

TEST REPORT

APPLICANT: Linkplay Technology Inc.

PRODUCT NAME : WiiM Wake-up Light

MODEL NAME : WWL001

BRAND NAME: WiiM

FCC ID : 2BABF-WWL001

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2022-12-08

TEST DATE : 2022-12-27 to 2022-12-30

ISSUE DATE : 2023-02-22

Edited by:

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Change History					
Version Date Reason for change					
1.0	2023-02-22	First edition			



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Linkplay Technology Inc.		
Applicant Address: 8000 Jarvis Avenue Suite #130, Newark, CA 94560			
Manufacturer:	Linkplay Technology Inc.		
Manufacturer Address	8F-8036, Qianren Building, No.7, Yingcui Road, Jiangning		
Manufacturer Address:	District, Nanjing, China		

1.2. Equipment Under Test (EUT) Description

Product Name:	WiiM Wake-up Light			
Sample No.:	2#, 4#			
Hardware Version:	V04			
Software Version:	Linkplay.4.6.437761			
Modulation Technology:	DSSS, OFDM			
Modulation Mode:	802.11b, 802.11g, 802	2.11n (HT20)		
Operating Frequency Range:	802.11b/g/ n (HT20): 2	2412MHz–2462MHz		
Antenna Type:	Copper tube Antenna			
Antenna Gain:	2.80dBi			
	AC Adapter			
	Brand Name:	N/A		
	Model No.:	AD18W2002		
Accessory Information:	Serial No.:	N/A		
	Rated Output:	12V=1.5A		
	Rated Input:	100-240V~50/60Hz, 0.8A		
	Manufacturer:	Jiangsu Chenyang Electron Co.,Ltd.		

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ21070126W03, FCC ID: 2ANOG-A97), which issued on September 06, 2021 by Shenzhen Morlab Communications Technology Co., Ltd. We only recorded the radiated test result in this report.

Note 2: We use the dedicated software to control the EUT continuous transmission.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.





1.3. Modulation Type and Data Rate of EUT

Modulation Technology	Modulation Type	Data Rate (Mbps) Note1
	DBPSK	1
DSSS (802.11b)	DQPSK	2
	CCK	5.5/ 11
	BPSK	6 / 9
OFDM (902.44a)	QPSK	12 / 18
OFDM (802.11g)	16QAM	24 / 36
	64QAM	48 / 54
	BPSK	6.5
OFDM	QPSK	13/19.5
(802.11n (HT20))	16QAM	26/39
	64QAM	52/58.5/65

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

1.4. The Channel Number and Frequency

Test Mode	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
802.11b/g/n (HT20)	4	2427	11	2462
	5	2432		
	6	2437		
	7	2442		

Note 1: The black bold channels were selected for test.

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1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

N	ο.	Identity	Document Title
1		47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	N/A _{Note1}	N/A
2	N/A	Duty Cycle of Test Signal	N/A	N/A	N/A _{Note1}	N/A
3	15.247(b)	Maximum Peak and Average Conducted Output Power	N/A	N/A	N/A _{Note1}	N/A
4	15.247(a)	Bandwidth	N/A	N/A	N/A _{Note1}	N/A
5	15.247(d)	Conducted Spurious Emission and Band Edge	N/A	N/A	N/A _{Note1}	N/A
6	15.247(e)	Power Spectral Density	N/A	N/A	N/A _{Note1}	N/A
7	15.207	Conducted Emission	Aug 05, 2021	Su Zhan	PASS	No deviation
8	15.247(d)	Restricted Frequency Bands	Aug 01&02, 2021	Gao Jianrou	PASS	No deviation
9	15.209, 15.247(d)	Radiated Emission	Aug 01, 2021	Gao Jianrou	PASS	No deviation

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: SZ21070126W03, FCC ID: 2ANOG-A97), which issued on September 06, 2021 by Shenzhen Morlab Communications Technology Co., Ltd.





Note 2: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013, KDB558074 D01 v05r02.

Note 3: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 11.5dB contains two parts that cable loss 1.5dB and Attenuator 10dB.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.6. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR Part 15C Requirements

2.1. Conducted Emission

2.1.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/ 50Ω line impedance stabilization network (LISN).

