

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE180414902

FCC REPORT (Bluetooth)

Applicant:	HUNG WAI HOLDINGS LIMITED			
Address of Applicant:	Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong			
Equipment Under Test (E	EUT)			
Product Name:	27" LCD non-touch screen android quad core player			
Model No.:	DT270-AS4G1-1080-SL			
FCC ID:	2AB6Z-DT270-AS4G1			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Date of sample receipt:	27 Apr., 2018			
Date of Test:	28 Apr., to 22 May, 2018			
Date of report issued:	23 May, 2018			
Test Result:	PASS *			

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

Authorized Signature:



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.



2 Version

Version No.	Date	Description
00	23 May, 2018	Android player Main board with wireless module (FCC ID: 2AB6Z-A18RK31) and same antenna were used by the device, only AC Power Line Conducted Emission and Radiated emission were re-tested.

Tested by:

avery Upen Test Engineer

Date:

Date:

23 May, 2018

23 May, 2018

Reviewed by:

man.

Project Engineer

<u>CCIS</u>

3 Contents

		Page
1	COVER PAGE	1
2	VERSION	2
3		-
4	TEST SUMMARY	4
5	GENERAL INFORMATION	5
	 5.1 CLIENT INFORMATION	
6	TEST RESULTS AND MEASUREMENT DATA	8
	6.1 ANTENNA REQUIREMENT	
7		
8	EUT CONSTRUCTIONAL DETAILS	



4 Test Summary

Test Items	Section in CFR 47	Result
Antenna Requirement	15.203 & 15.247 (c)	Pass*
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass*
20dB Occupied Bandwidth	15.247 (a)(1)	Pass*
Carrier Frequencies Separation	15.247 (a)(1)	Pass*
Hopping Channel Number	15.247 (a)(1)	Pass*
Dwell Time	15.247 (a)(1)	Pass*
Spurious Emission	15.205 & 15.209	Pass
Band Edge	15.247(d)	Pass

Pass*: The test data refer to FCC ID: 2AB6Z-A18RK31..



5 General Information

5.1 Client Information

Applicant:	HUNG WAI HOLDINGS LIMITED
Address:	Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong
Manufacturer/ Factory:	HUNG WAI ELECTRONICS (HUIZHOU) LTD
Address:	3rd floor, NO. 1, Minfeng Road, Huinan High and New Technology Industry Park, Huiao Avenue, Huizhou City, Guangdong

5.2 General Description of E.U.T.

Product Name:	27" LCD non-touch screen android quad core player
Model No.:	DT270-AS4G1-1080-SL
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	External Antenna
Antenna gain:	2 dBi
Power supply:	DC 12V
AC adapter:	Model No.:PS65B120Y5000S Input: AC100-240V, 50/60Hz, 1.5A Output: DC 12V,5000mA

Operation	Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		
Remark: Cl	Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.						





5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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 with a fresh battery, 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

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

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

• FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

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.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.7 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 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A



6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement: FCC Part 15 C Section 15.203 & 247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is an External antenna which permanently attached, and the best case gain of the antenna is 2 dBi.



