FCC RF Test Report

APPLICANT	:	Rolling Wireless S.a r.l.
EQUIPMENT	:	5G module
BRAND NAME	:	Rolling Wireless
MODEL NAME	:	RW350R-GL
FCC ID	:	2AX2URW350RGL
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	Mar. 25, 2024 ~ Apr. 24, 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

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG430728B	Rev. 01	Initial issue of report	Jun. 13, 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 32.90 dB at 5620.50 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

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.2 Manufacturer

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G module
Brand Name	Rolling Wireless
Model Name	RW350R-GL
FCC ID	2AX2URW350RGL
IMEI Code	Conducted: 356413950001474 Radiation: 356413950000682
HW Version	V1.1
SW Version	81601.0000.00.29.24.13
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~ 2200 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	LTE Band 2 : 23.79 dBm

Antenna	LTE Band 4 : 23.89 dBm LTE Band 5 : 23.63 dBm LTE CA_5B : 23.53 dBm LTE Band 25 : 23.82 dBm LTE Band 26 : 23.67 dBm LTE Band 66 : 23.91 dBm LTE CA_66B : 21.73 dBm LTE CA_66C : 21.80 dBm
Antenna Type	External Monopole Antenna or External PIFA Antenna
Antenna Gain	LTE Band 2 : 4 dBi LTE Band 4 : 3 dBi LTE Band 5 : 3 dBi LTE Band 25 : 4 dBi LTE Band 26 : 3 dBi LTE Band 66 : 3 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The device has two optional antennas, they are same antenna gain, RSE pretest the two antennas, choose worst antenna to perform final test and recorded in the report.
2. There are two samples under test, sample 1 is 1st source and sample 2 is 2nd source, the detailed differences could be referred to the RW350R-GL_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 perform full test, sample 2 verify conducted power and found less than sample 1, and sample 2 additional verify the worst case of RSE.

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.2307	1M09G7D	0.1820	1M10W7D
3	1851.5 ~ 1908.5	0.2296	2M73G7D	0.2004	2M70W7D
5	1852.5 ~ 1907.5	0.2280	4M45G7D	0.2032	4M50W7D
10	1855.0 ~ 1905.0	0.2296	9M03G7D	0.2000	9M03W7D
15	1857.5 ~ 1902.5	0.2317	13M5G7D	0.2000	13M5W7D
20	1860.0 ~ 1900.0	0.2393	17M9G7D	0.1963	17M9W7D
LTE Band 25		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1914.3	0.2208	1M09G7D	0.1928	1M10W7D
3	1851.5 ~ 1913.5	0.2198	2M73G7D	0.1905	2M70W7D
5	1852.5 ~ 1912.5	0.2239	4M45G7D	0.1892	4M50W7D
10	1855.0 ~ 1910.0	0.2218	9M03G7D	0.1919	9M03W7D
15	1857.5 ~ 1907.5	0.2234	13M5G7D	0.1910	13M5W7D
20	1860.0 ~ 1905.0	0.2410	17M9G7D	0.1954	17M9W7D
LTE Band 4		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.2399	1M09G7D	0.2004	1M09W7D
3	1711.5 ~ 1753.5	0.2421	2M70G7D	0.2000	2M72W7D
5	1712.5 ~ 1752.5	0.2421	4M47G7D	0.2009	4M49W7D
10	1715.0 ~ 1750.0	0.2410	9M09G7D	0.1968	9M01W7D
15	1717.5 ~ 1747.5	0.2415	13M5G7D	0.2018	13M5W7D
20	1720.0 ~ 1745.0	0.2449	17M9G7D	0.2051	17M9W7D

LTE Band 5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.2183	1M09G7D	0.1871	1M09W7D
3	825.5 ~ 847.5	0.2163	2M73G7D	0.1849	2M70W7D
5	826.5 ~ 846.5	0.2198	4M49G7D	0.1849	4M49W7D
10	829.0 ~ 844.0	0.2307	9M07G7D	0.1892	8M99W7D
LTE Band 26		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**
1.4	824.7 ~ 848.3	0.2148	1M09G7D	0.1905	1M09W7D
3	825.5 ~ 847.5	0.2163	2M73G7D	0.1803	2M70W7D
5	826.5 ~ 846.5	0.2143	4M49G7D	0.1799	4M49W7D
10	829.0 ~ 844.0	0.2153	9M07G7D	0.1774	8M99W7D
15	831.5 ~ 841.5	0.2328	13M4G7D	0.1854	13M4W7D
CH26790	824.0	0.2249	13M5G7D	0.1799	13M4W7D
LTE Band 66		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**
1.4	1710.7 ~ 1779.3	0.2339	1M09G7D	0.1959	1M09W7D
3	1711.5 ~ 1778.5	0.2280	2M70G7D	0.1982	2M72W7D
5	1712.5 ~ 1777.5	0.2301	4M47G7D	0.1968	4M49W7D
10	1715.0 ~ 1775.0	0.2301	9M09G7D	0.1982	9M01W7D
15	1717.5 ~ 1772.5	0.2344	13M5G7D	0.1968	13M5W7D
20	1720.0 ~ 1770.0	0.2460	17M9G7D	0.2032	17M9W7D
LTE Band CA_5B		**QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)		**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**
3MHz+5MHz		0.2065	7M61G7D	0.1690	7M48W7D
5MHz+3MHz		0.2113	7M66G7D	0.1652	7M61W7D
5MHz+10MHz		0.2118	13M9G7D	0.1687	13M9W7D
10MHz+5MHz		0.2113	13M9G7D	0.1675	13M9W7D
10MHz+10MHz		0.2254	18M7G7D	0.1698	18M7W7D

LTE Band CA_66B	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+5MHz	0.1455	9M29G7D	0.1288	9M29W7D
5MHz+10MHz	0.1449	13M7G7D	0.1291	13M7W7D
5MHz+15MHz	0.1439	18M2G7D	0.1276	17M9W7D
10MHz+5MHz	0.1429	13M9G7D	0.1288	13M9W7D
10MHz+10MHz	0.1489	18M8G7D	0.1358	18M7W7D
15MHz+5MHz	0.1445	18M2G7D	0.1282	18M2W7D

LTE Band CA_66C	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+20MHz	0.1452	23M2G7D	0.1330	23M2W7D
10MHz+15MHz	0.1459	23M3G7D	0.1312	23M3W7D
10MHz+20MHz	0.1472	27M8G7D	0.1318	27M9W7D
15MHz+10MHz	0.1472	23M4G7D	0.1321	23M2W7D
15MHz+15MHz	0.1455	28M5G7D	0.1303	28M6W7D
15MHz+20MHz	0.1472	32M7G7D	0.1318	32M8W7D
20MHz+5MHz	0.1479	23M3G7D	0.1321	23M2W7D
20MHz+10MHz	0.1479	27M9G7D	0.1312	27M9W7D
20MHz+15MHz	0.1462	32M8G7D	0.1312	32M9W7D
20MHz+20MHz	0.1514	37M6G7D	0.1365	37M6W7D

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 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.
3. 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.**
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-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 Plane)

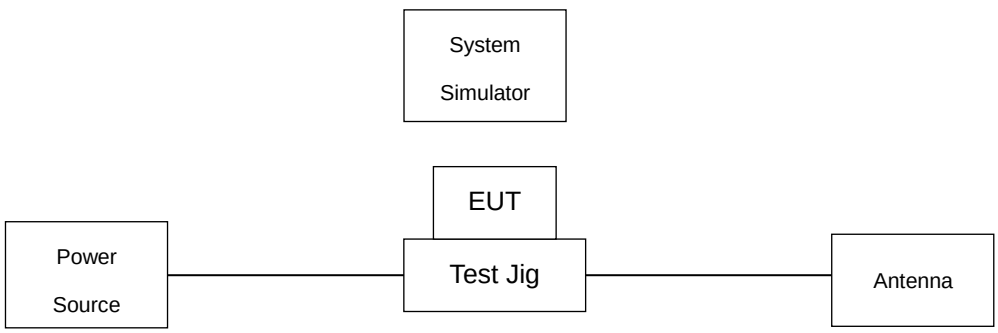
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	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	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	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	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
Conducted Spurious Emission	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	25				v			v						v		v	
	26				v		-	v						v		v	
	66				v			v						v		v	

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v	v	v	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	v	v
	26	Worst Case													v	v	v
	66	Worst Case													v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

Test Items	Band	Bandwidth (MHz)								Modulation				RB #			Test Channel		
		10+10	15+5	5+15	10+5	5+10	5+5	5+3	3+5	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	5B_CA	v	-	-	v	v	-	v	v	v	v	v	v	v			v	v	v
	66B_CA	v	v	v	v	v	v	-	-	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	5B_CA	v	-	-	v	v	-	v	v	v	v					v		v	
	66B_CA	v	v	v	v	v	v	-	-	v	v					v		v	
Conducted Band Edge	5B_CA	v	-	-	v	v	-	v	v	v	v	v		v		v	v		v
	66B_CA	v	v	v	v	v	v	-	-	v	v	v		v		v	v		v
Conducted Spurious Emission	5B_CA	v	-	-	v	v	-	v	v	v				v			v	v	v
	66B_CA	v	v	v	v	v	v	-	-	v				v			v	v	v
E.I.R.P.	5B_CA	v	-	-	v	v	-	v	v	v	v	v	v	v			v	v	v
	66B_CA	v	v	v	v	v	v	-	-	v	v	v	v	v			v	v	v
Radiated Spurious Emission	5B_CA	Worst Case															v	v	v
	66B_CA	Worst Case															v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All test items are based on engineering evaluation. 5. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																	

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel		
		20+20	20+15	20+10	20+5	15+20	15+15	15+10	10+20	10+15	5+20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v							v	
Conducted Band Edge	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	66C_CA	v	v	v	v	v	v	v	v	v	v	v				v			v	v	v
E.I.R.P.	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	66C_CA	Worst Case																	v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. 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. 3. All test items are based on engineering evaluation. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																				

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

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

2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Example :

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

= 4.0 + 10 = 14.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 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

LTE Band 5B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
3 + 5	PCC	Channel	20416	20501	20586
		Frequency	825.6	834.1	842.6
	SCC	Channel	20455	20540	20625
		Frequency	829.5	838.0	846.5
5 + 3	PCC	Channel	20425	20510	20595
		Frequency	826.5	835.0	843.5
	SCC	Channel	20464	20549	20634
		Frequency	830.4	838.9	847.4
5 + 10	PCC	Channel	20428	20478	20528
		Frequency	826.8	831.8	836.8
	SCC	Channel	20500	20550	20600
		Frequency	834	839	844
10 + 5	PCC	Channel	20450	20500	20550
		Frequency	829	834	839
	SCC	Channel	20522	20572	20622
		Frequency	836.2	841.2	846.2
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829	831.6	834.1
	SCC	Channel	20549	20575	20600

		Frequency	838.9	841.5	844

LTE Band 66C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	132171	132472	132572
		Frequency	1729.9	1760	1770
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	Channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	Channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720	1752.5	1765
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7

5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3
	SCC	Channel	132122	132447	132572
		Frequency	1725	1757.5	1770
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720	1745.1	1750.2
	SCC	Channel	132270	132521	132572
		Frequency	1739.8	1764.9	1770

LTE Band 66B_CA Channel and Frequency List					
BW [MHz]	**Channel/Frequency(MHz)**		**Lowest**	**Middle**	**Highest**
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	132491	132642
		Frequency	1726.8	1761.9	1777
10 + 10	PCC	Channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	Channel	132121	132472	132622
		Frequency	1724.9	1760	1775

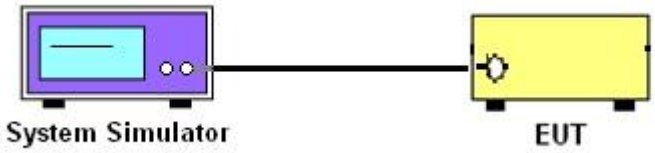
3 Conducted Test Items

3.1 Measuring Instruments

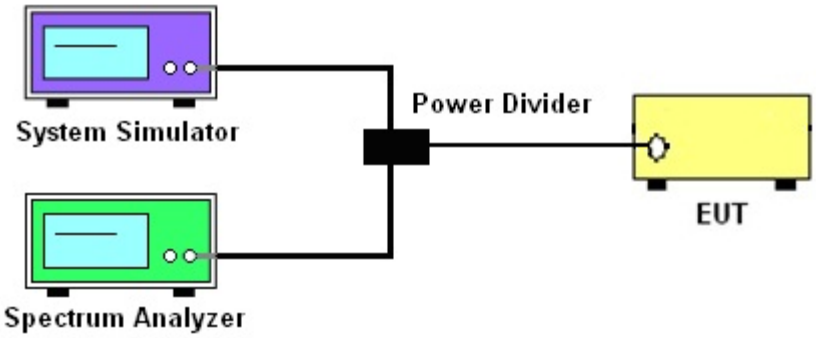
See list of measuring instruments of this test report.

3.2 Test Setup

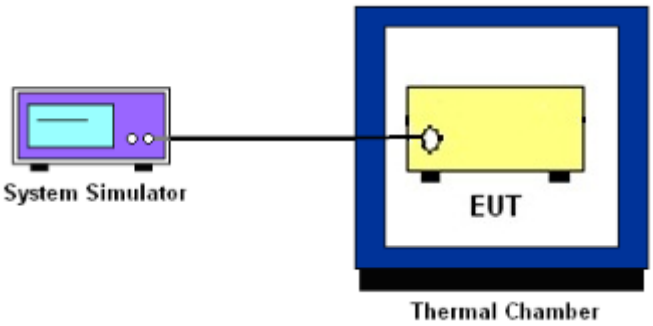
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

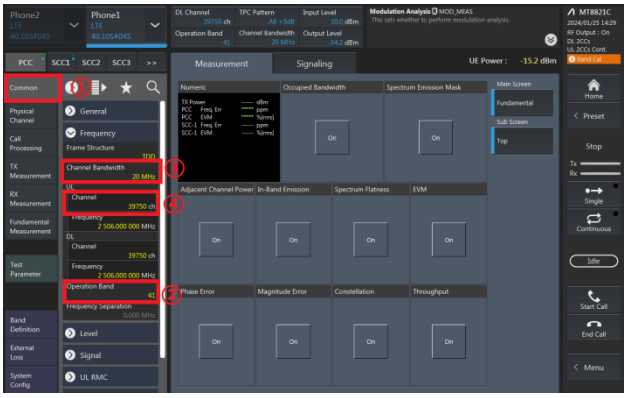
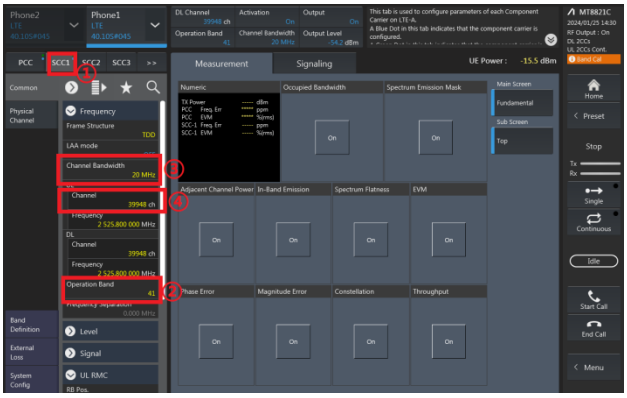
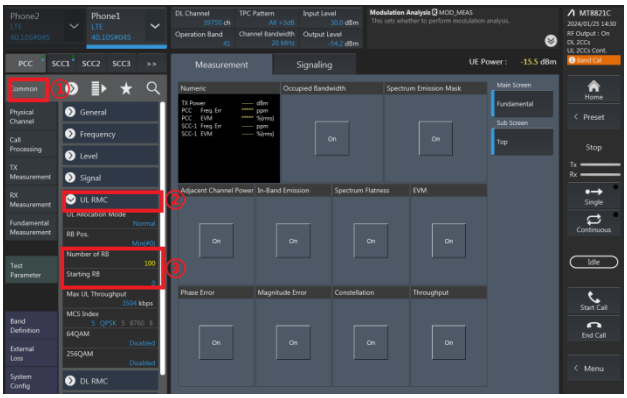
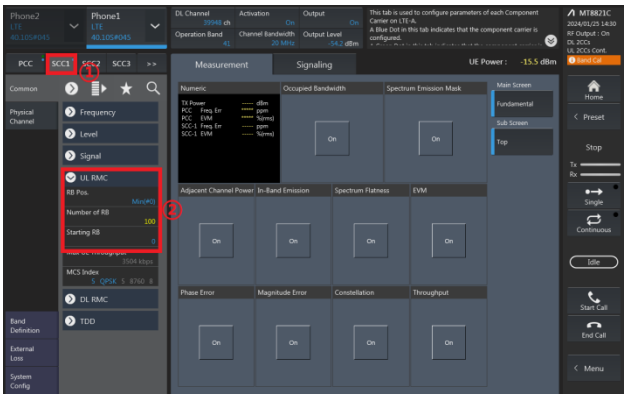
L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

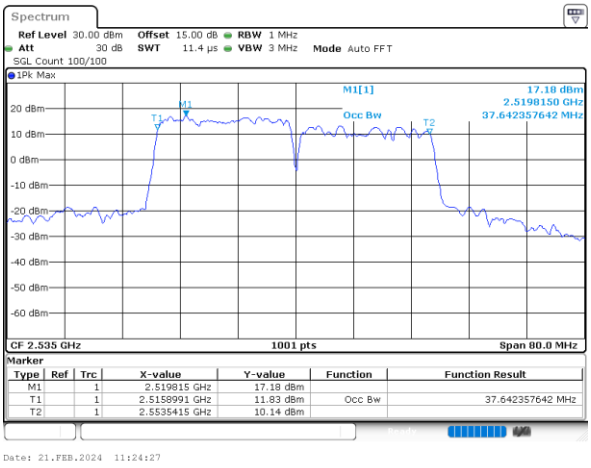
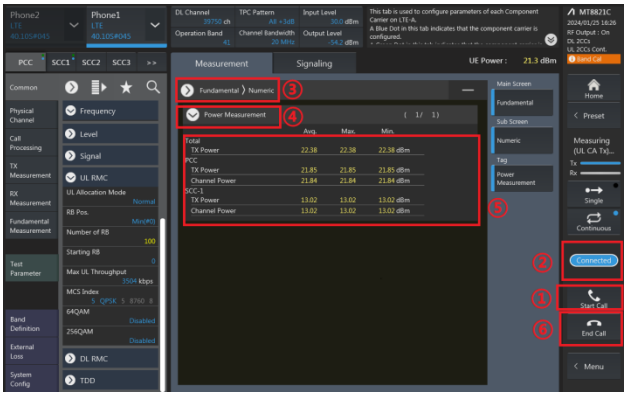
1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from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

3.4.3 Test Procedures for LTE ULCA

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

PCC config_(Channel Bandwidth / Channel / Band)	SCC config_(Channel Bandwidth / Channel / Band)
	
PCC config_(Number of RB / Starting RB)	SCC config_(Number of RB / Starting RB)
	

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

Check the ULCA spectrum (eg. 20M+20M)	Read the Total UL CA output power (PCC+SCC)
	

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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.

