

Shenzhen HUAK Testing Technology Co., Ltd. Report No.: HK2308233869-4E

FCC Test Report FCC Part 27

Report Reference No: FCC ID: Compiled by	2BDI3-K60
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Date of issue	Nov. 13, 2023
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Address	9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China
Test specification:	
Standard	FCC CFR Title 47 Part 2, Part 27
TRF Originator	Shenzhen HUAK Testing Technology Co., Ltd.
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Smart Phone
N/A
Shenzhen Shengkai Technology Co., Ltd.
K60
F5 Pro, F50 Pro, K60 Pro, K60E, M13, M13 Pro, M5s Pro, M5s, X5 Pro, F3 Pro, X40, X40 Pro, X40 Edge, F5, Note12 Pro, M6 Pro, I14 Pro max, I15 Pro max, G14 Pro, S22Ultra, S23 Ultra, G22
QPSK, 16QAM
DC 5V From Type-C or DC 3.8V From Battery
V1.0
V1.0
PASS

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TEST REPORT

Test Report No. :	HK2308233869-4E	Nov. 13, 20	023
	TIN2300233003-4L	Date of iss	sue
Equipment under Test	: Smart Phone		
Model /Type	: K60		
	: F5 Pro, F50 Pro, K60 Pro		
Series Models	M5s, X5 Pro, F3 Pro, Note12 Pro, M6 Pro, I14 S22Ultra, S23 Ultra, G22		
Applicant	Shenzhen Haimeilan Teo	chnology Co., LTD.	
Ster Ster	9V777, East 9th Floor, Bu		
Address	Huaqiang North Street, Fu China	utian District, Shenzr	ien, 518000
Manufacturer	: Shenzhen Shengkai Tec	hnology Co., Ltd.	
Address	 4th floor, Building 7, Hong Village, Hangcheng Stree 518000, China 		
Test res		Pass	O HU

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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HUM				
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Т 691

** Modified History **

ALL		AN IV AND			All N. C.
Revision		Description	lss	ued Data	Remark
Revision 1.0	C	Initial Test Report Release	e Nov	/. 13, 2023	Jason Zhou
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1 <u>Summary</u>

1.1 Test Standards

The tests were performed according to following standards:

FCC Part 27: Miscellaneous Wireless Communications Services.

TIA/EIA 603 D June 2010:Land Mobile FM or PM Communications Equipment Measurement and Performance Standards 47 CFR FCC Part 15 Subpart B: - Unintentional Radiators.

FCC Part 2: Frequency Alloca-Tions And Radio Treaty Mat-Ters; General Rules And Reg-Ulations.

KDB971168 D01: v02r02 Measurement Guidance For Certification Of Licensed Digital Transmitters.

1.2 Test Description

Section in CFR 47	Result
Part 2.1046 Part 27.50(d)(4)	Pass
Part 27.50(d)(4)	Pass
Part 2.1049 Part 27.53(h)	Pass
Part 2.1051 Part 27.53(h)	Pass
Part 2.1053 Part 27.53(h)	Pass
Part 2.1051 Part 27.53(h)	Pass
Part 2.1055 Part 27.54	Pass
	Part 2.1046 Part 27.50(d)(4) Part 27.50(d)(4) Part 27.50(d)(4) Part 2.1049 Part 27.53(h) Part 27.53(h) Part 27.53(h) Part 27.53(h) Part 27.53(h) Part 2.1051 Part 27.53(h) Part 27.53(h) Part 2.1053 Part 2.1051 Part 27.53(h) Part 2.1051 Part 27.53(h) Part 2.1055

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1.3 Information of The Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.4 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4:Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd.quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAK Testing Technology Co., Ltd.is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1) 151
Conducted Disturbance	0.15~30MHz	3.20dB	(1)
(1) This uncertainty represe	nts an expanded uncertainty	expressed at approximat	tely the 95%

 This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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2 <u>General Information</u>

2.1 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest imiddle and highest frequency of channel were selected to perform the test, then shown on this report. Note:

- 1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst resulton this report.
- 2. Test method and refer to 3GPP TS136521.

2.3 Test frequency list

(Po	ulpor - ulpor	- ullpo
Ø		0.
TX Channel Bandwidth	Frequency (MHz)	channel
1.4 MHz	1710.7	19957
	1732.5	20175
	1754.3	20393
	1711.5	19965
3 MHz	1732.5	20175
	1753.5	20385
	1712.5	19975
5 MHz	1732.5	20175
MG	1752.5	20375
	1715.0	20000
10 MHz 📀	1732.5	20175
	1750.0	20350
27.0	1717.5	20025
15 MHz	1732.5	20175
	1747.5	20325
	1720.0	20050
20 MHz	1732.5	20175
	1745.0	20300

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2.4 Equipments Used During The Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	ENV216	R&S	HKE-059	2023/02/17	2024/02/16
LISN	R&S	ENV216	HKE-002	2023/02/17	2024/02/16
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	2023/02/17	2024/02/16
Receiver	R&S	ESCI 7	HKE-010	2023/02/17	2024/02/16
Spectrum analyzer	Agilent	N9020A	HKE-048	2023/02/17	2024/02/16
RF automatic control unit	Tonscend	JS0806-2	HKE-060	2023/02/17	2024/02/16
Horn antenna	Schwarzbeck	9120D	HKE-013	2023/02/17	2024/02/16
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	2023/02/17	2024/02/16
Preamplifier	EMCI 🔜 🕫	EMC051845SE	HKE-015	2023/02/17	2024/02/16
Preamplifier	Agilent	83051A	HKE-016	2023/02/17	2024/02/16
Temperature and humidity meter	Boyang	HTC-1	HKE-075	2023/02/17	2024/02/16
High pass filter unit	Tonscend	JS0806-F	HKE-055	2023/02/17	2024/02/16
RF cable	Times	1-40G	HKE-034	2023/02/17	2024/02/16
Power meter	Agilent	E4419B	HKE-085	2023/02/17	2024/02/16
Power Sensor	Agilent	E9300A	HKE-086	2023/02/17	2024/02/16
Wireless Communication Test Set	R&S	CMU200	HKE-026	2023/02/17	2024/02/16
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	2023/02/17	2024/02/16
Horn antenna	Schwarzbeck	9120D	HKE-135	2023/02/17	2024/02/16
High gain antenna	Schwarzbeck	LB-180400KF	HKE-128	2023/02/17	2024/02/16
Broadband antenna	Schwarzbeck	VULB 9163	HKE-087	2023/02/17	2024/02/16
Signal generator	Agilent	E4433B	HKE-120	2023/02/17	2024/02/16
Signal generator	Agilent	E4421B	HKE-121	2023/02/17	2024/02/16

