

Report No: JYTSZB-R12-2101684

FCC REPORT (Bluetooth)

Applicant:	HMD global Oy		
Address of Applicant:	Bertel Jungin aukio 9, 02600 Espoo, Finland		
Equipment Under Test (E	EUT)		
Product Name:	Smart Phone		
Model No.:	TA-1390		
Trade mark:	NOKIA		
FCC ID:	2AJOTTA-1390		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	19 Aug., 2021		
Date of Test:	20 Aug., to 28 Aug., 2021		
Date of report issued:	29 Aug., 2021		
Test Result:	PASS *		

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

Authorized Signature:



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.

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2 Version

Version No.	Date	Description
00	29 Aug., 2021	Original

Tested by:

Mike.OU Test Engineer

Date: 29 Aug., 2021

Winner Thang

Reviewed by:

Project Engineer

Date: 29 Aug., 2021

Project No.: JYTSZE2008099



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4 Test Summary

Test Items	Section in CFR 47	Test Data	Result	
Antenna Requirement	15.203 & 15.247 (b)	See Section 6.1	Pass	
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass	
Conducted Peak Output Power	15.247 (b)(1)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
20dB Occupied Bandwidth	15.247 (a)(1)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
Carrier Frequencies Separation	15.247 (a)(1)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
Hopping Channel Number	15.247 (a)(1)	Refer to the 15.247 (a)(1) report:SRTC2021- 9004(F)-21082801(D) 9		
Dwell Time	15.247 (a)(1)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
Conducted Band Edge	15.205 & 15.209 & 15.247(d)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
Radiated Band Edge		See Section 6.3.1	Pass	
Conducted Spurious Emission	15.209 & 15.247(d)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	Refer to the report:SRTC2021- 9004(F)-21082801(D)	
Radiated Spurious Emission		See Section 6.4.1	Pass	
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The report: SRTC2021-9004(F)-21082801(D), issued by The State Radio_monitoring_center Testing Center. Test Method: ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02				



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-1390
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:	Internal Antenna
Antenna gain:	-2.5 dBi
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.
. cot campio conditioni	



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: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.							

5.3 Test environment and 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.		
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.			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))			
Conducted Emission (9kHz ~ 30MHz)	±2.62 dB (k=2)			
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB			
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB			
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB			
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB			
Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI				

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. 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: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao 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 Instruments list

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
Biconical Antenna	SCHWARZBECK	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	WXJ002-4	03-07-2021	03-06-2022
Pre-amplifier (30MHz ~ 1GHz)	HP	8447D	WXG001-2	03-07-2021	03-06-2022
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	03-07-2021	03-06-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2020	11-26-2021
Coaxial Cable (30MHz ~ 1GHz)	JYT	JYT3M-1G-NN-8M	WXG001-4	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-18G-NN-8M	WXG001-5	03-07-2021	03-06-2022
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2021	03-06-2022
Coaxial Cable (1GHz ~ 18GHz)	JYT	JYT3M-40G-SS-8M	WXG001-7	03-07-2021	03-06-2022
RF Switch Unit	Tonscend	JS0806-F	WXJ089	J089 N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Management Number	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
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
Coaxial Cable	JYT	JYTCE-1G-NN- 2M	WXG003-1	03-03-2021	03-02-2022
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 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 prohil 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. wer 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 Bluetooth antenna is an the antenna is -2.5 dBi.	Internal antenna which permanently attached, and the best case gain of



6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.207								
Test Frequency Range:	150 kHz to 30 MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto								
Limit:	Frequency range (MHz)	Limit (dBuV)						
		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 logar	ithm of the frequency.							
Test setup:	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Networ Test table height=0.8m	Com LISN Filter AC pow EMI Receiver							
Test procedure:	 50ohm/50uH coupling ir The peripheral devices a LISN that provides a 50 termination. (Please reference) Both sides of A.C. line interference. In order to positions of equipment 	tion network (L.I.S.N.). The measuri	nis provides a ng equipment. main power through a dance with 50ohm the test setup and m conducted sion, the relative ables must be changed						
Test Instruments:	Refer to section 5.9 for det	ails							
Test mode:	Hopping mode								
Test results:	Pre-Scan all adapter and worst mode	all modulation, And the	report only reflects the						



