FCC RADIO TEST REPORT
FCC ID: 2AD4EBFER-G20A

Product： Remote control

Trade Name： BACKFIRE

Model Name： BFER-G20A

Serial Model： N/A

Report No.： POCE17090436QRF

Prepared for

SHANGHAI SO-FUN SPORTS EQUIPMENT CO.,LTD

3rd floor, Building 5, NO76 Jinma Road, Jiuting Town, Songjiang District, Shanghai, China

Prepared by

Shenzhen POCE Technology Co.,Ltd.

Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District,Shenzhen, China

TEST RESULT CERTIFICATION

Applicant's name ..... SHANGHAI SO-FUN SPORTS EQUIPMENT CO.,LTD
Address..... 3rd floor, Building 5, NO76 Jinma Road, Jiuting Town, Songjiang District, Shanghai, China

Manufacture's Name.. SHANGHAI SO-FUN SPORTS EQUIPMENT CO.,LTD
Address..... 3rd floor, Building 5, NO76 Jinma Road, Jiuting Town, Songjiang District, Shanghai, China

Product description

Product name ..... Remote control

Model and/or type reference..... BFER-G20A

Trade Name BACKFIRE

Standards ..... FCC Part15.247, KDB558074 D01 DTS Meas Guidance v03r03

Test procedure ..... ANSI C63.10: 2013

This device described above has been tested by POCE, 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 ..... 3 Jun. 2017 ~18 Jun. 2017

Date of Issue ..... 18 Jun. 2017

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

Testing Engineer : 
(Ken Li)

Technical Manager : 
(Jimmy Yao)

Authorized Signatory : 

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C KDB558074 D01 DTS Meas Guidance v03r05			
Standard Section	Test Item	Judgment	Remark
15.207(a)	AC Conducted Emission	N/A	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3) 15.31(e)	Peak Output Power	PASS	
15.247 (d) 15.205	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247(d), 15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

1.1 TEST FACILITY

Shenzhen POCE Technology Co.,Ltd.

Add.: Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen, China

FCC-Registration No.: 222278

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%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Remote control</td></tr>
<tr><td>Trade Name</td><td>BACKFIRE</td></tr>
<tr><td>Model Name</td><td>BFER-G20A</td></tr>
<tr><td>Serial Model</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>All the same,Only model name is different.</td></tr>
<tr><td>Product Description</td><td>The EUT is a Remote control
<table>
<tr><td>Operation Frequency:</td><td>2402~2480 MHz</td></tr>
<tr><td>Modulation Type:</td><td>GFSK</td></tr>
<tr><td>Bluetooth</td><td>Bluetooth 4.0</td></tr>
<tr><td>Number Of Channel</td><td>16 CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Output Power(Peak):</td><td>7.928dbm</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>2 dbi</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Battery</td><td>DC3.6V</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

Note:

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

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2454				
01	2405	11	2457				
02	2408	12	2471				
03	2411	13	2474				
04	2425	14	2477				
05	2428	15	2480				
06	2431						
07	2440						
08	2448						
09	2451						

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PCB antenna	N/A	2.0	N/A

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	TX 2402
Mode 2	TX 2440
Mode 3	TX 2480
Mode 4	Link Mode

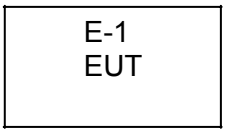
For Conducted Emission	
Final Test Mode	Description
Mode 4	N/A

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX 2402
Mode 2	TX 2440
Mode 3	TX 2480
Mode 4	Link Mode

Note:

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

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Remote control	BACKFIRE	BFER-G20A	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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.09.06	2017.09.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.09.07	2017.09.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.09.06	2017.09.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.09.07	2017.09.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.09.07	2017.09.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2016.09.06	2017.09.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.09.06	2017.09.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.12.22	2017.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.09.08	2017.09.07	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2016.09.06	2017.09.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.09.07	2017.09.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.09.07	2017.09.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.09.08	2017.09.07	1 year

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

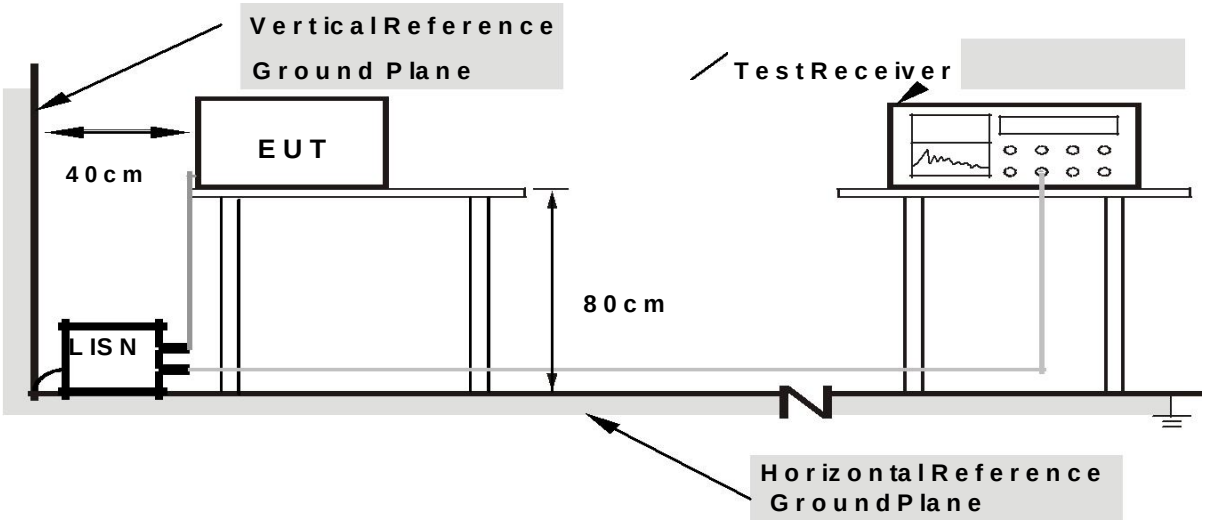
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 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 80cm 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.

