

FC

Test Report

Product Name	Table PC
Model No.	T22X (X=0~9, A~Z)
FCC ID.	R4RAIRT22XQXKN2

Applicant	AMTEK SYSTEM CO., LTD.
Address	14F-11, No.79, Sec.1, Hsin Tai Wu Rd., His Chih City, Taipei Hsien, Taiwan

Date of Receipt	Oct. 23, 2007
Issued Date	Nov. 28, 2007
Report No.	07A323R-RFUSP06V01

The Test Results relate only to the samples tested.

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This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

Test Report Certification

Issued Date: Nov. 28, 2007

Report No.: 07A323R-RFUSP06V01



Accredited by NIST (NVLAP)

NVLAP Lab Code: 200347-0

Product Name	Table PC
Applicant	AMTEK SYSTEM CO., LTD.
Address	14F-11, No.79, Sec.1, Hsin Tai Wu Rd., His Chih City, Taipei Hsien, Taiwan
Manufacturer	Shandong Dong Hsin Electronics Co., Ltd.
Model No.	T22X (X=0~9, A~Z)
FCC ID.	R4RAIRT22XQXKN2
Rated Voltage	AC 120V/60Hz
Working Voltage	AC 120V/60Hz
Trade Name	iTablet
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2006 ANSI C63.4: 2003
Test Result	Complied



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Testing Laboratory

0914

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Table PC
Trade Name	iTablet
FCC ID.	R4RAIRT22XQXKN2
Model No.	T22X (X=0~9, A~Z)
Frequency Range	2402 – 2480MHz
Channel Number	79
Type of Modulation	GFSK(1Mbps)/ π /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	Dipole
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Power Adapter	MFR: LI SHIN, M/N: 0335A1965 Cable Out: Shielded, 1.8m with two ferrite cores bonded. Power Cord: Shielded, 1.8m

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	SLT Confidential	JPT2200703100	0.76dBi 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 Table PC with a built-in 2.4GHz BluetoothVer.2.0+EDR transceiver.
2. 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.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. 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 Table PC with 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)
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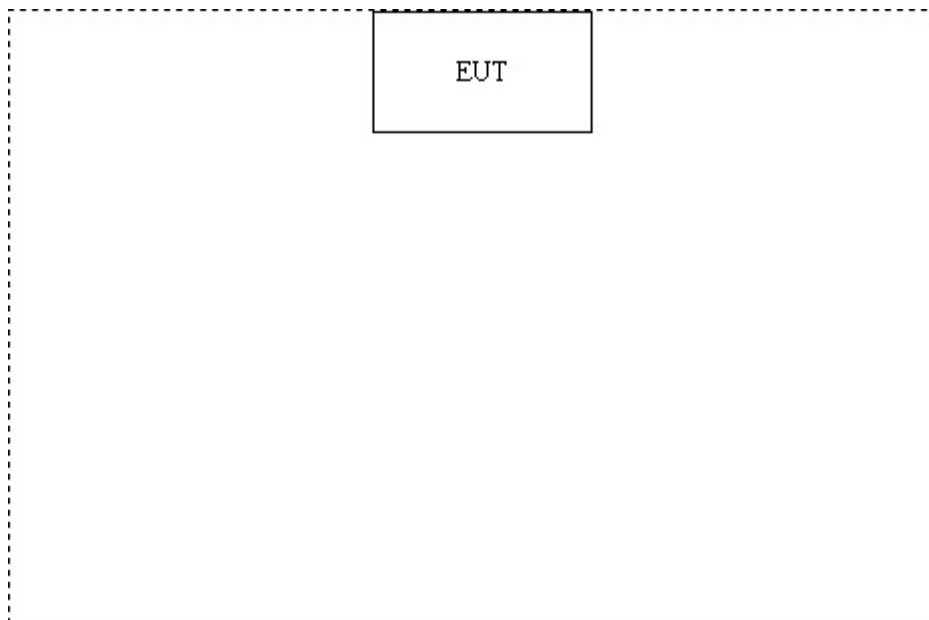
1.3. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.	Power Cord
(1)	N/A	N/A	N/A	N/A	N/A

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

2.1. Configuration of Tested System



2.2. EUT Exercise Software

- 1 Setup the EUT and simulators as shown on 1.4.
- 2 Turn on the power of all equipment.
- 3 Messages will be transmitted and received through EUT.
- 4 Test is based on the mandatory continuous transmitter.
- 5 Repeat the above procedure (3) to (4).

2.3. 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
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



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

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2007



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E-Mail : service@quietek.com

FCC Accreditation Number: TW1013



3. Conducted Emission

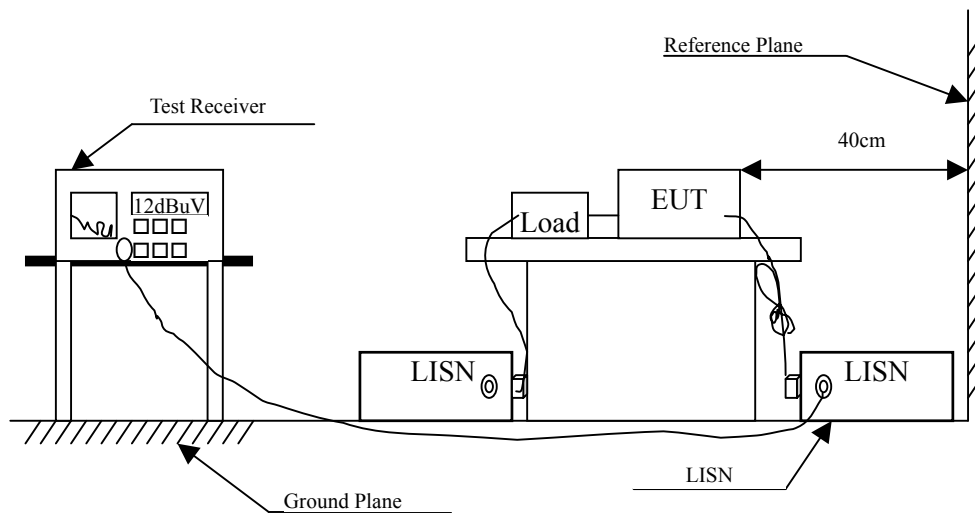
3.1. Test Equipment

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 30/825442/014	Feb., 2007	
2	L.I.S.N.	R & S	ESH3-Z5/825562/002	Feb., 2007	EUT
3	L.I.S.N.	R & S	ENV4200/848411/010	Feb., 2007	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2/100410	July, 2007	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

3.2. Test Setup



3.3. 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.

3.4. 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 investigated 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.

3.5. Uncertainty

± 2.26 dB

3.6. Test Result of Conducted Emission

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

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.201	0.643	45.510	46.153	-18.390	64.543
0.322	0.300	27.430	27.730	-33.356	61.086
0.498	0.300	28.710	29.010	-27.047	56.057
0.822	0.310	18.110	18.420	-37.580	56.000
3.337	0.380	26.480	26.860	-29.140	56.000
16.166	1.020	25.270	26.290	-33.710	60.000
Average					
0.201	0.643	32.980	33.623	-20.920	54.543
0.322	0.300	17.370	17.670	-33.416	51.086
0.498	0.300	10.750	11.050	-35.007	46.057
0.822	0.310	2.570	2.880	-43.120	46.000
3.337	0.380	13.700	14.080	-31.920	46.000
16.166	1.020	23.550	24.570	-25.430	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 : Table PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.201	0.300	45.740	46.040	-18.503	64.543
0.322	0.300	27.810	28.110	-32.976	61.086
0.459	0.310	31.380	31.690	-25.481	57.171
0.927	0.320	29.470	29.790	-26.210	56.000
1.724	0.340	19.700	20.040	-35.960	56.000
3.091	0.380	28.180	28.560	-27.440	56.000
Average					
0.201	0.300	33.610	33.910	-20.633	54.543
0.322	0.300	16.550	16.850	-34.236	51.086
0.459	0.310	29.630	29.940	-17.231	47.171
0.927	0.320	9.630	9.950	-36.050	46.000
1.724	0.340	3.500	3.840	-42.160	46.000
3.091	0.380	17.410	17.790	-28.210	46.000

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 : Table PC
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.201	0.643	46.910	47.553	-16.990	64.543
0.263	0.314	36.130	36.444	-26.327	62.771
0.459	0.300	28.000	28.300	-28.871	57.171
2.767	0.360	22.390	22.750	-33.250	56.000
4.185	0.402	24.140	24.542	-31.458	56.000
16.228	1.020	33.590	34.610	-25.390	60.000
Average					
0.201	0.643	36.100	36.743	-17.800	54.543
0.263	0.314	24.750	25.064	-27.707	52.771
0.459	0.300	15.250	15.550	-31.621	47.171
2.767	0.360	4.220	4.580	-41.420	46.000
4.185	0.402	12.310	12.712	-33.288	46.000
16.228	1.020	32.570	33.590	-16.410	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 : Table PC
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.181	0.300	31.420	31.720	-33.394	65.114
0.463	0.310	31.070	31.380	-25.677	57.057
0.927	0.320	27.970	28.290	-27.710	56.000
1.521	0.339	25.020	25.359	-30.641	56.000
3.107	0.380	28.550	28.930	-27.070	56.000
16.228	0.900	32.770	33.670	-26.330	60.000
Average					
0.181	0.300	16.930	17.230	-37.884	55.114
0.463	0.310	29.160	29.470	-17.587	47.057
0.927	0.320	22.720	23.040	-22.960	46.000
1.521	0.339	20.980	21.319	-24.681	46.000
3.107	0.380	18.770	19.150	-26.850	46.000
16.228	0.900	32.220	33.120	-16.880	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

4. Peak Power Output

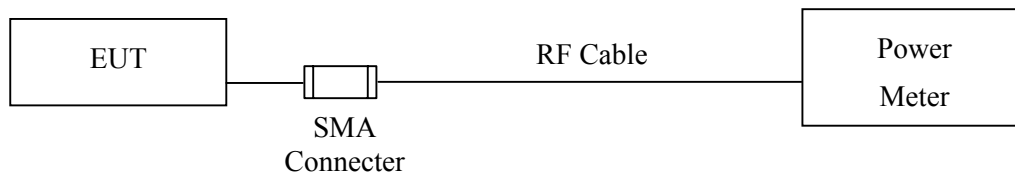
4.1. Test Equipment

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.

4.2. Test Setup



4.3. Limit

The maximum peak power shall be less 1Watt.

4.4. 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.

4.5. Uncertainty

± 1.27 dB

4.6. Test Result of Peak Power Output

Product : Table 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	2.22dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	2.98dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	1.59dBm	1 Watt= 30 dBm	Pass

Product : Table 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	0.83dBm	1 Watt= 30 dBm	Pass
Channel 39	2441.00	1.43dBm	1 Watt= 30 dBm	Pass
Channel 78	2480.00	-0.16dBm	1 Watt= 30 dBm	Pass

5. Radiated Emission

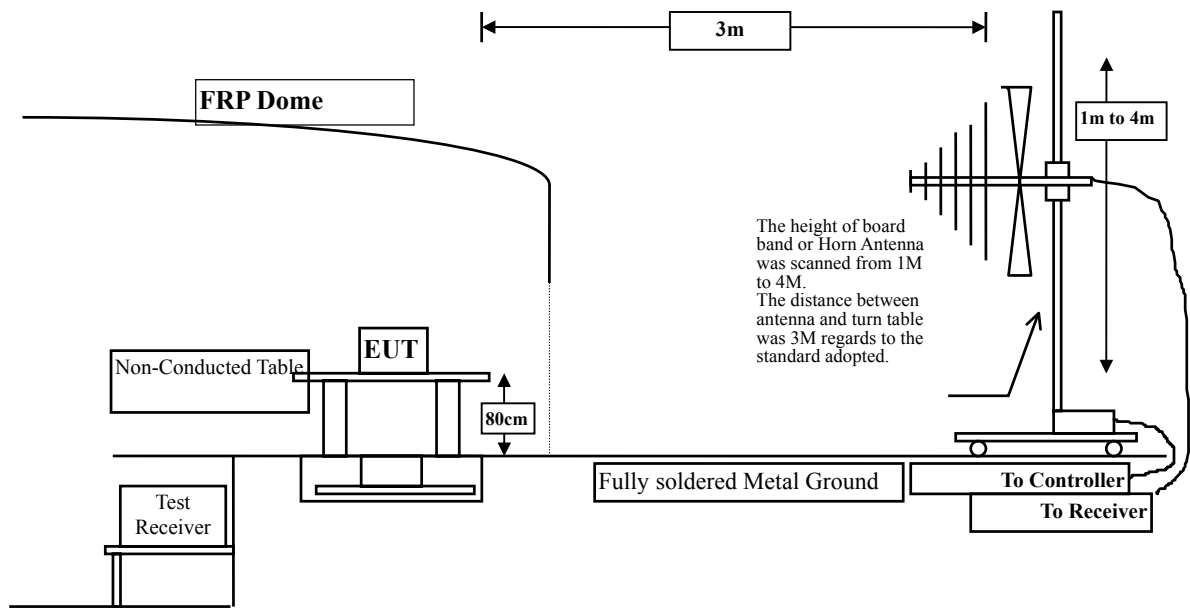
5.1. Test Equipment

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

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2007
	X	Pre-Amplifier	HP	8447D/2944A09549	Sep., 2007
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2007
	X	Spectrum Analyzer	Advantest	R3162/91700283	Oct., 2007
	X	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2007
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- 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



5.3. 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.

