

JAPAN MIC

Radio Test Report

FOR

Applicant: AViTA Corporation
9F, No.78, Sec. 1, Kwang-Fu Road, San-Chung District, New Taipei City 241, Taiwan (R.O.C)

Product Name: AViTA BLE Module

Brand Name: AViTA

Model No.: AViTA-BLEM01

Model Difference: N/A

Report Number: E2/2018/C0030

Issue Date: Jan. 23, 2019

Date of Test: Jan. 04, 2019 ~ Jan. 23, 2019

Date of EUT Received: Dec. 26, 2018

Place of Testing No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

We hereby declare that:

The data presented with this application to be true and correct; and That our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by SGS RF Technologies Inc..

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

Tested By:

Vito Pei

Vito Pei / Sr. Engineer

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/C0030	Rev.00	Initial creation of document	All	Jan.19, 2019	Susan Lin
E2/2018/C0030	Rev.01	Updated information	Page 6, 9, 14, 15	Jan.23, 2019	Susan Lin

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General information

General:

Product Name:	AViTA BLE Module
Brand Name:	AViTA
Model No.:	AViTA-BLEM01
Model Difference:	N/A
Product HW version:	N/A
Product SW version:	N/A
Power Supply:	3Vdc from Test Kit

Type, frequency of
transmittable radio wave
and rated output

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)
0.557 mW

Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
PIFA	N/A	N/A	H+V	-0.26

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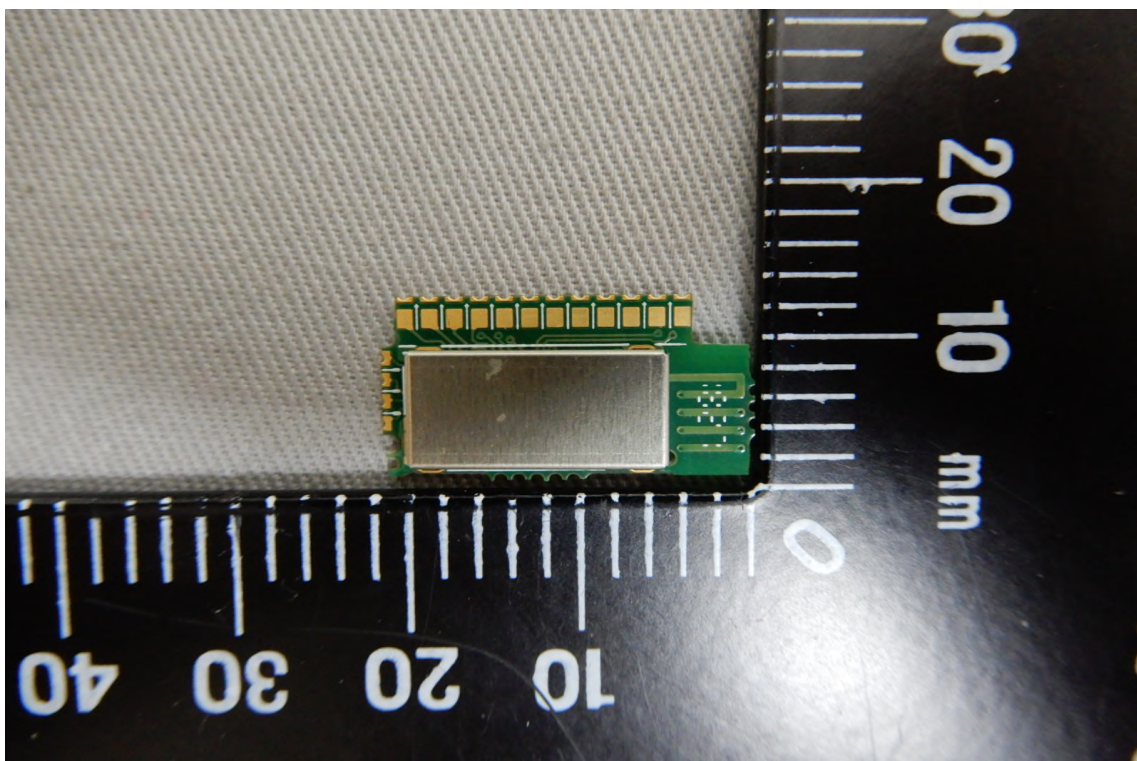
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1.2 Assemble

The shielding is directly soldered to the PCB board. The inner shielding is shown in the illustration below.



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2 DESCRIPTION OF TEST

Environment of Test Room	Temperature	21	°C
	Humidity	65	%

Peak Antenna Gain	-0.26	dBi
Rated output	0.557	mW
Rated output	-2.5400	dBm
E.I.R.P.	-2.8000	dBm
Input Voltage	3	VDC

Tested Circuit Insertion Loss		0.6	dB
Burst	ON TIME	0.0003936	sec
	OFF TIME	0.000232	sec
	Ratio	62.92	%
Packet Type (Mode)		BT LE	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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The reason why test are performed only rated voltage
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	3	3.3	2.7
Output DC Power	2.98	2.99	2.96
Voltage Variation (%)	0	0.334448161	-0.675675676
Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100			
During the input supply voltage to the EUT from the external power source is varied by $\pm 10\%$, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than $\pm 1\%$. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.			