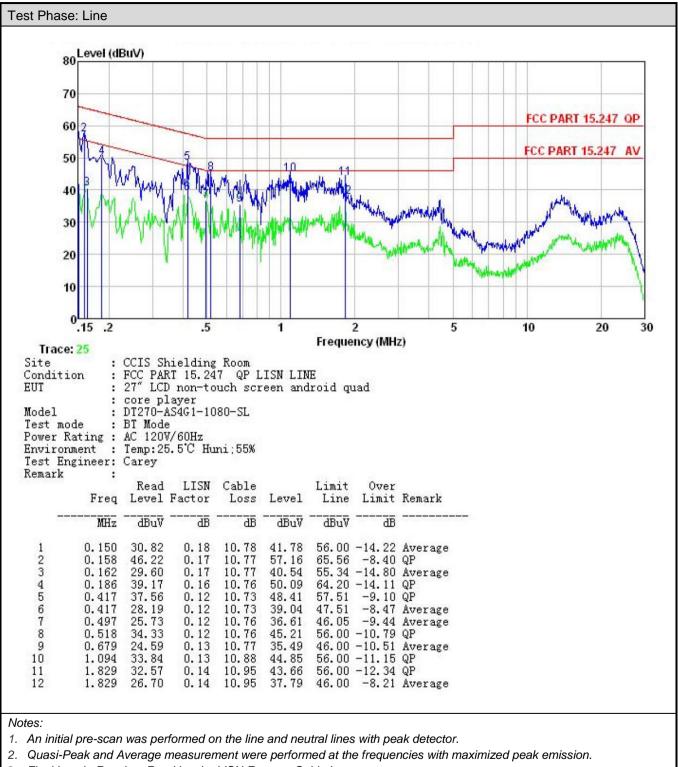


6.2 Conducted Emissions

0.2 Conducted Emissio	/115				
Test Requirement:	FCC Part 15 C Section 1	FCC Part 15 C Section 15.207			
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 k	Hz, Sweep time=auto			
Limit:	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test setup:	Reference	e Plane	_		
	40cm 40cm Equipment E.U.7 Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ner Test table height=0.8m	EMI Receiver	ower		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides 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 50ohm termination. (Please refer to the block diagram of the test setup and 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 changed according to ANSI C63.4: 2014 on conducted measurement. 				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Hopping mode				
Test results:	Pass				

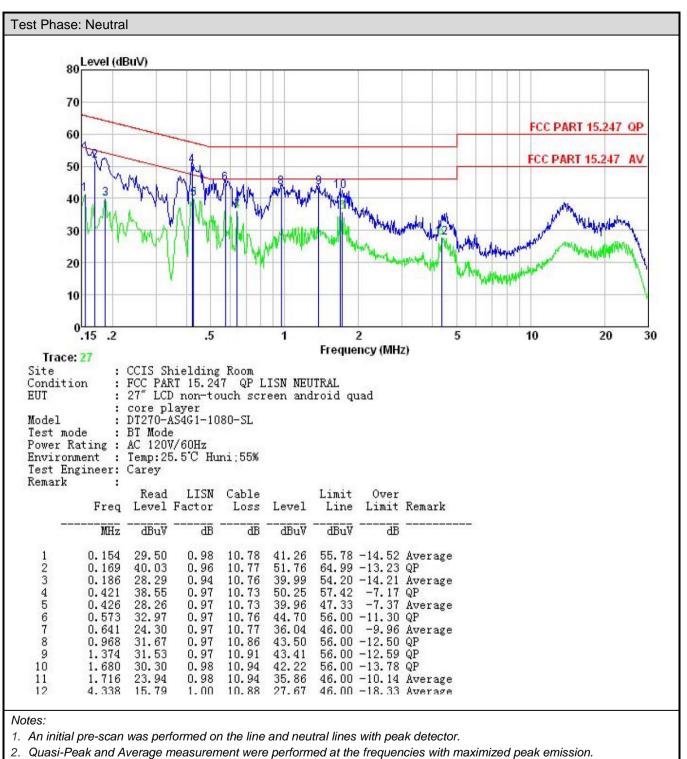


Measurement Data:



3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)					
Test Method:	ANSI C63.10:2013 and DA00-705					
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)					
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Non-hopping mode					
Test results:	Refer to FCC ID: 2AB6Z-A18RK31					



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 and DA00-705					
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak					
Limit:	NA					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Non-hopping mode					
Test results:	Refer to FCC ID: 2AB6Z-A18RK31					



6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)						
Test Method:	ANSI C63.10:2013 and DA00-705						
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak						
Limit:	 a) 0.025MHz or the 20dB bandwidth (whichever is greater) b) 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater) 						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.8 for details						
Test mode:	Hopping mode						
Test results:	Refer to FCC ID: 2AB6Z-A18RK31						



6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 and DA00-705					
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak					
Limit:	15 channels					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Hopping mode					
Test results:	Refer to FCC ID: 2AB6Z-A18RK31					



6.7 Dwell Time

Test Requirement: Test Method:	FCC Part 15 C Section 15.247 (a)(1) ANSI C63.10:2013 and KDB DA00-705				
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak				
Limit:	0.4 Second				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Hopping mode				
Test results:	Refer to FCC ID: 2AB6Z-A18RK31				



6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1) requirement:
25 kHz or the 20 dB bandwid	shall have hopping channel carrier frequencies separated by a minimum of th of the hopping channel, whichever is greater.
channel carrier frequencies t hopping channel, whichever than 125 mW. The system sl from a Pseudorandom order average by each transmitter.	ping systems operating in the 2400-2483.5 MHz band may have hopping hat are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the is greater, provided the systems operate with an output power no greater hall hop to channel frequencies that are selected at the system hopping rate ed list of hopping frequencies. Each frequency must be used equally on the . The system receivers shall have input bandwidths that match the hopping corresponding transmitters and shall shift frequencies in synchronization
EUT Pseudorandom Frequ	ency Hopping Sequence
outputs are added in a modu	sequence: 2 ⁹ -1 = 511 bits
Linear Feedback Sł	nift Register for Generation of the PRBS sequence
-	m Frequency Hopping Sequence as follow:
0 2 4 6	62 64 78 1 73 75 77
The system receivers have in	on the average by each transmitter. nput bandwidths that match the hopping channel bandwidths of their nd shift frequencies in synchronization with the transmitted signals.



