

Maximum Permissive Exposure

1. Description of EUT

Applicant	Channel Well Technology Co., Ltd. No.222, Sec.2, Nankan Rd., Lujhu Township, Taoyuan County 33855, Taiwan
Manufacture	Channel Well Technology Co., Ltd. No.222, Sec.2, Nankan Rd., Lujhu Township, Taoyuan County 33855, Taiwan
Product Name	Wireless Power Transmitter Module
Model	WTM1D15
Brand	acer
FCC ID	2AC3UWTM1D15
Test Model	WTM1D15
Date of Test	2021. 01. 11 ~ 02. 08

2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	EM Field Meter	Wavecontrol	SMP2	20SN1481	2020.12.18	1 Year
2.	Isotropic EM Field Probe (E/H Field Frequency: 1 Hz – 400 kHz)	Wavecontrol	WP400c	20WP100744	2020.12.22	1 Year
3.	Isotropic EM Field Probe (E Field Frequency: 100 kHz – 8 GHz)	Wavecontrol	WPF8-HP	20WP041222	2020.12.18	1 Year
4.	Isotropic EM Field Probe (H Field Frequency: 300 kHz – 60 MHz)	Wavecontrol	WPH60	20WP110080	2020.12.21	1 Year

3. Tested Supporting System List

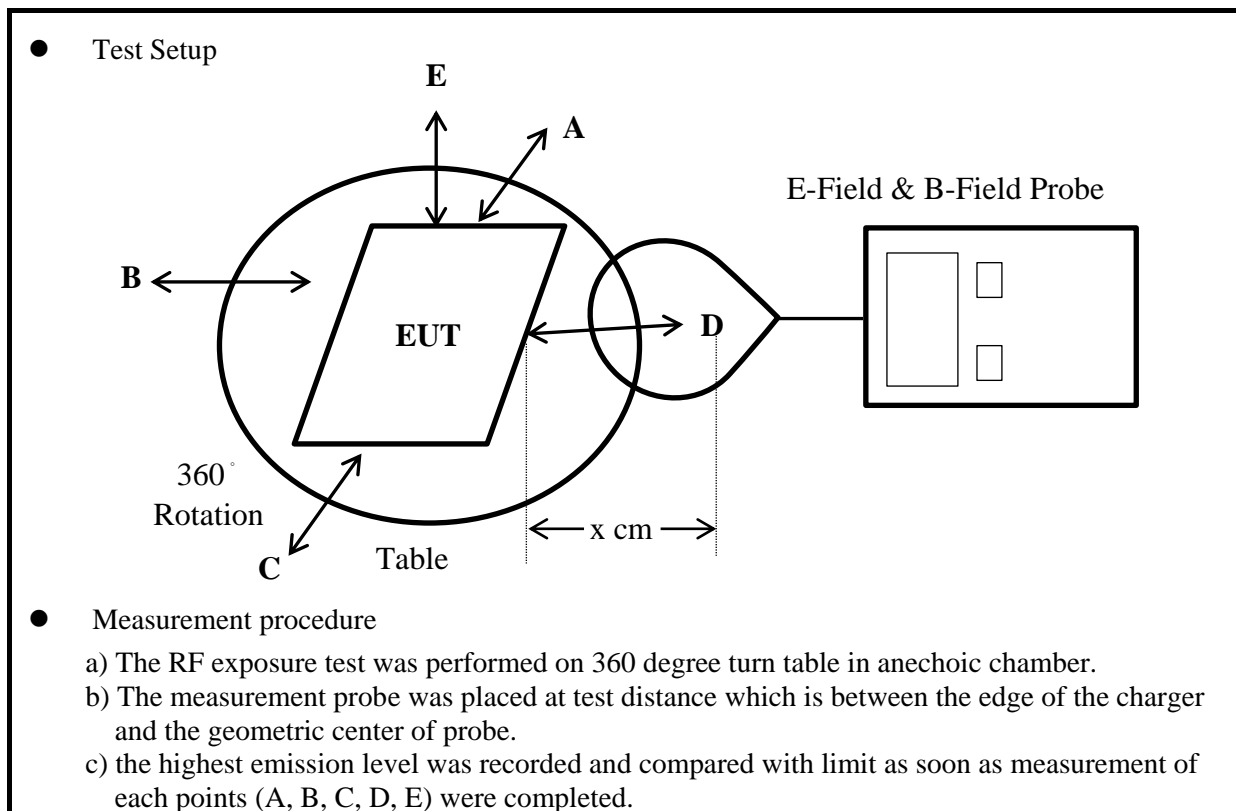
3.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval
1.	Personal Computer	acer	D20E2	N/A	N/A
	Personal Computer	acer	D19W6	N/A	N/A
2.	Load (Max. 15W)	N/A	N/A	N/A	N/A

3.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	AC Power Cord: Unshielded, Detachable, 1.8m
2.	None

4. Setup Configuration



5. Operating Condition of EUT

Put the load on the EUT, to set EUT RF function on continues transmitting.

