

FCC Test Report

Report No.: 2405S50568EC

Applicant: Udisense Inc. DBA: Nanit

Address: 244 Fifth Avenue, Suite #2702 New York, NY 10001 United States

Product Name: Nanit Sound and Light

Product Model: L151

Multiple Models: N/A

Trade Mark: nanit

FCC ID: 2AIWVL151

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2024-04-30 to 2024-05-09

Test Result: Complied

Report Date: 2024-05-15

Reviewed by:

Approved by:

Abel Chen

Abel Chen

Project Engineer

Jacob Kong

Jacob Gong

Manager

Prepared by:

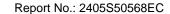
World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-05-15	Original

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1 General Information

1.1 Client Information

Applicant:	Udisense Inc. DBA: Nanit
Address:	244 Fifth Avenue, Suite #2702 New York, NY 10001 United States
Manufacturer:	Udisense Inc. DBA: Nanit
Address:	244 Fifth Avenue, Suite #2702 New York, NY 10001 United States

1.2 Product Description of EUT

The EUT is Nanit Sound and Light that contains BLE and 2.4G WLAN radio, this report covers the full testing of the 2.4G WLAN radio.

Sample Serial Number	2KPE-1 for CE Test, 2KPE-2 for RE test, 2KPE-3 for RF conducted test (assigned by WATC)
Sample Received Date	2024-04-30
Sample Status	Good Condition
Frequency Range	2412MHz - 2472MHz(802.11b, g, n-HT20) 2422MHz - 2462MHz(802.11n-HT40)
Maximum Conducted Peak Output Power	17.51dBm
Modulation Technology	DSSS, OFDM
Antenna Gain [#]	3.48dBi
Spatial Streams [#]	SISO(1TX, 1RX)
Power Supply	DC 5V from Type C port or DC 3.6V from battery
Operating temperature#	-5 deg.C to +40 deg.C
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Device Antenna information:

The Wi-Fi antenna is an internal antenna which cannot replace by end-user. Please see product internal photos for details.



1.4 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Condu	cted Emissions	±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 DTS Meas Guidance v05r02

ANSI C63.10-2013

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2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/

According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

- 1						
802.11b, 802.11g, 802.11n-HT20						
Lowest channel		Middle channel		Highest channel		
Channel No. Frequency (MHz)		Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	
1	2412	7	2442	13	2472	
	802.11n-HT40					
Lowe	est channel	Middle channel		Highest channel		
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	
3	2422	7	2442	11	2462	

Test Mode:						
Transmitting mode:	Keep the EUT in	Keep the EUT in continuous transmitting with modulation				
Exercise software [#] :	EspRFTestTool_	EspRFTestTool_v3.6_Manual				
	Worst-case	e Power Level Setting#				
Mode	Data rate	Low Channel	Middle Channel	High Channel		
802.11b	1Mbps	28	28	28		
802.11g	6Mbps	46	46	46		
802.11n-HT20	6.5Mbps	38	38	38		
802.11n-HT40	13.5Mbps	38	38	38		
The exercise softwar	e and the maximum	power setting that pro	vided by manufacture	er.		

Worst-Case Configuration:

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

2.2 Test Auxiliary Equipment

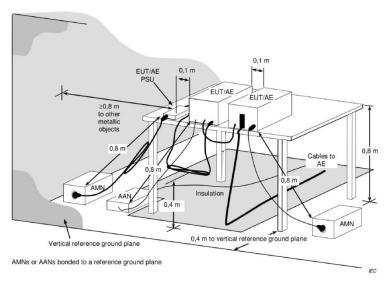
Manufacturer	Description	Model	Serial Number
MEZU	Adapter	Unknown	Unknown

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2.3 Test Setup

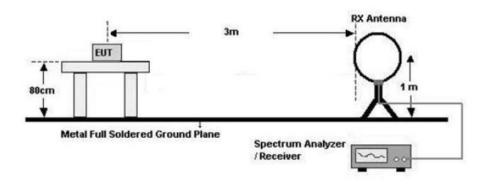
1) Conducted emission measurement:



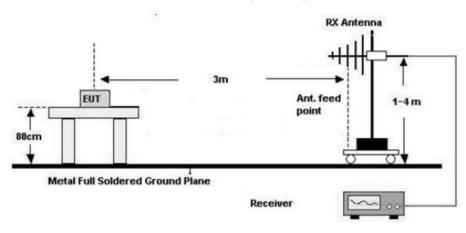
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

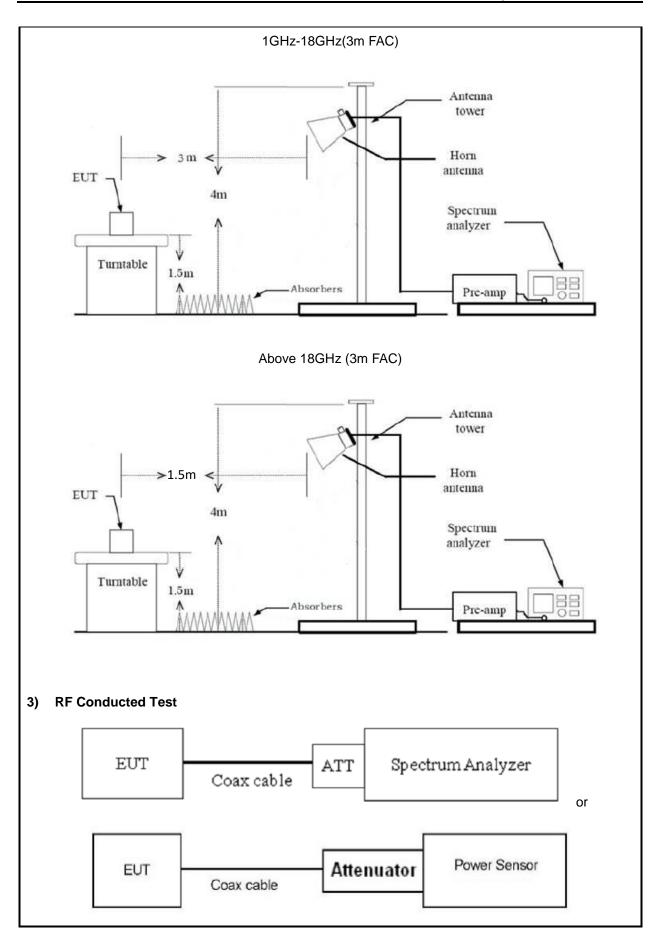
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)









2.4 Test Procedure

Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
 maximum emission, the relative positions of equipment and all of the interface cables must be
 changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

- 1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
- 2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)

b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

c) For above 1GHz:

- The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room.
 The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or



Spectrum analyzer) through Attenuator and RF cable.

