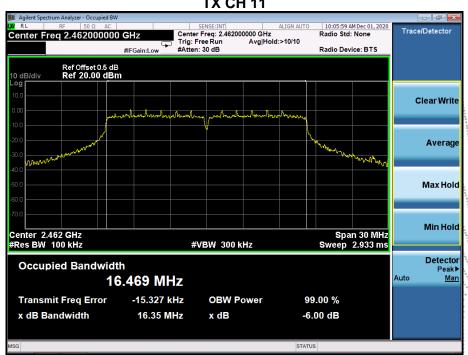


TX CH 11



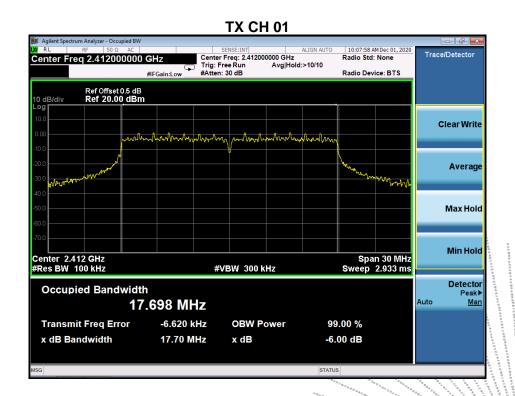
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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX n Mode(20M)		

Frequency (MHz)	6dB bandwidth (MHz) ANTA	6dB bandwidth (MHz) ANTB	Limit (kHz)	Result
2412	17.70	17.66	500	Pass
2437	17.66	17.65	500	Pass
2462	17.68	17.68	500	Pass

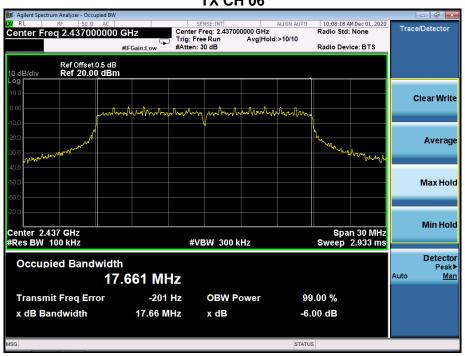
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.



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TX CH 11



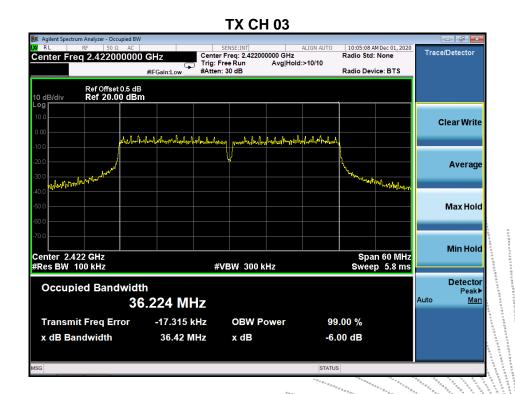
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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX n Mode(40M)		

Frequency (MHz)	6dB bandwidth (MHz) ANTA	6dB bandwidth (MHz) ANTB	Limit (kHz)	Result
2422	36.42	36.38	500	Pass
2437	36.40	36.41	500	Pass
2452	36.43	36.42	500	Pass

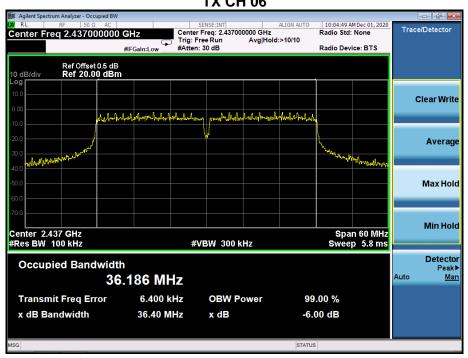
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot.



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TX CH 09



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7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES/LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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7.1.5 TEST RESULTS

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa	Test Voltage :	AC 120V

	Frequency	Maximum Conducted Output Power(PK) ANTA	Maximum Conducted Output Power(PK) ANTB	Total Power Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	(dBm)	(dBm)	dBm
	2412	14.217	14.014	1	30
802.11b	2437	12.928	14.826	1	30
	2462	12.288	13.637	1	30
	2412	14.299	15.556	1	30
802.11g	2437	14.941	15.571	1	30
	2462	15.101	15.071	1	30
	2412	14.077	14.921	17.53	30
802.11n 20	2437	13.752	14.562	17.19	30
	2462	13.787	14.772	17,32	30
	2422	10.743	11.944	14.40	300 20 20 20 20 20 20 20 20 20 20 20 20 2
802.11n 40	2437	10.988	12.082	14.58	30
	2452	10.310	11.459	13.93	30

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8. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

8.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

8.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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8.6 TEST RESULTS

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B ,only shown Antenna B Plot.



