

FCC Test Report

Report No.: AGC08181190602FE02

FCC ID : 2AR5EID115U

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Fitness Tracker

BRAND NAME : LETSCOM, Letsfit

MODEL NAME : ID115U

APPLICANT : SHENZHEN MIFANG NETWORK TECHNOLOGY CO., LTD.

DATE OF ISSUE : July 24, 2019

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 24, 2019	Valid	Initial Release



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1. VERIFICATION OF COMPLIANCE

Applicant	SHENZHEN MIFANG NETWORK TECHNOLOGY CO., LTD.
Address	305, No.8 BLDG., SUOLING INDUSTRIAL ZONE XIKENG, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Manufacturer	SHENZHEN MIFANG NETWORK TECHNOLOGY CO., LTD.
Address	305, No.8 BLDG., SUOLING INDUSTRIAL ZONE XIKENG, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Factory	SHENZHEN MIFANG NETWORK TECHNOLOGY CO., LTD.
Address	305, No.8 BLDG., SUOLING INDUSTRIAL ZONE XIKENG, GUANLAN, LONGHUA, SHENZHEN, GUANGDONG, CHINA
Product Designation	Fitness Tracker
Brand Name	LETSCOM, Letsfit
Test Model	ID115U
Date of test	July 03, 2019 to July 22, 2019
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Tested By



John Zeng(Zeng Weiqiang)

July 22, 2019

Reviewed By



Max Zhang(Zhang Yi)

July 24, 2019

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer

July 24, 2019



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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a “Fitness Tracker”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-0.143dBm(Max)
Bluetooth Version	V4.0
Modulation	BR ☐ GFSK, EDR ☐ π /4-DQPSK, ☐ 8DPSK BLE ☒ GFSK 1Mbps ☐ GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	-7.42dBi
Hardware Version	V1.1
Software Version	V31
Power Supply	DC 3.7V by battery or DC 5V by adapter
Note: The EUT doesn't support BR/EDR.	

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ



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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AR5EID115U** filing to comply with the FCC Part 15.247 requirements.

2.4 TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %



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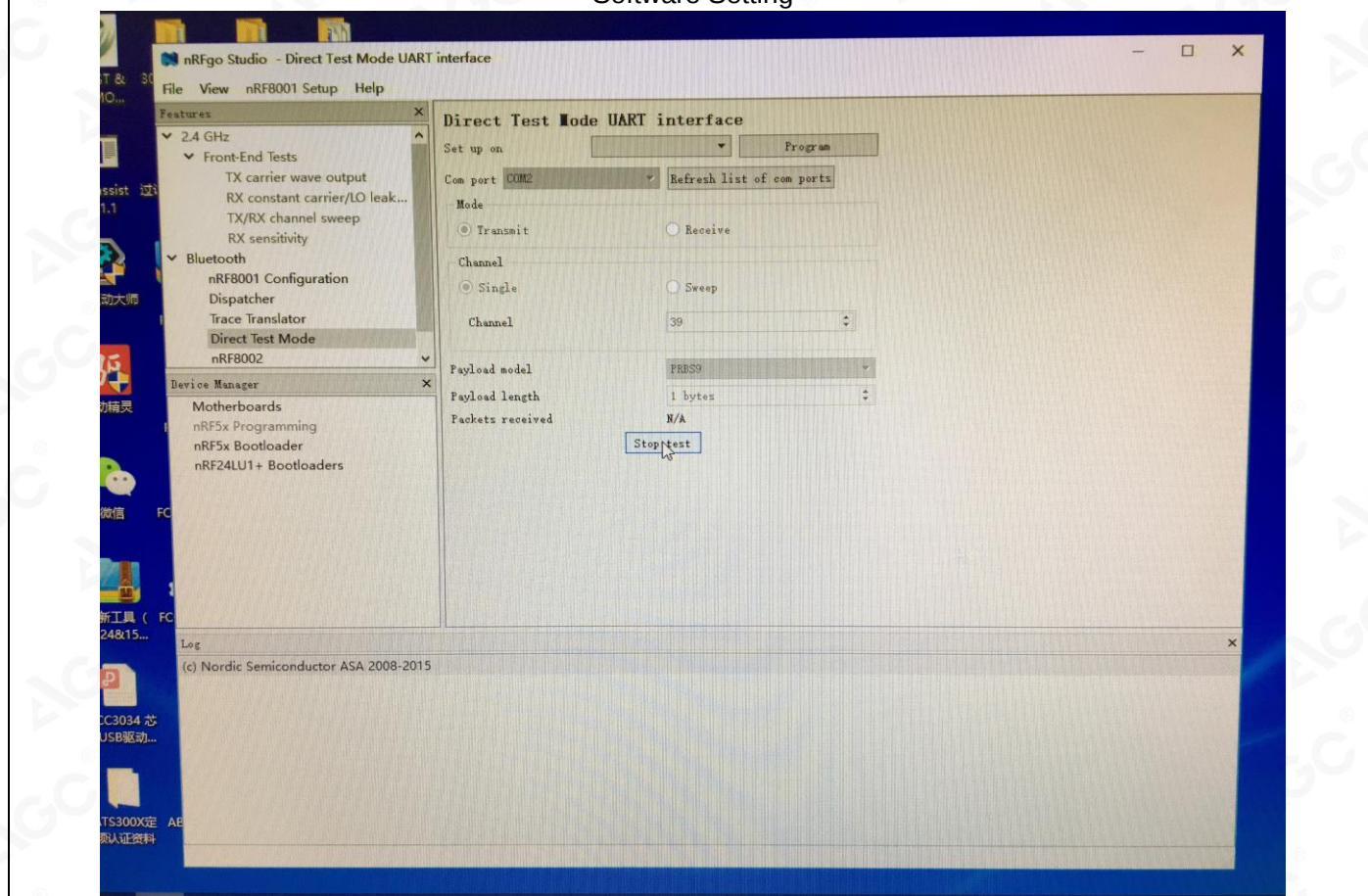
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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

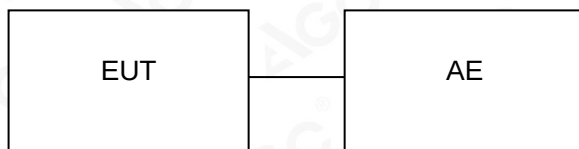
- Note:**
1. Only the result of the worst case was recorded in the report, if no other cases.
 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
 4. The test software is “nRFgo Studio” which can sent the EUT into individual test modes.

Software Setting



5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Fitness Tracker	ID115U	2AR5EID115U	EUT
2	Adapter	ZL-PCB0100020502000	DC 5V/2A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 28, 2018	Aug. 27, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019



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7. PEAK OUTPUT POWER

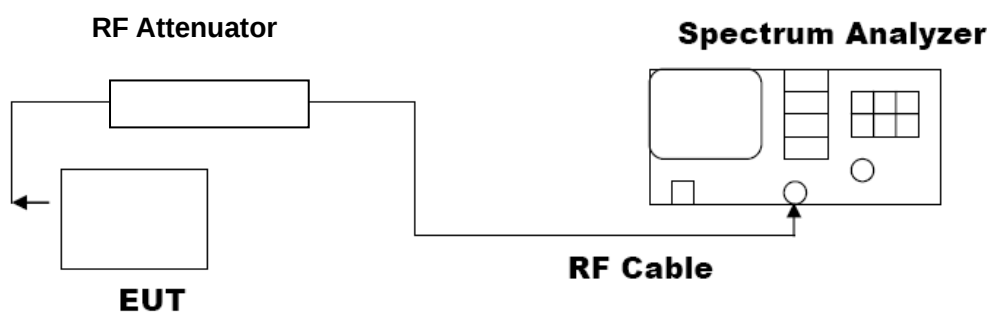
7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. $RBW \geq DTS$ bandwidth
3. $VBW \geq 3 \times RBW$.
4. $SPAN \geq VBW$.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

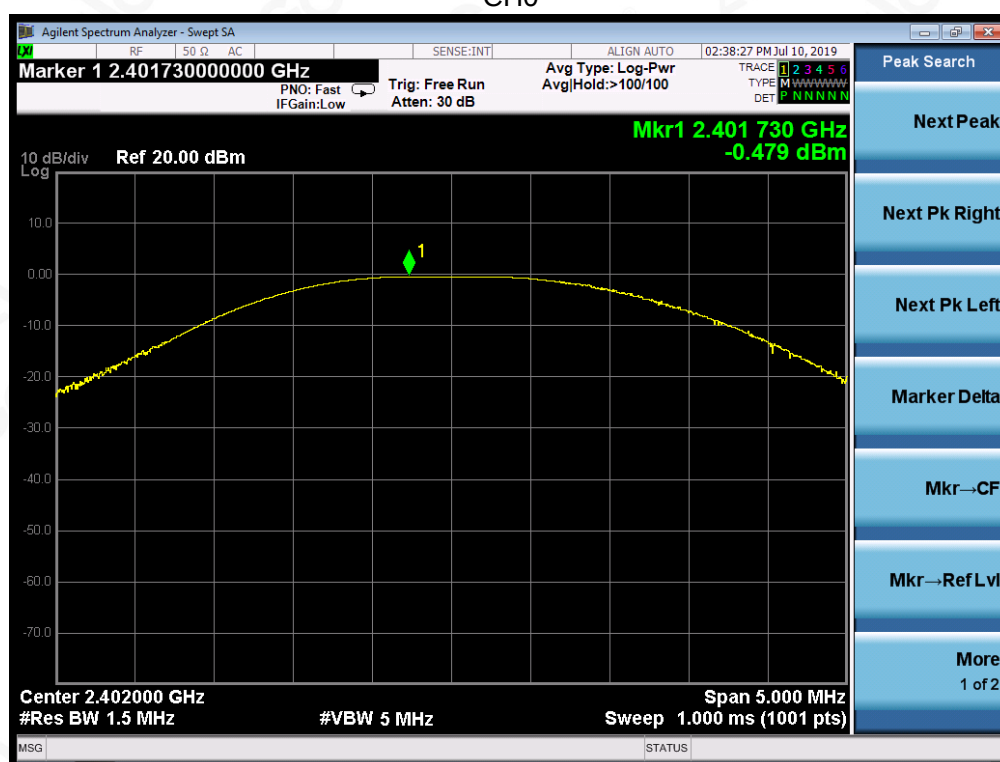
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-0.479	30	Pass
2.440	-0.143	30	Pass
2.480	-0.148	30	Pass

CH0



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Agilent Spectrum Analyzer - Swept SA

RF 50.0 AC SENSE:INT ALIGN AUTO 02:39:12 PM Jul 10, 2019

Marker 1 2.440220000000 GHz

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Avg Type: Log-Pwr Avg/Hold: >100/100

TRACE 1 2 3 4 5 6

TYPE M M M M M M M M

DET P N N N N N N

10 dB/div Log Ref 20.00 dBm

Mkr1 2.440 220 GHz -0.143 dBm

Center 2.440000 GHz Span 5.000 MHz

#Res BW 1.5 MHz #VBW 5 MHz Sweep 1.000 ms (1001 pts)

