

Report No: CCISE200406502

# FCC REPORT

Applicant:	INDUSTRIA FUEGUINA DE RELOJERIA ELECTRONICA SA
Address of Applicant:	SARMIENTO 2920 9420 RIO GRANDE, Argentina 9420
Equipment Under Test (F	EUT)
Product Name:	Smartphone
Model No.:	T2
Trade mark:	Kodak
FCC ID:	2ALP3-T2
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	22 Apr., 2020
Date of Test:	22 Apr., to 12 May, 2020
Date of report issued:	19 May, 2020
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 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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# 2 Version

Version No.	Date	Description
00	19 May, 2020	Original

Tested by:

Wei Janet

Test Engineer

Date: 19 May, 2020

Winner Thang

Reviewed by:

**Project Engineer** 

Date: 19 May, 2020

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# 4 Test Summary

	Test Items	Section in CFR 47	Result	
	Antenna requirement	15.203 & 15.247 (b)	Pass	
AC	Power Line Conducted Emission	15.207	Pass	
(	Conducted Peak Output Power	15.247 (b)(3)	Pass	
	6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass	
	Power Spectral Density	15.247 (e)	Pass	
	Band Edge	15.247 (d)	Pass	
	Spurious Emission	15.205 & 15.209	Pass	
<ul> <li>Remark:</li> <li>1. Pass: The EUT complies with the essential requirements in the standard.</li> <li>2. N/A: Not Applicable.</li> <li>3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).</li> </ul>				

Test Method:

ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02



# 5 General Information

### **5.1 Client Information**

Applicant:	INDUSTRIA FUEGUINA DE RELOJERIA ELECTRONICA SA
Address:	SARMIENTO 2920 9420 RIO GRANDE, Argentina 9420
Manufacturer:	INDUSTRIA FUEGUINA DE RELOJERIA ELECTRONICA SA
Address:	SARMIENTO 2920 9420 RIO GRANDE, Argentina 9420
Factory:	Vikin Communication Technology Co.,Ltd
Address:	Room 1005, HSAE Technology Building, Hi-Tech Park, Nanshan District, Shenzhen, China

### 5.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	T2
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	-1.4 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2800mAh
AC adapter:	Model: KA1508-0501000AR
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel						
equency						
62MHz						
64MHz						
66MHz						
68MHz						
70MHz						
72MHz						
74MHz						
76MHz						
78MHz						
80MHz						

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.

# 5.3 Test environment and test mode

# Operating Environment: Temperature: 24.0 °C Humidity: 54 % RH Atmospheric Pressure: 1010 mbar Test mode: Transmitting mode Keep the EUT in continuous transmitting with modulation

Radiated Emission: 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, 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

### 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)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

# 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

Shenzhen Zhongjian Nanfang Testing 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 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>

#### 5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, 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

# 5.9 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	044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

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	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		



# 6 Test results and Measurement Data

### 6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohib 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited. ower limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The BLE antenna is an Interna is an Interna is -1.4 dBi.	al antenna which cannot replace by end-user, the best-case gain of the

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# 6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207				
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Limit (	/		
	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 logarithm		50		
Test procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>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).</li> <li>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 C63.10(latest version) on conducted measurement.</li> </ol>				
Test setup:	Reference	80cm Filter EMI Receiver	– AC power		
Test Instruments:	Refer to section 5.9 for details	i			
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

