

# ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

**Test Report No.** : OT-19N-RWD-043  
**AGR No.** : A190A-294  
**Applicant** : BROS&COMPANY INC.  
**Address** : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea  
**Manufacturer** : Shenzhen Boli Technology Co.,Ltd  
**Address** : 301, No.5177, Yiyuan Rd, 74 Area, Buxin Community, Xin'an Street, Baoan District, Shenzhen  
**Type of Equipment** : HANDS3 SPLIT  
**FCC ID.** : 2AQIS-POUT-02201  
**Model Name** : POUT-02201  
**Serial number** : N/A  
**Total page of Report** : 21 pages (including this page)  
**Date of Incoming** : October 29, 2019  
**Date of issue** : November 22, 2019

## SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 1.1310 and 2.1093**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

  
 Reviewed by: \_\_\_\_\_  
 Ha-Ram Lee / Assistant Manager  
 ONETECH Corp.

  
 Approved by: \_\_\_\_\_  
 Jae-Ho Lee / Chief Engineer  
 ONETECH Corp.

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**Revision History**

Issue Report No.	Issued Date	Revisions	Effect Section
OT-19N-RWD-043	November 22, 2019	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : BROS&COMPANY INC.  
 Address : A-402, InnoValley, 253, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea  
 Contact Person : KIYEOL PARK / CEO  
 Telephone No. : +82-31-286-8646  
 FCC ID : 2AQIS-POUT-02201  
 Model Name : POUT-02201  
 Serial Number : N/A  
 Date : November 22, 2019

EQUIPMENT CLASS	<b>DCD – Part 15 Low Power Transmitter Below 1 705 kHz</b>
KIND OF EQUIPMENT	HANDS3 SPLIT
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC CFR 47 PART 1.1310 and 2.1093
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. GENERAL INFORMATION

### 2.1 Product Description

The BROS&COMPANY INC., Model: POUT-02201 (referred to as the EUT in this report) is a HANDS3 SPLIT. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	HANDS3 SPLIT
OPERATING FREQUENCY	111 kHz ~ 150 kHz
RATED RF OUTPUT POWER	81.20 dB $\mu$ V/m
ANTENNA TYPE	Coil Antenna
MODULATION	ASK
RATED SUPPLY VOLTAGE	DC 5.0 V, DC 9.0 V, DC 12.0 V

### 2.2 Model Differences

-. None

## 3. EUT MODIFICATIONS

-. None

## 4. RADIO FREQUENCY EXPOSURE

### 4.1 Environmental evaluation and exposure limit

According to FCC 1.1310 : 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm <sup>2</sup> ]	Average Time [minutes]
(A) Limits for Occupational / Control Exposures				
0.3 – 3.0	614	1.63	*(100)	6
3.0 – 30	1 842/f	4.89/f	*(900/f <sup>2</sup> )	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500			f/300	6
1 500 – 100 000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	*(100)	30
3.0 – 30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30 – 300	27.5	0.073	0.2	30
300 – 1 500			f/1 500	30
1 500 – 100 000			1.0	30

