



Human Exposure Report

Application No.: SZEM1910019770CR
Applicant: HANK ELECTRONICS CO., LTD.
Address of Applicant: Floor 2nd-7th, A8, Hongye Industry City Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Manufacturer: HANK Electronics Co., Ltd.
Address of Manufacturer: Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Factory: HANK Electronics Co., Ltd.
Address of Factory: Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Wireless Charger Mat
Model No.: HKWP1661-10E
FCC ID: 2AIOC-1661
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2019-10-31
Date of Test: 2019-11-11 to 2019-11-14
Date of Issue: 2019-11-19

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Kenx. Xu

Keny Xu
EMC Laboratory Manager



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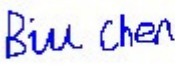
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-11-19		Original

Authorized for issue by:				
				
		Bill Chen /Project Engineer		
				
		Eric Fu /Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Car charger: Input:DC 12V-24V Output:DC 5V --- 2.4A Output QC 3.0:DC 5V --- 3A,9V --- 2A,12V --- 1.5A Wireless Charger Mat: Input:DC 5V/2A,9V/1.67A Output:10W Max
Cable:	USB cable:100cm unshielded
Antenna Type:	Loop Antenna
Antenna Gain:	0dBi
Modulation Type:	Load Modulation
Operation Frequency:	111.058kHz to 140.545kHz
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W,7.5W and 10W,the worst case 10W is reported only.The EUT has two coils,but the two coils cannot work at the same time.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
Rechargeable Battery	Gadlee	DP00027	REF. No.SEA2800
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-05-06



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 0/2/4/6/8/10/15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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	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	/	/	1.0	30

F=frequency in MHz
*=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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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5.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W

Coil 1 :

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	0	Side 1	0.7608	0.815
		Side 2	0.3350	0.815
		Side 3	0.7974	0.815
		Side 4	0.4512	0.815
		Top	0.7555	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	2	Side 1	0.6907	0.815
		Side 2	0.2869	0.815
		Side 3	0.7251	0.815
		Side 4	0.3916	0.815
		Top	0.6833	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	4	Side 1	0.6278	0.815
		Side 2	0.2435	0.815
		Side 3	0.6614	0.815
		Side 4	0.3470	0.815
		Top	0.6246	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	6	Side 1	0.5906	0.815
		Side 2	0.2081	0.815
		Side 3	0.6255	0.815
		Side 4	0.3117	0.815
		Top	0.5891	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	8	Side 1	0.5567	0.815
		Side 2	0.1758	0.815
		Side 3	0.5925	0.815
		Side 4	0.2789	0.815
		Top	0.5532	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	10	Side 1	0.5199	0.815
		Side 2	0.1372	0.815
		Side 3	0.5545	0.815
		Side 4	0.2407	0.815
		Top	0.5188	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	15	Side 1	0.4480	0.815
		Side 2	0.0684	0.815
		Side 3	0.4811	0.815
		Side 4	0.1708	0.815
		Top	0.4659	0.815

Mobile phone has been charge at zero charge, 10% charge, 50% charge, intermediate charge, 90% charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	0	Side 1	0.7731	0.7584	0.7550	0.815
		Side 2	0.3441	0.3305	0.3259	0.815
		Side 3	0.8091	0.7958	0.7916	0.815
		Side 4	0.4610	0.4463	0.4418	0.815
		Top	0.7655	0.7527	0.7476	0.815



Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	0	Side 1	0.7552	0.7422	0.7381	0.815
		Side 2	0.3512	0.3404	0.3361	0.815
		Side 3	0.7756	0.7620	0.7576	0.815
		Side 4	0.4305	0.4167	0.4117	0.815
		Top	0.7505	0.7363	0.7327	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	2	Side 1	0.7003	0.6888	0.6839	0.815
		Side 2	0.2958	0.2819	0.2770	0.815
		Side 3	0.7378	0.7257	0.7214	0.815
		Side 4	0.4017	0.3859	0.3813	0.815
		Top	0.6947	0.6793	0.6756	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	2	Side 1	0.6442	0.6332	0.6288	0.815
		Side 2	0.2993	0.2886	0.2850	0.815
		Side 3	0.6613	0.6480	0.6435	0.815
		Side 4	0.3670	0.3518	0.3466	0.815
		Top	0.6404	0.6282	0.6237	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	4	Side 1	0.6408	0.6304	0.6260	0.815
		Side 2	0.2545	0.2402	0.2364	0.815
		Side 3	0.6745	0.6602	0.6561	0.815
		Side 4	0.3576	0.3475	0.3435	0.815
		Top	0.6343	0.6203	0.6167	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	4	Side 1	0.5686	0.5552	0.5510	0.815
		Side 2	0.2647	0.2495	0.2461	0.815
		Side 3	0.5797	0.5661	0.5626	0.815
		Side 4	0.3241	0.3088	0.3051	0.815
		Top	0.5661	0.5545	0.5495	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	6	Side 1	0.6030	0.5901	0.5858	0.815
		Side 2	0.2191	0.2044	0.2002	0.815
		Side 3	0.6372	0.6241	0.6195	0.815
		Side 4	0.3210	0.3092	0.3045	0.815
		Top	0.6009	0.5853	0.5806	0.815





Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	6	Side 1	0.4895	0.4757	0.4712	0.815
		Side 2	0.2318	0.2169	0.2130	0.815
		Side 3	0.5039	0.4909	0.4859	0.815
		Side 4	0.2833	0.2675	0.2625	0.815
		Top	0.4855	0.4704	0.4662	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	8	Side 1	0.5698	0.5597	0.5550	0.815
		Side 2	0.1890	0.1738	0.1686	0.815
		Side 3	0.6032	0.5894	0.5846	0.815
		Side 4	0.2902	0.2792	0.2755	0.815
		Top	0.5632	0.5478	0.5441	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	8	Side 1	0.4059	0.3907	0.3867	0.815
		Side 2	0.1890	0.1775	0.1724	0.815
		Side 3	0.4119	0.4018	0.3970	0.815
		Side 4	0.2318	0.2183	0.2143	0.815
		Top	0.4011	0.3866	0.3831	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	10	Side 1	0.5326	0.5210	0.5167	0.815
		Side 2	0.1487	0.1373	0.1339	0.815
		Side 3	0.5654	0.5536	0.5490	0.815
		Side 4	0.2504	0.2378	0.2332	0.815
		Top	0.5296	0.5166	0.5124	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	10	Side 1	0.3266	0.3135	0.3099	0.815
		Side 2	0.1532	0.1379	0.1345	0.815
		Side 3	0.3309	0.3171	0.3123	0.815
		Side 4	0.1902	0.1787	0.1746	0.815
		Top	0.3236	0.3096	0.3045	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	15	Side 1	0.4574	0.4433	0.4393	0.815
		Side 2	0.0798	0.0642	0.0591	0.815
		Side 3	0.4906	0.4761	0.4711	0.815
		Side 4	0.1813	0.1659	0.1607	0.815
		Top	0.4780	0.4654	0.4616	0.815



Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	15	Side 1	0.2053	0.1905	0.1857	0.815
		Side 2	0.0989	0.0848	0.0814	0.815
		Side 3	0.2116	0.1994	0.1955	0.815
		Side 4	0.1194	0.1078	0.1041	0.815
		Top	0.2050	0.1945	0.1896	0.815

Coil 2 :

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	0	Side 1	0.7606	0.815
		Side 2	0.3348	0.815
		Side 3	0.7972	0.815
		Side 4	0.4509	0.815
		Top	0.7551	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	2	Side 1	0.6904	0.815
		Side 2	0.2867	0.815
		Side 3	0.7249	0.815
		Side 4	0.3913	0.815
		Top	0.6831	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	4	Side 1	0.6274	0.815
		Side 2	0.2432	0.815
		Side 3	0.6612	0.815
		Side 4	0.3468	0.815
		Top	0.6243	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	6	Side 1	0.5903	0.815
		Side 2	0.2079	0.815
		Side 3	0.6252	0.815
		Side 4	0.3114	0.815
		Top	0.5888	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	8	Side 1	0.5564	0.815
		Side 2	0.1755	0.815
		Side 3	0.5922	0.815
		Side 4	0.2786	0.815
		Top	0.5529	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	10	Side 1	0.5196	0.815
		Side 2	0.1369	0.815
		Side 3	0.5542	0.815
		Side 4	0.2404	0.815
		Top	0.5186	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
134 kHz	15	Side 1	0.4477	0.815
		Side 2	0.0681	0.815
		Side 3	0.4808	0.815
		Side 4	0.1705	0.815
		Top	0.4656	0.815

