

Appendix C- 2.4GWi-Fi for Module YL43456

Test Information:

Sample No.:	2Y0T-2	Test Date:	2025/02/17~2025/05/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

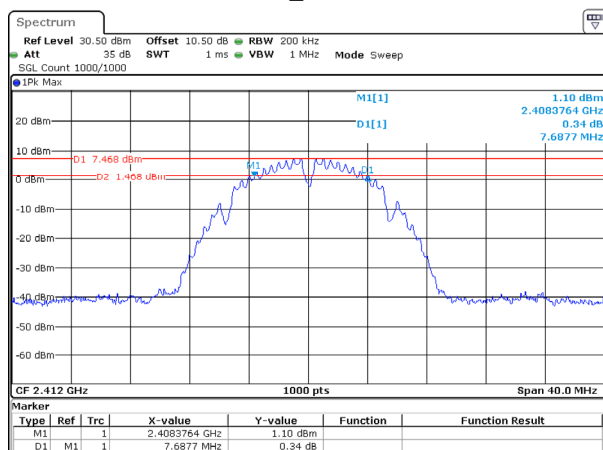
Environmental Conditions:

Temperature: (°C)	25.2~26.1	Relative Humidity: (%)	45~52	ATM Pressure: (kPa)	100.0~101.3
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6dB Emission Bandwidth

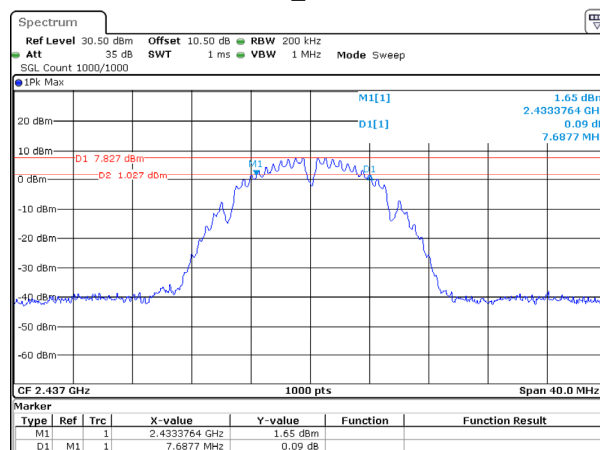
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	7.688	≥ 0.5	Pass
	2437	7.688	≥ 0.5	Pass
	2462	7.688	≥ 0.5	Pass
802.11g	2412	16.376	≥ 0.5	Pass
	2437	16.336	≥ 0.5	Pass
	2462	16.376	≥ 0.5	Pass
802.11n20	2412	17.538	≥ 0.5	Pass
	2437	17.658	≥ 0.5	Pass
	2462	17.578	≥ 0.5	Pass

802.11b_2412MHz



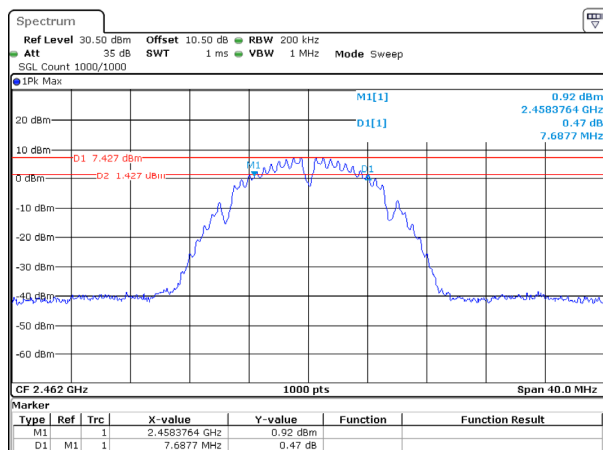
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:34:02

802.11b_2437MHz



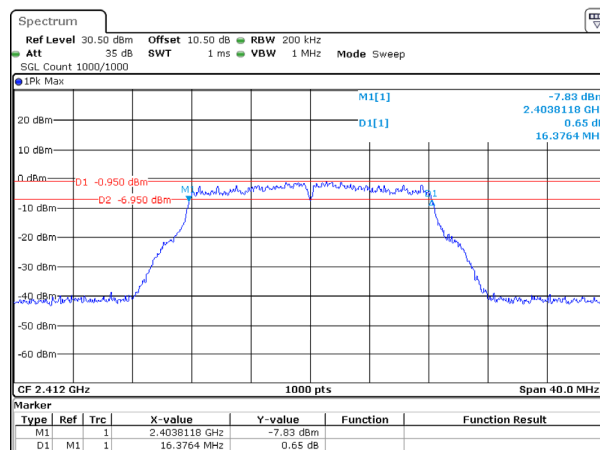
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:36:03

