



NVLAP LAB CODE 200707-0



FCC PART 15.247

MEASUREMENT AND TEST REPORT

For

Shenzhen Shuaixian Electronic Equipment Co., Ltd.

No.10 Longxing road, Dakang Long Village, Henggang Town,
Shenzhen, Guangdong, China

FCC ID: UHB-SX-919

Report Type: Original Report	Product Type: Bluetooth Headset
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Report Number: RSZ10010502	
Report Date: 2010-01-27	
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* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen Shuaixian Electronic Equipment Co., Ltd.*'s product, model number: *SX-919* (FCC ID: *UHB-SX-919*) or the "EUT" as referred to in this report is a *BLUETOOTH HEADSET*, which measures approximately: 4.8 cm L x 2.8 cm W x 2.5 cm H, rated input voltage: DC 1.8 V Li-ion battery.

Note: The model number *SX-918*, *SX-926*, *SX-927*, *SX-923*, *SX-905*, *SX-907*, *SX-908*, *SX-909*, *SX-910*, *SX-912*, *SX-922*, *SX-928*, *SX-929*, *SX-930*, *SX-935*, *SX-936*, *SX-937* and *SX-939* are identical with the model number *SX-919*, the difference between them is just the names due to marketing purposes, and we select *SX-919* to test, which was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 10011002 (Assigned by BACL, Shenzhen). The EUT was received on 2010-01-05.

Objective

This Type approval report is prepared on behalf of *Shenzhen Shuaixian Electronic Equipment Co., Ltd.* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Equipment Modifications

No modification was made to the unit tested.

EUT Exercise Software

RF control kit V1.0 provided by the manufacturer.

Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
DELL	Motherboard	OWC297	CN-OWC297-70821-566-02BR	DoC
DELL	Power	NPS-250KB D	CN-0H2678-17972-56E8NBM	DoC
Seagate	Hard Disk	ST340014A	5JXK3NAD	DoC
DELL	3.5' Floppy	N/A	CN-0N8893-69802-54Q-02OZ	DoC
Lite-ON	CD-Rom	LTN-489S	N/A	DoC
Intel	CPU	Celeron D-2533	N/A	N/A
ProMOS	Memory	V826632K24SATG-C0	0525-K1933700	N/A
Intel	Ethernet	PRO 10/100 VE	N/A	DoC

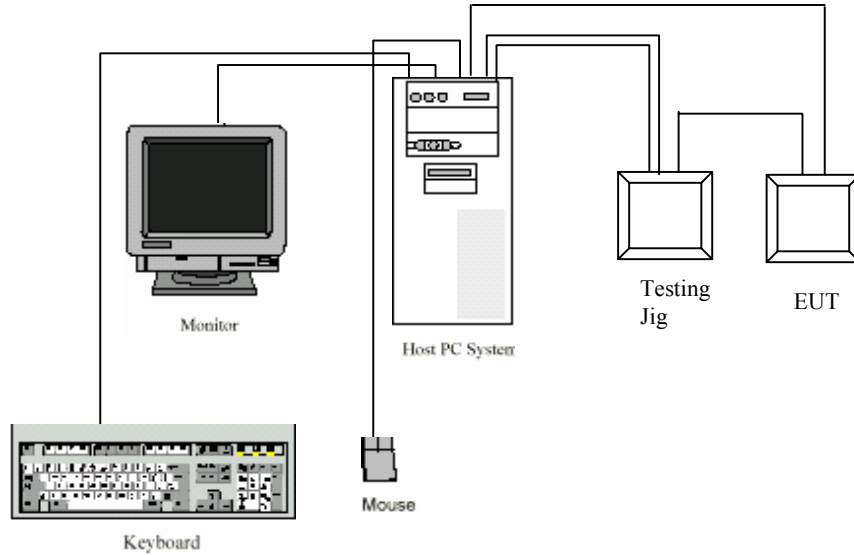
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
DELL	PC	2#	N/A	DOC
DELL	Keyboard 2#	L100	CNORH65668907BL05DC	DOC
DELL	Mouse 2#	MOC5UO	G1900NKD	DOC
DELL	LCD Monitor	1505FP	Y4287-7168-574-GBSH	DOC
SUICEN	Testing Jig	JSSCTF16XXNM-1-V1	N/A	N/A

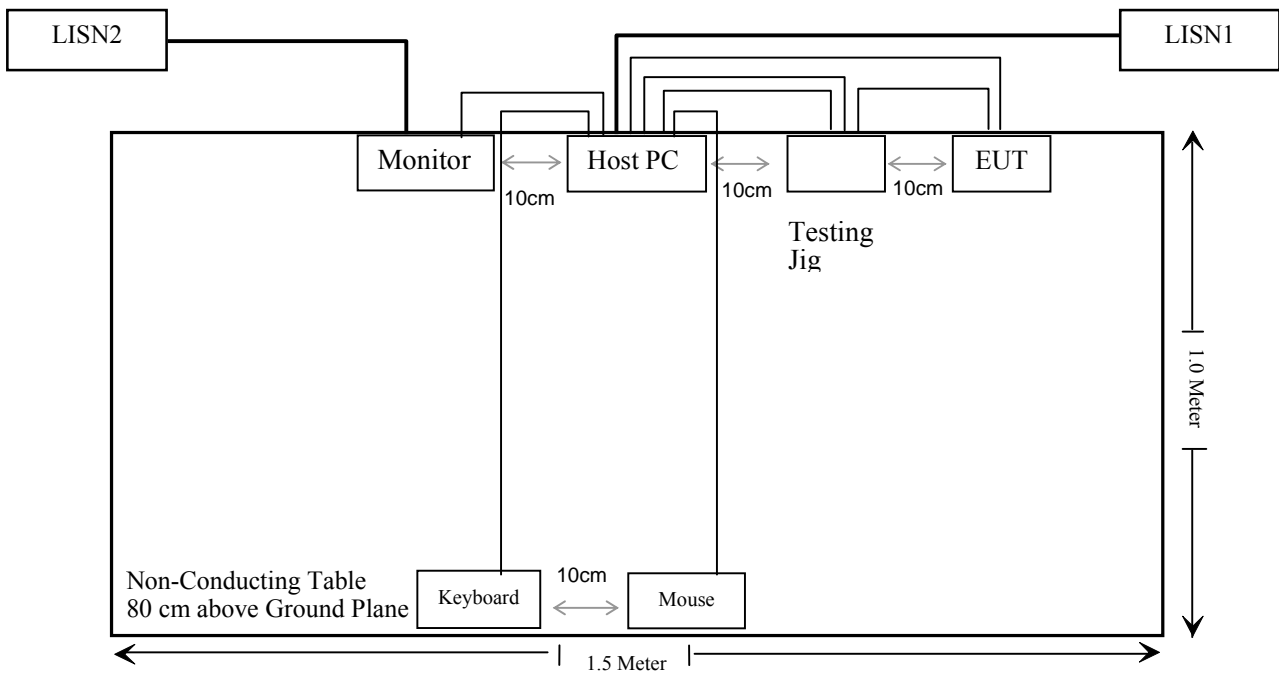
External I/O Cable

Cable Description	Length (M)	From/Port	To
Unshielded Detachable USB Line	1.50	Testing Jig	USB Port of PC
Unshielded Detachable Gorge Line	1.20	Testing Jig	SATA of PC
Unshielded Detachable USB Line	1.00	EUT	USB Port of PC

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247(i), §1.1307 (b)(1) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
§15.247 (a)(1)	20 dB Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

CFR47 §15.247(i), §1.1307(b)(1) & §2.1093 - RF EXPOSURE**Standard Applicable**

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v03r03, no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is $\leq 60/f$ (GHz) mW, the test reduction and test exclusion procedures given herein, or in KDB 616217 or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f$ (GHz) mW or all measured 1-g SAR are < 0.4 W/kg.10 When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

Measurement Result:

Max peak output power:

$$P_{\text{BDR}} = -0.73 \text{ dBm} = 0.845 \text{ mW}$$

$$P_{\text{EDR}} = -1.01 \text{ dBm} = 0.793 \text{ mW}$$

$$60/f_{\text{GHz}} = 60/2480 = 24.19 \text{ mW}$$

This is a portable device and the Max peak output power of EUT is less than 24.19 mW, SAR measurement is not necessary.

CFR47 §15.203 – ANTENNA REQUIREMENT

Standard Applicable

According to CFR47 § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has a printed antenna soldered to the PCB, which in accordance to section 15.203, the maximum gain is -2.0 dBi; please refer to the internal photos.

Result: Compliant.

CFR47 §15.207(a) - CONDUCTED EMISSIONS

Applicable Standard

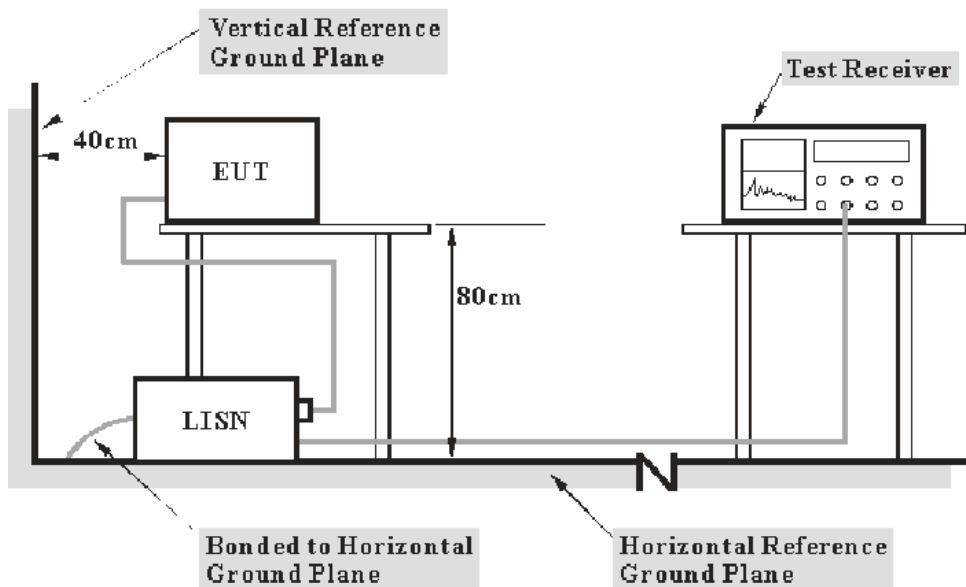
CFR47 §15.207

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is ± 2.4 dB.

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The host PC was connected to a 120V 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>IF B/W</i>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2009-04-28	2010-04-27
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2009-04-28	2010-04-27

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the host PC was connected to the outlet of the first LISN, and the monitor was connected to the outlet of the second LISN..

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

10.35 dB at 13.960 MHz in the **Line** conductor mode
11.26 dB at 14.100 MHz in the **Neutral** conductor mode

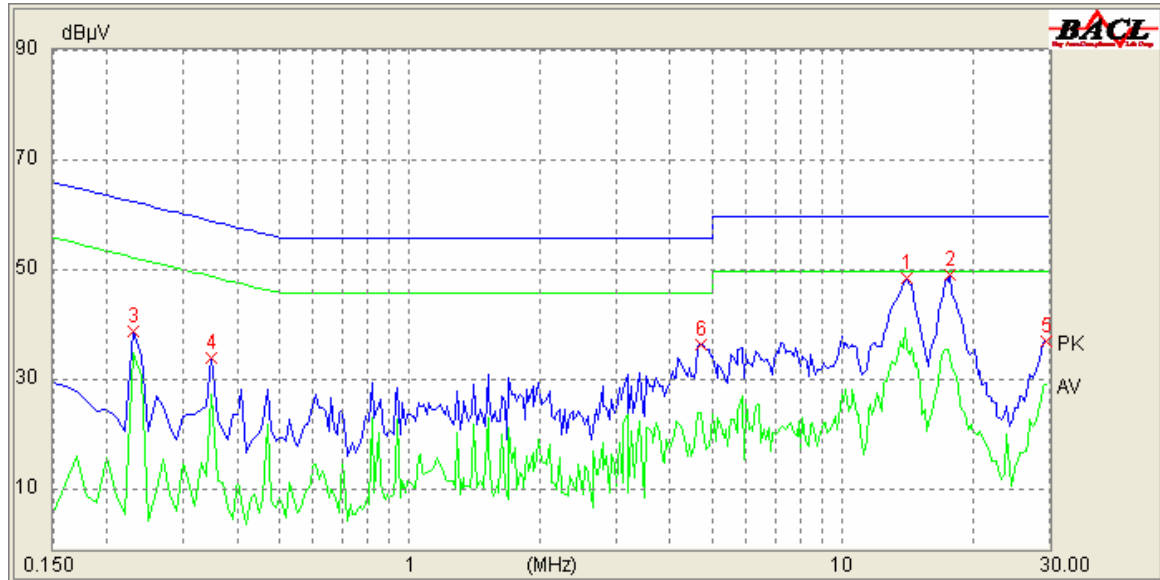
Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

