



Global United Technology Services Co., Ltd.

Report No.: GTS2023060101F01

TEST REPORT

Applicant: ComeBack Mobility,INC

Address of Applicant: 301E 103str., apart #6, NY, New York, United States 10029

Manufacturer: ComeBack Mobility,INC

Address of 301E 103str., apart #6, NY, New York, United States 10029

Manufacturer:

Factory: "FISON." LLC

Address of Factory: 11 Batumska str., of. 211, Dnipro, Ukrain

Equipment Under Test (EUT)

Product Name: Smart Crutch Tip

Model No.: Smart Crutch Tip

Trade Mark: ComeBack Mobility

FCC ID: 2A93S-SMARTTIP

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: June 06, 2023

Date of Test: June 06-13, 2023

Date of report issued: June 14, 2023

Test Result: PASS *

Authorized Signature:



TESTING NVLAP LAB CODE 600179-0

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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





2 Version

Version No.	Date	Description
00	June 14, 2023	Original

Prepared By:	Jysm Wu Project Engineer	Date:	June 14, 2023
Check By:	Shipping (m) Reviewer	Date:	June 14, 2023





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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel 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

Remarks:

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

2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	9kHz-30MHz	3.1dB	(1)		
Radiated Emission	30MHz-200MHz	3.8039dB	(1)		
Radiated Emission	200MHz-1GHz	3.9679dB	(1)		
Radiated Emission	1GHz-18GHz	4.29dB	(1)		
Radiated Emission	18GHz-40GHz	3.30dB	(1)		
AC Power Line Conducted 0.15MHz ~ 30MHz 3.44dB					
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		





5 General Information

5.1 General Description of EUT

Product Name:	Smart Crutch Tip
Model No.:	Smart Crutch Tip
Test sample(s) ID:	GTS2023060101-1
Sample(s) Status:	Engineer sample
S/N:	N/A
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Data Rate:	LE 1M PHY: 1 Mb/s
Modulation Type:	GFSK
Antenna Type:	MID SMT Antenna
Antenna Gain:	3.7dBi
Power Supply:	POWER ADAPTER
	MODEL:M4-050200A1-ETL
	INPUT:AC 100-240V, 50/60Hz 0.5A
	OUTPUT:DC 5.0V 2A
	Or
	DC 3.0V, 2100mAh for Li-ion battery
	The battery is charged via USB DC5V



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

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, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz





5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Test software provided by manufacturer
Power level setup	Default





6 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 23, 2021	June 22, 2024		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 14, 2023	April 13, 2024		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Coaxial Cable	GTS	N/A	GTS213	April 21, 2023	April 20, 2024		
8	Coaxial Cable	GTS	N/A	GTS211	April 21, 2023	April 20, 2024		
9	Coaxial cable	GTS	N/A	GTS210	April 21, 2023	April 20, 2024		
10	Coaxial Cable	GTS	N/A	GTS212	April 21, 2023	April 20, 2024		
11	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024		
12	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023		
13	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024		
14	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024		
15	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 30, 2022	Oct. 29, 2023		
16	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 30, 2022	Oct. 29, 2023		
17	FSV-Signal Analyzer (10Hz- 40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024		
18	Amplifier	1	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024		
19	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS668	Dec. 20,2022	Dec.19,2023		



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Con	Conducted Emission								
Item Test Equipment		Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024			
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 14, 2023	April 13, 2024			
4	Coaxial Cable	GTS	N/A GTS227		N/A	N/A			
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
6	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 18, 2023	April 17, 2024			
7	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024			
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 14, 2023	April 13, 2024			
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 14, 2023	April 13, 2024			
10	Antenna end assembly	Weinschel	1870A	GTS560	April 14, 2023	April 13, 2024			

RF C	RF Conducted Test:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 14, 2023	April 13, 2024			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024			
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 14, 2023	April 13, 2024			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024			
9	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 04, 2022	Nov. 03, 2023			

G	en	eral used equipment:	uipment:								
Ite	m Test Equipment		Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1		Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 18, 2023	April 17, 2024				
2	2	Barometer	KUMAO	SF132	GTS647	April 19, 2023	April 18, 2024				





7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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

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

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

E.U.T Antenna:

The antenna is MID SMT antenna, reference to the appendix II for details





7.2 Conducted Emissions

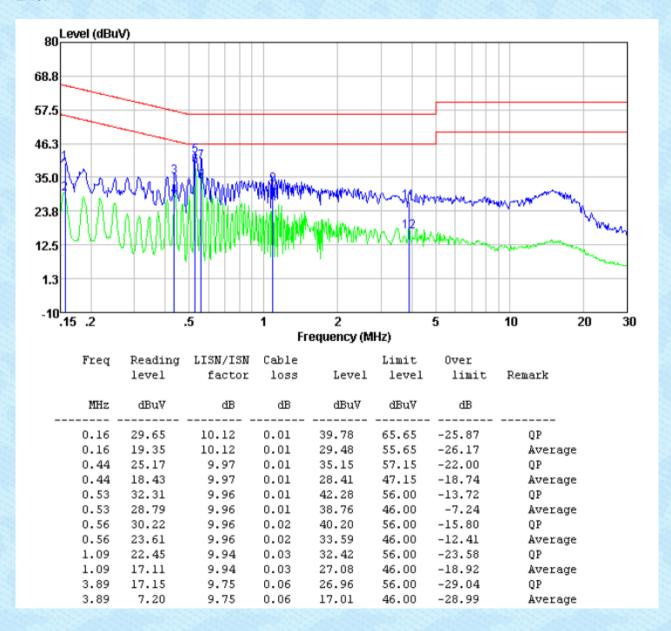
7.2 Oonducted Emission									
Test Requirement:	FCC Part15 C Section 15.207	7							
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	150KHz to 30MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto							
Limit:	Frequency range (MHz)	Limit	(dBuV)						
		Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5 5-30	56 60	46						
	* Decreases with the logarithr		30						
Test setup:	Reference Plane								
Test procedure:	LISN Remark E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line impedence Stabilization Network Test table height=0 8m 1. The E.U.T and simulators are connected to the main power through line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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 chang according to ANSI C63.10:2013 on conducted measurement.								
rest procedure.									
Test Instruments:	Refer to section 6.0 for details	3							
Test mode:	Refer to section 5.2 for details	3							
Test environment:	Temp.: 25 °C Hur	nid.: 52%	Press.: 1012mbar						
Test voltage:	AC 120V 60Hz								
Test results:	Pass								





Measurement data:

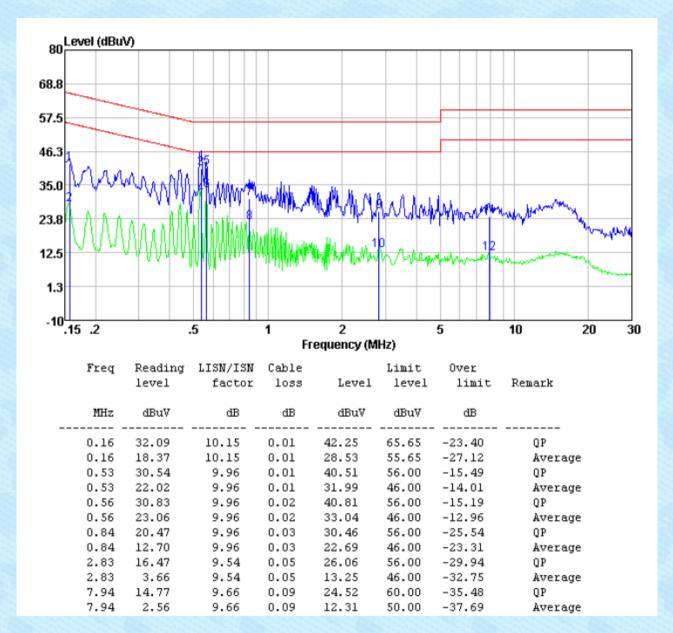
Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of it **Line:**







Neutral:



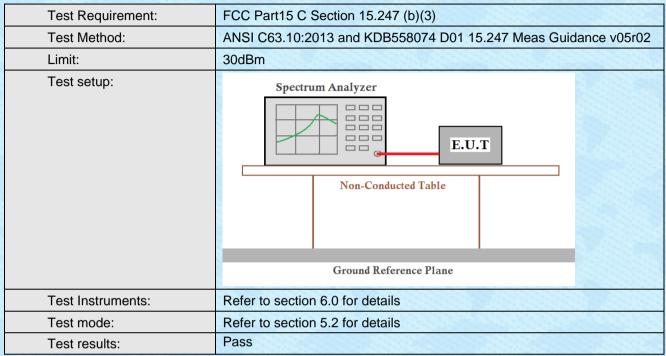
Notes

- 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





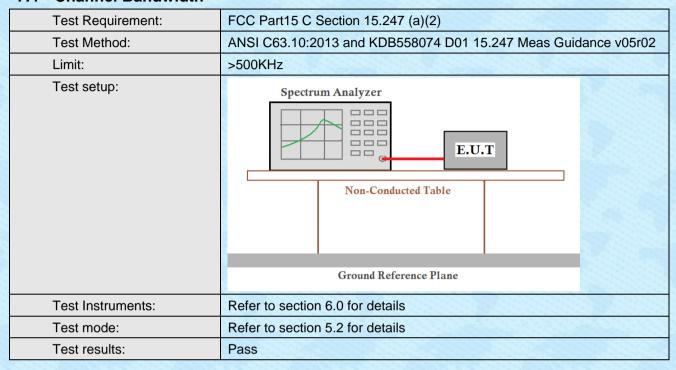
7.3 Conducted Output Power







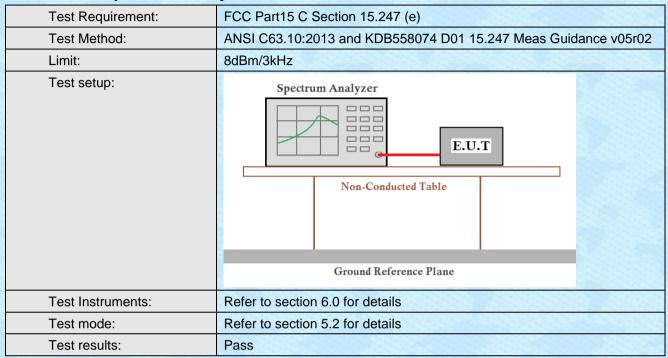
7.4 Channel Bandwidth







7.5 Power Spectral Density







7.6 Spurious Emission in Non-restricted & restricted Bands

7.6.1 Conducted Emission Method

Toot Descripements	ECC Double C Continue AF 0.47 (d)						
Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02						
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 30 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 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

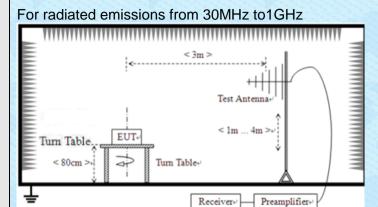




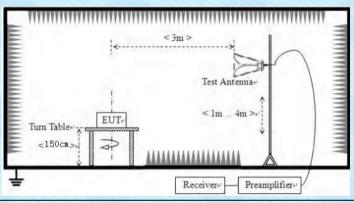
7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section	on 15.	209					
Test Method:	ANSI C63.10:2013				196			
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: 3r	m					
Receiver setup:	Frequency	De	etector	RB\	W VBW		Value	
	9KHz-150KHz	Qua	asi-peak	200H	Ηz	600Hz	Quasi-peak	
	150KHz-30MHz Qu		asi-peak	9KH	lz	30KHz	Quasi-peak	
	30MHz-1GHz Qua		asi-peak	120K	Hz	300KHz	Quasi-peak	
	Abovo 1CHz	Above 1GHz Pea		1MF	łz	3MHz	Peak	
	Above 1GHZ			1MF	łz	10Hz	Average	
Limit:	Frequency							
	0.009MHz-0.490M	lHz	2400/F(K	(Hz)	PK	/QP/AV	300m	
	0.490MHz-1.705M	lHz	24000/F(H	(Hz)	QP		30m	
	1.705MHz-30MH	lz	30		QP		30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz	Z	150			QP		
	216MHz-960MH	Z	200		QP		3m	
	960MHz-1GHz		500		QP		Sili	
	Above 1GHz		500		Average			
	710070 10112		5000			Peak		
Test setup:	For radiated emiss	sions f	from 9kHz	z to 30	MH:	Z		
	Turn Table EUT* Som > Im Im Receiver*							





For radiated emissions above 1GHz



Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:

Refer to section 6.0 for details

Test mode:

Refer to section 5.2 for details





Re	port	No ·	GTS20	23060	101F0	1
110	POIL		0.020		10110	, ,

Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V					
Test results:	Pass					

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

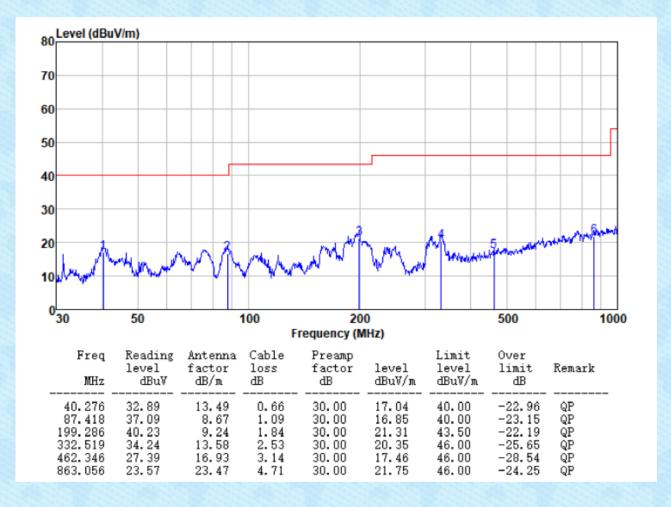
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





■ Below 1GHz

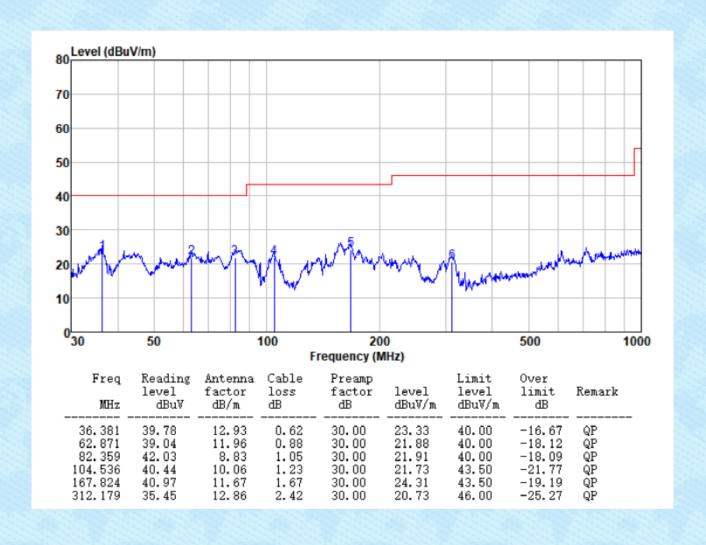
Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of it **Horizontal:**







Vertical:







■ Above 1GHz

■ Unwanted Emissions in Non-restricted Frequency Bands

Unwanted Emissions in Non-restricted Frequency Bands												
Test channe	l :			Lowest ch	nannel							
Peak value:												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization				
4804.00	36.23	31.78	8.60	32.09	44.52	74.00	-29.48	Vertical				
7206.00	30.78	36.15	11.65	32.00	46.58	74.00	-27.42	Vertical				
9608.00	31.10	37.95	14.14	31.62	51.57	74.00	-22.43	Vertical				
4804.00	40.50	31.78	8.60	32.09	48.79	74.00	-25.21	Horizontal				
7206.00	32.75	36.15	11.65	32.00	48.55	74.00	-25.45	Horizontal				
9608.00	29.78	37.95	14.14	31.62	50.25	74.00	-23.75	Horizontal				
Average val	ue:		教会会									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization				
4804.00	24.82	31.78	8.60	32.09	33.11	54.00	-20.89	Vertical				
7206.00	19.69	36.15	11.65	32.00	35.49	54.00	-18.51	Vertical				
9608.00	19.09	37.95	14.14	31.62	39.56	54.00	-14.44	Vertical				
4804.00	29.17	31.78	8.60	32.09	37.46	54.00	-16.54	Horizontal				
7206.00	21.84	36.15	11.65	32.00	37.64	54.00	-16.36	Horizontal				
9608.00	19.00	37.95	14.14	31.62	39.47	54.00	-14.53	Horizontal				



