

FCC REPORT

Applicant:	HMD global Oy			
Address of Applicant:	Bertel Jungin aukio 9, 02600 Espoo, Finland			
Equipment Under Test (EUT)				
Product Name:	Smart Phone			
Model No.:	TA-1367			
Trade mark:	NOKIA			
FCC ID:	2AJOTTA-1367			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.225			
Date of sample receipt:	19 Aug., 2021			
Date of Test:	20 Aug., to 28 Aug., 2021			
Date of report issue:	16 Sep., 2021			
Test Result:	PASS*			

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

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 JYT 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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Version 2

Version No.	Date	Description
00	16 Sep., 2021	Original

According to the declaration from the applicant, the models: TA-1370 and TA-1367 are identical in specifications, only different SIM adapter, TA-1370 supports daul sim mode, TA-1367 supports only single sim mode.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number: JYTSZB-R12-2101744

Tested by: Mike.OU Test Engineer Reviewed by: Winner Thang

Date: ____ 16 Sep., 2021

Date: 16 Sep., 2021

Project Engineer

Project No.: JYTSZE2108101



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4 Test Summary

Test Item	Section in CFR 47	Result			
Antenna requirement	15.203	Pass			
Field strength of the fundamental signal	15.225 (a)	Pass			
Spurious emissions	15.225(d)& 15.209	Pass			
20dB Bandwidth	15.215(c) Pa				
Frequency tolerance	15.225 (e)	Pass			
Conducted Emission	15.207	Pass			
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The pable inportion loss used by "PE Output Power" and other conduction measurement items is 0.5dP (provided by					

2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:	ANSI C63.4-2014
rest wethou.	ANSI C63.10-2013



5 General Information

5.1 Client Information

Applicant:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

5.2 General Description of E.U.T.

Product Name:	Smart Phone		
Model No.:	TA-1367		
Operation Frequency:	13.56MHz		
Channel numbers:	1		
Modulation type:	ASK		
Antenna Type:	Induction Coil Antenna		
Power supply:	Rechargeable Lithium ion Polymer Battery DC3.85V, 4.85Ah		
AC adapter:	Adapter 1:		
	Model: TN-050200U3, TN-050200E3, TN-050200C3A		
	Input: AC100-240V, 50/60Hz, 0.35A		
	Output: DC 5.0V, 2.0A 10.0W		
	Note: Only the pins are different between different models		
	Adapter 2:		
	Model: TN-050200U3, TN-050200A3, TN-050200C3A		
	Input: AC100-240V, 50/60Hz, 0.35A		
	Output: DC 5.0V, 2.0A 10.0W		
	Note: Only the pins are different between different models		
	Adapter 3:		
	Model: AD-010A, AD-010X		
	Input: AC100-240V, 50/60Hz, 0.35A		
	Output: DC 5.0V, 2.0A 10.0W		
	Note: Only the pins are different between different models		
Test Sample Condition:	The test samples were provided in good working order with no visible defects.		



5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmitting mode with modulation						
Pre-Test Mode:							
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:							
Axis	Axis X Y Z						
Field Strength(dBuV/m) 54.32 55.43 53.64							
Final Test Mode:							
According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo).							

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
N/A	N/A	N/A	N/A	N/A

5.5 Measurement Uncertainty

Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
±3.11 dB		
±2.26 dB		
±3.13 dB		
±4.45 dB		
±5.34 dB		

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.4-2014. All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

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

ISED – CAB identifier.: CN0021

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

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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>

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com



5.9 Test Instrumentslist

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022	
Pre-amplifier	HP	8447D	WXG001-2	03-07-2021	03-06-2022	
Pre-amplifier	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022	
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022	
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N/A		
Test Software	Tonscend	TS+	Version: 3.0.0.1			

Conducted Emission & Conducted Method:						
Test Equipment	Manufacturer	Model No.	Management	Cal. Date	Cal. Due date	
		model ite.	Number	(mm-dd-yy)	(mm-dd-yy)	
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022	
EMI Test Receiver	Rohde & Schwarz	ESCI	WXJ003	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ENV432	WXJ005-2	04-06-2021	04-05-2022	
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-17-2020	06-16-2022	
RF Switch	Top Precision	RSU0301	WXG003	N/A	N/A	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Antenna requirement

