

The FCC logo, consisting of the letters 'F' and 'C' in a stylized, bold, black font, with the 'C' having a circular cutout in the center.

Test Report

Product Name : Bluetooth Handset
Model No. : BTHS080, BTHS106
FCC ID. : TQ6BTHS080-106

Applicant : Shanghai Flaircomm Inc
Address : No211 North Urumqi Road, Suite 616, Shanghai
200040 P.R. China

Date of Receipt : June 25, 2006
Issued Date : July 22, 2006
Report No. : 066S018-RF-US-P06V01

The Test Results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: June 22, 2006

Report No.: 066S018-RF-US-P06V01



Product Name : Bluetooth Stereo handsets

Applicant : Shanghai Flaircomm Inc

Address : No211 North Urumqi Road, Suite 616, Shanghai 200040 P.R.
China

Manufacturer : Shanghai Flaircomm Inc

Model No. : BTHS080, BTHS106

FCC ID. : TQ6BTHS080-106

Rated Voltage : AC 120V/60Hz

Working Voltage : DC 3.7V

Trade Name : Flaircomm

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2005
ANSI C63.4: 2003
CISPR 22: 2005

Test Result : Complied

The Test Results relate only to the samples tested.

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Documented By :



(M a n d y L i u)

Reviewed By :



(D r e a m C a o)

Approved By :



(G e n e Z h a n g)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Bluetooth Handset
Trade Name	Flaircomm
Model No.	BTHS080, BTHS106
Working Voltage	DC 3.7V
Frequency Range	2400 - 2483.5MHz
Channel Number	79
Antenna Gain	0dBi
Type of Modulation	Frequency Hopping Spread Spectrum
Channel Control	Auto
Antenna type	Printed

Note: BTHS106 is same as BTHS080 except position of external button, model: BTHS080 was selected as representative model for the test and its data were recorded in this report.

Frequency of Each Channel:

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

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. The transmitter is presented with a continuous data stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its 79 channels and over the minimum number of hopping channels (75 channels).

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Note:

1. This device is a Bluetooth Handset including a 2.4GHz transceiver.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the lowest 、 middle and highest frequency of channel were selected to perform the test, then shown on this report.
4. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 066S018-IT-US-P01V02, certified under Declaration of Conformity.
5. QuieTek verified among construction and function in typical operation, then shown in this test report.

1.2. Operational Description

The EUT is a Bluetooth Handset with 79 channels.

This device provides wireless technology that revolutionizes personal connectivity. It is the solution for the seamless integration of Bluetooth technology into personal computer enabling short-range wireless connections between desktop/laptop computers, Bluetooth-enabled peripherals, and portable handheld devices.

Test Mode:	Mode 1: Transmitter
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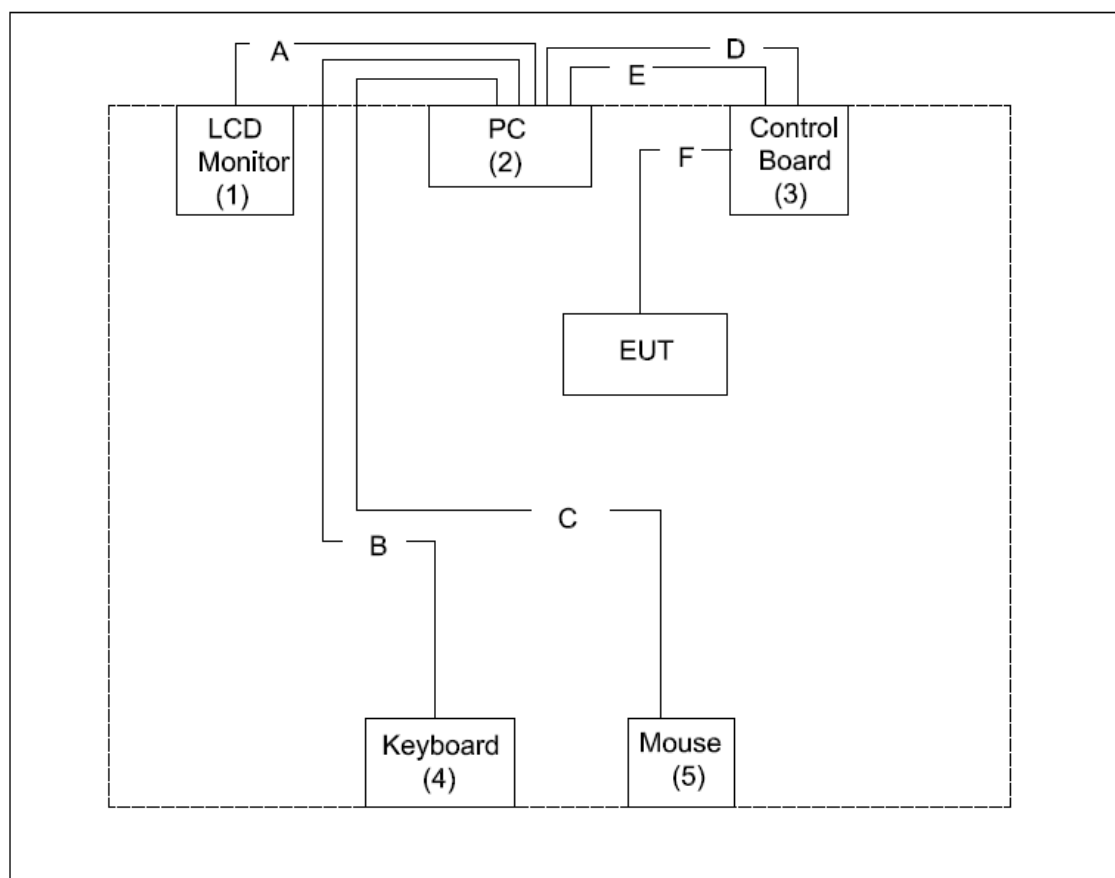
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	LCD Monitor	CHIMEI	A170E1-03	36C112338M41164	Non-Shielded, 1.8m
2	PC	HP	DC7600CMT	CNG5460DC6	Non-Shielded, 1.8m
3	Control board	Flaicomm	N/A	N/A	N/A
4	Keyboard	HP	KB-0316	B94330AUBSD01K	N/A
5	Mouse	HP	M-UW96	F93A90AN3SB1XRT	N/A

1.4. Configuration of Tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A.	VGA Cable	Shielded, 1.5m with two Core bounded
B.	P/S Keyboard Cable	Non-Shielded, 1.5m
C.	USB Mouse Cable	Non-Shielded, 1.5m
D.	RS-232 Control Cable	Non-Shielded, 1.0m
E.	USB Cable#1	Shielded, 1.2m
F.	USB Cable#1	Shielded, 1.2m

1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Connect the EUT to PC via a control board and a RS232 cable.
- (3) Execute the BlueTest program on the PC
- (4) Setup the test channel and the data mode.
- (5) Press OK to start the continuous transmission.
- (6) Verify the EUT operation properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: December 14, 2005 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Site Name: Quietek Corporation

Site Address: No.99 Hongye Rd., Suzhou Industrial Park Loufeng
Hi-Tech Development Zone., SuZhou, China
TEL: +86-512-6251-5088 / FAX : 86-512-6251-5098
E-Mail : service@quietek.com

2. Conducted Emission

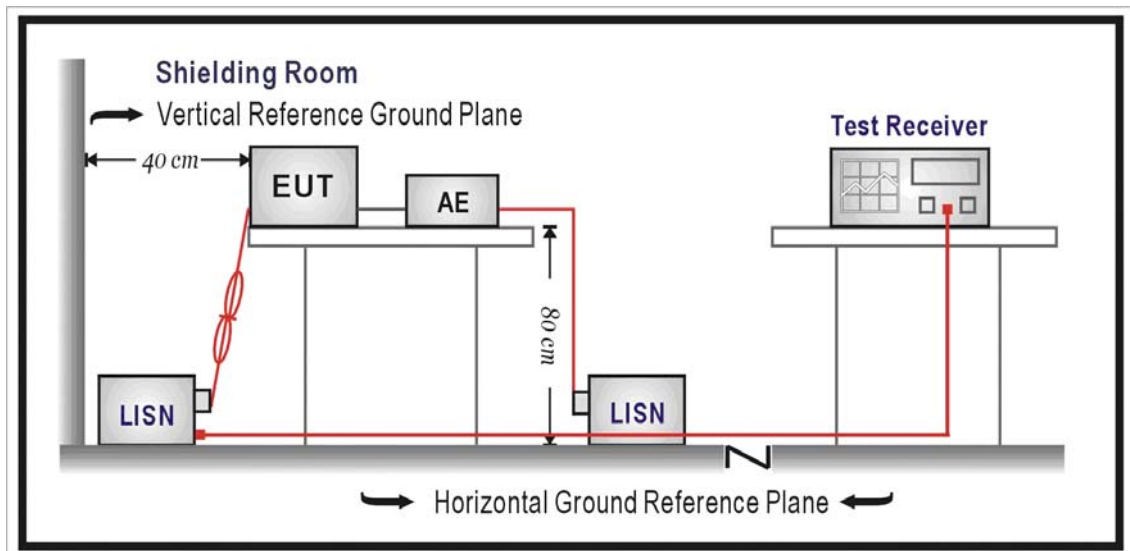
2.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCI	100175	2005/11/25
Two-Line V-Network	R&S	ENV216	100013	2005/11/25
Two-Line V-Network	R&S	ENV216	100014	2005/11/25
V-Network	R&S	ESH3-Z6	100248	2005/11/25
V-Network	R&S	ESH3-Z6	100249	2005/11/25
ISN	Schaffner	ISN T400	21648	2005/11/25
Current Probe	R&S	EZ-17	100252	2006/04/18
50ohm Coaxial Switch	ANRITSU	MP59B	6200447305	2005/11/25
50ohm Impedance	SHX	50ohmI	QT-IM001	2006/03/20
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2006/03/30

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

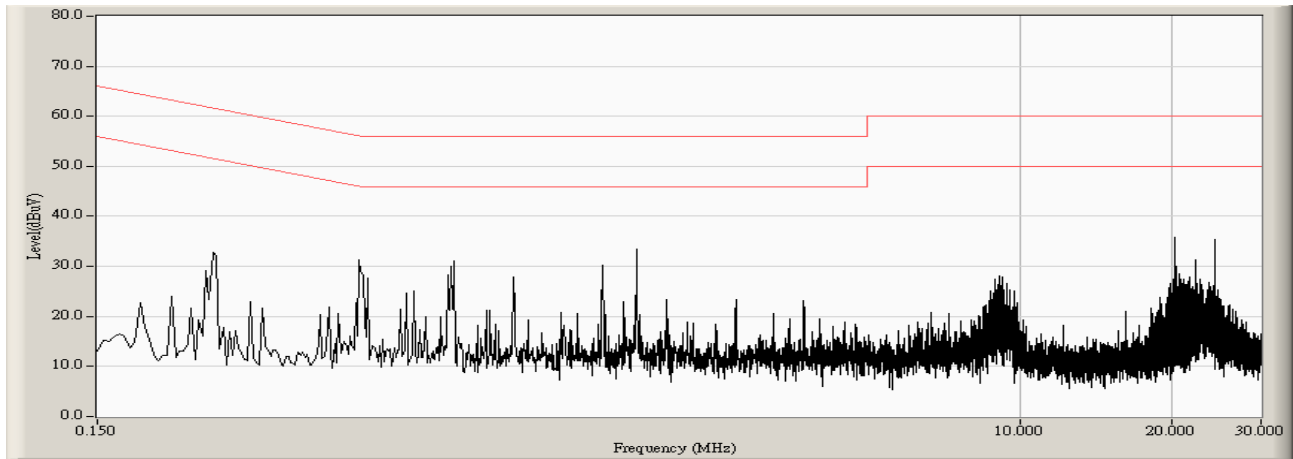
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

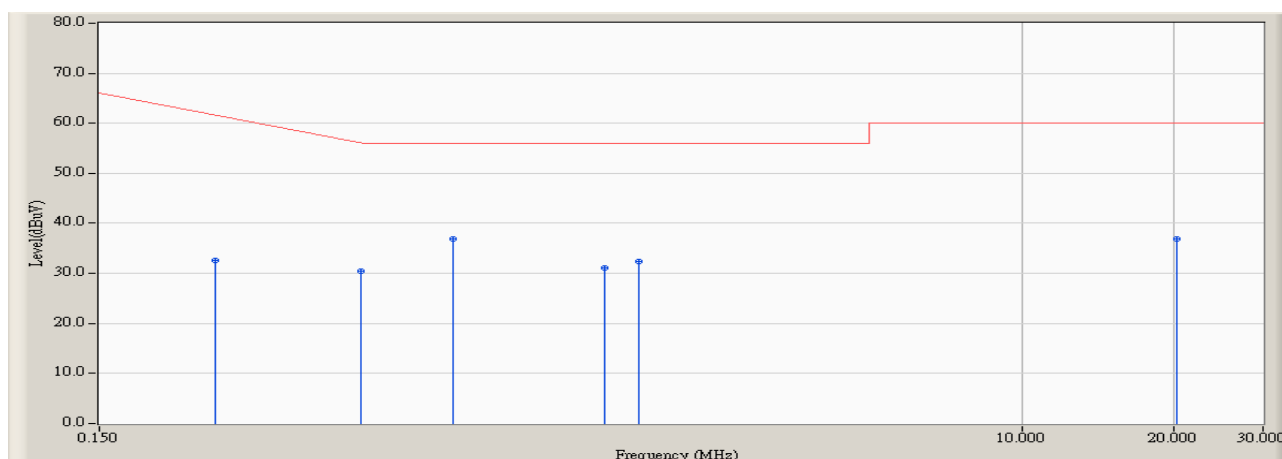
The measurement uncertainty is defined as ± 2.02 dB

2.6. Test Result of Conducted Emission

Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:10
Limit : FCC_Part15_C_00M_QP	Margin : 10
EUT : BTHS080	Probe : ENV216 - Line1
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)



Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:15
Limit : FCC_Part15_C_00M_QP	Margin : 0
EUT : BTHS080	Probe : ENV216 - Line1
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)

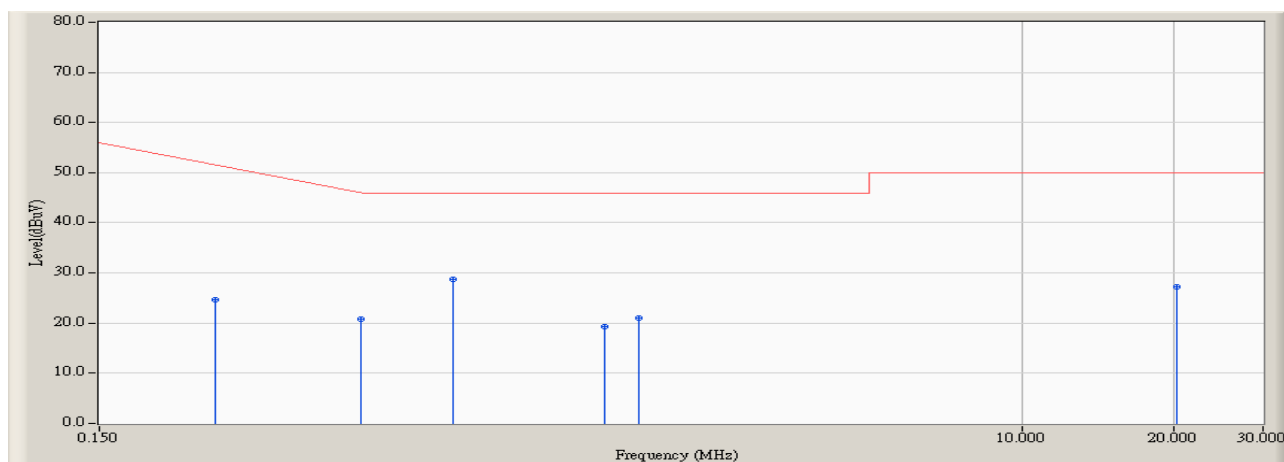


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.254	9.350	23.300	32.650	-30.379	63.029	QUASIPeAK
2		0.494	9.618	20.900	30.519	-25.652	56.171	QUASIPeAK
3	*	0.750	9.683	27.200	36.883	-19.117	56.000	QUASIPeAK
4		1.494	9.725	21.300	31.025	-24.975	56.000	QUASIPeAK
5		1.746	9.780	22.500	32.280	-23.720	56.000	QUASIPeAK
6		20.310	10.190	26.600	36.790	-23.210	60.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:15
Limit : FCC_Part15_C_00M_AV	Margin : 0
EUT : BTHS080	Probe : ENV216 - Line1
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)