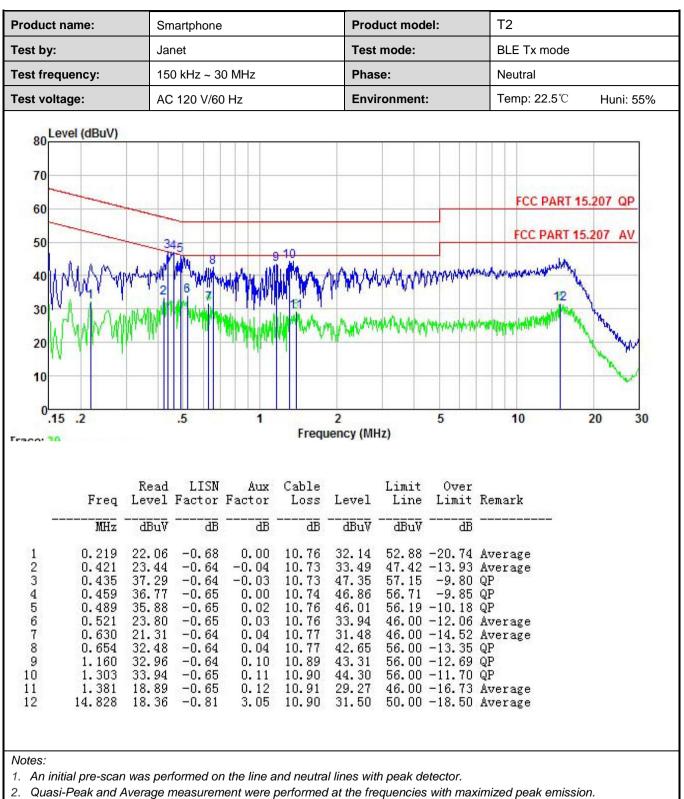


#### **Measurement Data:**

oduct name:	Sma	Smartphone		Product model:			Т2		
est by:	Jan	et		Test mode:			BLE Tx mode		
est frequency:	150	kHz ~ 30 MHz		Phase:		L	ine		
est voltage:	AC	120 V/60 Hz		Environ	ment:	Г	<b>`emp: 22.5°</b> ℃	Huni: 55%	
80 Level (dBu 70 60 50 40 30 20 10	v)	3	8-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hutset have been		MANNAWAYAN MANNAWAYAN	FCC PAR	T 15.207 QP	
0.15 .2		.5 1	2 Frequen	n <mark>cy (MHz</mark> )	5		10	20 30	
F	Read req Level	LISN A Factor Facto	ux Cable or Loss	Level	Limit Line	Over Limit	Remark		
1	Hz dBuV	B	ab ab	₫₿uΫ	dBu∛	āē		_	
2 0.4 3 0.4 4 0.4 5 0.6	137 36.54 142 29.35 194 36.51 197 26.92 347 24.79 923 23.17 188 32.04 166 32.74	-0.38 0.1 -0.39 -0.3 -0.39 -0.3 -0.38 -0.3 -0.38 0.3 -0.38 0.3	08 10.74 32 10.76 32 10.76 39 10.77 26 10.85	47.01 39.79 46.56 36.97 34.79 33.90 42.91 43.53	$\begin{array}{c} 47.02\\ 56.10\\ 46.05\\ 46.00\\ 46.00\\ 56.00\\ 56.00\\ 56.00 \end{array}$	-9.54 -9.08 -11.21 -12.10 -13.09 -12.47	Average QP Average Average Average QP		

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





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



# 6.3 Conducted Output Power

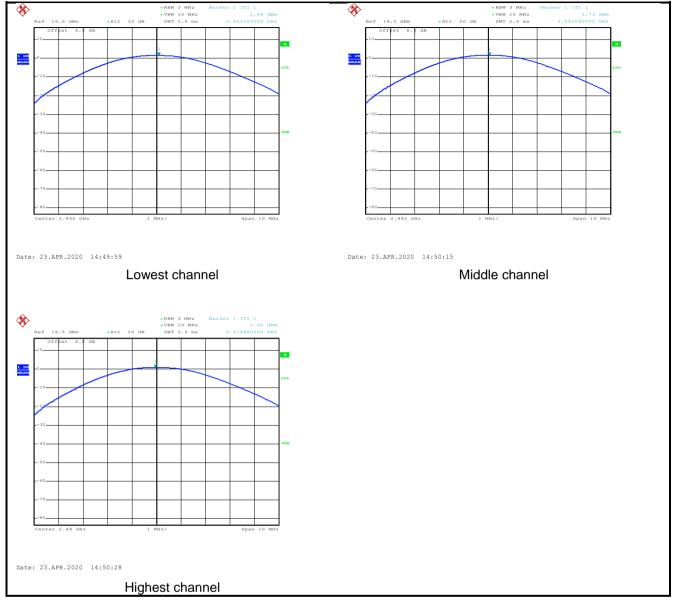
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result	
Lowest	1.64			
Middle	1.73	30.00	Pass	
Highest	1.00			

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#### Test plot as follows:





# 6.4 Occupy Bandwidth

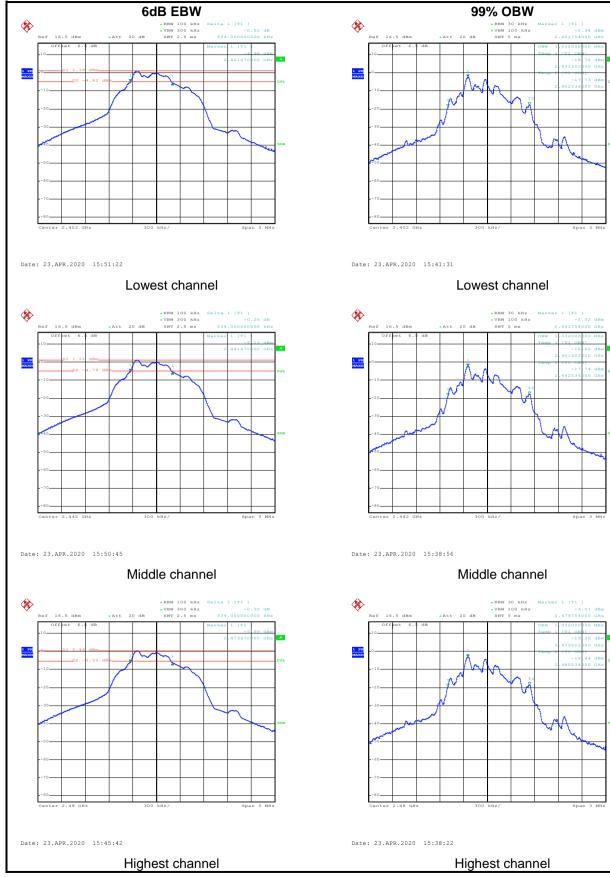
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E-U-T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.534		Pass	
Middle	0.534	>500		
Highest	0.534			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.032			
Middle	1.032	N/A	N/A	
Highest	1.032			

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#### Test plot as follows:





### 6.5 Power Spectral Density

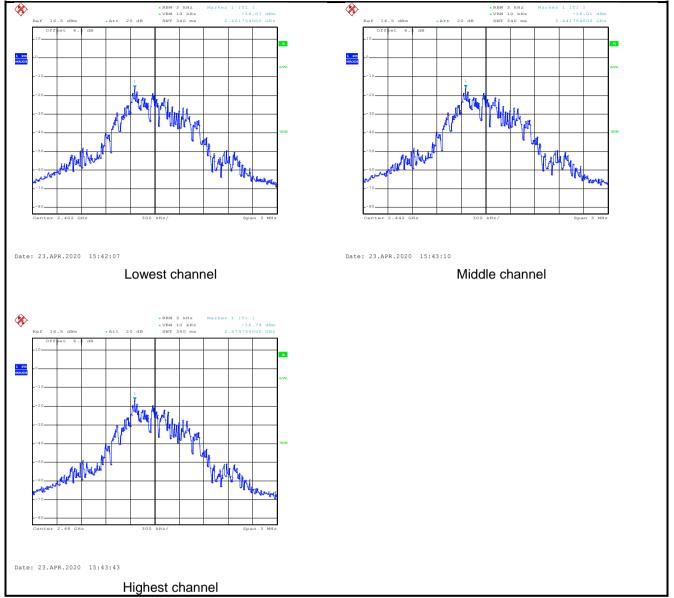
Test Requirement:	FCC Part 15 C Section 15.247 (e)			
Limit:	8 dBm/3kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

#### **Measurement Data:**

Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-16.07		
Middle	-16.01	8.00	Pass
Highest	-16.74		