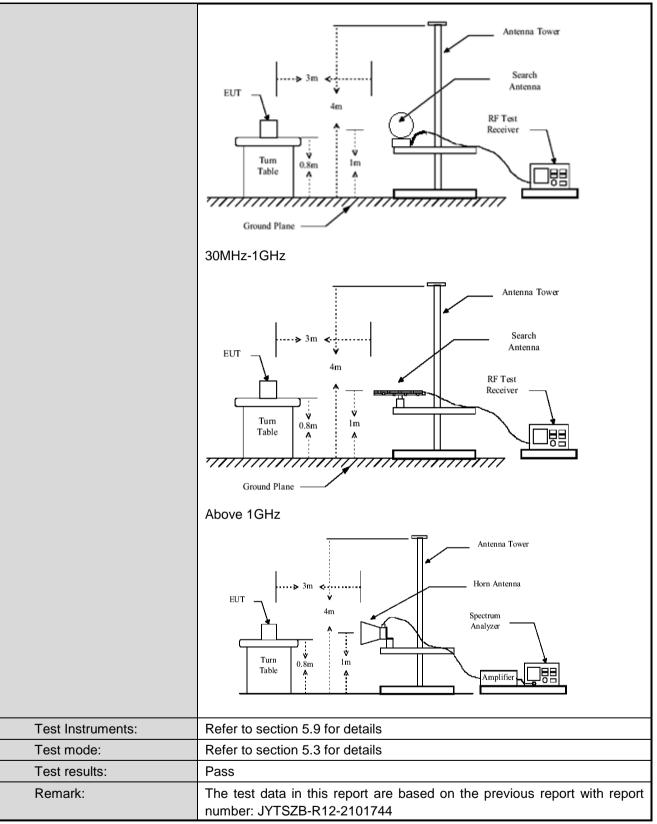
Standard requirement:	FCC Part15 C Section 15.203
responsible party shall be us antenna that uses a unique c	be designed to ensure that no antenna other than that furnished by the ed with the device. The use of a permanently attached antenna or of an oupling to the intentional radiator, the manufacturer may design the unit so e replaced by the user, but the use of a standard antenna jack or electrical
E.U.T Antenna:	
The EUT make use of an Indu	uction coil antenna.