f = frequency in MHz

\* = Plane wave equivalent power density

Note 1 to Table 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

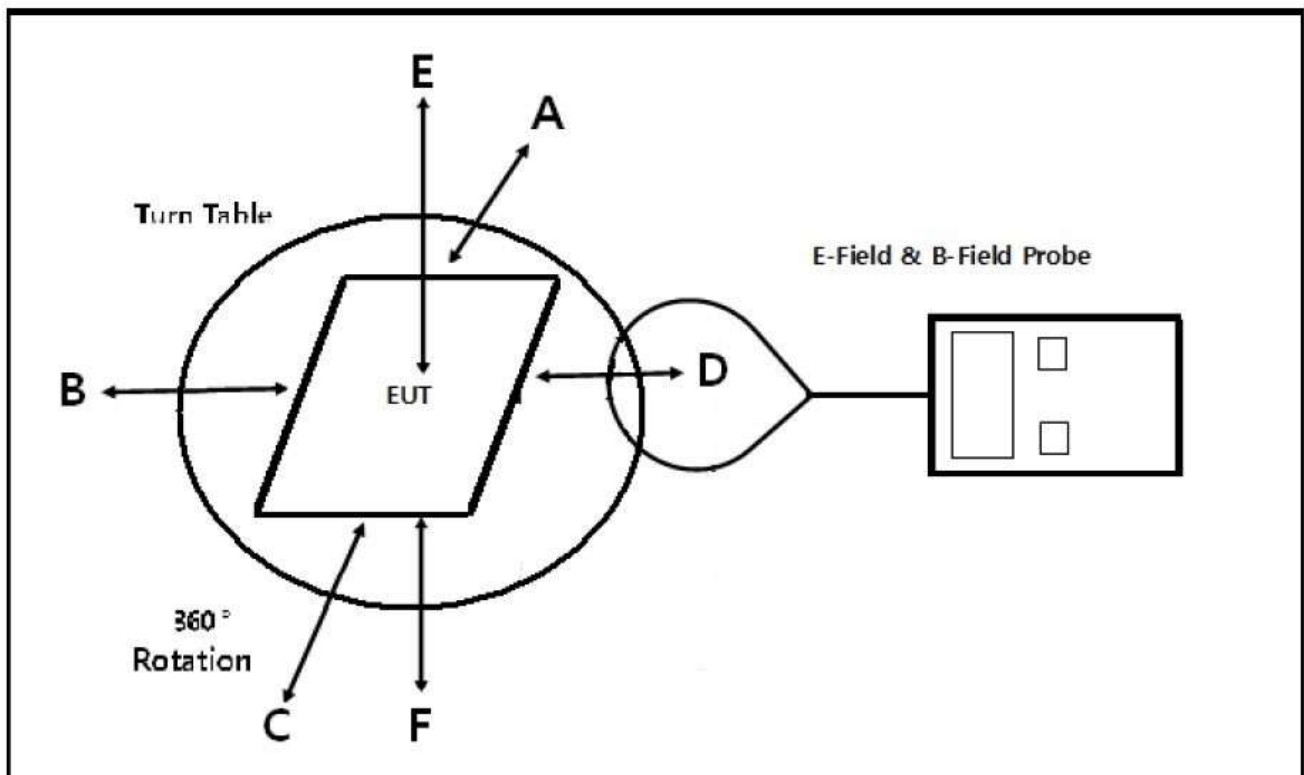
The EUT does meet the requirement of section 5.2 of KDB 680106

1. Power transfer frequency is less than 1MHz
2. Output power from each primary coil is less than 15 watts.
3. The transfer system includes only single primary and secondary coils.
4. Client devices is inserted in or placed directly in contact with the transmitter.
5. The device is applied for Portable condition regarding the RF exposure.

## 4.2 H / E field strength

### 4.2.1 EUT Operating condition

Mode	Charging current	Description
Charging Mode With load	1 000 mA	Using Max load
	500 mA	Using Mid load
	100 mA	Using Min load



### 4.2.2 Measurement procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) H-field measurement from all sides and top of the DUT from 0 cm up to 10 cm at the increment of 2cm.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

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



**4.2.3 Test Data for 5V**

**4.2.3.1 E - field strength**

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	106.53	88.57	94.56	97.55	126.58	85.58	307.00	0
Charging Mode With Mid. load	105.63	87.68	93.06	96.05	125.68	84.08		
Charging Mode With Min. load	103.24	86.18	90.97	94.26	123.58	81.69		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	103.53	84.98	91.86	93.96	123.88	82.59	307.00	2
Charging Mode With Mid. load	102.04	83.19	91.27	92.46	122.09	80.79		
Charging Mode With Min. load	100.24	81.69	90.07	90.67	120.59	79.00		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	99.64	81.39	87.68	89.77	120.59	78.10	307.00	4
Charging Mode With Mid. load	99.05	80.19	87.08	88.87	119.69	77.50		
Charging Mode With Min. load	97.25	78.10	84.68	86.78	117.90	76.30		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	93.06	76.90	82.29	84.08	114.01	72.41	307.00	6
Charging Mode With Mid. load	91.27	75.71	80.49	83.19	112.81	71.22		
Charging Mode With Min. load	88.87	74.21	78.70	80.79	111.02	69.12		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	84.38	67.03	74.81	76.60	104.13	63.14	307.00	8
Charging Mode With Mid. load	83.19	65.23	74.21	75.71	102.94	62.24		
Charging Mode With Min. load	81.69	62.84	72.12	73.31	100.84	60.45		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	71.52	55.36	62.54	65.53	92.16	51.77	307.00	10
Charging Mode With Mid. load	70.92	54.46	61.34	63.74	90.97	49.97		
Charging Mode With Min. load	69.42	52.07	60.15	62.54	88.87	48.18		

