FCC REPORT

Applicant: Infinity System, SL

Address of Applicant: A-2 KM 48.5 Pol. Ind de Cabanillas. Parcela 12B 19171

Guadalajara (SPAIN)

Equipment Under Test (EUT)

Product Name: Smartphone

Model No.: TM5HLM

FCC ID: 2AC99TM5HLM

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 24 Sep., 2015

Date of Test: 25 Sep., to 22 Oct., 2015

Date of report issued: 22 Oct., 2015

Test Result: Pass *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	22 Oct., 2015	Original

Tested by: Date: 22 Oct., 2015

Test\Engineer

Reviewed by: Date: 22 Oct., 2015

Project Engineer





3 Contents

			Page
1	С	OVER PAGE	1
2	٧	ERSION	2
3	С	CONTENTS	3
4	Т	EST SUMMARY	4
5	G	SENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	
	5.3	TEST MODE	
	5.4	DESCRIPTION OF SUPPORT UNITS	6
	5.5	LABORATORY FACILITY	6
	5.6	LABORATORY LOCATION	6
	5.7	TEST INSTRUMENTS LIST	
6	Т	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	11
7	Т	EST SETUP PHOTO	17
8	F	UT CONSTRUCTIONAL DETAILS	18





4 Test Summary

Test Item	Section in CFR 47	Uncertainty	Result
Conducted Emission	Part 15.107	±3.28dB	Pass
Radiated Emission	Part 15.109	±4.88dB	Pass

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Infinity System, SL
Address of Applicant:	A-2 KM 48.5 Pol. Ind de Cabanillas. Parcela 12B 19171 Guadalajara (SPAIN)
Manufacturer:	Infinity System, SL
Address of Manufacturer:	A-2 KM 48.5 Pol. Ind de Cabanillas. Parcela 12B 19171 Guadalajara (SPAIN)

5.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	TM5HLM
Power supply:	Rechargeable Li-ion Battery DC3.8V/2200mAh
AC adapter :	Model:T5HLMCH Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX 1000mA
Remark:	Model No.: TM5HLM were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being have two colours.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+recording mode	Keep the EUT in Charging+recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC OPTIPLEX745		N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing 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 out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366



5.7 Test Instruments list

Radiated Emission:							
Item	Item Test Equipment Manufacturer		Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017	
2	2 BiConiLog Antenna SCHWARZBECK MESS-ELEKTRONIK		VULB9163	CCIS0005	03-28-2015	03-28-2016	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016	
4	4 EMI Test Software AUDIX		E3	N/A	N/A	N/A	
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016	
6	Amplifier Compliance Direction (1GHz-18GHz) Systems Inc.		PAP-1G18	CCIS0011	04-01-2015	03-31-2016	
7	Printer HP		HP LaserJet P1007	N/A	N/A	N/A	
8	B Positioning Controller UC		UC3000	CCIS0015	N/A	N/A	
9	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016	
10	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016	

Cond	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date				
item	rest Equipment	Manadatarer	Model No.	No.	(mm-dd-yy)	(mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016				



