FCC RF Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: Xiaomi
MODEL NAME	: 2407FPN8EG
FCC ID	: 2AFZZPN8EG
STANDARD	: 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	: Apr. 19, 2024 ~ May. 15, 2024

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.

Jason Jia

Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

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

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG441610B	Rev. 01	Initial issue of report	May 28, 2024

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) (Band 26)	ERP < 7 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	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(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
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(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 42.58 dB at 7494.00 MHz

Conformity Assessment Condition:

1. 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.
2. 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2407FPN8EG
FCC ID	2AFZZPN8EG
IMEI Code	Conducted: 869018070055282 Radiation: 869018070053741/869018070053758
HW Version	13520N12
SW Version	Xiaomi HyperOS 1.0
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 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 824 MHz ~ 849 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 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 869 MHz ~ 894 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 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz

Maximum Output Power to Antenna	<ANT0> LTE Band 5 : 25.05 dBm LTE Band 26 : 25.39 dBm <ANT1> LTE Band 5 : 24.38 dBm LTE Band 26 : 24.64 dBm <ANT2> LTE Band 2 : 24.10 dBm LTE Band 4 : 25.35 dBm LTE Band 25 : 24.18 dBm LTE Band 66 : 24.13 dBm <ANT3> LTE Band 2 : 23.37 dBm LTE Band 4 : 24.32 dBm LTE Band 25 : 23.49 dBm LTE Band 66 : 23.48 dBm <ANT4> LTE Band 2 : 21.85 dBm LTE Band 4 : 22.55 dBm LTE Band 25 : 22.01 dBm LTE Band 66 : 21.79 dBm <ANT5> LTE Band 2 : 23.60 dBm LTE Band 4 : 24.60 dBm LTE Band 25 : 23.63 dBm LTE Band 66 : 23.69 dBm
Antenna Gain	<ANT0> LTE Band 5/26 : -4.1 dBi <ANT1> LTE Band 5/26 : -3.2 dBi <ANT2> LTE Band 2/25 : -3.71 dBi LTE Band 4/66 : -1.87 dBi <ANT3> LTE Band 2/25 : -1.6 dBi LTE Band 4/66 : -3.2 dBi <ANT4> LTE Band 2/25 : -4.2 dBi LTE Band 4/66 : -12.6 dBi <ANT5> LTE Band 2/25 : -2.1 dBi LTE Band 4/66 : -2.1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Antenna 1 for LTE Band 5/26, Antenna 2 for LTE Band 4/66, and Antenna 3 for LTE Band 2/25 are shown in the report.
2. LTE Band 4/5/66 support two PAs, both the PA are full tested, only the PA with maximum output power are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/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)
20	1860.0 ~ 1900.0	0.1503	17M9G7D	0.1213	17M9W7D
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)
20	1860.0 ~ 1905.0	0.1545	17M9G7D	0.1199	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)
20	1720.0 ~ 1745.0	0.2228	18M0G7D	0.1897	17M9W7D
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)
20	1720.0 ~ 1770.0	0.1683	17M9G7D	0.1413	18M0W7D
LTE Band 5		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
10	829.0 ~ 844.0	0.0800	9M01G7D	0.0678	9M01W7D
LTE Band 26		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
15	831.5 ~ 841.5	0.0838	13M6G7D	0.0703	13M5W7D
CH26790	824.0	0.0849	13M4G7D	0.0634	13M4W7D

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
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.

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

Test Firm	Sporton International 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.**
	03CH04-SZ	CN1256	421272

1.8 Test Software

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

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 2, 22(H), 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

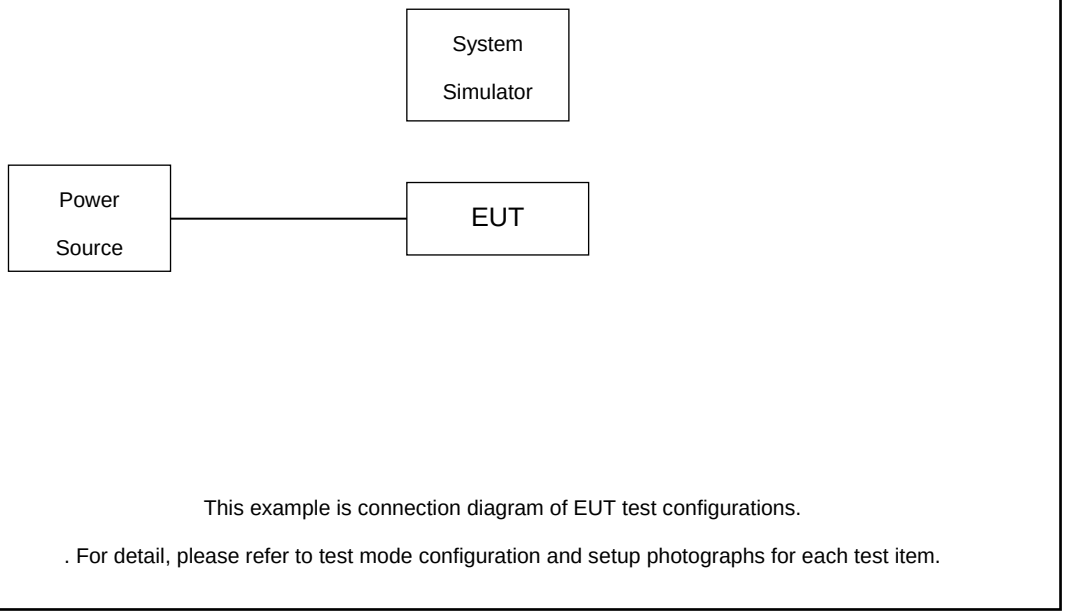
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X/Y 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	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	4						v	v	v	v				v		v	
	5				v	-	-	v	v	v				v		v	
	25						v	v	v	v				v		v	
	26					v	-	v	v	v				v		v	
	66						v	v	v	v				v		v	
26dB and 99% Bandwidth	4	v	v	v	v	v	v	v	v					v		v	
	5	v	v	v	v	-	-	v	v					v		v	
	25	v	v	v	v	v	v	v	v					v		v	
	26	v	v	v	v	v	-	v	v					v		v	
	66	v	v	v	v	v	v	v	v					v		v	
Conducted Band Edge	4	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
	25	v	v	v	v	v	v	v	v	v		v		v	v		v
	26	v	v	v	v	v	-	v	v	v		v		v	v		v
	66	v	v	v	v	v	v	v	v	v		v		v	v		v

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	4	v	v	v	v	v	v	v				v			v	v	v
	5	v	v	v	v	-	-	v				v			v	v	v
	25	v	v	v	v	v	v	v				v			v	v	v
	26	v	v	v	v	v	-	v				v			v	v	v
	66	v	v	v	v	v	v	v				v			v	v	v
Frequency Stability	4				v			v						v		v	
	5				v	-	-	v						v		v	
	25				v			v						v		v	
	26				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	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	25	Worst Case														v	
	26	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	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 :

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

= 4.5 + 10 = 14.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

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

LTE Band 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

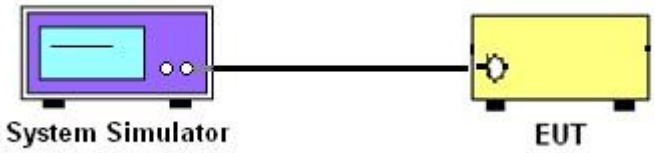
3 Conducted Test Items

3.1 Measuring Instruments

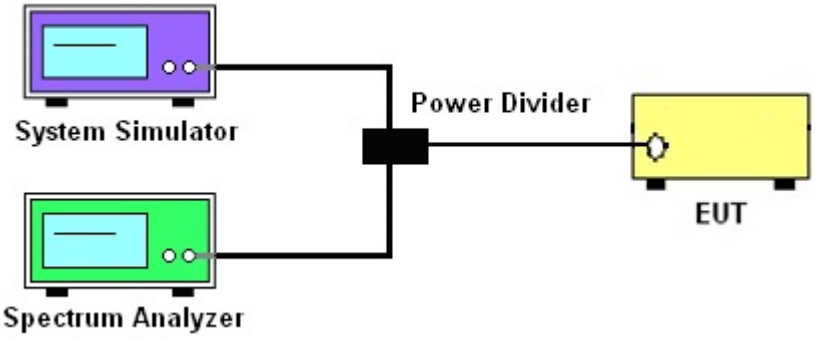
See list of measuring instruments of this test report.

3.2 Test Setup

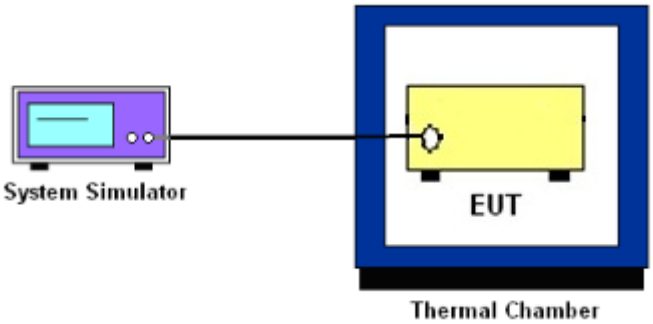
Conducted Output Power



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



Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

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.

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

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.

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

Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(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.

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 >= 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:

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

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

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

Description of Conducted Spurious Emission Measurement

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

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

Test Procedures

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

3.9 Frequency Stability

Description of Frequency Stability Measurement

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

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.

Test Procedures for Voltage Variation

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

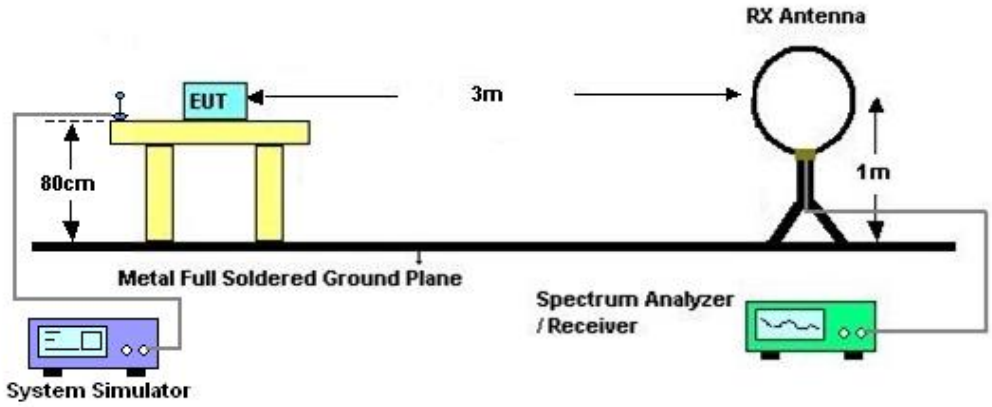
4 Radiated Test Items

4.1 Measuring Instruments

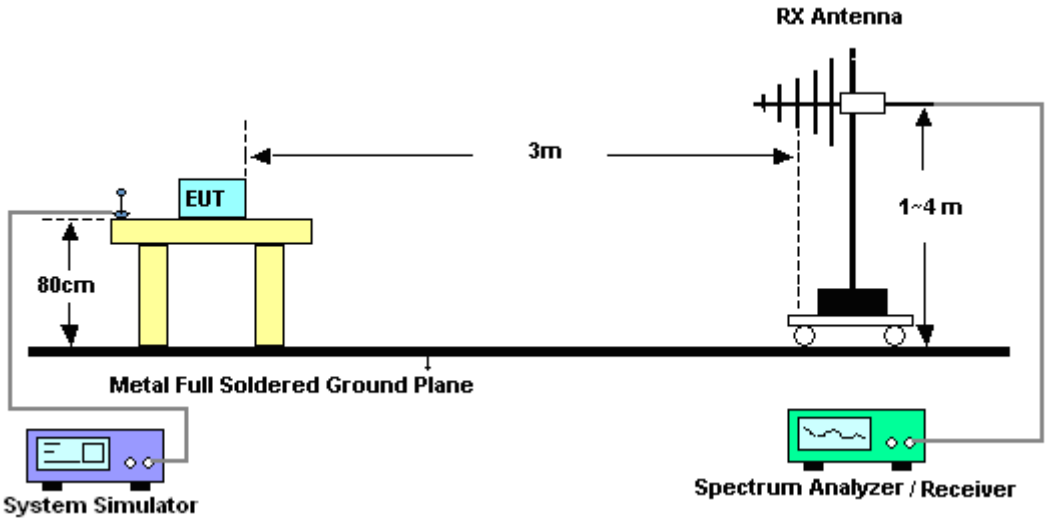
See list of measuring instruments of this test report.

4.2 Test Setup

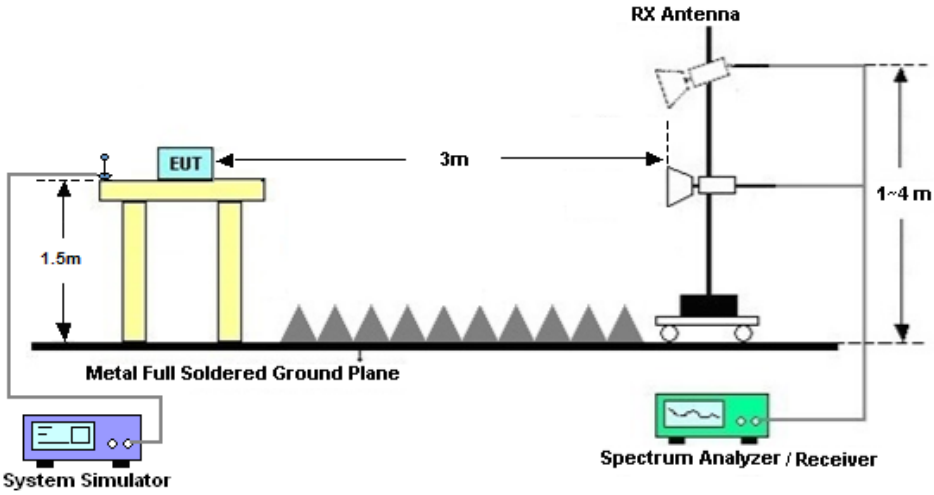
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



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

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.

Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Apr. 19, 2024~ May 15, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Apr. 19, 2024~ May 15, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Apr. 19, 2024~ May 15, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Power Divider	SOLVANG TECHNOLOY	STI08-0055	-	Max 40GHz	Mar. 20, 2024	Apr. 19, 2024~ May 15, 2024	Mar. 19, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Apr. 19, 2024~ May 15, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Apr. 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Apr. 24, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 24, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Apr. 24, 2024	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Apr. 24, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Apr. 24, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Apr. 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 24, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Apr. 24, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Apr. 24, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 24, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 24, 2024	NCR	Radiation (03CH04-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))	2.8 dB

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

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

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

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

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

LTE Band 2_ANT.3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W) < 2W, Pass		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	23.25	23.37	23.28	0.1462	0.1503	0.1472
20	QPSK	1	49	23.16	23.30	23.20	0.1432	0.1479	0.1445
20	QPSK	1	99	23.16	23.33	23.27	0.1432	0.1489	0.1469
20	QPSK	50	0	22.33	22.47	22.36	0.1183	0.1222	0.1191
20	QPSK	50	24	22.20	22.38	22.27	0.1148	0.1197	0.1167
20	QPSK	50	50	22.26	22.44	22.28	0.1164	0.1213	0.1169
20	QPSK	100	0	22.24	22.40	22.23	0.1159	0.1202	0.1156
20	16QAM	1	0	22.28	22.44	22.28	0.1169	0.1213	0.1169
20	64QAM	1	0	21.23	21.37	21.26	0.0918	0.0948	0.0925
20	256QAM	1	0	18.11	18.32	18.22	0.0448	0.0470	0.0459
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	23.19	23.33	23.19	0.1442	0.1489	0.1442
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	23.19	23.29	23.21	0.1442	0.1476	0.1449
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	23.18	23.30	23.24	0.1439	0.1479	0.1459
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	23.21	23.29	23.21	0.1449	0.1476	0.1449
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	23.18	23.28	23.21	0.1439	0.1472	0.1449

LTE Band 4_ANT.2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W) < 1W, Pass		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	25.22	25.35	25.33	0.2163	0.2228	0.2218
20	QPSK	1	49	24.94	25.11	24.99	0.2028	0.2109	0.2051
20	QPSK	1	99	25.07	25.20	25.09	0.2089	0.2153	0.2099
20	QPSK	50	0	24.42	24.55	24.41	0.1799	0.1854	0.1795
20	QPSK	50	24	24.28	24.39	24.24	0.1742	0.1786	0.1726
20	QPSK	50	50	24.30	24.42	24.32	0.1750	0.1799	0.1758
20	QPSK	100	0	24.29	24.43	24.33	0.1746	0.1803	0.1762
20	16QAM	1	0	24.53	24.65	24.48	0.1845	0.1897	0.1824
20	64QAM	1	0	23.41	23.56	23.48	0.1426	0.1476	0.1449
20	256QAM	1	0	20.27	20.45	20.33	0.0692	0.0721	0.0701
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	25.09	25.18	25.10	0.2099	0.2143	0.2104
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	24.97	25.21	25.08	0.2042	0.2158	0.2094
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	24.99	25.20	25.16	0.2051	0.2153	0.2133
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	25.00	25.19	25.18	0.2056	0.2148	0.2143
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	25.05	25.21	25.11	0.2080	0.2158	0.2109

LTE Band 5_ANT.1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W) < 7W, Pass		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	24.31	24.38	24.36	0.0787	0.0800	0.0796
10	QPSK	1	25	24.28	24.30	24.35	0.0782	0.0785	0.0794
10	QPSK	1	49	24.27	24.30	24.35	0.0780	0.0785	0.0794
10	QPSK	25	0	23.51	23.60	23.54	0.0655	0.0668	0.0659
10	QPSK	25	12	23.42	23.55	23.52	0.0641	0.0661	0.0656
10	QPSK	25	25	23.41	23.50	23.38	0.0640	0.0653	0.0635
10	QPSK	50	0	23.50	23.57	23.47	0.0653	0.0664	0.0649
10	16QAM	1	0	23.49	23.66	23.60	0.0652	0.0678	0.0668
10	64QAM	1	0	22.38	22.45	22.34	0.0505	0.0513	0.0500
10	256QAM	1	0	19.34	19.47	19.38	0.0251	0.0258	0.0253
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	24.20	24.23	24.18	0.0767	0.0773	0.0764
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	24.21	24.22	24.25	0.0769	0.0771	0.0776
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	24.15	24.25	24.24	0.0759	0.0776	0.0774

