



RF MEASUREMENT REPORT

FCC ID: HD5-CT70VDWL
Applicant: Honeywell International Inc
Product: Vehicle Dock
Model No.: CT70-VD-WL
Brand Name: Honeywell
FCC Rule Part(s): FCC Part 2.1091
Result: Complies
Test Date: 2025-12-02

Reviewed By:

Denise Zhou

Denise Zhou

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1024112-U401	V01	Initial Report	2025-12-09	Invalid
R25S1024112-U401	V02	Correct WPT specification and test mode	2025-12-17	Valid

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1.4. Product Information

Product Name	Vehicle Dock
Model No.	CT70-VD-WL
Brand Name	Honeywell
Bluetooth Specification	Dual mode, (BR/EDR& BLE 1M)
WPT Specification	110.1 ~ 148 kHz
Antenna Specification	Refer to Section 1.5
Operating Temp.	-20 ~ 50 °C
Power Type	Battery (12 VDC & 24 VDC)
Max. Output Power	15 W
Notes: 1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer. 2. There is no difference between product in 12 V supply and in 24 V supply; after evaluating, we select 12 V supply to test.	

1.5. Radio Specification

Frequency Range	110.1 ~ 148 kHz
Modulation	ASK & FSK
Antenna Type	Coil Antenna

2. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Broadband Field Meter	narda	NBM 550	MRTSUE06897	3 years	2026-10-26	SIP-AC3
B-Field Probe	narda	100 cm ²	MRTSUE06919	3 years	2026-10-29	SIP-AC3
Exposure Level Tester	narda	ELT-400	MRTSUE06920	3 years	2026-10-29	SIP-AC3
H-Field Probe	narda	HF 3061	MRTSUE06921	3 years	2026-10-26	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2026-10-28	SIP-AC3

3. Measurement Uncertainty

Magnetic Field Emissions (A/m)
1 Hz-10 Hz: 12.74%
10 Hz-120 kHz: 2.91%
120 kHz-400 kHz: 3.98%
Electric Field Emissions (V/m)
100 kHz-6.5 GHz: 39.42%

4. Test Result

4.1. Test Limits

§1.1310 Radiofrequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

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/ Control 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
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
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
300-1,500	--	--	f/1500	30
1,500-100,000	--	--	1.0	30

f= Frequency in MHz

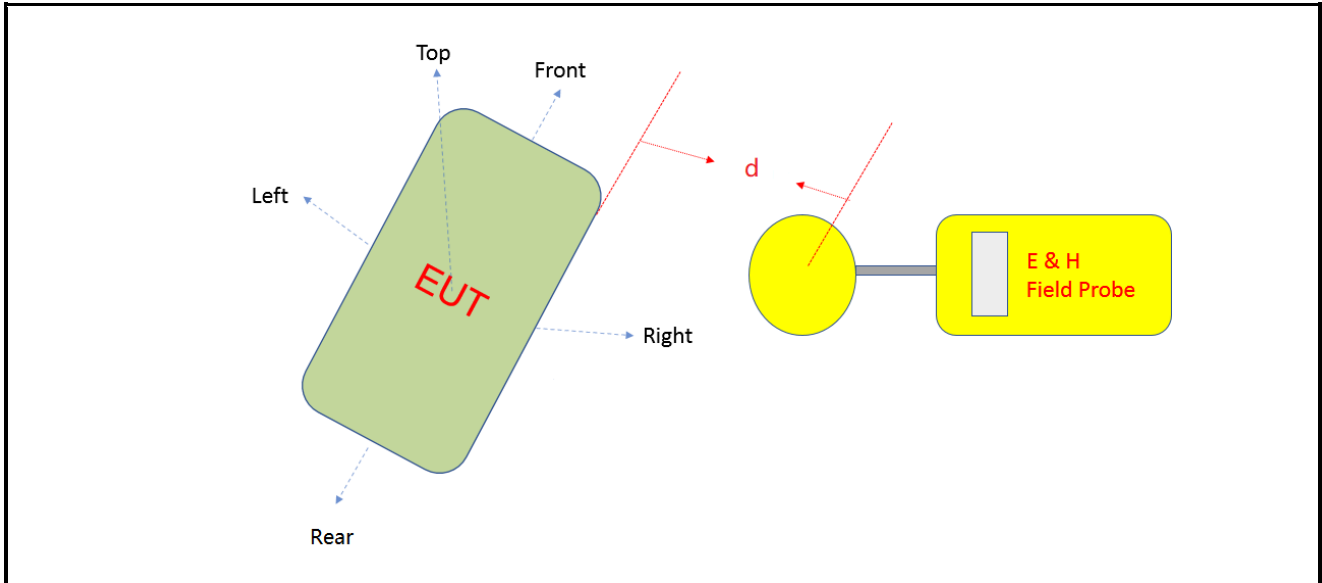
* = Plane-wave equivalent power density

4.2. Test Mode

Mode 1: Standby Mode at Frequency 110.1 ~ 148 kHz.

