

TEST	R	EPORT	
Product	:	Remote Controller	
Trade mark	:	PowerVision	
Model/Type reference	:	PRC30	
Serial Model	\mathbb{R}^{n}	N/A	
Report Number	N,	EED39N80210201R2	
FCC ID	:	2AKBMPRC30	
Date of Issue	:	August 9, 2021	
Test Standards		Result	
47 CFR Part 15 Subp	bar	t C PASS	e.

Prepared for: **Powervision Tech Inc.** Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District, Weihai, Shandong, China. 264200 Prepared by: Centre Testing International (Suzhou) CO., LTD. Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China TEL:+86-0512-5015 8288 pection & Testing Lily. War Compiled by: Reviewed by: Approved by: Date: August 9, 2021 Check No.: 7824090421





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No.	Last Report No.	Modification Description
1	EED39N80210201	First report
2	EED39N80210201R1	Change applicant and manufacturer address.
3	EED39N80210201R2	Change Factory name & address.

All test data come from the report of EED39N80210201.





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1. Test Summary

Test item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013	PASS
20dB Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Number of hopping channels	47 CFR Part 15 Subpart C Section 15.247 (b)	ANSI C63.10-2013	PASS
Time of occupancy	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.205	ANSI C63.10-2013	PASS



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2. Test Requirement

2.1. Test Environment

Operating Environment:		
Temperature:	25 °C	
Humidity:	59 % RH	107
Atmospheric Pressure:	1008 mbar	
	1 PY . Y	

2.2. Test Condition

Test Mede	Ту	RF Channel			
Test Mode		Low(L)	Middle(M)	High(H)	
240		Channel 1	Channel 19	Channel 36	
2.46		2405MHz	2441MHz 💛	2475MHz	

TX mode: The EUT transmitted the continuous modulation test signal at the specific channel(s).

3. General Information

3.1. Client Information

Applicant:	Powervision Tech Inc.
Address of Applicant:	Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District, Weihai, Shandong,China. 264200
Manufacturer:	Powervision Tech Inc.
Address of Manufacturer:	Zone E,Ocean Venture Valley, No.40, Yangguang Rd, Nanhai new District, Weihai, Shandong,China. 264200
Factory:	Powervision (Suzhou) Technology Co.,Ltd.
Address of Factory:	Building 3,No.15, Zhujing Road,Changshu High-tech Industrial Development Zone,Suzhou,China

3.2. General Description of EUT

Product Name:	Remote Controller		
Model No.(EUT):	PRC30		
Trade Mark:	PowerVision		
EUT Supports Radios application:	2.4G	S	
Power Supply:	DC 3.7V FOR BATTERY/DC 5V FOI	RUSB	
Sample Received Date:	2021.04.09		
Sample tested Date:	2021.05.14~2021.05.27 and 2021.08	3.09	10.00

3.3. Product Specification subjective to this standard

Operation Frequency:	2405MHz~2475MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	64QAM, 16QAM, QPSK, BPSK
Number of Channel:	36
Hopping Channel Type:	Adaptive Frequency Hopping systems
Test Software of EUT:	Artosyn8020PCTool-v4.4.8 (manufacturer declare)
Antenna Type:	Dipole antenna
Antenna Gain ¹⁰ :	1 dBi
Test Voltage:	DC 3.7V

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Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

	Operation Frequency each of channel							
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	1	2405MHz	10	2423MHz	19	2441MHz	28	2459MHz
	2	2407MHz	11	2425MHz	20	2443MHz	29	2461MHz
	3	2409MHz	12	2427MHz	21	2445MHz	30	2463MHz
	4	2411MHz	13	2429MHz	22	2447MHz	31	2465MHz
2	5	2413MHz	14	2431MHz	23	2449MHz	32	2467MHz
$\langle \rangle$	6	2415MHz	15	2433MHz	24	2451MHz	33	2469MHz
	7	2417MHz	16	2435MHz	25	2453MHz	34	2471MHz
	8	2419MHz	17	2437MHz	26	2455MHz	35	2473MHz
	9	2421MHz	18	2439MHz	27	2457MHz	36	2475MHz

3.4. Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by	
NB	ThinkPad	E490	FCC ID and DOC	СТІ	

3.5. Test Location

All test facilities used to collect the test data are located at Building 18, Zhihui New Town Ecological Industrial Park, No. 1206, Jinyang East Road, Lujia Town, Kunshan, Jiangsu, China.

