



FCC TEST REPORT

FCC ID: 2AYE8MIFIDATA

Product Name	:	4G ROUTER
Model Name	:	LC111,LC112,LC113,LC115,LC116,LC117,LC118,GC111,GC112,GC113,GC115,B315,B525,E5573,E3372
Brand Name	:	N/A
Report No.	:	PTC20091603002E-FC02
Prepared for		
ShenZhen MifiData technology Co.,Ltd.		
4/F building F, Station Industrial Park ,TianBao road,ShiYan Town ,BaoAn District ,Shenzhen Guangdong, China		
Prepared by		
Precise Testing & Certification Corp., Ltd.		
Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan,China		



Revision History

Rev.	Issue Date	Revisions	Revised By
00	Nov. 27, 2019	Initial Issue	
01	Dec. 18, 2020	Revised report information.	Peggy Chang



TEST RESULT CERTIFICATION

Applicant's name : ShenZhen MifiData technology Co.,Ltd.
Address : 4/F building F, Station Industrial Park ,TianBao road,ShiYan
Town ,BaoAn District ,Shenzhen Guangdong, China

Manufacture's name : ShenZhen MifiData technology Co.,Ltd.
Address : 4/F building F, Station Industrial Park ,TianBao road,ShiYan
Town ,BaoAn District ,Shenzhen Guangdong, China

Product name : 4G ROUTER
Model name : LC111,LC112,LC113,LC115,LC116,LC117,LC118,GC111,GC112,GC
113,GC115,B315,B525,E5573,E3372

Standards : FCC CFR47 Part 22, Part 24, Part 27
Test procedure : ANSI C63.26:2015
Test Date : Dec 01, 2020 to Dec. 17, 2020
Date of Issue : Dec. 18, 2020
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

Handwritten signature of Leo Yang in black ink.

Leo Yang / Engineer

Technical Manager:

Handwritten signature of Chris Du in black ink.

Chris Du / Manager



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1 General Information

1.1. EUT Description

Applicant		ShenZhen MifiData technology Co.,Ltd.			
Applicant Address		4/F building F, Station Industrial Park ,TianBao road,ShiYan Town ,BaoAn District ,Shenzhen Guangdong, China			
Manufacturer		ShenZhen MifiData technology Co.,Ltd.			
Manufacturer Address		4/F building F, Station Industrial Park ,TianBao road,ShiYan Town ,BaoAn District ,Shenzhen Guangdong, China			
Product Type		4G ROUTER			
Model Number		LC111,LC112,LC113,LC115,LC116,LC117,LC118,GC111,GC112,GC113,GC115,B315,B525,E5573,E3372			
Power supply:		DC 12V from adapter			
Adapter information:		MODEL: RA042-1201000US INPUT:AC100-240V 50/60Hz 0.35A Max; OUTPUT:DC 12V 1000mA			
Hardware Version:		LM321-LC111-V4.0			
Software Version:		N/A			
Mode	LTE	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		2	1850.7 ~ 1909.3	1930.7 ~ 1989.3	QPSK, 16QAM
		4	1710.7 ~ 1754.3	2110.7 ~ 2154.3	QPSK, 16QAM
		5	824.7 ~ 848.3	869.7 ~ 893.3	QPSK, 16QAM
		7	2500 ~ 2570	2620 ~ 2690	QPSK, 16QAM
Channel Bandwidth		LTE Band 2	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 4	1.4M, 3M, 5MHz, 10MHz, 15MHz, 20MHz		
		LTE Band 5	1.4M, 3M, 5MHz, 10MHz		
		LTE Band 7	5MHz, 10MHz, 15MHz, 20MHz		
Type of Antenna		IFA Antenna			
Antenna Gain		LTE Band 2	2.24 dBi		
		LTE Band 4	2.86 dBi		
		LTE Band 5	1.61 dBi		
		LTE Band 7	4.14 dBi		



Max. Conducted Output	LTE Band 2 (Channel Bandwidth 1.4MHz)	0.222	W
Average Power	LTE Band 2 (Channel Bandwidth 3MHz)	0.217	W
	LTE Band 2 (Channel Bandwidth 5MHz)	0.216	W
	LTE Band 2 (Channel Bandwidth 10MHz)	0.216	W
	LTE Band 2 (Channel Bandwidth 15MHz)	0.217	W
	LTE Band 2 (Channel Bandwidth 20MHz)	0.217	W
	LTE Band 4 (Channel Bandwidth 1.4MHz)	0.224	W
	LTE Band 4 (Channel Bandwidth 3MHz)	0.222	W
	LTE Band 4 (Channel Bandwidth 5MHz)	0.226	W
	LTE Band 4 (Channel Bandwidth 10MHz)	0.228	W
	LTE Band 4 (Channel Bandwidth 15MHz)	0.228	W
	LTE Band 4 (Channel Bandwidth 20MHz)	0.231	W
	LTE Band 5 (Channel Bandwidth 1.4MHz)	0.186	W
	LTE Band 5 (Channel Bandwidth 3MHz)	0.194	W
	LTE Band 5 (Channel Bandwidth 5MHz)	0.191	W
	LTE Band 5 (Channel Bandwidth 10MHz)	0.189	W
	LTE Band 7 (Channel Bandwidth 5MHz)	0.200	W
	LTE Band 7 (Channel Bandwidth 10MHz)	0.195	W
	LTE Band 7 (Channel Bandwidth 15MHz)	0.201	W
	LTE Band 7 (Channel Bandwidth 20MHz)	0.201	W



Max. E.R.P. / E.I.R.P.	LTE Band 2 (Channel Bandwidth 1.4MHz)	0.219	W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 3MHz)	0.217	W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 5MHz)	0.215	W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 10MHz)	0.224	W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 15MHz)	0.225	W (E.I.R.P.)
	LTE Band 2 (Channel Bandwidth 20MHz)	0.225	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 1.4MHz)	0.215	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 3MHz)	0.208	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 5MHz)	0.210	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 10MHz)	0.213	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 15MHz)	0.209	W (E.I.R.P.)
	LTE Band 4 (Channel Bandwidth 20MHz)	0.218	W (E.I.R.P.)
	LTE Band 5 (Channel Bandwidth 1.4MHz)	0.193	W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 3MHz)	0.193	W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 5MHz)	0.193	W (E.R.P.)
	LTE Band 5 (Channel Bandwidth 10MHz)	0.198	W (E.R.P.)
	LTE Band 7 (Channel Bandwidth 5MHz)	0.222	W (E.I.R.P.)
	LTE Band 7 (Channel Bandwidth 10MHz)	0.217	W (E.I.R.P.)
	LTE Band 7 (Channel Bandwidth 15MHz)	0.207	W (E.I.R.P.)
	LTE Band 7 (Channel Bandwidth 20MHz)	0.209	W (E.I.R.P.)



Emission Designator	Band	QPSK	16QAM
	LTE Band 2 (Channel Bandwidth 1.4MHz)	1M08G7D	1M08W7D
	LTE Band 2 (Channel Bandwidth 3MHz)	2M69G7D	2M69W7D
	LTE Band 2 (Channel Bandwidth 5MHz)	4M48G7D	4M47W7D
	LTE Band 2 (Channel Bandwidth 10MHz)	8M95G7D	8M93W7D
	LTE Band 2 (Channel Bandwidth 15MHz)	13M42G7D	13M42W7D
	LTE Band 2 (Channel Bandwidth 20MHz)	17M91G7D	17M89W7D
	LTE Band 4 (Channel Bandwidth 1.4MHz)	1M08G7D	1M08W7D
	LTE Band 4 (Channel Bandwidth 3MHz)	2M69G7D	2M69W7D
	LTE Band 4 (Channel Bandwidth 5MHz)	4M48G7D	4M48W7D
	LTE Band 4 (Channel Bandwidth 10MHz)	8M94G7D	8M93W7D
	LTE Band 4 (Channel Bandwidth 15MHz)	13M37G7D	13M38W7D
	LTE Band 4 (Channel Bandwidth 20MHz)	17M91G7D	17M85W7D
	LTE Band 5 (Channel Bandwidth 1.4MHz)	1M08G7D	1M08W7D
	LTE Band 5 (Channel Bandwidth 3MHz)	2M69G7D	2M69W7D
	LTE Band 5 (Channel Bandwidth 5MHz)	4M47G7D	4M48W7D
	LTE Band 5 (Channel Bandwidth 10MHz)	8M97G7D	8M96W7D
	LTE Band 7 (Channel Bandwidth 5MHz)	4M48G7D	4M49W7D
	LTE Band 7 (Channel Bandwidth 10MHz)	8M92G7D	8M94W7D
	LTE Band 7 (Channel Bandwidth 15MHz)	13M42G7D	13M44W7D
	LTE Band 7 (Channel Bandwidth 20MHz)	17M88G7D	17M85W7D



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



LTE Band 5				
Channel Bandwidth	1.4MHz		3MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20407	824.7	20415	825.5
Middle CH	20525	836.5	20525	836.5
High CH	20643	848.3	20635	847.5
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20425	826.5	20450	829.0
Middle CH	20525	836.5	20525	836.5
High CH	20625	846.5	20600	844.0

LTE Band 7				
Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20775	2502.5	20800	2505.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21425	2567.5	21400	2565.0
Channel Bandwidth	15MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low CH	20825	2507.5	20850	2510.0
Middle CH	21100	2535.0	21100	2535.0
High CH	21375	2562.5	21350	2560.0

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 19000 MHz.

Band	Channel Bandwidth	Test Modes	
LTE Band 2	1.4 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 3) 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 2) 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 8) 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 4) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 8) 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 13) 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 25) 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 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
	15 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 38) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 18) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 38) 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 50) 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 4	1.4 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 3) 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 2) 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 8) 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 4) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 8) 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 13) 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 25) 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 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
	15 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 38) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 18) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 38) 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 50) 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 5	1.4 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 3) 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 2) 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 8) 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 4) Link <input type="checkbox"/> LTE(RB Size 8, RB Offset 8) 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 13) 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 25) 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 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

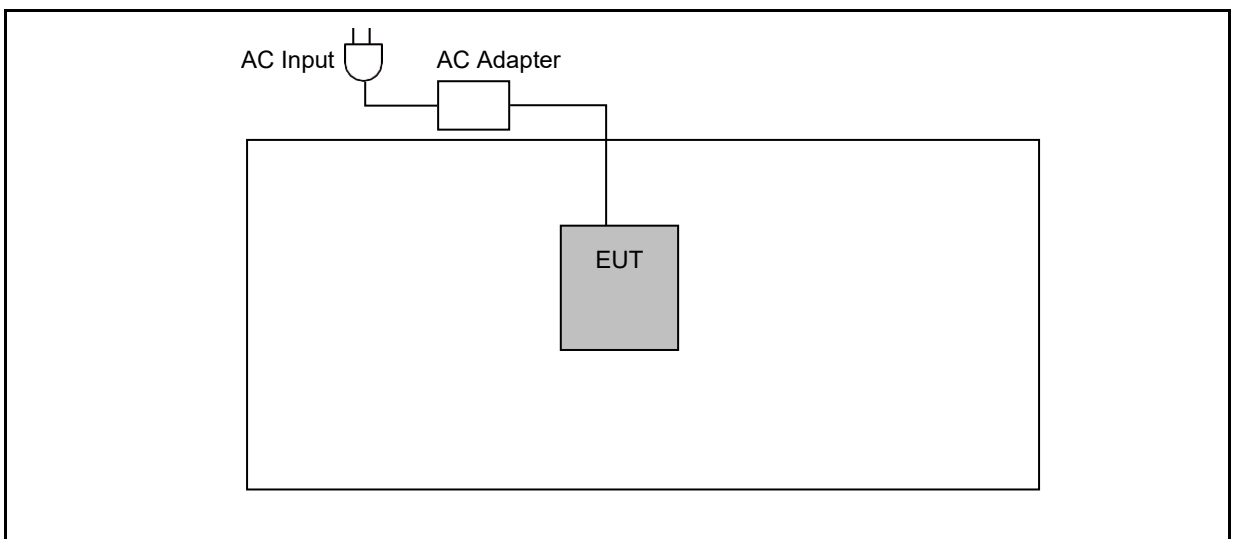
Band	Channel Bandwidth	Test Modes	
LTE Band 7	5 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 13) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 24) Link <input type="checkbox"/> LTE(RB Size 12, RB Offset 0) Link <input type="checkbox"/> 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 25) 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 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
	15 MHz	<input type="checkbox"/> LTE(RB Size 1, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 38) Link <input type="checkbox"/> LTE(RB Size 1, RB Offset 74) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 0) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 18) Link <input type="checkbox"/> LTE(RB Size 38, RB Offset 38) 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 50) 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



1.3. EUT Exercise Software

1	Setup the EUT and Base Station (CMW500) as shown on 1.4.
2	Turn on the power of all equipment.
3	EUT run test program test.

1.4. Configuration of Test System Details





1.5. Summary of Test Result

FCC Rule	Description	Result
§2.1046	Conducted Output Average Power	Pass
§22.913 §24.232 §27.50	Equivalent Isotropic Radiated Power / Equivalent Radiated Power	Pass
§2.1055 §22.355 §24.235 §27.54	Frequency Stability	Pass
§2.1049	Emission Bandwidth & Occupied Bandwidth	Pass
§24.232 §27.50	Peak to average ratio	Pass
§22.917 §24.238 §27.53	Band Edge	Pass
§2.1051 §22.917 §24.238 §27.53	Conducted Spurious Emissions	Pass
§2.1053 §22.917 §24.238 §27.53	Radiated Spurious Emissions	Pass
---	Receiver Spurious Emissions	Pass

1.6. Test facilities and accreditations

Test laboratory

Dongguan Precise Testing & Certification Corp., Ltd.

Address: Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A-1



1.7. Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

1.8. Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2xUc(y)$

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%	

1.9. LIST OF TEST EQUIPMENT

Equipment Name	Manufacturer	Model	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde&schwarz	ESPI7	100314	Sep. 18, 2020	1 Year
TRILOG Broadband Antenna	schwarbeck	VULB 9163	9163-872	Sep. 18, 2020	1 Year
amplifier	Hewlett-Packard	8447D	3113A06150	Sep. 18, 2020	1 Year



Single path vehicle AMN(LISN)	Schwarzbeck	NNBM 8124	01175	Sep. 18, 2020	1 Year
Low noise active vertical monopole antenna	Schwarzbeck	VAMP 9243	#565	Sep. 18, 2020	1 Year
Biconical antenna	Schwarzbeck	BBA 9106	#164	Sep. 18, 2020	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY49060455	Sep. 18, 2020	1 Year
ESG Series Analog signal generator	Agilent	E4421B	GB40051240	Sep. 18, 2020	1 Year
Thermometer clock humidity monitor	-	HTC-1	/	Sep. 18, 2020	1 Year
Log Periodic Antenna	Schwarzbeck	VUSLP 9111B	#312	Sep. 18, 2020	1 Year
Log Periodic Dipole Array Antenna	ETS-LINDGREN	3148B	00224524	Sep. 18, 2020	1 Year
Amplifier	EMtrace	RP06A	00117	Sep. 18, 2020	1 Year
Comprehensive test instrument	Rohde&schwarz	CMW500	149155	Sep. 18, 2020	1 Year
PXA Signal Analyzer	Agilent	N9030A	MY51350296	Sep. 18, 2020	1 Year
EMI Test Receiver	Rohde&schwarz	ESIB26	100273	Sep. 18, 2020	1 Year
Synthesized Sweeper	Agilent	83752A	3610A01957	Sep. 18, 2020	1 Year
DC Power Supply	Agilent	E3632A	MY40027695	Sep. 18, 2020	1 Year
Artificial mains network	3ctest	LISN J50	ES391180 5	Sep. 18, 2020	1 Year
Power amplifier	Space-Dtronics	EWLNA0118G-P40	1852001	Sep. 18, 2020	1 Year
Current Probe	SOLAR ELECTRONICS CO.	9207-1	220095-1	Sep. 18, 2020	1 Year
Loop Sensor	SOLAR ELECTRONICS CO.	7334-1	220095-2	Sep. 18, 2020	1 Year

