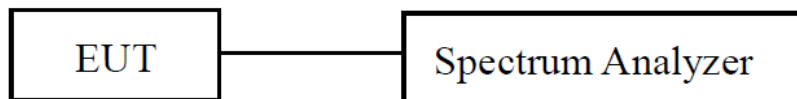


FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

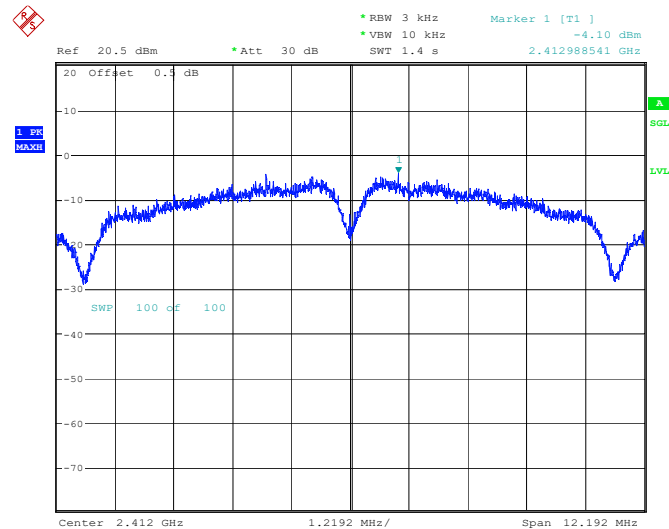
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-08-05	Test Voltage:	AC 120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 21.6°C Humi.: 55% Atm.:100.1kPa
Test Modes	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-4.1	8.00
	2437	-4.01	8.00
	2462	-3.54	8.00
802.11g	2412	-9.48	8.00
	2437	-9.23	8.00
	2462	-9.79	8.00
802.11n ht20	2412	-10.82	8.00
	2437	-11.04	8.00
	2462	-10	8.00
802.11n ht40	2422	-14.38	8.00
	2437	-15.82	8.00
	2452	-15.26	8.00

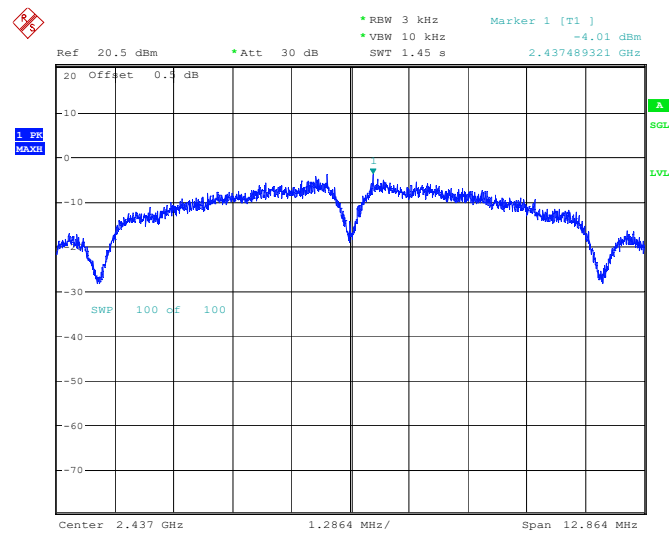
Please refer to below plots:

802.11b Mode Low Channel



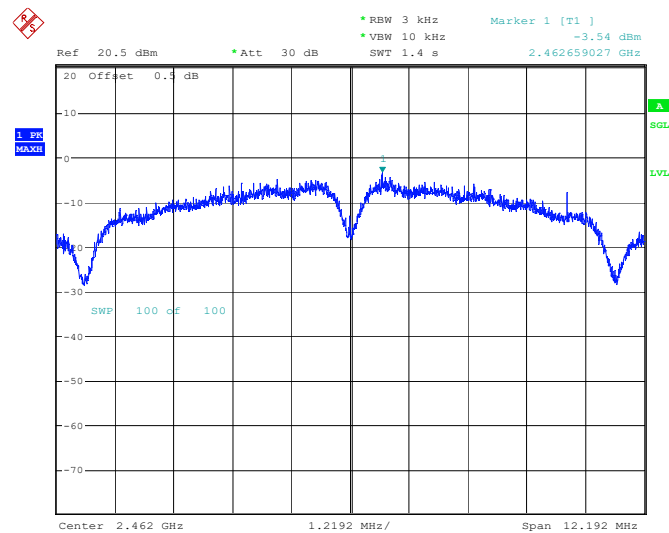
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:03:41