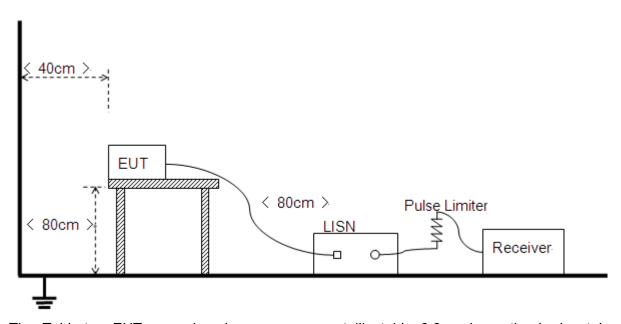
Fraguency Dange (MUz)	Conducted Limit (dBμV)		
Frequency Range (MHz)	Quai-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
5 - 30	60	50	

NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

2.1.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference





Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.

2.1.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: <u>EUT + ADAPTER + USB CABLE + PC + WIFI TX</u>

Test Voltage: AC 120V/60Hz

The measurement results are obtained as below:

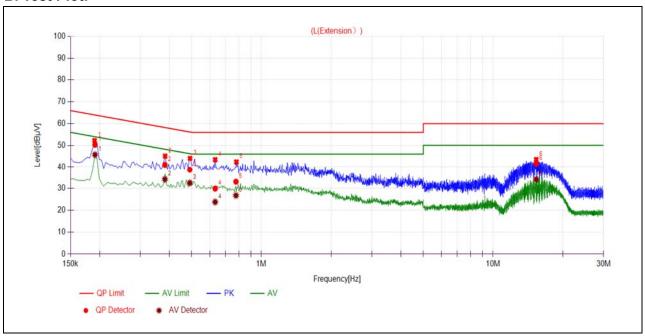
 $E [dB\mu V] = U_R + L_{Cable loss} [dB] + A_{Factor}$

U_R: Receiver Reading

A_{Factor}: Voltage division factor of LISN



B. Test Plot:



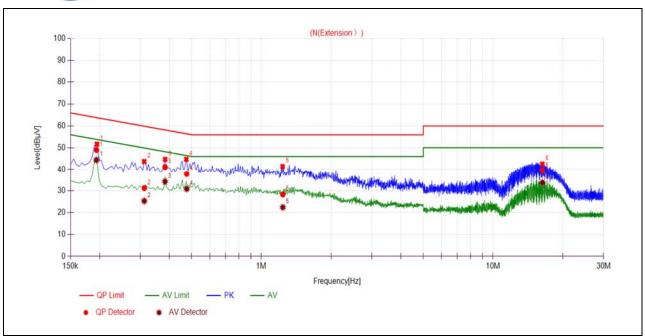
(L Phase)

No. Fre.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Limit (dBµV)		Power-line	Verdict
	(MHz)	Quai-peak	Average	Quai-peak	Average		roraiot
1	0.1913	50.30	45.69	63.98	53.98	Line	PASS
2	0.3832	41.01	34.21	58.21	48.21		PASS
3	0.4909	38.69	32.51	56.15	46.15		PASS
4	0.6314	29.92	23.76	56.00	46.00		PASS
5	0.7765	33.08	26.75	56.00	46.00		PASS
6	15.3606	41.57	34.18	60.00	50.00		PASS

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(N Phase)

No.	Fre.	Emission L	_evel (dBμV) Limit (dBμV)		Power-line	Verdict	
	(MHz)	Quai-peak	Average	Quai-peak	Average		
1	0.1941	49.04	44.43	63.86	53.86		PASS
2	0.3122	31.28	25.35	59.91	49.91	Nantoni	PASS
3	0.3836	41.13	34.29	58.20	48.20		PASS
4	0.4759	37.91	30.93	56.41	46.41	Neutral	PASS
5	1.2374	28.33	22.43	56.00	46.00		PASS
6	16.3387	39.43	33.83	60.00	50.00		PASS