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3 ABOUT UNCERTAINTY OF MEASURED VALUE

*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	<div> <div>Case1</div> <div>Standard limit value</div> <div> <div>+uncertainty</div> <div>-uncertainty</div> <div>Measured value</div> </div> </div>	*Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	<div> <div>Case2</div> <div> <div></div> <div></div> </div> </div>	*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	<div> <div>Case3</div> <div> <div></div> <div></div> </div> </div>	*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	<div> <div>Case4</div> <div> <div></div> <div></div> </div> </div>	*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

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4 MEASUREMENT EQUIPMENT LIST

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315048	2018/08/09	2019/08/02
Power Sensor	Anritsu	MA2411B	1315049	2018/08/09	2019/08/02
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Spectrum Analyzer	Agilent	N9010A	MY53400256	2018/11/21	2019/11/20
DC Block	PASTERNAK	PE8210	RF29	2018/12/25	2019/12/24

Note 1: The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

Note 2: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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5 TEST RESULTS:

Measurement Frequency		MHz	2402	2440	2480	Result	NOTES	
Channel Number		Ch.	0	19	39	-----		
Reading Frequency		MHz	2401.98818	2439.98727	2479.98577	-----		
Frequency Tolerance		ppm	-4.92090	-5.21721	-5.73790	PASS		
Occupied Bandwidth		MHz	1.6351	1.6281	1.6218	PASS		
Spread Bandwidth		MHz	-	-	-	-	-	
RF Output Power		mW	0.478	0.535	0.557	PASS		
		dBm	-3.210	-2.720	-2.540			
RF Output Power Tolerance		%	-14.30	-4.06	0.00	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.111944	0.018750	0.020230	PASS		
		dBm/MHz	-39.51	-47.27	-46.94			
		MHz	2387.00	1895.66	1895.66		-----	
	2387-2400MHz	μW/MHz	12.589254	0.022284	0.007603	PASS		
		dBm/MHz	-19.00	-46.52	-51.19			
		MHz	2399.99	2399.12	2400.00		-----	
	2483.5-2496.5MHz	μW/MHz	0.007925	0.022439	2.460368	PASS		
		dBm/MHz	-51.01	-46.49	-26.09			
		MHz	2483.77	2484.19	2483.53		-----	
	2496.5 - 26.5GHz	μW/MHz	1.023293	1.002305	0.648634	PASS		
		dBm/MHz	-29.90	-29.99	-31.88			
		MHz	4803.84	4881.85	4959.86		-----	
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW/100KHz	0.5152	0.6412	0.7603	PASS	
			dBm/100KHz	-62.88	-61.93	-61.19		
			MHz	930.82	931.69	931.94		-----
		1 - 12.5GHz	nW/MHz	3.9174	4.6774	1.1967	PASS	
			dBm/MHz	-54.07	-53.30	-59.22		
MHz	2419.00		1897.00	1808.50	-----			
Interference Prevention Function		-----	Good			PASS		

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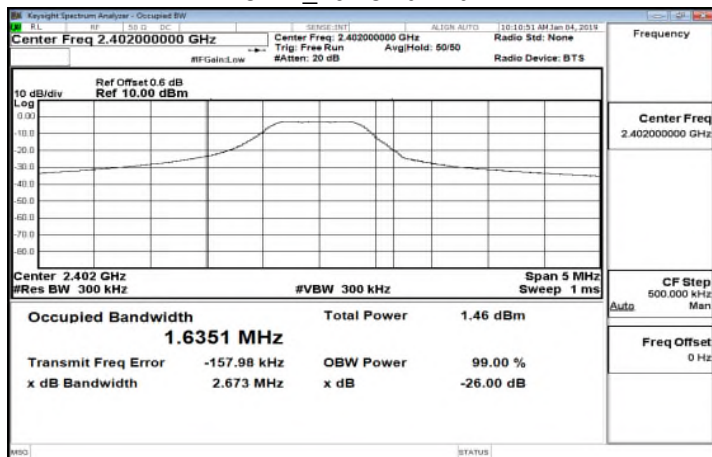
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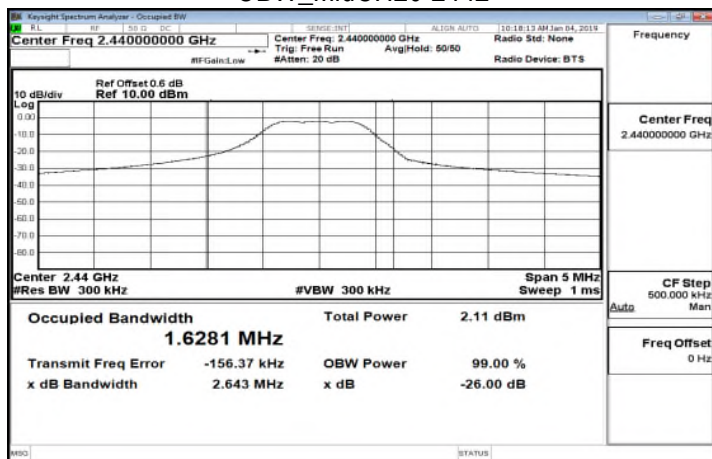
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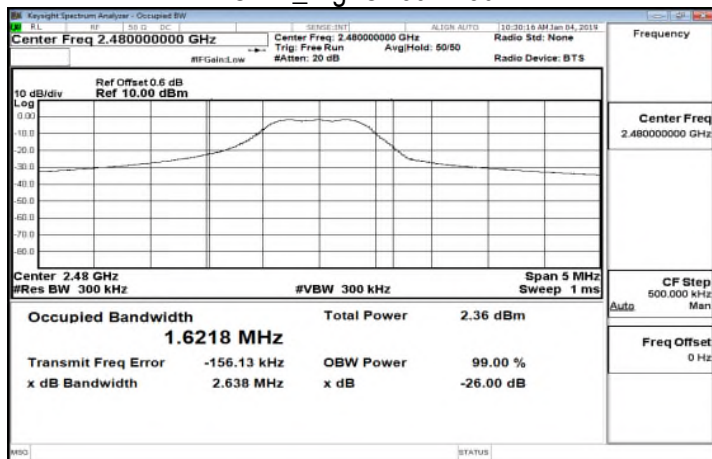
OBW_LowCH0-2402



