	41	-	-	v	v	v	v	v				v			v	v	v
Frequency Stability	7	-	-		v			v						v		v	
	12				v	-	-	v						v		v	
	13	-	-		v	-	-	v						v		v	
	41	-	-		v			v						v		v	



E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	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	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	7	Worst Case														v	
	12	Worst Case														v	
	13	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.																

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v					v		v	
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v				v			v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																		v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																				

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.0 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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

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

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



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

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

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



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

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 3 Watts for LTE Band 12, Band 13 and Band 17.

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

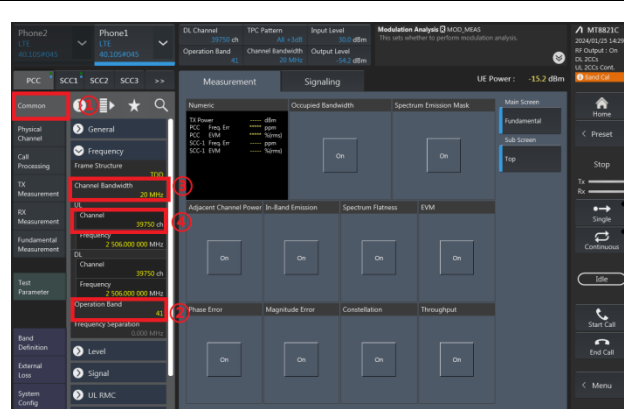
3.4.2 Test Procedures

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.

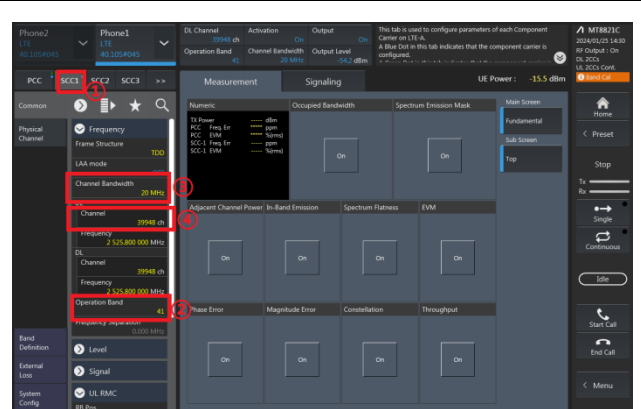
3.4.3 Test Procedures for LTE ULCA

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter PCC & SCC output ports were connected to the system simulator.
3. Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.

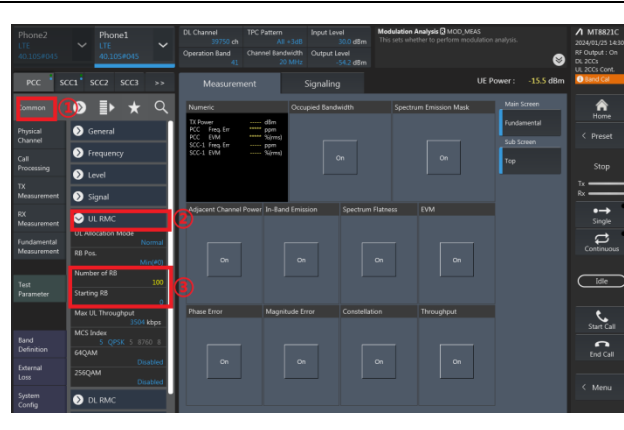
PCC config_(Channel Bandwidth / Channel / Band)



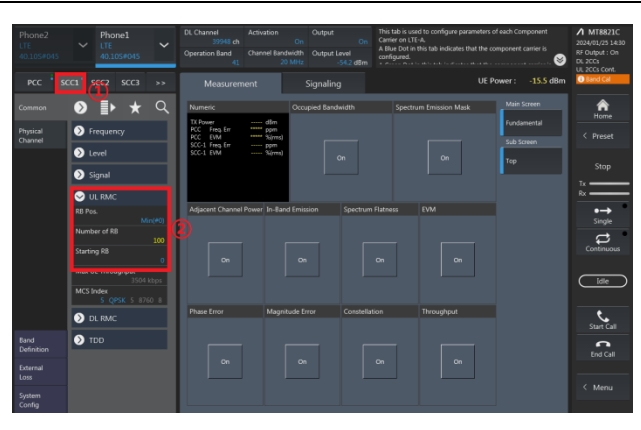
SCC config_(Channel Bandwidth / Channel / Band)



PCC config_(Number of RB / Starting RB)

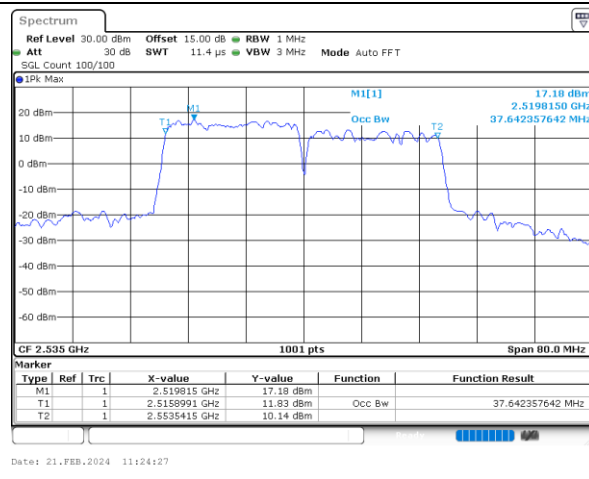


SCC config_(Number of RB / Starting RB)

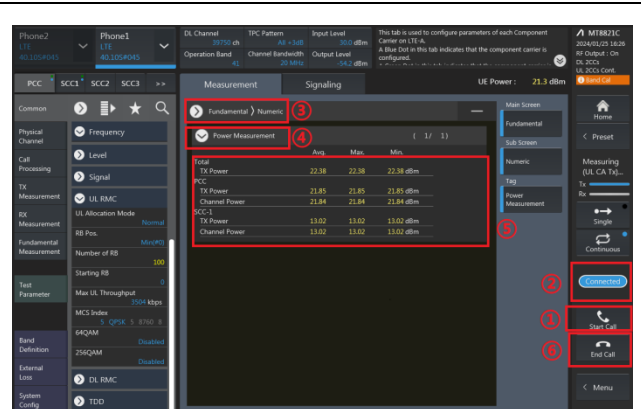


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

Check the ULCA spectrum (eg. 20M+20M)



Read the Total UL CA output power (PCC+SCC)



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

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(m)(4)

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

3.7.2 Test Procedures

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

Example:

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

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

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

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

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

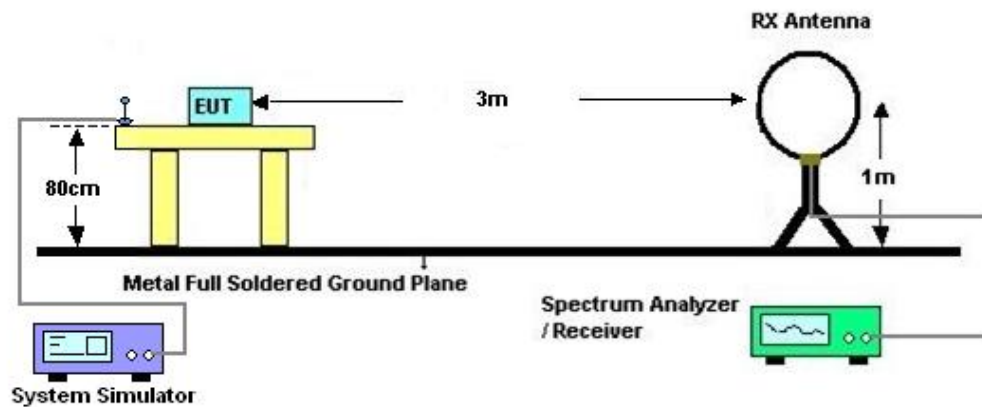
4 Radiated Test Items

4.1 Measuring Instruments

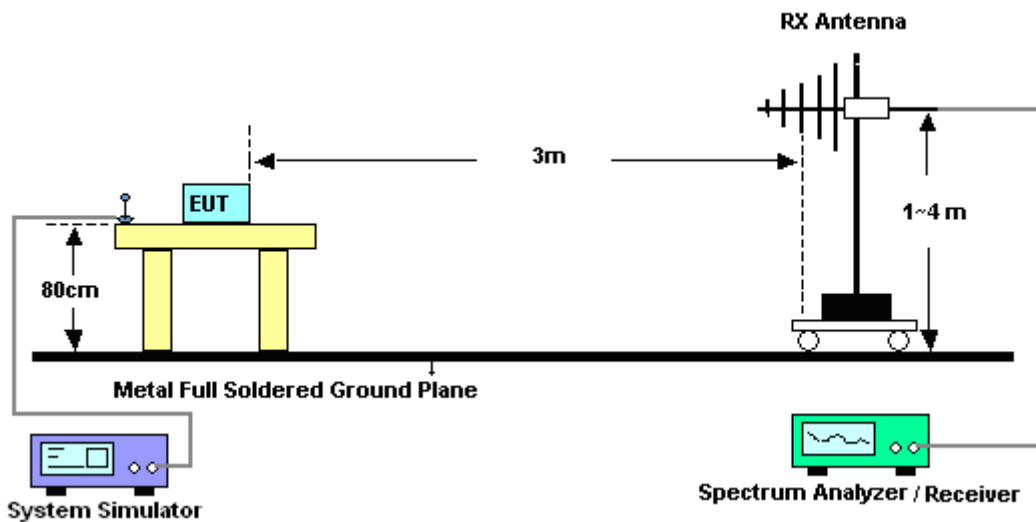
See list of measuring instruments of this test report.

4.2 Test Setup

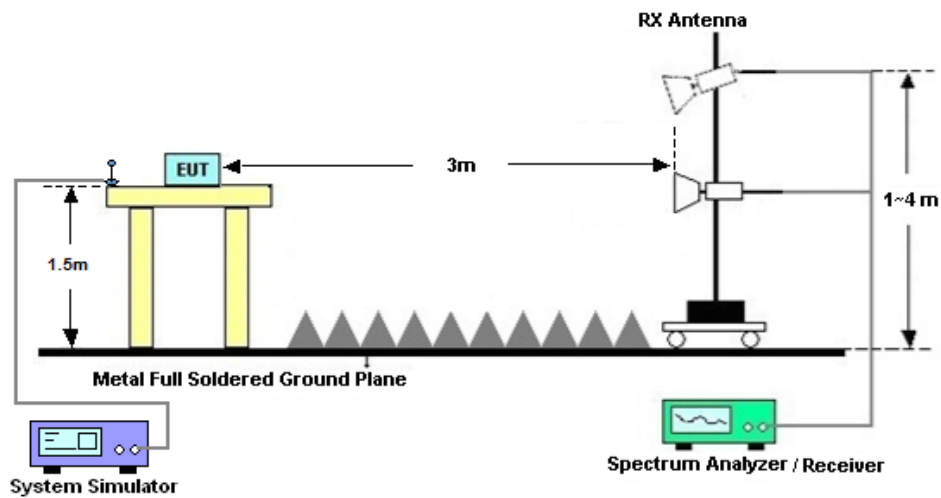
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

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

For LTE Band 13

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

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

4.4.2 Test Procedures

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Mar. 19, 2025~ Apr. 10, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 19, 2025~ Apr. 10, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Mar. 19, 2025~ Apr. 10, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Mar. 29, 2025~ Apr. 09, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Mar. 29, 2025~ Apr. 09, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Mar. 29, 2025~ Apr. 09, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Mar. 29, 2025~ Apr. 09, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 08, 2025		Apr. 07, 2026	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Mar. 29, 2025~ Apr. 09, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Mar. 29, 2025~ Apr. 09, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Mar. 29, 2025~ Apr. 09, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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 Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 7_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	22.63	22.73	22.58	0.1130	0.1156	0.1117
20	QPSK	1	49	22.59	22.65	22.36	0.1119	0.1135	0.1062
20	QPSK	1	99	22.57	22.63	22.55	0.1114	0.1130	0.1109
20	QPSK	50	0	21.55	21.73	21.66	0.0881	0.0918	0.0904
20	QPSK	50	24	21.60	21.70	21.68	0.0891	0.0912	0.0908
20	QPSK	50	50	21.66	21.66	21.52	0.0904	0.0904	0.0875
20	QPSK	100	0	21.61	21.64	21.56	0.0893	0.0899	0.0883
20	16QAM	1	0	21.65	21.83	21.65	0.0902	0.0940	0.0902
20	16QAM	1	49	21.52	21.74	21.42	0.0875	0.0920	0.0855
20	16QAM	1	99	21.58	21.55	21.45	0.0887	0.0881	0.0861
20	16QAM	50	0	20.56	20.72	20.49	0.0701	0.0728	0.0690
20	16QAM	50	24	20.52	20.76	20.35	0.0695	0.0735	0.0668
20	16QAM	50	50	20.46	20.54	20.51	0.0685	0.0698	0.0693
20	16QAM	100	0	20.60	20.72	20.52	0.0708	0.0728	0.0695
20	64QAM	1	0	20.68	20.80	20.57	0.0721	0.0741	0.0703
20	64QAM	1	49	20.69	20.63	20.46	0.0723	0.0713	0.0685
20	64QAM	1	99	20.50	20.65	20.52	0.0692	0.0716	0.0695
20	64QAM	50	0	19.67	19.78	19.63	0.0571	0.0586	0.0566
20	64QAM	50	24	19.74	19.78	19.67	0.0581	0.0586	0.0571
20	64QAM	50	50	19.60	19.64	19.36	0.0562	0.0568	0.0532
20	64QAM	100	0	19.61	19.75	19.53	0.0564	0.0582	0.0553
20	256QAM	1	0	17.72	17.65	17.51	0.0365	0.0359	0.0348
20	256QAM	1	49	17.49	17.57	17.34	0.0346	0.0352	0.0334
20	256QAM	1	99	17.46	17.59	17.47	0.0344	0.0354	0.0344
20	256QAM	50	0	17.59	17.62	17.51	0.0354	0.0356	0.0348
20	256QAM	50	24	17.51	17.75	17.54	0.0348	0.0367	0.0350
20	256QAM	50	50	17.61	17.71	17.33	0.0356	0.0364	0.0333
20	256QAM	100	0	17.47	17.56	17.54	0.0344	0.0352	0.0350
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.56	22.66	22.49	0.1112	0.1138	0.1094
15	QPSK	1	37	22.39	22.57	22.25	0.1069	0.1114	0.1035



15	QPSK	1	74	22.52	22.49	22.44	0.1102	0.1094	0.1081
15	QPSK	36	0	21.53	21.53	21.55	0.0877	0.0877	0.0881
15	QPSK	36	20	21.48	21.63	21.69	0.0867	0.0897	0.0910
15	QPSK	36	39	21.50	21.64	21.43	0.0871	0.0899	0.0857
15	QPSK	75	0	21.61	21.65	21.38	0.0893	0.0902	0.0847
15	16QAM	1	0	21.64	21.69	21.67	0.0899	0.0910	0.0906
15	16QAM	1	37	21.49	21.63	21.23	0.0869	0.0897	0.0818
15	16QAM	1	74	21.56	21.37	21.42	0.0883	0.0845	0.0855
15	16QAM	36	0	20.50	20.55	20.32	0.0692	0.0700	0.0664
15	16QAM	36	20	20.51	20.61	20.15	0.0693	0.0710	0.0638
15	16QAM	36	39	20.40	20.51	20.30	0.0676	0.0693	0.0661
15	16QAM	75	0	20.52	20.57	20.50	0.0695	0.0703	0.0692
15	64QAM	1	0	20.60	20.60	20.51	0.0708	0.0708	0.0693
15	64QAM	1	37	20.51	20.58	20.32	0.0693	0.0705	0.0664
15	64QAM	1	74	20.51	20.51	20.48	0.0693	0.0693	0.0689
15	64QAM	36	0	19.64	19.70	19.62	0.0568	0.0575	0.0565
15	64QAM	36	20	19.71	19.78	19.58	0.0577	0.0586	0.0560
15	64QAM	36	39	19.45	19.65	19.35	0.0543	0.0569	0.0531
15	64QAM	75	0	19.48	19.73	19.46	0.0547	0.0579	0.0545
15	256QAM	1	0	17.64	17.56	17.48	0.0358	0.0352	0.0345
15	256QAM	1	37	17.39	17.54	17.23	0.0338	0.0350	0.0326
15	256QAM	1	74	17.29	17.61	17.30	0.0330	0.0356	0.0331
15	256QAM	36	0	17.54	17.42	17.46	0.0350	0.0340	0.0344
15	256QAM	36	20	17.50	17.61	17.35	0.0347	0.0356	0.0335
15	256QAM	36	39	17.53	17.62	17.20	0.0349	0.0356	0.0324
15	256QAM	75	0	17.47	17.45	17.45	0.0344	0.0343	0.0343
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.46	22.53	22.40	0.1086	0.1104	0.1072
10	QPSK	1	25	22.38	22.65	22.22	0.1067	0.1135	0.1028
10	QPSK	1	49	22.40	22.55	22.51	0.1072	0.1109	0.1099
10	QPSK	25	0	21.55	21.57	21.65	0.0881	0.0885	0.0902
10	QPSK	25	12	21.59	21.64	21.65	0.0889	0.0899	0.0902
10	QPSK	25	25	21.46	21.56	21.33	0.0863	0.0883	0.0838
10	QPSK	50	0	21.39	21.58	21.43	0.0849	0.0887	0.0857
10	16QAM	1	0	21.58	21.62	21.66	0.0887	0.0895	0.0904
10	16QAM	1	25	21.49	21.69	21.42	0.0869	0.0910	0.0855
10	16QAM	1	49	21.51	21.33	21.40	0.0873	0.0838	0.0851
10	16QAM	25	0	20.35	20.59	20.29	0.0668	0.0706	0.0659
10	16QAM	25	12	20.37	20.73	20.30	0.0671	0.0729	0.0661
10	16QAM	25	25	20.24	20.32	20.47	0.0652	0.0664	0.0687
10	16QAM	50	0	20.59	20.60	20.43	0.0706	0.0708	0.0681
10	64QAM	1	0	20.51	20.70	20.52	0.0693	0.0724	0.0695
10	64QAM	1	25	20.71	20.52	20.24	0.0726	0.0695	0.0652
10	64QAM	1	49	20.37	20.56	20.33	0.0671	0.0701	0.0665
10	64QAM	25	0	19.56	19.63	19.54	0.0557	0.0566	0.0555