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

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics 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.

5.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

5.6. Test Result of Radiated Emission

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

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1597.000	-3.506	56.330	52.824	-21.176	74.000
4804.000	2.888	44.470	47.358	-26.642	74.000
7206.000	9.442	38.640	48.081	-25.919	74.000
9608.000	10.484	38.840	49.324	-24.676	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
1599.300	-3.501	57.210	53.709	-20.291	74.000
4803.800	2.887	42.630	45.517	-28.483	74.000
7206.000	9.442	37.680	47.121	-26.879	74.000
9608.000	10.484	38.250	48.734	-25.266	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1659.300	-3.382	52.720	49.338	-24.662	74.000
4882.000	3.056	43.110	46.166	-27.834	74.000
7323.000	9.570	37.040	46.610	-27.390	74.000
9764.000	10.614	36.870	47.484	-26.516	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
1597.000	-3.506	57.460	53.954	-20.046	74.000
4882.000	3.056	40.990	44.046	-29.954	74.000
7323.000	9.570	36.140	45.710	-28.290	74.000
9764.000	10.614	36.030	46.644	-27.356	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
Test Item : Harmonic Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
1594.500	-3.507	52.730	49.223	-24.777	74.000
4960.000	3.237	42.300	45.537	-28.463	74.000
7440.000	9.689	36.020	45.708	-28.292	74.000
9920.000	10.742	36.280	47.022	-26.978	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
1598.700	-3.503	56.850	53.347	-20.653	74.000
4960.000	3.237	41.200	44.437	-29.563	74.000
7440.000	9.689	35.510	45.198	-28.802	74.000
9920.000	10.742	36.030	46.772	-27.228	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)(2402MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4804.000	3.663	36.380	40.043	-33.957	74.000
7206.000	9.357	34.190	43.546	-30.454	74.000
9608.000	11.842	35.750	47.592	-26.408	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4804.000	3.663	36.000	39.663	-34.337	74.000
7206.000	9.357	34.680	44.036	-29.964	74.000
9608.000	11.842	35.060	46.902	-27.098	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4882.000	3.921	35.950	39.871	-34.129	74.000
7323.000	9.657	33.950	43.607	-30.393	74.000
9764.000	11.798	35.340	47.138	-26.862	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4882.000	3.921	35.310	39.231	-34.769	74.000
7323.000	9.657	34.080	43.737	-30.263	74.000
9764.000	11.798	34.770	46.568	-27.432	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
 Test Item : Harmonic Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK) (2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4960.000	4.197	35.710	39.906	-34.094	74.000
7440.000	9.951	33.050	43.001	-30.999	74.000
9920.000	11.856	34.680	46.536	-27.464	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4960.000	4.197	35.890	40.086	-33.914	74.000
7440.000	9.951	33.430	43.381	-30.619	74.000
9920.000	11.856	35.370	47.226	-26.774	74.000
Average					
Detector:					
--					

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:30Hz; 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 : Table PC
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)(2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
129.425	11.915	23.532	35.447	-18.053	53.500
192.475	8.417	31.634	40.051	-13.449	53.500
481.050	17.487	16.814	34.301	-22.099	56.400
575.625	18.182	21.584	39.766	-16.634	56.400
662.925	19.263	13.237	32.500	-23.900	56.400
813.275	20.115	17.534	37.649	-18.751	56.400
Vertical					
49.400	7.133	26.401	33.534	-15.466	49.000
129.425	10.889	24.527	35.416	-18.084	53.500
192.475	8.495	22.474	30.969	-22.531	53.500
481.050	17.287	12.537	29.824	-26.576	56.400
687.175	18.853	10.132	28.985	-27.415	56.400
810.850	20.105	12.139	32.244	-24.156	56.400

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

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
131.850	12.022	23.363	35.385	-18.115	53.500
192.475	8.417	31.710	40.127	-13.373	53.500
240.975	11.095	26.034	37.129	-19.271	56.400
405.875	15.986	16.927	32.913	-23.487	56.400
810.850	20.009	16.408	36.417	-19.983	56.400
927.250	21.367	17.042	38.409	-17.991	56.400
Vertical					
131.850	10.922	23.510	34.432	-19.068	53.500
192.475	8.495	23.619	32.114	-21.386	53.500
345.250	13.761	19.452	33.213	-23.187	56.400
481.500	17.287	13.118	30.405	-25.995	56.400
745.375	21.653	8.713	30.366	-26.034	56.400
927.250	22.467	14.497	36.964	-19.436	56.400

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.

6. Band Edge

6.1. Test Equipment

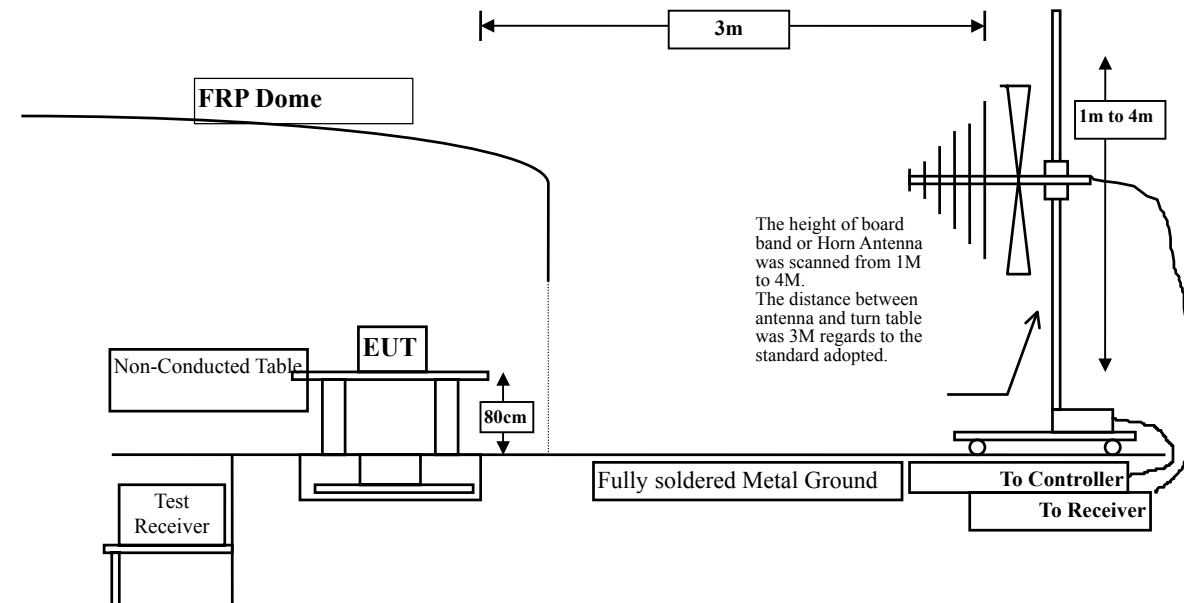
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2007
	X	Pre-Amplifier	HP	8447D/2944A09549	Sep., 2007
	X	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2007
	X	Spectrum Analyzer	Advantest	R3162/91700283	Oct., 2007
	X	Coaxial Cable	Quietek	QTK-CABLE/ CAB5	Feb., 2007
	X	Controller	Quietek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

- 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

RF Radiated Measurement:



6.3. 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)).

6.4. 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. 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

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)+WLAN 11M CH01

RF Radiated Measurement:

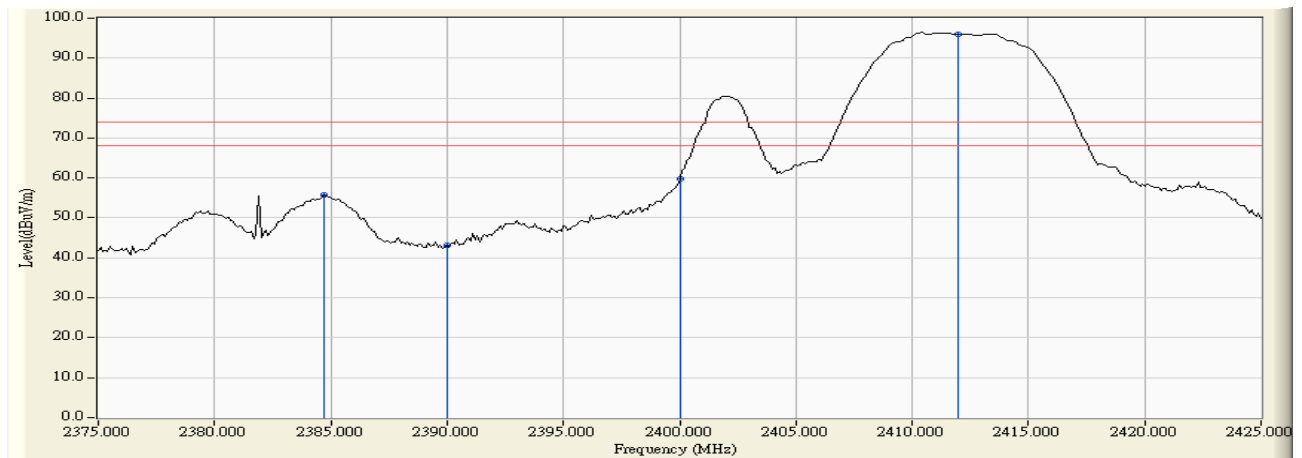
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2384.700	-1.093	56.764	55.671	74.00	54.00	Pass
00 (Peak)	2390.000	-1.150	44.342	43.192	74.00	54.00	Pass
00 (Peak)	2400.000	-1.257	61.093	59.836	74.00	54.00	Pass
00 (Peak)	2412.000	-1.384	97.277	95.893	74.00	54.00	Pass
00 (Average)	2384.700	-1.087	47.552	46.465	74.00	54.00	Pass

Figure Channel 00:

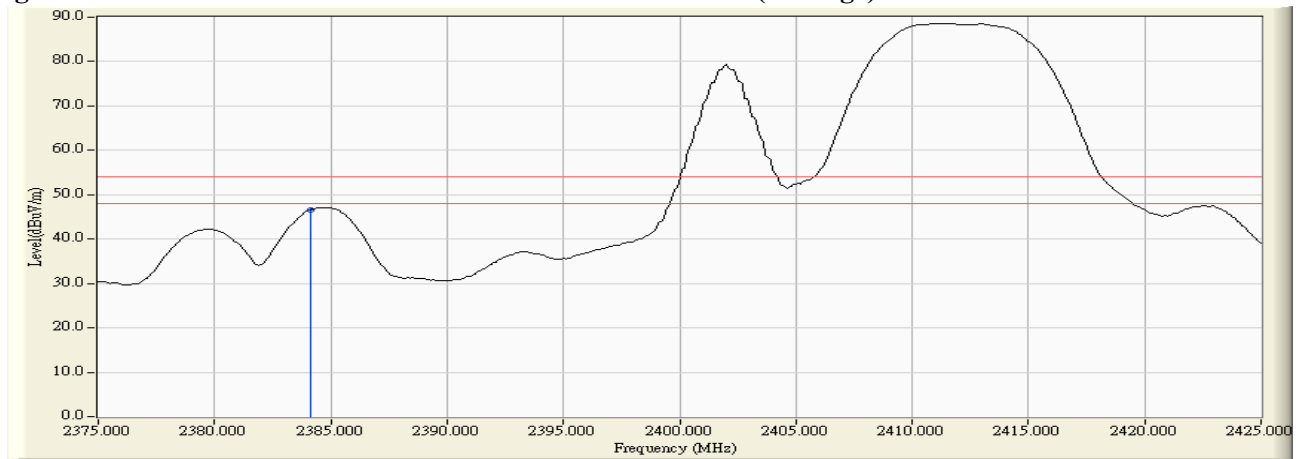
Horizontal (Peak)



