

RF Exposure Report

Report No.: SA161208E07A

FCC ID: ZMYDSL2401HN2E1C

Test Model: DSL-2401HN2-E1C

Received Date: Dec. 08, 2016

Test Date: Dec. 19, 2016

Issued Date: Mar. 28, 2017

Applicant: MitraStar Technology Corporation

Address: 1-1# Minshan Road, Wuxi New Wu District Jiangsu, China

- **Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
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Release Control Record					
Issue No.	Description			Date Issued	
SA161208E07A	Original release.			Mar. 28, 2017	
	078	Dago No. 2 / C		Poport Format Varsion: 6.1.1	



1Certificate of Co-formityProduct:VDSL IADBrand:MitraStarBrand:DSL-2401HN2-E1CSample Status:ENGINEERING SAMPLEApplicant:MitraStar Technology CorporationTest Date:Dec. 19, 2016Standards:FCC Part 2 (Section 2.1091)KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Approved by :	Nay Chen / Manager	, Date:	Mar. 28, 2017	
	, ,			



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			Power Density (mW/cm ²)	Average Time (minutes)				
	Limits For General Population / Uncontrolled Exposure							
300-1500	30							
1500-100,000			1.0	30				

F = Frequency in MHz

2.2 MPE Calculation 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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain Table

Antenna No.	Chain No.	Antenna Gain(dBi)	Frequency range (GHz ~ GHz)	Antenna Type	Connecter Type	Cable Length (mm)
1	Chain 0	2.46	2.4~2.4835	Disala	NA	177.7
2	Chain 1	2.36	2.4~2.4835	Dipole	NA	42.7



3 Calculation Result of Conducted Power

Frequency	POWAr		Distance	Power Density	Limit
(MHz)			(cm)	(mW/cm ²)	(mW/cm ²)
2412-2462	575.232	5.42	20	0.39863	1

NOTE:

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.42dBi$

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