LTE Band 25_ANT.3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W) < 2W, Pass		
Channel				26140	26340	26590			
Frequency (MHz)				1860	1880	1905	L	M	H
20	QPSK	1	0	23.35	23.49	23.45	0.1496	0.1545	0.1531
20	QPSK	1	49	23.34	23.40	23.35	0.1493	0.1514	0.1496
20	QPSK	1	99	23.26	23.39	23.44	0.1466	0.1510	0.1528
20	QPSK	50	0	22.13	22.31	22.21	0.1130	0.1178	0.1151
20	QPSK	50	24	22.03	22.23	22.15	0.1104	0.1156	0.1135
20	QPSK	50	50	22.05	22.28	22.20	0.1109	0.1169	0.1148
20	QPSK	100	0	22.18	22.32	22.27	0.1143	0.1180	0.1167
20	16QAM	1	0	22.20	22.39	22.34	0.1148	0.1199	0.1186
20	64QAM	1	0	21.33	21.56	21.51	0.0940	0.0991	0.0979
20	256QAM	1	0	18.39	18.54	18.48	0.0478	0.0494	0.0488
Channel				26115	26340	26615	EIRP(W)		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	23.30	23.43	23.36	0.1479	0.1524	0.1500
Channel				26090	26340	26640	EIRP(W)		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	23.27	23.43	23.34	0.1469	0.1524	0.1493
Channel				26065	26340	26665	EIRP(W)		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	23.30	23.45	23.39	0.1479	0.1531	0.1510
Channel				26055	26340	26675	EIRP(W)		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	23.23	23.40	23.36	0.1455	0.1514	0.1500
Channel				26047	26340	26683	EIRP(W)		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	23.25	23.43	23.40	0.1462	0.1524	0.1514

LTE Band 26_ANT.1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W) < 7W, Pass			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	24.53	24.58	24.57	24.55	0.0828	0.0838	0.0836	0.0832
15	QPSK	1	37	24.64	24.52	24.46	24.53	0.0849	0.0826	0.0815	0.0828
15	QPSK	1	74	24.61	24.43	24.35	24.54	0.0843	0.0809	0.0794	0.0830
15	QPSK	36	0	23.50	23.58	23.48	23.41	0.0653	0.0665	0.0650	0.0640
15	QPSK	36	20	23.63	23.52	23.42	23.40	0.0673	0.0656	0.0641	0.0638
15	QPSK	36	39	23.55	23.50	23.38	23.36	0.0661	0.0653	0.0635	0.0632
15	QPSK	75	0	23.45	23.73	23.79	23.31	0.0646	0.0689	0.0698	0.0625
15	16QAM	1	0	23.37	23.53	23.59	23.82	0.0634	0.0658	0.0667	0.0703
15	64QAM	1	0	22.84	22.66	22.70	22.82	0.0561	0.0538	0.0543	0.0558
15	256QAM	1	0	19.75	19.57	19.70	19.87	0.0275	0.0264	0.0272	0.0283
Channel				26790	26840	26915	26990	ERP(W)			
Frequency (MHz)				824	829	836.5	844	Straddle Ch	L	M	H
10	QPSK	1	0	24.52	24.59	24.53	24.46	0.0826	0.0839	0.0828	0.0815
Channel				26790	26815	26915	27015	ERP(W)			
Frequency (MHz)				824	826.5	836.5	846.5	Straddle Ch	L	M	H
5	QPSK	1	0	24.55	24.60	24.53	24.36	0.0832	0.0841	0.0828	0.0796
Channel				26790	26815	26915	27025	ERP(W)			
Frequency (MHz)				824	825.5	836.5	847.5	Straddle Ch	L	M	H
3	QPSK	1	0	23.68	24.56	24.44	24.29	0.0681	0.0834	0.0811	0.0783
Channel				26790	26797	26915	27033	ERP(W)			
Frequency (MHz)				824	824.7	836.5	848.3	Straddle Ch	L	M	H
1.4	QPSK	1	0	24.63	24.50	24.33	24.43	0.0847	0.0822	0.0791	0.0809

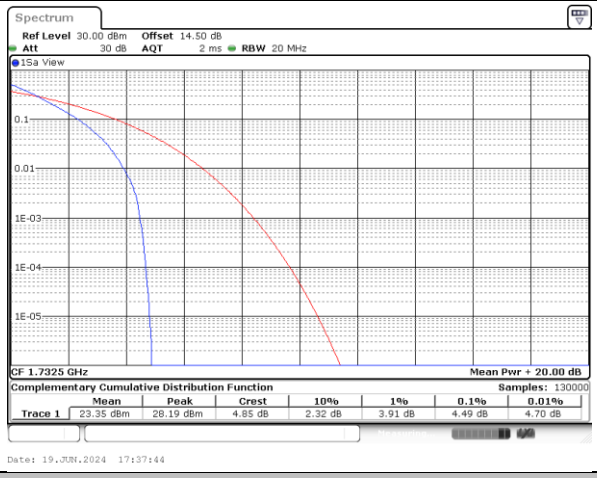
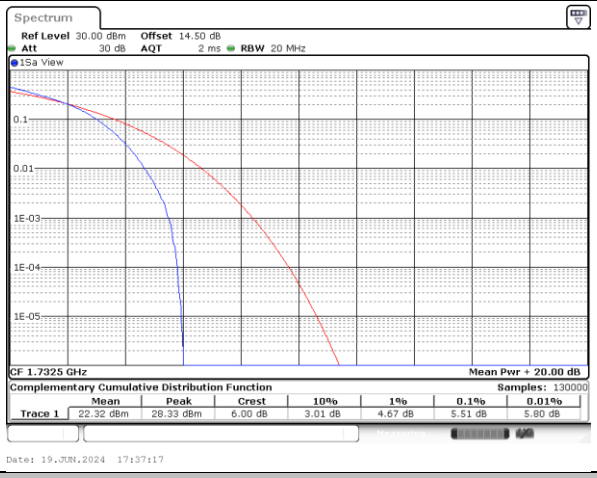
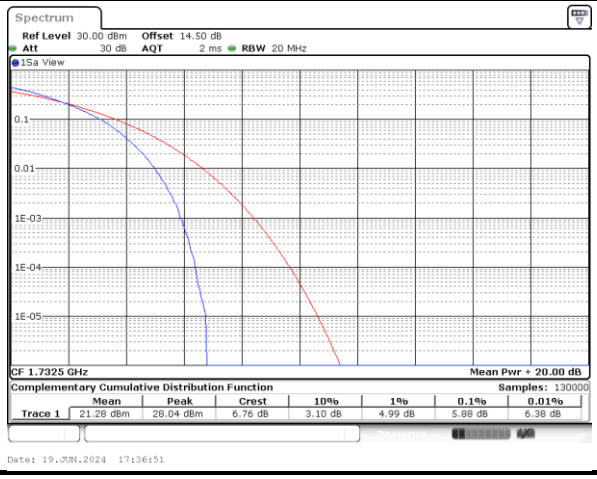
LTE Band 66_ANT.2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W) < 1W, Pass		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	24.04	24.13	24.07	0.1648	0.1683	0.1660
20	QPSK	1	49	24.01	24.04	24.07	0.1637	0.1648	0.1660
20	QPSK	1	99	23.97	24.03	24.02	0.1622	0.1644	0.1641
20	QPSK	50	0	23.09	23.26	23.12	0.1324	0.1377	0.1334
20	QPSK	50	24	23.12	23.24	23.10	0.1334	0.1371	0.1327
20	QPSK	50	50	22.96	23.10	22.96	0.1285	0.1327	0.1285
20	QPSK	100	0	23.14	23.24	23.11	0.1340	0.1371	0.1330
20	16QAM	1	0	23.24	23.37	23.26	0.1371	0.1413	0.1377
20	64QAM	1	0	22.06	22.25	22.19	0.1045	0.1091	0.1076
20	256QAM	1	0	19.20	19.30	19.14	0.0541	0.0553	0.0533
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	24.00	24.09	24.04	0.1633	0.1667	0.1648
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	24.01	24.07	24.02	0.1637	0.1660	0.1641
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	23.99	24.08	24.04	0.1629	0.1663	0.1648
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	24.01	24.05	24.01	0.1637	0.1652	0.1637
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	24.00	24.08	24.02	0.1633	0.1663	0.1641

LTE Band 4 (Main PA)

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.49	5.51	5.88	PASS

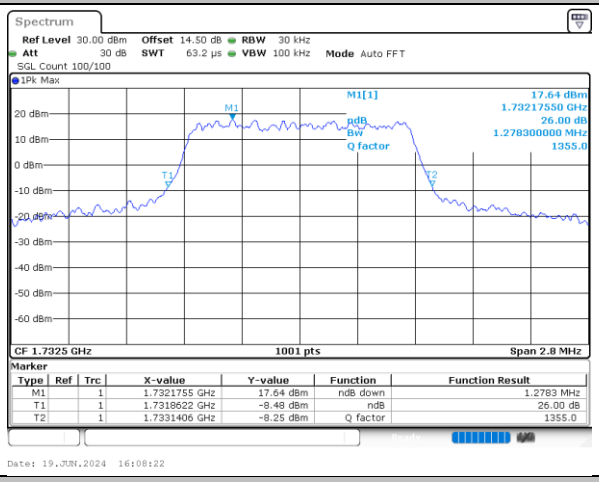
LTE Band 4 / 20MHz / QPSK	LTE Band 4 / 20MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 4 / 20MHz / 64QAM	NA
Middle Channel / Full RB	
	

26dB Bandwidth

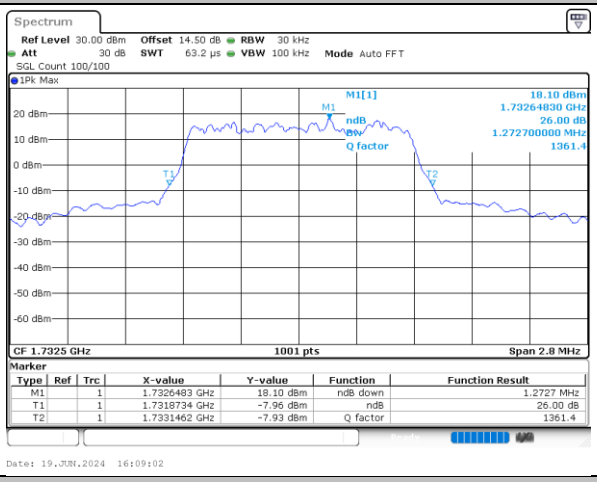
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.27	2.98	2.97	4.89	4.95	9.87	9.63	14.36	14.39	18.86	18.78

LTE Band 4

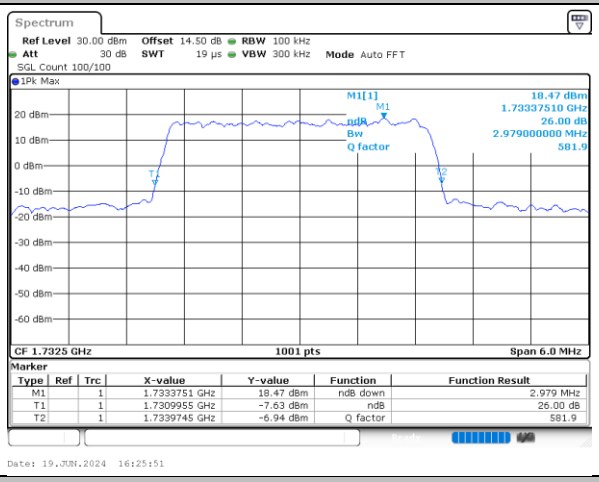
Middle Channel / 1.4MHz / QPSK



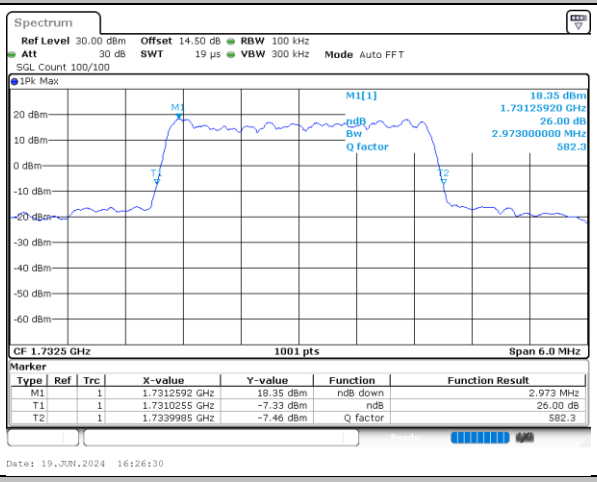
Middle Channel / 1.4MHz / 16QAM



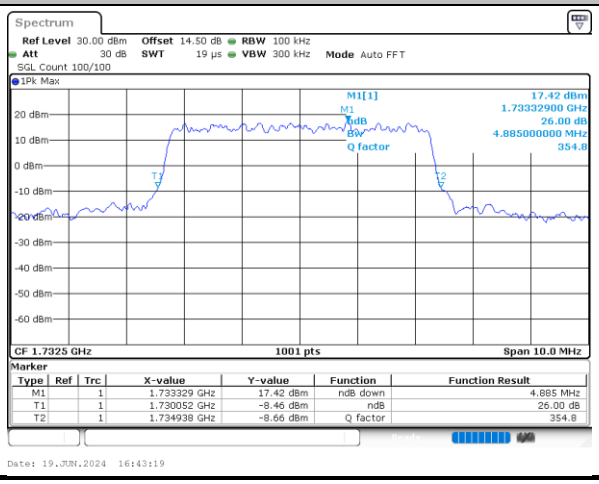
Middle Channel / 3MHz / QPSK



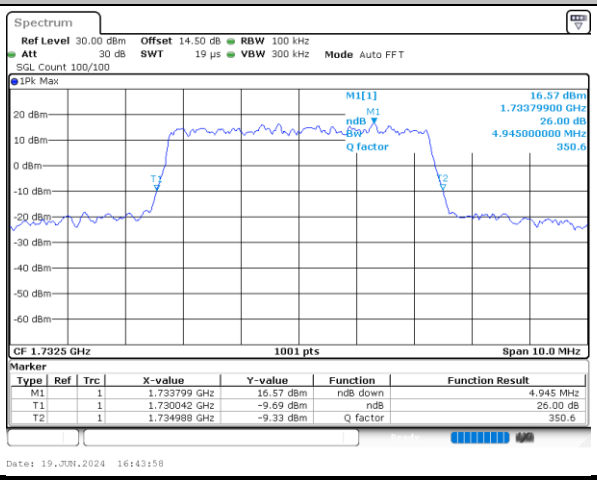
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK

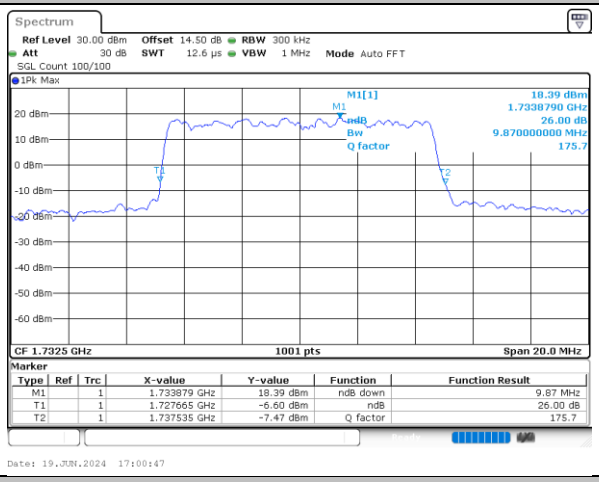


Middle Channel / 5MHz / 16QAM

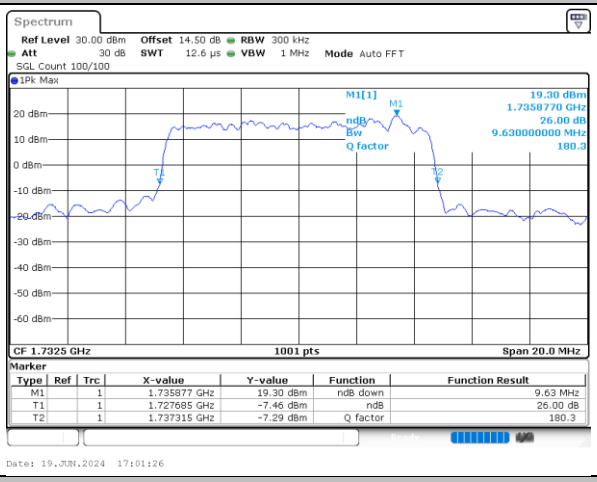


LTE Band 4

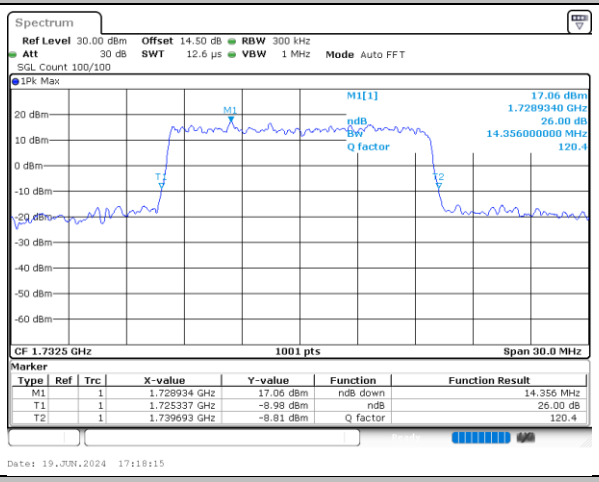
Middle Channel / 10MHz / QPSK



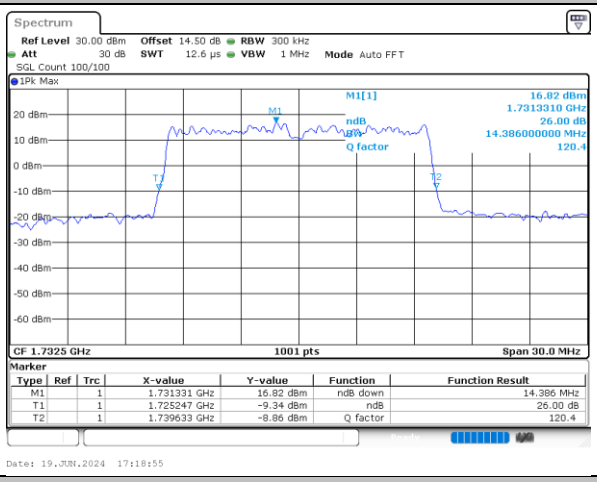
Middle Channel / 10MHz / 16QAM



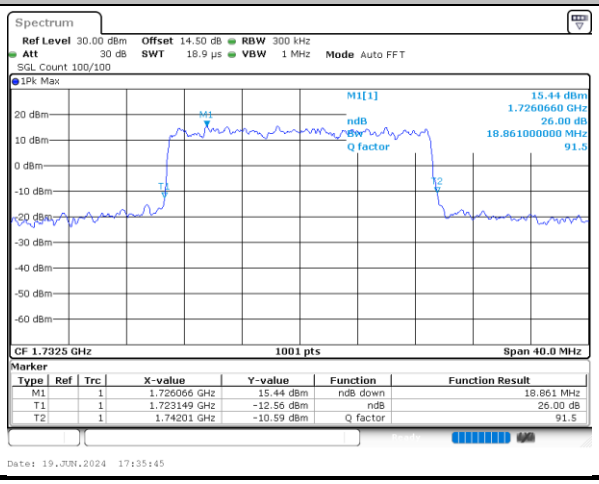
Middle Channel / 15MHz / QPSK



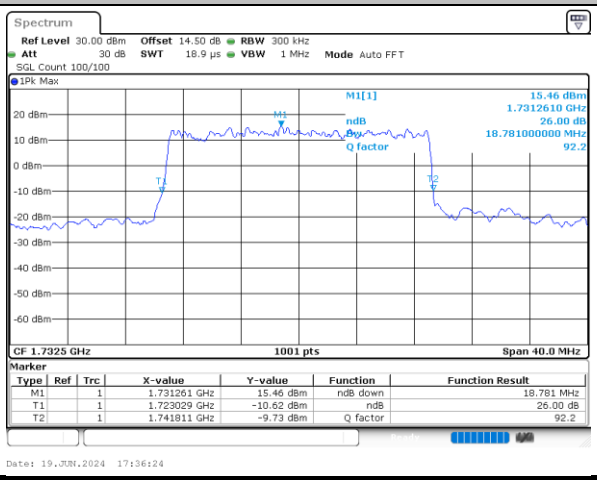
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

