



Test Report

Product Name : M-1000 Bluetooth GPS Receiver
Model No. : M-1000XX
FCC ID. : RJI M-1000XX

Applicant : Holux Technology, Inc.

Address : 1F, No.30, R&D Rd. II, Hsinchu City 300, Taiwan (R.O.C.)

Date of Receipt : 2007/03/09

Issued Date : 2007/03/29

Report No. : 073H032-RFUSP06V01

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.

Test Report Certification

Issued Date : 2007/03/29

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Product Name : M-1000 Bluetooth GPS Receiver
Applicant : Holux Technology, Inc.
Address : 1F, No.30, R&D Rd. II, Hsinchu City 300, Taiwan (R.O.C.)
Manufacturer : Holux Technology, Inc.
Model No. : M-1000XX
FCC ID. : RJI M-1000XX
Rated Voltage : AC 120 V / 60 Hz
EUT Voltage : AC 120 V / 60 Hz
Trade Name : **HOLUX**
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test Result : Complied

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.

Documented By : Sandy Chuang
(Sandy Chuang)

Tested By : Sheena Huang
(Sheena Huang)

Approved By : Roy Wang
(Roy Wang)

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1. General Information

1.1. EUT Description

Product Name	M-1000 Bluetooth GPS Receiver
Trade Name	HOLUX
Model No.	M-1000XX
Frequency Range	2402~2480MHz
Channel Number	79
Type of Modulation	FHSS
Channel Control	Auto
Antenna Type	Micro-strip Antenna
Antenna Gain	2.52dBi

Component	
Car Charger	Dmatek, YF-051000 I/P: 12V-24V O/P: DC 5.4V, 1.0A Cable Out: Non-Shielded, 1.8m
Power Adapter	SWITCHING, SYS1196-0605-W2 I/P: 100-240V, 0.3A MAX, 20-30VA, 50-60Hz O/P: +5V/1.0A, O/P Power: 5W MAX Cable Out: Non-Shielded, 1.5m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 20	2422 MHz	Channel 40	2442 MHz	Channel 60	2462 MHz
Channel 01	2403 MHz	Channel 21	2423 MHz	Channel 41	2443 MHz	Channel 61	2463 MHz
Channel 02	2404 MHz	Channel 22	2424 MHz	Channel 42	2444 MHz	Channel 62	2464 MHz
Channel 03	2405 MHz	Channel 23	2425 MHz	Channel 43	2445 MHz	Channel 63	2465 MHz
Channel 04	2406 MHz	Channel 24	2426 MHz	Channel 44	2446 MHz	Channel 64	2466 MHz
Channel 05	2407 MHz	Channel 25	2427 MHz	Channel 45	2447 MHz	Channel 65	2467 MHz
Channel 06	2408 MHz	Channel 26	2428 MHz	Channel 46	2448 MHz	Channel 66	2468 MHz
Channel 07	2409 MHz	Channel 27	2429 MHz	Channel 47	2449 MHz	Channel 67	2469 MHz
Channel 08	2410 MHz	Channel 28	2430 MHz	Channel 48	2450 MHz	Channel 68	2470 MHz
Channel 09	2411 MHz	Channel 29	2431 MHz	Channel 49	2451 MHz	Channel 69	2471 MHz
Channel 10	2412 MHz	Channel 30	2432 MHz	Channel 50	2452 MHz	Channel 70	2472 MHz
Channel 11	2413 MHz	Channel 31	2433 MHz	Channel 51	2453 MHz	Channel 71	2473 MHz
Channel 12	2414 MHz	Channel 32	2434 MHz	Channel 52	2454 MHz	Channel 72	2474 MHz
Channel 13	2415 MHz	Channel 33	2435 MHz	Channel 53	2455 MHz	Channel 73	2475 MHz
Channel 14	2416 MHz	Channel 34	2436 MHz	Channel 54	2456 MHz	Channel 74	2476 MHz
Channel 15	2417 MHz	Channel 35	2437 MHz	Channel 55	2457 MHz	Channel 75	2477 MHz
Channel 16	2418 MHz	Channel 36	2438 MHz	Channel 56	2458 MHz	Channel 76	2478 MHz
Channel 17	2419 MHz	Channel 37	2439 MHz	Channel 57	2459 MHz	Channel 77	2479 MHz
Channel 18	2420 MHz	Channel 38	2440 MHz	Channel 58	2460 MHz	Channel 78	2480 MHz
Channel 19	2421 MHz	Channel 39	2441 MHz	Channel 59	2461 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 hop sets 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 M-1000 Bluetooth GPS Receiver included a 2.4GHz receiving function, and 2.4GHz transmitting function.
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, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 073H032-RFUSP01V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-Test Mode	
EMI	Mode 1: Transmit (Adapter) Mode 2: Transmit (Car Charger)
Final Test Mode	
EMI	Mode 1: Transmit (Adapter) Mode 2: Transmit (Car Charger)

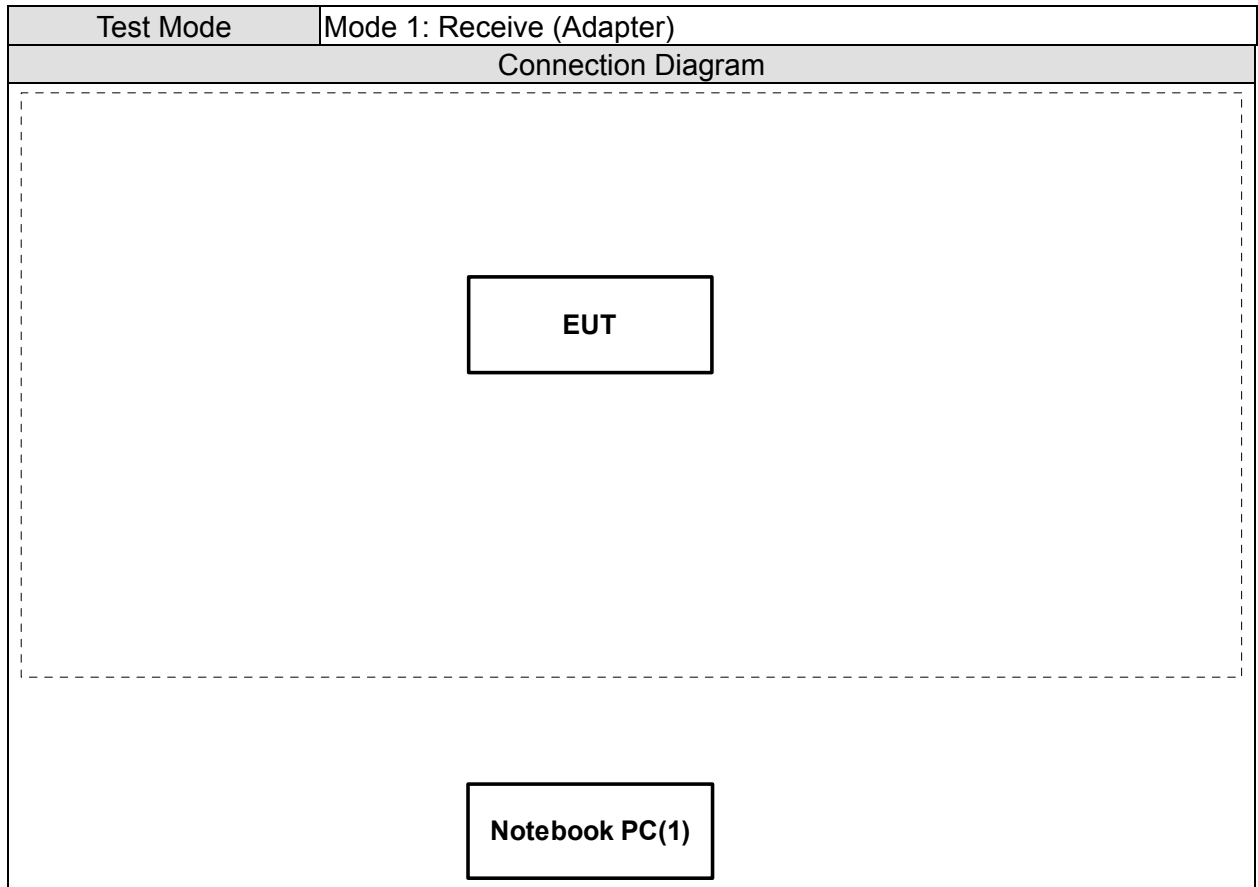
1.4. Tested System Details

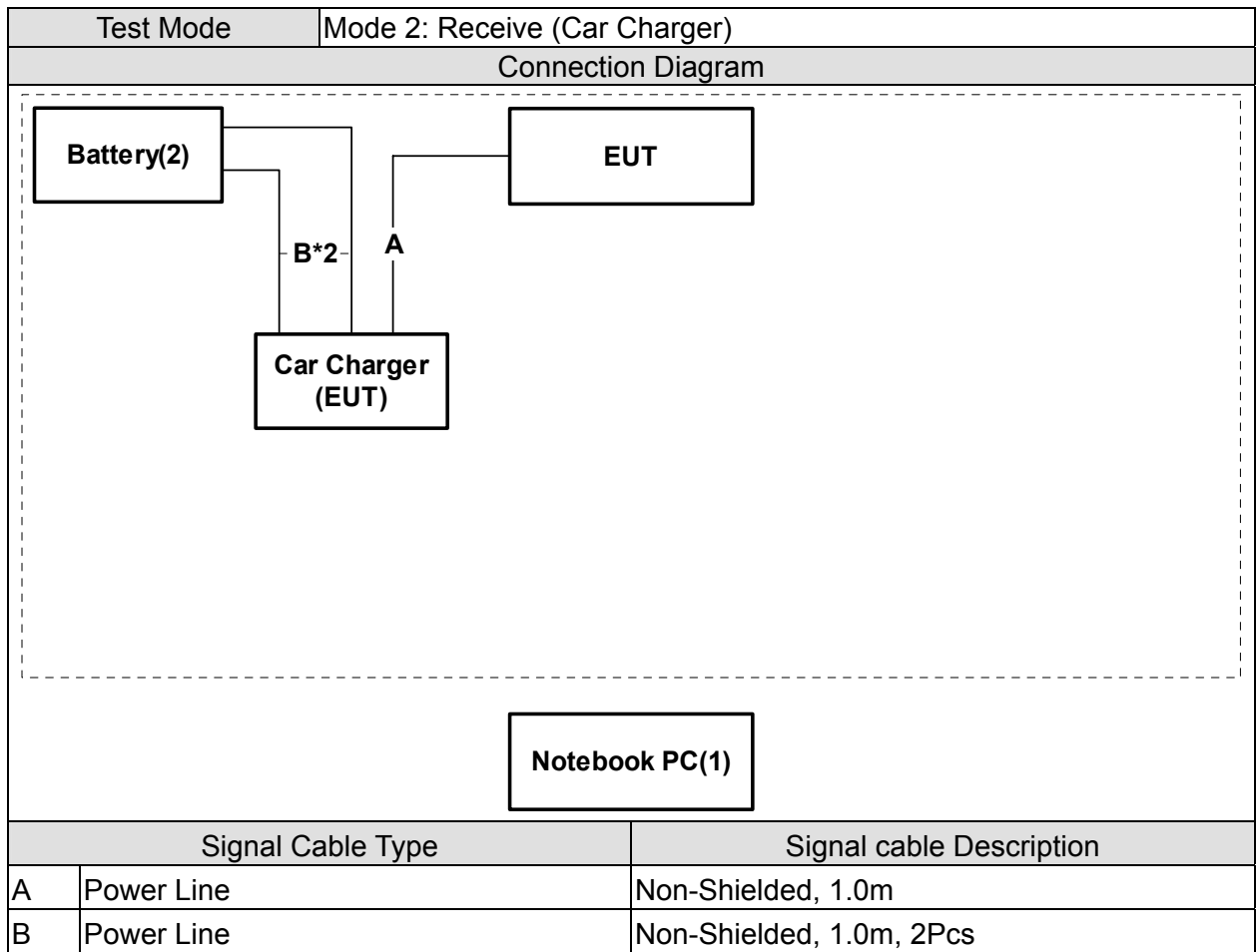
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1: Receive (Adapter)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	LATITUDE D400	N/A	Non-Shielded, 1.7m, a ferrite core bonded

Test Mode		Mode 2: Receive (Car Charger)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	LATITUDE D400	N/A	Non-Shielded, 1.7m, a ferrite core bonded
2	Battery	SEALED LEAD	N/A	N/A	--

1.5. Configuration of tested System





1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	Verify the model operation.
4	Repeat the above procedure (3) to (4).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Of Number (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	53
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Channel Separation (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Dwell Time (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	59
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	58
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313
ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2006



Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

2.1. Test Equipment

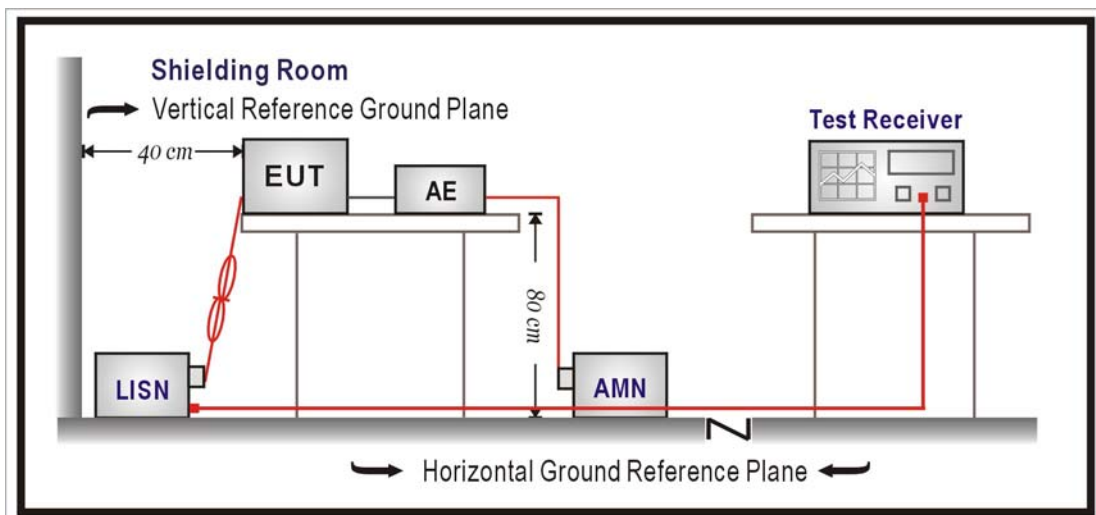
The following test equipment are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
4-Wire ISN	R & S	ENY 41	837032/001	2006/04/15
Artificial Mains Network	R & S	ENV4200	848411/010	2007/03/13
Double 2-Wire ISN	R & S	ENY 22	835354/008	2006/04/15
LISN	R & S	ESH3-Z5	825562/002	2006/03/31
Pulse Limiter	R & S	ZSH3Z2	357.8810.54	2006/07/19
Test Receiver	R & S	ESCS 30	100122	2007/02/21