3.7.2 Test Procedures

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

   Example:

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

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

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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 + 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

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

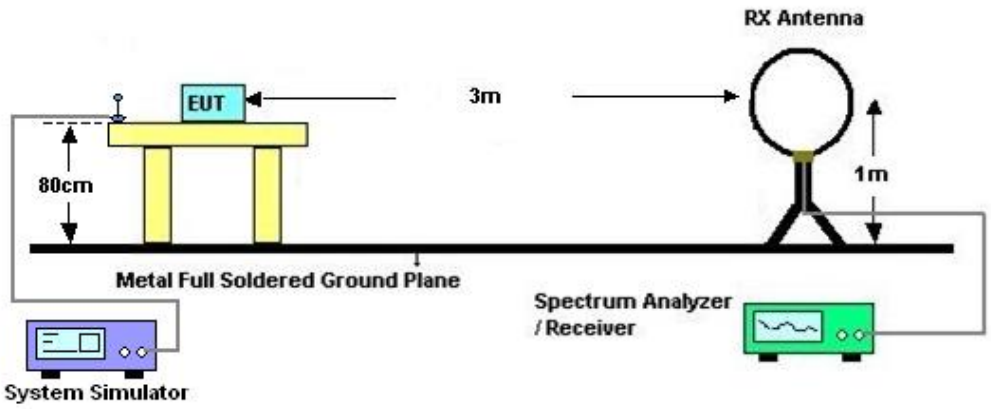
4 Radiated Test Items

4.1 Measuring Instruments

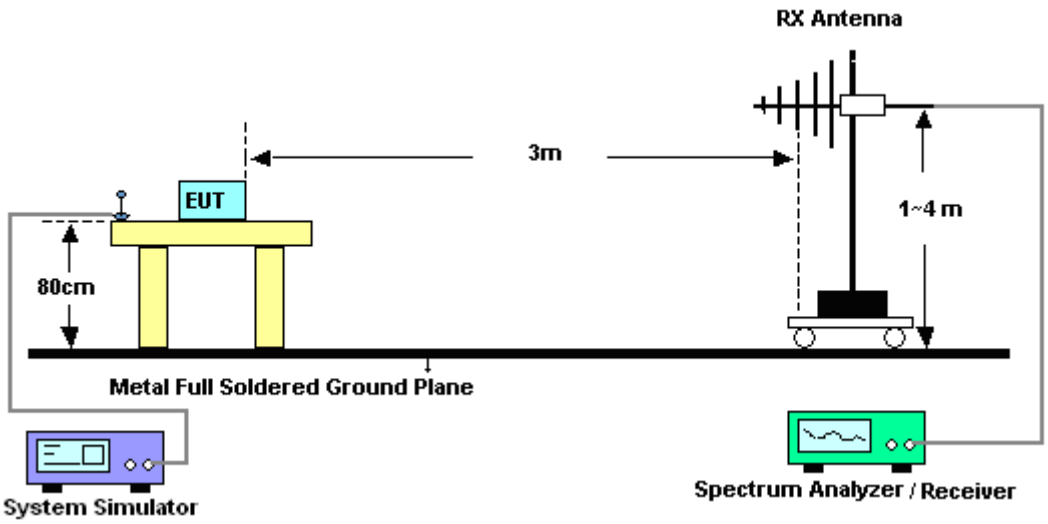
See list of measuring instruments of this test report.

4.2 Test Setup

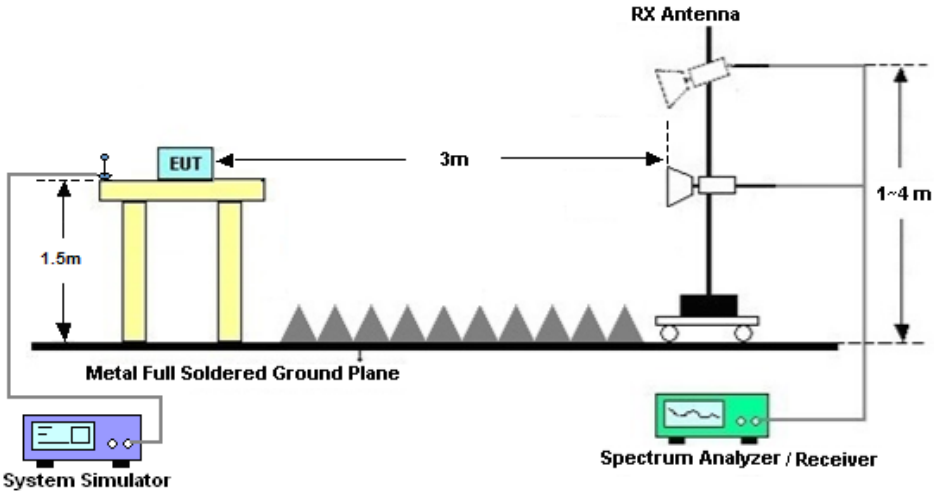
4.2.1 For radiated test below 30MHz



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 (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	101915	10Hz~40GHz	Jul. 05, 2023	Mar. 25, 2024~ Apr. 24, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 16, 2023	Mar. 25, 2024~ Apr. 24, 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	Mar. 25, 2024~ Apr. 24, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Power Divider	SOLVANG TECHNOLOY	STI08-0055	-	Max 40GHz	Mar. 20, 2024	Mar. 25, 2024~ Apr. 24, 2024	Mar. 19, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Mar. 25, 2024~ Apr. 24, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Apr. 10, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Apr. 10, 2024	Jun. 27, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Apr. 10, 2024	Apr. 08, 2025	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Apr. 10, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Apr. 10, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Apr. 10, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Apr. 10, 2024	Jul.06, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Apr. 10, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Apr. 10, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Apr. 10, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 10, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 10, 2024	NCR	Radiation (03CH03-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))	3.0 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8 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

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	23.43	23.79	23.42	0.5534	0.6012	0.5521
20	QPSK	1	49	23.43	23.48	23.56	0.5534	0.5598	0.5702
20	QPSK	1	99	23.42	23.27	23.63	0.5521	0.5333	0.5794
20	QPSK	50	0	22.37	22.56	22.48	0.4335	0.4529	0.4446
20	QPSK	50	24	22.40	22.51	22.56	0.4365	0.4477	0.4529
20	QPSK	50	50	22.38	22.47	22.38	0.4345	0.4436	0.4345
20	QPSK	100	0	22.38	22.48	22.39	0.4345	0.4446	0.4355
20	16QAM	1	0	22.73	22.47	22.93	0.4710	0.4436	0.4932
20	64QAM	1	0	21.15	21.22	21.49	0.3273	0.3327	0.3540
20	256QAM	1	0	18.43	18.49	18.44	0.1750	0.1774	0.1754
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	23.53	23.65	23.44	0.5662	0.5821	0.5546
15	16QAM	1	0	22.86	22.51	23.01	0.4853	0.4477	0.5023
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	23.48	23.61	23.50	0.5598	0.5768	0.5623
10	16QAM	1	0	22.78	22.61	23.01	0.4764	0.4581	0.5023
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	23.50	23.58	23.56	0.5623	0.5728	0.5702
5	16QAM	1	0	22.88	22.52	23.08	0.4875	0.4487	0.5105
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	23.50	23.61	23.54	0.5623	0.5768	0.5675
3	16QAM	1	0	22.87	22.54	23.02	0.4864	0.4508	0.5035
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	23.58	23.63	23.56	0.5728	0.5794	0.5702
1.4	16QAM	1	0	22.46	22.58	22.60	0.4426	0.4550	0.4571

LTE Band 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	23.77	23.73	23.89	0.4753	0.4710	0.4887
20	QPSK	1	49	23.71	23.84	23.82	0.4688	0.4831	0.4808
20	QPSK	1	99	23.75	23.78	23.70	0.4732	0.4764	0.4677
20	QPSK	50	0	22.83	22.75	22.82	0.3828	0.3758	0.3819
20	QPSK	50	24	22.78	22.84	22.81	0.3784	0.3837	0.3811
20	QPSK	50	50	22.80	22.82	22.68	0.3802	0.3819	0.3698
20	QPSK	100	0	22.74	22.79	22.75	0.3750	0.3793	0.3758
20	16QAM	1	0	23.12	23.10	22.72	0.4093	0.4074	0.3733
20	64QAM	1	0	21.53	21.82	22.10	0.2838	0.3034	0.3236
20	256QAM	1	0	18.41	18.46	18.40	0.1384	0.1400	0.1380
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	23.66	23.67	23.83	0.4634	0.4645	0.4819
15	16QAM	1	0	23.05	22.99	22.59	0.4027	0.3972	0.3622
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	23.60	23.64	23.82	0.4571	0.4613	0.4808
10	16QAM	1	0	22.94	22.94	22.63	0.3926	0.3926	0.3656
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	23.70	23.66	23.84	0.4677	0.4634	0.4831
5	16QAM	1	0	22.96	23.03	22.67	0.3945	0.4009	0.3690
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	23.69	23.66	23.84	0.4667	0.4634	0.4831
3	16QAM	1	0	23.01	22.93	22.61	0.3990	0.3917	0.3639
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	23.63	23.63	23.80	0.4603	0.4603	0.4786
1.4	16QAM	1	0	22.95	23.02	22.62	0.3936	0.3999	0.3648

LTE Band 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.50	23.48	23.45	0.2723	0.2710	0.2692
10	QPSK	1	25	23.63	23.54	23.53	0.2805	0.2748	0.2742
10	QPSK	1	49	23.52	23.45	23.46	0.2735	0.2692	0.2698
10	QPSK	25	0	22.55	22.51	22.53	0.2188	0.2168	0.2178
10	QPSK	25	12	22.50	22.47	22.53	0.2163	0.2148	0.2178
10	QPSK	25	25	22.48	22.52	22.44	0.2153	0.2173	0.2133
10	QPSK	50	0	22.55	22.55	22.50	0.2188	0.2188	0.2163
10	16QAM	1	0	22.75	22.69	22.77	0.2291	0.2259	0.2301
10	64QAM	1	0	21.66	21.69	21.60	0.1782	0.1795	0.1758
10	256QAM	1	0	18.31	18.55	18.43	0.0824	0.0871	0.0847
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	23.32	23.42	23.39	0.2612	0.2673	0.2655
5	16QAM	1	0	22.65	22.62	22.67	0.2239	0.2223	0.2249
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	23.35	23.34	23.34	0.2630	0.2624	0.2624
3	16QAM	1	0	22.60	22.53	22.67	0.2213	0.2178	0.2249
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	23.38	23.39	23.29	0.2649	0.2655	0.2594
1.4	16QAM	1	0	22.63	22.53	22.72	0.2228	0.2178	0.2275

LTE Band 25

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	23.48	23.56	23.45	0.5598	0.5702	0.5559
20	QPSK	1	49	23.45	23.82	23.61	0.5559	0.6053	0.5768
20	QPSK	1	99	23.28	23.33	23.54	0.5346	0.5408	0.5675
20	QPSK	50	0	22.35	22.63	22.64	0.4315	0.4603	0.4613
20	QPSK	50	24	22.46	22.58	22.63	0.4426	0.4550	0.4603
20	QPSK	50	50	22.42	22.50	22.50	0.4385	0.4467	0.4467
20	QPSK	100	0	22.35	22.56	22.59	0.4315	0.4529	0.4560
20	16QAM	1	0	22.91	22.89	22.86	0.4909	0.4887	0.4853
20	64QAM	1	0	21.39	21.73	21.54	0.3459	0.3741	0.3581
20	256QAM	1	0	18.37	18.52	18.44	0.1726	0.1786	0.1754
Channel				26115	26340	26615	EIRP(W)		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	23.31	23.49	23.34	0.5383	0.5610	0.5420
15	16QAM	1	0	22.76	22.77	22.81	0.4742	0.4753	0.4797
Channel				26090	26340	26640	EIRP(W)		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	23.37	23.46	23.29	0.5458	0.5572	0.5358
10	16QAM	1	0	22.79	22.83	22.69	0.4775	0.4819	0.4667
Channel				26065	26340	26665	EIRP(W)		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	23.42	23.50	23.40	0.5521	0.5623	0.5495
5	16QAM	1	0	22.77	22.76	22.69	0.4753	0.4742	0.4667
Channel				26055	26340	26675	EIRP(W)		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	23.36	23.42	23.27	0.5445	0.5521	0.5333
3	16QAM	1	0	22.77	22.77	22.80	0.4753	0.4753	0.4786
Channel				26047	26340	26683	EIRP(W)		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	23.32	23.44	23.39	0.5395	0.5546	0.5483
1.4	16QAM	1	0	22.85	22.74	22.68	0.4842	0.4721	0.4656

LTE Band 26

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)			
Channel				26790	26865	26915	26965				
Frequency (MHz)				824	831.5	836.5	841.5	Straddle Ch	L	M	H
15	QPSK	1	0	23.26	23.38	23.40	23.43	0.2576	0.2649	0.2661	0.2679
15	QPSK	1	37	23.52	23.67	23.23	23.50	0.2735	0.2831	0.2559	0.2723
15	QPSK	1	74	23.30	23.39	23.44	23.46	0.2600	0.2655	0.2685	0.2698
15	QPSK	36	0	22.33	22.43	22.25	22.42	0.2080	0.2128	0.2042	0.2123
15	QPSK	36	20	22.30	22.47	22.23	22.42	0.2065	0.2148	0.2032	0.2123
15	QPSK	36	39	22.26	22.40	22.66	22.36	0.2046	0.2113	0.2244	0.2094
15	QPSK	75	0	22.39	22.52	22.38	22.42	0.2109	0.2173	0.2104	0.2123
15	16QAM	1	0	22.55	22.63	22.35	22.68	0.2188	0.2228	0.2089	0.2254
15	64QAM	1	0	21.35	21.55	21.68	21.58	0.1660	0.1738	0.1791	0.1750
15	256QAM	1	0	18.26	18.41	18.49	18.43	0.0815	0.0843	0.0859	0.0847
Channel					26840	26915	26990	ERP(W)			
Frequency (MHz)					829	836.5	844		L	M	H
10	QPSK	1	0		23.24	23.33	23.34		0.2564	0.2618	0.2624
10	16QAM	1	0		22.49	22.29	22.59		0.2158	0.2061	0.2208
Channel					26815	26915	27015	ERP(W)			
Frequency (MHz)					826.5	836.5	846.5		L	M	H
5	QPSK	1	0		23.31	23.23	23.31		0.2606	0.2559	0.2606
5	16QAM	1	0		22.55	22.22	22.51		0.2188	0.2028	0.2168
Channel					26815	26915	27025	ERP(W)			
Frequency (MHz)					825.5	836.5	847.5		L	M	H
3	QPSK	1	0		23.33	23.29	23.35		0.2618	0.2594	0.2630
3	16QAM	1	0		22.56	22.28	22.50		0.2193	0.2056	0.2163
Channel					26797	26915	27033	ERP(W)			
Frequency (MHz)					824.7	836.5	848.3		L	M	H
1.4	QPSK	1	0		23.14	23.27	23.32		0.2506	0.2582	0.2612
1.4	16QAM	1	0		22.80	22.57	22.61		0.2317	0.2198	0.2218