6.2 Radiated Emission

TestFrequencyRange: 9 kHz to 1000MHz Test site: Measurement Distance: 3m(Semi-Anechoic Chamber) Receiver setup: Frequency Detector Remark 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 30MHz-104L Quasi-peak 30KHz Quasi-peak Value 30KHz Quasi-peak Value 30MHz1-104L Quasi-peak 120KHz 30KHz Quasi-peak Value 30KHz Quasi-peak Value 30MHz1-104L Quasi-peak 120KHz 30KHz Quasi-peak Value 30KHz Quasi-peak Value 30MHz1-104L Quasi-peak Value 126.53MHz.2 126.44 Quasi-peak Value 30KHz Quasi-peak Value 13.6507MHz1-104Hz 134.00MHz 13.553MHz 334 90.5 33.100Hz 13.10MHz 14.34.00MHz 106 80.5 13.110MHz14.3.10MHz 4 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance extrapolation factor (i.e., 40 00Kdecade) in conjunction with the slain-range distance defined in §15.3(thi) of this part. (Spurious Emissions) 0.009-0.490 - 2400Ff(kHz) 300 30 3	Test Requirement:	FCC Part15 C S	Section 15	5.225	(a) and 15.209			
Receiver setup: Frequency Detector RBW VBW Remark 9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 150kHz-160kHz Quasi-peak 120kHz Quasi-peak Value Quasi-peak Value 150kHz-16Hz Quasi-peak 120kHz Quasi-peak Value Quasi-peak Value Limit: Frequency Limit (uV/m @ 30m) Limit (dBV/m @ 30m) Limit (dBV/m @ 30m) Limit (dBV/m @ 30m) 13.150MHz-13.567MHz 334 90.5 13.567MHz-13.710MHz 334 90.5 13.110MHz-13.570HHz 13.110MHz-13.570HHz 106 80.5 Remark Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolation factor (i.e., 40 @B/decade) in conjunction with the slan-range distance defined in §15.3(ht) of this part. Limit: Frequency (MHz) Limit (uV/m @ 3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000F(kHz) 30 30 1.705-30 30	TestFrequencyRange:	9 kHz to 1000M	Hz					
9kHz-150kHz Quasi-peak 200Hz 600Hz Quasi-peak Value 30MHz Quasi-peak 9kHz 300Hz Quasi-peak Value Quasi-peak Value 30MHz-10Hz Quasi-peak 120kHz 300Hz Quasi-peak Value Above 10Hz Peak 10MHz 300Hz Quasi-peak Value (Field strength of the fundamental signal) 13.553MHz 43.5677MHz 15848 1124.0 13.553MHz-13.5677MHz 334 90.5 13.110MHz-13.6770MHz 13.110MHz-13.67770MHz 13.110MHz-13.410MHz & 106 80.5 13.710MHz 13.55770MHz 13.6770MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance defined in §15.3/th) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.4200/F(kHz) 30 30 0.400-0.705 2400/F(kHz) 30 30 1.705-30 30 3 30 <td< td=""><td>Test site:</td><td>Measurement D</td><td>istance: 3</td><td>3m(S</td><td>emi-Anechoic</td><td>Charr</td><td>nber)</td><td></td></td<>	Test site:	Measurement D	istance: 3	3m(S	emi-Anechoic	Charr	nber)	
IsokHz-30MHz Quasi-peak 9kHz 30kHz Quasi-peak Value 200MHz-1GHz Quasi-peak 120kHz 300Hz Quasi-peak Value Above 1GHz Peak 111 30Hz Quasi-peak Value (Field strength of the fundamental signal) 13.653MHz-13.567MHz 15848 124.0 13.410MHz-13.553MHz & 13.410MHz-13.710MHz 334 90.5 13.10MHz-13.410MHz & 106 80.5 13.710MHz 13.657MHz-13.710MHz 106 80.5 13.10MHz-13.410MHz & 106 80.5 13.710MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.710MHz 13.710MHz 13.677MHz 13.710MHz 13.677MHz 13.710MHz 13.677MHz 13.677MHz 13.677MHz 13.677MHz 13.710MHz 13.677MHz 13.710MHz 13.677MHz 13.677MHz <td>Receiver setup:</td> <td>Frequency</td> <td>Detect</td> <td>or</td> <td>RBW</td> <td>V</td> <td>BW</td> <td>Remark</td>	Receiver setup:	Frequency	Detect	or	RBW	V	BW	Remark
30MHz-1GHz Quasi-peak 120kHz 300KHz Quasi-peak Value Above 1GHz Peak 11MHz Multz Peak Value Peak Value Limit Frequency Limit (UV/m @ 30m) Limit (W/m @ 30m)		9kHz-150kHz	Quasi-p	eak	200Hz	60	0Hz	Quasi-peak Value
Above 1GHz Peak IMHz 3MHz Peak Value Limit Frequency Limit (V/m @30m) Limit (dBuV/m @3m) 13.567MHz (Field strength of the fundamental signal) 13.557MHz 1584 124.0 13.410MHz-13.553MHz & 106 80.5 13.110MHz-13.310MHz 106 80.5 80.5 13.110MHz-14.010MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(hh) of this part. Limit: Frequency (MHz) Limit (u//m @3m) Distance (m) (Spurious Emissions) 0.490-1.705 24000/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 1.705-30 30 30 30 3.216-960 200 3 Above 1GHz 500 3 2.10 The EUT was placed on the top of a crating table 0.8 meters above the ground ta 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the maximum value of the field strength. Both horizontal and vertical polarizations of the anterna tabove the ground to determine the op		150kHz-30MHz	Quasi-p	eak	9kHz	30)kHz	Quasi-peak Value
Limit: Frequency Limit (uV/m @30m) Limit (dBuV/m @3m) 13.553MHz-13.557MHz 15848 124.0 13.553MHz-13.567MHz 1384 124.0 13.557MHz-13.710MHz 334 90.5 13.100Hrz-13.410MHz & 106 80.5 13.110Hrz-13.410MHz & 106 80.5 13.710Hrz-13.410MHz & 106 80.5 13.710Hrz-13.410MHz & 106 80.5 13.710Hrz-14.410MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(hh) of this part. Limit Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 24000F(kHz) 30 0.490-1.705 24000F(kHz) 30 30 30-88 100 3 32 16-960 200 3 30 30-88 1000 3 32 </td <td></td> <td>30MHz-1GHz</td> <td>Quasi-p</td> <td>eak</td> <td>120kHz</td> <td>30</td> <td>0KHz</td> <td>Quasi-peak Value</td>		30MHz-1GHz	Quasi-p	eak	120kHz	30	0KHz	Quasi-peak Value
(Field strength of the fundamental signal) 13.553MH2-13.567MHz 15848 124.0 13.410MHz-13.553MHz & 334 90.5 13.100Hz-13.710MHz 334 90.5 13.110Hz-13.710MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(th) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) 0.090-0.490 24000F(kHz) 300 30 0.490-1.705 24000F(kHz) 30 30 17.05-30 30 30 30 30.488 100 3 32 216-960 200 3 30 30.488 100 3 32 216-960 200 3 30 30.488 104 106 30 30 30.488 100 3 34 30 30 30.40 30.488 100 3 34		Above 1GHz	Peak	(1MHz	31	MHz	Peak Value
