

## RF Test Report

Applicant : Superior Communications DBA PureGear  
Product Type : PURECAM  
Trade Name : PureGear  
Model Number : 07614PG  
Test Specification : FCC 47 CFR PART 24E  
FCC 47 CFR PART 27  
ANSI/TIA-603-D 2010  
Receive Date : Oct. 23, 2017  
Test Period : Nov. 01, 2017 ~ Mar. 13, 2018  
Issue Date : Mar. 14, 2018

### Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

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### **Revision History**

Rev.	Issue Date	Revisions	Revised By
00	Feb. 05, 2018	Initial Issue	Nina Lin
01	Mar. 14, 2018	Revised report information	Nina Lin

## Verification of Compliance

Issued Date: Mar. 14, 2018

Applicant : Superior Communications DBA PureGear  
Product Type : PURECAM  
Trade Name : PureGear  
Model Number : 07614PG  
FCC ID : 2A1IF-07614PG  
EUT Rated Voltage : DC 5V  
Test Voltage : DC 4.5V / DC 5.0V / DC 5.5V, 120Vac / 60 Hz  
Applicable Standard : FCC 47 CFR PART 24E  
FCC 47 CFR PART 27  
ANSI/TIA-603-D 2010  
Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.  
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Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang  
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

## TABLE OF CONTENTS

<b>1</b>	<b>General Information</b> .....	<b>5</b>
1.1.	EUT Description.....	5
1.2.	Mode of Operation .....	12
1.3.	EUT Exercise Software .....	17
1.4.	Configuration of Test System Details .....	17
1.5.	Test Instruments.....	18
1.6.	Test Site Environment.....	19
1.7.	Summary of Test Result.....	20
<b>2</b>	<b>Measurement Procedure</b> .....	<b>21</b>
2.1.	Conducted Output Average Power Test .....	21
2.2.	Effective Radiated Power / Equivalent Isotropic Radiated Power Test.....	22
2.3.	Frequency Stability Test .....	25
2.4.	Emission Bandwidth & Occupied Bandwidth Test .....	26
2.5.	Peak to Average Ratio Test.....	27
2.6.	Band Edge Test.....	28
2.7.	Conducted Spurious Emission Test.....	30
2.8.	Radiated Emission Test.....	32
<b>3</b>	<b>Test Results</b> .....	<b>34</b>
	Conducted Output Average Power .....	34
	Effective Radiated Power / Equivalent Isotropic Radiated Power .....	53
	Radiated Emission.....	57
	Appendix : Frequency Stability/ Emission Bandwidth & Occupied Bandwidth/ Peak to Average Ratio/ Band Edge/ Conducted Spurious Emission.....	129



# 1 General Information

## 1.1. EUT Description

Applicant	Superior Communications DBA PureGear 5082 4th Street Irwindale California USA, Irwindale, California, 91706, United States		
Manufacturer	Shenzhen Auto Range Tech Co., Limited 5/F, Bldg. A1, Atomic Power Industrial Park, Fuming, Guanlan, Shenzhen, Guangdong. P. R. China.		
Product Type	PURECAM		
Trade Name	PureGear		
Model Number	07614PG		
FCC ID	2AIF-07614PG		
IMEI No.	35316305670667		
Operate Band	Frequency Range (MHz)	Modulation	Channel Bandwidth
LTE Band 2	UL: 1850.7 ~ 1909.3	QPSK, 16QAM	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz
	DL: 1930.7 ~ 1989.3	QPSK, 16QAM	
LTE Band 4	UL: 1710.7 ~ 1754.3	QPSK, 16QAM	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz
	DL: 2110.7 ~ 2154.3	QPSK, 16QAM	
LTE Band 12	UL: 699 ~ 716	QPSK, 16QAM	1.4M, 3M, 5MHz, 10MHz
	DL: 729 ~ 746	QPSK, 16QAM	
LTE Band 17	UL: 704.0 ~ 715.9	QPSK, 16QAM	5MHz, 10MHz
	DL: 734.0 ~ 745.9	QPSK, 16QAM	
Type of Antenna	Internal Antenna		
Antenna Gain	LTE Band 2	2.8 dBi	
	LTE Band 4	0.2 dBi	
	LTE Band 12	2.0 dBi	
	LTE Band 17	2.0 dBi	
Operate Temp. Range	-10 ~ 70 °C		



Band	Channel Bandwidth	Modulation	Max. RF Output Power
			(W)
LTE Band2	1.4MHz	QPSK	0.192
LTE Band2	1.4MHz	16QAM	0.161
LTE Band2	3MHz	QPSK	0.189
LTE Band2	3MHz	16QAM	0.156
LTE Band2	5MHz	QPSK	0.194
LTE Band2	5MHz	16QAM	0.162
LTE Band2	10MHz	QPSK	0.193
LTE Band2	10MHz	16QAM	0.163
LTE Band2	15MHz	QPSK	0.192
LTE Band2	15MHz	16QAM	0.169
LTE Band2	20MHz	QPSK	0.193
LTE Band2	20MHz	16QAM	0.168
LTE Band4	1.4MHz	QPSK	0.196
LTE Band4	1.4MHz	16QAM	0.165
LTE Band4	3MHz	QPSK	0.195
LTE Band4	3MHz	16QAM	0.163
LTE Band4	5MHz	QPSK	0.195
LTE Band4	5MHz	16QAM	0.161
LTE Band4	10MHz	QPSK	0.194
LTE Band4	10MHz	16QAM	0.162
LTE Band4	15MHz	QPSK	0.191
LTE Band4	15MHz	16QAM	0.157
LTE Band4	20MHz	QPSK	0.191
LTE Band4	20MHz	16QAM	0.159



Band	Channel Bandwidth	Modulation	Max. RF Output Power
			(W)
LTE Band12	1.4MHz	QPSK	0.188
LTE Band12	1.4MHz	16QAM	0.165
LTE Band12	3MHz	QPSK	0.187
LTE Band12	3MHz	16QAM	0.164
LTE Band12	5MHz	QPSK	0.190
LTE Band12	5MHz	16QAM	0.164
LTE Band12	10MHz	QPSK	0.193
LTE Band12	10MHz	16QAM	0.164
LTE Band17	5MHz	QPSK	0.193
LTE Band17	5MHz	16QAM	0.173
LTE Band17	10MHz	QPSK	0.186
LTE Band17	10MHz	16QAM	0.167



Band	Channel Bandwidth	Modulation	E.R.P. /E.I.R.P.
			(W)
LTE Band2	1.4MHz	QPSK	0.161
LTE Band2	1.4MHz	16QAM	0.132
LTE Band2	3MHz	QPSK	0.150
LTE Band2	3MHz	16QAM	0.123
LTE Band2	5MHz	QPSK	0.152
LTE Band2	5MHz	16QAM	0.124
LTE Band2	10MHz	QPSK	0.161
LTE Band2	10MHz	16QAM	0.126
LTE Band2	15MHz	QPSK	0.158
LTE Band2	15MHz	16QAM	0.122
LTE Band2	20MHz	QPSK	0.165
LTE Band2	20MHz	16QAM	0.111
LTE Band4	1.4MHz	QPSK	0.196
LTE Band4	1.4MHz	16QAM	0.130
LTE Band4	3MHz	QPSK	0.187
LTE Band4	3MHz	16QAM	0.131
LTE Band4	5MHz	QPSK	0.190
LTE Band4	5MHz	16QAM	0.129
LTE Band4	10MHz	QPSK	0.177
LTE Band4	10MHz	16QAM	0.128
LTE Band4	15MHz	QPSK	0.187
LTE Band4	15MHz	16QAM	0.134
LTE Band4	20MHz	QPSK	0.191
LTE Band4	20MHz	16QAM	0.138





Band	Channel Bandwidth	Modulation	E.R.P. /E.I.R.P.
			(W)
LTE Band12	1.4MHz	QPSK	0.191
LTE Band12	1.4MHz	16QAM	0.134
LTE Band12	3MHz	QPSK	0.182
LTE Band12	3MHz	16QAM	0.124
LTE Band12	5MHz	QPSK	0.190
LTE Band12	5MHz	16QAM	0.125
LTE Band12	10MHz	QPSK	0.196
LTE Band12	10MHz	16QAM	0.130
LTE Band17	5MHz	QPSK	0.194
LTE Band17	5MHz	16QAM	0.131
LTE Band17	10MHz	QPSK	0.195
LTE Band17	10MHz	16QAM	0.125



Band	Channel Bandwidth	Modulation	Emission Designator	
			Occupied Bandwidth (MHz)	
LTE Band2	1.4MHz	QPSK	1.0773	1M08G7D
LTE Band2	1.4MHz	16QAM	1.0771	1M08W7D
LTE Band2	3MHz	QPSK	2.6894	2M69G7D
LTE Band2	3MHz	16QAM	2.6818	2M68W7D
LTE Band2	5MHz	QPSK	4.4740	4M47G7D
LTE Band2	5MHz	16QAM	4.4856	4M49W7D
LTE Band2	10MHz	QPSK	8.9323	8M93G7D
LTE Band2	10MHz	16QAM	8.9440	8M94W7D
LTE Band2	15MHz	QPSK	13.421	13M42G7D
LTE Band2	15MHz	16QAM	13.407	13M41W7D
LTE Band2	20MHz	QPSK	17.851	17M85G7D
LTE Band2	20MHz	16QAM	17.858	17M86W7D
LTE Band4	1.4MHz	QPSK	1.0768	1M08G7D
LTE Band4	1.4MHz	16QAM	1.0771	1M08W7D
LTE Band4	3MHz	QPSK	2.6866	2M69G7D
LTE Band4	3MHz	16QAM	2.6839	2M68W7D
LTE Band4	5MHz	QPSK	4.4743	4M47G7D
LTE Band4	5MHz	16QAM	4.4894	4M49W7D
LTE Band4	10MHz	QPSK	8.9395	8M94G7D
LTE Band4	10MHz	16QAM	8.9459	8M95W7D
LTE Band4	15MHz	QPSK	13.436	13M44G7D
LTE Band4	15MHz	16QAM	13.418	13M42W7D
LTE Band4	20MHz	QPSK	17.861	17M86G7D
LTE Band4	20MHz	16QAM	17.872	17M87W7D



Band	Channel Bandwidth	Modulation	Emission Designator Occupied Bandwidth (MHz)	
LTE Band12	1.4MHz	QPSK	1.0787	1M08G7D
LTE Band12	1.4MHz	16QAM	1.0776	1M08W7D
LTE Band12	3MHz	QPSK	2.6914	2M69G7D
LTE Band12	3MHz	16QAM	2.6877	2M69W7D
LTE Band12	5MHz	QPSK	4.4772	4M48G7D
LTE Band12	5MHz	16QAM	4.4918	4M49W7D
LTE Band12	10MHz	QPSK	8.9528	8M95G7D
LTE Band12	10MHz	16QAM	8.9680	8M97W7D
LTE Band17	5MHz	QPSK	4.4844	4M48G7D
LTE Band17	5MHz	16QAM	4.4935	4M49W7D
LTE Band17	10MHz	QPSK	8.8919	8M89G7D
LTE Band17	10MHz	16QAM	8.9019	8M90W7D

## 1.2. Mode of Operation

Three channels had been tested for each channel bandwidth.

LTE Band 2						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18607	1850.7	18615	1851.5	18625	1852.5
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19193	1909.3	19185	1908.5	19175	1907.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	18650	1855.0	18675	1857.5	18700	1860.0
Middle CH	18900	1880.0	18900	1880.0	18900	1880.0
High CH	19150	1905.0	19125	1902.5	19100	1900.0

LTE Band 4						
Channel Bandwidth	1.4MHz		3MHz		5MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	19957	1710.7	19965	1711.5	19975	1712.5
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20393	1754.3	20385	1753.5	20375	1752.5
Channel Bandwidth	10MHz		15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20000	1715.0	20025	1717.5	20050	1720.0
Middle CH	20175	1732.5	20175	1732.5	20175	1732.5
High CH	20350	1750.0	20325	1747.5	20300	1745.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.



LTE Band 12				
Channel Bandwidth	1.4MHz		3MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23017	699.7	23025	700.5
Middle CH	23095	707.5	23095	707.5
High CH	23173	715.3	23165	714.5
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23035	701.5	23060	704.0
Middle CH	23095	707.5	23095	707.5
High CH	23155	713.5	23130	711.0

LTE Band 17				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	23755	706.5	23780	709.0
Middle CH	23790	710.0	23790	710.0
High CH	23825	713.5	23800	711.0

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.



During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission: 30MHz to 26.5 GHz.

Band	Channel Bandwidth	Test Modes	
LTE Band 2	1.4 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 37) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 19) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 39) Link <input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link <input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link	QPSK



Band	Channel Bandwidth	Test Modes	
LTE Band 4	1.4 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK
	15 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 37) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 19) Link <input type="checkbox"/> LTE(RB Size 36, RB Offset 39) Link <input type="checkbox"/> LTE(RB Size 75, RB Offset 0) Link	QPSK
	20 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 99) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 50) Link <input type="checkbox"/> LTE(RB Size 100, RB Offset 0) Link	QPSK



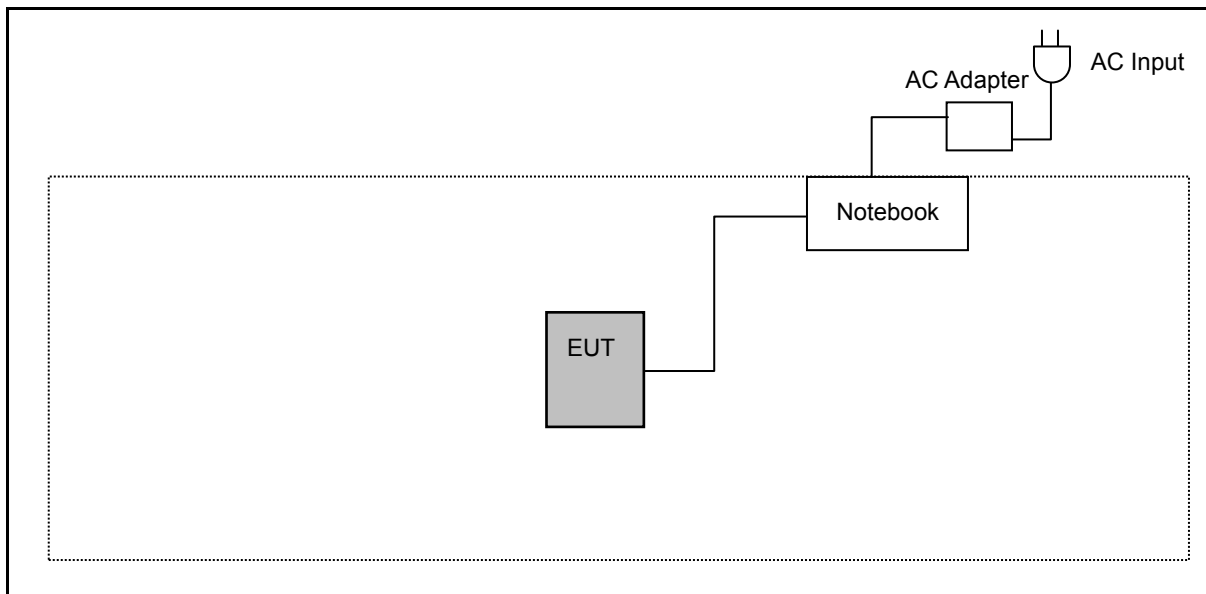
Band	Channel Bandwidth	Test Modes	
LTE Band 12	1.4 MHz	<input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 2) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 5) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 1) Link <input type="checkbox"/> LTE(RB Size 3, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 6, RB Offset 0) Link	QPSK
	3 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 7) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 14) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 3) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 7) Link <input type="checkbox"/> LTE(RB Size 15, RB Offset 0) Link	QPSK
	5 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 12) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK
LTE Band 17	5 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 12) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 6) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link	QPSK
	10 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input checked="" type="checkbox"/> LTE(RB Size 1, RB Offset 49) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 25, RB Offset 25) Link <input type="checkbox"/> LTE(RB Size 50, RB Offset 0) Link	QPSK



### 1.3. EUT Exercise Software

1	Setup the EUT shown on “Configuration of Test System Details”.
2	Turn on the power of all equipment.
3	EUT run test program test.

