

Report No. : FR182057AW



FCC Radio Test Report

FCC ID	:	2APYS-HSNL01NFM
Equipment	:	Wireless Charging Module
Brand Name	:	hp
Model Name	:	HSN-L01NFM
Applicant	:	Lanto Electronic Ltd No.399 baisheng Road, jinxi Town, Kunshan City, Jiangsu, 215324, China
Manufacturer	:	Lanto Electronic Ltd No.399 baisheng Road, jinxi Town, Kunshan City, Jiangsu, 215324, China
Standard	:	47 CFR FCC Part 15.209

The product was received on Aug. 25, 2021, and testing was started from Sep. 08, 2021 and completed on Oct. 20, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTO	HISTORY OF THIS TEST REPORT			
SUMM	ARY OF TEST RESULT4			
1	GENERAL DESCRIPTION			
1.1	Information5			
1.2	Testing Applied Standards			
1.3	Testing Location Information			
1.4	Measurement Uncertainty			
2	TEST CONFIGURATION OF EUT7			
2.1	Test Condition7			
2.2	Test Channel Mode			
2.3	The Worst Case Configuration			
2.4	The Worst Case Measurement Configuration			
2.5	Support Equipment9			
2.6	Test Setup Diagram10			
3	TRANSMITTER TEST RESULT12			
3.1	AC Power-line Conducted Emissions12			
3.2	Transmitter Radiated Emissions14			
3.3	Emission Bandwidth			
4	TEST EQUIPMENT AND CALIBRATION DATA19			
APPEN	IDIX A. AC POWER-LINE CONDUCTED EMISSIONS			

APPENDIX B.TRANSMITTER RADIATED EMISSIONS

APPENDIX C. TEST RESULT OF EMISSION BANDWIDTH

APPENDIX D. TEST PHOTOS

PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR182057AW	01	Initial issue of report	Nov. 10, 2021



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.209	Transmitter Radiated Emissions	PASS	-
3.3	15.215(c)	Emission Bandwidth	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Sam Tsai

Report Producer: Debby Hung



1 General Description

1.1 Information

1.1.1 General Information

Wireless Power Transfer General Information				
Frequency Range	Modulation	Operating Freq. (MHz)	Field Strength (dBuV/m)	
13.56 MHz	ASK	13.56	60.12	
Power Transfer Method	Output power from each primary coil	That may have multiple primary coils	Operating Method	
Magnetic induction and only single primary coil $\leq 15W$ NoClient directly contact				
Note 1: Field strength performed peak level at 3m.				

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Lbtcoil	WL1167	FPC	N/A

1.1.3 EUT Information

	Operational Condition			
EU1	Г Power Type	From Battery		
	Type of EUT			
\boxtimes	Stand-alone			
	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:			
	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
	Other:			

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle		
Operated normally mode for worst duty cycle		
Operated test mode for worst duty cycle		
Test Signal Duty Cycle (x)		
☑ 100%		



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sport	Test Lab. : Sporton International Inc. Hsinhua Laboratory				
🛛 Hsinhua	ADD: No.52, H	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785)	TEL: 886-3-32	27-3456	FAX: 886-3-327-0973		
	Test site Desig	nation No. TW37	85 with FCC.		
Test Condition	Test Site No.	Test Engineer Test Environment Test Date			
RF Conducted	TH01-HY	Barry Hsiao	24.3~26.9°C / 51~54%	10/Sep/2021	
AC Conduction	CO04-HY	Billy Wang	21.4~21.8°C / 59~60%	19/Oct/2021	
Radiated	03CH02-HY	Jack Tang	22.3~25.7°C / 51~63%	08/Sep/2021~20/Oct/2021	
U Wen 33rd. St.	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)				
(TAF: 3785)	TEL: 886-3-318-0787 FAX: 886-3-318-0287				
	Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
TnomVnom	Tnom	20°C
-	Vnom	5V

Note: AC Input Voltage of DC Power Supply: AC120V

2.2 Test Channel Mode

Test Software	N/A	
Nata, The FUT transmite DF signal continuously by itself		

Note: The EUT transmits RF signal continuously by itself

Mode	PowerSetting
WPT_Nss1_1TX	-
13.56MHz	default

2.3 The Worst Case Configuration

Mode	Field Strength (dBuV/m at 3 m)	Device Frequencies (MHz)
WPC	60.12	13.56
Note.1: Wireless device were performed all charging conditions including variable loading and non-chargoperation, the worst mode is full charging loading. Note.2: Wireless device frequencies are variable frequency range (13.56 MHz) and depend on chargonal loading.		



