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FCC RADIO TEST REPORT
FCC ID: 2AEWXBLUE1

Product： Budiu Blue Button

Trade Name： budiu

Model Name： blue button

Serial Model： blue button 1.0

Prepared for

Beijing ANDL Technology co.,ltd

Room 202 BIFTPARK, No.2 East Yinghua Road, Chaoyang District, Beijing, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... Beijing ANDL Technology co.,ltd

Address ..... Room 202 BIFTPARK,No.2 East Yinghua Road, Chaoyang District,Beijing,China

Manufacture's Name..... Beijing ANDL Technology co.,ltd

Address ..... Room 202 BIFTPARK,No.2 East Yinghua Road, Chaoyang District,Beijing,China

Product description

Product name ..... Budiu Blue Button

Model and/or type reference ..... blue button

Serial Model ..... blue button 1.0

Standards ..... FCC Part15.247

Test procedure ..... ANSI C63.4-2003

This device described above has been tested by ATT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....

Date (s) of performance of tests ..... Sep. 06, 2015 ~ Sep. 17, 2015

Date of Issue..... Sep. 17, 2015

Test Result..... **Pass**

Tested by: Eric Wang	Reviewed by: Jerry You	Approved by: Jack Yu
Eric Wang	Jerry You	Jack yu
Project Leader	Laboratory Supervisor	Technical Director

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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1.1 TEST FACILITY

DONGGUAN UTL ELECTRONIC TECHNOLOGY CO., LTD.
1F,Hengzheng Bldg, North Road of Station, Nancheng District, Dongguan, Guangdong, China.
FCC Registration No.: 713614

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Budiu Blue Button
Model Name	blue button
Serial Model	blue button 1.0
Model Difference	All models are identical except model name.
Product Description	The EUT is a Budiu Bluetooth Button Operation Frequency: 2402~2480MHz Modulation Type: GFSK Bluetooth version: 4.1 BLE Bit Rate of Transmitter 1 Mbps Number Of Channel 40CH Antenna Designation: Please see Note 3. Output Power(Conducted): 0dBm(PK) Antenna Gain (dBi) 0dbi
Channel List	Please refer to the Note 2.
Ratings	DC 3.0V
Adapter	N/A
Battery	DC 3.0V
HW	B_CC2640_V1.0
SW	V1.1

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2.

Channel	Frequency (MHz)
00	2402
01	2404
……	……
38	2478
39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE

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A	N/A	N/A	PCB Antenna	N/A	0	BT Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39

For Conducted Emission	
Final Test Mode	Description
/	/

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH19
Mode 3	CH39

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%. measurements are performed according to the KDB 558074 D01 DTS Meas Guidance v03r03

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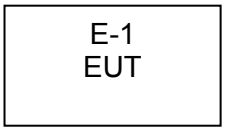
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Budiu Blue Button	budiu	blue button	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	ADVANTEST	R3182	150900201	2015.06.29	2016.06.28
2	EMI Measuring Receiver	R&S	ESR	101660	2014.12.12	2015.12.11
3	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2015.06.29	2016.06.28
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02-34	2648A04738	2014.12.02	2015.12.01
5	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2014.12.03	2015.12.02
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2014.12.03	2015.12.02
7	SHF-EHF Horn	SCHWARZBECK	BBHA9170	BBHA9170367	2014.12.03	2015.12.02
8	Loop Antenna	ARA	PLA-1030/B	1029	2015.03.20	2016.03.19
9	Radiated Cable 1#（30MHz-1GHz）	FUJIKURA	5D-2W	01	2015.01.04	2016.01.03
10	Radiated Cable 2#（1GHz -25GHz）	FUJIKURA	10D2W	02	2014.12.25	2015.12.24
11	Radiated Cable 1#(9KHz-30MHz)	FUJIKURA	1D-2W	01	2015.01.04	2016.01.03
12	SMA Antenna connector	Dosin	Dosin-SMA	N/A	N/A	N/A
13	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05
14	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05
Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.						

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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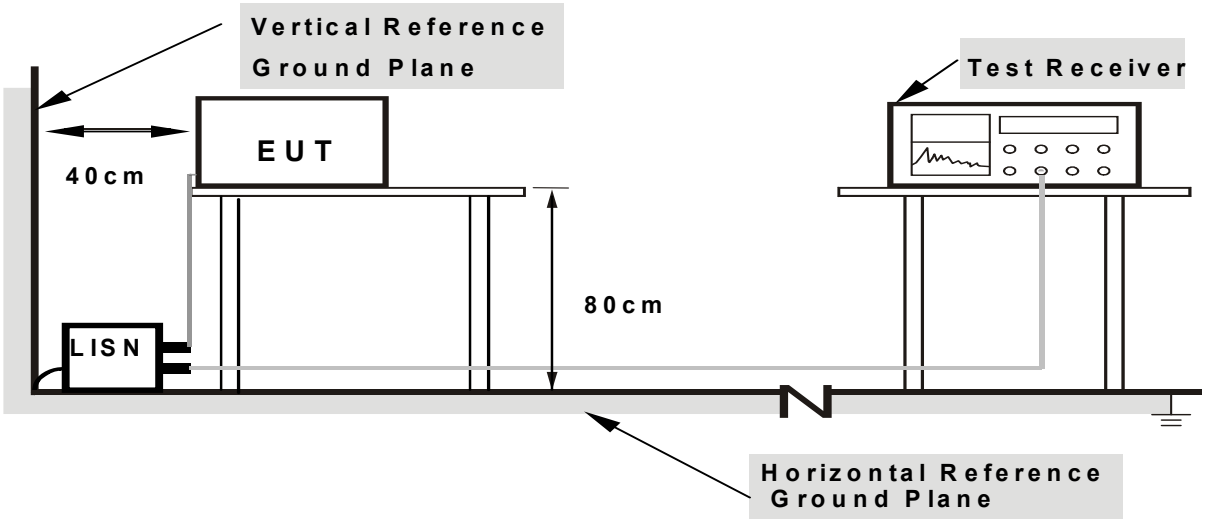
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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3.1.6 TEST RESULTS

Note : Due to this EUT is powered by batteries only, this test item is not applicable.

