

RADIO TEST REPORT FCC ID: 2ABNJ-BV500

Product: bluetooth speaker

Trade Name: N/A

Model No.: BV500

Serial Model: N/A

Report No.: NTEK-2016NT05316135F1

Issue Date: 13 Jun 2016

Prepared for

Shenzhen See Me Here Electronic Co., Ltd.
3-4th Floor, Building D,4th Floor, Building A1,Xixiang
Tongfuyu Industrial Park, Bao'an District, Shenzhen, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen See Me Here Electronic Co., Ltd.
Address:	3-4th Floor, Building D,4th Floor, Building A1,Xixiang
	Tongfuyu Industrial Park, Bao'an District, Shenzhen, China
Manufacture's Name:	Shenzhen See Me Here Electronic Co., Ltd.
Address:	3-4th Floor, Building D,4th Floor, Building A1,Xixiang
	Tongfuyu Industrial Park, Bao'an District, Shenzhen, China
Product description	
Product name:	bluetooth speaker
Model and/or type reference:	BV500
Serial Model:	N/A

Measurement Procedure Used:

Mededicinent i recedure coca.		
APPLICABLE STANDARDS		
STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J:2015 FCC 47 CFR Part 15, Subpart C:2015 KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013 DA 00-705	Complied	

This device described above has been tested by NTEK Testing Technology Co., Ltd., 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.

This report shall not be reproduced except in full, without the written approval of NTEK Testing Technology Co., Ltd., this document may be altered or revised by NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	31 May. 2016 ~ 13 Jun. 2016
Testing Engineer	:	Shu lin
		(Allen Liu)
Technical Manager	:	Jason chen
		(Jason Chen)
Authorized Signatory	: <u> </u>	San. Chen
		(Sam Chen)



2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C					
Standard Section Test Item Verdict Remark					
15.207	Conducted Emission	PASS			
15.247(c)	Radiated Spurious Emission	PASS			
15.247(a)(1)	Hopping Channel Separation	PASS			
15.247(b)(1)	Peak Output Power	PASS			
15.247(a)(iii)	Number of Hopping Frequency	PASS			
15.247(a)(iii)	Dwell Time	PASS			
15.247(a)(1)	Bandwidth	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2014.09.04

The certificate is valid until 2017.09.03

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

Accredited by FCC, September 6, 2013

The Certificate Registration Number is 238937.

Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1.

Name of Firm : NTEK Testing Technology Co., Ltd

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen P.R. China.

3.3 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%	



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	bluetooth speaker		
Trade Name	N/A		
FCC ID	2ABNJ-BV500		
Model No.	BV500		
Serial Model	N/A		
Model Difference	N/A		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK,π/4-DQPSK, 8DPSK		
Number of Channels	79 Channels		
Antenna Type	PCB Antenna		
Antenna Gain	0.5 dBi		
Davier aventy			
Power supply	☐Adapter supply: N/A		
HW Version	BV500 JACK PCB_4L_V1.3		
SW Version	BV500_16.05.28_APK_BT4.0_V1.03_ZS.fw V1.03		

Note: 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.





Revision History

Report No.	Version	Description	Issued Date
NTEK-2016NT05316135F1	Rev.01	Initial issue of report	Jun 13, 2016



5 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.

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The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for $\pi/4$ -DQPSK modulation; 3Mbps for 8DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
	•••
39	2441
40	2442
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission		
Final Test Mode Description		
Mode 1	normal link mode	

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	CH00(2402MHz)	
Mode 2	CH39(2441MHz)	
Mode 3	CH78(2480MHz)	

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

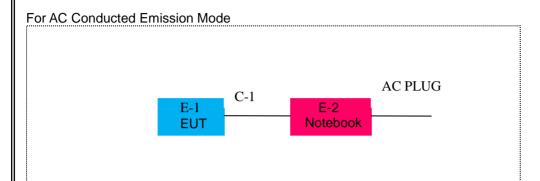
For Conducted Test Cases		
Final Test Mode	Description	
Mode 1	CH00(2402MHz)	
Mode 2	CH39(2441MHz)	
Mode 3	CH78(2480MHz)	

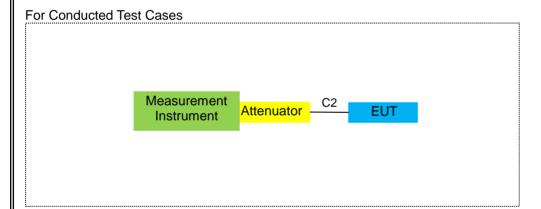
Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM







6.2 SUPPORT EQUIPMENT

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.	FCC ID	Note
E-1	bluetooth speaker	N/A	BV500	2ABNJ-BV500	EUT
E-2	Notebook	Lenove	Thinkpad Edge E430	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	NO	NO	NO	1.2m
C-2	RF Cable	NO	NO	0.5m

Notes:

- (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".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ion root oquipi	110111					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	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	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year
1	Attenuation	MCE	24-10-34	BN9258	2016.06.08	2017.06.07	1 year

Note: Each piece of equipment is scheduled for calibration once a year.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

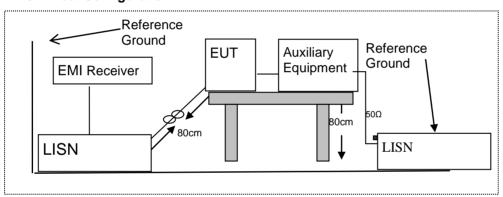
7.1.2 Conformance Limit

Fragues (MHz)	Conducted	I Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT 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.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

7.1.5 Test Results

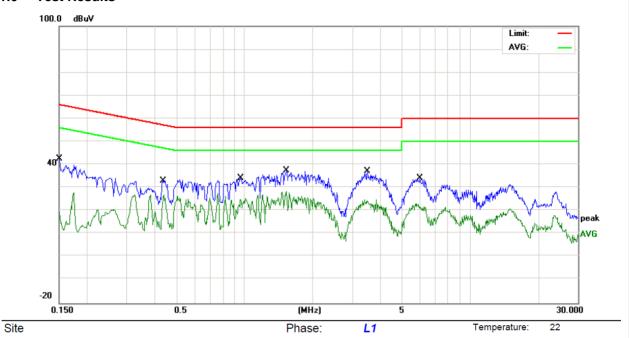
Pass

Humidity:

51 %



7.1.6 Test Results



AC 120V/60Hz

Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

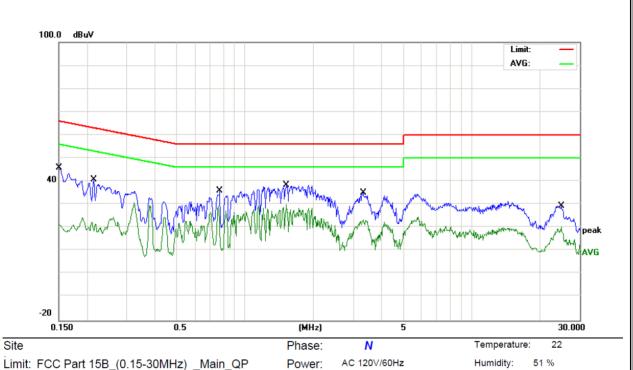
Mode: BT3.0

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu∨	dB	Detector	Comment
1	0.1499	32.60	10.08	42.68	66.00	-23.32	QP	
2	0.1499	12.39	10.08	22.47	56.00	-33.53	AVG	
3	0.4339	22.99	9.97	32.96	57.18	-24.22	QP	
4	0.4339	16.08	9.97	26.05	47.18	-21.13	AVG	
5	0.9616	24.19	9.86	34.05	56.00	-21.95	QP	
6	0.9616	13.92	9.86	23.78	46.00	-22.22	AVG	
7 *	1.5339	27.57	9.81	37.38	56.00	-18.62	QP	
8	1.5339	14.90	9.81	24.71	46.00	-21.29	AVG	
9	3.5019	27.40	9.73	37.13	56.00	-18.87	QP	
10	3.5019	16.96	9.73	26.69	46.00	-19.31	AVG	
11	5.9618	24.42	9.73	34.15	60.00	-25.85	QP	
12	5.9618	18.38	9.73	28.11	50.00	-21.89	AVG	

Power:





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

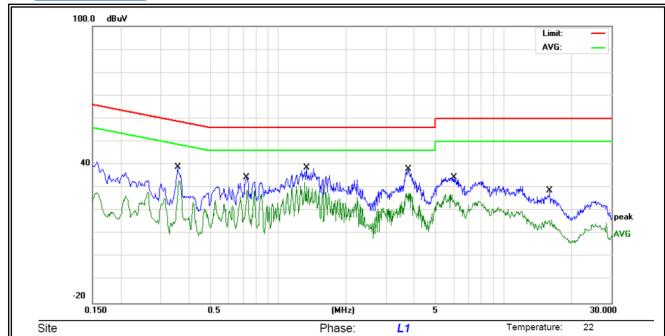
Mode: BT3.0

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1499	35.76	10.08	45.84	66.00	-20.16	QP	
2	0.1499	15.03	10.08	25.11	56.00	-30.89	AVG	
3	0.2139	30.63	10.04	40.67	63.05	-22.38	QP	
4	0.2139	13.65	10.04	23.69	53.05	-29.36	AVG	
5	0.7740	26.07	9.82	35.89	56.00	-20.11	QP	
6	0.7740	14.35	9.82	24.17	46.00	-21.83	AVG	
7 *	1.5260	28.45	9.81	38.26	56.00	-17.74	QP	
8	1.5260	15.24	9.81	25.05	46.00	-20.95	AVG	
9	3.3260	25.36	9.73	35.09	56.00	-20.91	QP	
10	3.3260	14.04	9.73	23.77	46.00	-22.23	AVG	
11	24.8733	19.39	9.97	29.36	60.00	-30.64	QP	
12	24.8733	8.91	9.97	18.88	50.00	-31.12	AVG	