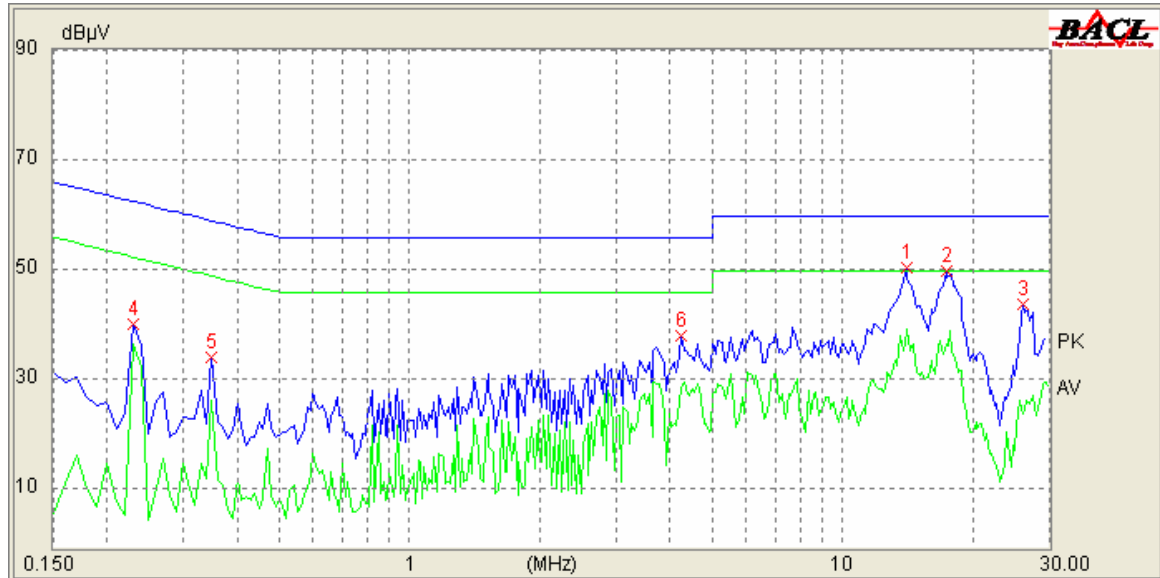
* The testing was performed by Cookies Bu on 2010-01-26.

120 V/60 Hz, Line



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV/QP)
13.960	10.30	39.65	50.00	10.35	AV
17.680	10.30	34.75	50.00	15.25	AV
0.230	10.10	35.35	52.48	17.13	AV
14.090	10.30	42.14	60.00	17.86	QP
17.680	10.30	40.17	60.00	19.83	QP
29.450	10.30	29.62	50.00	20.38	AV
0.350	10.10	27.88	49.07	21.19	AV
4.720	10.10	24.34	46.00	21.66	AV
0.350	10.10	33.44	59.07	25.63	QP
0.230	10.10	36.83	62.48	25.65	QP
29.520	10.30	32.66	60.00	27.34	QP
4.710	10.10	26.59	56.00	29.41	QP

120 V/60 Hz, Neutral:



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Correction Factor (dB)	Cord. Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector (PK/AV/QP)
14.100	10.30	38.74	50.00	11.26	AV
17.410	10.30	36.72	50.00	13.28	AV
0.230	10.10	36.79	52.48	15.69	AV
4.260	10.10	29.10	46.00	16.90	AV
14.080	10.30	40.47	60.00	19.53	QP
17.400	10.30	39.05	60.00	20.95	QP
0.350	10.10	26.52	49.07	22.55	AV
0.230	10.10	38.19	62.48	24.29	QP
0.350	10.10	33.46	59.07	25.61	QP
26.050	10.30	24.03	50.00	25.97	AV
4.260	10.10	23.45	56.00	32.55	QP
26.230	10.30	15.11	60.00	44.89	QP

CFR47 §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

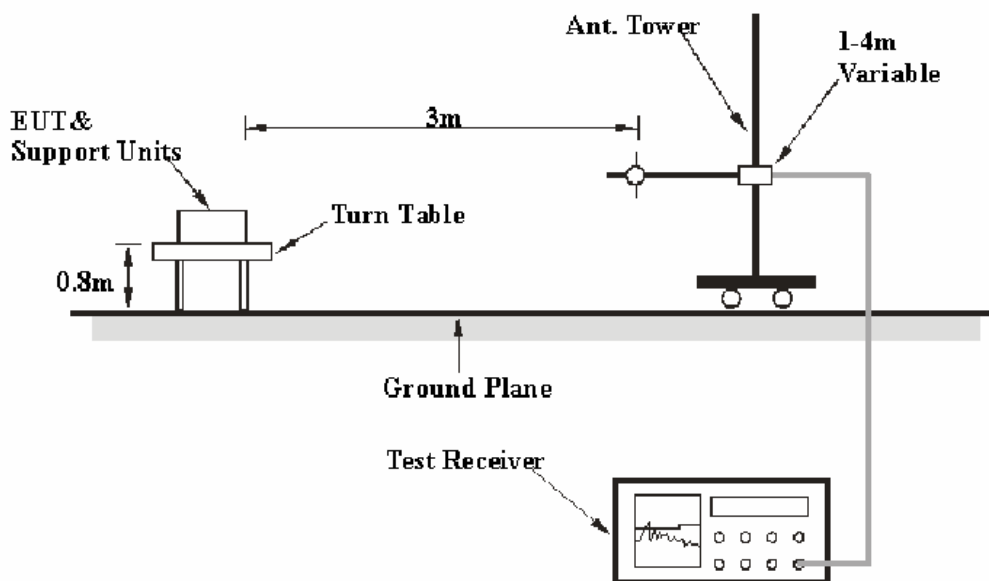
CFR47 §15.205; §15.209; §15.247 (d)

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	<i>Detector</i>
30MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	AV

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2009-08-02	2010-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2009-03-11	2010-03-11
HP	Amplifier	8449B	3008A00277	2009-09-12	2010-09-11
Sunol Sciences	Horn Antenna	DRH-118	A052604	2009-09-25	2010-09-25
A.H. System	Horn Antenna	SAS-200/571	135	2009-05-17	2010-05-17
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2009-08-28	2010-08-27

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the host was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, with the worst margin reading of:

Below 1 GHz:

6.5 dB at 31.484000 MHz in the Vertical polarization for BDR
6.5 dB at 30.946500 MHz in the Vertical polarization for EDR

Above 1 GHz:

BDR

10.19 dB at 4804.00 MHz in the Horizontal polarization (Low Channel)
10.07 dB at 4882.00 MHz in the Horizontal polarization (Middle Channel)
10.45 dB at 4960.00 MHz in the Horizontal polarization (High Channel)

EDR

13.11 dB at 4804.00 MHz in the Horizontal polarization (Low Channel)
12.38 dB at 4882.00 MHz in the Horizontal polarization (Middle Channel)
12.42 dB at 4960.00 MHz in the Horizontal polarization (High Channel)

Test Data

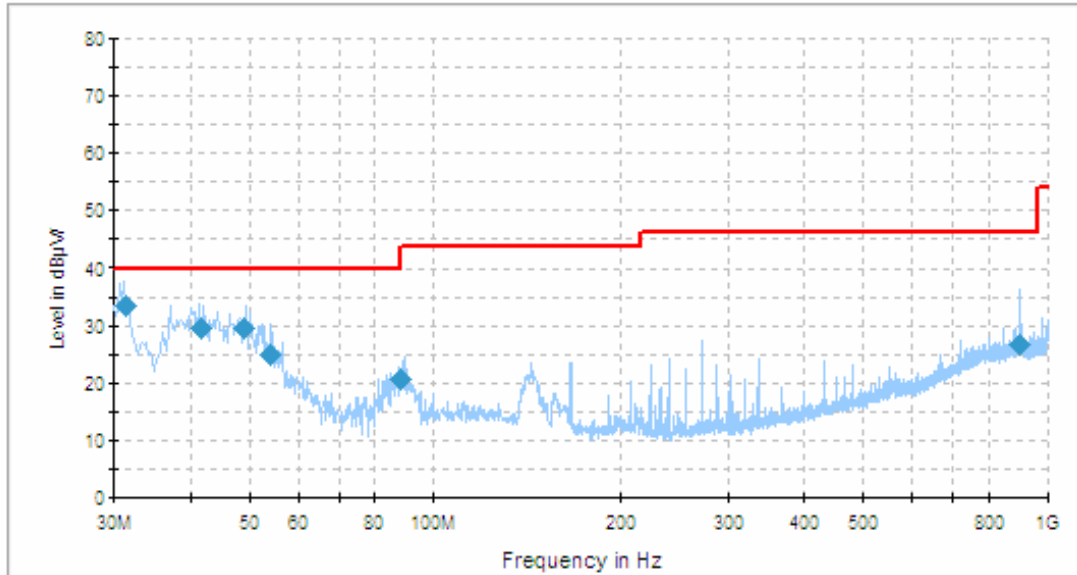
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.9 kPa

* The testing was performed by Cookies Bu on 2010-01-25.

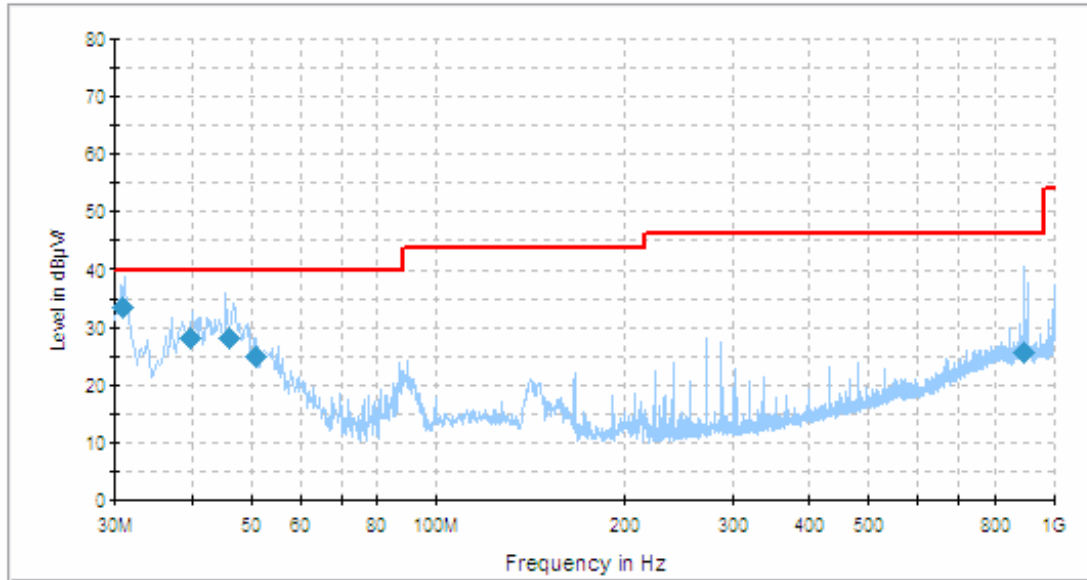
Test Mode: Transmitting (Below 1 GHz)

BDR:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (degree)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
31.484000	33.5	97.0	V	267.0	-7.1	40.0	6.5
48.968500	29.8	97.0	V	302.0	-18.5	40.0	10.2
41.748250	29.6	97.0	V	300.0	-14.4	40.0	10.4
54.214500	25.0	114.0	V	268.0	-19.4	40.0	15.0
897.565750	26.7	383.0	H	162.0	-0.3	46.0	19.3
88.040500	20.8	97.0	V	111.0	-20.2	43.5	22.7

EDR:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (degree)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
30.946500	33.5	97.0	V	306.0	-6.7	40.0	6.5
39.737750	28.4	120.0	V	253.0	-13.1	40.0	11.6
45.939500	28.3	104.0	V	267.0	-16.9	40.0	11.7
51.033750	25.2	116.0	V	252.0	-19.1	40.0	14.8
891.563500	25.8	169.0	H	9.0	-0.2	46.0	20.2

Test Mode: Transmitting (Above 1 GHz, BDR)