- 2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.5 Measurement Method

Description of Test	Measurement Method	
AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2	
Maximum Conducted Output Power	ANSI C63.10-2013 Section 11.9.1.2 PKPM1 Peak power meter method or ANSI C63.10-2013 Section 11.9.2.3.2 Method AVGPM-G	
Power Spectral Density	ANSI C63.10-2013 Section 11.10.2 Method PKPSD (peak PSD)	
6 dB Emission Bandwidth	ANSI C63.10-2013 Section 11.8.1	
99% Occupied Bandwidth	ANSI C63.10-2013 Section 6.9.3	
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2013 Section 6.10	
Radiated emission	ANSI C63.10-2013 Section 11.11&11.12	
Duty Cycle	ANSI C63.10-2013 Section 11.6	



2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
	AC	Line Conducted Em	nission Test		
ROHDE&	EMI TEST	ESR	101817	2023/7/3	2024/7/2
SCHWARZ	RECEIVER	LON	101817	2023/1/3	2024/1/2
R&S	LISN	ENV216	101748	2023/8/1	2024/7/31
N/A	Coaxial Cable	NO.12	N/A	2023/7/3	2024/7/2
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
		Radiated Emissio	n Test		
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE&	SPECTRUM	FSV40-N	101608	2023/7/3	2024/7/2
SCHWARZ	ANALYZER		101000	2020/1/0	2024/1/2
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2023/7/12	2024/7/11
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
BACL	Loop Antenna	1313-1A	4010611	2023/0/0	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2023/7/12	2024/7/11
ANRITSU	USB Power Sensor	MA24418A	12620	2023/7/12	2024/7/11
narda	6dB attenuator	603-06-1	N/A	2023/7/26	2024/7/25

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only



3.2 Limit

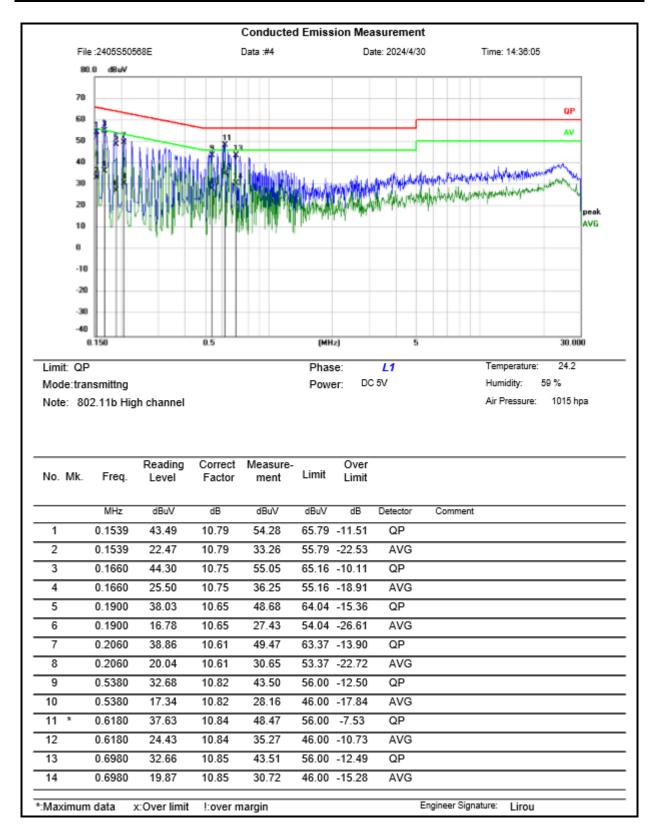
Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c)).

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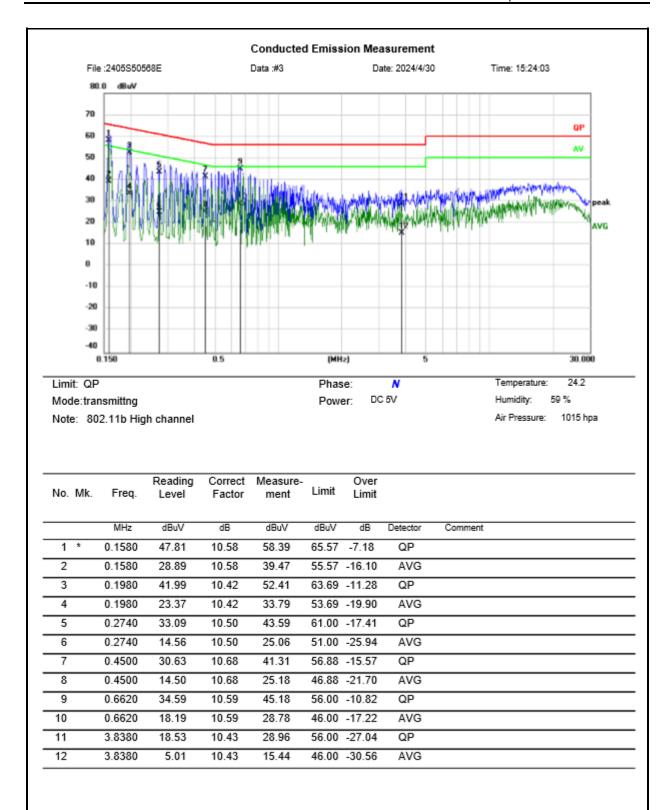


3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-04-30	Test By:	Lirou Li
Environment condition:	Temperature: 24.2°C; Relative	Humidity:59%; ATM Pr	essure: 101.5kPa







Remark:

*:Maximum data

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

x:Over limit

Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

!:over margin

Over Limit= Measurement - Limit

Engineer Signature:

Lirou



3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2024-04-30	Test By:	Bard Huang
Environment condition:	Temperature: 23.5°C; Relative	Humidity:73%; ATM Pr	essure: 99.6kPa

