



Product Name:	Trio Ultra 3-in-1 Wireless Charging Station		
Product Model No.:	JMSRT31WH JMSRT31BK, JMSRT31XX (XX represents color)		
Trademark:	Journey, JR-NY		
Transmitting mode	Keep the EUT in continuously wireless charging mode		
Operation Frequency:	Front Wireless: 115kHz-205kHz  Base Wireless: 115kHz-205kHz  Apple Watch: 300kHz-350kHz		
Antenna Type:	loop coil antenna		
Ratings:	Input: 12V===2.5A  Front Wireless Charger: 15W/10W//7.5W (Max)  Base Wireless Charger: 3.5W (Max)  Apple Watch Charger: 5W (Max)		
Adapter:	Model No.:JCG130WH-US Input: AC100-240V, 50/60Hz, 1.0A USB-C Output: DC 5V/9V 3A, DC 12V 2.5A, DC15V 2A, DC 20V 1.5A(30W PD), PPS: 3.3-11V 2.7A Max		
Test Description:	Phone and Watch and Earbuds Battery > 98%, =50% and < 1% are tested, and the worst is < 1%.		

Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E1	Trio Ultra 3-in-1 Wireless Charging Station	Journey, JR-NY	JMSRT31WH	N/A	EUT
E2	AC ADAPTOR	-	JCG130WH-US	N/A	EUT
E3	Phone	Apple	iPhone 13	N/A	Auxiliary
E4	Watch	Apple	iWatch S2	N/A	Auxiliary
E5	Earbuds	Apple	AirPods2	N/A	Auxiliary

#### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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### Test Mode

	Test Modes:	Description:	
7	69	Full Load	( )
ANT 1	Phone Coil	Half Load	
		No Load	
		Full Load	
ANT 2	Earbuds Coil	Half Load	
		No Load	
		Full Load	
ANT 3	Watch Coil	Half Load	
- 87	Δ	No Load	
	Dhana Cail i Fashiida Caili	Full Load	Record
Simultaneously	Phone Coil + Earbuds Coil+	Half Load	8484
	Watch Coil	No Load	

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## RF Exposure Evaluation

### 1 Measuring Standard

KDB 680106 RF Exposure Wireless Charging Apps v03r01

1.1 KDB 680106 RF Exposure Wireless Charging Apps v03r01

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainly
1	H-filed	±0.93dB
2	E-filed	±0.51dB

### 2 Requirements

According to the item 5 of KDB 680106 v03r01:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(1) Power transfer frequency is less than 1MHz.

Yes. the device operate in the frequency range from 115-350KHz;

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes. The maximum output power of the primary coil is Max 15W;

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

Yes. The transfer system including a charging system with only single primary coils is to detect and allow only between individual of coils;

(4) Client device is placed directly in contact with the transmitter.

Yes. Client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes. The EUT does not have portable exposure conditions.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes. Meet the requirement.

#### Limits

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)

Limits for Maximum Permissible Exposure (MPE)









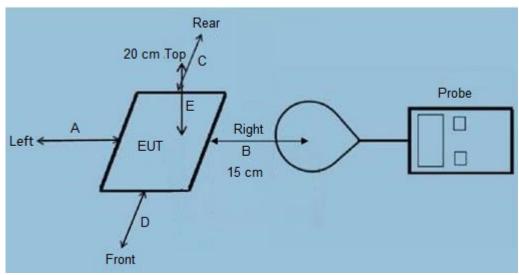
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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	1	f/300	6
1500-100,000	/	1	5	6
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	1	f/1500	30
1500-100,000	/	1	1.0	30

F=frequency in MHz

### 3 Test Setup



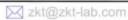
#### **4 Test Procedure**

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 v03r01.

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









<sup>\*=</sup>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 Test Instruments list**

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	180ZX10220	Oct. 25, 2022	Oct. 24 2023
Magnetic field probe 100cm <sup>2</sup>	Narda	ELT probe 100cm <sup>2</sup>	M0675	Oct. 26, 2022	Oct. 25 2023

#### 6 Test Result

(The worst data)

### H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range	Test	Test	Test	Test	50%	Limits
(MHz)	Position A	Position B	Position C	Position D	Limits(A/m)	(A/m)
0.115-0.350	0.57	0.56	0.58	0.59	0.815	1.63

### H-Filed Strength at 15 cm from the edges surrounding the EUT (uT)

Frequency Range	Test	Test	Test	Test
(MHz)	Position A	Position B	Position C	Position D
0.115-0.350	0.71	0.70	0.73	0.74

### H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range	Test	Limits
(MHz)	Position E	(A/m)
0.115-0.350	0.57	1.63

### H-Filed Strength at 20 cm from the top of the EUT (uT)

Frequency Range	Test	
(MHz)	Position E	
0.115-0.350	0.71	

Remark: A/m = uT/1.25











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# 7 Test Set-up Photo