fundamental signal) 13.410MHz-13.553MHz & 334 90.5 13.567MHz-13.710MHz 334 90.5 13.700MHz-14.010MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance defined in §15.3(ht) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.009-0.490 2400/F(kHz) 300 30 30 1.705-30 30 30 30 30 216-960 200 3 216-960 200 3 216-960 200 3 anterna, whichwas mounted on the top of a variable-height anterna above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to	Limit:	Frequency	/	Li	imit (uV/m @30r	n)	Lim	iit (dBuV/m @3m)
13.567MHz-13.710MHz 334 90.5 13.110MHz-13.410MHz & 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in \$15.3(th) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.490-1.705 24000/F(kHz) 30 1.705-30 30 30 30 3.88-216 150 3 216-960 2000 3 3 216-960 3 Above 1GHz 500 3 3 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and then to tablefable was tuned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set	(Field strength of the	13.553MHz-13.5	67MHz		15848			124.0
13.110MHz-13.410MHz & 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in §15.3(hh) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 300 1.705-30 30 30 3.88-216 150 3 216-960 200 3 Above 1GHz 500 3 Bas-216 150 3 Bas-217 500 3 Contrast as meter semi-anechoic camber. The table was trotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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 vertic	fundamental signal)				334			90.5
13.710MHz-14.010MHz 106 80.5 Remark: Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in \$15.3(ht) of this part. Limit: Frequency (MHz) Limit (UV/m @3m) Distance (m) (Spurious Emissions) 0.0090-490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 30 1.705-30 30 30 30 30-88 100 3 3 216-960 200 3 3 Above 1GHz 500 3 3 Above 1GHz 500 3 3 A. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest tradiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. C. 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 meas			1					
Per FCC part 15.31, when performing measurements at a distance which is closer than specified, the field strength results shall be extrapolated to the specified distance by using the square of an inverse linear distance extrapolation factor (i.e., 40 dB/decade) in conjunction with the slant-range distance defined in \$15.3(h) of this part. Limit: Frequency (MHz) Limit (uV/m @3m) Distance (m) (Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.480-1.705 24000/F(kHz) 30 1.705-300 30 30 30-88 100 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 216-960 200 3 30 30-88 100 3 30 200/grees todetermine the position of the highest radiation. b. b The EUT was placed on the top of a variable-height antenna tower. c. c The antenna height is varied from one meter to four m					106			80.5
(Spurious Emissions) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 Above 1GHz 500 3 Above 1GHz 500 3 Constant 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was placed on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the grounds a 3 meter saway from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mod		than specified, the distance by using 40 dB/decade) in this part.	e field strei the square conjunctio	ngth r e of ai n with	esults shall be e n inverse linear o n the slant-range	xtrapo distan distai	blated to ce extra	o the specified apolation factor (i.e., ned in §15.3(hh) of
(openiods Emissions) 0.490-1.705 24000/F(kHz) 30 1.705-30 30 30 30 30-88 100 3 30 20-88 100 3 30 216-960 200 3 30 Above 1GHz 500 3 30 360 degrees todetermine the position of the highest radiation. 50 3 b. The EUT was placed on the top of a variable-height antenna tower. 6. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet.				L		1)		· · ·
1.705-30 30 30 30-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. 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 rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet.	(Spurious Emissions)				· · · · · · · · · · · · · · · · · · ·			
30-88 100 3 88-216 150 3 216-960 200 3 Above 1GHz 500 3 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi- peak or average method as specified andthen reported in a data sheet.			5		<i>, , , , , , , , , , , , , , , , ,</i>			
88-216 150 3 216-960 200 3 Above 1GHz 500 3 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. c. 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. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.								
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sheet.	Test Procedure:	 the grounda 360 degrees b. The EUT wa antenna, wh tower. c. The antenna ground to de horizontal a measureme d. For each su and thenthe and the rota find the max e. The test-reo SpecifiedBa f. If the emissi the limitspec of the EUT w have 10dB r 	t a 3 metu s todetern as set 3 m ichwas m a height is etermine f nd vertica nt. spected e antenna tabletable cimum rea eiver sys ndwidth v on level o cified, the wouldbe r margin wo	er se nine t neters nount s vari the m al pola emiss was e was e was ading tem v with N of the n tes report ould b	mi-anechoic ca the position of s away from the red on the top of ed from one m naximum value arizations of the sion, the EUT v tuned to heigh s turned from 0 was set to Peal Maximum Hold EUT in peak r ting could be s ted. Otherwise pere-tested one	ambe the hi e inte of a vante of the e ante vas all ts from degr k Dete mode toppe the e e by c	r. The t ighest r rference ariable o four r e field s enna ar rrangeo m 1 me ees to ect Fur e. was 10 ed and emission one usin	table was rotated radiation. ce-receiving -height antenna meters above the strength. Both re set to make the d to its worst case eter to 4 meters 360 degrees to notion and DdB lower than the peak values ns that did not ng peak, quasi-
	Test setup:							







