

FCC Test Report

Report No.: HK2407033589-E

Test Report
On Behalf of
Intracom Asia Co., Ltd.
For
Wireless Mouse
Model No.: M7068, 190374

FCC ID: 2ADQY-190374MS

Prepared For: Intracom Asia Co., Ltd.

4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Jul. 03, 2024 ~ Jul. 10, 2024

Date of Report: Jul. 10, 2024

Report Number: HK2407033589-E

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Test Result Certification

Applicant's Name.....: Intracom Asia Co., Ltd.

Address...... 4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221,

Taiwan

Manufacturer's Name.....: Intracom Asia Co., Ltd.

4F., No.77, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221,

Taiwan

Product Description

Trade Mark.....: N/A

Product Name: Wireless Mouse

Model and/or Type Reference..: M7068, 190374

FCC Rules and Regulations Part 15 Subpart C Section 15.249

Report No.: HK2407033589-E

Standards ANSI C63.10: 2013

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Date of Test.....

Date (s) of Performance of Tests.............. Jul. 03, 2024 ~ Jul. 10, 2024

Date of Issue.......Jul. 10, 2024

Test Result Pass

Testing Engineer

en lian

Len Liao

Technical Manager

NOV

Vlan

Sliver Wan

Authorized Signatory

Jason Whou

Jason Zhou

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** Modified History **

Revis	ion		Description		Issued	Data	Remark	
Revisio	n 1.0	Initial	Test Report Releas	е	Jul. 10,	2024	Jason Zhou	ı
CTING	- 1	TING	STING		CTING	-cTM	G ed	TING
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1. Test Summary

1.1 Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	N/A
RADIATED EMISSION TEST	15.249(a)/15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215(c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

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1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2

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2. General Information

2.1 General Description of EUT

Equipment:	Wireless Mouse	X TESTING	OK TESTING
Model Name:	M7068	O HUM	HUM
Series Model:	190374	CTING	
Model Difference:	All model's the function, software only with product model named of M7068.		
FCC ID:	2ADQY-190374MS	100	all Din
Antenna Type:	PCB Antenna	"IAK TESTING	HUAKTES
Antenna Gain:	-4.62dBi	.	9
Operation Frequency:	2402-2480MHz		
Number of Channels:	40CH	Y TESTING	W TESTING
Modulation Type:	GFSK	10 HON	Mr. Huse
Power Source:	DC1.5V From Battery	ESTING	
Power Rating:	DC1.5V From Battery	HUAK	· KTESTING

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.

AFICATION.

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2.2 Carrier Frequency of Channels

T.		Operation Frequ	uency each of chanr	nel	
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	15	2430MHz	29	2458MHz
2	2404MHz	16	2432MHz	30	2460MHz
3	2406MHz	INK TESTING	2434MHz	31	2462MHz
4 HUAKT	2408MHz	18	2436MHz	32	2464MHz
5	2410MHz	19	2438MHz	33	2466MHz
6	2412MHz	20	2440MHz	34	2468MHz
JKTESTII	2414MHz	21	2442MHz	35	2470MHz
8	2416MHz	22	2444MHz	36	2472MHz
9	2418MHz	23	2446MHz	37	2474MHz
5 ^{th/G} 10	2420MHz	24	2448MHz	38	2476MHz
11 🚳	2422MHz	25	2450MHz	39	2478MHz
12	2424MHz	26	2452MHz	40	2480MHz
13	2426MHz	JAK 122	2454MHz	HUAKTE	TEST IG
14	2428MHz	28	2456MHz	1	HUAN

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2.3 Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2402MHz Middle Channel: 2440MHz High Channel: 2480MHz

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2.4 Description of Test Setup

Operati	ion of EUT during	radiation testing:	0 11.	MINN.	
UAK TESTING	MUAKTESTAN	AN TESTING			
ESTING	MANY TESTING	EUT			