802.11b Mode Middle Channel



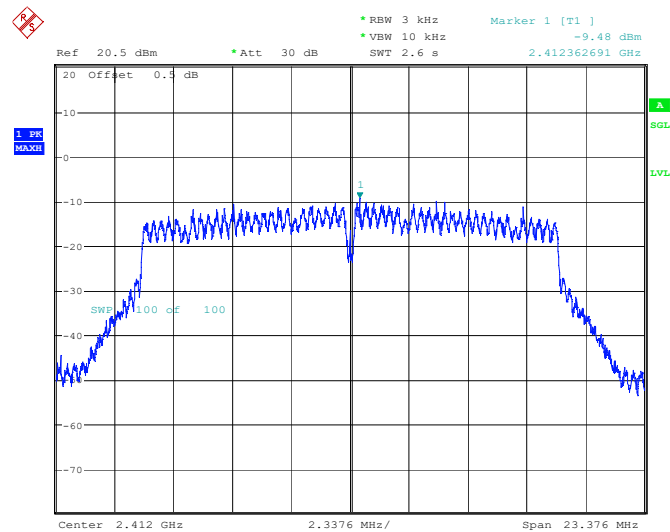
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:06:30

802.11b Mode High Channel



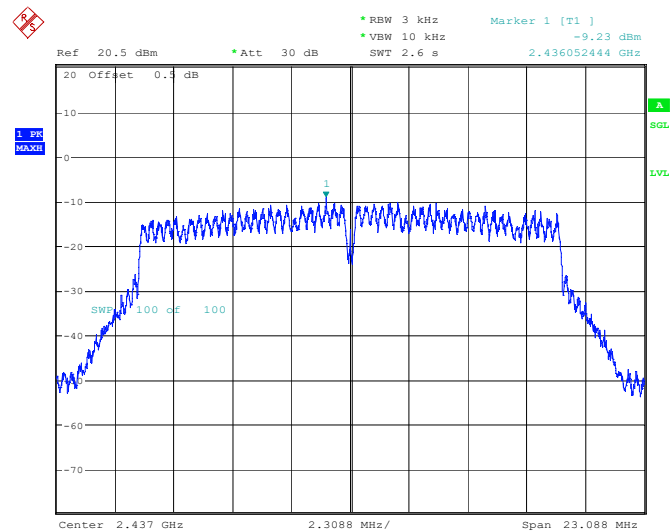
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:09:17

802.11g Mode Low Channel



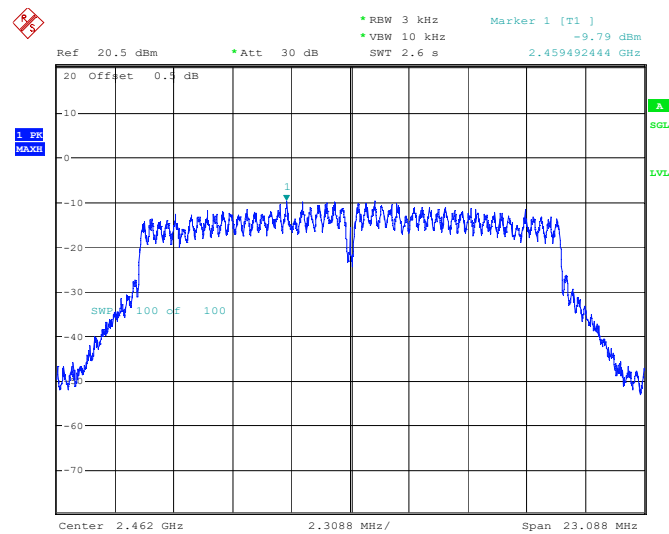
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:14:17