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 Limits (dBuV)		
Frequency MHz	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

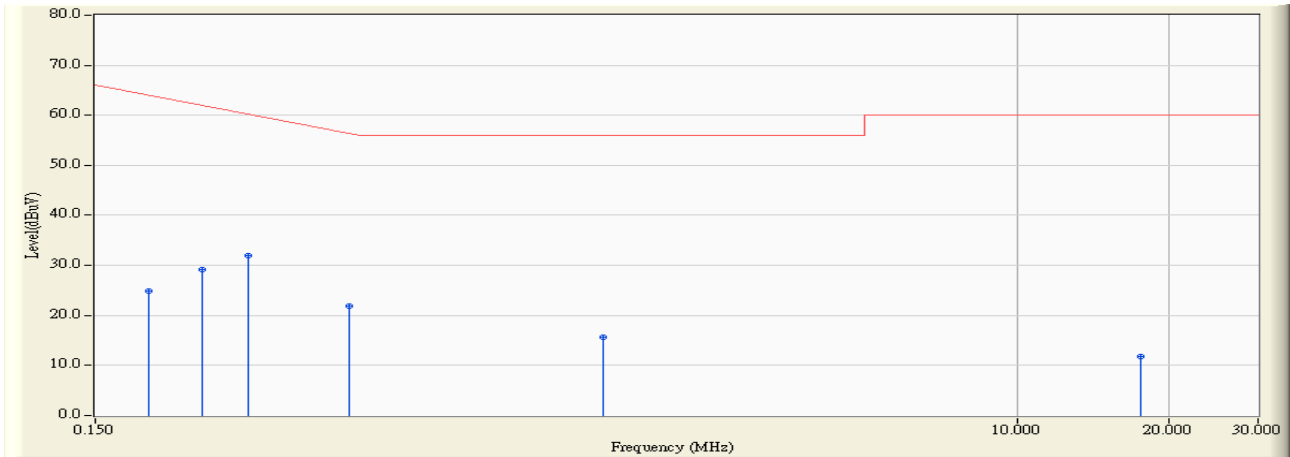
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling 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. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2004

2.6. Test Result

Site : QuieTek Shielding Room2	Time : 2007/03/22 - 09:31
Limit : CISPR_B_00M_QP	Margin : 0
EUT : M-1000 Bluetooth GPS Receiver	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX

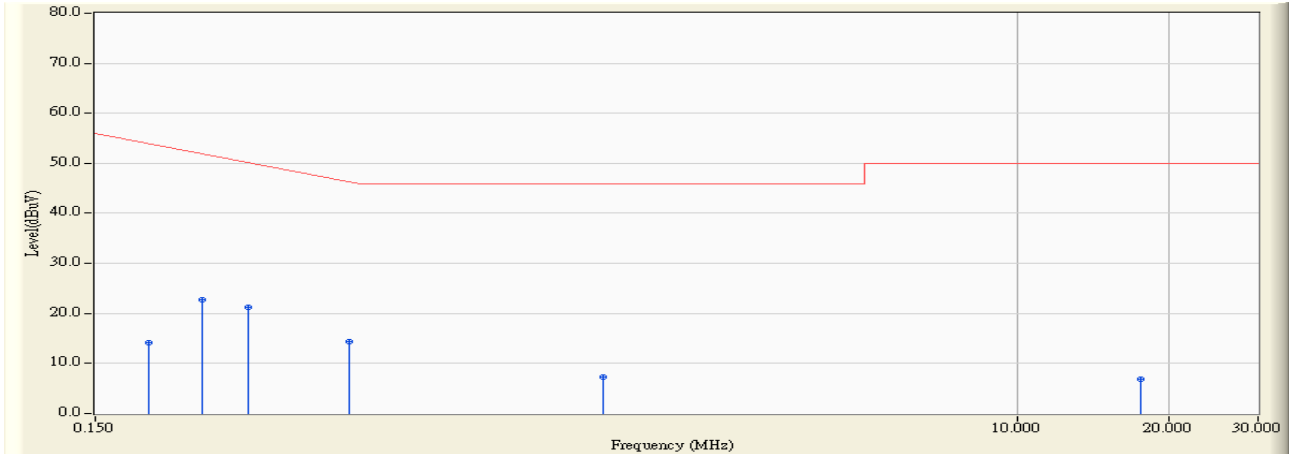


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.191	0.151	24.750	24.901	-39.928	64.829	QUASIPeAK
2	0.244	0.160	29.040	29.200	-34.114	63.314	QUASIPeAK
3	* 0.302	0.178	31.680	31.858	-29.799	61.657	QUASIPeAK
4	0.478	0.207	21.630	21.837	-34.792	56.629	QUASIPeAK
5	1.516	0.310	15.360	15.670	-40.330	56.000	QUASIPeAK
6	17.599	0.940	10.800	11.740	-48.260	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

Site : QuieTek Shielding Room2	Time : 2007/03/22 - 09:31
Limit : CISPR_B_00M_AV	Margin : 0
EUT : M-1000 Bluetooth GPS Receiver	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : TX

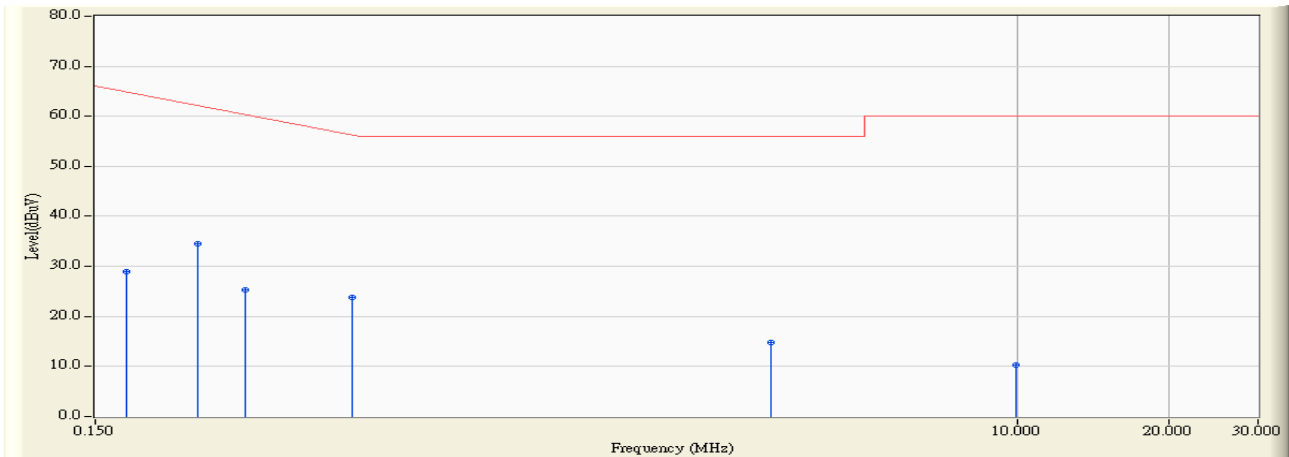


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.191	0.151	14.040	14.191	-40.638	54.829	AVERAGE
2	0.244	0.160	22.520	22.680	-30.634	53.314	AVERAGE
3	* 0.302	0.178	21.140	21.318	-30.339	51.657	AVERAGE
4	0.478	0.207	14.150	14.357	-32.272	46.629	AVERAGE
5	1.516	0.310	7.000	7.310	-38.690	46.000	AVERAGE
6	17.599	0.940	6.030	6.970	-43.030	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

Site : QuieTek Shielding Room2	Time : 2007/03/22 - 09:36
Limit : CISPR_B_00M_QP	Margin : 0
EUT : M-1000 Bluetooth GPS Receiver	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX

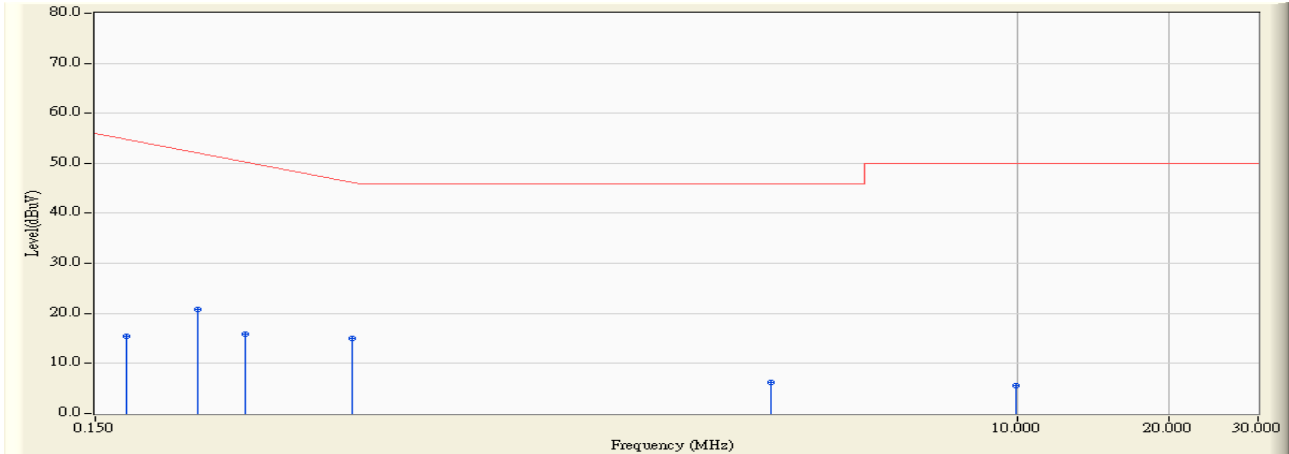


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.173	0.145	28.730	28.875	-36.468	65.343	QUASIPeAK
2	*	0.160	34.370	34.530	-28.899	63.429	QUASIPeAK
3	0.298	0.177	25.120	25.297	-36.474	61.771	QUASIPeAK
4	0.482	0.208	23.590	23.798	-32.716	56.514	QUASIPeAK
5	3.252	0.420	14.310	14.730	-41.270	56.000	QUASIPeAK
6	9.943	0.620	9.580	10.200	-49.800	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

Site : QuieTek Shielding Room2	Time : 2007/03/22 - 09:36
Limit : CISPR_B_00M_AV	Margin : 0
EUT : M-1000 Bluetooth GPS Receiver	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : TX



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	0.145	15.320	15.465	-39.878	55.343	AVERAGE
2		0.240	0.160	20.640	20.800	-32.629	53.429	AVERAGE
3		0.298	0.177	15.640	15.817	-35.954	51.771	AVERAGE
4	*	0.482	0.208	14.830	15.038	-31.476	46.514	AVERAGE
5		3.252	0.420	5.850	6.270	-39.730	46.000	AVERAGE
6		9.943	0.620	4.900	5.520	-44.480	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

3. Peak Power Output

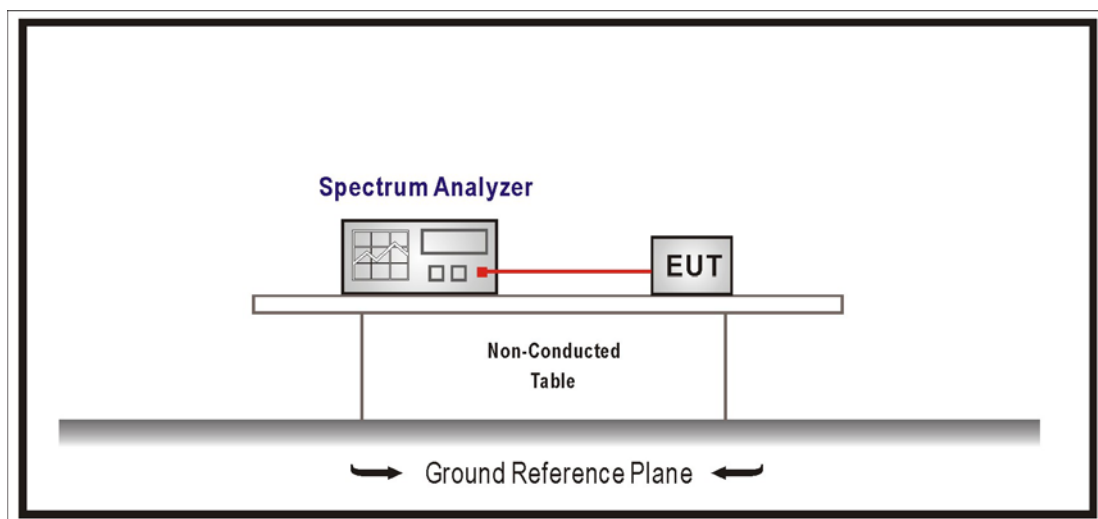
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Power Meter	Agilent	E4416A / GB41291630	May, 2007
2	Power Sensor	Agilent	E9323A / US40411166	Apr., 2006
3	No.1 OATS			Sep., 2006

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

3.2. Test Setup



3.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watt.

