FCC 47 CFR MPE REPORT

SUNVALLEYTEK INTERNATIONAL, INC.

VAVA Docking Station

Model Number: VA-DK001

FCC ID: 2AFDGVA-DK001

Prepared for: SUNVALLEYTEK INTERNATIONAL, INC.			
	46724 Lakeview Blvd, Fremont, California, United States, 94538-6529		
Prepared By: EST Technology Co., Ltd.			
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China		
Tel: 86-769-83081888-808			

Report Number:	ESTE-R1803015
Date of Test:	Apr. 28, 2018
Date of Report:	Apr. 28, 2018



EST Technology Co. ,Ltd Re

Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(b), 1.1310

1. Limits for Maximum Permissible Exposure (MPE)

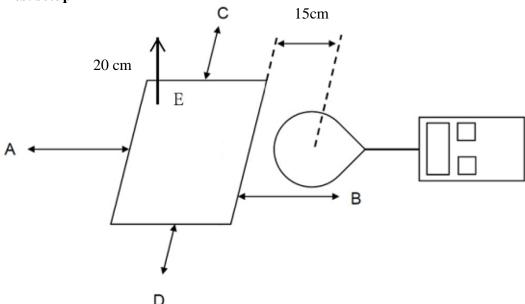
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)	
(A)Limits for Occupational / Control Exposures					
0.3-3.0	614	1.63	*(100)	6	
(B) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	30	

[&]quot;*" means Plane-wave equivalent power density

2. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Magnetic field probe	Narda	2304/03	M-0018	June,29,17	1 Year

3. Test setup



- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe.
- c. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

4. Equipment Approval Considerations

According to the item 5(b) of KDB 680106 D01 RF Exposure Wireless Charging App v03:

Inductive wireless power transfer applications that meets KDB 680106 Clause 5(b) 6 conditions are excluded from submitting an RF exposure evaluation.

1	Power transfer frequency is less that 1 MHz
	YES; the device operated in the frequency range from 126.5 kHz.
2	Output power from each primary coil is less than or equal to 15 watts.
	YES; the maximum output power of the primary coil is 9W.
3	The transfer system includes only single primary and secondary coils. This includes charging
	systems that may have multiple primary coils and clients that are able to detect and allow coupling
	only between individual pairs of coils.
	YES; the transfer system includes only single primary and secondary coils.
4	Client device is placed directly in contact with the transmitter.
	YES; Client device is placed directly in contact with the transmitter.
5	Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
	YES
6	The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface
	from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
	YES; The EUT field strength levels are 50% x MPE limts.

5. Test Mode

Mode	Description	
	Full Load	
Charging mode with dummy load	Half Load	
	Empty Load	
Remark: The "Full Load" is worst case, will be recorded in the report.		

6. E-Field Test Result

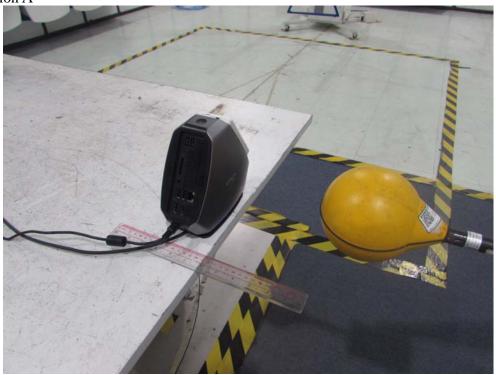
Test Mode	Full Load	Half Load	Empty Load
Frequency range (kHz)		126.5 kHz	
Position A(V/m)	1.129	1.111	1.045
Position B(V/m)	1.140	0.986	1.006
Position C(V/m)	1.157	1.036	1.109
Position D(V/m)	1.468	1.293	1.146
Position E(V/m)	1.190	1.200	1.063
Limits (V/m)		614	
50% Limits(V/m)		307	

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7. H-Field Test Result

Test Mode	Full Load	Half Load	Empty Load
Frequency range (kHz)	126.5 kHz		
Position A(A/m)	0.119	0.096	0.085
Position B(A/m)	0.104	0.087	0.094
Position C(A/m)	0.121	0.111	0.103
Position D(A/m)	0.171	0.158	0.152
Position E(A/m)	0.108	0.099	0.087
Limits (A/m)		1.63	
50% Limits (A/m)		0.815	

8. Test Setup Photo Position A



Position B



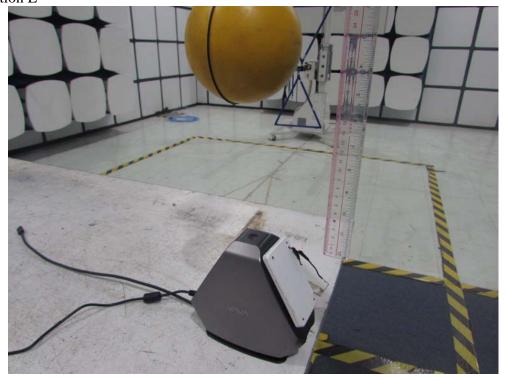
Position C



Position D



Position E



Note: The dummy load must be placed on the side of the EUT.(Parallel to the coil)

====END====