3.1.6 TEST RESULTS

EUT：	Remote control	Model Name. ：	BFER-G20A
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase :	L
Test Voltage ：	N/A	Test Mode：	N/A

NOTE: To Conducted Emission, not suitable for battery devices.

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), then the 15.209(a) limit in the table below 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

Above 1GHz

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

Below 1GHz

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:

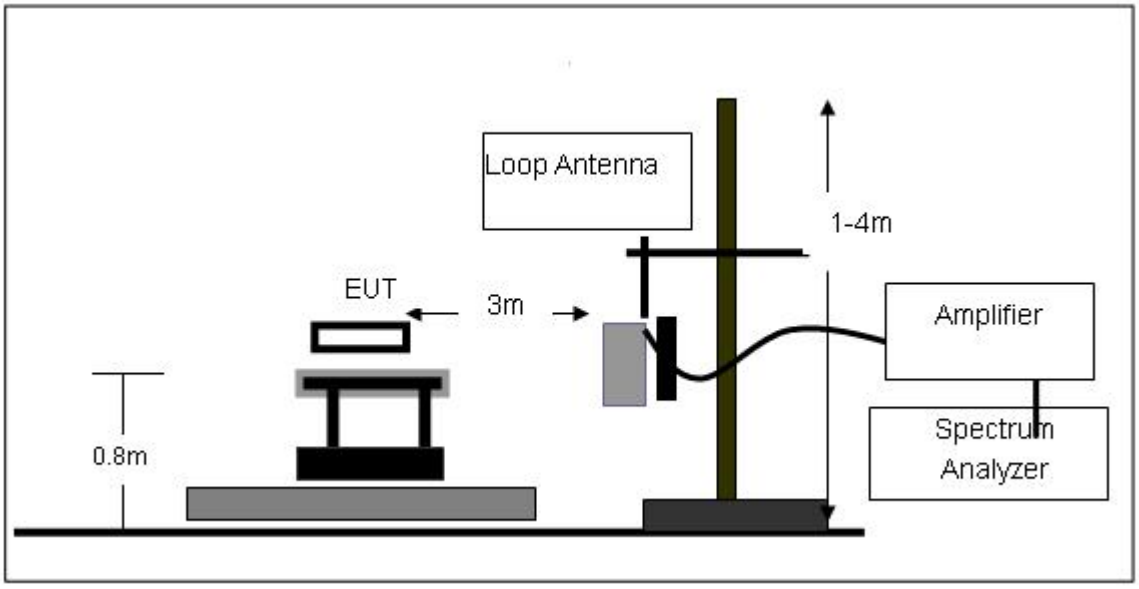
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