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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a)&A8.5, then the 15.209(a) limit in the table below has to be followed.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 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, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section A8.4 (4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

(1) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / *10Hz* for Average

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

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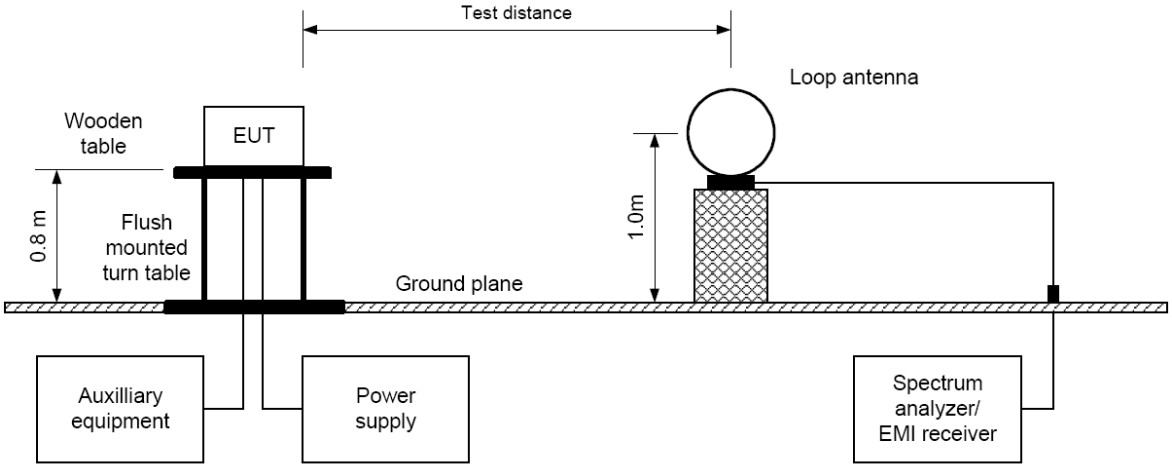
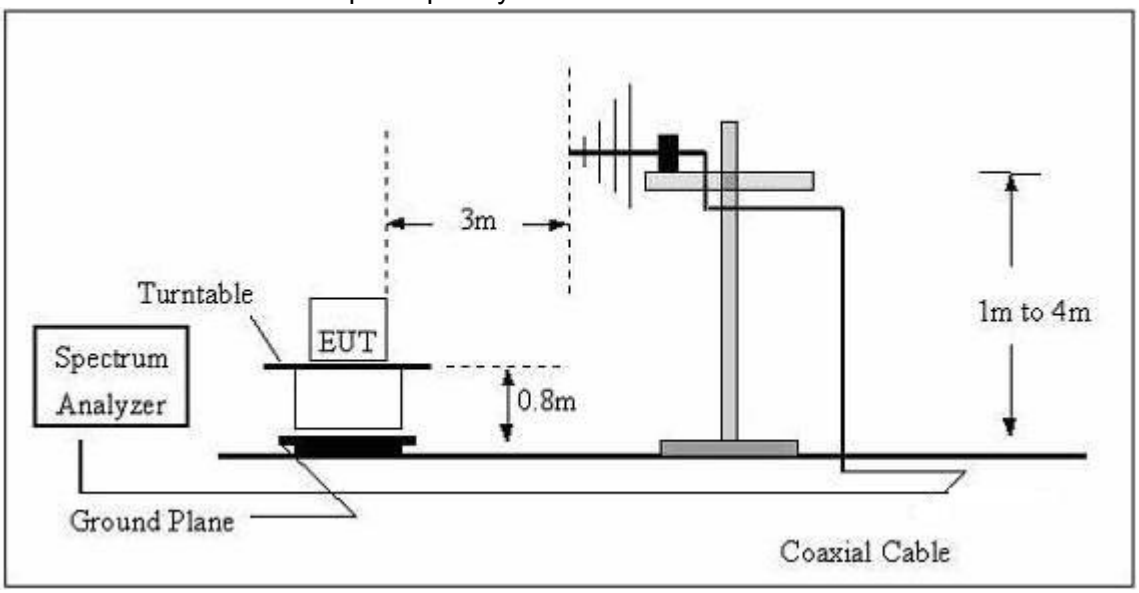
3.2.4 TEST SETUP

（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



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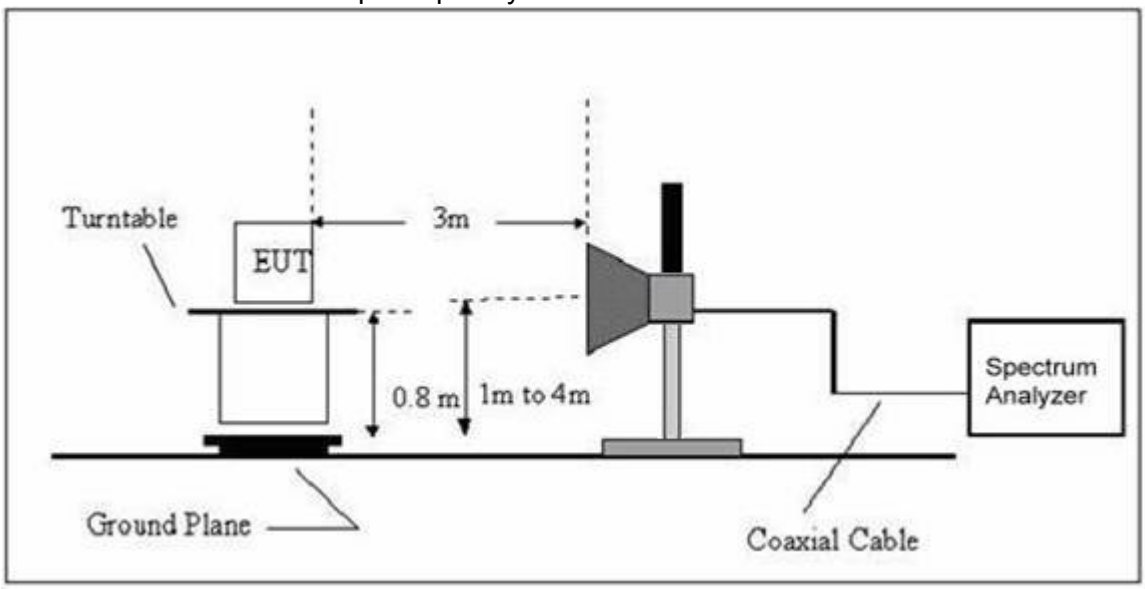
（C）Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	Budiu Blue Button	Model Name. ：	blue button
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.0V by battery
Test Mode ：	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

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3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	Budiu Blue Button	Model Name ：	blue button
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.0V by battery
Test Mode ：	TX 2402(worse-case)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
V	43.62	20.36	7.85	28.21	40	-11.79	QP
V	148.65	19.65	9.57	29.22	43.5	-14.28	QP
V	213.54	18.64	11.78	30.42	46	-15.58	QP
V	277.16	19.87	12.28	32.15	46	-13.85	QP
V	357.65	16.51	13.65	30.16	46	-15.84	QP
V	418.62	17.36	16.66	34.02	46	-11.98	QP
H	61.57	16.58	7.86	24.44	40	-15.56	QP
H	176.35	20.54	10.58	31.12	43.5	-12.38	QP
H	254.17	21.15	11.38	32.53	46	-13.47	QP
H	368.47	20.33	14.25	34.58	46	-11.42	QP
H	442.66	21.54	15.47	37.01	46	-8.99	QP
H	518.54	20.75	18.94	39.69	46	-6.31	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

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3.2.8 TEST RESULTS (1000 MHz-10th)