10	64QAM	25	12	19.52	19.58	19.49	0.0552	0.0560	0.0548
10	64QAM	25	25	19.48	19.59	19.16	0.0547	0.0561	0.0508
10	64QAM	50	0	19.56	19.64	19.46	0.0557	0.0568	0.0545
10	256QAM	1	0	17.56	17.50	17.47	0.0352	0.0347	0.0344
10	256QAM	1	25	17.40	17.47	17.18	0.0339	0.0344	0.0322
10	256QAM	1	49	17.44	17.40	17.30	0.0342	0.0339	0.0331
10	256QAM	25	0	17.40	17.61	17.37	0.0339	0.0356	0.0337
10	256QAM	25	12	17.37	17.60	17.50	0.0337	0.0355	0.0347
10	256QAM	25	25	17.49	17.57	17.32	0.0346	0.0352	0.0333
10	256QAM	50	0	17.33	17.51	17.45	0.0333	0.0348	0.0343
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.47	22.72	22.59	0.1089	0.1153	0.1119
5	QPSK	1	12	22.52	22.52	22.30	0.1102	0.1102	0.1047
5	QPSK	1	24	22.42	22.55	22.43	0.1076	0.1109	0.1079
5	QPSK	12	0	21.35	21.57	21.58	0.0841	0.0885	0.0887
5	QPSK	12	7	21.43	21.56	21.47	0.0857	0.0883	0.0865
5	QPSK	12	13	21.67	21.65	21.53	0.0906	0.0902	0.0877
5	QPSK	25	0	21.48	21.63	21.38	0.0867	0.0897	0.0847
5	16QAM	1	0	21.60	21.67	21.45	0.0891	0.0906	0.0861
5	16QAM	1	12	21.52	21.57	21.38	0.0875	0.0885	0.0847
5	16QAM	1	24	21.38	21.34	21.37	0.0847	0.0839	0.0845
5	16QAM	12	0	20.41	20.65	20.30	0.0678	0.0716	0.0661
5	16QAM	12	7	20.54	20.65	20.35	0.0698	0.0716	0.0668
5	16QAM	12	13	20.42	20.34	20.40	0.0679	0.0667	0.0676
5	16QAM	25	0	20.47	20.52	20.38	0.0687	0.0695	0.0673
5	64QAM	1	0	20.63	20.60	20.54	0.0713	0.0708	0.0698
5	64QAM	1	12	20.68	20.51	20.31	0.0721	0.0693	0.0662
5	64QAM	1	24	20.38	20.66	20.51	0.0673	0.0718	0.0693
5	64QAM	12	0	19.45	19.61	19.55	0.0543	0.0564	0.0556
5	64QAM	12	7	19.74	19.57	19.48	0.0581	0.0558	0.0547
5	64QAM	12	13	19.42	19.65	19.43	0.0540	0.0569	0.0541
5	64QAM	25	0	19.61	19.75	19.52	0.0564	0.0582	0.0552
5	256QAM	1	0	17.50	17.47	17.30	0.0347	0.0344	0.0331
5	256QAM	1	12	17.51	17.41	17.29	0.0348	0.0340	0.0330
5	256QAM	1	24	17.24	17.45	17.29	0.0327	0.0343	0.0330
5	256QAM	12	0	17.50	17.47	17.51	0.0347	0.0344	0.0348
5	256QAM	12	7	17.48	17.61	17.36	0.0345	0.0356	0.0336
5	256QAM	12	13	17.55	17.51	17.29	0.0351	0.0348	0.0330
5	256QAM	25	0	17.41	17.42	17.50	0.0340	0.0340	0.0347



LTE Band 12_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	22.55	22.61	22.50	0.0347	0.0352	0.0343
10	QPSK	1	25	22.59	22.47	22.50	0.0350	0.0340	0.0343
10	QPSK	1	49	22.43	22.51	22.47	0.0337	0.0344	0.0340
10	QPSK	25	0	21.65	21.67	21.54	0.0282	0.0283	0.0275
10	QPSK	25	12	21.57	21.61	21.64	0.0277	0.0279	0.0281
10	QPSK	25	25	21.64	21.62	21.54	0.0281	0.0280	0.0275
10	QPSK	50	0	21.58	21.60	21.43	0.0277	0.0279	0.0268
10	16QAM	1	0	21.91	21.93	21.99	0.0299	0.0301	0.0305
10	16QAM	1	25	21.98	21.96	21.96	0.0304	0.0303	0.0303
10	16QAM	1	49	21.91	22.02	21.95	0.0299	0.0307	0.0302
10	16QAM	25	0	20.49	20.69	20.58	0.0216	0.0226	0.0220
10	16QAM	25	12	20.52	20.70	20.52	0.0217	0.0226	0.0217
10	16QAM	25	25	20.59	20.54	20.78	0.0221	0.0218	0.0231
10	16QAM	50	0	20.67	20.54	20.61	0.0225	0.0218	0.0222
10	64QAM	1	0	20.45	20.62	20.54	0.0214	0.0222	0.0218
10	64QAM	1	25	20.56	20.70	20.45	0.0219	0.0226	0.0214
10	64QAM	1	49	20.50	20.52	20.75	0.0216	0.0217	0.0229
10	64QAM	25	0	19.45	19.58	19.60	0.0170	0.0175	0.0176
10	64QAM	25	12	19.44	19.65	19.71	0.0169	0.0178	0.0180
10	64QAM	25	25	19.64	19.46	19.76	0.0177	0.0170	0.0182
10	64QAM	50	0	19.61	19.51	19.77	0.0176	0.0172	0.0183
10	256QAM	1	0	17.54	17.61	17.74	0.0109	0.0111	0.0115
10	256QAM	1	25	17.49	17.70	17.55	0.0108	0.0114	0.0110
10	256QAM	1	49	17.45	17.71	17.70	0.0107	0.0114	0.0114
10	256QAM	25	0	17.49	17.65	17.60	0.0108	0.0112	0.0111
10	256QAM	25	12	17.62	17.60	17.70	0.0111	0.0111	0.0114
10	256QAM	25	25	17.69	17.61	17.66	0.0113	0.0111	0.0112
10	256QAM	50	0	17.65	17.60	17.82	0.0112	0.0111	0.0117
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	22.44	22.56	22.47	0.0338	0.0348	0.0340
5	QPSK	1	12	22.43	22.33	22.45	0.0337	0.0330	0.0339
5	QPSK	1	24	22.33	22.44	22.38	0.0330	0.0338	0.0333
5	QPSK	12	0	21.48	21.56	21.51	0.0271	0.0276	0.0273
5	QPSK	12	7	21.48	21.51	21.59	0.0271	0.0273	0.0278
5	QPSK	12	13	21.55	21.55	21.48	0.0275	0.0275	0.0271
5	QPSK	25	0	21.48	21.55	21.41	0.0271	0.0275	0.0267
5	16QAM	1	0	21.77	21.82	21.93	0.0290	0.0293	0.0301
5	16QAM	1	12	21.81	21.89	21.84	0.0292	0.0298	0.0294
5	16QAM	1	24	21.85	21.99	21.79	0.0295	0.0305	0.0291



5	16QAM	12	0	20.34	20.53	20.48	0.0208	0.0218	0.0215
5	16QAM	12	7	20.43	20.58	20.38	0.0213	0.0220	0.0210
5	16QAM	12	13	20.53	20.48	20.75	0.0218	0.0215	0.0229
5	16QAM	25	0	20.51	20.36	20.48	0.0217	0.0209	0.0215
5	64QAM	1	0	20.34	20.58	20.42	0.0208	0.0220	0.0212
5	64QAM	1	12	20.39	20.56	20.29	0.0211	0.0219	0.0206
5	64QAM	1	24	20.34	20.40	20.68	0.0208	0.0211	0.0225
5	64QAM	12	0	19.30	19.50	19.50	0.0164	0.0172	0.0172
5	64QAM	12	7	19.28	19.57	19.62	0.0163	0.0175	0.0177
5	64QAM	12	13	19.48	19.30	19.59	0.0171	0.0164	0.0175
5	64QAM	25	0	19.55	19.36	19.62	0.0174	0.0166	0.0177
5	256QAM	1	0	17.42	17.55	17.67	0.0106	0.0110	0.0113
5	256QAM	1	12	17.42	17.67	17.38	0.0106	0.0113	0.0105
5	256QAM	1	24	17.36	17.58	17.58	0.0105	0.0110	0.0110
5	256QAM	12	0	17.37	17.62	17.47	0.0105	0.0111	0.0108
5	256QAM	12	7	17.59	17.54	17.55	0.0111	0.0109	0.0110
5	256QAM	12	13	17.55	17.53	17.49	0.0110	0.0109	0.0108
5	256QAM	25	0	17.52	17.52	17.69	0.0109	0.0109	0.0113
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	22.46	22.48	22.45	0.0340	0.0341	0.0339
3	QPSK	1	8	22.56	22.39	22.36	0.0348	0.0334	0.0332
3	QPSK	1	14	22.28	22.42	22.40	0.0326	0.0337	0.0335
3	QPSK	8	0	21.51	21.52	21.42	0.0273	0.0274	0.0267
3	QPSK	8	4	21.41	21.49	21.52	0.0267	0.0272	0.0274
3	QPSK	8	7	21.50	21.45	21.46	0.0272	0.0269	0.0270
3	QPSK	15	0	21.42	21.50	21.29	0.0267	0.0272	0.0259
3	16QAM	1	0	21.87	21.76	21.93	0.0296	0.0289	0.0301
3	16QAM	1	8	21.90	21.78	21.93	0.0299	0.0290	0.0301
3	16QAM	1	14	21.89	21.86	21.84	0.0298	0.0296	0.0294
3	16QAM	8	0	20.35	20.62	20.42	0.0209	0.0222	0.0212
3	16QAM	8	4	20.45	20.56	20.37	0.0214	0.0219	0.0210
3	16QAM	8	7	20.51	20.39	20.75	0.0217	0.0211	0.0229
3	16QAM	15	0	20.63	20.51	20.51	0.0223	0.0217	0.0217
3	64QAM	1	0	20.28	20.52	20.38	0.0206	0.0217	0.0210
3	64QAM	1	8	20.51	20.58	20.36	0.0217	0.0220	0.0209
3	64QAM	1	14	20.41	20.49	20.70	0.0212	0.0216	0.0226
3	64QAM	8	0	19.29	19.41	19.47	0.0164	0.0168	0.0171
3	64QAM	8	4	19.30	19.51	19.54	0.0164	0.0172	0.0173
3	64QAM	8	7	19.58	19.42	19.62	0.0175	0.0169	0.0177
3	64QAM	15	0	19.50	19.45	19.63	0.0172	0.0170	0.0177
3	256QAM	1	0	17.46	17.59	17.63	0.0107	0.0111	0.0112
3	256QAM	1	8	17.46	17.55	17.40	0.0107	0.0110	0.0106
3	256QAM	1	14	17.43	17.56	17.57	0.0107	0.0110	0.0110
3	256QAM	8	0	17.40	17.62	17.44	0.0106	0.0111	0.0107
3	256QAM	8	4	17.59	17.52	17.66	0.0111	0.0109	0.0112
3	256QAM	8	7	17.63	17.52	17.56	0.0112	0.0109	0.0110



3	256QAM	15	0	17.62	17.45	17.73	0.0111	0.0107	0.0114
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	22.48	22.47	22.37	0.0341	0.0340	0.0333
1.4	QPSK	1	3	22.43	22.41	22.48	0.0337	0.0336	0.0341
1.4	QPSK	1	5	22.31	22.38	22.38	0.0328	0.0333	0.0333
1.4	QPSK	3	0	22.30	22.35	22.24	0.0327	0.0331	0.0323
1.4	QPSK	3	1	22.36	22.33	22.32	0.0332	0.0330	0.0329
1.4	QPSK	3	3	22.17	22.33	22.28	0.0318	0.0330	0.0326
1.4	QPSK	6	0	21.56	21.52	21.30	0.0276	0.0274	0.0260
1.4	16QAM	1	0	21.75	21.86	21.96	0.0288	0.0296	0.0303
1.4	16QAM	1	3	21.86	21.82	21.81	0.0296	0.0293	0.0292
1.4	16QAM	1	5	21.78	21.99	21.82	0.0290	0.0305	0.0293
1.4	16QAM	3	0	21.61	21.83	21.90	0.0279	0.0294	0.0299
1.4	16QAM	3	1	21.79	21.73	21.65	0.0291	0.0287	0.0282
1.4	16QAM	3	3	21.61	21.84	21.76	0.0279	0.0294	0.0289
1.4	16QAM	6	0	20.53	20.47	20.58	0.0218	0.0215	0.0220
1.4	64QAM	1	0	20.39	20.56	20.38	0.0211	0.0219	0.0210
1.4	64QAM	1	3	20.42	20.53	20.28	0.0212	0.0218	0.0206
1.4	64QAM	1	5	20.37	20.38	20.72	0.0210	0.0210	0.0228
1.4	64QAM	3	0	20.34	20.40	20.33	0.0208	0.0211	0.0208
1.4	64QAM	3	1	20.34	20.44	20.16	0.0208	0.0213	0.0200
1.4	64QAM	3	3	20.21	20.30	20.60	0.0202	0.0207	0.0221
1.4	64QAM	6	0	19.58	19.39	19.71	0.0175	0.0167	0.0180
1.4	256QAM	1	0	17.51	17.57	17.67	0.0109	0.0110	0.0113
1.4	256QAM	1	3	17.32	17.59	17.52	0.0104	0.0111	0.0109
1.4	256QAM	1	5	17.29	17.68	17.64	0.0103	0.0113	0.0112
1.4	256QAM	3	0	17.31	17.48	17.46	0.0104	0.0108	0.0107
1.4	256QAM	3	1	17.52	17.43	17.62	0.0109	0.0107	0.0111
1.4	256QAM	3	3	17.64	17.56	17.50	0.0112	0.0110	0.0108
1.4	256QAM	6	0	17.51	17.55	17.72	0.0109	0.0110	0.0114



LTE Band 13_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0	22.69	22.86	22.66	0.0312	0.0324	0.0310
10	QPSK	1	25	22.81	22.73	22.79	0.0321	0.0315	0.0319
10	QPSK	1	49	22.60	22.75	22.75	0.0305	0.0316	0.0316
10	QPSK	25	0	21.89	21.91	21.67	0.0259	0.0261	0.0247
10	QPSK	25	12	21.73	21.78	21.84	0.0250	0.0253	0.0256
10	QPSK	25	25	21.77	21.77	21.63	0.0252	0.0252	0.0244
10	QPSK	50	0	21.78	21.83	21.72	0.0253	0.0256	0.0249
10	16QAM	1	0	22.05	22.04	22.14	0.0269	0.0269	0.0275
10	16QAM	1	25	22.10	22.20	22.12	0.0272	0.0279	0.0274
10	16QAM	1	49	21.97	22.06	22.22	0.0264	0.0270	0.0280
10	16QAM	25	0	20.64	20.88	20.88	0.0195	0.0206	0.0206
10	16QAM	25	12	20.67	20.89	20.74	0.0196	0.0206	0.0199
10	16QAM	25	25	20.70	20.72	20.88	0.0197	0.0198	0.0206
10	16QAM	50	0	20.87	20.76	20.88	0.0205	0.0200	0.0206
10	64QAM	1	0	20.68	20.72	20.84	0.0196	0.0198	0.0204
10	64QAM	1	25	20.77	20.88	20.65	0.0200	0.0206	0.0195
10	64QAM	1	49	20.66	20.73	20.88	0.0195	0.0199	0.0206
10	64QAM	25	0	19.72	19.80	19.71	0.0157	0.0160	0.0157
10	64QAM	25	12	19.71	19.90	19.84	0.0157	0.0164	0.0162
10	64QAM	25	25	19.83	19.67	19.93	0.0161	0.0156	0.0165
10	64QAM	50	0	19.81	19.80	19.80	0.0161	0.0160	0.0160
10	256QAM	1	0	17.65	17.79	17.94	0.0098	0.0101	0.0104
10	256QAM	1	25	17.80	17.82	17.71	0.0101	0.0102	0.0099
10	256QAM	1	49	17.62	17.93	17.81	0.0097	0.0104	0.0101
10	256QAM	25	0	17.74	17.86	17.75	0.0100	0.0103	0.0100
10	256QAM	25	12	17.79	17.76	17.82	0.0101	0.0100	0.0102
10	256QAM	25	25	17.86	17.71	17.86	0.0103	0.0099	0.0103
10	256QAM	50	0	17.83	17.63	17.96	0.0102	0.0097	0.0105
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.65	22.70	22.55	0.0309	0.0313	0.0302
5	QPSK	1	12	22.70	22.64	22.70	0.0313	0.0308	0.0313
5	QPSK	1	24	22.46	22.58	22.69	0.0296	0.0304	0.0312
5	QPSK	12	0	21.76	21.83	21.62	0.0252	0.0256	0.0244
5	QPSK	12	7	21.66	21.60	21.74	0.0246	0.0243	0.0251
5	QPSK	12	13	21.69	21.72	21.53	0.0248	0.0249	0.0239
5	QPSK	25	0	21.75	21.79	21.56	0.0251	0.0254	0.0240
5	16QAM	1	0	22.00	21.99	22.07	0.0266	0.0265	0.0270
5	16QAM	1	12	22.04	22.08	22.03	0.0269	0.0271	0.0268
5	16QAM	1	24	21.94	21.96	22.09	0.0262	0.0264	0.0272