Humidity: 51 %





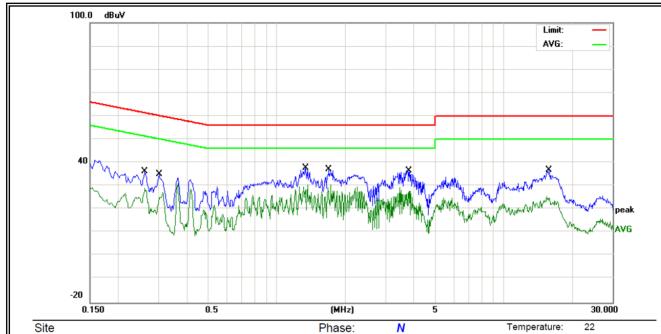
Mode: BT3.0 Note:

Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.3578	28.85	10.08	38.93	58.78	-19.85	QP	
2		0.3578	10.50	10.08	20.58	48.78	-28.20	AVG	
3		0.7217	24.58	9.81	34.39	56.00	-21.61	QP	
4		0.7217	11.64	9.81	21.45	46.00	-24.55	AVG	
5	*	1.3340	28.79	9.83	38.62	56.00	-17.38	QP	
6		1.3340	13.07	9.83	22.90	46.00	-23.10	AVG	
7		3.7740	28.38	9.72	38.10	56.00	-17.90	QP	
8		3.7740	14.06	9.72	23.78	46.00	-22.22	AVG	
9		6.0217	24.83	9.73	34.56	60.00	-25.44	QP	
10		6.0217	15.32	9.73	25.05	50.00	-24.95	AVG	
11		15.9699	18.93	9.82	28.75	60.00	-31.25	QP	
12		15.9699	8.51	9.82	18.33	50.00	-31.67	AVG	

Power: AC 240V/50Hz





Limit: FCC Part 15B_(0.15-30MHz) _Main_QP Mode: BT3.0

Power: AC 240V/50Hz

Humidity: 51 %

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.2620	26.21	10.09	36.30	61.36	-25.06	QP	
2	0.2620	12.93	10.09	23.02	51.36	-28.34	AVG	
3	0.3019	24.81	10.13	34.94	60.19	-25.25	QP	
4	0.3019	9.20	10.13	19.33	50.19	-30.86	AVG	
5 *	1.3340	27.87	9.83	37.70	56.00	-18.30	QP	
6	1.3340	11.71	9.83	21.54	46.00	-24.46	AVG	
7	1.6935	27.26	9.79	37.05	56.00	-18.95	QP	
8	1.6935	12.36	9.79	22.15	46.00	-23.85	AVG	
9	3.8180	26.81	9.72	36.53	56.00	-19.47	QP	
10	3.8180	14.30	9.72	24.02	46.00	-21.98	AVG	
11	15.7659	26.89	9.82	36.71	60.00	-23.29	QP	
12	15.7659	14.40	9.82	24.22	50.00	-25.78	AVG	
	15.7659	14.40	9.82	24.22	50.00	-25.78		



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and DA 00-705

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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) (see §15.205(c)). According to FCC Part15.205. Restricted bands

	locording to 1 00 1 at 10.200, restricted bands							
MHz	MHz	MHz	GHz					
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5					
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7					
6.26775-6.26825	123-138	2200-2300	14.47-14.5					
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4					
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12					
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0					
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5					
12.57675-12.57725	322-335.4	3600-4400	(2)					
13.36-13.41								

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.

	\ / /·	\ /	
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV	/m) (at 3M)
1 requericy(ivii iz)	PEAK	AVERAGE
Above 1000	74	54

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

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

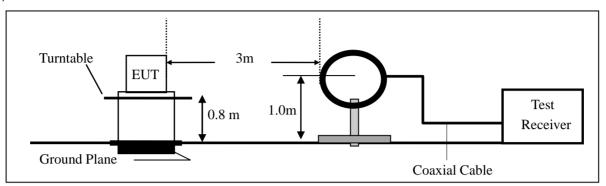
7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

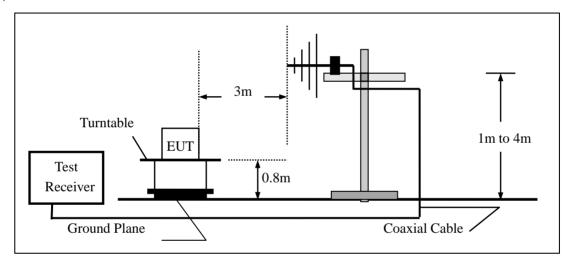


7.2.4 Test Configuration

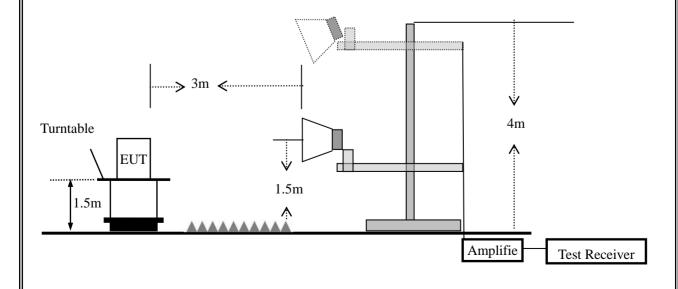
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

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

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

- 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 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. 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 for below 1GHz and 1.5m for above 1GHz; 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000 QP		120 kHz	300 kHz
Ahava 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK \ AV ´		PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

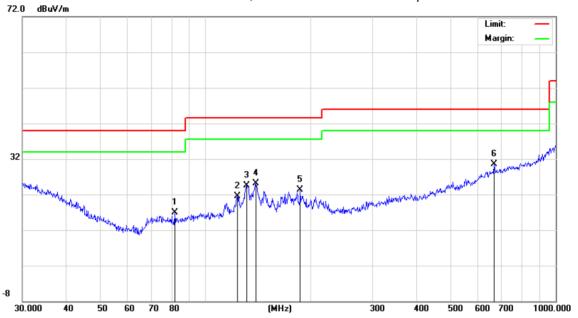
Limit line=Specific limits(dBuV) + distance extrapolation factor



Spurious Emission below 1GHz (30MHz to 1GHz)

All the modulation modes have been tested, and the worst result was report as below:

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Limit: FCC_PART15_B_03m_QP Mode: BT

Note:

Site

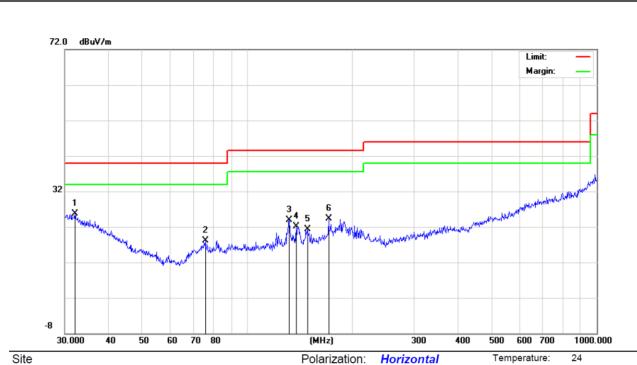
Polarization: Vertical Temperature: 24 AC 120V/60Hz Humidity: Power:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1		81.7831	6.78	10.07	16.85	40.00	-23.15	QP			
2		123.2655	9.86	11.71	21.57	43.50	-21.93	QP			
3		131.2965	12.58	12.01	24.59	43.50	-18.91	QP			
4		139.3613	13.06	12.09	25.15	43.50	-18.35	QP			
5		186.4407	10.31	12.94	23.25	43.50	-20.25	QP			
6	*	665.8034	8.49	22.00	30.49	46.00	-15.51	QP			

Humidity:

50 %





Power:

43.50 -19.29 QP

Limit: FCC_PART15_B_03m_QP Mode: BT

Freq.

MHz

32.0667

75.7112

131.7577

137.9028

148.4410

170.7926

Reading

Level

dBu∀

6.15

7.59

11.93

10.06

8.61

10.63

13.58

24.21

Note:

No. Mk.