MSG STATUS

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr->CF

Mkr->Ref Lvl

More

1 of 2

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.479710000000 GHz

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Avg Type: Log-Pwr Avg/Hold: >100/100

02:39:23 PM Jul 10, 2019

TRACE 1 2 3 4 5 6
TYPE M W W W W W W
DET P N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr→CF

Mkr→Ref Lvl

More
1 of 2

10 dB/div Ref 20.00 dBm

Log

Center 2.480000 GHz Span 5.000 MHz

#Res BW 1.5 MHz #VBW 5 MHz Sweep 1.000 ms (1001 pts)

MSG STATUS



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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

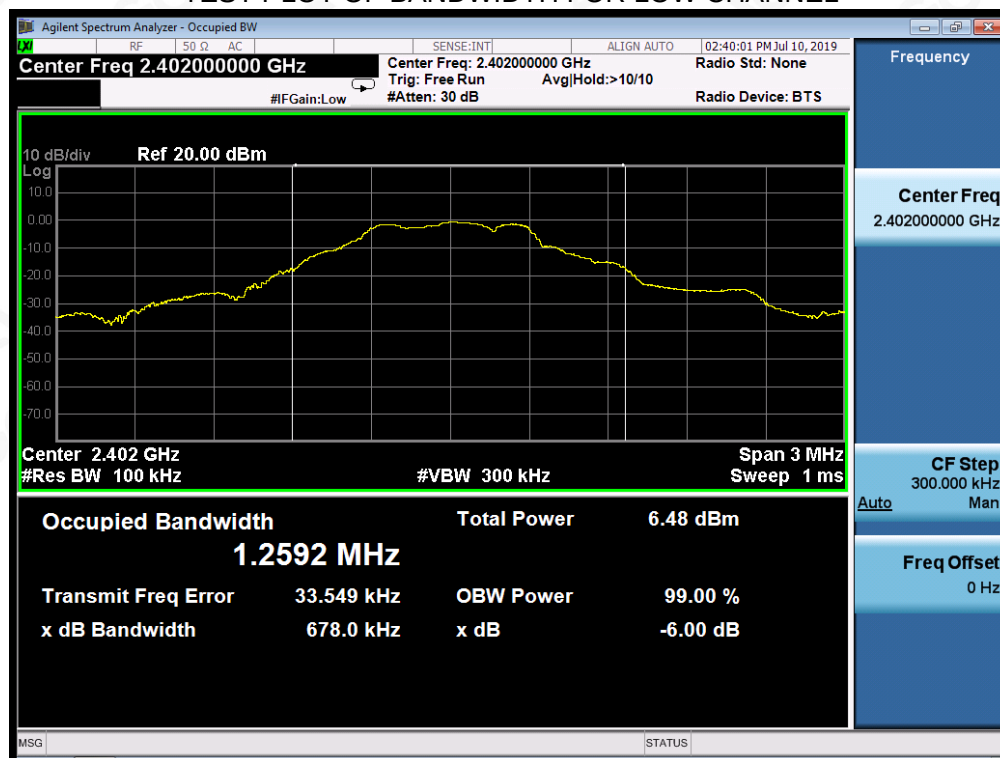
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	678.0	PASS
	Middle Channel	689.4	PASS
	High Channel	673.0	PASS

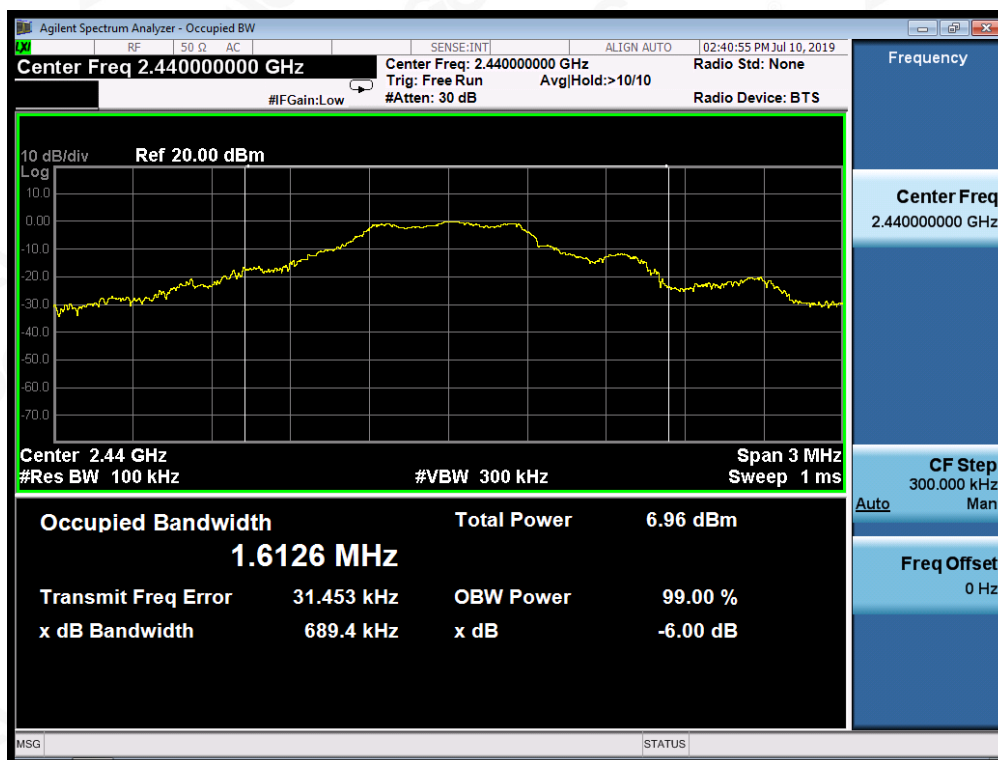
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



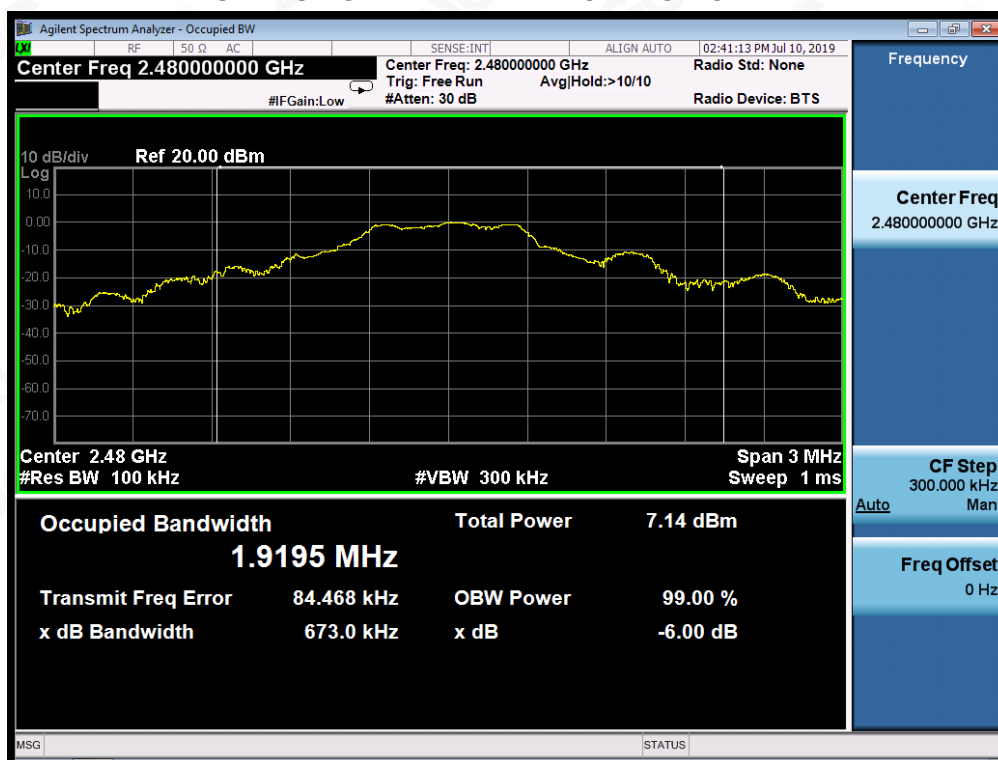
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS



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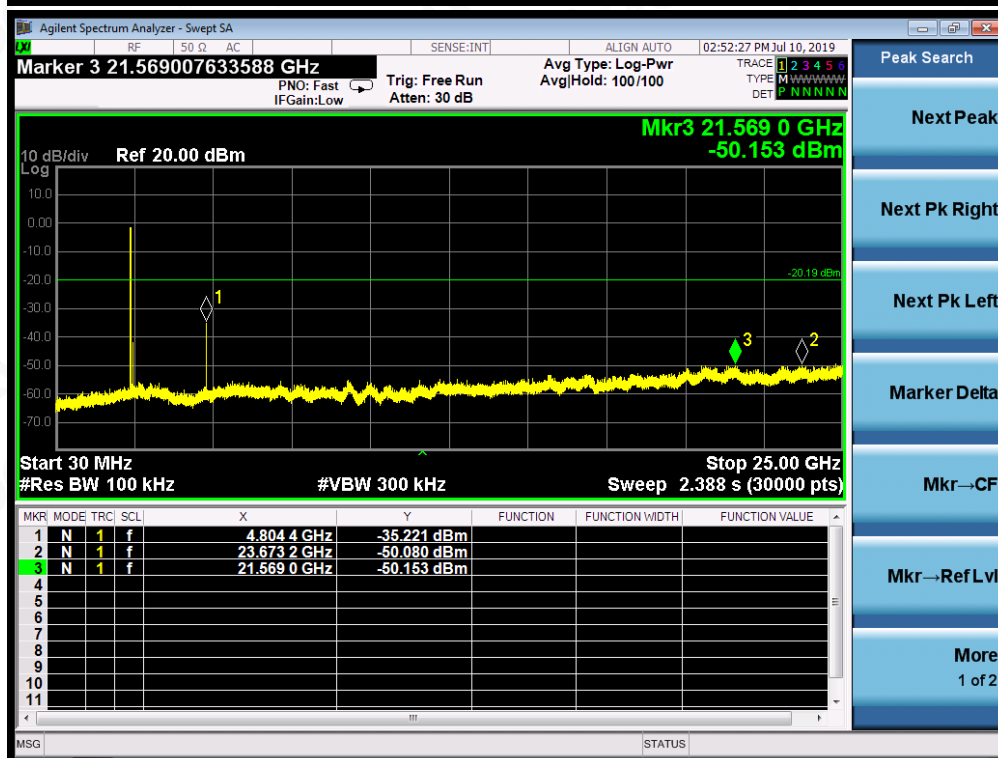
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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL



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The image shows the front panel of an Agilent Spectrum Analyzer in Swept SA mode. The main display is a frequency spectrum plot with a yellow trace. A green diamond marker labeled '1' is placed on the peak of the signal at 2.440025 GHz. The peak power is 0.131 dBm. The plot has a 10 dB/div vertical scale and a 5.000 MHz horizontal span. The resolution bandwidth (RBW) is 100 kHz, and the video bandwidth (VBW) is 300 kHz. The sweep time is 1.000 ms (1001 pts). The center frequency is 2.440000 GHz. The display also shows various settings like PNO: Wide, IF Gain: Low, Trig: Free Run, Atten: 30 dB, and alignment settings.