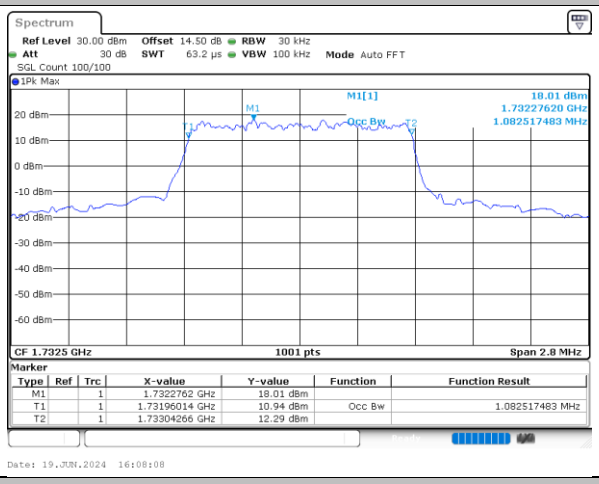


Occupied Bandwidth

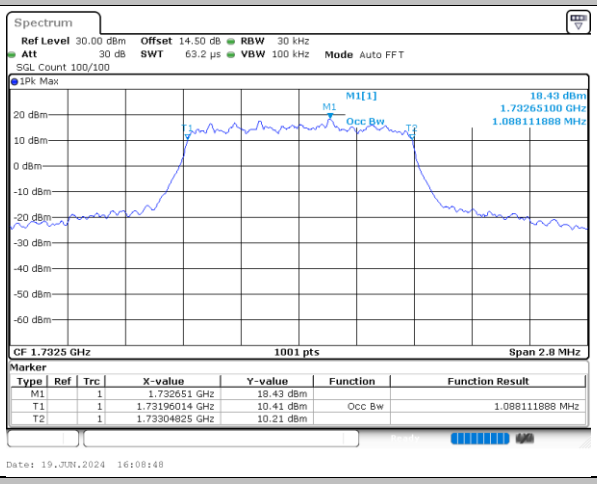
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.08	1.09	2.71	2.72	4.50	4.48	9.05	9.01	13.43	13.43	17.98	17.90

LTE Band 4

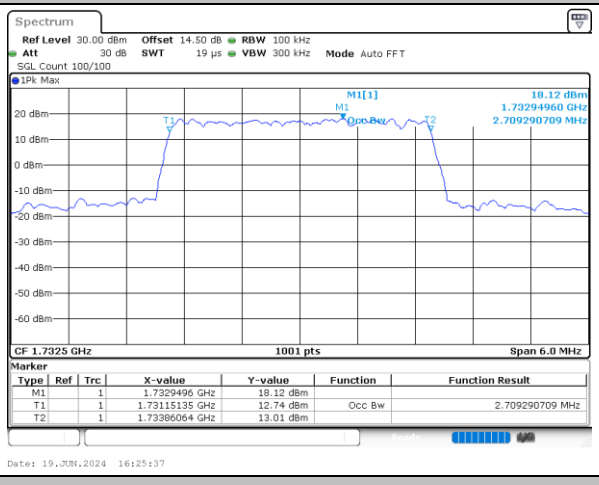
Middle Channel / 1.4MHz / QPSK



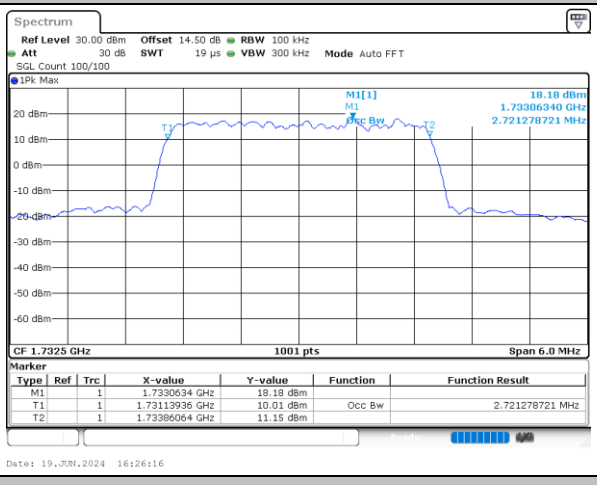
Middle Channel / 1.4MHz / 16QAM



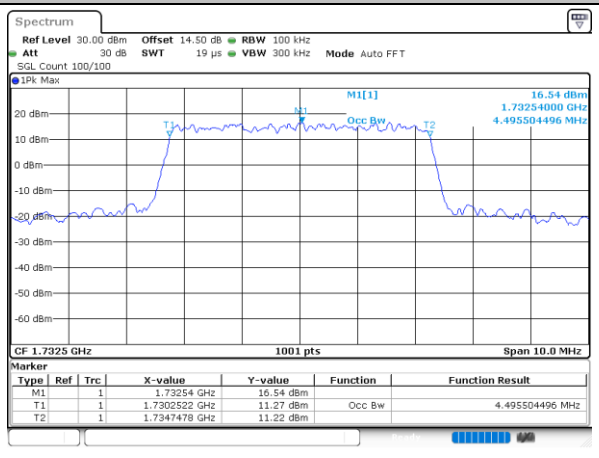
Middle Channel / 3MHz / QPSK



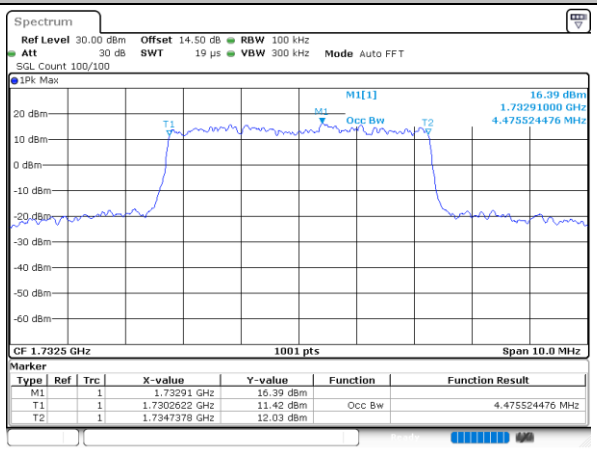
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK

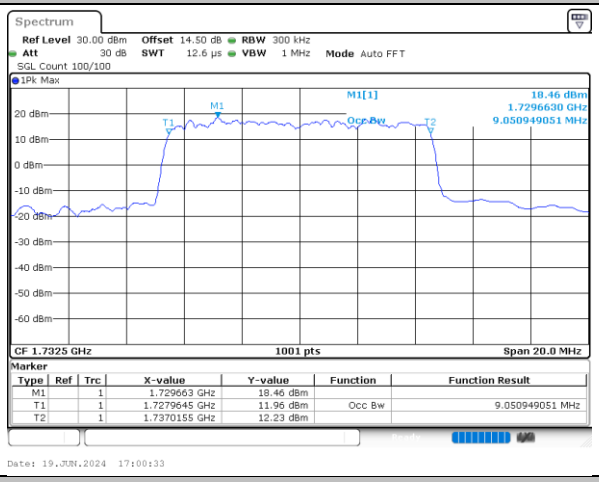


Middle Channel / 5MHz / 16QAM

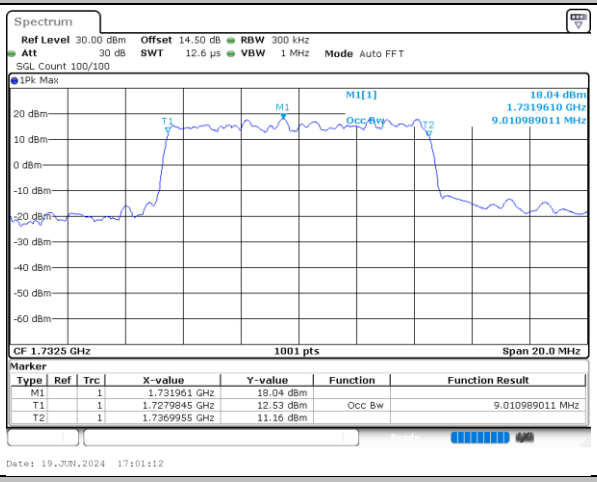


LTE Band 4

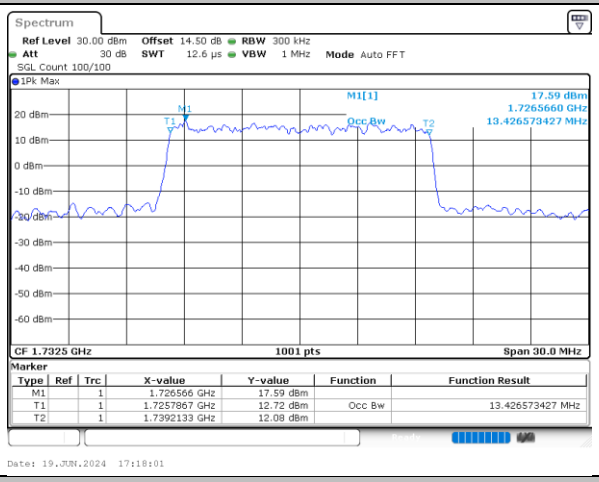
Middle Channel / 10MHz / QPSK



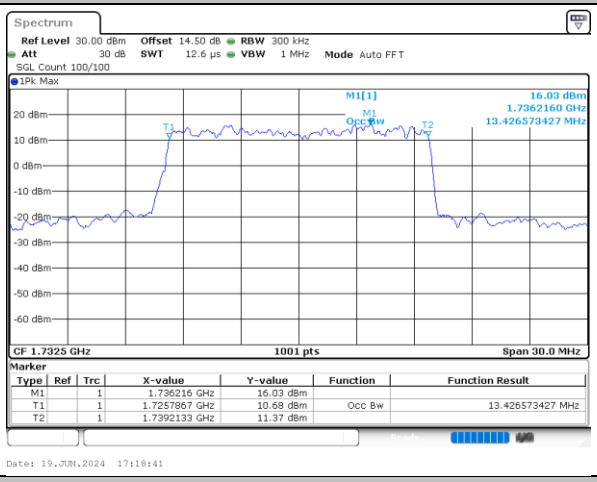
Middle Channel / 10MHz / 16QAM



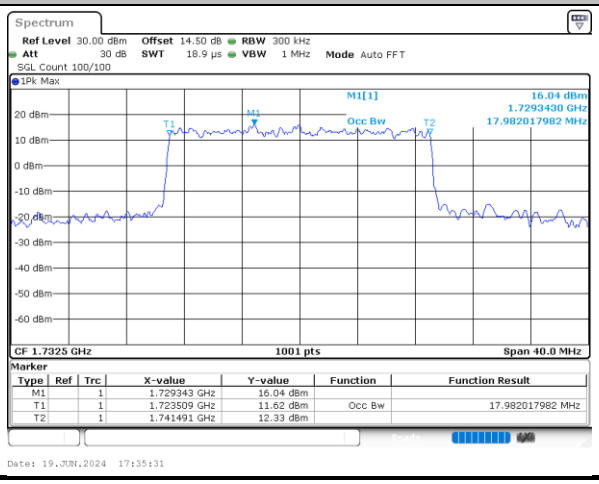
Middle Channel / 15MHz / QPSK



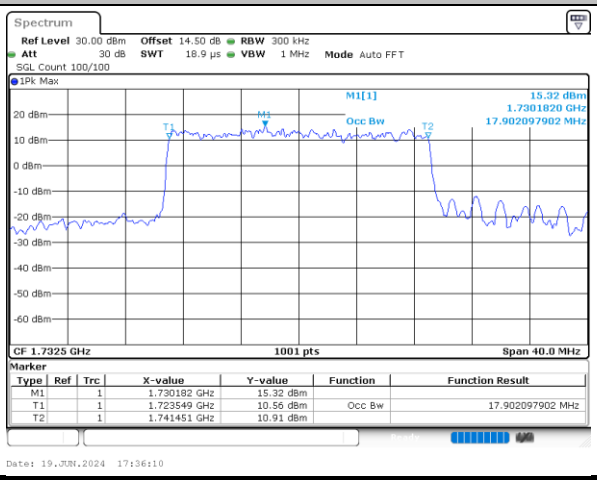
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



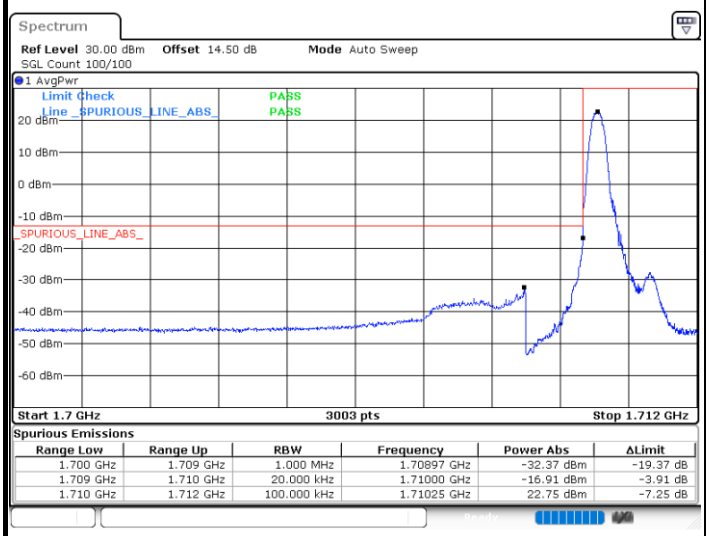
Middle Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

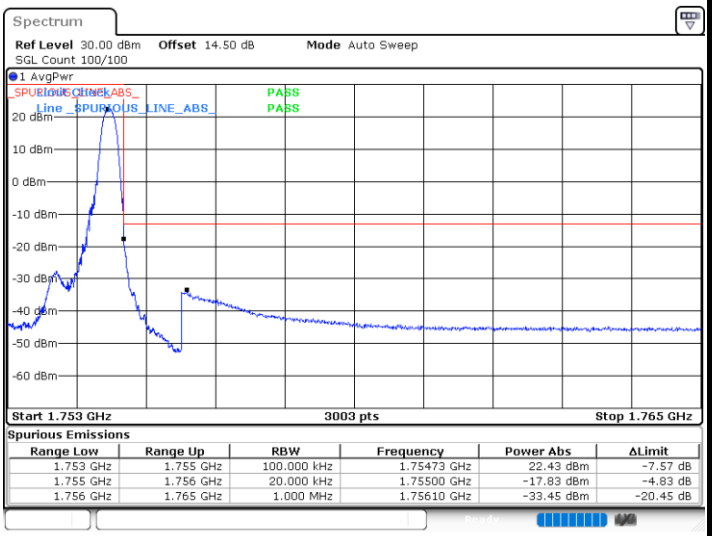


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-32.37 dBm	-19.37 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-16.91 dBm	-3.91 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71025 GHz	22.75 dBm	-7.25 dB

Date: 19.JUN.2024 16:00:04

Highest Band Edge / 1RB

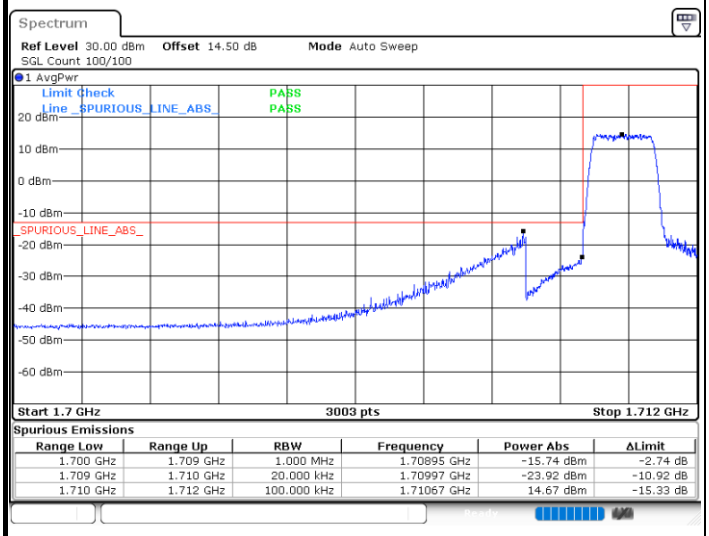


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75473 GHz	22.43 dBm	-7.57 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-17.83 dBm	-4.83 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75610 GHz	-33.45 dBm	-20.45 dB