**4.2.3.2 H - field strength**

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.283	0.236	0.252	0.260	0.337	0.228	0.815	0
Charging Mode With Mid. load	0.281	0.233	0.248	0.256	0.334	0.224		
Charging Mode With Min. load	0.275	0.229	0.242	0.251	0.329	0.217		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.275	0.226	0.244	0.250	0.330	0.220	0.815	2
Charging Mode With Mid. load	0.271	0.221	0.243	0.246	0.325	0.215		
Charging Mode With Min. load	0.267	0.217	0.240	0.241	0.321	0.210		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.265	0.217	0.233	0.239	0.321	0.208	0.815	4
Charging Mode With Mid. load	0.264	0.213	0.232	0.236	0.318	0.206		
Charging Mode With Min. load	0.259	0.208	0.225	0.231	0.314	0.203		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.248	0.205	0.219	0.224	0.303	0.193	0.815	6
Charging Mode With Mid. load	0.243	0.201	0.214	0.221	0.300	0.189		
Charging Mode With Min. load	0.236	0.197	0.209	0.215	0.295	0.184		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.225	0.178	0.199	0.204	0.277	0.168	0.815	8
Charging Mode With Mid. load	0.221	0.174	0.197	0.201	0.274	0.166		
Charging Mode With Min. load	0.217	0.167	0.192	0.195	0.268	0.161		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.190	0.147	0.166	0.174	0.245	0.138	0.815	10
Charging Mode With Mid. load	0.189	0.145	0.163	0.170	0.242	0.133		
Charging Mode With Min. load	0.185	0.139	0.160	0.166	0.236	0.128		



**Tested by: Sieon Lee / Assistant Manager**

**4.2.4 Test Data for 9V**

**4.2.4.1 E - field strength**

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	108.02	91.57	97.55	100.24	128.67	87.08	307.00	0
Charging Mode With Mid. load	107.13	89.77	95.75	98.75	127.17	85.58		
Charging Mode With Min. load	104.73	87.97	93.36	96.95	125.98	83.19		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	105.63	88.57	94.86	98.15	125.68	83.79	307.00	2
Charging Mode With Mid. load	104.73	87.68	93.96	97.55	125.08	83.19		
Charging Mode With Min. load	102.64	85.88	92.16	96.05	123.58	81.69		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	101.14	84.98	91.57	94.86	122.39	79.30	307.00	4
Charging Mode With Mid. load	100.54	83.79	90.97	93.66	121.19	78.10		
Charging Mode With Min. load	98.45	82.29	89.47	92.46	119.09	76.90		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	93.66	80.49	86.48	88.57	115.20	72.71	307.00	6
Charging Mode With Mid. load	92.46	79.30	85.28	86.78	114.31	71.52		
Charging Mode With Min. load	90.37	76.90	82.89	85.58	113.11	69.42		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	84.38	72.41	76.90	81.09	106.83	64.93	307.00	8
Charging Mode With Mid. load	83.19	71.52	75.11	79.30	105.93	63.14		
Charging Mode With Min. load	81.99	69.72	73.01	77.50	103.83	61.34		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	71.22	61.34	64.04	68.82	96.35	54.46	307.00	10
Charging Mode With Mid. load	70.32	60.15	62.84	67.63	95.46	53.86		
Charging Mode With Min. load	69.12	58.65	61.34	66.13	93.36	51.47		

**4.2.4.2 H - field strength**

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.287	0.244	0.260	0.267	0.342	0.232	0.815	0
Charging Mode With Mid. load	0.285	0.239	0.255	0.263	0.338	0.228		
Charging Mode With Min. load	0.279	0.234	0.248	0.258	0.335	0.221		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.281	0.236	0.252	0.261	0.334	0.223	0.815	2
Charging Mode With Mid. load	0.279	0.233	0.250	0.260	0.333	0.221		
Charging Mode With Min. load	0.273	0.229	0.245	0.256	0.329	0.217		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.269	0.226	0.244	0.252	0.326	0.211	0.815	4
Charging Mode With Mid. load	0.268	0.223	0.242	0.249	0.322	0.208		
Charging Mode With Min. load	0.262	0.219	0.238	0.246	0.317	0.205		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.249	0.214	0.230	0.236	0.307	0.193	0.815	6
Charging Mode With Mid. load	0.246	0.211	0.227	0.231	0.304	0.190		
Charging Mode With Min. load	0.240	0.205	0.221	0.228	0.301	0.185		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.225	0.193	0.205	0.216	0.284	0.173	0.815	8
Charging Mode With Mid. load	0.221	0.190	0.200	0.211	0.282	0.168		
Charging Mode With Min. load	0.218	0.186	0.194	0.206	0.276	0.163		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.189	0.163	0.170	0.183	0.256	0.145	0.815	10
Charging Mode With Mid. load	0.187	0.160	0.167	0.180	0.254	0.143		
Charging Mode With Min. load	0.184	0.156	0.163	0.176	0.248	0.137		



