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FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4: 2003

TEST REPORT

For

CORDLESS TELEPHONE

Model: T7406E

Trade Name: Nortel

Issued for

TECOM CO., LTD.

23, R&D ROAD 2, SCIENCE-BASED INDUSTRIAL PARK,

HSIN-CHU, TAIWAN, R.O.C.

Issued by

Compliance Certification Services Inc. Hsinchu Lab.

NVLAP LAB CODE 200118-0

Rm. 258, Bldg. 17, NO.195, Sec.4 Chung HsingRd., ChuTung Chen, Hsinchu, Taiwan 310, R.O.C

TEL: (03) 591-0068 FAX: (03) 582-5720



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1. TEST REPORT CERTIFICATION

Applicant : TECOM CO., LTD.

Address : 23, R&D ROAD 2, SCIENCE-BASED INDUSTRIAL PARK,

HSIN-CHU, TAIWAN, R.O.C.

Equipment Under Test: CORDLESS TELEPHONE

: T7406E Model

Trade Name : Nortel

Tested Date : June 14 ~ July 20, 2007

APPLICABLE STANDARD		
STANDARD TEST RESULT		
FCC Part 15 Subpart C:2006 AND ANSI C63.4:2003	No non-compliance noted	

Approved by:

Reviewed by:

S. B. Lu

Assistant Manager of Hsinchu Laboratury Compliance Certification Services Inc.

5.B.L

Chang

專用章 Test ingineer of Hsinehu Laboratory my iance Certification Services Inc.

WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

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2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

Product Name	CORDLESS TELEPHONE	
Model Number	T7406E	
Frequency Range	2401.920MHz to 2478.816MHz	
Transmit Power	Base Station: 19.65dBm	
Transmit Power	Headset: 20.65dBm	
Channel Spacing	864kHz	
Channel Number	90	
Air Data Rate	FHSS (576kbits/s)	
Type of Modulation	Frequency Hopping Spread Spectrum	
Frequency Selection	by software / firmware	
Transmitter Classification	portable device	
Antonno Tyno	Base Station : Omni-directional Antenna, Antenna Gain : 3dBi	
Antenna Type	Headset: Embedded Antenna, Antenna Gain: -0.34dBi	
Dower Course	Base Station : 9VDC (From Adapter)	
Power Source	Headset: 3.6VDC (From Battery)	

Power Adapter:

No.	Manufacturer	Model No.	Power Input	Power Output
1	LEADER ELECTRONICS INC.	MU12-2090060-A1	100-240V, 50/60Hz, 0.5A	9V, 0.6A

Remark : For more details, please refer to the User's manual of the EUT.

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3. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2401.920
Middle	2441.664
High	2478.816

Mode: 576kbits data rate (worst case) were chosen for full testing.

Note: After the preliminary san all the data rates, we found the test mode(s) producing the highest emission level, so evaluated we chosen the above modes (worst case) as a representative.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Rm.258, Bldg.17, NO.195, Sec. 4, Chung Hsing Rd., Chu-Tung Chen. Hsin-Chu, Taiwan 310 R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200118-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: 90585 and 90584).

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5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP	EN 55014-1, AS/NZS 1044, CNS 13783-1, IEC/CISPR 14-1, IEC/CISPR 22, EN 55022, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, AS/NZS CISPR 22, AS/NZS 3548, IEC 61000-4-2/3/4/5/6/8/11	200118-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 90585, 90584
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-1229/1189 C-1250/1294
Taiwan	TAF	FCC Method-47 CFR Part 15 Subpart C,D,E CISPR 11, FCC METHOD-47 CFR Part 18, EN 55011, CNS 13803, CISPR 13, CNS 13439, FCC Method-47 CFR Part 15 Subpart B, CISPR 14-1, EN 55014-1, CNS 13783-1, EN 55015, CNS 14115, CISPR 22, EN 55022, VCCI CNS 13438, EN 61000-4-2/3/4/5/6/8/11	Testing Laboratory 0240
Taiwan	BSMI	CNS 13803, CNS 13438, CNS 13439, CNS 13783-1, CNS 14115	SL2-IS-E-0002 SL2-IN-E-0002 SL2-A1-E-0002 SL2-R1-E-0002 SL2-R2-E-0002 SL2-L1-E-0002
Canada	Industry Canada	RSS212, Issue 1	Canada IC 4417-1

^{*} No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

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6. CALIBRATION AND UNCERTAINTY

6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 1000 MHz	+/- 3.2 dB
Radiated Emission, 1 to 26.5GHz	+/- 3.2 dB
Power Line Conducted Emission	+/- 2.1 dB

Uncertainty figures are valid to a confidence level of 95%

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7. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Business Communications Manager 50	Nortel	BCM50		DoC

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

- 1. Switch on the power of the host.
- 2. Switch on the power of the Base Station.
- 3. Put the battery into the handset, press the "Talk" key to verify whether the handset communicates the Base Station.
- 4. Using the input setting of the handset to make the handset transmitting the channel which
- 5. is required to be tested.

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8. APPLICABLE LIMITS AND TEST RESULTS

8.1 20dB BANDWIDTH FOR HOPPING

LIMIT

Limit: N/A

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007

TEST SETUP



TEST PROCEDURE

The 20dB band width was measured with a spectrum analyzer connected to RF antenna connector(conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer. Display Line and Marker Delta functions, the 20dB band width of the emission was determined.

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TEST RESULTS

No non-compliance noted

Base Station:

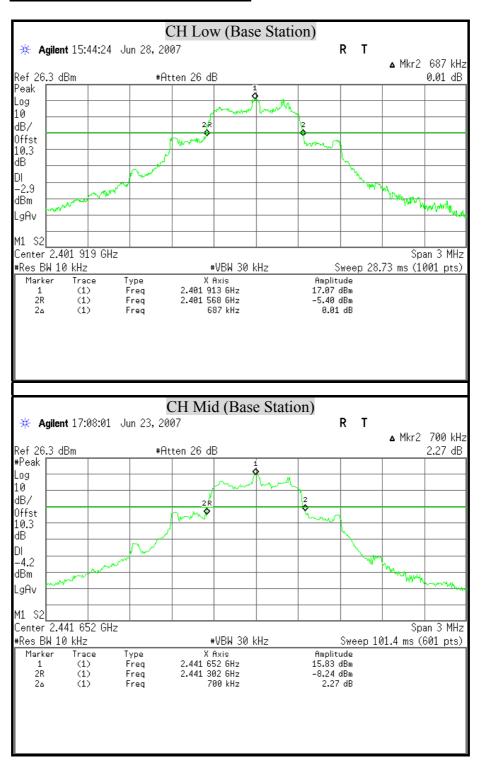
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Pass / Fail
Low	2401.920	687	N/A
Middle	2441.664	700	N/A
High	2478.816	685	N/A

Headset:

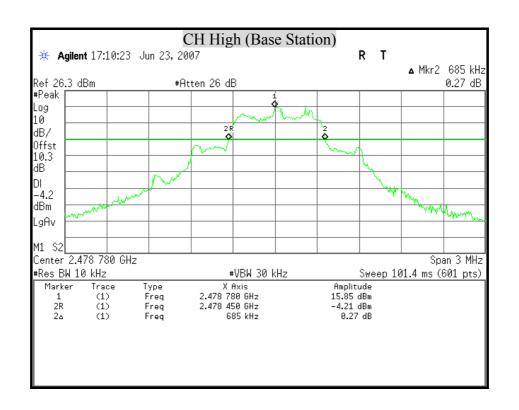
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Pass / Fail
Low	2401.920	670	N/A
Middle	2441.664	670	N/A
High	2478.816	655	N/A

