FCC RADIO TEST REPORT

FCC ID	:	**GKRGWT9R**
Equipment	:	**Wireless Device**
Model Name	:	**GWT9R**
Applicant	:	**Compal Electronics, Inc.** **No. 581-1 & 581, Ruiguang Rd., Nei-hu District, Taipei City 114, TAIWAN (R.O.C.)**
Standard	:	**FCC 47 CFR Part 2, 22(H), 24(E), 27**

The product was received on May 04, 2021 and testing was started from May 23, 2021 and completed on Sep. 22, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FG142875B	01	Initial issue of report	Nov. 01, 2021
FG142875B	02	1. Revise support unit used in test configuration and system in section 2.4 2. Revise test mode in section 2.1	Dec. 15, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 14.13 dB at 1568.000 MHz

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Avis Chuang

Report Producer: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Device
Model Name	GWT9R
FCC ID	GKRGWT9R
EUT supports Radios application	WCDMA/HSPA/LTE/NFC(Passive) WLAN 11b/g/n HT20 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
14151FQEJXN01R	Conducted Measurement ERP/EIRP
15041FQEJSN00C 14261FQEJSN05P	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 824.7 MHz ~ 848.3 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 869.7 MHz ~ 893.3 MHz LTE Band 66: 2110.7 MHz ~ 2199.3 MHz LTE Band 71: 619.5 MHz ~ 649.5 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 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 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 LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**<Top Antenna>** LTE Band 2 : 23.45 dBm LTE Band 4 : 23.51 dBm LTE Band 5 : 23.27 dBm LTE Band 12 : 23.72 dBm LTE Band 13 : 23.65 dBm LTE Band 17 : 23.62 dBm LTE Band 25 : 23.36 dBm LTE Band 26 : 23.20 dBm LTE Band 66 : 23.56 dBm LTE Band 71 : 23.41 dBm **<Bottom Antenna>** LTE Band 5 : 23.97 dBm LTE Band 12 : 24.25 dBm LTE Band 13 : 24.22 dBm LTE Band 17 : 24.19 dBm LTE Band 26 : 23.98 dBm LTE Band 71 : 23.99 dBm
Antenna Type	**<Top Antenna>:** IFA Antenna type **<Bottom Antenna>:** IFA Antenna type
Type of Modulation	QPSK / 16QAM

<Top Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B2	Ant. 0	-8.6
LTE	B4	Ant. 0	-6.3
LTE	B5	Ant. 0	-14.2
LTE	B12	Ant. 0	-16.8
LTE	B13	Ant. 0	-15.6
LTE	B17	Ant. 0	-16.8
LTE	B25	Ant. 0	-8.6
LTE	B26	Ant. 0	-14.2
LTE	B66	Ant. 0	-6.5
LTE	B71	Ant. 0	-17.7

<Bottom Antenna >

Radio Tech	Band Number	Antenna name	Gain
LTE	B5	Ant. 1	-14.2
LTE	B12	Ant. 1	-14.7
LTE	B13	Ant. 1	-13.1
LTE	B17	Ant. 1	-14.7
LTE	B26	Ant. 1	-14.0
LTE	B71	Ant. 1	-17.7

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH03-HY
Test Engineer	Benjamin Lin
Temperature	23.5~25.5℃
Relative Humidity	49.7~52.8%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY (TAF Code: 3786)
Test Engineer	Harvey Guo, Fu Chen and Troye Hsieh
Temperature	18.3~26.2℃
Relative Humidity	53.7~69.3%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find <Top Antenna>: X Plane with Strap 1 for LTE Band 13, 26, 71; Y Plane with Strap 1 for LTE Band 25, 66; Z Plane with Strap 1 for LTE Band 12; X Plane with Strap 3 for LTE Band 13; Y Plane with Strap 3 for LTE Band 66;<Bottom Antenna>: X Plane with Strap 1 for LTE Band 12, 26; Y Plane with Strap 1 for LTE Band 13, 71; Y Plane with Strap 3 for LTE Band 13 as worst plane.

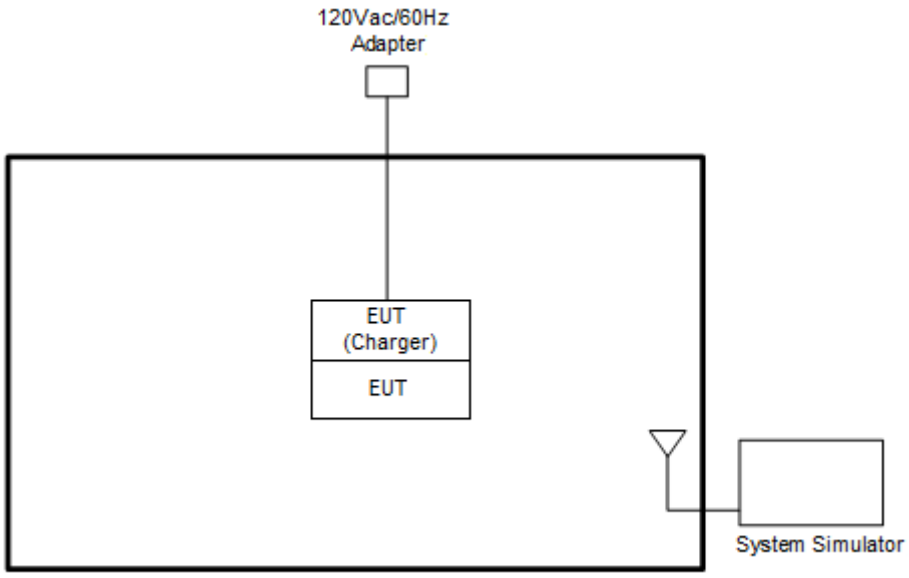
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	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
	26	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
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12				v	-	-	v	v			v		v	
	13	-	-		v	-	-	v	v			v		v	
	17	Covered by Band 12													
	25						v	v	v			v		v	
	26					v	-	v	v			v		v	
	66						v	v	v			v		v	
	71						v	v	v			v		v	

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12	v	v	v	v	-	-	v	v			v		v	
	13	-	-	v	v	-	-	v	v			v		v	
	17	Covered by Band 12													
	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	
	71	-	-	v	v	v	v	v	v			v		v	
Conducted Band Edge	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12	v	v	v	v	-	-	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v		v	v		v
	17	Covered by Band 12													
	25	v	v	v	v	v	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12	v	v	v	v	-	-	v		v			v	v	v
	13	-	-	v	v	-	-	v		v			v	v	v
	17	Covered by Band 12													
	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
	71	-	-	v	v	v	v	v		v			v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Frequency Stability	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12				v	-	-	v				v		v	
	13	-	-		v	-	-	v				v		v	
	17	Covered by Band 12													
	25				v			v				v		v	
	26				v		-	v				v		v	
	66				v			v				v		v	
	71	-	-		v			v				v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	Max. Power					
	4	v	v	v	v	v	v	v	v	Max. Power					
	5	v	v	v	v	-	-	v	v	Max. Power					
	12	v	v	v	v	-	-	v	v	Max. Power					
	13	-	-	v	v	-	-	v	v	Max. Power					
	17	-	-	v	v	-	-	v	v	Max. Power					
	25	v	v	v	v	v	v	v	v	Max. Power					
	26	v	v	v	v	v	-	v	v	Max. Power					
	66	v	v	v	v	v	v	v	v	Max. Power					
	71	-	-	v	v	v	v	v	v	Max. Power					

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	Covered by Band 25													
	4	Covered by Band 66													
	5	Covered by Band 26													
	12	Worst Case											v	v	v
	13	Worst Case											v	v	v
	17	Covered by Band 12													
	25	Worst Case											v	v	v
	26	Worst Case											v	v	v
	66	Worst Case											v	v	v
	71	Worst Case											v	v	v
Remark	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. Wider operating range bandwidth covers narrower one when the power is higher or the same. 5. For Conducted Test Cases, the tests were performed LTE Band 2/4/25/66 with Top Antenna as worst case; LTE Band 5/12/13/17/26/71 with Bottom Antenna as worst case. 6. Radiated Spurious Emission full test on EUT with Strap 1 and spot check the worst case with Strap 3 on each antenna.														

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	N/A	N/A	N/A	N/A	N/A
4.	Wireless Device	N/A	G943M	GKRG943M	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 4.2 dB and 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (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 12 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

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

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

LTE Band 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	829.0	836.5	844.0
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 71 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5

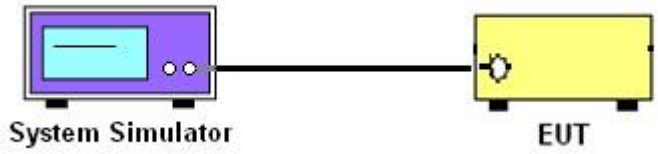
3 Conducted Test Items

3.1 Measuring Instruments

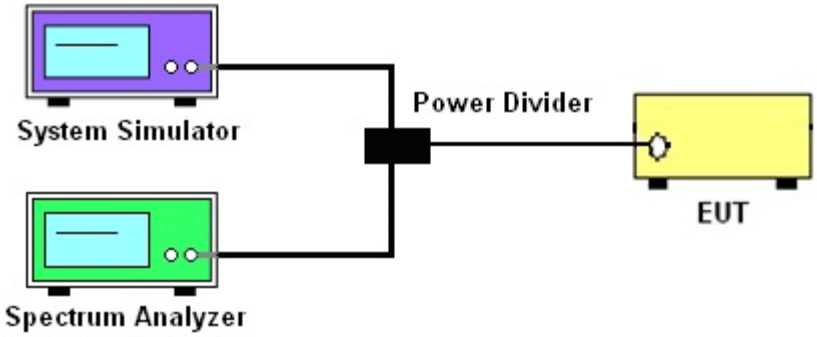
See list of measuring instruments of this test report.

3.1.1 Test Setup

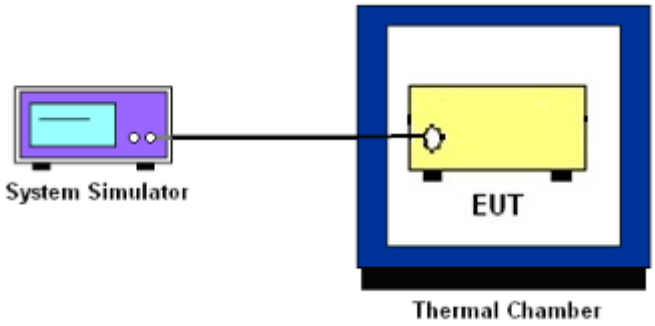
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 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 ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71

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

3.2.2 Test Procedures

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

3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(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 + 10log10(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 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is 43 + 10log10(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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.6 Conducted Spurious Emission

3.6.1 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 10^{th} harmonic.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

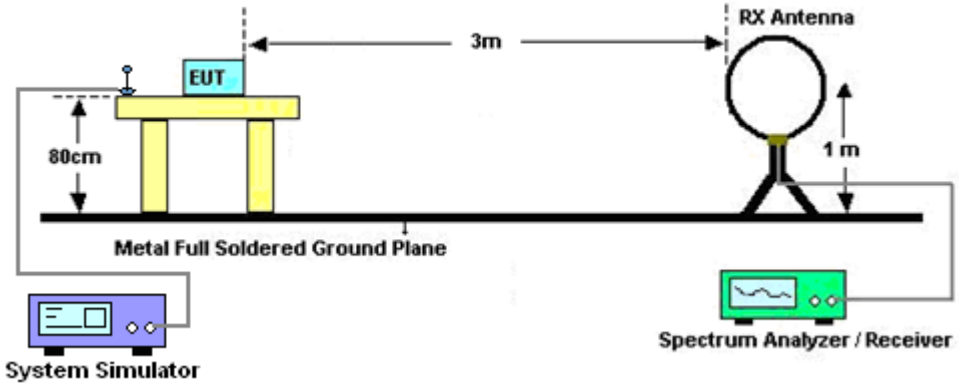
4 Radiated Test Items

4.1 Measuring Instruments

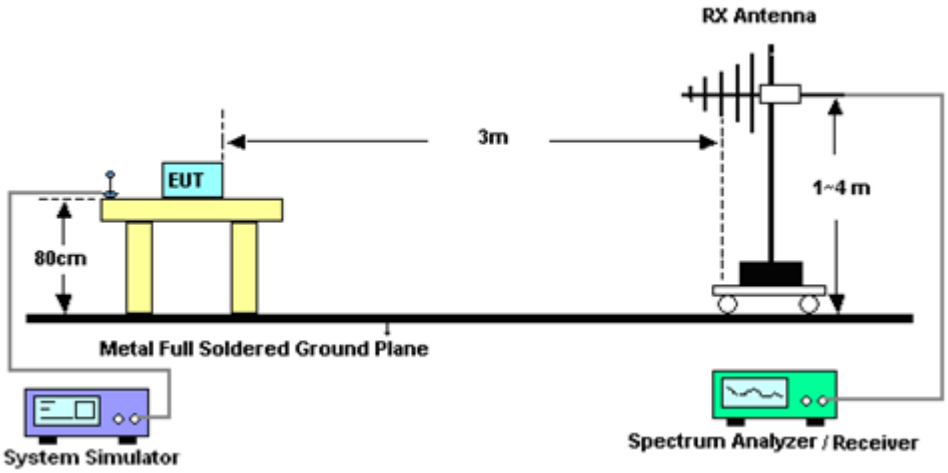
See list of measuring instruments of this test report.

4.1.1 Test Setup

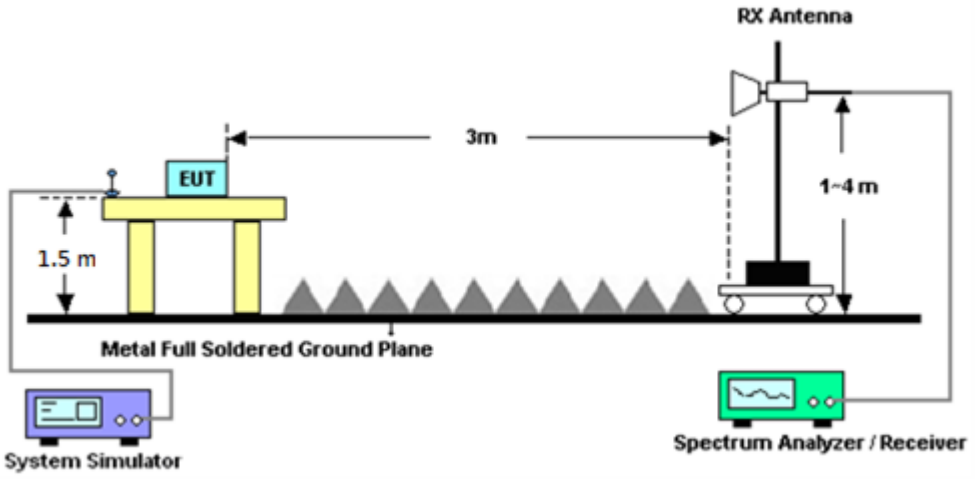
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For LTE Band 13

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

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Nov. 03, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Jun. 02, 2021~ Sep. 22, 2021	May 17, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Jun. 02, 2021~ Sep. 22, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N1 D01N-06	54682 & AT-N0603	30MHz~1GHz	Sep. 25, 2020	Jun. 02, 2021~ Sep. 22, 2021	Sep. 24, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 19, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 18, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Nov. 19, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 18, 2021	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jun. 02, 2021~ Sep. 22, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 12, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Jun. 02, 2021~ Sep. 22, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	0600789	18GHz~40GHz	Jul. 31, 2020	Jun. 02, 2021~ Jun. 23, 2021	Jul. 30, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Jun. 24, 2021~ Sep. 22, 2021	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2020	Jun. 02, 2021~ Sep. 22, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 14, 2020	Jun. 02, 2021~ Sep. 22, 2021	Dec. 13, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 02, 2021~ Sep. 22, 2021	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 02, 2021~ Sep. 22, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 02, 2021~ Sep. 22, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jun. 02, 2021~ Sep. 22, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 11, 2021	Jun. 02, 2021~ Sep. 22, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Jun. 02, 2021~ Sep. 22, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 11, 2021	Jun. 02, 2021~ Sep. 22, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Jun. 02, 2021~ Sep. 22, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900-1000-15000-60SS	SN12	1GHz High Pass Filter	Nov. 05, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 04, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 14, 2020	Jun. 02, 2021~ Sep. 12, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 13, 2021	Sep. 13, 2021~ Sep. 22, 2021	Sep. 12, 2022	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Jun. 02, 2021~ Sep. 22, 2021	Nov. 17, 2021	Radiation (03CH11-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Oct. 06, 2020	May 23, 2021~ Aug. 01, 2021	Oct. 05, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	May 23, 2021~ Aug. 01, 2021	Nov. 26, 2021	Conducted (TH03-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Aug. 05, 2020	May 23, 2021~ Aug. 01, 2021	Aug. 04, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 05, 2020	May 23, 2021~ Aug. 01, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	May 23, 2021~ Aug. 01, 2021	Jan. 08, 2022	Conducted (TH03-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.09 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.56 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.00 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

<Top Antenna>

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.42	23.35	23.45	14.85	0.0305
20	1	49		23.40	23.34	23.38		
20	1	99		23.37	23.30	23.44		
20	50	0		22.50	22.44	22.54		
20	50	24		22.51	22.43	22.52		
20	50	50		22.53	22.45	22.55		
20	100	0		22.49	22.42	22.51		
20	1	0	16-QAM	22.43	22.31	22.46	13.86	0.0243
20	1	49		22.41	22.26	22.41		
20	1	99		22.36	22.31	22.42		
20	50	0		21.50	21.47	21.53		
20	50	24		21.49	21.45	21.53		
20	50	50		21.49	21.43	21.54		
20	100	0		21.48	21.44	21.52		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.31	23.32	23.38	14.79	0.0301
15	1	37		23.31	23.32	23.35		
15	1	74		23.33	23.29	23.39		
15	36	0		22.43	22.42	22.45		
15	36	20		22.43	22.43	22.45		
15	36	39		22.41	22.42	22.46		
15	75	0		22.43	22.42	22.46		
15	1	0	16-QAM	22.34	22.23	22.35	13.75	0.0237
15	1	37		22.34	22.24	22.33		
15	1	74		22.32	22.27	22.34		
15	36	0		21.36	21.41	21.45		
15	36	20		21.37	21.39	21.42		
15	36	39		21.35	21.40	21.45		
15	75	0		21.41	21.44	21.48		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.17	23.18	23.22	14.64	0.0291
10	1	25		23.17	23.17	23.23		
10	1	49		23.16	23.16	23.24		
10	25	0		22.24	22.22	22.28		
10	25	12		22.24	22.24	22.30		
10	25	25		22.23	22.22	22.30		
10	50	0		22.25	22.23	22.30		
10	1	0	16-QAM	22.09	22.22	22.26	13.66	0.0232
10	1	25		22.13	22.20	22.22		
10	1	49		21.99	22.13	22.14		
10	25	0		21.19	21.20	21.24		
10	25	12		21.19	21.21	21.28		
10	25	25		21.18	21.17	21.28		
10	50	0		21.25	21.22	21.32		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.34	23.36	23.35	14.81	0.0303
5	1	12		23.31	23.33	23.41		
5	1	24		23.32	23.36	23.40		
5	12	0		22.41	22.41	22.44		
5	12	7		22.42	22.41	22.45		
5	12	13		22.41	22.42	22.45		
5	25	0		22.42	22.42	22.45		
5	1	0	16-QAM	22.29	22.25	22.16	13.71	0.0235
5	1	12		22.30	22.28	22.19		
5	1	24		22.29	22.28	22.31		
5	12	0		21.38	21.41	21.44		
5	12	7		21.40	21.41	21.47		
5	12	13		21.37	21.41	21.46		
5	25	0		21.39	21.42	21.47		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.29	23.21	23.26	14.69	0.0294
3	1	8		23.28	23.22	23.24		
3	1	14		23.29	23.22	23.26		
3	8	0		22.31	22.24	22.29		
3	8	4		22.32	22.25	22.29		
3	8	7		22.31	22.25	22.30		
3	15	0		22.32	22.26	22.31		
3	1	0	16-QAM	22.27	22.12	22.26	13.67	0.0233
3	1	8		22.20	22.16	22.20		
3	1	14		22.21	22.21	22.23		
3	8	0		21.26	21.24	21.27		
3	8	4		21.26	21.27	21.29		
3	8	7		21.26	21.26	21.32		
3	15	0		21.26	21.26	21.30		
Limit	EIRP < 2W			Result			Pass	

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.19	23.10	23.21	14.70	0.0295
1.4	1	3		23.16	23.13	23.22		
1.4	1	5		23.18	23.10	23.21		
1.4	3	0		23.26	23.20	23.28		
1.4	3	1		23.25	23.21	23.29		
1.4	3	3		23.24	23.20	23.30		
1.4	6	0		22.24	22.19	22.29		
1.4	1	0	16-QAM	22.13	22.14	22.21	13.61	0.0230
1.4	1	3		22.20	22.17	22.18		
1.4	1	5		22.17	22.14	22.08		
1.4	3	0		22.04	21.98	22.09		
1.4	3	1		22.05	21.94	22.13		
1.4	3	3		22.02	21.97	22.14		
1.4	6	0		21.17	21.20	21.22		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.30	23.35	23.36	14.76	0.0299
20	1	49		23.32	23.35	23.34		
20	1	99		23.31	23.30	22.86		
20	50	0		22.45	22.47	22.48		
20	50	24		22.44	22.47	22.49		
20	50	50		22.46	22.48	22.52		
20	100	0		22.45	22.45	22.51		
20	1	0	16-QAM	22.38	22.40	22.31	13.81	0.0240
20	1	49		22.32	22.37	22.36		
20	1	99		22.41	22.34	22.34		
20	50	0		21.43	21.47	21.49		
20	50	24		21.41	21.46	21.51		
20	50	50		21.43	21.45	21.53		
20	100	0		21.44	21.45	21.50		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.24	23.33	23.33	14.73	0.0297
15	1	37		23.21	23.32	23.33		
15	1	74		23.20	23.29	22.79		
15	36	0		22.31	22.46	22.43		
15	36	20		22.33	22.44	22.46		
15	36	39		22.32	22.42	22.48		
15	75	0		22.32	22.44	22.43		
15	1	0	16-QAM	22.17	22.27	22.37	13.77	0.0238
15	1	37		22.17	22.33	22.30		
15	1	74		22.25	22.32	22.23		
15	36	0		21.28	21.41	21.40		
15	36	20		21.27	21.42	21.40		
15	36	39		21.29	21.42	21.41		
15	75	0		21.32	21.44	21.44		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.13	23.17	23.17	14.59	0.0288
10	1	25		23.11	23.19	23.19		
10	1	49		23.09	23.18	22.72		
10	25	0		22.20	22.27	22.24		
10	25	12		22.20	22.27	22.25		
10	25	25		22.19	22.25	22.28		
10	50	0		22.20	22.27	22.28		
10	1	0	16-QAM	22.16	22.22	22.14	13.62	0.0230
10	1	25		22.05	22.17	22.09		
10	1	49		22.01	22.11	22.02		
10	25	0		21.15	21.24	21.22		
10	25	12		21.14	21.24	21.23		
10	25	25		21.14	21.23	21.23		
10	50	0		21.19	21.28	21.26		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.20	23.24	23.31	14.71	0.0296
5	1	12		23.19	23.24	23.05		
5	1	24		23.17	23.25	22.80		
5	12	0		22.27	22.36	22.40		
5	12	7		22.28	22.37	22.39		
5	12	13		22.26	22.34	22.21		
5	25	0		22.28	22.37	22.41		
5	1	0	16-QAM	22.14	22.28	22.18	13.68	0.0233
5	1	12		22.15	22.26	22.22		
5	1	24		22.13	22.22	21.82		
5	12	0		21.22	21.31	21.34		
5	12	7		21.22	21.33	21.34		
5	12	13		21.22	21.33	21.34		
5	25	0		21.21	21.33	21.36		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.19	23.28	23.25	14.68	0.0294
3	1	8		23.18	23.25	23.23		
3	1	14		23.18	23.28	23.08		
3	8	0		22.21	22.29	22.27		
3	8	4		22.23	22.29	22.26		
3	8	7		22.21	22.29	22.25		
3	15	0		22.21	22.29	22.28		
3	1	0	16-QAM	22.10	22.29	22.21	13.69	0.0234
3	1	8		22.08	22.24	22.17		
3	1	14		22.14	22.20	22.09		
3	8	0		21.15	21.28	21.23		
3	8	4		21.19	21.30	21.24		
3	8	7		21.16	21.27	21.24		
3	15	0		21.19	21.31	21.24		
Limit	EIRP < 2W			Result			Pass	