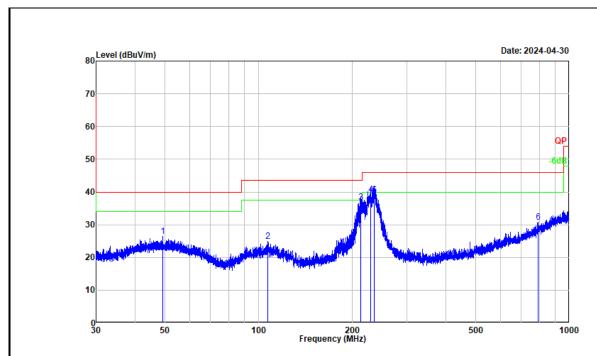
For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

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30MHz-1GHz:

Test Date:	2024-04-30	Test By:	Bard Huang
Environment condition:	Temperature: 23.5°C; Relative	Humidity:73%; ATM Pr	essure: 99.6kPa



Project No. : 2405S50568E Test Mode : Transmitting

Test Voltage : DC 5V

Environment : $23.5\,^{\circ}$ C/73%R.H./99.6kPa

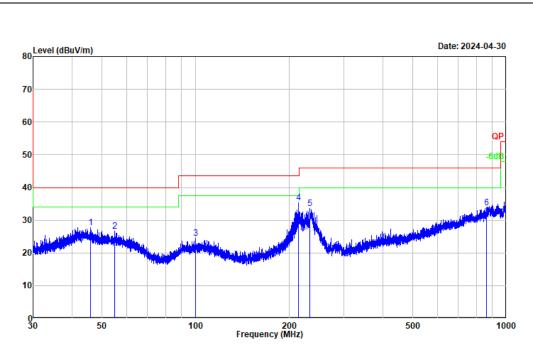
Tested by : Bard Huang Polarization : horizontal

Remark : 802.11b high channel

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	49.125	38.57	-12.17	26.40	40.00	-13.60	Peak
2	107.292	38.95	-14.05	24.90	43.50	-18.60	Peak
3	213.348	50.79	-13.85	36.94	43.50	-6.56	QP
4	229.553	52.30	-13.07	39.23	46.00	-6.77	QP
5	235.464	51.90	-12.81	39.09	46.00	-6.91	QP
6	794.417	32.86	-2.01	30.85	46.00	-15.15	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain





Project No. : 2405S50568E Test Mode : Transmitting Test Voltage : DC 5V

 ${\tt Environment} ~:~ 23.5\, {\tt C}/73 {\tt MR.H./99.6kPa}$

Tested by : Bard Huang Polarization : vertical

: 802.11b high channel

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	45.818	39.97	-12.19	27.78	40.00	-12.22	Peak	
2	54.887	39.35	-12.69	26.66	40.00	-13.34	Peak	
3	100.112	38.64	-14.19	24.45	43.50	-19.05	Peak	
4	214.003	49.17	-13.85	35.32	43.50	-8.18	Peak	
5	233.102	46.49	-12.91	33.58	46.00	-12.42	Peak	
6	864.176	35.04	-1.15	33.89	46.00	-12.11	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Remark:

Result = Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Over Limit = Result– Limit



Above 1GHz:

Test Date:	2024-05-07	Test By:	Bard Huang
Environment condition:	Temperature:24.1°C; Relative I	Humidity:66%; ATM Pre	essure:100.3 kPa

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
			802.1	1b			
			Low Ch	annel			
2390.000	37.61	horizontal	8.25	45.86	54.00	-8.14	Average
2390.000	49.66	horizontal	8.25	57.91	74.00	-16.09	Peak
2390.000	37.37	vertical	8.25	45.62	54.00	-8.38	Average
2390.000	48.51	vertical	8.25	56.76	74.00	-17.24	Peak
4824.000	48.11	horizontal	0.26	48.37	74.00	-25.63	Peak
4824.000	48.04	vertical	0.26	48.30	74.00	-25.70	Peak
		T	Middle C	hannel			
4884.000	48.34	horizontal	0.46	48.80	74.00	-25.20	Peak
4884.000	47.72	vertical	0.46	48.18	74.00	-25.82	Peak
		<u>, </u>	High Ch	annel			
2486.073	42.52	horizontal	8.25	50.77	54.00	-3.23	Average
2486.073	55.20	horizontal	8.25	63.45	74.00	-10.55	Peak
2484.732	39.42	vertical	8.25	47.67	54.00	-6.33	Average
2484.732	53.25	vertical	8.25	61.50	74.00	-12.50	Peak
4944.000	48.30	horizontal	0.83	49.13	74.00	-24.87	Peak
4944.000	48.43	vertical	0.83	49.26	74.00	-24.74	Peak
			802.1	1g			
			Low Ch	annel			
2390.000	36.81	horizontal	8.25	45.06	54.00	-8.94	Average
2390.000	48.30	horizontal	8.25	56.55	74.00	-17.45	Peak
2390.000	37.01	vertical	8.25	45.26	54.00	-8.74	Average
2390.000	48.81	vertical	8.25	57.06	74.00	-16.94	Peak
4824.000	48.16	horizontal	0.26	48.42	74.00	-25.58	Peak
4824.000	48.32	vertical	0.26	48.58	74.00	-25.42	Peak
		<u>, </u>	Middle C	hannel	· · · · · · · · · · · · · · · · · · ·		
4884.000	47.85	horizontal	0.46	48.31	74.00	-25.69	Peak
4884.000	48.36	vertical	0.46	48.82	74.00	-25.18	Peak
		,	High Ch	annel	,		_
2483.500	42.12	horizontal	8.25	50.37	54.00	-3.63	Average