### 1.4. Configuration of Test System Details





### 1.5. Test Instruments

For Conducted

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Cycle
Wideband Radio Communication Tester	R & S	CMW500	103168	11/05/2017	1 year
Spectrum Analyzer	Agilent	N9030A	MY53120541	12/22/2016	1 year
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	04/17/2017	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

For Spurious Radiation

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Cycle
RF Pre-selector	Agilent	N9039A	MY46520256	04/24/2017	1 year
EXA Signal Analyzer	Keysight	N9010A	MY52221312	01/06/2017	1 year
Pre Amplifier	Agilent	8449B	3008A02237	10/16/2017	1 year
Pre Amplifier	Agilent	8447D	2944A11119	01/12/2017	1 year
Pre Amplifier (26.5~40GHz)	EMCI	EMC2654045	980028	08/29/2017	1 year
Pre Amplifier (1~26.5GHz)	EMCI	EMC012645SE	980289	01/16/2017	1 year
Broadband Antenna	Schwarzbeck	VULB9168	416	10/26/2017	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/20/2017	1 year
Horn Antenna (18~40GHz)	ETS	3116	00086467	09/11/2017	1 year
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	02/20/2017	1 year
Microwave Cable	EMCI	EMC-104-SM-SM-14000	140202	02/20/2017	1 year
Microwave Cable	EMCI	EMC104-SM-SM-600	140301	02/20/2017	1 year
Signal Generator	Agilent	E8257D	MY44320425	03/02/2017	1 year
Test Site	ATL	TE01	888001	08/29/2017	1 year

Note: N.C.R. = No Calibration Request.



## 1.6. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

Test Setting Condition		
L.V.	Low Voltage	DC 4.5V
N.V.	Normal Voltage	DC 5.0V
H.V.	High Voltage	DC 5.5V
L.T.	Low Temperature	-10 °C
N.T.	Normal Temperature	+25 °C
H.T.	High Temperature	+70 °C



## 1.7. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Pass
§24.232 §27.50 §27.50	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §24.235 §27.54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Pass
§24.232 §27.50	Peak to average ratio	Pass
§2.1051 §24.238 §27.53	Band Edge	Pass
§2.1051 §24.238 §27.53	Conducted Spurious Emissions	Pass
§2.1053 §24.238 §27.53	Radiated Spurious Emissions	Pass

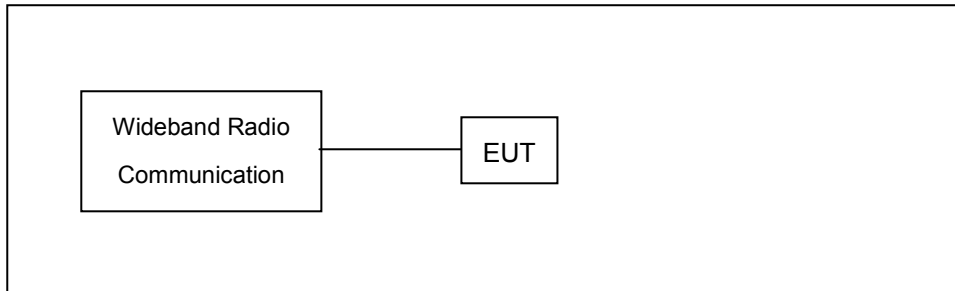
## 2 Measurement Procedure

### 2.1. Conducted Output Average Power Test

- **Limit**

N/A

- **Test Setup**



- **Test Procedure**

- The EUT was set up for the maximum power with simulator.
- Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

- **Uncertainty**

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

## 2.2. Effective Radiated Power / Equivalent Isotropic Radiated Power Test

### ■ Limit

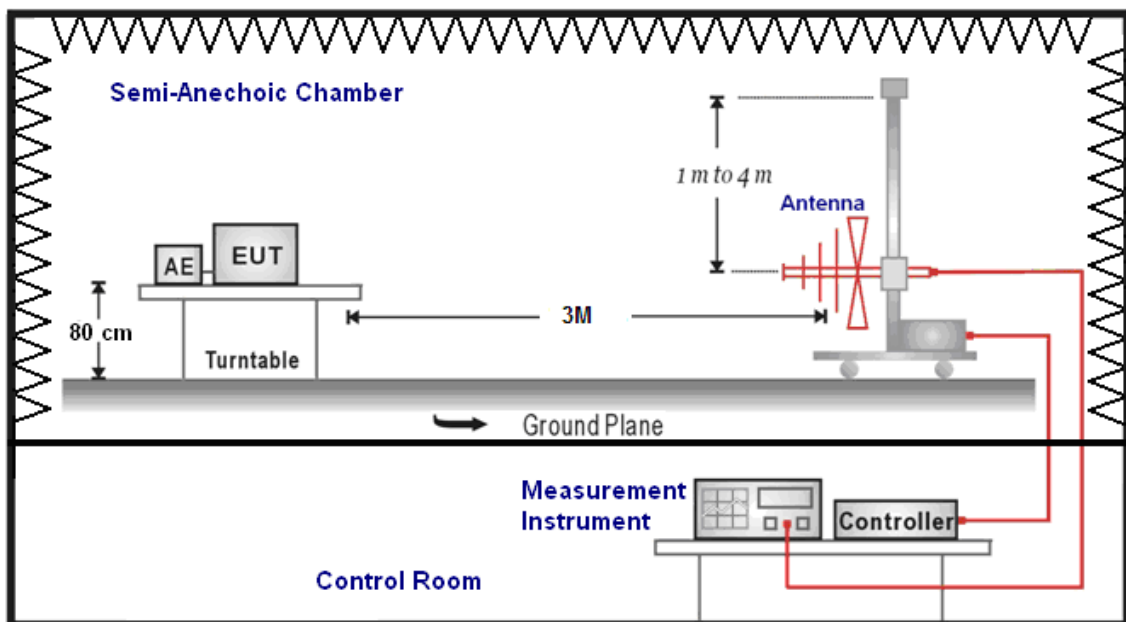
For FCC Part 27: The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

For FCC Part 27.50(c)(9): Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

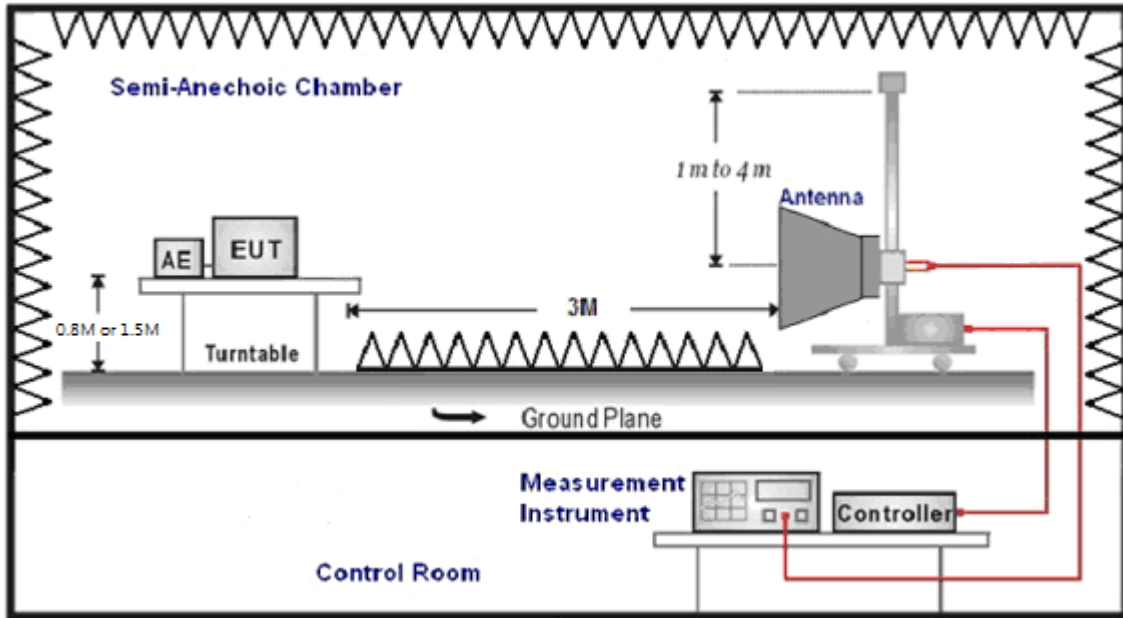
For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

### ■ Test Setup

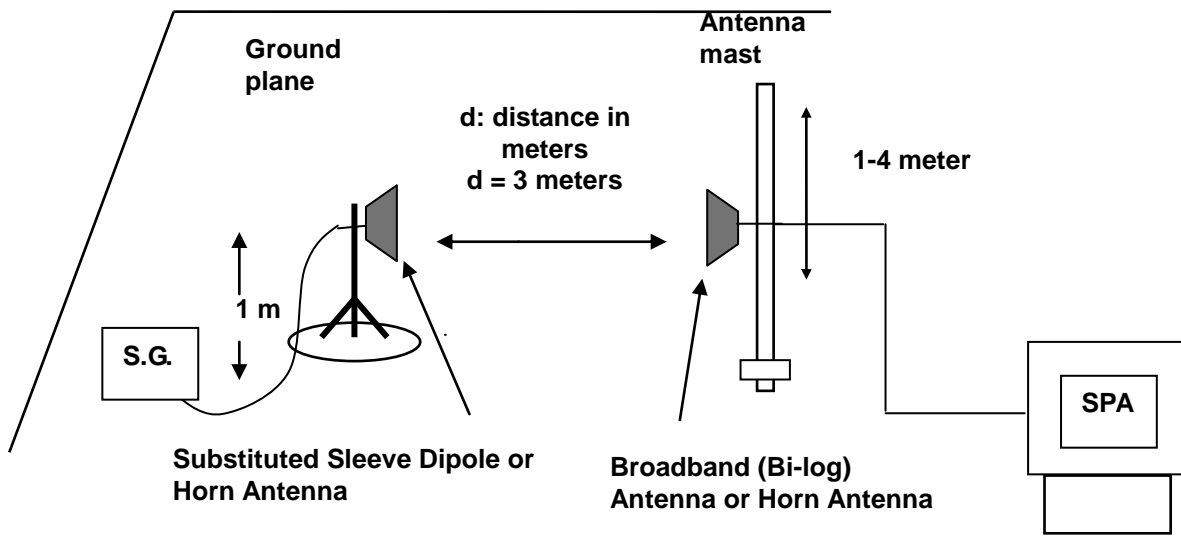
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP





■ **Test Procedure**

- a. The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.
- d.  $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e.  $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenna

■ **Uncertainty**

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072 \text{ dB}$ .

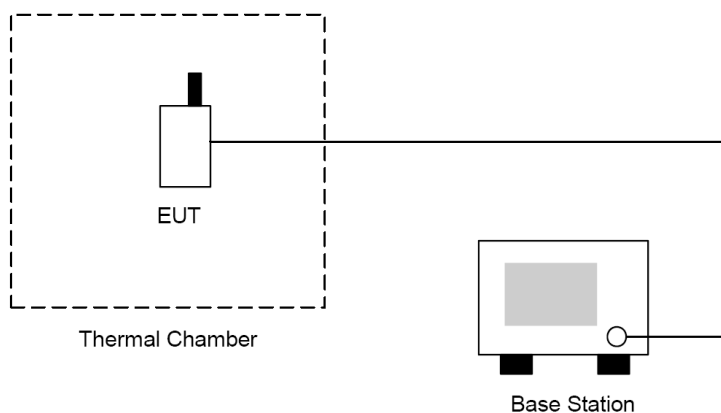


## 2.3. Frequency Stability Test

### ■ Limit

According to the FCC rule shall be tested the frequency stability. The rule is defined that” The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with the 2.1055(a)(1)  $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$ .

### ■ Setup



### ■ Test Procedure

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to  $-30^{\circ}\text{C}$  and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at  $25 \pm 5^{\circ}\text{C}$  and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

### ■ Uncertainty

The measurement uncertainty is defined as for Frequency Stability measurement is  $\pm 10\text{Hz}$ .

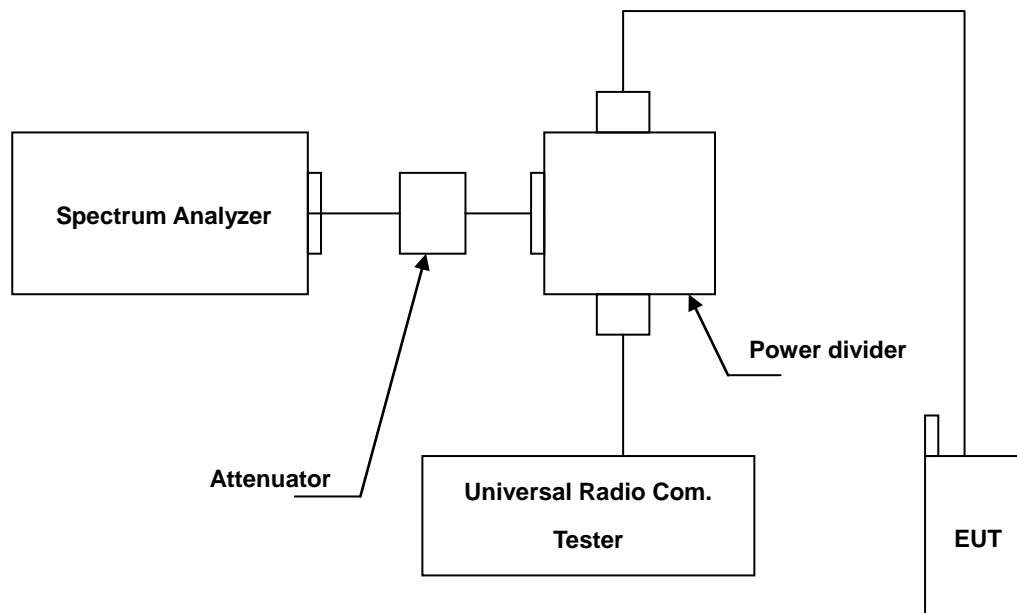
## 2.4. Emission Bandwidth & Occupied Bandwidth Test

### ■ Limit

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 power of a given emission.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### ■ Setup



### ■ Test Procedure

- The EUT makes a phone call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels. (low, middle and high operational frequency range.)
- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

### ■ Uncertainty

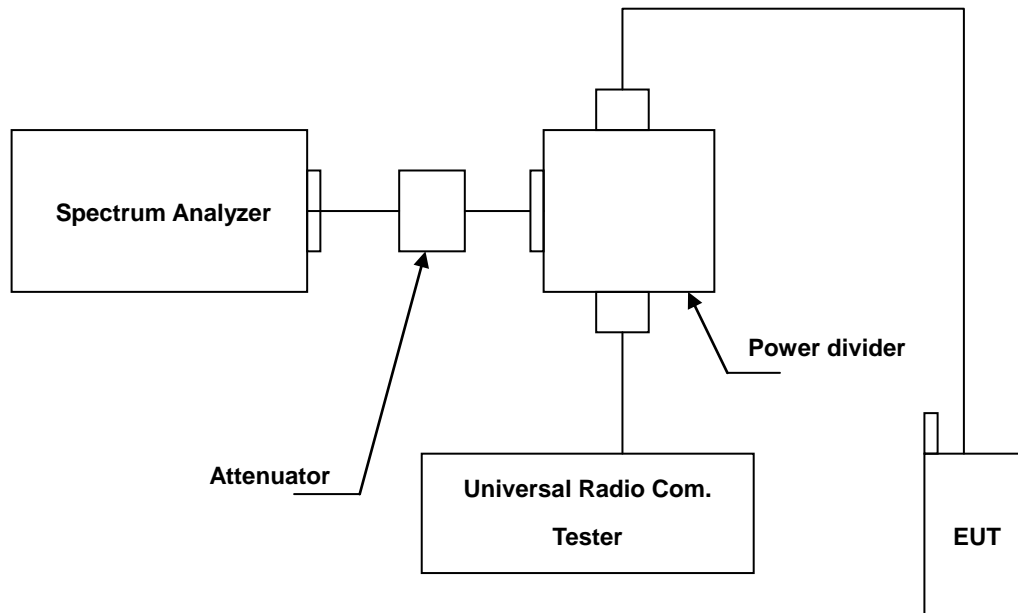
The measurement uncertainty is defined as  $\pm 10\text{Hz}$

## 2.5. Peak to Average Ratio Test

### ■ Limit

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.