LTE Band 25 Maximum Average Power [dBm] (GT - LC = -8.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.02	23.11	22.88	14.66	0.0292
1.4	1	3		23.06	23.12	22.76		
1.4	1	5		23.04	23.14	22.71		
1.4	3	0		23.11	23.23	22.76		
1.4	3	1		23.14	23.26	22.70		
1.4	3	3		23.12	23.25	22.81		
1.4	6	0		22.16	22.23	22.10		
1.4	1	0	16-QAM	22.01	22.10	22.10	13.51	0.0224
1.4	1	3		22.06	22.09	22.11		
1.4	1	5		22.07	22.10	22.00		
1.4	3	0		21.97	22.09	22.06		
1.4	3	1		22.02	22.11	22.05		
1.4	3	3		22.04	22.09	21.98		
1.4	6	0		21.07	21.19	21.13		
Limit	EIRP < 2W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.43	23.50	23.51	17.21	0.0526
20	1	49		23.46	23.49	23.47		
20	1	99		23.46	23.48	23.43		
20	50	0		22.57	22.59	22.60		
20	50	24		22.56	22.59	22.58		
20	50	50		22.55	22.58	22.56		
20	100	0		22.56	22.57	22.56		
20	1	0	16-QAM	22.44	22.51	22.47	16.21	0.0418
20	1	49		22.41	22.46	22.40		
20	1	99		22.42	22.45	22.33		
20	50	0		21.55	21.61	21.60		
20	50	24		21.57	21.60	21.59		
20	50	50		21.56	21.59	21.56		
20	100	0		21.55	21.56	21.57		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.43	23.50	23.50	17.20	0.0525
15	1	37		23.46	23.48	23.50		
15	1	74		23.45	23.50	23.45		
15	36	0		22.55	22.58	22.58		
15	36	20		22.55	22.57	22.57		
15	36	39		22.56	22.56	22.54		
15	75	0		22.55	22.57	22.56		
15	1	0	16-QAM	22.35	22.43	22.42	16.15	0.0412
15	1	37		22.44	22.45	22.41		
15	1	74		22.41	22.41	22.29		
15	36	0		21.49	21.53	21.54		
15	36	20		21.49	21.53	21.50		
15	36	39		21.49	21.51	21.49		
15	75	0		21.56	21.57	21.55		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.23	23.28	23.30	17.00	0.0501
10	1	25		23.25	23.28	23.28		
10	1	49		23.28	23.27	23.25		
10	25	0		22.31	22.32	22.34		
10	25	12		22.31	22.34	22.32		
10	25	25		22.33	22.34	22.30		
10	50	0		22.33	22.34	22.33		
10	1	0	16-QAM	22.29	22.29	22.33	16.03	0.0401
10	1	25		22.24	22.22	22.28		
10	1	49		22.23	22.21	22.16		
10	25	0		21.31	21.31	21.29		
10	25	12		21.33	21.31	21.29		
10	25	25		21.32	21.31	21.28		
10	50	0		21.34	21.34	21.32		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.48	23.50	23.49	17.20	0.0525
5	1	12		23.48	23.50	23.45		
5	1	24		23.50	23.49	23.45		
5	12	0		22.52	22.56	22.52		
5	12	7		22.56	22.55	22.52		
5	12	13		22.55	22.55	22.52		
5	25	0		22.55	22.56	22.54		
5	1	0	16-QAM	22.35	22.46	22.40	16.17	0.0414
5	1	12		22.47	22.38	22.40		
5	1	24		22.31	22.22	22.36		
5	12	0		21.53	21.58	21.52		
5	12	7		21.54	21.55	21.50		
5	12	13		21.53	21.53	21.51		
5	25	0		21.49	21.54	21.53		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.33	23.38	23.31	17.08	0.0511
3	1	8		23.34	23.35	23.30		
3	1	14		23.36	23.37	23.30		
3	8	0		22.36	22.36	22.30		
3	8	4		22.36	22.36	22.33		
3	8	7		22.36	22.34	22.30		
3	15	0		22.36	22.36	22.29		
3	1	0	16-QAM	22.27	22.30	22.23	16.00	0.0398
3	1	8		22.21	22.25	22.18		
3	1	14		22.24	22.22	22.19		
3	8	0		21.31	21.35	21.28		
3	8	4		21.33	21.36	21.27		
3	8	7		21.31	21.31	21.24		
3	15	0		21.32	21.35	21.27		
Limit	EIRP < 1W			Result			Pass	

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -6.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.19	23.22	23.22	17.01	0.0502
1.4	1	3		23.20	23.23	23.20		
1.4	1	5		23.20	23.23	23.19		
1.4	3	0		23.27	23.31	23.23		
1.4	3	1		23.29	23.30	23.25		
1.4	3	3		23.30	23.30	23.26		
1.4	6	0		22.29	22.31	22.24		
1.4	1	0	16-QAM	22.15	22.27	22.21	15.98	0.0396
1.4	1	3		22.17	22.17	22.28		
1.4	1	5		22.21	22.17	22.26		
1.4	3	0		22.06	22.13	22.03		
1.4	3	1		22.10	22.16	22.06		
1.4	3	3		22.09	22.13	22.06		
1.4	6	0		21.32	21.26	21.21		
Limit	EIRP < 1W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.25	23.27	23.23	6.92	0.0049
10	1	25		23.21	23.15	23.10		
10	1	49		23.19	23.13	23.03		
10	25	0		22.28	22.21	22.21		
10	25	12		22.28	22.20	22.17		
10	25	25		22.27	22.19	22.15		
10	50	0		22.27	22.20	22.19		
10	1	0	16-QAM	22.03	21.95	22.03	5.68	0.0037
10	1	25		22.02	21.88	21.83		
10	1	49		22.00	21.92	21.90		
10	25	0		21.23	21.17	21.15		
10	25	12		21.21	21.14	21.11		
10	25	25		21.19	21.14	21.09		
10	50	0		21.24	21.19	21.16		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.22	23.25	23.26	6.91	0.0049
5	1	12		23.19	23.23	23.20		
5	1	24		23.17	23.20	23.16		
5	12	0		22.36	22.30	22.27		
5	12	7		22.34	22.28	22.25		
5	12	13		22.32	22.27	22.23		
5	25	0		22.33	22.29	22.25		
5	1	0	16-QAM	22.15	22.02	22.14	5.82	0.0038
5	1	12		22.11	22.05	22.17		
5	1	24		22.15	22.07	22.12		
5	12	0		21.29	21.26	21.22		
5	12	7		21.27	21.27	21.18		
5	12	13		21.28	21.26	21.18		
5	25	0		21.30	21.26	21.21		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.13	23.13	23.01	6.78	0.0048
3	1	8		23.10	23.12	22.97		
3	1	14		23.07	23.12	22.95		
3	8	0		22.12	22.12	21.99		
3	8	4		22.14	22.12	21.97		
3	8	7		22.13	22.10	21.97		
3	15	0		22.13	22.09	21.98		
3	1	0	16-QAM	22.06	22.09	22.01	5.75	0.0038
3	1	8		22.06	22.00	21.99		
3	1	14		22.10	22.04	21.90		
3	8	0		21.10	21.08	20.95		
3	8	4		21.10	21.10	20.96		
3	8	7		21.13	21.09	20.94		
3	15	0		21.10	21.07	20.94		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.11	23.03	22.93	6.86	0.0049
1.4	1	3		23.15	23.06	22.93		
1.4	1	5		23.15	23.04	22.89		
1.4	3	0		23.19	23.09	22.97		
1.4	3	1		23.19	23.11	22.97		
1.4	3	3		23.21	23.11	22.97		
1.4	6	0		22.18	22.08	21.93		
1.4	1	0	16-QAM	22.16	22.04	21.97	5.83	0.0038
1.4	1	3		22.18	21.98	21.92		
1.4	1	5		22.15	21.97	21.91		
1.4	3	0		22.03	21.91	21.89		
1.4	3	1		21.99	21.95	21.84		
1.4	3	3		22.01	21.98	21.79		
1.4	6	0		21.15	21.12	20.86		
Limit	ERP < 7W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.67	23.72	23.57	4.77	0.0030
10	1	25		23.53	23.60	23.47		
10	1	49		23.55	23.62	23.53		
10	25	0		22.60	22.66	22.55		
10	25	12		22.57	22.66	22.57		
10	25	25		22.54	22.67	22.58		
10	50	0		22.58	22.67	22.59		
10	1	0	16-QAM	22.31	22.38	22.33	3.44	0.0022
10	1	25		22.36	22.32	22.33		
10	1	49		22.33	22.29	22.39		
10	25	0		21.58	21.63	21.52		
10	25	12		21.55	21.63	21.52		
10	25	25		21.57	21.63	21.54		
10	50	0		21.59	21.67	21.58		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.63	23.67	23.60	4.76	0.0030
5	1	12		23.61	23.70	23.62		
5	1	24		23.60	23.71	23.63		
5	12	0		22.64	22.72	22.63		
5	12	7		22.60	22.74	22.64		
5	12	13		22.62	22.74	22.65		
5	25	0		22.63	22.74	22.65		
5	1	0	16-QAM	22.43	22.67	22.49	3.72	0.0024
5	1	12		22.27	22.64	22.57		
5	1	24		22.31	22.61	22.54		
5	12	0		21.63	21.72	21.61		
5	12	7		21.63	21.71	21.63		
5	12	13		21.61	21.71	21.62		
5	25	0		21.64	21.73	21.64		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.44	23.48	23.51	4.6	0.0029
3	1	8		23.45	23.45	23.51		
3	1	14		23.46	23.48	23.55		
3	8	0		22.45	22.47	22.52		
3	8	4		22.45	22.47	22.54		
3	8	7		22.44	22.45	22.53		
3	15	0		22.42	22.45	22.53		
3	1	0	16-QAM	22.44	22.43	22.48	3.54	0.0023
3	1	8		22.38	22.34	22.47		
3	1	14		22.40	22.30	22.49		
3	8	0		21.36	21.45	21.50		
3	8	4		21.37	21.45	21.51		
3	8	7		21.39	21.42	21.53		
3	15	0		21.38	21.42	21.48		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.40	23.36	23.46	4.56	0.0029
1.4	1	3		23.41	23.37	23.46		
1.4	1	5		23.41	23.38	23.47		
1.4	3	0		23.42	23.43	23.50		
1.4	3	1		23.43	23.44	23.51		
1.4	3	3		23.45	23.46	23.51		
1.4	6	0		22.44	22.46	22.50		
1.4	1	0	16-QAM	22.37	22.36	22.40	3.51	0.0022
1.4	1	3		22.36	22.24	22.40		
1.4	1	5		22.46	22.31	22.42		
1.4	3	0		22.39	22.31	22.33		
1.4	3	1		22.30	22.28	22.35		
1.4	3	3		22.29	22.32	22.34		
1.4	6	0		21.30	21.41	21.41		
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -15.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	23.65	-	5.9	0.0039
10	1	25			23.44			
10	1	49			23.42			
10	25	0			22.53			
10	25	12			22.51			
10	25	25			22.50			
10	50	0			22.53			
10	1	0	16-QAM		22.39		4.64	0.0029
10	1	25			22.26			
10	1	49			22.26			
10	25	0			21.55			
10	25	12			21.52			
10	25	25			21.49			
10	50	0			21.58			
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -15.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.63	23.59	23.60	5.89	0.0039
5	1	12		23.62	23.55	23.64		
5	1	24		23.61	23.53	23.60		
5	12	0		22.69	22.58	22.64		
5	12	7		22.65	22.57	22.65		
5	12	13		22.64	22.56	22.64		
5	25	0		22.65	22.59	22.65		
5	1	0	16-QAM	22.51	22.40	22.50	4.76	0.0030
5	1	12		22.48	22.40	22.32		
5	1	24		22.41	22.33	22.30		
5	12	0		21.71	21.61	21.69		
5	12	7		21.68	21.60	21.68		
5	12	13		21.65	21.58	21.68		
5	25	0		21.68	21.60	21.67		
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.50	23.62	23.48	4.67	0.0029
10	1	25		23.46	23.50	23.51		
10	1	49		23.50	23.52	23.55		
10	25	0		22.48	22.57	22.53		
10	25	12		22.50	22.57	22.54		
10	25	25		22.51	22.58	22.55		
10	50	0		22.52	22.57	22.53		
10	1	0	16-QAM	22.17	22.39	22.39	3.44	0.0022
10	1	25		22.27	22.37	22.36		
10	1	49		22.26	22.39	22.36		
10	25	0		21.47	21.52	21.50		
10	25	12		21.46	21.51	21.51		
10	25	25		21.46	21.54	21.53		
10	50	0		21.50	21.53	21.52		
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -16.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.52	23.43	23.48	4.57	0.0029
5	1	12		23.50	23.44	23.50		
5	1	24		23.50	23.47	23.51		
5	12	0		22.50	22.43	22.50		
5	12	7		22.50	22.43	22.49		
5	12	13		22.50	22.47	22.53		
5	25	0		22.51	22.45	22.51		
5	1	0	16-QAM	22.35	22.36	22.36	3.45	0.0022
5	1	12		22.35	22.36	22.38		
5	1	24		22.36	22.36	22.40		
5	12	0		21.51	21.44	21.46		
5	12	7		21.49	21.46	21.46		
5	12	13		21.50	21.47	21.46		
5	25	0		21.53	21.45	21.45		
Limit	ERP < 3W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.17	23.20	23.18	6.85	0.0048
15	1	37		23.18	23.13	23.13		
15	1	74		23.13	23.09	23.04		
15	36	0		22.26	22.22	22.26		
15	36	20		22.24	22.23	22.23		
15	36	39		22.21	22.22	22.21		
15	75	0		22.22	22.22	22.24		
15	1	0	16-QAM	22.03	22.04	22.01	5.69	0.0037
15	1	37		21.94	22.01	21.98		
15	1	74		21.88	21.98	21.92		
15	36	0		21.18	21.19	21.19		
15	36	20		21.16	21.18	21.16		
15	36	39		21.15	21.17	21.16		
15	75	0		21.18	21.19	21.21		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.10	23.02	22.95	6.75	0.0047
10	1	25		23.09	23.01	22.94		
10	1	49		23.03	22.97	22.85		
10	25	0		22.15	22.06	22.00		
10	25	12		22.12	22.06	21.98		
10	25	25		22.10	22.05	21.94		
10	50	0		22.13	22.06	21.98		
10	1	0	16-QAM	22.07	21.91	21.96	5.72	0.0037
10	1	25		21.90	21.82	21.76		
10	1	49		21.88	21.81	21.78		
10	25	0		21.06	21.02	20.97		
10	25	12		21.05	21.00	20.94		
10	25	25		21.06	20.99	20.90		
10	50	0		21.08	21.05	20.98		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.14	23.19	23.14	6.84	0.0048
5	1	12		23.13	23.18	23.11		
5	1	24		23.11	23.17	23.06		
5	12	0		22.18	22.22	22.18		
5	12	7		22.18	22.21	22.16		
5	12	13		22.17	22.20	22.14		
5	25	0		22.19	22.22	22.18		
5	1	0	16-QAM	22.09	22.10	22.05	5.76	0.0038
5	1	12		21.91	22.09	22.03		
5	1	24		21.88	22.11	22.00		
5	12	0		21.13	21.11	21.12		
5	12	7		21.13	21.13	21.10		
5	12	13		21.12	21.17	21.09		
5	25	0		21.14	21.16	21.11		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.09	23.07	23.02	6.75	0.0047
3	1	8		23.10	23.04	22.96		
3	1	14		23.10	23.04	22.97		
3	8	0		22.11	22.07	21.99		
3	8	4		22.09	22.08	21.98		
3	8	7		22.09	22.07	21.96		
3	15	0		22.11	22.09	21.98		
3	1	0	16-QAM	22.12	22.01	21.93	5.77	0.0038
3	1	8		22.00	21.98	21.91		
3	1	14		22.05	21.98	21.89		
3	8	0		21.07	21.03	20.94		
3	8	4		21.07	21.04	20.91		
3	8	7		21.07	21.01	20.90		
3	15	0		21.06	21.01	20.93		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.03	23.02	22.90	6.77	0.0048
1.4	1	3		23.05	23.04	22.89		
1.4	1	5		23.06	23.04	22.89		
1.4	3	0		23.11	23.08	22.96		
1.4	3	1		23.11	23.09	22.98		
1.4	3	3		23.12	23.08	22.97		
1.4	6	0		22.12	22.07	21.95		
1.4	1	0	16-QAM	21.94	21.92	22.03	5.68	0.0037
1.4	1	3		21.85	21.96	22.02		
1.4	1	5		21.90	21.92	21.97		
1.4	3	0		21.96	21.96	21.84		
1.4	3	1		21.96	21.94	21.83		
1.4	3	3		21.99	21.91	21.77		
1.4	6	0		21.04	21.00	20.94		
Limit	ERP < 7W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.50	23.56	23.53	17.06	0.0508
20	1	49		23.50	23.46	23.44		
20	1	99		23.49	23.40	23.41		
20	50	0		22.61	22.59	22.59		
20	50	24		22.59	22.58	22.56		
20	50	50		22.60	22.55	22.52		
20	100	0		22.60	22.55	22.55		
20	1	0	16-QAM	22.43	22.48	22.51	16.01	0.0399
20	1	49		22.44	22.46	22.36		
20	1	99		22.42	22.37	22.30		
20	50	0		21.62	21.61	21.62		
20	50	24		21.63	21.58	21.60		
20	50	50		21.64	21.57	21.59		
20	100	0		21.61	21.58	21.59		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.41	23.44	23.38	16.94	0.0494
15	1	37		23.43	23.38	23.32		
15	1	74		23.43	23.36	23.30		
15	36	0		22.48	22.45	22.43		
15	36	20		22.49	22.44	22.42		
15	36	39		22.49	22.43	22.39		
15	75	0		22.49	22.44	22.43		
15	1	0	16-QAM	22.24	22.33	22.28	15.83	0.0383
15	1	37		22.24	22.27	22.26		
15	1	74		22.33	22.27	22.18		
15	36	0		21.48	21.48	21.44		
15	36	20		21.45	21.46	21.40		
15	36	39		21.47	21.44	21.40		
15	75	0		21.50	21.49	21.44		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.30	23.29	23.28	16.85	0.0484
10	1	25		23.32	23.28	23.25		
10	1	49		23.35	23.28	23.24		
10	25	0		22.36	22.34	22.31		
10	25	12		22.37	22.32	22.31		
10	25	25		22.36	22.31	22.28		
10	50	0		22.38	22.34	22.33		
10	1	0	16-QAM	22.25	22.21	22.24	15.78	0.0378
10	1	25		22.28	22.14	22.21		
10	1	49		22.25	22.08	22.12		
10	25	0		21.35	21.35	21.31		
10	25	12		21.32	21.32	21.31		
10	25	25		21.35	21.31	21.27		
10	50	0		21.39	21.36	21.33		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.39	23.44	23.36	16.94	0.0494
5	1	12		23.39	23.39	23.34		
5	1	24		23.39	23.38	23.34		
5	12	0		22.44	22.44	22.39		
5	12	7		22.45	22.43	22.40		
5	12	13		22.45	22.44	22.37		
5	25	0		22.45	22.46	22.40		
5	1	0	16-QAM	22.37	22.28	22.24	15.87	0.0386
5	1	12		22.33	22.24	22.12		
5	1	24		22.35	22.15	22.10		
5	12	0		21.43	21.44	21.36		
5	12	7		21.43	21.43	21.36		
5	12	13		21.44	21.43	21.35		
5	25	0		21.45	21.42	21.41		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.35	23.38	23.36	16.88	0.0488
3	1	8		23.36	23.36	23.34		
3	1	14		23.38	23.34	23.35		
3	8	0		22.37	22.34	22.32		
3	8	4		22.37	22.34	22.32		
3	8	7		22.36	22.33	22.30		
3	15	0		22.38	22.35	22.35		
3	1	0	16-QAM	22.36	22.32	22.23	15.88	0.0387
3	1	8		22.34	22.28	22.24		
3	1	14		22.38	22.28	22.21		
3	8	0		21.34	21.36	21.30		
3	8	4		21.37	21.37	21.32		
3	8	7		21.36	21.36	21.31		
3	15	0		21.34	21.34	21.32		
Limit	EIRP < 1W			Result			Pass	

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -6.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.28	23.23	23.30	16.88	0.0488
1.4	1	3		23.26	23.24	23.28		
1.4	1	5		23.28	23.23	23.27		
1.4	3	0		23.38	23.31	23.32		
1.4	3	1		23.38	23.33	23.33		
1.4	3	3		23.37	23.35	23.34		
1.4	6	0		22.35	22.31	22.30		
1.4	1	0	16-QAM	22.29	22.24	22.16	15.79	0.0379
1.4	1	3		22.27	22.27	22.16		
1.4	1	5		22.24	22.23	22.25		
1.4	3	0		22.15	22.08	22.12		
1.4	3	1		22.19	22.14	22.13		
1.4	3	3		22.23	22.17	22.13		
1.4	6	0		21.32	21.26	21.32		
Limit	EIRP < 1W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	23.39	23.41	23.40	3.56	0.0023
20	1	49		23.32	23.24	23.30		
20	1	99		23.19	23.17	23.28		
20	50	0		22.45	22.36	22.44		
20	50	24		22.38	22.30	22.38		
20	50	50		22.32	22.24	22.36		
20	100	0		22.37	22.32	22.39		
20	1	0	16-QAM	22.36	22.28	22.35	2.51	0.0018
20	1	49		22.25	22.14	22.21		
20	1	99		22.09	22.04	22.19		
20	50	0		21.38	21.33	21.38		
20	50	24		21.32	21.27	21.38		
20	50	50		21.28	21.26	21.35		
20	100	0		21.31	21.28	21.36		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.34	23.30	23.25	3.49	0.0022
15	1	37		23.30	23.19	23.21		
15	1	74		23.20	23.11	23.18		
15	36	0		22.41	22.33	22.31		
15	36	20		22.39	22.30	22.26		
15	36	39		22.34	22.27	22.24		
15	75	0		22.37	22.31	22.25		
15	1	0	16-QAM	22.24	22.22	22.09	2.39	0.0017
15	1	37		22.17	22.09	22.05		
15	1	74		22.06	21.96	21.97		
15	36	0		21.35	21.28	21.23		
15	36	20		21.30	21.25	21.22		
15	36	39		21.26	21.18	21.22		
15	75	0		21.35	21.25	21.28		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.22	23.21	23.19	3.37	0.0022
10	1	25		23.18	23.15	23.20		
10	1	49		23.15	23.11	23.20		
10	25	0		22.27	22.23	22.21		
10	25	12		22.24	22.20	22.19		
10	25	25		22.22	22.17	22.22		
10	50	0		22.26	22.21	22.22		
10	1	0	16-QAM	22.17	22.07	22.04	2.32	0.0017
10	1	25		22.11	21.91	22.12		
10	1	49		22.00	21.94	21.92		
10	25	0		21.21	21.17	21.15		
10	25	12		21.17	21.10	21.14		
10	25	25		21.18	21.10	21.12		
10	50	0		21.22	21.17	21.17		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.32	23.35	23.30	3.5	0.0022
5	1	12		23.35	23.31	23.30		
5	1	24		23.33	23.28	23.30		
5	12	0		22.46	22.33	22.32		
5	12	7		22.45	22.32	22.30		
5	12	13		22.44	22.30	22.31		
5	25	0		22.44	22.31	22.31		
5	1	0	16-QAM	22.33	22.03	21.99	2.51	0.0018
5	1	12		22.36	22.03	22.19		
5	1	24		22.21	22.19	22.17		
5	12	0		21.36	21.24	21.25		
5	12	7		21.36	21.24	21.23		
5	12	13		21.36	21.23	21.28		
5	25	0		21.39	21.30	21.27		
Limit	ERP < 3W			Result			Pass	