2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2BDI3-K60 filing to comply with of the FCC Part 27 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.

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3 Test Conditions and Results

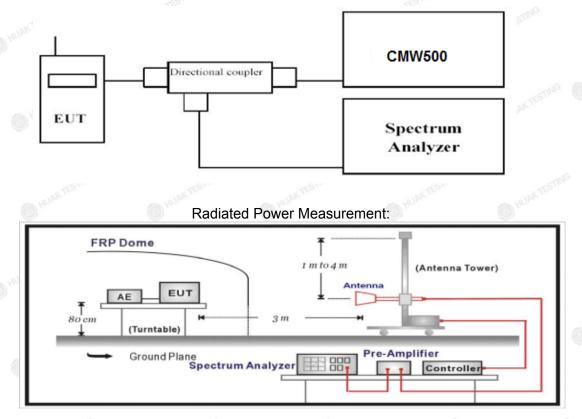
3.1 Output Power

LIMIT

According to §27.50 (d) (4): Fixed, mobile, and portable (hand- held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

TEST CONFIGURATION

Conducted Power Measurement



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal

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HUAK TESTING

level is detected by the measuring receiver.

- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- I. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

TX Channel	Frequency	TE FDD Band 4	Average Power [dBm]	
Bandwidth	(MHz)	RB Size/Offset	QPSK	16QAM
O HUMP		1 RB low	23.40	22.27
	4740 7	1 RB high	23.44	22.38
	1710.7	50% RB mid	23.36	22.23
		100% RB	23.45	22.22
TESTING TES	sm. esti	1 RB low	23.44	22.24
1.4 MHz	1722 5 0 1000	1 RB high	23.45	22.24
	1732.5	50% RB mid	22.42	21.40
		100% RB	23.42	22.35
		1 RB low	23.46	22.44
TING	1754.3	1 RB high	23.39	22.32
ED	1754.5	50% RB mid	23.50	22.30
	O HO	100% RB	23.51	22.30
		1 RB low	23.34	22.32
ING UAKTES NG	1711.5	1 RB high	23.38	22.37
	1711.5	50% RB mid	23.35	22.32
		100% RB	22.47	21.46
0		1 RB low	22.45	21.45
3 MHz	1732.5	1 RB high	22.42	21.44
3 1011 12	1752.5	50% RB mid	22.42	21.43
TING	TING OF	100% RB	23.36	22.38
AKTED. HUALT		1 RB low	23.40	22.40
0	1753.5	1 RB high	23.35	22.34
	1755.5	50% RB mid	22.46	21.50
		100% RB	22.47	21.49
ONG		1 RB low	23.54	22.42
EST.	1712.	1 RB high	23.55	22.43
5 MHz	17 1Z. HUM	50% RB mid	23.48	22.38
5 MHZ	w.	100% RB	22.50	21.49
	1732.5	1 RB low	22.50	21.49
J.G	1752.5	1 RB high	22.50	21.49

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	CTIV-		The	
	WAKTED	50% RB mid	22.44	21.47
and	STING THE	100% RB	23.56	22.42
INK TEST.	WASTES ON TES	1 RB low	23.56	22.43
8 HUM ()	1752.5	1 RB high	23.49	22.40
	1752.5	50% RB mid	22.54	21.53
		100% RB	22.54	21.54
6		1 RB low	23.53	22.48
TESTING	1715.0	1 RB high	23.52	22.52
HUAK	1715.0	50% RB mid	23.54	22.53
0		100% RB	22.51	21.48
NG	-olG	1 RB low	22.50	21.48
TE TIME	1700 E (TESTING	1 RB high	22.49	21.48
10 MHz	1732.5	50% RB mid	22.54	21.55
HUAK		100% RB	23.49	22.48
	-G.	1 RB low	23.50	22.53
	- sestime	1 RB high	23.44	22.45
	1750.0	50% RB mid	22.49	21.49
STING	TESTING O	100% RB	22.51	21.51
- WANTLE	HUP - HUPK ?!	1 RB low	23.52	22.49
	0.	1 RB high	23.51	22.51
	1717.5	50% RB mid	23.61	22.62
		100% RB	22.59	21.54
MG	Olar-	1 RB low	22.60	21.54
NKTEST	AK TEST	1 RB high	22.59	21.54
15 MHz	1732.5	50% RB mid	22.61	21.55
10		100% RB	23.49	22.51
CTING	TING	1 RB low	23.48	22.48
160	OVG WAX TES	1 RB high	23.33	22.33
. 134	1747.5	50% RB mid	22.57	22.33
HOM	~	100% RB	22.56	21.54
	TING	1 RB low	23.62	22.46
	NAKTES	1 RB high	23.58	22.59
Blan	1720.0	50% RB mid	23.45	22.63
NK TESTIN	NIACTES ANTES	100% RB	22.64	21.88
HUM O	ter turber	1 RB low	22.70	21.58
	W	1 RB high	22.56	21.58
20 MHz	1732.5	50% RB mid	22.61	21.62
.6		100% RB	23.53	21.02
TESTINU	1551012	1 RB low	23.58	22.41
HUAN	HUAR	1 RB high	23.39	22.49
	1745.0	50% RB mid	22.53	22.20
allG	Ð	100% RB 1110	22.55	21.44
TESTIN	TESTING		22.19	21.40