### ■ Setup



### ■ Test Procedure

- Set resolution/measurement bandwidth = signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

### ■ Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.



## 2.6. Band Edge Test

### ■ Limit

The Band Edge Limit:

§24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10\log(P)$  dB.

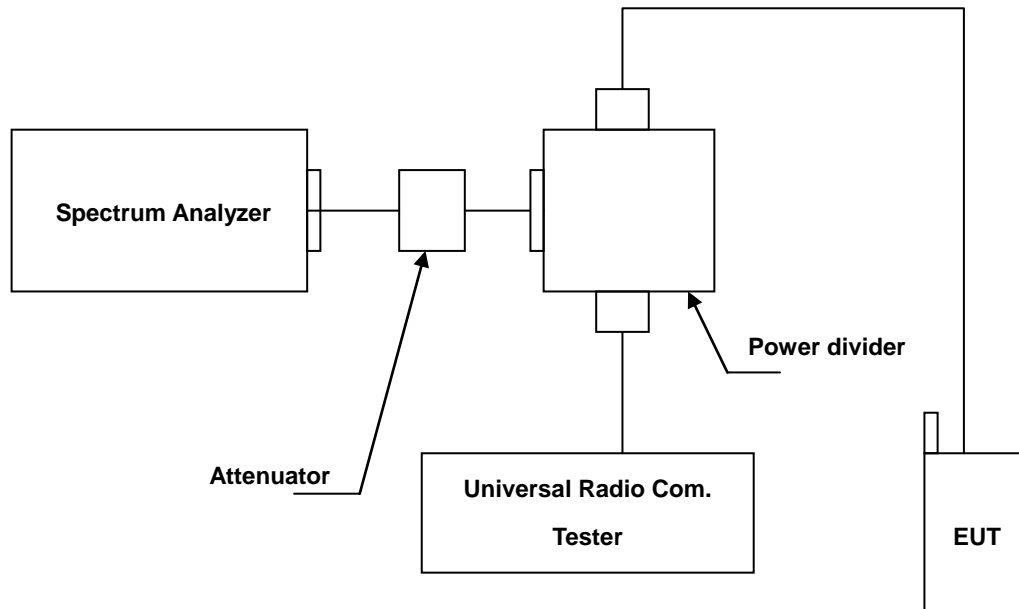
§27.53(g)

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

For mobile digital stations, the attenuation factor shall be not less than  $43 + 10\log_{10}(P)$  dB at the channel edge and  $55 + 10\log_{10}(P)$  dB

at 5.5 megahertz from the channel edges.

## ■ Setup



## ■ Test Procedure

- The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)
- The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss in the transmitted path track.
- The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.
- Record the max trace plot into the test report.

## ■ Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

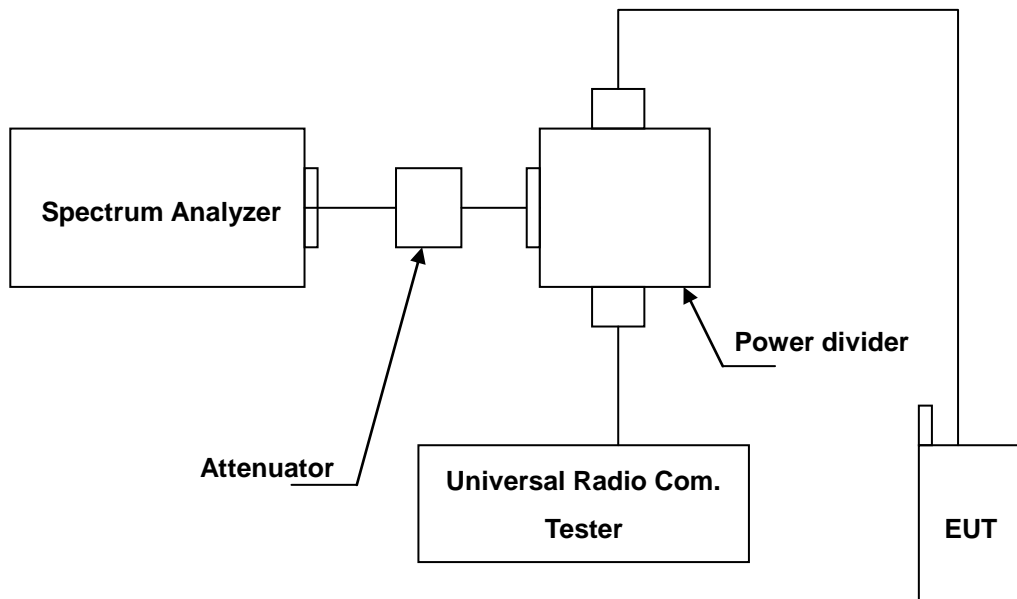
## 2.7. Conducted Spurious Emission Test

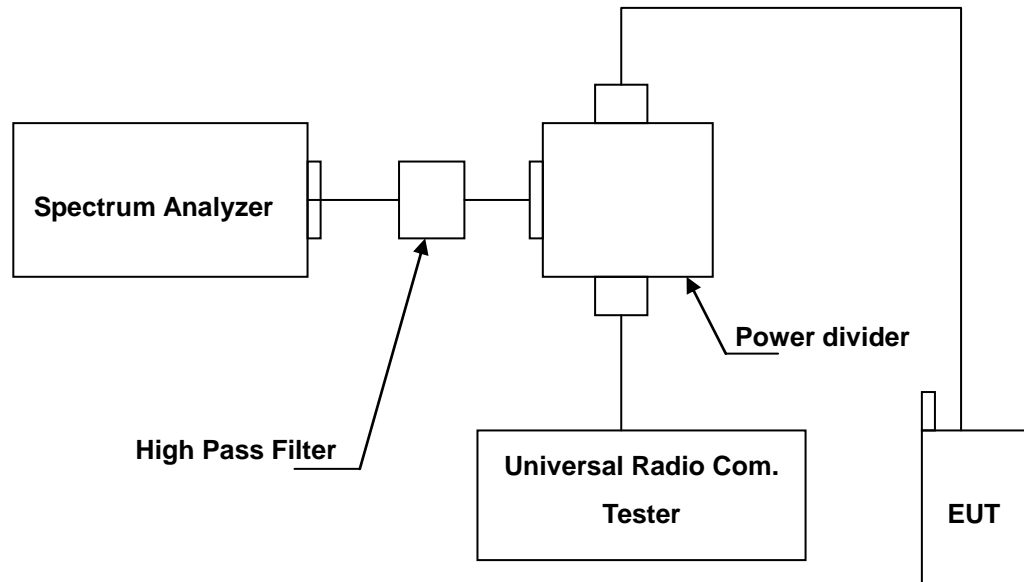
### ■ Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission equal to  $-13\text{dBm}$

### ■ Setup

Below 2.8GHz



**Above 2.8GHz**

**■ Test Procedure**

- The EUT was set up for the maximum peak power with WWAN link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 10MHz to 2.5GHz (Band 7 and Band 41: scanned from 10MHz to 4GHz), it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.
- When the spectrum scanned from 2.5GHz to 10<sup>th</sup> harmonic (Band 7 and Band 41: scanned from 4GHz to 10<sup>th</sup> harmonic), it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.

**■ Uncertainty**

The measurement uncertainty is evaluated as  $\pm 2.24$  dB.

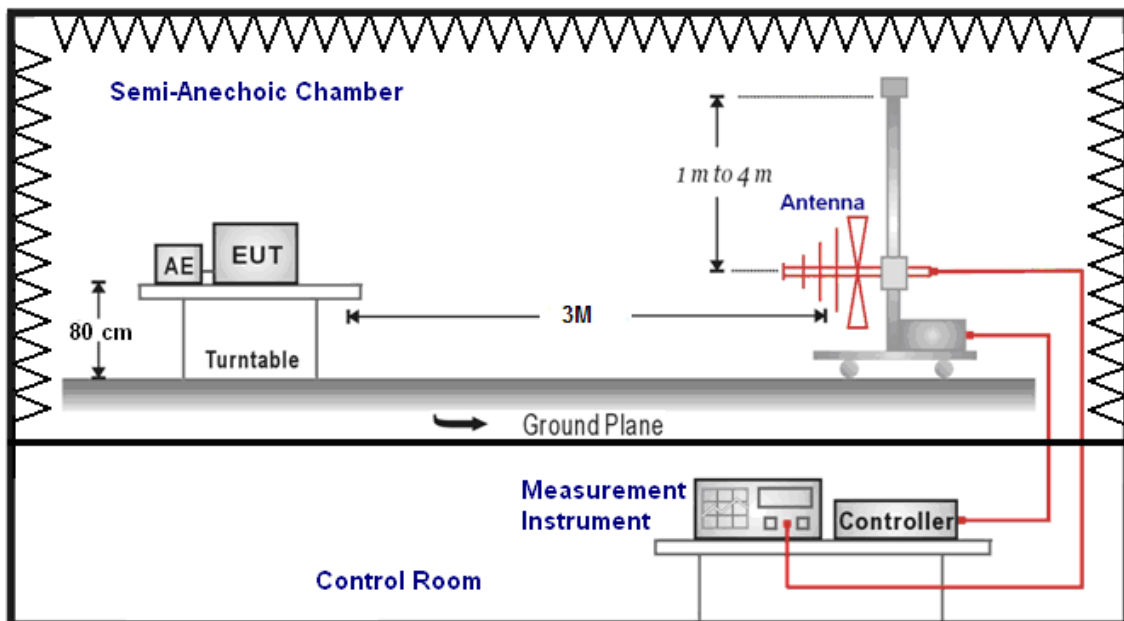
## 2.8. Radiated Emission Test

### ■ Limit

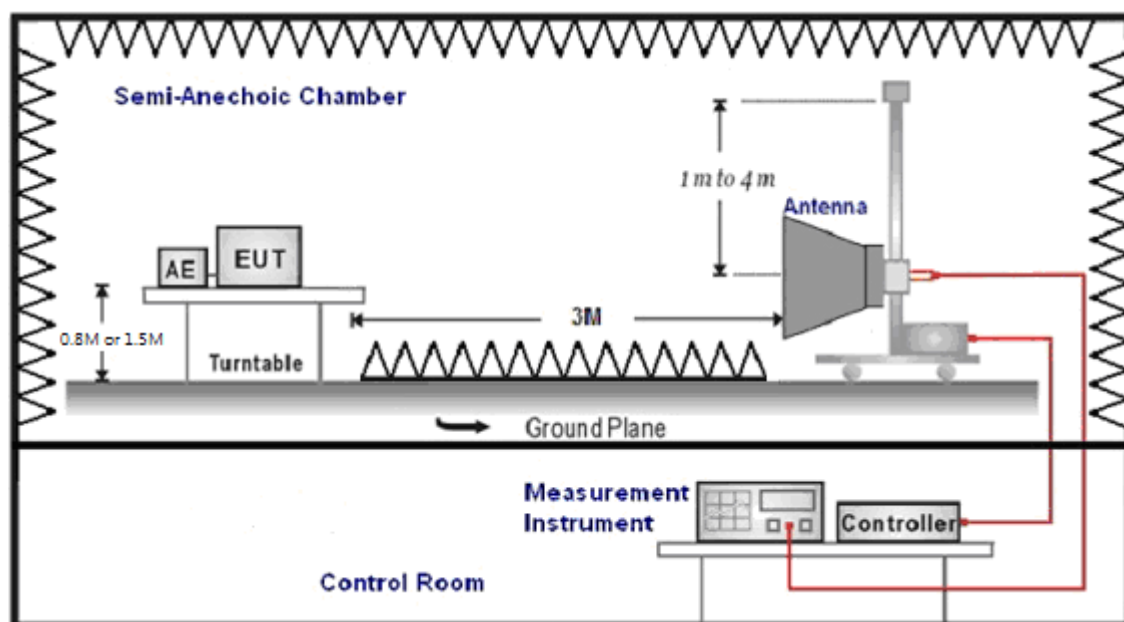
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB. The limit of emission equal to  $-13\text{dBm}$

### ■ Setup

Below 1GHz

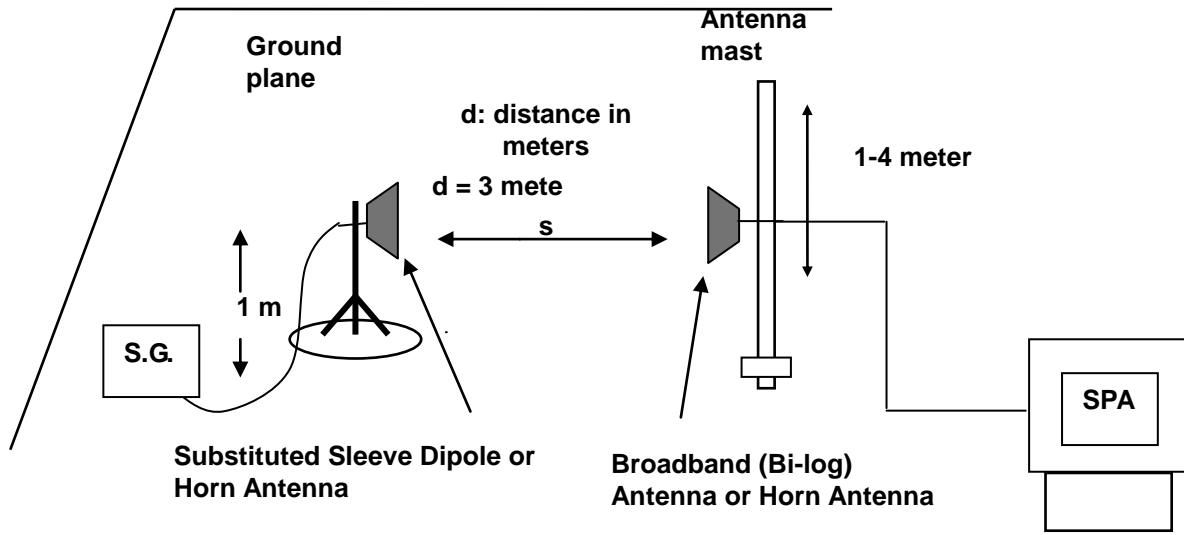


Above 1GHz





For Substituted Method Test Set-UP



#### ■ Test Procedure

- a. The EUT was set up for the maximum power with wwan link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range).
- b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution antenna (Note:1 & 2) is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d.  $E.I.R.P. = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e.  $E.R.P. = E.I.R.P. - 2.15 \text{ dB}$

Note: 1. Below 1 GHz Substituted Method Test : Sleeve dipole antenna to Bi-Log Antenna

2. Above 1 GHz Substituted Method Test : Horn antenna to Horn Antenn

#### ■ Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is  $\pm 3.072 \text{ dB}$ .



### 3 Test Results

#### Conducted Output Average Power

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	1.4MHz	QPSK	18607	1850.7	1	0	22.68	0.185
					1	2	22.75	0.188
					1	5	22.68	0.185
					3	0	22.54	0.179
					3	1	22.59	0.182
					3	3	22.61	0.182
					6	0	21.59	0.144
			18900	1880.0	1	0	22.70	0.186
					1	2	<b>22.83</b>	<b>0.192</b>
					1	5	22.72	0.187
					3	0	22.78	0.190
					3	1	22.79	0.190
					3	3	22.80	0.191
					6	0	21.62	0.145
			19193	1909.3	1	0	22.61	0.182
					1	2	22.74	0.188
					1	5	22.58	0.181
					3	0	22.51	0.178
					3	1	22.45	0.176
					3	3	22.22	0.167
					6	0	21.64	0.146



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	1.4MHz	16QAM	18607	1850.7	1	0	22.02	0.159
					1	2	<b>22.08</b>	<b>0.161</b>
					1	5	22.00	0.158
					3	0	21.58	0.144
					3	1	21.66	0.147
					3	3	21.64	0.146
					6	0	20.54	0.113
			18900	1880.0	1	0	21.93	0.156
					1	2	22.07	0.161
					1	5	22.06	0.161
					3	0	21.66	0.147
					3	1	21.68	0.147
					3	3	21.70	0.148
					6	0	20.54	0.113
			19193	1909.3	1	0	21.92	0.156
					1	2	21.95	0.157
					1	5	21.98	0.158
					3	0	21.56	0.143
					3	1	21.53	0.142
					3	3	21.31	0.135
					6	0	20.56	0.114



