



FCC RF Test Report

APPLICANT : Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT : Portable Tablet Computer
BRAND NAME : Lenovo
MODEL NAME : TB336ZU
FCC ID : O57TB336ZU
STANDARD : 47 CFR Part 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Feb. 26, 2025 ~ Mar. 20, 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
FG512510B	Rev. 01	Initial issue of report	Mar. 28, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt	PASS	-
	§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 §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 25) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 25) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 25) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 25.14 dB at 10103.20 MHz

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

Lenovo(Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	TB336ZU
FCC ID	O57TB336ZU
IMEI Code	Conducted: 865246070007573 Radiation: 865246070008456/865246070008464
HW Version	TB336ZU
SW Version	Lenovo ZUI 17.0
EUT Stage	Identical Prototype

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



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 25 : 1850 MHz ~ 1915 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 25 : 1930 MHz ~ 1995 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 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<ANT4> LTE Band 2 : 22.79 dBm LTE Band 4 : 22.65 dBm LTE Band 25 : 22.80 dBm LTE Band 66 : 22.66 dBm <ANT5> LTE Band 2 : 22.71 dBm LTE Band 4 : 22.39 dBm LTE Band 66 : 22.41 dBm <ANT7> LTE Band 2 : 22.47 dBm LTE Band 4 : 22.70 dBm LTE Band 66 : 22.73 dBm
Antenna Gain	<ANT4> LTE Band 2 : -3.0 dBi LTE Band 4 : -2.5 dBi LTE Band 25 : -3.0 dBi LTE Band 66 : -2.5 dBi <ANT5> LTE Band 2 : -4.7 dBi LTE Band 4 : -5.0 dBi LTE Band 66 : -5.0 dBi <ANT7> LTE Band 2 : -4.8 dBi LTE Band 4 : -5.0 dBi LTE Band 66 : -4.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Antenna 4 for LTE Band2/4/25/66 are shown in the report.
2. The device supports two PAs for LTE Band 2 (main PA, and other PA for NSA mode only), LTE Band 2 main PA is covered by band 25 at the maximum power, other PA is full tested, only the worst EIRP are shown in the report.
3. The device supports two PAs for LTE Band 4/66 (main PA, and other PA for NSA mode only), both the PAs are full tested, only the worst EIRP are shown in the report. LTE Band 4 is covered by band



66 at the maximum power.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM/256QAM	
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	0.0933	1M10G7D	0.0748	1M10W7D
3	1851.5 ~ 1908.5	0.0931	2M70G7D	0.0753	2M70W7D
5	1852.5 ~ 1907.5	0.0938	4M52G7D	0.0738	4M51W7D
10	1855.0 ~ 1905.0	0.0951	9M03G7D	0.0743	8M99W7D
15	1857.5 ~ 1902.5	0.0931	13M4G7D	0.0760	13M4W7D
20	1860.0 ~ 1900.0	0.0953	17M9G7D	0.0759	17M8W7D
LTE Band 25		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.0914	1M10G7D	0.0745	1M10W7D
3	1851.5 ~ 1913.5	0.0951	2M72G7D	0.0757	2M72W7D
5	1852.5 ~ 1912.5	0.0933	4M50G7D	0.0728	4M48W7D
10	1855.0 ~ 1910.0	0.0953	9M05G7D	0.0726	8M99W7D
15	1857.5 ~ 1907.5	0.0916	13M4G7D	0.0736	13M4W7D
20	1860.0 ~ 1905.0	0.0955	17M9G7D	0.0757	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM/256QAM	
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	0.1000	1M09G7D	0.0830	1M09W7D
3	1711.5 ~ 1753.5	0.1005	2M72G7D	0.0826	2M72W7D
5	1712.5 ~ 1752.5	0.0989	4M50G7D	0.0820	4M50W7D
10	1715.0 ~ 1750.0	0.1012	9M07G7D	0.0826	9M03W7D
15	1717.5 ~ 1747.5	0.0991	13M5G7D	0.0822	13M5W7D
20	1720.0 ~ 1745.0	0.1035	17M9G7D	0.0836	18M0W7D



LTE Band 66		QPSK		16QAM/64QAM/256QAM	
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	0.1023	1M09G7D	0.0871	1M09W7D
3	1711.5 ~ 1778.5	0.1021	2M72G7D	0.0787	2M72W7D
5	1712.5 ~ 1777.5	0.0993	4M50G7D	0.0789	4M50W7D
10	1715.0 ~ 1775.0	0.1026	9M07G7D	0.0793	9M03W7D
15	1717.5 ~ 1772.5	0.0989	13M5G7D	0.0796	13M5W7D
20	1720.0 ~ 1770.0	0.1038	17M9G7D	0.0804	18M0W7D

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
3. 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

Note: Test data subcontracted: RSE 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 24(E), 27(L)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

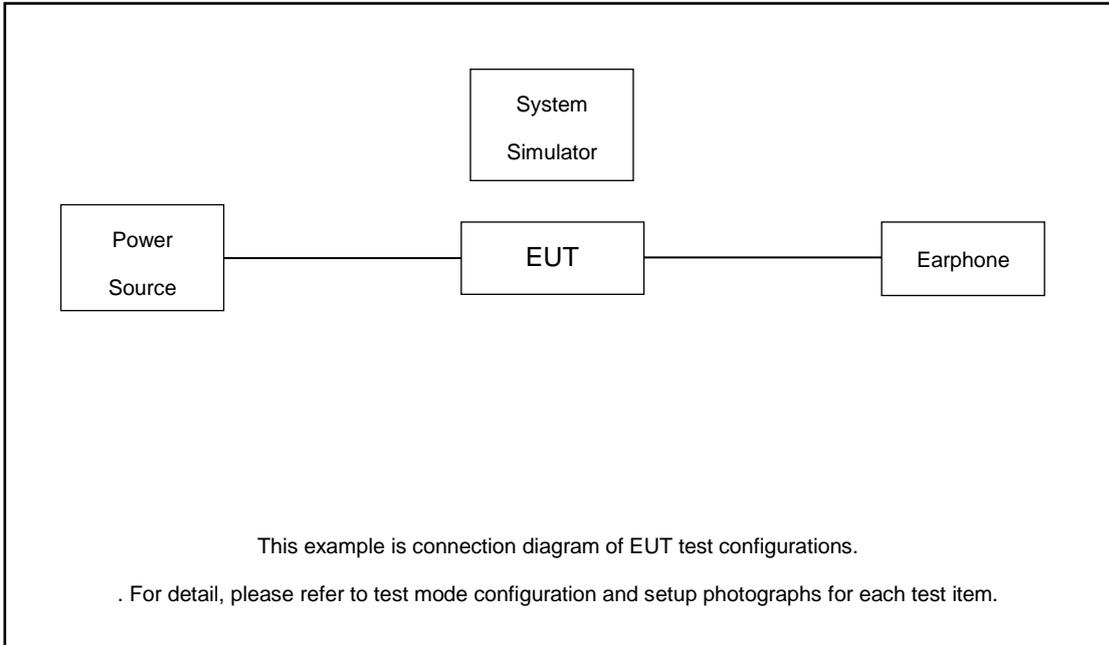
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X 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	2	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
	4	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
	25	v	v	v	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	v	
Peak-to-Average Ratio	2						v	v	v	v	v			v		v		
	25						v	v	v	v	v			v		v		
	66						v	v	v	v	v			v		v		
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v					v		v		
	25	v	v	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	v		v	
	25	v	v	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	
Conducted Spurious Emission	2	v	v	v	v	v	v	v				v			v	v	v	
	25	v	v	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		
	25				v			v						v		v		
	66				v			v						v		v		
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	
	25	v	v	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	25	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 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	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Earphone 1	N/A	N/A	N/A	3.5mm	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

$$\text{Offset} = \text{RF cable loss.}$$

Following shows an offset computation example with cable loss 5.4 dB.



Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.4 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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

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



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

LTE Band 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

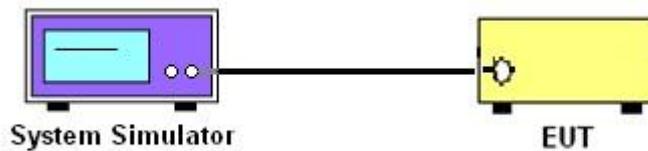
3 Conducted Test Items

3.1 Measuring Instruments

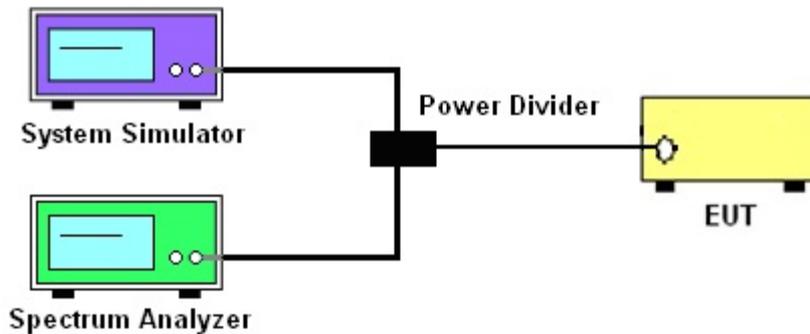
See list of measuring instruments of this test report.

3.2 Test Setup

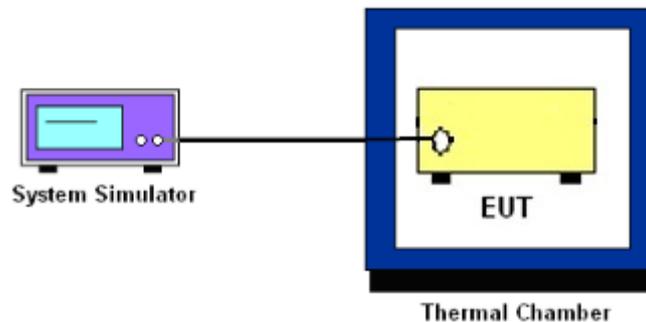
3.2.1 Conducted Output Power



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 EIRP

3.4.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25.

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

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 (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.

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 or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
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:

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

8. 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.

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)
= -13dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

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.

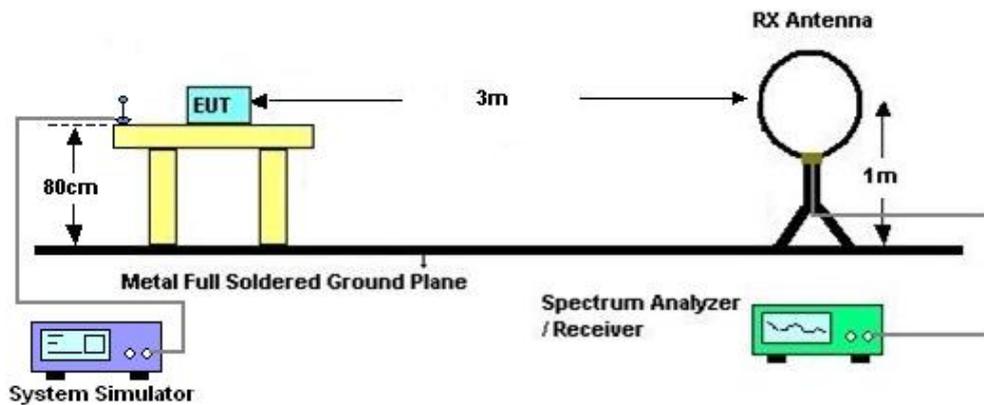
4 Radiated Test Items

4.1 Measuring Instruments

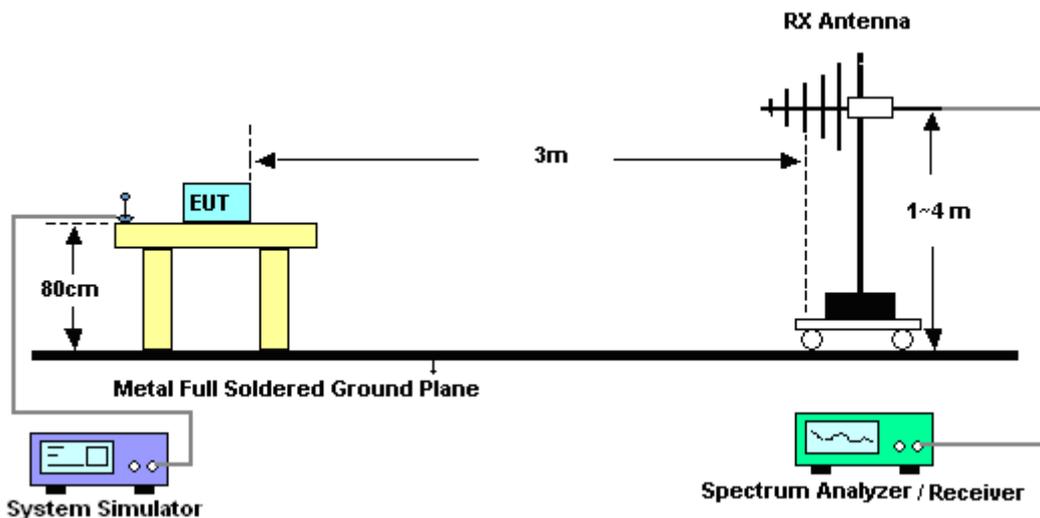
See list of measuring instruments of this test report.

4.2 Test Setup

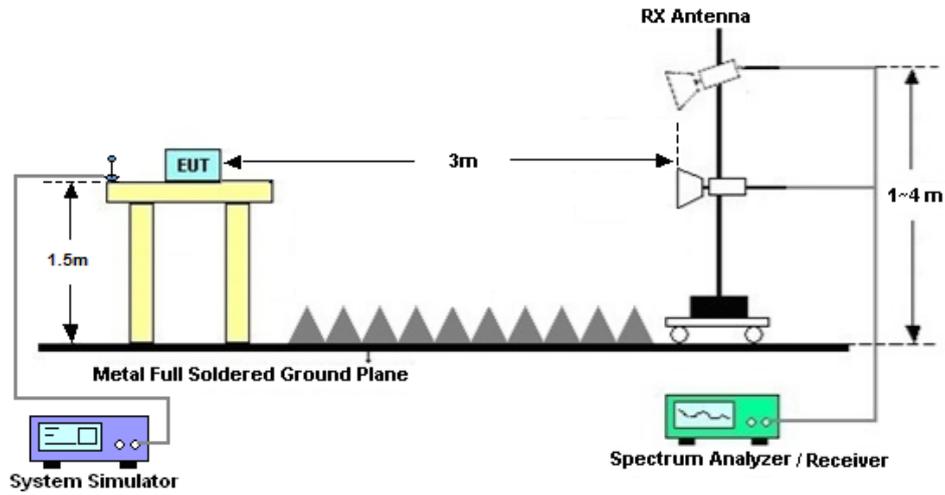
4.2.1 For radiated test below 30MHz



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.