2

3

4

5

6

Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
dB	dBu√/m	dBu∀/m	dB	Detector	cm	degree	Comment	
19.49	25.64	40.00	-14.36	QP				
10.50	18.09	40.00	-21.91	QP				
12.02	23.95	43.50	-19.55	QP				
12.08	22.14	43.50	-21.36	QP				
12.69	21.30	43.50	-22.20	QP				

AC 120V/60Hz



Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	Comment				
(MHz)	(dBµV)	(dB)	(dB) (dBμV/m) (dBμV/m)		(dB)	k	Comment				
Low Channel (2402 MHz)-Above 1G											
4804.112	59.58	-3.64	55.94	74.00	-18.06	Pk	Vertical				
4804.112	42.33	-3.64	38.69	54.00	-15.31	AV	Vertical				
7206.547	59.48	-0.95	58.53	74.00	-15.47	Pk	Vertical				
7206.547	39.66	-0.95	38.71	54.00	-15.29	AV	Vertical				
4804.129	60.45	-3.64	56.81	74.00	-17.19	Pk	Horizontal				
4804.129	42.15	-3.64	38.51	54.00	-15.49	AV	Horizontal				
7206.741	58.58	-0.95	57.63	74.00	-16.37	Pk	Horizontal				
7206.741	42.15	-0.95	41.20	54.00	-12.80	AV	Horizontal				
		Mid Chan	nel (2441 MHz)-Abo	ove 1G							
4882.054	60.45	-3.68	56.77	74.00	-17.23	Pk	Vertical				
4882.054	46.33	-3.68	42.65	54.00	-11.35	AV	Vertical				
7323.364	59.25	-0.82	58.43	74.00	-15.57	Pk	Vertical				
7323.364	43.02	-0.82	42.20	54.00	-11.80	AV	Vertical				
4882.198	62.25	-3.68	58.57	74.00	-15.43	Pk	Horizontal				
4882.198	42.15	-3.68	38.47	54.00	-15.53	AV	Horizontal				
7323.147	58.37	-0.82	57.55	74.00	-16.45	Pk	Horizontal				
7323.147	42.15	-0.82	41.33	54.00	-12.67	AV	Horizontal				
		High Chan	nel (2480 MHz)- Ab	ove 1G							
4960.598	62.59	-3.59	59.00	74.00	-15.00	Pk	Vertical				
4960.598	43.05	-3.59	39.46	54.00	-14.54	AV	Vertical				
7440.712	56.69	-0.68	56.01	74.00	-17.99	Pk	Vertical				
7440.712	41.33	-0.68	40.65	54.00	-13.35	AV	Vertical				
4960.582	60.54	-3.59	56.95	74.00	-17.05	Pk	Horizontal				
4960.582	42.15	-3.59	38.56	54.00	-15.44	AV	Horizontal				
7440.179	59.11	-0.68	58.43	74.00	-15.57	Pk	Horizontal				
7440.179	43.26	-0.68	42.58	54.00	-11.42	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.



■ Spurious Emission in Band edge

EUT: bluetooth speaker Model No.: BV500

Temperature: 20 °C Relative Humidity: 48%

Test Mode: Mode1/Mode2/Mode3 Test By: Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
	1Mbps Non-hopping							
2390	66.35	-13.06	53.29	74	-20.71	Pk	Vertical	
2390	56.02	-13.06	42.96	54	-11.04	AV	Vertical	
2390	65.35	-13.06	52.29	74	-21.71	Pk	Horizontal	
2390	56.55	-13.06	43.49	54	-10.51	AV	Horizontal	
2483.5	64.25	-12.78	51.47	74	-22.53	Pk	Vertical	
2483.5	55.45	-12.78	42.67	54	-11.33	AV	Vertical	
2483.5	65.34	-12.78	52.56	74	-21.44	Pk	Horizontal	
2483.5	55.47	-12.78	42.69	54	-11.31	AV	Horizontal	
			1Mbps	hopping				
2390	62.59	-13.06	49.53	74	-24.47	Pk	Vertical	
2390	52.45	-13.06	39.39	54	-14.61	AV	Vertical	
2390	62.44	-13.06	49.38	74	-24.62	Pk	Horizontal	
2390	55.36	-13.06	42.3	54	-11.7	AV	Horizontal	
2483.5	61.58	-12.78	48.8	74	-25.2	Pk	Vertical	
2483.5	57.15	-12.78	44.37	54	-9.63	AV	Vertical	
2483.5	60.55	-12.78	47.77	74	-26.23	Pk	Horizontal	
2483.5	56.58	-12.78	43.8	54	-10.2	AV	Horizontal	

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



■ Spurious Emission in Restricted Band 3260MMHz-18000MHz

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment					
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment					
	1Mbps Non-hopping											
3260	30.56	-13.06	17.5	74	-56.5	Pk	Vertical					
3260	57.73	-13.06	44.67	54	-9.33	AV	Vertical					
3260	58.93	-13.06	45.87	74	-28.13	Pk	Horizontal					
3260	52.26	-13.06	39.2	54	-14.8	AV	Horizontal					
3332	63.37	-12.78	50.59	74	-23.41	Pk	Vertical					
3332	49.62	-12.78	36.84	54	-17.16	AV	Vertical					
3332	60.52	-12.78	47.74	74	-26.26	Pk	Horizontal					
3332	50.4	-12.78	37.62	54	-16.38	AV	Horizontal					
17789	63.82	-12.24	51.58	74	-22.42	Pk	Vertical					
17789	53.5	-12.24	41.26	54	-12.74	AV	Vertical					
17957	64.31	-12.24	52.07	74	-21.93	Pk	Horizontal					
17957	54.26	-12.24	42.02	54	-11.98	AV	Horizontal					
			1Mbps ho	pping								
3260	60.81	-13.06	47.75	74	-26.25	Pk	Vertical					
3260	50.39	-13.06	37.33	54	-16.67	AV	Vertical					
3260	59.37	-13.06	46.31	74	-27.69	Pk	Horizontal					
3260	50.06	-13.06	37	54	-17	AV	Horizontal					
3332	61.16	-12.78	48.38	74	-25.62	Pk	Vertical					
3332	48.29	-12.78	35.51	54	-18.49	AV	Vertical					
3332	62.48	-12.78	49.7	74	-24.3	Pk	Horizontal					
3332	50.45	-12.78	37.67	54	-16.33	AV	Horizontal					
17781	63.19	-12.24	50.95	74	-23.05	Pk	Vertical					
17781	53.42	-12.24	41.18	54	-12.82	AV	Vertical					
17955	64.23	-12.24	51.99	74	-22.01	Pk	Horizontal					
17955	54.22	-12.24	41.98	54	-12.02	AV	Horizontal					
NI. (. /4\ AI			00 10 1 - 1 - 1 -	11 14								

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



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and DA 00-705

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW ≥ 1% of the span

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

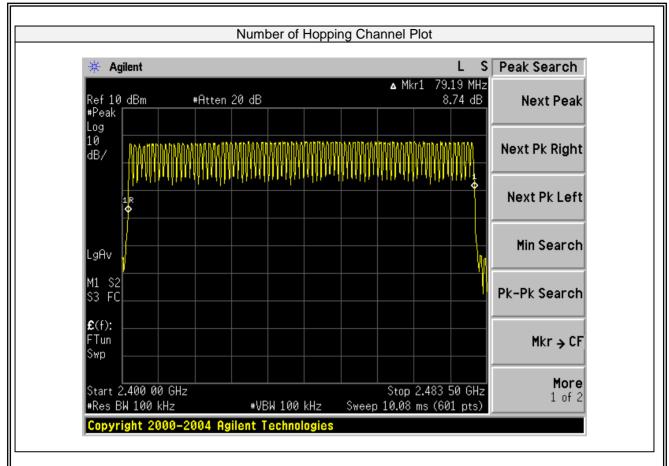
Trace = max hold

7.3.6 Test Results

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

Number of Hopping (Channel)	Adaptive Frequency hopping (Channel)	limit	Verdict	
79	20	≥15	Pass	







7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

7.4.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

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7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