**Tested by: Sieon Lee / Assistant Manager**



**4.2.5 Test Data for 12V**

**4.2.5.1 E - field strength**

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	108.02	90.37	96.65	99.35	128.07	87.97	307.00	0
Charging Mode With Mid. load	107.42	89.77	95.75	97.55	127.47	86.18		
Charging Mode With Min. load	105.03	87.38	93.36	96.35	125.68	84.98		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	104.43	88.27	93.36	95.75	125.68	84.68	307.00	2
Charging Mode With Mid. load	102.64	87.38	92.46	94.56	125.08	83.49		
Charging Mode With Min. load	100.24	85.88	91.27	93.36	122.99	81.39		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	100.24	83.79	90.37	91.57	121.19	81.39	307.00	4
Charging Mode With Mid. load	99.64	82.59	88.57	90.97	119.69	80.79		
Charging Mode With Min. load	97.85	81.09	86.48	88.87	117.90	79.60		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	94.56	77.80	84.38	85.28	115.20	75.41	307.00	6
Charging Mode With Mid. load	92.76	76.30	82.59	83.79	114.31	74.81		
Charging Mode With Min. load	90.67	74.21	80.79	81.39	112.51	72.41		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	86.78	67.63	75.71	75.41	107.13	67.63	307.00	8
Charging Mode With Mid. load	85.58	67.03	74.51	74.81	105.63	66.43		
Charging Mode With Min. load	83.49	65.83	72.12	72.71	104.43	64.34		

Mode	Position A [V/m]	Position B [V/m]	Position C [V/m]	Position D [V/m]	Position E [V/m]	Position F [V/m]	50% Limits [V/m]	Test Distance [cm]
Charging Mode With Max. load	74.21	55.36	62.84	64.34	96.05	57.15	307.00	10
Charging Mode With Mid. load	73.31	53.86	61.34	62.54	95.16	55.66		
Charging Mode With Min. load	71.22	51.77	59.85	60.45	93.96	53.56		

**4.2.5.2 H - field strength**

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.287	0.240	0.257	0.264	0.341	0.234	0.815	0
Charging Mode With Mid. load	0.286	0.239	0.255	0.260	0.339	0.229		
Charging Mode With Min. load	0.279	0.232	0.248	0.256	0.334	0.226		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.278	0.235	0.248	0.255	0.334	0.225	0.815	2
Charging Mode With Mid. load	0.273	0.232	0.246	0.252	0.333	0.222		
Charging Mode With Min. load	0.267	0.229	0.243	0.248	0.327	0.217		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.267	0.223	0.240	0.244	0.322	0.217	0.815	4
Charging Mode With Mid. load	0.265	0.220	0.236	0.242	0.318	0.215		
Charging Mode With Min. load	0.260	0.216	0.230	0.236	0.314	0.212		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.252	0.207	0.225	0.227	0.307	0.201	0.815	6
Charging Mode With Mid. load	0.247	0.203	0.220	0.223	0.304	0.199		
Charging Mode With Min. load	0.241	0.197	0.215	0.217	0.299	0.193		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.231	0.180	0.201	0.201	0.285	0.180	0.815	8
Charging Mode With Mid. load	0.228	0.178	0.198	0.199	0.281	0.177		
Charging Mode With Min. load	0.222	0.175	0.192	0.193	0.278	0.171		

Mode	Position A [A/m]	Position B [A/m]	Position C [A/m]	Position D [A/m]	Position E [A/m]	Position F [A/m]	50% Limits [A/m]	Test Distance [cm]
Charging Mode With Max. load	0.197	0.147	0.167	0.171	0.256	0.152	0.815	10
Charging Mode With Mid. load	0.195	0.143	0.163	0.166	0.253	0.148		
Charging Mode With Min. load	0.189	0.138	0.159	0.161	0.250	0.143		



**Tested by: Sieon Lee / Assistant Manager**

**5. LIST OF TEST EQUIPMENT**

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1	Exposure Level Meter	NARDA	ELT-400	H-0013	Jun. 04, 2019	One Year	■