Test Report

Product Name	Tablet PC
Model No.	T8NY, InfoTablet 5500, xTablet® T8700
FCC ID.	FKGT8NY

Applicant	TWINHEAD INTERNATIONAL CORP.
Address	10F, 550 RUEIGUAN RD NEIHU, TAIPEI, Taiwan 114, ROC.

Date of Receipt	Sep. 20, 2007
Issued Date	Nov. 06, 2007
Report No.	079257R-RFUSP06V01

Test Report Certification

Issued Date: Nov. 06, 2007
Report No.: 079257R-RFUSP06V01

Product Name	Tablet PC
Applicant	TWINHEAD INTERNATIONAL CORP.
Address	10F, 550 RUEIGUAN RD NEIHU, TAIPEI, Taiwan 114, ROC.
Manufacturer	TWINHEAD INTERNATIONAL CORP.
Model No.	T8NY, InfoTablet 5500, xTablet® T8700
FCC ID.	FKGT8NY
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 5V
Trade Name	Twinhead
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2006 ANSI C63.4: 2003
Test Result	Complied

NVLAP Lab Code: 200533-0

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

Documented By : Rita Huang

(Engineering Adm. Specialist / Rita Huang)

Tested By : Tim Sung

(Engineer / T i m S u n g)

Approved By :

(Deputy Manager / Vincent Lin)

Testing Laboratory
0914

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Tablet PC
Trade Name	Twinhead
FCC ID.	FKGT8NY
Model No.	T8NY, InfoTablet 5500, xTablet® T8700
Frequency Range	2402 – 2480MHz
Channel Number	79
Type of Modulation	FHSS (GFSK/8DPSK)
Antenna Interface	PIFA
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Power Adapter	LI SHIN, 0335A2065 Cable out: Non-Shielded, 1.8m with one ferrite core bonded. Power cord: Shielded, 1.8m

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	wgt	TWT8NBLP101B	-1.21dBi for 2.4 GHz

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 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 Tablet PC with a built-in 2.4GHz BluetoothVer.2.0+EDR transceiver.
2. The EUT is including three models for different marketing requirement.
3. These tests were conducted on a sample for the purpose of demonstrating compliance of bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
4. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

1.2. Operational Description

The EUT is a Tablet PC with a built-in 2.4GHz BluetoothVer.2.0+EDR transceiver. The number of the channels is 79 in 2402-2480MHz. The device adapts the frequency hopping spread spectrum modulation. The antenna is connector-type and provides diversity function to improve the receiving function.

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 - 1Mbps (GFSK) Mode 2: Transmitter - 3Mbps (8DPSK)

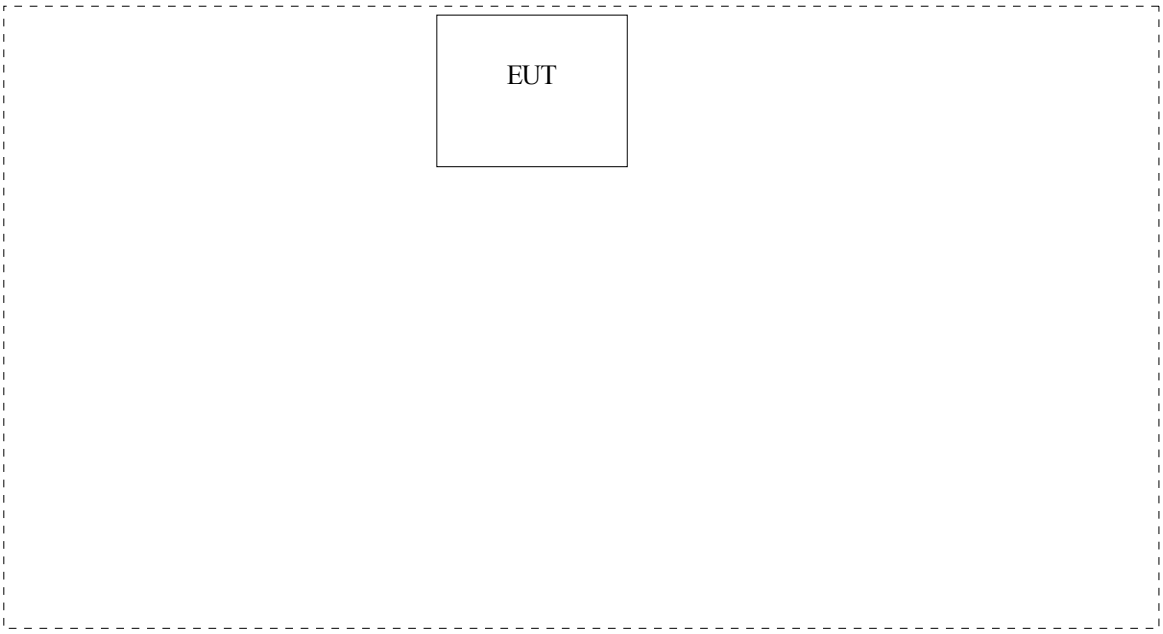
1.3. Tested System Details

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)	N/A	N/A	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

(1) Setup the EUT as shown in Section 1.4

(2) Execute BlueSuiteVer.1.2.1 on the EUT.

(3) Configure the test mode, the test channel, and the data rate.

(4) Press “OK” to start the continuous transmission.

(5) Verify that the EUT works 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: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2

Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation
Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

Testing Laboratory
0914

2. Conducted Emission

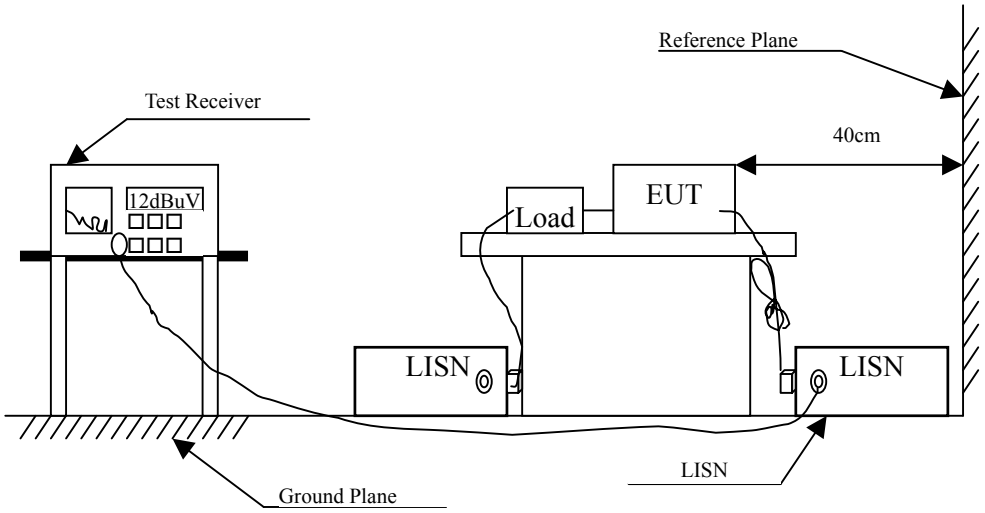
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2007	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one 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 refer 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 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.

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK) (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.195	0.682	47.290	47.972	-16.742	64.714
0.255	0.333	39.600	39.933	-23.067	63.000
0.325	0.300	32.590	32.890	-28.110	61.000
0.505	0.300	38.580	38.880	-17.120	56.000
18.064	1.060	41.590	42.650	-17.350	60.000
24.084	1.180	42.180	43.360	-16.640	60.000
Average					
0.195	0.682	35.310	35.992	-18.722	54.714
0.255	0.333	30.820	31.153	-21.847	53.000
0.325	0.300	22.780	23.080	-27.920	51.000
0.505	0.300	34.740	35.040	-10.960	46.000
18.064	1.060	41.480	42.540	-7.460	50.000
24.084	1.180	42.060	43.240	-6.760	50.000

Note:

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

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK) (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.189	0.300	48.400	48.700	-16.186	64.886
0.259	0.300	37.380	37.680	-25.206	62.886
0.319	0.300	34.200	34.500	-26.671	61.171
0.509	0.310	38.560	38.870	-17.130	56.000
18.064	0.900	41.570	42.470	-17.530	60.000
24.084	1.060	42.160	43.220	-16.780	60.000
Average					
0.189	0.300	38.100	38.400	-16.486	54.886
0.259	0.300	28.010	28.310	-24.576	52.886
0.319	0.300	26.910	27.210	-23.961	51.171
0.509	0.310	34.910	35.220	-10.780	46.000
18.064	0.900	41.480	42.380	-7.620	50.000
24.084	1.060	42.060	43.120	-6.880	50.000

Note:

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

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.189	0.725	47.630	48.355	-16.531	64.886
0.259	0.324	36.770	37.094	-25.792	62.886
0.319	0.300	34.040	34.340	-26.831	61.171
0.509	0.300	38.710	39.010	-16.990	56.000
18.064	1.060	41.610	42.670	-17.330	60.000
24.084	1.180	42.100	43.280	-16.720	60.000
Average					
0.189	0.725	37.580	38.305	-16.581	54.886
0.259	0.324	27.830	28.154	-24.732	52.886
0.319	0.300	27.010	27.310	-23.861	51.171
0.509	0.300	34.990	35.290	-10.710	46.000
18.064	1.060	41.480	42.540	-7.460	50.000
24.084	1.180	41.990	43.170	-6.830	50.000

Note:

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

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.189	0.300	47.490	47.790	-17.096	64.886
0.259	0.300	36.690	36.990	-25.896	62.886
0.319	0.300	34.120	34.420	-26.751	61.171
0.509	0.310	38.830	39.140	-16.860	56.000
18.064	0.900	41.630	42.530	-17.470	60.000
24.084	1.060	42.060	43.120	-16.880	60.000
Average					
0.189	0.300	37.580	37.880	-17.006	54.886
0.259	0.300	27.970	28.270	-24.616	52.886
0.319	0.300	27.110	27.410	-23.761	51.171
0.509	0.310	35.140	35.450	-10.550	46.000
18.064	0.900	41.560	42.460	-7.540	50.000
24.084	1.060	41.990	43.050	-6.950	50.000

Note:

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

3. Peak Power Output

3.1. Test Equipment

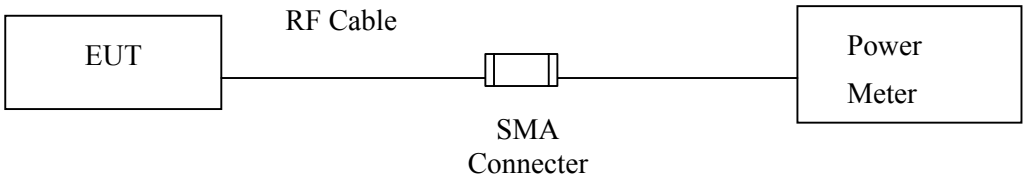
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2007
X	Power Sensor	Anritsu	MA2491A/034457	May, 2007

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

3.2. Test Setup



3.3. Limit

The maximum peak power shall be less 1Watt.