5	16QAM	12	0	20.52	20.72	20.82	0.0189	0.0198	0.0203
5	16QAM	12	7	20.61	20.87	20.63	0.0193	0.0205	0.0194
5	16QAM	12	13	20.63	20.57	20.78	0.0194	0.0191	0.0201
5	16QAM	25	0	20.84	20.61	20.81	0.0204	0.0193	0.0202
5	64QAM	1	0	20.59	20.62	20.72	0.0192	0.0194	0.0198
5	64QAM	1	12	20.66	20.83	20.59	0.0195	0.0203	0.0192
5	64QAM	1	24	20.48	20.62	20.77	0.0187	0.0194	0.0200
5	64QAM	12	0	19.58	19.67	19.53	0.0152	0.0156	0.0151
5	64QAM	12	7	19.68	19.85	19.70	0.0156	0.0162	0.0157
5	64QAM	12	13	19.72	19.53	19.81	0.0157	0.0151	0.0161
5	64QAM	25	0	19.72	19.71	19.75	0.0157	0.0157	0.0158
5	256QAM	1	0	17.49	17.66	17.82	0.0094	0.0098	0.0102
5	256QAM	1	12	17.77	17.71	17.64	0.0100	0.0099	0.0097
5	256QAM	1	24	17.58	17.77	17.66	0.0096	0.0100	0.0098
5	256QAM	12	0	17.65	17.75	17.68	0.0098	0.0100	0.0098
5	256QAM	12	7	17.68	17.61	17.79	0.0098	0.0097	0.0101
5	256QAM	12	13	17.76	17.66	17.74	0.0100	0.0098	0.0100
5	256QAM	25	0	17.80	17.49	17.88	0.0101	0.0094	0.0103

LTE Band 17_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711	L	M	H
10	QPSK	1	0	22.49	22.53	22.47	0.0342	0.0345	0.0340
10	QPSK	1	25	22.37	22.49	22.37	0.0333	0.0342	0.0333
10	QPSK	1	49	22.51	22.41	22.48	0.0344	0.0336	0.0341
10	QPSK	25	0	21.53	21.60	21.53	0.0274	0.0279	0.0274
10	QPSK	25	12	21.51	21.51	21.44	0.0273	0.0273	0.0269
10	QPSK	25	25	21.56	21.42	21.42	0.0276	0.0267	0.0267
10	QPSK	50	0	21.49	21.56	21.39	0.0272	0.0276	0.0265
10	16QAM	1	0	21.38	21.57	21.40	0.0265	0.0277	0.0266
10	16QAM	1	25	21.65	21.59	21.58	0.0282	0.0278	0.0277
10	16QAM	1	49	21.49	21.57	21.52	0.0272	0.0277	0.0274
10	16QAM	25	0	20.55	20.67	20.55	0.0219	0.0225	0.0219
10	16QAM	25	12	20.55	20.66	20.37	0.0219	0.0224	0.0210
10	16QAM	25	25	20.57	20.72	20.37	0.0220	0.0228	0.0210
10	16QAM	50	0	20.44	20.48	20.42	0.0213	0.0215	0.0212
10	64QAM	1	0	20.51	20.53	20.45	0.0217	0.0218	0.0214
10	64QAM	1	25	20.44	20.42	20.55	0.0213	0.0212	0.0219
10	64QAM	1	49	20.52	20.46	20.33	0.0217	0.0214	0.0208
10	64QAM	25	0	19.42	19.57	19.46	0.0169	0.0175	0.0170
10	64QAM	25	12	19.47	19.48	19.60	0.0171	0.0171	0.0176
10	64QAM	25	25	19.50	19.44	19.45	0.0172	0.0169	0.0170
10	64QAM	50	0	19.56	19.43	19.42	0.0174	0.0169	0.0169



10	256QAM	1	0	17.51	17.49	17.34	0.0109	0.0108	0.0104
10	256QAM	1	25	17.49	17.66	17.56	0.0108	0.0112	0.0110
10	256QAM	1	49	17.41	17.46	17.35	0.0106	0.0107	0.0105
10	256QAM	25	0	17.43	17.39	17.56	0.0107	0.0106	0.0110
10	256QAM	25	12	17.54	17.46	17.40	0.0109	0.0107	0.0106
10	256QAM	25	25	17.54	17.49	17.57	0.0109	0.0108	0.0110
10	256QAM	50	0	17.62	17.52	17.44	0.0111	0.0109	0.0107
Channel				23755	23790	23825	ERP(W)		
Frequency (MHz)				706.5	710	713.5	L	M	H
5	QPSK	1	0	22.34	22.41	22.34	0.0330	0.0336	0.0330
5	QPSK	1	12	22.27	22.36	22.24	0.0325	0.0332	0.0323
5	QPSK	1	24	22.44	22.30	22.43	0.0338	0.0327	0.0337
5	QPSK	12	0	21.44	21.55	21.36	0.0269	0.0275	0.0264
5	QPSK	12	7	21.38	21.40	21.41	0.0265	0.0266	0.0267
5	QPSK	12	13	21.43	21.30	21.32	0.0268	0.0260	0.0261
5	QPSK	25	0	21.33	21.49	21.31	0.0262	0.0272	0.0261
5	16QAM	1	0	21.32	21.53	21.31	0.0261	0.0274	0.0261
5	16QAM	1	12	21.57	21.43	21.50	0.0277	0.0268	0.0272
5	16QAM	1	24	21.40	21.43	21.43	0.0266	0.0268	0.0268
5	16QAM	12	0	20.53	20.64	20.44	0.0218	0.0223	0.0213
5	16QAM	12	7	20.42	20.52	20.29	0.0212	0.0217	0.0206
5	16QAM	12	13	20.45	20.57	20.20	0.0214	0.0220	0.0202
5	16QAM	25	0	20.30	20.37	20.33	0.0207	0.0210	0.0208
5	64QAM	1	0	20.34	20.44	20.40	0.0208	0.0213	0.0211
5	64QAM	1	12	20.33	20.29	20.38	0.0208	0.0206	0.0210
5	64QAM	1	24	20.41	20.39	20.16	0.0212	0.0211	0.0200
5	64QAM	12	0	19.31	19.53	19.39	0.0164	0.0173	0.0167
5	64QAM	12	7	19.43	19.42	19.51	0.0169	0.0169	0.0172
5	64QAM	12	13	19.47	19.33	19.39	0.0171	0.0165	0.0167
5	64QAM	25	0	19.49	19.34	19.38	0.0171	0.0166	0.0167
5	256QAM	1	0	17.42	17.40	17.29	0.0106	0.0106	0.0103
5	256QAM	1	12	17.32	17.52	17.43	0.0104	0.0109	0.0107
5	256QAM	1	24	17.34	17.41	17.17	0.0104	0.0106	0.0100
5	256QAM	12	0	17.26	17.28	17.39	0.0103	0.0103	0.0106
5	256QAM	12	7	17.42	17.35	17.27	0.0106	0.0105	0.0103
5	256QAM	12	13	17.41	17.40	17.50	0.0106	0.0106	0.0108
5	256QAM	25	0	17.53	17.38	17.38	0.0109	0.0105	0.0105



LTE Band 38_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.80	22.96	22.91	0.1175	0.1219	0.1205
20	QPSK	1	49	22.71	22.75	22.80	0.1151	0.1161	0.1175
20	QPSK	1	99	22.68	22.85	22.87	0.1143	0.1189	0.1194
20	QPSK	50	0	21.80	22.08	21.94	0.0933	0.0995	0.0964
20	QPSK	50	24	21.76	22.05	21.80	0.0925	0.0989	0.0933
20	QPSK	50	50	21.83	21.90	21.83	0.0940	0.0955	0.0940
20	QPSK	100	0	21.75	21.86	21.78	0.0923	0.0946	0.0929
20	16QAM	1	0	21.73	21.94	21.88	0.0918	0.0964	0.0951
20	16QAM	1	49	21.78	21.63	21.89	0.0929	0.0897	0.0953
20	16QAM	1	99	21.75	21.75	21.86	0.0923	0.0923	0.0946
20	16QAM	50	0	20.85	20.86	20.96	0.0750	0.0752	0.0769
20	16QAM	50	24	20.74	20.67	20.83	0.0731	0.0719	0.0746
20	16QAM	50	50	20.67	20.76	20.97	0.0719	0.0735	0.0771
20	16QAM	100	0	20.73	20.90	20.84	0.0729	0.0759	0.0748
20	64QAM	1	0	20.85	21.08	20.82	0.0750	0.0791	0.0745
20	64QAM	1	49	20.66	20.71	20.85	0.0718	0.0726	0.0750
20	64QAM	1	99	20.66	20.88	20.81	0.0718	0.0755	0.0743
20	64QAM	50	0	19.80	20.02	19.98	0.0589	0.0619	0.0614
20	64QAM	50	24	19.84	20.02	19.81	0.0594	0.0619	0.0590
20	64QAM	50	50	19.68	19.75	19.82	0.0573	0.0582	0.0592
20	64QAM	100	0	19.57	19.80	19.86	0.0558	0.0589	0.0597
20	256QAM	1	0	17.70	17.89	18.02	0.0363	0.0379	0.0391
20	256QAM	1	49	17.66	17.83	17.71	0.0360	0.0374	0.0364
20	256QAM	1	99	17.62	17.75	17.77	0.0356	0.0367	0.0369
20	256QAM	50	0	17.88	17.96	17.79	0.0378	0.0385	0.0371
20	256QAM	50	24	17.88	17.88	17.90	0.0378	0.0378	0.0380
20	256QAM	50	50	17.73	17.71	17.73	0.0366	0.0364	0.0366
20	256QAM	100	0	17.78	17.80	17.87	0.0370	0.0372	0.0378
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.66	22.90	22.73	0.1138	0.1202	0.1156
15	QPSK	1	37	22.64	22.53	22.67	0.1132	0.1104	0.1140
15	QPSK	1	74	22.53	22.76	22.84	0.1104	0.1164	0.1186
15	QPSK	36	0	21.60	21.94	21.93	0.0891	0.0964	0.0962
15	QPSK	36	20	21.72	21.91	21.63	0.0916	0.0957	0.0897
15	QPSK	36	39	21.76	21.86	21.80	0.0925	0.0946	0.0933
15	QPSK	75	0	21.71	21.69	21.62	0.0914	0.0910	0.0895
15	16QAM	1	0	21.51	21.77	21.67	0.0873	0.0927	0.0906
15	16QAM	1	37	21.65	21.55	21.74	0.0902	0.0881	0.0920
15	16QAM	1	74	21.53	21.58	21.83	0.0877	0.0887	0.0940
15	16QAM	36	0	20.65	20.81	20.87	0.0716	0.0743	0.0753
15	16QAM	36	20	20.72	20.49	20.67	0.0728	0.0690	0.0719



15	16QAM	36	39	20.63	20.59	20.84	0.0713	0.0706	0.0748
15	16QAM	75	0	20.71	20.76	20.79	0.0726	0.0735	0.0740
15	64QAM	1	0	20.66	20.91	20.70	0.0718	0.0760	0.0724
15	64QAM	1	37	20.68	20.57	20.74	0.0721	0.0703	0.0731
15	64QAM	1	74	20.64	20.84	20.73	0.0714	0.0748	0.0729
15	64QAM	36	0	19.79	20.03	19.83	0.0587	0.0621	0.0593
15	64QAM	36	20	19.80	19.83	19.80	0.0589	0.0593	0.0589
15	64QAM	36	39	19.53	19.56	19.64	0.0553	0.0557	0.0568
15	64QAM	75	0	19.41	19.70	19.82	0.0538	0.0575	0.0592
15	256QAM	1	0	17.62	17.76	17.86	0.0356	0.0368	0.0377
15	256QAM	1	37	17.49	17.65	17.62	0.0346	0.0359	0.0356
15	256QAM	1	74	17.50	17.60	17.64	0.0347	0.0355	0.0358
15	256QAM	36	0	17.79	17.81	17.77	0.0371	0.0372	0.0369
15	256QAM	36	20	17.82	17.79	17.88	0.0373	0.0371	0.0378
15	256QAM	36	39	17.55	17.54	17.73	0.0351	0.0350	0.0366
15	256QAM	75	0	17.57	17.79	17.80	0.0352	0.0371	0.0372
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.82	22.93	22.88	0.1180	0.1211	0.1197
10	QPSK	1	25	22.61	22.64	22.64	0.1125	0.1132	0.1132
10	QPSK	1	49	22.48	22.71	22.84	0.1091	0.1151	0.1186
10	QPSK	25	0	21.64	21.90	21.85	0.0899	0.0955	0.0944
10	QPSK	25	12	21.73	22.00	21.80	0.0918	0.0977	0.0933
10	QPSK	25	25	21.71	21.91	21.82	0.0914	0.0957	0.0938
10	QPSK	50	0	21.75	21.69	21.58	0.0923	0.0910	0.0887
10	16QAM	1	0	21.57	21.75	21.83	0.0885	0.0923	0.0940
10	16QAM	1	25	21.73	21.57	21.74	0.0918	0.0885	0.0920
10	16QAM	1	49	21.73	21.54	21.81	0.0918	0.0879	0.0935
10	16QAM	25	0	20.84	20.66	20.81	0.0748	0.0718	0.0743
10	16QAM	25	12	20.69	20.67	20.80	0.0723	0.0719	0.0741
10	16QAM	25	25	20.47	20.67	20.92	0.0687	0.0719	0.0762
10	16QAM	50	0	20.75	20.68	20.72	0.0733	0.0721	0.0728
10	64QAM	1	0	20.71	20.96	20.62	0.0726	0.0769	0.0711
10	64QAM	1	25	20.47	20.52	20.83	0.0687	0.0695	0.0746
10	64QAM	1	49	20.67	20.84	20.64	0.0719	0.0748	0.0714
10	64QAM	25	0	19.58	19.84	19.82	0.0560	0.0594	0.0592
10	64QAM	25	12	19.78	19.99	19.70	0.0586	0.0615	0.0575
10	64QAM	25	25	19.64	19.53	19.83	0.0568	0.0553	0.0593
10	64QAM	50	0	19.56	19.81	19.64	0.0557	0.0590	0.0568
10	256QAM	1	0	17.51	17.74	17.86	0.0348	0.0366	0.0377
10	256QAM	1	25	17.44	17.62	17.50	0.0342	0.0356	0.0347
10	256QAM	1	49	17.53	17.57	17.72	0.0349	0.0352	0.0365
10	256QAM	25	0	17.81	17.79	17.69	0.0372	0.0371	0.0362
10	256QAM	25	12	17.80	17.89	17.70	0.0372	0.0379	0.0363
10	256QAM	25	25	17.55	17.50	17.55	0.0351	0.0347	0.0351
10	256QAM	50	0	17.62	17.65	17.83	0.0356	0.0359	0.0374
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H



5	QPSK	1	0	22.72	22.85	22.70	0.1153	0.1189	0.1148
5	QPSK	1	12	22.67	22.58	22.73	0.1140	0.1117	0.1156
5	QPSK	1	24	22.60	22.86	22.67	0.1122	0.1191	0.1140
5	QPSK	12	0	21.77	22.04	21.95	0.0927	0.0986	0.0966
5	QPSK	12	7	21.71	22.02	21.65	0.0914	0.0982	0.0902
5	QPSK	12	13	21.81	21.72	21.61	0.0935	0.0916	0.0893
5	QPSK	25	0	21.70	21.87	21.75	0.0912	0.0948	0.0923
5	16QAM	1	0	21.55	21.88	21.67	0.0881	0.0951	0.0906
5	16QAM	1	12	21.61	21.54	21.77	0.0893	0.0879	0.0927
5	16QAM	1	24	21.53	21.65	21.85	0.0877	0.0902	0.0944
5	16QAM	12	0	20.80	20.77	20.94	0.0741	0.0736	0.0766
5	16QAM	12	7	20.66	20.52	20.74	0.0718	0.0695	0.0731
5	16QAM	12	13	20.49	20.75	20.83	0.0690	0.0733	0.0746
5	16QAM	25	0	20.69	20.80	20.64	0.0723	0.0741	0.0714
5	64QAM	1	0	20.80	20.86	20.81	0.0741	0.0752	0.0743
5	64QAM	1	12	20.64	20.71	20.78	0.0714	0.0726	0.0738
5	64QAM	1	24	20.67	20.82	20.80	0.0719	0.0745	0.0741
5	64QAM	12	0	19.75	19.93	19.92	0.0582	0.0607	0.0605
5	64QAM	12	7	19.72	19.95	19.68	0.0578	0.0610	0.0573
5	64QAM	12	13	19.60	19.71	19.77	0.0562	0.0577	0.0585
5	64QAM	25	0	19.46	19.71	19.67	0.0545	0.0577	0.0571
5	256QAM	1	0	17.51	17.89	17.97	0.0348	0.0379	0.0386
5	256QAM	1	12	17.63	17.76	17.55	0.0357	0.0368	0.0351
5	256QAM	1	24	17.49	17.58	17.64	0.0346	0.0353	0.0358
5	256QAM	12	0	17.71	17.88	17.76	0.0364	0.0378	0.0368
5	256QAM	12	7	17.71	17.67	17.81	0.0364	0.0361	0.0372
5	256QAM	12	13	17.51	17.61	17.70	0.0348	0.0356	0.0363
5	256QAM	25	0	17.74	17.66	17.71	0.0366	0.0360	0.0364

LTE Band 41_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	22.87	22.99	22.65	0.1194	0.1227	0.1135
20	QPSK	1	49	22.87	22.79	22.59	0.1194	0.1172	0.1119
20	QPSK	1	99	22.73	22.70	22.53	0.1156	0.1148	0.1104
20	QPSK	50	0	21.84	21.98	21.71	0.0942	0.0973	0.0914
20	QPSK	50	24	21.82	21.87	21.66	0.0938	0.0948	0.0904
20	QPSK	50	50	21.76	21.77	21.61	0.0925	0.0927	0.0893
20	QPSK	100	0	21.73	21.82	21.52	0.0918	0.0938	0.0875
20	16QAM	1	0	21.90	21.77	21.54	0.0955	0.0927	0.0879
20	16QAM	1	49	21.88	21.71	21.54	0.0951	0.0914	0.0879
20	16QAM	1	99	21.80	21.70	21.45	0.0933	0.0912	0.0861
20	16QAM	50	0	20.95	20.81	20.58	0.0767	0.0743	0.0705
20	16QAM	50	24	20.83	20.81	20.65	0.0746	0.0743	0.0716



