

	ST REPORT		
Report No:	CHTEW22080320 R	eport Verification:	
Project No	SHT2207115001EW		
FCC ID:	2ASWW-STAR93G		
Applicant's name:	XINCHUANGXIN INTERNATIO	ONAL CO.,LTD	
Address	ROOM 605 6/F, FA YUEN CO YUEN STREET MONGKOK KI	MMERCIAL BUILDING, 75-77 FA L	
Product Name:	Tablet		
Trade Mark	CORN		
Model No	Start9 3G		
Listed Model(s)			
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of receipt of test sample	Aug.09, 2022		
Date of testing	Aug.09, 2022-Aug.25, 2022		
Date of issue	Aug.26, 2022		
Result	PASS		
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Testing Laboratory Name: :	Shenzhen Huatongwei International Inspection Co., Ltd.		
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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:

- <u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: 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	2022-08-26	Original

2. TEST DESCRIPTION

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

Note:

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

- *1: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

Main unit information:	
Product Name:	Tablet
Trade Mark:	CORN
Model No.:	Start9 3G
Listed Model(s):	-
Power supply:	DC 3.8V from Battery
Hardware version:	S863T-7731E-V1.0
Software version:	CORN_Star9 3G_S70307_V01_220803

3.3. Radio Specification Description

Support type ^{*2} :	🖾 802.11b	🛛 802.11g	🛛 802.11n
Support bandwidth:	🛛 20MHz	40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
	802.11g/n:	BPSK, QPSK, 16QAM, 64QAM	
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
Channel number:	802.11b/g/n(HT20): 11		
Channel separation:	5MHz		
Antenna technology:			
Antenna type:	Interna		
Antenna gain:	1.1 dBi		

Note:

*2: only show the RF function associated with this report.

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	
Connect information:	Phone: 86-755-26715499 E-mail: <u>cs@szhtw.com.cn</u> <u>http://www.szhtw.com.cn</u>	
Qualifications	Туре	Accreditation Number
Qualifications	FCC	762235

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/n(HT20)		
Channel	Frequency (MHz)	
01	2412	
02	2417	
· :	· :	
06	2437	
· :	· :	
10	2457	
11	2462	

4.2. Descriptions of Test mode

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

4.3. 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.

4.4. 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	YPHT22071150003	
EMI test items	YPHT22071150003	

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

4.5. 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			

4.6. Testing environmental condition

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

4.7. Statement of the measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz
	130Hz for >1GHz

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

4.8. Equipment Used during the Test

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/09/14	2022/09/13
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/09/17	2022/09/16
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2021/09/16	2022/09/15
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/09/17	2022/09/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
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	2018/09/30	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/09/14	2022/09/13
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
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	2018/09/27	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/09/13	2022/09/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2021/09/13	2022/09/12
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2021/09/13	2022/09/12
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2021/09/13	2022/09/12
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2021/09/13	2022/09/12
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

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.

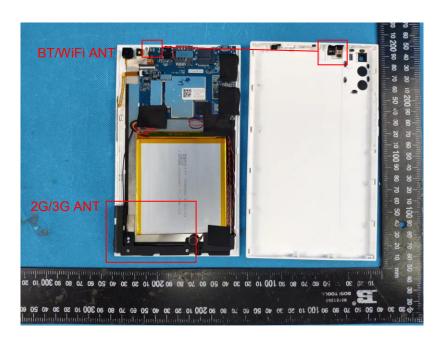
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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 6 dBi 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 6 dBi.

TEST RESULT

☑ Passed □ Not Applicable

The antenna type is Interna antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



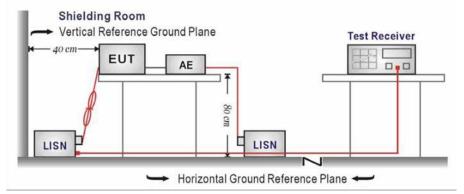
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (d	BuV)
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

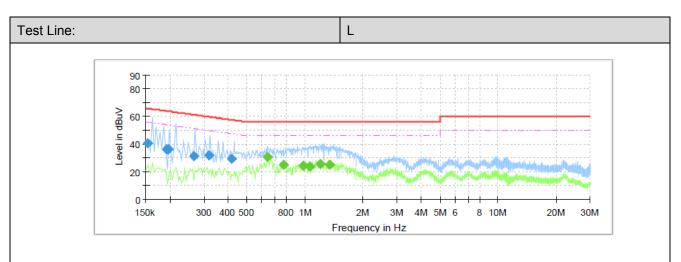
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 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

Please refer to the clause 4.2

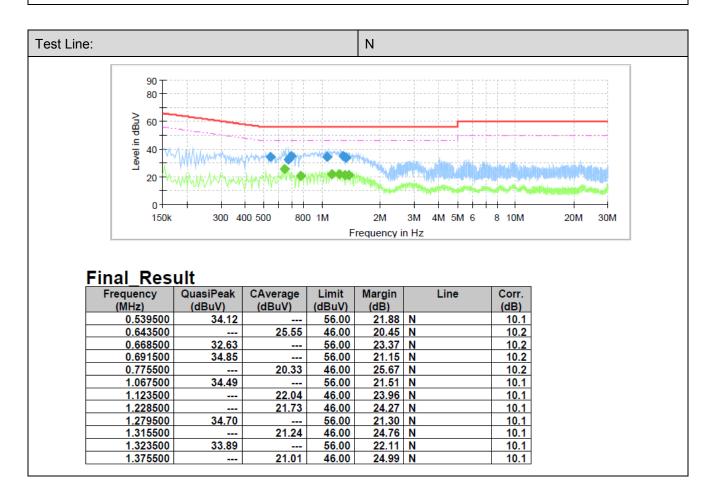
TEST RESULT

☑ Passed □ Not Applicable



Final_Result

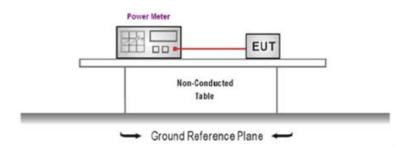
Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)
0.154000	40.43		65.78	25.35	L1	10.1
0.192500	36.09		63.93	27.84	L1	10.1
0.195500	36.15		63.80	27.65	L1	10.1
0.267500	31.24		61.20	29.96	L1	10.1
0.319500	32.12		59.72	27.60	L1	10.1
0.419500	29.57		57.46	27.88	L1	10.1
0.643500		30.39	46.00	15.61	L1	10.2
0.771500		25.07	46.00	20.93	L1	10.2
0.983500		24.60	46.00	21.40	L1	10.1
1.067500		23.47	46.00	22.53	L1	10.1
1.203500		25.57	46.00	20.43	L1	10.1
1.351500		25.28	46.00	20.72	L1	10.1



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.
- 4. Record the measurement data.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix A on the appendix report

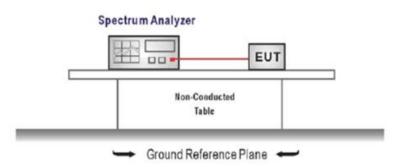
5.4. Power Spectral Density

<u>LIMIT</u>

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 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
 Place the radio in continuous transmit mode, allow the
- 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

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix B on the appendix report

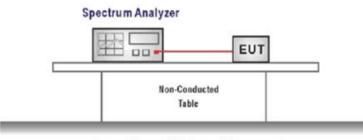
5.5. 6dB bandwidth

<u>LIMIT</u>

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



Ground Reference Plane

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 and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW \ge 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

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

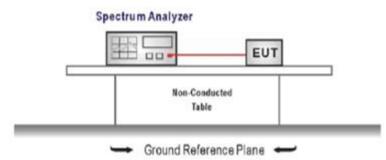
Please refer to appendix C on the appendix report

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<u>LIMIT</u>

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 and the 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

Please refer to the clause 4.2

TEST RESULT

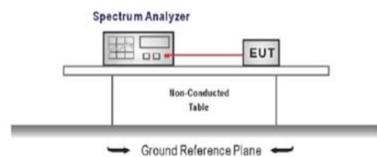
☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix D on the appendix report

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
- 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

Please refer to the clause 4.2

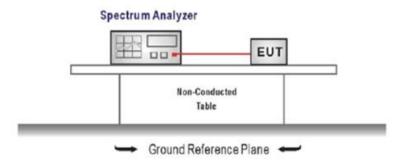
TEST DATA

Please refer to appendix E on the appendix report

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.
- 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 ≥ 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 ≥ 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.
- 5. 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

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST DATA

Please refer to appendix F on the appendix report

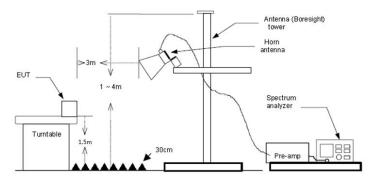
5.9. Radiated Band edge Emission

<u>LIMIT</u>

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. This is 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
 - c) 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 5.6 duty cycle.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor = 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).

	Mark 1 2	Frequency MHz 2310.00 2390.01	Reading dBuV/m 31.72 30.98	Antenna dB 27.96 27.72	Cable dB 5.95 6.19	Preamp dB 37.56 37.45	Aux dB 20.00	Level dBuV/m 48.07	Limit dBuV/m	Over limit	Remark
		2310.00	31.72	27.96	5.95	37.56				limit	
							20.00		54.00	-5.93	Average
							20.00	40.07		-6.56	
,											
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	37.36	27.96	5.95	37.56	20.00	53.71	74.00	-20.29	Peak
	2	2390.01	37.15	27.72	6.19	37.45	20.00	53.61	74.00	-20.39	Peak
Туре		802.1	1b	Test c	hannel	CH	01	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	2310.00	31.24	27.96	5.95	37.56	20.00	47.59	54.00	-6.41	Average
	2	2390.01	30.84	27.72	6.19	37.45	20.00	47.30	54.00	-6.70	Average
	da ale		Deedlar	1	c-h]-	Deserve		(11-14	0	Describ
P	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/		
	1	2310.00	37.62	27.96	5.95	37.56	20.00		74.0		
	2	2390.01	37.91	27.72	6.19	37.45	20.00		74.0	-	

Туре		802.1	1b	Test c	hannel	CH1	1	Po	larity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	Remark
	1	2483.49	38.66	27.43	6.16	37.26	20.00	54.99	74.00	-19.0	
	2	2500.00	38.43	27.40	6.15	37.26	20.00	54.72	74.00	-19.2	
	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	32.01	27.43	6.16	37.26	20.00	48.34	54.00	-5.66	Average
	2	2500.00	30.79	27.40	6.15	37.26	20.00	47.08	54.00	-6.92	Average
Туре		802.11b		Test channel		CH11		Pc	larity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	Remark t
	1	2483.49	38.61	27.43	6.16	37.26	20.00	54.94	74.00	-19.0	
	2	2500.00	37.43	27.40	6.15	37.26	20.00	53.72	74.00	-20.2	8 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	32.25	27.43	6.16	37.26	20.00	48.58	54.00	-5.42	Average
	2	2500.00	30.59	27.40	6.15	37.26	20.00	46.88	54.00	-7.12	Average