2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests		
Tests Item	AC power-line conducted emissions	
Condition	Condition AC power-line conducted measurement for line and neutral	
Operating Mode	СТХ	
	1. DC power supply mode	

Th	The Worst Case Mode for Following Conformance Tests			
Tests Item	Transmitter Radiated Emis	sions, Emission Bandwidth		
Test Condition	Radiated measurement			
	СТХ			
Operating Mode	1. Battery Mode			
	2. DC power supply mode			
	X Plane	Y Plane	Z Plane	
Orthogonal Planes of EUT				
Worst Planes of EUT			V	



2.5 Support Equipment

	Support Equipment – Conducted				
No.	No. Equipment Brand Name Model Name FCC ID Remark				Remark
1	DC Power Supply	GW	GPS-3030DD	-	Provided by Customer
2	RX Load Fixture	luxshare	NFC WLC RX	-	Provided by Customer

	Support Equipment – Radiated				
No.	No. Equipment Brand Name Model Name				Remark
1	Battery Box	luxshare	18650	-	Provided by Customer
2	RX Load Fixture	luxshare	NFC WLC RX	-	Provided by Customer
3	DC power supply	GW	GPS-3030DD	-	-
4	DC Power cable(+)	MiSUMi	WTN1224A-RED	-	-
5	DC Power cable(-)	MiSUMi	WTN1224A-BLACK	-	-
6	DC Power cable(+)	MiSUMi	WTN1224A-RED	-	-
7	DC Power cable(-)	MiSUMi	WTN1224A-BLACK	-	-

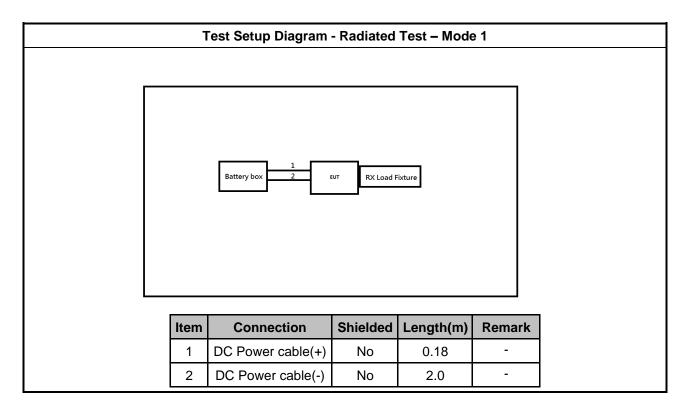
	Support Equipment – Conduction					
No.	No. Equipment Brand Name Model Name FCC ID Remark					
1	RX Load Fixture	luxshare	NFC WLC RX	-	Provided by Customer	
2	DC power supply	GW	GPS-3030DD	-	-	
3	DC Power cable(+)	MiSUMi	WTN1224A-RED	-	-	
4	DC Power cable(-)	MiSUMi	WTN1224A-BLACK	-	-	
5	DC Power cable(+)	MiSUMi	WTN1224A-RED	-	-	
6	DC Power cable(-)	MiSUMi	WTN1224A-BLACK	-	-	