OBW_MidCH20-2442



OBW_HighCH39-2480

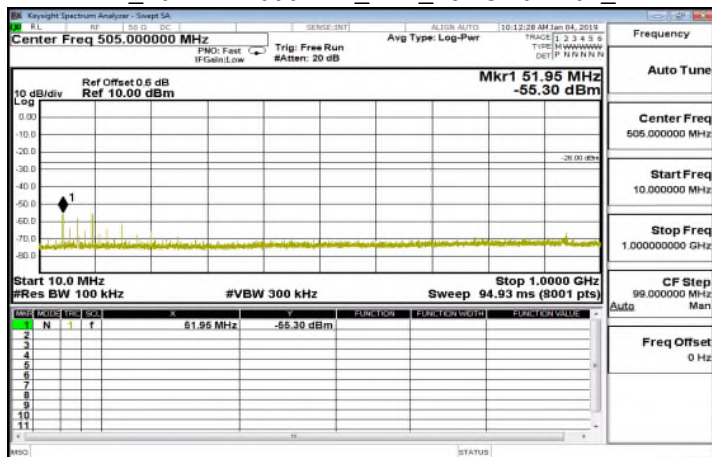


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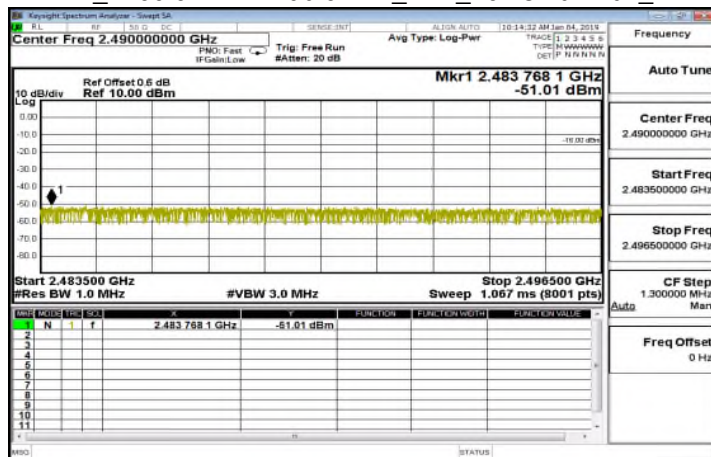
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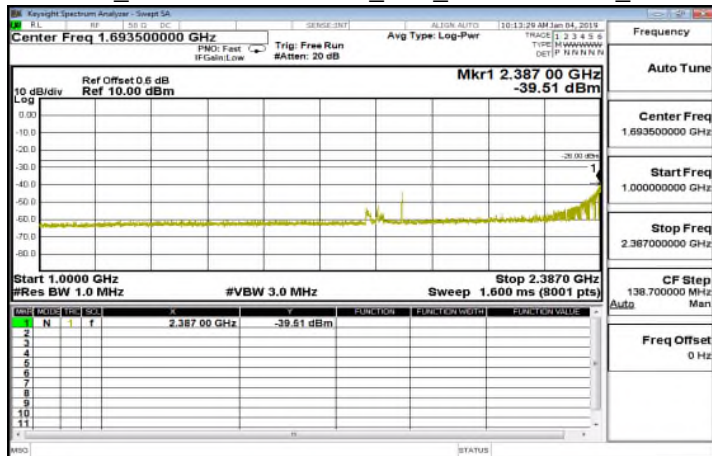
TX_10MHz~1000MHz_BLE_LowCH0-2402_1



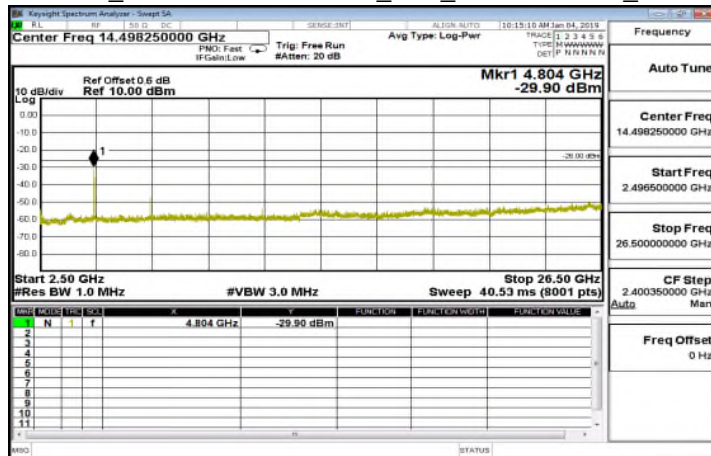
TX_2483.5MHz~2496.5MHz_BLE_LowCH0-2402_4



