TEST REPORT

For WiFi-2.4GHz Band

Report No:	CHTEW23110071	Report Verification:	
Project No:	SHT2306080101EW		
FCC ID::	2A8OE-F8926-GW-02		ReportNo. Childw23(1007)
Applicant's name:	Xiamen Four-Faith Comm	unication Technolog	gy Co., Ltd.
Address:	11th Floor, A-06 Area, No.37 Street, Jimei, Xiamen, Fujian,		
Product Name	LoRaWAN Gateway		
Trade Mark:	Four-Faith		
Model No	F8926-GW-02	1 7	
Listed Model(s)	CITC		
Standard:	FCC CFR Title 47 Part 15 Subpart C § 15.247		
Date of receipt of test sample	Aug. 07, 2023		
Date of testing	Aug. 14, 2023- Nov. 24, 2023		
Date of issue	Nov. 27, 2023		
Result	PASS		
Compiled by (Position+Printed name+Signature):	File administrator Caspar Cl	nen as	Dr Chen
Supervised by		Car	Dar Chen
(Position+Printed name+Signature):	Project Engineer Caspar Ch	ien /	
Approved by		1	Y.
(Position+Printed name+Signature):	RF Manager Xu yang	du	, long
Testing Laboratory Name:	Shenzhen Huatongwei Inte	ernational Inspectio	n Co., Ltd.
Address:	1/F, Bldg 3, Hongfa Hi-tech Tianliao, Gongming, Shenzh		ru Road,

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC CFR Title 47 Part 15 Subpart C § 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2020: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2023-11-27	Original

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Caspar Chen
5.2	AC Conducted Emission	15.207	PASS	Caspar Chen
5.3	Peak Output Power	15.247(b)(3)	PASS	Caspar Chen
5.4	Power Spectral Density	15.247(e)	PASS	Caspar Chen
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Caspar Chen
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Caspar Chen
5.7	Duty cycle	-	PASS ^{*1}	Caspar Chen
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Caspar Chen
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang

Note:

⁻ The measurement uncertainty is not included in the test result.

 ^{*1:} No requirement on standard, only report these test data.

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3. **SUMMARY**

3.1. Client Information

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.	
Address:	11th Floor, A-06 Area, No. 370, Chengyi Street, Jimei, Xiamen, Fujian, China.	
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.	
Address:	11th Floor,A-06 Area,No.370,Chengyi Street,Jimei,Xiamen,Fujian,China.	

3.2. Product Description

Main unit information:		
Product Name:	LoRaWAN Gateway	
Trade Mark:	Four-Faith	
Model No.:	F8926-GW-02	
Listed Model(s):	-	
Power supply:	DC 12V from Adapter	
Hardware version:	V 1.0.0.2	
Software version:	F8926GW-V2-IOTGW-32M-STD-VPN-20230313.flash	
Accessory unit information:		
Adapter information:	MODEL: KL-AD3060VA INPUT: 100-240V~50/60Hz 0.7A OUTPUT: DC 12V, 1.5A	

3.3. Radio Specification Description

Support type:	⊠ 802.11b	⊠ 802.11g	⊠ 802.11n
Support bandwidth:	⊠ 20MHz	⊠ 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
Modulation.	802.11g/n:	BPSK, QPSK, 16QAM,	64QAM
Operation fraguency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
Operation frequency:	802.11n(HT40)	2422MHz~2452MHz	
Channel number:	802.11b/g/n(HT20):	11	
Charmer number.	802.11n(HT40)	7	
Channel separation:	5MHz		
Antenna technology:	⊠ SISO	☐ MIMO	
Antenna type:	Stick Antenna		
Antenna gain:	2.9dBi		

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
Qualifications	Type Accreditation Number		
Qualifications	FCC 762235		

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4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/g	g/n(HT20)	802.11r	n(HT40)
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	· :	· :	· :
06	2437	06	2437
· :	· :	· :	. ::
10	2457	08	2447
11	2462	09	2452

4.2. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

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4.3. Test sample information

Test item	HTW sample no.	
RF Conducted test items	Please refer to the description in the appendix report	
RF Radiated test items	YPHT23060801007	
EMI test items	YPHT23060801008	

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.5. Testing environmental condition

Туре	Requirement	Actual		
Temperature:	15~35°C	25°C		
Relative Humidity:	25~75%	50%		
Air Pressure:	860~1060mbar	1000mbar		

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4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty				
1	AC Conducted Emission	3.21dB				
2	Peak Output Power	1.07				
3	Power Spectral Density	1.07				
4	6dB Bandwidth	0.002%				
5	99% Occupied Bandwidth	0.002%				
6	Duty cycle	-				
7	Conducted Band Edge and Spurious Emission	1.68dB				
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz				
- O	radiated Band Edge Emission	5.10dB for above 1GHz				
9	Redicted Spurious Emission	4.54dB for 30MHz-1GHz				
9	Radiated Spurious Emission	5.10dB for above 1GHz				

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipment Used during the Test

•	RF Conducted	test item					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Model No. Serial No.		Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2023/08/22	2024/08/21
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2023/08/22	2024/08/21
•	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2023/05/23	2024/05/22
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	quipment No. Model No.		Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2023/8/22	2024/8/21
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2023/8/18	2024/8/17
•	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2023/8/18	2024/8/17
•	ISN	FCC	HTWE0148	FCC-TLISN-T2- 02	20371	2023/8/18	2024/8/17
•	ISN	FCC	HTWE0150	FCC-TLISN-T8- 02	20375	2023/8/18	2024/8/17
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

•	Radiated Em	ission – 9kHz-	-30MHz				
Used	Test Equipment	Manufacturer	Equipment No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
•	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/4/6	2024/4/5
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

•	Radiated Em	ission - 30MHz	z~1GHz				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
•	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
•	Ultra-Broadband Antenna	SCHWARZBEC K	HTWE0119	VULB9163	546	2023/2/22	2026/2/21
•	Pre-Amplifer	SCHWARZBEC K	HTWE0295	BBV 9742	/	2023/5/25	2024/5/24
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

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•	Radiated em	ission-Above	1GHz				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/8/22	2024/8/21
•	Horn Antenna	SCHWARZBE CK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
•	Horn Antenna	SCHWARZBE CK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
•	Broadband Pre- amplifier	SCHWARZBE CK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
•	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble 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.

TEST RESULT

The antenna type is a Stick Antenna, please refer to the below antenna photo.



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5.2. AC Conducted Emission

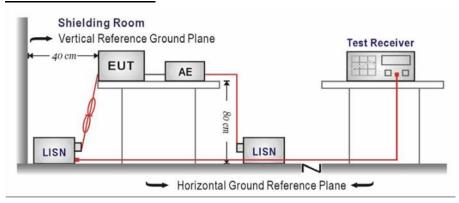
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

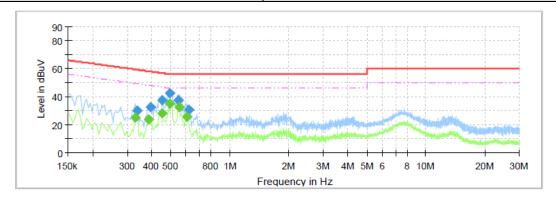
Refer to the clause 4.2

TEST RESULT

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Test Line:

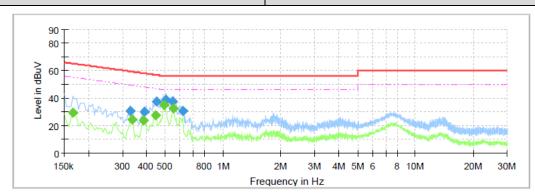
L



Final Result

Fillal_INES	uit					
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)
0.3315		25.22	49.41	24.20	L1	10.0
0.3355	30.11	-	59.31	29.20	L1	10.0
0.3875		23.82	48.12	24.29	L1	10.0
0.3955	32.79		57.95	25.15	L1	10.0
0.4515		28.05	46.85	18.80	L1	10.0
0.4515	37.42	-	56.85	19.43	L1	10.0
0.4955	42.47	-	56.08	13.61	L1	10.0
0.4955		34.72	46.08	11.36	L1	10.0
0.5475	37.55		56.00	18.45	L1	10.0
0.5515		32.48	46.00	13.52	L1	10.0
0.6075		25.59	46.00	20.41	L1	10.0
0.6165	30.47		56.00	25.53	L1	10.0

Test Line: N



Final Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)
0.1660		29.19	55.16	25.96	N	10.0
0.3315	30.70	-	59.41	28.71	N	10.0
0.3355		24.32	49.31	24.99	N	10.0
0.3875		23.68	48.12	24.44	N	10.0
0.3915	30.23		58.03	27.80	N	10.0
0.4475		27.61	46.92	19.31	N	10.0
0.4515	37.40		56.85	19.45	N	10.0
0.4955		34.81	46.08	11.27	N	10.0
0.5075	38.84		56.00	17.16	N	10.0
0.5475	37.37	-	56.00	18.63	N	10.0
0.5515		32.79	46.00	13.21	N	10.0
0.6195	30.67		56.00	25.33	N	10.0

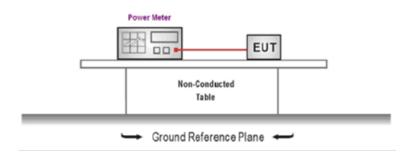
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5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

TEST DATA

Refer to the appendix report

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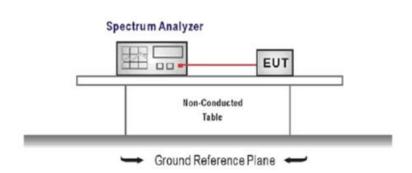
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$, VBW $\ge 3 \times \text{RBW}$

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

TEST DATA

Refer to the appendix report

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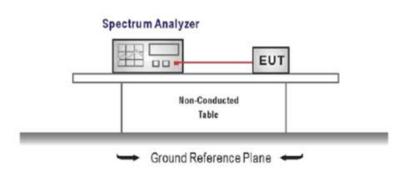
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

TEST DATA

Refer to the appendix report

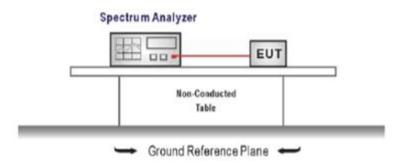
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5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).

Center Frequency = channel center frequency

Span≥1.5 x OBW

RBW = 1%~5%OBW

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.2

TEST RESULT

TEST DATA

Refer to the appendix report

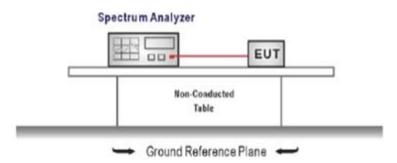
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5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an 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. Use the following spectrum analyzer settings:
 - Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW
 - Sweep=as necessary to capture the entire dwell time,
 - Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

Refer to the appendix report

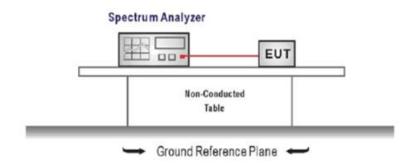
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5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):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 CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW \geq 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW \geq 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.2

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TEST RESULT

oxedow Passed oxedow Not Applicable

TEST DATA

Refer to the appendix report

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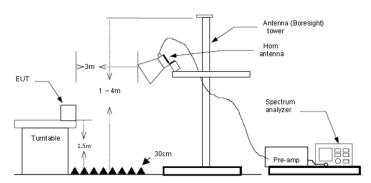
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

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Туре		802	.11b	Test cl	nannel	CHO)1	Po	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2310.00	40.50 41.33	27.86 27.54	4.01 4.31	37.55 37.55	20.00	54.82 55.63	74.00	-19.1	
	Mark	Frequence	/ Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
	1	MHZ 2310.00	dBuV/m 32.39	dB 27.86	dB 4.01	dB 37.55	dB 20.00	dBuV/m 46.71	dBuV/m	limit -7.29	
_	2	2390.01	33.20	27.54	4.31	37.55	20.00	47.50		-6.50	
Туре		802	.11b	Test c	nannel	CHO	01	Po	olarity		Vertical
	Mark	Frequency MHz	/ Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Ove	
	1 2	2310.00 2390.01	41.61 41.37	27.86 27.54	4.01 4.31	37.55 37.55	20.00 20.00		74.00 74.00		07 Peak 33 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit (over	Remark
	1	MHZ 2310.00	dBuV/m 32.34	dB 27.86	dB 4.01	dB	dB 20.00	dBuV/m 46.66	dBuV/m	limit -7.34	Average
	2	2390.01	32.27	27.54	4.31	37.55	20.00	46.57	54.00	-7.43	Average

Туре		802.1	1b	Test ch	nannel	CH1	1	Po	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Ove	
	1 2	2483.49 2500.00	39.74 38.91	27.33 27.30	4.18 4.19	37.64 37.67	20.00 20.00	53.61	74.00	-20.	9 Peak 27 Peak
	Mark	Frequency MHZ	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	32.82 32.82	27.33 27.30	4.18 4.19	37.64 37.67	20.00	46.69 46.64		-7.31 -7.36	
Туре		802.1	1b	Test ch	nannel	CH1	1	Po	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	38.20 37.89	27.33 27.30	4.18 4.19	37.64 37.67	20.00 20.00	52.07 51.71	74.00 74.00	-21.93 -22.29	Peak Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	32.03 32.25	27.33 27.30	4.18 4.19	37.64 37.67	20.00	45.90 46.07		-8.10 -7.93	_

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Туре		802	11g	Test ch	nannel	CHC)1	Pol	larity		Horizontal
	Mark	Frequenc	/ Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2310.00	41.50	27.86 27.54	27.86 4.01		20.00 55.82		74.00 -18.		.8 Peak
	Mark Frequency		_			Preamp	Preamp Aux		Limit	0ver	Remark
	1 2310.00 2 2390.01		dBuV/m 29.41 30.77	dB 27.86 27.54	dB 4.01 4.31	dB 37.55 37.55	dB 20.00 20.00	dBuV/m 43.73 45.07	dBuV/m 54.00 54.00	limit -10.27 -8.93	Average
			30.77	27134	7.51	CH01		43.07	34.00	-0.55	Average
Type		802	11g	Test ch	nannel	CHC)1	Pol	larity		Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
Туре	1	Frequency MHz 2310.00	Reading dBuV/m 40.88	Antenna dB 27.86	Cable dB 4.01	Preamp dB 37.55	Aux dB 20.00	Level dBuV/m 55.20	Limit dBuV/m 74.00	limit -18.86	Remark
Туре	1 2	Frequency MHZ 2310.00 2390.01	Reading dBuV/m 40.88 41.68	Antenna dB 27.86 27.54	Cable dB 4.01 4.31	Preamp dB 37.55 37.55	Aux dB 20.00 20.00	Level dBuV/m 55.20 55.98	Limit dBuV/m 74.00 74.00	limit -18.86 -18.02	Remark : :) Peak 2 Peak
Туре	1	Frequency MHz 2310.00	Reading dBuV/m 40.88 41.68	Antenna dB 27.86	Cable dB 4.01	Preamp dB 37.55	Aux dB 20.00 20.00 Aux dB	Level dBuV/m 55.20	Limit dBuV/m 74.00 74.00 Limit dBuV/m	limit -18.86	Remark Peak Peak Remark

