TEST REPORT FOR CERTIFICATION
Class II Permissive Change

On Behalf of

Futaba Corporation

Wireless Modem with Serial Interface

Model No.：FDQ02T

FCC ID：AZP-FDQ02T

Prepared for : Futaba Corporation
1080 Yabutsuka Chosei-son Chosei-gun
Chiba, 299-4395 Japan.

Prepared by : Audix Technology Corporation
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

File Number	：	EM960560
Report Number	：	EM-F960182
Date of Test	：	Apr. 27, 2007
Date of Report	：	May 03, 2007

TABLE OF CONTENTS

TEST REPORT FOR CERTIFICATION

(Class II Permissive Change)

Applicant	:	Futaba Corporation
Manufacturer	:	Futaba Corporation
EUT Description	:	Wireless Modem with Serial Interface
FCC ID	:	AZP-FDQ02T
	(A) MODEL NO.	: FDQ02T
	(B) SERIAL NO.	: N/A
	(C) POWER SUPPLY	: DC 6 ~ 9V
	(D) TEST VOLTAGE	: DC 6V (DC Power Supply)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, OCTOBER 2006
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)

INDUSTRY CANADA RULES AND REGULATIONS RSS-210, NOV. 2001
(Canada RSS-210, §6.2.2 (o))

The device described above was tested by Audix Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and Audix Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology Corporation.

Date of Test: Apr. 27, 2007

Prepared by: Monica Chang May 10. 2007
(Monica Chang/Administrator)

Test Engineer: Ben Cheng May. 10. 2007
(Ben Cheng/Section Manager)

Approved & Authorized Signer: Leon Liu May. 10 2007
(Leon Liu/Vice President)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Wireless Modem with Serial Interface
Model Number	:	FDQ02T
FCC ID	:	AZP-FDQ02T
Applicant	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Manufacturer	:	Futaba Corporation 1080 Yabutsuka Chosei-son Chosei-gun Chiba, 299-4395 Japan.
Radio Technology	:	DSSS Modulation
Frequency Band	:	2405.376MHz ~ 2448.384MHz In 2.048MHz Separation
Tested Frequency	:	2405.376MHz (Channel 2) 2423.808MHz (Channel 20) 2448.384MHz (Channel 44)
Frequency Channel	:	22 channels
Antenna (Option)	:	(1)Antenna Type A (2)Antenna Type B
Antenna Gain	:	Antenna Type A: 2.14dBi (Cable Loss =0.5dB) Antenna Type B: 2.14dBi (Cable Loss =0.5dB)
Communication Cable (Option)	:	Non-Shielded, Detachable, 0.15m
Date of Receipt of Sample	:	Apr. 16, 2007
Date of Test	:	Apr. 27, 2007

Remark:

1. This EUT has two different antennas (RF Connector: SMD Type).
   Inform user that any change and modify is prohibited.
2. This EUT is an upgrade version of original FCC ID AZP-FDQ02T. The purpose for this report is due to **receiver circuit change**.
3. Radiated emission measurement and band edges measurements were performed and all the results are recorded in this report.
4. The other test results not listed in this report aren't affected by such change. Therefore, the measurements are not required.

1.2. Tested Supporting System Details

1.2.1. PC SYSTEM

Model Number	:	HP VECTRA XE320
Serial Number	:	SG21101967
FCC ID	:	By DoC
BSMI ID	:	3912A318
Manufacturer	:	First International Computer (Brand: HP)
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. LCD MONITOR (TO PC SYSTEM)

Model Number	:	D5063M
Serial Number	:	CN206A6568
FCC ID	:	ARSLM562H
BSMI ID	:	R33037
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.
D-Sub Cable	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
AC Adapter	:	Delta, M/N ADP-40TB BSMI ID 3892D142 Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.3. KEYBOARD (TO PC SYSTEM)

Model Number	:	AS-KBA000
Serial Number	:	C0602118425
FCC ID	:	By DoC
BSMI ID	:	T3A002
Manufacturer	:	Siltek (Brand: ASUS)
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.4. USB MOUSE (TO PC SYSTEM)

Model Number	:	M-UV69a
Serial Number	:	HCB60403088
FCC ID	:	By DoC
BSMI ID	:	T4A126
Manufacturer	:	LOGITECH
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.5. DC POWER SUPPLY CONVERSION BOARD

Model Number	:	3303A
Serial Number	:	721773
Manufacturer	:	TOP WARD
DC Power Cable *2	:	Non-Shielded, Detachable, 0.75m + 0.3m *2 (To EUT) +0.7m *2 (To Conversion Board)
AC Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.6. CONVERSION BOARD

Part Number	:	050200008
Serial Number	:	N/A
Manufacturer	:	FUTABA
RS-232 Cable	:	Shielded, Detachable, 1.5m (To PC System)

1.3. Description of Test Facility

Name of Firm : **Audix Technology Corporation**
EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility (C2/AC) : **Semi-Anechoic Chamber**
No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
Taipei County 24443, Taiwan, R.O.C.

May. 16, 2003 File on
Federal Communication Commission
Registration Number: 90993

NVLAP Lab. Code : 200077-0
(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.94dB
	Above 1GHz	± 5.02dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Band edges	± 0.13dB

2. RADIATED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

2.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

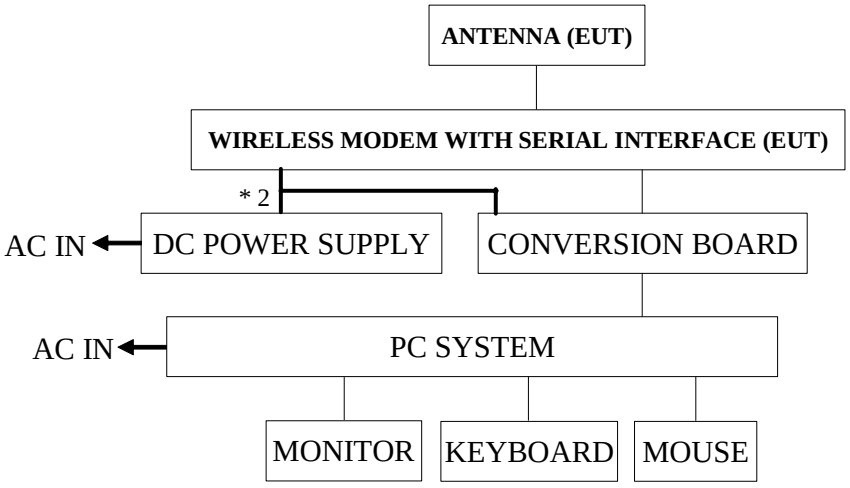
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Aug. 23, 06’	Aug. 22, 07’
2.	Test Receiver	R & S	ESCS30	100265	Sep. 19, 06’	Sep. 18, 07’
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 03, 07’	Mar. 02, 08’
4.	Biconical Antenna	CHASE	VBA6106A	1264	Apr. 11, 07’	Apr. 10, 08’
5.	Log Periodic Antenna	Schwarzbeck	UHALP9108-A	0139	Apr. 11, 07’	Apr. 10, 08’

2.1.2.For Frequency Above 1GHz (at Semi-Anechoic Chamber)

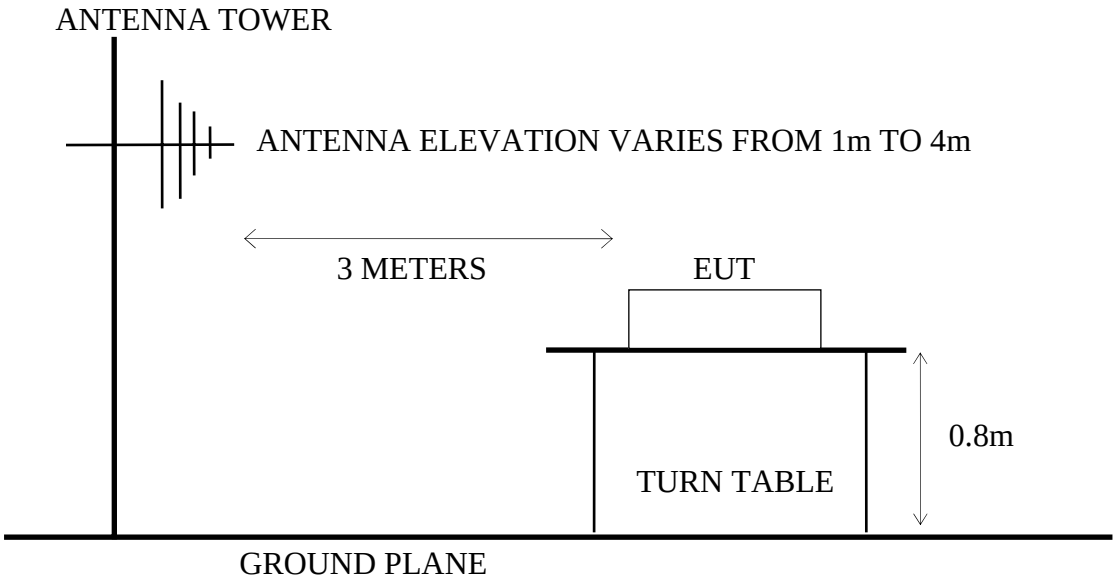
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00272	Aug. 23, 06’	Aug. 22, 07’
2.	Pre-Amplifier	HP	8449B	3008A01284	Jun. 30, 06’	Jun. 29, 07’
3.	3.5G High Pass Filter	HP	84300-80038	005	Jan. 11, 07’	Jan. 10, 08’
4.	Notch Filter	EWT	EWT-14-0070-R1	G2	Dec. 08, 06’	Dec. 07, 07’
5.	Horn Antenna	EMCO	3115	9609-4927	Jul. 03, 06’	Jul. 02, 07’
6.	Horn Antenna	EMCO	3116	2653	Oct. 04, 06’	Oct. 03, 07’

2.2. Test Setup

2.2.1. Block Diagram of connection between EUT and simulators



2.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



2.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The tighter limit applies at the edge between two frequency bands.
(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) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
(5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

2.4. Operating Condition of EUT

2.4.1. Setup the EUT and simulator as shown on 2.2.

2.4.2. Turned on the power of all equipment.

2.4.3. The PC system running the test program “Futaba Term” enable the EUT to transmit and receive data at three frequencies 2405.376MHz, 2423.808MHz and 2448.384MHz during all testing.

2.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

The bandwidth of the Spectrum Analyzer was set at 1MHz.

The frequency range from 30MHz to 25GHz (Up to 10^{th} harmonics from fundamental frequency) was checked.

2.6. Test Results

PASSED. (All the emissions not reported below are too low against the official limits.)

EUT : Wireless Modem with Serial Interface M/N : FDQ02T

Test Date : Apr. 27, 2007 Temperature : 22℃ Humidity : 50 %

For Frequency Range 30MHz~1000MHz:
The EUT with the following test modes was tested for frequency range 30MHz~1000MHz and all the test results are listed in section 2.6.1.

Mode	Antenna	Operation	Channel	Frequency
1.	Antenna Type A	Transmitting	2	2405.376MHz
2.			20	2423.808MHz
3.			44	2448.384MHz
4.		Receiving	20	2423.808MHz
5.	Antenna Type B	Transmitting	2	2405.376MHz
6.			20	2423.808MHz
7.			44	2448.384MHz
8.		Receiving	20	2423.808MHz

* Above all final readings were measured with **Quasi-Peak detector**.

For Frequency Range Above 1GHz:
The EUT was tested with the following test modes for frequency range above 1GHz and all the test results are listed in section 2.6.2.

Mode	Antenna	Operation	Channel	Frequency
1.	Antenna Type A	Transmitting	2	2405.376MHz
2.			20	2423.808MHz
3.			44	2448.384MHz
4.		Receiving	20	2423.808MHz
5.	Antenna Type B	Transmitting	2	2405.376MHz
6.			20	2423.808MHz
7.			44	2448.384MHz
8.		Receiving	20	2423.808MHz

* Above all final readings were measured with **Peak detector and Average detector**.