Date: 19.JUN.2024 16:09:57

Lowest Band Edge / Full RB

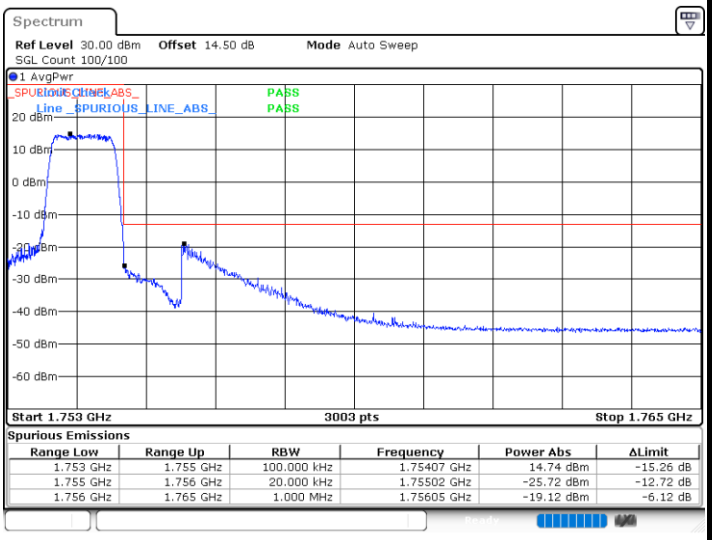


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70895 GHz	-15.74 dBm	-2.74 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.70997 GHz	-23.92 dBm	-10.92 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71067 GHz	14.67 dBm	-15.33 dB

Date: 19.JUN.2024 16:02:56

Highest Band Edge / Full RB



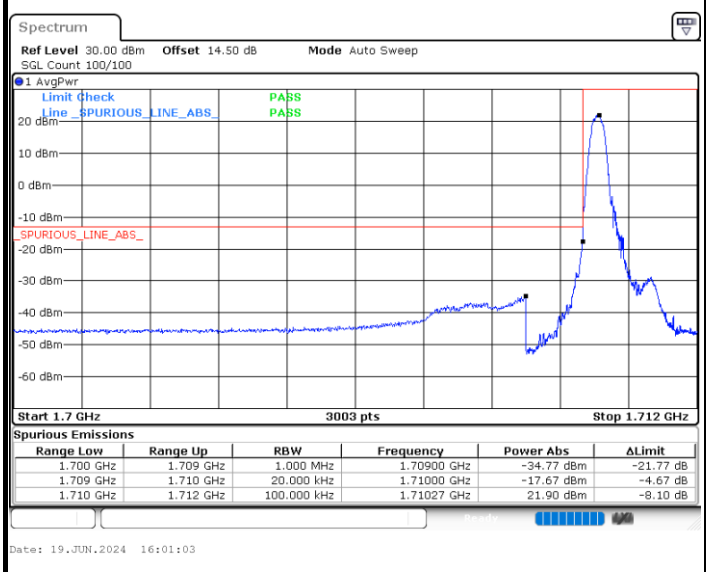
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75407 GHz	14.74 dBm	-15.26 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75502 GHz	-25.72 dBm	-12.72 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75605 GHz	-19.12 dBm	-6.12 dB

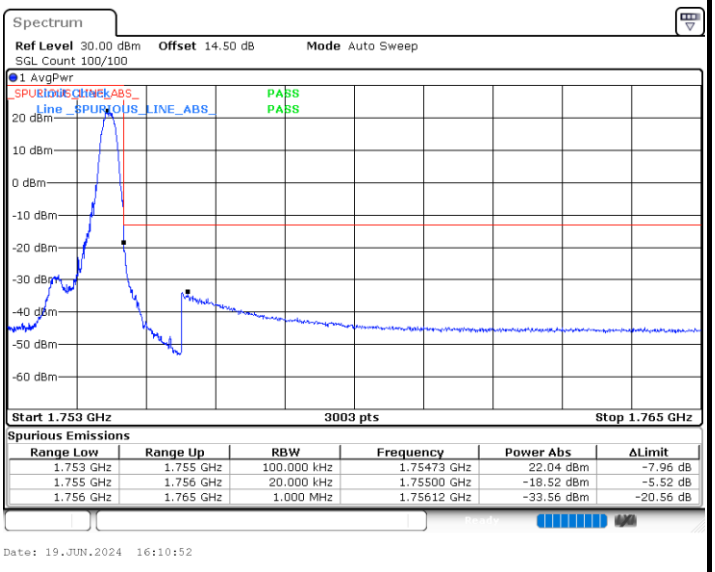
Date: 19.JUN.2024 16:12:45

LTE Band 4 / 1.4MHz / 16QAM

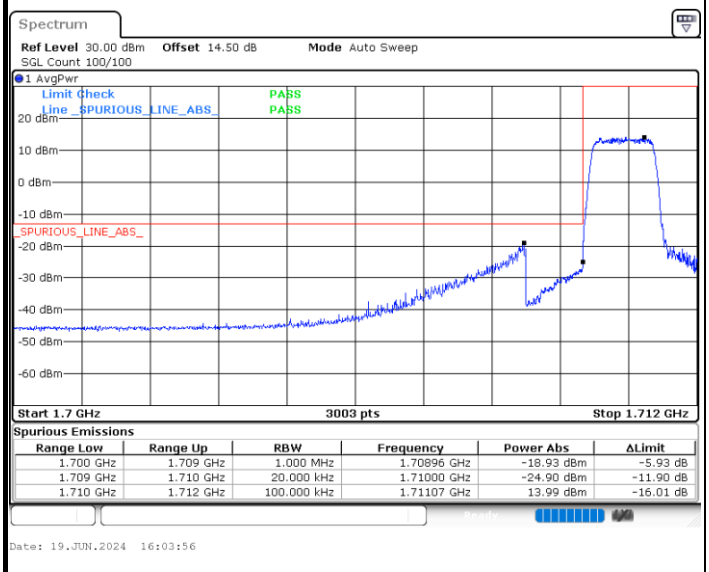
Lowest Band Edge / 1 RB



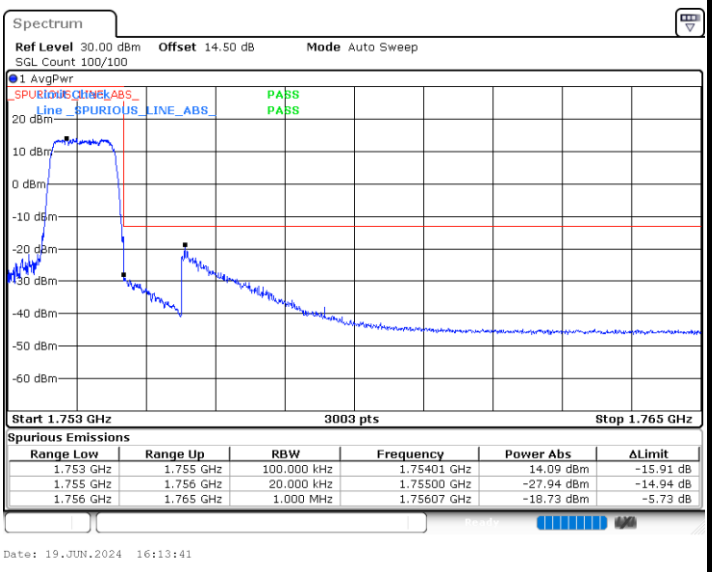
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

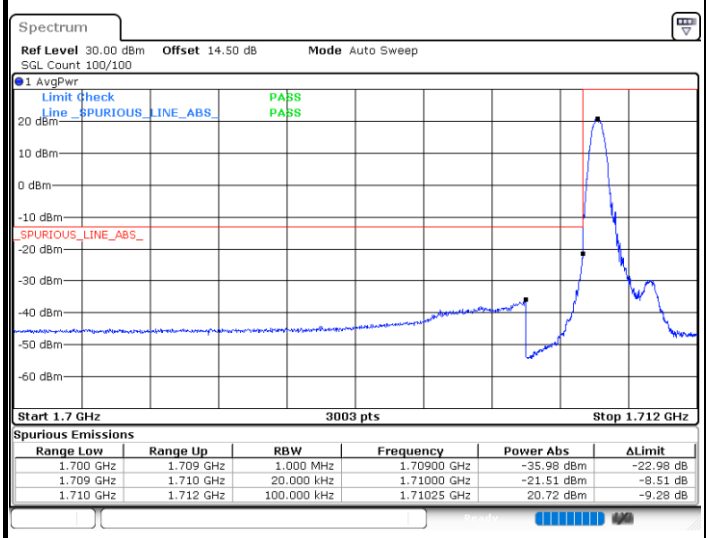


Highest Band Edge / Full RB



LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

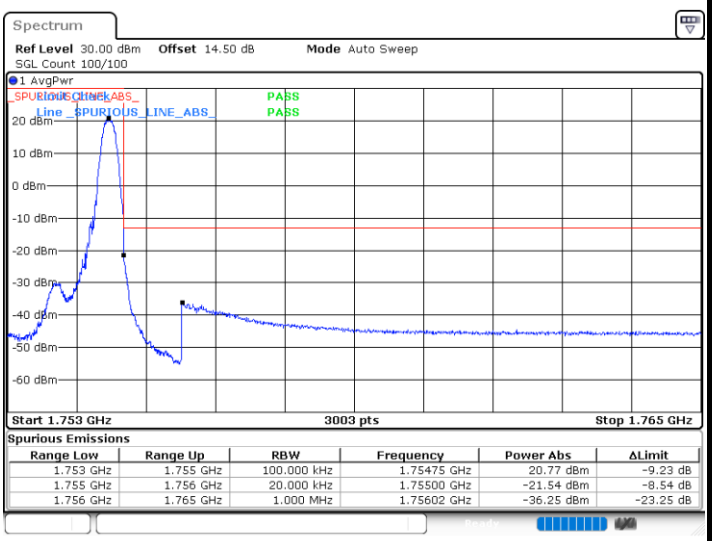


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-35.98 dBm	-22.98 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-21.51 dBm	-8.51 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71025 GHz	20.72 dBm	-9.28 dB

Date: 19.JUN.2024 16:02:00

Highest Band Edge / 1 RB

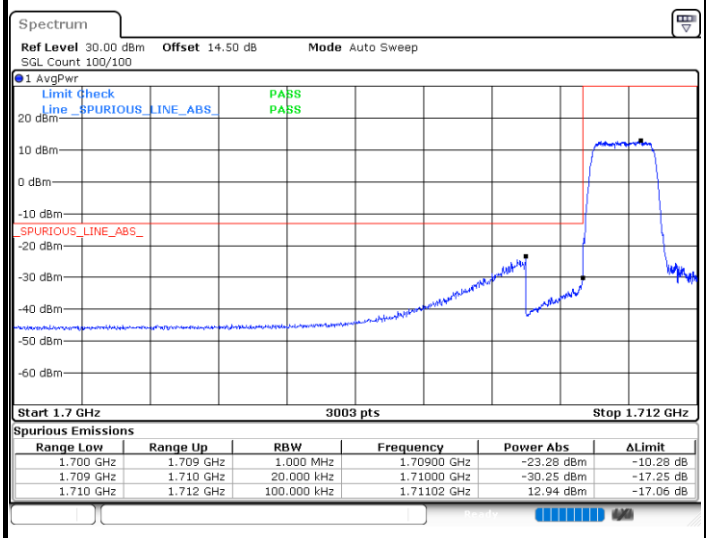


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75475 GHz	20.77 dBm	-9.23 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-21.54 dBm	-8.54 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75602 GHz	-36.25 dBm	-23.25 dB

Date: 19.JUN.2024 16:11:48

Lowest Band Edge / Full RB

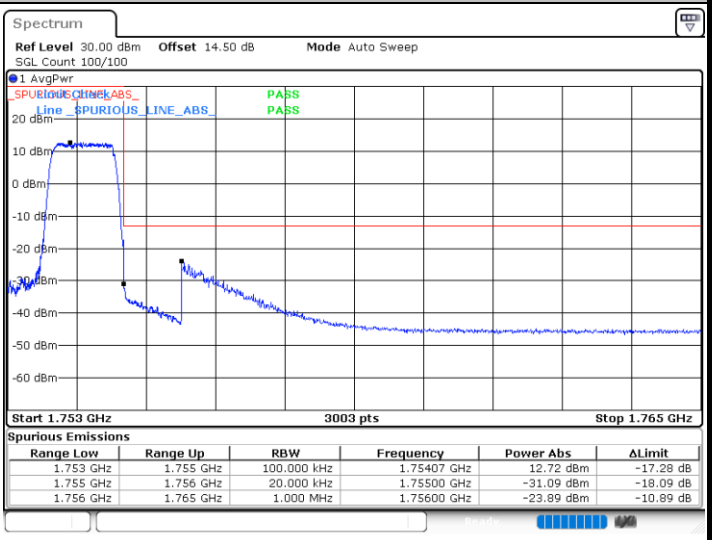


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-23.28 dBm	-10.28 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-30.25 dBm	-17.25 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71102 GHz	12.94 dBm	-17.06 dB

Date: 19.JUN.2024 16:04:52

Highest Band Edge / Full RB



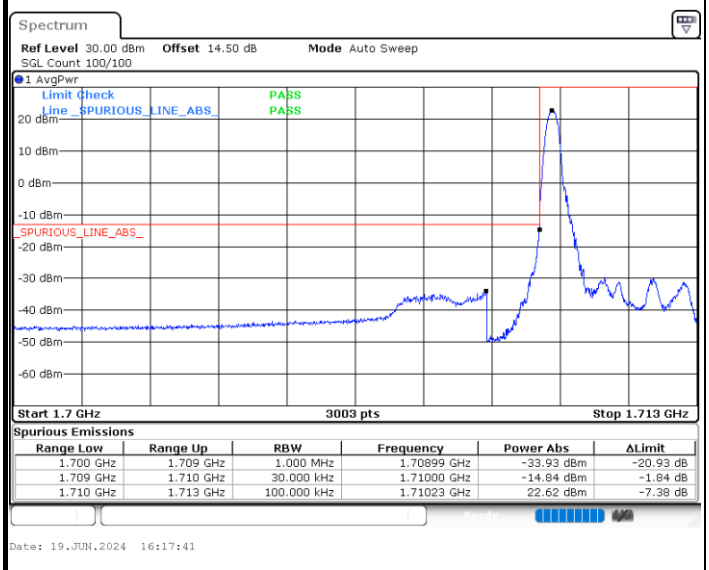
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75407 GHz	12.72 dBm	-17.28 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-31.09 dBm	-18.09 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-23.89 dBm	-10.89 dB

Date: 19.JUN.2024 16:14:36

LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB

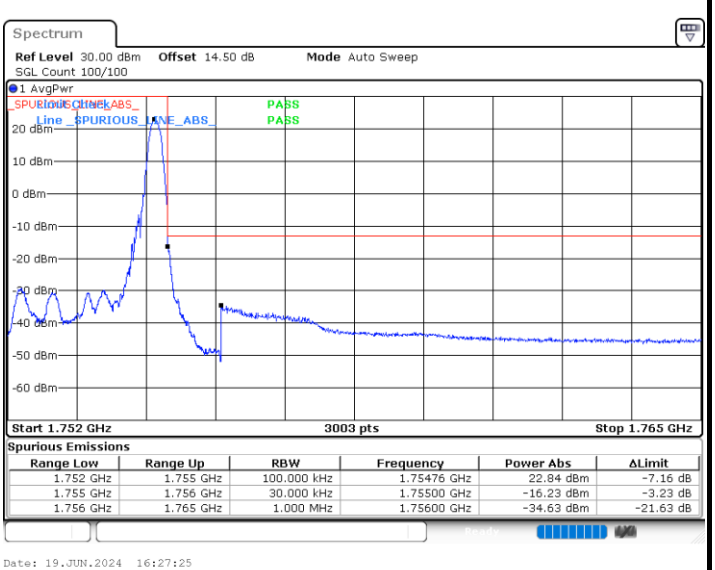


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-33.93 dBm	-20.93 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-14.84 dBm	-1.84 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71023 GHz	22.62 dBm	-7.38 dB

Date: 19.JUN.2024 16:17:41

Highest Band Edge / 1RB

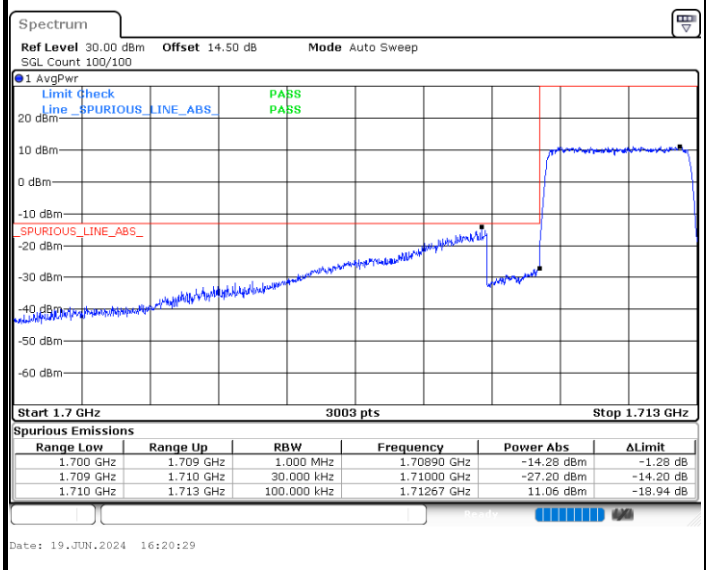


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75476 GHz	22.84 dBm	-7.16 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-16.23 dBm	-3.23 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-34.63 dBm	-21.63 dB

Date: 19.JUN.2024 16:27:25

Lowest Band Edge / Full RB

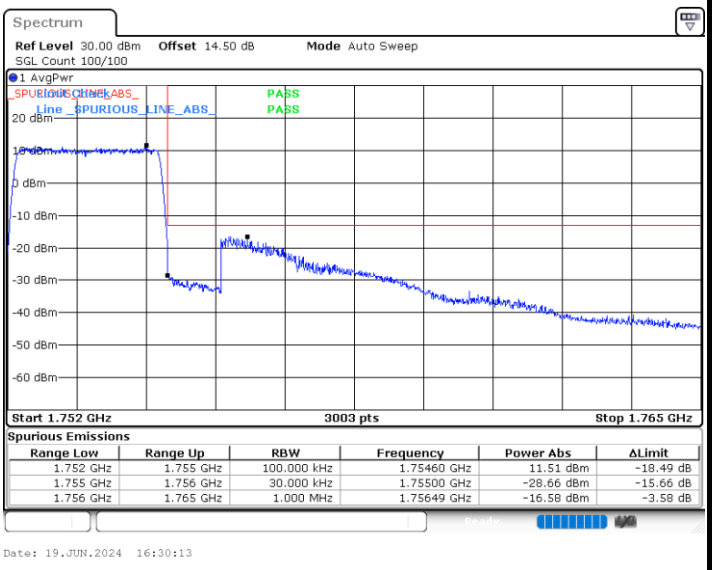


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70890 GHz	-14.28 dBm	-1.28 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-27.20 dBm	-14.20 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71267 GHz	11.06 dBm	-18.94 dB