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.440025000000 GHz

PNO: Wide IF Gain: Low

Trig: Free Run Atten: 30 dB

Avg Type: Log-Pwr Avg/Hold: >100/100

02:48:23 PM Jul 10, 2019

TRACE 1 2 3 4 5 6

TYPE M M M M M M M M

DET P N N N N N N

10 dB/div Ref 20.00 dBm

Center 2.440000 GHz Span 5.000 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

MSG STATUS

Peak Search

Next Peak

Next Pk Right

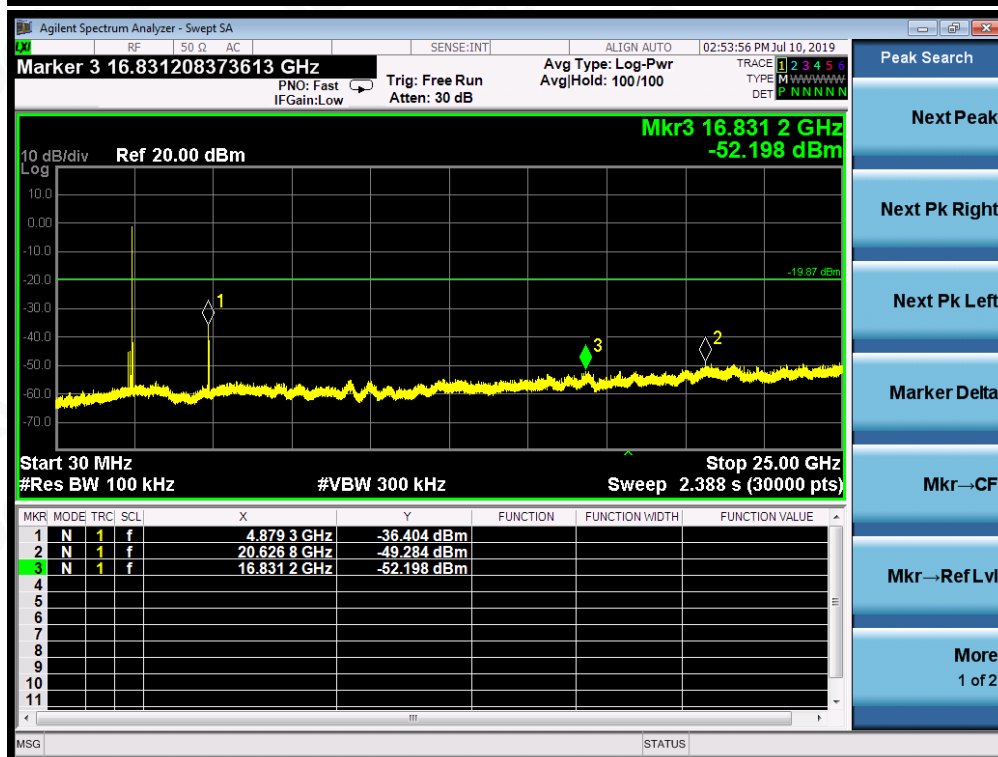
Next Pk Left

Marker Delta

Mkr→CF

Mkr→Ref Lvl

More 1 of 2



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GFSK MODULATION IN HIGH CHANNEL



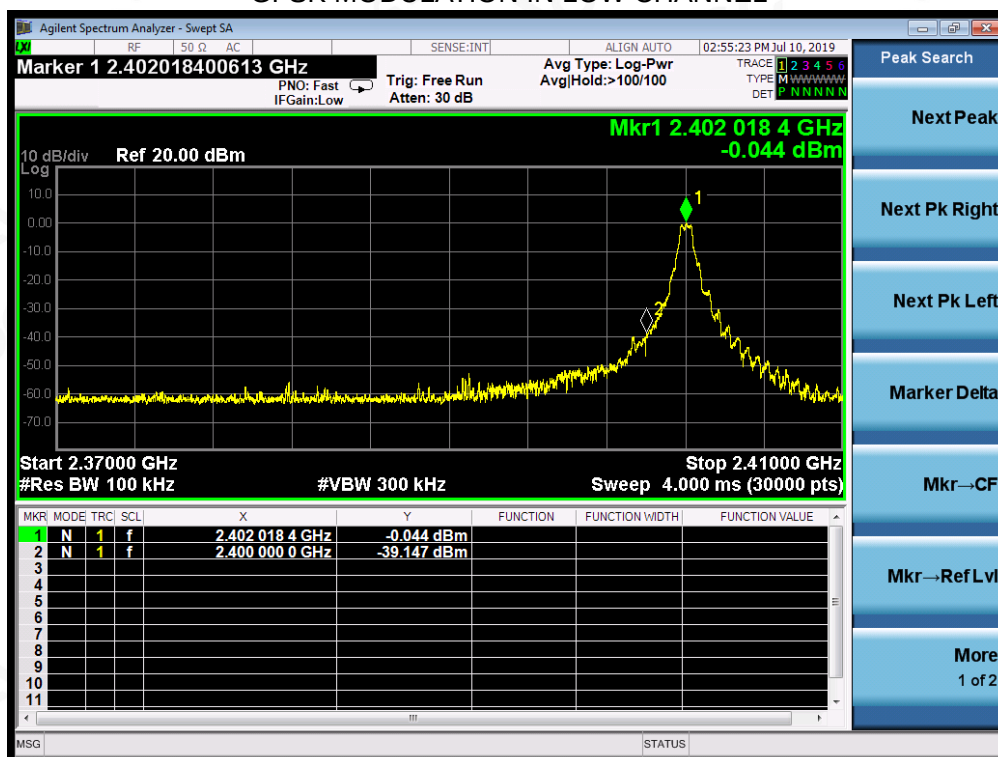
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



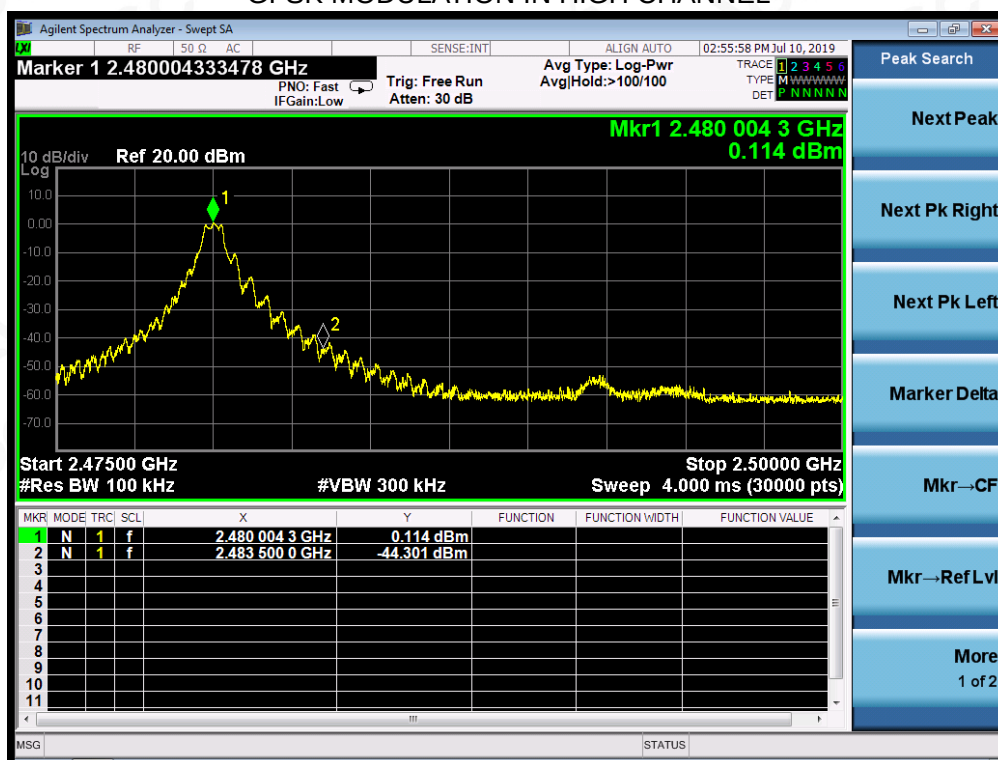
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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-14.155	8	Pass
Middle Channel	-14.443	8	Pass
High Channel	-14.352	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



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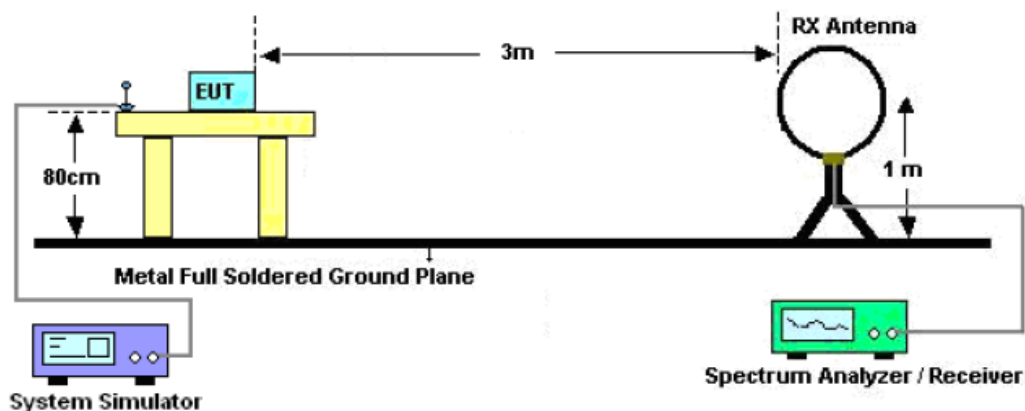
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

