

TEST REPORT

Reference No...... : WTF25X08224704W002
FCC ID..... : 2BH83-HERO
Applicant..... : FULL TECHNOLOGY TRADE LIMITED
Address..... : RM 13,UNIT A1,2/F.,PHASE 1,KAISER ESTATE,NO.41 MAN YUE
STREET,HUNGHOM,KLN HONG KONG
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Mobile Phone
Model No...... : HERO
Standards..... : FCC Part 22,FCC Part 24E, FCC Part 27
Date of Receipt sample..... : 2025-08-21
Date of Test..... : 2025-08-21 to 2025-09-11
Date of Issue..... : 2025-09-11
Test Report Form No...... : WTX_Part 22_ Part 24_ Part 27W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

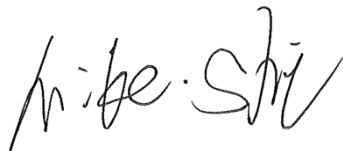
Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

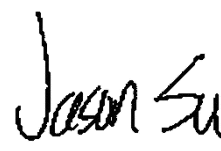
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Tested by:



Mike Shi/Project Engineer

Approved by:



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Report version

Version No.	Date of issue	Description
Rev.00	2025-09-11	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	Mobile Phone
Trade Name:	Lifephone
Model No.:	HERO
Adding Model(s):	/
Rated Voltage:	DC3.85V
Battery:	4900mAh
Adapter Model:	Model:UT-681A-5200MY Input:AC100-220V 50/60Hz 0.35A Output:DC5.0V2.0A 10.0W
IMEI:	/
Device Category:	Portable Device
<i>The test data is gathered from a production sample provided by the manufacturer.</i>	

Technical Characteristics of EUT:	
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 7,12, 13, 17, 66
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 7: Tx: 2500-2570MHz, FDD-LTE Band 12: Tx: 699-716MHz, FDD-LTE Band 13: Tx: 777-787MHz, FDD-LTE Band 17: Tx: 704-716MHz FDD-LTE Band 66: Tx: 1710-1780MHz
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz, FDD-LTE Band 7: Rx: 2620-2690MHz, FDD-LTE Band 12: Rx: 729-746MHz, FDD-LTE Band 13: Rx: 746-756MHz, FDD-LTE Band 17: Rx: 734-746MHz FDD-LTE Band 66: Rx: 2110-2200MHz
RF Output Power:	FDD-LTE Band 2: 21.91dBm, FDD-LTE Band 4: 22.40dBm, FDD-LTE Band 5: 22.39dBm, FDD-LTE Band 7: 21.68dBm, FDD-LTE Band 12: 22.79dBm, FDD-LTE Band 13: 22.45dBm, FDD-LTE Band 17: 22.75dBm FDD-LTE Band 66: 22.27dBm
Type of Emission:	FDD-LTE Band 2: 18M1G7D, 18M1W7D FDD-LTE Band 4: 18M1G7D, 18M2W7D FDD-LTE Band 5: 9M02G7D, 9M02W7D FDD-LTE Band 7: 18M1G7D, 18M1W7D FDD-LTE Band 12: 8M99G7D, 8M99W7D FDD-LTE Band13: 8M99G7D, 8M95W7D FDD-LTE Band 17: 8M99G7D, 8M99W7D FDD-LTE Band 66: 18M1G7D, 18M2W7D
Type of Modulation:	QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	FDD-LTE Band 2: -1.01dBi, FDD-LTE Band 4: -0.08dBi, FDD-LTE Band 5: -0.45dBi, FDD-LTE Band 7: -1.92dBi,

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	FDD-LTE Band 12: -2.07dBi, FDD-LTE Band 13: -1.51dBi, FDD-LTE Band 17: -2.07dBi FDD-LTE Band 66: -0.08dBi
<i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.

FCC Rules Part 22: Private Land Mobile Radio Services.

FCC Rules Part 24: Public Mobile Services.

FCC Rules Part 27: Miscellaneous Wireless Communications Services.