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

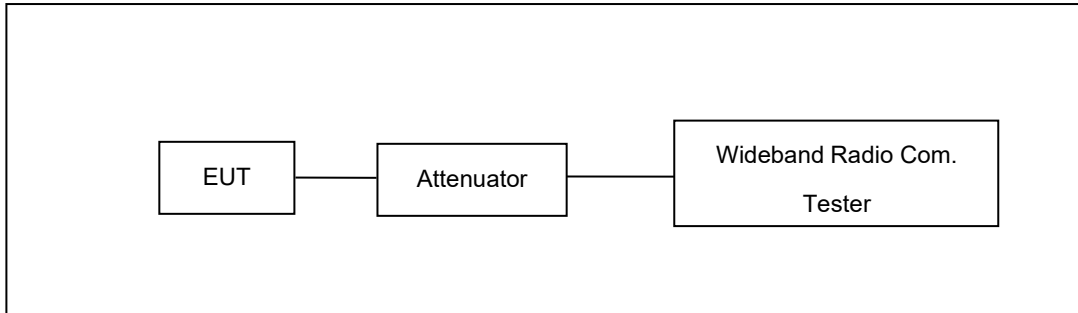


2 Conducted Output Average Power Test

2.1. Limit

N/A

2.2. Test Setup



2.3. Test Procedure

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



2.4. Test Result

Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power		
					Size	Offset	(dBm)	(W)	
LTE Band 2	1.4 MHz	QPSK	18607	1850.7	1	0	23.01	0.200	
					1	3	23.00	0.200	
					1	5	23.06	0.202	
					3	0	23.07	0.203	
					3	2	23.05	0.202	
					3	3	23.04	0.201	
			6	0	22.09	0.162			
			18900	1880.0	1	0	23.23	0.210	
					1	3	23.20	0.209	
					1	5	23.25	0.211	
					3	0	23.28	0.213	
					3	2	23.25	0.211	
					3	3	23.22	0.210	
			6	0	22.27	0.169			
			19193	1909.3	1	0	23.41	0.219	
					1	3	23.40	0.219	
					1	5	23.41	0.219	
					3	0	23.47	0.222	
		3			2	23.40	0.219		
		3			3	23.42	0.220		
		6	0	22.48	0.177				
		16QAM	1.4 MHz	18607	1850.7	1	0	21.99	0.158
						1	3	21.94	0.156
						1	5	22.06	0.161
						3	0	22.01	0.159
						3	2	22.00	0.158
						3	3	21.99	0.158
				6	0	21.87	0.154		
				18900	1880.0	1	0	22.16	0.164
						1	3	22.15	0.164
						1	5	22.18	0.165
						3	0	22.19	0.166
						3	2	22.16	0.164
						3	3	22.21	0.166
				6	0	22.19	0.166		
				19193	1909.3	1	0	22.36	0.172
1	3					22.34	0.171		
1	5					22.36	0.172		
3	0					22.36	0.172		
3	2	22.38	0.173						
3	3	22.40	0.174						
6	0	22.37	0.173						



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power		
					Size	Offset	(dBm)	(W)	
LTE Band 2	3 MHz	QPSK	18615	1851.5	1	0	22.93	0.196	
					1	8	22.93	0.196	
					1	14	22.95	0.197	
					8	0	21.93	0.156	
					8	4	21.93	0.156	
					8	8	21.96	0.157	
			15	0	21.95	0.157			
			18900	1880.0	1	0	23.07	0.203	
					1	8	23.09	0.204	
					1	14	23.12	0.205	
					8	0	22.15	0.164	
					8	4	22.19	0.166	
					8	8	22.15	0.164	
			15	0	22.14	0.164			
			19185	1908.5	1	0	23.30	0.214	
					1	8	23.31	0.214	
					1	14	23.36	0.217	
					8	0	22.33	0.171	
		8			4	22.30	0.170		
		8			8	22.36	0.172		
		15	0	22.39	0.173				
		16QAM	3 MHz	18615	1851.5	1	0	21.92	0.156
						1	8	21.89	0.155
						1	14	21.89	0.155
						8	0	20.96	0.125
						8	4	20.99	0.126
						8	8	20.94	0.124
				15	0	20.90	0.123		
				18900	1880.0	1	0	22.05	0.160
						1	8	22.10	0.162
						1	14	22.10	0.162
						8	0	21.15	0.130
						8	4	21.14	0.130
						8	8	21.17	0.131
				15	0	21.13	0.130		
				19185	1908.5	1	0	22.24	0.167
						1	8	22.17	0.165
						1	14	22.29	0.169
						8	0	21.30	0.135
		8	4			21.30	0.135		
		8	8			21.33	0.136		
		15	0	21.27	0.134				



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	5 MHz	QPSK	18625	1852.5	1	0	22.89	0.195
					1	13	22.92	0.196
					1	24	22.92	0.196
					12	0	21.97	0.157
					12	6	21.94	0.156
					12	13	21.96	0.157
			25	0	21.98	0.158		
			1	0	23.19	0.208		
			1	13	23.07	0.203		
			1	24	23.11	0.205		
			12	0	22.15	0.164		
			12	6	22.13	0.163		
			12	13	22.16	0.164		
			25	0	22.19	0.166		
			1	0	23.28	0.213		
			1	13	23.26	0.212		
			1	24	23.34	0.216		
			12	0	22.33	0.171		
		12	6	22.33	0.171			
		12	13	22.37	0.173			
		25	0	22.33	0.171			
		1	0	21.86	0.153			
		1	13	21.80	0.151			
		1	24	21.84	0.153			
		12	0	20.94	0.124			
		12	6	20.92	0.124			
		12	13	20.92	0.124			
		25	0	20.94	0.124			
		1	0	22.08	0.161			
		1	13	22.05	0.160			
		1	24	22.05	0.160			
		12	0	21.13	0.130			
		12	6	21.14	0.130			
		12	13	21.14	0.130			
		25	0	21.12	0.129			
		1	0	22.24	0.167			
1	13	22.22	0.167					
1	24	22.28	0.169					
12	0	21.31	0.135					
12	6	21.31	0.135					
12	13	21.32	0.136					
25	0	21.31	0.135					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power				
					Size	Offset	(dBm)	(W)			
LTE Band 2	10 MHz	QPSK	18650	1855.0	1	0	22.92	0.196			
					1	25	22.90	0.195			
					1	49	23.05	0.202			
					25	0	21.95	0.157			
					25	13	21.91	0.155			
					25	25	21.96	0.157			
			50	0	21.98	0.158					
			18900	1880.0	1	0	23.15	0.207			
					1	25	23.10	0.204			
					1	49	23.09	0.204			
					25	0	22.12	0.163			
					25	13	22.14	0.164			
					25	25	22.20	0.166			
			50	0	22.17	0.165					
			19150	1905.0	1	0	23.28	0.213			
					1	25	23.26	0.212			
					1	49	23.35	0.216			
					25	0	22.30	0.170			
		25			13	22.34	0.171				
		25			25	22.35	0.172				
		50	0	22.32	0.171						
		16QAM	10 MHz	18650	1855.0	1	0	21.88	0.154		
						1	25	21.85	0.153		
						1	49	21.97	0.157		
						25	0	20.92	0.124		
						25	13	20.94	0.124		
						25	25	20.90	0.123		
						50	0	20.89	0.123		
						18900	1880.0	1	0	22.09	0.162
								1	25	22.06	0.161
								1	49	22.02	0.159
								25	0	21.11	0.129
								25	13	21.14	0.130
				25	25			21.19	0.132		
				50	0	21.07	0.128				
				19150	1905.0	1	0	22.23	0.167		
						1	25	22.27	0.169		
						1	49	22.27	0.169		
						25	0	21.28	0.134		
						25	13	21.32	0.136		
						25	25	21.31	0.135		
				50	0	21.26	0.134				



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 2	15 MHz	QPSK	18675	1857.5	1	0	22.94	0.197
					1	38	22.95	0.197
					1	74	23.06	0.202
					38	0	21.92	0.156
					38	18	21.92	0.156
					38	38	22.06	0.161
			75	0	21.95	0.157		
			1	0	23.15	0.207		
			1	38	23.09	0.204		
			1	74	23.12	0.205		
			38	0	22.12	0.163		
			38	18	22.10	0.162		
			38	38	22.19	0.166		
			75	0	22.19	0.166		
			1	0	23.15	0.207		
			1	38	23.32	0.215		
			1	74	23.37	0.217		
			38	0	22.31	0.170		
		38	18	22.30	0.170			
		38	38	22.34	0.171			
		75	0	22.40	0.174			
		1	0	21.89	0.155			
		1	38	21.89	0.155			
		1	74	21.95	0.157			
		38	0	20.90	0.123			
		38	18	20.85	0.122			
		38	38	20.94	0.124			
		75	0	20.91	0.123			
		1	0	22.12	0.163			
		1	38	22.06	0.161			
		1	74	22.03	0.160			
		38	0	21.00	0.126			
		38	18	21.08	0.128			
		38	38	21.10	0.129			
		75	0	21.11	0.129			
		1	0	22.10	0.162			
1	38	22.25	0.168					
1	74	22.30	0.170					
38	0	21.26	0.134					
38	18	21.27	0.134					
38	38	21.28	0.134					
75	0	21.34	0.136					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power			
					Size	Offset	(dBm)	(W)		
LTE Band 2	20 MHz	QPSK	18700	1860.0	1	0	23.02	0.200		
					1	50	22.94	0.197		
					1	99	22.91	0.195		
					50	0	22.10	0.162		
					50	25	21.95	0.157		
					50	50	22.05	0.160		
			100	0	22.08	0.161				
			1	0	23.13	0.206				
			1	50	23.08	0.203				
			1	99	23.12	0.205				
			50	0	22.25	0.168				
			50	25	22.19	0.166				
			50	50	22.19	0.166				
			100	0	22.21	0.166				
			1	0	23.37	0.217				
			1	50	23.32	0.215				
			1	99	22.99	0.199				
			50	0	22.38	0.173				
			50	25	22.37	0.173				
			50	50	22.21	0.166				
			100	0	22.37	0.173				
			1	0	21.92	0.156				
			1	50	22.00	0.158				
			1	99	21.93	0.156				
		50	0	20.89	0.123					
		50	25	20.98	0.125					
		50	50	20.98	0.125					
		100	0	21.07	0.128					
		1	0	22.08	0.161					
		1	50	22.05	0.160					
		1	99	22.07	0.161					
		50	0	21.10	0.129					
		50	25	21.10	0.129					
		50	50	21.17	0.131					
		100	0	21.13	0.130					
		1	0	22.01	0.159					
		1	50	22.28	0.169					
		1	99	22.29	0.169					
		50	0	21.13	0.130					
		50	25	21.30	0.135					
		50	50	21.30	0.135					
		100	0	21.34	0.136					
		16QAM	18700	1860.0	18700	1860.0	1	0	21.92	0.156
							1	50	22.00	0.158
							1	99	21.93	0.156
							50	0	20.89	0.123
							50	25	20.98	0.125
							50	50	20.98	0.125
100	0		21.07	0.128						
1	0		22.08	0.161						
1	50		22.05	0.160						
1	99		22.07	0.161						
50	0		21.10	0.129						
50	25		21.10	0.129						
50	50		21.17	0.131						
100	0		21.13	0.130						
1	0		22.01	0.159						
1	50		22.28	0.169						
1	99		22.29	0.169						
50	0		21.13	0.130						
50	25		21.30	0.135						
50	50		21.30	0.135						
100	0		21.34	0.136						
19100	1900.0		19100	19100	1900.0	1	0	22.01	0.159	
						1	50	22.28	0.169	
						1	99	22.29	0.169	
		50				0	21.13	0.130		
		50				25	21.30	0.135		
		50				50	21.30	0.135		



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	1.4 MHz	QPSK	19957	1710.7	1	0	23.49	0.223
					1	3	23.42	0.220
					1	5	23.48	0.223
					3	0	23.46	0.222
					3	2	23.44	0.221
					3	3	23.43	0.220
			6	0	22.51	0.178		
			1	0	23.48	0.223		
			1	3	23.45	0.221		
			1	5	23.50	0.224		
			3	0	23.46	0.222		
			3	2	23.47	0.222		
			3	3	23.48	0.223		
			6	0	22.54	0.179		
			1	0	23.40	0.219		
			1	3	23.39	0.218		
			1	5	23.43	0.220		
			3	0	23.44	0.221		
			3	2	23.44	0.221		
			3	3	23.44	0.221		
			6	0	22.47	0.177		
			1	0	22.42	0.175		
			1	3	22.45	0.176		
			1	5	22.41	0.174		
		3	0	22.45	0.176			
		3	2	22.43	0.175			
		3	3	22.49	0.177			
		6	0	21.38	0.137			
		1	0	22.44	0.175			
		1	3	22.46	0.176			
		1	5	22.42	0.175			
		3	0	22.47	0.177			
		3	2	22.46	0.176			
		3	3	22.45	0.176			
		6	0	21.38	0.137			
		1	0	22.35	0.172			
		1	3	22.37	0.173			
		1	5	22.34	0.171			
		3	0	22.36	0.172			
		3	2	22.33	0.171			
		3	3	22.42	0.175			
		6	0	21.36	0.137			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	3 MHz	QPSK	19965	1711.5	1	0	23.43	0.220
					1	8	23.47	0.222
					1	14	23.42	0.220
					8	0	22.48	0.177
					8	4	22.44	0.175
					8	8	22.48	0.177
			15	0	22.51	0.178		
			1	0	23.43	0.220		
			1	8	23.42	0.220		
			1	14	23.42	0.220		
			8	0	22.51	0.178		
			8	4	22.46	0.176		
			8	8	22.47	0.177		
			15	0	22.47	0.177		
			1	0	23.45	0.221		
		1	8	23.32	0.215			
		1	14	23.38	0.218			
		8	0	22.51	0.178			
		8	4	22.41	0.174			
		8	8	22.42	0.175			
		15	0	22.45	0.176			
		1	0	22.42	0.175			
		1	8	22.36	0.172			
		1	14	22.43	0.175			
		8	0	21.48	0.141			
		8	4	21.51	0.142			
		8	8	21.48	0.141			
		15	0	21.45	0.140			
		1	0	22.40	0.174			
		1	8	22.42	0.175			
		1	14	22.39	0.173			
		8	0	21.49	0.141			
		8	4	21.51	0.142			
		8	8	21.47	0.140			
		15	0	21.45	0.140			
		1	0	22.38	0.173			
		1	8	22.30	0.170			
		1	14	22.33	0.171			
		8	0	21.49	0.141			
		8	4	21.45	0.140			
		8	8	21.41	0.138			
		15	0	21.37	0.137			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	5 MHz	QPSK	19975	1712.5	1	0	23.50	0.224
					1	13	23.48	0.223
					1	24	23.52	0.225
					12	0	22.59	0.182
					12	6	22.55	0.180
					12	13	22.53	0.179
			25	0	22.53	0.179		
			1	0	23.51	0.224		
			1	13	23.50	0.224		
			1	24	23.55	0.226		
			12	0	22.57	0.181		
			12	6	22.58	0.181		
			12	13	22.56	0.180		
			25	0	22.55	0.180		
			1	0	23.48	0.223		
			1	13	23.53	0.225		
			1	24	23.46	0.222		
			12	0	22.57	0.181		
		12	6	22.58	0.181			
		12	13	22.49	0.177			
		25	0	22.47	0.177			
		1	0	22.50	0.178			
		1	13	22.50	0.178			
		1	24	22.48	0.177			
		12	0	21.58	0.144			
		12	6	21.56	0.143			
		12	13	21.58	0.144			
		25	0	21.55	0.143			
		1	0	22.52	0.179			
		1	13	22.46	0.176			
		1	24	22.57	0.181			
		12	0	21.58	0.144			
		12	6	21.58	0.144			
		12	13	21.58	0.144			
		25	0	21.55	0.143			
		1	0	22.47	0.177			
1	13	22.48	0.177					
1	24	22.39	0.173					
12	0	21.58	0.144					
12	6	21.59	0.144					
12	13	21.51	0.142					
25	0	21.51	0.142					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	10 MHz	QPSK	2000	1715.0	1	0	23.52	0.225
					1	25	23.48	0.223
					1	49	23.46	0.222
					25	0	22.56	0.180
					25	13	22.57	0.181
					25	25	22.52	0.179
			50	0	22.67	0.185		
			1	0	23.58	0.228		
			1	25	23.50	0.224		
			1	49	23.56	0.227		
			25	0	22.57	0.181		
			25	13	22.54	0.179		
			25	25	22.54	0.179		
			50	0	22.68	0.185		
			1	0	23.52	0.225		
			1	25	23.50	0.224		
			1	49	23.49	0.223		
			25	0	22.51	0.178		
			25	13	22.57	0.181		
			25	25	22.56	0.180		
			50	0	22.65	0.184		
			1	0	22.52	0.179		
			1	25	22.46	0.176		
			1	49	22.47	0.177		
		25	0	21.60	0.145			
		25	13	21.59	0.144			
		25	25	21.52	0.142			
		50	0	21.56	0.143			
		1	0	22.49	0.177			
		1	25	22.52	0.179			
		1	49	22.63	0.183			
		25	0	21.55	0.143			
		25	13	21.57	0.144			
		25	25	21.56	0.143			
		50	0	21.60	0.145			
		1	0	22.52	0.179			
		1	25	22.46	0.176			
		1	49	22.42	0.175			
		25	0	21.59	0.144			
		25	13	21.57	0.144			
		25	25	21.61	0.145			
		50	0	21.57	0.144			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power		
					Size	Offset	(dBm)	(W)	
LTE Band 4	15 MHz	QPSK	20025	1717.5	1	0	23.56	0.227	
					1	38	23.49	0.223	
					1	74	23.48	0.223	
					38	0	22.57	0.181	
					38	18	22.54	0.179	
					38	38	22.52	0.179	
			20175	1732.5	75	0	22.62	0.183	
					1	0	23.54	0.226	
					1	38	23.53	0.225	
					1	74	23.50	0.224	
					38	0	22.59	0.182	
					38	18	22.62	0.183	
			20325	1747.5	38	38	22.62	0.183	
					75	0	22.67	0.185	
					1	0	23.58	0.228	
					1	38	23.46	0.222	
					1	74	23.46	0.222	
					38	0	22.56	0.180	
			16QAM	20025	1717.5	38	18	22.51	0.178
						38	38	22.54	0.179
						75	0	22.59	0.182
						1	0	22.58	0.181
						1	38	22.48	0.177
						1	74	22.48	0.177
		20175		1732.5	38	0	21.57	0.144	
					38	18	21.53	0.142	
					38	38	21.46	0.140	
					75	0	21.56	0.143	
					1	0	22.49	0.177	
					1	38	22.51	0.178	
		20325		1747.5	1	74	22.43	0.175	
					38	0	21.56	0.143	
					38	18	21.55	0.143	
					38	38	21.58	0.144	
					75	0	21.63	0.146	
					1	0	22.62	0.183	
		20025		1717.5	1	38	22.43	0.175	
					1	74	22.42	0.175	
					38	0	21.54	0.143	
					38	18	21.48	0.141	
					38	38	21.50	0.141	
					75	0	21.53	0.142	