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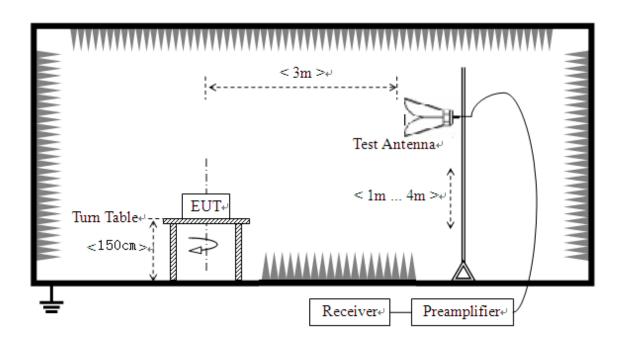
2.2. Restricted Frequency Bands

2.2.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

2.2.2. Test Description

Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.





2.2.3. Test Procedure

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1GHz

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

2.2.4. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

A. Test Verdict:

	Frequency	Detector	Receiver Reading	A _T	A _{Factor}	Max. Emission	Limit	Verdict
Channel	(MHz)	PK/ AV	U _R (dBµV)	(dB)	(dB@3m)	E (dBµV/m)	(dBµV/m)	Volume
1	2324.64	PK	24.13	6.74	27.20	58.07	74	PASS
1	2390.00	AV	11.23	6.74	27.20	45.17	54	PASS
11	2485.83	PK	23.47	6.74	27.20	57.41	74	PASS
11	2483.50	AV	11.60	6.74	27.20	45.54	54	PASS





B. Test Plot:



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



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(PEAK, Channel 11, 802.11b)



(AVERAGE, Channel 11, 802.11b)



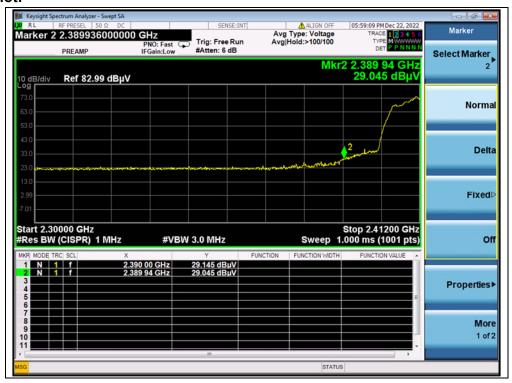


802.11g Mode

A. Test Verdict:

Channel	Frequency	Frequency Detector		Receiver Reading	A _T	A _{Factor}	Max. Emission	Limit	Verdict
Chamilei	(MHz)	PK/ AV	U_R (dB μ V)	(dB)	(dB@3m)	E (dBµV/m)	(dBµV/m)	verdict	
1	2390.00	PK	29.15	6.74	27.20	63.09	74	PASS	
1	2389.82	AV	14.90	6.74	27.20	48.84	54	PASS	
11	2483.50	PK	34.11	6.74	27.20	68.05	74	PASS	
11	2483.62	AV	16.08	6.74	27.20	50.02	54	PASS	

B. Test Plot:



(PEAK, Channel 1, 802.11g)

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(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)







(AVERAGE, Channel 11, 802.11g)





802.11n (HT20) Mode

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U _R	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E	Limit (dBµV/m)	Verdict
	(1011 12)	PK/ AV	(dBµV)	(ub)	(db@3iii)	∟ (dBµV/m)	(ασμν/ιιι)	
1	2389.71	PK	34.21	6.74	27.20	68.15	74	PASS
1	2390.00	AV	16.10	6.74	27.20	50.04	54	PASS
11	2483.93	PK	33.53	6.74	27.20	67.47	74	PASS
11	2483.50	AV	14.38	6.74	27.20	48.32	54	PASS

B. Test Plot:



(PEAK, Channel 1, 802.11n (HT20))







(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



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(AVERAGE, Channel 11, 802.11n (HT20))





