Report No: CCIS15110087404

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.: TM54SM

Trade mark: AIRIS

FCC ID: 2AC99TM54SM

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 12 Nov., 2015

Date of Test: 12 Nov., to 04 Dec., 2015

Date of report issued: 04 Dec., 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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





2 Version

Version No.	Date	Description
00	04 Dec., 2015	Original

Tested by:

Zora Lee Date: 04 Dec., 2015

Test Engineer

Reviewed by:

Date: 04 Dec., 2015

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	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.:	TM54SM			
Power supply:	Rechargeable Li-ion Battery DC3.8V-1900mAh			
	Model: T54SMCH			
AC adapter :	Input:100-240V AC, 50/60Hz 0.15A			
	Output:5V DC MAX 1000mA			

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.



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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



Report No: CCIS15110087404

5.7 Test Instruments list

Radia	Radiated Emission:									
Item Test Equipment		st Equipment Manufacturer Model No		Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017				
2	BiConiLog Antenna SCHWARZBECK		VULB9163	CCIS0005	03-28-2015	03-28-2016				
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016				
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016				
Pre-amplifier 5 (1GHz-18GHz)		Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016				
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016				
7	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				
iteiii	rest Equipment	Wallulacturei	Wodel 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

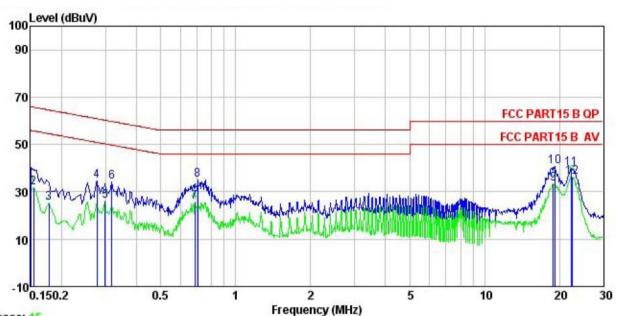
			1					
Test Requirement:	FCC Part 15 B Section 15.107							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz						
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:	Frequency range (MHz) Limit (dBµV)							
		Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5 0.5-30	56 60	46 50					
	* Decreases with the logarith		50					
Test setup:	Reference Plan	· · · · ·						
	AUX Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC I	power					
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). To be dance for the measure also connected to the ohm/50uH coupling in a to the block diagrams of the maximum emised all of the interface contents.	The provide a curing equipment. The main power through a pedance with 500hm of the test setup and a conducted sion, the relative ables must be changed					
Test environment:	Temp.: 23 °C Hun	nid.: 56% P	ress.: 101kPa					
Measurement Record:		<u> </u>	Jncertainty: ±3.28dB					
Test Instruments:	Refer to section 5.7 for detail		·					
Test mode:	Refer to section 5.3 for detail							
Test results:	Pass							





Measurement data:

Line:



Trace: 15 Site

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

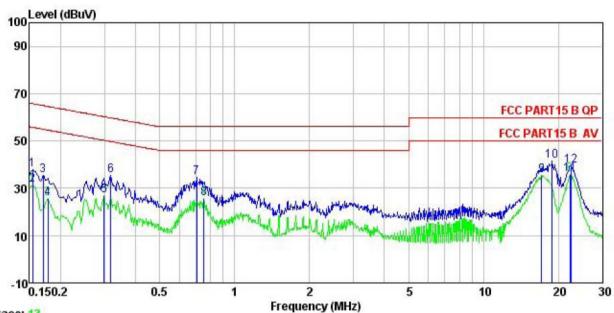
EUT : Smartphone Model : TM54SM Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora Remark

Kemark									
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
	MHz	dBu∀	<u>dB</u>	₫B	dBu∜	dBu∀	<u>dB</u>		
1	0.150	29.24	0.27	10.78	40.29	66.00	-25.71	QP	
2	0.154	20.63	0.27	10.78	31.68	55.78	-24.10	Average	
3	0.178	14.27	0.28	10.77	25.32	54.59	-29.27	Average	
4	0.277	23.58	0.26	10.74	34.58	60.90	-26.32	QP	
5	0.299	15.25	0.26	10.74	26.25	50.28	-24.03	Average	
6	0.318	23.15	0.26	10.74	34.15	59.75	-25.60	QP	
7	0.686	14.70	0.22	10.77	25.69	46.00	-20.31	Average	
8	0.705	24.04	0.22	10.77	35.03	56.00	-20.97	QP	
1 2 3 4 5 6 7 8 9	18.920	22.24	0.34	10.92	33.50	50.00	-16.50	Average	
10	19.122	29.38	0.34	10.92	40.64	60.00	-19.36	QP	
11	22.298	28.53	0.42	10.90	39.85	60.00	-20.15	QP	
12	22, 535	25, 11	0.44	10.89	36.44	50.00	-13.56	Average	