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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Item	Equipment	Trade Mark	Model/Type No.	Specification	Note	
1	Wireless Mouse	N/A	M7068	N/A	EUT	
	HUAN		HUAN	(HILP		
		AK TESTING		OK TESTING		
-6	ING TESTING	D HO.	STING TESTING	O HU	TESTING	
HUAKTE	HUAN	HUAK	HUAR	HUAKIL	HUAR	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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2.5 Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2024/02/20	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	1 Year
6	Preamplifier	EMCI	EMC05184 5S	HKE-006	2024/02/20	1 Year
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	1 Year
9	6d Attenuator	Pasternack	6db	HKE-184	2024/02/20	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	O) HO	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1	TIME OF
16	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2024/02/20	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	1	1
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2024/02/20	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	1	/

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3. Conducted Emissions Test

3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

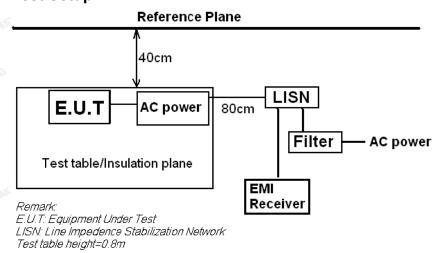
Report No.: HK2407033589-E

Гианизман	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	SS A	CLASS B				
(111112)	Q.P.	Ave.	Q.P.	Ave.			
0.15 - 0.50	79	66	66-56*	56-46*			
0.50 - 5.00	73	60	56	46			
5.00 - 30.0	73	60	60	50			

^{*} Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes

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3.4 Test Result

Not applicable.

Note: EUT Power Supply by Battery Powered, so this test item not applicable.

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4. Radiated Emission Test

4.1 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

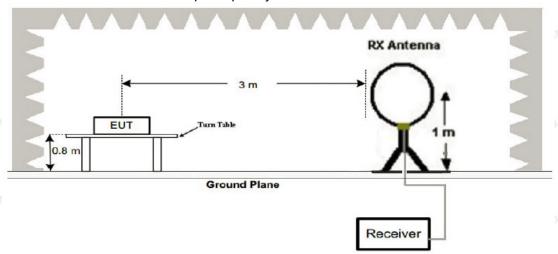
Report No.: HK2407033589-E

Frequency	Distance	Radiated	Radiated
(MHz)	(Meters)	(dBµV/m)	(µV/m)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40	100
88-216	JKTEST 3	43.5	150
216-960	AHO, 3	46	200
Above 960	3 NTEST	54	500

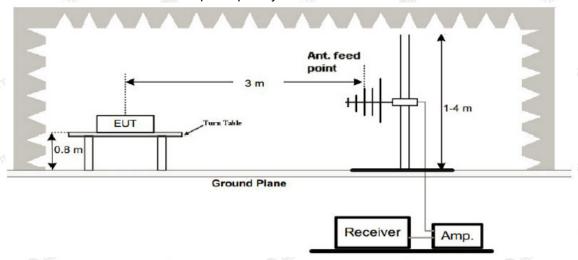
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

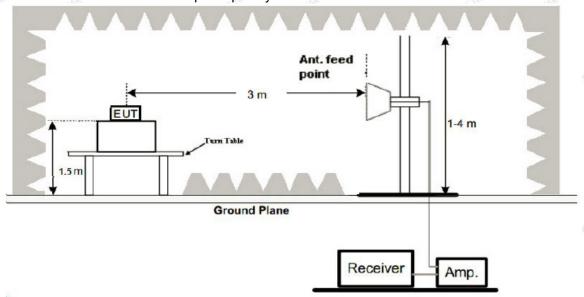


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

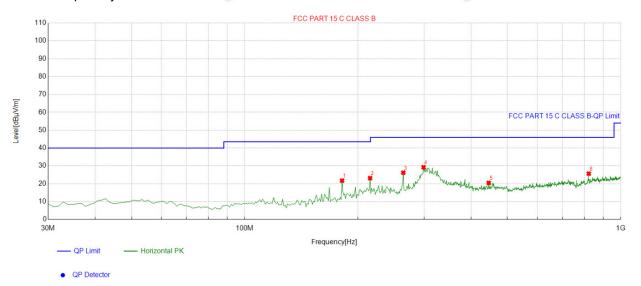
All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.