Measurement Data:

Field Strength of fundamental signal:

Product Nar	ne:	Smart	Phone			Prod	luct Mode	el:	TA	-1370	
Test By:		Mike				Test	mode:		NF	C Tx mode)
Test Voltage	e:	AC 12	20V/60Hz			Envi	ronment:	:	Te	mp: 24 ℃	Huni: 57%
110 Level (dBuV/m)									
110											
91.7				_							-
-										15.225 PO	WER LIMIT
73.3											
						3					
55.0	_			-	2	-	4	_			
							Maria				
		1	Aun - A -	N	war -		- M	man an		5	
36.7 - Marina	man	m	Amark	Maran	www.		~	marco	men		mannew
36.7-1	mun		March	Marca NV	www.			maria	man	5	
	umaun		Mann	Maran	ww			maria	min		
36.7- ³	13.2		Mann	Marcal	13.5			mark	m	5	14.01
36.7-^^~	13.2		Manal	Marriell		uency (M	Hz)	mark	m	5	14.01
36.7- ³	13.2		Read/	Antenna	Freq Cable	Preamp		Limit	Over		14.01
36.7- ³	13.2	Freq	Read/	Factor	Frequ Cable Loss	Preamp Factor	Level	Line	Limit	Remark	14.01
36.7- ³	13.2		Read/		Freq Cable	Preamp Factor		Line		Remark	14.01
36.7- ³		Freq MHz 13.298	Read/ Level dBuV 17.73	Factor <u>dB/m</u> 19.63	Freque Cable Loss dB 0.40	Preamp Factor dB 0.00	Level dBuV/m 37.76	Line <u>dBuV/m</u> 80.50	Limit dB -42.74	Remark	14.01
36.7- ¹		Freq MHz 13.298 13.520	Read/ Level dBuV 17.73 33.45	Factor dB/m 19.63 19.59	Cable Loss dB 0.40 0.41	Preamp Factor dB 0.00 0.00	Level dBuV/m 37.76 53.45	Line dBuV/m 80.50 90.50	Limit dB -42.74 -37.05	Remark	14.01
36.7- ⁽⁾		Freq MHz 13.298	Read/ Level dBuV 17.73	Factor <u>dB/m</u> 19.63	Freque Cable Loss dB 0.40	Preamp Factor dB 0.00 0.00 0.00	Level dBuV/m 37.76 53.45 55.43	Line dBuV/m 80.50 90.50 124.00	Limit dB -42.74 -37.05	Remark	14.01