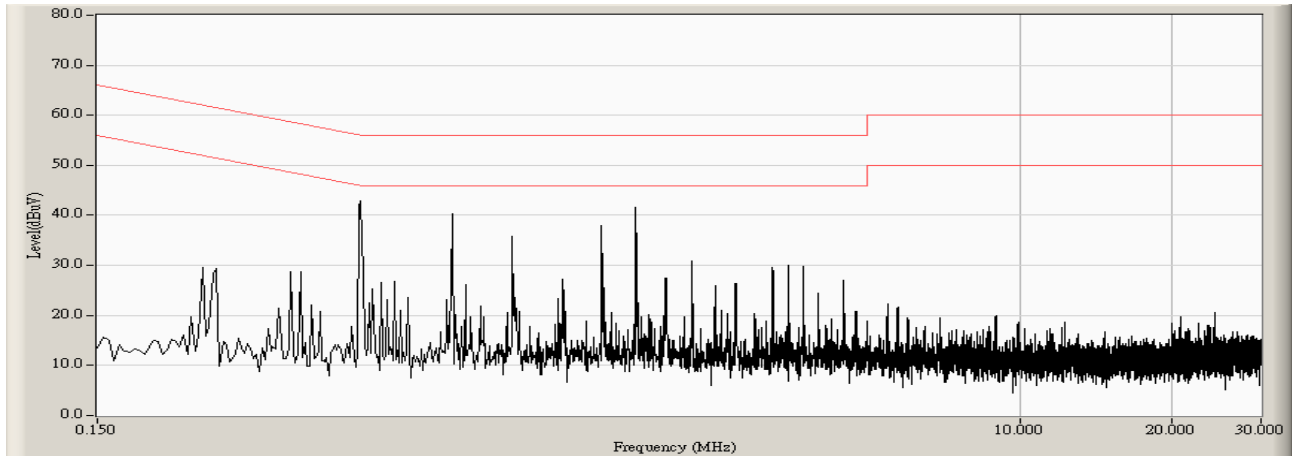


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.254	9.350	15.300	24.650	-28.379	53.029	AVERAGE
2		0.494	9.618	11.200	20.819	-25.352	46.171	AVERAGE
3	*	0.750	9.683	19.000	28.683	-17.317	46.000	AVERAGE
4		1.494	9.725	9.600	19.325	-26.675	46.000	AVERAGE
5		1.746	9.780	11.300	21.080	-24.920	46.000	AVERAGE
6		20.310	10.190	17.100	27.290	-22.710	50.000	AVERAGE

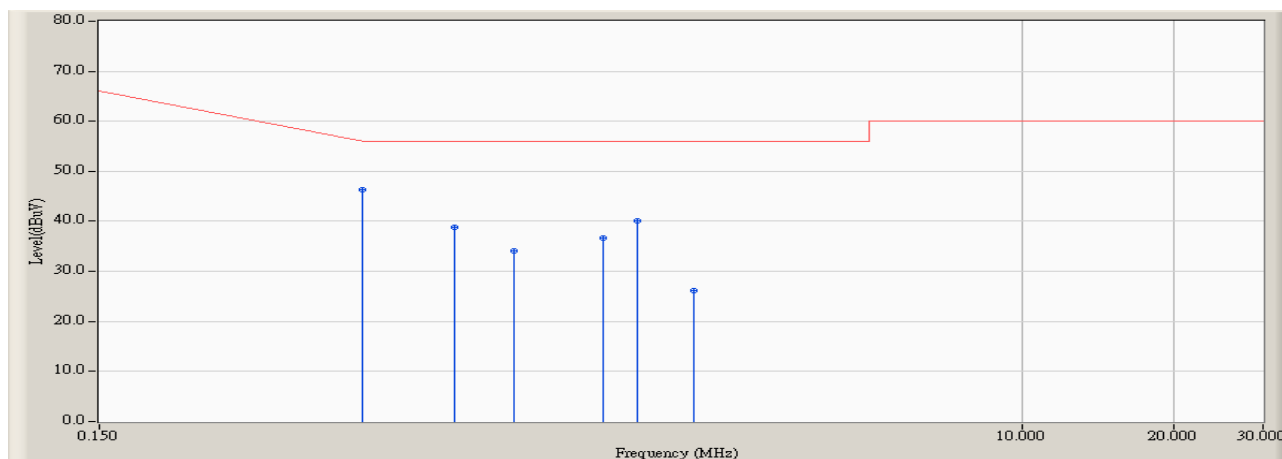
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:16
Limit : FCC_Part15_C_00M_QP	Margin : 10
EUT : BTHS080	Probe : ENV216 - Line2
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)



Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:20
Limit : FCC_Part15_C_00M_QP	Margin : 0
EUT : BTHS080	Probe : ENV216 - Line2
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)

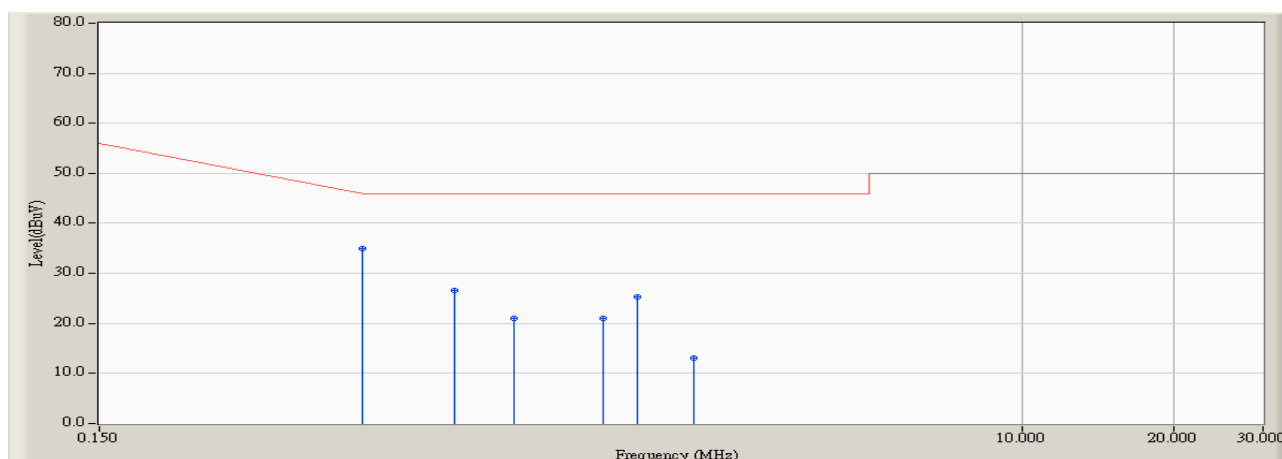


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.498	9.707	36.600	46.307	-9.750	56.057	QUASIPeAK
2		0.754	9.658	29.200	38.858	-17.142	56.000	QUASIPeAK
3		0.994	9.738	24.400	34.138	-21.862	56.000	QUASIPeAK
4		1.490	9.760	26.900	36.660	-19.340	56.000	QUASIPeAK
5		1.742	9.770	30.300	40.070	-15.930	56.000	QUASIPeAK
6		2.254	9.780	16.400	26.180	-29.820	56.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Johnwang	
Site : SR-1	Time : 2006/07/20 - 10:20
Limit : FCC_Part15_C_00M_AV	Margin : 0
EUT : BTHS080	Probe : ENV216 - Line2
Power : AC 120V/60H	Note : Mode 1: Transmitter (2441MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.498	9.707	25.300	35.007	-11.050	46.057	AVERAGE
2		0.754	9.658	16.900	26.558	-19.442	46.000	AVERAGE
3		0.994	9.738	11.300	21.038	-24.962	46.000	AVERAGE
4		1.490	9.760	11.200	20.960	-25.040	46.000	AVERAGE
5		1.742	9.770	15.500	25.270	-20.730	46.000	AVERAGE
6		2.254	9.780	3.300	13.080	-32.920	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

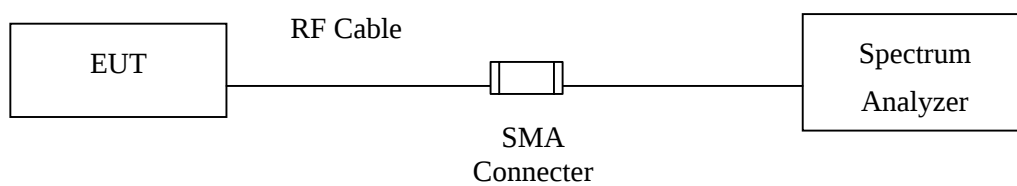
3.1. Test Equipment

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/23

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

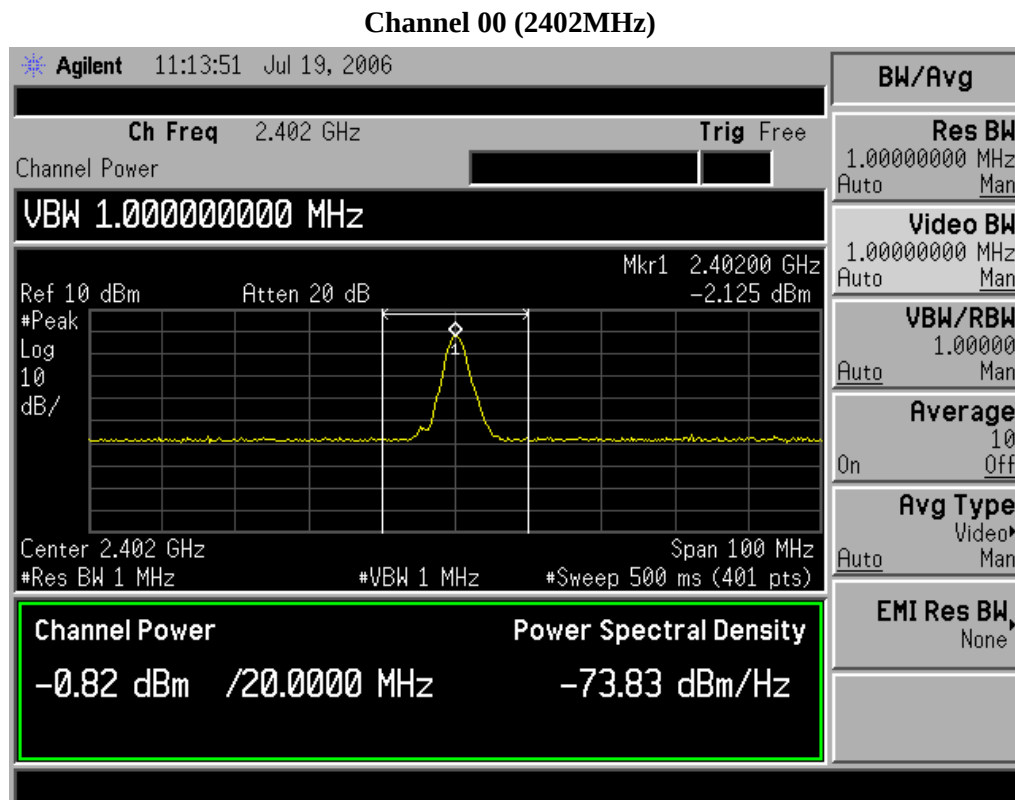
3.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

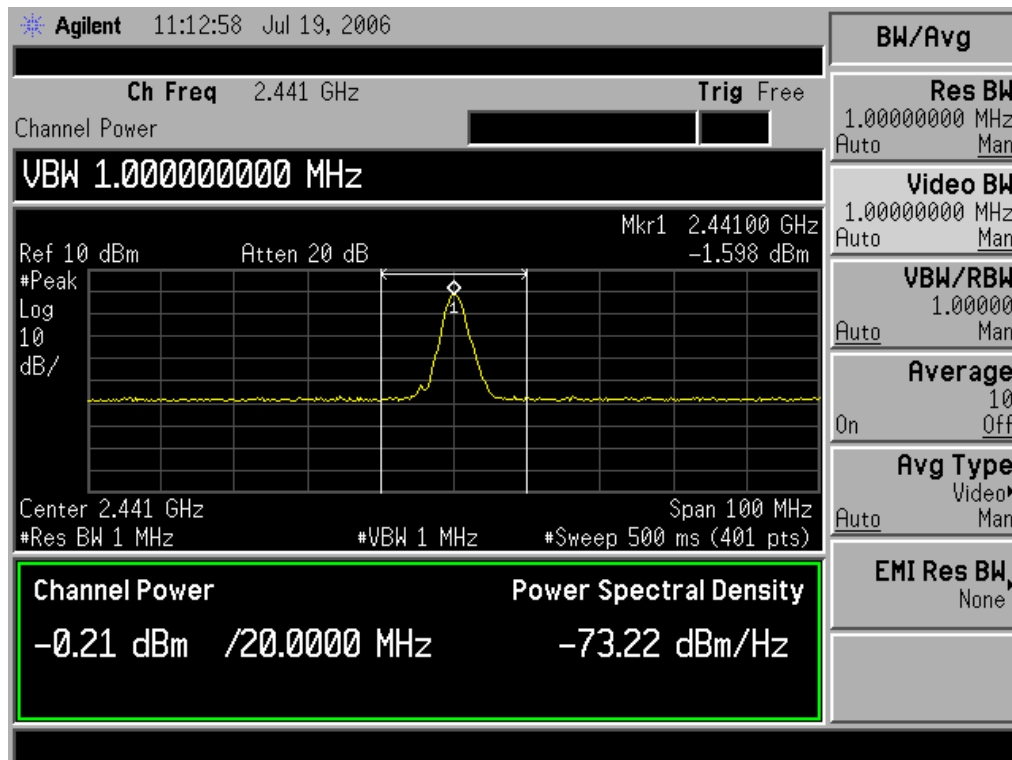
3.5. Test Result of Peak Power Output

Product : Bluetooth Headset (BTHS080)
 Test Item : Peak Power Output
 Test Site : AC-3
 Test Mode : Mode 1: Transmitter

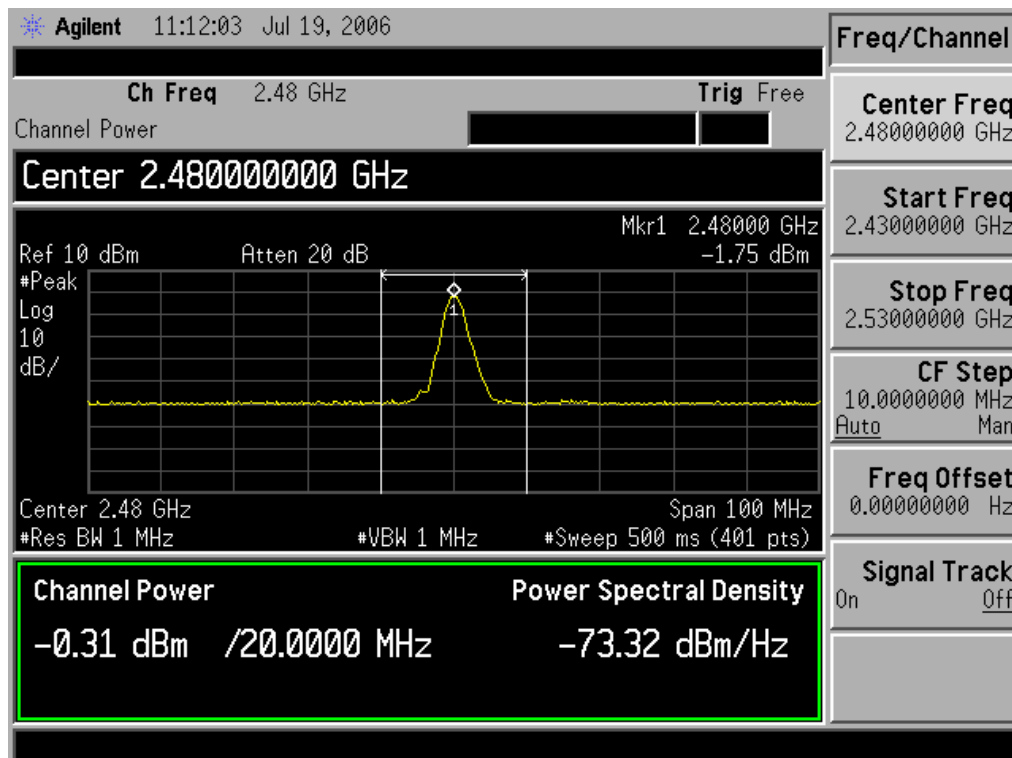
Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit (dBm)	Result
Channel 00	2402.00	-0.82	1 Watt= 30 dBm	Pass
Channel 39	2441.00	-0.21	1 Watt= 30 dBm	Pass
Channel 78	2480.00	-0.31	1 Watt= 30 dBm	Pass



Channel 39 (2441MHz)



Channel 78 (2480MHz)



4. Radiated Emission

4.1. Test Equipment

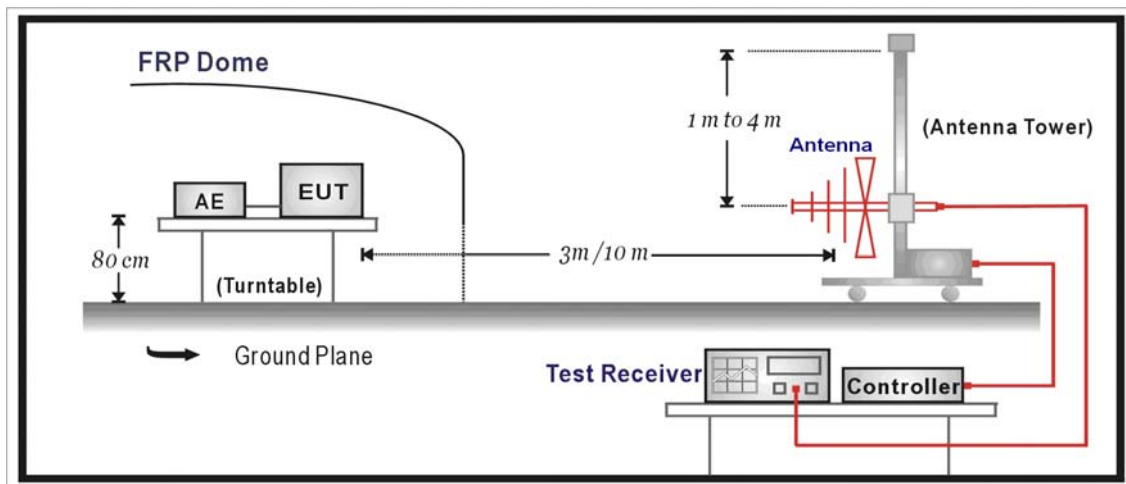
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
EMI Test Receiver	R&S	ESCI	100175	2005/11/25
Preamplifier	Quietek	AP-025C	QT-AP003	2005/11/25
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/03/20
Bilog Type Antenna	Schaffner	CBL6112B	2932	2005/10/26
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2005/09/30
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2006/03/30

