



FCC RF Test Report

APPLICANT : Shenzhen Tinno Mobile Technology Corp.
EQUIPMENT : Watch
MODEL NAME : W568AA
FCC ID : XD6W568AA
STANDARD : 47 CFR Part 22(H), 24(E), 27(L), 27(H), 27(M)
CLASSIFICATION : PCS Licensed Transmitter worn on body (PCT)
TEST DATE(S) : Mar. 21, 2025 ~ May 27, 2025

We, Sporton International Inc. (ShenZhen), 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 Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG530516	Rev. 01	Initial issue of report	Jun. 03, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12)	ERP < 3 Watt		-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 24.92 dB at 10104.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	< 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/manufacture 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

Shenzhen Tinno Mobile Technology Corp.

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.2 Manufacturer

Shenzhen Tinno Mobile Technology Corp.

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Watch
Model Name	W568AA
FCC ID	XD6W568AA
IMEI Code	865645070001918
HW Version	V1.0
SW Version	W568AAV01.05.10
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 66 : 2110 MHz ~ 2180 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.12 dBm LTE Band 4 : 21.72 dBm LTE Band 5 : 22.31 dBm LTE Band 7 : 22.91 dBm LTE Band 12 : 22.79 dBm LTE Band 66 : 22.49 dBm
Antenna Gain	LTE Band 2 : -8.07 dBi LTE Band 4 : -8.43 dBi LTE Band 5 : -12.39 dBi LTE Band 7 : -6.59 dBi LTE Band 12 : -12.15 dBi LTE Band 66 : -8.10 dBi
Type of Modulation	QPSK / 16QAM

Note: The device supports LTE Category 1.

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 2		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.0243	1M08G7D	0.0197	1M09W7D
3	1851.5 ~ 1908.5	0.0242	2M71G7D	0.0201	2M73W7D
5	1852.5 ~ 1907.5	0.0252	4M50G7D	0.0207	4M50W7D
10	1855.0 ~ 1905.0	0.0252	8M95G7D	0.0196	5M01W7D
15	1857.5 ~ 1902.5	0.0252	13M4G7D	0.0199	5M03W7D
20	1860.0 ~ 1900.0	0.0254	17M9G7D	0.0202	5M23W7D
LTE Band 4		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.0212	1M09G7D	0.0169	1M09W7D
3	1711.5 ~ 1753.5	0.0198	2M72G7D	0.0163	2M72W7D
5	1712.5 ~ 1752.5	0.0196	4M49G7D	0.0160	4M47W7D
10	1715.0 ~ 1750.0	0.0205	8M99G7D	0.0161	5M03W7D
15	1717.5 ~ 1747.5	0.0205	13M4G7D	0.0169	4M95W7D
20	1720.0 ~ 1745.0	0.0213	17M9G7D	0.0171	5M03W7D
LTE Band 5		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0058	1M10G7D	0.0045	1M09W7D
3	825.5 ~ 847.5	0.0056	2M72G7D	0.0044	2M70W7D
5	826.5 ~ 846.5	0.0059	4M51G7D	0.0046	4M49W7D
10	829.0 ~ 844.0	0.0060	9M01G7D	0.0047	5M00W7D
LTE Band 7		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.0400	4M48G7D	0.0316	4M48W7D
10	2505.0 ~ 2565.0	0.0385	8M99G7D	0.0318	5M01W7D
15	2507.5 ~ 2562.5	0.0427	13M4G7D	0.0340	4M95W7D
20	2510.0 ~ 2560.0	0.0429	17M9G7D	0.0335	5M07W7D



LTE Band 12		QPSK		16QAM	
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	0.0068	1M10G7D	0.0054	1M09W7D
3	700.5 ~ 714.5	0.0066	2M71G7D	0.0052	2M73W7D
5	701.5 ~ 713.5	0.0069	4M48G7D	0.0055	4M48W7D
10	704.0 ~ 711.0	0.0071	9M05G7D	0.0052	5M05W7D
LTE Band 66		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1779.3	0.0269	1M09G7D	0.0200	1M09W7D
3	1711.5 ~ 1778.5	0.0258	2M72G7D	0.0197	2M72W7D
5	1712.5 ~ 1777.5	0.0258	4M49G7D	0.0205	4M47W7D
10	1715.0 ~ 1775.0	0.0252	8M99G7D	0.0207	5M03W7D
15	1717.5 ~ 1772.5	0.0259	13M4G7D	0.0207	4M95W7D
20	1720.0 ~ 1770.0	0.0275	17M9G7D	0.0214	5M03W7D

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. 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. (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.
	TH01-SZ 03CH02-SZ	CN1256	421272



1.8 Applicable Standards

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

- ♦ 47 CFR Part 22(H), 24(E), 27(L), 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: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

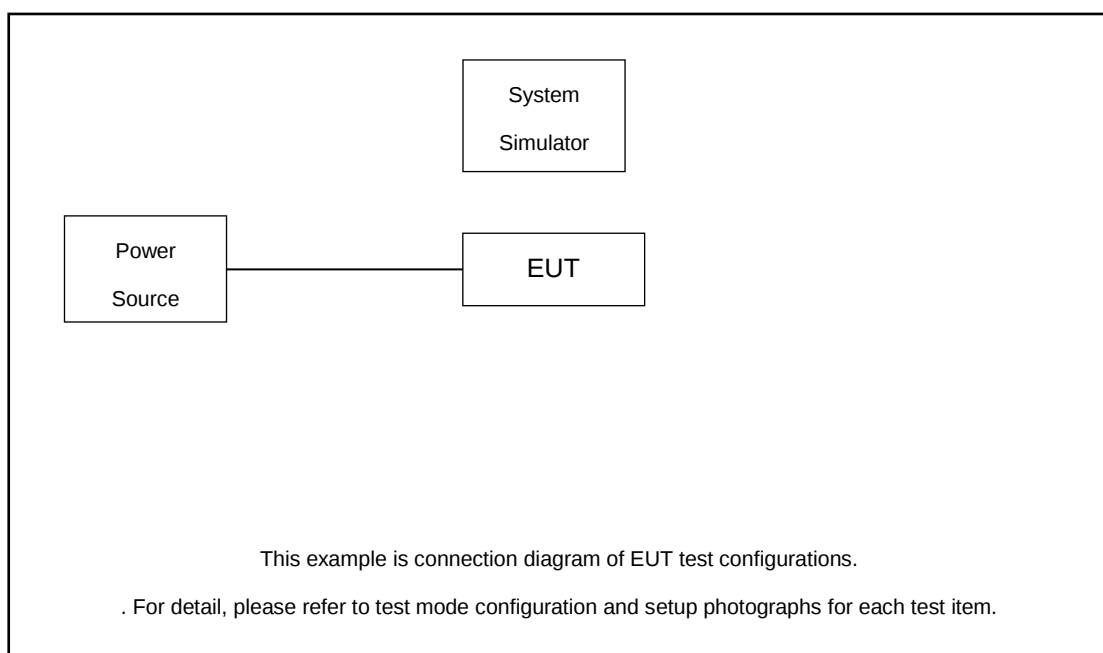
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	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
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	-			v		v	
	5				v	-	-	v	v	-			v		v	
	7	-	-				v	v	v	-			v		v	
	12				v	-	-	v	v	-			v		v	
	66						v	v	v	-			v		v	
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	-			v		v	
	5	v	v	v	v	-	-	v	v	-			v		v	
	7	-	-	v	v	v	v	v	v	-			v		v	
	12	v	v	v	v	-	-	v	v	-			v		v	
	66	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
	5	v	v	v	v	-	-	v	v	-	v		v	v		v
	7	-	-	v	v	v	v	v	v	-	v		v	v		v
	12	v	v	v	v	-	-	v	v	-	v		v	v		v
	66	v	v	v	v	v	v	v	v	-	v		v	v		v
Conducted Spurious Emission	2	v	v	v	v	v	v	v		-	v			v	v	v
	5	v	v	v	v	-	-	v		-	v			v	v	v
	7	-	-	v	v	v	v	v		-	v			v	v	v
	12	v	v	v	v	-	-	v		-	v			v	v	v
	66	v	v	v	v	v	v	v		-	v			v	v	v

Frequency Stability	2				v			v		-			v		v	
	5				v	-	-	v		-			v		v	
	7	-	-		v			v		-			v		v	
	12				v	-	-	v		-			v		v	
	66				v			v		-			v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	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
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	5	Worst Case													v	
	7	Worst Case													v	
	12	Worst Case													v	
	66	Worst Case													v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System





2.3 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

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

2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3



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

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



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

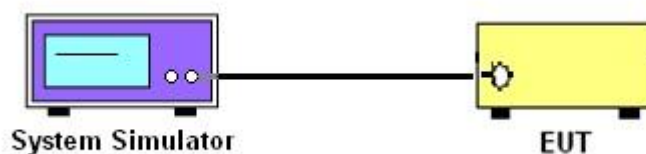
3 Conducted Test Items

3.1 Measuring Instruments

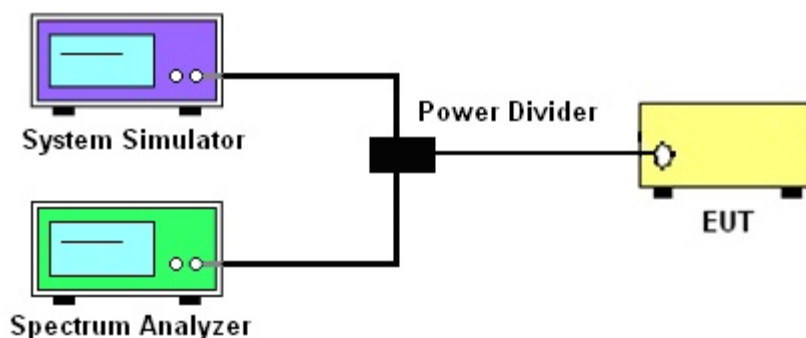
See list of measuring instruments of this test report.

3.2 Test Setup

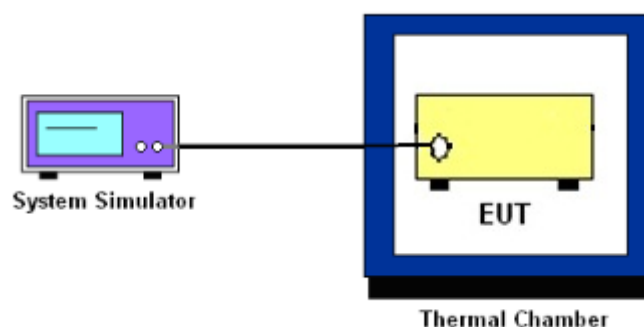
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

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



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4)

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

adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

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

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

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

8. For LTE Band 7, the other 40 dB, and 55 dB have additionally applied same calculation above.
9. 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:

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)
 $= -13$ dBm.
11. For Band 7
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

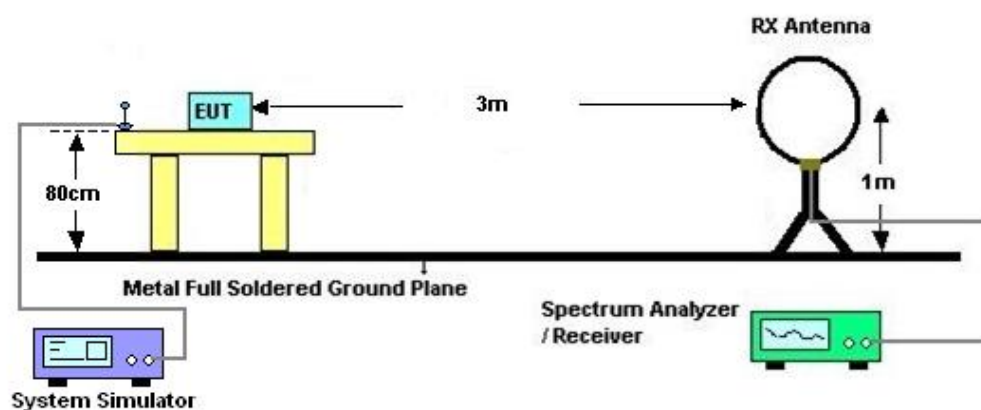
4 Radiated Test Items

4.1 Measuring Instruments

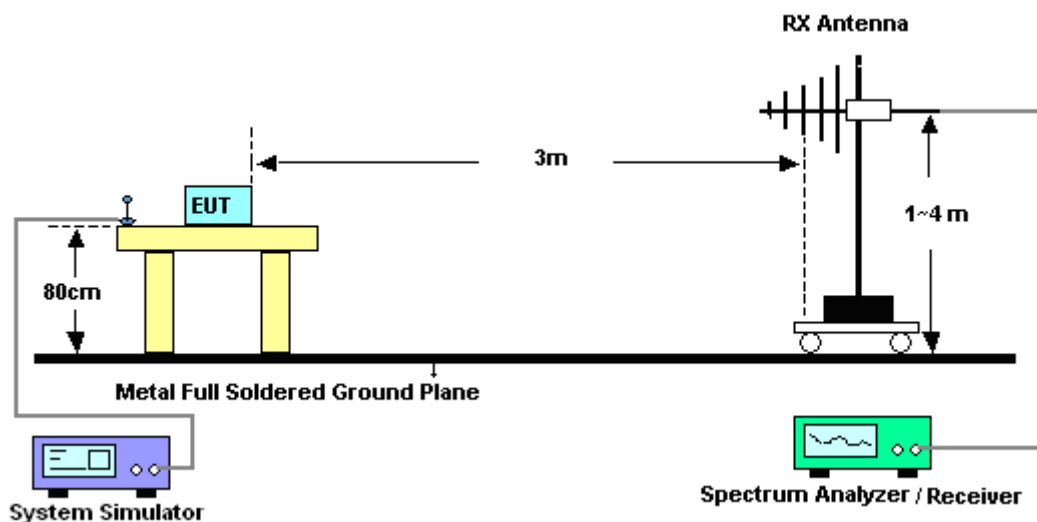
See list of measuring instruments of this test report.

4.2 Test Setup

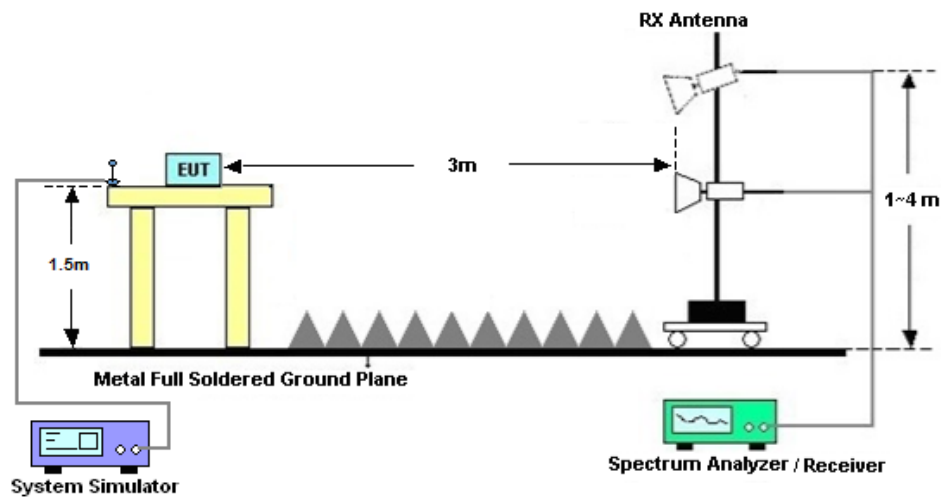
4.2.1 For radiated test below 30MHz



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

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.

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

4.4.2 Test Procedures

6. The testing follows ANSI C63.26 Section 5.5
7. 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.
8. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
9. The table was rotated 360 degrees to determine the position of the highest spurious emission.
10. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
11. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
12. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
13. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
14. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
15. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
16. $ERP \text{ (dBm)} = EIRP - 2.15$
17. 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)

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

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

$$= -13\text{dBm}.$$

18. For Band 7:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Mar. 21, 2025~ Mar. 22, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N00518 0	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Mar. 21, 2025~ Mar. 22, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Mar. 21, 2025~ Mar. 22, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	May 27, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 27, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	May 27, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	May 27, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 27, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 03, 2025	May 27, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	May 27, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	May 27, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	May 27, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 27, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 27, 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

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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 :	Nina Cheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	21.89	22.01	21.96	0.0241	0.0248	0.0245
20	QPSK	1	49	22.11	22.09	22.12	0.0254	0.0252	0.0254
20	QPSK	1	99	21.66	21.75	21.80	0.0229	0.0233	0.0236
20	QPSK	50	0	21.00	20.89	20.97	0.0196	0.0191	0.0195
20	QPSK	50	24	21.07	21.09	21.10	0.0200	0.0200	0.0201
20	QPSK	50	50	20.94	20.88	20.92	0.0194	0.0191	0.0193
20	QPSK	100	0	20.90	20.89	20.97	0.0192	0.0191	0.0195
20	16QAM	1	0	20.66	20.78	20.58	0.0182	0.0187	0.0178
20	16QAM	1	13	20.93	20.80	20.78	0.0193	0.0187	0.0187
20	16QAM	1	26	20.71	21.06	20.66	0.0184	0.0199	0.0182
20	16QAM	12	0	21.13	20.84	20.79	0.0202	0.0189	0.0187
20	16QAM	12	7	20.94	20.90	20.73	0.0194	0.0192	0.0185
20	16QAM	12	15	20.86	20.84	20.87	0.0190	0.0189	0.0191
20	16QAM	27	0	19.81	19.80	19.82	0.0149	0.0149	0.0150
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.01	21.85	21.70	0.0248	0.0239	0.0231
15	QPSK	1	37	22.04	22.04	22.08	0.0249	0.0249	0.0252
15	QPSK	1	74	21.85	21.77	21.72	0.0239	0.0234	0.0232
15	QPSK	36	0	21.05	21.09	20.98	0.0199	0.0200	0.0195
15	QPSK	36	20	20.95	21.06	20.92	0.0194	0.0199	0.0193
15	QPSK	36	39	21.00	20.93	20.95	0.0196	0.0193	0.0194
15	QPSK	75	0	20.98	20.96	21.04	0.0195	0.0195	0.0198
15	16QAM	1	0	20.56	20.88	20.67	0.0177	0.0191	0.0182
15	16QAM	1	13	20.83	20.97	20.81	0.0189	0.0195	0.0188
15	16QAM	1	26	20.73	20.88	20.98	0.0185	0.0191	0.0195
15	16QAM	12	0	21.02	20.88	20.89	0.0197	0.0191	0.0191
15	16QAM	12	7	20.96	20.85	20.96	0.0195	0.0190	0.0195
15	16QAM	12	15	21.06	21.05	21.01	0.0199	0.0199	0.0197
15	16QAM	27	0	19.88	19.99	19.99	0.0152	0.0156	0.0156
Channel				18650	18900	19150	EIRP(W)		



Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	21.78	21.67	21.72	0.0235	0.0229	0.0232
10	QPSK	1	25	21.97	22.08	22.07	0.0245	0.0252	0.0251
10	QPSK	1	49	21.70	21.73	21.65	0.0231	0.0232	0.0228
10	QPSK	25	0	21.06	20.96	20.93	0.0199	0.0195	0.0193
10	QPSK	25	12	20.97	21.00	20.98	0.0195	0.0196	0.0195
10	QPSK	25	25	21.02	20.87	20.85	0.0197	0.0191	0.0190
10	QPSK	50	0	21.04	21.03	21.02	0.0198	0.0198	0.0197
10	16QAM	1	0	20.85	20.73	20.96	0.0190	0.0185	0.0195
10	16QAM	1	13	20.83	20.84	20.93	0.0189	0.0189	0.0193
10	16QAM	1	26	20.80	20.83	20.91	0.0187	0.0189	0.0192
10	16QAM	12	0	20.74	20.92	20.93	0.0185	0.0193	0.0193
10	16QAM	12	7	20.91	20.81	20.97	0.0192	0.0188	0.0195
10	16QAM	12	15	20.98	20.85	20.99	0.0195	0.0190	0.0196
10	16QAM	27	0	19.83	19.92	19.93	0.0150	0.0153	0.0153
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	21.91	21.62	21.68	0.0242	0.0226	0.0230
5	QPSK	1	12	22.02	22.09	21.99	0.0248	0.0252	0.0247
5	QPSK	1	24	21.76	21.60	21.65	0.0234	0.0225	0.0228
5	QPSK	12	0	20.92	21.06	20.82	0.0193	0.0199	0.0188
5	QPSK	12	7	21.04	20.95	20.86	0.0198	0.0194	0.0190
5	QPSK	12	13	20.94	21.00	20.83	0.0194	0.0196	0.0189
5	QPSK	25	0	21.00	20.86	20.86	0.0196	0.0190	0.0190
5	16QAM	1	0	21.10	21.10	21.10	0.0201	0.0201	0.0201
5	16QAM	1	12	21.12	21.02	21.24	0.0202	0.0197	0.0207
5	16QAM	1	24	20.95	20.88	20.87	0.0194	0.0191	0.0191
5	16QAM	12	0	20.10	20.03	19.83	0.0160	0.0157	0.0150
5	16QAM	12	7	20.12	20.06	19.87	0.0160	0.0158	0.0151
5	16QAM	12	13	20.02	20.03	20.04	0.0157	0.0157	0.0157
5	16QAM	25	0	19.81	19.97	19.77	0.0149	0.0155	0.0148
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	21.79	21.86	21.74	0.0236	0.0239	0.0233
3	QPSK	1	8	21.88	21.78	21.65	0.0240	0.0235	0.0228
3	QPSK	1	14	21.90	21.86	21.70	0.0242	0.0239	0.0231
3	QPSK	8	0	21.15	21.02	20.96	0.0203	0.0197	0.0195
3	QPSK	8	4	21.06	21.01	20.88	0.0199	0.0197	0.0191
3	QPSK	8	7	21.00	20.97	20.85	0.0196	0.0195	0.0190
3	QPSK	15	0	21.03	20.91	20.85	0.0198	0.0192	0.0190
3	16QAM	1	0	21.10	20.82	20.93	0.0201	0.0188	0.0193
3	16QAM	1	8	20.91	20.94	20.81	0.0192	0.0194	0.0188
3	16QAM	1	14	20.86	20.84	20.75	0.0190	0.0189	0.0185
3	16QAM	8	0	19.95	19.73	19.61	0.0154	0.0147	0.0143
3	16QAM	8	4	20.07	19.84	19.77	0.0158	0.0150	0.0148
3	16QAM	8	7	20.05	19.70	19.62	0.0158	0.0146	0.0143
3	16QAM	15	0	19.92	19.94	19.69	0.0153	0.0154	0.0145



Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	21.79	21.79	21.75	0.0236	0.0236	0.0233
1.4	QPSK	1	3	21.86	21.87	21.89	0.0239	0.0240	0.0241
1.4	QPSK	1	5	21.74	21.72	21.77	0.0233	0.0232	0.0234
1.4	QPSK	3	0	21.71	21.93	21.67	0.0231	0.0243	0.0229
1.4	QPSK	3	1	21.88	21.92	21.65	0.0240	0.0243	0.0228
1.4	QPSK	3	3	21.86	21.80	21.76	0.0239	0.0236	0.0234
1.4	QPSK	6	0	20.87	20.85	20.61	0.0191	0.0190	0.0179
1.4	16QAM	1	0	20.65	20.70	20.58	0.0181	0.0183	0.0178
1.4	16QAM	1	3	21.00	21.01	20.81	0.0196	0.0197	0.0188
1.4	16QAM	1	5	20.83	21.01	20.66	0.0189	0.0197	0.0182
1.4	16QAM	3	0	20.91	20.77	20.57	0.0192	0.0186	0.0178
1.4	16QAM	3	1	20.80	20.92	20.53	0.0187	0.0193	0.0176
1.4	16QAM	3	3	20.84	20.88	20.47	0.0189	0.0191	0.0174
1.4	16QAM	6	0	19.92	20.01	19.54	0.0153	0.0156	0.0140

LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	21.54	21.38	21.45	0.0205	0.0197	0.0200
20	QPSK	1	49	21.66	21.72	21.46	0.0210	0.0213	0.0201
20	QPSK	1	99	21.41	21.33	21.45	0.0199	0.0195	0.0200
20	QPSK	50	0	20.63	20.42	20.55	0.0166	0.0158	0.0163
20	QPSK	50	24	20.59	20.42	20.39	0.0164	0.0158	0.0157
20	QPSK	50	50	20.63	20.64	20.35	0.0166	0.0166	0.0156
20	QPSK	100	0	20.33	20.34	20.27	0.0155	0.0155	0.0153
20	16QAM	1	0	20.39	20.27	20.64	0.0157	0.0153	0.0166
20	16QAM	1	13	20.34	20.67	20.43	0.0155	0.0167	0.0158
20	16QAM	1	26	20.18	20.35	20.35	0.0150	0.0156	0.0156
20	16QAM	12	0	20.53	20.45	20.52	0.0162	0.0159	0.0162
20	16QAM	12	7	20.61	20.58	20.65	0.0165	0.0164	0.0167
20	16QAM	12	15	20.70	20.67	20.76	0.0169	0.0167	0.0171
20	16QAM	27	0	19.51	19.38	19.57	0.0128	0.0124	0.0130
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	21.26	21.55	21.39	0.0192	0.0205	0.0198
15	QPSK	1	37	21.20	21.44	21.42	0.0189	0.0200	0.0199
15	QPSK	1	74	21.15	21.15	21.32	0.0187	0.0187	0.0195
15	QPSK	36	0	20.19	20.28	20.24	0.0150	0.0153	0.0152
15	QPSK	36	20	20.11	20.23	20.21	0.0147	0.0151	0.0151
15	QPSK	36	39	20.45	20.21	20.22	0.0159	0.0151	0.0151
15	QPSK	75	0	20.23	20.25	20.25	0.0151	0.0152	0.0152



15	16QAM	1	0	20.22	20.35	20.29	0.0151	0.0156	0.0153
15	16QAM	1	13	20.25	20.40	20.35	0.0152	0.0157	0.0156
15	16QAM	1	26	20.35	20.31	20.27	0.0156	0.0154	0.0153
15	16QAM	12	0	20.38	20.68	20.45	0.0157	0.0168	0.0159
15	16QAM	12	7	20.42	20.70	20.68	0.0158	0.0169	0.0168
15	16QAM	12	15	20.40	20.36	20.52	0.0157	0.0156	0.0162
15	16QAM	27	0	19.22	19.26	19.32	0.0120	0.0121	0.0123
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	21.19	21.43	21.27	0.0189	0.0200	0.0192
10	QPSK	1	25	21.47	21.54	21.15	0.0201	0.0205	0.0187
10	QPSK	1	49	21.12	21.25	21.17	0.0186	0.0191	0.0188
10	QPSK	25	0	20.44	20.37	20.35	0.0159	0.0156	0.0156
10	QPSK	25	12	20.32	20.42	20.30	0.0155	0.0158	0.0154
10	QPSK	25	25	20.39	20.36	20.39	0.0157	0.0156	0.0157
10	QPSK	50	0	20.45	20.46	20.24	0.0159	0.0160	0.0152
10	16QAM	1	0	20.25	20.24	20.15	0.0152	0.0152	0.0149
10	16QAM	1	13	20.39	20.49	20.48	0.0157	0.0161	0.0160
10	16QAM	1	26	20.35	20.23	20.40	0.0156	0.0151	0.0157
10	16QAM	12	0	20.18	20.47	20.21	0.0150	0.0160	0.0151
10	16QAM	12	7	20.35	20.42	20.19	0.0156	0.0158	0.0150
10	16QAM	12	15	20.40	20.37	20.26	0.0157	0.0156	0.0152
10	16QAM	27	0	19.16	19.00	19.00	0.0118	0.0114	0.0114
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	21.14	21.12	21.16	0.0187	0.0186	0.0187
5	QPSK	1	12	21.36	21.36	21.34	0.0196	0.0196	0.0195
5	QPSK	1	24	21.12	21.14	21.16	0.0186	0.0187	0.0187
5	QPSK	12	0	20.23	20.34	20.29	0.0151	0.0155	0.0153
5	QPSK	12	7	20.39	20.30	20.37	0.0157	0.0154	0.0156
5	QPSK	12	13	20.26	20.34	20.41	0.0152	0.0155	0.0158
5	QPSK	25	0	20.16	20.25	20.28	0.0149	0.0152	0.0153
5	16QAM	1	0	20.11	20.45	20.12	0.0147	0.0159	0.0148
5	16QAM	1	12	20.32	20.47	20.38	0.0155	0.0160	0.0157
5	16QAM	1	24	20.11	20.20	20.37	0.0147	0.0150	0.0156
5	16QAM	12	0	18.98	19.29	18.96	0.0114	0.0122	0.0113
5	16QAM	12	7	19.20	19.27	19.18	0.0119	0.0121	0.0119
5	16QAM	12	13	19.14	19.17	19.30	0.0118	0.0119	0.0122
5	16QAM	25	0	19.28	19.13	19.41	0.0122	0.0117	0.0125
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	21.30	21.39	21.20	0.0194	0.0198	0.0189
3	QPSK	1	8	21.21	21.32	21.31	0.0190	0.0195	0.0194
3	QPSK	1	14	21.31	21.27	21.29	0.0194	0.0192	0.0193
3	QPSK	8	0	20.47	20.47	20.39	0.0160	0.0160	0.0157
3	QPSK	8	4	20.38	20.43	20.51	0.0157	0.0158	0.0161
3	QPSK	8	7	20.56	20.37	20.51	0.0163	0.0156	0.0161



3	QPSK	15	0	20.30	20.47	20.36	0.0154	0.0160	0.0156
3	16QAM	1	0	20.56	20.39	20.22	0.0163	0.0157	0.0151
3	16QAM	1	8	20.11	20.16	20.24	0.0147	0.0149	0.0152
3	16QAM	1	14	20.47	20.23	20.48	0.0160	0.0151	0.0160
3	16QAM	8	0	18.99	19.40	19.10	0.0114	0.0125	0.0117
3	16QAM	8	4	19.14	19.30	19.32	0.0118	0.0122	0.0123
3	16QAM	8	7	19.13	19.39	19.12	0.0117	0.0125	0.0117
3	16QAM	15	0	19.17	19.36	19.23	0.0119	0.0124	0.0120
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	21.35	21.32	21.48	0.0196	0.0195	0.0202
1.4	QPSK	1	3	21.33	21.42	21.67	0.0195	0.0199	0.0211
1.4	QPSK	1	5	21.27	21.35	21.51	0.0192	0.0196	0.0203
1.4	QPSK	3	0	21.38	21.50	21.54	0.0197	0.0203	0.0205
1.4	QPSK	3	1	21.32	21.54	21.70	0.0195	0.0205	0.0212
1.4	QPSK	3	3	21.24	21.54	21.59	0.0191	0.0205	0.0207
1.4	QPSK	6	0	20.22	20.48	20.38	0.0151	0.0160	0.0157
1.4	16QAM	1	0	20.25	20.12	20.21	0.0152	0.0148	0.0151
1.4	16QAM	1	3	20.49	20.48	20.37	0.0161	0.0160	0.0156
1.4	16QAM	1	5	20.32	20.17	20.12	0.0155	0.0149	0.0148
1.4	16QAM	3	0	20.28	20.51	20.61	0.0153	0.0161	0.0165
1.4	16QAM	3	1	20.34	20.60	20.39	0.0155	0.0165	0.0157
1.4	16QAM	3	3	20.28	20.71	20.41	0.0153	0.0169	0.0158
1.4	16QAM	6	0	19.18	19.51	19.11	0.0119	0.0128	0.0117

LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	22.11	22.20	22.13	0.0057	0.0058	0.0057
10	QPSK	1	25	22.26	22.31	22.17	0.0059	0.0060	0.0058
10	QPSK	1	49	22.05	22.24	21.96	0.0056	0.0059	0.0055
10	QPSK	25	0	20.95	21.10	21.06	0.0044	0.0045	0.0045
10	QPSK	25	12	21.00	21.07	20.97	0.0044	0.0045	0.0044
10	QPSK	25	25	21.09	21.02	21.03	0.0045	0.0044	0.0045
10	QPSK	50	0	21.01	21.08	21.03	0.0044	0.0045	0.0045
10	16QAM	1	0	20.84	20.93	20.91	0.0043	0.0044	0.0043
10	16QAM	1	13	21.22	20.99	20.95	0.0047	0.0044	0.0044
10	16QAM	1	26	20.87	20.95	20.72	0.0043	0.0044	0.0041
10	16QAM	12	0	21.05	21.01	20.77	0.0045	0.0044	0.0042
10	16QAM	12	7	21.07	21.02	21.06	0.0045	0.0044	0.0045
10	16QAM	12	15	21.02	21.05	21.09	0.0044	0.0045	0.0045
10	16QAM	27	0	19.90	20.11	19.94	0.0034	0.0036	0.0035
Channel				20425	20525	20625	ERP(W)		



Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	21.96	21.88	21.99	0.0055	0.0054	0.0056
5	QPSK	1	12	22.28	22.21	22.23	0.0059	0.0058	0.0059
5	QPSK	1	24	22.03	21.98	21.91	0.0056	0.0055	0.0055
5	QPSK	12	0	20.98	21.08	20.90	0.0044	0.0045	0.0043
5	QPSK	12	7	21.04	21.07	21.01	0.0045	0.0045	0.0044
5	QPSK	12	13	20.96	21.03	20.89	0.0044	0.0045	0.0043
5	QPSK	25	0	21.00	21.04	20.88	0.0044	0.0045	0.0043
5	16QAM	1	0	20.87	20.87	20.79	0.0043	0.0043	0.0042
5	16QAM	1	12	21.20	21.21	21.18	0.0046	0.0046	0.0046
5	16QAM	1	24	20.79	20.83	20.99	0.0042	0.0043	0.0044
5	16QAM	12	0	19.94	19.80	19.68	0.0035	0.0034	0.0033
5	16QAM	12	7	19.96	20.10	19.89	0.0035	0.0036	0.0034
5	16QAM	12	13	19.92	20.10	19.69	0.0035	0.0036	0.0033
5	16QAM	25	0	19.90	19.83	19.85	0.0034	0.0034	0.0034
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	21.71	21.80	21.68	0.0052	0.0053	0.0052
3	QPSK	1	8	21.87	21.95	21.83	0.0054	0.0055	0.0054
3	QPSK	1	14	21.82	22.01	22.05	0.0053	0.0056	0.0056
3	QPSK	8	0	21.04	21.02	20.90	0.0045	0.0044	0.0043
3	QPSK	8	4	21.10	21.12	20.87	0.0045	0.0045	0.0043
3	QPSK	8	7	21.08	20.97	20.87	0.0045	0.0044	0.0043
3	QPSK	15	0	20.99	20.93	20.87	0.0044	0.0044	0.0043
3	16QAM	1	0	20.61	20.66	20.77	0.0040	0.0041	0.0042
3	16QAM	1	8	20.88	20.90	20.76	0.0043	0.0043	0.0042
3	16QAM	1	14	20.91	20.95	20.58	0.0043	0.0044	0.0040
3	16QAM	8	0	19.68	19.93	20.12	0.0033	0.0035	0.0036
3	16QAM	8	4	19.69	19.95	20.06	0.0033	0.0035	0.0036
3	16QAM	8	7	19.70	19.98	19.89	0.0033	0.0035	0.0034
3	16QAM	15	0	19.82	20.11	19.70	0.0034	0.0036	0.0033
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	21.88	22.05	22.05	0.0054	0.0056	0.0056
1.4	QPSK	1	3	22.04	22.05	22.19	0.0056	0.0056	0.0058
1.4	QPSK	1	5	21.99	21.97	21.97	0.0056	0.0055	0.0055
1.4	QPSK	3	0	22.01	22.06	21.93	0.0056	0.0056	0.0055
1.4	QPSK	3	1	22.21	21.97	22.03	0.0058	0.0055	0.0056
1.4	QPSK	3	3	22.09	22.00	21.74	0.0057	0.0056	0.0052
1.4	QPSK	6	0	20.92	20.94	20.82	0.0043	0.0044	0.0042
1.4	16QAM	1	0	20.99	20.79	20.61	0.0044	0.0042	0.0040
1.4	16QAM	1	3	21.00	21.00	20.80	0.0044	0.0044	0.0042
1.4	16QAM	1	5	21.03	20.90	20.76	0.0045	0.0043	0.0042
1.4	16QAM	3	0	20.87	21.07	20.86	0.0043	0.0045	0.0043
1.4	16QAM	3	1	20.87	21.04	20.89	0.0043	0.0045	0.0043
1.4	16QAM	3	3	20.93	21.06	20.85	0.0044	0.0045	0.0043



1.4	16QAM	6	0	19.82	19.91	19.79	0.0034	0.0034	0.0033
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LTE Band 7:

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	22.61	22.75	22.45	0.0400	0.0413	0.0385
20	QPSK	1	49	22.85	22.91	22.68	0.0423	0.0429	0.0406
20	QPSK	1	99	22.80	22.71	22.42	0.0418	0.0409	0.0383
20	QPSK	50	0	21.84	21.87	21.62	0.0335	0.0337	0.0318
20	QPSK	50	24	21.88	21.89	21.54	0.0338	0.0339	0.0313
20	QPSK	50	50	21.88	21.75	21.60	0.0338	0.0328	0.0317
20	QPSK	100	0	21.43	21.58	21.44	0.0305	0.0316	0.0305
20	16QAM	1	0	21.42	21.51	21.49	0.0304	0.0310	0.0309
20	16QAM	1	13	21.37	21.58	21.31	0.0301	0.0316	0.0296
20	16QAM	1	26	21.78	21.80	21.43	0.0330	0.0332	0.0305
20	16QAM	12	0	21.80	21.81	21.62	0.0332	0.0333	0.0318
20	16QAM	12	7	21.74	21.84	21.60	0.0327	0.0335	0.0317
20	16QAM	12	15	21.78	21.59	21.55	0.0330	0.0316	0.0313
20	16QAM	27	0	20.90	20.64	20.51	0.0270	0.0254	0.0247
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.56	22.70	22.50	0.0395	0.0408	0.0390
15	QPSK	1	37	22.79	22.89	22.80	0.0417	0.0427	0.0418
15	QPSK	1	74	22.81	22.84	22.73	0.0419	0.0422	0.0411
15	QPSK	36	0	21.92	21.70	21.59	0.0341	0.0324	0.0316
15	QPSK	36	20	21.88	21.74	21.54	0.0338	0.0327	0.0313
15	QPSK	36	39	21.92	21.76	21.76	0.0341	0.0329	0.0329
15	QPSK	75	0	21.40	21.56	21.66	0.0303	0.0314	0.0321
15	16QAM	1	0	21.66	21.86	21.71	0.0321	0.0337	0.0325
15	16QAM	1	13	21.90	21.67	21.43	0.0340	0.0322	0.0305
15	16QAM	1	26	21.50	21.80	21.42	0.0310	0.0332	0.0304
15	16QAM	12	0	21.83	21.90	21.57	0.0334	0.0340	0.0315
15	16QAM	12	7	21.84	21.79	21.51	0.0335	0.0331	0.0310
15	16QAM	12	15	21.87	21.87	21.76	0.0337	0.0337	0.0329
15	16QAM	27	0	20.82	20.96	20.62	0.0265	0.0274	0.0253
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.16	22.20	22.12	0.0361	0.0364	0.0357
10	QPSK	1	25	22.38	22.44	22.20	0.0379	0.0385	0.0364
10	QPSK	1	49	22.04	22.30	22.00	0.0351	0.0372	0.0348
10	QPSK	25	0	21.36	21.33	21.03	0.0300	0.0298	0.0278
10	QPSK	25	12	21.33	21.40	21.26	0.0298	0.0303	0.0293
10	QPSK	25	25	21.45	21.44	21.30	0.0306	0.0305	0.0296