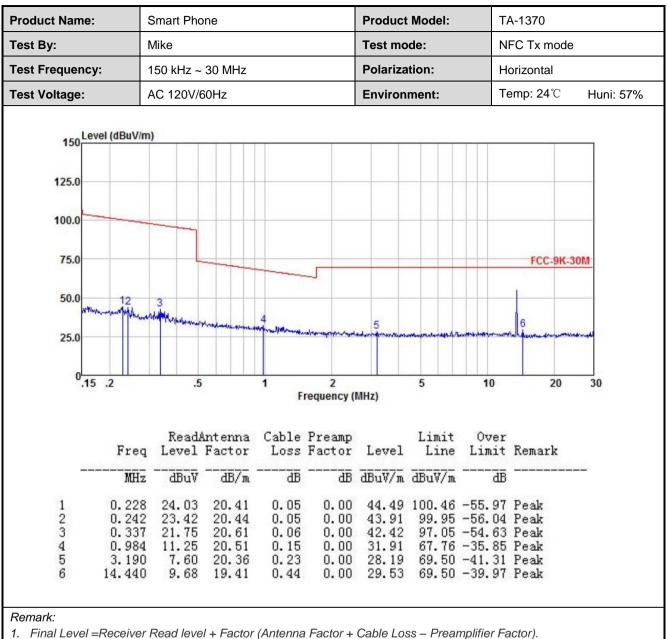


Spurious Emissions: Test frequency range: 9 kHz- 30 MHz

roduct Nam	e:	Smart Pho	one			Product I	Model:	TA-	1370	
est By:		Mike				Test mod	le:	NCF	Tx mode	e
est Frequer	icy:	150 kHz ~	30 MHz			Polarizat	ion:	Vert	ical	
est Voltage		AC 120V/	60Hz			Environm	nent:	Tem	יר: 24 ℃	Huni: 57%
150	Level (dBuV/	m)								
125.0						_	_			
400.0										
100.0										
75.0						_	_		FCC-9K-	30M
	12									
50.0	W MANANA	3						5		
		HART BALL LAND	4 martin with	man	and - delike weden der	ala anala ada a	ad a sector to tables		6	
25.0							all states and states a			
0	.15 .2			1	2		5	10	20	30
	.15 .2		,		requency (N	/Hz)	5	10	20	30
		-			_			5 12 (1971) (1971)		
	Freq	Read/ Level	Intenna Factor			Level	Limit Line	Over Limit	Remark	
<u></u>	MHz	 dBuV			<u>d</u> B	dBuV/m	dBuV/m			
4	0.160			0.03				-47.79	Deals	
1	0.167	35.13	20.25	0.03	0.00	55.41	103.18	-47.77	Peak	
2	0.327			0.06				-52.49		
3				0.39				-29.91		
2 3 4 5 6	12.716	19.43	19.77	0. 39	0.00	00.00				

2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.





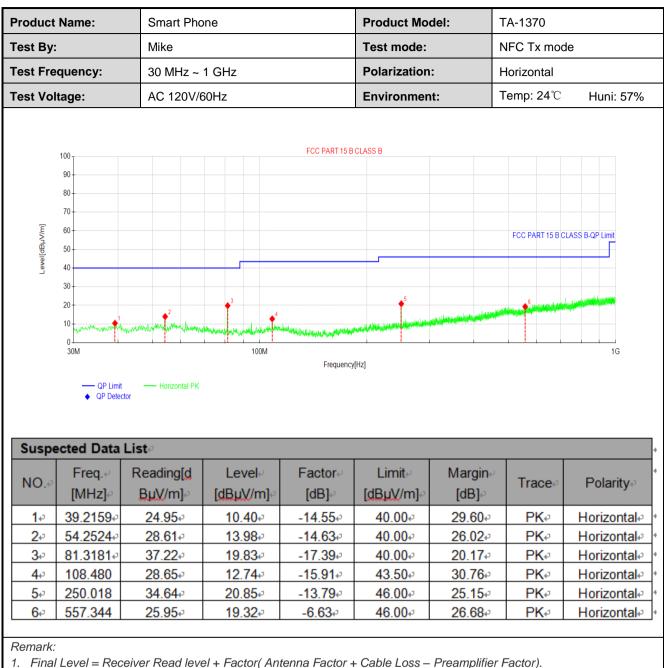
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.