<Bottom Antenna>

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.96	23.93	23.95	7.62	0.0058
10	1	25		23.97	23.94	23.91		
10	1	49		23.52	23.72	23.05		
10	25	0		23.03	23.00	23.01		
10	25	12		23.04	22.98	22.99		
10	25	25		23.01	22.97	22.97		
10	50	0		23.03	23.00	23.00		
10	1	0	16-QAM	22.87	22.80	22.88	6.53	0.0045
10	1	25		22.83	22.82	22.78		
10	1	49		22.84	22.79	22.33		
10	25	0		21.95	21.94	21.97		
10	25	12		21.95	21.94	21.94		
10	25	25		21.93	21.95	21.89		
10	50	0		21.96	21.97	21.97		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.96	23.91	23.93	7.61	0.0058
5	1	12		23.88	23.90	23.87		
5	1	24		23.94	23.89	23.61		
5	12	0		23.03	22.98	22.96		
5	12	7		23.02	22.97	22.98		
5	12	13		23.00	22.97	22.94		
5	25	0		23.02	22.96	22.97		
5	1	0	16-QAM	22.70	22.83	22.87	6.52	0.0045
5	1	12		22.74	22.85	22.84		
5	1	24		22.70	22.83	22.86		
5	12	0		21.97	21.88	21.91		
5	12	7		21.96	21.90	21.90		
5	12	13		21.96	21.89	21.89		
5	25	0		21.92	21.90	21.88		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.91	23.94	23.96	7.61	0.0058
3	1	8		23.91	23.96	23.92		
3	1	14		23.91	23.96	23.88		
3	8	0		23.03	23.00	23.06		
3	8	4		23.03	22.98	23.04		
3	8	7		23.01	22.98	23.01		
3	15	0		23.02	22.97	23.02		
3	1	0	16-QAM	22.96	22.98	23.01	6.66	0.0046
3	1	8		22.93	22.93	22.99		
3	1	14		22.85	22.91	22.97		
3	8	0		21.97	21.93	21.98		
3	8	4		21.96	21.95	21.98		
3	8	7		21.97	21.96	21.92		
3	15	0		21.97	21.91	21.94		
Limit	ERP < 7W			Result			Pass	

LTE Band 5 Maximum Average Power [dBm] (GT - LC = -14.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.88	23.91	23.88	7.61	0.0058
1.4	1	3		23.88	23.92	23.87		
1.4	1	5		23.90	23.89	23.89		
1.4	3	0		23.94	23.95	23.92		
1.4	3	1		23.95	23.91	23.88		
1.4	3	3		23.94	23.96	23.96		
1.4	6	0		23.03	22.98	22.97		
1.4	1	0	16-QAM	22.99	23.01	22.91	6.76	0.0047
1.4	1	3		23.00	23.09	22.87		
1.4	1	5		22.96	23.11	22.89		
1.4	3	0		22.84	22.86	22.86		
1.4	3	1		22.84	22.83	22.86		
1.4	3	3		22.81	22.80	22.82		
1.4	6	0		22.01	21.92	21.91		
Limit	ERP < 7W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.84	24.12	24.10	7.4	0.0055
10	1	25		24.14	24.25	24.12		
10	1	49		24.12	23.82	23.85		
10	25	0		23.18	23.28	23.14		
10	25	12		23.17	23.28	23.17		
10	25	25		23.18	23.31	23.20		
10	50	0		23.17	23.31	23.19		
10	1	0	16-QAM	23.10	23.13	23.02	6.28	0.0042
10	1	25		23.05	23.04	22.90		
10	1	49		23.01	23.08	23.08		
10	25	0		22.18	22.26	22.16		
10	25	12		22.15	22.25	22.13		
10	25	25		22.12	22.27	22.18		
10	50	0		22.16	22.31	22.21		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.12	24.21	24.11	7.36	0.0054
5	1	12		24.13	24.19	24.14		
5	1	24		24.13	24.21	24.18		
5	12	0		23.16	23.25	23.19		
5	12	7		23.17	23.25	23.18		
5	12	13		23.15	23.23	23.21		
5	25	0		23.15	23.24	23.20		
5	1	0	16-QAM	23.03	23.17	22.99	6.32	0.0043
5	1	12		23.03	23.12	23.05		
5	1	24		23.08	23.09	23.11		
5	12	0		22.14	22.19	22.17		
5	12	7		22.17	22.22	22.16		
5	12	13		22.15	22.22	22.20		
5	25	0		22.13	22.22	22.19		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	24.18	24.21	24.21	7.38	0.0055
3	1	8		24.20	24.20	24.21		
3	1	14		24.22	24.18	24.23		
3	8	0		23.20	23.28	23.22		
3	8	4		23.20	23.29	23.24		
3	8	7		23.19	23.28	23.24		
3	15	0		23.19	23.27	23.23		
3	1	0	16-QAM	23.12	23.30	23.19	6.45	0.0044
3	1	8		23.16	23.22	23.20		
3	1	14		23.15	23.25	23.20		
3	8	0		22.17	22.25	22.19		
3	8	4		22.16	22.26	22.21		
3	8	7		22.16	22.22	22.23		
3	15	0		22.16	22.25	22.24		
Limit	ERP < 3W			Result			Pass	

LTE Band 12 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.98	24.20	24.18	7.39	0.0055
1.4	1	3		24.07	24.21	24.17		
1.4	1	5		24.11	24.19	24.18		
1.4	3	0		23.74	24.15	24.15		
1.4	3	1		24.18	24.17	24.24		
1.4	3	3		24.19	24.21	24.16		
1.4	6	0		23.17	23.29	23.26		
1.4	1	0	16-QAM	23.00	23.26	23.25	6.41	0.0044
1.4	1	3		23.12	23.25	23.23		
1.4	1	5		22.97	23.25	23.19		
1.4	3	0		23.08	23.11	23.09		
1.4	3	1		23.04	23.12	23.05		
1.4	3	3		23.03	23.10	23.04		
1.4	6	0		22.18	22.27	22.25		
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -13.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	24.14	-	8.97	0.0079
10	1	25			24.19			
10	1	49			24.22			
10	25	0			23.30			
10	25	12			23.27			
10	25	25			23.27			
10	50	0			23.30			
10	1	0	16-QAM		23.17		7.92	0.0062
10	1	25			23.06			
10	1	49			23.12			
10	25	0			22.31			
10	25	12			22.28			
10	25	25			22.28			
10	50	0			22.33			
Limit	ERP < 3W			Result			Pass	

LTE Band 13 Maximum Average Power [dBm] (GT - LC = -13.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.57	24.18	24.05	8.96	0.0079
5	1	12		24.15	24.15	24.20		
5	1	24		23.87	24.17	24.21		
5	12	0		23.33	23.24	23.33		
5	12	7		23.31	23.22	23.32		
5	12	13		23.30	23.23	23.32		
5	25	0		23.34	23.26	23.33		
5	1	0	16-QAM	22.80	23.05	23.16	7.91	0.0062
5	1	12		23.12	23.04	23.16		
5	1	24		23.08	23.04	23.16		
5	12	0		22.29	22.21	22.31		
5	12	7		22.29	22.23	22.32		
5	12	13		22.29	22.24	22.35		
5	25	0		22.34	22.26	22.34		
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	24.13	24.12	24.11	7.34	0.0054
10	1	25		24.14	24.19	24.12		
10	1	49		23.71	23.81	23.74		
10	25	0		23.16	23.17	23.16		
10	25	12		23.17	23.20	23.20		
10	25	25		23.18	23.21	23.23		
10	50	0		23.17	23.22	23.24		
10	1	0	16-QAM	22.99	23.03	22.98	6.18	0.0041
10	1	25		22.91	22.89	23.03		
10	1	49		23.00	22.88	23.03		
10	25	0		22.14	22.17	22.15		
10	25	12		22.12	22.15	22.17		
10	25	25		22.15	22.21	22.21		
10	50	0		22.16	22.17	22.18		
Limit	ERP < 3W			Result			Pass	

LTE Band 17 Maximum Average Power [dBm] (GT - LC = -14.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.07	24.14	24.09	7.33	0.0054
5	1	12		24.07	24.14	24.09		
5	1	24		24.07	24.18	24.14		
5	12	0		23.10	23.15	23.10		
5	12	7		23.10	23.16	23.13		
5	12	13		23.09	23.15	23.12		
5	25	0		23.10	23.16	23.11		
5	1	0	16-QAM	22.96	23.04	22.91	6.22	0.0042
5	1	12		22.92	23.03	22.96		
5	1	24		22.93	23.07	23.00		
5	12	0		22.07	22.10	22.07		
5	12	7		22.08	22.13	22.08		
5	12	13		22.07	22.13	22.11		
5	25	0		22.09	22.13	22.05		
Limit	ERP < 3W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.98	23.95	23.89	7.83	0.0061
15	1	37		23.94	23.92	23.88		
15	1	74		23.92	23.90	23.85		
15	36	0		23.05	23.02	22.99		
15	36	20		23.04	23.02	22.98		
15	36	39		23.02	23.01	22.97		
15	75	0		23.05	23.05	22.98		
15	1	0	16-QAM	22.82	22.82	22.76	6.71	0.0047
15	1	37		22.80	22.86	22.77		
15	1	74		22.81	22.79	22.76		
15	36	0		22.00	21.98	21.95		
15	36	20		21.98	21.97	21.94		
15	36	39		21.98	21.96	21.93		
15	75	0		22.03	22.02	21.97		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.92	23.88	23.95	7.8	0.0060
10	1	25		23.93	23.92	23.89		
10	1	49		23.92	23.90	23.03		
10	25	0		23.00	22.94	22.99		
10	25	12		22.98	22.97	22.97		
10	25	25		22.97	22.96	22.93		
10	50	0		22.98	22.99	22.96		
10	1	0	16-QAM	22.76	22.88	22.84	6.73	0.0047
10	1	25		22.70	22.79	22.70		
10	1	49		22.71	22.79	22.32		
10	25	0		21.97	21.92	21.92		
10	25	12		21.95	21.90	21.90		
10	25	25		21.95	21.90	21.88		
10	50	0		21.96	21.94	21.90		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.90	23.91	23.93	7.78	0.0060
5	1	12		23.86	23.89	23.89		
5	1	24		23.89	23.89	23.39		
5	12	0		22.98	22.96	22.96		
5	12	7		22.96	22.96	22.96		
5	12	13		22.95	22.94	22.94		
5	25	0		22.95	22.97	22.97		
5	1	0	16-QAM	22.79	22.76	22.84	6.69	0.0047
5	1	12		22.81	22.73	22.80		
5	1	24		22.81	22.75	22.71		
5	12	0		21.88	21.88	21.88		
5	12	7		21.90	21.88	21.84		
5	12	13		21.89	21.86	21.83		
5	25	0		21.91	21.89	21.89		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.92	23.90	23.96	7.82	0.0061
3	1	8		23.95	23.97	23.92		
3	1	14		23.97	23.92	23.30		
3	8	0		23.01	22.99	22.97		
3	8	4		22.99	23.01	22.95		
3	8	7		22.99	23.00	22.95		
3	15	0		23.00	23.01	22.95		
3	1	0	16-QAM	22.95	23.01	22.92	6.86	0.0049
3	1	8		22.93	22.90	22.84		
3	1	14		22.91	22.86	22.69		
3	8	0		21.91	21.91	21.87		
3	8	4		21.93	21.92	21.86		
3	8	7		21.93	21.90	21.86		
3	15	0		21.93	21.88	21.90		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Maximum Average Power [dBm] (GT - LC = -14 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.95	23.90	23.86	7.82	0.0061
1.4	1	3		23.97	23.90	23.84		
1.4	1	5		23.97	23.89	23.70		
1.4	3	0		23.94	23.95	23.90		
1.4	3	1		23.94	23.96	23.91		
1.4	3	3		23.94	23.97	23.74		
1.4	6	0		23.05	22.96	22.93		
1.4	1	0	16-QAM	23.02	22.98	22.92	6.87	0.0049
1.4	1	3		22.97	22.98	22.83		
1.4	1	5		22.97	22.93	22.82		
1.4	3	0		22.85	22.75	22.80		
1.4	3	1		22.80	22.74	22.83		
1.4	3	3		22.83	22.74	22.78		
1.4	6	0		22.01	21.95	21.91		
Limit	ERP < 7W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.71	23.89	23.99	4.14	0.0026
20	1	49		23.88	23.77	23.88		
20	1	99		23.79	23.76	23.89		
20	50	0		23.02	22.92	22.99		
20	50	24		22.98	22.88	22.95		
20	50	50		22.89	22.84	22.95		
20	100	0		22.95	22.90	22.97		
20	1	0	16-QAM	22.12	22.81	22.80	2.96	0.0020
20	1	49		22.74	22.73	22.66		
20	1	99		22.65	22.71	22.76		
20	50	0		21.98	21.92	21.98		
20	50	24		21.91	21.88	21.96		
20	50	50		21.88	21.85	21.94		
20	100	0		21.90	21.86	21.93		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.90	23.93	23.91	4.08	0.0026
15	1	37		23.90	23.82	23.83		
15	1	74		23.83	23.80	23.82		
15	36	0		23.02	22.98	22.91		
15	36	20		22.99	22.94	22.90		
15	36	39		22.95	22.88	22.90		
15	75	0		22.98	22.94	22.92		
15	1	0	16-QAM	22.87	22.81	22.70	3.02	0.0020
15	1	37		22.77	22.70	22.68		
15	1	74		22.68	22.62	22.71		
15	36	0		21.98	21.91	21.89		
15	36	20		21.96	21.88	21.87		
15	36	39		21.90	21.83	21.87		
15	75	0		21.97	21.93	21.90		
Limit	ERP < 3W			Result			Pass	

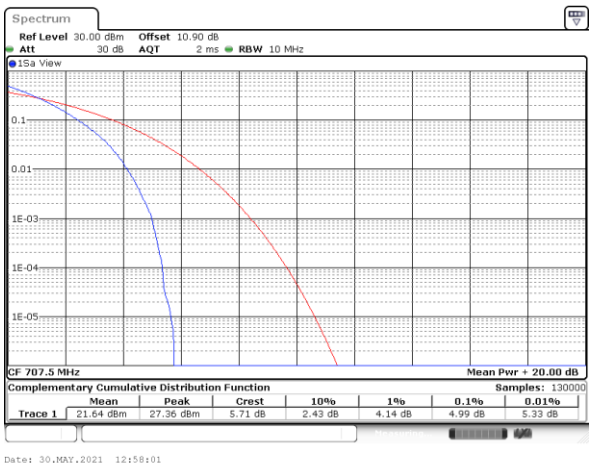
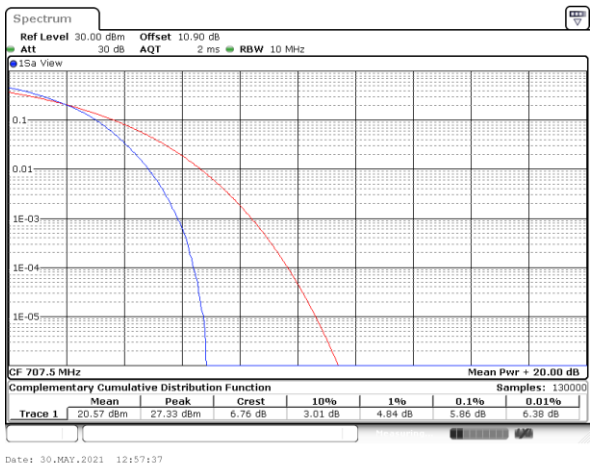
LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.52	23.85	23.90	4.08	0.0026
10	1	25		23.93	23.77	23.89		
10	1	49		23.86	23.75	23.90		
10	25	0		22.97	22.87	22.91		
10	25	12		22.96	22.86	22.90		
10	25	25		22.93	22.84	22.90		
10	50	0		22.94	22.84	22.92		
10	1	0	16-QAM	22.83	22.79	22.82	2.99	0.0020
10	1	25		22.84	22.70	22.84		
10	1	49		22.70	22.61	22.80		
10	25	0		21.92	21.80	21.88		
10	25	12		21.94	21.81	21.90		
10	25	25		21.89	21.81	21.86		
10	50	0		21.94	21.84	21.94		
Limit	ERP < 3W			Result			Pass	

LTE Band 71 Maximum Average Power [dBm] (GT - LC = -17.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.98	23.78	23.88	4.13	0.0026
5	1	12		23.90	23.76	23.86		
5	1	24		23.96	23.73	23.88		
5	12	0		23.00	22.83	22.92		
5	12	7		23.00	22.83	22.91		
5	12	13		23.00	22.80	22.91		
5	25	0		22.99	22.81	22.91		
5	1	0	16-QAM	22.85	22.69	22.74	3	0.0020
5	1	12		22.78	22.67	22.74		
5	1	24		22.77	22.68	22.79		
5	12	0		21.88	21.76	21.87		
5	12	7		21.91	21.75	21.88		
5	12	13		21.89	21.71	21.88		
5	25	0		21.95	21.78	21.87		
Limit	ERP < 3W			Result			Pass	

LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.86	-	-	PASS

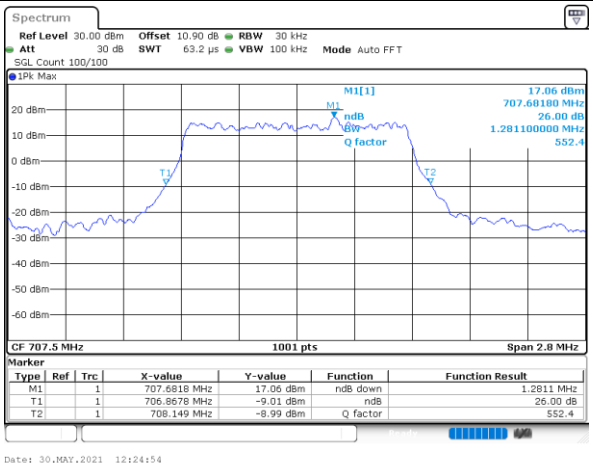
LTE Band 12 / 10MHz / QPSK	LTE Band 12 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

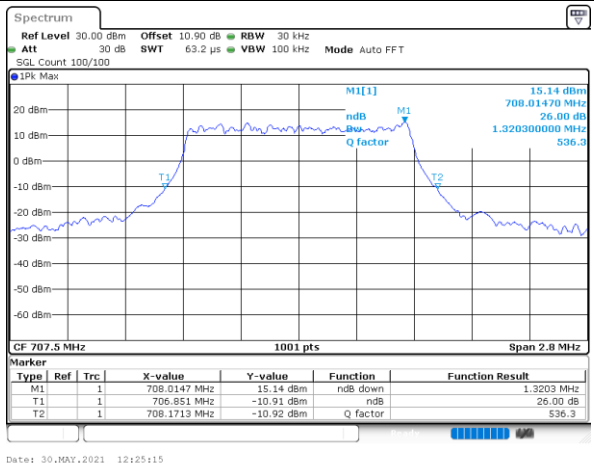
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.32	3.12	3.12	5.10	5.23	10.15	10.05	-	-	-	-

LTE Band 12

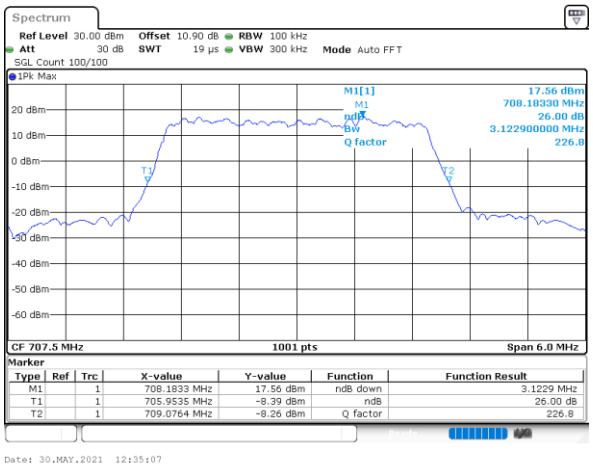
Middle Channel / 1.4MHz / QPSK



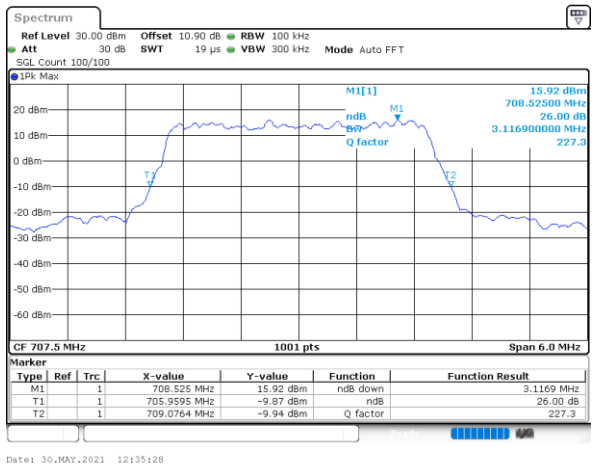
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

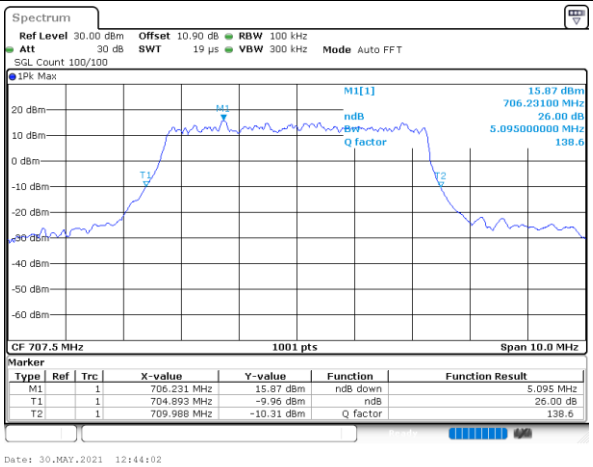


Middle Channel / 3MHz / 16QAM

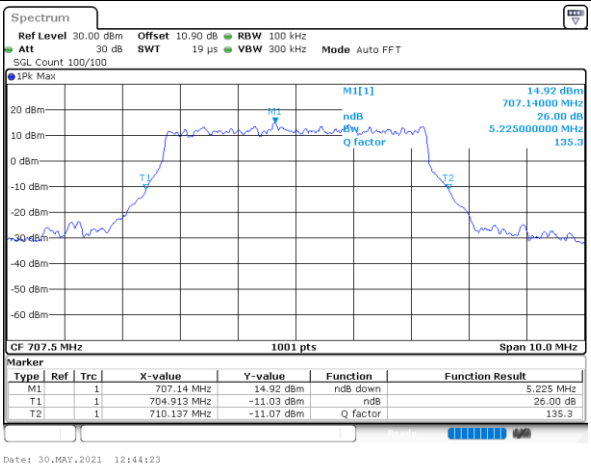


LTE Band 12

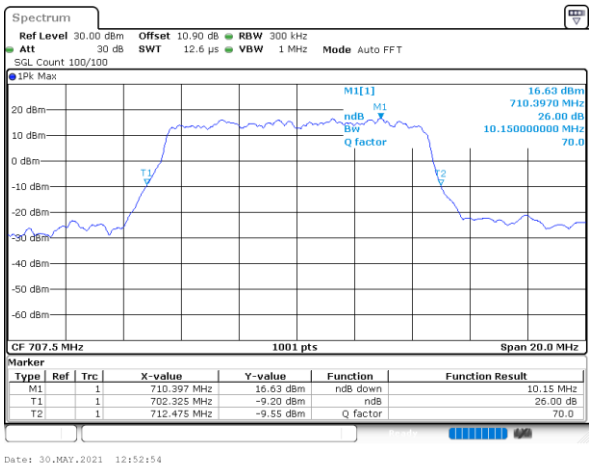
Middle Channel / 5MHz / QPSK



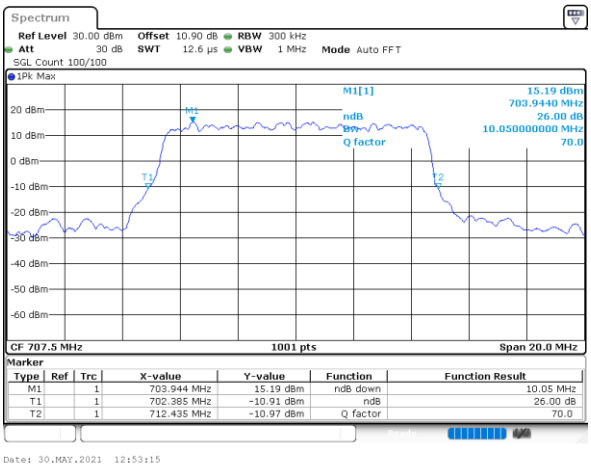
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