3.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : Tablet PC
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
Channel 00	2402.00	6.25dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	6.24dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	6.27dBm	1 Watt= 30 dBm	Pass

Product : Tablet PC
Test Item : Peak Power Output
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
Channel 00	2402.00	6.05dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	6.42dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	6.07dBm	1 Watt= 30 dBm	Pass

4. Radiated Emission

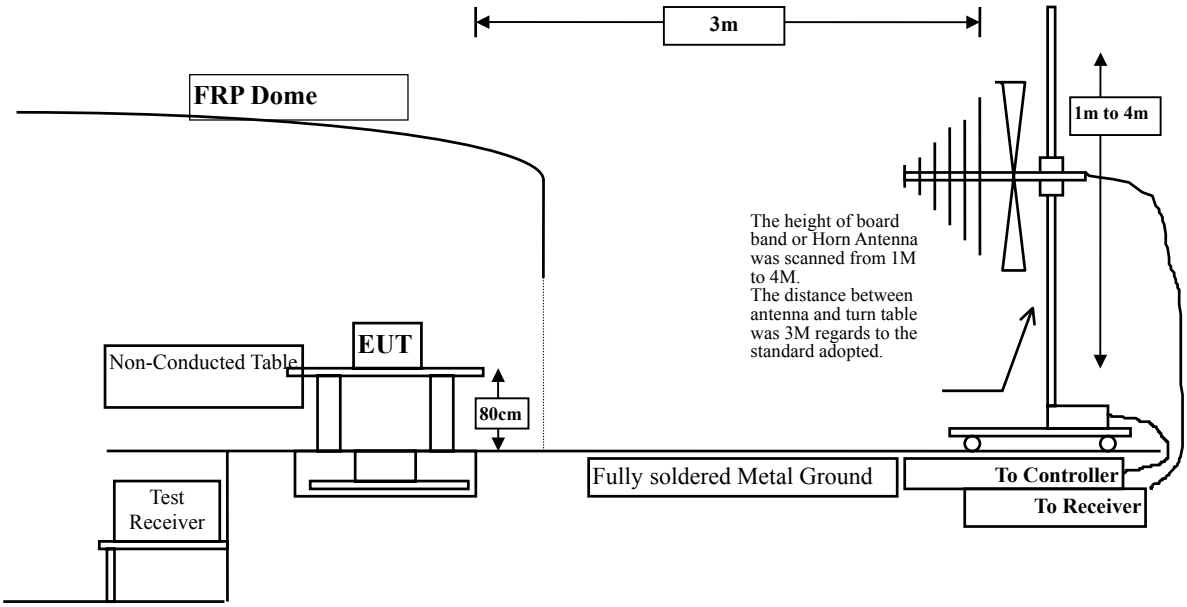
4.1. Test Equipment

The following test equipments are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☐Site # 1	Test Receiver	R & S	ESVS 10 / 834468/003	May, 2007
	Spectrum Analyzer	Advantest	R3162/ 00803480	May, 2007
	Pre-Amplifier	Advantest	BB525C/ 3307A01812	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	Sep., 2007
☐Site # 2	Test Receiver	R & S	ESCS 30 / 836858 / 022	May, 2007
	Spectrum Analyzer	Advantest	R3162 / 100803466	May, 2007
	Pre-Amplifier	Advantest	BB525C/3307A01814	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2705	May, 2007
	Horn Antenna	ETS	3115 / 0005-6160	Sep., 2007
	Pre-Amplifier	QTK	QTK-AMP-01/ 0001	May, 2007
☒Site # 3	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
	Spectrum Analyzer	HP	E4407B / US39440758	May, 2007
	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

4.2. 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 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 dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.
The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

4.5. Uncertainty

± 3.9 dB above 1GHz
± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4804.000	3.663	55.035	58.698	-15.302	74.000
7206.000	9.357	43.798	53.154	-20.846	74.000
9608.000	11.842	42.948	54.790	-19.210	74.000
Average Detector:					
4804.000	3.663	38.488	42.151	-11.849	54.000
7206.000	9.357	30.818	40.174	-13.826	54.000
9608.000	11.842	29.501	41.343	-12.657	54.000
Vertical					
Peak Detector:					
4804.000	3.663	60.545	64.208	-9.792	74.000
7206.000	9.357	44.321	53.677	-20.323	74.000
9608.000	11.842	45.181	57.023	-16.977	74.000
Average Detector:					
4804.000	3.663	43.021	46.683	-7.317	54.000
7206.000	9.357	31.701	41.057	-12.943	54.000
9608.000	11.842	30.873	42.715	-11.285	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4882.000	3.921	54.105	58.026	-15.974	74.000
7323.000	9.657	40.084	49.741	-24.259	74.000
9764.000	11.798	39.033	50.831	-23.169	74.000
Average Detector:					
4882.000	3.921	37.189	41.110	-12.890	54.000
7323.000	9.657	28.487	38.144	-15.856	54.000
9764.000	11.798	27.907	39.705	-14.295	54.000
Vertical Peak Detector:					
4882.000	3.921	60.463	64.384	-9.616	74.000
7323.000	9.657	40.059	49.716	-24.284	74.000
9764.000	11.798	41.291	53.089	-20.911	74.000
Average Detector:					
4882.000	3.921	42.643	46.564	-7.436	54.000
7323.000	9.657	29.129	38.786	-15.214	54.000
9764.000	11.798	29.328	41.126	-12.874	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4960.000	4.197	47.611	51.807	-22.193	74.000
7440.000	9.951	38.460	48.411	-25.589	74.000
9920.000	11.856	40.553	52.409	-21.591	74.000
Average Detector:					
4960.000	4.197	35.577	39.773	-14.227	54.000
7440.000	9.951	28.400	38.351	-15.649	54.000
9920.000	11.856	28.517	40.373	-13.627	54.000
Vertical Peak Detector:					
4960.000	4.197	55.645	59.841	-14.159	74.000
7440.000	9.951	39.029	48.980	-25.020	74.000
9920.000	11.856	42.833	54.689	-19.311	74.000
Average Detector:					
4960.000	4.197	39.544	43.740	-10.260	54.000
7440.000	9.951	30.563	40.514	-13.486	54.000
9920.000	11.856	29.939	41.795	-12.205	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4804.000	3.663	58.610	62.272	-11.728	74.000
7206.000	9.357	46.168	55.524	-18.476	74.000
9608.000	11.842	46.406	58.248	-15.752	74.000
Average Detector:					
4804.000	3.663	44.889	48.551	-5.449	54.000
7206.000	9.357	35.418	44.774	-9.226	54.000
9608.000	11.842	30.920	42.762	-11.238	54.000
Vertical					
Peak Detector:					
4804.000	3.663	59.391	63.053	-10.947	74.000
7206.000	9.357	40.165	49.521	-24.479	74.000
9608.000	11.842	45.723	57.565	-16.435	74.000
Average Detector:					
4804.000	3.663	44.524	48.186	-5.814	54.000
7206.000	9.357	32.058	41.414	-12.586	54.000
9608.000	11.842	34.327	46.169	-7.831	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4882.000	3.921	56.318	60.239	-13.761	74.000
7323.000	9.657	39.226	48.883	-25.117	74.000
9764.000	11.798	39.086	50.884	-23.116	74.000
Average Detector:					
4882.000	3.921	44.339	48.260	-5.740	54.000
7323.000	9.657	30.682	40.339	-13.661	54.000
9764.000	11.798	31.107	42.905	-11.095	54.000
Vertical Peak Detector:					
4882.000	3.921	60.089	64.010	-9.990	74.000
7323.000	9.657	40.003	49.660	-24.340	74.000
9764.000	11.798	44.593	56.391	-17.609	74.000
Average Detector:					
4882.000	3.921	44.675	48.596	-5.404	54.000
7323.000	9.657	28.482	38.139	-15.861	54.000
9764.000	11.798	29.875	41.673	-12.327	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2480MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4960.000	4.197	54.676	58.872	-15.128	74.000
7440.000	9.951	39.630	49.581	-24.419	74.000
9920.000	11.856	40.654	52.510	-21.490	74.000
Average Detector:					
4960.000	4.197	41.886	46.082	-7.918	54.000
7440.000	9.951	31.349	41.300	-12.700	54.000
9920.000	11.856	31.748	43.604	-10.396	54.000
Vertical Peak Detector:					
4960.000	4.197	56.971	61.167	-12.833	74.000
7440.000	9.951	40.274	50.225	-23.775	74.000
9920.000	11.856	46.019	57.875	-16.125	74.000
Average Detector:					
4960.000	4.197	44.304	48.500	-5.500	54.000
7440.000	9.951	30.494	40.445	-13.555	54.000
9920.000	11.856	32.025	43.881	-10.119	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz。
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:10Hz; Span:20MHz。
4. Emission Level = Reading Level + Correct Factor.
5. 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 : Tablet PC
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
136.700	12.421	20.985	33.406	-10.094	43.500
458.740	18.602	18.270	36.872	-9.128	46.000
480.080	18.759	17.126	35.885	-10.115	46.000
520.820	18.593	17.995	36.588	-9.412	46.000
540.220	19.517	18.672	38.189	-7.811	46.000
720.640	20.923	15.529	36.452	-9.548	46.000
Vertical					
136.700	11.473	22.436	33.909	-9.591	43.500
311.300	14.041	19.389	33.430	-12.570	46.000
340.100	14.458	21.624	36.082	-9.918	46.000
499.400	18.429	16.441	34.870	-11.130	46.000
679.900	20.135	15.412	35.547	-10.453	46.000
720.640	22.223	14.361	36.584	-9.416	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

Product : Tablet PC
Test Item : General Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
136.700	12.421	20.886	33.307	-10.193	43.500
181.320	9.540	24.040	33.580	-9.920	43.500
460.680	18.626	18.576	37.202	-8.798	46.000
499.480	18.228	19.303	37.531	-8.469	46.000
532.460	18.666	17.855	36.521	-9.479	46.000
782.640	21.511	14.531	36.042	-9.958	46.000
Vertical					
111.480	12.137	20.456	32.593	-10.907	43.500
299.660	13.749	17.031	30.780	-15.220	46.000
499.480	18.429	16.083	34.512	-11.488	46.000
540.220	20.196	12.150	32.346	-13.654	46.000
679.900	20.135	15.134	35.269	-10.731	46.000
720.674	22.223	13.087	35.310	-10.690	46.000

Note:

1. The reading levels below 1GHz are quasi-peak values.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions below 1GHz of the lowest, middle, highest frequency are pretested. Only the worst case is shown on the report.