802.11b_2462MHz



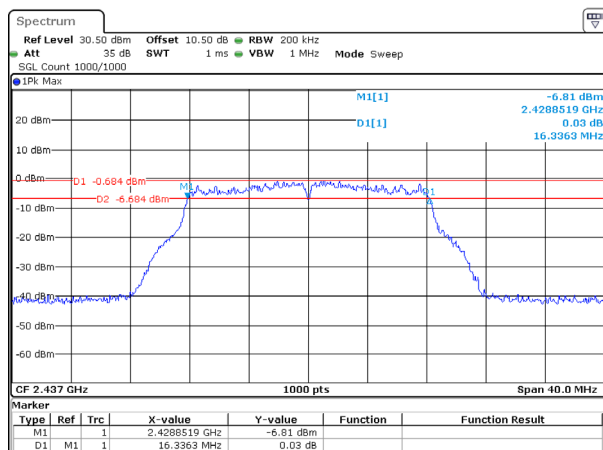
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:37:03

802.11g_2412MHz



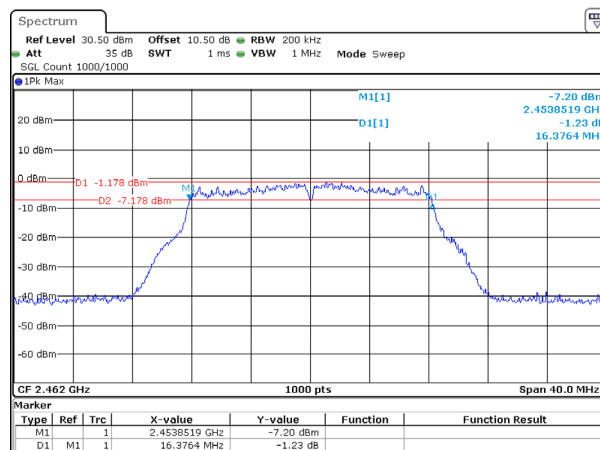
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:38:51

802.11g_2437MHz



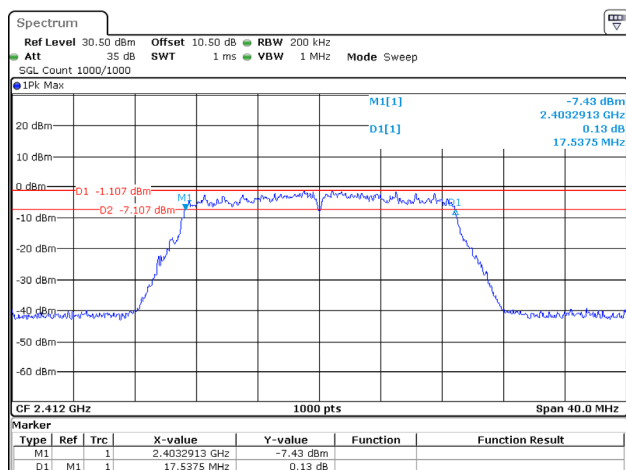
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:39:45

802.11g_2462MHz



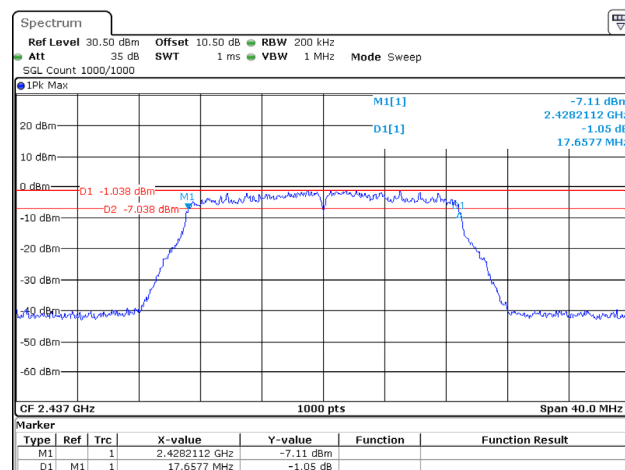
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:40:51

802.11n20_2412MHz



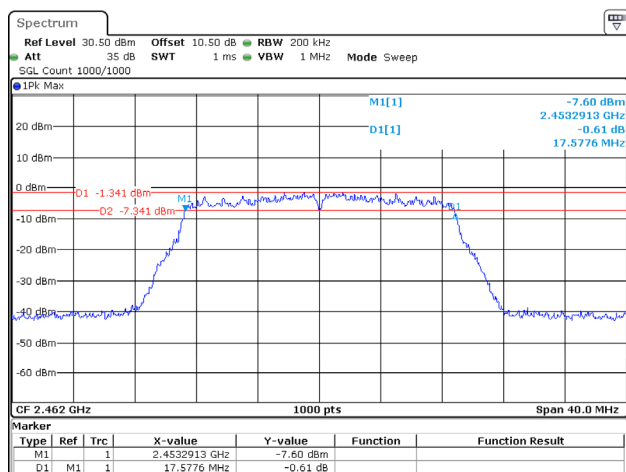
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:43:10