2483.500 58.33 horizontal 8.25 66.58 74.00 -7.42 Peak 2483.500 40.06 vertical 8.25 48.31 54.00 -5.69 Average 2483.500 54.38 vertical 8.25 62.63 74.00 -11.37 Peak 4944.000 48.13 horizontal 0.83 48.96 74.00 -25.04 Peak 4944.000 47.44 vertical 0.83 48.97 74.00 -25.73 Peak 4824.000 38.73 horizontal 8.25 46.98 54.00 -7.02 Average 2390.000 37.00 vertical 8.25 58.02 74.00 -15.98 Peak 2390.000 48.58 vertical 8.25 56.83 74.00 -25.74 Peak 4824.000 48.82 vertical 0.26 48.55 74.00 -25.14 Peak 4884.000 48.40 horizontal 0.46 48.86	<u> </u>	ı			I	1	1	
2483.500 54.38 vertical 8.25 62.63 74.00 -11.37 Peak 4944.000 48.13 horizontal 0.83 48.96 74.00 -25.04 Peak 4944.000 47.44 vertical 0.83 48.27 74.00 -25.73 Peak BOZ-11n20 Low Channel Low Channel 2390.000 38.73 horizontal 8.25 46.98 54.00 -7.02 Average 2390.000 49.77 horizontal 8.25 58.02 74.00 -15.98 Peak 2390.000 48.58 vertical 8.25 56.83 74.00 -17.17 Peak 4824.000 48.29 vertical 0.26 48.26 74.00 -25.74 Peak 4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88	2483.500	58.33	horizontal	8.25	66.58	74.00	-7.42	Peak
4944.000	2483.500	40.06	vertical	8.25	48.31	54.00	-5.69	Average
Age	2483.500	54.38	vertical	8.25	62.63	74.00	-11.37	Peak
S02.11n20 Low Channel	4944.000	48.13	horizontal	0.83	48.96	74.00	-25.04	Peak
Low Channel	4944.000	47.44	vertical	0.83	48.27	74.00	-25.73	Peak
2390.000				802.11	n20			
2390.000 49.77 horizontal 8.25 58.02 74.00 -15.98 Peak 2390.000 37.00 vertical 8.25 45.25 54.00 -8.75 Average 2390.000 48.58 vertical 8.25 56.83 74.00 -25.74 Peak 4824.000 48.00 horizontal 0.26 48.55 74.00 -25.45 Peak 4824.000 48.29 vertical 0.26 48.55 74.00 -25.45 Peak 4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak 4884.000 49.40 vertical 0.46 49.86 74.00 -24.14 Peak 4885.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 45.61 54.00		T	, ,	Low Ch	annel	1	1	_
2390.000 37.00 vertical 8.25 45.25 54.00 -8.75 Average 2390.000 48.58 vertical 8.25 56.83 74.00 -17.17 Peak 4824.000 48.00 horizontal 0.26 48.26 74.00 -25.74 Peak Middle Channel Middle Channel 4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak High Channel 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 42.87 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak 2390.000 37.36 horizontal 8.25 45.61 54.00	2390.000	38.73	horizontal	8.25	46.98	54.00	-7.02	Average
2390.000	2390.000	49.77	horizontal	8.25	58.02	74.00	-15.98	Peak
Heat	2390.000	37.00	vertical	8.25	45.25	54.00	-8.75	Average
4824.000 48.29 vertical 0.26 48.55 74.00 -25.45 Peak Middle Channel 4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak 4884.000 49.40 vertical 0.46 49.86 74.00 -24.14 Peak High Channel 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 61.66 74.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 48.99 74.00 -25.01 Peak 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 <td>2390.000</td> <td>48.58</td> <td>vertical</td> <td>8.25</td> <td>56.83</td> <td>74.00</td> <td>-17.17</td> <td>Peak</td>	2390.000	48.58	vertical	8.25	56.83	74.00	-17.17	Peak
Middle Channel 4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak 4884.000 49.40 vertical 0.46 49.86 74.00 -24.14 Peak High Channel 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 48.97 74.00 -24.13 Peak East National Medical Properties Low Channel Low Channel 2390.000 37.36 horizontal 8.25 59.31 74.00 -8.39 Average 2390.000	4824.000	48.00	horizontal	0.26	48.26	74.00	-25.74	Peak
4884.000 48.40 horizontal 0.46 48.86 74.00 -25.14 Peak 4884.000 49.40 vertical 0.46 49.86 74.00 -24.14 Peak High Channel 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak 2390.000 37.36 horizontal 8.25 59.31 74.00 -25.01 Peak 2390.000 37.07 vertical 8.25 59.31 74.00 -14.69 Peak 2390.000 49.52 vertical 8.	4824.000	48.29	vertical	0.26	48.55	74.00	-25.45	Peak
4884.000 49.40 vertical 0.46 49.86 74.00 -24.14 Peak High Channel 2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 61.66 74.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak Boz.11n40 Low Channel Low Channel Low Channel Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 37.07 vertical 8.25 57.77 74.00		T	, ,	Middle C	hannel		1	
High Channel	4884.000	48.40	horizontal	0.46	48.86	74.00	-25.14	Peak
2483.500 42.87 horizontal 8.25 51.12 54.00 -2.88 Average 2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak B02.11n40 Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 37.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 <td>4884.000</td> <td>49.40</td> <td>vertical</td> <td>0.46</td> <td>49.86</td> <td>74.00</td> <td>-24.14</td> <td>Peak</td>	4884.000	49.40	vertical	0.46	49.86	74.00	-24.14	Peak
2483.500 56.67 horizontal 8.25 64.92 74.00 -9.08 Peak 2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak Boz.11n40 Low Channel Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak 4884.000 47.52 horizontal 0.46 47.98 <td></td> <td>T</td> <td>, ,</td> <td>High Ch</td> <td>annel</td> <td>1</td> <td>1</td> <td>_</td>		T	, ,	High Ch	annel	1	1	_
2483.572 40.13 vertical 8.25 48.38 54.00 -5.62 Average 2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak 4944.000 48.16 vertical 0.83 48.99 74.00 -25.01 Peak 802.11n40 Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 49.52 vertical 0.30 48.29 74.00 -25.71 Peak 4844.000 49.03 vertical 0.30 49.33 74.00 -26.	2483.500	42.87	horizontal	8.25	51.12	54.00	-2.88	Average
2483.572 53.41 vertical 8.25 61.66 74.00 -12.34 Peak 4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak 4944.000 48.16 vertical 0.83 48.99 74.00 -25.01 Peak B02.11n40 Low Channel Low Channel Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 49.33 74.00 -25.71 Peak 4884.000 <td< td=""><td>2483.500</td><td>56.67</td><td>horizontal</td><td>8.25</td><td>64.92</td><td>74.00</td><td>-9.08</td><td>Peak</td></td<>	2483.500	56.67	horizontal	8.25	64.92	74.00	-9.08	Peak
4944.000 49.04 horizontal 0.83 49.87 74.00 -24.13 Peak 4944.000 48.16 vertical 0.83 48.99 74.00 -25.01 Peak 802.11n40 Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 49.33 74.00 -25.71 Peak 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -26.02	2483.572	40.13	vertical	8.25	48.38	54.00	-5.62	Average
4944.000 48.16 vertical 0.83 48.99 74.00 -25.01 Peak 802.11n40 Low Channel Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 49.33 74.00 -25.71 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98	2483.572	53.41	vertical	8.25	61.66	74.00	-12.34	Peak
Solution Solution	4944.000	49.04	horizontal	0.83	49.87	74.00	-24.13	Peak
Low Channel 2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Pea	4944.000	48.16	vertical	0.83	48.99	74.00	-25.01	Peak
2390.000 37.36 horizontal 8.25 45.61 54.00 -8.39 Average 2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak Middle Channel 4884.000 49.03 vertical 0.30 49.33 74.00 -24.67 Peak 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 <td></td> <td></td> <td></td> <td>802.11</td> <td>n40</td> <td></td> <td></td> <td></td>				802.11	n40			
2390.000 51.06 horizontal 8.25 59.31 74.00 -14.69 Peak 2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak		T		Low Ch	annel		T	
2390.000 37.07 vertical 8.25 45.32 54.00 -8.68 Average 2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	2390.000	37.36	horizontal	8.25	45.61	54.00	-8.39	Average
2390.000 49.52 vertical 8.25 57.77 74.00 -16.23 Peak 4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak 4844.000 49.03 vertical 0.30 49.33 74.00 -24.67 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	2390.000	51.06	horizontal	8.25	59.31	74.00	-14.69	Peak
4844.000 47.99 horizontal 0.30 48.29 74.00 -25.71 Peak 4844.000 49.03 vertical 0.30 49.33 74.00 -24.67 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	2390.000	37.07	vertical	8.25	45.32	54.00	-8.68	Average
4844.000 49.03 vertical 0.30 49.33 74.00 -24.67 Peak Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	2390.000	49.52	vertical	8.25	57.77	74.00	-16.23	Peak
Middle Channel 4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	4844.000	47.99	horizontal	0.30	48.29	74.00	-25.71	Peak
4884.000 47.52 horizontal 0.46 47.98 74.00 -26.02 Peak 4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	4844.000	49.03	vertical	0.30	49.33	74.00	-24.67	Peak
4884.000 49.14 vertical 0.46 49.60 74.00 -24.40 Peak High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak		T	, ,	Middle C	hannel	1	1	_
High Channel 2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	4884.000	47.52	horizontal	0.46	47.98	74.00	-26.02	Peak
2483.500 42.98 horizontal 8.25 51.23 54.00 -2.77 Average 2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak	4884.000	49.14	vertical	0.46	49.60	74.00	-24.40	Peak
2483.500 59.54 horizontal 8.25 67.79 74.00 -6.21 Peak		T		High Ch	annel		1	1
	2483.500	42.98	horizontal	8.25	51.23	54.00	-2.77	Average
2483.500 40.71 vertical 8.25 48.96 54.00 -5.04 Average	2483.500	59.54	horizontal	8.25	67.79	74.00	-6.21	Peak
	2483.500	40.71	vertical	8.25	48.96	54.00	-5.04	Average