802.11b: Band Edge, Left Side





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802.11g: Band Edge, Left Side



802.11g: Band Edge, Right Side



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802.11n-HT20: Band Edge, Left Side



802.11n-HT20: Band Edge, Right Side



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802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



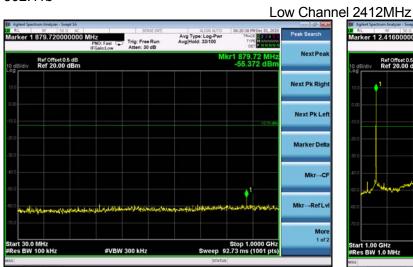
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CONDUCTED EMISSION MEASUREMENT

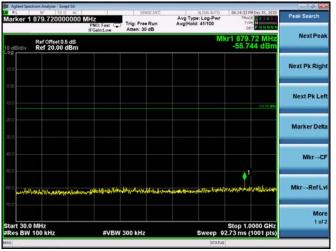
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B ,only shown Antenna B Plot.

802.11b



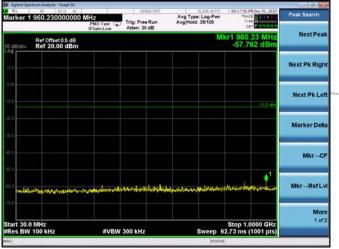


Middle Channel 2437MHz











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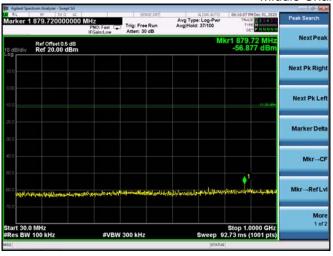
802.11g





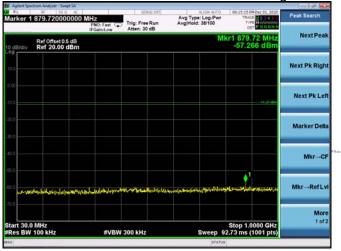


Middle Channel 2437MHz





High Channel 2462MHz





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802.11n20





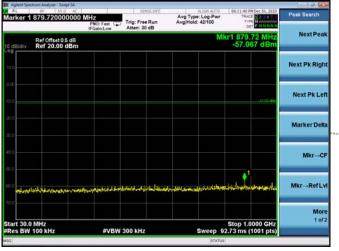


Middle Channel 2437MHz





High Channel 2462MHz





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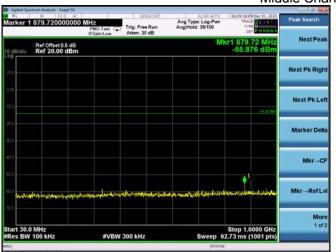
802.11n40





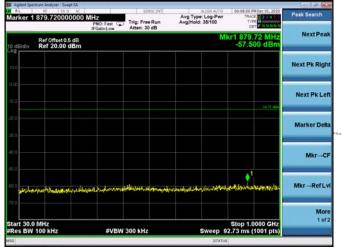


Middle Channel 2437MHz





High Channel 2452MHz





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9. DUTY CYCLE OF TEST SIGNAL

9.1 STANDARD REQUIREMENT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.2 FORMULA:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

Duty Cycle:

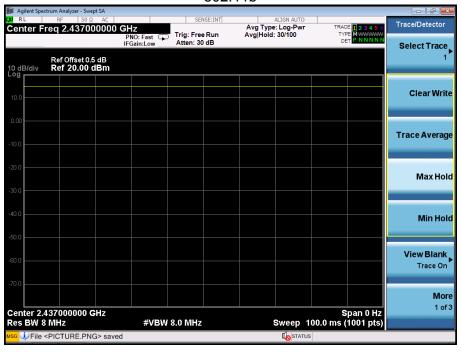
	Duty Cycle	Duty Fator
		(dB)
802.11b	1	0
802.11g	1	0
802.11n(HT20)	1	0
802.11n(HT40)	1	0