802.11n20_2437MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:44:04

802.11n20_2462MHz



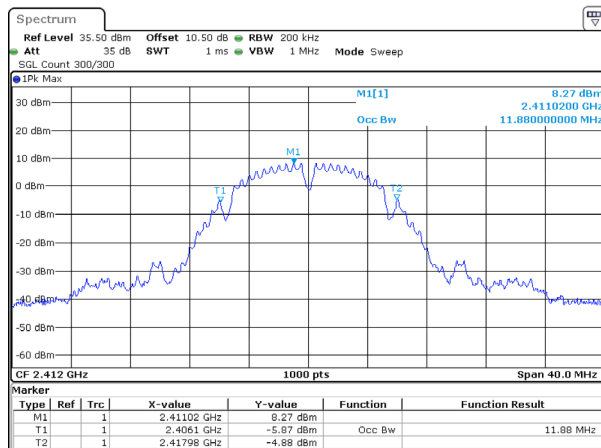
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.MAY.2025 11:45:04

99% Occupied Bandwidth

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	11.880
	2437	11.880
	2462	11.920
802.11g	2412	16.360
	2437	16.600
	2462	16.400
802.11n20	2412	17.520
	2437	17.680
	2462	17.520

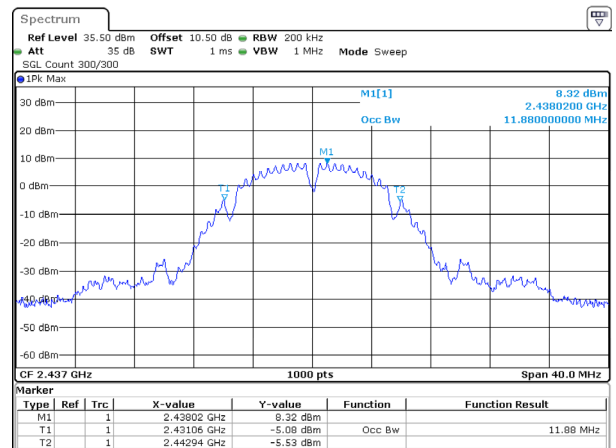
2412~2462

802.11b_2412MHz



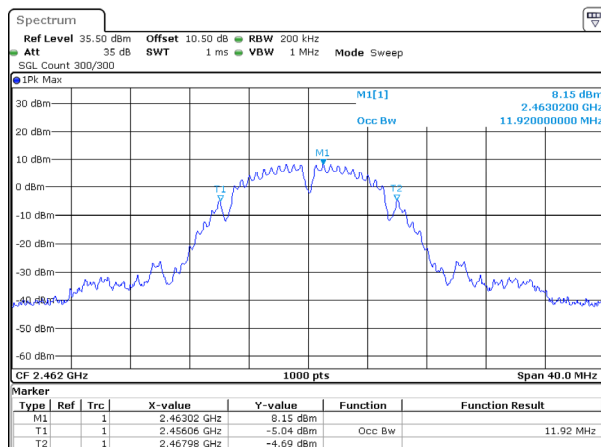
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:07:52

802.11b_2437MHz



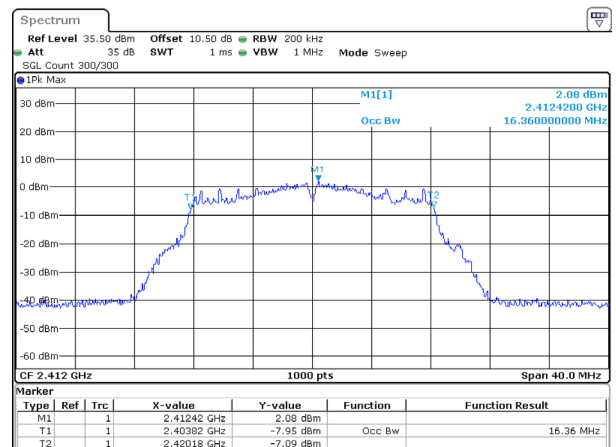
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:09:22

802.11b_2462MHz



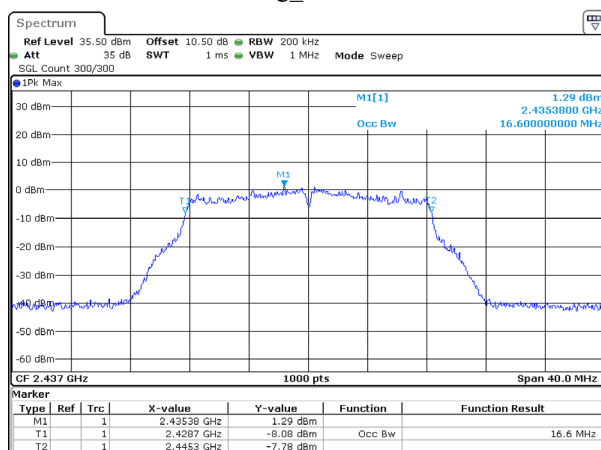
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:10:34