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 4	20 MHz	QPSK	20050	1720.0	1	0	23.56	0.227
					1	50	23.47	0.222
					1	99	23.49	0.223
					50	0	22.64	0.184
					50	25	22.60	0.182
					50	50	22.57	0.181
					100	0	22.66	0.185
					1	0	23.54	0.226
			20175	1732.5	1	50	23.51	0.224
					1	99	23.45	0.221
					50	0	22.70	0.186
					50	25	22.62	0.183
					50	50	22.66	0.185
					100	0	22.67	0.185
					1	0	23.64	0.231
					1	50	23.51	0.224
			20300	1745.0	1	99	23.43	0.220
					50	0	22.74	0.188
					50	25	22.61	0.182
					50	50	22.57	0.181
					100	0	22.71	0.187
					1	0	22.55	0.180
					1	50	22.44	0.175
					1	99	22.43	0.175
		16QAM	20050	1720.0	50	0	21.55	0.143
					50	25	21.56	0.143
					50	50	21.51	0.142
					100	0	21.58	0.144
					1	0	22.52	0.179
					1	50	22.51	0.178
					1	99	22.47	0.177
					50	0	21.61	0.145
			20175	1732.5	50	25	21.57	0.144
					50	50	21.66	0.147
					100	0	21.66	0.147
					1	0	22.62	0.183
					1	50	22.49	0.177
					1	99	22.43	0.175
					50	0	21.64	0.146
					50	25	21.58	0.144
			20300	1745.0	50	50	21.56	0.143
					100	0	21.66	0.147



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	1.4 MHz	QPSK	20407	824.7	1	0	22.67	0.185
					1	3	22.65	0.184
					1	5	22.68	0.185
					3	0	22.69	0.186
					3	2	22.70	0.186
					3	3	22.65	0.184
			6	0	21.73	0.149		
			1	0	22.43	0.175		
			1	3	22.41	0.174		
			1	5	22.41	0.174		
			3	0	22.46	0.176		
			3	2	22.39	0.173		
			3	3	22.39	0.173		
			6	0	21.48	0.141		
			1	0	22.36	0.172		
			1	3	22.35	0.172		
			1	5	22.38	0.173		
			3	0	22.37	0.173		
		3	2	22.34	0.171			
		3	3	22.35	0.172			
		6	0	21.39	0.138			
		1	0	21.65	0.146			
		1	3	21.62	0.145			
		1	5	21.61	0.145			
		3	0	21.64	0.146			
		3	2	21.60	0.145			
		3	3	21.62	0.145			
		6	0	20.52	0.113			
		1	0	21.38	0.137			
		1	3	21.33	0.136			
		1	5	21.38	0.137			
		3	0	21.39	0.138			
		3	2	21.41	0.138			
		3	3	21.39	0.138			
		6	0	20.33	0.108			
		1	0	21.35	0.136			
1	3	21.28	0.134					
1	5	21.31	0.135					
3	0	21.35	0.136					
3	2	21.36	0.137					
3	3	21.35	0.136					
6	0	20.26	0.106					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	3 MHz	QPSK	20415	825.5	1	0	22.88	0.194
					1	8	22.86	0.193
					1	14	22.84	0.192
					8	0	21.67	0.147
					8	4	21.62	0.145
					8	8	21.66	0.147
			15	0	21.64	0.146		
			1	0	22.64	0.184		
			1	8	22.63	0.183		
			1	14	22.63	0.183		
			8	0	21.44	0.139		
			8	4	21.38	0.137		
			8	8	21.41	0.138		
			15	0	21.38	0.137		
			1	0	22.55	0.180		
			1	8	22.42	0.175		
			1	14	22.54	0.179		
			8	0	21.39	0.138		
		8	4	21.35	0.136			
		8	8	21.37	0.137			
		15	0	21.41	0.138			
		1	0	21.58	0.144			
		1	8	21.48	0.141			
		1	14	21.56	0.143			
		8	0	20.64	0.116			
		8	4	20.61	0.115			
		8	8	20.61	0.115			
		15	0	20.56	0.114			
		1	0	21.31	0.135			
		1	8	21.29	0.135			
		1	14	21.31	0.135			
		8	0	20.39	0.109			
		8	4	20.44	0.111			
		8	8	20.38	0.109			
		15	0	20.37	0.109			
		1	0	21.23	0.133			
1	8	21.26	0.134					
1	14	21.31	0.135					
8	0	20.39	0.109					
8	4	20.36	0.109					
8	8	20.35	0.108					
15	0	20.31	0.107					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 5	5 MHz	QPSK	20425	826.5	1	0	22.81	0.191
					1	13	22.80	0.191
					1	24	22.72	0.187
					12	0	21.62	0.145
					12	6	21.59	0.144
					12	13	21.61	0.145
			25	0	21.61	0.145		
			1	0	22.61	0.182		
			1	13	22.59	0.182		
			1	24	22.54	0.179		
			12	0	21.43	0.139		
			12	6	21.42	0.139		
			12	13	21.41	0.138		
			25	0	21.37	0.137		
			1	0	22.58	0.181		
			1	13	22.42	0.175		
			1	24	22.43	0.175		
			12	0	21.33	0.136		
		12	6	21.28	0.134			
		12	13	21.25	0.133			
		25	0	21.35	0.136			
		1	0	21.55	0.143			
		1	13	21.49	0.141			
		1	24	21.43	0.139			
		12	0	20.63	0.116			
		12	6	20.61	0.115			
		12	13	20.62	0.115			
		25	0	20.64	0.116			
		1	0	21.34	0.136			
		1	13	21.29	0.135			
		1	24	21.28	0.134			
		12	0	20.40	0.110			
		12	6	20.38	0.109			
		12	13	20.38	0.109			
		25	0	20.36	0.109			
		1	0	21.16	0.131			
1	13	21.13	0.130					
1	24	21.28	0.134					
12	0	20.27	0.106					
12	6	20.25	0.106					
12	13	20.35	0.108					
25	0	20.34	0.108					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power			
					Size	Offset	(dBm)	(W)		
LTE Band 5	10 MHz	QPSK	20450	829.0	1	0	22.77	0.189		
					1	25	22.68	0.185		
					1	49	22.59	0.182		
					25	0	21.67	0.147		
					25	13	21.56	0.143		
					25	25	21.53	0.142		
			50	0	21.52	0.142				
			20525	836.5	1	0	22.67	0.185		
					1	25	22.57	0.181		
					1	49	22.52	0.179		
					25	0	21.43	0.139		
					25	13	21.37	0.137		
					25	25	21.36	0.137		
			50	0	21.42	0.139				
			20600	844.0	1	0	22.55	0.180		
					1	25	22.43	0.175		
					1	49	22.54	0.179		
					25	0	21.40	0.138		
		25			13	21.24	0.133			
		25			25	21.38	0.137			
		50	0	21.44	0.139					
		16QAM	20450	829.0	1	0	21.53	0.142		
					1	25	21.42	0.139		
					1	49	21.37	0.137		
					25	0	20.62	0.115		
					25	13	20.51	0.112		
					25	25	20.50	0.112		
					50	0	20.49	0.112		
					20525	836.5	1	0	21.48	0.141
							1	25	21.32	0.136
							1	49	21.28	0.134
							25	0	20.39	0.109
							25	13	20.39	0.109
			25	25			20.40	0.110		
			50	0	20.38	0.109				
			20600	844.0	1	0	21.33	0.136		
					1	25	21.16	0.131		
					1	49	21.31	0.135		
					25	0	20.37	0.109		
					25	13	20.24	0.106		
					25	25	20.36	0.109		
			50	0	20.37	0.109				



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	5 MHz	QPSK	20800	2505.0	1	0	22.89	0.195
					1	25	22.83	0.192
					1	49	22.86	0.193
					25	0	21.89	0.155
					25	13	21.88	0.154
					25	25	21.81	0.152
			50	0	21.80	0.151		
			1	0	22.77	0.189		
			1	25	22.87	0.194		
			1	49	22.88	0.194		
			25	0	21.88	0.154		
			25	13	21.88	0.154		
			25	25	21.88	0.154		
			50	0	21.90	0.155		
			1	0	22.86	0.193		
			1	25	22.87	0.194		
			1	49	22.82	0.191		
			25	0	21.85	0.153		
		25	13	21.85	0.153			
		25	25	21.83	0.152			
		50	0	21.82	0.152			
		1	0	21.81	0.152			
		1	25	21.73	0.149			
		1	49	21.77	0.150			
		25	0	20.90	0.123			
		25	13	20.91	0.123			
		25	25	20.84	0.121			
		50	0	20.83	0.121			
		1	0	21.72	0.149			
		1	25	21.81	0.152			
		1	49	21.84	0.153			
		25	0	20.94	0.124			
		25	13	20.90	0.123			
		25	25	20.94	0.124			
		50	0	20.90	0.123			
		1	0	21.80	0.151			
		1	25	21.82	0.152			
		1	49	21.79	0.151			
		25	0	21.00	0.126			
		25	13	21.01	0.126			
		25	25	20.95	0.124			
		50	0	20.90	0.123			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	10 MHz	QPSK	20800	2505.0	1	0	22.89	0.195
					1	25	22.83	0.192
					1	49	22.86	0.193
					25	0	21.89	0.155
					25	13	21.88	0.154
					25	25	21.81	0.152
			50	0	21.80	0.151		
			21100	2535.0	1	0	22.77	0.189
					1	25	22.87	0.194
					1	49	22.88	0.194
					25	0	21.88	0.154
					25	13	21.88	0.154
					25	25	21.88	0.154
			50	0	21.90	0.155		
			21400	2565.0	1	0	22.86	0.193
					1	25	22.87	0.194
					1	49	22.82	0.191
					25	0	21.85	0.153
		25			13	21.85	0.153	
		25			25	21.83	0.152	
		50	0	21.82	0.152			
		16QAM	20800	2505.0	1	0	21.81	0.152
					1	25	21.73	0.149
					1	49	21.77	0.150
					25	0	20.90	0.123
					25	13	20.91	0.123
					25	25	20.84	0.121
			50	0	20.83	0.121		
			21100	2535.0	1	0	21.72	0.149
					1	25	21.81	0.152
					1	49	21.84	0.153
					25	0	20.94	0.124
					25	13	20.90	0.123
					25	25	20.94	0.124
			50	0	20.90	0.123		
			21400	2565.0	1	0	21.80	0.151
					1	25	21.82	0.152
					1	49	21.79	0.151
					25	0	21.00	0.126
		25			13	21.01	0.126	
		25			25	20.95	0.124	
		50	0	20.90	0.123			



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	15 MHz	QPSK	20850	2510.0	1	0	23.03	0.201
					1	50	22.92	0.196
					1	99	22.89	0.195
					50	0	21.86	0.153
					50	25	21.79	0.151
					50	50	21.78	0.151
			100	0	21.85	0.153		
			21100	2535.0	1	0	22.99	0.199
					1	50	22.87	0.194
					1	99	22.75	0.188
					50	0	21.89	0.155
					50	25	21.78	0.151
					50	50	21.75	0.150
			100	0	21.87	0.154		
			21350	2560.0	1	0	22.89	0.195
					1	50	22.76	0.189
					1	99	22.88	0.194
					50	0	21.85	0.153
		50			25	21.84	0.153	
		50			50	21.73	0.149	
		100	0	21.84	0.153			
		16QAM	20850	2510.0	1	0	21.77	0.150
					1	50	21.85	0.153
					1	99	21.92	0.156
					50	0	20.83	0.121
					50	25	20.82	0.121
					50	50	20.96	0.125
			100	0	20.94	0.124		
			21100	2535.0	1	0	21.63	0.146
					1	50	21.81	0.152
					1	99	21.90	0.155
					50	0	20.84	0.121
					50	25	20.89	0.123
					50	50	20.96	0.125
			100	0	20.93	0.124		
			21350	2560.0	1	0	21.73	0.149
1	50				21.82	0.152		
1	99				21.77	0.150		
50	0				20.84	0.121		
50	25	20.91			0.123			
50	50	20.94			0.124			
100	0	20.91	0.123					



Band	Channel Bandwidth	Modulation	Channel	Frequency (MHz)	RB Configuration		Average Power	
					Size	Offset	(dBm)	(W)
LTE Band 7	20 MHz	QPSK	20850	2510.0	1	0	23.03	0.201
					1	50	22.92	0.196
					1	99	22.89	0.195
					50	0	21.86	0.153
					50	25	21.79	0.151
					50	50	21.78	0.151
			21100	2535.0	100	0	21.85	0.153
					1	0	22.99	0.199
					1	50	22.87	0.194
					1	99	22.75	0.188
					50	0	21.89	0.155
					50	25	21.78	0.151
			21350	2560.0	50	50	21.75	0.150
					100	0	21.87	0.154
					1	0	22.89	0.195
					1	50	22.76	0.189
					1	99	22.88	0.194
					50	0	21.85	0.153
		16QAM	20850	2510.0	50	25	21.84	0.153
					50	50	21.73	0.149
					100	0	21.84	0.153
					1	0	21.77	0.150
					1	50	21.85	0.153
					1	99	21.92	0.156
			21100	2535.0	50	0	20.83	0.121
					50	25	20.82	0.121
					50	50	20.96	0.125
					100	0	20.94	0.124
					1	0	21.63	0.146
					1	50	21.81	0.152
			21350	2560.0	1	99	21.90	0.155
					50	0	20.84	0.121
					50	25	20.89	0.123
					50	50	20.96	0.125
					100	0	20.93	0.124
					1	0	21.73	0.149
20850	2510.0	1	50	21.82	0.152			
		1	99	21.77	0.150			
		50	0	20.84	0.121			
		50	25	20.91	0.123			
		50	50	20.94	0.124			
		100	0	20.91	0.123			

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

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

For FCC Part 27.50(b)(9): Control stations and mobile stations transmitting in the 746-757 MHz, and 776-788 MHz bands are limited to 30 watts ERP.