LTE Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	23.65	23.76	23.62	0.4624	0.4742	0.4592
20	QPSK	1	49	23.69	23.91	23.69	0.4667	0.4909	0.4667
20	QPSK	1	99	23.59	23.55	23.62	0.4560	0.4519	0.4592
20	QPSK	50	0	22.73	22.84	22.74	0.3741	0.3837	0.3750
20	QPSK	50	24	22.75	22.78	22.78	0.3758	0.3784	0.3784
20	QPSK	50	50	22.71	22.68	22.61	0.3724	0.3698	0.3639
20	QPSK	100	0	22.68	22.75	22.70	0.3698	0.3758	0.3715
20	16QAM	1	0	22.84	22.88	23.08	0.3837	0.3873	0.4055
20	64QAM	1	0	21.68	21.92	21.96	0.2938	0.3105	0.3133
20	256QAM	1	0	18.35	18.42	18.32	0.1365	0.1387	0.1355
Channel				132047	132322	132597	EIRP(W)		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	23.57	23.70	23.52	0.4539	0.4677	0.4487
15	16QAM	1	0	22.75	22.77	22.94	0.3758	0.3776	0.3926
Channel				132022	132322	132622	EIRP(W)		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	23.52	23.62	23.53	0.4487	0.4592	0.4498
10	16QAM	1	0	22.67	22.73	22.97	0.3690	0.3741	0.3954
Channel				131997	132322	132647	EIRP(W)		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	23.50	23.62	23.47	0.4467	0.4592	0.4436
5	16QAM	1	0	22.72	22.73	22.94	0.3733	0.3741	0.3926
Channel				131987	132322	132657	EIRP(W)		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	23.48	23.58	23.54	0.4446	0.4550	0.4508
3	16QAM	1	0	22.71	22.74	22.97	0.3724	0.3750	0.3954
Channel				131979	132322	132665	EIRP(W)		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	23.51	23.69	23.48	0.4477	0.4667	0.4446
1.4	16QAM	1	0	22.66	22.72	22.92	0.3681	0.3733	0.3908

CA Power

LTE CA_5B

Combination 10MHz+10MHz (50RB+50RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP(W)	
		RB Size	RB offset	RB Size	RB offset			
L	QPSK	1	Max	1	0	23.44	0.2685	
M	QPSK	1	Max	1	0	23.53	0.2742	
H	QPSK	1	Max	1	0	23.29	0.2594	
L	16QAM	1	Max	1	0	22.30	0.2065	
M	16QAM	1	Max	1	0	22.23	0.2032	
H	16QAM	1	Max	1	0	22.27	0.2051	
L	64QAM	1	Max	1	0	20.46	0.1352	
M	64QAM	1	Max	1	0	20.36	0.1321	
H	64QAM	1	Max	1	0	20.42	0.1340	
L	256QAM	1	Max	1	0	18.38	0.0838	
M	256QAM	1	Max	1	0	18.28	0.0818	
H	256QAM	1	Max	1	0	18.33	0.0828	
Combination 10MHz+5MHz (50RB+25RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP(W)	
		RB Size	RB offset	RB Size	RB offset			
M	QPSK	1	Max	1	0	23.25	0.2570	
L	16QAM	1	Max	1	0	22.24	0.2037	
Combination 5MHz+10MHz (25RB+50RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP(W)	
		RB Size	RB offset	RB Size	RB offset			
M	QPSK	1	Max	1	0	23.26	0.2576	
L	16QAM	1	Max	1	0	22.27	0.2051	
Combination 5MHz+3MHz (25RB+15RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP(W)	
		RB Size	RB offset	RB Size	RB offset			
M	QPSK	1	Max	1	0	23.25	0.2570	
L	16QAM	1	Max	1	0	22.18	0.2009	
Combination 3MHz+5MHz (15RB+25RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP(W)	
		RB Size	RB offset	RB Size	RB offset			
M	QPSK	1	Max	1	0	23.15	0.2512	
L	16QAM	1	Max	1	0	22.28	0.2056	

LTE CA_66B

Combination 10MHz+10MHz (50RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.67	0.2931
M	QPSK	1	Max	1	0	21.65	0.2917
H	QPSK	1	Max	1	0	21.73	0.2972
L	16QAM	1	Max	1	0	21.20	0.2630
M	16QAM	1	Max	1	0	21.21	0.2636
H	16QAM	1	Max	1	0	21.33	0.2710
L	64QAM	1	Max	1	0	19.00	0.1585
M	64QAM	1	Max	1	0	19.05	0.1603
H	64QAM	1	Max	1	0	19.08	0.1614
L	256QAM	1	Max	1	0	17.01	0.1002
M	256QAM	1	Max	1	0	16.95	0.0989
H	256QAM	1	Max	1	0	17.05	0.1012
Combination 15MHz+5MHz (75RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.60	0.2884
H	16QAM	1	Max	1	0	21.08	0.2559
Combination 5MHz+15MHz (25RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.58	0.2871
H	16QAM	1	Max	1	0	21.06	0.2547
Combination 10MHz+5MHz (50RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.55	0.2851
H	16QAM	1	Max	1	0	21.10	0.2570
Combination 5MHz+10MHz (25RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.61	0.2891
H	16QAM	1	Max	1	0	21.11	0.2576
Combination 5MHz+5MHz (25RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.63	0.2904
H	16QAM	1	Max	1	0	21.10	0.2570

LTE CA_66C

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.72	0.2965
M	QPSK	1	Max	1	0	21.75	0.2985
H	QPSK	1	Max	1	0	21.80	0.3020
L	16QAM	1	Max	1	0	21.25	0.2661
M	16QAM	1	Max	1	0	21.22	0.2642
H	16QAM	1	Max	1	0	21.35	0.2723
L	64QAM	1	Max	1	0	19.05	0.1603
M	64QAM	1	Max	1	0	19.10	0.1622
H	64QAM	1	Max	1	0	19.11	0.1626
L	256QAM	1	Max	1	0	17.03	0.1007
M	256QAM	1	Max	1	0	16.98	0.0995
H	256QAM	1	Max	1	0	17.08	0.1019
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.65	0.2917
H	16QAM	1	Max	1	0	21.18	0.2618
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.68	0.2938
H	16QAM	1	Max	1	0	21.20	0.2630
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.63	0.2904
H	16QAM	1	Max	1	0	21.15	0.2600
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.70	0.2951
H	16QAM	1	Max	1	0	21.18	0.2618
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.68	0.2938
H	16QAM	1	Max	1	0	21.20	0.2630
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.68	0.2938
H	16QAM	1	Max	1	0	21.21	0.2636
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.64	0.2911
H	16QAM	1	Max	1	0	21.18	0.2618
Combination 20MHz+5MHz (100RB+25RB)							

Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.70	0.2951
H	16QAM	1	Max	1	0	21.21	0.2636
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.62	0.2897
H	16QAM	1	Max	1	0	21.24	0.2655

LTE Band 5B

26dB Bandwidth

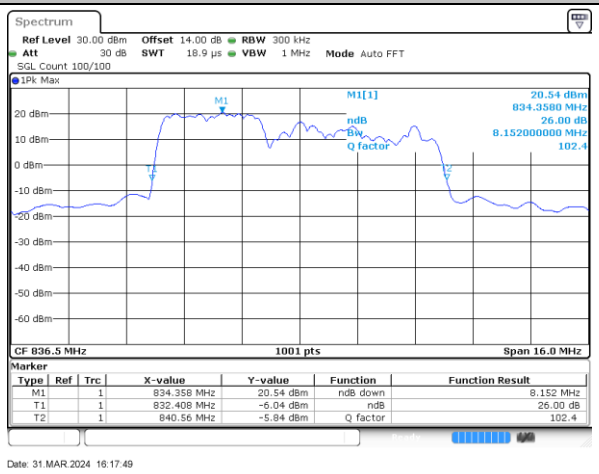
Mode	LTE Band 5B : 26dB BW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.15	8.15	14.51
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.69	19.86	-

Mode	LTE Band 5B : 26dB BW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	8.07	8.20	14.54
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	14.54	19.70	-

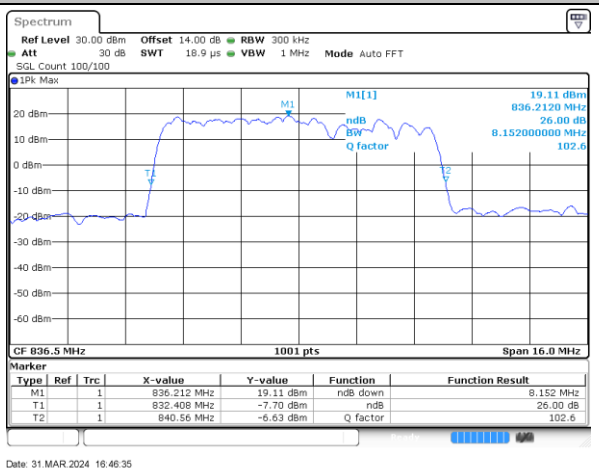
LTE Band 5B

QPSK

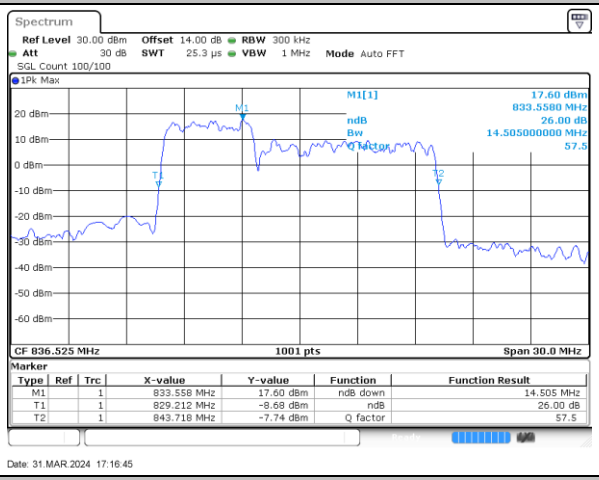
Middle Channel / 3MHz+5MHz



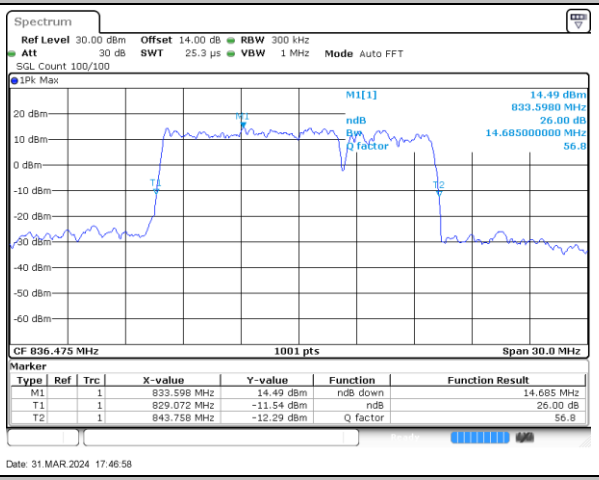
Middle Channel / 5MHz+3MHz



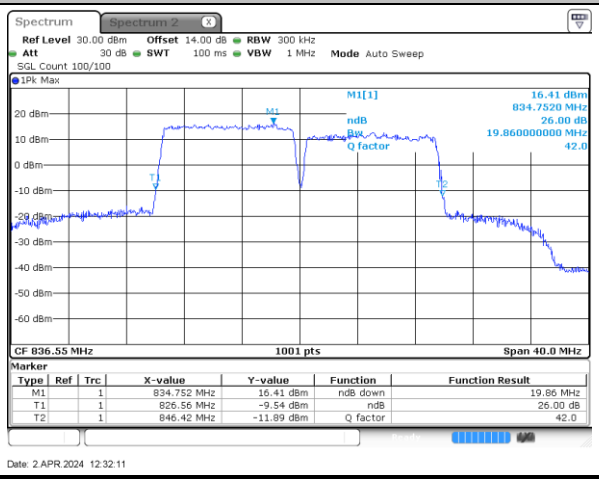
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz

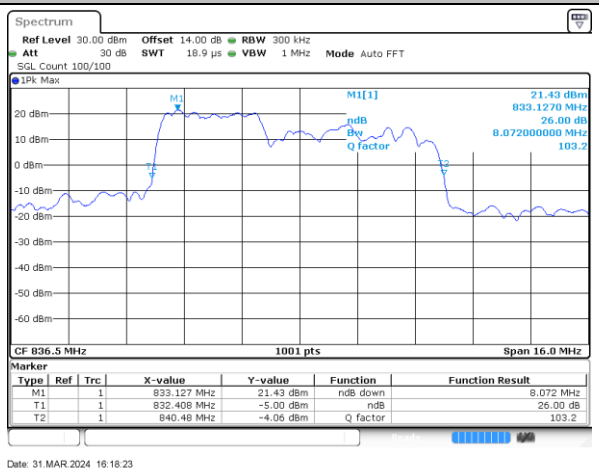


N/A

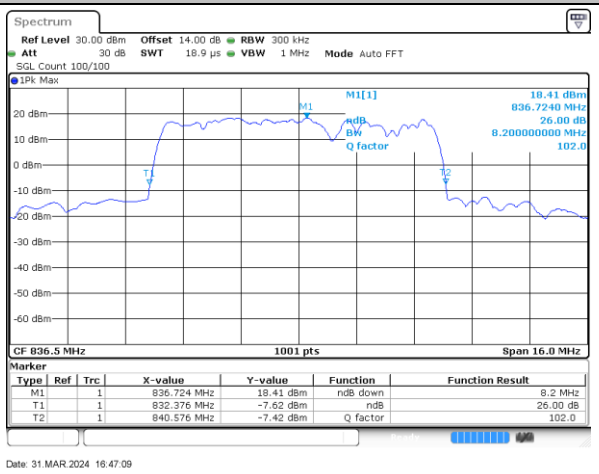
LTE Band 5B

16QAM

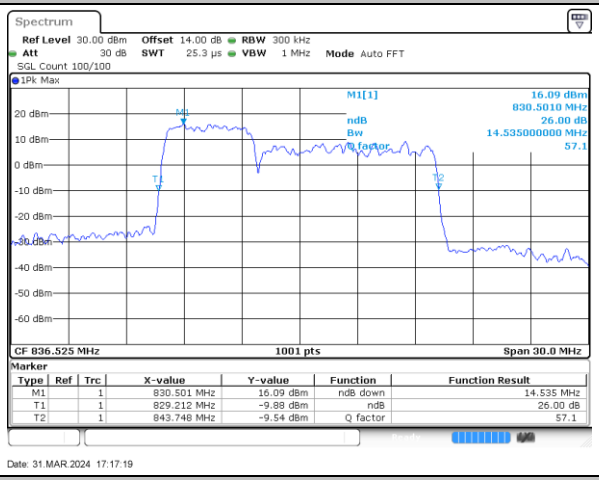
Middle Channel / 3MHz+5MHz



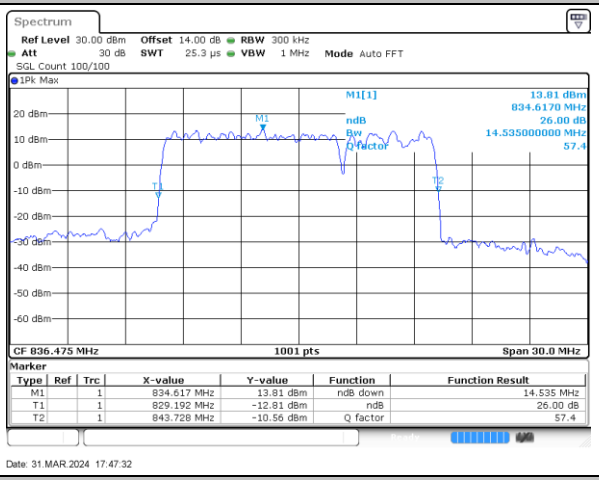
Middle Channel / 5MHz+3MHz



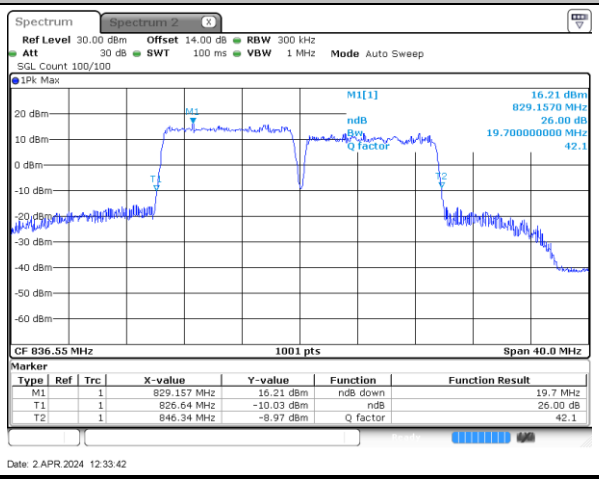
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz



N/A

Occupied Bandwidth

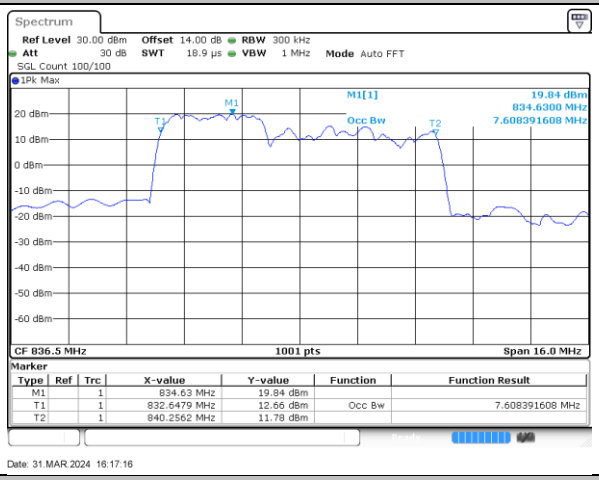
Mode	LTE Band 5B : 99%OBW(MHz)		
QPSK			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.61	7.66	13.85
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.91	18.70	-

Mode	LTE Band 5B : 99%OBW(MHz)		
16QAM			
BW	3MHz+5MHz	5MHz+3MHz	5MHz+10MHz
Middle CH	7.48	7.61	13.91
BW	10MHz+5MHz	10MHz+10MHz	N/A
Middle CH	13.85	18.66	-

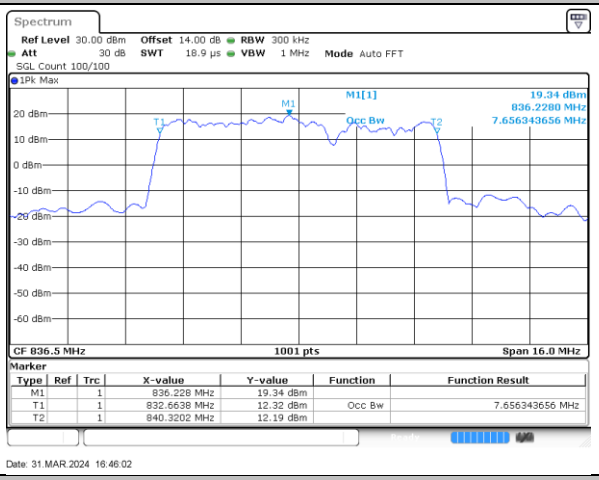
LTE Band 5B

QPSK

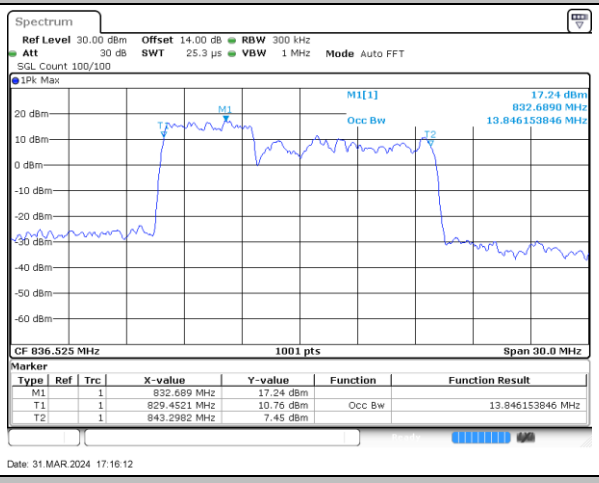
Middle Channel / 3MHz+5MHz



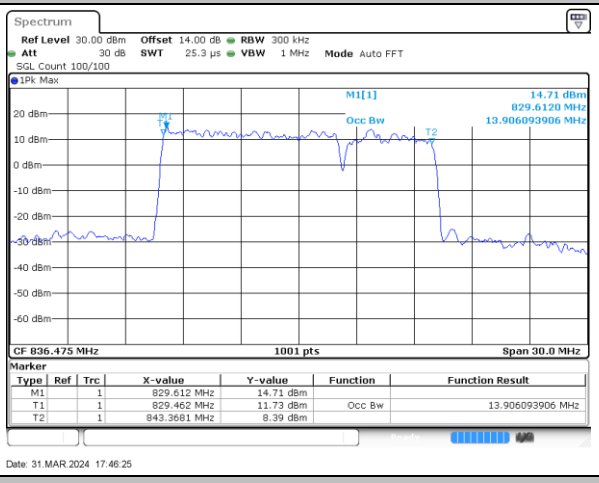
Middle Channel / 5MHz+3MHz



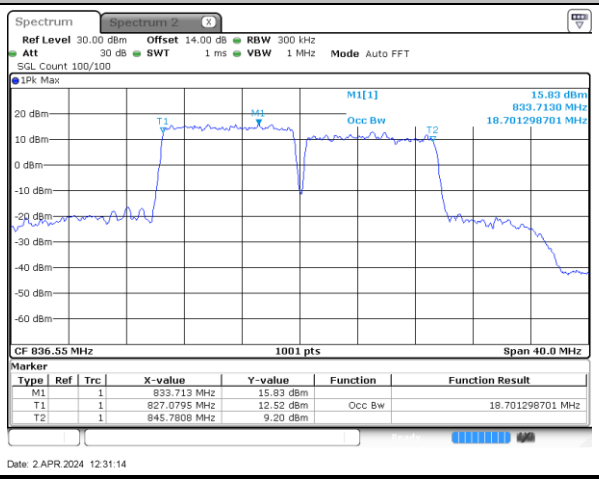
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz

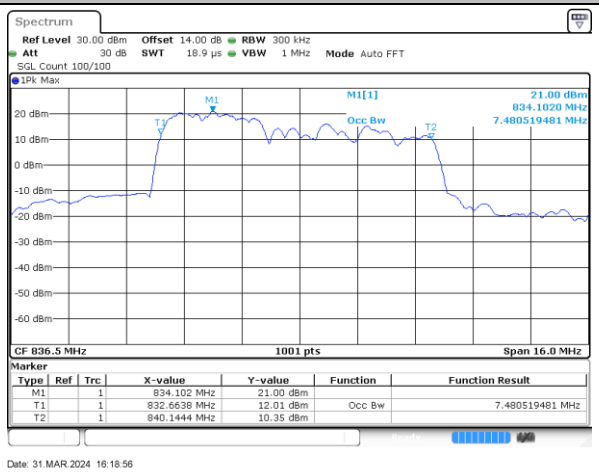


N/A

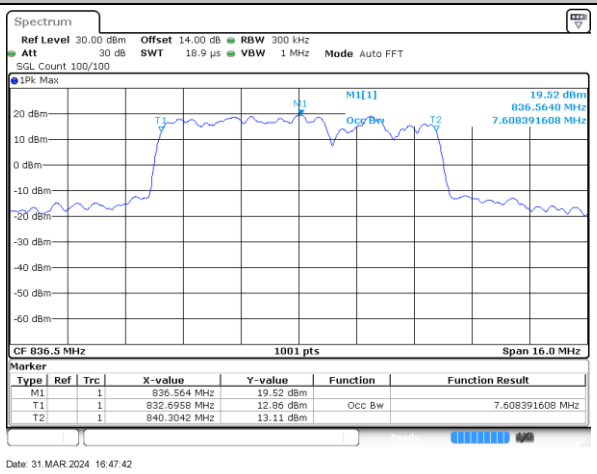
LTE Band 5B

16QAM

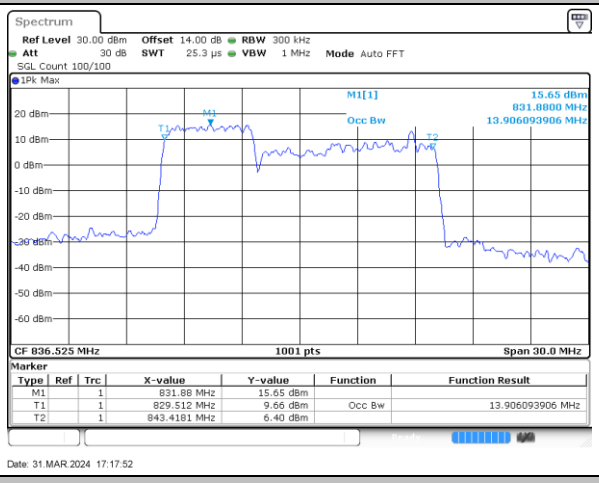
Middle Channel / 3MHz+5MHz



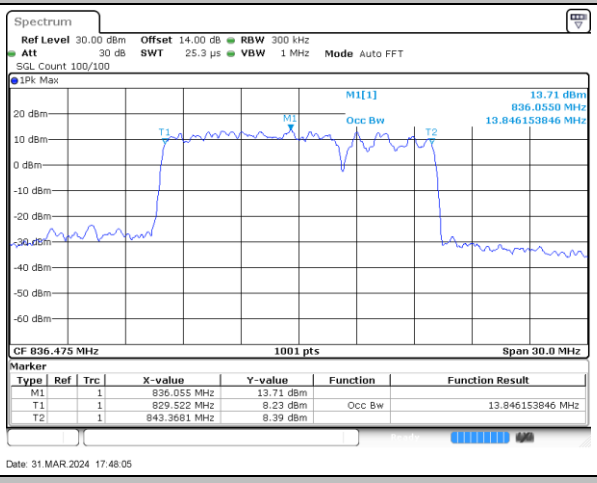
Middle Channel / 5MHz+3MHz



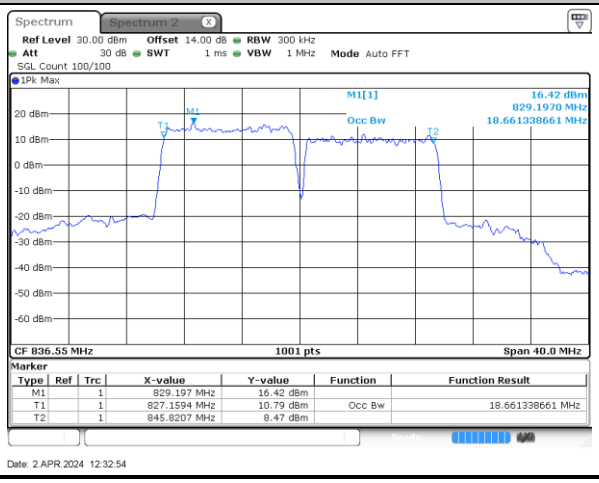
Middle Channel / 5MHz+10MHz



Middle Channel / 10MHz+5MHz



Middle Channel / 10MHz+10MHz



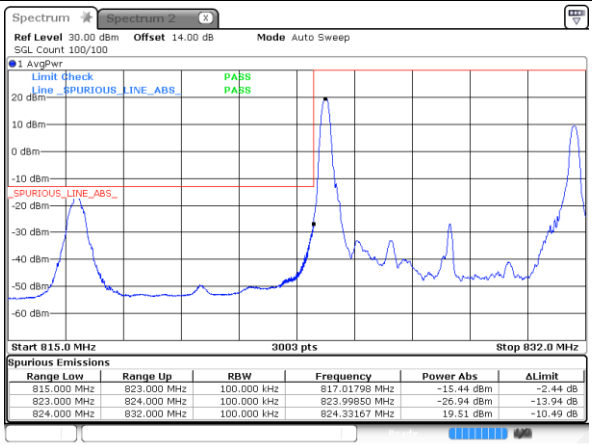
N/A

Conducted Band Edge

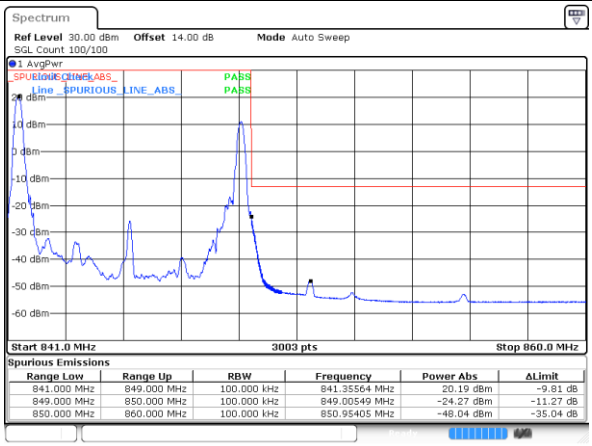
LTE Band 5B / 3MHz+5MHz

QPSK

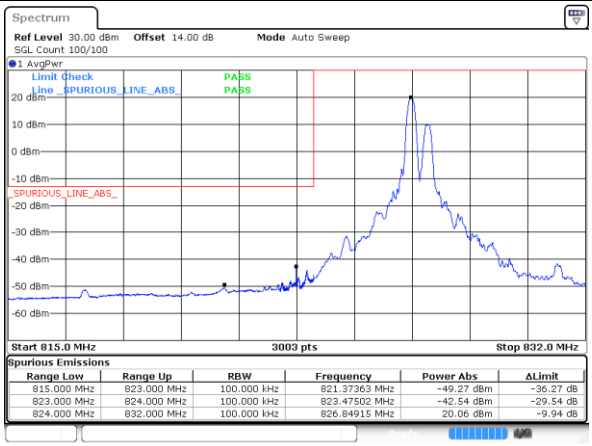
Lowest Band Edge / 1RB0 and 1RB24



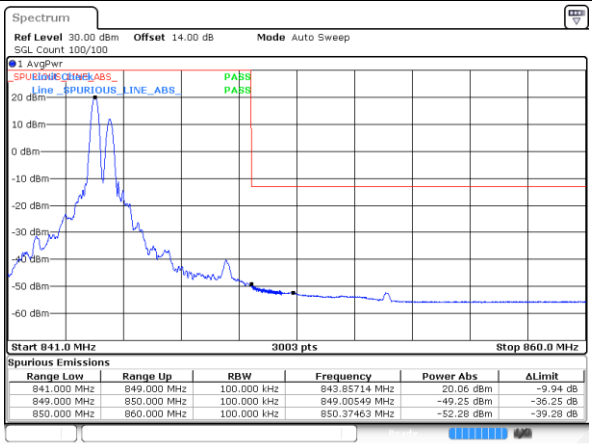
Highest Band Edge / 1RB0 and 1RB24



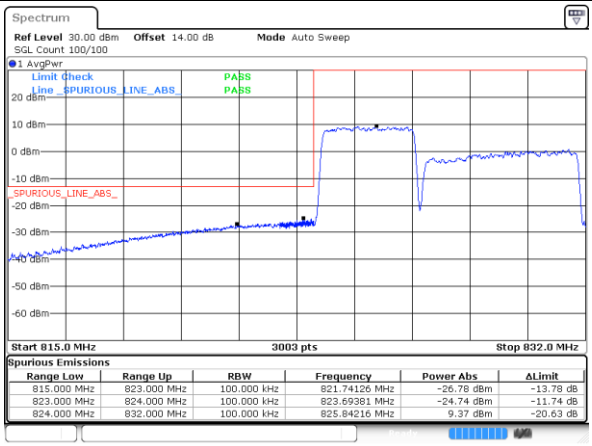
Lowest Band Edge / 1RB14 and 1RB0



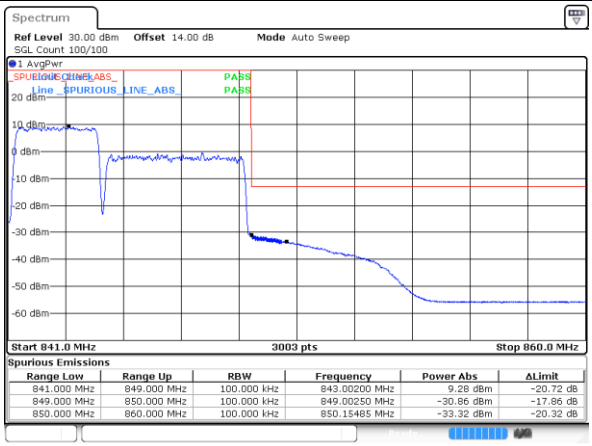
Highest Band Edge / 1RB14 and 1RB0



Lowest Band Edge / Full RB



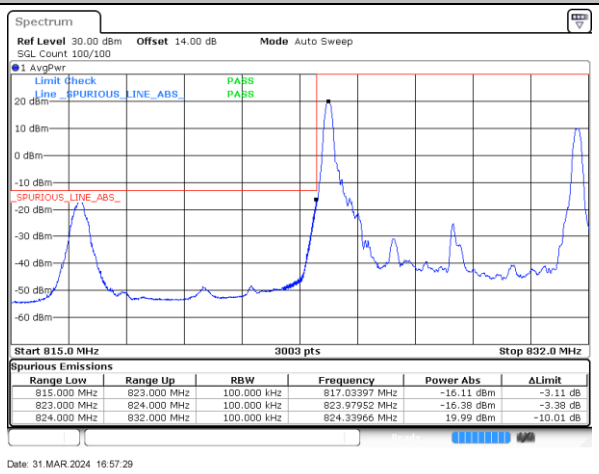
Highest Band Edge / Full RB



LTE Band 5B / 5MHz+3MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB14

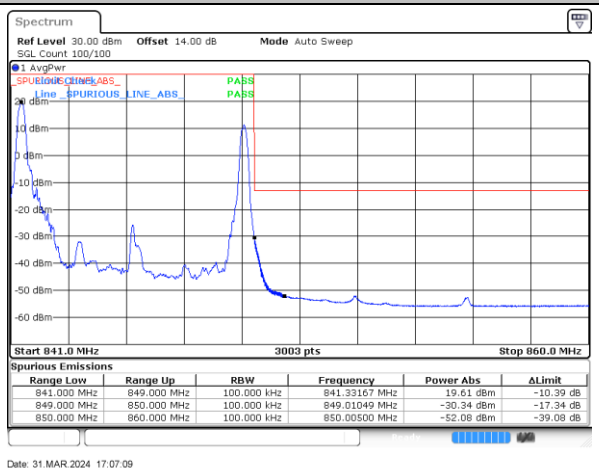


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	817.03397 MHz	-16.11 dBm	-3.11 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.97952 MHz	-16.38 dBm	-3.38 dB
824.000 MHz	832.000 MHz	100.000 kHz	824.33966 MHz	19.99 dBm	-10.01 dB