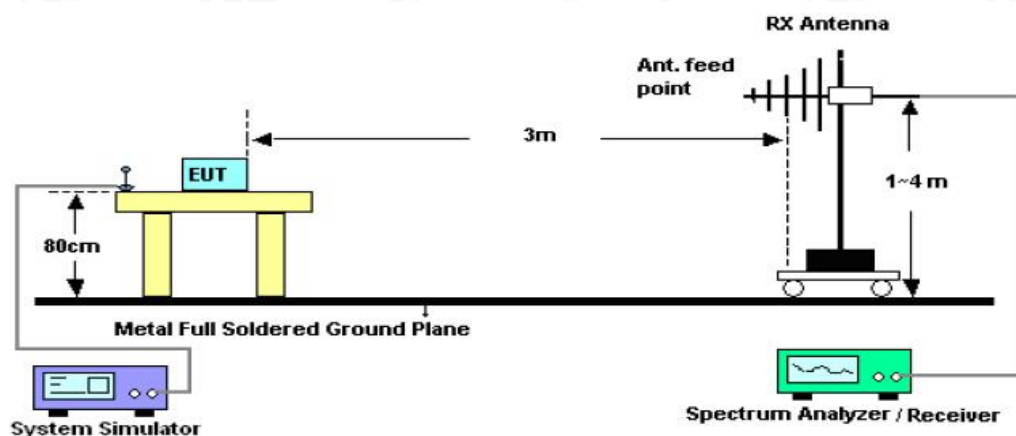
Service Hotline:400 089 2118

11.2. TEST SETUP

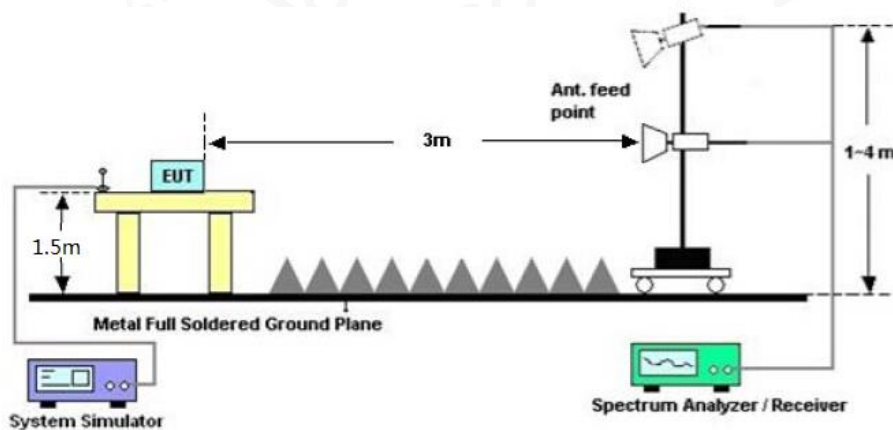
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission.

The test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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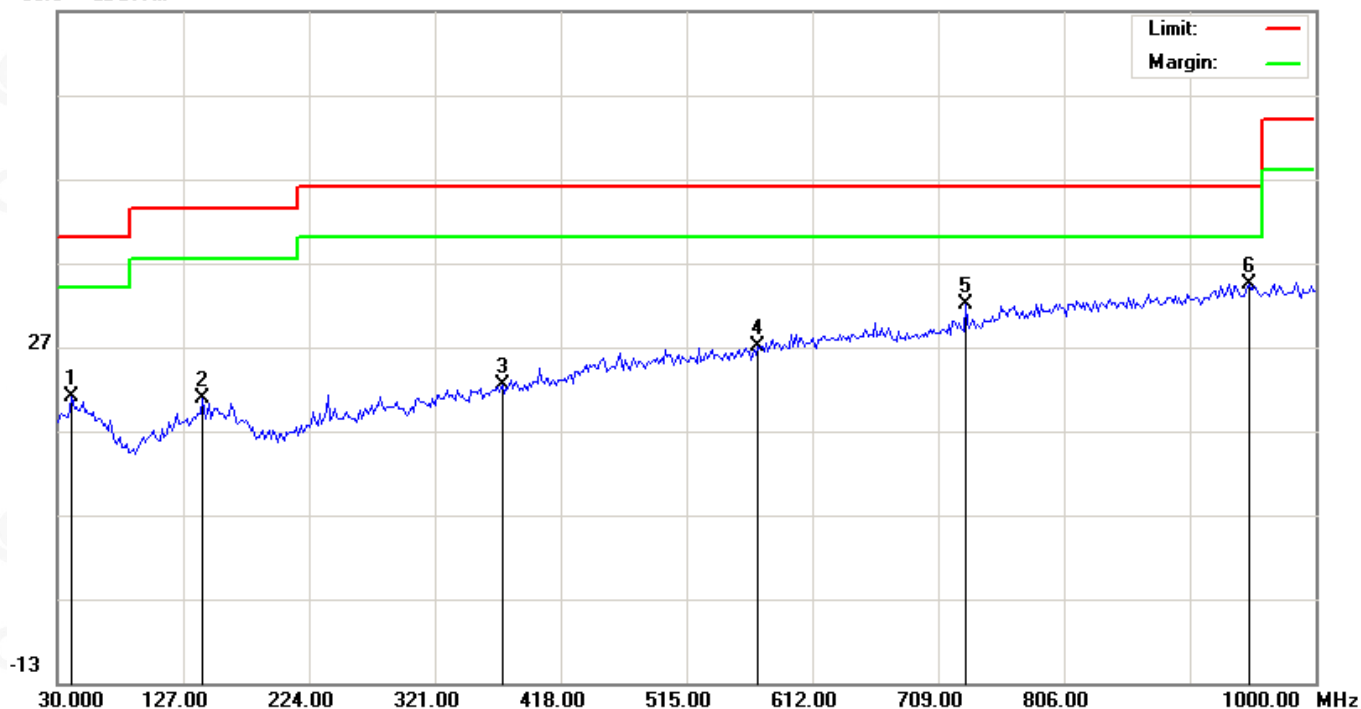
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

RADIATED EMISSION BELOW 1GHZ

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

66.9 dBuV/m



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		41.3167	0.89	20.04	20.93	40.00	-19.07	peak			
2		141.5500	1.64	19.23	20.87	43.50	-22.63	peak			
3		372.7333	0.45	22.02	22.47	46.00	-23.53	peak			
4		569.9667	0.67	26.36	27.03	46.00	-18.97	peak			
5		730.0167	3.12	28.83	31.95	46.00	-14.05	peak			
6	*	948.2667	2.29	32.12	34.41	46.00	-11.59	peak			

RESULT: PASS


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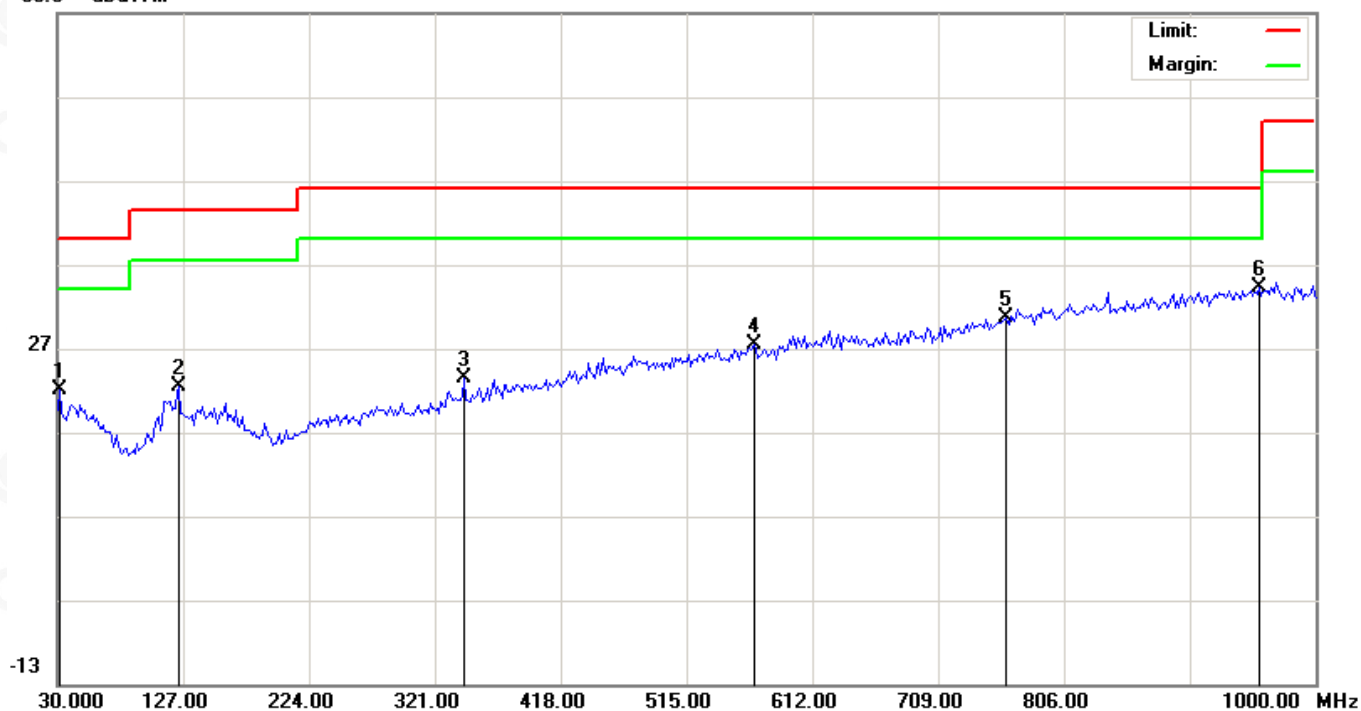
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Service Hotline:400 089 2118

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

66.9 dBuV/m



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		31.6167	3.83	18.22	22.05	40.00	-17.95	peak			
2		123.7667	4.11	18.21	22.32	43.50	-21.18	peak			
3		343.6333	2.45	21.00	23.45	46.00	-22.55	peak			
4		566.7333	1.07	26.30	27.37	46.00	-18.63	peak			
5		760.7333	0.99	29.52	30.51	46.00	-15.49	peak			
6	*	956.3500	2.03	32.18	34.21	46.00	-11.79	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 2 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	48.89	0.08	48.97	74	-25.03	peak
4804.000	43.58	0.08	43.66	54	-10.34	AVG
7206.000	47.89	2.21	50.1	74	-23.9	peak
7206.000	42.97	2.21	45.18	54	-8.82	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	47.78	0.08	47.86	74	-26.14	peak
4804.000	42.98	0.08	43.06	54	-10.94	AVG
7206.000	46.86	2.21	49.07	74	-24.93	peak
7206.000	41.78	2.21	43.99	54	-10.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	48.92	0.14	49.06	74	-24.94	peak
4880.000	42.85	0.14	42.99	54	-11.01	AVG
7320.000	47.67	2.36	50.03	74	-23.97	peak
7320.000	41.79	2.36	44.15	54	-9.85	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	47.54	0.14	47.68	74	-26.32	peak
4880.000	42.69	0.14	42.83	54	-11.17	AVG
7320.000	46.78	2.36	49.14	74	-24.86	peak
7320.000	42.66	2.36	45.02	54	-8.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	48.34	0.22	48.56	74	-25.44	peak
4960.000	42.45	0.22	42.67	54	-11.33	AVG
7440.000	47.57	2.64	50.21	74	-23.79	peak
7440.000	41.48	2.64	44.12	54	-9.88	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	47.28	0.22	47.5	74	-26.5	peak
4960.000	40.99	0.22	41.21	54	-12.79	AVG
7440.000	46.49	2.64	49.13	74	-24.87	peak
7440.000	39.89	2.64	42.53	54	-11.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.
The “Factor” value can be calculated automatically by software of measurement system.