3.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **A2LA-Lab Cert. No. 5734.01**



Centre Testing International (Suzhou) CO., LTD. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration. Laboratories and any additional program requirements in the identified field of testing.

FCC-Designation No.:CN1290

Centre Testing International Group Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The American association for Centre Testing International Group Co., Ltd. EMC laboratory accreditation Designation No.:CN1290

3.7. Deviation from Standards

None.

None.

- **3.8. Abnormalities from Standard Conditions** None.
- 3.9. Other Information Requested by the Customer





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3.10. Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Occupied Bandwidth	0.56%	
2	RF Power conducted	0.59 dB	
3	Power Spectral Density, conducted	2.37 dB	
4	Unwanted Emission, conducted	2.68 dB	
		4.41 dB(30MHz-1GHz)	
5	All Emission, radiated	4.99 dB(1GHz-18GHz)	
		5.307 dB(18GHz-40GHz)	
6	Temperature test	0.54°C	
7	Humidity test	1.62%	
8	DC and low frequency voltages test	1.14%	
(2)	(28)	(25) (25)	







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4. Equipment List

RF test system							
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Signal Generator	R&S	SMB100A	182002	2020-10-23	2021-10-22		
Communication test set	R&S	CMW500	107929	2021-04-29	2022-04-28		
Spectrum Analyzer	R&S	FSV40	101588	2020-10-23	2021-10-22		
Vector signal generator	R&S	SMBV100B	101985	2020-10-23	2021-10-22		
Temperature/ Humidity Indicator	testo	608-H1	1945222628	2020-11-09	2021-11-08		
Switch Automatic control	R&S	OSP-B157W8	101111	2020-10-23	2021-10-22		
High-low temperature chamber	GIANT FORCE	GTH-800-40-CP	MAA1908-003	2020-12-08	2021-12-07		
Automatic test software	Shenzhen JS TONSCEND	1	V2.6.77.0518		1		

	966 Semi-anec	hoic Chamber		
Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
R&S	ESU8	100537	2020-12-10	2021-12-09
R&S	FSV40	101185	2020-12-10	2021-12-09
SONOMA	317	393347	2020-12-04	2021-12-03
R&S	SCU-18D	1987397	2020-12-10	2021-12-09
1	MTLNA1804003 0235	12009007	2020-10-23	2021-10-22
TESEQ	HLA6121	54575	2021-02-27	2022-02-26
SCHWARZBEC K	VULB9163	9163-965	2020-10-16	2021-10-15
R&S	HF907	102524	2020-12-15	2021-12-14
R&S	BBHA9170	1032	2020-10-23	2021-10-22
Xi'an xingbo	XBLBQ-DZA81	200827-1-02	/	/
	Manufacturer R&S R&S SONOMA R&S / TESEQ SCHWARZBEC K R&S R&S Xi'an xingbo	966 Semi-anecManufacturerMode No.R&SESU8R&SFSV40SONOMA317R&SSCU-18D/MTLNA1804003 02357MTLNA1804003 0235SCHWARZBECVULB9163R&SHF907R&SBBHA9170Xi'an xingboXBLBQ-DZA81	966 Semi-anechoic Chamber Manufacturer Mode No. Serial Number R&S ESU8 100537 R&S FSV40 101185 SONOMA 317 393347 R&S SCU-18D 1987397 R&S SCU-18D 12009007 / MTLNA1804003 0235 12009007 SCHWARZBEC VULB9163 9163-965 R&S HF907 102524 R&S BBHA9170 1032	966 Semi-anec+oic Chamber Manufacturer Mode No. Serial Number Cal. Date (mm-dd-yyyy) R&S ESU8 100537 2020-12-10 R&S FSV40 101185 2020-12-10 SONOMA 317 393347 2020-12-04 SONOMA SCU-18D 1987397 2020-12-10 R&S SCU-18D 1987397 2020-12-10 / MTLNA1804003 0235 12009007 2020-10-23 TESEQ HLA6121 54575 2020-10-23 SCHWARZBEC K VULB9163 9163-965 2020-10-16 R&S HF907 102524 2020-12-15 R&S BBHA9170 1032 2020-10-23 Xi'an xingbo XBLBQ-DZA81 200827-1-02 /