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20dB BANDWIDTH (Base Station)

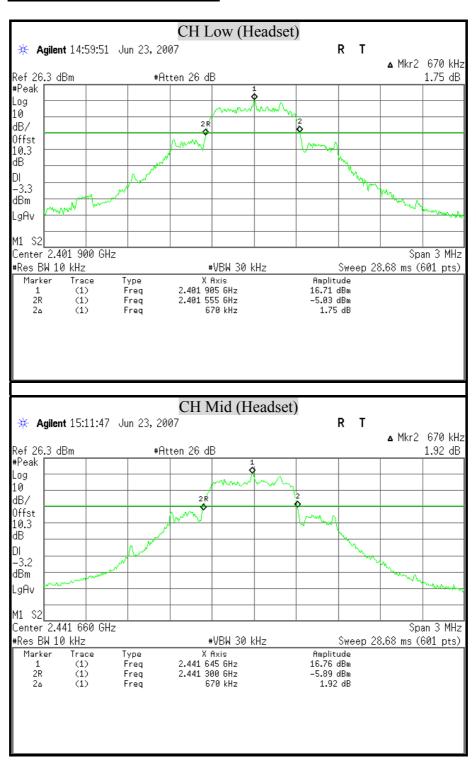


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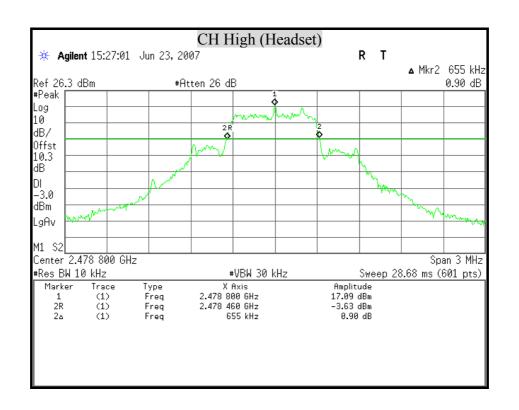


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20dB BANDWIDTH (Headset)



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8.2 MAXIMUM PEAK OUTPUT POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. 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 125 mW.
- 2. 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. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 3. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007

TEST SETUP



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TEST PROCEDURE

The RF power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency, A spectrum analyzer was used to record the shape of the transmit signal.

TEST RESULTS

No non-compliance noted

Base Station:

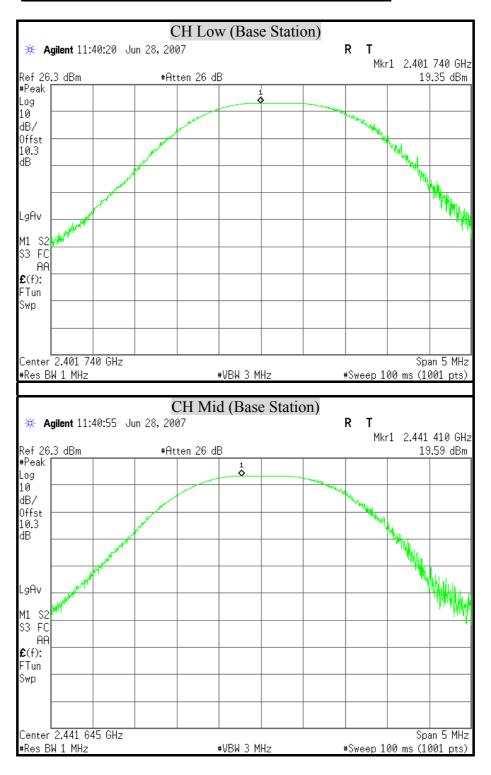
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (W)	Peak Power Limit (W)	Pass / Fail
Low	2401.920	19.35	0.08609	1.00	PASS
Middle	2441.664	19.59	0.09099	1.00	PASS
High	2478.816	19.65	0.09225	1.00	PASS

Headset:

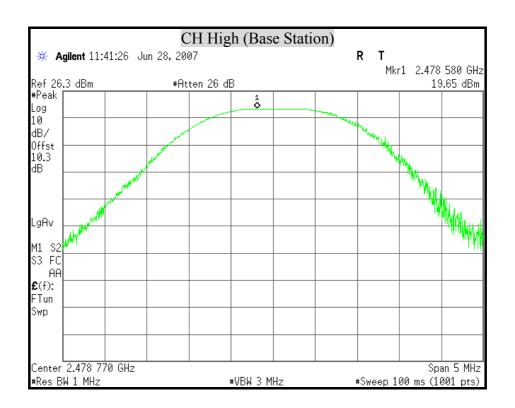
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (W)	Peak Power Limit (W)	Pass / Fail
Low	2401.920	20.53	0.11298	1.00	PASS
Middle	2441.664	20.65	0.11614	1.00	PASS
High	2478.816	20.46	0.11173	1.00	PASS

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MAXIMUM PEAK OUTPUT POWER (Base Station)

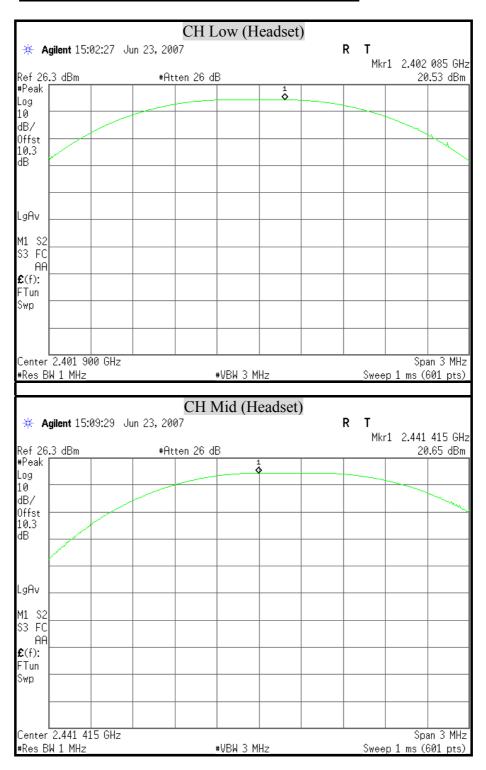


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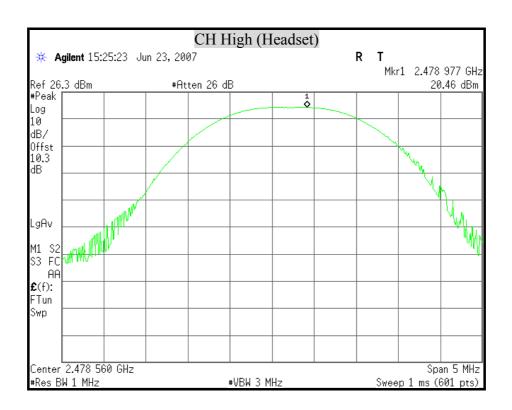


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MAXIMUM PEAK OUTPUT POWER (Headset)



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8.3 MAXIMUM PERMISSIBLE EXPOSURE

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate theenvironment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time	
	(A) Limits for Oc	ecupational / Contro	l Exposures		
300-1,500			F/300	6	
1,500-100,000			5	6	
	(B) Limits for General Population / Uncontrol Exposures				
300-1,500			F/1500	6	
1,500-100,000			1	30	

CALCULATIONS

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Where

d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW/cm^2$

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LIMIT

Power Density Limit, S=1.0mW/cm²

TEST RESULTS

No non-compliance noted

Base Station:

Minimum separation distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	Power Density Limit (mW/cm ²)	Power Density at 20cm (mW/cm ²)
20.0	19.65	3.0	1.00	0.036621

Remark: For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.



