

FCC ID:	A3LSMN970U
Date:	07/11/2019
Test Procedure:	KDB 680106 D01 v03

E Measurements (V/m)	10% Battery		50% Battery		70% Battery		Limit (V/m)
	Distance from probe (cm)		Distance from probe (cm)		Distance from probe (cm)		
	15	20	15	20	15	20	
A (Bottom)	0.117	0.117	0.129	0.129	0.136	0.117	614.00
B (Right)	0.130	0.129	0.130	0.130	0.129	0.117	614.00
C (Top)	0.129	0.130	0.129	0.117	0.157	0.130	614.00
D (Left)	0.129	0.147	0.130	0.129	0.129	0.129	614.00
E (Front)	0.147	0.141	0.117	0.147	0.117	0.129	614.00
F (Back)	0.129	0.136	0.136	0.129	0.136	0.117	614.00

Table 1. E-field Measurement by distance/battery level (D2D - 148kHz)

H Measurements (A/m)	10% Battery		50% Battery		70% Battery		Limit (A/m)
	Distance from probe (cm)		Distance from probe (cm)		Distance from probe (cm)		
	15	20	15	20	15	20	
A (Bottom)	0.010	0.010	0.009	0.009	0.009	0.009	1.63
B (Right)	0.010	0.010	0.010	0.010	0.010	0.010	1.63
C (Top)	0.009	0.010	0.009	0.010	0.009	0.010	1.63
D (Left)	0.009	0.009	0.010	0.010	0.009	0.010	1.63
E (Front)	0.009	0.009	0.010	0.009	0.010	0.009	1.63
F (Back)	0.010	0.009	0.009	0.010	0.009	0.010	1.63

Table 2. H-field Measurement by distance/battery level (D2D - 148kHz)

Frequency [MHz]	Probe Orientation (X, Y, Z)	Distance (cm)	Operational Correction Factor	Corrected H-field (A/m)						Limit [A/m]
				EUT Sides						
				A	B	C	D	E	F	
0.594	X	15.0	0.233	0.002287	0.002287	0.002450	0.002147	0.002287	0.002543	1.63
0.594	X	5.0	0.233	0.003150	0.010383	0.006137	0.003407	0.007467	0.016870	1.63
0.594	X	4.0	0.233						0.026647	1.63
0.594	X	3.0	0.233						0.041067	1.63
0.594	X	2.0	0.233						0.051287	1.63
0.594	X	1.0	0.233						0.117833	1.63
0.594	X	0.0	0.233						0.164103	1.63

Table 3. H-field Measurement by distance (D2P)

Frequency [MHz]	Probe Orientation (X, Y, Z)	Distance (cm)	Operational Correction Factor	Corrected H-field (A/m)	Limit [A/m]
				EUT Sides	
				F	
0.594	X	5.0	0.233	0.016777	1.63
0.594	Y	5.0	0.233	0.015276	1.63
0.594	Z	5.0	0.233	0.016368	1.63

Table 3. H-field Isotropy Measurement (D2P)

A	B	C	D	E	F
BOTTOM EDGE	RIGHT EDGE	TOP EDGE	LEFT EDGE	FRONT (SCREEN)	Back

Table 4. EUT Position Description

Note:

The right and left edge are determined with the EUT screen facing the user.

Corrected H-Field measurement

- $0.5833 \text{ A/m} * 0.233 = 0.136103 \text{ A/m}$

Operational Correction Factor

The EUT charges for 7 minutes at maximum illumination to full charge. It recharges at maximum illumination when 10% or more of the battery level drop is detected. Therefore the operational correction factor is:

Correction Factor (applied over 30 minutes) = $7/30 = 0.233$.

Description of Test Setup

- o Testing was performed with a calibrated field probe.
- o Measurement was performed on each side of the EUT as described per Table 4.
- o Testing was performed at the distances and different battery level as indicated on Table 1 and Table 2.
- o Measurement procedure was performed per FCC Guidance.

Test Equipment

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Narda	EHP-200AC	Electric & Magnetic Field Probe	8/31/2018	Annual	8/31/2019	170WX60209

Conclusion: The theoretical H-field value based on approximations of the dimensions to a simple solenoid via Biot-Savart Law show good correlation for H-field and shows low H-field. Therefore per FCC discussion, SAR testing is excluded for this transmitter