20	16QAM	50	50	20.80	20.73	20.66	0.0741	0.0729	0.0718
20	16QAM	100	0	20.64	20.77	20.58	0.0714	0.0736	0.0705
20	64QAM	1	0	20.74	20.70	20.60	0.0731	0.0724	0.0708
20	64QAM	1	49	20.70	20.79	20.52	0.0724	0.0740	0.0695
20	64QAM	1	99	20.78	20.71	20.44	0.0738	0.0726	0.0682
20	64QAM	50	0	19.77	19.94	19.66	0.0585	0.0608	0.0570
20	64QAM	50	24	19.85	19.95	19.74	0.0596	0.0610	0.0581
20	64QAM	50	50	19.89	19.79	19.45	0.0601	0.0587	0.0543
20	64QAM	100	0	19.80	19.76	19.56	0.0589	0.0583	0.0557
20	256QAM	1	0	17.88	17.75	17.59	0.0378	0.0367	0.0354
20	256QAM	1	49	17.86	17.85	17.51	0.0377	0.0376	0.0348
20	256QAM	1	99	17.63	17.81	17.50	0.0357	0.0372	0.0347
20	256QAM	50	0	17.82	17.88	17.67	0.0373	0.0378	0.0361
20	256QAM	50	24	17.96	17.75	17.56	0.0385	0.0367	0.0352
20	256QAM	50	50	17.77	17.68	17.61	0.0369	0.0361	0.0356
20	256QAM	100	0	17.69	17.76	17.54	0.0362	0.0368	0.0350
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	22.80	22.87	22.69	0.1175	0.1194	0.1146
15	QPSK	1	37	22.82	22.79	22.48	0.1180	0.1172	0.1091
15	QPSK	1	74	22.67	22.71	22.49	0.1140	0.1151	0.1094
15	QPSK	36	0	21.71	21.91	21.68	0.0914	0.0957	0.0908
15	QPSK	36	20	21.83	21.81	21.67	0.0940	0.0935	0.0906
15	QPSK	36	39	21.79	21.72	21.56	0.0931	0.0916	0.0883
15	QPSK	75	0	21.65	21.79	21.51	0.0902	0.0931	0.0873
15	16QAM	1	0	21.91	21.75	21.48	0.0957	0.0923	0.0867
15	16QAM	1	37	21.87	21.71	21.48	0.0948	0.0914	0.0867
15	16QAM	1	74	21.72	21.60	21.41	0.0916	0.0891	0.0853
15	16QAM	36	0	20.95	20.82	20.55	0.0767	0.0745	0.0700
15	16QAM	36	20	20.71	20.72	20.66	0.0726	0.0728	0.0718
15	16QAM	36	39	20.66	20.63	20.58	0.0718	0.0713	0.0705
15	16QAM	75	0	20.60	20.75	20.58	0.0708	0.0733	0.0705
15	64QAM	1	0	20.74	20.70	20.47	0.0731	0.0724	0.0687
15	64QAM	1	37	20.63	20.77	20.56	0.0713	0.0736	0.0701
15	64QAM	1	74	20.72	20.63	20.42	0.0728	0.0713	0.0679
15	64QAM	36	0	19.68	19.79	19.61	0.0573	0.0587	0.0564
15	64QAM	36	20	19.72	19.92	19.65	0.0578	0.0605	0.0569
15	64QAM	36	39	19.84	19.68	19.49	0.0594	0.0573	0.0548
15	64QAM	75	0	19.82	19.70	19.53	0.0592	0.0575	0.0553
15	256QAM	1	0	17.82	17.75	17.46	0.0373	0.0367	0.0344
15	256QAM	1	37	17.74	17.85	17.53	0.0366	0.0376	0.0349
15	256QAM	1	74	17.57	17.79	17.51	0.0352	0.0371	0.0348
15	256QAM	36	0	17.68	17.73	17.67	0.0361	0.0366	0.0361
15	256QAM	36	20	17.95	17.77	17.48	0.0385	0.0369	0.0345
15	256QAM	36	39	17.68	17.55	17.50	0.0361	0.0351	0.0347
15	256QAM	75	0	17.65	17.65	17.47	0.0359	0.0359	0.0344
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H



10	QPSK	1	0	22.89	22.76	22.54	0.1199	0.1164	0.1107
10	QPSK	1	25	22.85	22.65	22.54	0.1189	0.1135	0.1107
10	QPSK	1	49	22.63	22.71	22.46	0.1130	0.1151	0.1086
10	QPSK	25	0	21.71	21.92	21.57	0.0914	0.0959	0.0885
10	QPSK	25	12	21.87	21.83	21.69	0.0948	0.0940	0.0910
10	QPSK	25	25	21.69	21.76	21.49	0.0910	0.0925	0.0869
10	QPSK	50	0	21.67	21.71	21.52	0.0906	0.0914	0.0875
10	16QAM	1	0	21.83	21.76	21.40	0.0940	0.0925	0.0851
10	16QAM	1	25	21.83	21.70	21.47	0.0940	0.0912	0.0865
10	16QAM	1	49	21.79	21.65	21.39	0.0931	0.0902	0.0849
10	16QAM	25	0	20.80	20.78	20.51	0.0741	0.0738	0.0693
10	16QAM	25	12	20.69	20.82	20.64	0.0723	0.0745	0.0714
10	16QAM	25	25	20.77	20.64	20.58	0.0736	0.0714	0.0705
10	16QAM	50	0	20.64	20.73	20.45	0.0714	0.0729	0.0684
10	64QAM	1	0	20.75	20.70	20.57	0.0733	0.0724	0.0703
10	64QAM	1	25	20.58	20.65	20.45	0.0705	0.0716	0.0684
10	64QAM	1	49	20.76	20.66	20.34	0.0735	0.0718	0.0667
10	64QAM	25	0	19.80	19.83	19.69	0.0589	0.0593	0.0574
10	64QAM	25	12	19.71	19.87	19.71	0.0577	0.0598	0.0577
10	64QAM	25	25	19.83	19.74	19.49	0.0593	0.0581	0.0548
10	64QAM	50	0	19.74	19.77	19.52	0.0581	0.0585	0.0552
10	256QAM	1	0	17.79	17.78	17.57	0.0371	0.0370	0.0352
10	256QAM	1	25	17.78	17.84	17.54	0.0370	0.0375	0.0350
10	256QAM	1	49	17.64	17.68	17.55	0.0358	0.0361	0.0351
10	256QAM	25	0	17.71	17.82	17.63	0.0364	0.0373	0.0357
10	256QAM	25	12	17.95	17.71	17.59	0.0385	0.0364	0.0354
10	256QAM	25	25	17.74	17.68	17.55	0.0366	0.0361	0.0351
10	256QAM	50	0	17.69	17.78	17.57	0.0362	0.0370	0.0352
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	22.76	22.88	22.54	0.1164	0.1197	0.1107
5	QPSK	1	12	22.85	22.68	22.47	0.1189	0.1143	0.1089
5	QPSK	1	24	22.71	22.62	22.54	0.1151	0.1127	0.1107
5	QPSK	12	0	21.73	21.84	21.75	0.0918	0.0942	0.0923
5	QPSK	12	7	21.78	21.91	21.58	0.0929	0.0957	0.0887
5	QPSK	12	13	21.75	21.72	21.51	0.0923	0.0916	0.0873
5	QPSK	25	0	21.64	21.69	21.43	0.0899	0.0910	0.0857
5	16QAM	1	0	21.89	21.63	21.48	0.0953	0.0897	0.0867
5	16QAM	1	12	21.78	21.62	21.47	0.0929	0.0895	0.0865
5	16QAM	1	24	21.75	21.61	21.41	0.0923	0.0893	0.0853
5	16QAM	12	0	20.98	20.80	20.59	0.0773	0.0741	0.0706
5	16QAM	12	7	20.86	20.71	20.52	0.0752	0.0726	0.0695
5	16QAM	12	13	20.65	20.77	20.66	0.0716	0.0736	0.0718
5	16QAM	25	0	20.56	20.74	20.54	0.0701	0.0731	0.0698
5	64QAM	1	0	20.62	20.72	20.50	0.0711	0.0728	0.0692
5	64QAM	1	12	20.70	20.79	20.42	0.0724	0.0740	0.0679
5	64QAM	1	24	20.74	20.61	20.39	0.0731	0.0710	0.0675
5	64QAM	12	0	19.64	19.73	19.57	0.0568	0.0579	0.0558



5	64QAM	12	7	19.74	19.76	19.73	0.0581	0.0583	0.0579
5	64QAM	12	13	19.76	19.75	19.36	0.0583	0.0582	0.0532
5	64QAM	25	0	19.82	19.79	19.48	0.0592	0.0587	0.0547
5	256QAM	1	0	17.86	17.71	17.51	0.0377	0.0364	0.0348
5	256QAM	1	12	17.71	17.89	17.47	0.0364	0.0379	0.0344
5	256QAM	1	24	17.57	17.82	17.45	0.0352	0.0373	0.0343
5	256QAM	12	0	17.77	17.76	17.67	0.0369	0.0368	0.0361
5	256QAM	12	7	17.84	17.64	17.47	0.0375	0.0358	0.0344
5	256QAM	12	13	17.76	17.58	17.59	0.0368	0.0353	0.0354
5	256QAM	25	0	17.67	17.79	17.58	0.0361	0.0371	0.0353

LTE CA_7C_ANT1:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.76	0.1112
M	QPSK	1	Max	1	0	22.69	0.1094
H	QPSK	1	Max	1	0	22.77	0.1114
L	16QAM	1	Max	1	0	22.00	0.0933
M	16QAM	1	Max	1	0	22.05	0.0944
H	16QAM	1	Max	1	0	22.11	0.0957
L	64QAM	1	Max	1	0	20.82	0.0711
M	64QAM	1	Max	1	0	20.80	0.0708
H	64QAM	1	Max	1	0	20.85	0.0716
L	256QAM	1	Max	1	0	17.72	0.0348
M	256QAM	1	Max	1	0	17.66	0.0344
H	256QAM	1	Max	1	0	17.73	0.0349
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.58	0.1067
H	16QAM	1	Max	1	0	21.83	0.0897
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.51	0.1050
H	16QAM	1	Max	1	0	21.91	0.0914
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.55	0.1059
H	16QAM	1	Max	1	0	21.93	0.0918
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.63	0.1079
H	16QAM	1	Max	1	0	21.89	0.0910
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured	EIRP(W)



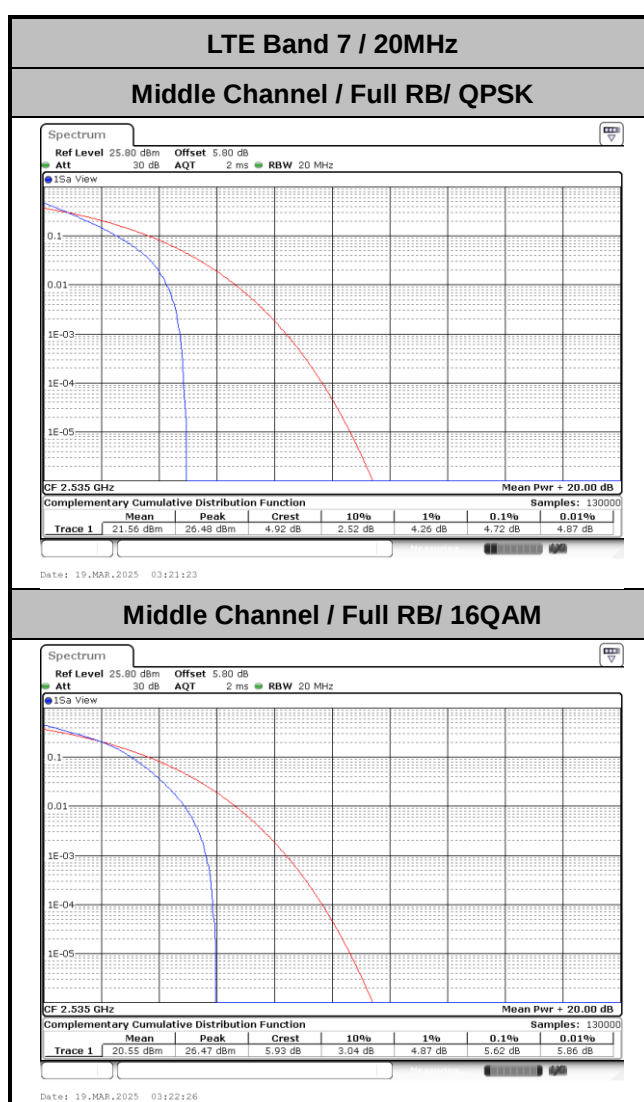
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.56	0.1062
H	16QAM	1	Max	1	0	21.86	0.0904
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.55	0.1059
H	16QAM	1	Max	1	0	21.91	0.0914

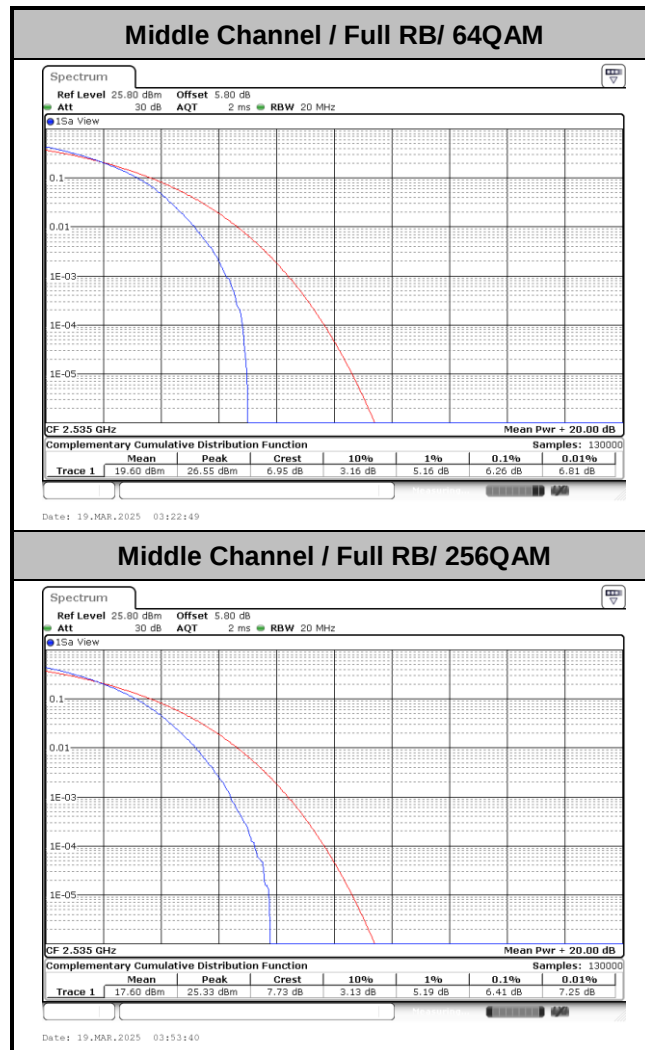


LTE Band 7

Peak-to-Average Ratio

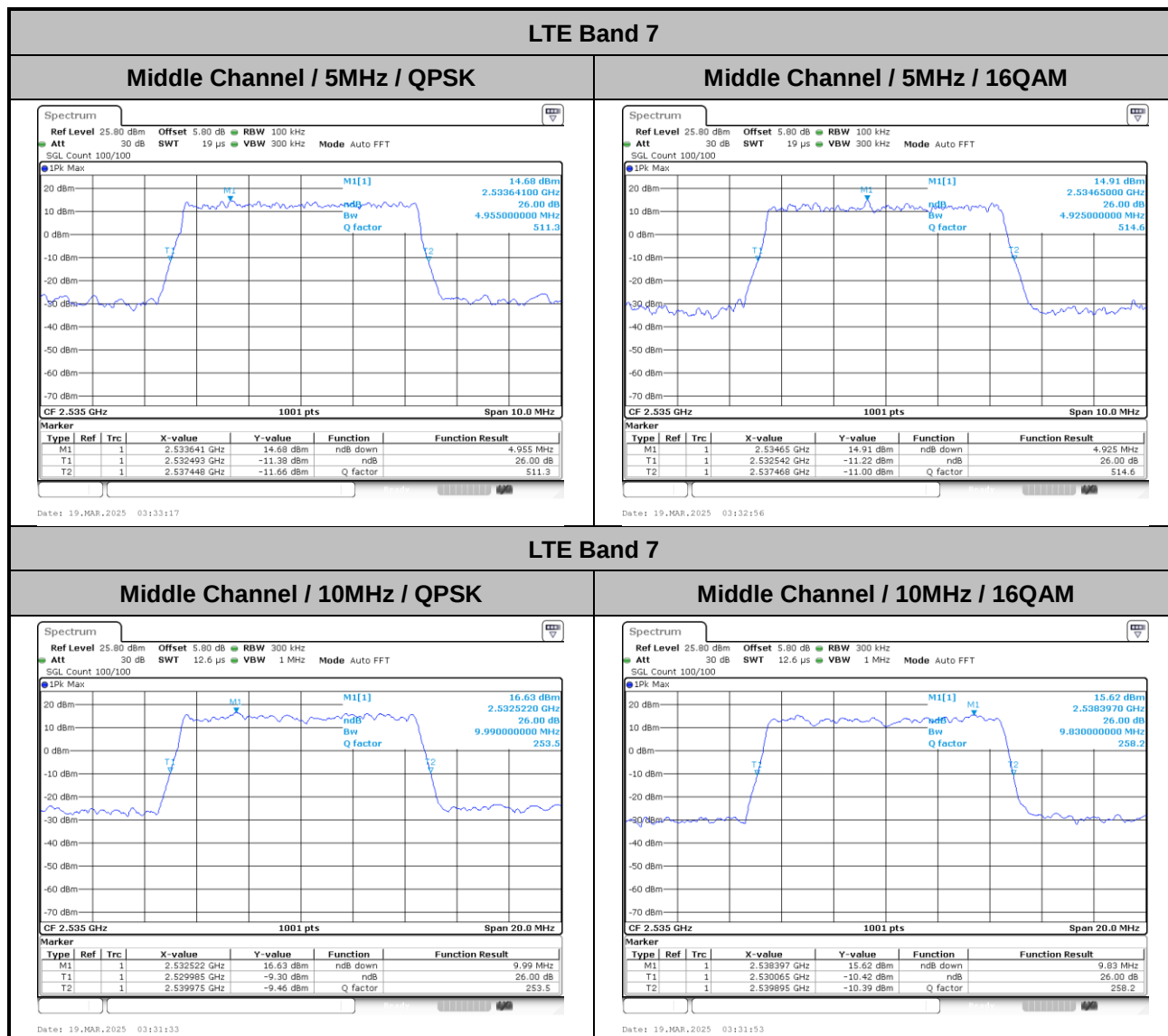
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.72	5.62	6.26	6.41	PASS