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5. Radio Technical Requirements Specification

5.1. Reference Documents for Testing

	A MARK THE CONTRACT OF A	
No.	Identity	Document Title unlicensed
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

5.2. Test Results List

Test requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(1)	ANSI 63.10	20dB Emission Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(1)	ANSI 63.10	Maximum conducted output power	PASS	Appendix B)
Part15C Section 15.247 (a)(1)	ANSI 63.10	Carrier Frequencies Separation	PASS	Appendix C)
Part15C Section 15.247 (a)(1	ANSI 63.10	Time of occupancy	PASS	Appendix D)
Part15C Section 15.247 (b)	ANSI 63.10	Number of hopping channels	PASS	Appendix E)
Part15C Section 15.247(d)	ANSI 63.10	Band-edge for RF Conducted Emissions	PASS	Appendix F)
Part15C Section 15.247(d)	ANSI 63.10	Conducted Spurious Emissions	PASS	Appendix G)
Part15C Section 15.203/15.247 (c)	ANSI 63.10	Antenna Requirement	PASS	Appendix H)
Part15C Section 15.207	ANSI 63.10	AC Power Line Conducted Emission	PASS	Appendix I)
Part15C Section 15.205/15.209	ANSI 63.10	Restricted bands around fundamental frequency (Radiated) Emission)	PASS	Appendix J)
Part15C Section 15.205/15.209	ANSI 63.10	Radiated Spurious Emissions	PASS	Appendix K)









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Appendix A): 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	RF test System Instrument Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Limit:	NA C
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Continue TX
Test Results:	Pass

Result Table:

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	10	2405	1.284	2404.358	2405.642		PASS
OTHER	Ant1	2441	1.284	2440.358	2441.642		PASS
1	~	2475	1.293	2474.355	2475.648	/	PASS









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Test Graph:





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Appendix B): Maximum conducted output power



Result Table:

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2405	20.17	<=20.97	PASS
OTHER	Ant1	2441	19.79	<=20.97	PASS
		2475	19.47	<=20.97	PASS



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Appendix C): Carrier frequency separation



Result Table:

Test Mode	Antenna	Channel	Result[MHz]	Limit[dBm]	Verdict
OTHER	Ant1	Нор	2.092	≥0.862	Pass
(67)		(c)		(\mathcal{O})	

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Appendix D): Time of occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Test Setup:	Control Computer Power Suppy TemPERATURE CABNET Table				
	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. 				
Test Procedure:	4. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected				
	dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.				
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.				
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.				
Test Results:	Pass				

Result Table:

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
OTHER	Ant1	Нор	2 17	58	0 124	<=0.4	PASS
Note 1: A peri	od time= 0.4^*	36 = 144(s) F	esult_burst width	* Total Hops	0.121	L =0.1	17,66







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Appendix E): Number of hopping channels

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
Test Setup:	Control Computer Computer Suppr TemPerature CABNET Table RF test System Instrument			
	Remark: Offset=Cable loss+ attenuation factor.			
	RF cable and attenuator. The path loss was compensated to the results for each measurement.			
	2. Set to the maximum power setting and enable the EUT transmit continuously.			
	3. Enable the EUT hopping function.			
Test Procedure:	4. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto; Detector function = peak; Trace = max hold.			
	5. The number of hopping frequency used is defined as the number of total channel.			
	6. Record the measurement data in report.			
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.			
Test Mode:	Hopping transmitting with all kind of modulation			
Test Results:	Pass			

Result Table:

Test Mode A	ntenna (Channel R	tesult [Num]	Limit [Num]	Verdict
OTHER	Ant1	Нор	36	>=15	PASS