 $RBW \ge 30KHz$

VBW ≥ 3*RBW

Sweep = auto

Detector function = peak

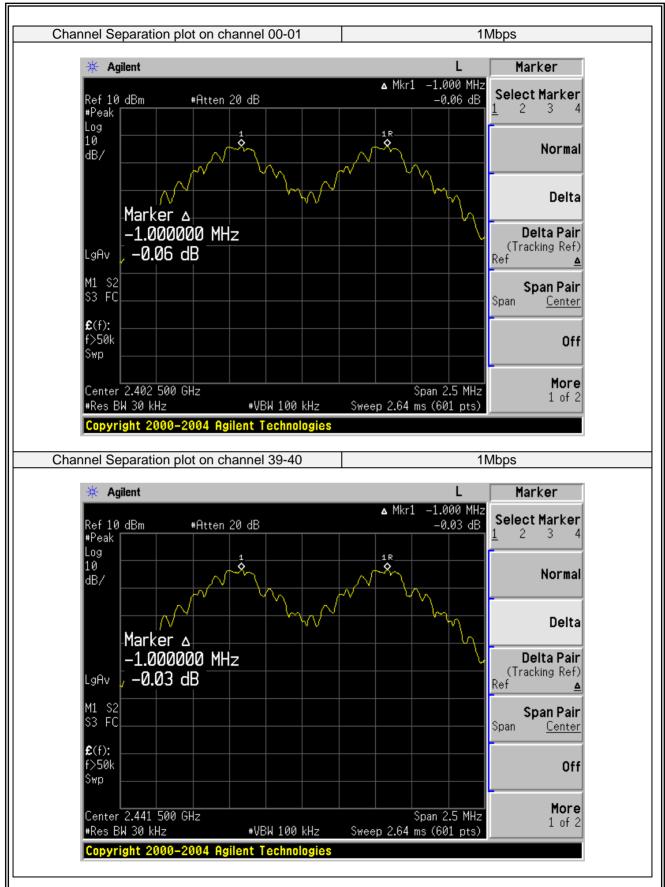
Trace = max hold

7.4.6 Test Results

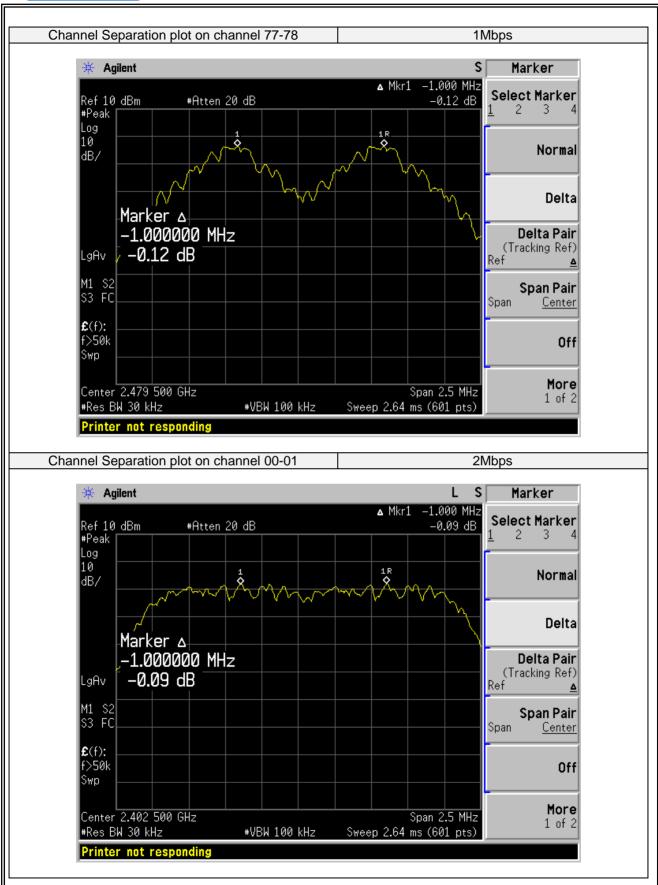
EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

Modulation	Channel	Channel	Measurement	Limit		
Mode	Number	Frequency	Bandwidth	(kHz)		Verdict
		(MHz)	(kHz)			
	0	2402	1.000	>695.333	20dB BW	PASS
GFSK	39	2441	1.000	>695.333	20dB BW	PASS
	78	2480	1.000	>696.000	20dB BW	PASS
	0	2402	1.000	>912.667	2/3 of 20dB BW	PASS
π/4-DQPSK	39	2441	1.000	>913.333	2/3 of 20dB BW	PASS
	78	2480	1.000	>916.667	2/3 of 20dB BW	PASS
	0	2402	1.000	>870.667	2/3 of 20dB BW	PASS
8DPSK	39	2441	1.000	>872.000	2/3 of 20dB BW	PASS
	78	2480	1.000	>876.000	2/3 of 20dB BW	PASS

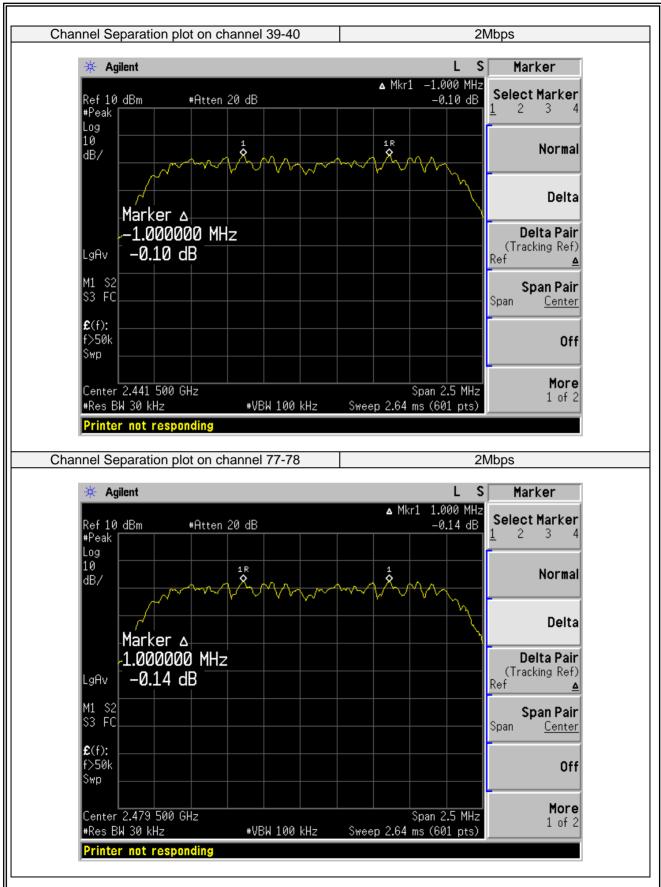




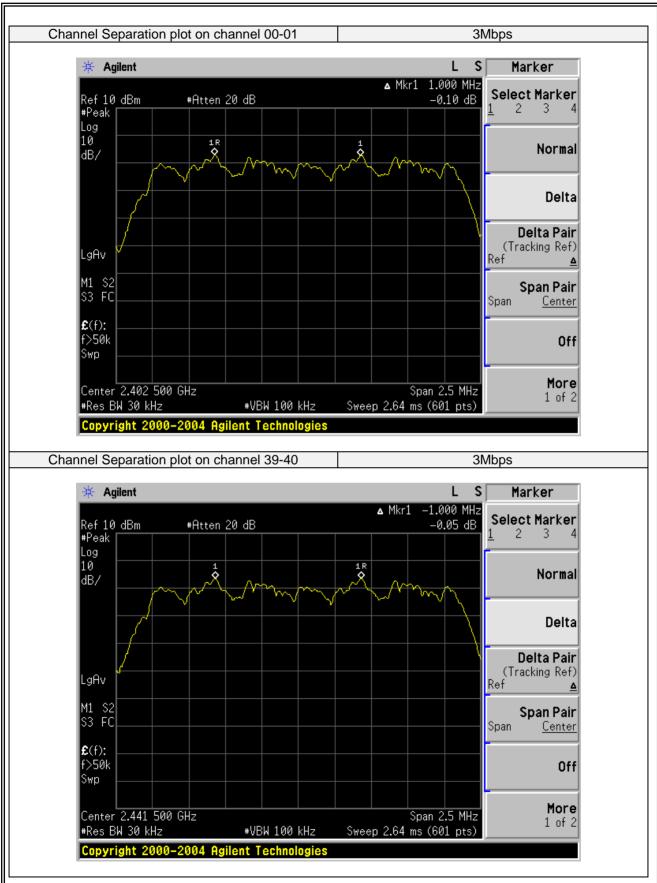




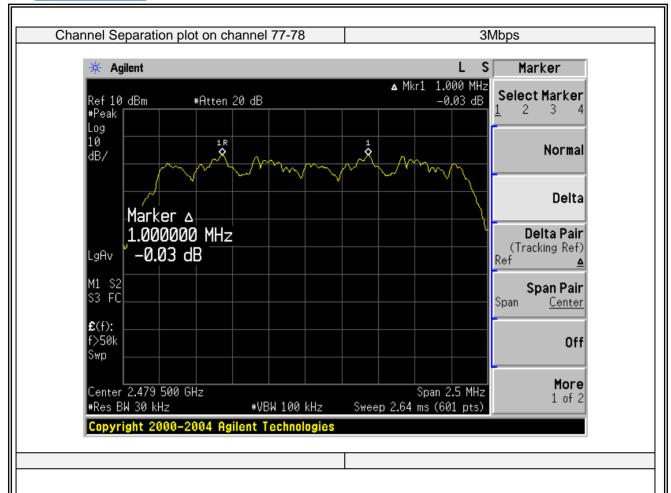














7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 **Applicable Standard**

According to FCC Part 15.247(a)(1)(iii) and DA 00-705

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

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7.5.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 **Test Setup**

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW ≥ 1MHz

 $VBW \geq RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.