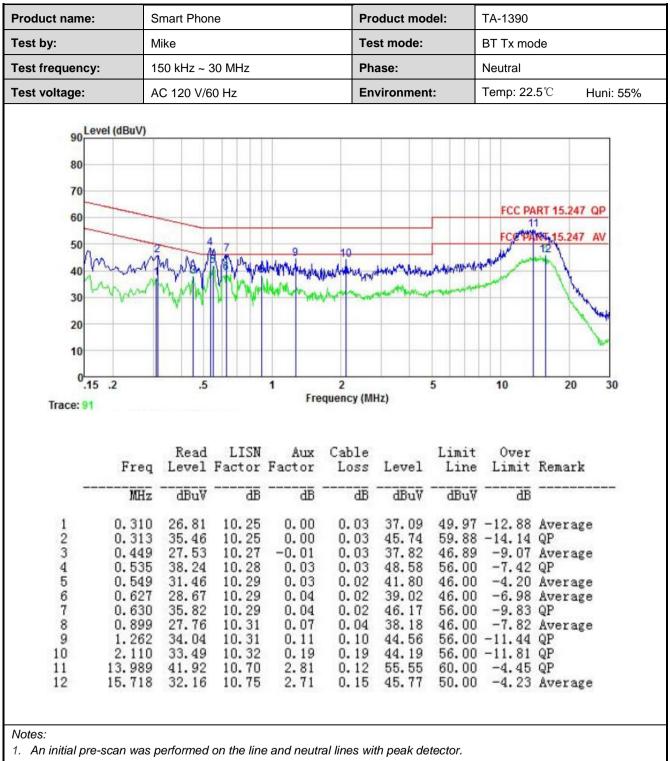
Measurement Data:

oduct name:	S	Smart Phone			Pro	duct mod	el:	TA-1390			
st by:	M	like			Tes	st mode:		BT Tx mode			
st frequency	: 1	150 kHz ~ 30 MHz AC 120 V/60 Hz			Pha	ase:		Line			
st voltage:	A				Env	vironment	:	Temp: 22.	5℃ Huni: 5		
90 Le 80 70 60 50 40 30	evel (dBuV)	3 MM	6 15 1 MW/M	7 9 11 14 14 14 14 14 14 14 14 14 14 14 14 1	nunt toulos	en deel without		12	T 15.247 QP		
10 0.1: Trace: 89	5.2	.5		1 Free	2 quency (MH	5 z)		10	20 30		
0.1		Read	LISN Factor	Free		-	Limit Line	Over	20 30 Remark		
0.1		Read		Free	quency (MH Cable	z)	Limit	Over			

2. 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.





2. 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.