5. Band Edge

5.1. Test Equipment

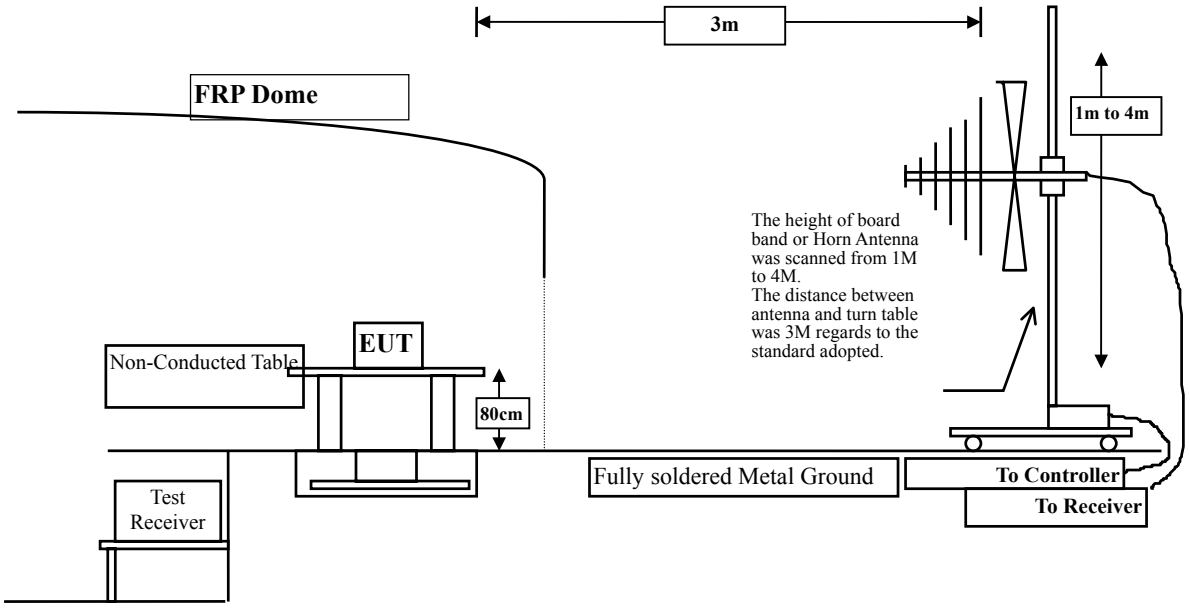
The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2007
X	Spectrum Analyzer	HP	E4407B / US39440758	May, 2007
X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2007
X	Horn Antenna	Schwarzbeck	BBHA9120D / 305, 306	July, 2007
X	Horn Antenna	Schwarzbeck	BBHA9170 / 208, 209	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2007
X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2007
X	Pre-Amplifier	HP	8449B / 3008A01123	July, 2007
Test Site		Site 3		

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup

RF Radiated Measurement:



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 EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

± 3.9 dB above 1GHz
± 3.8 dB below 1GHz

5.6. Test Result of Band Edge

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

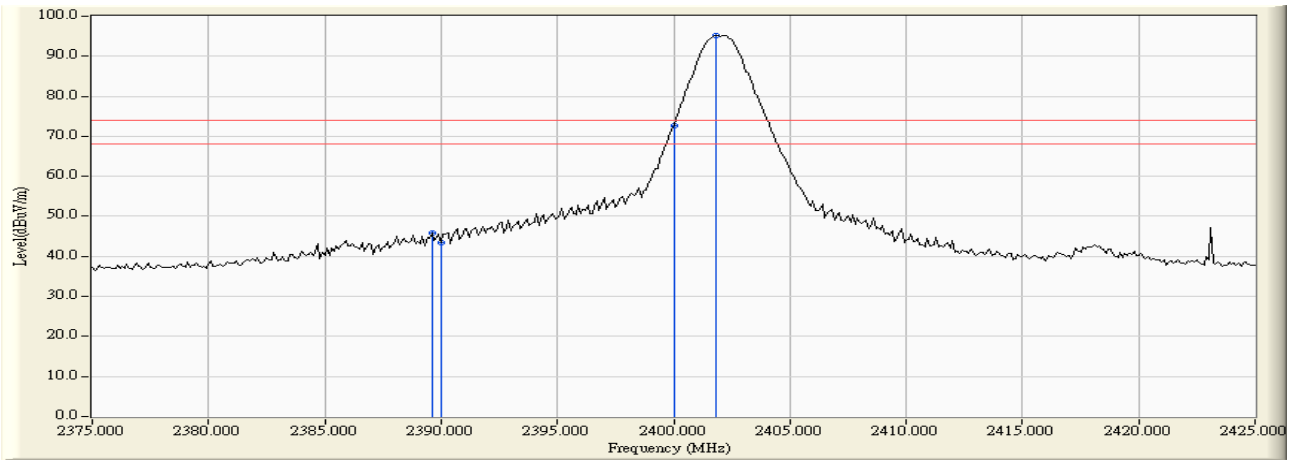
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2389.600	-2.379	48.125	45.746	74.00	54.00	Pass
00 (Peak)	2390.000	-2.378	45.942	43.565	74.00	54.00	Pass
00 (Peak)	2400.000	-2.328	75.063	72.735	74.00	54.00	Pass
00 (Peak)	2401.800	-2.319	97.410	95.091	74.00	54.00	Pass

Figure Channel 00: (Horizontal) (Peak)



Note:

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

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

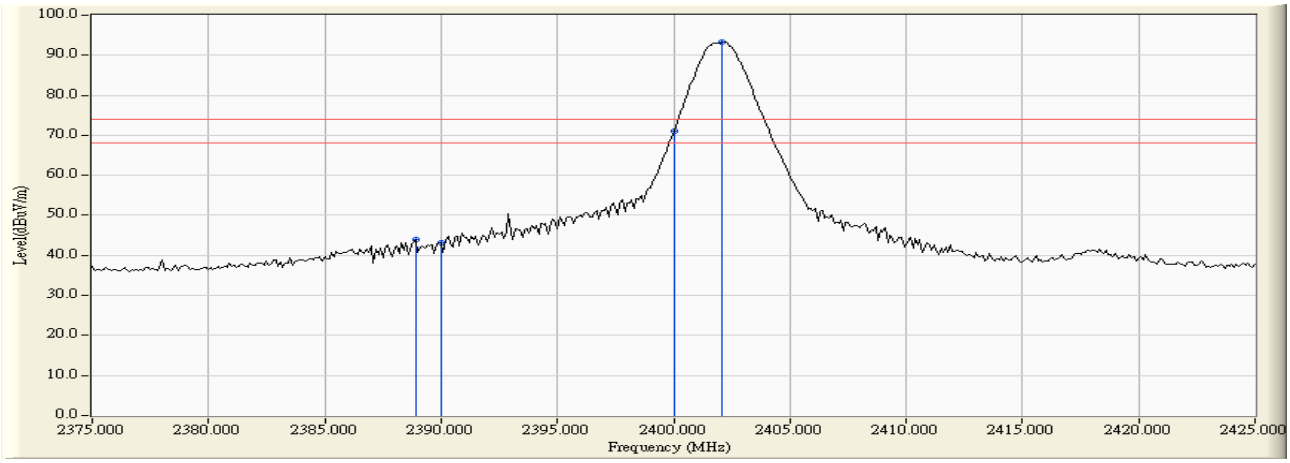
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2386.550	-2.394	51.132	48.738	74.00	54.00	Pass
00 (Peak)	2388.900	-2.382	46.481	44.098	74.00	54.00	Pass
00 (Peak)	2390.000	-2.378	45.623	43.246	74.00	54.00	Pass
00 (Peak)	2400.000	-2.328	73.504	71.176	74.00	54.00	Pass
00 (Peak)	2402.100	-2.317	95.513	93.196	74.00	54.00	Pass

Figure Channel 00: (Vertical) (Peak)



Note:

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

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

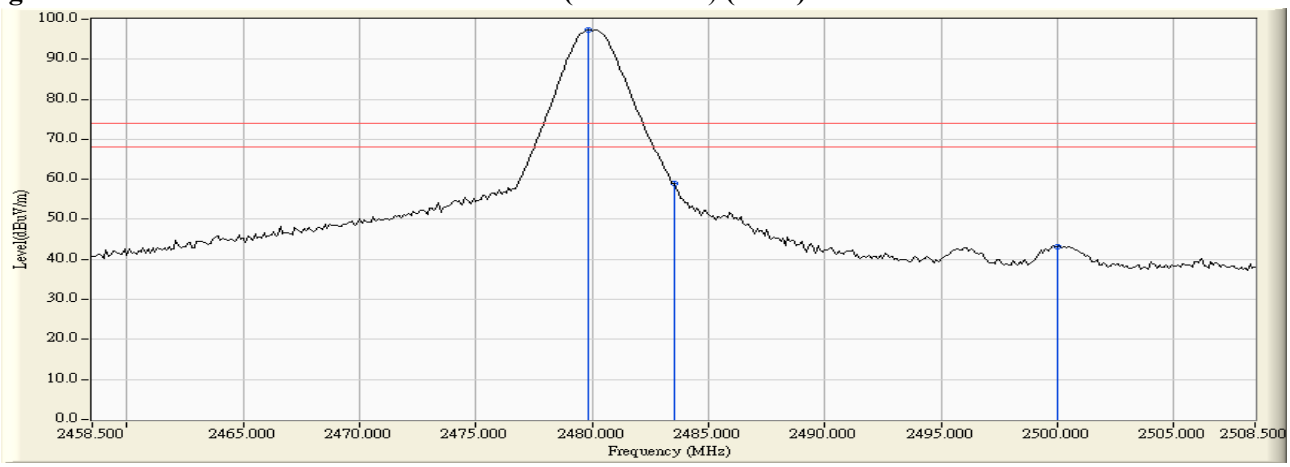
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

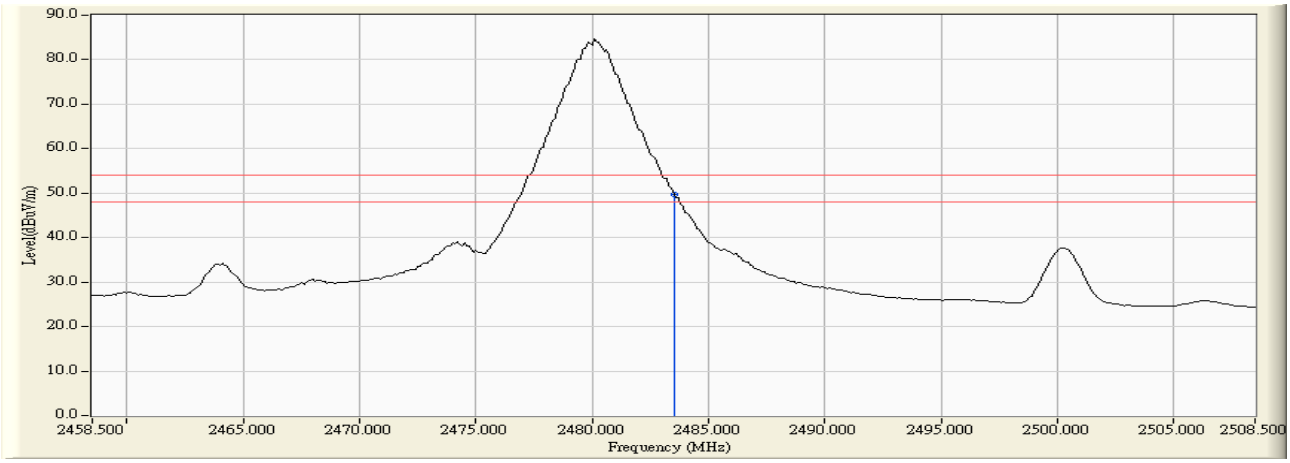
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2479.800	-1.952	99.167	97.215	74.00	54.00	Pass
78(Peak)	2483.500	-1.937	60.947	59.010	74.00	54.00	Pass
78(Peak)	2500.000	-1.886	44.964	43.078	74.00	54.00	Pass
78(Average)	2483.500	-1.937	51.572	49.635	74.00	54.00	Pass

Figure Channel 78: (Horizontal) (Peak)



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Figure Channel 78: (Horizontal) (Average)



Note:
RBW=1MHz, VBW=300Hz, Sweep Time=500ms.

