

# **FCC Part 15C Test Report**

**FCC ID: 2ALXNBE8** 

Product Name:	Wireless Headset
Trademark:	BOROFONE
Model Name :	BE8
Serial Model:	TWS02, T7, T9S, BC3, BC4, BC5, BC6, BC7, BC8, BC9, BC10, BE22, BE23, BE24, BE25, BE26, BE27, BE28
Prepared For :	Borofone Technology Co.,Ltd
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Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Jun. 22 - Jul. 02, 2017
Date of Report :	Jul. 02, 2017
Report No.:	BCTC-FY170805329-1E

Report No.: BCTC-FY170805329-1E



### **VERIFICATION OF COMPLIANCE**

Applicant's name...... Borofone Technology Co.,Ltd

Address ....... Room 205, Block B, Weidonglong Business Building, Meilong

Road, Longhua New District, Shenzhen City, P. R. China

Manufacture's Name ...... Borofone Technology Co.,Ltd

Address ...... Room 205, Block B, Weidonglong Business Building, Meilong

Road, Longhua New District, Shenzhen City, P. R. China

**Product description** 

Product name .....: Wireless Headset

Trademark: BOROFONE

Model Name: BE8

Serial Model: TWS02, T7, T9S, BC3, BC4, BC5, BC6, BC7, BC8, BC9, BC10,

BE22, BE23, BE24, BE25, BE26, BE27, BE28

FCC Part15.249

Standards: ANSI C63.10-2013

This device described above has been tested by BCTC, 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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Test Result ...... Pass

Prepared by (Engineer)	Eric Yang	ri Tin
Reviewer(Supervisor)	Jade Yang	BEGING )E)
Approved(Manager)	Carson Zhang	CIC TECHNOLOGY



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#### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207(a)	Conducted Emission	PASS			
15.209(a)&&15.249(a) &15.249(c)&15.205(a)	Fundamental &Radiated Spurious Emission Measurement	PASS			
15.215(c)	Bandwidth	PASS			
15.249(d)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

#### 1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registration No.:187086

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately  $\mathbf{95}$  %  $^{\circ}$ 

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

Equipment	Wireless Headset		
Trade Name	<b>b</b> BOROFONE		
Model Name	BE8		
Serial Model	TWS02, T7, T9S, BC3, BE22, BE23, BE24, BE	BC4, BC5, BC6, BC7, BC8, BC9, BC10, 25, BE26, BE27, BE28	
Model Difference	All the same, Only mode	el name is different.	
Product Description	User's Manual, the EUT	2402~2480 MHz  GFSK, π /4 DPSK,8DPSK  1Mbps/2Mbps/3Mbps  79 CH  Please see Note 3.  n, features, or specification exhibited in is considered as an ITE/Computing EUT technical specification, please ial.	
Channel List	Please refer to the Note	2.	
Power supply	DC3.7V		
Connecting I/O Port(s)	Please refer to the User's Manual		
hardware version	-		
Software version	-		

## Note:

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



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2.

		Channe	el List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

#### 3.

# Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	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.

For All Mode	Description	Modulation Type
Mode 1	CH00	
Mode 2	CH39	GFSK, π /4 DPSK,8DPSK
Mode 3	CH78	DF3N,0DF3N
Mode 4	Link mode	

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

#### 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

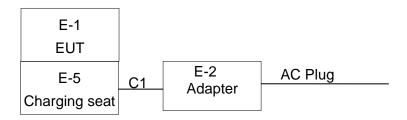
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Frequency	2402 MHz	2441 MHz	2480 MHz
Channel	Low	Middle	High

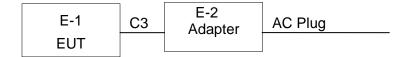


#### 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

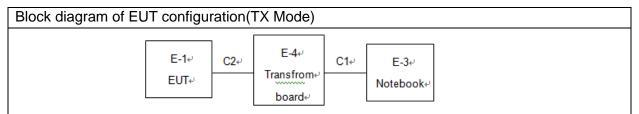
#### Conducted Emission



#### Radiated Spurious Emission Test



#### RF test setup:



#### Note:

- 1. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.
- 2. Using the notebook and the transform board to control the fixed transmitting frequency and other test mode. After finishing the test setting, the notebook and the transform board will be removed during measurements.



# 2.5 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.

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Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Headset	ს BOROFONE	BE8	N/A	EUT
E-2	Adapter	N/A	DYS624-080300W-K	N/A	N/A
E-3	Notebook	Lenovo	S2	N/A	Lab Provide
E-4	Transfrom board	N/A	N/A	N/A	N/A
E-5	Charging seat	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	0.8M	USB cable unshielded
C2	NO	NO	0.5M	Connection cable unshielded
C3	NO	NO	1.2M	USB cable unshielded

## 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 <code>"Length\_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



#### 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Radia	ation Test equipment						
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26	
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2016.08.27	2017.08.26	
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2016.08.27	2017.08.26	
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2016.09.03	2017.09.03	
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2016.09.03	2017.09.03	
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2016.08.27	2017.08.26	
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2016.08.27	2017.08.26	
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2016.08.27	2017.08.26	
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2016.09.03	2017.09.03	
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2016.08.27	2017.08.26	
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2016.08.27	2017.08.26	
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2016.08.27	2017.08.26	
13	Power Metter	ANRITSU	ML2487A	6K00001568	2016.08.27	2017.08.26	
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2016.08.27	2017.08.26	
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2016.08.27	2017.08.26	
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2016.08.27	2017.08.26	
17	D.C. Power Supply	LongWei	PS-305D	010964729	2016.08.27	2017.08.26	

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-1 01165-ha	2016.08.27	2017.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2016.08.27	2017.08.26
3	LISN	R&S	NSLK8126	8126487	2016.08.27	2017.08.26
4	RF cables	R&S	R204	R20X	2016.08.27	2017.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2016.08.27	2017.08.26



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

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FREQUENCY (MHz)	Limit (d	Standard	
PREQUENCY (MINZ)	Quas -peak	Average	Stariuaru
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	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



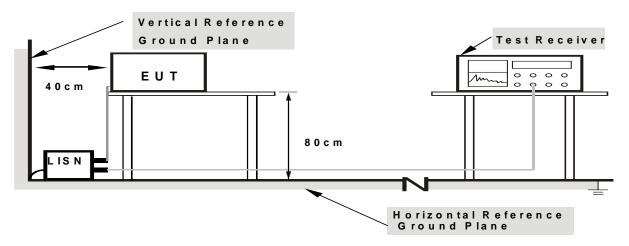
#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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

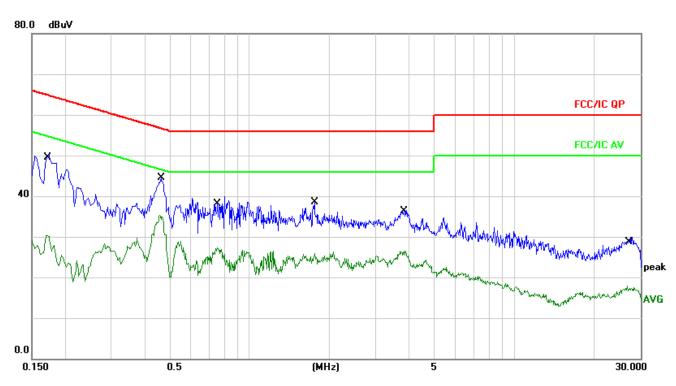
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