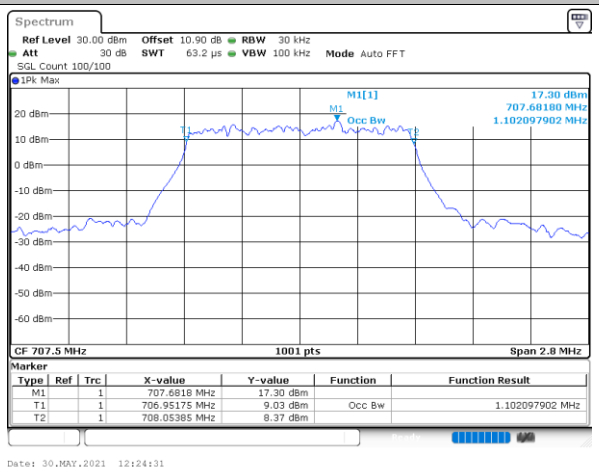


Occupied Bandwidth

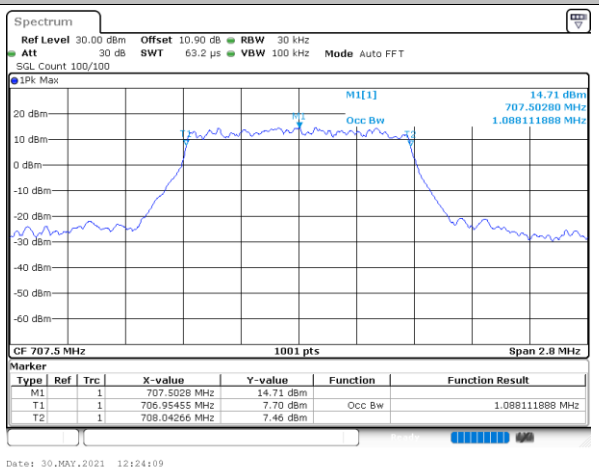
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.09	2.72	2.70	4.55	4.51	9.03	8.97	-	-	-	-

LTE Band 12

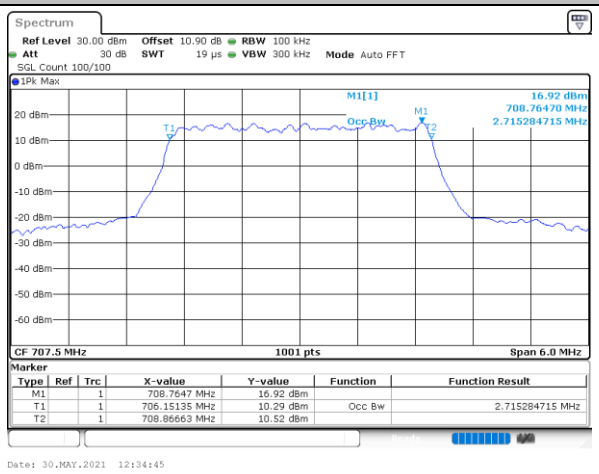
Middle Channel / 1.4MHz / QPSK



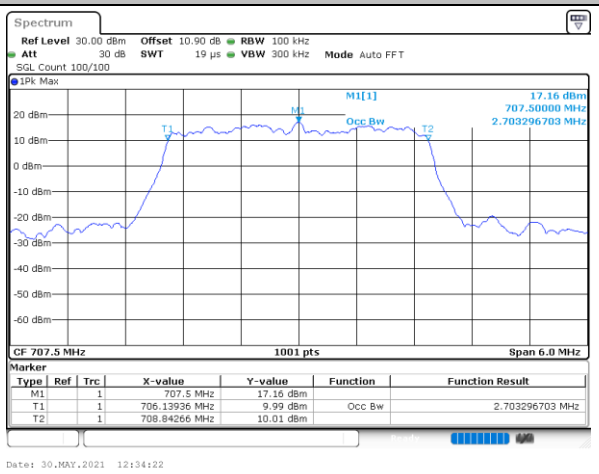
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

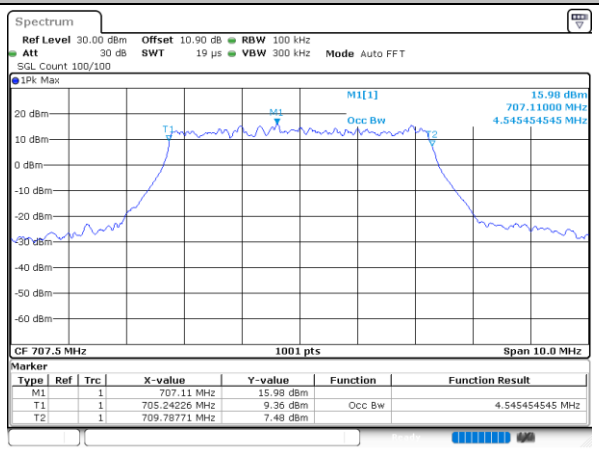


Middle Channel / 3MHz / 16QAM

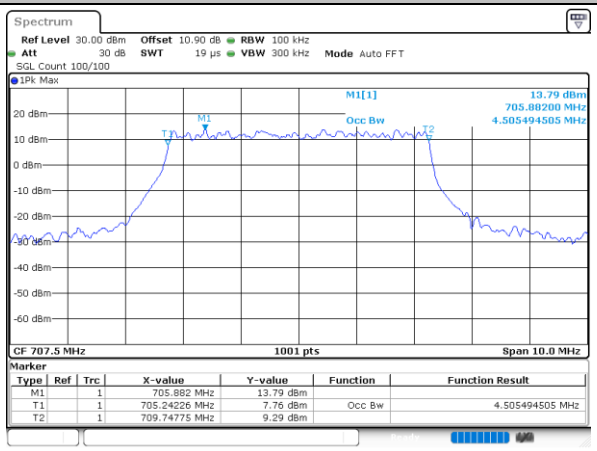


LTE Band 12

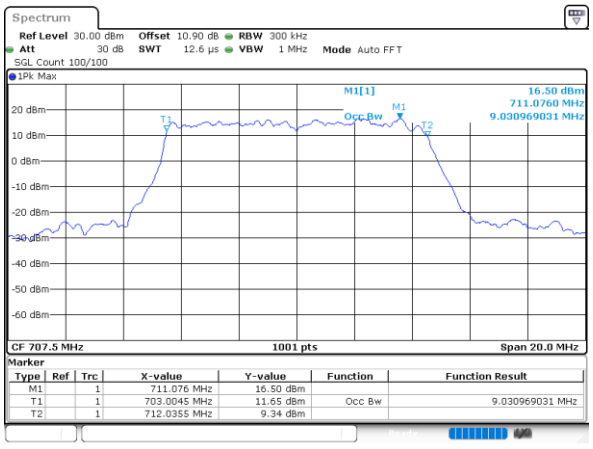
Middle Channel / 5MHz / QPSK



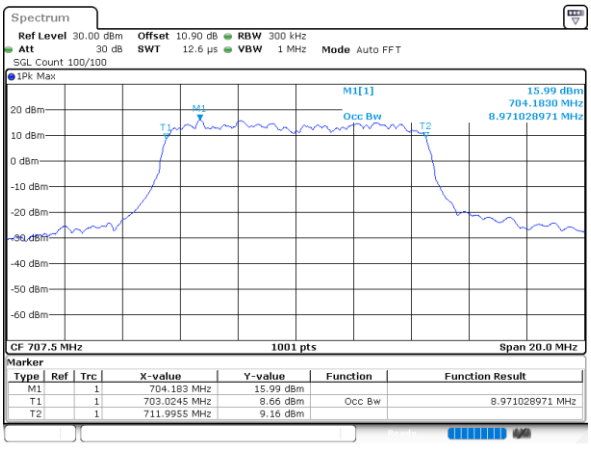
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



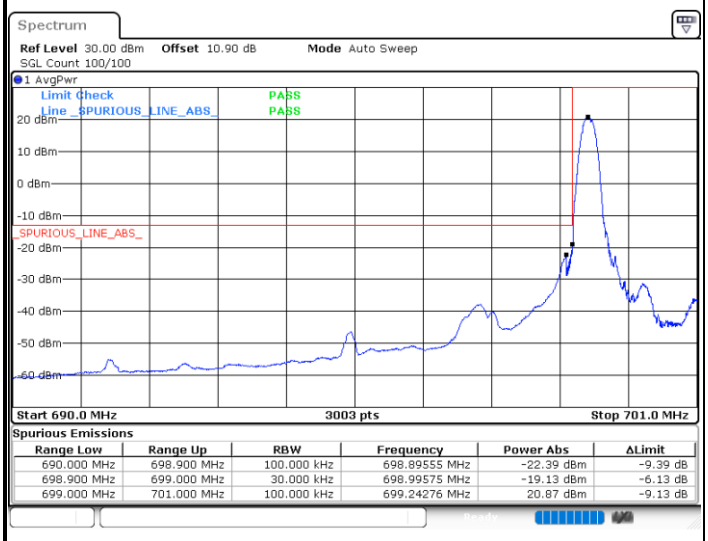
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

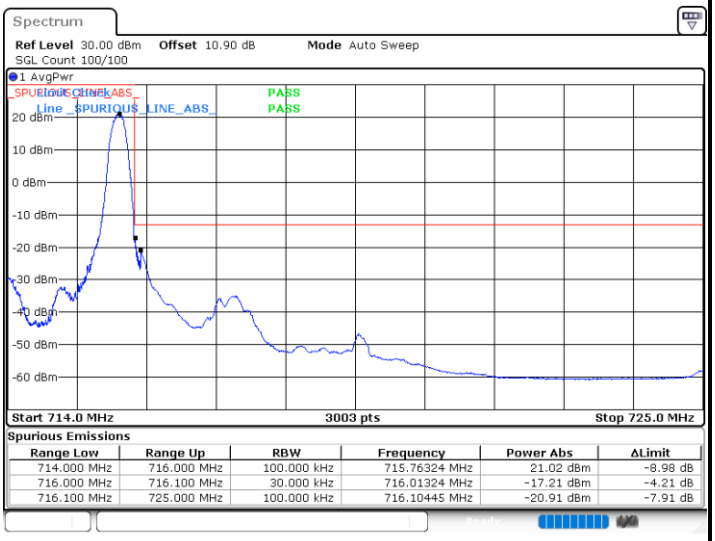


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-22.39 dBm	-9.39 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99575 MHz	-19.13 dBm	-6.13 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.24276 MHz	20.87 dBm	-9.13 dB

Date: 30.MAY.2021 12:23:11

Highest Band Edge / 1RB

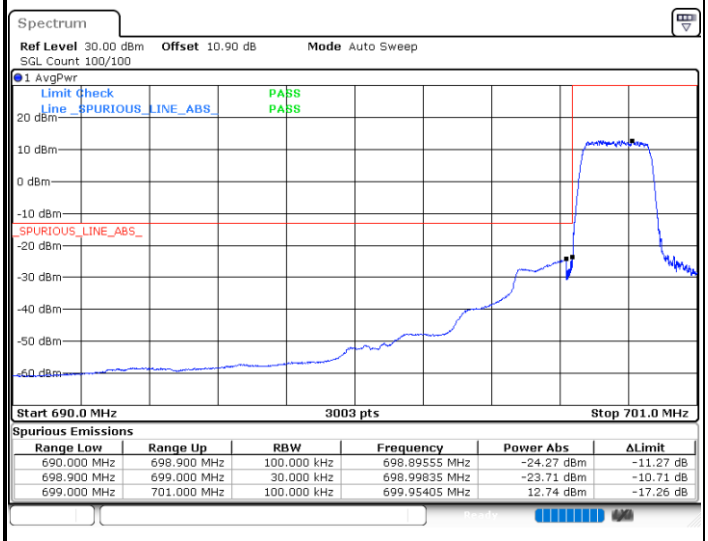


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.76324 MHz	21.02 dBm	-8.98 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01324 MHz	-17.21 dBm	-4.21 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-20.91 dBm	-7.91 dB

Date: 30.MAY.2021 12:28:34

Lowest Band Edge / Full RB

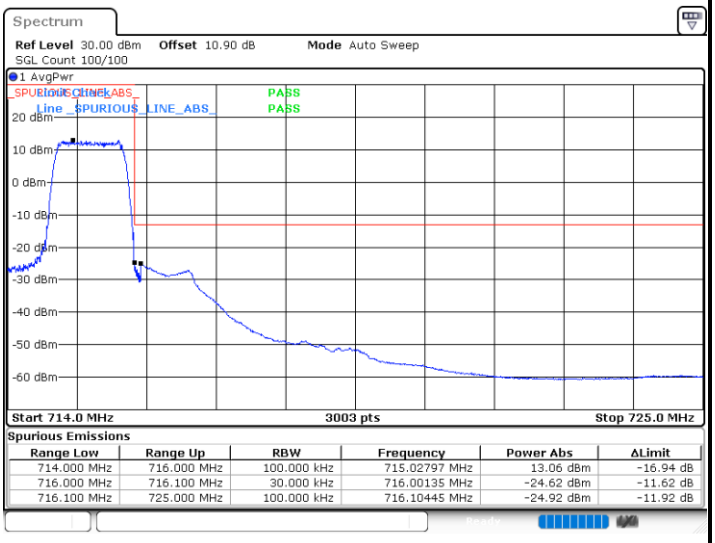


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.27 dBm	-11.27 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99835 MHz	-23.71 dBm	-10.71 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.95405 MHz	12.74 dBm	-17.26 dB

Date: 30.MAY.2021 12:21:06

Highest Band Edge / Full RB



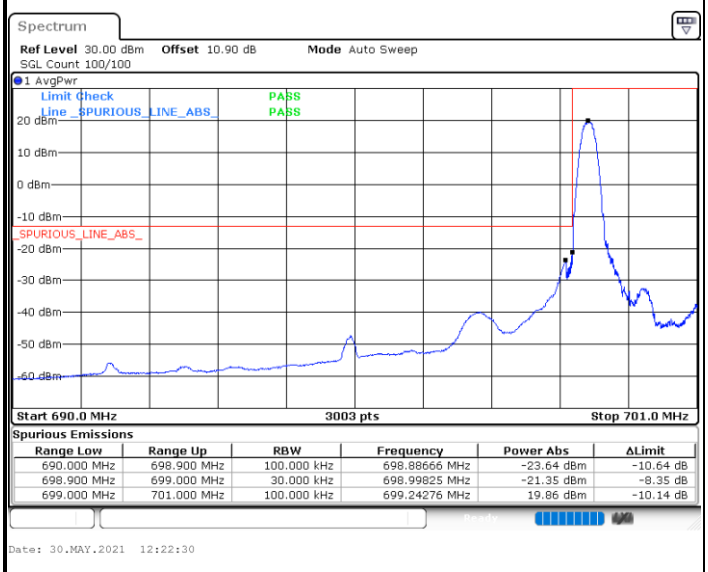
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.02797 MHz	13.06 dBm	-16.94 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00135 MHz	-24.62 dBm	-11.62 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-24.92 dBm	-11.92 dB

Date: 30.MAY.2021 12:26:31

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

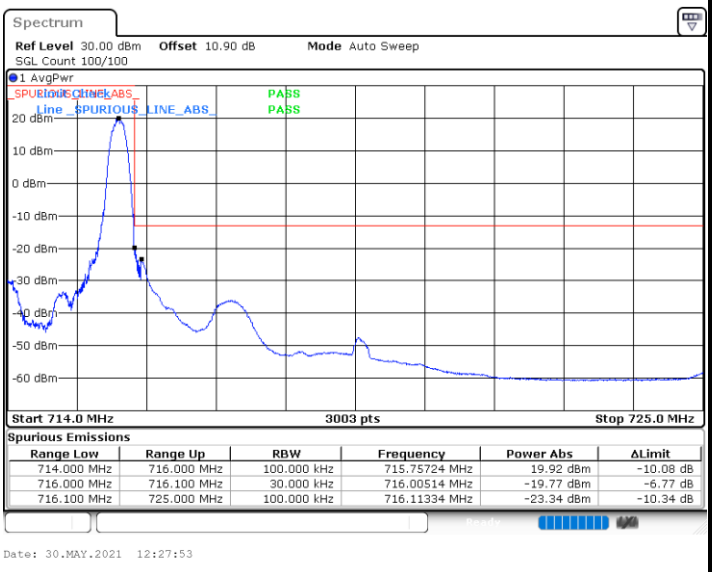


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-23.64 dBm	-10.64 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99825 MHz	-21.35 dBm	-8.35 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.24276 MHz	19.86 dBm	-10.14 dB

Date: 30.MAY.2021 12:22:30

Highest Band Edge / 1 RB

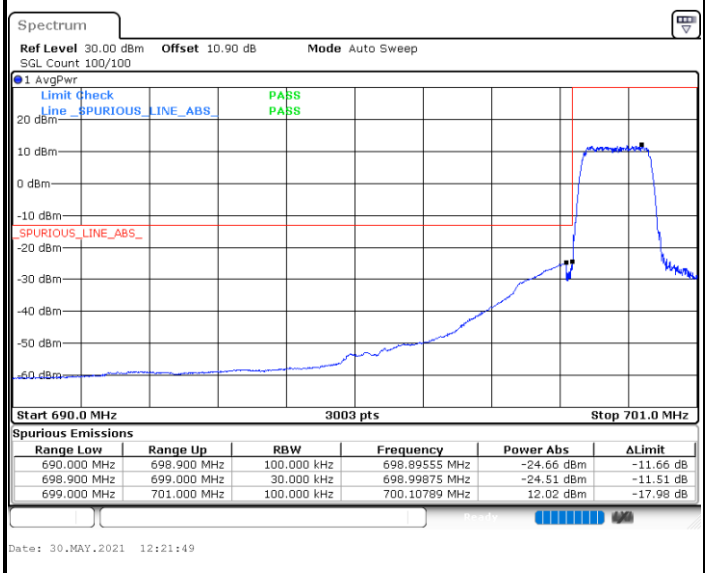


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.75724 MHz	19.92 dBm	-10.08 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00514 MHz	-19.77 dBm	-6.77 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-23.34 dBm	-10.34 dB

Date: 30.MAY.2021 12:27:53

Lowest Band Edge / Full RB

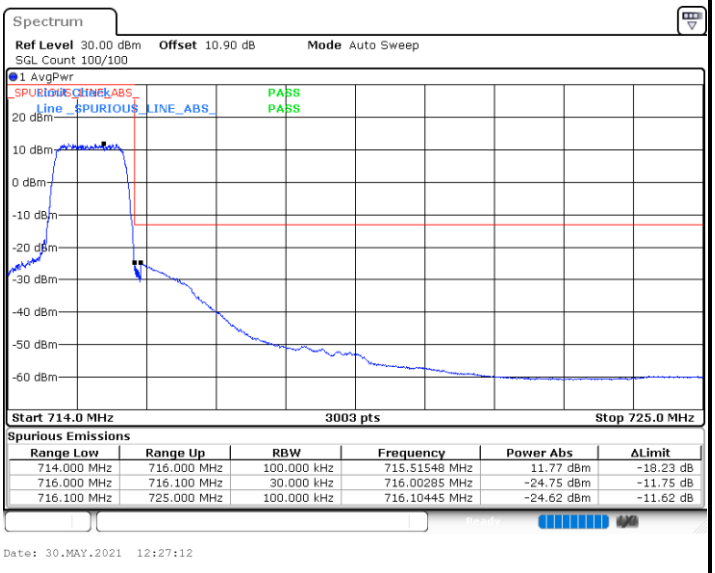


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.66 dBm	-11.66 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99875 MHz	-24.51 dBm	-11.51 dB
699.000 MHz	701.000 MHz	100.000 kHz	700.10789 MHz	12.02 dBm	-17.98 dB

Date: 30.MAY.2021 12:21:49

Highest Band Edge / Full RB



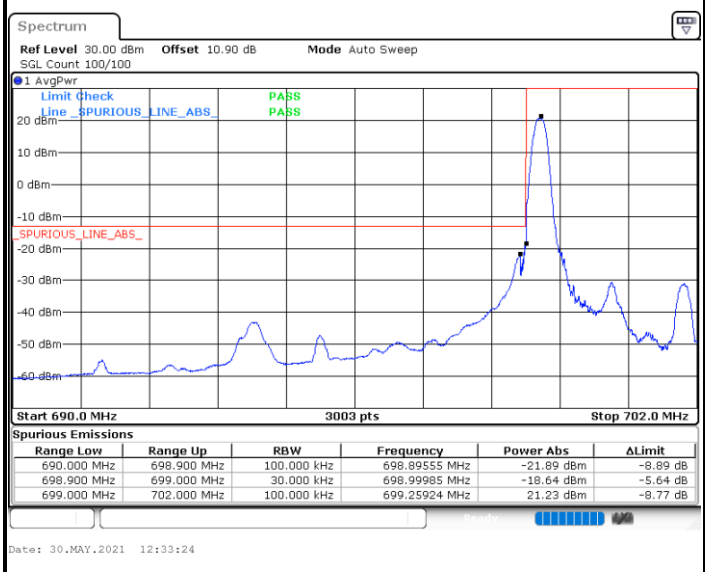
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.51548 MHz	11.77 dBm	-18.23 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00285 MHz	-24.75 dBm	-11.75 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-24.62 dBm	-11.62 dB

Date: 30.MAY.2021 12:27:12

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

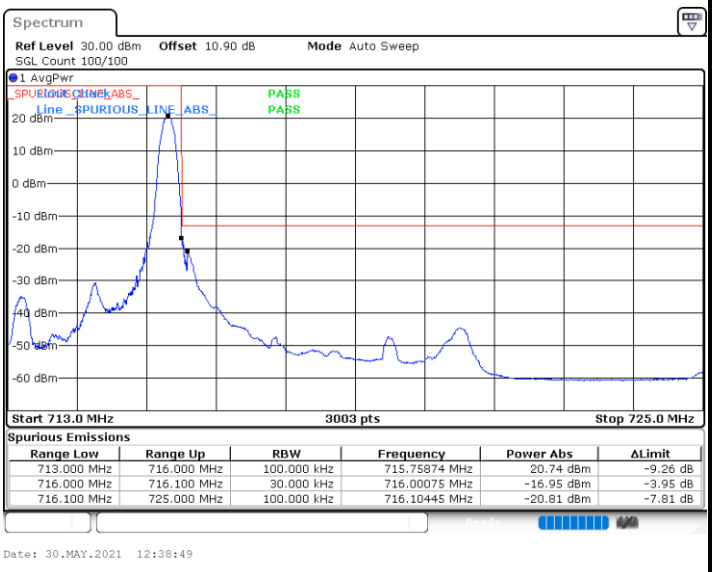


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-21.89 dBm	-8.89 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99985 MHz	-18.64 dBm	-5.64 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.25924 MHz	21.23 dBm	-8.77 dB