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

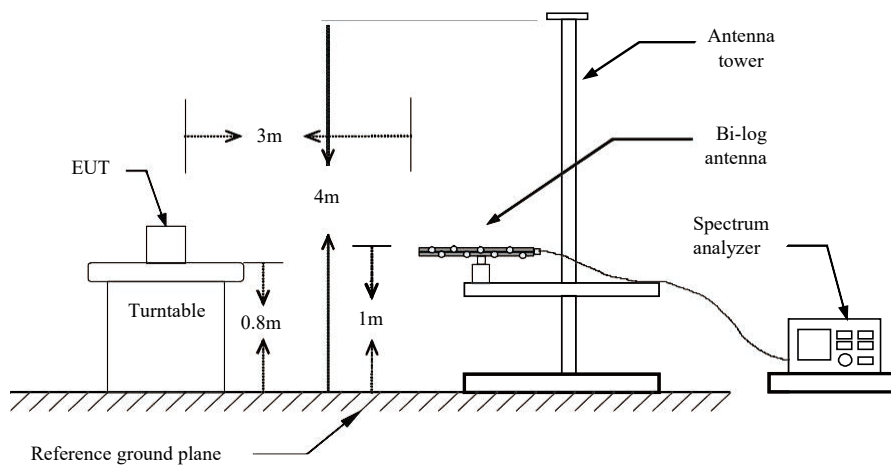
For FCC Part 27.50(h)(2): Mobile stations are limited to 2.0 watts EIRP.

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

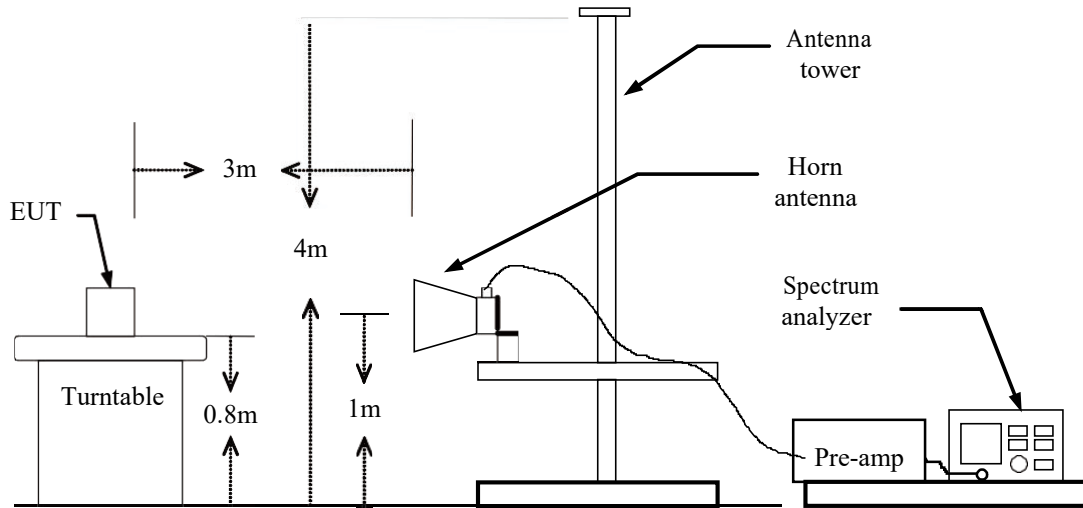
For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.2. Test Setup

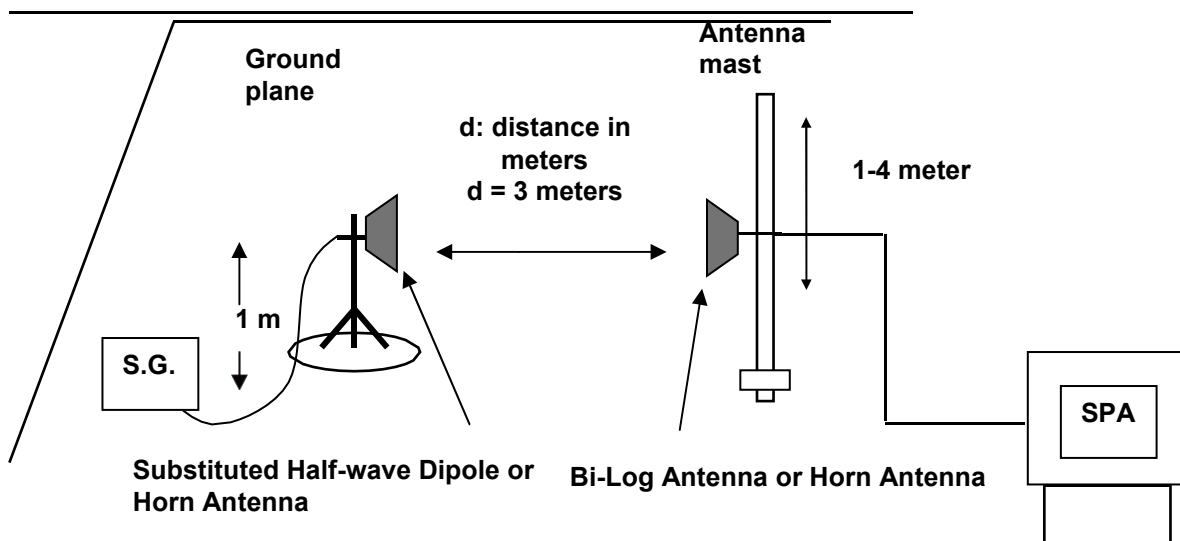
Below 1 GHz



Above 1 GHz



For Substituted Method Test Set-UP





3.3. Test Procedure

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE mode.
- 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 horn antenna 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. $E.I.R.P. = \text{Output power level of S.G TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P. = E.I.R.P - 2.15 \text{ dB}$



3.4. Test Result

LTE Band 2								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4 M	QPSK	1850.7	H	13.77	6.33	20.10	0.102	< 2
			V	17.08	6.33	23.41	0.219	< 2
		1880.0	H	13.42	6.55	19.97	0.099	< 2
			V	16.60	6.55	23.15	0.207	< 2
		1909.3	H	13.56	6.79	20.35	0.108	< 2
			V	16.24	6.79	23.03	0.201	< 2
	16QAM	1850.7	H	12.38	6.33	18.71	0.074	< 2
			V	15.34	6.33	21.67	0.147	< 2
		1880.0	H	11.88	6.54	18.42	0.070	< 2
			V	15.41	6.55	21.96	0.157	< 2
		1909.3	H	12.53	6.79	19.32	0.086	< 2
			V	15.09	6.79	21.88	0.154	< 2
3 MHz	QPSK	1851.5	H	13.84	6.33	20.17	0.104	< 2
			V	17.03	6.33	23.36	0.217	< 2
		1880.0	H	13.88	6.55	20.43	0.110	< 2
			V	16.46	6.55	23.01	0.200	< 2
		1908.5	H	12.53	6.77	19.30	0.085	< 2
			V	16.31	6.77	23.08	0.203	< 2
	16QAM	1851.5	H	12.28	6.34	18.62	0.073	< 2
			V	15.01	6.33	21.34	0.136	< 2
		1880.0	H	12.24	6.55	18.79	0.076	< 2
			V	14.70	6.55	21.25	0.133	< 2
		1908.5	H	11.90	6.76	18.66	0.073	< 2
			V	14.37	6.77	21.14	0.130	< 2
5 MHz	QPSK	1852.5	H	14.48	6.33	20.81	0.121	< 2
			V	17.00	6.33	23.33	0.215	< 2
		1880.0	H	13.90	6.54	20.44	0.111	< 2
			V	16.41	6.54	22.95	0.197	< 2
		1907.5	H	13.66	6.75	20.41	0.110	< 2
			V	16.27	6.75	23.02	0.200	< 2
	16QAM	1852.5	H	12.98	6.33	19.31	0.085	< 2
			V	15.79	6.33	22.12	0.163	< 2
		1880.0	H	12.64	6.54	19.18	0.083	< 2
			V	15.32	6.54	21.86	0.153	< 2
		1907.5	H	12.55	6.75	19.30	0.085	< 2
			V	14.76	6.75	21.51	0.142	< 2



LTE Band 2								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
10 M	QPSK	1855.0	H	14.35	6.34	20.69	0.117	< 2
			V	17.17	6.33	23.50	0.224	< 2
		1880.0	H	13.58	6.53	20.11	0.103	< 2
			V	16.33	6.53	22.86	0.193	< 2
		1905.0	H	13.58	6.71	20.29	0.107	< 2
			V	16.48	6.72	23.20	0.209	< 2
	16QAM	1855.0	H	12.86	6.33	19.19	0.083	< 2
			V	16.02	6.33	22.35	0.172	< 2
		1880.0	H	12.14	6.53	18.67	0.074	< 2
			V	14.79	6.53	21.32	0.136	< 2
		1905.0	H	12.17	6.72	18.89	0.077	< 2
			V	15.12	6.71	21.83	0.152	< 2
15 MHz	QPSK	1857.5	H	13.85	6.34	20.19	0.104	< 2
			V	17.18	6.34	23.52	0.225	< 2
		1880.0	H	13.75	6.52	20.27	0.106	< 2
			V	16.45	6.51	22.96	0.198	< 2
		1902.5	H	12.58	6.69	19.27	0.085	< 2
			V	16.35	6.69	23.04	0.201	< 2
	16QAM	1857.5	H	12.43	6.34	18.77	0.075	< 2
			V	15.64	6.34	21.98	0.158	< 2
		1880.0	H	12.36	6.51	18.87	0.077	< 2
			V	14.91	6.52	21.43	0.139	< 2
		1902.5	H	11.51	6.68	18.19	0.066	< 2
			V	15.23	6.68	21.91	0.155	< 2
20 MHz	QPSK	1860.0	H	13.96	6.34	20.30	0.107	< 2
			V	17.19	6.34	23.53	0.225	< 2
		1880.0	H	13.53	6.49	20.02	0.100	< 2
			V	16.48	6.49	22.97	0.198	< 2
		1900.0	H	13.82	6.64	20.46	0.111	< 2
			V	16.47	6.64	23.11	0.205	< 2
	16QAM	1860.0	H	12.56	6.34	18.90	0.078	< 2
			V	15.79	6.34	22.13	0.163	< 2
		1880.0	H	12.65	6.49	19.14	0.082	< 2
			V	15.09	6.49	21.58	0.144	< 2
		1900.0	H	12.68	6.64	19.32	0.086	< 2
			V	15.28	6.64	21.92	0.156	< 2



LTE Band 4								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
1.4 M	QPSK	1710.7	H	16.30	5.26	21.56	0.143	< 1
			V	18.07	5.26	23.33	0.215	< 1
		1732.5	H	15.28	5.44	20.72	0.118	< 1
			V	17.69	5.43	23.12	0.205	< 1
		1754.3	H	14.75	5.59	20.34	0.108	< 1
			V	17.43	5.59	23.02	0.200	< 1
	16QAM	1710.7	H	14.85	5.26	20.11	0.103	< 1
			V	16.82	5.26	22.08	0.161	< 1
		1732.5	H	13.81	5.43	19.24	0.084	< 1
			V	16.49	5.43	21.92	0.156	< 1
		1754.3	H	13.42	5.60	19.02	0.080	< 1
			V	16.27	5.59	21.86	0.153	< 1
3 MHz	QPSK	1711.5	H	16.11	5.26	21.37	0.137	< 1
			V	17.92	5.26	23.18	0.208	< 1
		1732.5	H	15.37	5.43	20.80	0.120	< 1
			V	17.74	5.42	23.16	0.207	< 1
		1753.5	H	15.57	5.58	21.15	0.130	< 1
			V	17.49	5.58	23.07	0.203	< 1
	16QAM	1711.5	H	14.53	5.26	19.79	0.095	< 1
			V	16.76	5.26	22.02	0.159	< 1
		1732.5	H	14.21	5.43	19.64	0.092	< 1
			V	16.46	5.43	21.89	0.155	< 1
		1753.5	H	14.27	5.58	19.85	0.097	< 1
			V	15.70	5.58	21.28	0.134	< 1
5 MHz	QPSK	1712.5	H	16.05	5.26	21.31	0.135	< 1
			V	17.96	5.26	23.22	0.210	< 1
		1732.5	H	15.40	5.41	20.81	0.121	< 1
			V	17.67	5.41	23.08	0.203	< 1
		1752.5	H	15.57	5.57	21.14	0.130	< 1
			V	17.40	5.57	22.97	0.198	< 1
	16QAM	1712.5	H	14.53	5.26	19.79	0.095	< 1
			V	16.62	5.26	21.88	0.154	< 1
		1732.5	H	14.37	5.41	19.78	0.095	< 1
			V	16.06	5.41	21.47	0.140	< 1
		1752.5	H	13.71	5.57	19.28	0.085	< 1
			V	15.89	5.57	21.46	0.140	< 1



LTE Band 4								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
10 M	QPSK	1715.0	H	15.84	5.26	21.10	0.129	< 1
			V	18.02	5.26	23.28	0.213	< 1
		1732.5	H	15.89	5.39	21.28	0.134	< 1
			V	17.76	5.39	23.15	0.207	< 1
		1750.0	H	15.96	5.54	21.50	0.141	< 1
			V	17.57	5.54	23.11	0.205	< 1
	16QAM	1715.0	H	14.65	5.27	19.92	0.098	< 1
			V	16.49	5.27	21.76	0.150	< 1
		1732.5	H	13.86	5.39	19.25	0.084	< 1
			V	16.09	5.39	21.48	0.141	< 1
		1750.0	H	13.88	5.54	19.42	0.087	< 1
			V	16.15	5.54	21.69	0.148	< 1
15 MHz	QPSK	1717.5	H	15.94	5.27	21.21	0.132	< 1
			V	17.82	5.27	23.09	0.204	< 1
		1732.5	H	15.89	5.38	21.27	0.134	< 1
			V	17.82	5.38	23.20	0.209	< 1
		1747.5	H	15.36	5.49	20.85	0.122	< 1
			V	17.58	5.49	23.07	0.203	< 1
	16QAM	1717.5	H	14.51	5.27	19.78	0.095	< 1
			V	15.78	5.27	21.05	0.127	< 1
		1732.5	H	14.52	5.38	19.90	0.098	< 1
			V	15.73	5.38	21.11	0.129	< 1
		1747.5	H	14.27	5.49	19.76	0.095	< 1
			V	15.89	5.49	21.38	0.137	< 1
20 MHz	QPSK	1720.0	H	15.82	5.27	21.09	0.129	< 1
			V	18.11	5.27	23.38	0.218	< 1
		1732.5	H	15.80	5.37	21.17	0.131	< 1
			V	17.84	5.37	23.21	0.209	< 1
		1745.0	H	15.83	5.45	21.28	0.134	< 1
			V	16.57	5.46	22.03	0.160	< 1
	16QAM	1720.0	H	14.40	5.27	19.67	0.093	< 1
			V	16.12	5.27	21.39	0.138	< 1
		1732.5	H	14.15	5.36	19.51	0.089	< 1
			V	16.07	5.36	21.43	0.139	< 1
		1745.0	H	13.87	5.45	19.32	0.086	< 1
			V	16.15	5.45	21.60	0.145	< 1



LTE Band 5								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
1.4 M	QPSK	824.7	H	9.55	10.81	20.36	0.109	< 7
			V	12.04	10.81	22.85	0.193	< 7
		836.5	H	9.37	10.82	20.19	0.104	< 7
			V	11.98	10.82	22.80	0.191	< 7
		848.3	H	9.31	10.90	20.21	0.105	< 7
			V	11.53	10.90	22.43	0.175	< 7
	16QAM	824.7	H	8.37	10.81	19.18	0.083	< 7
			V	10.55	10.82	21.37	0.137	< 7
		836.5	H	8.28	10.82	19.10	0.081	< 7
			V	10.84	10.82	21.66	0.147	< 7
		848.3	H	8.61	10.90	19.51	0.089	< 7
			V	10.43	10.90	21.33	0.136	< 7
3 MHz	QPSK	825.5	H	9.98	10.81	20.79	0.120	< 7
			V	11.81	10.81	22.62	0.183	< 7
		836.5	H	10.11	10.81	20.92	0.124	< 7
			V	12.05	10.81	22.86	0.193	< 7
		847.5	H	10.07	10.87	20.94	0.124	< 7
			V	11.97	10.87	22.84	0.192	< 7
	16QAM	825.5	H	8.54	10.81	19.35	0.086	< 7
			V	10.51	10.82	21.33	0.136	< 7
		836.5	H	8.76	10.81	19.57	0.091	< 7
			V	10.84	10.81	21.65	0.146	< 7
		847.5	H	8.73	10.87	19.60	0.091	< 7
			V	10.75	10.87	21.62	0.145	< 7
5 MHz	QPSK	826.5	H	10.05	10.82	20.87	0.122	< 7
			V	11.99	10.82	22.81	0.191	< 7
		836.5	H	10.08	10.82	20.90	0.123	< 7
			V	11.92	10.82	22.74	0.188	< 7
		846.5	H	9.85	10.85	20.70	0.117	< 7
			V	11.99	10.86	22.85	0.193	< 7
	16QAM	826.5	H	8.62	10.82	19.44	0.088	< 7
			V	10.87	10.81	21.68	0.147	< 7
		836.5	H	8.89	10.82	19.71	0.094	< 7
			V	10.76	10.82	21.58	0.144	< 7
		846.5	H	8.58	10.86	19.44	0.088	< 7
			V	10.88	10.86	21.74	0.149	< 7