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



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	Feb. 26, 2025~ Mar. 14, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Feb. 26, 2025~ Mar. 14, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Feb. 26, 2025~ Mar. 14, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Mar. 13, 2025~ Mar. 20, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Mar. 13, 2025~ Mar. 20, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Mar. 13, 2025~ Mar. 20, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Mar. 13, 2025~ Mar. 20, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Mar. 13, 2025~ Mar. 20, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Mar. 13, 2025~ Mar. 20, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Mar. 13, 2025~ Mar. 20, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Mar. 13, 2025~ Mar. 20, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Mar. 13, 2025~ Mar. 20, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Mar. 13, 2025~ Mar. 20, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Mar. 13, 2025~ Mar. 20, 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	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04ppm

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°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band2_ANT4:

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	22.58	22.79	22.62	0.0908	0.0953	0.0916
20	QPSK	1	99	22.57	22.75	22.57	0.0906	0.0944	0.0906
20	QPSK	100	0	21.59	21.74	21.57	0.0723	0.0748	0.0719
20	16QAM	1	0	21.77	21.80	21.79	0.0753	0.0759	0.0757
20	64QAM	1	0	20.60	20.70	20.59	0.0575	0.0589	0.0574
20	256QAM	1	0	17.39	17.49	17.34	0.0275	0.0281	0.0272
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.60	22.69	22.50	0.0912	0.0931	0.0891
15	16QAM	1	0	21.67	21.81	21.57	0.0736	0.0760	0.0719
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.49	22.78	22.60	0.0889	0.0951	0.0912
10	16QAM	1	0	21.71	21.70	21.70	0.0743	0.0741	0.0741
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.38	22.72	22.63	0.0867	0.0938	0.0918
5	16QAM	1	0	21.56	21.68	21.67	0.0718	0.0738	0.0736
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.46	22.69	22.52	0.0883	0.0931	0.0895
3	16QAM	1	0	21.74	21.77	21.71	0.0748	0.0753	0.0743
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.49	22.70	22.50	0.0889	0.0933	0.0891
1.4	16QAM	1	0	21.68	21.74	21.72	0.0738	0.0748	0.0745



LTE Band4_ANT4:

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	EIRP(W)		
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	22.44	22.65	22.58	0.0986	0.1035	0.1019
20	QPSK	1	99	22.51	22.62	22.45	0.1002	0.1028	0.0989
20	QPSK	100	0	21.55	21.63	21.58	0.0804	0.0818	0.0809
20	16QAM	1	0	21.72	21.71	21.66	0.0836	0.0834	0.0824
20	64QAM	1	0	20.54	20.67	20.49	0.0637	0.0656	0.0630
20	256QAM	1	0	17.28	17.33	17.33	0.0301	0.0304	0.0304
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	22.33	22.46	22.38	0.0962	0.0991	0.0973
15	16QAM	1	0	21.62	21.61	21.65	0.0817	0.0815	0.0822
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	22.35	22.46	22.55	0.0966	0.0991	0.1012
10	16QAM	1	0	21.66	21.67	21.60	0.0824	0.0826	0.0813
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	22.26	22.45	22.42	0.0946	0.0989	0.0982
5	16QAM	1	0	21.56	21.57	21.64	0.0805	0.0807	0.0820
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	22.34	22.52	22.46	0.0964	0.1005	0.0991
3	16QAM	1	0	21.52	21.67	21.55	0.0798	0.0826	0.0804
Channel				19957	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	22.39	22.50	22.29	0.0975	0.1000	0.0953
1.4	16QAM	1	0	21.54	21.69	21.61	0.0802	0.0830	0.0815



LTE Band25_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				26140	26340	26590			
Frequency (MHz)				1860	1880	1905	L	M	H
20	QPSK	1	0	22.64	22.80	22.78	0.0920	0.0955	0.0951
20	QPSK	1	99	22.56	22.73	22.57	0.0904	0.0940	0.0906
20	QPSK	100	0	21.43	21.60	21.38	0.0697	0.0724	0.0689
20	16QAM	1	0	21.73	21.79	21.60	0.0746	0.0757	0.0724
20	64QAM	1	0	20.47	20.52	20.40	0.0558	0.0565	0.0550
20	256QAM	1	0	17.38	17.42	17.14	0.0274	0.0277	0.0259
Channel				26115	26340	26615	EIRP(W)		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	22.52	22.62	22.62	0.0895	0.0916	0.0916
15	16QAM	1	0	21.63	21.67	21.59	0.0729	0.0736	0.0723
Channel				26090	26340	26640	EIRP(W)		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	22.53	22.66	22.79	0.0897	0.0925	0.0953
10	16QAM	1	0	21.52	21.61	21.58	0.0711	0.0726	0.0721
Channel				26065	26340	26665	EIRP(W)		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	22.57	22.70	22.62	0.0906	0.0933	0.0916
5	16QAM	1	0	21.59	21.62	21.60	0.0723	0.0728	0.0724
Channel				26055	26340	26675	EIRP(W)		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	22.65	22.78	22.64	0.0923	0.0951	0.0920
3	16QAM	1	0	21.57	21.79	21.43	0.0719	0.0757	0.0697
Channel				26047	26340	26683	EIRP(W)		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	22.38	22.61	22.34	0.0867	0.0914	0.0859
1.4	16QAM	1	0	21.57	21.54	21.72	0.0719	0.0714	0.0745



LTE Band66_ANT4:

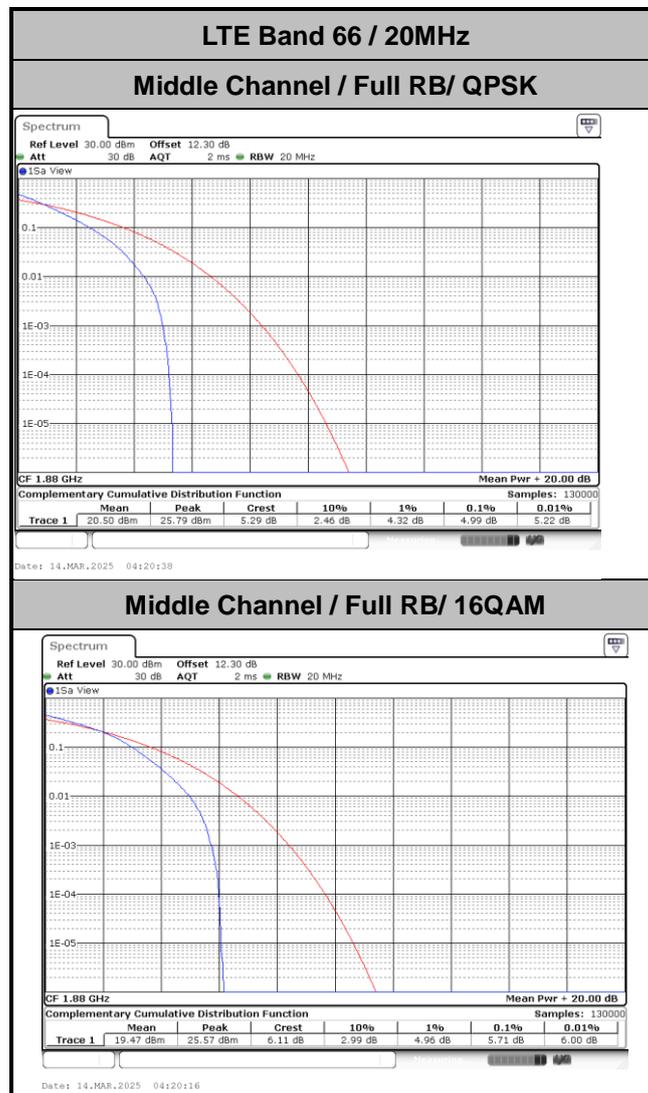
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572	EIRP(W)		
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	22.29	22.66	22.43	0.0953	0.1038	0.0984
20	QPSK	1	99	22.52	22.43	22.24	0.1005	0.0984	0.0942
20	QPSK	100	0	21.43	21.64	21.54	0.0782	0.0820	0.0802
20	16QAM	1	0	21.55	21.53	21.52	0.0804	0.0800	0.0798
20	64QAM	1	0	20.77	20.88	20.79	0.0671	0.0689	0.0675
20	256QAM	1	0	17.38	17.47	17.55	0.0308	0.0314	0.0320
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	22.09	22.45	22.23	0.0910	0.0989	0.0940
15	16QAM	1	0	21.35	21.34	21.51	0.0767	0.0766	0.0796
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	22.25	22.61	22.24	0.0944	0.1026	0.0942
10	16QAM	1	0	21.36	21.49	21.46	0.0769	0.0793	0.0787
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	22.17	22.47	22.30	0.0927	0.0993	0.0955
5	16QAM	1	0	21.47	21.44	21.40	0.0789	0.0783	0.0776
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	22.17	22.59	22.41	0.0927	0.1021	0.0979
3	16QAM	1	0	21.35	21.46	21.34	0.0767	0.0787	0.0766
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	22.44	22.60	22.45	0.0986	0.1023	0.0989
1.4	16QAM	1	0	21.72	21.90	21.79	0.0836	0.0871	0.0849

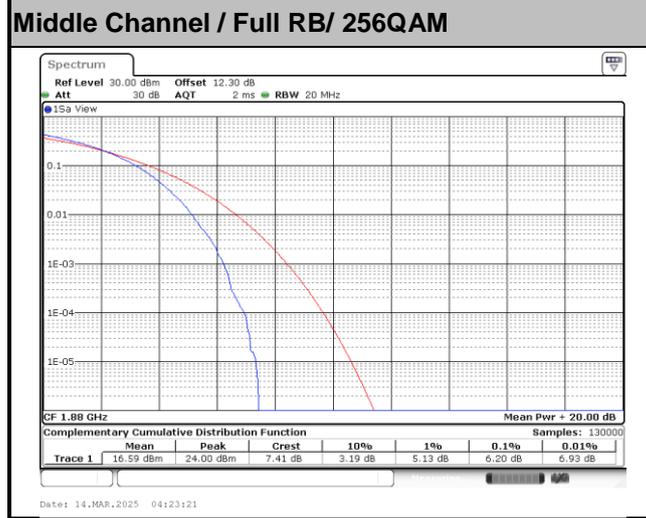
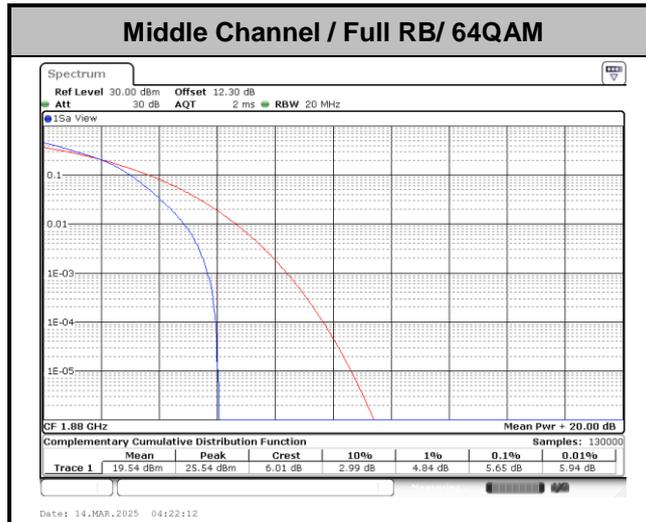


LTE Band 2(Other PA)_ANT7

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.71	5.65	6.20	PASS







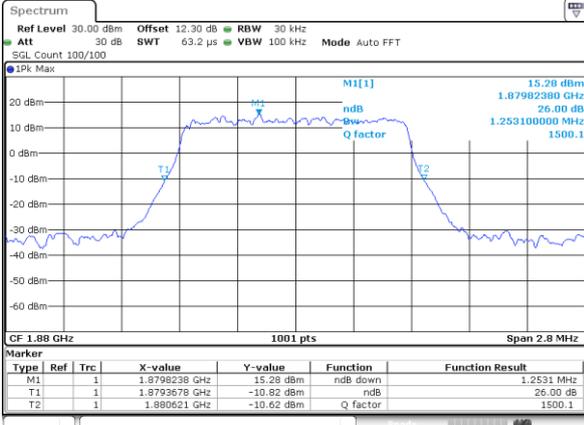
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.25	1.28
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.98	2.93
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.93	4.89
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.63	9.77
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.48	14.39
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.86	18.90



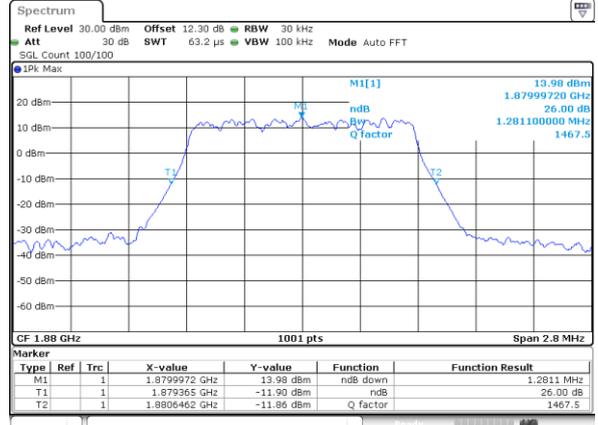
LTE Band 2

Middle Channel / 1.4MHz / QPSK



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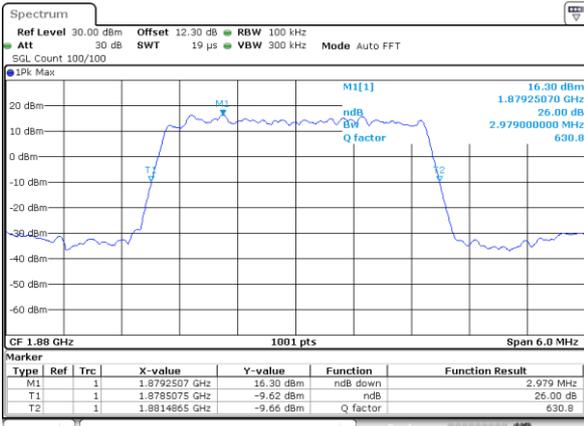
Middle Channel / 1.4MHz / 16QAM



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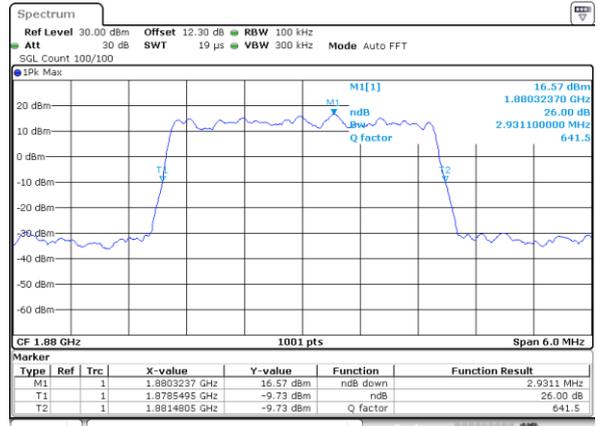
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 14.MAR.2025 06:14:07

