EXHIBIT 1. RF EXPOSURE REQUIRMENTS [§§ 15.247(i), 1.1310 & 2.1091]

1.1. Limits

§ **1.1310:** The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b).

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			

Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

1.2. Method of Measurements

Calculation Method of Power Density/RF Safety Distance:

$$S = \frac{PG}{4\pi \cdot r^2} = \frac{EIRP}{4\pi \cdot r^2}$$

Where,

P: power input to the antenna in mW

EIRP: Equivalent (effective) isotropic radiated power.

S: power density mW/cm²

G: numeric gain of antenna relative to isotropic radiator

r: distance to centre of radiation in cm

1.3. RF Evaluation

1.3.1. Co-location

Pursuant to KDB 447498 D01 General RF Exposure Guidance v06, Section 7.2:

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

Co-location at the minimum 20 cm evaluation separation distance required by the operating configurations and exposure conditions of the host device with integrated WiFi and/or BT modules.

Frequency (MHz)	*EUT EIRP (mW)	Evaluation Distance (cm)	Power Density (mW/cm ²)	FCC MPE Limit (mW/cm ²)	MPE Ratio
0.125	0.000013	20	0.000000026	No Limit	
	0.00				

The maximum calculated MPE ratio of the EUT with integral antenna

* EIRP = $(E \times d)^2 / 30$, where E = electric field strength in V/m, d = measurement distance in meters (m)

The maximum calculated MPE ratio for the EUT with 125 kHz transmitter is 0.00 (since there is no limit), this configuration can be co-located with other transmitters provided the sum of the MPE ratios for all the other simultaneous transmitting antennas incorporated in a host device is \leq 1.0.

The EUT will be co-located with WiFi/BT module (FCC ID: S38-WIFIBT, IC: 10891A-WIFIBT), the following table addresses the co-location of the EUT.

The maximum	calculated MPE	ratio of the	WiFi/BT m	odule with 2	dBi antenna

*Radio Module	Frequency (MHz)	EIRP (mW)	Evaluation Distance (cm)	Power Density (mW/cm ²)	FCC MPE Limit (mW/cm ²)	MPE Ratio
WiFi,/BT Module (FCC ID: S38-WIFIBT, IC: 10891A-WIFIBT)	2412	392.645	20	0.078	1.0	0.078
	2402	15.488	20	0.003	1.0	0.003
Sum of the MPE ratios					0.081	

* The test data of the radio module represented in this table is the worst-case configuration (maximum MPE ratio) derived from the original radio module MPE report. Refer to this report for details.

Verdict: The EUT can be co-located with WiFI/BT certified module (FCC ID: S38-WIFIBT, IC: 10891A-WIFIBT), the computed maximum MPE ratio of WiFI/BT module is 0.081 < 1.0.