Date: 19.JUN.2024 16:20:29

Highest Band Edge / Full RB



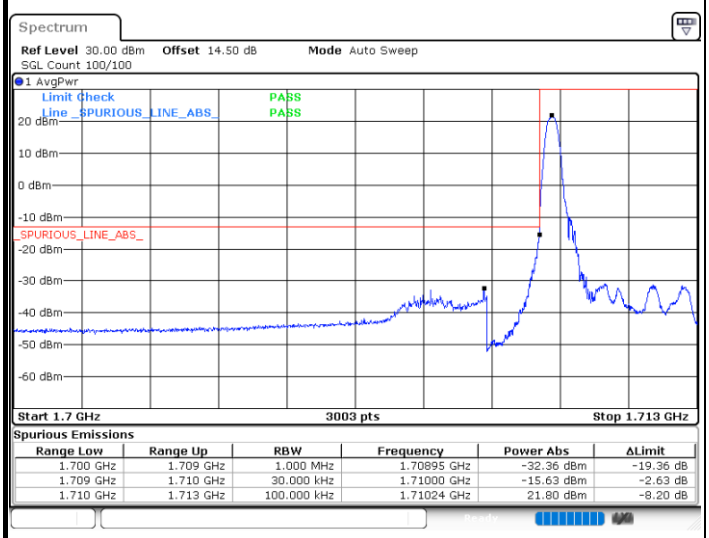
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75460 GHz	11.51 dBm	-18.49 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-28.66 dBm	-15.66 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75649 GHz	-16.58 dBm	-3.58 dB

Date: 19.JUN.2024 16:30:13

LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

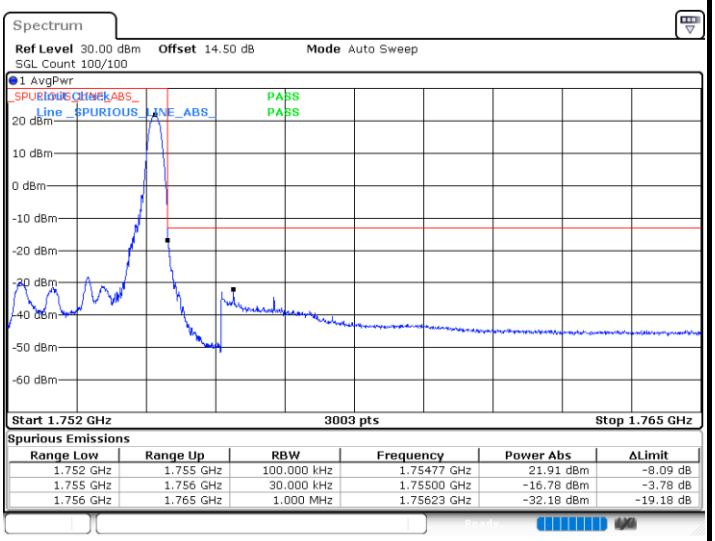


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70895 GHz	-32.36 dBm	-19.36 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-15.63 dBm	-2.63 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71024 GHz	21.80 dBm	-8.20 dB

Date: 19.JUN.2024 16:18:37

Highest Band Edge / 1 RB

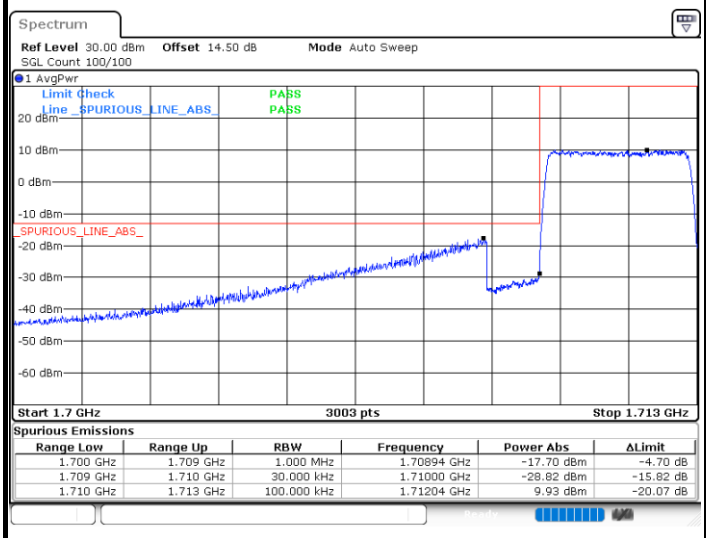


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75477 GHz	21.91 dBm	-8.09 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-16.78 dBm	-3.78 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75623 GHz	-32.18 dBm	-19.18 dB

Date: 19.JUN.2024 16:28:21

Lowest Band Edge / Full RB

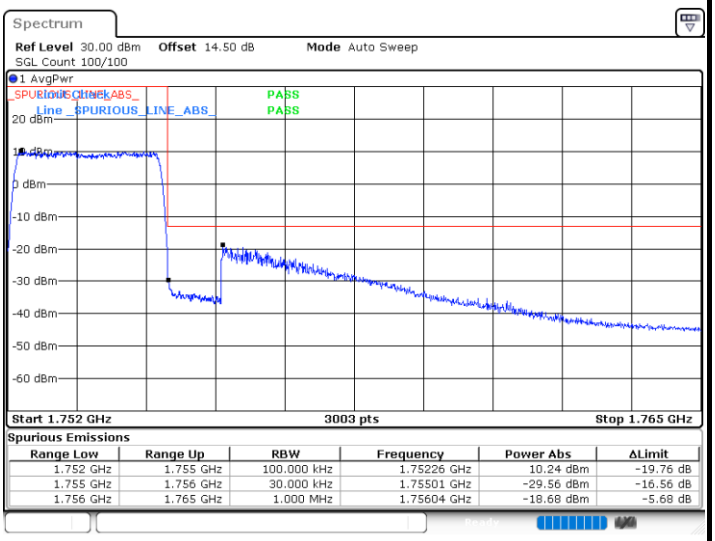


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70894 GHz	-17.70 dBm	-4.70 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-28.82 dBm	-15.82 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71204 GHz	9.93 dBm	-20.07 dB

Date: 19.JUN.2024 16:21:24

Highest Band Edge / Full RB



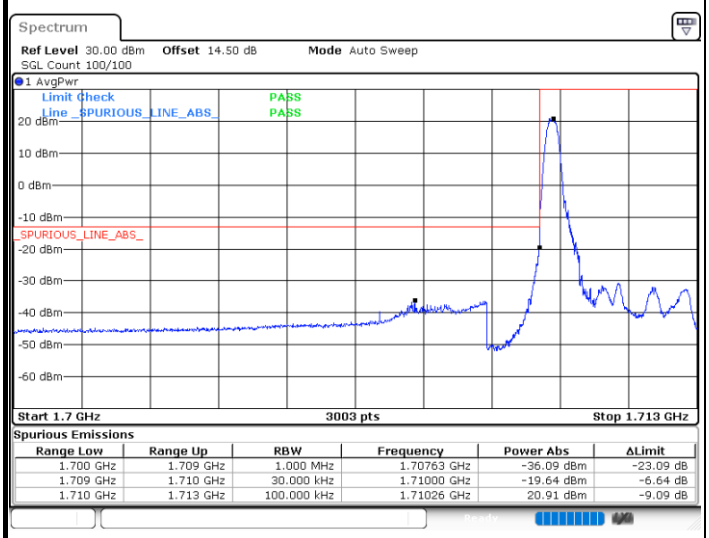
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75226 GHz	10.24 dBm	-19.76 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75501 GHz	-29.56 dBm	-16.56 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75604 GHz	-18.68 dBm	-5.68 dB

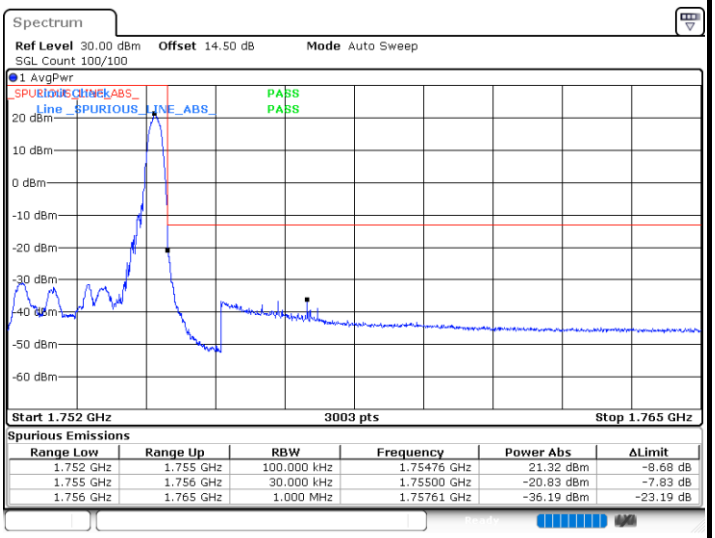
Date: 19.JUN.2024 16:31:09

LTE Band 4 / 3MHz / 64QAM

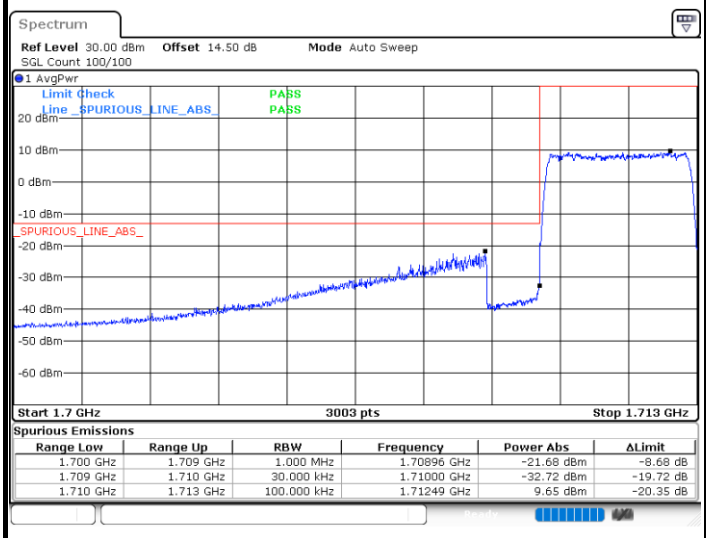
Lowest Band Edge / 1 RB



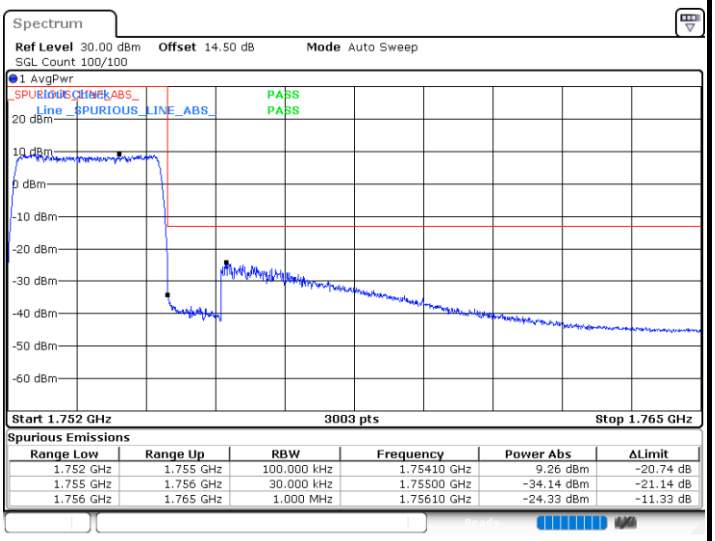
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

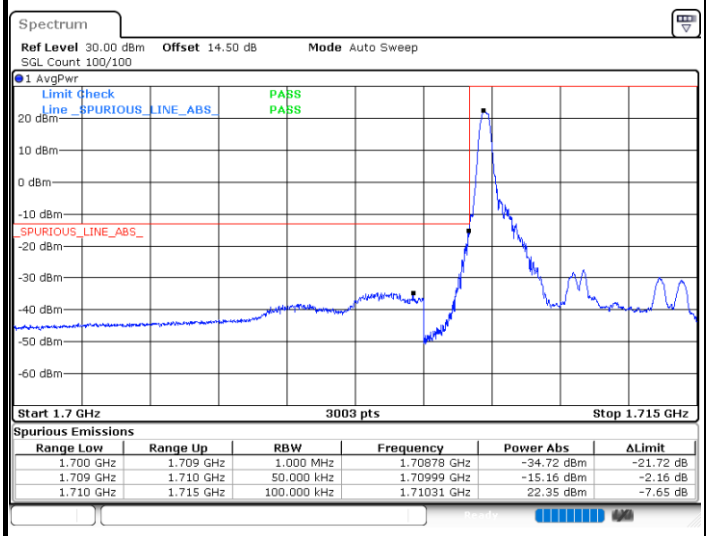


Highest Band Edge / Full RB



LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1RB

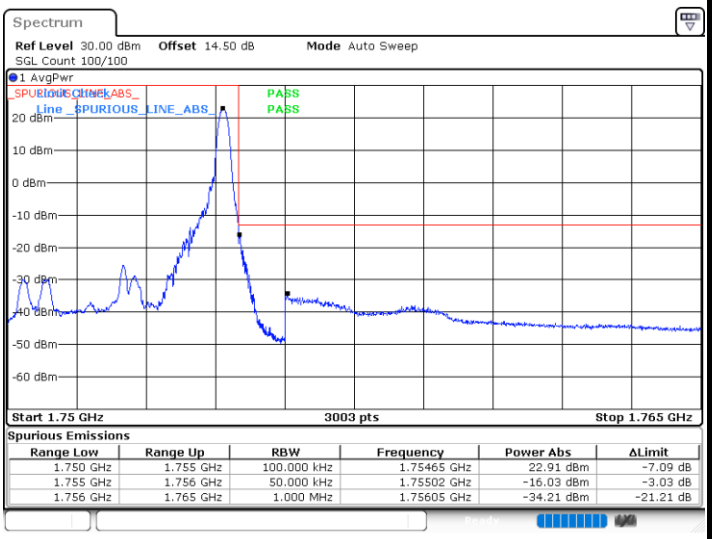


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70878 GHz	-34.72 dBm	-21.72 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70999 GHz	-15.16 dBm	-2.16 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71031 GHz	22.35 dBm	-7.65 dB

Date: 19.JUN.2024 16:35:09

Highest Band Edge / 1RB

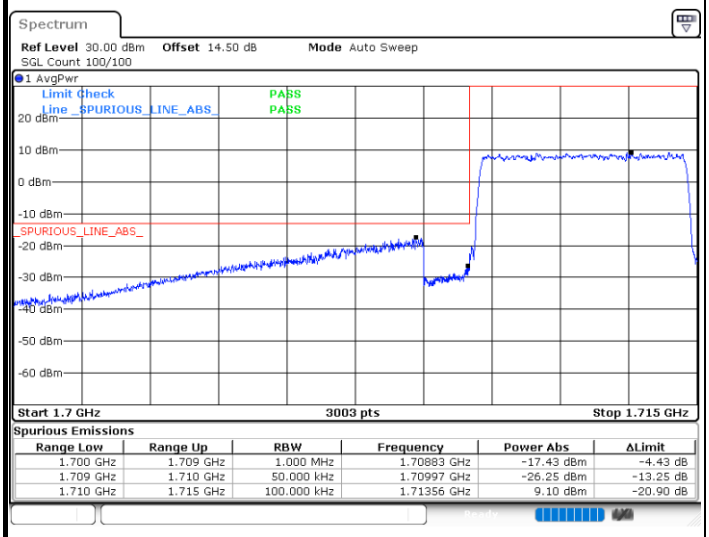


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75465 GHz	22.91 dBm	-7.09 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75502 GHz	-16.03 dBm	-3.03 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75605 GHz	-34.21 dBm	-21.21 dB

Date: 19.JUN.2024 16:44:53

Lowest Band Edge / Full RB

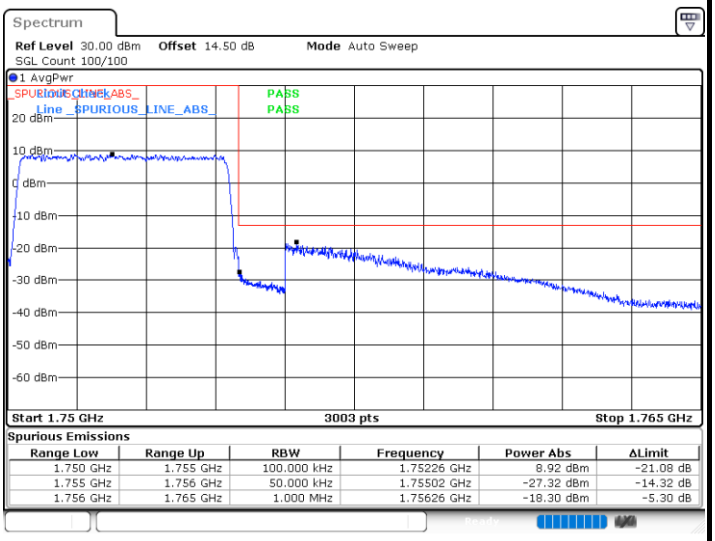


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70883 GHz	-17.43 dBm	-4.43 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70997 GHz	-26.25 dBm	-13.25 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71356 GHz	9.10 dBm	-20.90 dB

Date: 19.JUN.2024 16:37:57

Highest Band Edge / Full RB



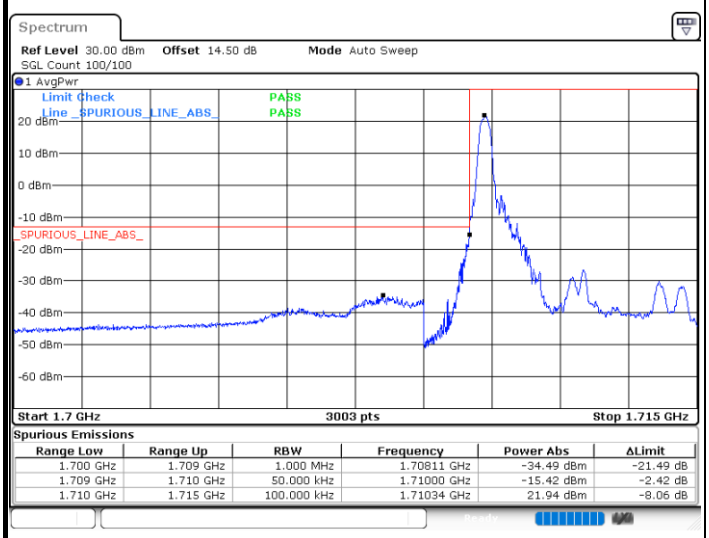
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75226 GHz	8.92 dBm	-21.08 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75502 GHz	-27.32 dBm	-14.32 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75626 GHz	-18.30 dBm	-5.30 dB

