

Global United Technology Services Co., Ltd.

Report No.: GTS201806000115F01

FCC Report (Bluetooth)

Applicant: MOKO TECHNOLOGY LIMITED

Address of Applicant: 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng

Street, Longhua District

Manufacturer: MOKO TECHNOLOGY LIMITED

Address of 2F, Building1, No. 37 Xiaxintang Xintang village, Fucheng

Street, Longhua District Manufacturer:

Equipment Under Test (EUT)

Product Name: H2

Model No.: H2-i5202NN, H2-X5202NN, H2-i5202D3, H2-X5202D3,

> H2-i5202D6, H2-X5202D6, H2-i5202DH, H2-X5202DH, H2-i5201NN, H2-X5201NN, H2-i5201D3, H2-X5201D3, H2-i5201D6, H2-X5201D6, H2-i5201DH, H2-X5201DH

FCC ID: 2AO94-H2

FCC CFR Title 47 Part 15 Subpart C Section 15.247 **Applicable standards:**

Date of sample receipt: June 04, 2018

Date of Test: June 04, 2018 - June 09, 2018

Date of report issued: June 09, 2018

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	June 09 2018	Original

Prepared By:	Trankly	Date:	June 09, 2018
	Project Engineer	-	
Check By:	Andy un	Date:	June 09, 2018
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

•			
Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement unce	rtainty is for coverage factor of k=	=2 and a level of confidence of 9	5%.



5 General Information

General Description of EUT

Product Name:	H2
Model No.:	H2-i5202NN, H2-X5202NN, H2-i5202D3, H2-X5202D3,
	H2-i5202D6, H2-X5202D6, H2-i5202DH, H2-X5202DH,
	H2-i5201NN, H2-X5201NN, H2-i5201D3, H2-X5201D3,
	H2-i5201D6, H2-X5201D6, H2-i5201DH, H2-X5201DH
Test Model No:	H2i5202NN
Remark: All above models are The only differences model na	identical in the same PCB layout, interior structure and electrical circuits. me for commercial purpose.
Serial No.:	2AO94H2
Test sample(s) ID:	GTS201806000115-1
Sample(s) Status	Engineer sample
Operation Frequency:	2402MHz-2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.8dBi
Power Supply:	DC 3V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
•		·	. !	·	•	• !	·
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Description of Support Units

None

Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with

Registration No.: 9079A-2, August 15, 2016.

Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



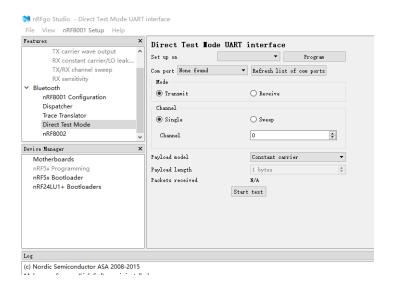
Additional Instructions

EUT Software Settings:

Mode	Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
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Power level setup in software					
Test Software Name	nRFgo Studio				
Mode	Channel	Frequency (MHz)	Soft Set		
GFSK	CH01	2402			
	CH21	2442	TX level : default		
	CH40	2480			

Run Software





6 Test Instruments list

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2017	June 27 2018
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018
16	Band filter	Amindeon	82346	GTS219	June 28 2017	June 27 2018
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2017	June 27 2018
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2017	June 27 2018
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	June 28 2017	June 27 2018

Conducted Emission:

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 28 2017	June 27 2018
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 28 2017	June 27 2018
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 28 2017	June 27 2018
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2018

Gen	eral used equipment:					
lt e m	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 28 2017	June 27 2018



7 Test results and Measurement Data

Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

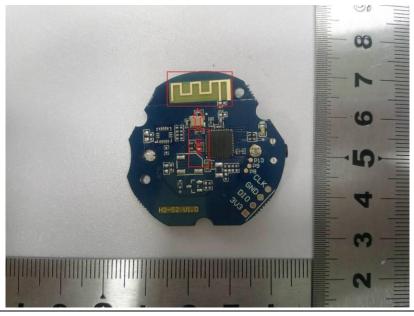
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is integral antenna, the best case gain of the antenna is 1.8dBi