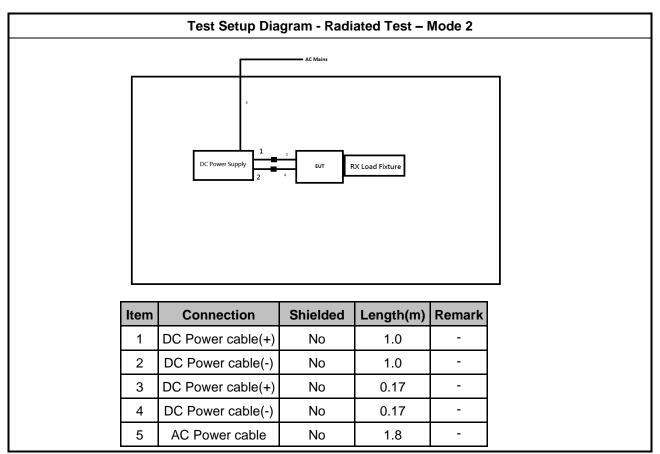


Test Setup Diagram 2.6

Test	Setup Diagram – AC	Line Condu	ucted Emiss	ion Test	
	Rr Loef	Factors EUT 4	DC powers	s Ac main upply +	
Iter	n Connection	Shielded	Length(m)	Remark	
1	DC Power cable(+)	No	1.0	-	
2	DC Power cable(-)	No	1.0	-	
3	DC Power cable(+)	No	0.17	-	
4	DC Power cable(-)	No	0.17	-	
	AC Power cable	No	1.8		









3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit			
Frequency Emission (MHz)	Quasi-Peak	Average	
0.15-0.5	66 - 56 *	56 - 46 *	
0.5-5	56	46	
5-30	60	50	
Note 1: * Decreases with the logarithm of the frequency.			

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

		Test Method
\square	Refer a	as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.
\square	If AC c	onducted emissions fall in operating band, then following below test method confirm final result.
	CC (1 F((2	ccept measurements done with a suitable dummy load replacing the antenna under the following onditions:) Perform the AC line conducted tests with the antenna connected to determine compliance with CC 15.207 limits outside the transmitter's fundamental emission band; ?) Retest with a dummy load to determine compliance with FCC 15.207 limits within the ansmitter's fundamental emission band.
	w (1 th (2	or a device with a permanent antenna operating at or below 30 MHz, accept measurements done ith a suitable dummy load, in lieu of the permanent antenna under the following conditions:) Perform the AC line conducted tests with the permanent antenna to determine compliance with the FCC 15.207 limits outside the transmitter's fundamental emission band; 2) Retest with a dummy load in lieu of the permanent antenna to determine compliance with the CC 15.207 limits within the transmitter's fundamental emission band.

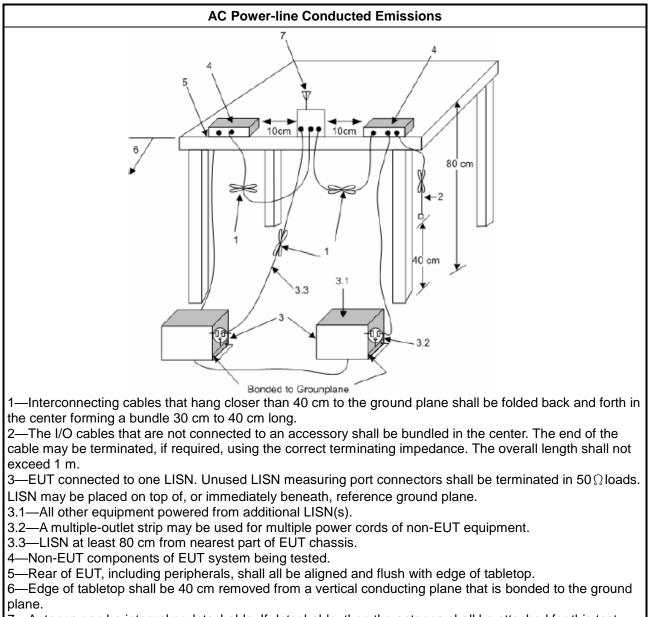
3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).



3.1.5 Test Setup



7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



3.2 Transmitter Radiated Emissions

3.2.1 Transmitter Radiated Emissions Limit

Transmitter Radiated Emissions Limit				
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)	
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300	
0.490~1.705	24000/F(kHz)	33.8 - 23	30	
1.705~30.0	30	29	30	
30~88	100	40	3	
88~216	150	43.5	3	
216~960	200	46	3	
Above 960	500	54	3	

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.
- Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.

3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.



