

Maximum power spectral density

<p>802.11n ht20 Lowest Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 2.9 s Marker 1 [T1] -18.34 dBm</p> <p>Center: 2.412 GHz 2.6091 MHz/ Span: 26.091 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 18:59:50</p>
<p>802.11n ht20 Middle Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 3 s Marker 1 [T1] -17.48 dBm</p> <p>Center: 2.437 GHz 2.6139 MHz/ Span: 26.139 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 19:01:34</p>
<p>802.11n ht20 Highest Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 3 s Marker 1 [T1] -15.78 dBm</p> <p>Center: 2.462 GHz 2.6427 MHz/ Span: 26.427 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 19:18:25</p>

Maximum power spectral density

<p>802.11n ht40 Lowest Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 6 s Marker 1 [T1] -20.14 dBm 2.421364600 GHz</p> <p>Offset: 10.5 dB</p> <p>Center: 2.422 GHz 5.295 MHz/ Span: 52.95 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 19:09:24</p>
<p>802.11n ht40 Middle Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 6 s Marker 1 [T1] -17.49 dBm 2.443257914 GHz</p> <p>Offset: 10.5 dB</p> <p>Center: 2.437 GHz 5.2854 MHz/ Span: 52.854 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 19:12:07</p>
<p>802.11n ht40 Highest Channel</p>	<p>Ref: 30.5 dBm Att: 30 dB RBW: 3 kHz VBW: 10 kHz SWT: 6 s Marker 1 [T1] -19.02 dBm 2.461090888 GHz</p> <p>Offset: 10.5 dB</p> <p>Center: 2.452 GHz 5.2854 MHz/ Span: 52.854 MHz</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 19:16:11</p>

4.7 100 kHz Bandwidth of Frequency Band Edge:

Serial Number:	DYG-2	Test Date:	2024/1/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2
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Test Equipment List and Details:

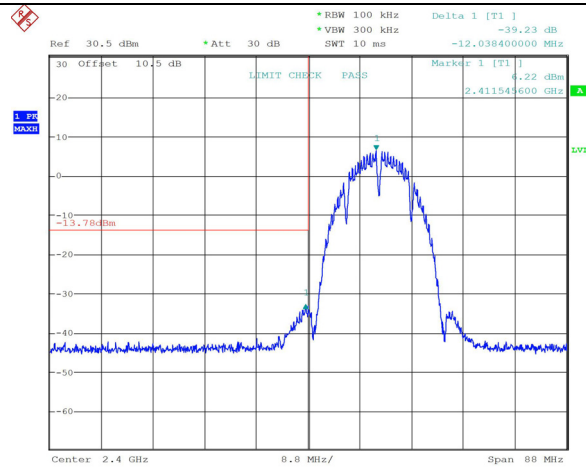
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

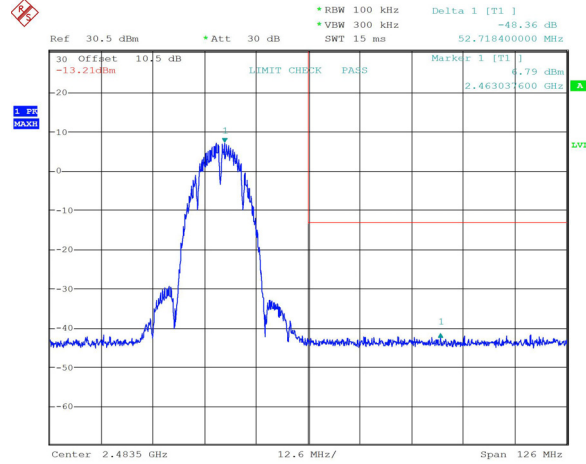
100 kHz Bandwidth of Frequency Band Edge

802.11b
Lowest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 18:34:09

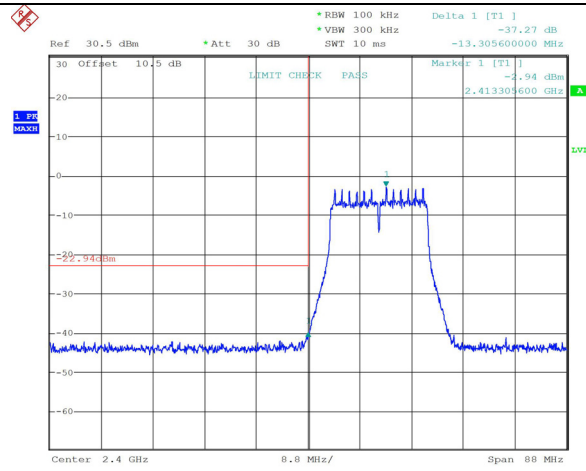
802.11b
Highest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 18:43:52