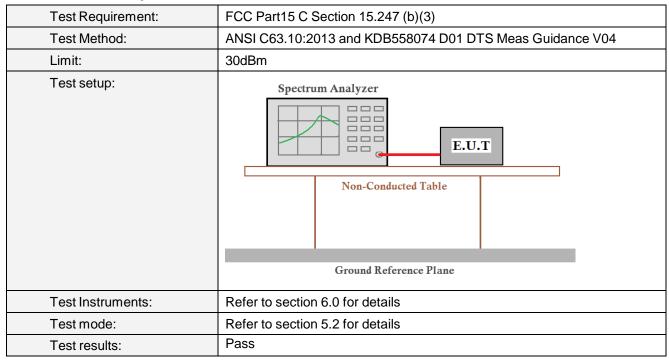


Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	veep time=auto				
Limit:	Frequency range (MHz) Limit (dBuV) 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.				
Test setup:	Reference Plane					
	Remark E.U.T Remark E.U.T: Equipment Under Test LISN Filter AC power EMI Receiver					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2009 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	N/A					



Conducted Output Power

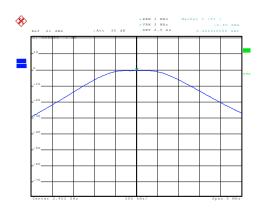


Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-0.40		
Middle	-0.26	30.00	Pass
Highest	-1.19		

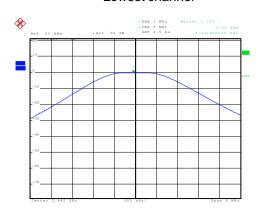


Test plot as follows:



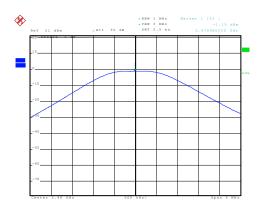
Date: 6.JUN.2018 10:51:24

Lowest channel



Date: 6.JUN.2018 10:52:39

Middle channel



Date: 6.JUN.2018 10:40:26

Highest channel



Channel Bandwidth

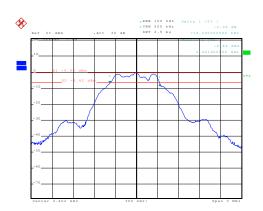
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

Test channel	Test channel Channel Bandwidth (MHz)		Result
Lowest	0.714		
Middle	0.714	>500	Pass
Highest	0.708		

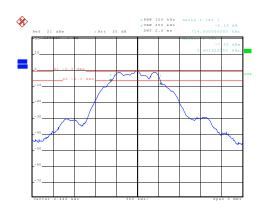


Test plot as follows:



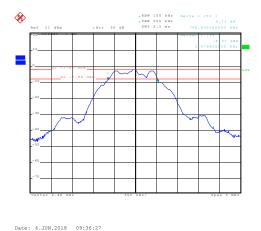
Date: 6.JUN.2018 10:58:54

Lowest channel



Date: 6.JUN.2018 10:56:12

Middle channel



Highest channel



Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04		
Limit:	8dBm/3kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

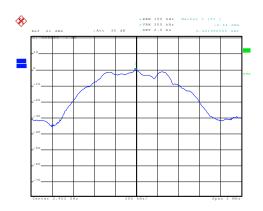
Test channel	Power Spectral Density (dBm/3KHz)	Limit(dBm/3kHz)	Result
Lowest	-15.67		
Middle	-15.63	8.00	Pass
Highest	-16.46		

Remark:

Power Spectral Density (dBm/3kHz)=PSD value(RBW=100kHz)-10log(100kHz/3kHz)

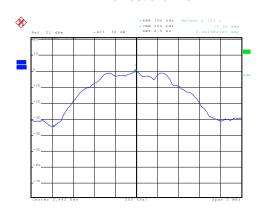


Test plot as follows:



Date: 6.JUN.2018 11:08:08

Lowest channel



Date: 6.JUN.2018 11:10:21

Middle channel



Date: 6.JUN.2018 11:13:35

Highest channel

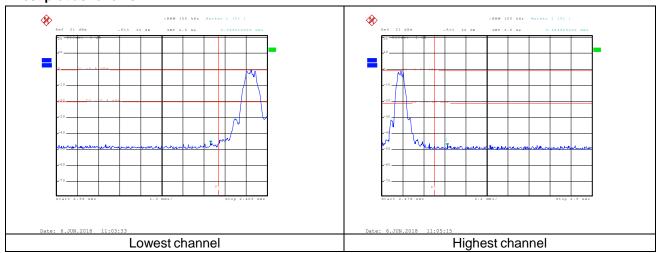


Band edges

Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04				
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.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				

Test plot as follows:





Radiated Emission Method

Radiated Emission Wethod						
Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:20)13				
Test Frequency Range:	All of the restrict 2390MHz, 2483				and's (2310MHz to	
Test site:	Measurement D		,			
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque		Limit (dBuV/		Value	
	Above 1	_	54.0		Average	
	Above I	GHZ	74.0	00	Peak	
Test setup:	Test Antenna - < 1m 4m >					
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. 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 					
Test Instruments:	Refer to section	ode is recorde 6.0 for details	•	-		
Test mode:	Refer to section					
Test results:	Pass					
	7 doo					



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test channel: Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	56.35	-15.05	41.30	74.00	-32.70	Horizontal
2400.00	75.81	-15.01	60.80	74.00	-13.20	Horizontal
2390.00	54.04	-15.05	38.99	74.00	-15.01	Vertical
2400.00	74.46	-15.01	59.45	74.00	-14.55	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	45.13	-15.05	30.08	54.00	-23.92	Horizontal
2400.00	59.01	-15.01	44.00	54.00	-10.00	Horizontal
2390.00	46.68	-15.05	31.63	54.00	-22.37	Vertical
2400.00	56.03	-15.01	41.02	54.00	12.98	Vertical

Test channel: Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	73.03	-14.68	58.35	74.00	-15.65	Horizontal
2500.00	54.87	-14.60	40.27	74.00	-33.73	Horizontal
2483.50	71.42	-14.68	56.74	74.00	-17.26	Vertical
2500.00	53.76	-14.60	39.16	74.00	-34.84	Vertical

Average value:

					T	
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.14	-14.68	37.46	54.00	-16.54	Horizontal
2500.00	48.81	-14.60	34.21	54.00	-19.79	Horizontal
2483.50	45.53	-14.68	30.85	54.00	-23.15	Vertical
2500.00	46.67	-14.60	32.07	54.00	-21.93	Vertical

Remark:

- 1. Final Level=Receiver Read level + Correct factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. Correct factor= Antenna Factor + Cable Loss Preamplifier Factor

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



Spurious Emission

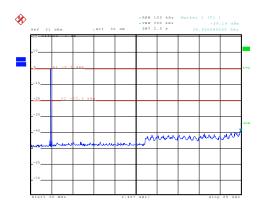
Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04					
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.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



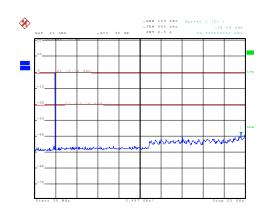
Test plot as follows:

Lowest channel



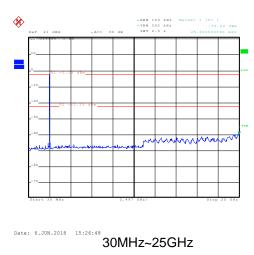
Date: 6.JUN.2018 15:41:22 30MHz~25GHz

Middle channel



Date: 6.JUN.2018 15:29:51 30MHz~25GHz

Highest channel

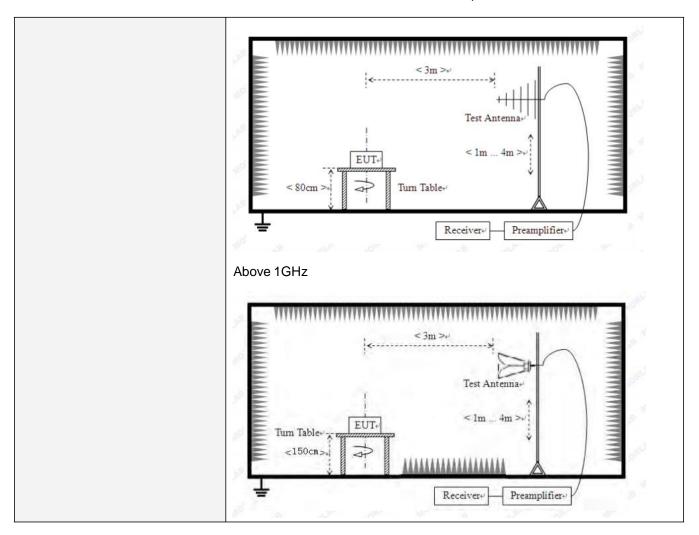




Radiated Emission Method

Test Requirement:	st Requirement: FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency								
	9KHz-150KHz		uasi-peak	2001		600H			
	150KHz-30MHz		uasi-peak	9KF		30KH	· ·		
	30MHz-1GHz	QI	uasi-peak	100K		300KF			
	Above 1GHz		Peak	1MF		3MHz			
			Peak	1MF	ΙZ	10Hz	<u> </u>		
Limit:	Frequency		Limit (u\	//m)	V	'alue	Measurement Distance		
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m		
	0.490MHz-1.705M	Hz	24000/F(F(KHz)		QP	300m		
	1.705MHz-30MH	Z	30		QP		30m		
	30MHz-88MHz		100		QP				
	88MHz-216MHz	<u> </u>	150		QP				
	216MHz-960MH	Z	200		QP		3m		
	960MHz-1GHz		500 500		QP Average		OIII		
	Above 1GHz								
	7,5070 10112		5000) Peak		Peak			
Test setup:	Below 30MHz Turntable Ground Plane Ground Plane								
	Below 1GHz								







Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. 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.
	4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



■ Below 1GHz

Horizontal:

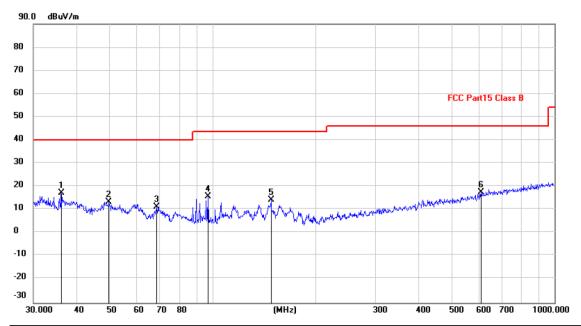
EUT: H2 Polarziation: Horizontal

Model: H2i5202NN Power Source: AC120V/60Hz

Mode: BLE mode Test by: Bill

Temp./Hum.(%H): 26°C/60%RH

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1	*	36.1272	50.36	-33.22	17.14	40.00	-22.86	QP
2		49.8814	47.61	-34.17	13.44	40.00	-26.56	QP
3		68.8721	48.54	-37.23	11.31	40.00	-28.69	QP
4		97.1148	54.42	-38.74	15.68	43.50	-27.82	QP
5		148.4410	49.11	-34.72	14.39	43.50	-29.11	QP
6		609.9217	45.41	-27.89	17.52	46.00	-28.48	QP



Vertical:

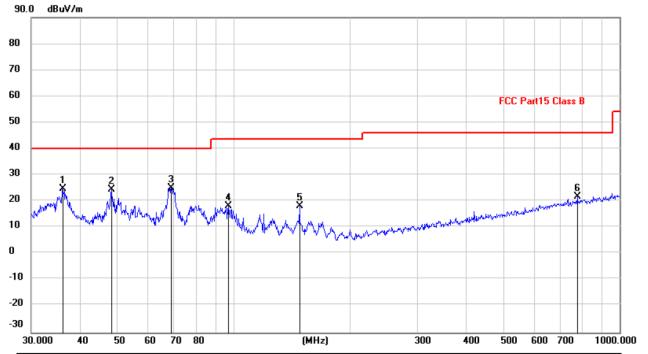
EUT: H2 Polarziation: Vertical

Model: H2i5202NN Power Source: AC120V/60Hz

Mode: BLE mode Test by: Bill

Temp./Hum.(%H): 26 °C/60%RH

Note:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1		36.1272	57.98	-33.22	24.76	40.00	-15.24	QP
2		48.3318	58.47	-34.06	24.41	40.00	-15.59	QP
3	*	69.1140	62.34	-37.27	25.07	40.00	-14.93	QP
4		97.1148	56.79	-38.74	18.05	43.50	-25.45	QP
5		148.4410	53.02	-34.72	18.30	43.50	-25.20	QP
6		776.8777	46.94	-25.22	21.72	46.00	-24.28	QP



-22.69

-23.33

Horizontal

Horizontal

Horizontal

Horizontal

■ Above 1GHz

Test channel:

Peak value:			 			
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	54.32	-7.43	46.89	74.00	-27.11	Vertical
7206.00	52.48	-2.42	50.06	74.00	-23.94	Vertical
9608.00	53.01	-2.38	50.63	74.00	-23.37	Vertical
12010.00	*			74.00		Vertical
14412.00	*			74.00		Vertical
4804.00	53.87	-7.43	46.44	74.00	-27.56	Horizontal

Lowest

51.31

50.67

74.00

74.00

74.00

74.00

Average value:

7206.00

9608.00

12010.00

14412.00

53.73

53.05

Average val	ue.					
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	44.17	-7.43	36.74	54.00	-17.26	Vertical
7206.00	44.69	-2.42	42.27	54.00	-11.73	Vertical
9608.00	42.51	-2.38	40.13	54.00	-13.87	Vertical
12010.00	*			54.00		Vertical
14412.00	*			54.00		Vertical
4804.00	44.51	-7.43	37.08	54.00	-16.92	Horizontal
7206.00	43.86	-2.42	41.44	54.00	-12.56	Horizontal
9608.00	44.03	-2.38	41.65	54.00	-12.35	Horizontal
12010.00	*			54.00		Horizontal
14412.00	*			54.00		Horizontal

Remark:

- 1. Final Level=Receiver Read level +Correct factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

-2.42

-2.38

3. Correct factor = Antenna Factor + Cable Loss - Preamplifier Factor



Test channel:	Middle
Dealcratus	

Peak value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	53.73	-7.49	46.24	74.00	-27.76	Vertical
7326.00	52.84	-2.40	50.44	74.00	-23.56	Vertical
9768.00	54.06	-2.38	51.68	74.00	-22.32	Vertical
12210.00	*			74.00		Vertical
14652.00	*			74.00		Vertical
4884.00	53.57	-7.49	46.08	74.00	-27.92	Horizontal
7326.00	54.22	-2.40	51.82	74.00	-22.18	Horizontal
9768.00	53.49	-2.38	51.11	74.00	-22.89	Horizontal
12210.00	*			74.00		Horizontal
14652.00	*			74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	45.17	-7.49	37.68	54.00	-16.32	Vertical
7326.00	44.32	-2.40	41.92	54.00	-12.08	Vertical
9768.00	45.06	-2.38	42.68	54.00	-11.32	Vertical
12210.00	*		54.00			Vertical
14652.00	*			54.00		Vertical
4884.00	45.25	-7.49 37.76 54		54.00	-16.24	Horizontal
7326.00	46.43	-2.40	44.03	54.00	-9.97	Horizontal
9768.00	44.38	-2.38	42.00	54.00	-12.00	Horizontal
12210.00	*			54.00		Horizontal
14652.00	*			54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level +Correct factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor



Test channel: Highest						
Peak value:						
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	53.46	-7.47	45.99	74.00	-28.01	Vertical
7440.00	52.81	-2.45	50.36	74.00	-23.64	Vertical
9920.00	54.39	-2.37	52.02	74.00	-21.98	Vertical
12400.00	*			74.00		Vertical
14880.00	*			74.00		Vertical
4960.00	53.41	-7.47	45.94	74.00	-28.06	Horizontal
7440.00	53.53	-2.45	51.08	74.00	-22.92	Horizontal
9920.00	53.85	-2.37	51.48	74.00	-22.52	Horizontal
12400.00	*			74.00		Horizontal
14880.00	*			74.00		Horizontal
Average valu	ie:	1	1	T	1	
Frequency (MHz)	Read Level (dBuV)	Correct factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	45.27	-7.47	37.80	54.00	-16.20	Vertical
7440.00	44.09	-2.45	41.64	54.00	-12.36	Vertical
9920.00	43.34	-2.37	40.97	54.00	-13.03	Vertical
12400.00	*			54.00		Vertical
14880.00	*			54.00		Vertical
4960.00	43.61	-7.47	36.14	54.00	-17.86	Horizontal
7440.00	44.43	-2.45	41.98	54.00	-12.02	Horizontal
9920.00	43.72	-2.37	41.35	54.00	-12.65	Horizontal

54.00

54.00

Remark:

12400.00

14880.00

1. Final Level=Receiver Read level + Correct factor

*

- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor

Horizontal

Horizontal



8 Test Setup Photo

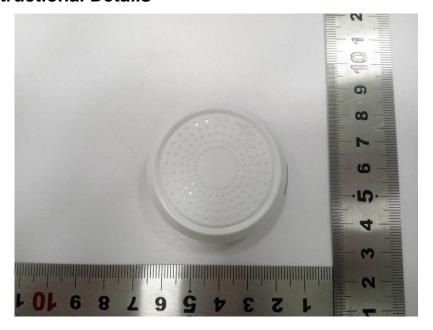
Radiated Emission

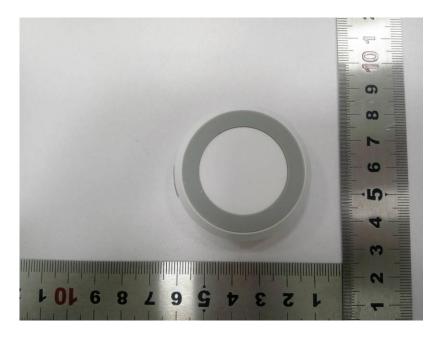






9 EUT Constructional Details



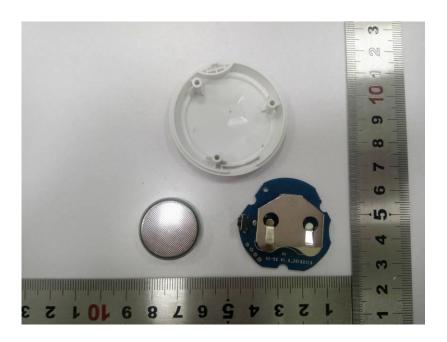


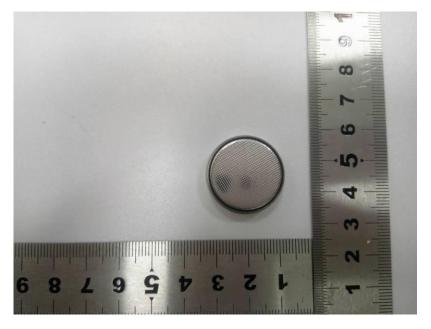






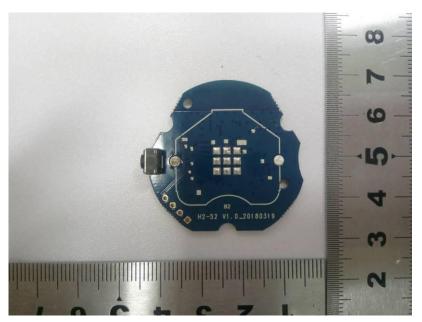




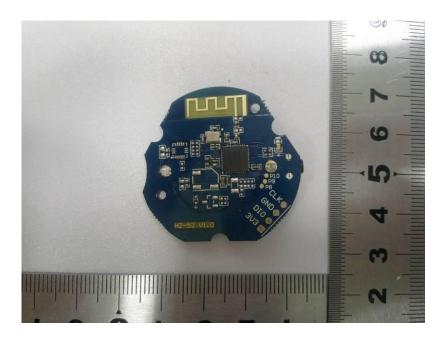












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