Туре		802.1	1g	Test cl	nannel	CH1	1	Po	larity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHZ	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49		27.33	4.18	37.64	20.00				
	2	2500.00	39.70	27.30	4.19	37.67	20.00	53.52	74.00	-20.48	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHZ	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	30.64	27.33	4.18	37.64	20.00	44.51	54.00	-9.49	Average
	2	2500.00	30.03	27.30	4.19	37.67	20.00	43.85	54.00	-10.15	Average
Туре		802.1	1g	Test cl	nannel	CH1	1	Po	larity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHZ	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	39.87	27.33	4.18	37.64	20.00	53.74	74.00	-20.26	Peak
	2	2500.00	41.56	27.30	4.19	37.67	20.00	55.38	74.00	-18.62	Peak
	Mank		Dooding		Cable	Danzen	Aust	Lovel		0	Downels
		Frequency	Reading	Antenna	Cable	Preamp	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	Mark	MHZ	dBuV/m	dB	dB	dB	uв	ubuv/III	ubuv/III	1111111	
	1		dBuV/m 29.21	dB 27.33	ав 4.18	ав 37.64		43.08		-10.92	Average

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Туре		802	.11n(HT20)	Test cl	nannel	CH0	1	Po	larity		Horizontal
	Mark	Frequency	_	Antenna	Cable	Preamp		Level	Limit	0ver	
	1	MHZ 2310.00	dBuV/m 40.85	dB 27.86	dB 4.01	dB 37.55	dB 20.00	dBuV/m 55.17	dBuV/m 74.00		it 33 Peak
	2 2390.01		41.49	27.54 4.31		37.55	20.00				1 Peak
	Mark Frequency		Reading dBuV/m	Antenna Cable dB dB		Preamp dB			Limit dBuV/m	Over limit	Remark
	1 2310.00		29.29	27.86	4.01	37.55	5 20.00 4		54.00	-10.39	Average
	2 2390.01 ype 802.1		31.04	27.54	4.31	37.55	20.00	45.34	54.00	-8.66	Average
Туре			.11n(HT20)	HT20) Test cl		CH01		Polarity			Vertical
	Mark	Frequency MHZ	/ Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2310.00	40.89	27.86	4.01	37.55	20.00	55.21			9 Peak
	2	2390.01	41.26	27.54	4.31	37.55	20.00	55.56	74.00	-18.4	4 Peak
	Mark	Frequency MHZ	/ Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	29.39	27.86	4.01	37.55	20.00	43.71	54.00	-10.29	Average
	_										

Туре			802.1	1n(HT20)	Test ch	nannel	CH1	1	Po	larity		Horizontal
	Mark		quency	Reading	Antenna	Cable	Preamp		Level	Limit	Ove	
		MHZ		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1			41.98	27.33	4.18	37.64	20.00			15 Peak	
2		2506	0.00	40.66	27.30	4.19	37.67	20.00	54.48	/4.00	-19.	52 Peak
	Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHZ		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1		3.49	30.66	27.33	4.18	37.64	20.00	44.53	54.00	-9.47	Average
	2	250	0.00	29.91	27.30	4.19	37.67	20.00	43.73	54.00	-10.27	Average
Туре			802.1	1n(HT20)	Test ch	annel	CH1	1	Po	larity		Vertical
	Mark		luency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Ove	
		MHZ		dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1	2483		40.30		4.18	37.64	20.00	54.17			83 Peak
	2	2500	.00	41.08	27.30	4.19	37.67	20.00	54.90	74.00	-19.	10 Peak
	Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	HOT K	MHZ	quency	dBuV/m	dB	dB	dB	dB	dBuV/m		limi	
	1		3.49	29.43	27.33	4.18	37.64		43.30			
	2		9.00	29.34	27.30	4.19	37.67	20.00	43.16		-10.8	_

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Туре			802.1	1n(HT40)	Test cl	nannel	CHO	03	F	olarity		Horizontal
	Mark	Fred	quency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Preamp Aux dB dB		Limit dBuV/m	Over limi	
	1 2			41.08 44.72	27.86 27.54	4.01 4.31	37.55 37.55	20.00 20.00		74.00 74.00		60 Peak 98 Peak
	Mark Frequency		Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		Over limit	Remark	
	1 2310.00 2 2389.99		29.77 32.41	27.86 27.54	4.01 4.31	37.55 37.55	20.00	44.09 46.71		-9.91 -7.29	Average Average	
Туре	802.1		1n(HT40)	Test channel		CHO	03	F	olarity		Vertical	
	Mark Frequency		Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/r	Limit n dBuV/m	Ove lim		
	1 2	2310 2389		41.60 40.82	27.86 27.54	4.01 4.31	37.55 37.55	20.00 20.00		74.00 74.00		08 Peak 88 Peak
	Mark	Frequ MHZ	uency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310. 2389.		29.84 30.10	27.86 27.54	4.01 4.31	37.55 37.55	20.00 20.00	44.4		-9.84 -9.60	

Туре			802.1	1n(HT40)	Test cl	nannel	CHO)9	Р	olarity		Horizontal
	Mark	Fred	quency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1 2		3.50 9.00	40.83 40.87	27.33 27.30	4.18 4.19	37.64 37.67	20.00 20.00	54.70 54.69			0 Peak 1 Peak
	Mark	Freq MHz	quency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483 2500		31.53 30.35	27.33 27.30	4.18 4.19	37.64 37.67	20.00 20.00	45.46 44.17		-8.60 -9.83	
Type			802.1	1n(HT40)	Test cl	nannel	CHO)9	Р	olarity		Vertical
	Mark	Fred	quency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Ove lim	
	1 2	2483 2506	3.50 3.00	40.72 40.55	27.33 27.30	4.18 4.19	37.64 37.67	20.00 20.00	54.59 54.37	74.00 74.00		41 Peak 63 Peak
	Mark	Freq MHZ	luency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483 2500		30.43 29.87	27.33 27.30	4.18 4.19	37.64 37.67		44.30 43.69		-9.70 -10.31	

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

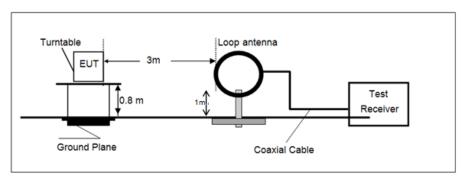
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3) = Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3) = Limit dBuV/m @30m + 40.

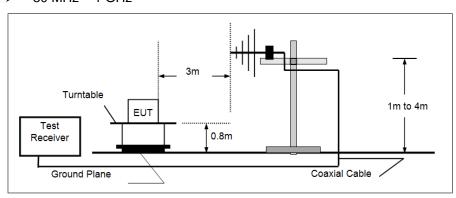
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

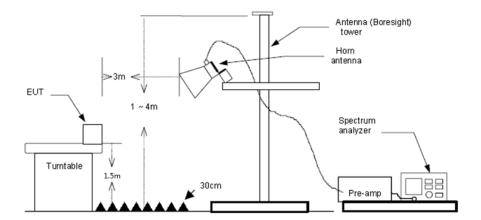


> 30 MHz ~ 1 GHz



Above 1 GHz

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TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

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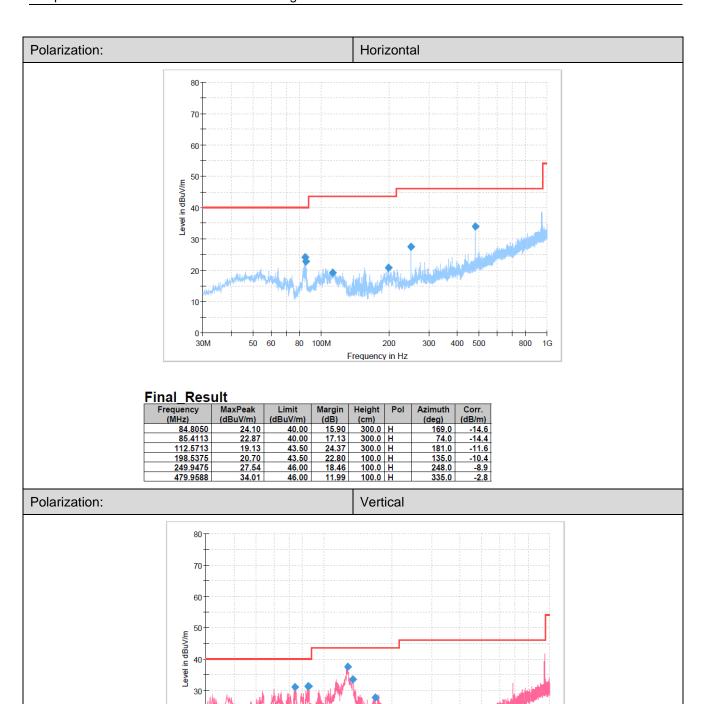
For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

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H	ınal	I_K	kes	ult	

10

0 30M

Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
74.4988	30.97	40.00	9.03	100.0	٧	11.0	-14.9
84.6838	31.26	40.00	8.74	100.0	٧	130.0	-14.6
85.4113	31.28	40.00	8.72	100.0	V	257.0	-14.4
127.3638	37.59	43.50	5.91	100.0	٧	35.0	-13.7
134.2750	33.60	43.50	9.90	100.0	٧	138.0	-14.2
168.8313	27.80	43.50	15.70	100.0	٧	0.0	-13.4

80 100M

50 60

200

Frequency in Hz

400 500

800

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For 1 GHz ~ 25 GHz

Туре		802.11b		Test channe	l	CH01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/r	The state of the s	Cabl	e Preamp dB	Level dBuV/m		Over	
	1	2995.54	54.52	28.50	4.75		50.39	74.00	-23.61	Peak
	2	4983.99	43.08	31.34	6.08		44.69	74.00	-29.31	Peak
	3	7820.82	40.83		7.83		51.15	74.00	-22.85	
	4	9809.40	34.17	39.32	9.50	33.53	49.46	74.00	-24.54	Peak
Туре		802.11b		Test channe	l	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m		Over limit	Remark
	1	2987.92	52.39	28.50	4.77	37.40	48.26	74.00	-25.74	
	2	4821.76	47.35		6.00		48.75	74.00	-25.25	Peak
	3	4983.99	48.94		6.08	35.81	50.55	74.00	-23.45	Peak
	4	9784.47	34.20	39.30	9.48	33.44	49.54	74.00	-24.46	Peak
Туре		802.11b		Test channe	l	CH06		Polarity		Horizontal
	Mark	Frequency	Readin	g Antenna	Cabl	e Preamp) Leve	l Limit	Ove	r Remark
		MHZ	dBuV/		dB	dB	dBuV/			
	1	2987.92	46.98	28.50	4.77		42.85	74.00	-31.1	
	2	4858.72	46.91	31.20	6.33		48.37	74.00	-25.6	
	3	6833.77	39.87	34.34	7.27		47.26	74.00	-26.7	
	4	9784.47	35.49	39.30	9.48		50.83	74.00	-23.1	
Туре		802.11b		Test channe	ı	CH06		Polarity		Vertical
71 -										
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Level dBuV/m		Over limit	
	1	2995.54	52.65	28.50	4.75		48.52	74.00	-25.48	
	2	3983.75	46.60	29.77	5.60		45.06	74.00	-28.94	
	3	4858.72	42.34	31.20	6.33	36.07	43.80	74.00	-30.20	
	4	4996.69	47.67	31.39	6.09	35.75	49.40	74.00	-24.60	
Туре		802.11b		Test channe	I	CH11		Polarity		Horizontal
	Mark	Frequency	Reading			Preamp			Over	Remark
		MHZ	dBuV/m	n dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2995.54	53.78	28.50	4.75		49.65	74.00	-24.35	Peak
		6851.19	39.98	34.40	7.29	34.05	47.62	74.00	-26.38	Peak
	3	7820.82	40.22	36.28	7.83	33.79	50.54	74.00	-23.46	Peak
	4	9562.85	36.89	38.95	9.34	34.60	50.58	74.00	-23.42	Peak
Туре		802.11b		Test channe	l	CH11		Polarity		Vertical
				·						
	Mark	Frequency	Reading	•	Cable				Over	
		MHZ	dBuV/n		dB	dB	dBuV/m		limit	
	1	3003.17	52.37	28.51	4.72	37.37	48.23	74.00	-25.77	
	2	3993.90	47.28	29.79	5.62	36.97	45.72	74.00	-28.28	
	3	4267.18	48.76	30.07	5.77		48.06	74.00	-25.94	
	4	4996.69	48.93	31.39	6.09	35.75	50.66	74.00	-23.34	Peak