Туре		802.1	1g	Test c	hannel	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 limit	Remark
	1	2310.00	38.05	27.96	5.95	37.56	20.00	54.40	74.00	-19.60	Peak
	2	2390.01	38.20	27.72	6.19	37.45	20.00	54.66	74.00	-19.34	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	26.87	27.96	5.95	37.56	20.00	43.22		-10.78	Average
	2	2390.01	26.93	27.72	6.19	37.45	20.00	43.39	54.00	-10.61	Average
Гуре		802.1	1g	Test c	hannel	CHO)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	2310.00	37.19	27.96	5.95	37.56	20.00	53.54	74.00	-20.46	Peak
	2	2390.01	37.68	27.72	6.19	37.45	20.00	54.14	74.00	-19.86	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	2310.00	26.95	27.96	5.95	37.56	20.00	43.30	54.00	-10.70	Average
	2	2390.01	27.02	27.72	6.19	37.45	20.00	43.48	54.00	-10.52	Average

Туре		802.1	1g	Test c	hannel	CH	11	Po	larity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	29.74	27.43	6.16	37.26	20.00	46.07	54.00	-7.93	Average
	2	2500.00	27.27	27.40	6.15	37.26	20.00	43.56	54.00	-10.44	Average
	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	39.33	27.43	6.16	37.26	20.00	55.66	74.00	-18.34	Peak
	2	2500.00	37.04	27.40	6.15	37.26	20.00	53.33	74.00	-20.67	Peak
Туре		802.1	1g	Test c	hannel	CH	11	Po	larity		Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	28.96	27.43	6.16	37.26	20.00	45.29	54.00	-8.71	Average
	2	2500.00	27.08	27.40	6.15	37.26	20.00	43.37	54.00	-10.63	Average
	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	39.68	27.43	6.16	37.26	20.00	56.01	74.00	-17.99	Peak
	2	2500.00	38.14	27.40	6.15	37.26	20.00	54.43	74.00	-19.57	Peak

Туре		80)2.11n(HT20)	Test c	hannel	CH	01	P	olarity	Horizontal
	Mark	Frequen		Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2310.00		27.96	5.95	37.56	20.00	43.29		0
	2	2390.01	27.06	27.72	6.19	37.45	20.00	43.52	54.00 -10.48	3 Average
	Mark	Frequer	ncy Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lin	nit
	1	2310.00	37.51	27.96	5.95	37.56	20.00		74.00 -20	.14 Peak
	2	2390.0	J 37.40	27.72	6.19	37.45	20.00	53.86	74.00 -20	.14 Peak
Туре		80)2.11n(HT20)	Test c	hannel	CH	01	P	olarity	Vertical
	Mark	Frequen	cy Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2310.00	26.99	27.96	5.95	37.56	20.00	43.34	54.00 -10.66	Average
	2	2390.01	27.05	27,72	6.19	37.45	20.00	43.51	54.00 -10.49	Average
	Mark	Frequen	cy Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	mit
	1	2310.00		27.96	5.95	37.56	20.00		74.00 -18	.95 Peak
	2	2390.01		27.72	6.19	37.45	20.00	54.27	74.00 -19	

Туре		802.1	1n(HT20)	Test cl	hannel	CH1	1	Po	olarity		Horizontal
	Mark	Frequency	-	Antenna	Cable	Preamp			Limit		
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/		
	1	2483.49	43.98	27.43	6.16	37.26	20.0	0 60.31	74.0	0 -13.	69 Peak
	2	2500.00	38.06	27.40	6.15	37.26	20.0	0 54.35	74.0	0 -19.	65 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	29.94	27.43	6.16	37.26	20.00	46.27	54.00	-7.73	Average
	2	2500.00	27.08	27.40	6.15	37.26	20.00	43.37	54.00	-10.63	Average
Туре		802.1	1n(HT20)	Test cl	hannel	CH1	1	Po	olarity		Vertical
	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	41.26	27.43	6.16	37.26	20.00	57.59	74.00	-16.41	Peak
	2	2500.00	37.77	27.40	6.15	37.26	20.00	54.06	74.00	-19.94	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	29.46	27.43	6.16	37.26	20.00	45.79	54.00	-8.21	Average
	2	2500.00	27.10	27.40	6.15	37.26	20.00	43.39	54.00	-10.61	Average

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

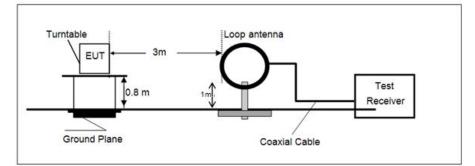
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

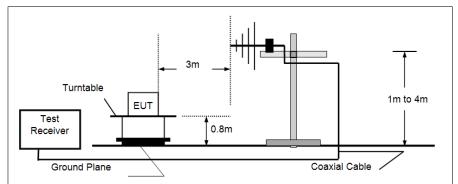
Frequency	Limit (dBuV/m @3m)	Value	
30MHz~88MHz	40.00	Quasi-peak	
88MHz~216MHz	43.50	Quasi-peak	
216MHz~960MHz	46.00	Quasi-peak	
960MHz~1GHz	54.00	Quasi-peak	
Above 1GHz	54.00	Average	
Above IGHZ	74.00	Peak	

TEST CONFIGURATION

➢ 9 kHz ~ 30 MHz



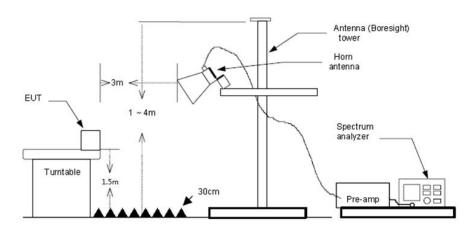
➢ 30 MHz ~ 1 GHz



Above 1 GHz

) Page:

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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.
- 6. 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.

 c) 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 5.6 duty cycle.

TEST MODE

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

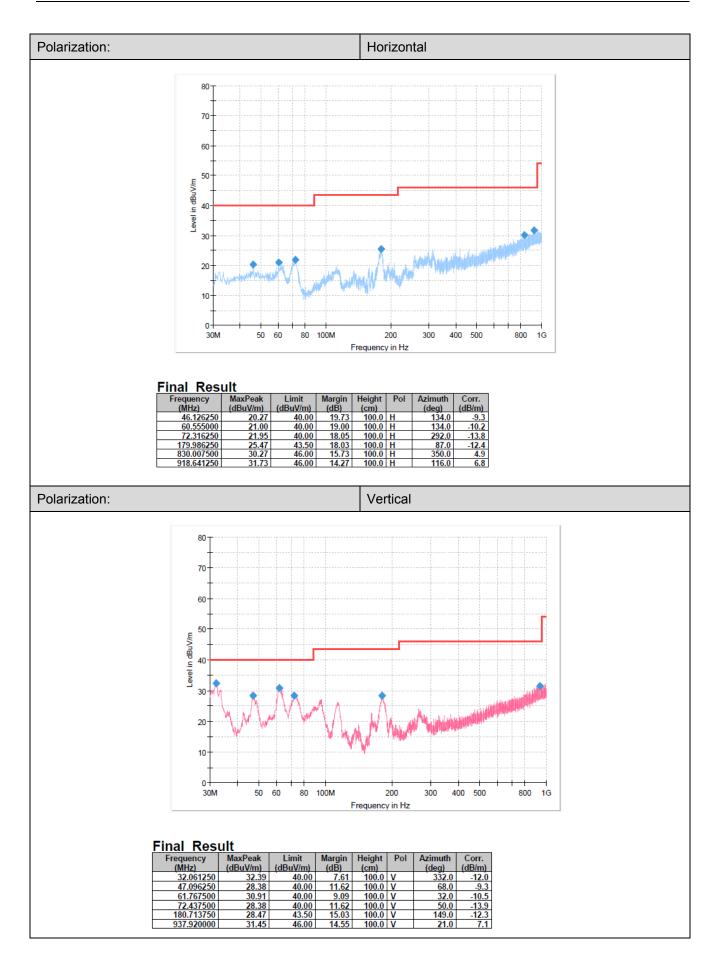
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

<u>For 9 kHz ~ 30 MHz</u>

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.