# 3.1.6 TEST RESULTS

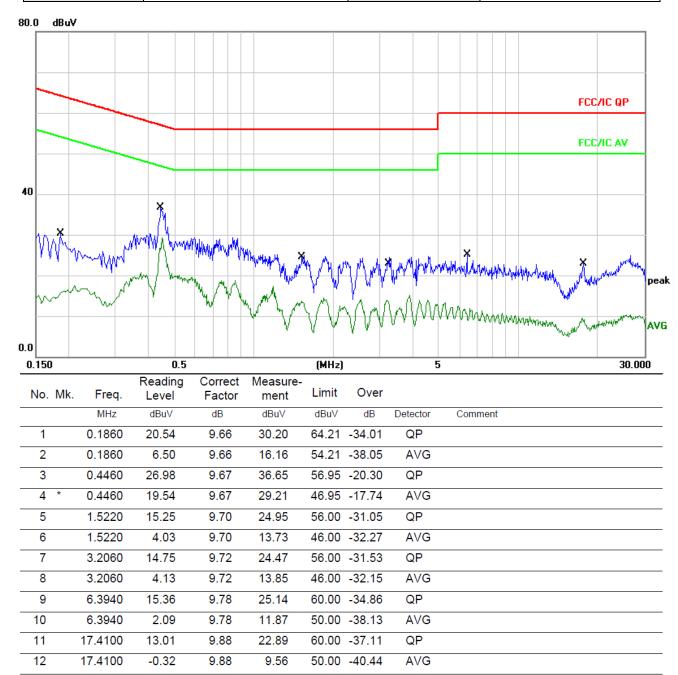
Temperature:	<b>25</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode:	Mode4



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1700	40.57	9.66	50.23	64.96	-14.73	QP	
2		0.1700	20.73	9.66	30.39	54.96	-24.57	AVG	
3		0.4580	34.80	9.68	44.48	56.73	-12.25	QP	
4	*	0.4580	25.61	9.68	35.29	46.73	-11.44	AVG	
5		0.7539	30.25	9.68	39.93	56.00	-16.07	QP	
6		0.7539	17.65	9.68	27.33	46.00	-18.67	AVG	
7		1.7620	28.76	9.71	38.47	56.00	-17.53	QP	
8		1.7620	16.14	9.71	25.85	46.00	-20.15	AVG	
9		3.8260	26.77	9.73	36.50	56.00	-19.50	QP	
10		3.8260	16.86	9.73	26.59	46.00	-19.41	AVG	
11		26.7700	20.06	9.87	29.93	60.00	-30.07	QP	
12		26.7700	8.06	9.87	17.93	50.00	-32.07	AVG	



Temperature :	<b>25</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode:	Mode4





#### 3.2 RADIATED EMISSION MEASUREMENT

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

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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.

DO TOTIOVACA.		
Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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)	Limit (dBu\	//m) (at 3M)
FREQUENCT (IVITIZ)	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

# FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower



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

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 25GHz. 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 and 1.5 meters above the ground at a 3 meter semi-chamber test. 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; above 1GHz, the height was 1.5m, 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.
- g. For the radiated emission test above 1GHz:
  - 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. 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

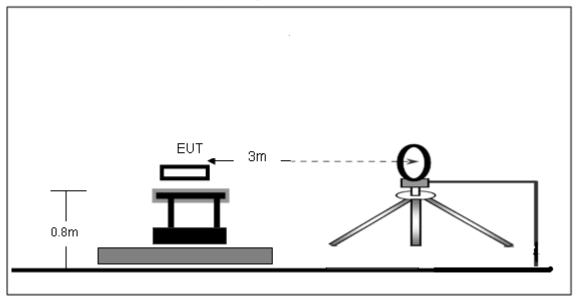
No deviation

Report No.: BCTC-FY170805329-1E

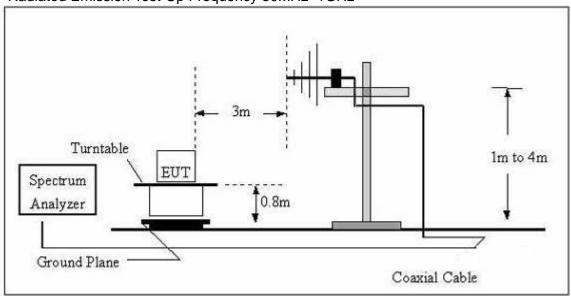


#### 3.2.4 TEST SETUP

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

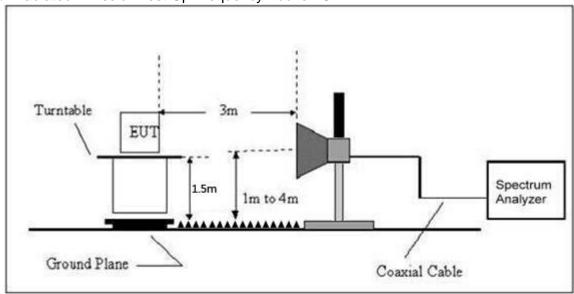


# (B) Radiated Emission Test-Up Frequency 30MHz~1GHz





# (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

Radiated Spurious Emission (Below 30MHz )

Temperature :	25 ℃	Relative Humidity:	55%
Pressure :	1010 hPa	Polarization :	
Test Voltage :	DC3.7V		
Test Mode :	Mode 4		

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

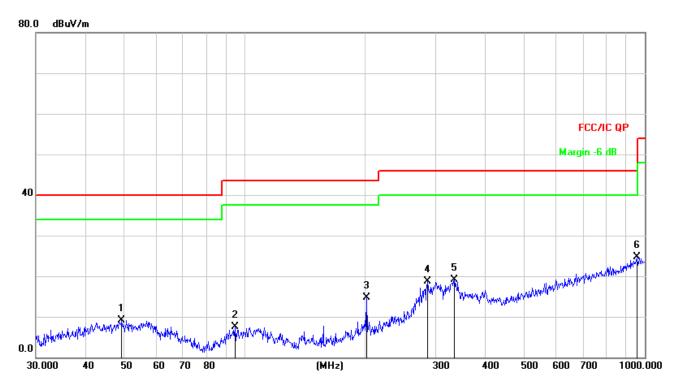
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



# Radiated Spurious Emission (Between 30MHz - 1GHz)

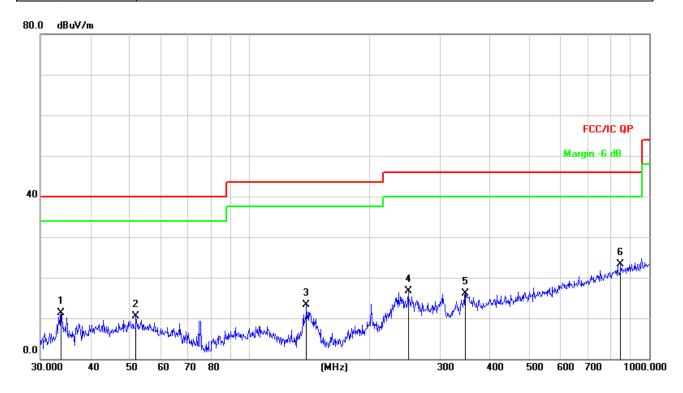
Temperature :	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC3.7V		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector
1		49.1865	23.82	-14.67	9.15	40.00	-30.85	QP
2		94.4284	24.74	-17.30	7.44	43.50	-36.06	QP
3	2	201.3930	30.32	-15.67	14.65	43.50	-28.85	QP
4	2	285.9778	31.17	-12.46	18.71	46.00	-27.29	QP
5	,	333.6867	30.16	-11.06	19.10	46.00	-26.90	QP
6	* (	955.4381	23.36	1.35	24.71	46.00	-21.29	QP



Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	DC3.7V		
Test Mode : (Worst)	Mode 4		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector
1		33.7986	29.13	-17.75	11.38	40.00	-28.62	QP
2		52.0251	25.21	-14.75	10.46	40.00	-29.54	QP
3		138.8735	33.20	-19.87	13.33	43.50	-30.17	QP
4		249.4250	30.48	-13.79	16.69	46.00	-29.31	QP
5		346.8092	26.61	-10.45	16.16	46.00	-29.84	QP
6	*	848.0563	23.67	-0.33	23.34	46.00	-22.66	QP