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Туре		802.11g		Test channe		CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/r		Cable dB	e Preamp dB	Leve dBuV/		Ove limi		
	1	2987.92	47.63	28.50	4.77		43.50	74.00	-30.5	0 Peak	
	2	4821.76	44.38	31.26	6.00	35.86	45.78	74.00	-28.2	2 Peak	
	3	6974.36	39.77	35.00	7.34	34.15	47.96	74.00	-26.0	4 Peak	
	4	9759.59	34.45	39.30	9.46	33.66	49.55	74.00	-24.4	5 Peak	
Туре		802.11g		Test channe		CH01		Polarity		Vertical	
	Manle									n Domanic	
	Mark	Frequency			Cabl				Ove		
		MHZ	dBuV/i		dB	dB	dBuV,	_			
	1	2995.54	54.63	28.50	4.75		50.50	74.00	-23.5		
	2		49.44	30.07	5.77			74.00	-25.2		
	3	4821.76	49.90	31.26	6.00		51.30	74.00	-22.7		
	4	7245.81	41.70	36.00	7.61	34.39	50.92	74.00	-23.0	8 Peak	
Туре		802.11g		Test channe		CH06		Polarity		Horizontal	
	Mark	Frequency	Reading		Cable				Ove		
		MHZ	dBuV/m		dB	dB	dBuV/		limi		
	1	2987.92	47.96	28.50	4.77		43.83	74.00	-30.1		
	2	4871.10	47.96		6.30		49.42	74.00	-24.5		
	3	6956.63	39.18		7.35	34.16	47.30	74.00	-26.7		
	4	9809.40	33.73	39.32	9.50	33.53	49.02	74.00	-24.9	8 Peak	
Туре		802.11g		Test channe		CH06		Polarity		Vertical	
	Mark	Frequency MHZ	Reading dBuV/m		Cable	Preamp dB	Leve dBuV/		Over		
	1	2987.92	53.55		4.77		49.42	74.00	-24.58		
	2	4871.10	49.58		6.30		51.04		-22.96		
	3		41.44		7.34		49.63		-24.37		
	4	7301.36	40.99	36.10	7.76	34.26	50.59		-23.41		
_	7.50		40.55				30.33	1.1.1.1.1	-23143		
Туре		802.11g		Test channe		CH11		Polarity		Horizontal	
	Mark	Frequency	Peading	Antenna	Cable	Preamp	Leve	l Limit	Ove	r Remark	
	PIULK	MHZ	dBuV/m		dB		dBuV/		limi		
	1	2995.54	46.34		4.75		42.21	74.00	-31.7		
	2	3993.90	45.52	29.79	5.62	36.97	43.96	74.00	-30.0		
	3	4933.50	49.09			35.79					
	4	9809.40	34.17	39.32		33.53	49.46			4 Peak	
Туре		802.11g		Test channe		CH11		Polarity		Vertical	
	Mark	Frequency	Reading	g Antenna	Cable	e Preamp	Leve	l Limit	Over	r Remark	
		MHZ	dBuV/r		dB	dB	dBuV/		limit		
		2995.54	53.55	28.50	4.75			74.00	-24.58		
	1	2333.34	55.55	20.50	7./2		72.72	/ 1100		J I CUIC	
	2	4996.69	46.78	31.39	6.09	35.75	48.51	74.00	-25.49	9 Peak	
		4996.69 6974.36		31.39	6.09	35.75 34.15	48.51 50.77	74.00 74.00	-25.49 -23.2		

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Туре		802.11n(H	HT20)	Test channel		CH01		Polarity		Horizontal	
	Mark	Frequency	Readin		Cabl				Over		
	211	MHZ	dBuV/		dB	dB	dBuV/		limit		
	1	2995.54	49.79	28.50	4.75		45.66	74.00	-28.34		
	2	4821.76	48.19	31.26	6.00		49.59	74.00	-24.41		
	3	6992.14	39.17	35.07	7.34		47.36	74.00	-26.64		
	4	10860.83	34.87	40.42	9.93	35.94	49.28	74.00	-24.72	2 Peak	
Туре		802.11n(H	HT20)	Test channel		CH01		Polarity		Vertical	
										D	
	Mark	Frequency	Reading		Cable		Leve]		Over		
		MHZ	dBuV/n		dB	dB	dBuV/r		limit		
	1	2987.92	53.35	28.50	4.77 6.00	37.40	49.22	74.00	-24.78 -23.79		
	2	4821.76	48.81 41.82	31.26 35.07	7.34	35.86 34.22	50.21 50.01	74.00 74.00	-23.79		
	4	6992.14			9.50	34.73					
	4	9859.47	35.66	39.38	9.50	34./3	49.81	74.00	-24.19	PERK	
Type		802.11n(H	HT20)	Test channel		CH06		Polarity		Horizontal	
	Mark	Frequency	Reading	Antenna	Cabl	e Preamp	Leve	l Limit	Ove	r Remark	
		MHZ	dBuV/m	ı dB	dB	dB	dBuV/	m dBuV/m	limi	t	
	1	2987.92	49.11	28.50	4.77	37.40	44.98	74.00	-29.0	2 Peak	
	2	4883.52	47.21	31.20	6.21	35.97	48.65	74.00	-25.3	5 Peak	
	3	7009.96	39.70	35.14	7.35	34.24	47.95	74.00	-26.0	5 Peak	
	4	9784.47	33.77	39.30	9.48	33.44	49.11	74.00	-24.8	9 Peak	
Туре		802.11n(H	HT20)	Test channel		CH06		Polarity		Vertical	
Туре											
Туре	Mark	Frequency	Reading	g Antenna	Cabl	e Preamp		l Limit	Ove	r Remark	
Type		Frequency MHz	Reading dBuV/r	g Antenna n dB	Cabl	e Preamp dB	dBuV/	l Limit m dBuV/m	limi	r Remark t	
Type	1	Frequency MHz 2987.92	Reading dBuV/r 53.71	g Antenna n dB 28.50	Cabl dB 4.77	e Preamp dB 37.40	dBuV/ 49.58	l Limit m dBuV/m 74.00	limi:	r Remark t 2 Peak	
Type	1 2	Frequency MHZ 2987.92 3993.90	Reading dBuV/m 53.71 48.27	Antenna n dB 28.50 29.79	Cabl dB 4.77 5.62	e Preamp dB 37.40 36.97	dBuV/ 49.58 46.71	l Limit m dBuV/m 74.00 74.00	limi: -24.4: -27.2	r Remark t 2 Peak 9 Peak	
Type	1 2 3	Frequency MHZ 2987.92 3993.90 4883.52	Reading dBuV/r 53.71 48.27 49.47	Antenna n dB 28.50 29.79 31.20	Cabl dB 4.77 5.62 6.21	e Preamp dB 37.40 36.97 35.97	dBuV/ 49.58 46.71 50.91	l Limit m dBuV/m 74.00 74.00 74.00	limi: -24.4 -27.2 -23.0	r Remark t 2 Peak 9 Peak 9 Peak	
Type	1 2	Frequency MHZ 2987.92 3993.90	Reading dBuV/m 53.71 48.27	Antenna n dB 28.50 29.79	Cabl dB 4.77 5.62	e Preamp dB 37.40 36.97 35.97	dBuV/ 49.58 46.71	l Limit m dBuV/m 74.00 74.00	limi: -24.4: -27.2	r Remark t 2 Peak 9 Peak 9 Peak	
Type	1 2 3	Frequency MHZ 2987.92 3993.90 4883.52	Reading dBuV/m 53.71 48.27 49.47 42.57	Antenna n dB 28.50 29.79 31.20	Cabl dB 4.77 5.62 6.21 7.34	e Preamp dB 37.40 36.97 35.97	dBuV/ 49.58 46.71 50.91	l Limit m dBuV/m 74.00 74.00 74.00	limi: -24.4 -27.2 -23.0	r Remark t 2 Peak 9 Peak 9 Peak	
	1 2 3 4	Frequency MHZ 2987.92 3993.90 4883.52 6974.36	Reading dBuV/r 53.71 48.27 49.47 42.57	Antenna dB 28.50 29.79 31.20 35.00 Test channel	Cabl dB 4.77 5.62 6.21 7.34	e Preamp dB 37.40 36.97 35.97 34.15	dBuV/ 49.58 46.71 50.91 50.76	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limi: -24.4 -27.2 -23.0	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	
	1 2 3	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H	Reading dBuV/r 53.71 48.27 49.47 42.57	Antenna dB 28.50 29.79 31.20 35.00 Test channel	Cabl dB 4.77 5.62 6.21 7.34	e Preamp dB 37.40 36.97 35.97 34.15 CH11	dBuV/ 49.58 46.71 50.91 50.76	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limi: -24.4: -27.2: -23.0: -23.2:	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H	Reading dBuV/n 53.71 48.27 49.47 42.57 HT20)	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel	Cabl dB 4.77 5.62 6.21 7.34	e Preamp dB 37.40 36.97 35.97 34.15 CH11	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m	limi: -24.4; -27.2; -23.0; -23.2; Over limi:	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H	Reading dBuV/m 53.71 48.27 49.47 42.57 HT20)	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 7 Antenna 1 dB 28.50	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00	1imi -24.4 -27.2 -23.0 -23.2 Over limi -30.4	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak	
	1 2 3 4 Mark 1 2	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H	Reading dBuV/m 53.71 48.27 49.47 42.57 HT20) Reading dBuV/m 47.71 40.47	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00	1imir -24.4 -27.2 -23.0 -23.2 Over 1imir -30.4 -31.8	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 9 Peak	
	1 2 3 4 Mark 1 2 3	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHz 2987.92 4996.69 6992.14	Reading dBuV/n 53.71 48.27 49.47 42.57 HT20) Reading dBuV/n 47.71 40.47 39.11	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39 35.07	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 74.00 74.00	1imi: -24.4 -27.2: -23.0: -23.2 Over 1imi: -30.4: -31.8: -26.7(r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 9 Peak 9 Peak	
	1 2 3 4 Mark 1 2	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H	Reading dBuV/m 53.71 48.27 49.47 42.57 HT20) Reading dBuV/m 47.71 40.47	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00	1imir -24.4 -27.2 -23.0 -23.2 Over 1imir -30.4 -31.8	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 9 Peak 9 Peak	
	1 2 3 4 Mark 1 2 3	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHz 2987.92 4996.69 6992.14	Reading dBuV/m 53.71 48.27 49.47 42.57 HT20) Reading dBuV/m 47.71 40.47 39.11 36.00	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39 35.07	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 74.00 74.00	1imi: -24.4 -27.2: -23.0: -23.2 Over 1imi: -30.4: -31.8: -26.7(r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 9 Peak 9 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHz 2987.92 4996.69 6992.14 9228.06	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39 35.07 38.97 Test channel	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	1imir -24.4 -27.2 -23.0 -23.2 Over 1imir -30.4 -26.7 -23.9	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 8 Peak 8 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 2987.92 3993.90 4883.52 6974.36 802.11n(F Frequency MHz 2987.92 4996.69 6992.14 9228.06 802.11n(F	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00 HT20)	7 Antenna 1 dB 28.50 29.79 31.20 35.00 Test channel 28.50 31.39 35.07 38.97 Test channel	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15 CH11 e Preamp	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	1imir -24.44 -27.25 -23.06 -23.24 Over 1imir -30.44 -31.86 -26.76 -23.96 Over 100 -23.96	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 8 Peak 8 Peak 8 Peak 9 Peak	
Туре	1 2 3 4 Mark	Frequency MHZ 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHZ 2987.92 4996.69 6992.14 9228.06 802.11n(H	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00 HT20)	Antenna dB 28.50 29.79 31.20 35.00 Test channel Antenna dB 28.50 31.39 35.07 38.97 Test channel	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15 CH11	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Thirt m dBuV/m 74.00 74.00 Thirt m dBuV/m 74.00 Thirt m dBuV/m 74.00 Thirt m dBuV/m dBuV/m	1imir -24.44 -27.25 -23.06 -23.24 Over 1imir -30.44 -31.86 -26.76 -23.96	r Remark t 2 Peak 9 Peak 4 Peak Horizontal r Remark t 2 Peak 0 Peak 0 Peak 0 Peak 0 Peak 0 Peak 0 Peak	
Туре	1 2 3 4 Mark Mark 1 2 3 4	Frequency MHZ 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHZ 2987.92 4996.69 6992.14 9228.06 802.11n(H Frequency MHZ 2987.92	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00 HT20) Reading dBuV/r 53.57	Antenna dB 28.50 29.79 31.20 35.00 Test channel Antenna dB 28.50 31.39 35.07 38.97 Test channel Antenna dB 28.50 Antenna dB 28.50	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28 Cabl dB 4.77	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15 CH11 e Preamp dB 37.40 35.75	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10 Leve dBuV/ 49.44	l Limit m dBuv/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuv/m 74.00 74.00 Polarity Limit m dBuv/m 74.00 full m dBuv/m 74.00 full m dBuv/m 74.00	1imir -24.44 -27.25 -23.26 -23.26 Over 1imir -30.44 -31.86 -26.76 -23.96	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHZ 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHZ 2987.92 4996.69 6992.14 9228.06 802.11n(H Frequency MHZ 2987.92 3993.90	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00 HT20) Reading dBuV/r 49.86	Antenna dB 28.50 29.79 31.20 35.00 Test channel Antenna dB 28.50 31.39 35.07 38.97 Test channel Antenna dB 28.50 29.79	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28 Cabl dB 4.77 5.62	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15 CH11 e Preamp dB 37.40 36.97	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10 Leve dBuV/ 49.44 48.30	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00	1imir -24.44 -27.25 -23.26 -23.26 Over 1imir -30.44 -31.86 -26.76 -23.96	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	
Туре	1 2 3 4 Mark Mark 1 2 3 4	Frequency MHZ 2987.92 3993.90 4883.52 6974.36 802.11n(H Frequency MHZ 2987.92 4996.69 6992.14 9228.06 802.11n(H Frequency MHZ 2987.92	Reading dBuV/r 53.71 48.27 49.47 42.57 HT20) Reading dBuV/r 47.71 40.47 39.11 36.00 HT20) Reading dBuV/r 53.57	Antenna dB 28.50 29.79 31.20 35.00 Test channel Antenna dB 28.50 31.39 35.07 38.97 Test channel Antenna dB 28.50 Antenna dB 28.50	Cabl dB 4.77 5.62 6.21 7.34 Cabl dB 4.77 6.09 7.34 9.28 Cabl dB 4.77	e Preamp dB 37.40 36.97 35.97 34.15 CH11 e Preamp dB 37.40 35.75 34.22 34.15 CH11 e Preamp dB 37.40 36.97 35.82	dBuV/ 49.58 46.71 50.91 50.76 Leve dBuV/ 43.58 42.20 47.30 50.10 Leve dBuV/ 49.44	l Limit m dBuv/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuv/m 74.00 74.00 Polarity Limit m dBuv/m 74.00 full m dBuv/m 74.00 full m dBuv/m 74.00	1imir -24.44 -27.25 -23.26 -23.26 Over 1imir -30.44 -31.86 -26.76 -23.96	r Remark t 2 Peak 9 Peak 9 Peak 4 Peak Horizontal	