LTE Band 5								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.R.P.		Limit (W)
						(dBm)	(W)	
10 M	QPSK	829.0	H	10.06	10.82	20.88	0.122	< 7
			V	12.15	10.82	22.97	0.198	< 7
		836.5	H	10.01	10.81	20.82	0.121	< 7
			V	11.64	10.81	22.45	0.176	< 7
		844.0	H	10.09	10.82	20.91	0.123	< 7
			V	12.12	10.82	22.94	0.197	< 7
	16QAM	829.0	H	8.94	10.82	19.76	0.095	< 7
			V	10.96	10.82	21.78	0.151	< 7
		836.5	H	8.86	10.81	19.67	0.093	< 7
			V	10.47	10.81	21.28	0.134	< 7
		844.0	H	8.69	10.82	19.51	0.089	< 7
			V	10.98	10.82	21.80	0.151	< 7



LTE Band 7								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
5 M	QPSK	2502.5	H	11.42	10.16	21.58	0.144	< 2
			V	13.30	10.16	23.46	0.222	< 2
		2535.0	H	10.91	10.41	21.32	0.136	< 2
			V	12.98	10.41	23.39	0.218	< 2
		2567.5	H	11.18	10.65	21.83	0.152	< 2
			V	12.42	10.65	23.07	0.203	< 2
	16QAM	2502.5	H	9.57	10.16	19.73	0.094	< 2
			V	11.14	10.16	21.30	0.135	< 2
		2535.0	H	8.83	10.41	19.24	0.084	< 2
			V	10.93	10.41	21.34	0.136	< 2
		2567.5	H	8.96	10.65	19.61	0.091	< 2
			V	11.14	10.65	21.79	0.151	< 2
10 MHz	QPSK	2502.5	H	11.06	10.16	21.22	0.132	< 2
			V	13.20	10.17	23.37	0.217	< 2
		2535.0	H	10.50	10.38	20.88	0.122	< 2
			V	12.67	10.38	23.05	0.202	< 2
		2567.5	H	10.18	10.62	20.80	0.120	< 2
			V	12.54	10.62	23.16	0.207	< 2
	16QAM	2502.5	H	9.22	10.17	19.39	0.087	< 2
			V	11.03	10.16	21.19	0.132	< 2
		2535.0	H	9.40	10.38	19.78	0.095	< 2
			V	11.34	10.38	21.72	0.149	< 2
		2567.5	H	9.15	10.62	19.77	0.095	< 2
			V	11.11	10.62	21.73	0.149	< 2
15 MHz	QPSK	2502.5	H	11.60	10.17	21.77	0.150	< 2
			V	12.96	10.17	23.13	0.206	< 2
		2535.0	H	10.30	10.38	20.68	0.117	< 2
			V	12.78	10.38	23.16	0.207	< 2
		2567.5	H	9.76	10.58	20.34	0.108	< 2
			V	12.39	10.58	22.97	0.198	< 2
	16QAM	2502.5	H	9.40	10.17	19.57	0.091	< 2
			V	10.83	10.17	21.00	0.126	< 2
		2535.0	H	8.93	10.38	19.31	0.085	< 2
			V	11.55	10.38	21.93	0.156	< 2
		2567.5	H	8.53	10.58	19.11	0.081	< 2
			V	11.25	10.58	21.83	0.152	< 2



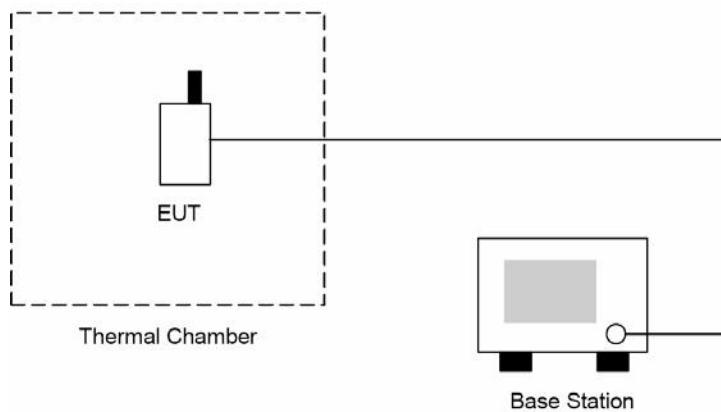
LTE Band 7								
Channel Bandwidth	Modulation	Frequency (MHz)	Ant. Polar.	Read Level (dBm)	Correction Factor (dBm)	E.I.R.P.		Limit (W)
						(dBm)	(W)	
20 M	QPSK	2502.5	H	11.50	10.17	21.67	0.147	< 2
			V	13.04	10.17	23.21	0.209	< 2
		2535.0	H	10.46	10.36	20.82	0.121	< 2
			V	12.71	10.36	23.07	0.203	< 2
		2567.5	H	10.63	10.55	21.18	0.131	< 2
			V	12.56	10.55	23.11	0.205	< 2
	16QAM	2502.5	H	9.35	10.17	19.52	0.090	< 2
			V	11.04	10.17	21.21	0.132	< 2
		2535.0	H	9.46	10.36	19.82	0.096	< 2
			V	10.82	10.36	21.18	0.131	< 2
		2567.5	H	9.01	10.55	19.56	0.090	< 2
			V	11.29	10.55	21.84	0.153	< 2

4 Frequency Stability Test

4.1. 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) $-30^{\circ}\text{C} \sim 50^{\circ}\text{C}$.

4.2. Setup





4.3. Test Procedure

The measurement is made according to FCC rules:

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°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°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.



4.4. Test Result

LTE Band 2 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	138	20	-2	-0.001	± 2.5
		120	20	6	0.003	± 2.5
		102	20	3	0.002	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1880.0	120	-30	-4	-0.002	± 2.5
		120	-20	-2	-0.001	± 2.5
		120	-10	1	0.001	± 2.5
		120	0	3	0.002	± 2.5
		120	10	5	0.003	± 2.5
		120	20	-3	-0.002	± 2.5
		120	30	-6	-0.003	± 2.5
		120	40	-9	-0.005	± 2.5
120	50	-3	-0.002	± 2.5		

LTE Band 4 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	138	20	-10	-0.006	± 2.5
		120	20	3	0.002	± 2.5
		102	20	-5	-0.003	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	1732.5	120	-30	-11	-0.006	± 2.5
		120	-20	-6	-0.003	± 2.5
		120	-10	-1	-0.001	± 2.5
		120	0	13	0.008	± 2.5
		120	10	1	0.001	± 2.5
		120	20	12	0.007	± 2.5
		120	30	-5	-0.003	± 2.5
		120	40	-10	-0.006	± 2.5
120	50	-1	-0.001	± 2.5		



LTE Band 5 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	836.5	138	20	-1	-0.001	± 2.5
		120	20	-2	-0.002	± 2.5
		102	20	-7	-0.008	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
10 MHz	836.5	120	-30	-2	-0.002	± 2.5
		120	-20	0	0.000	± 2.5
		120	-10	11	0.013	± 2.5
		120	0	5	0.006	± 2.5
		120	10	7	0.008	± 2.5
		120	20	8	0.010	± 2.5
		120	30	3	0.004	± 2.5
		120	40	-1	-0.001	± 2.5
120	50	-6	-0.007	± 2.5		

LTE Band 7 _ QPSK						
Voltage						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	2535.0	138	20	5	0.002	± 2.5
		120	20	5	0.002	± 2.5
		102	20	6	0.002	± 2.5
Temperature						
Channel Bandwidth	Frequency (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
20 MHz	2535.0	120	-30	-3	-0.001	± 2.5
		120	-20	-11	-0.004	± 2.5
		120	-10	10	0.004	± 2.5
		120	0	-3	-0.001	± 2.5
		120	10	1	0.000	± 2.5
		120	20	10	0.004	± 2.5
		120	30	-1	0.000	± 2.5
		120	40	-14	-0.006	± 2.5
120	50	-4	-0.002	± 2.5		

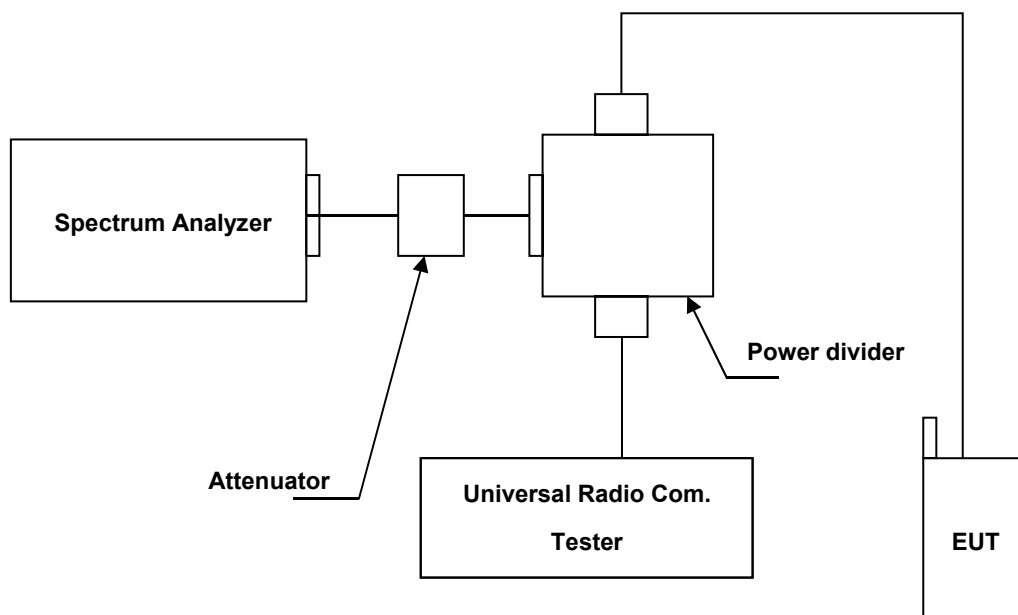
5 Emission Bandwidth & Occupied Bandwidth Test

5.1. 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.

5.2. Setup





5.3. Test Procedure

The measurement is made according to FCC rules:

- a. 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.)
- b. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. 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.



5.4. Test Result

LTE Band 2				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1850.7	1.312	1.1263
		1880.0	1.314	1.1151
		1909.3	1.306	1.1246
	3 MHz	1851.5	3.033	2.7329
		1880.0	3.050	2.7425
		1908.5	3.026	2.7396
	5 MHz	1852.5	5.062	4.5271
		1880.0	5.059	4.5476
		1907.5	5.025	4.5261
	10 MHz	1855.0	10.12	9.0437
		1880.0	10.18	9.0808
		1905.0	10.18	9.0603
	15 MHz	1857.5	14.83	13.486
		1880.0	15.01	13.537
		1902.5	14.83	13.510
	20 MHz	1860.0	19.43	17.938
		1880.0	19.32	17.937
		1900.0	19.48	17.906
16QAM	1.4 MHz	1850.7	1.291	1.113
		1880.0	1.300	1.123
		1909.3	1.311	1.115
	3 MHz	1851.5	3.025	2.737
		1880.0	3.021	2.742
		1908.5	3.018	2.729
	5 MHz	1852.5	5.067	4.556
		1880.0	5.030	4.525
		1907.5	5.105	4.541
	10 MHz	1855.0	10.06	9.039
		1880.0	10.10	9.078
		1905.0	10.05	9.064
	15 MHz	1857.5	13.51	14.88
		1880.0	13.54	14.89
		1902.5	13.50	14.69
	20 MHz	1860.0	17.94	19.50
		1880.0	17.96	19.31
		1900.0	17.91	19.36



LTE Band 4				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	1710.7	1.301	1.1088
		1732.5	1.313	1.1236
		1754.3	1.309	1.1110
	3 MHz	1711.5	3.009	2.7547
		1732.5	3.041	2.7786
		1753.5	3.046	2.7545
	5 MHz	1712.5	5.080	4.5096
		1732.5	5.053	4.5211
		1752.5	4.990	4.5093
	10 MHz	1715.0	10.011	9.0306
		1732.5	9.885	9.0144
		1750.0	9.995	9.0152
	15 MHz	1717.5	14.756	13.4661
		1732.5	14.620	13.4983
		1747.5	14.553	13.4160
	20 MHz	1720.0	19.193	17.8990
		1732.5	19.288	17.9087
		1745.0	19.441	17.8692
16QAM	1.4 MHz	1710.7	1.297	1.1112
		1732.5	1.276	1.1153
		1754.3	1.300	1.1192
	3 MHz	1711.5	2.983	2.7363
		1732.5	3.022	2.7334
		1753.5	3.036	2.7335
	5 MHz	1712.5	5.024	4.5231
		1732.5	5.051	4.5058
		1752.5	5.047	4.5374
	10 MHz	1715.0	9.979	9.0343
		1732.5	9.942	9.0097
		1750.0	10.058	9.0050
	15 MHz	1717.5	14.511	13.5163
		1732.5	14.772	13.4734
		1747.5	14.628	13.4787
	20 MHz	1720.0	19.287	17.9136
		1732.5	19.211	17.8931
		1745.0	19.302	17.8845



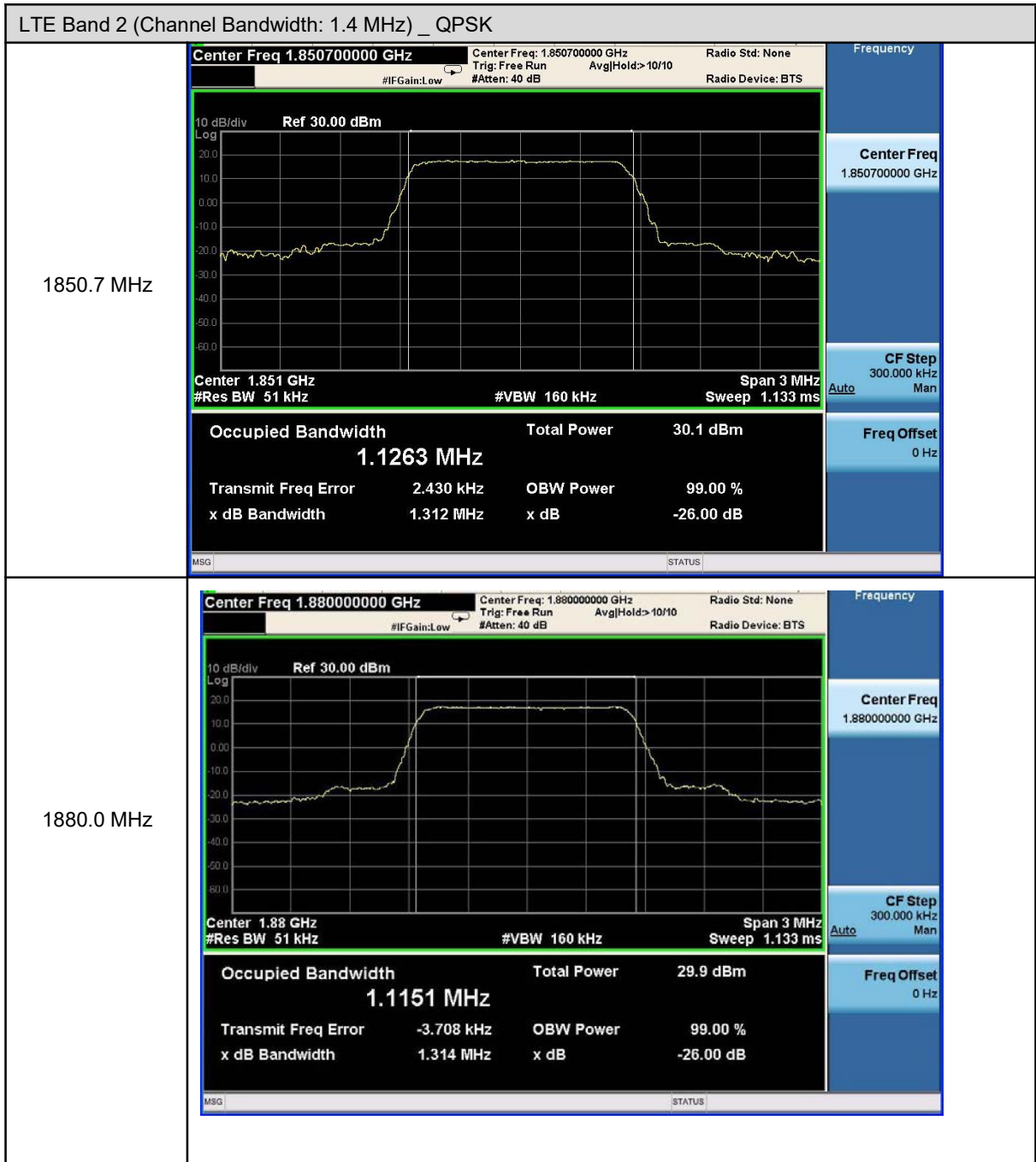
LTE Band 5				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	1.4 MHz	824.7	1.292	1.0870
		836.5	1.296	1.0882
		848.3	1.282	1.0928
	3 MHz	825.5	2.985	2.7044
		836.5	2.974	2.7025
		847.5	2.987	2.7050
	5 MHz	826.5	4.978	4.5029
		836.5	4.997	4.4898
		846.5	4.977	4.5002
	10 MHz	829.0	9.924	8.9577
		836.5	9.867	8.9437
		844.0	9.874	8.943
16QAM	1.4 MHz	824.7	1.298	1.0936
		836.5	1.287	1.0853
		848.3	1.288	1.0865
	3 MHz	825.5	2.983	2.7044
		836.5	2.988	2.6956
		847.5	2.986	2.6992
	5 MHz	826.5	4.994	4.4938
		836.5	4.993	4.5048
		846.5	5.049	4.5042
	10 MHz	829.0	9.866	8.9543
		836.5	9.841	8.9313
		844.0	9.890	8.9315