7.5.6 Test Results

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

Modulation Mode	Channel Number	Packet type	Mode	Hops Over Occupancy Time (ms)	Pulse width (ms)	dwell time (ms)	Limit (ms)	Verdict
	39	DH1	Normal	320.00	0.452	144.640	<400	PASS
	39		AFH	160.00	0.452	72.320	<400	PASS
GFSK	39	DH3	Normal	160.00	1.668	266.880	<400	PASS
GFSK	39	כווט	AFH	80.00	1.668	133.440	<400	PASS
	39	DH5	Normal	106.67	2.911	310.516	<400	PASS
	39	כרום	AFH	53.33	2.911	155.244	<400	PASS
	39	2DH1	Normal	320.00	0.424	135.680	<400	PASS
	39		AFH	160.00	0.424	67.840	<400	PASS
π/4-DQPSK	39	2DH3	Normal	160.00	1.668	266.880	<400	PASS
11/4-DQFSK	39		AFH	80.00	1.668	133.440	<400	PASS
	39	2DH5	Normal	106.67	2.926	312.116	<400	PASS
	39		AFH	53.33	2.926	156.044	<400	PASS
8DPSK	39	3DH1	Normal	320.00	0.424	135.680	<400	PASS
	39		AFH	160.00	0.424	67.840	<400	PASS
	39	3DH3	Normal	160.00	1.682	269.120	<400	PASS
	39		AFH	80.00	1.682	134.560	<400	PASS
	39	3DH5	Normal	106.67	2.911	310.516	<400	PASS
	39		AFH	53.33	2.911	155.244	<400	PASS

Note:

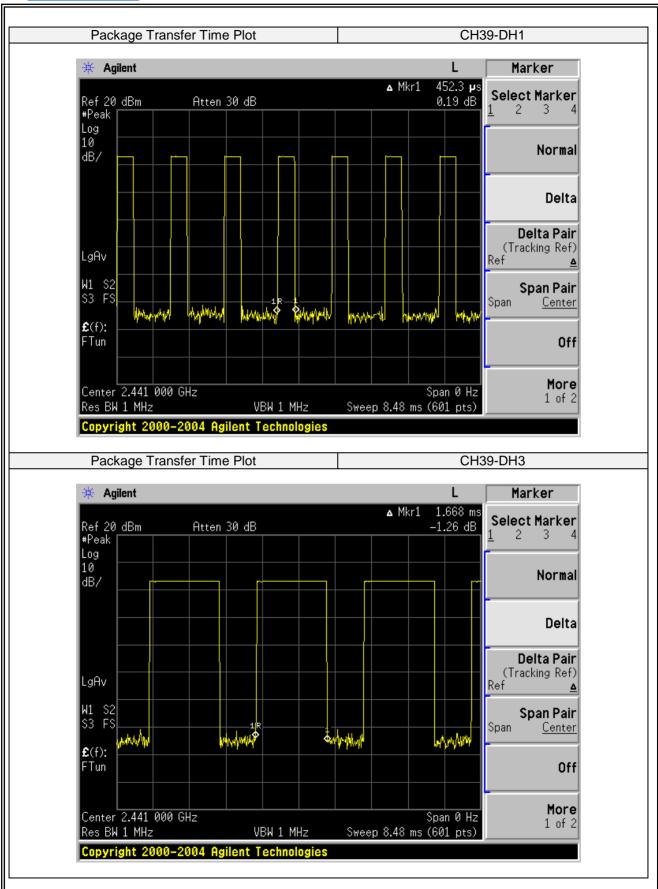
A Period Time = (channel number)*0.4

DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

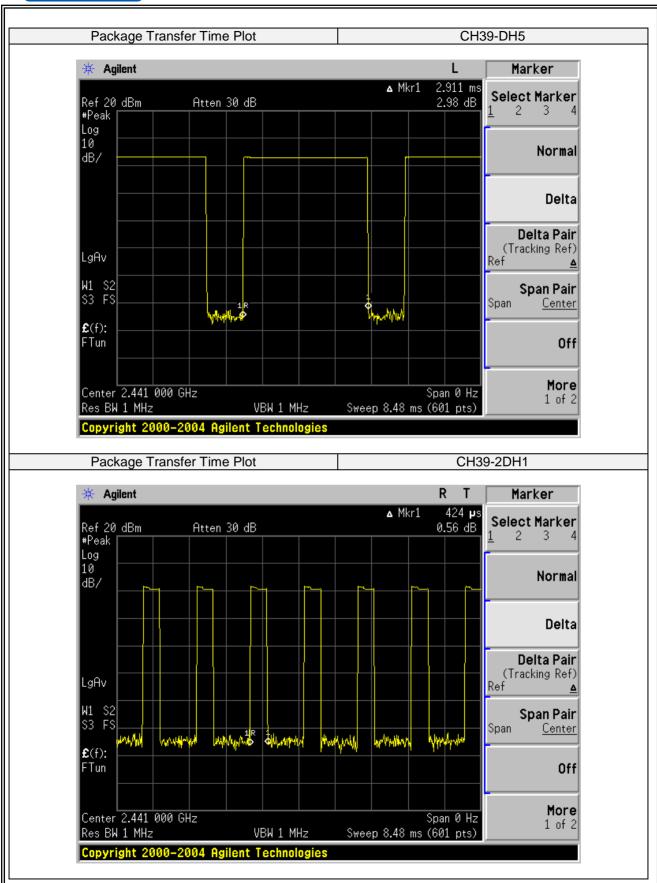
For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

