Report No: CCISE190608402

FCC REPORT

Applicant: SHEN ZHEN TOMSTAR TECHNOLOGY CO., LTD

Address of Applicant: Room 2110-2116, Huafeng International Commercial Building,

Xixiang, BaoAn district, Shenzhen, China

Equipment Under Test (EUT)

Product Name: SMART BAND

Model No.: TS08, TS03, TS05, TS07A

FCC ID: 2APD3TS08

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 24 Jun., 2019

Date of Test: 25 Jun., to 03 Jul., 2019

Date of report issued: 04 Jul., 2019

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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





2 Version

Version No.	Date	Description
00	04 Jul., 2019	Original

Tested by: Over her Date: 04 Jul., 2019

Test Engineer

Reviewed by: Date: 04 Jul., 2019

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

Pass: The EUT complies with the essential requirements in the standard.

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant:	SHEN ZHEN TOMSTAR TECHNOLOGY CO., LTD
Address:	Room 2110-2116, Huafeng International Commercial Building, Xixiang, BaoAn district, Shenzhen, China
Manufacturer:	Tomstar Industrial Limited
Address:	Room 2110-2116, Huafeng International Commercial Building, Xixiang, BaoAn district, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	SMART BAND
Model No.:	TS08, TS03, TS05, TS07A
Power supply:	Rechargeable Li-ion Battery DC3.7V, 70mAh
Remark:	Item No.: TS08, TS03, TS05, TS07A were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description		
Charging mode	Keep the EUT in Charging mode(Worst case for Conducted Emission)		
Working mode	Keep the EUT in Working mode(Worst case for Radiated Emission)		

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 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)	±4.54 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
Apple	SMART BAND	iPhone 6	N/A	N/A

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Unshielded	0.4m	EUT	PC/Adapter

5.8 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: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





5.10 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	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020

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	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

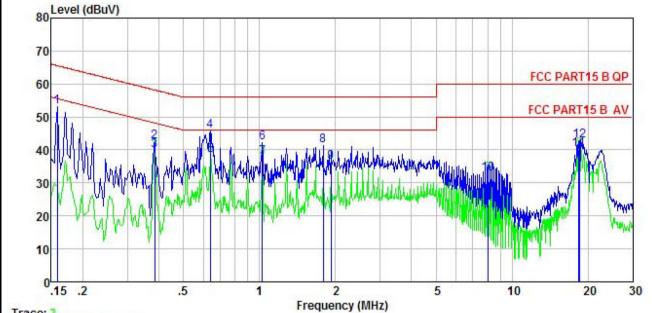
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107			
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Fraguenov rango (MHz)	Limit	(dBµV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
To do od o	* Decreases with the logarith	· · · · · · · · · · · · · · · · · · ·		
Test setup:	Reference Plan	ne		
	AUX Equipment E.U.T Receiver Remark: E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide 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 refers 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 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



Measurement data:

Product name:	SMART BAND	Product model:	TS08
Test by:	Carey	Test mode:	Charging mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



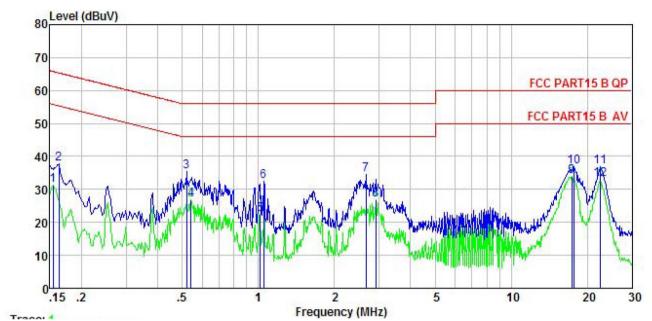
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u>11</u>	MHz	dBu∜	<u>dB</u>	<u>ab</u>	dBu₹	dBu∀	<u>ab</u>	
1	0.158	42.92	-0.44	10.77	53.25	65.56	-12.31	QP
2	0.385	32.22	-0.37	10.72	42.57	58.17	-15.60	QP
3	0.385	29.63	-0.37	10.72	39.98	48.17	-8.19	Average
4	0.637	35.23	-0.38	10.77	45.62	56.00	-10.38	QP
5	0.641	27.92	-0.38	10.77	38.31	46.00	-7.69	Average
6	1.027	31.82	-0.38	10.87	42.31	56.00	-13.69	QP
7	1.027	27.44	-0.38	10.87	37.93	46.00	-8.07	Average
8	1.790	30.64	-0.41	10.95	41.18	56.00	-14.82	QP
1 2 3 4 5 6 7 8 9 10	1.918	25.64	-0.41	10.95	36.18	46.00	-9.82	Average
10	8.062	22.48	-0.56	10.85	32.77	50.00		Average
11	18.426	29.98	-0.89	10.92	40.01	50.00		Average
12	18.524	32.73	-0.89	10.92	42.76	60.00	-17.24	