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8.4 HOPPING CHANNEL SEPARATION

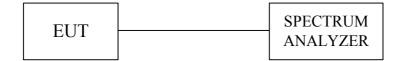
LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007

TEST SETUP



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW = 30kHz, VBW = 100kHz, Span = 3MHz, Sweep = auto.
- 5. Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency.

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TEST RESULTS

No non-compliance noted

Refer to section 7.1, 20dB bandwidth measurement, the measured channel separation should be greater 20dB bandwidth or Minimum bandwidth.

Base Station:

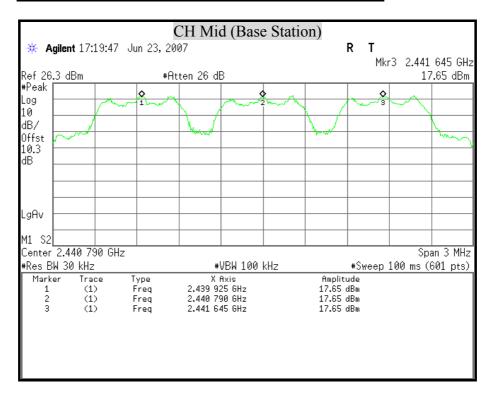
Channel	Adjacent Hopping Channel Separation (kHz)	20dB bandwidth (kHz)	Minimum Bandwidth (kHz)	Result
2441.664MHz (Mid)	865	570	25	PASS

Headset:

Channel	Adjacent Hopping Channel Separation (kHz)	20dB bandwidth (kHz)	Minimum Bandwidth (kHz)	Result
2441.664MHz (Mid)	865	570	25	PASS

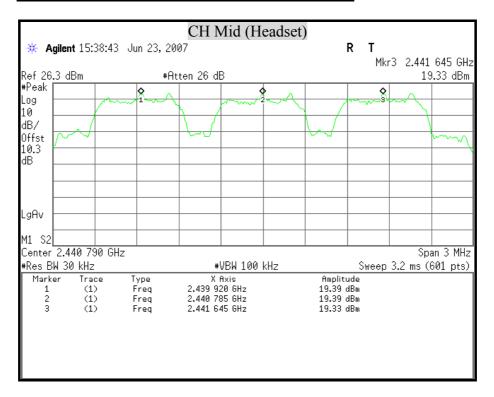
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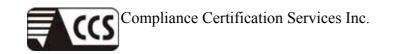
HOPPING CHANNEL SEPARATION (Base Station)



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HOPPING CHANNEL SEPARATION (Headset)





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8.5 NUMBER OF HOPPING FREQUENCY USED

LIMIT

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. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007

TEST SETUP



TEST PROCEDURE

- 1 Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- 2 Position the EUT as shown in test setup without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- 3 Set the spectrum analyzer on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- 4 Set the spectrum analyzer on View mode and then plot the result on spectrum analyzer screen.
- 5 Repeat above procedures until all frequencies measured were complete.

TEST RESULTS

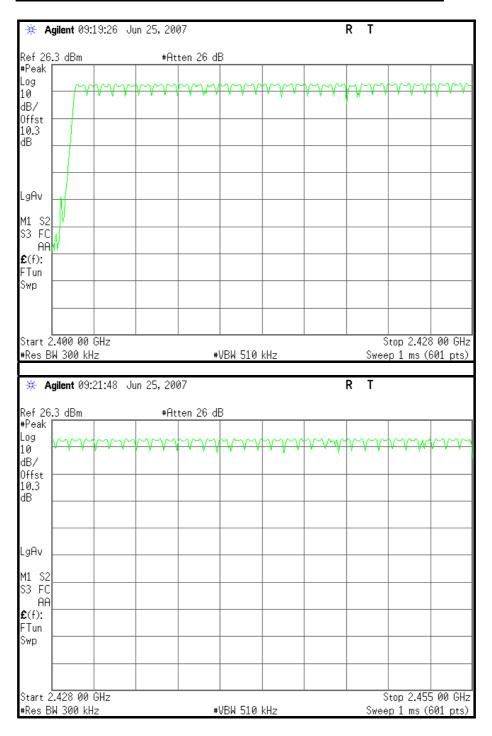
No non-compliance noted

Refer to the attached plot.

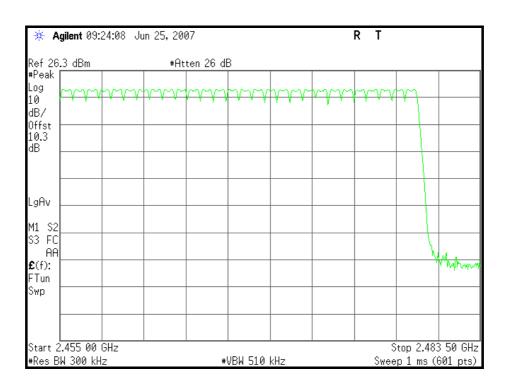
There are 90 hopping frequencies in a hopping sequence.

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NUMBER OF HOPPING FREQUENCY USED (Base Station)

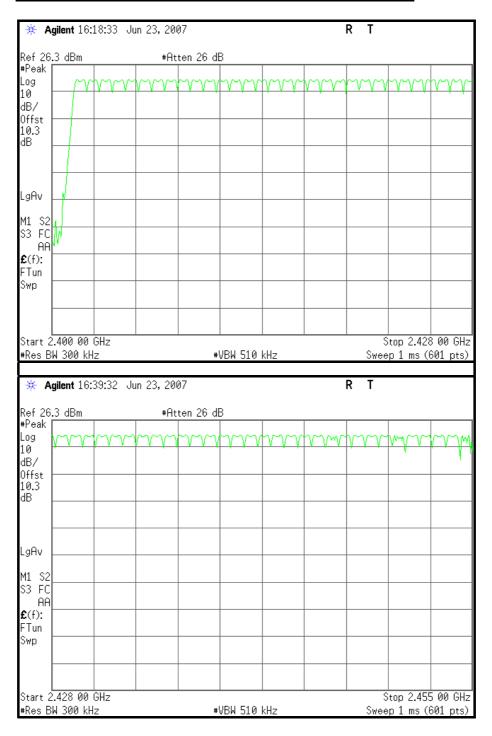


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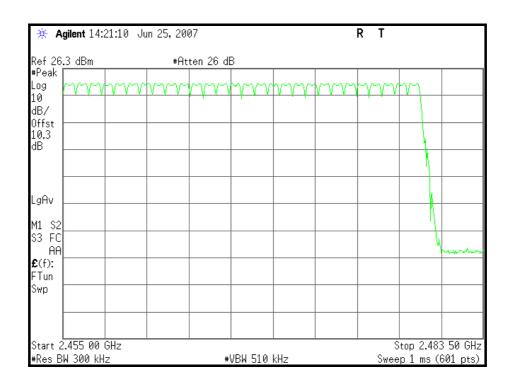


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NUMBER OF HOPPING FREQUENCY USED (Headset)



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8.6 DWELL TIME ON EACH CHANNEL

LIMIT

§15.247(a)(1)(iii) For frequency hopping system operating in the 2400-2483.5MHz band, the average time of occupancy on any frequency shall not be greater than 0.4 second within a 36 second period.

TEST EQUIPMENT

Description & Manufacturer	Model No.	Serial No.	Date of Calibration
ROHDE & SCHWARZ SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007

TEST SETUP



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 as shown in test setup without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- 3. Adjust the center frequency of spectrum analyzer on any frequency be measured and set spectrum analyzer to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- 4. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- 5. Repeat above procedures until all frequencies measured were complete.

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TEST RESULTS

No non-compliance noted

Refer to the attached graph.

Base Station:

Transmitting Frequency	Dwell time (ms)	Limit for Time of occupancy on the TX channel in 36sec (ms)	Results
2479.017MHz	108.7	400	PASS

Dwell time = 755.2u*4*36=0.1087

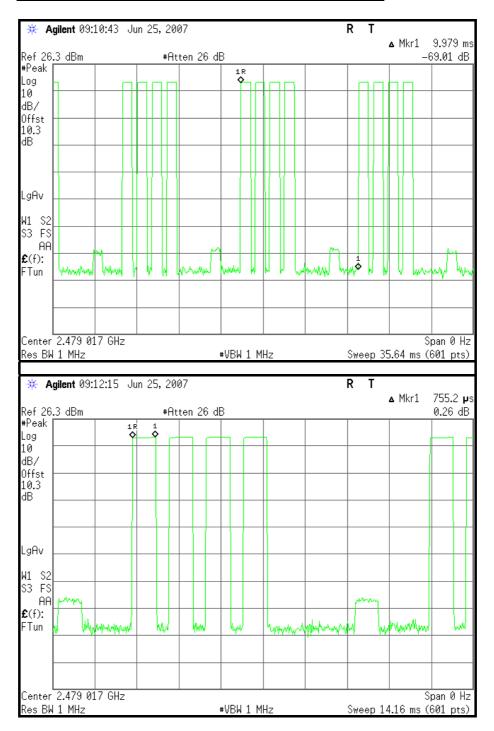
Headset:

Transmitting Frequency	Dwell time (ms)	Limit for Time of occupancy on the TX channel in 36sec (ms)	Results
2401.920MHz	27	400	PASS

Dwell time = 766.3u*36=0.0275868

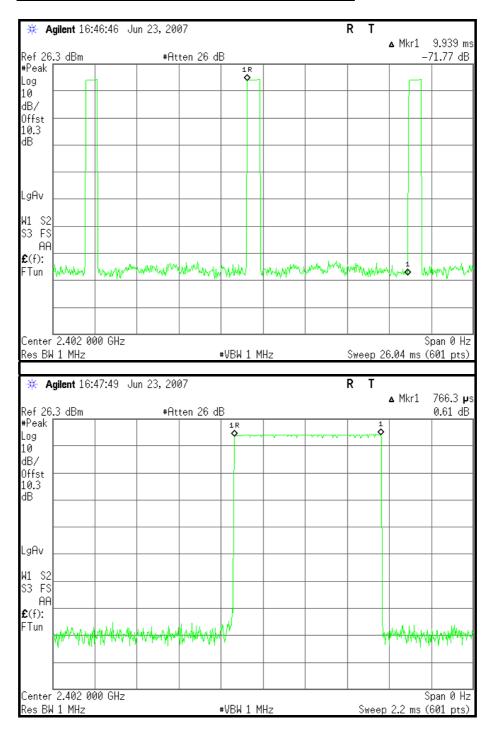
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DWELL TIME ON EACH PAYLOAD (Base Station)



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DWELL TIME ON EACH PAYLOAD (Headset)



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8.7 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 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 PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

TEST RESULTS

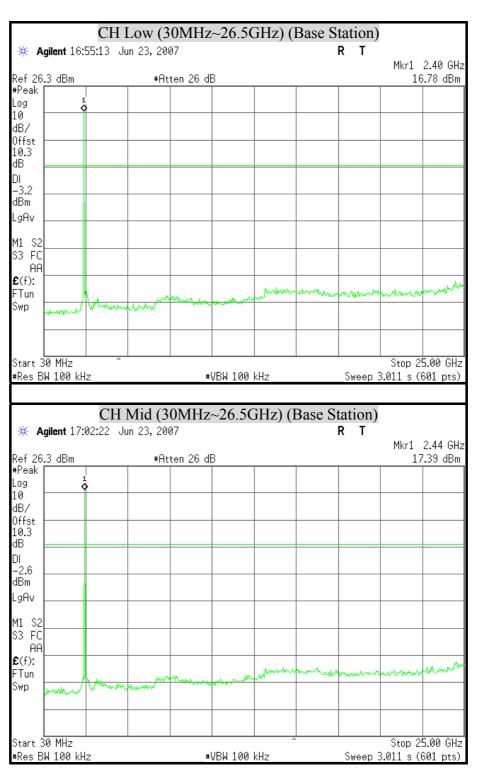
No non-compliance noted



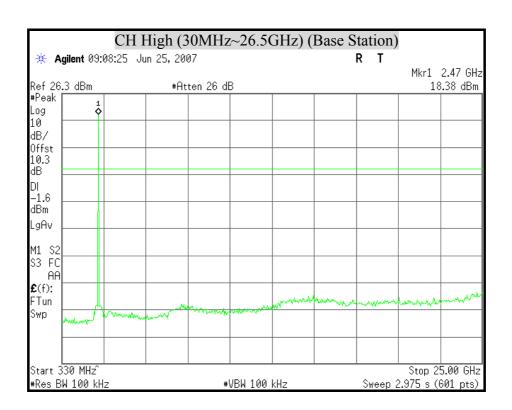
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BAND EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS (Base Station)

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT



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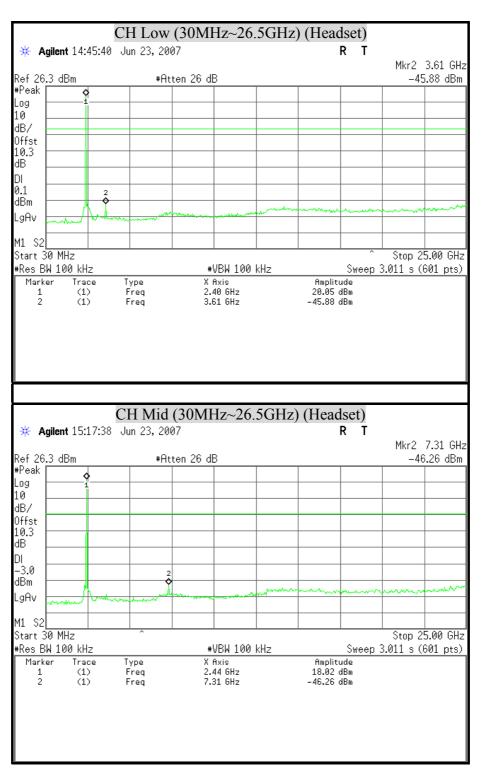




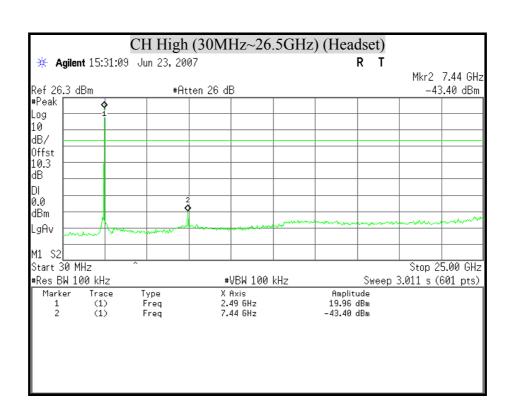
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BAND EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS (Headset)

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT



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8.8 RADIATED EMISSIONS

8.8.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

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§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

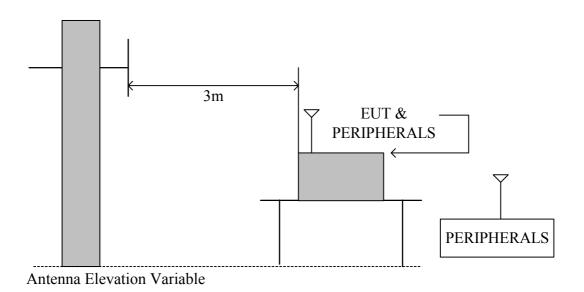
The following test equipment is utilized in making the measurements contained in this report.