For 1 GHz ~ 25 GHz

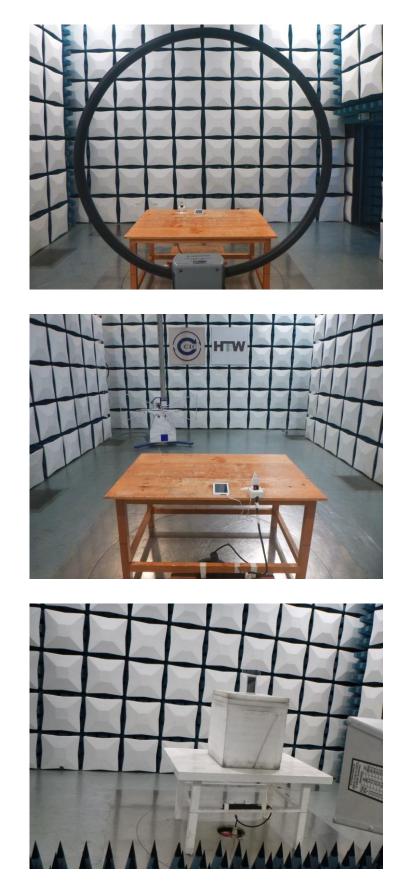
Туре		802.11b		Test chann	el	CH01		Polarity		Horizontal	
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	10.0	MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	200 F.	
	1	1326.51	37.97	26.16	4.39	36.36	32.16	74.00	-41.84	Peak	
	2	3834.51	38.91	29.74	7.95	36.93	39.67	74.00	-34.33	Peak	
	3	4821.76	46.56	31.40	9.01	35.24	51.73	74.00	-22.27	Peak	
	4	4821.76	45.11	31.40	9.01	35.24	50.28		-3.72	Average	
	5	7245.81	35.30	36.41	11.32	34.06	48.97	74.00	-25.03	Peak	
Туре		802.11b		Test chann	el	CH01		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	p Level dBuV/m		Over limit	Remark	
	1	3653.46	39.25	29.40	7.64	37.02	39.27	74.00	-34.73	Peak	
	2	4821.76	42.55	31.40	9.01	35.24	47.72	74.00	-26.28	Peak	
	3	7245.81	35.45	36.41	11.32	34.06	49.12	74.00	-24.88	Peak	
	4	9228.06	34.48	38.91	14.00	36.04	51.35	74.00	-22.65	Peak	
Туре		802.11b		Test chann	el	CH06		Polarity		Horizontal	
	Mark	Frequency	Reading	Antenna	Cable	Preamp			Over	Remark	
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit		
	1	1299.77	38.53	26.00	4.37	36.29	32.61	74.00	-41.39	Peak	
	2	3463.29	38.99	28.95	7.42	36.56	38.80	74.00	-35.20	Peak	
	3	4871.10	45.65	31.40	9.08	35.16	50.97	74.00	-23.03	Peak	
	4	9759.59	35.11	39.60	13.92	36.29	52.34	74.00	-21.66	Peak	
	5	9759.59	33.64	39.60	13.92	36.29	50.8	7 54.00	-3.13	Average	
_											
Ivne		802 11h		Test chann		CH06		Polarity		Vertical	
Туре		802.11b		Test chann	iel	CH06		Polarity		Vertical	
l ype	Mark	802.11b Frequency	Reading		el Cable		p Level	-	Over	Vertical Remark	
Гуре	Mark		Reading dBuV/m	, Antenna			p Level dBuV/m	. Limit			
Гуре	Mark 1	Frequency	-	g Antenna dB 29.95	Cable	e Preamp		. Limit			
Гуре		Frequency MHz	dBuV/m	Antenna dB	Cable dB	e Preamp dB	dBuV/m	Limit dBuV/m	limit	Remark	
Гуре	1	Frequency MHz 4024.52	dBuV/m 38.14	g Antenna dB 29.95	Cable dB 8.29	e Preamp dB 36.29	dBuV/m 40.09	Limit dBuV/m 74.00	limit -33.91	Remark Peak	
Гуре	1 2	Frequency MHz 4024.52 4871.10	dBuV/m 38.14 45.20	Antenna dB 29.95 31.40	Cable dB 8.29 9.08	e Preamp dB 36.29 35.16	dBuV/m 40.09 50.52	Limit dBuV/m 74.00 74.00	limit -33.91 -23.48	Remark Peak Peak	
Туре	1 2 3	Frequency MHz 4024.52 4871.10 7319.96	dBuV/m 38.14 45.20 36.06	Antenna dB 29.95 31.40 36.44	Cable dB 8.29 9.08 11.40 13.93	Preamp dB 36.29 35.16 34.10	dBuV/m 40.09 50.52 49.80	Limit dBuV/m 74.00 74.00 74.00	limit -33.91 -23.48 -24.20	Remark Peak Peak Peak	
	1 2 3	Frequency MHz 4024.52 4871.10 7319.96 9685.35	dBuV/m 38.14 45.20 36.06	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna	Cable dB 8.29 9.08 11.40 13.93	Pream; dB 36.29 35.16 34.10 36.65 CH11	dBuV/m 40.09 50.52 49.80 51.03	Limit dBuV/m 74.00 74.00 74.00 74.00	limit -33.91 -23.48 -24.20	Remark Peak Peak Peak Peak	
	1 2 3 4	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency	dBuV/m 38.14 45.20 36.06 34.21 Reading	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna	Cable dB 8.29 9.08 11.40 13.93 mel Cable	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp	dBuV/m 40.09 50.52 49.80 51.03 Level	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit	limit -33.91 -23.48 -24.20 -22.97 Over	Remark Peak Peak Peak Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m	limit -33.91 -23.48 -24.20 -22.97 Over limit	Remark Peak Peak Peak Horizontal Remark	
	1 2 3 4 Mark 1	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB 4.38	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak	
	1 2 3 4 Mark 1 2	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB 4.38 9.20	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15	Remark Peak Peak Peak Horizontal Remark Peak	
	1 2 3 4 Mark 1 2 3	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB 4.38 9.20 9.20	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 54.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Average	
	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 7394.88	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 36.59	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB 4.38 9.20 9.20 11.47	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 34.02	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 54.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77 -23.96	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Average Peak	
	1 2 3 4 Mark 1 2 3 4 5	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 7394.88 9859.47	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 36.59 39.50	Cable dB 8.29 9.08 11.40 13.93 nel Cable dB 4.38 9.20 9.20 11.47 13.94 13.94	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 34.02 36.65	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 54.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77 -23.96 -3.69	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Average Peak Average	
Туре	1 2 3 4 Mark 1 2 3 4 5	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 9859.47 802.11b Frequency	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 39.50 39.50 Test chann Antenna	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 9.20 9.20 11.47 13.94 13.94 13.94 Cable	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 34.02 36.65 36.65 CH11 Preamp	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31 52.38 Level	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 54.00 74.00 54.00 74.00 24.00 74.00	limit -33.91 -23.48 -24.20 -22.97 0ver limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 0ver	Remark Peak Peak Peak Peak Horizontal Remark Peak Average Peak Average Peak Average Peak	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 802.11b Frequency MHz	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 39.50 39.50 Test chann Antenna dB	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 9.20 9.20 11.47 13.94 13.94 13.94 cable dB	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 34.02 36.65 36.65 CH11 Preamp dB	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 52.38 Level dBuV/m	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 54.00 74.00 54.00 74.00 24.00 74.00 Limit dBuV/m	limit -33.91 -23.48 -24.20 -22.97 0ver limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 0ver limit	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Average Peak Average Peak Vertical Remark	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark 1	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 802.11b Frequency MHz 1201.15	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m 39.06	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 39.50 39.50 Test chann Antenna dB 25.61	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 9.20 9.20 9.20 9.20 11.47 13.94 13.94 13.94 Cable dB 4.10	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 35.20 34.02 36.65 36.65 CH11 Preamp dB 36.64	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31 52.38 Level dBuV/m 32.13	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 54.00 74.00 54.00 74.00 Limit dBuV/m 74.00	limit -33.91 -23.48 -24.20 -22.97 0ver limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 0ver limit -41.87	Remark Peak Peak Peak Peak Horizontal Remark Peak Average Peak	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark 1 2	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 802.11b Frequency MHz 1201.15 3480.97	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m 39.06 38.69	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 39.50 39.50 Test chann Antenna dB 25.61 29.02	Cable dB 8.29 9.08 11.40 13.93 14.40 13.93 14.40 Cable dB 4.38 9.20 9.20 9.20 9.20 9.20 9.20 9.20 9.20	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 35.20 34.02 36.65 36.65 CH11 Preamp dB 36.64 36.59	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31 52.38 Level dBuV/m 32.13 38.55	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 54.00 74.00 54.00 74.00 Limit dBuV/m 74.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 Over limit -41.87 -35.45	Remark Peak Peak Peak Peak Peak Horizontal Remark Peak Average Peak	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark 1 2 3	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 802.11b Frequency MHz 1201.15 3480.97 4920.96	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m 39.06 38.69 46.36	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 31.47 39.50 Test chann Antenna dB 25.61 29.02 31.44	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 9.20 11.47 13.94 13.94 13.94 Cable dB 4.10 7.43 9.17	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 35.20 34.02 36.65 36.65 CH11 Preamp dB 36.64 36.64 36.59 35.21	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31 52.38 Level dBuV/m 32.13 38.55 51.76	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 Over limit -41.87 -35.45 -22.24	Remark Peak Peak Peak Peak Peak Horizontal Remark Peak Average Peak Average Peak Average Peak Average Peak Average Peak Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark 1 2 3 4	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 7394.88 9859.47 802.11b Frequency MHz 1313.08 4933.50 7394.88 9859.47 802.11b Frequency MHz 1201.15 3480.97 4920.96 4920.96	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m 39.06 38.69 46.36 45.22	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 31.47 39.50 39.50 Test chann Antenna dB 25.61 29.02 31.44 31.44	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 11.47 13.94 13.94 13.94 Cable dB 4.10 7.43 9.17 9.17	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 35.20 34.02 36.65 36.65 CH11 Preamp dB 36.64 36.59 35.21 35.21	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 52.38 Level dBuV/m 32.13 38.55 51.76 50.62	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limit -33.91 -23.48 -24.20 -22.97	Remark Peak Peak Peak Peak Peak Peak Horizontal Remark Peak Average Peak Average Peak Vertical Remark Peak Peak Peak Average	
Туре	1 2 3 4 Mark 1 2 3 4 5 6 Mark 1 2 3	Frequency MHz 4024.52 4871.10 7319.96 9685.35 802.11b Frequency MHz 1313.08 4933.50 4933.50 4933.50 7394.88 9859.47 9859.47 802.11b Frequency MHz 1201.15 3480.97 4920.96	dBuV/m 38.14 45.20 36.06 34.21 Reading dBuV/m 39.09 46.38 44.76 36.00 33.52 35.59 Reading dBuV/m 39.06 38.69 46.36	Antenna dB 29.95 31.40 36.44 39.54 Test chann Antenna dB 26.08 31.47 31.47 31.47 31.47 31.47 39.50 Test chann Antenna dB 25.61 29.02 31.44	Cable dB 8.29 9.08 11.40 13.93 el Cable dB 4.38 9.20 9.20 9.20 11.47 13.94 13.94 13.94 Cable dB 4.10 7.43 9.17	Pream dB 36.29 35.16 34.10 36.65 CH11 Preamp dB 36.33 35.20 35.20 35.20 34.02 36.65 36.65 CH11 Preamp dB 36.64 36.64 36.59 35.21	dBuV/m 40.09 50.52 49.80 51.03 Level dBuV/m 33.22 51.85 50.23 50.04 50.31 52.38 Level dBuV/m 32.13 38.55 51.76	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limit -33.91 -23.48 -24.20 -22.97 Over limit -40.78 -22.15 -3.77 -23.96 -3.69 -21.62 Over limit -41.87 -35.45 -22.24	Remark Peak Peak Peak Peak Peak Horizontal Remark Peak Average Peak Average Peak Average Peak Average Peak Average Peak Peak Peak Peak Peak	