Date: 31.MAR.2024 16:57:29

Highest Band Edge / 1RB0 and 1RB14

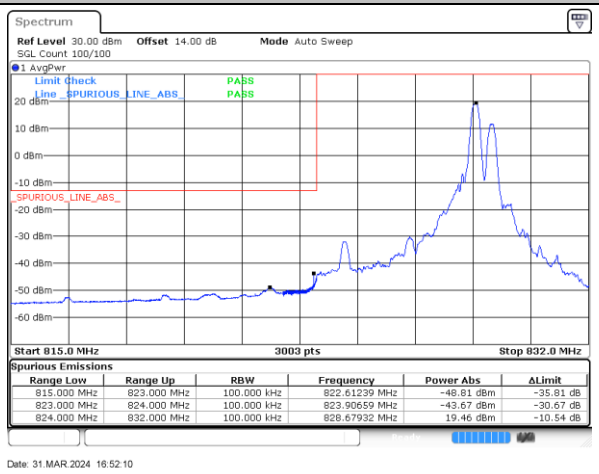


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	841.33167 MHz	19.61 dBm	-10.39 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.01049 MHz	-30.34 dBm	-17.34 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.00500 MHz	-52.08 dBm	-39.08 dB

Date: 31.MAR.2024 17:07:09

Lowest Band Edge / 1RB24 and 1RB0

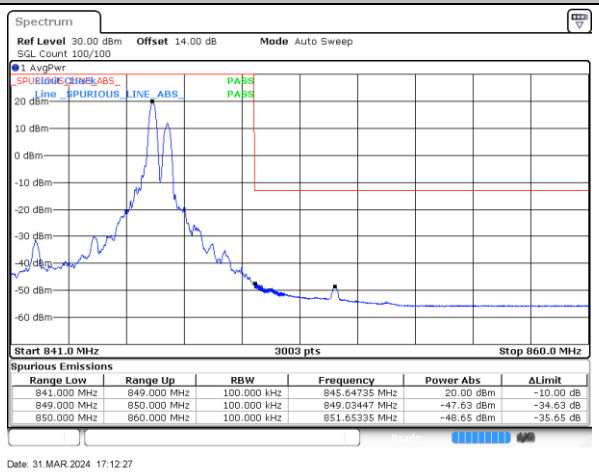


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.61239 MHz	-48.81 dBm	-35.81 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.90659 MHz	-43.67 dBm	-30.67 dB
824.000 MHz	832.000 MHz	100.000 kHz	828.67932 MHz	19.46 dBm	-10.54 dB

Date: 31.MAR.2024 16:52:10

Highest Band Edge / 1RB24 and 1RB0

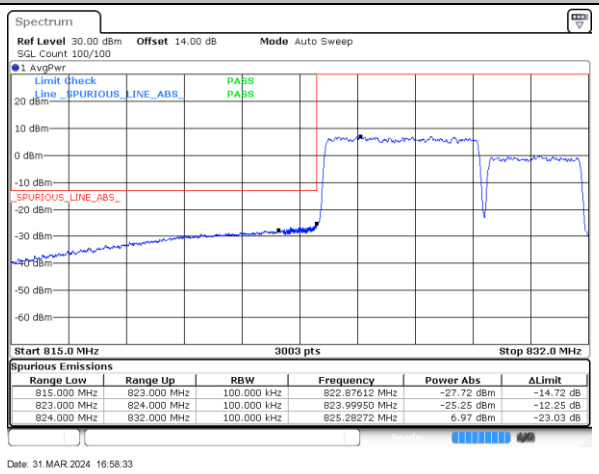


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	845.64735 MHz	20.00 dBm	-10.00 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.03447 MHz	-47.63 dBm	-34.63 dB
850.000 MHz	860.000 MHz	100.000 kHz	851.65335 MHz	-48.65 dBm	-35.65 dB

Date: 31.MAR.2024 17:12:27

Lowest Band Edge / Full RB

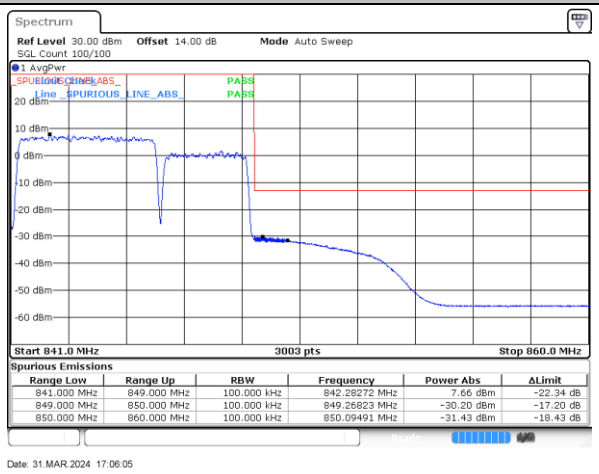


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.87612 MHz	-27.72 dBm	-14.72 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99950 MHz	-25.25 dBm	-12.25 dB
824.000 MHz	832.000 MHz	100.000 kHz	825.28272 MHz	6.97 dBm	-23.03 dB

Date: 31.MAR.2024 16:58:33

Highest Band Edge / Full RB



Spurious Emissions

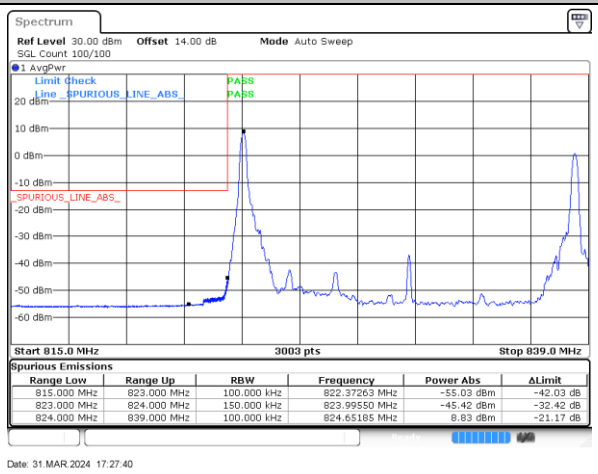
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	842.28272 MHz	7.66 dBm	-22.34 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.26823 MHz	-30.20 dBm	-17.20 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.09491 MHz	-31.43 dBm	-18.43 dB

Date: 31.MAR.2024 17:06:05

LTE Band 5B / 5MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

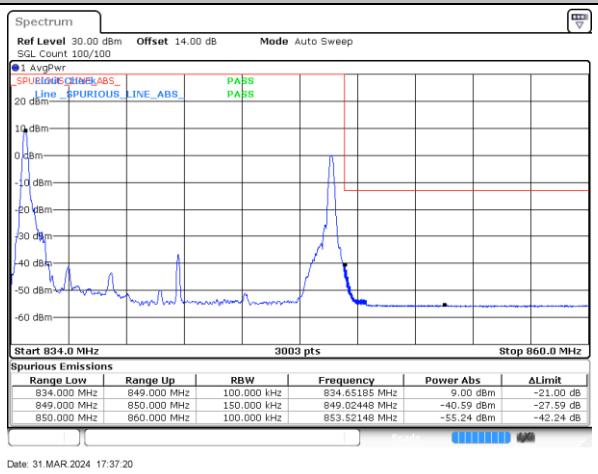


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.37263 MHz	-55.03 dBm	-42.03 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.99550 MHz	-45.42 dBm	-32.42 dB
824.000 MHz	839.000 MHz	100.000 kHz	824.65185 MHz	8.83 dBm	-21.17 dB

Date: 31.MAR.2024 17:27:40

Highest Band Edge / 1RB0 and 1RB49

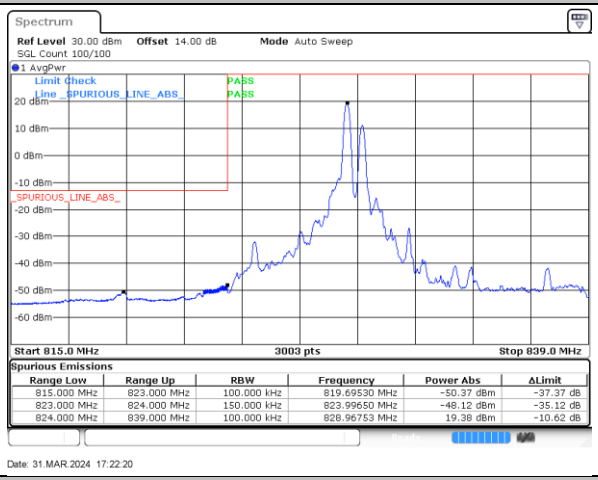


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	834.65185 MHz	9.00 dBm	-21.00 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.02448 MHz	-40.59 dBm	-27.59 dB
850.000 MHz	860.000 MHz	100.000 kHz	853.52148 MHz	-55.24 dBm	-42.24 dB

Date: 31.MAR.2024 17:37:20

Lowest Band Edge / 1RB24 and 1RB0

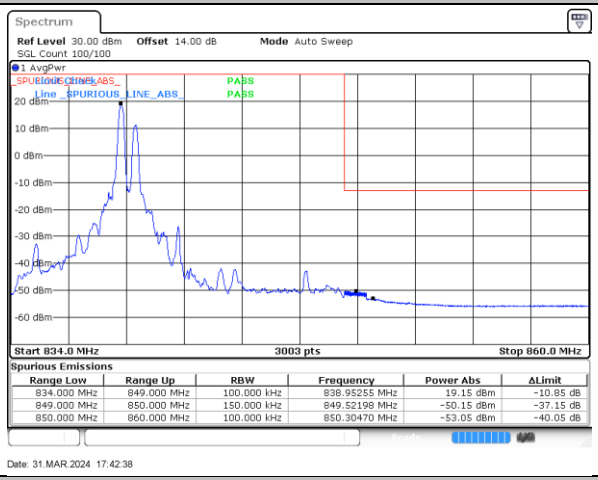


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	819.69530 MHz	-50.37 dBm	-37.37 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.99650 MHz	-48.12 dBm	-35.12 dB
824.000 MHz	839.000 MHz	100.000 kHz	828.96753 MHz	19.38 dBm	-10.62 dB

Date: 31.MAR.2024 17:22:20

Highest Band Edge / 1RB24 and 1RB0

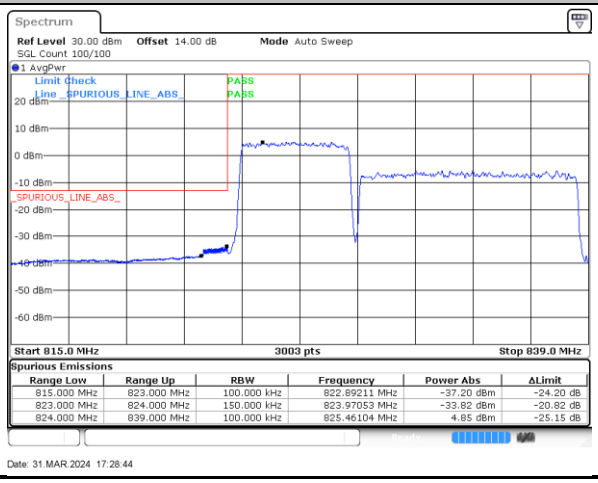


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	838.95255 MHz	19.15 dBm	-10.85 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.52198 MHz	-50.15 dBm	-37.15 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.30470 MHz	-53.05 dBm	-40.05 dB

Date: 31.MAR.2024 17:42:38

Lowest Band Edge / Full RB

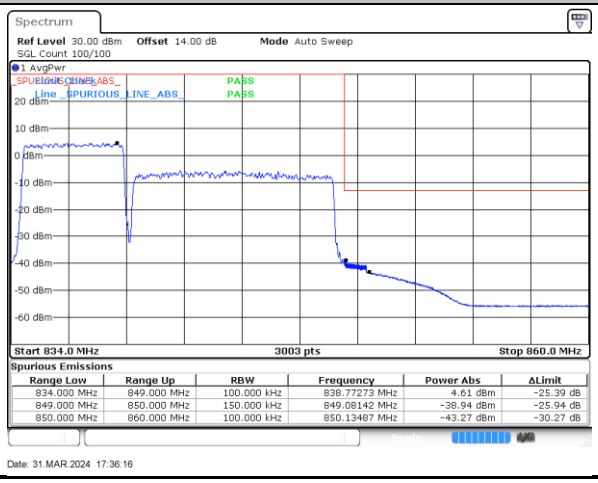


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.89211 MHz	-37.20 dBm	-24.20 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.97053 MHz	-33.82 dBm	-20.82 dB
824.000 MHz	839.000 MHz	100.000 kHz	825.46104 MHz	4.85 dBm	-25.15 dB

Date: 31.MAR.2024 17:28:44

Highest Band Edge / Full RB



Spurious Emissions

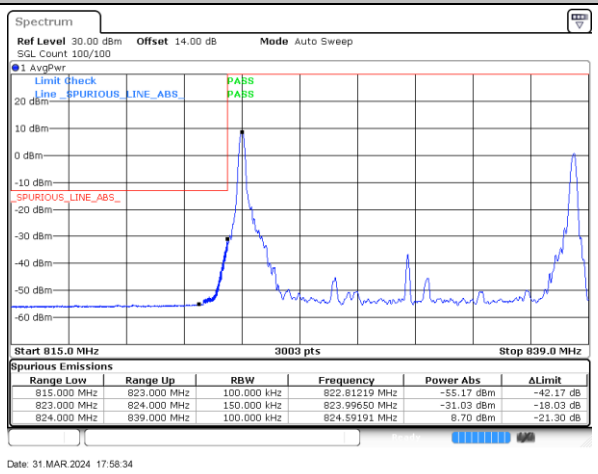
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	838.77273 MHz	4.61 dBm	-25.39 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.08142 MHz	-38.94 dBm	-25.94 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.13487 MHz	-43.27 dBm	-30.27 dB

Date: 31.MAR.2024 17:36:16

LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB24

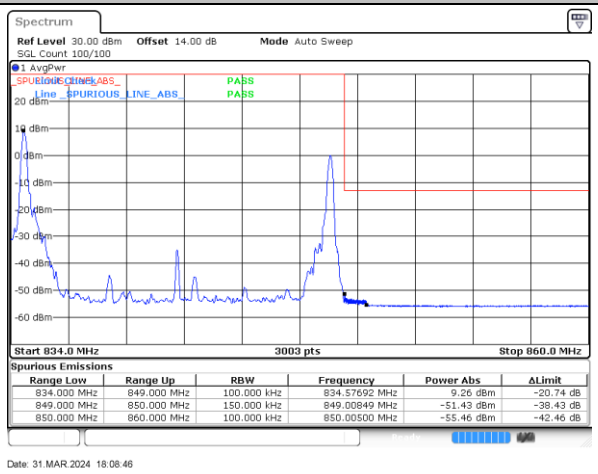


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.81219 MHz	-55.17 dBm	-42.17 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.99650 MHz	-31.03 dBm	-18.03 dB
824.000 MHz	839.000 MHz	100.000 kHz	824.59191 MHz	8.70 dBm	-21.30 dB

Date: 31.MAR.2024 17:58:34

Highest Band Edge / 1RB0 and 1RB24

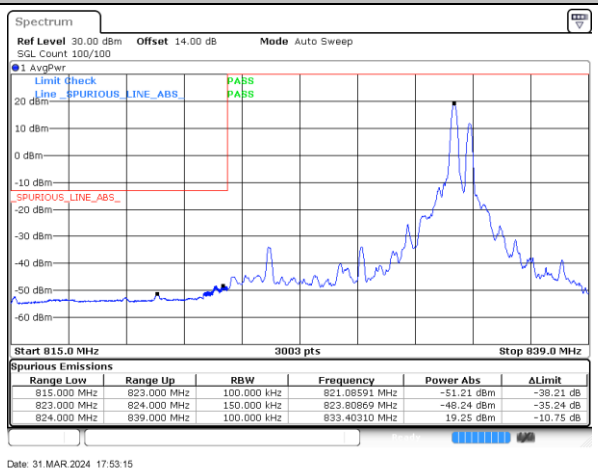


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	834.57692 MHz	9.26 dBm	-20.74 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.00849 MHz	-51.43 dBm	-38.43 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.00500 MHz	-55.46 dBm	-42.46 dB

