MPE Calculation: WLAN(2.4GHz)

Frequency range :	2412.00	MHz	~	2462.0	0	MHz
Max Target power :	16.00	dBm	(802.11n40)			
Measured Conducted power :	14.94	dBm	(802.11n40))
Maximum antenna gain(PK):	2.18	dBi				
Maximum EIRP :	18.18	dBm(6	5.766)m	W

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below.

Calculation of power density at the specific separation

Requirment = 1 mW/cm²
(FCC Part 1.1310 Table 1 Limits for maximum permissible exposure(MPE)

MPE Calculation: WLAN(5GHz)

Frequency range :	5745.00	MHz	~	5825.0	0	MHz
Max Target power :	17.00	dBm	(802.11a)			
Measured Conducted power :	15.91	dBm	(802.11a)			
Maximum antenna gain(PK):	2.36	dBi				
Maximum EIRP :	19.36	dBm(8	6.298)m	W

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below.

Calculation of power density at the specific separation

Requirment = 1 mW/cm²
(FCC Part 1.1310 Table 1 Limits for maximum permissible exposure(MPE)

MPE Calculation: BT(2.4GHz)

Frequency range :	2402.00	MHz	~ 2480.00 MHz		
Max Target power :	5.50	dBm	(1Mbps)		
Measured Conducted power :	4.59	dBm	(1Mbps)		
Maximum antenna gain(PK):	-0.22	dBi			
Maximum EIRP :	5.28	dBm(3.373)mW		

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE calculation for this exposure is shown below.

Calculation of power density at the specific separation

Requirment = 1 mW/cm²
(FCC Part 1.1310 Table 1 Limits for maximum permissible exposure(MPE)

- FCCID: BEJDT-LG24V55 LG Electronics Inc.

RF Exposure Compliance for simultaneous operations

- Configurations for simultaneous operations

- Configuration 1: WLAN 2.4GHz 802.11b/g/n + Bluetooth 2.4GHz

- Configuration 2: WLAN 5GHz 802.11a/n/ac + Bluetooth 2.4GHz

- Configuration 3: N/A

Note: Above configuration was declared from applicant.

Configurations for simultaneous operations

RF function	WL	AN	В	вт	N/A		
Band	2.4GHz	5GHz	2.4GHz	N/A	N/A	N/A	
Power Density (mW/cm2)	0.01308	0.01717	0.00067				Σ of MPE ratios
Requirement (mW/cm2)	1.000	1.000	1.000				
MPE ratio (Power Density/Requirement)	0.013	0.017	0.001				
Configuration 1 (MPE ratio)	0.013		0.001				0.014
Configuration 2 (MPE ratio)		0.017	0.001				0.018
Configuration 3 (MPE ratio)							

Note: The maximum power density in each RF function was used for above table.

Requirment = Σ of MPE ratios ≤ 1