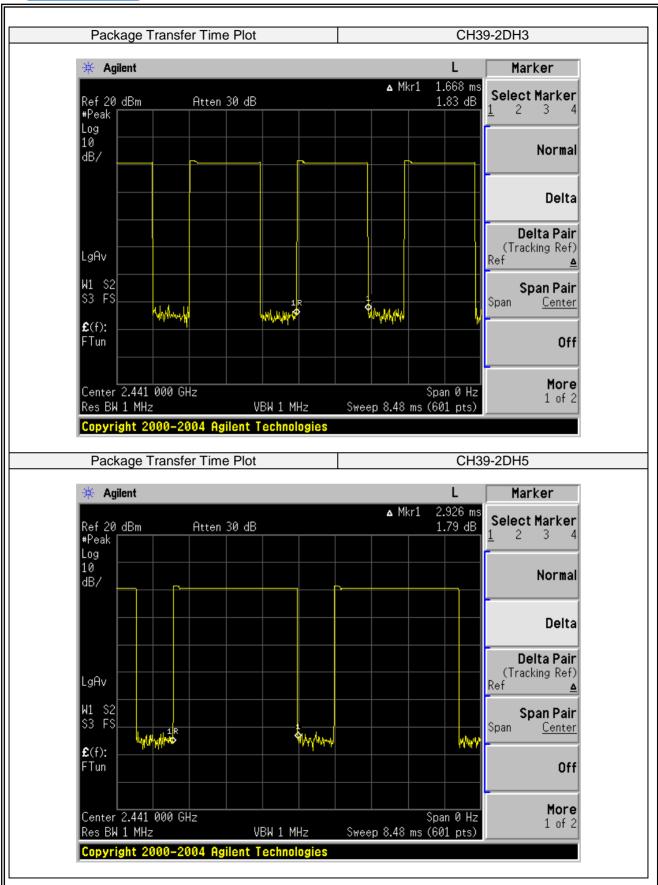




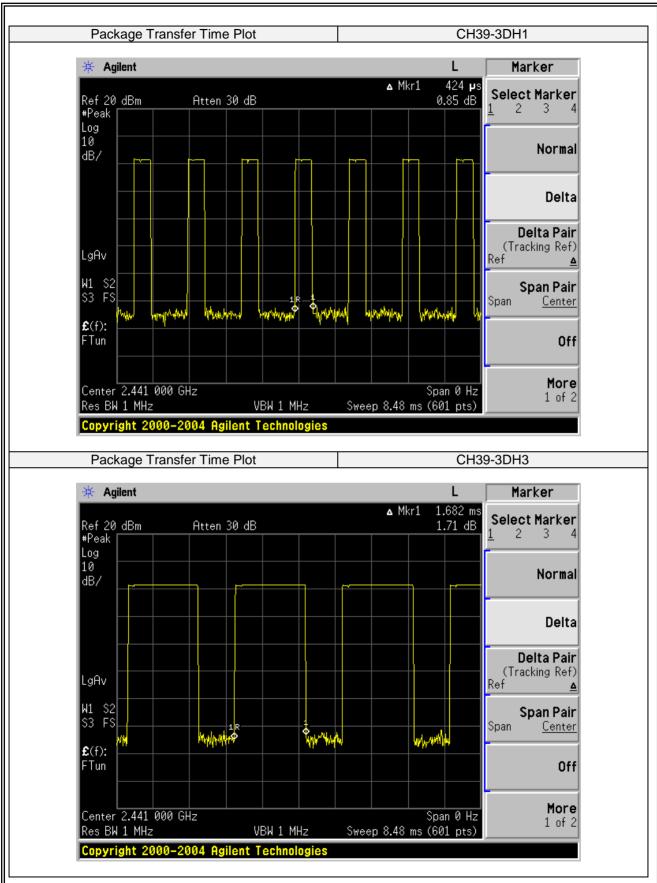


















7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

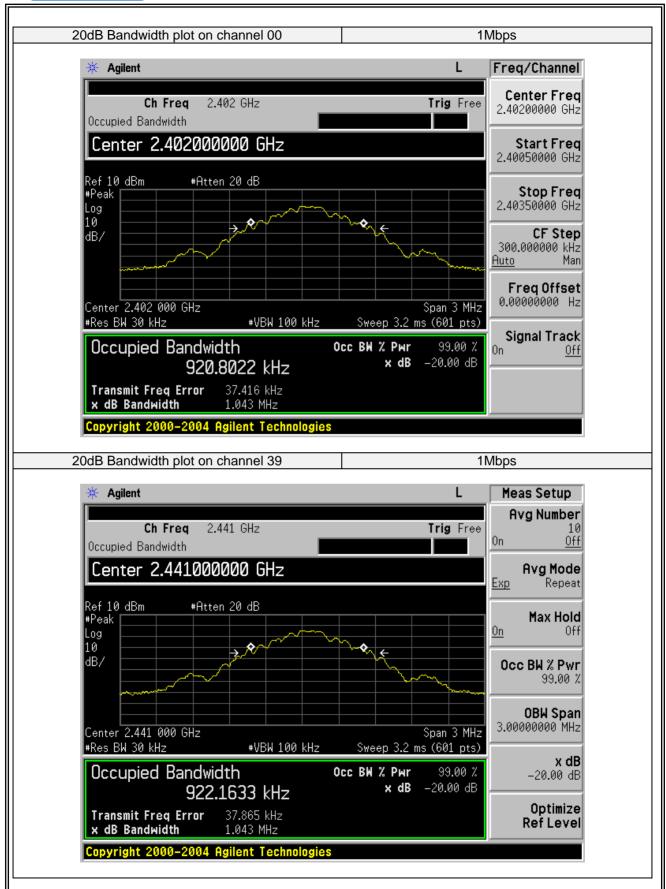
7.6.6 Test Results

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

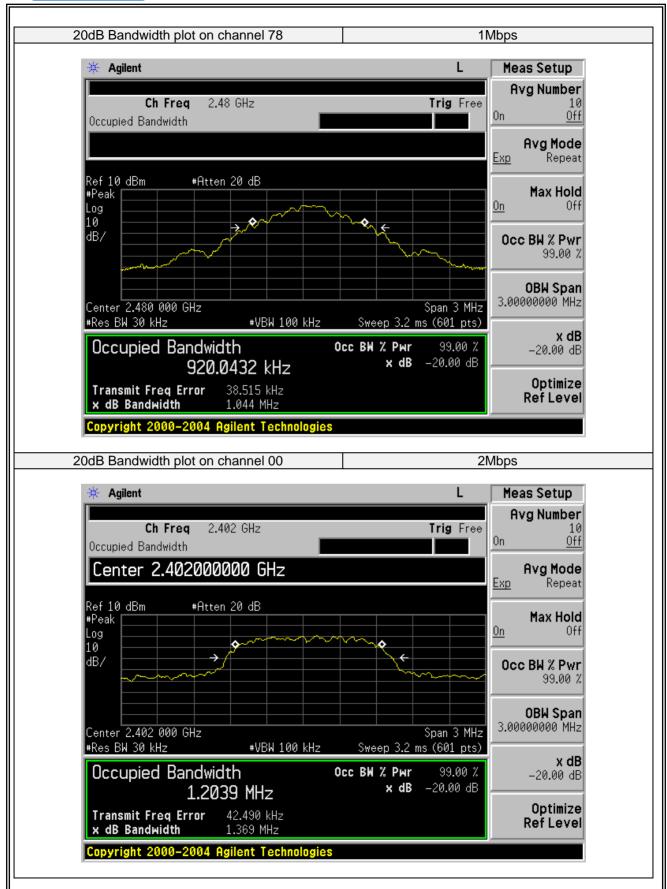
Test Channel	Frequency (MHz)	Measurement Bandwidth (KHz)	Limit (kHz)	Verdict	
	1Mbps				
00	2402	1043.000	N/A	PASS	
39	2441	1043.000	N/A	PASS	
78	2480	1044.000	N/A	PASS	
	2Mbps				
00	2402	1369.000	N/A	PASS	
39	2441	1370.000	N/A	PASS	
78	2480	1375.000	N/A	PASS	
3Mbps					
00	2402	1306.000	N/A	PASS	
39	2441	1308.000	N/A	PASS	
78	2480	1314.000	N/A	PASS	

Note: N/A (Not Applicable)