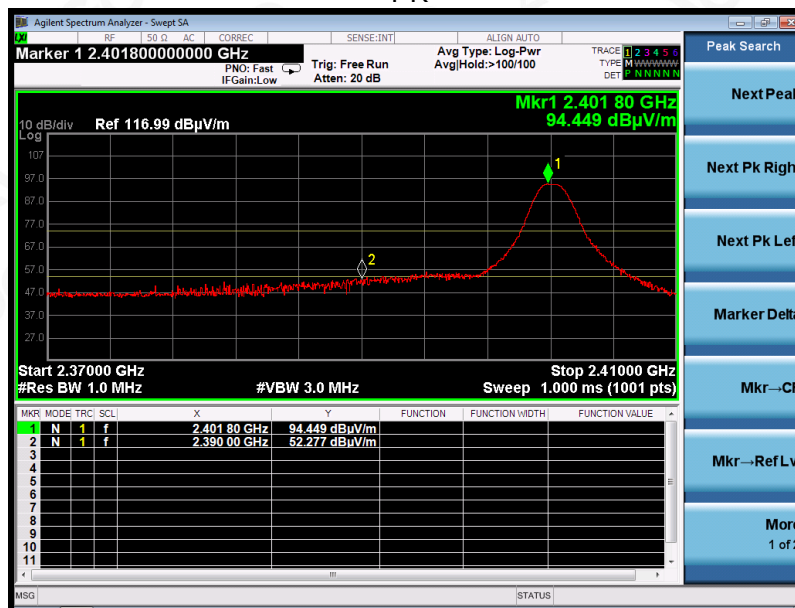
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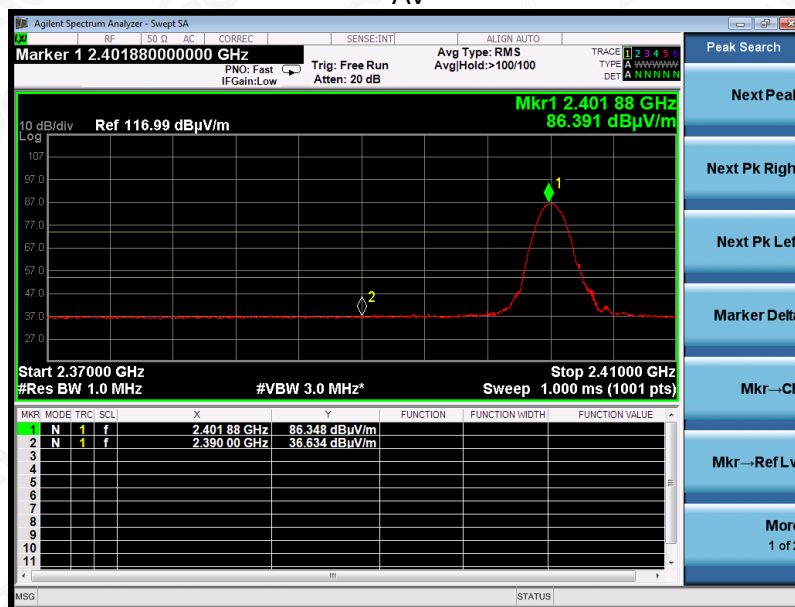
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS



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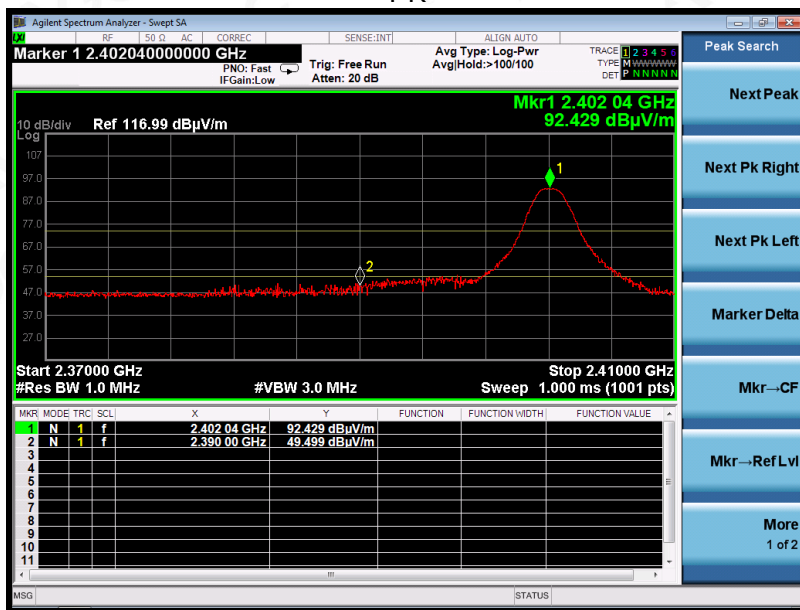
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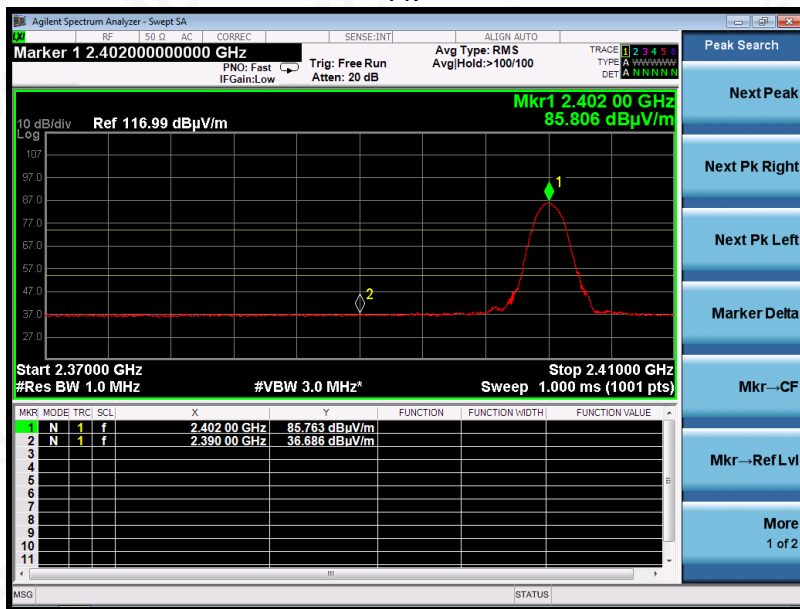
Service Hotline:400 089 2118

EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS



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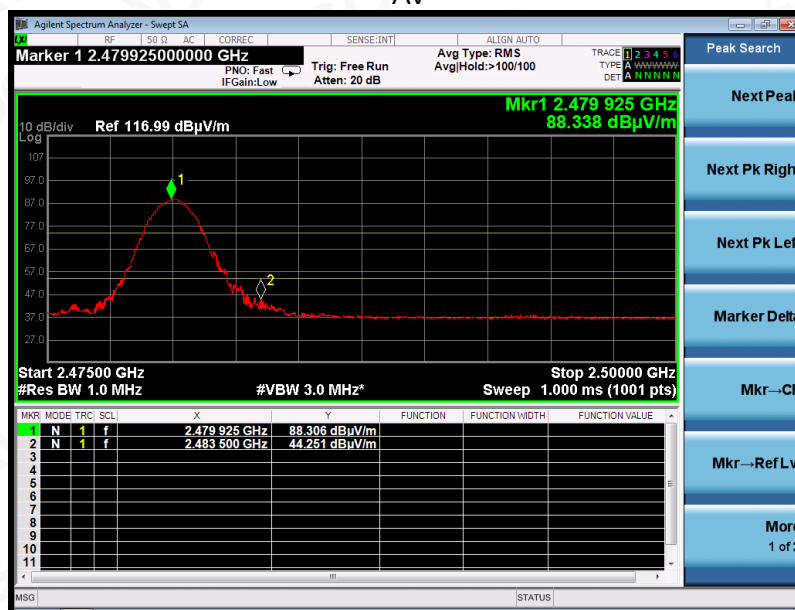
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EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV



RESULT: PASS



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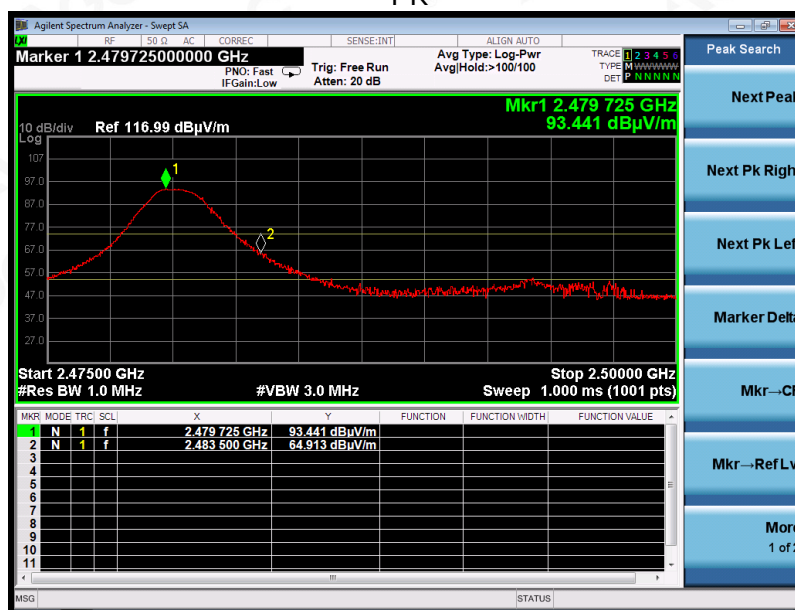
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EUT	Fitness Tracker	Model Name	ID115U
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



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12. FCC LINE CONDUCTED EMISSION TEST

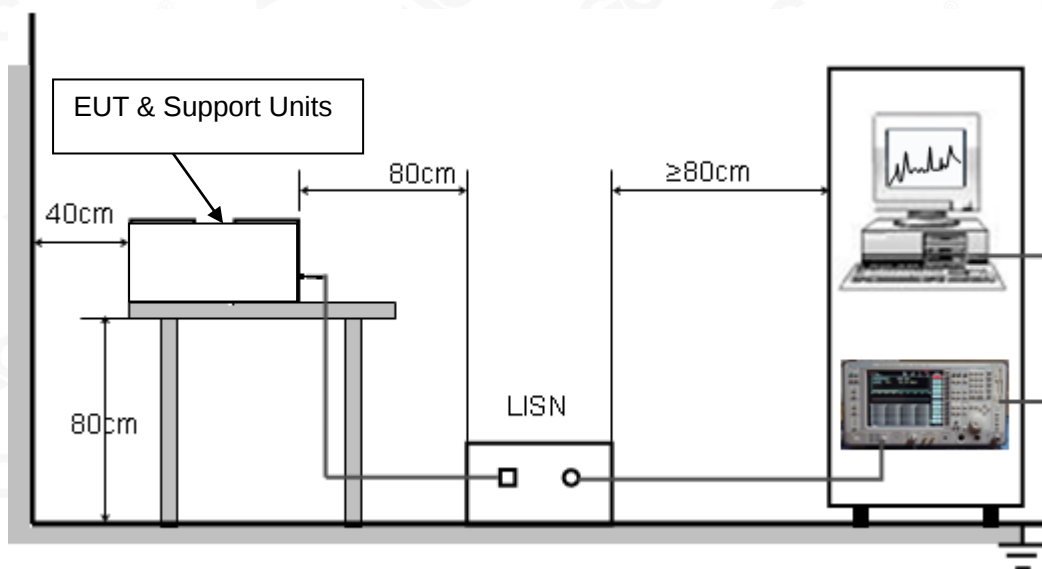
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
 2. Support equipment, if needed, was placed as per ANSI C63.10.
 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
 4. All support equipments received AC120V/60Hz power from a LISN, if any.
 5. The EUT received DC charging voltage by PC or Adapter which received AC120V/60Hz power by a LISN.
 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
 8. During the above scans, the emissions were maximized by cable manipulation.
 9. The test mode(s) were scanned during the preliminary test.
- Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