Neutral:



Trace: 13

Site

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

EUT : Smartphone Model : TM54SM Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora

Remark

	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
_	MHz	dBu∀	dB	dB	dBu₹	dBu∜	<u>dB</u>	
1	0.154	27.00	0.25	10.78	38.03	65.78	-27.75	QP
2	0.154	20.29	0.25	10.78	31.32	55.78	-24.46	Average
3	0.170	24.46	0.25	10.77	35.48	64.94	-29.46	QP
1 2 3 4 5 6 7	0.178	14.88	0.25	10.77	25.90	54.59	-28.69	Average
5	0.299	15.88	0.26	10.74	26.88	50.28	-23.40	Average
6	0.318	24.47	0.26	10.74	35.47	59.75	-24.28	QP
7	0.705	23.60	0.18	10.77	34.55	56.00	-21.45	QP
8	0.751	14.57	0.19	10.79	25.55	46.00	-20.45	Average
9	17.109	24.23	0.25	10.91	35.39	50.00	-14.61	Average
10	18.920	30.34	0.26	10.92	41.52	60.00	-18.48	QP
11	22.298	24.44	0.36	10.90	35.70	50.00	-14.30	Average
12	22.416	28.30	0.37	10.90	39.57	60.00	-20.43	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 Remar							
	30MHz-1GHz	-peak	120kHz	300k		Quasi-peak Value		
	Above 1GHz	Pea			3MHz 3MHz		Peak Value Average Value	
Limit:	Frequency Limit (dBuV/m @3m					Remark		
Limit.	30MHz-88M	•	Liiiii	40.0	20111)	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G			54.0			Quasi-peak Value	
				54.0			Average Value	
	Above 1GI	Ηz		74.0			Peak Value	
Test setup:	Below 1GHz							
	Search Antenna RF Test Receiver Turn Table Ground Plane							
	Above 1GHz							
	SOCM -	E EUT	EUT Horn Antenna Tower					





Test Procedure:	 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. 						
	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						

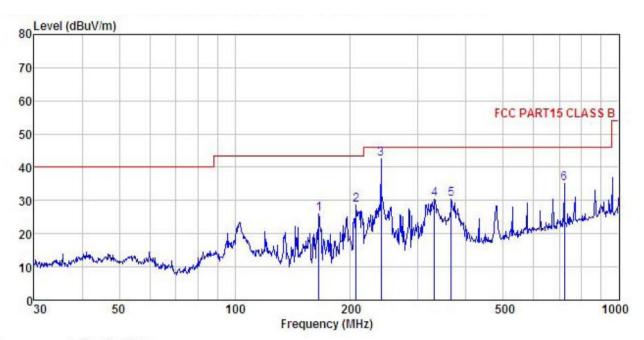




Measurement Data

Below 1GHz

Horizontal:



Site

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

: Smartphone : TM54SM EUT Model Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