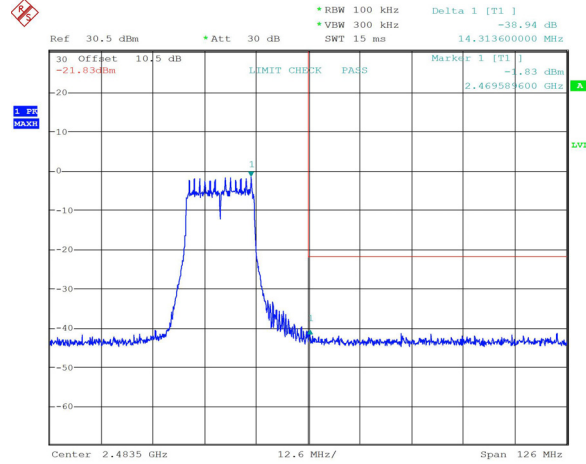
100 kHz Bandwidth of Frequency Band Edge

802.11g
Lowest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 18:48:56

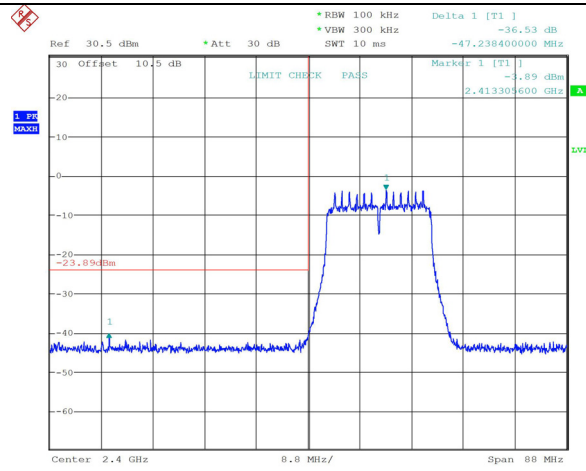
802.11g
Highest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 18:54:11

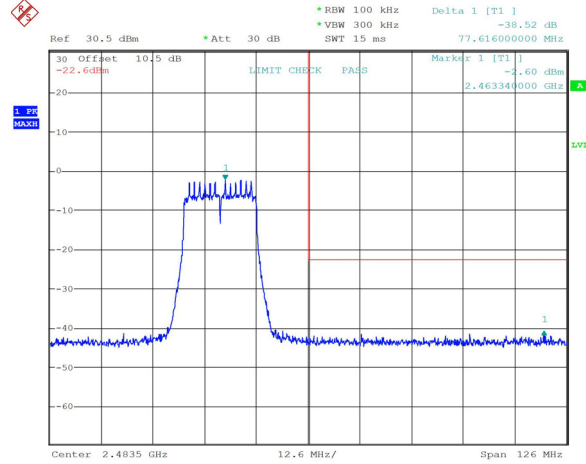
100 kHz Bandwidth of Frequency Band Edge

802.11n ht20
Lowest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 18:58:08

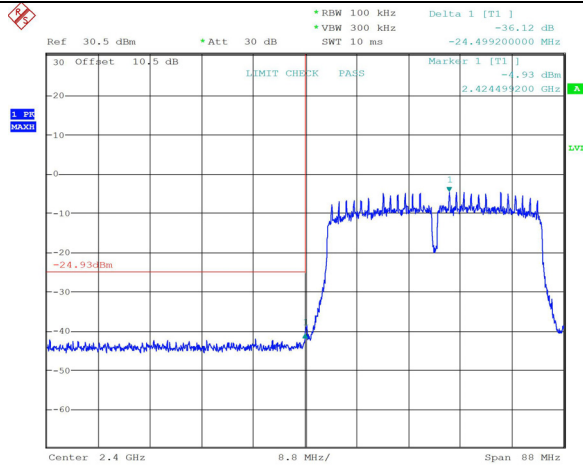
802.11n ht20
Highest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 19:03:06

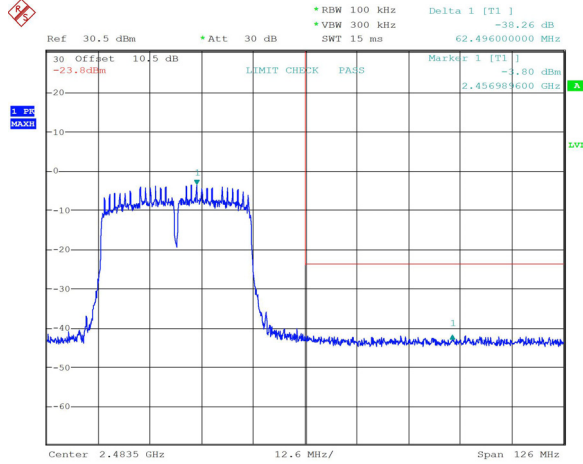
100 kHz Bandwidth of Frequency Band Edge