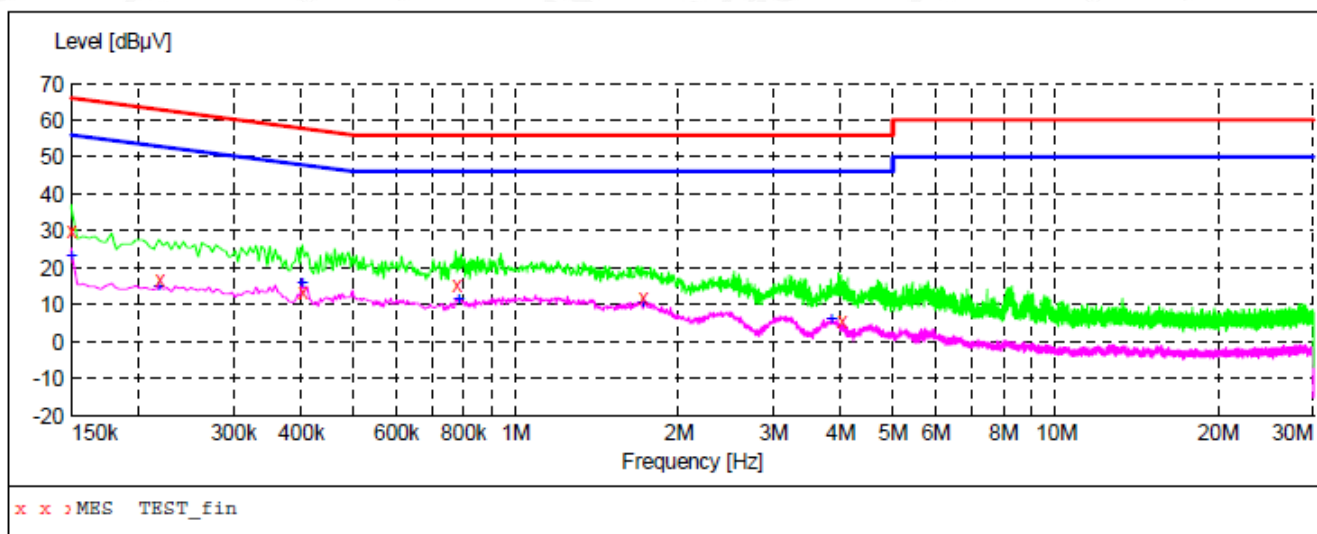
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

7/9/2019 4:25PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	30.30	10.8	66	35.7	QP	L1	FLO
0.218000	16.60	10.9	63	46.3	QP	L1	FLO
0.402000	13.20	10.3	58	44.6	QP	L1	FLO
0.774000	15.50	10.6	56	40.5	QP	L1	FLO
1.714000	11.80	11.5	56	44.2	QP	L1	FLO
4.006000	5.70	11.6	56	50.3	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/9/2019 4:25PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	23.50	10.8	56	32.5	AV	L1	FLO
0.218000	14.80	10.9	53	38.1	AV	L1	FLO
0.402000	15.90	10.3	48	31.9	AV	L1	FLO
0.782000	11.40	10.7	46	34.6	AV	L1	FLO
1.714000	10.30	11.5	46	35.7	AV	L1	FLO
3.846000	6.30	11.6	46	39.7	AV	L1	FLO



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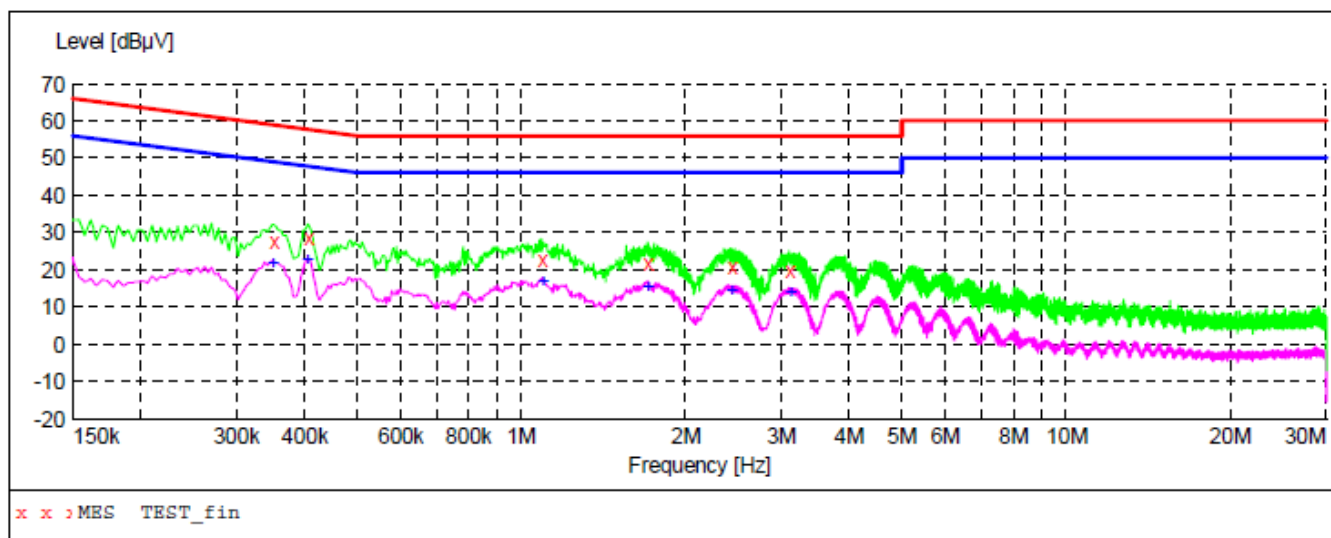
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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Line Conducted Emission Test Line 2-N


MEASUREMENT RESULT: "TEST_fin"

7/9/2019 4:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.350000	27.50	10.6	59	31.5	QP	N	FLO
0.406000	28.70	10.4	58	29.0	QP	N	FLO
1.086000	22.80	11.4	56	33.2	QP	N	FLO
1.702000	21.60	11.5	56	34.4	QP	N	FLO
2.434000	20.70	11.5	56	35.3	QP	N	FLO
3.098000	19.80	11.5	56	36.2	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/9/2019 4:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.350000	21.70	10.6	49	27.3	AV	N	FLO
0.406000	22.70	10.4	48	25.0	AV	N	FLO
1.094000	17.10	11.5	46	28.9	AV	N	FLO
1.710000	15.30	11.5	46	30.7	AV	N	FLO
2.430000	14.60	11.5	46	31.4	AV	N	FLO
3.118000	14.00	11.5	46	32.0	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 2 was the worst case. Only the data of the worst case would be record in this test report.



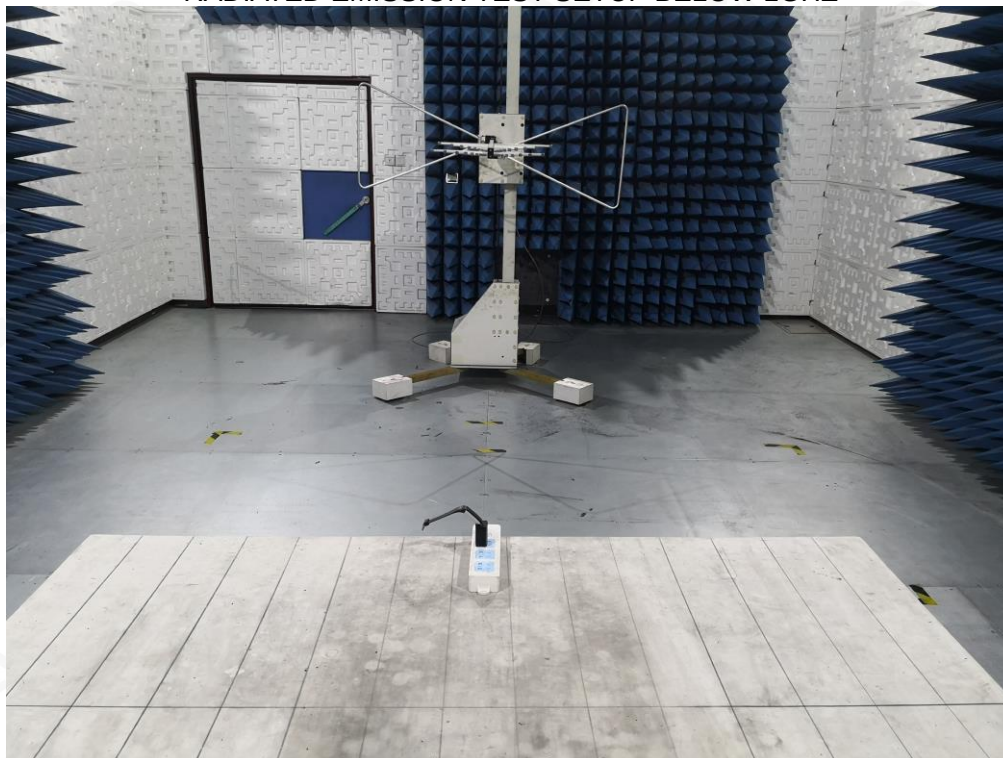
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Xixiang, Bao'an District, Shenzhen, Guangdong, China