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

Figure Channel 00:

Horizontal (Average)



Note: RBW=1MHz, VBW=30Hz, Sweep=500ms

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)+WLAN 11M CH01

RF Radiated Measurement:

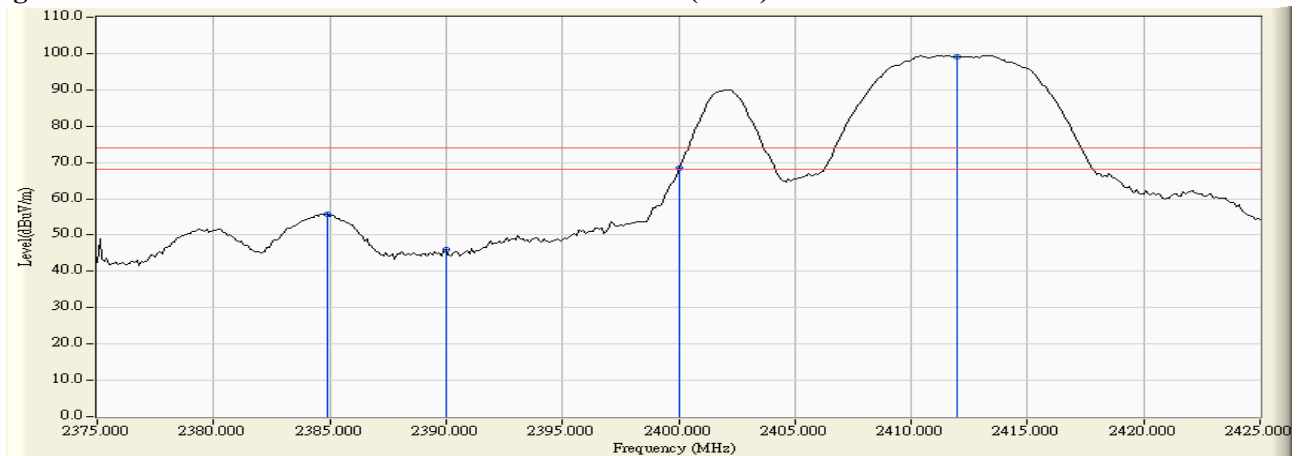
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00 (Peak)	2384.900	-1.096	56.834	55.738	74.00	54.00	Pass
00 (Peak)	2390.000	-1.150	47.055	45.905	74.00	54.00	Pass
00 (Peak)	2400.000	-1.257	69.562	68.305	74.00	54.00	Pass
00 (Peak)	2412.000	-1.384	100.427	99.043	74.00	54.00	Pass
00 (Average)	2384.900	-1.096	49.013	47.917	74.00	54.00	Pass

Figure Channel 00:

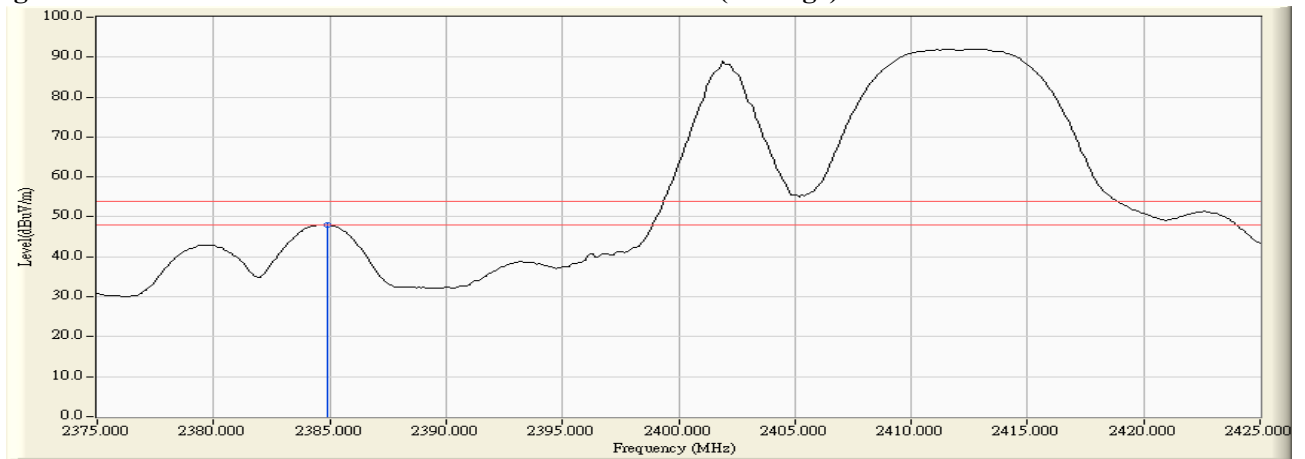
Vertical (Peak)



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

Figure Channel 00:

Vertical (Average)



Note: RBW=1MHz, VBW=30Hz, Sweep=500ms

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)+WLAN 11M CH11

RF Radiated Measurement:

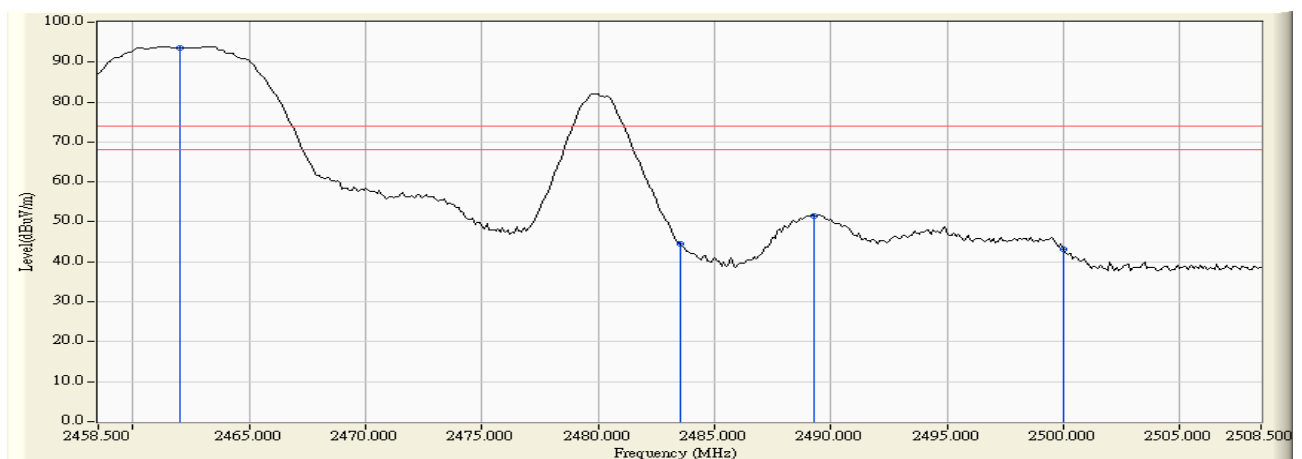
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78 (Peak)	2462.000	-1.920	95.414	93.494	74.00	54.00	Pass
78 (Peak)	2483.500	-2.159	46.711	44.552	74.00	54.00	Pass
78 (Peak)	2489.300	-2.143	53.727	51.584	74.00	54.00	Pass
78 (Peak)	2500.000	-2.096	45.299	43.203	74.00	54.00	Pass

Figure Channel 78:

Horizontal (Peak)



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

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)+WLAN 11M CH11

RF Radiated Measurement:

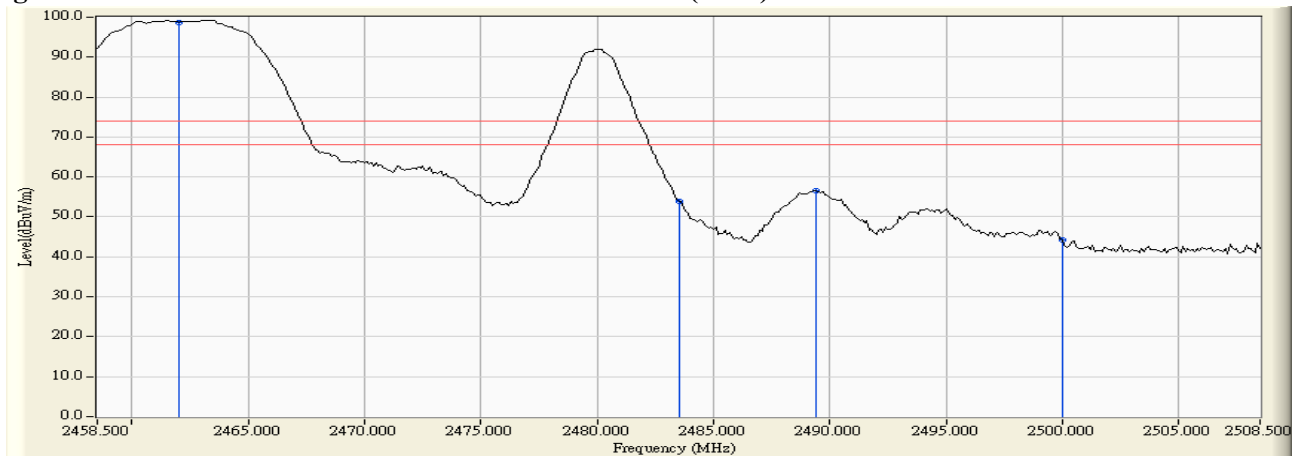
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
78 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78 (Peak)	2462.000	-1.920	100.709	98.789	74.00	54.00	Pass
78 (Peak)	2483.500	-2.159	56.087	53.928	74.00	54.00	Pass
78 (Peak)	2489.400	-2.142	58.601	56.459	74.00	54.00	Pass
78 (Peak)	2500.000	-2.096	46.304	44.208	74.00	54.00	Pass
78 (Average)	2489.400	-2.142	50.683	48.541	74.00	54.00	Pass

Figure Channel 78:

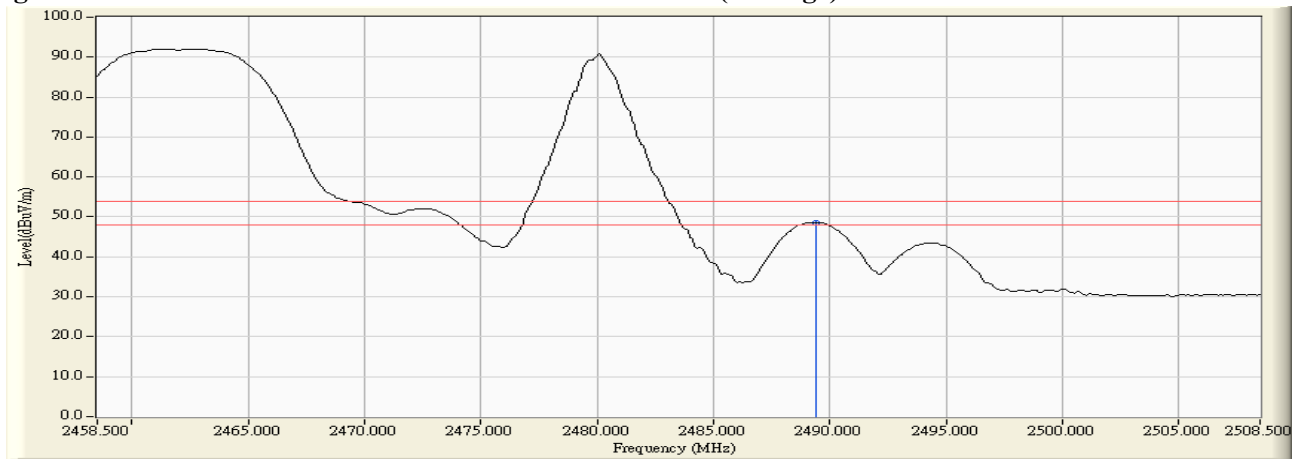
Vertical (Peak)