Date: 19.JUN.2024 16:47:41

LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

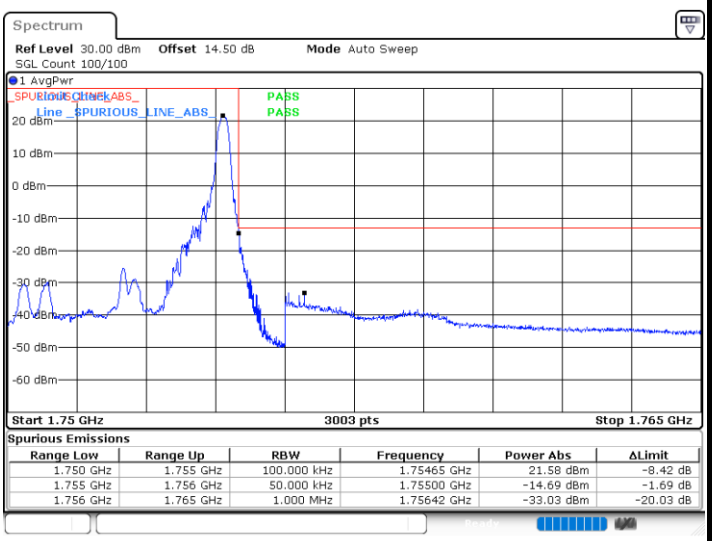


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70811 GHz	-34.49 dBm	-21.49 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-15.42 dBm	-2.42 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71034 GHz	21.94 dBm	-8.06 dB

Date: 19.JUN.2024 16:36:05

Highest Band Edge / 1 RB

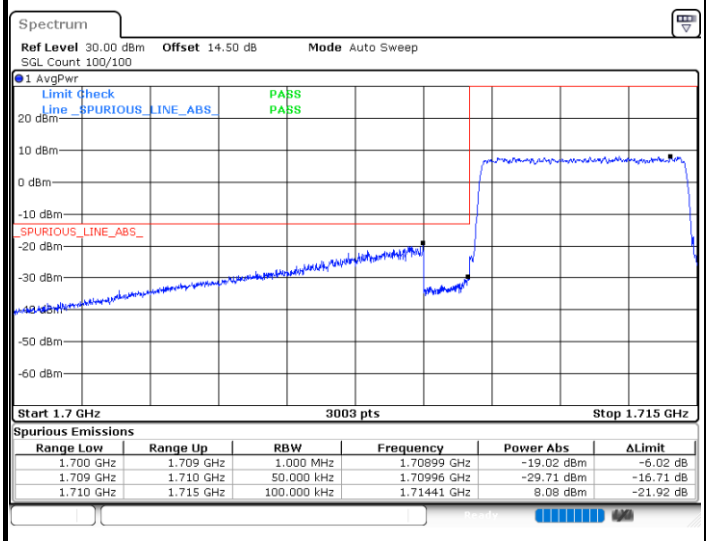


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75465 GHz	21.58 dBm	-8.42 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-14.69 dBm	-1.69 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75642 GHz	-33.03 dBm	-20.03 dB

Date: 19.JUN.2024 16:45:49

Lowest Band Edge / Full RB

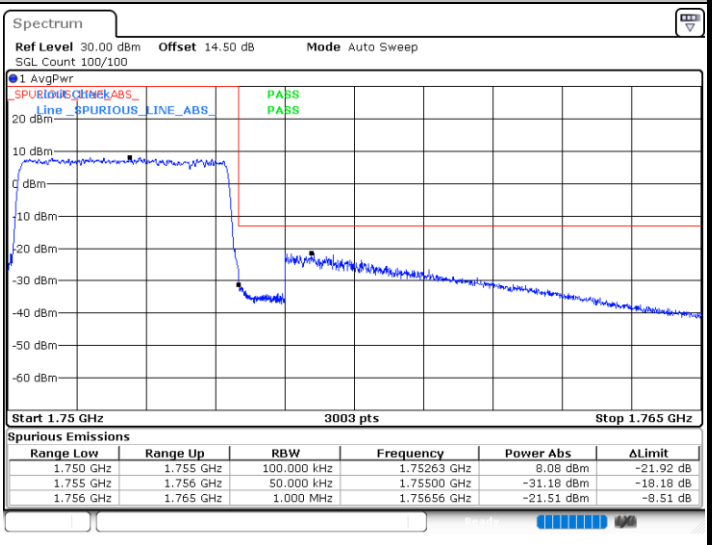


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-19.02 dBm	-6.02 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70996 GHz	-29.71 dBm	-16.71 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71441 GHz	8.08 dBm	-21.92 dB

Date: 19.JUN.2024 16:38:53

Highest Band Edge / Full RB



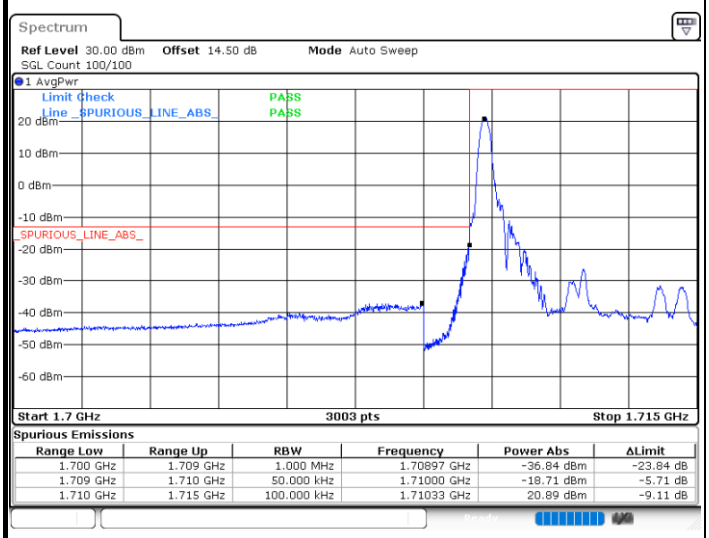
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75263 GHz	8.08 dBm	-21.92 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-31.18 dBm	-18.18 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75656 GHz	-21.51 dBm	-8.51 dB

Date: 19.JUN.2024 16:48:37

LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

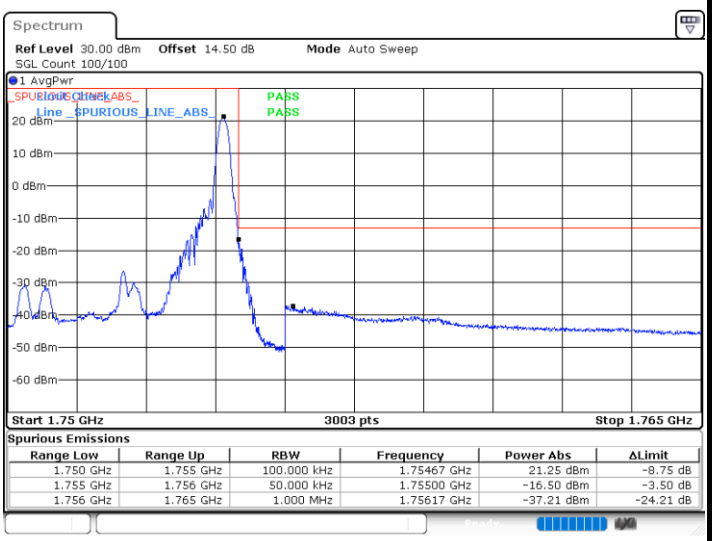


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-36.84 dBm	-23.84 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-18.71 dBm	-5.71 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71033 GHz	20.89 dBm	-9.11 dB

Date: 19.JUN.2024 16:37:01

Highest Band Edge / 1 RB

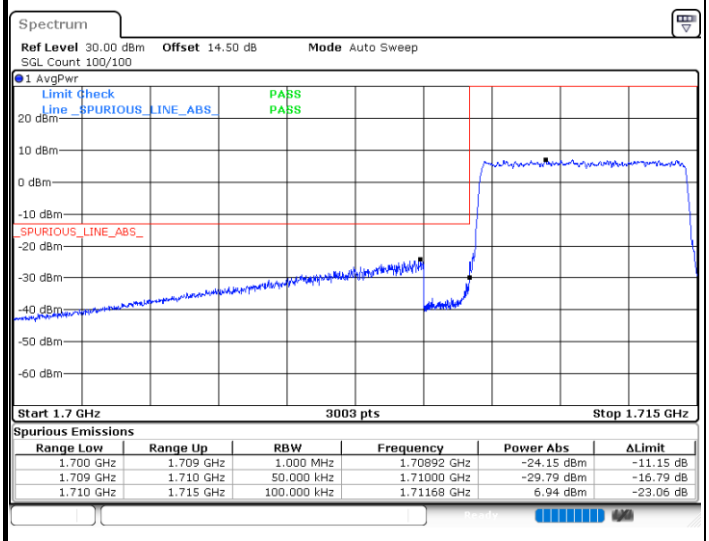


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75467 GHz	21.25 dBm	-8.75 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-16.50 dBm	-3.50 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75617 GHz	-37.21 dBm	-24.21 dB

Date: 19.JUN.2024 16:46:45

Lowest Band Edge / Full RB

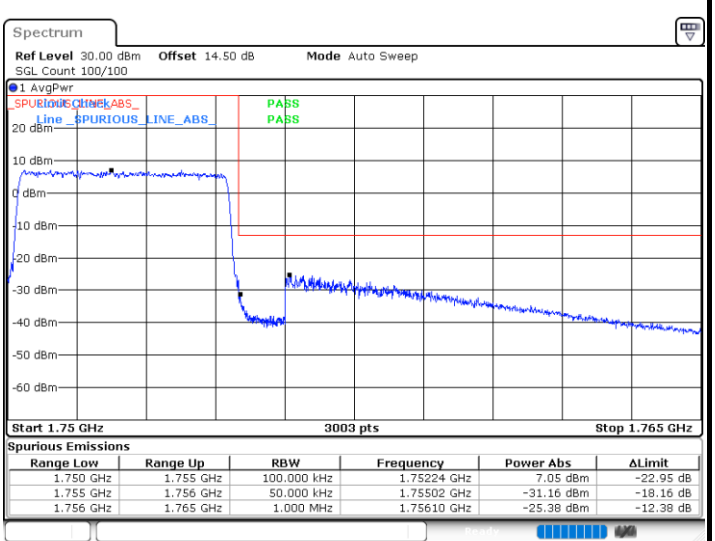


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70892 GHz	-24.15 dBm	-11.15 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-29.79 dBm	-16.79 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71168 GHz	6.94 dBm	-23.06 dB

Date: 19.JUN.2024 16:39:48

Highest Band Edge / Full RB



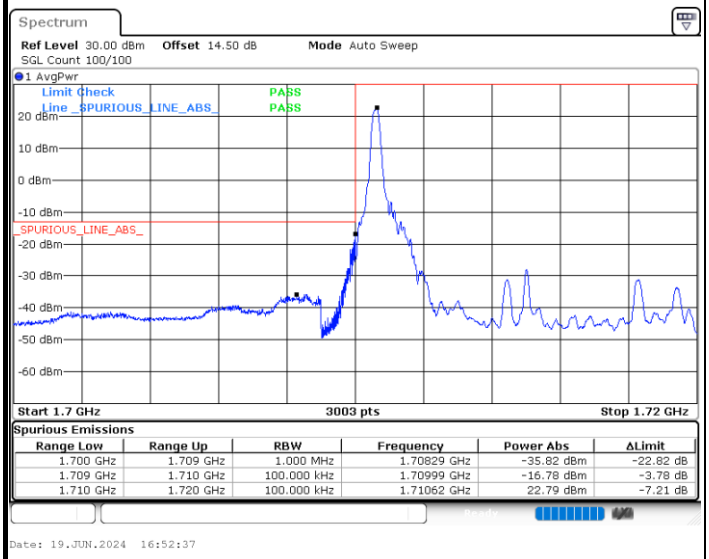
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75224 GHz	7.05 dBm	-22.95 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75502 GHz	-31.16 dBm	-18.16 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75610 GHz	-25.38 dBm	-12.38 dB

Date: 19.JUN.2024 16:49:32

LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1RB

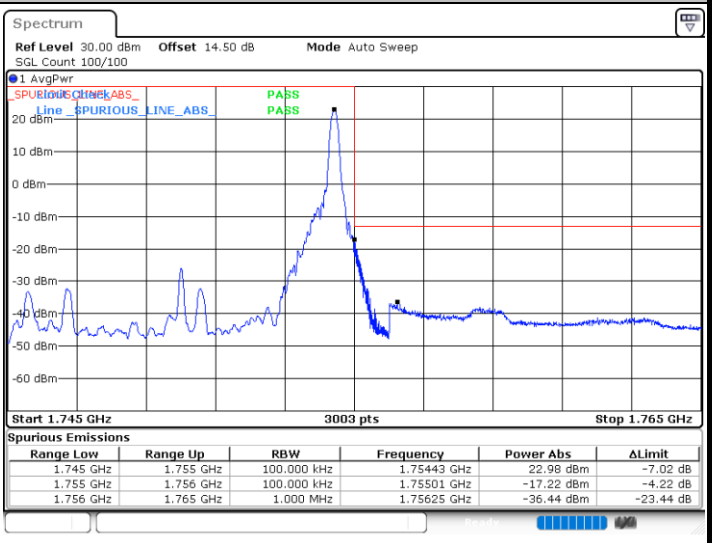


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70829 GHz	-35.82 dBm	-22.82 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.70999 GHz	-16.78 dBm	-3.78 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71062 GHz	22.79 dBm	-7.21 dB

Date: 19.JUN.2024 16:52:37

Highest Band Edge / 1RB

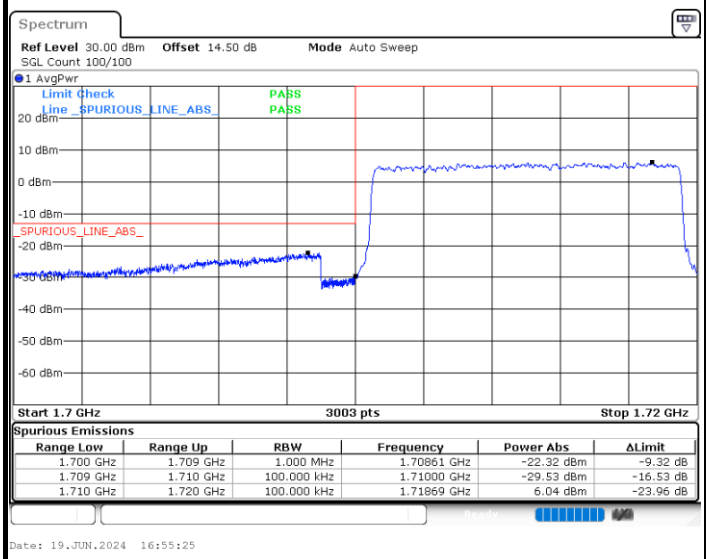


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75443 GHz	22.98 dBm	-7.02 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75501 GHz	-17.22 dBm	-4.22 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75625 GHz	-36.44 dBm	-23.44 dB

Date: 19.JUN.2024 17:02:21

Lowest Band Edge / Full RB

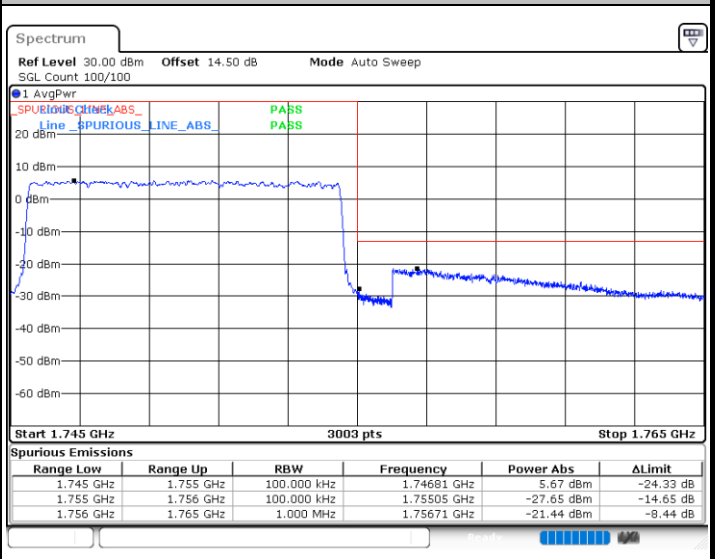


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70861 GHz	-22.32 dBm	-9.32 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.71000 GHz	-29.53 dBm	-16.53 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71869 GHz	6.04 dBm	-23.96 dB

Date: 19.JUN.2024 16:55:25

Highest Band Edge / Full RB



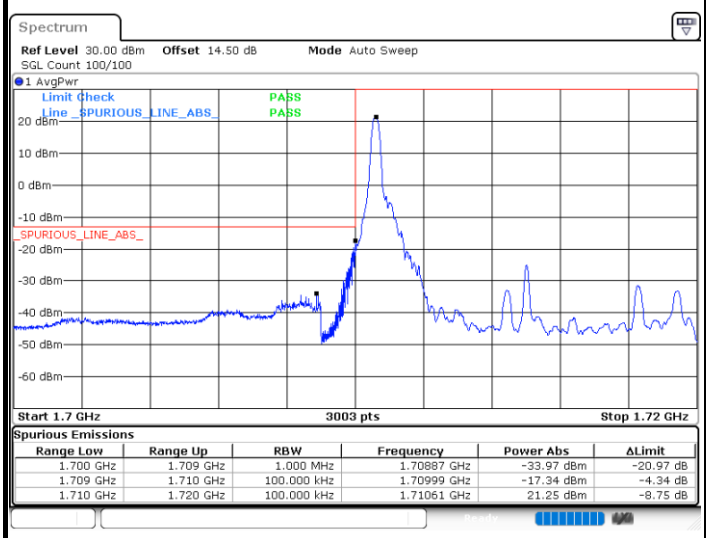
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.74681 GHz	5.67 dBm	-24.33 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75505 GHz	-27.65 dBm	-14.65 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75671 GHz	-21.44 dBm	-8.44 dB

Date: 19.JUN.2024 17:05:09

LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

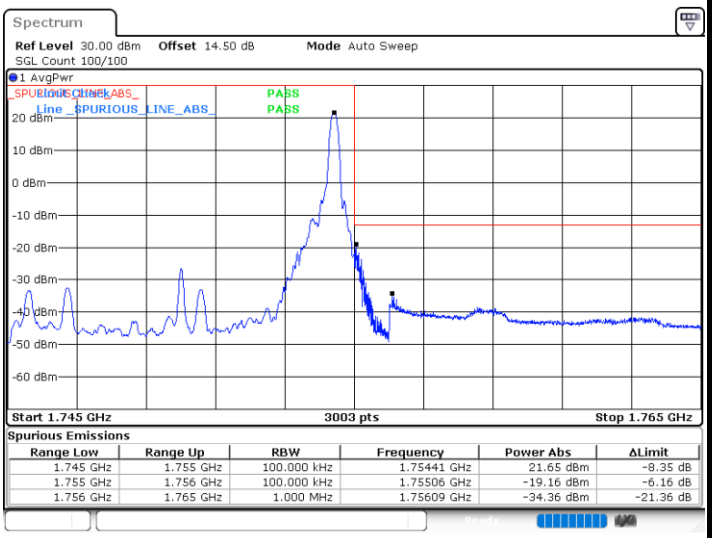


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70887 GHz	-33.97 dBm	-20.97 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.70999 GHz	-17.34 dBm	-4.34 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71061 GHz	21.25 dBm	-8.75 dB