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E-mail: agc@agc-cert.com

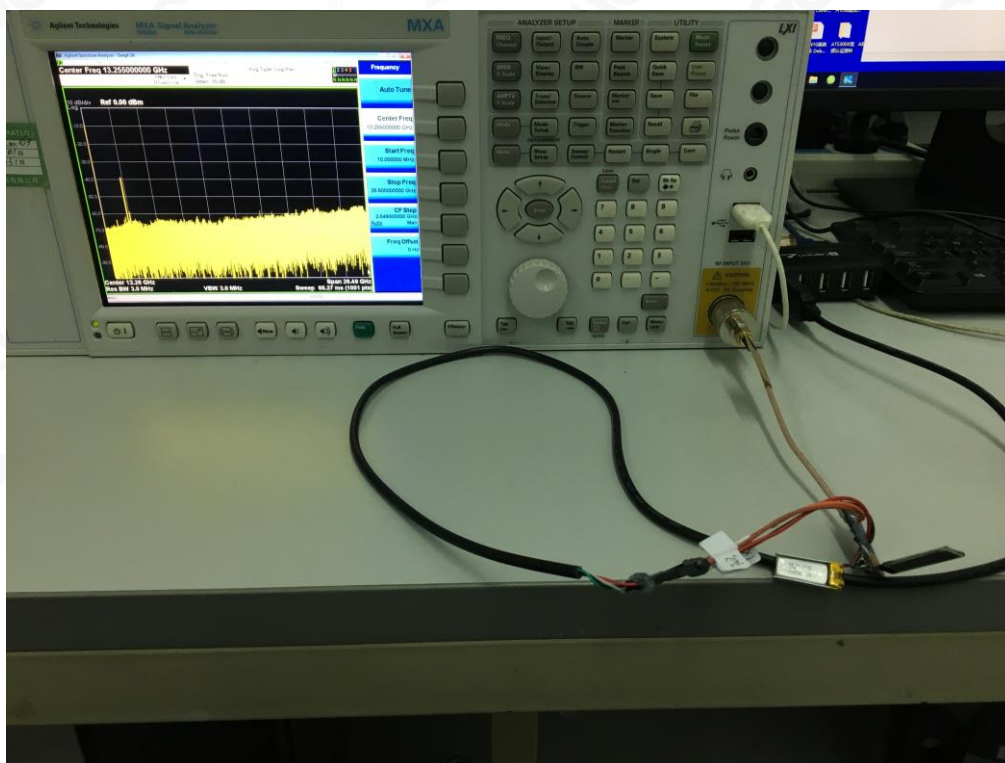
Service Hotline:400 089 2118

APPENDIX A: PHOTOGRAPHS OF TEST SETUP**RADIATED EMISSION TEST SETUP BELOW 1GHZ****RADIATED EMISSION TEST SETUP ABOVE 1GHZ**

CONDUCTED EMISSION TEST SETUP

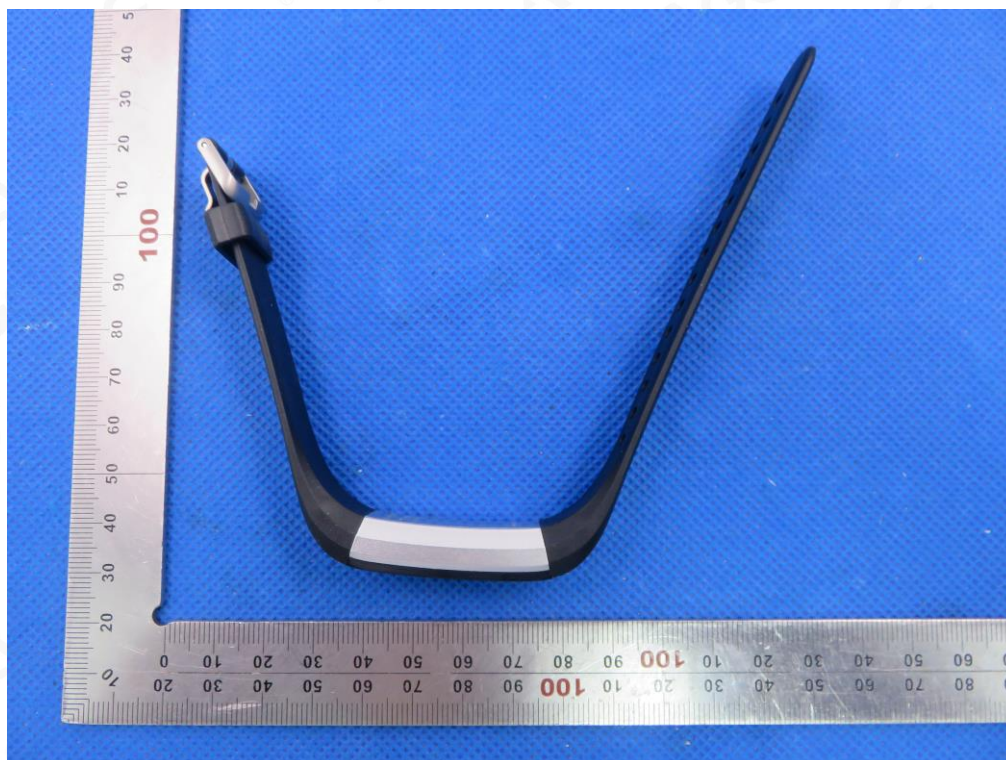


CONDUCTED TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



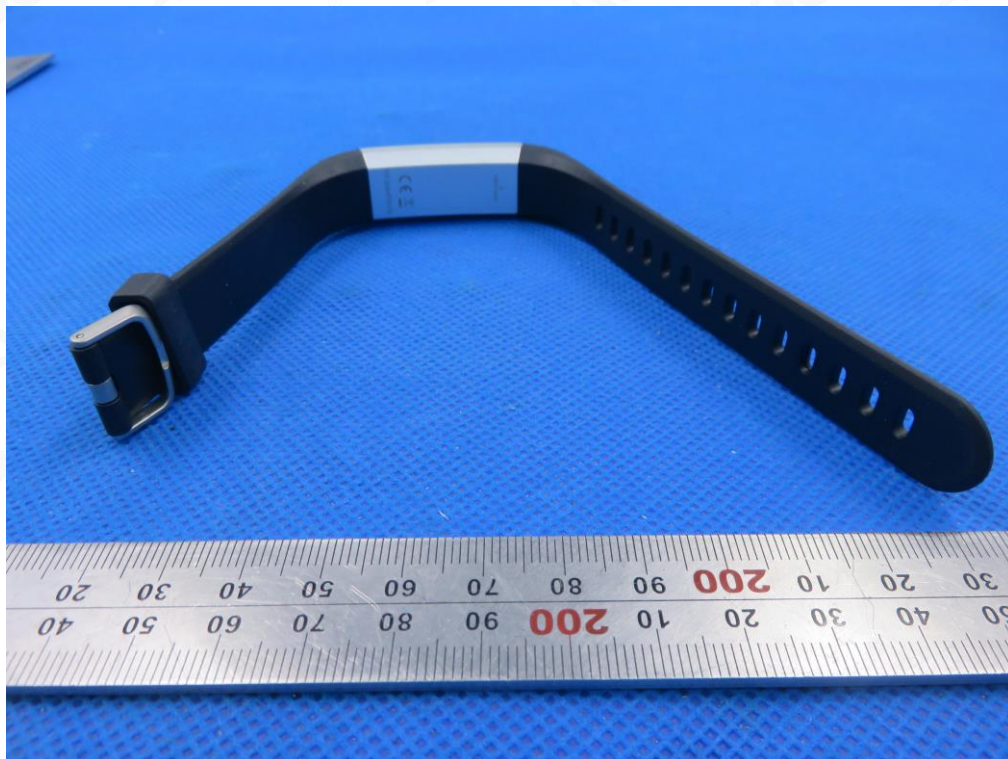
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



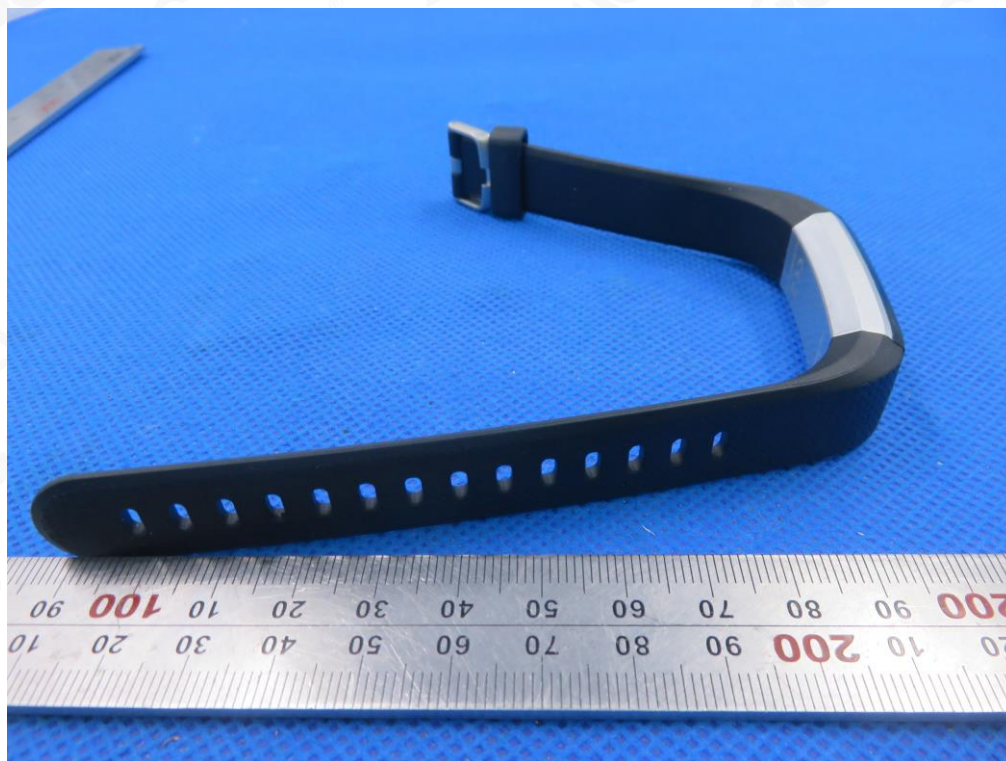
BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



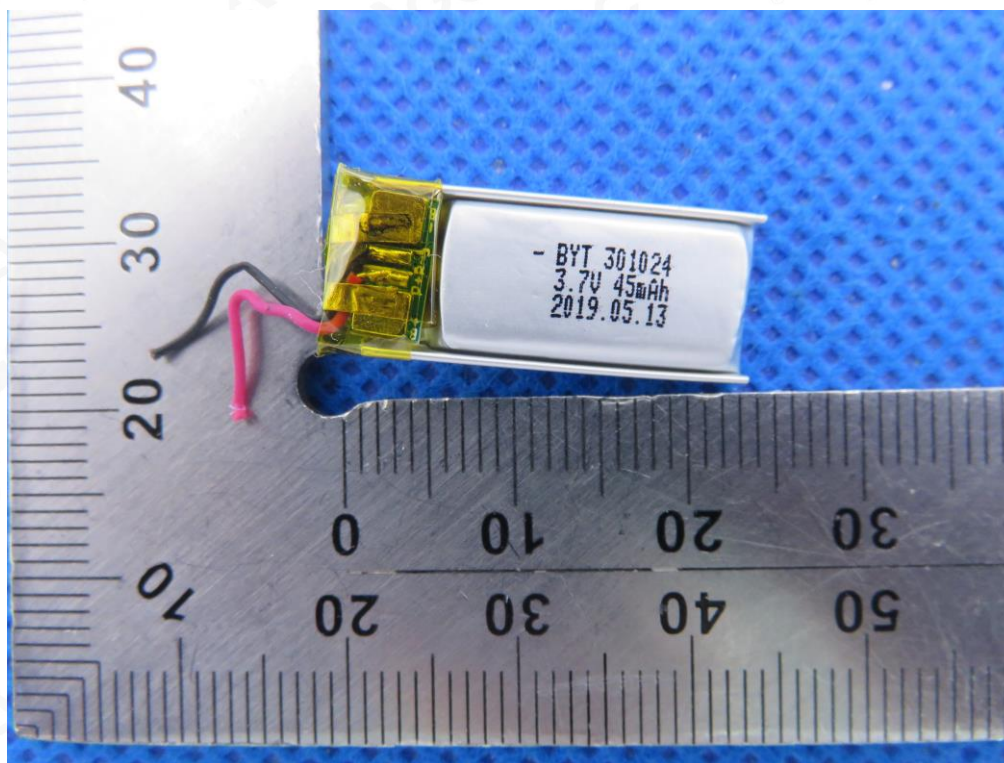
VIEW OF EUT (PORT)