# Radiated Spurious Emission (1GHz to 10<sup>th</sup> harmonics)

#### **GFSK**

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type		
(1.7.1)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	.,,,,,		
Low Channel 2402MHz											
V	2402.00	106.81	38.11	7.44	20.36	96.50	114	-17.50	PK		
V	2402.00	90.62	38.11	7.44	20.36	80.31	94	-13.69	AV		
V	4804.00	55.91	38.65	7.80	23.61	48.67	74	-25.33	PK		
V	4804.00	43.04	38.65	7.80	23.61	35.80	54	-18.20	AV		
V	16132.00	44.83	38.75	10.36	26.57	43.01	74	-30.99	PK		
Н	2402.00	109.64	38.11	7.44	20.36	99.33	114	-14.67	PK		
Н	2402.00	88.92	38.11	7.44	20.36	78.61	94	-15.39	AV		
Н	4804.00	56.75	38.65	7.80	23.61	49.51	74	-24.49	PK		
Н	4804.00	43.53	38.65	7.80	23.61	36.29	54	-17.71	AV		
Н	16132.00	46.21	38.75	10.36	26.57	44.39	74	-29.61	PK		
			M	liddle Cha	annel 2441	MHz					
V	2441.00	105.74	38.11	7.44	20.36	95.43	114	-18.57	PK		
V	2441.00	90.23	38.11	7.44	20.36	79.92	94	-14.08	AV		
V	4882.00	54.50	38.65	7.80	23.61	47.26	74	-26.74	PK		
V	4882.00	43.22	38.65	7.80	23.61	35.98	54	-18.02	AV		
V	16132.00	44.07	38.75	10.36	26.57	42.25	74	-31.75	PK		
Н	2441.00	108.56	38.11	7.44	20.36	98.25	114	-15.75	PK		
Н	2441.00	86.95	38.11	7.44	20.36	76.64	94	-17.36	AV		
Н	4882.00	56.08	38.65	7.80	23.61	48.84	74	-25.16	PK		
Н	4882.00	42.33	38.65	7.80	23.61	35.09	54	-18.91	AV		
Н	16132.00	45.28	38.75	10.36	26.57	43.46	74	-30.54	PK		
				High Cha	nnel 2480I	ИНz					
V	2480.00	106.73	38.17	7.47	20.51	96.54	114	-17.46	PK		
V	2480.00	89.89	38.17	7.47	20.51	79.70	94	-14.30	AV		
V	4960.00	57.71	38.69	7.83	23.83	50.68	74	-23.32	PK		
V	4960.00	45.05	38.69	7.83	23.83	38.02	54	-15.98	AV		
V	16132.00	48.24	38.75	10.36	26.57	46.42	74	-27.58	PK		
Н	2480.00	109.38	38.17	7.47	20.51	99.19	114	-14.81	PK		
Н	2480.00	87.31	38.17	7.47	20.51	77.12	94	-16.88	AV		
Н	4960.00	58.07	38.69	7.83	23.83	51.04	74	-22.96	PK		
Н	4960.00	43.81	38.69	7.83	23.83	36.78	54	-17.22	AV		
Н	16132.00	48.14	38.75	10.36	26.57	46.32	74	-27.68	PK		

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#### Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



## PI/4 DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type			
Low Channel 2402MHz												
V	2402.00	107.97	38.06	7.42	20.15	97.48	114	-16.52	PK			
V	2402.00	87.33	38.06	7.42	20.15	76.84	94	-17.16	AV			
V	4804.00	50.90	38.53	7.78	23.25	43.40	74	-30.60	PK			
V	4804.00	40.99	38.53	7.78	23.25	33.49	54	-20.51	AV			
V	16132.00	46.92	38.75	10.36	26.57	45.10	74	-28.90	PK			
Н	2402.00	108.68	38.06	7.42	20.15	98.19	114	-15.81	PK			
Н	2402.00	85.46	38.06	7.42	20.15	74.97	94	-19.03	AV			
Н	4804.00	53.51	38.53	7.78	23.25	46.01	74	-27.99	PK			
Н	4804.00	42.41	38.53	7.78	23.25	34.91	54	-19.09	AV			
Н	16132.00	46.39	38.75	10.36	26.57	44.57	74	-29.43	PK			
			M	liddle Cha	annel 2441	MHz						
V	2441.00	106.68	38.11	7.44	20.36	96.37	114	-17.63	PK			
V	2441.00	92.31	38.11	7.44	20.36	82.00	94	-12.00	AV			
V	4882.00	54.14	38.65	7.80	23.61	46.90	74	-27.10	PK			
V	4882.00	41.90	38.65	7.80	23.61	34.66	54	-19.34	AV			
V	16132.00	43.96	38.75	10.36	26.57	42.14	74	-31.86	PK			
Н	2441.00	108.19	38.11	7.44	20.36	97.88	114	-16.12	PK			
Н	2441.00	86.51	38.11	7.44	20.36	76.20	94	-17.80	AV			
Н	4882.00	55.25	38.65	7.80	23.61	48.01	74	-25.99	PK			
Н	4882.00	43.59	38.65	7.80	23.61	36.35	54	-17.65	AV			
Н	16132.00	46.18	38.75	10.36	26.57	44.36	74	-29.64	PK			
				High Cha	nnel 2480I	ИHz						
V	2480.00	106.90	38.17	7.47	20.51	96.71	114	-17.29	PK			
V	2480.00	84.85	38.17	7.47	20.51	74.66	94	-19.34	AV			
V	4960.00	53.04	38.69	7.83	23.83	46.01	74	-27.99	PK			
V	4960.00	42.67	38.69	7.83	23.83	35.64	54	-18.36	AV			
V	16132.00	47.57	38.75	10.36	26.57	45.75	74	-28.25	PK			
Н	2480.00	105.38	38.17	7.47	20.51	95.19	114	-18.81	PK			
Н	2480.00	86.62	38.17	7.47	20.51	76.43	94	-17.57	AV			
Н	4960.00	53.73	38.69	7.83	23.83	46.70	74	-27.30	PK			
Н	4960.00	40.86	38.69	7.83	23.83	33.83	54	-20.17	AV			
Н	16132.00	47.02	38.75	10.36	26.57	45.20	74	-28.80	PK			

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#### Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



#### 8DPSK

Polar	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector			
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Туре			
Low Channel 2402MHz												
V	2402.00	106.05	38.06	7.42	20.15	95.56	114	-18.44	PK			
V	2402.00	89.72	38.06	7.42	20.15	79.23	94	-14.77	AV			
V	4804.00	56.30	38.53	7.78	23.25	48.80	74	-25.20	PK			
V	4804.00	42.61	38.53	7.78	23.25	35.11	54	-18.89	AV			
V	16132.00	45.89	38.75	10.36	26.57	44.07	74	-29.93	PK			
Н	2402.00	107.07	38.06	7.42	20.15	96.58	114	-17.42	PK			
Н	2402.00	91.23	38.06	7.42	20.15	80.74	94	-13.26	AV			
Н	4804.00	54.51	38.53	7.78	23.25	47.01	74	-26.99	PK			
Н	4804.00	41.20	38.53	7.78	23.25	33.70	54	-20.30	AV			
Н	16132.00	44.95	38.75	10.36	26.57	43.13	74	-30.87	PK			
			IV	liddle Cha	nnel 2441	MHz						
V	2441.00	106.64	38.11	7.44	20.36	96.33	114	-17.67	PK			
V	2441.00	89.50	38.11	7.44	20.36	79.19	94	-14.81	AV			
V	4882.00	54.01	38.65	7.80	23.61	46.77	74	-27.23	PK			
V	4882.00	40.48	38.65	7.80	23.61	33.24	54	-20.76	AV			
V	16132.00	44.62	38.75	10.36	26.57	42.80	74	-31.20	PK			
Н	2441.00	106.93	38.11	7.44	20.36	96.62	114	-17.38	PK			
Н	2441.00	88.37	38.11	7.44	20.36	78.06	94	-15.94	AV			
Н	4882.00	55.01	38.65	7.80	23.61	47.77	74	-26.23	PK			
Н	4882.00	42.17	38.65	7.80	23.61	34.93	54	-19.07	AV			
Н	16132.00	44.79	38.75	10.36	26.57	42.97	74	-31.03	PK			
				High Chai	nnel 2480l	ИНz						
V	2480.00	106.69	38.17	7.47	20.51	96.50	114	-17.50	PK			
V	2480.00	87.90	38.17	7.47	20.51	77.71	94	-16.29	AV			
V	4960.00	57.35	38.69	7.83	23.83	50.32	74	-23.68	PK			
V	4960.00	43.54	38.69	7.83	23.83	36.51	54	-17.49	AV			
V	16132.00	45.81	38.75	10.36	26.57	43.99	74	-30.01	PK			
Н	2480.00	107.02	38.17	7.47	20.51	96.83	114	-17.17	PK			
Н	2480.00	85.41	38.17	7.47	20.51	75.22	94	-18.78	AV			
Н	4960.00	55.31	38.69	7.83	23.83	48.28	74	-25.72	PK			
Н	4960.00	44.04	38.69	7.83	23.83	37.01	54	-16.99	AV			
Н	16132.00	47.53	38.75	10.36	26.57	45.71	74	-28.29	PK			