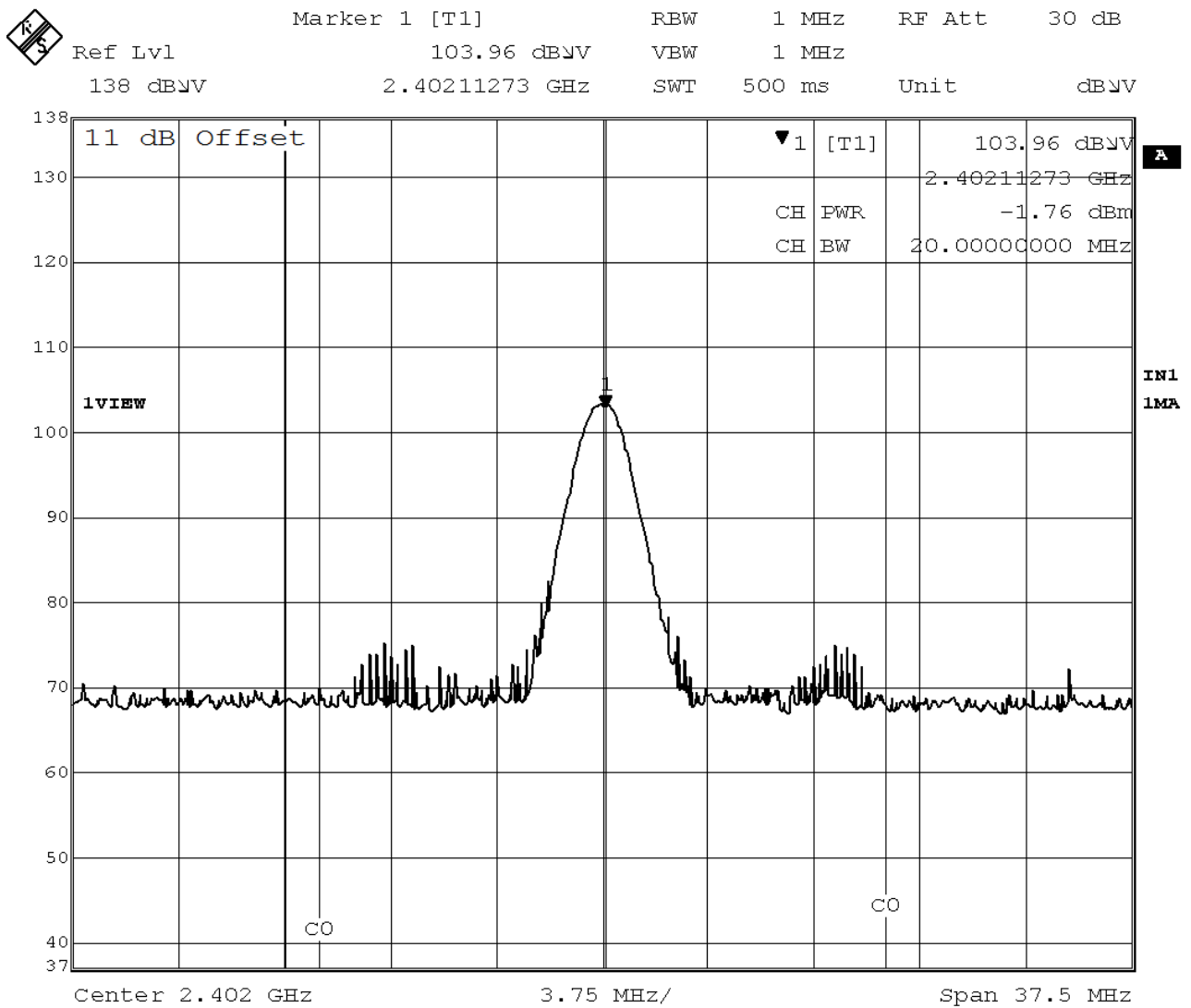
3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2004

3.5. Test Result

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

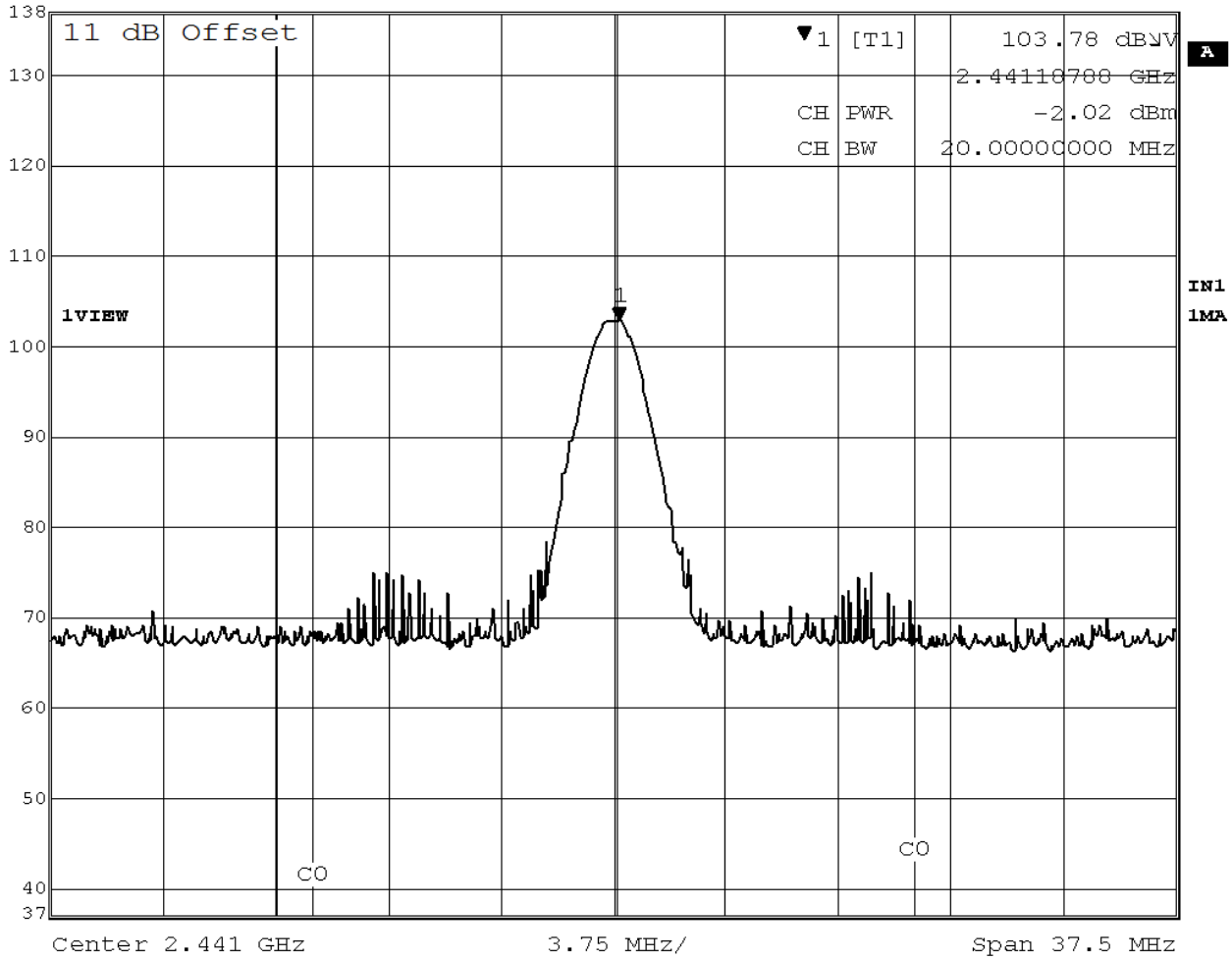
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402.00	-1.76	1Watt = 30 dBm	Pass
39	2441.00	-2.02	1Watt= 30 dBm	Pass
78	2480.00	-3.16	1Watt= 30 dBm	Pass



Date: 21.MAR.2007 15:42:58



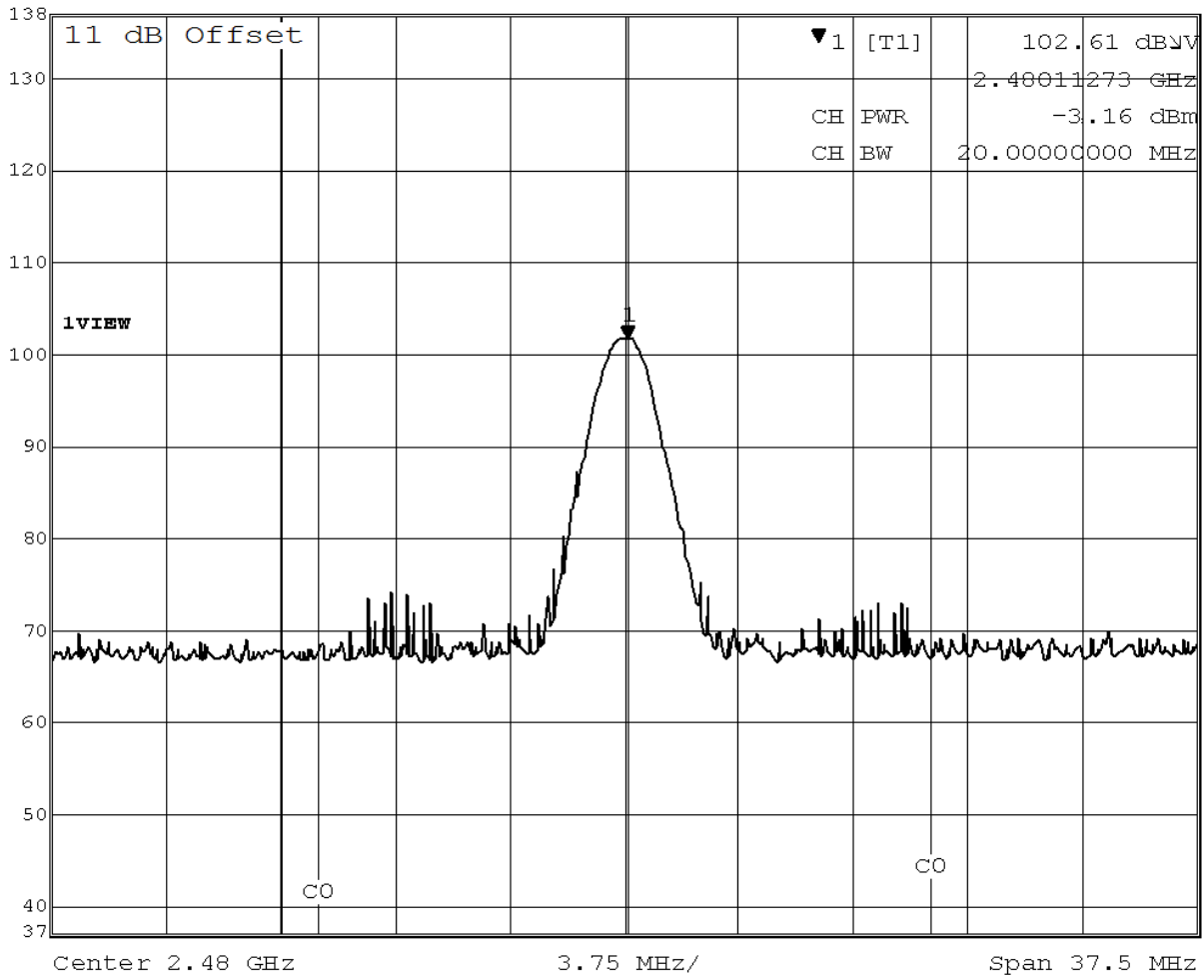
Marker 1 [T1] RBW 1 MHz RF Att 30 dB
 Ref Lvl 103.78 dBμV VBW 1 MHz
 138 dBμV 2.44118788 GHz SWT 500 ms Unit dBμV



Date: 21.MAR.2007 15:44:57



Marker 1 [T1]	RBW	1 MHz	RF Att	30 dB
Ref Lvl	102.61 dBμV	VBW	1 MHz	
138 dBμV	2.48011273 GHz	SWT	500 ms	Unit dBμV



Date: 21.MAR.2007 15:47:05

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the test:

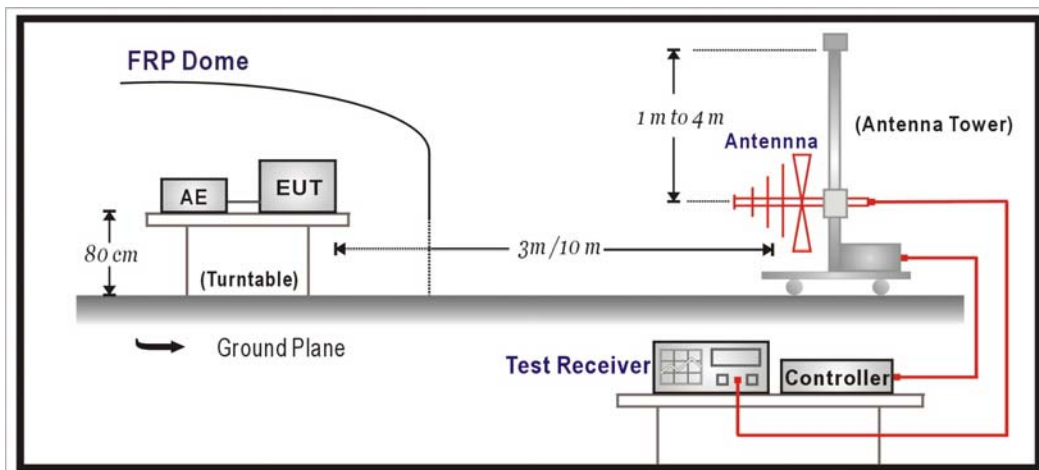
Radiated Emission / Site1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2895	2006/09/03
Horn Antenna	Electro Metrics	EM-6961	103325	2007/03/15
Pre-Amplifier	HP	8449B	3008A01123	2006/11/15
Pre-Amplifier	Quietek	AP-025C	N/A	N/A
Spectrum Analyzer	R & S	FSP40	100005	2006/08/25
Spectrum Analyzer	Advantest	R3162	120300649	2006/11/24
Test Receiver	R & S	ESCS 30	825442/017	2007/02/13

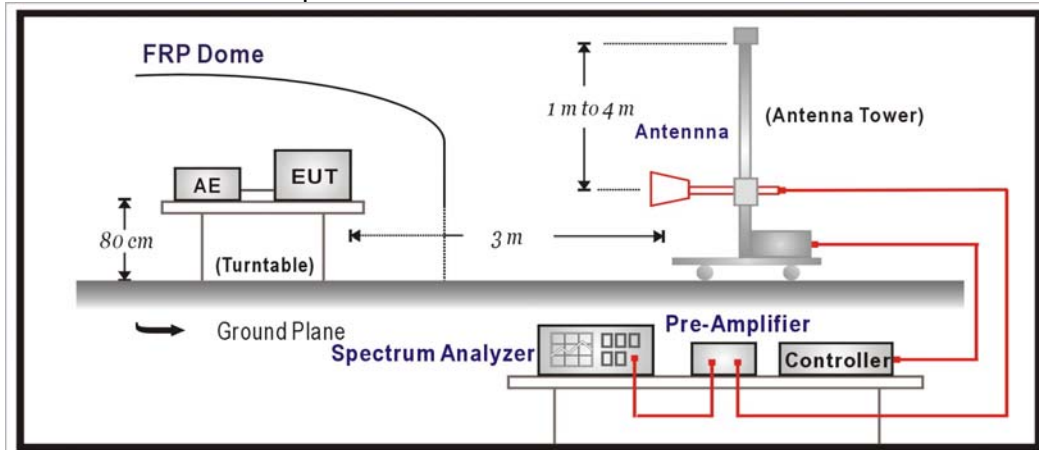
- Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. 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	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log 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 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.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