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	SMART BAND	Product model:	TS08
Test by:	Carey	Test mode:	Charging mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	₫BuV	<u>ab</u>		dBu₹	dBu∜	<u>ab</u>	
1	0.154	21.32	-0.68	10.78	31.42			Average
2	0.162	27.69	-0.68	10.77	37.78	65.34	-27.56	QP
3	0.521	25.21	-0.65	10.76	35.32	56.00	-20.68	QP
4	0.541	16.76	-0.65	10.76	26.87	46.00	-19.13	Average
5	1.016	12.08	-0.63	10.87	22.32			Average
6	1.049	22.30		10.88	32.55		-23.45	
2 3 4 5 6 7 8 9	2.664	24.41	-0.67	10.93	34.67		-21.33	- NAME
8	2.915	16.51		10.92	26.76			Average
9	17.383	24.21	-1.12	10.92	34.01			Average
10	17.755	27.12	-1.16	10.92	36.88		-23.12	
11	22.416	27.42	-1.43	10.90	36.89		-23.11	
12	22.535	23.54	-1.43	10.90	33.01			Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

						1
Test Requirement:	FCC Part 15 B S	ection 15.1	09			
Test Method:	ANSI C63.4:2014	1				
Test Frequency Range:	30MHz to 25000f	MHz				
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)	
Receiver setup:	Frequency	Detect		RBW	VBW	Remark
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
		RMS		1MHz	3MHz	Average Value
Limit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark
	30MHz-88N			40.0		Quasi-peak Value
	88MHz-216I 216MHz-960			43.5 46.0		Quasi-peak Value Quasi-peak Value
	960MHz-10			54.0		Quasi-peak Value Quasi-peak Value
	900101112-10	JI 1 <u>Z</u>		54.0		Average Value
	Above 1G	Hz		74.0		Peak Value
Test setup:	Below 1GHz Tum Table Ground Plane Above 1GHz	4m 4m 1			Antenna Tower Search Antenna Test eiver	
	AE (Turn			erence Plane	Antenna Tow	er er





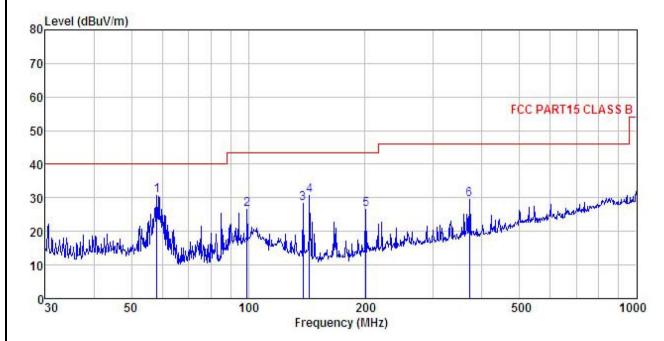
Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	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:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , Only report worse case 30MHz-6GHz.



Measurement Data:

Below 1GHz:

Product Name:	SMART BAND	Product model:	TS08	
Test By:	Carey	Test mode:	Working mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical	
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Hur	ni: 57%



	Freq		Antenna Factor				Limit Line		
3	MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1	58.203	47.69	11.47	1.37	29.78	30.75	40.00	-9.25	QP
2	99.180	41.95	12.32	1.95	29.53	26.69	43.50	-16.81	QP
2	138.387	45.53	9.61	2.38	29.28	28.24	43.50	-15.26	QP
	143.830	48.25	9.27	2.44	29.25	30.71	43.50	-12.79	QP
4 5 6	200.688	41.82	10.64	2.87	28.83	26.50	43.50	-17.00	QP
6	370.702								0.50 T. N. C. C.
63700	0.0.102	2000000			20.00				0.0 5.5

Remark

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



roduct Na	ame:	SMAR	T BAND			Produ	ct model:		TS08	
est By:		Carey				Test m	node:		Working mod	e
est Frequ	uency:	30 MH	z ~ 1 GHz			Polaria	zation:		Horizontal	
est Volta	ge:	AC 120	0V/60Hz			Enviro	nment:		Temp: 24℃	Huni: 57%
Lovo	l (dBuV/m)									
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20 10	50		1	100	Frequenc	200 y (MHz)		A. Marine	500	
20 10		Read	1 Antenna	100 Cable	Frequenc Preamp	200 y (MHz)	Limit	Over Limit	500	
20 10	Freq	Read/ Level	1 Antenna Factor	Cable Loss	Frequenc Preamp Factor	200 y (MHz)	Limit Line	Limit	500 Remark	
20 10		Read/ Level	1 Antenna	100 Cable	Frequenc Preamp Factor	200 y (MHz)	Limit		500 Remark	
10 0 30	Freq MHz 58.203	Read/ Level dBuV	1 Antenna Factor dB/m 11.47	Cable Loss dB	Frequenc Preamp Factor dB 29.78	200 y (MHz) Level dBuV/m 22.87	Limit Line dBuV/m 40.00	Limit 	500 Remark	
10 0 30	Freq MHz 58.203 143.830	Read/ Level dBuV	1 Antenna Factor ——dB/m	Cable Loss dB 1.37 2.44	Frequenc Preamp Factor dB 29.78 29.25	200 y (MHz) Level dBuV/m 22.87 31.76	Limit Line dBuV/m 40.00 43.50	Limit	500 Remark	
10 030	Freq MHz 58.203	Read/ Level dBuV 39.81 49.30	1 Antenna Factor — dB/m 11.47 9.27	Cable Loss dB	Frequenc Preamp Factor ————————————————————————————————————	200 y (MHz) Level dBuV/m 22.87 31.76 25.61 25.86	Limit Line dBuV/m 40.00 43.50 46.00	Limit 	500 Remark QP 1 QP 9 QP 1 QP	