**26dB Bandwidth**

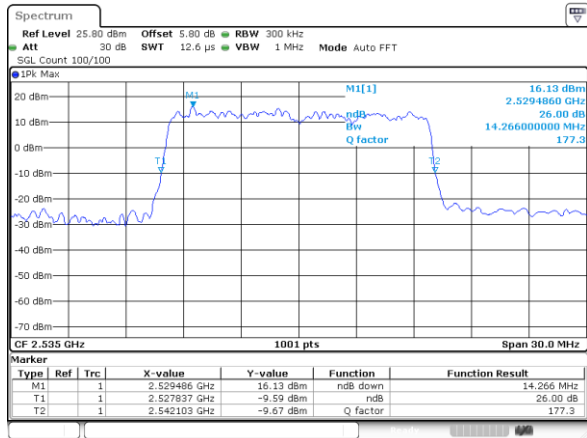
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.96	4.93	9.99	9.83	14.27	14.36	19.06	18.82





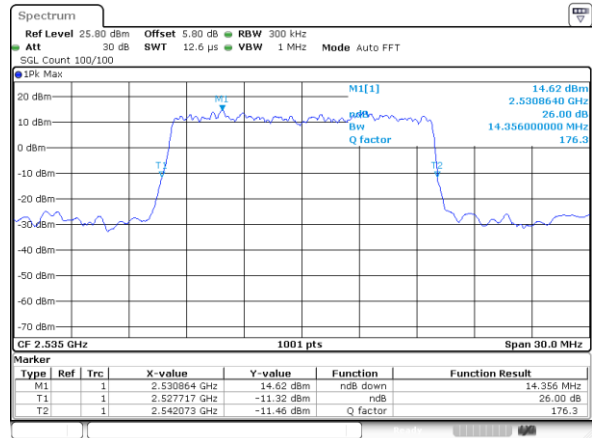
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 19.MAR.2025 03:30:29

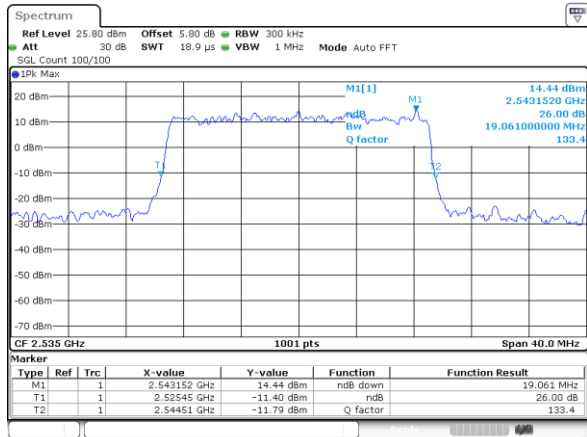
Middle Channel / 15MHz / 16QAM



Date: 19.MAR.2025 03:30:08

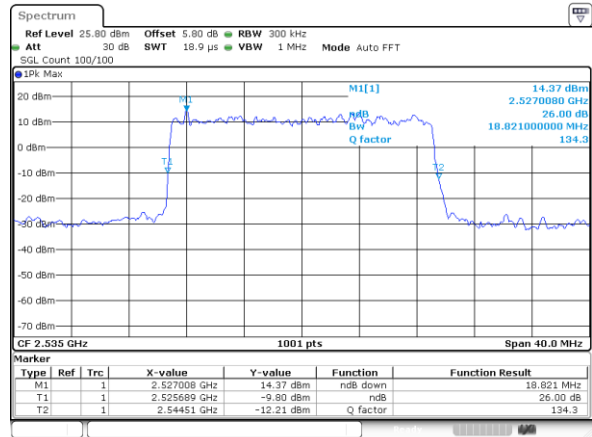
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 19.MAR.2025 03:21:01

Middle Channel / 20MHz / 16QAM

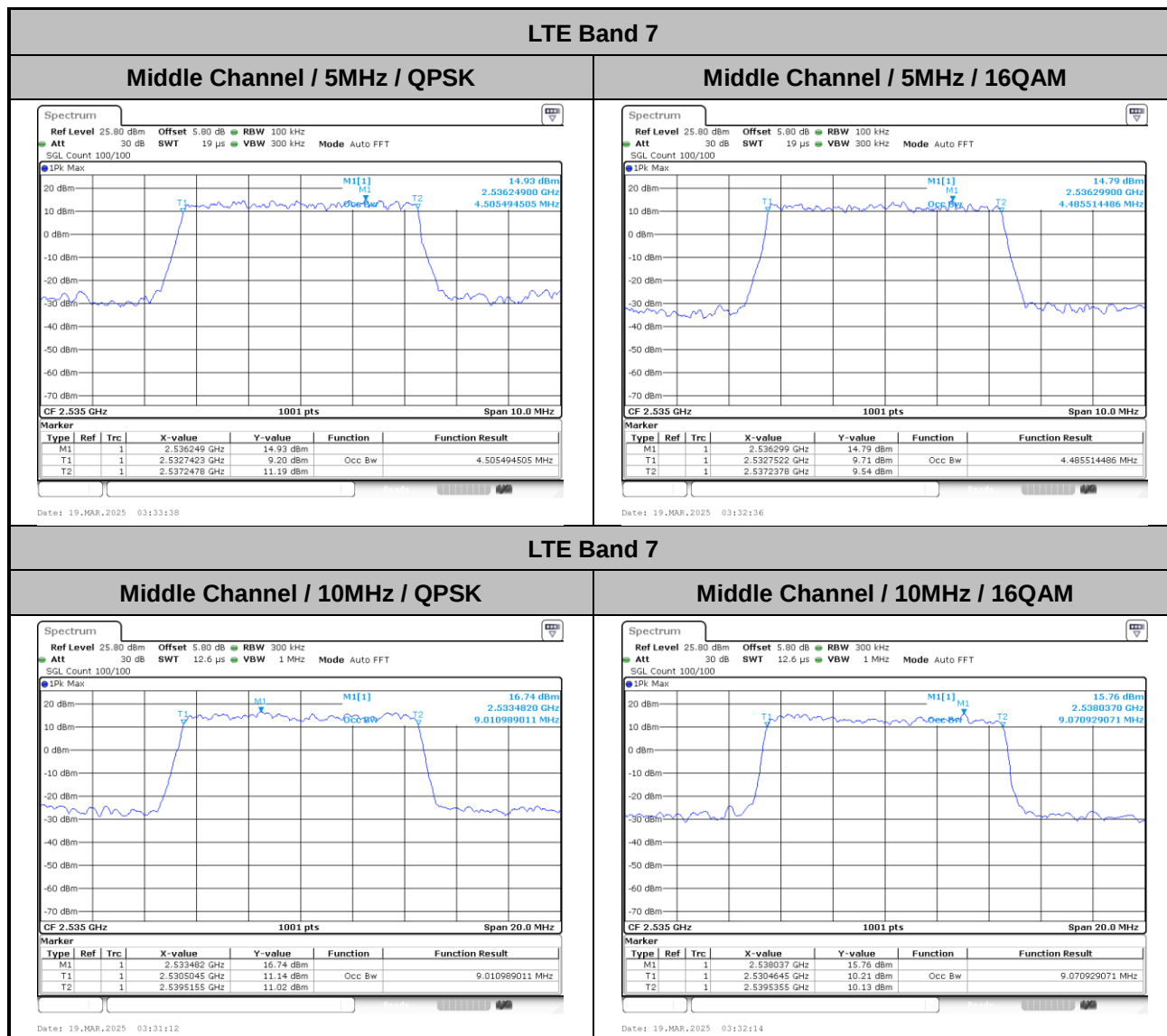


Date: 19.MAR.2025 03:22:04



Occupied Bandwidth

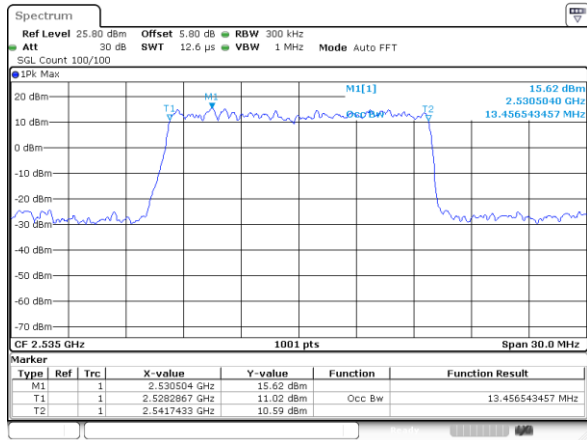
Mode	LTE Band 7 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.49	9.01	9.07	13.46	13.46	17.82	17.90



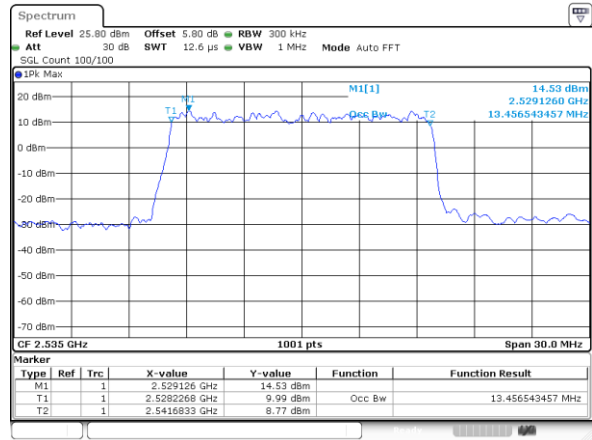


LTE Band 7

Middle Channel / 15MHz / QPSK

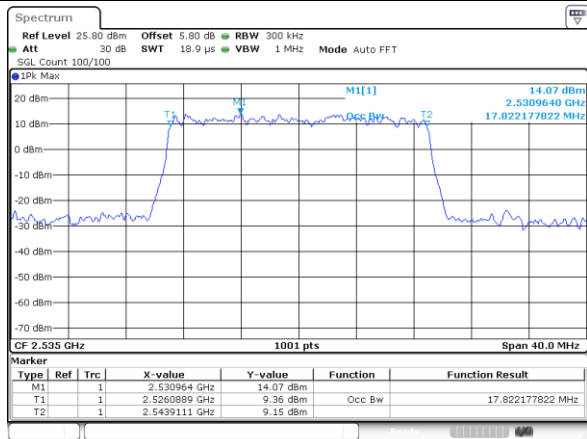


Middle Channel / 15MHz / 16QAM

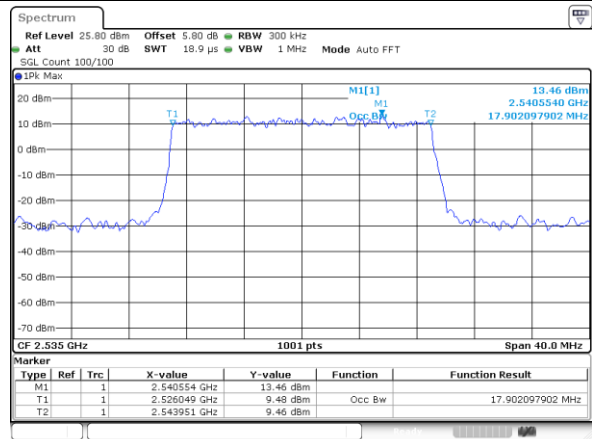


LTE Band 7

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

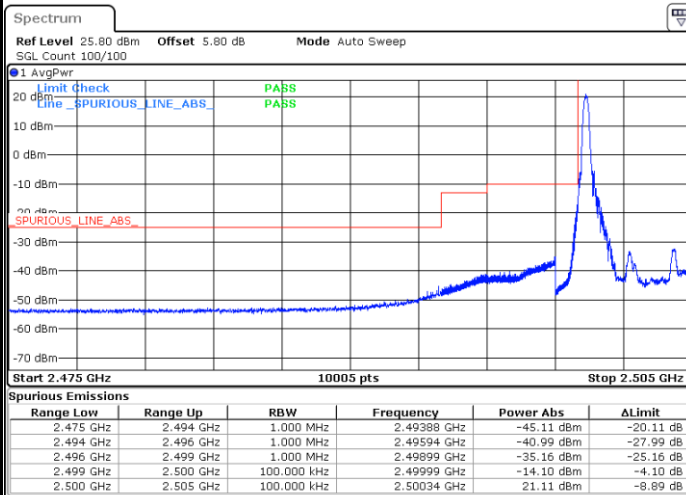




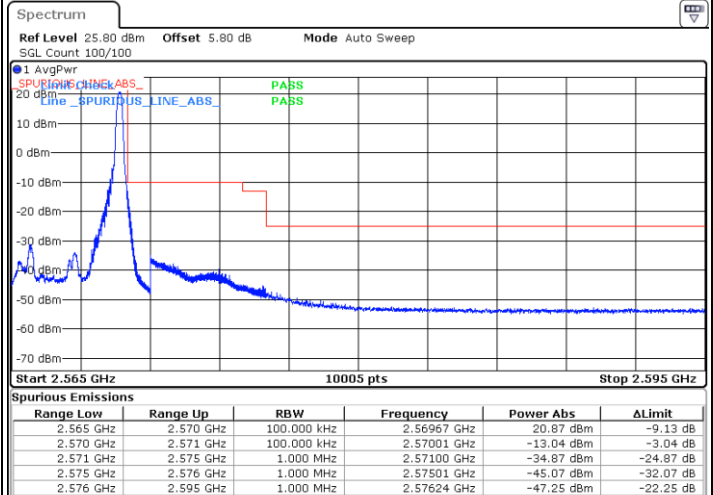
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

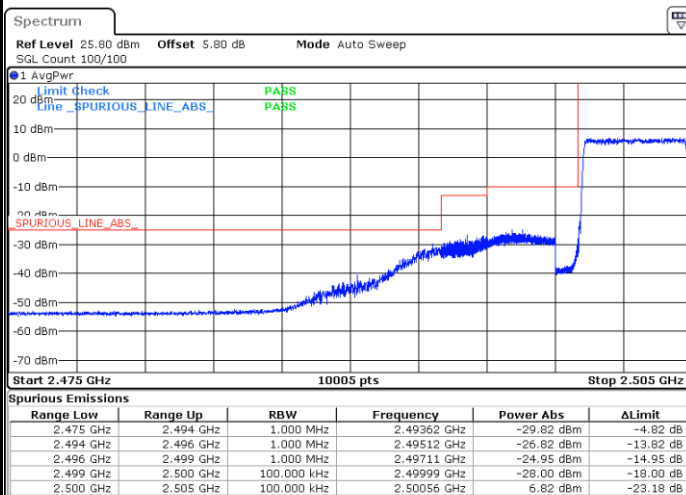
Lowest Band Edge / 1 RB



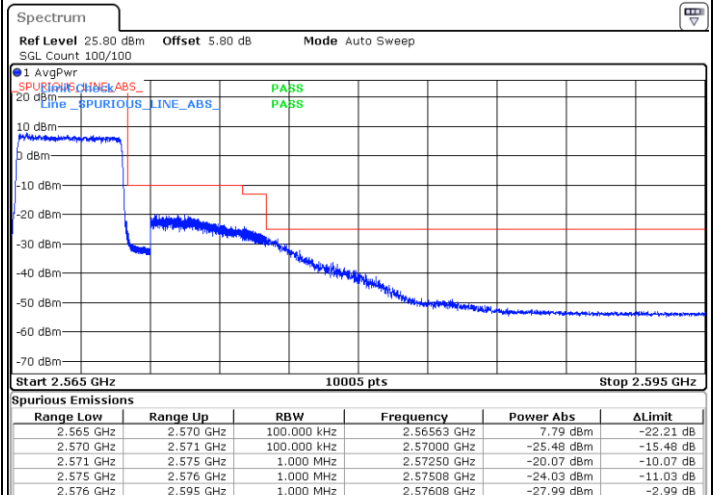
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