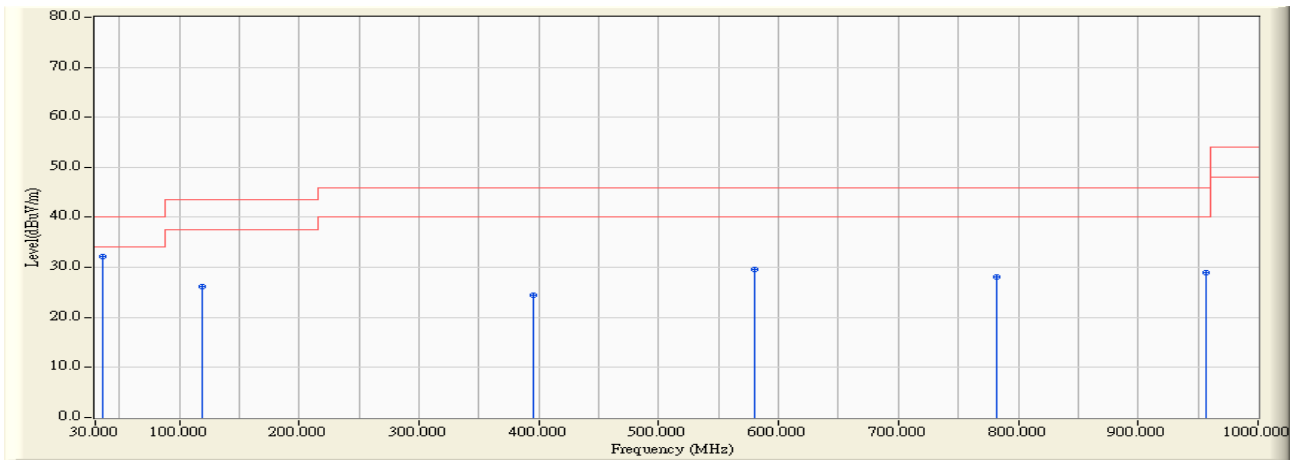
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2004

4.6. Test Result

30MHz-1GHz Spurious:

Site : Site 1	Time : 2007/03/22 - 23:02
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC120V/60Hz	Note:TX-MODE1

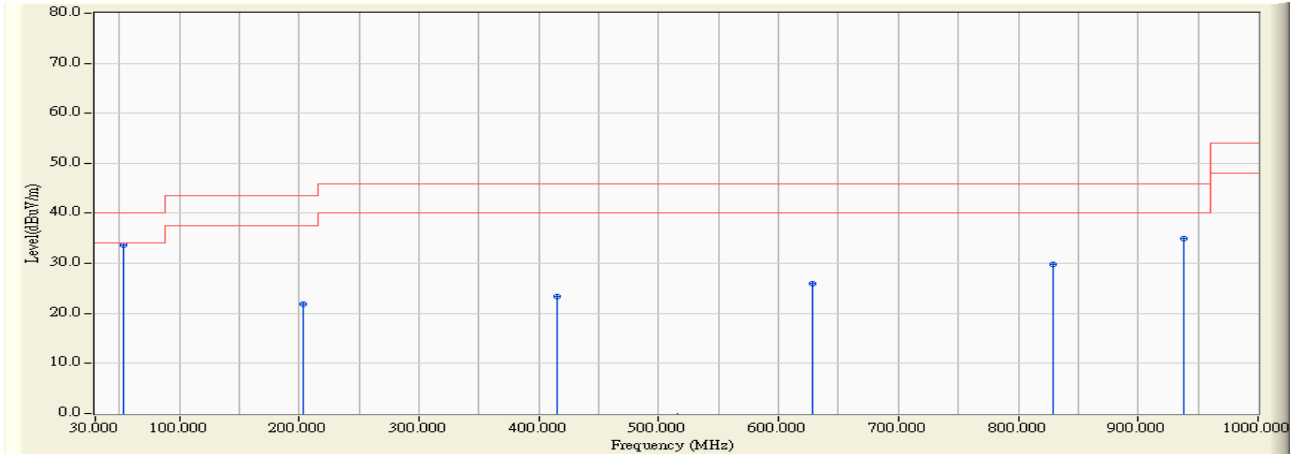


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	35.832	-4.761	36.931	32.170	-7.830	40.000	Quasi-Peak
2		119.419	-11.064	37.308	26.244	-17.256	43.500	Quasi-Peak
3		395.451	1.023	23.466	24.489	-21.511	46.000	Quasi-Peak
4		580.120	5.369	24.221	29.590	-16.410	46.000	Quasi-Peak
5		782.285	4.118	23.936	28.054	-17.946	46.000	Quasi-Peak
6		957.234	3.719	25.244	28.963	-17.037	46.000	Quasi-Peak

Note:

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

Site : Site 1	Time : 2007/03/22 - 23:09
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC120V/60Hz	Note:TX-MODE1

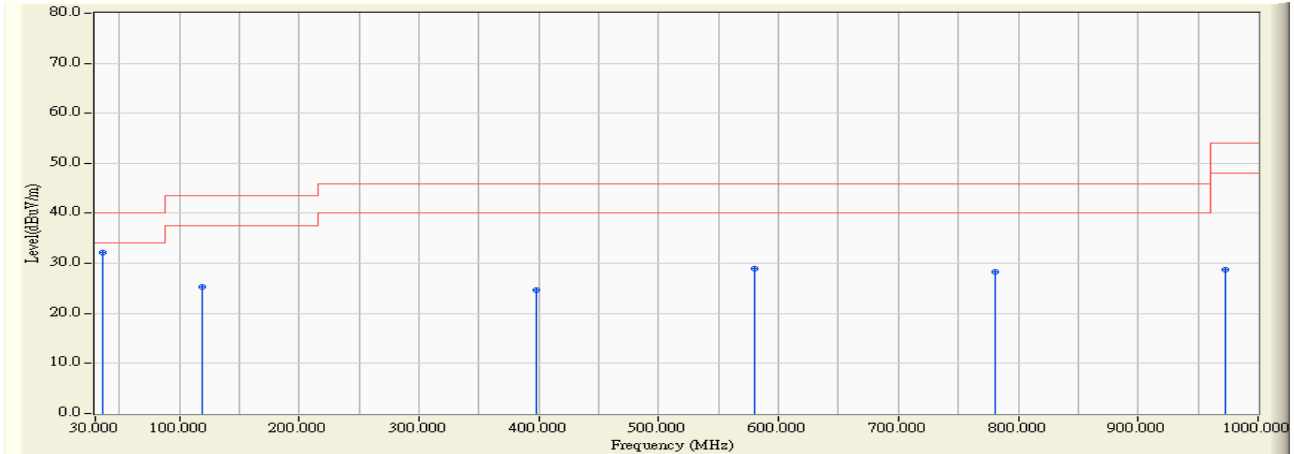


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	53.327	-7.186	40.931	33.745	-6.255	40.000	Quasi-Peak
2		203.006	-3.127	24.904	21.777	-21.723	43.500	Quasi-Peak
3		414.890	-0.338	23.679	23.341	-22.659	46.000	Quasi-Peak
4		515.000	-2.520	0.000	-2.520	-48.520	46.000	Quasi-Peak
5		628.717	1.939	23.934	25.873	-20.127	46.000	Quasi-Peak
6		828.938	5.191	24.544	29.735	-16.265	46.000	Quasi-Peak
7		937.796	9.020	26.030	35.050	-10.950	46.000	Quasi-Peak

Note:

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

Site : Site 1	Time : 2007/03/22 - 23:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_30-1G(200605) - HORIZONTAL
Power : AC120V/60Hz	Note:TX-MODE2

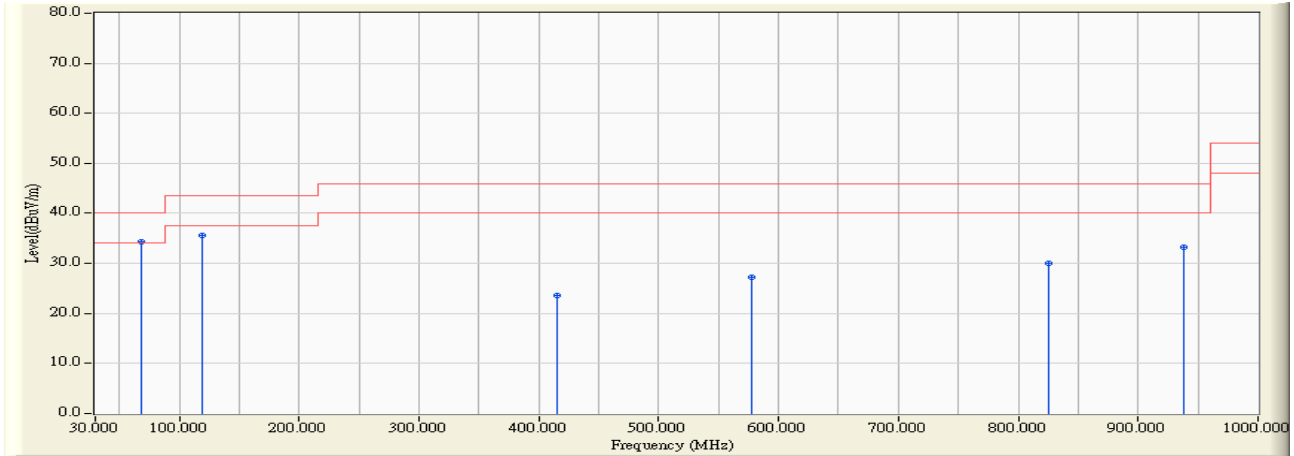


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	35.832	-4.761	37.021	32.260	-7.740	40.000	Quasi-Peak
2		119.419	-11.064	36.372	25.308	-18.192	43.500	Quasi-Peak
3		397.395	1.158	23.553	24.711	-21.289	46.000	Quasi-Peak
4		580.120	5.369	23.641	29.010	-16.990	46.000	Quasi-Peak
5		780.341	4.104	24.228	28.332	-17.668	46.000	Quasi-Peak
6		972.786	4.555	24.090	28.645	-25.355	54.000	Quasi-Peak

Note:

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

Site : Site 1	Time : 2007/03/22 - 23:29
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_30-1G(200605) - VERTICAL
Power : AC120V/60Hz	Note:TX-MODE2



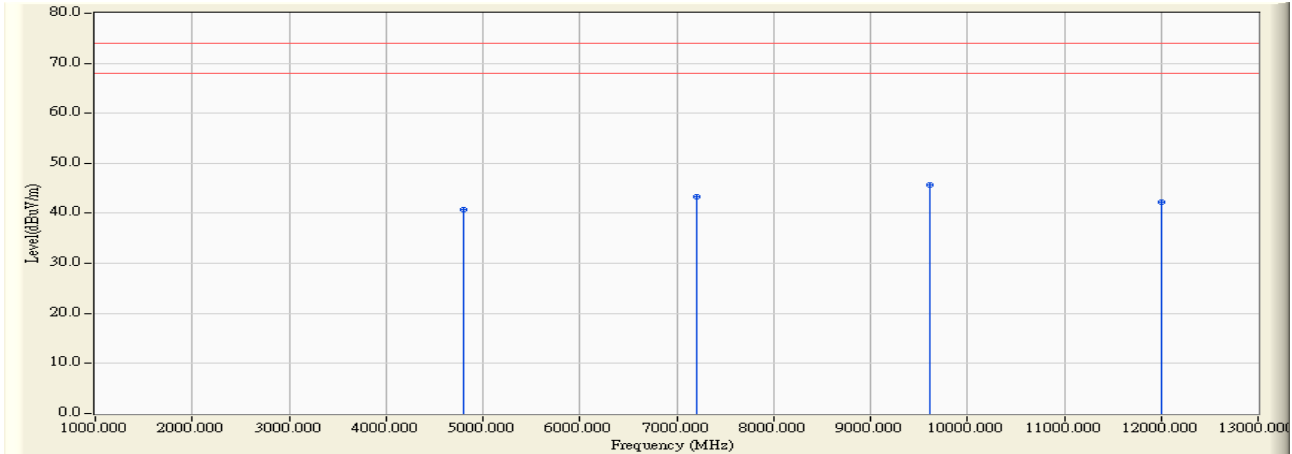
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.878	-7.810	42.217	34.407	-5.593	40.000	Quasi-Peak
2		119.419	-3.996	39.616	35.620	-7.880	43.500	Quasi-Peak
3		414.890	-0.338	23.931	23.593	-22.407	46.000	Quasi-Peak
4		578.176	4.216	23.067	27.283	-18.717	46.000	Quasi-Peak
5		825.050	5.259	24.790	30.049	-15.951	46.000	Quasi-Peak
6		937.796	9.020	24.231	33.251	-12.749	46.000	Quasi-Peak

Note:

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

Harmonic & Spurious:

Site : Site 1	Time : 2007/03/20 - 17:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC120V/60Hz	Note:CH00-TX

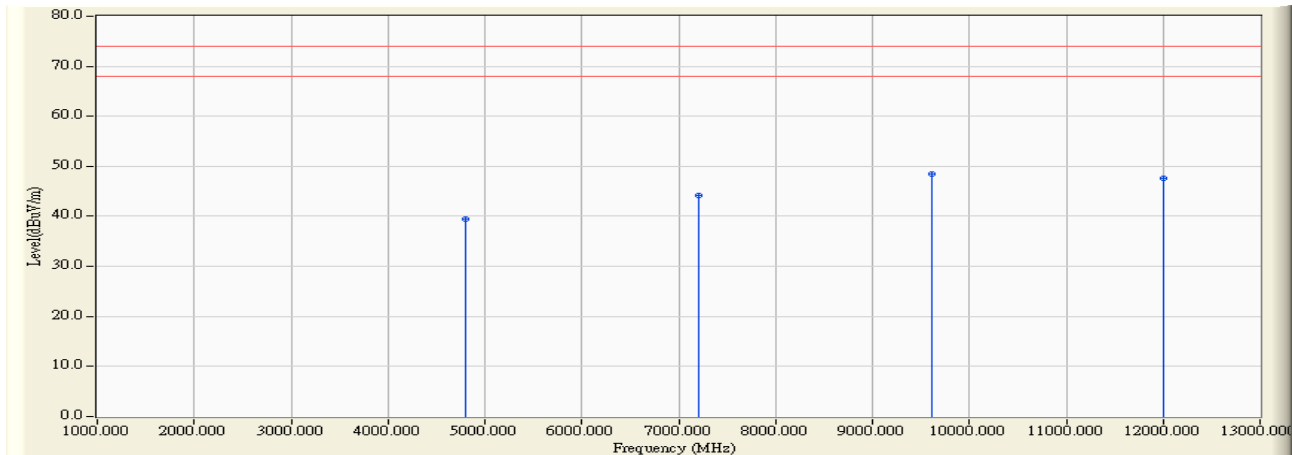


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4804.330	3.596	37.100	40.696	-33.304	74.000	74.000	PEAK
2	7205.880	8.691	34.590	43.281	-30.719	74.000	74.000	PEAK
3	* 9608.180	12.690	32.940	45.630	-28.370	74.000	74.000	PEAK
4	12010.030	11.028	31.290	42.317	-31.683	74.000	74.000	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.
4. 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.