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	3MHz	QPSK	18615	1851.5	1	0	22.62	0.183
					1	7	22.73	0.187
					1	14	22.53	0.179
					8	0	21.66	0.147
					8	3	21.73	0.149
					8	7	21.68	0.147
			15	0	21.71	0.148		
			1	0	22.67	0.185		
			1	7	<b>22.76</b>	<b>0.189</b>		
			1	14	22.66	0.185		
			8	0	21.71	0.148		
			8	3	21.75	0.150		
			8	7	21.64	0.146		
			15	0	21.80	0.151		
			1	0	22.50	0.178		
			1	7	22.60	0.182		
			1	14	22.58	0.181		
			8	0	21.72	0.149		
		8	3	21.75	0.150			
		8	7	21.72	0.149			
		15	0	21.69	0.148			
		1	0	21.87	0.154			
		1	7	21.89	0.155			
		1	14	21.79	0.151			
		8	0	20.62	0.115			
		8	3	20.63	0.116			
		8	7	20.61	0.115			
		15	0	20.55	0.114			
		1	0	21.84	0.153			
		1	7	<b>21.92</b>	<b>0.156</b>			
		1	14	21.84	0.153			
		8	0	20.58	0.114			
		8	3	20.60	0.115			
		8	7	20.53	0.113			
		15	0	20.50	0.112			
		1	0	21.79	0.151			
1	7	21.91	0.155					
1	14	21.88	0.154					
8	0	20.61	0.115					
8	3	20.63	0.116					
8	7	20.65	0.116					
15	0	20.56	0.114					
16QAM	18615	1851.5	1851.5	1	0	21.87	0.154	
				1	7	21.89	0.155	
				1	14	21.79	0.151	
				8	0	20.62	0.115	
				8	3	20.63	0.116	
				8	7	20.61	0.115	
	15	0	20.55	0.114				
	1	0	21.84	0.153				
	1	7	<b>21.92</b>	<b>0.156</b>				
	1	14	21.84	0.153				
	8	0	20.58	0.114				
	8	3	20.60	0.115				
	8	7	20.53	0.113				
	15	0	20.50	0.112				
	1	0	21.79	0.151				
	1	7	21.91	0.155				
	1	14	21.88	0.154				
	8	0	20.61	0.115				
8	3	20.63	0.116					
8	7	20.65	0.116					
15	0	20.56	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	5MHz	QPSK	18625	1852.5	1	0	22.77	0.189
					1	12	22.65	0.184
					1	24	22.72	0.187
					12	0	21.73	0.149
					12	6	21.75	0.150
					12	13	21.74	0.149
			25	0	21.76	0.150		
			1	0	<b>22.88</b>	<b>0.194</b>		
			1	12	22.72	0.187		
			1	24	22.76	0.189		
			12	0	21.90	0.155		
			12	6	21.84	0.153		
			12	13	21.75	0.150		
			25	0	21.84	0.153		
			1	0	22.86	0.193		
			1	12	22.62	0.183		
			1	24	22.68	0.185		
			12	0	21.78	0.151		
		12	6	21.73	0.149			
		12	13	21.70	0.148			
		25	0	21.66	0.147			
		1	0	22.05	0.160			
		1	12	21.80	0.151			
		1	24	21.93	0.156			
		12	0	20.64	0.116			
		12	6	20.69	0.117			
		12	13	20.66	0.116			
		25	0	20.65	0.116			
		1	0	22.07	0.161			
		1	12	21.87	0.154			
		1	24	21.89	0.155			
		12	0	20.78	0.120			
		12	6	20.71	0.118			
		12	13	20.61	0.115			
		25	0	20.66	0.116			
		1	0	<b>22.10</b>	<b>0.162</b>			
1	12	21.77	0.150					
1	24	21.95	0.157					
12	0	20.72	0.118					
12	6	20.63	0.116					
12	11	20.62	0.115					
25	0	20.56	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	10MHz	QPSK	18650	1855.0	1	0	22.85	0.193
					1	24	22.80	0.191
					1	49	22.83	0.192
					25	0	22.05	0.160
					25	12	21.97	0.157
					25	25	21.92	0.156
			50	0	21.96	0.157		
			1	0	<b>22.86</b>	<b>0.193</b>		
			1	24	22.78	0.190		
			1	49	22.85	0.193		
			25	0	22.03	0.160		
			25	12	21.82	0.152		
			25	25	21.82	0.152		
			50	0	21.97	0.157		
			1	0	22.85	0.193		
			1	24	22.50	0.178		
			1	49	22.60	0.182		
			25	0	21.91	0.155		
		25	12	21.72	0.149			
		25	25	21.67	0.147			
		50	0	21.72	0.149			
		1	0	22.04	0.160			
		1	24	21.98	0.158			
		1	49	22.09	0.162			
		25	0	20.94	0.124			
		25	12	20.85	0.122			
		25	25	20.77	0.119			
		50	0	20.79	0.120			
		1	0	<b>22.12</b>	<b>0.163</b>			
		1	24	21.92	0.156			
1	49	22.05	0.160					
25	0	20.84	0.121					
25	12	20.66	0.116					
25	25	20.63	0.116					
50	0	20.79	0.120					
1	0	22.01	0.159					
1	24	21.76	0.150					
1	49	21.86	0.153					
25	0	20.73	0.118					
25	12	20.55	0.114					
25	25	20.55	0.114					
50	0	20.57	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band2	15MHz	QPSK	18675	1857.5	1	0	22.70	0.186
					1	37	22.47	0.177
					1	74	22.79	0.190
					36	0	21.73	0.149
					36	19	21.79	0.151
					36	39	21.84	0.153
			75	0	21.76	0.150		
			1	0	<b>22.84</b>	<b>0.192</b>		
			1	37	22.43	0.175		
			1	74	22.78	0.190		
			36	0	21.84	0.153		
			36	19	21.85	0.153		
			36	39	21.84	0.153		
			75	0	21.89	0.155		
			1	0	22.81	0.191		
			1	37	22.34	0.171		
			1	74	22.73	0.187		
			36	0	21.82	0.152		
		36	19	21.80	0.151			
		36	39	21.78	0.151			
		75	0	21.78	0.151			
		1	0	21.96	0.157			
		1	37	21.94	0.156			
		1	74	21.95	0.157			
		36	0	20.58	0.114			
		36	19	20.63	0.116			
		36	39	20.66	0.116			
		75	0	20.67	0.117			
		1	0	21.98	0.158			
		1	37	22.01	0.159			
		1	74	22.06	0.161			
		36	0	20.64	0.116			
		36	19	20.69	0.117			
		36	39	20.69	0.117			
		75	0	20.71	0.118			
		1	0	<b>22.27</b>	<b>0.169</b>			
1	37	21.92	0.156					
1	74	22.05	0.160					
36	0	20.66	0.116					
36	19	20.59	0.115					
36	39	20.61	0.115					
75	0	20.74	0.119					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power			
					Size	Offset	(dBm)	(W)		
LTE Band2	20MHz	QPSK	18700	1860.0	1	0	22.68	0.185		
					1	49	22.60	0.182		
					1	99	22.72	0.187		
					50	0	21.90	0.155		
					50	25	21.81	0.152		
					50	50	21.92	0.156		
			100	0	21.93	0.156				
			18900	1880.0	1	0	22.77	0.189		
					1	49	22.70	0.186		
					1	99	<b>22.85</b>	<b>0.193</b>		
					50	0	21.90	0.155		
					50	25	21.83	0.152		
					50	50	21.90	0.155		
			100	0	21.99	0.158				
			19100	1900.0	1	0	22.79	0.190		
					1	49	22.58	0.181		
					1	99	22.67	0.185		
					50	0	21.75	0.150		
		50			25	21.68	0.147			
		50			50	21.79	0.151			
		100	0	21.79	0.151					
		16QAM	18700	1860.0	1	0	22.06	0.161		
					1	49	21.86	0.153		
					1	99	22.07	0.161		
					50	0	20.70	0.117		
					50	25	20.67	0.117		
					50	50	20.69	0.117		
					100	0	20.80	0.120		
					18900	1880.0	1	0	22.02	0.159
							1	49	21.88	0.154
1	99						<b>22.26</b>	<b>0.168</b>		
50	0						20.72	0.118		
50	25						20.71	0.118		
50	50		20.74	0.119						
100	0		20.76	0.119						
19100	1900.0		1	0	22.09	0.162				
			1	49	21.80	0.151				
			1	99	22.17	0.165				
			50	0	20.58	0.114				
		50	25	20.56	0.114					
		50	50	20.59	0.115					
100	0	20.67	0.117							





Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	1.4MHz	QPSK	19957	1710.7	1	0	22.67	0.185
					1	2	22.81	0.191
					1	5	22.78	0.190
					3	0	22.67	0.185
					3	1	22.69	0.186
					3	3	22.62	0.183
			6	0	21.59	0.144		
			1	0	22.79	0.190		
			1	2	<b>22.93</b>	<b>0.196</b>		
			1	5	22.84	0.192		
			3	0	22.57	0.181		
			3	1	22.61	0.182		
			3	3	22.48	0.177		
			6	0	21.66	0.147		
			1	0	22.52	0.179		
			1	2	22.80	0.191		
			1	5	22.51	0.178		
			3	0	22.14	0.164		
		3	1	22.21	0.166			
		3	3	22.64	0.184			
		6	0	21.54	0.143			
		1	0	<b>22.17</b>	<b>0.165</b>			
		1	2	22.15	0.164			
		1	5	22.12	0.163			
		3	0	21.73	0.149			
		3	1	21.78	0.151			
		3	3	21.80	0.151			
		6	0	20.69	0.117			
		1	0	22.11	0.163			
		1	2	22.13	0.163			
		1	5	22.12	0.163			
		3	0	21.82	0.152			
		3	1	21.86	0.153			
		3	3	21.73	0.149			
		6	0	20.85	0.122			
		1	0	22.08	0.161			
1	2	22.11	0.163					
1	5	22.07	0.161					
3	0	21.63	0.146					
3	1	21.71	0.148					
3	3	21.74	0.149					
6	0	20.64	0.116					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	3MHz	QPSK	19965	1711.5	1	0	22.64	0.184
					1	7	22.76	0.189
					1	14	22.69	0.186
					8	0	21.69	0.148
					8	3	21.63	0.146
					8	7	21.71	0.148
			15	0	21.71	0.148		
			1	0	22.79	0.190		
			1	7	<b>22.91</b>	<b>0.195</b>		
			1	14	22.67	0.185		
			8	0	21.72	0.149		
			8	3	21.74	0.149		
			8	7	21.75	0.150		
			15	0	21.73	0.149		
			1	0	22.50	0.178		
			1	7	22.61	0.182		
			1	14	22.57	0.181		
			8	0	21.61	0.145		
		8	3	21.62	0.145			
		8	7	21.60	0.145			
		15	0	21.61	0.145			
		1	0	22.02	0.159			
		1	7	22.04	0.160			
		1	14	22.04	0.160			
		8	0	20.69	0.117			
		8	3	20.67	0.117			
		8	7	20.73	0.118			
		15	0	20.67	0.117			
		1	0	22.10	0.162			
		1	7	<b>22.13</b>	<b>0.163</b>			
		1	14	21.93	0.156			
		8	0	20.97	0.125			
		8	3	21.12	0.129			
		8	7	21.07	0.128			
		15	0	20.80	0.120			
		1	0	21.95	0.157			
1	7	21.99	0.158					
1	14	21.86	0.153					
8	0	20.66	0.116					
8	3	20.70	0.117					
8	7	20.64	0.116					
15	0	20.58	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	5MHz	QPSK	19975	1712.5	1	0	22.74	0.188
					1	12	22.63	0.183
					1	24	22.76	0.189
					12	0	21.77	0.150
					12	6	21.75	0.150
					12	13	21.70	0.148
			25	0	21.71	0.148		
			1	0	<b>22.89</b>	<b>0.195</b>		
			1	12	22.72	0.187		
			1	24	22.72	0.187		
			12	0	21.82	0.152		
			12	6	21.77	0.150		
			12	13	21.70	0.148		
			25	0	21.75	0.150		
			1	0	22.71	0.187		
			1	12	22.53	0.179		
			1	24	22.63	0.183		
			12	0	21.67	0.147		
		12	6	21.63	0.146			
		12	13	21.61	0.145			
		25	0	21.61	0.145			
		1	0	21.99	0.158			
		1	12	21.96	0.157			
		1	24	22.01	0.159			
		12	0	20.81	0.121			
		12	6	20.78	0.120			
		12	13	20.75	0.119			
		25	0	20.72	0.118			
		1	0	21.96	0.157			
		1	12	21.91	0.155			
		1	24	<b>22.06</b>	<b>0.161</b>			
		12	0	21.13	0.130			
		12	6	21.09	0.129			
		12	13	20.97	0.125			
		25	0	20.85	0.122			
		1	0	21.94	0.156			
1	12	21.84	0.153					
1	24	22.02	0.159					
12	0	20.76	0.119					
12	6	20.68	0.117					
12	11	20.68	0.117					
25	0	20.64	0.116					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	10MHz	QPSK	20000	1715.0	1	0	22.79	0.190
					1	24	22.63	0.183
					1	49	22.83	0.192
					25	0	21.76	0.150
					25	12	21.76	0.150
					25	25	21.77	0.150
			20175	1732.5	50	0	21.77	0.150
					1	0	22.82	0.191
					1	24	22.69	0.186
					1	49	<b>22.88</b>	<b>0.194</b>
					25	0	21.75	0.150
					25	12	21.81	0.152
			20350	1750.0	25	25	21.77	0.150
					50	0	21.76	0.150
					1	0	22.64	0.184
					1	24	22.45	0.176
					1	49	22.71	0.187
					25	0	21.63	0.146
		16QAM	20000	1715.0	25	12	21.59	0.144
					25	25	21.59	0.144
					50	0	21.66	0.147
					1	0	<b>22.09</b>	<b>0.162</b>
					1	24	22.03	0.160
					1	49	22.08	0.161
			20175	1732.5	25	0	20.75	0.119
					25	12	20.79	0.120
					25	25	20.73	0.118
					50	0	20.71	0.118
					1	0	22.01	0.159
					1	24	21.98	0.158
20350	1750.0	1	49	22.05	0.160			
		25	0	20.74	0.119			
		25	12	20.83	0.121			
		25	25	20.81	0.121			
		50	0	20.73	0.118			
		1	0	22.03	0.160			
20350	1750.0	1	24	21.78	0.151			
		1	49	22.02	0.159			
		25	0	20.65	0.116			
		25	12	20.58	0.114			
		25	25	20.58	0.114			
		50	0	20.64	0.116			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	15MHz	QPSK	20025	1717.5	1	0	22.62	0.183
					1	37	22.75	0.188
					1	74	22.67	0.185
					36	0	21.86	0.153
					36	19	21.94	0.156
					36	39	21.87	0.154
			75	0	21.90	0.155		
			1	0	22.69	0.186		
			1	37	<b>22.80</b>	<b>0.191</b>		
			1	74	22.58	0.181		
			36	0	21.90	0.155		
			36	19	22.04	0.160		
			36	39	21.89	0.155		
			75	0	21.91	0.155		
			1	0	22.70	0.186		
			1	37	22.77	0.189		
			1	74	22.47	0.177		
			36	0	21.90	0.155		
		36	19	21.92	0.156			
		36	39	21.72	0.149			
		75	0	21.88	0.154			
		1	0	21.65	0.146			
		1	37	21.95	0.157			
		1	74	21.70	0.148			
		36	0	20.55	0.114			
		36	19	20.64	0.116			
		36	39	20.55	0.114			
		75	0	20.63	0.116			
		1	0	21.74	0.149			
		1	37	<b>21.96</b>	<b>0.157</b>			
1	74	21.62	0.145					
36	0	20.51	0.112					
36	19	20.69	0.117					
36	39	20.53	0.113					
75	0	20.56	0.114					
1	0	21.74	0.149					
1	37	21.94	0.156					
1	74	21.55	0.143					
36	0	20.61	0.115					
36	19	20.62	0.115					
36	39	20.41	0.110					
75	0	20.57	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band4	20MHz	QPSK	20050	1720.0	1	0	22.42	0.175
					1	49	22.75	0.188
					1	99	22.45	0.176
					50	0	21.67	0.147
					50	25	21.75	0.150
					50	50	21.64	0.146
			100	0	21.66	0.147		
			20175	1732.5	1	0	22.50	0.178
					1	49	22.77	0.189
					1	99	22.47	0.177
					50	0	21.67	0.147
					50	25	21.75	0.150
					50	50	21.69	0.148
			100	0	21.69	0.148		
			20300	1745.0	1	0	22.67	0.185
					1	49	<b>22.81</b>	<b>0.191</b>
					1	99	22.45	0.176
					50	0	21.80	0.151
		50			25	21.81	0.152	
		50			50	21.70	0.148	
		100	0	21.72	0.149			
		16QAM	20050	1720.0	1	0	21.62	0.145
					1	49	21.97	0.157
					1	99	21.67	0.147
					50	0	20.54	0.113
					50	25	20.60	0.115
					50	50	20.43	0.110
			100	0	20.56	0.114		
			20175	1732.5	1	0	21.68	0.147
					1	49	21.93	0.156
1	99				21.66	0.147		
50	0				20.51	0.112		
50	25				20.61	0.115		
50	50	20.47			0.111			
100	0	20.49	0.112					
20300	1745.0	1	0	21.81	0.152			
		1	49	<b>22.01</b>	<b>0.159</b>			
		1	99	21.67	0.147			
		50	0	20.69	0.117			
		50	25	20.70	0.117			
		50	50	20.51	0.112			
100	0	20.58	0.114					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	1.4MHz	QPSK	23017	699.7	1	0	22.58	0.181
					1	2	22.59	0.182
					1	5	22.57	0.181
					3	0	22.58	0.181
					3	1	22.54	0.179
					3	3	22.37	0.173
			6	0	21.41	0.138		
			1	0	<b>22.74</b>	<b>0.188</b>		
			1	2	22.68	0.185		
			1	5	22.70	0.186		
			3	0	22.45	0.176		
			3	1	22.64	0.184		
			3	3	22.38	0.173		
			6	0	21.50	0.141		
			1	0	22.59	0.182		
			1	2	22.68	0.185		
			1	5	22.51	0.178		
			3	0	22.32	0.171		
		3	1	22.47	0.177			
		3	3	22.31	0.170			
		6	0	21.49	0.141			
		1	0	22.04	0.160			
		1	2	22.01	0.159			
		1	5	22.00	0.158			
		3	0	21.28	0.134			
		3	1	21.26	0.134			
		3	3	21.29	0.135			
		6	0	20.84	0.121			
		1	0	22.15	0.164			
		1	2	<b>22.17</b>	<b>0.165</b>			
		1	5	22.16	0.164			
		3	0	21.74	0.149			
		3	1	21.95	0.157			
		3	3	21.65	0.146			
		6	0	20.84	0.121			
		1	0	22.15	0.164			
1	2	22.13	0.163					
1	5	22.14	0.164					
3	0	21.38	0.137					
3	1	21.50	0.141					
3	3	21.84	0.153					
6	0	20.84	0.121					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	3MHz	QPSK	23025	700.5	1	0	22.49	0.177
					1	7	22.69	0.186
					1	14	<b>22.72</b>	<b>0.187</b>
					8	0	21.56	0.143
					8	3	21.60	0.145
					8	7	21.68	0.147
			15	0	21.63	0.146		
			23095	707.5	1	0	22.47	0.177
					1	7	22.54	0.179
					1	14	22.61	0.182
					8	0	21.62	0.145
					8	3	21.66	0.147
					8	7	21.51	0.142
			15	0	21.66	0.147		
			23165	714.5	1	0	22.49	0.177
					1	7	22.50	0.178
					1	14	22.44	0.175
					8	0	21.53	0.142
		8			3	21.61	0.145	
		8			7	21.51	0.142	
		15	0	21.48	0.141			
		16QAM	23025	700.5	1	0	22.05	0.160
					1	7	<b>22.15</b>	<b>0.164</b>
					1	14	22.14	0.164
					8	0	20.72	0.118
					8	3	20.72	0.118
					8	7	20.76	0.119
			15	0	20.72	0.118		
			23095	707.5	1	0	22.07	0.161
					1	7	22.14	0.164
1	14				22.13	0.163		
8	0				20.74	0.119		
8	3				20.74	0.119		
8	7	20.60			0.115			
15	0	20.65	0.116					
23165	714.5	1	0	22.01	0.159			
		1	7	21.94	0.156			
		1	14	22.11	0.163			
		8	0	20.54	0.113			
		8	3	20.61	0.115			
		8	7	20.58	0.114			
15	0	20.59	0.115					





Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	5MHz	QPSK	23035	701.5	1	0	22.61	0.182
					1	12	22.57	0.181
					1	24	<b>22.79</b>	<b>0.190</b>
					12	0	21.67	0.147
					12	6	21.89	0.155
					12	13	21.73	0.149
			25	0	21.75	0.150		
			1	0	22.68	0.185		
			1	12	22.72	0.187		
			1	24	22.74	0.188		
			12	0	21.52	0.142		
			12	6	21.56	0.143		
			12	13	21.67	0.147		
			25	0	21.83	0.152		
			1	0	22.64	0.184		
			1	12	22.43	0.175		
			1	24	22.78	0.190		
			12	0	21.70	0.148		
		12	6	21.68	0.147			
		12	13	21.69	0.148			
		25	0	21.68	0.147			
		1	0	22.10	0.162			
		1	12	21.90	0.155			
		1	24	22.05	0.160			
		12	0	20.75	0.119			
		12	6	20.86	0.122			
		12	13	20.83	0.121			
		25	0	20.77	0.119			
		1	0	22.13	0.163			
		1	12	21.94	0.156			
		1	24	<b>22.14</b>	<b>0.164</b>			
		12	0	20.67	0.117			
		12	6	20.69	0.117			
		12	13	20.76	0.119			
		25	0	20.87	0.122			
		1	0	22.15	0.164			
1	12	22.06	0.161					
1	24	22.13	0.163					
12	0	20.81	0.121					
12	6	20.74	0.119					
12	11	20.86	0.122					
25	0	20.78	0.120					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band12	10MHz	QPSK	23060	704.0	1	0	22.69	0.186
					1	24	22.72	0.187
					1	49	22.80	0.191
					25	0	21.50	0.141
					25	12	21.59	0.144
					25	25	21.84	0.153
			23095	707.5	50	0	21.65	0.146
					1	0	22.65	0.184
					1	24	22.77	0.189
					1	49	<b>22.85</b>	<b>0.193</b>
					25	0	21.56	0.143
					25	12	21.90	0.155
			23130	711.0	25	25	21.75	0.150
					50	0	21.94	0.156
					1	0	22.76	0.189
					1	24	22.72	0.187
					1	49	22.82	0.191
					25	0	21.85	0.153
		16QAM	23060	704.0	25	12	21.71	0.148
					25	25	21.75	0.150
					50	0	21.86	0.153
					1	0	22.01	0.159
					1	24	22.11	0.163
					1	49	<b>22.14</b>	<b>0.164</b>
			23095	707.5	25	0	20.83	0.121
					25	12	20.97	0.125
					25	25	21.22	0.132
					50	0	20.91	0.123
					1	0	21.91	0.155
					1	24	22.15	0.164
23130	711.0	1	49	22.11	0.163			
		25	0	20.88	0.122			
		25	12	20.84	0.121			
		25	25	20.71	0.118			
		50	0	20.87	0.122			
		1	0	22.07	0.161			
23060	704.0	1	24	22.04	0.160			
		1	49	22.08	0.161			
		25	0	20.78	0.120			
		25	12	20.70	0.117			
		25	25	20.84	0.121			
		50	0	20.79	0.120			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band17	5MHz	QPSK	23755	706.5	1	0	22.57	0.181
					1	12	22.60	0.182
					1	24	<b>22.85</b>	<b>0.193</b>
					12	0	21.73	0.149
					12	6	21.81	0.152
					12	13	21.80	0.151
			25	0	21.88	0.154		
			1	0	22.75	0.188		
			1	12	22.68	0.185		
			1	24	22.81	0.191		
			12	0	21.86	0.153		
			12	6	21.92	0.156		
			12	13	21.79	0.151		
			25	0	21.88	0.154		
			1	0	22.72	0.187		
			1	12	22.63	0.183		
			1	24	22.77	0.189		
			12	0	21.79	0.151		
		12	6	21.84	0.153			
		12	13	21.90	0.155			
		25	0	21.84	0.153			
		1	0	22.31	0.170			
		1	12	22.13	0.163			
		1	24	<b>22.37</b>	<b>0.173</b>			
		12	0	20.76	0.119			
		12	6	20.83	0.121			
		12	13	20.96	0.125			
		25	0	20.88	0.122			
		1	0	22.38	0.173			
		1	12	22.12	0.163			
		1	24	22.34	0.171			
		12	0	20.95	0.124			
		12	6	20.97	0.125			
		12	13	20.90	0.123			
		25	0	20.83	0.121			
		1	0	22.22	0.167			
1	12	22.21	0.166					
1	24	22.25	0.168					
12	0	20.91	0.123					
12	6	20.87	0.122					
12	11	20.97	0.125					
25	0	20.96	0.125					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band17	10MHz	QPSK	23780	709.0	1	0	22.55	0.180
					1	24	22.61	0.182
					1	49	22.57	0.181
					25	0	21.75	0.150
					25	12	21.84	0.153
					25	25	21.69	0.148
			23790	710.0	50	0	21.83	0.152
					1	0	22.54	0.179
					1	24	22.58	0.181
					1	49	22.54	0.179
					25	0	21.87	0.154
					25	12	21.78	0.151
			23800	711.0	25	25	21.71	0.148
					50	0	21.84	0.153
					1	0	22.56	0.180
					1	24	22.54	0.179
					1	49	<b>22.70</b>	<b>0.186</b>
					25	0	21.87	0.154
		16QAM	23780	709.0	25	12	21.77	0.150
					25	25	21.85	0.153
					50	0	21.90	0.155
					1	0	22.02	0.159
					1	24	22.05	0.160
					1	49	22.16	0.164
			23790	710.0	25	0	20.61	0.115
					25	12	20.83	0.121
					25	25	20.69	0.117
					50	0	20.88	0.122
					1	0	21.95	0.157
					1	24	22.02	0.159
23800	711.0	1	49	<b>22.24</b>	<b>0.167</b>			
		25	0	20.86	0.122			
		25	12	20.76	0.119			
		25	25	20.76	0.119			
		50	0	20.88	0.122			
		1	0	22.07	0.161			
23780	709.0	1	24	22.08	0.161			
		1	49	22.21	0.166			
		25	0	20.87	0.122			
		25	12	20.73	0.118			
		25	25	20.90	0.123			
		50	0	20.93	0.124			



### Effective Radiated Power / Equivalent Isotropic Radiated Power

Band 2								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4M	QPSK	1850.7	H	12.91	6.54	19.45	0.088	< 2
			V	14.65	6.54	21.19	0.132	< 2
		1880.0	H	13.30	6.66	19.96	0.099	< 2
			V	15.41	6.66	<b>22.07</b>	<b>0.161</b>	< 2
		1909.3	H	12.84	6.77	19.61	0.091	< 2
			V	14.90	6.77	21.67	0.147	< 2
16QAM	1880.0	H	12.45	6.66	19.11	0.081	< 2	
		V	14.55	6.66	21.21	0.132	< 2	
3M	QPSK	1851.5	H	13.26	6.54	19.80	0.095	< 2
			V	15.01	6.54	21.55	0.143	< 2
		1880.0	H	13.07	6.65	19.72	0.094	< 2
			V	15.12	6.65	<b>21.77</b>	<b>0.150</b>	< 2
		1908.5	H	12.70	6.78	19.48	0.089	< 2
			V	14.87	6.78	21.65	0.146	< 2
16QAM	1880.0	H	12.33	6.65	18.98	0.079	< 2	
		V	14.25	6.65	20.90	0.123	< 2	
5M	QPSK	1852.5	H	13.27	6.54	19.81	0.096	< 2
			V	15.09	6.54	21.63	0.146	< 2
		1880.0	H	12.95	6.65	19.60	0.091	< 2
			V	15.14	6.65	21.79	0.151	< 2
		1907.5	H	12.96	6.77	19.73	0.094	< 2
			V	15.05	6.77	<b>21.82</b>	<b>0.152</b>	< 2
16QAM	1880.0	H	11.91	6.65	18.56	0.072	< 2	
		V	14.28	6.65	20.93	0.124	< 2	
10M	QPSK	1855.0	H	12.84	6.54	19.38	0.087	< 2
			V	15.17	6.54	21.71	0.148	< 2
		1880.0	H	13.12	6.65	19.77	0.095	< 2
			V	15.43	6.65	<b>22.08</b>	<b>0.161</b>	< 2
		1905.0	H	13.00	6.74	19.74	0.094	< 2
			V	15.05	6.74	21.79	0.151	< 2
16QAM	1880.0	H	12.04	6.65	18.69	0.074	< 2	
		V	14.37	6.65	21.02	0.126	< 2	
15M	QPSK	1857.5	H	13.20	6.54	19.74	0.094	< 2
			V	15.33	6.55	21.88	0.154	< 2
		1880.0	H	12.97	6.64	19.61	0.091	< 2
			V	15.19	6.65	21.84	0.153	< 2
		1902.5	H	13.13	6.73	19.86	0.097	< 2
			V	15.27	6.73	<b>22.00</b>	<b>0.158</b>	< 2
16QAM	1880.0	H	11.90	6.65	18.55	0.072	< 2	
		V	14.22	6.65	20.87	0.122	< 2	
20M	QPSK	1860.0	H	13.35	6.55	19.90	0.098	< 2
			V	15.50	6.55	22.05	0.160	< 2
		1880.0	H	12.93	6.63	19.56	0.090	< 2
			V	14.90	6.63	21.53	0.142	< 2
		1900.0	H	12.90	6.71	19.61	0.091	< 2
			V	15.46	6.71	<b>22.17</b>	<b>0.165</b>	< 2
16QAM	1880.0	H	11.87	6.63	18.50	0.071	< 2	
		V	13.81	6.63	20.44	0.111	< 2	



Band 4								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4M	QPSK	1710.7	H	14.83	5.97	20.80	0.120	< 1
			V	16.96	5.97	<b>22.93</b>	<b>0.196</b>	< 1
		1732.5	H	14.74	6.06	20.80	0.120	< 1
			V	16.51	6.06	22.57	0.181	< 1
		1754.3	H	14.43	6.15	20.58	0.114	< 1
			V	16.25	6.15	22.40	0.174	< 1
16QAM	1732.5	H	13.35	6.06	19.41	0.087	< 1	
		V	15.09	6.06	21.15	0.130	< 1	
3M	QPSK	1711.5	H	14.52	5.98	20.50	0.112	< 1
			V	16.67	5.97	22.64	0.184	< 1
		1732.5	H	14.81	6.06	20.87	0.122	< 1
			V	16.66	6.06	<b>22.72</b>	<b>0.187</b>	< 1
		1753.5	H	14.38	6.14	20.52	0.113	< 1
			V	16.39	6.14	22.53	0.179	< 1
16QAM	1732.5	H	12.85	6.05	18.90	0.078	< 1	
		V	15.11	6.05	21.16	0.131	< 1	
5M	QPSK	1712.5	H	14.50	5.98	20.48	0.112	< 1
			V	16.42	5.97	22.39	0.173	< 1
		1732.5	H	14.70	6.05	20.75	0.119	< 1
			V	16.74	6.05	<b>22.79</b>	<b>0.190</b>	< 1
		1752.5	H	14.35	6.14	20.49	0.112	< 1
			V	16.30	6.14	22.44	0.175	< 1
16QAM	1732.5	H	12.89	6.05	18.94	0.078	< 1	
		V	15.05	6.06	21.11	0.129	< 1	
10M	QPSK	1715.0	H	14.26	5.98	20.24	0.106	< 1
			V	16.43	5.98	22.41	0.174	< 1
		1732.5	H	14.44	6.04	20.48	0.112	< 1
			V	16.43	6.04	<b>22.47</b>	<b>0.177</b>	< 1
		1750.0	H	14.36	6.12	20.48	0.112	< 1
			V	16.31	6.12	22.43	0.175	< 1
16QAM	1732.5	H	13.12	6.05	19.17	0.083	< 1	
		V	15.03	6.05	21.08	0.128	< 1	
15M	QPSK	1717.5	H	14.27	5.98	20.25	0.106	< 1
			V	16.30	5.98	22.28	0.169	< 1
		1732.5	H	14.64	6.04	20.68	0.117	< 1
			V	16.68	6.04	<b>22.72</b>	<b>0.187</b>	< 1
		1747.5	H	14.45	6.09	20.54	0.113	< 1
			V	16.39	6.09	22.48	0.177	< 1
16QAM	1732.5	H	13.33	6.04	19.37	0.086	< 1	
		V	15.24	6.04	21.28	0.134	< 1	
20M	QPSK	1720.0	H	14.31	5.98	20.29	0.107	< 1
			V	16.20	5.98	22.18	0.165	< 1
		1732.5	H	14.56	6.03	20.59	0.115	< 1
			V	16.79	6.03	<b>22.82</b>	<b>0.191</b>	< 1
		1745.0	H	14.51	6.08	20.59	0.115	< 1
			V	16.57	6.08	22.65	0.184	< 1
16QAM	1732.5	H	13.28	6.04	19.32	0.086	< 1	
		V	15.37	6.04	21.41	0.138	< 1	