10	QPSK	50	0	21.42	21.50	21.21	0.0304	0.0310	0.0290
10	16QAM	1	0	21.23	21.62	21.31	0.0291	0.0318	0.0296
10	16QAM	1	13	21.21	21.22	21.27	0.0290	0.0290	0.0294
10	16QAM	1	26	21.21	21.47	21.30	0.0290	0.0308	0.0296
10	16QAM	12	0	21.53	21.24	21.21	0.0312	0.0292	0.0290
10	16QAM	12	7	21.26	21.38	21.13	0.0293	0.0301	0.0284
10	16QAM	12	15	21.29	21.48	21.05	0.0295	0.0308	0.0279
10	16QAM	27	0	20.19	20.35	20.07	0.0229	0.0238	0.0223
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.31	22.25	22.24	0.0373	0.0368	0.0367
5	QPSK	1	12	22.61	22.60	22.34	0.0400	0.0399	0.0376
5	QPSK	1	24	22.22	22.32	22.25	0.0366	0.0374	0.0368
5	QPSK	12	0	21.47	21.69	21.23	0.0308	0.0324	0.0291
5	QPSK	12	7	21.52	21.49	21.27	0.0311	0.0309	0.0294
5	QPSK	12	13	21.50	21.37	21.22	0.0310	0.0301	0.0290
5	QPSK	25	0	21.47	21.43	21.19	0.0308	0.0305	0.0288
5	16QAM	1	0	21.30	21.30	21.36	0.0296	0.0296	0.0300
5	16QAM	1	12	21.14	21.57	21.58	0.0285	0.0315	0.0316
5	16QAM	1	24	21.41	21.22	21.11	0.0303	0.0290	0.0283
5	16QAM	12	0	20.62	20.24	20.25	0.0253	0.0232	0.0232
5	16QAM	12	7	20.64	20.31	20.34	0.0254	0.0236	0.0237
5	16QAM	12	13	20.58	20.60	20.25	0.0251	0.0252	0.0232
5	16QAM	25	0	20.49	20.44	20.33	0.0245	0.0243	0.0237

LTE Band 12:

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	22.41	22.42	22.36	0.0065	0.0065	0.0064
10	QPSK	1	25	22.60	22.79	22.72	0.0068	0.0071	0.0070
10	QPSK	1	49	22.39	22.35	22.32	0.0064	0.0064	0.0063
10	QPSK	25	0	21.35	21.46	21.51	0.0051	0.0052	0.0053
10	QPSK	25	12	21.50	21.55	21.48	0.0052	0.0053	0.0052
10	QPSK	25	25	21.44	21.41	21.54	0.0052	0.0051	0.0053
10	QPSK	50	0	21.43	21.52	21.48	0.0052	0.0053	0.0052
10	16QAM	1	0	21.10	21.01	21.15	0.0048	0.0047	0.0048
10	16QAM	1	13	21.04	21.06	21.06	0.0047	0.0047	0.0047
10	16QAM	1	26	21.41	21.42	21.43	0.0051	0.0052	0.0052
10	16QAM	12	0	21.44	21.24	21.24	0.0052	0.0049	0.0049
10	16QAM	12	7	21.32	21.40	21.45	0.0050	0.0051	0.0052
10	16QAM	12	15	21.45	21.45	21.47	0.0052	0.0052	0.0052
10	16QAM	27	0	20.44	20.43	20.37	0.0041	0.0041	0.0040
Channel				23035	23095	23155	ERP(W)		



Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	22.31	22.21	22.32	0.0063	0.0062	0.0063
5	QPSK	1	12	22.59	22.68	22.62	0.0067	0.0069	0.0068
5	QPSK	1	24	22.46	22.25	22.29	0.0065	0.0062	0.0063
5	QPSK	12	0	21.32	21.48	21.42	0.0050	0.0052	0.0052
5	QPSK	12	7	21.47	21.42	21.47	0.0052	0.0052	0.0052
5	QPSK	12	13	21.43	21.46	21.45	0.0052	0.0052	0.0052
5	QPSK	25	0	21.42	21.49	21.44	0.0052	0.0052	0.0052
5	16QAM	1	0	21.67	21.19	21.21	0.0055	0.0049	0.0049
5	16QAM	1	12	21.62	21.23	21.24	0.0054	0.0049	0.0049
5	16QAM	1	24	21.20	21.25	21.40	0.0049	0.0050	0.0051
5	16QAM	12	0	20.30	20.35	20.47	0.0040	0.0040	0.0041
5	16QAM	12	7	20.40	20.46	20.50	0.0041	0.0041	0.0042
5	16QAM	12	13	20.46	20.52	20.55	0.0041	0.0042	0.0042
5	16QAM	25	0	20.20	20.64	20.68	0.0039	0.0043	0.0043
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	22.06	22.28	22.30	0.0060	0.0063	0.0063
3	QPSK	1	8	22.26	22.31	22.47	0.0063	0.0063	0.0066
3	QPSK	1	14	22.37	22.40	22.06	0.0064	0.0065	0.0060
3	QPSK	8	0	21.49	21.41	21.37	0.0052	0.0051	0.0051
3	QPSK	8	4	21.43	21.35	21.42	0.0052	0.0051	0.0052
3	QPSK	8	7	21.47	21.36	21.31	0.0052	0.0051	0.0050
3	QPSK	15	0	21.35	21.29	21.45	0.0051	0.0050	0.0052
3	16QAM	1	0	20.92	20.93	21.42	0.0046	0.0046	0.0052
3	16QAM	1	8	20.96	21.42	21.33	0.0046	0.0052	0.0050
3	16QAM	1	14	21.23	21.12	20.92	0.0049	0.0048	0.0046
3	16QAM	8	0	20.13	20.12	20.18	0.0038	0.0038	0.0039
3	16QAM	8	4	20.35	20.36	20.48	0.0040	0.0040	0.0041
3	16QAM	8	7	20.44	20.16	20.39	0.0041	0.0039	0.0041
3	16QAM	15	0	20.18	20.43	20.14	0.0039	0.0041	0.0038
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	22.43	22.41	22.37	0.0065	0.0065	0.0064
1.4	QPSK	1	3	22.51	22.47	22.46	0.0066	0.0066	0.0065
1.4	QPSK	1	5	22.38	22.41	22.47	0.0064	0.0065	0.0066
1.4	QPSK	3	0	22.55	22.61	22.52	0.0067	0.0068	0.0066
1.4	QPSK	3	1	22.52	22.58	22.40	0.0066	0.0067	0.0065
1.4	QPSK	3	3	22.48	22.64	22.45	0.0066	0.0068	0.0065
1.4	QPSK	6	0	21.40	21.37	21.44	0.0051	0.0051	0.0052
1.4	16QAM	1	0	21.47	21.12	21.51	0.0052	0.0048	0.0053
1.4	16QAM	1	3	21.20	21.22	21.59	0.0049	0.0049	0.0054
1.4	16QAM	1	5	21.42	21.16	21.13	0.0052	0.0049	0.0048
1.4	16QAM	3	0	21.42	21.49	21.43	0.0052	0.0052	0.0052
1.4	16QAM	3	1	21.53	21.46	21.39	0.0053	0.0052	0.0051
1.4	16QAM	3	3	21.47	21.43	21.47	0.0052	0.0052	0.0052



1.4	16QAM	6	0	20.25	20.39	20.15	0.0039	0.0041	0.0038
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LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	22.18	22.45	22.27	0.0256	0.0272	0.0261
20	QPSK	1	49	22.30	22.49	22.41	0.0263	0.0275	0.0270
20	QPSK	1	99	22.14	22.35	22.37	0.0254	0.0266	0.0267
20	QPSK	50	0	21.12	21.43	21.13	0.0200	0.0215	0.0201
20	QPSK	50	24	21.08	21.12	21.04	0.0199	0.0200	0.0197
20	QPSK	50	50	21.00	21.01	20.99	0.0195	0.0195	0.0195
20	QPSK	100	0	21.07	21.19	21.11	0.0198	0.0204	0.0200
20	16QAM	1	0	20.95	21.00	20.80	0.0193	0.0195	0.0186
20	16QAM	1	49	21.00	21.07	21.01	0.0195	0.0198	0.0195
20	16QAM	1	99	21.07	21.21	21.18	0.0198	0.0205	0.0203
20	16QAM	50	0	21.15	21.40	21.08	0.0202	0.0214	0.0199
20	16QAM	50	24	20.94	21.23	21.16	0.0192	0.0206	0.0202
20	16QAM	50	50	21.36	21.24	21.06	0.0212	0.0206	0.0198
20	16QAM	100	0	20.06	20.21	20.09	0.0157	0.0163	0.0158
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	21.97	22.21	22.10	0.0244	0.0258	0.0251
15	QPSK	1	37	21.86	22.14	22.24	0.0238	0.0254	0.0259
15	QPSK	1	74	21.94	22.07	21.88	0.0242	0.0249	0.0239
15	QPSK	36	0	20.86	21.29	21.25	0.0189	0.0208	0.0207
15	QPSK	36	20	21.01	20.98	21.02	0.0195	0.0194	0.0196
15	QPSK	36	39	20.88	20.96	20.95	0.0190	0.0193	0.0193
15	QPSK	75	0	21.09	21.22	21.16	0.0199	0.0205	0.0202
15	16QAM	1	0	21.05	20.97	20.96	0.0197	0.0194	0.0193
15	16QAM	1	37	20.70	20.87	21.01	0.0182	0.0189	0.0195
15	16QAM	1	74	20.84	20.81	20.90	0.0188	0.0187	0.0191
15	16QAM	36	0	20.94	21.25	21.10	0.0192	0.0207	0.0200
15	16QAM	36	20	20.88	21.22	21.10	0.0190	0.0205	0.0200
15	16QAM	36	39	20.94	21.06	21.13	0.0192	0.0198	0.0201
15	16QAM	75	0	19.86	20.24	20.25	0.0150	0.0164	0.0164
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	21.90	21.91	22.06	0.0240	0.0240	0.0249
10	QPSK	1	25	21.97	22.11	22.06	0.0244	0.0252	0.0249
10	QPSK	1	49	21.79	21.90	21.77	0.0234	0.0240	0.0233
10	QPSK	25	0	21.06	21.28	21.18	0.0198	0.0208	0.0203
10	QPSK	25	12	21.09	21.23	21.09	0.0199	0.0206	0.0199
10	QPSK	25	25	21.13	20.99	21.01	0.0201	0.0195	0.0195



10	QPSK	50	0	20.96	21.04	21.18	0.0193	0.0197	0.0203
10	16QAM	1	0	20.87	21.21	20.91	0.0189	0.0205	0.0191
10	16QAM	1	25	21.14	20.86	20.94	0.0201	0.0189	0.0192
10	16QAM	1	49	20.93	20.96	20.78	0.0192	0.0193	0.0185
10	16QAM	25	0	20.91	21.17	21.11	0.0191	0.0203	0.0200
10	16QAM	25	12	21.25	21.09	21.09	0.0207	0.0199	0.0199
10	16QAM	25	25	21.04	20.91	21.13	0.0197	0.0191	0.0201
10	16QAM	50	0	20.08	20.12	20.04	0.0158	0.0159	0.0156
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.00	22.12	22.17	0.0245	0.0252	0.0255
5	QPSK	1	12	22.02	21.95	22.21	0.0247	0.0243	0.0258
5	QPSK	1	24	21.81	21.95	21.87	0.0235	0.0243	0.0238
5	QPSK	12	0	21.18	21.24	21.21	0.0203	0.0206	0.0205
5	QPSK	12	7	20.95	21.15	21.27	0.0193	0.0202	0.0207
5	QPSK	12	13	21.08	20.99	21.12	0.0199	0.0195	0.0200
5	QPSK	25	0	21.02	21.08	21.24	0.0196	0.0199	0.0206
5	16QAM	1	0	21.15	21.15	20.87	0.0202	0.0202	0.0189
5	16QAM	1	12	21.01	21.12	20.83	0.0195	0.0200	0.0187
5	16QAM	1	24	20.75	21.21	21.09	0.0184	0.0205	0.0199
5	16QAM	12	0	19.90	20.20	20.18	0.0151	0.0162	0.0161
5	16QAM	12	7	19.95	20.04	20.04	0.0153	0.0156	0.0156
5	16QAM	12	13	20.05	20.08	20.18	0.0157	0.0158	0.0161
5	16QAM	25	0	20.27	19.98	20.20	0.0165	0.0154	0.0162
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	21.99	21.94	21.97	0.0245	0.0242	0.0244
3	QPSK	1	8	21.87	22.13	22.07	0.0238	0.0253	0.0249
3	QPSK	1	14	22.21	22.18	22.04	0.0258	0.0256	0.0248
3	QPSK	8	0	21.01	21.07	21.23	0.0195	0.0198	0.0206
3	QPSK	8	4	21.03	21.03	21.16	0.0196	0.0196	0.0202
3	QPSK	8	7	20.93	21.28	21.03	0.0192	0.0208	0.0196
3	QPSK	15	0	21.02	21.17	21.08	0.0196	0.0203	0.0199
3	16QAM	1	0	20.66	21.04	20.71	0.0180	0.0197	0.0182
3	16QAM	1	8	21.03	21.01	20.59	0.0196	0.0195	0.0177
3	16QAM	1	14	20.79	21.00	21.02	0.0186	0.0195	0.0196
3	16QAM	8	0	20.21	20.12	20.08	0.0163	0.0159	0.0158
3	16QAM	8	4	20.21	20.11	19.93	0.0163	0.0159	0.0152
3	16QAM	8	7	20.13	20.25	19.79	0.0160	0.0164	0.0148
3	16QAM	15	0	20.09	19.76	19.86	0.0158	0.0147	0.0150
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	21.98	22.03	22.06	0.0244	0.0247	0.0249
1.4	QPSK	1	3	22.04	22.16	22.08	0.0248	0.0255	0.0250
1.4	QPSK	1	5	22.11	22.17	22.39	0.0252	0.0255	0.0269
1.4	QPSK	3	0	22.00	22.17	22.25	0.0245	0.0255	0.0260
1.4	QPSK	3	1	22.03	22.37	22.36	0.0247	0.0267	0.0267



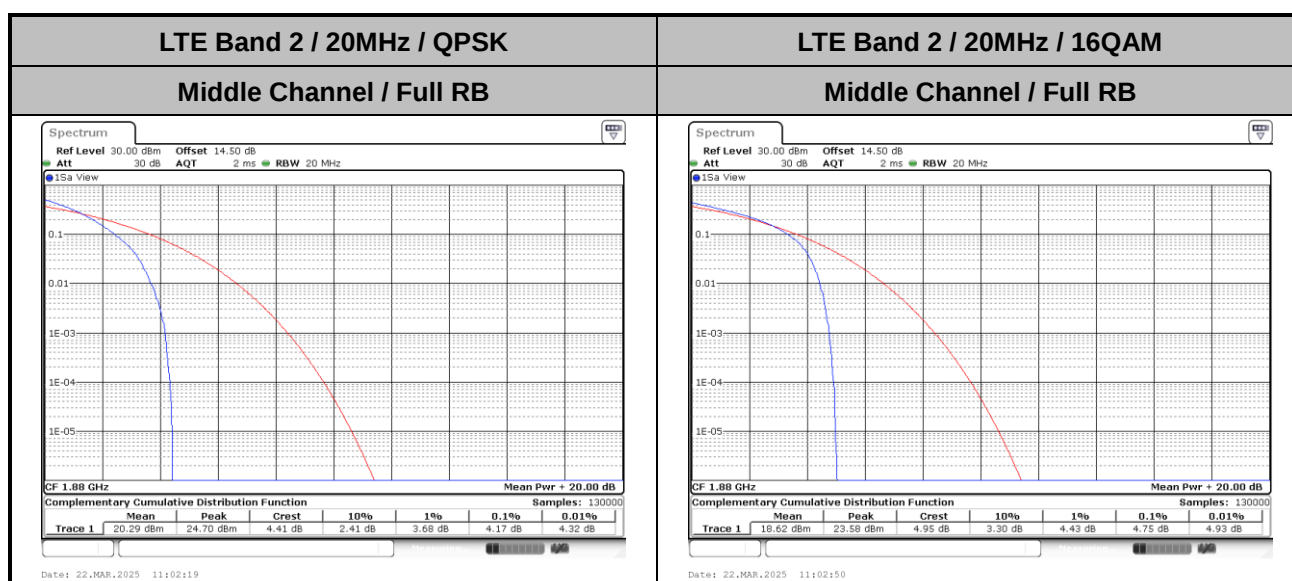
1.4	QPSK	3	3	22.12	22.25	22.29	0.0252	0.0260	0.0262
1.4	QPSK	6	0	20.96	21.16	21.11	0.0193	0.0202	0.0200
1.4	16QAM	1	0	20.69	20.79	20.82	0.0182	0.0186	0.0187
1.4	16QAM	1	3	21.09	20.79	21.03	0.0199	0.0186	0.0196
1.4	16QAM	1	5	20.83	21.02	20.97	0.0187	0.0196	0.0194
1.4	16QAM	3	0	21.06	20.91	21.12	0.0198	0.0191	0.0200
1.4	16QAM	3	1	20.95	21.03	20.89	0.0193	0.0196	0.0190
1.4	16QAM	3	3	21.12	20.93	21.11	0.0200	0.0192	0.0200
1.4	16QAM	6	0	20.10	19.91	20.13	0.0158	0.0152	0.0160



LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.17	4.75	-	PASS





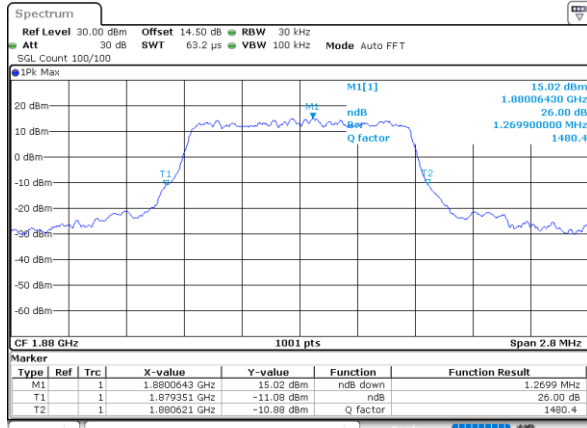
26dB Bandwidth

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
Middle CH	1.27	1.25	3.02	2.96	4.89	4.98	9.79	5.87	14.21	5.90	19.02	6.43



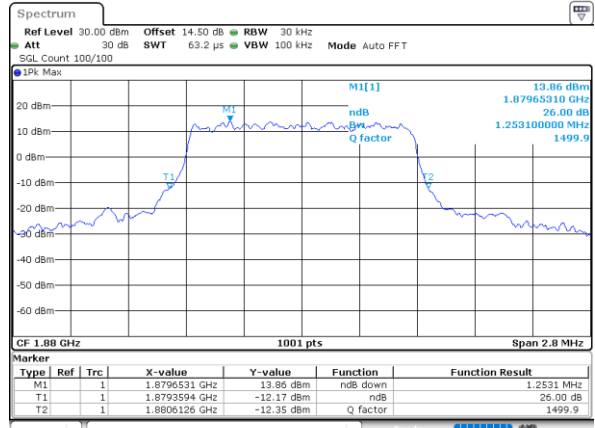
LTE Band 2

Middle Channel / 1.4MHz / QPSK



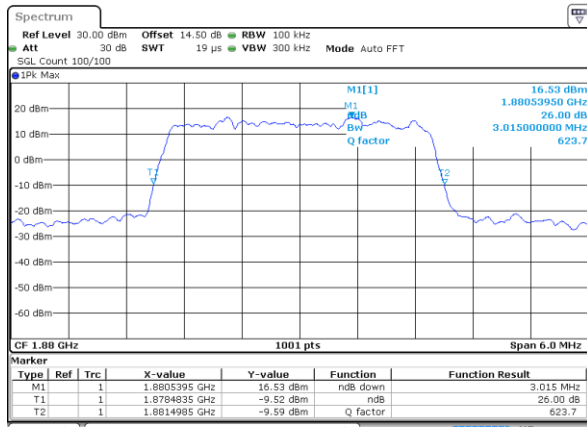
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Middle Channel / 1.4MHz / 16QAM



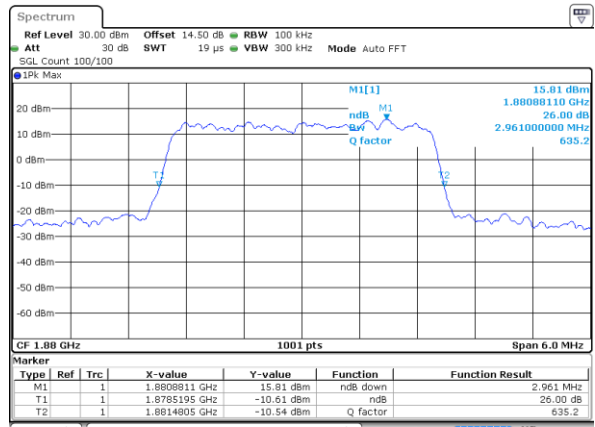
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Middle Channel / 3MHz / QPSK



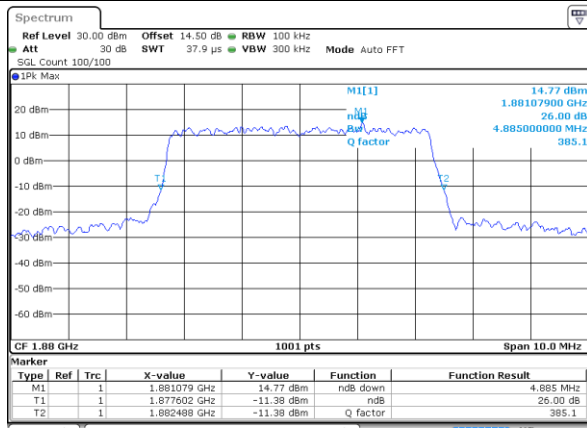
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Middle Channel / 3MHz / 16QAM



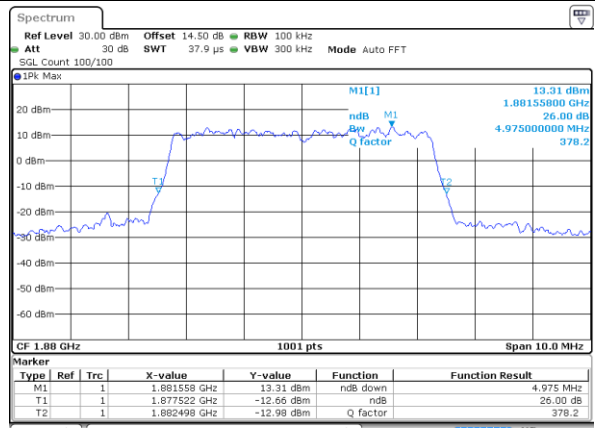
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Middle Channel / 5MHz / QPSK



Date: 21 MAR 2025 14:28:57

Middle Channel / 5MHz / 16QAM

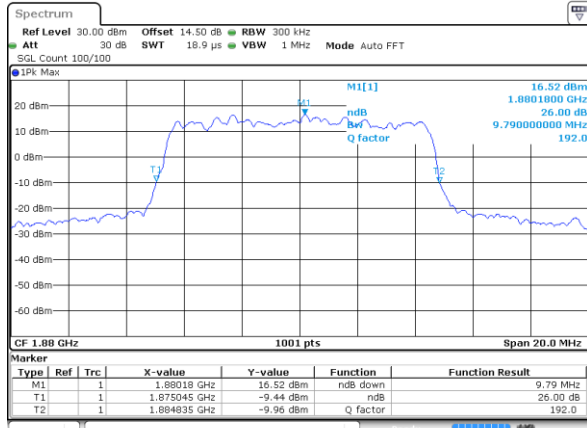


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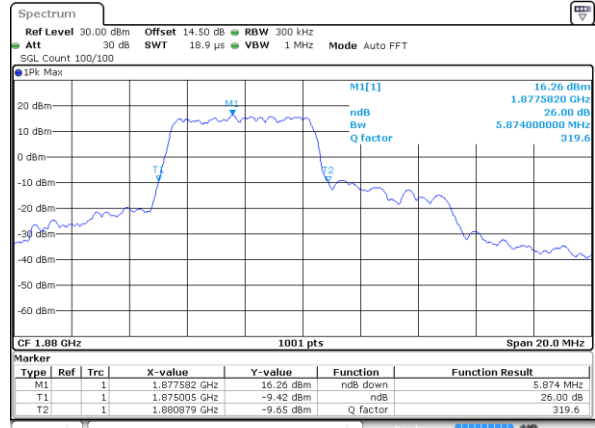
LTE Band 2

Middle Channel / 10MHz / QPSK



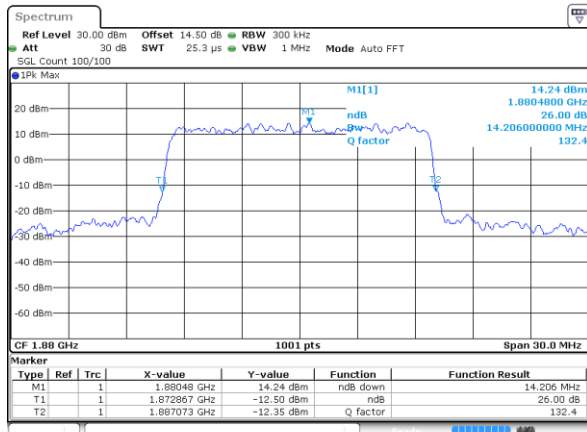
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Middle Channel / 10MHz / 16QAM



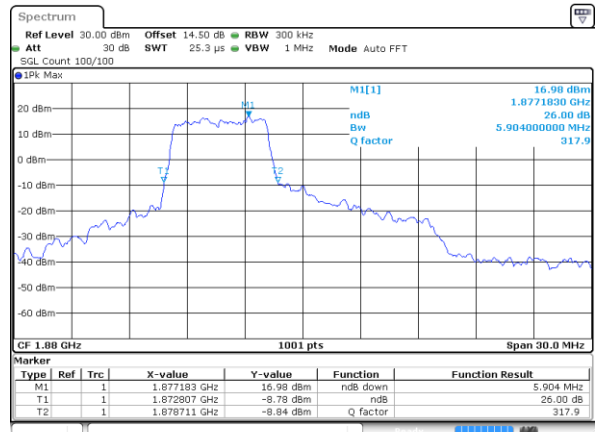
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Middle Channel / 15MHz / QPSK



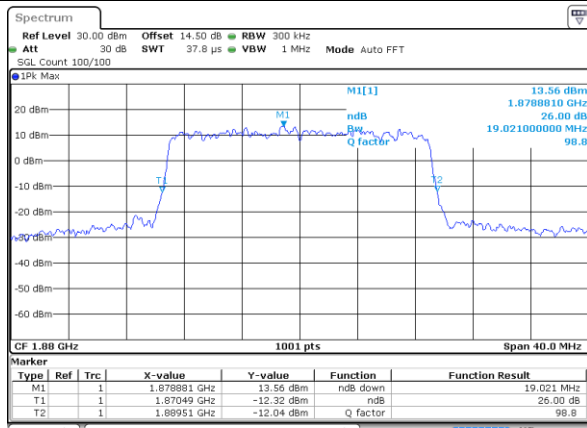
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Middle Channel / 15MHz / 16QAM



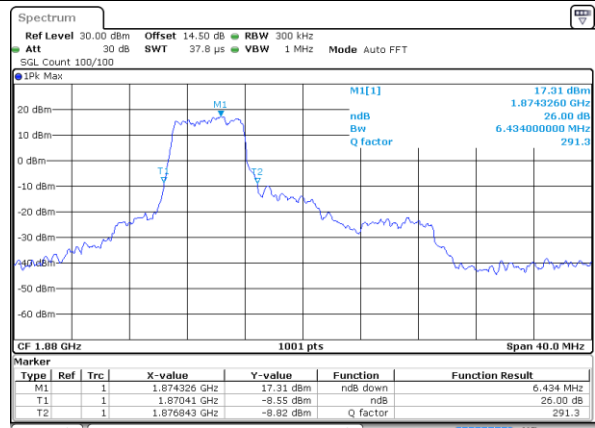
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Middle Channel / 20MHz / QPSK



Date: 21 MAR 2025 14:36:45

Middle Channel / 20MHz / 16QAM



Date: 22 MAR 2025 13:18:25



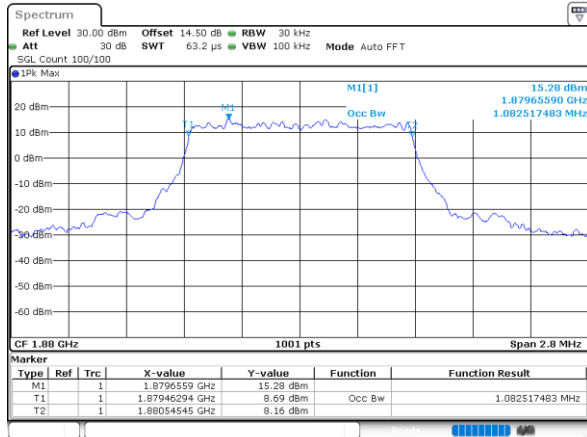
Occupied Bandwidth

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
Middle CH	1.08	1.09	2.71	2.73	4.50	4.50	8.95	5.01	13.37	5.03	17.86	5.23

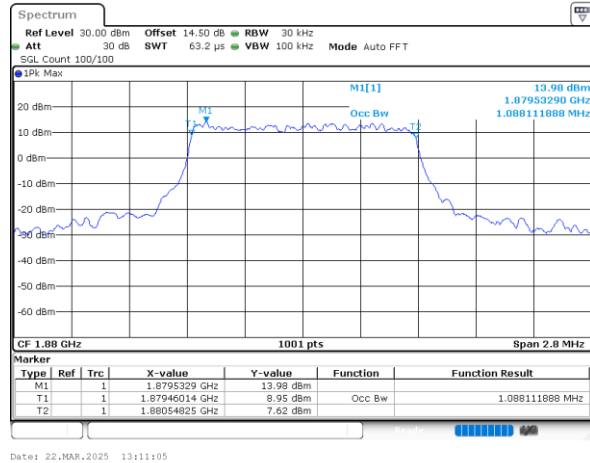


LTE Band 2

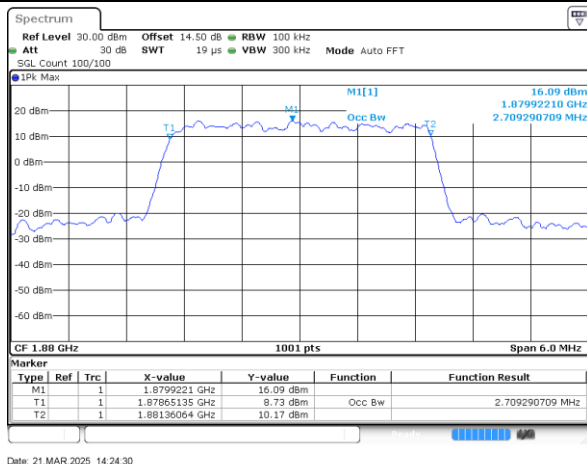
Middle Channel / 1.4MHz / QPSK



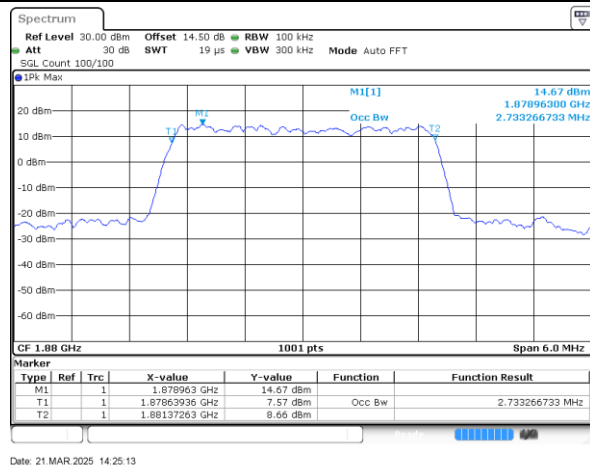
Middle Channel / 1.4MHz / 16QAM



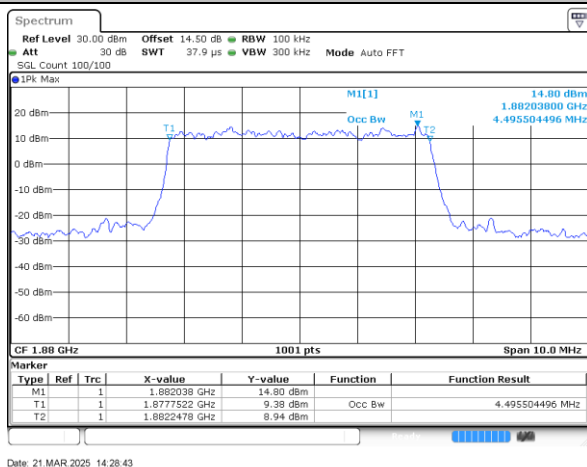
Middle Channel / 3MHz / QPSK



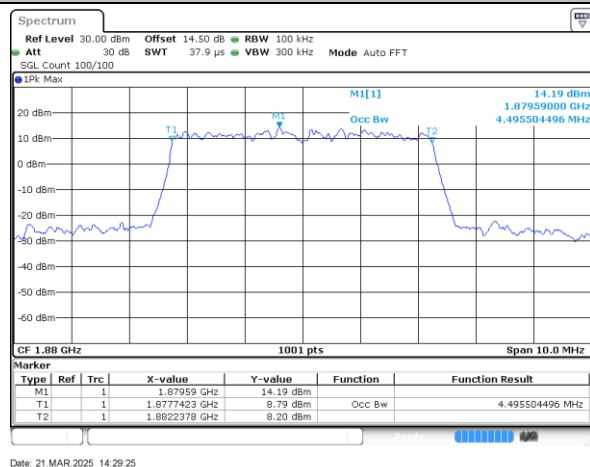
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



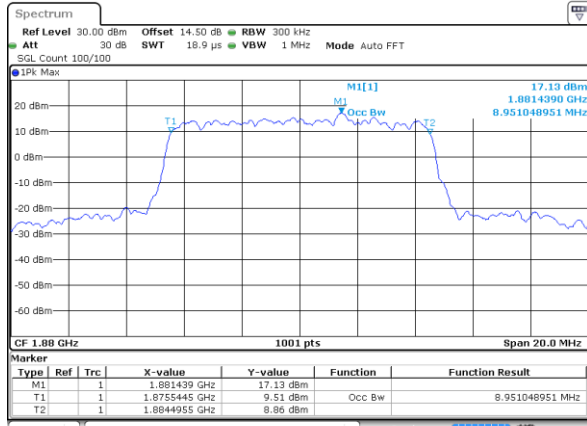
Middle Channel / 5MHz / 16QAM





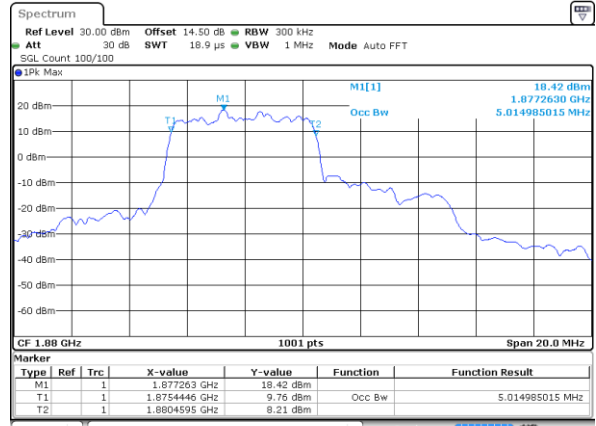
LTE Band 2

Middle Channel / 10MHz / QPSK



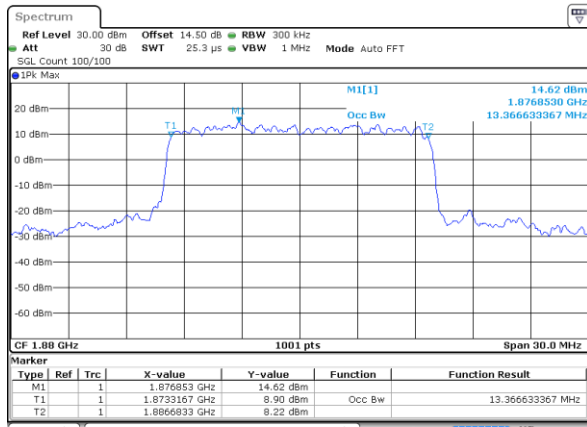
Date: 21 MAR 2025 14:32:14

Middle Channel / 10MHz / 16QAM



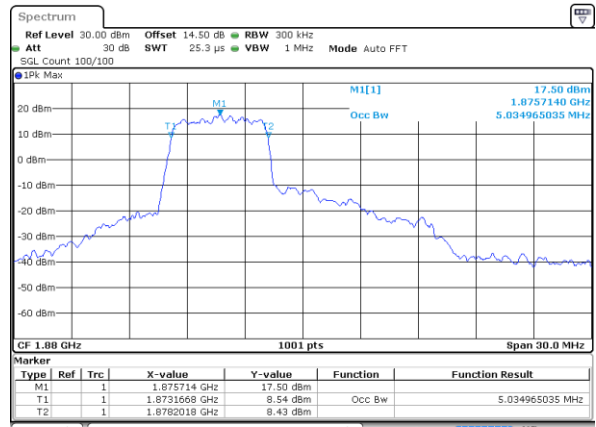
Date: 22 MAR 2025 13:08:29

Middle Channel / 15MHz / QPSK



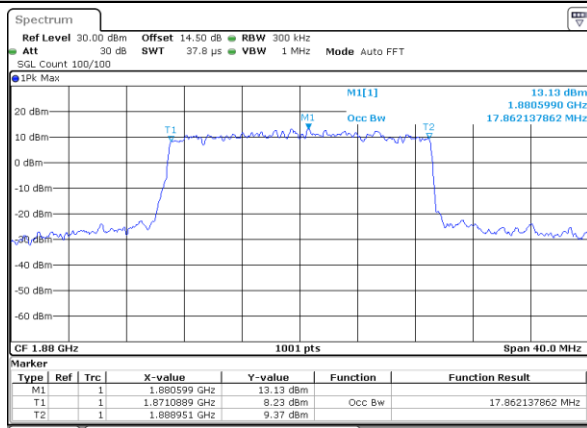
Date: 21 MAR 2025 14:34:22

Middle Channel / 15MHz / 16QAM



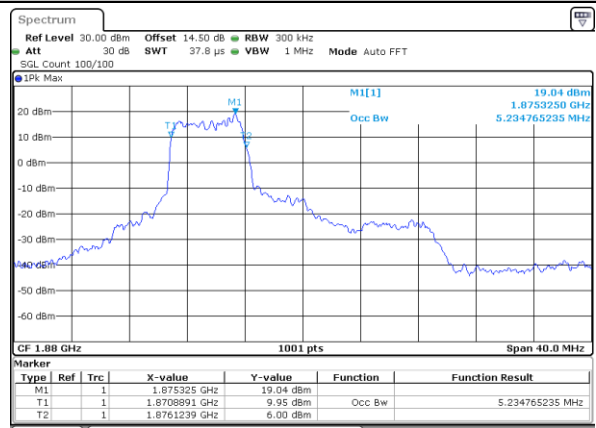
Date: 22 MAR 2025 13:12:43

Middle Channel / 20MHz / QPSK



Date: 21 MAR 2025 14:36:31

Middle Channel / 20MHz / 16QAM



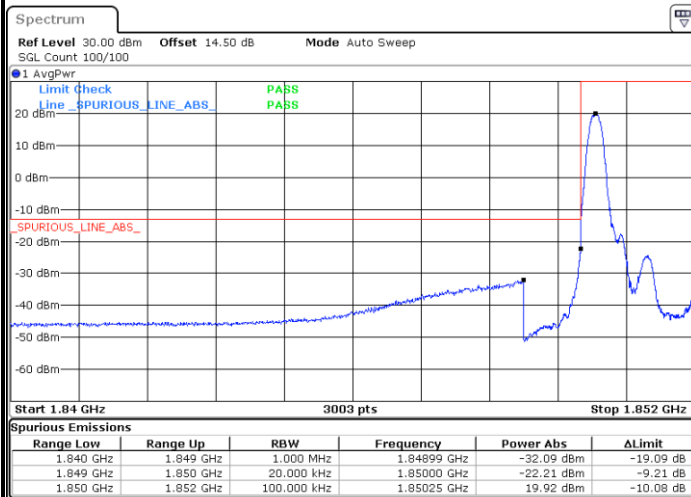
Date: 22 MAR 2025 13:17:25



Conducted Band Edge

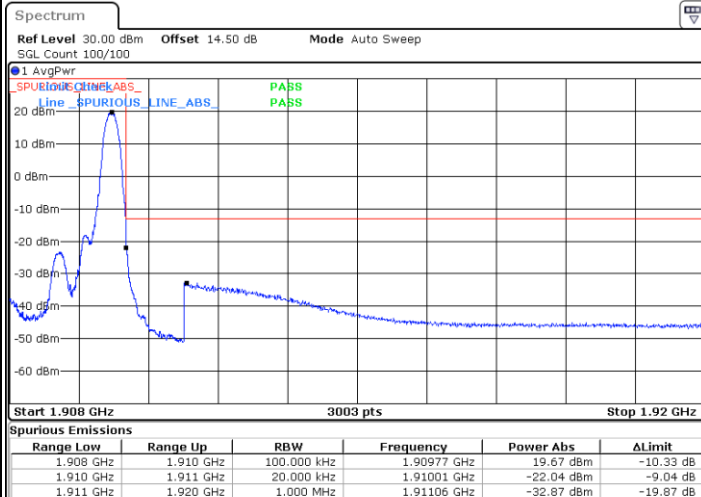
LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



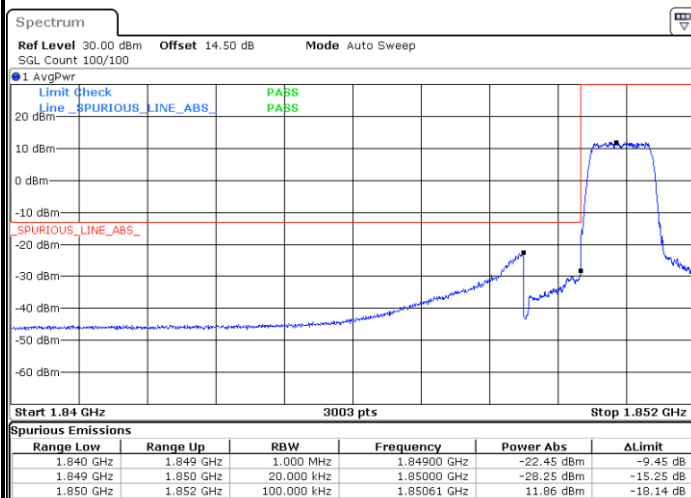
Date: 22.MAR.2025 13:07:37

Highest Band Edge / 1RB



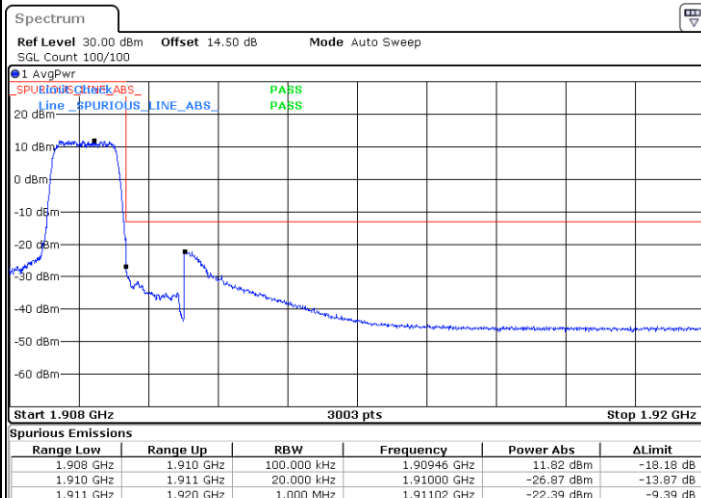
Date: 22.MAR.2025 13:16:40

Lowest Band Edge / Full RB



Date: 22.MAR.2025 13:09:49

Highest Band Edge / Full RB

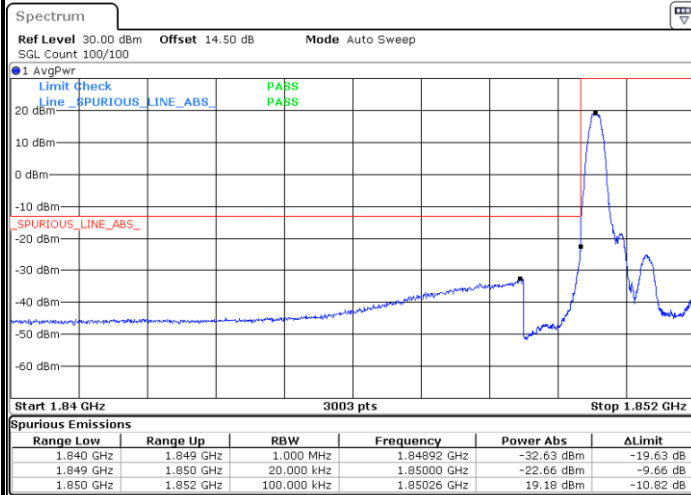


Date: 22.MAR.2025 13:19:31

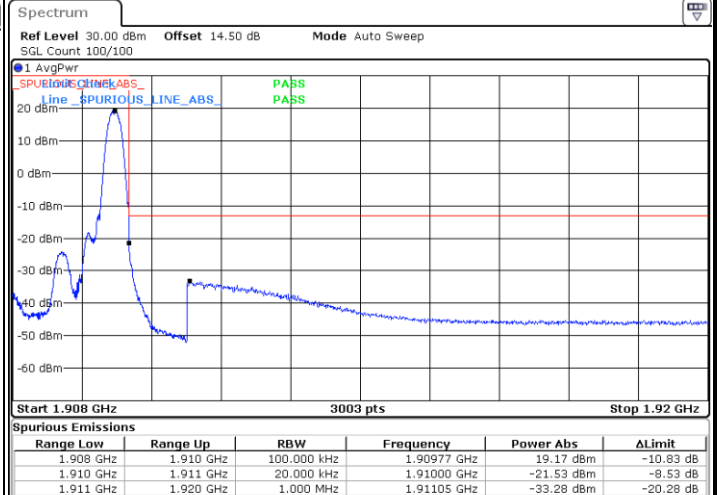


LTE Band 2 / 1.4MHz / 16QAM

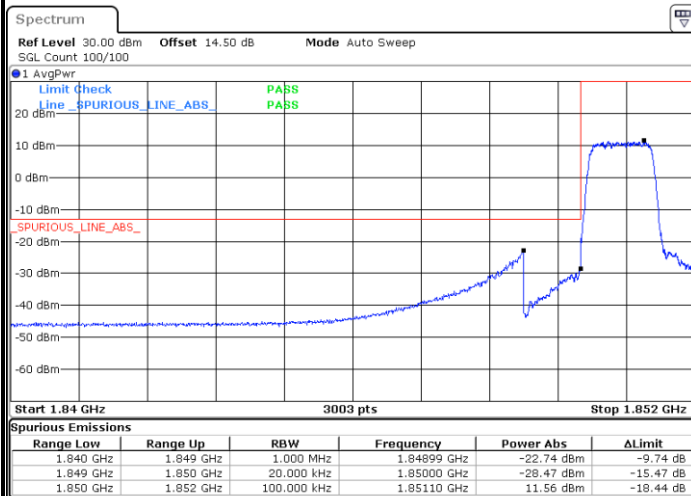
Lowest Band Edge / 1 RB



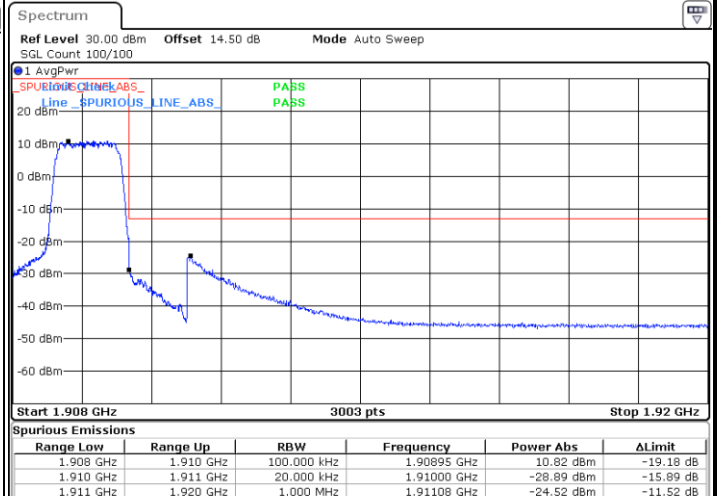
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



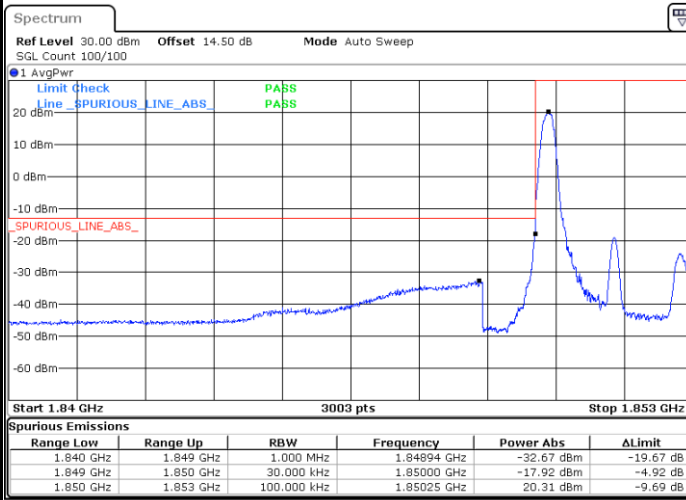
Highest Band Edge / Full RB



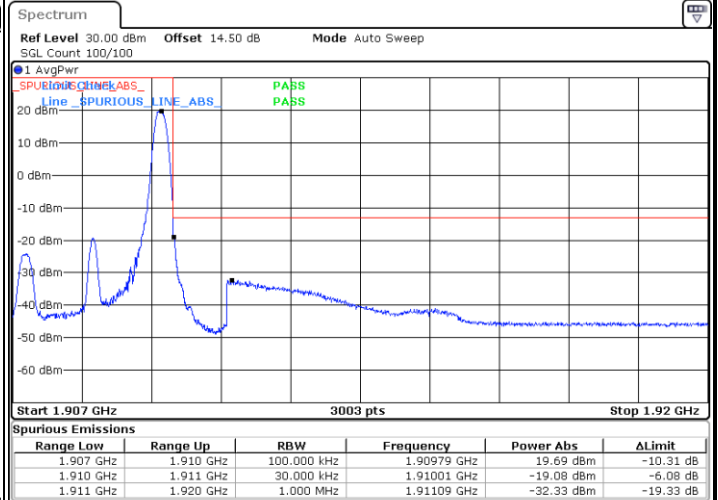


LTE Band 2 / 3MHz / QPSK

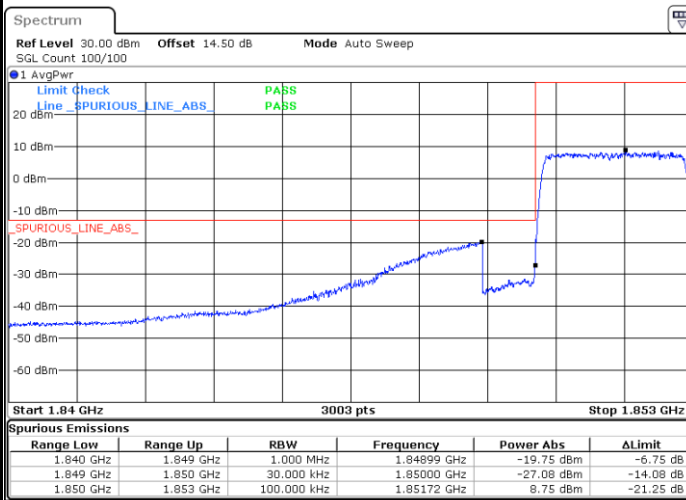
Lowest Band Edge / 1RB



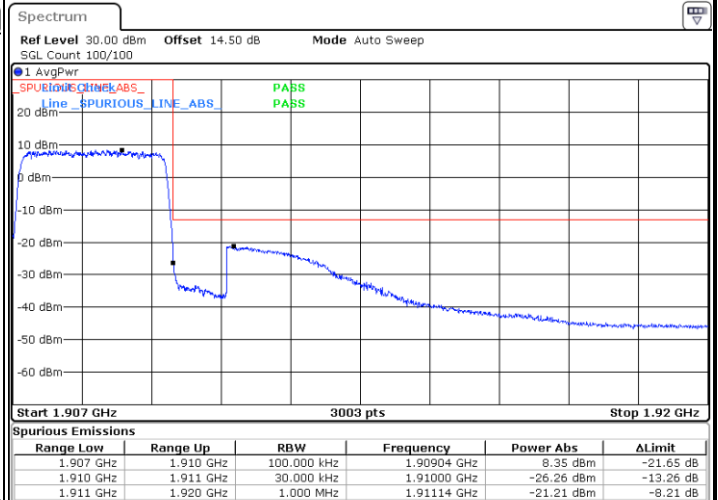
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



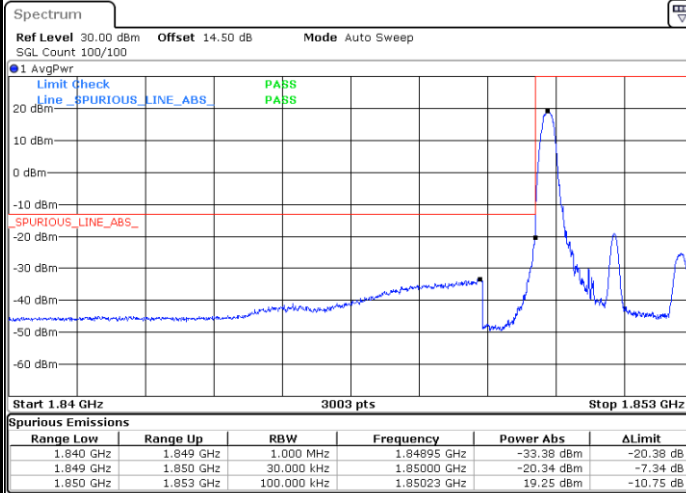
Highest Band Edge / Full RB



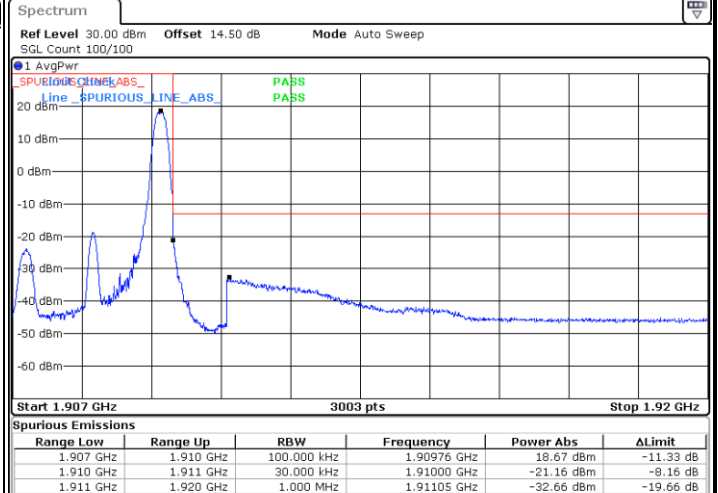


LTE Band 2 / 3MHz / 16QAM

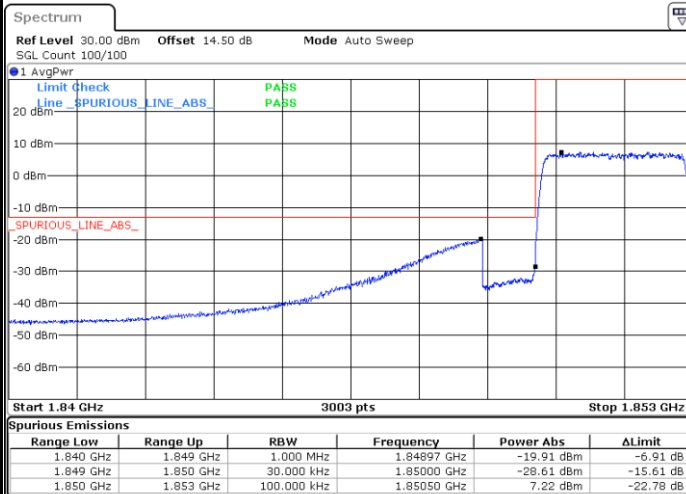
Lowest Band Edge / 1 RB



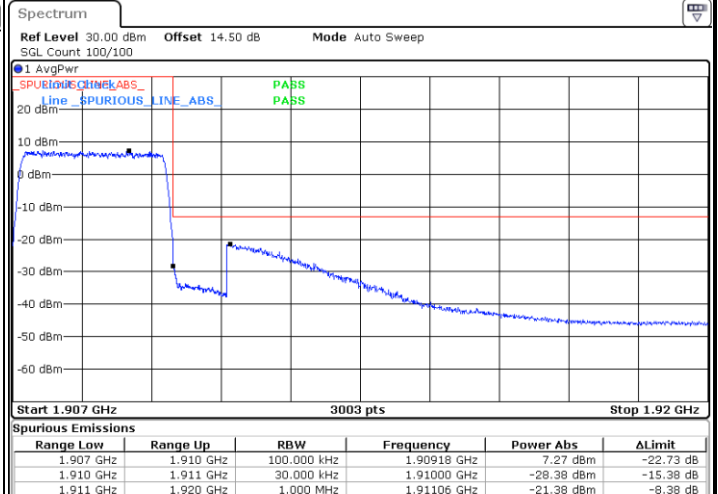
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



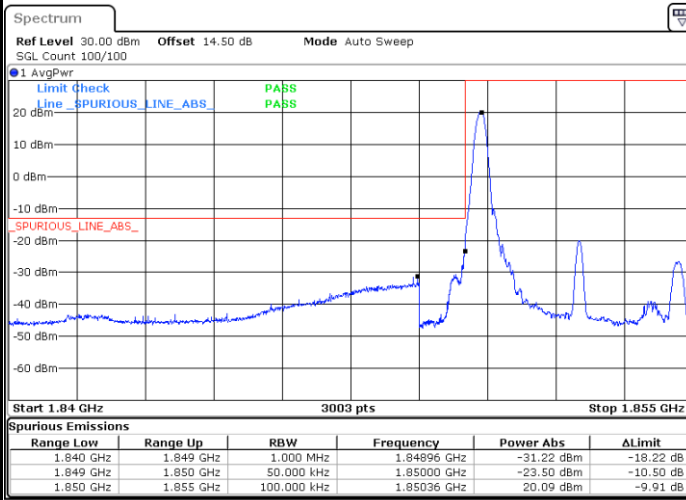
Highest Band Edge / Full RB





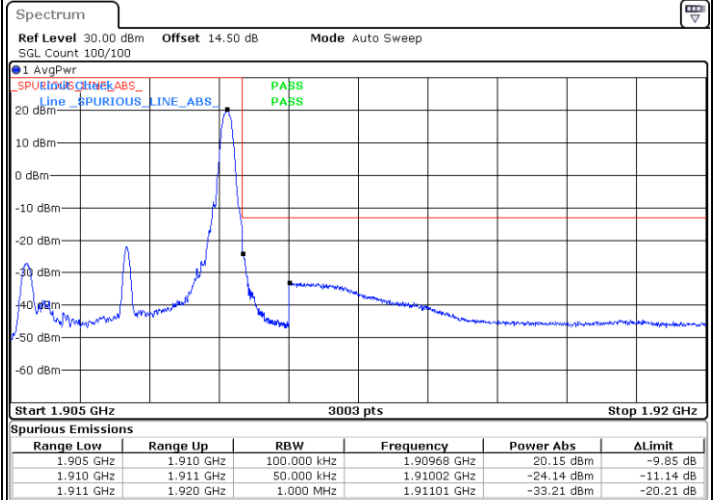
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1RB



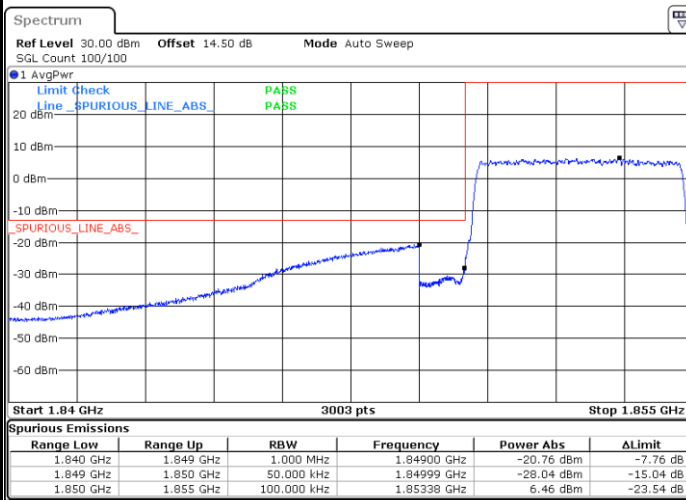
Date: 22 MAR 2025 13:02:38

Highest Band Edge / 1RB



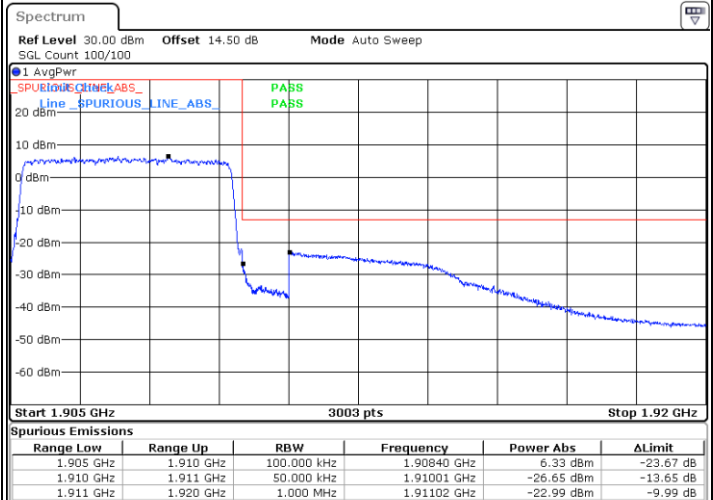
Date: 22 MAR 2025 13:06:06

Lowest Band Edge / Full RB



Date: 21 MAR 2025 14:27:33

Highest Band Edge / Full RB

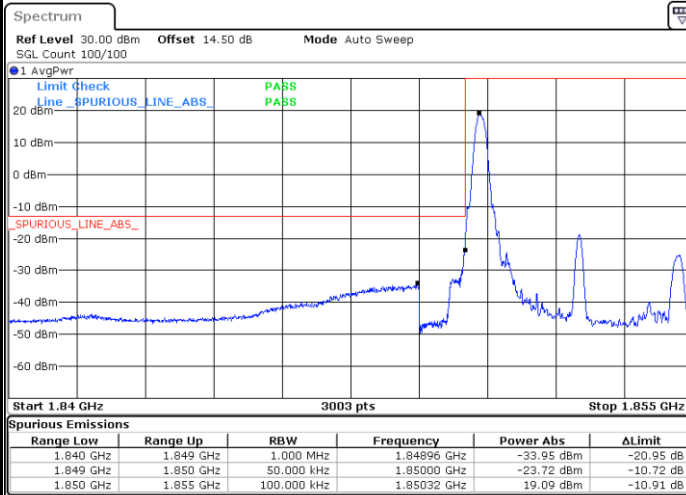


Date: 21 MAR 2025 14:30:19

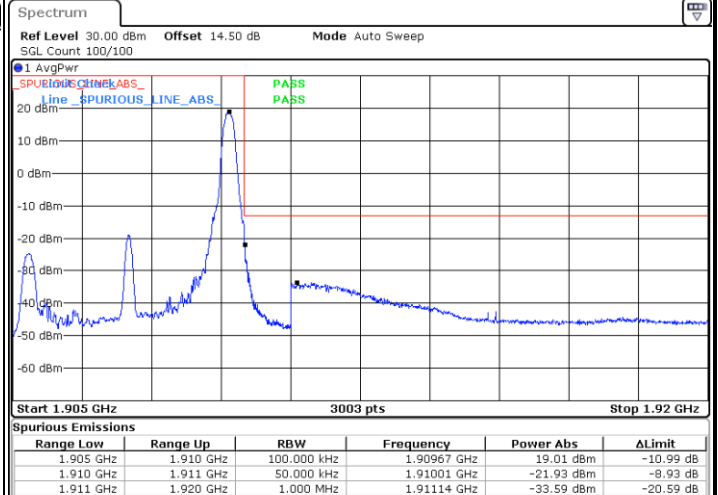


LTE Band 2 / 5MHz / 16QAM

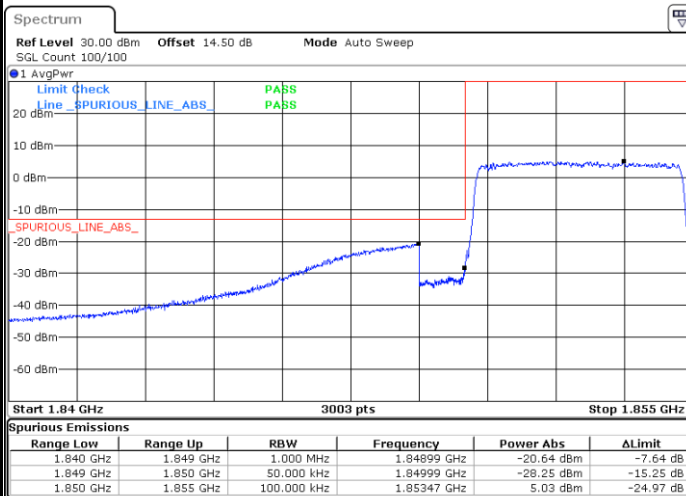
Lowest Band Edge / 1 RB



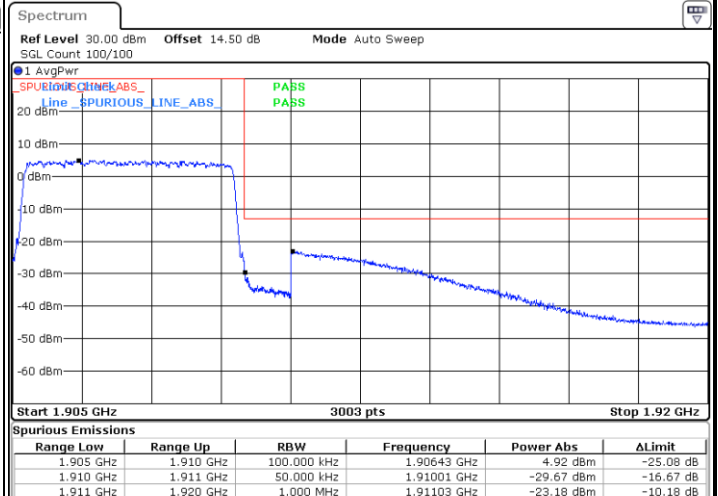
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



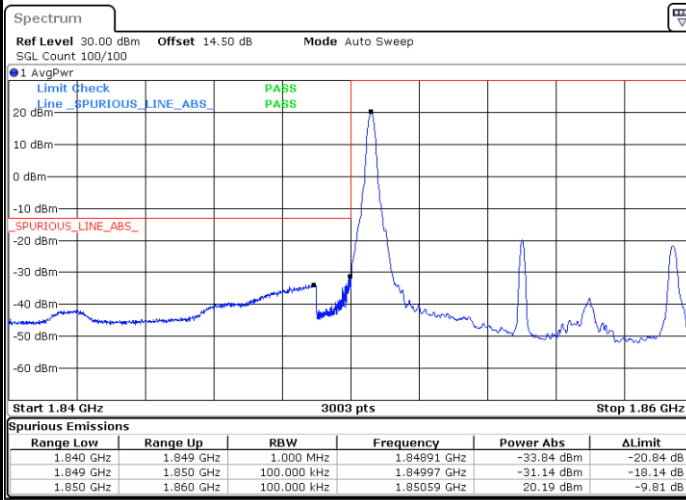
Highest Band Edge / Full RB





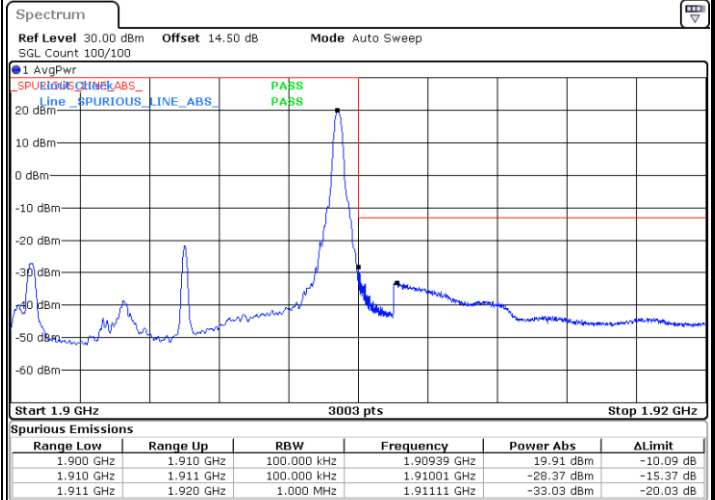
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1RB



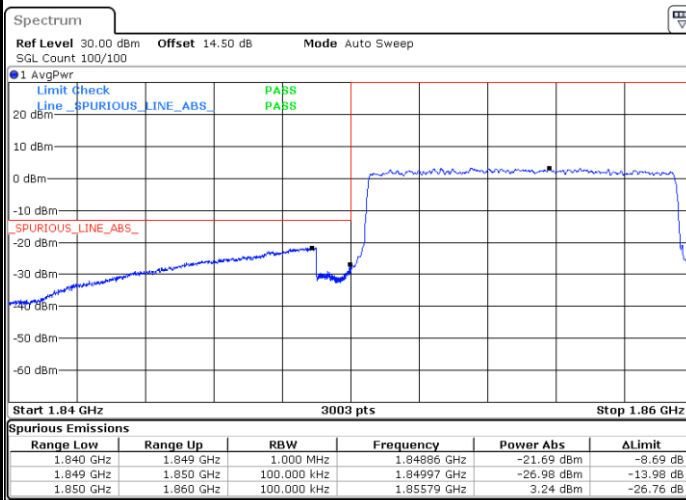
Date: 22 MAR 2025 12:38:20

Highest Band Edge / 1RB



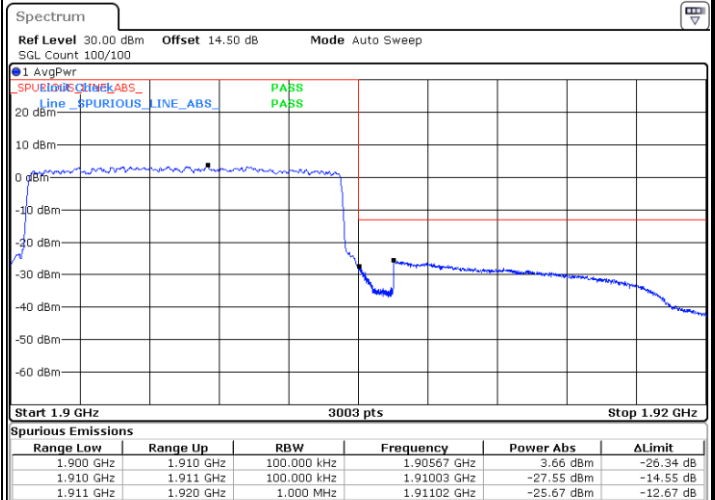
Date: 22 MAR 2025 12:41:42

Lowest Band Edge / Full RB



Date: 21 MAR 2025 14:31:45

Highest Band Edge / Full RB

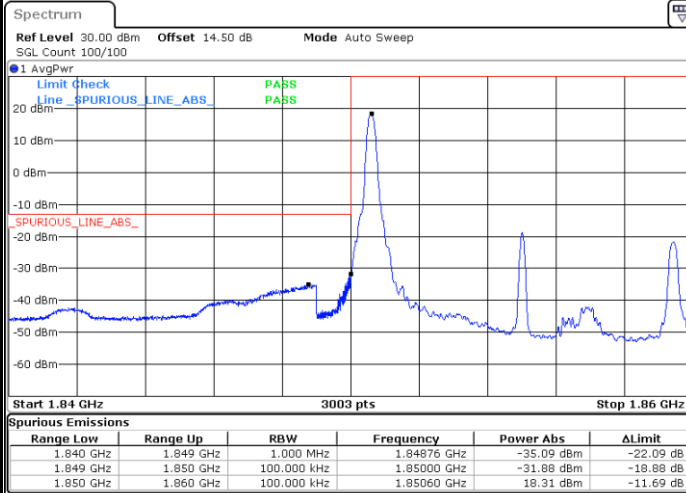


Date: 21 MAR 2025 14:33:08



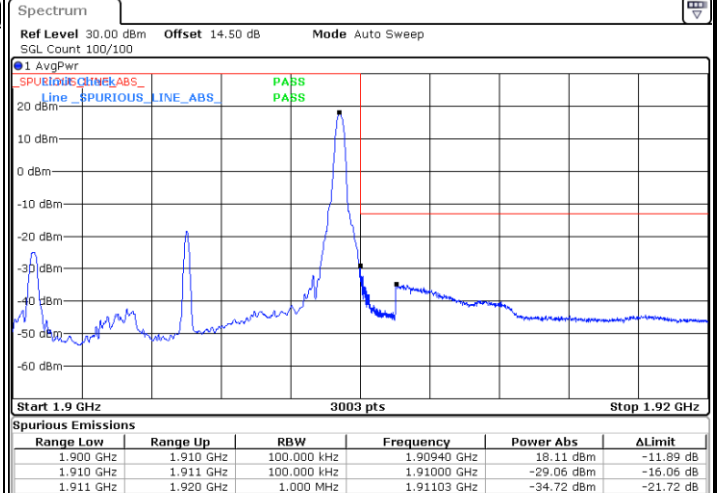
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



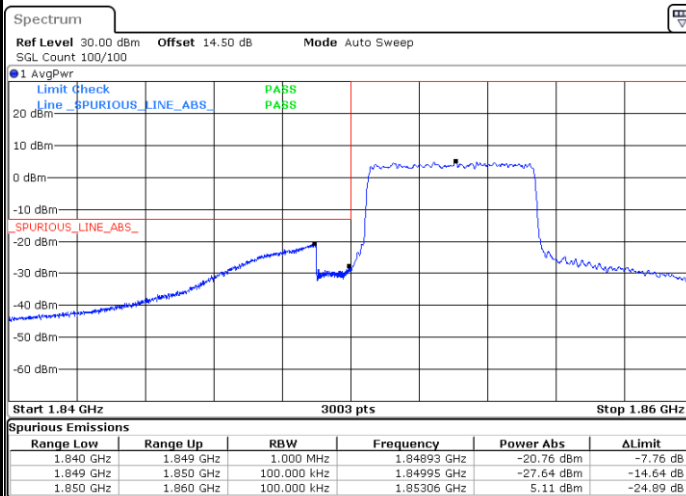
Date: 22 MAR 2025 12:38:58

Highest Band Edge / 1 RB



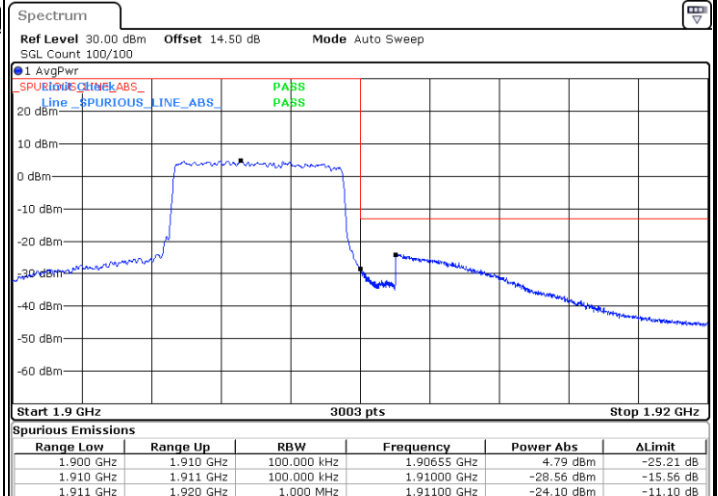
Date: 22 MAR 2025 12:42:20

Lowest Band Edge / Full RB



Date: 22 MAR 2025 13:08:04

Highest Band Edge / Full RB

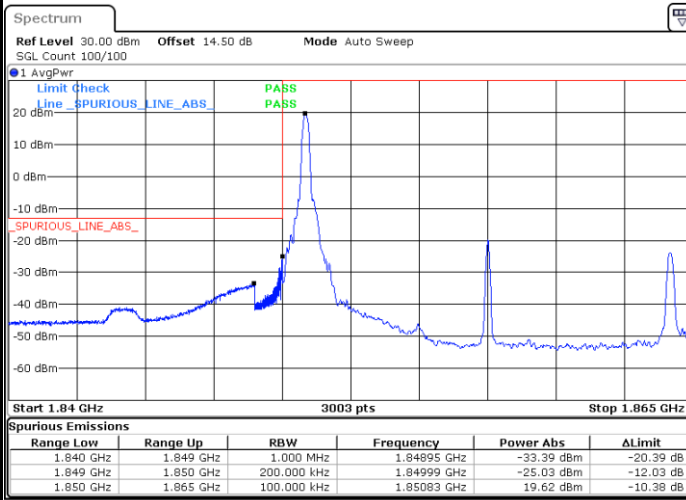


Date: 22 MAR 2025 13:10:03



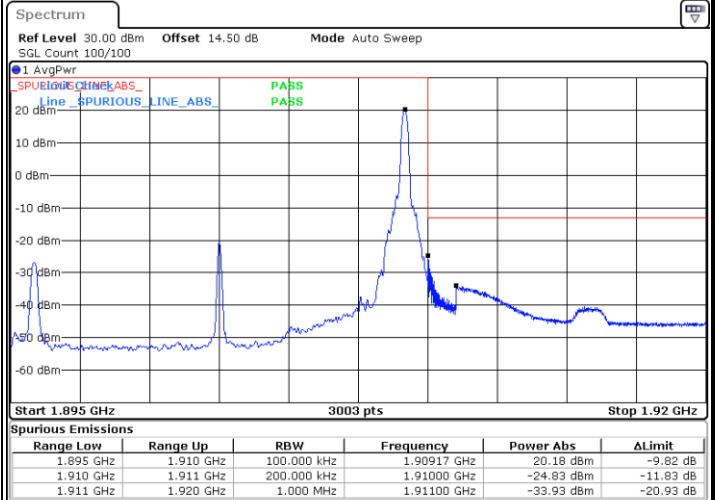
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1RB