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Appendix F): Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	RF test Supply Power Supply Tele Table RF test System Instrument System Instrument
Test Procedure:	 1. Set to the maximum power setting and enable the EUT transmit continuously. 2. Set RBW = 100 kHz, VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 3. Enable hopping function of the EUT and then repeat step 2 and 3. 4. Measure and record the results in the test report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Continue TX
Test Results:	Pass

Result Table:

	Test Mode	Antenna	Ch Name	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
	OTHER	2.00	Low	2405	7.85	-44.78	<=-12.15	PASS	
		Ant1	B	High	2475	8.76	-44.01	<=-11.24	PASS
			Low	Hop_2405	7.92	-49.63	<=-12.15	PASS	
			High	Hop_2475	9.30	-48.30	<=-11.24	PASS	



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Report No. : EED39N80210201R2 (₩) Spectrum Ref Level 25.00 dBm Offset 2.00 dB ● RBW 100 kHz SWT 265.5 μs ● VBW 300 kHz Att
 1Pk Max 35 dB Mode Auto FFT M3[1] 49.63 dB 20 dBm 2.335120 GH M1[1] M7.92 d 10 dBr 0 dBm -10 dBr -20 dBr -30 dBr 40 dBr -50 dBm -60 dBm -70 dBm Start 2.3 GHz 691 pt Stop 2.42 GHz arke Type Ref Trc Y-value 7.92 dBm -53.54 dBm -49.63 dBm Function Function Result 2.40915 GHz M2 2.39 GHz 2.33512 GHz мз Date: 14MAY 2021 17:19:50 OTHER_Ant1_Low_hop ₽ Spectrum Ref Level 25.00 dBm Offset 2.00 dB ● RBW 100 kHz SWT 1.1 ms ● VBW 300 kHz Mode Auto Sweep Att 35 dB 1Pk Max M3[1] 48.30 di 20 dBm 2.533380 GH M1[1] 9.30 dBr 2.468660 GH 4**0 8**8 V 11 M2 50 dBm -60 dBm-70 dBm Stop 2.55 GHz Start 2.46 GHz 691 pts 1arker Type M1 X-value 2.46866 GHz 2.4835 GHz 2.53338 GHz Y-value 9.30 dBm -51.33 dBm -48.30 dBm Function Result Ref | Trc Function Date: 14 MAY 2021 17:21:49 OTHER_Ant1_High_hop

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Appendix G): Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Test Setup:	RF test Supply Power Supply Tele Table RF test System Instrument Remark: Offset=Cable loss+ attenuation factor.					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type					
Final Test Mode:	Continue TX					
	Pass					



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Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict	
1	\cup		Reference	8.77	8.77		PASS	
		2405	30~1000	8.77	-55.23	<=-11.23	PASS	
a	/	60	1000~26500	8.77	-46.12	<=-11.23	PASS	
67)	Ant1	67)	Reference	8.99	8.99	/	PASS	
OTHER		2441	30~1000	8.99	-55.71	<=-11.01	PASS	
		_		1000~26500	8.99	-45.69	<=-11.01	PASS
6		1	Reference	8.72	8.72		PASS	
(C		2475	30~1000	8.72	-55.08	<=-11.28	PASS	
			1000~26500	8.72	-46.19	<=-11.28	PASS	

































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15.203 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 permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



The antenna is PCB Antenna and no consideration of replacement.



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Appendix I): AC Power Line Conducted Emission

Test Requirement:	47 CFR Part 15C Section 15	.207	
Test Method:	ANSI C63.10: 2013	$\langle \mathcal{C} \rangle$	(S)
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz,	Sweep time=auto	
		Limit (dl	BuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
Limit:	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarith	m of the frequency.	(2)
Test Setup:	Shielding Room	AE USN2 + AC M Ground Reference Plane	Test Receiver
	 The mains terminal dissibilities shielded room. The EUT was connected Impedance Stabilization linear impedance. The post connected to a second reference plane in the semeasured. A multiple soot power cables to a single exceeded. 	sturbance voltage tes to AC power source Network) which provi ower cables of all othe LISN 2, which was same way as the LIS cket outlet strip was u LISN provided the rational	through a LISN 1 (Line des a $50\Omega/50\mu$ H + 5Ω r units of the EUT were bonded to the ground N 1 for the unit being sed to connect multiple ing of the LISN was not
Test Procedure:	 3) The tabletop EUT was p the ground reference pla EUT was placed on the h 4) The test was performed rear of the EUT shall b plane. The vertical gro horizontal ground referen the boundary of the unit plane for LISNs mounted distance was between th All other units of the EUT from the LISN 2 	placed upon a non-me ane. And for floor-star orizontal ground refere with a vertical groun e 0.4 m from the ve bund reference plane ice plane. The LISN 1 under test and bonded d on top of the ground re closest points of the and associated equipt	etallic table 0.8m above nding arrangement, the ence plane, d reference plane. The rtical ground reference was bonded to the was placed 0.8 m from d to a ground reference d reference plane. This e LISN 1 and the EUT ment was at least 0.8 m
	5) In order to find the m equipment and all of the	naximum emission, th interface cables must	e relative positions o be changed according

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	to ANSI C63.10: 2013 on conducted measurement.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Continue TX
Test Results:	N/A



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Appendix J): Restricted bands around fundamental frequency (Radiated)

Test Requirement	47 CFR Part 15C Sect	tion 15.209 and 1	15.205		<u>(7)</u>	
Test Method:	ANSI C63.10: 2013		0		U	
	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-0.090MH	z Peak	10kHz	30kHz	Peak	
	0.009MHz-0.090MH	z Average	10kHz	30kHz	Average	e e
	0.090MHz-0.110MH	lz Quasi-peak	10kHz	30kHz	Quasi- peak	
	0.110MHz-0.490MH	lz Peak	10kHz	30kHz	Peak	
Receiver Setup:	0.110MHz-0.490MH	z Average	10kHz	30kHz	Average	
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi- peak	
	30MHz-1GHz	Peak	100 kH	z 300kH z	Peak	(3
	Above 10117	Peak	1MHz	3MHz	Peak	(C)
	Above IGH2	Peak	1MHz	10kHz	Average	
	Frequency	Field strength microvolt/meter)	Limit (dBuV/m)	Remark	Measure distance	ment (m)
	0.009MHz-0.490MHz	2400/F(kHz)	<u> </u>	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	00/F(kHz) -		30	
	1.705MHz-30MHz	30	-			13
	30MHz-88MHz	100	40.0	Quasi-peak	3	(2)
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3	S
	216MHz-960MHz	200	46.0	Quasi-peak	3	
	960MHz-1GHz	500	54.0	Quasi-peak	3	
	Above 1GHz	500	54.0	Average	3	
	Note: 15.35(b), Unless emissions is 20d applicable to the peak emission le	otherwise speci B above the max equipment unde vel radiated by th	fied, the lin kimum perr r test. This ne device	mit on peak ra mitted averag s peak limit ap	adio frequer e emission oplies to the	icy limit total
(7)				(\mathcal{A})		(A)









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	tower.		
	c. The antenna height is varied fr the ground to determine the m Both horizontal and vertical po make the measurement.	om one meter to four meters a aximum value of the field strer larizations of the antenna are	above ngth. set to
	d. For each suspected emission, case and then the antenna wa meters (for the test frequency tuned to heights 1 meter) and degrees to 360 degrees to find	the EUT was arranged to its was tuned to heights from 1 meters of below 30MHz, the antenna the rotatable table was turned the maximum reading.	vorst er to 4 was from 0
	e. The test-receiver system was a Specified Bandwidth with Maxi	set to Peak Detect Function ar mum Hold Mode.	nd
	f. If the emission level of the EU the limit specified, then testing of the EUT would be reported. have 10dB margin would be re peak or average method as sp sheet.	F in peak mode was 10dB low could be stopped and the pea Otherwise the emissions that e-tested one by one using peal ecified and then reported in a	er than ak values did not k, quasi- data
	g. Test the EUT in the lowest cha (2441MHz),the Highest channel	nnel (2402MHz),the middle ch el (2480MHz)	nannel
	 The radiation measurements a positioning for Transmitting mo which it is the worst case. 	re performed in X, Y, Z axis ode, and found the X axis posi	tioning
	 Repeat above procedures unti complete. 	l all frequencies measured wa	S
Exploratory Test Mode:	Non-hopping transmitting mode wi data type	th all kind of modulation and a	Il kind of
Final Test Mode:	Continue TX		
Test Results:	Pass		G
		0	0