For Restricted Bands:
The EUT was tested in restricted bands and all the test results are listed in section 2.6.3. (The restricted bands defined in part 15.205(a))

Mode	Antenna	Channel and Frequency
1.	Antenna Type A	(1)Channel 2, 2405.376MHz (2)Channel 44, 2448.384MHz
2.	Antenna Type B	

2.6.1. Frequency Range 30-1000MHz

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
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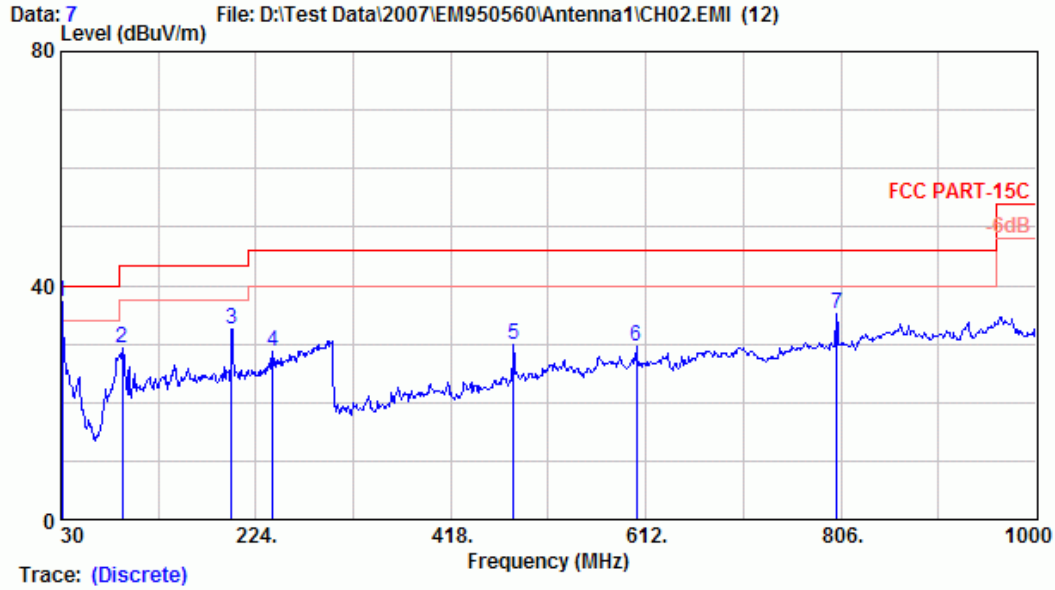

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2405.376MHz(Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	11.33	37.24	40.00	2.76	
2	91.110	15.90	2.00	11.26	29.16	43.50	14.34	
3	199.750	22.09	3.00	7.55	32.64	43.50	10.86	
4	240.490	23.10	3.40	2.22	28.72	46.00	17.28	
5	480.080	18.68	6.05	5.20	29.93	46.00	16.07	
6	602.300	21.37	6.30	2.00	29.67	46.00	16.33	
7	802.120	24.17	6.90	4.10	35.17	46.00	10.83	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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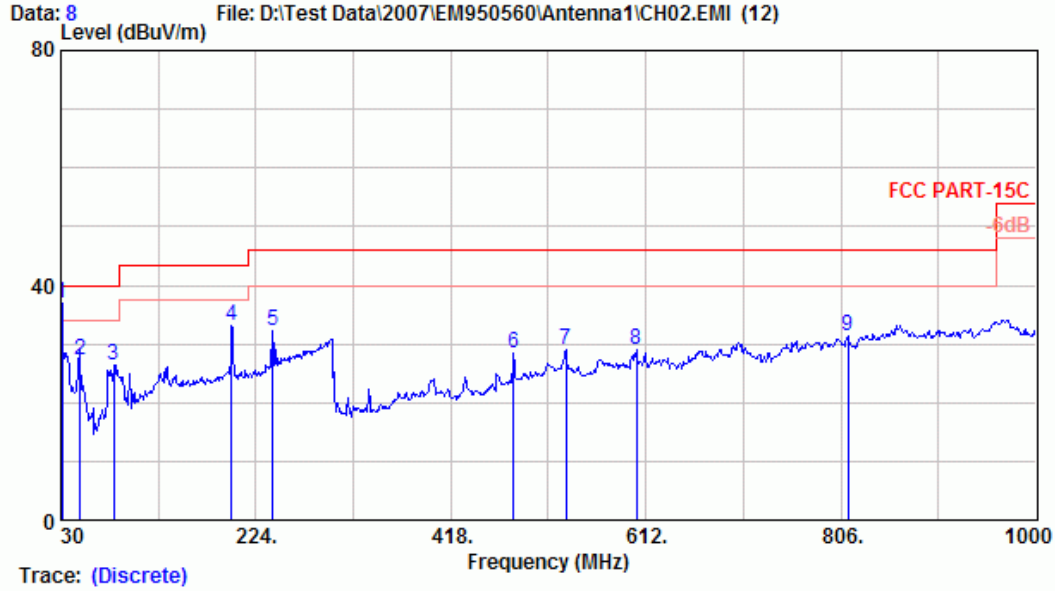

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2405.376MHz(Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	11.03	36.94	40.00	3.06	
2	49.400	16.83	1.50	8.81	27.14	40.00	12.86	
3	82.380	14.19	1.90	10.15	26.24	40.00	13.76	
4	199.750	22.09	3.00	8.14	33.23	43.50	10.27	
5	240.490	23.10	3.40	5.64	32.14	46.00	13.86	
6	480.080	18.68	6.05	3.81	28.54	46.00	17.46	
7	532.460	19.64	7.00	2.38	29.02	46.00	16.98	
8	602.300	21.37	6.30	1.39	29.06	46.00	16.94	
9	812.790	24.02	7.00	0.26	31.28	46.00	14.72	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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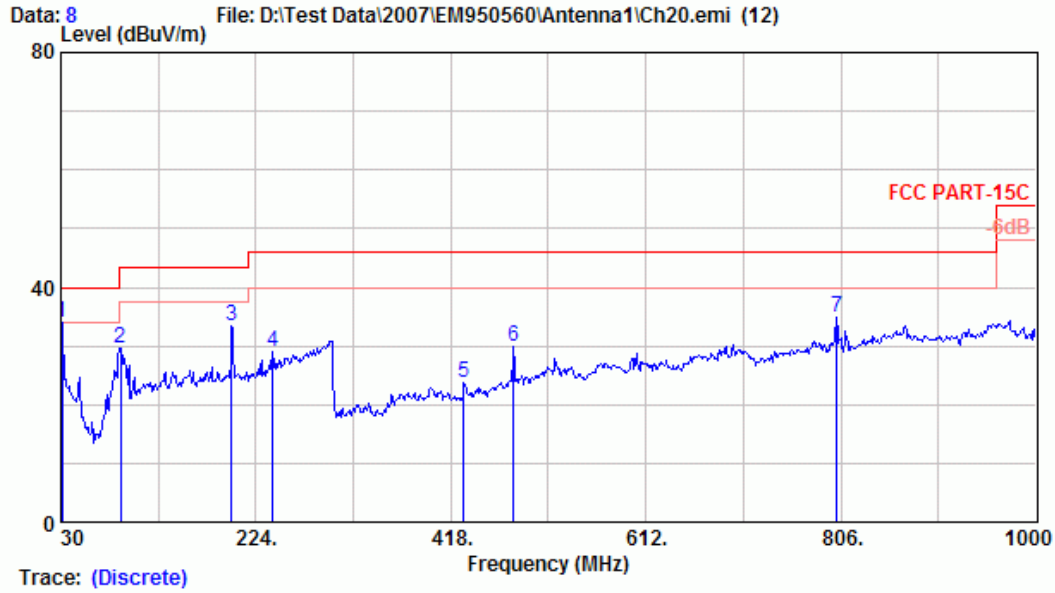

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Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2423.808MHz(Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	8.19	34.10	40.00	5.90	
2	89.170	15.57	2.00	12.10	29.67	43.50	13.83	
3	199.750	22.09	3.00	8.45	33.54	43.50	9.96	
4	240.490	23.10	3.40	2.38	28.88	46.00	17.12	
5	430.610	17.26	5.20	1.18	23.64	46.00	22.36	
6	480.080	18.68	6.05	5.06	29.79	46.00	16.21	
7	802.120	24.17	6.90	3.69	34.76	46.00	11.24	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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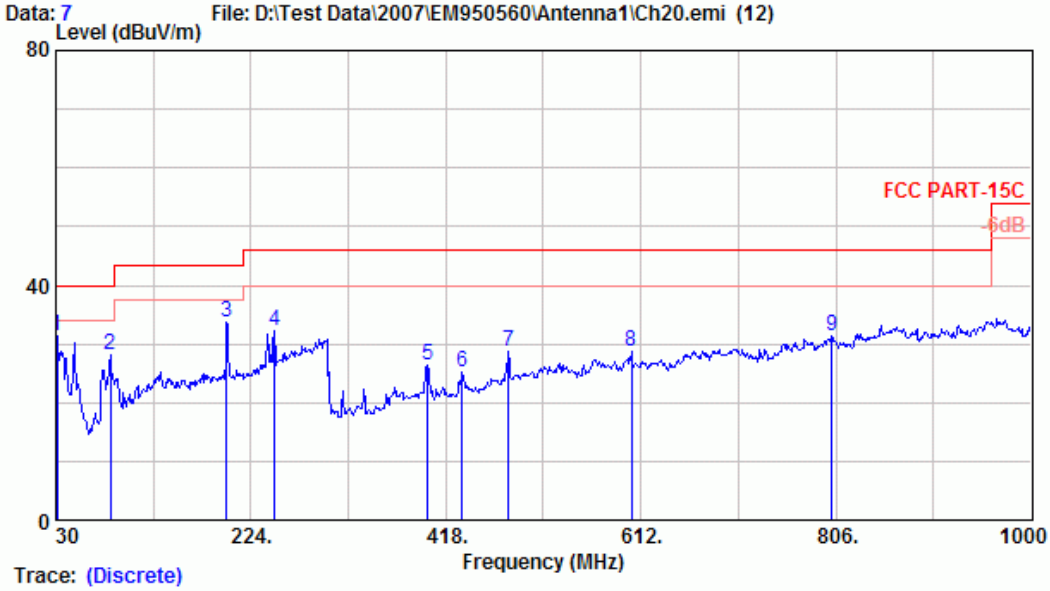

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Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2423.808MHz(Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	5.41	31.32	40.00	8.68	
2	84.320	14.58	1.90	11.72	28.20	40.00	11.80	
3	199.750	22.09	3.00	8.56	33.65	43.50	9.85	
4	247.280	23.61	3.50	5.27	32.38	46.00	13.62	
5	399.570	17.69	4.80	3.93	26.41	46.00	19.59	
6	434.490	17.36	5.24	2.67	25.27	46.00	20.73	
7	480.080	18.68	6.05	4.11	28.84	46.00	17.16	
8	602.300	21.37	6.30	0.97	28.64	46.00	17.36	
9	802.120	24.17	6.90	0.36	31.43	46.00	14.57	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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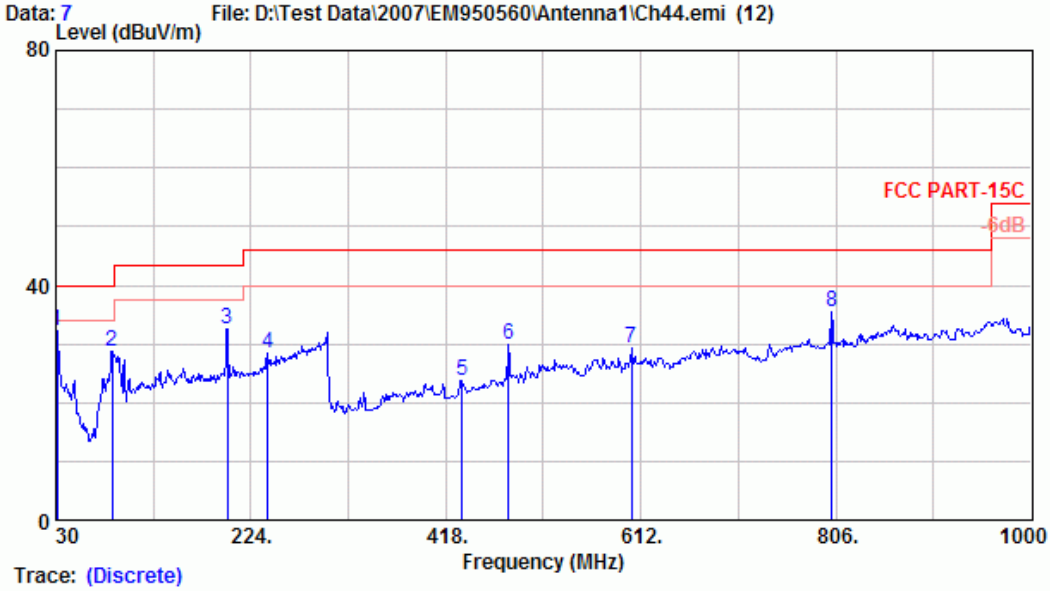