Frequency (MHz)	Reading (dBμV)	Factor (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector (PK/QP/ AV)	Polar (H/V)
Low Channel (2402 MHz)-Above 1G							
4804.12	57.61	1.58	59.19	74	-14.81	Pk	Vertical
4804.12	45.16	1.58	46.74	54	-7.26	AV	Vertical
7206.22	51.45	1.02	52.47	74	-21.53	Pk	Vertical
7206.22	42.32	1.02	43.34	54	-10.66	AV	Vertical
4804.05	50.38	0.57	50.95	74	-23.05	Pk	Horizontal
4804.05	41.05	0.57	41.62	54	-12.38	AV	Horizontal
7206.17	46.76	0.14	46.9	74	-27.1	Pk	Horizontal
7206.17	30.22	0.14	30.36	54	-23.64	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G							
4880.12	55.16	1.76	56.92	74	-17.08	Pk	Vertical
4880.12	43.61	1.76	45.37	54	-8.63	AV	Vertical
7320.37	52.72	1.15	53.87	74	-20.13	Pk	Vertical
7320.37	40.38	1.15	41.53	54	-12.47	AV	Vertical
4880.19	48.38	0.68	49.06	74	-24.94	Pk	Horizontal
4880.19	29.38	0.68	30.06	54	-23.94	AV	Horizontal
7320.68	39.58	0.27	39.85	74	-34.15	Pk	Horizontal
7320.68	27.65	0.27	27.92	54	-26.08	AV	Horizontal
High Channel (2480MHz)- Above 1G							
4960.18	54.68	1.82	56.5	74	-17.5	Pk	Vertical
4960.18	42.66	1.82	44.48	54	-9.52	AV	Vertical
7440.43	51.04	1.37	52.41	74	-21.59	Pk	Vertical
7440.43	40.57	1.37	41.94	54	-12.06	AV	Vertical
4960.08	49.37	0.74	50.11	74	-23.89	Pk	Horizontal
4960.08	30.75	0.74	31.49	54	-22.51	AV	Horizontal
7440.21	41.72	0.46	42.18	74	-31.82	Pk	Horizontal
7440.21	33.25	0.46	33.71	54	-20.29	AV	Horizontal

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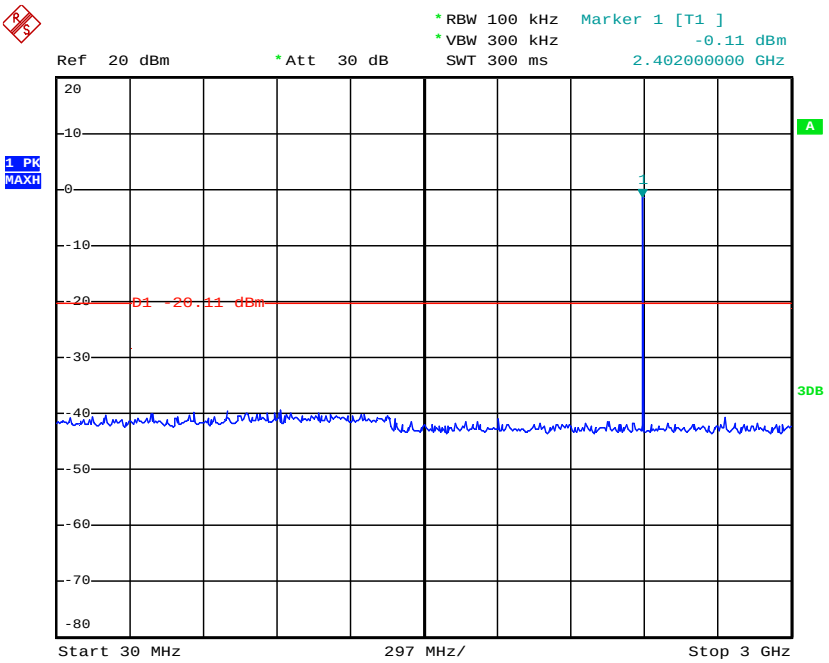
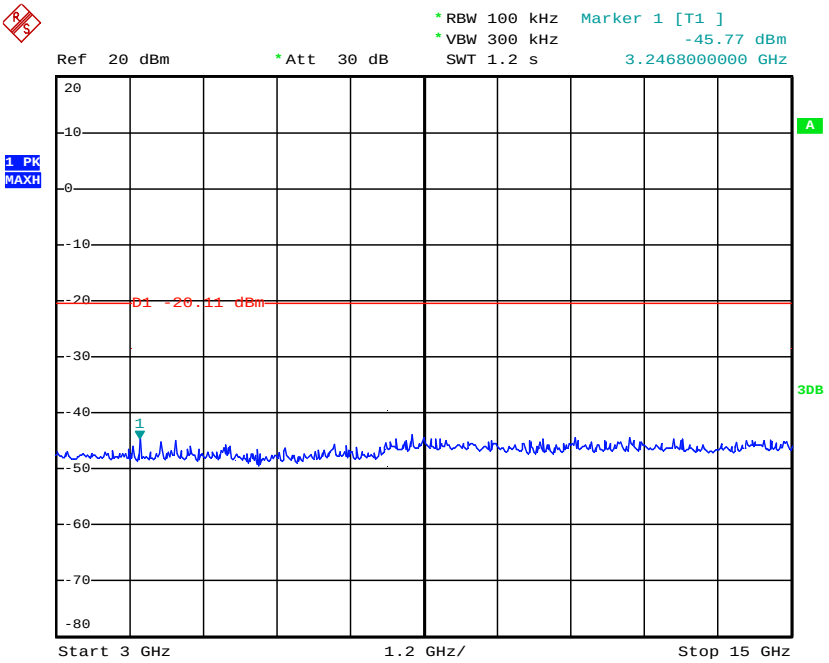
Conducted Spurious Emissions at Antenna Port:

Low Channel





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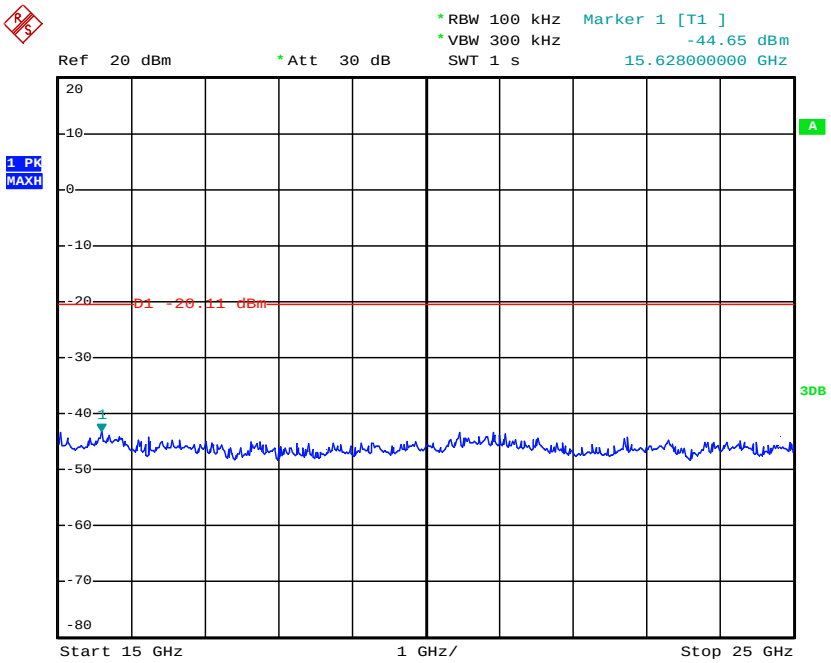
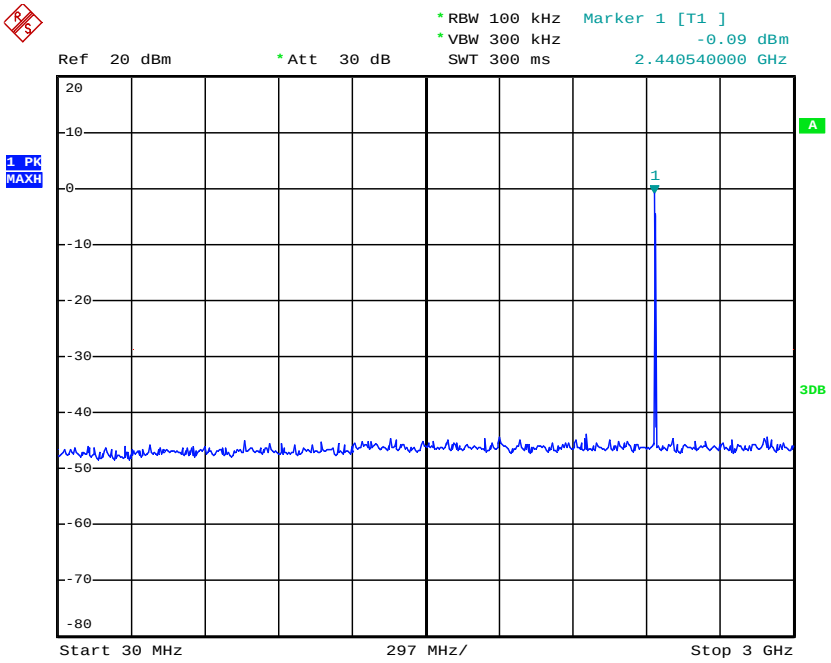


Middle Channel



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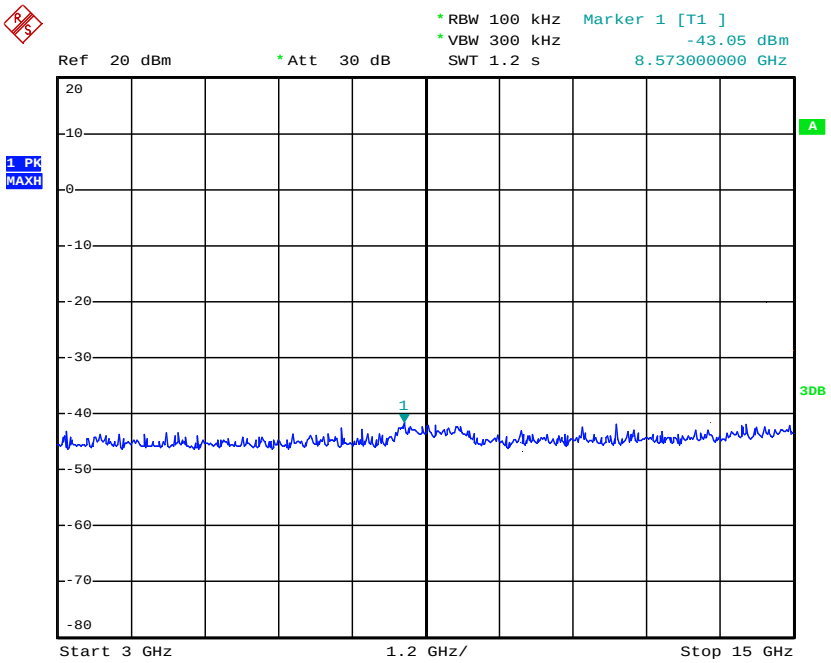