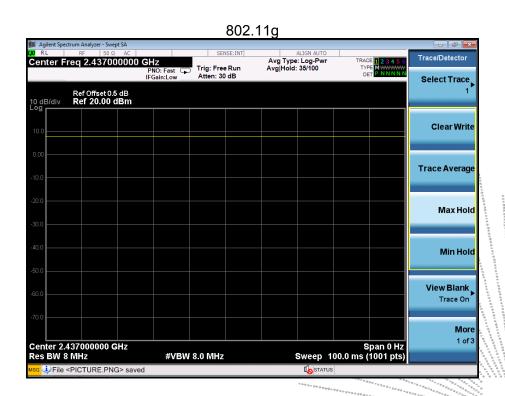
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B ,only shown Antenna B Plot.

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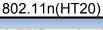
802.11b

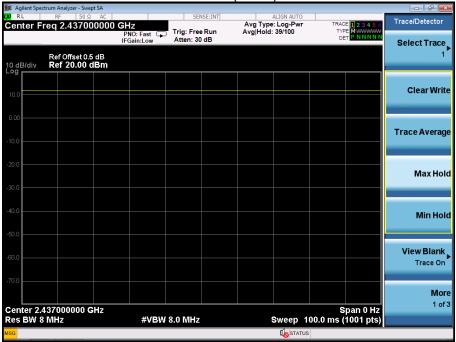




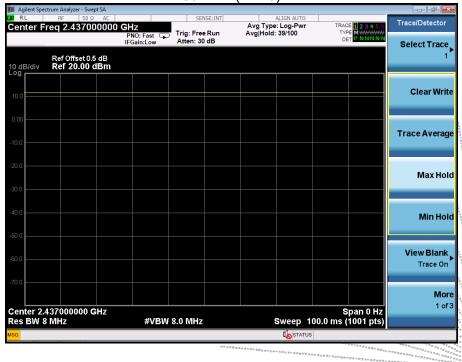
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802.11n(HT40)



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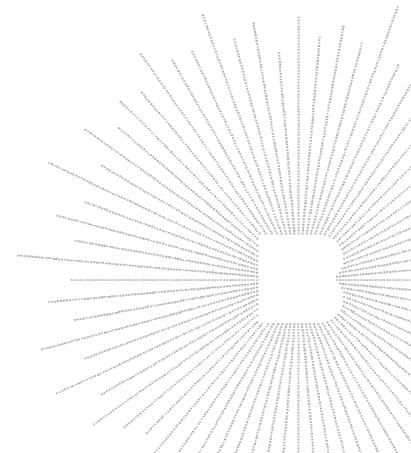
10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

10.2 EUT ANTENNA

The EUT antenna is External antenna, antenna(A) Gain 2dBi, antenna(B) Gain 2dBi, impedance 50Ω . It comply with the standard requirement.



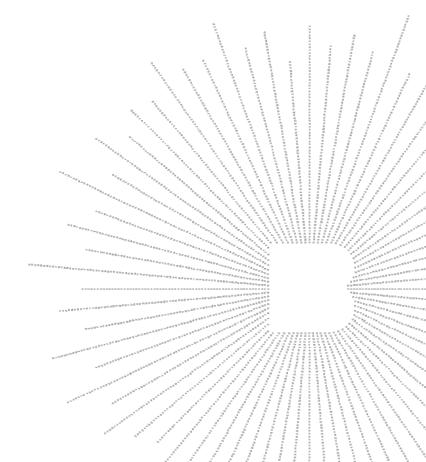
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11. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos





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12. EUT PHOTO

EUT Photo 1



EUT Photo 2

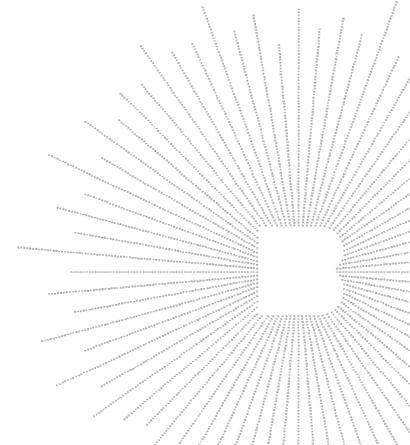


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EUT Photo 3





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STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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P. C.: 518103

FAX: 0755-33229357

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**** END ****

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