2.3. Radiated Emission

2.3.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

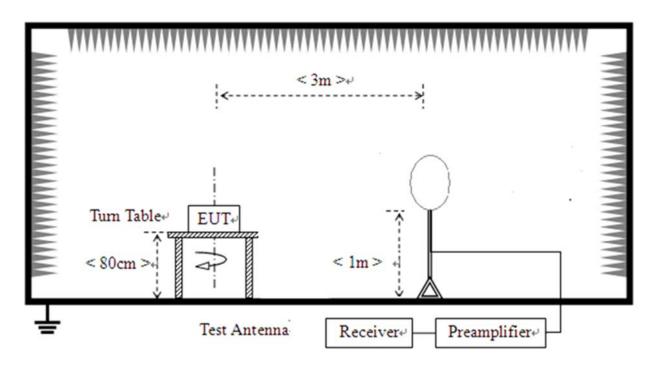
Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



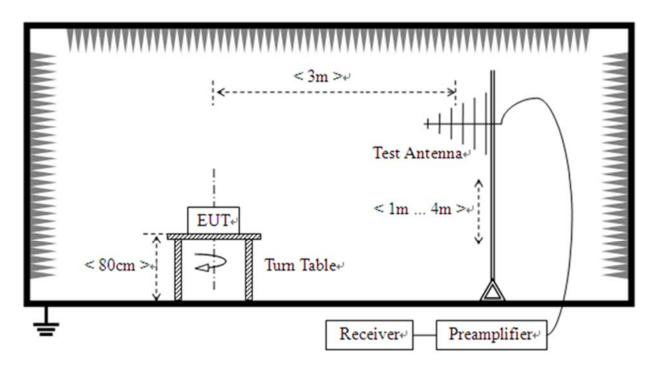
2.3.2. Test Description

Test Setup:

1) For radiated emissions from 9kHz to 30MHz



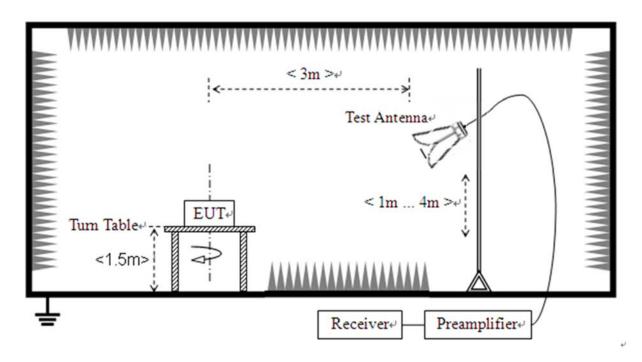
2) For radiated emissions from 30MHz to1GHz







3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.





2.3.3. Test Result

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According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

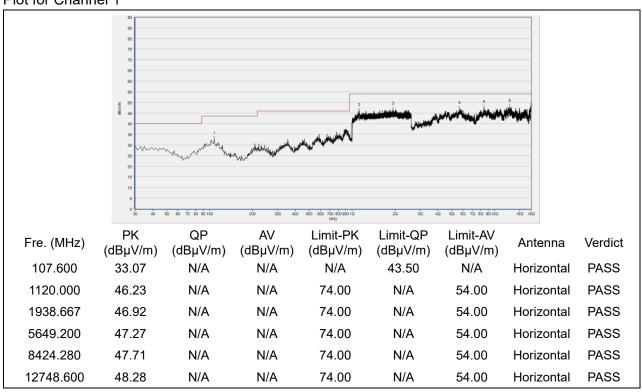
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