#### Remark:

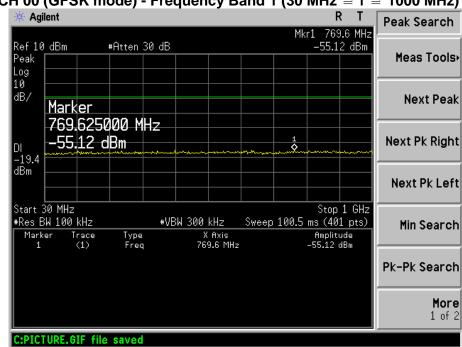
- Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



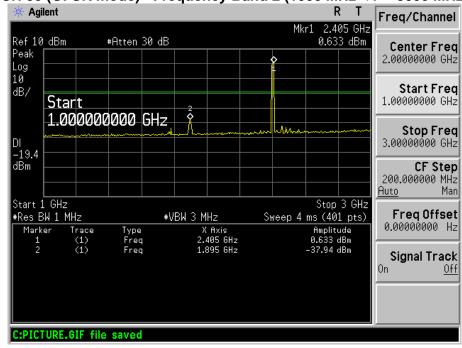
#### 3.3 CONDUCTED EMISSION MEASUREMENT

Operation Mode: GFSK mode(CH00, CH39, CH78)

## CH 00 (GFSK mode) - Frequency Band 1 (30 MHz ≤ f ≤ 1000 MHz)



#### CH 00 (GFSK mode) - Frequency Band 2 (1000 MHz < f ≤ 3000 MHz)

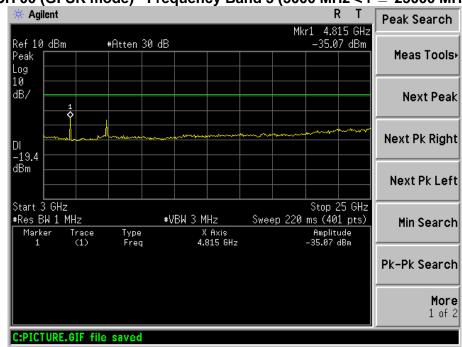


**RF** Report

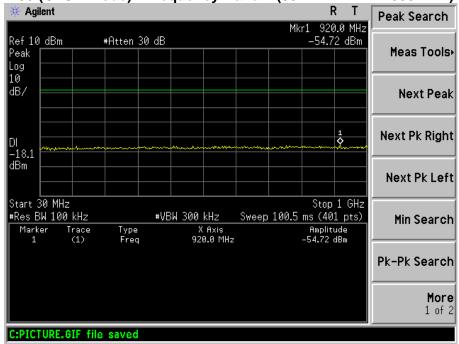
Tel: 400-788-9558 0755-33019988

Web:Http//www.bctc-lab.com.cn

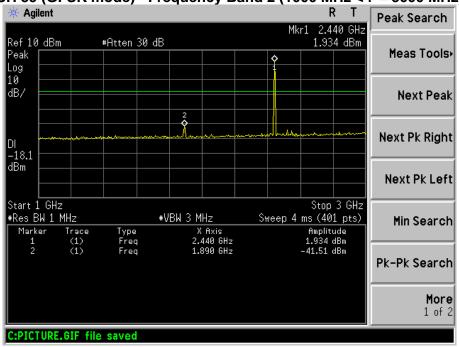
### CH 00 (GFSK mode) - Frequency Band 3 (3000 MHz < $f \le 25000$ MHz)



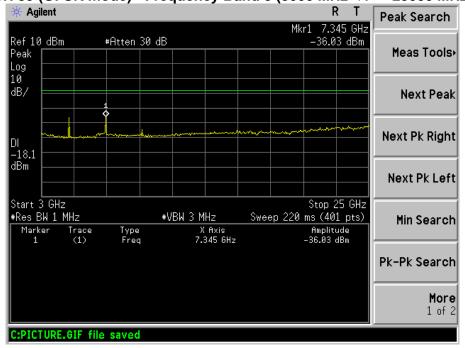
# CH 39 (GFSK mode) - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 1000 MHz)

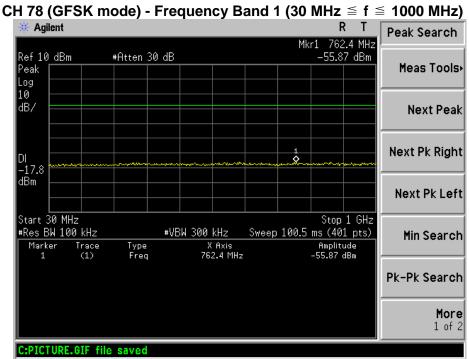




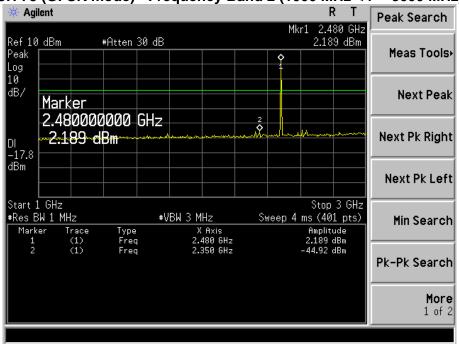


#### CH 39 (GFSK mode) - Frequency Band 3 (3000 MHz < f ≤ 25000 MHz)



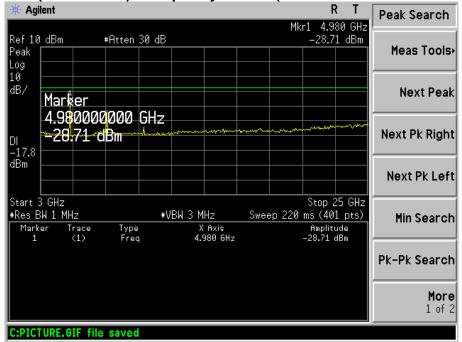






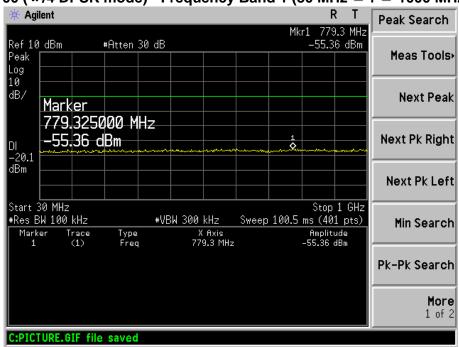


# CH 78 (GFSK mode) - Frequency Band 3 (3000 MHz < $f \le 25000$ MHz)

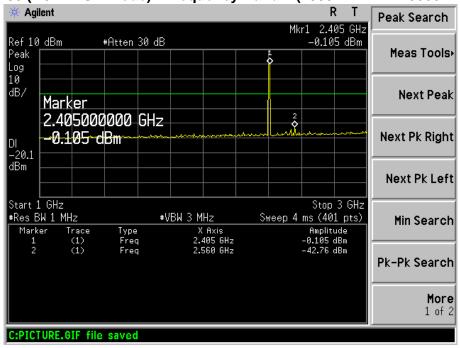


Operation Mode: π /4 DPSK mode(CH00, CH39, CH78)

#### CH 00 ( $\pi$ /4 DPSK mode) - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 1000 MHz)



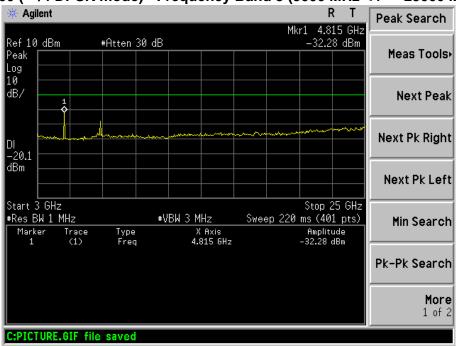
#### CH 00 ( $\pi$ /4 DPSK mode) - Frequency Band 2 (1000 MHz < f $\leq$ 3000 MHz)