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Radiated Measurement *Remark:*

- We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.
 - 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_{a}(dBi)$

LILIDDD			1111.40012		-C14-	-6	10-	- C1/11
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-16.18	3.06	9.68	34.80	25.24	30.00	4.76	V
1732.5	-17.13	3.17	9.68	34.80	24.18	30.00	5.82	This V
1754.3	-16.12	3.22	9.75	34.80	25.21	30.00	4.79	V

LTE FDD Band 4_Channel Bandwidth 1.4MHz_QPSK

LTE FDD Band 4_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-15.32	3.06	9.68	34.80	26.10	30.00	3.90	V
1732.5	-14.54	3.17	9.68	34.80	26.77	30.00	3.23	V
1753.5	-16.02	3.22	9.75	34.80	25.31	30.00	4.69	V

LTE FDD Band 4_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-16.67	3.06	Gain(dB) 9.68	34.80	24.75	30.00	5.25	V
1732.5	-15.92	3.17	9.68	34.80	25.39	30.00	4.61	V
1752.5	-15.44	3.22	9.75	34.80	25.89	30.00	4.11	V

LTE FDD Band 4_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-15.38	3.06	9.68	34.80	26.04	30.00	3.96	V
1732.5	-15.94	3.17	9.68	34.80	25.37	30.00	4.63	V
1750.0	-15.93	3.22	9.75	34.80	25.40	30.00	4.60	V

LTE FDD Band 4_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-16.46	3.06	9.68	34.80	24.96	30.00	5.04	V North
1732.5	-15.63	3.17	9.68	34.80	25.68	30.00	4.32	V
1747.5	-16.45	3.22	9.75	34.80	24.88	30.00	5.12	V

LTE FDD Band 4_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-13.61	3.06	9.68	34.80	27.81	30.00	2.19	V
1732.5	-14.89	3.17	9.68	34.80	26.42	30.00	3.58	V
1745.0	-15.57	3.22	9.75	34.80	25.76	30.00	4.24	V

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LTE FDD Band 4_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.7	-16.39	3.06	9.68	34.80	25.03	30.00	4.97	V
1732.5	-15.68	3.17	9.68	34.80	25.63	30.00	4.37	V
1754.3	-15.27	3.22	9.75	34.80	26.06	30.00	3.94	V

LTE FDD Band 4_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.5	-15.69	3.06	9.68	34.80	25.73	30.00	4.27	STANS V
1732.5	-14.79	3.17	9.68	34.80	26.52	30.00	3.48	V
1753.5	-16.16	3.22	9.75	34.80	25.17	30.00	4.83	V

LTE FDD Band 4_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.5	-16.04	3.06	9.68	34.80	25.38	30.00	4.62	V
1732.5	-16.99	3.17	9.68	34.80	24.32	30.00	5.68	V
1752.5	-15.76	o 3.22	9.75	34.80	25.57	30.00	4.43	VG

LTE FDD Band 4_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.0	-15.08	3.06	9.68	34.80	26.34	30.00	3.66	V
1732.5	-15.1	3.17	9.68	34.80	26.21	30.00	3.79	V
1750.0	-16.78	3.22	🧔 9.75	34.80	24.55	30.00	5.45	V

LTE FDD Band 4_Channel Bandwidth 15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.5	-16.53	3.06	9.68	34.80	24.89	30.00	5.11	V
1732.5	-15.79	3.17	9.68	34.80	25.52	30.00	4.48	V
1747.5	-15.74	[©] 3.22	9.75	34.80	25.59	30.00	4.41	V

LTE FDD Band 4_Channel Bandwidth 20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.0	-16.18	3.06	9.68	34.80	25.24	30.00	4.76	V
1732.5	-14.02	3.17	9.68	34.80	27.29	30.00	2.71	V
1745.0	-15.42	3.22	9.75	34.80	25.91	30.00	4.09	V

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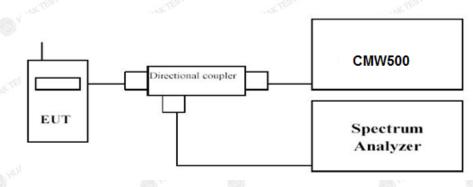
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3.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms;

2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

Olm	Olar	Dim Dim	Blan	aniG	
K TEST	TEST	LTE FDD Band 4	AK TEST.	AK TESTIN	
TX Channel	Frequency	RB Size/Offset	PAPR (dB)		
Bandwidth	(MHz)	RB Size/Oliset	- QPSK	16QAM	
1.4 MHz	1710.7	- NG	4.34	5.43	
	1732.5	1RB#0	4.80	5.83	
	1754.3	NK TESTI	4.21	5.16	
3 MHz	1711.5	ALC:	4.45	5.32	
	1732.5	1RB#0	5.05	5.86	
	1753.5		4.20	5.12	
5 MHz	1712.5	1RB#0	4.43	5.20	
	1732.5		5.09	5.70	
	1752.5		4.19	5.01	
10 MHz	1715.0		4.28	5.23	
	1732.5	1RB#0	5.06	5.93	
	1750.0		4.19	5.13	
15 MHz	1717.5	1RB#0	4.28	5.30	
	1732.5		5.02	5.85	
	1747.5		4.38	5.39	
20 MHz	1720.0	یه 1RB#0	4.16	5.01	
	1732.5		4.86	5.59	
	1745.0	TESTING	4.69	5.61	