6. MPE Calculation

Channel Well Technology Co., Ltd. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time (minutes)
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	0.73	2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1	30

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Test Date	2021/01/11	Temp./Hum.	15°C/67%
Test Normal Voltage	AC 120V, 60Hz (Via Personal Computer)	Tested by	Martin Chen

Test Host Model	D20E2	Test Model	WTM1D15
Test Frequency	TX 127.4kHz	Test Mode	5W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.32	0.04
15cm	Right (C)	0.16	0.03
20cm	Top (E)	0.96	0.07
15cm	Back (B)	0.12	0.05
15cm	Front (D)	0.29	0.06
Limit		614	1.63

Test Host Model	D20E2	Test Model	WTM1D15
Test Frequency	TX 127.3kHz	Test Mode	7.5W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.47	0.05
15cm	Right (C)	0.36	0.05
20cm	Top (E)	0.49	0.07
15cm	Back (B)	0.31	0.03
15cm	Front (D)	0.39	0.04
Limit		614	1.63

Test Host Model	D20E2	Test Model	WTM1D15
Test Frequency	TX 127.2kHz	Test Mode	10W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.36	0.04
15cm	Right (C)	0.31	0.03
20cm	Top (E)	0.33	0.07
15cm	Back (B)	0.26	0.03
15cm	Front (D)	0.34	0.06
Limit		614	1.63

Test Date	2021/02/08	Temp./Hum.	22°C/63%
Test Normal Voltage	AC 120V, 60Hz (Via Personal Computer)	Tested by	Martin Chen

Test Host Model	D19W6	Test Model	WTM1D15
Test Frequency	TX 127.5kHz	Test Mode	5W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.29	0.04
15cm	Right (C)	0.21	0.02
20cm	Top (E)	0.83	0.07
15cm	Back (B)	0.15	0.06
15cm	Front (D)	0.24	0.07
Limit		614	1.63

Test Host Model	D19W6	Test Model	WTM1D15
Test Frequency	TX 127.5kHz	Test Mode	7.5W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.49	0.06
15cm	Right (C)	0.38	0.04
20cm	Top (E)	0.52	0.07
15cm	Back (B)	0.28	0.02
15cm	Front (D)	0.36	0.03
Limit		614	1.63

Test Host Model	D19W6	Test Model	WTM1D15
Test Frequency	TX 127.2kHz	Test Mode	10W Charge

Separation	Probe from EUT side	E-field strength (V/m)	H-field strength (A/m)
15cm	Left (A)	0.38	0.04
15cm	Right (C)	0.29	0.03
20cm	Top (E)	0.51	0.06
15cm	Back (B)	0.25	0.03
15cm	Front (D)	0.36	0.05
Limit		614	1.63

Sincerely Yours



Mr. Johnny Hsueh/Section Manager
AUDIX Technology Corporation

7. Exemption from RF Exposure

Pursuant to KDB 680106 D01 v03r01, it meets the requirements indicated in section 5 b) and could be excluded from KDB inquiry

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

Explain: The transfer frequency is below 1MHz.

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

Explain: The device has output power is less than 15 watt.

- (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.

Explain: The system used single coil

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

Explain: yes. It is.

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

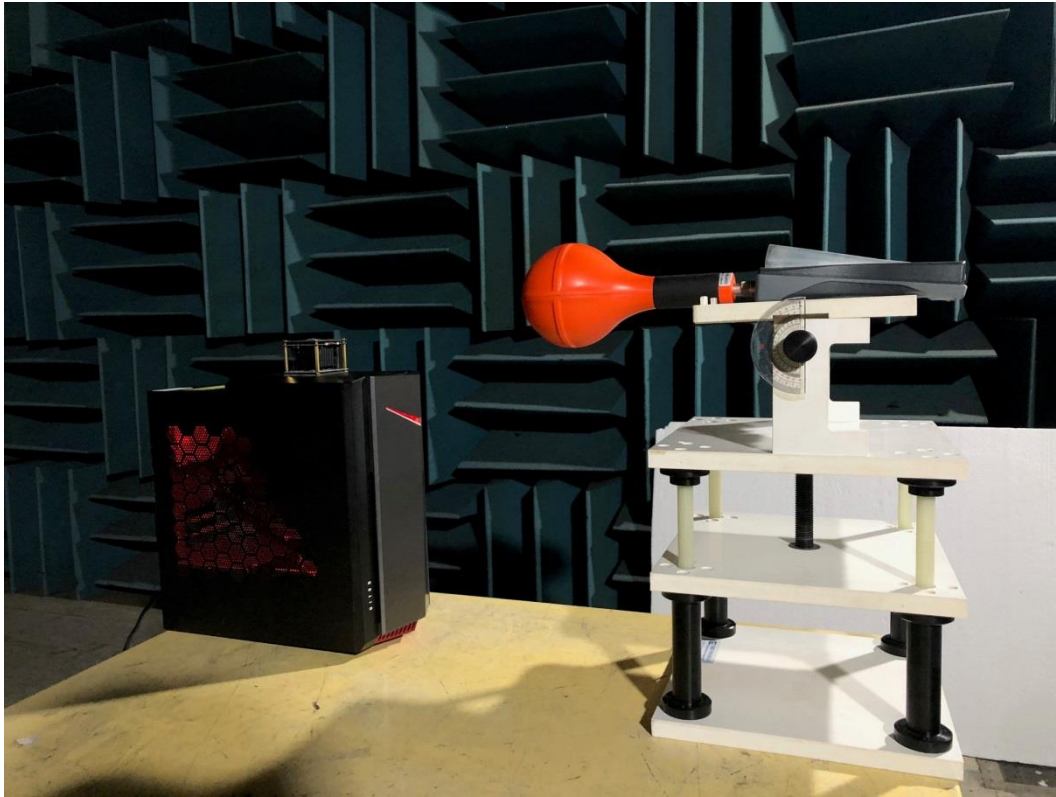
Explain: The device has Mobile exposure conditions.

- (6) The aggregate H-field strengths any where 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.

Explain: The aggregate leakage field is less than 50% of limit. Please refer to MPE.

8. Test Setup Photo

For Host Model: D20E2



For Host Model: D19W6