Date: 30.MAY.2021 12:33:24

Highest Band Edge / 1 RB

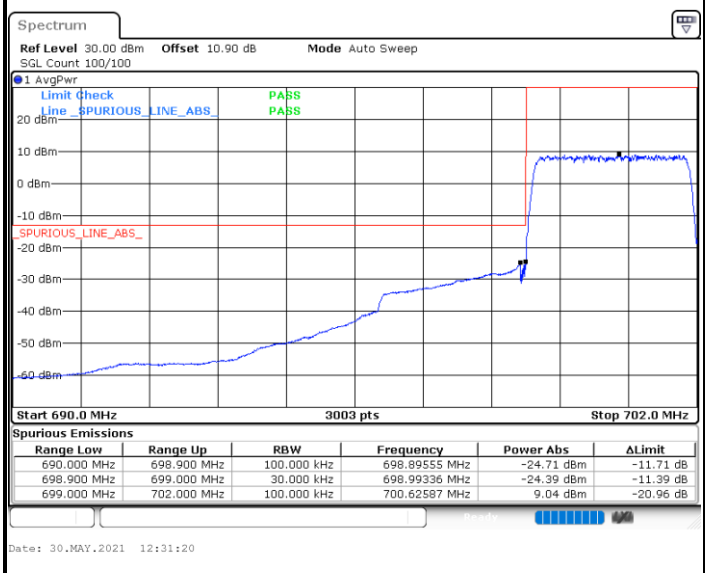


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.75874 MHz	20.74 dBm	-9.26 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00075 MHz	-16.95 dBm	-3.95 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-20.81 dBm	-7.81 dB

Date: 30.MAY.2021 12:38:49

Lowest Band Edge / Full RB

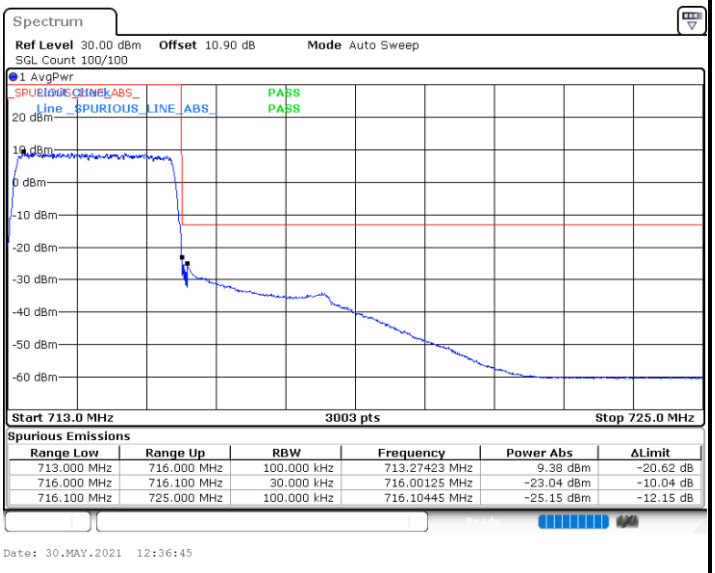


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.71 dBm	-11.71 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99336 MHz	-24.39 dBm	-11.39 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.62587 MHz	9.04 dBm	-20.96 dB

Date: 30.MAY.2021 12:31:20

Highest Band Edge / Full RB



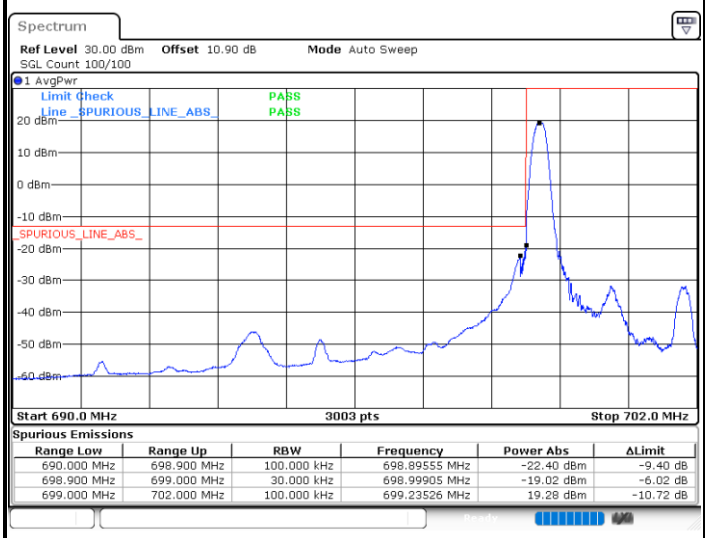
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.27423 MHz	9.38 dBm	-20.62 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00125 MHz	-23.04 dBm	-10.04 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-25.15 dBm	-12.15 dB

Date: 30.MAY.2021 12:36:45

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

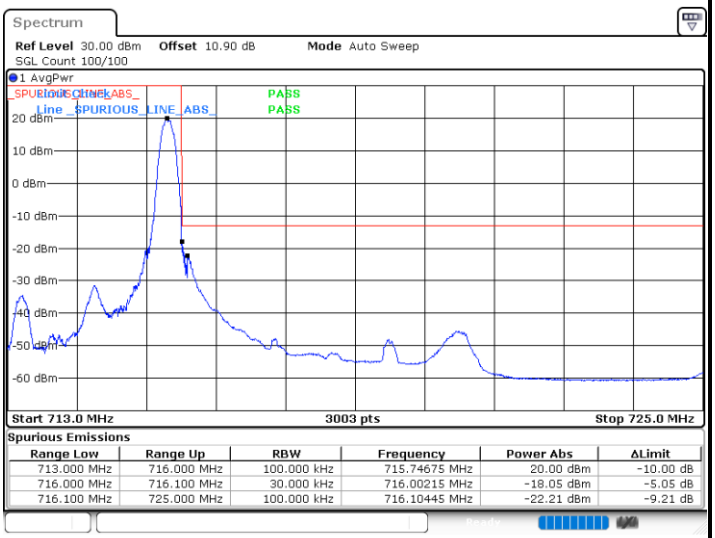


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-22.40 dBm	-9.40 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99905 MHz	-19.02 dBm	-6.02 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.23526 MHz	19.28 dBm	-10.72 dB

Date: 30.MAY.2021 12:32:43

Highest Band Edge / 1 RB

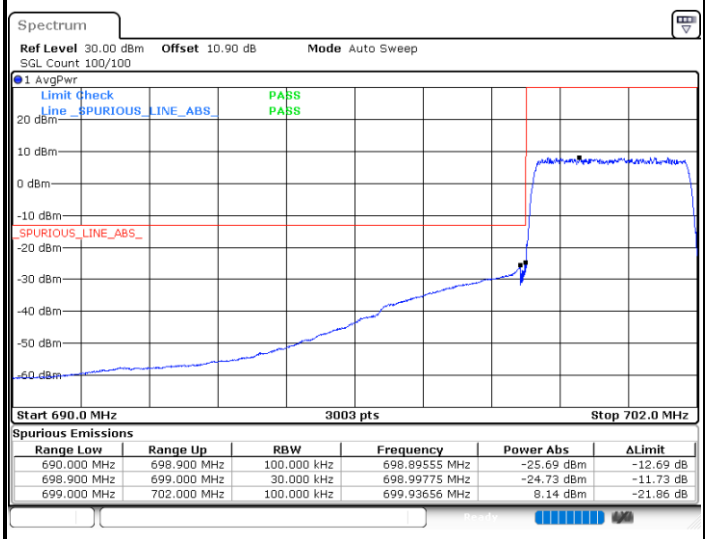


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.74675 MHz	20.00 dBm	-10.00 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00215 MHz	-18.05 dBm	-5.05 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-22.21 dBm	-9.21 dB

Date: 30.MAY.2021 12:38:07

Lowest Band Edge / Full RB

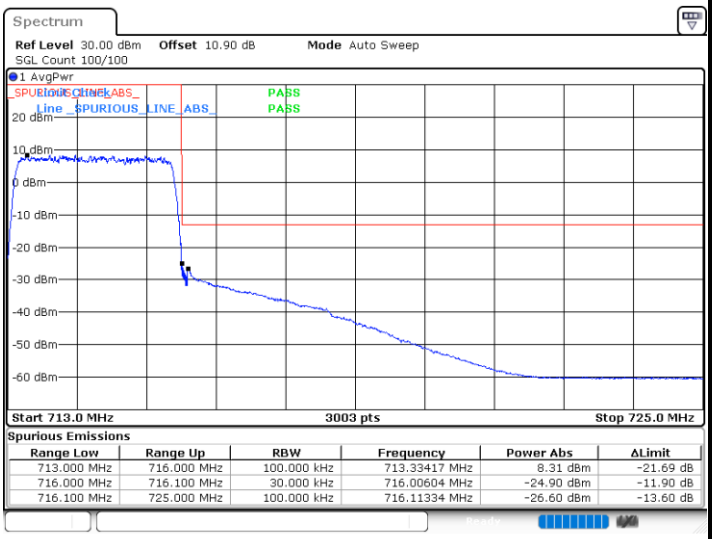


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-25.69 dBm	-12.69 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-24.73 dBm	-11.73 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.93656 MHz	8.14 dBm	-21.86 dB

Date: 30.MAY.2021 12:32:02

Highest Band Edge / Full RB



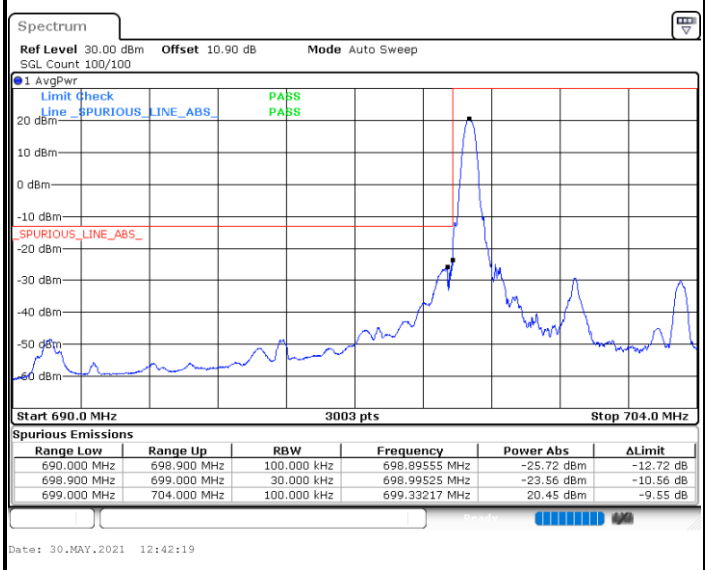
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.33417 MHz	8.31 dBm	-21.69 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00604 MHz	-24.90 dBm	-11.90 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-26.60 dBm	-13.60 dB

Date: 30.MAY.2021 12:37:26

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

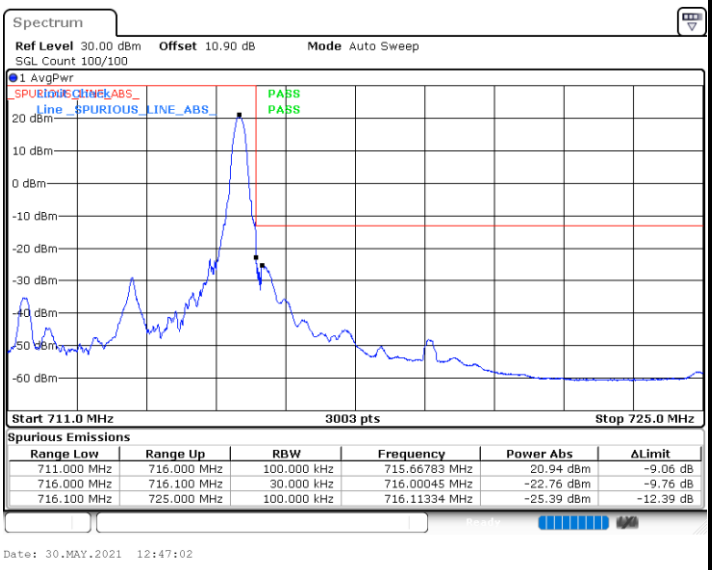


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-25.72 dBm	-12.72 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99525 MHz	-23.56 dBm	-10.56 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.33217 MHz	20.45 dBm	-9.55 dB

Date: 30.MAY.2021 12:42:19

Highest Band Edge / 1 RB

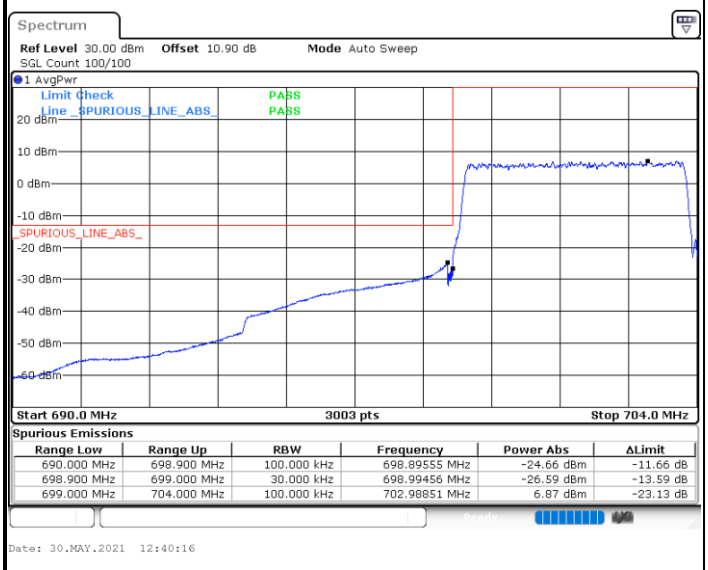


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66783 MHz	20.94 dBm	-9.06 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00045 MHz	-22.76 dBm	-9.76 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-25.39 dBm	-12.39 dB

Date: 30.MAY.2021 12:47:02

Lowest Band Edge / Full RB

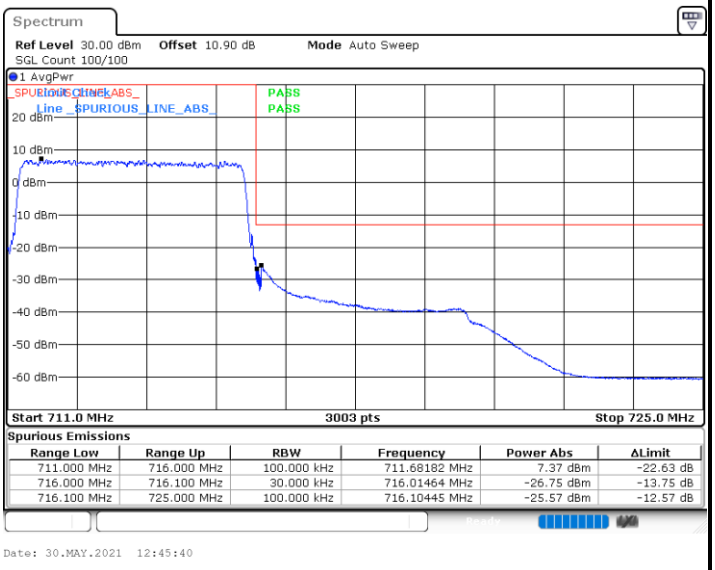


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-24.66 dBm	-11.66 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99456 MHz	-26.59 dBm	-13.59 dB
699.000 MHz	704.000 MHz	100.000 kHz	702.98851 MHz	6.87 dBm	-23.13 dB

Date: 30.MAY.2021 12:40:16

Highest Band Edge / Full RB



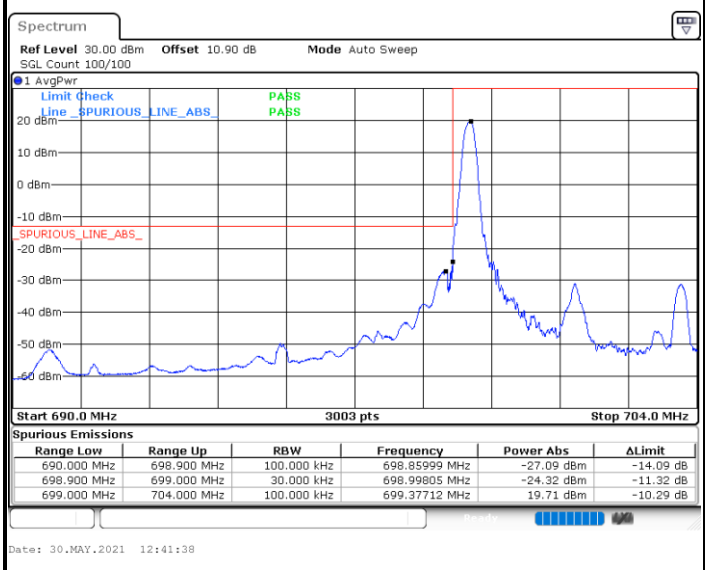
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.68182 MHz	7.37 dBm	-22.63 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01464 MHz	-26.75 dBm	-13.75 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-25.57 dBm	-12.57 dB

Date: 30.MAY.2021 12:45:40

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

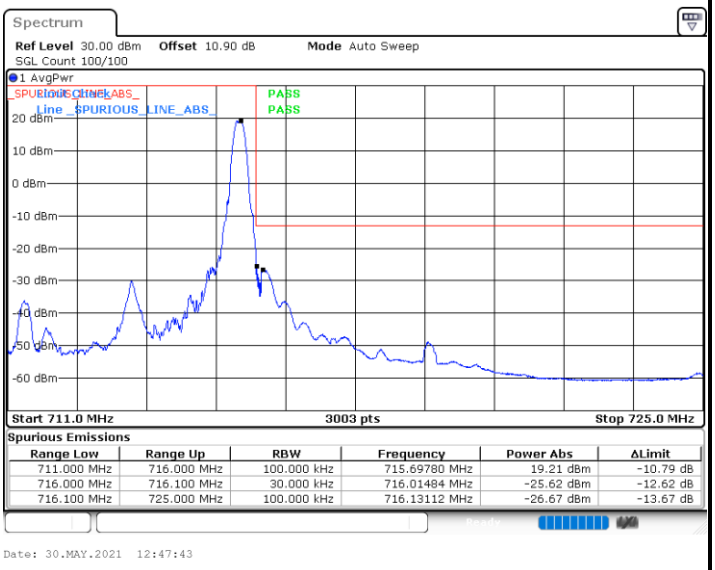


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-27.09 dBm	-14.09 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99805 MHz	-24.32 dBm	-11.32 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.37712 MHz	19.71 dBm	-10.29 dB

Date: 30.MAY.2021 12:41:38

Highest Band Edge / 1 RB

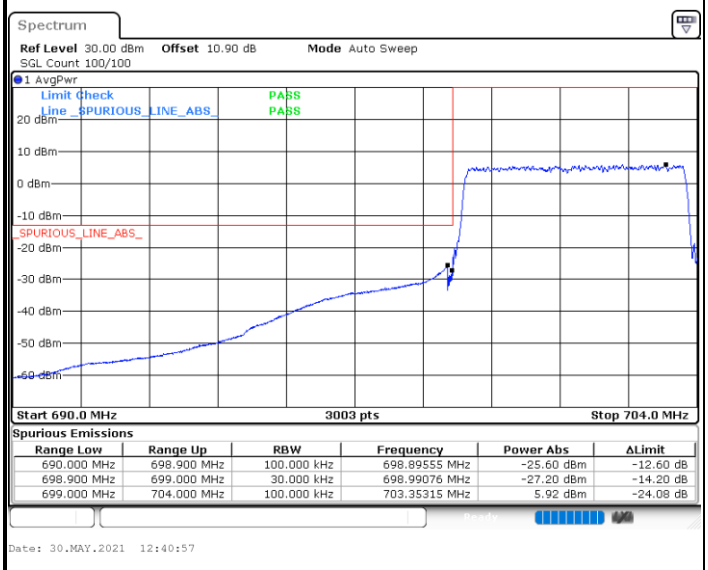


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.69780 MHz	19.21 dBm	-10.79 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01484 MHz	-25.62 dBm	-12.62 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.13112 MHz	-26.67 dBm	-13.67 dB

Date: 30.MAY.2021 12:47:43

Lowest Band Edge / Full RB

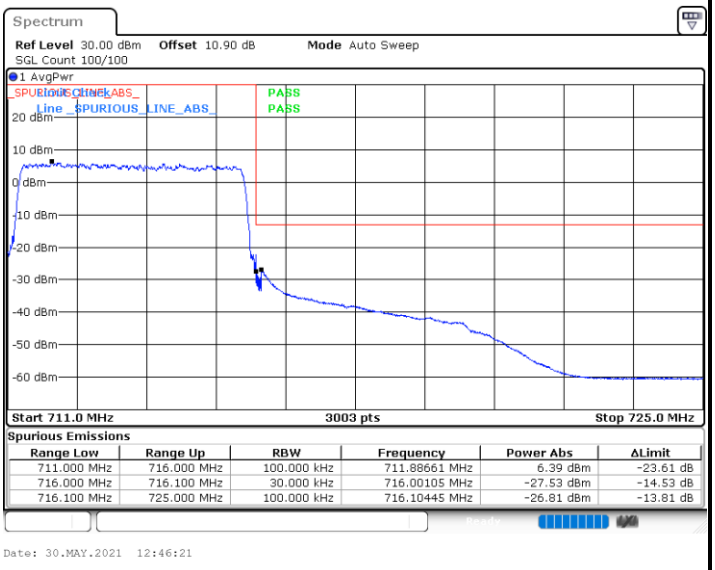


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-25.60 dBm	-12.60 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99076 MHz	-27.20 dBm	-14.20 dB
699.000 MHz	704.000 MHz	100.000 kHz	703.35315 MHz	5.92 dBm	-24.08 dB

Date: 30.MAY.2021 12:40:57

Highest Band Edge / Full RB



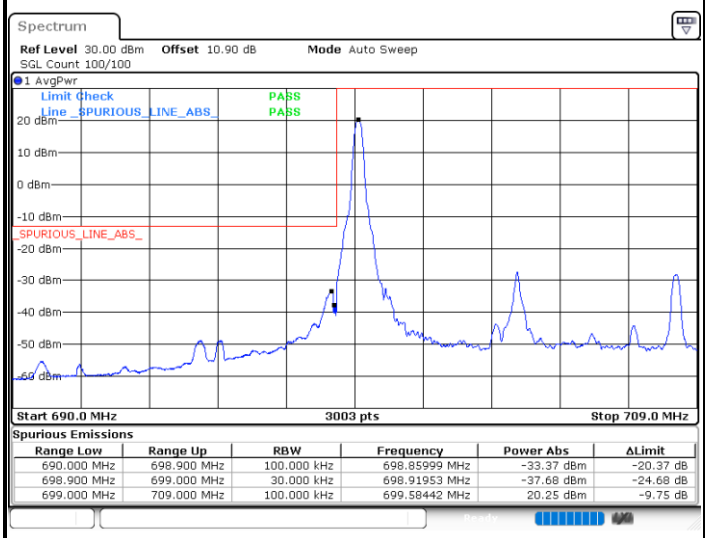
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.88661 MHz	6.39 dBm	-23.61 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-27.53 dBm	-14.53 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-26.81 dBm	-13.81 dB

Date: 30.MAY.2021 12:46:21

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

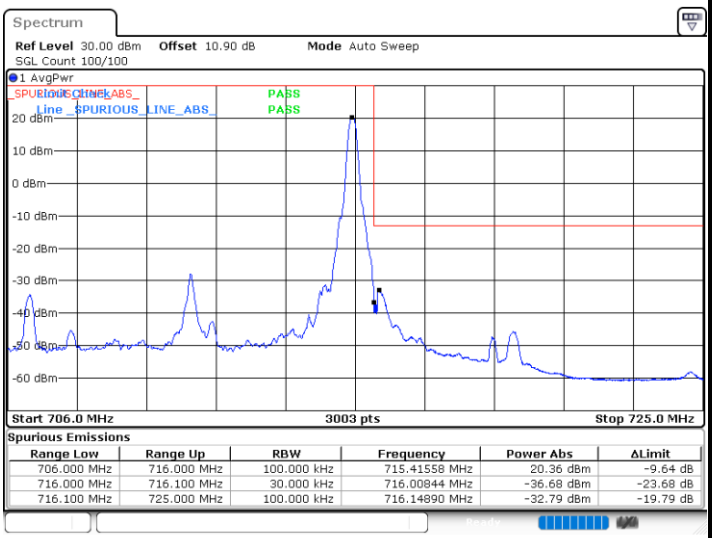


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-33.37 dBm	-20.37 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.91953 MHz	-37.68 dBm	-24.68 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.58442 MHz	20.25 dBm	-9.75 dB

