

RF EXPOSURE REPORT

REPORT NO.: SA990114L03

MODEL NO.: RFS-4011

FCC ID: UZ7RFS4011

ACCORDING: FCC Guidelines for Human Exposure

IEEE C95.1

APPLICANT: Motorola, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services

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1. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)		
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500			F/1500	30		
1500-100,000		•••	1.0	30		

F = Frequency in MHz

2. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

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

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this dev1ice is classified as **Mobile Device**.



4. CALCULATION RESULT OF MAXIMUM EIRP

For 2412~2462MHz

ANTENNA TYPE	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
ANT 1 : ML-2452-PTA4M3X3-1	29.8	2.1	20	0.308	1.00
ANT 2 : ML-2452-PTA3M3-036	29.8	3.5	20	0.425	1.00
ANT 3 : ML-2452-HPA5-036	29.3	3.1	20	0.346	1.00
ANT 4 : ML-2452-PNA7-01R	28.1	7.5	20	0.722	1.00

For 5180~5240MHz

ANTENNA TYPE	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm²)	LIMIT (mW/cm²)
ANT 1 : ML-2452-PTA4M3X3-1	15.6	3.95	20	0.018	1.00
ANT 2 : ML-2452-PTA3M3-036	15.7	5	20	0.023	1.00
ANT 3 : ML-2452-HPA5-036	16.7	4.6	20	0.027	1.00
ANT 4 : ML-2452-PNA7-01R	15.8	6.3	20	0.032	1.00

For 5745~5825MHz

ANTENNA TYPE	MAX CONDUCTED POWER	ANTENNA GAIN	DISTANCE	POWER DENSITY	LIMIT
	(dBm)	(dBi)	(cm)	(mW/ cm ²)	(mW/cm ²)
ANT 1 : ML-2452-PTA4M3X3-1	28.4	3.95	20	0.342	1.00
ANT 2 : ML-2452-PTA3M3-036	28.5	5	20	0.445	1.00
ANT 3 : ML-2452-HPA5-036	29.6	4.6	20	0.523	1.00
ANT 4 : ML-2452-PNA7-01R	25.7	10	20	0.739	1.00