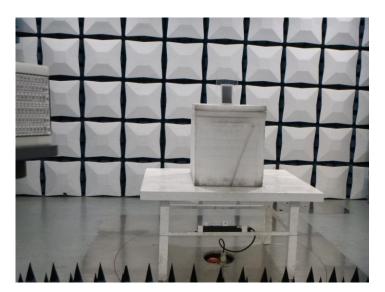
Туре		802.11g		Test channe	el	CH01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Level dBuV/m		Over limit	Remark
	1	4366.07	36.01	30.53	8.59	36.16	38.97	74.00	-35.03	Peak
	2	5674.90	35.95	31.90	9.83	34.95	42.73	74.00	-31.27	Peak
	3	7981.72	32.75	37.03	12.16	33.31	48.63	74.00	-25.37	Peak
	4	9685.35	33.25	39.54	13.93	36.65	50.07	74.00	-23.93	Peak
Туре		802.11g		Test channe	el	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Level dBuV/m		Over limit	Remark
	1	4107.32	37.36	30.00	8.38	36.30	39.44	74.00	-34.56	Peak
	2	5164.81	35.93	31.91	9.30	35.44	41.70	74.00	-32.30	Peak
	3	7566.25	33.08	36.47	11.63	33.44	47.74	74.00	-26.26	Peak
	4	8973.25	34.15	37.89	14.06	35.95	50.15	74.00	-23.85	Peak
Туре		802.11g		Test channe	el	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	e Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	4871.10	38.83	31.40	9.08	35.16	44.15	74.00	-29.85	Peak
	2	7319.96	33.99	36.44	11.40	34.10	47.73	74.00	-26.27	Peak
	3	9809.40	33.80	39.58	13.91	36.19	51.10	74.00	-22.90	Peak
	4	11486.41	32.49	40.86	14.48	36.38	51.45	74.00	-22.55	Peak
Туре		802.11g		Test channe	el	CH06		Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	e Preamp	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	3561.64	38.39	29.32	7.54	36.83	38.42	74.00	-35.58	Peak
	2	4871.10	37.57	31.40	9.08	35.16	42.89	74.00	-31.11	Peak
	-									
	3	8042.90	33.15	37.19	12.20	33.31	49.23	74.00	-24.77	Peak
	4	8042.90 9710.03	33.15 33.67	37.19 39.60	12.20 13.93	33.31 36.53	49.23 50.67	74.00 74.00	-24.77 -23.33	Peak Peak
Туре					13.93					
Туре		9710.03 802.11g Frequency	33.67 Reading	39.60 Test chann Antenna	13.93 el Cable	36.53 CH11 Preamp	50.67 Level	74.00 Polarity Limit	-23.33 Over	Peak
Туре	4 Mark	9710.03 802.11g Frequency MHz	33.67 Reading dBuV/m	39.60 Test chann Antenna dB	13.93 el Cable dB	36.53 CH11 Preamp dB	50.67 Level dBuV/m	74.00 Polarity Limit dBuV/m	-23.33 Over limit	Peak Horizontal Remark
Туре	4 Mark 1	9710.03 802.11g Frequency MHz 4920.96	33.67 Reading dBuV/m 40.41	39.60 Test chann Antenna dB 31.44	13.93 el Cable dB 9.17	36.53 CH11 Preamp dB 35.21	50.67 Level dBuV/m 45.81	74.00 Polarity Limit dBuV/m 74.00	-23.33 Over limit -28.19	Peak Horizontal Remark Peak
Туре	4 Mark 1 2	9710.03 802.11g Frequency MHz 4920.96 8022.46	33.67 Reading dBuV/m 40.41 33.14	39.60 Test chann Antenna dB 31.44 37.14	13.93 el Cable dB 9.17 12.21	36.53 CH11 e Preamp dB 35.21 33.31	50.67 Level dBuV/m 45.81 49.18	74.00 Polarity Limit dBuV/m 74.00 74.00	-23.33 Over limit -28.19 -24.82	Peak Horizontal Remark Peak Peak
Туре	4 Mark 1	9710.03 802.11g Frequency MHz 4920.96	33.67 Reading dBuV/m 40.41	39.60 Test chann Antenna dB 31.44	13.93 el Cable dB 9.17	36.53 CH11 Preamp dB 35.21	50.67 Level dBuV/m 45.81	74.00 Polarity Limit dBuV/m 74.00	-23.33 Over limit -28.19	Peak Horizontal Remark Peak
Туре	4 Mark 1 2 3	9710.03 802.11g Frequency MHz 4920.96 8022.46 9759.59	33.67 Reading dBuV/m 40.41 33.14 34.04	39.60 Test chann dB 31.44 37.14 39.60	13.93 el Cable dB 9.17 12.21 13.92 14.54	36.53 CH11 Preamp dB 35.21 33.31 36.29	50.67 Level dBuV/m 45.81 49.18 51.27	74.00 Polarity Limit dBuV/m 74.00 74.00 74.00	-23.33 Over limit -28.19 -24.82 -22.73	Peak Horizontal Remark Peak Peak Peak Peak
	4 Mark 1 2 3	9710.03 802.11g Frequency MHz 4920.96 8022.46 9759.59 10916.26 802.11g Frequency	33.67 Reading dBuV/m 40.41 33.14 34.04 32.83 Reading	39.60 Test channe dB 31.44 37.14 39.60 40.60 Test channe Antenna	13.93 el Cable dB 9.17 12.21 13.92 14.54 el Cable	36.53 CH11 Preamp dB 35.21 33.31 36.29 36.74 CH11 CH11 Preamp	50.67 Level dBuV/m 45.81 49.18 51.27 51.23 Level	74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit	-23.33 Over limit -28.19 -24.82 -22.73 -22.77 Over	Peak Horizontal Remark Peak Peak Peak Peak Peak
	4 Mark 1 2 3 4 Mark	9710.03 802.11g Frequency MHz 4920.96 8022.46 9759.59 10916.26 802.11g Frequency MHz	33.67 Reading dBuV/m 40.41 33.14 34.04 32.83 Reading dBuV/m	39.60 Test channe dB 31.44 37.14 39.60 40.60 Test channe dB	13.93 el Cable dB 9.17 12.21 13.92 14.54 el Cable dB	36.53 CH11 Preamp dB 35.21 33.31 36.29 36.74 CH11 CH11 Preamp dB	50.67 Level dBuV/m 45.81 49.18 51.27 51.23 Level dBuV/m	74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Rolarity	-23.33 Over limit -28.19 -24.82 -22.73 -22.77 Over limit	Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Remark
	4 Mark 1 2 3 4 Mark 1	9710.03 802.11g Frequency MHz 4920.96 8022.46 9759.59 10916.26 802.11g Frequency MHz 4014.29	33.67 Reading dBuV/m 40.41 33.14 34.04 32.83 Reading dBuV/m 37.51	39.60 Test chann dB 31.44 37.14 39.60 40.60 Test chann dB 29.93	13.93 el Cable dB 9.17 12.21 13.92 14.54 el Cable dB 8.28	36.53 CH11 Preamp dB 35.21 33.31 36.29 36.74 CH11 CH11 Preamp dB 36.31	50.67 Level dBuV/m 45.81 49.18 51.27 51.23 Level dBuV/m 39.41	74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00	-23.33 Over limit -28.19 -24.82 -22.73 -22.77 Over limit -34.59	Peak Horizontal Remark Peak Peak Peak Peak Vertical Remark Peak
	4 Mark 1 2 3 4 Mark	9710.03 802.11g Frequency MHz 4920.96 8022.46 9759.59 10916.26 802.11g Frequency MHz	33.67 Reading dBuV/m 40.41 33.14 34.04 32.83 Reading dBuV/m	39.60 Test channe dB 31.44 37.14 39.60 40.60 Test channe dB	13.93 el Cable dB 9.17 12.21 13.92 14.54 el Cable dB	36.53 CH11 Preamp dB 35.21 33.31 36.29 36.74 CH11 CH11 Preamp dB	50.67 Level dBuV/m 45.81 49.18 51.27 51.23 Level dBuV/m	74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Rolarity	-23.33 Over limit -28.19 -24.82 -22.73 -22.77 Over limit	Peak Horizontal Remark Peak Peak Peak Peak Vertical Remark Peak

Туре		802.11n(HT20)	Test chanr	nel	CH01		Polarity		Horizontal
	Mark	Frequency	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	3681.47	38.53	29.40	7.67	37.04	38.56	74.00	-35.44	Peak
	2	4821.76	38.50	31.40	9.01	35.24	43.67	74.00	-30.33	Peak
	3	7961.43	33.27	36.95	12.09	33.32	48.99	74.00	-25.01	Peak
	4	9734.78	33.39	39.60	13.92	36.41	50.50	74.00	-23.50	Peak
Туре		802.11n(HT20)	Test chanr	nel	CH01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Pream dB	p Level dBuV/m		Over limit	Remark
	1	4278.06	37.89	30.26	8.47	36.11	40.51	74.00	-33.49	
	2	7154.17	33.95	36.32	11.21	33.96	47.52	74.00	-26.48	
	3	8042.90	33.85	37.19	12.20	33.31	49.93	74.00	-24.07	Peak
	4	9759.59	33.22	39.60	13.92	36.29	50.45	74.00	-23.55	Peak
Туре		802.11n(HT20)	Test chanr	nel	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	TIGH IS	MHz	dBuV/m		dB	dB	dBuV/m			Number N
	1	3472.12	39.25	28.99	7.43	36.58	39.09	74.00	-34.91	Peak
	2	4871.10	36.92	31.40	9.08	35.16	42.24	74.00	-31.76	Peak
	3	7781.10	32.56	36.56	11.79	33.19	47.72	74.00	-26.28	Peak
	4	9181.20	34.11	38.72	14.07	35.96	50.94	74.00	-23.06	Peak
Туре		802.11n(HT20)	Test chanr	nel	CH06		Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	THAT IS	MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	Remark.
	1	3973.62	39.09	29.90	8.18	36.43	40.74	74.00	-33.26	Peak
	2	5689.36	34.94	31.90	9.85	34.93	41.76	74.00	-32.24	Peak
	3	8104.56	32.78	37.18	12.18	33.33	48.81	74.00	-25.19	Peak
	4	9759.59	33.47	39.60	13.92	36.29	50.70	74.00	-23.30	Peak
Туре		802.11n(HT20)	Test chanr	nel	CH11		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	4014.29	37.24	29.93	8.28	36.31	39.14	74.00	-34.86	Peak
	2	5086.52	35.52	32.20	9.36	35.46	41.62	74.00	-32.38	Peak
	3	8022.46	32.98	37.14	12.21	33.31	49.02	74.00	-24.98	Peak
	4	9710.03	34.34	39.60	13.93	36.53	51.34	74.00	-22.66	Peak
Туре		802.11n(HT20)	Test chanr	nel	CH11		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	4712.55	35.90	31.40	9.39		41.01	74.00	-32.99	Peak
	2	8042.90	32.23	37.19	12.20	33.31	48.31	74.00	-25.69	Peak
	3	9710.03	33.53	39.60	13.93	36.53	50.53	74.00	-23.47	Peak
	4	10860.83	32.76	40.48	14.52	36.78	50.98	74.00	-23.02	Peak
	4	10000.00	32.70	40.40	14.32	30.70	10.30	14.00	-23.02	redk

6. TEST SETUP PHOTOS

Radiated Emission





AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTEW22080318

8. APPENDIX REPORT

APPENDIX REPORT

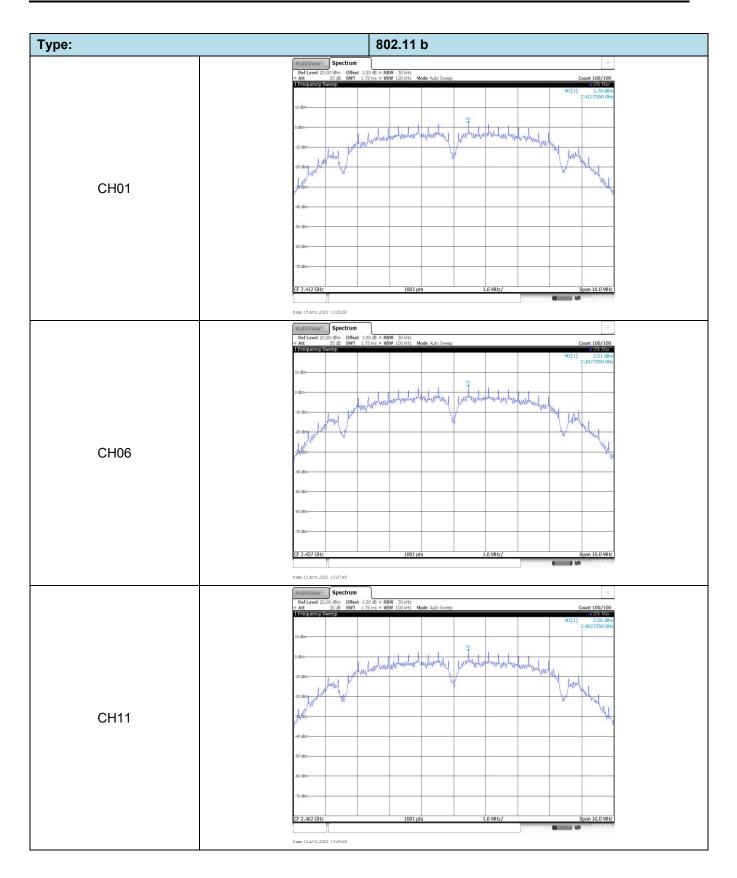
Project No.	SHT2207115001EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT22071150003	Model No.	Star9 3G
Start test date	2022-08-15	Finish date	2022-08-15
Temperature	25.7 ℃	Humidity	31%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zheo