802.11g Mode Middle Channel



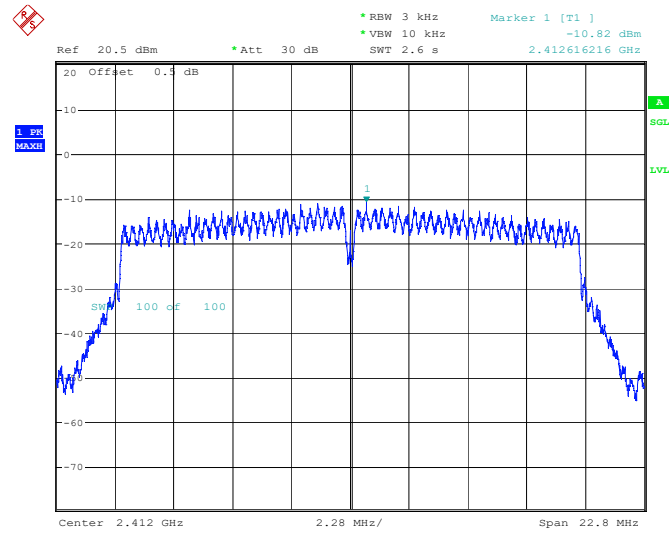
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:19:00

802.11g Mode High Channel



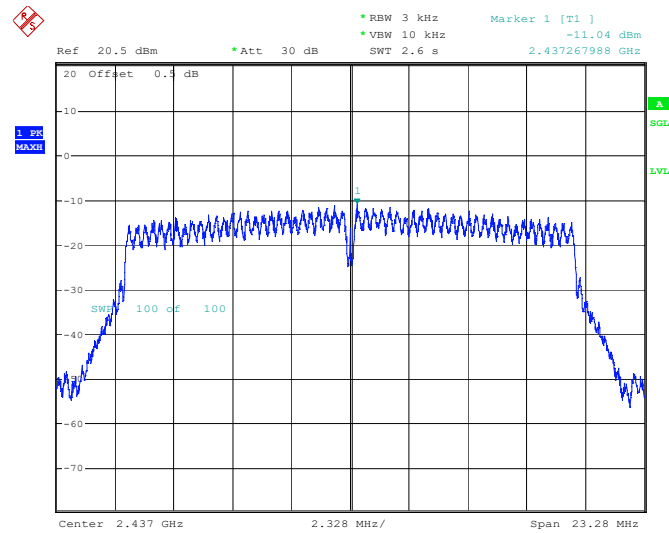
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:23:53

802.11n-ht20 Mode Low Channel



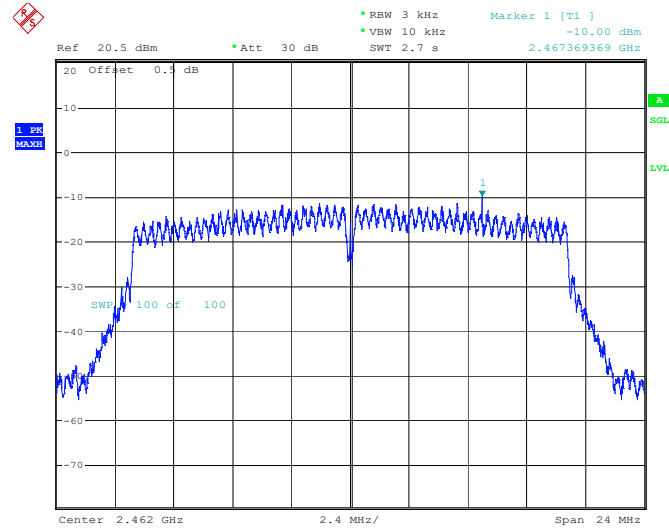
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:28:43