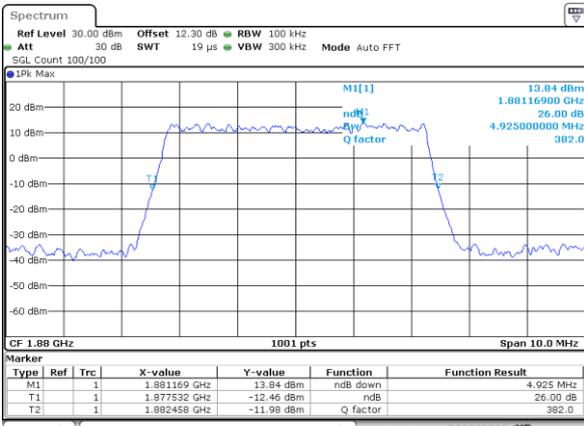
Middle Channel / 3MHz / 16QAM



Date: 14.MAR.2025 06:14:34

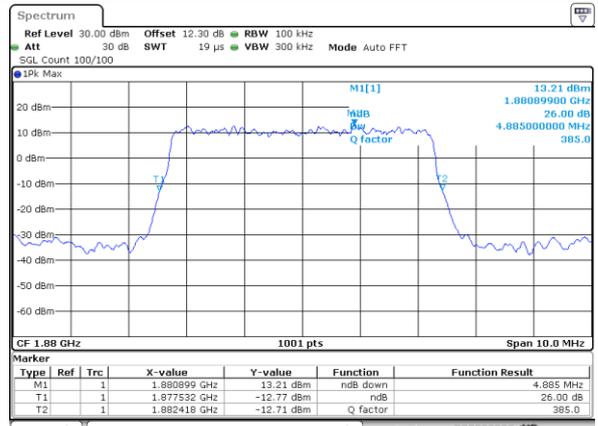
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 14.MAR.2025 05:53:33

Middle Channel / 5MHz / 16QAM

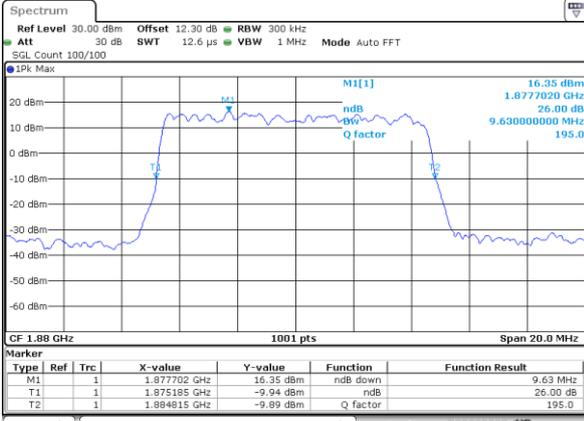


Date: 14.MAR.2025 05:53:59



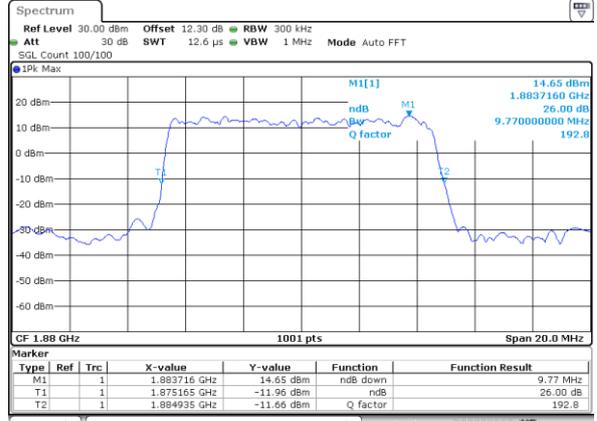
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 14.MAR.2025 05:36:43

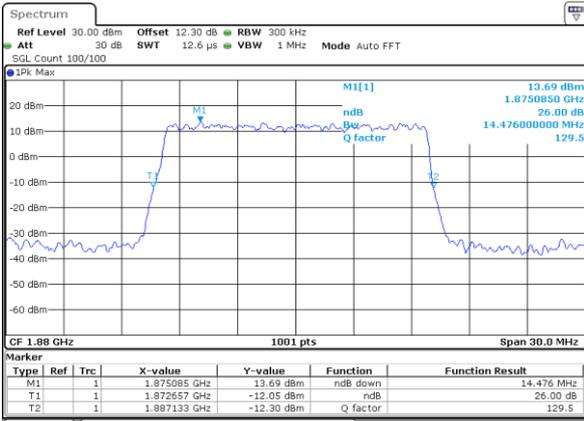
Middle Channel / 10MHz / 16QAM



Date: 14.MAR.2025 05:13:15

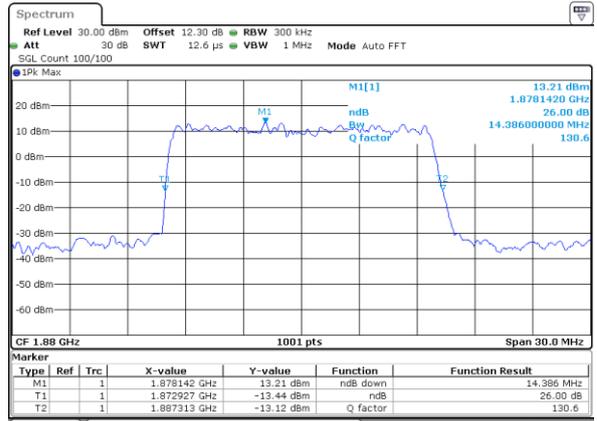
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 14.MAR.2025 05:22:17

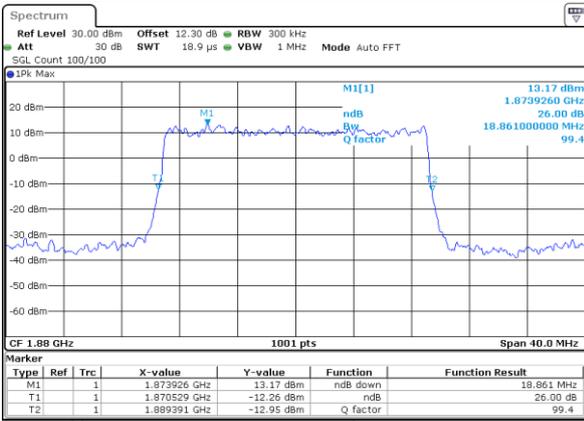
Middle Channel / 15MHz / 16QAM



Date: 14.MAR.2025 05:22:48

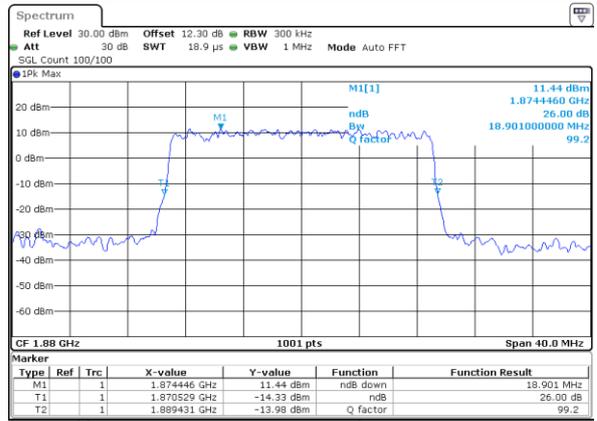
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 14.MAR.2025 04:19:36

Middle Channel / 20MHz / 16QAM



Date: 14.MAR.2025 04:20:02



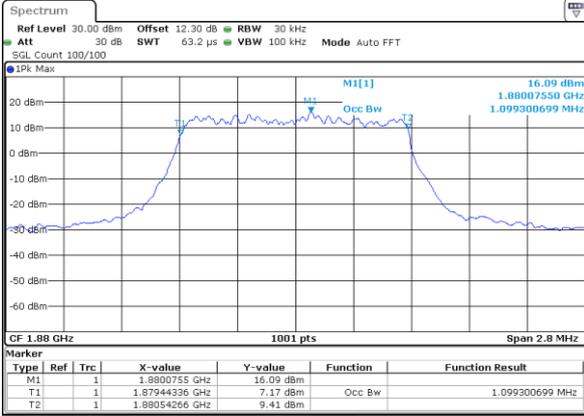
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.10	1.10
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.70	2.70
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.52	4.51
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	8.99
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.40
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.94	17.82



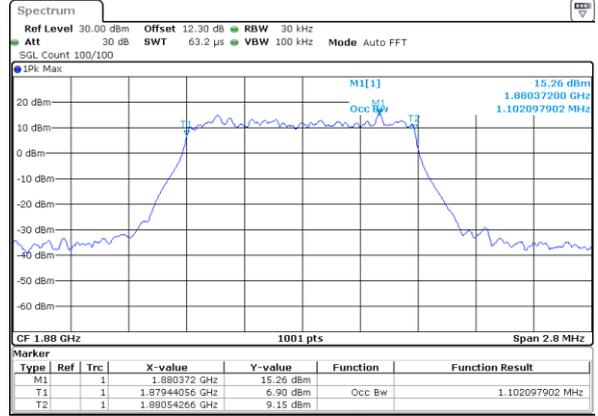
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 14.MAR.2025 06:31:43

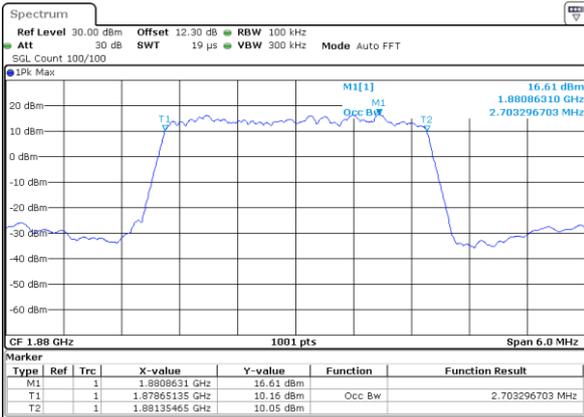
Middle Channel / 1.4MHz / 16QAM



Date: 14.MAR.2025 06:31:15

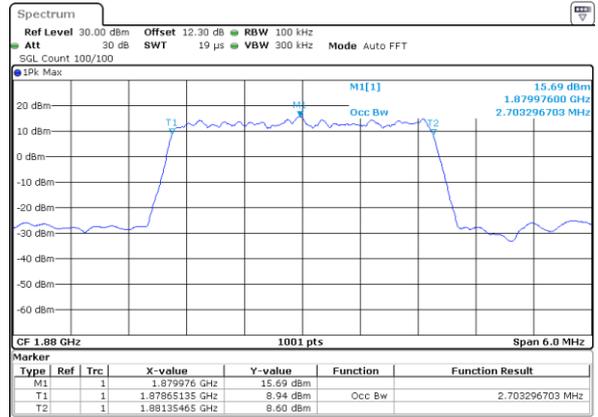
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 14.MAR.2025 06:13:58

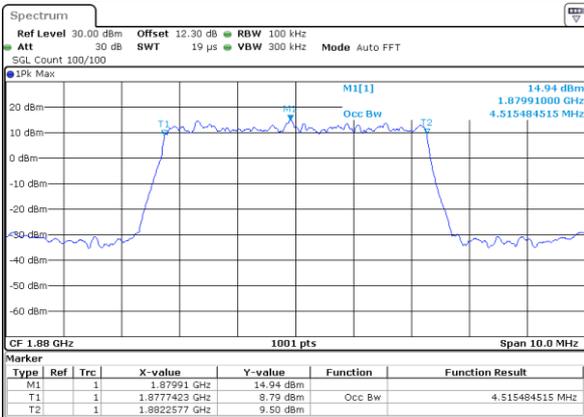
Middle Channel / 3MHz / 16QAM



Date: 14.MAR.2025 06:14:26

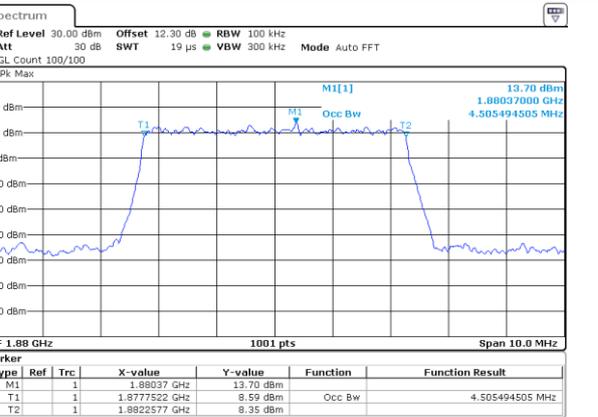
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 14.MAR.2025 05:53:24

Middle Channel / 5MHz / 16QAM

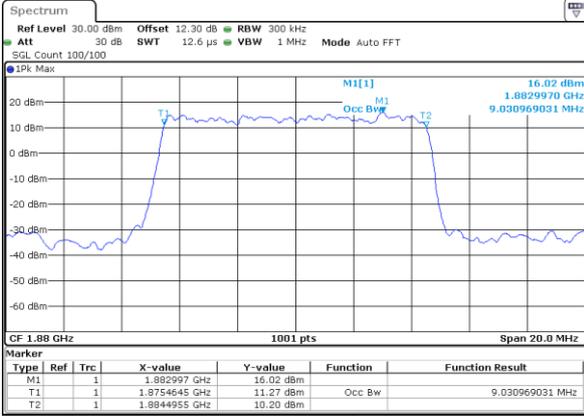


Date: 14.MAR.2025 05:53:49



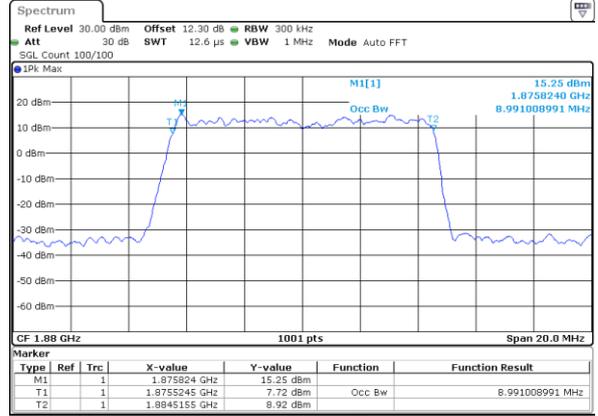
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 14.MAR.2025 05:36:30

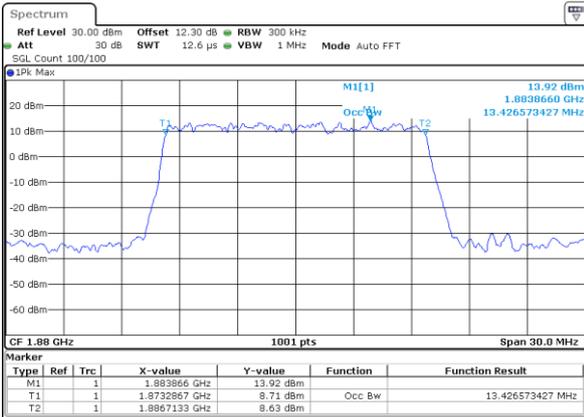
Middle Channel / 10MHz / 16QAM



Date: 14.MAR.2025 05:13:105

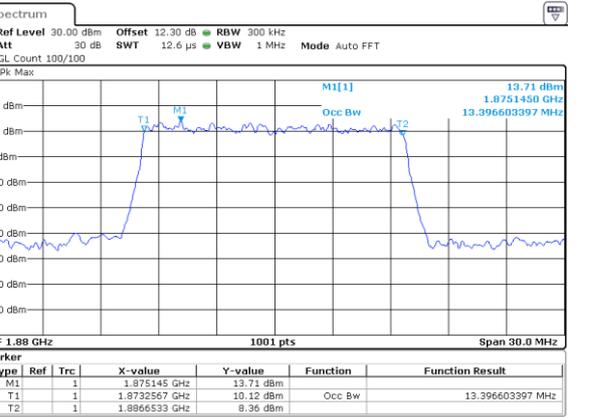
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 14.MAR.2025 05:22:04