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2483.500	55.47	vertical	8.25	63.72	74.00	-10.28	Peak
4924.000	47.94	horizontal	0.69	48.63	74.00	-25.37	Peak
4924.000	48.41	vertical	0.69	49.10	74.00	-24.90	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss - Amplifier gain

Margin = Corrected Amplitude - Limit

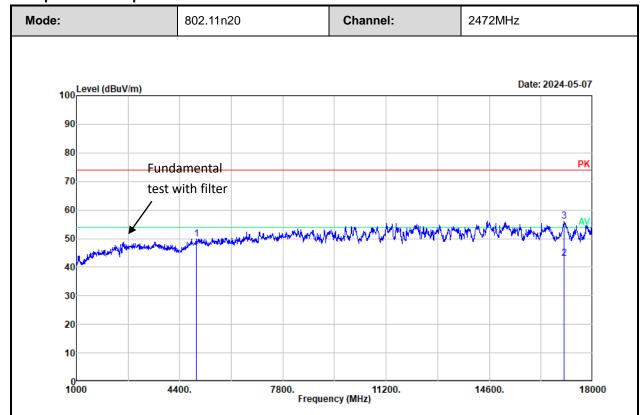
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.



Test plot for example as below:



Project No. : 2405S50568E Test Mode : Transmitting

Test Voltage : DC 5V

Environment : 24.1℃/66%R.H./100.3kPa

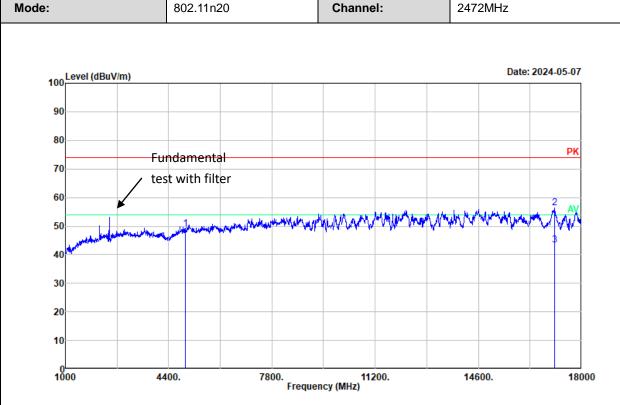
Tested by : Bard Huang Polarization : horizontal

Remark : 802.11n20 high channel

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	4944.000	49.04	0.83	49.87	74.00	-24.13	Peak
2	17064.530	35.68	7.43	43.11	54.00	-10.89	Average
3	17064.530	48.80	7.43	56.23	74.00	-17.77	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain





Project No. : 2405S50568E Test Mode : Transmitting

Test Voltage : DC 5V

Environment : 24.1° C/66%R.H./100.3kPa

Tested by : Bard Huang Polarization : vertical

Remark : 802.11n20 high channel

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	4944.000	48.16	0.83	48.99	74.00	-25.01	Peak	
2	17098.550	49.02	7.42	56.44	74.00	-17.56	Peak	
3	17098.550	35.84	7.42	43.26	54.00	-10.74	Average	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain



3.5 RF Conducted Test Data

Test Date:	2024-05-09	Test By:	Ryan Zhang		
Environment condition:	Temperature: 25.6°C;RelativeHumidity:55%; ATM Pressure: 101.2kPa				

