Annex Information

RF EXPOSURE

Radio Frequency Exposure Information

Testing was performed in accordance with the requirements of FCC Part 15.247(i)

Frequency Hopping Spread Spectrum transmitters operating in the 2402 - 2480 MHz bands are required to be operated in a manner that ensures that the public is not exposed to RF energy levels in accordance with CFR 47, Section 1.1307(b)(1).

Maximum Permissible Exposure (MPE) Evaluation

Applicant	:Victor Company of Japan, Limited
Equipment	:Bluetooth Module
Model No.	:NAU0004
FCCID	:ASIV7V002

MPE Calculations

According to the OET Bulletin 65 (Edition 97-01)

$$S = \frac{PG}{4\pi R^2}$$

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where:

S=Power density (in appropriate units, e.g. mW/cm^2)

P=Power input to antenna (in appropriate units, e.g., mW)

G=Power gain of the antenna in the direction of interest relative to an isotropic radiator

R=Distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Tx Frequency=	2402 to 2402	(MHz)		
Maximum peak power=	3.57	(dBm)	(=0.002275W)	
Antenna gain=	-0.18	(dBi)		
S=	1.00	(mW/cm^2)		
P=	2.28	(mW)	(=Maximum peak power)	
G=	0.96	(numeric)		
R=	0.42	(cm)		

Calculated minimum separation distance from antenna : 0.42 (cm)

(R = 20.0 cm : S=0.000436 mW/cm^2)

Results:

Calculations show that the Radio devices with described antenna complied with Maximum Permissible Exposure (MPE) limit for the General Population / Uncontrolled Exposure