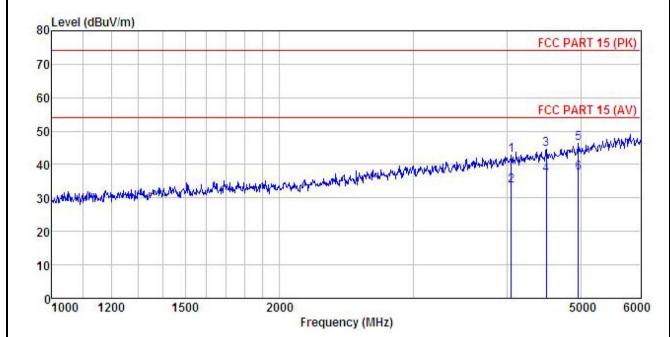
Remark:

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



Above 1GHz:

Product Name:	SMART BAND	Product model:	TS08	
Test By:	Carey	Test mode:	Working mode	
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical	
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Hu	ni: 57%



	Freq	ReadA Level				Level		Over Limit	Remark
	MHz	dBu∀		<u>ab</u>		$\overline{dB}\overline{uV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1	4045.367	45.88	30.31	6.18	41.81	42.77	74.00	-31.23	Peak
2	4045.367	36.82	30.31	6.18	41.81	33.71	54.00	-20.29	Average
3	4504.505	47.01	30.43	6.81	42.06	44.55	74.00	-29.45	Peak
4	4504.505	39.25	30.43	6.81	42.06	36.79	54.00	-17.21	Average
5	4962.120	47.51	31.32	6.91	41.87	46.36	74.00	-27.64	Peak
6	4962.120	38.76	31.32	6.91	41.87	37.61	54.00	-16.39	Average

Remark:

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



oduc	t Name:	SMAR	T BAND			Prod	uct mode	l:	TS08		
st By	y:	Carey				Test	mode:		Working mod	de	
st Fre	equency:	1 GHz	~ 6 GHz			Polar	ization:		Horizontal		
st Vo	oltage:	AC 12	0V/60Hz			Envir	Environment:		Temp: 24℃	Hui	ni: 57%
	evel (dBuV/m)										
80									FCC P	ART 15	(PK)
70											
60									FCC P	ART 15	(AV)
50									3	5	ANAMA
40								1	Manufathan 3	B	
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20-	1000 1200	150		2000	0					5000	6000
20-					0	ncy (MHz)					
20-	000 1200	150 ReadA	00 Interna	2000 Cable) Frequer Preamp	ncy (MHz)	Limit	Over			
20-	000 1200	150 ReadA	00	2000 Cable) Frequer Preamp	ncy (MHz)	Limit				
20-	000 1200	150 ReadA	00 Interna	2000 Cable) Frequer Preamp Factor	ncy (MHz)	Limit Line	Over			
30 4 20 10 0 11 1	000 1200 Freq MHz 3847.421	ReadA Level dBuV 47.14	oo Intenna Factor dB/m	Cable Loss dB	Frequer Preamp Factor dB 41.79	Level	Limit Line dBuV/m	Over Limit ———————————————————————————————————	Remark 		
30 4 20 10 0 11 1 2	Freq ————————————————————————————————————	150 Read& Level dBuV 47.14 39.16	oo Intenna Factor dB/m 29.80 29.80	2000 Cable Loss dB 6.09 6.09	Preamp Factor 	Level dBuV/m 43.44 35.46	Limit Line dBuV/m 74.00 54.00	Over Limit dB -30.56	Remark Peak Average		
30 4 20 10 0 11 1	Freq ————————————————————————————————————	ReadA Level dBuV 47.14	oo Intenna Factor dB/m	2000 Cable Loss dB 6.09 6.09	Preamp Factor 	Level dBuV/m 43.44 35.46	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit ———————————————————————————————————	Remark Peak Average Peak		

Remark

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