Date: 30.MAY.2021 12:51:10

Highest Band Edge / 1 RB

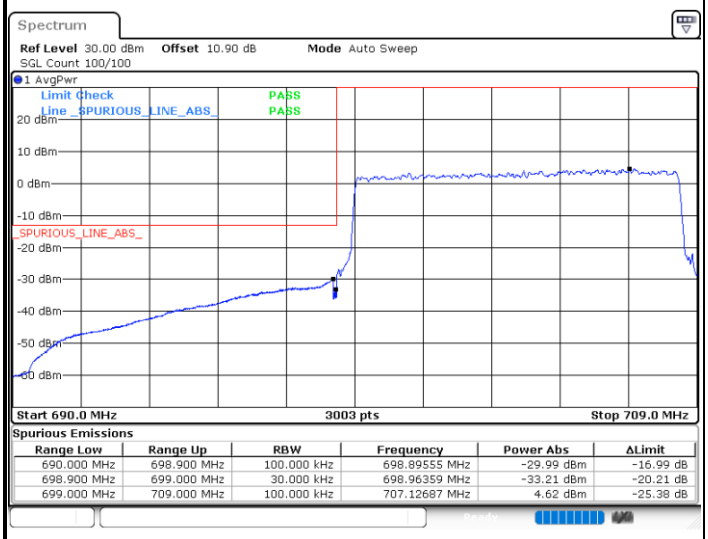


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.41558 MHz	20.36 dBm	-9.64 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00844 MHz	-36.68 dBm	-23.68 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14890 MHz	-32.79 dBm	-19.79 dB

Date: 30.MAY.2021 12:56:37

Lowest Band Edge / Full RB

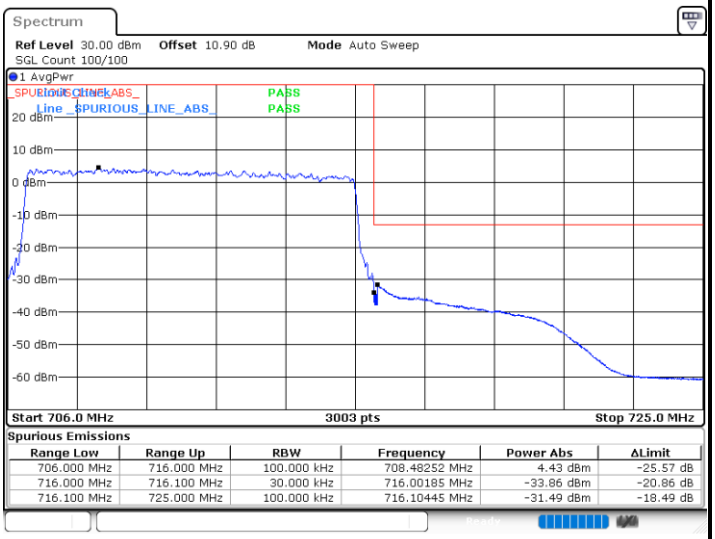


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.99 dBm	-16.99 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.96359 MHz	-33.21 dBm	-20.21 dB
699.000 MHz	709.000 MHz	100.000 kHz	707.12687 MHz	4.62 dBm	-25.38 dB

Date: 30.MAY.2021 12:49:05

Highest Band Edge / Full RB



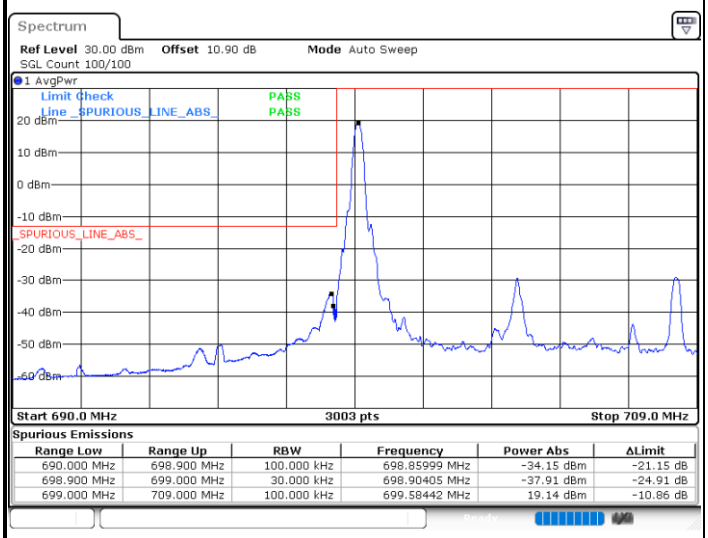
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	708.48252 MHz	4.43 dBm	-25.57 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-33.86 dBm	-20.86 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.49 dBm	-18.49 dB

Date: 30.MAY.2021 12:54:32

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

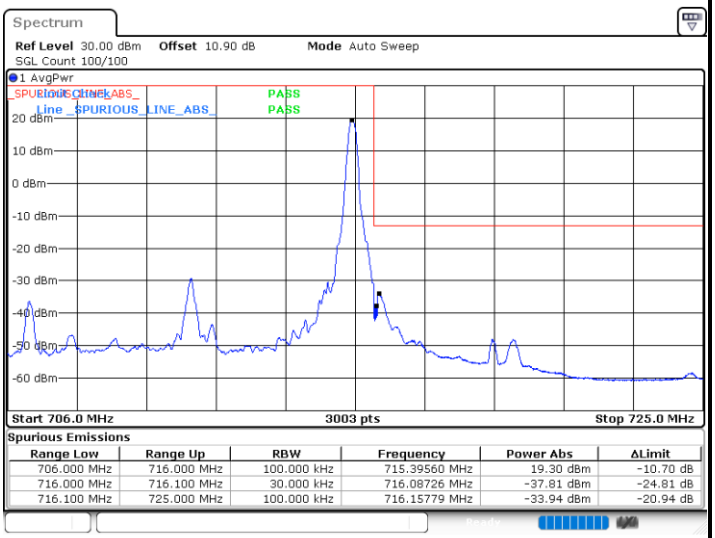


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.85999 MHz	-34.15 dBm	-21.15 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.90405 MHz	-37.91 dBm	-24.91 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.58442 MHz	19.14 dBm	-10.86 dB

Date: 30.MAY.2021 12:50:28

Highest Band Edge / 1 RB

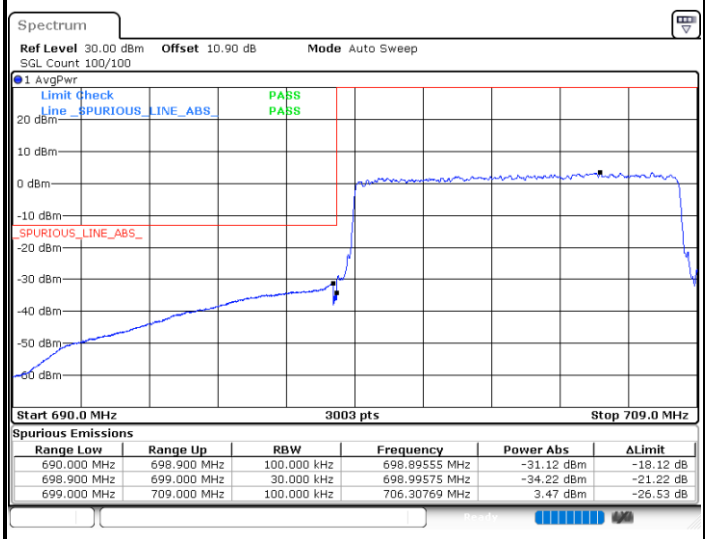


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.39560 MHz	19.30 dBm	-10.70 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.08726 MHz	-37.81 dBm	-24.81 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.15779 MHz	-33.94 dBm	-20.94 dB

Date: 30.MAY.2021 12:55:56

Lowest Band Edge / Full RB

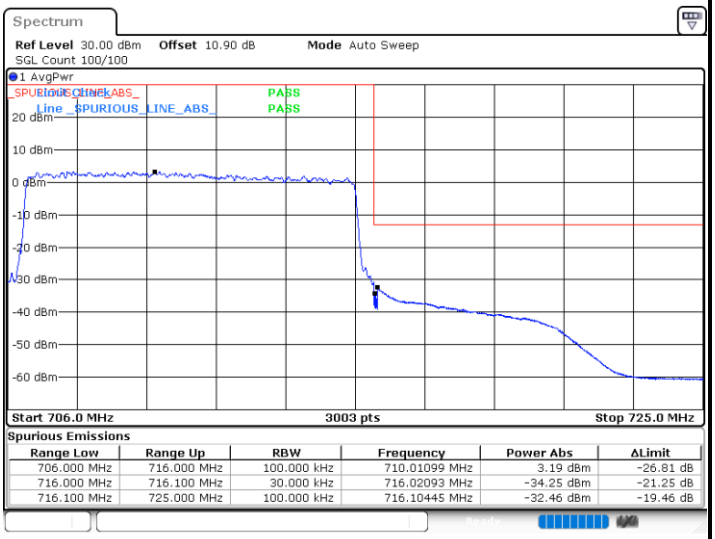


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.12 dBm	-18.12 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99575 MHz	-34.22 dBm	-21.22 dB
699.000 MHz	709.000 MHz	100.000 kHz	706.30769 MHz	3.47 dBm	-26.53 dB

Date: 30.MAY.2021 12:49:47

Highest Band Edge / Full RB



Spurious Emissions

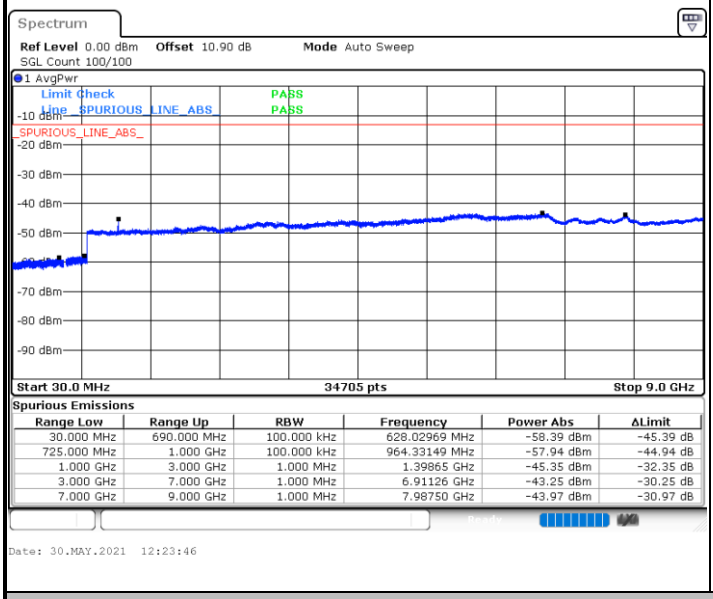
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	710.01099 MHz	3.19 dBm	-26.81 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02093 MHz	-34.25 dBm	-21.25 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.46 dBm	-19.46 dB

Date: 30.MAY.2021 12:55:15

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

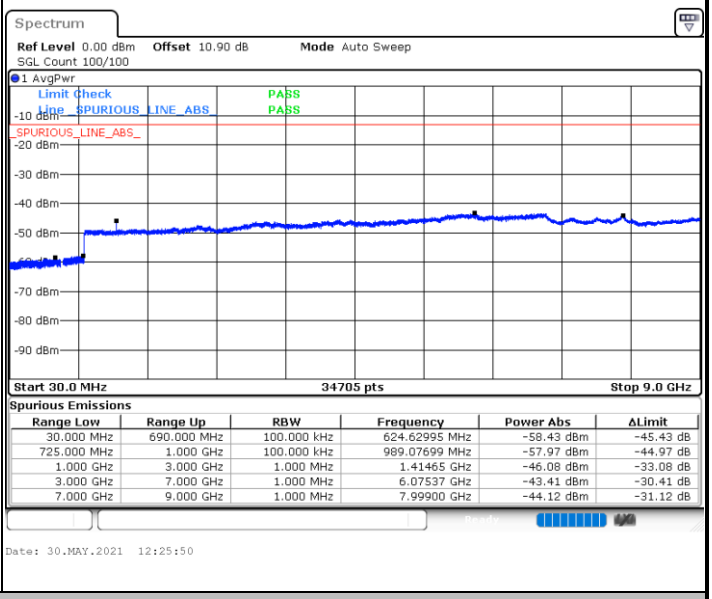


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	628.02969 MHz	-58.39 dBm	-45.39 dB
725.000 MHz	1.000 GHz	100.000 kHz	964.33149 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.35 dBm	-32.35 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91126 GHz	-43.25 dBm	-30.25 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.98750 GHz	-43.97 dBm	-30.97 dB

Date: 30.MAY.2021 12:23:46

Middle Channel / QPSK

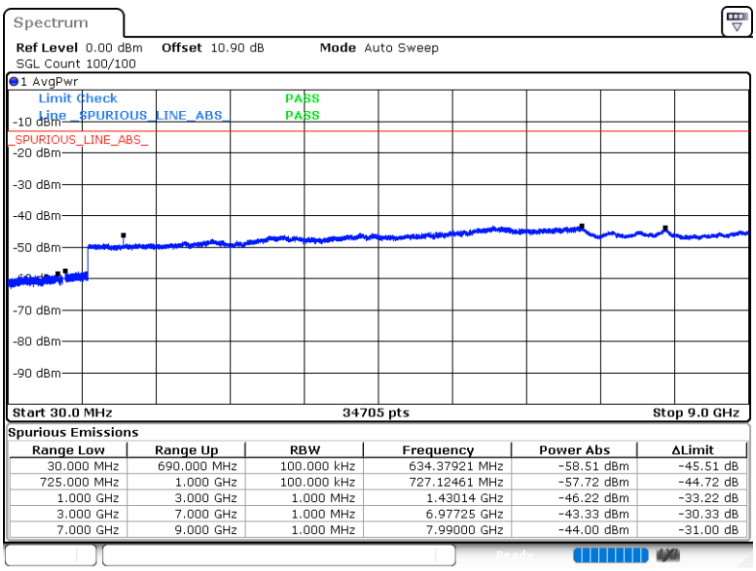


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	624.62995 MHz	-58.43 dBm	-45.43 dB
725.000 MHz	1.000 GHz	100.000 kHz	989.07699 MHz	-57.97 dBm	-44.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-46.08 dBm	-33.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.07537 GHz	-43.41 dBm	-30.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99900 GHz	-44.12 dBm	-31.12 dB

Date: 30.MAY.2021 12:25:50

Highest Channel / QPSK



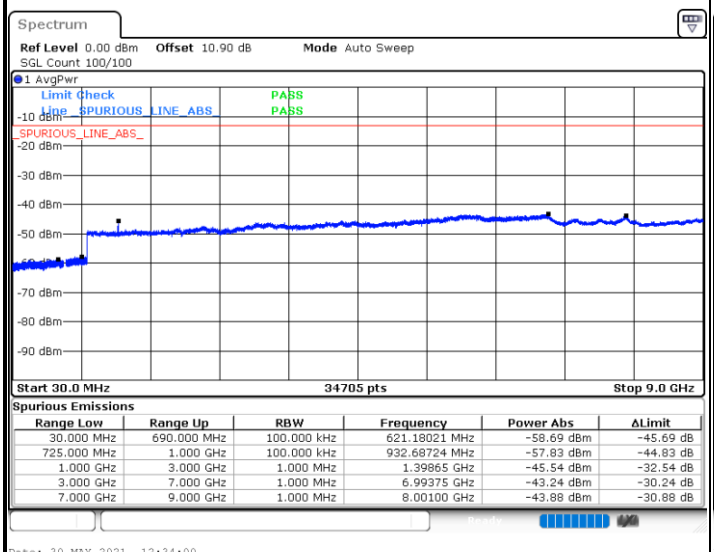
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	634.37921 MHz	-58.51 dBm	-45.51 dB
725.000 MHz	1.000 GHz	100.000 kHz	727.12461 MHz	-57.72 dBm	-44.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-46.22 dBm	-33.22 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97725 GHz	-43.33 dBm	-30.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99000 GHz	-44.00 dBm	-31.00 dB

Date: 30.MAY.2021 12:29:10

LTE Band 12 / 3MHz

Lowest Channel / QPSK

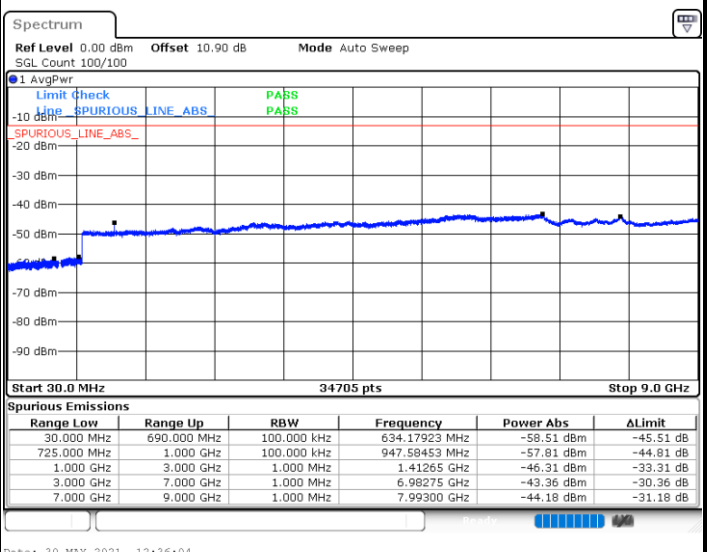


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.18021 MHz	-58.69 dBm	-45.69 dB
725.000 MHz	1.000 GHz	100.000 kHz	932.68724 MHz	-57.83 dBm	-44.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.54 dBm	-32.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99375 GHz	-43.24 dBm	-30.24 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00100 GHz	-43.88 dBm	-30.88 dB

Date: 30.MAY.2021 12:34:00

Middle Channel / QPSK

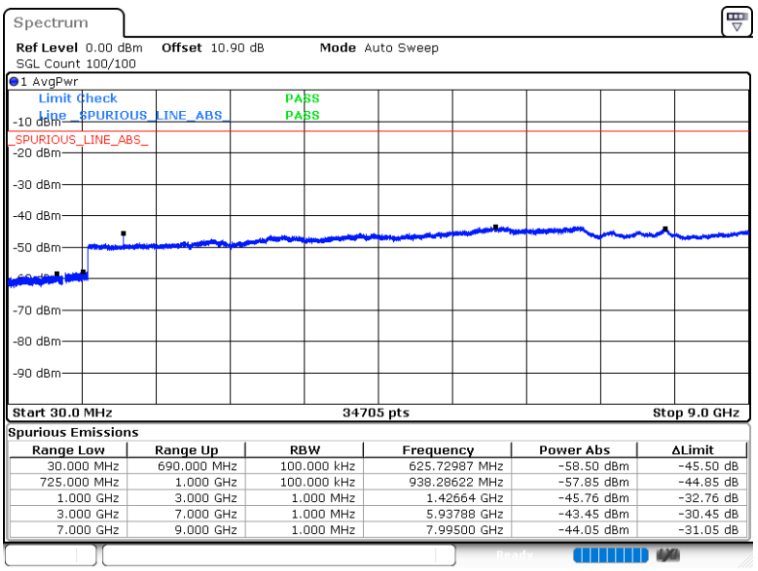


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	634.17923 MHz	-58.51 dBm	-45.51 dB
725.000 MHz	1.000 GHz	100.000 kHz	947.58453 MHz	-57.81 dBm	-44.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-46.31 dBm	-33.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98275 GHz	-43.36 dBm	-30.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99300 GHz	-44.18 dBm	-31.18 dB

Date: 30.MAY.2021 12:36:04

Highest Channel / QPSK



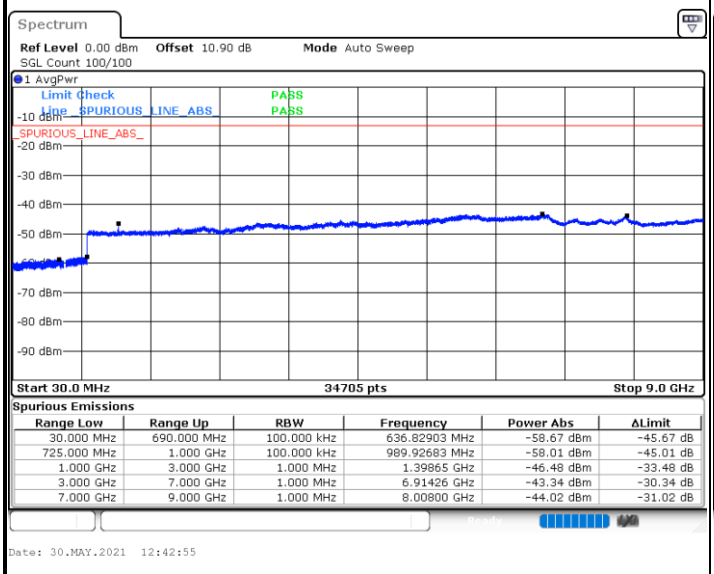
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	625.72987 MHz	-58.50 dBm	-45.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	938.28622 MHz	-57.85 dBm	-44.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.76 dBm	-32.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.93788 GHz	-43.45 dBm	-30.45 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99500 GHz	-44.05 dBm	-31.05 dB

Date: 30.MAY.2021 12:39:24

LTE Band 12 / 5MHz

Lowest Channel / QPSK

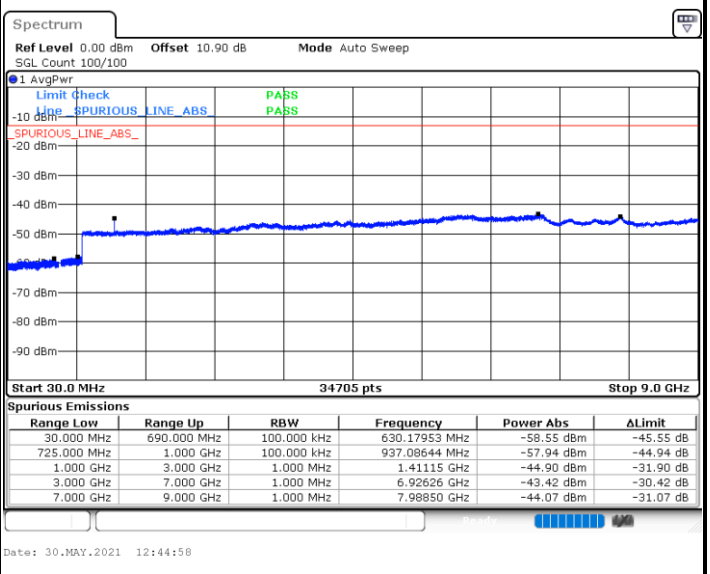


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	636.82903 MHz	-58.67 dBm	-45.67 dB
725.000 MHz	1.000 GHz	100.000 kHz	989.92683 MHz	-58.01 dBm	-45.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.48 dBm	-33.48 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91426 GHz	-43.34 dBm	-30.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00800 GHz	-44.02 dBm	-31.02 dB