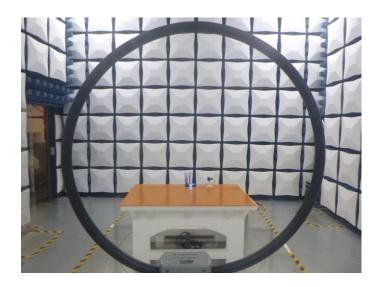
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Туре		802.11n(l	HT40)	Test channel		CH03		Polarity		Horizontal
	Mark		Reading		Cable				Ove	
		MHz 2987.92	dBuV/m 45.34	1 dB 28.50	dB 4.77	dB	dBuV/	m dBuV/m 74.00	limi: -32.7	
	1 2		44.62		6.21	37.40 35.99	41.21 46.05	74.00	-27.9	
	3		38.29		7.66	34.35	47.63	74.00	-26.3	
	4	9759.59	34.69		9.46	33.66	49.79	74.00	-24.2	
		3/33.33	34.03	33.30	3.40	33.00	43.73	74.00	-24.2	1 FEBR
Туре		802.11n(l	HT40)	Test channel		CH03		Polarity		Vertical
	Mark	Frequency	Reading		Cable	Preamp	Leve:	l Limit	over	Remark
		MHZ	dBuV/m		dB	dB	dBuV/r	m dBuV/m	limit	
	1	2995.54	50.55		4.75	37.38	46.42	74.00	-27.58	
	2	4846.37	49.01		6.21	35.99	50.44	74.00	-23.56	
	3	6992.14	42.00		7.34	34.22	50.19	74.00	-23.81	
	4	9784.47	34.31	39.30	9.48	33.44	49.65	74.00	-24.35	5 Peak
Туре		802.11n(l	HT40)	Test channel		CH06		Polarity		Horizontal
	Mark	Frequency	Readin	g Antenna	Cable	e Preamp	Leve	l Limit	ove	r Remark
		MHZ	dBuV/		dB	dB	dBuV/		limi	t
	1	2987.92	47.77	28.50	4.77	37.40	43.64	74.00	-30.3	6 Peak
	2	4871.10	45.77	31.20	6.30		47.23	74.00	-26.7	7 Peak
	3	6868.65	38.82	34.44	7.34	34.20	46.40	74.00	-27.6	0 Peak
	4	10295.50	35.03	39.59	9.65	36.11	48.16	74.00	-25.8	4 Peak
Туре										
i ype		802.11n(l	HT40)	Test channel		CH06		Polarity		Vertical
Type		802.11n(l	HT40)	Test channel		CH06		Polarity		Vertical
туре	Mark						Leve		Over	
туре	Mark	802.11n(l	Reading	, Antenna	Cable	Preamp		l Limit	Over	r Remark
туре	Mark	Frequency MHz	Reading dBuV/m	g Antenna n dB	Cable dB	Preamp dB	dBuV/i	l Limit m dBuV/m	limit	r Remark
туре	1	Frequency MHZ 2995.54	Reading dBuV/m 50.05	; Antenna 1 dB 28.50	Cable dB 4.75	Preamp dB 37.38	dBuV/1 45.92	l Limit m dBuV/m 74.00	limit -28.08	r Remark t 3 Peak
туре	1 2	Frequency MHz 2995.54 4871.10	Reading dBuV/m 50.05 47.47	Antenna dB 28.50 31.20	Cable dB 4.75 6.30	Preamp dB 37.38 36.04	dBuV/r 45.92 48.93	l Limit m dBuV/m 74.00 74.00	limit -28.08 -25.07	r Remark t 3 Peak 7 Peak
туре_	1	Frequency MHZ 2995.54	Reading dBuV/m 50.05 47.47 41.83	; Antenna dB 28.50 31.20 35.07	Cable dB 4.75	Preamp dB 37.38	dBuV/1 45.92	l Limit m dBuV/m 74.00	limit -28.08	r Remark t 3 Peak 7 Peak 3 Peak
	1 2 3	Frequency MHZ 2995.54 4871.10 6992.14 9834.41	Reading dBuV/m 50.05 47.47 41.83 35.17	Antenna dB 28.50 31.20 35.07 39.37	Cable dB 4.75 6.30 7.34 9.50	Preamp dB 37.38 36.04 34.22 34.13	dBuV/r 45.92 48.93 50.02	l Limit m dBuV/m 74.00 74.00 74.00 74.00	limit -28.08 -25.07 -23.98	r Remark t 8 Peak 7 Peak 8 Peak 9 Peak
Туре	1 2 3	Frequency MHz 2995.54 4871.10 6992.14	Reading dBuV/m 50.05 47.47 41.83 35.17	; Antenna dB 28.50 31.20 35.07	Cable dB 4.75 6.30 7.34 9.50	Preamp dB 37.38 36.04 34.22	dBuV/r 45.92 48.93 50.02	l Limit m dBuV/m 74.00 74.00 74.00	limit -28.08 -25.07 -23.98	r Remark t 3 Peak 7 Peak 8 Peak
	1 2 3 4	Frequency MHz 2995.54 4871.10 6992.14 9834.41 802.11n(H	Reading dBuV/m 50.05 47.47 41.83 35.17	Antenna dB 28.50 31.20 35.07 39.37 Test channel	Cable dB 4.75 6.30 7.34 9.50	Preamp dB 37.38 36.04 34.22 34.13 CH09	dBuV/1 45.92 48.93 50.02 49.91	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -28.08 -25.07 -23.98 -24.09	r Remark t 3 Peak 7 Peak 3 Peak 9 Peak Horizontal
	1 2 3	Frequency MHz 2995.54 4871.10 6992.14 9834.41 802.11n(H	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40)	Antenna dB 28.50 31.20 35.07 39.37 Test channel	Cable dB 4.75 6.30 7.34 9.50	Preamp dB 37.38 36.04 34.22 34.13 CH09	dBuV/r 45.92 48.93 50.02 49.91	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	limit -28.08 -25.07 -23.98 -24.09	r Remark t 3 Peak 7 Peak 3 Peak 9 Peak Horizontal
	1 2 3 4 Mark	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(H	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40)	Antenna dB 28.50 31.20 35.07 39.37 Test channel	Cable dB 4.75 6.30 7.34 9.50	Preamp dB 37.38 36.04 34.22 34.13 CH09	dBuV/v 45.92 48.93 50.02 49.91 D Leve dBuV/	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -28.08 -25.07 -23.98 -24.09	r Remark t 3 Peak 7 Peak 8 Peak 9 Peak Horizontal
	1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(H	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40)	Antenna dB 28.50 31.20 35.07 39.37 Test channel	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77	Preamp dB 37.38 36.04 34.22 34.13 CH09	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/ 46.87	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit /m dBuV/m 74.00	1imi1 -28.08 -25.07 -23.98 -24.09 Ove limi	r Remark t 3 Peak 7 Peak 8 Peak 9 Peak Horizontal er Remark it
	1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09	Antenna dB 28.50 31.20 35.07 39.37 Test channel g Antenna dB 28.50 31.20	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05	Preamp dB 37.38 36.04 34.22 34.13 CH09 e Preamp dB 37.40 35.79	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/ 46.87 47.55	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Plainit m dBuV/m 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 Ove 1imi -27.1	r Remark t 3 Peak 7 Peak 8 Peak 9 Peak Horizontal er Remark it 13 Peak
	1 2 3 4 Mark 1 2 3	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14	Antenna dB 28.50 31.20 35.07 39.37 Test channel g Antenna dB 28.50 31.20 34.40	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/ 46.87 47.55 47.78	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Polarity Limit /m dBuV/m 74.00 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 -24.09 -24.09 -27.1 -26.4 -26.2	r Remark t 3 Peak 7 Peak 8 Peak 9 Peak Horizontal er Remark it 13 Peak 15 Peak 22 Peak
Туре	1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I Frequency MHZ 2987.92 4933.50 6851.19 9784.47	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26	Antenna dB 28.50 31.20 35.07 39.37 Test channel g Antenna m dB 28.50 31.20 34.40 39.30	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48	Preamp dB 37.38 36.04 34.22 34.13 CH09 e Preamp dB 37.40 35.79 34.05 33.44	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/ 46.87 47.55 47.78	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 -24.09 -24.09 -27.1 -26.4 -26.2	Remark t Remark t Peak Peak Peak Horizontal Remark t t Remark t Peak Peak Peak
	1 2 3 4 Mark 1 2 3	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26	Antenna dB 28.50 31.20 35.07 39.37 Test channel g Antenna dB 28.50 31.20 34.40	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/ 46.87 47.55 47.78	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Polarity Limit /m dBuV/m 74.00 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 -24.09 -24.09 -27.1 -26.4 -26.2	r Remark t 3 Peak 7 Peak 8 Peak 9 Peak Horizontal er Remark it 13 Peak 15 Peak 22 Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/46.87 47.55 47.78 49.60	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity el Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	1imit -28.08 -25.07 -23.98 -24.09 Ove 1imit -27.1 -26.4 -24.4	Peak Peak Peak Peak Horizontal Per Remark It Peak Peak Vertical
Туре	1 2 3 4 Mark 1 2 3	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I Frequency MHZ 2987.92 4933.50 6851.19 9784.47 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26 HT40)	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09	dBuV/1 45.92 48.93 50.02 49.91 Leve dBuV/46.87 47.55 47.78 49.60 Leve dBuV/46.87	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity 21 Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	1imit -28.08 -25.07 -23.98 -24.09 Ove	Peak Peak Peak Peak Horizontal Per Remark L Peak Peak Vertical Remark
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 2995.54 4871.10 6992.14 9834.41 802.11n(I Frequency MHz 2987.92 4933.50 6851.19 9784.47 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26 HT40)	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel Test channel	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48 Cable dB	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/46.87 47.55 47.78 49.60 Leve dBuV/	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity el Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m	1imit -28.08 -25.07 -23.98 -24.09 Ove 1imi -27.1 -26.4 -26.2 -24.4	r Remark t Remark t Peak Peak Peak Horizontal r Remark t Vertical r Remark t
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I Frequency MHZ 2987.92 4933.50 6851.19 9784.47 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26 HT40) Reading dBuV/m	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel Test channel Antenna dB 28.79	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48 Cable dB 5.62	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09 Preamp dB 36.97	dBuV/1 45.92 48.93 50.02 49.91 Leve dBuV/ 46.87 47.55 47.78 49.60 Leve dBuV/ 45.55	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity el Limit /m dBuV/m 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00	1imit -28.08 -25.07 -23.98 -24.09 Ove 1imit -27.1 -26.4 -26.2 -24.4	r Remark t Remark t Peak Peak Peak Horizontal r Remark t Peak Peak Vertical r Remark t Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHZ 2995.54 4871.10 6992.14 9834.41 802.11n(I Frequency MHZ 2987.92 4933.50 6851.19 9784.47 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26 HT40) Reading dBuV/m	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel Test channel Antenna dB 28.70 39.30	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48 Cable dB 5.62 5.78	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09 Preamp dB 36.97 36.62	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/46.87 47.55 47.78 49.60 Leve dBuV/45.55 45.23	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity **I Limit /m dBuV/m 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 -24.09 -24.44 -26.2 -24.4	r Remark t Remark t Peak Peak Peak Horizontal r Remark t Peak Peak Vertical r Remark t Peak Peak Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 2995.54 4871.10 6992.14 9834.41 802.11n(I	Reading dBuV/m 50.05 47.47 41.83 35.17 HT40) Reading dBuV/m 51.00 46.09 40.14 34.26 HT40) Reading dBuV/m	Antenna dB 28.50 31.20 35.07 39.37 Test channel Antenna dB 28.50 31.20 34.40 39.30 Test channel Test channel Antenna dB 28.79	Cable dB 4.75 6.30 7.34 9.50 Cable dB 4.77 6.05 7.29 9.48 Cable dB 5.62	Preamp dB 37.38 36.04 34.22 34.13 CH09 Preamp dB 37.40 35.79 34.05 33.44 CH09 Preamp dB 36.97 36.62 35.82	dBuV/1 45.92 48.93 50.02 49.91 D Leve dBuV/46.87 47.55 47.78 49.60 Leve dBuV/45.55 45.23 48.37	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity el Limit /m dBuV/m 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	1imit -28.08 -25.07 -23.98 -24.09 -24.09 -24.40 -26.2 -24.4	r Remark t Remark t Peak Peak Peak Horizontal r Remark t Peak Peak Vertical r Remark t Peak

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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission



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7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTEW23110070

8. APPENDIX REPORT

Shenzhen Huatongwei International Inspection Co., Ltd.

APPENDIX REPORT

Project No.	SHT2306080101EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT23060801006	Model No.	F8926-GW-02
Start test date	2023-09-08	Finish date	2023-11-23
Temperature	24.6℃	Humidity	48%
Test Engineer	Caspar Chen	Auditor	Xiaodong Zheo

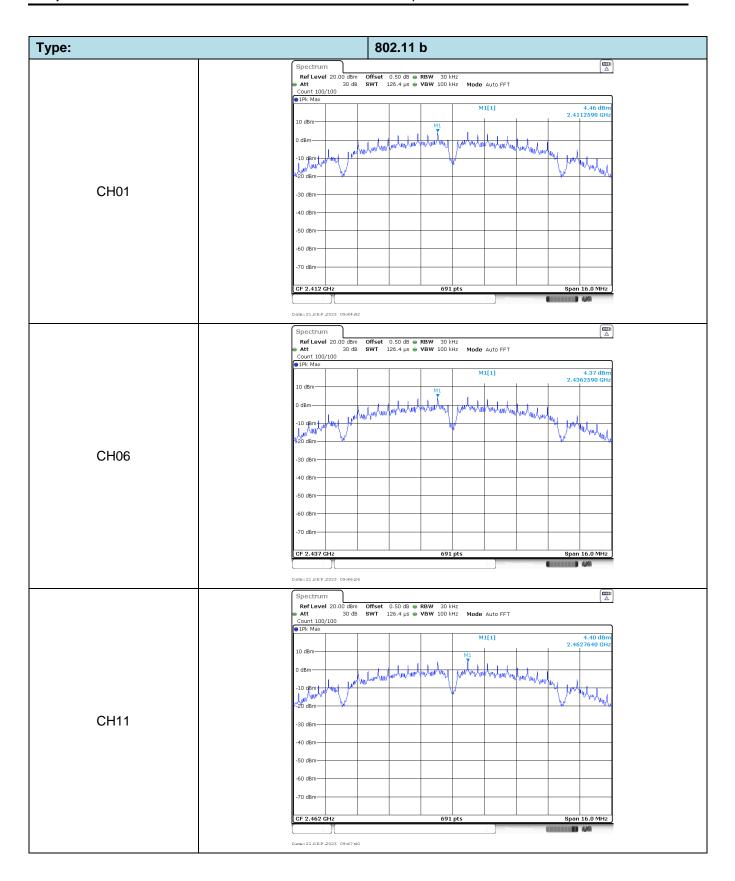
Appendix clause	Test item	Result
А	Conducted Peak Output Power	PASS
В	Power Spectral Density	PASS
С	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
Е	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