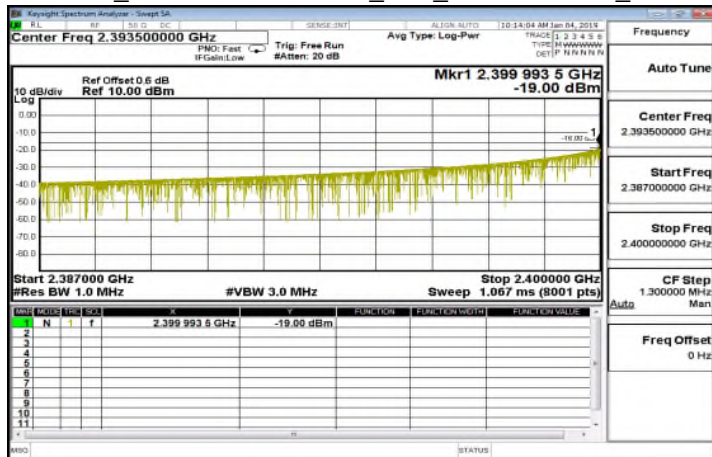
TX_1000MHz~2387MHz_BLE_LowCH0-2402_2



TX_2496.5MHz~26.5GHz_BLE_LowCH0-2402_5



TX_2387MHz~2400MHz_BLE_LowCH0-2402_3

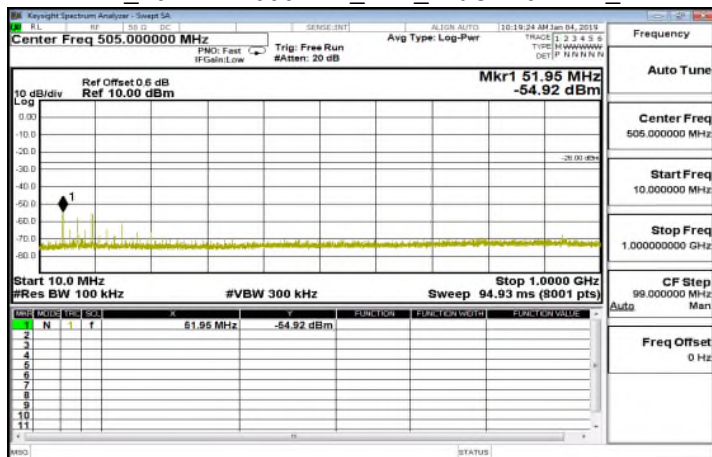


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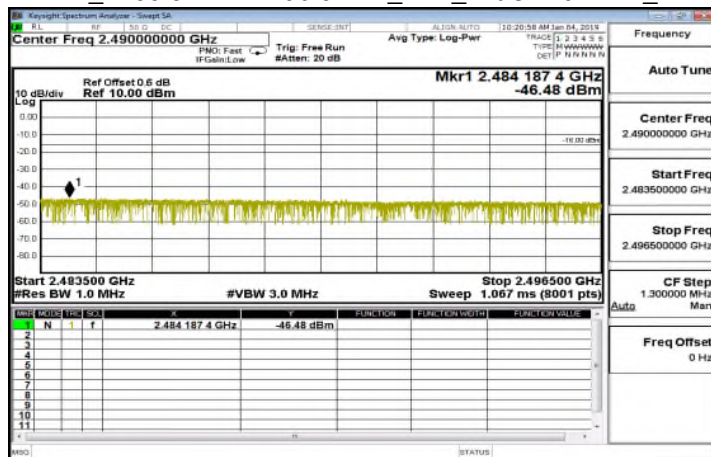
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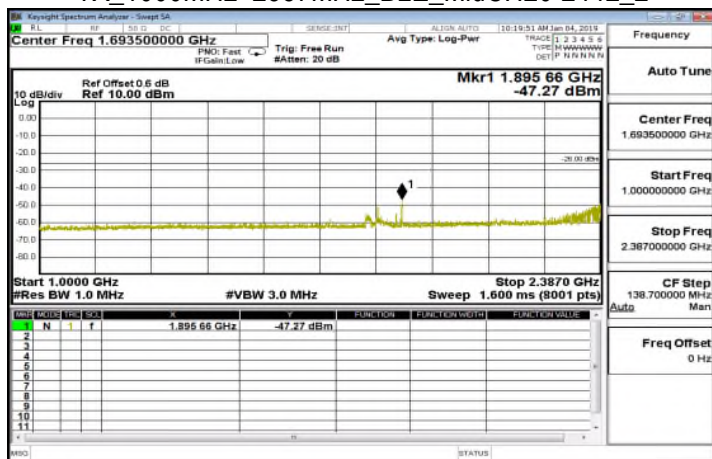
TX_10MHz~1000MHz_BLE_MidCH20-2442_1