Manufacturer or Type	Model No.	Serial No.	Date of Calibration	Calibration Period	Remark
CHASE BILOG ANTENNA	CBL6112B	2817	August 28, 2006	1 Year	FINAL
R/S SPECTRUM ANALYZER	FSEK30	835253/002	October 18, 2006	1 Year	FINAL
AGILENT SPECTRUM ANALYZER	E4446A	MY433601.32	June 06, 2007	1 Year	FINAL
R/S EMI TEST RECEIVER	ESCS30	835418/008	September 02, 2006	1 Year	FINAL
OPEN SITE		No.2	May 07, 2007	1 Year	FINAL
BELDEN N TYPE COAXIAL CABLE	9913-30M	002	August 21, 2006	1 Year	FINAL
Horn Antenna	AH-118	10089	August 30, 2006	1 Year	FINAL
Horn Antenna	AH-840	03077	February 25, 2007	1 Year	FINAL
Agilent Pre-amplifier	8449B	3008A01471	December 25, 2006	1 Year	FINAL
HP Amplifier	8447D	1937A02748	December 25, 2006	1 Year	FINAL
HP High pass filter	84300/80038	002	CAL. ON USE	1 Year	FINAL
HP High pass filter	84300/80039	003	CAL. ON USE	1 Year	FINAL
Loop Antenna ETS-LINDGREN	6502	2356	June 15, 2007	1 Year	FINAL

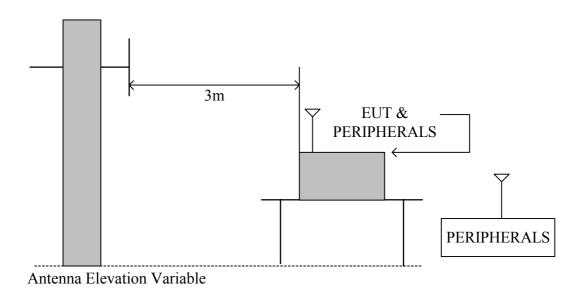
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TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



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TEST PROCEDURE

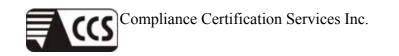
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. White measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. White measuring the radiated emission above 1GHz, the EUT was set 1 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

No non-compliance noted



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8.8.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

Product Name	CORDLESS TELEPHONE	Test Date	2007/06/28
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH Low TX / Base Station	TEMP & Humidity	22°C, 54%

		Hor	rizontal polarit	V		
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Mark (P/Q/A)
103.72	52.32	-17.31	35.01	43.50	-8.49	P
145.43	48.90	-13.48	35.41	43.50	-8.09	P
227.88	54.30	-15.31	39.00	46.00	-7.00	P
311.30	53.85	-12.74	41.11	46.00	-4.89	Q
415.09	39.24	-11.19	28.06	46.00	-17.94	P
746.83	32.80	-5.17	27.63	46.00	-18.37	P
			ertical polarity			
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Mark (P/Q/A)
38.73	50.20	-14.71	35.49	40.00	-4.51	Q
68.80	53.64	-17.19	36.45	40.00	-3.55	Q
145.43	51.27	-13.48	37.79	43.50	-5.71	P
311.30	50.68	-12.74	37.94	46.00	-8.06	P
455.83	44.82	-10.38	34.44	46.00	-11.56	P
539.25	42.32	-9.22	33.10	46.00	-12.90	P

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Quasi-peak \ limit(dBuV/m)$.

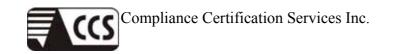
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8.8.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH Low TX / Base Station	TEMP & Humidity	22°C, 54%

	Horizontal polarity								
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4807.50	62.48	40.26	3.90	66.38	44.16	74.00	54.00	-9.84	A
7207.50	43.54		5.90	49.44		74.00	54.00	-24.56	P
9607.50	37.95		8.40	46.35		74.00	54.00	-27.65	P
12007.50	39.35		12.11	51.46		74.00	54.00	-22.54	P
14415.00	39.54	30.47	14.62	54.16	45.09	74.00	54.00	-28.91	Α
16815.00	39.17	29.13	15.50	54.67	44.63	74.00	54.00	-9.37	Α
			7	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
3600.00	41.51		2.06	43.56		74.00	54.00	-30.44	P
4800.00	60.59	39.47	3.90	64.49	43.37	74.00	54.00	-10.63	A
7207.50	56.95	37.13	5.90	62.85	43.03	74.00	54.00	-10.97	A
12007.50	52.84	31.57	12.11	64.95	43.68	74.00	54.00	-10.32	A
14415.00	40.89	29.85	14.62	55.51	44.47	74.00	54.00	-9.53	A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.

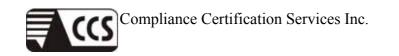


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Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH Middle TX / Base Station	TEMP & Humidity	22°C, 54%

			Но	orizontal p	olarity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
3172.50	41.14		1.63	42.77		74.00	54.00	-31.23	Р
4882.50	58.95	38.70	3.91	62.86	42.61	74.00	54.00	-11.39	A
7327.50	41.17		5.91	47.09		74.00	54.00	-26.91	P
12210.00	45.54	34.58	12.08	57.62	46.66	74.00	54.00	-7.34	A
14647.50	43.53	31.21	14.61	58.14	45.82	74.00	54.00	-8.18	A
17092.50	40.52	30.08	15.93	56.44	46.01	74.00	54.00	-7.99	A
	_		V	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4882.50	55.13	36.52	3.91	59.04	40.43	74.00	54.00	-13.57	A
7327.50	50.30	33.58	5.91	56.21	39.49	74.00	54.00	-14.51	A
12210.00	44.74	31.52	12.08	56.82	43.60	74.00	54.00	-10.40	A
14647.50	43.77	29.14	14.61	58.38	43.75	74.00	54.00	-10.25	A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.

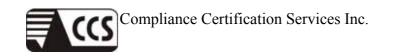


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Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH High TX / Base Station	TEMP & Humidity	22°C, 54%

	Horizontal polarity								
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4957.50	51.33	37.52	3.91	55.25	41.43	74.00	54.00	-12.57	A
12397.50	48.28	35.13	12.05	60.34	47.18	74.00	54.00	-6.82	A
14872.50	43.66	31.05	14.39	58.05	45.44	74.00	54.00	-8.56	A
17347.50	37.17	28.59	15.78	52.95	44.37	74.00	54.00	-9.63	A
			7	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4957.50	53.81	34.58	3.91	57.72	38.49	74.00	54.00	-15.51	A
7440.00	48.94	33.47	5.93	54.87	39.40	74.00	54.00	-14.60	A
12397.50	48.66	31.68	12.05	60.71	43.73	74.00	54.00	-10.27	A
14872.50	39.77	29.47	14.39	54.17	43.86	74.00	54.00	-10.14	A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.



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Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH Low TX / Headset	TEMP & Humidity	22°C, 54%

	Horizontal polarity								
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
3600.00	45.31		2.06	47.37		74.00	54.00	-26.63	P
4807.50	65.00	31.96	3.90	68.90	35.86	74.00	54.00	-18.14	A
7207.50	52.25	24.55	5.90	58.15	30.45	74.00	54.00	-23.55	A
9607.50	41.47		8.40	49.87		74.00	54.00	-24.13	P
12007.50	54.47	29.18	12.11	66.58	41.29	74.00	54.00	-12.71	A
14415.00	49.57	28.68	14.62	64.19	43.30	74.00	54.00	-10.70	A
16815.00	45.31	26.02	15.50	60.81	41.52	74.00	54.00	-12.48	A
			7	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4807.50	52.33	24.55	3.90	56.23	28.45	74.00	54.00	-25.55	A
7207.50	55.59	25.12	5.90	61.49	31.02	74.00	54.00	-22.98	A
9607.50	41.10		8.40	49.50		74.00	54.00	-24.50	P
12007.50	40.21	23.49	12.11	52.32	35.6	74.00	54.00	-18.4	A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.