Frequency (MHz)	S.A. Reading (dB μ V/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	FCC Part 15.247/209		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dB μ V/m)	Margin (dB)	Remarks
Low Channel (2402 MHz)												
4804.00	33.01	AV	240	1.0	H	36.6	7.60	33.4	43.81	54	10.19	harmonic
4804.00	33.03	AV	180	1.0	V	35.4	7.60	33.4	42.63	54	11.37	harmonic
2701.96	35.58	AV	59	1.3	V	30.9	7.90	33.8	40.58	54	13.42	spurious
2334.84	34.27	AV	320	1.5	V	30.9	7.91	34.0	39.08	54	14.92	spurious
2332.28	34.24	AV	146	1.3	H	30.9	7.91	34.0	39.05	54	14.95	spurious
4804.00	46.34	PK	240	1.0	H	36.6	7.60	33.4	57.14	74	16.86	harmonic
1737.87	36.02	AV	156	1.5	H	28.3	5.99	34.2	36.11	54	17.89	spurious
4804.00	46.40	PK	180	1.0	V	35.4	7.60	33.4	56.00	74	18.00	harmonic
2701.96	48.87	PK	59	1.3	V	30.9	7.90	33.8	53.87	74	20.13	spurious
2332.28	47.57	PK	146	1.3	H	30.9	7.91	34.0	52.38	74	21.62	spurious
2334.84	47.55	PK	320	1.5	V	30.9	7.91	34.0	52.36	74	21.64	spurious
1737.87	49.30	PK	156	1.5	H	28.3	5.99	34.2	49.39	74	24.61	spurious
Middle Channel (2441 MHz)												
4882.00	33.12	AV	250	1.0	H	36.6	7.61	33.4	43.93	54	10.07	harmonic
4882.00	33.01	AV	178	1.1	V	35.4	7.61	33.4	42.62	54	11.38	harmonic
4882.00	46.42	PK	250	1.0	H	36.6	7.61	33.4	57.23	74	16.77	harmonic
1084.16	37.36	AV	175	1.3	H	27.5	5.62	34.4	36.08	54	17.92	spurious
4882.00	46.30	PK	178	1.1	V	35.4	7.61	33.4	55.91	74	18.09	harmonic
1878.15	35.15	AV	154	1.5	V	27.8	5.62	34.4	34.17	54	19.83	spurious
1084.16	50.66	PK	175	1.3	H	27.5	5.62	34.4	49.38	74	24.62	spurious
1878.15	48.44	PK	155	1.5	V	27.8	5.62	34.4	47.46	74	26.54	spurious
High Channel (2480 MHz)												
4960.00	32.72	AV	35	1.1	H	36.6	7.63	33.4	43.55	54	10.45	harmonic
4960.00	33.01	AV	355	1.1	V	35.4	7.63	33.4	42.64	54	11.36	harmonic
2948.89	34.45	AV	280	1.2	V	31.0	8.07	33.8	39.72	54	14.28	spurious
2494.45	34.68	AV	89	1.3	H	30.9	7.93	34.0	39.51	54	14.49	spurious
2487.07	34.29	AV	210	1.5	V	30.9	7.93	34.0	39.12	54	14.88	spurious
4960.00	46.01	PK	35	1.1	H	36.6	7.63	33.4	56.84	74	17.16	harmonic
4960.00	46.21	PK	355	1.1	V	35.4	7.63	33.4	55.84	74	18.16	harmonic
2948.89	47.84	PK	280	1.2	V	31.0	8.07	33.8	53.11	74	20.89	spurious
2494.45	47.98	PK	89	1.3	H	30.9	7.93	34.0	52.81	74	21.19	spurious
2487.07	47.53	PK	210	1.5	V	30.9	7.93	34.0	52.36	74	21.64	spurious
1381.56	34.85	AV	150	1.1	H	26.7	5.37	34.6	32.32	54	21.68	spurious
1381.56	48.10	PK	150	1.1	H	26.7	5.37	34.6	45.57	74	28.43	spurious

Test Mode: Transmitting (Above 1 GHz, EDR)

Frequency (MHz)	S.A. Reading (dB μ V/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	FCC Part 15.247/209		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dB μ V/m)	Margin (dB)	Remarks
Low Channel (2402 MHz)												
4804.00	30.09	AV	240	1.0	H	36.6	7.60	33.4	40.89	54	13.11	harmonic
4804.00	30.78	AV	180	1.0	V	35.4	7.60	33.4	40.38	54	13.62	harmonic
2311.12	32.36	AV	146	1.3	H	30.9	7.91	34.0	37.17	54	16.83	spurious
4804.00	46.34	PK	240	1	H	36.6	7.60	33.4	57.14	74	16.86	harmonic
2316.41	32.28	AV	320	1.5	V	30.9	7.91	34.0	37.09	54	16.91	spurious
4804.00	46.02	PK	180	1	V	35.4	7.60	33.4	55.62	74	18.38	harmonic
2311.12	47.61	PK	146	1.3	H	30.9	7.91	34.0	52.42	74	21.58	spurious
2316.41	47.59	PK	320	1.5	V	30.9	7.91	34.0	52.40	74	21.6	spurious
1274.94	32.85	AV	226	1.3	V	24.8	5.11	34.8	27.96	54	26.04	spurious
1084.17	32.82	AV	157	1.2	H	25.1	4.78	35.0	27.70	54	26.3	spurious
1274.94	48.19	PK	226	1	V	24.8	5.11	34.8	43.30	74	30.7	spurious
1084.17	48.10	PK	157	1	H	25.1	4.78	35.0	42.98	74	31.02	spurious
Middle Channel (2441 MHz)												
4882.00	30.81	AV	250	1.0	H	36.6	7.61	33.4	41.62	54	12.38	harmonic
4882.00	30.28	AV	178	1.1	V	35.4	7.61	33.4	39.89	54	14.11	harmonic
4882.00	46.02	PK	250	1.0	H	36.6	7.61	33.4	56.83	74	17.17	harmonic
4882.00	46.52	PK	178	1.1	V	35.4	7.61	33.4	56.13	74	17.87	harmonic
1165.53	32.52	AV	154	1.5	V	27.80	5.62	34.4	31.54	54	22.46	spurious
1749.09	32.51	AV	175	1.3	H	27.5	5.62	34.4	31.23	54	22.77	spurious
1165.53	48.87	PK	155	1.5	V	27.80	5.62	34.4	47.89	74	26.11	spurious
1749.09	48.77	PK	175	1.3	H	27.5	5.62	34.4	47.49	74	26.51	spurious
High Channel (2480 MHz)												
4960.00	30.75	AV	35	1.1	H	36.6	7.63	33.4	41.58	54	12.42	harmonic
4960.00	30.55	AV	355	1.1	V	35.4	7.63	33.4	40.18	54	13.82	harmonic
4960.00	46.32	PK	35	1.1	H	36.6	7.63	33.4	57.15	74	16.85	harmonic
2483.95	31.67	AV	210	1.5	V	30.9	7.93	34.0	36.5	54	17.5	spurious
4960.00	46.64	PK	355	1.1	V	35.4	7.63	33.4	56.27	74	17.73	harmonic
2495.34	31.01	AV	89	1.3	H	30.9	7.93	34.0	35.84	54	18.16	spurious
2483.95	47.89	PK	210	1.5	V	30.9	7.93	34.0	52.72	74	21.28	spurious
1749.09	32.25	AV	150	1.1	H	28.3	5.99	34.2	32.34	54	21.66	spurious
2495.34	47.20	PK	89	1.3	H	30.9	7.93	34.0	52.03	74	21.97	spurious
1162.76	34.51	AV	280	1.2	V	24.8	5.11	34.8	29.62	54	24.38	spurious
1749.09	48.59	PK	150	1.1	H	28.3	5.99	34.2	48.68	74	25.32	spurious
1162.76	50.77	PK	280	1.2	V	24.8	5.11	34.8	45.88	74	28.12	spurious

CFR47 §15.247(a)(1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 100 kHz, maxhold the channel.
2. Set the adjacent channel of the EUT maxhold another truce
3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

* The testing was performed by Cookies Bu on 2010-01-21.

Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.004	0.581	Pass
Adjacent Channel	2403			
Mid Channel	2441	1.004	0.581	Pass
Adjacent Channel	2442			
High Channel	2480	1.004	0.581	Pass
Adjacent Channel	2479			

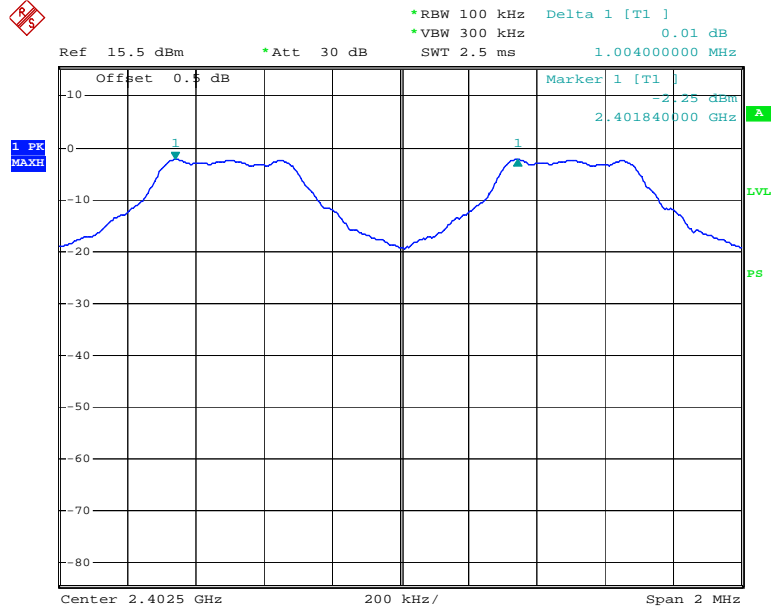
Test Mode: Transmitting (EDR)

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.000	0.816	Pass
Adjacent Channel	2403			
Mid Channel	2441	1.000	0.816	Pass
Adjacent Channel	2442			
High Channel	2480	1.010	0.816	Pass
Adjacent Channel	2479			

Please refer to the following plots.

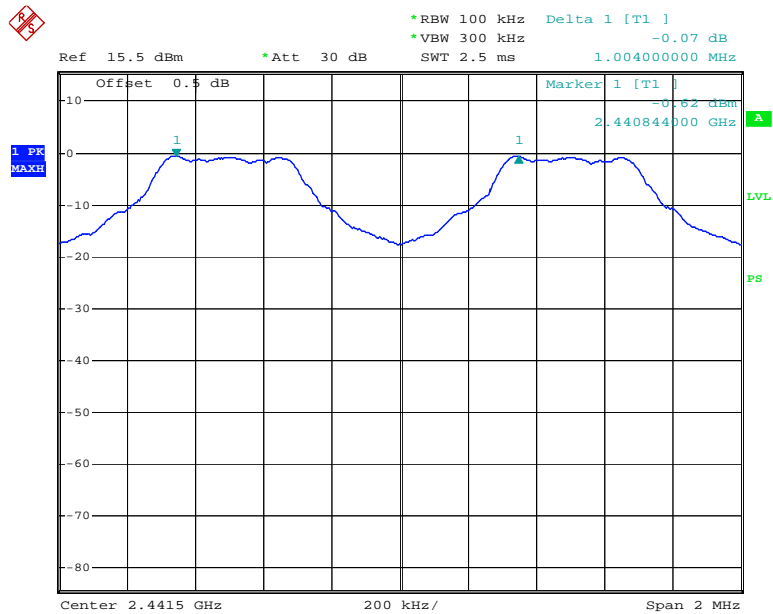
BDR:

Low Channel



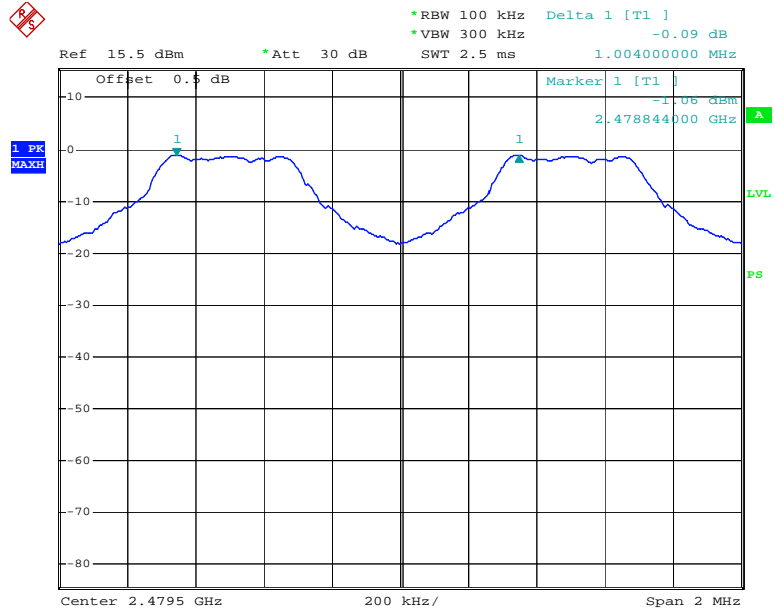
Date: 21.JAN.2010 05:33:15

Middle Channel



Date: 21.JAN.2010 05:35:09

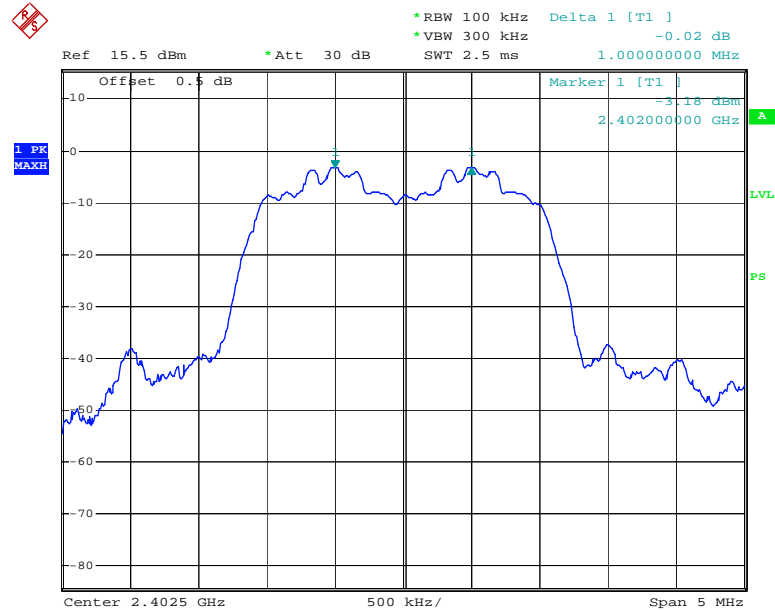
High Channel



Date: 21.JAN.2010 05:36:13

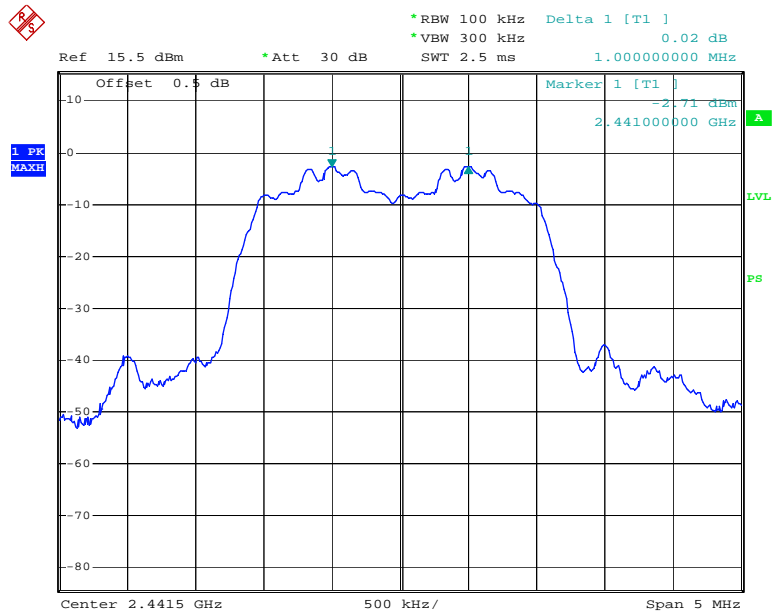
EDR:

Low Channel



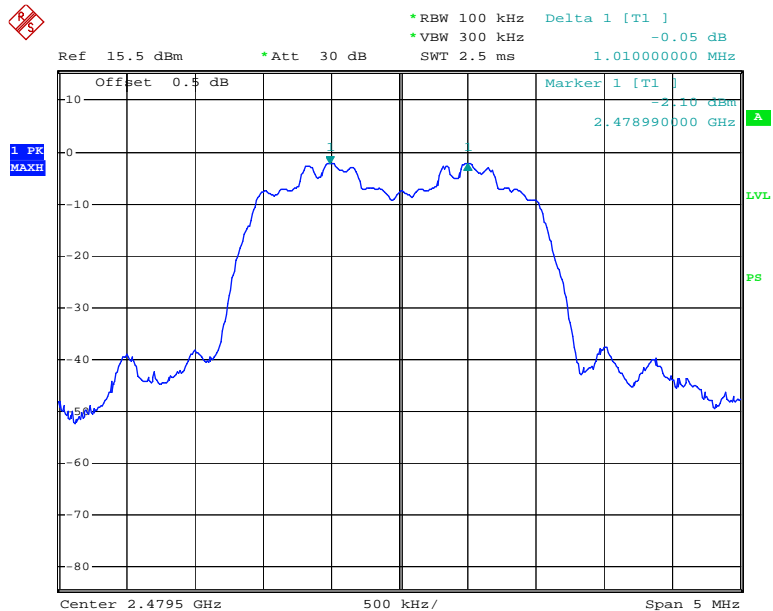
Date: 21.JAN.2010 08:00:59

Middle Channel



Date: 21.JAN.2010 08:02:06

High Channel



Date: 21.JAN.2010 08:03:29

CFR47 §15.247(a)(1) – 20 dB BANDWIDTH TESTING

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

* The testing was performed by Cookies Bu on 2010-01-21 and 2010-01-23.

Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	0.872
Middle	2441	0.872
High	2480	0.872

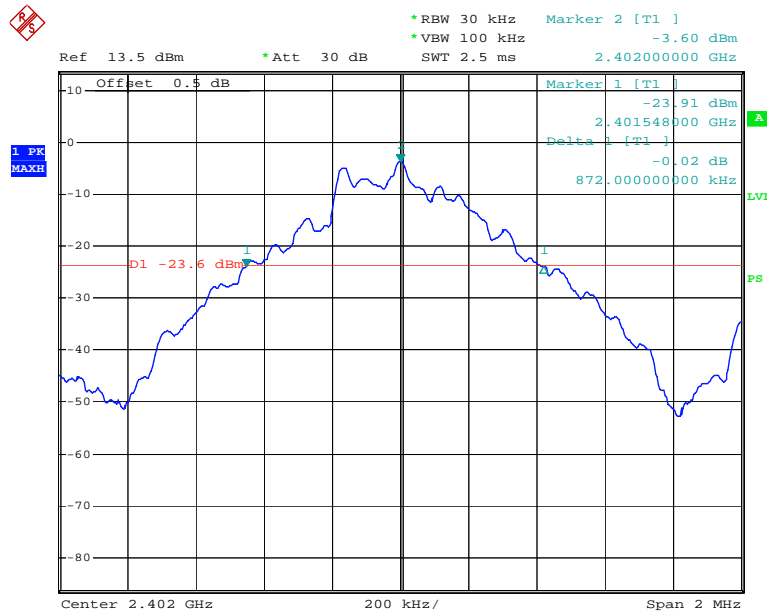
Test Mode: Transmitting (EDR)

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.224
Middle	2441	1.224
High	2480	1.224

Please refer to the following plots.

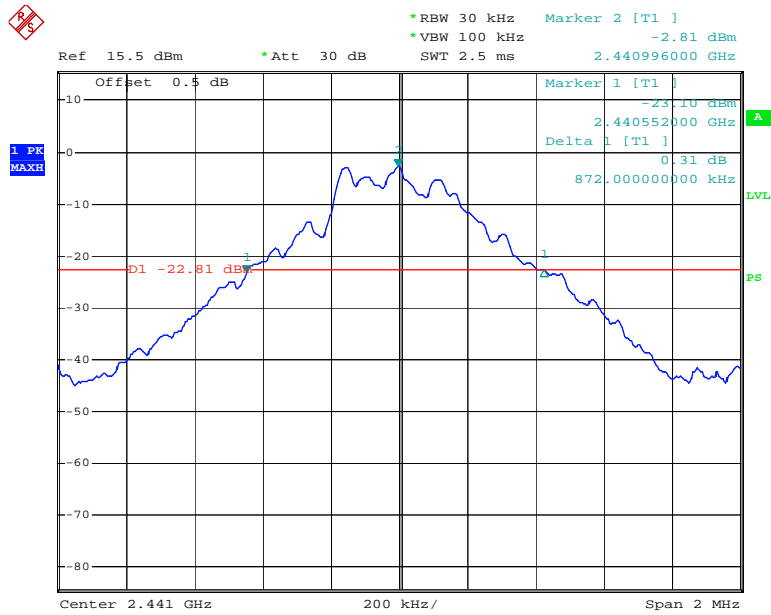
BDR

Low Channel



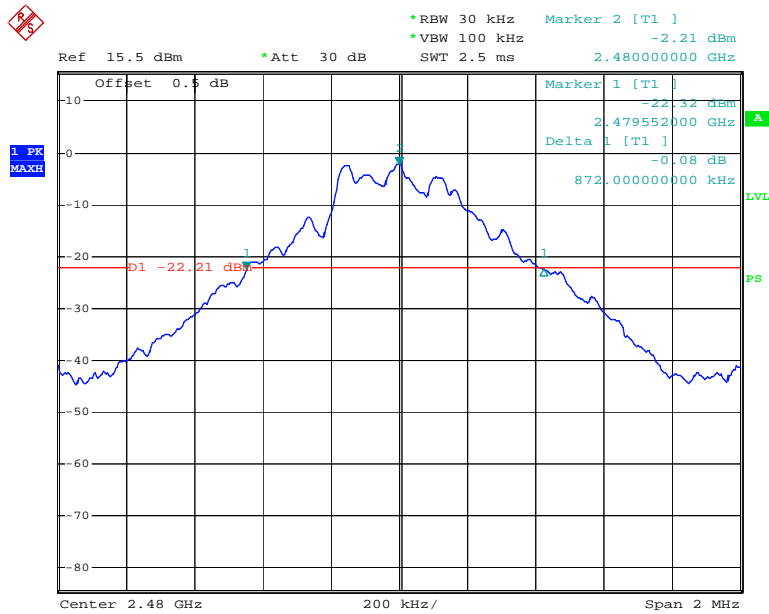
Date: 23.JAN.2010 13:23:05

Middle Channel



Date: 21.JAN.2010 05:26:34

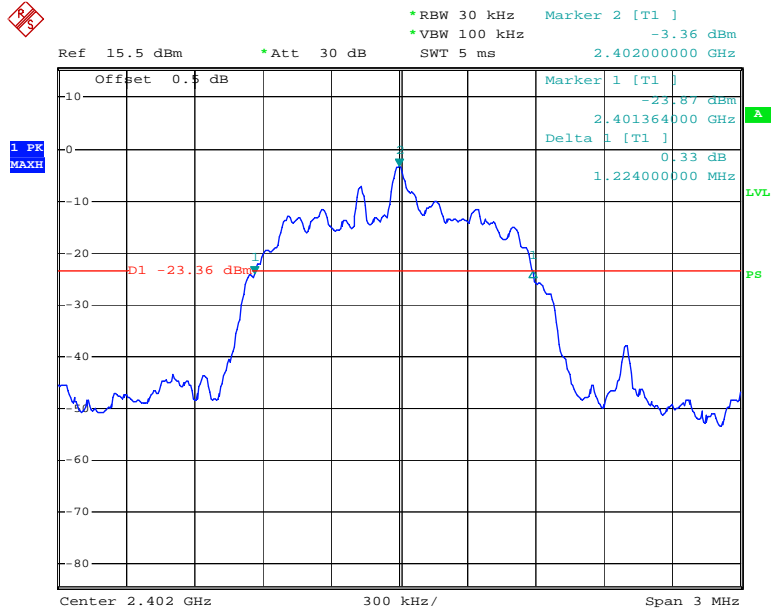
High Channel



Date: 21.JAN.2010 05:30:28

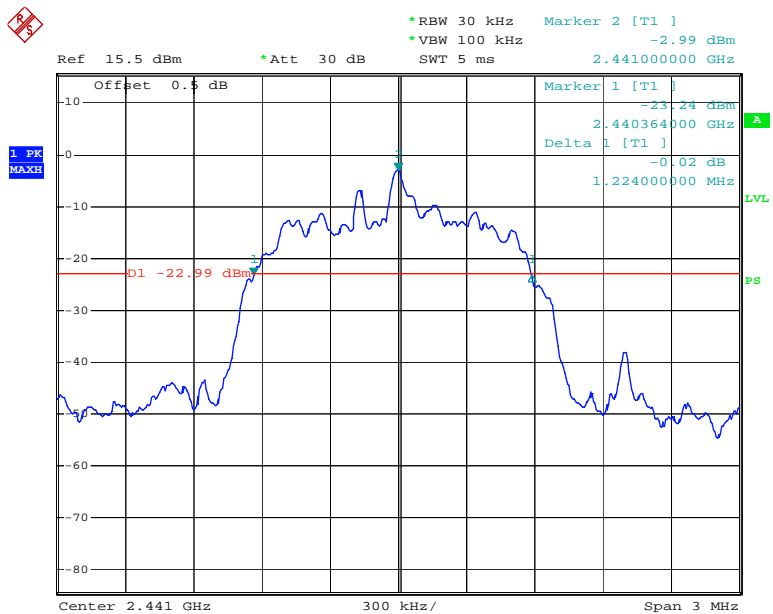
EDR

Low Channel



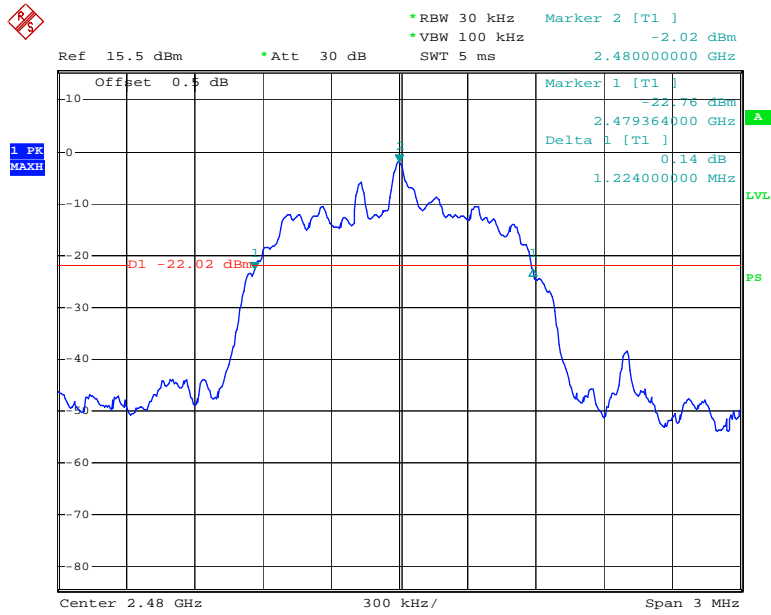
Date: 21.JAN.2010 07:54:32

Middle Channel



Date: 21.JAN.2010 07:56:02

High Channel



Date: 21.JAN.2010 07:51:48

CFR47 §15.247(a)(1)(iii)-QUANTITY OF HOPPING CHANNEL TEST**Applicable Standard**

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

The testing was performed by Cookies Bu on 2010-01-21.

Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

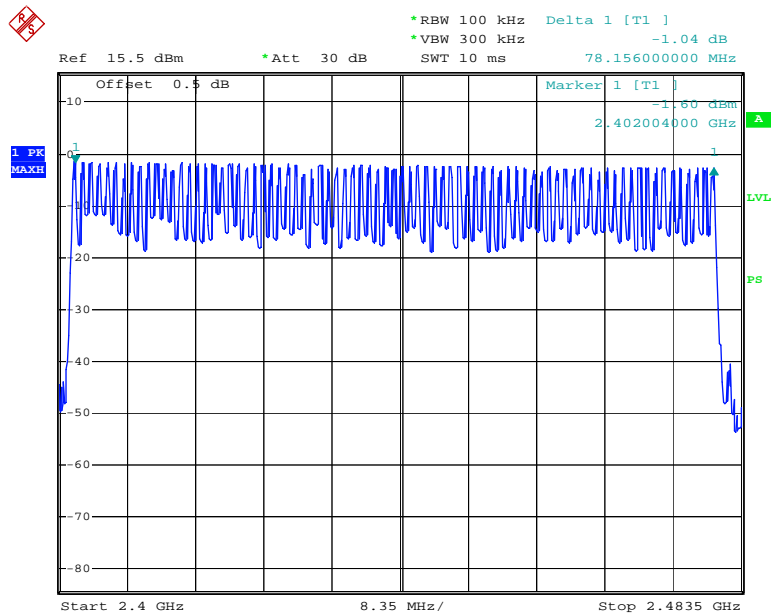
Frequency Range (MHz)	Number of Hopping Channel	Limit
2400~2483.5	79	≥ 15

Test Mode: Transmitting (EDR)

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400~2483.5	79	≥ 15

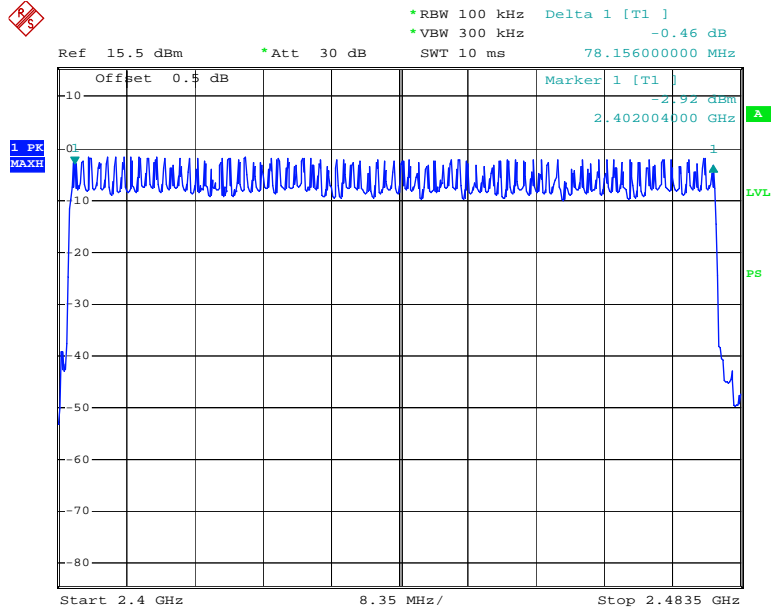
Number of Hopping Channels

BDR



Date: 21.JAN.2010 09:46:38

EDR



Date: 21.JAN.2010 08:12:54

CFR47 §15.247(a)(1)(iii) -TIME OF OCCUPANCY (DWELL TIME)**Applicable Standard**

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 X channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s
Hop rate=1600/s

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

* The testing was performed by Cookies Bu on 2010-01-21.

Test Result: Compliant.

Please refer to following tables and plots

Test Mode: Transmitting (BDR)

DH 1 Mode:

Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	0.525	0.1680	0.4	Pass
Middle	0.537	0.1718	0.4	Pass
High	0.534	0.1709	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 2 \div 79) \times 31.6 Second

DH 3 Mode:

Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	1.816	0.2906	0.4	Pass
Middle	1.804	0.2886	0.4	Pass
High	1.794	0.2870	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 4 \div 79) \times 31.6 Second

DH 5 Mode:

Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	3.06	0.3264	0.4	Pass
Middle	3.10	0.3307	0.4	Pass
High	3.07	0.3275	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 6 \div 79) \times 31.6 Second

Test Mode: Transmitting (EDR)

DH 1 Mode:

Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	0.5600	0.1792	0.4	Pass
Middle	0.54245	0.1736	0.4	Pass
High	0.54885	0.1756	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 2 \div 79) \times 31.6 Second

DH 3 Mode:

Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	1.812	0.2899	0.4	Pass
Middle	1.806	0.2890	0.4	Pass
High	1.806	0.2890	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 4 \div 79) \times 31.6 Second

DH 5 Mode:

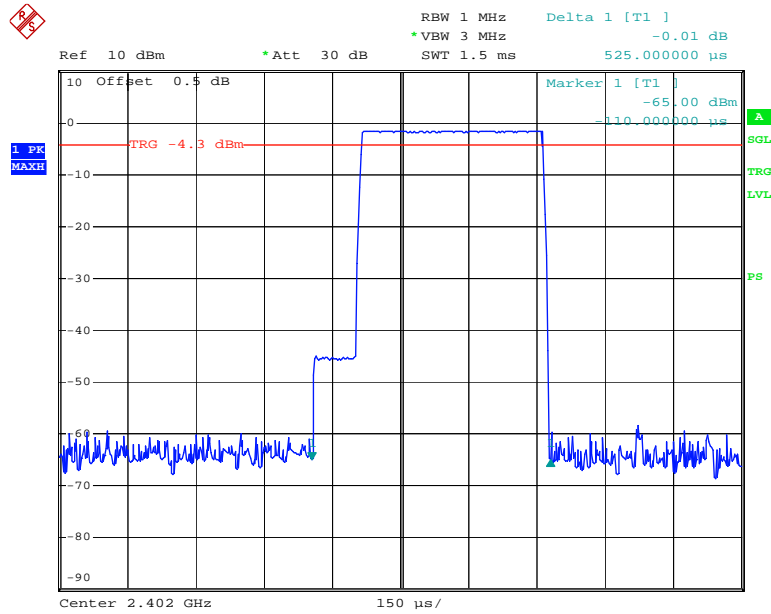
Channel	Pulse Width (ms)	Dwell Time (Sec)	Limit (Sec)	Result
Low	3.08	0.3285	0.4	Pass
Middle	3.11	0.3317	0.4	Pass
High	3.09	0.3296	0.4	Pass

Note: Dwell time=Pulse width (ms) \times (1600 \div 6 \div 79) \times 31.6 Second

Please refer to the following plots.