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

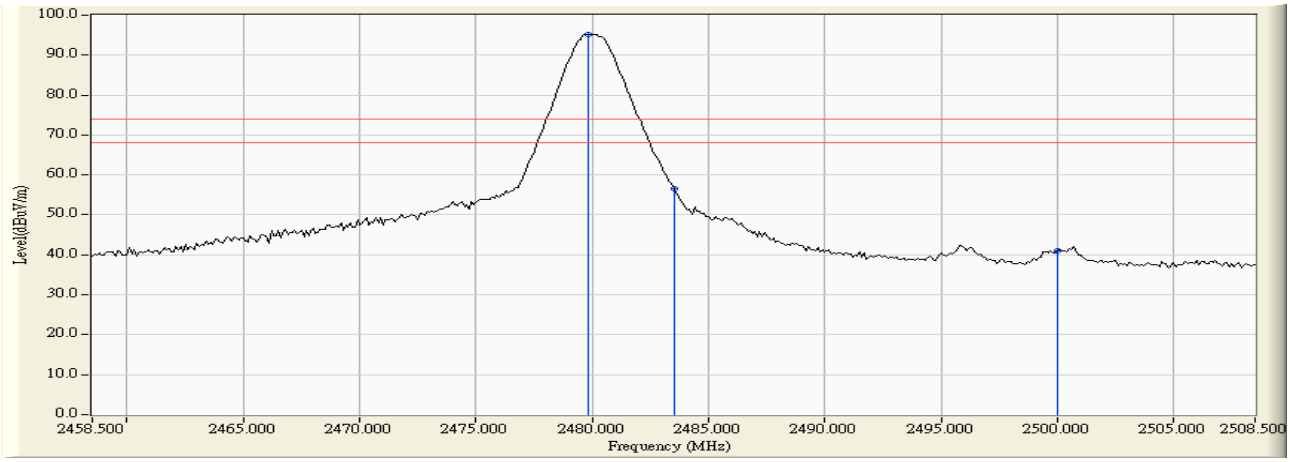
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

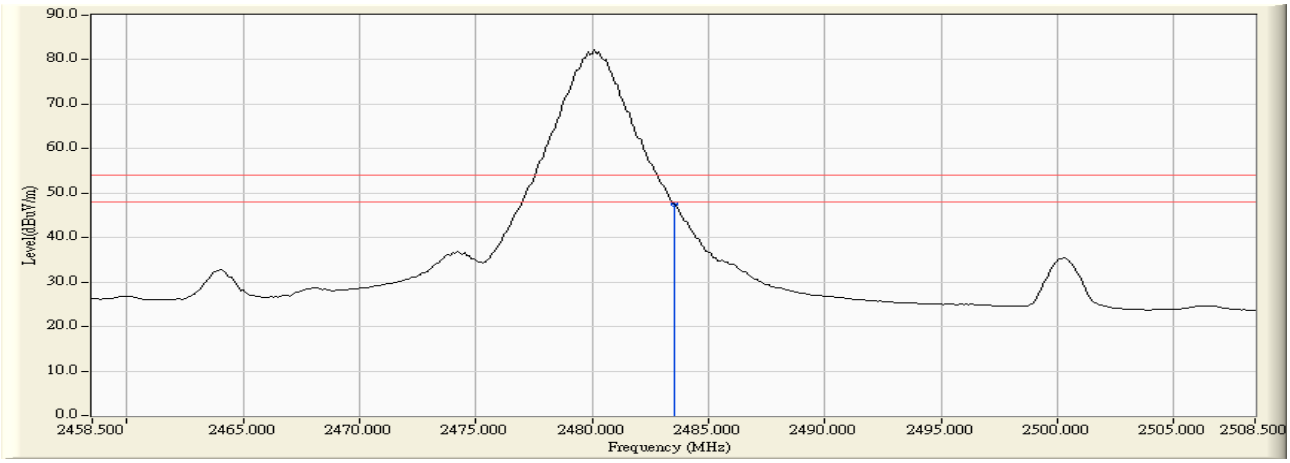
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2479.800	-1.952	97.171	95.219	74.00	54.00	Pass
78(Peak)	2483.500	-1.937	58.486	56.549	74.00	54.00	Pass
78(Peak)	2500.000	-1.886	42.817	40.931	74.00	54.00	Pass
78(Average)	2483.500	-1.937	49.582	47.645	74.00	54.00	Pass

Figure Channel 78: (Vertical) (Peak)



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

Figure Channel 78: (Vertical) (Average)



Note:RBW=1MHz, VBW=300Hz, 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 : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

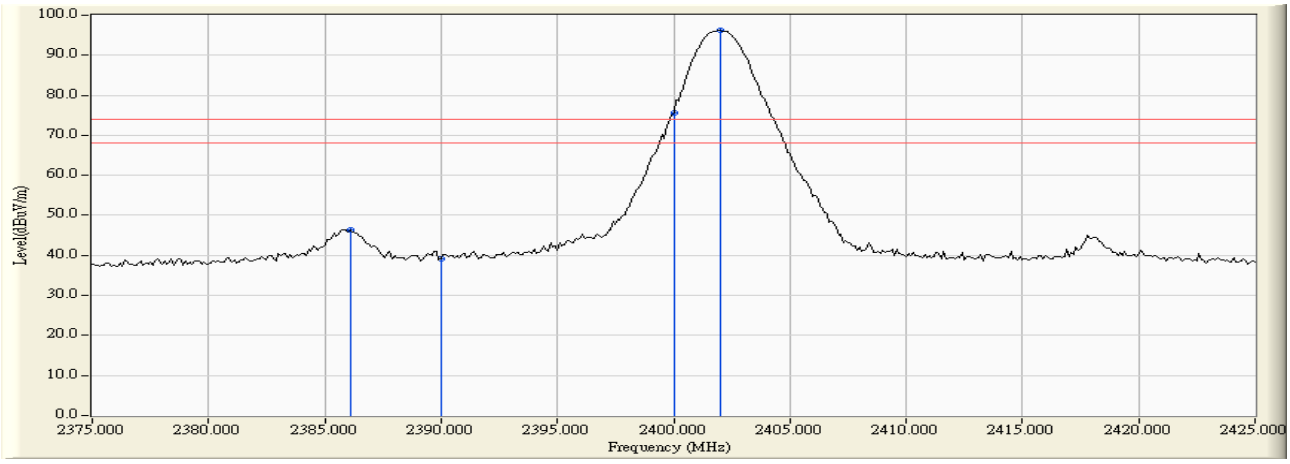
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2386.100	-2.397	48.672	46.276	74.00	54.00	Pass
00 (Peak)	2390.000	-2.378	41.625	39.248	74.00	54.00	Pass
00 (Peak)	2400.000	-2.328	77.842	75.514	74.00	54.00	Pass
00 (Peak)	2402.000	-2.318	98.544	96.226	74.00	54.00	Pass

Figure Channel 00: (Horizontal) (Peak)



Note:

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

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

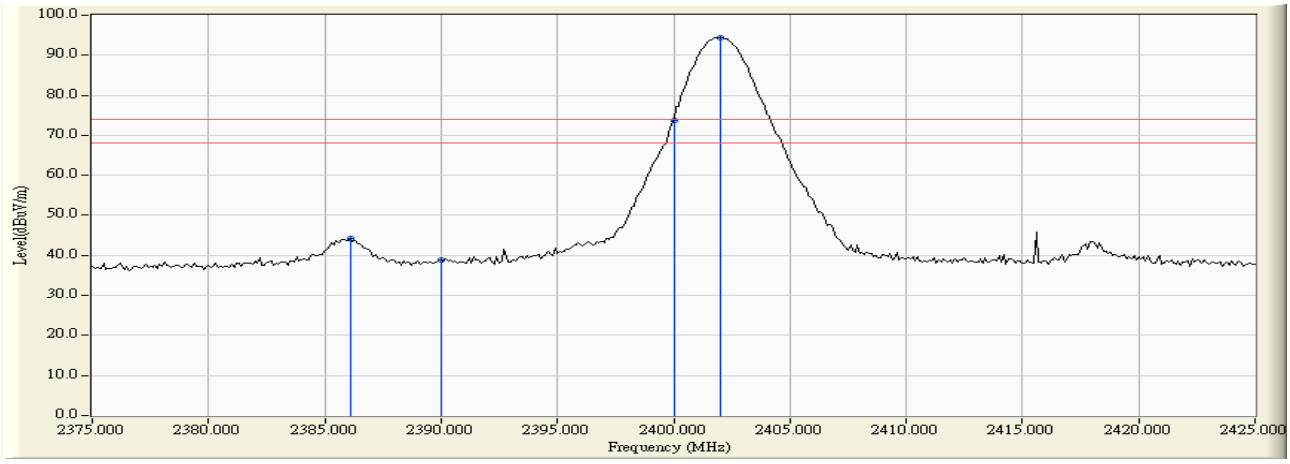
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2386.100	-2.397	46.687	44.291	74.00	54.00	Pass
00 (Peak)	2390.000	-2.378	41.298	38.921	74.00	54.00	Pass
00 (Peak)	2400.000	-2.328	76.079	73.751	74.00	54.00	Pass
00 (Peak)	2402.000	-2.318	96.770	94.452	74.00	54.00	Pass

Figure Channel 00: (Vertical) (Peak)



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

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2480MHz)

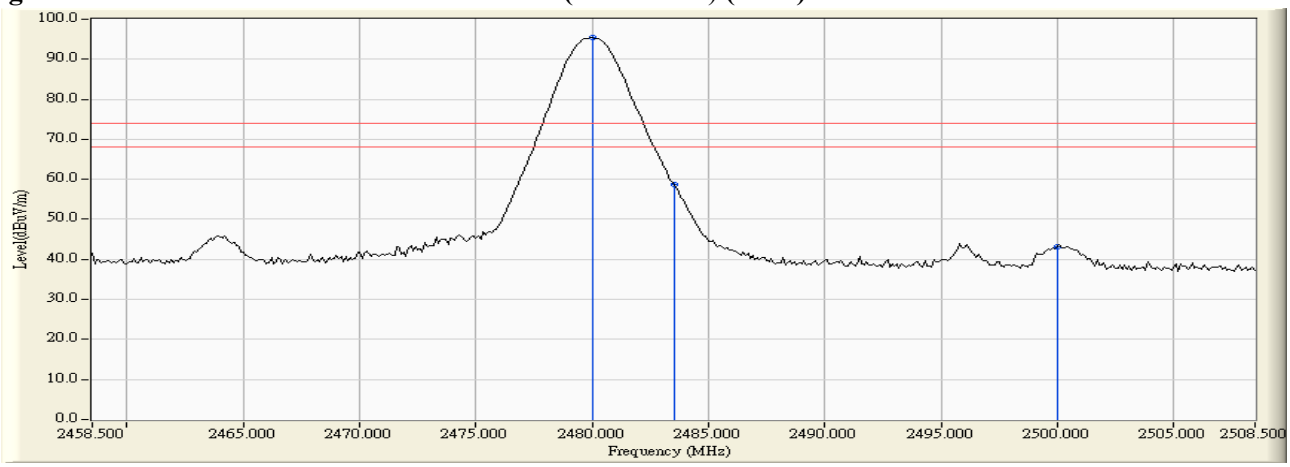
RF Radiated Measurement:

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

RF Radiated Measurement (Horizontal):

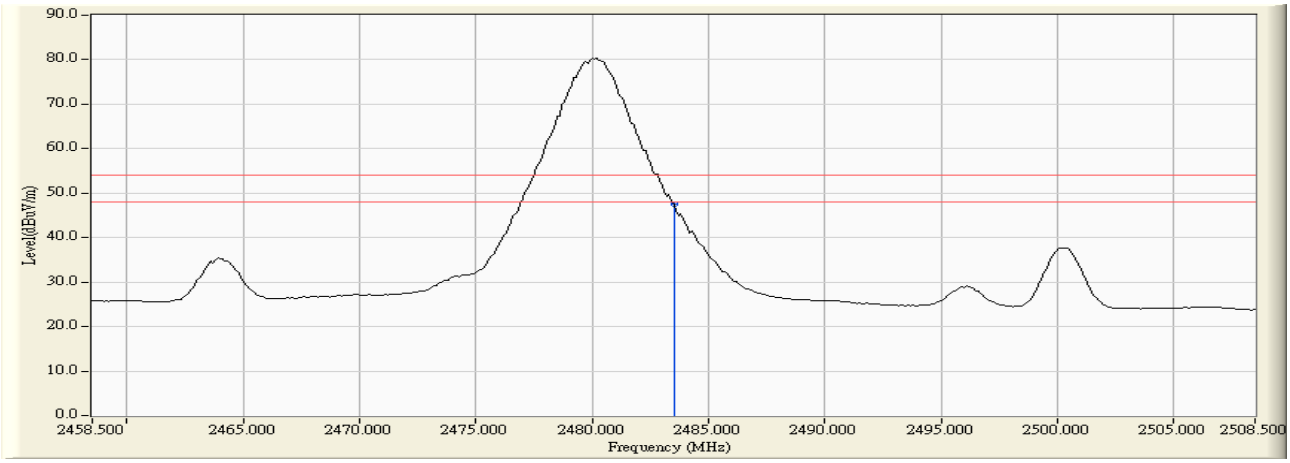
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2480.000	-1.952	97.350	95.399	74.00	54.00	Pass
78(Peak)	2483.500	-1.937	60.551	58.614	74.00	54.00	Pass
78(Peak)	2500.000	-1.886	44.989	43.103	74.00	54.00	Pass
78(Average)	2483.500	-1.937	49.409	47.472	74.00	54.00	Pass

Figure Channel 78: (Horizontal) (Peak)



Note: RBW=1MHz, VBW=1MHz, Sweep=500ms

Figure Channel 78: (Horizontal) (Average)



Note:
RBW=1MHz, VBW=300Hz, Sweep Time=500ms.

Product : Tablet PC
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2480MHz)

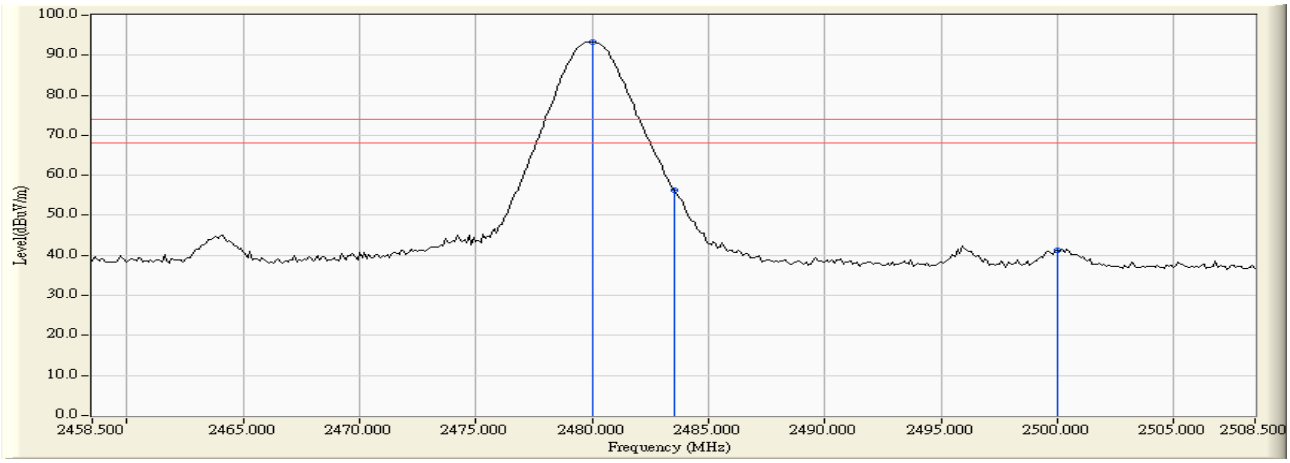
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

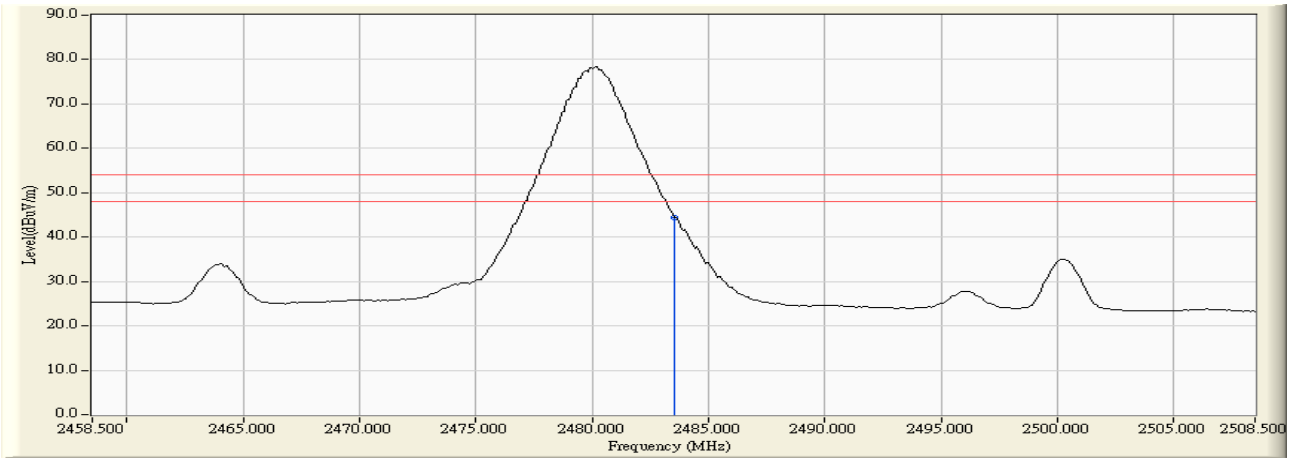
Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2480.000	-1.952	95.332	93.381	74.00	54.00	Pass
78(Peak)	2483.500	-1.937	58.278	56.341	74.00	54.00	Pass
78(Peak)	2500.000	-1.886	43.077	41.191	74.00	54.00	Pass
78(Average)	2483.500	-1.937	46.446	44.509	74.00	54.00	Pass

Figure Channel 78: (Vertical) (Peak)



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

Figure Channel 78: (Vertical) (Average)



Note:RBW=1MHz, VBW=300Hz, 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

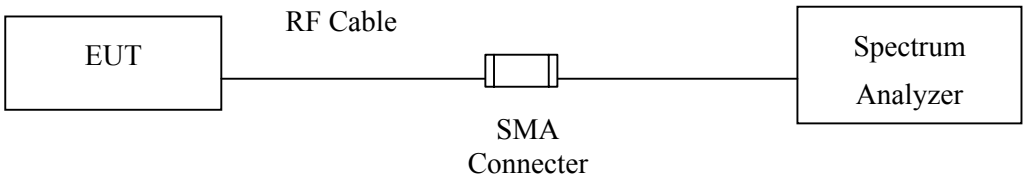
6.1. Test Equipment

The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

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. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

6.5. Uncertainty

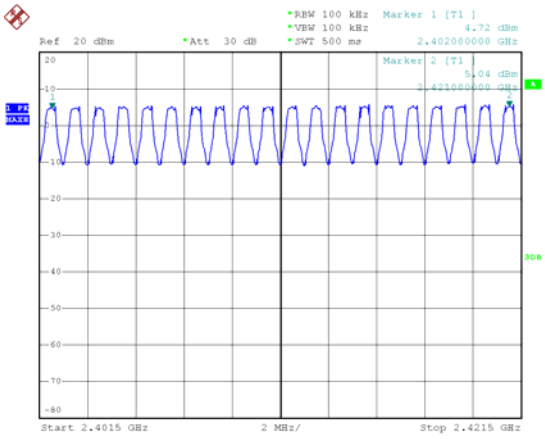
N/A

6.6. Test Result of Channel Number

Product : Tablet PC
Test Item : Channel Number
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

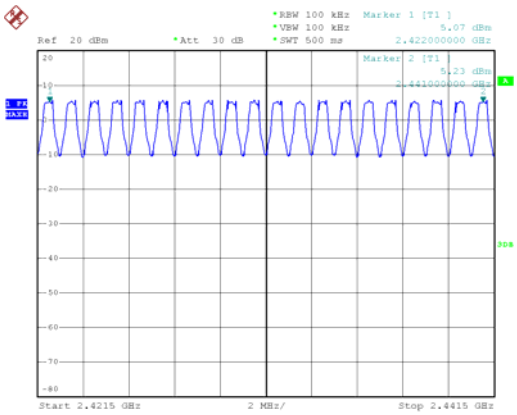
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2421MHz



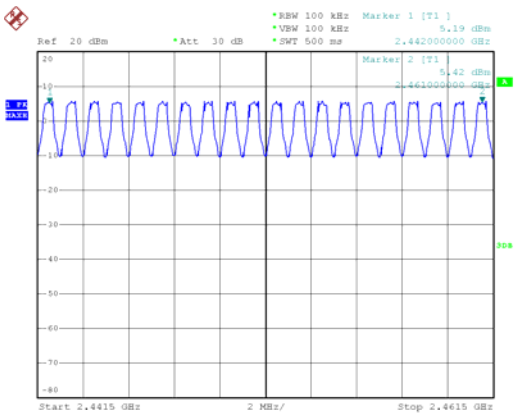
Date: 29.NOV.2007 13:21:39

2422-2441MHz



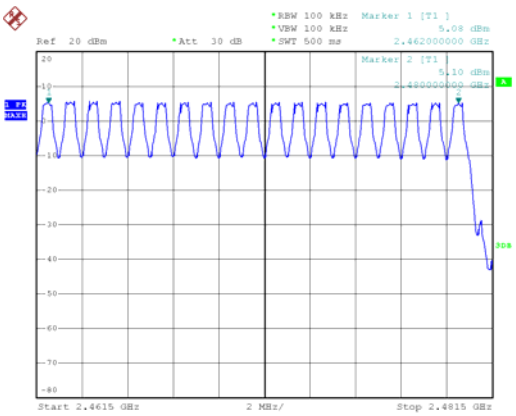
Date: 29.NOV.2007 13:30:04

2442-2461MHz



Date: 29.NOV.2007 13:35:17

2462-2480MHz

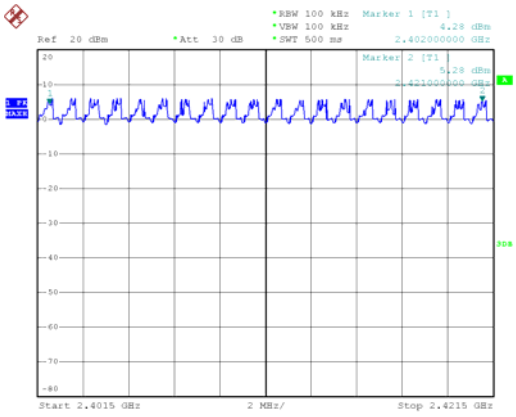


Date: 29.NOV.2007 13:43:13

Product : Tablet PC
Test Item : Channel Number
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