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

Туре	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result	
	01	15.33	12.84			
802.11b	06	16.43	13.96	≤ 30.00	Pass	
	11	16.22	13.75			
	01	15.12	12.20			
802.11g	06	16.28	13.57	≤ 30.00	Pass	
	11	15.87	13.06			
000.11m	01	15.22	13.36			
802.11n (HT20)	06	16.34	14.51	≤ 30.00	Pass	
(1120)	11	16.19	14.42			

Appendix B: Power Spectral Density

Туре	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result	
	01	1.78			
802.11b	06	2.51	≤8.00	Pass	
	11	2.56			
	01	-10.22			
802.11g	06	-8.33	≤8.00	Pass	
	11	-7.62			
	01	-9.21			
802.11n(HT20)	06	-9.32	≤8.00	Pass	
	11	-8.33			

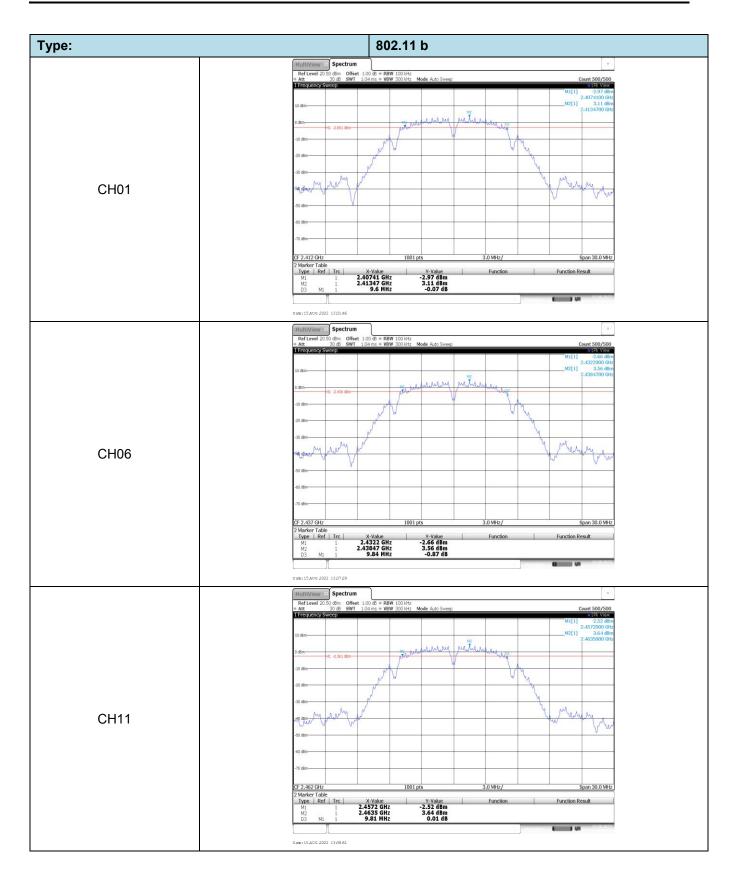


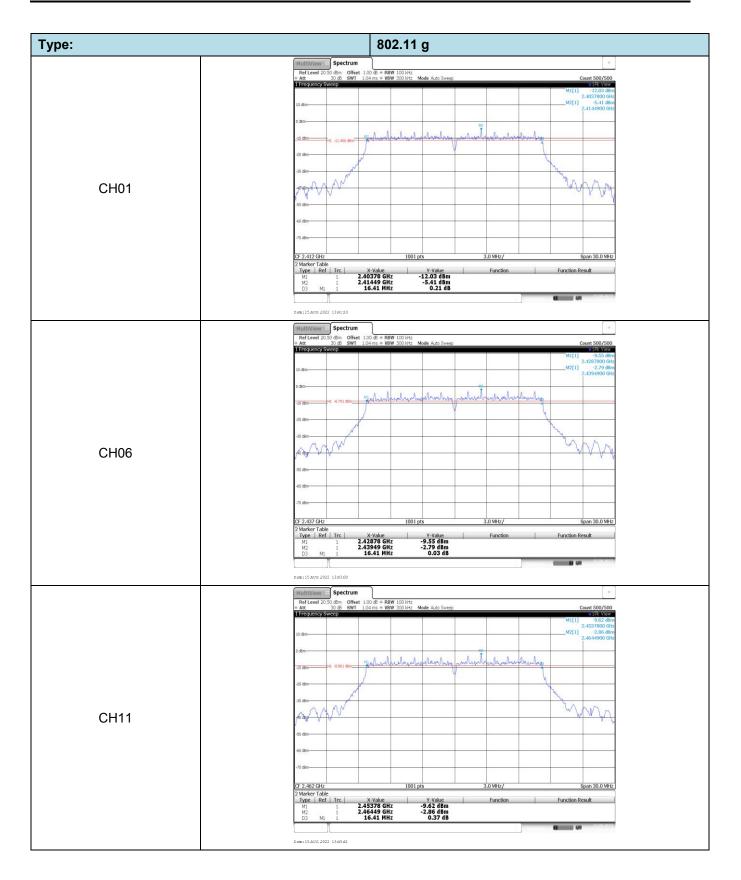
802.11 g Type: 20.00 dBm Offset 30 dB SWT 1.00 dB = RBW 30 kHz 9 µs (~15 ms) = VBW 100 kHz Mode Auto FFT int 100/100 where we wanted and the second second and the second secon k CH01 mart humpoh 2.412 GH 1001 p Date:15AUG 2022 13:41:26 MultiView C Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Frequency Sweep dB = RBW 30 kHz ns) = VBW 100 kHz Mode Auto FFT Count 100/100 MANN CH06 My Mar Wash 1001 p 5 MHz 25.0 MH - 2.437 GH Date:15.AUG 2022 13:44:11 MultiView E Spectrum Ref Level 20.00 dbm Offset Att 30 db SWT idB = RBW 30 kHz ms) = VBW_100 kHz Mode Auto FFT nt 100/100 warman warman warman warman N CH11 Whyth month 1001 n 5 MHz F 2.462 GH 25.0 MH Date:15.AUG 2022 13:45:58

802.11n(HT20) Type: Spectrum 1.00 dB = RBW 30 kHz 9 µs (~15 ms) = VBW 100 kHz Mode Auto FFT nt 100/100 wanter and many many many many many many many and CH01 N hum A. 1001 2.412 GF Date: 15 AUG 2022 13:50:52 MultiView C Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Frequency Sweep dB = RBW 30 kHz ns) = VBW 100 kHz Mode Auto FFT Count 100/100 and the second have a second second North h, CH06 wy W Wind 1001 c 5 MHz 2.437 G 25.0 MH; Date:15.AUG 2022 13:52:41 MultiView E Spectrum Ref Level 20.00 dbm Offset Att 30 db SWT dB = RBW 30 kHz ns) = VBW 100 kHz Mode Auto FFT int 100/100 manufarmenter and with a present and and the second second diam CH11 M p.M. MAN 1001 r MLIZ F 2,462 GH 25.0 MH Date:15.AUG 2022 13:54:34

Appendix C: 6dB bandwidth

Туре	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
	01	9.60		
802.11b	06	9.84	≥0.5	Pass
	11	9.81		
	01	16.41		
802.11g	06	16.41	≥0.5	Pass
	11	16.41		
	01	17.61		
802.11n(HT20)	06	17.67	≥0.5	Pass
	11	17.64		





802.11n(HT20) Type: Spectrum 5.50 dBm Offset 30 dB SWT = RBW 100 kHz = VBW 300 kHz Mode áu Att Frequency Swe 41. where CH01 WWW Bur 1001 pt F 2.412 GH 0 MHz 30.0 MH;
 Arristonia

 Zimmer Table

 Type
 Ref
 Trc

 M1
 1

 M2
 1

 D3
 M1
 1
 X-Value 2.40318 GHz 2.41449 GHz 17.61 MHz Y-Value -10.08 dBm -4.04 dBm -0.23 dB Funct Function Result COLUMN 2 IS NOT ame:15.AUG 2022 13:50:30 w 🗄 Spectrum Ref Level 20.50 dBm Offset Att 30 dB SWT RBW Mode Auto Sv t 500/50 a land we love bought on her and we have been break on the same CH06 1001 pt F 2.437 GH .0 MHz/ an 30.0 MH
 Marker Table

 Type
 Ref
 Trc

 M1
 1

 M2
 1

 D3
 M1
 1
 Function Result Function X-Value 2.42815 GHz 2.43949 GHz 17.67 MHz Y-Value -10.58 dBm -3.40 dBm 0.27 dB Date:15.AUG 2022 13:52:25 AultiView Spectrum Ref Level 20.50 dBm Offset Att 30 dB SWT Frequency Sweep Offset RBW Mode Auto Sw a Mary Lance Julie An Munham . Alexandre whereh CH11
 F 2.462 GHz