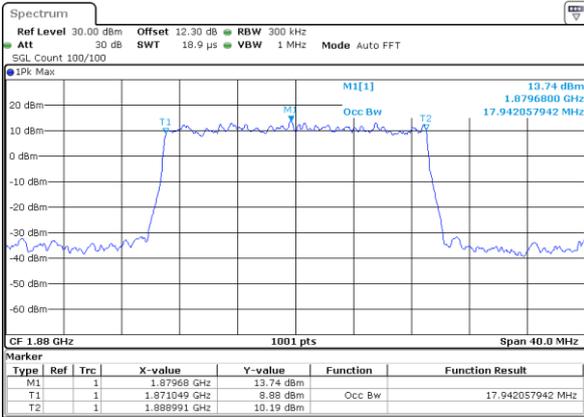
Middle Channel / 15MHz / 16QAM



Date: 14.MAR.2025 05:22:35

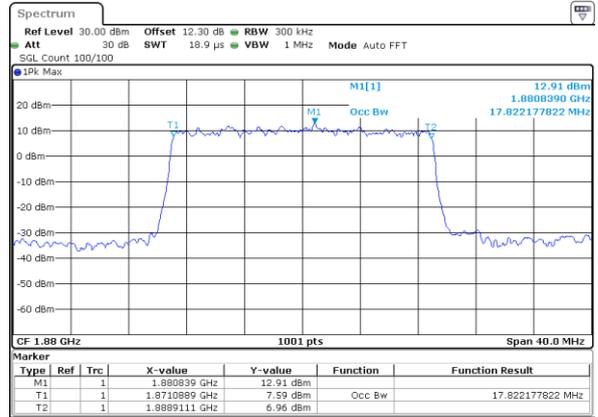
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 14.MAR.2025 04:19:23

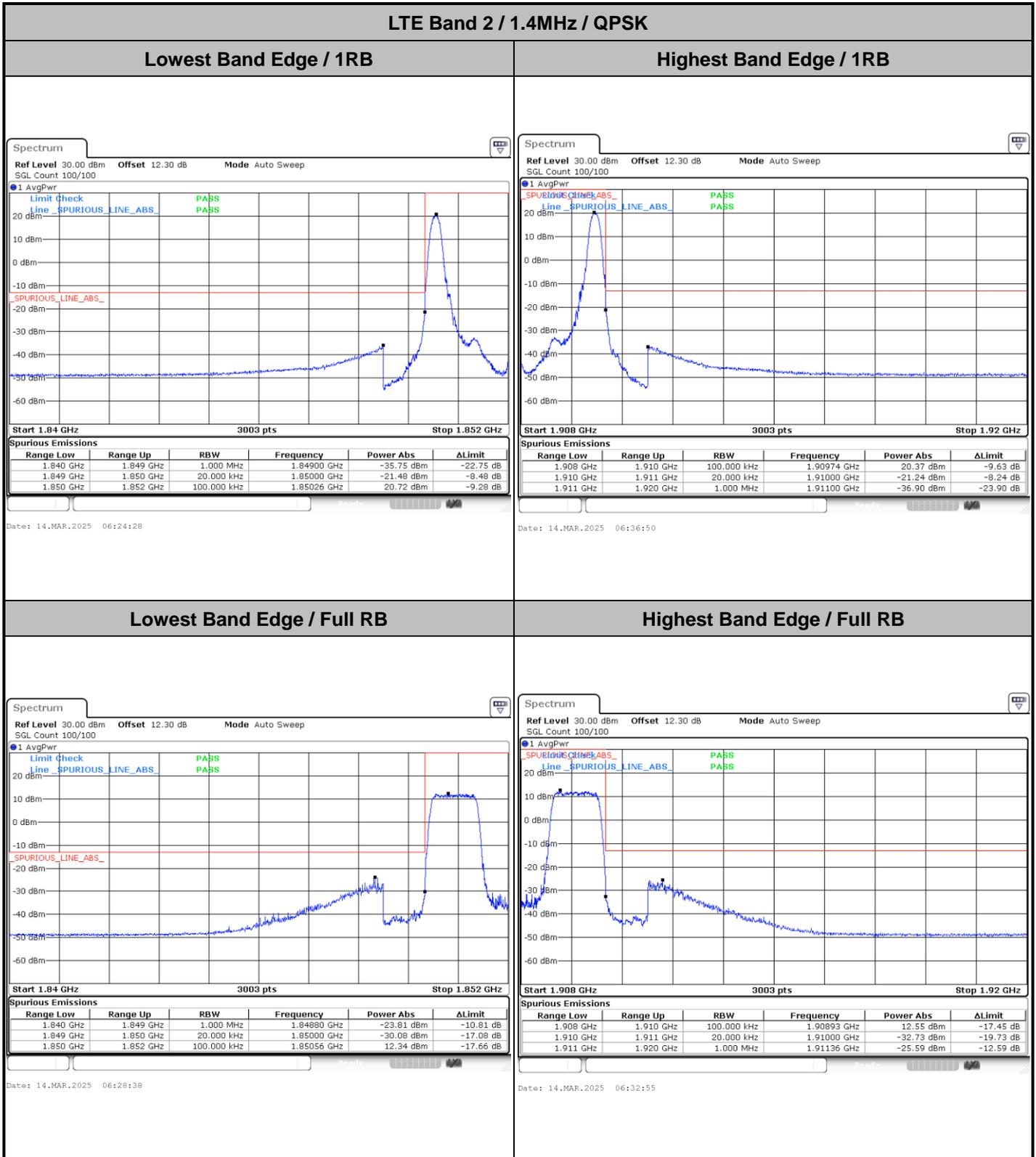
Middle Channel / 20MHz / 16QAM



Date: 14.MAR.2025 04:19:52



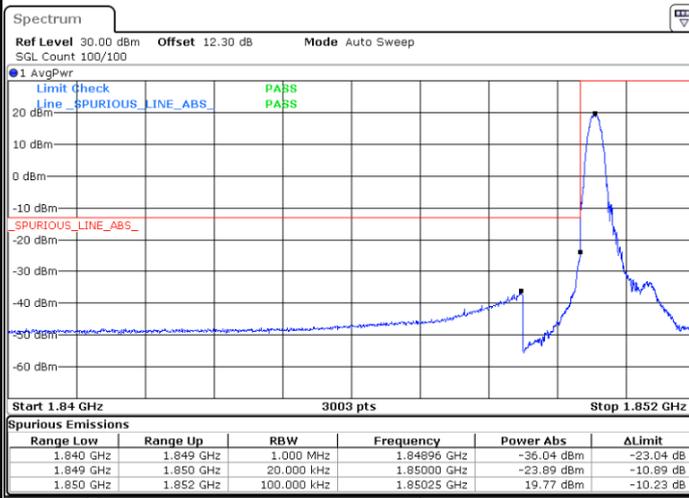
Conducted Band Edge





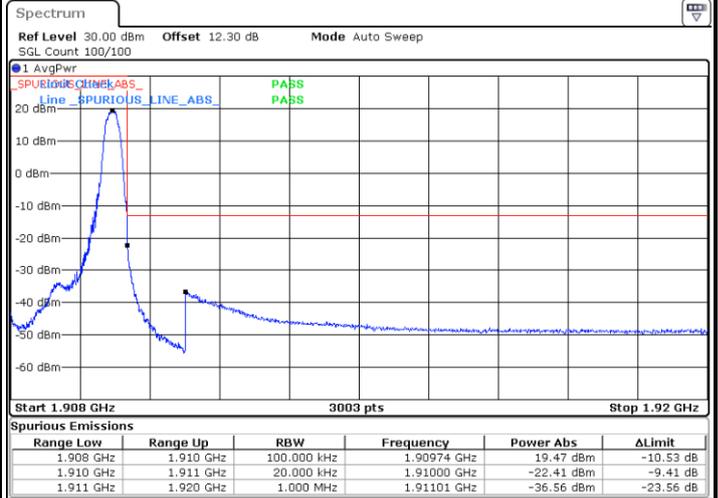
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



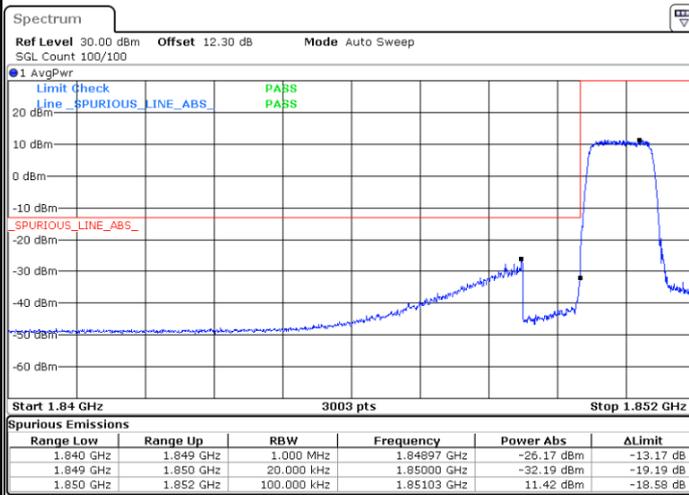
Date: 14.MAR.2025 06:25:01

Highest Band Edge / 1 RB



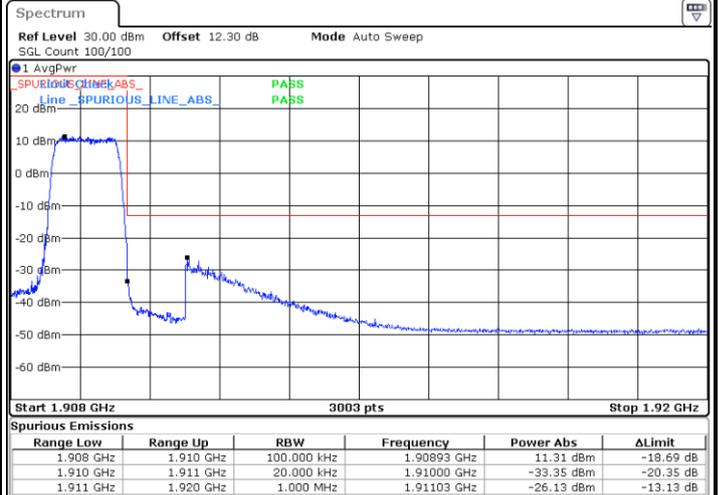
Date: 14.MAR.2025 06:36:22

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:28:09

Highest Band Edge / Full RB

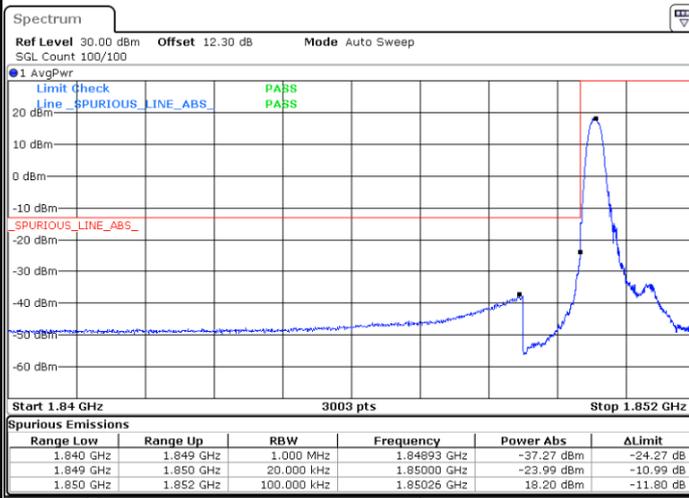


Date: 14.MAR.2025 06:33:27



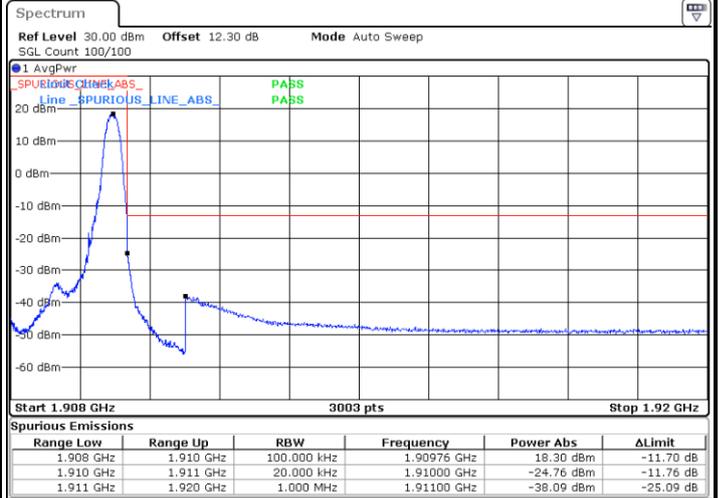
LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