Date: 31.MAR.2024 18:08:46

Lowest Band Edge / 1RB49 and 1RB0

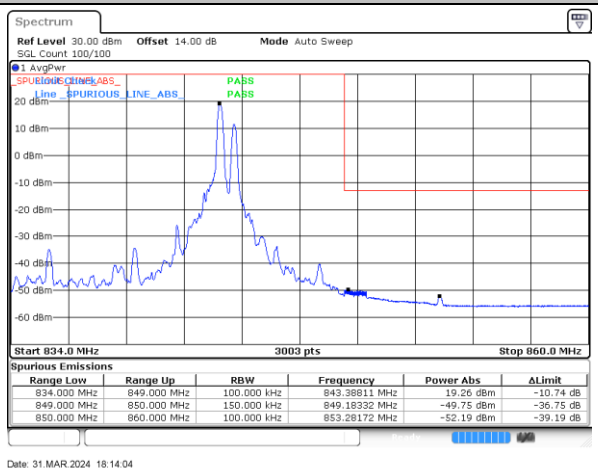


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	821.08591 MHz	-51.21 dBm	-38.21 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.80869 MHz	-48.24 dBm	-35.24 dB
824.000 MHz	839.000 MHz	100.000 kHz	833.40310 MHz	19.25 dBm	-10.75 dB

Date: 31.MAR.2024 17:53:15

Highest Band Edge / 1RB49 and 1RB0

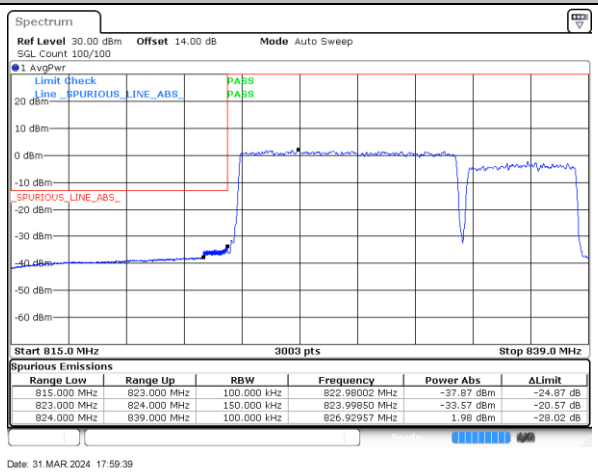


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	843.38811 MHz	19.26 dBm	-10.74 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.18332 MHz	-49.75 dBm	-36.75 dB
850.000 MHz	860.000 MHz	100.000 kHz	853.28172 MHz	-52.19 dBm	-39.19 dB

Date: 31.MAR.2024 18:14:04

Lowest Band Edge / Full RB

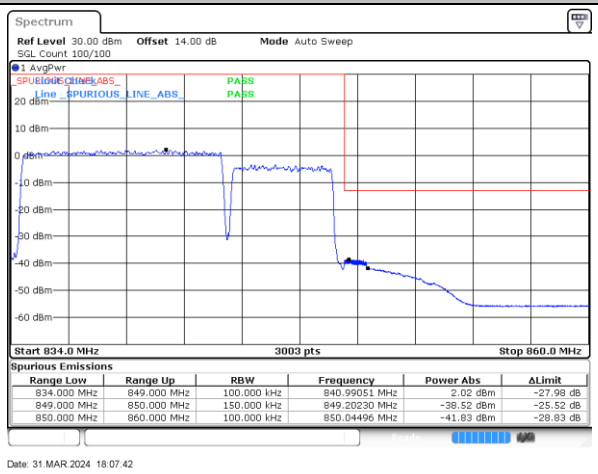


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98002 MHz	-37.87 dBm	-24.87 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.99850 MHz	-33.57 dBm	-20.57 dB
824.000 MHz	839.000 MHz	100.000 kHz	826.92957 MHz	1.98 dBm	-28.02 dB

Date: 31.MAR.2024 17:59:39

Highest Band Edge / Full RB



Spurious Emissions

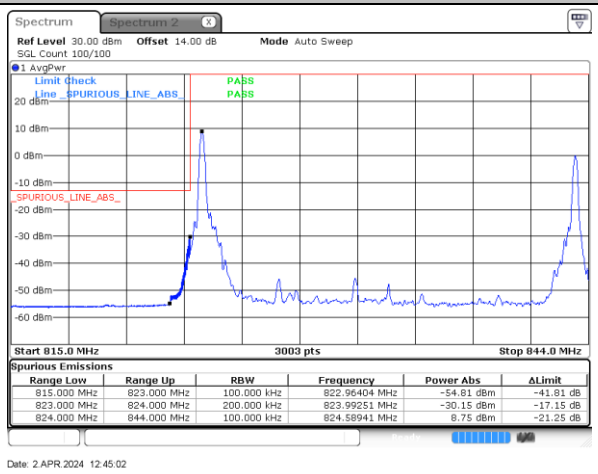
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	840.99051 MHz	2.02 dBm	-27.98 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.20230 MHz	-38.52 dBm	-25.52 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.04496 MHz	-41.83 dBm	-28.83 dB

Date: 31.MAR.2024 18:07:42

LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

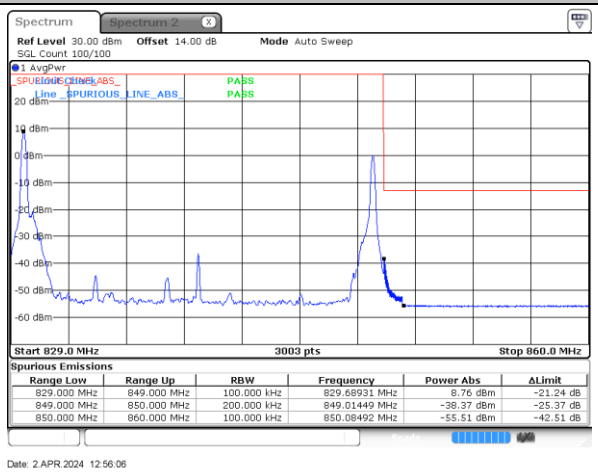


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.96404 MHz	-54.81 dBm	-41.81 dB
823.000 MHz	824.000 MHz	200.000 kHz	823.99251 MHz	-30.15 dBm	-17.15 dB
824.000 MHz	844.000 MHz	100.000 kHz	824.58941 MHz	8.75 dBm	-21.25 dB

Date: 2.APR.2024 12:45:02

Highest Band Edge / 1RB0 and 1RB49

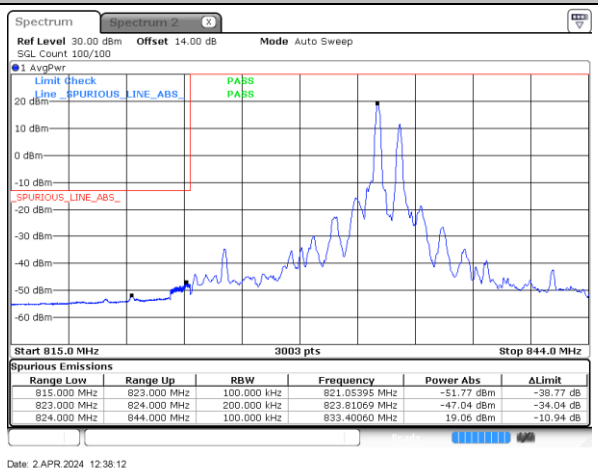


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
829.000 MHz	849.000 MHz	100.000 kHz	829.68931 MHz	8.76 dBm	-21.24 dB
849.000 MHz	850.000 MHz	200.000 kHz	849.01449 MHz	-38.37 dBm	-25.37 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.08492 MHz	-55.51 dBm	-42.51 dB

Date: 2.APR.2024 12:56:06

Lowest Band Edge / 1RB49 and 1RB0

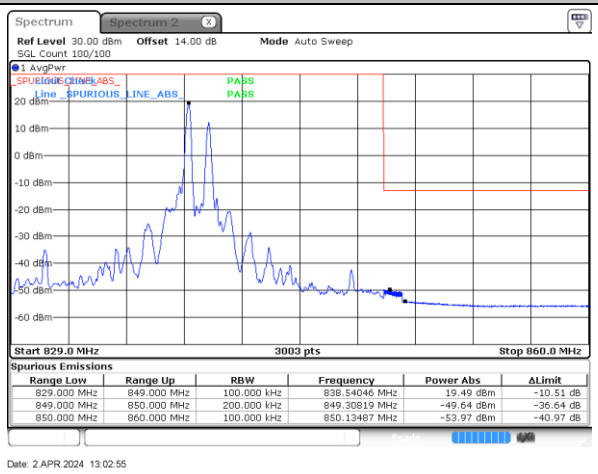


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	821.05395 MHz	-51.77 dBm	-38.77 dB
823.000 MHz	824.000 MHz	200.000 kHz	823.81069 MHz	-47.04 dBm	-34.04 dB
824.000 MHz	844.000 MHz	100.000 kHz	833.40060 MHz	19.06 dBm	-10.94 dB

Date: 2.APR.2024 12:38:12

Highest Band Edge / 1RB49 and 1RB0

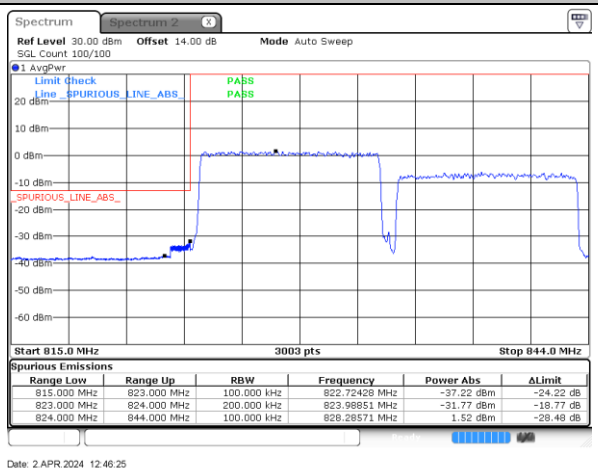


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
829.000 MHz	849.000 MHz	100.000 kHz	838.54046 MHz	19.49 dBm	-10.51 dB
849.000 MHz	850.000 MHz	200.000 kHz	849.30819 MHz	-49.64 dBm	-36.64 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.13487 MHz	-53.97 dBm	-40.97 dB

Date: 2.APR.2024 13:02:55

Lowest Band Edge / Full RB

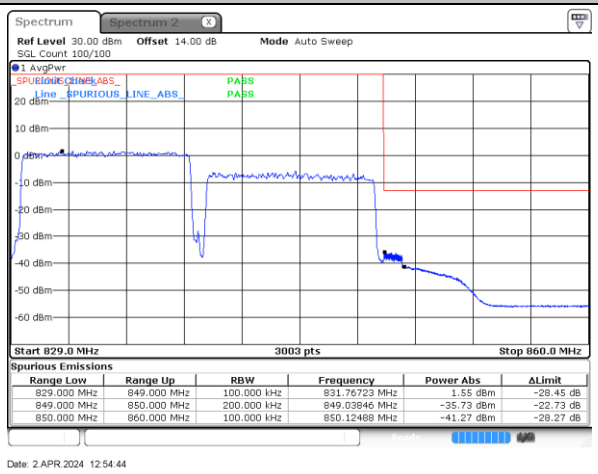


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.72428 MHz	-37.22 dBm	-24.22 dB
823.000 MHz	824.000 MHz	200.000 kHz	823.98851 MHz	-31.77 dBm	-18.77 dB
824.000 MHz	844.000 MHz	100.000 kHz	828.28571 MHz	1.52 dBm	-28.48 dB

Date: 2.APR.2024 12:46:25

Highest Band Edge / Full RB



Spurious Emissions

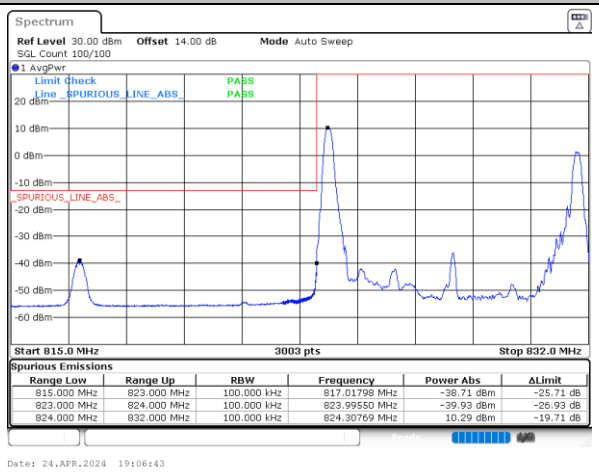
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
829.000 MHz	849.000 MHz	100.000 kHz	831.76723 MHz	1.55 dBm	-28.45 dB
849.000 MHz	850.000 MHz	200.000 kHz	849.03846 MHz	-35.73 dBm	-22.73 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.12488 MHz	-41.27 dBm	-28.27 dB

Date: 2.APR.2024 12:54:44

LTE Band 5B / 3MHz+5MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB24

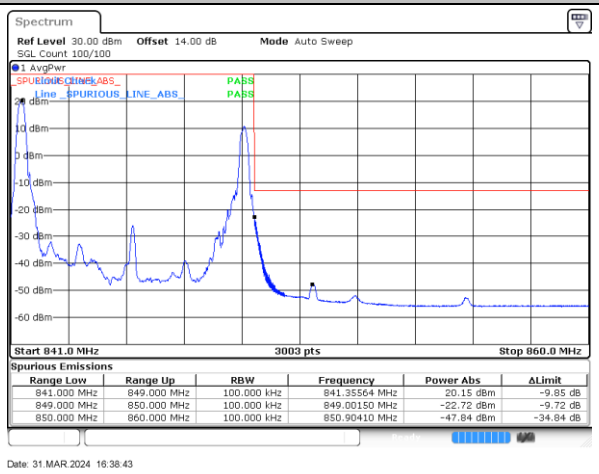


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	817.01798 MHz	-38.71 dBm	-25.71 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99550 MHz	-39.93 dBm	-26.93 dB
824.000 MHz	832.000 MHz	100.000 kHz	824.30769 MHz	10.29 dBm	-19.71 dB

Date: 24.APR.2024 19:06:43

Highest Band Edge / 1RB0 and 1RB24

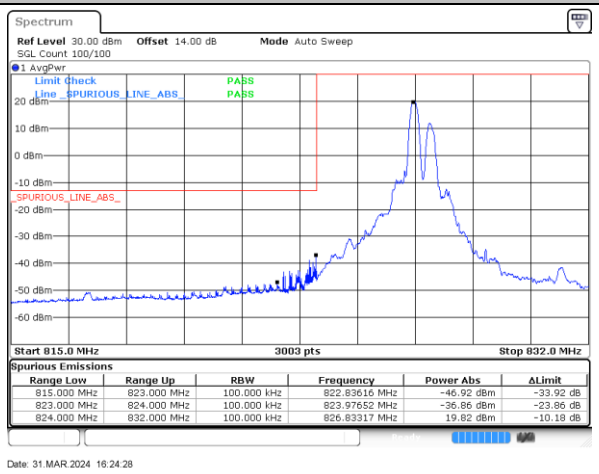


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	841.35564 MHz	20.15 dBm	-9.85 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00150 MHz	-22.72 dBm	-9.72 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.90410 MHz	-47.84 dBm	-34.84 dB

Date: 31.MAR.2024 16:38:43

Lowest Band Edge / 1RB14 and 1RB0

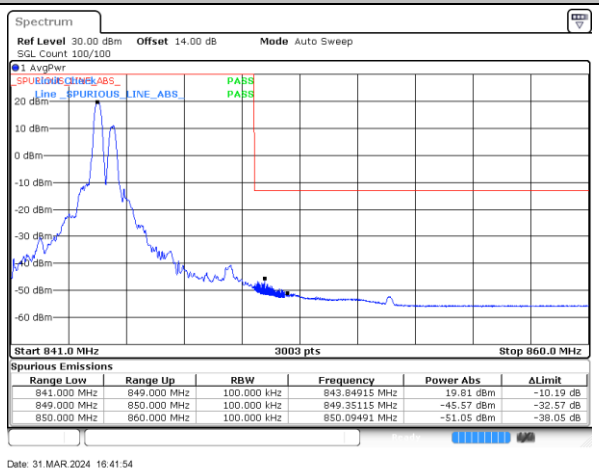


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.83616 MHz	-46.92 dBm	-33.92 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.97652 MHz	-36.86 dBm	-23.86 dB
824.000 MHz	832.000 MHz	100.000 kHz	826.83317 MHz	19.82 dBm	-10.18 dB