Band 12								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
1.4M	QPSK	699.7	H	11.82	8.88	20.70	0.117	< 3
			V	13.77	8.88	22.65	0.184	< 3
		707.5	H	11.58	9.03	20.61	0.115	< 3
			V	13.77	9.03	<b>22.80</b>	<b>0.191</b>	< 3
		715.3	H	11.31	9.17	20.48	0.112	< 3
			V	13.32	9.16	22.48	0.177	< 3
	16QAM	707.5	H	9.88	9.03	18.91	0.078	< 3
			V	12.23	9.03	21.26	0.134	< 3
3M	QPSK	700.5	H	11.68	8.88	20.56	0.114	< 3
			V	13.59	8.88	22.47	0.177	< 3
		707.5	H	11.46	9.01	20.47	0.111	< 3
			V	13.32	9.01	22.33	0.171	< 3
		714.5	H	11.35	9.14	20.49	0.112	< 3
			V	13.45	9.14	<b>22.59</b>	<b>0.182</b>	< 3
	16QAM	707.5	H	10.40	9.01	19.41	0.087	< 3
			V	11.92	9.01	20.93	0.124	< 3
5M	QPSK	701.5	H	11.59	8.88	20.47	0.111	< 3
			V	13.83	8.88	22.71	0.187	< 3
		707.5	H	11.88	8.98	20.86	0.122	< 3
			V	13.60	8.99	22.59	0.182	< 3
		713.5	H	11.50	9.10	20.60	0.115	< 3
			V	13.69	9.09	<b>22.78</b>	<b>0.190</b>	< 3
	16QAM	707.5	H	10.13	8.99	19.12	0.082	< 3
			V	11.98	8.99	20.97	0.125	< 3
10M	QPSK	704.0	H	11.84	8.88	20.72	0.118	< 3
			V	13.53	8.88	22.41	0.174	< 3
		707.5	H	11.88	8.95	20.83	0.121	< 3
			V	13.97	8.95	<b>22.92</b>	<b>0.196</b>	< 3
		711.0	H	11.61	9.01	20.62	0.115	< 3
			V	13.63	9.01	22.64	0.184	< 3
	16QAM	707.5	H	10.22	8.95	19.17	0.083	< 3
			V	12.19	8.95	21.14	0.130	< 3



Band 17								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
5M	QPSK	706.5	H	11.94	8.98	20.92	0.124	< 3
			V	13.90	8.98	<b>22.88</b>	<b>0.194</b>	< 3
		710.0	H	11.64	9.04	20.68	0.117	< 3
			V	13.71	9.04	22.75	0.188	< 3
		713.5	H	11.57	9.10	20.67	0.117	< 3
			V	13.50	9.09	22.59	0.182	< 3
	16QAM	710.0	H	10.25	9.04	19.29	0.085	< 3
			V	12.14	9.04	21.18	0.131	< 3
10M	QPSK	709.0	H	11.79	8.98	20.77	0.119	< 3
			V	13.85	8.98	22.83	0.192	< 3
		710.0	H	11.58	8.99	20.57	0.114	< 3
			V	13.42	8.99	22.41	0.174	< 3
		711.0	H	11.50	9.01	20.51	0.112	< 3
			V	13.88	9.01	<b>22.89</b>	<b>0.195</b>	< 3
	16QAM	710.0	H	9.98	8.99	18.97	0.079	< 3
			V	11.98	8.99	20.97	0.125	< 3





