

FCC RF Exposure Report

FCC ID : ARA-CPE7000IDU2X
Equipment : DM-CPE7000-Si-2D-1V-WiFi-2.x
Model No. : WLTXFSR-105GN
Brand Name : Telrad
Applicant : Telrad Networks Ltd
Address : Industrial Center PO Box 6118, Lod, 711600
Israel
Standard : 47 CFR FCC Part 2.1091
Received Date : Sep. 11, 2015
Tested Date : Sep. 19 ~ Nov. 13, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

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FA591105	Rev. 01	Initial issue	Nov. 25, 2015

1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm ²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 MPE EVALUATION RESULTS

Mode	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
Wi-Fi 2.4G	22.16	4.28	20	0.088	1
LTE Band 41	23.53	6.15	20	0.185	1

MPE Evaluation of Simultaneous Transmission

Wi-Fi 2.4 GHz and LTE can transmit at the same time, MPE evaluation is as below formula.

PD1 / Limit1 + PD2 / Limit 2 + < 1, PD = Power density

MPE Evaluation = Maximum MPE of 2.4GHz + Maximum MPE of LTE = 0.088 / 1 + 0.185 / 1 = 0.273 < 1

Conclusion

MPE evaluations of single and simultaneous transmission meet the requirement of standard.

2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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