Date: 19.JUN.2024 16:53:33

Highest Band Edge / 1 RB

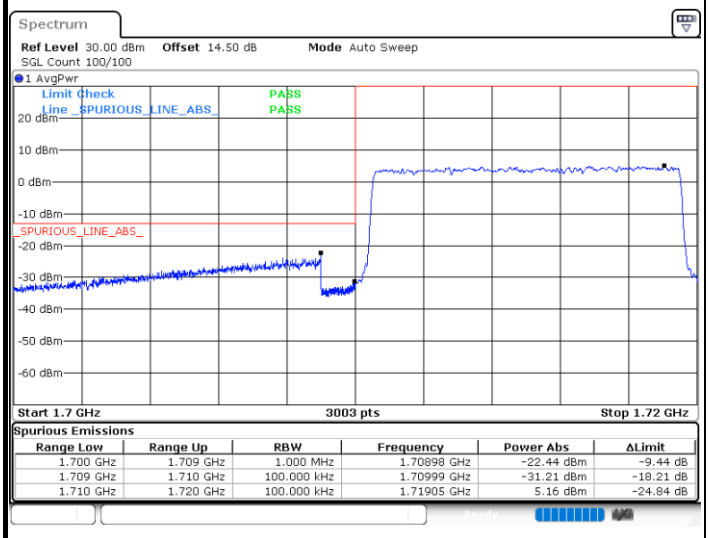


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75441 GHz	21.65 dBm	-8.35 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75506 GHz	-19.16 dBm	-6.16 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-34.36 dBm	-21.36 dB

Date: 19.JUN.2024 17:03:17

Lowest Band Edge / Full RB

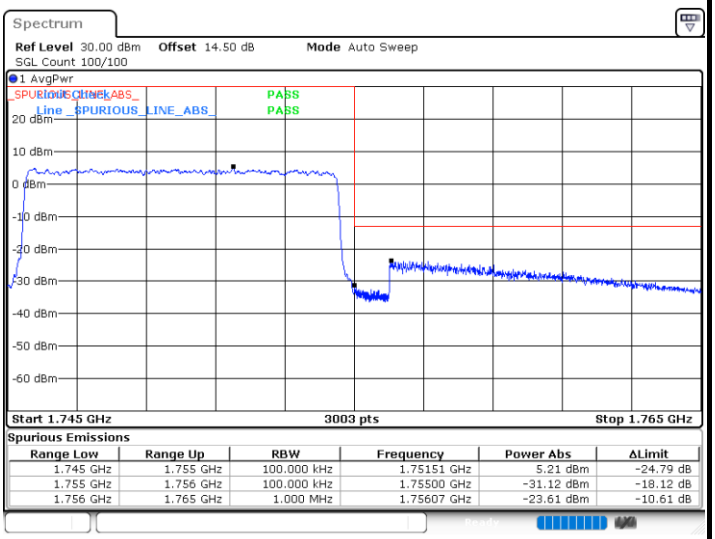


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-22.44 dBm	-9.44 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.70999 GHz	-31.21 dBm	-18.21 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71905 GHz	5.16 dBm	-24.84 dB

Date: 19.JUN.2024 16:56:21

Highest Band Edge / Full RB



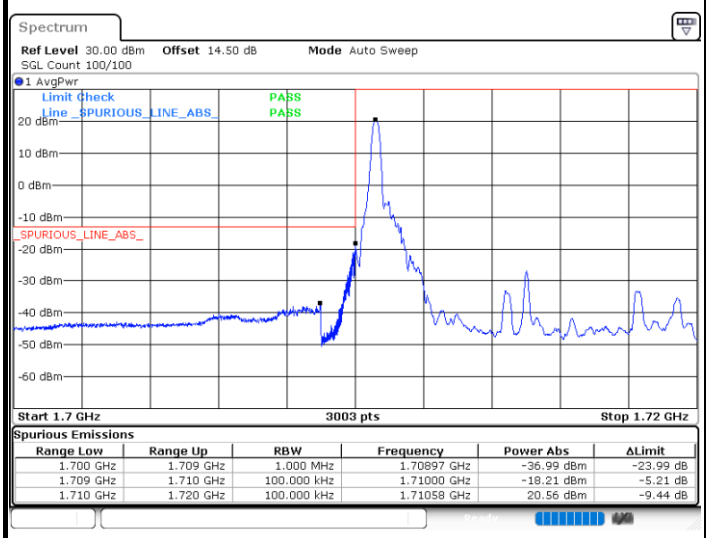
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75151 GHz	5.21 dBm	-24.79 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75500 GHz	-31.12 dBm	-18.12 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75607 GHz	-23.61 dBm	-10.61 dB

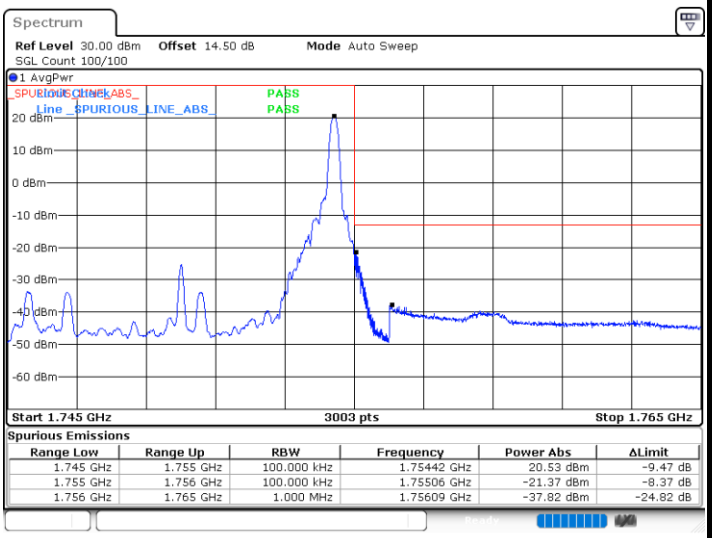
Date: 19.JUN.2024 17:06:05

LTE Band 4 / 10MHz / 64QAM

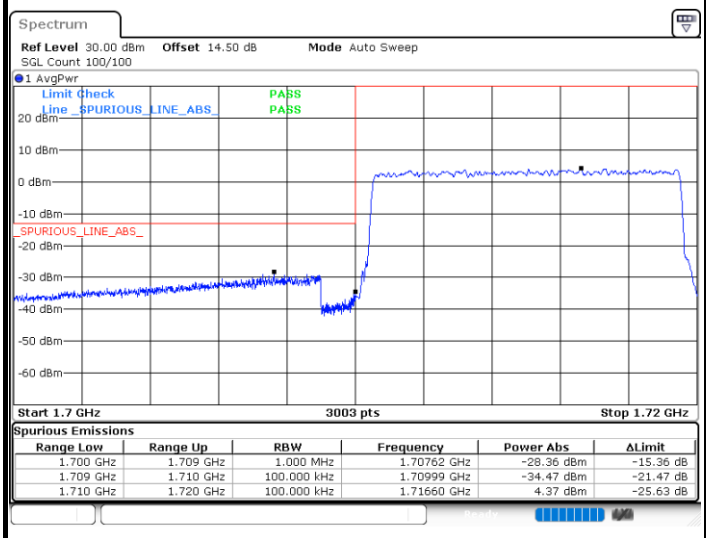
Lowest Band Edge / 1 RB



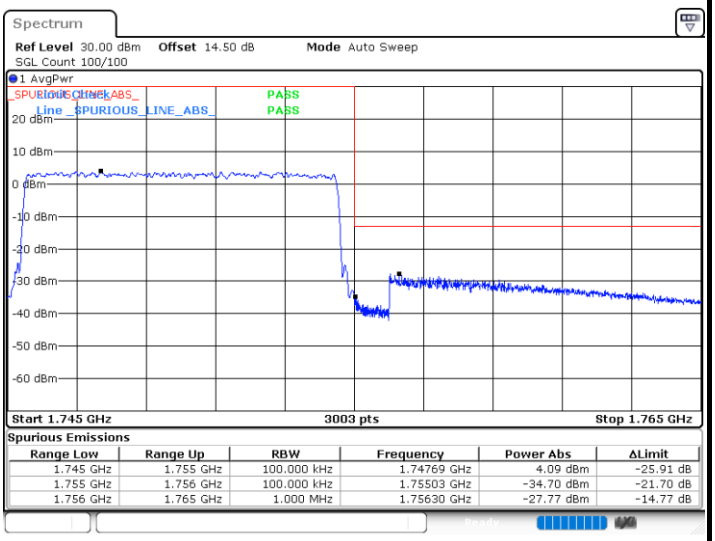
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

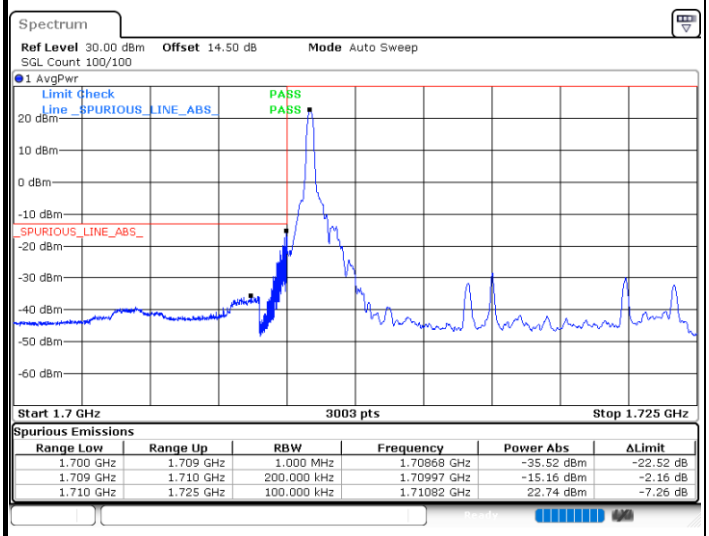


Highest Band Edge / Full RB



LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1RB

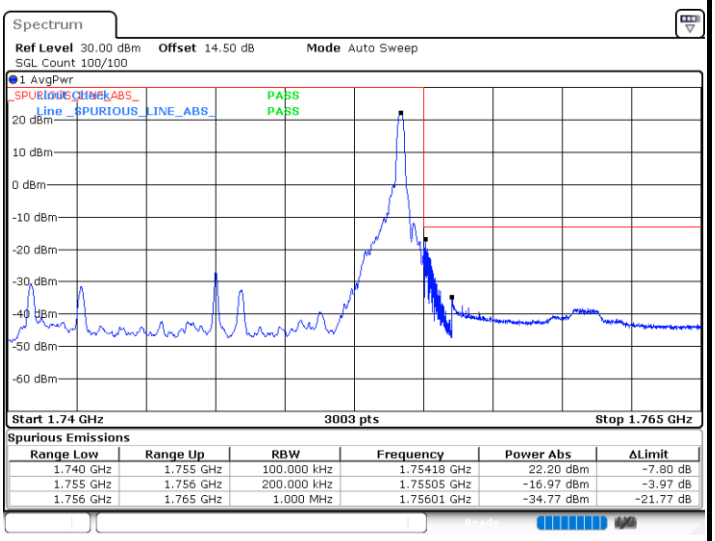


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70868 GHz	-35.52 dBm	-22.52 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70997 GHz	-15.16 dBm	-2.16 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71082 GHz	22.74 dBm	-7.26 dB

Date: 19.JUN.2024 17:10:05

Highest Band Edge / 1RB

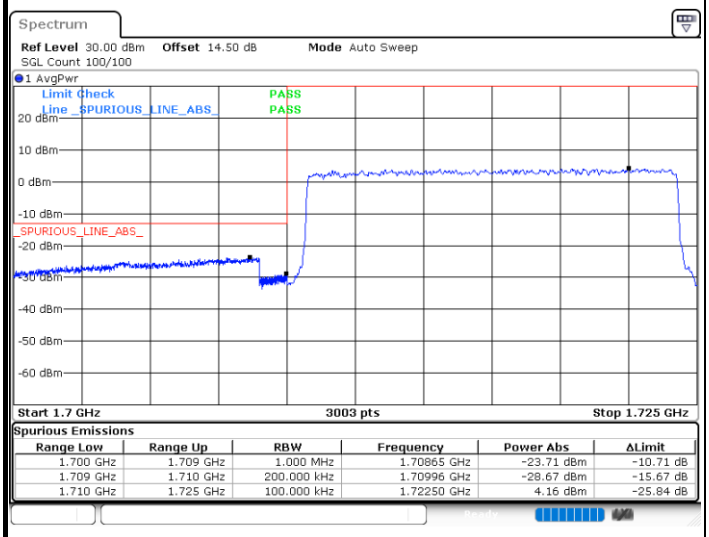


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75418 GHz	22.20 dBm	-7.80 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75505 GHz	-16.97 dBm	-3.97 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-34.77 dBm	-21.77 dB

Date: 19.JUN.2024 17:19:50

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70865 GHz	-23.71 dBm	-10.71 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70996 GHz	-28.67 dBm	-15.67 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.72250 GHz	4.16 dBm	-25.84 dB

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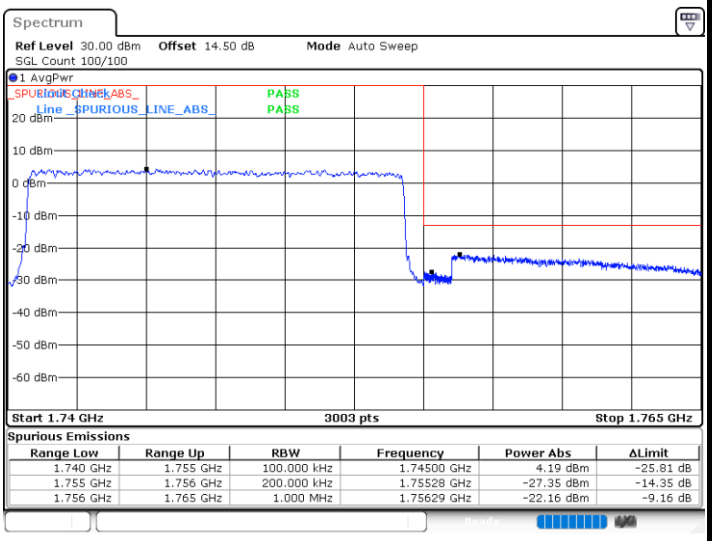
Highest Band Edge / Full RB



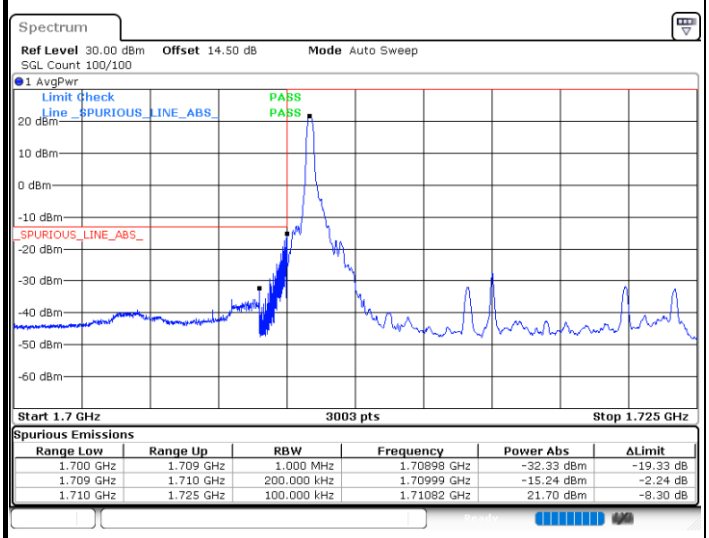
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.74500 GHz	4.19 dBm	-25.81 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75528 GHz	-27.35 dBm	-14.35 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75629 GHz	-22.16 dBm	-9.16 dB

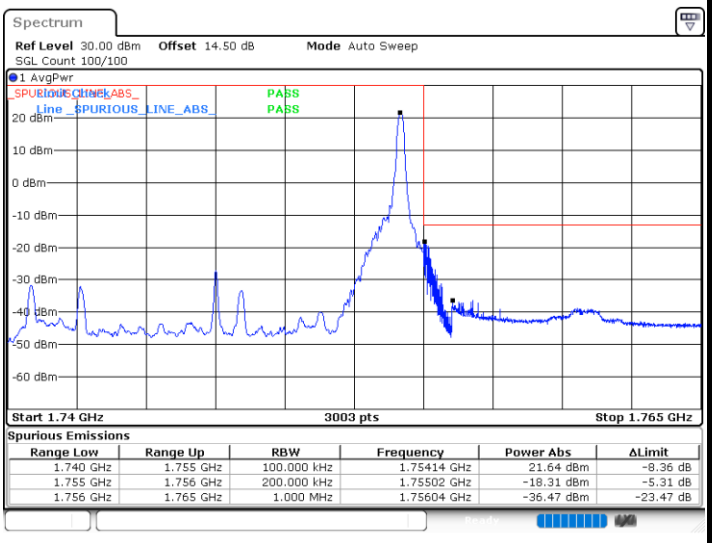
Date: 19.JUN.2024 17:22:38

LTE Band 4 / 15MHz / 16QAM

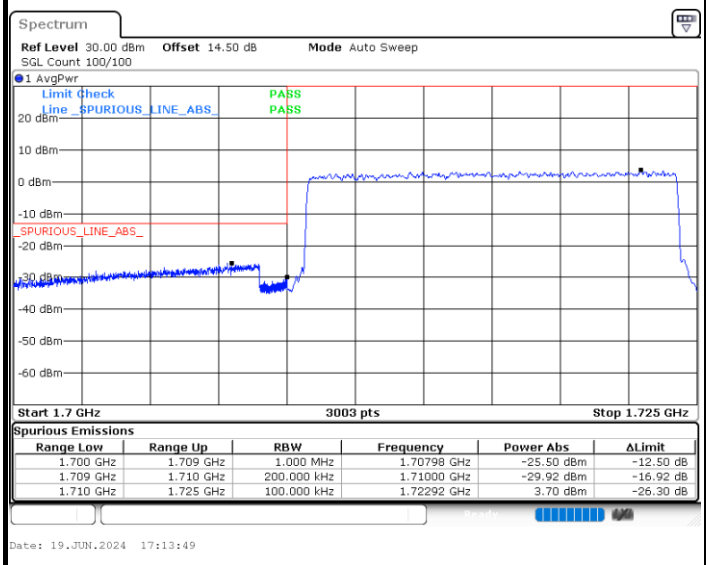
Lowest Band Edge / 1 RB



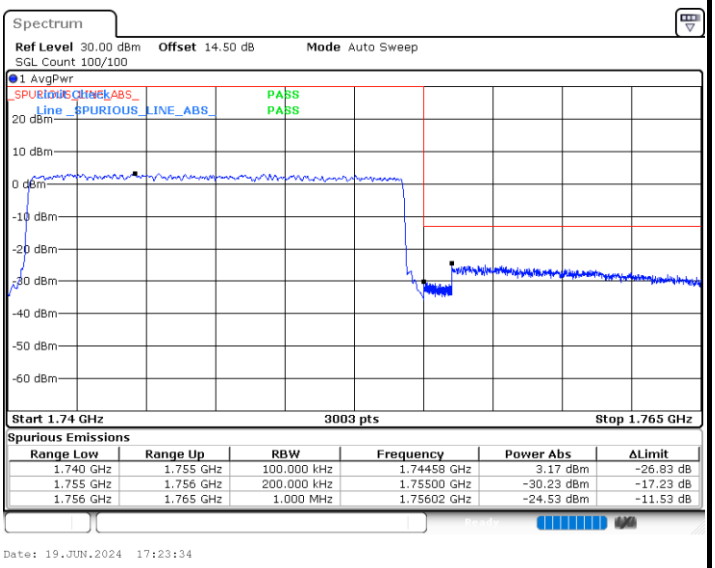
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