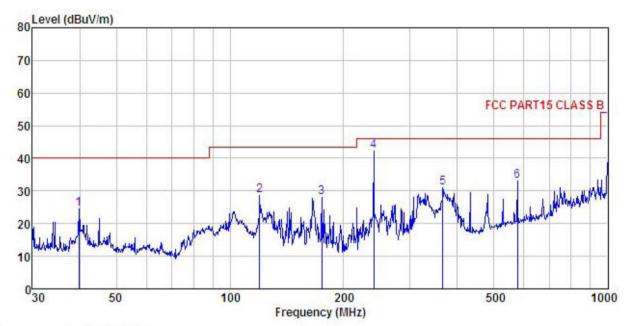
Test Engineer: Zora

	0.0000000000000000000000000000000000000		26 9 S S S S S S S S S S S S S S S S S S			1715/1701 - 1740/190	5990-01-0	
	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
165.487	44.87	8.82	1.34	29.09	25.94	43.50	-17.56	QP
207.123	45.20	10.80	1.42	28.78	28.64	43.50	-14.86	QP
239.987	57.38	12.09	1.58	28.59	42.46	46.00	-3.54	QP
331.355	43.13	13.79	1.88	28.52	30.28	46.00	-15.72	QP
365.539	42.47	14.48	2.00	28.63	30.32	46.00	-15.68	QP
721.726	41.57	19.10	2.97	28.58	35.06	46.00	-10.94	QP
	MHz 165.487 207.123 239.987 331.355 365.539	Freq Level MHz dBuV 165.487 44.87 207.123 45.20 239.987 57.38 331.355 43.13 365.539 42.47	MHz dBuV dB/m 165.487 44.87 8.82 207.123 45.20 10.80 239.987 57.38 12.09 331.355 43.13 13.79 365.539 42.47 14.48	Freq Level Factor Loss MHz dBuV dB/m dB 165.487 44.87 8.82 1.34 207.123 45.20 10.80 1.42 239.987 57.38 12.09 1.58 331.355 43.13 13.79 1.88 365.539 42.47 14.48 2.00	MHz dBuV dB/m dB dB 165.487 44.87 8.82 1.34 29.09 207.123 45.20 10.80 1.42 28.78 239.987 57.38 12.09 1.58 28.59 331.355 43.13 13.79 1.88 28.52 365.539 42.47 14.48 2.00 28.63	MHz dBuV dB/m dB dB dBuV/m 165.487 44.87 8.82 1.34 29.09 25.94 207.123 45.20 10.80 1.42 28.78 28.64 239.987 57.38 12.09 1.58 28.59 42.46 331.355 43.13 13.79 1.88 28.52 30.28 365.539 42.47 14.48 2.00 28.63 30.32	MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m 165.487 44.87 8.82 1.34 29.09 25.94 43.50 207.123 45.20 10.80 1.42 28.78 28.64 43.50 239.987 57.38 12.09 1.58 28.59 42.46 46.00 331.355 43.13 13.79 1.88 28.52 30.28 46.00 365.539 42.47 14.48 2.00 28.63 30.32 46.00	MHz dBuV dB/m dB dB dBuV/m dBuV/m <t< td=""></t<>





Vertical:



Site

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

EUT : Smartphone Model : TM54SM
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5 C Huni:55%

Test Engineer: Zora REMARK :

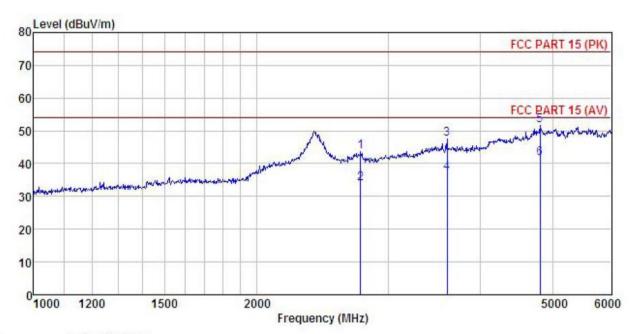
THEFT									
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_	MHz	dBu₹	$\overline{dB/m}$	<u>dB</u>	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	dB	
1	39.854	40.21	13.53	0.52	29.90	24.36	40.00	-15.64	QP
2	119.856	46.46	10.48	1.12	29.39	28.67	43.50	-14.83	QP
3	175.037	46.45	9.29	1.35	29.01	28.08	43.50	-15.42	QP
4	239.987	57.02	12.09	1.58	28.59	42.10	46.00	-3.90	QP
2 3 4 5 6	365.539	43.28	14.48	2.00	28.63	31.13	46.00	-14.87	QP
6	576.644	41.54	18.03	2.58	29.01	33.14	46.00	-12.86	QP





Above 1GHz

Horizontal:



Site : 3m chamber

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

: Smartphone : TM54SM EUT Model Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora

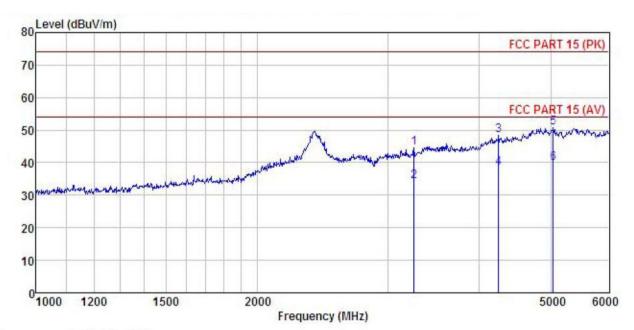
REMARK

	Pand	Au+	Cabla	Dusses		Timit	0		
2								2.0	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark	
MHz	dBu∜	dB/π	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	dB		
2756.107	48.53	28.31	7.39	40.53	43.70	74.00	-30.30	Peak	
2756.107	38.74	28.31	7.39	40.53	33.91	54.00	-20.09	Average	
3605.119	49.82	29.16	8.97	40.33	47.62	74.00	-26.38	Peak	
3605.119	39.50	29.16	8.97	40.33	37.30	54.00	-16.70	Average	
4808.328	49.66	31.53	10.57	40.24	51.52	74.00	-22.48	Peak	
4808.328	39.88	31.53	10.57	40.24	41.74	54.00	-12.26	Average	
	MHz 2756.107 2756.107 3605.119 3605.119 4808.328	Freq Level MHz dBuV 2756.107 48.53 2756.107 38.74 3605.119 49.82 3605.119 39.50 4808.328 49.66	Freq Level Factor MHz dBuV dB/m 2756.107 48.53 28.31 2756.107 38.74 28.31 3605.119 49.82 29.16 3605.119 39.50 29.16 4808.328 49.66 31.53	Freq Level Factor Loss MHz dBuV dB/m dB 2756.107 48.53 28.31 7.39 2756.107 38.74 28.31 7.39 3605.119 49.82 29.16 8.97 3605.119 39.50 29.16 8.97 4808.328 49.66 31.53 10.57	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 2756.107 48.53 28.31 7.39 40.53 2756.107 38.74 28.31 7.39 40.53 3605.119 49.82 29.16 8.97 40.33 3605.119 39.50 29.16 8.97 40.33 4808.328 49.66 31.53 10.57 40.24	MHz dBuV dB/m dB dB dBuV/m 2756.107 48.53 28.31 7.39 40.53 43.70 2756.107 38.74 28.31 7.39 40.53 33.91 3605.119 49.82 29.16 8.97 40.33 47.62 3605.119 39.50 29.16 8.97 40.33 37.30 4808.328 49.66 31.53 10.57 40.24 51.52	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 2756.107 48.53 28.31 7.39 40.53 43.70 74.00 2756.107 38.74 28.31 7.39 40.53 33.91 54.00 3605.119 49.82 29.16 8.97 40.33 47.62 74.00 3605.119 39.50 29.16 8.97 40.33 37.30 54.00 4808.328 49.66 31.53 10.57 40.24 51.52 74.00	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 2756.107 48.53 28.31 7.39 40.53 43.70 74.00 -30.30 2756.107 38.74 28.31 7.39 40.53 33.91 54.00 -20.09 3605.119 49.82 29.16 8.97 40.33 47.62 74.00 -26.38 3605.119 39.50 29.16 8.97 40.33 37.30 54.00 -16.70 4808.328 49.66 31.53 10.57 40.24 51.52 74.00 -22.48	Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 2756.107 48.53 28.31 7.39 40.53 43.70 74.00 -30.30 Peak 2756.107 38.74 28.31 7.39 40.53 33.91 54.00 -20.09 Average 3605.119 49.82 29.16 8.97 40.33 47.62 74.00 -26.38 Peak 3605.119 39.50 29.16 8.97 40.33 37.30 54.00 -16.70 Average 4808.328 49.66 31.53 10.57 40.24 51.52 74.00 -22.48 Peak





Vertical:



Site

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

: Smartphone

Model : TM54SM

Test mode : PC Mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Zora

REMARK :

LMAR	h :								
	Freq		Antenna Factor				Limit Line	Over Limit	
	MHz	dBu₹	$\overline{dB}/\overline{m}$	dB	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
1	3258.176	47.86	28.48	8.34	40.09	44.59	74.00	-29.41	Peak
2	3258.176	37.48	28.48	8.34	40.09	34.21	54.00	-19.79	Average
3	4245.295	49.10	30.32	9.92	40.91	48.43	74.00	-25.57	Peak
4	4245.295	38.96	30.32	9.92	40.91	38.29	54.00	-15.71	Average
5	5038.212	47.96	31.90	10.82	40.01	50.67	74.00	-23.33	Peak
6	5038.212	37.25	31.90	10.82	40.01	39.96	54.00	-14.04	Average