6 Test results and Measurement Data

6.1 Conducted Emission

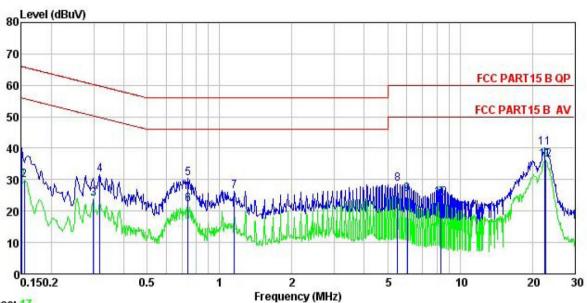
Test Method: ANSI C63.4:2009 Test Frequency Range: Class / Severity: Class / Severity: Class / Severity: Receiver setup: Prequency range (MHz) O.15-0.5 O.5-5 O.5-5 Decreases with the logarithm of the frequency. Reference Plane LISN Fedulpment LISN Fedulpment LISN LISN List provide a Solohm/South coupling impedance with 500h termination. (Please refers to the block diagram of the rest setup ar photographs). Test environment: Test environment: Test environment: Test environment: Temp:: 23 °C Humid:: 56% Press:: 1 01kPa		 1							
Test Frequency Range: Class J Severity: Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 0.5-30 60 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN AUX Equipment Under Test LISN LISN Frest abelinisulation plane Receiver Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through the provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Test environment: Temp.: 23 °C Humid: 56% Press.: 1 01kPa	Test Requirement:	FCC Part 15 B Section 15.10)7						
Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak 0.15-0.5 66 to 56* 56 to 46* 0.5-30 * Decreases with the logarithm of the frequency. Reference Plane LISN Fequipment LISN AUX Equipment LISN Fest table/Insulation plane Receiver Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50oh termination. (Please refers to the block diagram of the test setup are photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 1 01kPa	Test Method:	ANSI C63.4:2009							
Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 0.5-5 56 46 0.5-30 * Decreases with the logarithm of the frequency. Reference Plane LISN Aux ELU.T Equipment Under Test LUSN Line impedence Stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment:	Test Frequency Range:								
Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56° 56 to 46° 0.5-30 60 50 * Decreases with the logarithm of the frequency. Test setup: Reference Plane LISN Augusted Holder Test LISN Line Impedence Stabilization Network Test table/Insulation plane 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup are photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: T	Class / Severity:	Class B							
Test procedure Test procedure Test procedure Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance of the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 101kPa	Receiver setup:	RBW=9kHz, VBW=30kHz							
Test procedure 1. The E.U.T and simulations are connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 500m/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 1. The peripheral devices are also connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 500m/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 500m/50uH coupling impedance with 500m termination. (Please refers to the block diagram of the test setup are photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 1 01kPa	Limit:	Frequency range (MHz)	Limit	(dBµV)					
Test setup: Reference Plane									
Test setup: Reference Plane									
* Decreases with the logarithm of the frequency. Test setup: **Reference Plane* **LISN Ac power LISN Edulpment LISN Edulpment LISN List LISN List L									
Test setup: Reference Plane LISN Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table Planel E.U.T and simulators are connected to the main power through line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50oh termination. (Please refers to the block diagram of the test setup ar photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 101kPa									
Test procedure 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500h termination. (Please refers to the block diagram of the test setup are photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 1 101kPa	Test setup:		•						
50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power throu a LISN that provides a 50ohm/50uH coupling impedance with 50oh termination. (Please refers to the block diagram of the test setup ar photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be chan according to ANSI C63.4: 2009 on conducted measurement. Test environment: Temp.: 23 °C Humid.: 56% Press.: 1 01kPa	Test procedure	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators	Filter AC po	nain power through a					
1 125 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 50ohm/50uH coupling imp 2. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). 3. Both sides of A.C. line are interference. In order to fir positions of equipment and 	pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram of the checked for maximum and the maximum emiss dall of the interface ca	ring equipment. e main power through pedance with 50ohm of the test setup and m conducted cion, the relative bles must be changed					
	Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa					
Measurement Record: Uncertainty: 3.28dE	Measurement Record:		· ' (Jncertainty: 3.28dB					
Test Instruments: Refer to section 5.7 for details	Test Instruments:	Refer to section 5.7 for detail	ls						
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for detail	ls						
Test results: Pass	Test results:	Pass							





Measurement data:

Line:



Trace: 17 Site

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Smartphone

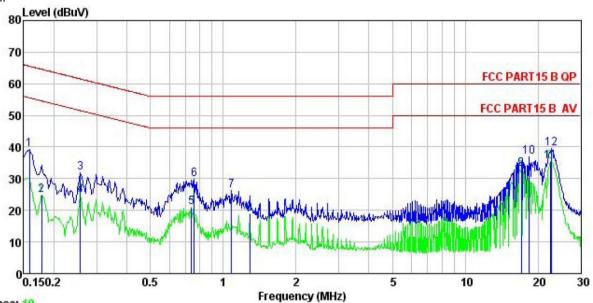
Condition EUT Model : TM5HLM Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: MT.liang

Remark	:							
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>		dBu∜	dBu₹	<u>dB</u>	
1	0.150	29.15	0.27	10.78	40.20	66.00	-25.80	QP
2	0.154	18.71	0.27	10.78	29.76	55.78	-26.02	Average
3	0.299	12.92	0.26	10.74	23.92	50.28	-26.36	Average
4	0.318	20.73	0.26	10.74	31.73	59.75	-28.02	QP
1 2 3 4 5 6 7 8 9	0.739	19.41	0.22	10.79	30.42	56.00	-25.58	QP
6	0.739	11.14	0.22	10.79	22.15	46.00	-23.85	Average
7	1.153	15.28	0.25	10.89	26.42	56.00	-29.58	QP
8	5.505	17.60	0.30	10.83	28.73	60.00	-31.27	QP
9	6.024	14.30	0.31	10.82	25.43	50.00	-24.57	Average
10	8.323	13.00	0.32	10.87	24.19	50.00	-25.81	Average
11	22.535	28.74	0.44	10.89	40.07	60.00	-19.93	QP
12	22.655	25.11	0.44	10.89	36.44	50.00	-13.56	Average





Neutral:



Trace: 19

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Smartphone : TM5HLM EUT Model

Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: MT.liang

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	₫B	dBu₹	—dBu∇	<u>ab</u>	
1	0.158	28.13	0.25	10.78	39.16	65.56	-26.40	QP
2	0.178	13.91	0.25	10.77	24.93	54.59	-29.66	Average
2	0.258	20.78	0.26	10.75	31.79	61.51	-29.72	QP
4	0.258	13.83	0.26	10.75	24.84	51.51	-26.67	Average
5	0.739	10.10	0.19	10.79	21.08	46.00	-24.92	Average
6 7	0.759	18.91	0.19	10.80	29.90	56.00	-26.10	QP
7	1.082	15.19	0.23	10.88	26.30	56.00	-29.70	QP
8 9	1.289	7.78	0.25	10.90	18.93	46.00	-27.07	Average
9	17.018	21.85	0.25	10.91	33.01	50.00	-16.99	Average
10	18.328	25.83	0.26	10.91	37.00	60.00	-23.00	QP
11	22.416	24.29	0.37	10.90	35.56	50.00	-14.44	Average
12	22.775	28.19	0.39	10.89	39.47	60.00	-20.53	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





6.2 Radiated Emission

6.2 Radiated Emission									
Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2009								
Test Frequency Range:	30MHz to 6000MHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency Detector RBW VBW Rema								
	30MHz- 1GHz			120kHz	300k	Hz	Quasi-peak Value		
	Above 1GHz	Pea RMS			3M⊦ 3M⊦		Peak Value Average Value		
Limit:	Frequen			(dBuV/m @			Remark		
	30MHz-88			40.0	,	(Quasi-peak Value		
	88MHz-216			43.5			Quasi-peak Value		
	216MHz-96	0MHz		46.0			Quasi-peak Value		
	960MHz-1	GHz		54.0			Quasi-peak Value		
	Al 40	NI -		54.0			Average Value		
	Above 10	ÞΗΖ		74.0			Peak Value		
Test setup:	Below 1GHz								
	Search Antenna RF Test Receiver Ground Plane Above 1GHz Ground Reference Plane Test Receiver Test Receiver								





Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: 4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