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

KDB 971168 D01 Power Measurement License Digital Systems v03r01: Measurement Guidance for Certification of Licensed Digital Transmitters.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest

possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	FDD-LTE Band 2	Low, Middle, High Channels
TM2	FDD-LTE Band 4	Low, Middle, High Channels
TM3	FDD-LTE Band 5	Low, Middle, High Channels
TM4	FDD-LTE Band 7	Low, Middle, High Channels
TM5	FDD-LTE Band 12	Low, Middle, High Channels
TM6	FDD-LTE Band 13	Low, Middle, High Channels
TM7	FDD-LTE Band 17	Low, Middle, High Channels
TM8	FDD-LTE Band 66	Low, Middle, High Channels

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~75 %
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.75	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone Cable	1.0	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	TianYi 100-14IBD	PF0F4ABV

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	0.57dB
Occupied Bandwidth	Conducted	0.015MHz
Frequency Stability	Conducted	2.3%
Transmitter Spurious Emissions	Conducted	0.42dB
Transmitter Spurious Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041 A1001	Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1022 A1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2025-02-23	2026-02-22
WTXE1104 A1001	MXG Vector Signal Generator	Agilent	N5182A	MY47420108	2025-02-23	2026-02-22
WTXE1104 A1002	DC Power Supply	Agilent	E3634A	MY40009294	2025-02-23	2026-02-22
WTXE1104 A1003	EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2025-02-23	2026-02-22
WTXE1104 A1004	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101559	2025-02-23	2026-02-22
WTXE1018 A1001	Power Divider	Weinschel	1506A	PM204	2025-02-23	2026-02-22
WTXE1104 A1005-2	Band Reject Filter Group	Tonscend	JS0806-F	23A806F0658	2025-02-23	2026-02-22
WTXE1103 A1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1003 A1-005	Coaxial Cable	/	0M4RFC	/	2025-02-23	2026-02-22
☐ Chamber A: Below 1GHz						
WTXE1005 A1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22
WTXE1001 A1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1007 A1001	Amplifier	HP	8447F	2805A03475	2025-02-23	2026-02-22
WTXE1010 A1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1010 A1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
WTXE1104 A1032-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1032-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1032-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22

☒ Chamber A: Above 1GHz						
WTXE1005 A1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2025-02-23	2026-02-22
WTXE1001 A1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
WTXE1065 A1001	Amplifier	C&D	PAP-1.0G18	14918	2025-02-23	2026-02-22
WTXE1010 A1005	Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
WTXE1010 A1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003 A1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1004 A1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22
WTXE1104 A1033-1	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104 A1033-2	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
WTXE1104 A1033-3	Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B: Below 1GHz						
WTXE1010 A1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038 A1001	Amplifier	Agilent	8447D	2944A104 57	2025-02-23	2026-02-22
WTXE1001 A1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
WTXE1104 A1031-1	Coaxial Cable	/	1.5MRFC-LWB 3	/	2025-02-23	2026-02-22
WTXE1104 A1031-2	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104 A1031-3	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C: Below 1GHz						
WTXE1093 A1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1010 A1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007	Amplifier	HP	8447F	2944A038	2025-02-23	2026-02-22

A1002				69		
WTXE1010 A1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
WTXE1104 A1034-1	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1034-2	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1034-3	Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz						
WTXE1093 A1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
WTXE1103 A1005	Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
WTXE1103 A1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2025-02-23	2026-02-22
WTXE1010 A1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
WTXE1003 A1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
WTXE1104 A1035-1	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1035-2	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
WTXE1104 A1035-3	Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#						
WTXE1104 A1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2024-12-08	2025-12-07
WTXE1002 A1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
WTXE1003 A1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
WTXE1104 A1036	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
WTXE1104 A1038	Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#						
WTXE1001 A1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
WTXE1003 A1003	LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22

Reference No.: WTF25X08224704W002

WTXE1104 A1037	Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
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Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
LTE Test System*	Tonscend	JS1120-1	V2.5

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§2.1046, §22.913(a)(2), §24.232(c), §27.50(b)(10), §27.50(c)(10), §27.50(d)(4), §27.50(h)(2)	RF Output Power	N/A
§24.232(d), §27.50(d)(5)	Peak-to-average Ratio (PAR) of Transmitter	N/A
§2.1049	Emission Bandwidth	N/A
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h) §27.53(m)(4)	Spurious Emissions at Antenna Terminal	N/A
§2.1053, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h) §27.53(m)(4)	Spurious Radiation Emissions	Compliant
§2.1051, §22.917(a), §24.238(a), §27.53(c)(2), §27.53(g), §27.53(h), §27.53(m)(4)	Out of Band Emissions	N/A
§2.1055, §22.355, §24.235, §27.54	Frequency Stability	N/A

Class II Permissive Change: DDR model has been changed. The memory package has become larger. Previously it was LPDDR4, now it has been modified to the EMCP format. The PCB model (labeled) has also been changed simultaneously.