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Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	6.36	32.27	40.00	7.73	
2	86.260	14.98	1.90	11.86	28.74	40.00	11.26	
3	200.720	22.08	3.00	7.56	32.64	43.50	10.86	
4	240.490	23.10	3.40	2.06	28.56	46.00	17.44	
5	434.490	17.36	5.24	1.20	23.80	46.00	22.20	
6	480.080	18.68	6.05	5.25	29.98	46.00	16.02	
7	602.300	21.37	6.30	1.77	29.44	46.00	16.56	
8	802.120	24.17	6.90	4.35	35.42	46.00	10.58	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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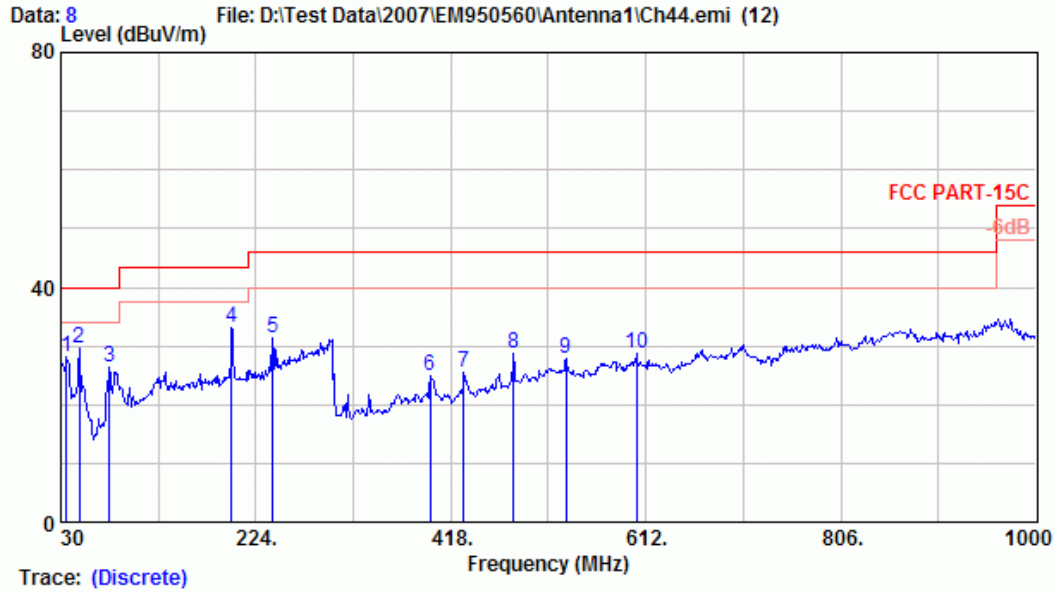

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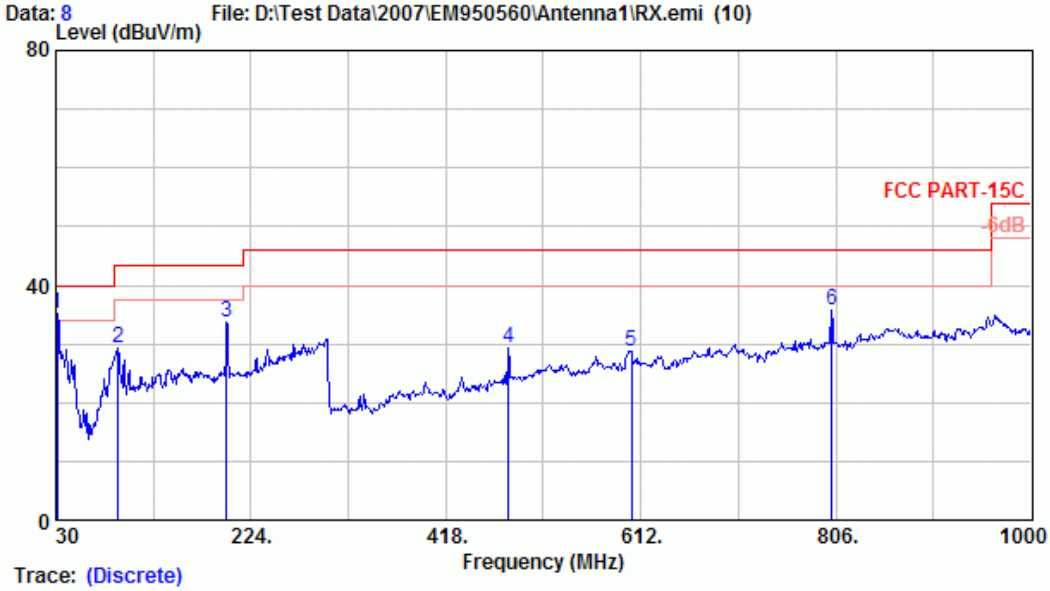
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384MHz (Antenna A)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	35.820	22.49	1.20	4.33	28.01	40.00	11.99	
2	48.430	17.32	1.40	10.79	29.51	40.00	10.49	
3	78.500	13.43	1.80	11.19	26.42	40.00	13.58	
4	199.750	22.09	3.00	8.05	33.14	43.50	10.36	
5	240.490	23.10	3.40	4.92	31.42	46.00	14.58	
6	397.630	17.64	4.80	2.52	24.96	46.00	21.04	
7	430.610	17.26	5.20	3.09	25.55	46.00	20.45	
8	480.080	18.68	6.05	4.02	28.75	46.00	17.25	
9	532.460	19.64	7.00	1.33	27.97	46.00	18.03	
10	602.300	21.37	6.30	0.95	28.62	46.00	17.38	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.



Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : RX2423.808MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	9.14	35.05	40.00	4.95	
2	92.080	16.08	2.00	11.34	29.41	43.50	14.09	
3	199.750	22.09	3.00	8.51	33.60	43.50	9.90	
4	480.080	18.68	6.05	4.62	29.35	46.00	16.65	
5	602.300	21.37	6.30	1.18	28.85	46.00	17.15	
6	802.120	24.17	6.90	4.82	35.89	46.00	10.11	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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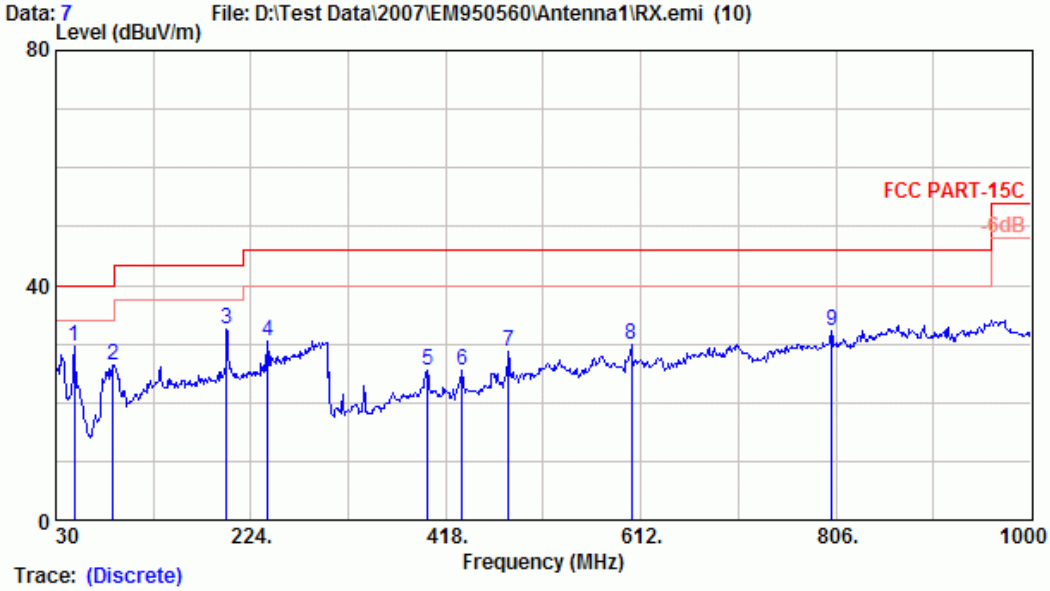
Email:ttemc@ttemc.



Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : RX2423.808MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	48.430	17.32	1.40	10.74	29.46	40.00	10.54	
2	87.230	15.21	2.00	9.30	26.52	40.00	13.48	
3	199.750	22.09	3.00	7.34	32.43	43.50	11.07	
4	240.490	23.10	3.40	3.87	30.37	46.00	15.63	
5	399.570	17.69	4.80	3.01	25.49	46.00	20.51	
6	434.490	17.36	5.24	2.90	25.50	46.00	20.50	
7	480.080	18.68	6.05	4.11	28.84	46.00	17.16	
8	602.300	21.37	6.30	2.11	29.78	46.00	16.22	
9	802.120	24.17	6.90	1.16	32.23	46.00	13.77	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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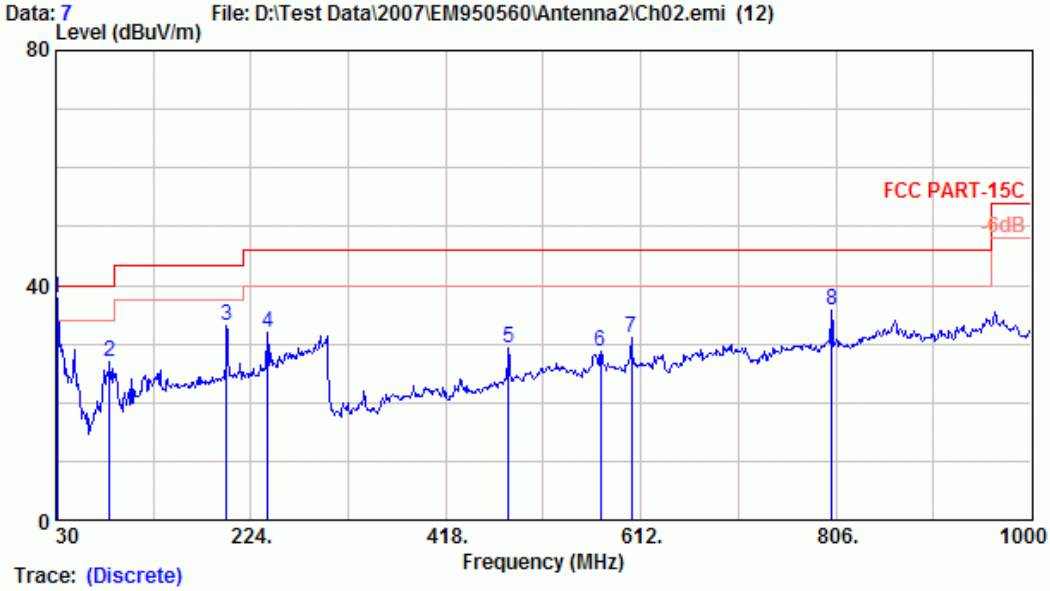

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2405.376MHz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	38.28	37.70	40.00	2.30	
2	83.350	14.41	1.90	37.11	27.10	40.00	12.90	
3	199.750	22.09	3.00	33.94	33.23	43.50	10.27	
4	240.490	23.10	3.40	31.16	31.91	46.00	14.09	
5	480.080	18.68	6.05	31.43	29.39	46.00	16.61	
6	572.230	21.12	6.50	28.12	28.63	46.00	17.37	
7	602.300	21.37	6.30	30.74	31.21	46.00	14.79	
8	802.120	24.17	6.90	31.84	35.61	46.00	10.39	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

AUDIX TECHNOLOGY Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
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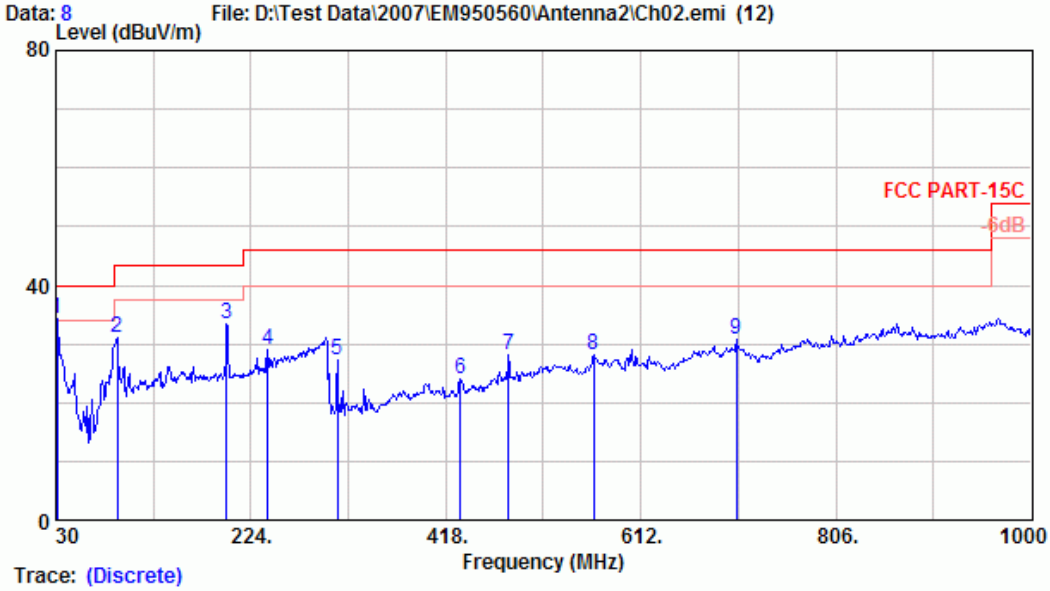

