

EUT Description: car carplay stereo

ModelNo.:1026CP,1026SCP,1026SCP-FB,1026XXX,991CP,9XXXX,888T,888TCP,801CP,8XXXX,788NCP, 788CP,743CP,7XXXX,686CP,686SCP,6XXXX,588CP,5XXXX,TS0001,1026VCP,1026QCP,TS000X FCC ID: 2A47F-1026CP

Page 1 of 3

Equipment type: mobile device

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
	(A) Limi	ts for Occupational/Controlled E	xposures	1	
0.3-3.0	3-3.0 614		*(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 fo	or General Population/Uncontroll	led 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

Formula: $Pd = (Pout*G)/(4* \pi *r^2)$

Where :

 $Pd = power density in mW/cm^2$,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

π = 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.



3. Test Result of RF Exposure Evaluation

WIFI

	Output power	Antenna	Power Density	Limit	Result	
	(dBm/mW)	Gain(dBi)	at R=20cm	(mW/cm²)		
			(mW/cm ²)			
U-NII 1 802.11a	6.35/4.32	4.41	0.00237	1.0	Pass	
U-NII 1	C 20/4 27	4.41	0.00005	1.0	Pass	
802.11n(HT20)	6.30/4.27		0.00235			
U-NII 1	7.25/5.31	4.41	0.00292	1.0	Pass	
802.11n(HT40)	7.23/3.31					
U-NII 1	6.31/4.28	4.41	0.00225	1.0	Dasa	
802.11ac(HT20)	0.31/4.28	4.41	0.00235	1.0	Pass	
U-NII 1	7 28/5 25	4.41	0.00294	1.0	Pass	
802.11ac(HT40)	7.28/5.35	4.41	0.00294	1.0	PdSS	
U-NII 1	2.27/1.69	1 11	0.00003	1.0	Pass	
802.11ac(HT80)	2.27/1.09	4.41	0.00093	1.0	PdSS	
U-NII 3 802.11a	13.07/20.27	4.41	0.01114	1.0	Pass	
U-NII 3	13.24/21.08	4.41	0.01158	1.0	Pass	
802.11n(HT20)	13.24/21.08	4.41	0.01138	1.0		
U-NII 3	7.65/5.82	4.41	0.00320	1.0	Pass	
802.11n(HT40)	7.05/5.82	4.41	0.00320	1.0	F 833	
U-NII 3	13.09/20.37	4.41	0.01119	1.0	Pass	
802.11ac(HT20)	13.03/20.37	4.41	0.01119	1.0	rd55	
U-NII 3	7.58/5.73	4.41	0.00315	1.0	Pass	
802.11ac(HT40)	1.2012.12	4.41	0.00513	1.0	г а 5 5	
U-NII 3	10.79/11.99	4.41	0.00659	1.0	Pass	
802.11ac(HT80)	10.75/11.55	4.41	0.00059	1.0	F 035	

Flux Compliance Service Laboratory

EIRP=EMeas+20log(dmeas)-104.7

EIRPis the equivalent isotropically radiated power,EMeasin dBmis the field strength of the emission at the measurement distance, in dB u V/mdMeasis the measurement distance, in m

ВΤ

Field	EIRP(dBm)	Max	Antenna	Power	Limit	Result
strength(dBuV/m)		tune-up(mW)	Gain(dBi)	Density	(mW/cm²)	
				at R=20cm		
				(mW/cm²)		
89.39	-5.7676	0.2650	1.96	0.00008	1.0	Pass
88.33	-6.8276	0.2076	1.96	0.00006	1.0	Pass
90.43	-4.7276	0.3367	1.96	0.00011	1.0	Pass

BT+WIFI:0.00011+0.01158=0.01169 < 1

Conclusion: No SAR is required