 Marker Table

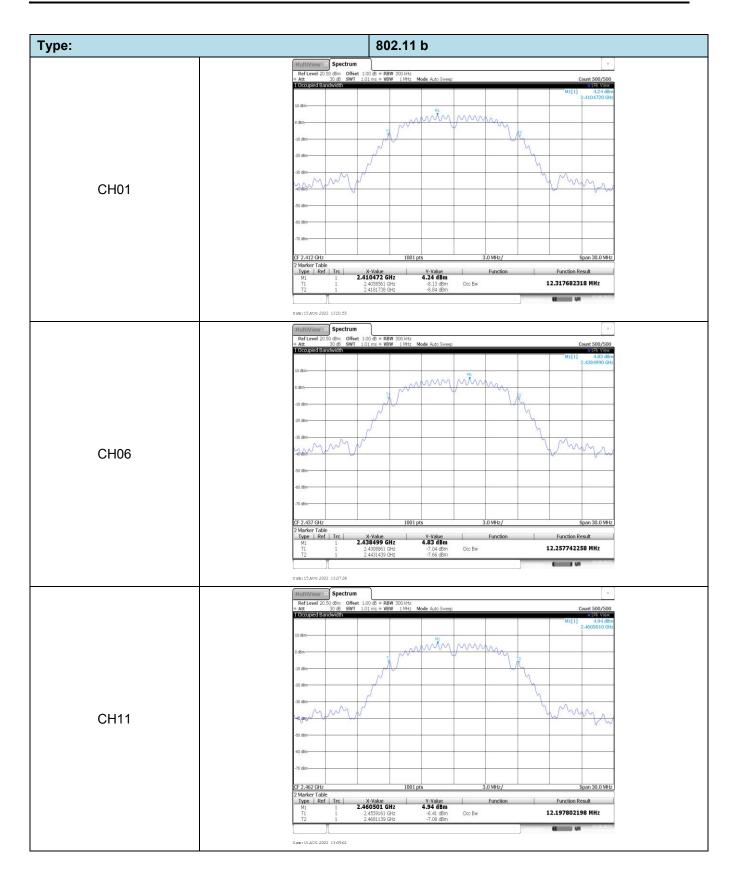
 Type
 Ref
 Trc

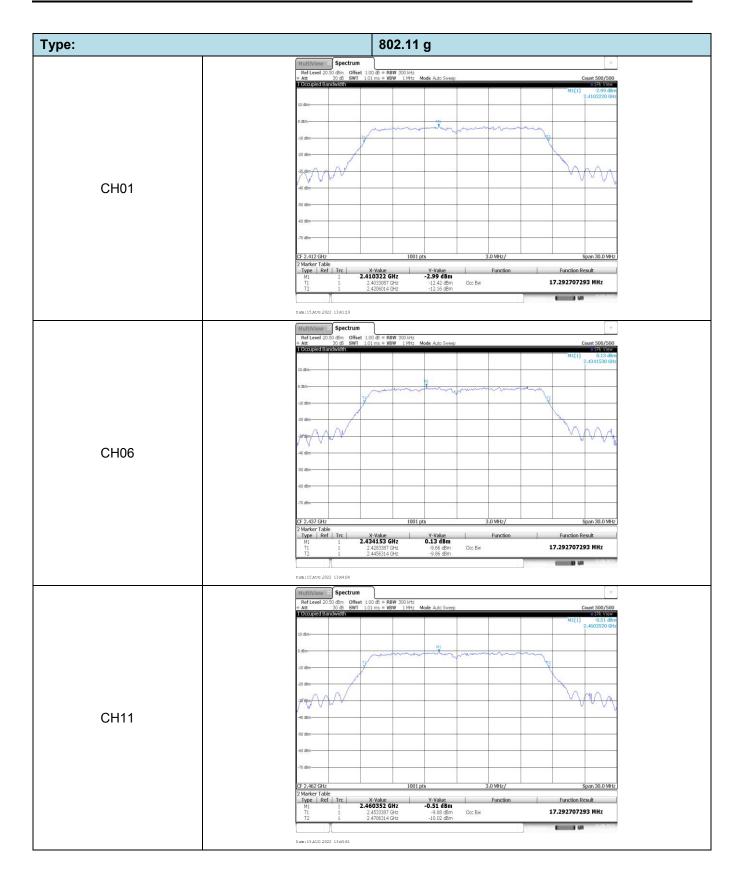
 M1
 1

 M2
 2
 1001 pts 0 MHz Span 30.0 MHz X-Value 2.45318 GHz 2.46449 GHz 17.64 MHz Y-Value -9.21 dBm -3.15 dBm -0.92 dB Function Result 10 100 Date:15.AUG 2022 13:54:18

Appendix D: 99% Occupied Bandwidth

Туре	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
	01	12.32		
802.11b	06	12.26	-	Pass
	11	12.20		
	01	17.29		
802.11g	06	17.29	-	Pass
	11	17.29		
	01	17.92		
802.11n(HT20)	06	17.89	-	Pass
	11	17.89		





ype:	802.11n(HT20)
	MultiView 🔛 Spectrum
	Ref Level 20.50 dBm Offset 1:00 dB = RBW 300 H± Count So0/S00 = Att 30 dB SWT 101 ms = VBW 1Mtz Mode Auto Sweep: Count So0/S00 T Occupied Bandwith ■ IBW View ■ IBW View ■ IBW View
	M1[1] -1.01 dBm 2.4152670 GHz
	10 dm
	0.85 Junior Manual Contraction of the contraction o
	-10 dm
	-20 dbm
	18 CONTRACTOR OF THE STATE OF T
CH01	-40 din
	40 dbn
	40 don
	-70 681-
	OF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz
	2 Marker Table
	Type Ref Trc X-Value Y-Value Function Function Result M1 2.415267 GHz -1.01 dBm 10.1 dBm 17.922077922 MHz T1 1 2.405039 GHz -8.65 dBm Occ Bw 17.922077922 MHz T2 1 2.405061 GHz -8.79 dBm Occ Bw 17.922077922 MHz
	12 1 2.420961 GHz8.79 dbm
	Dam:15.AUG 2022 13:50:45
	MultiView E Spectrum
	Bef Level 20:50 dBm Offset: 10:0 dBm BBW 300.6Hz Count 500/500 n. Att 30:05 SWI 1:01 ms VBW 1/Mtz 1 OCcupic3 Band/Wrdth 3150/1500 3150/1500
	2.4402370 Gt-
	NL NL
	ese for and many and
	-10 dec.
	-20 dbm
	20 cm / Vand
CH06	-47 dbn
	-50 @n
	40.000
	-10 dec-
	OF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz
	2 Morker Table
	M1 1 2.44206297 GHz -0.39 dBm Doc Bw 17.892107892 MHz T1 1 2.420669 GHz -8.13 dBm Doc Bw 17.892107892 MHz T2 1 2.426661 GHz -7.56 dBm Doc Bw 17.892107892 MHz
	Date:15.405.2022 13:52:04
	INUITVIEW Spectrum Ref Level 20:0 dbm Offset 1:00 db eRBW 300 Htz w Att 30:08 SWT 1:01 ms = VBW 1Mtz Count 500/500
	"Aft Tocopied Bendwidtin Tocopied Bendwidtin 10 mm + wew 104mt Mode Auto sweep 10 weep 10 weep 10 weep 10 weep 10 weep 10 weep 10 weep 10 weep
	2.452670 GHz
	0.550 History And
	18 dm
	-20 dbn
	- man
CH11	-40.000
	-00 dbm
	40 dbs
	-71 da-
	CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz
	Z Marker Table X-Value Y-Value Function Function Result Type Ref Trc X-Value -0.25 dBm Function Function Result M1 1 2.465267 GHz -0.25 dBm Occ Bw 17.892107892 MHz T1 1 2.435069 GHz -7.50 dBm Occ Bw 17.892107892 MHz T2 1 2.47066 GHz -8.07 dBm Occ Bw 17.892107892 MHz
	M1 1 2.455267 GHz -0.25 dBm T1 1 2.4530689 GHz -7.50 dBm Doc Bw 17.892107892 MHz T2 1 2.470661 GHz -8.07 dBm Doc Bw 17.892107892 MHz
	T2 1 2.470961 GHz8.07 dBm

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.40	8.41	99.9%	0.1
11g	2437	1.39	1.42	97.9%	0.7
11n20	2437	1.17	1.20	97.5%	0.9

Ref Le SGL 11b F 2.437 GHz Marker Table Type Ref Trc M1 1 D1 M1 1 D2 M1 1 8000 pts 2.0 ms X-Value 7.30594 ms 8.39933 ms 8.40884 ms Y-Value -1.35 dBm 6.14 dB -23.96 dB n Result Date: 15 AUG 2022 13:36:55 00 dBm = RBW 1 MHz 40 dB = SWT 10 ms = VBW 1 MHz 1[1] 11g F 2.437 GHz Marker Table Type Ref Trc 8000 pts 1.0 ms/ X-Value -132.49 μs 1.38517 ms 1.42143 ms Y-Value -16.87 dBm 14.84 dB 0.73 dB Function Result Function M1 M1 100 Date:15.AUG 2022 13:42:49

Appendix E: Duty Cycle

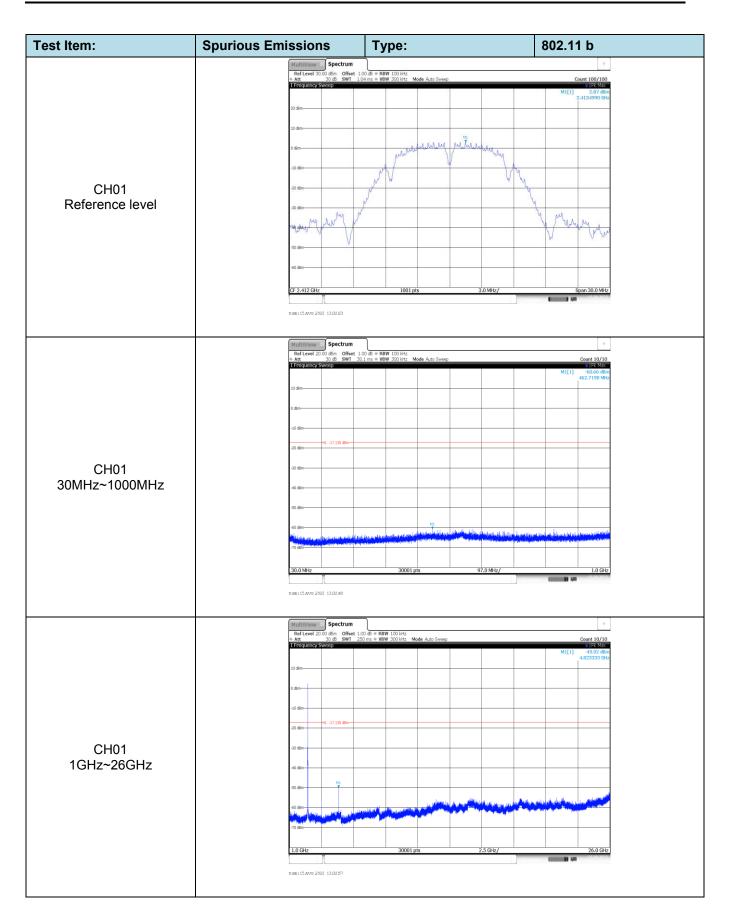
	MultiView Spectrum RefLevel 30.00 dbm = RBW 1 MHz * Att 40 db = SWT 10 ms = VBW 1 MHz TRG:MU + WEW 1 MHz	SGL
	2 gen	• 16k City M1[1] -16.34 dBm 476.33 µs 01[1] 12.44 dB 1.16640 ms
	a gata a lana panahanan kanahanan ini turun kanahanan ini turun kanahanan ini turun kanahan kanahan jatu da pa Anahan	na phar <mark>thainnean</mark> na phar bhainnean
11n20	-32 dan	
	-4 dan-	
	Trip 8000 pts CF 2,437 GHz 8000 pts 2 Marker Table V-Value Varker Table V-Value Varker Table Function Mil 1 476.33 pts -16.5.34 dBm	1.0 ms/
	Mi i 476.33 µs -16.34 48m Di Mi i 1.1664 ms 12.44 48 D2 Mi i 1.20255 ms -0.44 48	110 (M) - 15 (185-192)