6.9 Band Edge

6.9.1 Conducted Emission Method

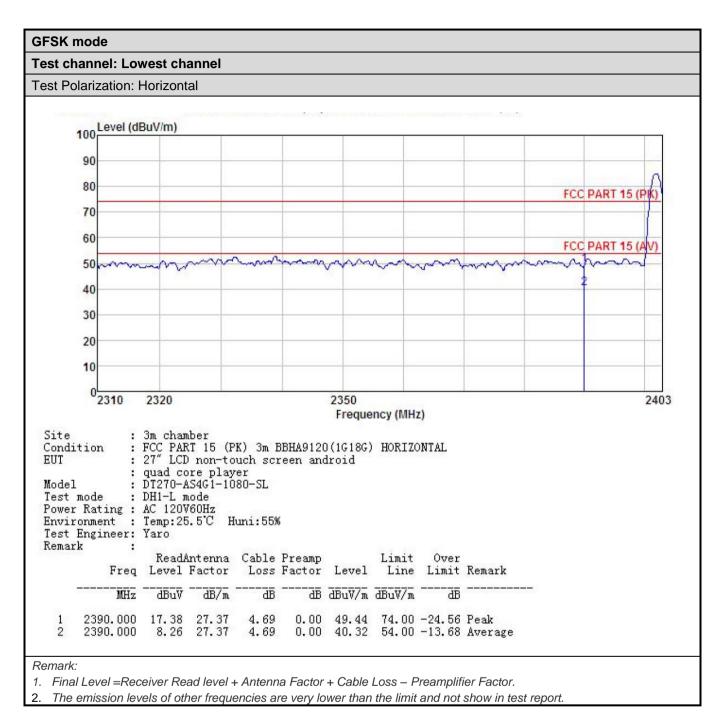
FCC Part 15 C Section 15.247 (d)				
ANSI C63.10:2013 and DA00-705				
RBW=100 kHz, VBW=300 kHz, Detector=Peak				
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Refer to section 5.8 for details				
Non-hopping mode and hopping mode				
Refer to FCC ID: 2AB6Z-A18RK31				



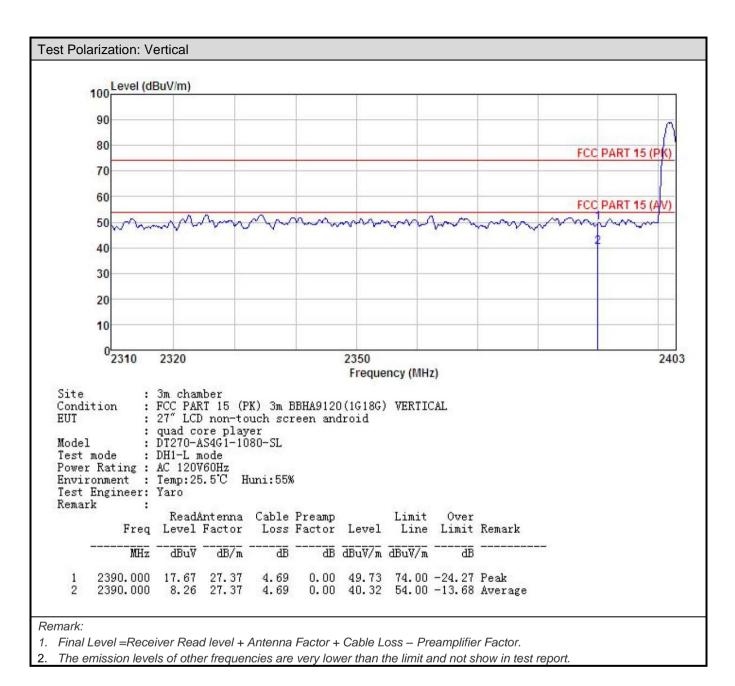
6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	2.3GHz to 2.5GHz						
Test Distance:	3m						
Receiver setup:	Frequency Detector RBW VBW Re					Remark	
	Above 1GHz	Peak		1MHz	31	MHz	Peak Value
		RMS		1MHz	31	MHz	Average Value
Limit:	Frequency Limit (dBuV/m @3m) Remark						Remark
	Above 1G			54.00		Average Value	
	7.5676 10			74.00	00		Peak Value
	Horn Antenna Tower Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver Prane Controller						
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5meters above the ground at a 3 meter 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. 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 						
Test Instruments:	Refer to section			d and then rep			
Test mode:	Non-hopping mode						
Test results:	Passed						