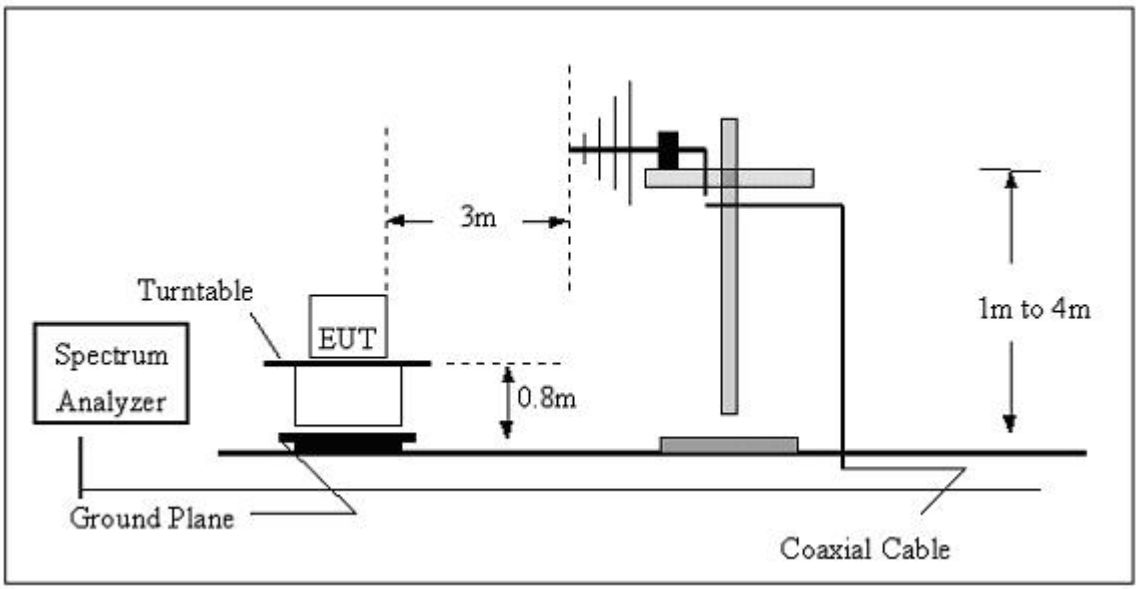
No deviation

3.2.4 TEST SETUP

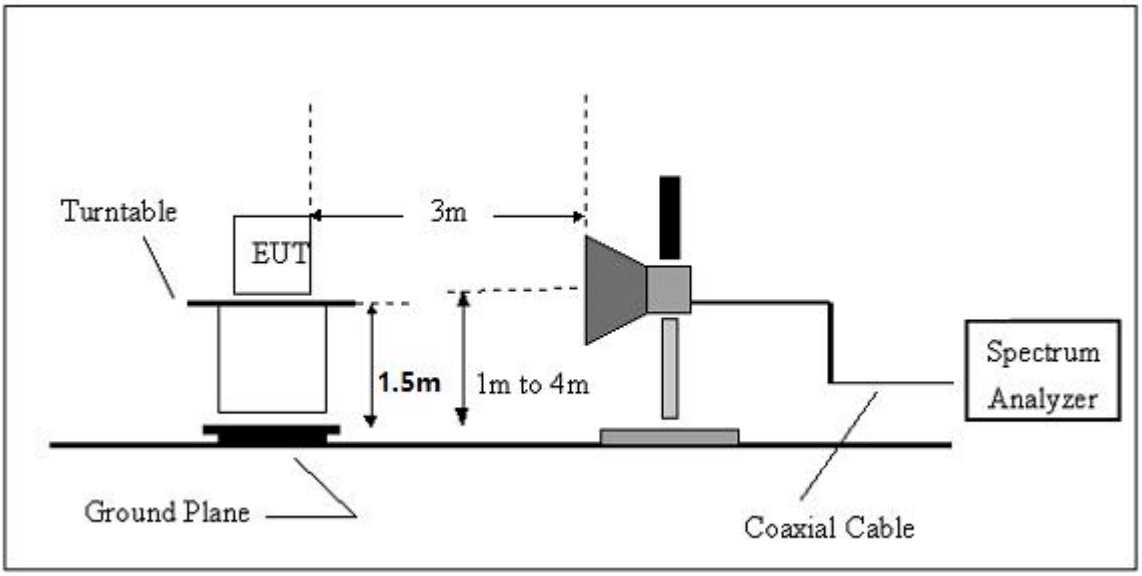
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



（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.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	Remote control	Model Name. ：	BFER-G20A
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC3.6V
Test Mode ：	TX	Polarization :	--

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

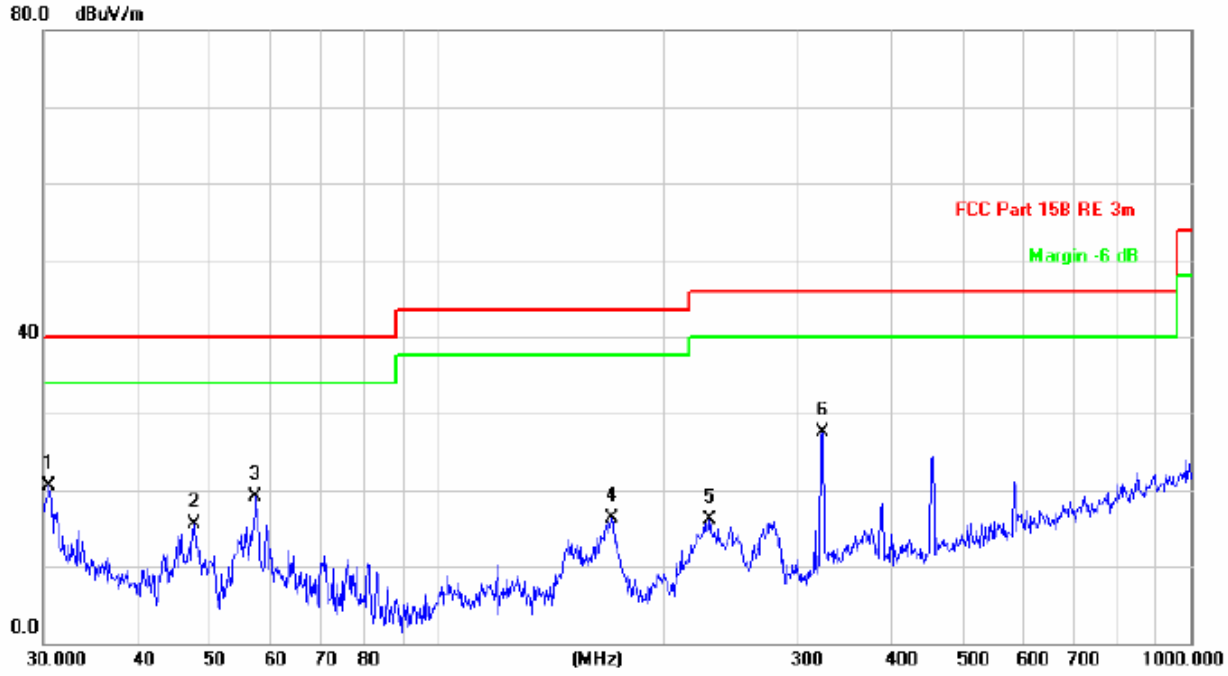
NOTE:

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.