6.3 Band Edge

6.3.1 Radiated Emission Method

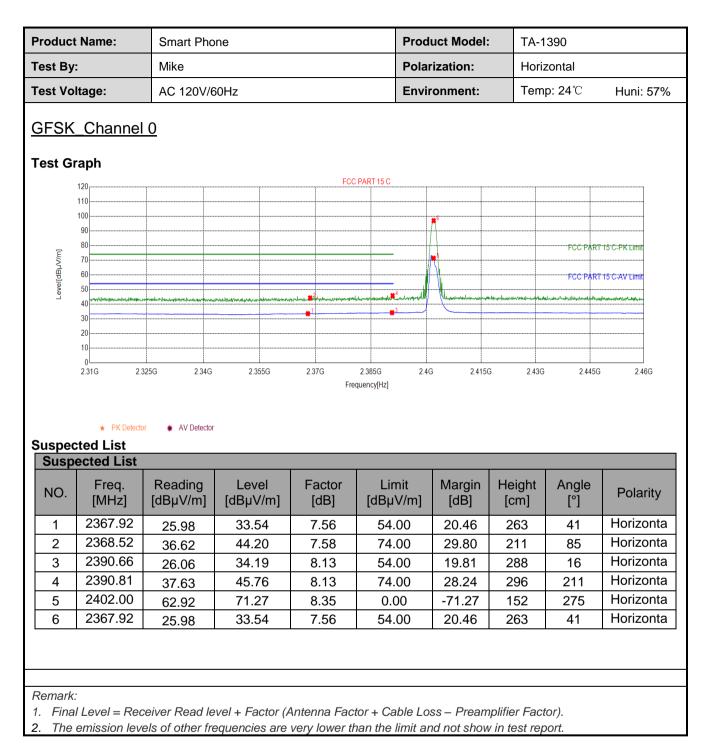
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205							
Test Frequency Range:	2310 MHz to 23	90 MHz and 2	2483.5 MHz to	2500 N	1Hz			
Test Distance:	3m							
Receiver setup:	Frequency	equency Detector RBW VBW Remark						
		Peak	1MHz	3	MHz	Peak Value		
	Above 1GHz	RMS	3	MHz	Average Value			
Limit:	Frequenc	cy L	imit (dBuV/m @	03m)		Remark		
	Above 1G	U-7	54.00		A	Average Value		
		112	74.00			Peak Value		
Test setup:		AE EUT Horn Antenna Tower Horn Antenna Tower Test Receiver Test Receiver Controller						
Test Procedure:	 ground at a 3 determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremer 4. For each sus and then the the rota table maximum rea 5. The test-rece Bandwidth w 6. If the emission limit specified 	 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 						
Test Instruments:	Refer to section	5.9 for details	3					
Test mode:	Non-hopping m	ode						
Test results:	Passed							



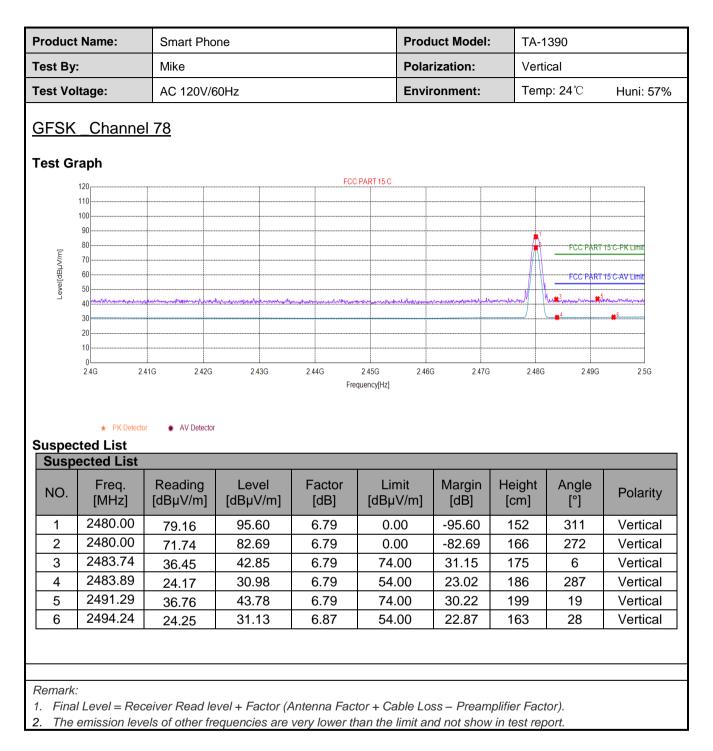
GFSK Mode:

	Name:	Smart Phone			Prod	uct Model:	TA-1	TA-1390		
Test By:		Mike	Pola	rization:	Verti	ical				
Test Vol	tage:	AC 120V/6	60Hz		Envi	ronment:	Tem	Temp: 24°C Huni: 5		
GESK	_Channe	10								
		<u></u>								
Test Gr	aph									
	120			FCC	PART 15 C					
	110									
	90									
C	80					6		FCC PART	15 C-PK-Limit	
Level[dBµV/m]	70 60					*				
evel[d	50			2				FCC PART	15 C-AV Limit	
Ē	40	normalises the Annal Standard Stand	and the second	nguntus <mark>#</mark> tipuskonspolisissikonnaken 1		flashman	mendraterestrationalises	donorski spranski se se	charry who we have been a service	
	30			•						
	20									
	20 10 0	325G 2.34G	2 355G	2 37G	2385G 24	G 2.4150	3 2.43G	2.445G	2.46G	
	20 10 0	325G 2.34G	2.355G	2.37G Fre	2.385G 2.4 quency[Hz]	G 2.4150	G 2.43G	2.445G	2.46G	
	20 10 0	325G 2.34G	2.355G			G 2.4150	5 2.43G	2.445G	2.46G	
	20 10 0					G 2.4150	3 2.43G	2.445G	2.46G	
	20 10 2.31G 2: * PK Detector :ted List					G 2.4150	3 243G	2.445G	2.46G	
	20 10 0 231G 2: * PK Detector					G 2.4150	3 2436	2.445G	2.46G	
	20 10 2.31G 2: * PK Detector :ted List					G 24150 Margin [dB]	3 243G Height [cm]	2.445G Angle [°]	2.46G Polarity	
Suspe	* PK Detects * PK Detects ted List ected List Freq.	or * AV Detector	Level	Fre	quency[Hz]	Margin	Height	Angle		
Suspe NO.	20 10 231G 2: * PKDetector ected List Freq. [MHz]	r * AV Detector Reading [dBµV/m]	Level [dBµV/m]	Fre Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
Suspe NO.	20 10 231G 23 * PK Detects ected List Ected List Freq. [MHz] 2364.85	r * AV Detector Reading [dBµV/m] 25.92	Level [dBµV/m] 33.41	Fre Factor [dB] 7.49	Limit [dBµV/m] 54.00	Margin [dB] 20.59	Height [cm] 263	Angle [°] 25	Polarity Vertical	
Suspe NO. 1 2	20 10 0 231G 2: * PK Detect ected List Ected List Ected List 2364.85 2367.25 2390.06 2390.66	r * AV Detector Reading [dBµV/m] 25.92 36.87	Level [dBµV/m] 33.41 44.42	Fre Factor [dB] 7.49 7.55	Limit [dBµV/m] 54.00 74.00	Margin [dB] 20.59 29.58	Height [cm] 263 211	Angle [°] 25 272	Polarity Vertical Vertical	
NO.	231G 23 * PKDetected ted List Freq. [MHz] 2364.85 2367.25 2390.06	r * AV Detector Reading [dBµV/m] 25.92 36.87 26.02	Level [dBµV/m] 33.41 44.42 34.13	Fre Factor [dB] 7.49 7.55 8.11	Limit [dBµV/m] 54.00 74.00 54.00	Margin [dB] 20.59 29.58 19.87	Height [cm] 263 211 231	Angle [°] 25 272 286	Polarity Vertical Vertical Vertical	