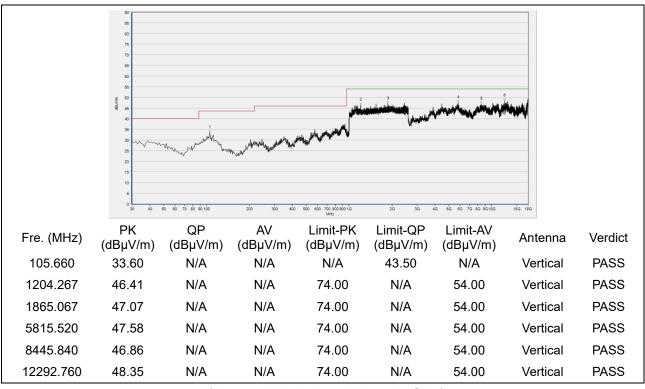


802.11b Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

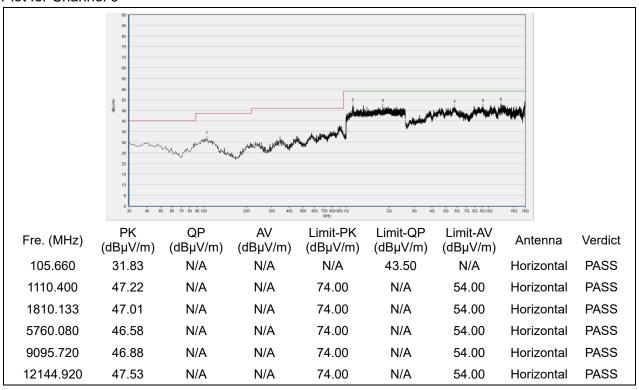


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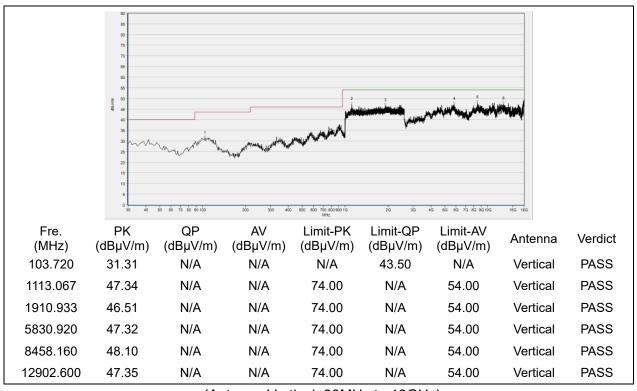
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Plot for Channel 6



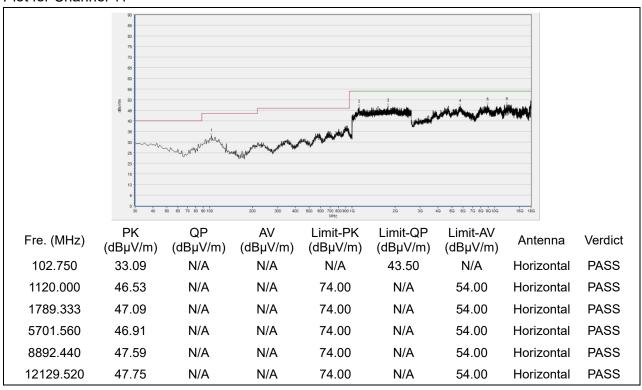
(Antenna Horizontal, 30MHz to 18GHz)



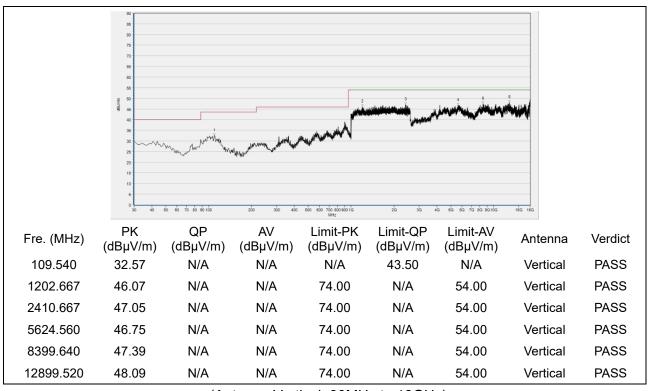




Plot for Channel 11



(Antenna Horizontal, 30MHz to 18GHz)

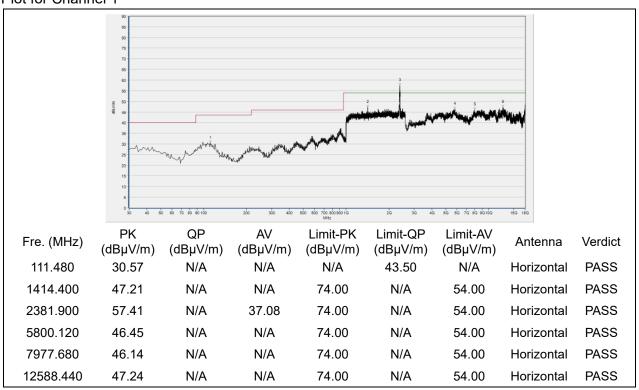




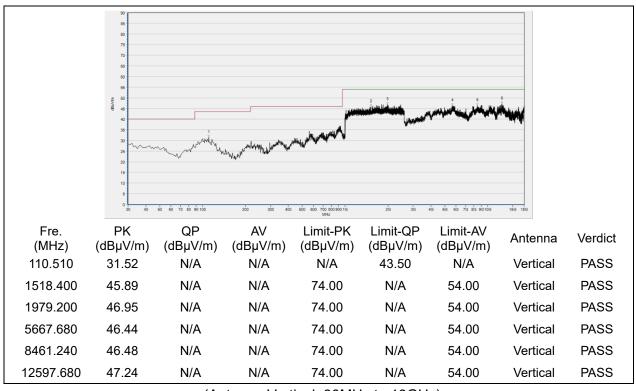


802.11g Mode

Plot for Channel 1



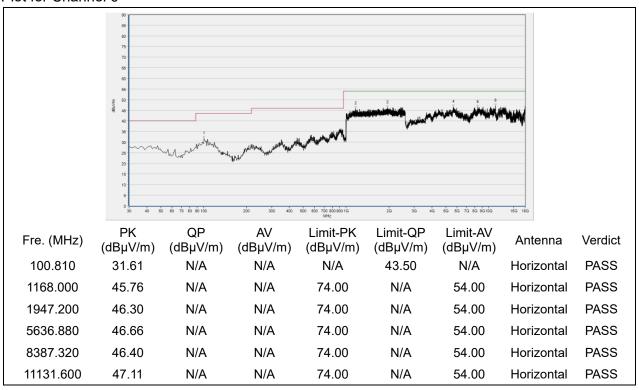
(Antenna Horizontal, 30MHz to 18GHz)



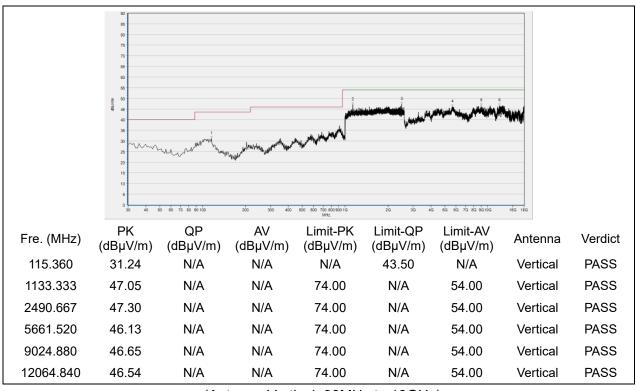




Plot for Channel 6



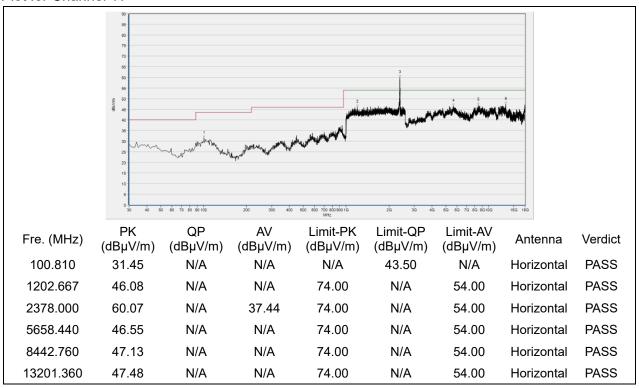
(Antenna Horizontal, 30MHz to 18GHz)



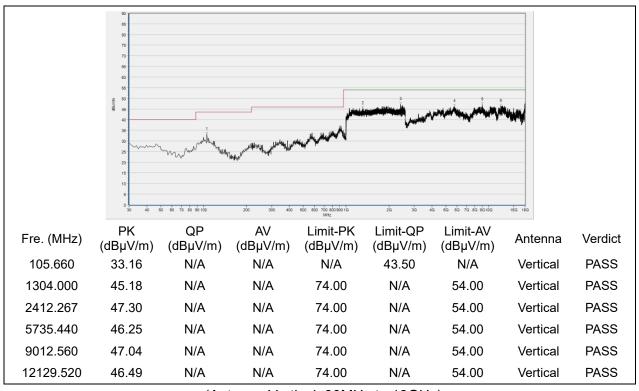




Plot for Channel 11



(Antenna Horizontal, 30MHz to 18GHz)

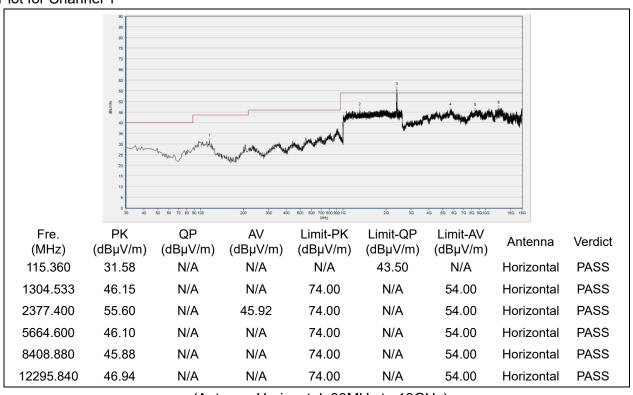




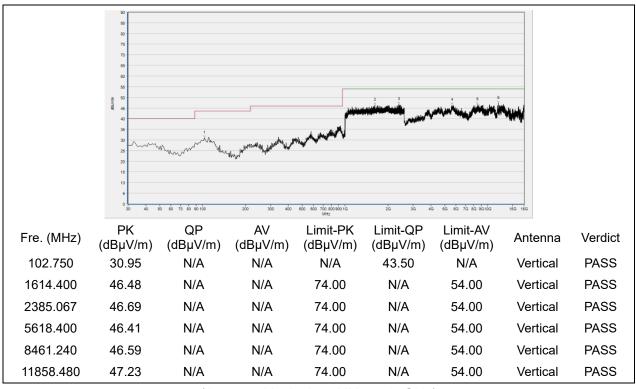


802.11n (HT20) Mode

Plot for Channel 1



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

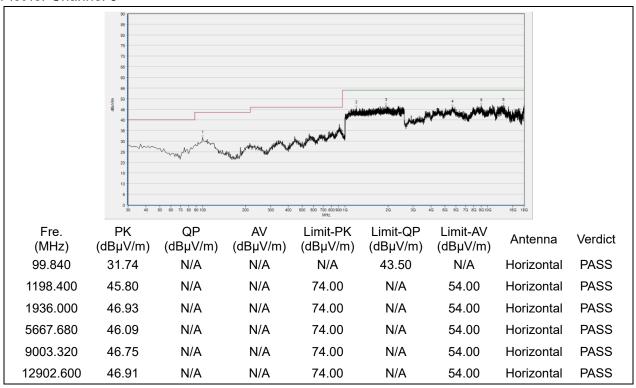


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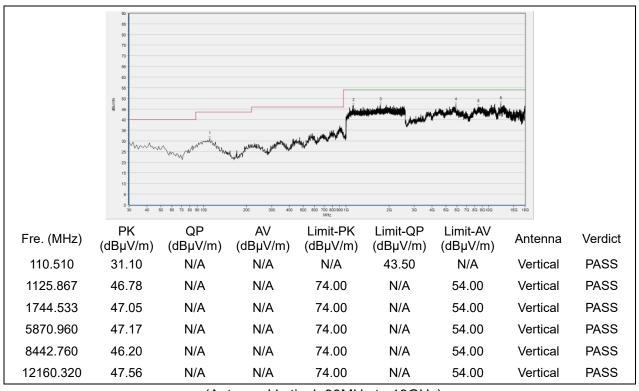
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Plot for Channel 6



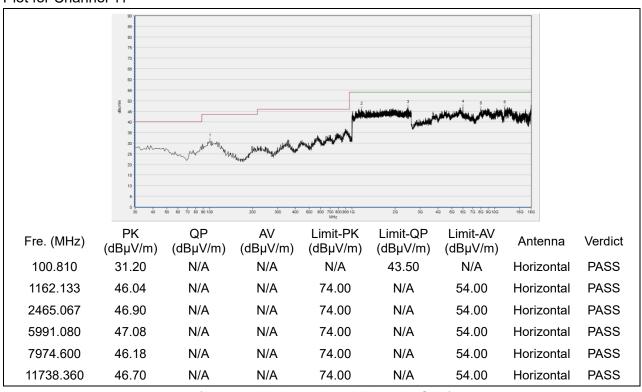
(Antenna Horizontal, 30MHz to 18GHz)