Site : Site 1	Time : 2007/03/20 - 18:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC120V/60Hz	Note:CH00-TX

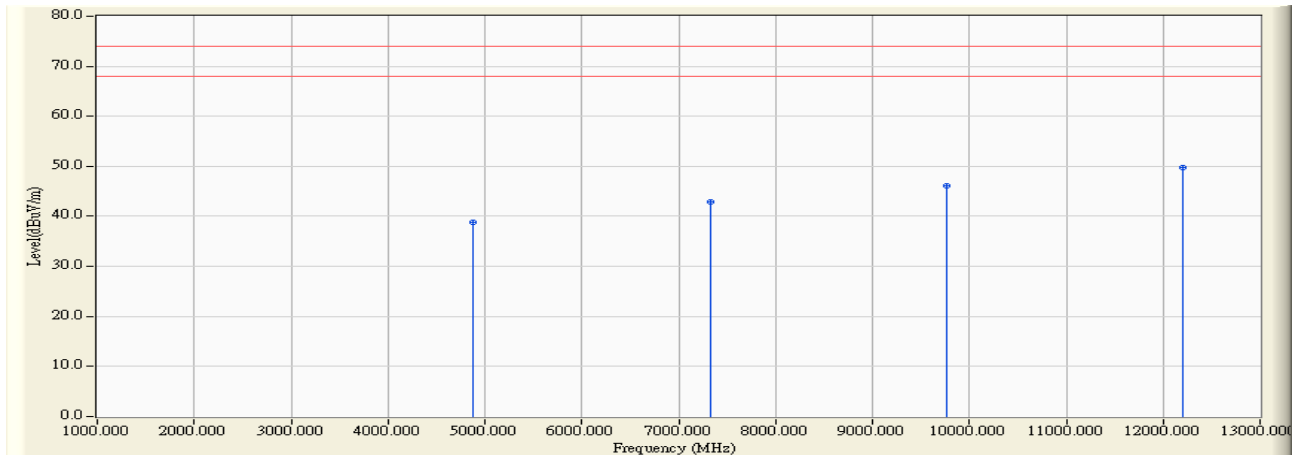


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4804.410	1.814	37.580	39.395	-34.605	74.000	54.00	PEAK
2	7206.110	8.635	35.480	44.115	-29.885	74.000	54.00	PEAK
3	* 9607.880	14.677	33.750	48.427	-25.573	74.000	54.00	PEAK
4	12010.110	16.608	30.900	47.508	-26.492	74.000	54.00	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.
4. 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.

Site : Site 1	Time : 2007/03/20 - 21:45
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC120V/60Hz	Note:CH39-TX

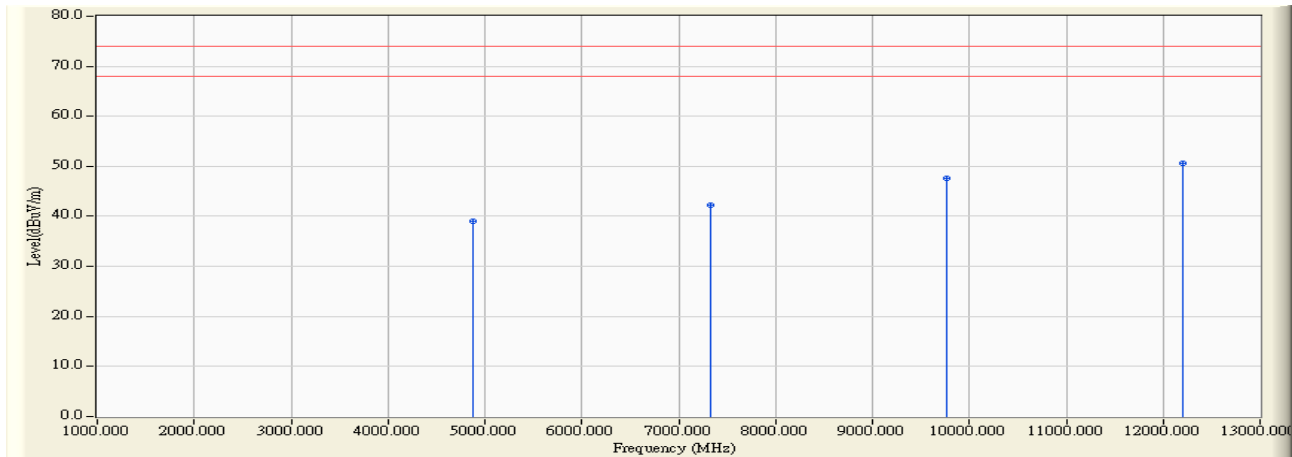


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4881.930	4.141	34.580	38.722	-35.278	74.000	54.00	PEAK
2	4884.930	4.163	34.580	38.743	-35.257	74.000	54.00	PEAK
3	7323.000	8.859	34.130	42.989	-31.011	74.000	54.00	PEAK
4	9764.010	13.218	32.920	46.138	-27.862	74.000	54.00	PEAK
5	* 12205.010	18.109	31.670	49.779	-24.221	74.000	54.00	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.
4. 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.

Site : Site 1	Time : 2007/03/20 - 21:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC120V/60Hz	Note:CH39-TX

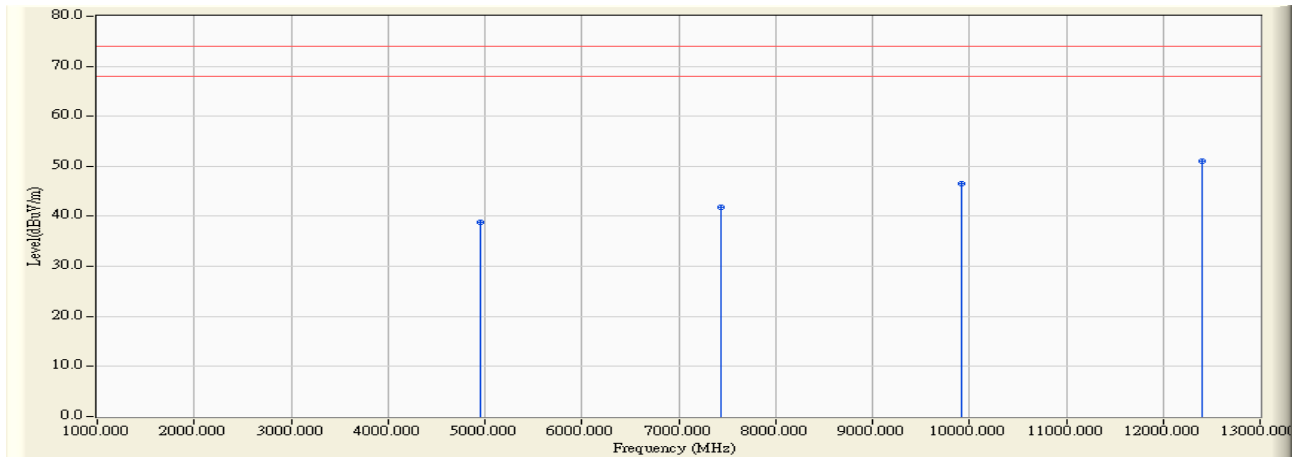


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4881.780	2.500	36.510	39.011	-34.989	74.000	54.00	PEAK
2	7323.030	8.859	33.480	42.339	-31.661	74.000	54.00	PEAK
3	9764.230	15.219	32.420	47.639	-26.361	74.000	54.00	PEAK
4	* 12205.050	19.567	31.150	50.717	-23.283	74.000	54.00	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.
4. 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.

Site : Site 1	Time : 2007/03/20 - 22:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - HORIZONTAL
Power : AC120V/60Hz	Note:CH78-TX

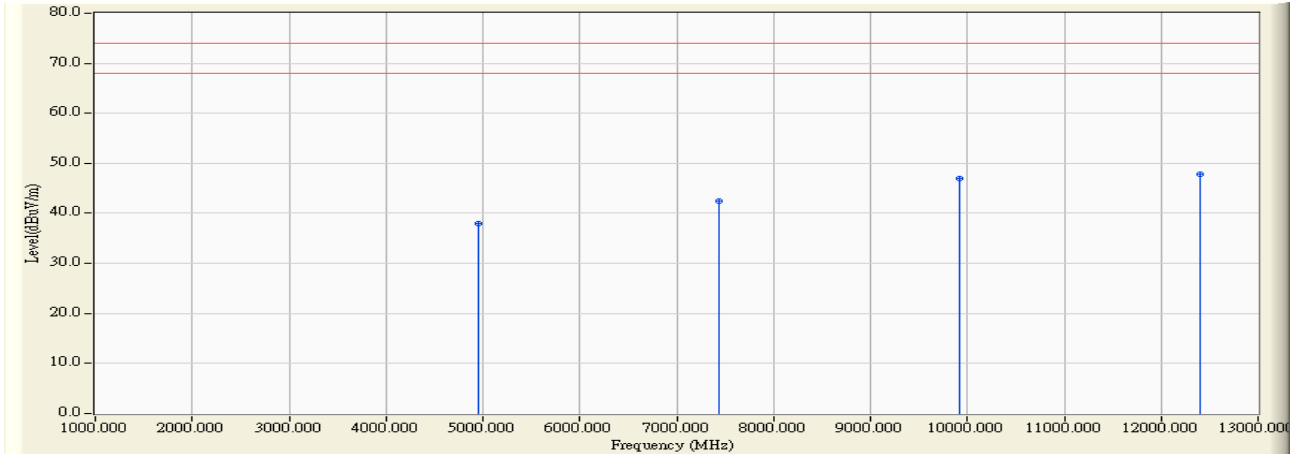


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4960.030	4.399	34.320	38.720	-35.280	74.000	54.00	PEAK
2	7440.050	9.017	32.910	41.927	-32.073	74.000	54.00	PEAK
3	9920.050	14.540	31.970	46.510	-27.490	74.000	54.00	PEAK
4	* 12400.030	20.665	30.360	51.025	-22.975	74.000	54.00	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.
4. 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.

Site : Site 1	Time : 2007/03/20 - 22:29
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : M-1000 Bluetooth GPS Receiver	Probe : FCC_RF_1G-18G(2005-3) - VERTICAL
Power : AC120V/60Hz	Note:CH78-TX



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Detector Type
1	4960.010	2.917	34.940	37.858	-36.142	74.000	54.00	PEAK
2	7439.940	9.017	33.450	42.466	-31.534	74.000	54.00	PEAK
3	9920.010	15.340	31.660	47.000	-27.000	74.000	54.00	PEAK
4	* 12400.050	16.165	31.760	47.925	-26.075	74.000	54.00	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.
4. 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.

5. Band Edge

5.1. Test Equipment

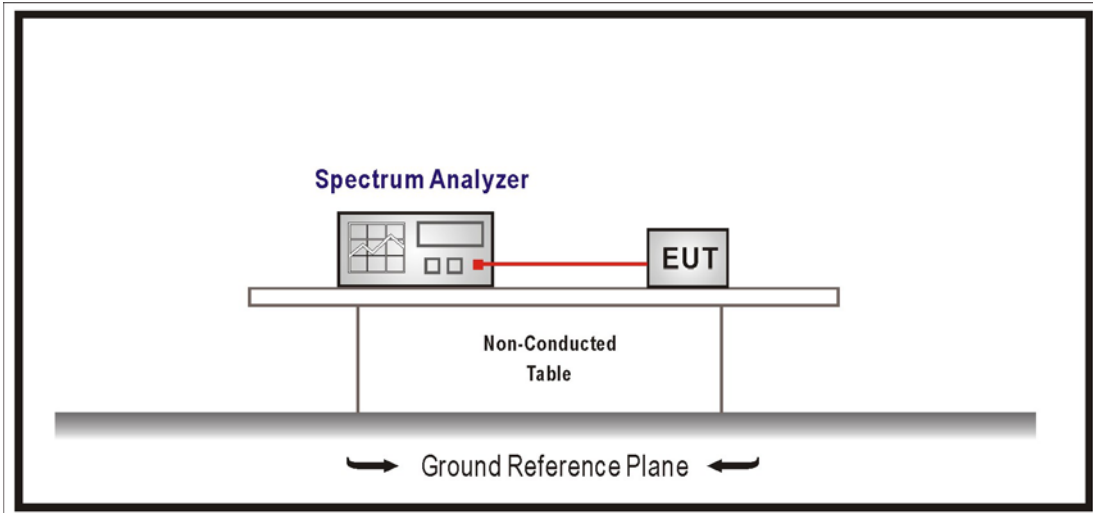
The following test equipment are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2007
2	No.1 OATS				Sep., 2006
RF Radiated Measurement:					
Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2006
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2007
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2006
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2006
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2006
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2006
7	No.1 OATS				Sep., 2006

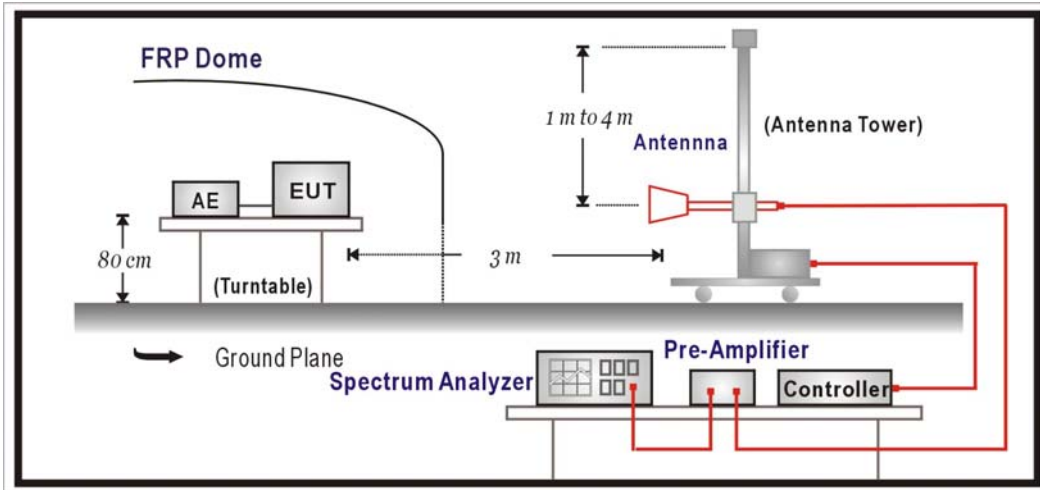
- Note:
1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

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 is 120 kHz, above 1GHz are 1 MHz.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2004