802.11g_2412MHz



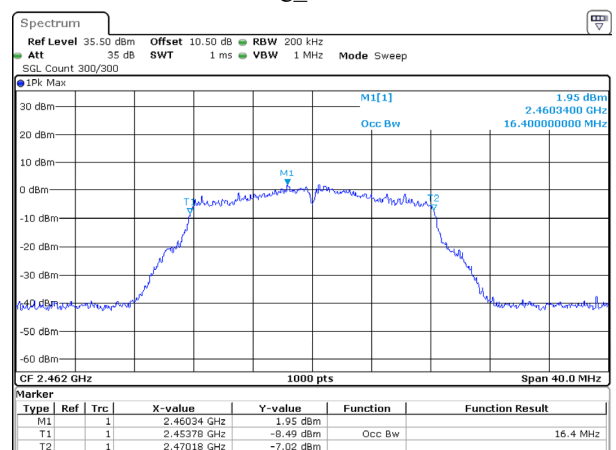
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:20:30

802.11g_2437MHz



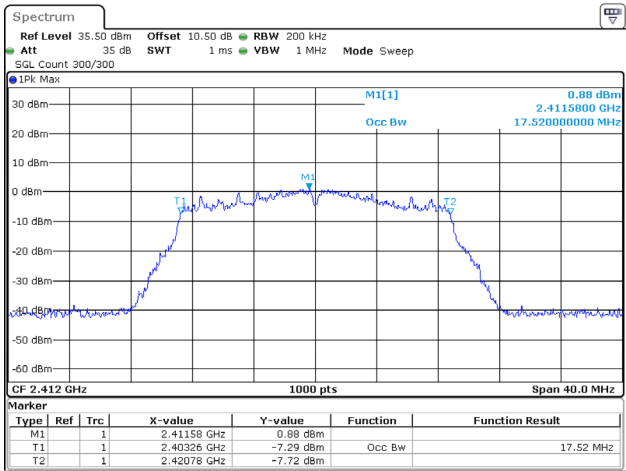
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:22:01

802.11g_2462MHz



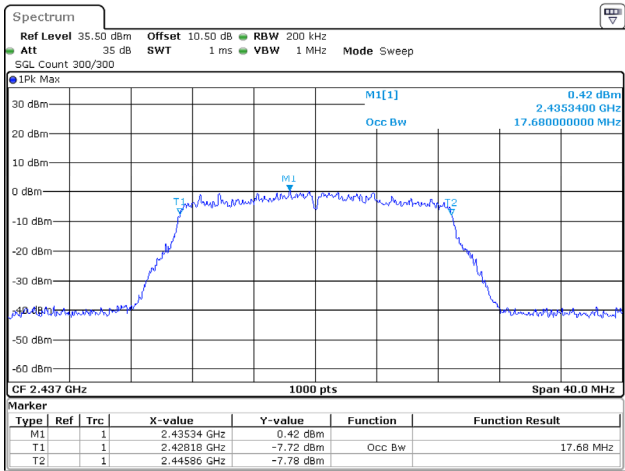
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:23:29

802.11n20_2412MHz



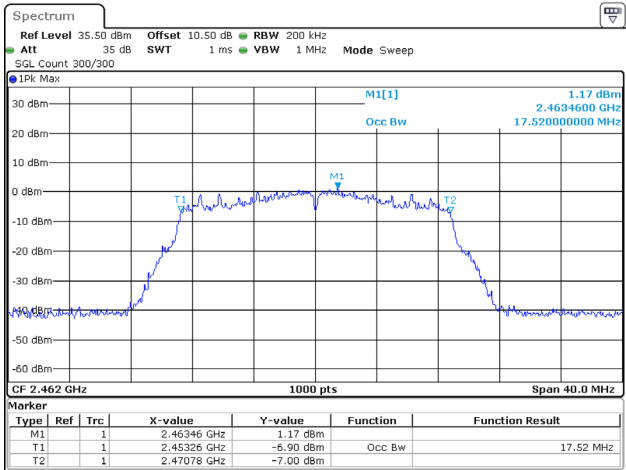
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:25:35