3.5.1 6dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Antenna	Channel [MHz]	6dB BW [MHz]	99% OBW[MHz]	6dB BW Limit[MHz]	Verdict
		2412	9.615	12.960	0.5	pass
11B	Ant1	2442	9.615	12.960	0.5	pass
		2472	9.615	12.960	0.5	pass
	Ant1	2412	16.348	16.600	0.5	pass
11G		2442	16.372	16.560	0.5	pass
		2472	16.326	16.560	0.5	pass
11N20	Ant1	2412	16.872	17.440	0.5	pass
		2442	16.603	17.440	0.5	pass
		2472	16.859	17.440	0.5	pass
11N40	Ant1	2422	35.086	35.840	0.5	pass
		2442	35.128	35.760	0.5	pass
		2462	35.231	35.760	0.5	pass

3.5.2 Maximum Conducted Peak Output Power

Test Mode	Antenna	Channel	Result	Limit	Verdict
		[MHz]	[dBm]	[dBm]	
		2412	17.50	30	Pass
11B	Ant1	2442	17.51	30	Pass
		2472	17.51	30	Pass
	Ant1	2412	13.68	30	Pass
11G		2442	13.68	30	Pass
		2472	13.62	30	Pass
11N20	Ant1	2412	14.21	30	Pass
		2442	14.28	30	Pass
		2472	14.18	30	Pass
11N40	Ant1	2422	14.03	30	Pass
		2442	14.22	30	Pass
		2462	14.15	30	Pass

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3.5.3 Power Spectral Density

Test Mode	Antenna	Channel [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
	Ant1	2412	-11.47	8	Pass
11B		2442	-11.81	8	Pass
		2472	-13.57	8	Pass
	Ant1	2412	-20.51	8	Pass
11G		2442	-20.75	8	Pass
		2472	-20.24	8	Pass
11N20	Ant1	2412	-18.94	8	Pass
		2442	-19.05	8	Pass
		2472	-19.18	8	Pass
11N40	Ant1	2422	-22.74	8	Pass
		2442	-23.43	8	Pass
		2462	-22.00	8	Pass

3.5.4 100 kHz Bandwidth of Frequency Band Edge

Test Mode	Antenna	Channel [MHz]	Result	Limit	Verdict
	A 14		Refer test plot Refer test plot		Pass
11B	Ant1	2472	Refer test plot	Refer test plot	Pass
11G	Ant1	2412	Refer test plot	Refer test plot	Pass
		2472	Refer test plot	Refer test plot	Pass
11N20 Ant	A n+1	2412	Refer test plot	Refer test plot	Pass
	Anti	2472	Refer test plot	Refer test plot	Pass
11N40	Ant1	2422	Refer test plot	Refer test plot	Pass
		2462	Refer test plot	Refer test plot	Pass

3.5.5 Duty Cycle

Test Mode	Antenna	Channel [MHz]	Ton (ms)	Ton+off (ms)	Duty Cycle [%]	1/Т	VBW setting* [Hz]
11B	Ant1	2442	100	100	100	/	10
11G	Ant1	2442	100	100	100	/	10
11N20	Ant1	2442	100	100	100	/	10
11N40	Ant1	2442	2.465	2.513	98.09	/	10

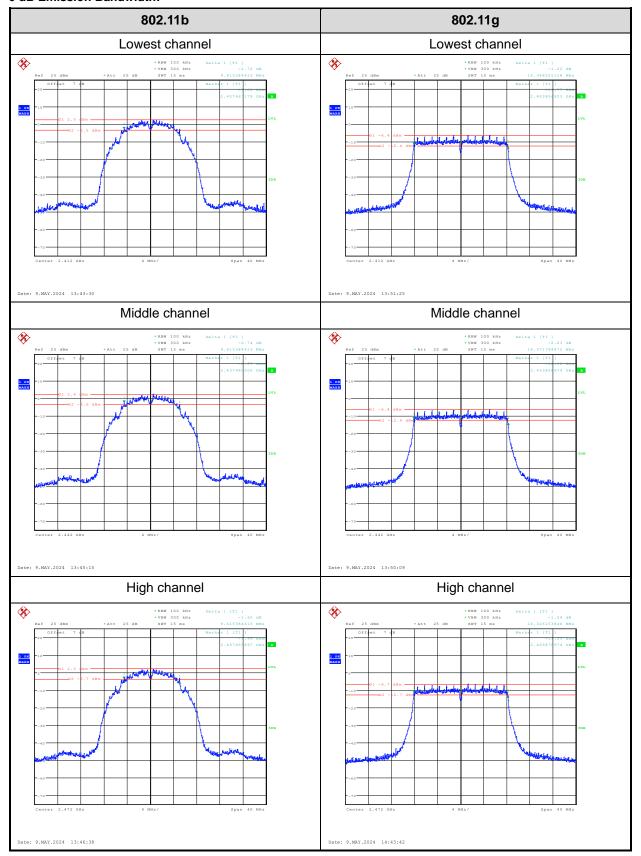
Note*: Radiated emission test with average value, the Spectrum analyzer VBW setting information.

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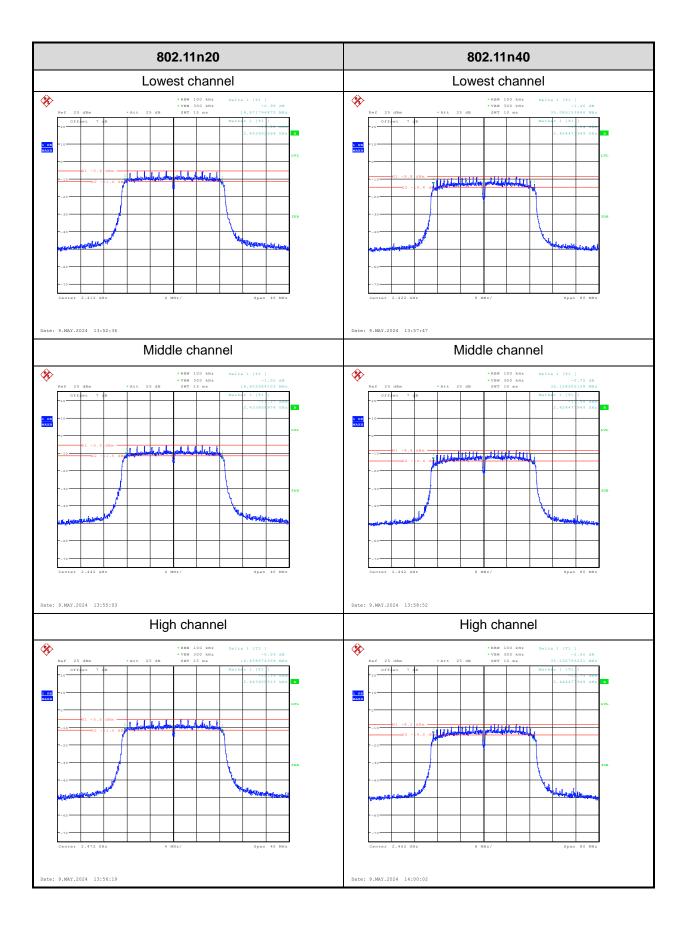