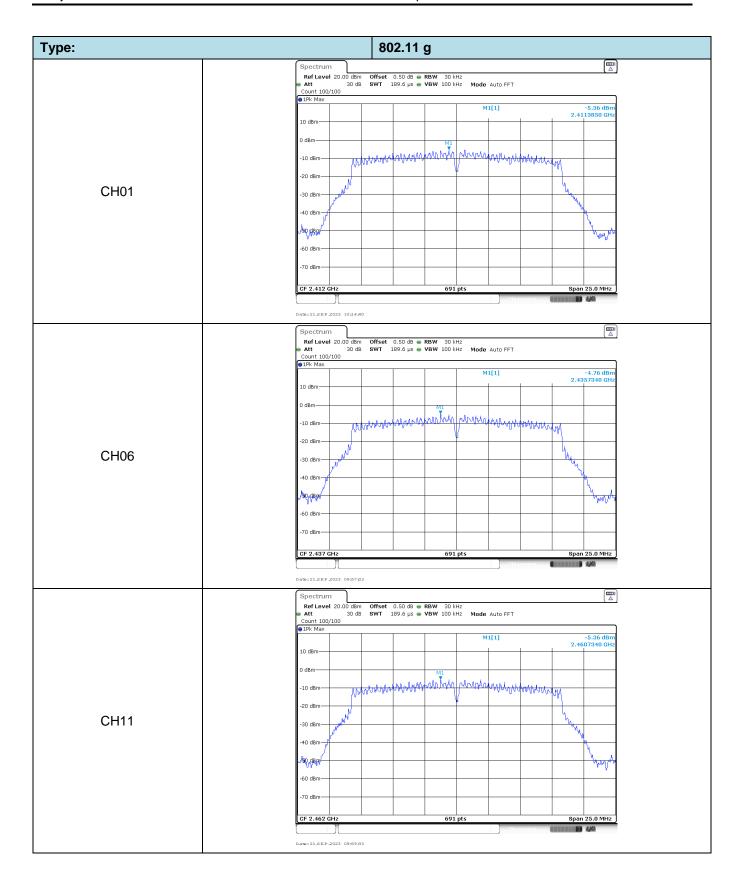
Appendix A: Conducted Peak Output Power

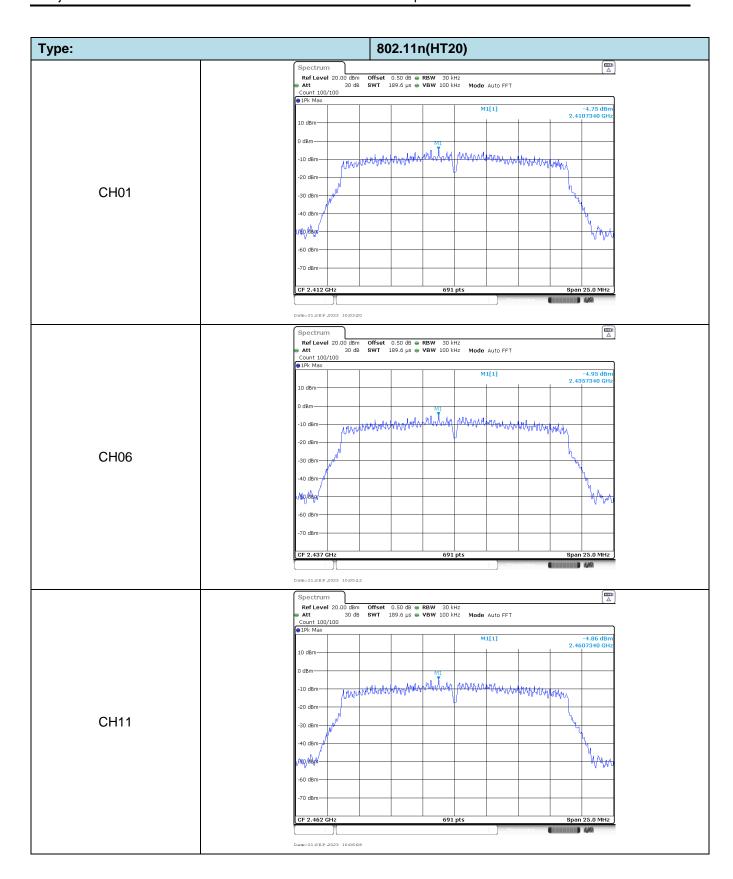
Туре	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
	01	18.27	16.29		
802.11b	06	18.12	16.08	≤ 30.00	Pass
	11	18.22	16.09		
	01	18.24	16.09		Pass
802.11g	06	18.32	15.48	≤ 30.00	
	11	18.25	16.32		
802.11n (HT20)	01	18.05	16.11		Pass
	06	18.10	15.54	≤ 30.00	
	11	18.08	16.13		
802.11n(HT40)	03	18.38	15.62		
	06	18.24	16.03	≤ 30.00	Pass
	09	18.17	16.20		

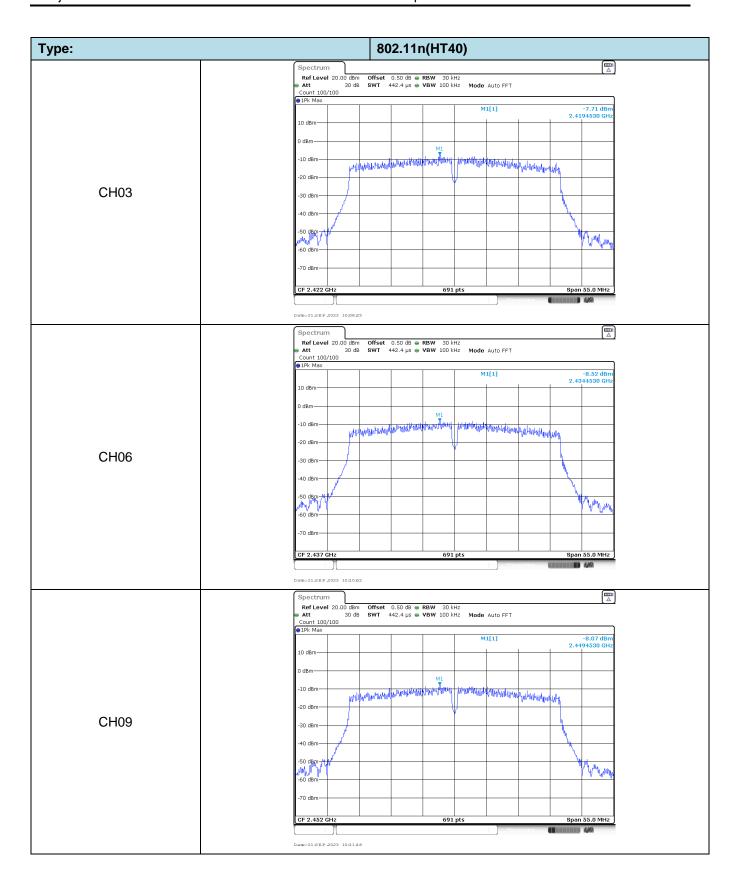
Appendix B: Power Spectral Density

Туре	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
	01	4.46		
802.11b	06	4.37	≤8.00	Pass
	11	4.40		
	01	-5.36		Pass
802.11g	06	-4.76	≤8.00	
	11	-5.36		
	01	-4.75		
802.11n(HT20)	06	-4.95	≤8.00	Pass
	11	-4.82		
802.11n(HT40)	03	-7.71		
	06	-8.52	≤8.00	Pass
	09	-8.07		



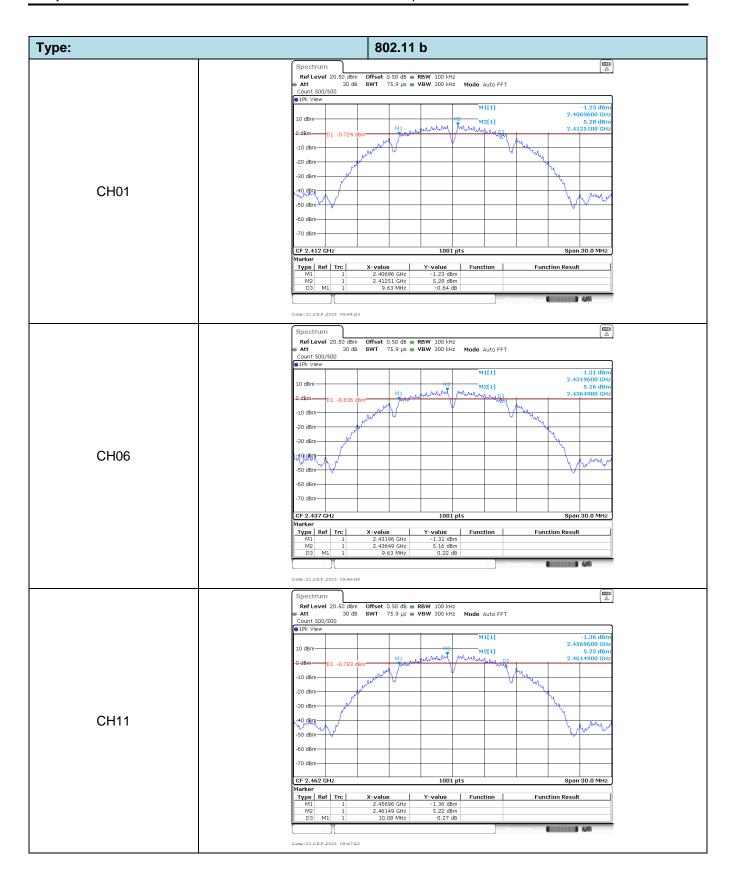


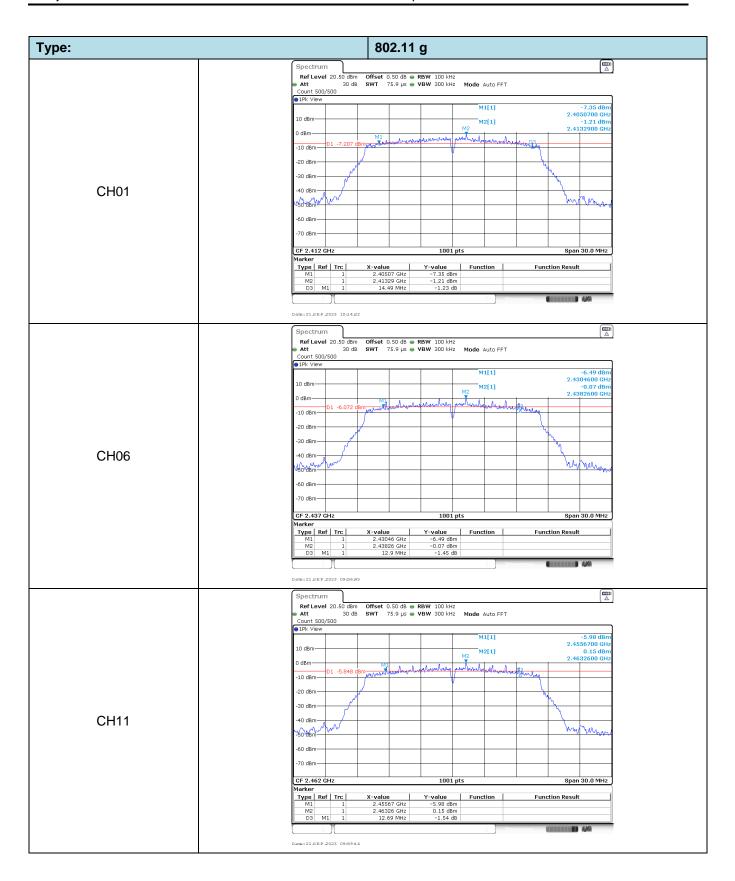


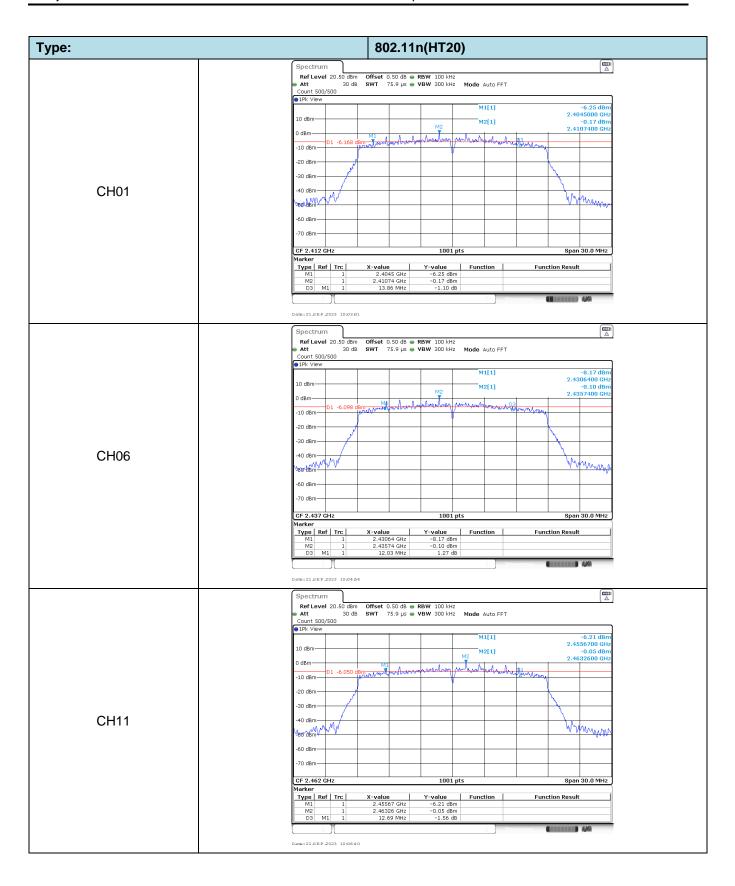


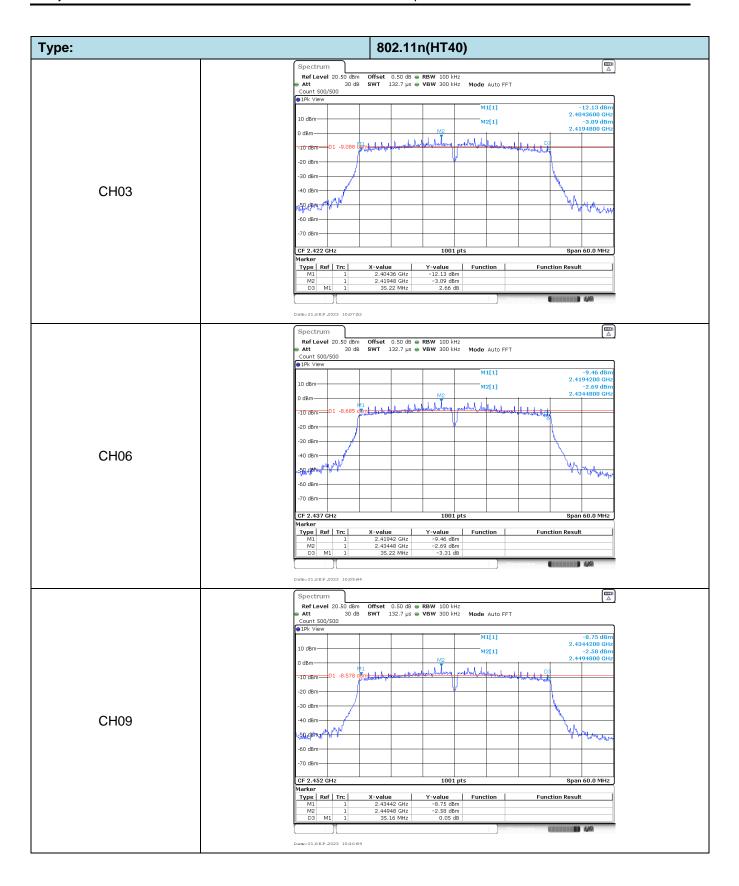
Appendix C: 6dB bandwidth

Туре	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
	01	9.63		
802.11b	06	9.63	≥0.5	Pass
	11	10.08		
	01	14.49		
802.11g	06	12.90	≥0.5	Pass
	11	12.69		
802.11n(HT20)	01	13.86		
	06	12.03	≥0.5	Pass
	11	12.69		
	03	35.22		
802.11n(HT40)	06	35.22	≥0.5	Pass
	09	35.16		