3.2.3 **Test Procedures**

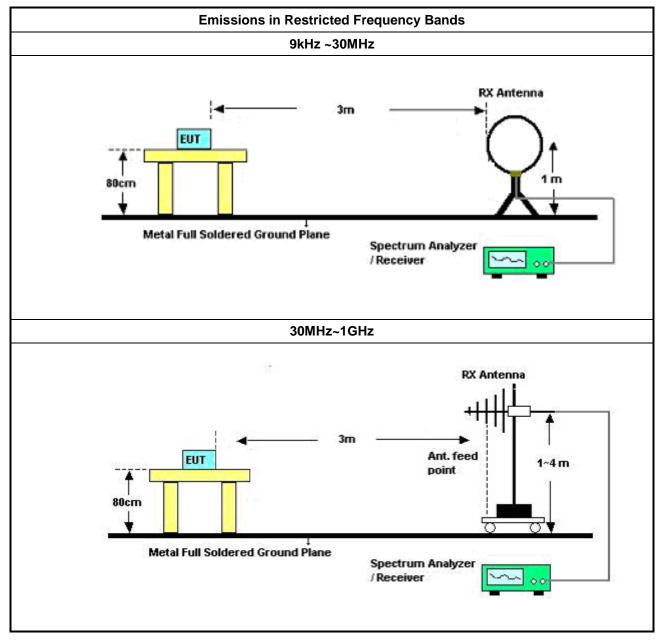
	Test Method
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3 m.
	At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods.
	The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.
	The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).
	For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.
\boxtimes	The any unwanted emissions level shall not exceed the fundamental emission level.
\boxtimes	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
\boxtimes	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.2.4 **Measurement Results Calculation**

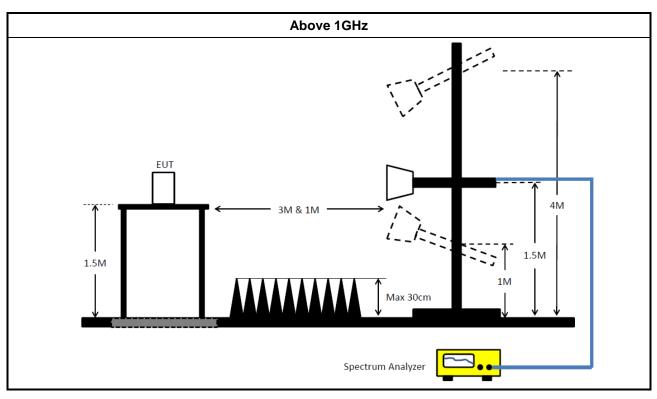
The measured Level is calculated using: Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)



3.2.5 Test Setup







3.2.6 Transmitter Radiated Emissions (Below 30MHz)

Refer as Appendix B

3.2.7 Transmitter Radiated Emissions (Above 30MHz)

Refer as Appendix B



3.3 Emission Bandwidth

3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit

N/A

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

 Test Method

 Image: Secause the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

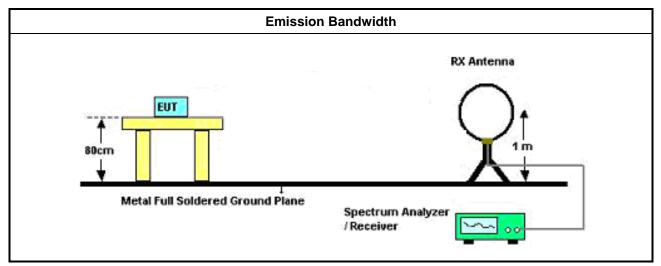
 Image: Secause the measurement bandwidth will always follow the RBW and the result will be approximately twice the RBW.

 Image: Secause the measurement bandwidth will always follow the RBW and the result will be approximately twice the RBW.

 Image: Secause the measurement bandwidth will always follow the RBW and the horizontal and vertical axis and the RBW.

For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.