Date: 31.MAR.2024 16:24:28

Highest Band Edge / 1RB14 and 1RB0

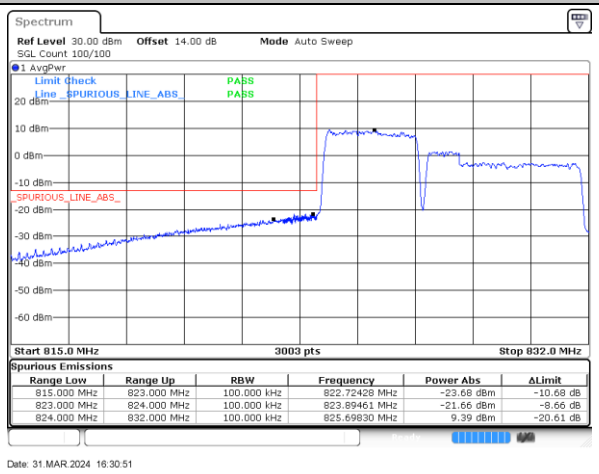


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	843.84915 MHz	19.81 dBm	-10.19 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.35115 MHz	-45.57 dBm	-32.57 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.09491 MHz	-51.05 dBm	-38.05 dB

Date: 31.MAR.2024 16:41:54

Lowest Band Edge / Full RB

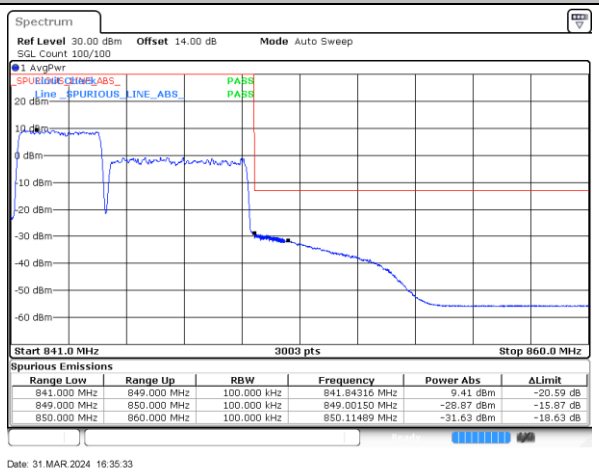


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.72428 MHz	-23.68 dBm	-10.68 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.89461 MHz	-21.66 dBm	-8.66 dB
824.000 MHz	832.000 MHz	100.000 kHz	825.69830 MHz	9.39 dBm	-20.61 dB

Date: 31.MAR.2024 16:30:51

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
841.000 MHz	849.000 MHz	100.000 kHz	841.84316 MHz	9.41 dBm	-20.59 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.00150 MHz	-28.87 dBm	-15.87 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.11489 MHz	-31.63 dBm	-18.63 dB

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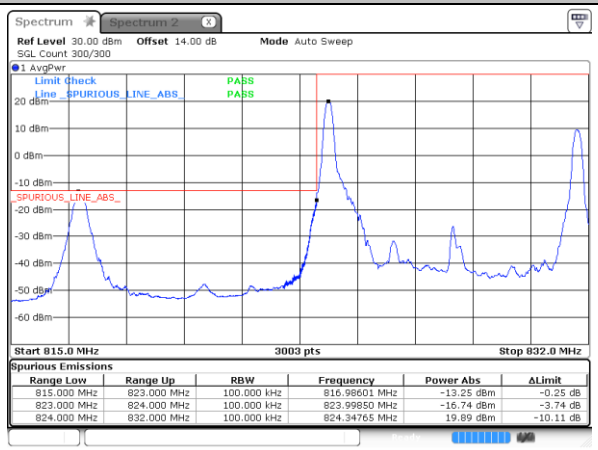
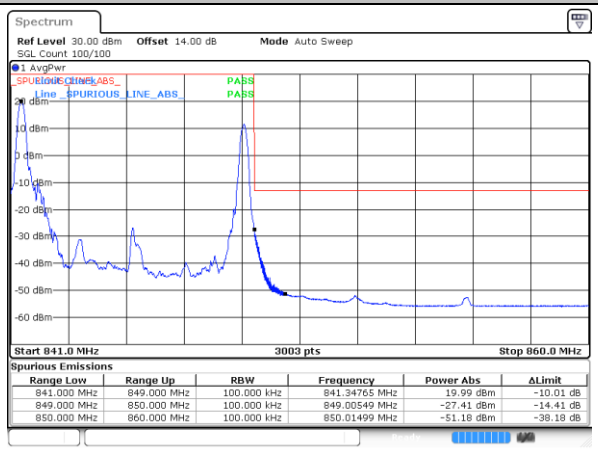
LTE Band 5B / 5MHz+3MHz

16QAM

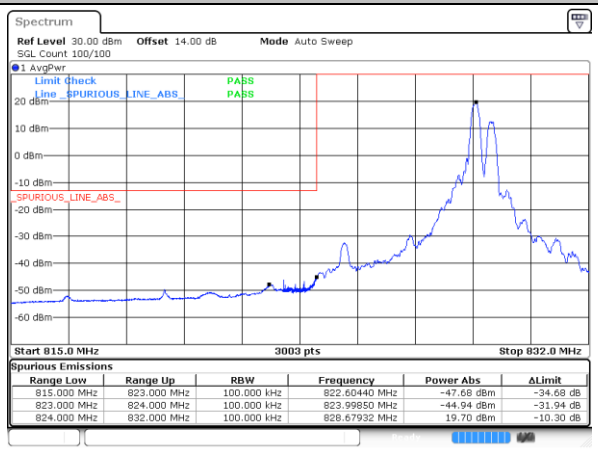
Lowest Band Edge / 1RB0 and 1RB14



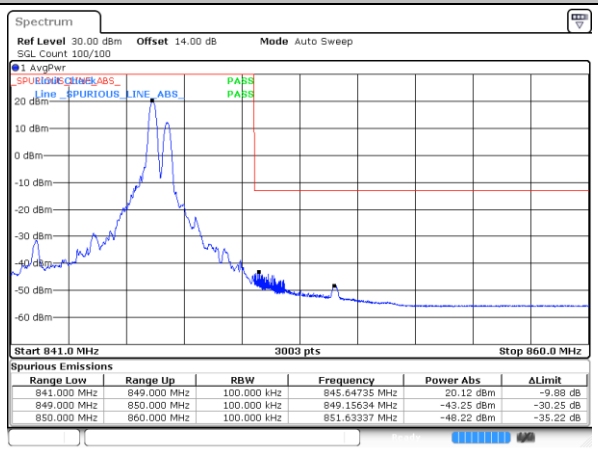
Highest Band Edge / 1RB0 and 1RB14



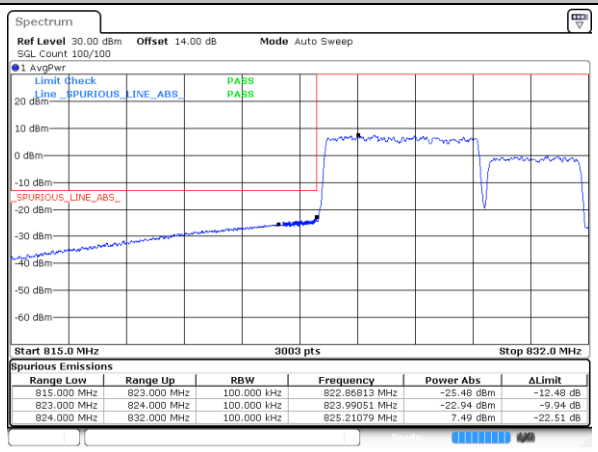
Lowest Band Edge / 1RB24 and 1RB0



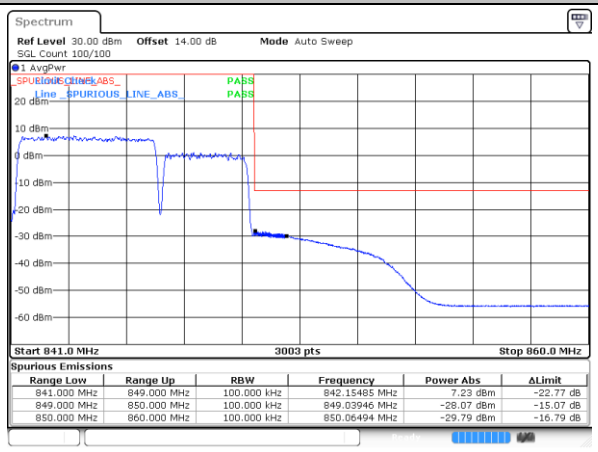
Highest Band Edge / 1RB24 and 1RB0



Lowest Band Edge / Full RB



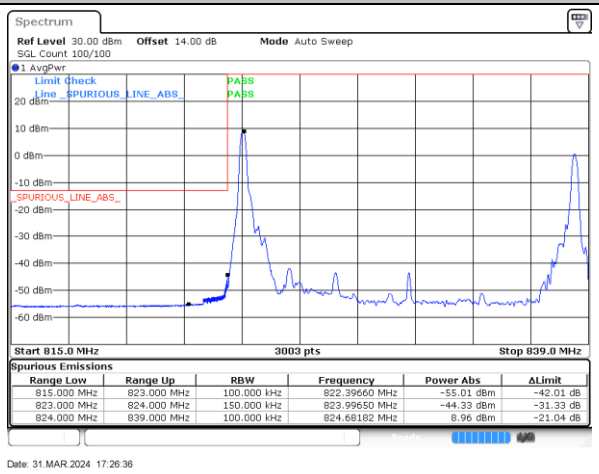
Highest Band Edge / Full RB



LTE Band 5B / 5MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.39660 MHz	-55.01 dBm	-42.01 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.99650 MHz	-44.33 dBm	-31.33 dB
824.000 MHz	839.000 MHz	100.000 kHz	824.68182 MHz	8.96 dBm	-21.04 dB

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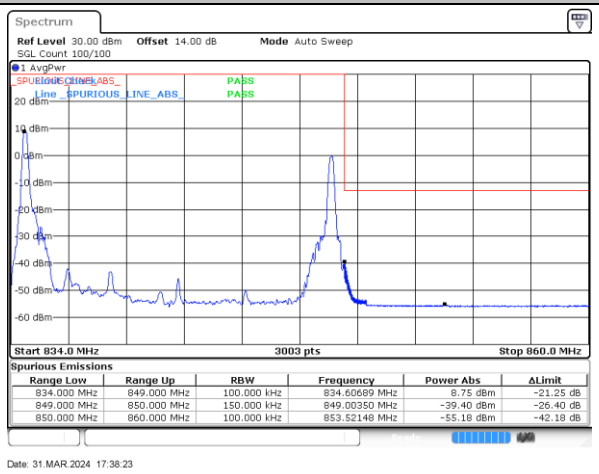
Highest Band Edge / 1RB0 and 1RB49



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	834.60689 MHz	8.75 dBm	-21.25 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.00350 MHz	-39.40 dBm	-26.40 dB
850.000 MHz	860.000 MHz	100.000 kHz	853.52148 MHz	-55.18 dBm	-42.18 dB

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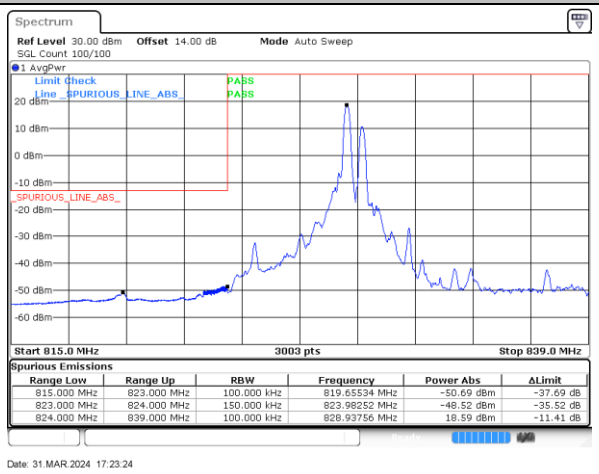
Lowest Band Edge / 1RB24 and 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	819.65534 MHz	-50.69 dBm	-37.69 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.98252 MHz	-48.52 dBm	-35.52 dB
824.000 MHz	839.000 MHz	100.000 kHz	828.93756 MHz	18.59 dBm	-11.41 dB

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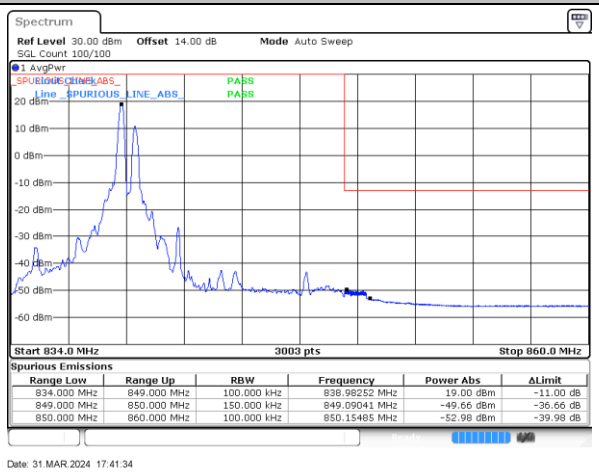
Highest Band Edge / 1RB24 and 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	838.98252 MHz	19.00 dBm	-11.00 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.09041 MHz	-49.66 dBm	-36.66 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.15485 MHz	-52.98 dBm	-39.98 dB

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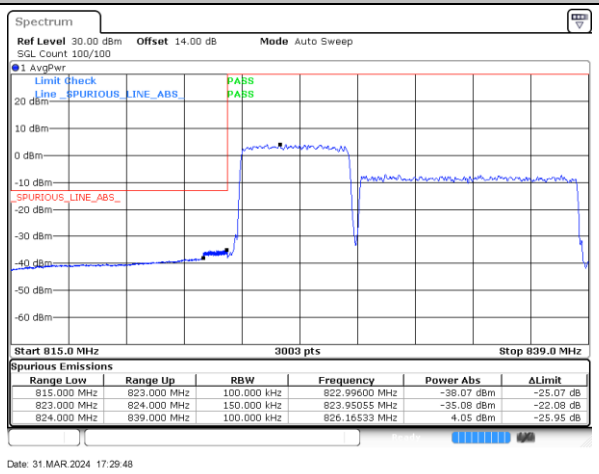
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-38.07 dBm	-25.07 dB
823.000 MHz	824.000 MHz	150.000 kHz	823.95055 MHz	-35.08 dBm	-22.08 dB
824.000 MHz	839.000 MHz	100.000 kHz	826.16533 MHz	4.05 dBm	-25.95 dB

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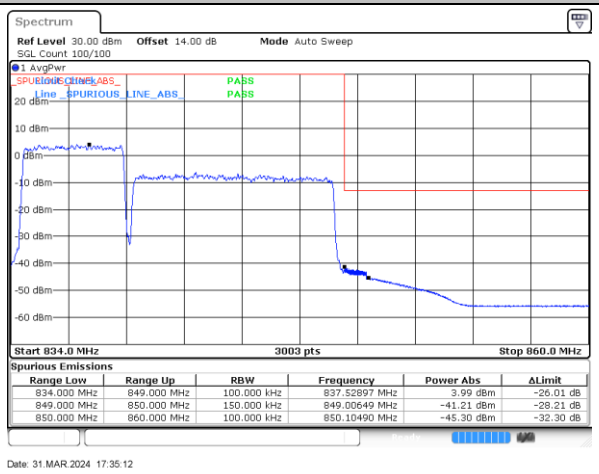
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
834.000 MHz	849.000 MHz	100.000 kHz	837.52897 MHz	3.99 dBm	-26.01 dB
849.000 MHz	850.000 MHz	150.000 kHz	849.00649 MHz	-41.21 dBm	-28.21 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.10490 MHz	-45.30 dBm	-32.30 dB

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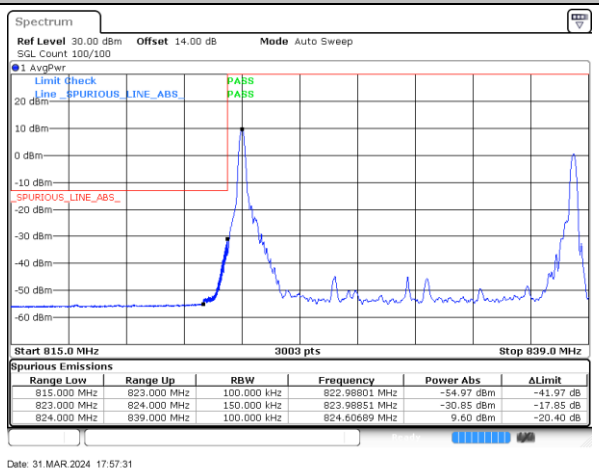
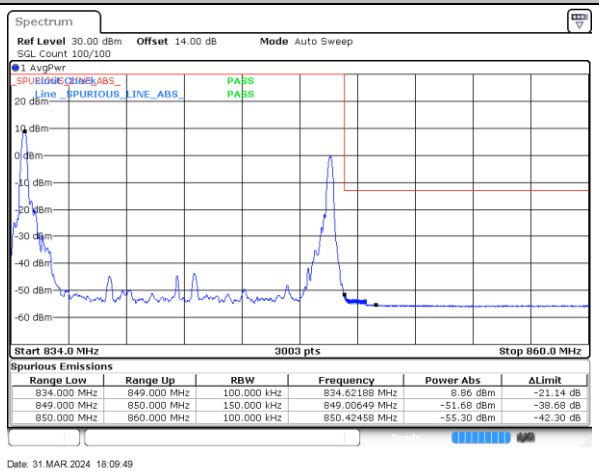
LTE Band 5B / 10MHz+5MHz