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2405.376MHz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	34.81	34.23	40.00	5.77	
2	91.110	15.90	2.00	39.51	31.10	43.50	12.40	
3	199.750	22.09	3.00	34.25	33.54	43.50	9.96	
4	240.490	23.10	3.40	28.23	28.98	46.00	17.02	
5	310.330	14.93	4.00	34.08	27.19	46.00	18.81	
6	432.550	17.28	5.20	28.12	23.92	46.00	22.08	
7	480.080	18.68	6.05	30.15	28.11	46.00	17.89	
8	565.440	20.49	6.60	27.98	28.01	46.00	17.99	
9	707.060	23.55	6.60	27.92	30.68	46.00	15.32	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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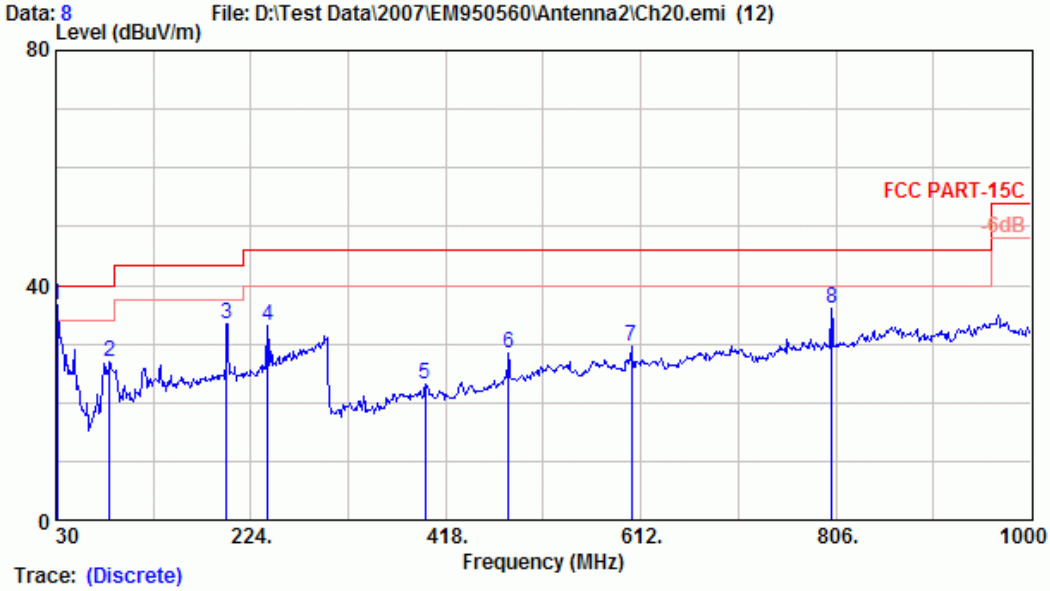

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2423.808MHz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	10.75	36.66	40.00	3.34	
2	83.350	14.41	1.90	10.57	26.88	40.00	13.12	
3	199.750	22.09	3.00	8.45	33.54	43.50	9.96	
4	240.490	23.10	3.40	6.49	32.99	46.00	13.01	
5	397.630	17.64	4.80	0.68	23.12	46.00	22.88	
6	480.080	18.68	6.05	3.76	28.49	46.00	17.51	
7	602.300	21.37	6.30	1.91	29.58	46.00	16.42	
8	802.120	24.17	6.90	4.91	35.98	46.00	10.02	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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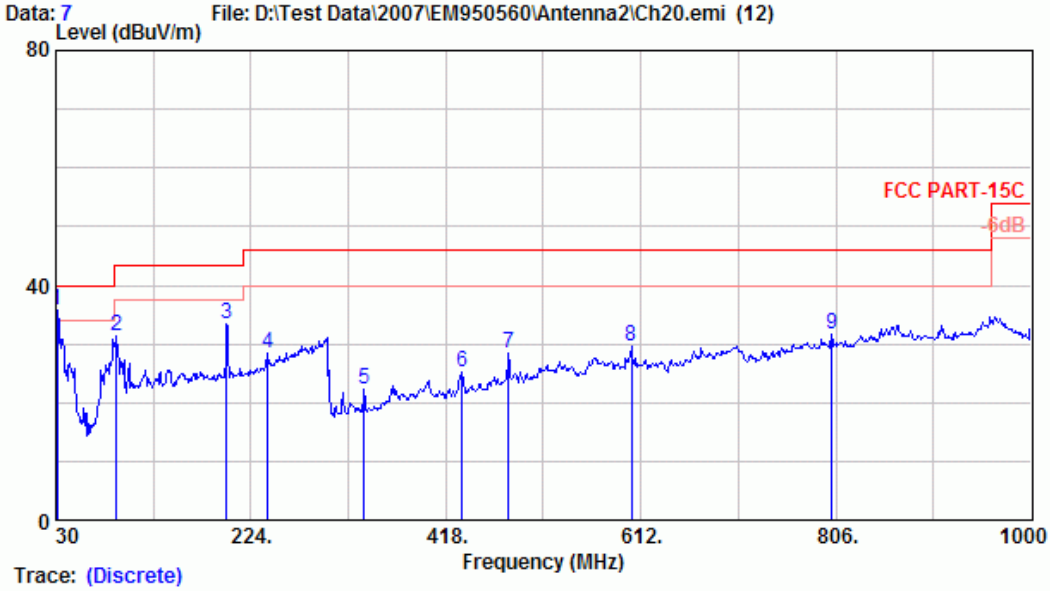

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2423.808MHz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	9.79	35.70	40.00	4.30	
2	90.140	15.77	2.00	13.66	31.43	43.50	12.07	
3	199.750	22.09	3.00	8.33	33.42	43.50	10.08	
4	240.490	23.10	3.40	1.99	28.49	46.00	17.51	
5	336.520	15.08	4.20	2.84	22.13	46.00	23.87	
6	434.490	17.36	5.24	2.55	25.15	46.00	20.85	
7	480.080	18.68	6.05	3.83	28.56	46.00	17.44	
8	602.300	21.37	6.30	1.86	29.53	46.00	16.47	
9	802.120	24.17	6.90	0.64	31.71	46.00	14.29	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
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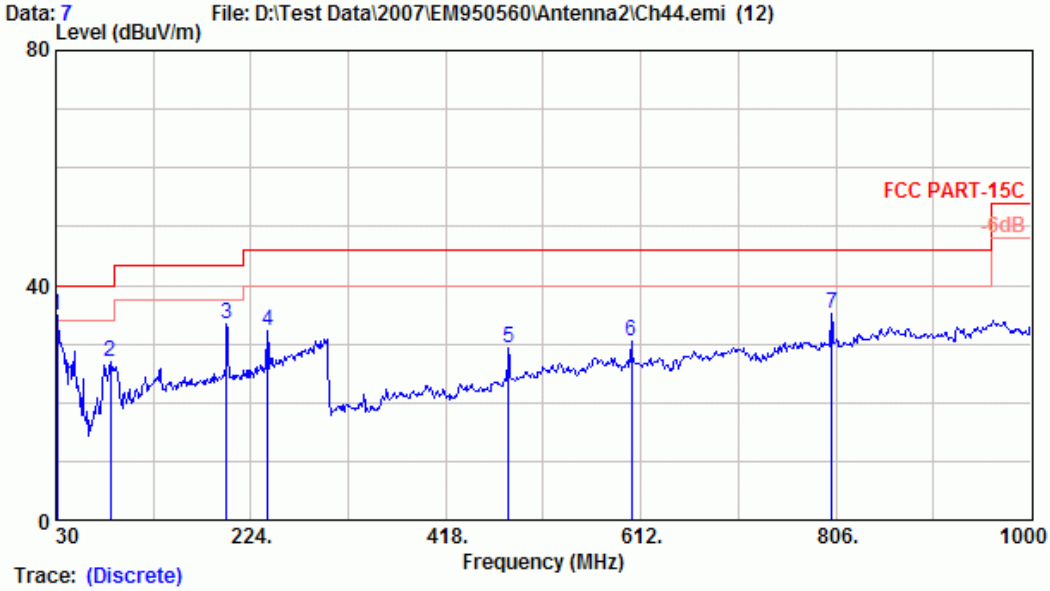

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384Hz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	8.96	34.87	40.00	5.13	
2	84.320	14.58	1.90	10.46	26.94	40.00	13.06	
3	199.750	22.09	3.00	8.40	33.49	43.50	10.01	
4	240.490	23.10	3.40	5.66	32.16	46.00	13.84	
5	480.080	18.68	6.05	4.66	29.39	46.00	16.61	
6	602.300	21.37	6.30	2.76	30.43	46.00	15.57	
7	802.120	24.17	6.90	4.20	35.27	46.00	10.73	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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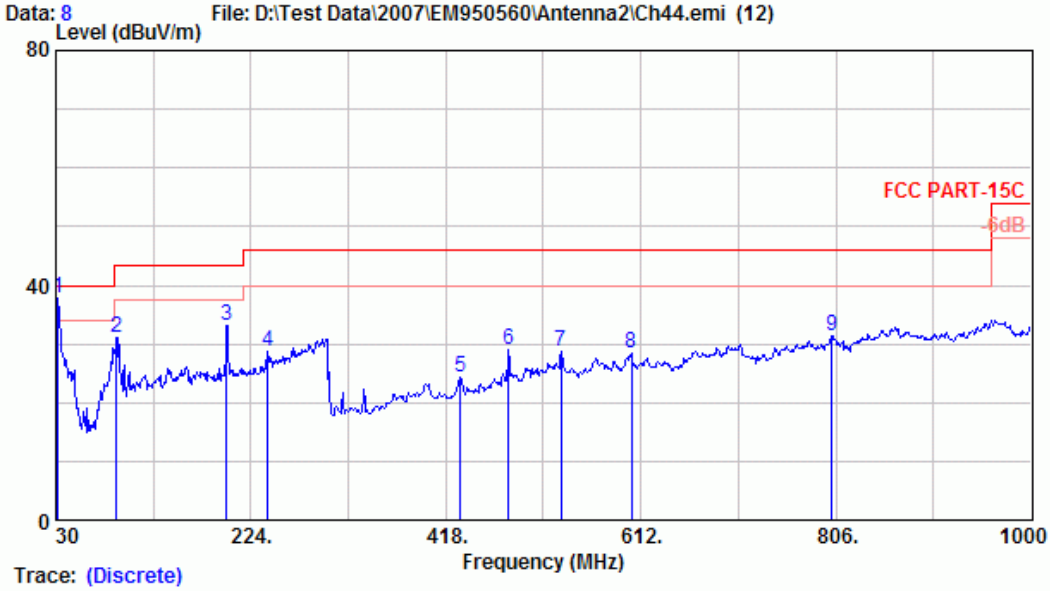

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384Hz(Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	31.940	24.26	1.10	12.55	37.91	40.00	2.09	
2	90.140	15.77	2.00	13.34	31.11	43.50	12.39	
3	199.750	22.09	3.00	8.07	33.16	43.50	10.34	
4	240.490	23.10	3.40	2.36	28.86	46.00	17.14	
5	432.550	17.28	5.20	1.73	24.20	46.00	21.80	
6	480.080	18.68	6.05	4.38	29.11	46.00	16.89	
7	532.460	19.64	7.00	2.06	28.70	46.00	17.30	
8	602.300	21.37	6.30	0.87	28.54	46.00	17.46	
9	802.120	24.17	6.90	0.41	31.48	46.00	14.52	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
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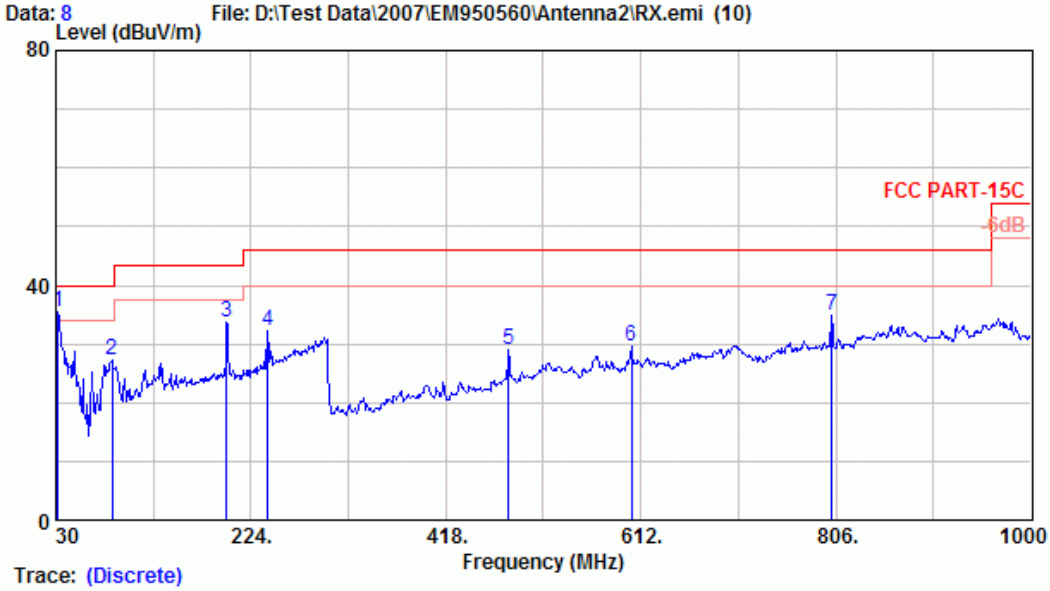

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : RX2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	31.940	24.26	1.10	10.07	35.43	40.00	4.57	
2	86.260	14.98	1.90	10.44	27.32	40.00	12.68	
3	199.750	22.09	3.00	8.75	33.84	43.50	9.66	
4	240.490	23.10	3.40	5.66	32.16	46.00	13.84	
5	480.080	18.68	6.05	4.29	29.02	46.00	16.98	
6	602.300	21.37	6.30	1.93	29.60	46.00	16.40	
7	802.120	24.17	6.90	3.71	34.78	46.00	11.22	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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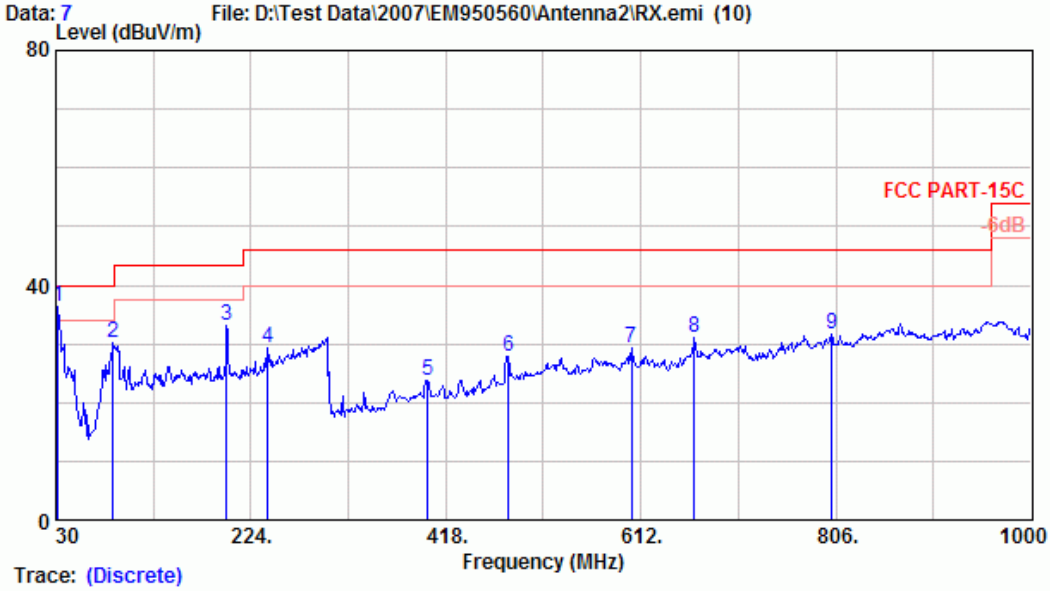


Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : RX2423.808MHz (Antenna B)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	31.940	24.26	1.10	11.11	36.47	40.00	3.53	
2	87.230	15.21	2.00	13.01	30.22	40.00	9.78	
3	199.750	22.09	3.00	8.17	33.26	43.50	10.24	
4	240.490	23.10	3.40	2.83	29.33	46.00	16.67	
5	399.570	17.69	4.80	1.26	23.74	46.00	22.26	
6	480.080	18.68	6.05	3.03	27.76	46.00	18.24	
7	602.300	21.37	6.30	1.68	29.35	46.00	16.65	
8	665.350	22.65	6.40	1.97	31.02	46.00	14.98	
9	802.120	24.17	6.90	0.55	31.62	46.00	14.38	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

2.6.2. Frequency Range Above 1GHz

Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	10.66	40.06	74.00	33.94	Peak
1065.520	25.23	4.32	10.96	40.51	74.00	33.49	Peak
1325.920	25.34	4.91	10.83	41.08	74.00	32.92	Peak
1460.320	25.39	5.31	13.82	44.52	74.00	29.48	Peak
1729.120	26.58	7.04	7.81	41.42	74.00	32.58	Peak
1860.160	27.20	6.59	5.80	39.59	74.00	34.41	Peak
1989.520	27.75	5.91	7.71	41.38	74.00	32.62	Peak
4814.740	33.64	9.14	9.59	52.37	74.00	21.63	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	9.90	39.30	74.00	34.70	Peak
1062.160	25.23	4.31	9.67	39.21	74.00	34.79	Peak
1196.560	25.29	4.58	8.99	38.86	74.00	35.14	Peak
1460.320	25.39	5.31	10.68	41.38	74.00	32.62	Peak
1729.120	26.58	7.04	6.63	40.24	74.00	33.76	Peak
2014.720	27.83	5.88	5.54	39.24	74.00	34.76	Peak
4814.740	33.64	9.14	4.83	47.61	74.00	26.39	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.92	35.31	54.00	18.69	Average
1065.520	25.23	4.32	6.58	36.13	54.00	17.87	Average
1325.920	25.34	4.91	4.39	34.64	54.00	19.36	Average
1460.320	25.39	5.31	7.97	38.67	54.00	15.33	Average
1729.120	26.58	7.04	3.93	37.54	54.00	16.46	Average
1860.160	27.20	6.59	1.44	35.23	54.00	18.77	Average
1989.520	27.75	5.91	3.74	37.41	54.00	16.59	Average
4814.740	33.64	9.14	3.46	46.24	54.00	7.76	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	4.73	34.12	54.00	19.88	Average
1062.160	25.23	4.31	5.75	35.29	54.00	18.71	Average
1196.560	25.29	4.58	5.36	35.23	54.00	18.77	Average
1460.320	25.39	5.31	5.75	36.45	54.00	17.55	Average
1729.120	26.58	7.04	2.66	36.27	54.00	17.73	Average
2014.720	27.83	5.88	1.81	35.52	54.00	18.48	Average
4814.740	33.64	9.14	-0.33	42.45	54.00	11.55	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test：	Apr. 27, 2007	Temperature：	22℃
EUT：	Wireless Modem with Serial Interface with Antenna Type A	Humidity：	50%
Test Mode：	Transmitting Mode, Channel: 20, Frequency: 2423.808MHz		

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	9.54	38.94	74.00	35.06	Peak
1199.920	25.29	4.59	9.01	38.88	74.00	35.12	Peak
1325.920	25.34	4.91	11.20	41.45	74.00	32.55	Peak
1460.320	25.39	5.31	11.65	42.35	74.00	31.65	Peak
1725.760	26.58	7.00	7.79	41.37	74.00	32.63	Peak
4848.580	33.71	9.15	10.28	53.15	74.00	20.85	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	9.56	38.96	74.00	35.04	Peak
1196.560	25.29	4.58	13.19	43.06	74.00	30.94	Peak
1456.960	25.39	5.31	10.60	41.30	74.00	32.70	Peak
1725.760	26.58	7.00	8.32	41.90	74.00	32.10	Peak
4848.580	33.71	9.15	5.16	48.03	74.00	25.97	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.24	34.63	54.00	19.37	Average
1199.920	25.29	4.59	4.79	34.67	54.00	19.33	Average
1325.920	25.34	4.91	5.58	35.83	54.00	18.17	Average
1460.320	25.39	5.31	5.68	36.38	54.00	17.62	Average
1725.760	26.58	7.00	3.86	37.43	54.00	16.57	Average
4848.580	33.71	9.15	4.37	47.24	54.00	6.76	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.13	34.52	54.00	19.48	Average
1196.560	25.29	4.58	7.60	37.47	54.00	16.53	Average
1456.960	25.39	5.31	5.72	36.42	54.00	17.58	Average
1725.760	26.58	7.00	3.25	36.82	54.00	17.18	Average
4848.580	33.71	9.15	-2.12	40.75	54.00	13.25	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

Test Mode： Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	10.78	40.18	74.00	33.82	Peak
1065.520	25.23	4.32	9.60	39.15	74.00	34.85	Peak
1191.520	25.29	4.56	10.28	40.13	74.00	33.87	Peak
1325.920	25.34	4.91	10.02	40.27	74.00	33.73	Peak
1465.360	25.39	5.33	13.38	44.09	74.00	29.91	Peak
1720.720	26.55	6.96	8.55	42.06	74.00	31.94	Peak
4899.340	33.85	9.16	9.08	52.10	74.00	21.90	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	11.15	40.55	74.00	33.45	Peak
1221.760	25.30	4.63	7.76	37.69	74.00	36.31	Peak
1465.360	25.39	5.33	10.64	41.35	74.00	32.65	Peak
1725.760	26.58	7.00	7.33	40.91	74.00	33.09	Peak
4899.340	33.85	9.16	3.40	46.42	74.00	27.58	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	6.23	35.62	54.00	18.38	Average
1065.520	25.23	4.32	5.84	35.39	54.00	18.61	Average
1191.520	25.29	4.56	4.80	34.66	54.00	19.34	Average
1325.920	25.34	4.91	5.27	35.52	54.00	18.48	Average
1465.360	25.39	5.33	8.11	38.83	54.00	15.17	Average
1720.720	26.55	6.96	3.76	37.27	54.00	16.73	Average
4899.340	33.85	9.16	3.25	46.27	54.00	7.73	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	6.03	35.42	54.00	18.58	Average
1221.760	25.30	4.63	4.70	34.62	54.00	19.38	Average
1465.360	25.39	5.33	5.88	36.60	54.00	17.40	Average
1725.760	26.58	7.00	2.61	36.18	54.00	17.82	Average
4899.340	33.85	9.16	-1.44	41.58	54.00	12.42	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test：	Apr. 27, 2007	Temperature：	22℃
EUT：	Wireless Modem with Serial Interface with Antenna Type A	Humidity：	50%
Test Mode：	Receiving Mode, Channel: 20, Frequency: 2423.808MHz		

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	11.67	41.07	74.00	32.93	Peak
1330.960	25.34	4.93	10.54	40.81	74.00	33.19	Peak
1460.320	25.39	5.31	13.23	43.93	74.00	30.07	Peak
1720.720	26.55	6.96	10.53	44.04	74.00	29.96	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	11.27	40.67	74.00	33.33	Peak
1196.560	25.29	4.58	11.00	40.87	74.00	33.13	Peak
1465.360	25.39	5.33	12.74	43.45	74.00	30.55	Peak
1720.720	26.55	6.96	9.43	42.94	74.00	31.06	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	7.24	36.63	54.00	17.37	Average
1330.960	25.34	4.93	5.41	35.68	54.00	18.32	Average
1460.320	25.39	5.31	6.79	37.49	54.00	16.51	Average
1720.720	26.55	6.96	5.11	38.62	54.00	15.38	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	7.36	36.75	54.00	17.25	Average
1196.560	25.29	4.58	6.28	36.15	54.00	17.85	Average
1465.360	25.39	5.33	7.81	38.53	54.00	15.47	Average
1720.720	26.55	6.96	3.85	37.36	54.00	16.64	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type B Humidity： 50%

Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	52.08	40.74	74.00	33.26	Peak
1065.520	25.23	4.32	52.10	40.97	74.00	33.03	Peak
1191.520	25.29	4.56	50.93	40.21	74.00	33.79	Peak
1330.960	25.34	4.93	50.76	40.56	74.00	33.44	Peak
1465.360	25.39	5.33	52.81	43.15	74.00	30.85	Peak
1725.760	26.58	7.00	50.06	43.42	74.00	30.58	Peak
4814.740	33.64	9.14	44.26	47.68	74.00	26.32	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	51.53	40.19	74.00	33.81	Peak
1196.560	25.29	4.58	52.51	41.81	74.00	32.19	Peak
1460.320	25.39	5.31	53.97	44.29	74.00	29.71	Peak
1729.120	26.58	7.04	49.14	42.53	74.00	31.47	Peak
4814.740	33.64	9.14	47.60	51.02	74.00	22.98	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	6.14	35.53	54.00	18.47	Average
1065.520	25.23	4.32	6.58	36.13	54.00	17.87	Average
1191.520	25.29	4.56	5.89	35.74	54.00	18.26	Average
1330.960	25.34	4.93	5.44	35.71	54.00	18.29	Average
1465.360	25.39	5.33	6.56	37.28	54.00	16.72	Average
1725.760	26.58	7.00	5.91	39.48	54.00	14.52	Average
4814.740	33.64	9.14	-0.60	42.18	54.00	11.82	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	6.24	35.63	54.00	18.37	Average
1196.560	25.29	4.58	6.36	36.23	54.00	17.77	Average
1460.320	25.39	5.31	8.04	38.74	54.00	15.26	Average
1729.120	26.58	7.04	4.01	37.62	54.00	16.38	Average
4814.740	33.64	9.14	3.00	45.78	54.00	8.22	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test：	Apr. 27, 2007	Temperature：	22℃
EUT：	Wireless Modem with Serial Interface with Antenna Type B	Humidity：	50%
Test Mode：	Transmitting Mode, Channel: 20, Frequency: 2423.808MHz		

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	10.67	40.07	74.00	33.93	Peak
1330.960	25.34	4.93	10.47	40.74	74.00	33.26	Peak
1460.320	25.39	5.31	13.66	44.36	74.00	29.64	Peak
1729.120	26.58	7.04	8.27	41.88	74.00	32.12	Peak
1989.520	27.75	5.91	9.93	43.60	74.00	30.40	Peak
4848.580	33.71	9.15	8.67	51.54	74.00	22.46	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	10.48	39.88	74.00	34.12	Peak
1199.920	25.29	4.59	10.81	40.68	74.00	33.32	Peak
1460.320	25.39	5.31	10.20	40.90	74.00	33.10	Peak
1725.760	26.58	7.00	7.22	40.80	74.00	33.20	Peak
4848.580	33.71	9.15	6.20	49.07	74.00	24.93	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.39	34.78	54.00	19.22	Average
1330.960	25.34	4.93	5.08	35.35	54.00	18.65	Average
1460.320	25.39	5.31	7.71	38.41	54.00	15.59	Average
1729.120	26.58	7.04	2.22	35.83	54.00	18.17	Average
1989.520	27.75	5.91	3.50	37.17	54.00	16.83	Average
4848.580	33.71	9.15	2.86	45.73	54.00	8.27	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.87	35.26	54.00	18.74	Average
1199.920	25.29	4.59	5.91	35.79	54.00	18.21	Average
1460.320	25.39	5.31	4.93	35.63	54.00	18.37	Average
1725.760	26.58	7.00	2.72	36.29	54.00	17.71	Average
4848.580	33.71	9.15	1.17	44.04	54.00	9.96	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test：	Apr. 27, 2007	Temperature：	22℃
EUT：	Wireless Modem with Serial Interface with Antenna Type B	Humidity：	50%
Test Mode：	Transmitting Mode, Channel: 44, Frequency: 2448.384MHz		

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	10.50	39.90	74.00	34.10	Peak
1196.560	25.29	4.58	9.48	39.35	74.00	34.65	Peak
1465.360	25.39	5.33	14.04	44.75	74.00	29.25	Peak
1720.720	26.55	6.96	8.14	41.65	74.00	32.35	Peak
1989.520	27.75	5.91	8.19	41.86	74.00	32.14	Peak
4899.340	33.85	9.16	6.95	49.97	74.00	24.03	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	11.34	40.74	74.00	33.26	Peak
1191.520	25.29	4.56	11.16	41.01	74.00	32.99	Peak
1465.360	25.39	5.33	11.85	42.56	74.00	31.44	Peak
1729.120	26.58	7.04	8.31	41.92	74.00	32.08	Peak
4899.340	33.85	9.16	7.15	50.17	74.00	23.83	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.23	34.62	54.00	19.38	Average
1196.560	25.29	4.58	4.31	34.18	54.00	19.82	Average
1465.360	25.39	5.33	7.87	38.59	54.00	15.41	Average
1720.720	26.55	6.96	2.91	36.42	54.00	17.58	Average
1989.520	27.75	5.91	2.78	36.45	54.00	17.55	Average
4899.340	33.85	9.16	0.67	43.69	54.00	10.31	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.73	35.12	54.00	18.88	Average
1191.520	25.29	4.56	5.83	35.68	54.00	18.32	Average
1465.360	25.39	5.33	5.80	36.52	54.00	17.48	Average
1729.120	26.58	7.04	2.97	36.58	54.00	17.42	Average
4899.340	33.85	9.16	1.55	44.57	54.00	9.43	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

Date of Test：	Apr. 27, 2007	Temperature：	22℃
EUT：	Wireless Modem with Serial Interface with Antenna Type B	Humidity：	50%
Test Mode：	Receiving Mode, Channel: 20, Frequency: 2423.808MHz		

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	11.48	40.88	74.00	33.12	Peak
1460.320	25.39	5.31	14.96	45.66	74.00	28.34	Peak
1729.120	26.58	7.04	9.30	42.91	74.00	31.09	Peak

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	12.94	42.34	74.00	31.66	Peak
1065.520	25.23	4.32	14.16	43.71	74.00	30.29	Peak
1196.560	25.29	4.58	13.61	43.48	74.00	30.52	Peak
1465.360	25.39	5.33	11.43	42.14	74.00	31.86	Peak
1729.120	26.58	7.04	9.91	43.52	74.00	30.48	Peak

Horizontal

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	5.65	35.04	54.00	18.96	Average
1460.320	25.39	5.31	9.33	40.03	54.00	13.97	Average
1729.120	26.58	7.04	2.90	36.51	54.00	17.49	Average

Vertical

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1006.720	25.20	4.19	7.20	36.59	54.00	17.41	Average
1065.520	25.23	4.32	6.02	35.57	54.00	18.43	Average
1196.560	25.29	4.58	7.26	37.13	54.00	16.87	Average
1465.360	25.39	5.33	7.31	38.03	54.00	15.97	Average
1729.120	26.58	7.04	3.91	37.52	54.00	16.48	Average

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Measurement was up to 25GHz, but the emission levels were too low against the official limit and not reported.

2.6.3. Restricted Bands Measurement Results

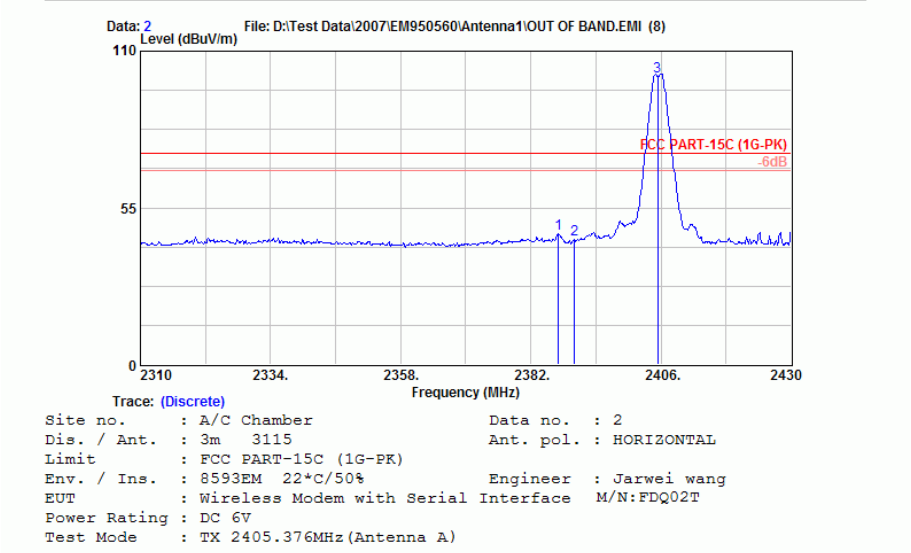
Date of Test： Apr. 27, 2007 Temperature： 22℃

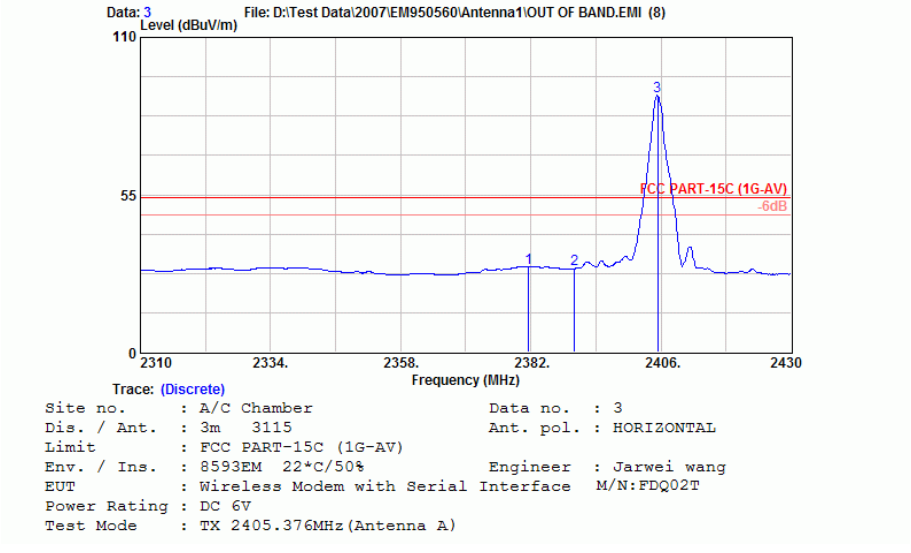
EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.040	28.59	6.33	11.00	45.92	74.00	28.08
Average *	2381.640	28.58	6.35	-5.31	29.62	54.00	24.38

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.





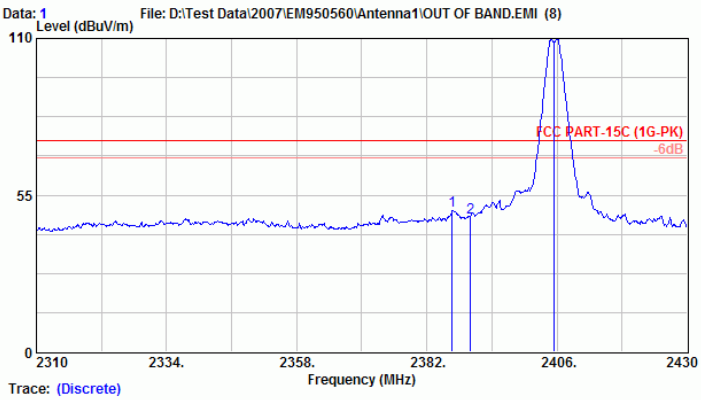
Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

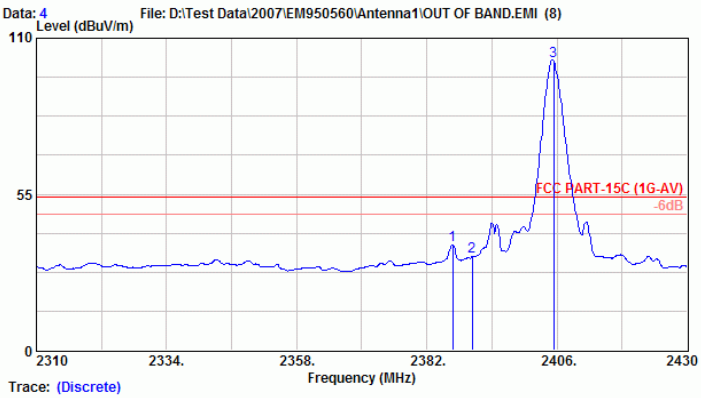
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2386.680	28.59	6.33	14.79	49.71	74.00	24.29
Average *	2386.800	28.59	6.33	2.02	36.94	54.00	17.06