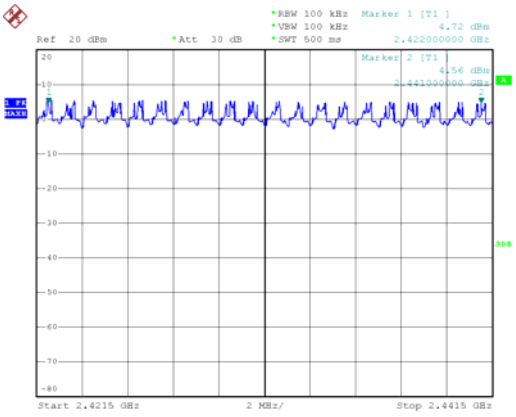
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2421MHz



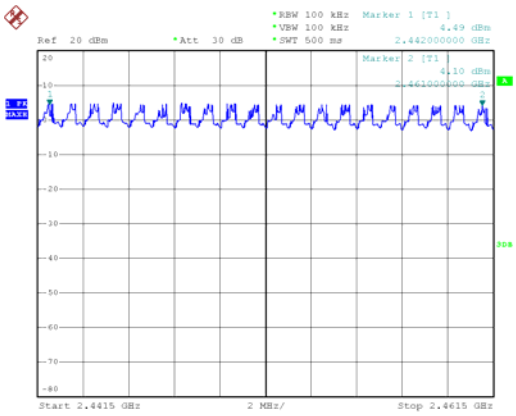
Date: 29.NOV.2007 13:56:07

2422-2441MHz



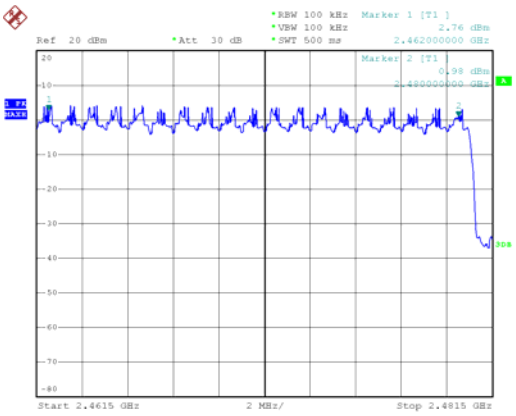
Date: 29.NOV.2007 14:02:38

2442-2461MHz



Date: 29.NOV.2007 14:08:41

2462-2480MHz



Date: 29.NOV.2007 14:16:13

7. Channel Separation

7.1. Test Equipment

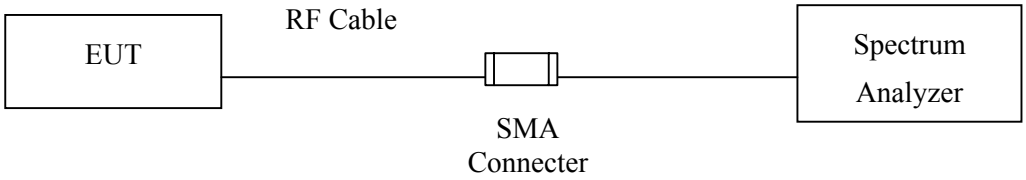
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.

2. The test instruments mark by "X" are used to measure the final test results.

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.

7.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

7.5. Uncertainty

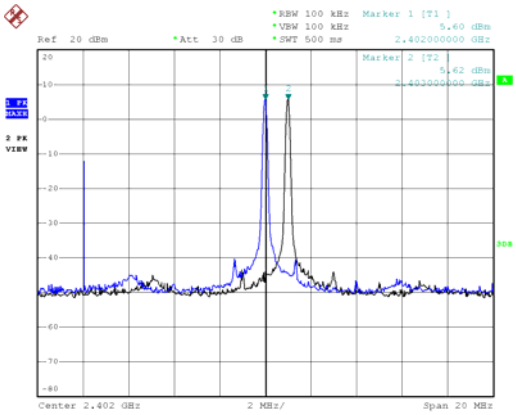
± 150Hz

7.6. Test Result of Channel Separation

Product : Tablet PC
Test Item : Channel Separation
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

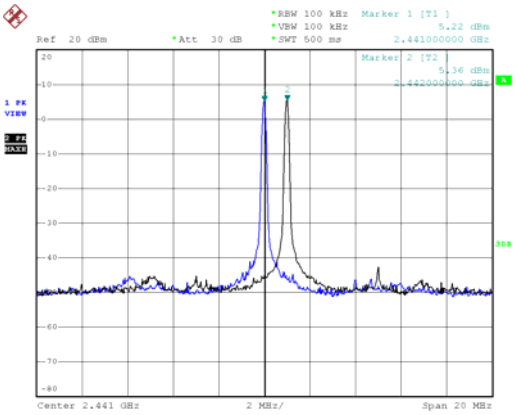
Frequency (MHz)	Measurement Level (MHz)	Required Limit	Result
2402	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2441	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2480	1.00	>25 kHz or 2/3 * 20 dB BW	Pass

Channel 00 2402MHz



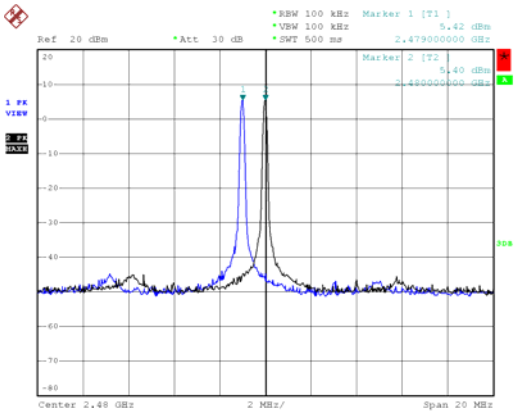
Date: 29.NOV.2007 13:03:32

Channel 39 2441MHz



Date: 29.NOV.2007 13:04:26

Channel 78 2480 MHz

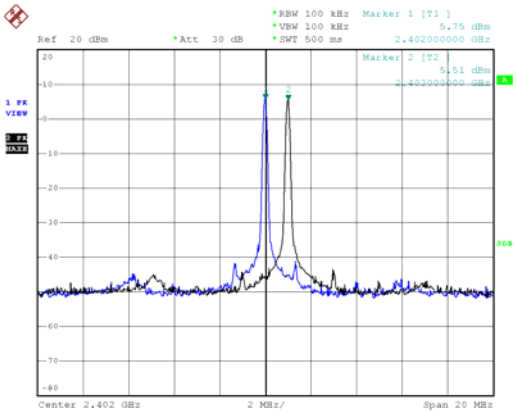


Date: 29.NOV.2007 13:06:07

Product : Tablet PC
Test Item : Channel Separation
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

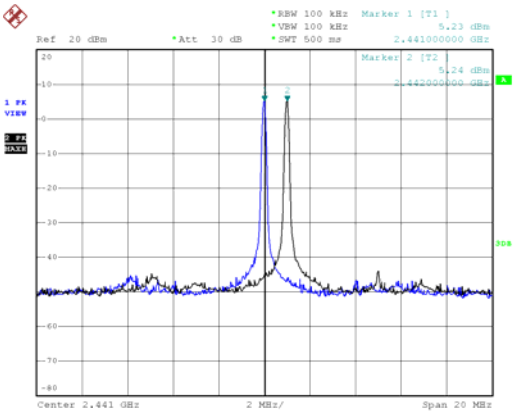
Frequency (MHz)	Measurement Level (MHz)	Required Limit	Result
2402	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2441	1.00	>25 kHz or 2/3 * 20 dB BW	Pass
2480	1.00	>25 kHz or 2/3 * 20 dB BW	Pass

Channel 00 2402MHz



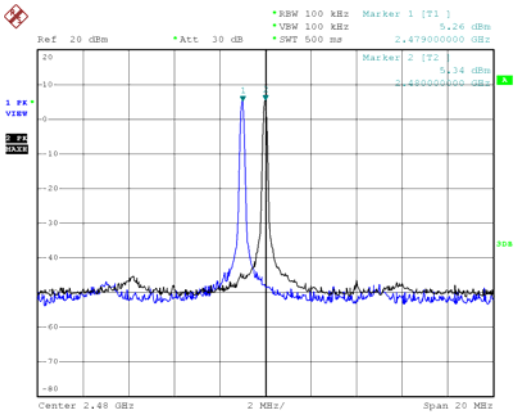
Date: 29.NOV.2007 13:09:28

Channel 39 2441MHz



Date: 29.NOV.2007 13:11:09

Channel 78 2480 MHz



Date: 29.NOV.2007 13:12:41

8. Dwell Time

8.1. Test Equipment

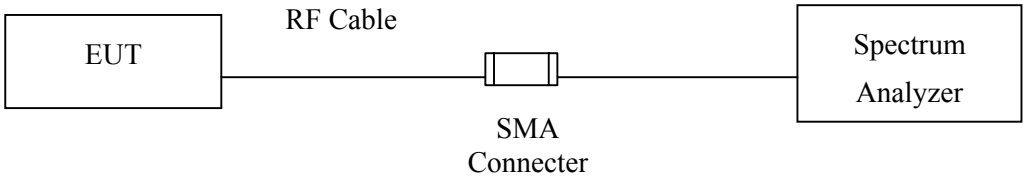
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

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 30 second period.