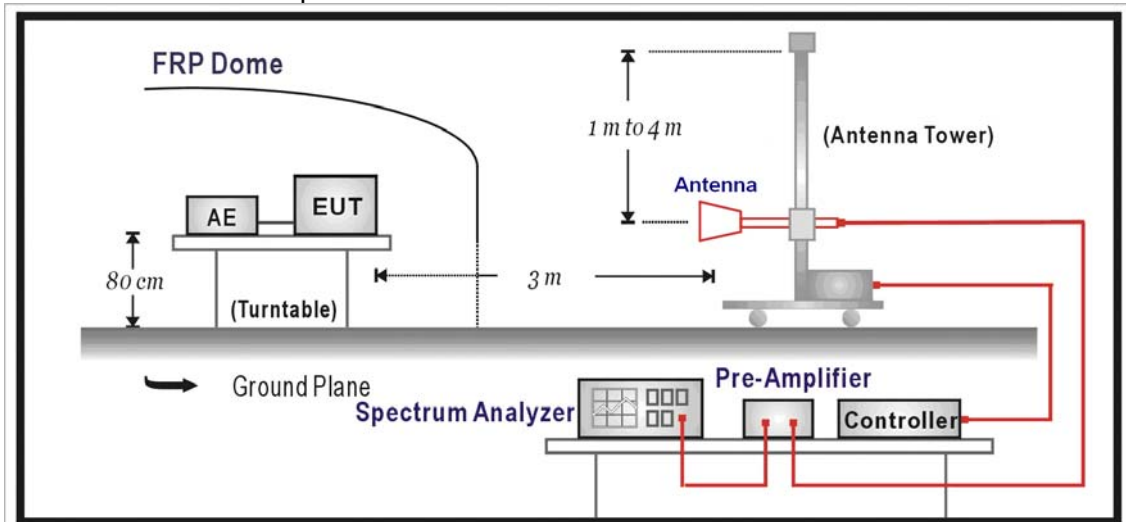
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks:
1. RF Voltage (dBuV) = $20 \log \text{RF Voltage (uV)}$
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

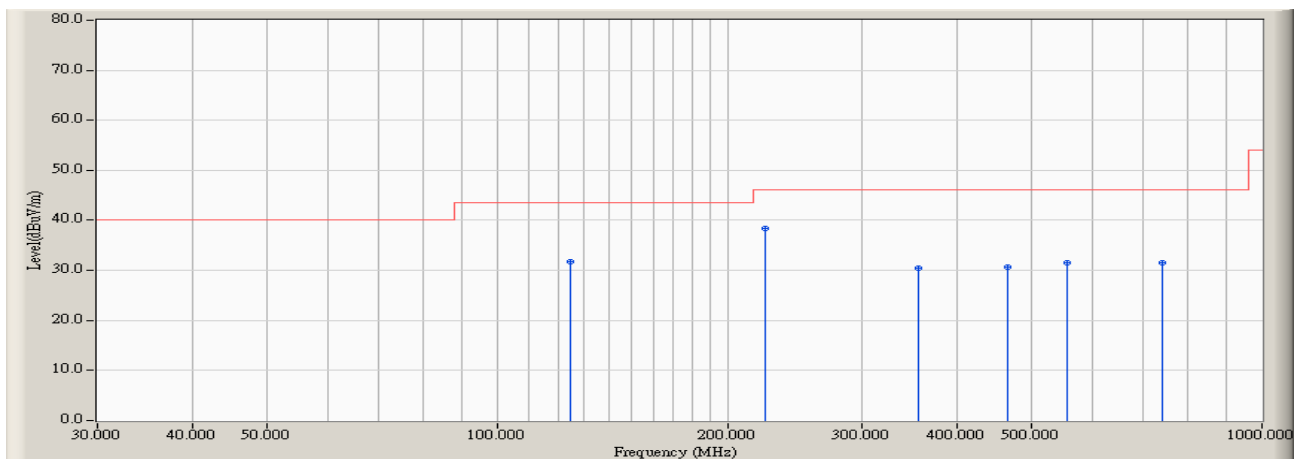
The frequency range from 30MHz to 10th harmonics is checked.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
under 1G is defined as ± 3.8 dB

4.6. Test Result of Radiated Emission

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:07
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

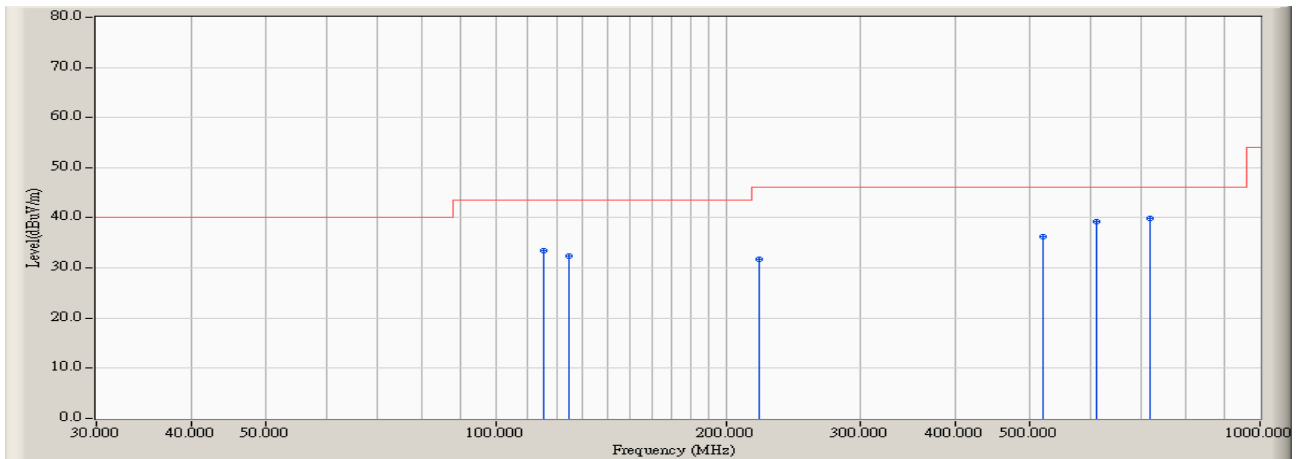


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		124.467	-12.348	43.990	31.642	-11.878	43.520	QUASIPeAK
2	*	224.133	-11.126	49.477	38.351	-7.669	46.020	QUASIPeAK
3		356.000	-8.572	39.132	30.560	-15.460	46.020	QUASIPeAK
4		464.867	-6.668	37.403	30.735	-15.285	46.020	QUASIPeAK
5		555.333	-4.278	35.818	31.541	-14.479	46.020	QUASIPeAK
6		740.867	-0.862	32.326	31.464	-14.556	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:07
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

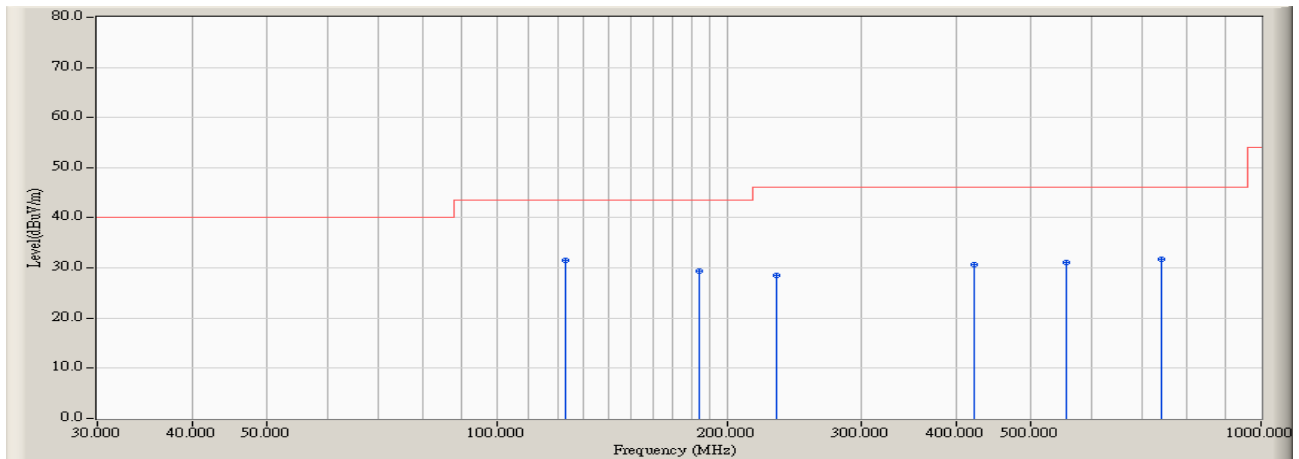


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		115.267	-12.980	46.479	33.499	-10.021	43.520	QUASIPeAK
2		124.467	-12.348	44.822	32.474	-11.046	43.520	QUASIPeAK
3		221.067	-11.413	43.178	31.766	-14.254	46.020	QUASIPeAK
4		520.067	-5.668	42.008	36.340	-9.680	46.020	QUASIPeAK
5		610.533	-3.834	43.121	39.286	-6.734	46.020	QUASIPeAK
6	*	719.400	-1.596	41.539	39.943	-6.077	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:08
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

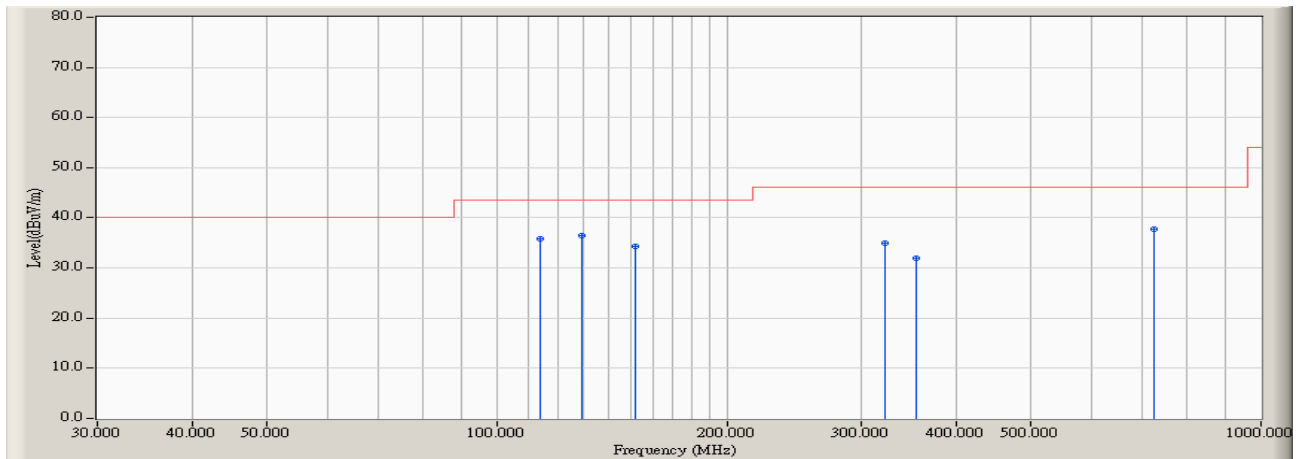


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	122.933	-12.487	44.078	31.591	-11.929	43.520	QUASIPeAK
2		184.267	-14.142	43.523	29.380	-14.140	43.520	QUASIPeAK
3		231.800	-11.976	40.439	28.464	-17.556	46.020	QUASIPeAK
4		420.400	-7.130	37.855	30.724	-15.296	46.020	QUASIPeAK
5		555.333	-4.278	35.424	31.147	-14.873	46.020	QUASIPeAK
6		740.867	-0.862	32.631	31.769	-14.251	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:08
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

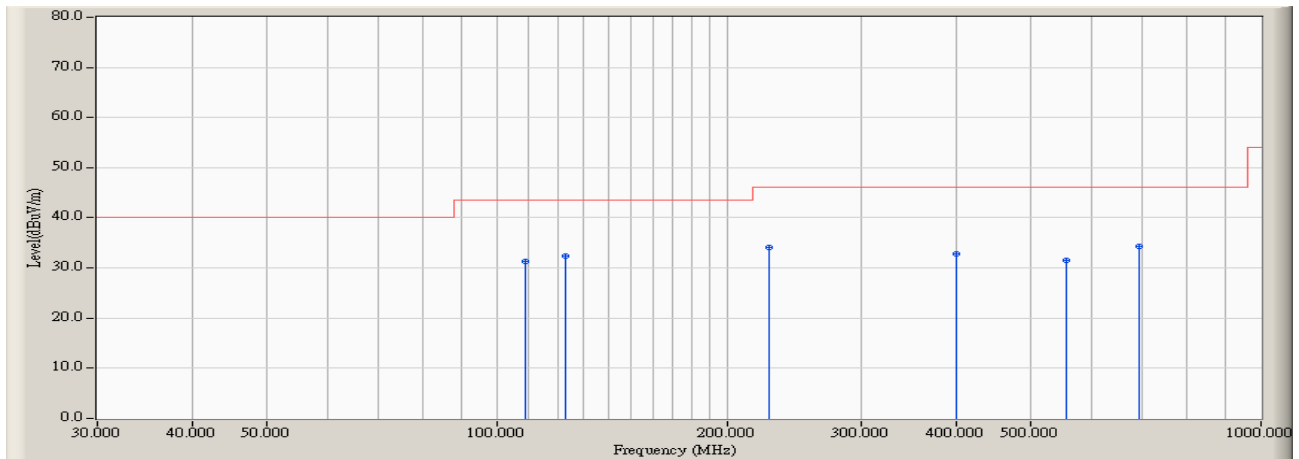


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		113.733	-13.057	48.782	35.726	-7.794	43.520	QUASIPeAK
2	*	129.067	-12.132	48.638	36.507	-7.013	43.520	QUASIPeAK
3		152.067	-12.111	46.431	34.321	-9.199	43.520	QUASIPeAK
4		322.267	-9.458	44.394	34.936	-11.084	46.020	QUASIPeAK
5		354.467	-8.663	40.682	32.019	-14.001	46.020	QUASIPeAK
6		725.533	-1.296	38.974	37.677	-8.343	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:08
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)

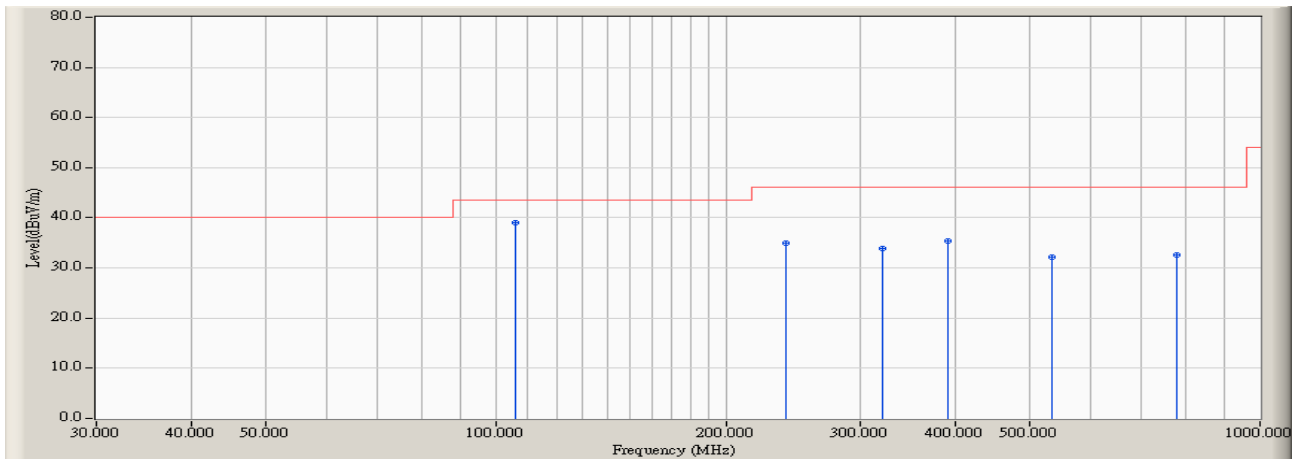


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		109.133	-13.386	44.629	31.243	-12.277	43.520	QUASIPeAK
2	*	122.933	-12.487	44.814	32.327	-11.193	43.520	QUASIPeAK
3		227.200	-11.403	45.512	34.109	-11.911	46.020	QUASIPeAK
4		398.933	-7.438	40.237	32.799	-13.221	46.020	QUASIPeAK
5		555.333	-4.278	35.822	31.545	-14.475	46.020	QUASIPeAK
6		693.333	-2.201	36.531	34.331	-11.689	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 16:08
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : BTHS080	Probe : CBL6141A_4278(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)

