

RF Exposure Evaluation declaration

Product Name: Shriker-G0+ Evaluation Kit

Model No. : SHKG0P

FCC ID : 2AGYI-SHKG0P

Applicant: MegaChips Corporation

Address: 1-1-1, Miyahara, Yodogawa-ku, Osaka 532-0003, Japan

Date of Receipt : Feb. 18, 2016

Date of Declaration: Mar. 21, 2016

Report No. : 1620292R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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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)

ENVITOR ON WITH TERMINOSIDEE EXT OSCILE (VIII E)					
Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time	
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)	
(A) Limits for Occupational/ Control Exposures					
300-1500			F/300	6	
1500-100,000			5	6	
(B) Limits for General Population/ Uncontrolled Exposures					
300-1500			F/1500	6	
1500-100,000			1	30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = 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

Pd id the limit of MPE, 1 mW/cm². 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° M RH.



1.3. Test Result of RF Exposure Evaluation

Product : Shriker-G0+ Evaluation Kit Test Item : RF Exposure Evaluation

Test Site : No.3 OATS

Operation Frequency	902.50 – 927.50MHz
Maximum Conducted output power	29.78dBm
Antenna gain	0.43dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)	
950.6047937	0.2088	

Power density in column is much lower than the limit (0.6 mW/cm2).