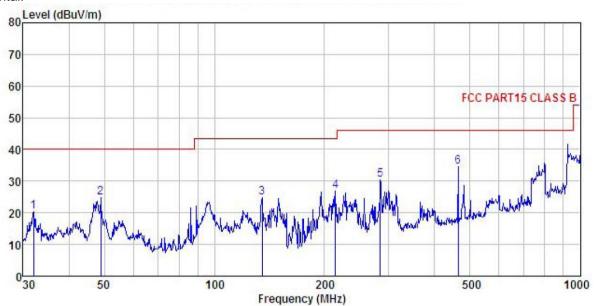




Measurement Data

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

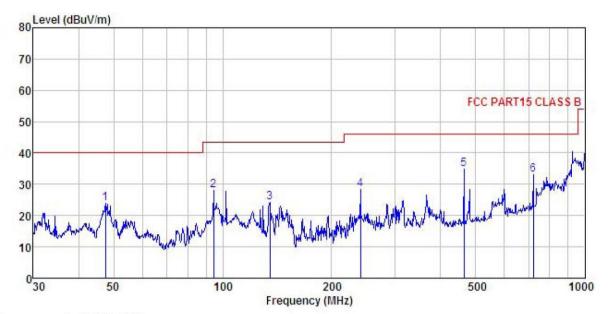
: Smartphone
Model : TM5HLM
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT.liang
REMARK :

EMAKK										
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
_	MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>		
1	32.067	37.45	12.32	0.45	29.97	20.25	40.00	-19.75	QP	
2	48.843	40.59	13.32	0.60	29.83	24.68	40.00	-15.32	QP	
2	135.032	44.25	8.56	1.23	29.30	24.74	43.50	-18.76	QP	
4	214.514	42.99	11.03	1.46	28.74	26.74	43.50	-16.76	QP	
4 5	283.979	44.50	12.75	1.72	28.48	30.49	46.00	-15.51	QP	
6	463.970	45.46	15.71	2.30	28.89	34.58	46.00	-11.42	QP	





Vertical:



Site Condition : 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL

EUT : Smartphone Model : TM5HLM

Test mode : PC mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: MT.liang

RFMARK

REMARK

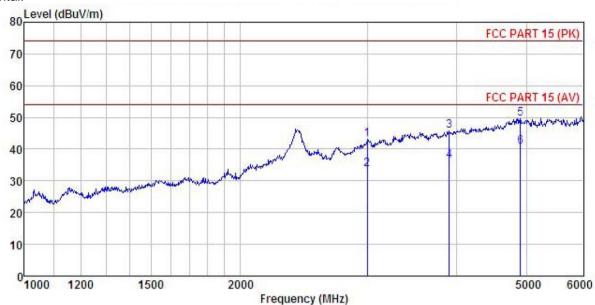
Freq								
MHz	dBu∀	<u>d</u> B/m		<u>ab</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
47.492	39.79	13.41	0.59	29.84	23.95	40.00	-16.05	QP
94.428	43.81	12.75	0.93	29.55	27.94	43.50	-15.56	QP
135.032	43.83	8.56	1.23	29.30	24.32	43.50	-19.18	QP
239.987	43.14	12.09	1.58	28.59	28.22	46.00	-17.78	QP
463.970	45.61	15.71	2.30	28.89	34.73	46.00	-11.27	QP
721.726	39.56	19.10	2.97	28.58	33.05	46.00	-12.95	QP
	MHz 47. 492 94. 428 135. 032 239. 987 463. 970	Freq Level MHz dBuV 47.492 39.79 94.428 43.81 135.032 43.83 239.987 43.14 463.970 45.61	Freq Level Factor MHz dBuV dB/m 47.492 39.79 13.41 94.428 43.81 12.75 135.032 43.83 8.56 239.987 43.14 12.09 463.970 45.61 15.71	Freq Level Factor Loss MHz dBuV dB/m dB 47.492 39.79 13.41 0.59 94.428 43.81 12.75 0.93 135.032 43.83 8.56 1.23 239.987 43.14 12.09 1.58 463.970 45.61 15.71 2.30	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 47.492 39.79 13.41 0.59 29.84 94.428 43.81 12.75 0.93 29.55 135.032 43.83 8.56 1.23 29.30 239.987 43.14 12.09 1.58 28.59 463.970 45.61 15.71 2.30 28.89	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 47.492 39.79 13.41 0.59 29.84 23.95 94.428 43.81 12.75 0.93 29.55 27.94 135.032 43.83 8.56 1.23 29.30 24.32 239.987 43.14 12.09 1.58 28.59 28.22 463.970 45.61 15.71 2.30 28.89 34.73	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 47.492 39.79 13.41 0.59 29.84 23.95 40.00 94.428 43.81 12.75 0.93 29.55 27.94 43.50 135.032 43.83 8.56 1.23 29.30 24.32 43.50 239.987 43.14 12.09 1.58 28.59 28.22 46.00 463.970 45.61 15.71 2.30 28.89 34.73 46.00	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 47.492 39.79 13.41 0.59 29.84 23.95 40.00 -16.05 94.428 43.81 12.75 0.93 29.55 27.94 43.50 -15.56 135.032 43.83 8.56 1.23 29.30 24.32 43.50 -19.18 239.987 43.14 12.09 1.58 28.59 28.22 46.00 -17.78 463.970 45.61 15.71 2.30 28.89 34.73 46.00 -11.27





Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Smartphone : Smartphone
Model : TM5HLM
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: STEVEN
RFMARK

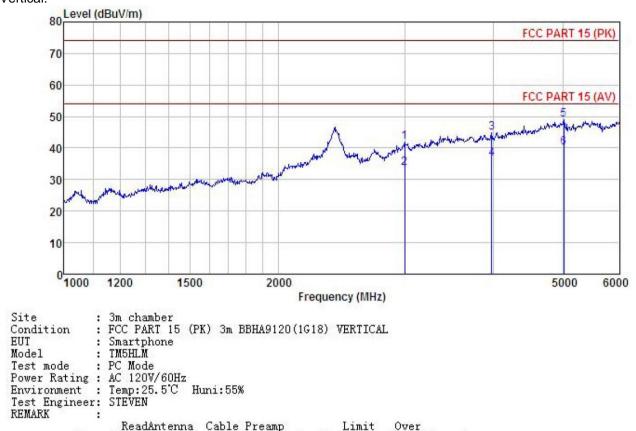
REMARK

			Antenna				Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-	MHz	dBu₹	<u>dB</u> /m	d <u>B</u>	dB	dBuV/m	dBuV/m	<u>dB</u>		
1	3002.482	47.45	28.47	7.82	40.52	43.22	74.00	-30.78	Peak	
2	3002.482	38.02	28.47	7.82	40.52	33.79	54.00	-20.21	Average	
3	3904.529	47.50	29.75	9.46	40.89	45.82	74.00	-28.18	Peak	
4	3904.529	37.86	29.75	9.46	40.89	36.18	54.00	-17.82	Average	
5	4902.811	47.47	31.59	10.67	40.10	49.63	74.00	-24.37	Peak	
6	4902.811	38.46	31.59	10.67	40.10	40.62	54.00	-13.38	Average	





Vertical:



PHEHA									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
<u></u>	MHz	dBu₹	<u>dB</u> /π	dB	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1	3002.482	46.08	28.47	7.82	40.52	41.85	74.00	-32.15	Peak
2	3002.482	37.77	28.47	7.82	40.52	33.54	54.00	-20.46	Average
3	3973.512	46.57	29.82	9.57	41.10	44.86	74.00	-29.14	Peak
4	3973.512	38.21	29.82	9.57	41.10	36.50	54.00	-17.50	Average
5	5018.643	46.24	31.85	10.80	39.99	48.90	74.00	-25.10	Peak
6	5018.643	37.56	31.85	10.80	39.99	40.22	54.00	-13.78	Average