3.3.4 Test Setup



3.3.5 Test Result of Emission Bandwidth

Refer as Appendix C



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022

Instrument for Conducted Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022

Instrument for Radiated Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
EMI Test Receiver R&S ESR		ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Conducted Emissions at Powerline

Summary

Mode	Result	Туре	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	27.126M	32.40	50.00	-17.60	Neutral

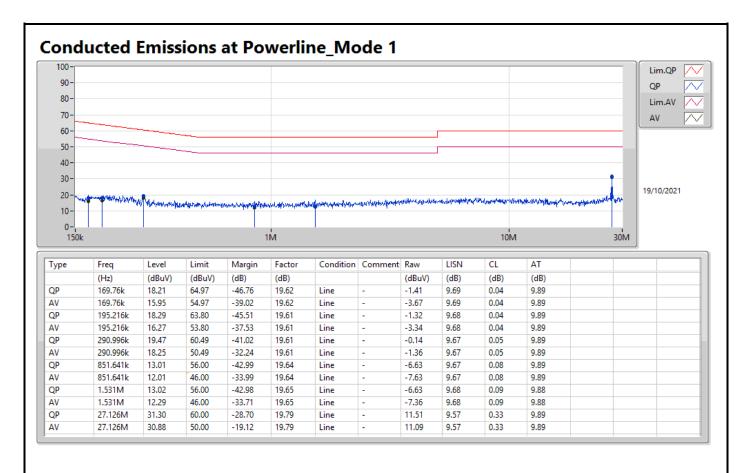


Mode config

Mode	Result	Туре	Freq	Level	Limit	Margin	Condition	Comments
			(Hz)	(dBuV)	(dBuV)	(dB)		
Mode 1	Pass	QP	169.76k	18.21	64.97	-46.76	Line	-
Mode 1	Pass	AV	169.76k	15.95	54.97	-39.02	Line	-
Mode 1	Pass	QP	195.216k	18.29	63.80	-45.51	Line	-
Mode 1	Pass	AV	195.216k	16.27	53.80	-37.53	Line	-
Mode 1	Pass	QP	290.996k	19.47	60.49	-41.02	Line	-
Mode 1	Pass	AV	290.996k	18.25	50.49	-32.24	Line	-
Mode 1	Pass	QP	851.641k	13.01	56.00	-42.99	Line	-
Mode 1	Pass	AV	851.641k	12.01	46.00	-33.99	Line	-
Mode 1	Pass	QP	1.531M	13.02	56.00	-42.98	Line	-
Mode 1	Pass	AV	1.531M	12.29	46.00	-33.71	Line	-
Mode 1	Pass	QP	27.126M	31.30	60.00	-28.70	Line	-
Mode 1	Pass	AV	27.126M	30.88	50.00	-19.12	Line	-
Mode 1	Pass	QP	151.202k	19.42	65.92	-46.50	Neutral	-
Mode 1	Pass	AV	151.202k	17.84	55.92	-38.08	Neutral	-
Mode 1	Pass	QP	290.996k	19.53	60.49	-40.96	Neutral	-
Mode 1	Pass	AV	290.996k	18.12	50.49	-32.37	Neutral	-
Mode 1	Pass	QP	290.996k	19.40	60.49	-41.09	Neutral	-
Mode 1	Pass	AV	290.996k	18.07	50.49	-32.42	Neutral	-
Mode 1	Pass	QP	897.004k	13.15	56.00	-42.85	Neutral	-
Mode 1	Pass	AV	897.004k	12.07	46.00	-33.93	Neutral	-
Mode 1	Pass	QP	2.31M	13.73	56.00	-42.27	Neutral	-
Mode 1	Pass	AV	2.31M	12.90	46.00	-33.10	Neutral	-
Mode 1	Pass	QP	27.126M	32.75	60.00	-27.25	Neutral	-
Mode 1	Pass	AV	27.126M	32.40	50.00	-17.60	Neutral	-