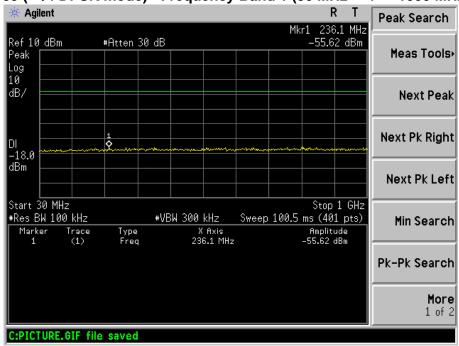
**RF** Report

Tel: 400-788-9558 0755-33019988

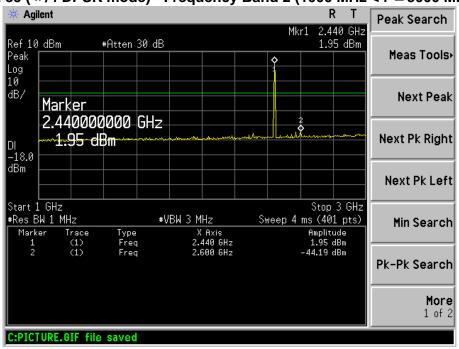
# CH 00 ( $\pi$ /4 DPSK mode) - Frequency Band 3 (3000 MHz < f $\leq$ 25000 MHz)



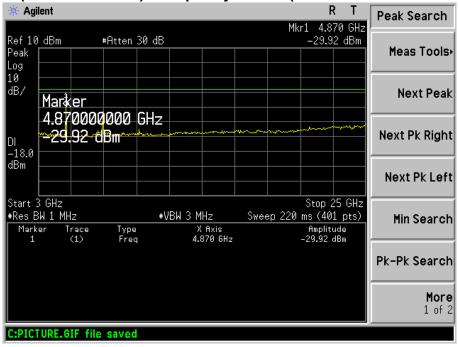
# CH 39 ( $\pi$ /4 DPSK mode) - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 1000 MHz)



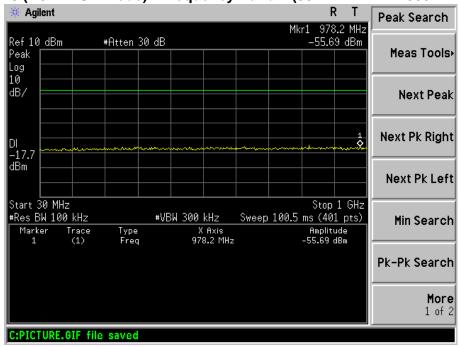
# CH 39 ( $\pi$ /4 DPSK mode) - Frequency Band 2 (1000 MHz < f $\leq$ 3000 MHz)



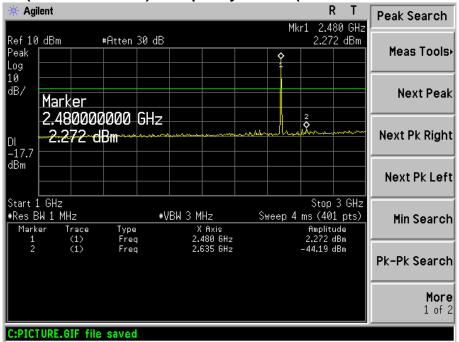
#### CH 39 ( $\pi$ /4 DPSK mode) - Frequency Band 3 (3000 MHz < f $\leq$ 25000 MHz)



## CH 78 ( $\pi$ /4 DPSK mode) - Frequency Band 1 (30 MHz $\leq$ f $\leq$ 1000 MHz)

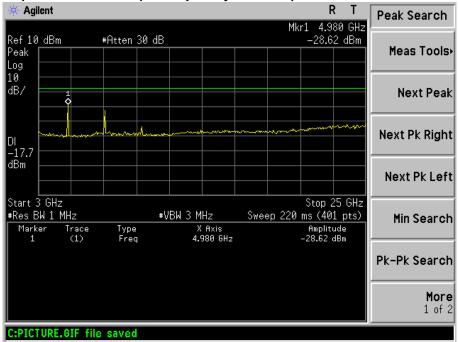


#### CH 78 ( $\pi$ /4 DPSK mode) - Frequency Band 2 (1000 MHz < f $\leq$ 3000 MHz)



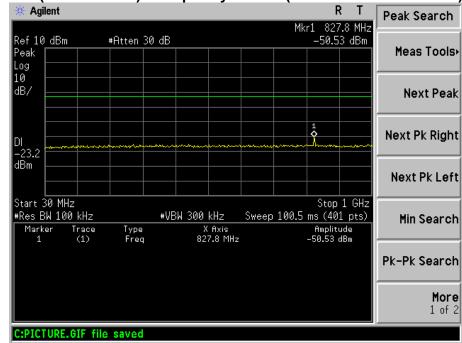


# CH 78 ( $\pi$ /4 DPSK mode) - Frequency Band 3 (3000 MHz < f $\leq$ 25000 MHz)

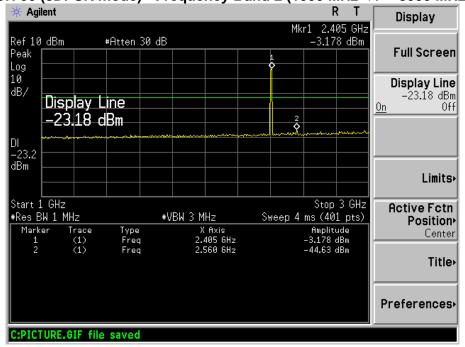


Operation Mode: 8DPSK mode(CH00, CH39, CH78)

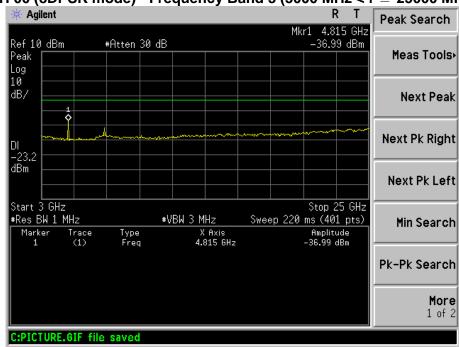




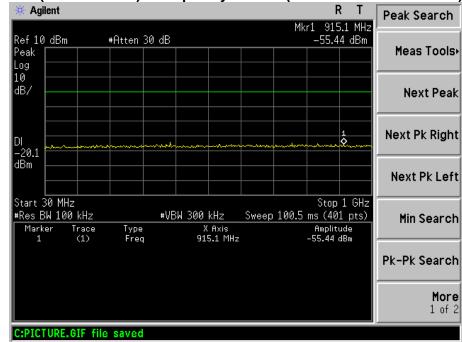
#### CH 00 (8DPSK mode) - Frequency Band 2 (1000 MHz < f ≤ 3000 MHz)



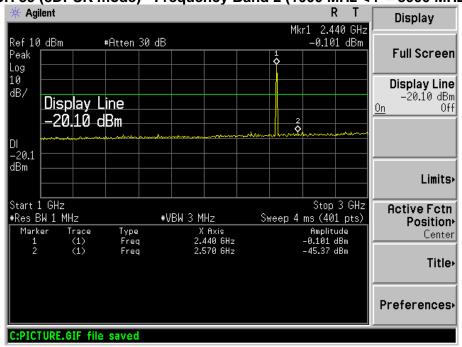
#### CH 00 (8DPSK mode) - Frequency Band 3 (3000 MHz < $f \le 25000$ MHz)



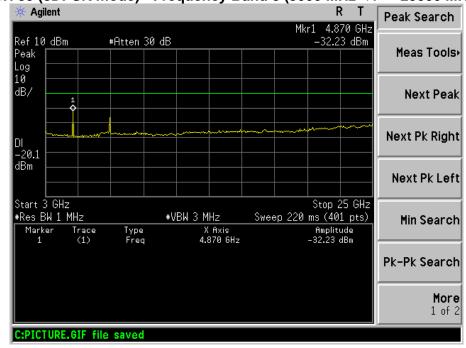
#### CH 39 (8DPSK mode) - Frequency Band 1 (30 MHz ≤ f ≤ 1000 MHz)