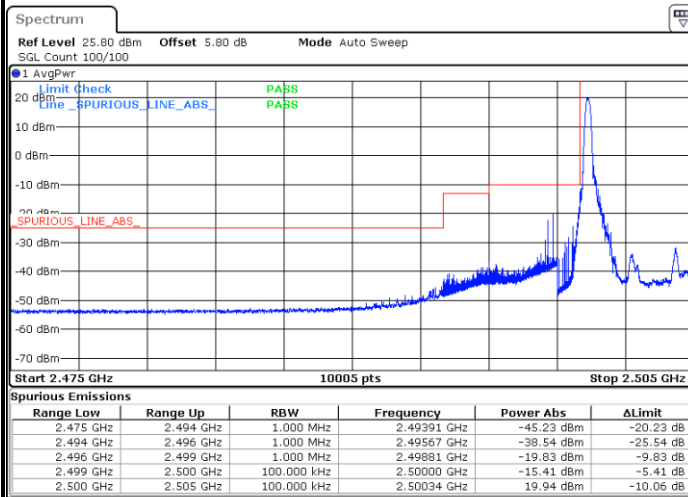
Highest Band Edge / Full RB



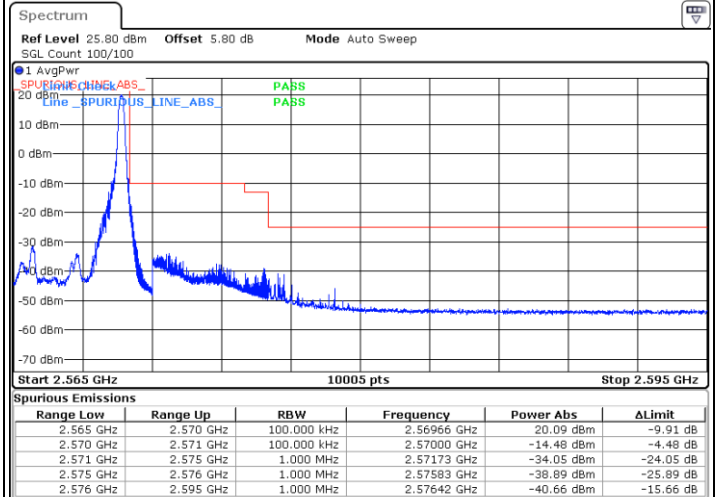


LTE Band 7 / 5MHz / 16QAM

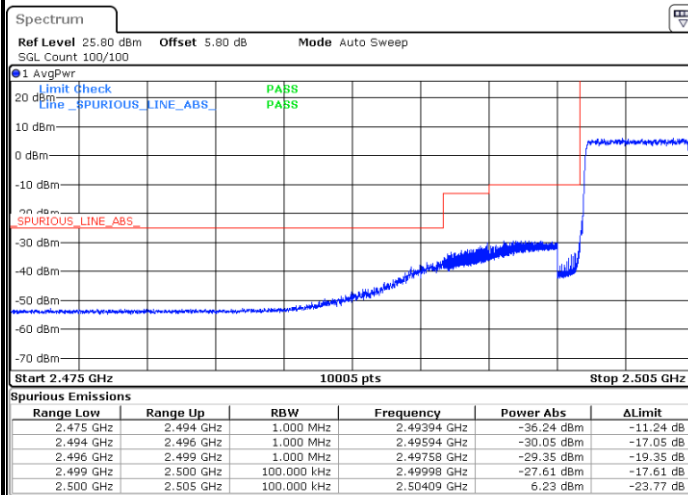
Lowest Band Edge / 1RB



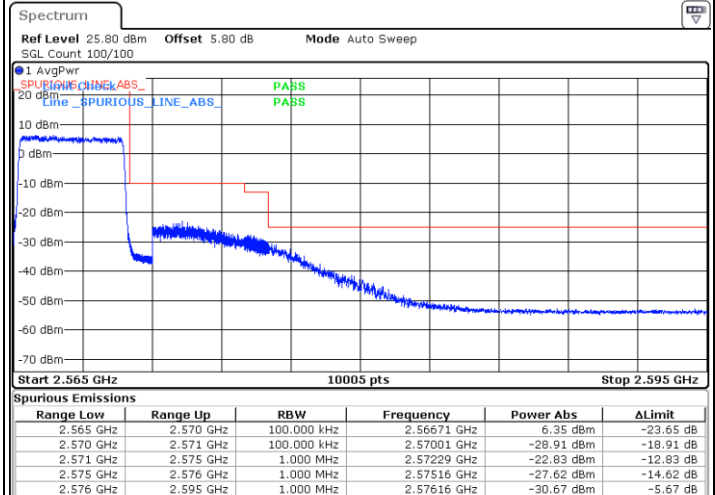
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



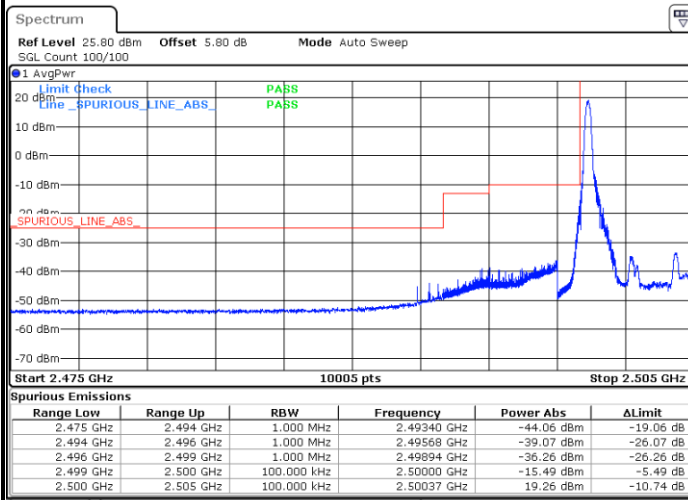
Highest Band Edge / Full RB



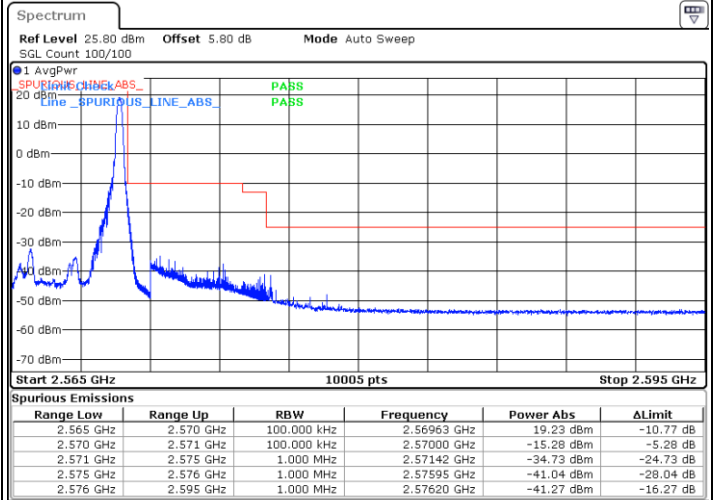


LTE Band 7 / 5MHz / 64QAM

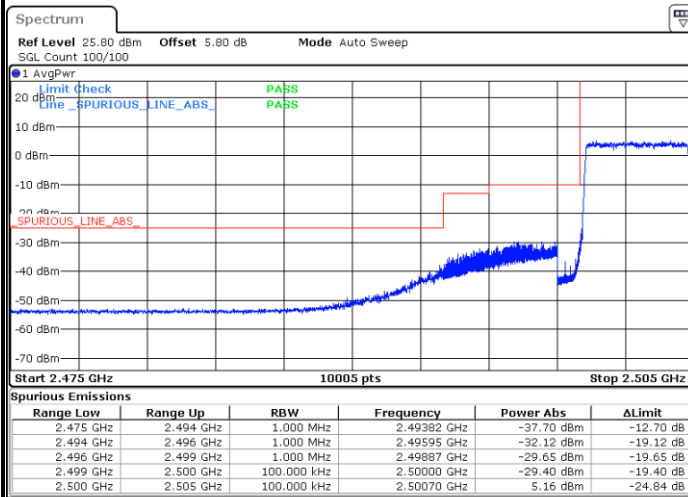
Lowest Band Edge / 1RB



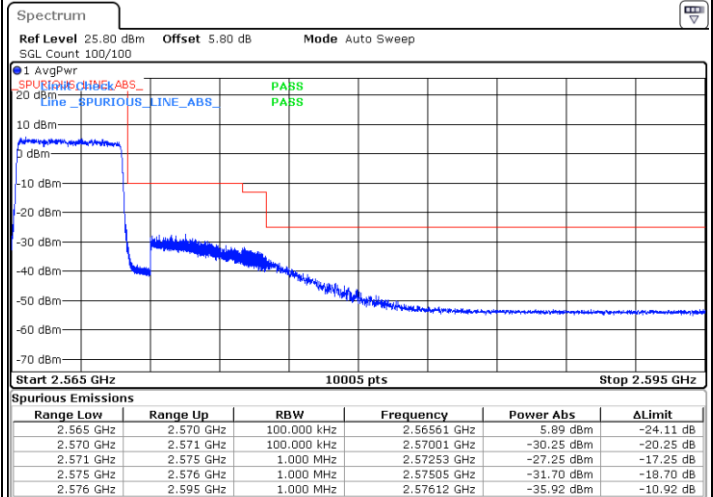
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



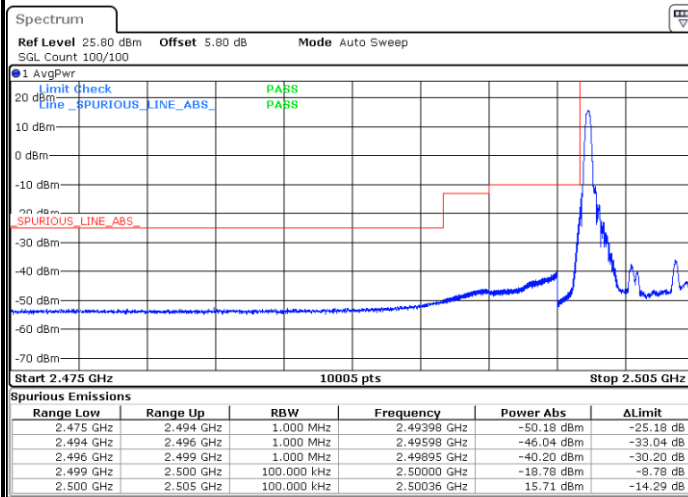
Highest Band Edge / Full RB



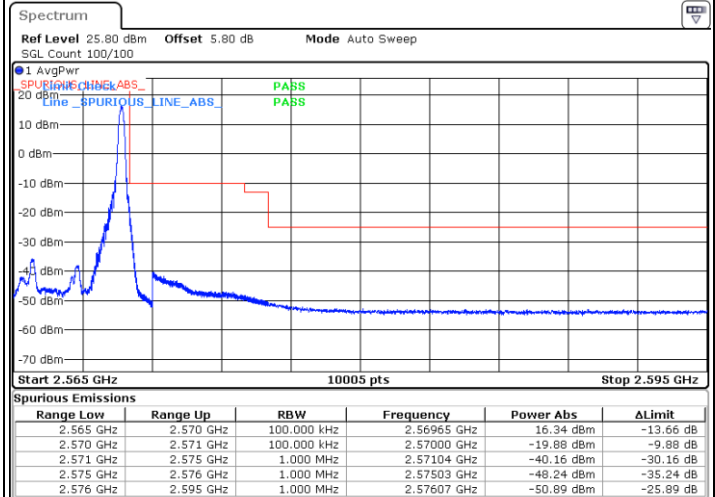


LTE Band 7 / 5MHz / 256QAM

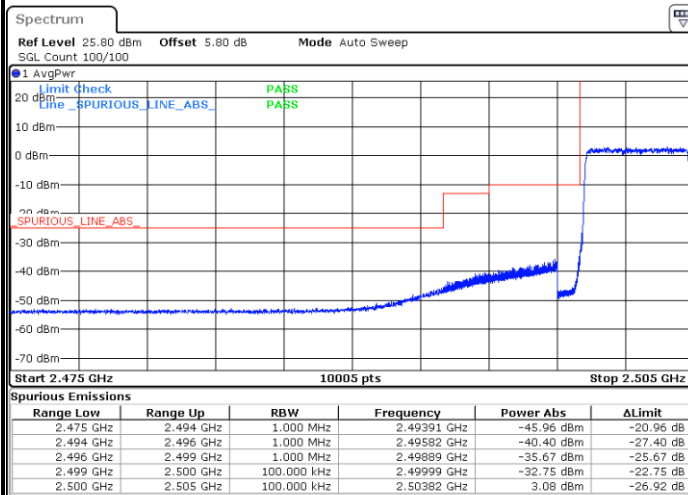
Lowest Band Edge / 1RB



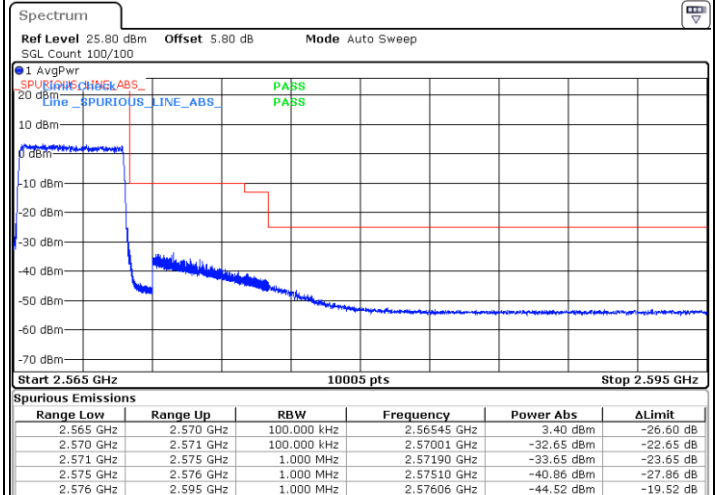
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



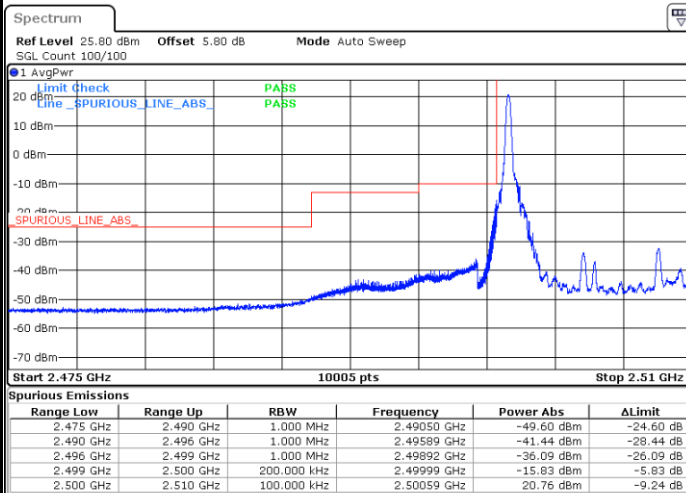
Highest Band Edge / Full RB



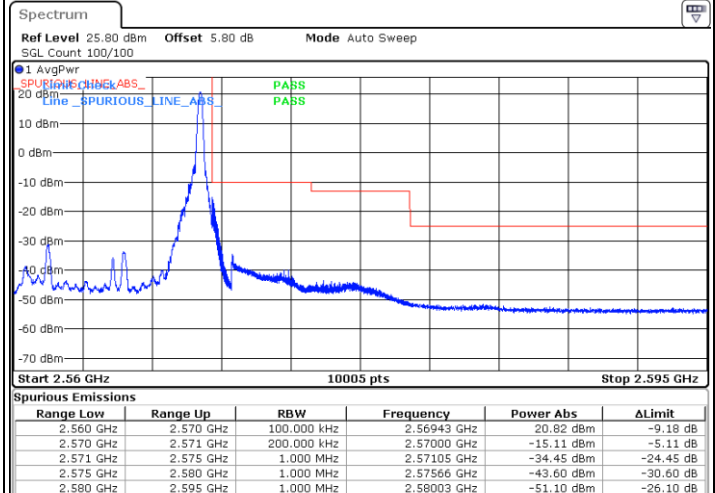


LTE Band 7 / 10MHz / QPSK

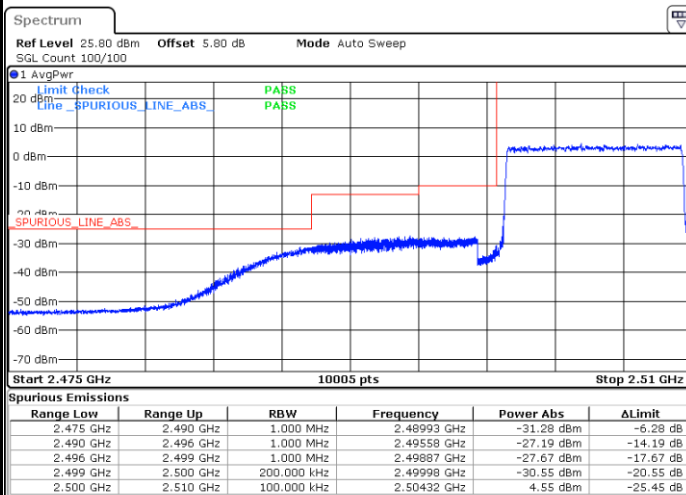
Lowest Band Edge / 1 RB



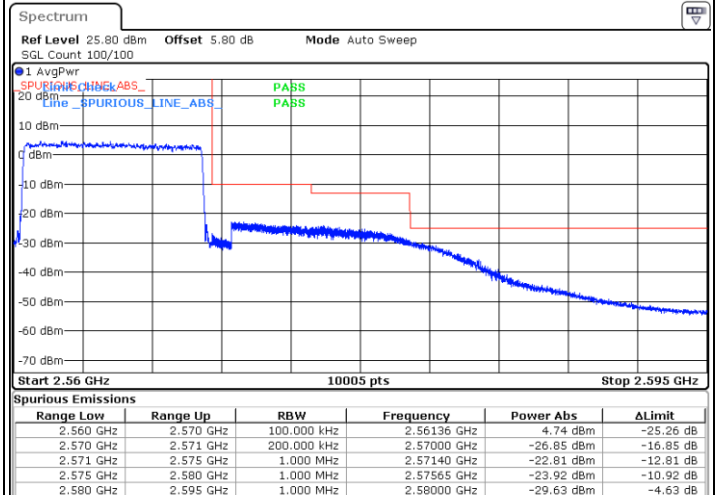
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