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2352.800	36.36	2.61	38.97	74.00	-35.03	200	0	peak
2	2390.000	32.89	2.71	35.60	74.00	-38.40	100	276	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2350.400	36.12	2.61	38.73	74.00	-35.27	100	335	peak
2	2390.000	32.71	2.71	35.42	74.00	-38.58	100	274	peak



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Mode:

Transmitting

		Rem	ark: H	Iorizontal					6		
Test	: Gra 97.1	aph 0 dBuV/m		(\mathbf{G}^*)			(C_{τ})			5	
									Lin	nit1: — nit2: —	
											9
	47										
		nonmar 6	konnek kan kan kan kan kan kan kan kan kan ka	man and the second days	~~~~~	seerd week-seeded-second dur	ada fara an	an a	ren en e	mathan malanash	
											9
	-3 24	470.000 2483	.00 2496.00	2509.00 2	2522.	.00 2535.00	2548.00	2561.00 25	574.00	2600.00	MHz
No.	Fr	equency	Reading	Correct		Result	Limit	Margin	Height	Degree	Remark
		(MHz)	(dBuV)	Factor(dB/r	n)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2	483.500	33.84	2.92		36.76	74.00	-37.24	100	309	peak
2	2	507.440	35.35	2.97		38.32	74.00	-35.68	196	0	peak

Channel:

high



















































No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2375.530	42.13	2.67	44.80	74.00	-29.20	200	256	peak
2	2390.000	38.87	2.71	41.58	74.00	-32.42	200	270	peak



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	No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
	1	2384.110	49.40	2.70	52.10	74.00	-21.90	200	243	peak
1	2	2390.000	45.90	2.71	48.61	74.00	-25.39	148	0	peak



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	40.63	2.92	43.55	74.00	-30.45	100	22	peak
2	2493.600	41.28	2.94	44.22	74.00	-29.78	100	15	peak
10		10		10		200	5		10























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		Mo	de: T	ransmitting		Cha	annel:	Hopping		
		Rem	ark: V	/ertical				6	0	
	Test	Graph 127.0 dBu∀/m								
								Lin	it1: — it2: —	Ø
										2
		67		*	himmonological	manan landar an	were were the state and	adatutogisyspectation	We there and the age	
		7.0	00 0470 00	2400.00 2504	00 0500 00	2520.00	2552.00 25		2000.00	
Γ	No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Dearee	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
	1	2483.500	56.93	2.92	59.85	74.00	-14.15	200	273	peak
	2	2483.500	41.92	2.92	44.84	54.00	-9.16	200	273	AVG
1	3	2487.200	67.53	2.92	70.45	74.00	-3.55	200	275	peak
	4	2487.200	41.19	2.92	44.11	54.00	-9.89	200	275	AVG
	5	2493.280	59.43	2.94	62.37	74.00	-11.63	200	261	peak
	6	2493.280	44.27	2.94	47.21	54.00	-6.79	200	261	AVG

Notes:

1) As shown in this section, the field strength limits are based on average limits. However, the peak field

strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.

2) The field strength is calculated by adding the Correct Factor. The basic equation with a sample calculation is as follows: Final Test Level = Reading+Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor









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Appendix K): Radiated Spurious Emissions