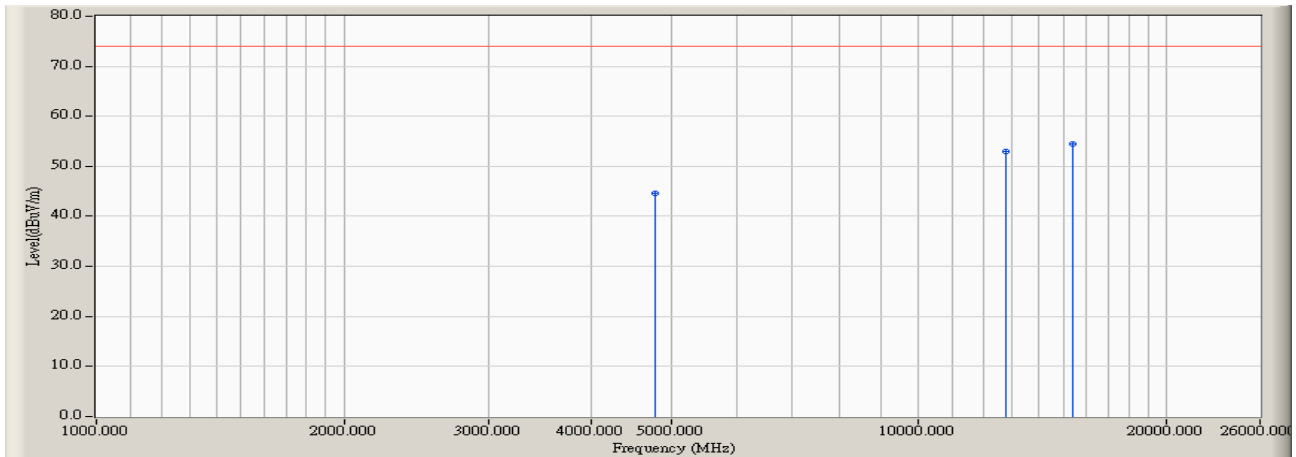


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.067	-13.666	52.595	38.929	-4.591	43.520	QUASIPeAK
2		239.467	-11.864	46.750	34.886	-11.134	46.020	QUASIPeAK
3		320.733	-9.521	43.326	33.805	-12.215	46.020	QUASIPeAK
4		391.267	-7.638	43.027	35.389	-10.631	46.020	QUASIPeAK
5		533.867	-5.579	37.731	32.152	-13.868	46.020	QUASIPeAK
6		777.667	-0.719	33.342	32.623	-13.397	46.020	QUASIPeAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/13 - 17:13
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

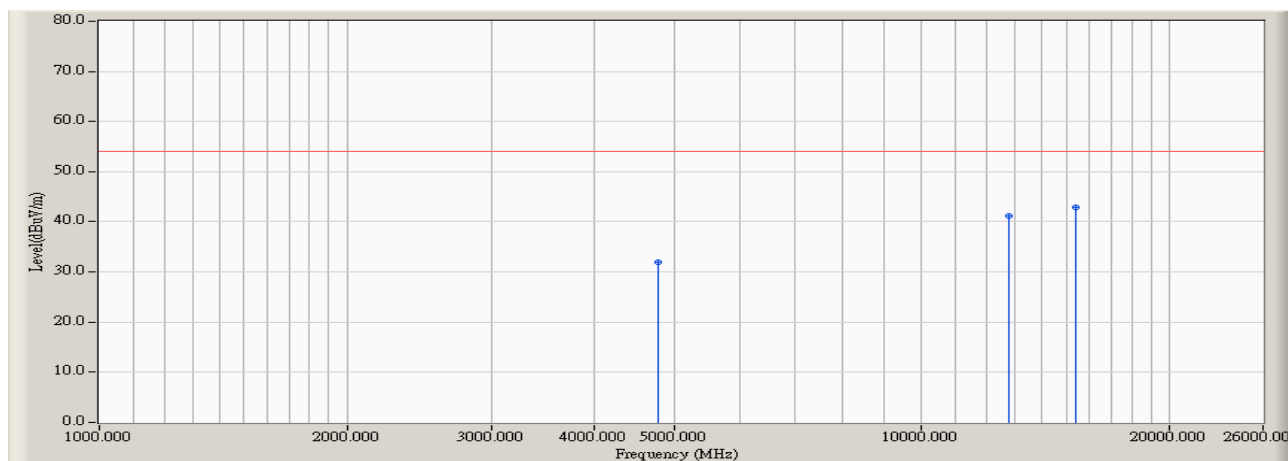


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4790.000	2.277	42.280	44.557	-29.413	73.970	PEAK
2		12750.000	16.380	36.670	53.049	-20.921	73.970	PEAK
3	*	15420.000	18.861	35.540	54.401	-19.569	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/13 - 17:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

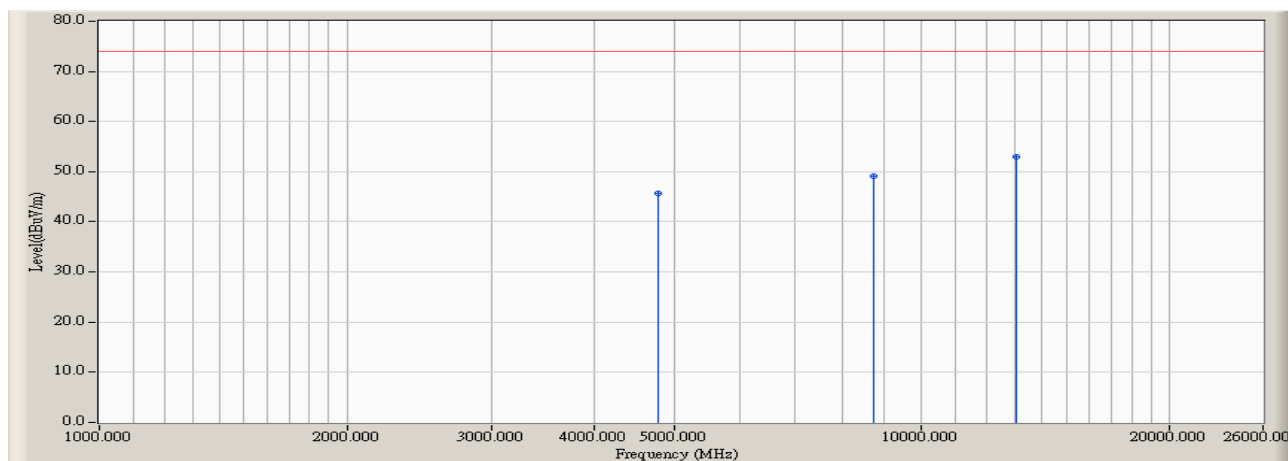


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4790.000	2.277	29.690	31.967	-22.003	53.970	AVERAGE
2		12750.000	16.380	24.740	41.119	-12.851	53.970	AVERAGE
3	*	15420.000	18.861	24.050	42.911	-11.059	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/13 - 17:20
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

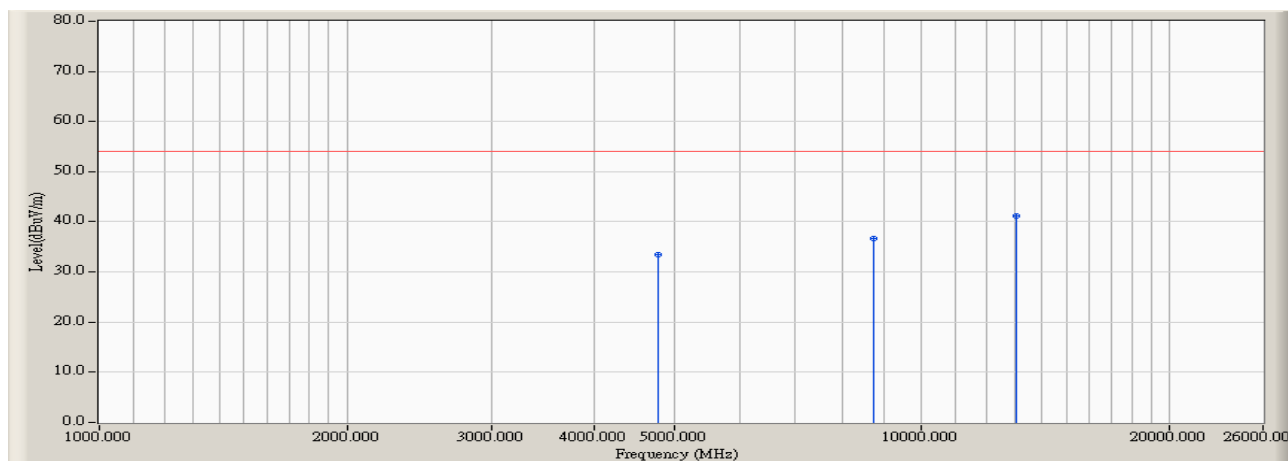


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4790.000	2.277	43.390	45.667	-28.303	73.970	PEAK
2		8750.000	11.948	37.150	49.098	-24.872	73.970	PEAK
3	*	13040.000	17.404	35.490	52.894	-21.076	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/13 - 17:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2402MHz)

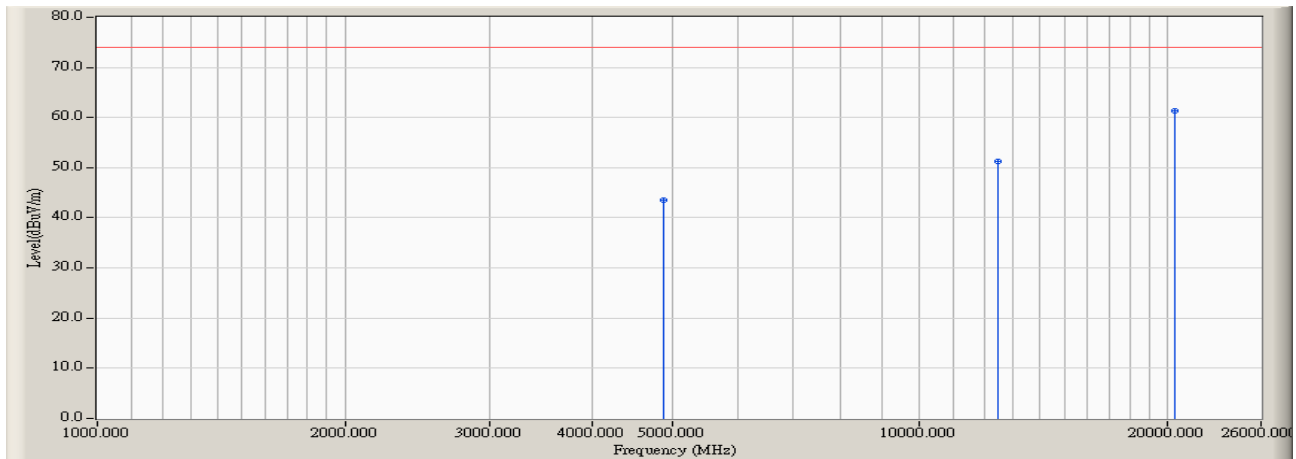


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4790.000	2.277	31.130	33.407	-20.563	53.970	AVERAGE
2		8750.000	11.948	24.680	36.628	-17.342	53.970	AVERAGE
3	*	13040.000	17.404	23.880	41.284	-12.686	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 13:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

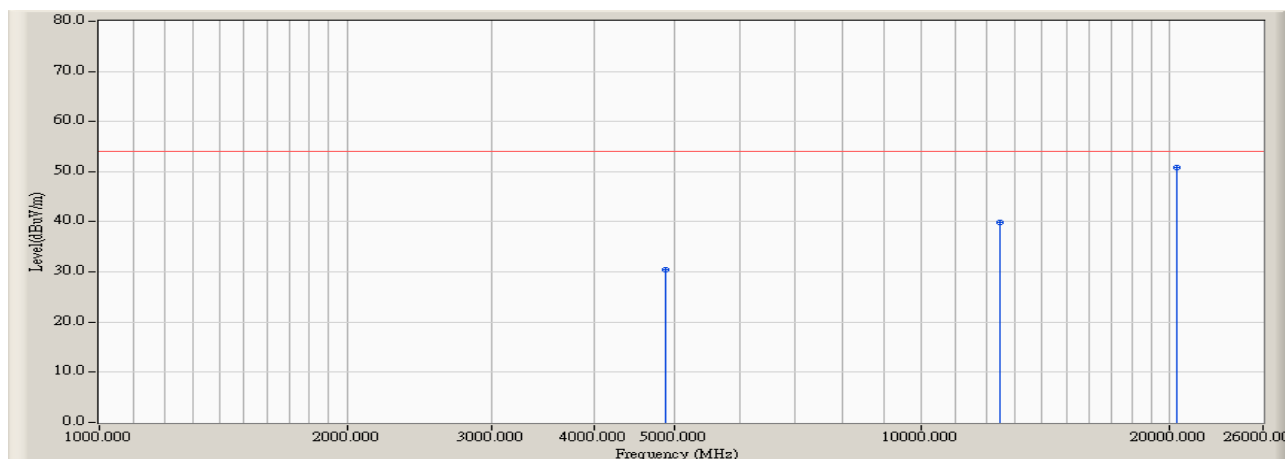


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	2.460	41.160	43.619	-30.351	73.970	PEAK
2		12460.000	15.384	35.800	51.184	-22.786	73.970	PEAK
3	*	20460.000	29.080	32.240	61.320	-12.650	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 13:53
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

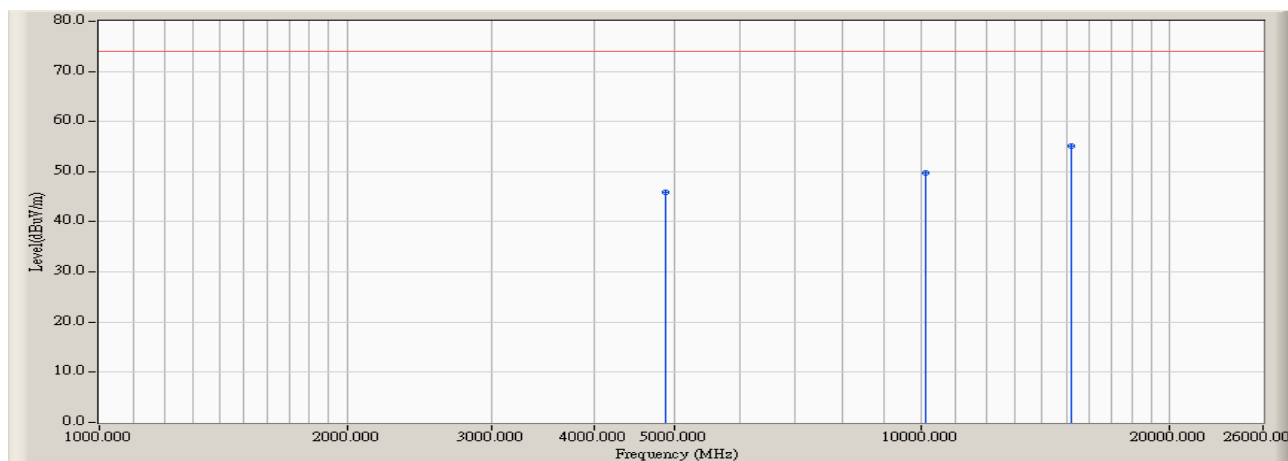


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	2.460	27.960	30.419	-23.551	53.970	AVERAGE
2		12460.000	15.384	24.520	39.904	-14.066	53.970	AVERAGE
3	*	20460.000	29.080	21.840	50.920	-3.050	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 13:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

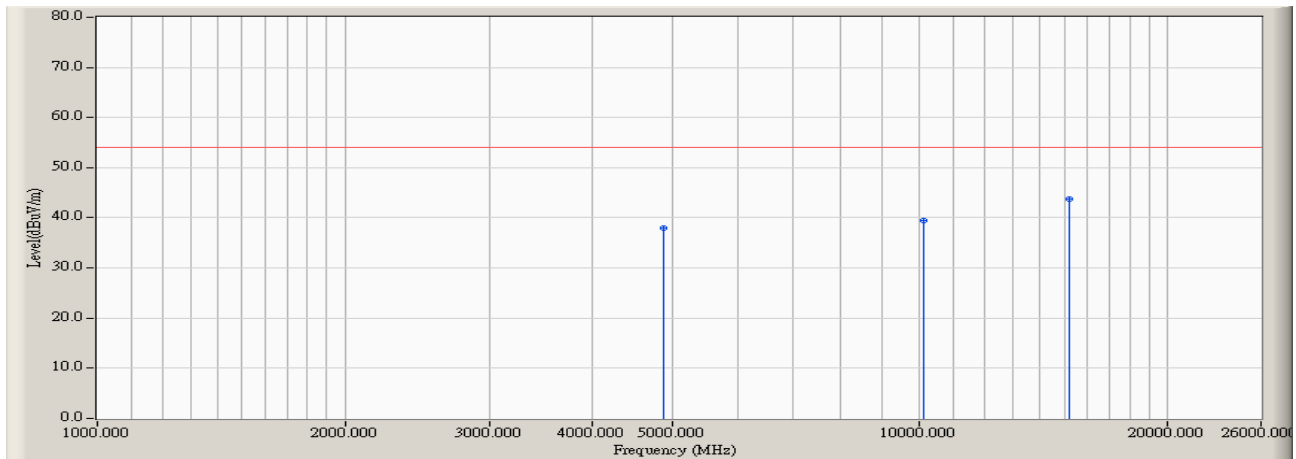


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	2.460	43.400	45.859	-28.111	73.970	PEAK
2		10120.000	14.779	35.080	49.859	-24.111	73.970	PEAK
3	*	15170.000	19.988	35.130	55.118	-18.852	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 13:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2441MHz)