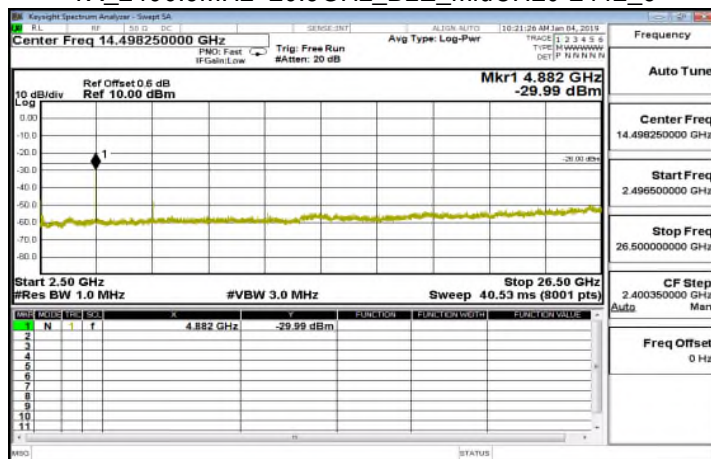
TX_2483.5MHz~2496.5MHz_BLE_MidCH20-2442_4



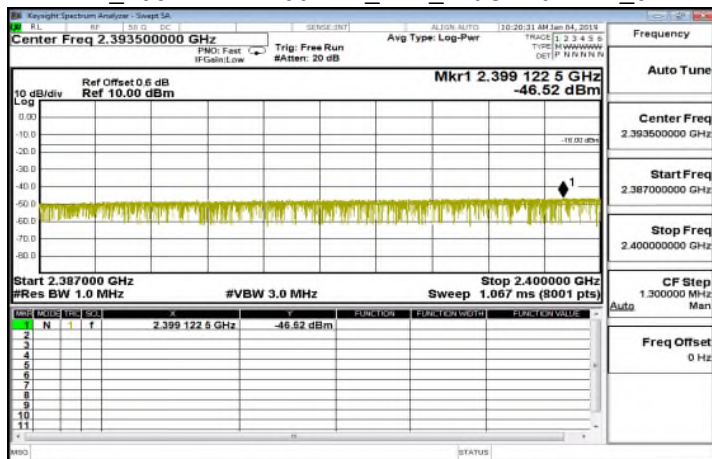
TX_1000MHz~2387MHz_BLE_MidCH20-2442_2



TX_2496.5MHz~26.5GHz_BLE_MidCH20-2442_5



TX_2387MHz~2400MHz_BLE_MidCH20-2442_3

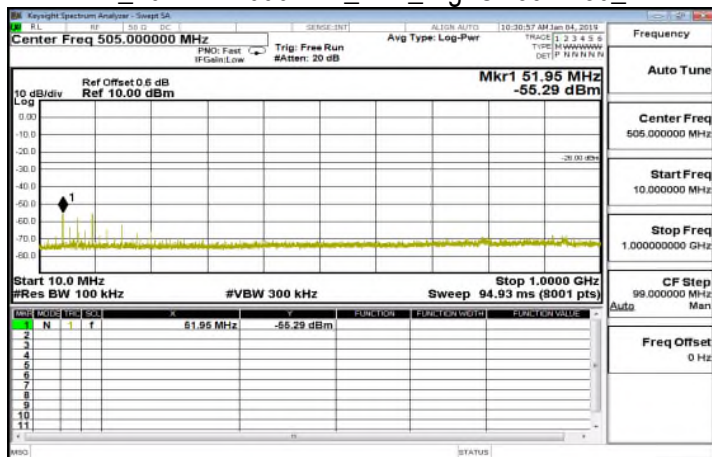


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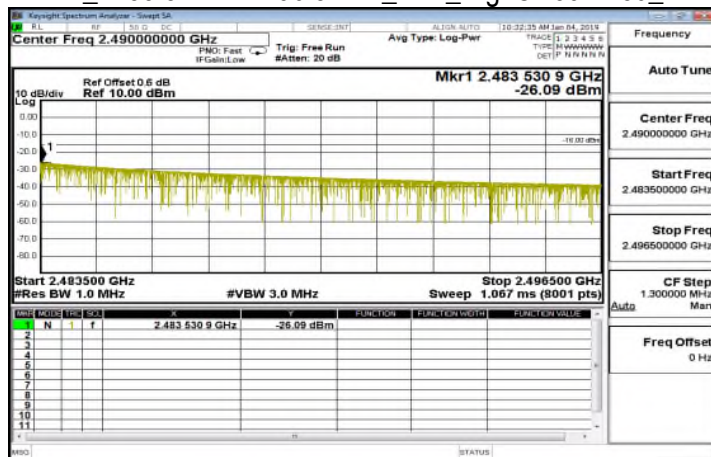
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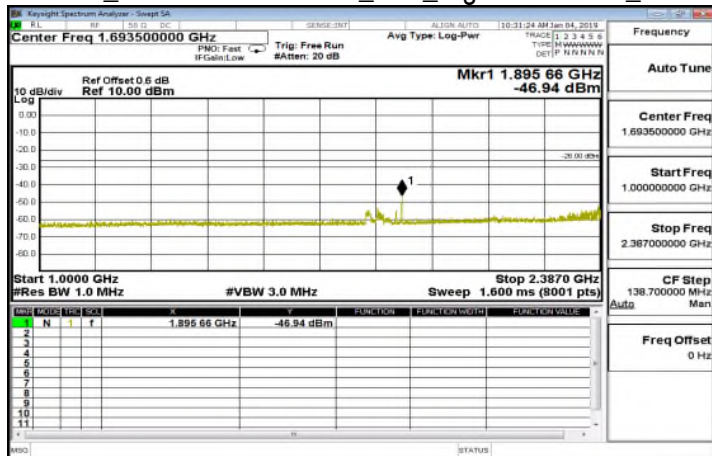
TX_10MHz~1000MHz_BLE_HighCH39-2480_1