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC3.6V

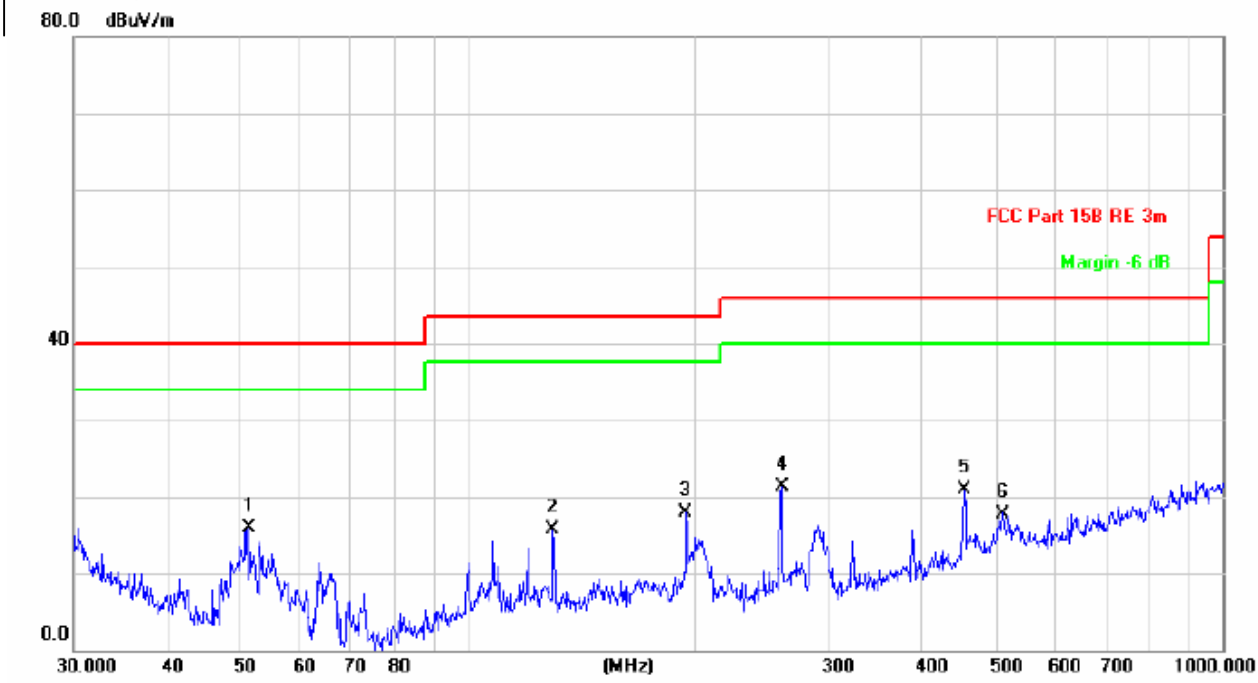
Test Mode ： Mode 4 , the worst mode.



Chamber #1 Polarization: *Horizontal* Temperature:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.4238	26.19	-5.68	20.51	40.00	-19.49	QP			
2		47.4918	33.57	-18.04	15.53	40.00	-24.47	QP			
3		57.3923	39.49	-20.30	19.19	40.00	-20.81	QP			
4		170.1948	31.73	-15.50	16.23	43.50	-27.27	QP			
5		230.0985	31.42	-15.30	16.12	46.00	-29.88	QP			
6	*	324.4561	39.69	-12.27	27.42	46.00	-18.58	QP			

EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC3.6V
Test Mode ： Mode 4 , the worst mode.			



Chamber #1 Polarization: *Vertical* Temperature:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	51.1209	35.84	-20.02	15.82	40.00	-24.18	QP			
2		129.4677	29.54	-13.85	15.69	43.50	-27.81	QP			
3		194.4534	33.50	-15.67	17.83	43.50	-25.67	QP			
4		260.1444	35.06	-13.77	21.29	46.00	-24.71	QP			
5		454.3100	30.18	-9.23	20.95	46.00	-25.05	QP			
6		510.0436	25.74	-7.94	17.80	46.00	-28.20	QP			

3.2.8 TEST RESULTS (1 GHZ-25GHZ)

EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC3.6V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2402 MHz)-Above 1G							
4804.59	56.10	-3.64	52.46	74.00	-21.54	Pk	Vertical
4804.59	40.10	-3.64	36.46	54.00	-17.54	AV	Vertical
7206.54	60.99	-0.95	60.04	74.00	-13.96	Pk	Vertical
7206.54	42.10	-0.95	41.15	54.00	-12.85	AV	Vertical
4804.70	59.32	-3.64	55.68	74.00	-18.32	Pk	Horizontal
4804.70	42.43	-3.64	38.79	54.00	-15.21	AV	Horizontal
7206.62	57.89	-0.95	56.94	74.00	-17.06	Pk	Horizontal
7206.62	42.07	-0.95	41.12	54.00	-12.88	AV	Horizontal
Mid Channel (2440 MHz)-Above 1G							
4880.64	60.99	-3.68	57.31	74.00	-16.69	Pk	Vertical
4880.64	39.32	-3.68	35.64	54.00	-18.36	AV	Vertical
7320.54	59.32	-0.82	58.50	74.00	-15.50	Pk	Vertical
7320.54	41.99	-0.82	41.17	54.00	-12.83	AV	Vertical
4880.62	59.07	-3.68	55.39	74.00	-18.61	Pk	Horizontal
4880.62	41.76	-3.68	38.08	54.00	-15.92	AV	Horizontal
7320.47	58.10	-0.82	57.28	74.00	-16.72	Pk	Horizontal
7320.47	41.99	-0.82	41.17	54.00	-12.83	AV	Horizontal
High Channel (2480 MHz)- Above 1G							
4960.95	57.89	-3.59	54.30	74.00	-19.70	Pk	Vertical
4960.95	40.76	-3.59	37.17	54.00	-16.83	AV	Vertical
7440.66	58.07	-0.68	57.39	74.00	-16.61	Pk	Vertical
7440.66	40.07	-0.68	39.39	54.00	-14.61	AV	Vertical
4960.54	58.32	-3.59	54.73	74.00	-19.27	Pk	Horizontal
4960.54	40.40	-3.59	36.81	54.00	-17.19	AV	Horizontal
7440.70	61.76	-0.68	61.08	74.00	-12.92	Pk	Horizontal
7440.70	41.21	-0.68	40.53	54.00	-13.47	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3)All other emissions more than 20dB below the limit.

EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC3.6V

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
1Mbps							
2326.72	61.39	-13.06	48.33	74	-25.67	Pk	Vertical
2326.72	55.53	-13.06	42.47	54	-11.53	AV	Vertical
2400	64.57	-13.06	51.51	74	-22.49	Pk	Vertical
2400	55.04	-13.06	41.98	54	-12.02	AV	Vertical
2378.23	61.27	-13.06	48.21	74	-25.79	Pk	Horizontal
2378.23	56.42	-13.06	43.36	54	-10.64	AV	Horizontal
2400	65.02	-13.06	51.96	74	-22.04	Pk	Horizontal
2400	55.85	-13.06	42.79	54	-11.21	AV	Horizontal
2483.5	62.1	-12.78	49.32	74	-24.68	Pk	Vertical
2483.5	61.62	-12.78	48.84	54	-5.16	AV	Vertical
2483.5	61.82	-12.78	49.04	74	-24.96	Pk	Horizontal
2483.5	61.48	-12.78	48.7	54	-5.30	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

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

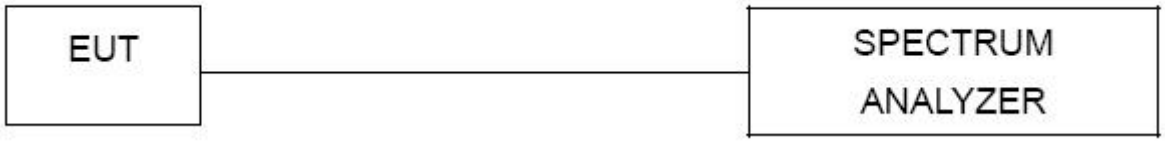
4.1.1 TEST PROCEDURE

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

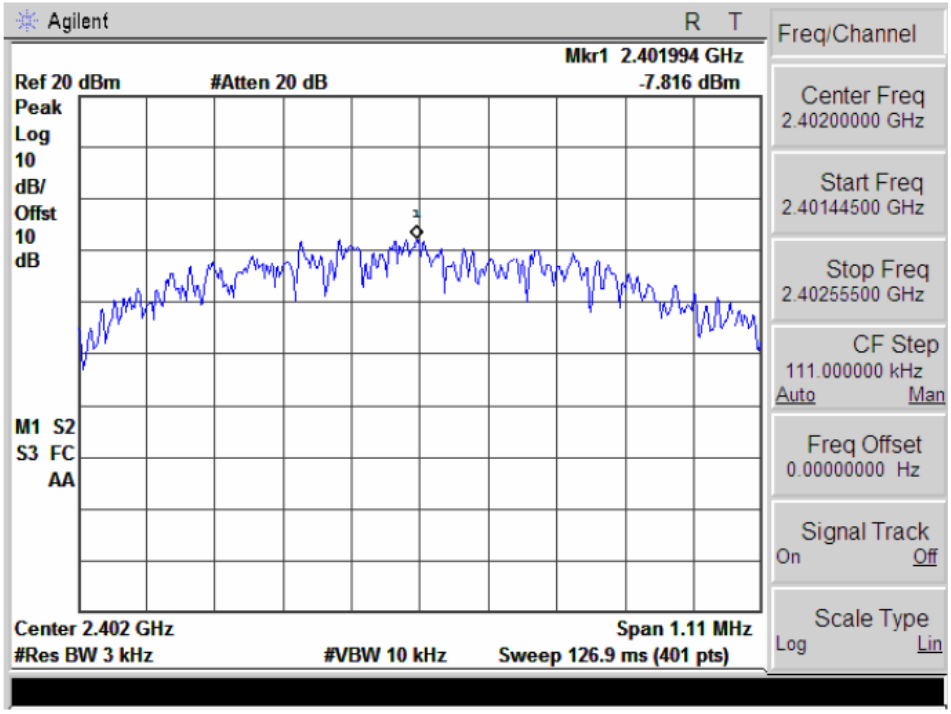
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

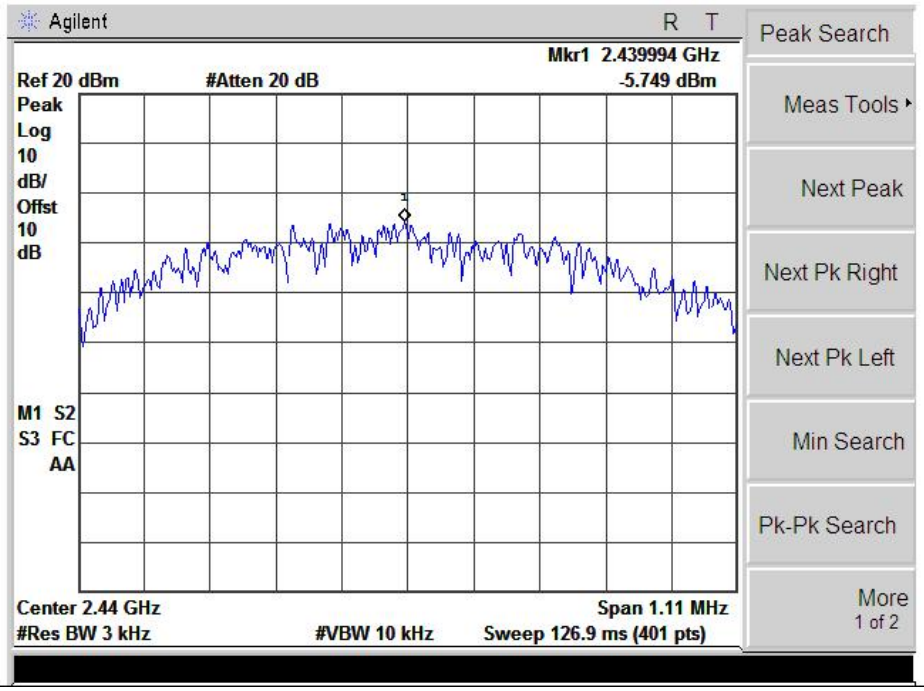
EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC3.6V
Test Mode ：	TX Mode /CH00, CH19, CH39		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-7.816	8	**PASS**
2440 MHz	-5.749	8	**PASS**
2480 MHz	-6.518	8	**PASS**