Mode 2: Charge the Mobile Phone at Frequency 110.1 ~ 148 kHz.

4.3. Test Setup



Notes:

1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
2. $d = 5, 6, 8, 10, 20$ cm.

4.4. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75%RH

4.5. Test Result

Test Site	SIP-AC3	Test Engineer	Chase Zhu
Test Date	2025-12-02	Test Mode	Mode 1

Electric Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	Result
Front	20	0.49	614	Pass
Rear	20	0.46	614	Pass
Left	20	0.47	614	Pass
Right	20	0.48	614	Pass
Top	20	0.44	614	Pass
Bottom	20	0.45	614	Pass
Magnetic Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	Result
Front	5	0.282	1.63	Pass
Rear	5	0.252	1.63	Pass
Left	5	0.241	1.63	Pass
Right	5	0.238	1.63	Pass
Top	5	0.243	1.63	Pass
Bottom	5	0.217	1.63	Pass
Front	6	0.286	1.63	Pass
Rear	6	0.254	1.63	Pass
Left	6	0.234	1.63	Pass
Right	6	0.237	1.63	Pass
Top	6	0.233	1.63	Pass
Bottom	6	0.216	1.63	Pass
Front	8	0.250	1.63	Pass
Rear	8	0.242	1.63	Pass
Left	8	0.224	1.63	Pass
Right	8	0.226	1.63	Pass
Top	8	0.222	1.63	Pass
Bottom	8	0.214	1.63	Pass
Front	10	0.238	1.63	Pass
Rear	10	0.232	1.63	Pass
Left	10	0.219	1.63	Pass

Right	10	0.218	1.63	Pass
Top	10	0.218	1.63	Pass
Bottom	10	0.214	1.63	Pass

Test Site	SIP-AC3	Test Engineer	Chase Zhu
Test Date	2025-12-02	Test Mode	Mode 2

Electric Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	Result
Front	20	0.62	614	Pass
Rear	20	0.58	614	Pass
Left	20	0.59	614	Pass
Right	20	0.60	614	Pass
Top	20	0.50	614	Pass
Bottom	20	0.48	614	Pass
Magnetic Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	Result
Front	5	0.529	1.63	Pass
Rear	5	0.418	1.63	Pass
Left	5	0.468	1.63	Pass
Right	5	0.430	1.63	Pass
Top	5	0.267	1.63	Pass
Bottom	5	0.234	1.63	Pass
Front	6	0.509	1.63	Pass
Rear	6	0.439	1.63	Pass
Left	6	0.392	1.63	Pass
Right	6	0.357	1.63	Pass
Top	6	0.242	1.63	Pass
Bottom	6	0.228	1.63	Pass
Front	8	0.370	1.63	Pass
Rear	8	0.425	1.63	Pass
Left	8	0.285	1.63	Pass
Right	8	0.322	1.63	Pass
Top	8	0.230	1.63	Pass
Bottom	8	0.221	1.63	Pass
Front	10	0.370	1.63	Pass
Rear	10	0.425	1.63	Pass
Left	10	0.285	1.63	Pass
Right	10	0.322	1.63	Pass



Top	10	0.230	1.63	Pass
Bottom	10	0.221	1.63	Pass

4.6. Simultaneous Exposure Analysis

In the case of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (P_{th}) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i .

ERP_j = the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation.

$Exposure Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable.

WPT						Bluetooth			Worst Total Ratio
Max E-field (V/m)	Limit (V/m)	Ratio	Max H-field (A/m)	Limit (A/m)	Ratio	Tune-up ERP (mW)	Thresholds ERP (mW)	Ratio	
0.62	614	0.001	0.529	1.63	0.325	4.467	768	0.006	0.331

Note: Bluetooth evaluation result come from report: R25S1024112-U201 & R25S1024112-U202

Conclusion:

The sum of the ratios is less than 1. Therefore, the above analysis is sufficient to determine that simultaneous exposure cases will not exceed the limit and the device is compliance with exposure requirement.

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