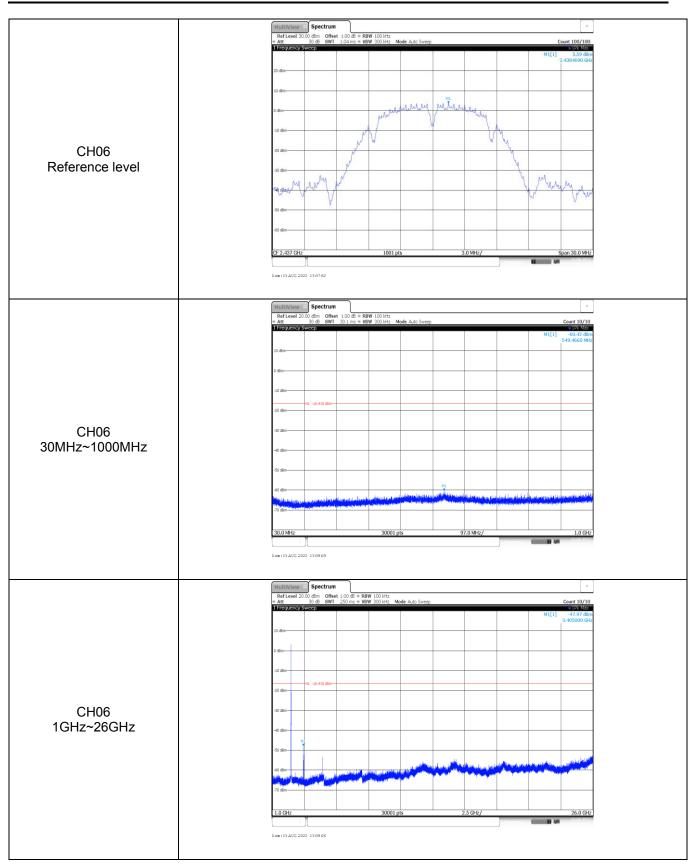
est Item:	Bandedge	Туре:	802.11 b
	U	MultiView 🗄 Spectrum	Ψ
		Ref Level 20.00 dbm Offset 1:00 db PBW 100 kHz a Att 30 db SWT 1:12 ms = VBW 300 kHz Mode Auto Sweep 1 Frequency Sydep 1 </td <td>Count 300/300 19k Mex</td>	Count 300/300 19k Mex
		10 dām-	MI[1] 2.72 dBm 2.413440 GHz
		0 d8m	2:400000 GHz
		-10 dBm	
		-20 dbm	
		-30 dem	
		-40 dBm	h N N
CH01		-50 dgm	
		-60 dkm	who we
		, 66 BBC In Strategy Lange Back Back State and a stranger at the strategy at the morphism of the State State State - 76 BBC	Augurer -
		2 Marker Table	.2 MHz/ 2.422 GHz Function Function Result
		M1 1 2.41344 GHz 2.72 dBm M2 1 2.4 GHz -40.07 dBm	Punction Punction Result
		M3 1 2.39 GHz -53.54 dBm M4 1 2.31 GHz -63.74 dBm M5 1 2.398928 GHz -35.89 dBm	
			General D 400 -15 08 2022
		Dama:15.AUG 2022 13:32:14	
		MultiView = Spectrum	Ψ
		Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz # Att 30 dB SWT 1.03 ms # VBW 300 kHz Mode Auto Sweep I Frequency Sweep I	Count 300/300
		10 dim-	M1[1] 3.52 dBm 2.4634850 GHz M2[1] -52.78 dBm
		o dam	2,4835000 GHz
		o dani	
		-10 dBm +1 -15.400 dBm +1	
		-20 d8m	
		stand V Murry	
CH11		withen the many that is	
		-50 dkm	Munny .
		-60 dkm	W When and the providence was and
		-70 dBm-	
			8 MHz/ 2.5 GHz
		M1 1 2.463485 GHz 3.52 dBm	Function Function Result
		M2 1 2.4835 GHZ -52.78 dBm M3 1 2.5 GHZ -62.08 dBm M4 1 2.48353 GHZ -53.09 dBm	
		1 2.403330 UR2 -33.03 (BM	

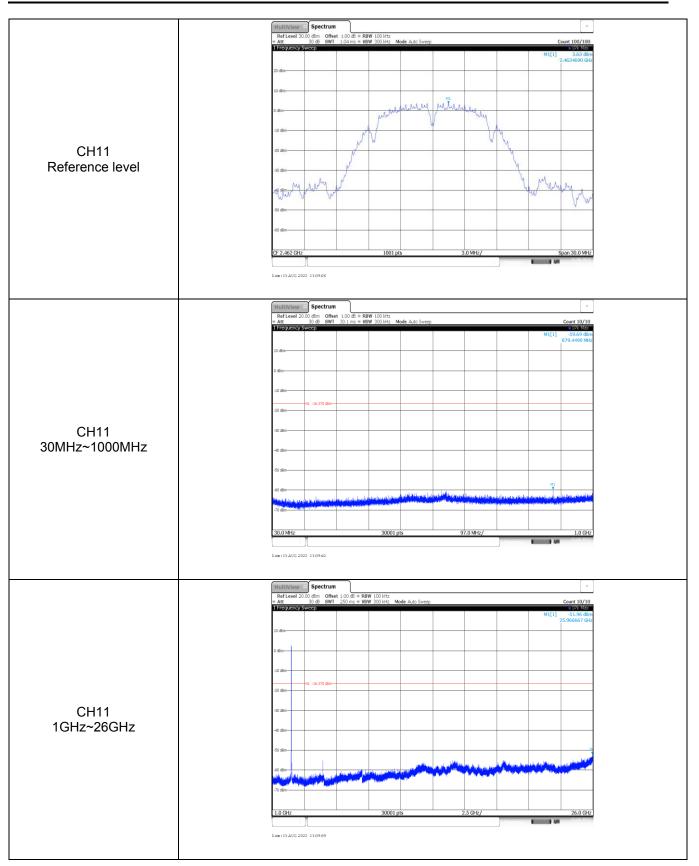
Appendix F: Band edge and Spurious Emissions (conducted)

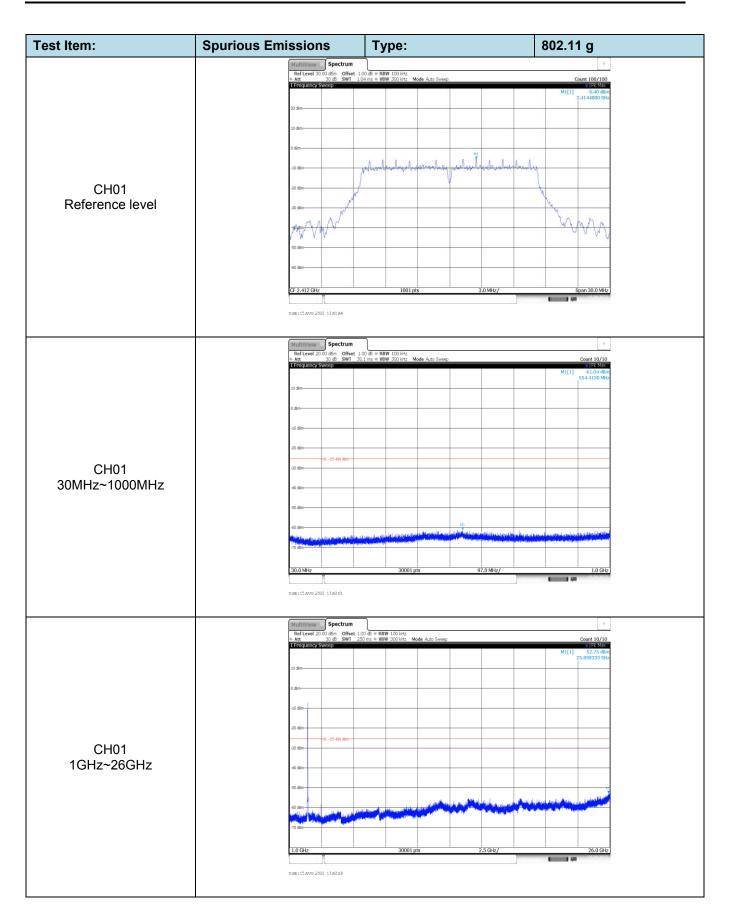
fest Item:	Bandedge		Type:				802.1	1 g
	Mu	ItiView Spectrum of Level 20.00 dBm Offset 1 t 30 dB SWT 1.					_	✓ Count 300/300
		equency Sweep	12 ms = VBW 300 kHz 1	Mode Auto Sweep			M1[1	19k Max -5.51 dBm
	10 di)m					M2[1	2.414450 GHz 39.34 dBm 2.400000 GHz
	0 d8	n						Mi
	-10 d	Bm					phild	ying
	-20 0	H1 -25.510 dBm						
	-30 d						ika/	
CH01	-40 c	Bm				ZANYW	W.	
	de c	8m			in mentionen.	Man		
	-70 0	and the second s	personancement	installes whet	a manufacture			
	2 M	1 GHz arker Table /pe Ref Trc	1001 p		11.2 MHz/ Function	1	Function R	2.422 GHz
	, ,	41 1 2. 42 1	41445 GHz 2.4 GHz	-5.51 dBm -39.34 dBm	Tunctur		TURCOUT	(csur
	h i i i i i i i i i i i i i i i i i i i	13 1 14 1 15 1 2.3	X-Value 41445 GHz 2.4 GHz 2.39 GHz 2.31 GHz 98704 GHz	Y-Value -5.51 dBm -39.34 dBm -48.55 dBm -62.64 dBm -36.76 dBm				
						11100	C	15.08.2022
		15 AUG 2022 13:41:37	_					
		Spectrum of Level 20.00 dBm Offset 1 tt 30 dB SWT	.00 dB = RBW 100 kHz					7
		t 30.08 SWT 1. equency Sweep	03 ms ⊕ VBW 300 kHz M	Mode Auto Sweep			M1[1]	Count 300/300 10k Max -2.75 dBm
	10 di	im					M2[1]	2.4644920 GHz -47.96 dBm 2.4835000 GHz
	0 dB	n	HI I I I I I					2.4000000 012
	-10 c	getween harden by	Meetropoloutentruly					
	-20,4	Brn		1				
	-30 0			1000		_		
CH11	-40 c	Bm		AWA	Wowww	-		
OIIII	-50 c	8m		-	V VY	many	mahan	nonconvert
	-60 c	8m						marine
	-70 c	Bm				_		
		52 GHz	1001 p	ots	4.8 MHz/			2.5 GHz
	Ty	arker Table /pe Ref Trc	X-Value	Y-Value	Function		Function R	
	0 0 0	11 1 2.4 12 1 2 13 1 14 1 2.4	X-Value 64492 GHz 2.4835 GHz 2.5 GHz 83632 GHz	Y-Value -2.75 dBm -47.96 dBm -58.05 dBm -45.63 dBm				
	b	14 1 2.4	83632 GHZ	-45.63 dBm				15 08 2022
	Date	15 AUG 2022 13:46:08				-		