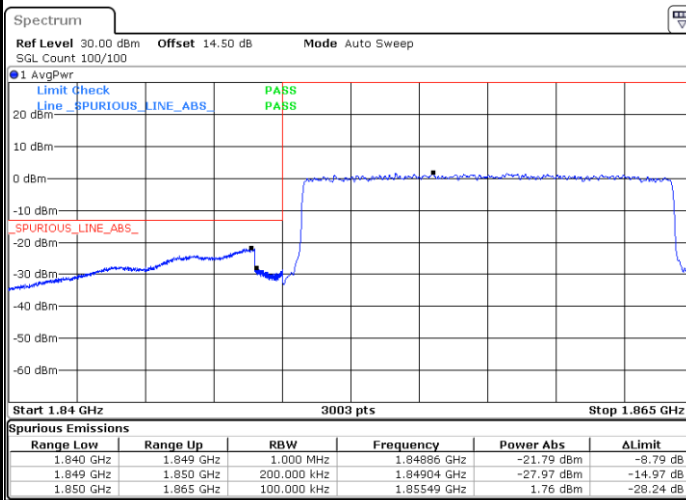
Date: 22 MAR 2025 12:44:06

Highest Band Edge / 1RB



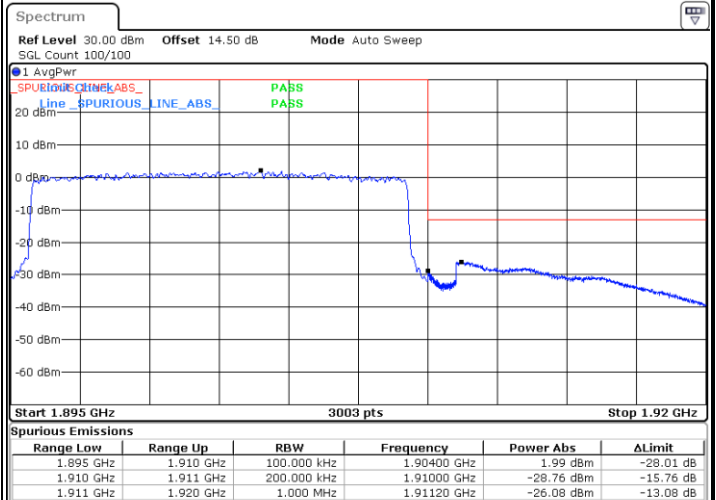
Date: 22 MAR 2025 12:47:28

Lowest Band Edge / Full RB



Date: 21 MAR 2025 14:33:53

Highest Band Edge / Full RB

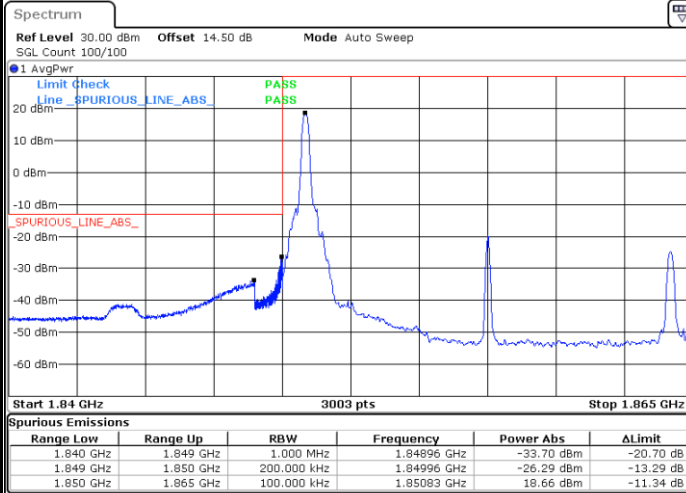


Date: 21 MAR 2025 14:35:16

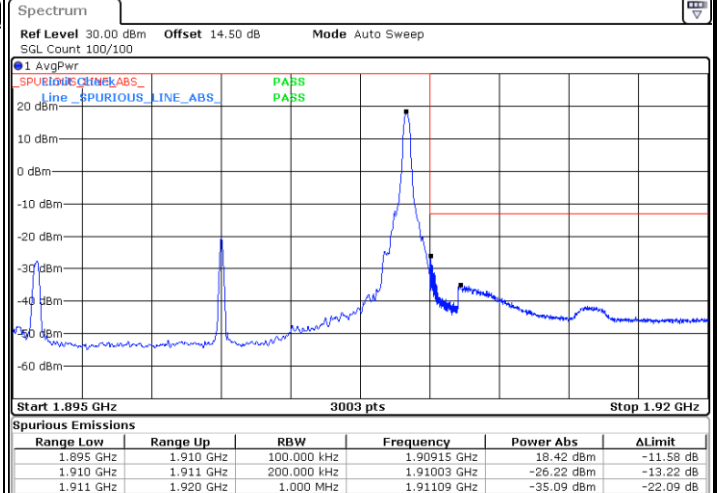


LTE Band 2 / 15MHz / 16QAM

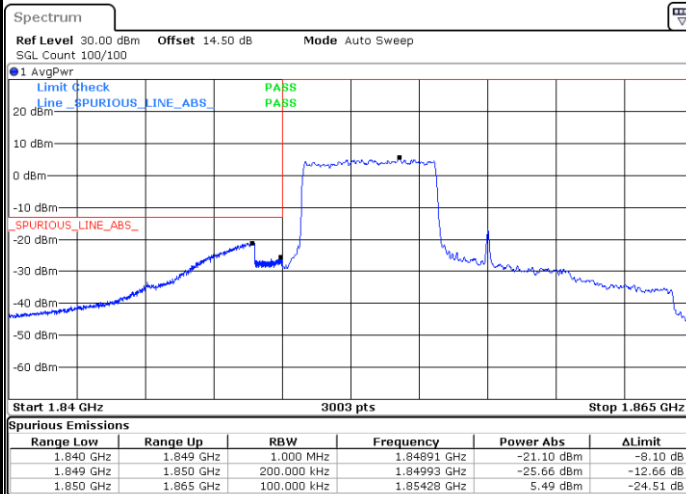
Lowest Band Edge / 1 RB



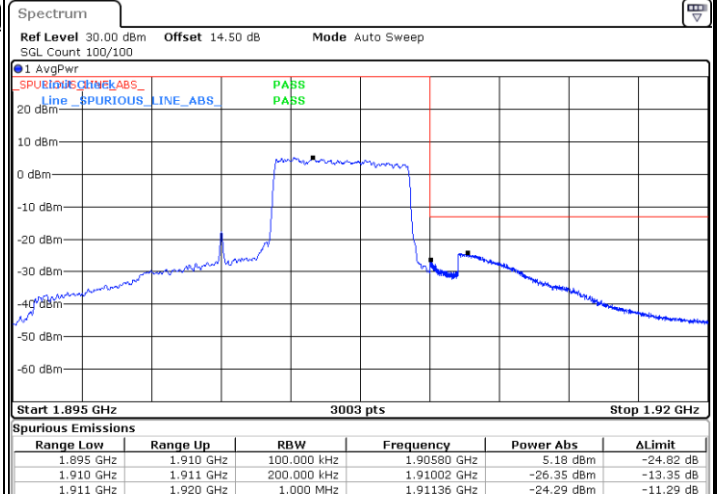
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



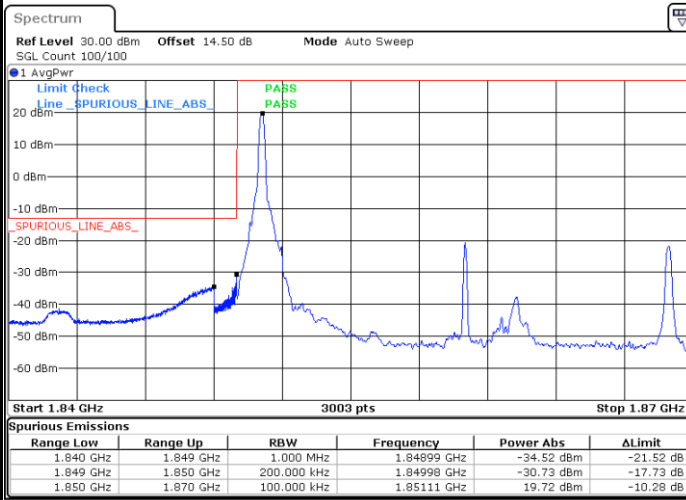
Highest Band Edge / Full RB



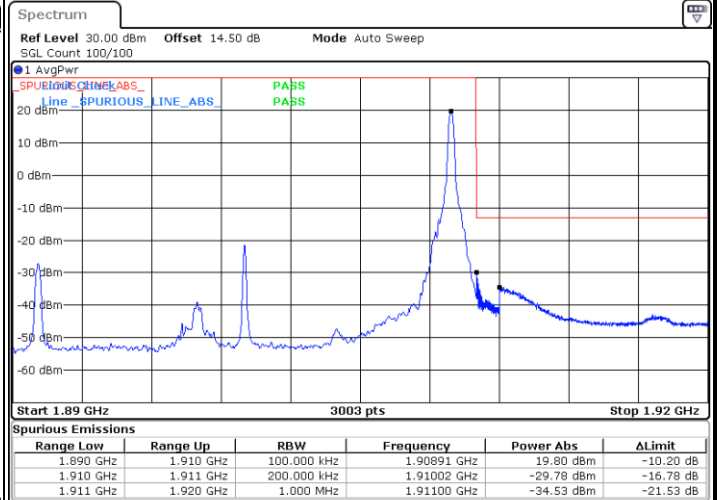


LTE Band 2 / 20MHz / QPSK

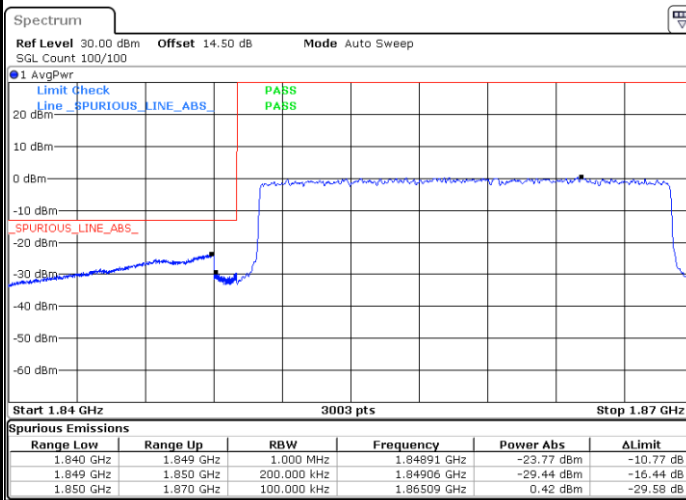
Lowest Band Edge / 1RB



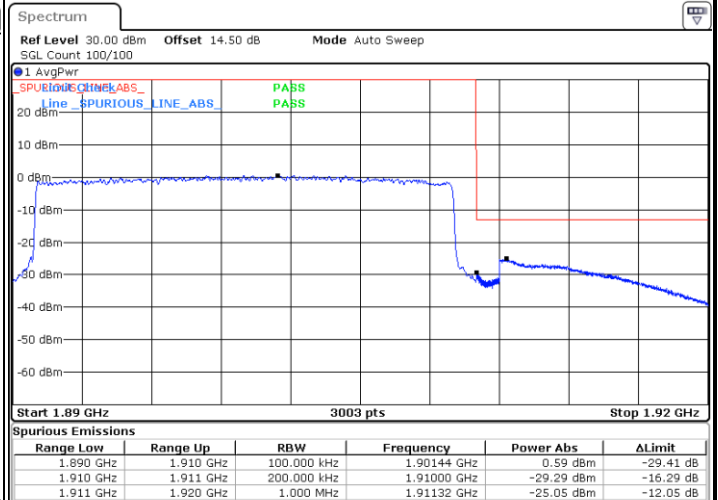
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



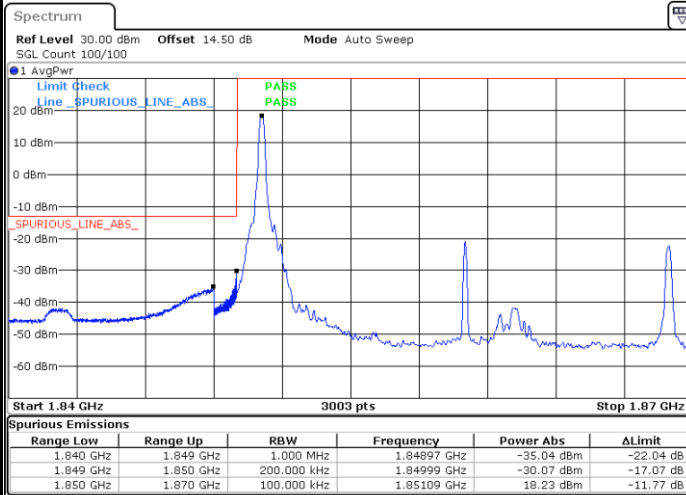
Highest Band Edge / Full RB





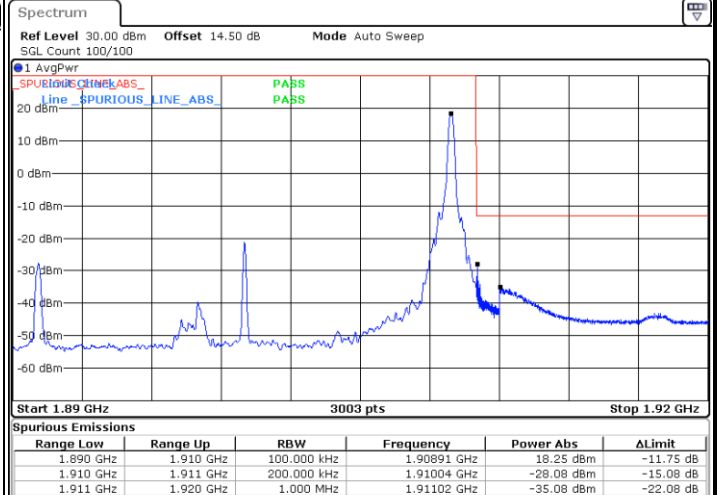
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



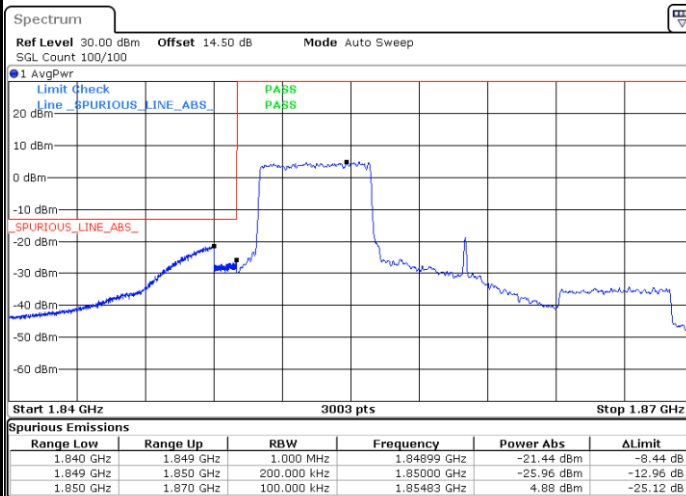
Date: 22 MAR 2025 12:51:10

Highest Band Edge / 1 RB



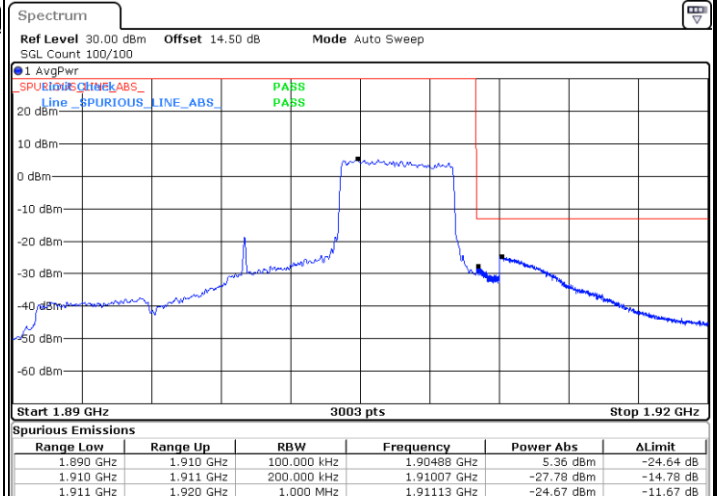
Date: 22 MAR 2025 12:54:32

Lowest Band Edge / Full RB



Date: 22 MAR 2025 13:16:22

Highest Band Edge / Full RB



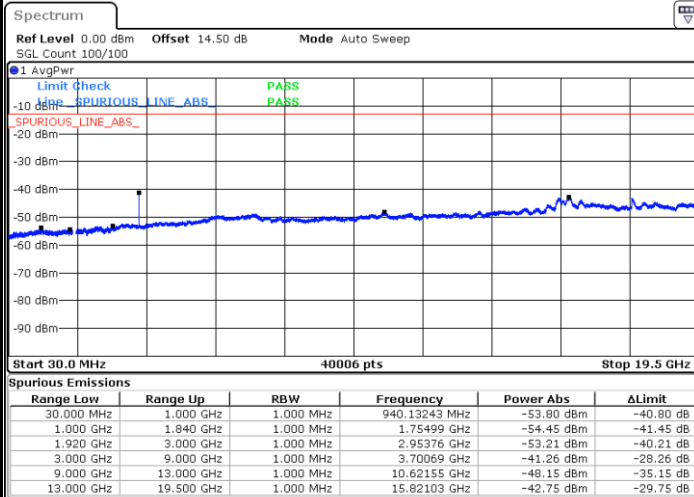
Date: 22 MAR 2025 13:19:51



Conducted Spurious Emission

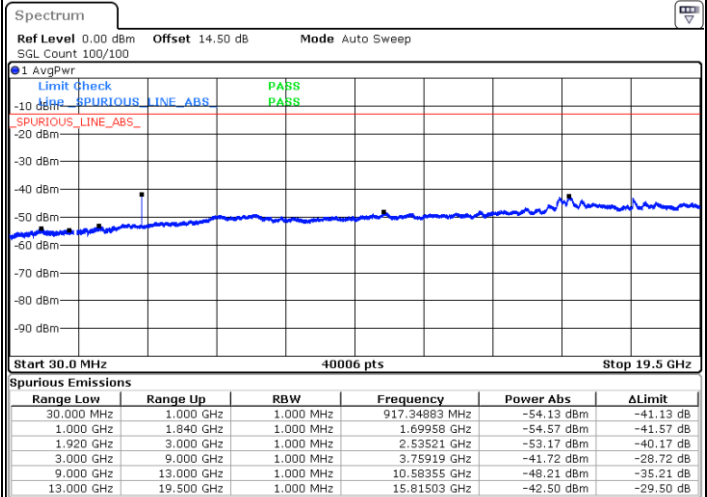
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK



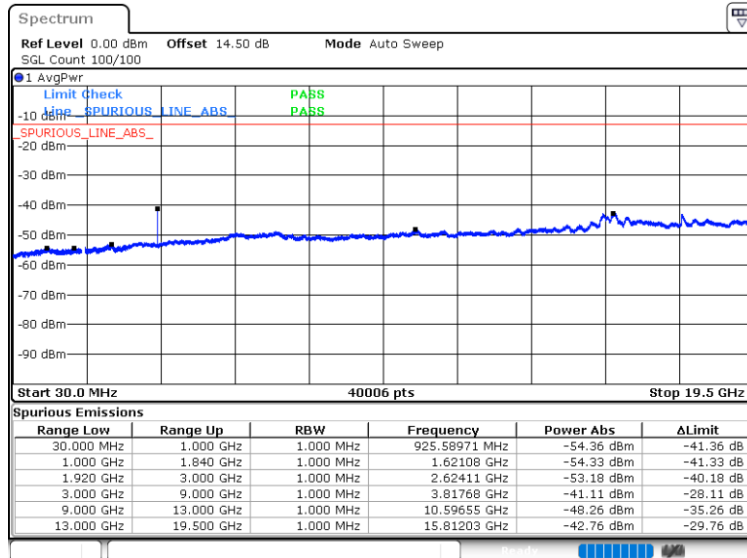
Date: 22.MAR.2025 13:14:15

Middle Channel / QPSK



Date: 22.MAR.2025 13:13:16

Highest Channel / QPSK

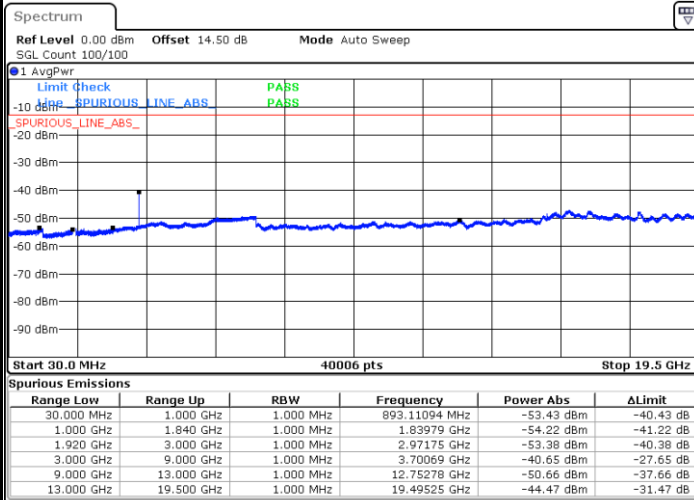


Date: 22.MAR.2025 13:15:40



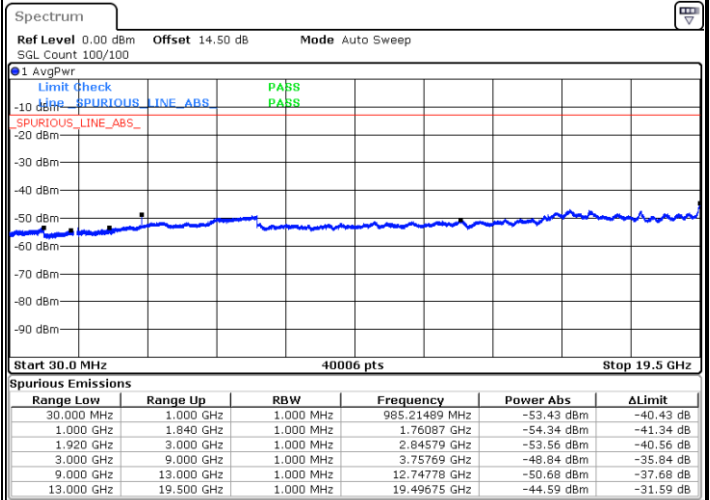
LTE Band 2 / 3MHz

Lowest Channel / QPSK



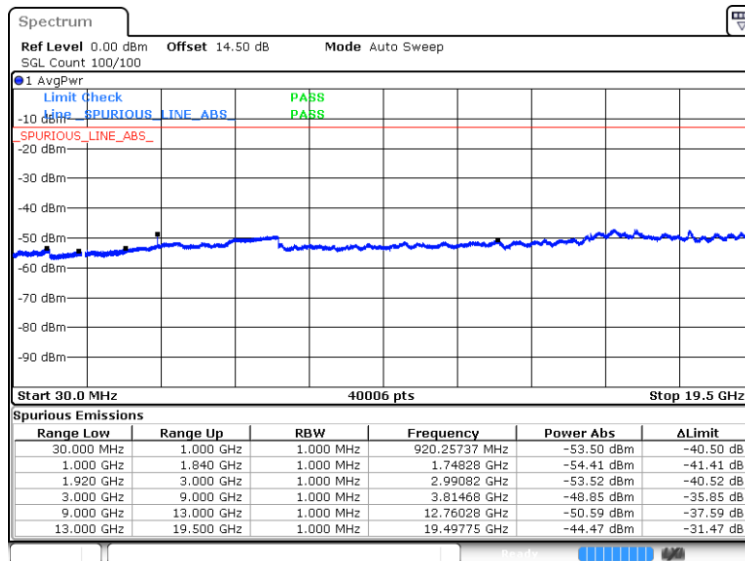
Date: 22 MAR 2025 12:05:57

Middle Channel / QPSK



Date: 22 MAR 2025 12:06:57

Highest Channel / QPSK

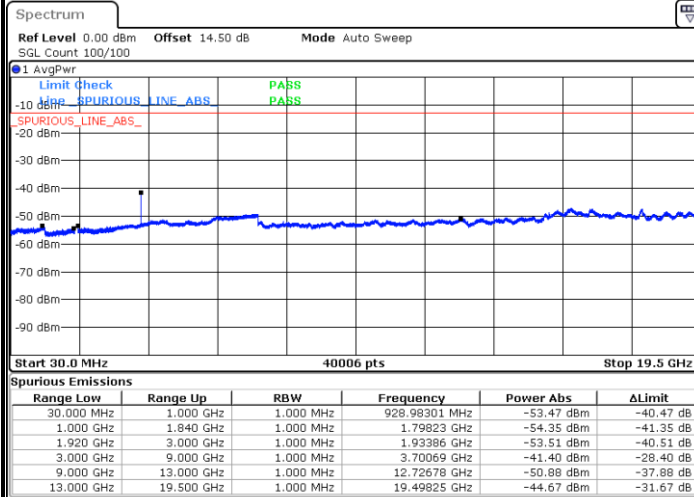


Date: 22 MAR 2025 12:07:56



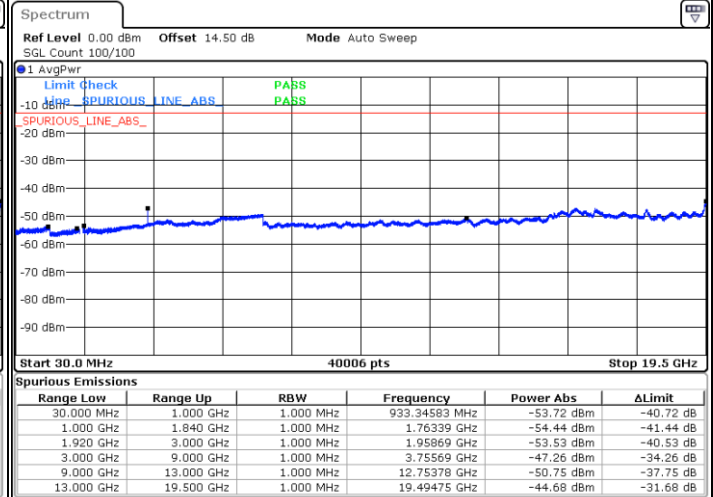
LTE Band 2 / 5MHz

Lowest Channel / QPSK



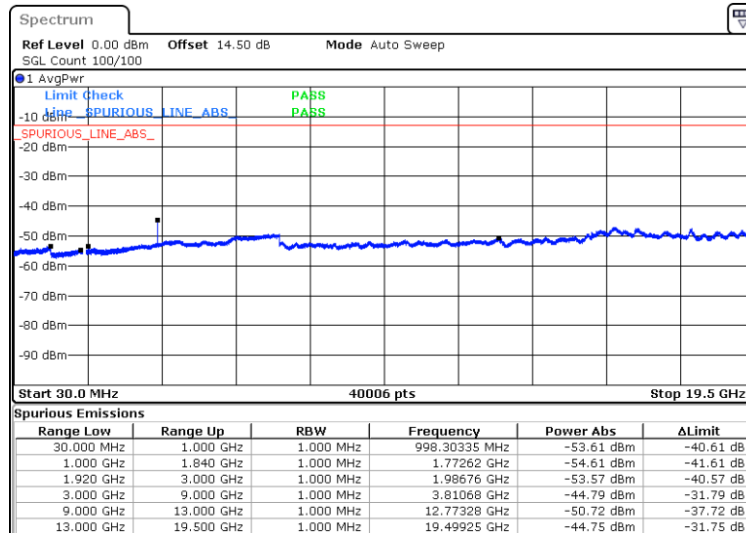
Date: 22 MAR 2025 12:35:32

Middle Channel / QPSK



Date: 22 MAR 2025 12:36:34

Highest Channel / QPSK

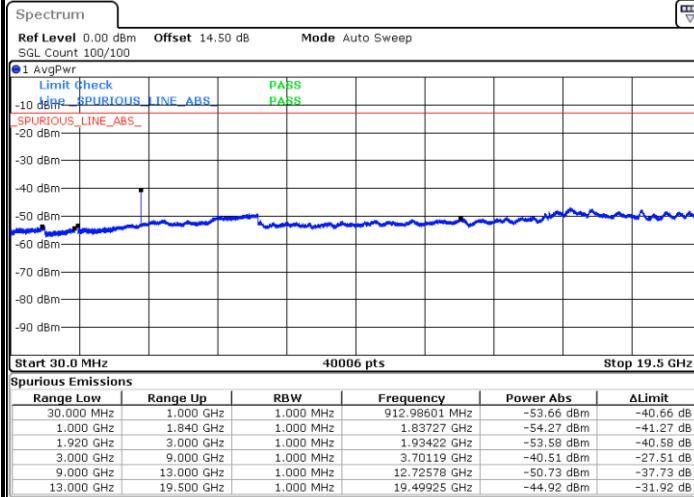


Date: 22 MAR 2025 12:37:36



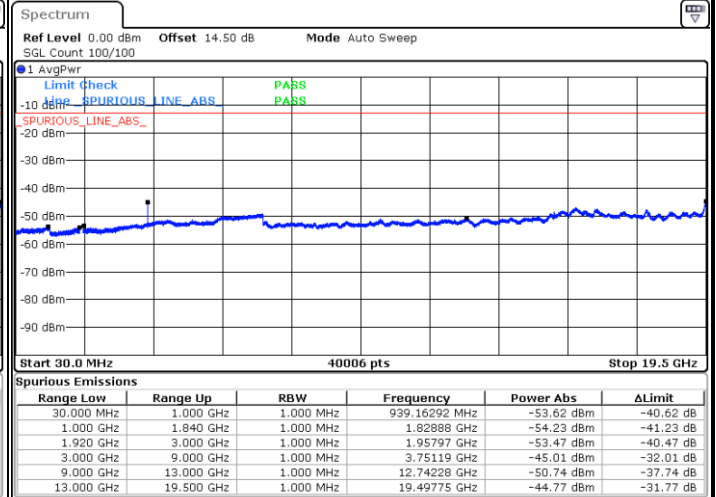
LTE Band 2 / 10MHz

Lowest Channel / QPSK



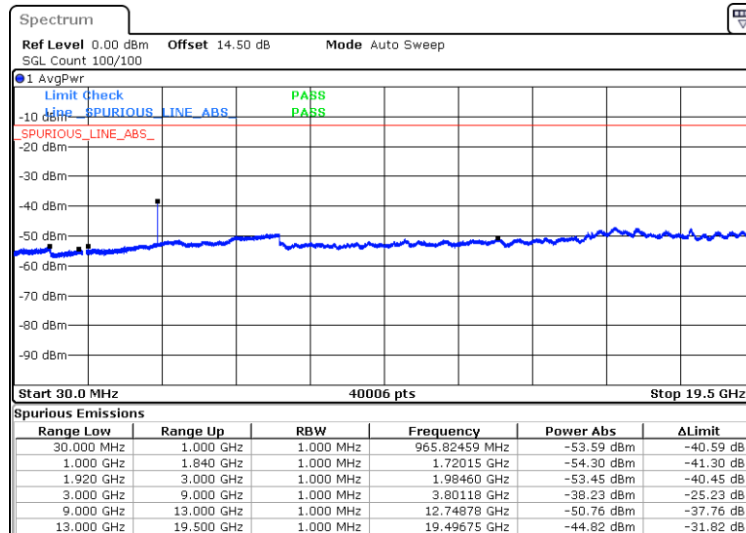
Date: 22 MAR 2025 12:40:01

Middle Channel / QPSK



Date: 22 MAR 2025 12:41:04

Highest Channel / QPSK

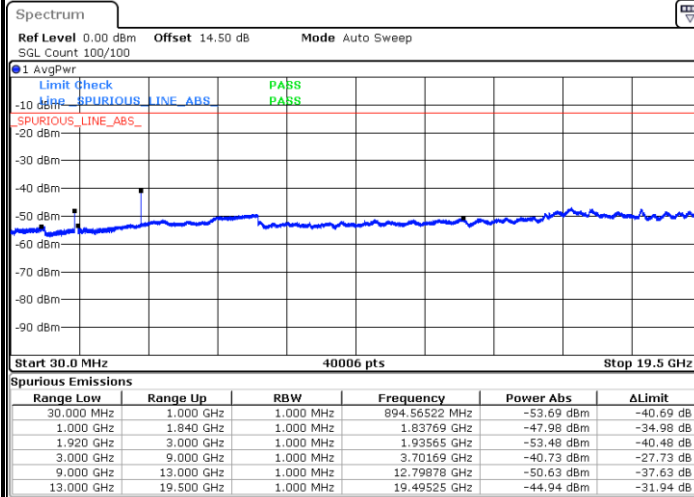


Date: 22 MAR 2025 12:43:23



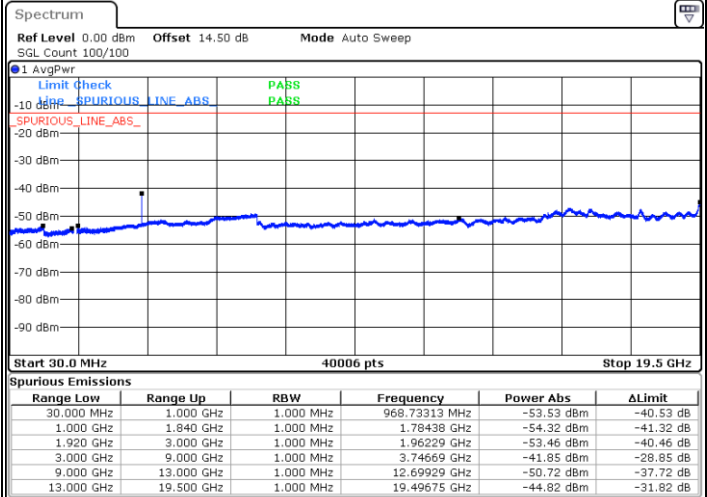
LTE Band 2 / 15MHz

Lowest Channel / QPSK



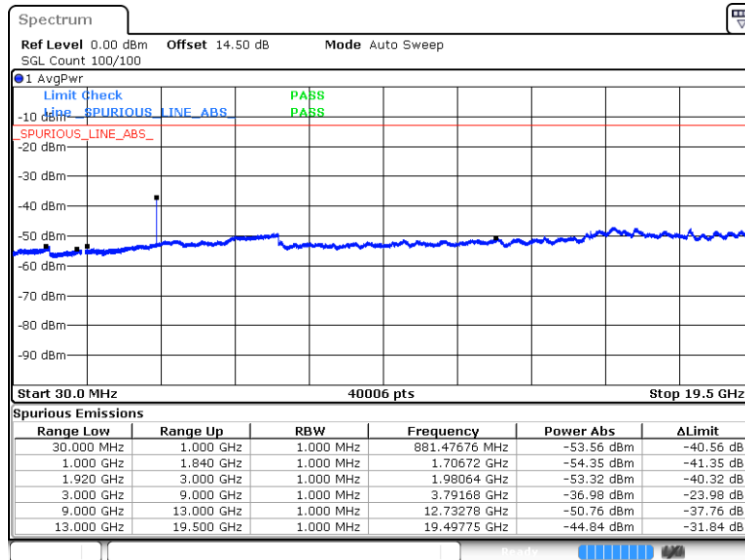
Date: 22 MAR 2025 12:45:48

Middle Channel / QPSK



Date: 22 MAR 2025 12:46:50

Highest Channel / QPSK

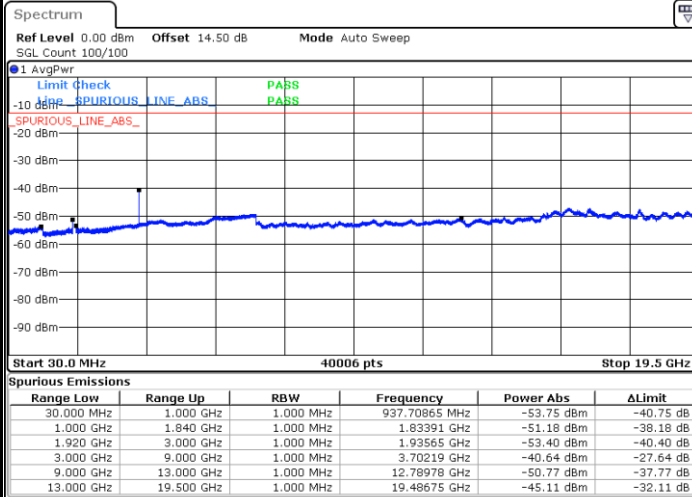


Date: 22 MAR 2025 12:49:48



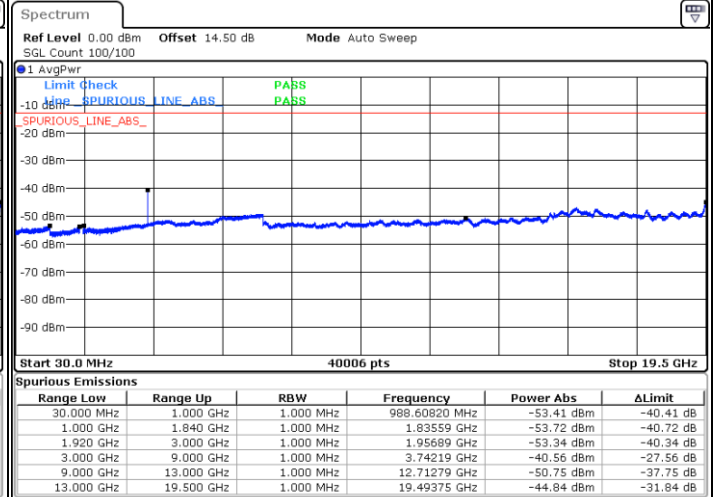
LTE Band 2 / 20MHz

Lowest Channel / QPSK



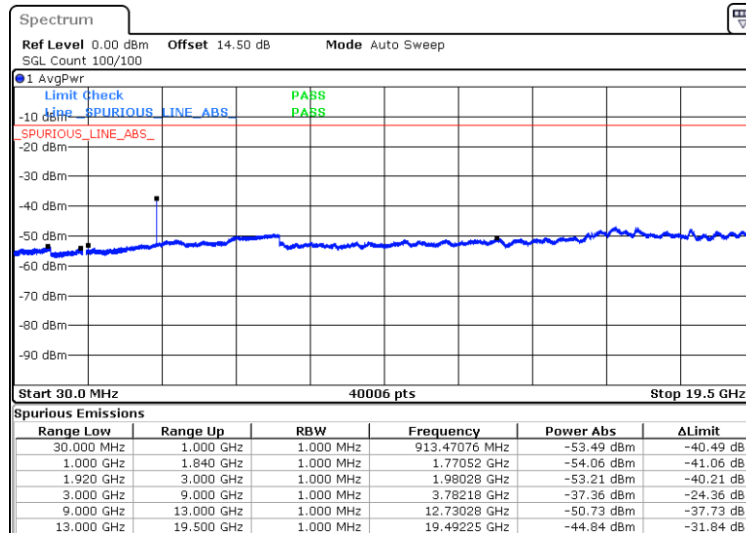
Date: 22 MAR 2025 12:52:13

Middle Channel / QPSK



Date: 22 MAR 2025 12:53:15

Highest Channel / QPSK



Date: 22 MAR 2025 12:55:35

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.87 V.; Battery End Point (BEP) = 3.5 V.; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.49	5.51	-	PASS