802.11n ht40
Lowest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 19:07:15

802.11n ht40
Highest Band edge



Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li
 Date: 2.JAN.2024 19:14:03

4.8 Duty Cycle

Serial Number:	DYG-2	Test Date:	2024/1/2
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	pass

Environmental Conditions:

Temperature: (°C)	26.1	Relative Humidity: (%)	55	ATM Pressure: (kPa)	101.2
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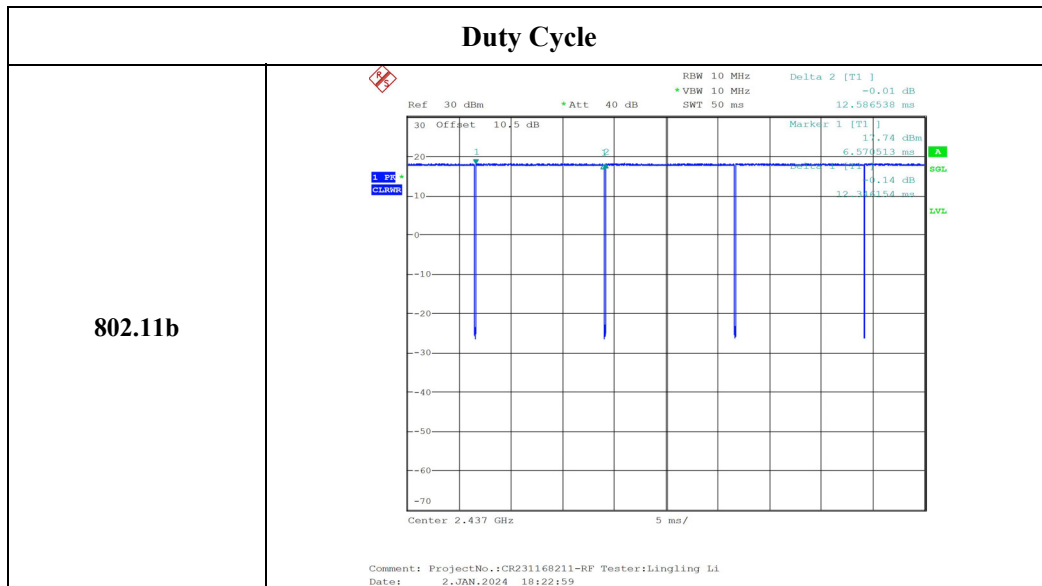
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
802.11b	12.346	12.587	98.09	/	0.01
802.11g	8.654	9.936	87.10	116	0.2
802.11n ht20	8.205	10.064	81.53	122	0.2
802.11n ht40	4.167	9.936	41.94	240	0.3



Duty Cycle	
802.11g	<p>Ref: 30 dBm *Att: 40 dB *RBW: 10 MHz *VBW: 10 MHz Delta 2 [T1]: -2.24 dB SWT: 40 ms Delta 1 [T1]: 9.935897 ms</p> <p>Marker 1 [T1]: -21.38 dBm 16.828259 ms</p> <p>Center: 2.437 GHz 4 ms/</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 18:26:28</p>
802.11n ht20	<p>Ref: 30 dBm *Att: 40 dB *RBW: 10 MHz *VBW: 10 MHz Delta 2 [T1]: -0.36 dB SWT: 40 ms Delta 1 [T1]: 10.064103 ms</p> <p>Marker 1 [T1]: -24.42 dBm 23.054692 ms</p> <p>Center: 2.437 GHz 4 ms/</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 18:27:24</p>
802.11n ht40	<p>Ref: 30 dBm *Att: 40 dB *RBW: 10 MHz *VBW: 10 MHz Delta 2 [T1]: 2.14 dB SWT: 40 ms Delta 1 [T1]: 9.935897 ms</p> <p>Marker 1 [T1]: -25.13 dBm 22.438564 ms</p> <p>Center: 2.437 GHz 4 ms/</p> <p>Comment: ProjectNo.:CR231168211-RF Tester:Lingling Li Date: 2.JAN.2024 18:28:36</p>

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2f$.
1,500-100,000	$19.2R^2$.

5.2 Measurement Result

Radio	Frequency (MHz)	$\lambda / 2\pi$ (mm)	Distance (mm)	Exemption ERP (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP	
							dBm	mW
Wi-Fi	2412-2462	19.80	200	768	20	2.16	20.01	100.23

Note:

The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: The device meet MPE-Based Exemption at 20 cm distance.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231168211-EXP EUT EXTERNAL PHOTOGRAPHS and CR231168211-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231168211-00A-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====