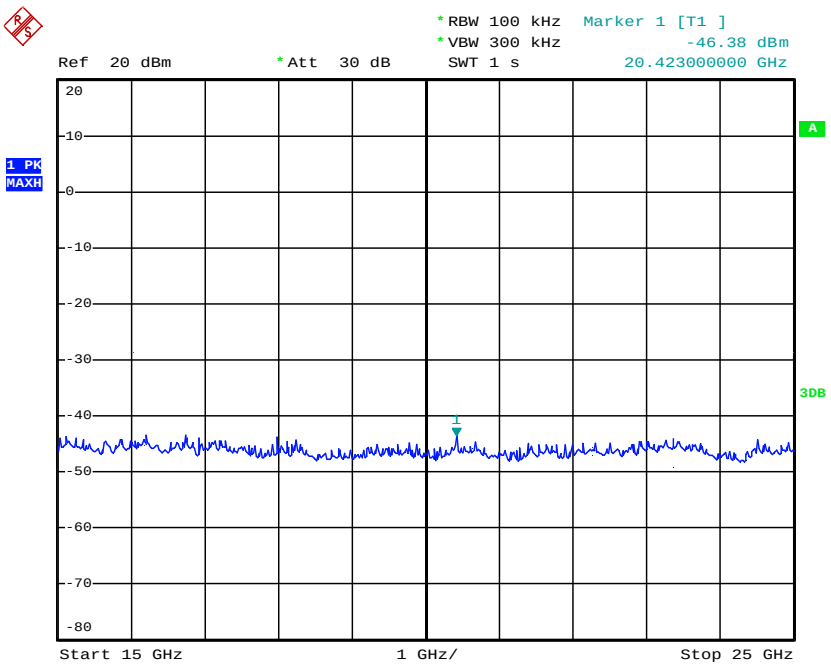

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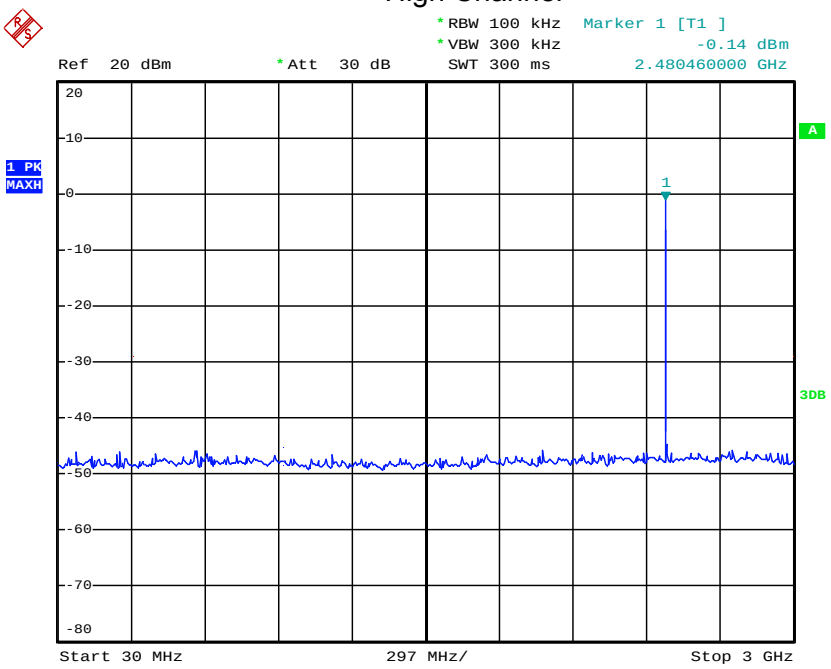
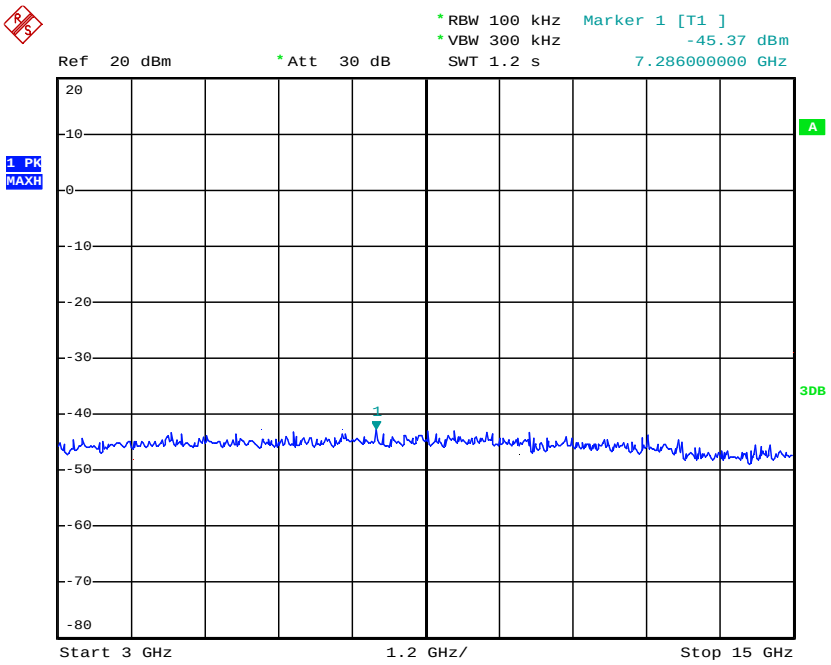
High Channel





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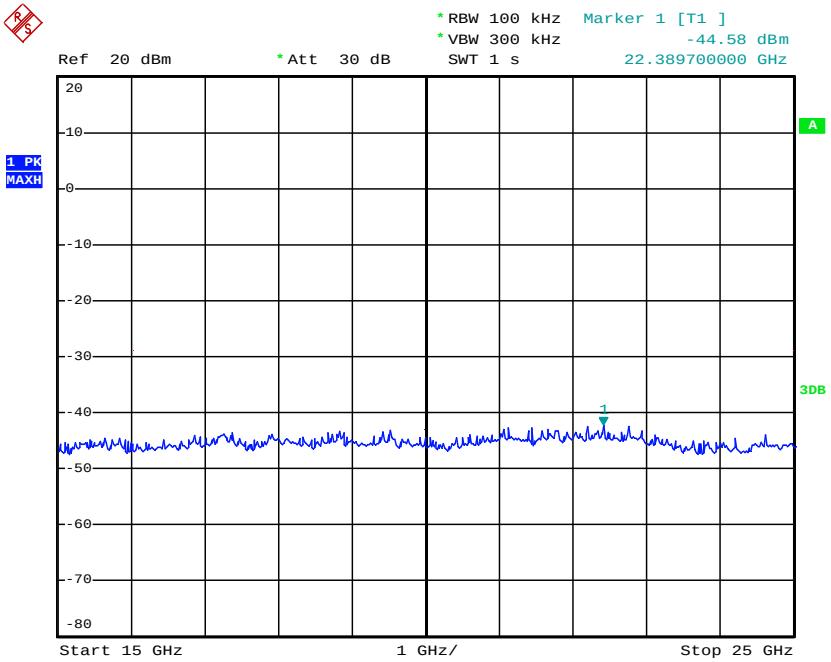

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4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C&A8.2				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247&A8.2	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

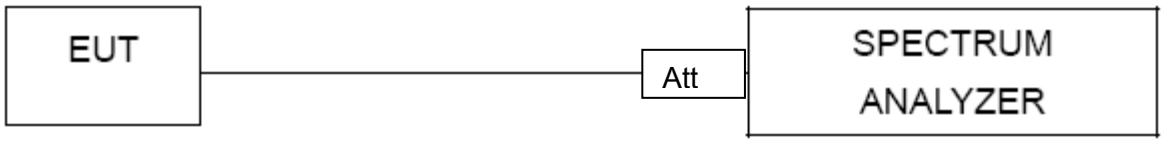
4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

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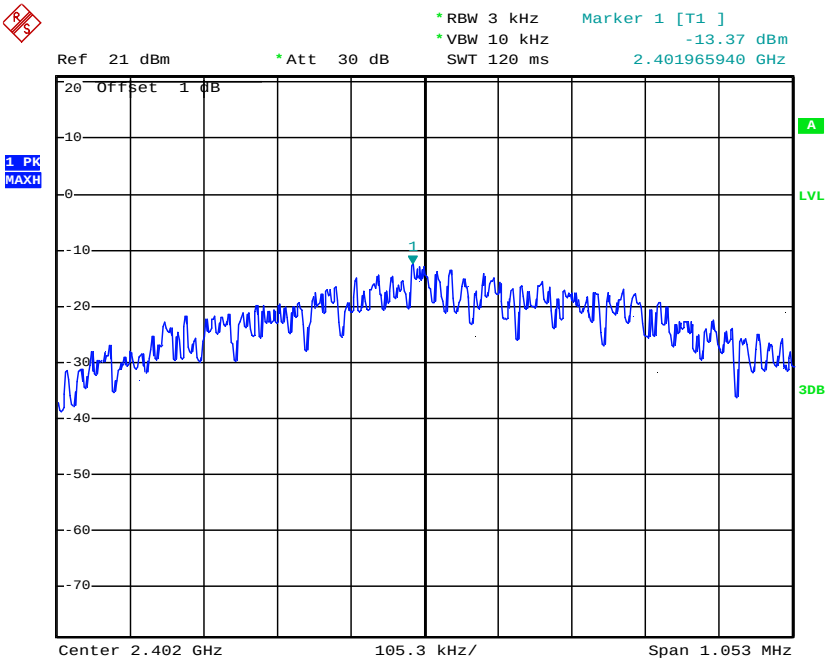
4.1.5 TEST RESULTS

EUT：	Budiu Blue Button	Model Name ：	blue button
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.0V
Test Mode ：	TX Mode /CH00, CH19, CH39		

Note: The relevant measured result has the offset with cable loss already.