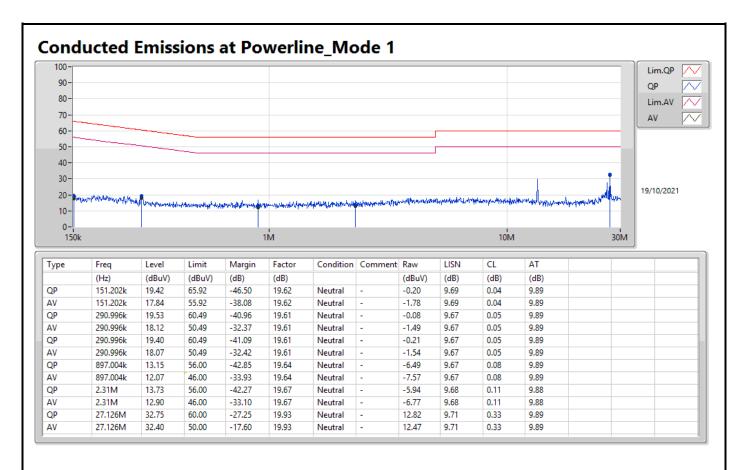


Appendix A





Appendix A





Summary

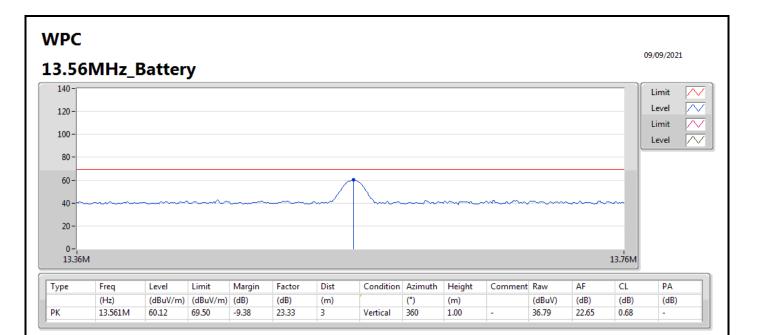
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
WPT	-	-	-	-	-	-	-	-	-	-	-	-
WPC	Pass	PK	13.561M	60.12	69.50	-9.38	23.33	3	Vertical	360	1.00	-



Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
WPC	-	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	13.561M	60.12	69.50	-9.38	23.33	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	34.944k	58.52	116.73	-58.21	21.43	3	Vertical	0	1.00	-
13.56MHz_Battery	Pass	PK	112.212k	46.94	106.59	-59.65	20.19	3	Vertical	0	1.00	-
13.56MHz_Battery	Pass	PK	50.172k	49.06	113.59	-64.53	21.22	3	Vertical	0	1.00	-
13.56MHz_Battery	Pass	PK	388.8k	57.87	95.80	-37.93	20.72	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	985.8k	47.40	67.74	-20.34	20.71	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	2.896M	44.63	69.50	-24.87	20.53	3	Vertical	360	1.00	-

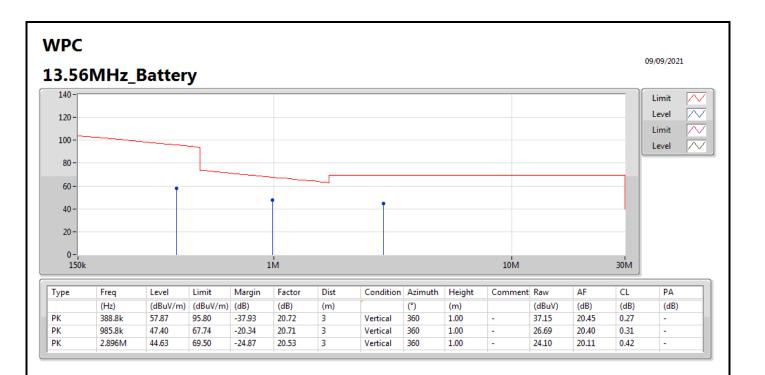






WPC 09/09/2021 13.56MHz_Battery 140-Limit \sim \sim Level 120- \sim Limit 100 - \sim Level 80 -60 -40-20 -0-9k 10k 100k 150k Margin PΑ Туре Freq Level Limit Factor Dist Condition Azimuth Height Comment Raw AF CL (Hz) (dBuV/m) (dBuV/m) (dB) (dB) (m) (dBuV) (dB) (dB) (dB) (m) (°) РК 34.944k 1.00 58.52 116.73 -58.21 21.43 Vertical _ 37.09 0.22 3 0 21.21 PK 112.212k 46.94 106.59 -59.65 20.19 3 Vertical 0 1.00 -26.75 19.96 0.23 -PK 50.172k 49.06 113.59 -64.53 21.22 3 Vertical 0 1.00 -27.84 21.00 0.22