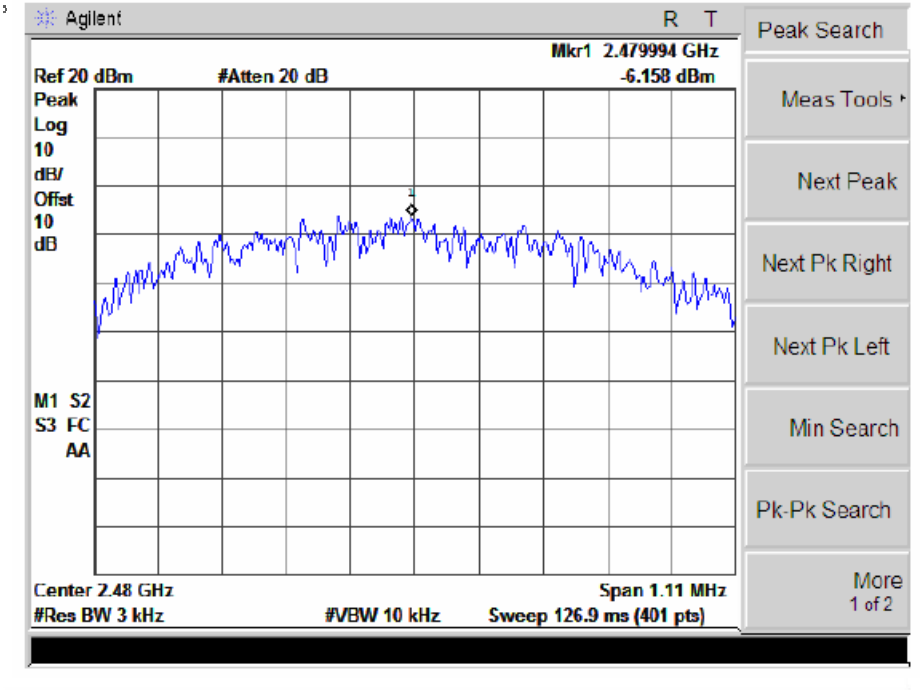
TX CH00



TX CH19



TX CH39



5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

5.1.4 EUT OPERATION CONDITIONS

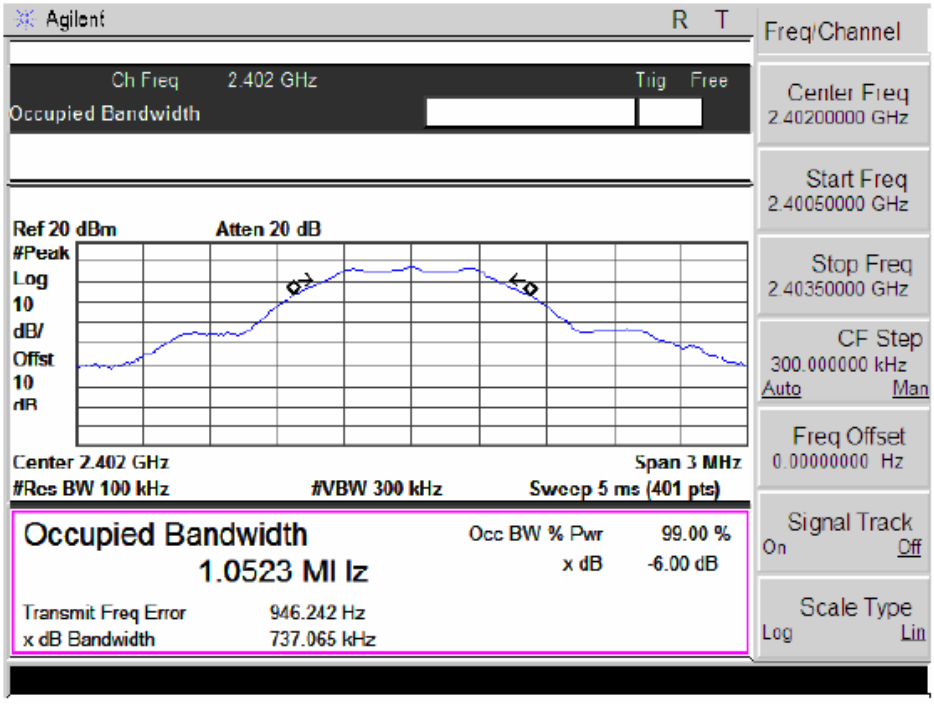
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

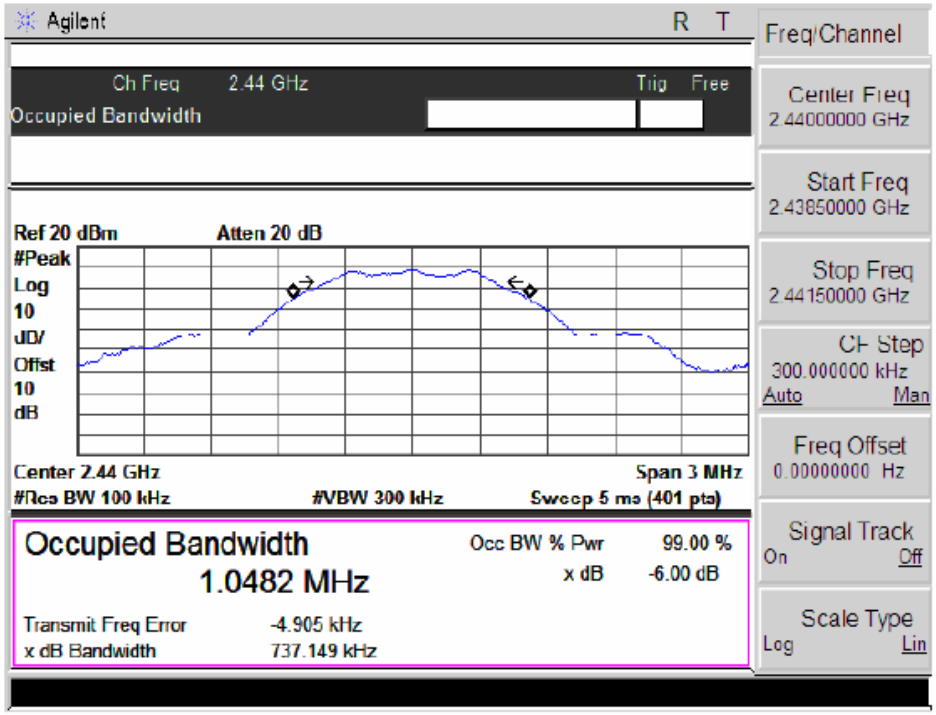
EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC3.6V
Test Mode ：	TX Mode/CH00, CH19, CH39		