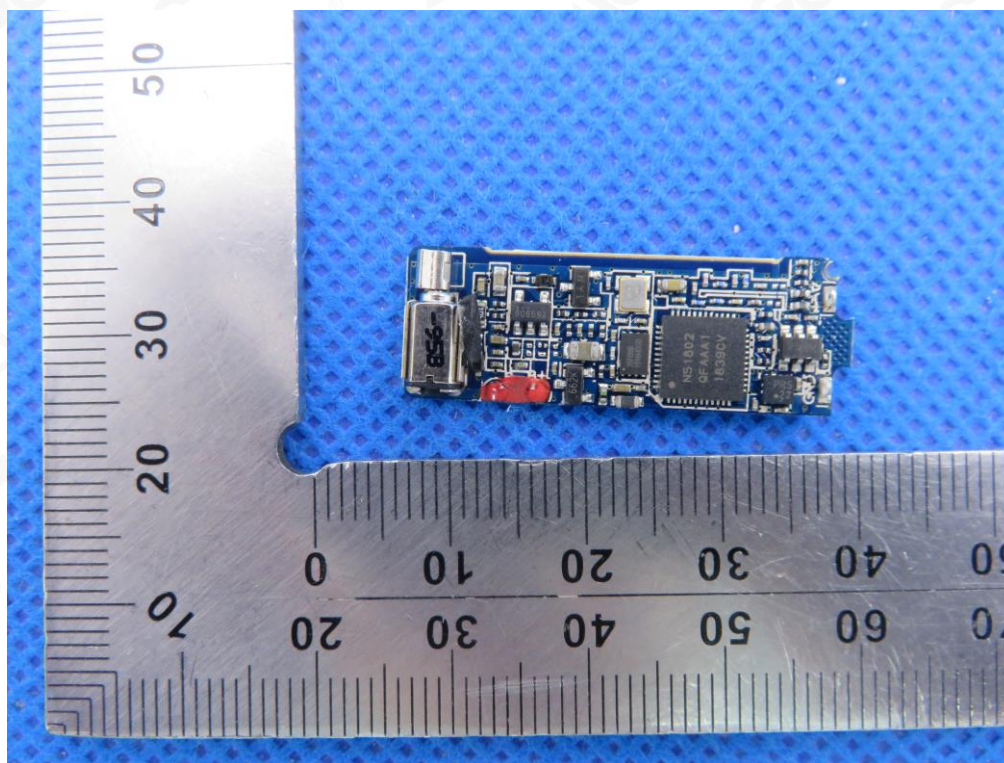
OPEN VIEW OF EUT



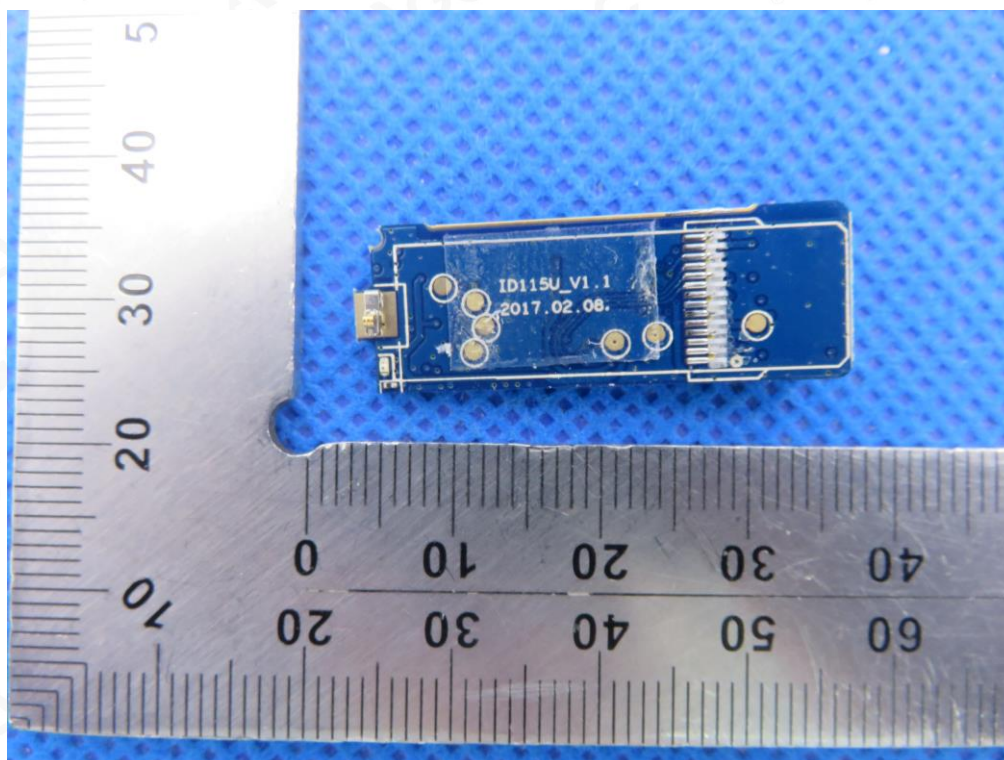
VIEW OF BATTERY



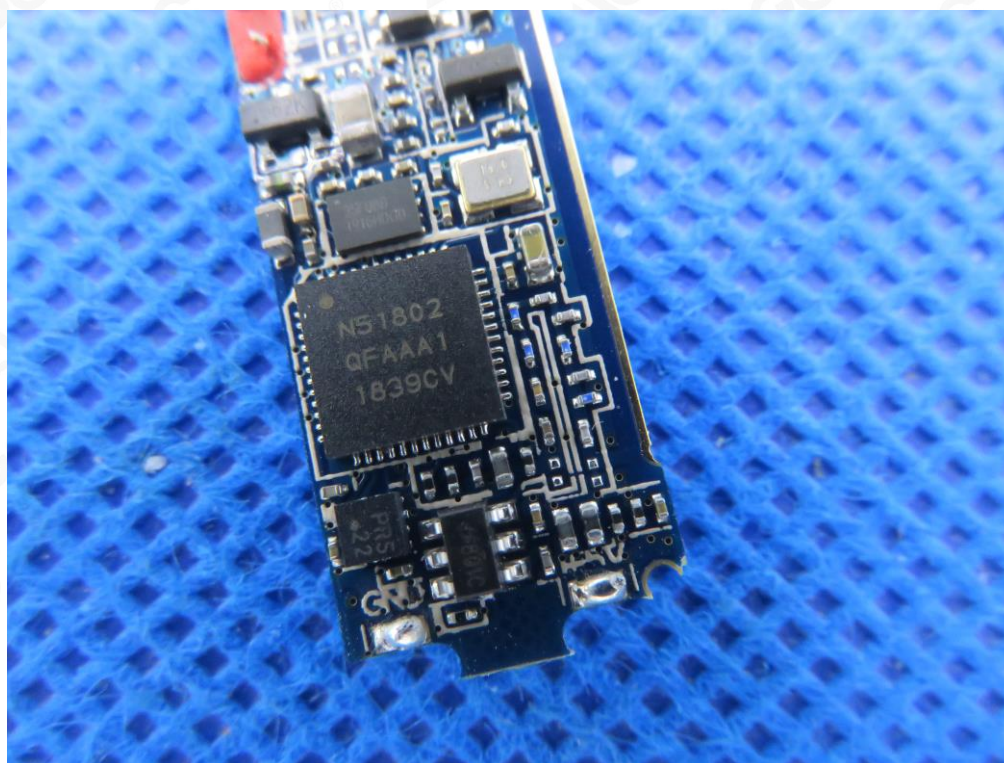
INTERNAL VIEW OF EUT-1



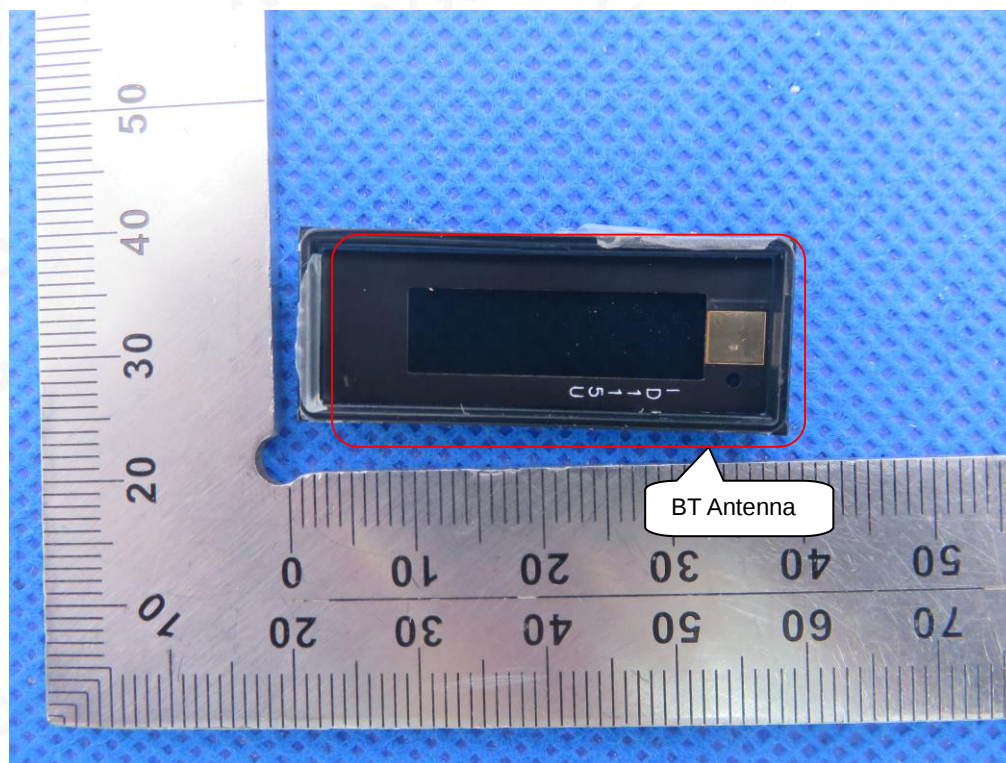
INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----