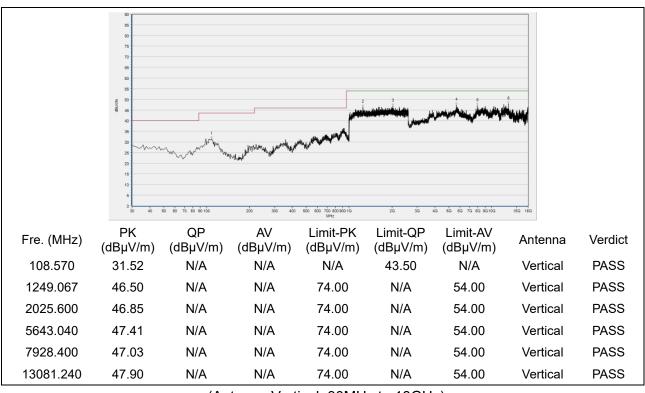




Plot for Channel 11



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)



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Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
Laboratory Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		
Telephone:	+86 755 36698555		
Facsimile:	+86 755 36698525		

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipments Utilized

4.1 Conducted Emission Test Equipments

	•				
Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2022.03.03	2023.03.02
LISN	8127449	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter	VTSD 9561	VTSD	Caburarzhaal	2022.07.06	2023.07.05
(10dB)	F-B #206	9561-F	Schwarzbeck	2022.07.00	2023.07.03
Coaxial					
Cable(BNC)	CB01	EMC01	Morlab	N/A	N/A
(30MHz-26GHz)					
mobile phone	N/A	PLK-AL10	HONOR	N/A	N/A

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0



4.3 Radiated Test Equipments

Equipment		_	B. C	0.1.5.4	D D (
Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2022.07.06	2023.07.05
Test Antenna -	0162 510	VIII D 0462	Cabusarahaals	2022 05 25	2025 05 24
Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna -	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Loop	1319-022	FINIZD 1319	Scriwarzbeck	2022.02.11	2023.02.10
Test Antenna –	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Horn	01774	BB11/(3120B	CONWAIZDOOK	2022.07.10	2020.07.12
Test Antenna –	BBHA9170#7	BBHA 9170	Schwarzbeck	2022.07.14	2025.07.13
Horn	73	BBIII/(01/0	Conwarzscok	2022.07.14	2020.07.10
Coaxial Cable					
(N male)	CB04	EMC04	Morlab	N/A	N/A
(9KHz-30MHz)					
Coaxial Cable					
(N male)	CB02	EMC02	Morlab	N/A	N/A
(30MHz-26GHz)					
Coaxial Cable					
(N male)	CB03	EMC03	Morlab	N/A	N/A
(30MHz-26GHz)					
Coaxial Cable					
(N male)	CB05	EMC05	Morlab	N/A	N/A
(30MHz-40GHz)					
1-18GHz	61171/61172	S020180L32	Tonscend	2022.07.08	2023.07.07
pre-Amplifier	0117 1/01172	03	Torisocria	2022.01.00	2020.01.01
18-26.5GHz	46732	S10M100L38	Tonscend	2022.07.08	2023.07.07
pre-Amplifier	40702	02	Torisocria	2022.07.00	2020.01.01
26-40GHz	56774	S40M400L40	Tonscend	2022.07.08	2023.07.07
pre-Amplifier	30114	02	TOHSCEIR	2022.01.00	2020.01.01
Notch Filter	N/A	WRCG-2400-	Wainwright	2022.07.08	2023.07.07
NOIGHT IIIGH	IN/A	2483.5-60SS	vvanivviigiit	2022.01.00	2020.01.01
Anechoic	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05
Chamber	14// (0111 0111 0111	OI (I	2020.01.00	2020.01.00

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