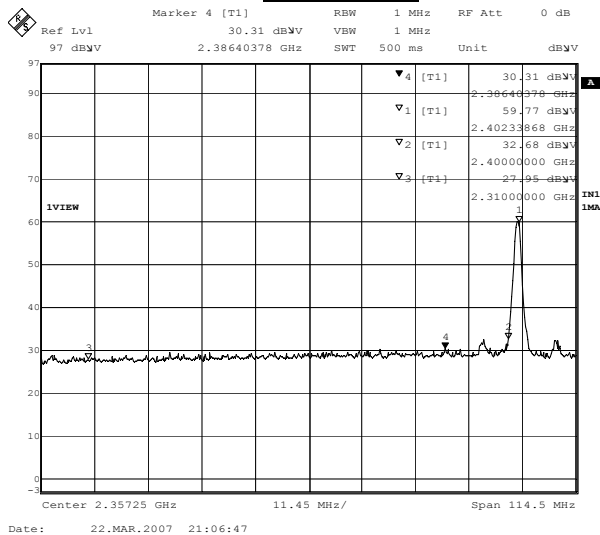
5.6. Test Result

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/22	Test Site	No.1 OATS

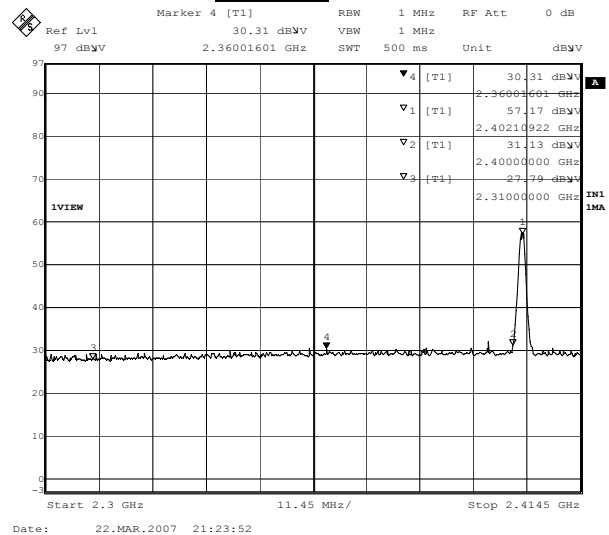
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Result
00(Horizontal)	2386.400	30.310	28.969	0.00	59.279	74.000	Pass
00(Vertical)	2360.010	30.310	27.270	0.00	57.580	74.000	Pass

Horizontal



Vertical



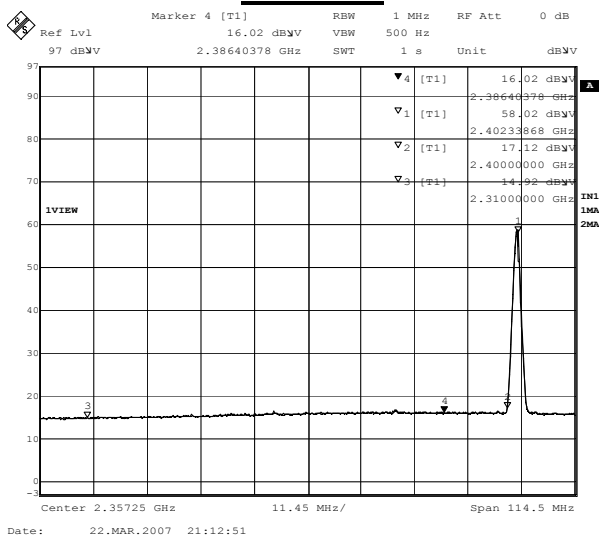
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/22	Test Site	No.1 OATS

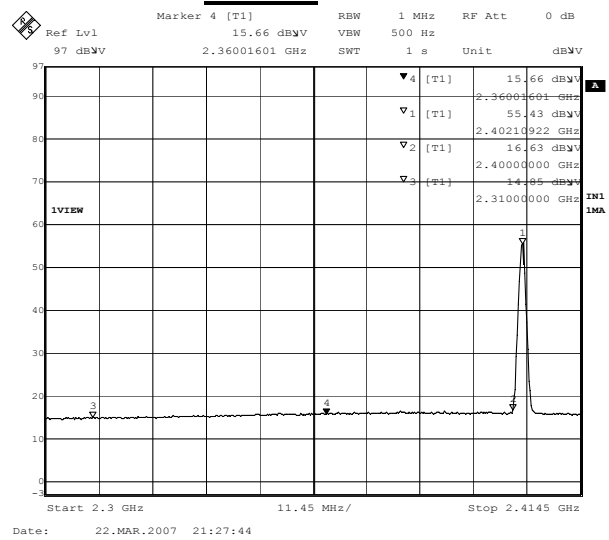
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Result
00(Horizontal)	2386.400	16.020	28.969	0.00	44.989	54.00	Pass
00(Vertical)	2360.010	15.660	27.270	0.00	42.930	54.00	Pass

Horizontal



Vertical



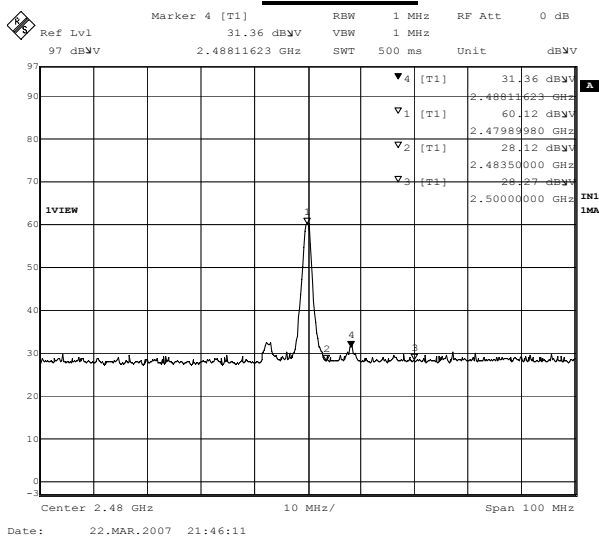
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/22	Test Site	No.1 OATS

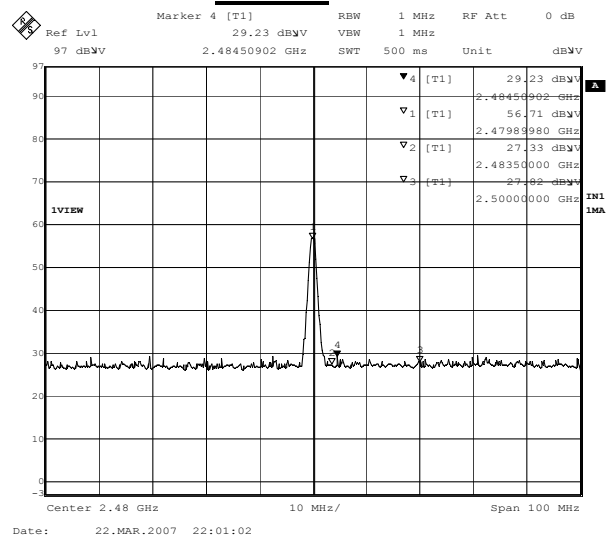
RF Radiated Measurement: (Peak Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Result
78(Horizontal)	2488.110	31.360	29.306	0.00	60.667	74.000	Pass
78(Vertical)	2484.500	29.230	27.696	0.00	56.926	74.000	Pass

Horizontal



Vertical



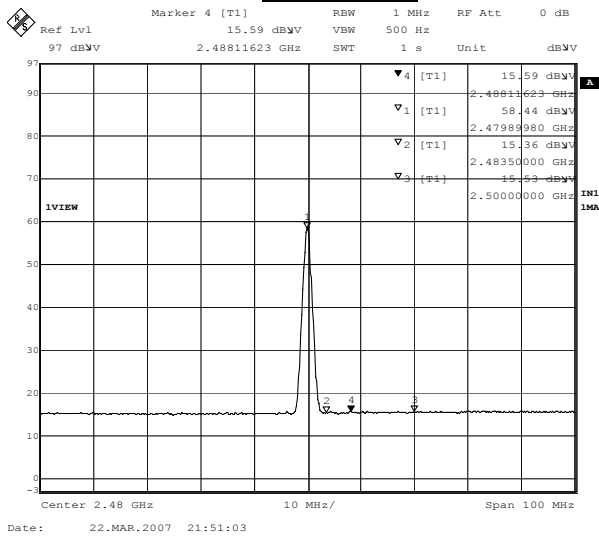
Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/22	Test Site	No.1 OATS

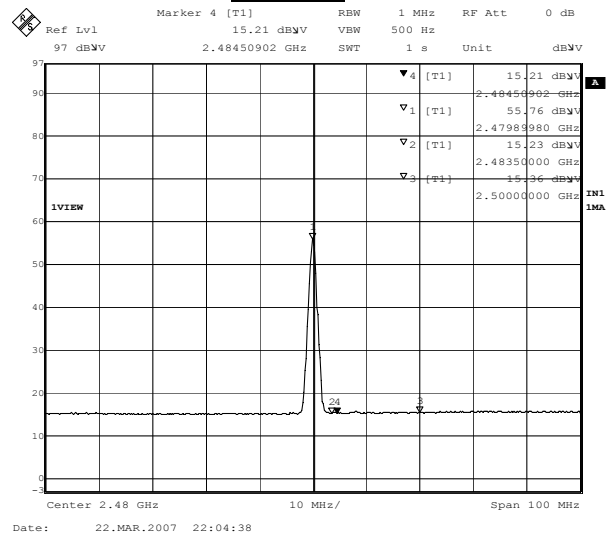
RF Radiated Measurement: (Average Detector)

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	PreAMP (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Result
78(Horizontal)	2488.110	15.590	29.306	0.00	44.897	54.000	Pass
78(Vertical)	2484.500	15.210	27.696	0.00	42.906	54.000	Pass

Horizontal



Vertical



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 of Number

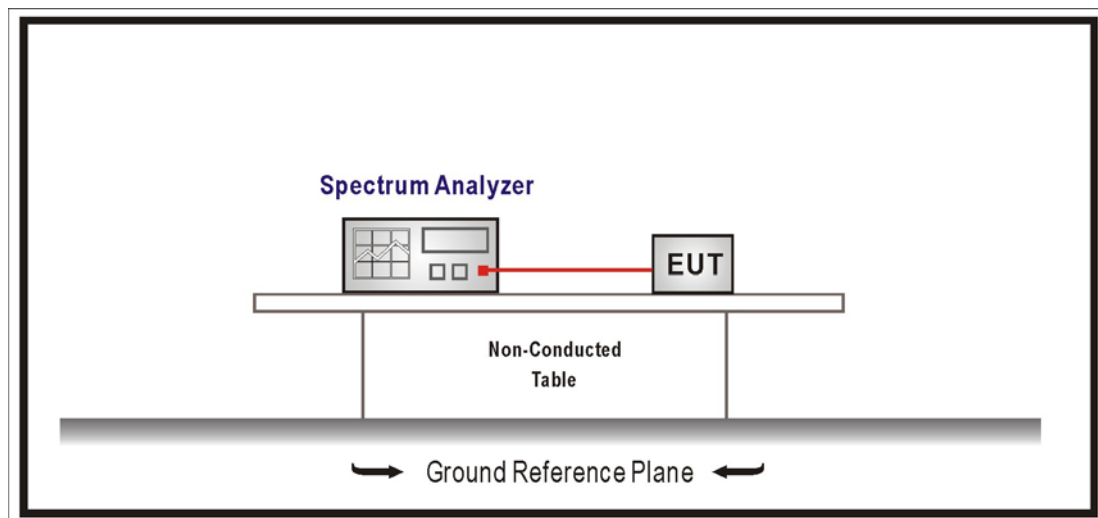
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 2400-2483.5 MHz bands, which use fewer than 75 hopping frequencies, may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

6.4. Test Specification

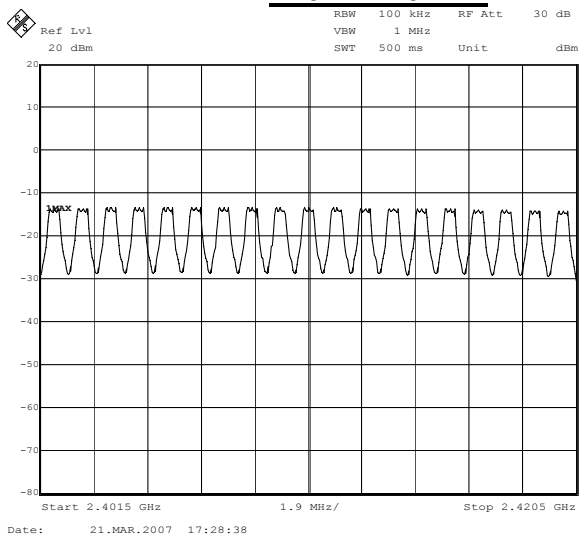
According to FCC Part 15 Subpart C Paragraph 15.247: 2004

6.5. Test Result

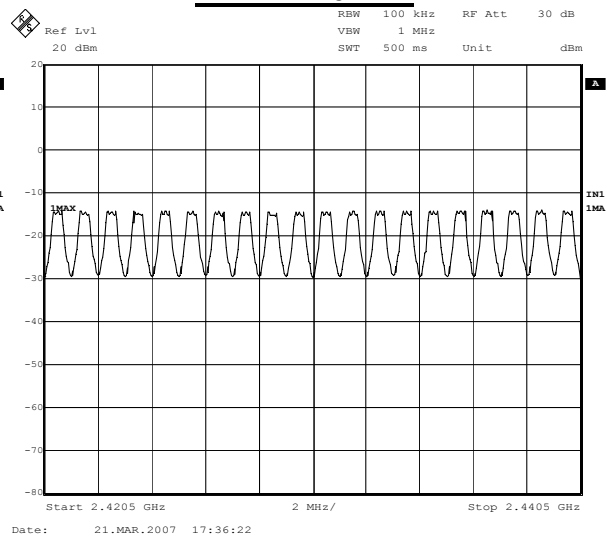
Product	M-1000 Bluetooth GPS Receiver		
Test Item	Channel of Number		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

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

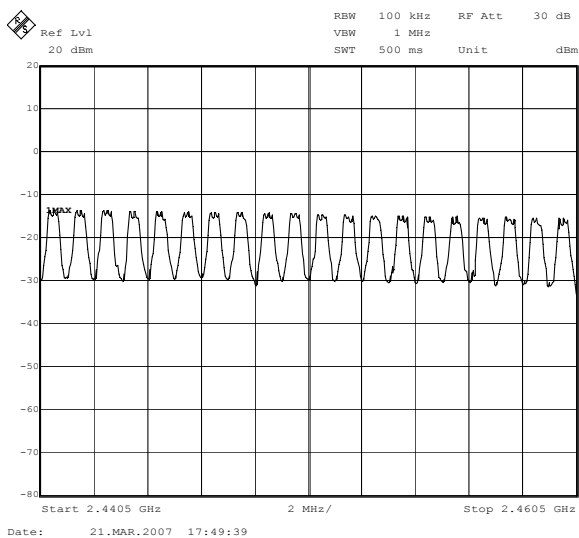
2402-2420MHz



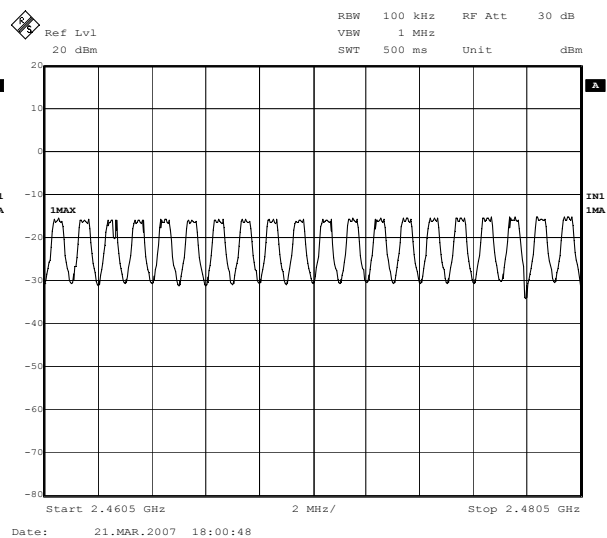
2421-2440MHz



2441-2460MHz



2461-2480MHz



7. Channel Separation

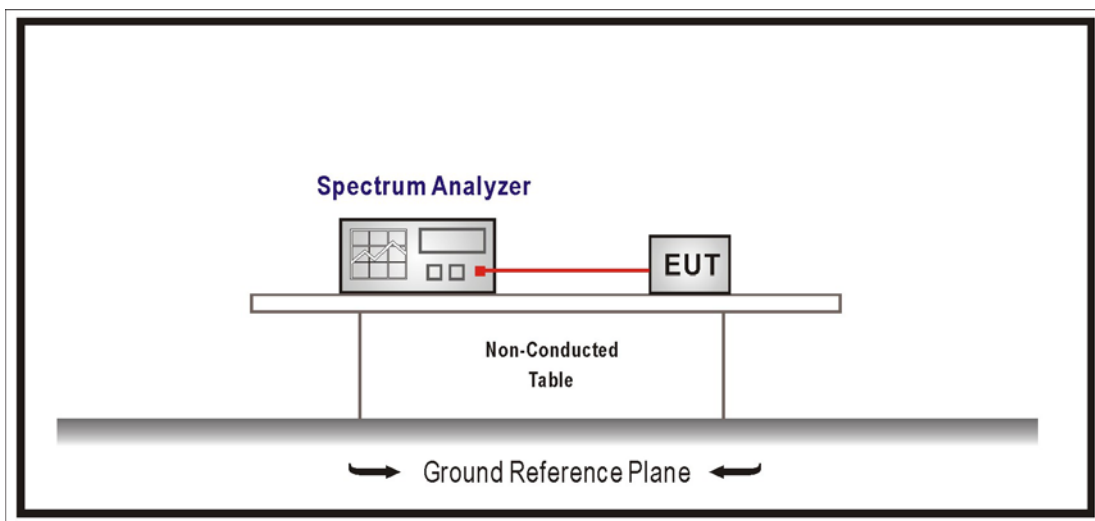
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

For 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.

7.4. Test Specification

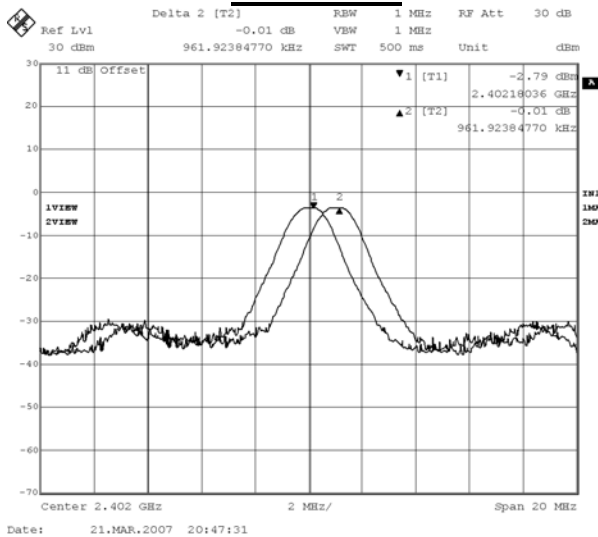
According to FCC Part 15 Subpart C Paragraph 15.247: 2004

7.5. Test Result

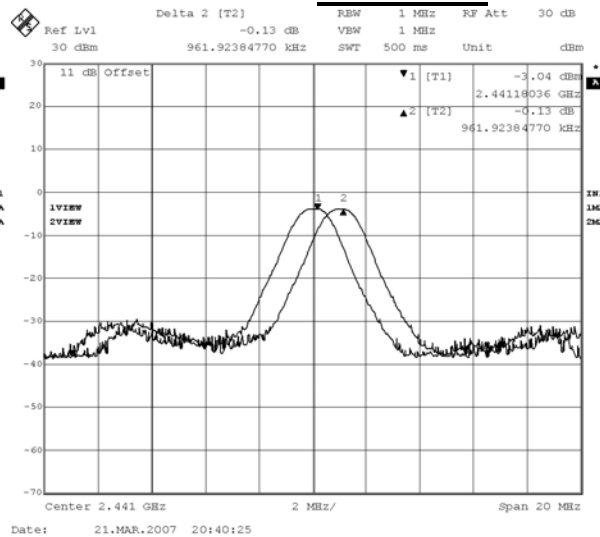
Product	M-1000 Bluetooth GPS Receiver		
Test Item	Channel Separation		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
00	2402.00	961	1000	Pass
39	2441.00	961	1000	Pass
78	2480.00	961	1000	Pass

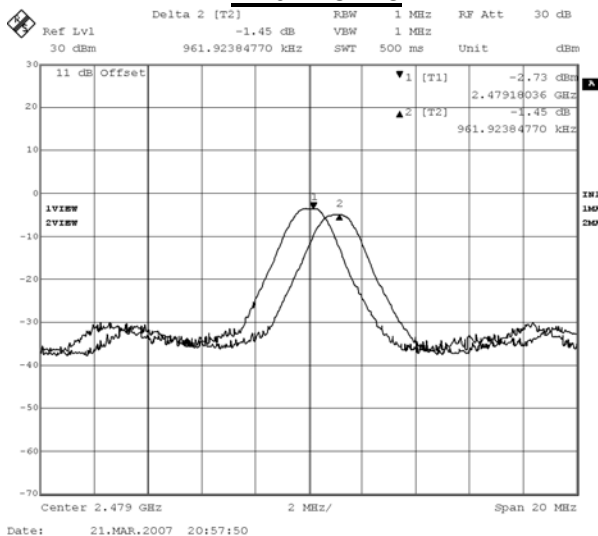
Channel 00



Channel 39



Channel 78



8. Occupied Bandwidth

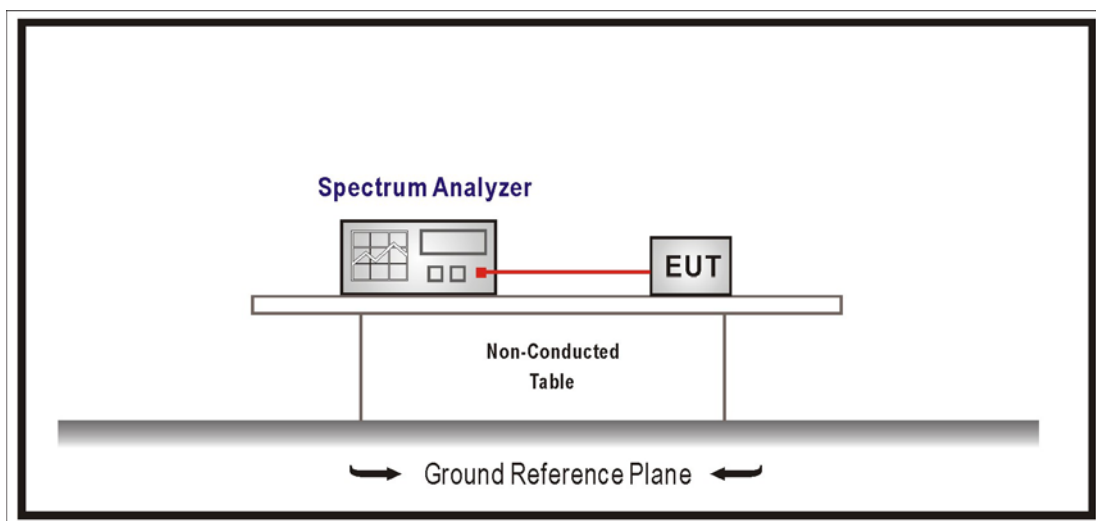
8.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

For 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.

8.4. Test Specification

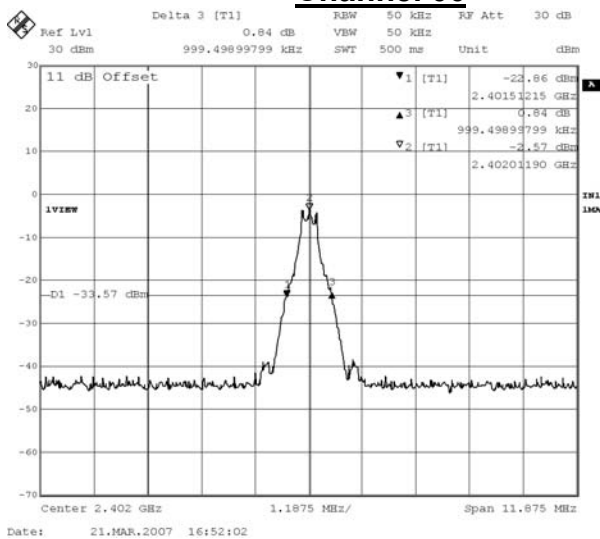
According to FCC Part 15 Subpart C Paragraph 15.247: 2004

8.5. Test Result

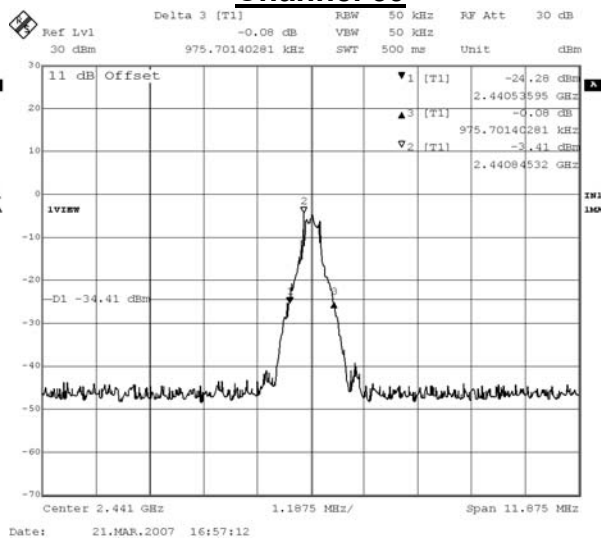
Product	M-1000 Bluetooth GPS Receiver		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402.00	0.999	1	Pass
39	2441.00	0.975	1	Pass
78	2480.00	0.975	1	Pass

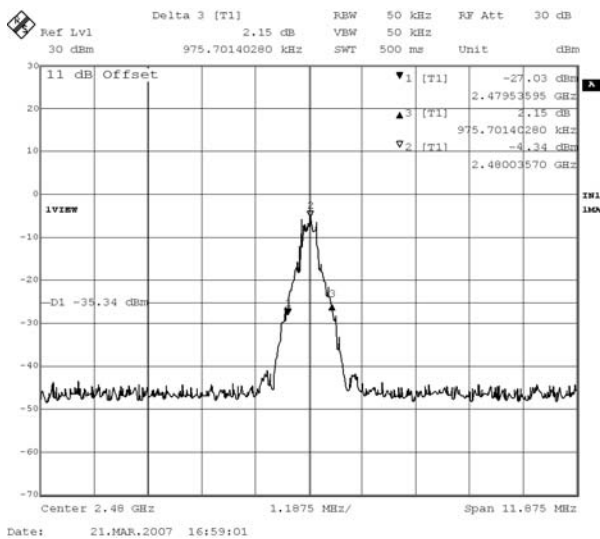
Channel 00



Channel 39



Channel 78



9. Dwell Time

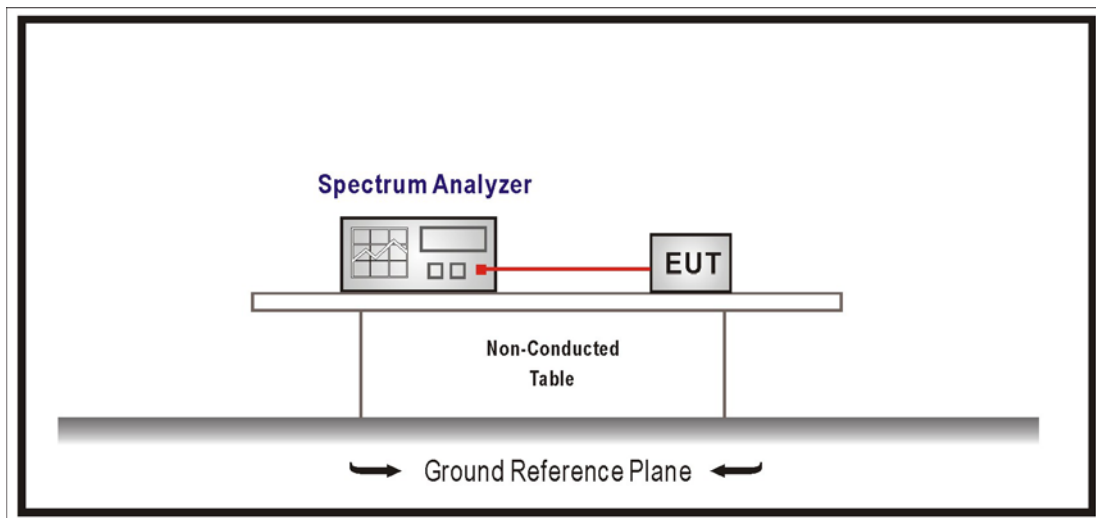
9.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2007
2	No.1 OATS			Sep., 2006

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. For frequency hopping systems operating in the 2400-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2004

9.5. Test Result

Product	Bluetooth		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit		
Date of Test	2007/03/21	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 1

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$ · Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.0004509 \times (800/79) \times 31.6 = 0.1442\text{sec}$ ◦

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$ · Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