802.11n20_2437MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:30:01

802.11n20_2462MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:31:51

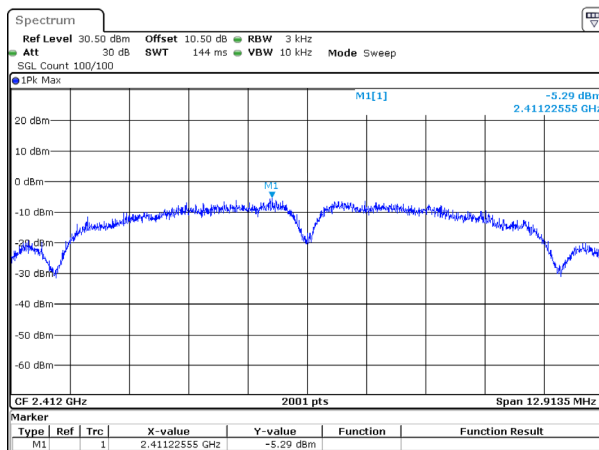
Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
802.11b	2412	19.43	30	3.15	22.58	36	Pass
	2437	19.48	30	3.15	22.63	36	Pass
	2462	19.39	30	3.15	22.54	36	Pass
802.11g	2412	17.85	30	3.15	21	36	Pass
	2437	17.77	30	3.15	20.92	36	Pass
	2462	17.93	30	3.15	21.08	36	Pass
802.11n20	2412	17.45	30	3.15	20.6	36	Pass
	2437	17.41	30	3.15	20.56	36	Pass
	2462	17.44	30	3.15	20.59	36	Pass

Power Spectral Density

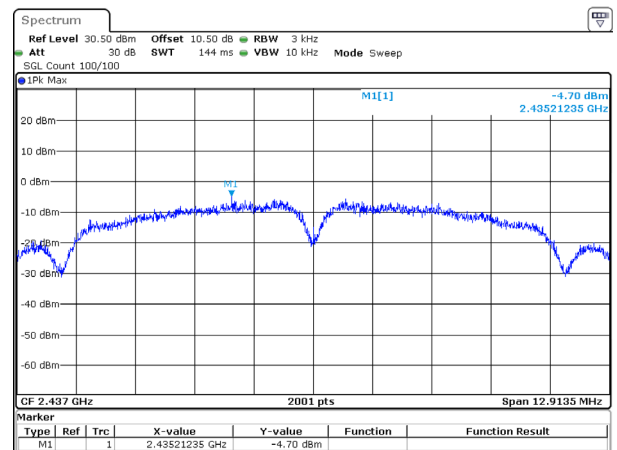
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-5.29	8	Pass
	2437	-4.70	8	Pass
	2462	-5.75	8	Pass
802.11g	2412	-11.98	8	Pass
	2437	-12.68	8	Pass
	2462	-12.32	8	Pass
802.11n20	2412	-12.75	8	Pass
	2437	-13.62	8	Pass
	2462	-13.41	8	Pass

802.11b_2412MHz



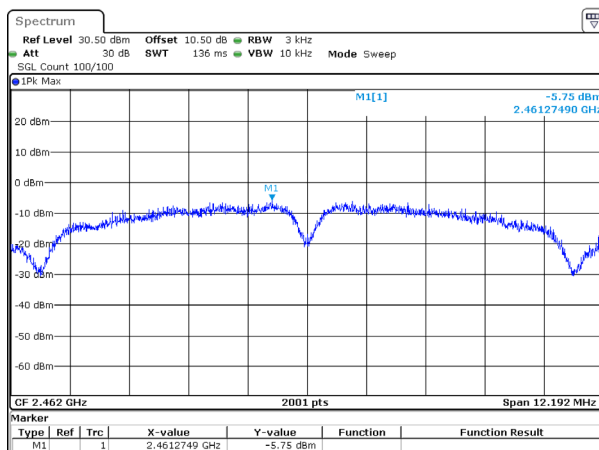
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:08:43

802.11b_2437MHz



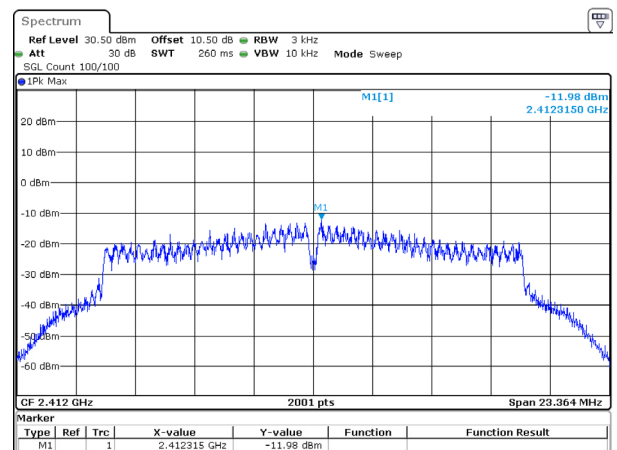
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:09:50