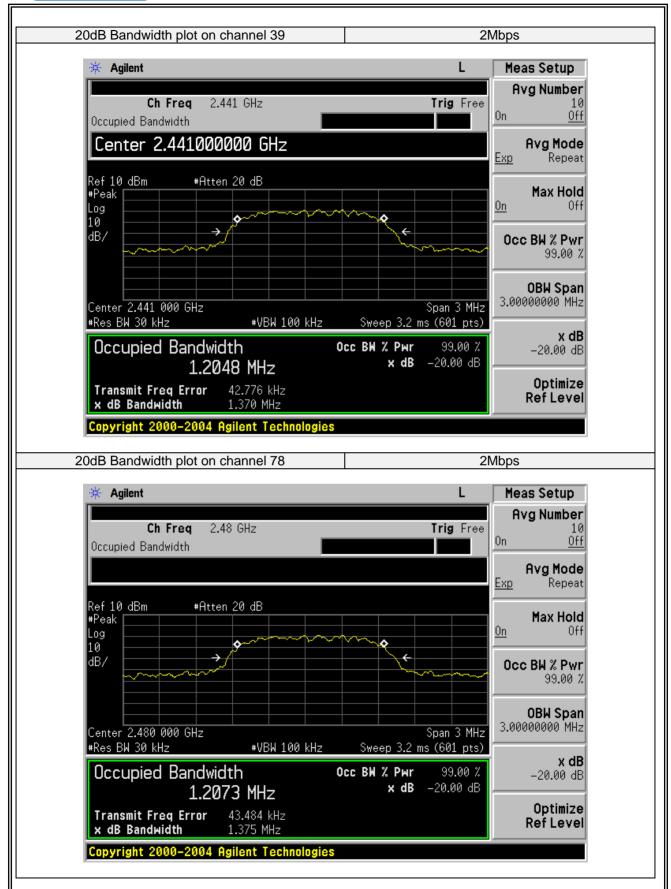




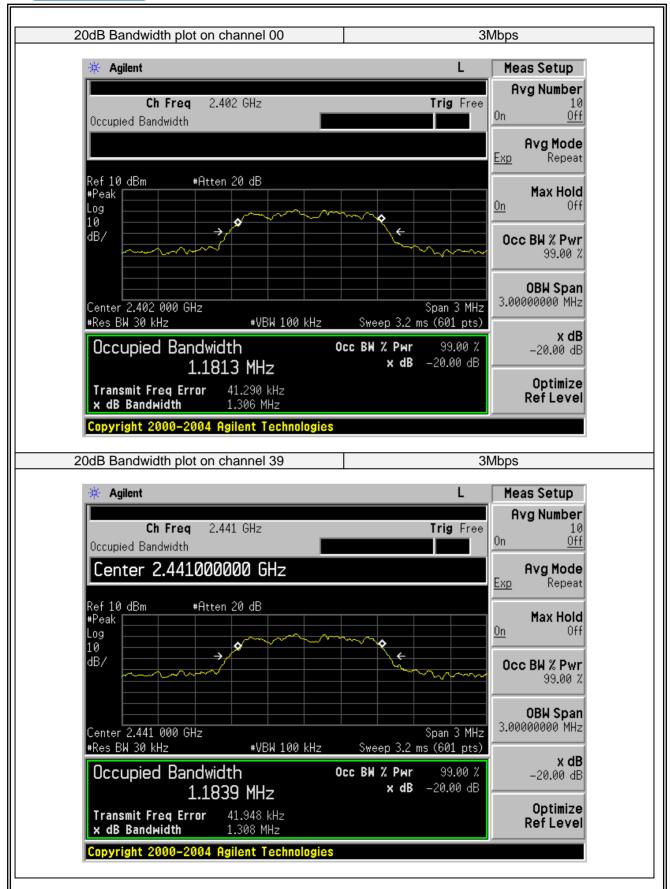




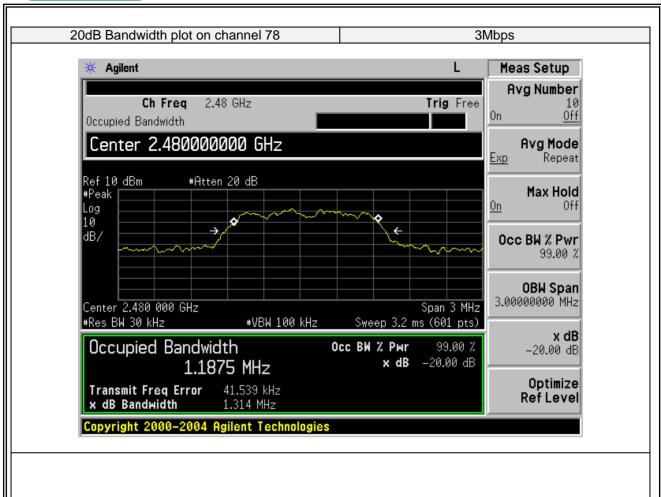














7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and DA 00-705

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

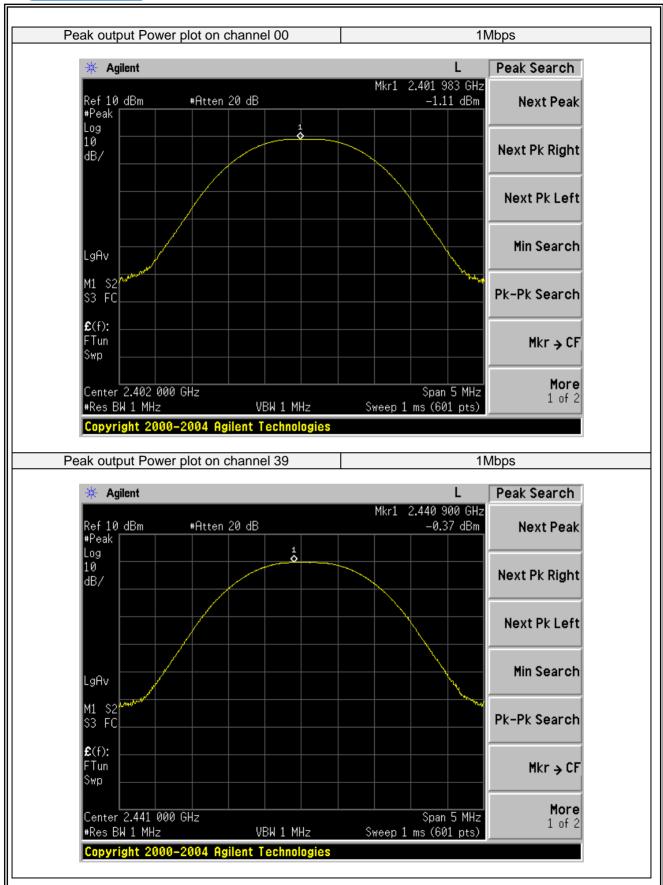
Trace = max hold

7.7.6 Test Results

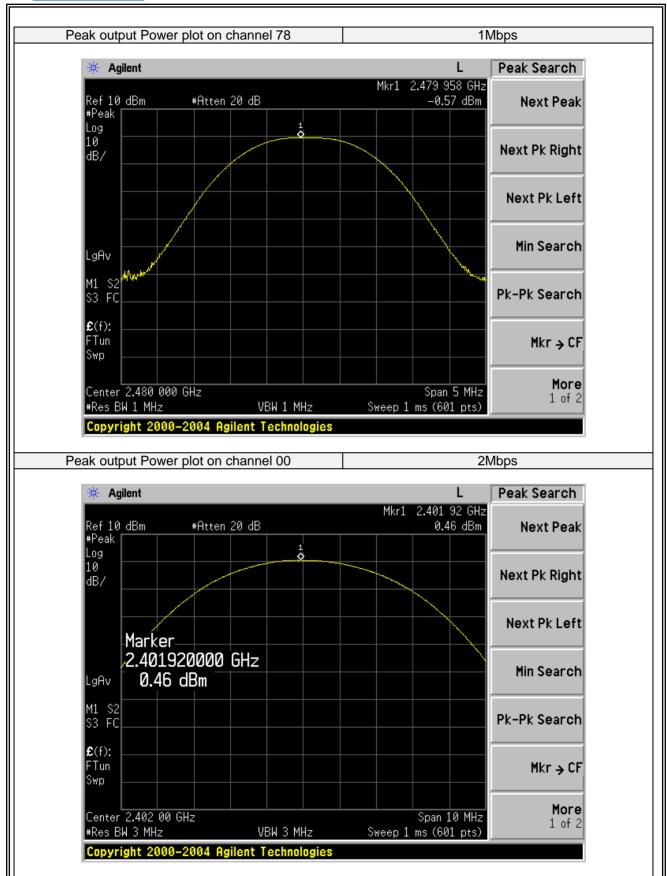
EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict
			1Mbps		
00	2402	Default	-1.11	30	PASS
39	2441	Default	-0.37	30	PASS
78	2480	Default	-0.57	30	PASS
	2Mbps				
00	2402	Default	0.46	20.97	PASS
39	2441	Default	1.16	20.97	PASS
78	2480	Default	0.82	20.97	PASS
	3Mbps				
00	2402	Default	0.65	20.97	PASS
39	2441	Default	1.32	20.97	PASS
78	2480	Default	1.03	20.97	PASS

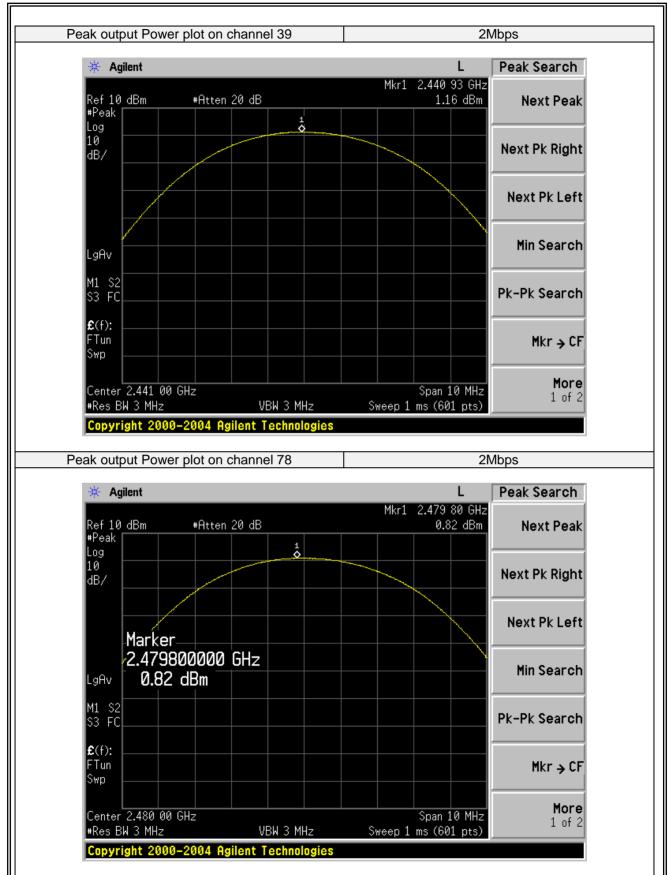




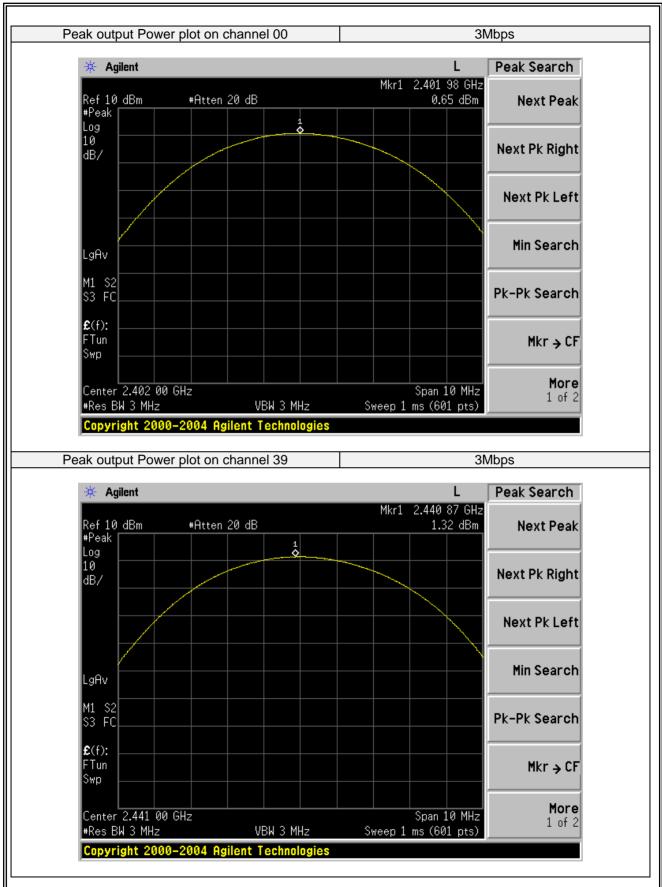




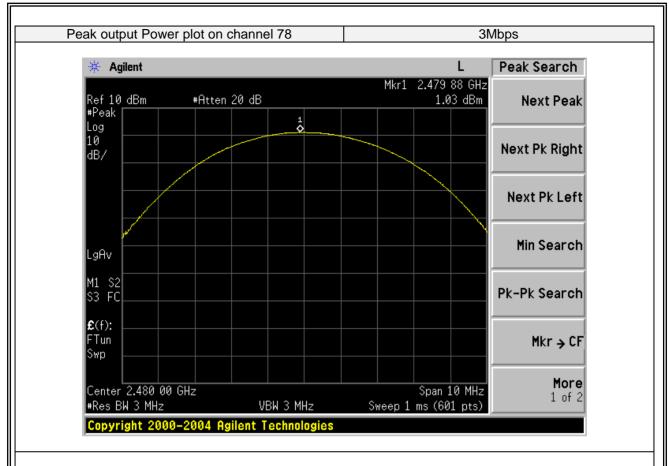














7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and DA 00-705

7.8.2 Conformance Limit

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) (see §15.205(c)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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.

Repeat above procedures until all measured frequencies were complete.

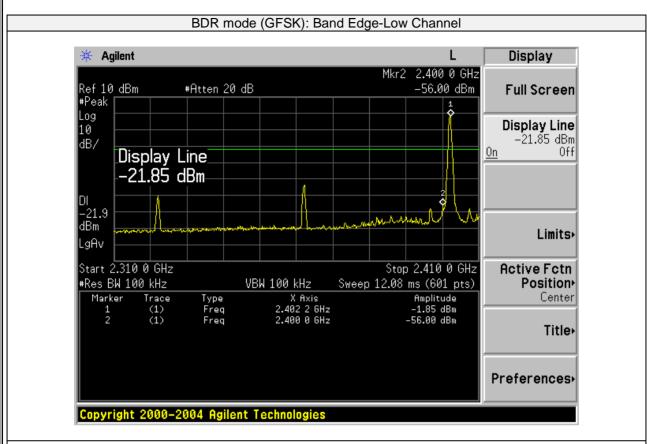


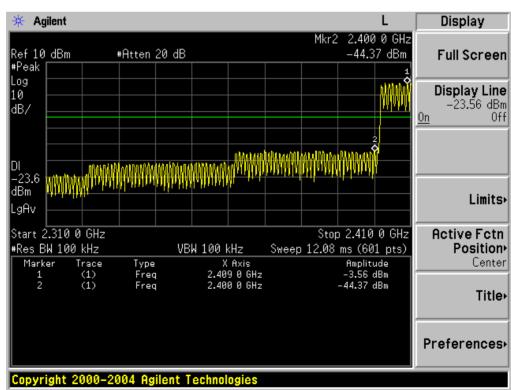
7.8.6 Test Results

EUT:	bluetooth speaker	Model No.:	BV500
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Allen Liu

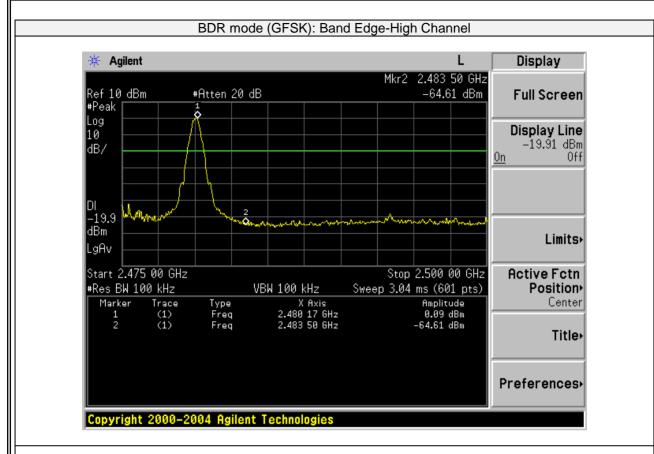
Note: Hopping enabled and disabled have evaluated, and the wortest data was reported

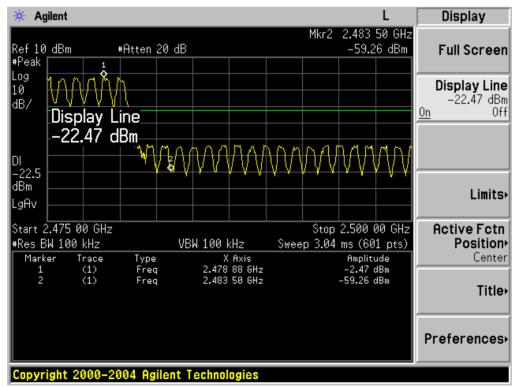




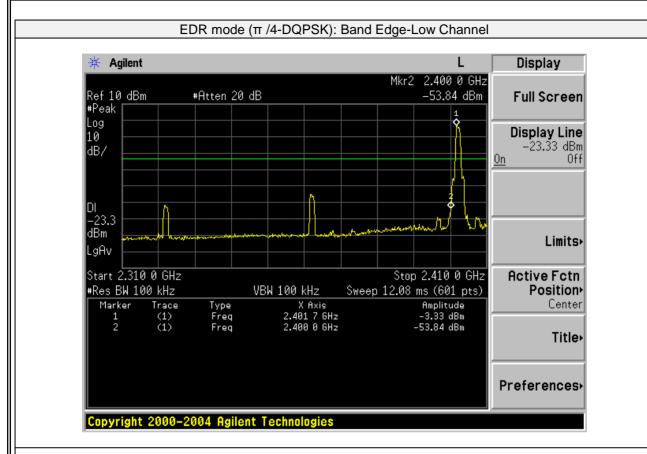


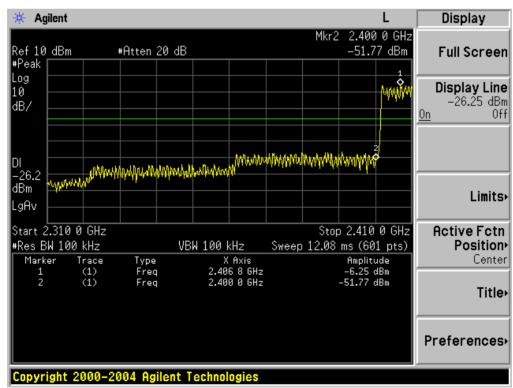




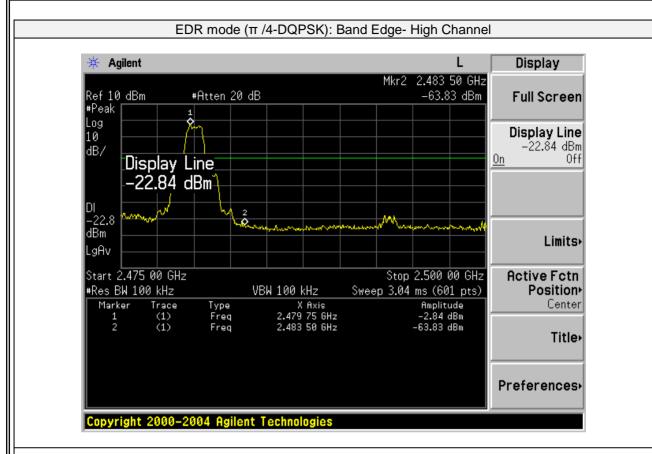


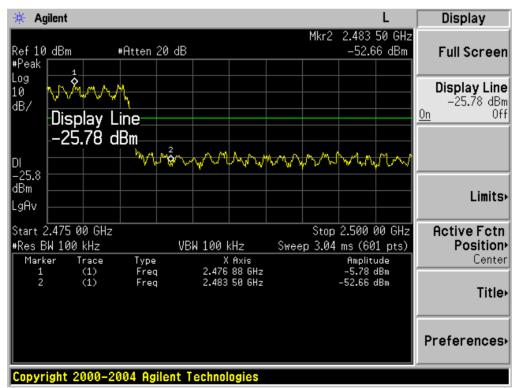




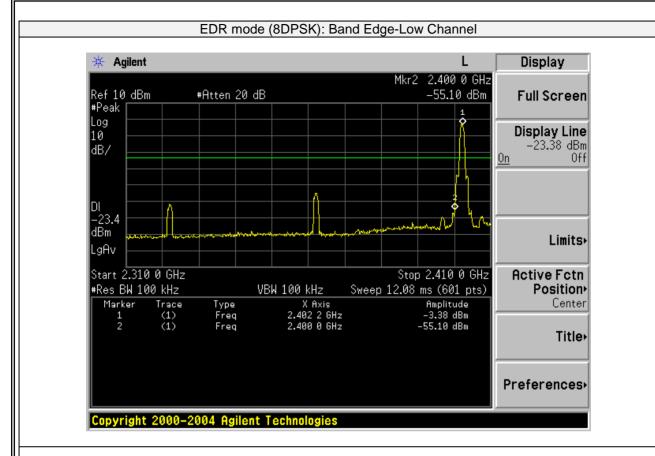


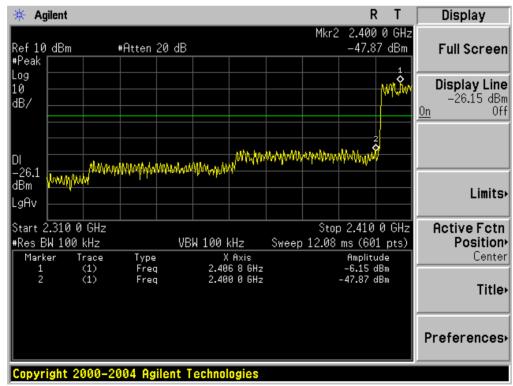




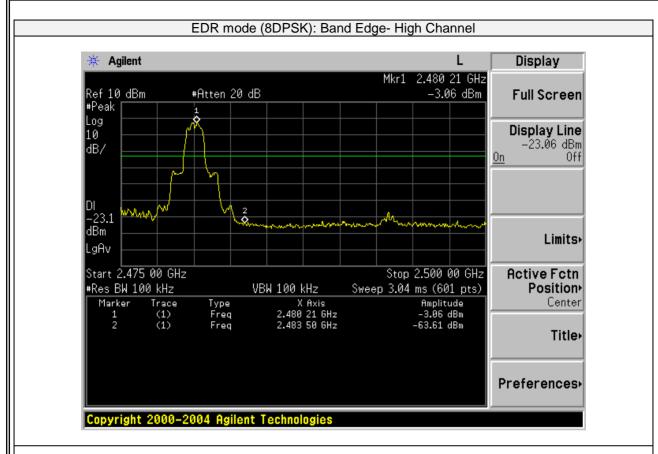


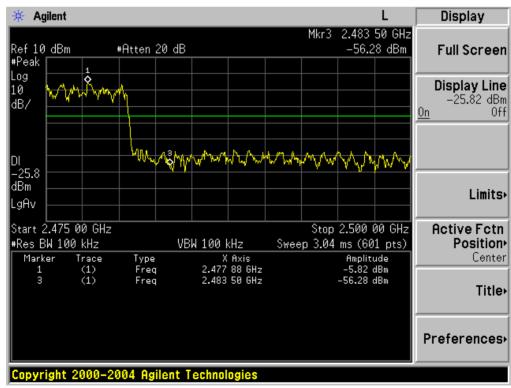














7.9 ANTENNA APPLICATION

7.9.1 Antenna 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 partyshall be used with the device.

7.9.2 **Result**

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



END OF REPORT