	Test Requirement:	47 CFR Part 15C Sect	tion 15.209 and ⁻	15.205			
	Test Method:	ANSI C63.10: 2013	6	\mathbf{S}		$\langle \mathbf{O} \rangle$	
		Frequency	Detector	RBW	VBW	Remark	
		0.009MHz-0.090MH	Iz Peak	10kHz	30kHz	Peak	13
ć		0.009MHz-0.090MH	Iz Average	10kHz	30kHz	Average	(\mathcal{S})
		0.090MHz-0.110MH	Iz Quasi-peak	10kHz	30kHz	Quasi- peak	
		0.110MHz-0.490MH	Iz Peak	10kHz	30kHz	Peak	
	Receiver Setup:	0.110MHz-0.490MH	Iz Average	10kHz	30kHz	Average	
		0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi- peak	
		30MHz-1GHz	Peak	100 kH	z 300kH z	Peak	
			Peak	1MHz	3MHz	Peak	
Č.		Above IGHZ	Peak	1MHz	10kHz	Average	(O)
		Frequency	Field strength microvolt/meter)	Limit (dBuV/m)	Remark	Measurer distance	ment (m)
		0.009MHz-0.490MHz	2400/F(kHz)	\mathbb{S}^{-1}	_	300	
		0.490MHz-1.705MHz	24000/F(kHz)		-	30	
		1.705MHz-30MHz	30	-	-	30	
2		30MHz-88MHz	100	40.0	Quasi-peak	3	10
	Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3	(\land)
ł		216MHz-960MHz	200	46.0	Quasi-peak	3	
		960MHz-1GHz	500	54.0	Quasi-peak	3	
		Above 1GHz	500	54.0	Average	3	
		Note: 15.35(b), Unless emissions is 20d applicable to the peak emission le	s otherwise speci B above the may equipment unde vel radiated by tl	fied, the link fimum perr r test. This ne device.	mit on peak ra mitted averag peak limit ap	adio frequen e emission l oplies to the	cy imit total









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1		tower.		
	C.	The antenna height is varied fr the ground to determine the ma Both horizontal and vertical po make the measurement.	om one meter to four meter aximum value of the field st larizations of the antenna a	rs above rength. re set to
	d.	For each suspected emission, case and then the antenna was meters (for the test frequency of tuned to heights 1 meter) and to degrees to 360 degrees to find	the EUT was arranged to it s tuned to heights from 1 m of below 30MHz, the antenr the rotatable table was turn I the maximum reading.	s worst eter to 4 าล was ed from 0
	e.	The test-receiver system was s Specified Bandwidth with Maxi	set to Peak Detect Function imum Hold Mode.	and
	f.	If the emission level of the EUT the limit specified, then testing of the EUT would be reported. have 10dB margin would be re peak or average method as sp sheet.	T in peak mode was 10dB k could be stopped and the p Otherwise the emissions th e-tested one by one using p pecified and then reported in	ower than beak values lat did not eak, quasi- li a data
	g.	Test the EUT in the lowest cha (2441MHz),the Highest channe	annel (2402MHz),the middle el (2480MHz)	channel
	h.	The radiation measurements a positioning for Transmitting mo which it is the worst case.	are performed in X, Y, Z axis ode, and found the X axis po	sositioning
	i.	Repeat above procedures until complete.	l all frequencies measured	was
Exploratory Test Mode:	No da	on-hopping transmitting mode wi ta type	th all kind of modulation and	d all kind of
Final Test Mode:	Co	ontinue TX		
Test Results:	Pa	ass		(A
Test Results:	Pa	ass	<u>(1</u>)	



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Report No. : EED39N80210201R2 **Radiated Spurious Emissions test Data:**

Radiated Emission below 1GHz:

			6	
Mode:	Transmitting	Channel:	high	6
Remark:				
itemaik.				

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
76.5600	V	58.26	-27.96	30.30	40.00	-9.70	QP
200.7200	V	50.24	-22.54	27.70	43.50	-15.80	QP
249.2200	V	46.18	-21.42	24.76	46.00	-21.24	QP
502.3900	V	39.89	-16.00	23.89	46.00	-22.11	QP
756.5300	V	37.89	-11.81	26.08	46.00	-19.92	QP
998.0600	V	45.28	-9.16	36.12	54.00	-17.88	QP
6			(Å		(2)	2	1
77.0540	Н	55.59	-28.09	27.50	40.00	-12.50	QP
191.0200	Н	57.63	-23.11	34.52	43.50	-8.98	QP
201.2860	Н	51.30	-22.55	28.75	43.50	-14.75	QP
246.3100	H	53.29	-21.42	31.87	46.00	-14.13	QP
664.3800	CH .	38.51	-13.52	24.99	46.00	-21.01	QP
998.0600	н	43.55	-9.16	34.39	54.00	-19.61	QP

Notes:

1) Through Pre-scan then find the frequency 2475MHz is the worst case mode and only the worst data was recorded.