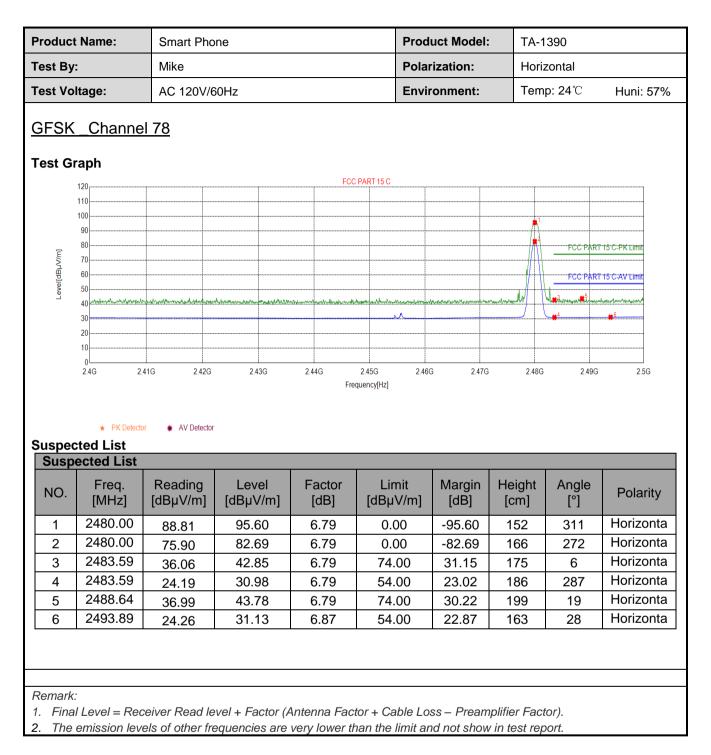














6.4 Spurious Emission

6.4.1 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209							
Test Frequency Range:	9 kHz to 25 GHz	2						
Test Distance:	3m							
Receiver setup:	Frequency	Detecto	or	RBW	VBW	/	Remark	
	30MHz-1GHz	Quasi-pe	eak	120kHz	300kH	Ιz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MH:	z	Peak Value	
	Above IGH2	RMS		1MHz	3MH:	z	Average Value	
Limit:	Frequenc	;y	Lin	nit (dBuV/m	@3m)		Remark	
	30MHz-88N	ЛНz		40.0		0	Quasi-peak Value	
	88MHz-216	MHz		43.5		0	Quasi-peak Value	
	216MHz-960	MHz		46.0		0	Quasi-peak Value	
	960MHz-10	GHz		54.0		0	Quasi-peak Value	
	Above 1G	LI-7		54.0			Average Value	
	ADUGA IG	112		74.0			Peak Value	
	Ta	Jum 0.8m A bble A i d Plane	4m			RF T Recei		
	AE EUT Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver							
Test Procedure:	1. The EUT was /1.5m(above was rotated 3 radiation.	1GHz) abo	ve th	ne ground at	a 3 met	er ch	amber. The table	

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	 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.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Z-axis is the worst case. Pre-Scan all adapter, And the report only reflects the worst mode. 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report.



Measurement Data (worst case):

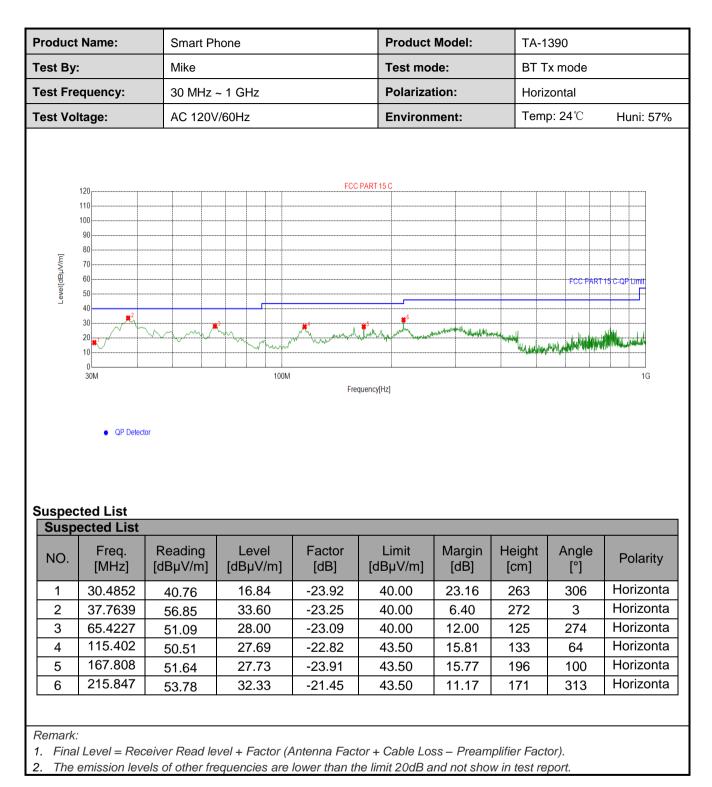
Below 1GHz:

	t Name:	Smart Pl	Smart Phone			Model:	TA-1	TA-1390 BT Tx mode			
est By	:				Test mo	de:	BT T				
est Fre	equency:				1 GHz Polarization:			cal			
est Vo	Itage:	AC 120V	//60Hz		Environ	ment:	Tem	Temp: 24 ℃			
Level[dB,IV/m]	120 110 90 80 70 60 50 40 30 40 10 0 30M		* ²	1 and a start of the start of t	PART 15 C		5	FCC PART	18 C-OP Limit		
	• QP Deted	lor		Fre	quency[Hz]						
	cted List ected List										
	cted List	or Reading [dBµV/m]	Level [dBµV/m]	Fre Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
Susp	cted List ected List Freq.	Reading		Factor	Limit				Polarity Vertical		
Susp	Freq. [MHz] 30.4852 67.3637	Reading [dBµV/m]	[dBµV/m]	Factor [dB]	Limit [dBµV/m]	[dB]	[cm]	[°]			
Susp NO. 1	Cted List ected List Freq. [MHz] 30.4852 67.3637 115.402	Reading [dBµV/m] -63.92	[dBµV/m] 28.83	Factor [dB] -23.92	Limit [dBµV/m] 40.00	[dB] 11.17	[cm] 125	[°] 166	Vertical		
Susp NO. 1 2	Freq. [MHz] 30.4852 67.3637 115.402 176.058	Reading [dBµV/m] -63.92 -63.38	[dBµV/m] 28.83 33.19	Factor [dB] -23.92 -23.38	Limit [dBµV/m] 40.00 40.00	[dB] 11.17 6.81	[cm] 125 115	[°] 166 2	Vertical Vertical		
Susp NO. 1 2 3	Cted List ected List Freq. [MHz] 30.4852 67.3637 115.402	Reading [dBµV/m] -63.92 -63.38 -66.32	[dBµV/m] 28.83 33.19 21.62	Factor [dB] -23.92 -23.38 -22.82	Limit [dBµV/m] 40.00 40.00 43.50	[dB] 11.17 6.81 21.88	[cm] 125 115 163	[°] 166 2 358	Vertical Vertical Vertical		

Remark:

1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).