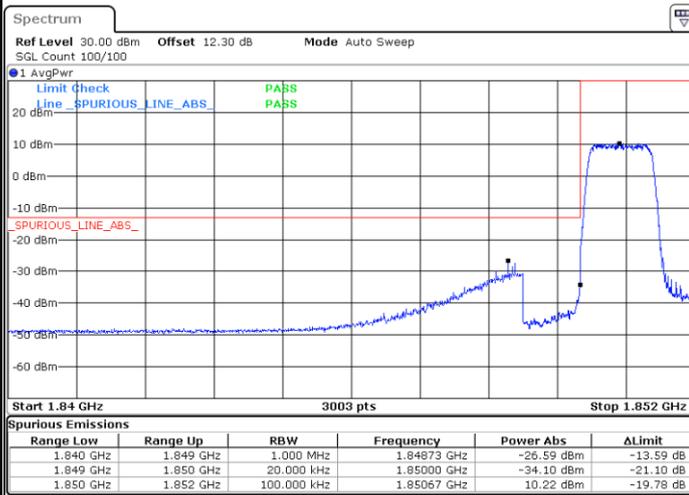
Date: 14.MAR.2025 06:26:08

Highest Band Edge / 1 RB



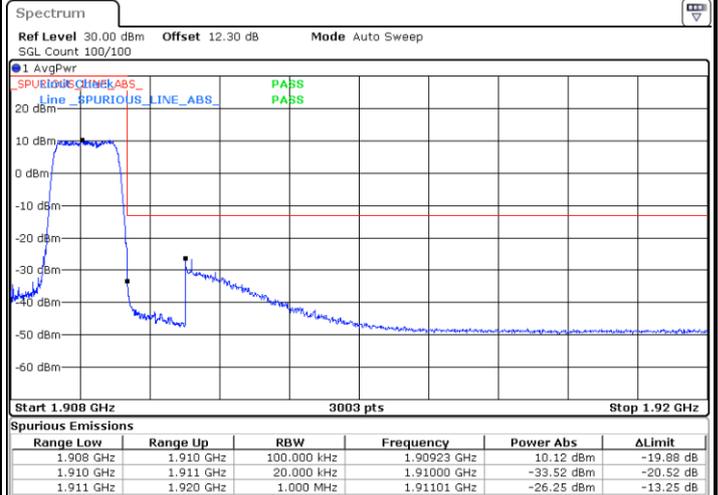
Date: 14.MAR.2025 06:35:52

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:27:40

Highest Band Edge / Full RB

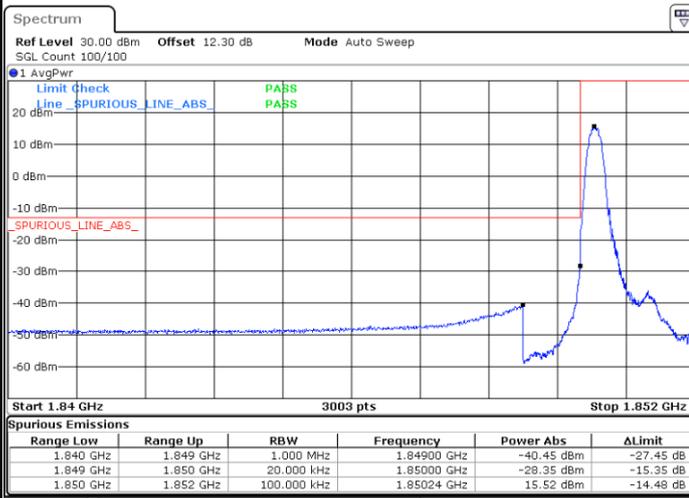


Date: 14.MAR.2025 06:34:16



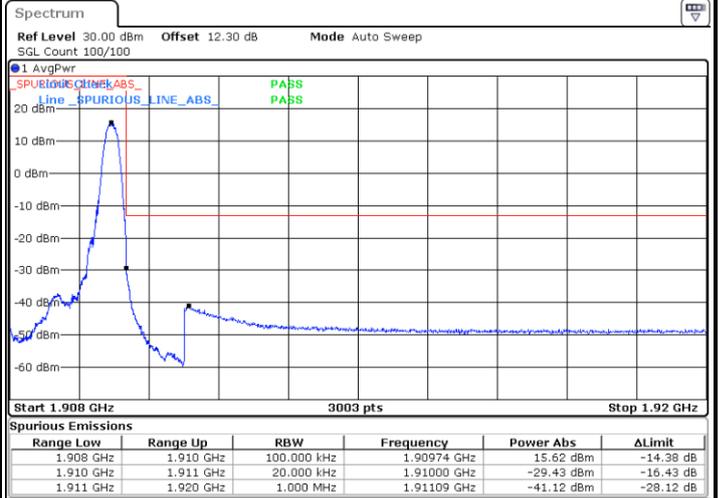
LTE Band 2 / 1.4MHz /256QAM

Lowest Band Edge / 1 RB



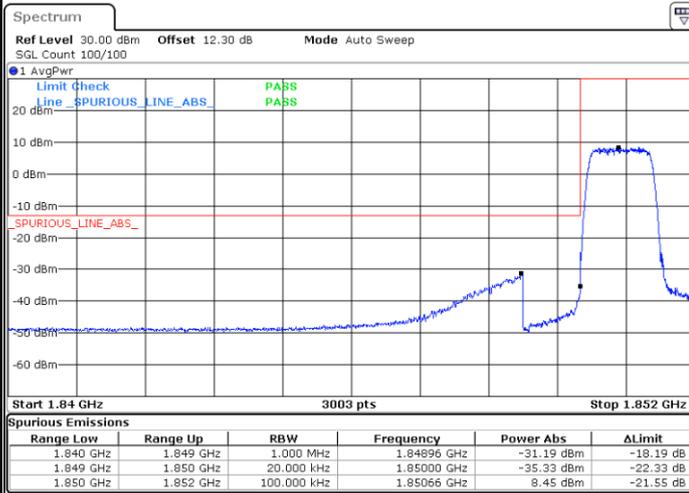
Date: 14.MAR.2025 06:26:39

Highest Band Edge / 1 RB



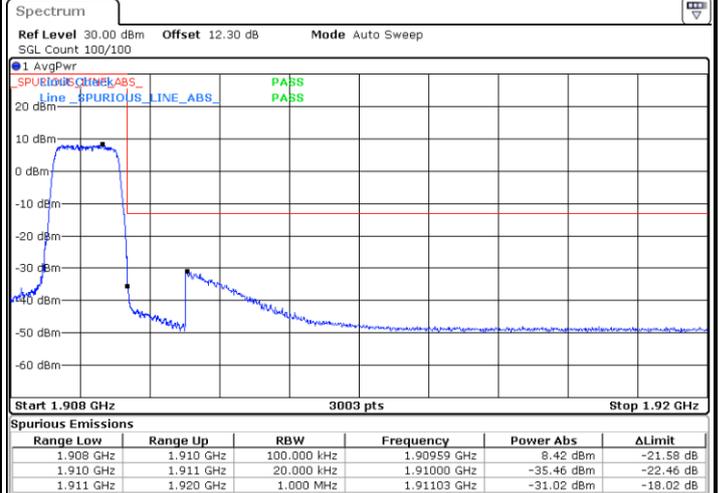
Date: 14.MAR.2025 06:35:24

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:27:08

Highest Band Edge / Full RB

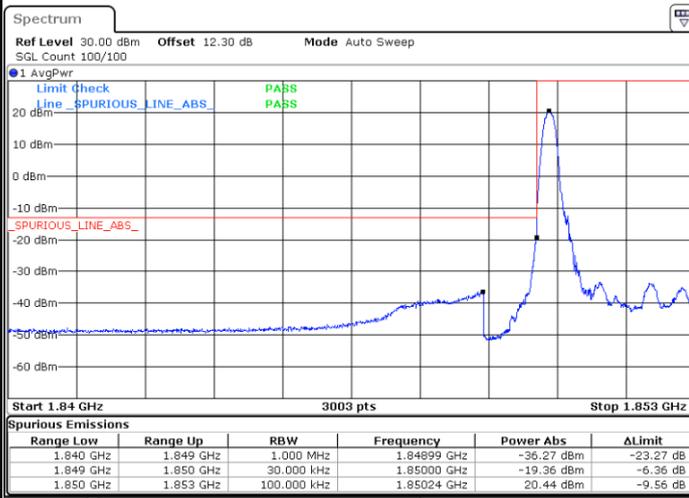


Date: 14.MAR.2025 06:34:46



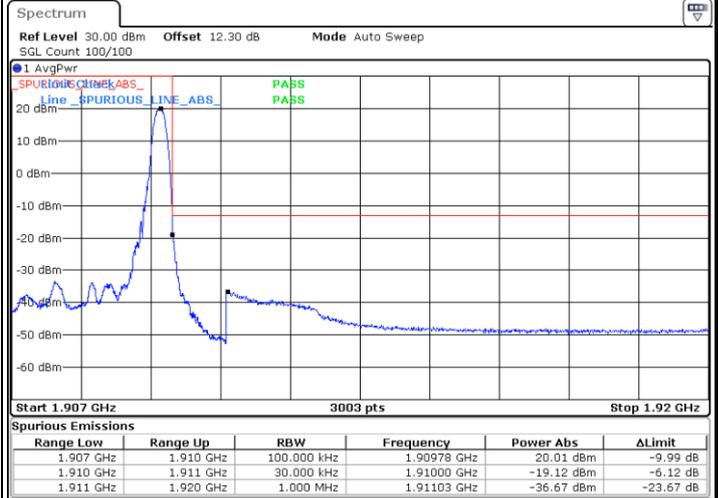
LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB



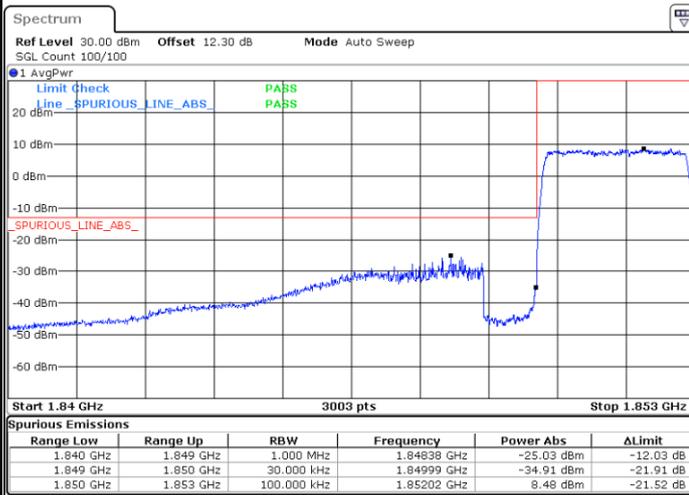
Date: 14.MAR.2025 06:07:30

Highest Band Edge / 1 RB



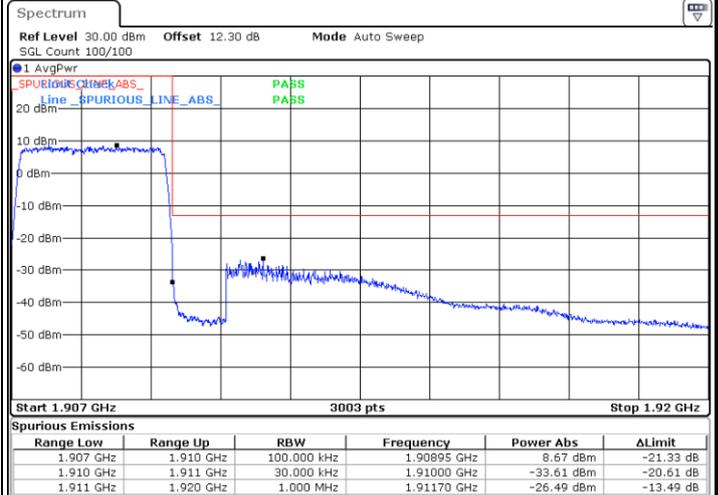
Date: 14.MAR.2025 06:19:40

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:12:08

Highest Band Edge / Full RB

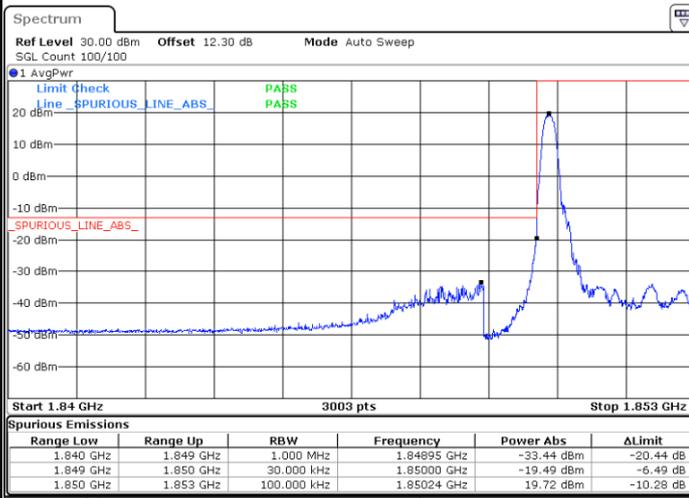


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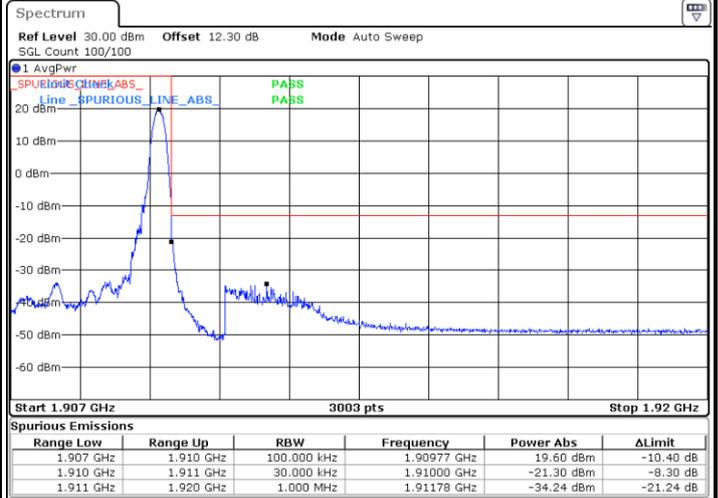
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



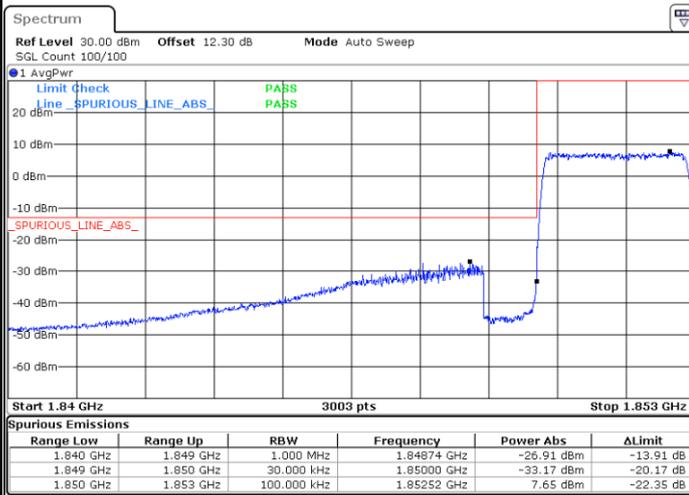
Date: 14.MAR.2025 06:09:05

Highest Band Edge / 1 RB



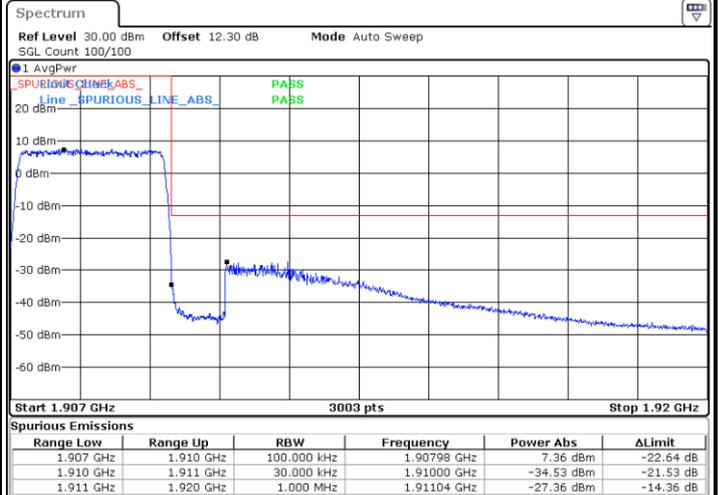
Date: 14.MAR.2025 06:19:09

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:11:35

Highest Band Edge / Full RB

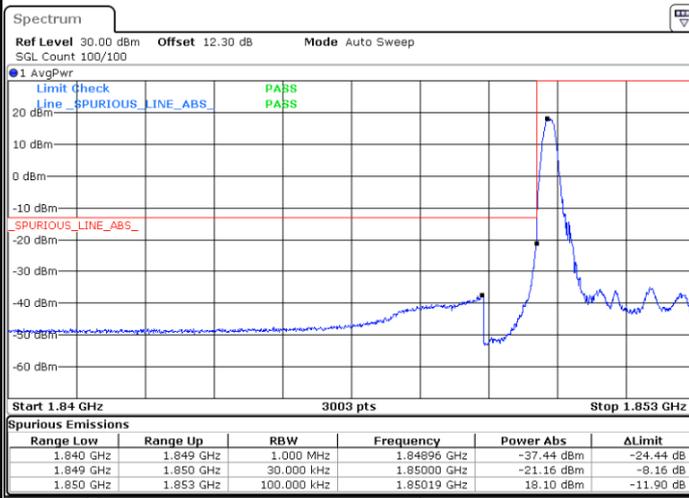


Date: 14.MAR.2025 06:16:26



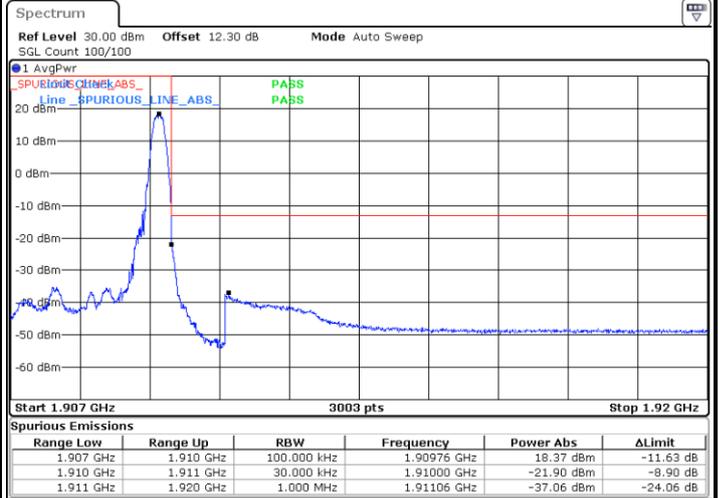
LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