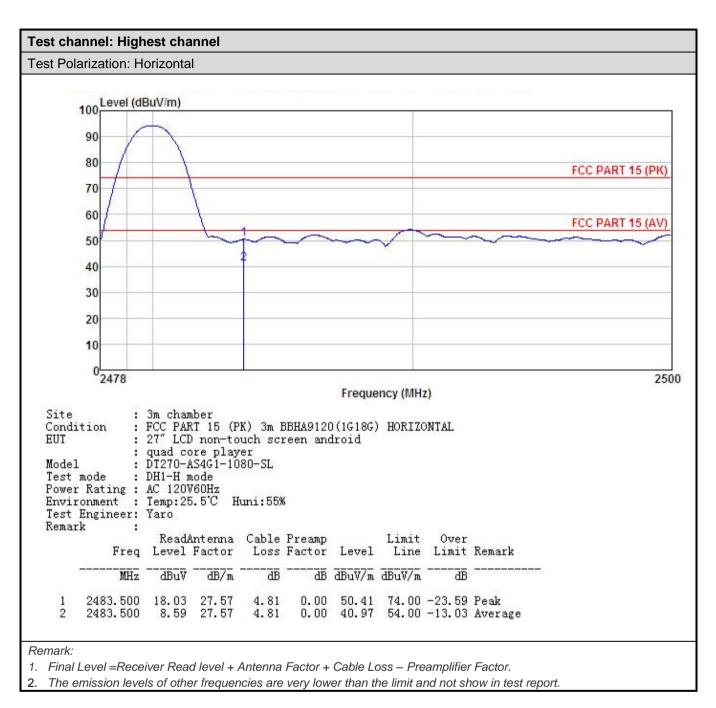




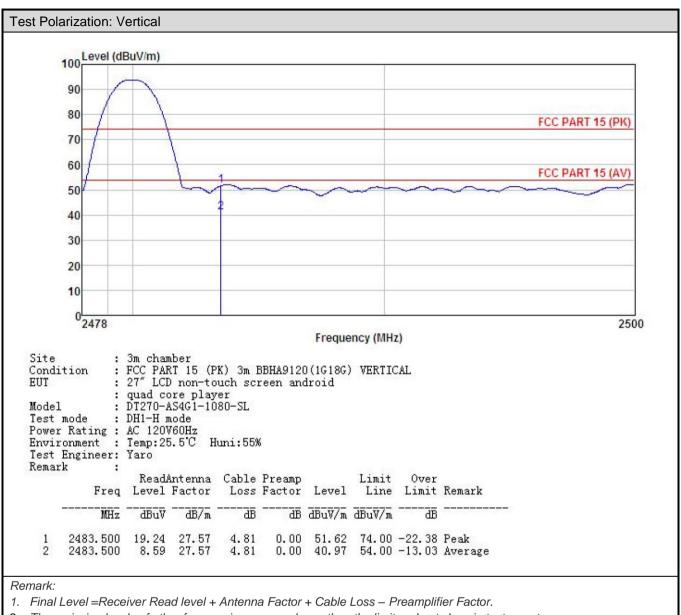






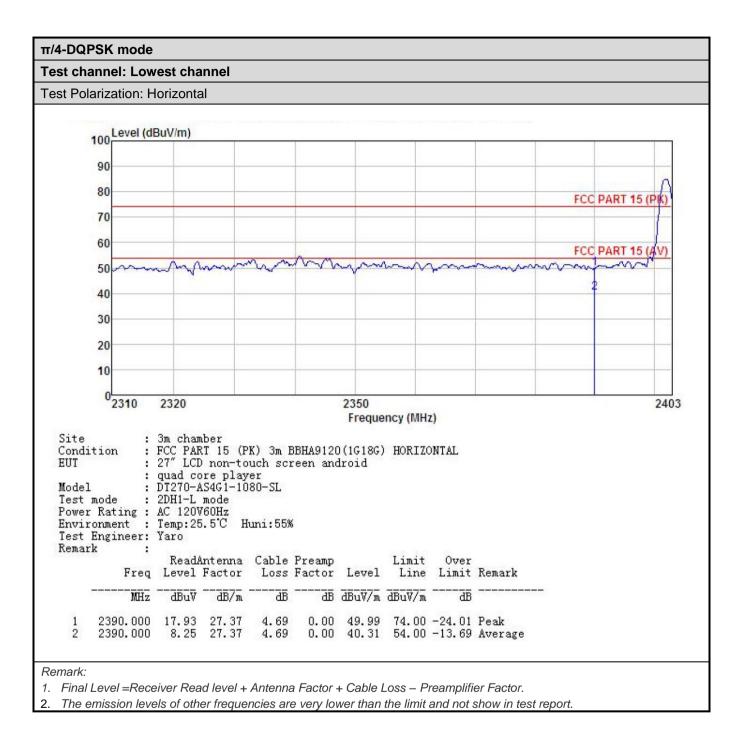




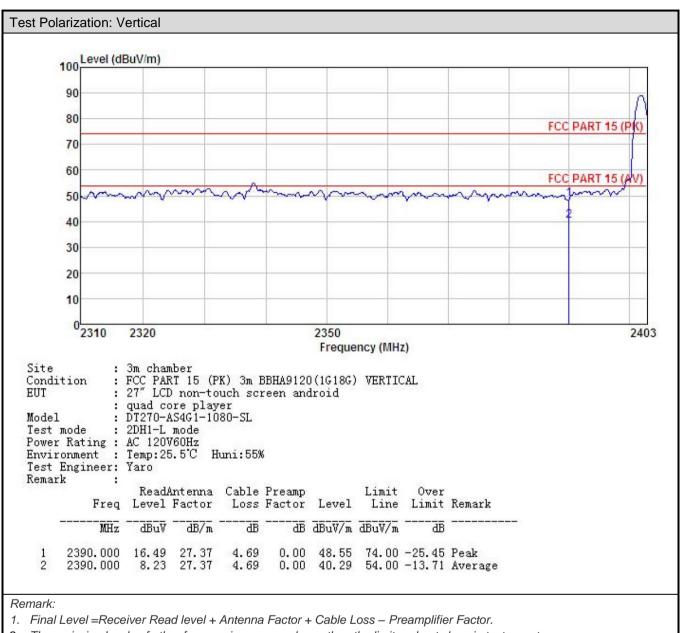


2. The emission levels of other frequencies are very lower than the limit and not show in test report.



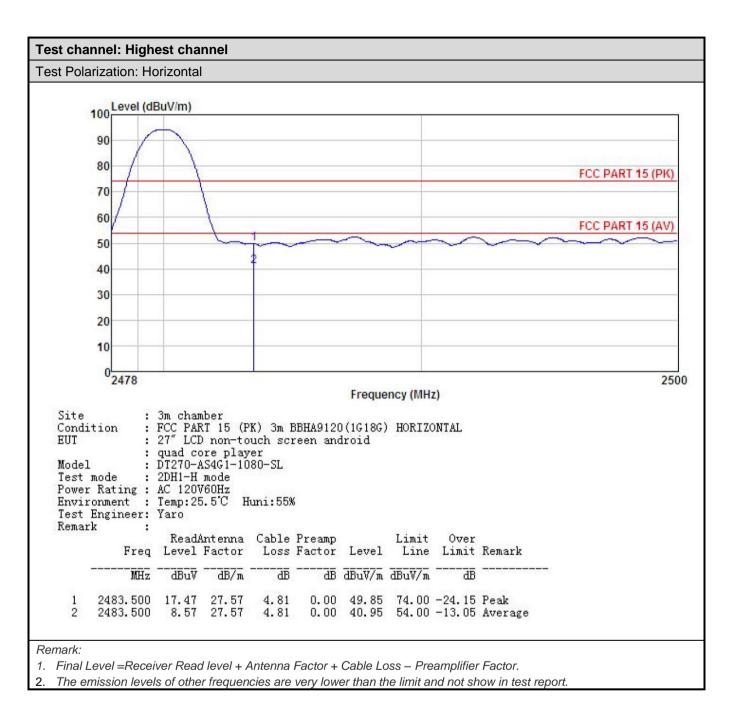




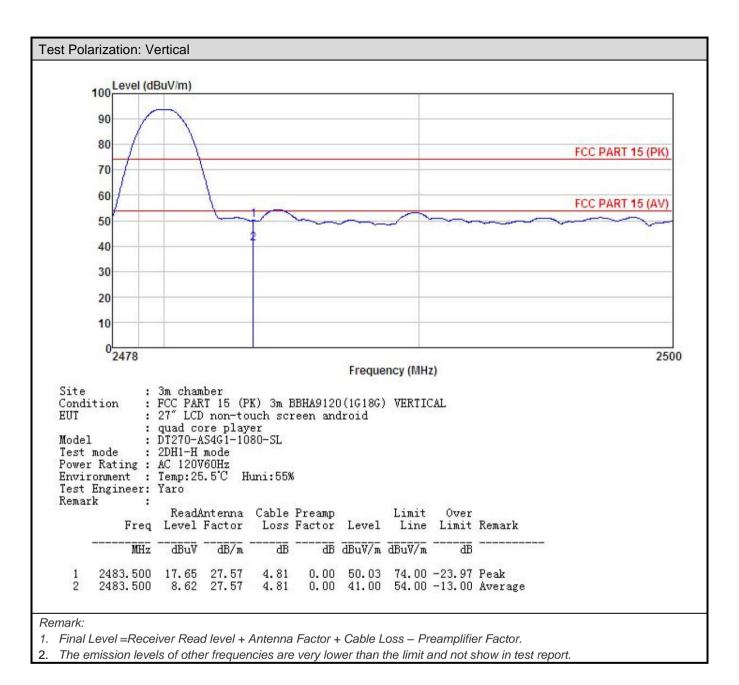


2. The emission levels of other frequencies are very lower than the limit and not show in test report.