16QAM

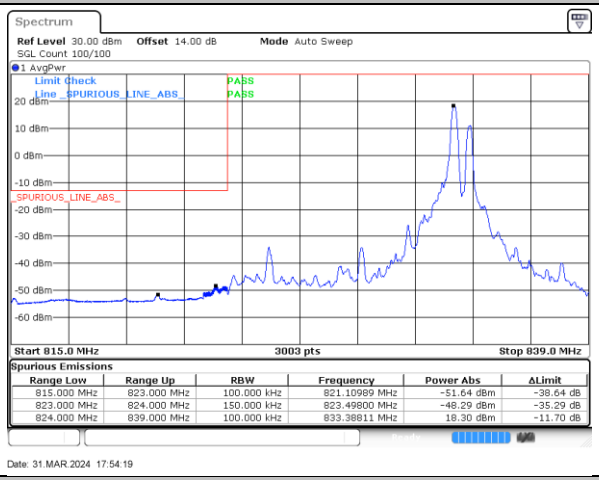
Lowest Band Edge / 1RB0 and 1RB24



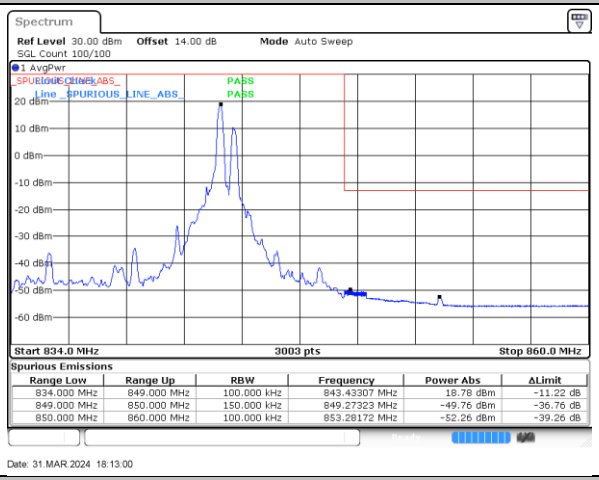
Highest Band Edge / 1RB0 and 1RB24



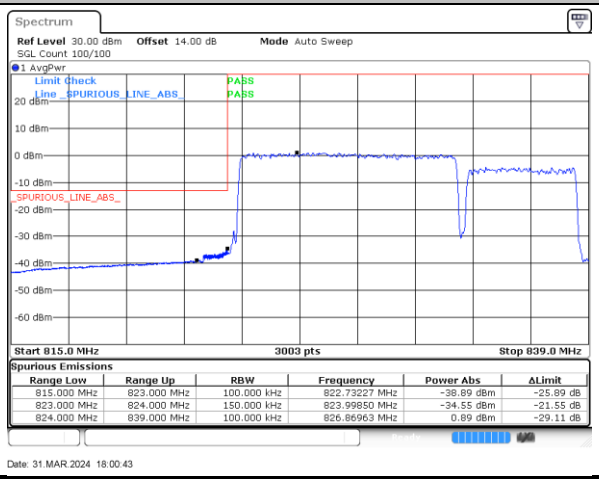
Lowest Band Edge / 1RB49 and 1RB0



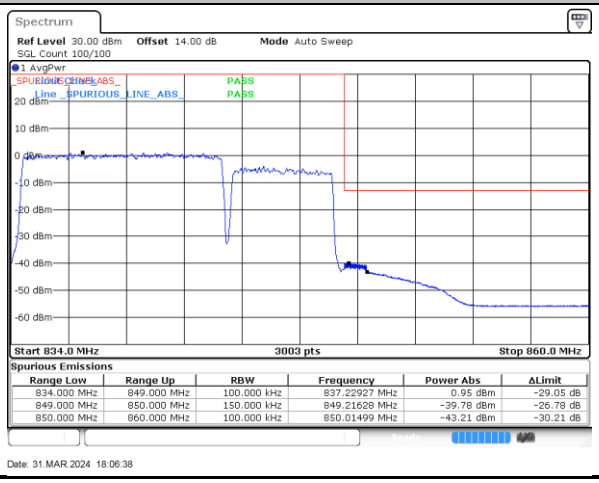
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



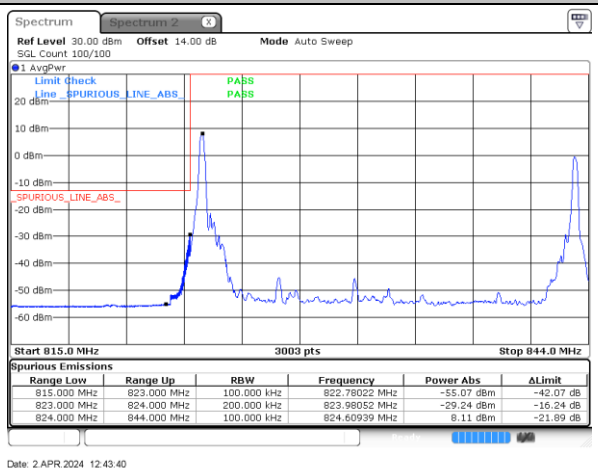
Highest Band Edge / Full RB



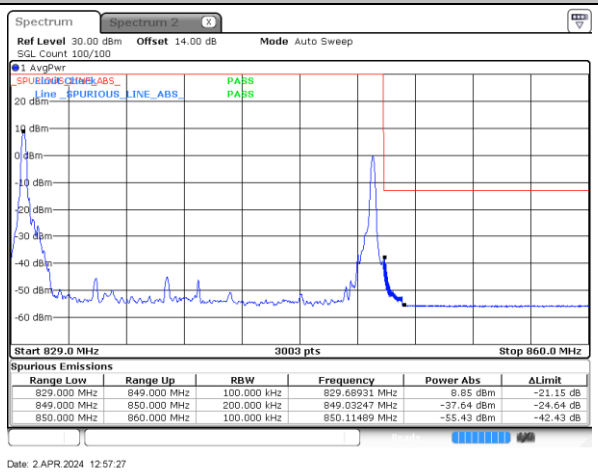
LTE Band 5B / 10MHz+10MHz

16QAM

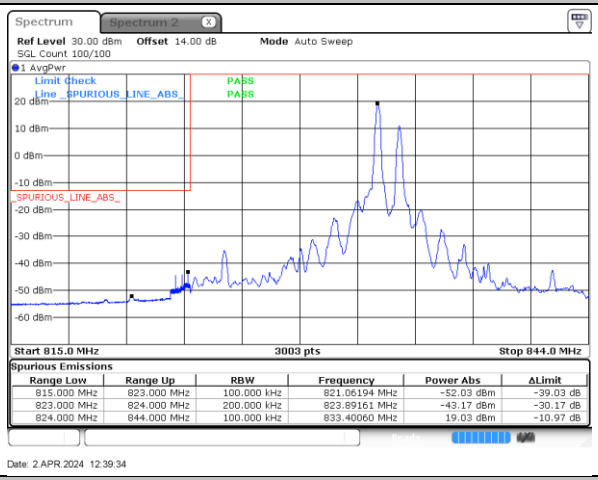
Lowest Band Edge / 1RB0 and 1RB49



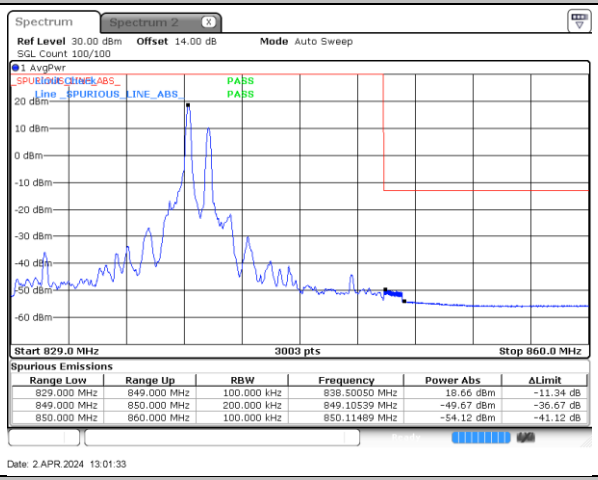
Highest Band Edge / 1RB0 and 1RB49



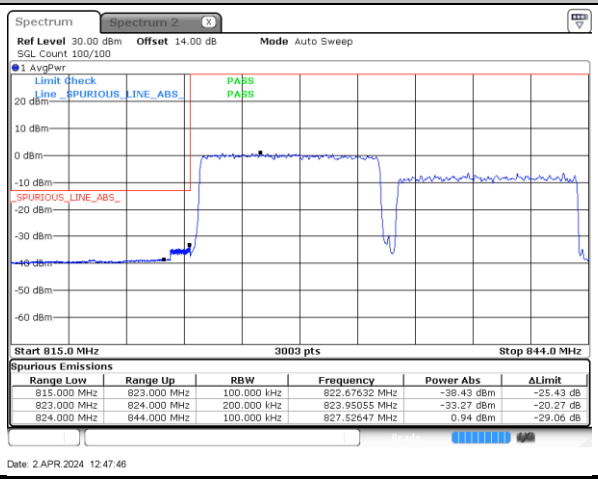
Lowest Band Edge / 1RB49 and 1RB0



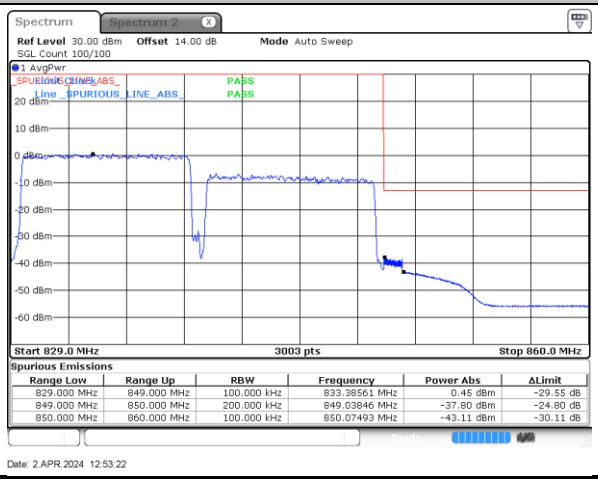
Highest Band Edge / 1RB49 and 1RB0



Lowest Band Edge / Full RB



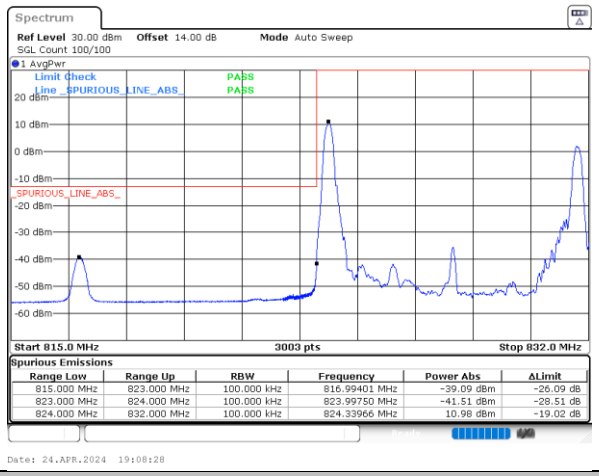
Highest Band Edge / Full RB



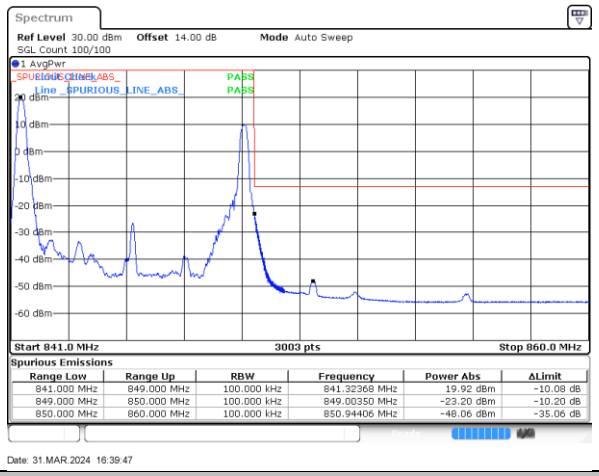
LTE Band 5B / 3MHz+5MHz

64QAM

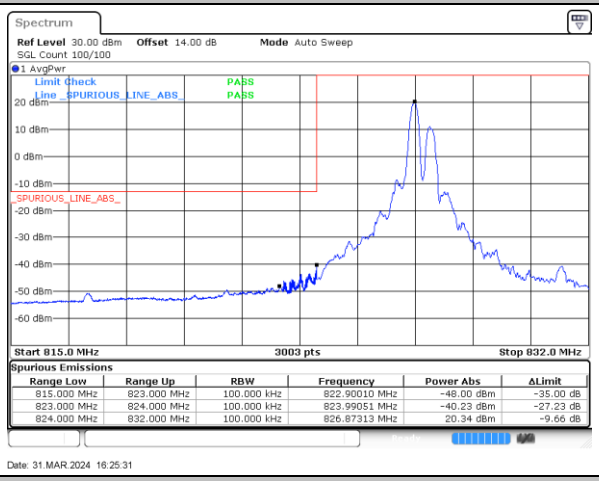
Lowest Band Edge / 1RB0 and 1RB24



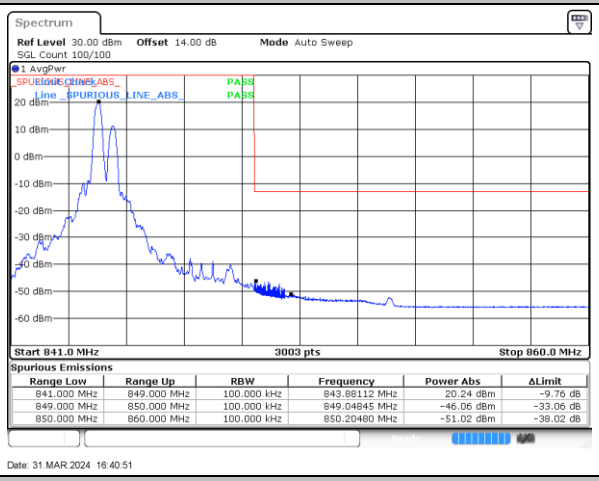
Highest Band Edge / 1RB0 and 1RB24



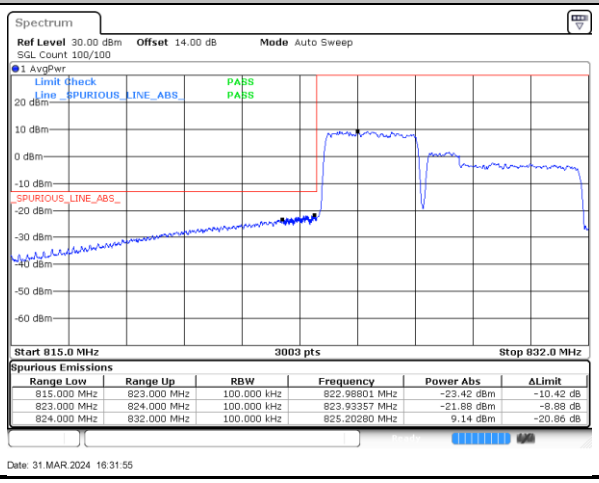
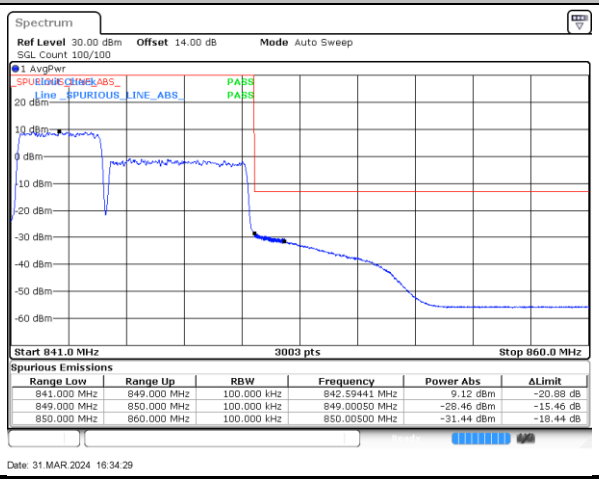
Lowest Band Edge / 1RB14 and 1RB0



Highest Band Edge / 1RB14 and 1RB0



Lowest Band Edge / Full RB



Highest Band Edge / Full RB