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

Figure Channel 78:

Vertical (Average)



Note: RBW=1MHz, VBW=30Hz, Sweep=500ms

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)+WLAN 54M CH01

RF Radiated Measurement:

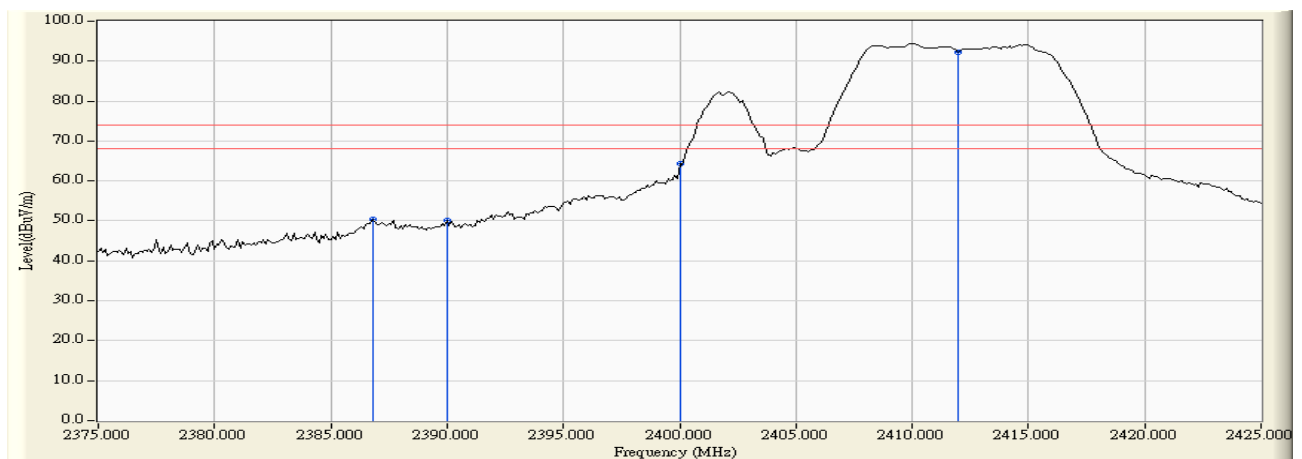
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
00 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00(Peak)	2386.800	-1.116	51.565	50.449	74.00	54.00	Pass
00(Peak)	2390.000	-1.150	51.157	50.007	74.00	54.00	Pass
00(Peak)	2400.000	-1.257	65.470	64.213	74.00	54.00	Pass
00(Peak)	2412.000	-1.384	93.713	92.329	74.00	54.00	Pass

Figure Channel 00:

Horizontal (Peak)



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

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)+WLAN 54M CH01

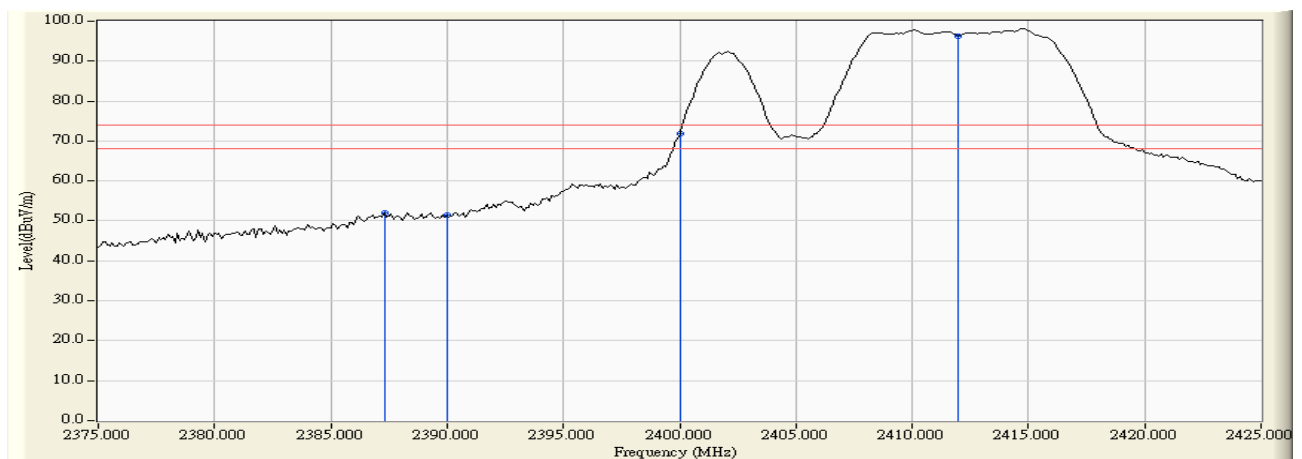
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
00(Peak)	2387.300	-1.121	53.190	52.069	74.00	54.00	Pass
00(Peak)	2390.000	-1.150	52.748	51.598	74.00	54.00	Pass
00(Peak)	2400.000	-1.257	73.222	71.965	74.00	54.00	Pass
00(Peak)	2412.000	-1.384	97.613	96.229	74.00	54.00	Pass

Figure Channel 00: Vertical (Peak)



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

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)+WLAN 54M CH11

RF Radiated Measurement:

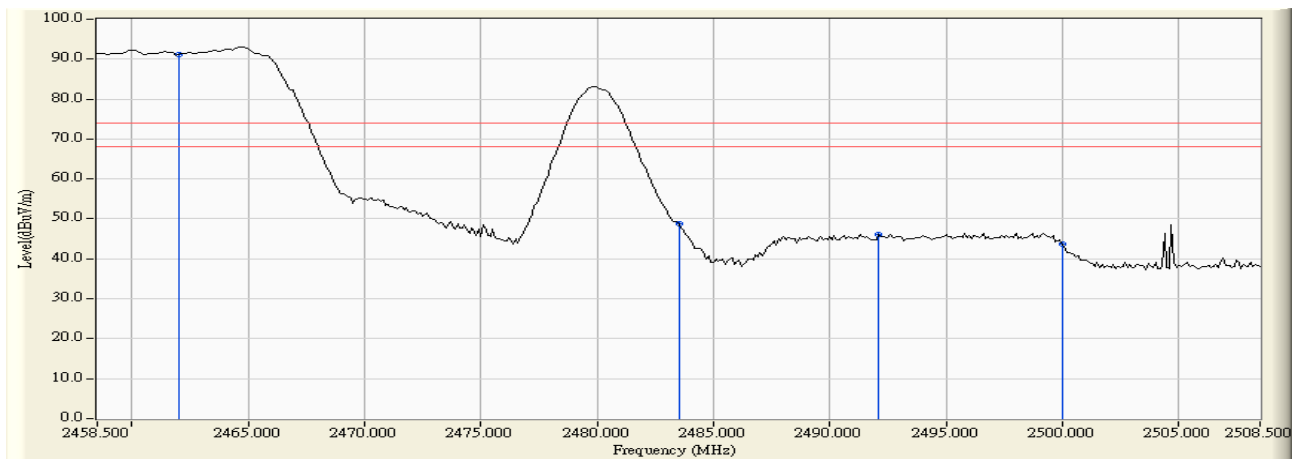
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
780 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2462.000	-1.920	93.054	91.134	74.00	54.00	Pass
78(Peak)	2483.500	-2.159	50.958	48.799	74.00	54.00	Pass
78(Peak)	2492.100	-2.131	48.176	46.045	74.00	54.00	Pass
78(Peak)	2500.000	-2.096	45.727	43.631	74.00	54.00	Pass

Figure Channel 78:

Horizontal (Peak)



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

Product : Table PC
 Test Item : Band Edge
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)+WLAN 54M CH11

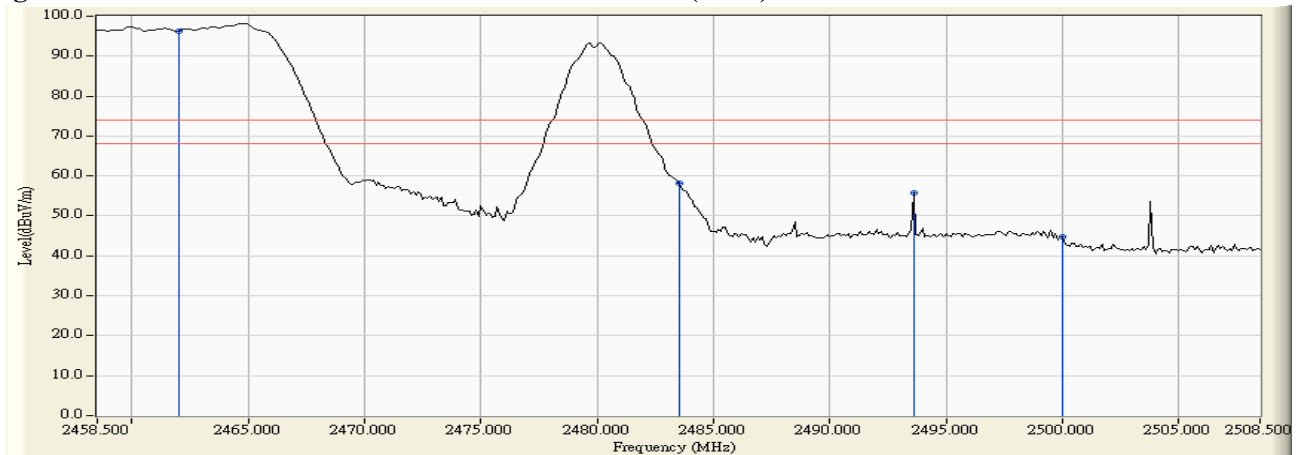
RF Radiated Measurement:

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

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78(Peak)	2462.000	-1.920	98.144	96.224	74.00	54.00	Pass
78(Peak)	2483.500	-2.159	60.246	58.087	74.00	54.00	Pass
78(Peak)	2493.600	-2.124	57.781	55.657	74.00	54.00	Pass
78(Peak)	2500.000	-2.096	46.743	44.647	74.00	54.00	Pass
78 (Average)	2493.600	-2.124	33.186	31.062	74.00	54.00	Pass

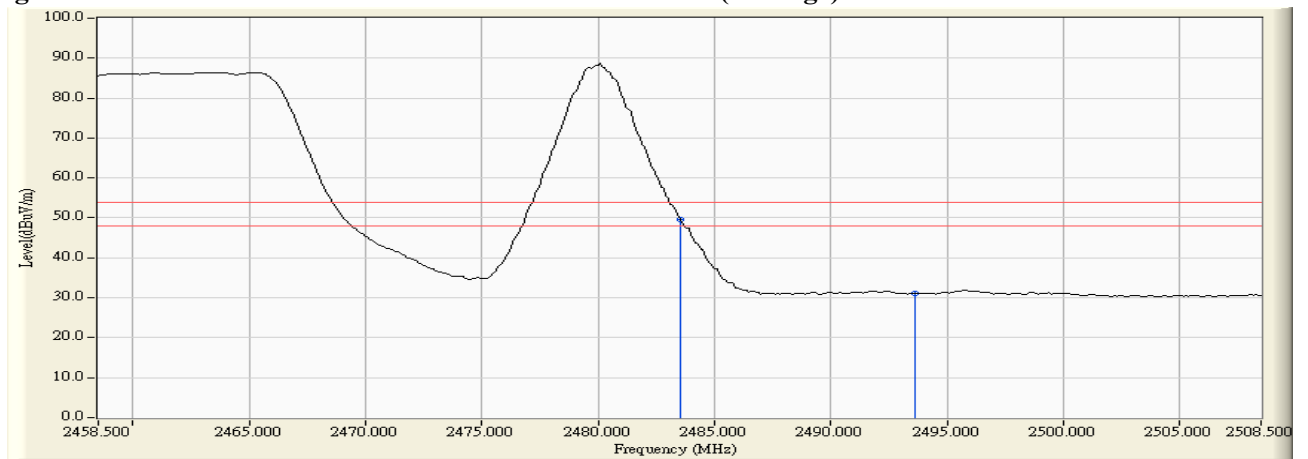
Figure Channel 78: Vertical (Peak)



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

Figure Channel 78:

Vertical (Average)



Note: RBW=1MHz, VBW=30Hz, Sweep=500ms

7. Channel Number

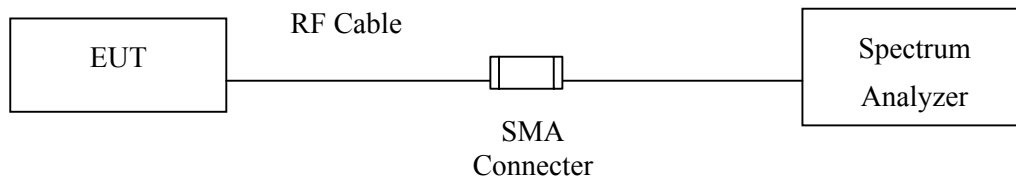
7.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	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.