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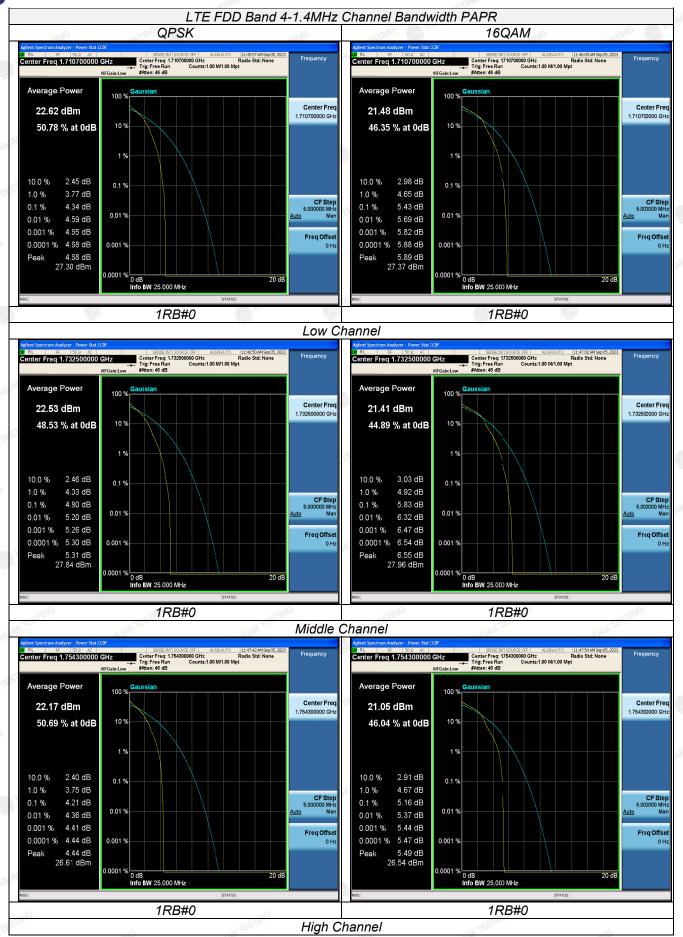
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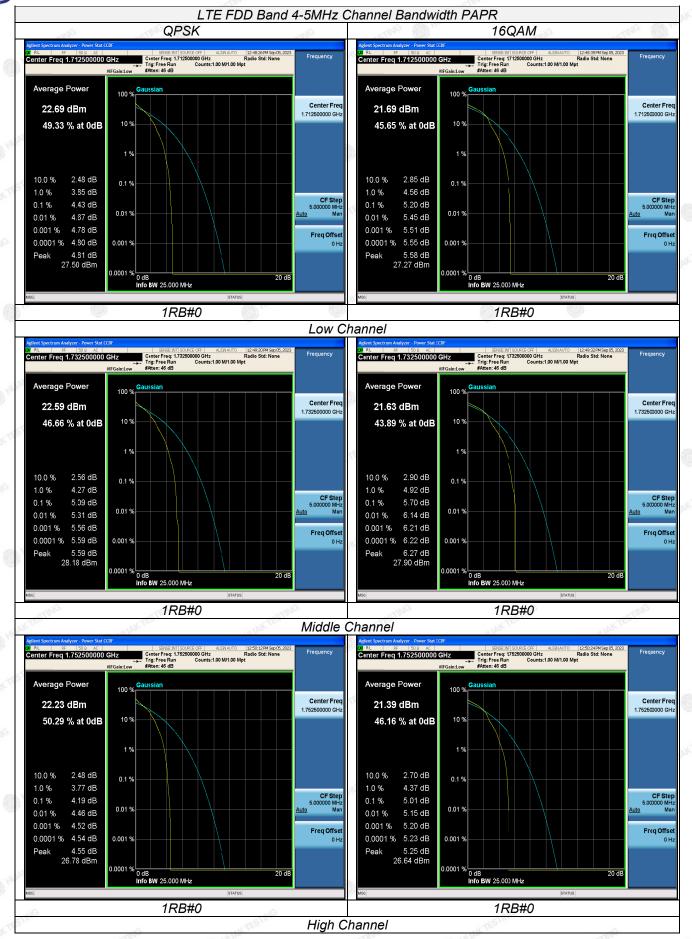
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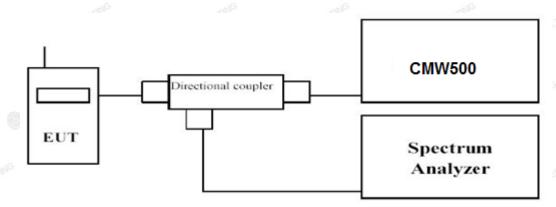
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3.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW≥3 times RBW.

-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

1.

Remark:

We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

		LTE FDD	D Band 4			
TX Channel	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
Bandwidth			QPSK	16QAM	QPSK	16QAM
1.4 MHz	HUM HUM	1710.7	1.269	1.286	1.0942	1.1009
	6RB#0	1732.5	1.268	1.277	1.0918	1.0979
		1754.3	1.268	1.268	1.0960	1.0954
3 MHz	TNG	1711.5	2.941	2.956	2.7003	2.6871
	15RB#0	1732.5	2.957	2.931	2.6915	2.6882
A HI		1753.5	2.946	2.948	2.7016	2.6914
5 MHz 25RB#	TING	1712.5	5.079	5.025	4.5217	4.5215
	25RB#0	1732.5	5.080	5.031	4.5217	4.5174
	TING OF HC.	1752.5	5.054	5.077	4.5065	4.5227
10 MHz	MAKTES	1715.0	9.942	9.851	8.9816	8.9983
	50RB#0	1732.5	9.982	9.925	8.9850	8.9931
		1750.0	9.891	9.984	9.0000	8.9804
15 MHz		1717.5	14.90	14.88	13.490	13.479
	75RB#0	1732.5	14.94	14.85	13.512	13.515
	TESTING	1747.5	14.94	14.82	13.486	13.505
20 MHz	HUAN	1720.0	19.49	19.58	17.940	17.970
	100RB#0	1732.5	19.53	19.58	17.972	18.012
			19.80	19.51	18.009	18.005