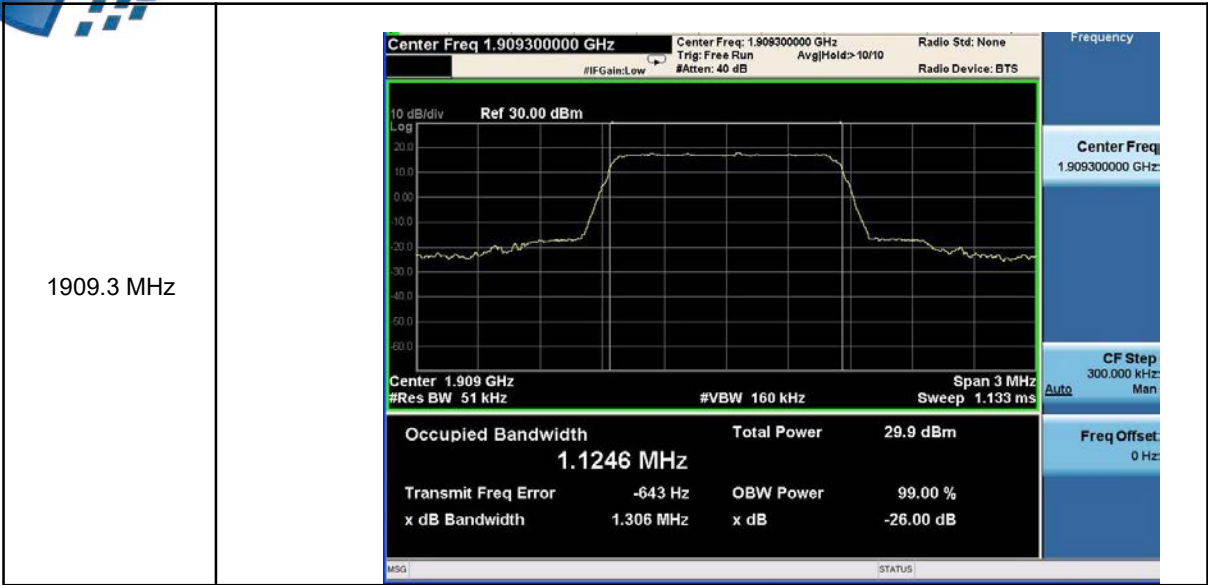


LTE Band 7				
Modulation	Channel Bandwidth	Frequency (MHz)	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)
QPSK	5 MHz	2502.5	4.975	4.5092
		2535.0	4.947	4.5243
		2567.5	5.025	4.5224
	10 MHz	2505.0	10.163	9.0060
		2535.0	9.943	9.0364
		2565.0	9.971	9.0045
	15 MHz	2507.5	14.669	13.4974
		2535.0	14.485	13.5314
		2562.5	14.737	13.5004
	20 MHz	2510.0	19.131	17.9070
		2535.0	19.302	17.8701
		2560.0	19.322	17.8716
16QAM	5 MHz	2502.5	4.5218	5.016
		2535.0	4.5276	5.019
		2567.5	4.5104	5.003
	10 MHz	2505.0	8.9961	9.956
		2535.0	9.0435	9.995
		2565.0	9.0369	10.062
	15 MHz	2507.5	13.4665	14.760
		2535.0	13.4415	14.806
		2562.5	13.5706	14.914
	20 MHz	2510.0	17.8639	19.302
		2535.0	17.9526	18.990
		2560.0	17.9075	19.218



5.5. Test Graphs







LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK	
1851.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.851500000 GHz Center Freq: 1.851500000 GHz Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IFGain: Low Trig: Free Run Avg/Hold: > 10/10 </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #Att: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin-top: 5px;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Center 1.852 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms </div> <div style="margin-top: 5px;"> <p>Occupied Bandwidth 2.7329 MHz</p> <p>Total Power 29.4 dBm</p> <p>Transmit Freq Error 999 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.033 MHz</p> <p>x dB -26.00 dB</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Frequency </div> <div style="background-color: #e0f0ff; padding: 2px; margin-top: 2px;"> <p>Center Freq 1.851500000 GHz</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> CF Step 600.000 kHz Auto Man </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> Freq Offset 0 Hz </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> MSG STATUS </div> </div>
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.880000000 GHz Center Freq: 1.880000000 GHz Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IFGain: Low Trig: Free Run Avg/Hold: > 10/10 </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #Att: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin-top: 5px;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Center 1.88 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms </div> <div style="margin-top: 5px;"> <p>Occupied Bandwidth 2.7425 MHz</p> <p>Total Power 29.5 dBm</p> <p>Transmit Freq Error -1.055 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.050 MHz</p> <p>x dB -26.00 dB</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Frequency </div> <div style="background-color: #e0f0ff; padding: 2px; margin-top: 2px;"> <p>Center Freq 1.880000000 GHz</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> CF Step 600.000 kHz Auto Man </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> Freq Offset 0 Hz </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> MSG STATUS </div> </div>
1908.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.908500000 GHz Center Freq: 1.908500000 GHz Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IFGain: Low Trig: Free Run Avg/Hold: > 10/10 </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #Att: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin-top: 5px;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Center 1.909 GHz #Res BW 100 kHz #VBW 300 kHz Span 6 MHz Sweep 1 ms </div> <div style="margin-top: 5px;"> <p>Occupied Bandwidth 2.7396 MHz</p> <p>Total Power 29.2 dBm</p> <p>Transmit Freq Error -3.480 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.026 MHz</p> <p>x dB -26.00 dB</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> Frequency </div> <div style="background-color: #e0f0ff; padding: 2px; margin-top: 2px;"> <p>Center Freq 1.908500000 GHz</p> </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> CF Step 600.000 kHz Auto Man </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> Freq Offset 0 Hz </div> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 2px;"> MSG STATUS </div> </div>



LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK	
1852.5 MHz	
1880.0 MHz	
1907.5 MHz	



LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK																												
1855.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.85500000 GHz Center Freq: 1.85500000 GHz Trig: Free Run AvgHold:>10/10 Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IF Gain: Low #Atten: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin: 5px 0;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center 1.855 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms </div> <table border="1" style="width: 100%; font-size: 10px; margin-top: 5px;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>30.0 dBm</td> </tr> <tr> <td style="text-align: center;">9.0437 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>5.435 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.12 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> MSG STATUS </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; font-size: 10px;"> <tr> <td style="text-align: right;">Frequency</td> <td>Center Freq</td> <td>1.85500000 GHz</td> </tr> <tr> <td style="text-align: right;">CF Step</td> <td>2.000000 MHz</td> <td>Man</td> </tr> <tr> <td style="text-align: right;">Freq Offset</td> <td>0 Hz</td> <td></td> </tr> </table> </div>	Occupied Bandwidth	Total Power	30.0 dBm	9.0437 MHz			Transmit Freq Error	5.435 kHz	OBW Power	x dB Bandwidth	10.12 MHz	x dB			99.00 %			-26.00 dB	Frequency	Center Freq	1.85500000 GHz	CF Step	2.000000 MHz	Man	Freq Offset	0 Hz	
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CF Step	2.000000 MHz	Man																										
Freq Offset	0 Hz																											
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.88000000 GHz Center Freq: 1.88000000 GHz Trig: Free Run AvgHold:>10/10 Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IF Gain: Low #Atten: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin: 5px 0;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center 1.88 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms </div> <table border="1" style="width: 100%; font-size: 10px; margin-top: 5px;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.5 dBm</td> </tr> <tr> <td style="text-align: center;">9.0808 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>4.577 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.18 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> MSG STATUS </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; font-size: 10px;"> <tr> <td style="text-align: right;">Frequency</td> <td>Center Freq</td> <td>1.88000000 GHz</td> </tr> <tr> <td style="text-align: right;">CF Step</td> <td>2.000000 MHz</td> <td>Man</td> </tr> <tr> <td style="text-align: right;">Freq Offset</td> <td>0 Hz</td> <td></td> </tr> </table> </div>	Occupied Bandwidth	Total Power	29.5 dBm	9.0808 MHz			Transmit Freq Error	4.577 kHz	OBW Power	x dB Bandwidth	10.18 MHz	x dB			99.00 %			-26.00 dB	Frequency	Center Freq	1.88000000 GHz	CF Step	2.000000 MHz	Man	Freq Offset	0 Hz	
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CF Step	2.000000 MHz	Man																										
Freq Offset	0 Hz																											
1905.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center Freq 1.90500000 GHz Center Freq: 1.90500000 GHz Trig: Free Run AvgHold:>10/10 Radio Std: None </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> #IF Gain: Low #Atten: 40 dB Radio Device: BTS </div> <div style="text-align: center; margin: 5px 0;"> </div> <div style="display: flex; justify-content: space-between; font-size: 8px;"> Center 1.905 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms </div> <table border="1" style="width: 100%; font-size: 10px; margin-top: 5px;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.6 dBm</td> </tr> <tr> <td style="text-align: center;">9.0603 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-26.257 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.18 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <div style="display: flex; justify-content: space-between; font-size: 8px; margin-top: 5px;"> MSG STATUS </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <table style="width: 100%; font-size: 10px;"> <tr> <td style="text-align: right;">Frequency</td> <td>Center Freq</td> <td>1.90500000 GHz</td> </tr> <tr> <td style="text-align: right;">CF Step</td> <td>2.000000 MHz</td> <td>Man</td> </tr> <tr> <td style="text-align: right;">Freq Offset</td> <td>0 Hz</td> <td></td> </tr> </table> </div>	Occupied Bandwidth	Total Power	29.6 dBm	9.0603 MHz			Transmit Freq Error	-26.257 kHz	OBW Power	x dB Bandwidth	10.18 MHz	x dB			99.00 %			-26.00 dB	Frequency	Center Freq	1.90500000 GHz	CF Step	2.000000 MHz	Man	Freq Offset	0 Hz	
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Frequency	Center Freq	1.90500000 GHz																										
CF Step	2.000000 MHz	Man																										
Freq Offset	0 Hz																											



LTE Band 2 (Channel Bandwidth: 20 MHz) _ QPSK													
1860.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.860000000 GHz Center Freq: 1.860000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS #Atten: 40 dB</p> <p>Center 1.86 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>30.1 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">17.938 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>22.761 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.43 MHz</td> <td>x dB -26.00 dB</td> </tr> </table> <p style="font-size: small;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	30.1 dBm	17.938 MHz			Transmit Freq Error	22.761 kHz	OBW Power 99.00 %	x dB Bandwidth	19.43 MHz	x dB -26.00 dB
Occupied Bandwidth	Total Power	30.1 dBm											
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Transmit Freq Error	22.761 kHz	OBW Power 99.00 %											
x dB Bandwidth	19.43 MHz	x dB -26.00 dB											
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.880000000 GHz Center Freq: 1.880000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS #Atten: 40 dB</p> <p>Center 1.88 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>30.4 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">17.937 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>15.900 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.32 MHz</td> <td>x dB -26.00 dB</td> </tr> </table> <p style="font-size: small;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	30.4 dBm	17.937 MHz			Transmit Freq Error	15.900 kHz	OBW Power 99.00 %	x dB Bandwidth	19.32 MHz	x dB -26.00 dB
Occupied Bandwidth	Total Power	30.4 dBm											
17.937 MHz													
Transmit Freq Error	15.900 kHz	OBW Power 99.00 %											
x dB Bandwidth	19.32 MHz	x dB -26.00 dB											
1900.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.900000000 GHz Center Freq: 1.900000000 GHz Radio Std: None #IF Gain: Low Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS #Atten: 40 dB</p> <p>Center 1.9 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.7 dBm</td> </tr> <tr> <td colspan="3" style="text-align: center;">17.906 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-18.210 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.48 MHz</td> <td>x dB -26.00 dB</td> </tr> </table> <p style="font-size: small;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	29.7 dBm	17.906 MHz			Transmit Freq Error	-18.210 kHz	OBW Power 99.00 %	x dB Bandwidth	19.48 MHz	x dB -26.00 dB
Occupied Bandwidth	Total Power	29.7 dBm											
17.906 MHz													
Transmit Freq Error	-18.210 kHz	OBW Power 99.00 %											
x dB Bandwidth	19.48 MHz	x dB -26.00 dB											



LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ 16QAM																			
1850.7 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.850700000 GHz Center Freq: 1.850700000 GHz Radio Std: None Trig: Free Run Avg Hold:>10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.851 GHz Span 3 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 1.133 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.2 dBm</td> </tr> <tr> <td>1.1129 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-1.996 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>1.291 MHz</td> <td></td> <td></td> </tr> </table> <p>MSG (STATUS)</p> </div>	Occupied Bandwidth	Total Power	29.2 dBm	1.1129 MHz			Transmit Freq Error	OBW Power	99.00 %	-1.996 kHz	x dB	-26.00 dB	x dB Bandwidth			1.291 MHz		
Occupied Bandwidth	Total Power	29.2 dBm																	
1.1129 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-1.996 kHz	x dB	-26.00 dB																	
x dB Bandwidth																			
1.291 MHz																			
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.880000000 GHz Center Freq: 1.880000000 GHz Radio Std: None Trig: Free Run Avg Hold:>10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.88 GHz Span 3 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 1.133 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.2 dBm</td> </tr> <tr> <td>1.1229 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-7.071 kHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>1.300 MHz</td> <td></td> <td></td> </tr> </table> <p>MSG (STATUS)</p> </div>	Occupied Bandwidth	Total Power	29.2 dBm	1.1229 MHz			Transmit Freq Error	OBW Power	99.00 %	-7.071 kHz	x dB	-26.00 dB	x dB Bandwidth			1.300 MHz		
Occupied Bandwidth	Total Power	29.2 dBm																	
1.1229 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
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x dB Bandwidth																			
1.300 MHz																			
1909.3 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.909300000 GHz Center Freq: 1.909300000 GHz Radio Std: None Trig: Free Run Avg Hold:>10/10 #IFGain:Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.909 GHz Span 3 MHz #Res BW 51 kHz #VBW 160 kHz Sweep 1.133 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>28.8 dBm</td> </tr> <tr> <td>1.1152 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>465 Hz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> <td></td> </tr> <tr> <td>1.311 MHz</td> <td></td> <td></td> </tr> </table> <p>MSG (STATUS)</p> </div>	Occupied Bandwidth	Total Power	28.8 dBm	1.1152 MHz			Transmit Freq Error	OBW Power	99.00 %	465 Hz	x dB	-26.00 dB	x dB Bandwidth			1.311 MHz		
Occupied Bandwidth	Total Power	28.8 dBm																	
1.1152 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
465 Hz	x dB	-26.00 dB																	
x dB Bandwidth																			
1.311 MHz																			