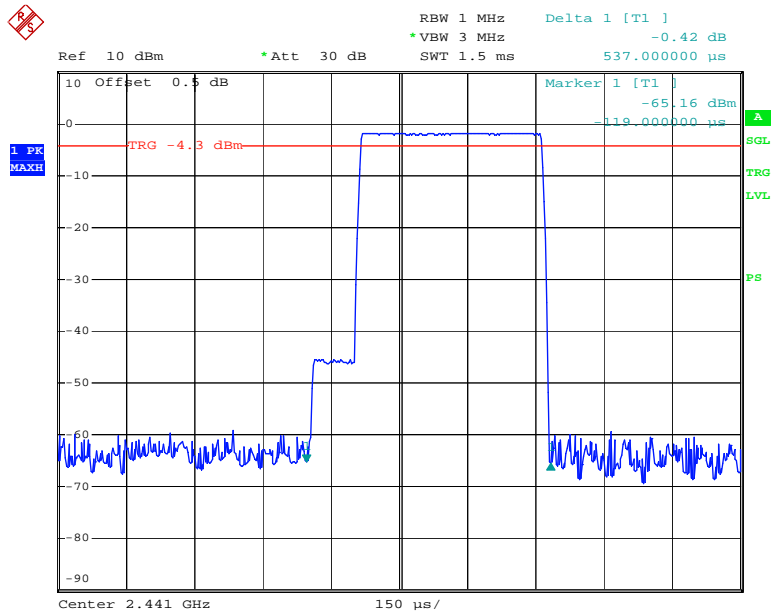
BDR

Low Channel for DH1



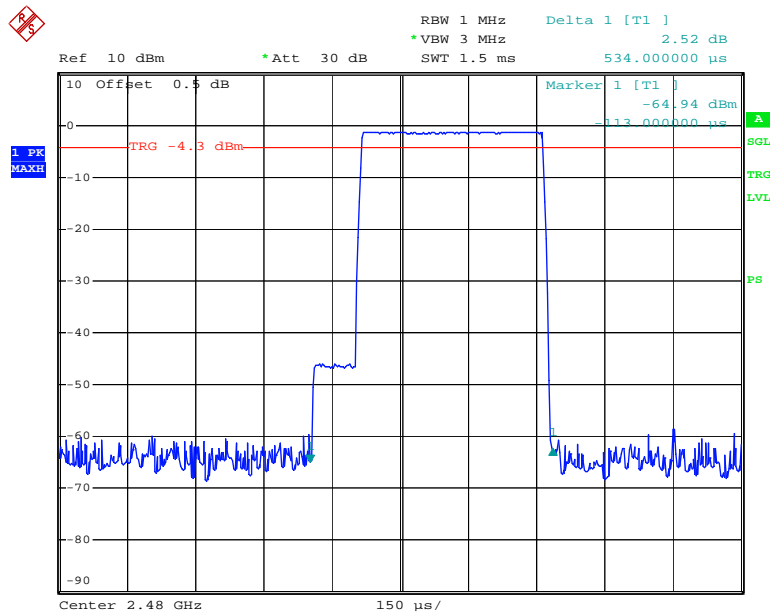
Date: 21.JAN.2010 09:42:14

Middle Channel for DH1



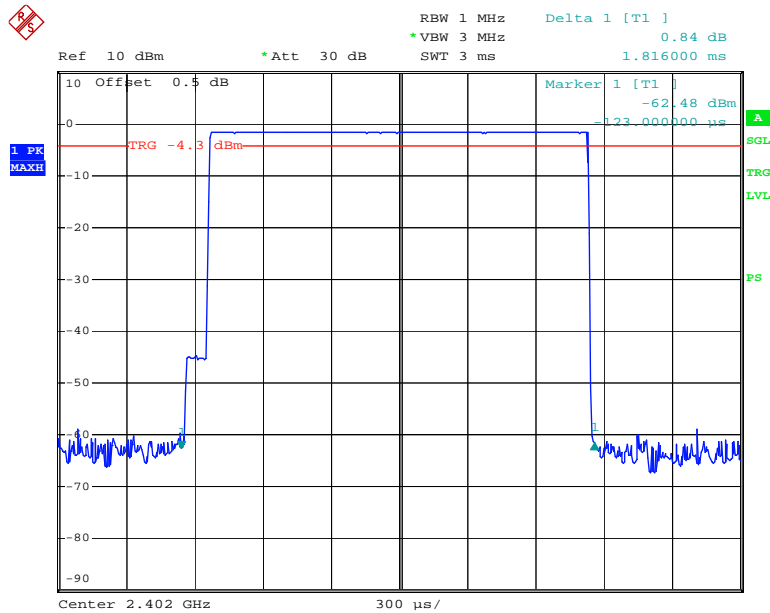
Date: 21.JAN.2010 09:41:05

High Channel for DH1



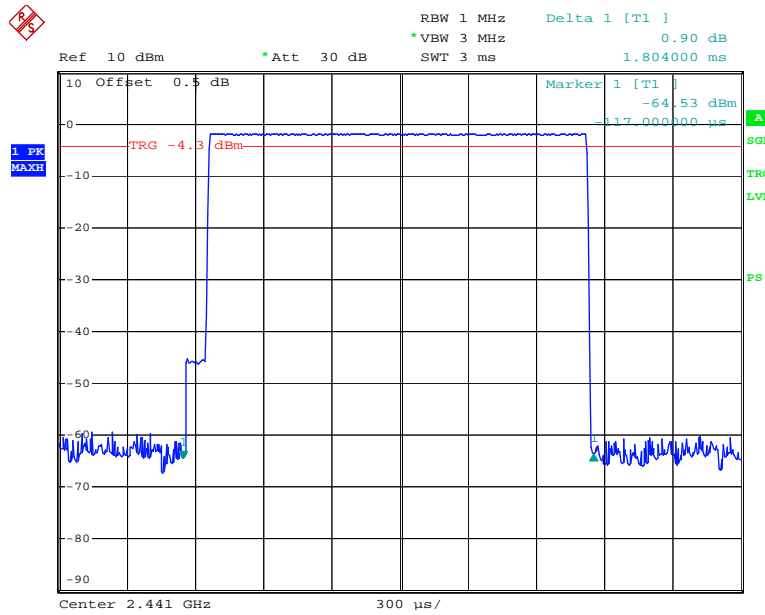
Date: 21.JAN.2010 09:40:14

Low Channel for DH3



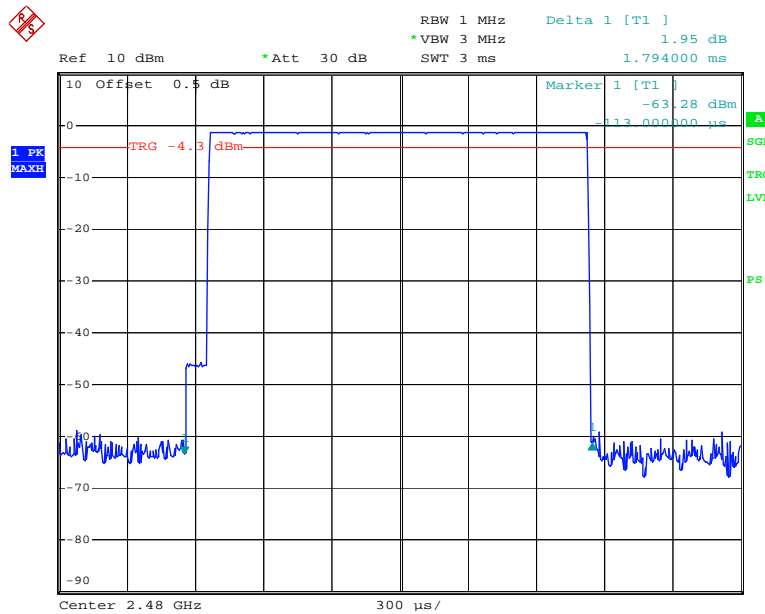
Date: 21.JAN.2010 09:35:35

Middle Channel for DH3



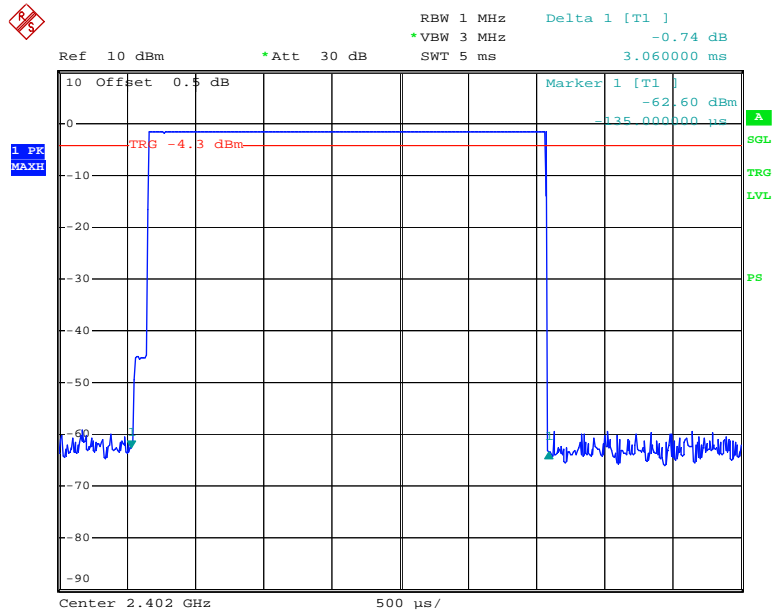
Date: 21.JAN.2010 09:36:38

High Channel for DH3



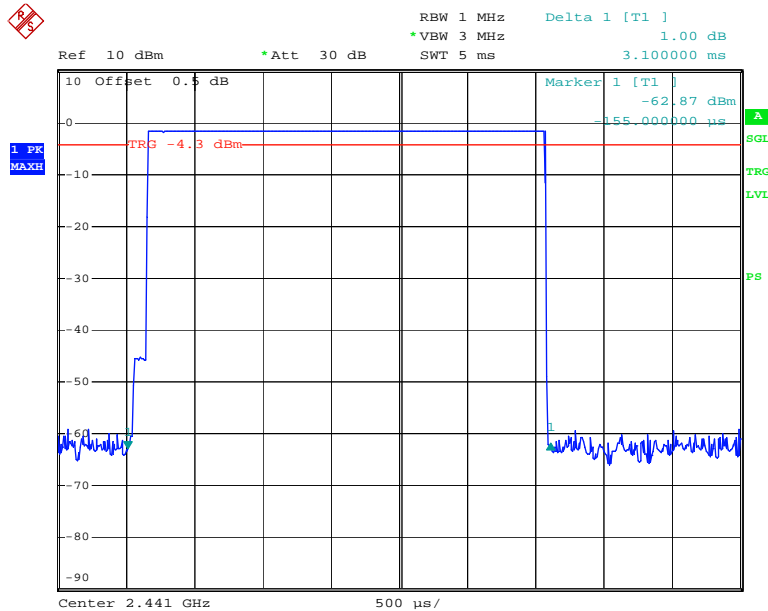
Date: 21.JAN.2010 09:37:59

Low Channel for DH5



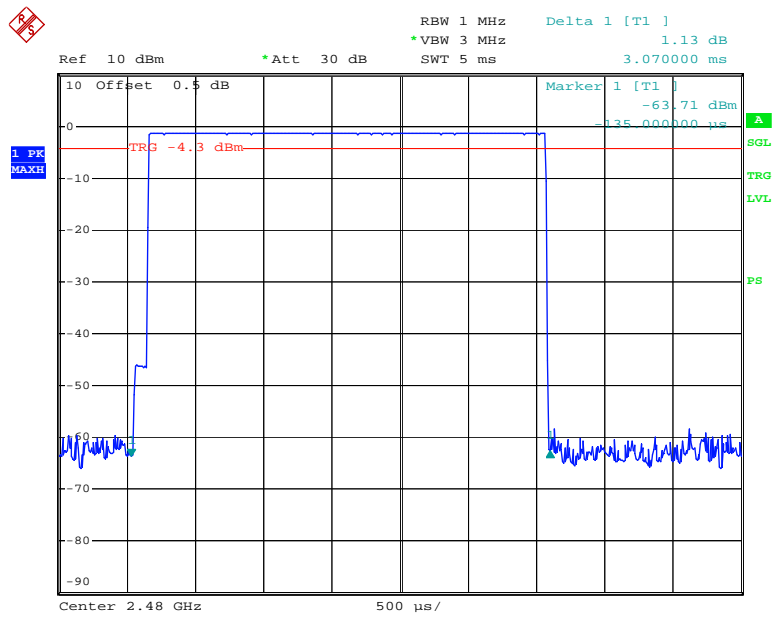
Date: 21.JAN.2010 09:34:08

Middle Channel for DH5



Date: 21.JAN.2010 09:32:46

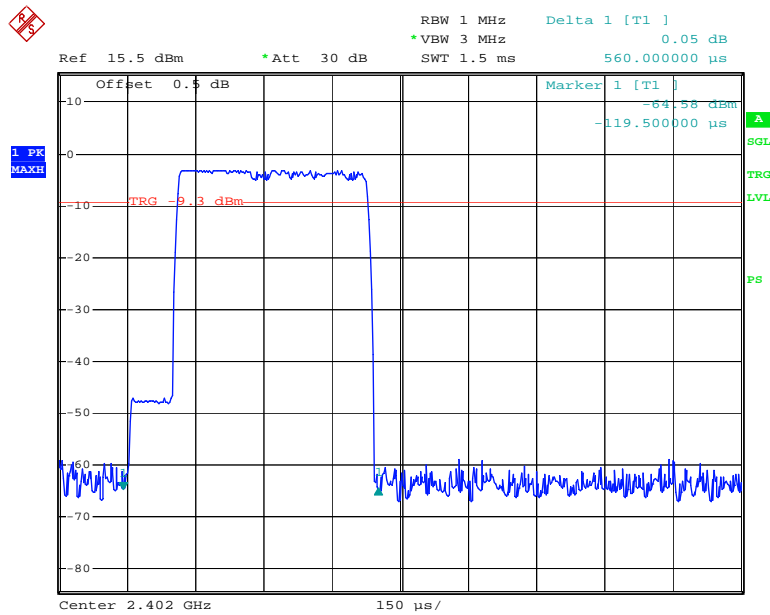
High Channel for DH5



Date: 21.JAN.2010 09:30:52

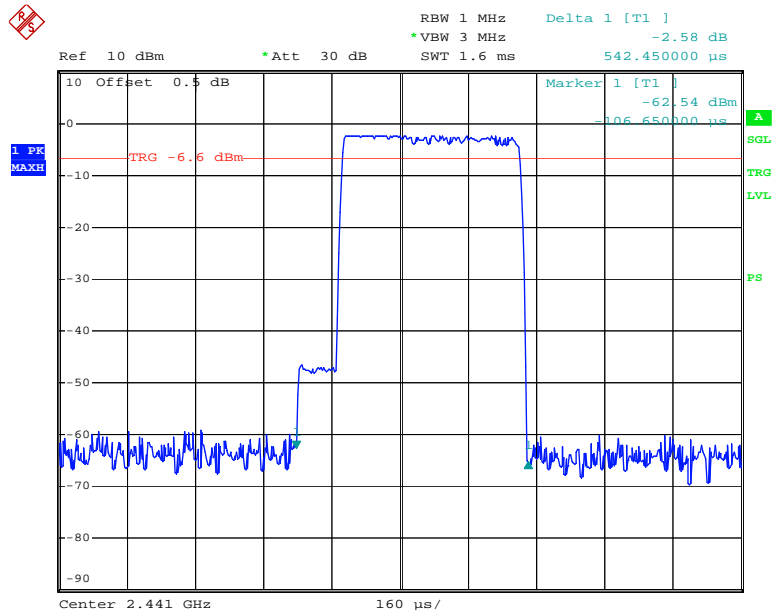
EDR

Low Channel for DH1



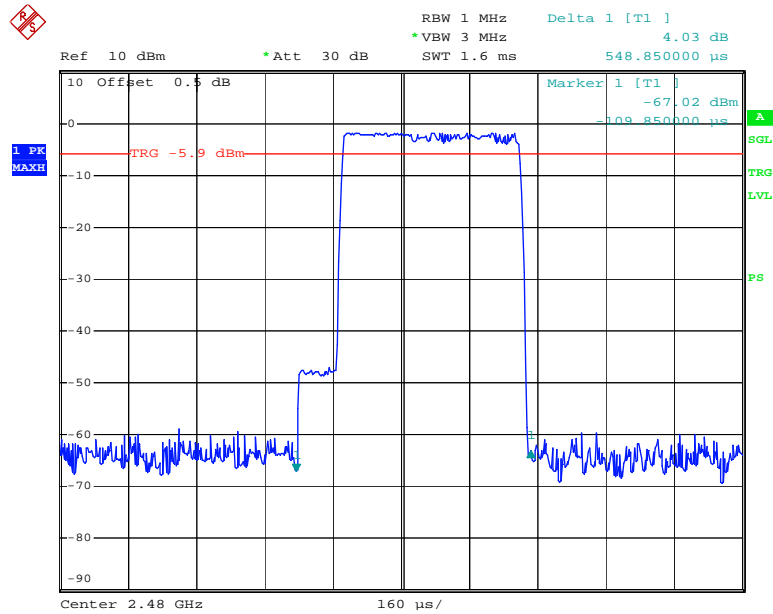
Date: 21.JAN.2010 08:55:22

Middle Channel for DH1



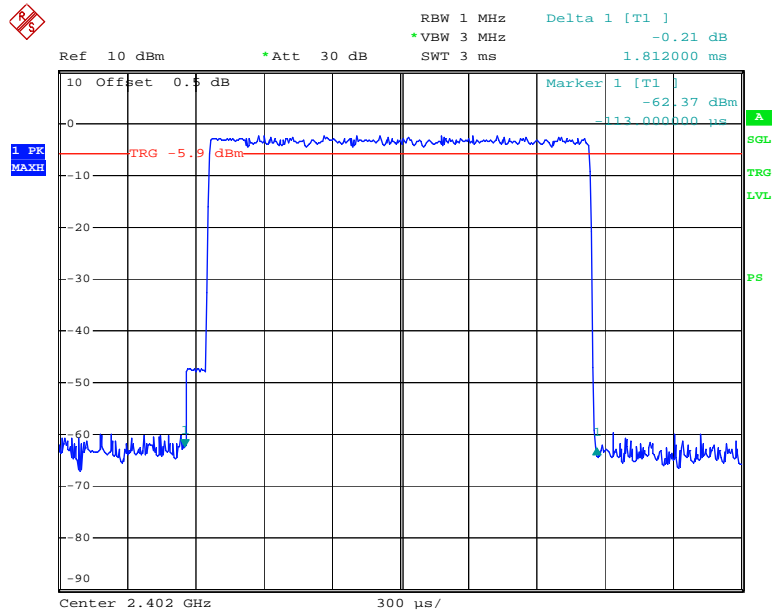
Date: 21.JAN.2010 09:14:21

High Channel for DH1



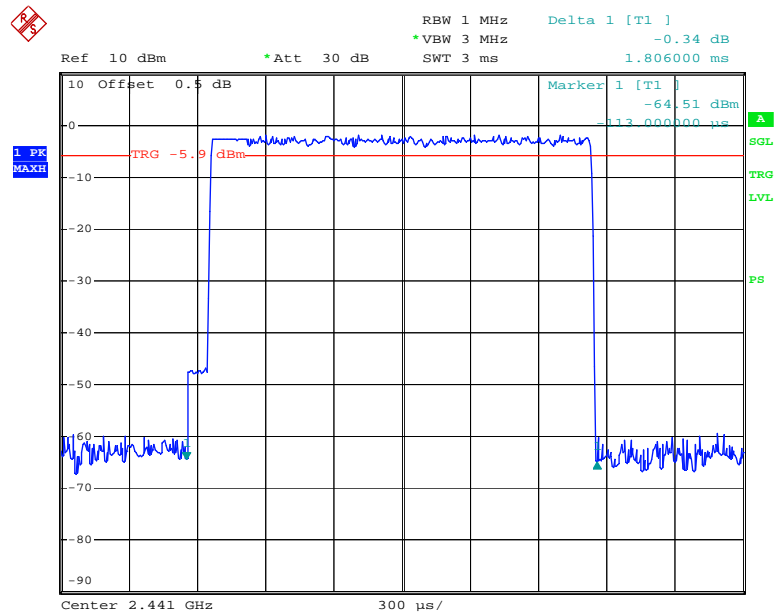
Date: 21.JAN.2010 09:16:20

Low Channel for DH3