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 1
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-PK)		
Env. / Ins.	: 8593EM 22*C/50%	Engineer	: Jarwei wang
EUT	: Wireless Modem with Serial Interface	M/N:FDQ02T	
Power Rating	: DC 6V		
Test Mode	: TX 2405.376MHz(Antenna A)		



Trace: (Discrete)

Site no.	: A/C Chamber	Data no.	: 4
Dis. / Ant.	: 3m 3115	Ant. pol.	: VERTICAL
Limit	: FCC PART-15C (1G-AV)		
Env. / Ins.	: 8593EM 22*C/50%	Engineer	: Jarwei wang
EUT	: Wireless Modem with Serial Interface	M/N:FDQ02T	
Power Rating	: DC 6V		
Test Mode	: TX 2405.376MHz(Antenna A)		

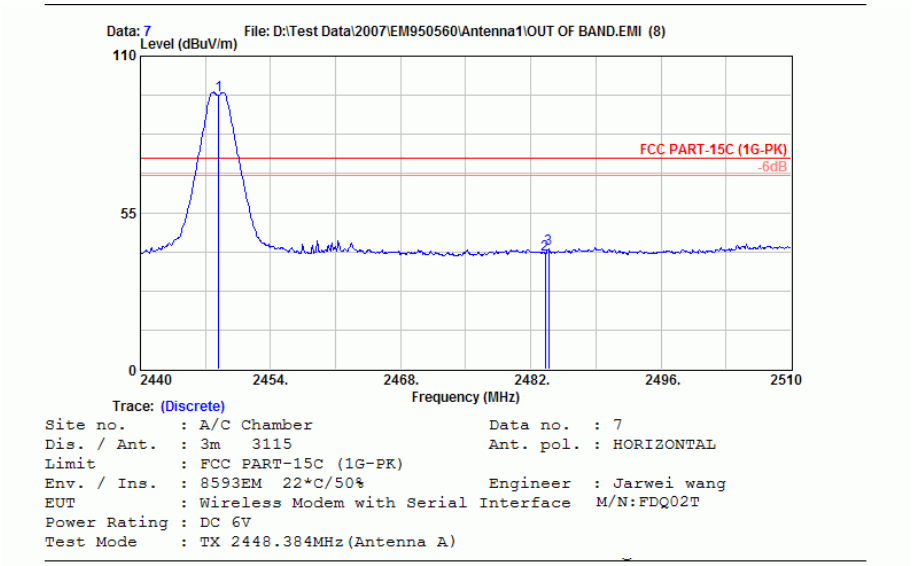
Date of Test： Apr. 27, 2007 Temperature： 22℃

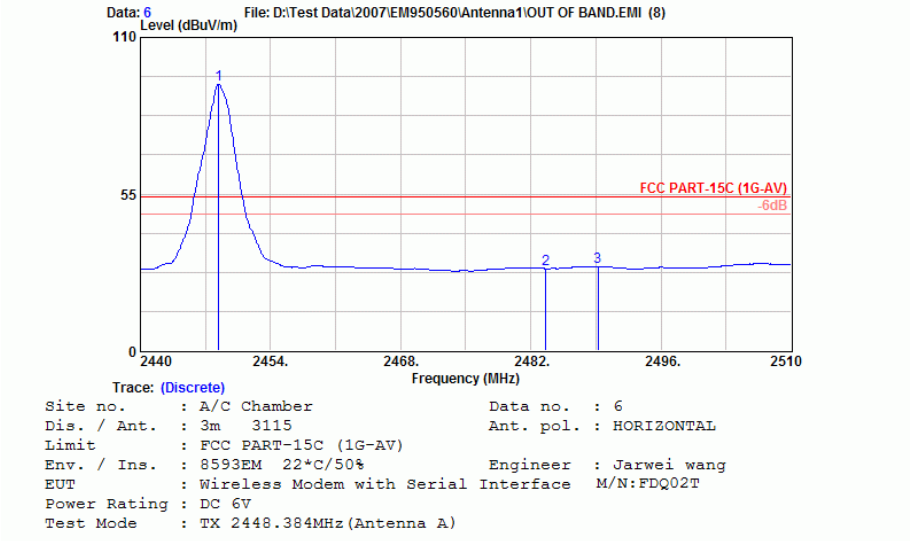
EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

Test Mode： Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.890	28.77	6.45	7.01	42.23	74.00	31.77
Average *	2489.210	28.79	6.45	-5.77	29.47	54.00	24.53

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.





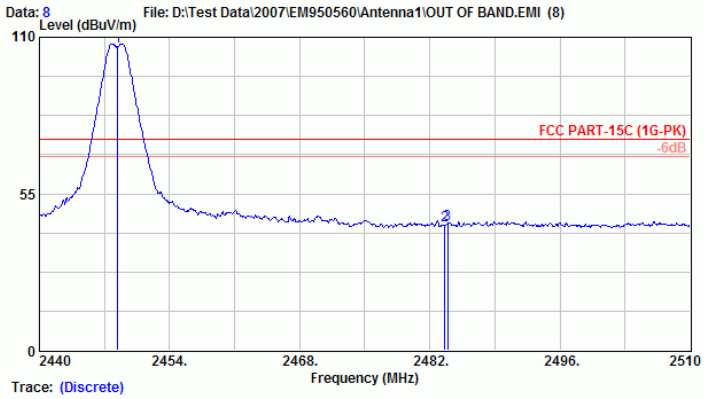
Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type A Humidity： 50%

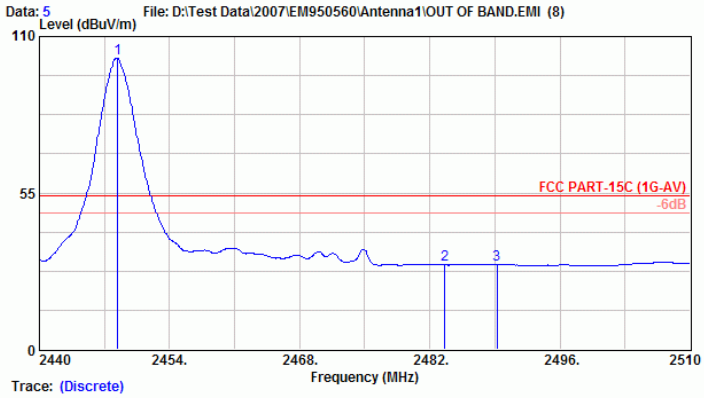
Test Mode： Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.890	28.77	6.45	9.15	44.37	74.00	29.63
Average *	2489.210	28.79	6.45	-5.27	29.97	54.00	24.03

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8593EM 22°C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2448.384MHz(Antenna A)



Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8593EM 22°C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX 2448.384MHz(Antenna A)

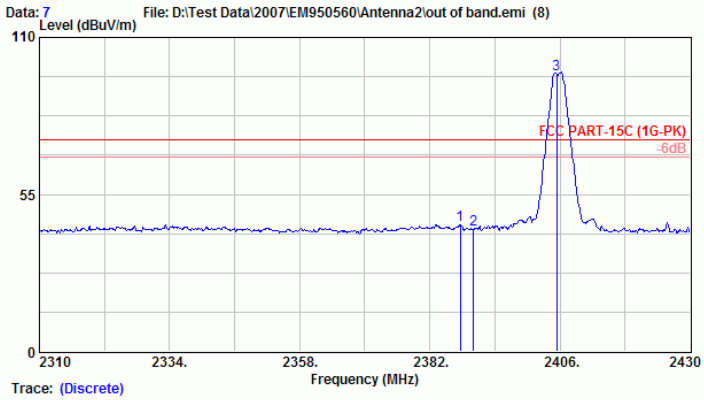
Date of Test： Apr. 27, 2007 Temperature： 22℃

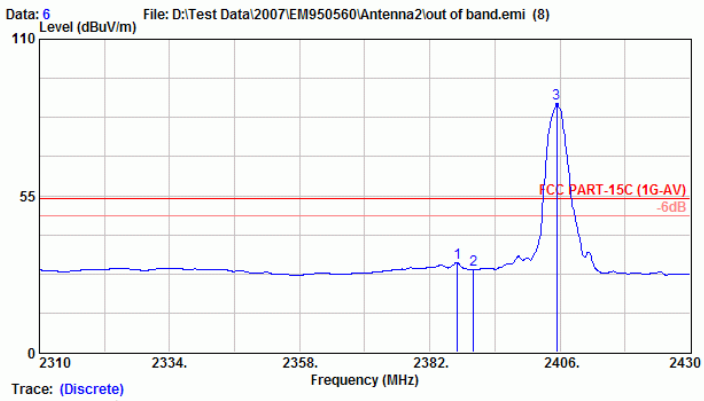
EUT： Wireless Modem with Serial Interface with Antenna Type B Humidity： 50%

Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.640	28.59	6.34	9.48	44.41	74.00	29.59
Average *	2387.040	28.59	6.33	-3.33	31.59	54.00	22.41

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.





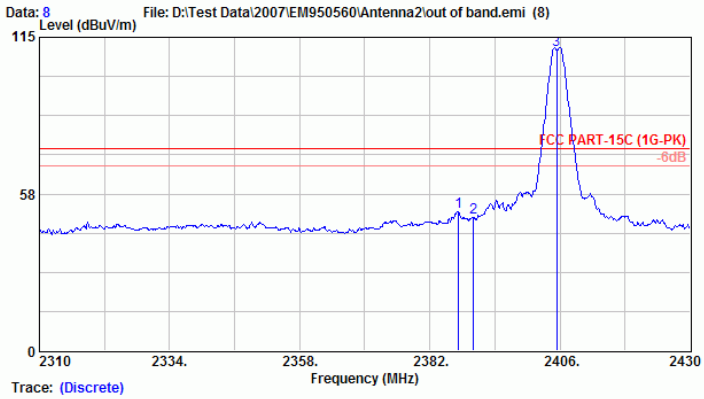
Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type B Humidity： 50%

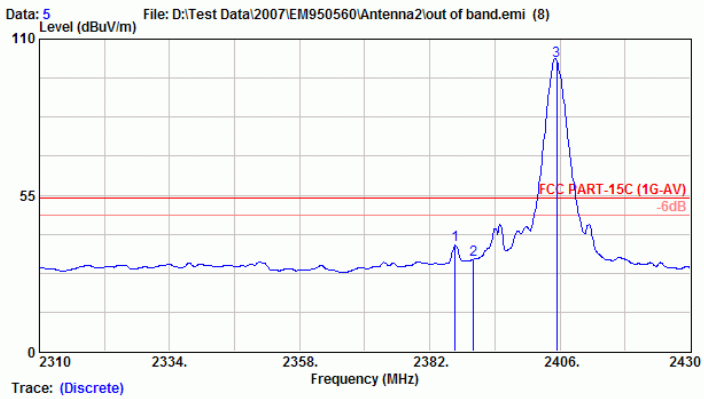
Test Mode： Transmitting Mode, Channel: 2, Frequency: 2405.376MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.280	28.59	6.33	15.97	50.89	74.00	23.11
Average *	2386.680	28.59	6.33	2.38	37.30	54.00	16.70

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. Low frequency section (spurious in the restricted band 2310-2390MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2405.376MHz (Antenna B)



Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2405.376MHz (Antenna B)

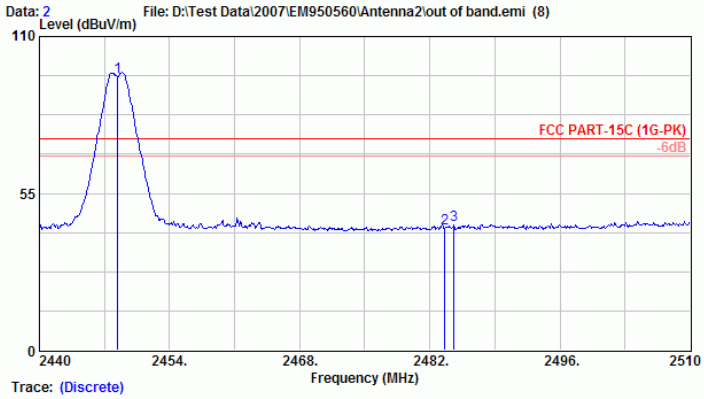
Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type B Humidity： 50%