Report No. : EED39N80210201R2 **Transmitter Emission above 1GHz:**

Mode:	Transmitting	Channel:	low
Remark:	(5)		(\sim)

....

				norizon	al				
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2428.000	44.29	2.80	47.09	74.00	-26.91	200	143	peak
2	7392.000	32.10	12.31	44.41	74.00	-29.59	151	0	peak
3	11166.000	30.39	16.79	47.18	74.00	-26.82	200	69	peak
4	13988.000	29.60	21.49	51.09	74.00	-22.91	100	17	peak
5	14906.000	30.16	22.97	53.13	74.00	-20.87	100	18	peak
6	16844.000	27.61	25.13	52.74	74.00	-21.26	100	358	peak

				VCITIOU					
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2428.000	49.24	2.80	52.04	74.00	-21.96	170	0	peak
2	3992.000	40.18	7.83	48.01	74.00	-25.99	100	205	peak
3	4978.000	38.08	9.55	47.63	74.00	-26.37	100	168	peak
4	11166.000	31.11	16.79	47.90	74.00	-26.10	200	52	peak
5	14804.000	30.14	22.84	52.98	74.00	-21.02	100	82	peak
6	17031.000	27.79	25.65	53.44	74.00	-20.56	100	50	peak
A N					•	1.4			

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	Mode:	Transmittir	ng	C	Channel:	mid			7
	Remark:		(3)		13		1	2	
	(\mathcal{O})		(c^{1})	Horizon	tal		6	()	
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2394.000	45.74	2.72	48.46	74.00	-25.54	100	32	peak
2	7392.000	32.38	12.31	44.69	74.00	-29.31	199	0	peak
3	10503.000	30.66	15.74	46.40	74.00	-27.60	200	18	peak
4	14566.000	30.23	22.30	52.53	74.00	-21.47	105	0	peak
5	14889.000	30.12	22.95	53.07	74.00	-20.93	100	248	peak
6	16844.000	28.11	25.13	53.24	74.00	-20.76	200	76	peak

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2394.000	52.32	2.72	55.04	74.00	-18.96	100	359	peak
2	2394.000	35.62	2.72	38.34	54.00	-15.66	100	359	AVG
3	3992.000	39.52	7.83	47.35	74.00	-26.65	100	43	peak
4	4995.000	37.16	9.59	46.75	74.00	-27.25	100	356	peak
5	7001.000	33.86	11.68	45.54	74.00	-28.46	200	195	peak
6	14889.000	30.07	22.95	53.02	74.00	-20.98	200	39	peak
7	16011.000	29.15	23.63	52.78	74.00	-21.22	100	137	peak
0				0.5		10.			A 1













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	Mode:	Transmitting		Channel: high						
	Remark:						1			
Horizontal										
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark	
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)		
1	2462.000	41.45	2.87	44.32	74.00	-29.68	100	154	peak	
2	8565.000	30.61	13.75	44.36	74.00	-29.64	200	109	peak	
3	11557.000	30.40	17.24	47.64	74.00	-26.36	200	0	peak	
4	14651.000	30.03	22.45	52.48	74.00	-21.52	100	0	peak	
5	14906.000	30.08	22.97	53.05	74.00	-20.95	100	213	peak	
6	17116.000	28.10	25.58	53.68	74.00	-20.32	200	324	peak	

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2462.000	48.98	2.87	51.85	74.00	-22.15	200	327	peak
2	3975.000	39.72	7.75	47.47	74.00	-26.53	200	190	peak
3	4978.000	38.40	9.55	47.95	74.00	-26.05	100	334	peak
4	8565.000	30.88	13.75	44.63	74.00	-29.37	178	0	peak
5	11251.000	31.04	16.91	47.95	74.00	-26.05	100	53	peak
6	16487.000	28.66	24.12	52.78	74.00	-21.22	142	0	peak

Notes:

1) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the pe ak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak values are measured.

2) The field strength is calculated by adding the Correct Factor. The basic equation with a sample calculation is as follows: Final Test Level = Reading +Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.









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