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402 MHz	-13.37	8	PASS
2440 MHz	-11.46	8	PASS
2480 MHz	-12.15	8	PASS

TX CH00



TX CH19

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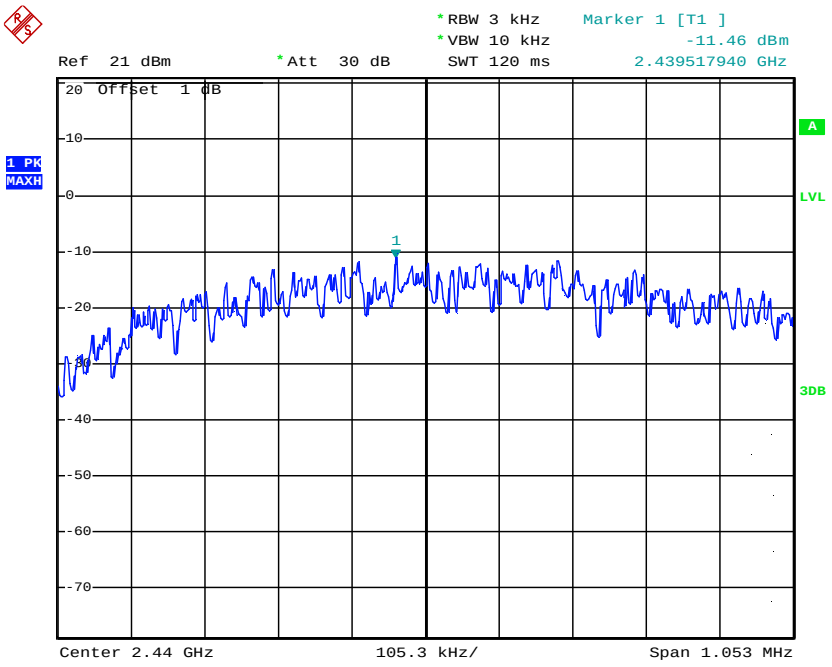
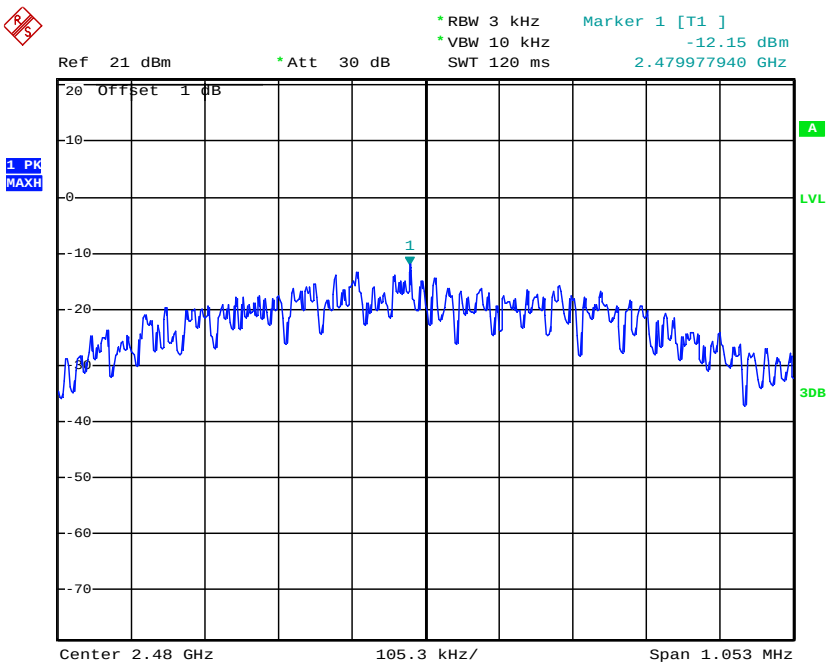


TX CH39



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5. BANDWIDTH TEST

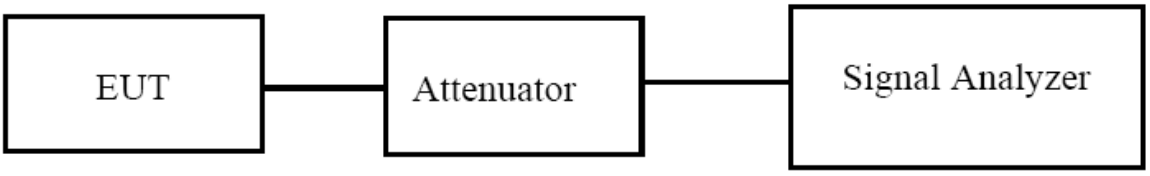
5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C&A8.2				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2) &A8.2	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

According to KDB 558074 D01 DTS Meas Guidance v03r03

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



5.1.2 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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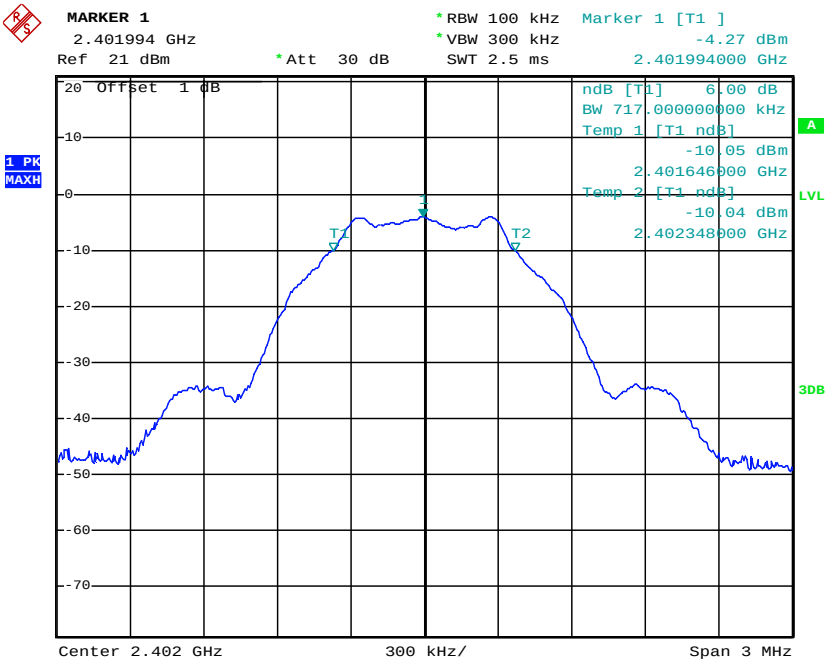
5.1.3 TEST RESULTS