7.2. Test Setup



7.3. Limit

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

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

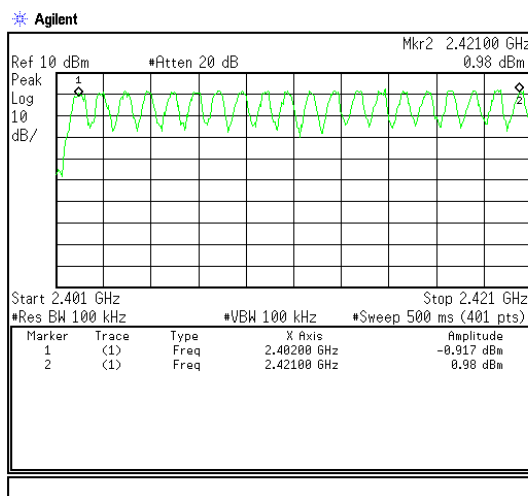
N/A

7.6. Test Result of Channel Number

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

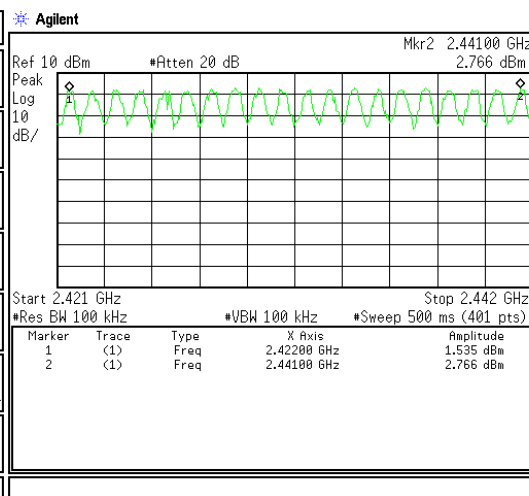
Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

2402-2421MHz



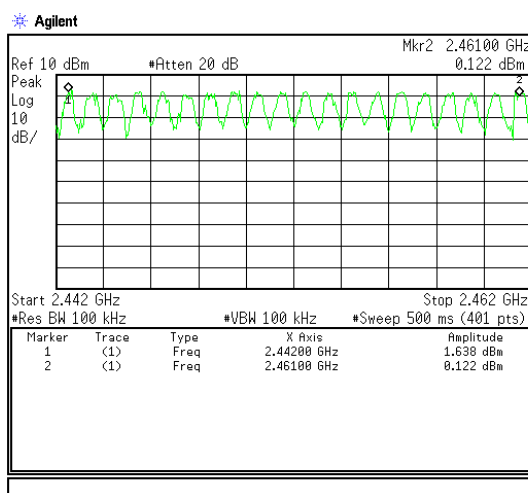
Freq/Channel
Center Freq 2.41125000 GHz
Start Freq 2.40100000 GHz
Stop Freq 2.42150000 GHz
CF Step 2.05000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

2422-2441MHz



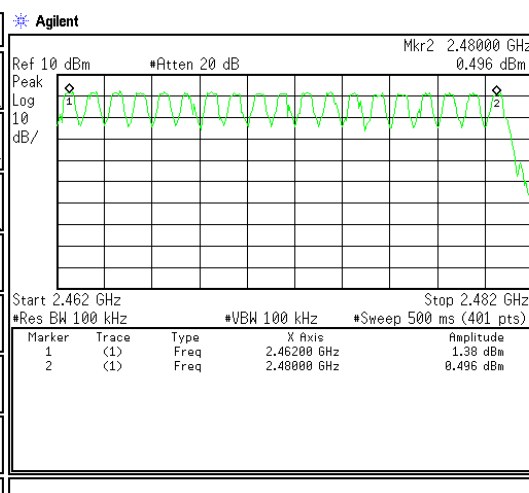
Freq/Channel
Center Freq 2.43150000 GHz
Start Freq 2.42150000 GHz
Stop Freq 2.44150000 GHz
CF Step 2.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

2442-2461MHz



Sweep
Sweep Time 500.0 ms Auto Man
Sweep Single Cont
Auto Sweep Coupling SR SA

2462-2480MHz

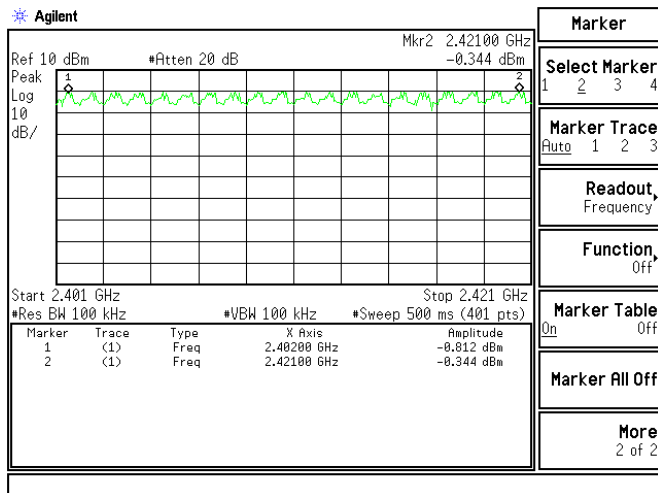


Sweep
Sweep Time 500.0 ms Auto Man
Sweep Single Cont
Auto Sweep Coupling SR SA

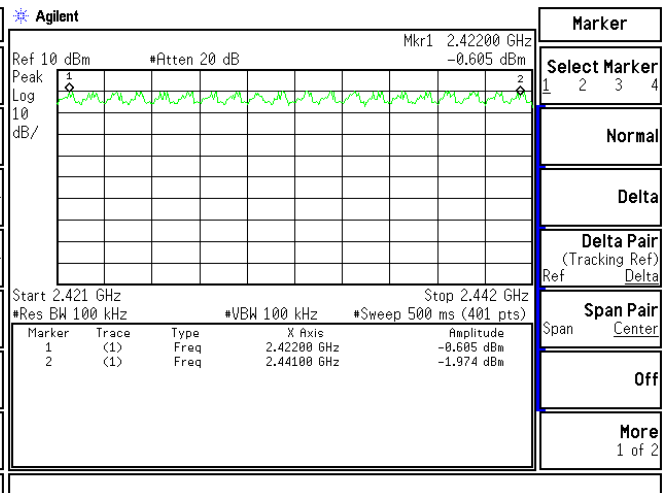
Product : Table PC
 Test Item : Channel Number
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

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

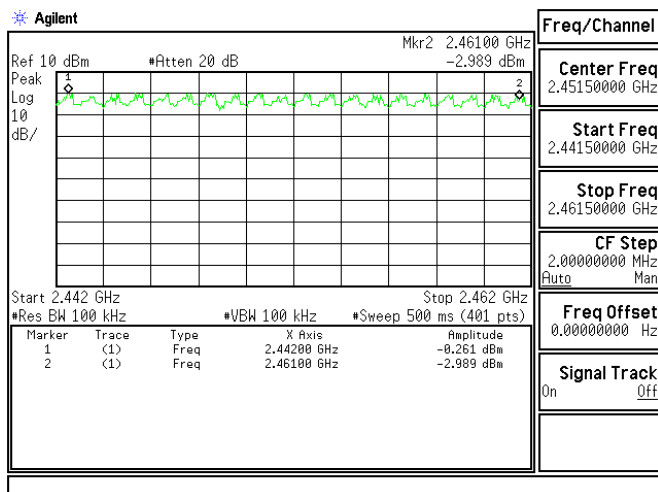
2402-2421MHz



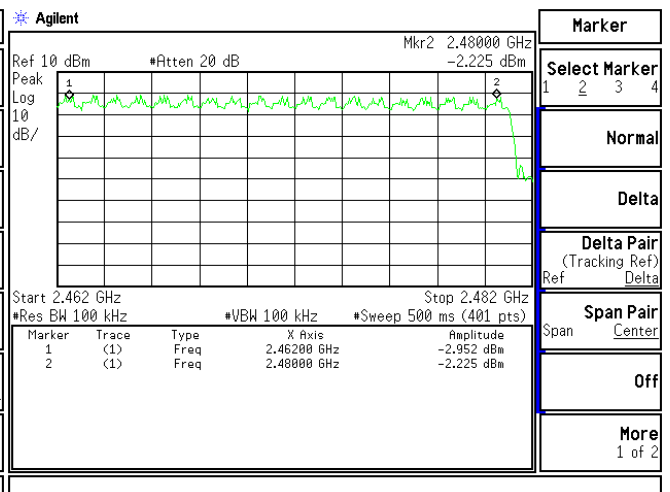
2422-2441MHz



2442-2461MHz



2462-2480MHz



8. Channel Separation

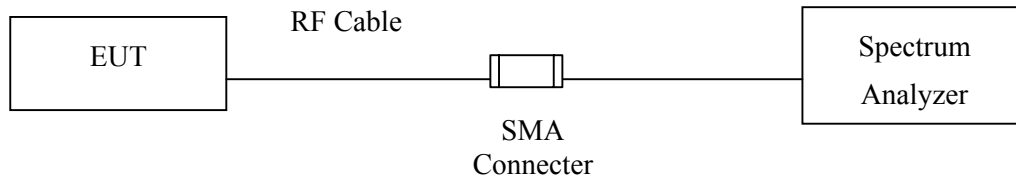
8.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	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.

8.2. Test Setup



8.3. 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.

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

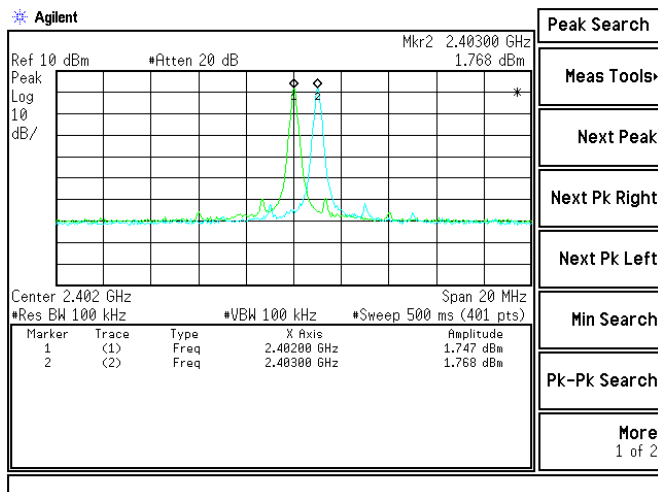
$\pm 150\text{Hz}$

8.6. Test Result of Channel Separation

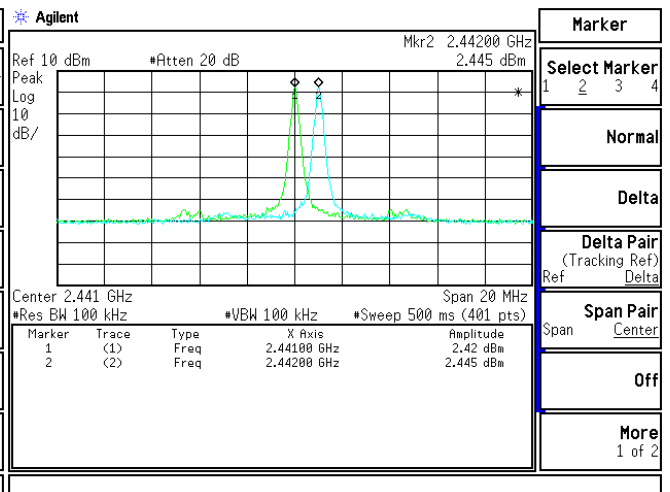
Product : Table PC
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter - 1Mbps (GFSK)

