

RF TEST REPORT

Report Reference No.....: **MAX26010175P01-R01RF**

FCC ID.....: **2BUYBMULTINAV**

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Applicant's name.....: **RFOXIA (Registered in Delaware USA)**

Address.....: 2Office 712, 7th floor, Spark Mall, MU23, New Capital City, Cairo,
Egypt

Test specification.....: KDB 447498 D01 General RF Exposure Guidance v06
Standard.....:

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Equipment description.....: **MultiNav Pro+ BLE Module**

Trade Mark.....: RFOXIA

Manufacturer.....: RFOXIA (Registered in Delaware USA)

Model/Type reference.....: MultiNav Pro+BLE

Listed Models: MultiNav_BLE

Modulation: GFSK

Frequency.....: From 2402MHz to 2480MHz

Rating.....: DC 3.3V

Result.....: **PASS**

RF Exposure Evaluation

Limits

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)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², **P_{out}** = output power to antenna in mW;

G = gain of antenna in linear scale, **π** = 3.1416;

R = distance between observation point and center of the radiator in cm

P_d is 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.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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Test Result of RF Exposure Evaluation

Bluetooth BLE

Channel	Frequency (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	2402	12.52	17.86	0.02460	1.0	PASS
	2440	11.94	15.63	0.02153	1.0	PASS
	2480	14.06	25.47	0.03507	1.0	PASS

Remark: antenna gain= 8.4dBi

Conclusion: No SAR is required.