Date: 30.MAY.2021 12:42:55

Middle Channel / QPSK

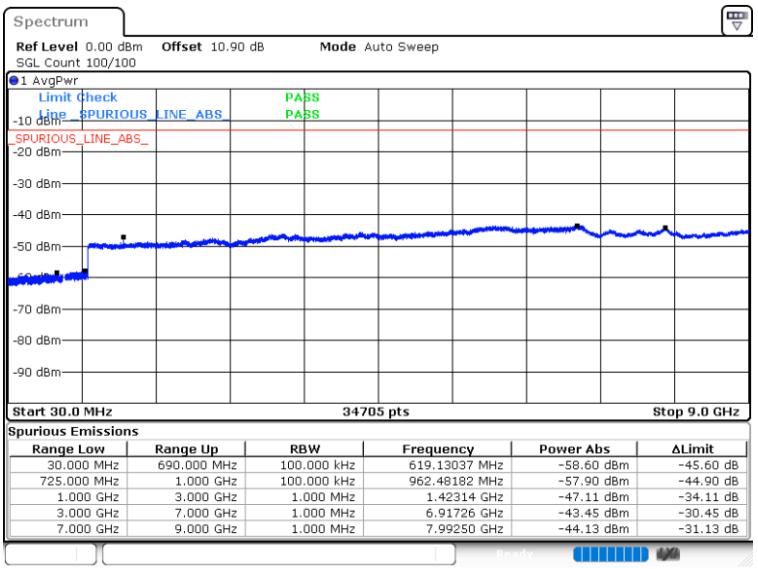


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	630.17953 MHz	-58.55 dBm	-45.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	937.08644 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-44.90 dBm	-31.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92626 GHz	-43.42 dBm	-30.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.98850 GHz	-44.07 dBm	-31.07 dB

Date: 30.MAY.2021 12:44:58

Highest Channel / QPSK



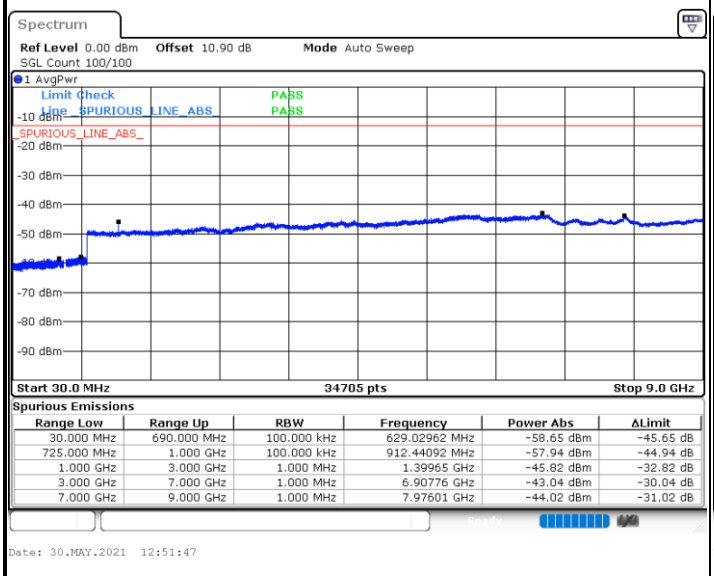
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	619.13037 MHz	-58.60 dBm	-45.60 dB
725.000 MHz	1.000 GHz	100.000 kHz	962.48182 MHz	-57.90 dBm	-44.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-47.11 dBm	-34.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91726 GHz	-43.45 dBm	-30.45 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99250 GHz	-44.13 dBm	-31.13 dB

Date: 30.MAY.2021 12:48:19

LTE Band 12 / 10MHz

Lowest Channel / QPSK

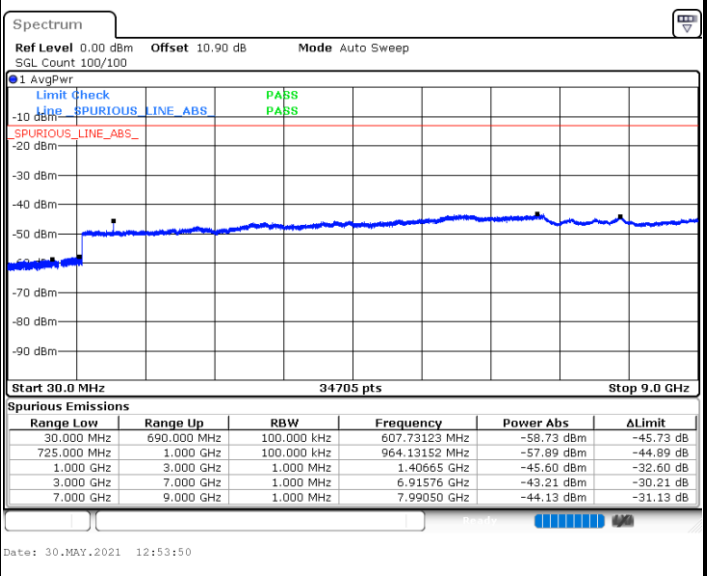


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	629.02962 MHz	-58.65 dBm	-45.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	912.44092 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-45.82 dBm	-32.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90776 GHz	-43.04 dBm	-30.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.97601 GHz	-44.02 dBm	-31.02 dB

Date: 30.MAY.2021 12:51:47

Middle Channel / QPSK

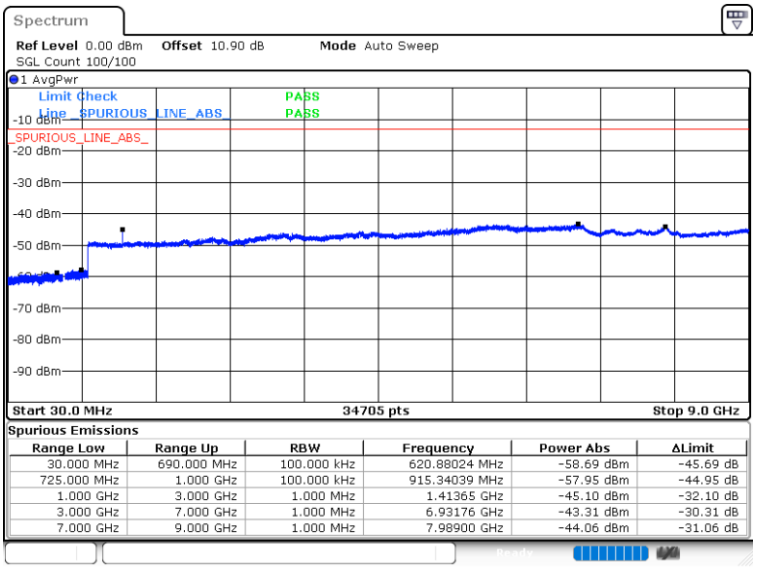


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	607.73123 MHz	-58.73 dBm	-45.73 dB
725.000 MHz	1.000 GHz	100.000 kHz	964.13152 MHz	-57.89 dBm	-44.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-45.60 dBm	-32.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91576 GHz	-43.21 dBm	-30.21 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99050 GHz	-44.13 dBm	-31.13 dB

Date: 30.MAY.2021 12:53:50

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	620.88024 MHz	-58.69 dBm	-45.69 dB
725.000 MHz	1.000 GHz	100.000 kHz	915.34039 MHz	-57.95 dBm	-44.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.10 dBm	-32.10 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93176 GHz	-43.31 dBm	-30.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.98900 GHz	-44.06 dBm	-31.06 dB

Date: 30.MAY.2021 12:57:13

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0123	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0055	

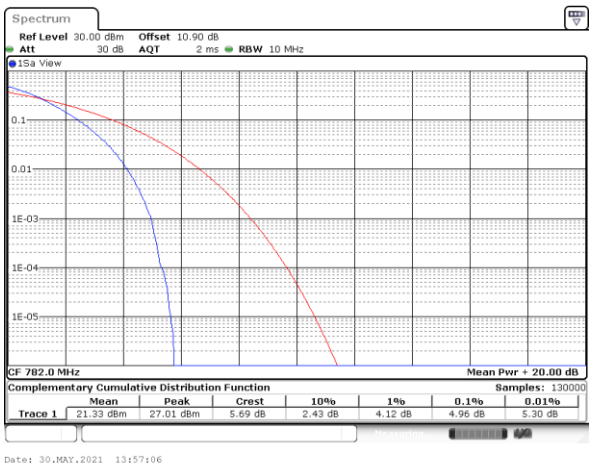
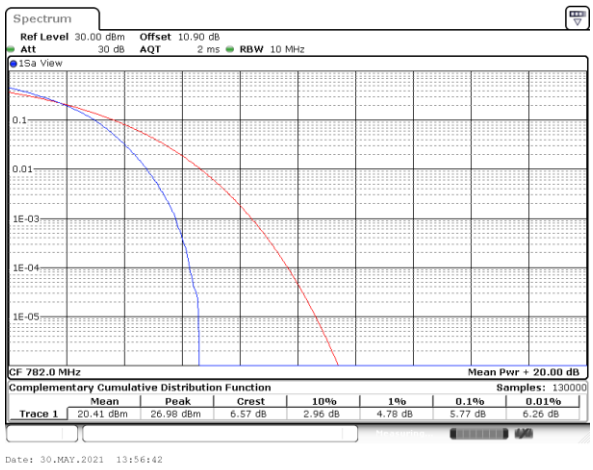
Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.77	-	-	PASS

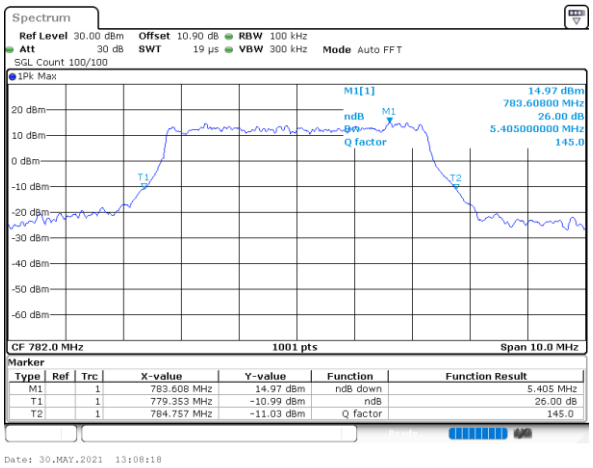
LTE Band 13 / 10MHz / QPSK	LTE Band 13 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

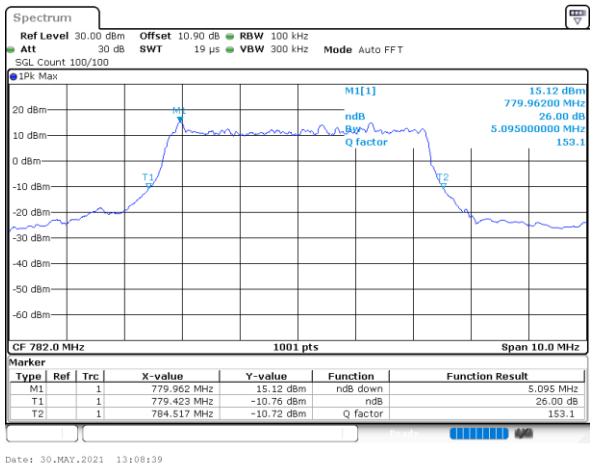
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.41	5.10	10.15	9.77	-	-	-	-

LTE Band 13

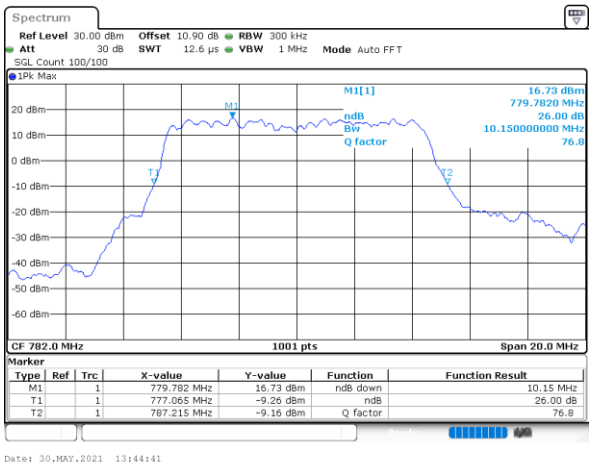
Middle Channel / 5MHz / QPSK



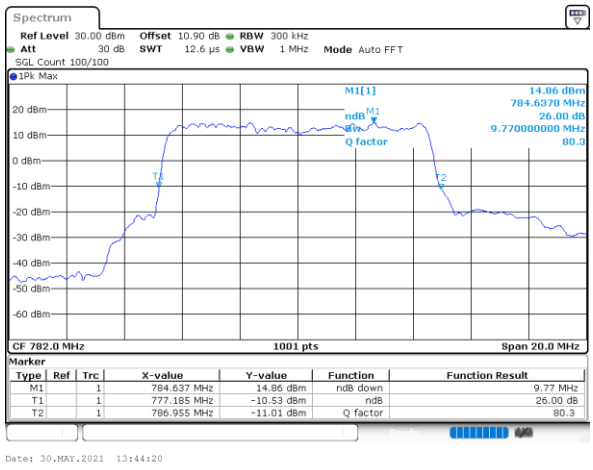
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

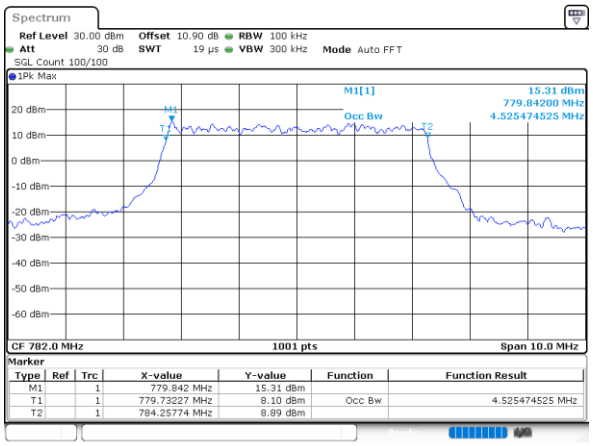


Occupied Bandwidth

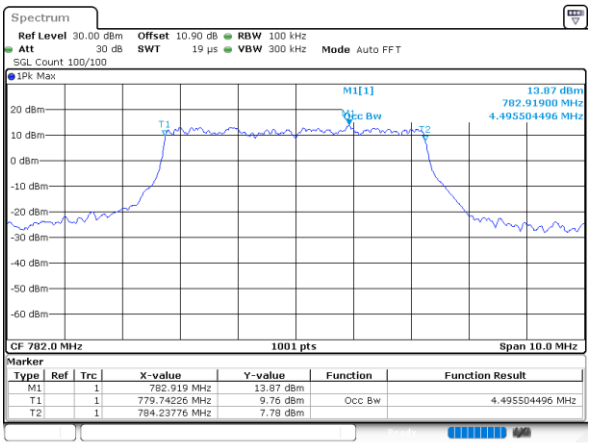
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.53	4.50	9.03	9.01	-	-	-	-

LTE Band 13

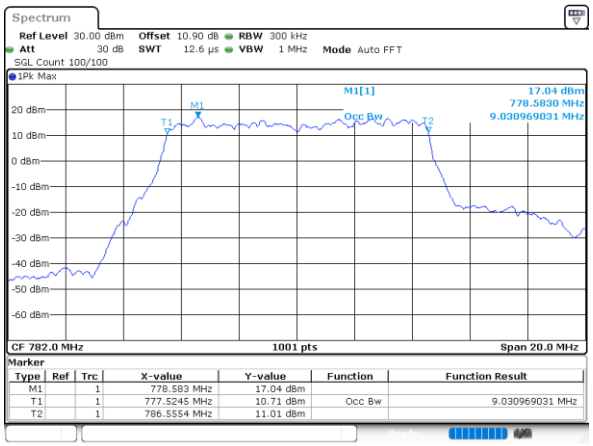
Middle Channel / 5MHz / QPSK



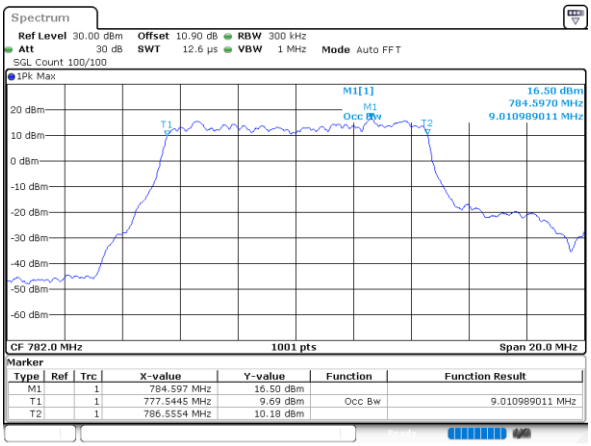
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



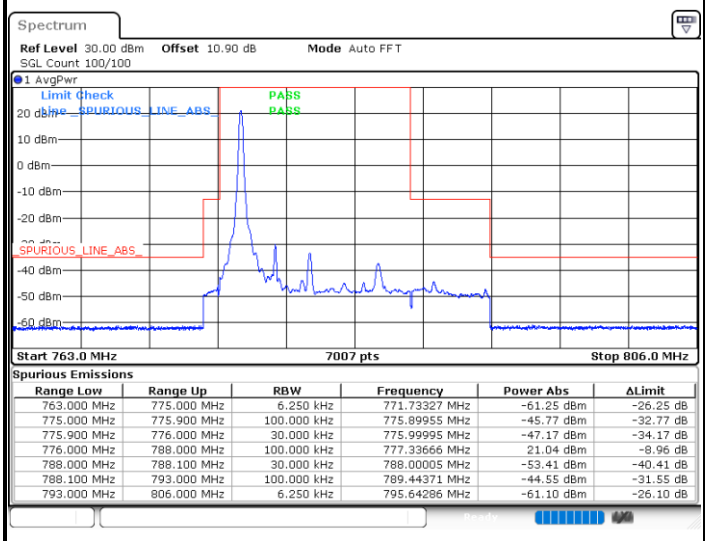
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

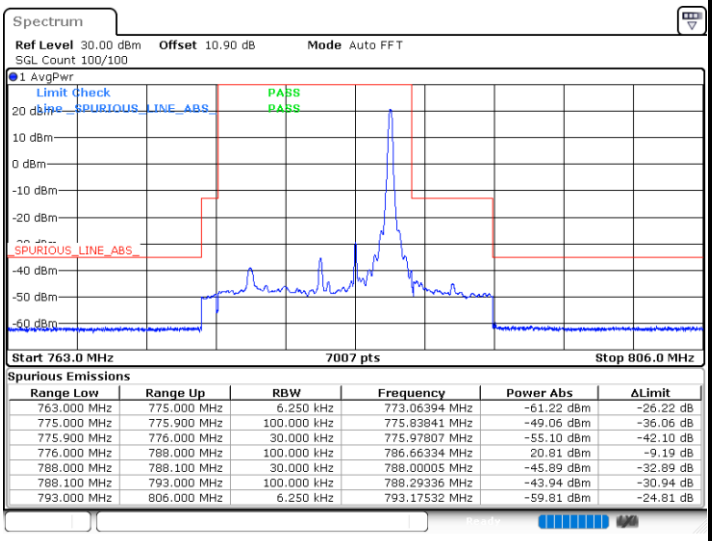


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	771.73327 MHz	-61.25 dBm	-26.25 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-45.77 dBm	-32.77 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-47.17 dBm	-34.17 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.33666 MHz	21.04 dBm	-8.96 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-53.41 dBm	-40.41 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.44371 MHz	-44.55 dBm	-31.55 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.64286 MHz	-61.10 dBm	-26.10 dB

Date: 30.MAY.2021 13:06:47

Highest Band Edge / 1 RB

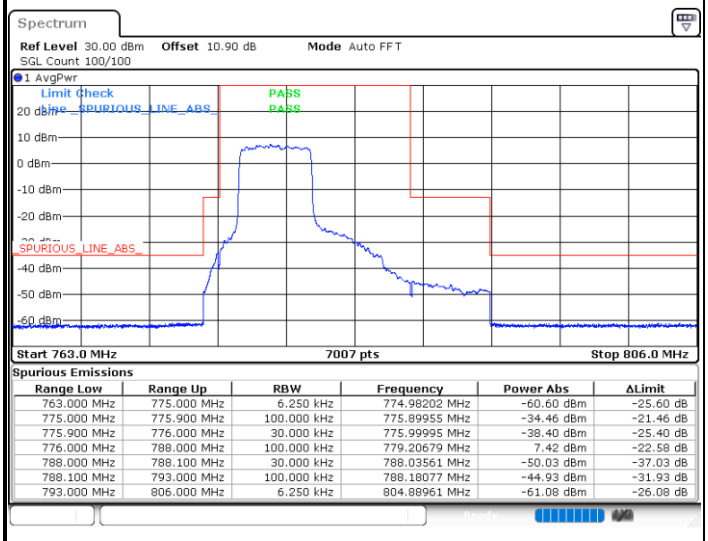


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.06394 MHz	-61.22 dBm	-26.22 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.83841 MHz	-49.06 dBm	-36.06 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97807 MHz	-55.10 dBm	-42.10 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.66334 MHz	20.81 dBm	-9.19 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-45.89 dBm	-32.89 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.29336 MHz	-43.94 dBm	-30.94 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-59.81 dBm	-24.81 dB

Date: 30.MAY.2021 13:16:47

Lowest Band Edge / Full RB

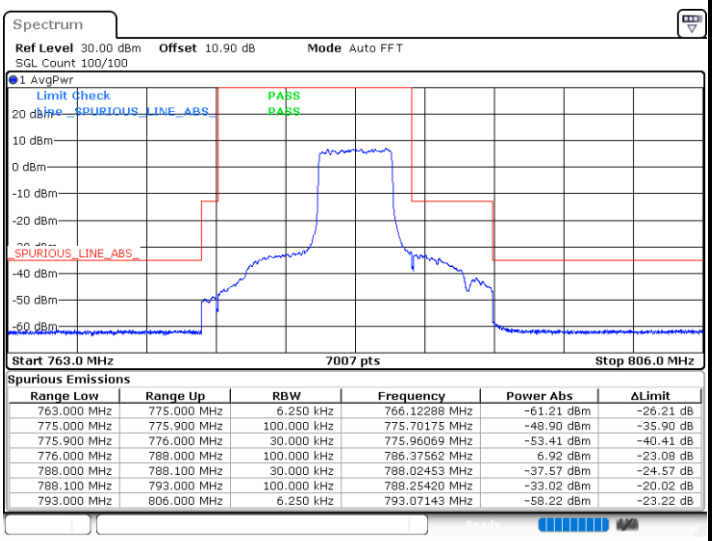


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.98202 MHz	-60.60 dBm	-25.60 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-34.46 dBm	-21.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99995 MHz	-38.40 dBm	-25.40 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.20679 MHz	7.42 dBm	-22.58 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03561 MHz	-50.03 dBm	-37.03 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18077 MHz	-44.93 dBm	-31.93 dB
793.000 MHz	806.000 MHz	6.250 kHz	804.88961 MHz	-61.08 dBm	-26.08 dB

Date: 30.MAY.2021 13:01:11

Highest Band Edge / Full RB



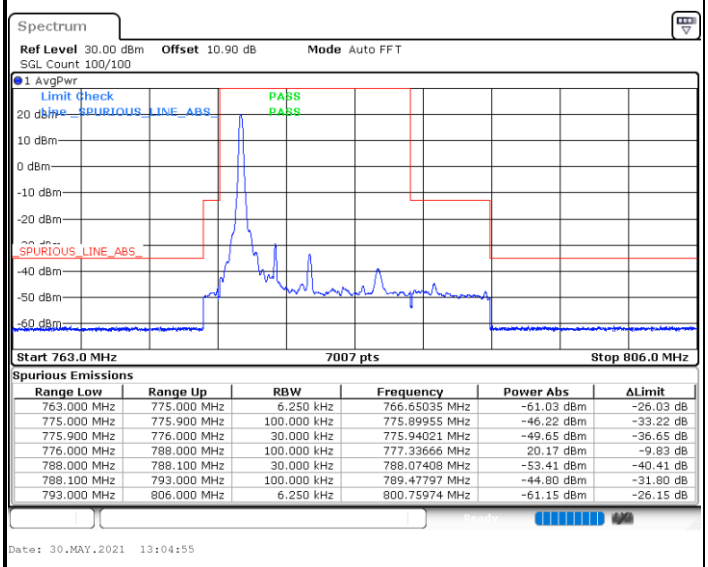
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.12288 MHz	-61.21 dBm	-26.21 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.70175 MHz	-48.90 dBm	-35.90 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96069 MHz	-53.41 dBm	-40.41 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.37562 MHz	6.92 dBm	-23.08 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02453 MHz	-37.57 dBm	-24.57 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.25420 MHz	-33.02 dBm	-20.02 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.07143 MHz	-58.22 dBm	-23.22 dB