Test frequency range: 30MHz-1000MHz

Product	Name:	Smart Pho	ne		Product Mod	del:	FA-1370	
Fest By:		Mike			Test mode:	1	NFC Tx mod	е
Test Fre	quency:	30 MHz ~	1 GHz		Polarization	: ``	/ertical	
Test Vol	tage:	AC 120V/6	60Hz		Environmen	t: -	Гетр: 24 ℃	Huni: 57%
[ɯ//ɹ٢db]ləvə.L	100 90 80 70 60 50 40 30 20 10 30 30 40 90 10 90 10 90 10 90 10 10 10 10 10 10 10 10 10 10 10 10 10		2 2 2 2 2 100M	FCC PART 15 B			FCC PART 15 B C	LASS B-QP Limit
Suspe	ected Data	Liste						
NO.₽	Freq.↩ [MHz]↩	Reading[d BµV/m]∂	Level⊌ [dBµV/m]⊮	Factor⊌ [dB]⊌	Limit⊮ [dBµV/m]⊮	Margin⊮ [dB]∉	Trace	Polarity
1 ₽	50.1780 ₽	31.39₽	16.68 ₽	-14.71 ₽	<mark>40.00</mark> ⊷	23.32 ₽	PK₽	Vertical <i></i> ⊷
2 ₽	81.3181@	46 .59₽	29.20 ₽	-17.39 ₽	40.00 €	10.80₽	PK₽	Vertical .
3 ₽	107.995	33.34	17.40↩	-15.94	43.50₽	26.10₽	PK₽	Vertical₽
4₽	303.470	<mark>25.80</mark> ₽	13.19 ₽	-12.61 <i>₽</i>	<mark>46.00</mark> ₽	32.81₽	PK₽	Vertical e
5⊷	549.972	26.27 ₽	19.38 ₽	<mark>-6.89</mark> ₽	<mark>46.00</mark> ⊷	26.62 ₽	PK₽	Vertical ₽
<mark>6</mark> ⊷	824.412	<mark>27.05</mark> ₽	25.08₽	-1.97 ₽	46.00 ₽	20.92 ₽	PK₽	Verticale
	Level = Rece	eiver Read leve	el + Factor (Ani uencies are ve					





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



6.3 20dB Bandwidth

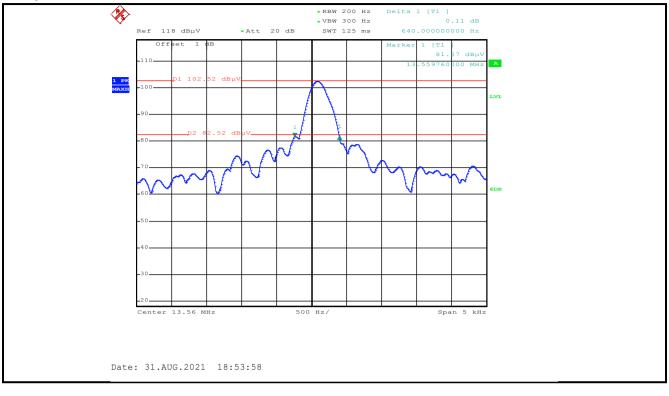
Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak
Limit:	The fundamental emission be kept within at least the central 80% of the permitted band
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set the EUT to proper test channel. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. Read 20dB bandwidth.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	The test data in this report are based on the previous report with report number: JYTSZB-R12-2101744

Measurement Data

20dB bandwidth (kHz)	Limit (kHz)	Results
0.64	11.2	Passed
Note: For 13.56MHz, permitted Band is	14 kHz, so the Limit is 11.2 kHz.	



Test plot as follows:





6.4 Frequency Tolerance

Test Requirement:	FCC Part15 C Section 15.225 (e)
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak
Limit:	±0.01% of the operating frequency
Test mode:	Transmitting mode
Test Procedure:	 Frequency stability V.S. Temperature measurement The equipment under test was powered by a fresh battery. RF output was connected to spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached Frequency stability V.S. Voltage measurement Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
	Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	The test data in this report are based on the previous report with report number: JYTSZB-R12-2101744



Measurement Data:

a) Frequency stability V.S. Temperature measurement

Voltage (Vdc)	Temperature (℃)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	-20	0.00008	0.00059	±0.01	Pass
	-10	0.00008	0.00059	±0.01	Pass
	0	0.00007	0.00052	±0.01	Pass
3.85	+10	0.00007	0.00052	±0.01	Pass
3.00	+20	0.00008	0.00059	±0.01	Pass
	+30	0.00006	0.00044	±0.01	Pass
	+40	0.00008	0.00059	±0.01	Pass
	+50	0.00007	0.00052	±0.01	Pass

b) Frequency stability V.S. Voltage measurement

Temperature (℃)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
	3.40	0.00007	0.00052	±0.01	Pass
25.0	3.85	0.00006	0.00044	±0.01	Pass
	4.44	0.00007	0.00052	±0.01	Pass