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Below 1GHz Test Results:

Antenna polarity: H

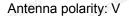


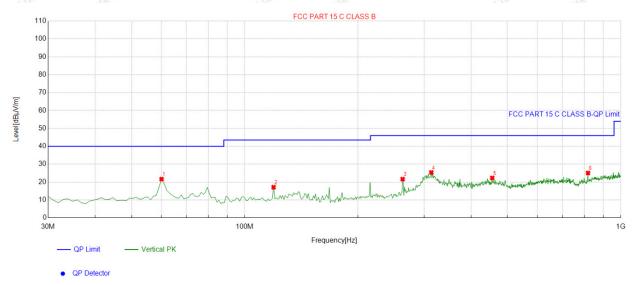
Su	Suspected List									
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
N	Ο.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	1	181.47147	-16.13	37.89	21.76	43.50	21.74	100	93	Horizontal
2	2	215.45545	-14.72	37.89	23.17	43.50	20.33	100	178	Horizontal
3	3	264.00400	-13.15	39.36	26.21	46.00	19.79	100	236	Horizontal
4	1	298.95895	-11.75	40.98	29.23	46.00	16.77	100	98	Horizontal
	5	445.57557	-8.66	29.13	20.47	46.00	25.53	100	67	Horizontal
(3	822.31231	-2.73	28.39	25.66	46.00	20.34	100	170	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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	Suspe	Suspected List									
1		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
Į.	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
	1	60.1001	-13.96	35.62	21.66	40.00	18.34	100	197	Vertical	
	2	119.32932	-15.94	33.09	17.15	43.50	26.35	100	285	Vertical	
L	3	263.03303	-13.20	34.85	21.65	46.00	24.35	100	169	Vertical	
	4	313.52352	-11.54	36.93	25.39	46.00	20.61	100	166	Vertical	
	5	455.28528	-8.84	31.16	22.32	46.00	23.68	100	106	Vertical	
	6	818.42842	-2.80	27.89	25.09	46.00	20.91	100	0	Vertical	

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
HUAD	HUAR-	- HUAR
ON TESTI	β 	KTESTING
STING TETING OF HE	STING TESTING OF HO	STRUG TESTING
HIAR-	HIAK I	HUME HUME

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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Above 1 GHz Test Results:

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	100.09	-5.84	94.25	114	-19.75	peak
2402	84.65	-5.84	78.81	94	-15.19	AVG
4804	52.27	-3.64	48.63	74	-25.37	peak
4804	39.46	-3.64	35.82	54	-18.18	AVG
7206	49.92	-0.95	48.97	74	-25.03	peak
7206	38.54	-0.95	37.59	54	-16.41	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

voi tioui.						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2402	101.75	-5.84	95.91	114	-18.09	peak
2402	82.05	-5.84	76.21	94	-17.79	AVG
4804	51.64	-3.64	48	74	-26	peak
4804	40.09	-3.64	36.45	54	-17.55	AVG
7206	50.06	-0.95	49.11	74	-24.89	peak
7206	38.81	-0.95	37.86	54	-16.14	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2440	103.35	-5.71	97.64	114	-16.36	peak
2440	73.64	-5.71	67.93	94	-26.07	AVG
4880	47.67	-3.51	44.16	74	-29.84	peak
4880	43.51	-3.51	40	54	-14	AVG
7320	49.80	-0.82	48.98	74	-25.02	peak
7320	42.96	-0.82	42.14	54	-11.86	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

ortioai.						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2440	102.55	-5.71	96.84	114	-17.16	peak
2440	80.64	-5.71	74.93	94	-19.07	AVG
4880	57.18	-3.51	53.67	74	-20.33	peak
4880	43.68	-3.51	40.17	54	-13.83	AVG
7320	52.08	-0.82	51.26	74	-22.74	peak
7320	40.37	-0.82	39.55	54	-14.45	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.