Frequency	6dB Bandwidth (kHz)	Channel Separation (MHz)	Result
2402 MHz	737.065	>=500KHz	PASS
2440 MHz	737.149	>=500KHz	PASS
2480 MHz	735.576	>=500KHz	PASS

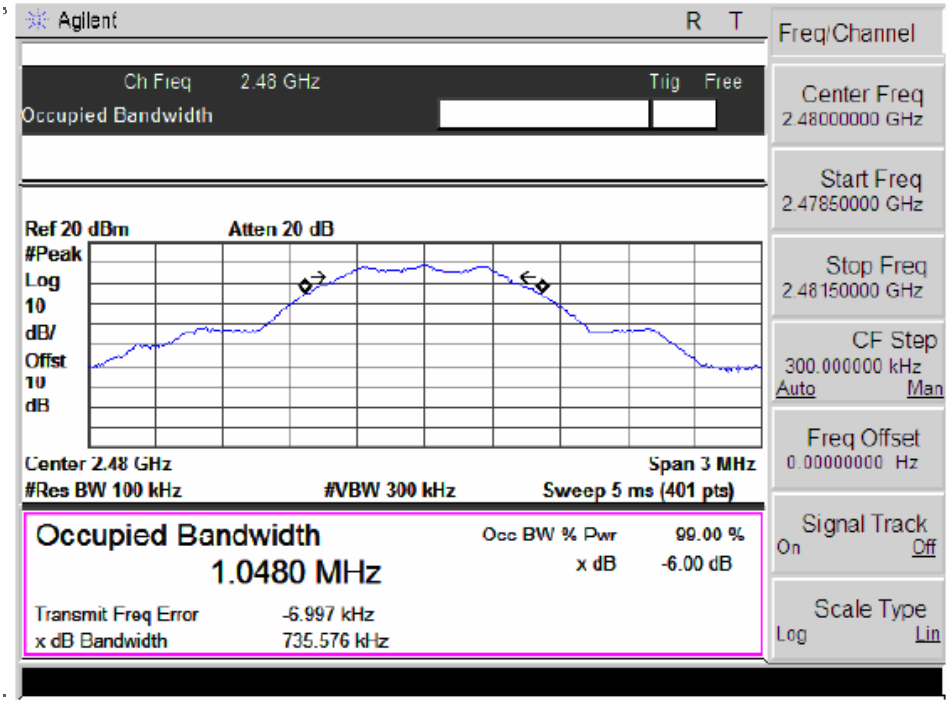
TX CH 00



TX CH 19



TX CH 39



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to spectrum analyzer

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

6.1.4 EUT OPERATION CONDITIONS

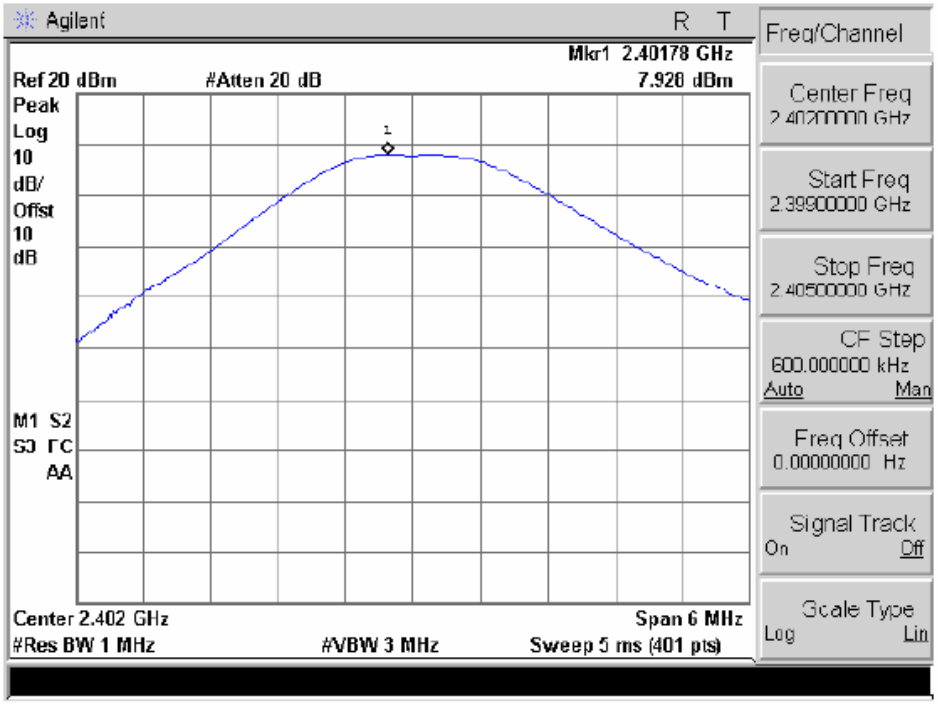
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