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

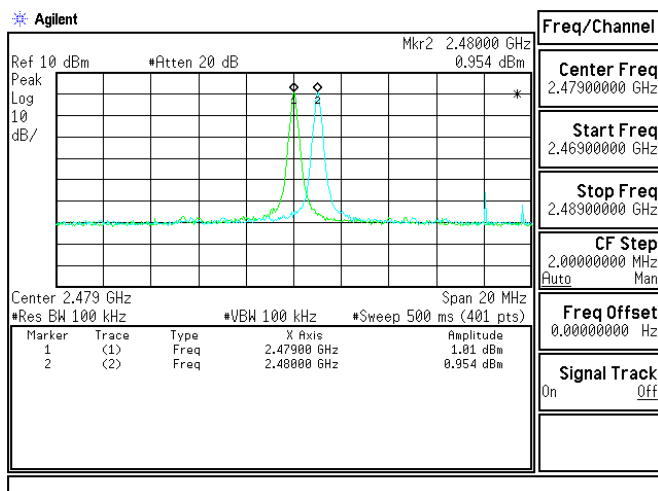
Channel 00 2402MHz



Channel 39 2441MHz



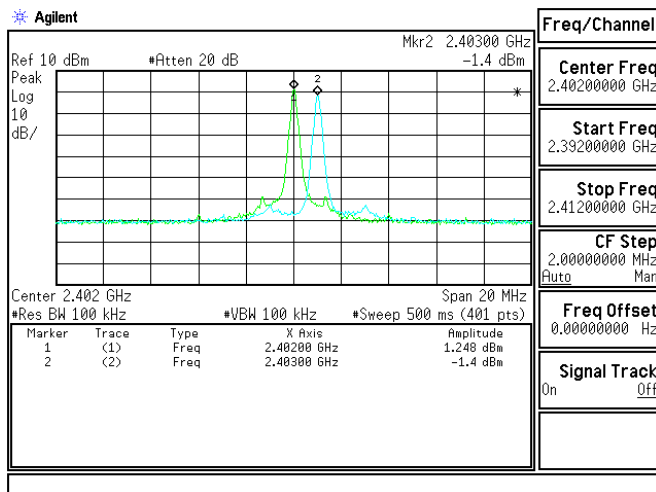
Channel 78 2480 MHz



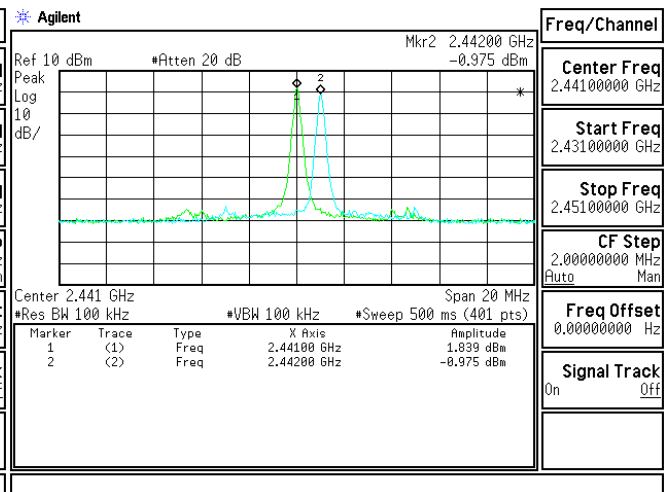
Product : Table PC
 Test Item : Channel Separation
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter - 3Mbps (8DPSK)

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

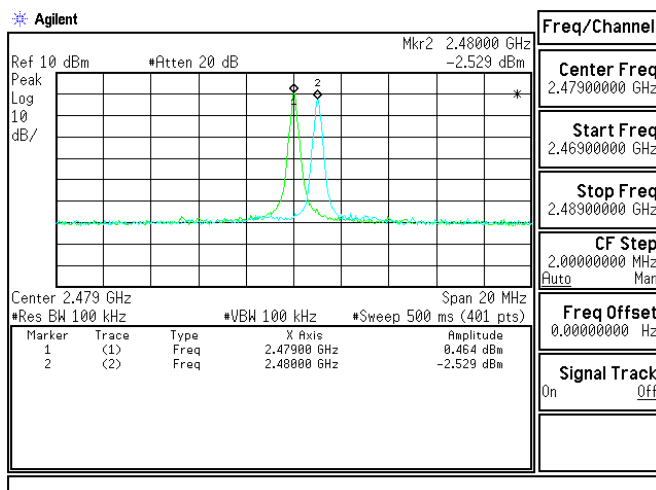
Channel 00 2402MHz



Channel 39 2441MHz



Channel 78 2480 MHz



9. Dwell Time

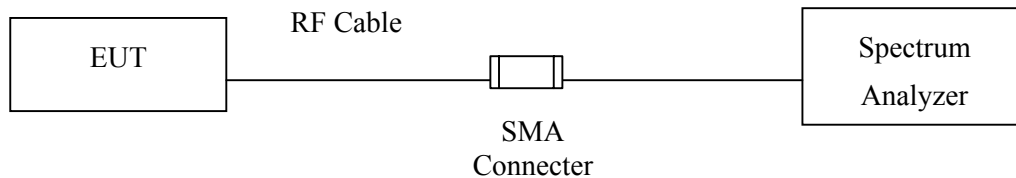
9.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	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. 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.

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

± 25msec

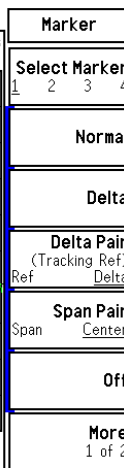
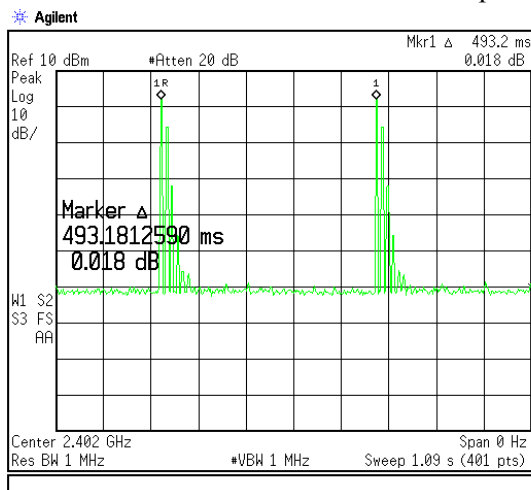
9.6. Test Result of Dwell Time

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

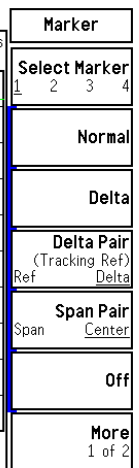
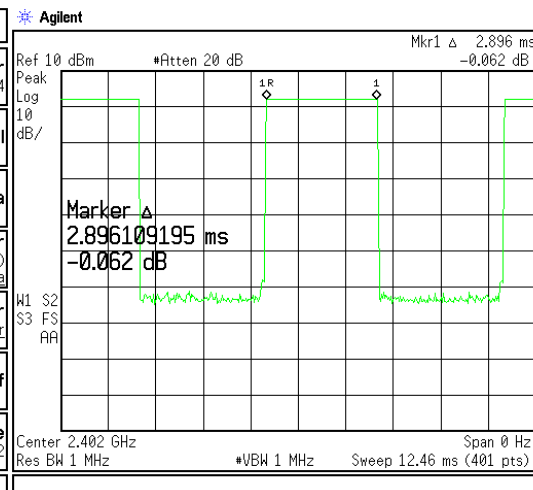
Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	493	2896	185.6259635	400	Pass
39	2441	495	2927	186.8549495	400	Pass
78	2480	487	2864	185.8365503	400	Pass

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

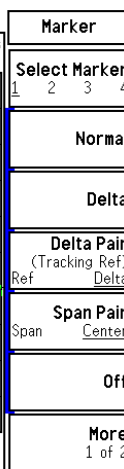
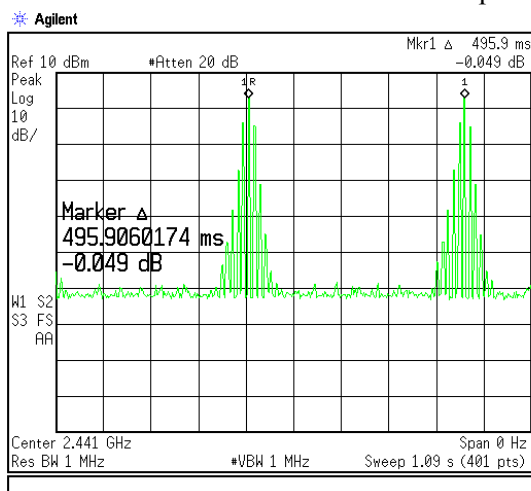
CH 2402MHz Time Interval between hops



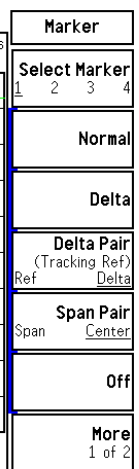
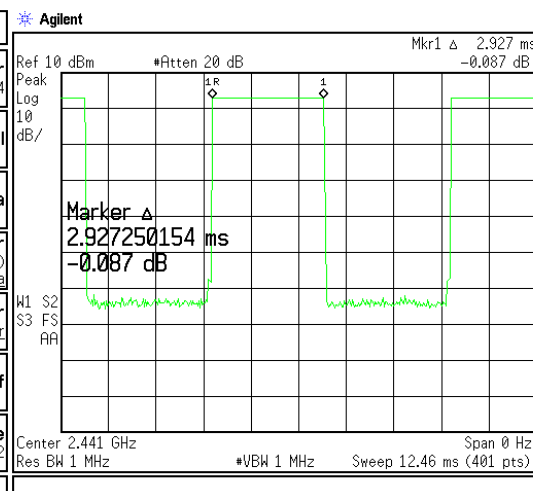
Transmission Time



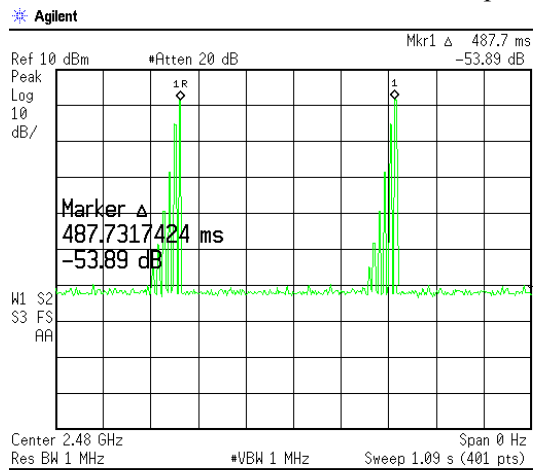
CH 2441MHz Time Interval between hops



Transmission Time

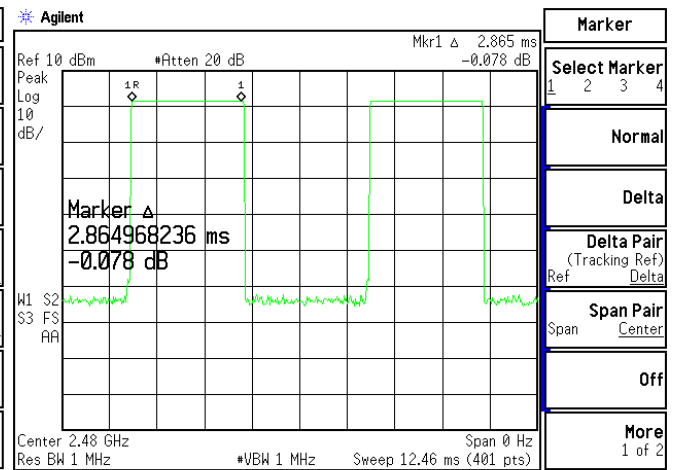


CH 2480MHz Time Interval between hops



Marker			
Select Marker	1	2	3
Normal			
Delta			
Delta Pair (Tracking Ref)	Ref	Delta	
Span Pair	Span	Center	
Off			
More	1 of 2		

Transmission Time



Marker			
Select Marker	1	2	3
Normal			
Delta			
Delta Pair (Tracking Ref)	Ref	Delta	
Span Pair	Span	Center	
Off			
More	1 of 2		

Note:

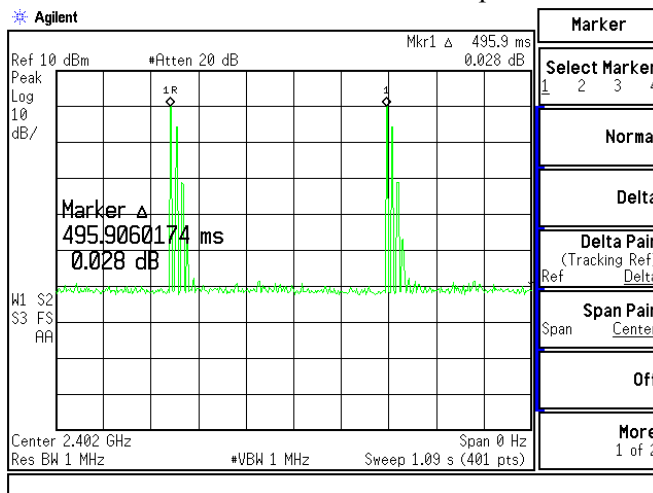
The dwell times of the packet type DH5 are tested.