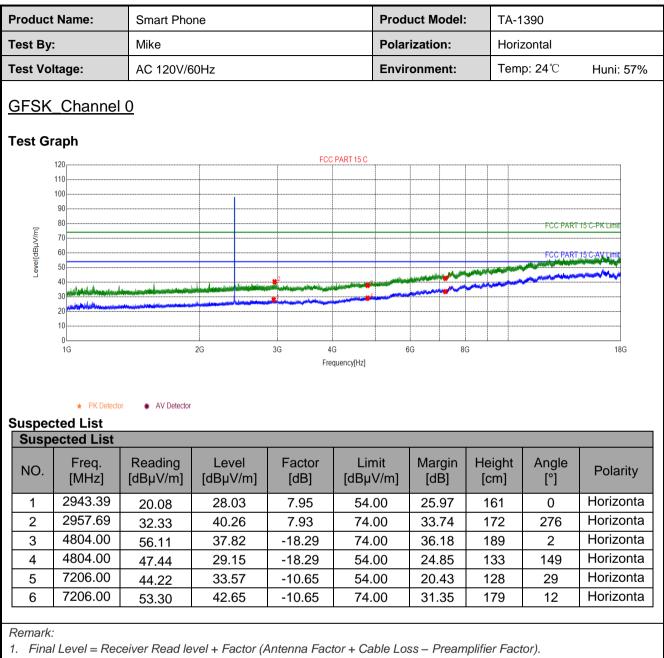




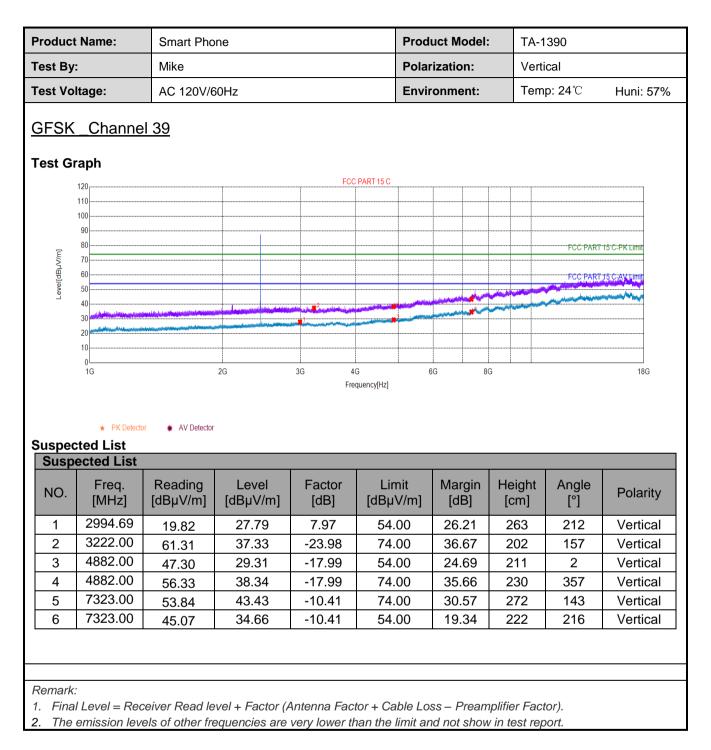
Above 1GHz:

Product	t Name:	Smart Pho	ne			Prod	uct Model:	TA-1	TA-1390VerticalTemp: 24°CHuni: 57%		
Test By	:	Mike				Polar	ization:	Verti			
Test Vo	Itage:	AC 120V/6	60Hz			Envir	onment:	Tem			
<u>GFSK</u>	_Channe	<u>el O</u>									
Test G	raph										
	120			FCC	PART 15 C		11				
	110										
	90										
	80								FCC PART	15°C-PK Limit	
Level[dBµV/m]	70										
el[dB]	60 50								FCC PART	15°C-AV Limit	
Lev	40			2			Martin Carlo Martin		المرادي والمراجع المريد المريدة المريدة المراجع	in the second	
	30	n data di seconda di seconda di di sistema di seconda di seconda di seconda di seconda di seconda di seconda d			* 4		and the second second				
	20	delar den gegen i Bergin Veralagen den gestik det af Belgahisten.									
	10										
	ĨG		2G	3G 4		6	iG 80	3		18G	
				Fre	quency[Hz]						
•	★ PK Detector	or * AV Detector									
	cted List ected List										
Susp						•					
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Lim (dBµ\		Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2879.09	19.82	27.27	7.45	54.0	00	26.73	263	125	Vertical	
2	3120.60	61.73	38.04	-23.69	74.(00	35.96	201	26	Vertical	
3	4804.00	55.60	37.31	-18.29	74.(00	36.69	272	336	Vertical	
4	4804.00	47.94	29.65	-18.29	54.(00	24.35	296	229	Vertical	
5	7206.00	44.72	34.07	-10.65	54.(00	19.93	203	2	Vertical	
6	7206.00	52.78	42.13	-10.65	74.(00	31.87	242	2	Vertical	
		·					·		·		
Remark											
			vel + Factor (A						,		
2. The	emission lev	els of other fre	equencies are	very lower th	nan the li	imit an	d not show	in test rep	oort.		