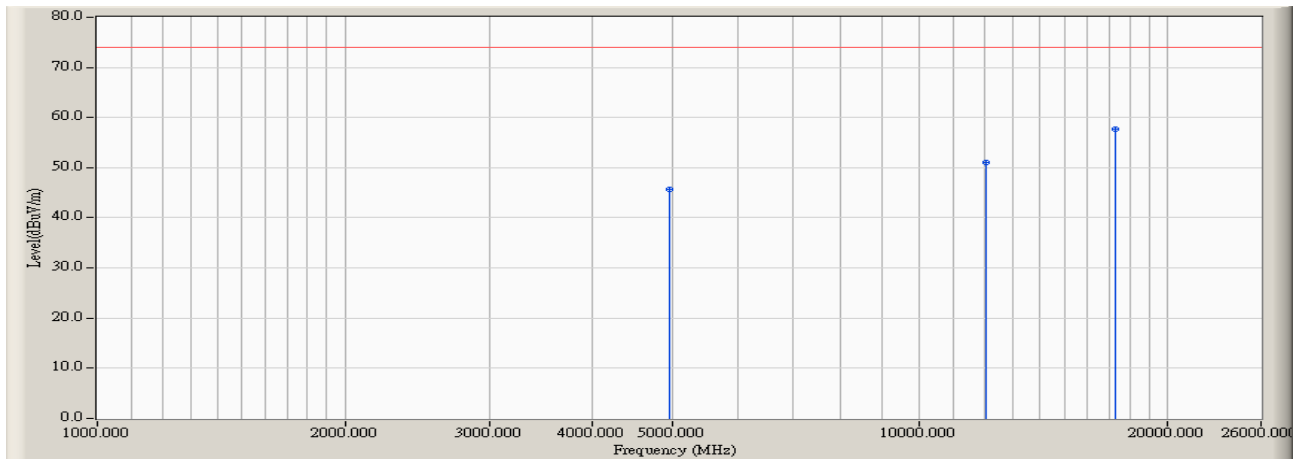


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	2.460	35.580	38.039	-15.931	53.970	AVERAGE
2		10120.000	14.779	24.700	39.479	-14.491	53.970	AVERAGE
3	*	15170.000	19.988	23.740	43.728	-10.242	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 14:16
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)

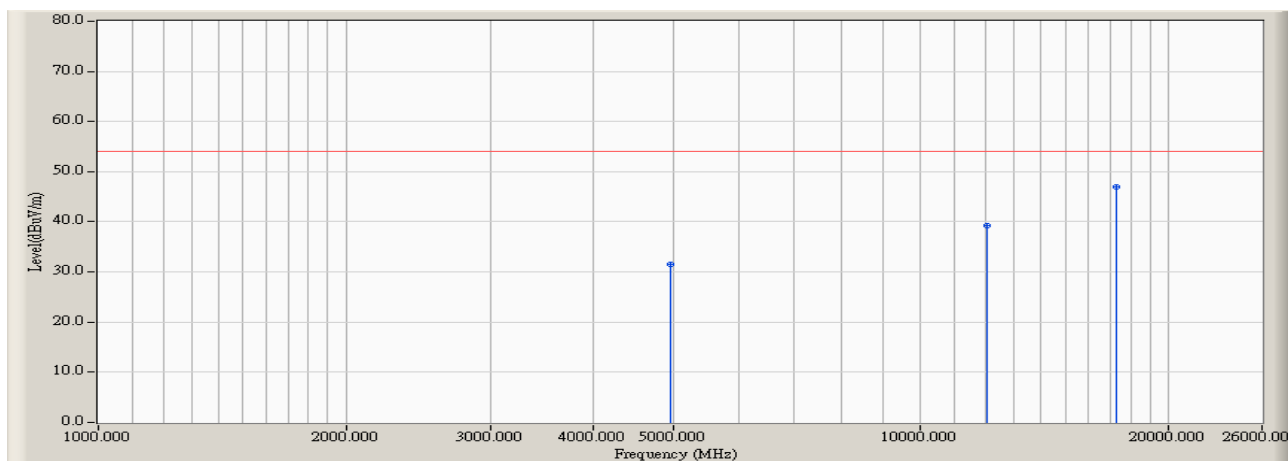


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	2.628	43.080	45.708	-28.262	73.970	PEAK
2		12040.000	14.622	36.370	50.992	-22.978	73.970	PEAK
3	*	17290.000	24.439	33.180	57.619	-16.351	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 14:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)

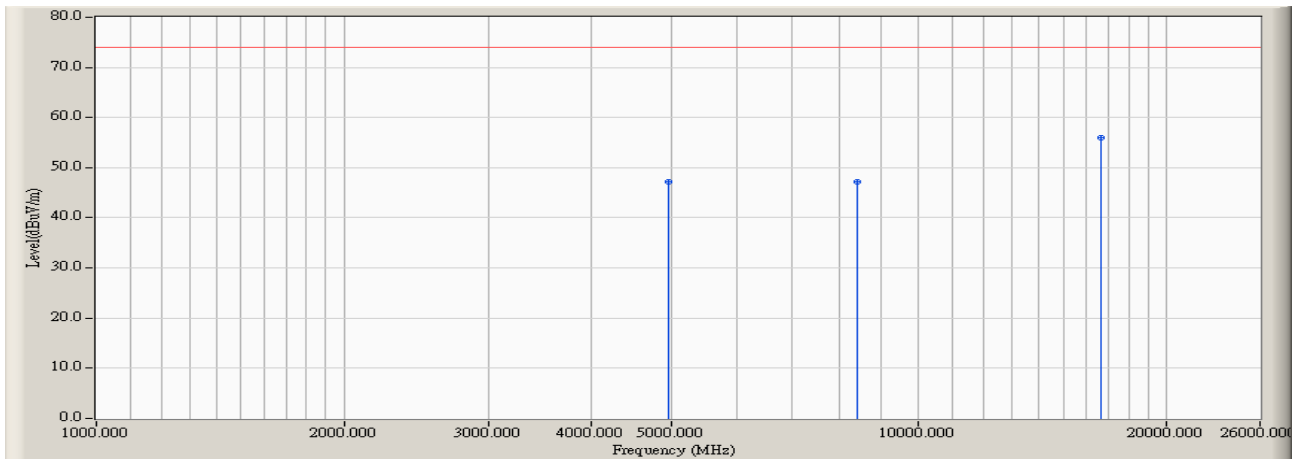


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	2.628	28.880	31.508	-22.462	53.970	AVERAGE
2		12040.000	14.622	24.570	39.192	-14.778	53.970	AVERAGE
3	*	17290.000	24.439	22.480	46.919	-7.051	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 14:16
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)

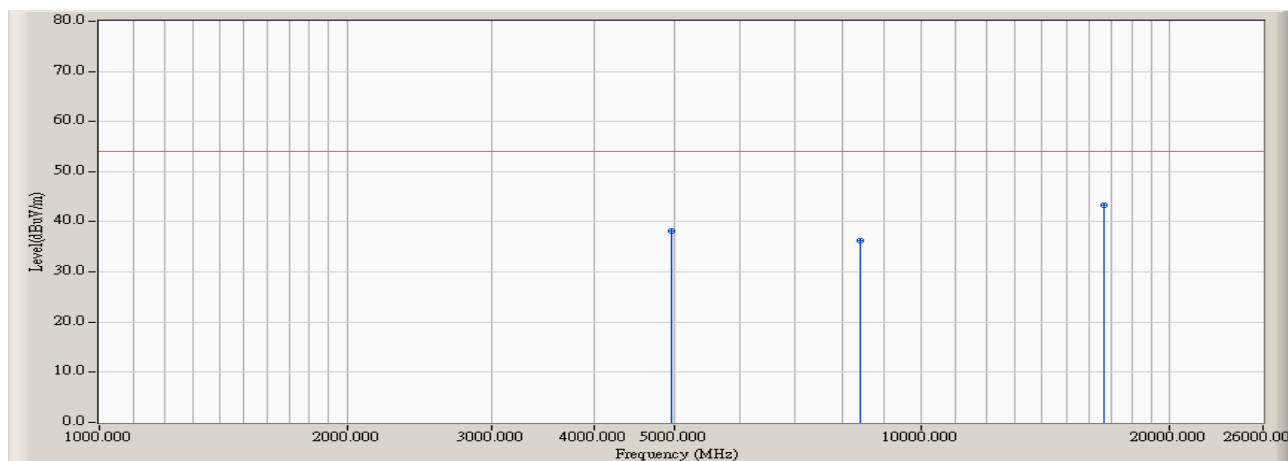


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	2.628	44.490	47.118	-26.852	73.970	PEAK
2		8420.000	11.224	36.030	47.254	-26.716	73.970	PEAK
3	*	16670.000	21.697	34.350	56.046	-17.924	73.970	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : John	
Site : AC-2	Time : 2006/07/19 - 14:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : BTHS080	Probe : 9120D_(1G-18G) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmitter (2480MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	2.628	35.610	38.238	-15.732	53.970	AVERAGE
2		8420.000	11.224	25.070	36.294	-17.676	53.970	AVERAGE
3	*	16670.000	21.697	21.600	43.296	-10.674	53.970	AVERAGE

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

5. Band Edge

5.1. Test Equipment

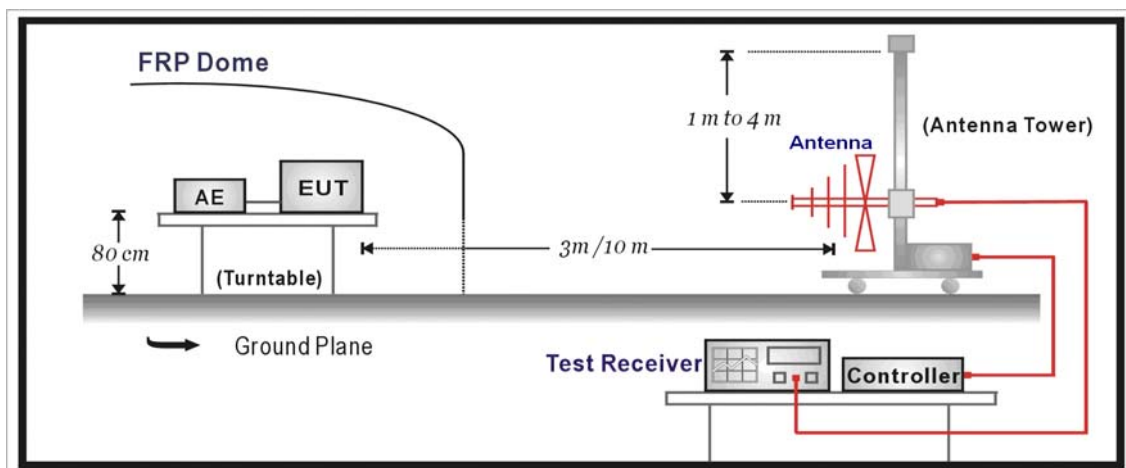
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11
EMI Test Receiver	R&S	ESCI	100175	2005/11/25
Preamplifier	Quietek	AP-025C	QT-AP003	2005/11/25
Preamplifier	Quietek	AP-180C	CHM-0602013	2006/03/20
Bilog Type Antenna	Schaffner	CBL6112B	2932	2005/10/26
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2005/09/30
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2006/03/30

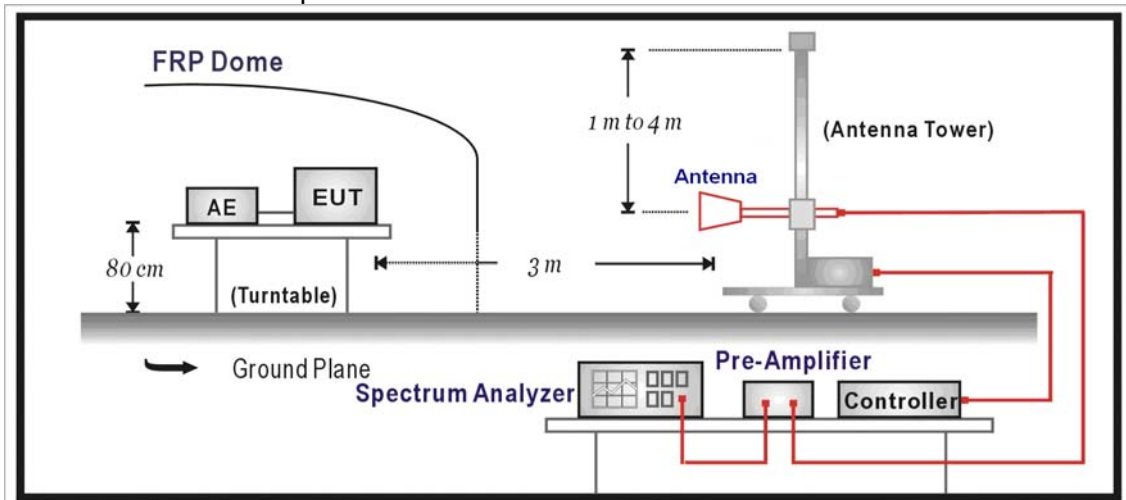
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

5.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
under 1G is defined as ± 3.8 dB

5.6. Test Result of Band Edge

Product : Bluetooth Handset (BTHS080)
 Test Item : Band Edge
 Test Site : AC-2
 Test Mode : Mode 1: Transmitter (2402MHz)

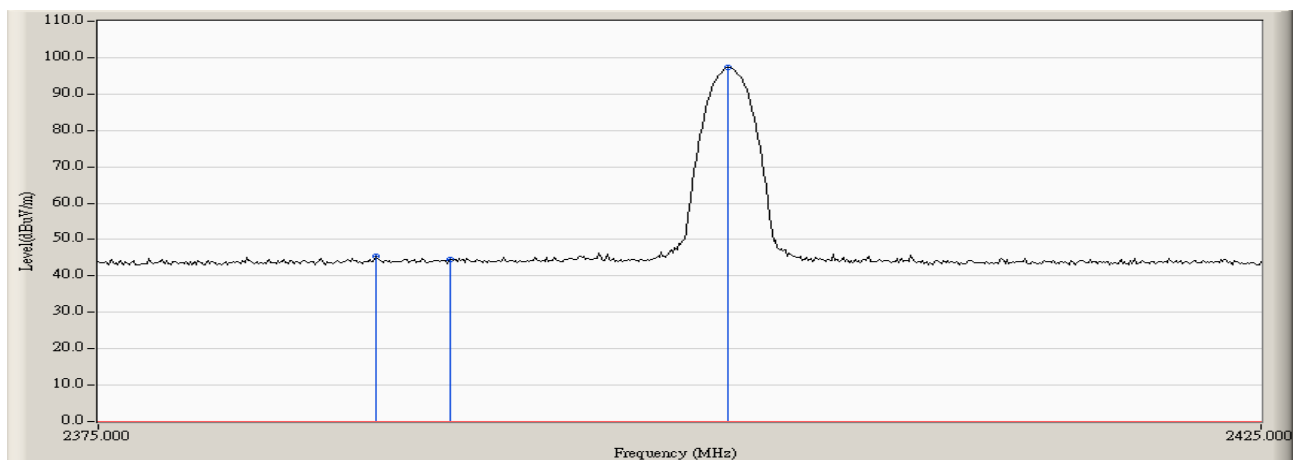
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2386.833	48.982	45.275	74.00	54.00	Pass
00 (Average)	--	--	--	74.00	54.00	Pass

Figure Channel 00: (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Bluetooth Handset (BTHS080)
 Test Item : Band Edge
 Test Site : AC-2
 Test Mode : Mode 1: Transmitter (2402MHz)

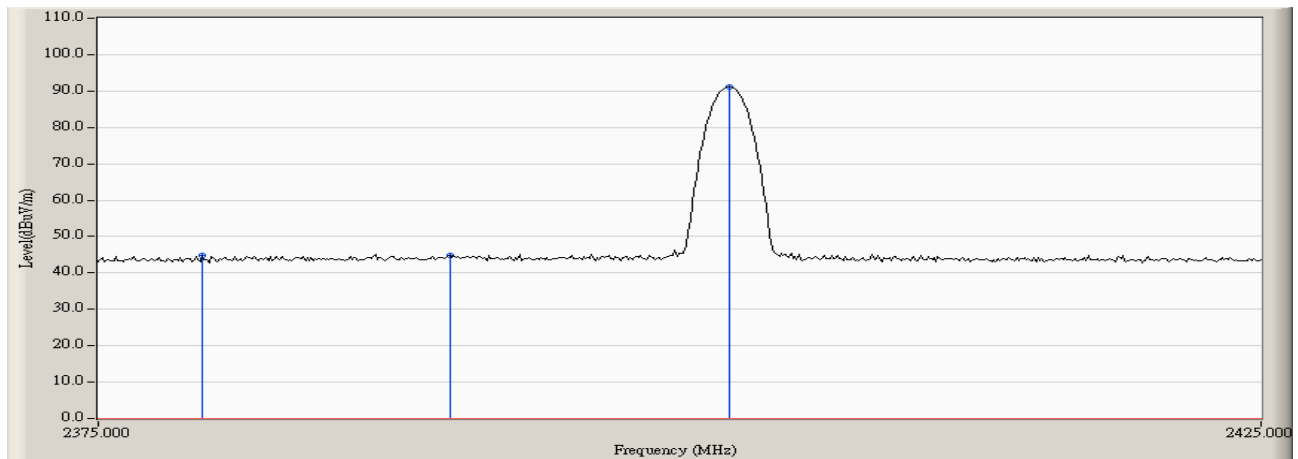
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2379.417	48.459	44.765	74.00	54.00	Pass
00(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 00: (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Bluetooth Handset (BTHS080)
 Test Item : Band Edge
 Test Site : AC-2
 Test Mode : Mode 1: Transmitter (2480MHz)