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

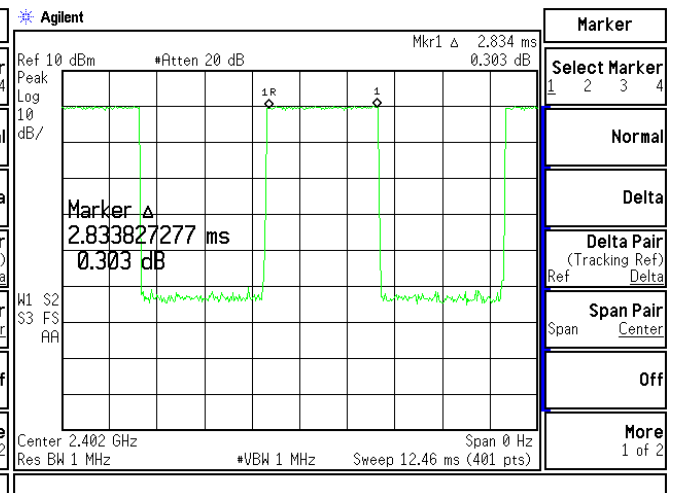
Channel No.	Frequency (MHz)	Time Interval between hops (ms)	Transmission Time (us)	Dwell Time (ms)	Limit (ms)	Result
00	2402	495	2833	180.8541414	400	Pass
39	2441	493	2927	187.6129817	400	Pass
78	2480	493	2896	185.6259635	400	Pass

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

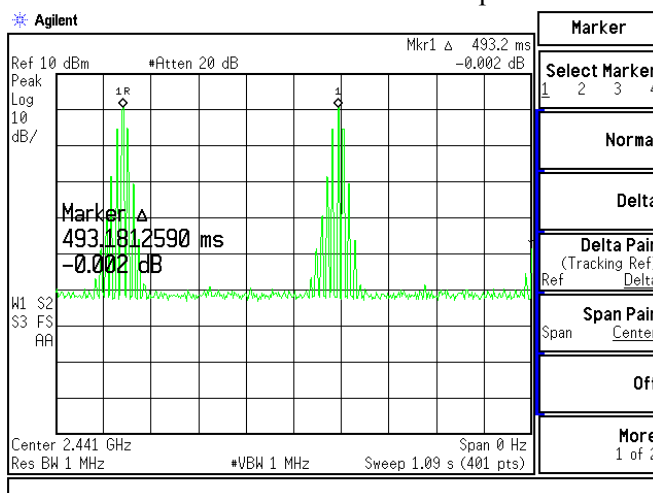
CH 2402MHz Time Interval between hops



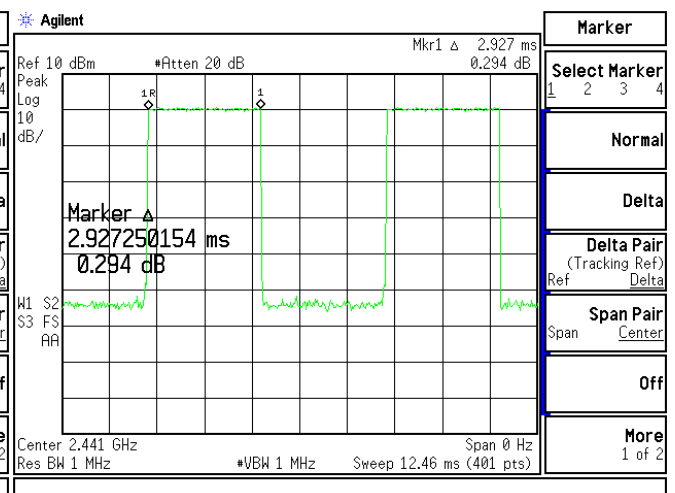
Transmission Time



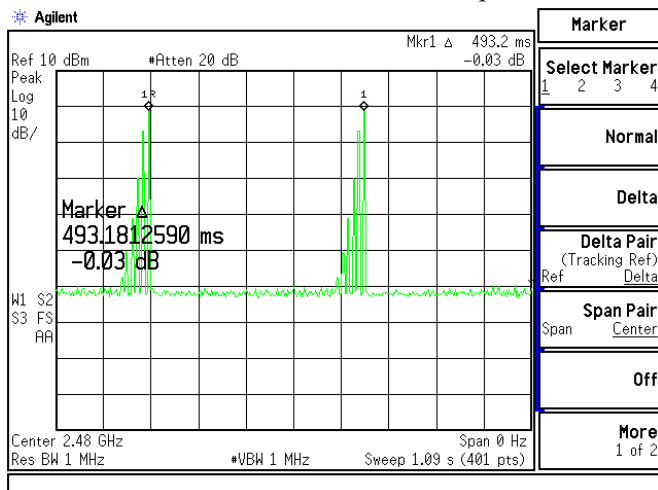
CH 2441MHz Time Interval between hops



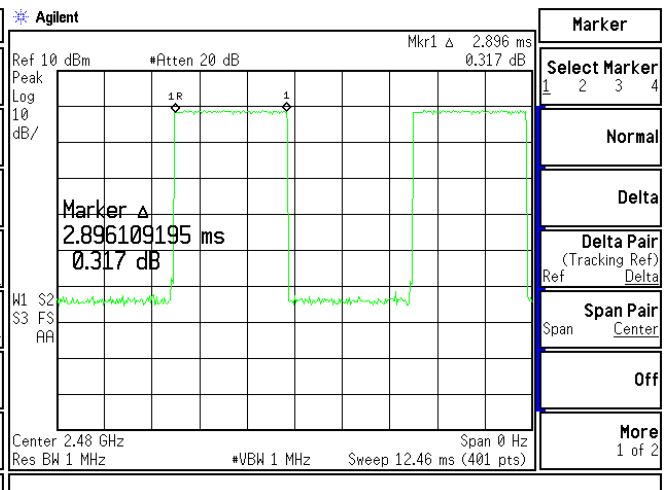
Transmission Time



CH 2480MHz Time Interval between hops



Transmission Time



Note:

The dwell times of the packet type DH5 are tested.

10. Occupied Bandwidth

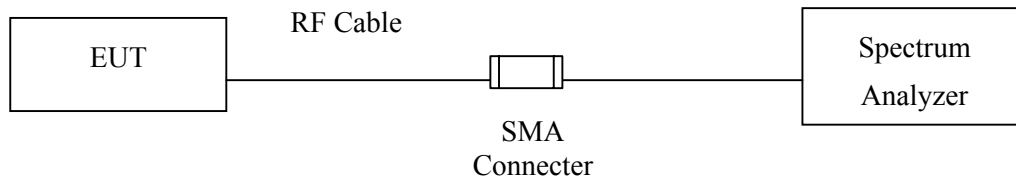
10.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Agilent	E4407B / US39440758	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.

10.2. Test Setup



10.3. Limits

N/A

10.4. 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.

10.5. Uncertainty

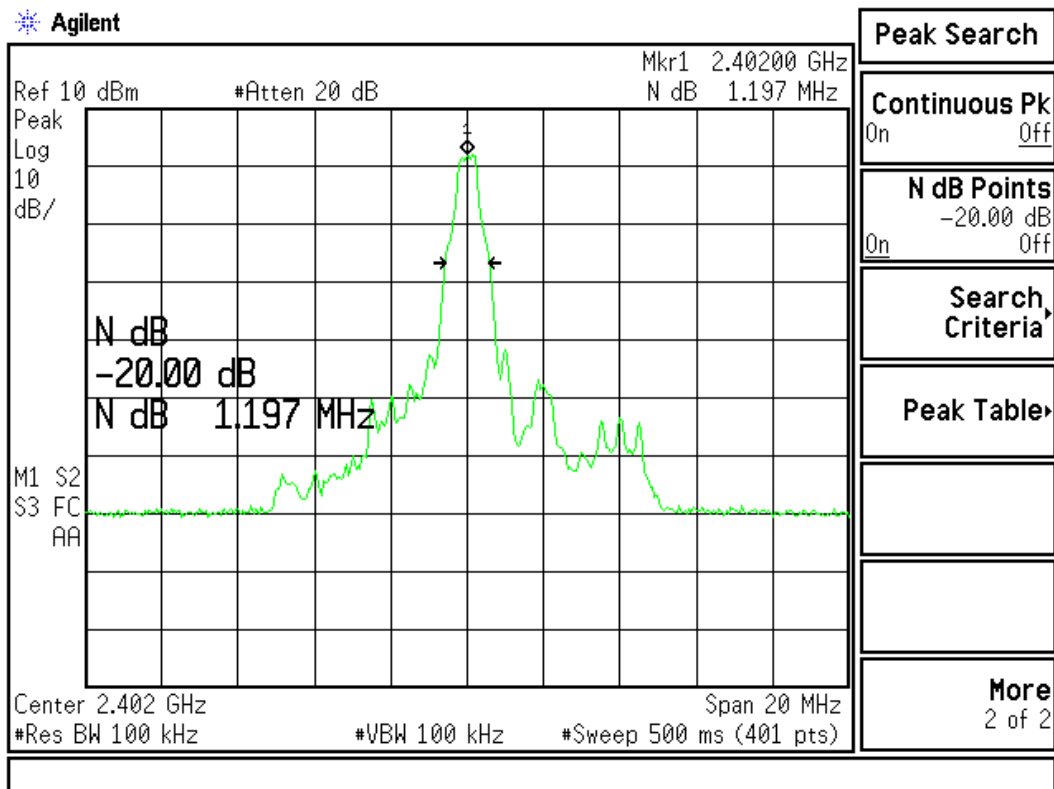
$\pm 150\text{Hz}$

10.6. Test Result of Occupied Bandwidth

Product : Table 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	1197	--	NA

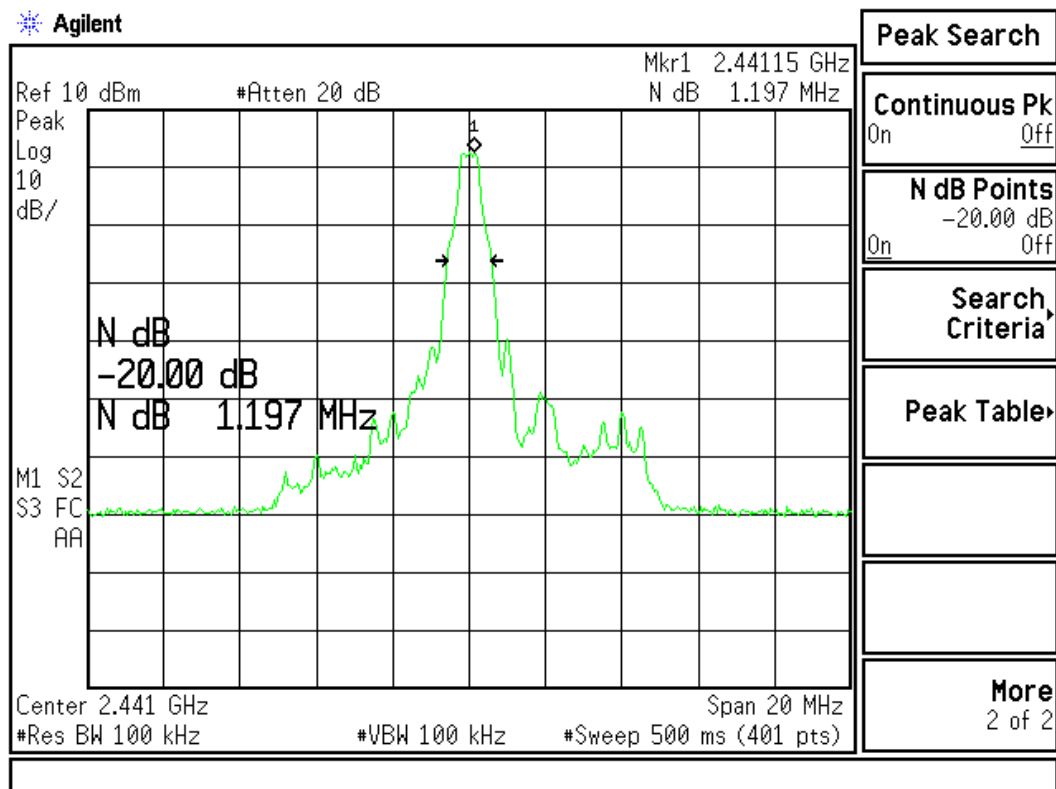
Figure Channel 00:



Product : Table 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	1197	--	NA

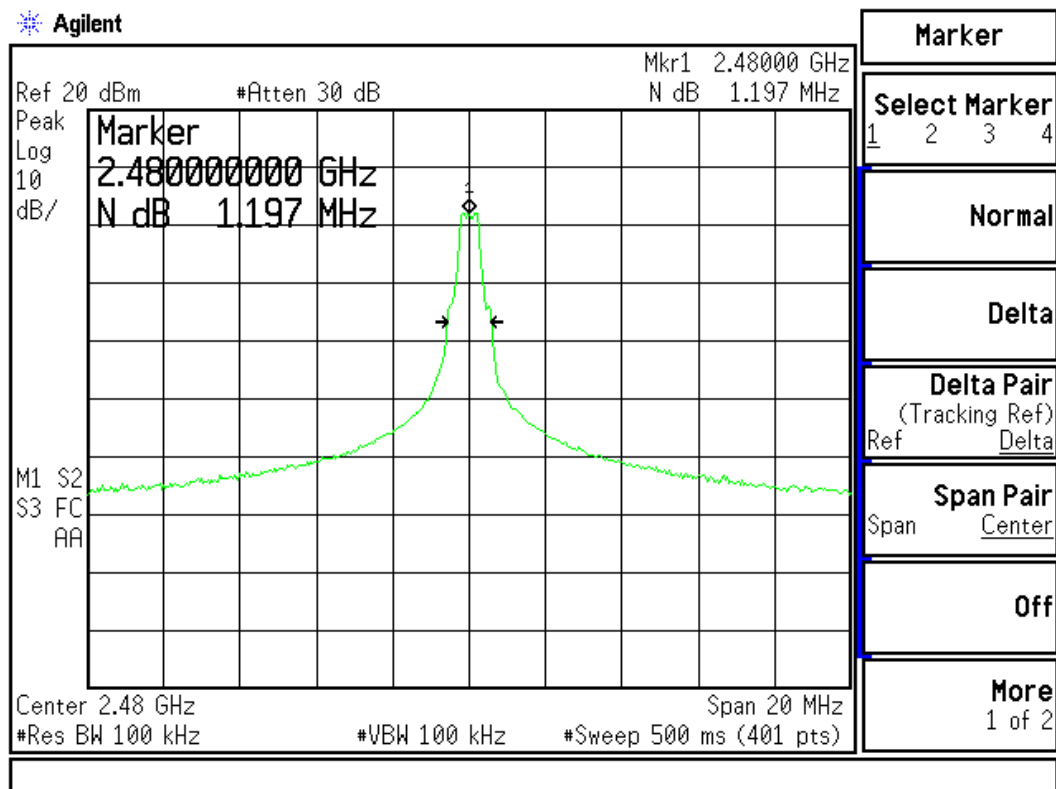
Figure Channel 39:



Product : Table 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	1197	--	NA

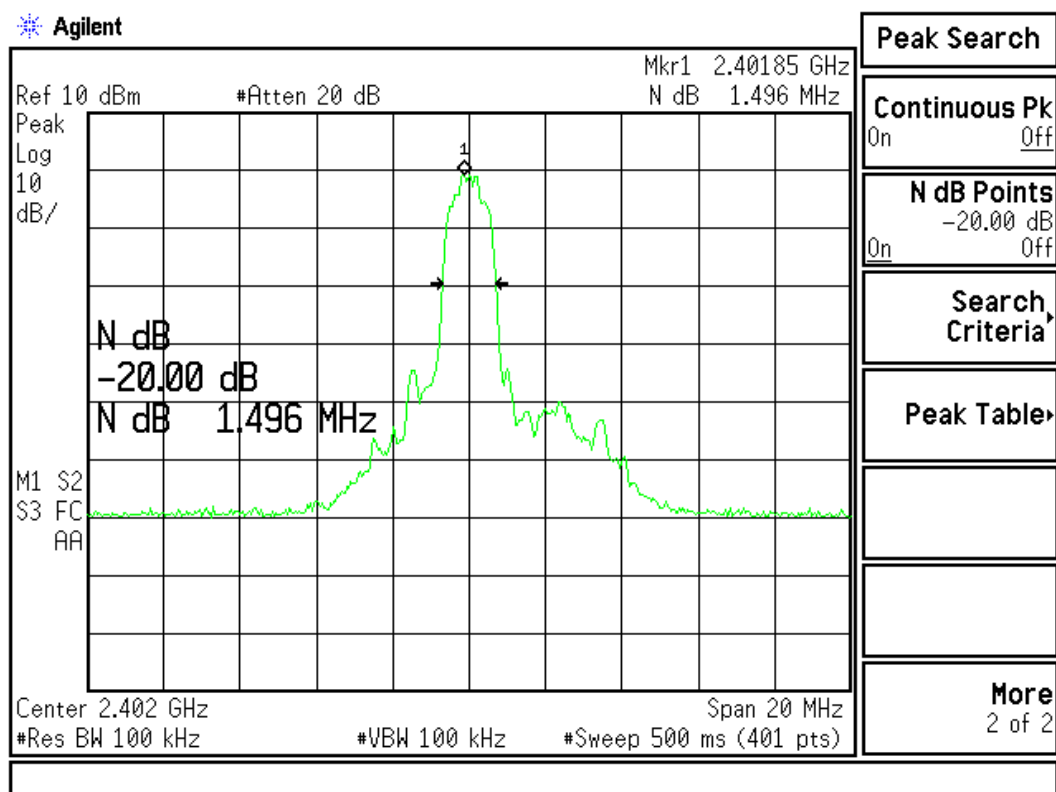
Figure Channel 78:



Product : Table 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	1496	--	NA

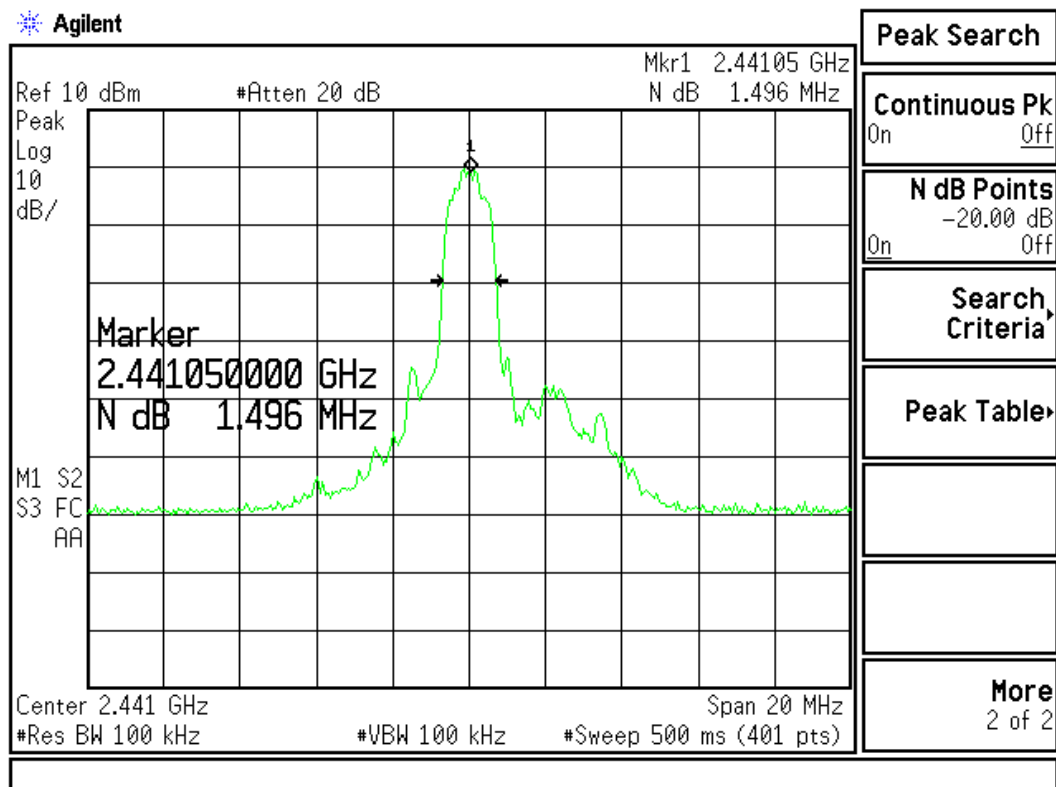
Figure Channel 00:



Product : Table 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	1496	--	NA

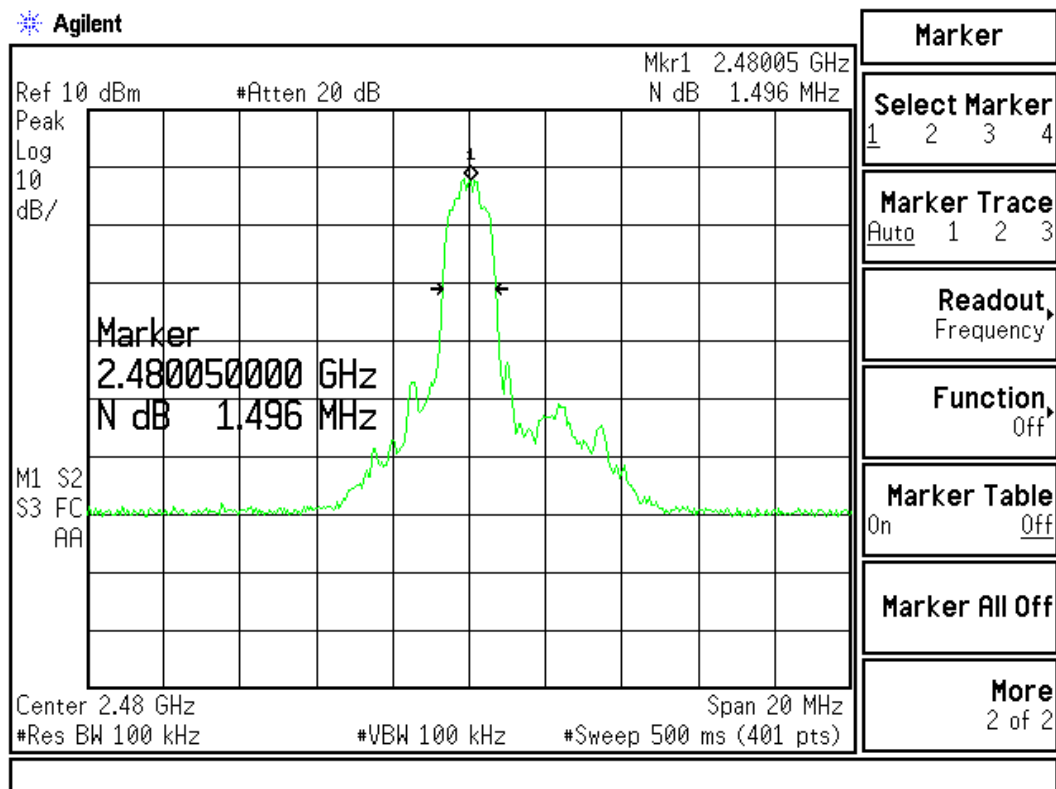
Figure Channel 39:



Product : Table 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	1496	--	NA

Figure Channel 78:



11. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs