FCC 47 CFR PART 22H and 24E

Product Type	:	Wireless Inner Structure
Applicant	:	SCT Wireless Inc
Address		1894 US Hwy 50 East Building 4 Suite 281 Carson City NV 89701
Trade Name	:	SCT Wireless
Model Number	:	Sphere
Test Specification	:	FCC 47 CFR PART 22H: Oct, 2009 FCC 47 CFR PART 24E: Oct, 2009 CANADA RSS-131 Issue 2: Jul. 2003 ANSI/TIA-603-C 2004
Issue Date	:	Sep. 24, 2010

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Sep. 24, 2010	Initial Issue	

Verification of Compliance

Issued Date: 2010/09/24

Product Type	:	Wireless Inner Structure
Applicant	:	SCT Wireless Inc
Address	:	1894 US Hwy 50 East Building 4 Suite 281 Carson City NV 89701
Trade Name	:	SCT Wireless
Model Number	:	Sphere
FCC ID	:	XZZ-WB-198
IC ID	:	9222A-SPTR
EUT Rated Voltage	:	DC 12V, 1.0A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 22H: Oct, 2009 FCC 47 CFR PART 24E: Oct, 2009 CANADA RSS-131 Issue 2: Jul. 2003 ANSI/TIA-603-C 2004
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City Taoyuan County 334, Taiwan R.O.C. Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.
The test results of this report relate only to the tested sample identified in this report.

Approved By	:		Reviewed By	:	
(Manager)		(Miller Lee)	(Testing Engineer)		(Gary Wu)

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1 General Information

1.1. EUT Description

Applicant		SCT Wireless Inc			
Applicant Address		1894 US Hwy 50 East Building 4 Suite 281 Carson City NV 89701			
Manufacturer		Airgoon LTD.			
Manufacturer Address		2207 Concord Pike, Suite 700, Wilmington, DELAWARE			
Product Type		Wireless Inner Structure			
Trade Name		SCT Wireless			
Model Number		Sphere			
FCC ID		XZZ-WB-198			
IC ID		9222A-SPTR			
Mode	WCDMA	Band	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
		Band II	1852.4 ~ 1907.6	1932.4 ~ 1987.6	QPSK
		Band V	826.4 ~ 846.6	871.4 ~ 891.6	QPSK
Channel Control		Auto			
Type of Antenna		Uplink	Ant. #1	Model No.: E3A-W15, Exterior 360º Antenna	
		Downlink	Ant. #2	Model No.: ICA-W8, Exterior 360º Antenna	
Antenna Gain (dBi)		Uplink	Ant. #1	WCDMA Band II / WCDMA Band V : 15dBi	
		Downlink	Ant. #2	WCDMA Band II / WCDMA Band V : 8dBi	
Max. RF Output power		Uplink	WCDMA Band II: 30.10 dBm / 1.023 W WCDMA Band V: 33.03 dBm / 2.009 W		
		Downlink	WCDMA Band II: 14.52 dBm / 0.028 W WCDMA Band V: 17.04 dBm / 0.051 W		
Emission Designator		Uplink	WCDMA Band II: 7M91F9W WCDMA Band V: 4M27F9W		
		Downlink	WCDMA Band II: 4M35F9W WCDMA Band V: 5M03F9W		
Component					
Power Adapter		JANIZARY HOLDINGS INC, HK-C112-A12 Input:100-240Vac, 50/60Hz, 0.35A Output: 12Vdc, 1.0A Cable out: Non-Shielded, 1.86 m			

1.2. Mode of Operation

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

Test Mode
Mode 1: WCDMA Band II Uplink
Mode 2: WCDMA Band II Downlink
Mode 3: WCDMA Band V Uplink
Mode 4: WCDMA Band V Downlink

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Tested System Details

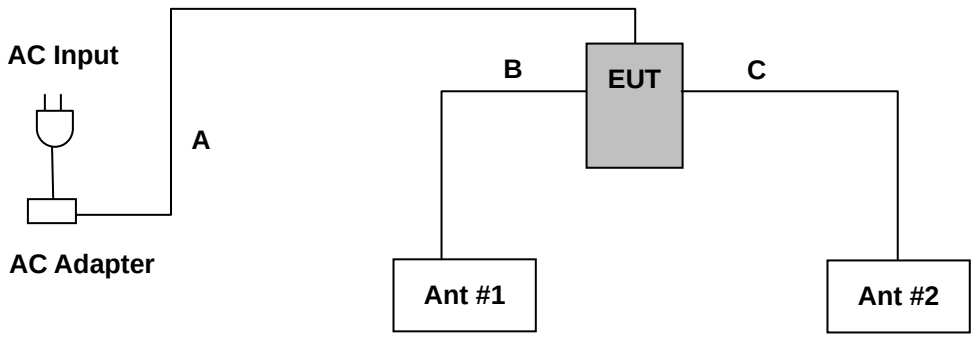
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	109369	N/A

1.3. EUT Exercise Software

1.	Setup the EUT and Base Station (CMU200) as shown on 1.4.
2.	Turn on the power of all equipment.

1.4. Configuration of Test System Details



Signal Cable Type		Signal Cable Description
A	Power Cable	Shielded, 1.86 m
B	Uplink Ant. Cable	Non-Shielded, 1.5 m
C	Downlink Ant. Cable	Non-Shielded, 1.75 m

1.5. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	25
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950

1.6. Summary of Test Result

Description	FCC Rule	IC Rule	Result
Conducted Output Power	§2.1046	RSS-131 Cl 4.3	Complies
Emissions Limitations	§2.1049	RSS-131 Cl 4.2	Complies
Occupied Bandwidth	§2.1049	RSS-131 Cl 4.2	Complies
Conducted Spurious Emissions at Antenna Terminals	§2.1051	RSS-131 Cl 4.4	Complies
Field Strength of Spurious Radiation	§2.1053	RSS-131 Cl 4.4	Complies
Intermodulation	-----	RSS-131 Cl 4.3 RSS-131 Cl 4.4	Complies
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	-----	Complies

2 RF Output Power Test

2.1. Limit

N/A

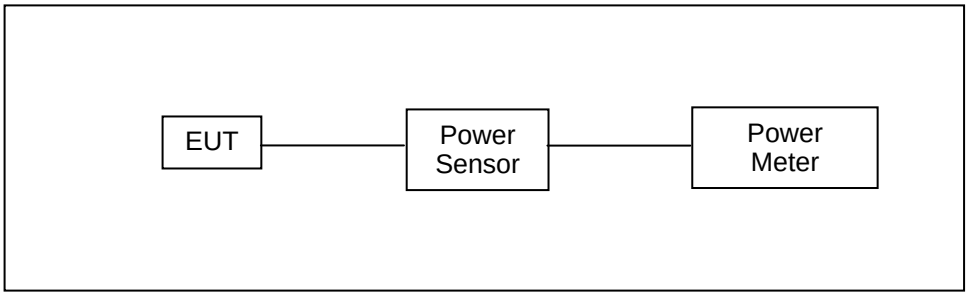
2.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	07/19/2010	(1)
Wideband Power Meter	Agilent	N1921A	MY45241957	07/19/2010	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through power divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

2.6. Test Result

Model Number	Sphere					
Test Item	RF Output Power					
Date of Test	09/23/2010				Test Site	TE02
Bands	Data Mode	Channel	Average Power		Peak Power	
			(dBm)	(W)	(dBm)	(W)
WCDMA Band II	Uplink	Low	22.48	0.177	28.76	0.752
		Middle	24.10	0.257	**30.10**	**1.023**
		High	22.25	0.168	28.73	0.746
	Downlink	Low	7.47	0.006	13.13	0.021
		Middle	6.13	0.004	**14.52**	**0.028**
		High	3.90	0.002	11.26	0.013
WCDMA Band V	Uplink	Low	21.10	0.129	32.93	1.963
		Middle	21.51	0.142	**33.03**	**2.009**
		High	21.42	0.139	32.04	1.600
	Downlink	Low	9.35	0.009	16.65	0.046
		Middle	9.47	0.009	**17.04**	**0.051**
		High	9.64	0.009	16.53	0.045

Note: The peak power testing result was used peak detector.

3 Occupied Bandwidth / Band Edge Test

3.1. Limit

The Occupied Bandwidth Limit:

N/A.

The Band Edge Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

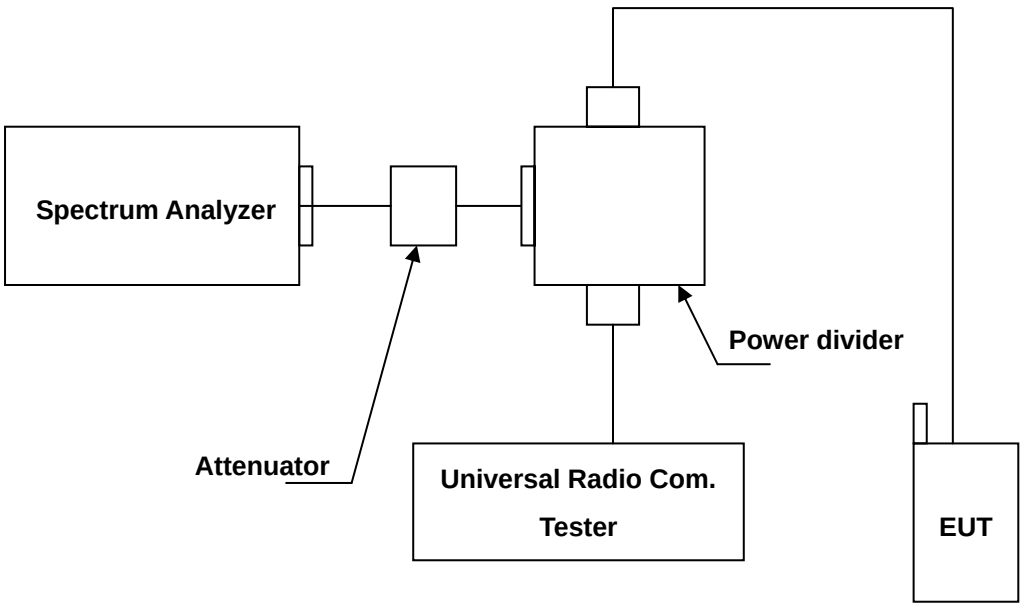
3.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009	(2)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

3.3. Setup



3.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.
3. The Modulation Characteristics setting: RB=30 kHz; VB=300 kHz.
4. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
5. The band edge setting: RB=100 kHz; VB=100 kHz for WCDMA Band V and WCDMA Band II.

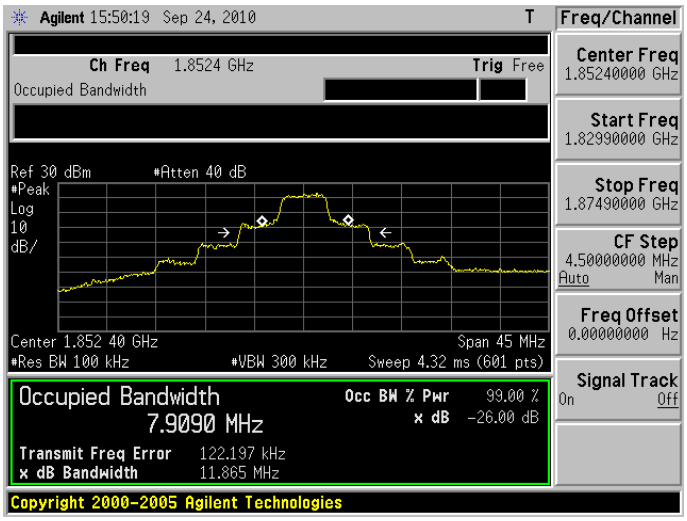
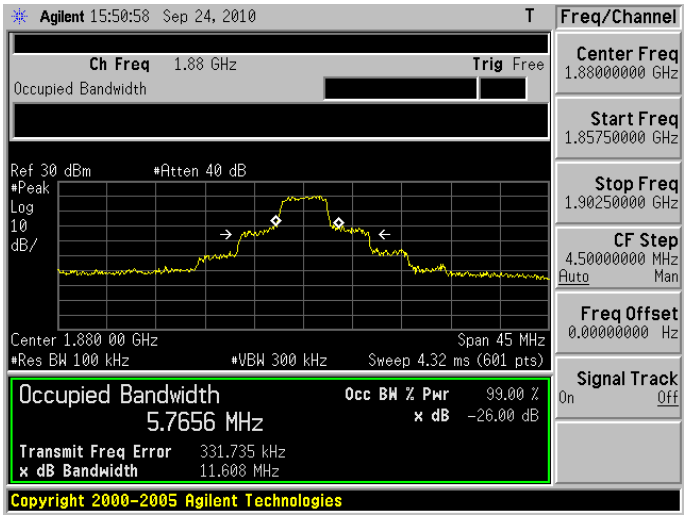
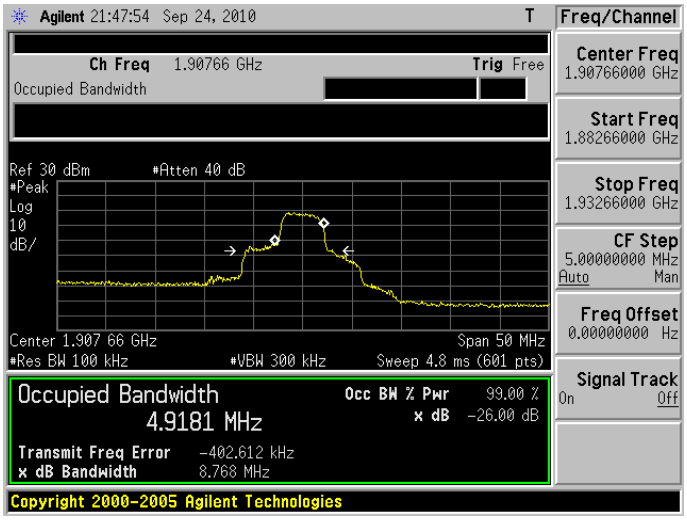
3.5. Uncertainty

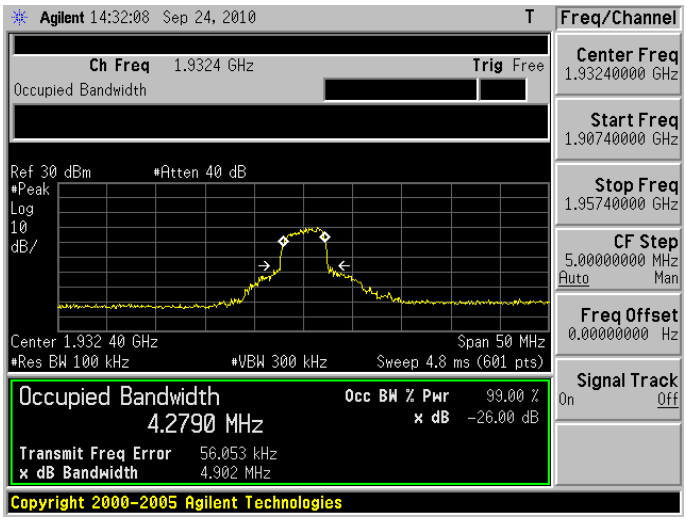
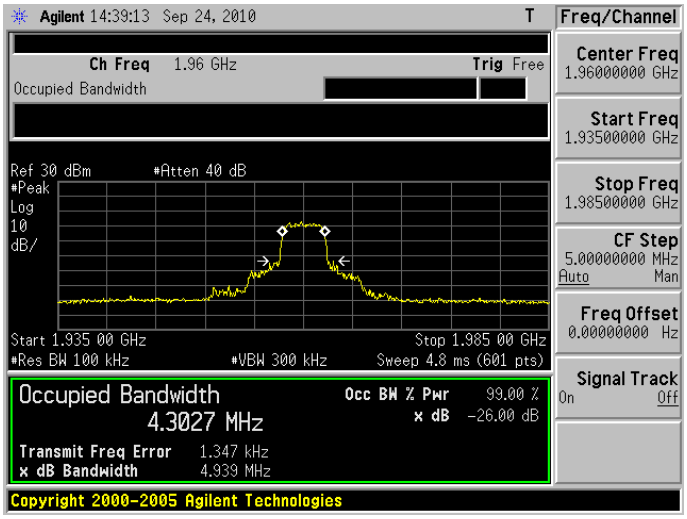
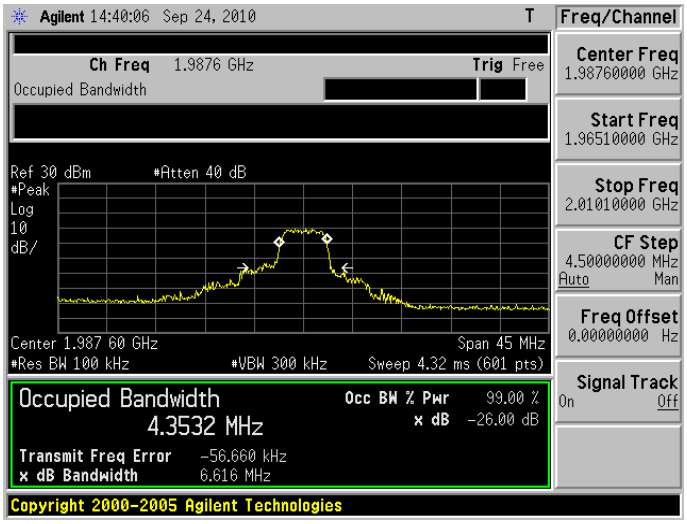
The measurement uncertainty is defined as ± 10Hz

3.6. Test Result

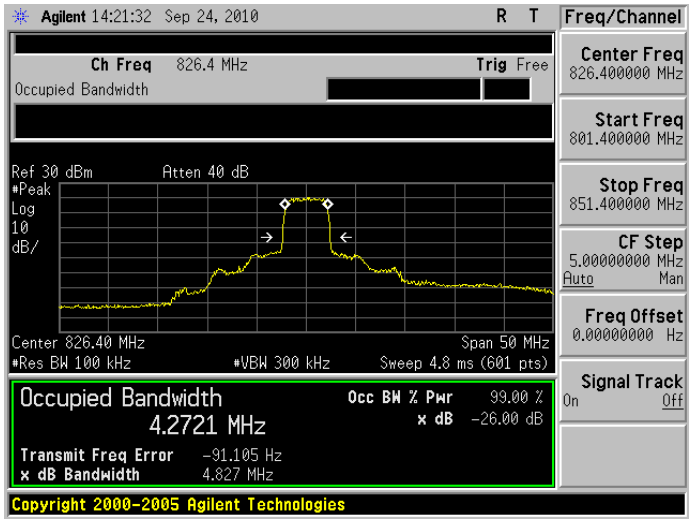
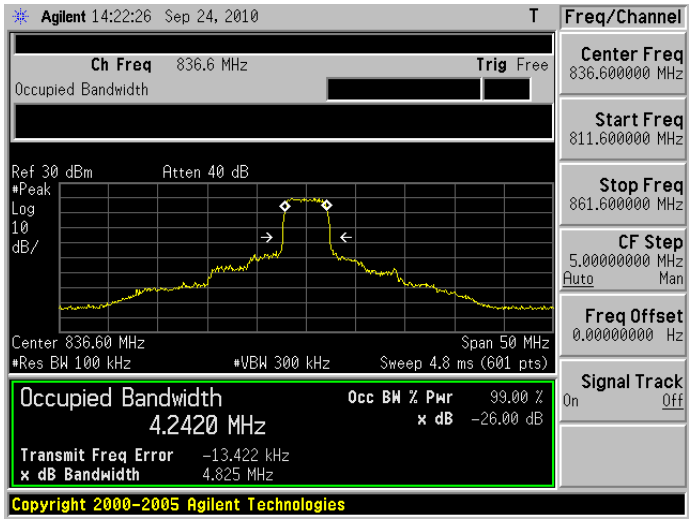
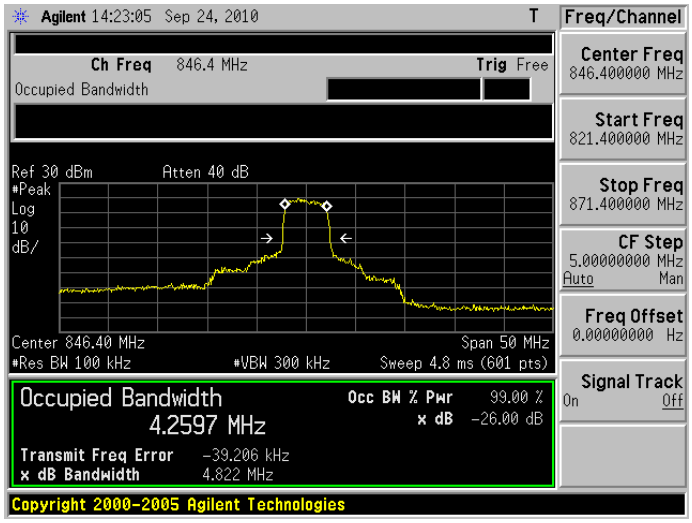
99% Occupied Bandwidth

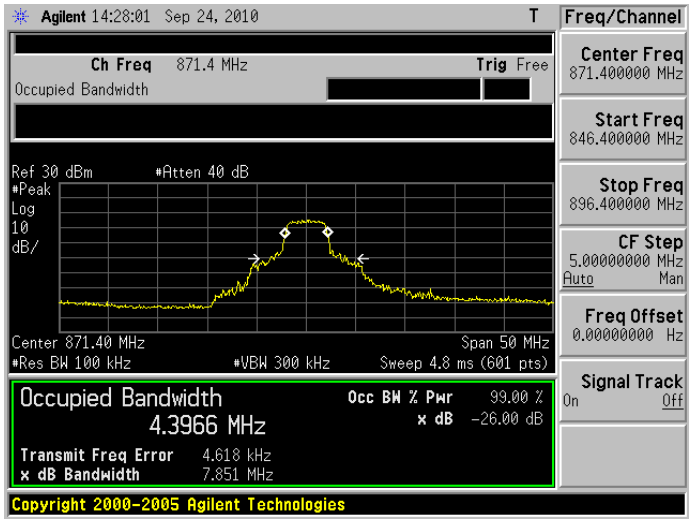
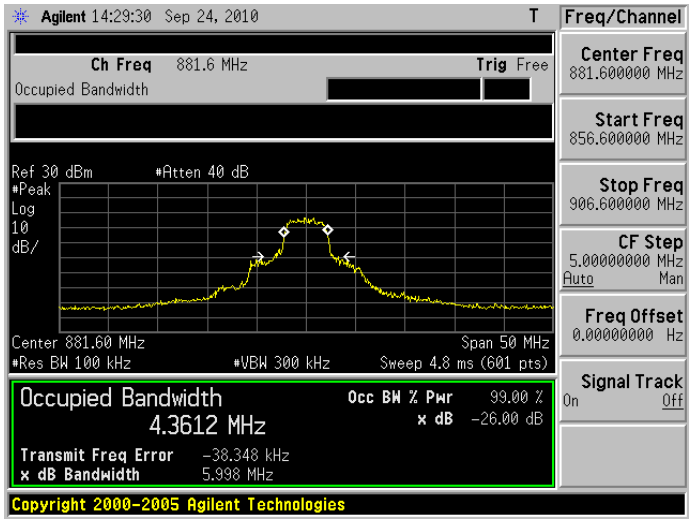
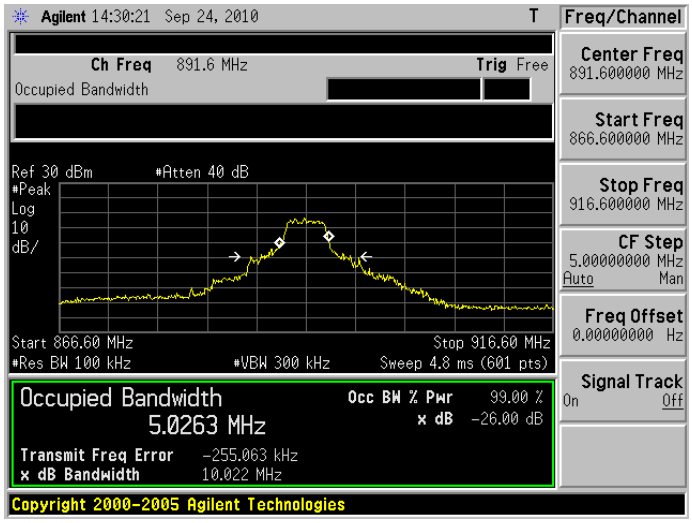
Model Number	Sphere				
Test Item	Occupied Bandwidth				
Date of Test	09/24/2010			Test Site	TE02
Band	Data Mode	Channel.	99% Bandwidth (MHz)	Note	
WCDMA Band II	Uplink	Low	7.9090	RBW:100KHz , VBW:300KHz	
		Middle	5.7656	RBW:100KHz , VBW:300KHz	
		High	4.9181	RBW:100KHz , VBW:300KHz	
	Downlink	Low	4.2790	RBW:100KHz , VBW:300KHz	
		Middle	4.3027	RBW:100KHz , VBW:300KHz	
		High	4.3532	RBW:100KHz , VBW:300KHz	

Mode 1: WCDMA Band II Uplink	
CH Low	
CH Middle	
CH High	

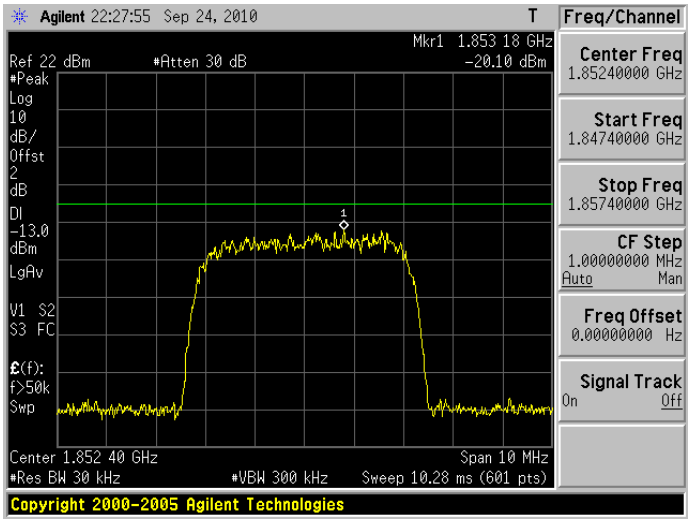
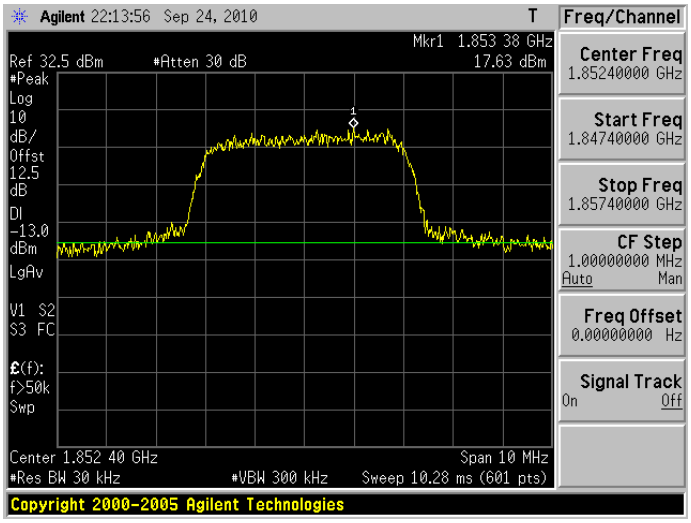
Mode 2: WCDMA Band II Downlink	
CH Low	
CH Middle	
CH High	

Model Number	Sphere				
Test Item	Occupied Bandwidth				
Date of Test	09/24/2010			Test Site	TE02
Band	Data Mode	Channel.	99% Bandwidth (MHz)	Note	
WCDMA Band V	Uplink	Low	4.2721	RBW:100KHz , VBW:300KHz	
		Middle	4.2420	RBW:100KHz , VBW:300KHz	
		High	4.2597	RBW:100KHz , VBW:300KHz	
	Downlink	Low	4.3966	RBW:100KHz , VBW:300KHz	
		Middle	4.3612	RBW:100KHz , VBW:300KHz	
		High	5.0263	RBW:100KHz , VBW:300KHz	

Mode 3: WCDMA Band V Uplink	
CH Low	
CH Middle	
CH High	

Mode 4: WCDMA Band V Downlink	
CH Low	
CH Middle	
CH High	

Modulation Characteristics

Mode 1: WCDMA Band II Uplink	
CH Low Input	
CH Low Output	

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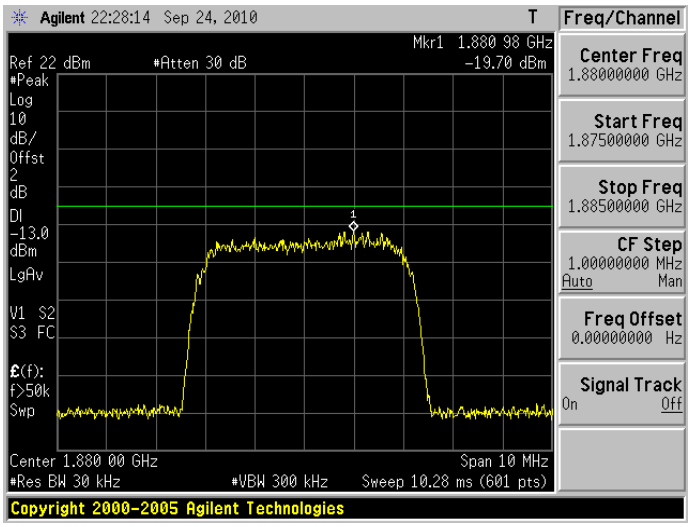
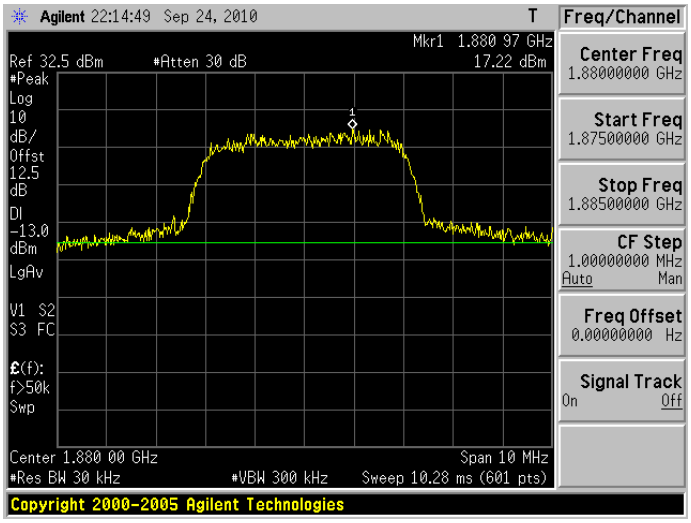
CH Middle Input	
CH Middle Output	

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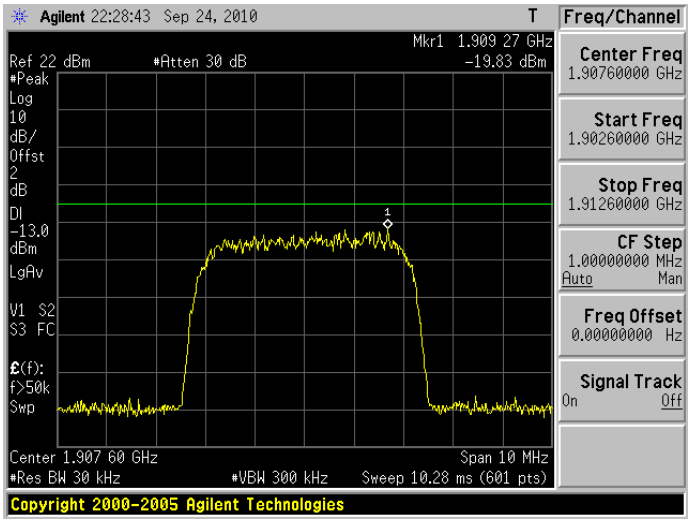
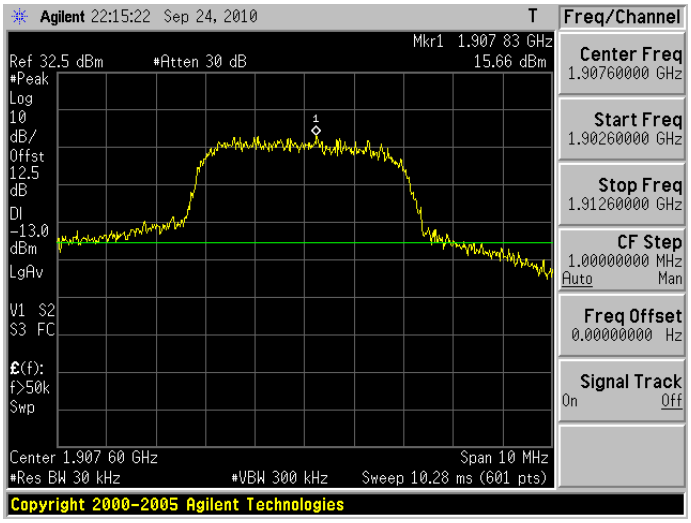
CH High Input	
CH High Output	

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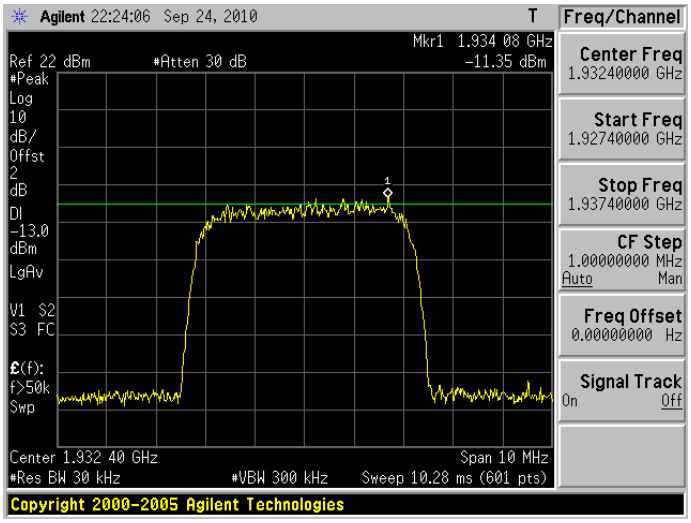
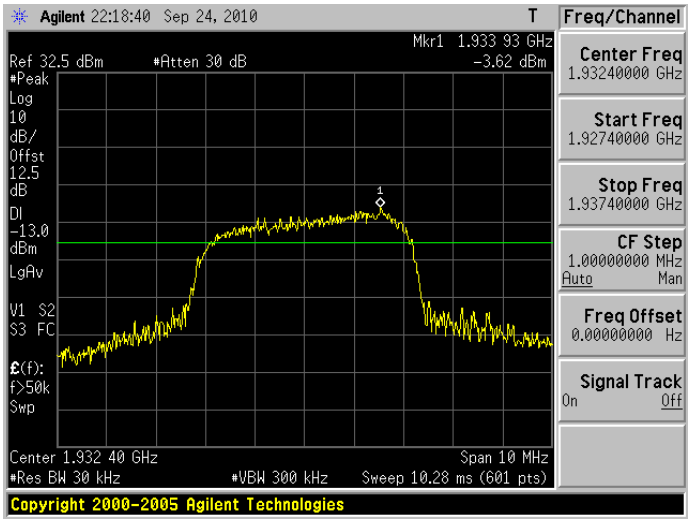
CH Low Input	
CH Low Output	

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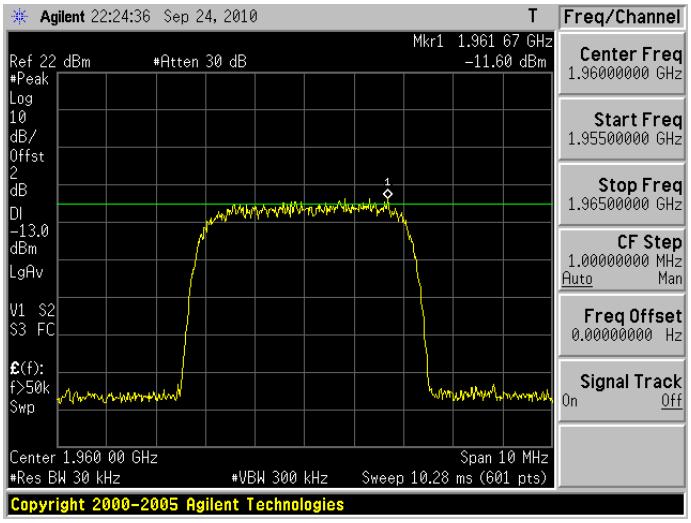
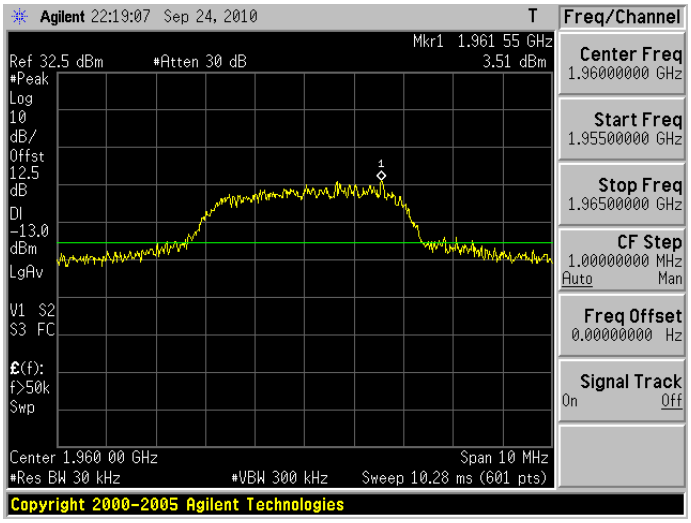
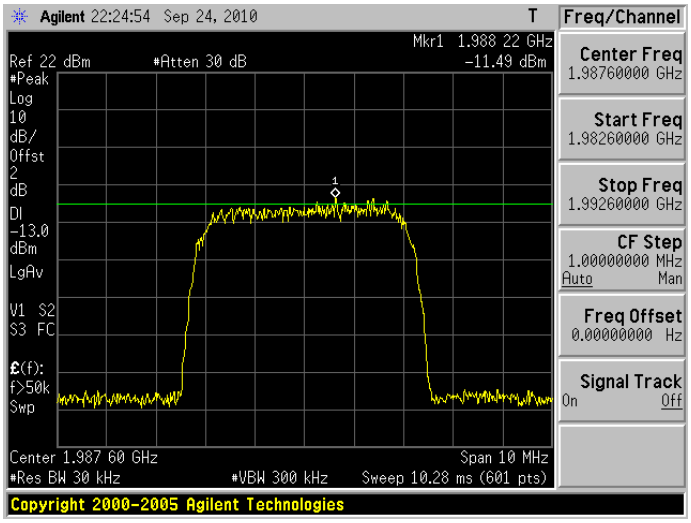
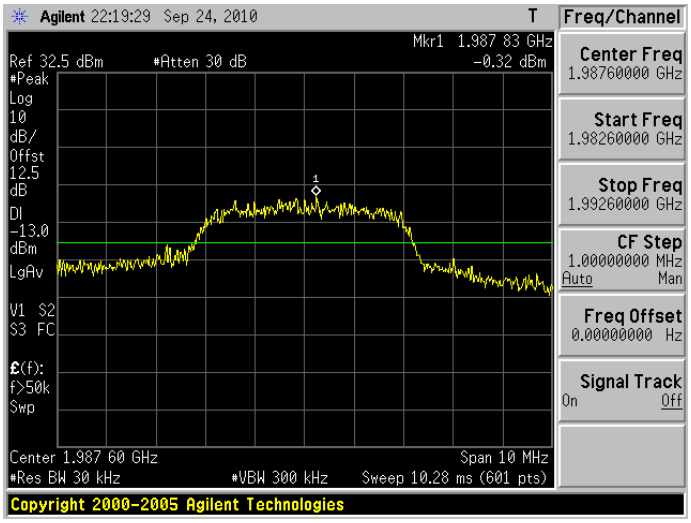
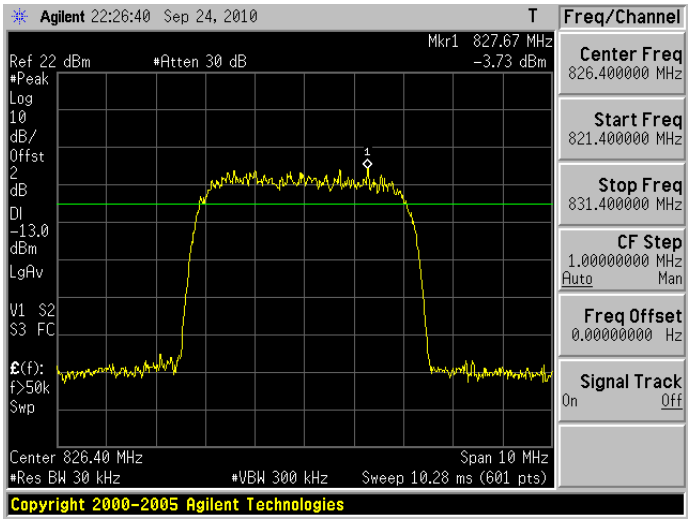
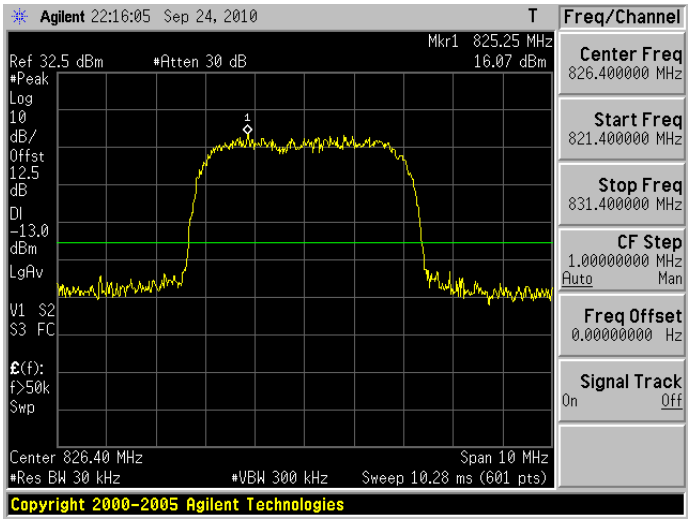
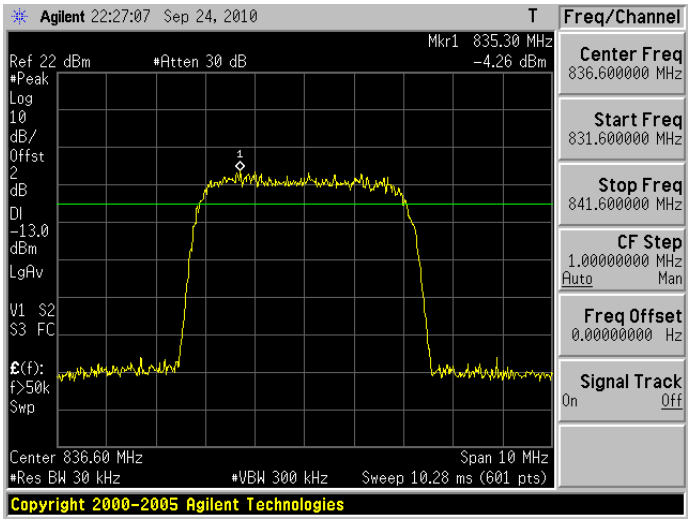
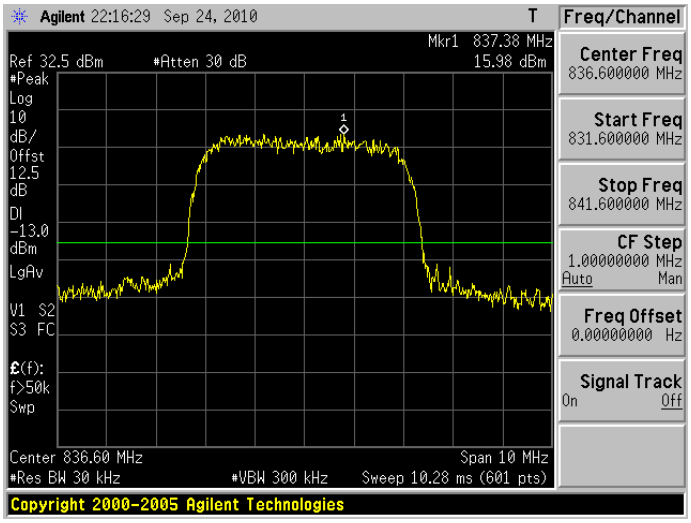
CH Middle Input	
CH Middle Output	

Mode 2: WCDMA Band II Downlink	
CH High Input	
CH High Output	

Mode 3: WCDMA Band V Uplink	
CH Low Input	
CH Low Output	

Mode 3: WCDMA Band V Uplink	
CH Middle Input	
CH Middle Output	

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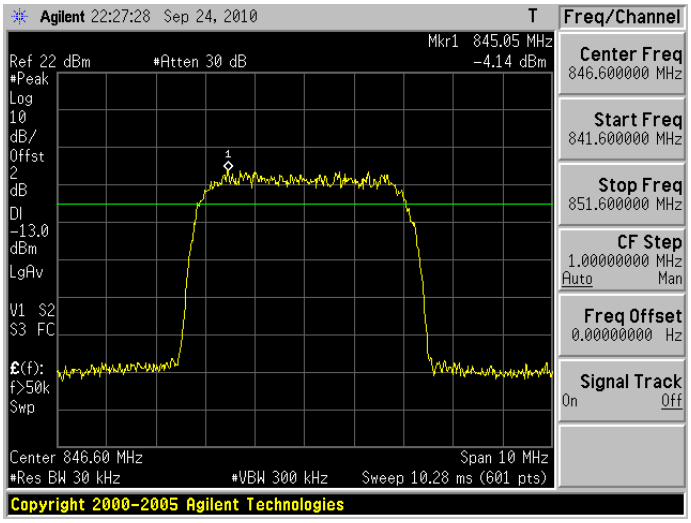
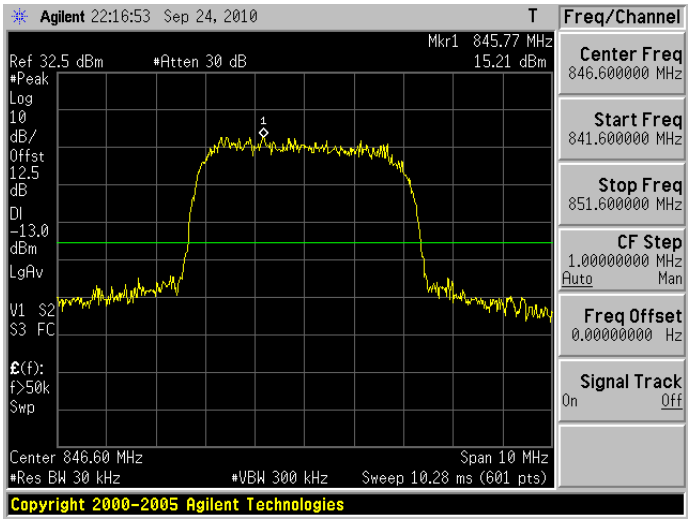
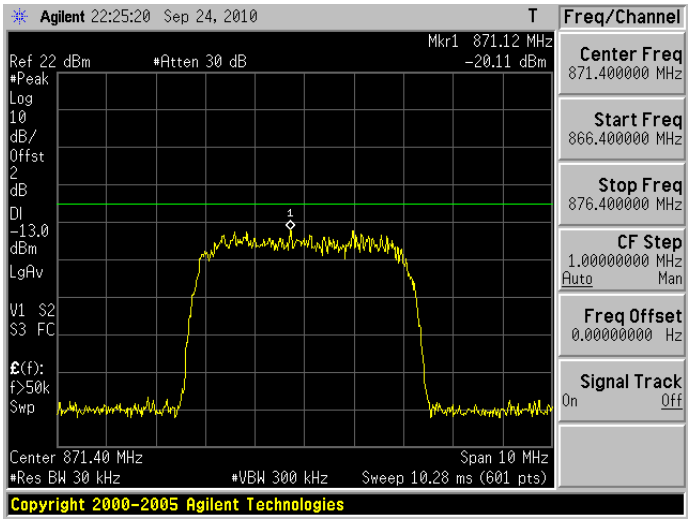
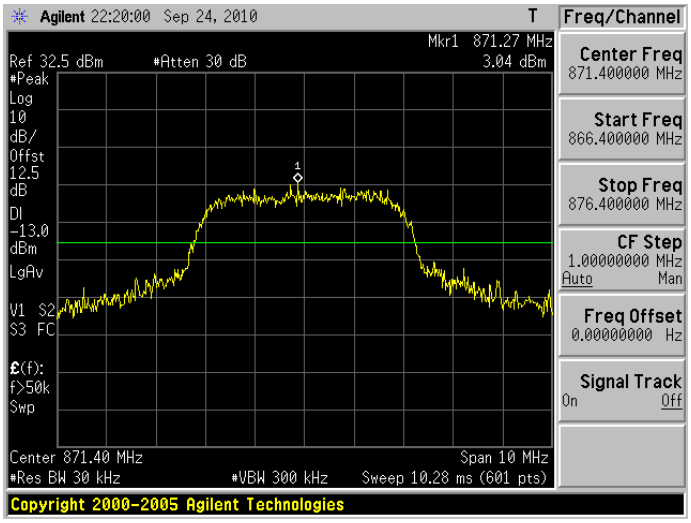
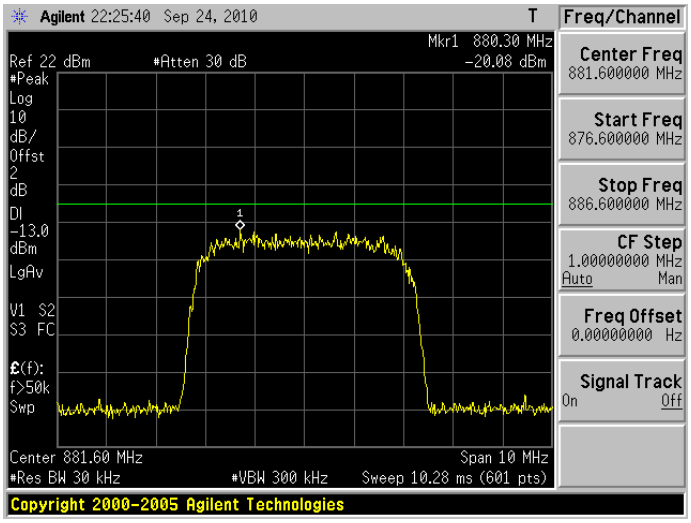
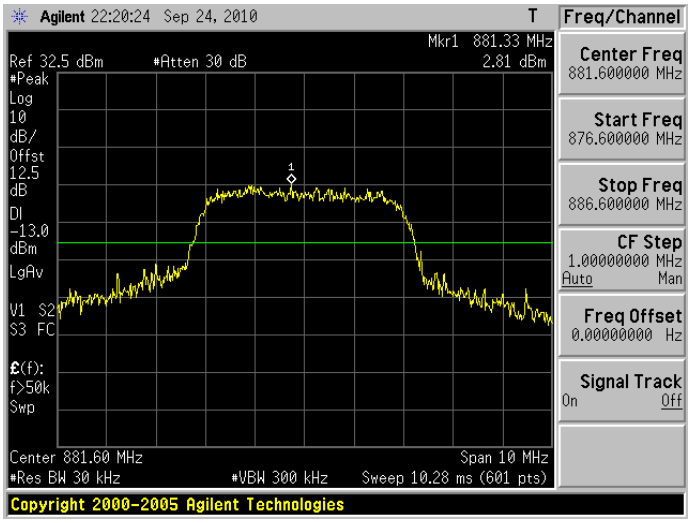
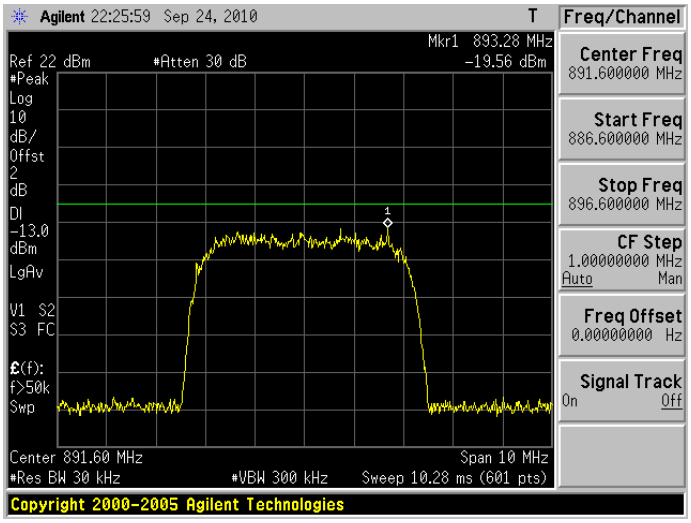
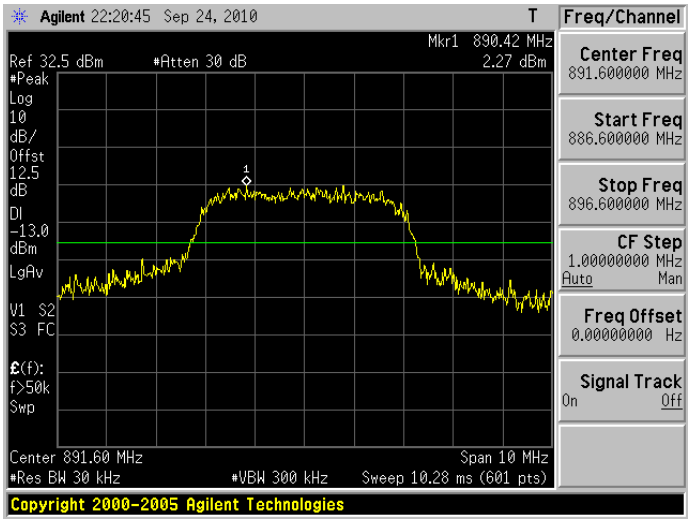
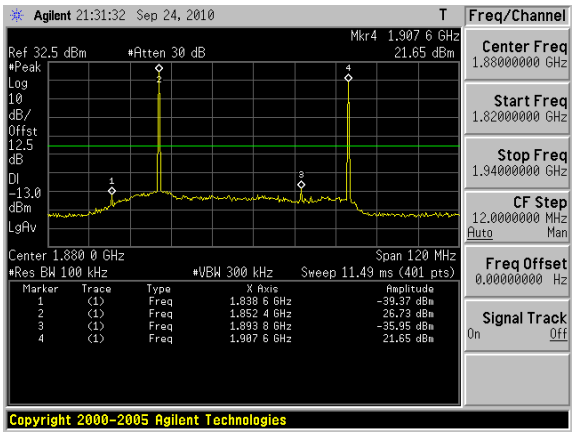
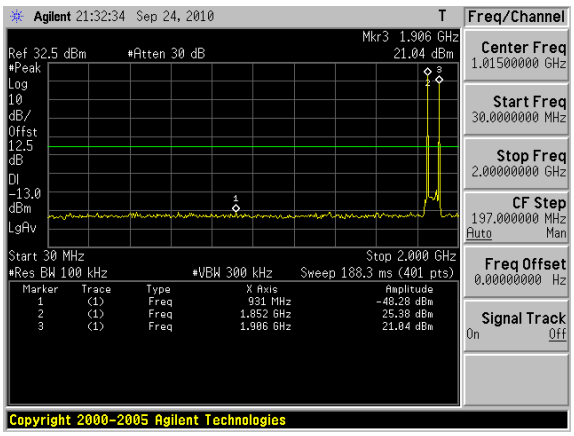
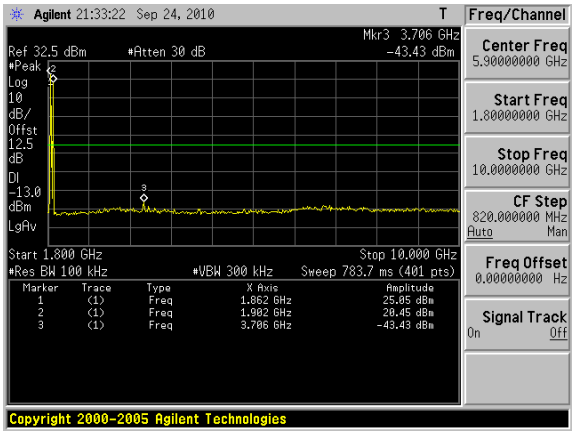
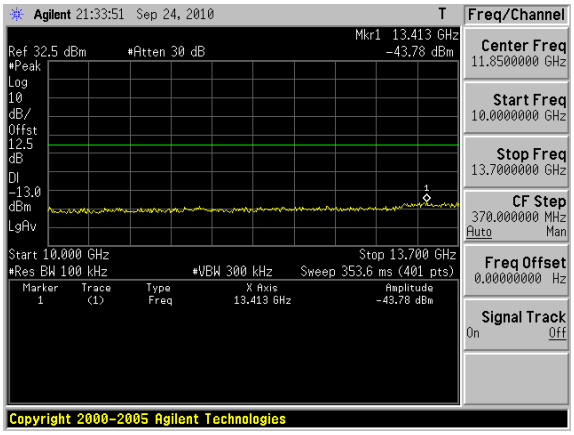
CH High Input	
CH High Output	

Mode 4: WCDMA Band V Downlink	
CH Low Input	
CH Low Output	

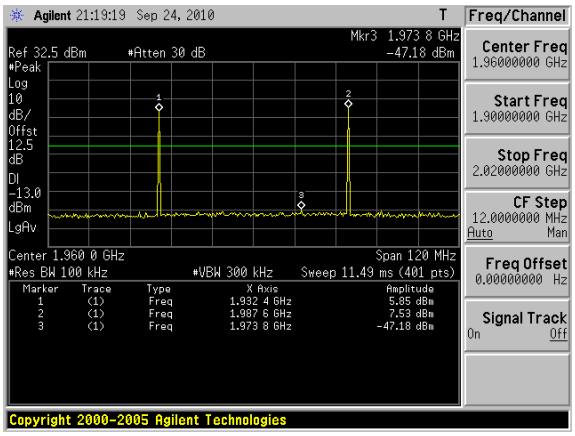
Mode 4: WCDMA Band V Downlink	
CH Middle Input	
CH Middle Output	

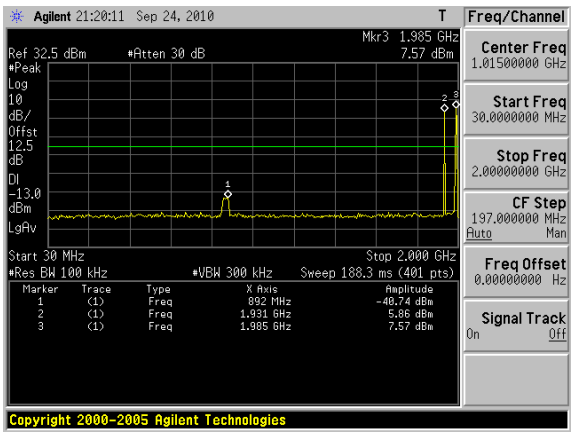
Mode 4: WCDMA Band V Downlink	
CH High Input	
CH High Output	

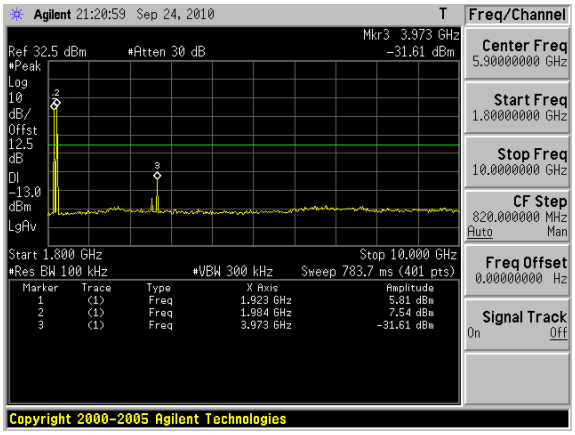
Inter-Modulation

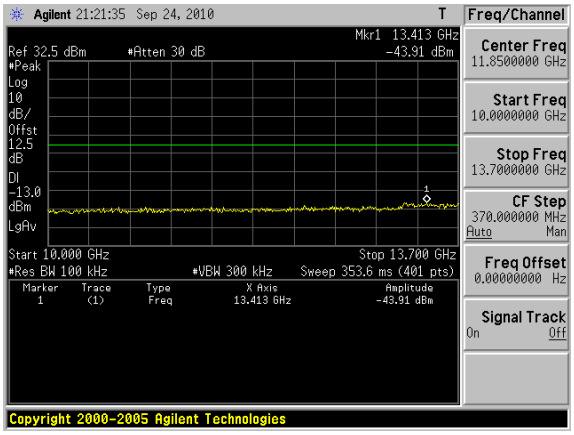
Mode 1: WCDMA Band II Uplink	
	
	

Mode 2: WCDMA Band II Downlink

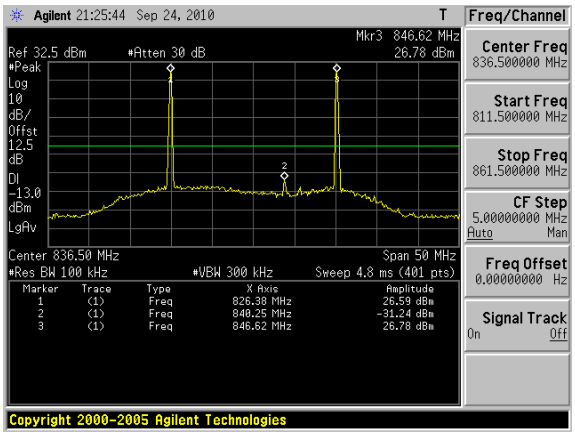


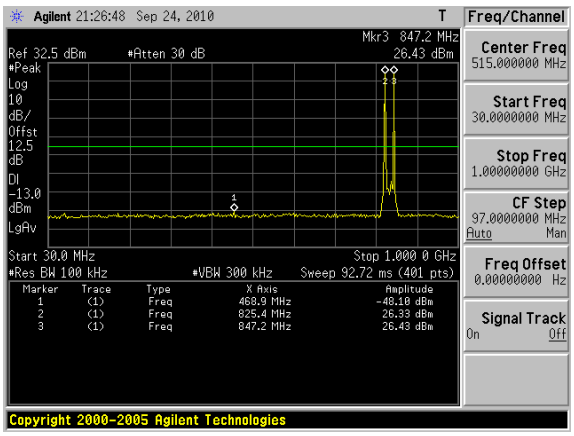


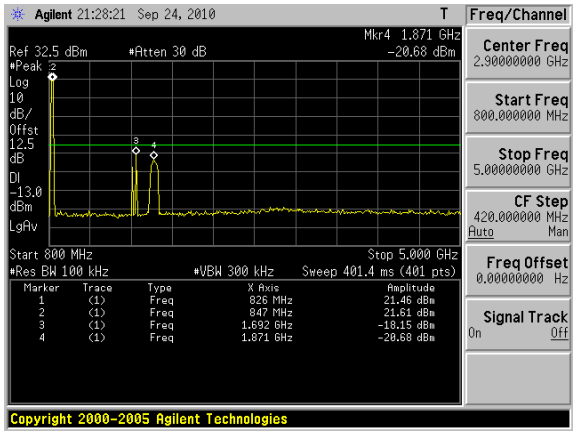


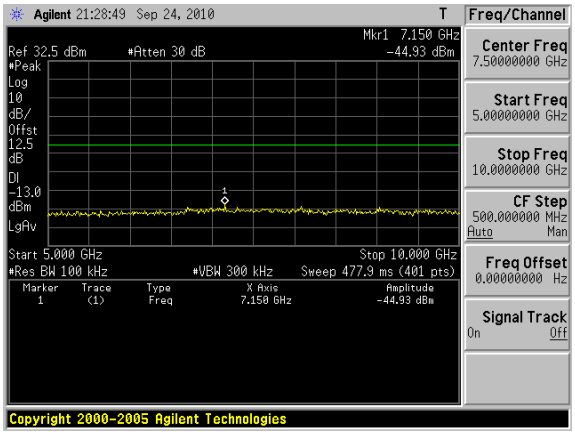


Mode 3: WCDMA Band V Uplink

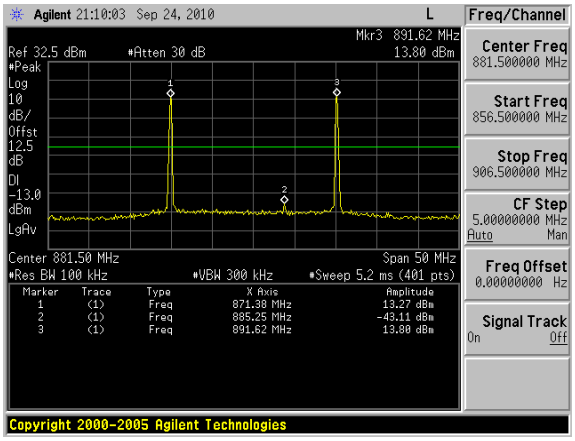


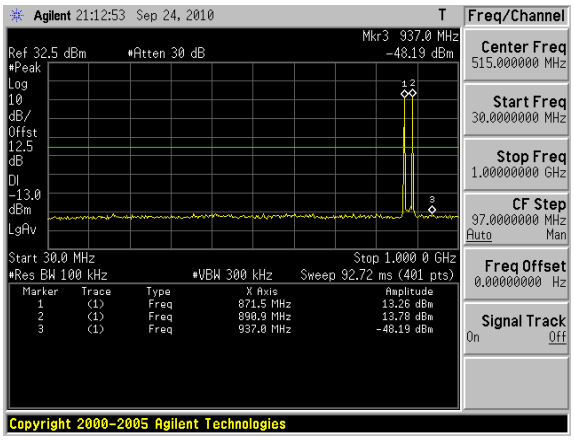


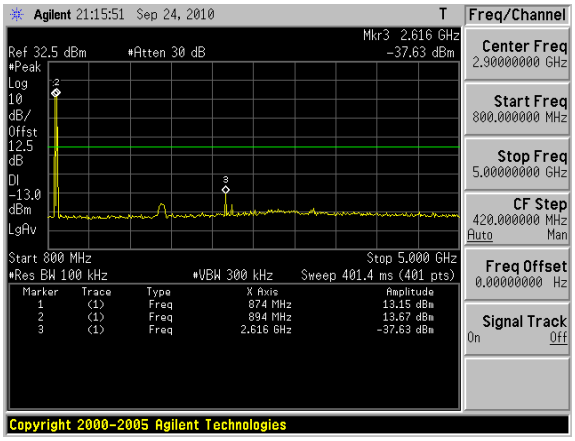


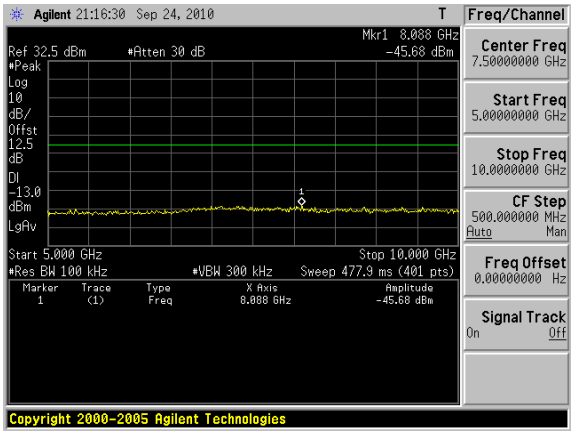


Mode 4: WCDMA Band V Downlink









Band Edge

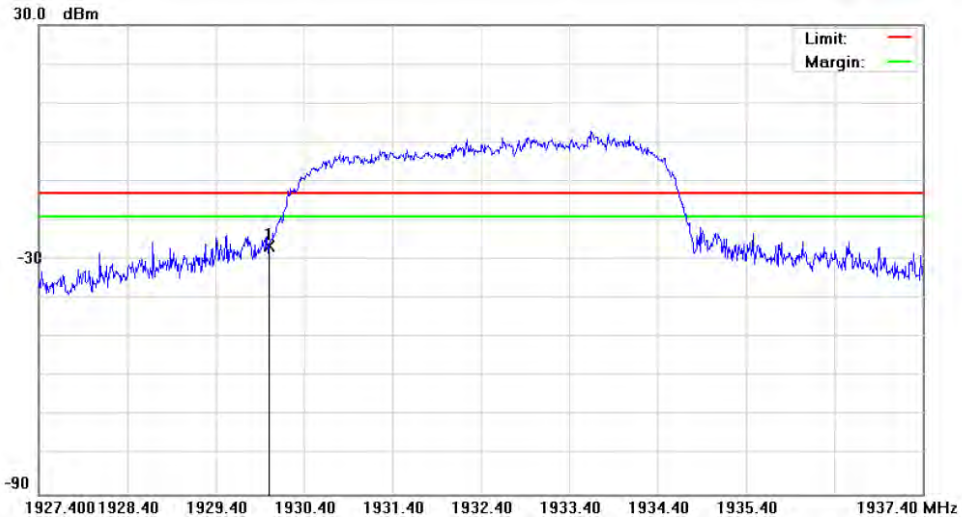
Model Number	Sphere				
Test Item	Band Edge				
Test Mode	Mode 1				
Date of Test	09/24/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9262	1850.000	-15.60	-13	Pass
Higher	9538	1910.000	-16.58	-13	Pass

Lower Band

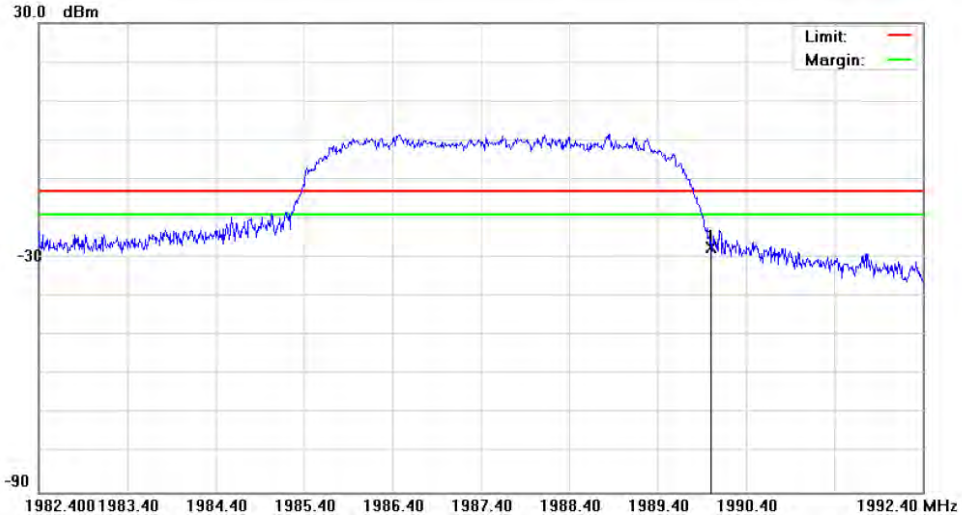
Higher Band

Model Number	Sphere				
Test Item	Band Edge				
Test Mode	Mode 2				
Date of Test	09/24/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	9662	1930.000	-26.56	-13	Pass
Higher	9938	1990.000	-27.59	-13	Pass

Lower Band

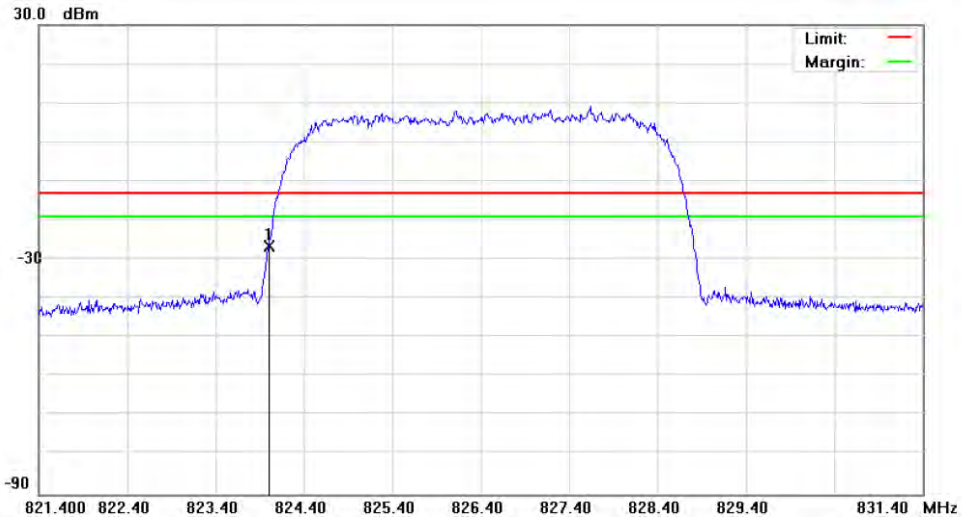


Higher Band



Model Number	Sphere				
Test Item	Band Edge				
Test Mode	Mode 3				
Date of Test	09/24/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4132	824.0000	-26.66	-13	Pass
Higher	4233	849.0000	-27.44	-13	Pass

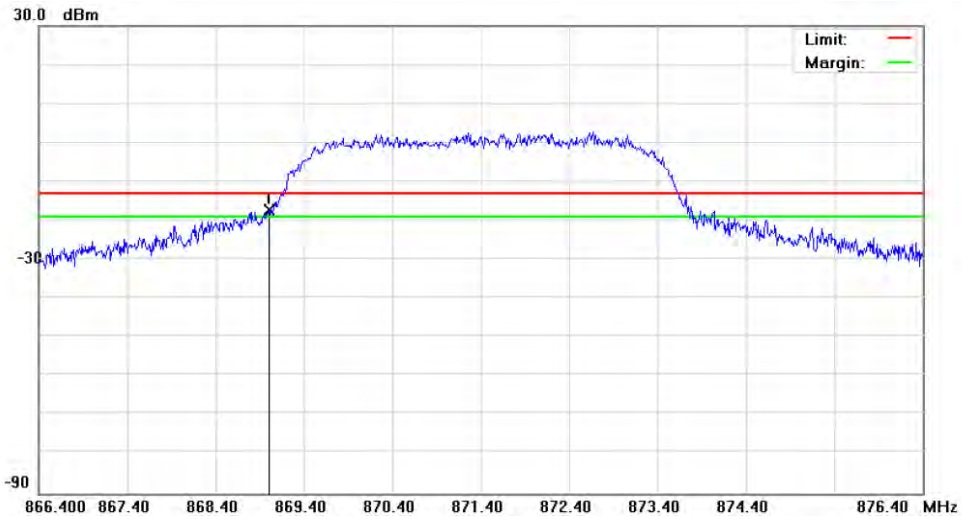
Lower Band



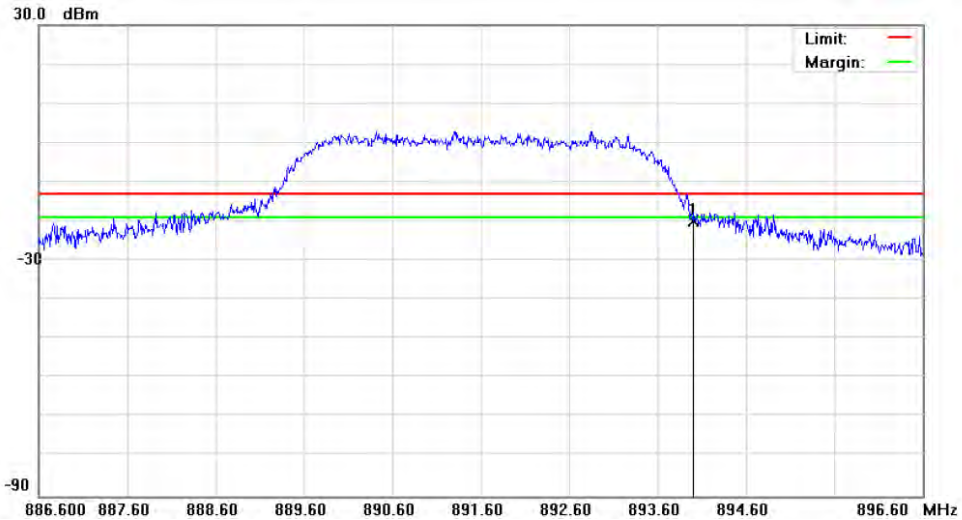
Higher Band

Model Number	Sphere				
Test Item	Band Edge				
Test Mode	Mode 4				
Date of Test	09/24/2010		Test Site	TE02	
Band	Channel	Frequency (MHz)	Bandwidth (dBm)	Limit (dBm)	Result
Lower	4357	869.000	-17.13	-13	Pass
Higher	4458	894.000	-19.85	-13	Pass

Lower Band



Higher Band



4 Conducted Spurious Emissions Test

4.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

4.2. Test Instruments

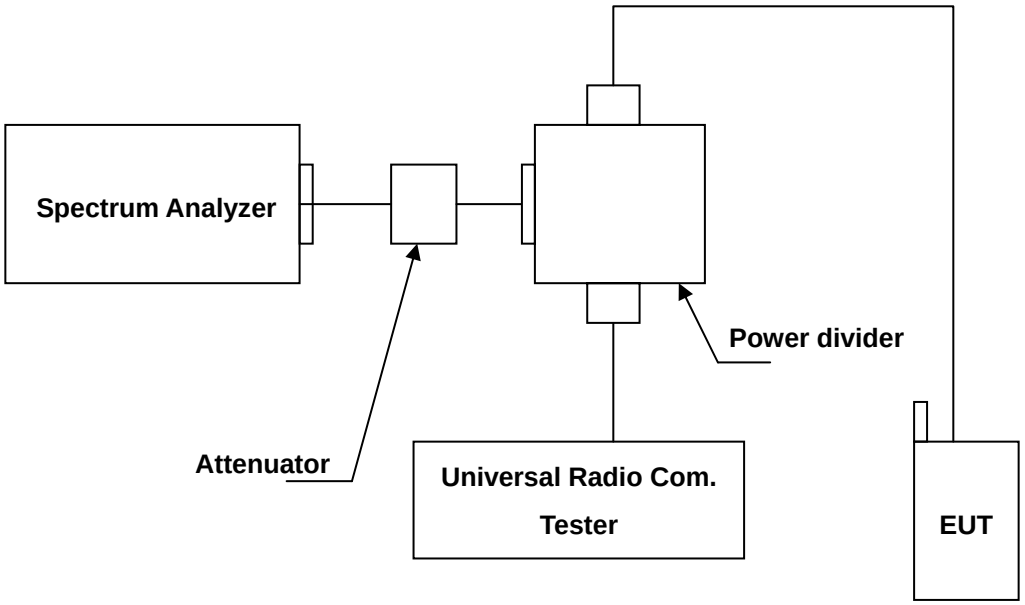
Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2009	(2)
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

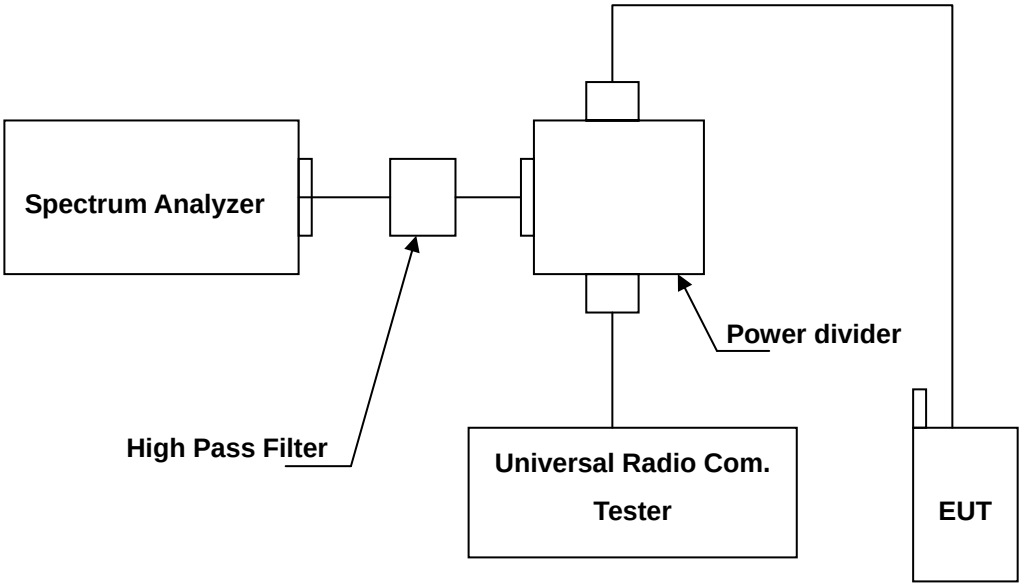
NOTE: N.C.R. = No Calibration Request.

4.3. Setup

Below 2.8GHz



Above 2.8GHz



4.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz; PCS 1900 RB>1MHz, VB>1MHz.

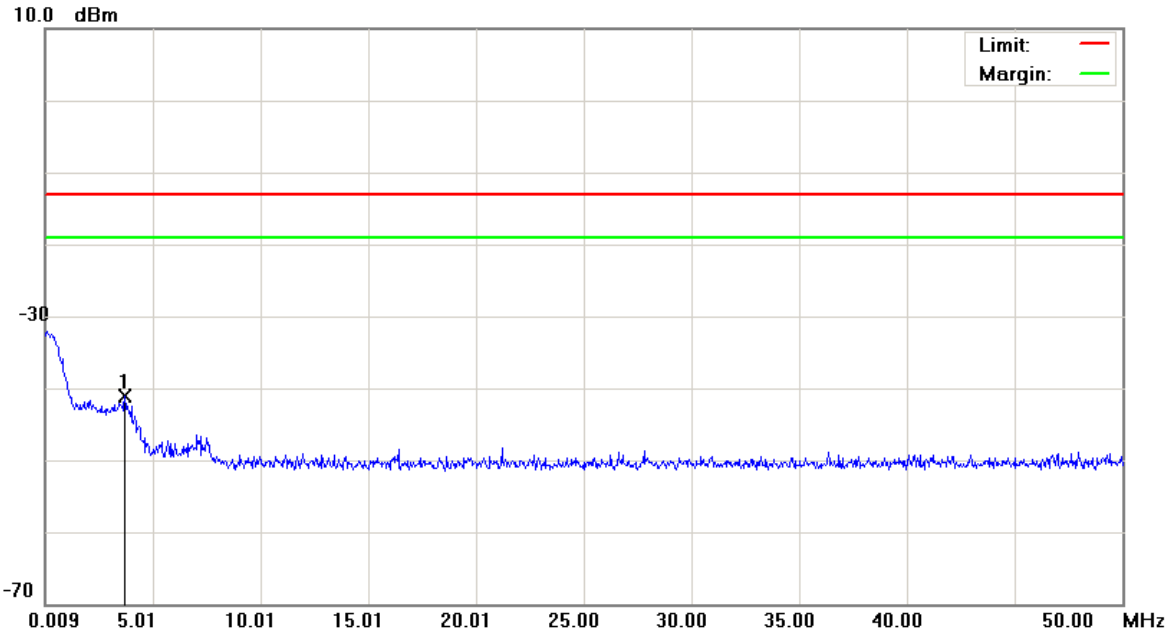
4.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

4.6. Test Result

Model Number	Sphere		
Test Item	Conducted Spurious Emissions		
Mode	Mode 1 / Mode 2 / Mode 3 / Mode 4		
Date of Test	09/24/2010	Test Site	TE02

File :IVWA819(9262) Data :#6 Date: 2010/9/24 Time: PM 04:35:39



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9262

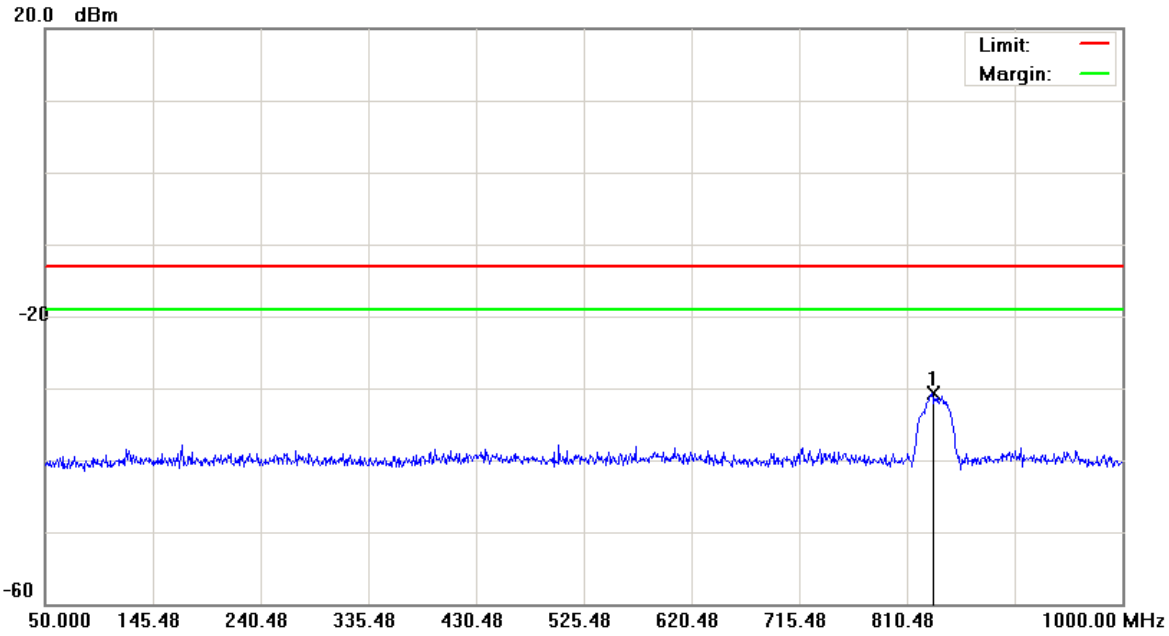
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3.7083	-54.29	13.17	-41.12	-13.00	-28.12	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9262)_tmp Data :#3 Date: 2010/9/24 Time: PM 04:36:03



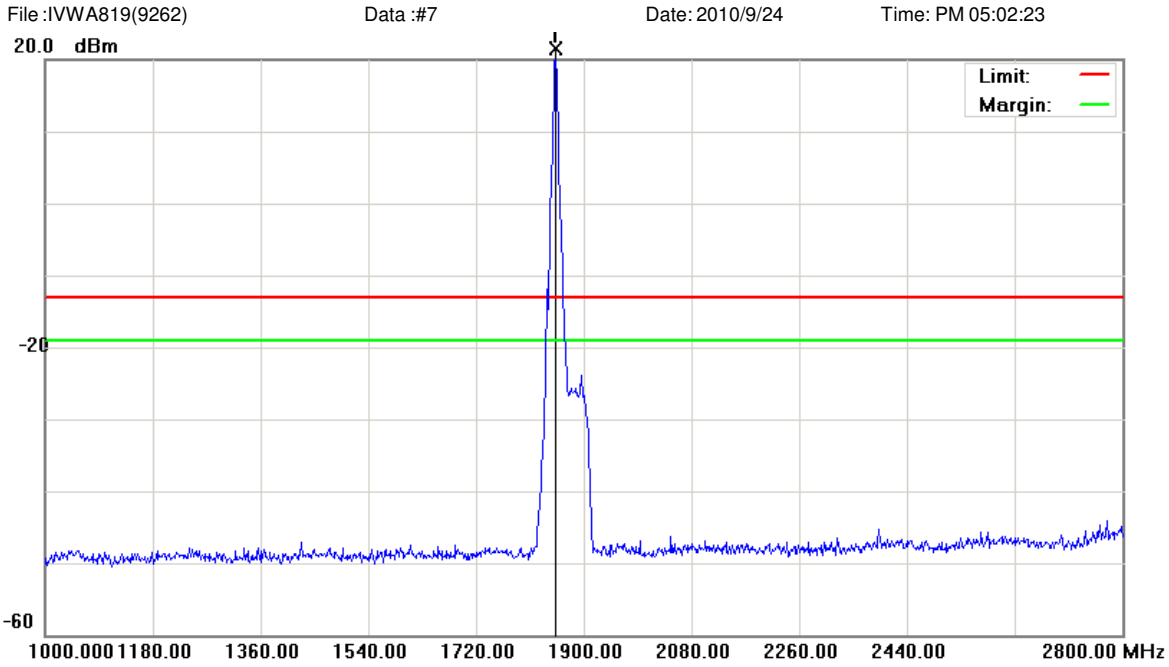
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9262

Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	832.3250	-43.91	13.18	-30.73	-13.00	-17.73	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9262

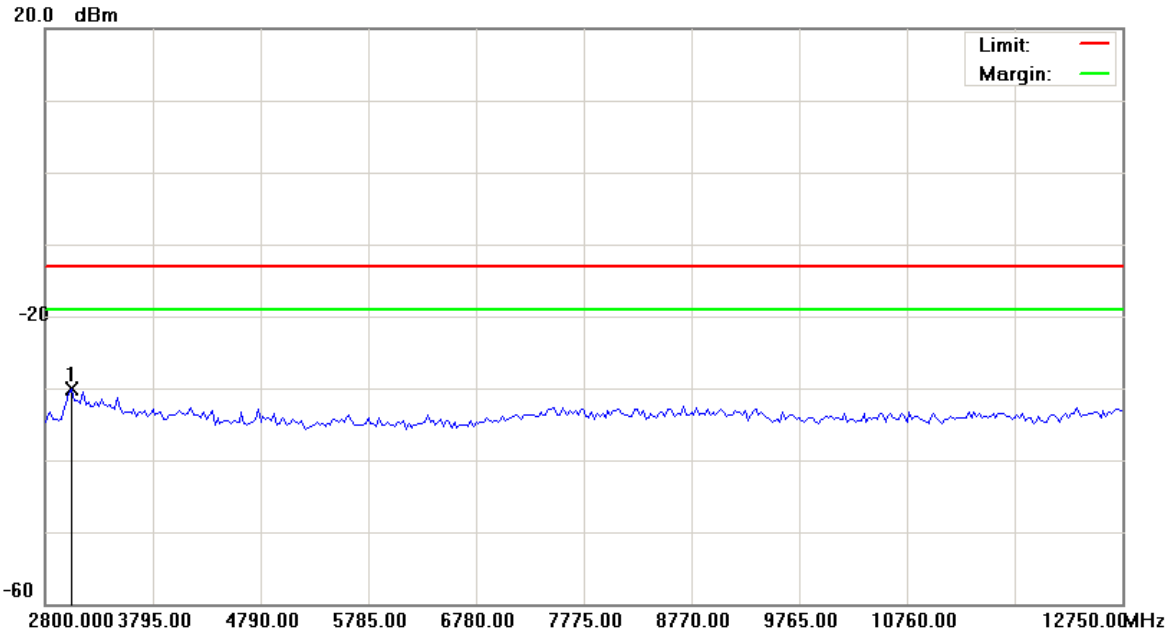
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1853.200	17.31	4.28	21.59	-13.00	34.59	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9262) Data :#8 Date: 2010/9/24 Time: PM 05:19:14



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9262

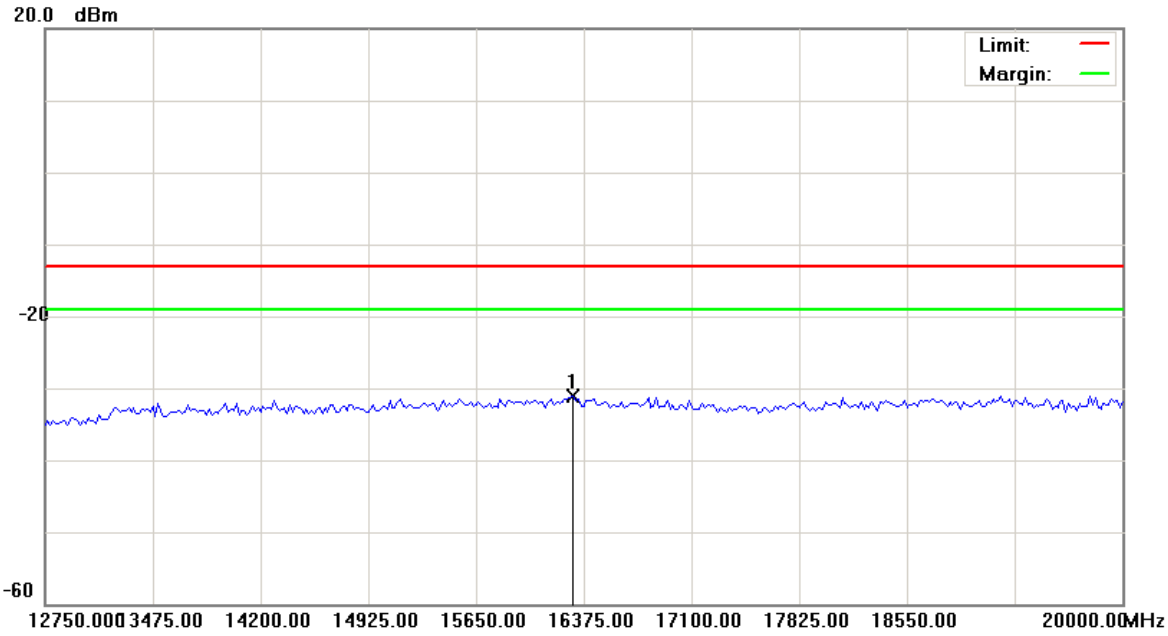
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3048.750	-35.60	5.47	-30.13	-13.00	-17.13	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9262) Data :#9 Date: 2010/9/24 Time: PM 05:19:39



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9262

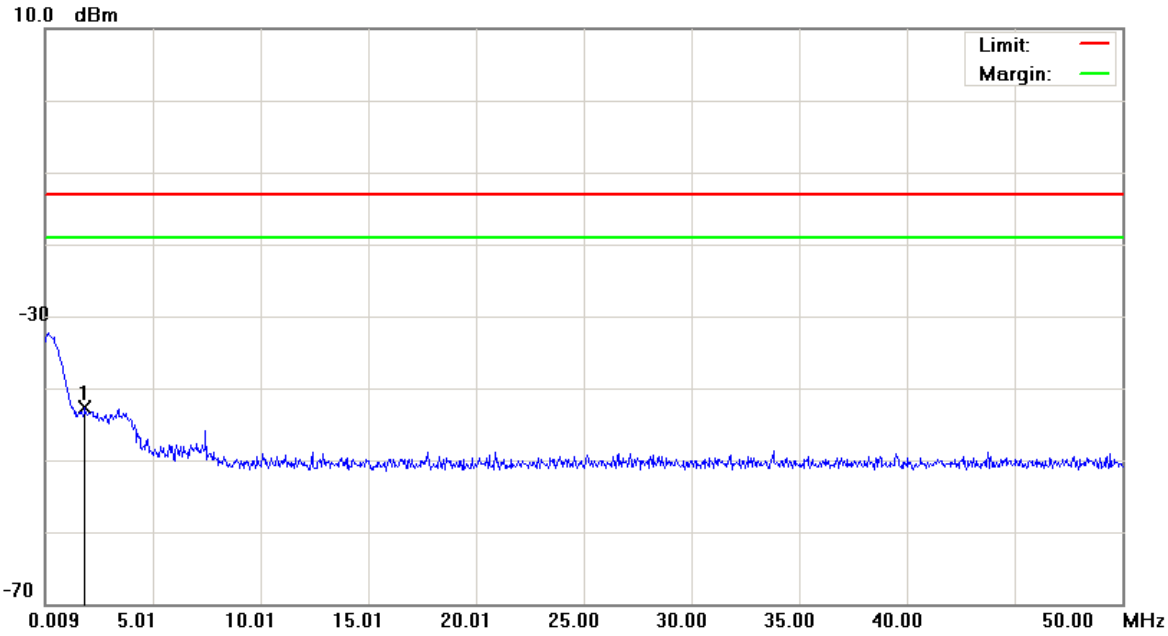
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	16302.500	-37.43	6.38	-31.05	-13.00	-18.05	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9400) Data :#6 Date: 2010/9/24 Time: PM 04:36:58



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9400

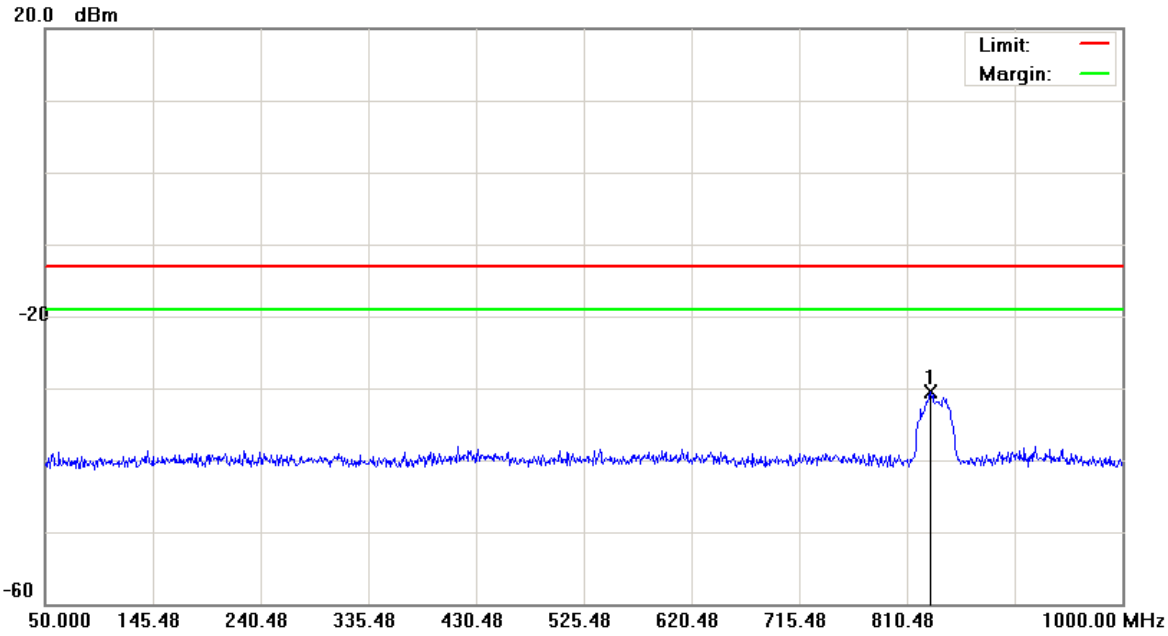
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.8587	-55.58	12.82	-42.76	-13.00	-29.76	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9400) Data :#7 Date: 2010/9/24 Time: PM 04:37:22



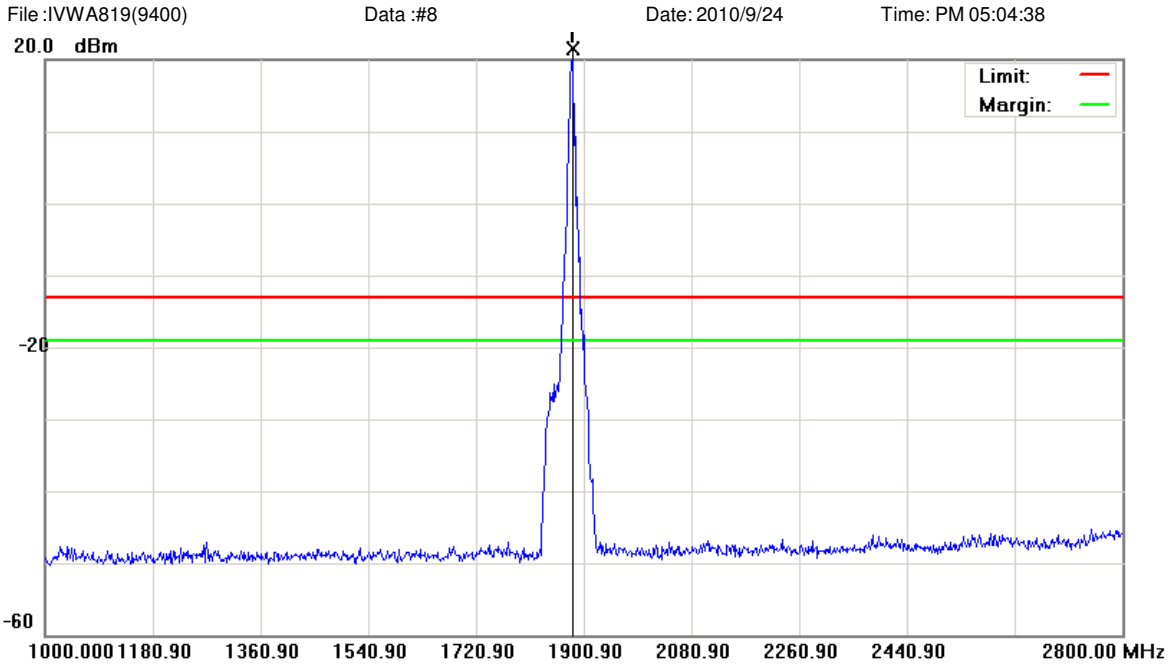
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9400

Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	830.9000	-43.70	13.18	-30.52	-13.00	-17.52	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9400

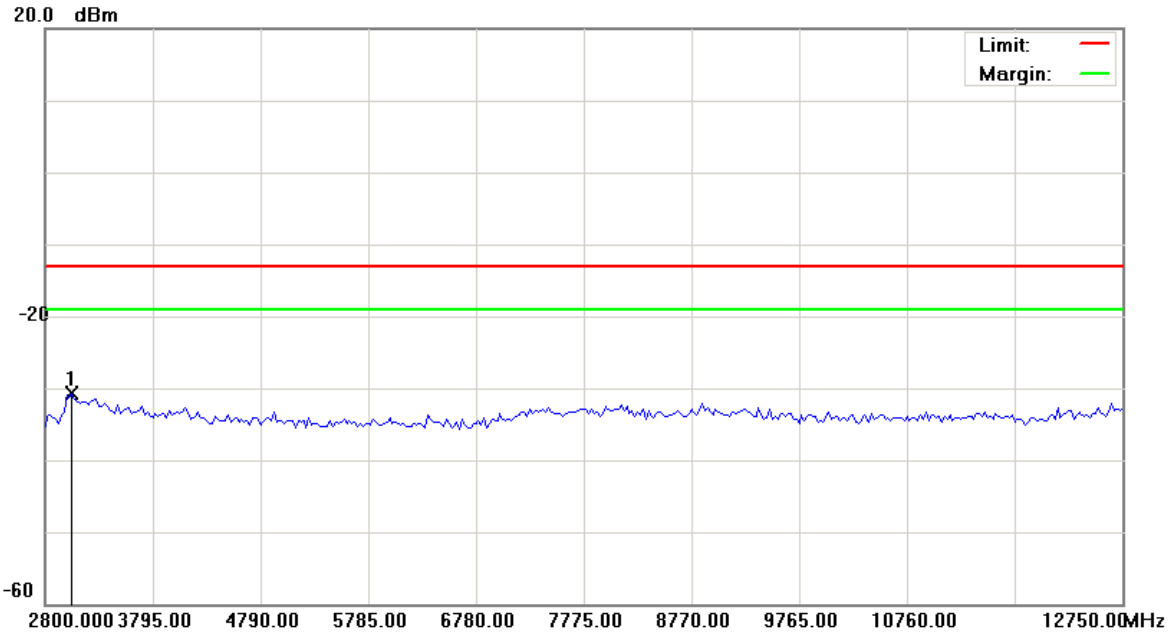
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1881.100	16.81	4.74	21.55	-13.00	34.55	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9400) Data :#9 Date: 2010/9/24 Time: PM 05:23:07



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9400

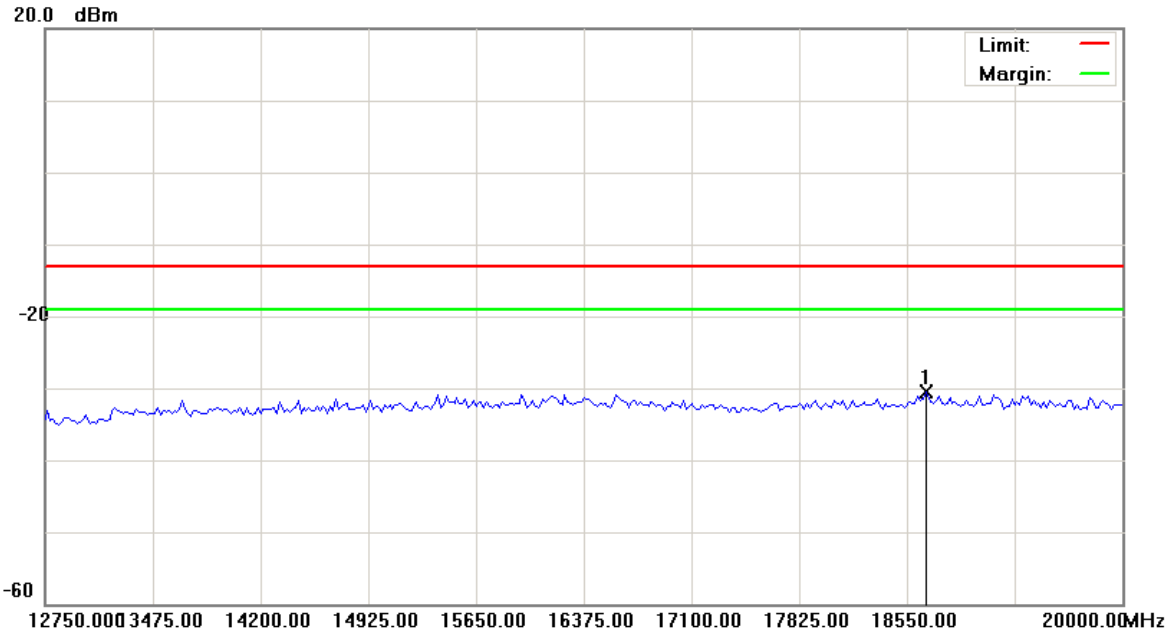
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3048.750	-36.19	5.47	-30.72	-13.00	-17.72	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9400) Data :#10 Date: 2010/9/24 Time: PM 05:23:32



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9400

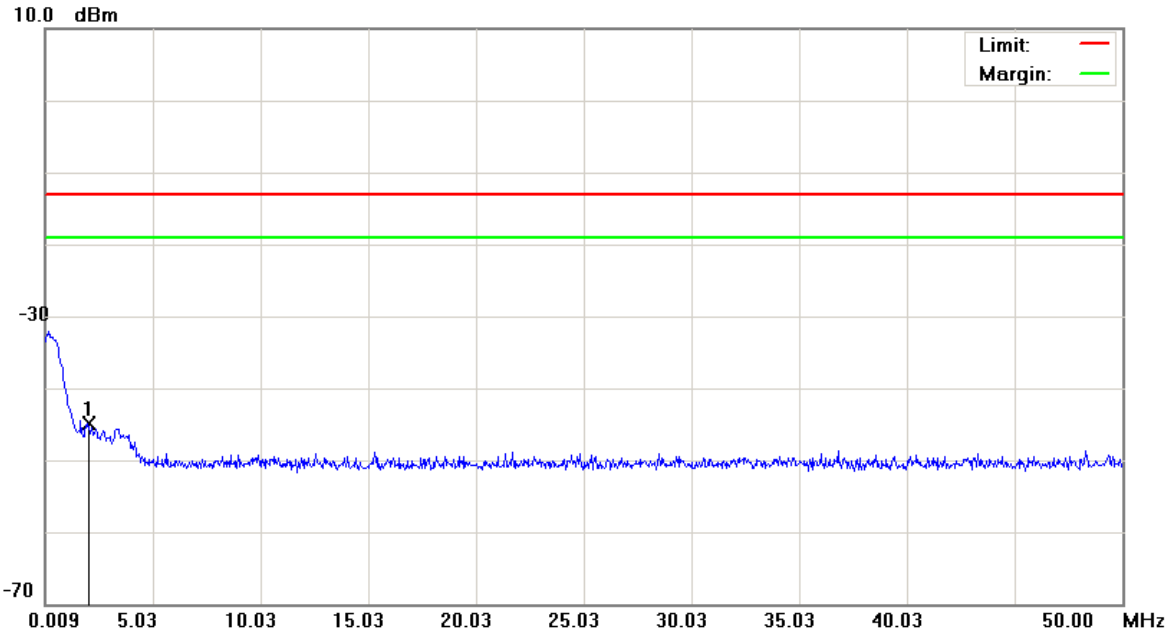
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	18676.875	-37.55	7.06	-30.49	-13.00	-17.49	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9538) Data :#6 Date: 2010/9/24 Time: PM 04:38:15



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9538

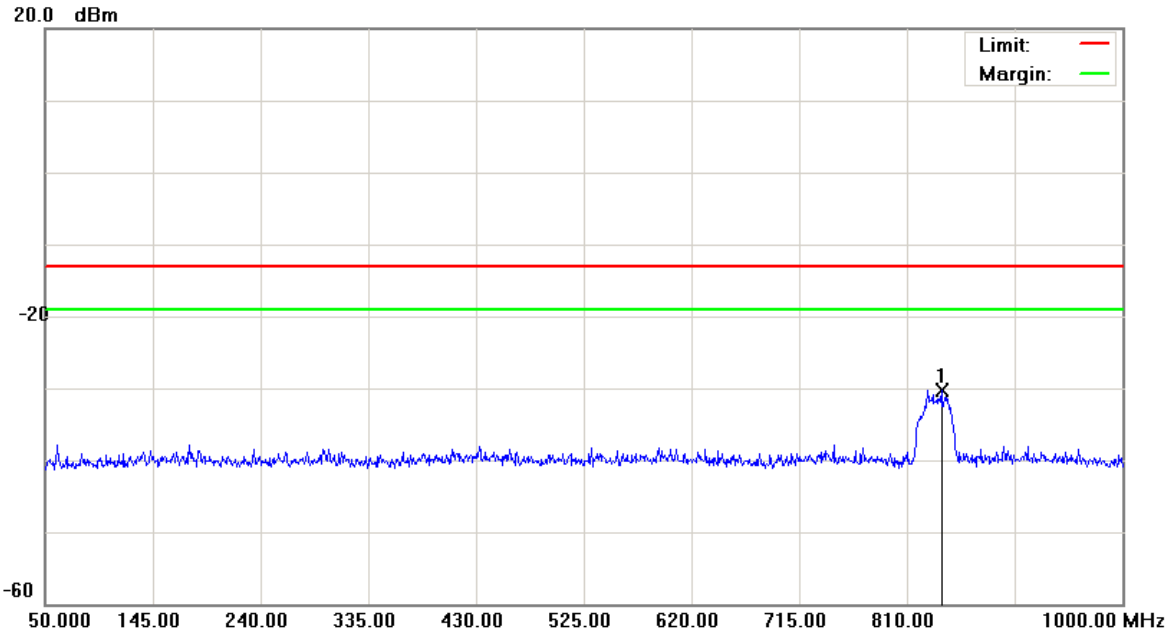
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.9836	-58.02	13.14	-44.88	-13.00	-31.88	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9538) Data :#7 Date: 2010/9/24 Time: PM 04:38:39



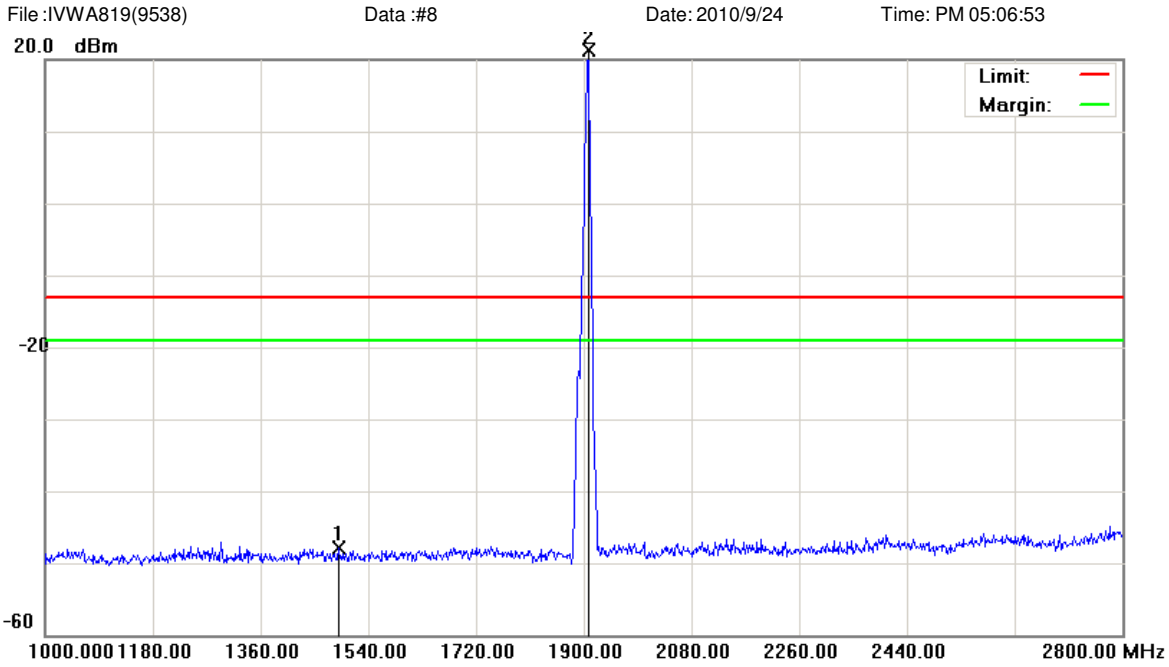
Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9538

Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	840.8750	-43.42	13.22	-30.20	-13.00	-17.20	peak			

*:Maximum data x:Over limit !:over margin



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9538

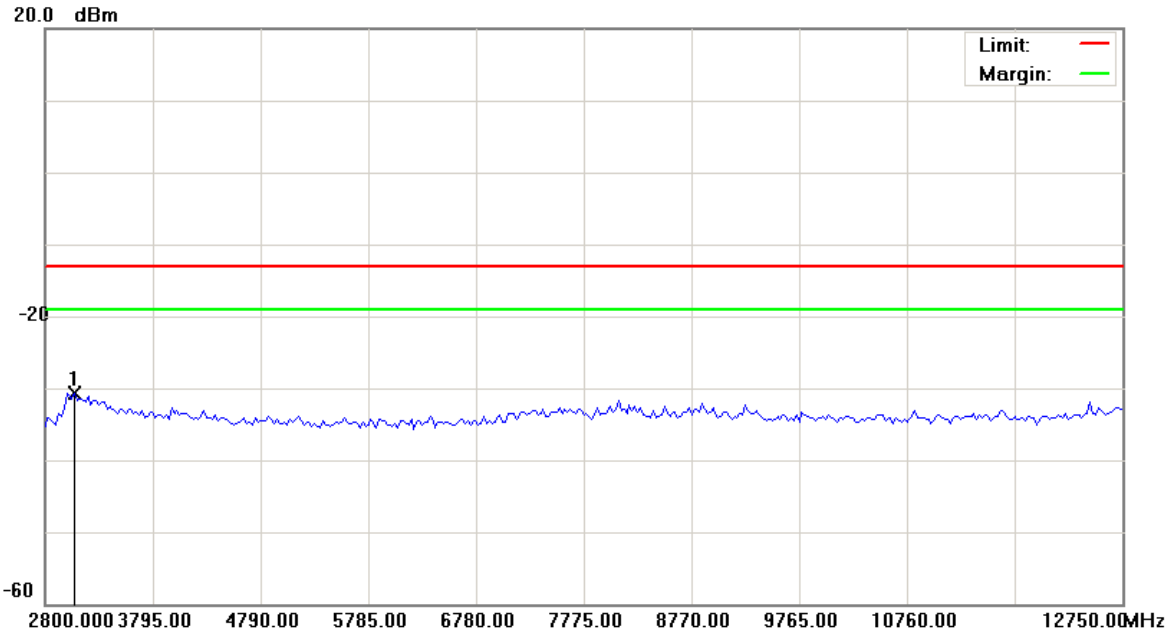
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1489.600	-52.26	4.36	-47.90	-13.00	-34.90	peak			
2	*	1906.300	15.33	6.05	21.38	-13.00	34.38	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(9538) Data :#9 Date: 2010/9/24 Time: PM 05:26:06



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9538

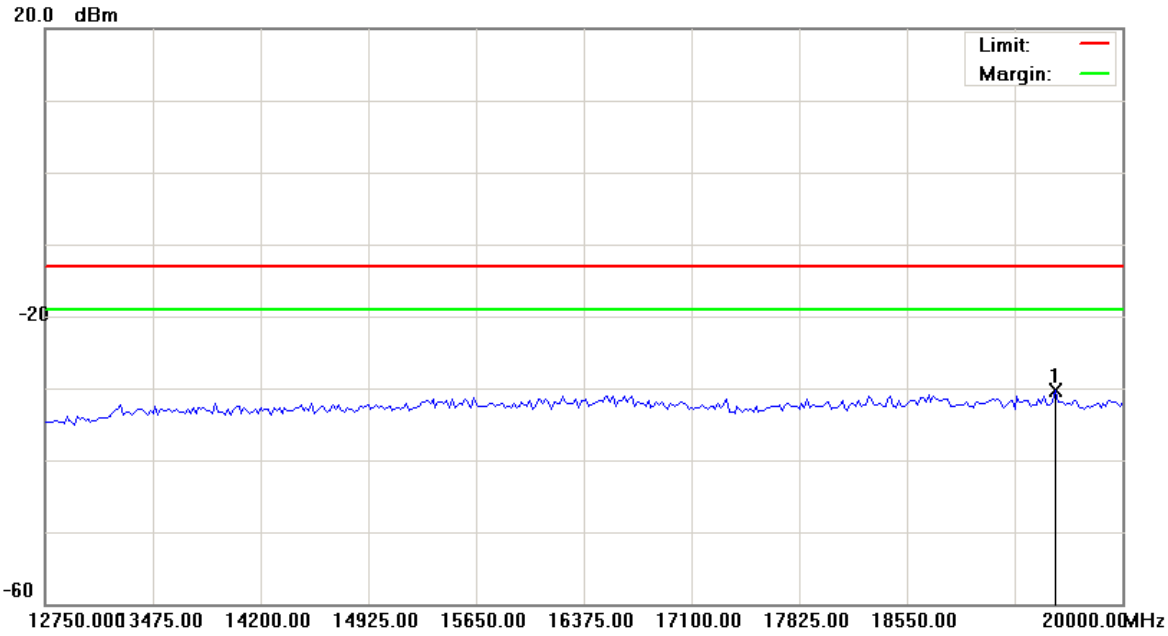
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3073.625	-36.12	5.40	-30.72	-13.00	-17.72	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9538) Data :#10 Date: 2010/9/24 Time: PM 05:26:32



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 1
Note: CH9538

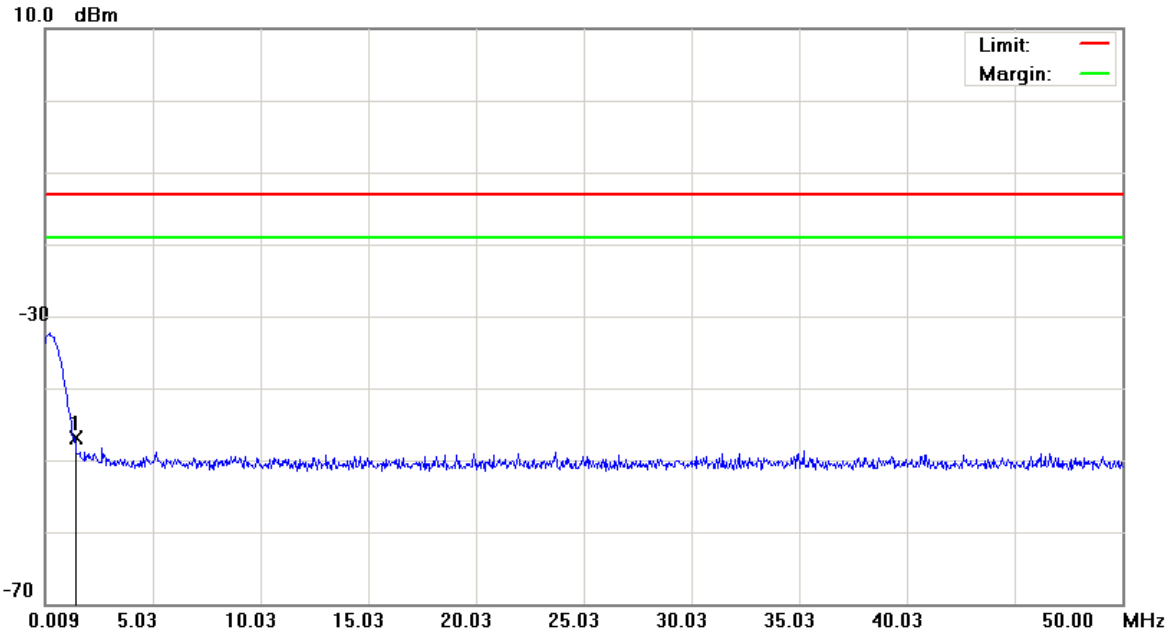
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19546.875	-37.52	7.31	-30.21	-13.00	-17.21	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9662) Data :#1 Date: 2010/9/24 Time: PM 06:10:28



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9662

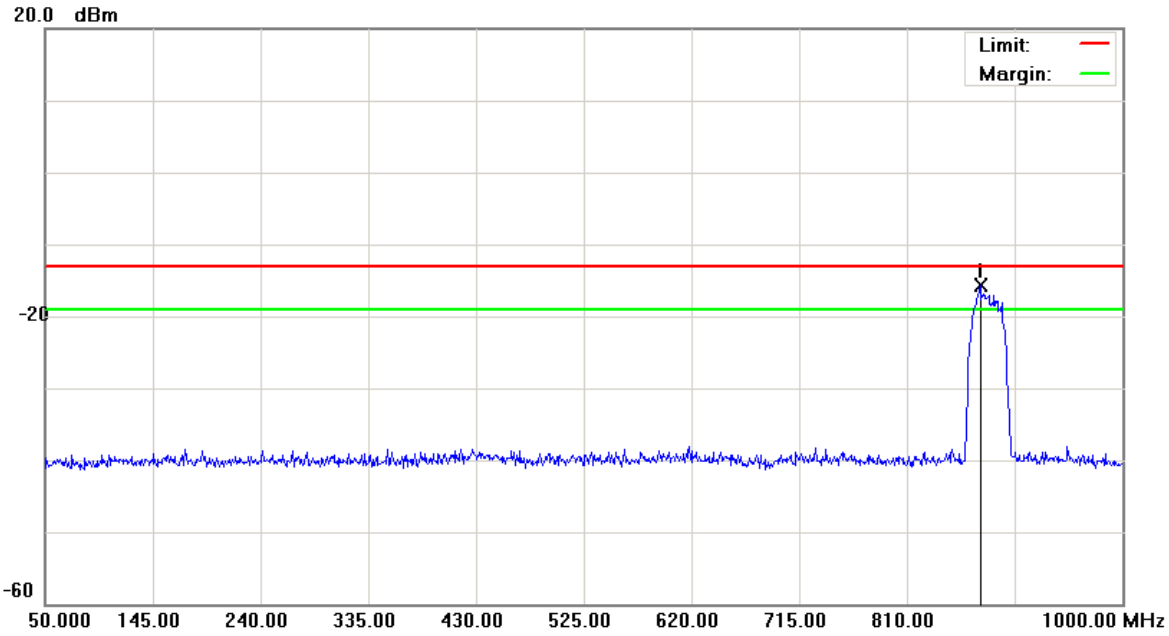
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.3837	-59.54	12.65	-46.89	-13.00	-33.89	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9662) Data :#2 Date: 2010/9/24 Time: PM 06:10:53



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9662

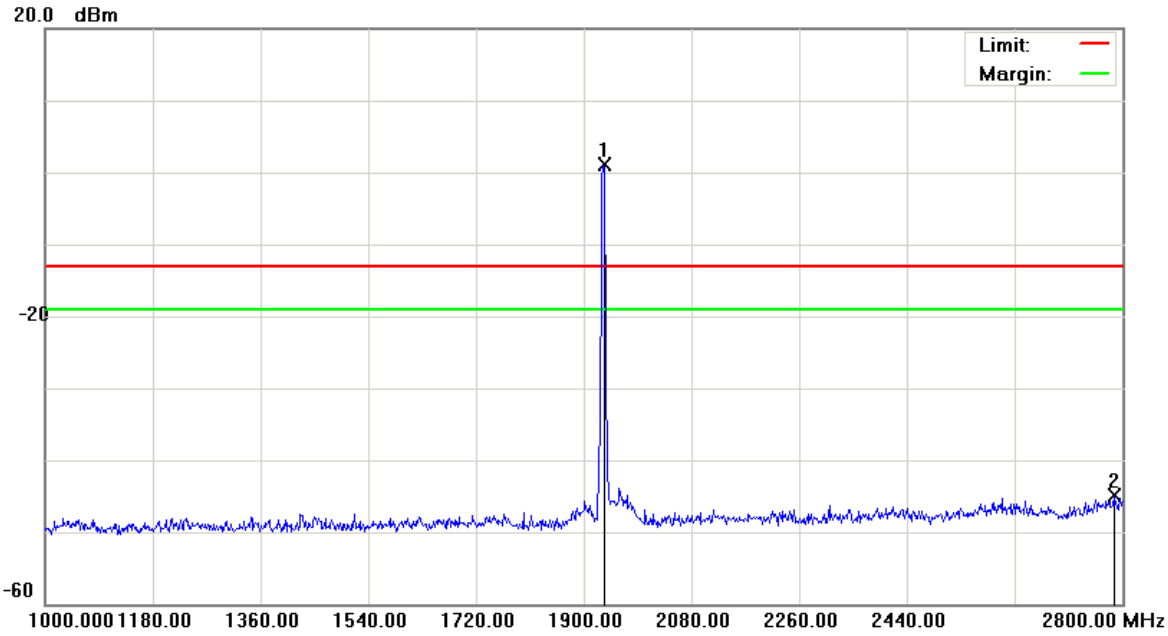
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	874.6000	-29.06	13.27	-15.79	-13.00	-2.79	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9662) Data :#3 Date: 2010/9/24 Time: PM 06:11:23



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9662

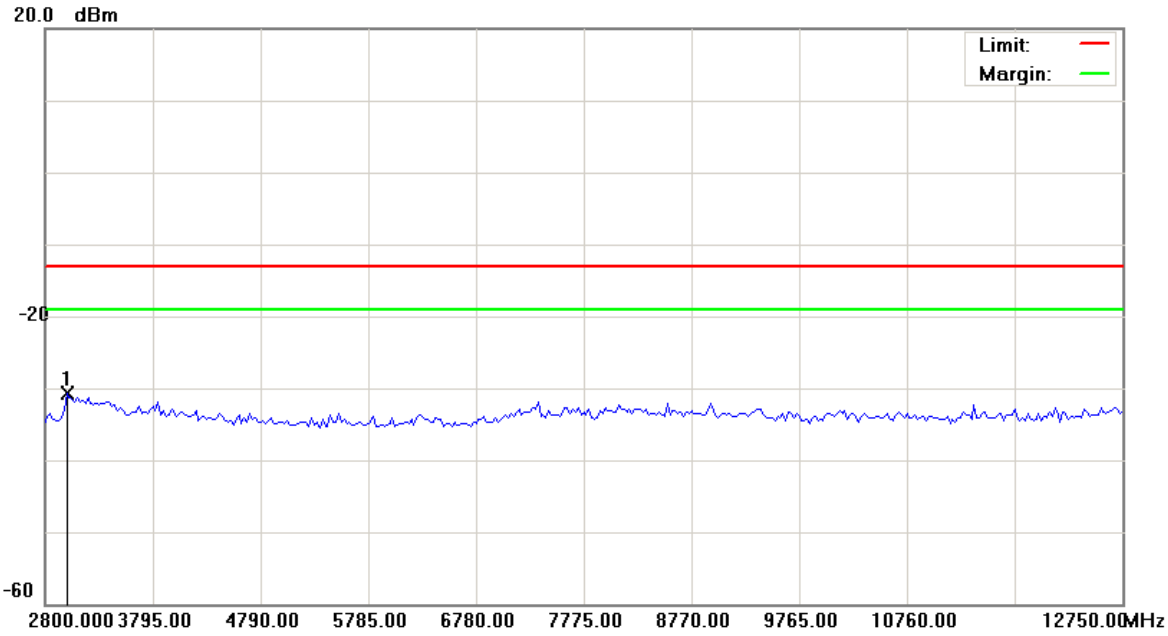
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1933.300	-3.62	4.66	1.04	-13.00	14.04	peak			TX
2		2786.500	-50.83	5.89	-44.94	-13.00	-31.94	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9662) Data :#4 Date: 2010/9/24 Time: PM 06:24:10



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9662

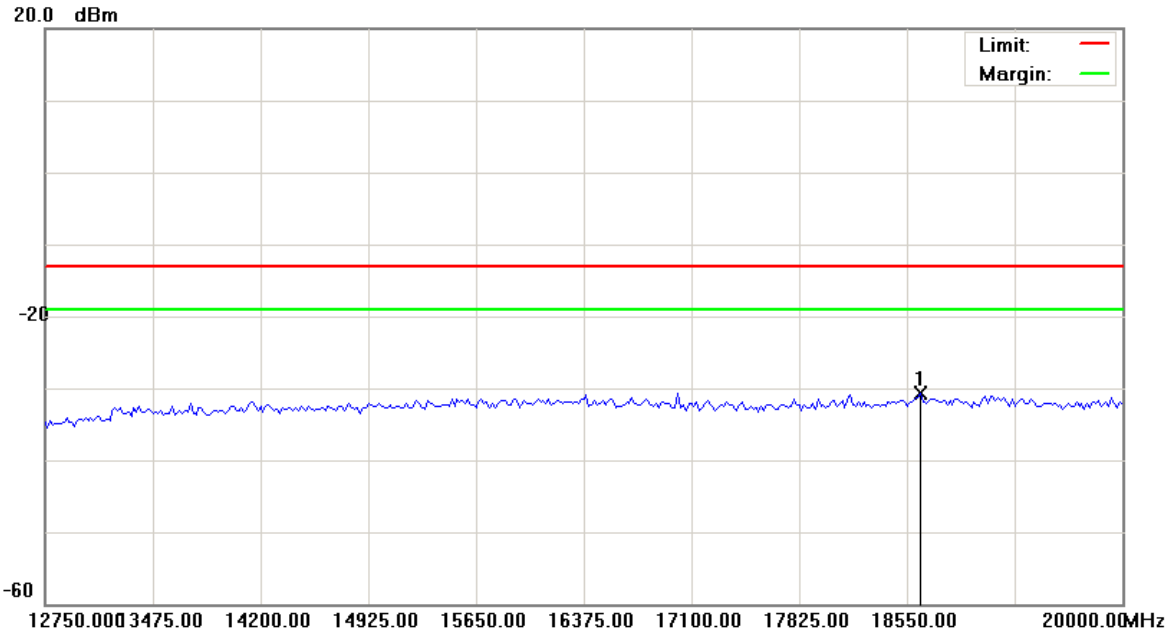
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2999.000	-36.25	5.48	-30.77	-13.00	-17.77	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9662) Data :#5 Date: 2010/9/24 Time: PM 06:24:35



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9662

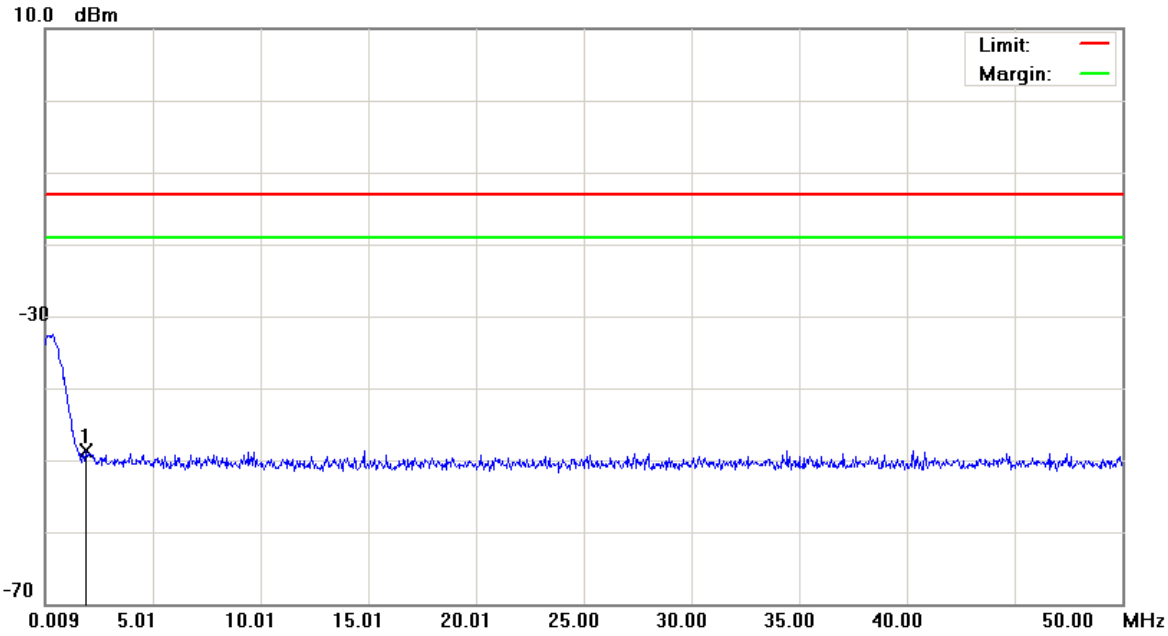
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	18640.625	-37.72	7.05	-30.67	-13.00	-17.67	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9800) Data :#1 Date: 2010/9/24 Time: PM 06:15:30



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9800

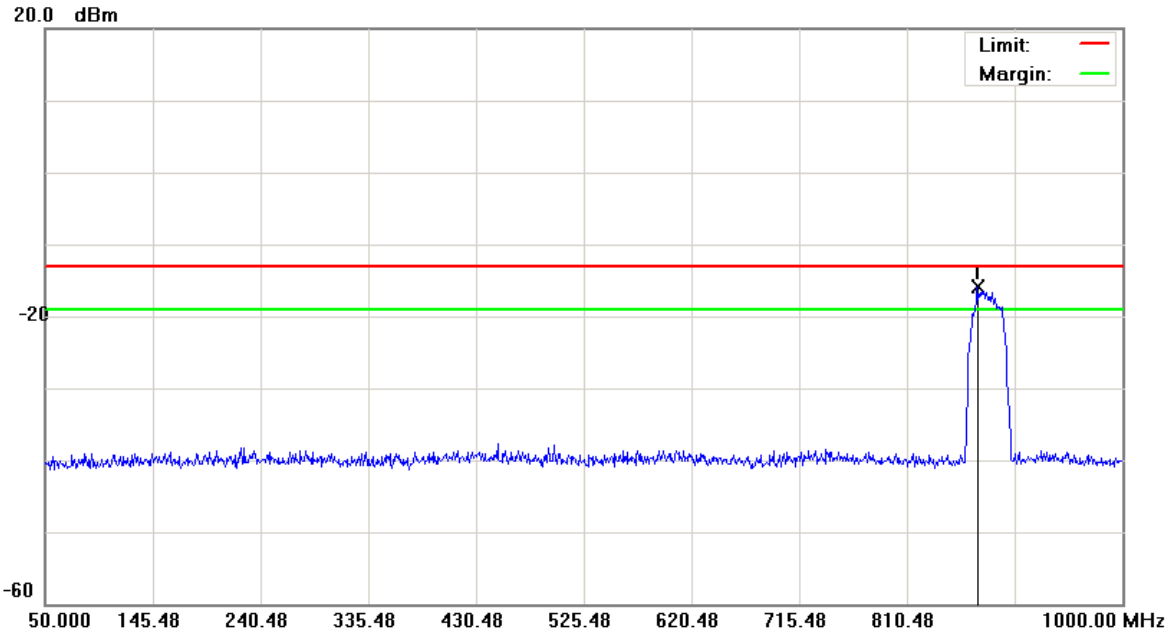
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.9087	-61.66	12.95	-48.71	-13.00	-35.71	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9800) Data :#2 Date: 2010/9/24 Time: PM 06:15:54



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9800

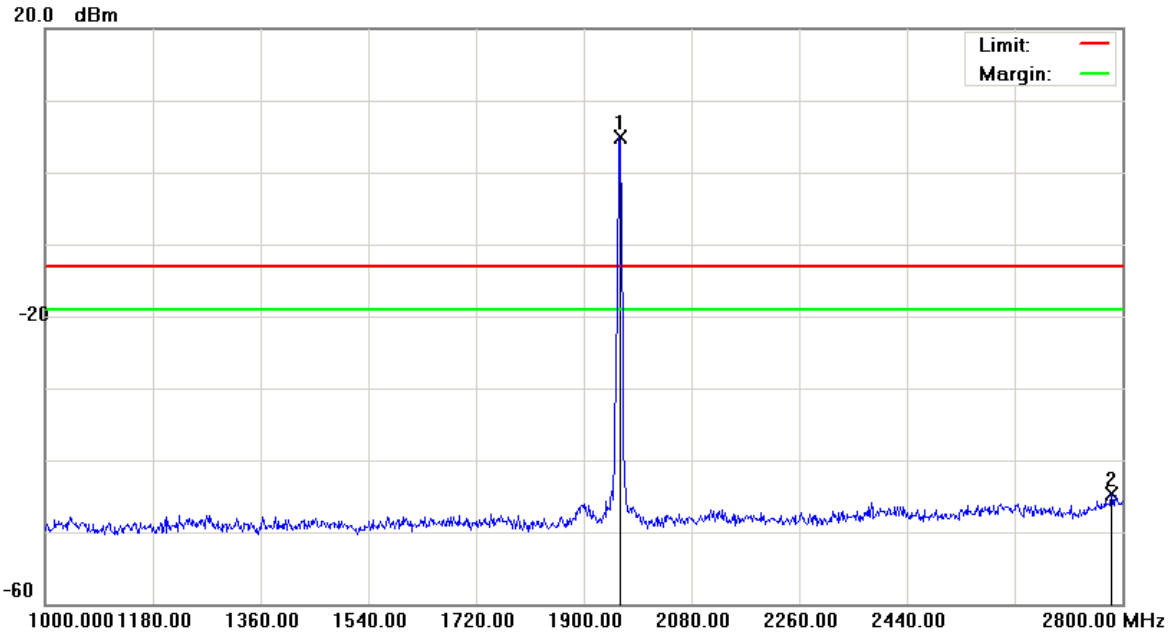
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	872.2250	-29.26	13.27	-15.99	-13.00	-2.99	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9800) Data :#3 Date: 2010/9/24 Time: PM 06:16:39



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9800

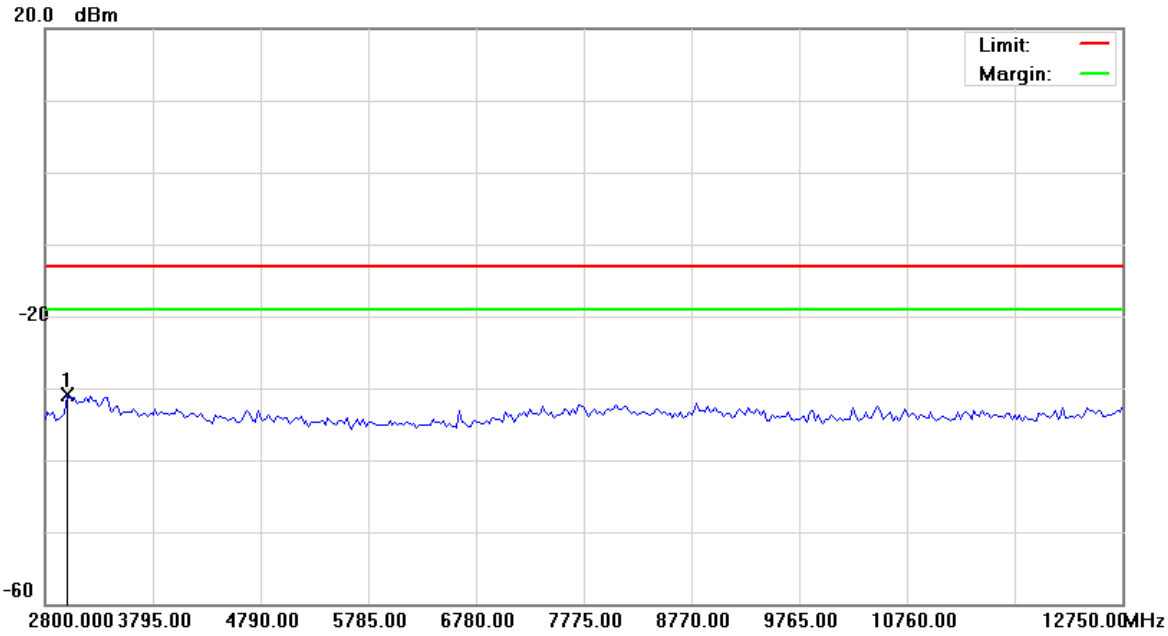
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1960.300	0.10	4.73	4.83	-13.00	17.83	peak			TX
2		2782.000	-50.62	5.88	-44.74	-13.00	-31.74	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9800) Data :#4 Date: 2010/9/24 Time: PM 06:22:43



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9800

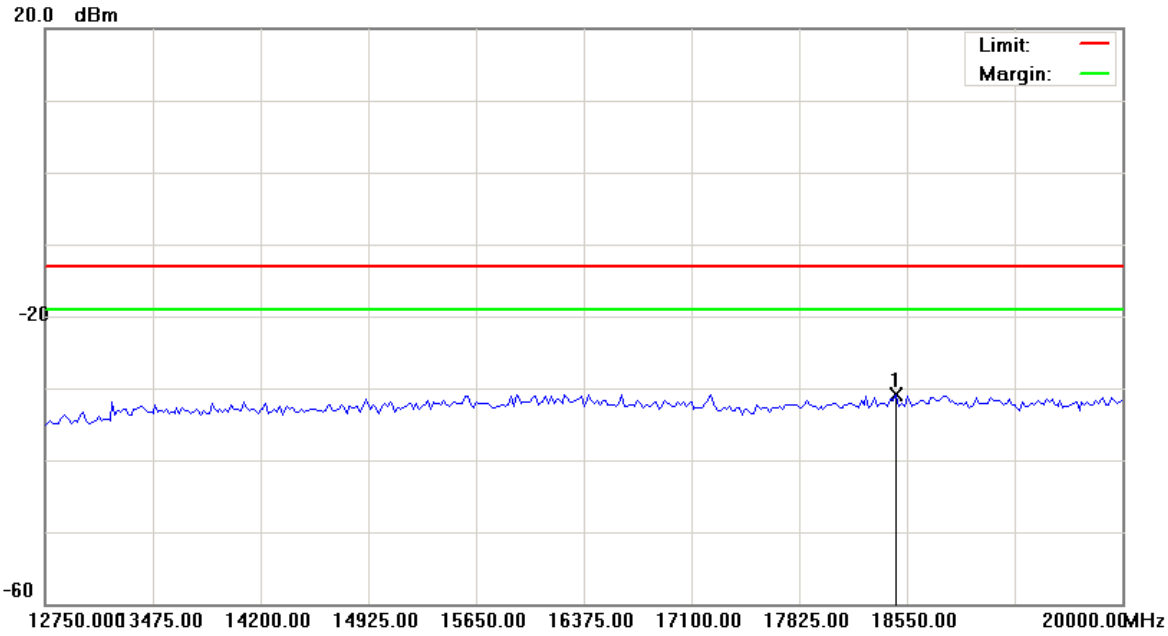
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2999.000	-36.44	5.48	-30.96	-13.00	-17.96	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9800) Data :#5 Date: 2010/9/24 Time: PM 06:23:08



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9800

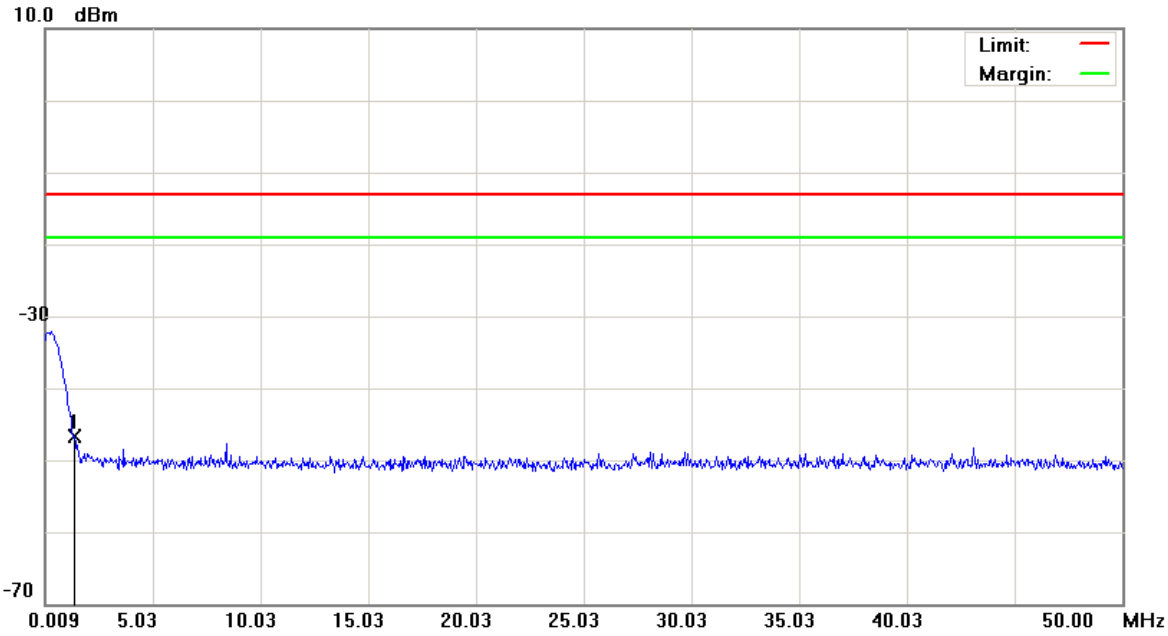
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	18477.500	-37.81	7.01	-30.80	-13.00	-17.80	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9938) Data :#1 Date: 2010/9/24 Time: PM 06:18:15



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9938

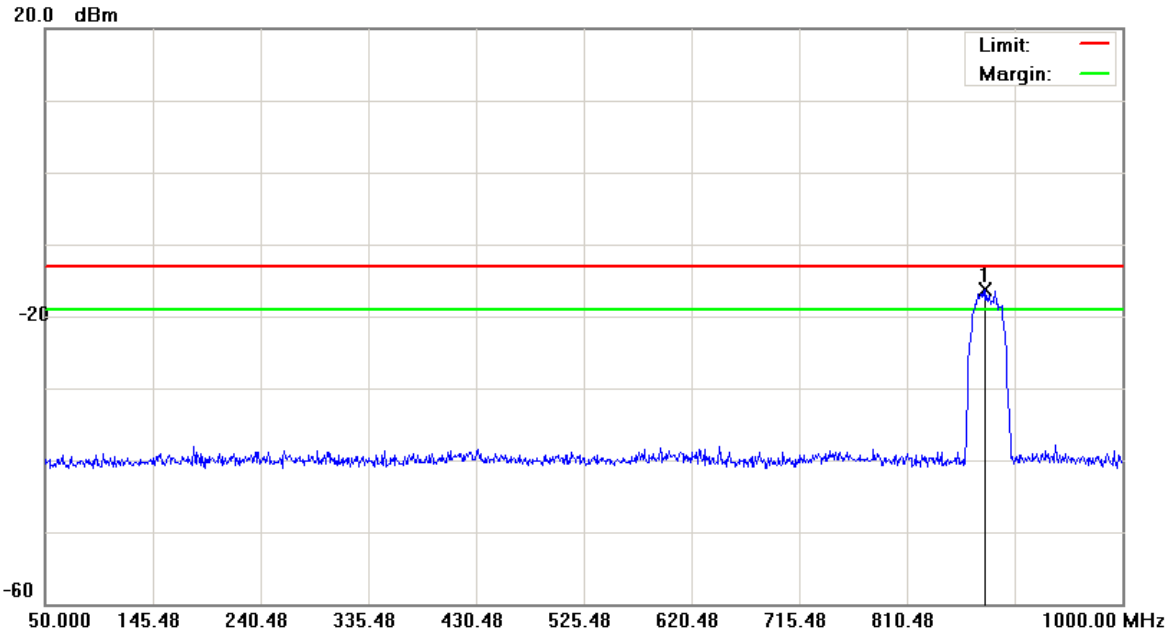
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.3588	-59.28	12.66	-46.62	-13.00	-33.62	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9938) Data :#2 Date: 2010/9/24 Time: PM 06:18:39



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9938

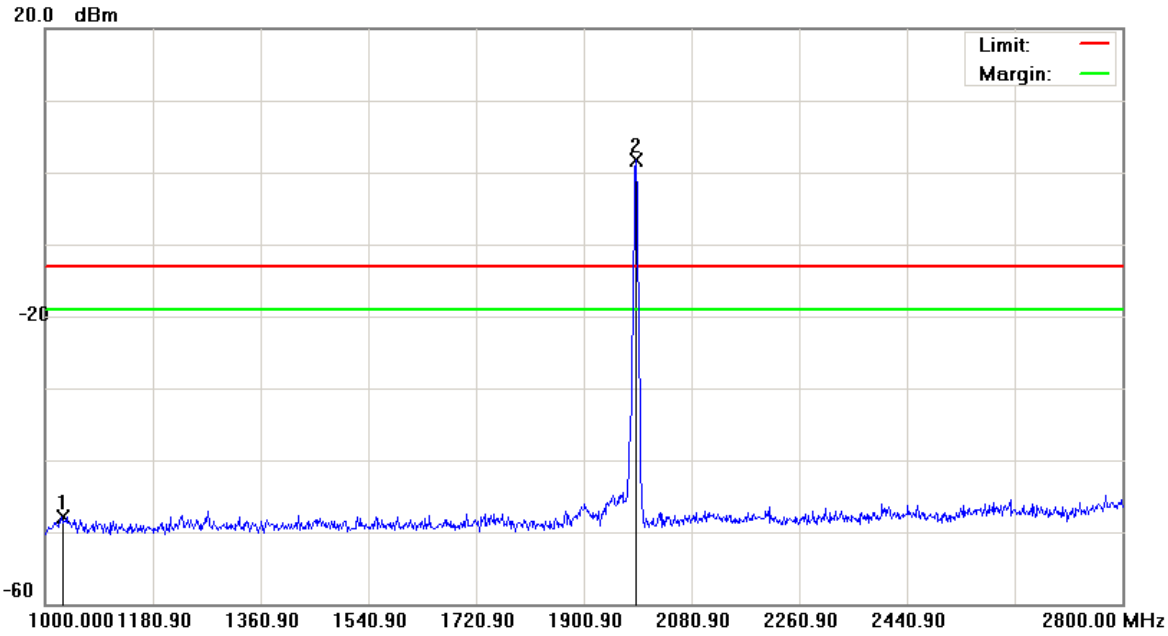
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	879.3500	-29.52	13.20	-16.32	-13.00	-3.32	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9938) Data :#3 Date: 2010/9/24 Time: PM 06:19:10



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9938

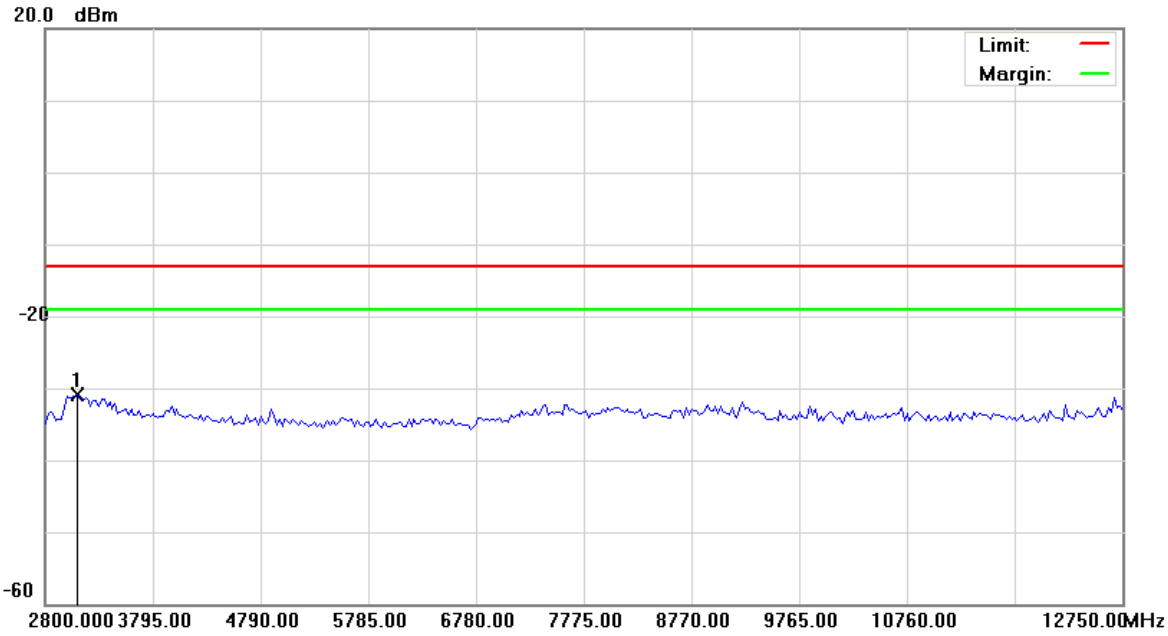
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		1027.900	-52.31	4.36	-47.95	-13.00	-34.95	peak			
2	*	1986.400	-3.03	4.69	1.66	-13.00	14.66	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9938) Data :#4 Date: 2010/9/24 Time: PM 06:20:50



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9938

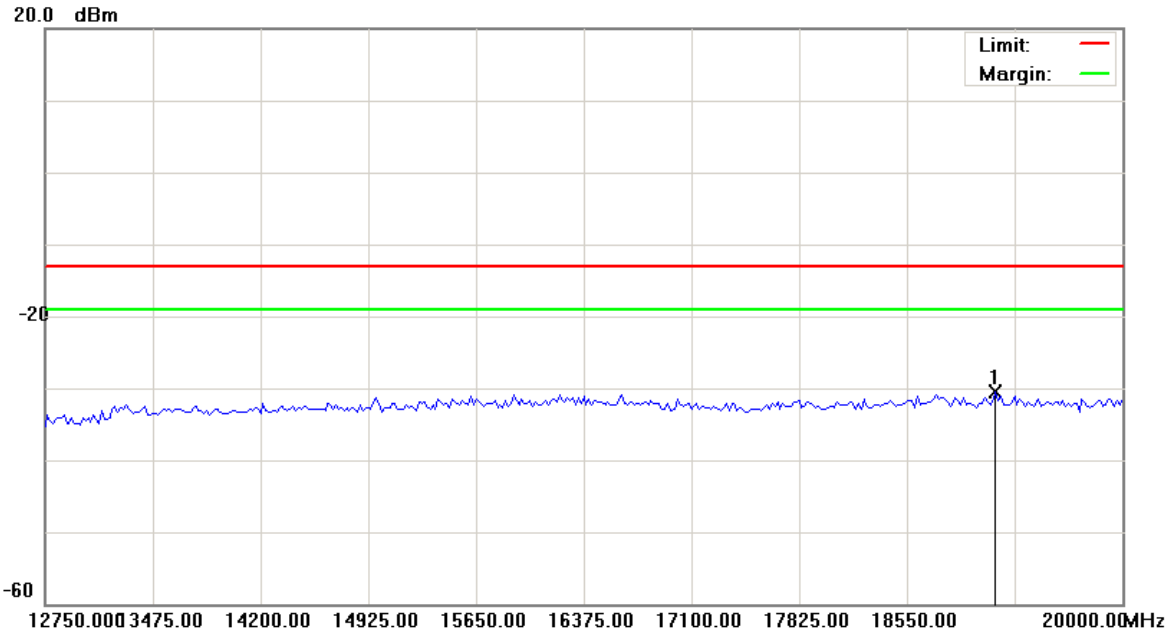
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	3098.500	-36.13	5.32	-30.81	-13.00	-17.81	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(9938) Data :#5 Date: 2010/9/24 Time: PM 06:21:15



Site: : RF Conducted
Limit: FCC Part 24 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 2
Note: CH9938

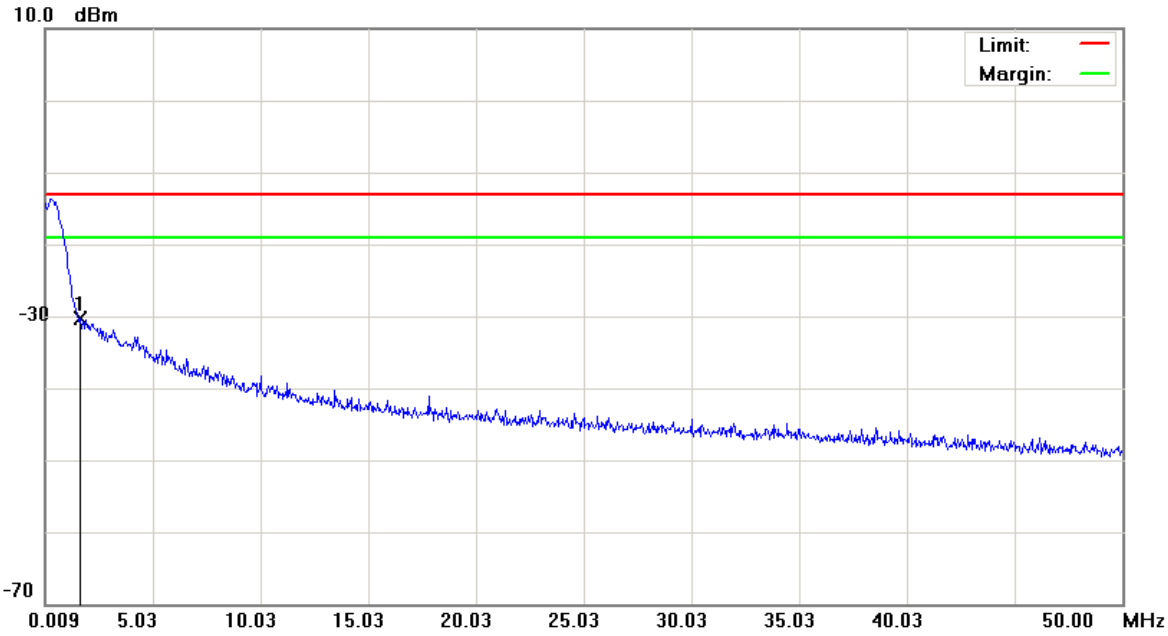
Polarization: Conducted po
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	19148.125	-37.71	7.20	-30.51	-13.00	-17.51	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4132) Data :#5 Date: 2010/9/24 Time: PM 04:40:14



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4132

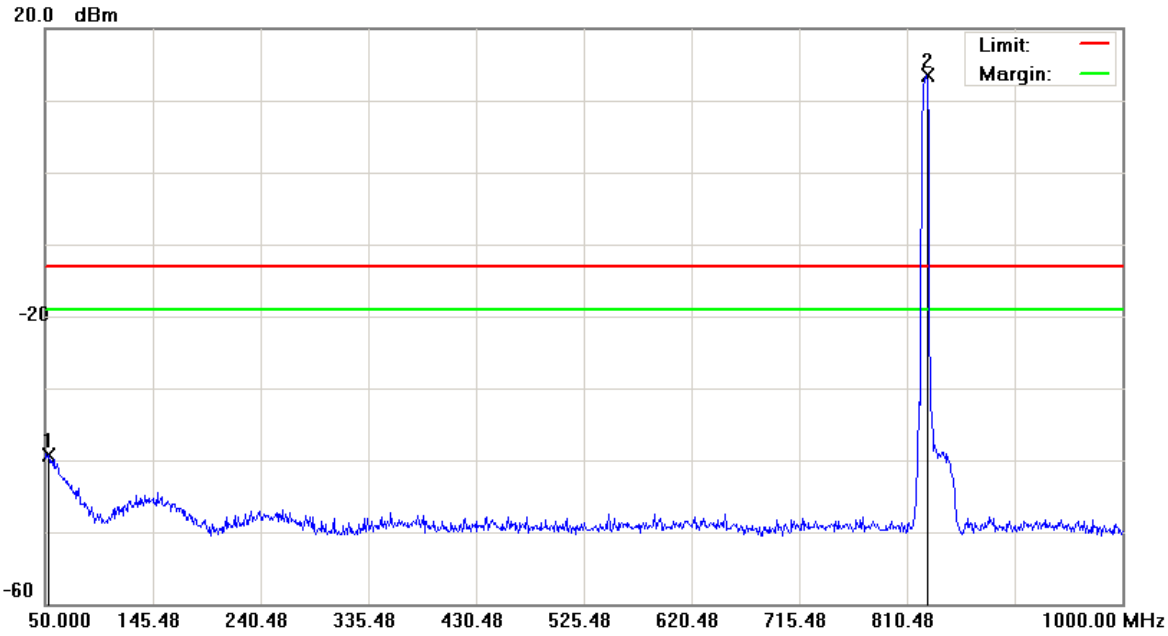
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.6587	-61.41	31.10	-30.31	-13.00	-17.31	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4132) Data :#6 Date: 2010/9/24 Time: PM 04:40:38

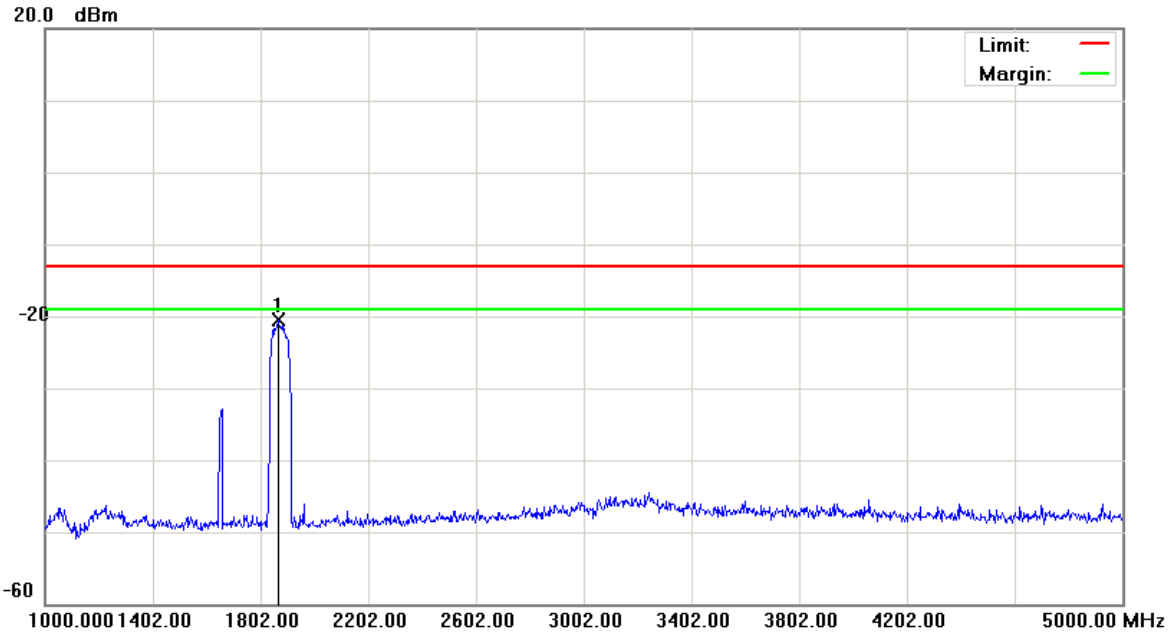


Site: : RF Conducted	Polarization:	Temperature: 26 ℃
Limit: FCC Part 22 conducted(9k-12.75G)	Power: AC 120V/60Hz	Humidity: 55 %
EUT: Wireless Inner Structure	Distance:	RBW: 1000 MHz VBW: 1000 MHz
M/N: Sphere		
Mode: 3		
Note: CH4132		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		52.8500	-53.57	14.19	-39.38	-13.00	-26.38	peak			
2	*	827.5750	9.65	3.87	13.52	-13.00	26.52	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4132) Data :#7 Date: 2010/9/24 Time: PM 04:50:42



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4132

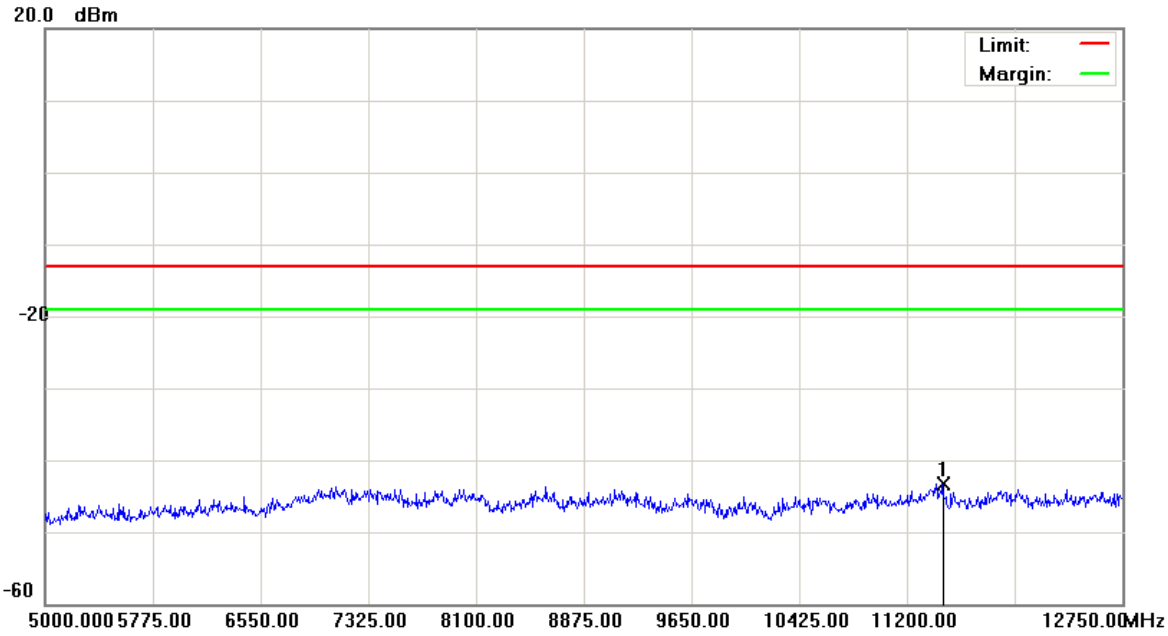
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1864.000	-24.84	4.34	-20.50	-13.00	-7.50	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4132) Data :#8 Date: 2010/9/24 Time: PM 04:51:05



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4132

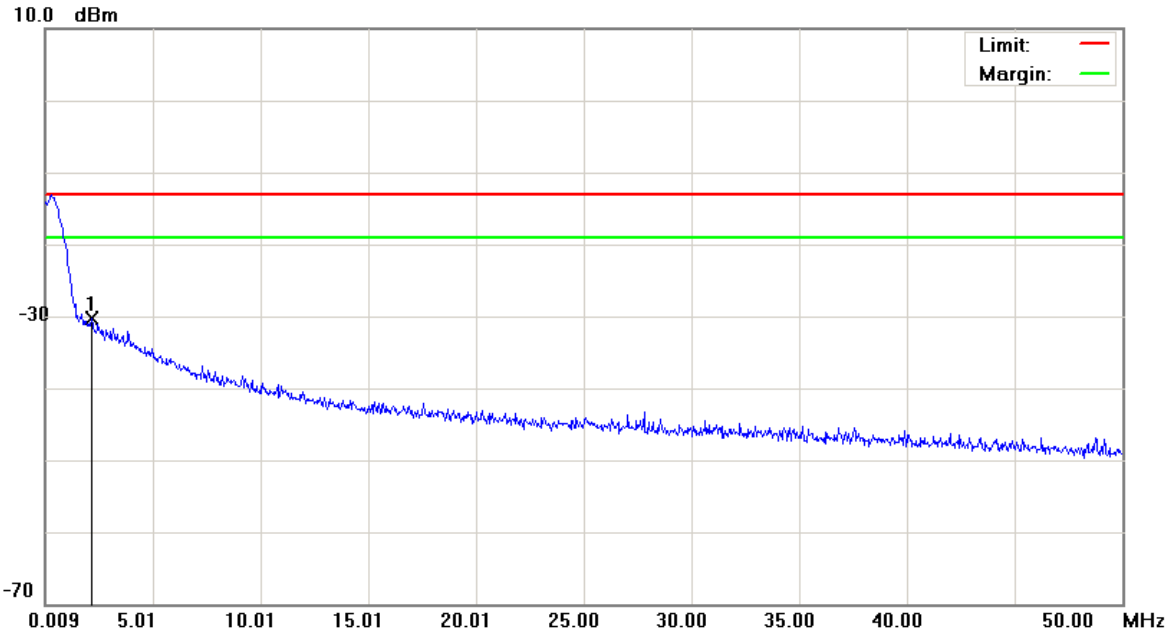
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	11459.625	-48.69	5.41	-43.28	-13.00	-30.28	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4182) Data :#5 Date: 2010/9/24 Time: PM 04:41:39



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4182

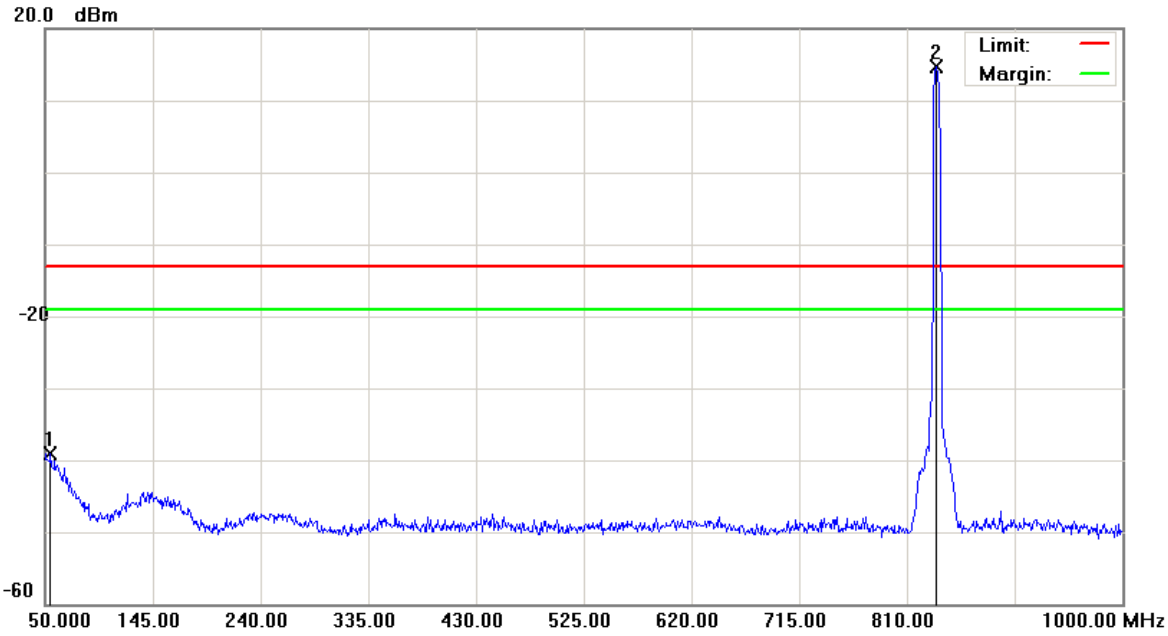
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2.1586	-61.61	31.41	-30.20	-13.00	-17.20	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4182) Data :#6 Date: 2010/9/24 Time: PM 04:42:04



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4182

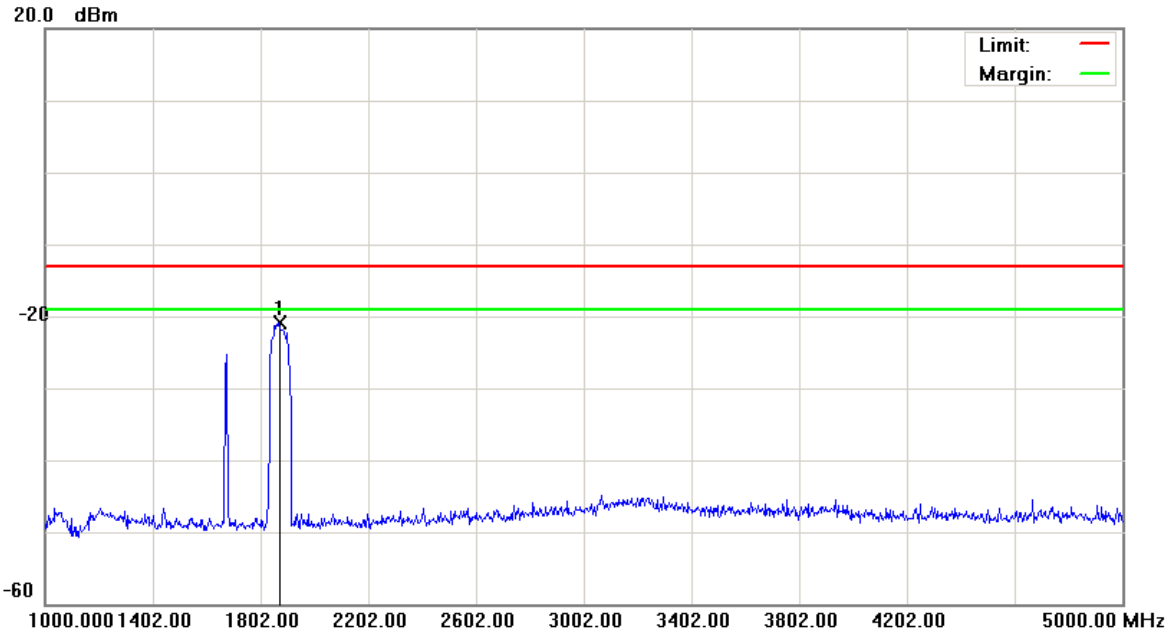
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		54.7500	-52.97	13.85	-39.12	-13.00	-26.12	peak			
2	*	835.6500	10.82	3.95	14.77	-13.00	27.77	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4182) Data :#7 Date: 2010/9/24 Time: PM 04:48:35



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4182

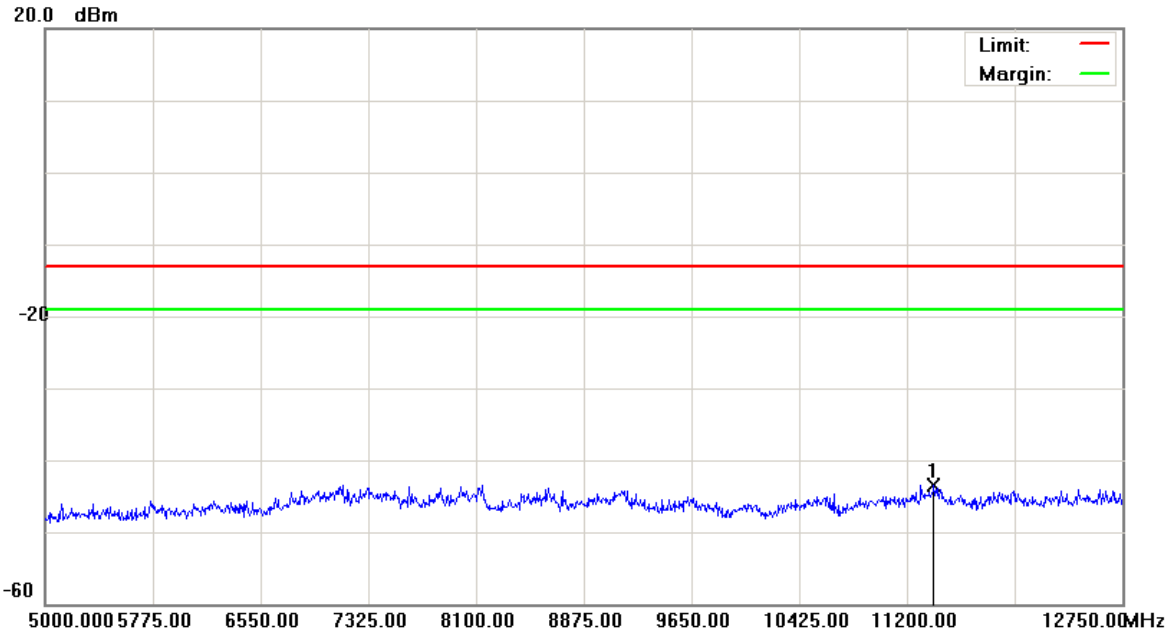
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1870.000	-25.33	4.34	-20.99	-13.00	-7.99	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4182) Data :#8 Date: 2010/9/24 Time: PM 04:48:58



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4182

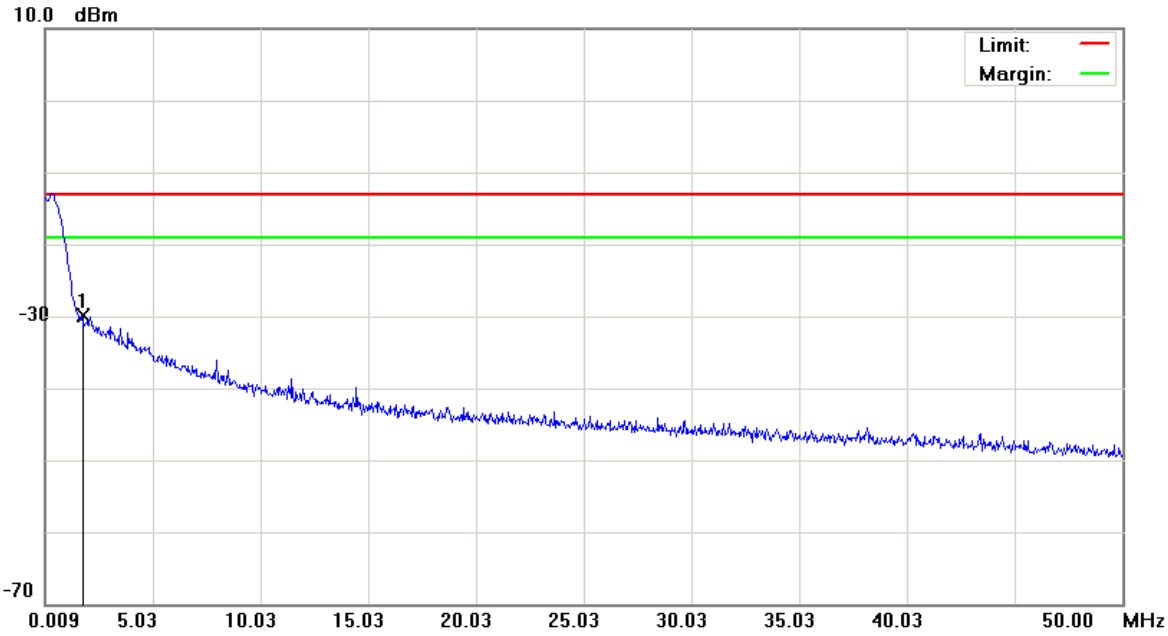
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	11393.750	-48.97	5.53	-43.44	-13.00	-30.44	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4233) Data :#5 Date: 2010/9/24 Time: PM 04:43:37



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4233

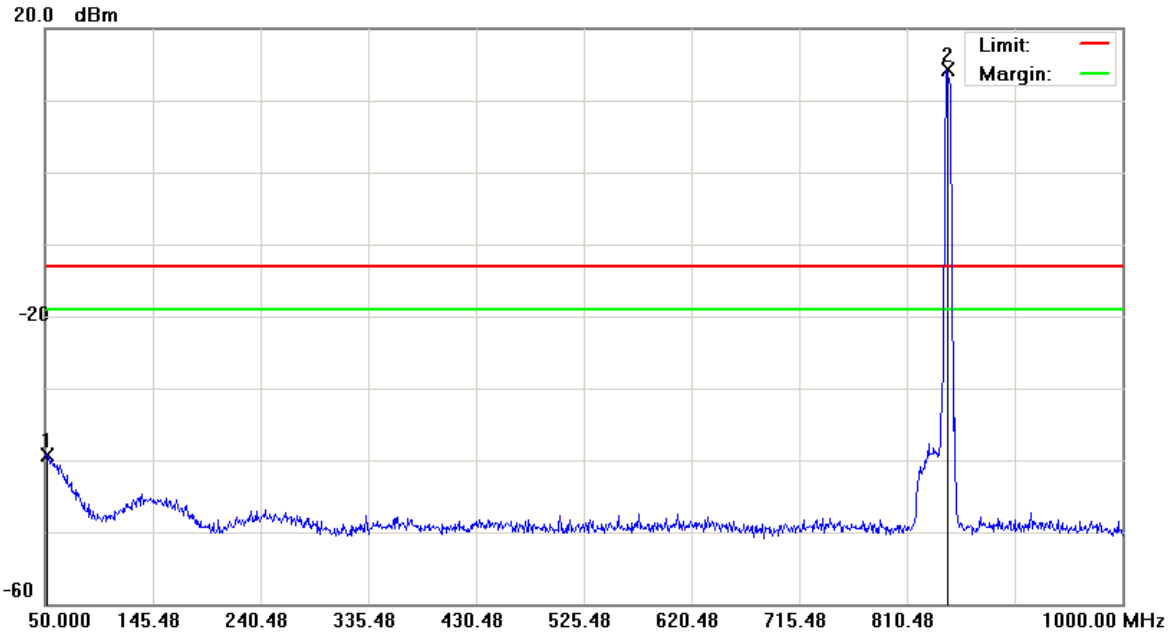
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.7337	-61.01	31.02	-29.99	-13.00	-16.99	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4233) Data :#6 Date: 2010/9/24 Time: PM 04:44:01



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4233

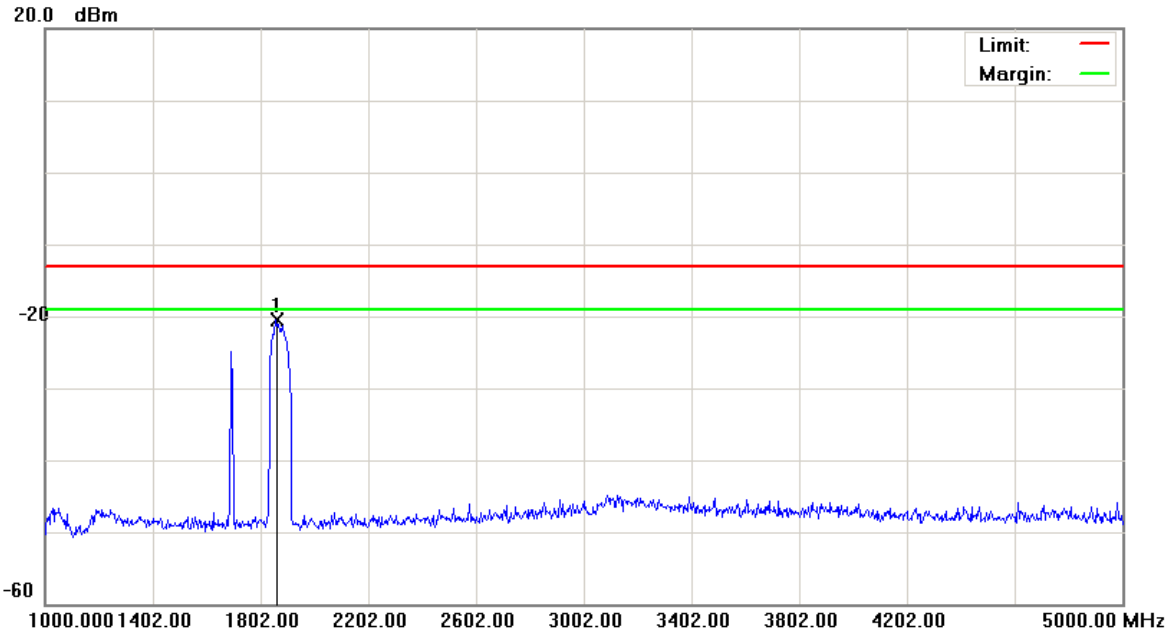
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		51.9000	-53.56	14.36	-39.20	-13.00	-26.20	peak			
2	*	845.6250	10.38	3.99	14.37	-13.00	27.37	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4233) Data :#7 Date: 2010/9/24 Time: PM 04:45:02



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4233

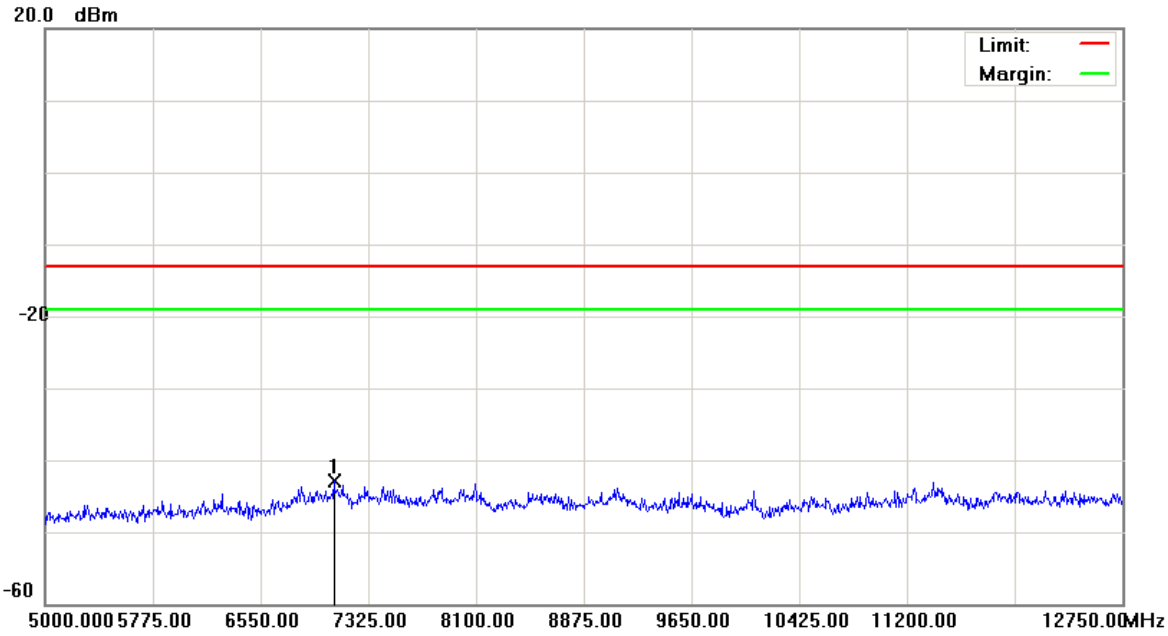
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1858.000	-24.91	4.34	-20.57	-13.00	-7.57	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4233) Data :#8 Date: 2010/9/24 Time: PM 04:45:25



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 3
Note: CH4233

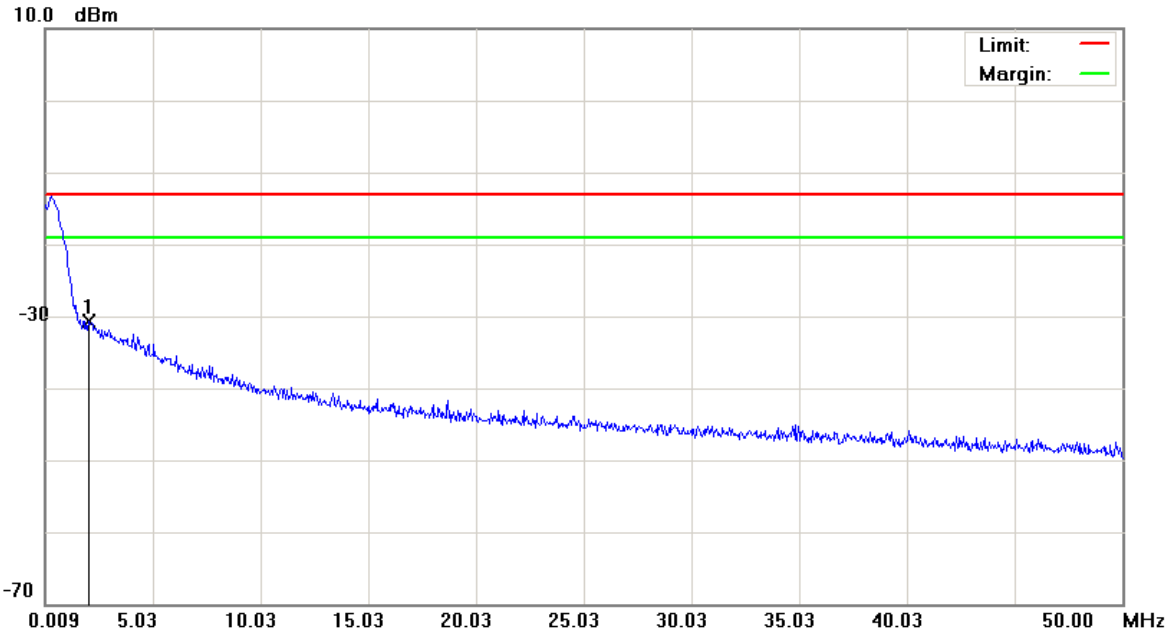
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7080.875	-47.89	4.98	-42.91	-13.00	-29.91	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4357) Data :#1 Date: 2010/9/24 Time: PM 05:59:04



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4357

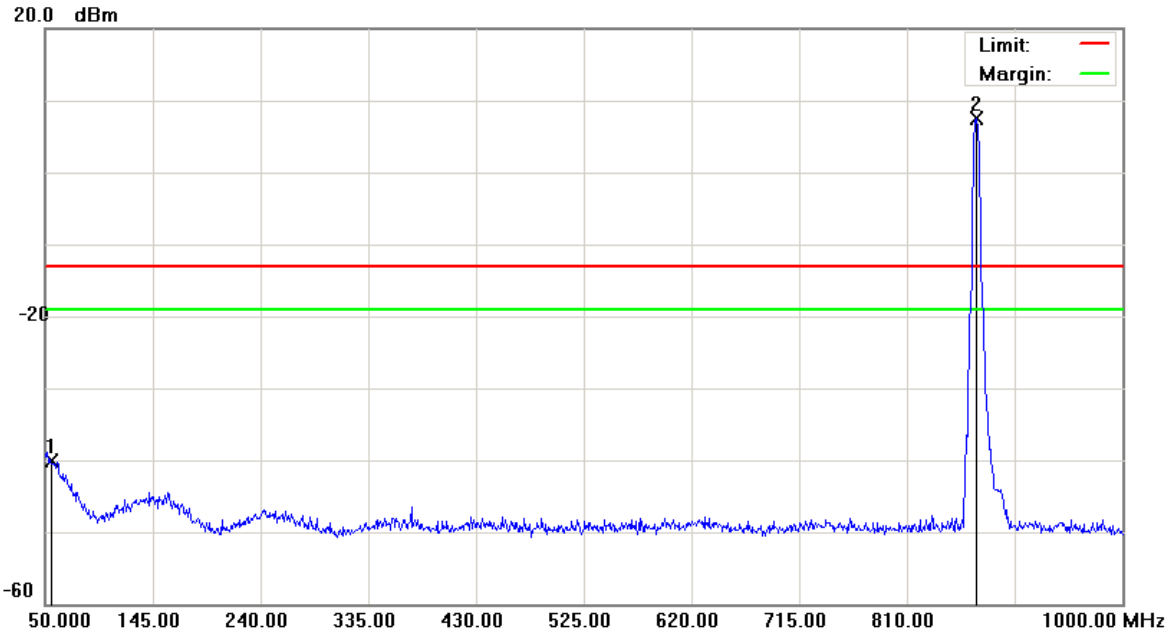
Polarization: ***Conducted po***
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2.0085	-61.99	31.37	-30.62	-13.00	-17.62	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4357) Data :#2 Date: 2010/9/24 Time: PM 05:59:28



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4357

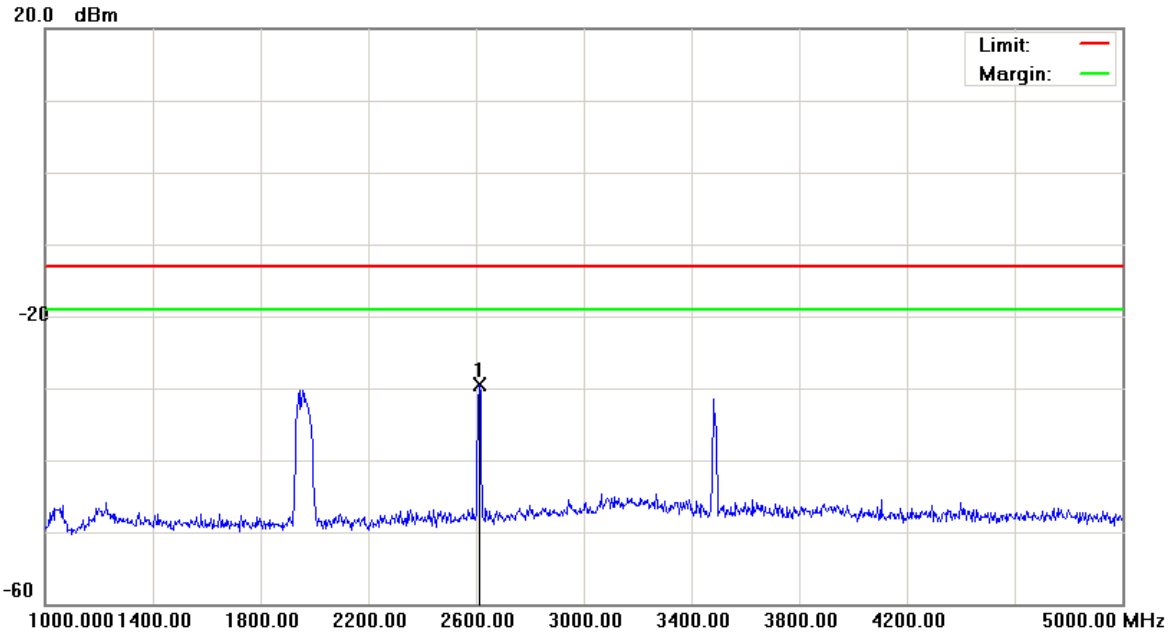
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		55.2250	-53.82	13.77	-40.05	-13.00	-27.05	peak			
2	*	871.2750	3.56	3.89	7.45	-13.00	20.45	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4357) Data :#3 Date: 2010/9/24 Time: PM 06:00:27



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4357

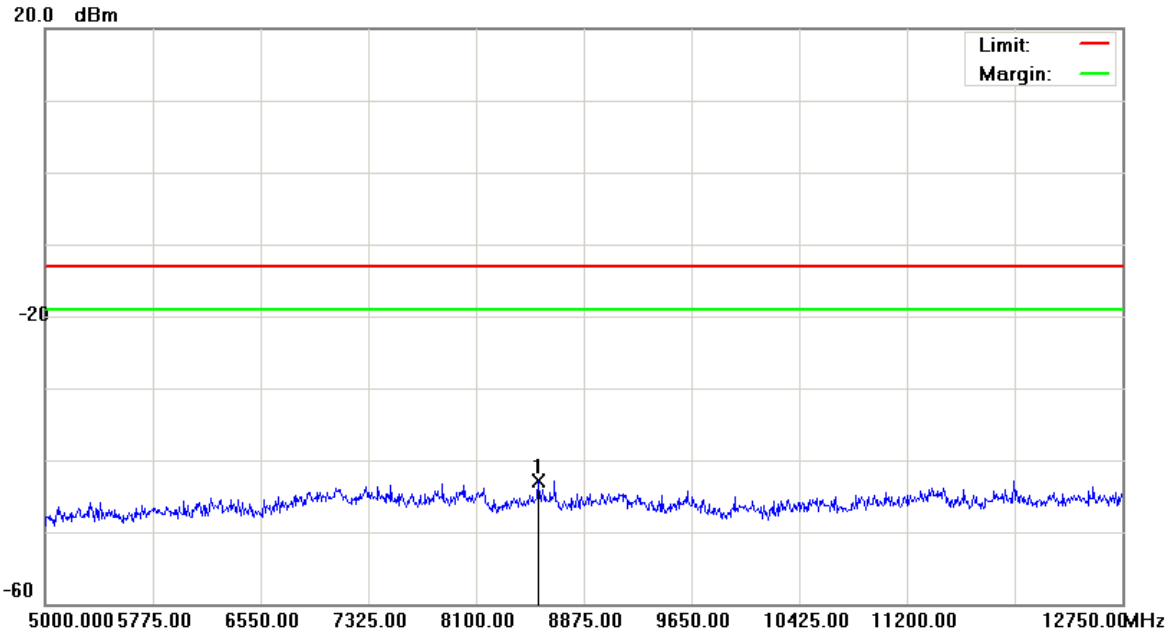
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2612.000	-33.95	4.53	-29.42	-13.00	-16.42	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4357) Data :#4 Date: 2010/9/24 Time: PM 06:00:50



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4357

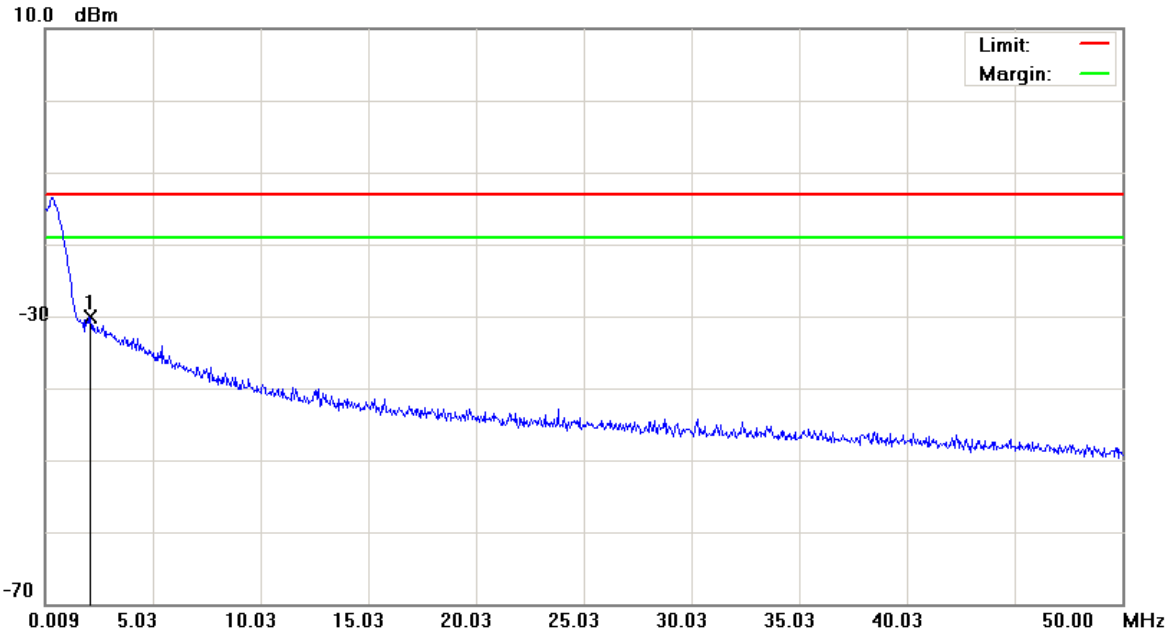
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	8549.500	-48.72	5.77	-42.95	-13.00	-29.95	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4408) Data :#1 Date: 2010/9/24 Time: PM 05:51:17



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4357

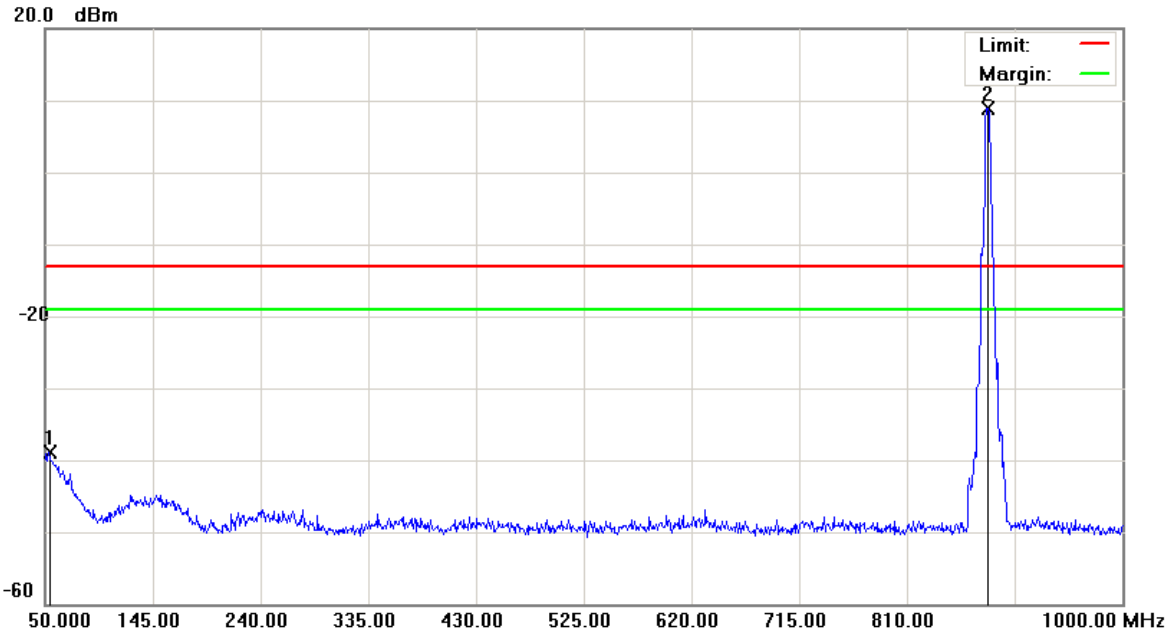
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2.0836	-61.54	31.50	-30.04	-13.00	-17.04	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4408) Data :#2 Date: 2010/9/24 Time: PM 05:51:41



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4408

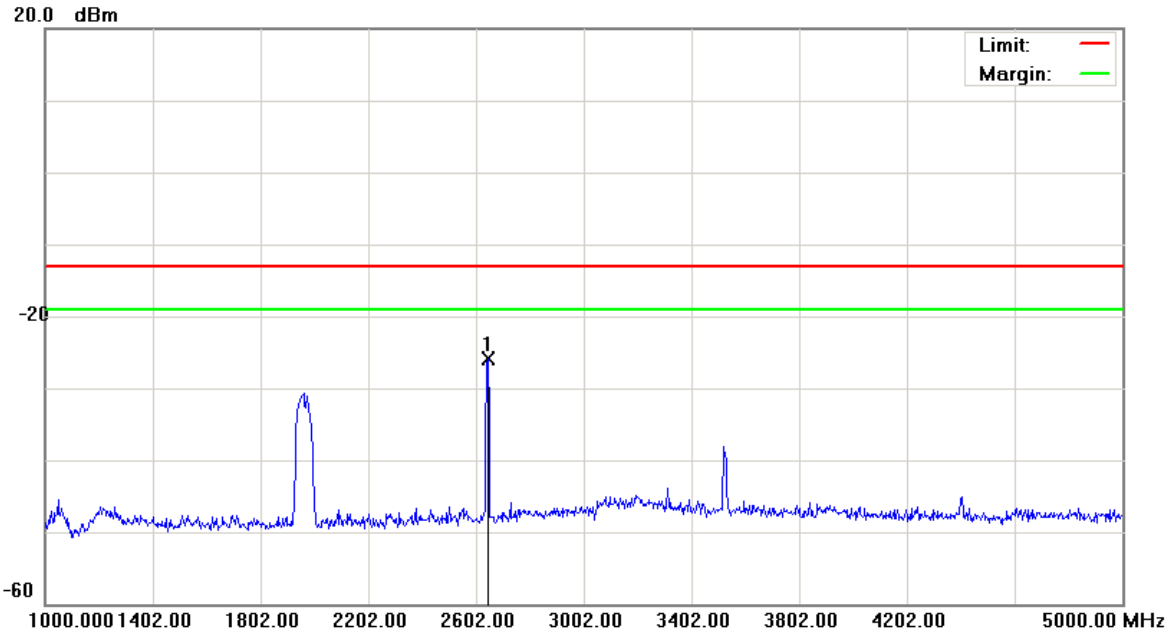
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		53.3250	-53.06	14.10	-38.96	-13.00	-25.96	peak			
2	*	880.7750	4.70	4.26	8.96	-13.00	21.96	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4408) Data :#3 Date: 2010/9/24 Time: PM 05:56:16



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4408

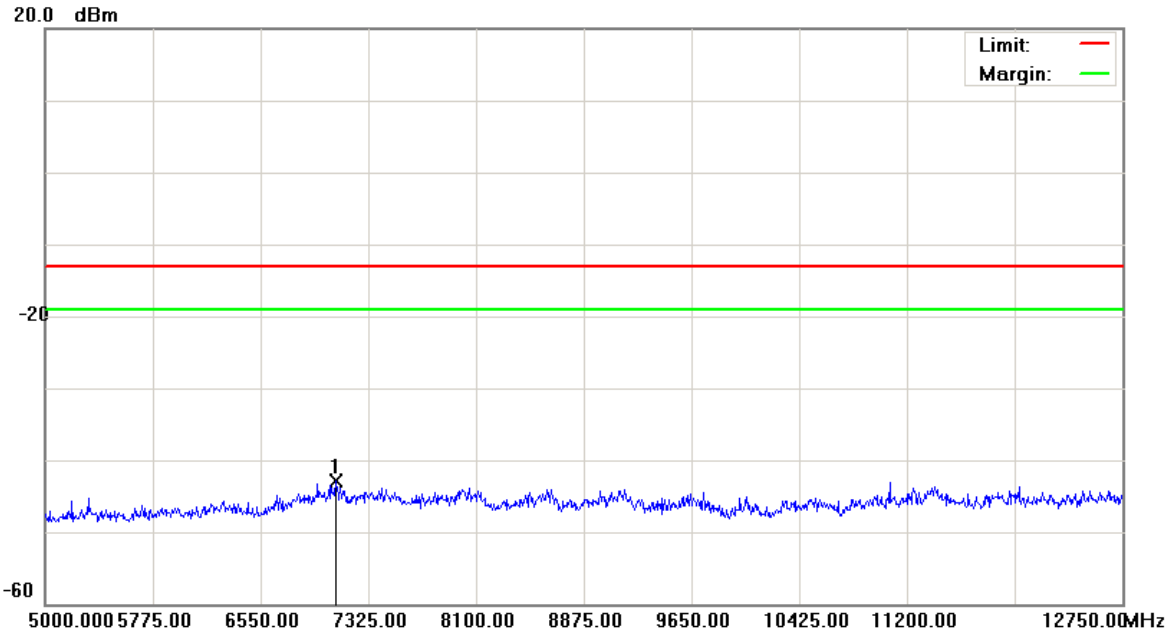
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	2644.000	-30.40	4.44	-25.96	-13.00	-12.96	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4408) Data :#4 Date: 2010/9/24 Time: PM 05:56:39



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4408

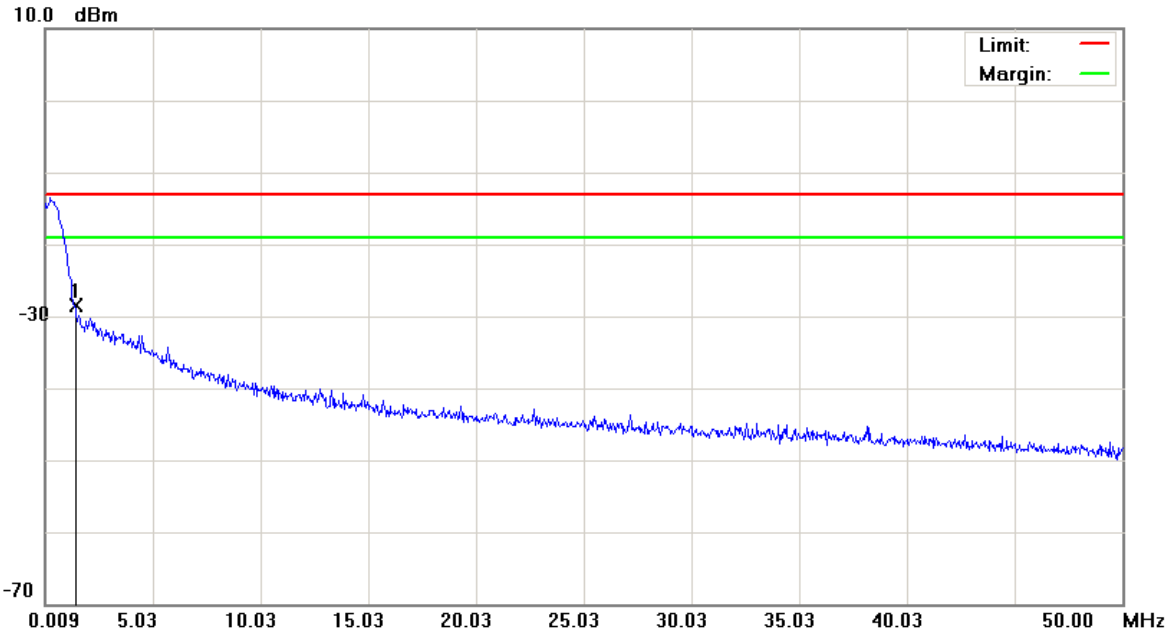
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	7092.500	-47.86	5.05	-42.81	-13.00	-29.81	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4458) Data :#1 Date: 2010/9/24 Time: PM 06:02:18



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4458

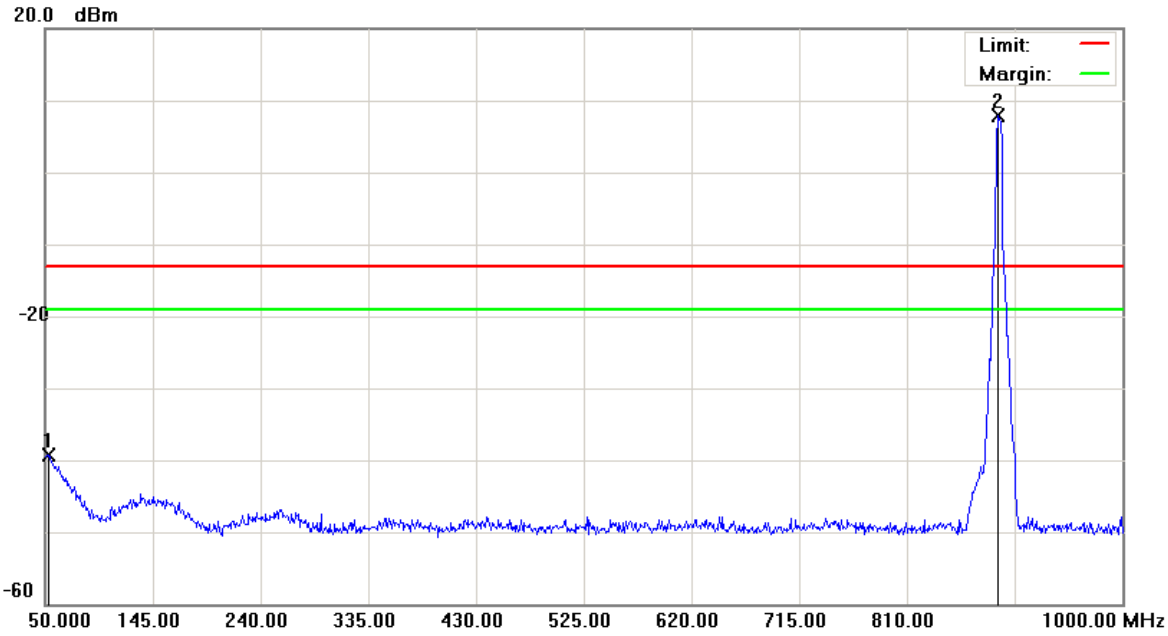
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1.3837	-59.92	31.37	-28.55	-13.00	-15.55	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4458) Data :#2 Date: 2010/9/24 Time: PM 06:02:43



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4458

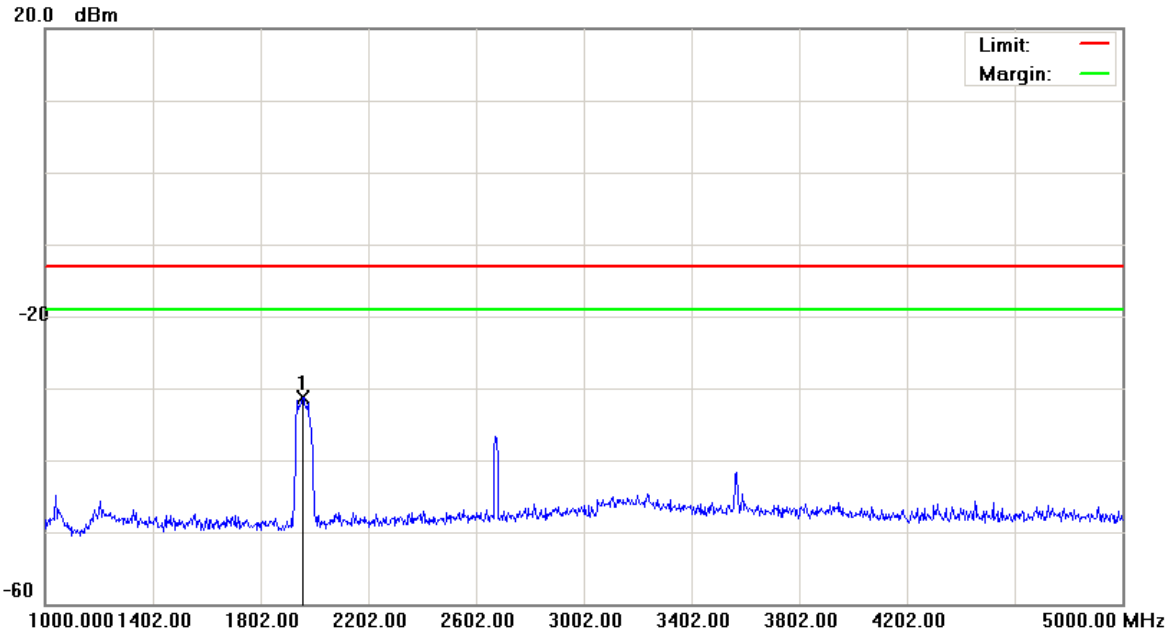
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1		52.8500	-53.49	14.19	-39.30	-13.00	-26.30	peak			
2	*	890.7500	3.92	3.97	7.89	-13.00	20.89	peak			TX

*:Maximum data x:Over limit !:over margin

File :IVWA819(4458) Data :#3 Date: 2010/9/24 Time: PM 06:03:43



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4458

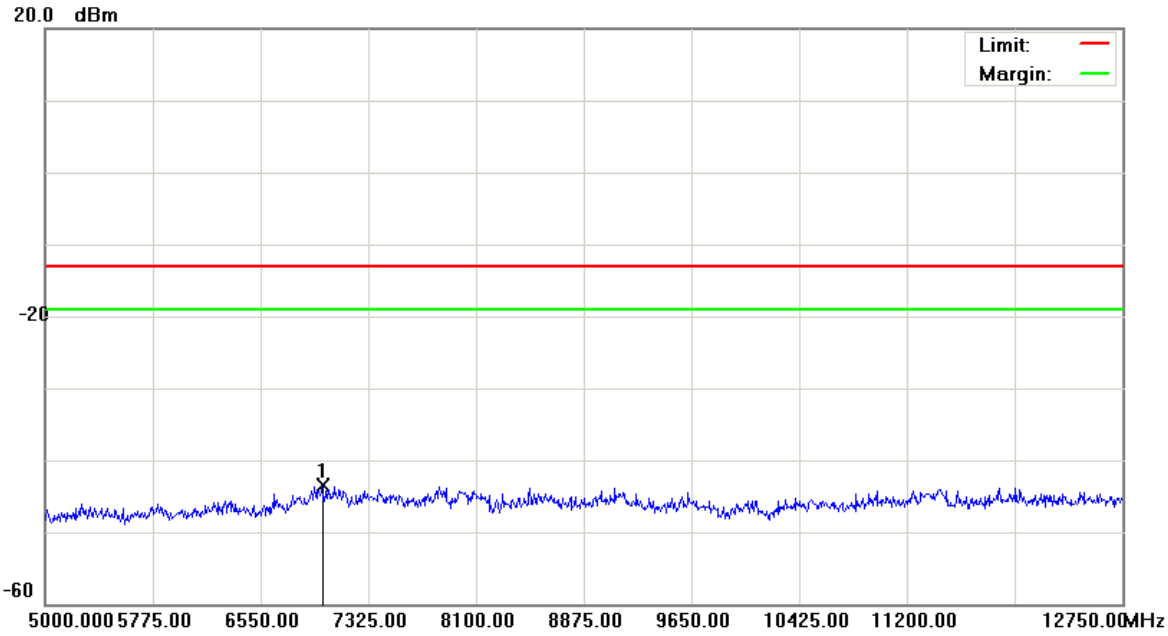
Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	1956.000	-35.61	4.34	-31.27	-13.00	-18.27	peak			

*:Maximum data x:Over limit !:over margin

File :IVWA819(4458) Data :#4 Date: 2010/9/24 Time: PM 06:04:06



Site: : RF Conducted
Limit: FCC Part 22 conducted(9k-12.75G)
EUT: Wireless Inner Structure
M/N: Sphere
Mode: 4
Note: CH4458

Polarization: *Conducted po*
Power: AC 120V/60Hz
Distance:

Temperature: 26 ℃
Humidity: 55 %
RBW: 1000 MHz VBW: 1000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBm	dB	dBm	dBm	dB	Detector	cm	degree	Comment
1	*	6995.625	-48.52	4.93	-43.59	-13.00	-30.59	peak			

*:Maximum data x:Over limit !:over margin

5 Field Strength of Spurious Radiation Test

5.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

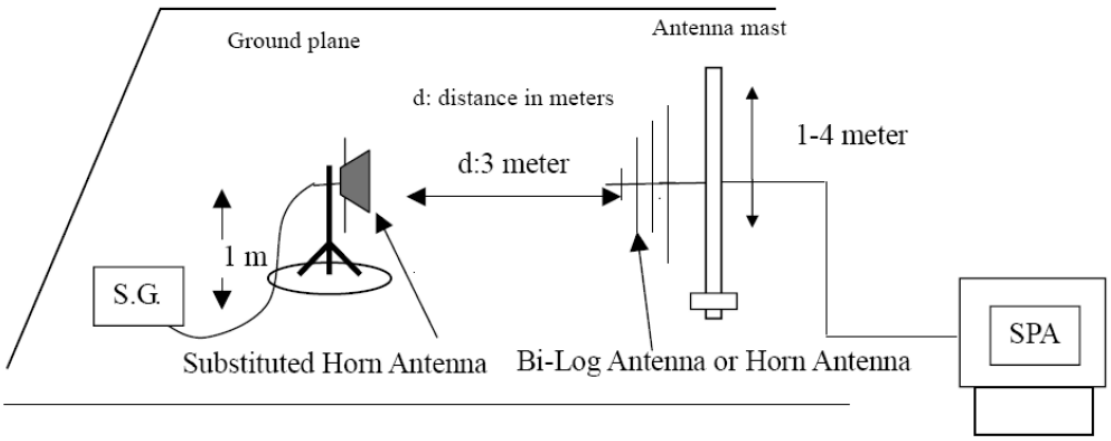
5.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/07/2009	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	02/24/2010	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2010	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2010	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/02/2010	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/29/2010	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/29/2010	(1)
Test Site	ATL	TE01	888001	07/30/2010	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

5.3. Setup



5.4. Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

Units	dBm
Resolution Bandwidth	1 MHz
Video Bandwidth	Auto
Sweep Time	Auto

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in **lie-down position (X axis)** and the worst case was recorded.

5.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

5.6. Test Result

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2010/09/24
Channel:	Low	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-56.81	39.31	-17.50	-13.00	-4.50	peak	H
2	91.11	-52.17	13.15	-39.02	-13.00	-26.02	peak	H
3	335.55	-54.59	7.02	-47.57	-13.00	-34.57	peak	H
4	486.87	-55.60	22.12	-33.48	-13.00	-20.48	peak	H
5	916.58	-55.81	31.47	-24.34	-13.00	-11.34	peak	H
6	969.93	-54.97	28.84	-26.13	-13.00	-13.13	peak	H
7	1154.00	-41.24	11.28	-29.96	-13.00	-16.96	peak	H
8	2782.00	-40.52	12.97	-27.55	-13.00	-14.55	peak	H
9	4020.00	-40.18	16.47	-23.71	-13.00	-10.71	peak	H
1	38.73	-46.31	17.22	-29.09	-13.00	-16.09	peak	V
2	51.34	-53.67	22.43	-31.24	-13.00	-18.24	peak	V
3	107.60	-50.36	9.75	-40.61	-13.00	-27.61	peak	V
4	271.53	-54.93	12.89	-42.04	-13.00	-29.04	peak	V
5	743.92	-55.07	22.89	-32.18	-13.00	-19.18	peak	V
6	951.50	-54.63	24.98	-29.65	-13.00	-16.65	peak	V
7	1382.00	-40.89	4.83	-36.06	-13.00	-23.06	peak	V
8	2520.00	-40.08	12.30	-27.78	-13.00	-14.78	peak	V
9	4050.00	-39.84	20.74	-19.10	-13.00	-6.10	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2010/09/24
Channel:	Middle	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	50.37	-57.01	39.23	-17.78	-13.00	-4.78	peak	H
2	90.14	-52.70	12.97	-39.73	-13.00	-26.73	peak	H
3	343.31	-54.94	7.54	-47.40	-13.00	-34.40	peak	H
4	496.57	-55.05	21.85	-33.20	-13.00	-20.20	peak	H
5	758.47	-54.79	18.46	-36.33	-13.00	-23.33	peak	H
6	899.12	-55.63	31.77	-23.86	-13.00	-10.86	peak	H
7	1260.00	-40.25	10.99	-29.26	-13.00	-16.26	peak	H
8	2786.00	-40.01	12.99	-27.02	-13.00	-14.02	peak	H
9	3790.00	-38.39	15.96	-22.43	-13.00	-9.43	peak	H
1	37.76	-45.74	16.84	-28.90	-13.00	-15.90	peak	V
2	51.34	-53.95	22.43	-31.52	-13.00	-18.52	peak	V
3	102.75	-51.58	10.78	-40.80	-13.00	-27.80	peak	V
4	296.75	-54.74	12.52	-42.22	-13.00	-29.22	peak	V
5	679.90	-54.70	21.89	-32.81	-13.00	-19.81	peak	V
6	957.32	-55.10	25.15	-29.95	-13.00	-16.95	peak	V
7	1322.00	-41.16	4.45	-36.71	-13.00	-23.71	peak	V
8	2704.00	-40.26	13.80	-26.46	-13.00	-13.46	peak	V
9	3850.00	-39.42	20.20	-19.22	-13.00	-6.22	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 1	Date:	2010/09/24
Channel:	High	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-57.15	39.31	-17.84	-13.00	-4.84	peak	H
2	90.14	-51.81	12.97	-38.84	-13.00	-25.84	peak	H
3	349.13	-55.36	7.38	-47.98	-13.00	-34.98	peak	H
4	498.51	-55.17	21.79	-33.38	-13.00	-20.38	peak	H
5	790.48	-54.96	19.85	-35.11	-13.00	-22.11	peak	H
6	914.64	-55.40	31.51	-23.89	-13.00	-10.89	peak	H
7	1484.00	-40.60	10.40	-30.20	-13.00	-17.20	peak	H
8	2768.00	-40.80	12.93	-27.87	-13.00	-14.87	peak	H
9	3860.00	-38.62	16.13	-22.49	-13.00	-9.49	peak	H
1	37.76	-45.62	16.84	-28.78	-13.00	-15.78	peak	V
2	52.31	-52.25	21.28	-30.97	-13.00	-17.97	peak	V
3	102.75	-51.99	10.78	-41.21	-13.00	-28.21	peak	V
4	283.17	-54.80	13.32	-41.48	-13.00	-28.48	peak	V
5	744.89	-55.26	22.88	-32.38	-13.00	-19.38	peak	V
6	956.35	-54.99	25.12	-29.87	-13.00	-16.87	peak	V
7	1236.00	-41.51	3.92	-37.59	-13.00	-24.59	peak	V
8	2500.00	-39.78	12.13	-27.65	-13.00	-14.65	peak	V
9	3830.00	-38.90	20.16	-18.74	-13.00	-5.74	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2010/09/24
Channel:	Low	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-56.70	39.31	-17.39	-13.00	-4.39	peak	H
2	91.11	-52.96	13.15	-39.81	-13.00	-26.81	peak	H
3	338.46	-54.93	7.41	-47.52	-13.00	-34.52	peak	H
4	497.54	-53.65	21.83	-31.82	-13.00	-18.82	peak	H
5	743.92	-54.15	17.93	-36.22	-13.00	-23.22	peak	H
6	898.15	-54.98	31.66	-23.32	-13.00	-10.32	peak	H
7	1306.00	-40.62	10.88	-29.74	-13.00	-16.74	peak	H
8	2880.00	-39.97	13.31	-26.66	-13.00	-13.66	peak	H
9	3860.00	-39.40	16.13	-23.27	-13.00	-10.27	peak	H
1	37.76	-46.22	16.84	-29.38	-13.00	-16.38	peak	V
2	104.69	-51.10	10.37	-40.73	-13.00	-27.73	peak	V
3	276.38	-54.62	13.24	-41.38	-13.00	-28.38	peak	V
4	341.37	-54.89	12.65	-42.24	-13.00	-29.24	peak	V
5	783.69	-54.22	22.08	-32.14	-13.00	-19.14	peak	V
6	981.57	-55.41	26.02	-29.39	-13.00	-16.39	peak	V
7	1342.00	-41.28	4.59	-36.69	-13.00	-23.69	peak	V
8	2782.00	-40.44	14.43	-26.01	-13.00	-13.01	peak	V
9	3840.00	-38.38	20.19	-18.19	-13.00	-5.19	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2010/09/24
Channel:	Middle	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-56.60	39.31	-17.29	-13.00	-4.29	peak	H
2	91.11	-52.84	13.15	-39.69	-13.00	-26.69	peak	H
3	190.05	-53.71	-1.15	-54.86	-13.00	-41.86	peak	H
4	480.08	-55.71	22.31	-33.40	-13.00	-20.40	peak	H
5	836.07	-55.41	24.60	-30.81	-13.00	-17.81	peak	H
6	897.18	-55.26	31.54	-23.72	-13.00	-10.72	peak	H
7	1224.00	-41.54	11.09	-30.45	-13.00	-17.45	peak	H
8	2734.00	-40.04	12.81	-27.23	-13.00	-14.23	peak	H
9	3920.00	-38.15	16.26	-21.89	-13.00	-8.89	peak	H
1	37.76	-45.05	16.84	-28.21	-13.00	-15.21	peak	V
2	52.31	-52.18	21.28	-30.90	-13.00	-17.90	peak	V
3	104.69	-51.05	10.37	-40.68	-13.00	-27.68	peak	V
4	268.62	-54.77	12.67	-42.10	-13.00	-29.10	peak	V
5	738.10	-54.22	22.83	-31.39	-13.00	-18.39	peak	V
6	997.09	-54.92	26.70	-28.22	-13.00	-15.22	peak	V
7	1414.00	-40.86	5.02	-35.84	-13.00	-22.84	peak	V
8	2708.00	-39.93	13.83	-26.10	-13.00	-13.10	peak	V
9	3910.00	-39.43	20.35	-19.08	-13.00	-6.08	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 2	Date:	2010/09/24
Channel:	High	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-57.03	39.31	-17.72	-13.00	-4.72	peak	H
2	90.14	-52.17	12.97	-39.20	-13.00	-26.20	peak	H
3	349.13	-55.72	7.38	-48.34	-13.00	-35.34	peak	H
4	491.72	-55.41	21.98	-33.43	-13.00	-20.43	peak	H
5	843.83	-55.92	25.60	-30.32	-13.00	-17.32	peak	H
6	919.49	-55.12	31.41	-23.71	-13.00	-10.71	peak	H
7	1308.00	-41.51	10.87	-30.64	-13.00	-17.64	peak	H
8	2758.00	-40.16	12.89	-27.27	-13.00	-14.27	peak	H
9	3840.00	-39.42	16.09	-23.33	-13.00	-10.33	peak	H
1	37.76	-45.67	16.84	-28.83	-13.00	-15.83	peak	V
2	52.31	-53.03	21.28	-31.75	-13.00	-18.75	peak	V
3	101.78	-52.03	10.99	-41.04	-13.00	-28.04	peak	V
4	275.41	-55.26	13.17	-42.09	-13.00	-29.09	peak	V
5	738.10	-54.60	22.83	-31.77	-13.00	-18.77	peak	V
6	960.23	-54.79	25.23	-29.56	-13.00	-16.56	peak	V
7	1438.00	-41.19	5.17	-36.02	-13.00	-23.02	peak	V
8	2766.00	-40.70	14.30	-26.40	-13.00	-13.40	peak	V
9	3890.00	-38.78	20.30	-18.48	-13.00	-5.48	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2010/09/24
Channel:	Low	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	50.37	-56.60	39.23	-17.37	-13.00	-4.37	peak	H
2	97.90	-51.71	14.43	-37.28	-13.00	-24.28	peak	H
3	339.43	-55.69	7.54	-48.15	-13.00	-35.15	peak	H
4	489.78	-54.60	22.04	-32.56	-13.00	-19.56	peak	H
5	760.41	-54.55	18.53	-36.02	-13.00	-23.02	peak	H
6	918.52	-55.48	31.43	-24.05	-13.00	-11.05	peak	H
7	1402.00	-40.97	10.62	-30.35	-13.00	-17.35	peak	H
8	2826.00	-39.85	13.12	-26.73	-13.00	-13.73	peak	H
9	3820.00	-39.19	16.03	-23.16	-13.00	-10.16	peak	H
1	50.37	-53.73	23.59	-30.14	-13.00	-17.14	peak	V
2	86.26	-43.64	2.66	-40.98	-13.00	-27.98	peak	V
3	279.29	-56.33	13.46	-42.87	-13.00	-29.87	peak	V
4	630.43	-54.94	19.74	-35.20	-13.00	-22.20	peak	V
5	740.04	-50.16	22.91	-27.25	-13.00	-14.25	peak	V
6	911.73	-52.79	24.01	-28.78	-13.00	-15.78	peak	V
7	1334.00	-41.07	4.53	-36.54	-13.00	-23.54	peak	V
8	2736.00	-40.20	14.06	-26.14	-13.00	-13.14	peak	V
9	3910.00	-39.18	20.35	-18.83	-13.00	-5.83	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2010/09/24
Channel:	Middle	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	50.37	-56.70	39.23	-17.47	-13.00	-4.47	peak	H
2	95.96	-51.44	14.07	-37.37	-13.00	-24.37	peak	H
3	347.19	-55.01	7.44	-47.57	-13.00	-34.57	peak	H
4	484.93	-55.35	22.18	-33.17	-13.00	-20.17	peak	H
5	787.57	-55.45	19.74	-35.71	-13.00	-22.71	peak	H
6	905.91	-55.27	31.73	-23.54	-13.00	-10.54	peak	H
7	1270.00	-40.75	10.97	-29.78	-13.00	-16.78	peak	H
8	2806.00	-40.51	13.06	-27.45	-13.00	-14.45	peak	H
9	3960.00	-39.01	16.36	-22.65	-13.00	-9.65	peak	H
1	50.37	-52.62	23.59	-29.03	-13.00	-16.03	peak	V
2	85.29	-42.98	1.92	-41.06	-13.00	-28.06	peak	V
3	297.72	-54.72	12.47	-42.25	-13.00	-29.25	peak	V
4	625.58	-54.75	19.54	-35.21	-13.00	-22.21	peak	V
5	751.68	-50.54	22.85	-27.69	-13.00	-14.69	peak	V
6	991.27	-55.24	26.44	-28.80	-13.00	-15.80	peak	V
7	1272.00	-41.00	4.15	-36.85	-13.00	-23.85	peak	V
8	2800.00	-40.94	14.59	-26.35	-13.00	-13.35	peak	V
9	3870.00	-39.19	20.25	-18.94	-13.00	-5.94	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 3	Date:	2010/09/24
Channel:	High	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-57.27	39.31	-17.96	-13.00	-4.96	peak	H
2	97.90	-50.88	14.43	-36.45	-13.00	-23.45	peak	H
3	350.10	-55.60	7.36	-48.24	-13.00	-35.24	peak	H
4	486.87	-54.73	22.12	-32.61	-13.00	-19.61	peak	H
5	774.96	-55.38	19.19	-36.19	-13.00	-23.19	peak	H
6	908.82	-55.25	31.65	-23.60	-13.00	-10.60	peak	H
7	1164.00	-40.46	11.25	-29.21	-13.00	-16.21	peak	H
8	2822.00	-40.61	13.11	-27.50	-13.00	-14.50	peak	H
9	4020.00	-39.71	16.47	-23.24	-13.00	-10.24	peak	H
1	51.34	-52.23	22.43	-29.80	-13.00	-16.80	peak	V
2	85.29	-43.18	1.92	-41.26	-13.00	-28.26	peak	V
3	269.59	-54.64	12.74	-41.90	-13.00	-28.90	peak	V
4	338.46	-54.98	12.53	-42.45	-13.00	-29.45	peak	V
5	763.32	-51.88	22.69	-29.19	-13.00	-16.19	peak	V
6	930.16	-52.64	24.43	-28.21	-13.00	-15.21	peak	V
7	1496.00	-41.43	5.52	-35.91	-13.00	-22.91	peak	V
8	2724.00	-40.36	13.96	-26.40	-13.00	-13.40	peak	V
9	3740.00	-38.83	19.92	-18.91	-13.00	-5.91	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2010/09/24
Channel:	Low	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-57.07	39.31	-17.76	-13.00	-4.76	peak	H
2	91.11	-52.34	13.15	-39.19	-13.00	-26.19	peak	H
3	344.28	-56.10	7.50	-48.60	-13.00	-35.60	peak	H
4	480.08	-55.31	22.31	-33.00	-13.00	-20.00	peak	H
5	757.50	-54.41	18.42	-35.99	-13.00	-22.99	peak	H
6	912.70	-55.36	31.56	-23.80	-13.00	-10.80	peak	H
7	1344.00	-40.51	10.78	-29.73	-13.00	-16.73	peak	H
8	2584.00	-40.00	12.28	-27.72	-13.00	-14.72	peak	H
9	3990.00	-39.29	16.43	-22.86	-13.00	-9.86	peak	H
1	38.73	-46.13	17.22	-28.91	-13.00	-15.91	peak	V
2	105.66	-50.54	10.16	-40.38	-13.00	-27.38	peak	V
3	285.11	-55.70	13.21	-42.49	-13.00	-29.49	peak	V
4	614.91	-55.30	18.96	-36.34	-13.00	-23.34	peak	V
5	743.92	-53.86	22.89	-30.97	-13.00	-17.97	peak	V
6	999.03	-55.32	26.79	-28.53	-13.00	-15.53	peak	V
7	1422.00	-40.87	5.07	-35.80	-13.00	-22.80	peak	V
8	2738.00	-39.40	14.07	-25.33	-13.00	-12.33	peak	V
9	3850.00	-38.28	20.20	-18.08	-13.00	-5.08	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2010/09/24
Channel:	Middle	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	50.37	-57.08	39.23	-17.85	-13.00	-4.85	peak	H
2	92.08	-51.90	13.33	-38.57	-13.00	-25.57	peak	H
3	342.34	-55.47	7.56	-47.91	-13.00	-34.91	peak	H
4	484.93	-55.77	22.18	-33.59	-13.00	-20.59	peak	H
5	764.29	-54.55	18.72	-35.83	-13.00	-22.83	peak	H
6	932.10	-55.12	30.83	-24.29	-13.00	-11.29	peak	H
7	1264.00	-40.93	10.99	-29.94	-13.00	-16.94	peak	H
8	2744.00	-40.08	12.84	-27.24	-13.00	-14.24	peak	H
9	3840.00	-38.96	16.09	-22.87	-13.00	-9.87	peak	H
1	36.79	-44.55	16.44	-28.11	-13.00	-15.11	peak	V
2	105.66	-51.05	10.16	-40.89	-13.00	-27.89	peak	V
3	287.05	-55.18	13.10	-42.08	-13.00	-29.08	peak	V
4	643.04	-54.22	20.24	-33.98	-13.00	-20.98	peak	V
5	843.83	-54.64	22.44	-32.20	-13.00	-19.20	peak	V
6	987.39	-55.16	26.28	-28.88	-13.00	-15.88	peak	V
7	1468.00	-41.11	5.36	-35.75	-13.00	-22.75	peak	V
8	2716.00	-40.28	13.89	-26.39	-13.00	-13.39	peak	V
9	3850.00	-38.17	20.20	-17.97	-13.00	-4.97	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Sphere	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Mode:	Mode 4	Date:	2010/09/24
Channel:	High	Test By:	Gary Wu

No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	49.40	-57.49	39.31	-18.18	-13.00	-5.18	peak	H
2	91.11	-52.51	13.15	-39.36	-13.00	-26.36	peak	H
3	341.37	-55.76	7.59	-48.17	-13.00	-35.17	peak	H
4	482.99	-54.41	22.22	-32.19	-13.00	-19.19	peak	H
5	798.24	-54.03	20.18	-33.85	-13.00	-20.85	peak	H
6	920.46	-55.59	31.37	-24.22	-13.00	-11.22	peak	H
7	1178.00	-39.70	11.22	-28.48	-13.00	-15.48	peak	H
8	2732.00	-39.79	12.79	-27.00	-13.00	-14.00	peak	H
9	3880.00	-39.29	16.18	-23.11	-13.00	-10.11	peak	H
1	37.76	-45.62	16.84	-28.78	-13.00	-15.78	peak	V
2	100.81	-52.12	11.18	-40.94	-13.00	-27.94	peak	V
3	327.79	-53.83	11.43	-42.40	-13.00	-29.40	peak	V
4	650.80	-54.67	20.55	-34.12	-13.00	-21.12	peak	V
5	735.19	-53.91	22.70	-31.21	-13.00	-18.21	peak	V
6	976.72	-55.50	25.83	-29.67	-13.00	-16.67	peak	V
7	1318.00	-40.82	4.42	-36.40	-13.00	-23.40	peak	V
8	2802.00	-39.46	14.61	-24.85	-13.00	-11.85	peak	V
9	3840.00	-38.55	20.19	-18.36	-13.00	-5.36	peak	V

6 Frequency Stability (Temperature Variation) Test

6.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

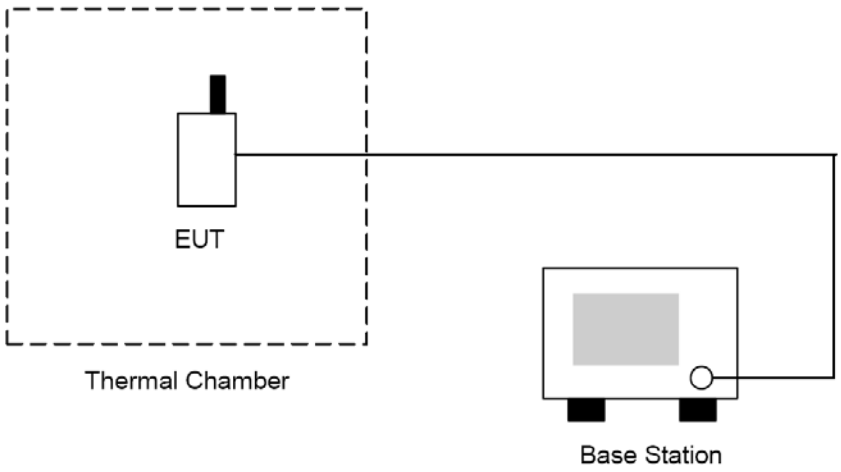
6.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2009	(2)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30℃ and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10℃ steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

6.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is ± 10Hz.

6.6. Test Result

Model Number	Sphere			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 1			
Date of Test	09/24/2010		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	21.36	0.011	±2.5	Pass
-20	25.89	0.014	±2.5	Pass
-10	37.25	0.020	±2.5	Pass
0	27.68	0.015	±2.5	Pass
10	31.26	0.017	±2.5	Pass
20	33.14	0.018	±2.5	Pass
30	26.54	0.014	±2.5	Pass
40	37.56	0.020	±2.5	Pass
50	38.12	0.020	±2.5	Pass

Model Number	Sphere			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 2			
Date of Test	09/24/2010		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	20.97	0.011	±2.5	Pass
-20	21.64	0.011	±2.5	Pass
-10	31.23	0.016	±2.5	Pass
0	31.44	0.016	±2.5	Pass
10	33.53	0.017	±2.5	Pass
20	30.36	0.015	±2.5	Pass
30	28.34	0.014	±2.5	Pass
40	27.36	0.014	±2.5	Pass
50	24.69	0.013	±2.5	Pass

Model Number	Sphere			
Test Item	Frequency Stability (Temperature Variation)			
Date of Test	09/24/2010		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	23.56	0.028	±2.5	Pass
-20	24.85	0.030	±2.5	Pass
-10	23.65	0.028	±2.5	Pass
0	24.32	0.029	±2.5	Pass
10	25.14	0.030	±2.5	Pass
20	27.48	0.033	±2.5	Pass
30	30.26	0.036	±2.5	Pass
40	35.29	0.042	±2.5	Pass
50	33.25	0.040	±2.5	Pass

Model Number	Sphere			
Test Item	Frequency Stability (Temperature Variation)			
Test Mode	Mode 4			
Date of Test	09/24/2010		Test Site	TE02
Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
-30	23.46	0.027	±2.5	Pass
-20	27.36	0.031	±2.5	Pass
-10	28.67	0.033	±2.5	Pass
0	30.87	0.035	±2.5	Pass
10	26.53	0.030	±2.5	Pass
20	21.96	0.025	±2.5	Pass
30	23.68	0.027	±2.5	Pass
40	26.64	0.030	±2.5	Pass
50	33.42	0.038	±2.5	Pass

7 Frequency Stability (Voltage Variation) Test

7.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

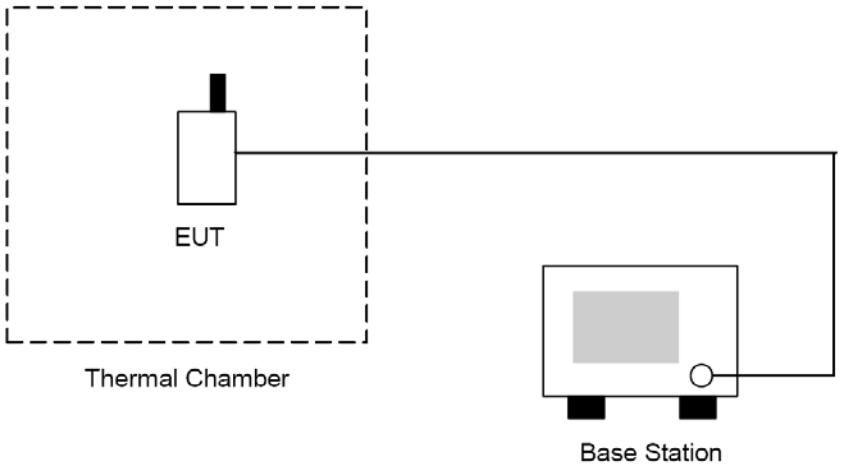
7.2. Test Instruments

Describe	Manufacturer	Model No.	Serial No.	Cal. Date	Remark
Universal Radio Communication Tester	ROHDE & SCHWARZ	CMU200	109369	08/10/2010	(2)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/26/2009	(2)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

7.3. Setup



7.4. Test Procedure

1. The EUT was placed in a temperature chamber at 25±5℃ and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

7.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Voltage Variation) measurement is ± 10Hz.

7.6. Test Result

Model Number	Sphere				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 1				
Date of Test	09/24/2010		Test Site	TE02	
Level	Voltage [Vdc]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	13.80	25.49	0.014	±2.5	Pass
Normal	12.00	26.38	0.014	±2.5	Pass
Battery cut-off point	10.20	23.55	0.013	±2.5	Pass

Model Number	Sphere				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 2				
Date of Test	09/24/2010		Test Site	TE02	
Level	Voltage [Vdc]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	13.80	25.34	0.013	±2.5	Pass
Normal	12.00	22.67	0.012	±2.5	Pass
Battery cut-off point	10.20	27.53	0.014	±2.5	Pass

Model Number	Sphere				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 3				
Date of Test	09/24/2010		Test Site	TE02	
Level	Voltage [Vdc]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	13.80	25.54	0.031	±2.5	Pass
Normal	12.00	23.89	0.029	±2.5	Pass
Battery cut-off point	10.20	26.34	0.031	±2.5	Pass

Model Number	Sphere				
Test Item	Frequency Stability (Voltage Variation)				
Test Mode	Mode 4				
Date of Test	09/24/2010		Test Site	TE02	
Level	Voltage [Vdc]	Deviation [Hz]	Deviation [ppm]	Limit [ppm]	Result
Battery full point	13.80	29.87	0.034	±2.5	Pass
Normal	12.00	30.72	0.035	±2.5	Pass
Battery cut-off point	10.20	28.37	0.032	±2.5	Pass