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TEST REPORT

Application No.:	SHCR2212002662PT
FCC ID:	2ASC3WR220
IC:	24992-WR220
Applicant:	Positec Technology (China) Co.,Ltd
Address of Applicant:	No.18 Dongwang Road Suzhou industrial Park, Jiangsu 215123, P.R. China
Manufacturer:	Positec Technology (China) Co.,Ltd
Address of Manufacturer:	No.18 Dongwang Road Suzhou industrial Park, Jiangsu 215123, P.R. China
Factory:	Positec Technology (China) Co.,Ltd
Address of Factory:	No.18 Dongwang Road Suzhou industrial Park, Jiangsu 215123, P.R. China
Equipment Under Test (EUT	-):
EUT Name:	Lawn Mowing Robot
Model No.:	WR235, WR220, WR210, WR235.*, WR208, WR208.*, WR230, WR230.*, WR220.*, WR210.*(*=1-99, A-Z or M1-M9)
Remark:	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
For IC Model No:	WR235, WR220, WR210, WR208, WR230
Trade Mark:	WORX
Standard(s) :	47 CFR Part 15, Subpart C 15.225
	RSS-210 Issue 10 Amendment (April 2020)
	RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2022-12-06
Date of Test:	2022-12-21 to 2023-01-16
Date of Issue:	2023-01-28
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

中国・上海・松江区金都西路588号

parlan shan

Parlam Zhan Laboratory Manager



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Revision Record				
Version	Description	Date	Remark	
00	Original	2023-01-28	/	

Authorized for issue by:			
	Wade thang		
	Wade Zhang/Project Engineer	_	
	parlam zhan		
	Parlam Zhan/Reviewer	-	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	RSS-210 Issue 10 Amendment (April 2020)	Customer Declaration
Radio Spectrum Ma	tter Part			
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.2	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.9	Pass
Emission Mask	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4	Pass
Frequency tolerance	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.8	Pass
Radiated Emissions(9kHz- 30MHz)	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
Radiated Emissions(30MHz- 1GHz)	47 CFR Part 15, Subpart C 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
99% Bandwidth	-	RSS-Gen Issue 5 Amendment 2 (February 2021)	RSS-Gen Section 6.7	Pass

Declaration of EUT Family Grouping:

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Note: There are series models mentioned in this report and they are the similar in electrical and electronic characters. Their differences are model number, appearance, cutterhead, Battery charger or Battery pack. Considering to the difference, pre-scan was performed on all models, only the worst result for model WR235 shown the data in this report.



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General Information 4

4.1	Details of E.U.T.	
	Power supply:	DC18V 5.0Ah Li-ion Battery Pack for WR220, WR230, WR235
		DC18V 4.0Ah Li-ion Battery Pack for WR208, WR210
		Charging adapter for W210, WR220:
		Input: AC 120V~ 60Hz 90W; Output: DC 20V 3.0A
		Charging adapter for WR235:
		Input: AC 120V~ 60Hz 230W; Output: DC 28V 7.0A
		Charging adapter for WR230:
		Input: AC 120V~ 60Hz 190W; Output: DC 28V 5.0A
		Charging adapter for WR208:
		Input: AC 120V~ 60Hz 38W; Output: DC 20V 1.5A
	Test voltage:	AC 120V 60Hz
	Antenna Type	Loop Antenna
	Modulation Type	ASK
	Number of Channels	1
	Operation Frequency	13.56MHz
	Firmware Version:	16.92.21.p11.1
	S/N:	2023 3029720100022996

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-
Serial port adapter plate	-	Test Plate 3	-

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10- ⁸
2	Timeout	2s
3	Occupied Bandwidth	3%
4	Conducted Spurious emissions	0.75dB
Б	PE Padiated power	5.1dB (Below 1GHz)
5	KF Kadiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
6	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)



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		5.4dB (6GHz-18GHz)
7	Temperature test	1°C
8	Humidity test	3%
9	Supply voltages	1.5%
10	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	/	/

Conducted Emissions at Mains Terminals (150kHz-30MHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2022/12/20	2023/12/19		
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2022/12/20	2023/12/19		
Line impedance stabilization network	EMCO	3816_2	SHEM019-1	2022/12/20	2023/12/19		
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2022/12/20	2023/12/19		
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2022/12/20	2025/12/19		
CE test Cable	/	/	SHEM172-1	2022/12/20	2023/12/19		
Test Software	ESE	e3	Version: 6.111221a	N/A	N/A		



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is loop antenna and no consideration of replacement.

