



Report No.: FCS202106046W01

FCC RF Exposure

EUT Description: Cosori VeSync Aeroblaze™ Indoor Grill

Model No.: CAG-A601S-KUS, CAG-A601S-KUSR

FCC ID: 2ARBY-A601S

1. 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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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	0.163 1.0							
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

Formula: Pd = (Pout*G)/(4* π *r²)

Where:

Pd = power density in mW/cm^2 ,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14;$

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

Pd id 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.





2. 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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3. Test Result of RF Exposure Evaluation

2.4G WIFI

	Output power	Anten	na	Power Density	Limit	Result		
	(dBm/mW)	Gain(d	lBi)	at R=20cm	(mW/cm ²)			
				(mW/cm²)				
802.11b	16.18/41.495	1.0)	0.01039	1.0	Pass		
802.11g	14.57/28.642	1.0)	0.00717	1.0	Pass		
802.11n(20MHz)	14.39/27.479	1.0)	0.00688	1.0	Pass		
802.11n(40MHz)	13.23/21.038	1.0		0.00527	1.0	Pass		
Turn-up power								
Mode			Peak power range(dBm)					
2.4G WIFI			13.00-17.00					

	Output power	Antenna	Power Density	Limit	Result
WIFI	(dBm/mW)	Gain(dBi)	at R=20cm	(mW/cm ²)	
			(mW/cm ²)		
2.4G WIFI	17.00/50.12	1.0	0.01255	1.0	Pass

Conclusion: No SAR is required