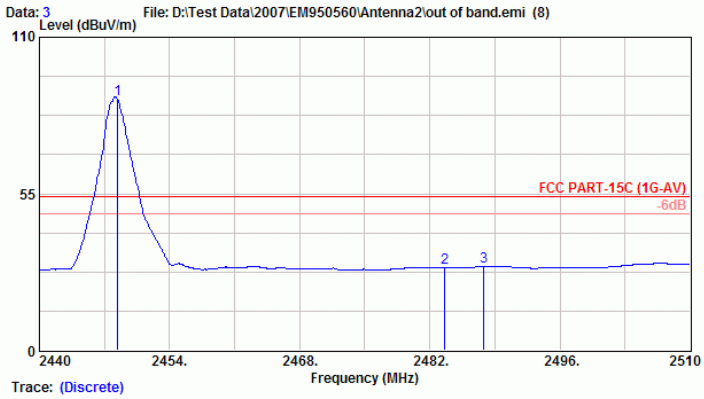
Test Mode： Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2484.590	28.77	6.45	8.52	43.74	74.00	30.26
Average *	2487.810	28.77	6.45	-5.88	29.34	54.00	24.66

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384MHz(Antenna B)



Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : 8593EM 22*C/50% Engineer : Jarwei wang
EUT : Wireless Modem with Serial Interface M/N:FDQ02T
Power Rating : DC 6V
Test Mode : TX2448.384MHz(Antenna B)

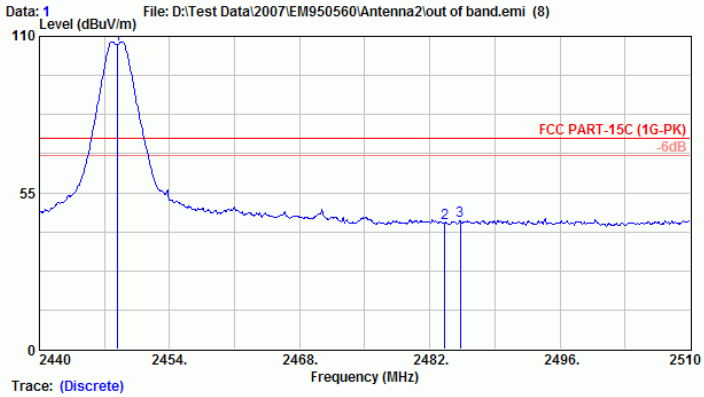
Date of Test： Apr. 27, 2007 Temperature： 22℃

EUT： Wireless Modem with Serial Interface with Antenna Type B Humidity： 50%

Test Mode： Transmitting Mode, Channel: 44, Frequency: 2448.384MHz

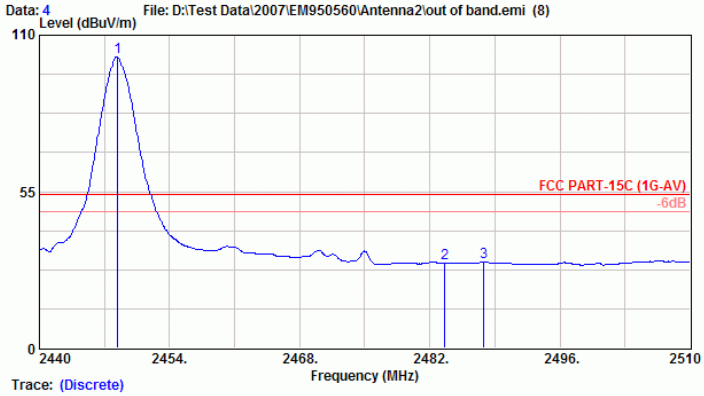
	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2485.290	28.77	6.45	10.01	45.23	74.00	28.77
Average *	2487.810	28.77	6.45	-4.97	30.25	54.00	23.75

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 1
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : 8593EM  22*C/50%            Engineer   : Jarwei wang
EUT           : Wireless Modem with Serial Interface   M/N:FDQ02T
Power Rating  : DC 6V
Test Mode     : TX2448.384MHz (Antenna B)
```



Trace: (Discrete)

```
Site no.      : A/C Chamber                 Data no.   : 4
Dis. / Ant.   : 3m   3115                   Ant. pol.  : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : 8593EM  22*C/50%            Engineer   : Jarwei wang
EUT           : Wireless Modem with Serial Interface   M/N:FDQ02T
Power Rating  : DC 6V
Test Mode     : TX2448.384MHz (Antenna B)
```

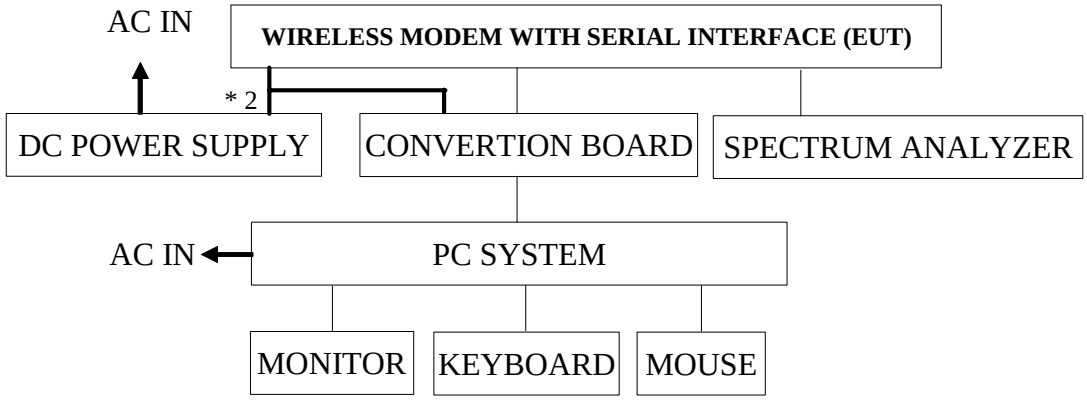
3. BAND EDGES MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

3.2. Block Diagram of Test Setup



3.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

3.4. Operating Condition of EUT

The test program "Futaba Term" was used to enable the EUT to transmit and receive data at different channel frequency individually.

3.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

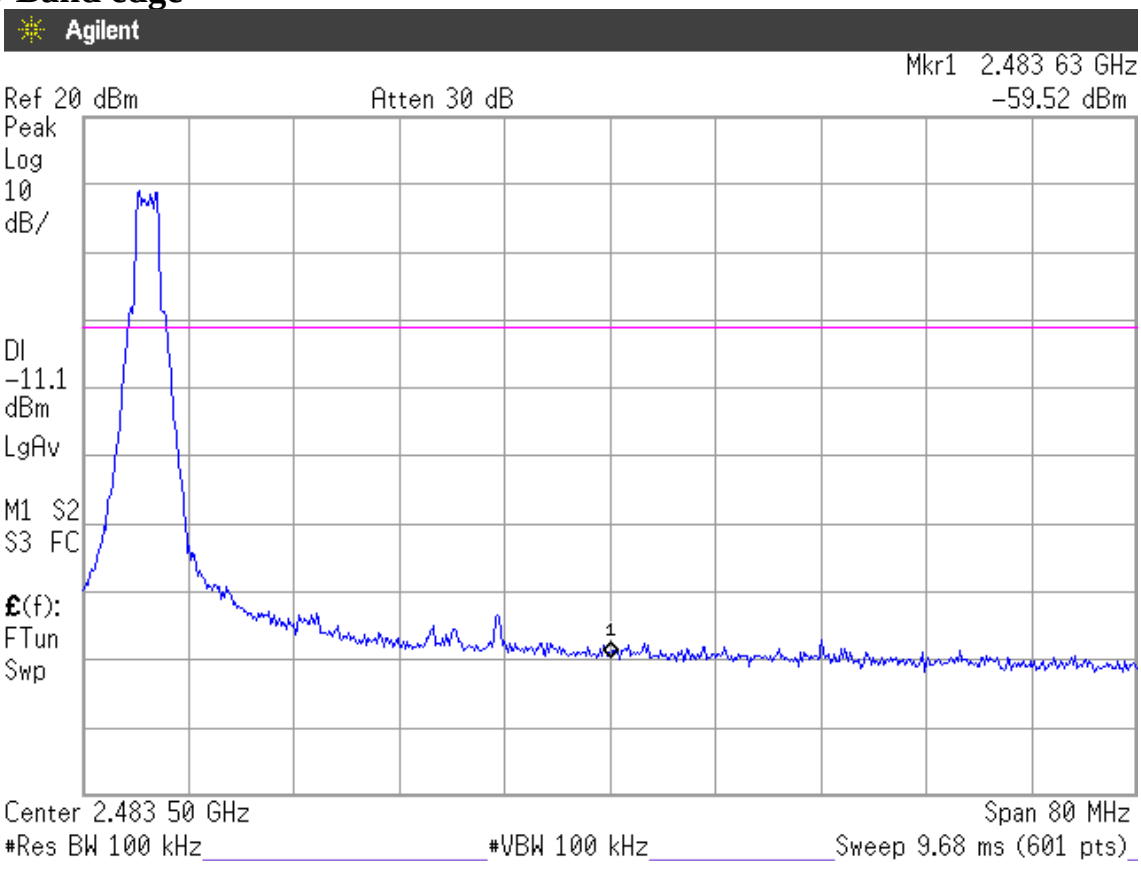
3.6. Test Results

PASSED. All the test results are attached in next pages.

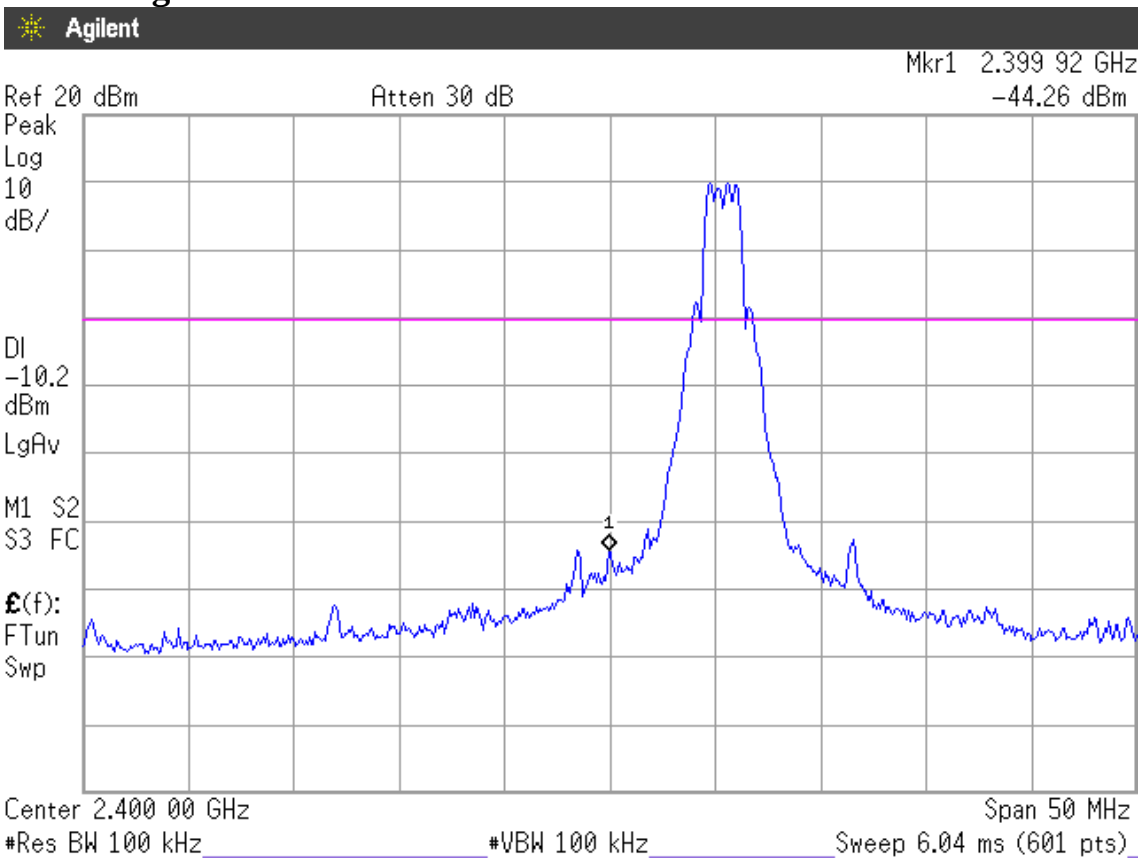
(Test Date : Apr. 27, 2007 Temperature : 23℃ Humidity : 49 %)

1. Below Band edge: The highest emission level is - 59.52dBm on 2.48363GHz。
2. Upper Band edge : The highest emission level is - 44.26dBm on 2.39992GHz。

Below Band edge



Upper Band edge



4. DEVIATION TO TEST SPECIFICATIONS

【NONE】