

RADIO TEST REPORT FCC ID: 2ACII-6704

Product: Dura Tunes BT Speaker

Trade Name: i.Sound

Model No.: ISOUND-6704

Serial Model: ISOUND-6705, ISOUND-6706

Report No.: NTEK-2016NT07307950F

Issue Date: 11 Aug. 2016

Prepared for

CREATIVE GAME ACCESSORIES CO.,LTD 4/F,Block A, Dajiahao Square, No.362 2nd Yu'an Road,Xin'an Street, Bao'an District, Shenzhen, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Creative Game Accessories Co.,LTD
Address:	4/F,Block A, Dajiahao Square, No.362 2nd Yu'an Road,Xin'an Street, Bao'an District, Shenzhen, China
Manufacture's Name:	Creative Game Accessories Co.,LTD
Address	4/F,Block A , Dajiahao Square, No.362 2nd Yu'an Road,Xin'an Street, Bao'an District, Shenzhen, China
Product description	
Product name:	Dura Tunes BT Speaker
Model and/or type reference:	ISOUND-6704
Serial Model:	ISOUND-6705, ISOUND-6706

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J:2016 FCC 47 CFR Part 15, Subpart C:2016 KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013	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.

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

Date of Test	: 30 Jul. 2016 ~ 11 Aug. 2016	
Testing Engineer	Susan Su	
	(Susan Su)	
Technical Manager	Jason chen	
	(Jason Chen)	
	Sam. Chen	
Authorized Signatory	:	
	(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		

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



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	Dura Tunes BT Speaker	
Trade Name	i.Sound	
FCC ID	2ACII-6704	
Model No.	ISOUND-6704	
Serial Model	ISOUND-6705, ISOUND-6706	
Model Difference	All the model are the same circuit and RF module, except the model No. and colour.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8DPSK	
Number of Channels	79 Channels	
Bluetooth Version	V2.1+EDR	
Antenna Type	PCB Antenna	
Antenna Gain	0 dBi	
Dower cumply	☑DC supply: DC 3.7V/1000mAh from Li-ion Battery	
Power supply	⊠Adapter supply: AC 120-240V/60Hz	
HW Version	V3.0	
SW Version	V2.0	

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-2016NT07307950F	Rev.01	Initial issue of report	Aug 11, 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.

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: $fc=2402MHz+k\times 1MHz$ 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	Final Test Mode Description		
Mode 1	BT link and charging mode		

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

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	GFSK	
Mode 2	π/4-DQPSK	
Mode 3	8DPSK	

Note: For radiated test cases, the worst mode data 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. The EUT is use fully-charged battery to test.

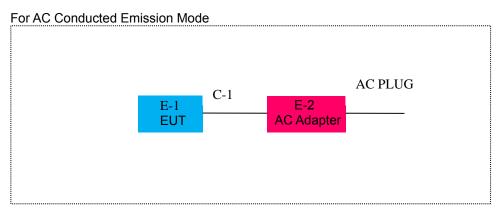
For Conducted Test Cases		
Final Test Mode	Description	
Mode 1	GFSK	
Mode 2	π/4-DQPSK	
Mode 3	8DPSK	

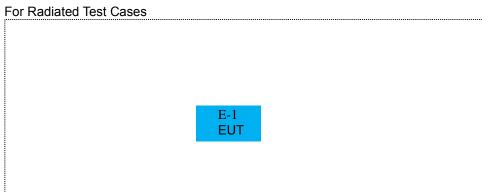
Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode. The EUT is use fully-charged battery to test.

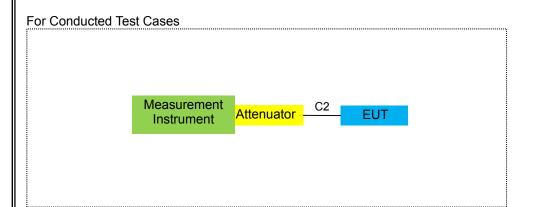


6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM







The temporary antenna connector C2 is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the SUPPORT equipment list.



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.

			a		
Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note
E-1	DuraTunes	N/A	ISOUND-6704	2ACII-6704	EUT
E-2	AC Adapter	N/A	JF005WR-0500100UU	N/A	

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

- (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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	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	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	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	Test Cable	9KHz-2GHz	R-01	N/A	2016.07.06	2017.07.05	1 year
11	Test Cable	800MHz-26GH z	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Cond	iuction rest equ	alpinent					
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	Test Cable	100KHz-50MHz	C01	N/A	2016.06.08	2017.06.07	1 year
6	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 C63.10

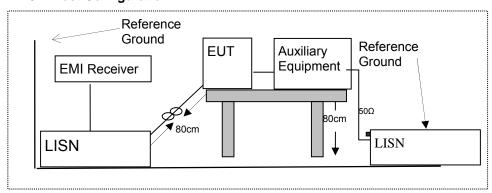
7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit				
Frequency(WiF12)	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.

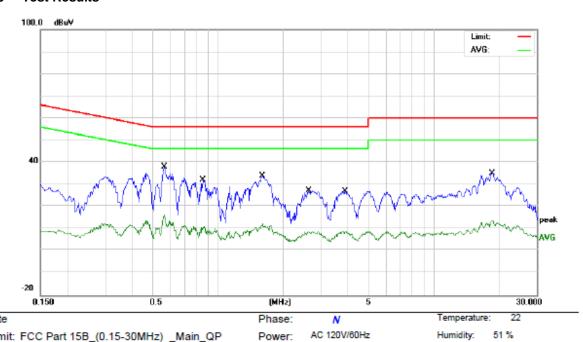
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). 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



7.1.6 Test Results

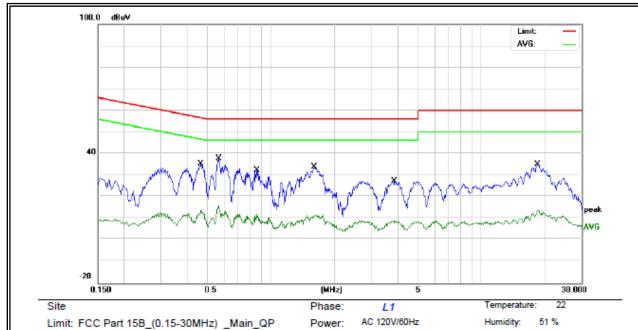


Limit: FCC Part 15B_(0.15-30MHz) _Main_QP

Mode: Normal Link

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.5660	28.16	9.83	37.99	56.00	-18.01	QP	
2	0.5660	6.24	9.83	16.07	46.00	-29.93	AVG	
3	0.8500	22.16	9.86	32.02	56.00	-23.98	QP	
4	0.8500	0.93	9.86	10.79	46.00	-35.21	AVG	
5	1.6060	24.02	9.83	33.85	56.00	-22.15	QP	
6	1.6060	2.25	9.83	12.08	46.00	-33.92	AVG	
7	2.6340	17.43	9.78	27.21	56.00	-28.79	QP	
8	2.6340	-1.02	9.78	8.76	46.00	-37.24	AVG	
9	3.8900	17.26	9.78	27.04	56.00	-28.96	QP	
10	3.8900	-1.19	9.78	8.59	46.00	-37.41	AVG	
11	18.5499	24.93	10.02	34.95	60.00	-25.05	QP	
12	18.5499	3.53	10.02	13.55	50.00	-36.45	AVG	

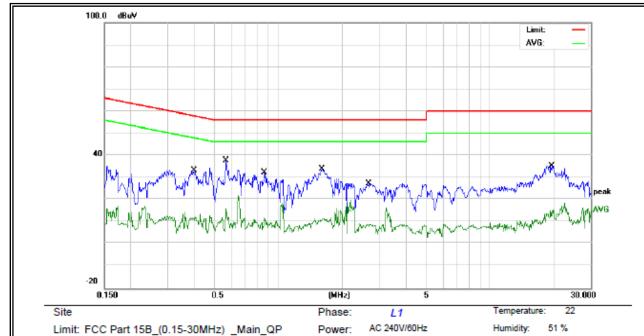




Mode: Normal Link

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.4660	25.49	9.89	35.38	56.58	-21.20	QP	
2	0.4660	3.76	9.89	13.65	46.58	-32.93	AVG	
3 *	0.5658	28.05	9.80	37.85	56.00	-18.15	QP	
4	0.5658	6.14	9.80	15.94	46.00	-30.06	AVG	
5	0.8579	22.63	9.84	32.47	56.00	-23.53	QP	
6	0.8579	2.07	9.84	11.91	46.00	-34.09	AVG	
7	1.6019	24.19	9.81	34.00	56.00	-22.00	QP	
8	1.6019	1.31	9.81	11.12	46.00	-34.88	AVG	
9	3.8780	17.32	9.81	27.13	56.00	-28.87	QP	
10	3.8780	-1.13	9.81	8.68	46.00	-37.32	AVG	
11	18.5819	25.10	10.06	35.16	60.00	-24.84	QP	
12	18.5819	3.45	10.06	13.51	50.00	-36.49	AVG	

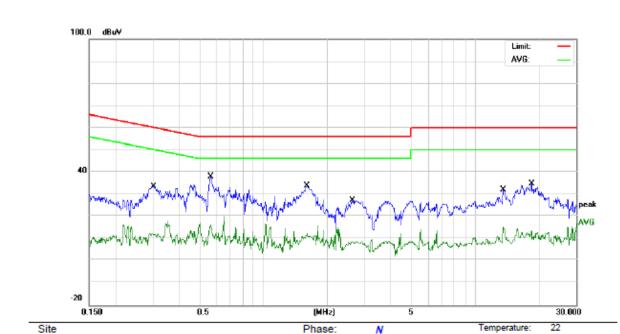




Mode: Normal Link

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3980	23.17	10.04	33.21	57.89	-24.68	QP	
2		0.3980	1.34	10.04	11.38	47.89	-36.51	AVG	
3	*	0.5658	28.05	9.80	37.85	56.00	-18.15	QP	
4		0.5658	6.14	9.80	15.94	46.00	-30.06	AVG	
5		0.8578	22.63	9.84	32.47	56.00	-23.53	QP	
6		0.8578	2.07	9.84	11.91	46.00	-34.09	AVG	
7		1.6019	24.19	9.81	34.00	56.00	-22.00	QP	
8		1.6019	1.31	9.81	11.12	46.00	-34.88	AVG	
9		2.6659	17.44	9.78	27.22	56.00	-28.78	QP	
10		2.6659	-0.88	9.78	8.90	46.00	-37.10	AVG	
11		19.5939	25.22	10.08	35.30	60.00	-24.70	QP	
12		19.5939	5.31	10.08	15.39	50.00	-34.61	AVG	





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

AC 240V/60Hz Power:

Humidity: 51 %

Mode: Normal Link

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3019	23.45	10.13	33.58	60.19	-26.61	QP	
2		0.3019	1.70	10.13	11.83	50.19	-38.36	AVG	
3	*	0.5658	28.16	9.83	37.99	56.00	-18.01	QP	
4		0.5658	6.24	9.83	16.07	46.00	-29.93	AVG	
5		1.6060	24.02	9.83	33.85	56.00	-22.15	QP	
6		1.6060	2.25	9.83	12.08	46.00	-33.92	AVG	
7		2.6339	17.43	9.78	27.21	56.00	-28.79	QP	
8		2.6339	-1.02	9.78	8.76	46.00	-37.24	AVG	
9		13.6059	22.29	9.91	32.20	60.00	-27.80	QP	
10		13.6059	5.24	9.91	15.15	50.00	-34.85	AVG	
11		18.4818	24.68	10.02	34.70	60.00	-25.30	QP	
12		18.4818	-0.02	10.02	10.00	50.00	-40.00	AVG	



7.2 RADIATED SPURIOUS EMISSION

7.2.1 **Applicable Standard**

According to FCC Part 15.247(d) and 15.209 and C63.10

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

According to 1 CC 1 art 13.20	o, restricted barras		
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)

Elimite of Radiated Elimeter inedediction(/ beve receiving)						
Fraguanov(MHz)	Class B (dBuV	/m) (at 3M)				
Frequency(MHz)	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.

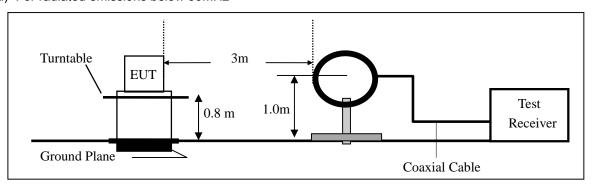


7.2.3 Measuring Instruments

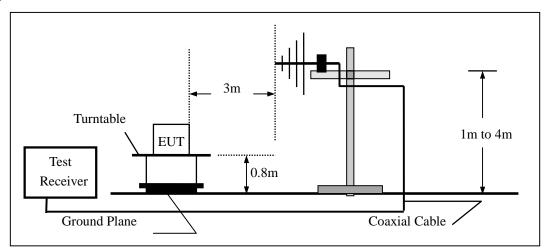
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

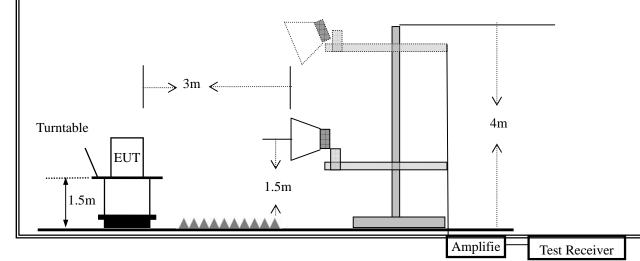
(a) For radiated emissions below 30MHz



(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. 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.
- 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	
Ah awa 4000	Peak		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:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Freq.	Ant.Pol.	. Emission Level(dBuV/m) Limit 3m(dBuV/m)			m(dBuV/m)	Ovei	r(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.

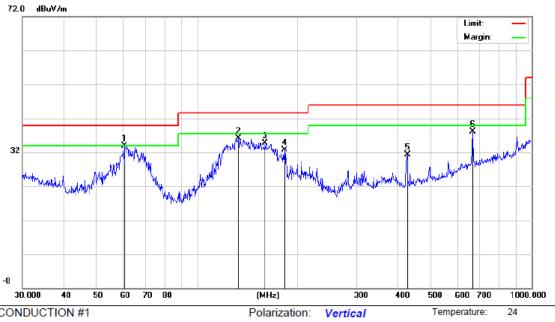
Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor

Humidity:

50 %



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:



Site CONDUCTION #1

Limit: FCC_PART15_B_03m_QP

Mode: BT link for GFSK Low Channel (2402 MHz)

Note:

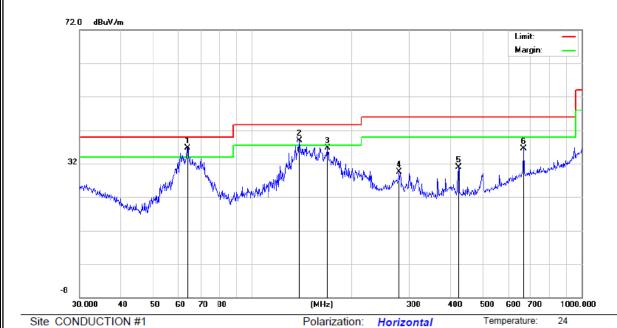
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	60.7043	27.16	6.83	33.99	40.00	-6.01	QP			
2		133.1511	24.17	12.03	36.20	43.50	-7.30	QP			
3		159.7844	22.22	12.48	34.70	43.50	-8.80	QP			
4		182.5592	19.56	13.14	32.70	43.50	-10.80	QP			
5		425.0280	15.31	16.08	31.39	46.00	-14.61	QP			
6		665.8034	16.20	22.00	38.20	46.00	-7.80	QP			

Power:

DC 3.7V

Humidity: 50 %





Site CONDUCTION #1

Limit: FCC_PART15_B_03m_QP

Mode: BT link for GFSK Low Channel (2402 MHz)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	63.7588	30.23	6.47	36.70	40.00	-3.30	QP			
2	İ	139.3610	26.85	12.09	38.94	43.50	-4.56	QP			
3		169.5988	23.26	13.54	36.80	43.50	-6.70	QP			
4		280.0237	16.19	13.22	29.41	46.00	-16.59	QP			
5		423.5403	14.85	16.05	30.90	46.00	-15.10	QP			
6		668.1422	14.43	22.06	36.49	46.00	-9.51	QP			

Power: DC 3.7V



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

EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

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

		N. 4 =	Limite	Englander Laurel	Et	Matau Dandina	F
Comment	Remar	Margin	Limits	Emission Level	Factor	Meter Reading	Frequency
	k	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)
			ove 1G	nel (2402 MHz)-Abo	Low Chan		
Vertical	Pk	-15.98	74.00	58.02	-3.64	54.38	4804.029
Vertical	AV	-10.61	54.00	43.39	-3.64	39.75	4804.246
Vertical	Pk	-12.63	74.00	61.37	-0.95	60.42	7206.169
Vertical	AV	-11.69	54.00	42.31	-0.95	41.36	7206.177
Horizontal	Pk	-11.79	74.00	62.21	-3.64	58.57	4804.346
Horizontal	AV	-8.67	54.00	45.33	-3.64	41.69	4804.274
Horizontal	Pk	-15.87	74.00	58.13	-0.95	57.18	7206.252
Horizontal	AV	-11.69	54.00	42.31	-0.95	41.36	7206.203
			ove 1G	nel (2441 MHz)-Abo	Mid Chan		
Vertical	Pk	-10.07	74.00	63.93	-3.68	60.25	4882.171
Vertical	AV	-11.74	54.00	42.26	-3.68	38.58	4882.277
Vertical	Pk	-14.60	74.00	59.40	-0.82	58.58	7323.176
Vertical	AV	-11.93	54.00	42.07	-0.82	41.25	7323.169
Horizontal	Pk	-11.99	74.00	62.01	-3.68	58.33	4882.258
Horizontal	AV	-9.30	54.00	44.70	-3.68	41.02	4882.362
Horizontal	Pk	-15.60	74.00	58.40	-0.82	57.58	7323.145
Horizontal	AV	-11.91	54.00	42.09	-0.82	41.27	7323.142
			ove 1G	nel (2480 MHz)- Ab	High Chan		
Vertical	Pk	-13.18	74.00	60.82	-3.59	57.23	4960.485
Vertical	AV	-10.14	54.00	43.86	-3.59	40.27	4960.524
Vertical	Pk	-15.99	74.00	58.01	-0.68	57.33	7440.341
Vertical	AV	-13.99	54.00	40.01	-0.68	39.33	7440.297
Horizontal	Pk	-12.83	74.00	61.17	-3.59	57.58	4960.374
Horizontal	AV	-10.75	54.00	43.25	-3.59	39.66	4960.177
Horizontal	Pk	-12.19	74.00	61.81	-0.68	61.13	7440.336
Horizontal	AV	-11.84	54.00	42.16	-0.68	41.48	7440.275

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:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

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)	Type	Comment
			GFSK Non-	hopping			
2390	56.72	-13.06	43.66	74.00	-30.34	Pk	Vertical
2390	55.07	-13.06	42.01	54.00	-11.99	AV	Vertical
2483.5	57.67	-12.78	44.89	74.00	-29.11	Pk	Horizontal
2483.5	56.52	-12.78	43.74	54.00	-10.26	AV	Horizontal
	<u>, </u>		GFSK ho	pping			
2390	62.45	-13.06	49.39	74.00	-24.61	Pk	Vertical
2390	56.28	-13.06	43.22	54.00	-10.78	AV	Vertical
2483.5	63.61	-12.78	50.83	74.00	-23.17	Pk	Horizontal
2483.5	55.09	-12.78	42.31	54.00	-11.69	AV	Horizontal

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



■ Spurious Emission in Restricted Band 3260MMHz-18000MHz									
EUT: DuraTunes Model No.: ISOUND-6704									
Temperature:	20 ℃	Relative Humidity:	48%						
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su						

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

Frequency	Meter Reading	Factor	Emission Level	Emission Level Limits		Detector	Commont	
(MHz)	(MHz) (dBµV)		(dB) (dBµV/m)		(dBµV/m) (dB)		Comment	
GFSK Non-hopping								
3260	56.14	-13.06	43.08	74	-30.92	Pk	Vertical	
3260	55.32	-13.06	42.26	54	-11.74	AV	Vertical	
3260	57.51	-13.06	44.45	74	-29.55	Pk	Horizontal	
3260	54.28	-13.06	41.22	54	-12.78	AV	Horizontal	
3435	60.36	-12.78	47.58	74	-26.42	Pk	Vertical	
3435	49.58	-12.78	36.80	54	-17.20	AV	Vertical	
3435	60.37	-12.78	47.59	74	-26.41	Pk	Horizontal	
3435	50.02	-12.78	37.24	54	-16.76	AV	Horizontal	
17215	61.15	-12.24	48.91	74	-25.09	Pk	Vertical	
17215	53.48	-12.24	41.24	54	-12.76	AV	Vertical	
17215	61.32	-12.24	49.08	74	-24.92	Pk	Horizontal	
17215	53.56	-12.24	41.32	54	-12.68	AV	Horizontal	
			GFSK ho	pping		ı	_	
3260	58.42	-13.06	45.36	74	-28.64	Pk	Vertical	
3260	52.35	-13.06	39.29	54	-14.71	AV	Vertical	
3260	58.13	-13.06	45.07	74	-28.93	Pk	Horizontal	
3260	54.24	-13.06	41.18	54	-12.82	AV	Horizontal	
3435	60.23	-12.78	47.45	74	-26.55	Pk	Vertical	
3435	50.68	-12.78	37.9	54	-16.1	AV	Vertical	
3435	60.46	-12.78	47.68	74	-26.32	Pk	Horizontal	
3435	50.39	-12.78	37.61	54	-16.39	AV	Horizontal	
17215	61.24	-12.24	49.00	74	-25.00	Pk	Vertical	
17215	53.47	-12.24	41.23	54	-12.77	AV	Vertical	
17215	62.22	-12.24	49.98	74	-24.02	Pk	Horizontal	
17215	54.26	-12.24	42.02	54	-11.98	AV	Horizontal	

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 C63.10

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

 $RBW \geq 1\% \ of \ the \ span$

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

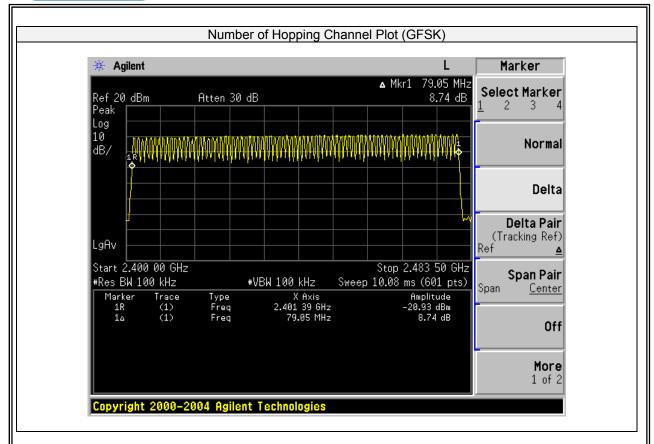
7.3.6 Test Results

EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

All the modulation modes have been tested, and the typical mode is GFSK, was report as below:

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 C63.10

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.

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

 $RBW \geq 30 KHz$

 $VBW \ge 3*RBW$

Sweep = auto

Detector function = peak

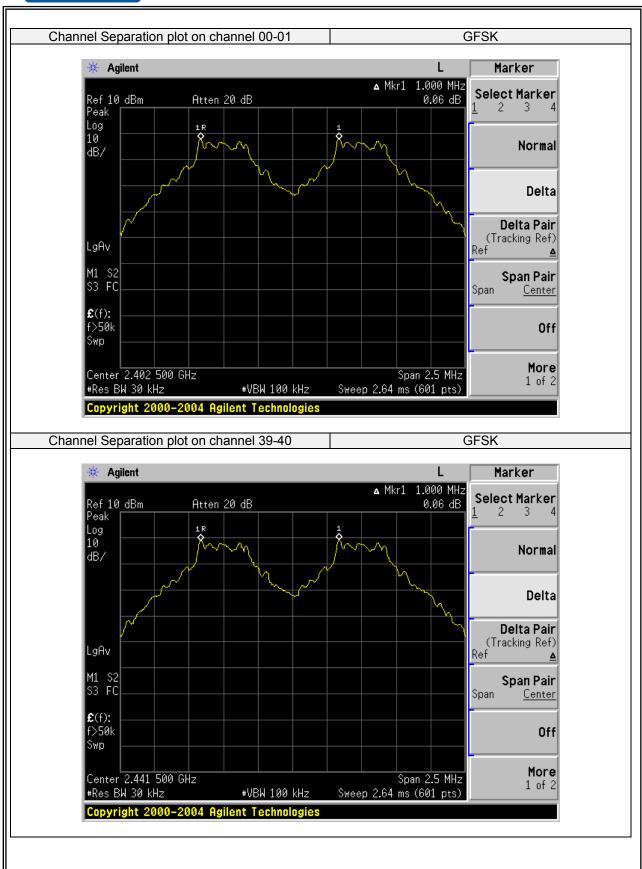
Trace = max hold

7.4.6 Test Results

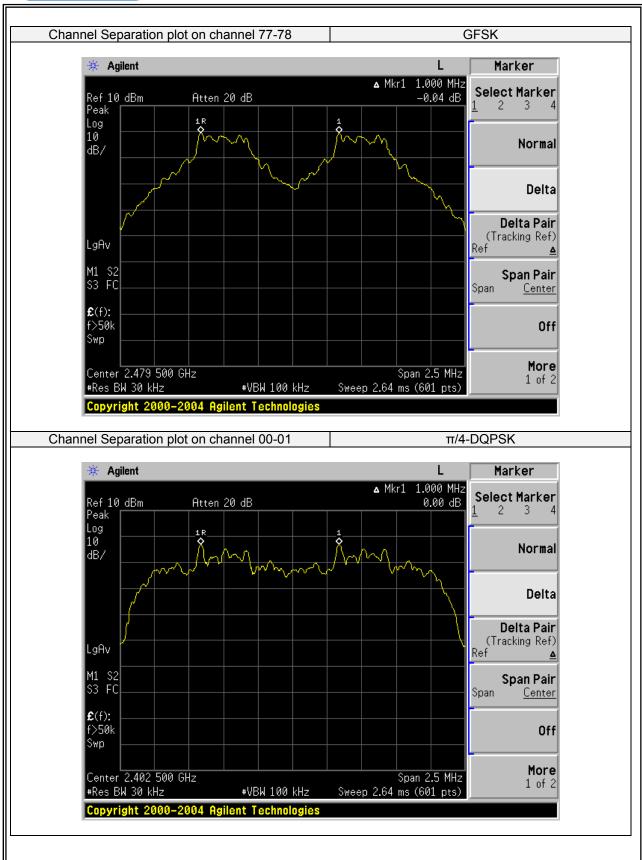
EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Modulation	odulation Channel		Measurement	Limit		
Mode	Number	Frequency	Bandwidth	(kHz)		Verdict
		(MHz)	(kHz)			
	0	2402	1000	>932.923	20dB BW	PASS
GFSK	39	2441	1000	>915.45	20dB BW	PASS
	78	2480	1000	>931.871	20dB BW	PASS
	0	2402	1000	>839.333	2/3 of 20dB BW	PASS
π/4-DQPSK	39	2441	1000	>840.667	2/3 of 20dB BW	PASS
	78	2480	1000	>835.333	2/3 of 20dB BW	PASS
	0	2402	1000	>842.667	2/3 of 20dB BW	PASS
8DPSK	39	2441	1000	>852.667	2/3 of 20dB BW	PASS
	78	2480	1000	>832.667	2/3 of 20dB BW	PASS

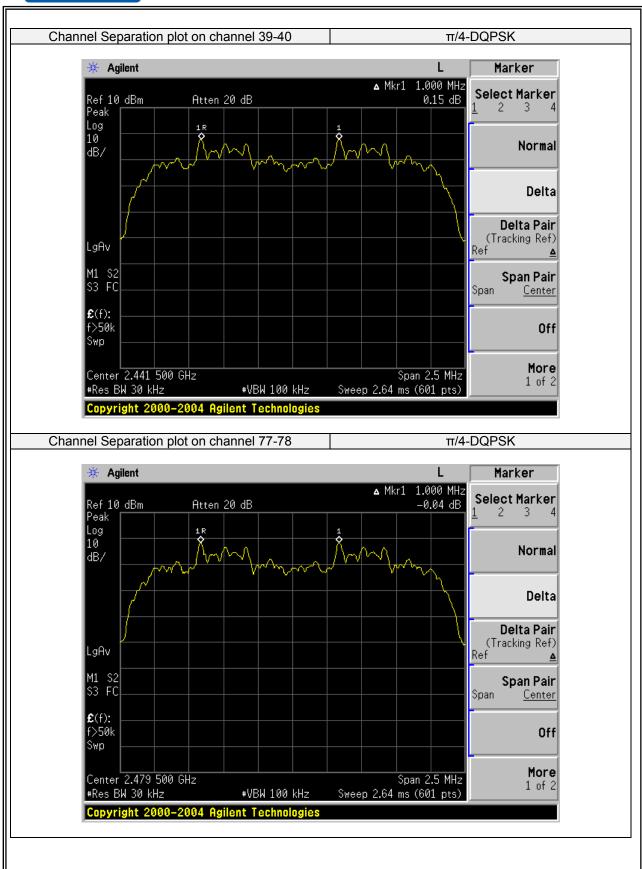




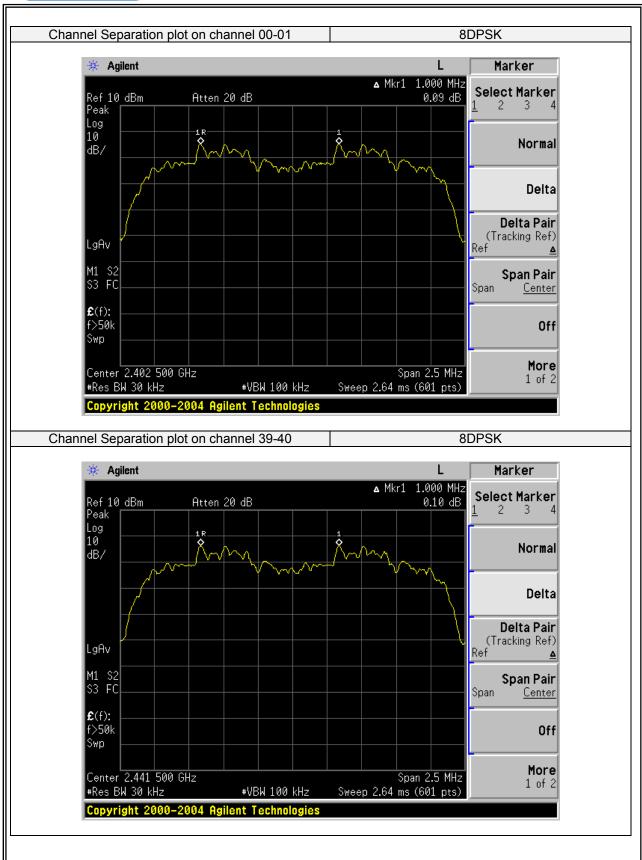




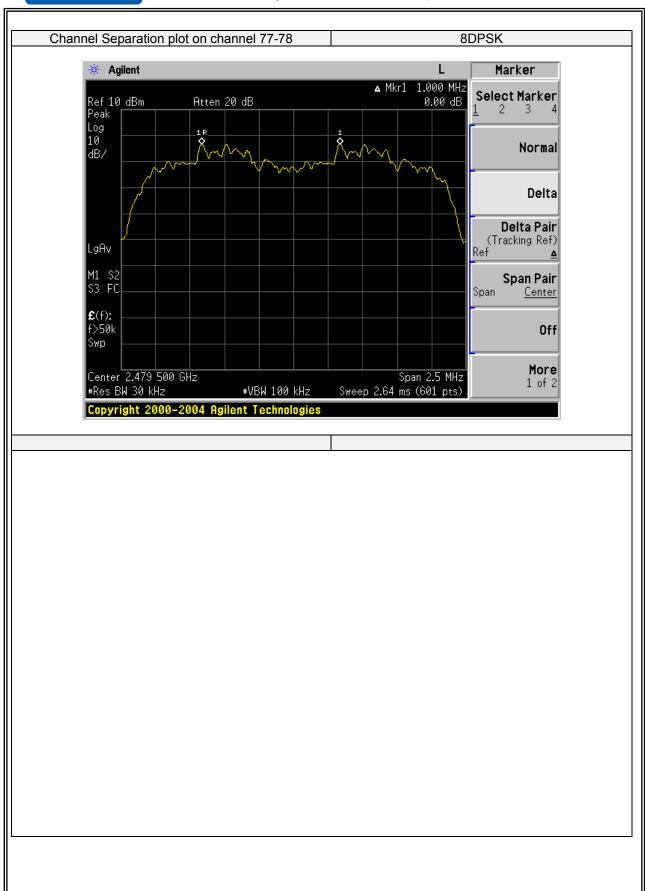














7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and C63.10

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.

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

 $RBW \ge 1MHz$

 $\mathsf{VBW} \geq \mathsf{RBW}$

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:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

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	0.396	126.720	<400	PASS
	39	DITT	AFH	160.00	0.396	63.360	<400	PASS
GFSK	39	DH3	Normal	160.00	1.682	269.120	<400	PASS
GISK	39	סווס	AFH	80.00	1.682	134.560	<400	PASS
	39	DH5	Normal	106.67	2.158	230.194	<400	PASS
	39	טרוט	AFH	53.33	2.158	115.086	<400	PASS
	39	2DH1	Normal	320.00	0.410	131.200	<400	PASS
	39		AFH	160.00	0.410	65.600	<400	PASS
π/4-DQPSK	39	2DH3	Normal	160.00	1.658	265.280	<400	PASS
II/4-DQF3K	39	20113	AFH	80.00	1.658	132.640	<400	PASS
	39	2DH5	Normal	106.67	2.960	315.743	<400	PASS
	39	20113	AFH	53.33	2.960	157.857	<400	PASS
	39	2014	Normal	320.00	0.410	131.200	<400	PASS
8DPSK	39	3DH1	AFH	160.00	0.410	65.600	<400	PASS
	39	20113	Normal	160.00	1.672	267.520	<400	PASS
	39	3DH3	AFH	80.00	1.672	133.760	<400	PASS
	39	3045	Normal	106.67	2.923	311.796	<400	PASS
	39	3DH5	AFH	53.33	2.923	155.884	<400	PASS

Note:

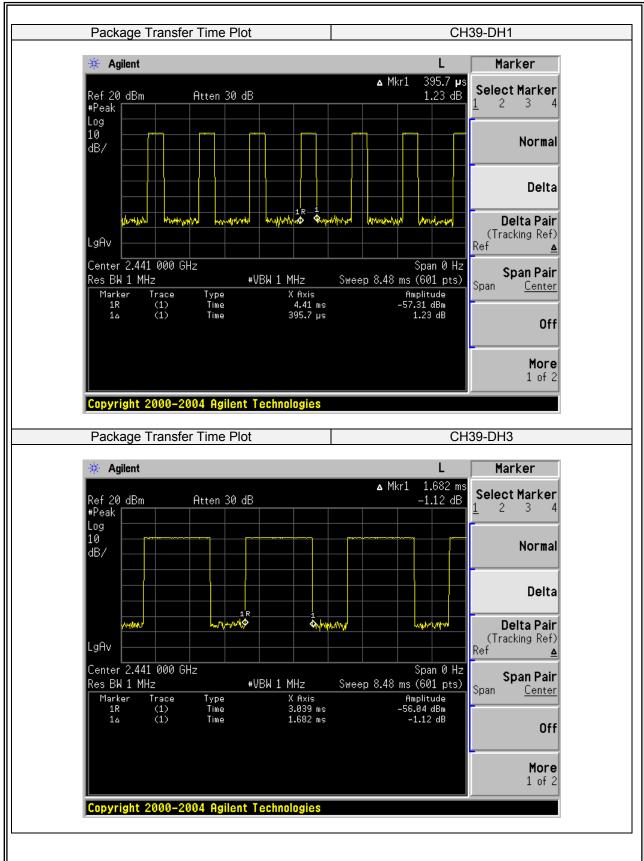
A Period Time = (channel number)*0.4

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)

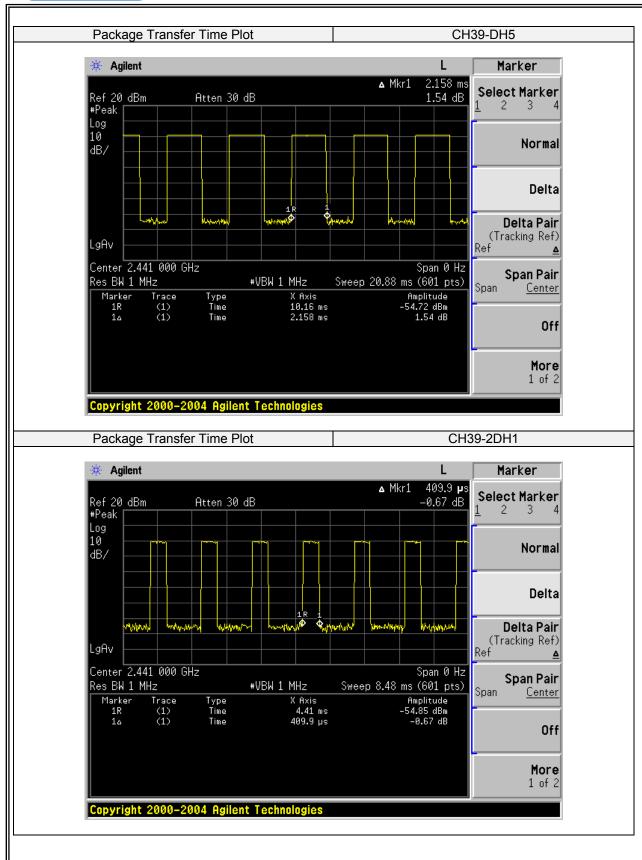
For Example:

- 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.
- 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 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

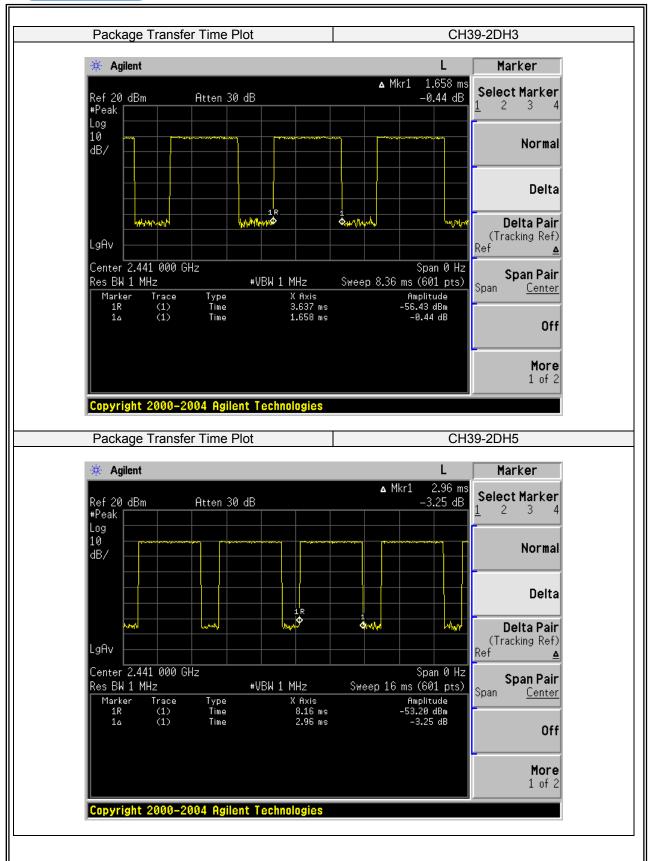




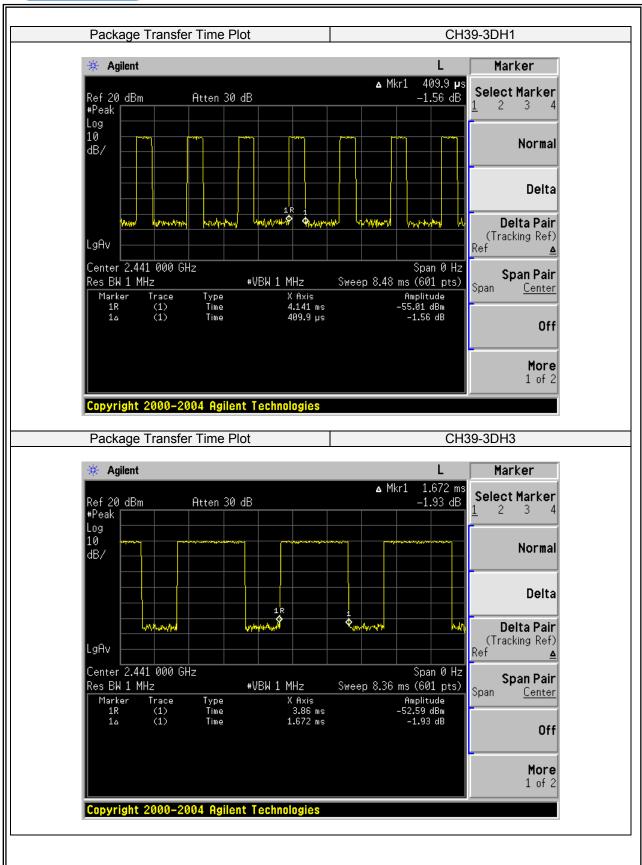




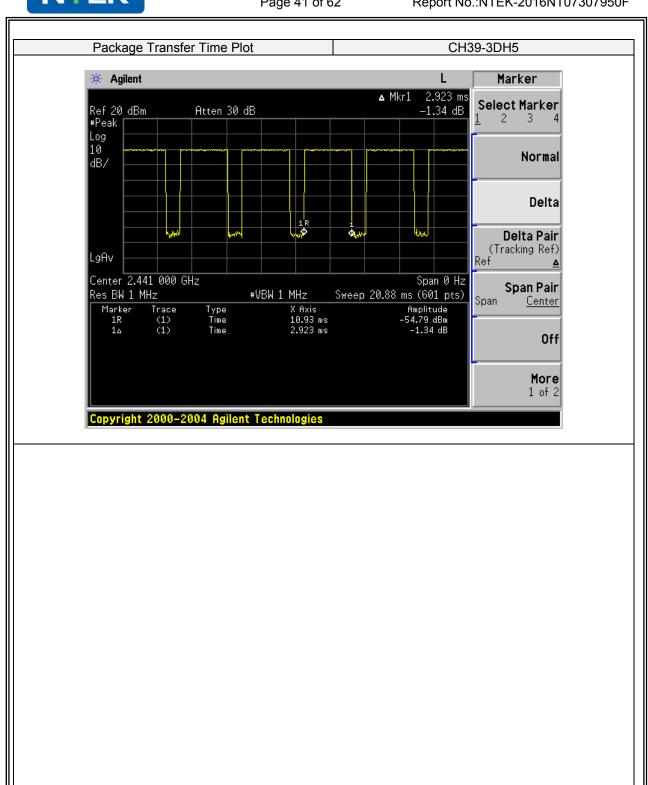














7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and C63.10

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

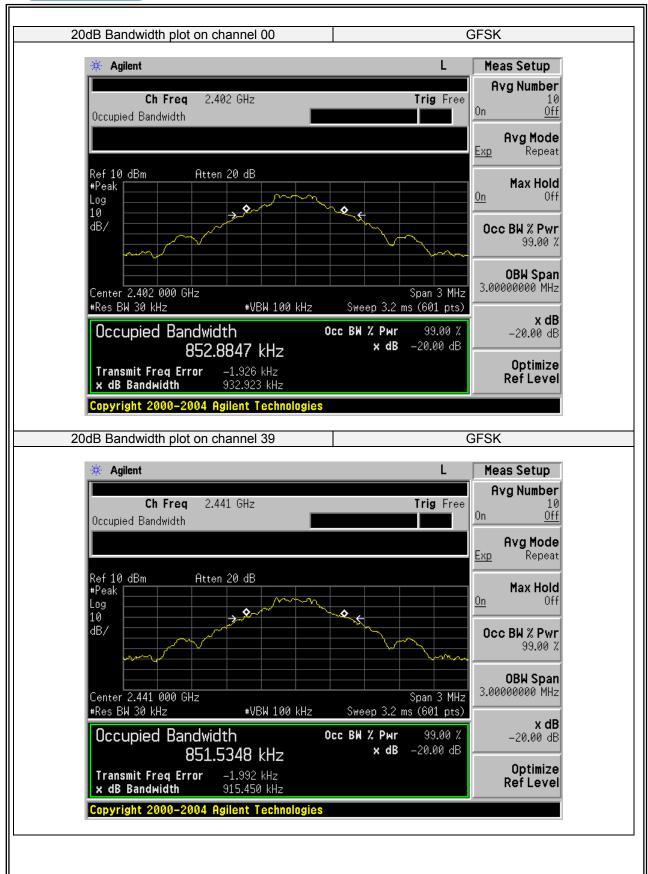
7.6.6 Test Results

EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

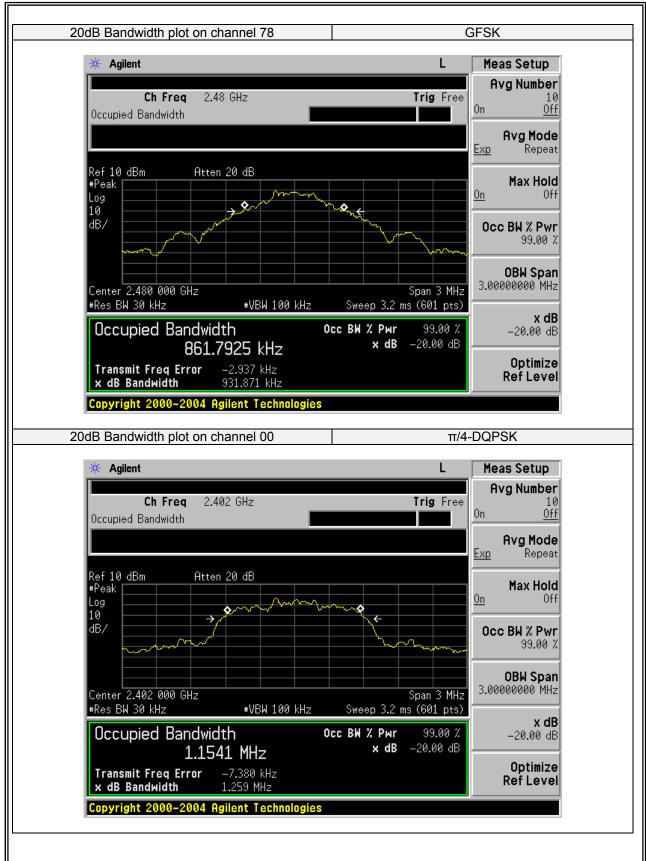
Test Channel Frequency (MHz)	Frequency	Measurement	Limit	Verdict	
	(MHz)	Bandwidth (KHz) (kHz)		verdict	
1Mbps					
00	2402	932.923	N/A	PASS	
39	2441	915.450	N/A	PASS	
78	2480	931.871	N/A	PASS	
2Mbps					
00	2402	1259.000	N/A	PASS	
39	2441	1261.000	N/A	PASS	
78	2480	1253.000	N/A	PASS	
3Mbps					
00	2402	1264.000	N/A	PASS	
39	2441	1279.000	N/A	PASS	
78	2480	1249.000	N/A	PASS	
NI-4 NI/A /NI-4 /	late: N/A (Nlat Amplicable)				

Note: N/A (Not Applicable)

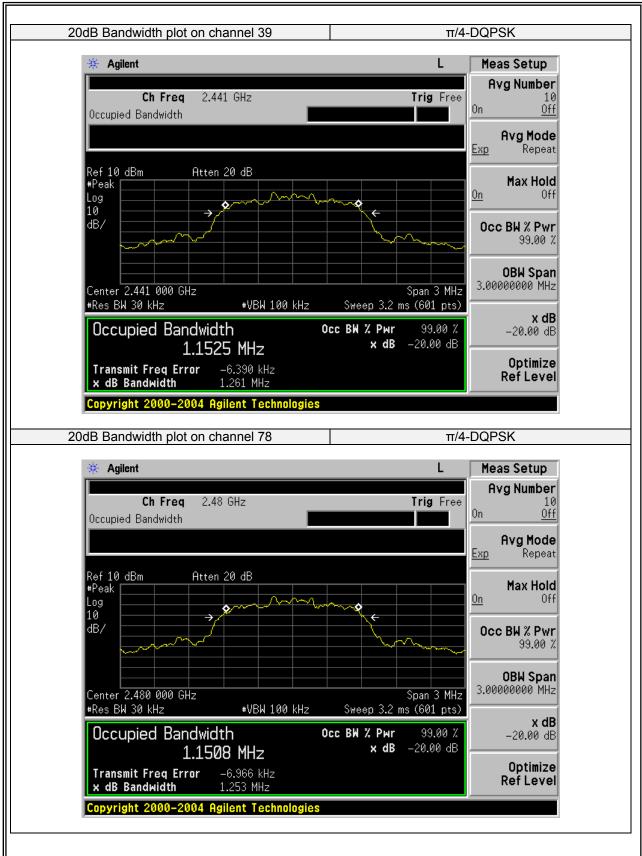




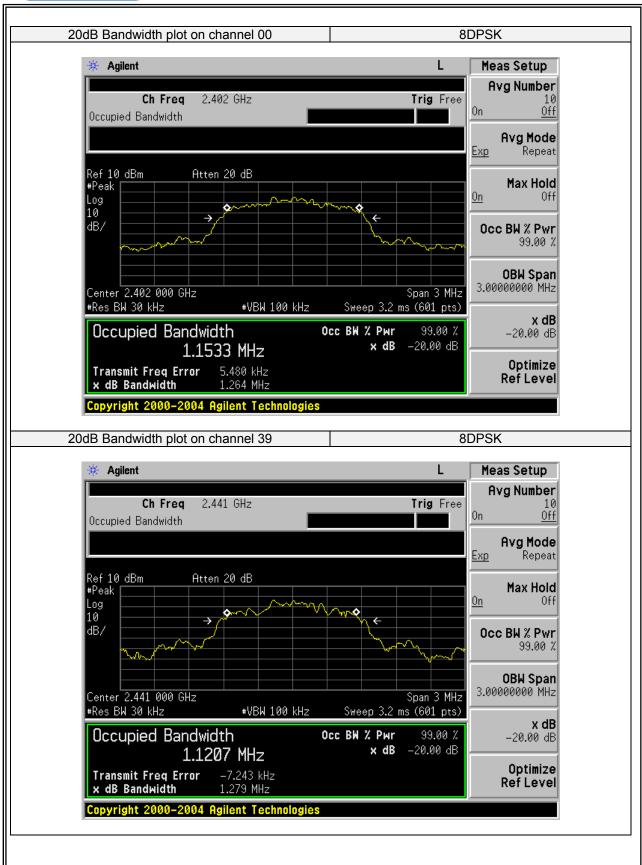


















7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and C63.10

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 \geq the 20 dB bandwidth of the emission being measured

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

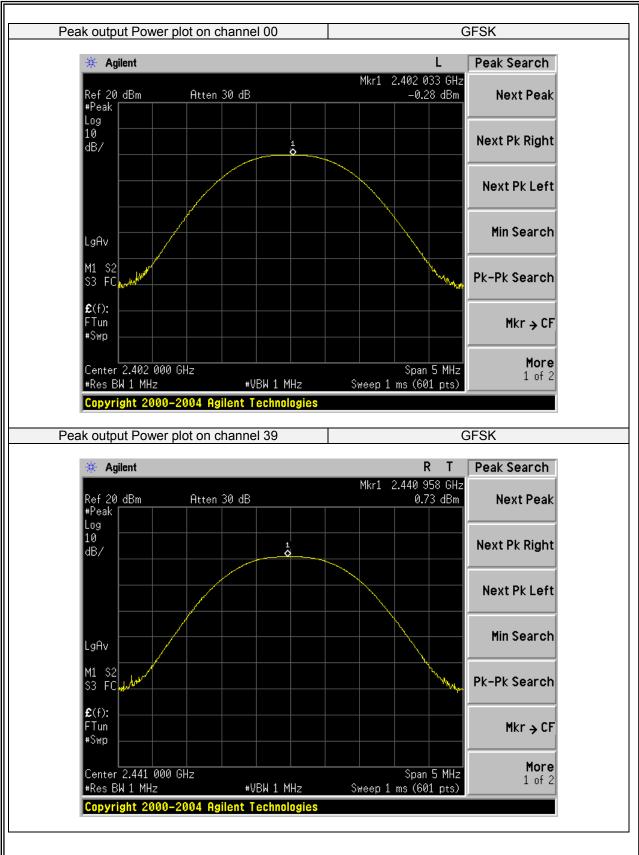
Trace = max hold

7.7.6 Test Results

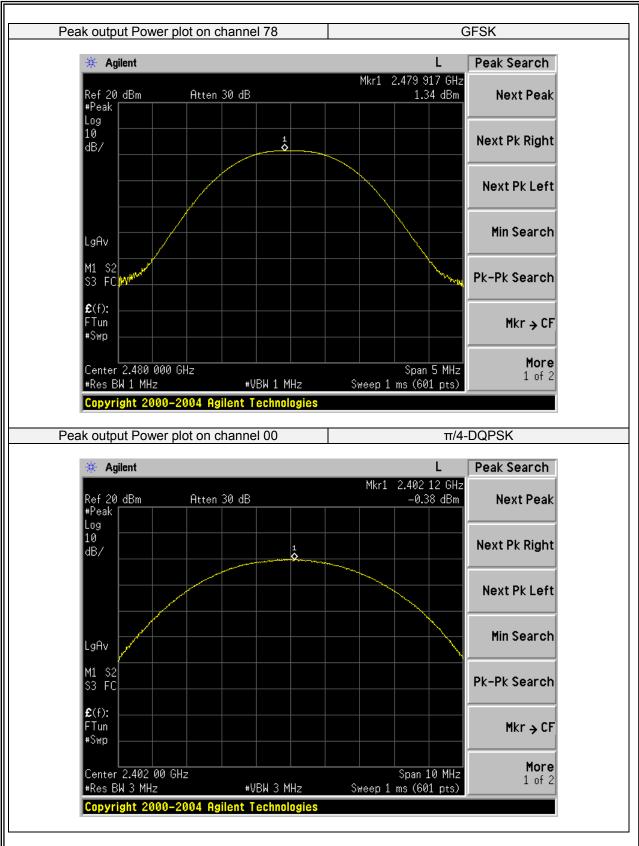
EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict
	1Mbps				
00	2402	Default	-0.28	30	PASS
39	2441	Default	0.73	30	PASS
78	2480	Default	1.34	30	PASS
	2Mbps				
00	2402	Default	-0.38	20.97	PASS
39	2441	Default	0.61	20.97	PASS
78	2480	Default	1.22	20.97	PASS
	3Mbps				
00	2402	Default	-0.32	20.97	PASS
39	2441	Default	0.76	20.97	PASS
78	2480	Default	1.30	20.97	PASS

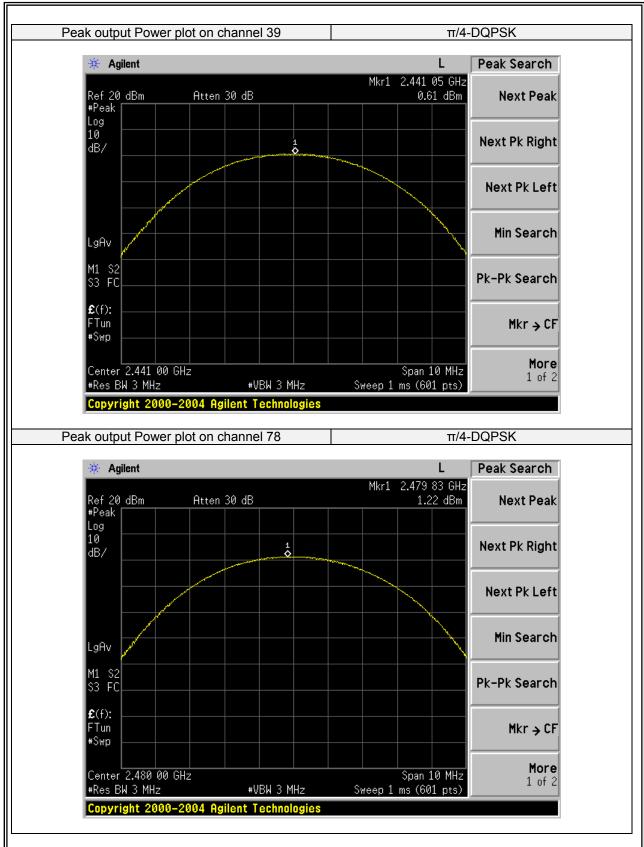




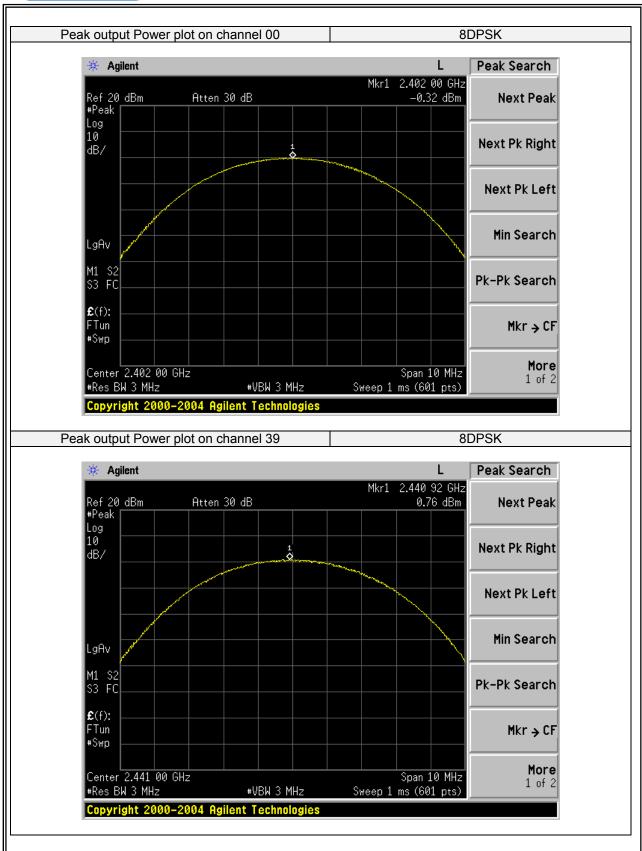




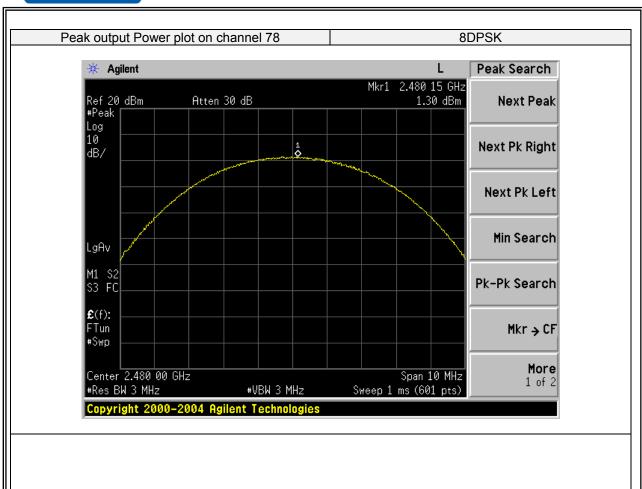














7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and C63.10

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.

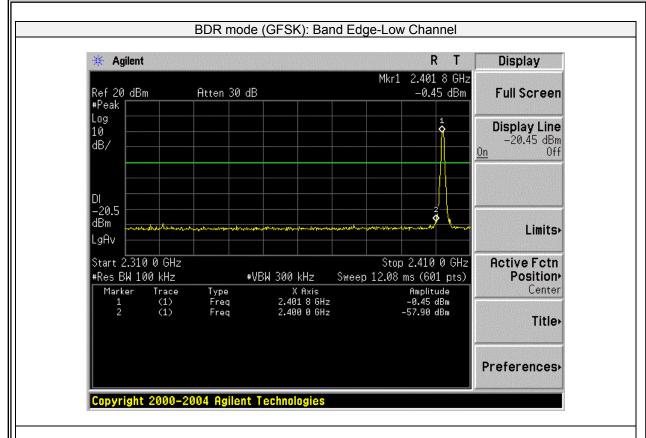


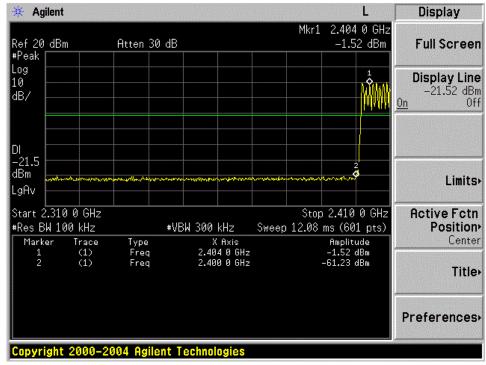
7.8.6 Test Results

EUT:	DuraTunes	Model No.:	ISOUND-6704
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Susan Su

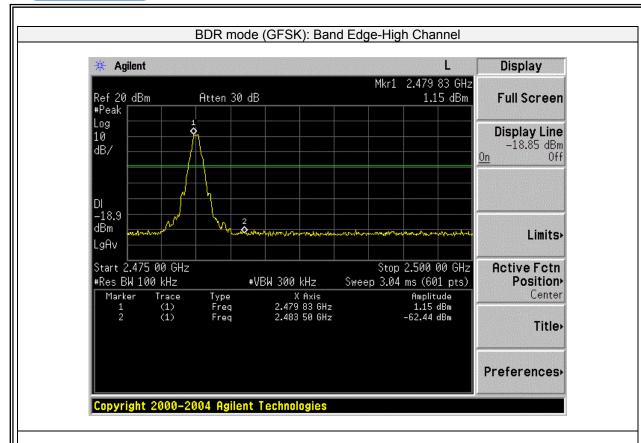
Note: Hopping enabled and disabled have evaluated, and the wortest data was reported

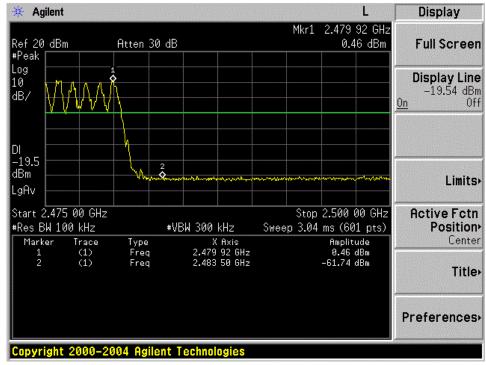




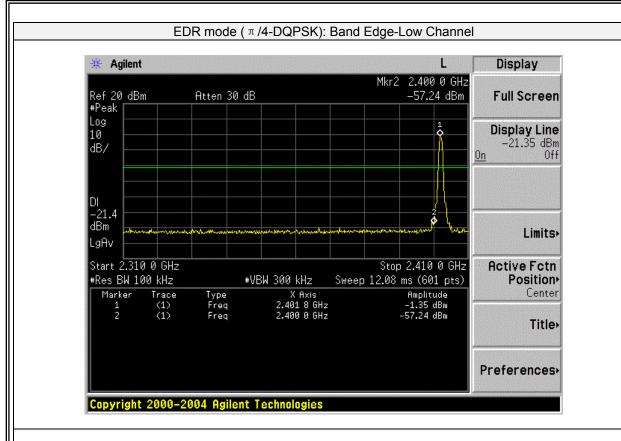


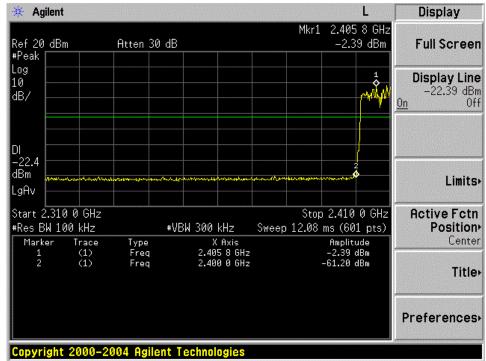




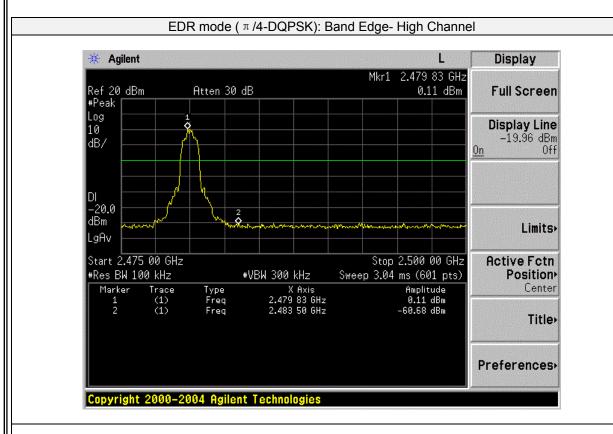


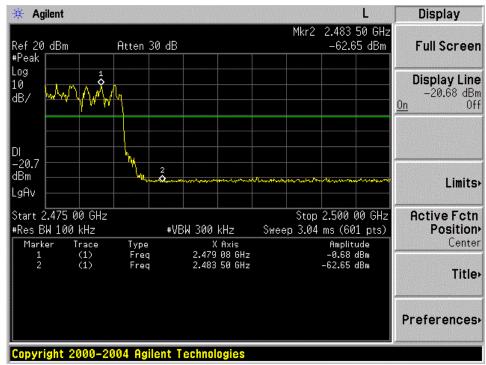




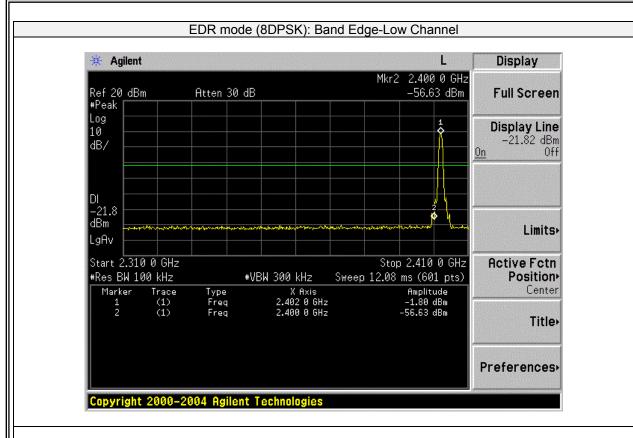


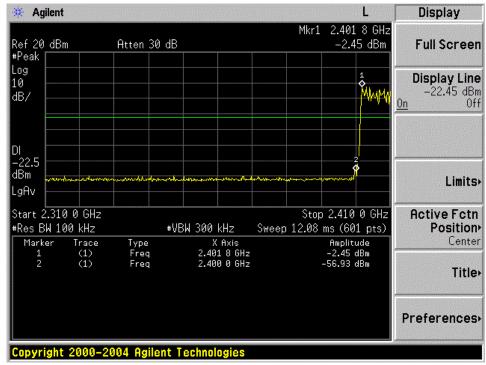




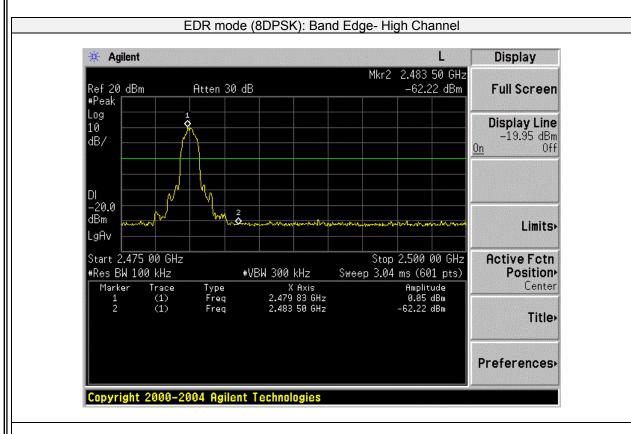


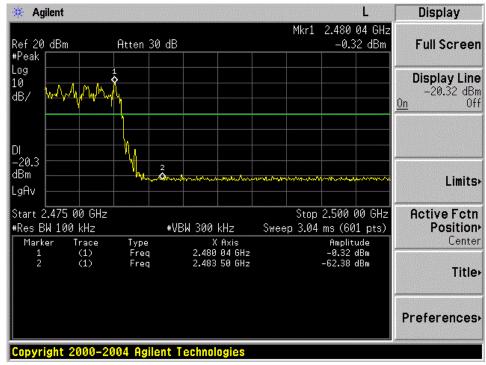














7.9 ANTENNA APPLICATION

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