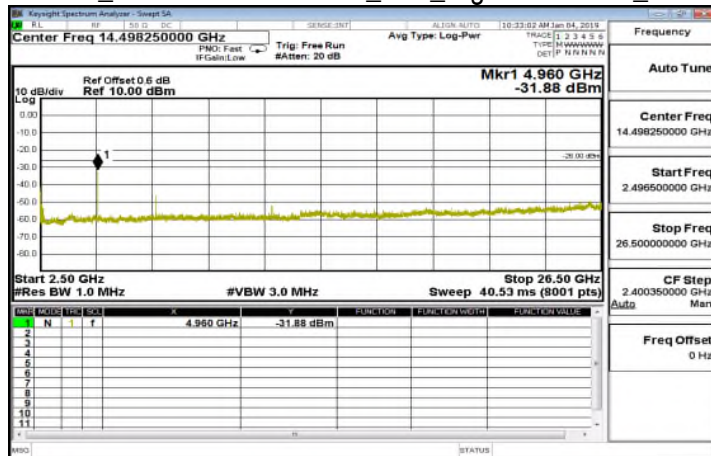
TX_2483.5MHz~2496.5MHz_BLE_HighCH39-2480_4



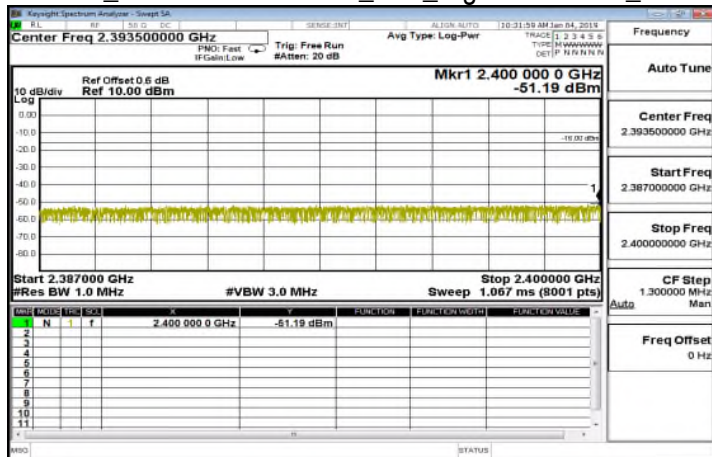
TX_1000MHz~2387MHz_BLE_HighCH39-2480_2



TX_2496.5MHz~26.5GHz_BLE_HighCH39-2480_5



TX_2387MHz~2400MHz_BLE_HighCH39-2480_3

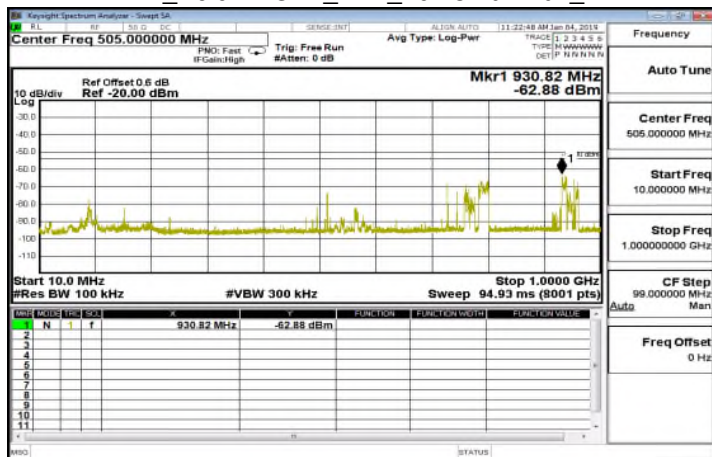


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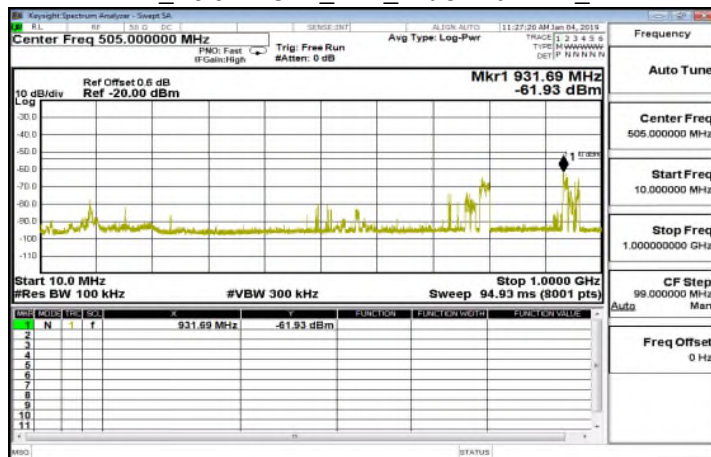
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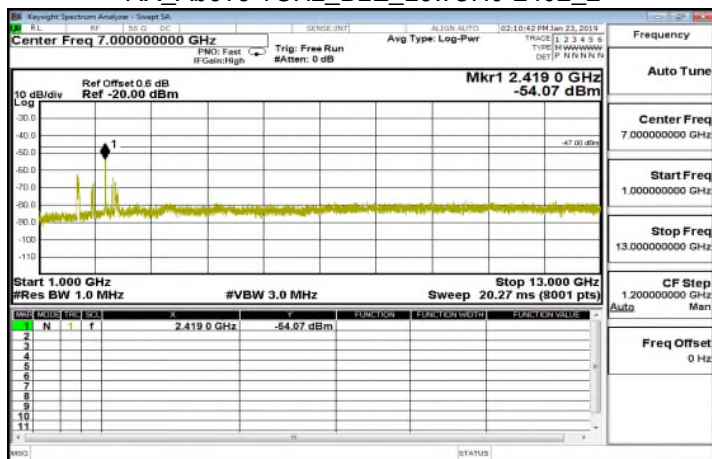