Antenna location: Refer to Appendix(Internal Photos)



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2
Limit:	

	Limit (c	dBuV)
Frequency range (MHZ)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1020 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode

7.1.2 Test Setup Diagram

Shielding Room	
	Test Receiver
Gound Reference Plane	



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7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark:

1.LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:a:	Line:Live Line	
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	Freq	Read	LISN	Cable	Emission		Over	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	33.20	0.14	10.01	43.35	55.74	-12.39	Average
2	0.15	45.31	0.14	10.01	55.46	65.74	-10.28	QP
3	0.38	22.24	0.10	10.06	32.40	48.34	-15.94	Average
4	0.38	33.66	0.10	10.06	43.82	58.34	-14.52	QP
5	0.48	21.95	0.10	10.08	32.13	46.41	-14.28	Average
6	0.48	32.53	0.10	10.08	42.71	56.41	-13.70	QP
7	0.76	17.58	0.10	10.09	27.77	46.00	-18.23	Average
8	0.76	31.39	0.10	10.09	41.58	56.00	-14.42	QP
9	0.86	18.54	0.10	10.09	28.73	46.00	-17.27	Average
10	0.86	31.70	0.10	10.09	41.89	56.00	-14.11	QP
11	1.14	15.13	0.10	10.12	25.35	46.00	-20.65	Average
12	1.14	26.63	0.10	10.12	36.85	56.00	-19.15	QP
No	tes: Emi	ission Le	vel = Re	ead Leve	1 +1 TSN E	actor +	Cable los	



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	Freq	Read	LISN	Cable	Emission		Over	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	33.80	0.10	10.01	43.91	55.74	-11.83	Average
2	0.15	45.72	0.10	10.01	55.83	65.74	-9.91	QP
3	0.37	23.36	0.10	10.06	33.52	48.43	-14.91	Average
4	0.37	33.08	0.10	10.06	43.24	58.43	-15.19	QP
5	0.47	20.27	0.10	10.07	30.44	46.58	-16.14	Average
6	0.47	33.44	0.10	10.07	43.61	56.58	-12.97	QP
7	0.85	19.21	0.10	10.09	29.40	46.00	-16.60	Average
8	0.85	31.87	0.10	10.09	42.06	56.00	-13.94	QP
9	0.96	19.02	0.10	10.10	29.22	46.00	-16.78	Average
10	0.96	30.37	0.10	10.10	40.57	56.00	-15.43	QP
11	1.36	16.60	0.10	10.14	26.84	46.00	-19.16	Average
12	1.36	25.37	0.10	10.14	35.61	56.00	-20.39	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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7.2 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data



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20dB bandwidth (kHz)	F∟ (MHz)	F _н (MHz)	Limit(MHz)	Result
2.84	13.559	13.562	13.110 – 14.010	Pass
Test plot as follows:				

Keysight Spectrum Analyzer - Swept SA			
Marker 3 Δ 2.840000 kHz	SENSE:PULSE	ALIGN OFF 01:16:18 PM Ja Avg Type: Log-Pwr TRACE	in 11, 2023 1 2 3 4 5 6 Marker
PNO: Clos IFGain:Lo	e ↔ frig. free Kun w Atten: 40 dB	DET	Select Marker
11 dB/div Ref 23.00 dBm		ΔMkr3 2.8 0.	4 kHz 3 [°] 31 dB
12.0 1.00	1		Normal
-10.0	2	3∆2	-20.17 dBm
-32.0			Delta
-54.0			
-65.0			Fixed⊳
Center 13.560920 MHz #Res BW 100 Hz #\	/BW 300 Hz	Span 10 Sweep 9.600 ms (10	00 kHz 01 pts) Off
MKR MODE TRC SCL X 1 N 1 f 13.560 84 MHz	Y FUNC -0.17 dBm	TION FUNCTION WIDTH FUNCTION	VALUE A
2 N 1 f 13.559 41 MHz 3 Δ2 1 f (Δ) 2.84 kHz 4 5 6	-20.52 dBm (Δ) 0.31 dB		Properties≯ ■
7 8 8 9			More
			1 of 2
MSG		STATUS	

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7.3 Emission Mask

Test Requirement	
Test Method:	
l imit [.]	

47 CFR Part 15 Subpart C 15.225(a)&(b)&(C) ANSI C63.10 (2013) Section 6.4

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea: TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





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7.3.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

Vertical



ltem	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	13.336	25.07	20.04	0.53	45.64	80.50	-34.86	QP
2	13.520	34.48	20.05	0.53	55.06	90.50	-35.44	QP
3	13.561	55.89	20.05	0.53	76.47	124.00	-47.53	Peak
4	13.582	36.59	20.05	0.54	57.18	90.50	-33.32	QP
5	13.731	24.31	20.06	0.54	44.91	80.50	-35.59	QP



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Horizontal

Item	Freq.	Read Level	Antenna Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	13.374	21.86	20.04	0.53	42.43	80.50	-38.07	QP
2	13.507	34.35	20.05	0.53	54.93	90.50	-35.57	QP
3	13.561	55.77	20.05	0.53	76.35	124.00	-47.65	Peak
4	13.624	29.80	20.05	0.54	50.39	90.50	-40.11	QP
5	13.717	25.51	20.06	0.54	46.11	80.50	-34.39	QP



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7.4 Frequency tolerance

Test Requirement	47 CFR Part 15, Subpart C 15.225(e)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	1.356kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea: TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data