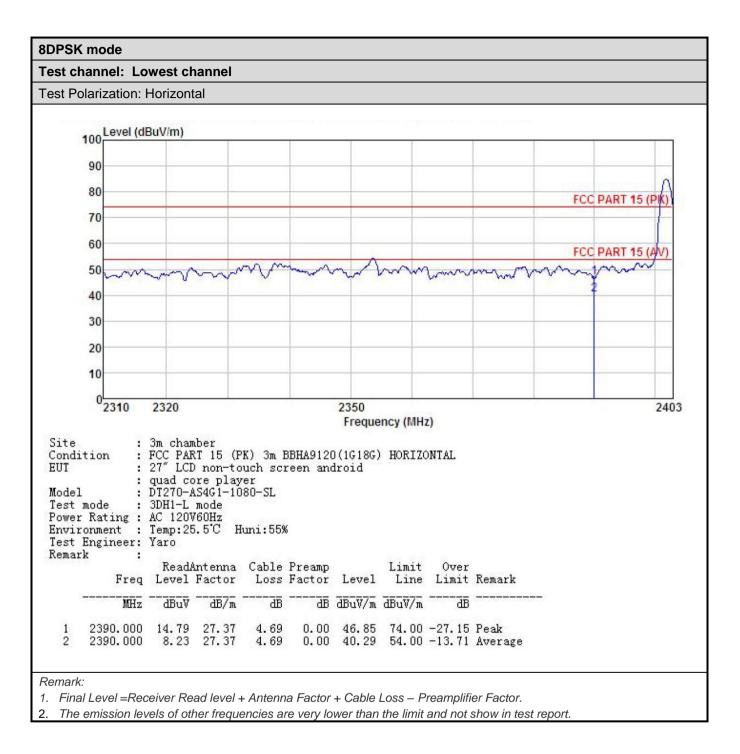




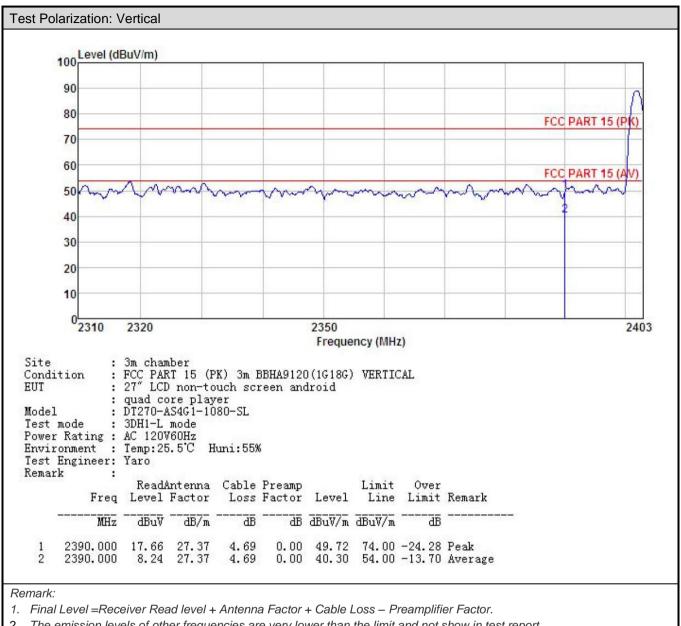






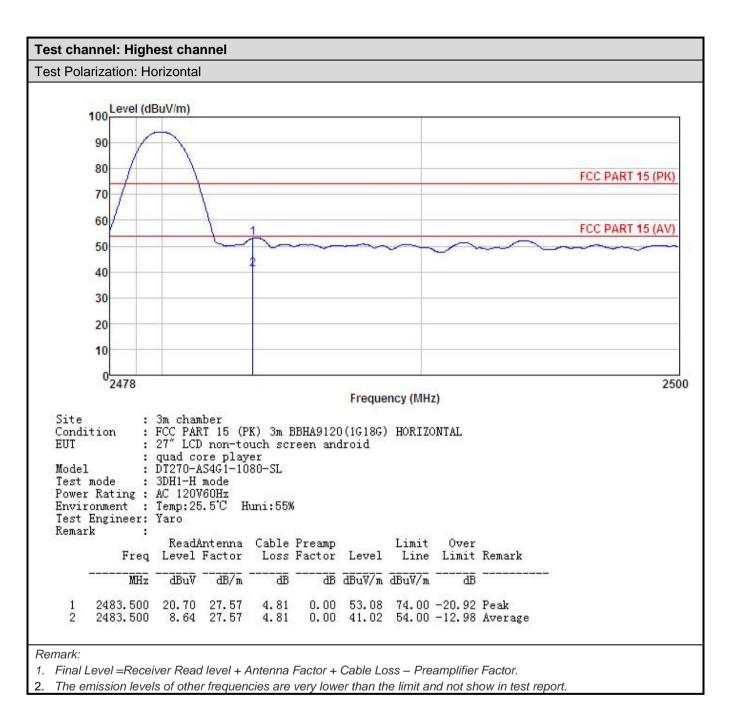






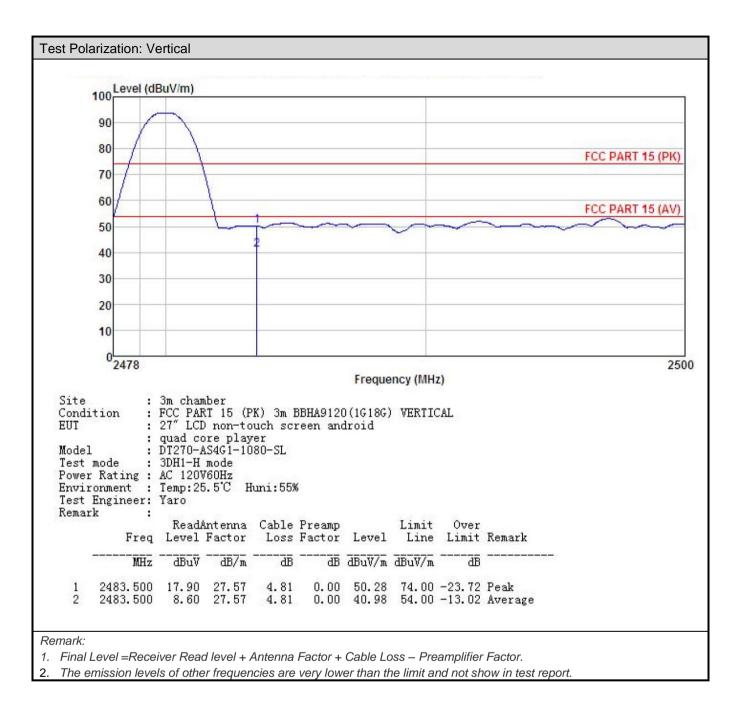
The emission levels of other frequencies are very lower than the limit and not show in test report. 2













6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and DA00-705						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.8 for details						
Test mode:	Non-hopping mode						
Test results:	Refer to FCC ID: 2AB6Z-A18RK31						



6.10.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.	.209					
Test Method:	ANSI C63.10: 2	ANSI C63.10: 2013						
Test Frequency Range:	9 kHz to 25 GHz							
Test Distance:	3m							
Receiver setup:	Frequency Detector RBW VBW Remark					Remark		
	30MHz-1GHz	Quasi-pe	ak	120kHz	300kl	Ηz	Quasi-peak Value	
		Peak		1MHz	3MH	z	Peak Value	
	Above 1GHz	RMS		1MHz	3MH	z	Average Value	
Limit:	Frequenc	;y	Limit	t (dBuV/m @	⊉3m)		Remark	
	30MHz-88N	/IHz		40.0			Quasi-peak Value	
	88MHz-216	MHz		43.5			Quasi-peak Value	
	216MHz-960	MHz		46.0			Quasi-peak Value	
	960MHz-10	GHz		54.0			Quasi-peak Value	
	Above 1G			54.0			Average Value	
	Above IGI			74.0			Peak Value	
	EUT 4m Search Antenna HT 4m HT 2010 Ground Plane Above 1GHz						Antenna Test ceiver	
		AE EUT (Turntable)						
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table							