LTE Band 2 (Channel Bandwidth: 3 MHz) _ 16QAM	
1851.5 MHz	<p>Center Freq 1.851500000 GHz</p> <p>Center Freq 1.851500000 GHz</p> <p>Radio Std: None</p> <p>Frequency</p> <p>Center Freq 1.851500000 GHz</p> <p>CF Step 600.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center 1.852 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 6 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.7368 MHz</p> <p>Total Power 28.6 dBm</p> <p>Transmit Freq Error 275 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.025 MHz</p> <p>x dB -26.00 dB</p>
1880.0 MHz	<p>Center Freq 1.880000000 GHz</p> <p>Center Freq 1.880000000 GHz</p> <p>Radio Std: None</p> <p>Frequency</p> <p>Center Freq 1.880000000 GHz</p> <p>CF Step 600.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center 1.88 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 6 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.7422 MHz</p> <p>Total Power 28.4 dBm</p> <p>Transmit Freq Error -2.555 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.021 MHz</p> <p>x dB -26.00 dB</p>
1908.5 MHz	<p>Center Freq 1.908500000 GHz</p> <p>Center Freq 1.908500000 GHz</p> <p>Radio Std: None</p> <p>Frequency</p> <p>Center Freq 1.908500000 GHz</p> <p>CF Step 600.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>Center 1.909 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 6 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 2.7292 MHz</p> <p>Total Power 28.3 dBm</p> <p>Transmit Freq Error -5.384 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 3.018 MHz</p> <p>x dB -26.00 dB</p>



LTE Band 2 (Channel Bandwidth: 5 MHz) _ 16QAM																			
1852.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.852500000 GHz Center Freq: 1.852500000 GHz Radio Std: None Frequency</p> <p>#IFGain: Low Trig: Free Run AvgHold: >10/10 Radio Device: BTS</p> <p>Center 1.853 GHz #Res BW 100 kHz #VBW 300 kHz Span 10 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>28.8 dBm</td> </tr> <tr> <td style="text-align: center;">4.5564 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-634 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>5.067 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>CF Step 1.000000 MHz Freq Offset 0 Hz</p> </div>	Occupied Bandwidth	Total Power	28.8 dBm	4.5564 MHz			Transmit Freq Error	-634 Hz	OBW Power	x dB Bandwidth	5.067 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	28.8 dBm																	
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Transmit Freq Error	-634 Hz	OBW Power																	
x dB Bandwidth	5.067 MHz	x dB																	
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		-26.00 dB																	
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.879997000 GHz Center Freq: 1.879997000 GHz Radio Std: None Frequency</p> <p>#IFGain: Low Trig: Free Run AvgHold: >10/10 Radio Device: BTS</p> <p>Center 1.88 GHz #Res BW 100 kHz #VBW 300 kHz Span 10 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.2 dBm</td> </tr> <tr> <td style="text-align: center;">4.5247 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>1.664 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>5.030 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>CF Step 1.000000 MHz Freq Offset 0 Hz</p> </div>	Occupied Bandwidth	Total Power	29.2 dBm	4.5247 MHz			Transmit Freq Error	1.664 kHz	OBW Power	x dB Bandwidth	5.030 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	29.2 dBm																	
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		-26.00 dB																	
1907.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.907500000 GHz Center Freq: 1.907500000 GHz Radio Std: None Frequency</p> <p>#IFGain: Low Trig: Free Run AvgHold: >10/10 Radio Device: BTS</p> <p>Center 1.908 GHz #Res BW 100 kHz #VBW 300 kHz Span 10 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>28.8 dBm</td> </tr> <tr> <td style="text-align: center;">4.5406 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>277 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>5.105 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>CF Step 1.000000 MHz Freq Offset 0 Hz</p> </div>	Occupied Bandwidth	Total Power	28.8 dBm	4.5406 MHz			Transmit Freq Error	277 Hz	OBW Power	x dB Bandwidth	5.105 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	28.8 dBm																	
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Transmit Freq Error	277 Hz	OBW Power																	
x dB Bandwidth	5.105 MHz	x dB																	
		99.00 %																	
		-26.00 dB																	



LTE Band 2 (Channel Bandwidth: 10 MHz) _ 16QAM																	
1855.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.855000000 GHz Center Freq: 1.855000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg Hold:>10/10 Radio Device: BTS</p> <p>Center 1.855 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">28.9 dBm</td> </tr> <tr> <td style="text-align: center;">9.0394 MHz</td> <td>Transmit Freq Error</td> <td>14.979 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.06 MHz</td> <td>x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>Frequency: 1.855000000 GHz CF Step: 2.000000 MHz (Auto) Freq Offset: 0 Hz</p> </div>	Occupied Bandwidth	Total Power	28.9 dBm		9.0394 MHz	Transmit Freq Error	14.979 kHz	OBW Power	x dB Bandwidth	10.06 MHz	x dB	99.00 %				-26.00 dB
Occupied Bandwidth	Total Power	28.9 dBm															
9.0394 MHz	Transmit Freq Error	14.979 kHz	OBW Power														
x dB Bandwidth	10.06 MHz	x dB	99.00 %														
			-26.00 dB														
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.880000000 GHz Center Freq: 1.880000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg Hold:>10/10 Radio Device: BTS</p> <p>Center 1.88 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">29.3 dBm</td> </tr> <tr> <td style="text-align: center;">9.0776 MHz</td> <td>Transmit Freq Error</td> <td>17.257 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.10 MHz</td> <td>x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>Frequency: 1.880000000 GHz CF Step: 2.000000 MHz (Auto) Freq Offset: 0 Hz</p> </div>	Occupied Bandwidth	Total Power	29.3 dBm		9.0776 MHz	Transmit Freq Error	17.257 kHz	OBW Power	x dB Bandwidth	10.10 MHz	x dB	99.00 %				-26.00 dB
Occupied Bandwidth	Total Power	29.3 dBm															
9.0776 MHz	Transmit Freq Error	17.257 kHz	OBW Power														
x dB Bandwidth	10.10 MHz	x dB	99.00 %														
			-26.00 dB														
1905.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.905000000 GHz Center Freq: 1.905000000 GHz Radio Std: None #IFGain:Low Trig: Free Run Avg Hold:>10/10 Radio Device: BTS</p> <p>Center 1.905 GHz #Res BW 300 kHz #VBW 1 MHz Span 20 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">28.7 dBm</td> </tr> <tr> <td style="text-align: center;">9.0641 MHz</td> <td>Transmit Freq Error</td> <td>-27.316 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>10.05 MHz</td> <td>x dB</td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>Frequency: 1.905000000 GHz CF Step: 2.000000 MHz (Auto) Freq Offset: 0 Hz</p> </div>	Occupied Bandwidth	Total Power	28.7 dBm		9.0641 MHz	Transmit Freq Error	-27.316 kHz	OBW Power	x dB Bandwidth	10.05 MHz	x dB	99.00 %				-26.00 dB
Occupied Bandwidth	Total Power	28.7 dBm															
9.0641 MHz	Transmit Freq Error	-27.316 kHz	OBW Power														
x dB Bandwidth	10.05 MHz	x dB	99.00 %														
			-26.00 dB														



LTE Band 2 (Channel Bandwidth: 15 MHz) _ 16QAM	
1857.5 MHz	<p>Center Freq 1.857500000 GHz</p> <p>Center Freq: 1.857500000 GHz Trig: Free Run #Atten: 40 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 30.00 dBm</p> <p>Center 1.858 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 13.510 MHz</p> <p>Total Power 29.2 dBm</p> <p>Transmit Freq Error 26.188 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 14.88 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 1.857500000 GHz</p> <p>CF Step 4.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
1880.0 MHz	<p>Center Freq 1.880000000 GHz</p> <p>Center Freq: 1.880000000 GHz Trig: Free Run #Atten: 40 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 30.00 dBm</p> <p>Center 1.88 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 13.538 MHz</p> <p>Total Power 28.8 dBm</p> <p>Transmit Freq Error 11.341 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 14.89 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 1.880000000 GHz</p> <p>CF Step 4.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
1902.5 MHz	<p>Center Freq 1.902500000 GHz</p> <p>Center Freq: 1.902500000 GHz Trig: Free Run #Atten: 40 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 30.00 dBm</p> <p>Center 1.903 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 13.502 MHz</p> <p>Total Power 28.9 dBm</p> <p>Transmit Freq Error -14.697 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 14.69 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency Center Freq 1.902500000 GHz</p> <p>CF Step 4.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>



LTE Band 2 (Channel Bandwidth: 20 MHz) _ 16QAM																			
1860.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.860000000 GHz Center Freq: 1.860000000 GHz Radio Std: None Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.86 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.3 dBm</td> </tr> <tr> <td style="text-align: center;">17.937 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>6.098 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.50 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	29.3 dBm	17.937 MHz			Transmit Freq Error	6.098 kHz	OBW Power	x dB Bandwidth	19.50 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	29.3 dBm																	
17.937 MHz																			
Transmit Freq Error	6.098 kHz	OBW Power																	
x dB Bandwidth	19.50 MHz	x dB																	
		99.00 %																	
		-26.00 dB																	
1880.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.880000000 GHz Center Freq: 1.880000000 GHz Radio Std: None Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.88 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>29.1 dBm</td> </tr> <tr> <td style="text-align: center;">17.959 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>14.570 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.31 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	29.1 dBm	17.959 MHz			Transmit Freq Error	14.570 kHz	OBW Power	x dB Bandwidth	19.31 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	29.1 dBm																	
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Transmit Freq Error	14.570 kHz	OBW Power																	
x dB Bandwidth	19.31 MHz	x dB																	
		99.00 %																	
		-26.00 dB																	
1900.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Center Freq 1.900000000 GHz Center Freq: 1.900000000 GHz Radio Std: None Trig: Free Run Avg/Hold: >10/10 #IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Center 1.9 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>28.9 dBm</td> </tr> <tr> <td style="text-align: center;">17.913 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-6.562 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.36 MHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	28.9 dBm	17.913 MHz			Transmit Freq Error	-6.562 kHz	OBW Power	x dB Bandwidth	19.36 MHz	x dB			99.00 %			-26.00 dB
Occupied Bandwidth	Total Power	28.9 dBm																	
17.913 MHz																			
Transmit Freq Error	-6.562 kHz	OBW Power																	
x dB Bandwidth	19.36 MHz	x dB																	
		99.00 %																	
		-26.00 dB																	



LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ QPSK	
1710.7 MHz	<p>Agilent</p> <p>Ch Freq 1.7107 GHz Trig Free</p> <p>Center 1.710700000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.710 700 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 100 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1088 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -3.163 kHz</p> <p>x dB Bandwidth 1.301 MHz</p> <p>File Operation Status, C:\SCREN005.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.71070000 GHz</p> <p>Start Freq 1.70920000 GHz</p> <p>Stop Freq 1.71220000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
1732.5 MHz	<p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 500 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 100 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1236 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -4.175 kHz</p> <p>x dB Bandwidth 1.313 MHz</p> <p>File Operation Status, C:\SCREN001.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.73100000 GHz</p> <p>Stop Freq 1.73400000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
1754.3 MHz	<p>Agilent</p> <p>Ch Freq 1.7543 GHz Trig Free</p> <p>Center 1.754300000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.754 300 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 100 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1110 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -7.008 kHz</p> <p>x dB Bandwidth 1.309 MHz</p> <p>File Operation Status, C:\SCREN006.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.75430000 GHz</p> <p>Start Freq 1.75280000 GHz</p> <p>Stop Freq 1.75580000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>



LTE Band 4 (Channel Bandwidth: 3 MHz) _ QPSK	
1711.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7115 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.711500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.711 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7547 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -15.876 kHz</p> <p>x dB Bandwidth 3.009 MHz</p> <p>File Operation Status, C:\SCREN025.GIF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.71150000 GHz</p> <p>Start Freq 1.70850000 GHz</p> <p>Stop Freq 1.71450000 GHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7786 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 9.907 kHz</p> <p>x dB Bandwidth 3.041 MHz</p> <p>File Operation Status, C:\SCREN022.GIF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72950000 GHz</p> <p>Stop Freq 1.73550000 GHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1753.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7535 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.753500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.753 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7545 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -13.252 kHz</p> <p>x dB Bandwidth 3.046 MHz</p> <p>File Operation Status, C:\SCREN026.GIF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.75350000 GHz</p> <p>Start Freq 1.75050000 GHz</p> <p>Stop Freq 1.75650000 GHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>

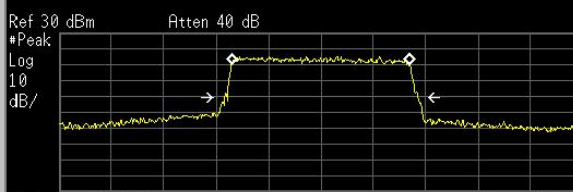
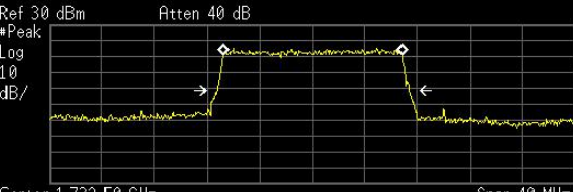
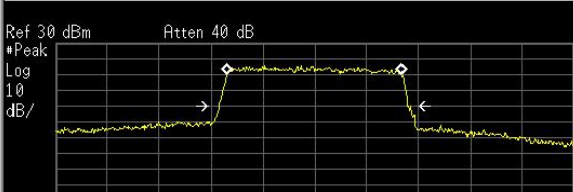


LTE Band 4 (Channel Bandwidth: 5 MHz) _ QPSK	
1712.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7125 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.712500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak</p> <p>Center 1.712 500 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.5096 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -1.261 kHz</p> <p>x dB Bandwidth 5.080 MHz</p> <p>File Operation Status, C:\SCREN031.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.71250000 GHz</p> <p>Start Freq 1.70750000 GHz</p> <p>Stop Freq 1.71750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak</p> <p>Center 1.732 500 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.5211 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 8.706 kHz</p> <p>x dB Bandwidth 5.053 MHz</p> <p>File Operation Status, C:\SCREN028.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72750000 GHz</p> <p>Stop Freq 1.73750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1752.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7525 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.752500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak</p> <p>Center 1.752 500 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.5093 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 4.939 kHz</p> <p>x dB Bandwidth 4.990 MHz</p> <p>File Operation Status, C:\SCREN032.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.75250000 GHz</p> <p>Start Freq 1.74750000 GHz</p> <p>Stop Freq 1.75750000 GHz</p> <p>CF Step 1.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 4 (Channel Bandwidth: 10 MHz) _ QPSK	
1715.0 MHz	<p>Agilent</p> <p>Ch Freq 1.715 GHz Trig Free</p> <p>Center 1.715000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>Occupied Bandwidth 9.0306 MHz</p> <p>Transmit Freq Error -23.759 kHz</p> <p>x dB Bandwidth 10.011 MHz</p> <p>File Operation Status, C:\SCREN038.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.71500000 GHz</p> <p>Start Freq 1.70500000 GHz</p> <p>Stop Freq 1.72500000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p>
1732.5 MHz	<p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>Occupied Bandwidth 9.0144 MHz</p> <p>Transmit Freq Error 11.135 kHz</p> <p>x dB Bandwidth 9.885 MHz</p> <p>File Operation Status, C:\SCREN035.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72250000 GHz</p> <p>Stop Freq 1.74250000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p>
1750.0 MHz	<p>Agilent</p> <p>Ch Freq 1.75 GHz Trig Free</p> <p>Center 1.750000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>Occupied Bandwidth 9.0152 MHz</p> <p>Transmit Freq Error -17.034 kHz</p> <p>x dB Bandwidth 9.995 MHz</p> <p>File Operation Status, C:\SCREN039.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.75000000 GHz</p> <p>Start Freq 1.74000000 GHz</p> <p>Stop Freq 1.76000000 GHz</p> <p>CF Step 2.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track Off</p>