802.11n-ht20 Mode Middle Channel



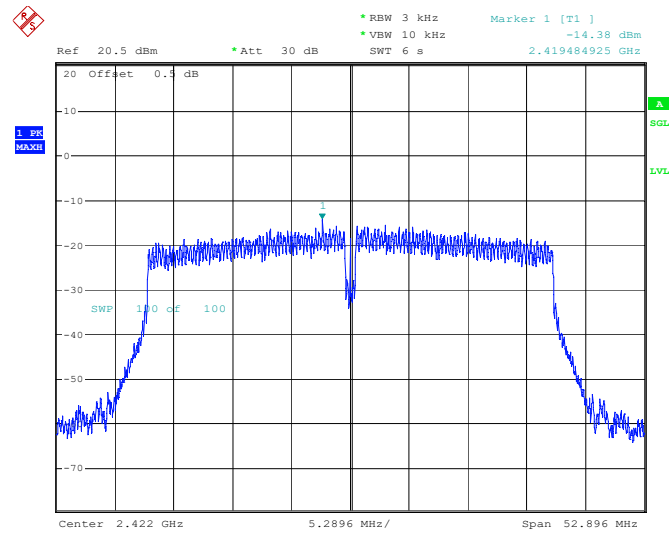
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:33:27

802.11n-ht20 Mode High Channel



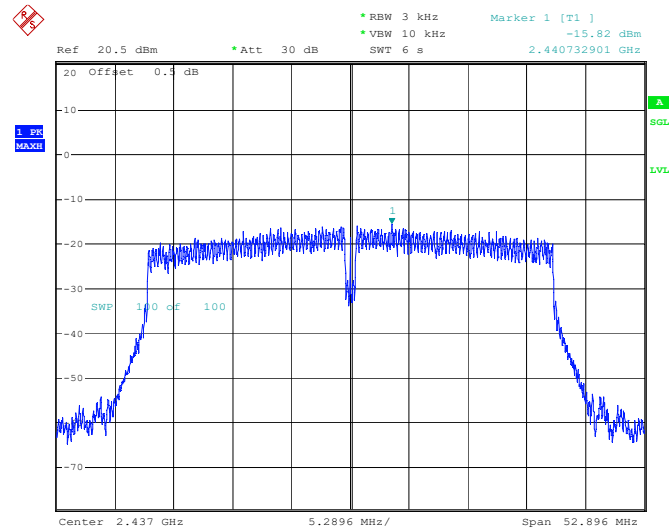
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:38:28

802.11n-ht40 Mode Low Channel



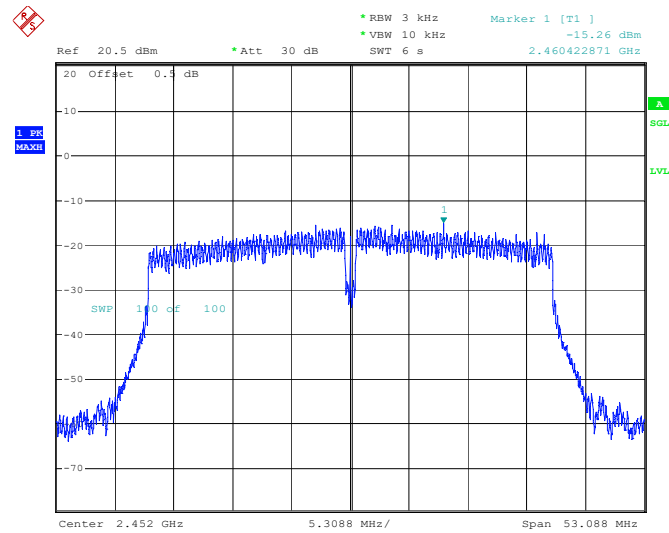
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:49:03

802.11n-ht40 Mode Middle Channel



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 15:59:46

802.11n-ht40 Mode High Channel



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 5.AUG.2024 16:10:13

EUT PHOTOGRAPHS

Please refer to the attachment 2407V20721E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2407V20721E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407V20721E-RF-TSP-01 SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

***** END OF REPORT *****