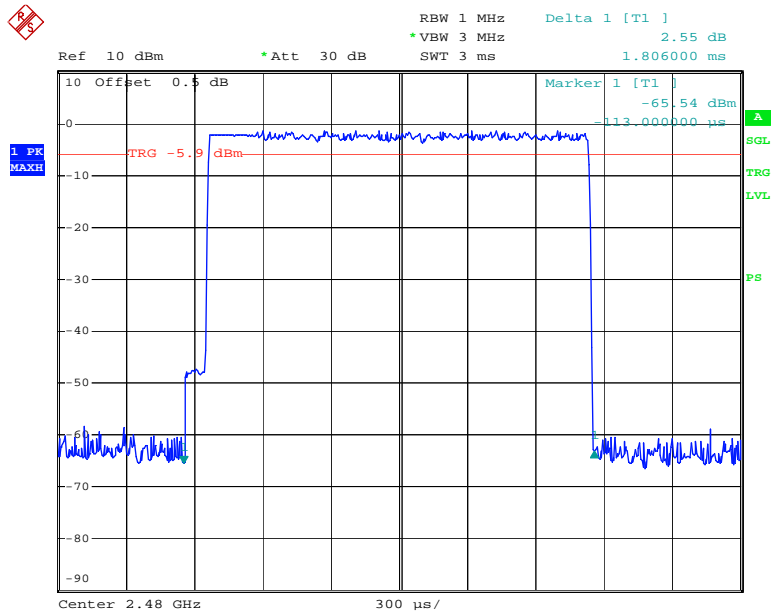
Date: 21.JAN.2010 09:20:59

Middle Channel for DH3



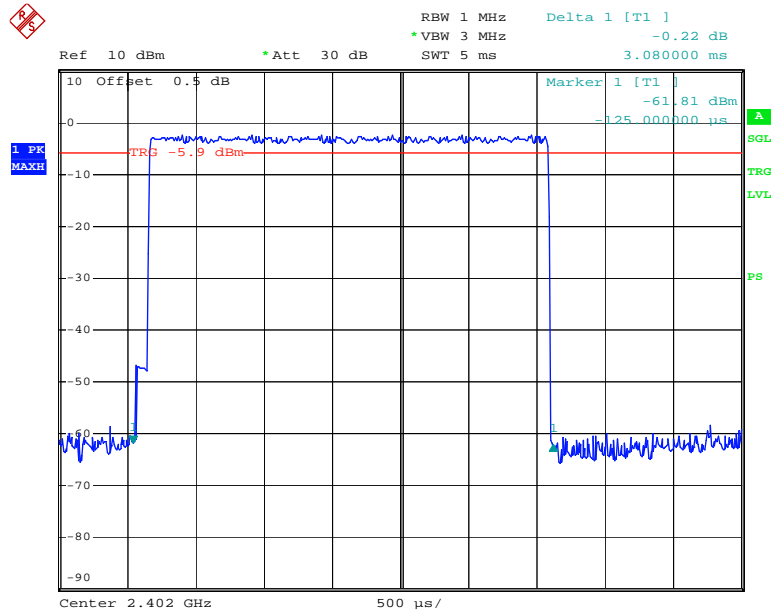
Date: 21.JAN.2010 09:18:40

High Channel for DH3



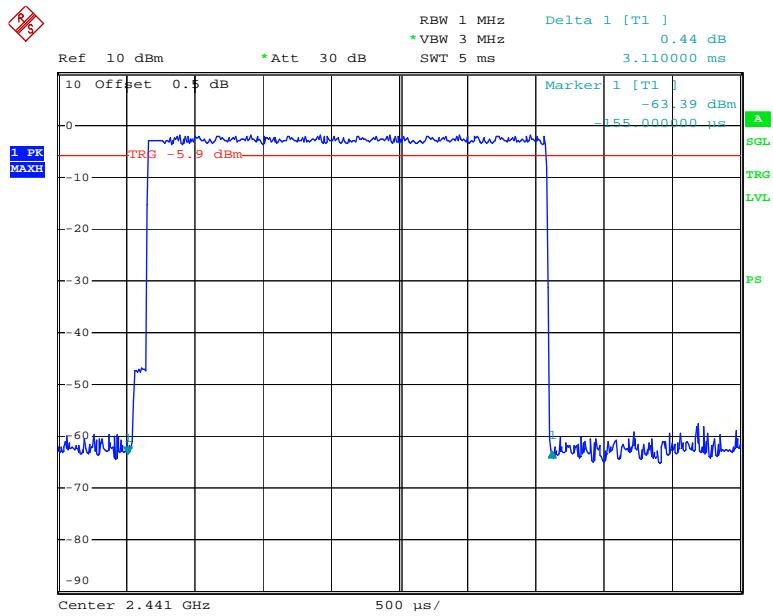
Date: 21.JAN.2010 09:17:31

Low Channel for DH5



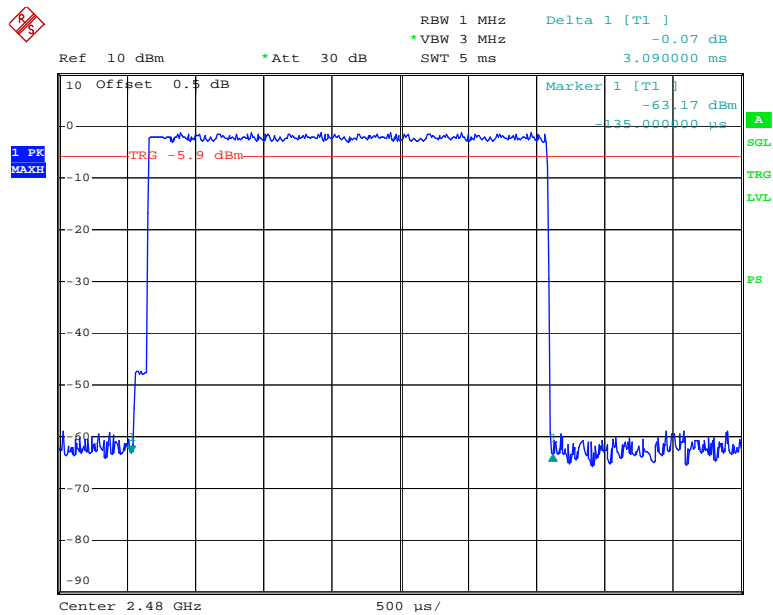
Date: 21.JAN.2010 09:22:38

Middle Channel for DH5



Date: 21.JAN.2010 09:23:46

High Channel for DH5



Date: 21.JAN.2010 09:24:41

CFR47 §15.247(b)(1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

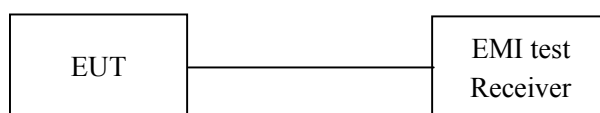
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

* The testing was performed by Cookies Bu on 2010-01-21.

Test Result: Compliant.

Test Mode: Transmitting (BDR)

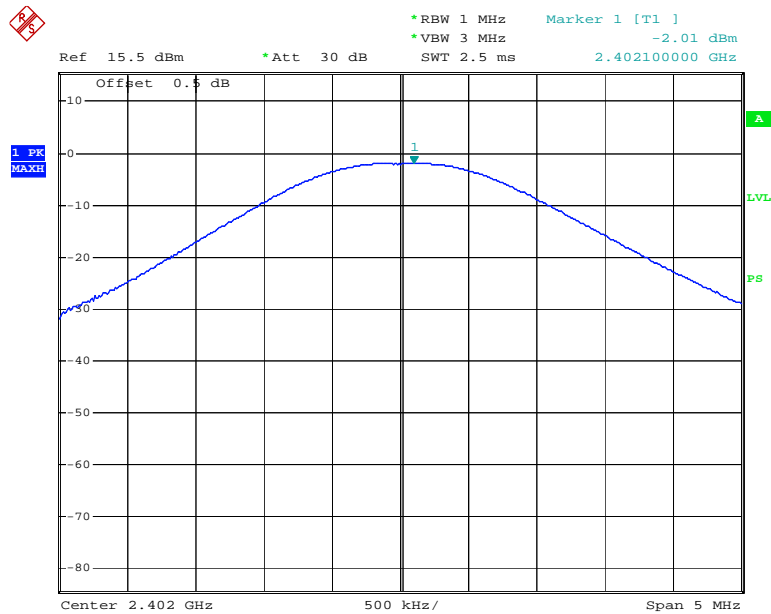
Channel	Channel frequency (MHz)	Reading power output (dBm)	Power output (mW)	Limit (mW)
Low	2402	-2.01	0.630	1000
Middle	2441	-1.33	0.736	1000
High	2480	-0.73	0.845	1000

Test Mode: Transmitting (EDR)

channel	Channel frequency (MHz)	Reading power output (dBm)	Power output (mW)	Limit (mW)
Low	2402	-2.20	0.603	1000
Middle	2441	-1.74	0.670	1000
High	2480	-1.01	0.793	1000

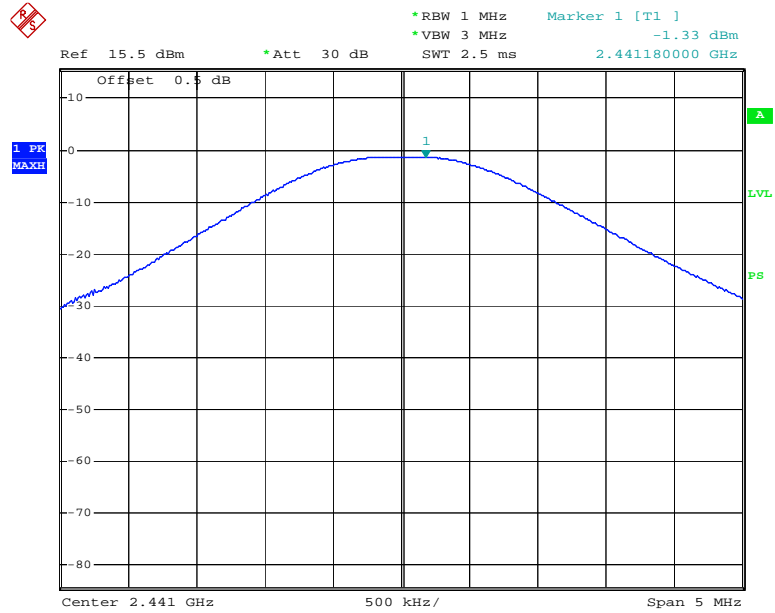
BDR:

Low Channel



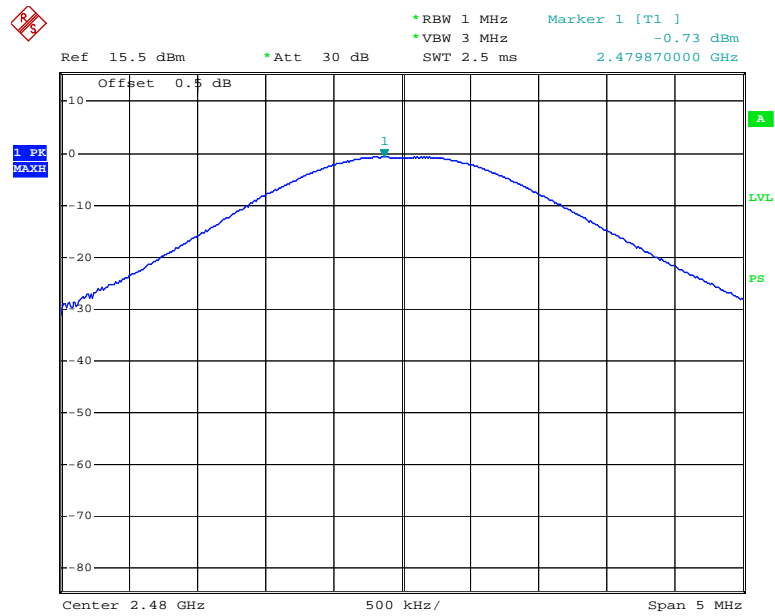
Date: 21.JAN.2010 05:17:52

Middle Channel



Date: 21.JAN.2010 05:18:26

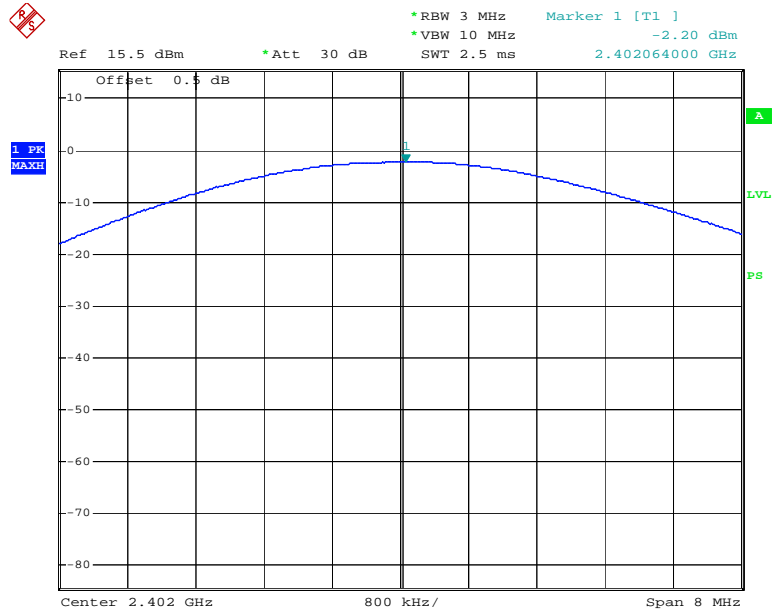
High Chanel



Date: 21.JAN.2010 05:18:59

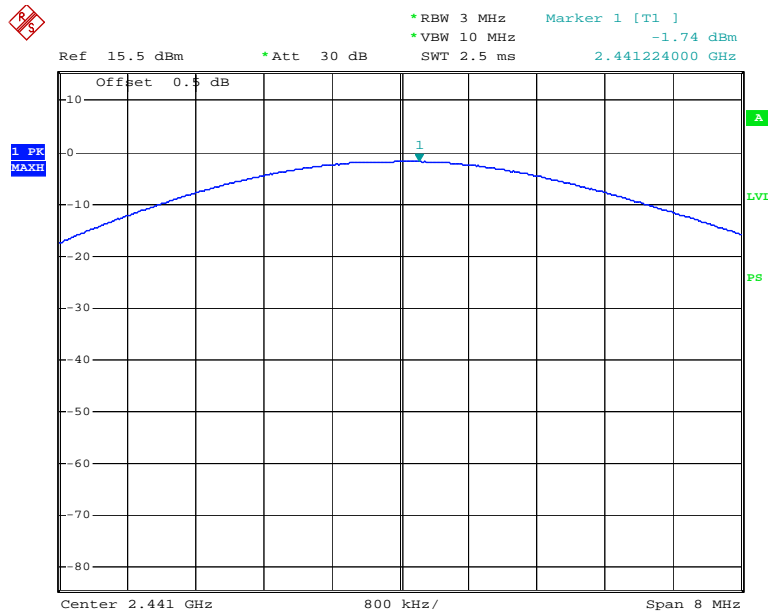
EDR:

Low Channel



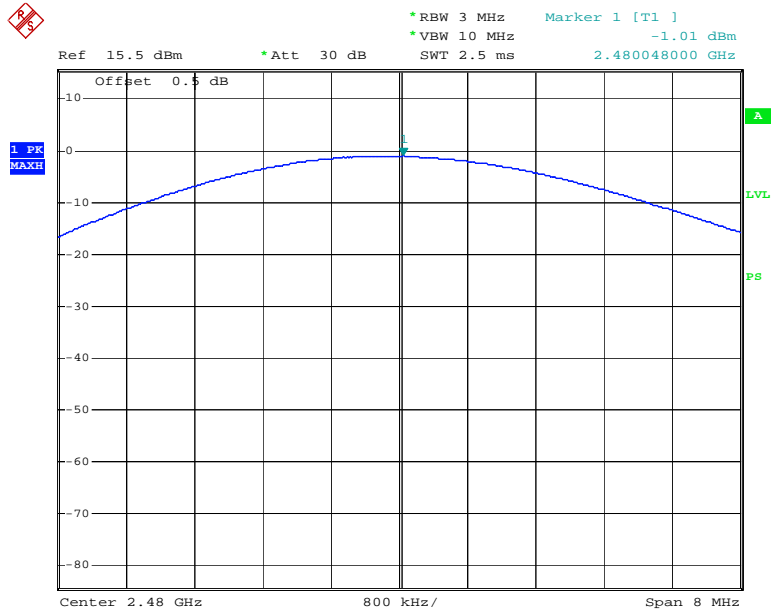
Date: 21.JAN.2010 07:29:33

Middle Channel



Date: 21.JAN.2010 07:30:14

High Chanel



Date: 21.JAN.2010 07:39:52

CFR47 §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2009-11-07	2010-11-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1 MHz, VBW=3 MHz.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data**Environmental Conditions**

Temperature:	26 °C
Relative Humidity:	56 %
ATM Pressure:	100.9 kPa

**The testing was performed by Cookies Bu on 2010-01-21*

Test Result: Compliant

Please refer to the following table and plots.

Test Mode: Transmitting (BDR)

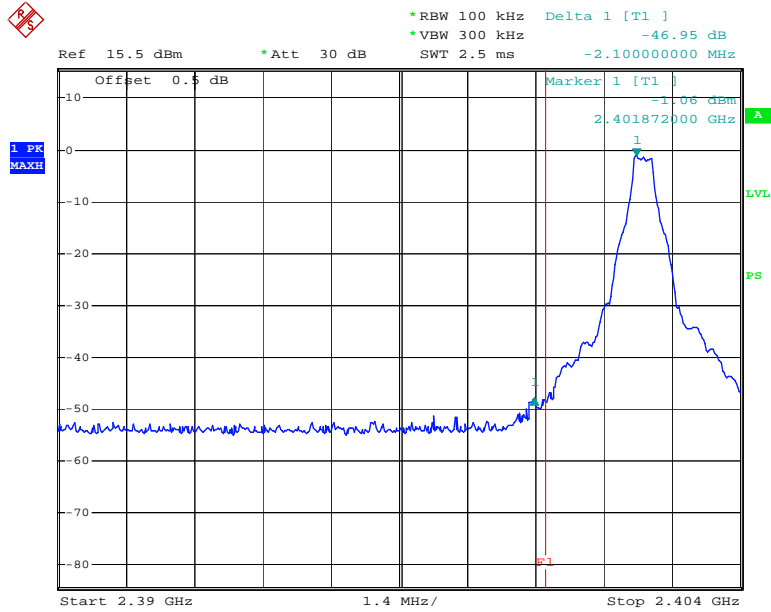
Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
2399.772	46.95	20
2494.456	50.92	20

Test Mode: Transmitting (EDR)

Frequency (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)
2399.672	48.40	20
2483.956	48.39	20

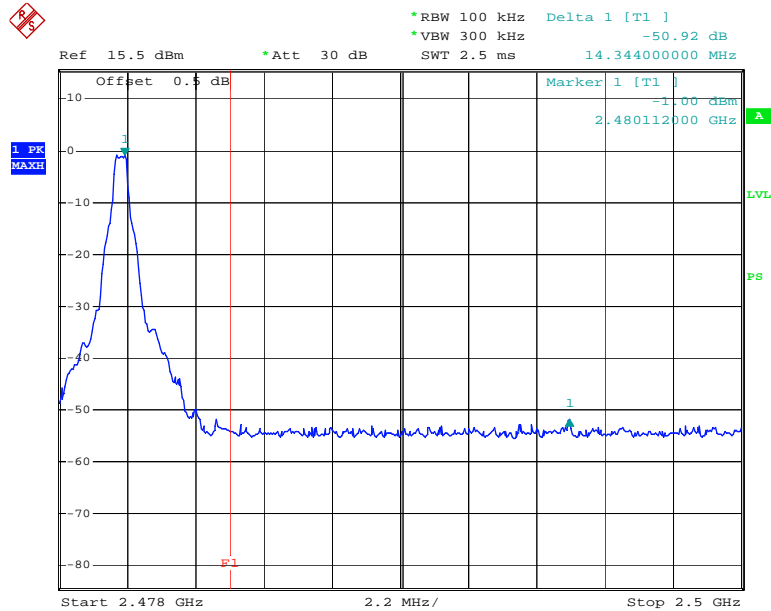
BDR:

Band Edge: Left Side



Date: 21.JAN.2010 05:40:03

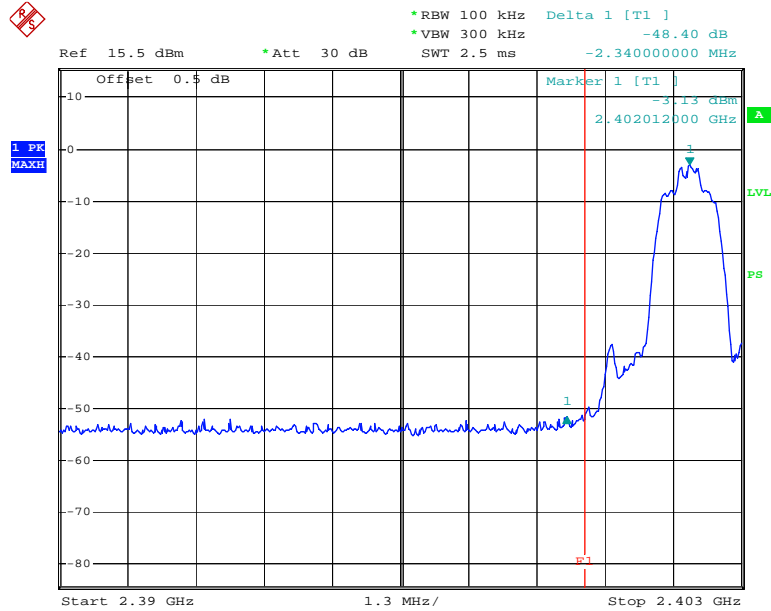
Band Edge: Right Side



Date: 21.JAN.2010 05:41:18

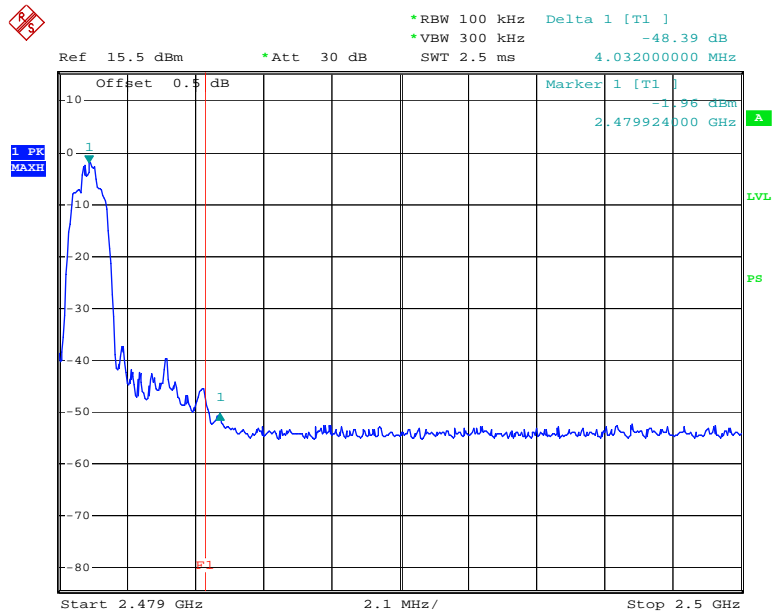
BDR:

Band Edge: Left Side



Date: 21.JAN.2010 08:06:00

Band Edge: Right Side



Date: 21.JAN.2010 08:08:25

DECLARATION LETTER

suigen

Company Address: No.10 Longxing road,Dakang Long Village,Henggang Town ,Shenzhen, China
Tel: 86-0755-28657516
Fax: 0755-28657521

Product Similarity Declaration

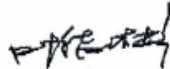
To Whom It May Concern,

We, Shenzhen Shuaixian Electronic Equipment Co., Ltd., hereby declare that our BLUETOOTH HEADSET, Model Numbers: SX-918、SX-926、SX-927、SX-923、SX-905、SX-907、SX-908、SX-909、SX-910、SX-912、SX-922、SX-928、SX-929、SX-930、SX-935、SX-936、SX-937、SX-939 are electrically identical with the Model Number: SX-919 that was certified by BAEL. They are named differently due to marketing purposes.

Please contact me if you have any question.

Signature:

Print Name: Jiebin Ye



Title: Vice Manager

Date:2010-1-26

******* END OF REPORT *******