Test channe	l:			Middle ch	Middle channel				
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	36.72	31.85	8.67	32.12	45.12	74.00	-28.88	Vertical	
7320.00	31.10	36.37	11.72	31.89	47.30	74.00	-26.70	Vertical	
9760.00	31.39	38.35	14.25	31.62	52.37	74.00	-21.63	Vertical	
4880.00	41.08	31.85	8.67	32.12	49.48	74.00	-24.52	Horizontal	
7320.00	33.12	36.37	11.72	31.89	49.32	74.00	-24.68	Horizontal	
9760.00	30.12	38.35	14.25	31.62	51.10	74.00	-22.90	Horizontal	
Average val	ue:		F						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	25.22	31.85	8.67	32.12	33.62	54.00	-20.38	Vertical	
7320.00	19.96	36.37	11.72	31.89	36.16	54.00	-17.84	Vertical	
9760.00	19.33	38.35	14.25	31.62	40.31	54.00	-13.69	Vertical	
4880.00	29.62	31.85	8.67	32.12	38.02	54.00	-15.98	Horizontal	
7320.00	22.15	36.37	11.72	31.89	38.35	54.00	-15.65	Horizontal	
9760.00	19.29	38.35	14.25	31.62	40.27	54.00	-13.73	Horizontal	





Test channe	l:			Highest c	Highest channel				
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	36.85	31.93	8.73	32.16	45.35	74.00	-28.65	Vertical	
7440.00	31.19	36.59	11.79	31.78	47.79	74.00	-26.21	Vertical	
9920.00	31.46	38.81	14.38	31.88	52.77	74.00	-21.23	Vertical	
4960.00	41.24	31.93	8.73	32.16	49.74	74.00	-24.26	Horizontal	
7440.00	33.21	36.59	11.79	31.78	49.81	74.00	-24.19	Horizontal	
9920.00	30.21	38.81	14.38	31.88	51.52	74.00	-22.48	Horizontal	
Average val	ue:		Print 3						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	25.36	31.93	8.73	32.16	33.86	54.00	-20.14	Vertical	
7440.00	20.06	36.59	11.79	31.78	36.66	54.00	-17.34	Vertical	
9920.00	19.41	38.81	14.38	31.88	40.72	54.00	-13.28	Vertical	
4960.00	29.79	31.93	8.73	32.16	38.29	54.00	-15.71	Horizontal	
7440.00	22.26	36.59	11.79	31.78	38.86	54.00	-15.14	Horizontal	
9920.00	19.39	38.81	14.38	31.88	40.70	54.00	-13.30	Horizontal	

Remarks:

- 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.



GTS

Report No.: GTS2023060101F01

■ Unwanted Emissions in Restricted Frequency Bands

Test channel: Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	47.58	27.14	2.81	38.64	38.89	74.00	-35.11	Horizontal
2390.00	51.27	27.37	2.91	38.84	42.71	74.00	-31.29	Horizontal
2310.00	47.89	27.14	2.81	38.64	39.20	74.00	-34.80	Vertical
2390.00	52.90	27.37	2.91	38.84	44.34	74.00	-29.66	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	36.76	27.14	2.81	38.64	28.07	54.00	-25.93	Horizontal
2390.00	38.41	27.37	2.91	38.84	29.85	54.00	-24.15	Horizontal
2310.00	37.01	27.14	2.81	38.64	28.32	54.00	-25.68	Vertical
2390.00	39.15	27.37	2.91	38.84	30.59	54.00	-23.41	Vertical

Test channel: Highest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.84	27.82	2.99	39.05	41.60	74.00	-32.40	Horizontal
2500.00	48.28	27.70	3.01	39.10	39.89	74.00	-34.11	Horizontal
2483.50	51.34	27.82	2.99	39.05	43.10	74.00	-30.90	Vertical
2500.00	49.64	27.70	3.01	39.10	41.25	74.00	-32.75	Vertical

Average value:

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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.74	27.82	2.99	39.05	29.50	54.00	-24.50	Horizontal
2500.00	37.33	27.70	3.01	39.10	28.94	54.00	-25.06	Horizontal
2483.50	37.86	27.82	2.99	39.05	29.62	54.00	-24.38	Vertical
2500.00	37.63	27.70	3.01	39.10	29.24	54.00	-24.76	Vertical

Remarks:

- 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.





8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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