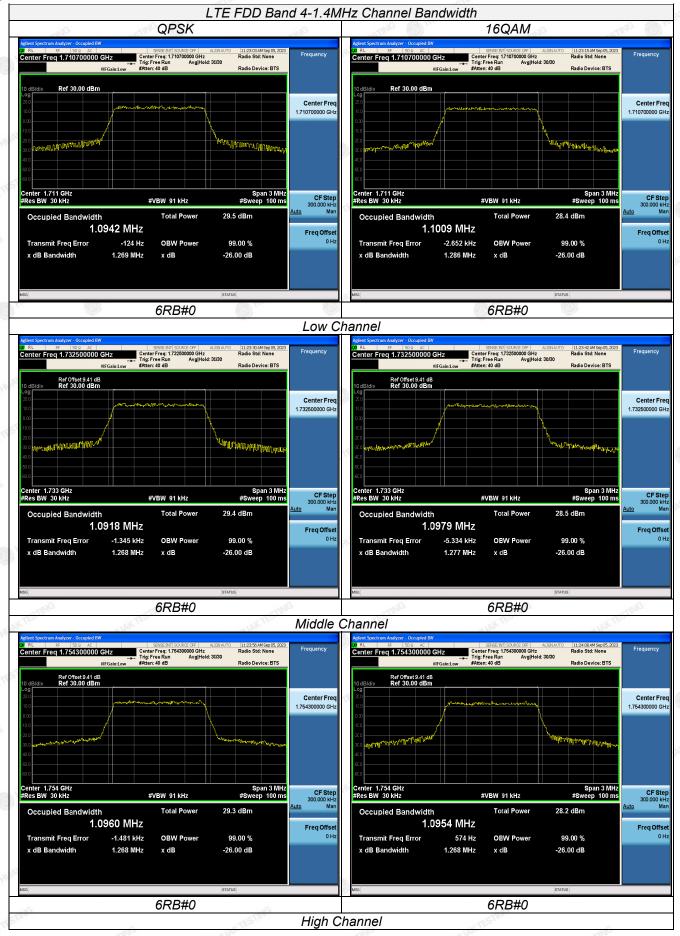
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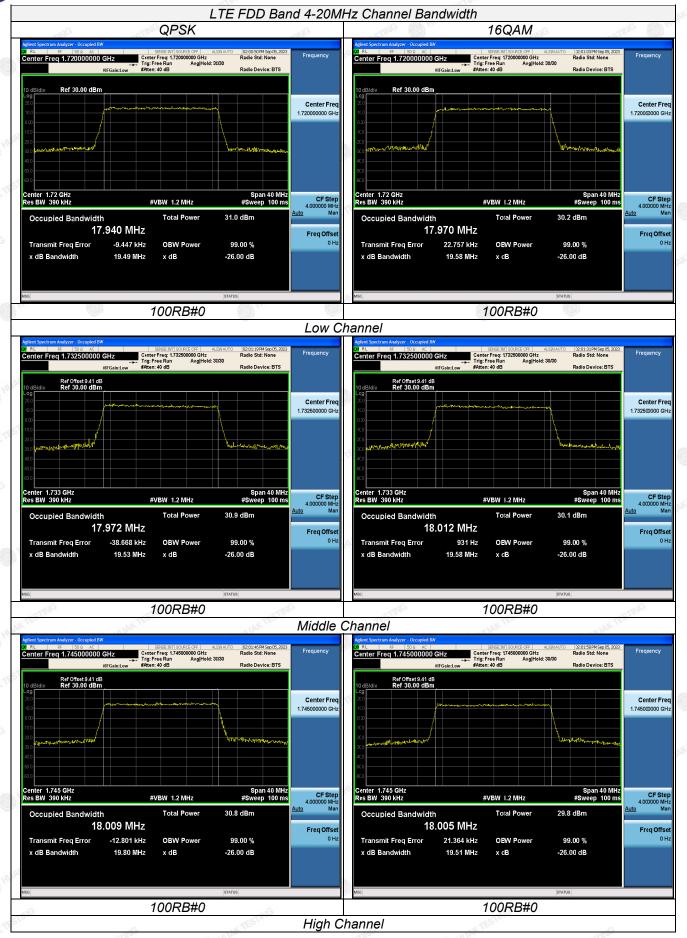
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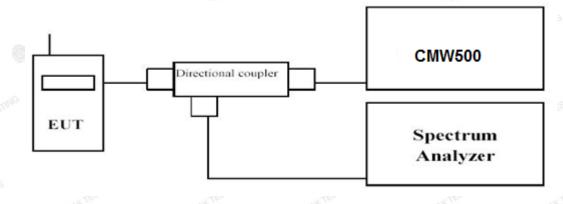


3.4 Band Edge Compliance

LIMIT

According to 27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest and highest channels for each band and different modulation.
- 5. Measure Band edge using RMS (Average) detector by spectrum.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

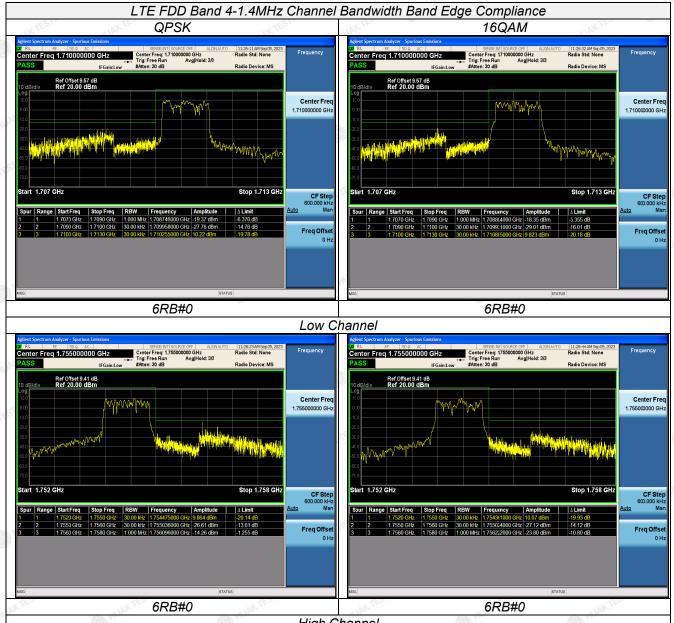
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High Channel