Note: Report is for Class II Permissive Change only. Updated test data include Spurious Radiation Emissions. The test data refer to Original equipment (FCC ID: 2BH83-HERO), the original FCC ID issue date: 09/02/2024.

3. Spurious Radiated Emissions

3.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to §27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

3.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

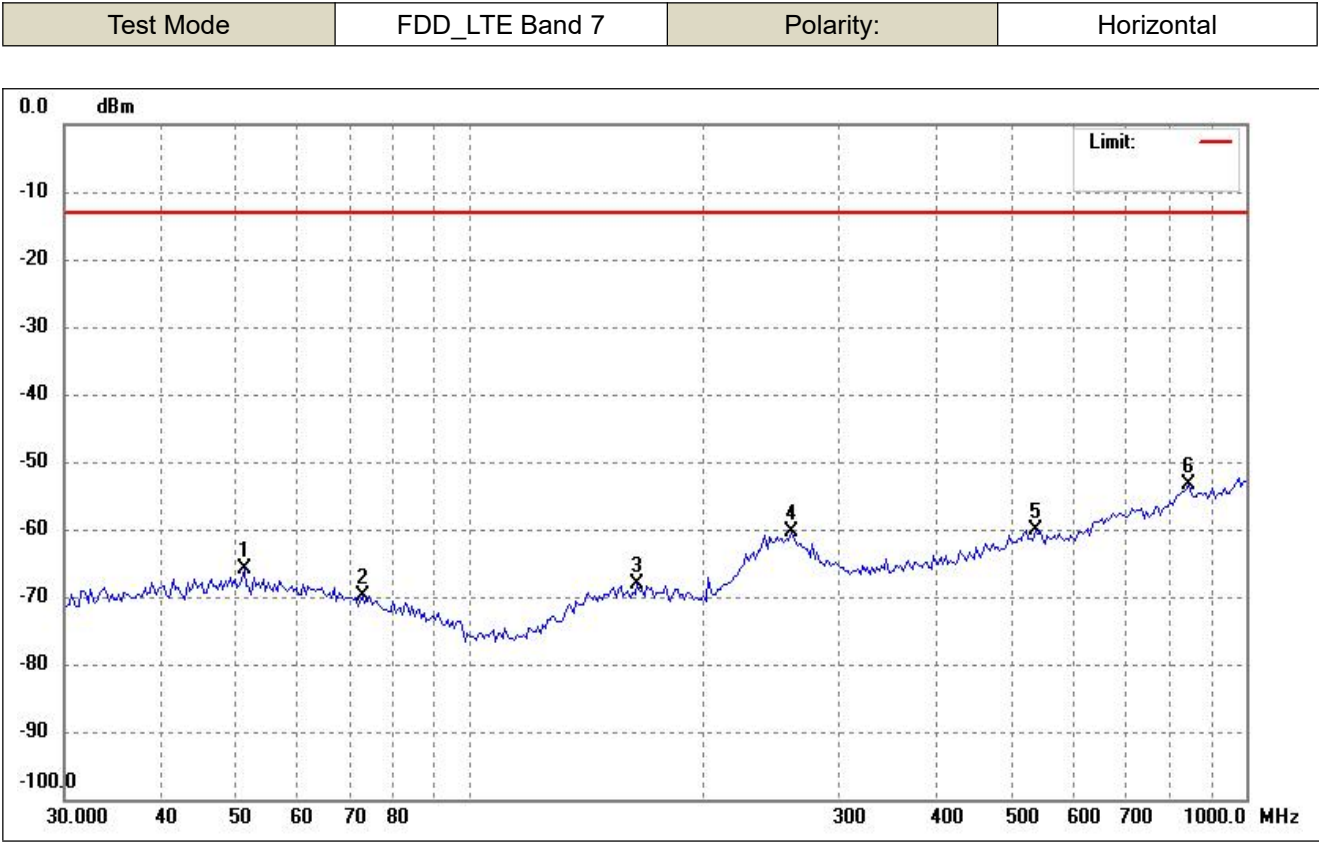
Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