LTE Band 4 (Channel Bandwidth: 15 MHz) _ QPSK																											
<p>1717.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7175 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.717500000 GHz</p>  <p>Center 1.717 50 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> </tr> <tr> <td style="text-align: center;">13.4661 MHz</td> <td style="text-align: center;">99.00 %</td> </tr> <tr> <td>Transmit Freq Error</td> <td>x dB</td> </tr> <tr> <td style="text-align: center;">-23.933 kHz</td> <td style="text-align: center;">-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> </tr> <tr> <td style="text-align: center;">14.756 MHz</td> <td></td> </tr> </table> <p style="font-size: small; color: yellow;">File Operation Status, C:\SCREN044.0IF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Freq/Channel</th> </tr> <tr> <td>Center Freq</td> <td>1.71750000 GHz</td> </tr> <tr> <td>Start Freq</td> <td>1.69750000 GHz</td> </tr> <tr> <td>Stop Freq</td> <td>1.73750000 GHz</td> </tr> <tr> <td>CF Step</td> <td>4.00000000 MHz Auto Man</td> </tr> <tr> <td>Freq Offset</td> <td>0.00000000 Hz</td> </tr> <tr> <td>Signal Track</td> <td>On Off</td> </tr> </table> </div>	Occupied Bandwidth	Occ BW % Pwr	13.4661 MHz	99.00 %	Transmit Freq Error	x dB	-23.933 kHz	-26.00 dB	x dB Bandwidth		14.756 MHz		Freq/Channel		Center Freq	1.71750000 GHz	Start Freq	1.69750000 GHz	Stop Freq	1.73750000 GHz	CF Step	4.00000000 MHz Auto Man	Freq Offset	0.00000000 Hz	Signal Track	On Off
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Signal Track	On Off																										
<p>1732.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p>  <p>Center 1.732 50 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> </tr> <tr> <td style="text-align: center;">13.4983 MHz</td> <td style="text-align: center;">99.00 %</td> </tr> <tr> <td>Transmit Freq Error</td> <td>x dB</td> </tr> <tr> <td style="text-align: center;">25.890 kHz</td> <td style="text-align: center;">-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> </tr> <tr> <td style="text-align: center;">14.620 MHz</td> <td></td> </tr> </table> <p style="font-size: small; color: yellow;">File Operation Status, C:\SCREN041.0IF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Freq/Channel</th> </tr> <tr> <td>Center Freq</td> <td>1.73250000 GHz</td> </tr> <tr> <td>Start Freq</td> <td>1.71250000 GHz</td> </tr> <tr> <td>Stop Freq</td> <td>1.75250000 GHz</td> </tr> <tr> <td>CF Step</td> <td>4.00000000 MHz Auto Man</td> </tr> <tr> <td>Freq Offset</td> <td>0.00000000 Hz</td> </tr> <tr> <td>Signal Track</td> <td>On Off</td> </tr> </table> </div>	Occupied Bandwidth	Occ BW % Pwr	13.4983 MHz	99.00 %	Transmit Freq Error	x dB	25.890 kHz	-26.00 dB	x dB Bandwidth		14.620 MHz		Freq/Channel		Center Freq	1.73250000 GHz	Start Freq	1.71250000 GHz	Stop Freq	1.75250000 GHz	CF Step	4.00000000 MHz Auto Man	Freq Offset	0.00000000 Hz	Signal Track	On Off
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Freq Offset	0.00000000 Hz																										
Signal Track	On Off																										
<p>1747.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7475 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.747500000 GHz</p>  <p>Center 1.747 50 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> </tr> <tr> <td style="text-align: center;">13.4160 MHz</td> <td style="text-align: center;">99.00 %</td> </tr> <tr> <td>Transmit Freq Error</td> <td>x dB</td> </tr> <tr> <td style="text-align: center;">-18.247 kHz</td> <td style="text-align: center;">-26.00 dB</td> </tr> <tr> <td>x dB Bandwidth</td> <td></td> </tr> <tr> <td style="text-align: center;">14.553 MHz</td> <td></td> </tr> </table> <p style="font-size: small; color: yellow;">File Operation Status, C:\SCREN045.0IF file saved</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Freq/Channel</th> </tr> <tr> <td>Center Freq</td> <td>1.74750000 GHz</td> </tr> <tr> <td>Start Freq</td> <td>1.72750000 GHz</td> </tr> <tr> <td>Stop Freq</td> <td>1.76750000 GHz</td> </tr> <tr> <td>CF Step</td> <td>4.00000000 MHz Auto Man</td> </tr> <tr> <td>Freq Offset</td> <td>0.00000000 Hz</td> </tr> <tr> <td>Signal Track</td> <td>On Off</td> </tr> </table> </div>	Occupied Bandwidth	Occ BW % Pwr	13.4160 MHz	99.00 %	Transmit Freq Error	x dB	-18.247 kHz	-26.00 dB	x dB Bandwidth		14.553 MHz		Freq/Channel		Center Freq	1.74750000 GHz	Start Freq	1.72750000 GHz	Stop Freq	1.76750000 GHz	CF Step	4.00000000 MHz Auto Man	Freq Offset	0.00000000 Hz	Signal Track	On Off
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CF Step	4.00000000 MHz Auto Man																										
Freq Offset	0.00000000 Hz																										
Signal Track	On Off																										



LTE Band 4 (Channel Bandwidth: 20 MHz) _ QPSK	
1720.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.72 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.72000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.720 00 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8990 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 16.609 kHz x dB Bandwidth 19.193 MHz</p> <p>File Operation Status, C:\SCREEN050.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.72000000 GHz</p> <p>Start Freq 1.70000000 GHz</p> <p>Stop Freq 1.74000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.73250000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.9087 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 6.755 kHz x dB Bandwidth 19.288 MHz</p> <p>File Operation Status, C:\SCREEN047.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.71250000 GHz</p> <p>Stop Freq 1.75250000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1745.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.745 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.74500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.745 00 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8692 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -39.754 kHz x dB Bandwidth 19.441 MHz</p> <p>File Operation Status, C:\SCREEN051.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.74500000 GHz</p> <p>Start Freq 1.72500000 GHz</p> <p>Stop Freq 1.76500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 4 (Channel Bandwidth: 1.4 MHz) _ 16QAM	
<p>1710.7 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.7107 GHz Trig Free</p> <p>Center 1.71070000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.710 700 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 160 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1112 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -5.503 kHz</p> <p>x dB Bandwidth 1.297 MHz</p> <p>File Operation Status, C:\SCREN004.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.71070000 GHz</p> <p>Start Freq 1.70920000 GHz</p> <p>Stop Freq 1.71220000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>1732.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center 1.73250000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 500 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 160 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1153 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -5.814 kHz</p> <p>x dB Bandwidth 1.276 MHz</p> <p>File Operation Status, C:\SCREN002.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.73100000 GHz</p> <p>Stop Freq 1.73400000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>1754.3 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.7543 GHz Trig Free</p> <p>Center 1.75430000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.754 300 GHz Span 3 MHz</p> <p>#Res BW 51 kHz #VBW 160 kHz Sweep 1.12 ms (601 pts)</p> <p>Occupied Bandwidth 1.1192 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -1.824 kHz</p> <p>x dB Bandwidth 1.300 MHz</p> <p>File Operation Status, C:\SCREN007.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.75430000 GHz</p> <p>Start Freq 1.75280000 GHz</p> <p>Stop Freq 1.75580000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>



LTE Band 4 (Channel Bandwidth: 3 MHz) _ 16QAM	
1711.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7115 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.711500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.711 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7363 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -8.837 kHz</p> <p>x dB Bandwidth 2.983 MHz</p> <p>File Operation Status, C:\SCREN024.0IF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.71150000 GHz</p> <p>Start Freq 1.70850000 GHz</p> <p>Stop Freq 1.71450000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7334 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -8.215 kHz</p> <p>x dB Bandwidth 3.022 MHz</p> <p>File Operation Status, C:\SCREN023.0IF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72950000 GHz</p> <p>Stop Freq 1.73550000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1753.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7535 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.753500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.753 50 GHz Span 6 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 2.7335 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -9.823 kHz</p> <p>x dB Bandwidth 3.036 MHz</p> <p>File Operation Status, C:\SCREN027.0IF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.75350000 GHz</p> <p>Start Freq 1.75050000 GHz</p> <p>Stop Freq 1.75650000 GHz</p> <p>CF Step 600.000000 kHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 4 (Channel Bandwidth: 10 MHz) _ 16QAM	
1715.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.715 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.715000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.715 00 GHz Span 20 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 9.0343 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -8.644 kHz x dB Bandwidth 9.979 MHz</p> <p>File Operation Status, C:\SCREN037.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.71500000 GHz</p> <p>Start Freq 1.70500000 GHz</p> <p>Stop Freq 1.72500000 GHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 20 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 9.0097 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 10.772 kHz x dB Bandwidth 9.942 MHz</p> <p>File Operation Status, C:\SCREN036.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.72250000 GHz</p> <p>Stop Freq 1.74250000 GHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1750.0 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.75 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.750000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.750 00 GHz Span 20 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 9.0050 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -33.479 kHz x dB Bandwidth 10.058 MHz</p> <p>File Operation Status, C:\SCREN040.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.75000000 GHz</p> <p>Start Freq 1.74000000 GHz</p> <p>Stop Freq 1.76000000 GHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 4 (Channel Bandwidth: 15 MHz) _ 16QAM	
1717.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7175 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.717500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.717 50 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 13.5163 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 7.353 kHz</p> <p>x dB Bandwidth 14.511 MHz</p> <p>File Operation Status, C:\SCREN043.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.71750000 GHz</p> <p>Start Freq 1.69750000 GHz</p> <p>Stop Freq 1.73750000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1732.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.732500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 13.4734 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 8.245 kHz</p> <p>x dB Bandwidth 14.772 MHz</p> <p>File Operation Status, C:\SCREN042.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.71250000 GHz</p> <p>Stop Freq 1.75250000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
1747.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 1.7475 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 1.747500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.747 50 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 13.4787 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error -664.045 Hz</p> <p>x dB Bandwidth 14.628 MHz</p> <p>File Operation Status, C:\SCREN046.GIF file saved</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 1.74750000 GHz</p> <p>Start Freq 1.72750000 GHz</p> <p>Stop Freq 1.76750000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 4 (Channel Bandwidth: 20 MHz) _ 16QAM	
<p>1720.0 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.72 GHz Trig Free</p> <p>Center 1.72000000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.720 00 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.9136 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -9.319 kHz</p> <p>x dB Bandwidth 19.287 MHz</p> <p>File Operation Status, C:\SCREN049.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.72000000 GHz</p> <p>Start Freq 1.70000000 GHz</p> <p>Stop Freq 1.74000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>1732.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.7325 GHz Trig Free</p> <p>Center 1.73250000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.732 50 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8931 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 5.213 kHz</p> <p>x dB Bandwidth 19.211 MHz</p> <p>File Operation Status, C:\SCREN048.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.73250000 GHz</p> <p>Start Freq 1.71250000 GHz</p> <p>Stop Freq 1.75250000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>1745.0 MHz</p>	<p>Agilent</p> <p>Ch Freq 1.745 GHz Trig Free</p> <p>Center 1.74500000 GHz</p> <p>Ref 30 dBm Atten 40 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 1.745 00 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 17.8845 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 10.440 kHz</p> <p>x dB Bandwidth 19.302 MHz</p> <p>File Operation Status, C:\SCREN052.GIF file saved</p> <p>Freq/Channel</p> <p>Center Freq 1.74500000 GHz</p> <p>Start Freq 1.72500000 GHz</p> <p>Stop Freq 1.76500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>



LTE Band 5 (Channel Bandwidth: 1.4 MHz) _ QPSK	
824.7 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 824.7 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.26 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.26 dB</p> <p>Center 824.700 MHz Span 2.8 MHz</p> <p>#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 %</p> <p>1.0870 MHz x dB -26.00 dB</p> <p>Transmit Freq Error -855.803 Hz</p> <p>x dB Bandwidth 1.292 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 824.700000 MHz</p> <p>Start Freq 823.300000 MHz</p> <p>Stop Freq 826.100000 MHz</p> <p>CF Step 280.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
836.5 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.28 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.28 dB</p> <p>Center 836.500 MHz Span 2.8 MHz</p> <p>#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 %</p> <p>1.0882 MHz x dB -26.00 dB</p> <p>Transmit Freq Error 1.183 kHz</p> <p>x dB Bandwidth 1.296 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 836.500000 MHz</p> <p>Start Freq 835.100000 MHz</p> <p>Stop Freq 837.900000 MHz</p> <p>CF Step 280.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
848.3 MHz	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 848.3 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.3 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.3 dB</p> <p>Center 848.300 MHz Span 2.8 MHz</p> <p>#Res BW 27 kHz #VBW 100 kHz #Sweep 1 s (518 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 %</p> <p>1.0928 MHz x dB -26.00 dB</p> <p>Transmit Freq Error -610.549 Hz</p> <p>x dB Bandwidth 1.282 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 848.300000 MHz</p> <p>Start Freq 846.900000 MHz</p> <p>Stop Freq 849.700000 MHz</p> <p>CF Step 280.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 5 (Channel Bandwidth: 3 MHz) _ QPSK		
<p>825.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 825.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.27 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.27 dB</p> <p>Center 825.500 MHz Span 6 MHz</p> <p>#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)</p> <p>Occupied Bandwidth 2.7044 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -895.627 Hz x dB Bandwidth 2.985 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 825.500000 MHz</p> <p>Start Freq 822.500000 MHz</p> <p>Stop Freq 828.500000 MHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>836.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.28 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.28 dB</p> <p>Center 836.500 MHz Span 6 MHz</p> <p>#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)</p> <p>Occupied Bandwidth 2.7025 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -4.027 kHz x dB Bandwidth 2.974 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 836.500000 MHz</p> <p>Start Freq 833.500000 MHz</p> <p>Stop Freq 839.500000 MHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>847.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 847.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.3 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.3 dB</p> <p>Center 847.500 MHz Span 6 MHz</p> <p>#Res BW 62 kHz #VBW 200 kHz #Sweep 1 s (483 pts)</p> <p>Occupied Bandwidth 2.7050 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -5.088 kHz x dB Bandwidth 2.987 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 847.500000 MHz</p> <p>Start Freq 844.500000 MHz</p> <p>Stop Freq 850.500000 MHz</p> <p>CF Step 600.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>



LTE Band 5 (Channel Bandwidth: 5 MHz) _ QPSK	
<p>826.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 826.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.27 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.27 dB</p> <p>Center 826.500 MHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 4.5029 MHz x dB -26.00 dB</p> <p>Transmit Freq Error -57.951 Hz x dB Bandwidth 4.978 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 826.500000 MHz</p> <p>Start Freq 821.500000 MHz</p> <p>Stop Freq 831.500000 MHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
<p>836.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.28 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.28 dB</p> <p>Center 836.500 MHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 4.4898 MHz x dB -26.00 dB</p> <p>Transmit Freq Error -115.292 Hz x dB Bandwidth 4.997 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 836.500000 MHz</p> <p>Start Freq 831.500000 MHz</p> <p>Stop Freq 841.500000 MHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>
<p>846.5 MHz</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Agilent</p> <p>Ch Freq 846.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <hr/> <p>Ref 28.3 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 8.3 dB</p> <p>Center 846.500 MHz Span 10 MHz #Res BW 100 kHz #VBW 300 kHz #Sweep 1 s (500 pts)</p> <div style="border: 1px solid green; padding: 2px;"> <p>Occupied Bandwidth Occ BW % Pwr 99.00 % 4.5002 MHz x dB -26.00 dB</p> <p>Transmit Freq Error -5.257 kHz x dB Bandwidth 4.977 MHz</p> </div> <p>Copyright 2000-2012 Agilent Technologies</p> </div> <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> <p>Freq/Channel</p> <p>Center Freq 846.500000 MHz</p> <p>Start Freq 841.500000 MHz</p> <p>Stop Freq 851.500000 MHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> </div>



LTE Band 5 (Channel Bandwidth: 10 MHz) _ QPSK		
<p>829.0 MHz</p>	<p>Agilent</p> <p>Ch Freq 829 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.27 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.27 dB</p> <p>Center 829.00 MHz Span 20 MHz</p> <p>#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)</p> <p>Occupied Bandwidth 8.9577 MHz</p> <p>Occ BW % PWR 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -7.380 kHz</p> <p>x dB Bandwidth 9.924 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 829.000000 MHz</p> <p>Start Freq 819.000000 MHz</p> <p>Stop Freq 839.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>836.5 MHz</p>	<p>Agilent</p> <p>Ch Freq 836.5 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.28 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.28 dB</p> <p>Center 836.50 MHz Span 20 MHz</p> <p>#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)</p> <p>Occupied Bandwidth 8.9437 MHz</p> <p>Occ BW % PWR 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -7.655 kHz</p> <p>x dB Bandwidth 9.867 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 836.500000 MHz</p> <p>Start Freq 826.500000 MHz</p> <p>Stop Freq 846.500000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>844.0 MHz</p>	<p>Agilent</p> <p>Ch Freq 844 MHz Trig Free</p> <p>Occupied Bandwidth Averages: 2</p> <p>Ref 28.29 dBm #Atten 30 dB</p> <p>#Peak Log 10 dB/ Offst 8.29 dB</p> <p>Center 844.00 MHz Span 20 MHz</p> <p>#Res BW 200 kHz #VBW 620 kHz #Sweep 1 s (500 pts)</p> <p>Occupied Bandwidth 8.9430 MHz</p> <p>Occ BW % PWR 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -31.305 kHz</p> <p>x dB Bandwidth 9.874 MHz</p> <p>Copyright 2000-2012 Agilent Technologies</p>	<p>Freq/Channel</p> <p>Center Freq 844.000000 MHz</p> <p>Start Freq 834.000000 MHz</p> <p>Stop Freq 854.000000 MHz</p> <p>CF Step 2.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>