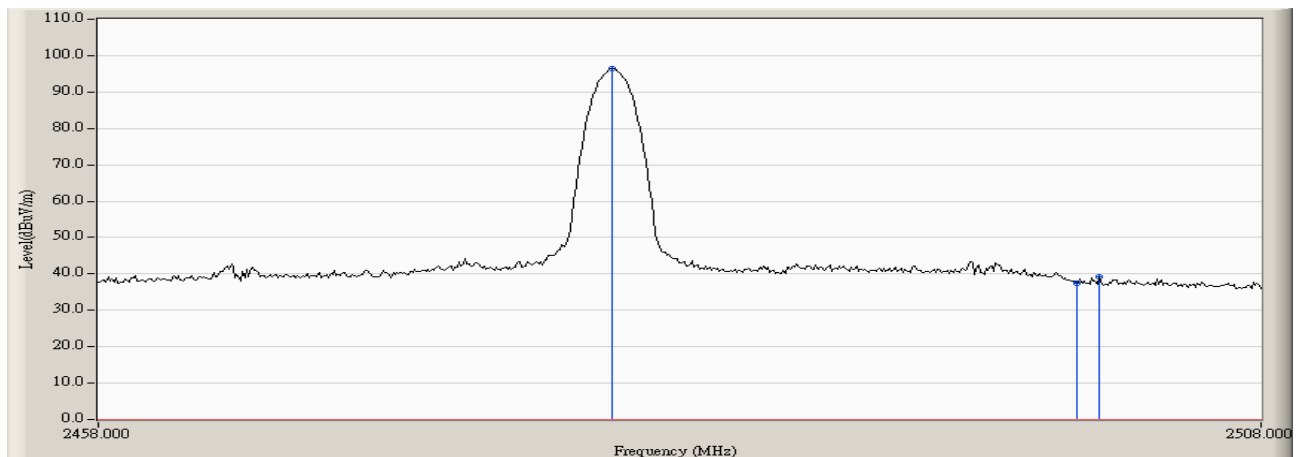
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2500.000	41.108	37.395	74.00	54.00	Pass
78(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 78: (Horizontal)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Bluetooth Handset (BTHS080)
 Test Item : Band Edge
 Test Site : AC-2
 Test Mode : Mode 1: Transmitter (2480MHz)

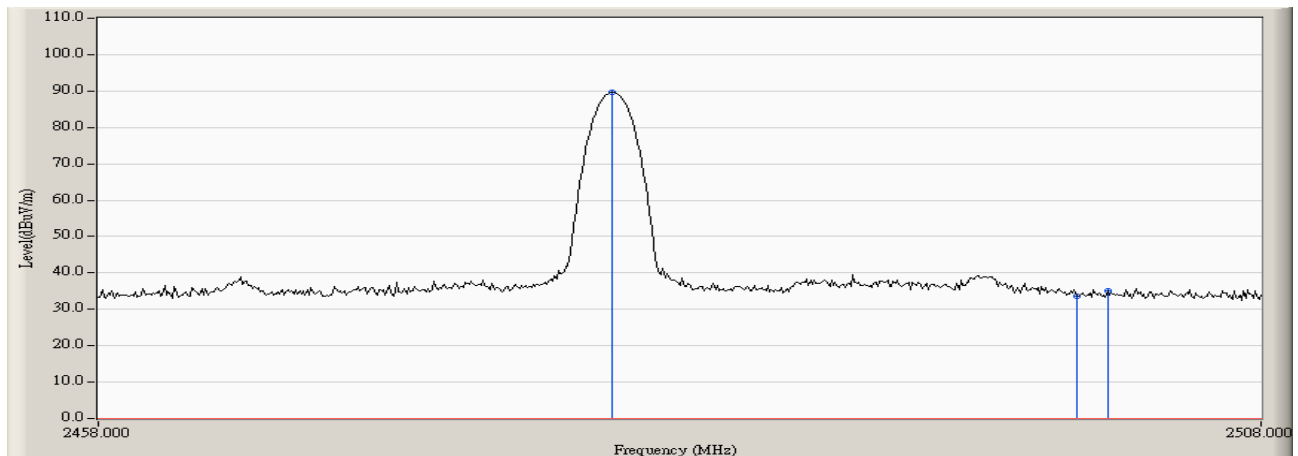
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2500.000	37.345	33.632	74.00	54.00	Pass
78(Average)	--	--	--	74.00	54.00	Pass

Figure Channel 78: (Vertical)



Note:

RBW=1MHz, VBW=1MHz, Sweep Time=500ms.

Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Channel Number

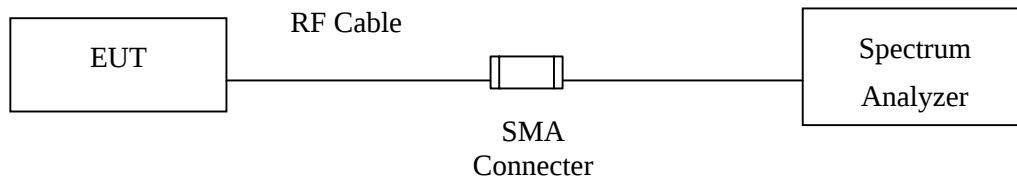
6.1. Test Equipment

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

6.2. Test Setup



6.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

6.4. Uncertainty

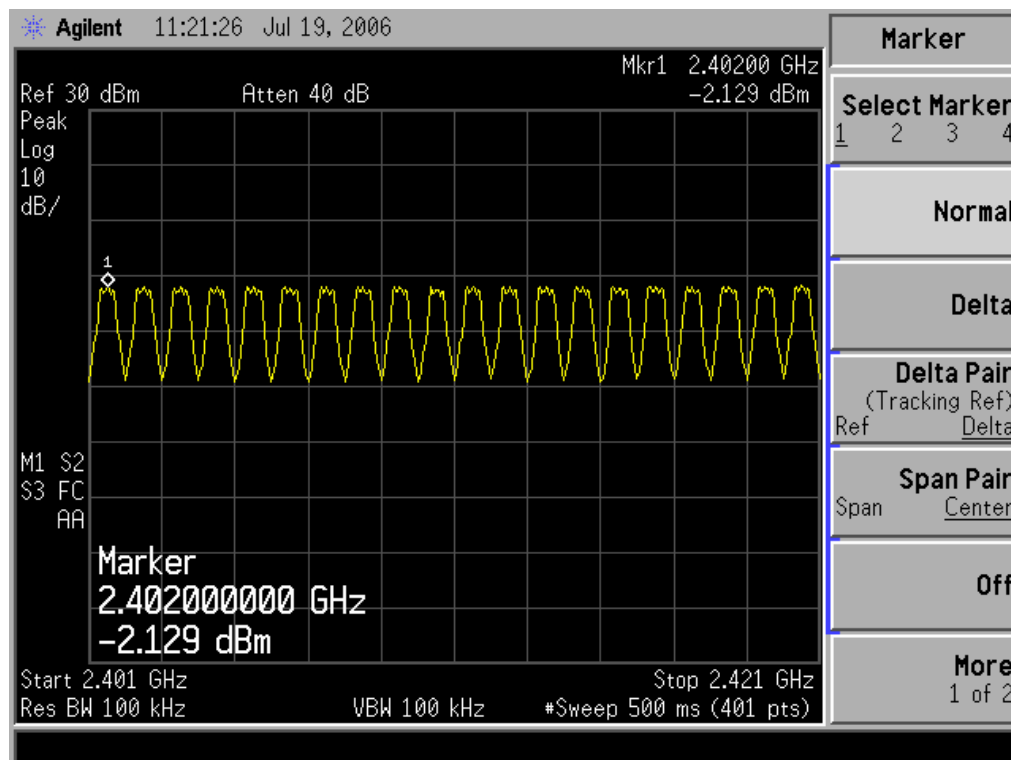
The measurement uncertainty is defined as $\pm 200\text{kHz}$

6.5. Test Result of Channel Number

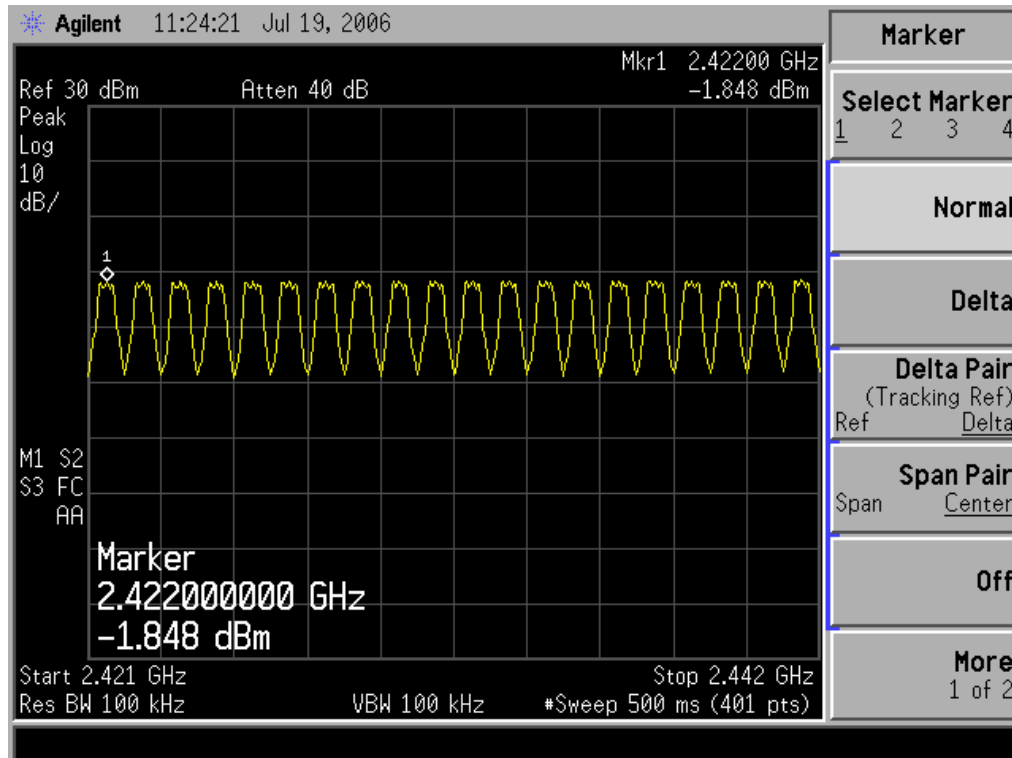
Product : Bluetooth Handset (BTHS080)
 Test Item : Channel Number
 Test Site : AC-3
 Test Mode : Mode 1: Transmitter

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

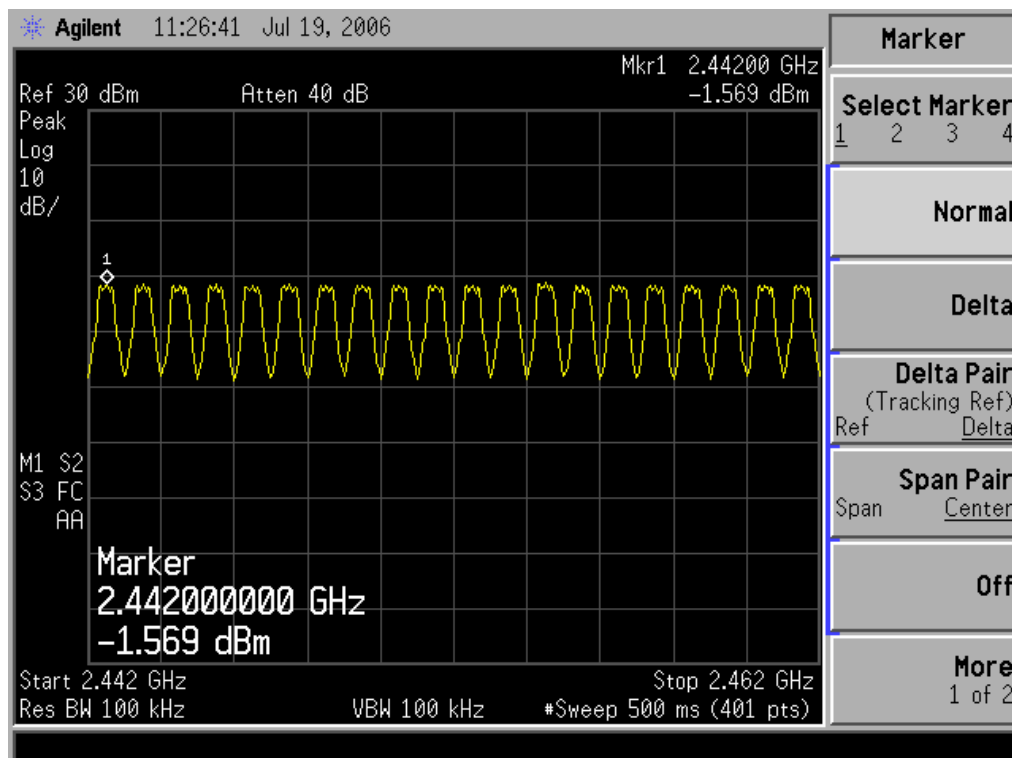
Frequency (2402-2421MHz)



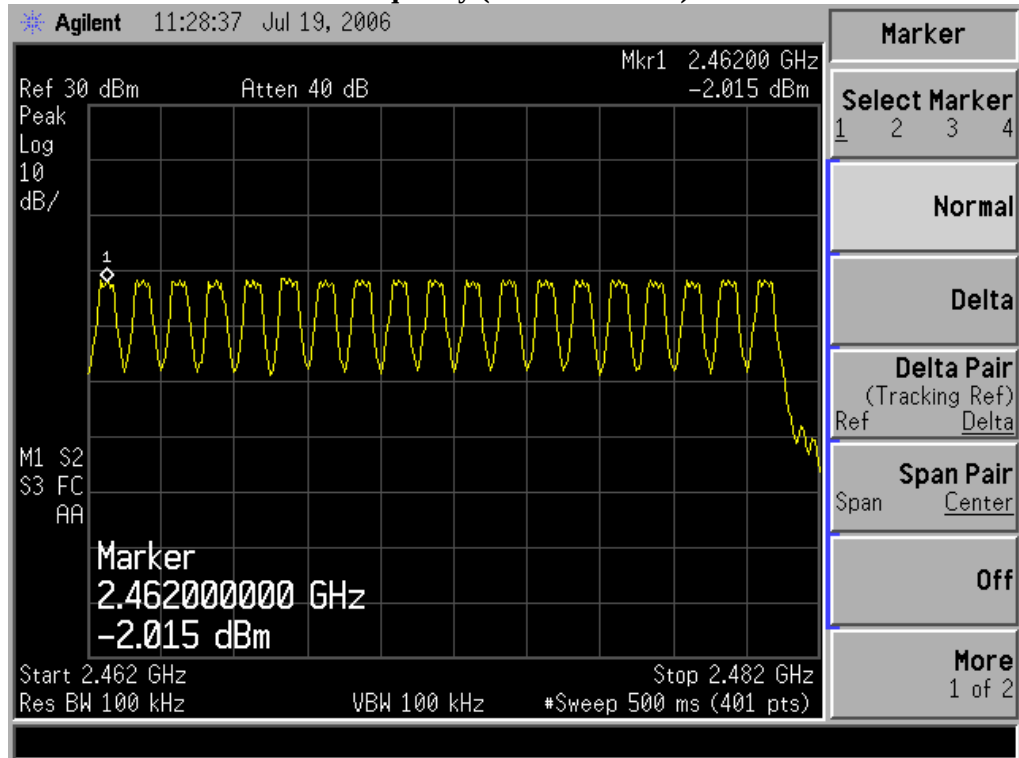
Frequency (2422-2441MHz)



Frequency (2442-2471MHz)



Frequency (2472-2480MHz)



