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## RF Exposure Evaluation declaration

**Applicant No.:** SZEMO080300822RF  
**Applicant:** SPECTRA Technologies Holdings Co. Ltd.  
**Address of Applicant:** Unit 1301-09, 19-20, Tower II, Grand Century Place, 193 Prince Edward Road West  
Hong Kong  
**FCC ID:** VWZWCREONGPRS  
**Equipment Under Test (EUT):**  
Brand Name: CREON  
Model Name: CREON Wireless  
Country of Origin: China  
Country of Destination: USA  
**Date of Receipt:** 19 June 2008  
**Date of Test:** 23 June 2008  
**Date of Issue:** 25 June 2008

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Robinson Lo  
Laboratory Manager

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# 1 RF Exposure Evaluation

## 1.1 Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment 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 <sup>2</sup> )	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	300

F = Frequency in MHz

### Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

### Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3 Test Result of RF Exposure Evaluation

Product : Wireless Headphone

Test Item : RF Exposure Evaluation

Test Site : No.3 OATS

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.8dBi in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance (1.8dBi):

GSM	Channel	Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
850	128	824.20	1811.340	0.544	0.55	PASS
	190	836.60	1725.838	0.518	0.55	PASS
	251	848.80	1678.804	0.504	0.55	PASS
1900	512	1850.20	903.650	0.271	1	PASS
	661	1880.00	807.235	0.242	1	PASS
	810	1909.80	668.343	0.201	1	PASS

The distance r (4th column) calculated from the Friis transmission formula is far shorter than 20 cm separation requirement.