## Radiated Emission

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1850.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH18607	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3701.400	-43.88	-0.51	-44.39	-13.00	-31.39	peak
2	5552.100	-36.29	3.59	-32.70	-13.00	-19.70	peak
3	7402.800	-49.65	9.70	-39.95	-13.00	-26.95	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1850.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH18607	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3701.400	-42.61	-0.51	-43.12	-13.00	-30.12	peak
2	5552.100	-39.81	3.59	-36.22	-13.00	-23.22	peak
3	7402.800	-49.77	9.70	-40.07	-13.00	-27.07	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-46.32	-0.37	-46.69	-13.00	-33.69	peak
2	5640.000	-40.03	3.79	-36.24	-13.00	-23.24	peak
3	7520.000	-48.38	10.12	-38.26	-13.00	-25.26	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-42.86	-0.37	-43.23	-13.00	-30.23	peak
2	5640.000	-37.66	3.79	-33.87	-13.00	-20.87	peak
3	7520.000	-49.26	10.12	-39.14	-13.00	-26.14	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1909.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH19193	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3818.600	-42.02	-0.21	-42.23	-13.00	-29.23	peak
2	5727.900	-36.53	4.00	-32.53	-13.00	-19.53	peak
3	7637.200	-44.52	10.38	-34.14	-13.00	-21.14	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1909.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M_QPSK_CH19193	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3818.600	-41.33	-0.21	-41.54	-13.00	-28.54	peak
2	5727.900	-41.23	4.00	-37.23	-13.00	-24.23	peak
3	7637.200	-45.97	10.38	-35.59	-13.00	-22.59	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-46.32	-0.37	-46.69	-13.00	-33.69	peak
2	5640.000	-41.03	3.79	-37.24	-13.00	-24.24	peak
3	7520.000	-49.38	10.12	-39.26	-13.00	-26.26	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_1.4M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-43.86	-0.37	-44.23	-13.00	-31.23	peak
2	5640.000	-38.66	3.79	-34.87	-13.00	-21.87	peak
3	7520.000	-50.26	10.12	-40.14	-13.00	-27.14	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1851.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH18615	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3703.000	-44.49	-0.51	-45.00	-13.00	-32.00	peak
2	5554.500	-38.15	3.60	-34.55	-13.00	-21.55	peak
3	7406.000	-43.01	9.72	-33.29	-13.00	-20.29	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1851.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH18615	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3703.000	-42.82	-0.51	-43.33	-13.00	-30.33	peak
2	5554.500	-34.30	3.60	-30.70	-13.00	-17.70	peak
3	7406.000	-47.66	9.72	-37.94	-13.00	-24.94	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-44.95	-0.37	-45.32	-13.00	-32.32	peak
2	5640.000	-36.84	3.79	-33.05	-13.00	-20.05	peak
3	7520.000	-48.90	10.12	-38.78	-13.00	-25.78	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-41.53	-0.37	-41.90	-13.00	-28.90	peak
2	5640.000	-35.31	3.79	-31.52	-13.00	-18.52	peak
3	7520.000	-48.88	10.12	-38.76	-13.00	-25.76	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1908.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH19185	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3817.000	-43.15	-0.21	-43.36	-13.00	-30.36	peak
2	5725.500	-35.88	3.99	-31.89	-13.00	-18.89	peak
3	7634.000	-49.45	10.37	-39.08	-13.00	-26.08	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1908.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M_QPSK_CH19185	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3817.000	-41.86	-0.21	-42.07	-13.00	-29.07	peak
2	5725.500	-41.14	3.99	-37.15	-13.00	-24.15	peak
3	7634.000	-46.67	10.37	-36.30	-13.00	-23.30	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-44.52	-0.37	-44.89	-13.00	-31.89	peak
2	5640.000	-38.58	3.79	-34.79	-13.00	-21.79	peak
3	7520.000	-47.09	10.12	-36.97	-13.00	-23.97	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_3M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-42.75	-0.37	-43.12	-13.00	-30.12	peak
2	5640.000	-39.71	3.79	-35.92	-13.00	-22.92	peak
3	7520.000	-48.79	10.12	-38.67	-13.00	-25.67	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1852.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH18625	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3705.000	-44.14	-0.51	-44.65	-13.00	-31.65	peak
2	5557.500	-33.25	3.61	-29.64	-13.00	-16.64	peak
3	7410.000	-41.85	9.72	-32.13	-13.00	-19.13	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1852.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH18625	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3705.000	-40.89	-0.51	-41.40	-13.00	-28.40	peak
2	5557.500	-36.99	3.61	-33.38	-13.00	-20.38	peak
3	7410.000	-47.99	9.72	-38.27	-13.00	-25.27	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-46.76	-0.37	-47.13	-13.00	-34.13	peak
2	5640.000	-36.03	3.79	-32.24	-13.00	-19.24	peak
3	7520.000	-45.72	10.12	-35.60	-13.00	-22.60	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-40.99	-0.37	-41.36	-13.00	-28.36	peak
2	5640.000	-35.38	3.79	-31.59	-13.00	-18.59	peak
3	7520.000	-49.00	10.12	-38.88	-13.00	-25.88	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1907.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH19175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.000	-43.20	-0.22	-43.42	-13.00	-30.42	peak
2	5722.500	-38.28	3.99	-34.29	-13.00	-21.29	peak
3	7630.000	-50.24	10.37	-39.87	-13.00	-26.87	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1907.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M_QPSK_CH19175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3815.000	-42.86	-0.22	-43.08	-13.00	-30.08	peak
2	5722.500	-36.44	3.99	-32.45	-13.00	-19.45	peak
3	7630.000	-47.20	10.37	-36.83	-13.00	-23.83	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-43.45	-0.37	-43.82	-13.00	-30.82	peak
2	5640.000	-40.60	3.79	-36.81	-13.00	-23.81	peak
3	7520.000	-49.88	10.12	-39.76	-13.00	-26.76	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_5M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-44.07	-0.37	-44.44	-13.00	-31.44	peak
2	5640.000	-38.29	3.79	-34.50	-13.00	-21.50	peak
3	7520.000	-46.99	10.12	-36.87	-13.00	-23.87	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1855MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH18650	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3710.000	-43.63	-0.49	-44.12	-13.00	-31.12	peak
2	5565.000	-35.88	3.62	-32.26	-13.00	-19.26	peak
3	7420.000	-46.24	9.76	-36.48	-13.00	-23.48	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1855MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH18650	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3710.000	-42.14	-0.49	-42.63	-13.00	-29.63	peak
2	5565.000	-32.52	3.62	-28.90	-13.00	-15.90	peak
3	7420.000	-45.76	9.76	-36.00	-13.00	-23.00	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-45.79	-0.37	-46.16	-13.00	-33.16	peak
2	5640.000	-38.49	3.79	-34.70	-13.00	-21.70	peak
3	7520.000	-47.54	10.12	-37.42	-13.00	-24.42	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-41.05	-0.37	-41.42	-13.00	-28.42	peak
2	5640.000	-39.35	3.79	-35.56	-13.00	-22.56	peak
3	7520.000	-49.05	10.12	-38.93	-13.00	-25.93	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1905MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH19150	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3810.000	-46.80	-0.23	-47.03	-13.00	-34.03	peak
2	5715.000	-35.92	3.97	-31.95	-13.00	-18.95	peak
3	7620.000	-47.10	10.34	-36.76	-13.00	-23.76	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1905MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M_QPSK_CH19150	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3810.000	-41.82	-0.23	-42.05	-13.00	-29.05	peak
2	5715.000	-36.24	3.97	-32.27	-13.00	-19.27	peak
3	7620.000	-46.17	10.34	-35.83	-13.00	-22.83	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-45.11	-0.37	-45.48	-13.00	-32.48	peak
2	5640.000	-37.68	3.79	-33.89	-13.00	-20.89	peak
3	7520.000	-45.92	10.12	-35.80	-13.00	-22.80	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_10M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-42.06	-0.37	-42.43	-13.00	-29.43	peak
2	5640.000	-41.32	3.79	-37.53	-13.00	-24.53	peak
3	7520.000	-49.49	10.12	-39.37	-13.00	-26.37	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1857.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH18675	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3715.000	-45.96	-0.49	-46.45	-13.00	-33.45	peak
2	5572.500	-36.76	3.64	-33.12	-13.00	-20.12	peak
3	7430.000	-41.98	9.82	-32.16	-13.00	-19.16	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1857.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH18675	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3715.000	-41.49	-0.49	-41.98	-13.00	-28.98	peak
2	5572.500	-38.45	3.64	-34.81	-13.00	-21.81	peak
3	7430.000	-47.61	9.82	-37.79	-13.00	-24.79	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-45.23	-0.37	-45.60	-13.00	-32.60	peak
2	5640.000	-34.37	3.79	-30.58	-13.00	-17.58	peak
3	7520.000	-45.15	10.12	-35.03	-13.00	-22.03	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-38.85	-0.37	-39.22	-13.00	-26.22	peak
2	5640.000	-37.35	3.79	-33.56	-13.00	-20.56	peak
3	7520.000	-49.34	10.12	-39.22	-13.00	-26.22	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1902.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH19125	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3805.000	-44.94	-0.24	-45.18	-13.00	-32.18	peak
2	5707.500	-36.74	3.95	-32.79	-13.00	-19.79	peak
3	7610.000	-46.39	10.32	-36.07	-13.00	-23.07	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1902.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M_QPSK_CH19125	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3805.000	-43.74	-0.24	-43.98	-13.00	-30.98	peak
2	5707.500	-37.84	3.95	-33.89	-13.00	-20.89	peak
3	7610.000	-49.31	10.32	-38.99	-13.00	-25.99	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-47.15	-0.37	-47.52	-13.00	-34.52	peak
2	5640.000	-37.49	3.79	-33.70	-13.00	-20.70	peak
3	7520.000	-45.11	10.12	-34.99	-13.00	-21.99	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_15M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-41.22	-0.37	-41.59	-13.00	-28.59	peak
2	5640.000	-40.59	3.79	-36.80	-13.00	-23.80	peak
3	7520.000	-49.62	10.12	-39.50	-13.00	-26.50	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1860MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH18700	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-44.75	-0.47	-45.22	-13.00	-32.22	peak
2	5580.000	-33.49	3.65	-29.84	-13.00	-16.84	peak
3	7440.000	-48.56	9.85	-38.71	-13.00	-25.71	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1860MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH18700	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3720.000	-39.69	-0.47	-40.16	-13.00	-27.16	peak
2	5580.000	-38.51	3.65	-34.86	-13.00	-21.86	peak
3	7440.000	-48.97	9.85	-39.12	-13.00	-26.12	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-47.19	-0.37	-47.56	-13.00	-34.56	peak
2	5640.000	-40.28	3.79	-36.49	-13.00	-23.49	peak
3	7520.000	-46.53	10.12	-36.41	-13.00	-23.41	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-40.08	-0.37	-40.45	-13.00	-27.45	peak
2	5640.000	-41.77	3.79	-37.98	-13.00	-24.98	peak
3	7520.000	-48.62	10.12	-38.50	-13.00	-25.50	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1900MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH19100	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3800.000	-45.78	-0.26	-46.04	-13.00	-33.04	peak
2	5700.000	-39.23	3.92	-35.31	-13.00	-22.31	peak
3	7600.000	-41.32	10.30	-31.02	-13.00	-18.02	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1900MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M_QPSK_CH19100	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3800.000	-42.14	-0.26	-42.40	-13.00	-29.40	peak
2	5700.000	-38.81	3.92	-34.89	-13.00	-21.89	peak
3	7600.000	-47.94	10.30	-37.64	-13.00	-24.64	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-45.86	-0.37	-46.23	-13.00	-33.23	peak
2	5640.000	-39.99	3.79	-36.20	-13.00	-23.20	peak
3	7520.000	-46.96	10.12	-36.84	-13.00	-23.84	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1880MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 2_20M-16QAM_CH18900	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-41.45	-0.37	-41.82	-13.00	-28.82	peak
2	5640.000	-41.48	3.79	-37.69	-13.00	-24.69	peak
3	7520.000	-49.17	10.12	-39.05	-13.00	-26.05	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1710.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH19957	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3421.400	-44.49	-1.18	-45.67	-13.00	-32.67	peak
2	5132.100	-39.96	2.88	-37.08	-13.00	-24.08	peak
3	6842.800	-44.89	7.68	-37.21	-13.00	-24.21	peak
4	8553.500	-49.78	11.16	-38.62	-13.00	-25.62	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1710.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH19957	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3421.400	-40.91	-1.18	-42.09	-13.00	-29.09	peak
2	5132.100	-38.22	2.88	-35.34	-13.00	-22.34	peak
3	6842.800	-44.74	7.68	-37.06	-13.00	-24.06	peak
4	8553.500	-47.57	11.16	-36.41	-13.00	-23.41	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.76	-1.11	-46.87	-13.00	-33.87	peak
2	5197.500	-38.73	2.98	-35.75	-13.00	-22.75	peak
3	6930.000	-48.27	7.93	-40.34	-13.00	-27.34	peak
4	8662.500	-49.94	11.28	-38.66	-13.00	-25.66	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-42.93	-1.11	-44.04	-13.00	-31.04	peak
2	5197.500	-42.71	2.98	-39.73	-13.00	-26.73	peak
3	6930.000	-44.74	7.93	-36.81	-13.00	-23.81	peak
4	8662.500	-50.32	11.28	-39.04	-13.00	-26.04	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1754.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH20393	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3508.600	-47.00	-1.03	-48.03	-13.00	-35.03	peak
2	5262.900	-43.15	3.09	-40.06	-13.00	-27.06	peak
3	7017.200	-47.15	8.19	-38.96	-13.00	-25.96	peak
4	8771.500	-51.97	11.41	-40.56	-13.00	-27.56	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1754.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M_QPSK_CH20393	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3508.600	-42.60	-1.03	-43.63	-13.00	-30.63	peak
2	5262.900	-36.87	3.09	-33.78	-13.00	-20.78	peak
3	7017.200	-46.92	8.19	-38.73	-13.00	-25.73	peak
4	8771.500	-51.19	11.41	-39.78	-13.00	-26.78	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.75	-1.11	-46.86	-13.00	-33.86	peak
2	5197.500	-42.64	2.98	-39.66	-13.00	-26.66	peak
3	6930.000	-46.39	7.93	-38.46	-13.00	-25.46	peak
4	8662.500	-48.59	11.28	-37.31	-13.00	-24.31	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_1.4M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-42.76	-1.11	-43.87	-13.00	-30.87	peak
2	5197.500	-32.79	2.98	-29.81	-13.00	-16.81	peak
3	6930.000	-42.61	7.93	-34.68	-13.00	-21.68	peak
4	8662.500	-51.09	11.28	-39.81	-13.00	-26.81	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1711.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH19965	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3423.000	-46.51	-1.19	-47.70	-13.00	-34.70	peak
2	5134.500	-48.55	2.88	-45.67	-13.00	-32.67	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1711.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH19965	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3423.000	-43.43	-1.19	-44.62	-13.00	-31.62	peak
2	5134.500	-46.93	2.88	-44.05	-13.00	-31.05	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.33	-1.11	-46.44	-13.00	-33.44	peak
2	5197.500	-40.11	2.98	-37.13	-13.00	-24.13	peak
3	6930.000	-43.91	7.93	-35.98	-13.00	-22.98	peak
4	8662.500	-47.56	11.28	-36.28	-13.00	-23.28	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-43.06	-1.11	-44.17	-13.00	-31.17	peak
2	5197.500	-41.09	2.98	-38.11	-13.00	-25.11	peak
3	6930.000	-42.47	7.93	-34.54	-13.00	-21.54	peak
4	8662.500	-50.42	11.28	-39.14	-13.00	-26.14	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1753.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH20385	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3507.000	-45.56	-1.03	-46.59	-13.00	-33.59	peak
2	5260.500	-44.06	3.08	-40.98	-13.00	-27.98	peak
3	7014.000	-48.83	8.19	-40.64	-13.00	-27.64	peak
4	8767.500	-51.37	11.41	-39.96	-13.00	-26.96	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1753.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M_QPSK_CH20385	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3507.000	-43.15	-1.03	-44.18	-13.00	-31.18	peak
2	5260.500	-39.66	3.08	-36.58	-13.00	-23.58	peak
3	7014.000	-46.34	8.19	-38.15	-13.00	-25.15	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.72	-1.11	-46.83	-13.00	-33.83	peak
2	5197.500	-39.60	2.98	-36.62	-13.00	-23.62	peak
3	6930.000	-46.27	7.93	-38.34	-13.00	-25.34	peak
4	8662.500	-47.89	11.28	-36.61	-13.00	-23.61	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_3M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-42.49	-1.11	-43.60	-13.00	-30.60	peak
2	5197.500	-39.85	2.98	-36.87	-13.00	-23.87	peak
3	6930.000	-41.27	7.93	-33.34	-13.00	-20.34	peak
4	8662.500	-49.39	11.28	-38.11	-13.00	-25.11	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1712.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH19975	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3425.000	-44.29	-1.18	-45.47	-13.00	-32.47	peak
2	5137.500	-42.27	2.89	-39.38	-13.00	-26.38	peak
3	6850.000	-47.68	7.69	-39.99	-13.00	-26.99	peak
4	8562.500	-47.96	11.17	-36.79	-13.00	-23.79	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1712.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH19975	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3425.000	-40.68	-1.18	-41.86	-13.00	-28.86	peak
2	5137.500	-41.02	2.89	-38.13	-13.00	-25.13	peak
3	6850.000	-44.86	7.69	-37.17	-13.00	-24.17	peak
4	8562.500	-48.70	11.17	-37.53	-13.00	-24.53	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.10	-1.11	-46.21	-13.00	-33.21	peak
2	5197.500	-39.37	2.98	-36.39	-13.00	-23.39	peak
3	6930.000	-47.74	7.93	-39.81	-13.00	-26.81	peak
4	8662.500	-50.11	11.28	-38.83	-13.00	-25.83	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-41.66	-1.11	-42.77	-13.00	-29.77	peak
2	5197.500	-37.02	2.98	-34.04	-13.00	-21.04	peak
3	6930.000	-42.15	7.93	-34.22	-13.00	-21.22	peak
4	8662.500	-49.43	11.28	-38.15	-13.00	-25.15	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1752.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH20375	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.000	-45.61	-1.05	-46.66	-13.00	-33.66	peak
2	5257.500	-34.46	3.08	-31.38	-13.00	-18.38	peak
3	7010.000	-47.54	8.17	-39.37	-13.00	-26.37	peak
4	8762.500	-52.26	11.39	-40.87	-13.00	-27.87	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1752.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M_QPSK_CH20375	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3505.000	-42.79	-1.05	-43.84	-13.00	-30.84	peak
2	5257.500	-40.52	3.08	-37.44	-13.00	-24.44	peak
3	7010.000	-46.83	8.17	-38.66	-13.00	-25.66	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-44.01	-1.11	-45.12	-13.00	-32.12	peak
2	5197.500	-40.39	2.98	-37.41	-13.00	-24.41	peak
3	6930.000	-45.38	7.93	-37.45	-13.00	-24.45	peak
4	8662.500	-47.24	11.28	-35.96	-13.00	-22.96	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_5M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-42.46	-1.11	-43.57	-13.00	-30.57	peak
2	5197.500	-36.72	2.98	-33.74	-13.00	-20.74	peak
3	6930.000	-42.83	7.93	-34.90	-13.00	-21.90	peak
4	8662.500	-49.14	11.28	-37.86	-13.00	-24.86	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1715MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20000	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3430.000	-44.93	-1.18	-46.11	-13.00	-33.11	peak
2	5145.000	-40.29	2.89	-37.40	-13.00	-24.40	peak
3	6860.000	-46.31	7.72	-38.59	-13.00	-25.59	peak
4	8575.000	-47.90	11.19	-36.71	-13.00	-23.71	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1715MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20000	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3430.000	-40.57	-1.18	-41.75	-13.00	-28.75	peak
2	5145.000	-37.27	2.89	-34.38	-13.00	-21.38	peak
3	6860.000	-40.90	7.72	-33.18	-13.00	-20.18	peak
4	8575.000	-47.66	11.19	-36.47	-13.00	-23.47	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-46.94	-1.11	-48.05	-13.00	-35.05	peak
2	5197.500	-42.55	2.98	-39.57	-13.00	-26.57	peak
3	6930.000	-46.51	7.93	-38.58	-13.00	-25.58	peak
4	8662.500	-47.00	11.28	-35.72	-13.00	-22.72	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-42.41	-1.11	-43.52	-13.00	-30.52	peak
2	5197.500	-41.00	2.98	-38.02	-13.00	-25.02	peak
3	6930.000	-43.62	7.93	-35.69	-13.00	-22.69	peak
4	8662.500	-48.03	11.28	-36.75	-13.00	-23.75	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1750MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20350	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3500.000	-47.09	-1.06	-48.15	-13.00	-35.15	peak
2	5250.000	-44.36	3.07	-41.29	-13.00	-28.29	peak
3	7000.000	-45.74	8.13	-37.61	-13.00	-24.61	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1750MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M_QPSK_CH20350	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3500.000	-43.67	-1.06	-44.73	-13.00	-31.73	peak
2	5250.000	-39.13	3.07	-36.06	-13.00	-23.06	peak
3	7000.000	-47.28	8.13	-39.15	-13.00	-26.15	peak
4	8750.000	-53.22	11.38	-41.84	-13.00	-28.84	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-49.08	-1.11	-50.19	-13.00	-37.19	peak
2	5197.500	-36.81	2.98	-33.83	-13.00	-20.83	peak
3	6930.000	-47.76	7.93	-39.83	-13.00	-26.83	peak
4	8662.500	-50.10	11.28	-38.82	-13.00	-25.82	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_10M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-41.54	-1.11	-42.65	-13.00	-29.65	peak
2	5197.500	-40.39	2.98	-37.41	-13.00	-24.41	peak
3	6930.000	-43.81	7.93	-35.88	-13.00	-22.88	peak
4	8662.500	-48.25	11.28	-36.97	-13.00	-23.97	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1717.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20025	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3435.000	-45.80	-1.16	-46.96	-13.00	-33.96	peak
2	5152.500	-43.17	2.91	-40.26	-13.00	-27.26	peak
3	6870.000	-46.67	7.75	-38.92	-13.00	-25.92	peak
4	8587.500	-47.85	11.20	-36.65	-13.00	-23.65	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1717.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20025	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3435.000	-41.33	-1.16	-42.49	-13.00	-29.49	peak
2	5152.500	-40.40	2.91	-37.49	-13.00	-24.49	peak
3	6870.000	-43.40	7.75	-35.65	-13.00	-22.65	peak
4	8587.500	-47.19	11.20	-35.99	-13.00	-22.99	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.17	-1.11	-46.28	-13.00	-33.28	peak
2	5197.500	-42.21	2.98	-39.23	-13.00	-26.23	peak
3	6930.000	-48.50	7.93	-40.57	-13.00	-27.57	peak
4	8662.500	-49.05	11.28	-37.77	-13.00	-24.77	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-40.14	-1.11	-41.25	-13.00	-28.25	peak
2	5197.500	-40.36	2.98	-37.38	-13.00	-24.38	peak
3	6930.000	-46.12	7.93	-38.19	-13.00	-25.19	peak
4	8662.500	-49.51	11.28	-38.23	-13.00	-25.23	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1747.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20325	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3495.000	-46.71	-1.06	-47.77	-13.00	-34.77	peak
2	5242.500	-37.27	3.05	-34.22	-13.00	-21.22	peak
3	6990.000	-41.51	8.10	-33.41	-13.00	-20.41	peak
4	8737.500	-48.42	11.38	-37.04	-13.00	-24.04	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1747.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M_QPSK_CH20325	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3495.000	-44.63	-1.06	-45.69	-13.00	-32.69	peak
2	5242.500	-40.64	3.05	-37.59	-13.00	-24.59	peak
3	6990.000	-44.70	8.10	-36.60	-13.00	-23.60	peak
4	8737.500	-52.00	11.38	-40.62	-13.00	-27.62	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-46.17	-1.11	-47.28	-13.00	-34.28	peak
2	5197.500	-44.27	2.98	-41.29	-13.00	-28.29	peak
3	6930.000	-47.87	7.93	-39.94	-13.00	-26.94	peak
4	8662.500	-48.01	11.28	-36.73	-13.00	-23.73	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_15M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-45.92	-1.11	-47.03	-13.00	-34.03	peak
2	5197.500	-44.02	2.98	-41.04	-13.00	-28.04	peak
3	6930.000	-47.89	7.93	-39.96	-13.00	-26.96	peak
4	8662.500	-50.33	11.28	-39.05	-13.00	-26.05	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1720MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20050	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-44.61	-1.16	-45.77	-13.00	-32.77	peak
2	5160.000	-44.82	2.92	-41.90	-13.00	-28.90	peak
3	6880.000	-48.27	7.78	-40.49	-13.00	-27.49	peak
4	8600.000	-50.27	11.21	-39.06	-13.00	-26.06	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1720MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20050	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3440.000	-41.21	-1.16	-42.37	-13.00	-29.37	peak
2	5160.000	-41.87	2.92	-38.95	-13.00	-25.95	peak
3	6880.000	-43.61	7.78	-35.83	-13.00	-22.83	peak
4	8600.000	-47.96	11.21	-36.75	-13.00	-23.75	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-48.71	-1.11	-49.82	-13.00	-36.82	peak
2	5197.500	-40.50	2.98	-37.52	-13.00	-24.52	peak
3	6930.000	-43.62	7.93	-35.69	-13.00	-22.69	peak
4	8662.500	-50.03	11.28	-38.75	-13.00	-25.75	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-40.99	-1.11	-42.10	-13.00	-29.10	peak
2	5197.500	-38.92	2.98	-35.94	-13.00	-22.94	peak
3	6930.000	-42.81	7.93	-34.88	-13.00	-21.88	peak
4	8662.500	-50.12	11.28	-38.84	-13.00	-25.84	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1745MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20300	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-46.46	-1.08	-47.54	-13.00	-34.54	peak
2	5235.000	-43.29	3.04	-40.25	-13.00	-27.25	peak
3	6980.000	-43.27	8.07	-35.20	-13.00	-22.20	peak
4	8725.000	-50.26	11.36	-38.90	-13.00	-25.90	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1745MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M_QPSK_CH20300	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3490.000	-45.22	-1.08	-46.30	-13.00	-33.30	peak
2	5235.000	-40.08	3.04	-37.04	-13.00	-24.04	peak
3	6980.000	-43.03	8.07	-34.96	-13.00	-21.96	peak
4	8725.000	-50.65	11.36	-39.29	-13.00	-26.29	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-47.25	-1.11	-48.36	-13.00	-35.36	peak
2	5197.500	-44.21	2.98	-41.23	-13.00	-28.23	peak
3	6930.000	-47.03	7.93	-39.10	-13.00	-26.10	peak
4	8662.500	-48.20	11.28	-36.92	-13.00	-23.92	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	1732.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 4_20M-16QAM_CH20175	Date:	11/27/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3465.000	-40.22	-1.11	-41.33	-13.00	-28.33	peak
2	5197.500	-40.45	2.98	-37.47	-13.00	-24.47	peak
3	6930.000	-43.44	7.93	-35.51	-13.00	-22.51	peak
4	8662.500	-49.76	11.28	-38.48	-13.00	-25.48	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	699.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23017	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1399.400	-49.88	-7.09	-56.97	-13.00	-43.97	peak
2	2099.100	-35.88	-4.74	-40.62	-13.00	-27.62	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	699.7MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23017	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1399.400	-32.24	-7.09	-39.33	-13.00	-26.33	peak
2	2099.100	-26.13	-4.74	-30.87	-13.00	-17.87	peak
3	2798.800	-42.26	-2.41	-44.67	-13.00	-31.67	peak
4	3498.500	-40.17	-1.06	-41.23	-13.00	-28.23	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-36.75	-7.02	-43.77	-13.00	-30.77	peak
2	2122.500	-34.71	-4.64	-39.35	-13.00	-26.35	peak
3	2830.000	-39.01	-2.32	-41.33	-13.00	-28.33	peak
4	3537.500	-46.09	-0.95	-47.04	-13.00	-34.04	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-31.04	-7.02	-38.06	-13.00	-25.06	peak
2	2122.500	-27.31	-4.64	-31.95	-13.00	-18.95	peak
3	2830.000	-37.45	-2.32	-39.77	-13.00	-26.77	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	715.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23173	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1430.600	-29.64	-6.96	-36.60	-13.00	-23.60	peak
2	2145.900	-37.31	-4.55	-41.86	-13.00	-28.86	peak
3	2861.200	-41.74	-2.25	-43.99	-13.00	-30.99	peak
4	3576.500	-40.56	-0.86	-41.42	-13.00	-28.42	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	715.3MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M_QPSK_CH23173	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1430.600	-26.81	-6.96	-33.77	-13.00	-20.77	peak
2	2145.900	-29.83	-4.55	-34.38	-13.00	-21.38	peak
3	2861.200	-37.96	-2.25	-40.21	-13.00	-27.21	peak
4	3576.500	-42.93	-0.86	-43.79	-13.00	-30.79	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-35.35	-7.02	-42.37	-13.00	-29.37	peak
2	2122.500	-33.76	-4.64	-38.40	-13.00	-25.40	peak
3	2830.000	-41.66	-2.32	-43.98	-13.00	-30.98	peak
4	3537.500	-45.96	-0.95	-46.91	-13.00	-33.91	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_1.4M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-34.46	-7.02	-41.48	-13.00	-28.48	peak
2	2122.500	-32.54	-4.64	-37.18	-13.00	-24.18	peak
3	2830.000	-46.04	-2.32	-48.36	-13.00	-35.36	peak
4	3537.500	-37.73	-0.95	-38.68	-13.00	-25.68	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	700.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23025	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1401.000	-34.59	-7.08	-41.67	-13.00	-28.67	peak
2	2101.500	-31.87	-4.72	-36.59	-13.00	-23.59	peak
3	2802.000	-45.14	-2.40	-47.54	-13.00	-34.54	peak
4	3502.500	-44.23	-1.05	-45.28	-13.00	-32.28	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	700.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23025	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1401.000	-32.91	-7.08	-39.99	-13.00	-26.99	peak
2	2101.500	-27.13	-4.72	-31.85	-13.00	-18.85	peak
3	2802.000	-41.21	-2.40	-43.61	-13.00	-30.61	peak
4	3502.500	-41.85	-1.05	-42.90	-13.00	-29.90	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-33.83	-7.02	-40.85	-13.00	-27.85	peak
2	2122.500	-31.94	-4.64	-36.58	-13.00	-23.58	peak
3	2537.500	-43.92	-3.10	-47.02	-13.00	-34.02	peak
4	2830.000	-38.64	-2.32	-40.96	-13.00	-27.96	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-32.90	-7.02	-39.92	-13.00	-26.92	peak
2	2122.500	-27.19	-4.64	-31.83	-13.00	-18.83	peak
3	2830.000	-38.55	-2.32	-40.87	-13.00	-27.87	peak
4	3537.500	-36.79	-0.95	-37.74	-13.00	-24.74	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	714.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23165	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1429.000	-29.70	-6.96	-36.66	-13.00	-23.66	peak
2	2143.500	-31.40	-4.56	-35.96	-13.00	-22.96	peak
3	2858.000	-45.79	-2.25	-48.04	-13.00	-35.04	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	714.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M_QPSK_CH23165	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1429.000	-26.85	-6.96	-33.81	-13.00	-20.81	peak
2	2143.500	-27.81	-4.56	-32.37	-13.00	-19.37	peak
3	2858.000	-39.18	-2.25	-41.43	-13.00	-28.43	peak
4	3572.500	-44.61	-0.87	-45.48	-13.00	-32.48	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-31.93	-7.02	-38.95	-13.00	-25.95	peak
2	2122.500	-31.91	-4.64	-36.55	-13.00	-23.55	peak
3	2830.000	-41.89	-2.32	-44.21	-13.00	-31.21	peak
4	3537.500	-38.71	-0.95	-39.66	-13.00	-26.66	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_3M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-34.18	-7.02	-41.20	-13.00	-28.20	peak
2	2122.500	-30.57	-4.64	-35.21	-13.00	-22.21	peak
3	2830.000	-38.49	-2.32	-40.81	-13.00	-27.81	peak
4	3537.500	-43.13	-0.95	-44.08	-13.00	-31.08	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	701.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23035	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1403.000	-36.11	-7.07	-43.18	-13.00	-30.18	peak
2	2104.500	-31.23	-4.71	-35.94	-13.00	-22.94	peak
3	2806.000	-45.31	-2.39	-47.70	-13.00	-34.70	peak
4	3507.500	-42.23	-1.03	-43.26	-13.00	-30.26	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	701.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23035	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1403.000	-32.55	-7.07	-39.62	-13.00	-26.62	peak
2	2104.500	-31.91	-4.71	-36.62	-13.00	-23.62	peak
3	2806.000	-40.55	-2.39	-42.94	-13.00	-29.94	peak
4	3507.500	-38.33	-1.03	-39.36	-13.00	-26.36	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-32.81	-7.02	-39.83	-13.00	-26.83	peak
2	2122.500	-30.85	-4.64	-35.49	-13.00	-22.49	peak
3	2830.000	-43.21	-2.32	-45.53	-13.00	-32.53	peak
4	3537.500	-42.62	-0.95	-43.57	-13.00	-30.57	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-26.28	-7.02	-33.30	-13.00	-20.30	peak
2	2122.500	-26.98	-4.64	-31.62	-13.00	-18.62	peak
3	2830.000	-38.84	-2.32	-41.16	-13.00	-28.16	peak
4	3537.500	-41.86	-0.95	-42.81	-13.00	-29.81	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	713.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23155	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1427.000	-36.47	-6.96	-43.43	-13.00	-30.43	peak
2	2140.500	-37.37	-4.57	-41.94	-13.00	-28.94	peak
3	2854.000	-45.61	-2.26	-47.87	-13.00	-34.87	peak
4	3567.500	-39.94	-0.87	-40.81	-13.00	-27.81	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	713.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M_QPSK_CH23155	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1427.000	-27.28	-6.96	-34.24	-13.00	-21.24	peak
2	2140.500	-29.05	-4.57	-33.62	-13.00	-20.62	peak
3	2854.000	-44.20	-2.26	-46.46	-13.00	-33.46	peak
4	3567.500	-38.83	-0.87	-39.70	-13.00	-26.70	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-35.63	-7.02	-42.65	-13.00	-29.65	peak
2	2122.500	-32.38	-4.64	-37.02	-13.00	-24.02	peak
3	2830.000	-43.49	-2.32	-45.81	-13.00	-32.81	peak
4	3537.500	-45.25	-0.95	-46.20	-13.00	-33.20	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_5M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-31.38	-7.02	-38.40	-13.00	-25.40	peak
2	2122.500	-26.26	-4.64	-30.90	-13.00	-17.90	peak
3	2830.000	-35.28	-2.32	-37.60	-13.00	-24.60	peak
4	3537.500	-41.03	-0.95	-41.98	-13.00	-28.98	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	704MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23060	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1408.000	-36.07	-7.05	-43.12	-13.00	-30.12	peak
2	2112.000	-43.28	-4.68	-47.96	-13.00	-34.96	peak
3	2816.000	-33.52	-2.36	-35.88	-13.00	-22.88	peak
4	3520.000	-38.56	-1.00	-39.56	-13.00	-26.56	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	704MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23060	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1408.000	-32.12	-7.05	-39.17	-13.00	-26.17	peak
2	2112.000	-29.39	-4.68	-34.07	-13.00	-21.07	peak
3	2816.000	-41.37	-2.36	-43.73	-13.00	-30.73	peak
4	3520.000	-33.11	-1.00	-34.11	-13.00	-21.11	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-32.49	-7.02	-39.51	-13.00	-26.51	peak
2	2122.500	-31.72	-4.64	-36.36	-13.00	-23.36	peak
3	2830.000	-43.62	-2.32	-45.94	-13.00	-32.94	peak
4	3537.500	-42.25	-0.95	-43.20	-13.00	-30.20	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-28.69	-7.02	-35.71	-13.00	-22.71	peak
2	2122.500	-24.78	-4.64	-29.42	-13.00	-16.42	peak
3	2830.000	-39.13	-2.32	-41.45	-13.00	-28.45	peak
4	3537.500	-42.90	-0.95	-43.85	-13.00	-30.85	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	711MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23130	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-33.46	-6.99	-40.45	-13.00	-27.45	peak
2	2133.000	-27.47	-4.60	-32.07	-13.00	-19.07	peak
3	2844.000	-40.43	-2.29	-42.72	-13.00	-29.72	peak
4	3555.000	-43.05	-0.91	-43.96	-13.00	-30.96	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	711MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M_QPSK_CH23130	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-35.86	-6.99	-42.85	-13.00	-29.85	peak
2	2133.000	-26.19	-4.60	-30.79	-13.00	-17.79	peak
3	2844.000	-39.21	-2.29	-41.50	-13.00	-28.50	peak
4	3555.000	-43.71	-0.91	-44.62	-13.00	-31.62	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-34.21	-7.02	-41.23	-13.00	-28.23	peak
2	2122.500	-29.15	-4.64	-33.79	-13.00	-20.79	peak
3	2830.000	-43.97	-2.32	-46.29	-13.00	-33.29	peak
4	3537.500	-45.72	-0.95	-46.67	-13.00	-33.67	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	707.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 12_10M-16QAM_CH23095	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1415.000	-32.72	-7.02	-39.74	-13.00	-26.74	peak
2	2122.500	-26.62	-4.64	-31.26	-13.00	-18.26	peak
3	2830.000	-39.51	-2.32	-41.83	-13.00	-28.83	peak
4	3537.500	-42.23	-0.95	-43.18	-13.00	-30.18	peak





Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	706.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23755	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1413.000	-34.00	-7.02	-41.02	-13.00	-28.02	peak
2	2119.500	-29.39	-4.65	-34.04	-13.00	-21.04	peak
3	2826.000	-44.56	-2.33	-46.89	-13.00	-33.89	peak
4	3532.500	-37.73	-0.97	-38.70	-13.00	-25.70	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	706.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23755	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1413.000	-32.86	-7.02	-39.88	-13.00	-26.88	peak
2	2119.500	-25.33	-4.65	-29.98	-13.00	-16.98	peak
3	2826.000	-38.76	-2.33	-41.09	-13.00	-28.09	peak
4	3532.500	-41.51	-0.97	-42.48	-13.00	-29.48	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23790	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-34.42	-6.99	-41.41	-13.00	-28.41	peak
2	2130.000	-33.78	-4.62	-38.40	-13.00	-25.40	peak
3	2840.000	-43.69	-2.30	-45.99	-13.00	-32.99	peak
4	3550.000	-39.00	-0.92	-39.92	-13.00	-26.92	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23790	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-32.30	-6.99	-39.29	-13.00	-26.29	peak
2	2130.000	-25.44	-4.62	-30.06	-13.00	-17.06	peak
3	2840.000	-37.51	-2.30	-39.81	-13.00	-26.81	peak
4	3550.000	-43.74	-0.92	-44.66	-13.00	-31.66	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	713.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23825	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1427.000	-33.25	-6.96	-40.21	-13.00	-27.21	peak
2	2140.500	-32.96	-4.57	-37.53	-13.00	-24.53	peak
3	2854.000	-43.53	-2.26	-45.79	-13.00	-32.79	peak
4	3567.500	-46.19	-0.87	-47.06	-13.00	-34.06	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	713.5MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M_QPSK_CH23825	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1427.000	-26.97	-6.96	-33.93	-13.00	-20.93	peak
2	2140.500	-25.75	-4.57	-30.32	-13.00	-17.32	peak
3	2854.000	-43.70	-2.26	-45.96	-13.00	-32.96	peak
4	3567.500	-45.51	-0.87	-46.38	-13.00	-33.38	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M-16QAM_CH23790	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-28.86	-6.99	-35.85	-13.00	-22.85	peak
2	2130.000	-28.14	-4.62	-32.76	-13.00	-19.76	peak
3	2840.000	-44.00	-2.30	-46.30	-13.00	-33.30	peak
4	3550.000	-46.12	-0.92	-47.04	-13.00	-34.04	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_5M-16QAM_CH23790	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-33.60	-6.99	-40.59	-13.00	-27.59	peak
2	2130.000	-24.82	-4.62	-29.44	-13.00	-16.44	peak
3	2840.000	-39.79	-2.30	-42.09	-13.00	-29.09	peak
4	3550.000	-39.89	-0.92	-40.81	-13.00	-27.81	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	709MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23780	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1418.000	-35.40	-7.01	-42.41	-13.00	-29.41	peak
2	2127.000	-30.82	-4.63	-35.45	-13.00	-22.45	peak
3	2836.000	-44.29	-2.30	-46.59	-13.00	-33.59	peak
4	3545.000	-43.46	-0.95	-44.41	-13.00	-31.41	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	709MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23780	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1418.000	-30.87	-7.01	-37.88	-13.00	-24.88	peak
2	2127.000	-28.62	-4.63	-33.25	-13.00	-20.25	peak
3	2836.000	-39.55	-2.30	-41.85	-13.00	-28.85	peak
4	3545.000	-45.05	-0.95	-46.00	-13.00	-33.00	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23790	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-35.52	-6.99	-42.51	-13.00	-29.51	peak
2	2130.000	-33.74	-4.62	-38.36	-13.00	-25.36	peak
3	2840.000	-44.64	-2.30	-46.94	-13.00	-33.94	peak
4	3550.000	-44.28	-0.92	-45.20	-13.00	-32.20	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23790	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-30.72	-6.99	-37.71	-13.00	-24.71	peak
2	2130.000	-27.30	-4.62	-31.92	-13.00	-18.92	peak
3	2840.000	-41.65	-2.30	-43.95	-13.00	-30.95	peak
4	3550.000	-44.43	-0.92	-45.35	-13.00	-32.35	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	711MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23800	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-29.62	-6.99	-36.61	-13.00	-23.61	peak
2	2133.000	-31.10	-4.60	-35.70	-13.00	-22.70	peak
3	2844.000	-42.02	-2.29	-44.31	-13.00	-31.31	peak
4	3555.000	-43.63	-0.91	-44.54	-13.00	-31.54	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	711MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M_QPSK_CH23800	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1422.000	-29.75	-6.99	-36.74	-13.00	-23.74	peak
2	2133.000	-27.22	-4.60	-31.82	-13.00	-18.82	peak
3	2844.000	-36.32	-2.29	-38.61	-13.00	-25.61	peak
4	3555.000	-40.70	-0.91	-41.61	-13.00	-28.61	peak



Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M-16QAM_CH23790	Date:	11/24/2017
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-38.74	-6.99	-45.73	-13.00	-32.73	peak
2	2130.000	-34.67	-4.62	-39.29	-13.00	-26.29	peak
3	2840.000	-45.49	-2.30	-47.79	-13.00	-34.79	peak
4	3550.000	-48.25	-0.92	-49.17	-13.00	-36.17	peak

Standard:	Part 24E&27	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	710MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4G_BAND 17_10M-16QAM_CH23790	Date:	11/24/2017
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1420.000	-37.25	-6.99	-44.24	-13.00	-31.24	peak
2	2130.000	-31.64	-4.62	-36.26	-13.00	-23.26	peak
3	2840.000	-42.03	-2.30	-44.33	-13.00	-31.33	peak
4	3550.000	-44.76	-0.92	-45.68	-13.00	-32.68	peak





## **Appendix : Frequency Stability/ Emission Bandwidth & Occupied Bandwidth/ Peak to Average Ratio/ Band Edge/ Conducted Spurious Emission**

The equipment passed the requirement of this clause, the detail results refer to "Test Results\_Band2/Band4/Band12/Band17."

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