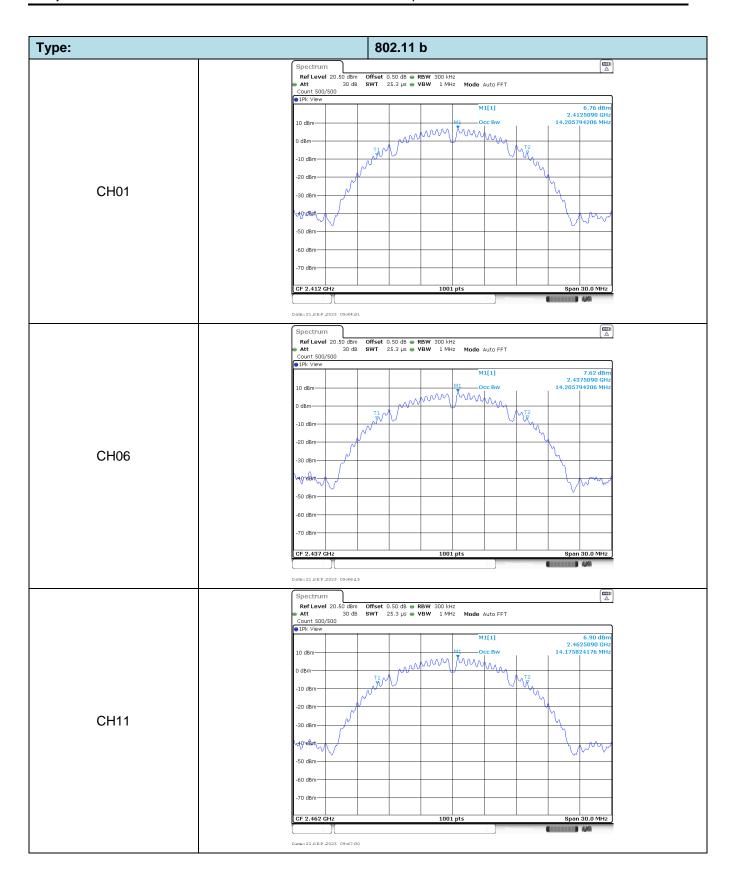


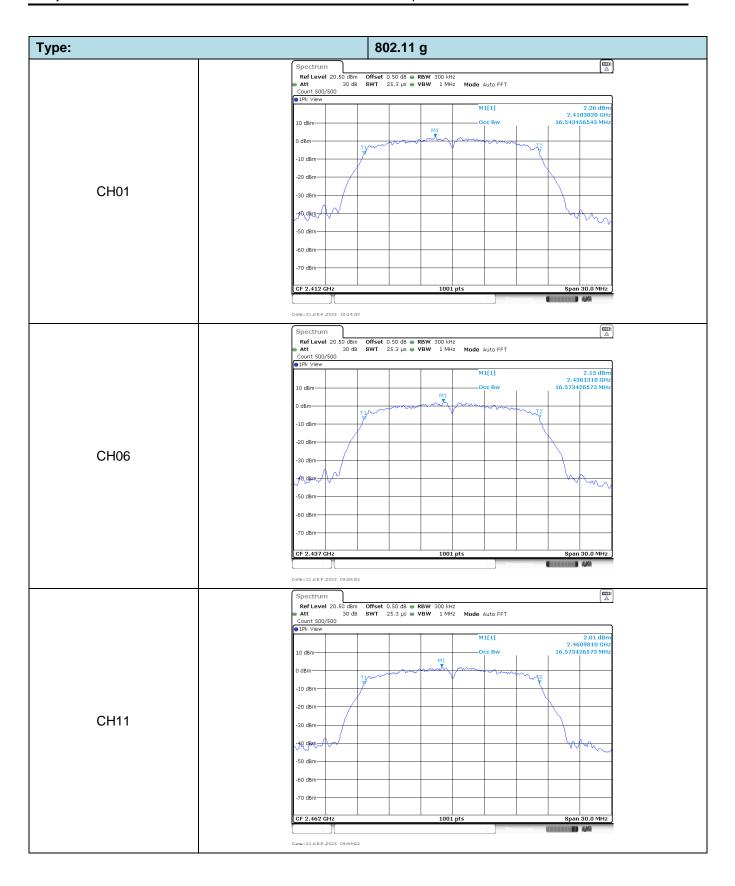


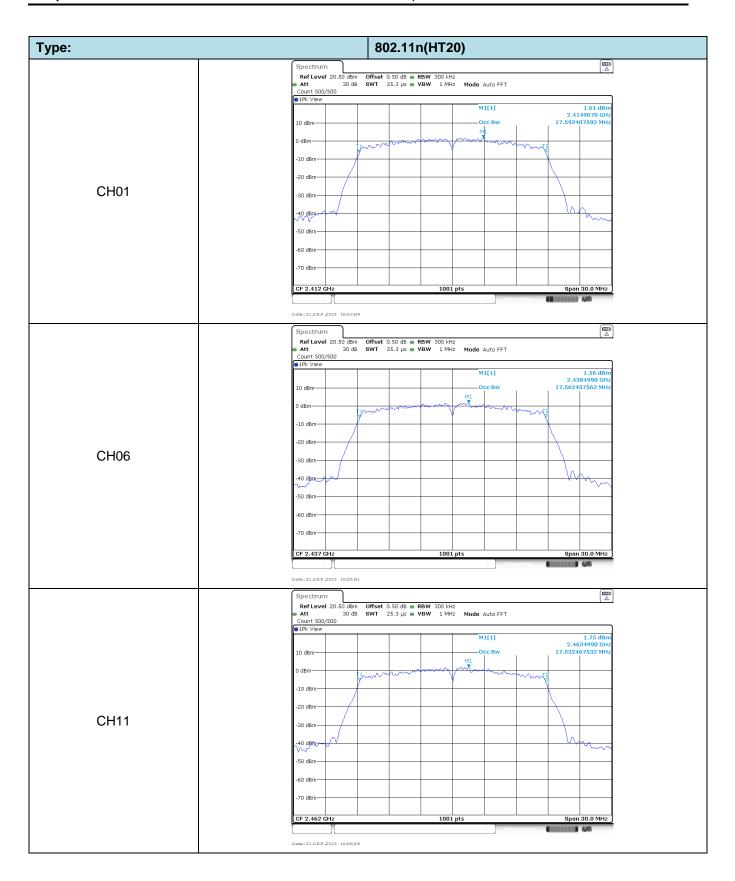


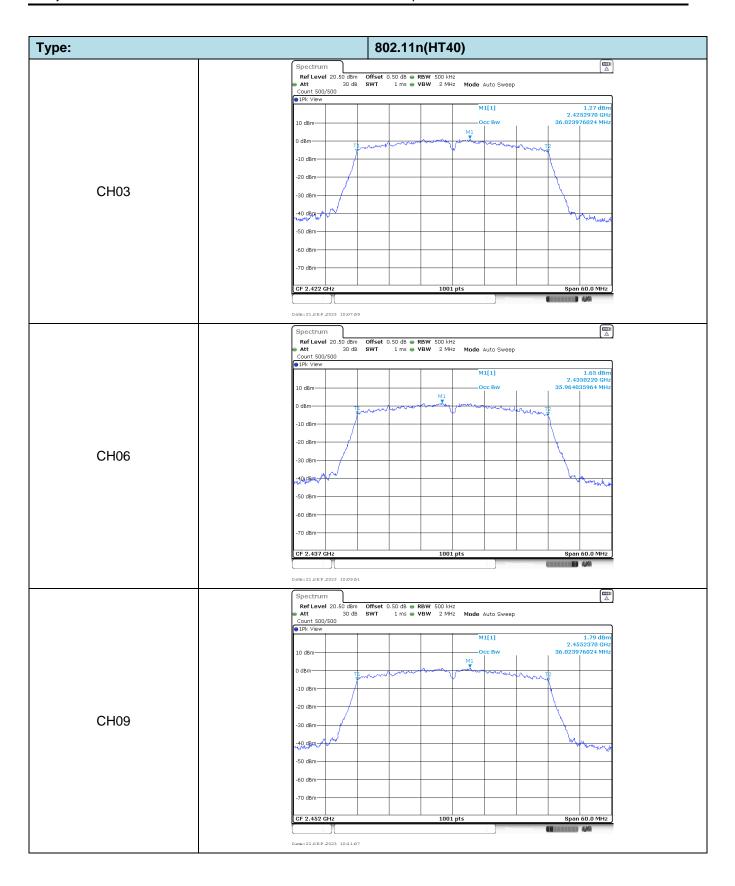
Appendix D: 99% Occupied Bandwidth

Туре	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
	01	14.21		
802.11b	06	14.21	-	Pass
	11	14.18		
	01	16.54		
802.11g	06	16.57	-	Pass
	11	16.57		
	01	17.59		
802.11n(HT20)	06	17.56	-	Pass
	11	17.53		
	03	36.02		
802.11n(HT40)	06	35.96	-	Pass
	09	36.02		



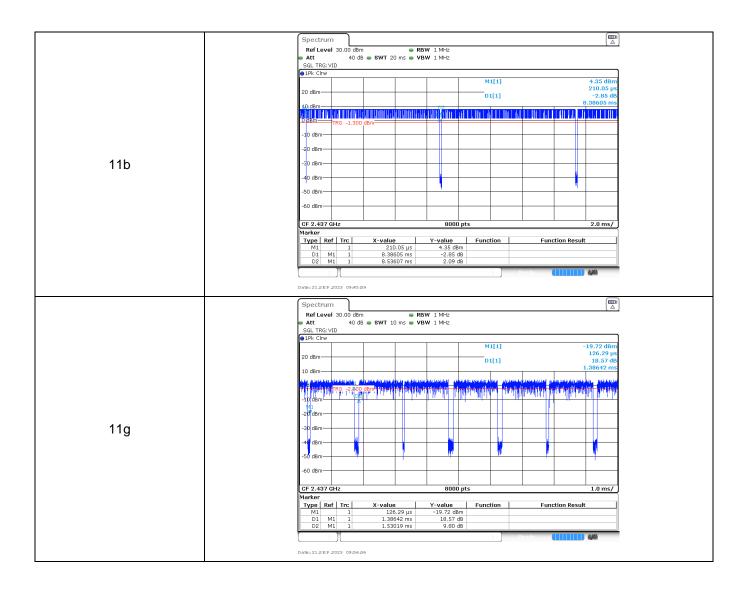


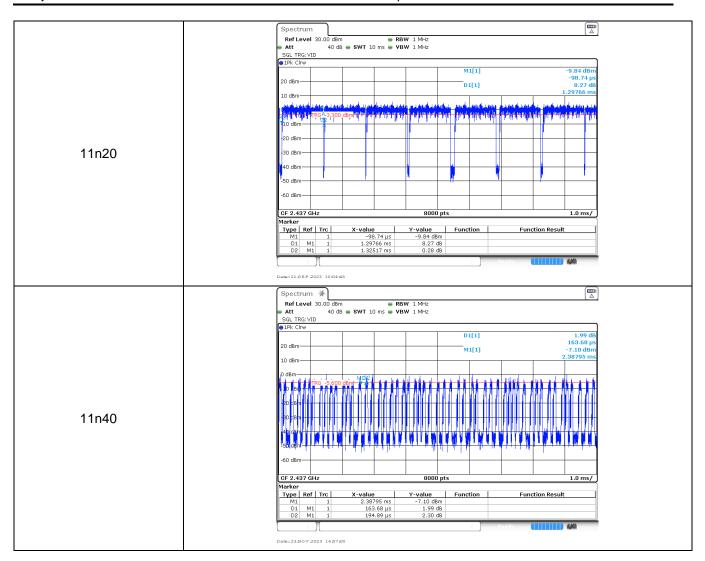




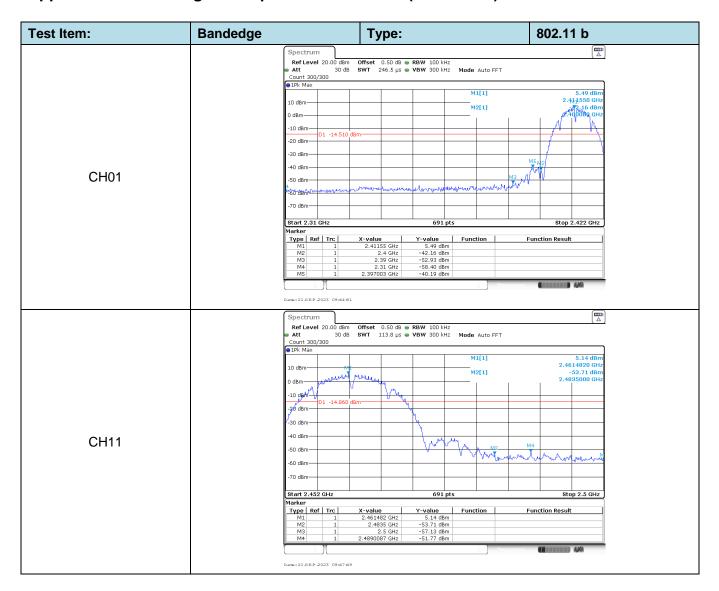
Appendix E: Duty Cycle

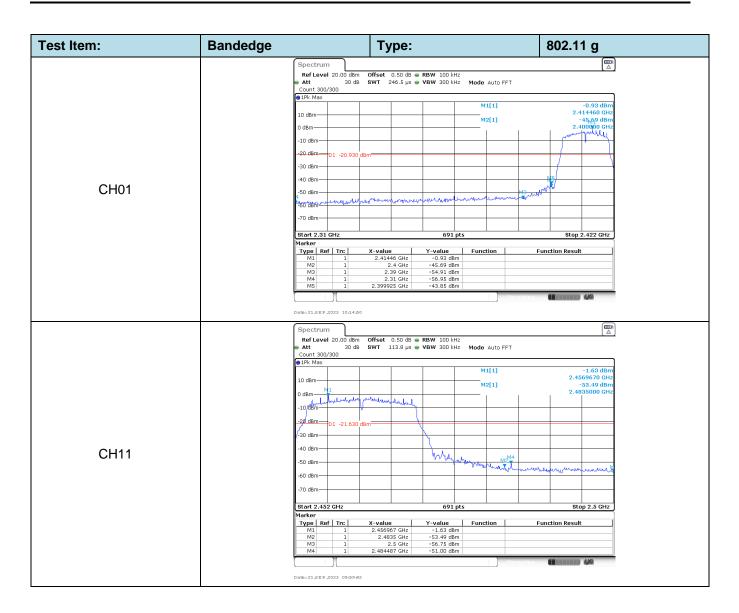
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.39	8.54	0.98	0.12
11g	2437	1.39	1.53	0.91	0.72
11n20	2437	1.30	1.33	0.98	0.77
11n40	2437	0.16	0.19	0.84	6.25

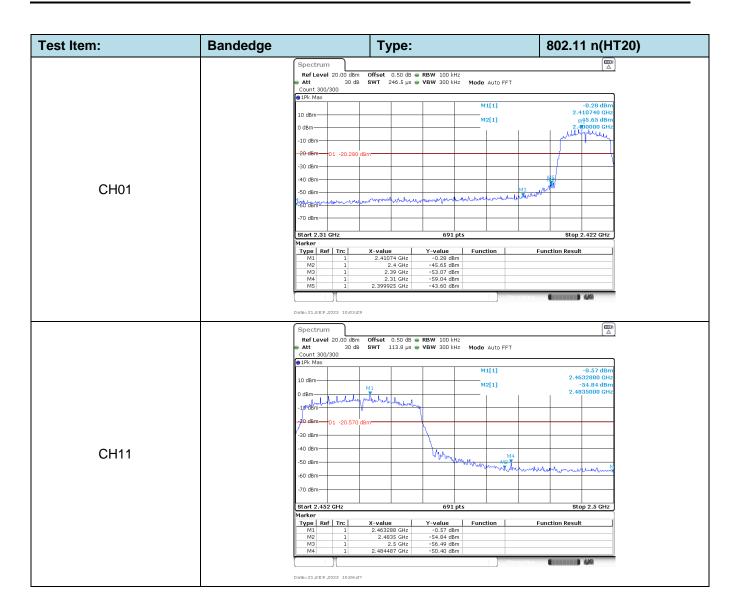


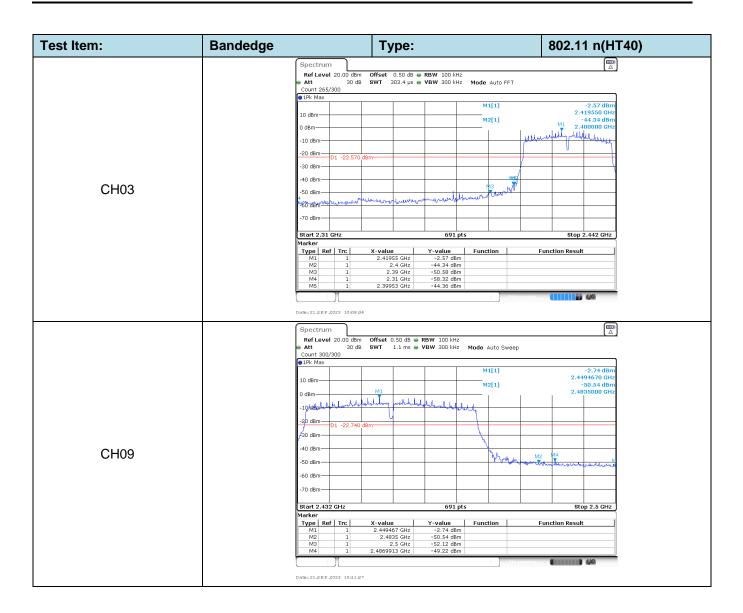


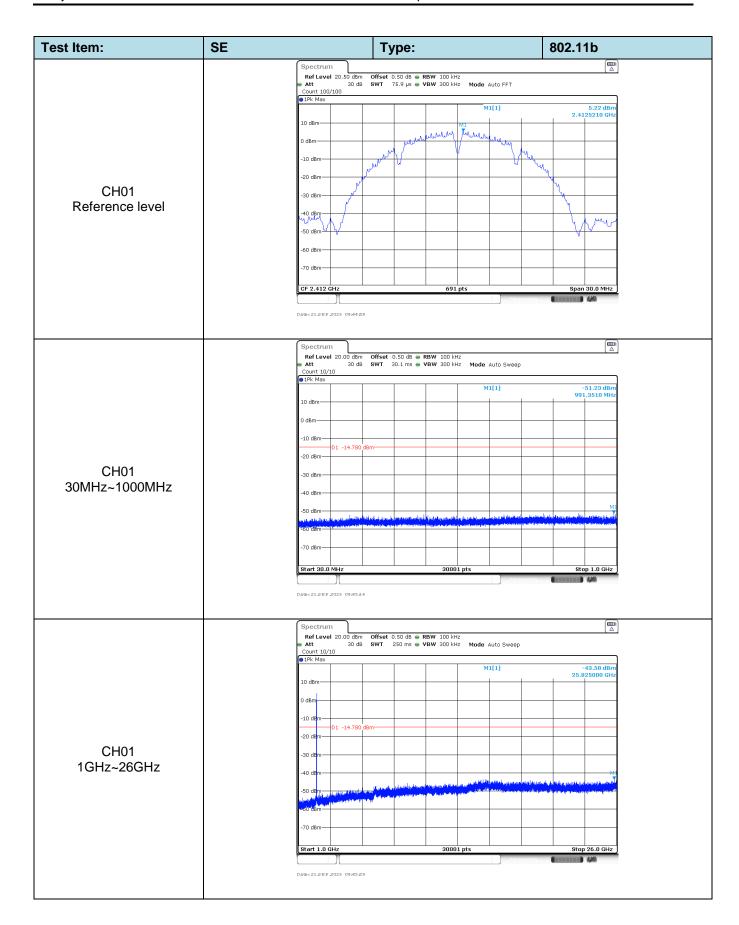
Appendix F: Band edge and Spurious Emissions (conducted)