Date: 30.MAY.2021 13:11:14

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

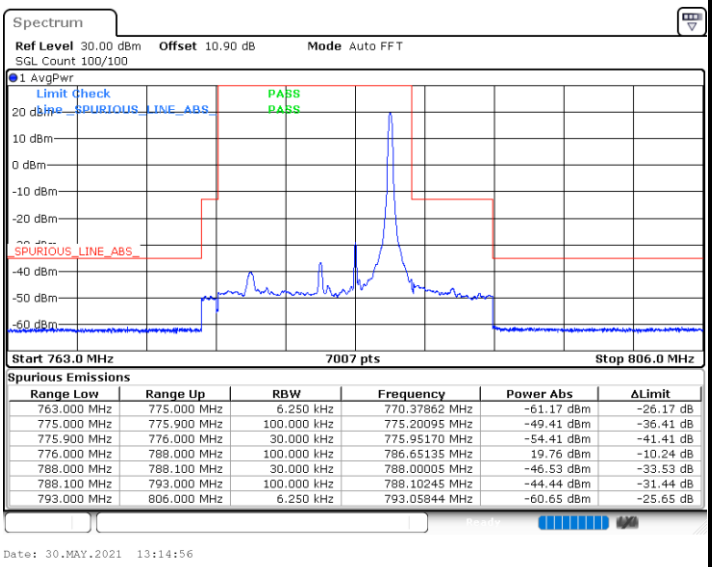


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.65035 MHz	-61.03 dBm	-26.03 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-46.22 dBm	-33.22 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.94021 MHz	-49.65 dBm	-36.65 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.33666 MHz	20.17 dBm	-9.83 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07408 MHz	-53.41 dBm	-40.41 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.47797 MHz	-44.80 dBm	-31.80 dB
793.000 MHz	806.000 MHz	6.250 kHz	800.75974 MHz	-61.15 dBm	-26.15 dB

Date: 30.MAY.2021 13:04:55

Highest Band Edge / 1 RB

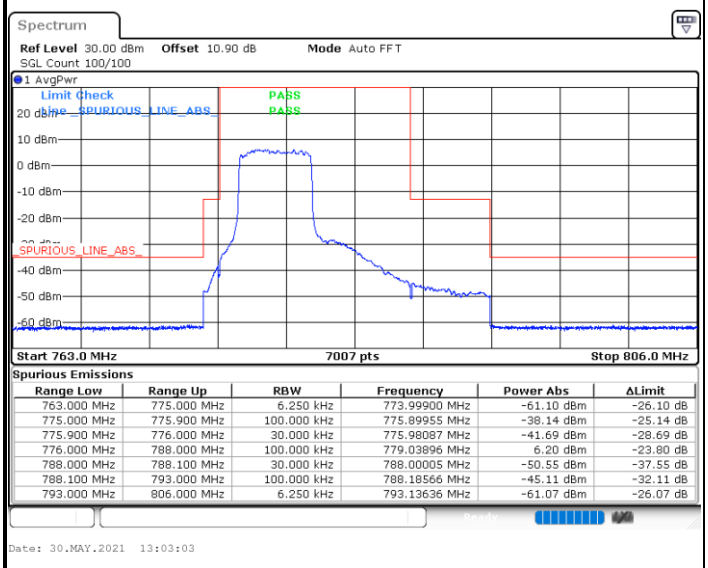


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.37862 MHz	-61.17 dBm	-26.17 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.20095 MHz	-49.41 dBm	-36.41 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95170 MHz	-54.41 dBm	-41.41 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.65135 MHz	19.76 dBm	-10.24 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-46.53 dBm	-33.53 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-44.44 dBm	-31.44 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.05844 MHz	-60.65 dBm	-25.65 dB

Date: 30.MAY.2021 13:14:56

Lowest Band Edge / Full RB

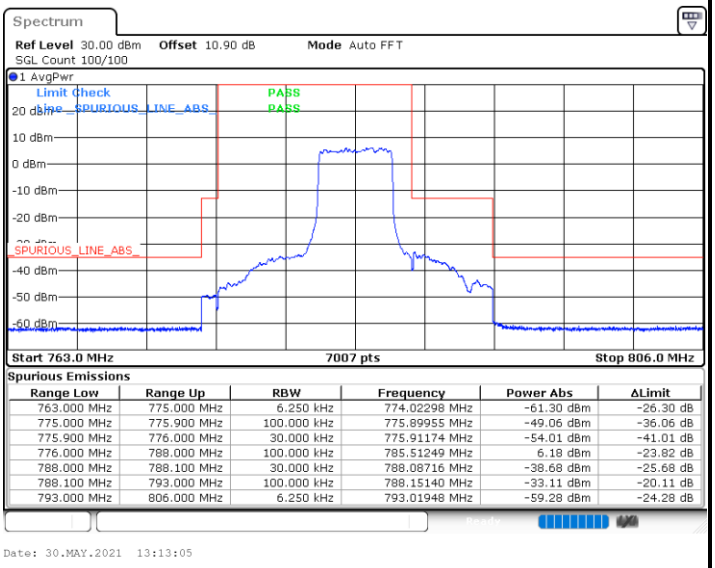


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.99900 MHz	-61.10 dBm	-26.10 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-38.14 dBm	-25.14 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98087 MHz	-41.69 dBm	-28.69 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.03896 MHz	6.20 dBm	-23.80 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00005 MHz	-50.55 dBm	-37.55 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18566 MHz	-45.11 dBm	-32.11 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.13636 MHz	-61.07 dBm	-26.07 dB

Date: 30.MAY.2021 13:03:03

Highest Band Edge / Full RB



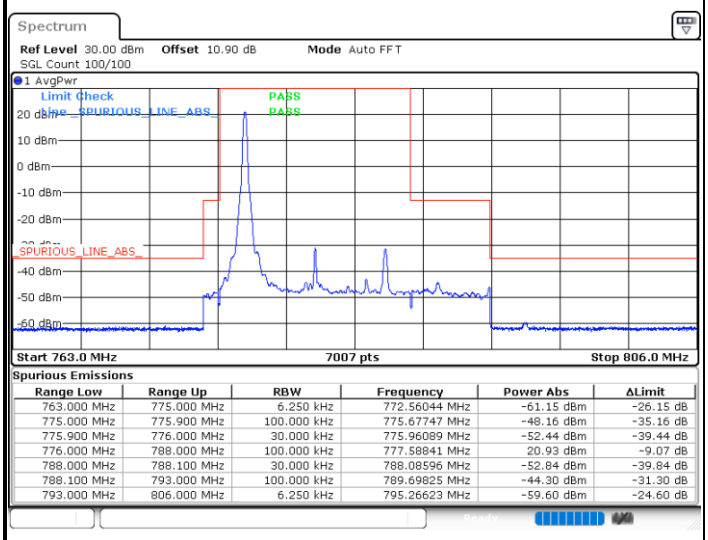
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.02298 MHz	-61.30 dBm	-26.30 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-49.06 dBm	-36.06 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.91174 MHz	-54.01 dBm	-41.01 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.51249 MHz	6.18 dBm	-23.82 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08716 MHz	-38.68 dBm	-25.68 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-33.11 dBm	-20.11 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-59.28 dBm	-24.28 dB

Date: 30.MAY.2021 13:13:05

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

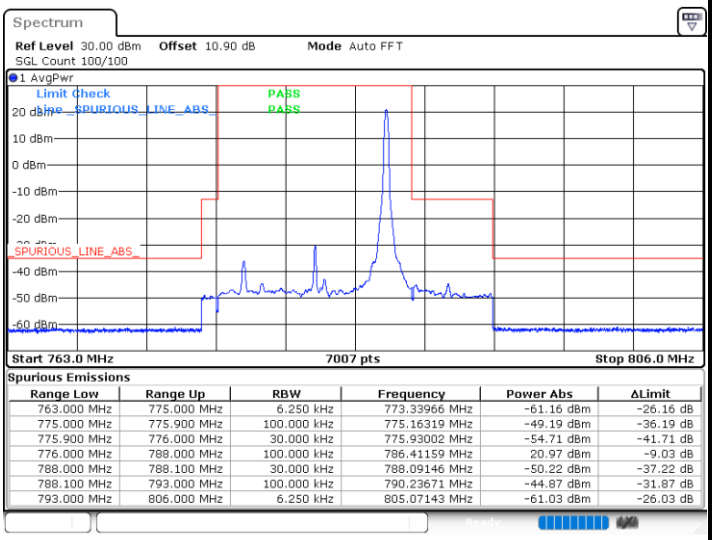


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	772.56044 MHz	-61.15 dBm	-26.15 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.67747 MHz	-48.16 dBm	-35.16 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96089 MHz	-52.44 dBm	-39.44 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	20.93 dBm	-9.07 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08596 MHz	-52.84 dBm	-39.84 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.69825 MHz	-44.30 dBm	-31.30 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.26623 MHz	-59.60 dBm	-24.60 dB

Date: 30.MAY.2021 13:52:02

Highest Band Edge / 1 RB

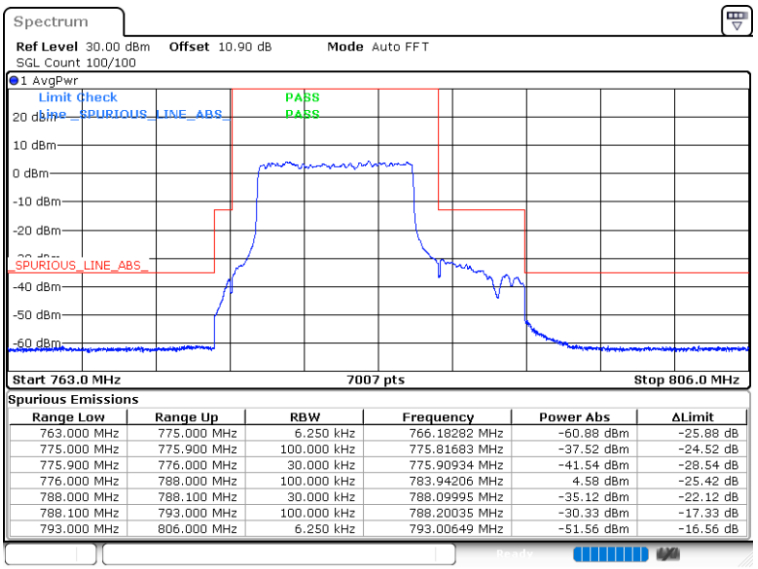


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.33966 MHz	-61.16 dBm	-26.16 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.16319 MHz	-49.19 dBm	-36.19 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93002 MHz	-54.71 dBm	-41.71 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	20.97 dBm	-9.03 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09146 MHz	-50.22 dBm	-37.22 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.23671 MHz	-44.87 dBm	-31.87 dB
793.000 MHz	806.000 MHz	6.250 kHz	805.07143 MHz	-61.03 dBm	-26.03 dB

Date: 30.MAY.2021 13:53:53

Band Edge / Full RB



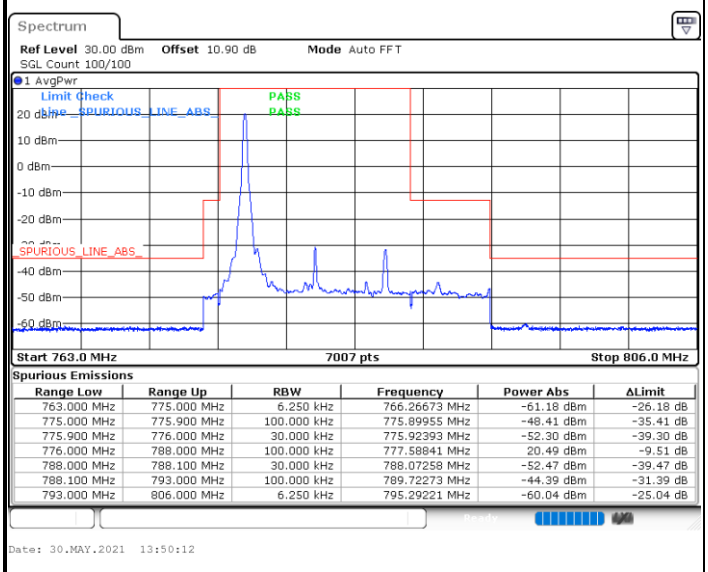
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.18282 MHz	-60.88 dBm	-25.88 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81683 MHz	-37.52 dBm	-24.52 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90934 MHz	-41.54 dBm	-28.54 dB
776.000 MHz	788.000 MHz	100.000 kHz	783.94206 MHz	4.58 dBm	-25.42 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09995 MHz	-35.12 dBm	-22.12 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.20035 MHz	-30.33 dBm	-17.33 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-51.56 dBm	-16.56 dB

Date: 30.MAY.2021 13:46:31

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

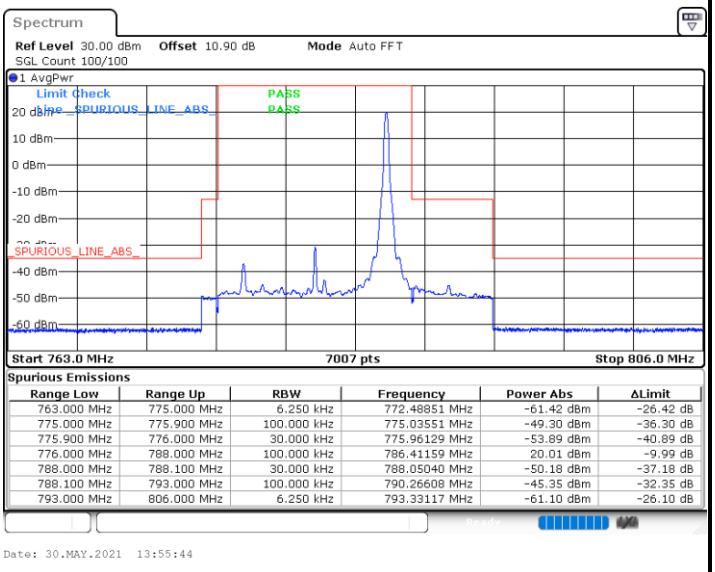


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	766.26673 MHz	-61.18 dBm	-26.18 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-48.41 dBm	-35.41 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92393 MHz	-52.30 dBm	-39.30 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	20.49 dBm	-9.51 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07258 MHz	-52.47 dBm	-39.47 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.72273 MHz	-44.39 dBm	-31.39 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.29221 MHz	-60.04 dBm	-25.04 dB

Date: 30.MAY.2021 13:50:12

Highest Band Edge / 1 RB

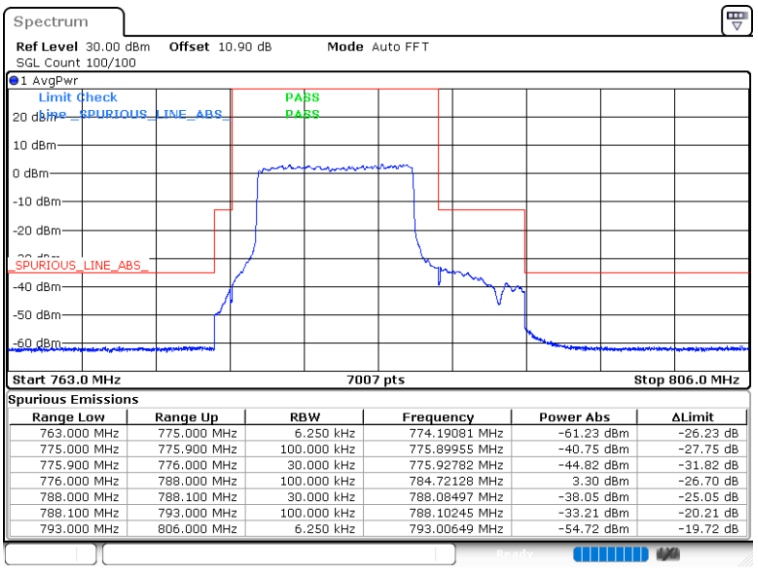


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	772.48851 MHz	-61.42 dBm	-26.42 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.03551 MHz	-49.30 dBm	-36.30 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96129 MHz	-53.89 dBm	-40.89 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	20.01 dBm	-9.99 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05040 MHz	-50.18 dBm	-37.18 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.26608 MHz	-45.35 dBm	-32.35 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.33117 MHz	-61.10 dBm	-26.10 dB

Date: 30.MAY.2021 13:55:44

Band Edge / Full RB



Spurious Emissions

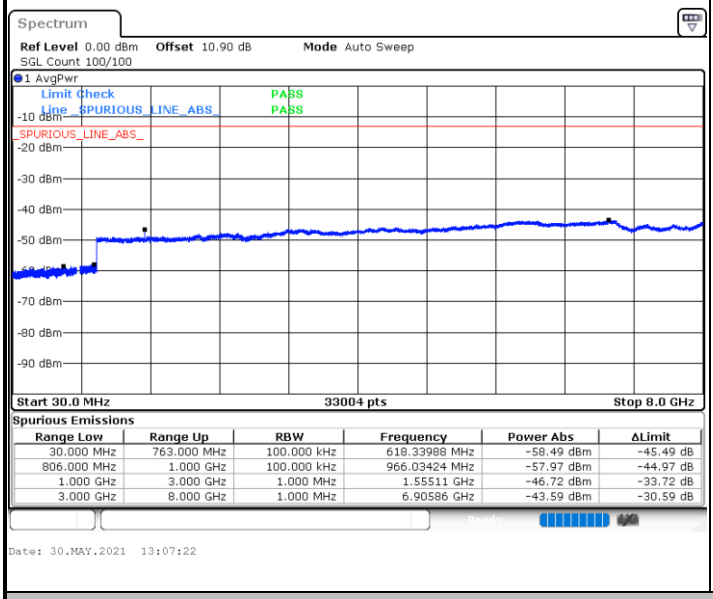
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.19081 MHz	-61.23 dBm	-26.23 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-40.75 dBm	-27.75 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.92782 MHz	-44.82 dBm	-31.82 dB
776.000 MHz	788.000 MHz	100.000 kHz	784.72128 MHz	3.30 dBm	-26.70 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08497 MHz	-38.05 dBm	-25.05 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-33.21 dBm	-20.21 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-54.72 dBm	-19.72 dB

Date: 30.MAY.2021 13:48:22

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	618.33988 MHz	-58.49 dBm	-45.49 dB
806.000 MHz	1.000 GHz	100.000 kHz	966.03424 MHz	-57.97 dBm	-44.97 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-46.72 dBm	-33.72 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.90586 GHz	-43.59 dBm	-30.59 dB

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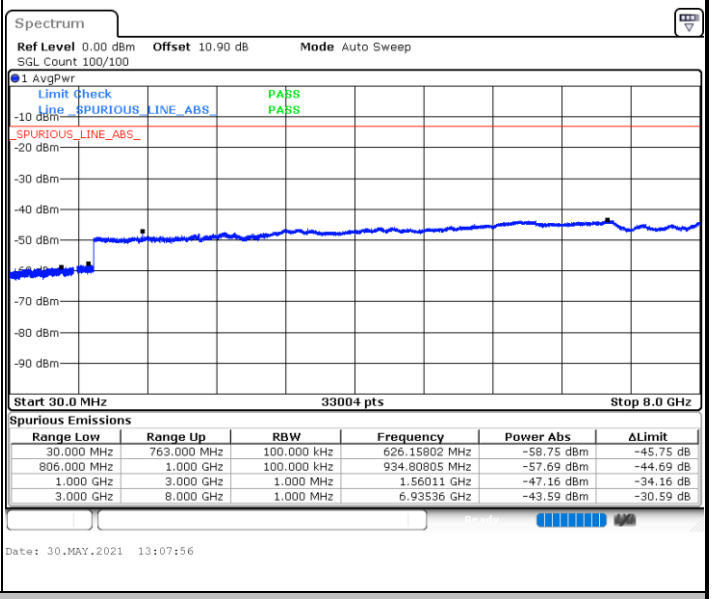
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	626.15802 MHz	-58.75 dBm	-45.75 dB
806.000 MHz	1.000 GHz	100.000 kHz	934.80805 MHz	-57.69 dBm	-44.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-47.16 dBm	-34.16 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.93536 GHz	-43.59 dBm	-30.59 dB

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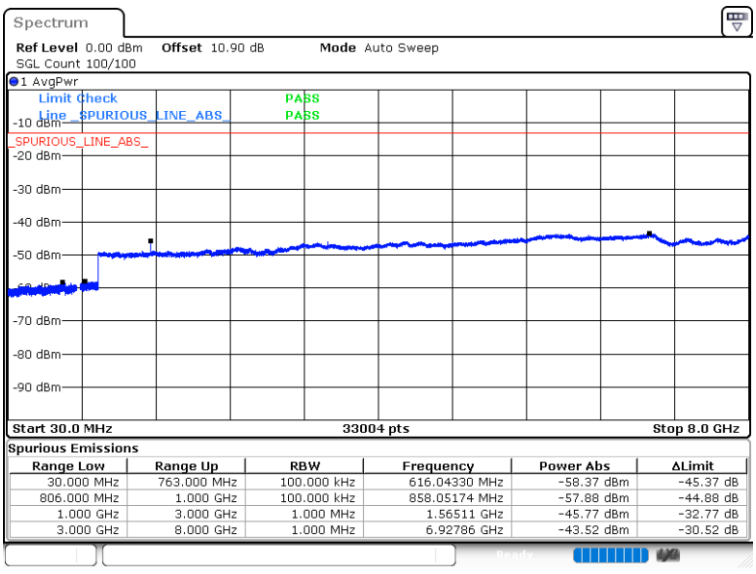
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	616.04330 MHz	-58.37 dBm	-45.37 dB
806.000 MHz	1.000 GHz	100.000 kHz	858.05174 MHz	-57.88 dBm	-44.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-45.77 dBm	-32.77 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92786 GHz	-43.52 dBm	-30.52 dB

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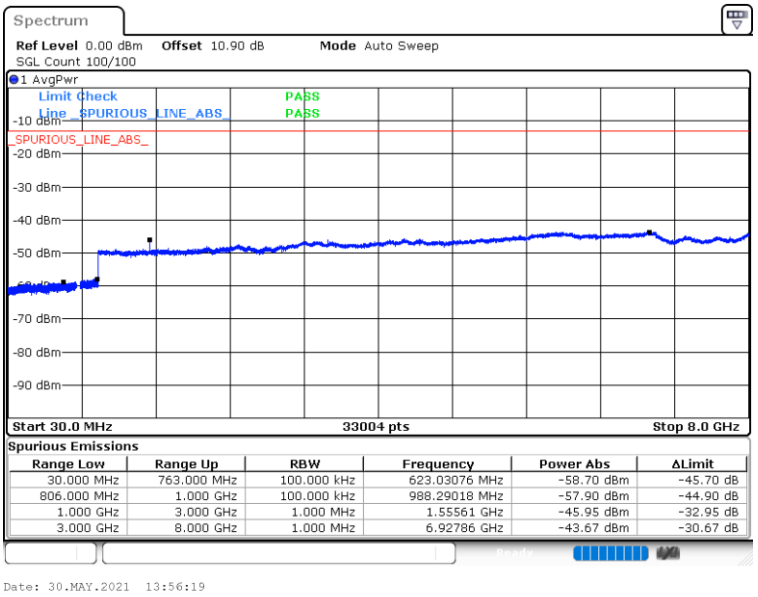
LTE Band 13 / 10MHz
Middle Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0083	
-10	Normal Voltage	0.0176	
-20	Normal Voltage	0.0106	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0173	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0171	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.