Summary

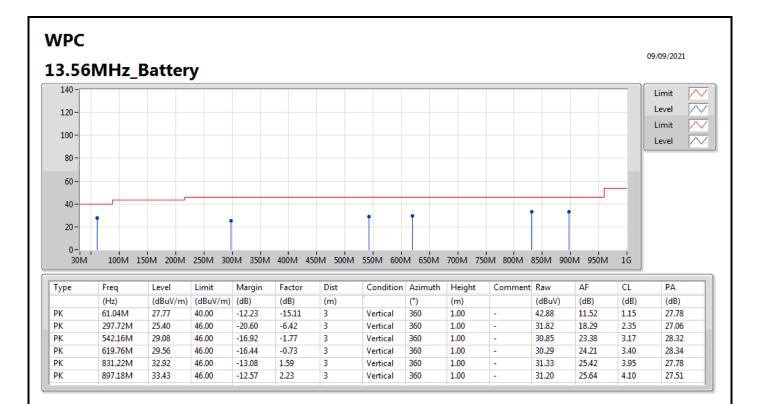
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
WPT	-	-	-	-	-	-	-	-	-	-	-	-
WPC	Pass	PK	66.86M	34.28	40.00	-5.72	-15.21	3	Vertical	360	1.00	-



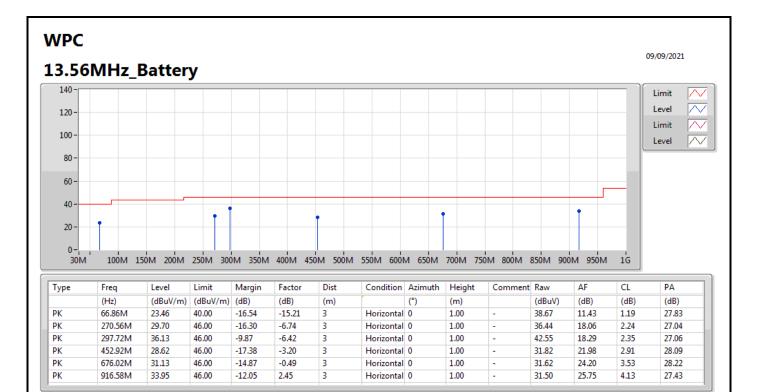
Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
WPC	-	-	-	-	-	-	-	-	-	-	-	-
13.56MHz_Battery	Pass	PK	61.04M	27.77	40.00	-12.23	-15.11	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	297.72M	25.40	46.00	-20.60	-6.42	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	542.16M	29.08	46.00	-16.92	-1.77	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	619.76M	29.56	46.00	-16.44	-0.73	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	831.22M	32.92	46.00	-13.08	1.59	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	897.18M	33.43	46.00	-12.57	2.23	3	Vertical	360	1.00	-
13.56MHz_Battery	Pass	PK	66.86M	23.46	40.00	-16.54	-15.21	3	Horizontal	0	1.00	-
13.56MHz_Battery	Pass	PK	270.56M	29.70	46.00	-16.30	-6.74	3	Horizontal	0	1.00	-
13.56MHz_Battery	Pass	PK	297.72M	36.13	46.00	-9.87	-6.42	3	Horizontal	0	1.00	-
13.56MHz_Battery	Pass	PK	452.92M	28.62	46.00	-17.38	-3.20	3	Horizontal	0	1.00	-
13.56MHz_Battery	Pass	PK	676.02M	31.13	46.00	-14.87	-0.49	3	Horizontal	0	1.00	-
13.56MHz_Battery	Pass	PK	916.58M	33.95	46.00	-12.05	2.45	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	66.86M	34.28	40.00	-5.72	-15.21	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	161.92M	22.24	43.50	-21.26	-10.63	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	264.74M	25.22	46.00	-20.78	-6.23	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	392.78M	26.68	46.00	-19.32	-4.43	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	565.44M	30.24	46.00	-15.76	-1.15	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	765.26M	31.96	46.00	-14.04	0.70	3	Vertical	360	1.00	-
13.56MHz_DC Power Supply	Pass	PK	55.22M	32.13	40.00	-7.87	-14.62	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	66.86M	31.89	40.00	-8.11	-15.21	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	161.92M	28.59	43.50	-14.91	-10.63	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	229.82M	25.81	46.00	-20.19	-9.77	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	604.24M	31.52	46.00	-14.48	-1.08	3	Horizontal	0	1.00	-
13.56MHz_DC Power Supply	Pass	PK	868.08M	32.87	46.00	-13.13	2.00	3	Horizontal	0	1.00	-