EUT：	Budiu Blue Button	Model Name ：	blue button
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.0V
Test Mode ：	TX Mode /CH00, CH19, CH39		

Channel	Frequency (MHz)	6dB bandwidth (kHz)	99% bandwidth (MHz)	Limit (kHz)	Result
Low	2402	717.00	/	＞500	Pass
Middle	2440	721.00	/	＞500	Pass
High	2480	726.00	/	＞500	Pass

TX CH 00



TX CH 19

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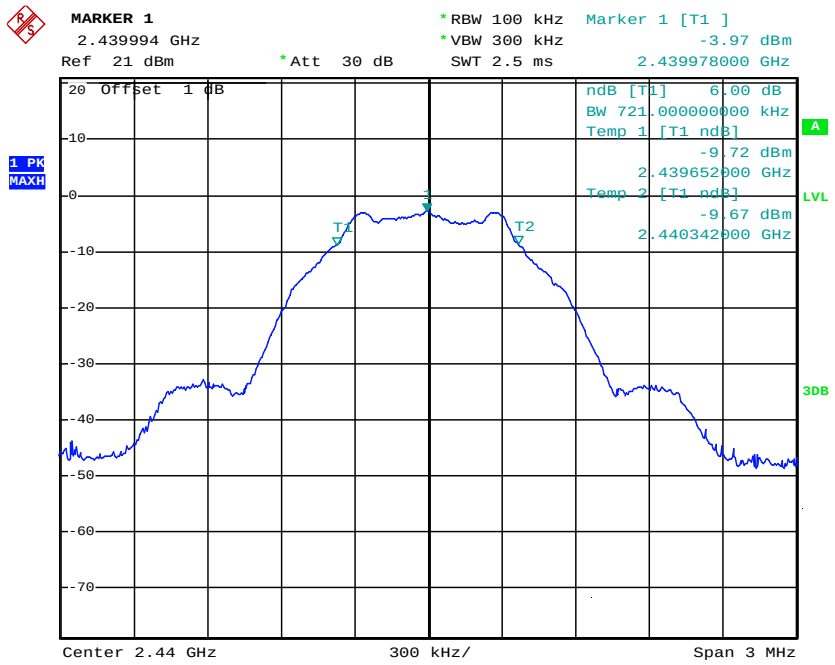
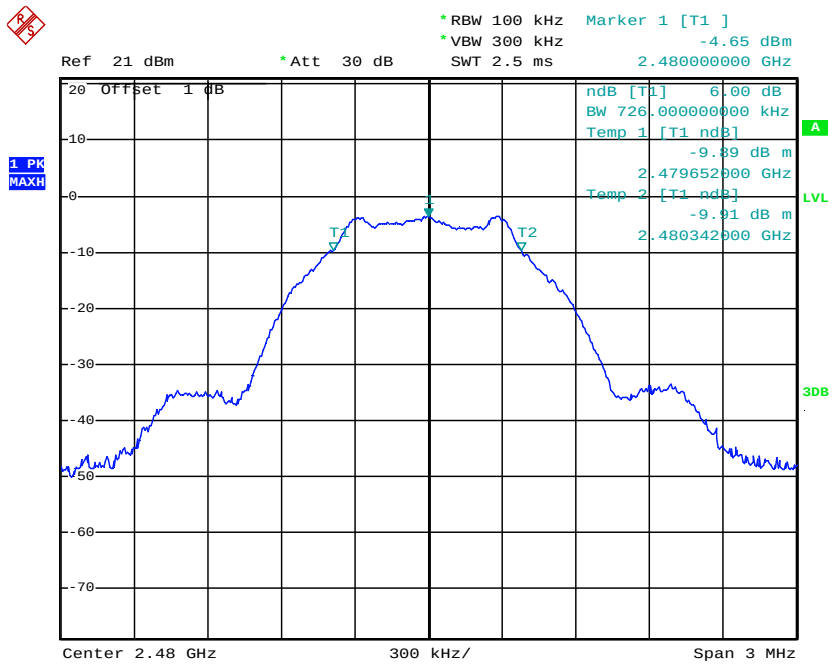


TX CH 39



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6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C &A8.4				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) &A8.4	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

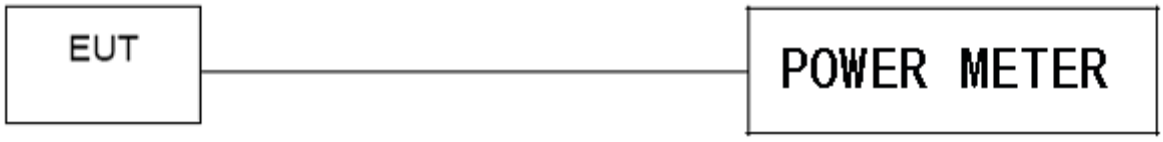
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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6.1.5 TEST RESULTS

EUT：	Budiu Blue Button	Model Name ：	blue button
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.0V
Test Mode ：	TX Mode		

TX Mode			
Test Channe	Frequency	Maximum Conducted Output Power （PK）	LIMIT
	(MHz)	(dBm)	dBm
CH00	2402	0	30
CH19	2440	-0.02	30
CH39	2480	-0.08	30

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7. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a)&A1.1 is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a)&A8.5, must also comply with the radiated emission limits specified in §15.209(a) &A1.1 (see §15.205(c)) &A8.5.

TEST PROCEDURE

a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
e) Repeat above procedures until all measured frequencies were complete.

7.1 DEVIATION FROM STANDARD

No deviation.

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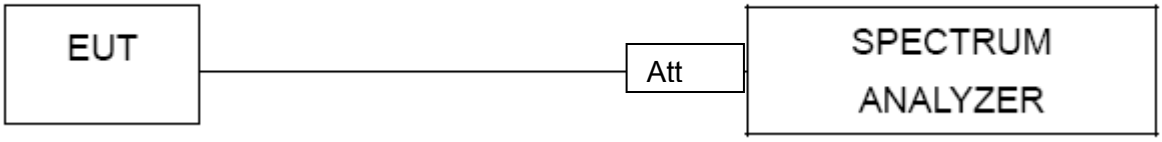
7.2 TEST SETUP



7.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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7.4 TEST RESULTS

EUT：	Budiu Blue Button	Model Name ：	blue button
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.0V

Frequency Band	Delta Peak to band emission (dBc)	＞Limit (dBc)	Result
Left-band	44.08	20	Pass
Right-band	45.30	20	Pass

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
2390	49.68	1.05	50.73	74	-23.27	peak	Vertical
2390	47.35	1.05	48.4	74	-25.6	peak	Horizontal
2483.5	45.16	1.29	46.45	74	-27.55	peak	Vertical
2483.5	44.98	1.29	46.27	74	-27.73	peak	Horizontal

Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average not record.