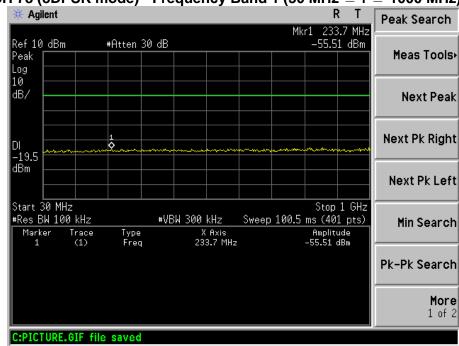


#### CH 39 (8DPSK mode) - Frequency Band 3 (3000 MHz < f ≤ 25000 MHz)

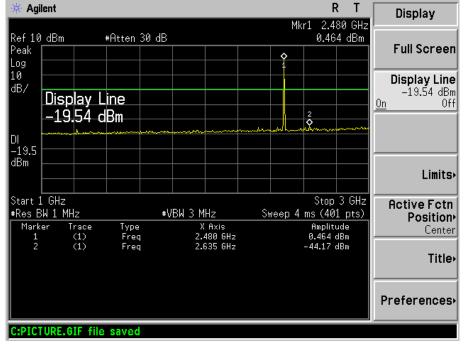


CH 78 (8DPSK mode) - Frequency Band 1 (30 MHz  $\leq$  f  $\leq$  1000 MHz)

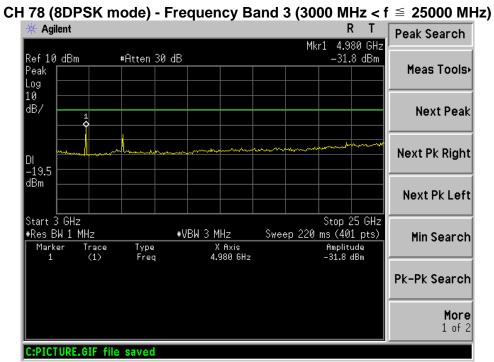
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#### 4. BANDWIDTH TEST

#### 4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C						
Section Test Item		Limit	Frequency Range (MHz)	Result		
15.249	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS		

Spectrum Parameter	Setting			
Attenuation	Auto			
Span Frequency	> Measurement Bandwidth or Channel Separation			
RB	30KHz			
VB	≥RBW			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

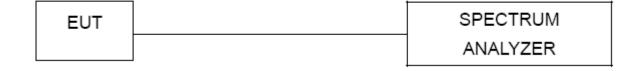
#### 4.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 30KHz, VBW≥ RBW, Sweep time = Auto.

#### 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 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



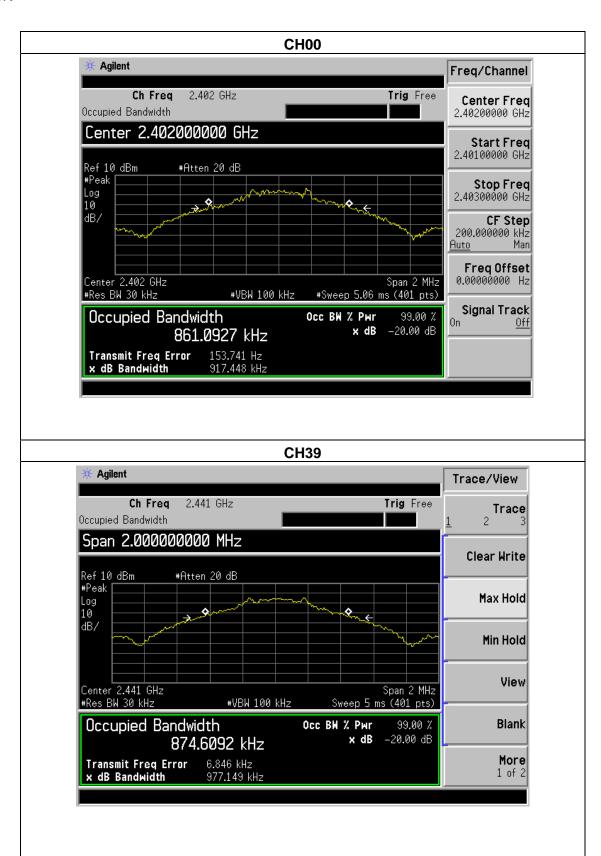
#### 4.1.5 TEST RESULTS

EUT:	Wireless Headset	Model Name :	BE8
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00 / CH39 /C78		

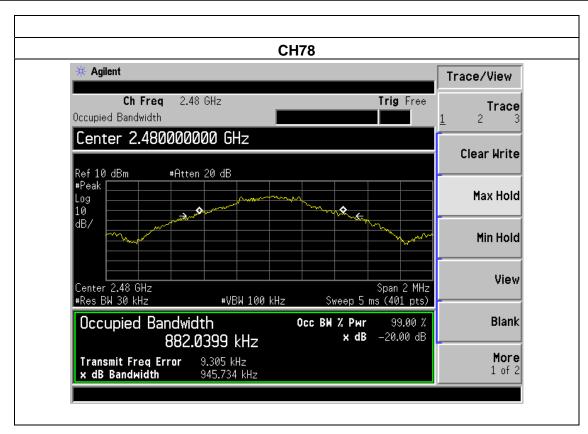
	Frequency	20dB Bandwidth (kHz)	Result
	2402 MHz	917.448	PASS
GFSK	2441 MHz	977.149	PASS
	2480 MHz	945.734	PASS
	2402 MHz	1334	PASS
PI/4 DPSK	2441 MHz	1335	PASS
	2480 MHz	1339	PASS
	2402 MHz	1349	PASS
8DPSK	2441 MHz	1351	PASS
	2480 MHz	1354	PASS