#### Test plots as follow:



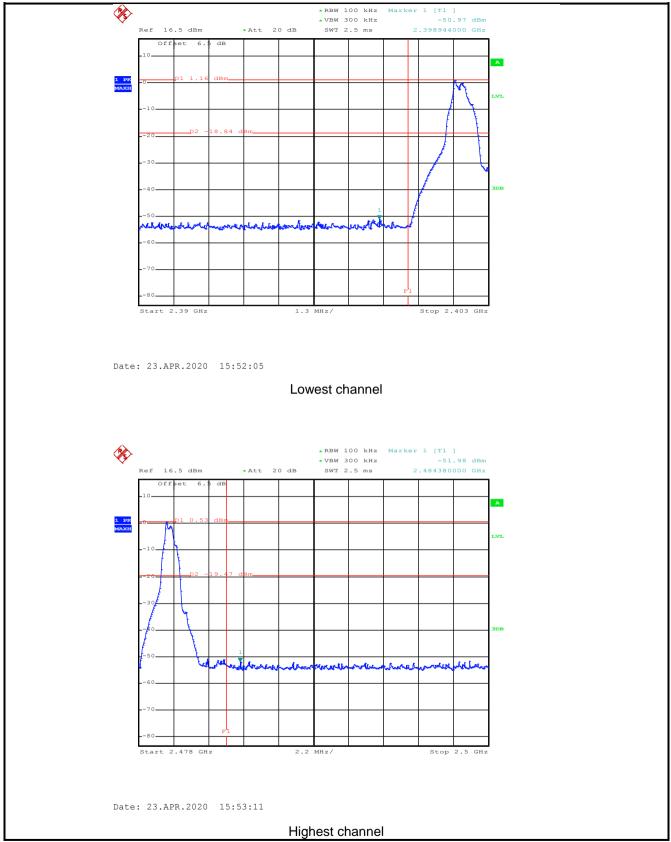


# 6.6 Band Edge

#### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
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 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