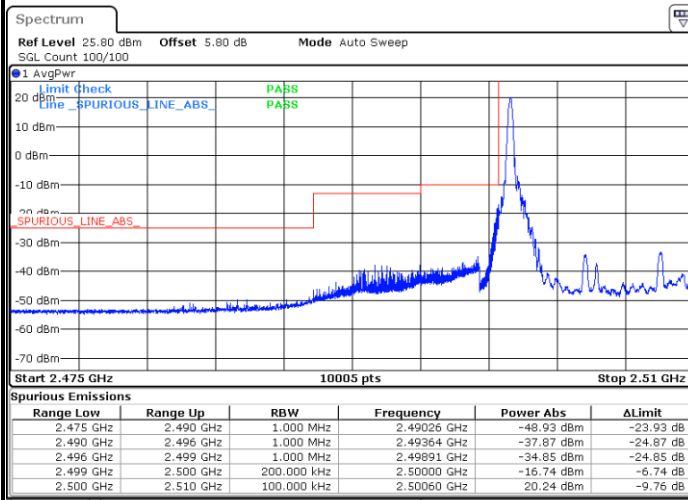
Highest Band Edge / Full RB



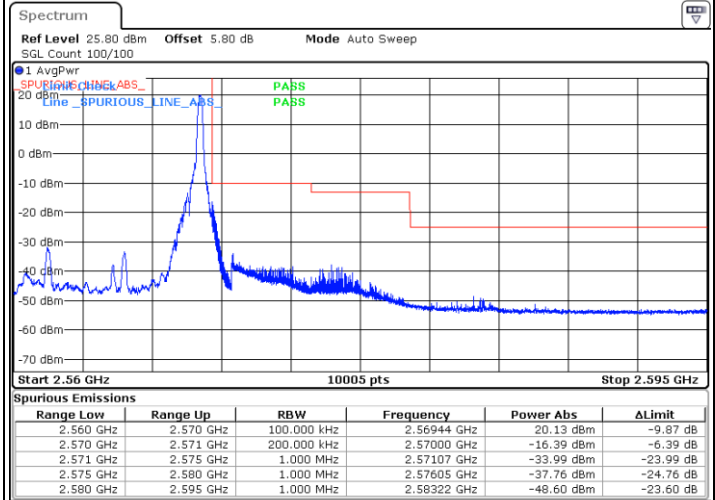


LTE Band 7 / 10MHz / 16QAM

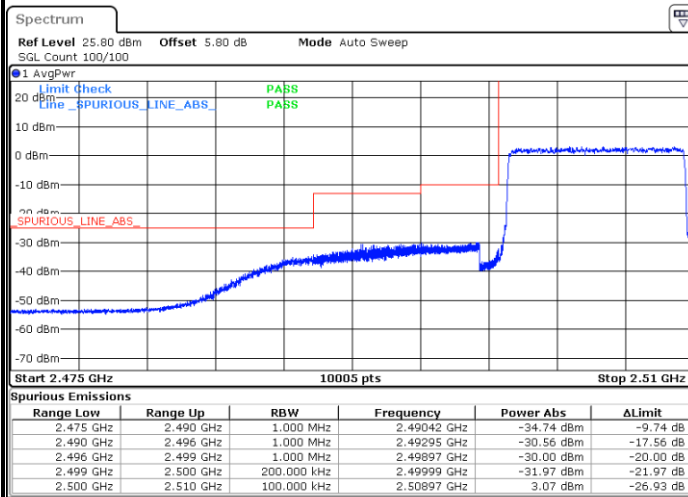
Lowest Band Edge / 1 RB



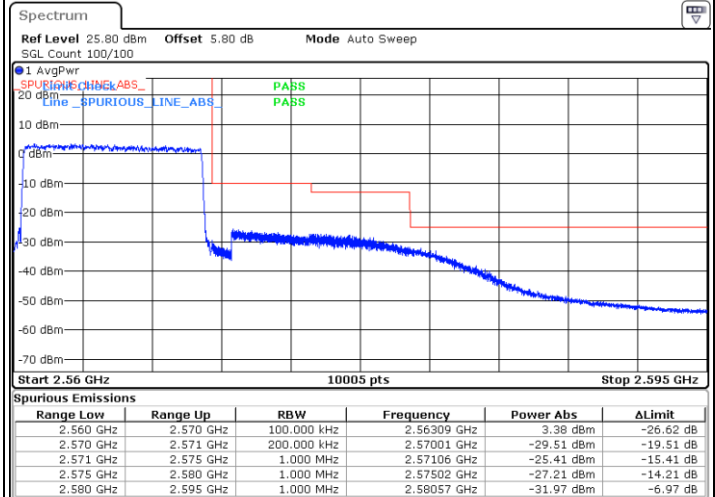
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



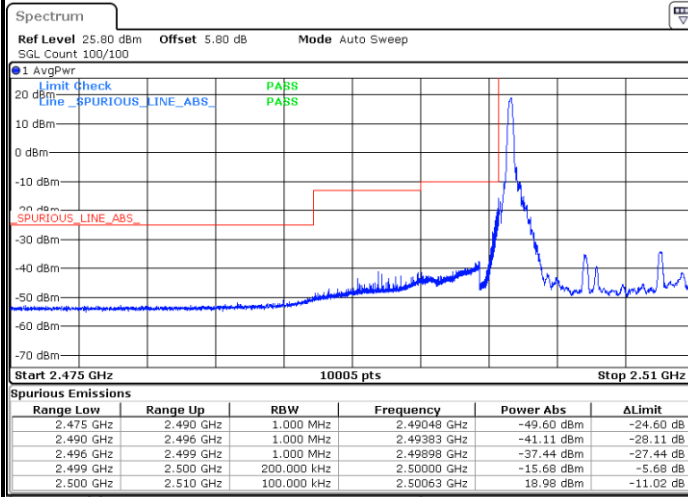
Highest Band Edge / Full RB



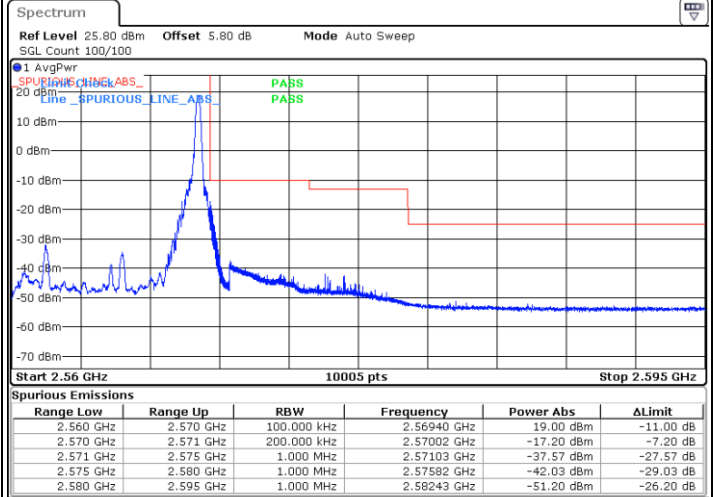


LTE Band 7 / 10MHz / 64QAM

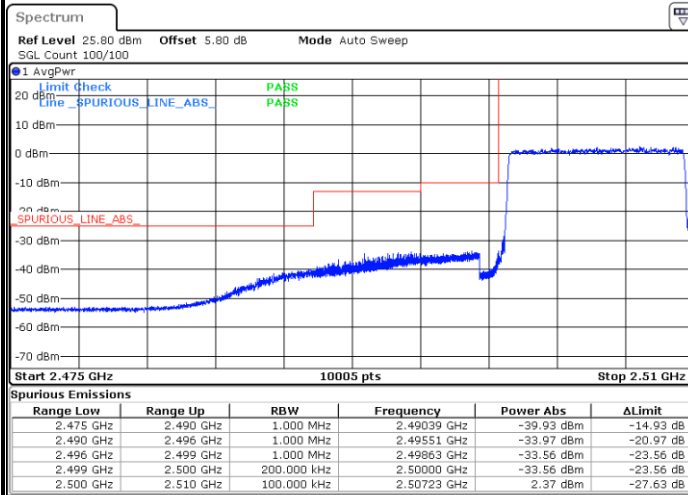
Lowest Band Edge / 1 RB



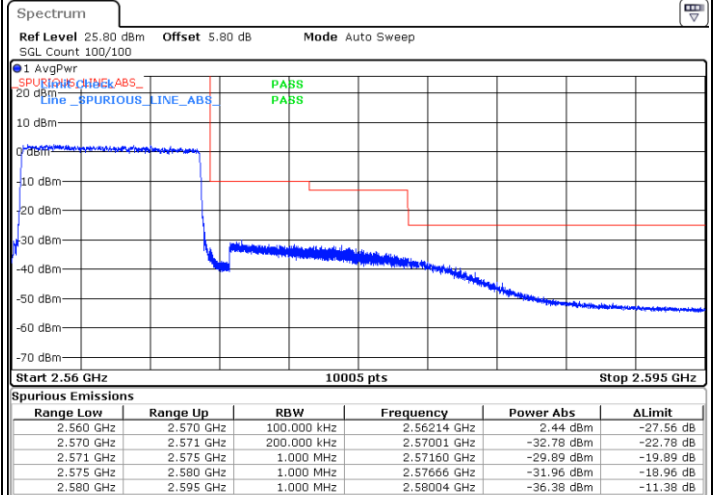
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



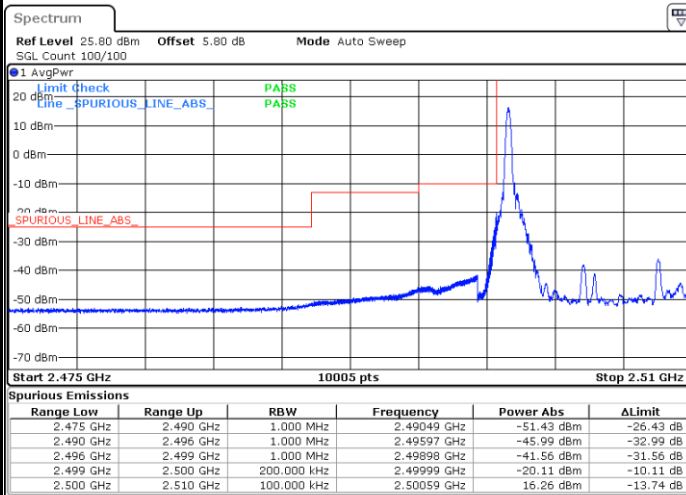
Highest Band Edge / Full RB



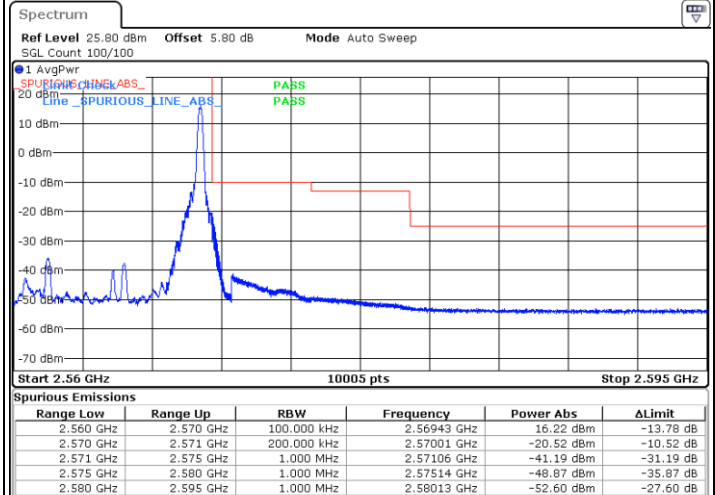


LTE Band 7 / 10MHz / 256QAM

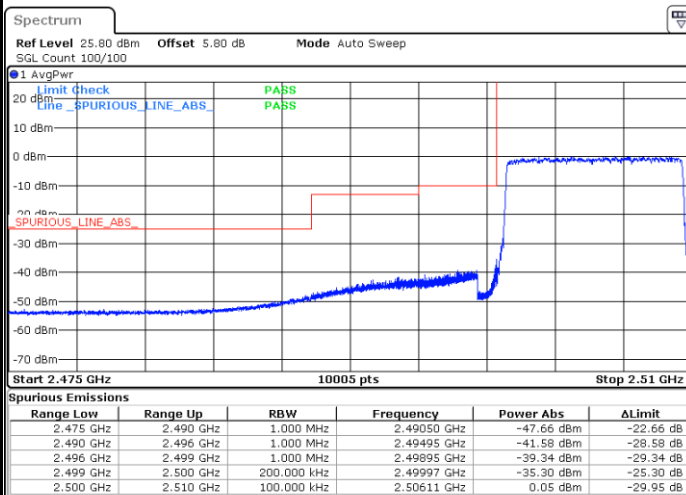
Lowest Band Edge / 1 RB



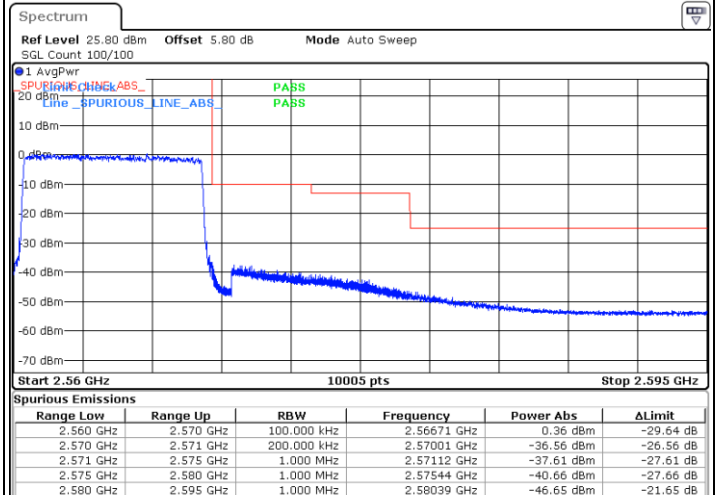
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



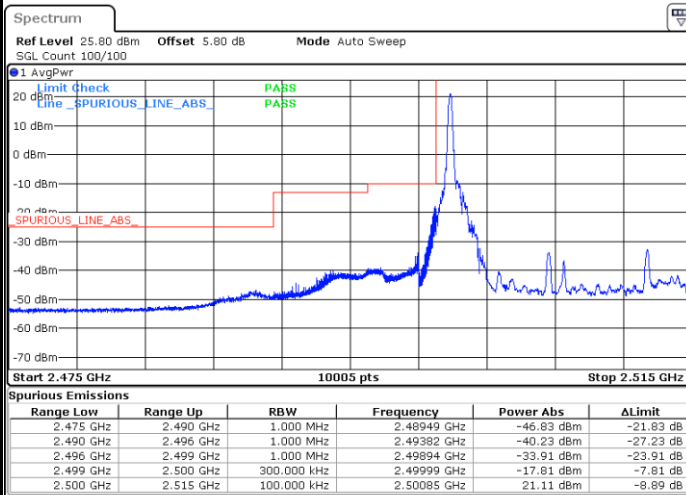
Highest Band Edge / Full RB



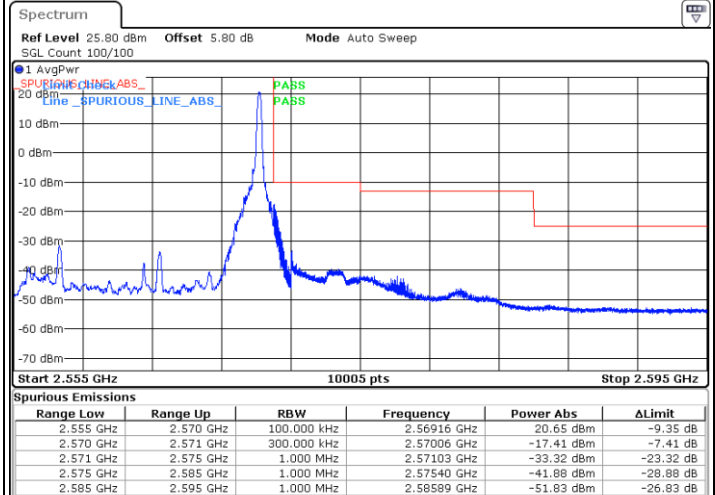


LTE Band 7 / 15MHz / QPSK

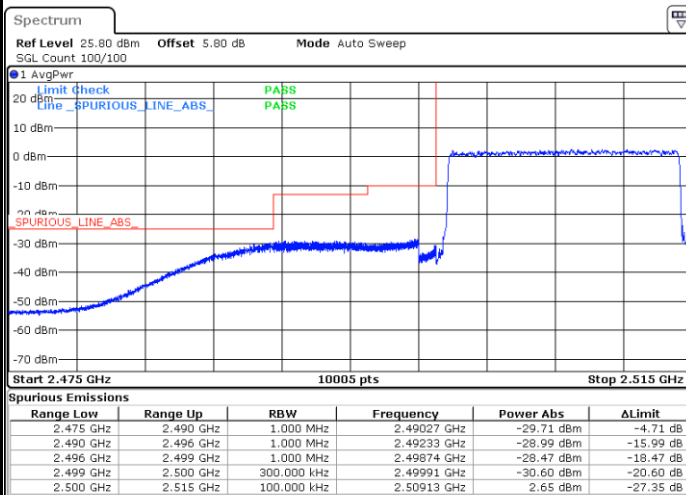
Lowest Band Edge / 1 RB



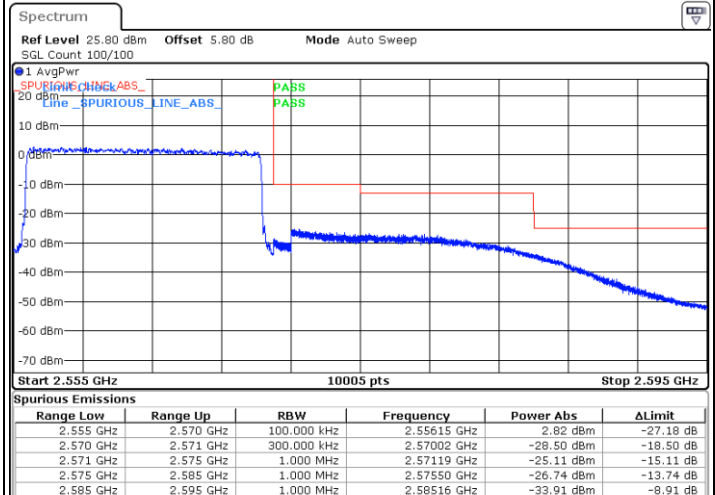
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