RX_Below 1GHz_BLE_LowCH0-2402_1



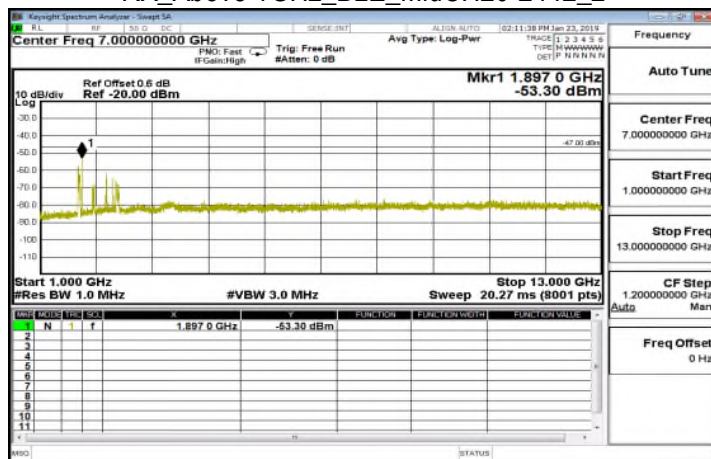
RX_Below 1GHz_BLE_MidCH20-2442_1



RX_Above 1GHz_BLE_LowCH0-2402_2



RX_Above 1GHz_BLE_MidCH20-2442_2

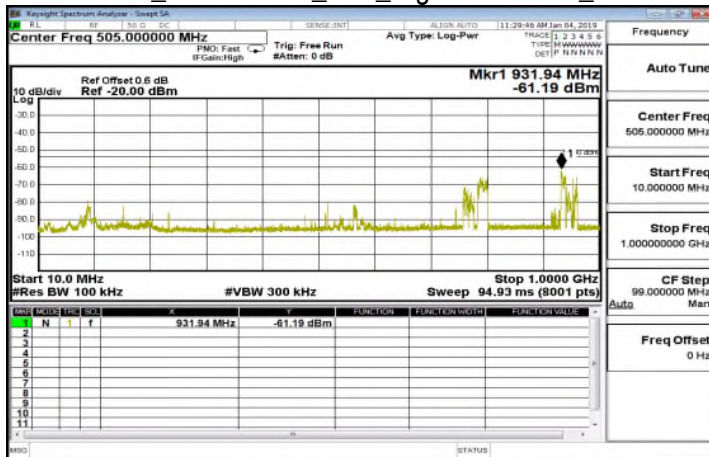


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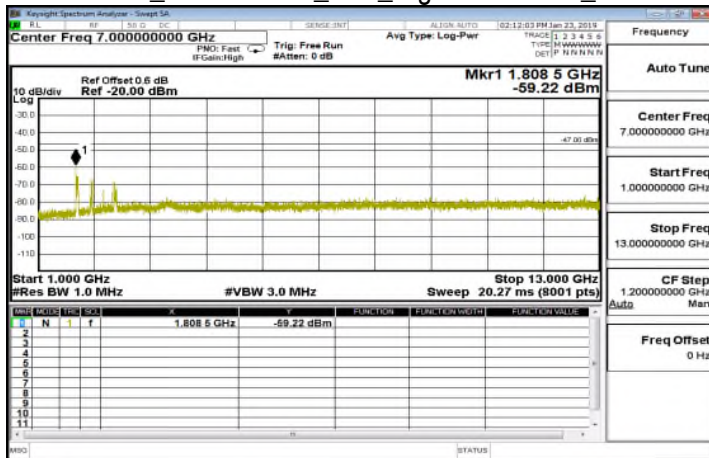
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RX_Below 1GHz_BLE_HighCH39-2480_1



RX_Above 1GHz_BLE_HighCH39-2480_2

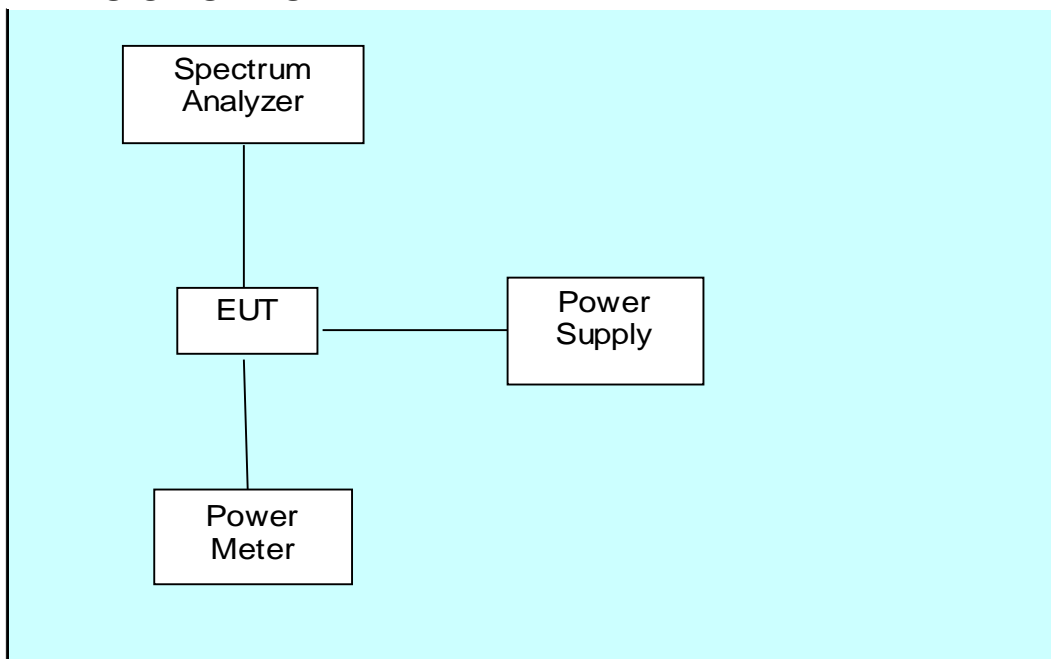


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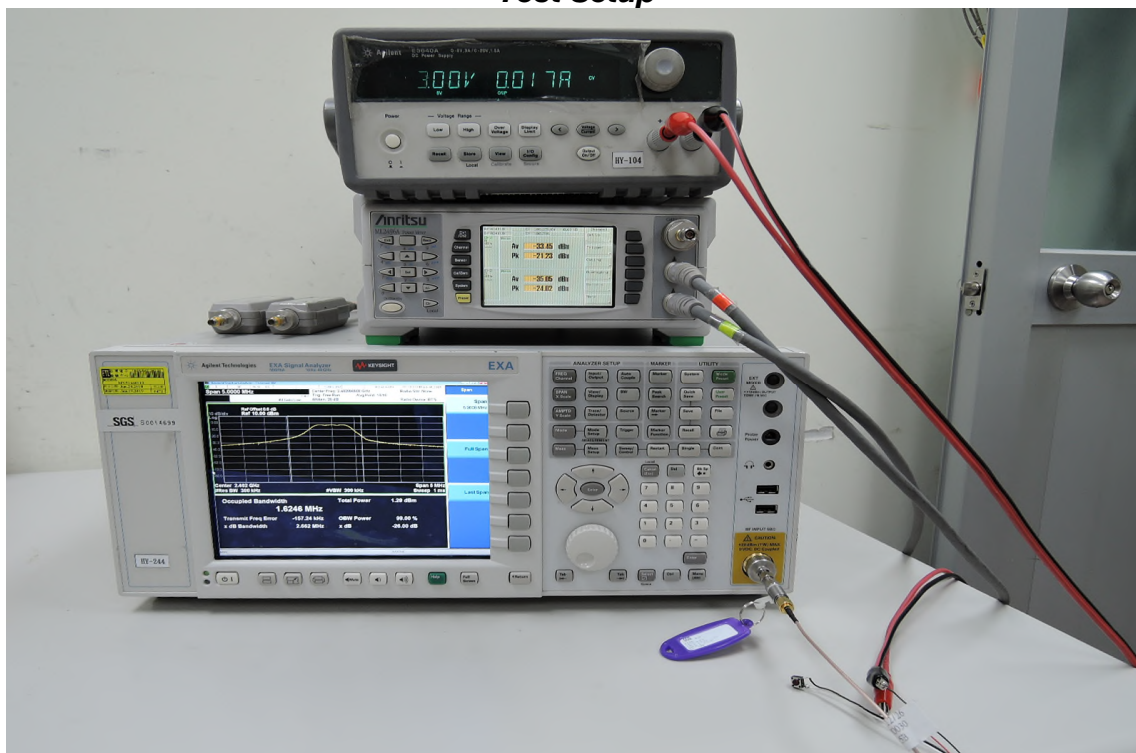
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PHOTOGRAPHS OF SET UP



Test Setup



PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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