**GFSK** 

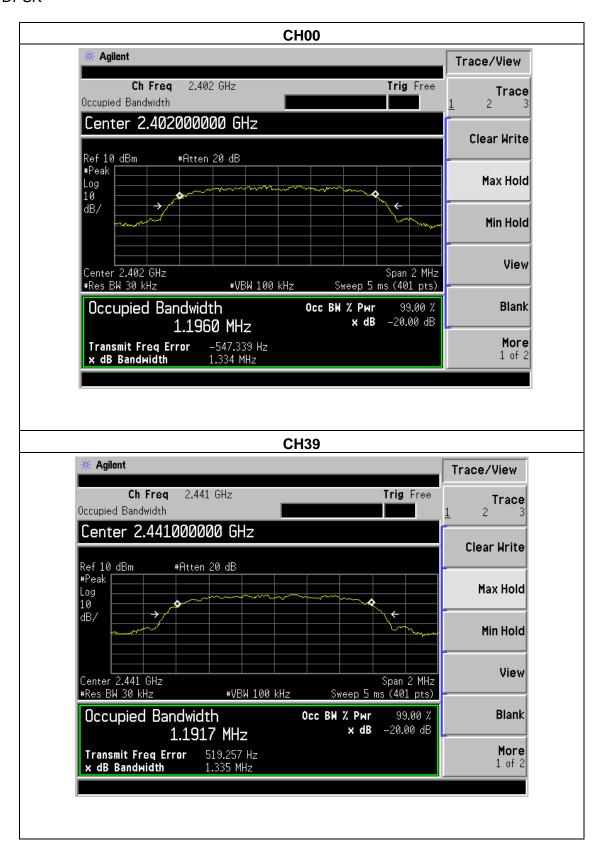


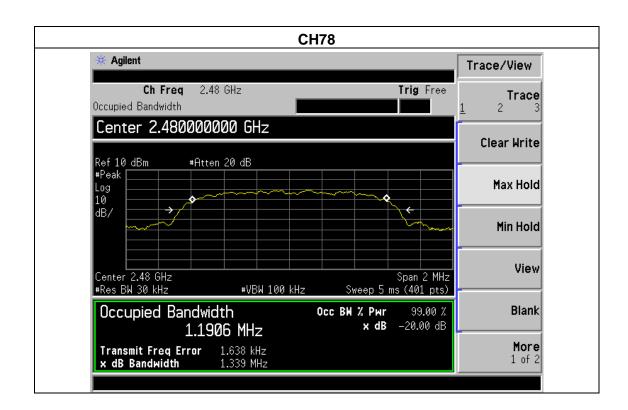






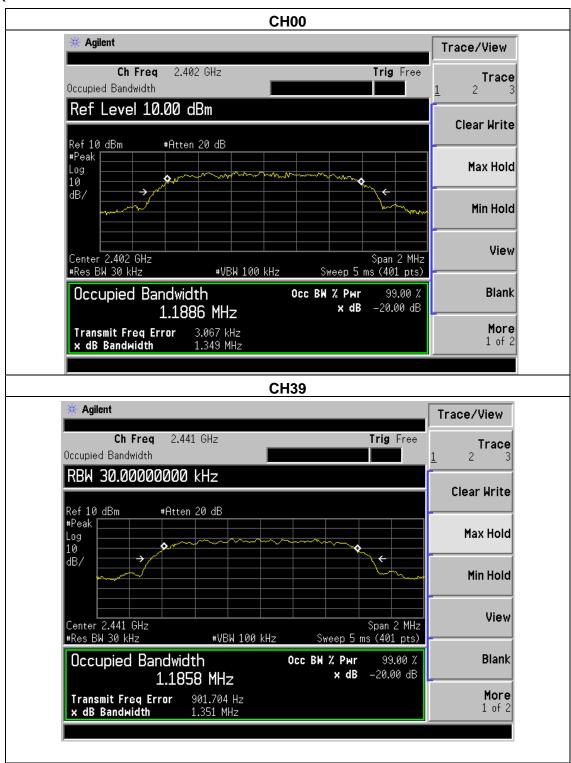
#### PI/4 DPSK

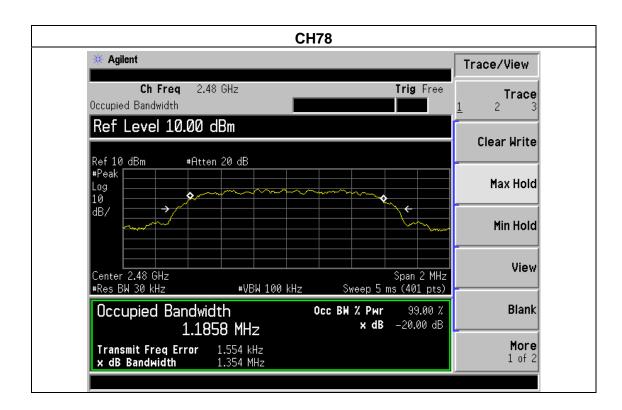






#### 8DPSK







## 5. 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) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)(c)

#### **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.

#### Note:

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



#### **5.1 DEVIATION FROM STANDARD**

No deviation.

#### **5.2 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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#### **5.3 TEST RESULTS**

Temperature :	<b>25</b> ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	DC3.7V
Test Mode :	CH00/ CH78		

	Polar (H/V)	Frequency (MHz)	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission evel (dBuV/m)	Limits (dBuV/m)		Result
			(dBuV)	(dB)	(dB)	(dB/m)	PK	PK	AV	
	Low Channel 2402MHz									
	Н	2390.00	57.95	38.06	7.42	20.15	47.46	74.00	54.00	PASS
	Н	2400.00	57.27	38.06	7.42	20.15	46.78	74.00	54.00	PASS
	V	2390.00	57.08	38.06	7.42	20.15	46.59	74.00	54.00	PASS
GFSK	V	2400.00	56.74	38.06	7.42	20.15	46.25	74.00	54.00	PASS
OI OIX						nel 2480M				
	Н	2483.50	57.90	38.17	7.42	20.51	47.66	74.00	54.00	PASS
	Н	2483.50	58.83	38.17	7.42	20.51	48.59	74.00	54.00	PASS
	V	2485.50	58.07	38.2	7.45	20.54	47.86	74.00	54.00	PASS
	V	2485.50	58.75	38.2	7.45	20.54	48.54	74.00	54.00	PASS
						el 2402M				
	Н	2390.00	57.75	38.06	7.42	20.15	47.26	74.00	54.00	PASS
	Н	2400.00	57.37	38.06	7.42	20.15	46.88	74.00	54.00	PASS
	V	2390.00	57.29	38.06	7.42	20.15	46.8	74.00	54.00	PASS
PI/4	V	2400.00	58.16	38.06	7.42	20.15	47.67	74.00	54.00	PASS
DPSK	High Channel 2480MHz									
	Н	2483.50	57.94	38.17	7.42	20.51	47.7	74.00	54.00	PASS
	Н	2483.50	57.27	38.17	7.42	20.51	47.03	74.00	54.00	PASS
	V	2485.50	58.09	38.2	7.45	20.54	47.88	74.00	54.00	PASS
	V	2485.50	59.07	38.2	7.45	20.54	48.86	74.00	54.00	PASS
		Low Channel 2402MHz								
	Н	2390.00	58.02	38.06	7.42	20.15	47.53	74.00	54.00	PASS
oppok	Н	2400.00	58.87	38.06	7.42	20.15	48.38	74.00	54.00	PASS
	V	2390.00	58.35	38.06	7.42	20.15	47.86	74.00	54.00	PASS
	V	2400.00	57.31	38.06	7.42	20.15	46.82	74.00	54.00	PASS
8DPSK	High Channel 2480MHz									
Damari	Н	2483.50	58.00	38.17	7.42	20.51	47.76	74.00	54.00	PASS
	Н	2483.50	58.37	38.17	7.42	20.51	48.13	74.00	54.00	PASS
	V	2485.50	59.02	38.2	7.45	20.54	48.81	74.00	54.00	PASS
	V	2485.50	58.36	38.2	7.45	20.54	48.15	74.00	54.00	PASS
		2485.50	58.36	38.2	7.45	20.54	48.15	74.00	54.00	F

#### Remark:

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

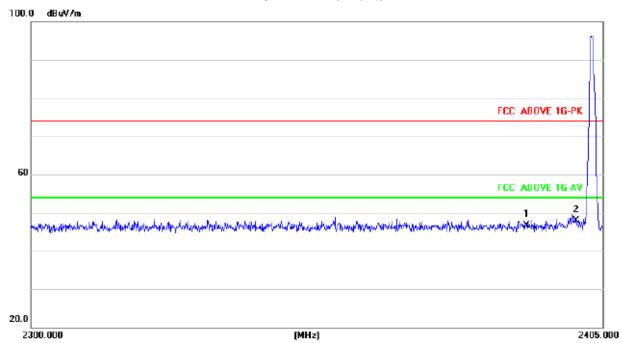
<sup>1.</sup> Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier, Margin= Emission Level - Limit

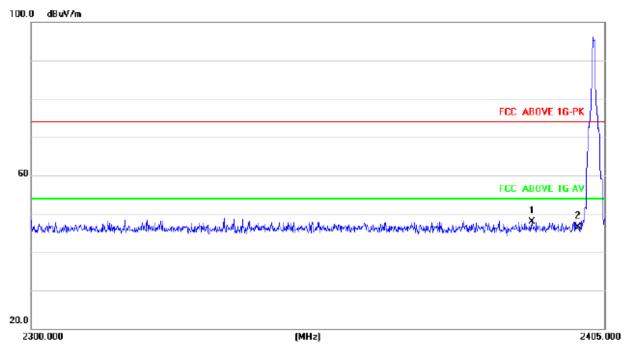
<sup>2.</sup> If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.