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

8.5. Uncertainty

± 25msec

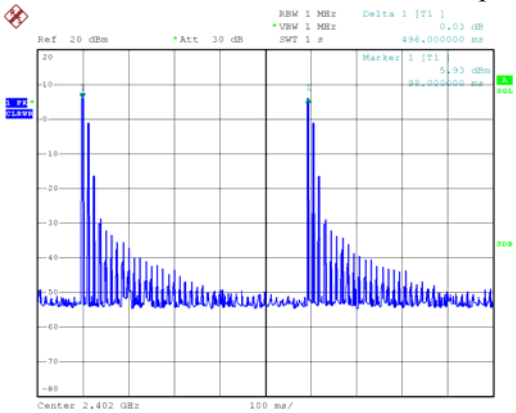
8.6. Test Result of Dwell Time

Product : Tablet PC
Test Item : Dwell Time
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(Channel 00,39,78 –DH5)

Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	496	2905	185.0766129	400	Pass
39	2441	494	2905	185.8259109	400	Pass
78	2480	496	2905	185.0766129	400	Pass

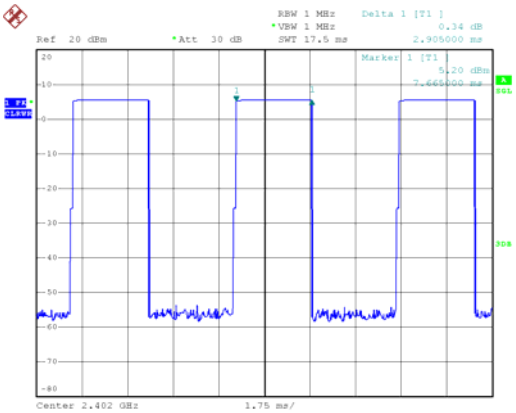
Note: Dwell Time = 79 * 400 / Time Interval Between Hops * Transmission Time / 1000

CH 2402MHz Time Interval between hops



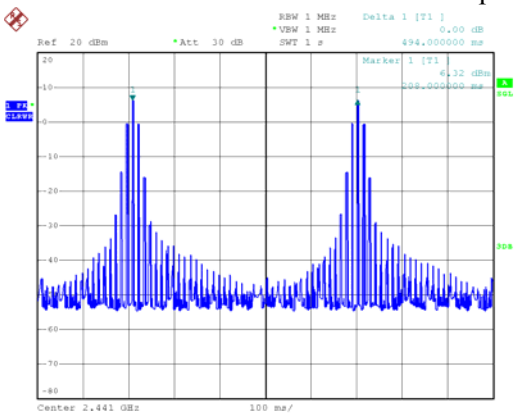
Date: 30.NOV.2007 06:38:01

Transmission Time



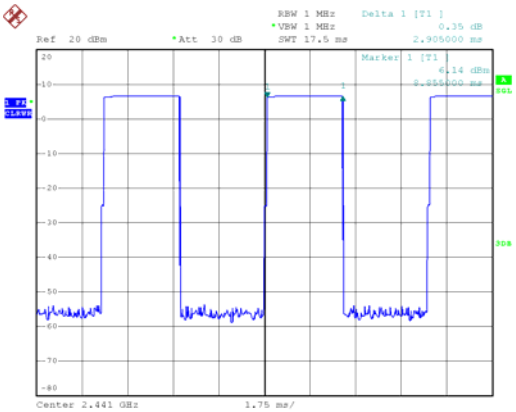
Date: 30.NOV.2007 06:49:19

CH 2441MHz Time Interval between hops



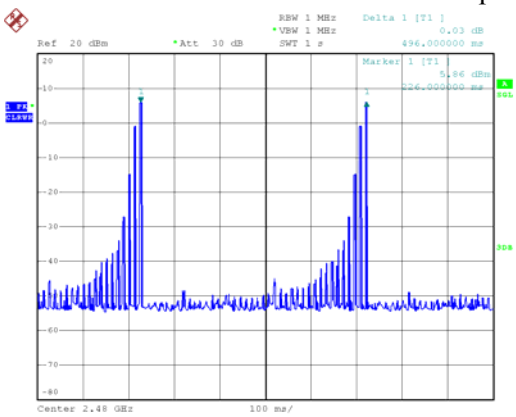
Date: 30.NOV.2007 06:38:37

Transmission Time



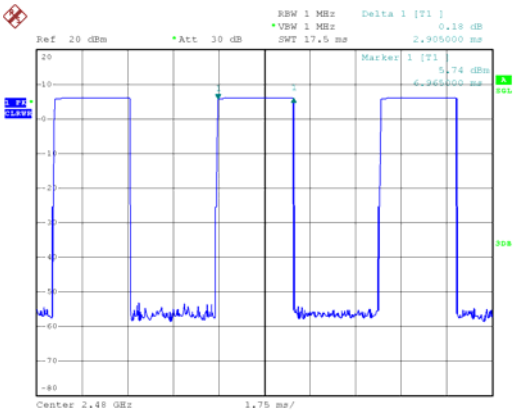
Date: 30.NOV.2007 06:51:01

CH 2480MHz Time Interval between hops



Date: 30.NOV.2007 06:39:17

Transmission Time



Date: 30.NOV.2007 06:52:21

Note:

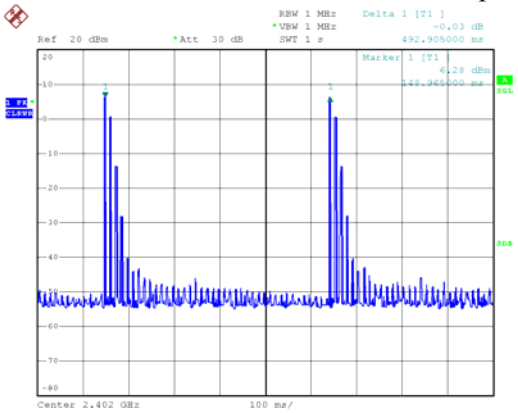
The dwell times of the packet type DH5 are tested.

Product : Tablet PC
Test Item : Dwell Time
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(Channel 00,39,78 –DH5)

Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	492.905	2910	186.5592761	400	Pass
39	2441	492.905	2910	186.5592761	400	Pass
78	2480	492.905	2940	188.4825676	400	Pass

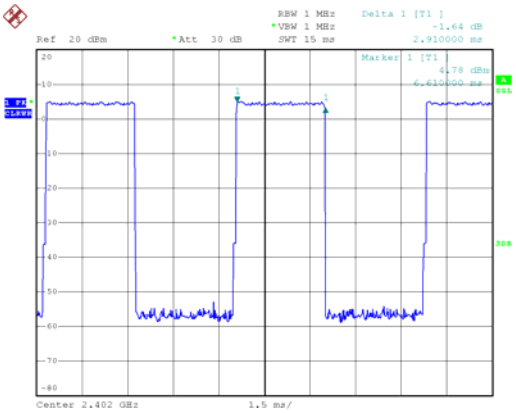
Note: Dwell Time = 79 * 400 / Time Interval Between Hops * Transmission Time / 1000

CH 2402MHz Time Interval between hops



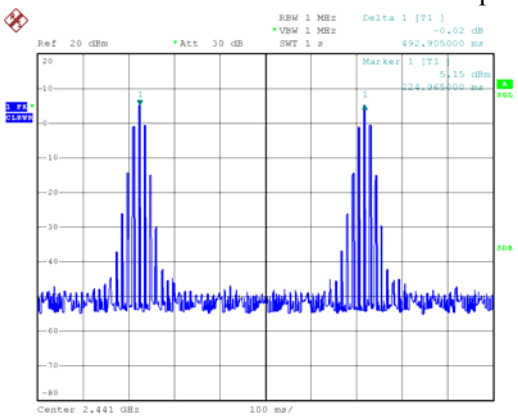
Date: 30.NOV.2007 07:16:32

Transmission Time



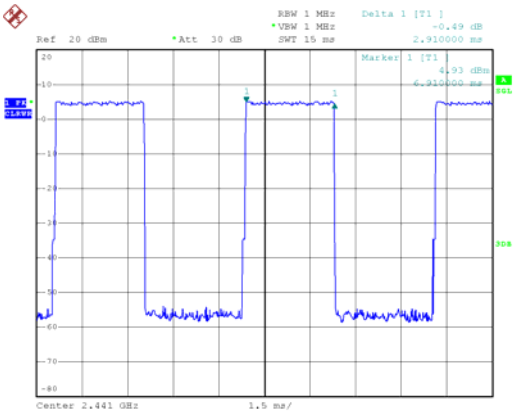
Date: 30.NOV.2007 07:30:37

CH 2441MHz Time Interval between hops



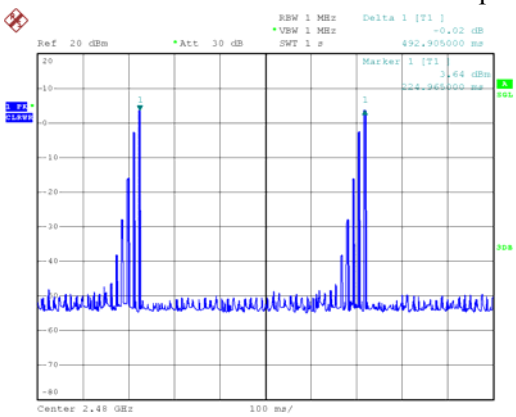
Date: 30.NOV.2007 07:22:57

Transmission Time

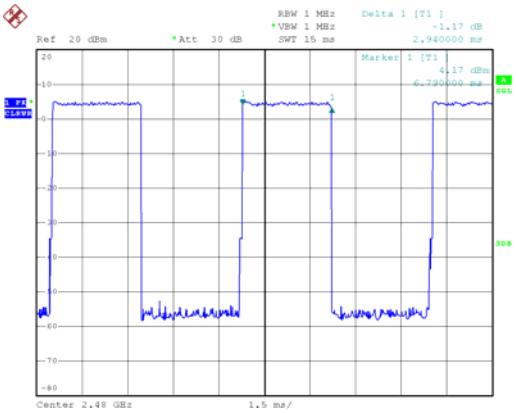


Date: 30.NOV.2007 07:31:14

CH 2480MHz Time Interval between hops



Transmission Time



Note:

The dwell times of the packet type DH5 are tested.

9. Occupied Bandwidth

9.1. Test Equipment

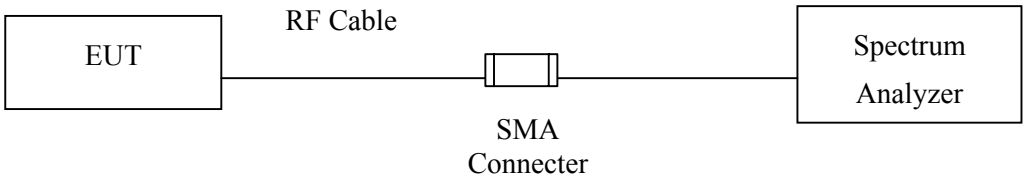
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EMI Test Receiver	R&S	ESI 26 / 838786/004	May, 2007

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

9.2. Test Setup



9.3. Limits

N/A

9.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

9.5. Uncertainty

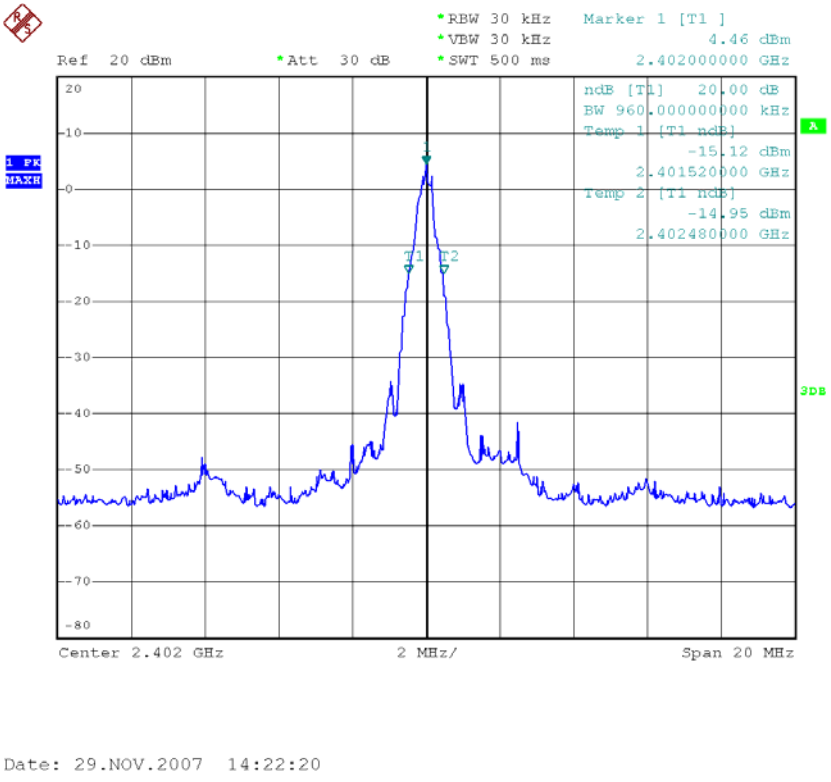
± 150Hz

9.6. Test Result of Occupied Bandwidth

Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	960	--	NA

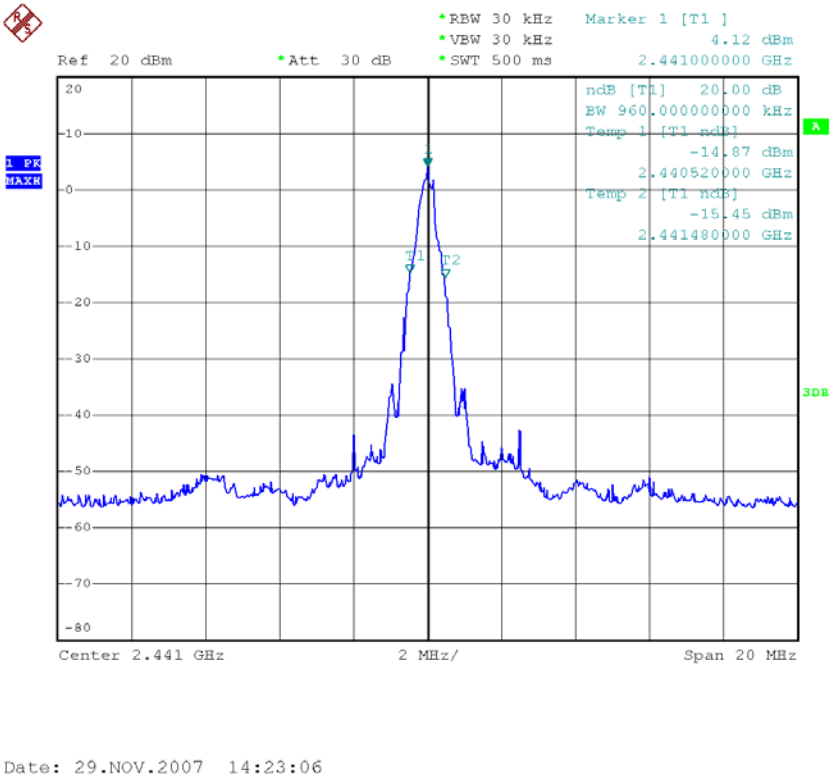
Figure Channel 00:



Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	960	--	NA

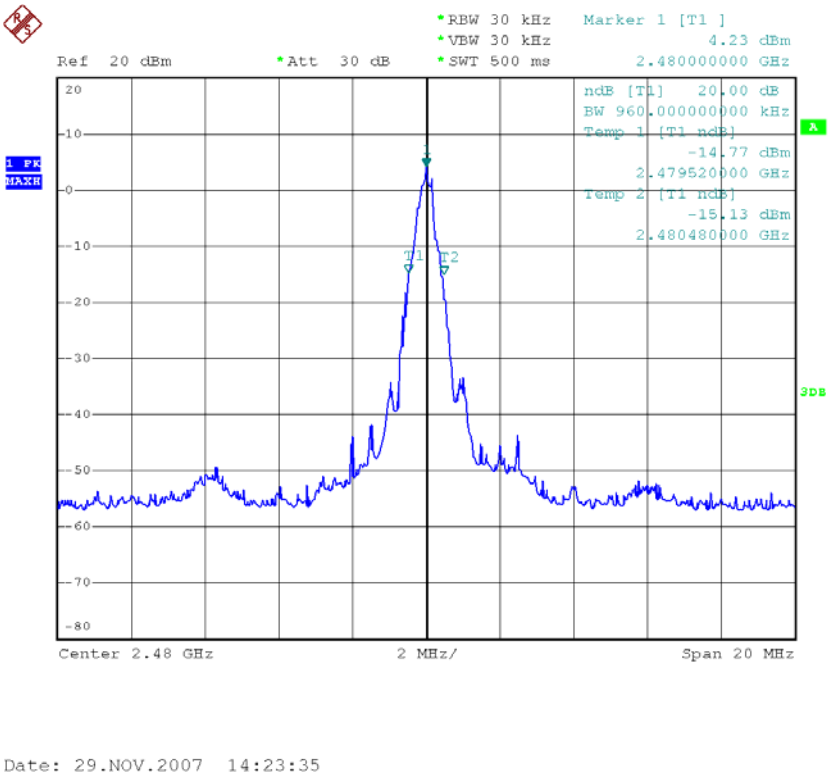
Figure Channel 39:



Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	960	--	NA

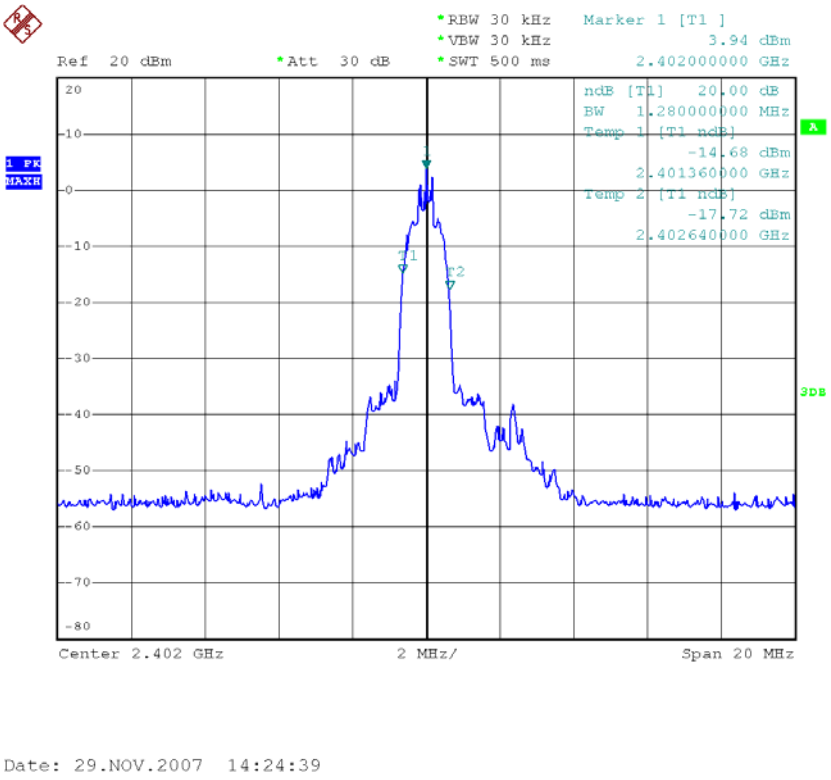
Figure Channel 78:



Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1280	--	NA

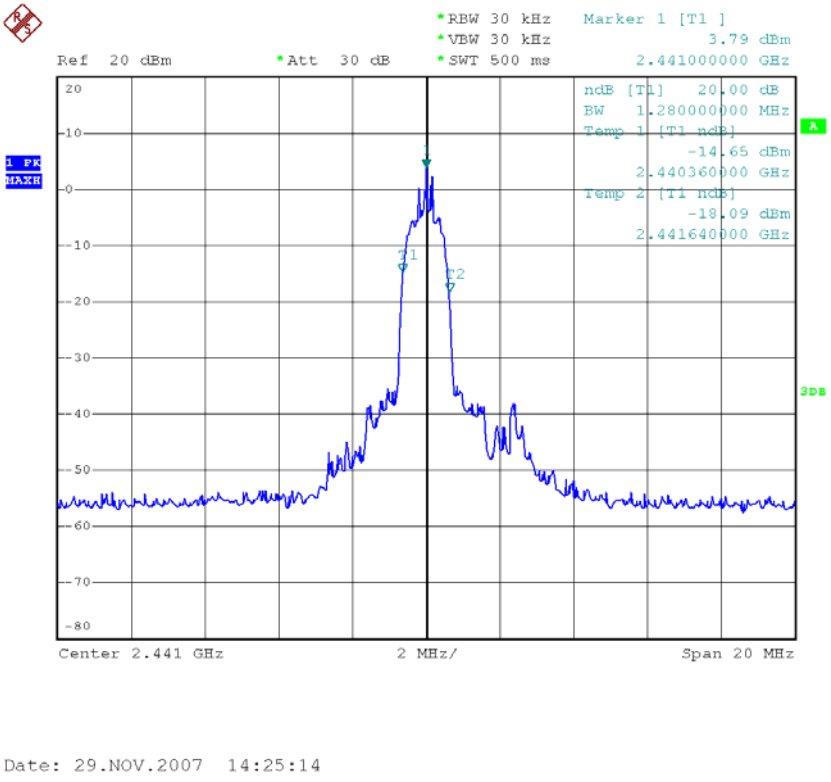
Figure Channel 00:



Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	1280	--	NA

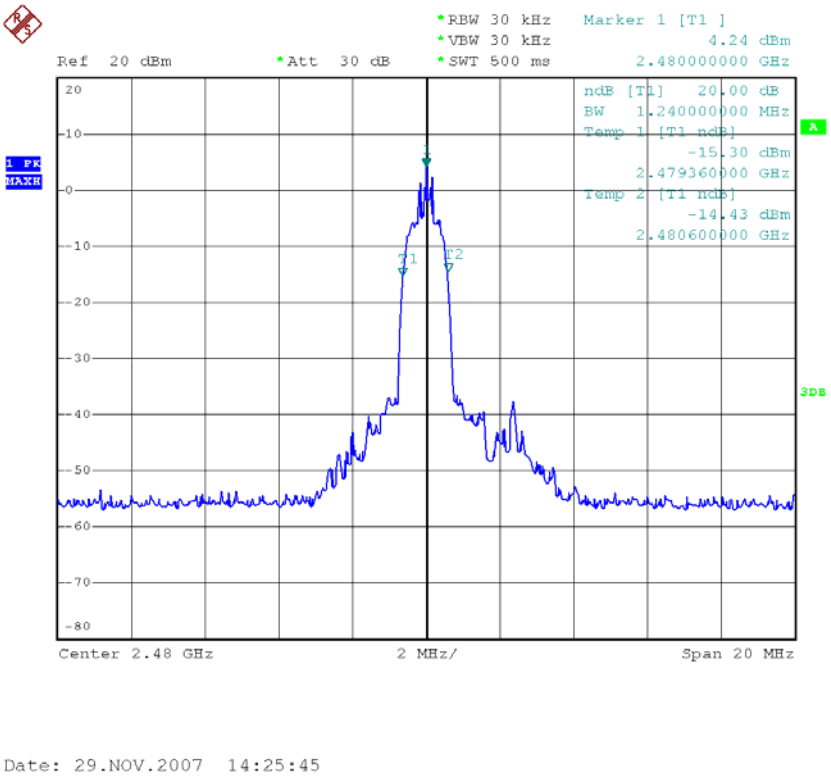
Figure Channel 39:



Product : Tablet PC
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	1240	--	NA

Figure Channel 78:



10. EMI Reduction Method During Compliance Testing

No modification was made during testing.