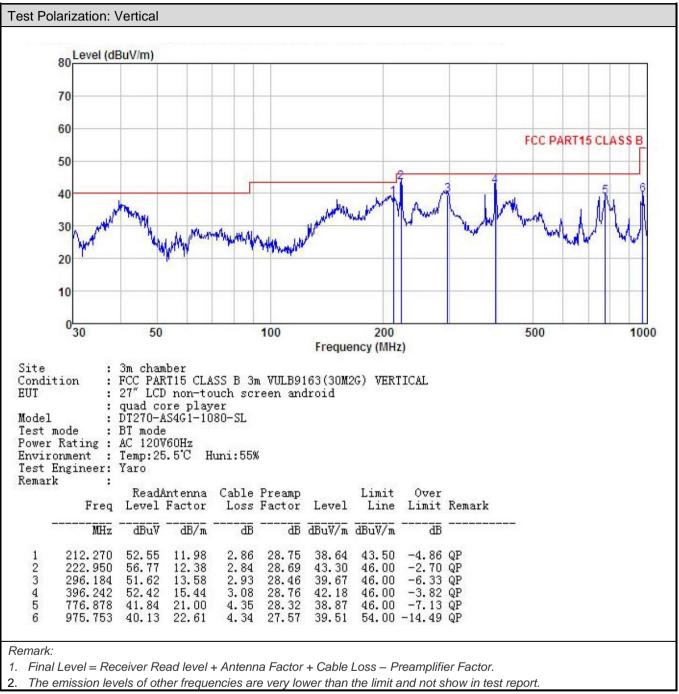


	was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	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 Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
Remark.	 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

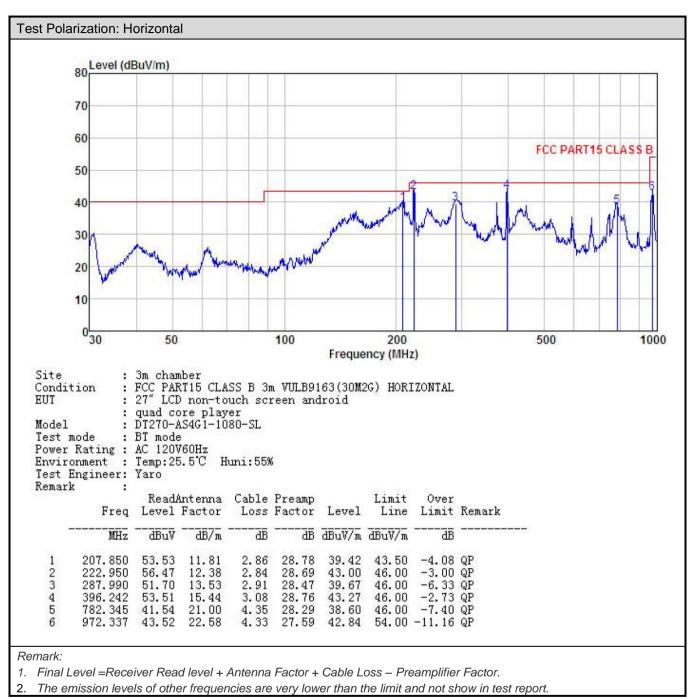


Measurement Data (worst case):

Below 1GHz:







Above 1GHz:

			Test ch	annel: Lowe	est channel					
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	47.32	30.85	6.80	41.81	43.16	74.00	-30.84	Vertical		
4804.00	47.58	30.85	6.80	41.81	43.42	74.00	-30.58	Horizontal		
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	37.86	30.85	6.80	41.81	33.70	54	-20.30	Vertical		
4804.00	36.54	30.85	6.80	41.81	32.38	54	-21.62	Horizontal		
				annel: Midd tector: Peak						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	46.22	31.20	6.86	41.84	42.44	74.00	-31.56	Vertical		
4884.00	46.83	31.20	6.86	41.84	43.05	74.00	-30.95	Horizontal		
			Dete	ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	36.24	31.20	6.86	41.84	32.46	54.00	-21.54	Vertical		
4884.00	36.63	31.20	6.86	41.84	32.85	54.00	-21.15	Horizontal		
				annel: Highe tector: Peak						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	47.24	31.63	6.91	41.87	43.91	74.00	-30.09	Vertical		
4960.00	47.62	31.63	6.91	41.87	44.29	74.00	-29.71	Horizontal		
				ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	37.66	31.63	6.91	41.87	34.33	54.00	-19.67	Vertical		
4960.00	37.49	31.63	6.91	41.87	34.16	54.00	-19.84	Horizontal		
					Loss – Pream the limit and r	plifier Factor. not show in tes	t report.			