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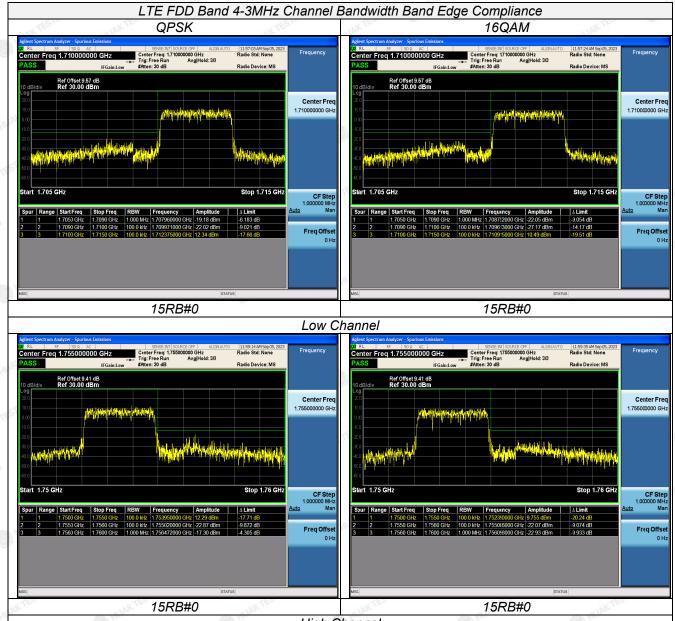
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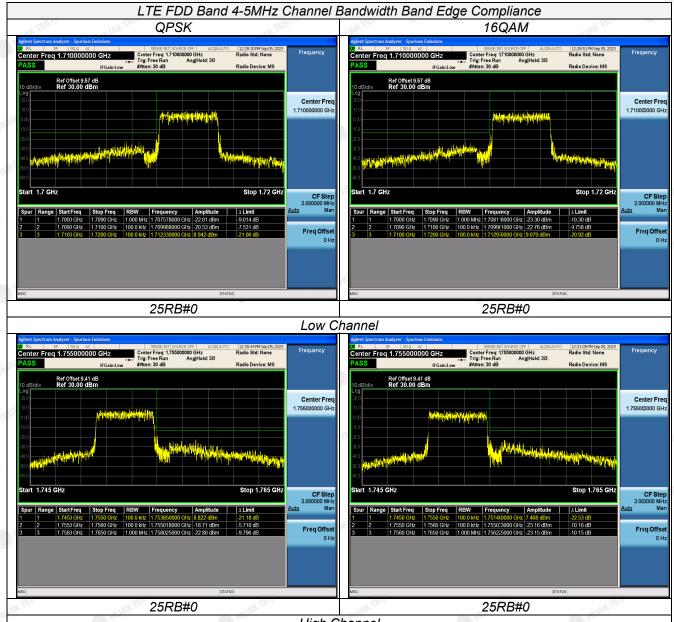
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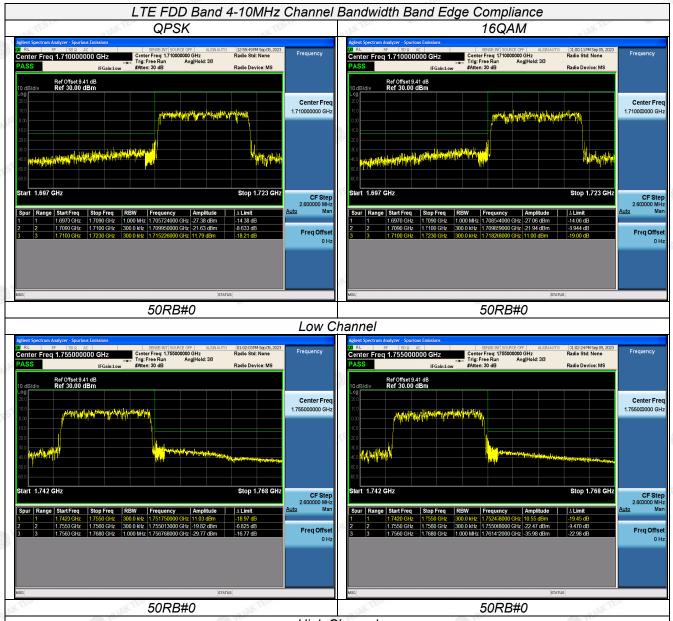
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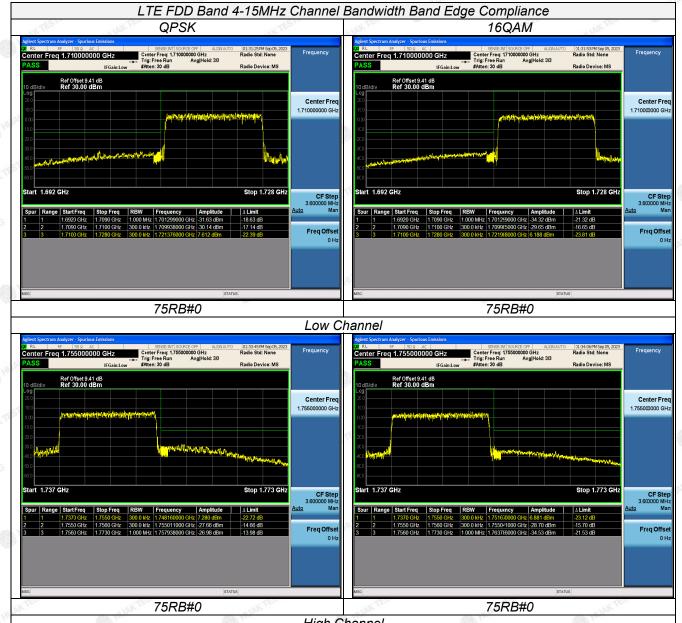