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Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH Middle TX / Headset	TEMP & Humidity	22°C, 54%

	Horizontal polarity								
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
3660.00	42.80		2.20	45.00		74.00	54.00	-29.00	P
4882.50	65.06	31.49	3.91	68.97	35.40	74.00	54.00	-18.60	A
7327.50	43.74		5.91	49.65		74.00	54.00	-24.35	P
14647.50	50.10	28.77	14.61	64.71	43.38	74.00	54.00	-10.62	A
17092.50	45.93	24.32	15.93	61.86	40.25	74.00	54.00	-13.75	A
			7	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4882.50	52.57	32.59	3.91	56.48	36.50	74.00	54.00	-17.50	A
7327.50	48.40	29.93	5.91	54.31	35.84	74.00	54.00	-18.16	A
9765.00	40.52		8.71	49.23		74.00	54.00	-24.77	P
14655.00	40.50	31.25	14.60	55.10	45.85	74.00	54.00	-8.15	A
17092.50	37.95	28.54	15.93	53.87	44.47	74.00	54.00	-9.53	A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.



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Product Name	CORDLESS TELEPHONE	Test Date	2007/06/14
Model Name	T7406E	Test By	Jason Chang
Test Mode	CH High TX / Headset	TEMP & Humidity	22°C, 54%

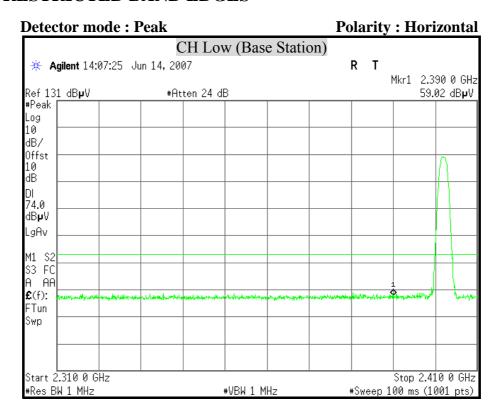
	Horizontal polarity								
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4957.50	60.25	30.96	3.91	64.16	34.87	74.00	54.00	-19.13	A
7432.50	39.37		5.92	45.30		74.00	54.00	-28.70	P
12397.50	58.67	29.27	12.05	70.72	41.32	74.00	54.00	-12.68	A
14872.50	42.63	30.25	14.39	57.02	44.54	74.00	54.00	-9.46	A
17347.50	44.44	31.27	15.78	60.23	47.05	74.00	54.00	-6.95	A
			1	ertical po	larity				
Freq. (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Mark (P/Q/A)
4957.50	48.94	30.54	3.91	52.86	34.45	74.00	54.00	-19.55	A
7440.00	47.55	31.85	5.93	53.47	37.78	74.00	54.00	-16.22	A
9915.00	39.57		9.00	48.57		74.00	54.00	-25.43	P
12390.00	41.45	32.15	12.06	53.50	44.21	74.00	54.00	-9.79	A

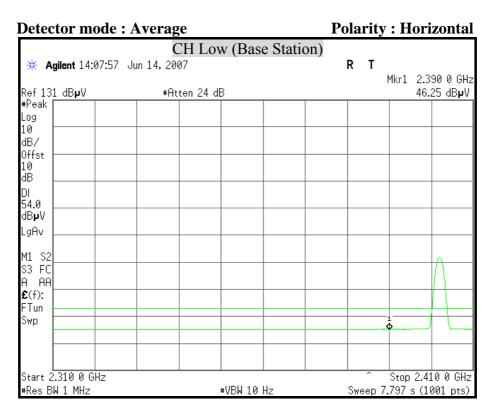
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. $Margin(dB) = Remark \ result(dBuV/m) Peak \ limit(dBuV/m)$.

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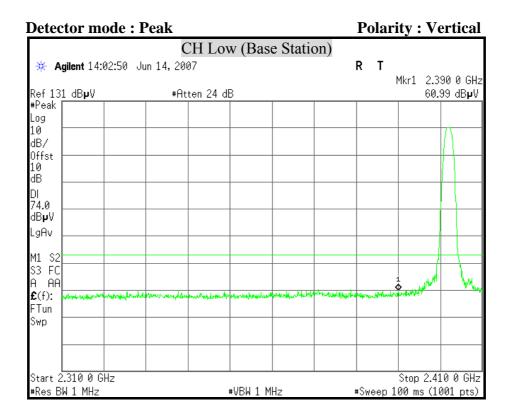
Page ____53 __of ___72

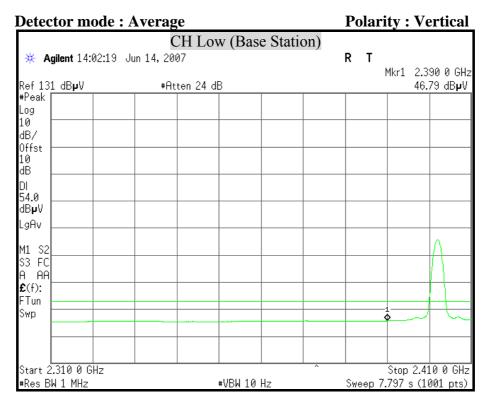
8.8.4 RESTRICTED BAND EDGES



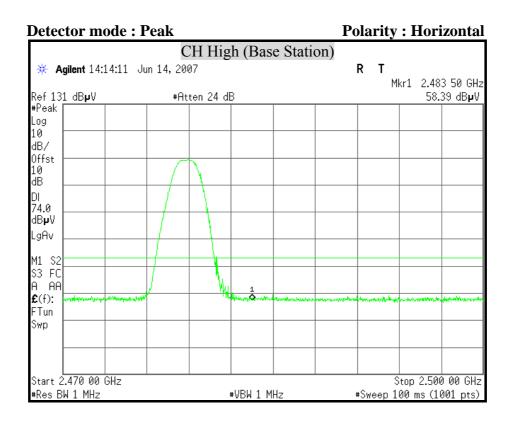


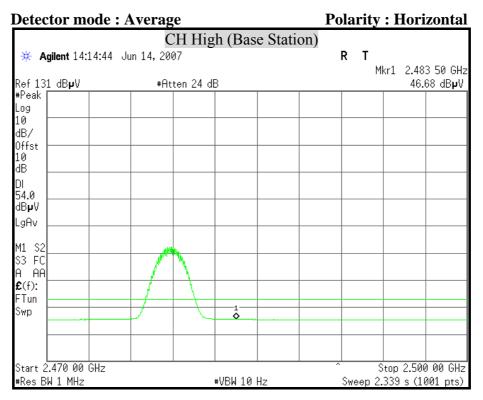
FCC ID : D6X-T7406E Report No. : 70703301-RP1 Page ____54 __of ___72



