FCC ID: 2A40G-838W

Product Name:	Multi port charger
Product Model No.:	838W, 838D, 868W, 888W, F8, 618, 818, 818PD, 868D
Transmitting mode	Keep the EUT in continuously wireless charging mode
Power supply:	Input:AC100-240V 50/60Hz USB-C PD3.0 Output: DC 5V/3A, DC 9V/3A, DC 12V/2.25A, PPS:3.3-5.9V/3A, 3.3-11V/3A(27W Max). USB-A QC3.0 Output: DC 5V/3A, DC 9V/2A, DC 12V/1.5A, DC 4.5V/5A, DC 5V4.5A(22.5W Max) USB-C+USB-A(Smart 1, Smart 2, Smart 3, Smart 4): DC 5V2.4A+DC 5V2.4A(24W Max) Wireless Output: 15W, 10W, 7.5W, 5W

Test Modes:			
Mode 1	Wireless charging Output 5W		
Mode 2	Wireless charging Output 7.5W		
Mode 3	Wireless charging Output 10W		
Mode 4	Wireless charging Output 15W		
Note: 1.All modes ha	we been tested and the report only shows the data for the worst working mode 4.		

2.We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

RF Exposure Evaluation

1 Measuring Standard

KDB 680106 RF Exposure Wireless Charging Apps v03r01

2 Requirements

According to the item 5 of KDB 680106 v03r01:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(1) Power transfer frequency is less than 1MHz.	Yes; the device operate in the frequency range	
	from 115 KHz to 205 KHz	
(2) Output power from each primary coil is less than or	Yes; the maximum output power of the primary	
equal to 15 watts.	coil is 15W.	
(3) The system may consist of more than one source	Yes; the transfer system includes only single	
primary coils, charging one or more clients. If more than	primary coils.	
one primary coil is present, the coil pairs may be		
powered on at the same time.		
(4) Client device is placed directly in contact with the	Yes; Client device is placed directly in contact	
transmitter.	with the transmitter.	
(5) Mobile exposure conditions only (portable exposure	Yes, mobile exposure conditions only.	
conditions are not covered by this exclusion).		

(6) The aggregate H-field strengths anywhere at or	Yes, see test result in item 6.
beyond 15 cm surrounding the device, and 20 cm away	

from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit. Remark: Meet all the above requirements.

Limits

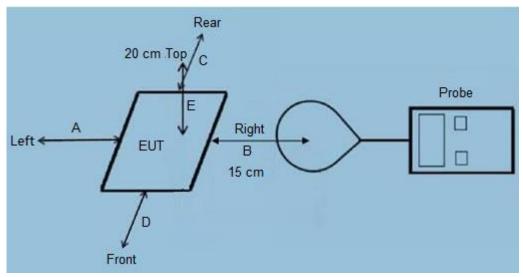
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
	(A) Limits for Occ	cupational/Controlled Ex	posures		
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	1	1.0	30	

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

3 Test Setup



4 Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points

(A, B, C, D, E) were completed.

4) The EUT was measured according to the dictates of KDB 680106 v03r01.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

5 Description of Support Units

Mobile phone (Provide by test lab):

Manufacturer: SAMSUNG

Model: Galaxy S21 5G

6 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date	Cal.Due date
				(mm-dd-yy)	(mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 26 2021	June. 25 2022
Magnetic field probe	Nordo	ELT probe 100cm ²	M0675	June. 26 2021	June. 25 2022
100cm ²	Narda		1010075	June. 20 2021	June. 25 2022
Field Probe	ETS	HI-6105	/	June. 24 2021	June. 23 2022
Laser Data Interface	ETS	HI-6113	/	June. 24 2021	June. 23 2022

7 Test Result

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(V/m)
0.115-0.205	0.16	0.19	0.20	0.13	614

E-Filed Strength at 20 cm from the top of the EUT (V/m)

Frequency Range	Test	Limits	
(MHz)	Position E	(V/m)	
0.115-0.205	0.15	614	

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(A/m)
0.115-0.205	0.06	0.19	0.07	0.12	1.63

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range	Test	Limits
(MHz)	Position E	(A/m)
0.115-0.205	0.18	1.63

8 Test Set-up Photo

Please see annex test setup photos.