Test Plots:

6 dB Emission Bandwidth:

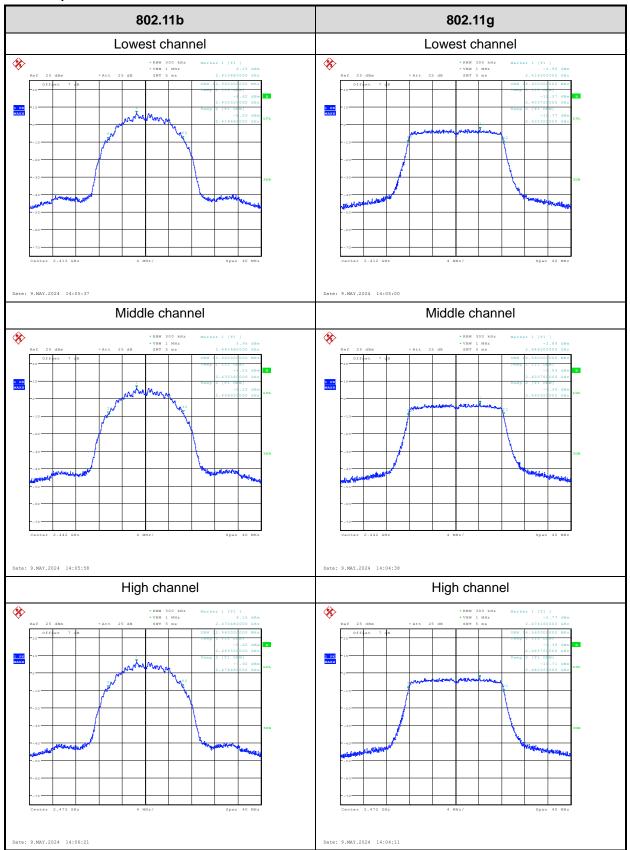




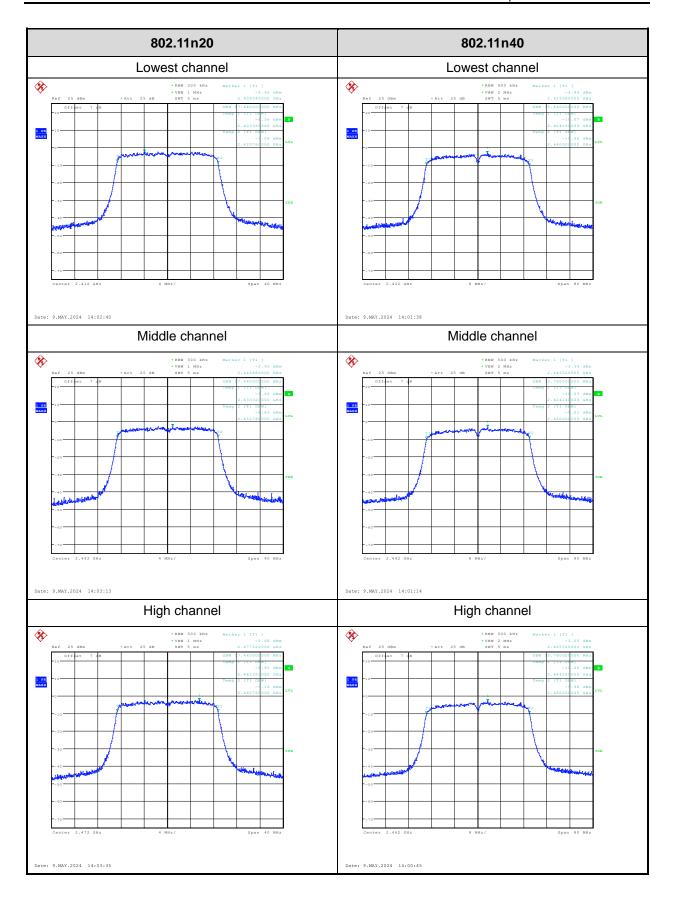




99% Occupied Bandwidth:

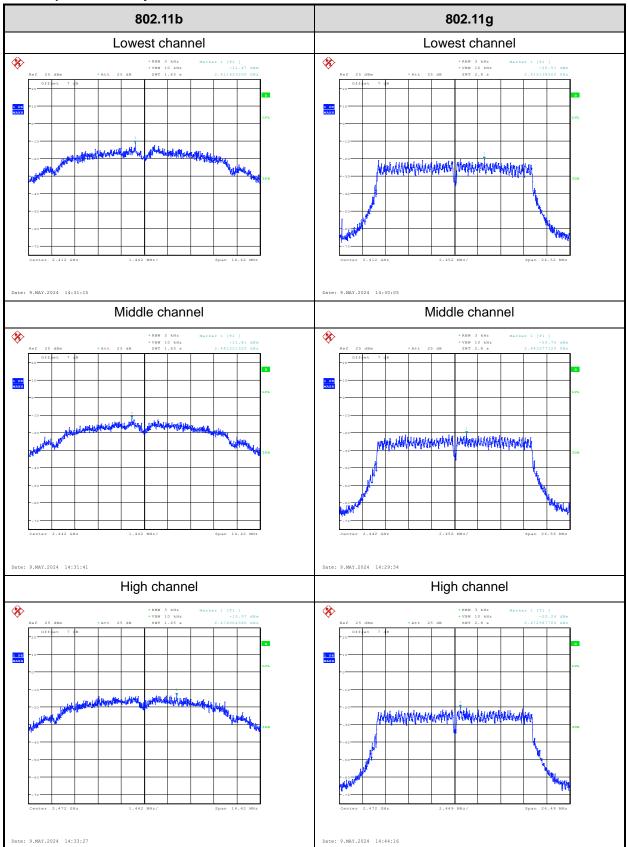




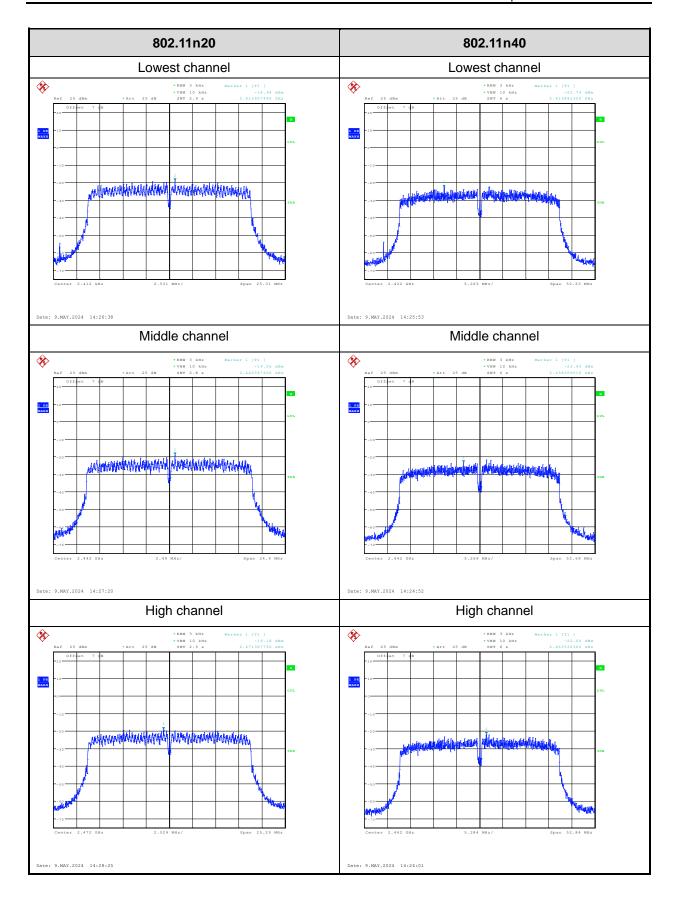




Power Spectral Density:

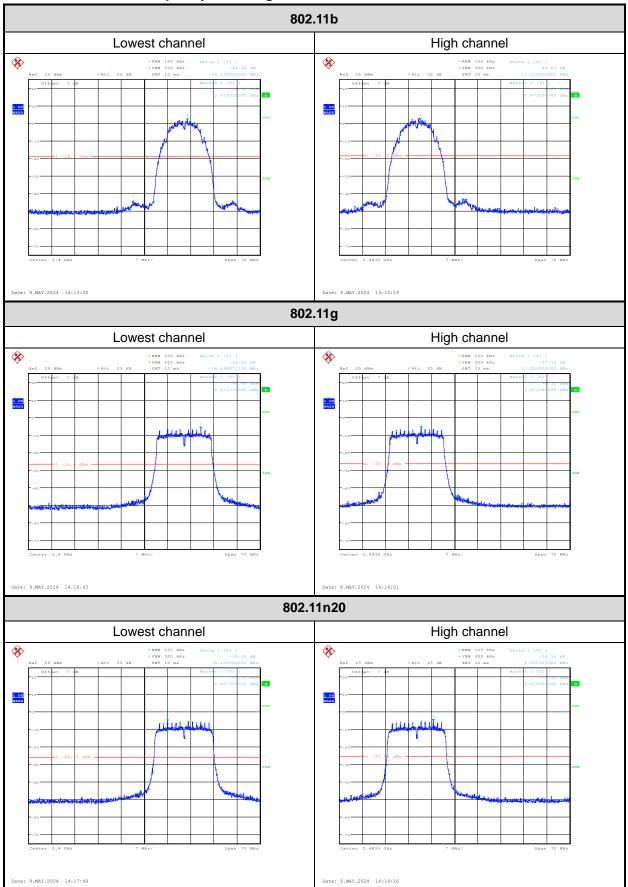




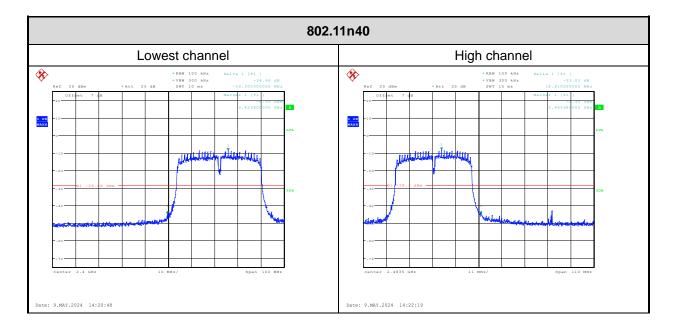




100kHz Bandwidth of Frequency Band Edge:

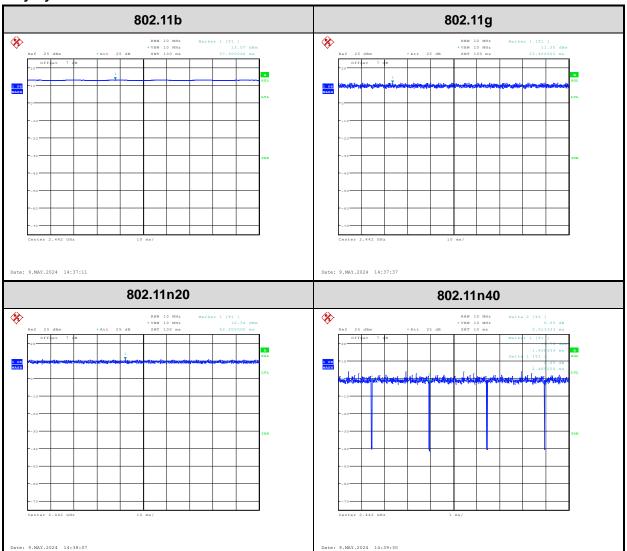








Duty Cycle:





4 Test Setup Photo

Please refer to the attachment 2405S50568E Test Setup photo.



5 E.U.T Photo

Please refer to the attachment 2405S50568E External photo and 2405S50568E Internal photo.

---End of Report---