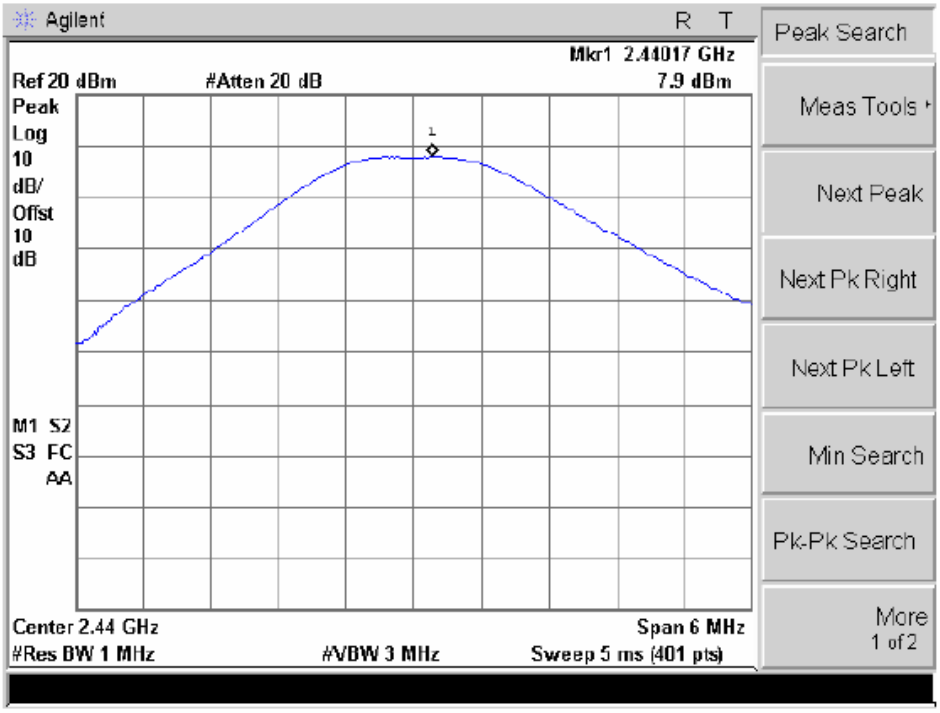
EUT：	Remote control	Model Name ：	BFER-G20A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC3.6V
Test Mode ：	TX Mode /CH00, CH19, CH39		

Test Channe	Frequency	Maximum Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH00	2402	7.928	30
CH19	2440	7.900	30
CH39	2480	7.543	30

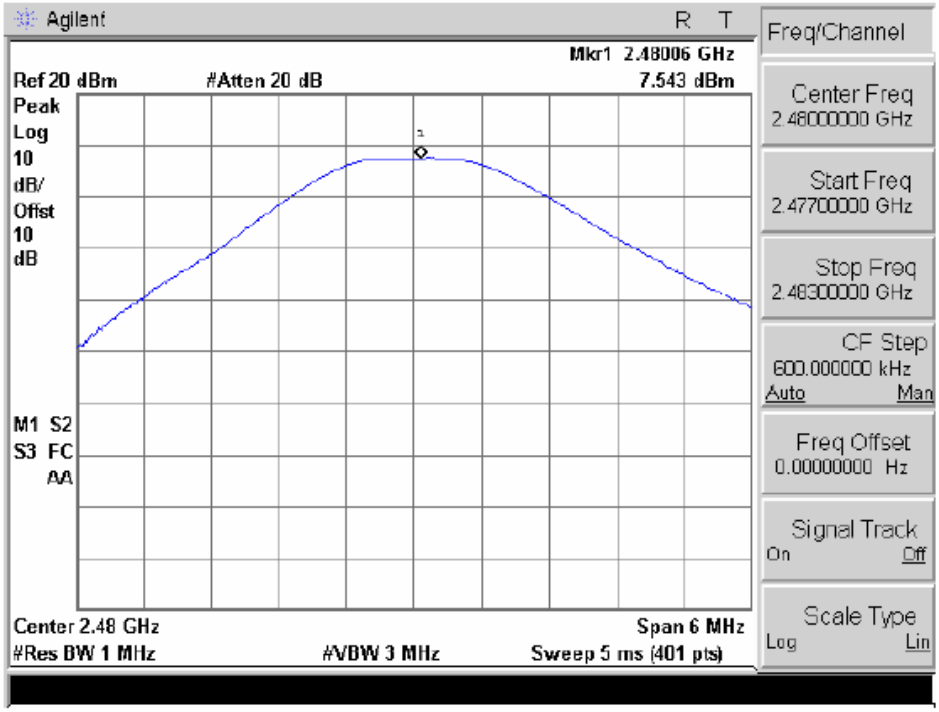
TX CH 00



TX CH 19


Agilent
R T
Mkr1 2.44017 GHz
Ref 20 dBm
#Atten 20 dB
7.9 dBm
Peak
Log
10
dB/
Offst
10
dB
M1 S2
S3 FC
AA
Center 2.44 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 6 MHz
Sweep 5 ms (401 pts)
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

TX 39


Agilent
R T
Mkr1 2.48006 GHz
Ref 20 dBm
#Atten 20 dB
7.543 dBm
Peak
Log
10
dB/
Offst
10
dB
M1 S2
S3 FC
AA
Center 2.48 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 6 MHz
Sweep 5 ms (401 pts)
Freq/Channel
Center Freq
2.48000000 GHz
Start Freq
2.47700000 GHz
Stop Freq
2.48300000 GHz
CF Step
600.000000 kHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

7. ANTENNA REQUIREMENT

7.1 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.

7.2 EUT ANTENNA

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

8. EUT TEST PHOTO

Radiated Measurement Photos