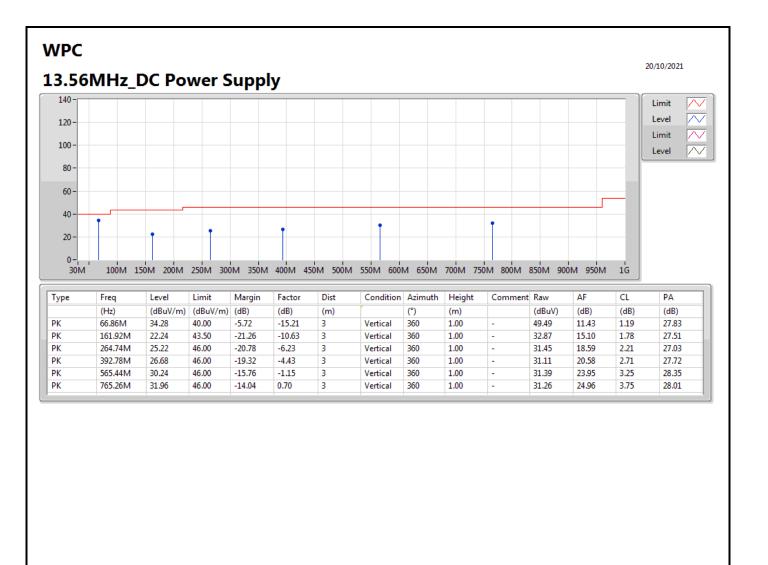




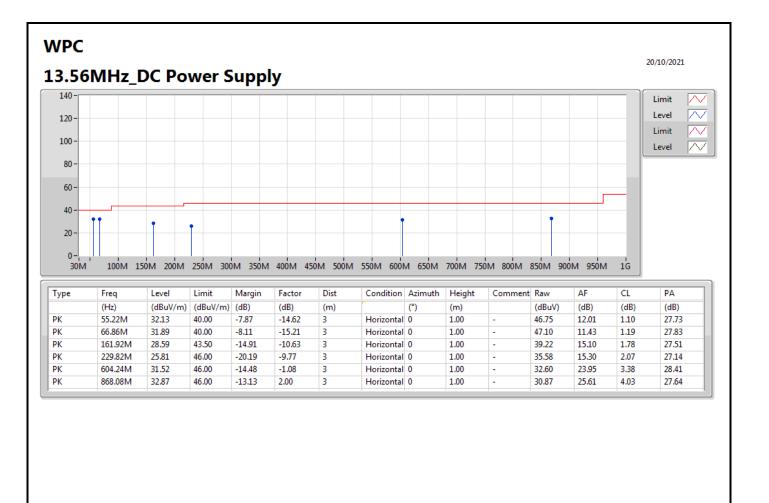














Summary

Mode	20dB (Hz)	FI-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Limit (Range)
13.553-13.567MHz	-	-	-	-	-
WPT_Nss1_1TX	2.59k	13.55899M	13.56158M	2.195k	13.553-13.567

Result

Mode	Result	20dB	FI-20dB	Fh-20dB	OBW	FI-OBW	Fh-OBW	Limit
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Range)
WPT_Nss1_1TX	-	-	-	-	-	-	-	-
13.56MHz_TnomVnom	Pass	2.59k	13.55899M	13.56158M	2.195k	13.55918M	13.56137M	13.553-13.567



Appendix C