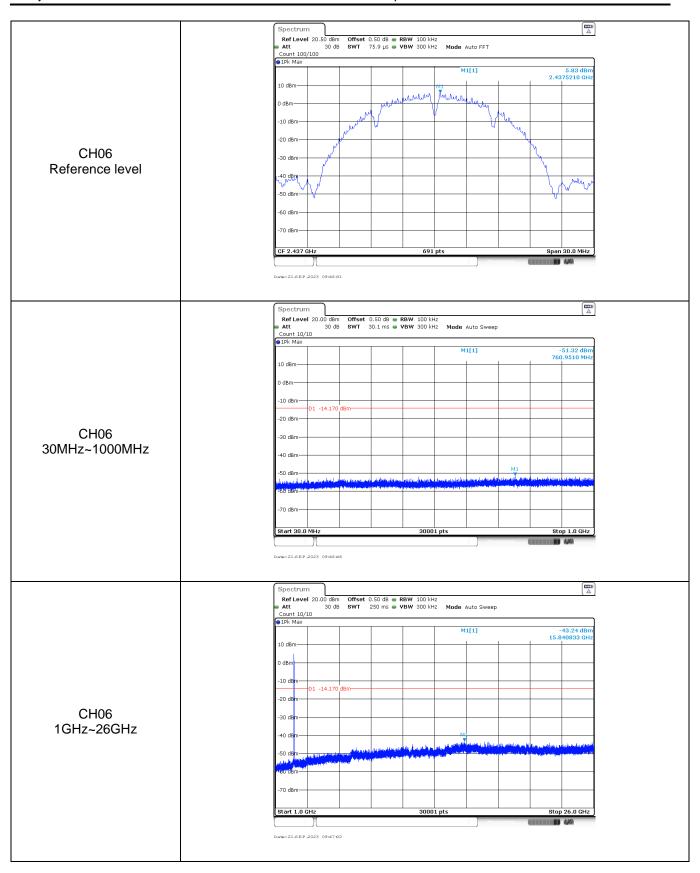


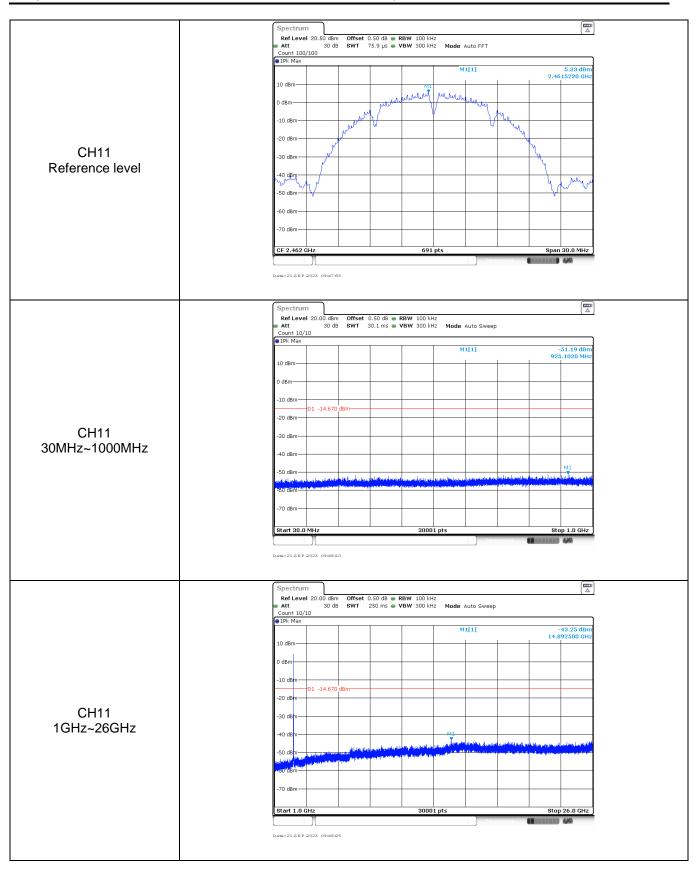


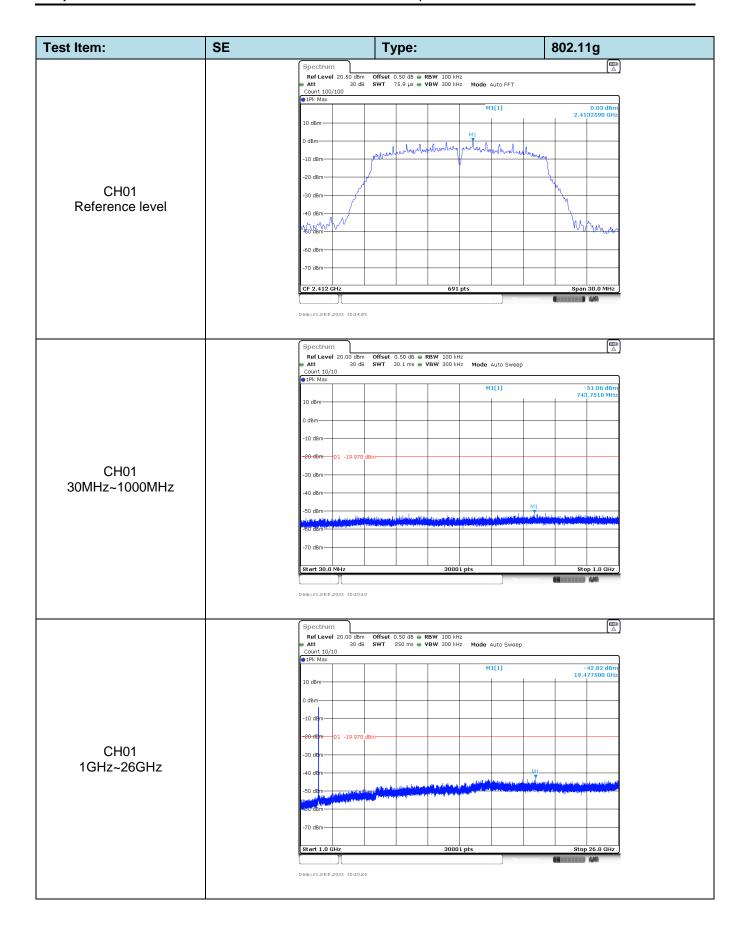


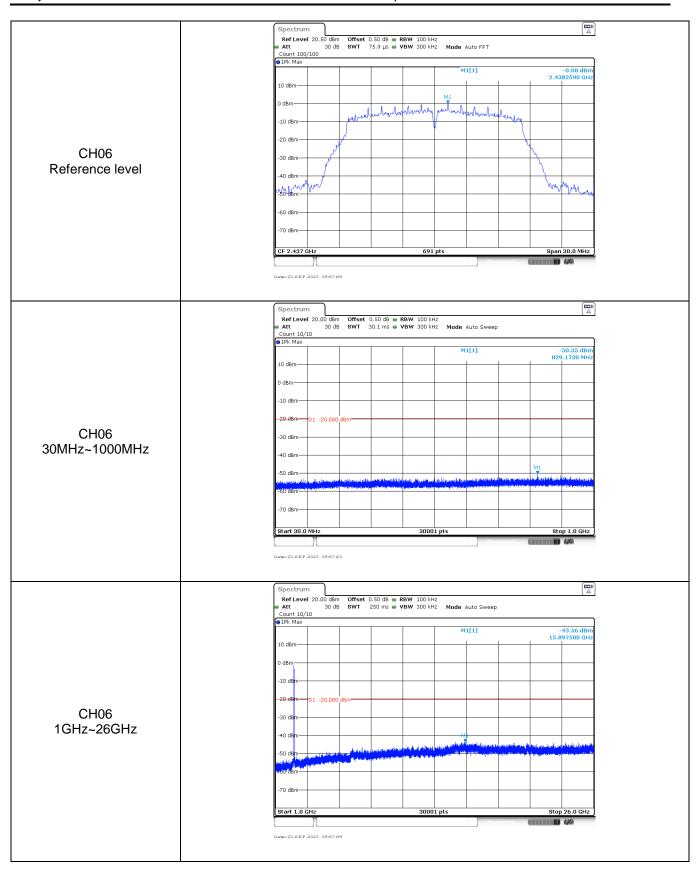


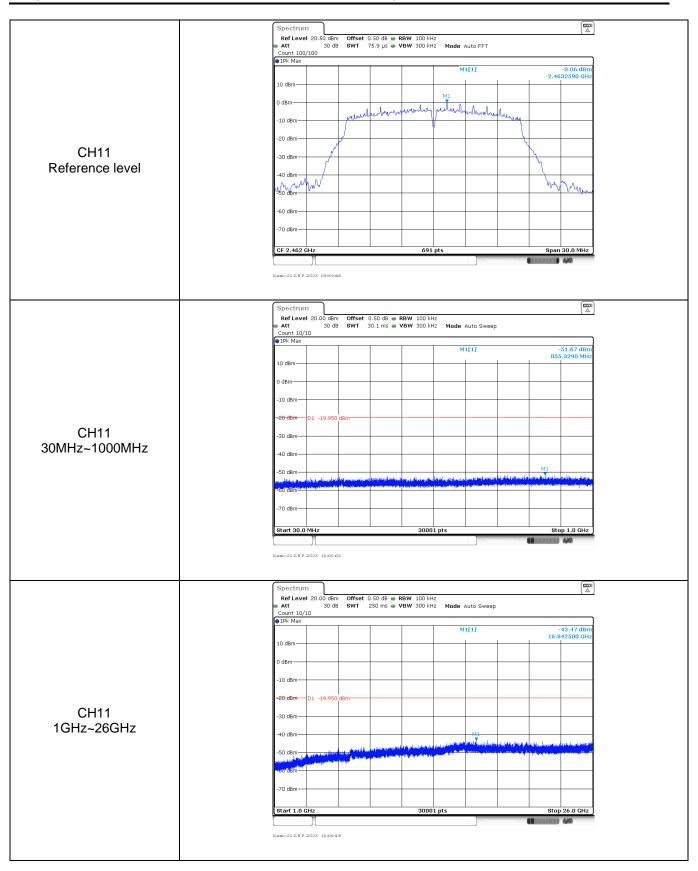


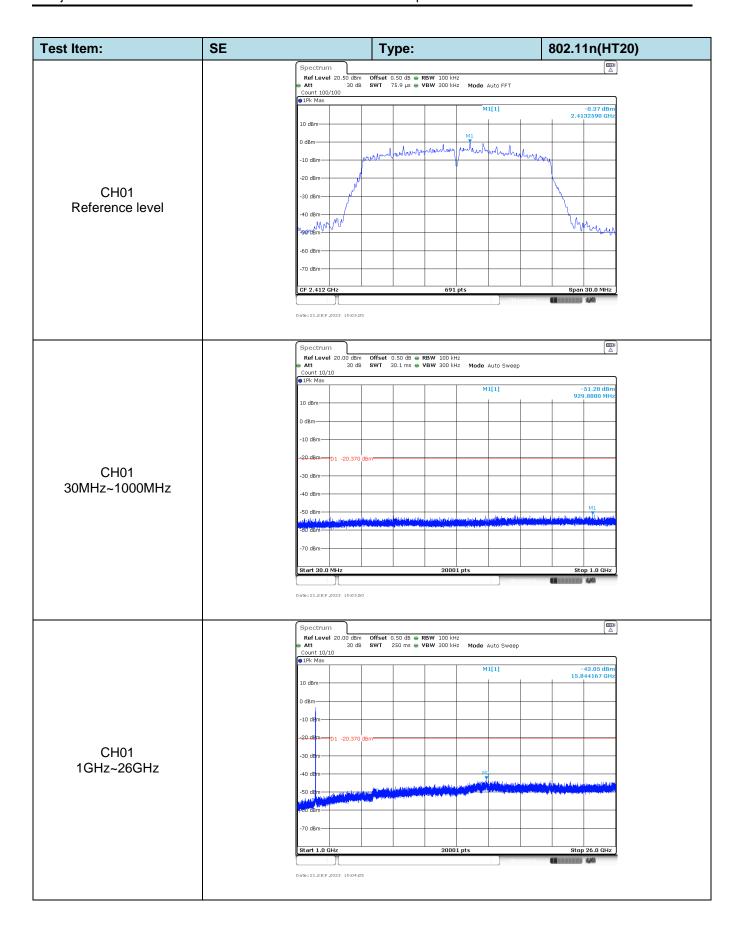


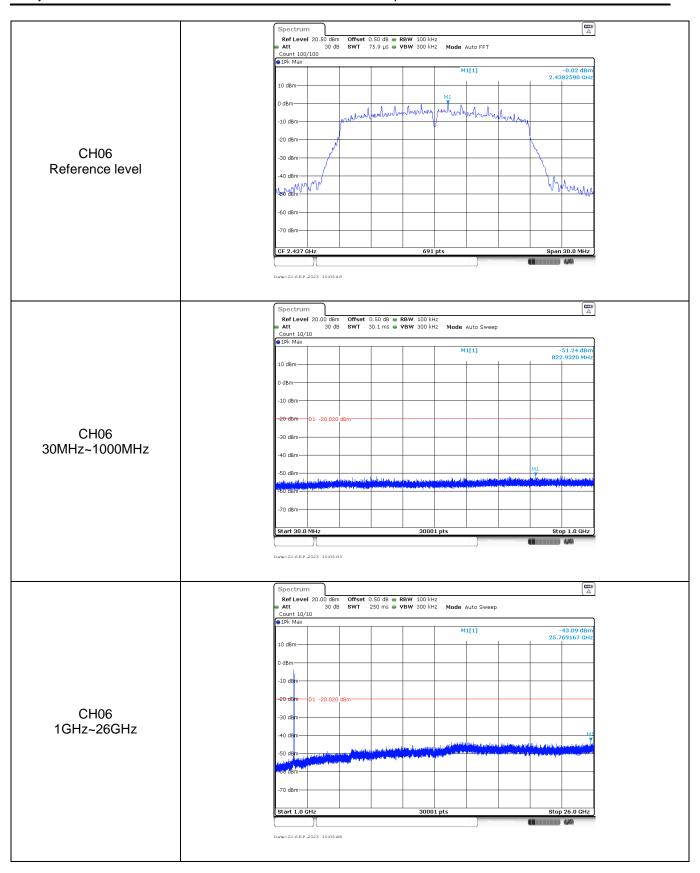


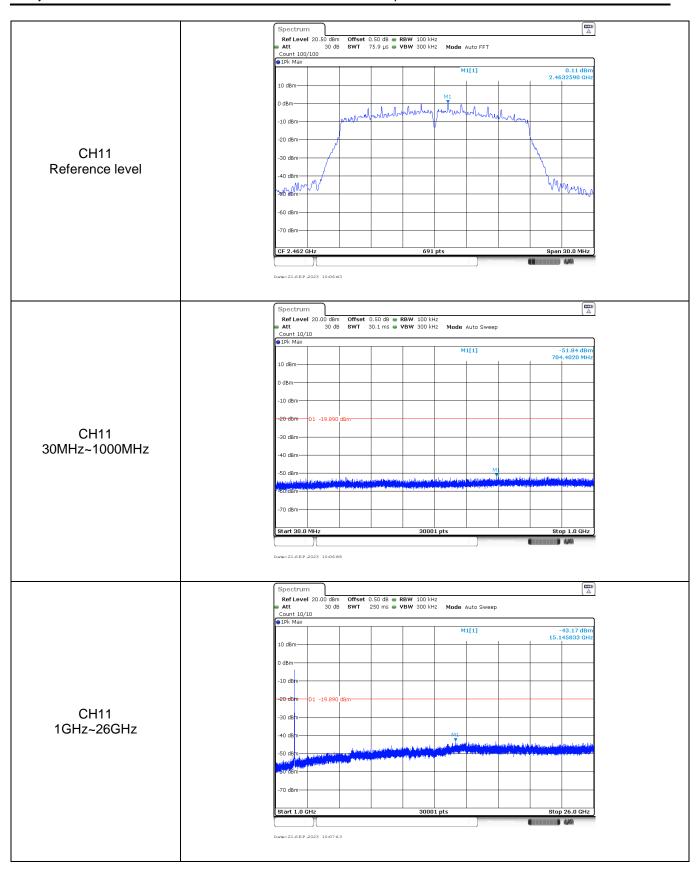


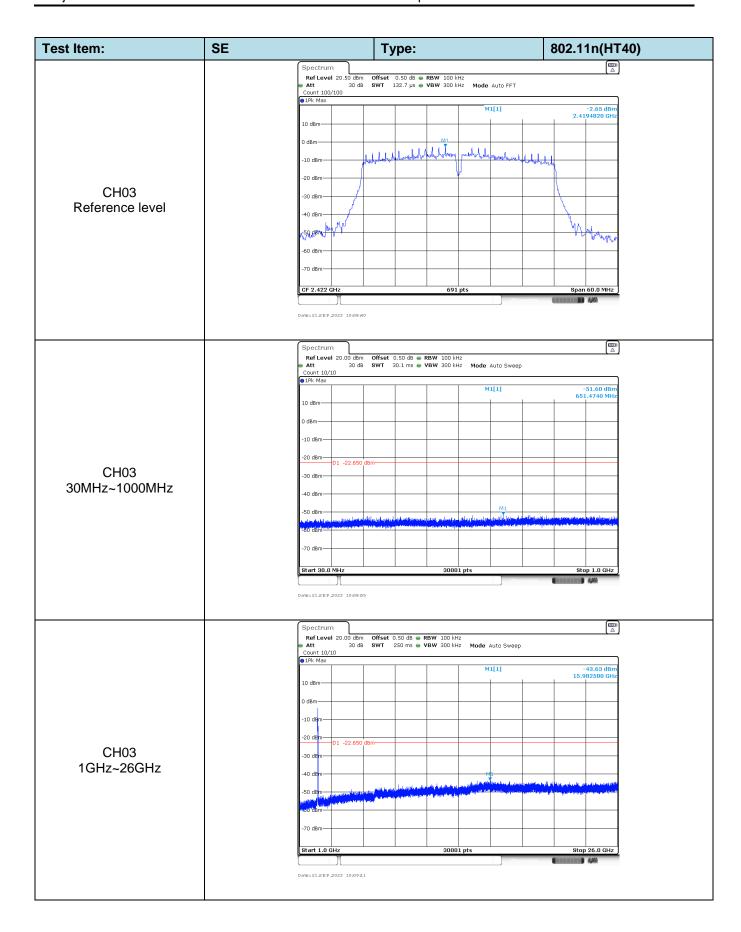


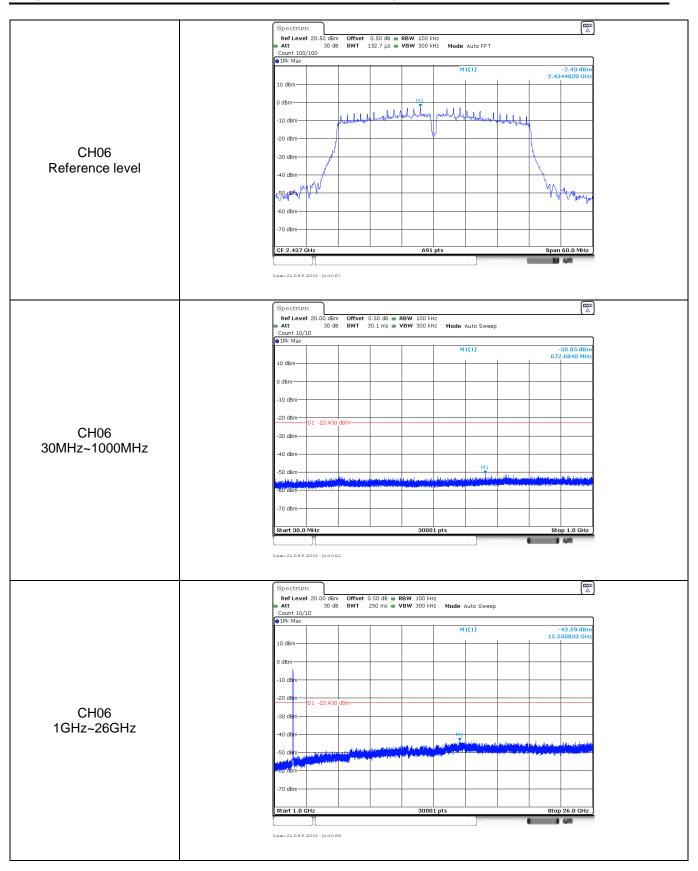


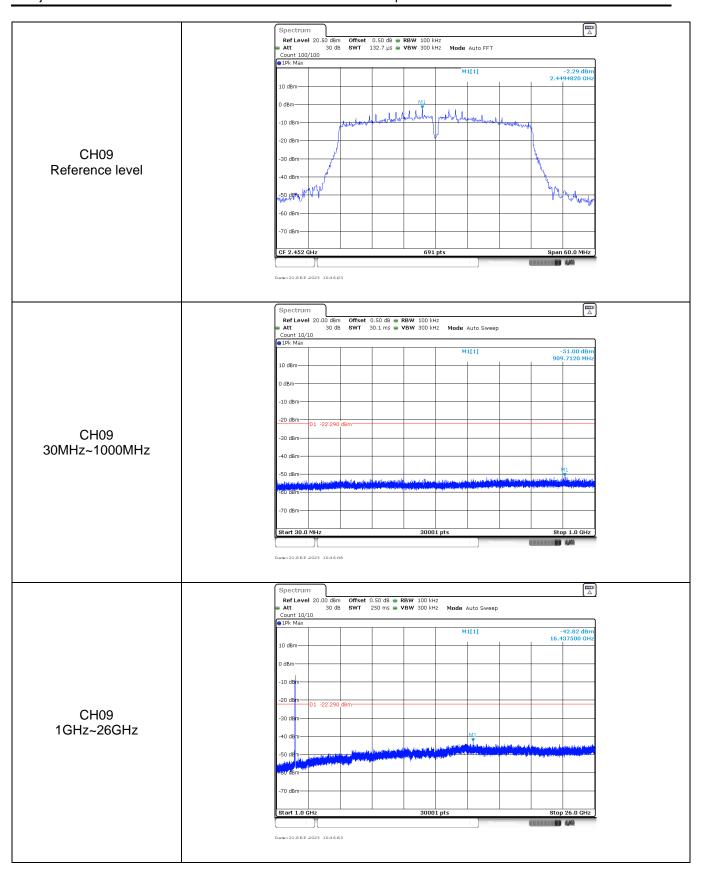












-----End of Report-----