7. Channel Separation

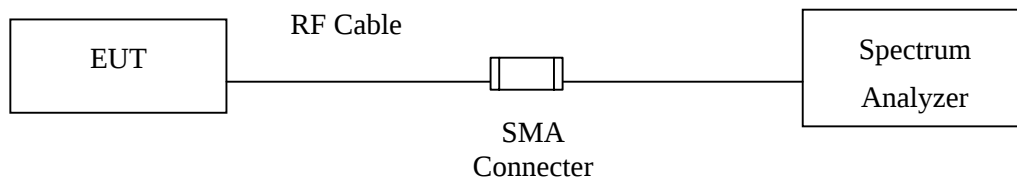
7.1. Test Equipment

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

7.2. Test Setup



7.3. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.4. Uncertainty

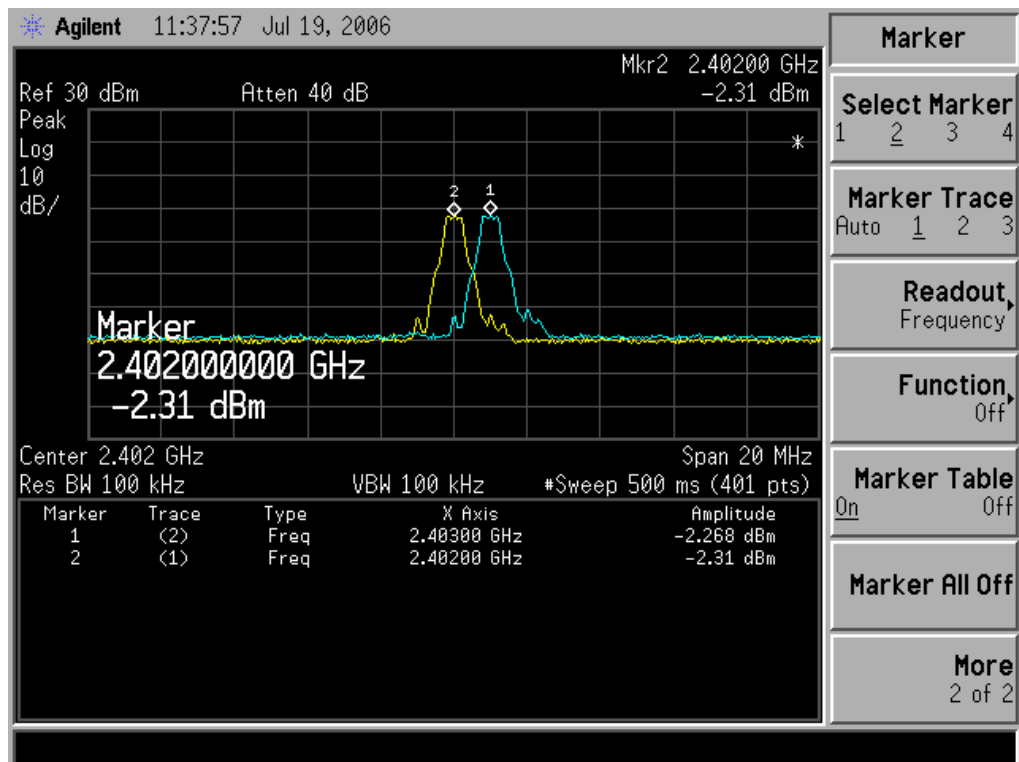
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.5. Test Result of Channel Separation

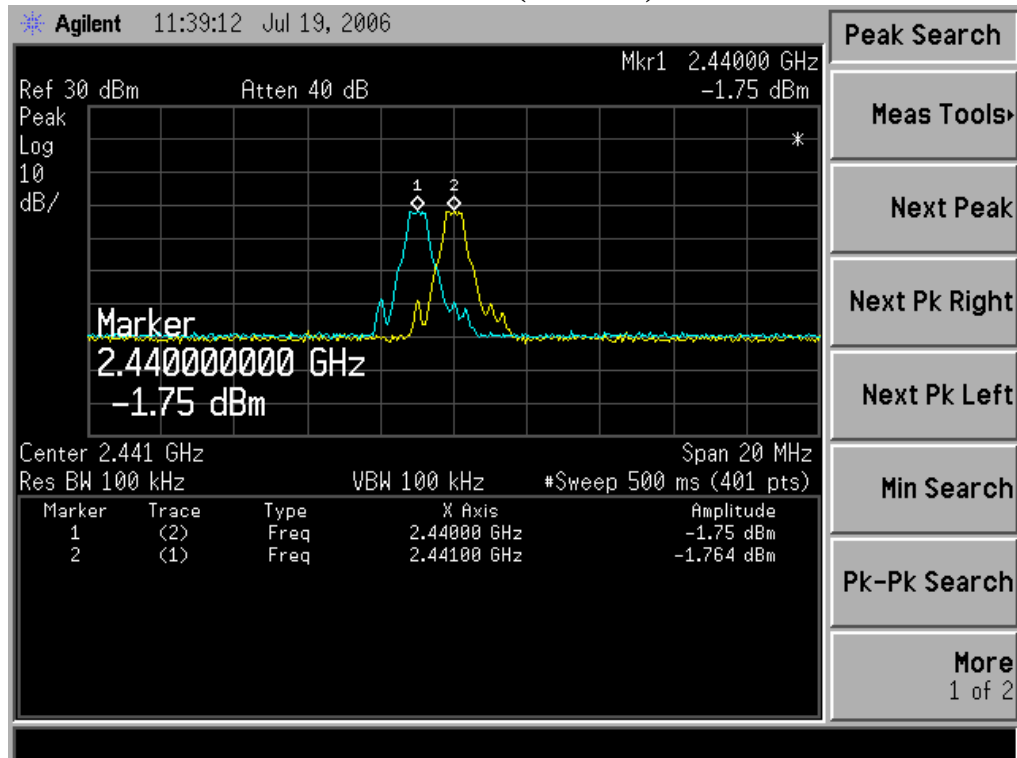
Product : Bluetooth Handset (BTHS080)
 Test Item : Channel Separation
 Test Site : AC-3
 Test Mode : Mode 1: Transmitter

Frequency (MHz)	Measurement Level (MHz)	Required Limit	Result
2402	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2441	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2480	1.00	>25 kHz or 2/3 * 20 dB BW	Pass

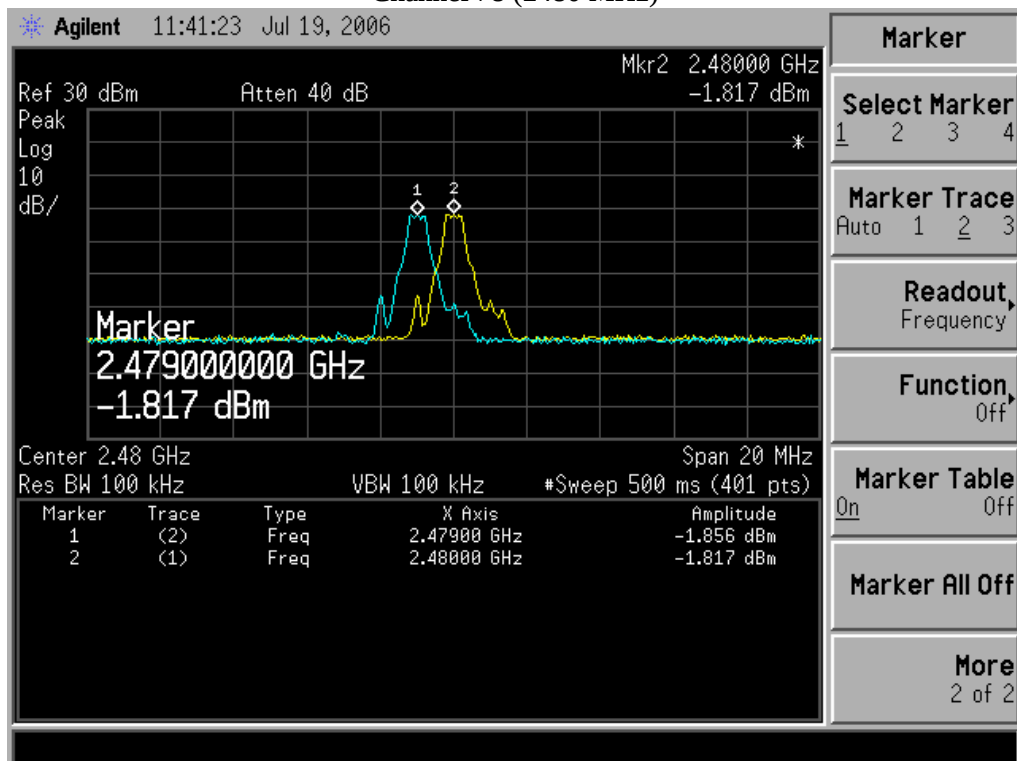
Channel 00 (2402MHz)



Channel 39 (2441MHz)



Channel 78 (2480 MHz)



8. Dwell Time

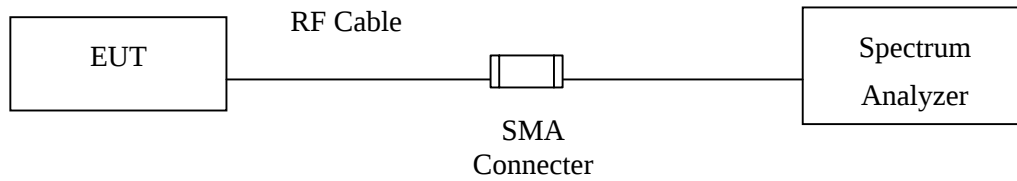
8.1. Test Equipment

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

8.2. Test Setup



8.3. Limit

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

8.4. Uncertainty

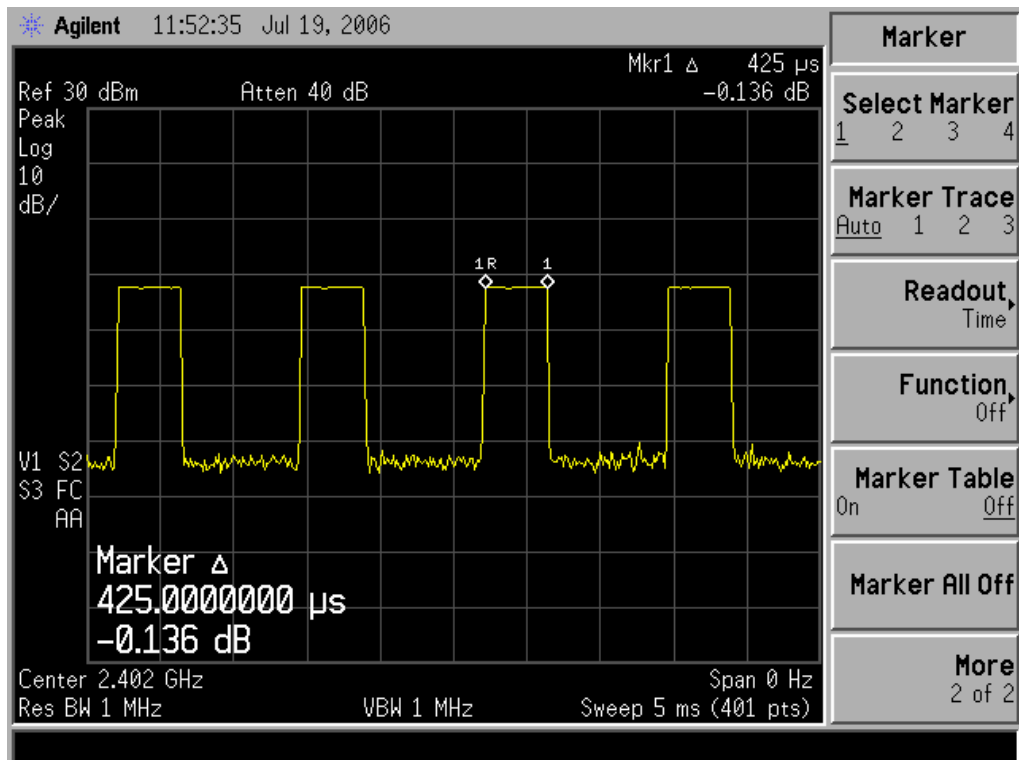
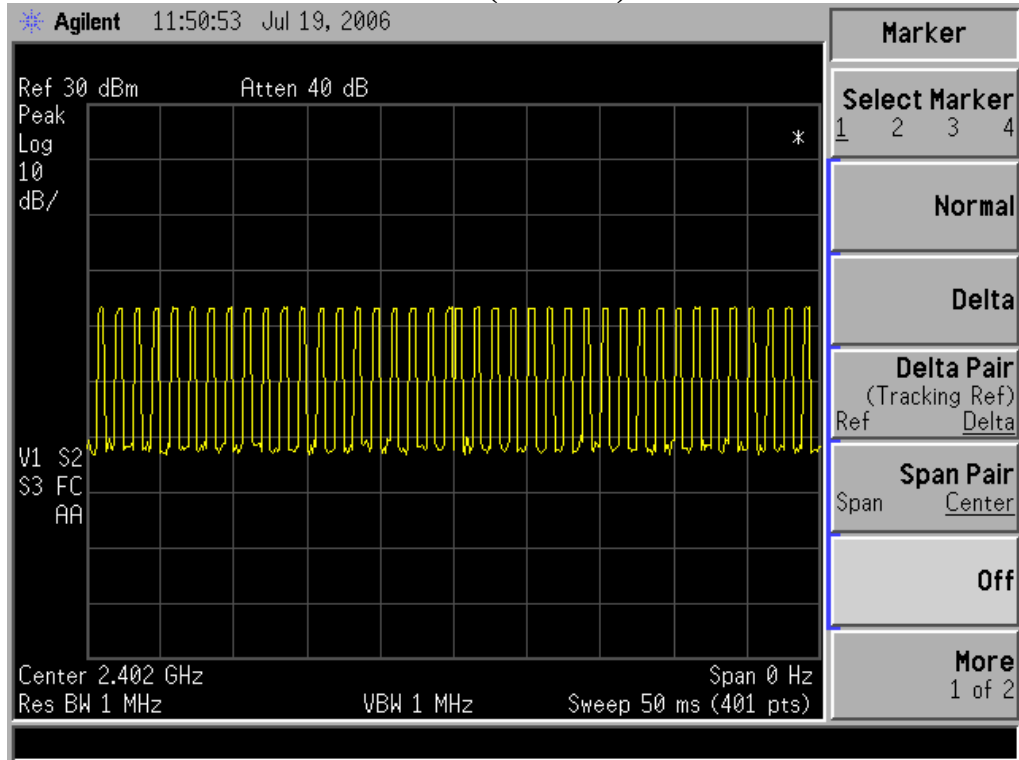
The measurement uncertainty is defined as $\pm 25\text{msec}$

8.5. Test Result of Dwell Time

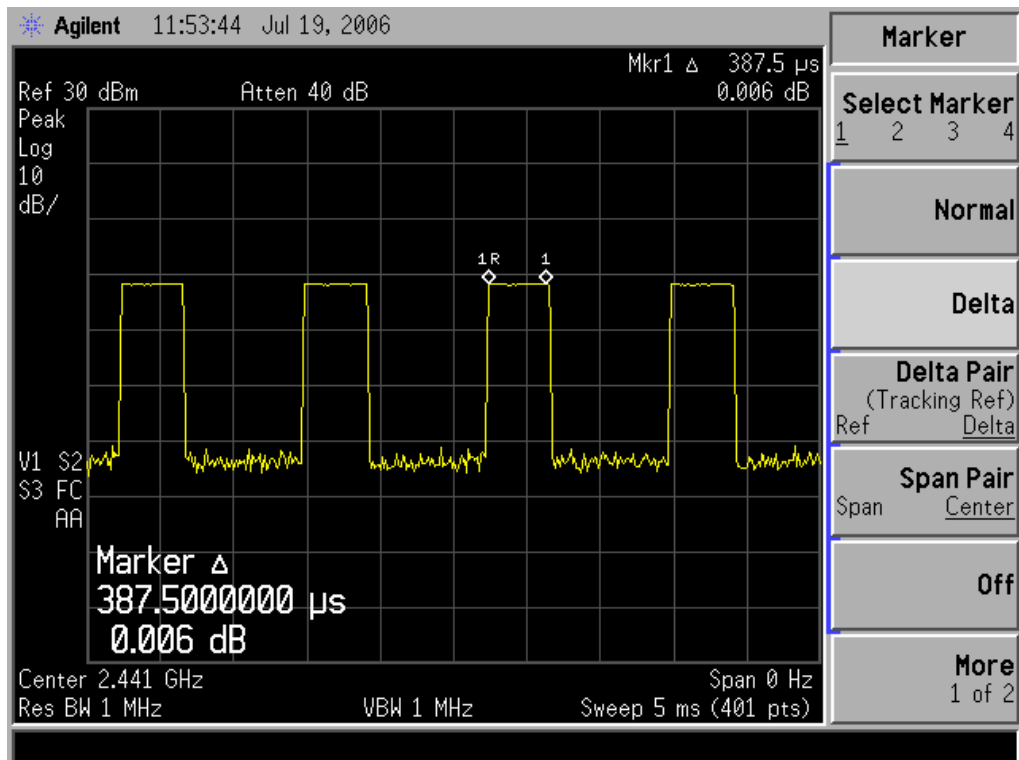
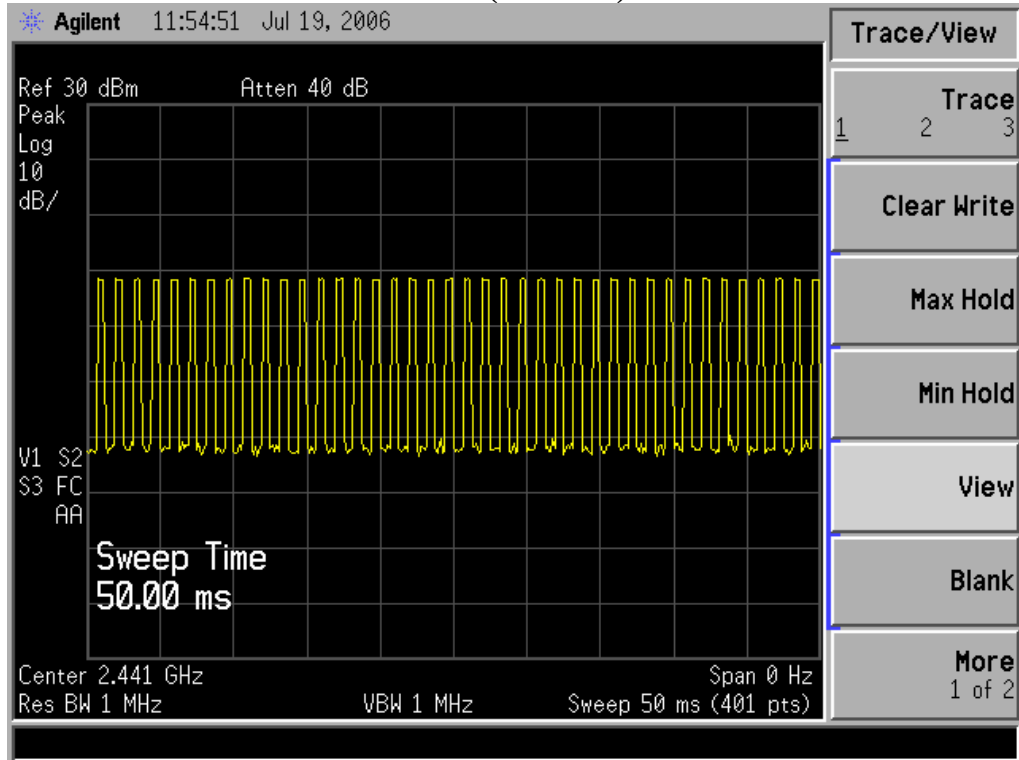
Product : Bluetooth Handset (BTHS080)
Test Item : Dwell Time
Test Site : AC-3
Test Mode : Mode 1: Transmitter