6.5 Conducted Emission

Test Requirement:	FCC Part15 B Section 15	.207	
TestFrequencyRange:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:		Limit	(dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5 0.5-30	<u>56</u> 60	46
	* Decreases with the loga		50
Test setup:	Reference		
Taat procedure	AUX E.U.T 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	EMI Receiver	power
Test procedure	 50ohm/50uH coupling i The peripheral devices a LISN that provides a termination. (Please rephotographs). Both sides of A.C. line interference. In order to positions of equipment 	ation network (L.I.S.N.).I impedance for the meas are also connected to th 50ohm/50uH coupling in fer to the block diagram	It provide a uring equipment. he main power through npedance with 50ohm of the test setup and um conducted ssion, the relative cables must be changed
Test Instruments:	Refer to section 5.9 for de	etails	
Test mode:	Refer to section 5.3 for de	etails	
Test results:	Pass		
Remark:	The test data in this repondent of the test data in this repondent of the test data in this repondent of the test data in test data in the test data in test data in test data in the test data in test dat	•	evious report with report



Measurement Data:

	Smart Phone	9	Ρ	roduct mo	odel:	TA-137	0	
est by:	Mike		Т	est mode:	:	NFC Tx	mode	
est frequency:	150 kHz ~ 30	0 MHz	Р	hase:		Line		
est voltage:	AC 120 V/60) Hz	Е	nvironme	nt:	Temp: 2	22.5 ℃	Huni: 55%
90 Level (dBuV) 80 70 60 50 40 40 40 40 40 40 40 40 40 40 40 40 40	M M M		8 MM ^{Mm} huu 9	petropoly perform	10 mm	11	PART 15C Q	
0 .15 .2 Trace: 73	.5	1 Freq	2 uency (MH	5 Iz)	5	10	20	30
Trace: 73	Read eq Level 1	Freq LISN Aux Factor Factor	Cable Loss	tz) Level	Limit Line	Over Limit		30
Trace: 73	Read	Freq LISN Aux	uency (MH Cable	lz)	Limit	Over		30

Guasi-r eak and Average measurement were performed at the nequencies with max
 Final Level =Receiver Read level + LISN Factor + Aux Factor+ Cable Loss.



Product name: Smart Phone					Product model:			TA-1370			
Fest by:	Mi	Mike 150 kHz ~ 30 MHz AC 120 V/60 Hz				Test mode: Phase: Environment:			NFC Tx mode Neutral		
Test frequency:	15										
Test voltage:	AC								Temp: 22.5°C Huni: 55%		
90 Leve 80 70 60 50 40 40 20 10 0.15 Trace: 77	el (dBuV)	.5			10 10 10 10 10 10 10 10 10 10	<i>Мини Мин</i> 5	Nervel and the	11	20 30		
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark		
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	<u>d</u> B			
1 2 3 4 5 6 7 8 9 10 11 12	$\begin{array}{c} 0.174\\ 0.299\\ 0.299\\ 0.538\\ 0.549\\ 0.608\\ 0.630\\ 0.958\\ 1.203\\ 2.297\\ 14.213\\ 14.213\end{array}$	28. 39 35. 32 27. 13 36. 41 28. 81 27. 13 34. 95 25. 11 32. 42 31. 10 42. 55 30. 82	10.21 10.25 10.25 10.28 10.29 10.29 10.29 10.31 10.31 10.33 10.71 10.71	0.00 0.01 0.03 0.03 0.04 0.04 0.07 0.10 0.22 2.88 2.88	0.01 0.03 0.03 0.02 0.02 0.02 0.02 0.05 0.09 0.16 0.12 0.12	38.61 45.61 37.42 46.75 39.15 37.48 45.30 35.54 42.92 41.81 56.26 44.53	60.28 50.28 56.00 46.00 46.00 56.00 46.00 56.00	-14.67 -12.86 -9.25 -6.85 -8.52 -10.70 -10.46 -13.08 -14.19 -3.74	Average QP Average QP Average QP QP QP QP		

An initial pre-scan was performed on the line and neutral lines with peak detector.
 Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

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

Project No.: JYTSZE2108101



7 Test Setup Photo

Reference to the test setup photos: NFC-Test Setup Photo

8 EUT Constructional Details

Reference to the External Photo and Internal Photo

-----End of report-----