802.11b_2462MHz



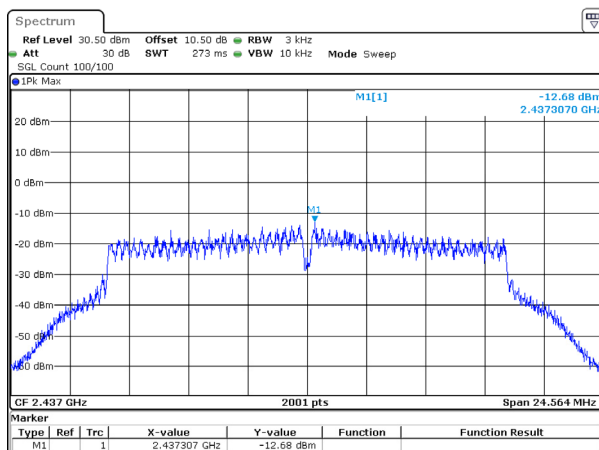
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:11:10

802.11g_2412MHz



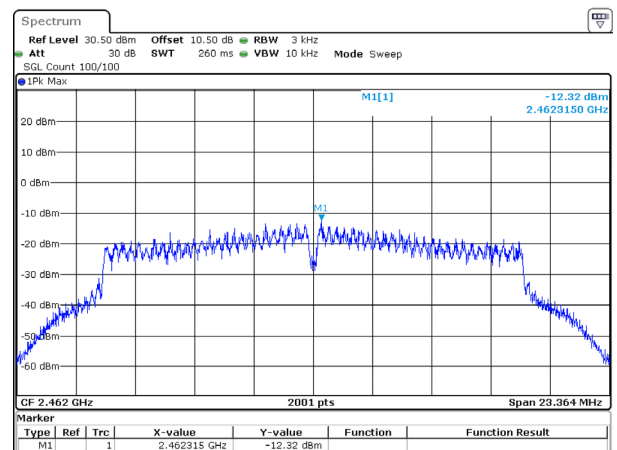
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:21:20

802.11g_2437MHz



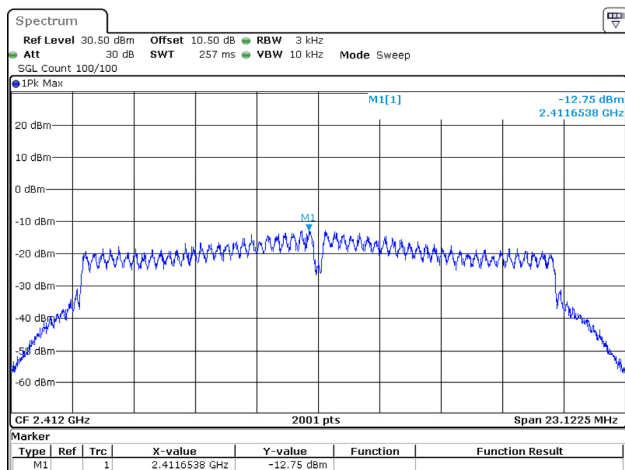
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:22:44

802.11g_2462MHz



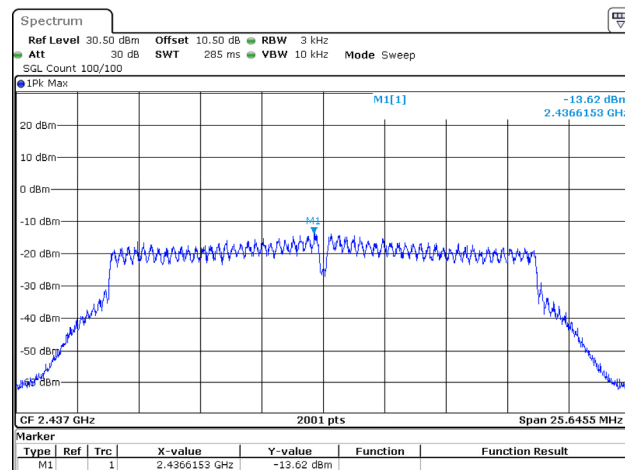
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:24:21

802.11n20_2412MHz



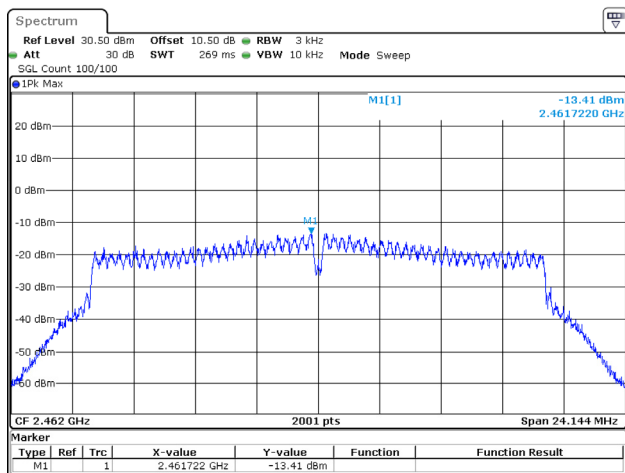
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:29:18