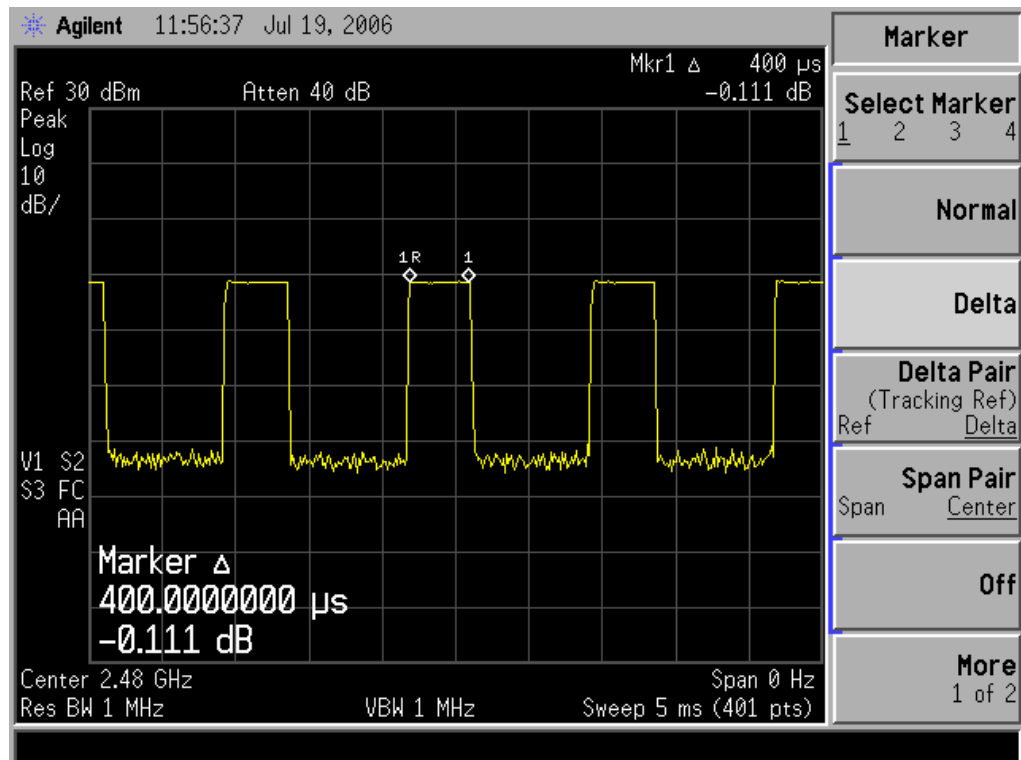
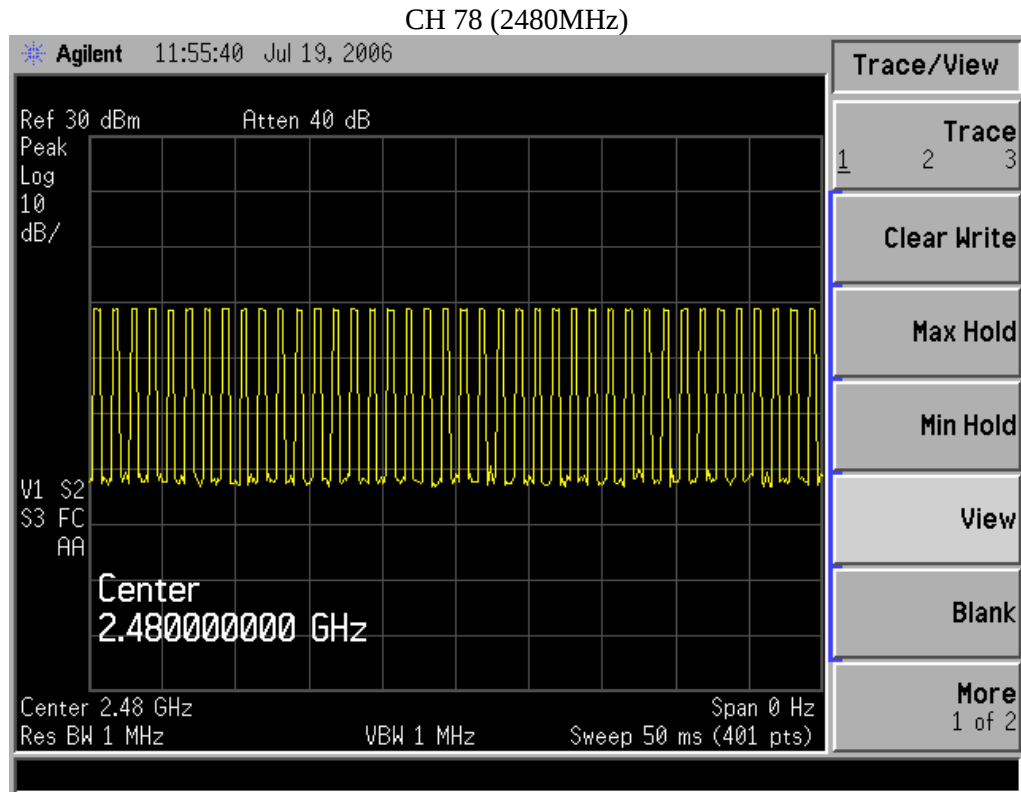
Channel (MHz)	Measurement Level (ms)	Required Limit (sec.)	Result
CH 00 (2402)	136.000	< 0.4	Pass
CH 39 (2441)	124.000	< 0.4	Pass
CH 78 (2480)	128.000	< 0.4	Pass

CH 00 (2402MHz)



CH 39 (2441MHz)





Note: Dwell time = time slot length * hop rate / number of hopping channels * period

Occupancy Time of Frequency Hopping System

Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $40/50\text{msec} = 800\text{ hops/sec}$.

A) 2402MHz The Maximum Occupancy Time Within 31.6sec: $(425 \mu\text{s} \times 800) / 79 \times 31.6 = 136.000\text{msec}$ °

B) 2441MHz The Maximum Occupancy Time Within 31.6sec: $(387.5 \mu\text{s} \times 800) / 79 \times 31.6 = 124.000\text{msec}$ °

C) 2480MHz The Maximum Occupancy Time Within 31.6sec: $(400 \mu\text{s} \times 800) / 79 \times 31.6 = 128.000\text{msec}$ °

Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard °

PS: (1) From Bluetooth Specification , It Hops 1640 Times in 1sec ° The Average Occupancy Time of Each 79 Channels is $1640/79$ Times , Therefore , We Calculate The Maximum Occupancy Time (worse cars) As Below:

A) 2402Mhz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $0.4\text{msec} \times 1640 / 79 \times 31.6 = 289.056\text{msec}$

B) 2441MHz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $0.4\text{msec} \times 1640 / 79 \times 31.6 = 289.056\text{msec}$

C) 2480MHz The Occupancy Time of Each Pulse is 0.4msec , The Maximum Occupancy Time within 31.6sec is $0.4\text{msec} \times 1640 / 79 \times 31.6 = 289.056\text{msec}$

Test Result: The Maximum Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard °

9. Occupied Bandwidth

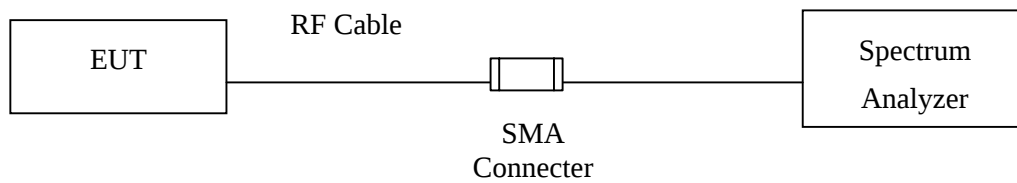
9.1. Test Equipment

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2006/03/11

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

The minimum bandwidth shall be at least 500kHz.

9.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.5. Test Result of Occupied Bandwidth

Product : Bluetooth Handset (BTHS080)
 Test Item : Occupied Bandwidth Data
 Test Site : AC-3
 Test Mode : Mode 1: Transmitter (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1080	--	Pass
39	2441	1070	--	Pass
78	2480	1080	--	Pass

Figure Channel 00 (2402MHz)

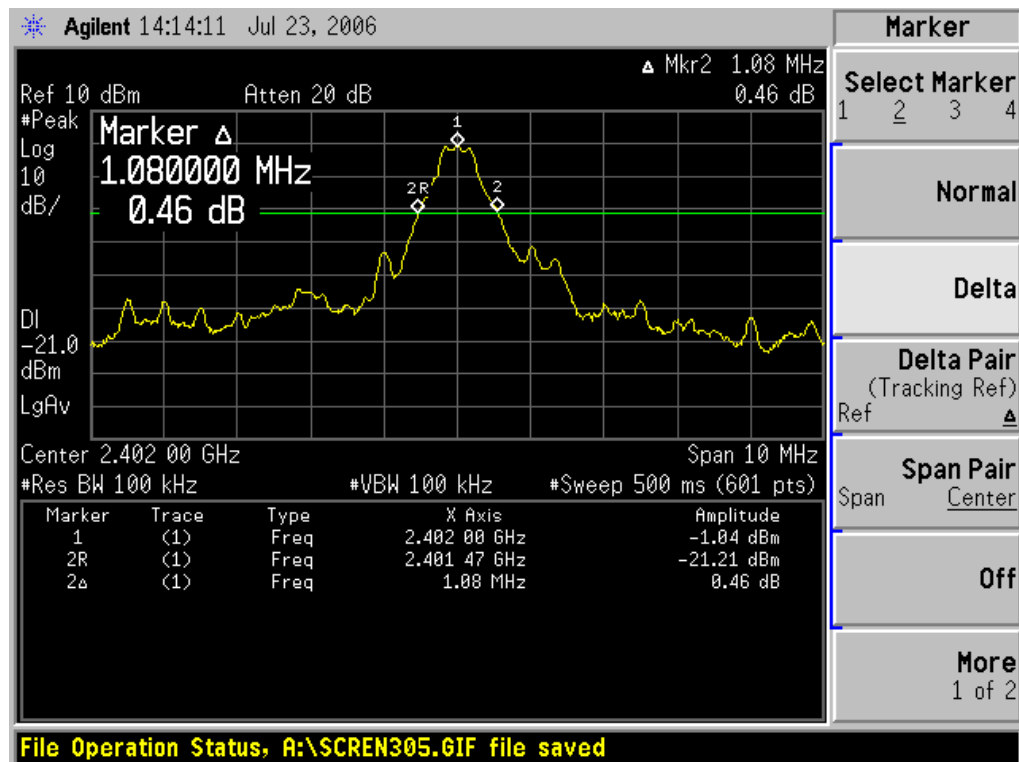


Figure Channel 39 (2402MHz)

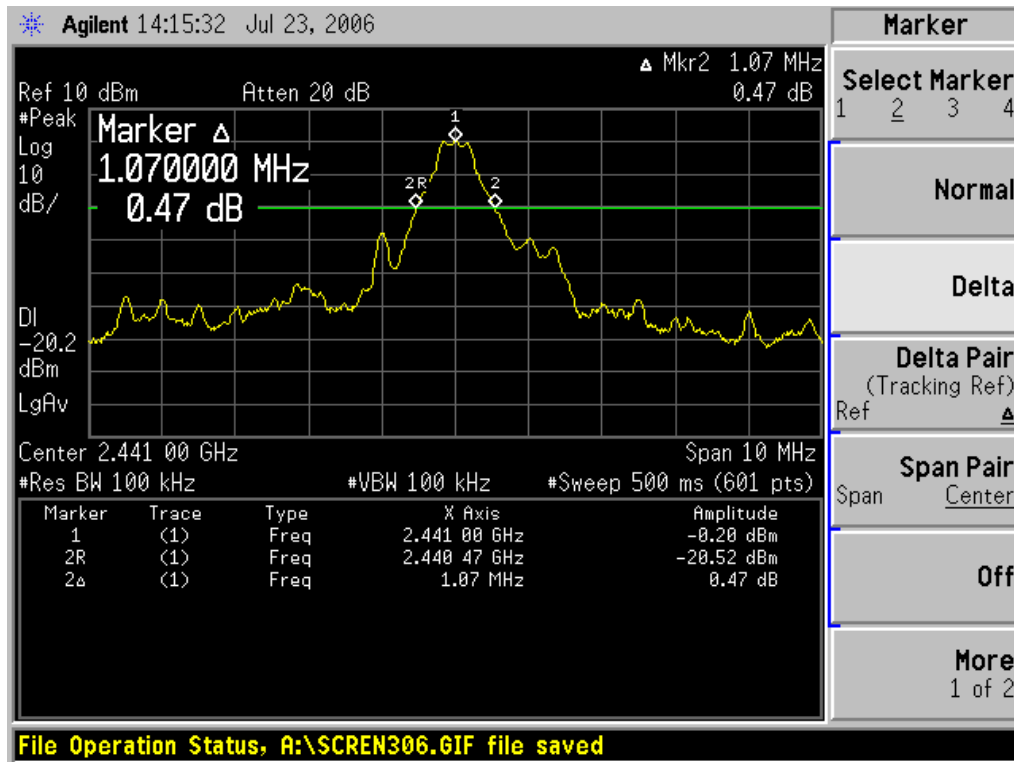
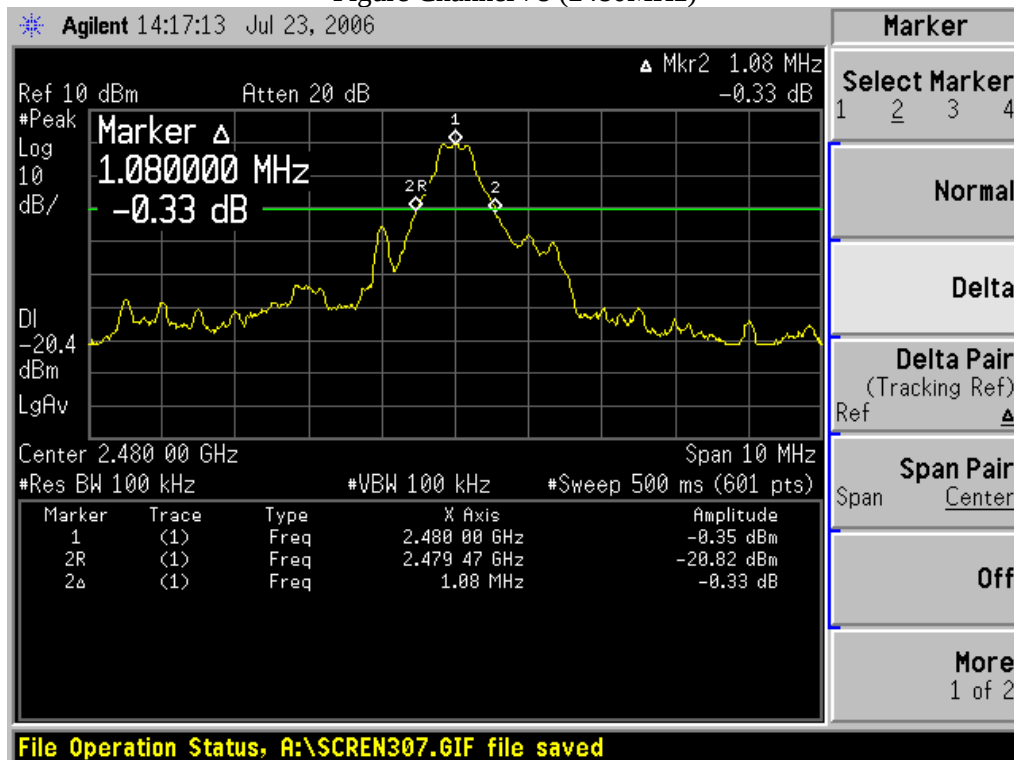


Figure Channel 78 (2480MHz)



10. EMI Reduction Method During Compliance Testing

No modification was made during testing.