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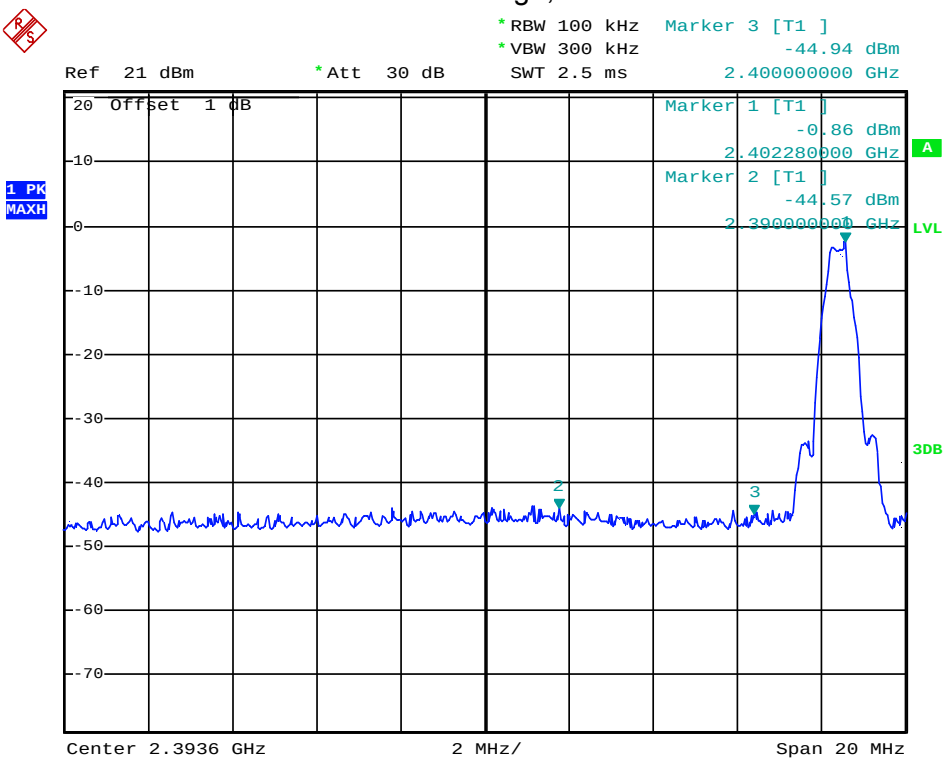
Band Edge, Left Side



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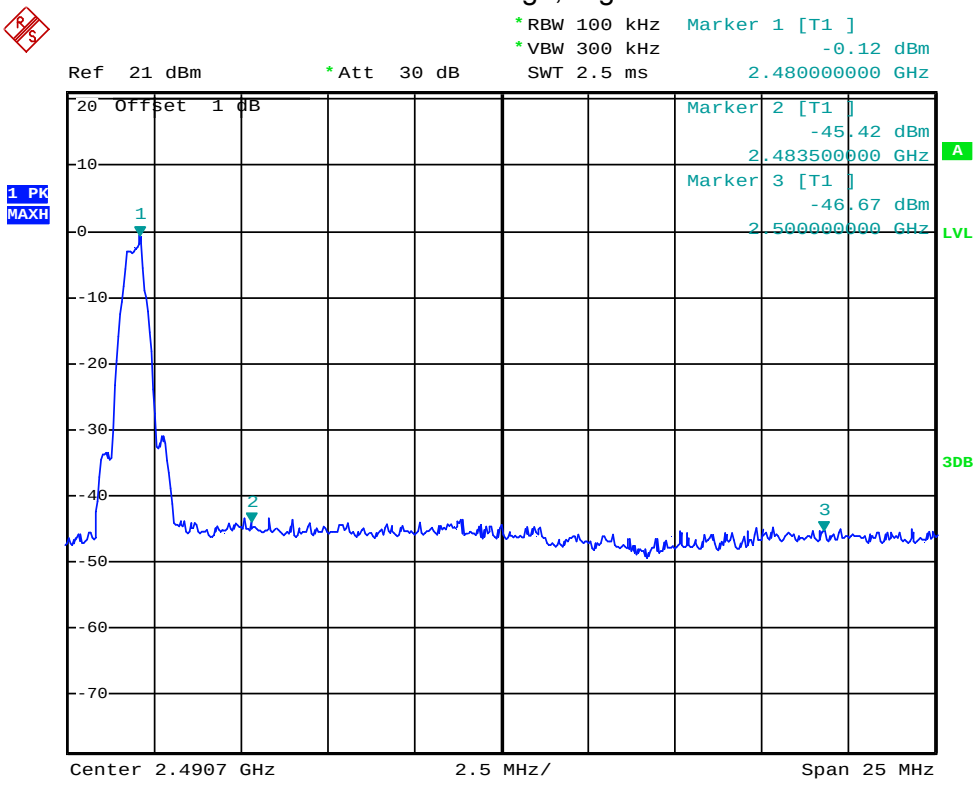
Band Edge, Right Side



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8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

8.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

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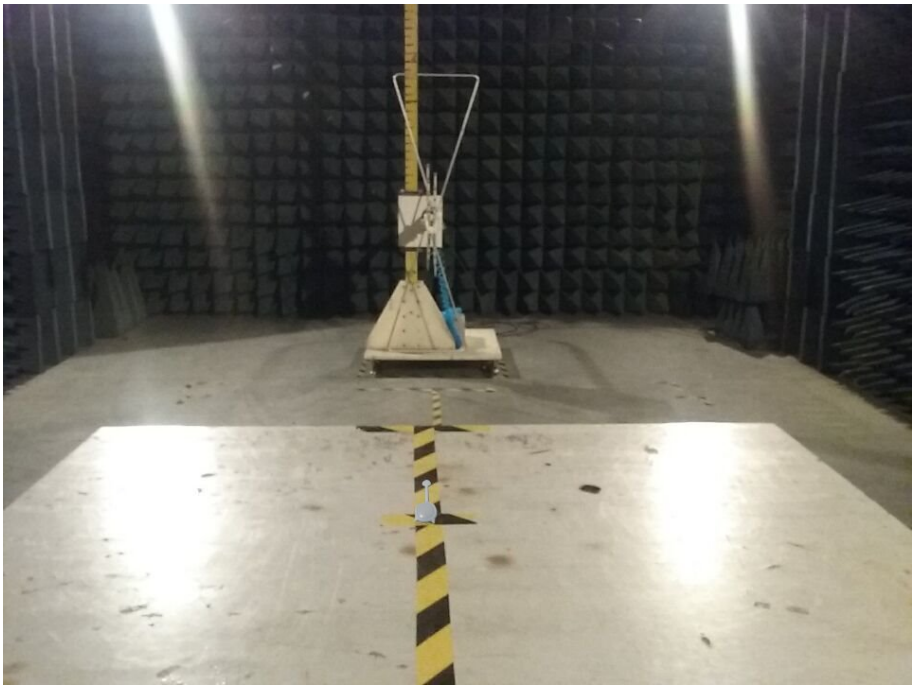
9. EUT TEST PHOTO

Radiated Measurement Photos



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