#### Test plots as follow:

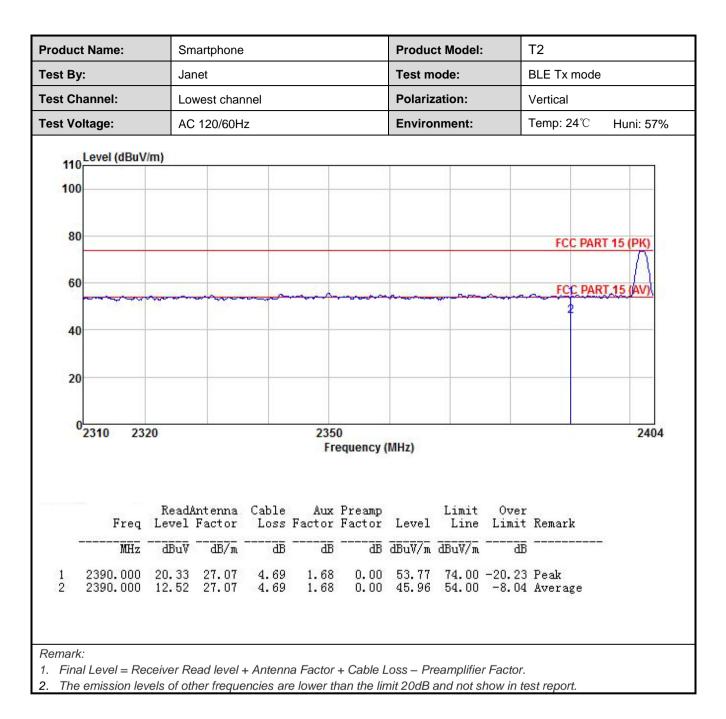




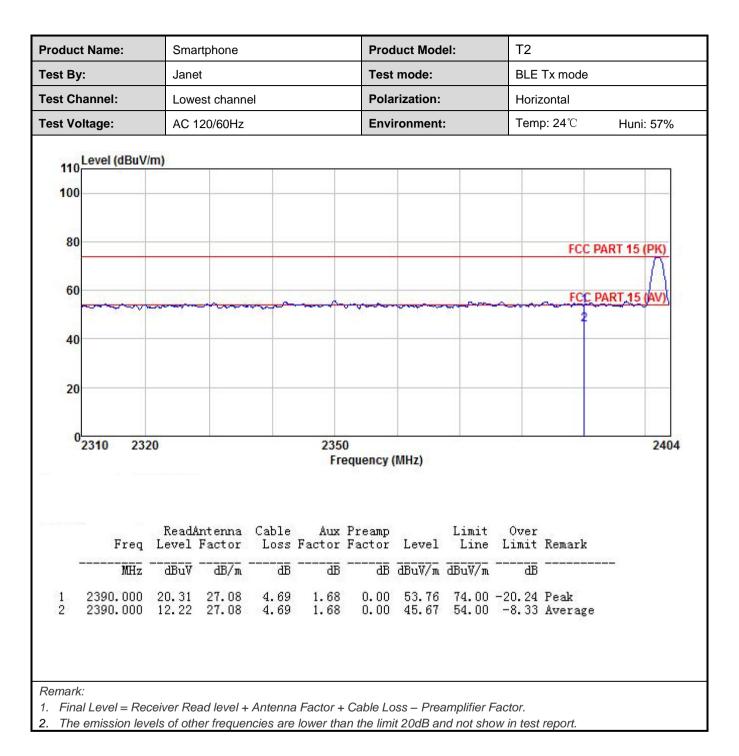
#### 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz						
Test Distance:	3m						
Receiver setup:	Frequency Detect			RBW		/BW	Remark
	Above 1GHz	Peak		1MHz		<u>MHz</u>	Peak Value
	Fraguan	RMS	Limit	1MHz		MHz	Average Value Remark
Limit:	Frequen		Limit (dBuV/m @3m) Remark 54.00 Average Value				
	Above 1GHz			74.00			Peak Value
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 1.5 meters ab the ground at a 3 meter camber. The table was rotated 360 degre to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height anter tower.</li> <li>The antenna height is varied from one meter to four meters abov the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set t make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to meters and the rota table was turned from 0 degrees to 360 degr to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10 dB lower th the limit specified, then testing could be stopped and the peak va of the EUT would be reported. Otherwise the emissions that did have 10 dB margin would be re-tested one by one using peak, qu peak or average method as specified and then reported in a data</li> </ol>			ed 360 degrees ce-receiving e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi-			
Test setup:		LEUT urntable) Gr Test Receiv	3m		Antenna Tr	ower	
Test Instruments:	Refer to section	on 5.9 for de	tails				
Test mode:	Refer to section	on 5.3 for de	tails				
Test results:	Passed						