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CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	105.54	-5.65	99.89	114	-14.11	peak
[©] 2480	80.82	-5.65	75.17	94	-18.83	AVG
4960	53.51	-3.43	50.08	74 g (^{M)A}	-23.92	peak
4960	43.30	-3.43	39.87	54	-14.13	AVG
7440	49.97	-0.75	49.22	74	-24.78	peak
7440	38.71	-0.75	37.96	54	-16.04	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

To tioui.					41.3	41.37
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2480	105.25	-5.65	99.6	114	-14.4	peak
2480	81.12	-5.65	75.47	94	-18.53	AVG
4960	53.43	-3.43	50	74	-24	peak
4960	42.77	-3.43	39.34	54	-14.66	AVG
7440	49.56	-0.75	48.81	74	-25.19	peak
7440	40.31	-0.75	39.56	54	-14.44	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4)The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

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5. Band Edge

5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1MHz and VBW to 3MHz, to measure the conducted peak band edge.

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5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

		600,000	1732	100-2003		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.55	-5.81	48.74	74	-25.26	peak
2310	/	-5.81	1	54	1	AVG
2390	53.64	-5.84	47.8	74	-26.2	peak
2390	HUAK TESTI	-5.84	HUAK TEST	54	KTESIN /	AVG
2400	50.05	-5.84	44.21	74	-29.79	peak
2400	TING /	-5.84	1 1116	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.99	-5.81	51.18	74	-22.82	peak
2310	1	-5.81	1	54	1	AVG
2390	53.35	-5.84	47.51	74	-26.49	peak
2390	1	-5.84	HUKTES	54	1	AVG
2400	52.29	-5.84	46.45	74	-27.55	peak
2400	TESTVG OF	-5.84	STING / TEST	54	SING	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.51	-5.65	48.86	74	-25.14	peak
2483.50	A TEST	-5.65	HVATESTA	54	1	AVG
2500.00	52.78	-5.65	47.13	74	-26.87	peak
2500.00	STAG WHAT	-5.65	TING /	54	1 myG	AVG

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Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

26/12	26/12	2673	As a		26/0	26/13
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	52.32	-5.65	46.67	74	-27.33	peak
2483.50	1	-5.65	O 1	54	us / 🥨	AVG
2500.00	50.54	-5.65	44.89	74	-29.11	peak
2500.00	HUAK TE	-5.65	HUAKTE	54	HUAY TES	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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6. Occupied Bandwidth Measurement

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW= 20KHz. VBW= 62KHz, Span= 4MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

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6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	2.013	PASS
2440 MHz	2.024	PASS
2480MHz	2.026	PASS

CH: 2402MHz



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CH: 2440MHz



CH: 2480MHz



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7. Antenna Requirement

Standard Applicable

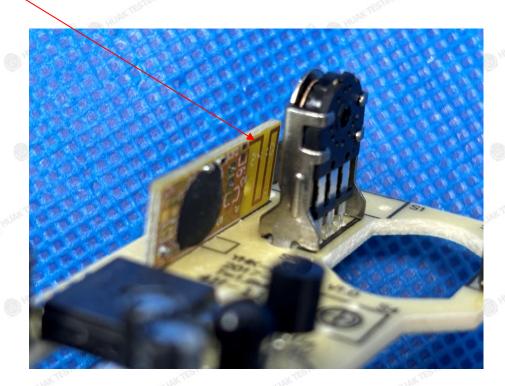
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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Antenna Connected Construction

The antenna used in this product is a PCB Antenna, is a permanently attached antenna on the PCB. It conforms to the standard requirements. The directional gains of antenna used for transmitting is -4.62dBi.

Antenna



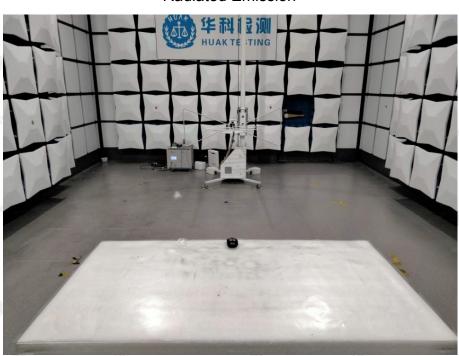
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8. Photographs of Test

Radiated Emission

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9. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

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End of test report--

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