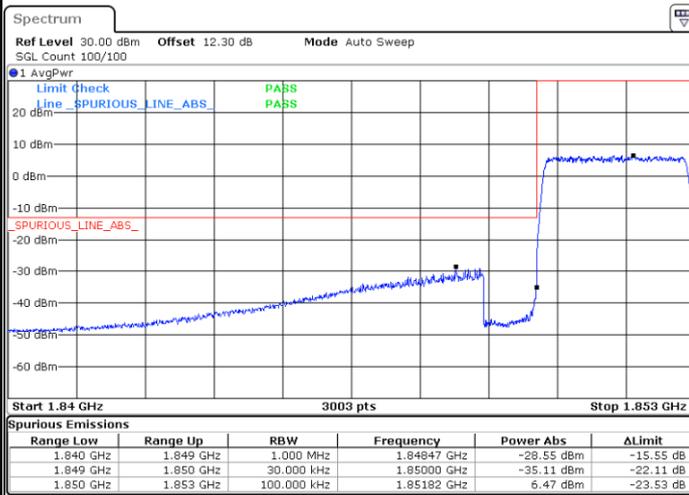
Date: 14.MAR.2025 06:09:35

Highest Band Edge / 1 RB



Date: 14.MAR.2025 06:18:37

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:11:06

Highest Band Edge / Full RB

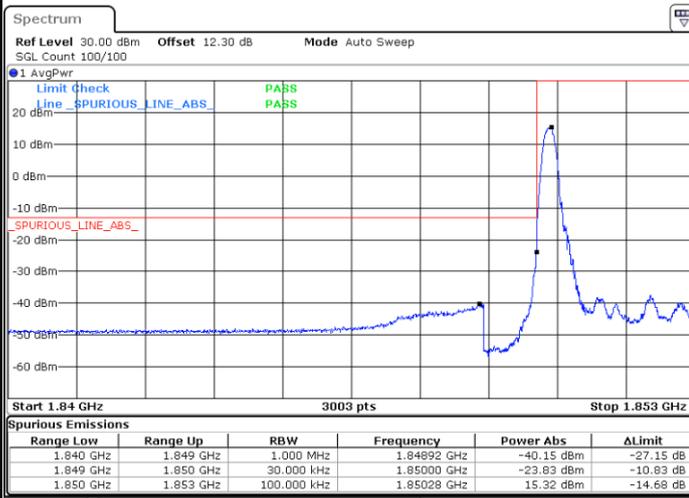


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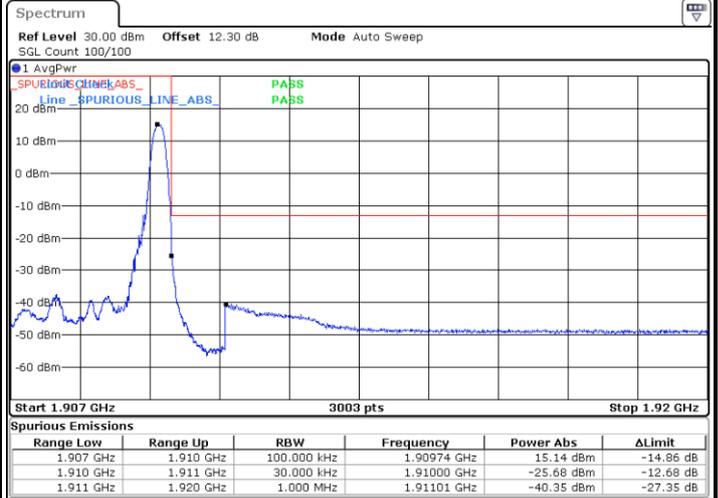
LTE Band 2 / 3MHz / 256QAM

Lowest Band Edge / 1 RB



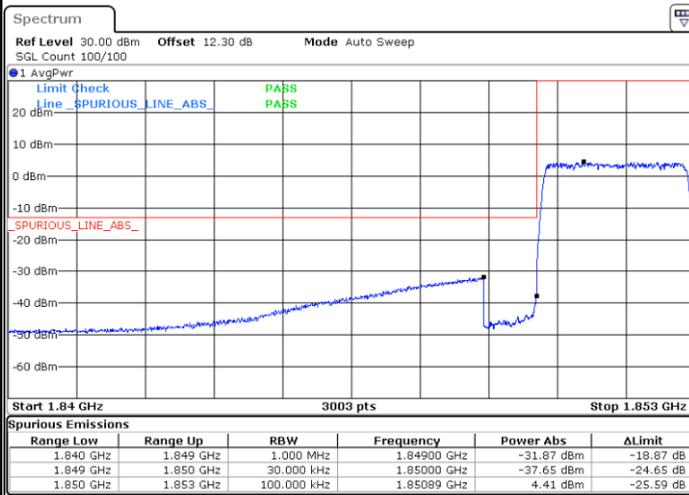
Date: 14.MAR.2025 06:10:03

Highest Band Edge / 1 RB



Date: 14.MAR.2025 06:18:06

Lowest Band Edge / Full RB



Date: 14.MAR.2025 06:10:37

Highest Band Edge / Full RB

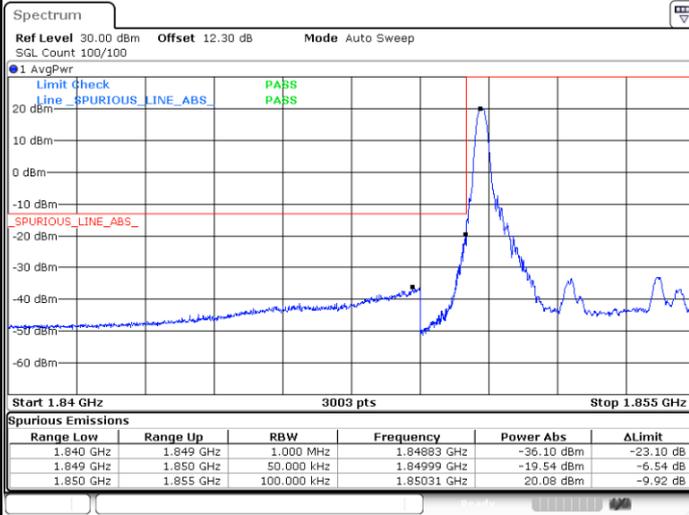


Date: 14.MAR.2025 06:17:30



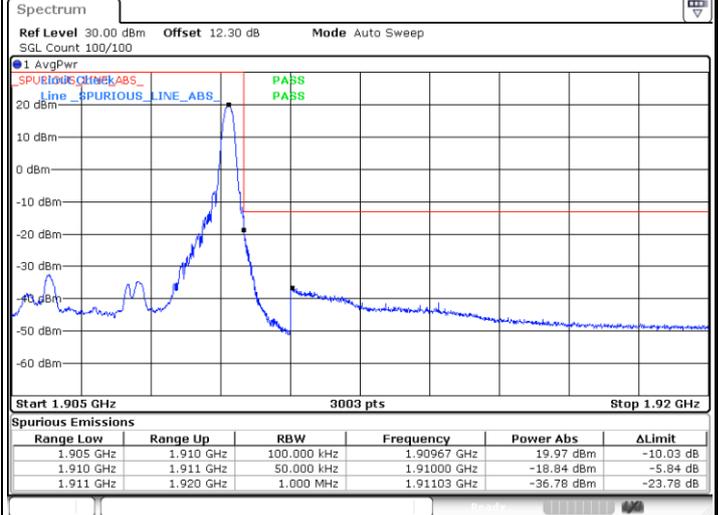
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB



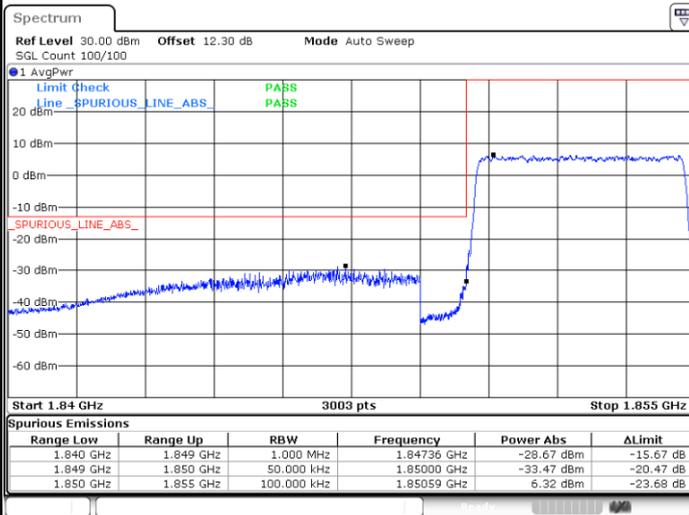
Date: 14.MAR.2025 05:47:25

Highest Band Edge / 1 RB



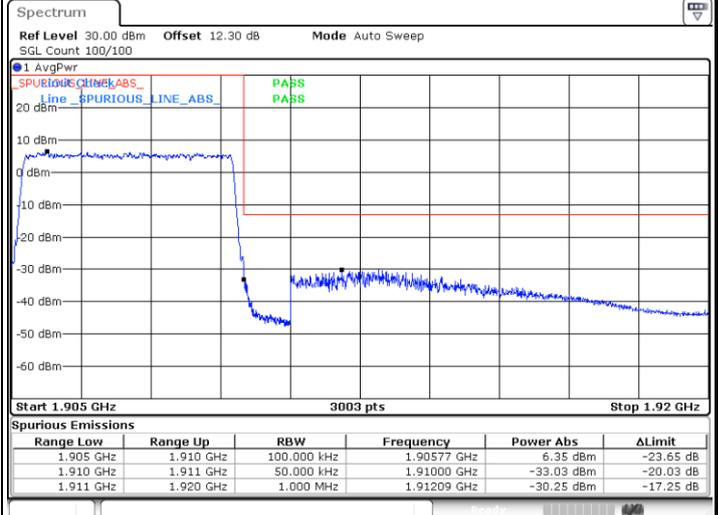
Date: 14.MAR.2025 06:04:17

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:52:36

Highest Band Edge / Full RB

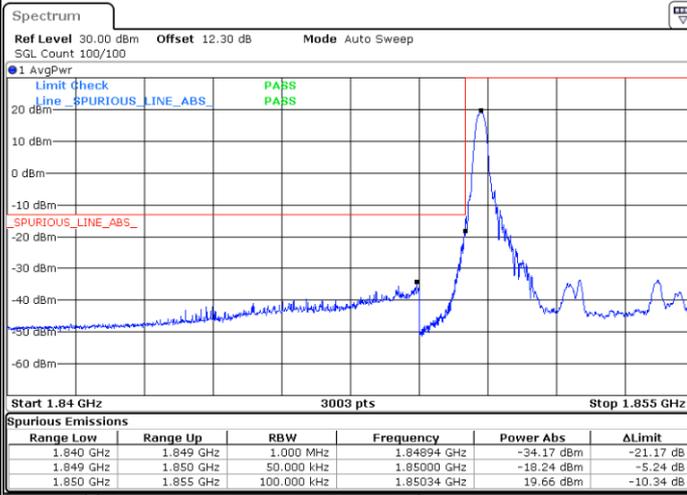


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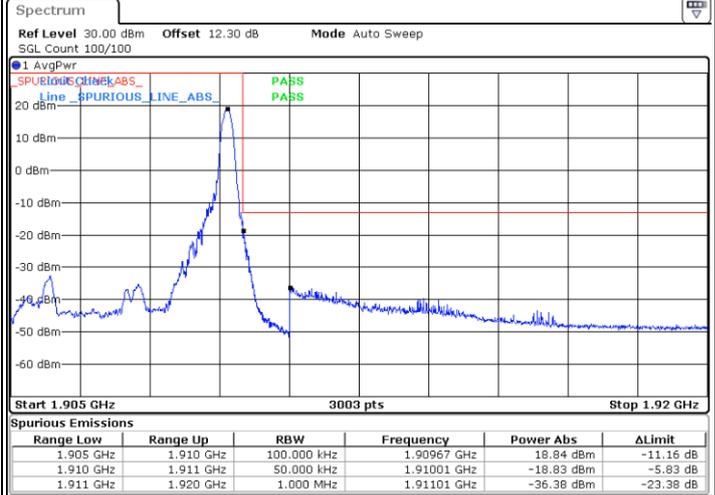
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