Mobile phone has been charge at zero charge, 10% charge, 50% charge, intermediate charge, 90% charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	0	Side 1	0.7729	0.7581	0.7547	0.815
		Side 2	0.3439	0.3302	0.3256	0.815
		Side 3	0.8089	0.7956	0.7914	0.815
		Side 4	0.4608	0.4461	0.4415	0.815
		Top	0.7653	0.7524	0.7473	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	0	Side 1	0.7551	0.7419	0.7379	0.815
		Side 2	0.3510	0.3401	0.3359	0.815
		Side 3	0.7754	0.7617	0.7574	0.815
		Side 4	0.4303	0.4164	0.4115	0.815
		Top	0.7503	0.7361	0.7324	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	2	Side 1	0.7001	0.6886	0.6836	0.815
		Side 2	0.2955	0.2816	0.2768	0.815
		Side 3	0.7376	0.7254	0.7212	0.815
		Side 4	0.4015	0.3856	0.3811	0.815
		Top	0.6945	0.6791	0.6754	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	2	Side 1	0.6440	0.6330	0.6286	0.815
		Side 2	0.2991	0.2884	0.2848	0.815
		Side 3	0.6611	0.6478	0.6433	0.815
		Side 4	0.3608	0.3516	0.3464	0.815
		Top	0.6402	0.6279	0.6235	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	4	Side 1	0.6406	0.6302	0.6258	0.815
		Side 2	0.2543	0.2401	0.2361	0.815
		Side 3	0.6743	0.6699	0.6559	0.815
		Side 4	0.3574	0.3472	0.3432	0.815
		Top	0.6341	0.6201	0.6164	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	4	Side 1	0.5684	0.5550	0.5508	0.815
		Side 2	0.2645	0.2493	0.2459	0.815
		Side 3	0.5795	0.5659	0.5623	0.815
		Side 4	0.3239	0.3086	0.3049	0.815
		Top	0.5659	0.5543	0.5492	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	6	Side 1	0.6028	0.5899	0.5856	0.815
		Side 2	0.2189	0.2042	0.2001	0.815
		Side 3	0.6371	0.6239	0.6194	0.815
		Side 4	0.3208	0.3090	0.3043	0.815
		Top	0.6007	0.5851	0.5804	0.815



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	6	Side 1	0.4893	0.4754	0.4711	0.815
		Side 2	0.2316	0.2167	0.2128	0.815
		Side 3	0.5037	0.4906	0.4857	0.815
		Side 4	0.2831	0.2673	0.2623	0.815
		Top	0.4853	0.4702	0.4660	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	8	Side 1	0.5696	0.5595	0.5548	0.815
		Side 2	0.1888	0.1736	0.1684	0.815
		Side 3	0.6030	0.5892	0.5844	0.815
		Side 4	0.2900	0.2790	0.2753	0.815
		Top	0.5631	0.5476	0.5439	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	8	Side 1	0.4057	0.3905	0.3865	0.815
		Side 2	0.1888	0.1773	0.1722	0.815
		Side 3	0.4117	0.4016	0.3968	0.815
		Side 4	0.2316	0.2181	0.2141	0.815
		Top	0.4009	0.3863	0.3829	0.815



Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	10	Side 1	0.5324	0.5208	0.5165	0.815
		Side 2	0.1485	0.1371	0.1337	0.815
		Side 3	0.5652	0.5534	0.5488	0.815
		Side 4	0.2502	0.2376	0.2330	0.815
		Top	0.5294	0.5164	0.5122	0.815

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	10	Side 1	0.3264	0.3133	0.3097	0.815
		Side 2	0.1530	0.1377	0.1343	0.815
		Side 3	0.3307	0.3169	0.3121	0.815
		Side 4	0.1901	0.1785	0.1744	0.815
		Top	0.3234	0.3094	0.3043	0.815

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
134 kHz	15	Side 1	0.4572	0.4431	0.4391	0.815
		Side 2	0.0796	0.0640	0.0589	0.815
		Side 3	0.4904	0.4759	0.4709	0.815
		Side 4	0.1811	0.1657	0.1605	0.815
		Top	0.4778	0.4652	0.4614	0.815





Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
134 kHz	15	Side 1	0.2051	0.1902	0.1855	0.815
		Side 2	0.0987	0.0843	0.0812	0.815
		Side 3	0.2114	0.1992	0.1953	0.815
		Side 4	0.1192	0.1075	0.1039	0.815
		Top	0.2048	0.1943	0.1894	0.815

6 Photographs- RF exposure setup

Refer to RF Exposure Setup Photos.

- End of the Report -



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