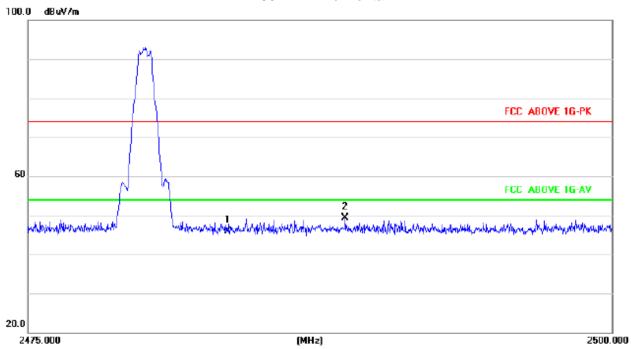
#### 2402MHz Horizontal

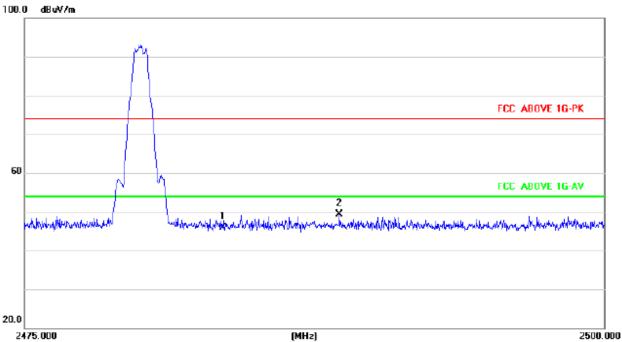






#### 2480MHz Horizontal

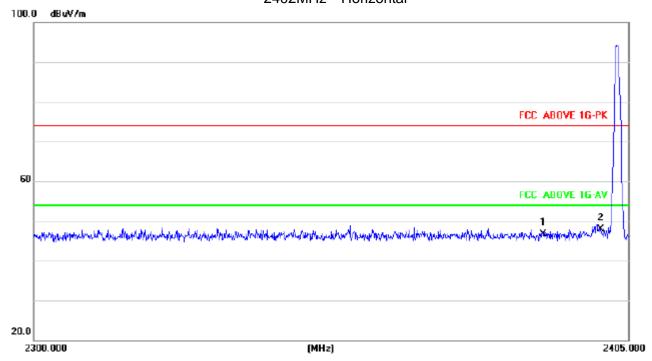




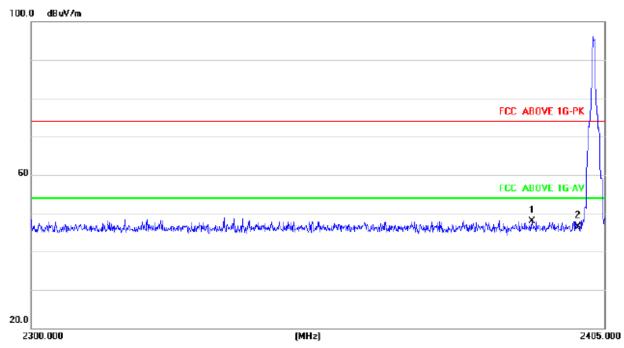


#### PI/4 DPSK

#### 2402MHz Horizontal



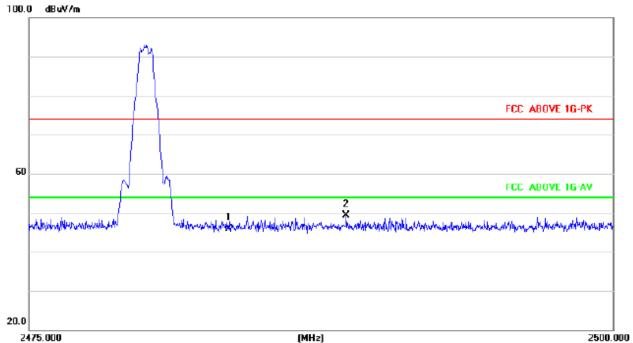
#### 2402MHz Vertical

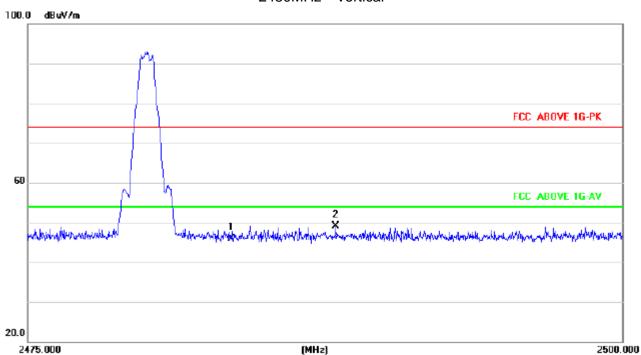


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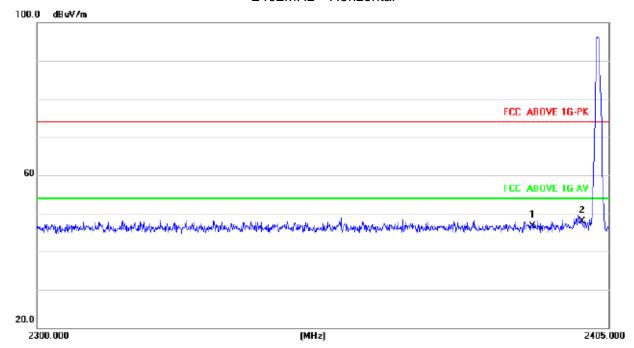
# 2480MHz Horizonta

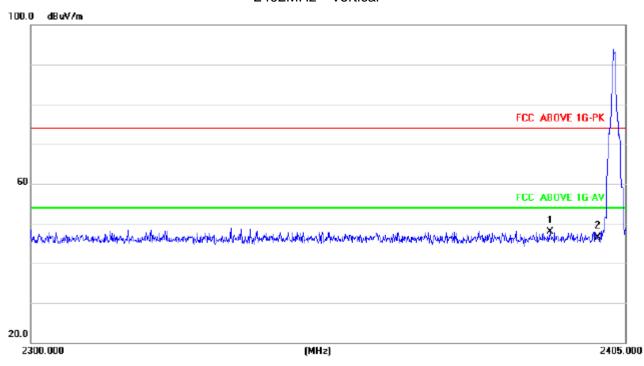




#### 8DPSK

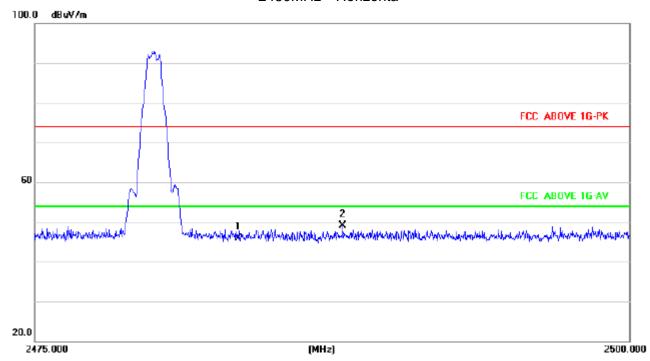
#### 2402MHz Horizontal

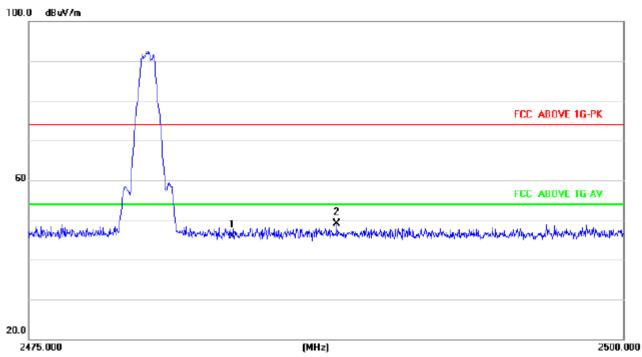






#### 2480MHz Horizonta







#### **6. ANTENNA REQUIREMENT**

#### **6.1 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.

#### **6.2 EUT ANTENNA**

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

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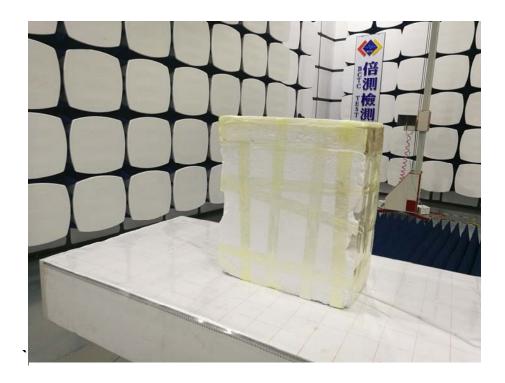
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## 7. EUT TEST PHOTO







#### **Conducted Measurement Photos**





#### 8. EUT PHOTO



\*\*\*\* END OF REPORT \*\*\*\*