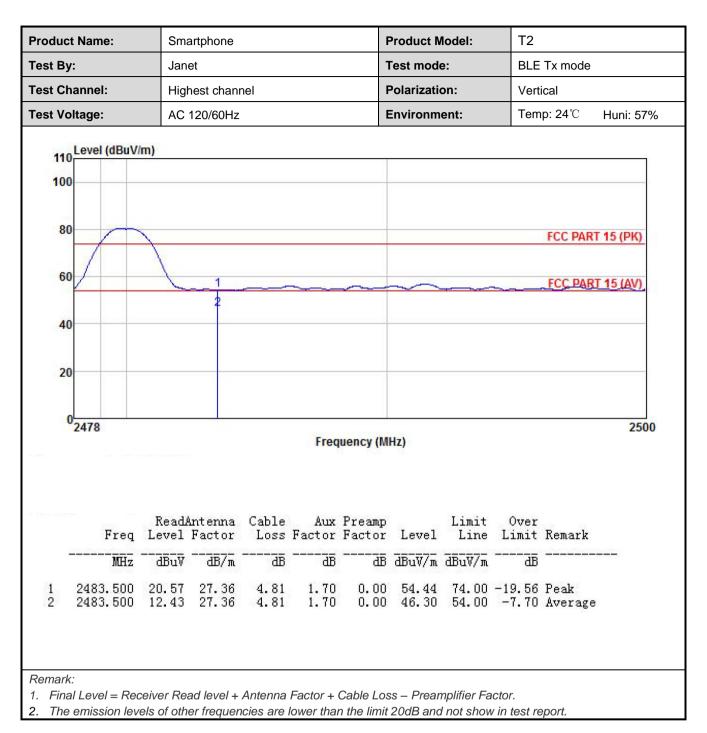




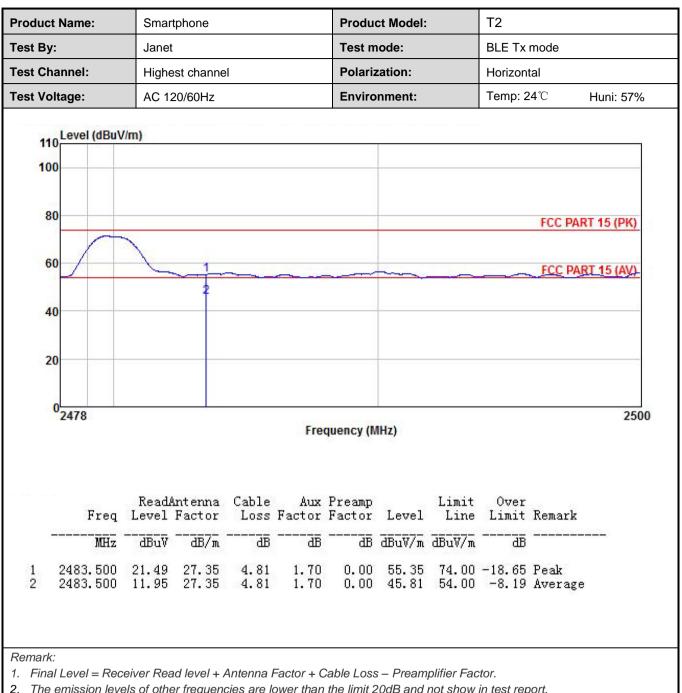












2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



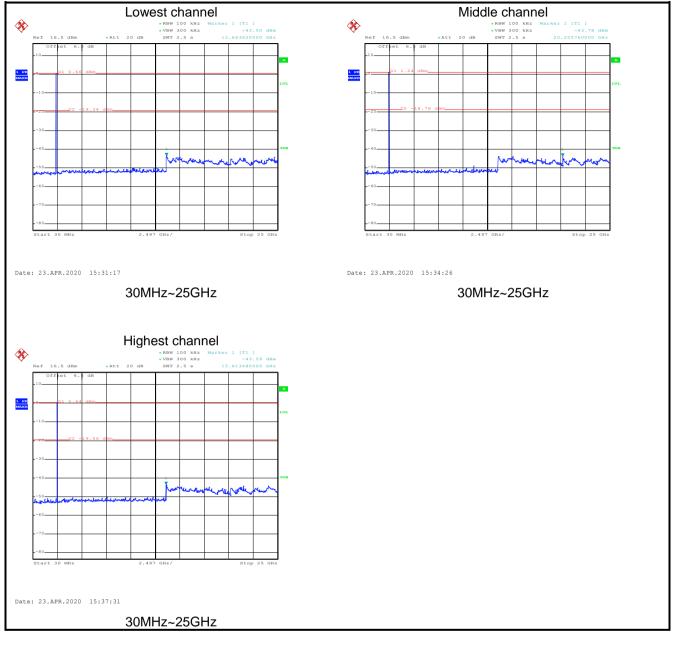
# 6.7 Spurious Emission

#### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)						
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 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

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#### Test plot as follows:





#### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detector	r	RBW	VB	W Remark	
	30MHz-1GHz	Quasi-pea	ak	120KHz	300	KHz Quasi-peak Value	
		Peak		1MHz 3MI		Hz Peak Value	
	Above 1GHz	RMS		1MHz	ЗM	Hz Average Value	
Limit:	Frequency	/	Lim	nit (dBuV/m @	23m)		Remark
	30MHz-88M	Hz		40.0		C	Quasi-peak Value
	88MHz-216N	1Hz		43.5		G	Quasi-peak Value
	216MHz-960	MHz		46.0		G	Quasi-peak Value
	960MHz-1G	Hz		54.0			Quasi-peak Value
	Above 1GH	17		54.0			Average Value
				74.0			Peak Value table 0.8m(below
	<ol> <li>1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data</li> </ol>						
Test setup:	sheet. Below 1GHz						

# <u>CCIS</u>

	AE EUT Horn Artenna Tower Horn Artenna Tower Ground Reference Plane Test Receiver			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			
Remark:	<ol> <li>Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.</li> </ol>			

