

EVALUATION REPORT

Applicant Name:

LG Electronics MobileComm U.S.A., Inc.

Address:

1000 Sylvan Avenue, Englewood Cliffs NJ 07632

Date of Issue :

June 13, 2017

Test Site/Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majangmyeo, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

FCC ID : ZNFM700F

APPLICANT : LG Electronics MobileComm U.S.A., Inc.

Test Data Re-Use Summary

Introduction

FCC ID : ZNFM700F

Equipment Class(es) : PCE, DTS, DSS

Rule Part(s) : 2, 15, 22, 24, 27

Application's Statement : The applicant takes full responsibility that the test data referenced below represents compliance for this FCC ID.

Differences

Brief Description :

Some Cellular parts, Bluetooth & WLAN hardware and software of this device are identical to the implementation in ZNFM700H. The operational description includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.

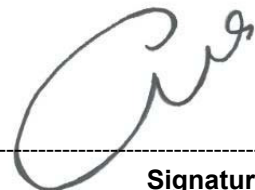
Spot Check Verification Result Summary

(Note: The detail test data can be found in this documents, Appendix A, hereafter)

Category	Spot Check	Verdict
Licensed EMC	ERP / EIRP	GSM850 / WCDMA B5 / LTE B5, 7 Share
	RSE	GSM850 / WCDMA B5 / LTE B7 Share
Unlicensed EMC	Band Edge	Share
	Spurious Emissions	Share

Reference Detail Section

Reference FCC ID	Equipment Class	Folder Test / RF Exposure	Report Title / Section
ZNFM700H	PCE	LTE Report	LTE B5(ERP) / LTE B7(EIRP, RSE)
		GSM WCDMA Report	GSM/WCDMA 850(ERP, RSE)
	DSS	Bluetooth Report	All Sections
	DTS	WLAN DTS Report	All Sections
		BT LE Report	All Sections



Signature

Research Engineer / Yunseok Lee
HCT CO., LTD

HCT CO., LTD

Appendix A. The Spot check test data

1. Summary of the spot check for Licensed EMC

EFFECTIVE RADIATED POWER (GSM850) / (WCDMA850)

Modulation	Frequency		Mode	ZNFM700H (Reference)	ZNFM700F (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				ERP	ERP	
	MHz	Ch.		(dBm)	(dBm)	
GSM850	836.6	190	VOICE	22.90	23.18	0.28
WCDMA850	836.6	4183	RMC	18.67	18.47	-0.20

RADIATED SPURIOUS EMISSIONS (GSM850) / (WCDMA850)

Modulation	Frequency		Mode	ZNFM700H (Reference)	ZNFM700F (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				ERP	ERP	
	MHz	Ch.		(dBm)	(dBm)	
GSM850	2509.80	190	VOICE	-37.02	-34.92	2.10
WCDMA850	2509.80	4183	RMC	-42.97	-44.62	-1.65

EFFECTIVE RADIATED POWER (LTE – Band 5)

Modulation	Frequency		Mode Bandwidth	ZNFM700H (Reference)	ZNFM700F (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				ERP	ERP	
	MHz	Ch.		(dBm)	(dBm)	
LTE – B5	836.5	20525	QPSK(10M)	17.45	17.40	-0.05

EQUIVALENT ISOTROPIC RADIATED POWER (LTE – Band 7)

Modulation	Frequency		Mode Bandwidth	ZNFM700H (Reference)	ZNFM700F (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				EIRP	EIRP	
	MHz	Ch.		(dBm)	(dBm)	
LTE – B7	2562.5	21375	QPSK(15M)	19.28	20.15	0.87

RADIATED SPURIOUS EMISSIONS (LTE – Band 7)

Modulation	Frequency		Mode Bandwidth	ZNFM700H (Reference)	ZNFM700F (Reuse)	deviation
				(Reference test data)	(Spot check test data)	
				EIRP	EIRP	
	MHz	Ch.		(dBm)	(dBm)	
LTE – B7	7687.5	21375	QPSK(15M)	-41.62	-44.53	-2.91

2. Summary of the spot check for Unlicensed EMC

Report	Test Item	Channel	Measured Frequency	LG-M700H Result [dBuV/m]		LG-M700F Result [dBuV/m]		Gap [dB]	
				Peak	Average	Peak	Average	Peak	Average
BT	Band Edge	78	2483.5 MHz~2500 MHz	67.16	37.61	67.40	38.07	0.24	0.46
	RSE	78	7440 MHz	60.22	48.10	59.47	47.14	-0.75	-0.96
BT LE	Band Edge	39	2483.5 MHz~2500 MHz	54.14	43.30	53.89	43.04	-0.25	-0.26
	RSE	39	7440 MHz	58.76	45.98	58.31	45.92	-0.45	-0.06
DTS	Band Edge	11	2483.5 MHz~2500 MHz	65.64	47.48	65.54	47.85	-0.10	0.37
	RSE	11	4924 MHz	54.61	47.15	53.84	46.85	-0.77	-0.30