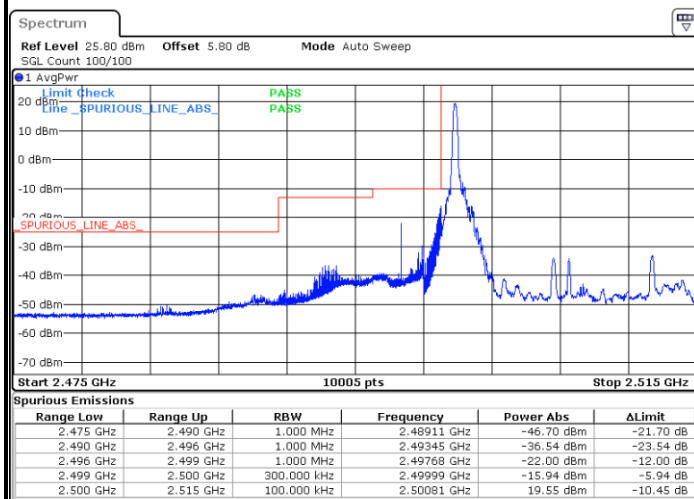
Highest Band Edge / Full RB



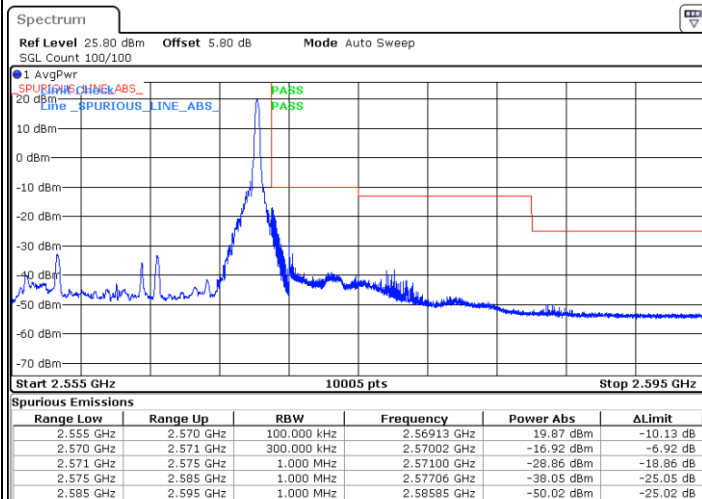


LTE Band 7 / 15MHz / 16QAM

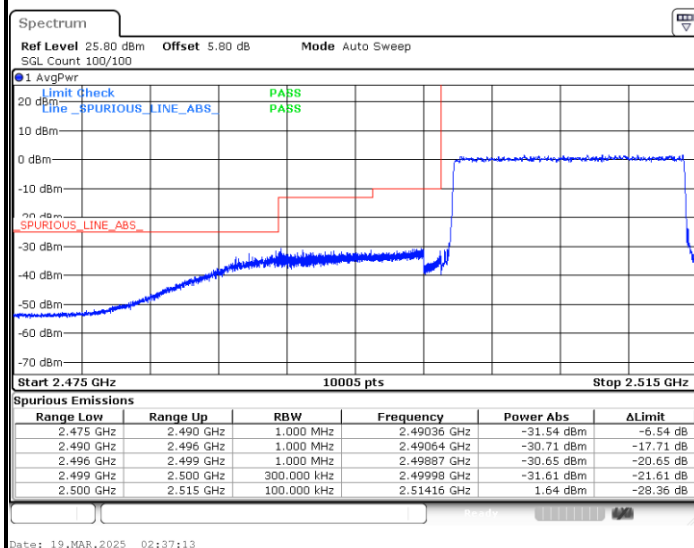
Lowest Band Edge / 1 RB



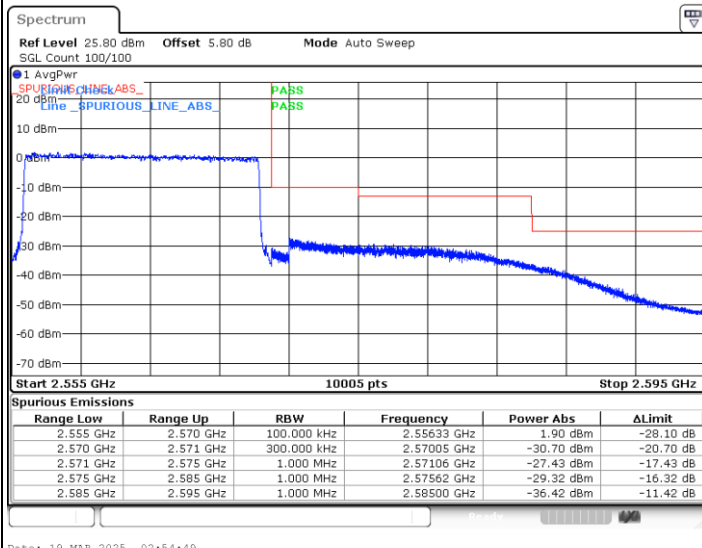
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



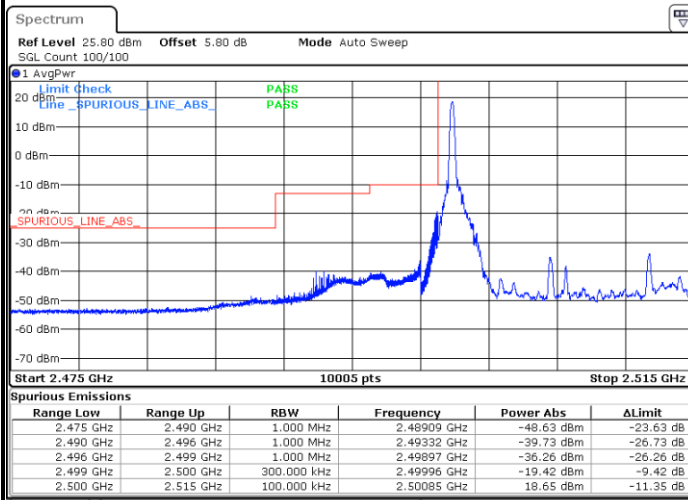
Highest Band Edge / Full RB





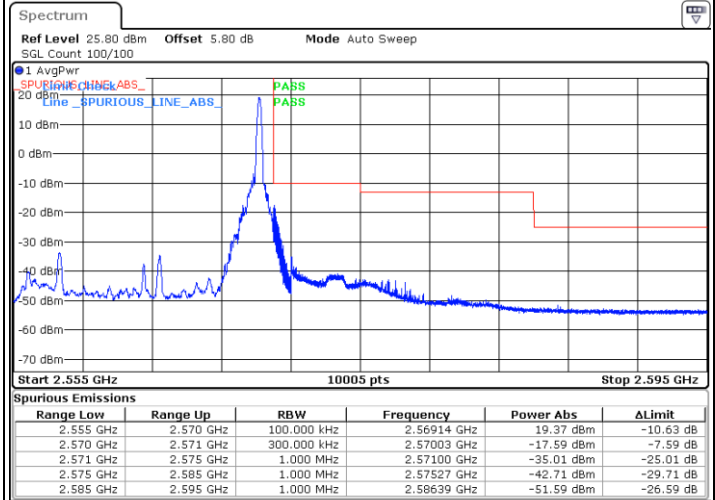
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



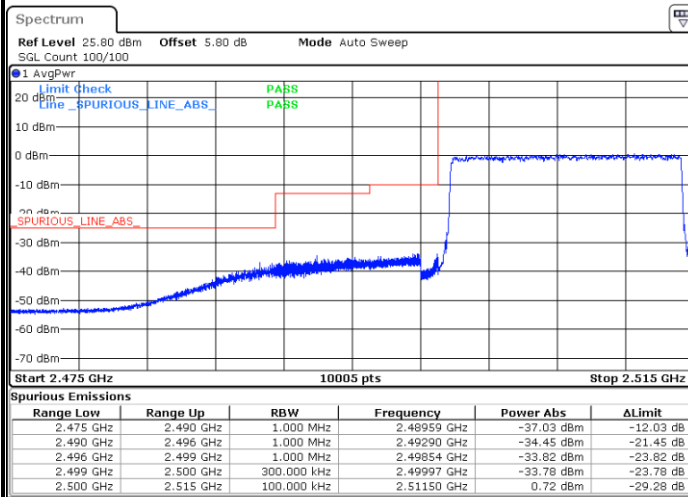
Date: 19.MAR.2025 02:43:37

Highest Band Edge / 1 RB



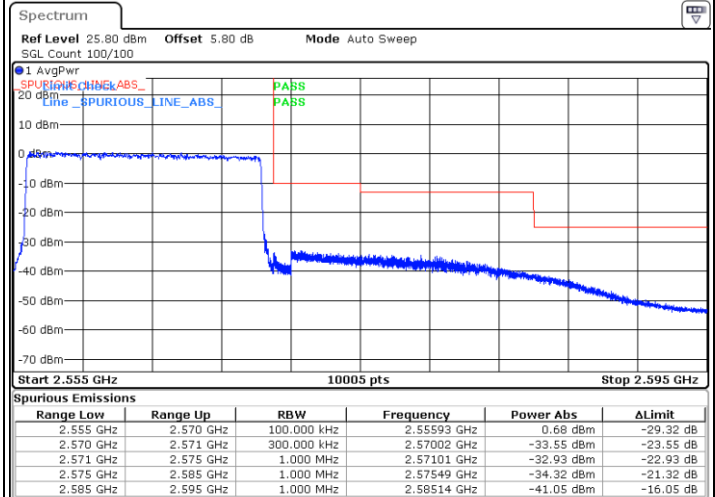
Date: 19.MAR.2025 02:51:38

Lowest Band Edge / Full RB



Date: 19.MAR.2025 02:38:19

Highest Band Edge / Full RB

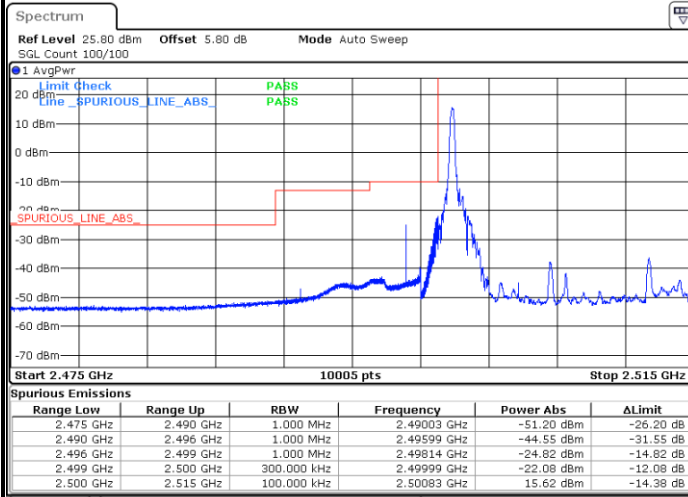


Date: 19.MAR.2025 02:56:25

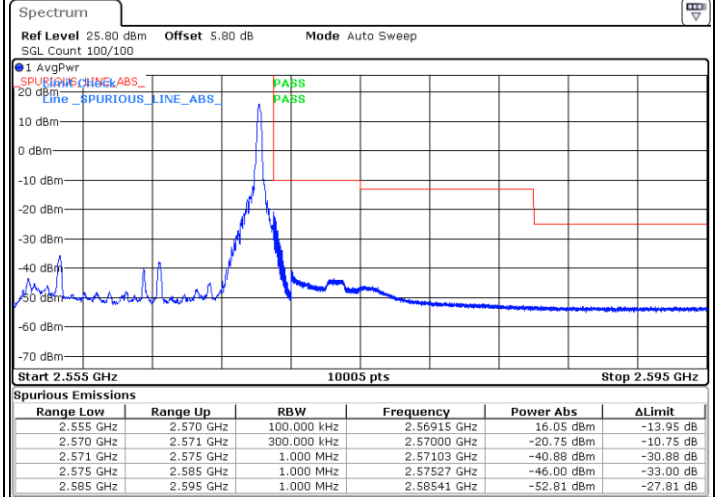


LTE Band 7 / 15MHz / 256QAM

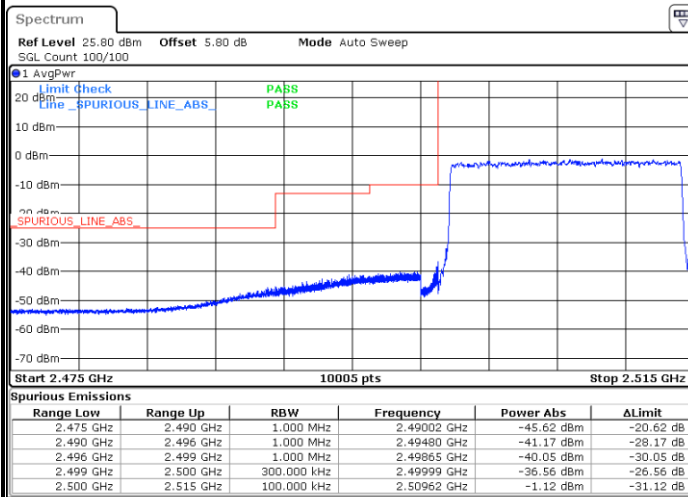
Lowest Band Edge / 1 RB



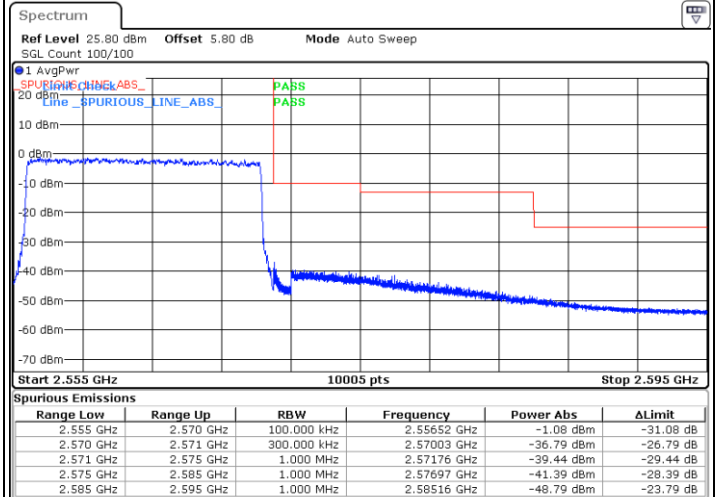
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



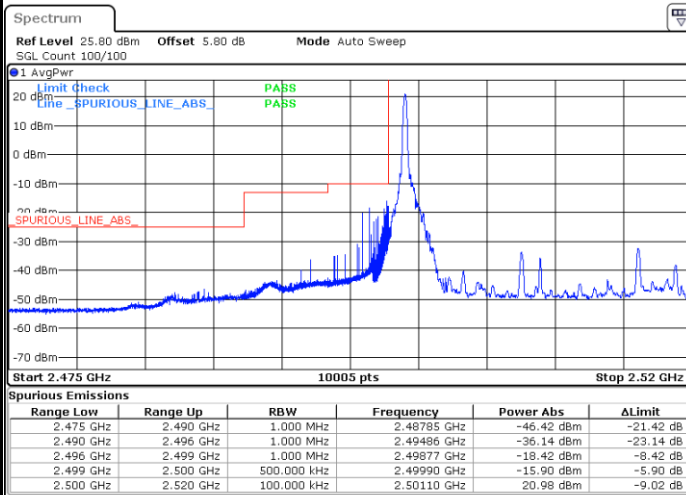
Highest Band Edge / Full RB



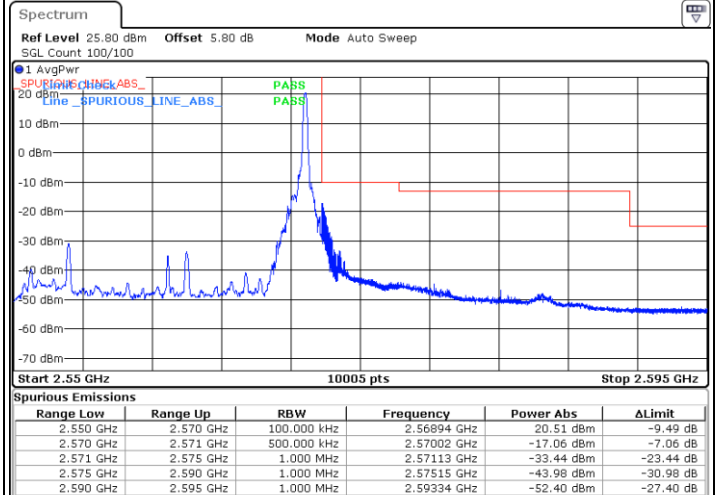


LTE Band 7 / 20MHz / QPSK

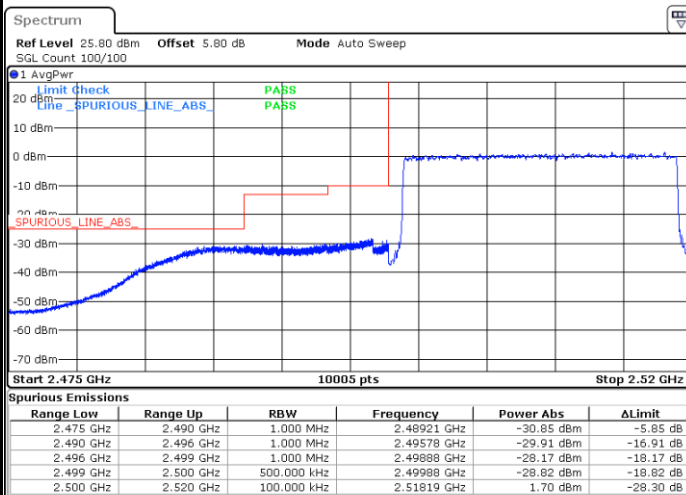
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