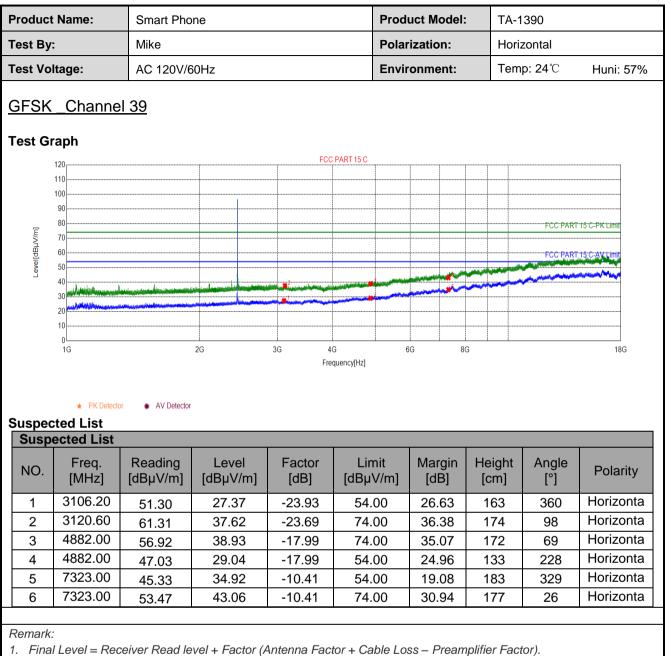




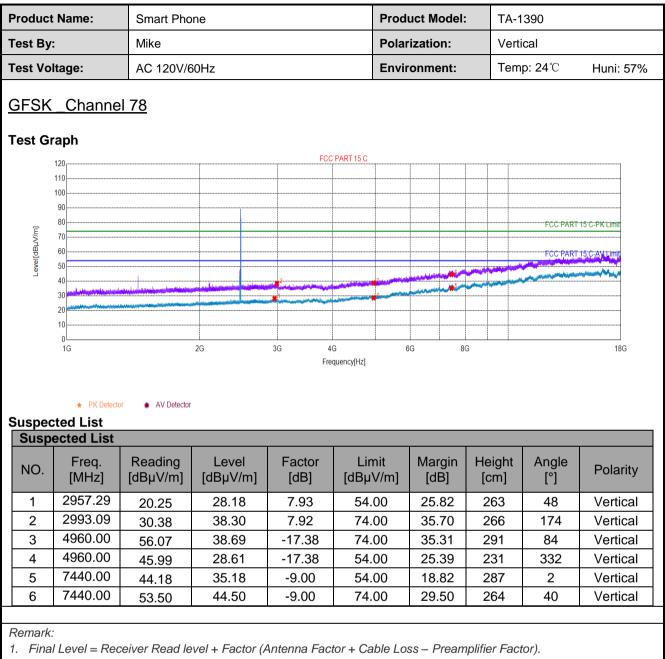




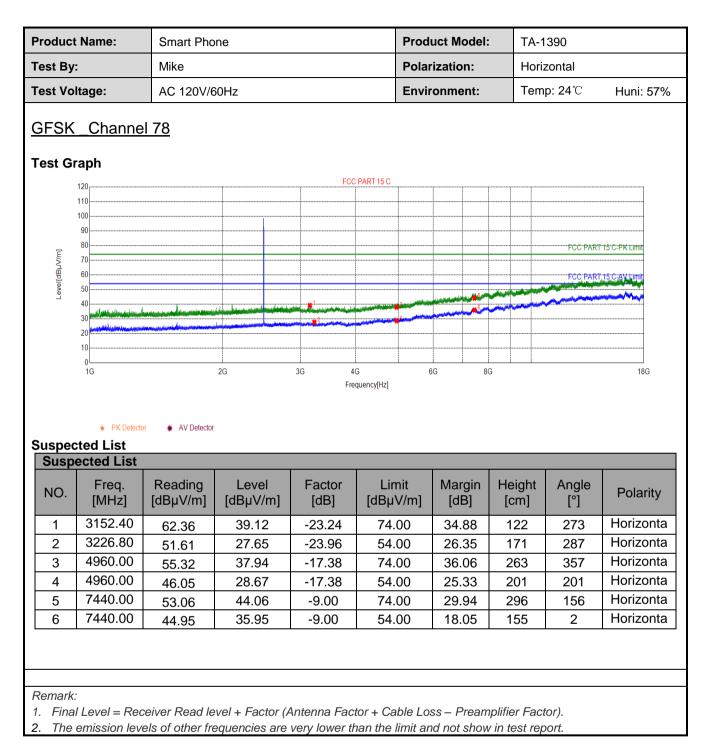














7 Test Setup Photo

Reference to the test setup photos:: BT & Wi-Fi & NII Setup Photos.

8 EUT Constructional Details

Reference to the External photo and Internal photo.

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