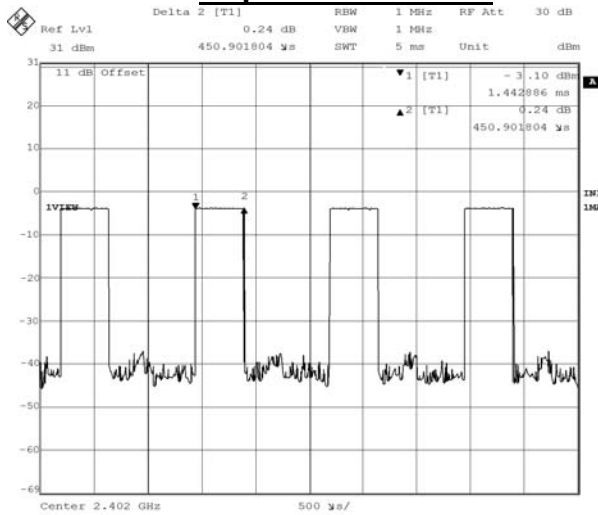
The Maximum Occupancy Time Within 31.6sec: $0.0004509 \times (800/79) \times 31.6 = 0.1442\text{sec}$ ◦

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$ · Hopping Times Within 1sec: $16/20\text{msec} = 800/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.0004509 \times (800/79) \times 31.6 = 0.1442\text{sec}$ ◦

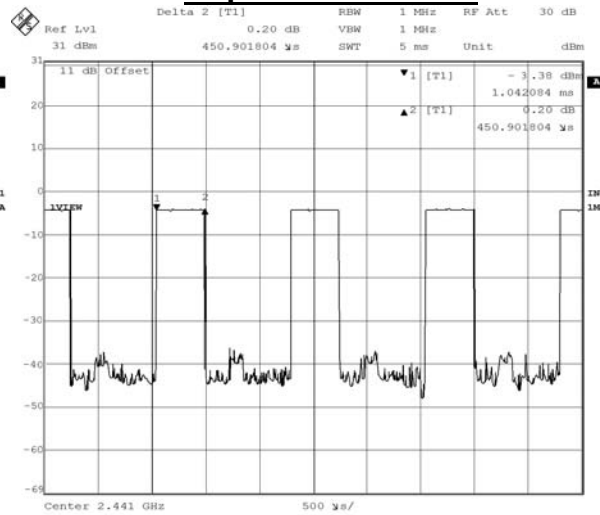
Test Result: The Average Occupancy Time of Each Highest · Middle and Lowest Channel Is Less Than 0.4sec · And Corresponds to The Standard ◦

Hop rate-2402MHz



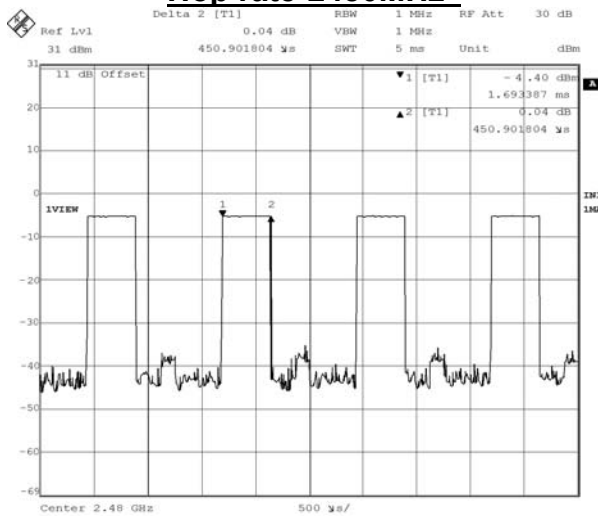
Date: 21.MAR.2007 19:24:31

Hop rate-2441MHz



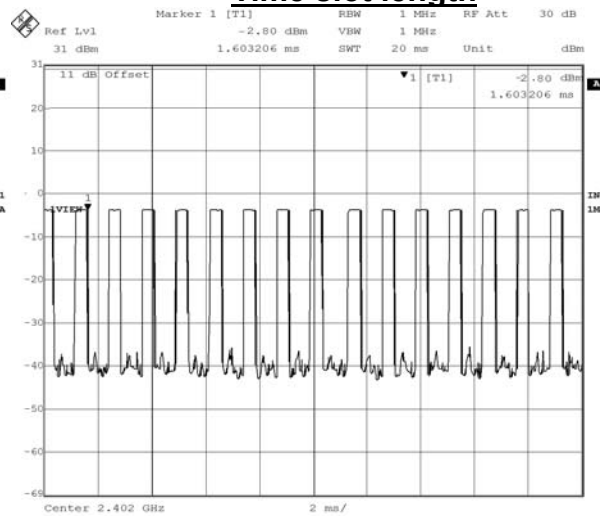
Date: 21.MAR.2007 19:27:30

Hop rate-2480MHz



Date: 21.MAR.2007 19:28:58

Time slot length



Date: 21.MAR.2007 18:56:47

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

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 3

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.001703 \times (400/79) \times 31.6 = 0.2724\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

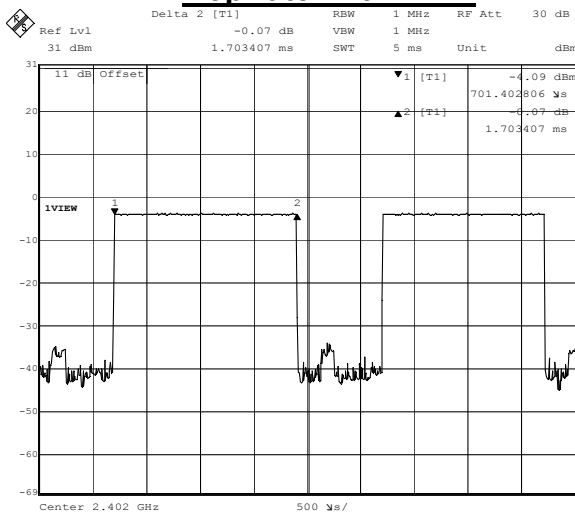
The Maximum Occupancy Time Within 31.6sec: $0.001713 \times (400/79) \times 31.6 = 0.2740\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $8/20\text{msec} = 400/\text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.001833 \times (400/79) \times 31.6 = 0.2932\text{sec}$.

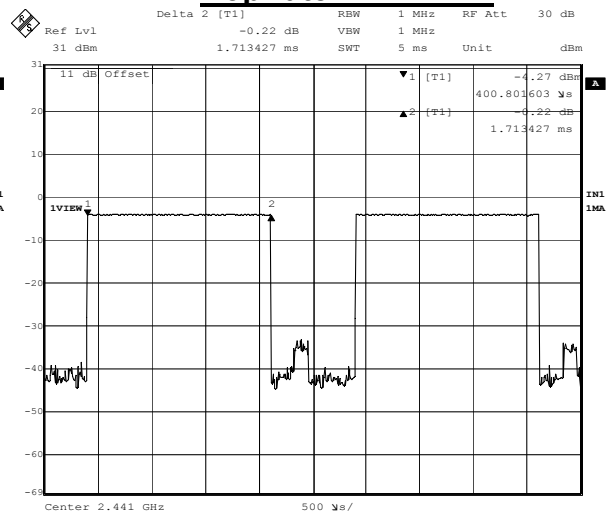
Test Result: The Average Occupancy Time of Each Highest , Middle and Lowest Channel Is Less Than 0.4sec , And Corresponds to The Standard .

Hop rate-2402MHz



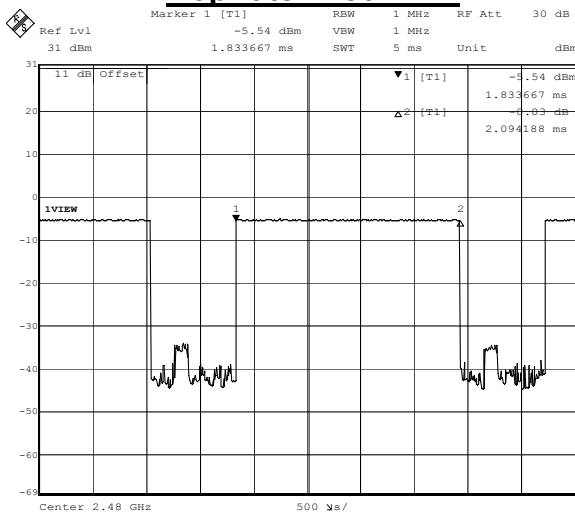
Date: 21.MAR.2007 22:47:17

Hop rate-2441MHz



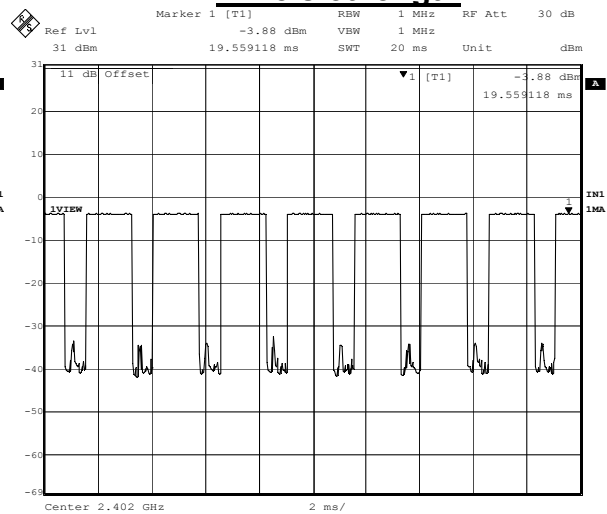
Date: 21.MAR.2007 22:51:12

Hop rate-2480MHz



Date: 21.MAR.2007 22:53:02

Time slot length



Date: 21.MAR.2007 22:48:09

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

Product	M-1000 Bluetooth GPS Receiver		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit (Adapter)		
Date of Test	2007/03/21	Test Site	No.1 OATS

Occupancy Time of Frequency Hopping System-DH 5

A) 2402MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

The Maximum Occupancy Time Within 31.6sec: $0.002965 \times (250/79) \times 31.6 = 0.2965\text{sec}$.

B) 2441MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

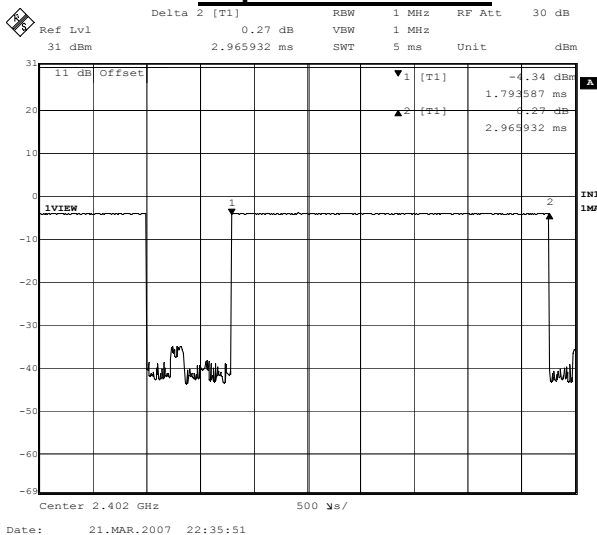
The Maximum Occupancy Time Within 31.6sec: $0.002955 \times (250/79) \times 31.6 = 0.2955\text{sec}$.

C) 2480MHz Test Time Period: $0.4 \times 79 = 31.6\text{sec}$, Hopping Times Within 1sec: $5/20\text{msec} = 250 / \text{sec}$

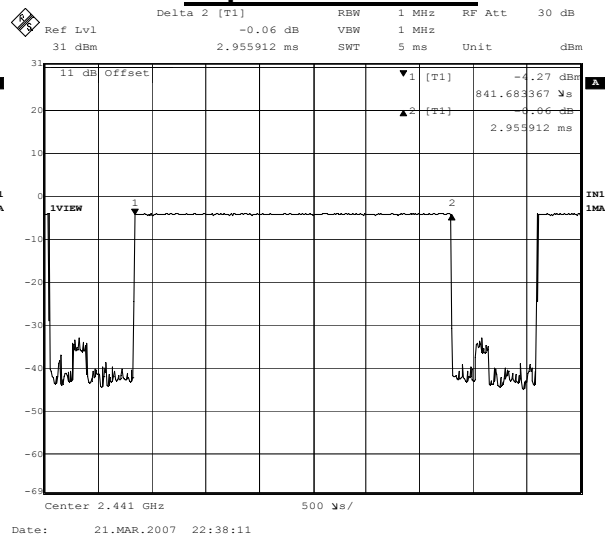
The Maximum Occupancy Time Within 31.6sec: $0.002955 \times (250/79) \times 31.6 = 0.2955\text{sec}$.

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

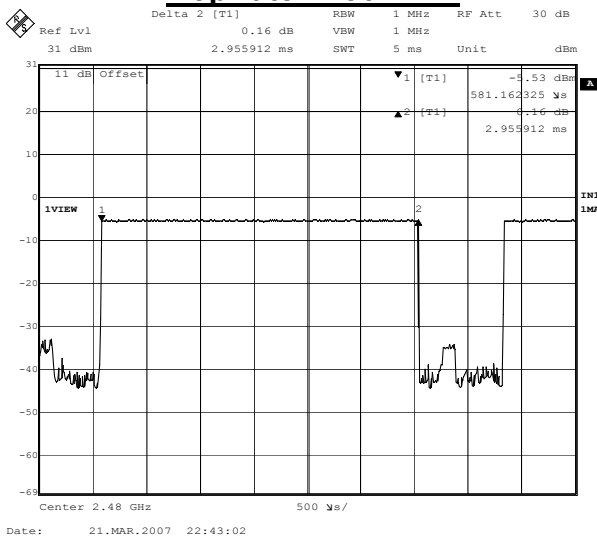
Hop rate-2402MHz



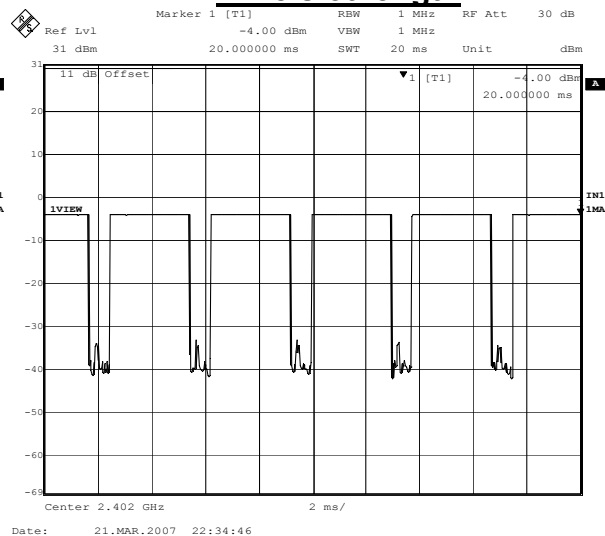
Hop rate-2441MHz



Hop rate-2480MHz



Time slot length



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