802.11n20_2437MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:30:46

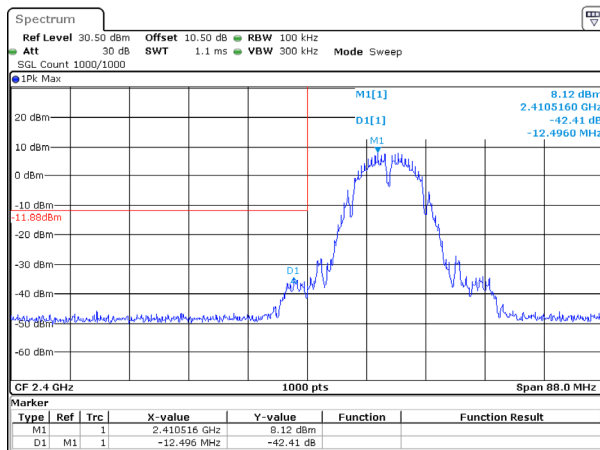
802.11n20_2462MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:32:47

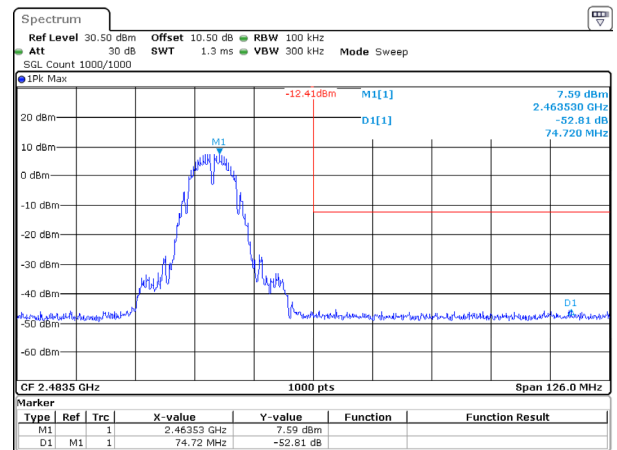
100 kHz Bandwidth of Frequency Band Edge

802.11b_2412MHz



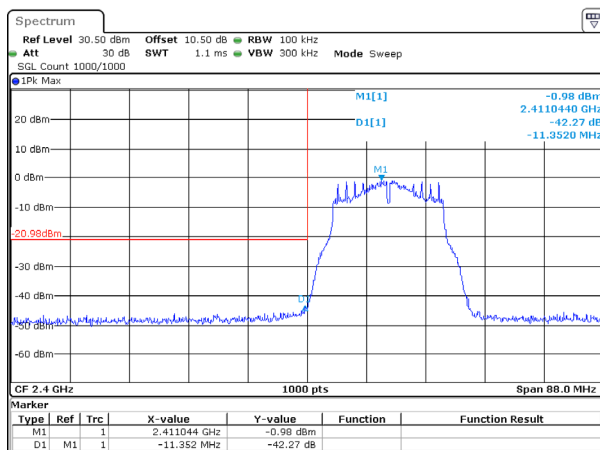
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:08:23

802.11b_2462MHz



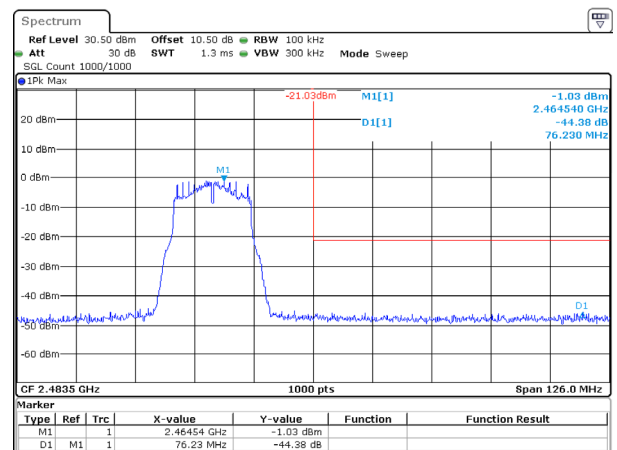
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:10:51