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Test Conditions		Test Result	Deviation	Limit	
Temp (℃)	Volt (V AC)	(MHz)	(kHz)	(kHz)	Result
T _{nom} (-20)	V _{nom} (120)	13.56004	0.04		Pass
T _{nom} (-10)	V _{nom} (120)	13.56004	0.04		Pass
T _{nom} (0)	V _{nom} (120)	13.56004	0.04		Pass
T _{nom} (10)	V _{nom} (120)	13.56004	0.04		Pass
T _{nom} (20)	V _{nom} (120)	13.56004	0.04	±0.01%	Pass
T _{nom} (30)	V _{nom} (120)	13.56004	0.04	(1.3560kHz)	Pass
T _{nom} (40)	V _{nom} (120)	13.56004	0.04		Pass
T _{nom} (50)	V _{nom} (120)	13.56004	0.04		Pass
T (20)	V _{min} (108)	13.56006	0.06		Pass
T _{nom} (20)	V _{max} (132)	13. 56003	0.03		Pass

Nominal Operation Frequency: 13.56MHz

Note: Deviation (kHz) = (Test Result-13.56MHz)*1000



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7.5 Radiated Emissions(9kHz-30MHz)

Test Requirement Test Method:

47 CFR Part 15, Subpart C 15.225(d) & 15.209 ANSI C63.10 (2013) Section 6.4&6.5

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

NOTE:

(1) For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is 40*log (DTEST / DSPEC) where DTEST = Test Distance and DSPEC = Specified Distance.

Field strength limit (dBµV/m)@test distance= Field strength limit (dBµV/m)@specified distance +Distance **Extrapolation Factor**

(2) The lower limit shall apply at the transition frequencies.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:	22	°C	Humidity:	50	% RH	Atmospheric Pressure:	1002	mbar
Test mode	a:TX mode_Keep the EUT in continuously transmitting mode							



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7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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Vertical



Item	Freq.	Read Level	Correct Factor	Result Level@ 3m	Result Level@SPE C	Limit Line@SPE C	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1	0.014	33.48	20	53.5	-26.5	44.42	-70.92	QP
2	0.035	24.84	19.9	44.76	-35.24	36.6	-71.84	QP
3	0.051	20	19.8	39.82	-40.18	33.5	-73.68	QP
4	0.151	23.07	20	43.11	-36.89	23.99	-60.88	QP
5	0.407	17.82	20.01	37.9	-42.1	15.4	-57.5	QP
6	1.044	15.94	20.21	36.27	-3.73	27.25	-30.98	QP
7	13.56	54.73	20.05	75.32	35.32	84.00	-48.68	Peak



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Horizontal



Item	Freq.	Read Level	Correct Factor	Result Level@ 3m	Result Level@SPE C	Limit Line@SPE C	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1	0.015	28.09	20	48.11	-31.89	44.35	-76.24	QP
2	0.035	24.44	19.9	44.36	-35.64	36.6	-72.24	QP
3	0.076	10.92	19.92	30.87	-49.13	29.98	-79.11	QP
4	0.171	21.79	20	41.83	-38.17	22.94	-61.11	QP
5	0.327	19.77	20	39.82	-40.18	17.3	-57.48	QP
6	1.169	16.45	20.22	36.79	-3.21	26.27	-29.48	QP
7	13.56	54.47	20.05	75.06	35.06	84.00	-48.94	Peak



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7.6 Radiated Emissions(30MHz-1GHz)

Test Requirement Test Method: Limit: 47 CFR Part 15, Subpart C 15.225(d) & 15.209 ANSI C63.10 (2013) Section 6.4&6.5

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3

7.6.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode

7.6.2 Test Setup Diagram





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7.6.3 Measurement Procedure and Data

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a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Horizontal:



EUT/Project :2662PT

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MH7	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	58.613	42.03	13.37	1.26	26.20	30.46	40.00	-9.54	OP
2	81.783	42.96	8.95	1.57	26.10	27.38	40.00	-12.62	QP
3	147.404	44.15	13.05	2.08	27.10	32.18	43.50	-11.32	QP
4	186.441	51.25	11.11	2.35	26.76	37.95	43.50	-5.55	QP
5	400.432	41.75	15.63	3.41	27.30	33.49	46.00	-12.51	QP
6	601.427	42.56	19.98	4.39	27.20	39.73	46.00	-6.27	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Vertical:



		Read	Antenna	Cable	Preamp	Emission	n Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	57.999	36.69	13.44	1.26	26.20	25.19	40.00	-14.81	QP
2	80.081	37.68	9.36	1.57	26.10	22.51	40.00	-17.49	QP
3	178.133	39.08	12.17	2.34	26.83	26.76	43.50	-16.74	QP
4	186.441	41.66	11.11	2.35	26.76	28.36	43.50	-15.14	QP
5	204.238	40.90	9.93	2.51	26.71	26.63	43.50	-16.87	QP
6	601.427	37.59	19.98	4.39	27.20	34.76	46.00	-11.24	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.7 99% Bandwidth

Test RequirementRSS-Gen Issue 5 Amendment 2 (February 2021)Test Method:RSS-Gen Section 6.7

7.7.1 E.U.T. Operation

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1002 mbarTest modea:TX mode_Keep the EUT in continuously transmitting mode

7.7.2 Test Setup Diagram





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7.7.3 Measurement Procedure and Data

Frequency (MHz)	99% bandwidth (kHz)
13.56	2.436





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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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