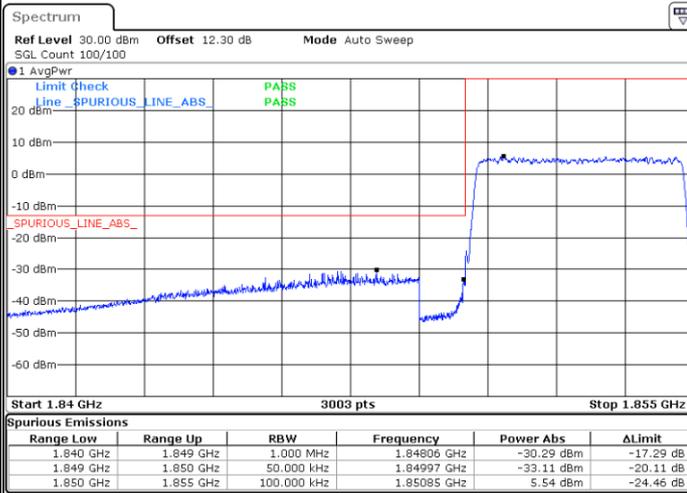
Date: 14.MAR.2025 05:47:55

Highest Band Edge / 1 RB



Date: 14.MAR.2025 06:02:27

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:52:07

Highest Band Edge / Full RB

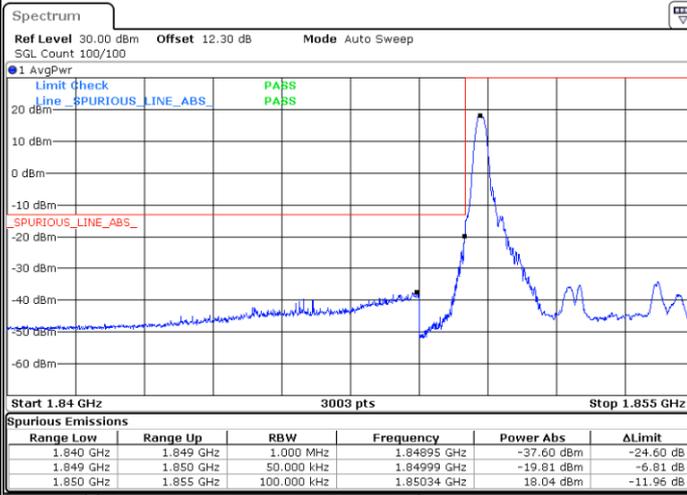


Date: 14.MAR.2025 05:59:21



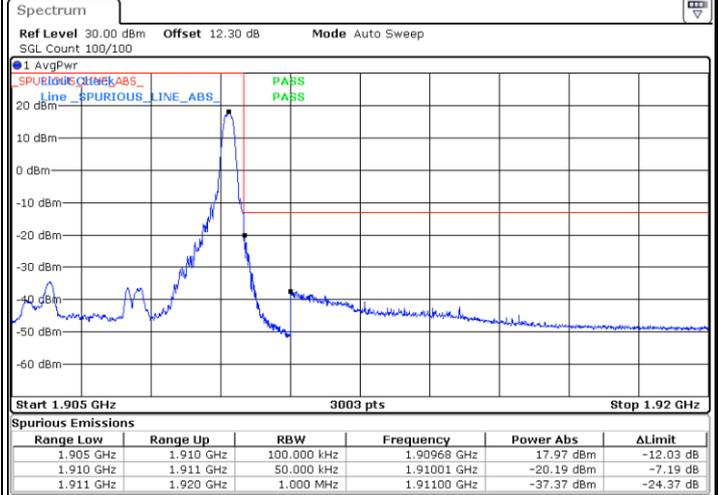
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB



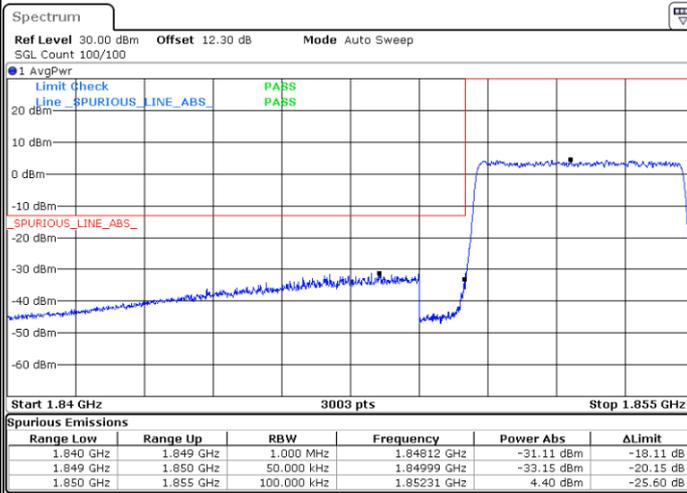
Date: 14.MAR.2025 05:48:29

Highest Band Edge / 1 RB



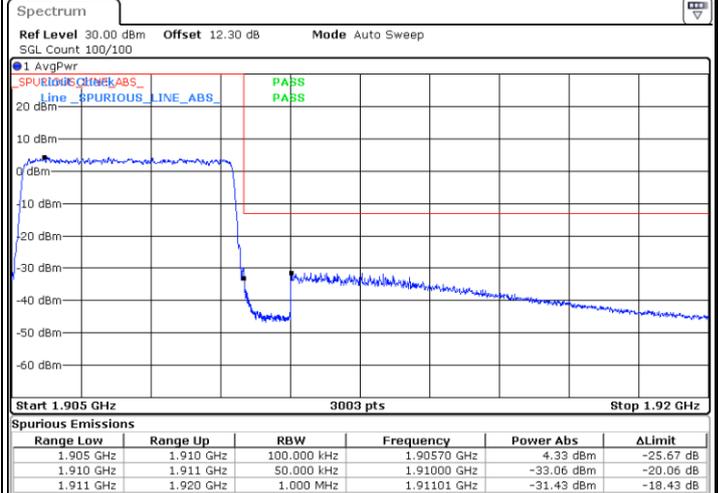
Date: 14.MAR.2025 06:01:55

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:50:33

Highest Band Edge / Full RB

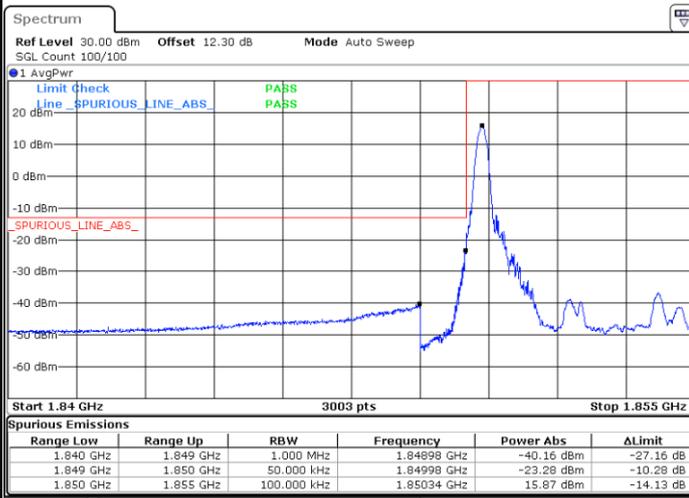


Date: 14.MAR.2025 06:00:13



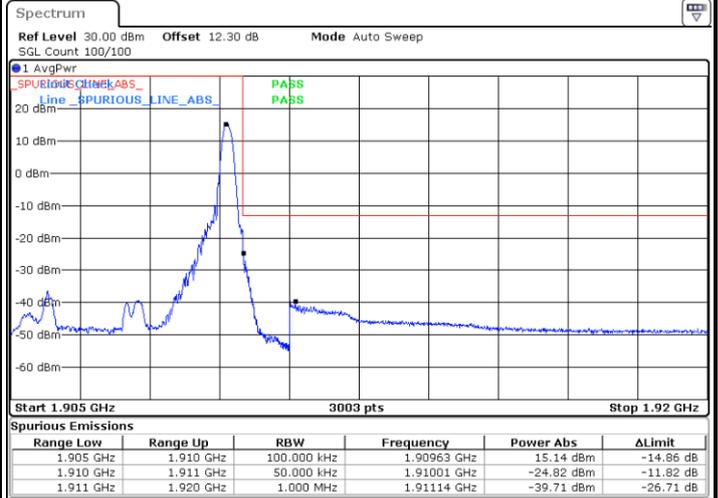
LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / 1RB



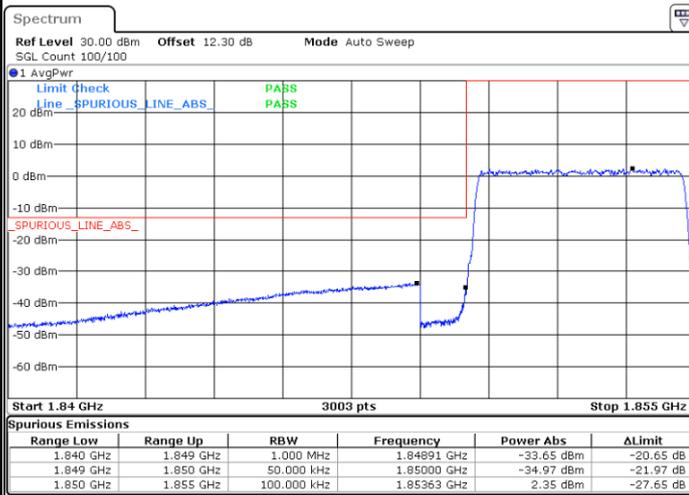
Date: 14.MAR.2025 05:49:21

Highest Band Edge / 1 RB



Date: 14.MAR.2025 06:01:24

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:51:08

Highest Band Edge / Full RB

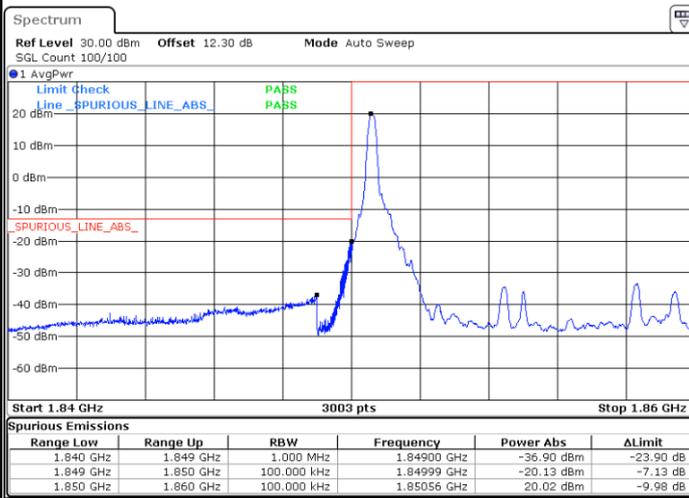


Date: 14.MAR.2025 06:00:43



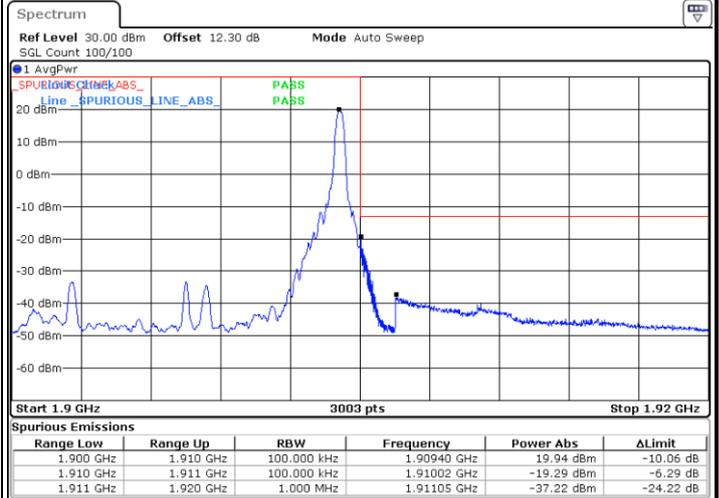
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



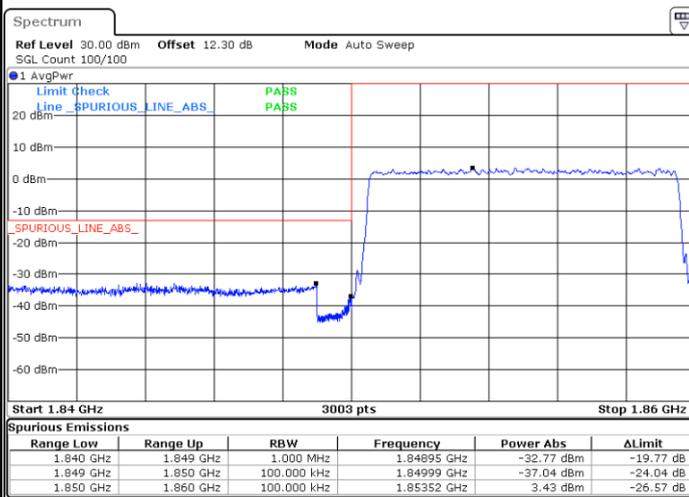
Date: 14.MAR.2025 05:31:33

Highest Band Edge / 1 RB



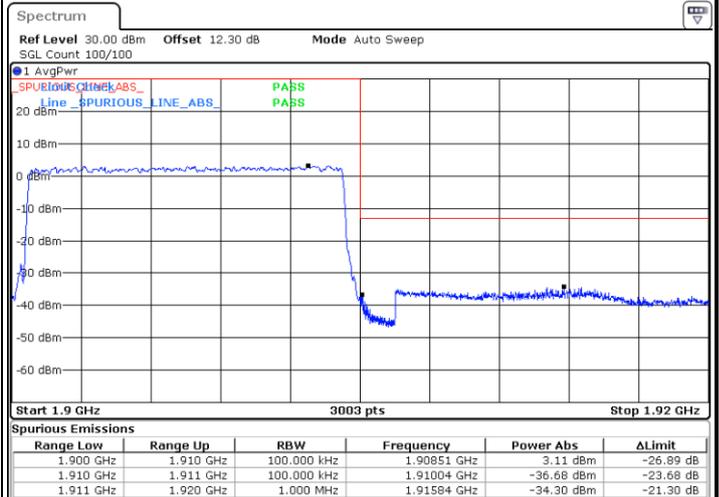
Date: 14.MAR.2025 05:40:35

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:35:13

Highest Band Edge / Full RB

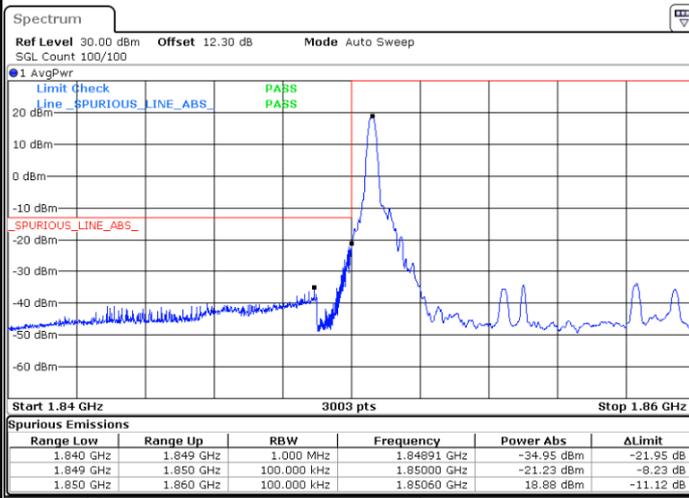


Date: 14.MAR.2025 05:44:19



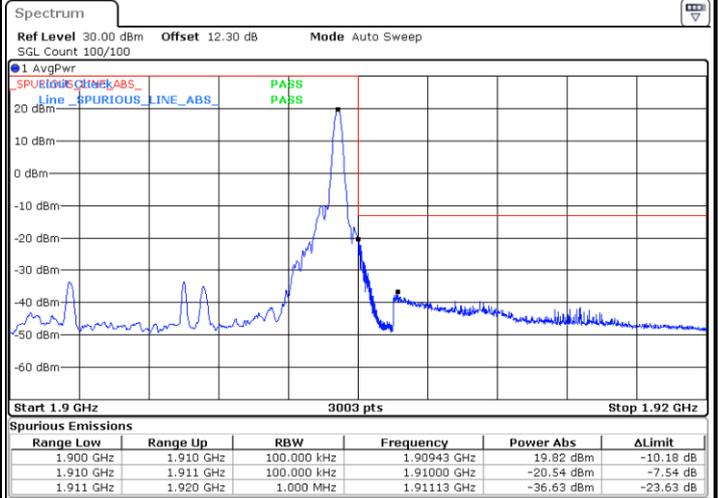
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