802.11g_2412MHz



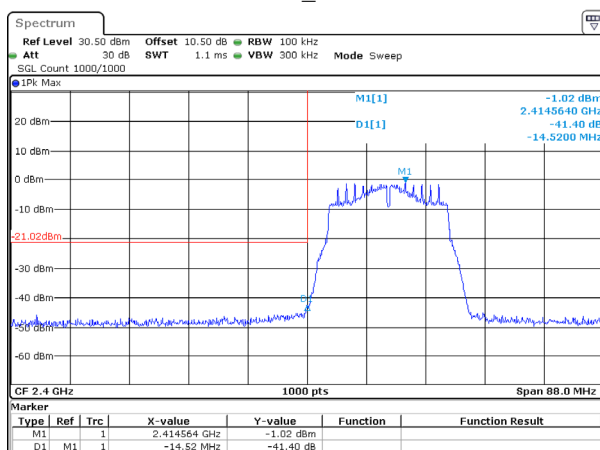
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:20:47

802.11g_2462MHz



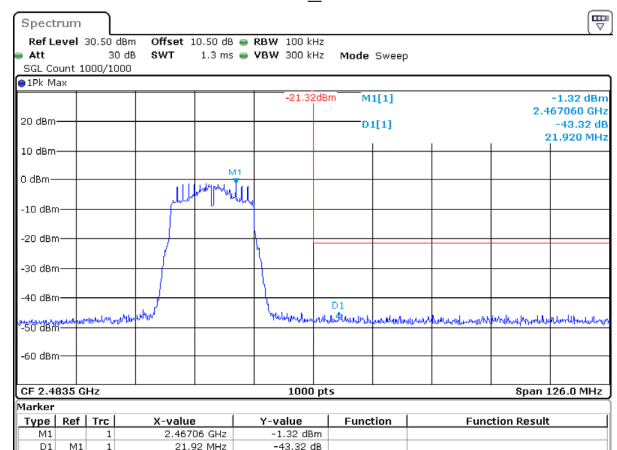
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:23:47

802.11n20_2412MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:28:45

802.11n20_2462MHz



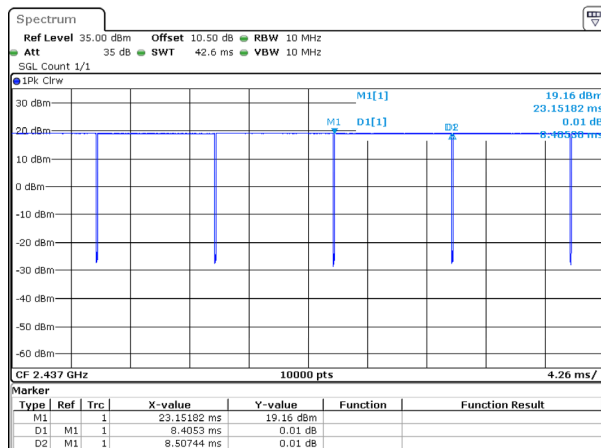
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:32:12

Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2437	8.405	8.507	98.80	/	/	0.010
802.11g	2437	1.396	1.498	93.19	0.31	716	1
802.11n20	2437	1.334	1.437	92.83	0.32	750	1

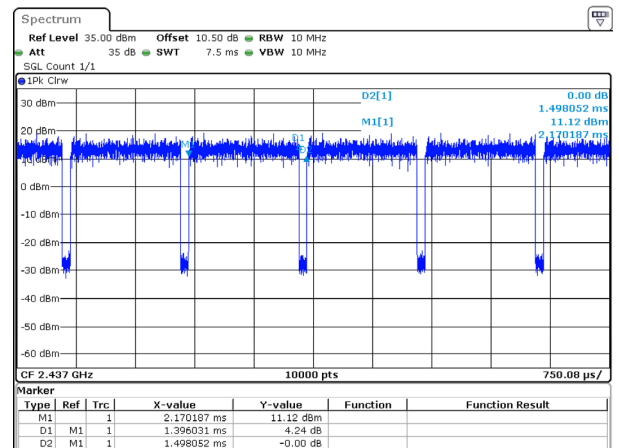
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz



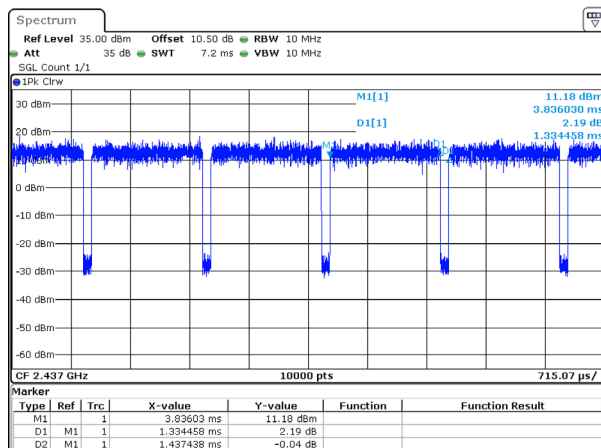
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:34:08

802.11g_2437MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:38:54

802.11n20_2437MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 16:39:34