3.3 Summary of Test Results/Plots

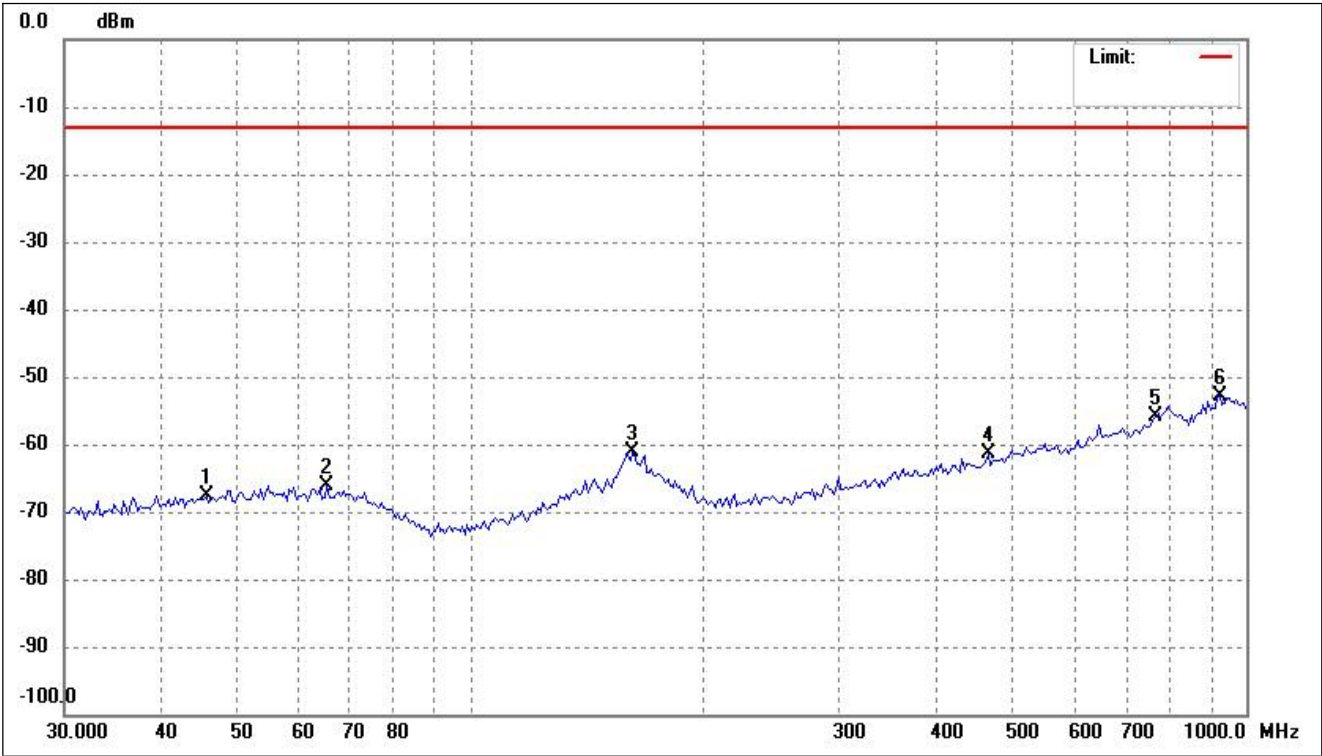
Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.

➤ Spurious Emissions Below 1GHz



Test Mode	FDD_LTE Band 7	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBm)	Correct (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	45.7333	-70.60	3.09	-67.51	-13.00	-54.51	ERP
2	65.4452	-69.42	3.18	-66.24	-13.00	-53.24	ERP
3	162.0197	-68.57	7.57	-61.00	-13.00	-48.00	ERP
4	464.8867	-67.88	6.54	-61.34	-13.00	-48.34	ERP
5	765.6482	-67.76	11.78	-55.98	-13.00	-42.98	ERP
6	925.6132	-65.22	12.44	-52.78	-13.00	-39.78	ERP

Note: Margin= (Reading+ Correct)- Limit

➤ Spurious Emissions Above 1GHz

For FDD_LTE Band 7 Mode

Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (2502.5MHz)				
5005.00	-34.11	-13	-21.11	H
7507.50	-27.65	-13	-14.65	H
5005.00	-33.80	-13	-20.80	V
7507.50	-39.97	-13	-26.97	V
Middle Channel (2535MHz)				
5070.00	-34.92	-13	-21.92	H
7605.00	-26.97	-13	-13.97	H
5070.00	-35.49	-13	-22.49	V
7605.00	-39.80	-13	-26.80	V
High Channel (3540.00MHz)				
5135.00	-32.71	-13	-19.71	H
7702.50	-27.64	-13	-14.64	H
5135.00	-34.18	-13	-21.18	V
7702.50	-40.52	-13	-27.52	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****