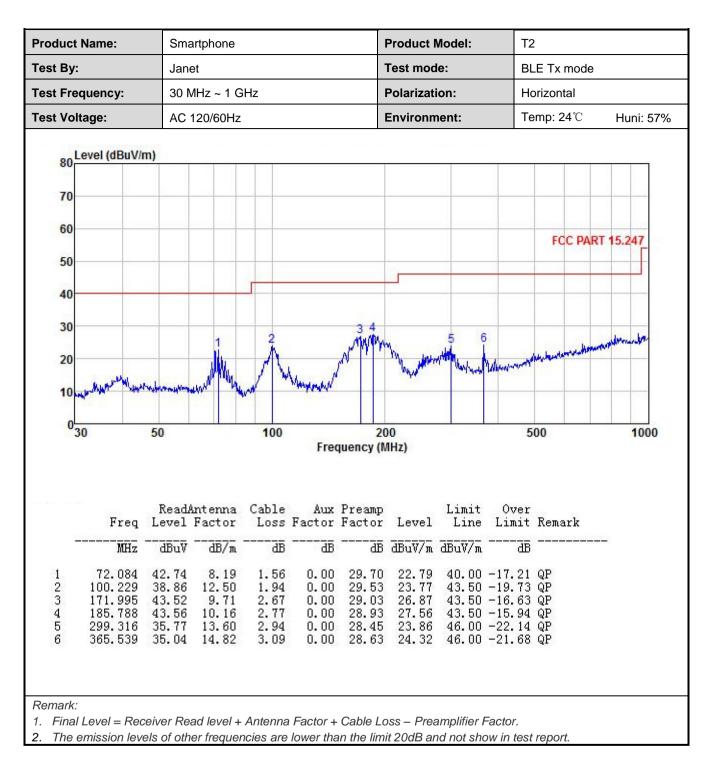


#### Measurement Data (worst case):

#### Below 1GHz:

oduct Name:	Smartphone		Product M	-			T2 BLE Tx mode		
st By:	Janet		Test mod						
st Frequency:	30 MHz ~ 1 G	iHz	Polarizati	Polarization: Environment:		Vertical			
st Voltage:	AC 120/60Hz		Environm			Temp: 24°C Huni:			
80 Level (dBuV/ 70 60 50 40 30 10	m)		5 MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	6 MMMM	adamentar Marca		T 15.247		
0 <sub>30</sub>	50	100 Fre	200 quency (MHz)	0. Y	500		1000		
	ReadAntenna Level Factor	Cable Aux Loss Factor	: Preamp Factor Level	Limit Line	Over Limit Re	emark			
Freq	destantes ordertedes	Although the standard and the standards	승규는 방법이 가장 집에서 요즘 가장을 가장하지 않는다.	and the state of the state of the state			100 000 C		
Freq MHz	dBuVdB/m	BB	dB dBuV/m	dBuV/m -	B				







#### Above 1GHz

			Te	est channe	el: Lowest cl	nannel				
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	47.53	31.02	6.80	2.44	41.81	45.98	74.00	-28.02	Vertical	
4804.00	47.11	31.02	6.80	2.44	41.81	45.56	74.00	-28.44	Horizontal	
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	40.09	31.02	6.80	2.44	41.81	38.54	54.00	-15.46	Vertical	
4804.00	40.44	31.02	6.80	2.44	41.81	38.89	54.00	-15.11	Horizontal	
Test channel: Middle channel										
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	47.11	31.18	6.86	2.47	41.84	45.78	74.00	-28.22	Vertical	
4884.00	47.60	31.18	6.86	2.47	41.84	46.27	74.00	-27.73	Horizontal	
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4884.00	39.85	31.18	6.86	2.47	41.84	38.52	54.00	-15.48	Vertical	
4884.00	40.59	31.18	6.86	2.47	41.84	39.26	54.00	-14.74	Horizontal	
Test channel: Highest channel										
					or: Peak Val					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	47.76	31.32	6.91	2.49	41.87	46.61	74.00	-27.39	Vertical	
4960.00	47.18	31.32	6.91	2.49	41.87	46.03	74.00	-27.97	Horizontal	
				Detector:	Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	40.11	31.32	6.91	2.49	41.87	38.96	54.00	-15.04	Vertical	
4960.00	40.68	31.32	6.91	2.49	41.87	39.53	54.00	-14.47	Horizontal	
Remark: 1. Final Le	vel =Receiv	ver Read leve	el + Anteni	na Factor +	Cable Loss	+ Aux Factor	– Preamplifie	r Factor.		

Final Level =Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor
 The emission levels of other frequencies are lower than the limit 20dB and not show in test report.