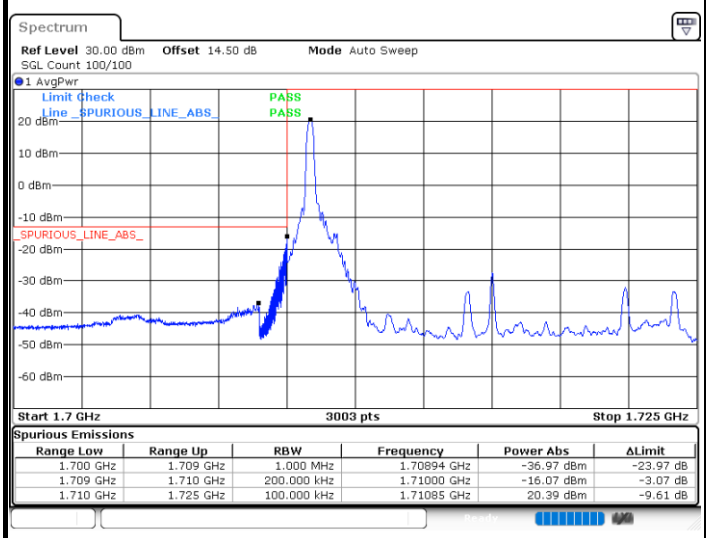


Highest Band Edge / Full RB

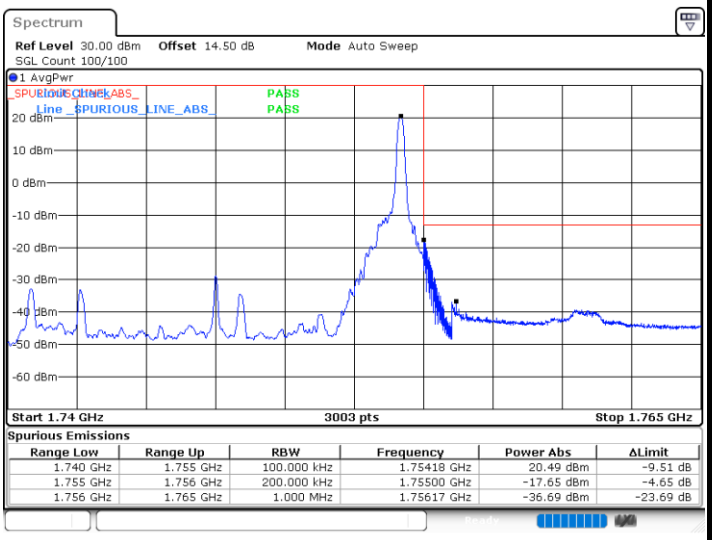


LTE Band 4 / 15MHz / 64QAM

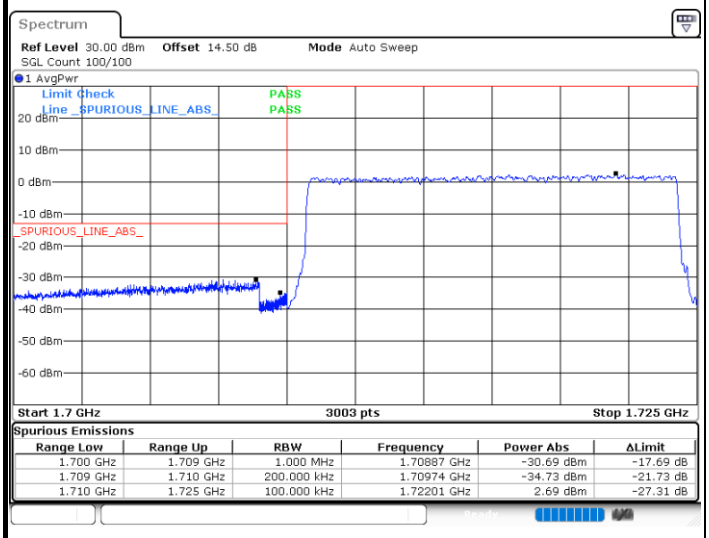
Lowest Band Edge / 1 RB



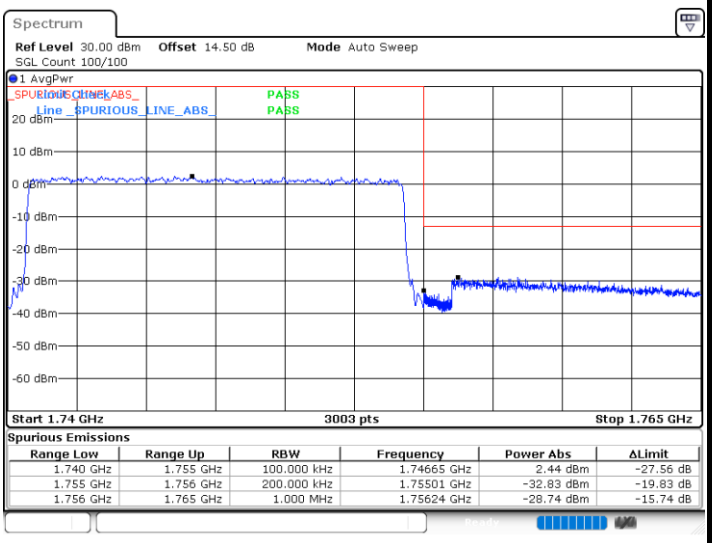
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

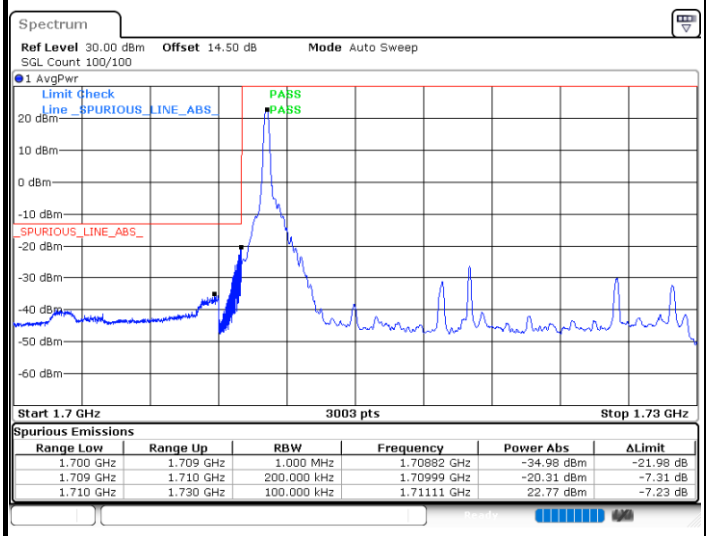


Highest Band Edge / Full RB



LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70882 GHz	-34.98 dBm	-21.98 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70999 GHz	-20.31 dBm	-7.31 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71111 GHz	22.77 dBm	-7.23 dB

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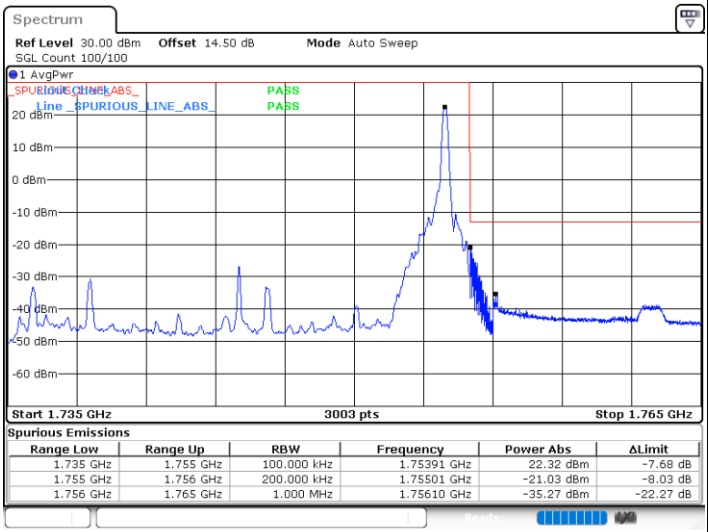
Highest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75391 GHz	22.32 dBm	-7.68 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75501 GHz	-21.03 dBm	-8.03 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75610 GHz	-35.27 dBm	-22.27 dB

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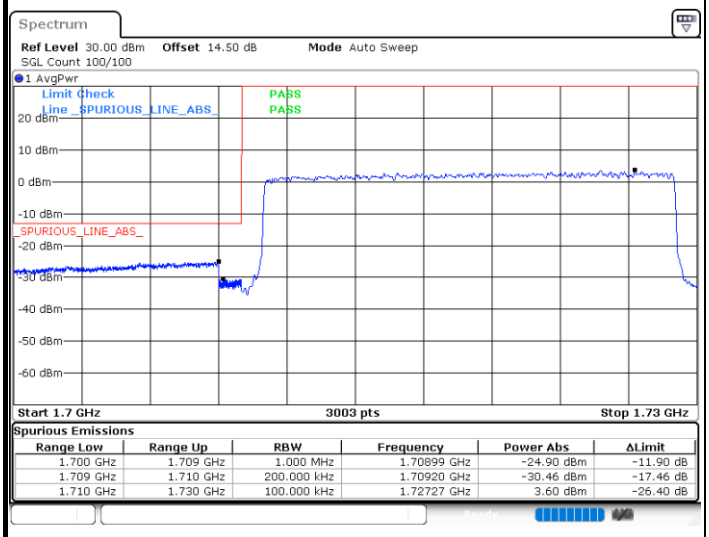
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-24.90 dBm	-11.90 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70920 GHz	-30.46 dBm	-17.46 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72727 GHz	3.60 dBm	-26.40 dB

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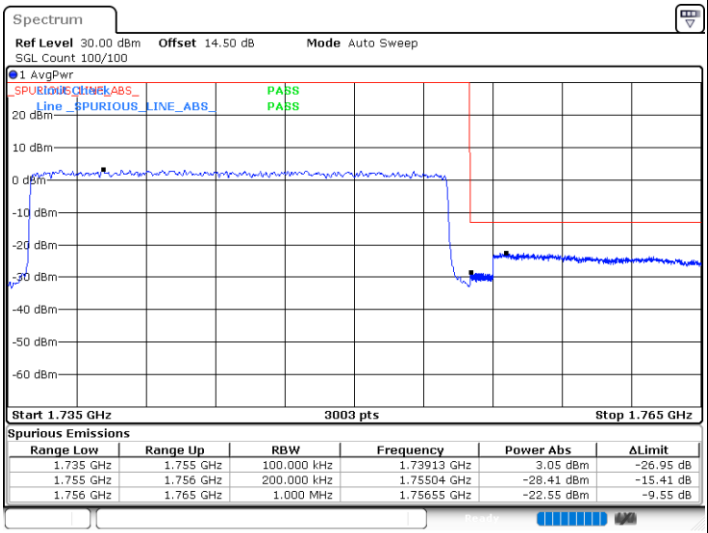
Highest Band Edge / Full RB



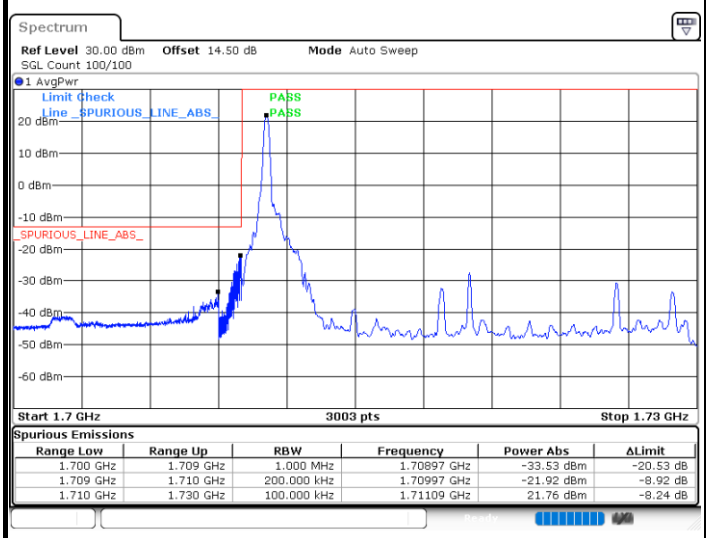
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.73913 GHz	3.05 dBm	-26.95 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75504 GHz	-28.41 dBm	-15.41 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75655 GHz	-22.55 dBm	-9.55 dB

Date: 19.JUN.2024 17:41:27

LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

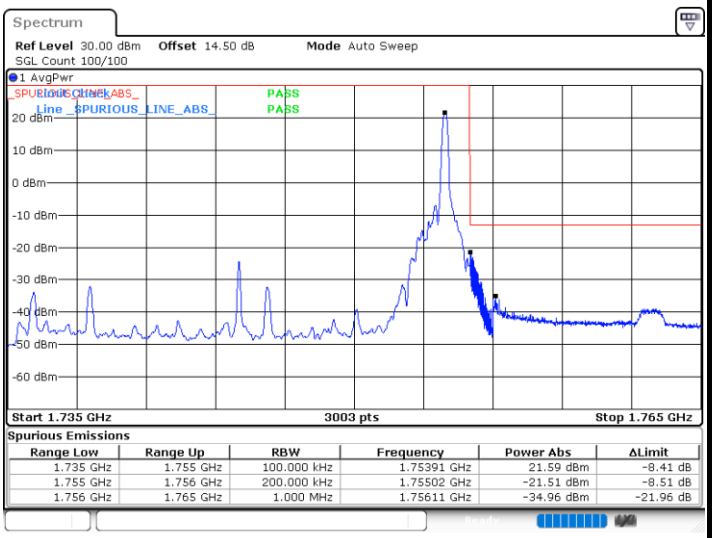


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-33.53 dBm	-20.53 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70997 GHz	-21.92 dBm	-8.92 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71109 GHz	21.76 dBm	-8.24 dB

Date: 19.JUN.2024 17:28:30

Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75391 GHz	21.59 dBm	-8.41 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75502 GHz	-21.51 dBm	-8.51 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75611 GHz	-34.96 dBm	-21.96 dB

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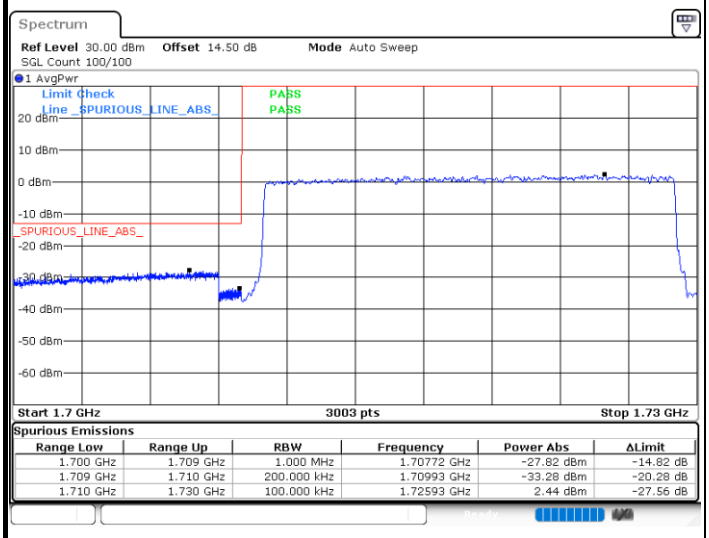
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70772 GHz	-27.82 dBm	-14.82 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70993 GHz	-33.28 dBm	-20.28 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72593 GHz	2.44 dBm	-27.56 dB

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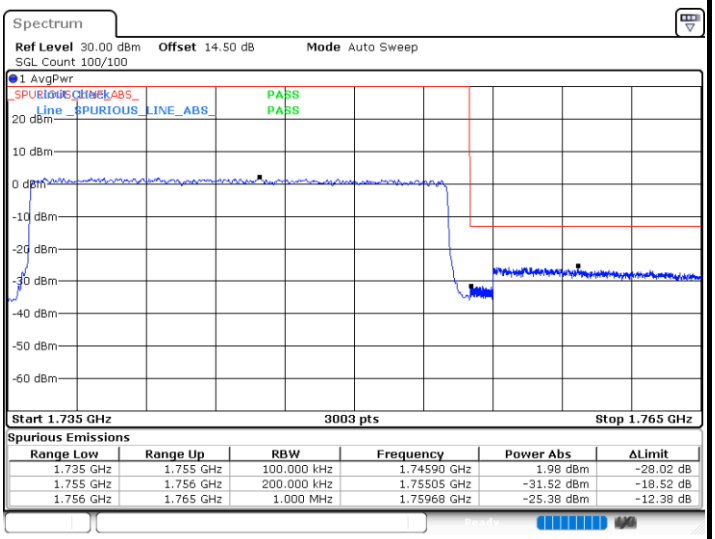
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.74590 GHz	1.98 dBm	-28.02 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75505 GHz	-31.52 dBm	-18.52 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75968 GHz	-25.38 dBm	-12.38 dB

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