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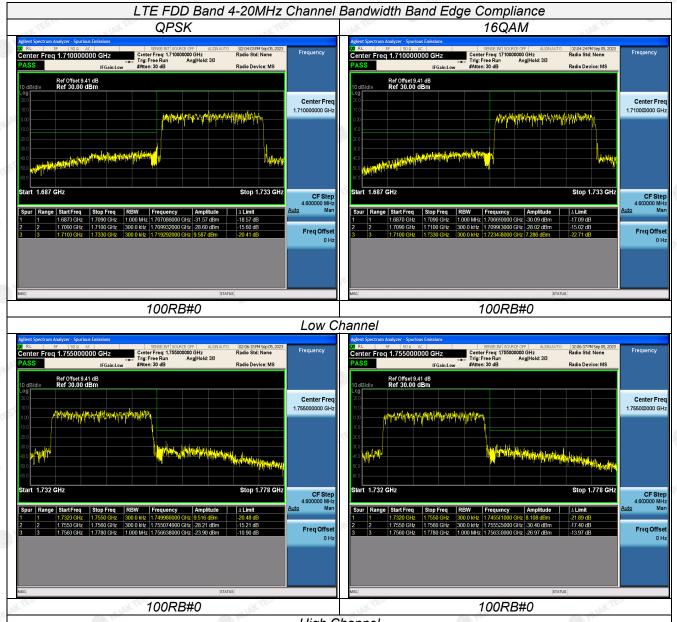
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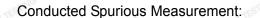


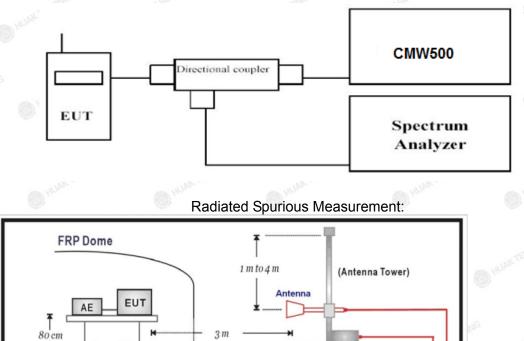
3.5 Spurious Emission

LIMIT

According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.

TEST CONFIGURATION





TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

(Turntable)

Conducted Spurious Measurement:

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.

Pre-Amplifier

Controller

c. EUT Communicate with CMW500, then select a channel for testing.

Ground Plane Spectrum Analyzer

- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to10th harmonic.
- f. Please refer to following tables for test antenna conducted emissions.

Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
	0.000009~0.000015	1KHz	3KHz	Auto
LTE FDD Band 4	0.000015~0.03	10KHz	30KHz	Auto
	0.03~26.5	1 MHz	3 MHz	Auto

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- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- I. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- r. Test site anechoic chamber refer to ANSI C63.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 4; recorded worst case for each Channel Bandwidth of LTE FDD Band 4.

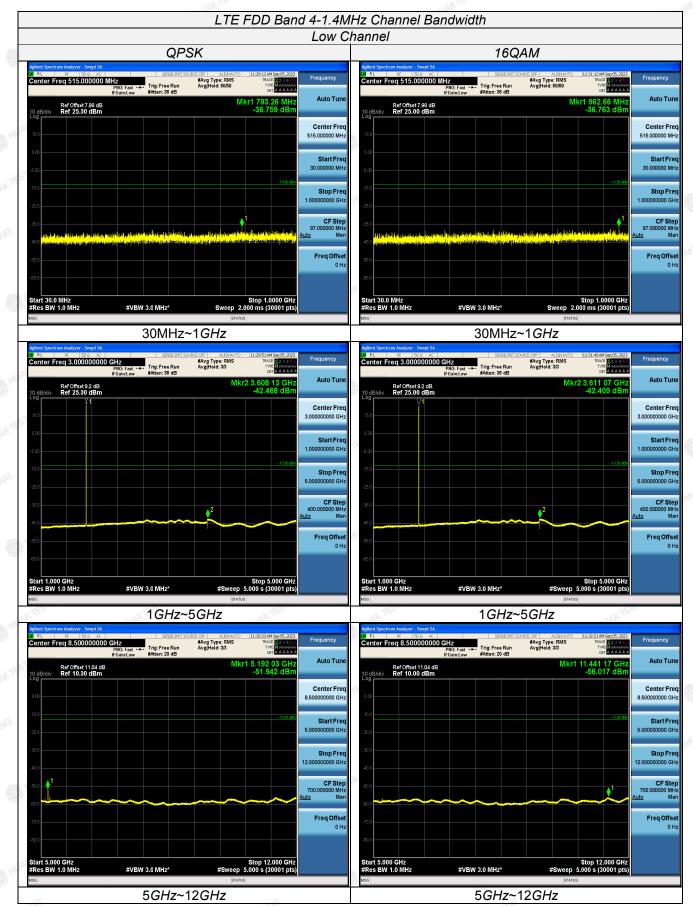
Conducted Measurement:

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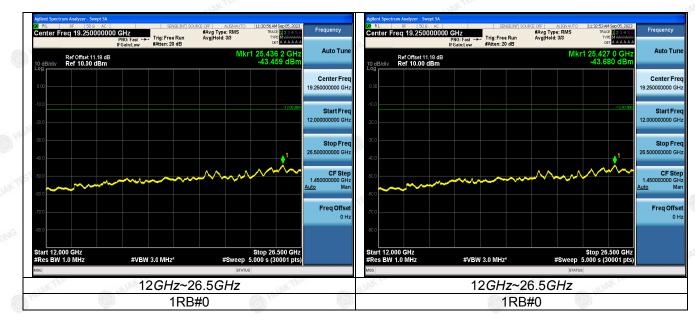
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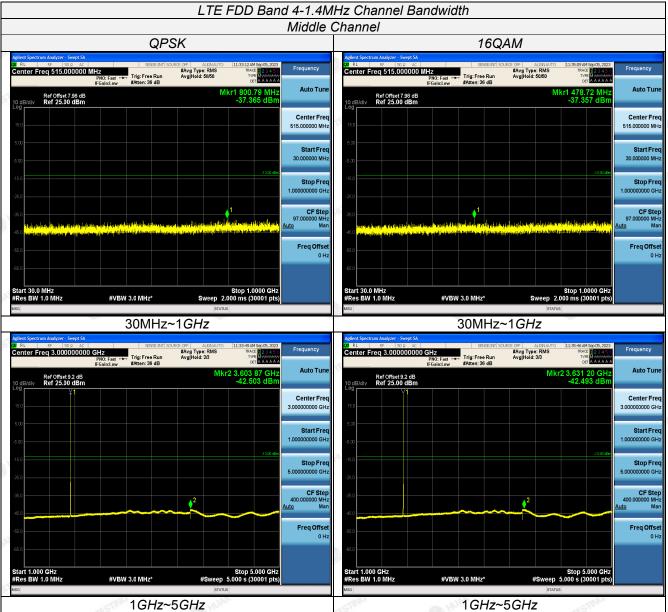


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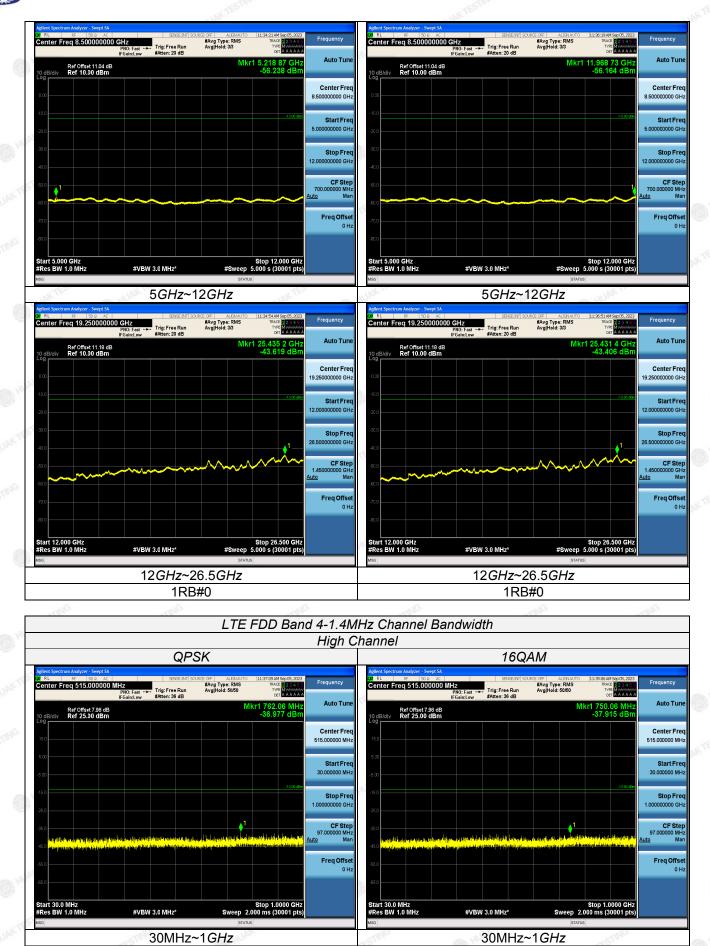
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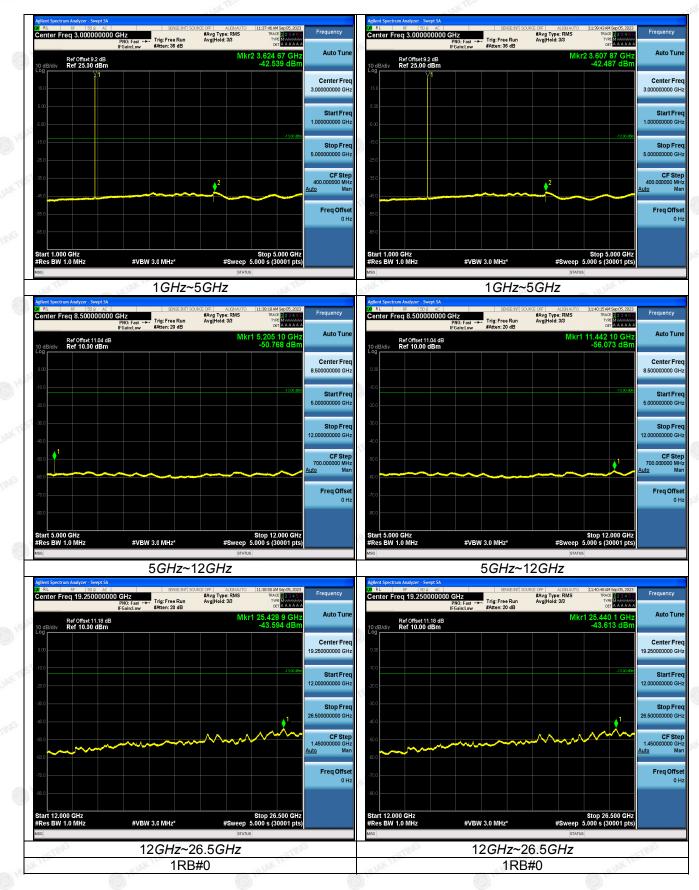
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VOATION



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