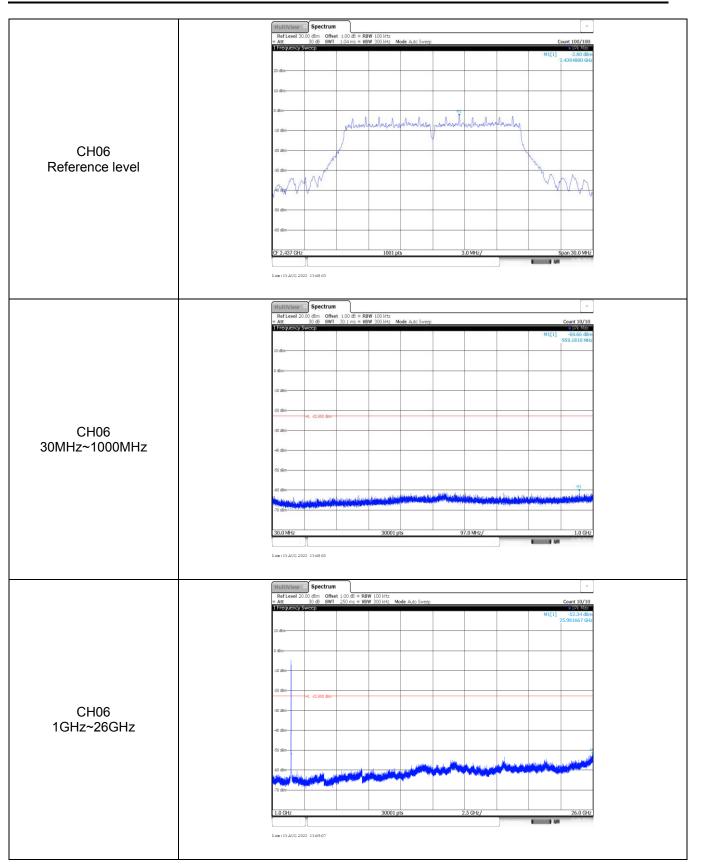
est Item:	Bandedge		Type:				802.7	11 n(HT20)
	MultiVie Ref Leve		0 dB = RBW 100 kHz 2 ms = VBW 300 kHz					×
	» Att I Frequen	30 dB SWI 1.1 Ty Sweep	2 ms = VBW 300 kHz	Mode Auto sweep			MI	Count 300/300 19k Max [1] -4.24 dBm 2,414450 GHz
	10 d8m						-M2	[1] -38.93 dBm 2.400000 GHz
	0 d8m						لملله	ulpullable
	-20 dbm							U L
	-30 dbm	H1 -24.240 dBm						
CH01	-40 dbm					M3 ,	pinner	
on or	-50 d8m				understand	after and all all all		
	-50 dom -70 dom -70 dom	advantion in the server	unonniktrobelon uba	phonesectorsell	Martin and a second			
	2.31 GHz		1001			MHz/		2.422 GHz
	2 Marker Type 	able Ref Trc 24		Y-Value -4.24 dBm -38.93 dBm	8	unction	Function	
	M2 M3 M4	1						
	M5	i 2.39	2.31 GHz 9824 GHz	-64.32 dBm -38.94 dBm				AND STRATEGICS
	Date:15AUG	2022 13:51:03						
	MultiVie	20.00 dBm Offset 1.0	0 dB = RBW 100 kHz 3 ms = VBW 300 kHz					7
	⇒ Att 1 Frequen	30 dB SWT 1.0 Ty Sweep	3 ms = VBW 300 kHz	Mode Auto Sweep			M1[1	Count 300/300 19k Max -3.17 dBm
	10 d8m						-M2[1	2.4644920 GHz -47.11 dBm 2.4835000 GHz
	0 dām	halveladore a	where by Innelies					
	-10 /B/ml	V						
	-20 d8m	H1 -23.170 dBm		1				
CH11	-40 dBm			Marton .	Uniter a construction of the second s	-		
СПП	-50 dBro			100	M	mapping Marine	Loborth roller	4
	-60 dBm							and a specific state of the specific state o
	-76 d8m							
	2.452 GH: 2 Marker	able	1001			AHz/		2.5 GHz
	<u>Type</u> M1 M2	Ref Trc 2.46	(-Value 4492 GHz 4835 GHz	Y-Value -3.17 dBm -47.11 dBm	F	unction	Function	Result
	M3 M4	1 2.4	2.5 GHz	-58.31 dBm -43.60 dBm				400 1510R52022
	Date: 15 AUC							

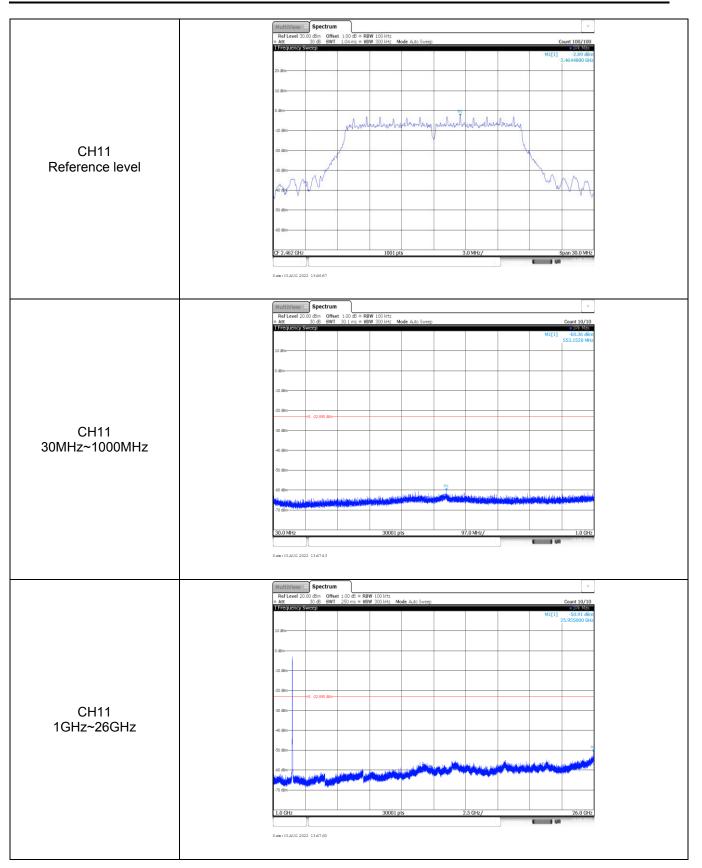




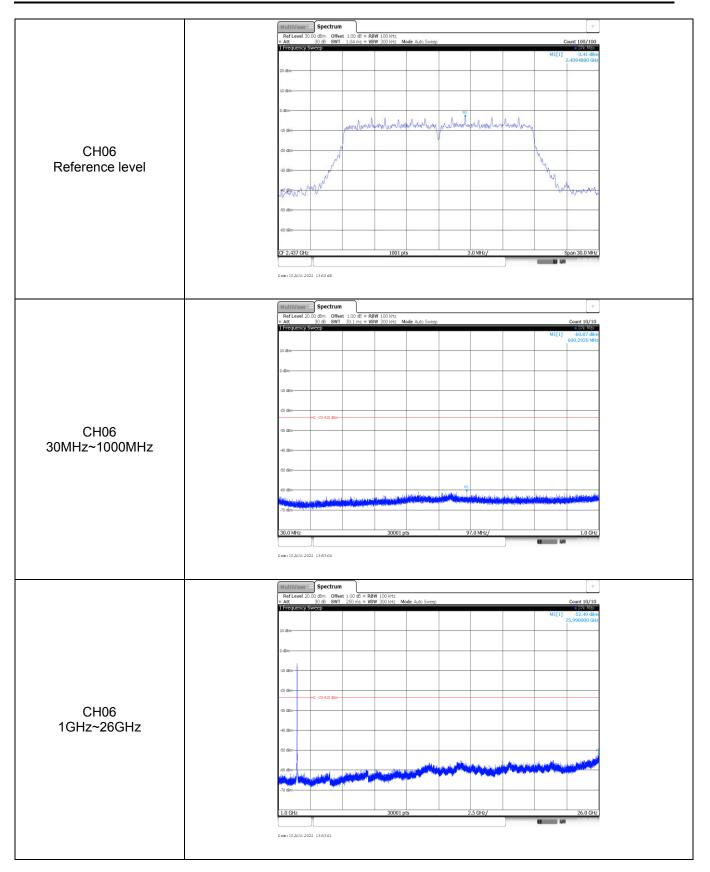


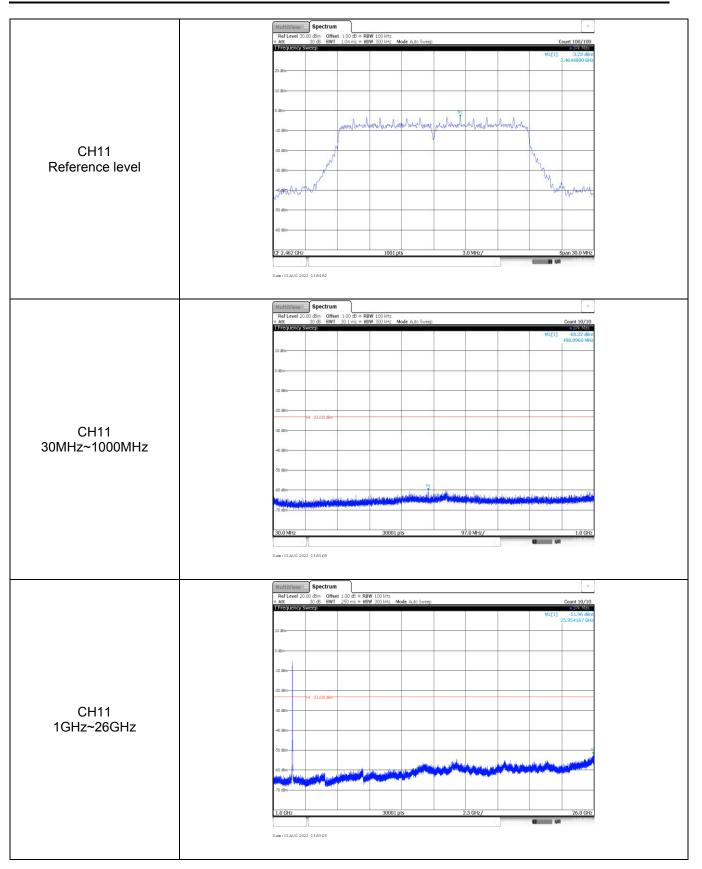






t Item:	Spurious Emissions	Туре:	802.11 n(HT
	MultiView 🗄 Spectru		Ţ
	Att 30 d8 SW Frequency Sweep	T 1.04 ms ⇒ VBW 300 kHz Mode Auto Sweep	Count 100/100
	20 d8m		2.4144880 GHz
	10 dām		
	0 dBm		M
	-10 dBm	werden finden how winding willing	In about his house have a second second
CH01	-20 d8m		
Reference level	-30 dem	~	N.
	W BOUN AND		holding
	-50 dBm		
	-60 dBm		
	CF 2.412 GHz	1001 pts	3.0 MHz/ Span 30.0 MHz
			(15 GR.2022)
	Dam:15AUG 2022 1351:11		
	MultiView 🗄 Spectru		Ψ
	Ref Level 20:00 dbm Off W Att 30 dB SW I Frequency Sweep	set 1.00 dB = RBW 100 kHz T 30.1 ms = VBW 300 kHz Mode Auto Sweep	Count 10/10 • 1Pk Max M1[1] -60.99 dBm
	10 d8m		M1[1] -60.99 dBm 551,4710 MHz
	0 dām		
	-10 dBm		
	-20 d8m		
CH01	-30 dBm		
30MHz~1000MHz	-40 dBm		
	-50 dBm		
	-60 dbm	м	
	- The Benchmark () and a statement of the	na veneti ja ja ja ka kua kin astisi anti a ta kini kini kini ka kini ka kini ka kini ka kini ka kini ka kini k	
	30.0 MHz	30001 pts	97.0 MHz/ 1.0 GHz
		30001 pts	
	Date:15.AUG 2022 13:51:27		
	MultiView Spectru		Ψ
	Ref Level 20.00 dBm Off Att 30 dB SW 1 Frequency Sweep	set 1.00 dB = RBW 100 kHz T 250 ms = VBW 300 kHz Mode Auto Sweep	Count 10/10
	10 d8m		M1[1] -52.41 dBm 25.987500 GHz
	0 dism		
	-10 dBm		
	-20 d8m		
CH01	-30 dBm		
1GHz~26GHz	-40 d8m		
	-50 dBm		
	-60 dBm		
	-70 dbm		
	1.0 GHz	30001 pts	2.5 GHz/ 26.0 GHz





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