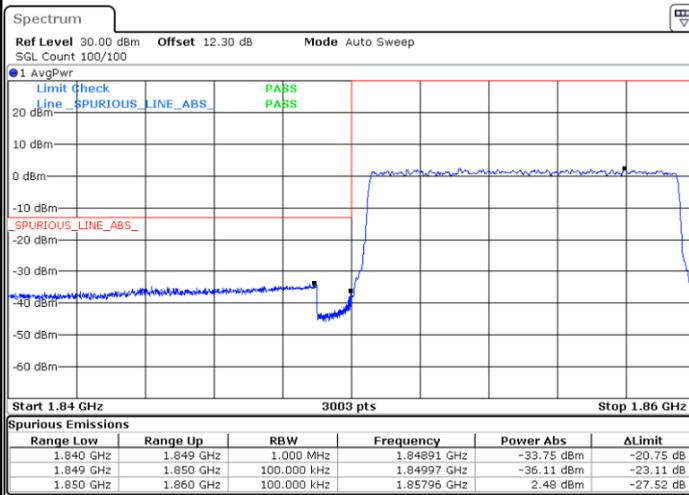
Date: 14.MAR.2025 05:32:04

Highest Band Edge / 1 RB



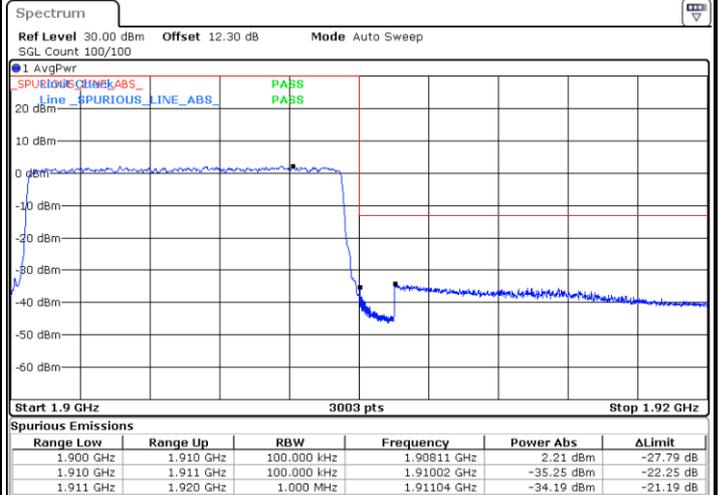
Date: 14.MAR.2025 05:41:08

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:34:45

Highest Band Edge / Full RB

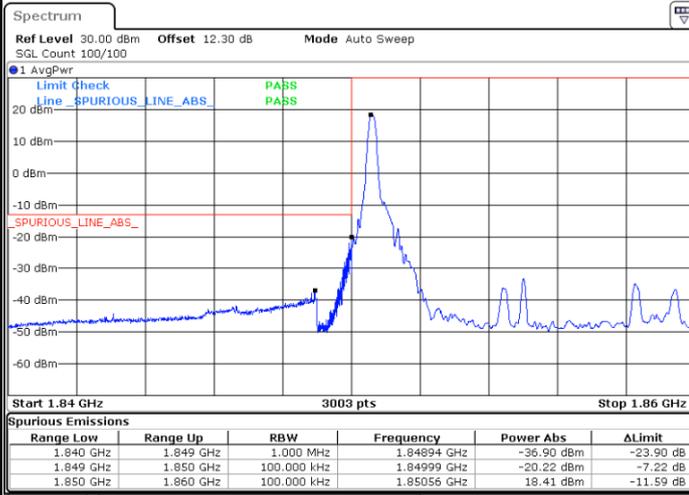


Date: 14.MAR.2025 05:43:47



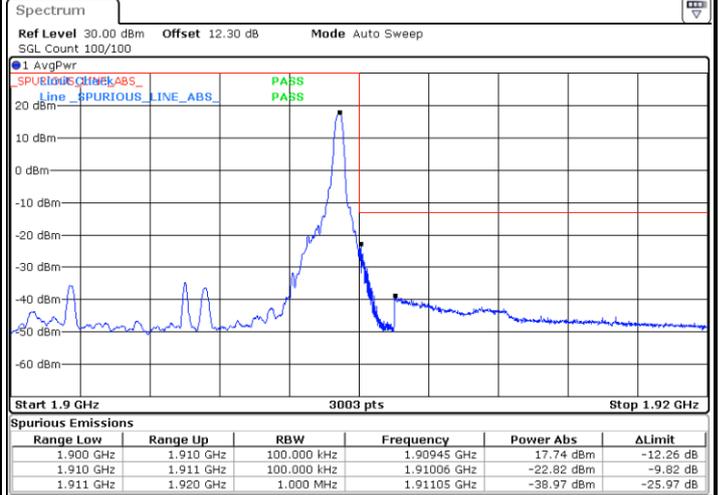
LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



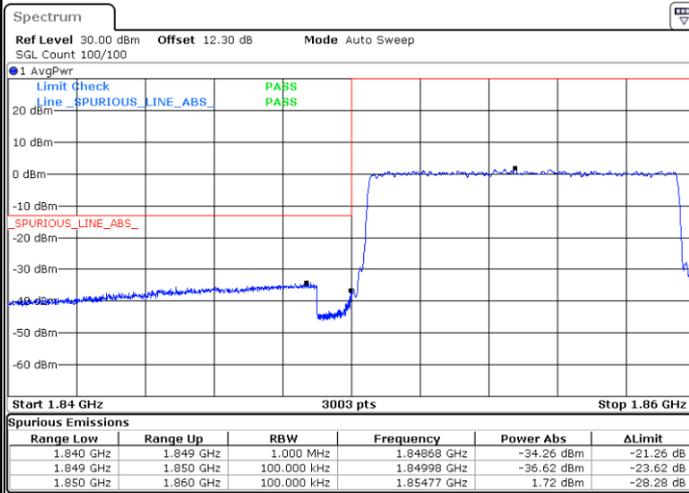
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Highest Band Edge / 1 RB



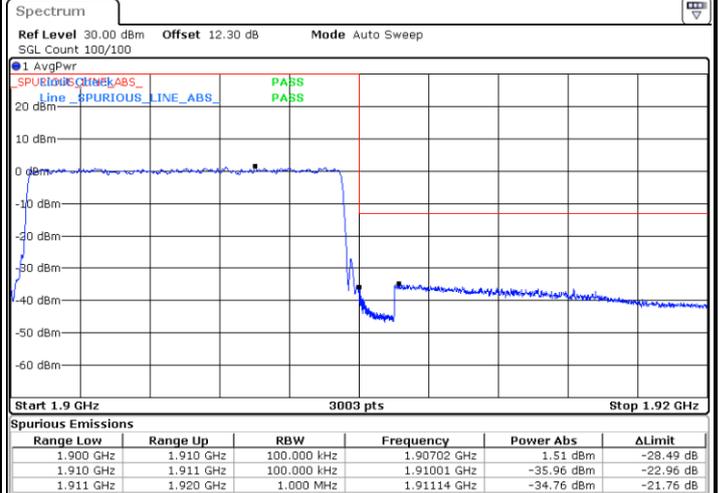
Date: 14.MAR.2025 05:41:41

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:34:15

Highest Band Edge / Full RB

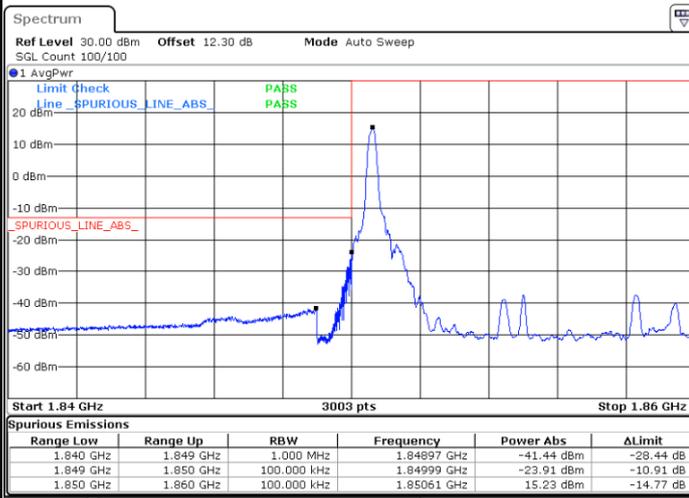


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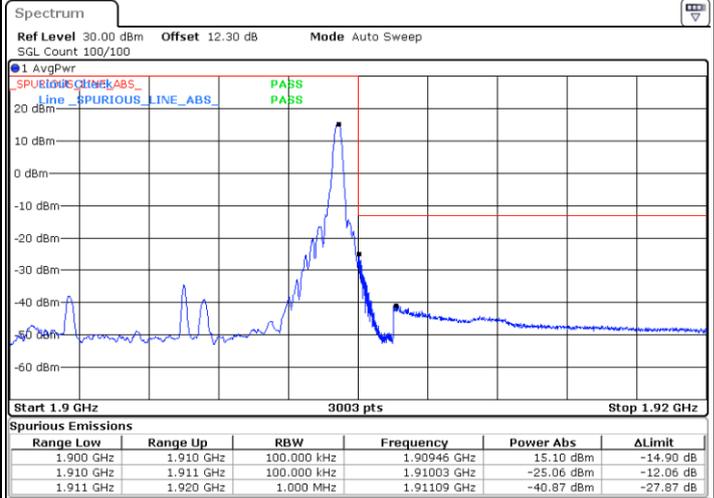
LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



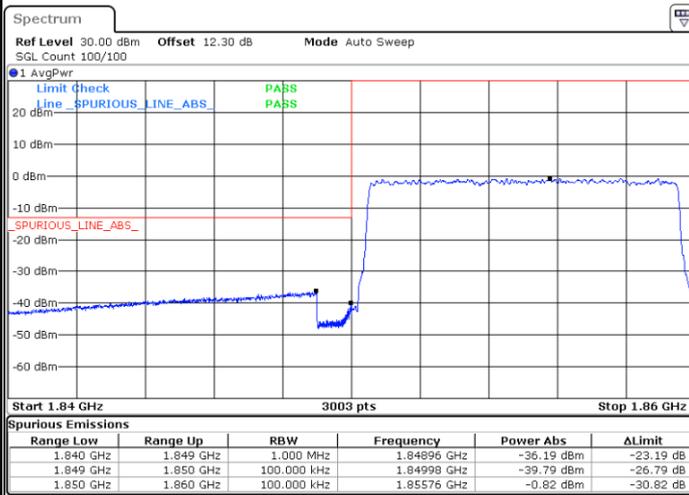
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Highest Band Edge / 1 RB



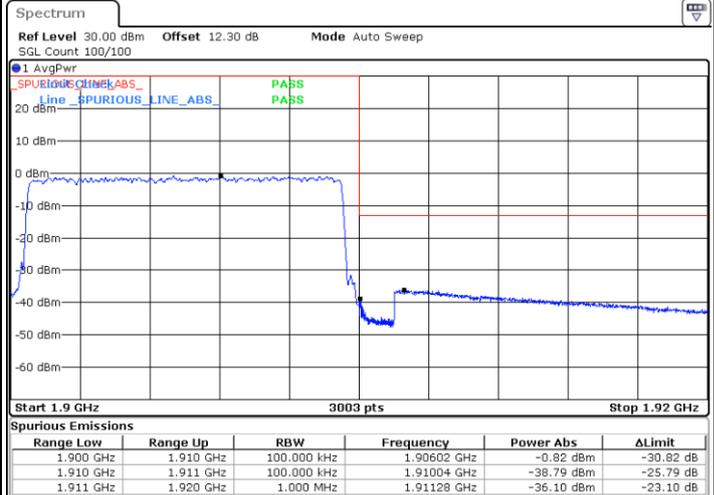
Date: 14.MAR.2025 05:42:12

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:33:45

Highest Band Edge / Full RB

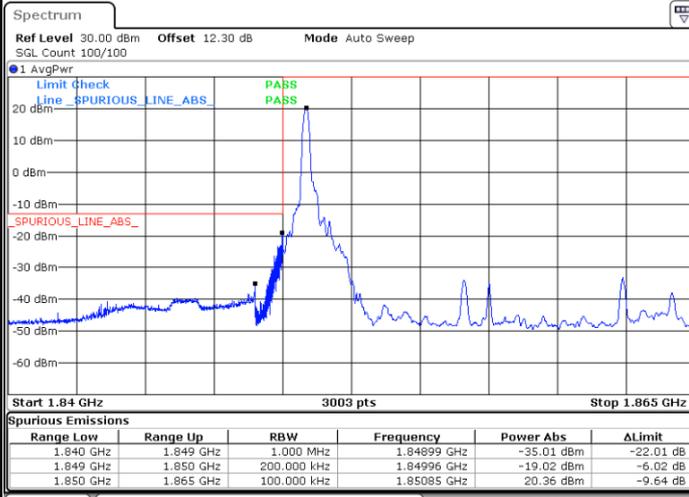


Date: 14.MAR.2025 05:42:46



LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



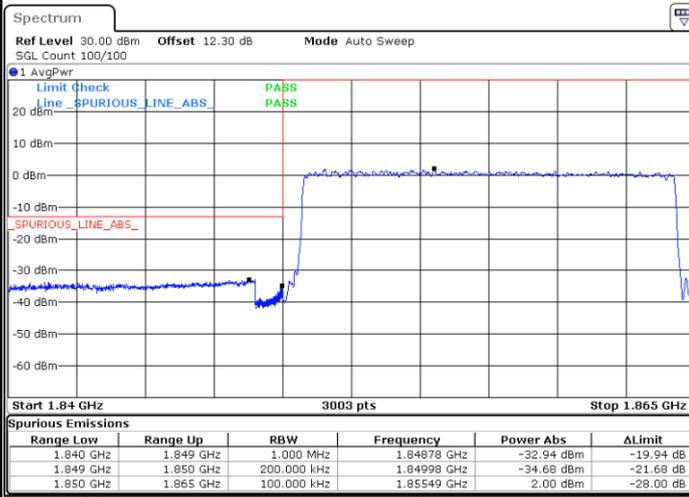
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Highest Band Edge / 1 RB



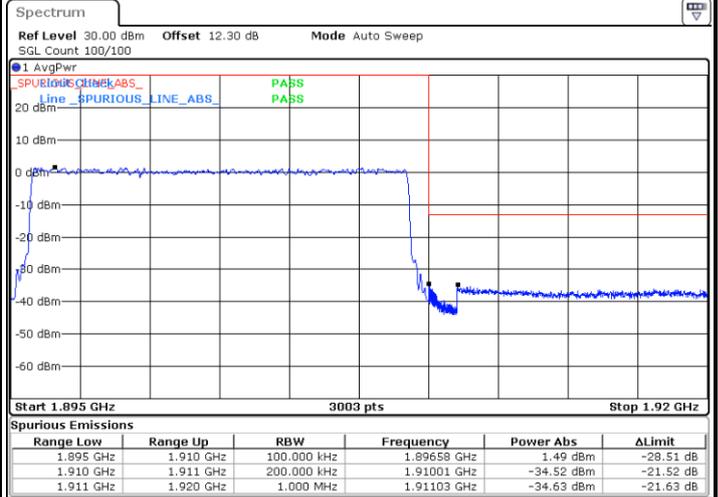
Date: 14.MAR.2025 05:28:10

Lowest Band Edge / Full RB



Date: 14.MAR.2025 05:15:10

Highest Band Edge / Full RB



Date: 14.MAR.2025 05:24:08