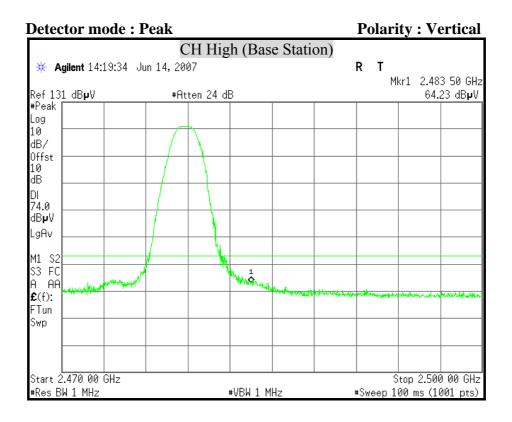


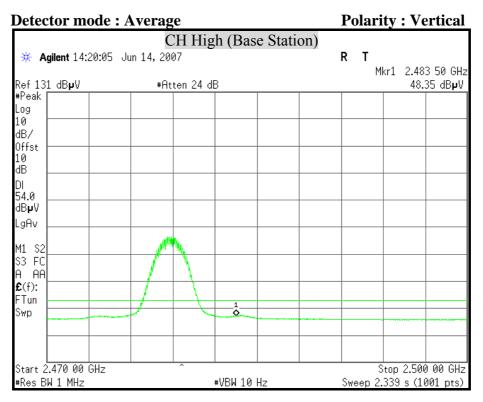
FCC ID : D6X-T7406E Report No. : 70703301-RP1 Page ____55___of ___72



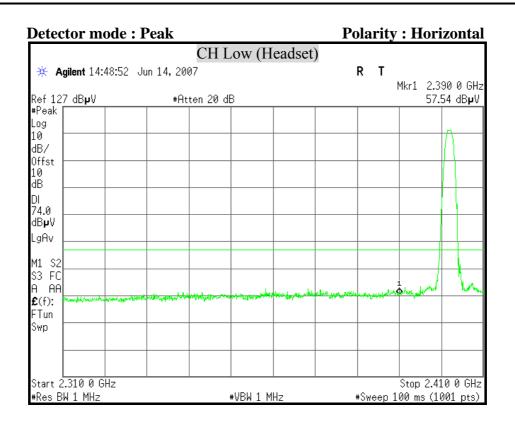


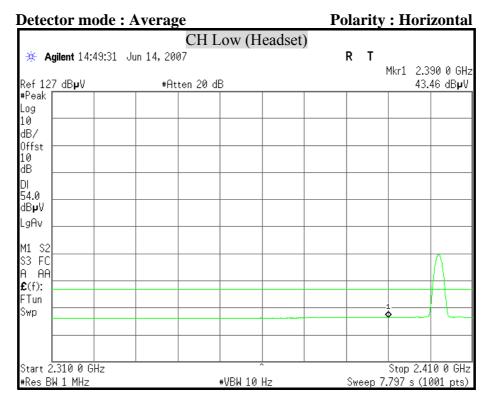
FCC ID : D6X-T7406E Report No. : 70703301-RP1 Page ____56 ___of ___72



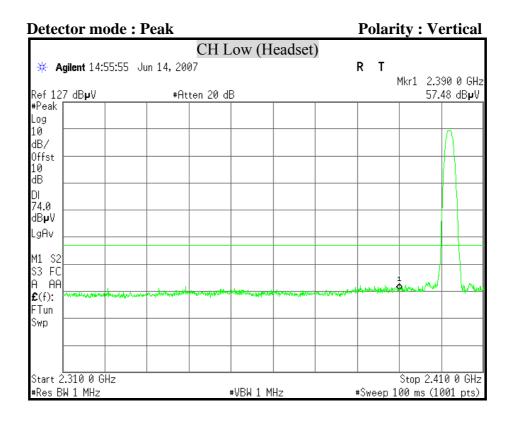


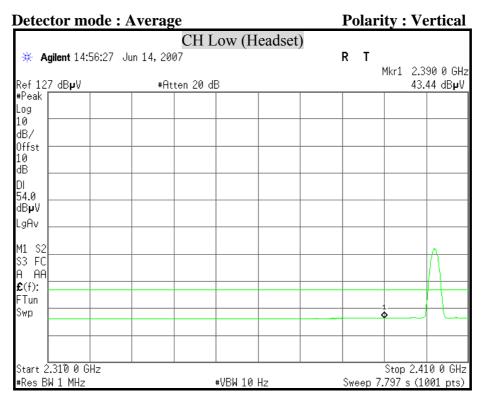
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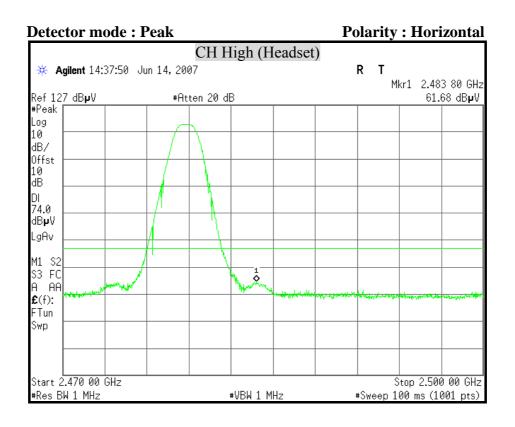


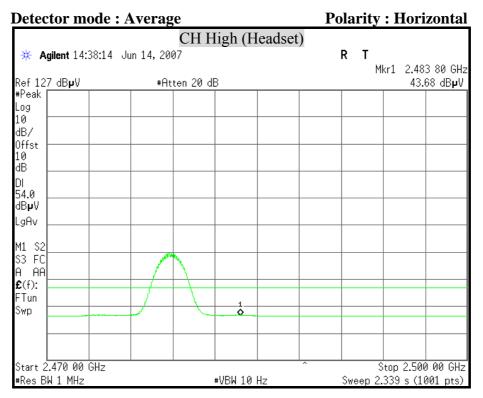
FCC ID : D6X-T7406E Report No. : 70703301-RP1 Page ____58 __of ___72



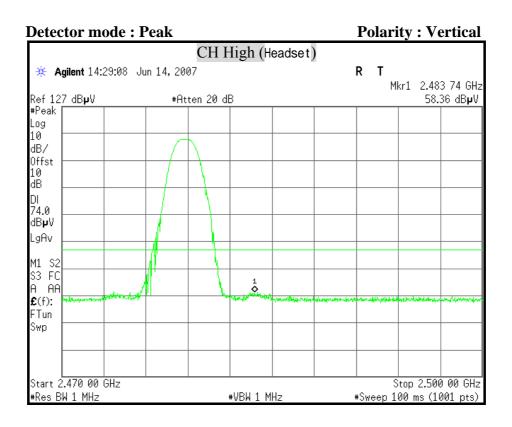


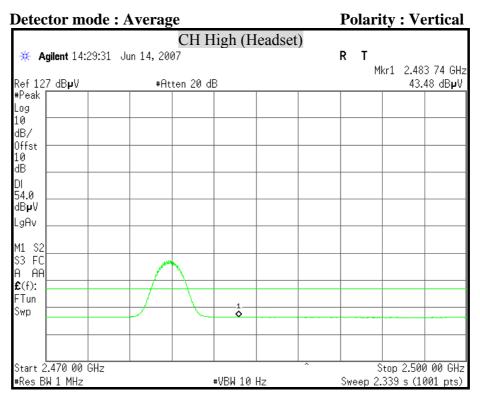
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8.9 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted limit (dBµv)		
	Quasi-peak	Average	
0.15 - 0.5	66 to 56	56 to 46	
0.5 - 5	56	46	
5 - 30	60	50	

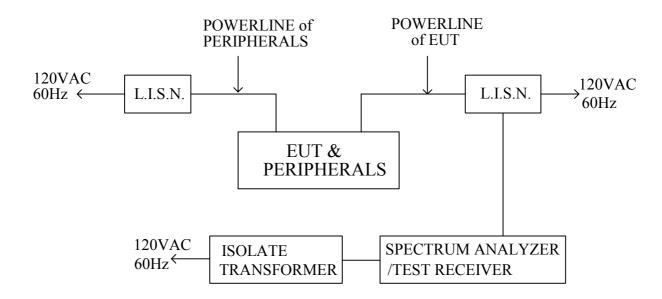
TEST EQUIPMENT

The following test equipment is used during the conducted powerline tests:

Manufacturer or Type	Model No.	Serial No.	Date of Calibration	Calibration Period	Remark
EMCO L.I.S.N.	3810/2	9801-1850	February 26, 2007	1 Year	FINAL
CHASE L.I.S.N	NNLK 8129	8129118	January 26, 2007	1 Year	FINAL
R & S TEST RECEIVER	ESHS30	838550/003	January 31, 2007	1 Year	FINAL
KEENE SHIELDED ROOM	5983	No.1	N/A	N/A	FINAL
R & S PULSE LIMIT	EHS3Z2	357.8810.52	July 10, 2007	1 Year	FINAL
N TYPE COAXIAL CABLE			August 21, 2006	1 Year	FINAL
50Ω TERMINATOR			July 10, 2007	1 Year	FINAL

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TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

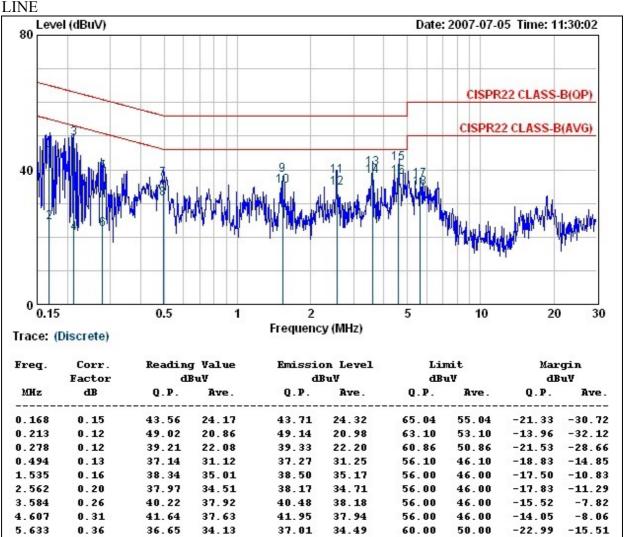
No non-compliance noted

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CONDUCTED RF VOLTAGE MEASUREMENT

Product Name	CORDLESS TELEPHONE	Test Date	2007/07/05
Model	T7406E	Test By	Jason Chang
Test Mode	Base Station	TEMP & Humidity	24.5°C, 55%



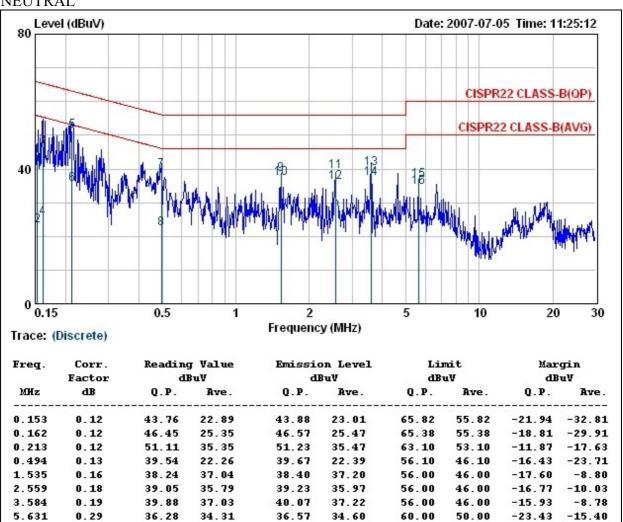


- 1. $Correction\ Factor = Insertion\ loss + cable\ loss$
- 2. $Margin\ value = Emission\ level Limit\ value$

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Product Name CORDLESS TELEPHONE		Test Date	2007/07/05
Model	Model T7406E		Jason Chang
Test Mode	Base Station	TEMP & Humidity	24.5°C, 55%

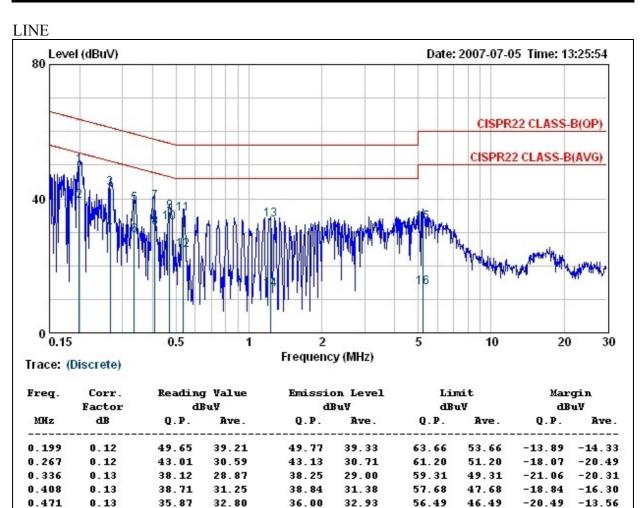
NEUTRAL



- 1. $Correction\ Factor = Insertion\ loss + cable\ loss$
- 2. Margin value = Emission level Limit value

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Product Name	CORDLESS TELEPHONE	Test Date	2007/07/05
Model	T7406E	Test By	Jason Chang
Test Mode	Headset	TEMP & Humidity	24.5°C, 55%



35.48

33.61

32.87

24.73

12.92

13.50

56.00

56.00

60.00

46.00

46.00

50.00

-20.52 -21.27

-27.13 -36.50

-33.08

-22.39

Remark:

0.535

1.223

5.205

0.13

0.15

0.34

1. $Correction\ Factor = Insertion\ loss + cable\ loss$

35.35

33.46

32.53

24.60

12.77

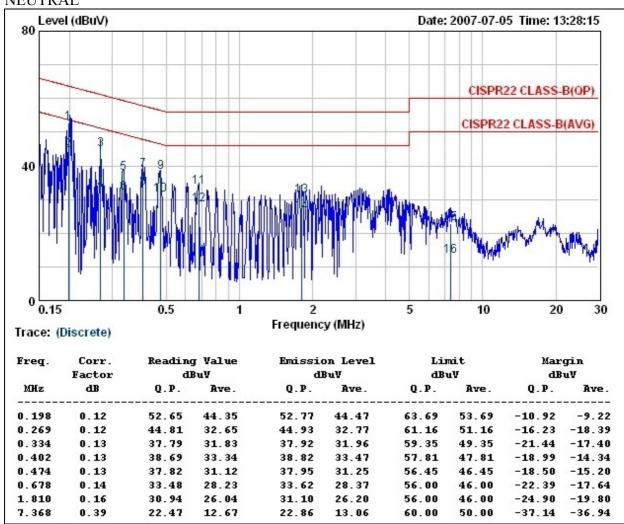
13.16

2. $Margin\ value = Emission\ level - Limit\ value$

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Product Name	CORDLESS TELEPHONE	Test Date	2007/07/05
Model	T7406E	Test By	Jason Chang
Test Mode	Headset	TEMP & Humidity	24.5°C, 55%

NEUTRAL



- 1. $Correction\ Factor = Insertion\ loss + cable\ loss$
- 2. Margin value = Emission level Limit value



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9. ANTENNA REQUIREMENT

9.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 ANTENNA CONNECTED CONSTRUCTION

Base Station : The antenna used in this product is Omni-directional antenna. The maximum Gain of the antenna only 3dBi.

Headset: The antenna used in this product is Embedded antenna. The maximum Gain of the antenna only -0.34dBi.