

Appendix A- 2.4GWi-Fi for Module YL43752 ANT0

Test Information:

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

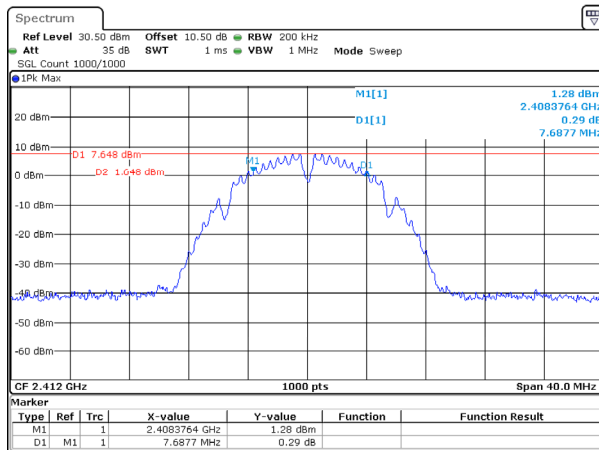
Environmental Conditions:

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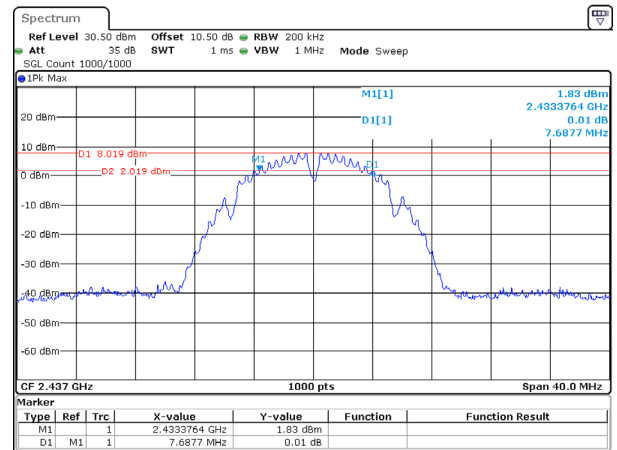
6dB Emission Bandwidth

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	16.416	≥ 0.5	Pass
	2437	16.416	≥ 0.5	Pass
	2462	16.336	≥ 0.5	Pass
802.11n20	2412	17.498	≥ 0.5	Pass
	2437	17.698	≥ 0.5	Pass
	2462	17.618	≥ 0.5	Pass
802.11ax20_RU_Full	2412	18.739	≥ 0.5	Pass
	2437	18.779	≥ 0.5	Pass
	2462	18.899	≥ 0.5	Pass

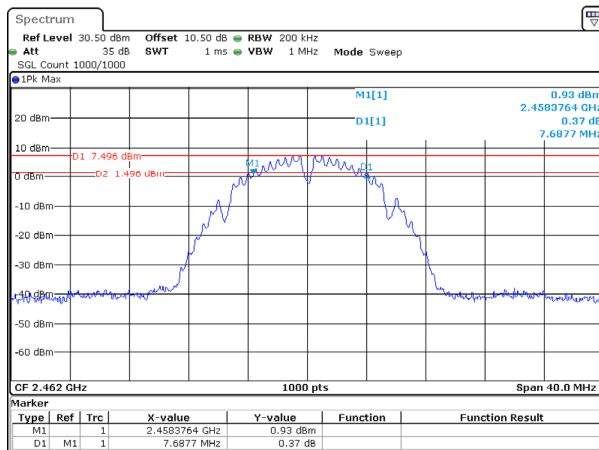
802.11b_2412MHz



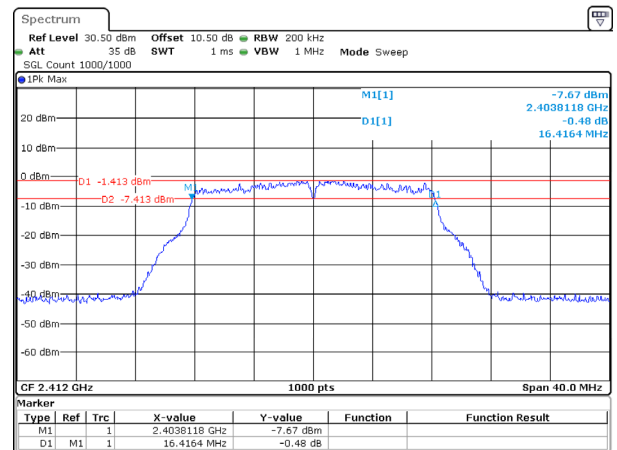
802.11b_2437MHz



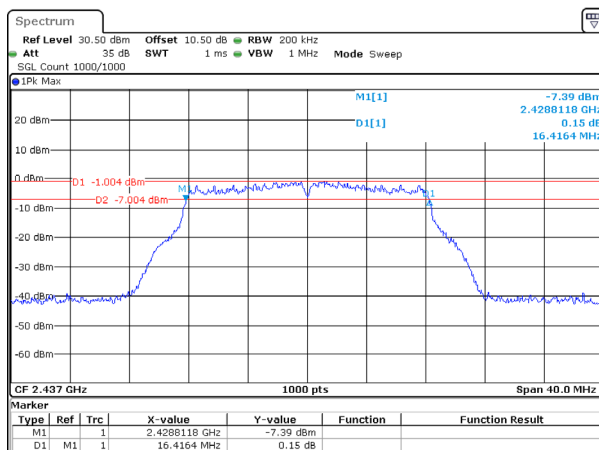
802.11b_2462MHz



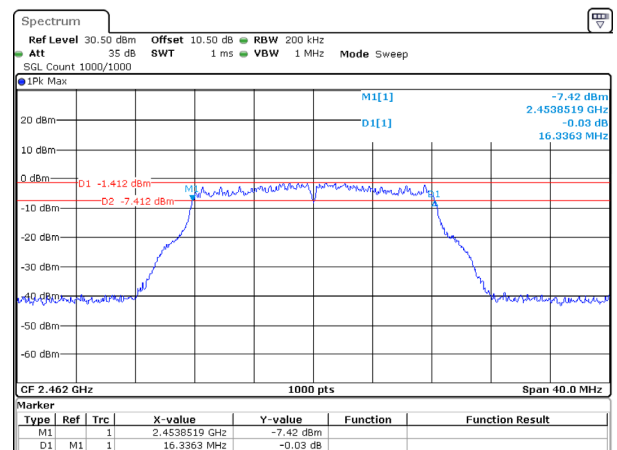
802.11g_2412MHz



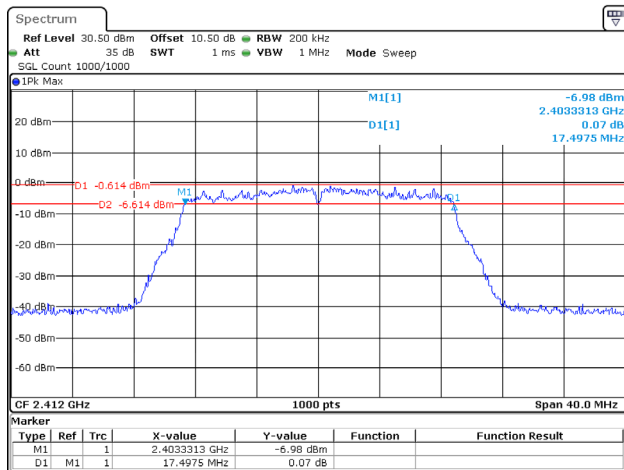
802.11g_2437MHz



802.11g_2462MHz

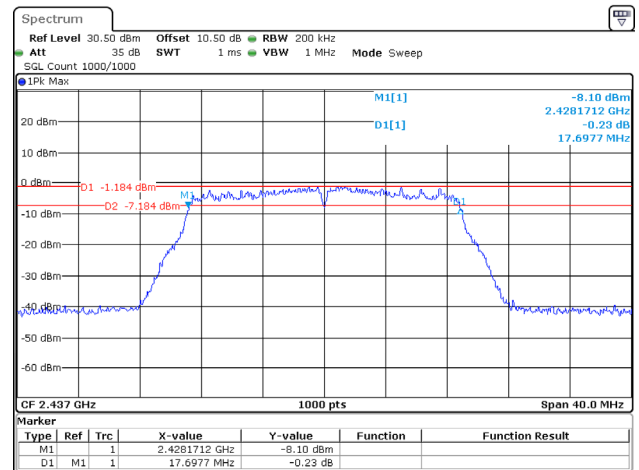


802.11n20_2412MHz



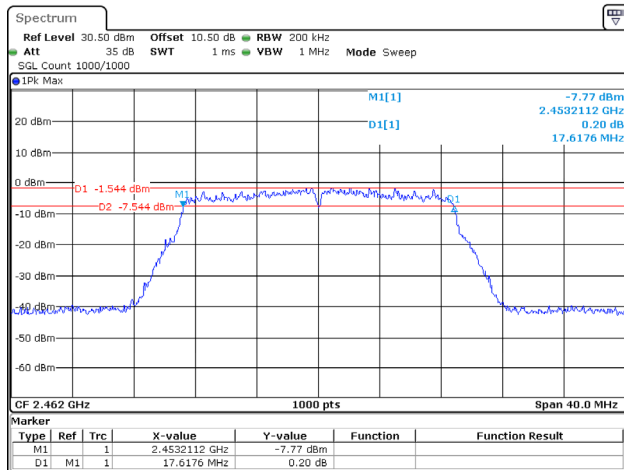
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:24:00

802.11n20_2437MHz



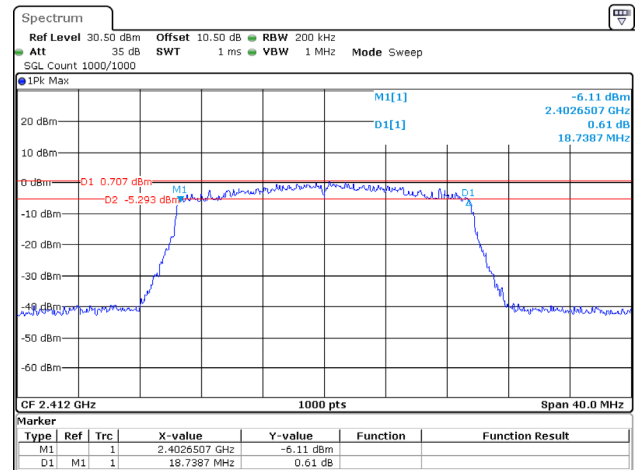
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:27:02

802.11n20_2462MHz



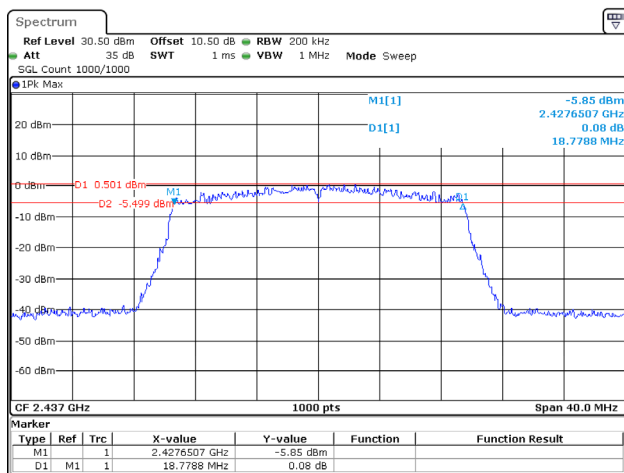
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:29:51

802.11ax20_2412MHz_RU_Full



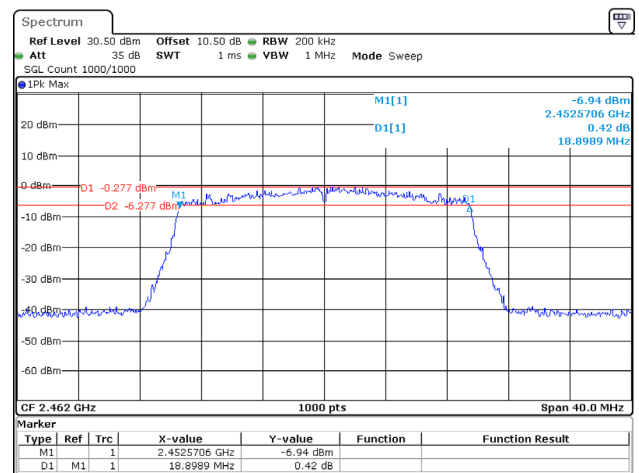
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:33:52

802.11ax20_2437MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:37:13

802.11ax20_2462MHz_RU_Full

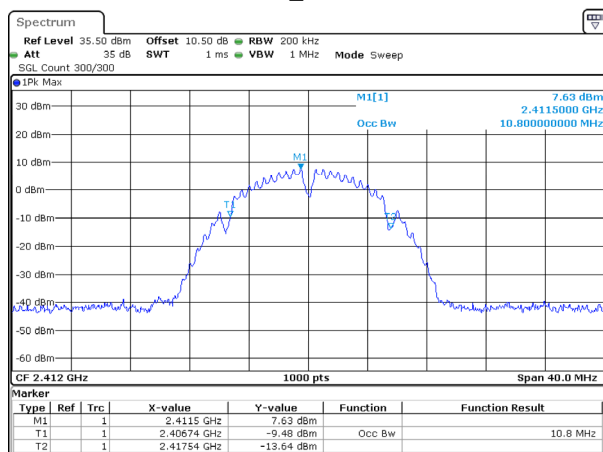


ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:40:20

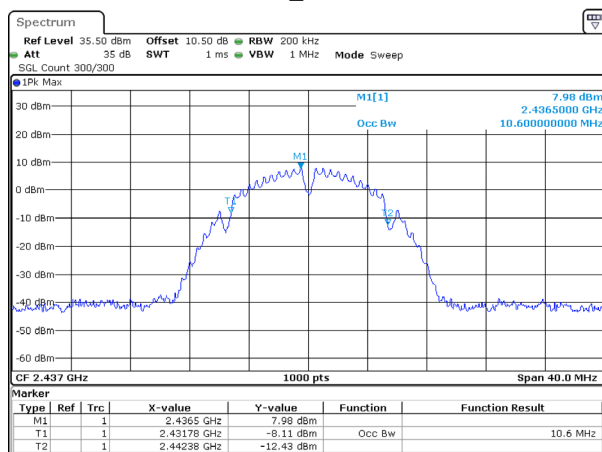
99% Occupied Bandwidth

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	10.800
	2437	10.600
	2462	10.760
802.11g	2412	16.600
	2437	16.600
	2462	16.600
802.11n20	2412	17.720
	2437	17.760
	2462	17.760
802.11ax20_RU_Full	2412	18.880
	2437	18.920
	2462	18.880

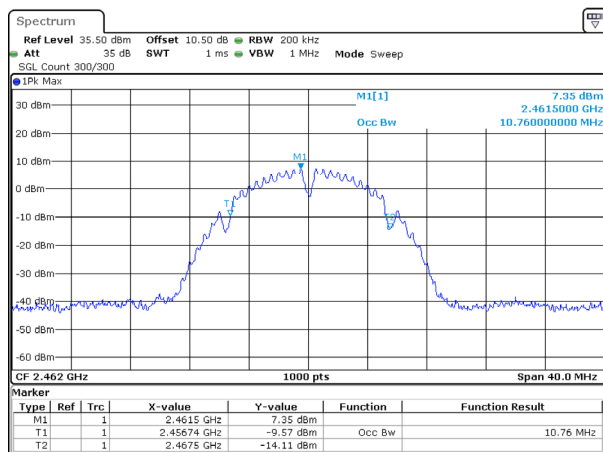
802.11b_2412MHz



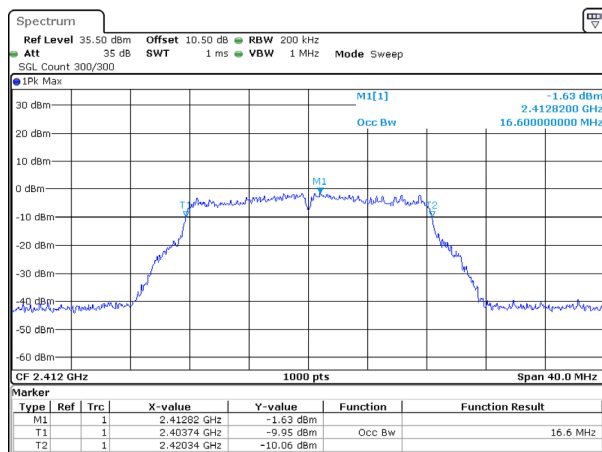
802.11b_2437MHz



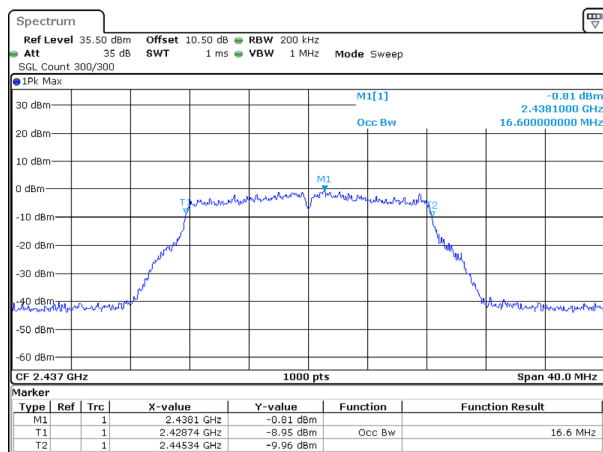
802.11b_2462MHz



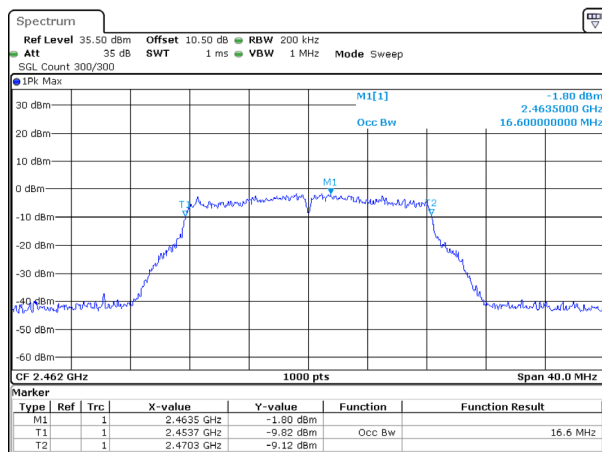
802.11g_2412MHz



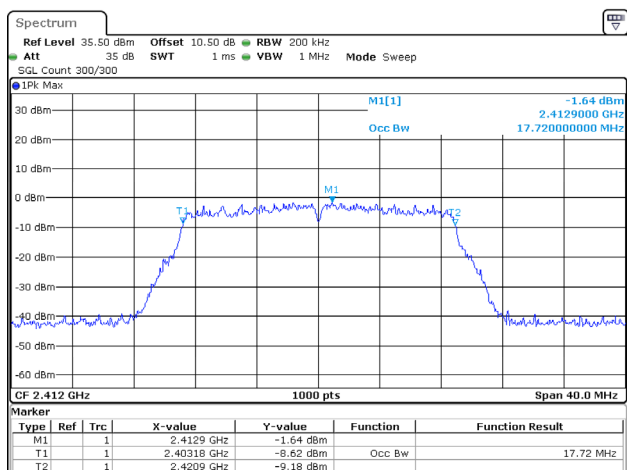
802.11g_2437MHz



802.11g_2462MHz

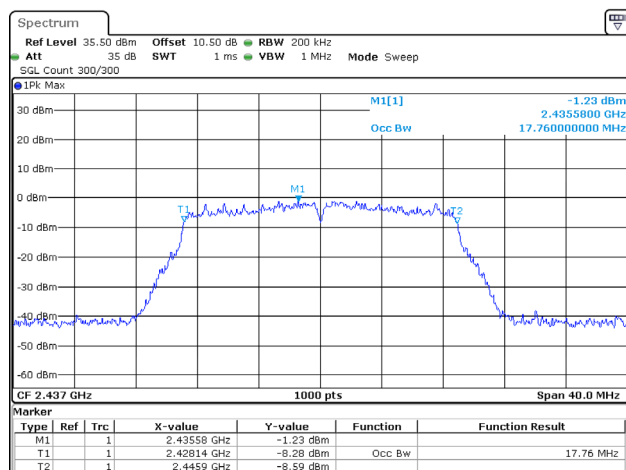


802.11n20_2412MHz



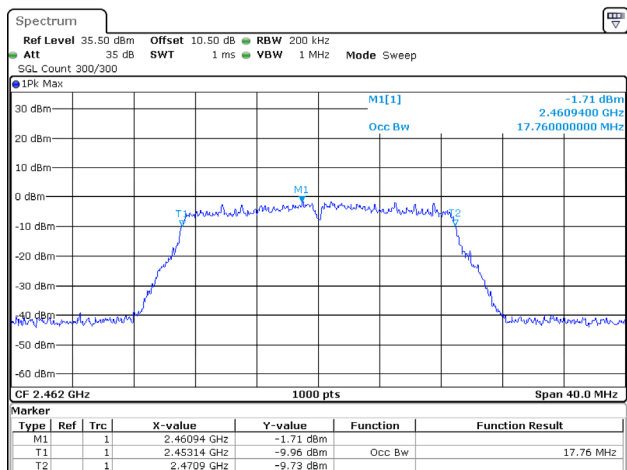
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:24:24

802.11n20_2437MHz



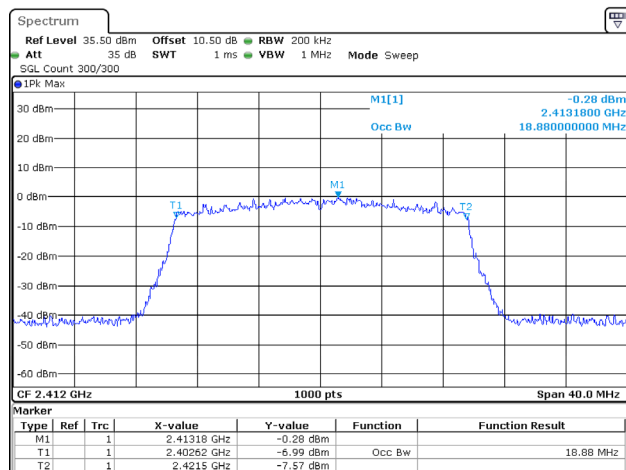
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:27:23

802.11n20_2462MHz



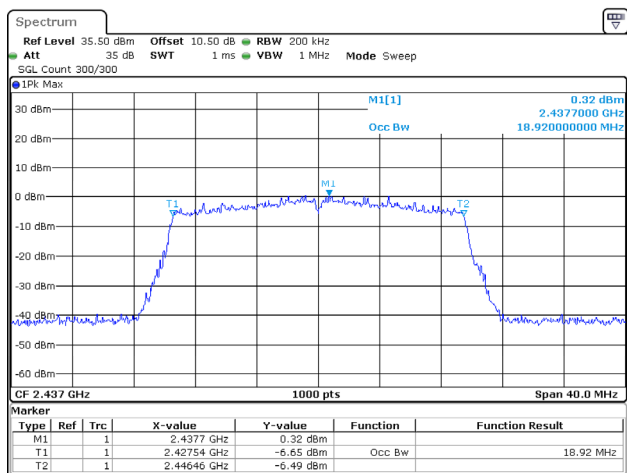
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:30:13

802.11ax20_2412MHz_RU_Full



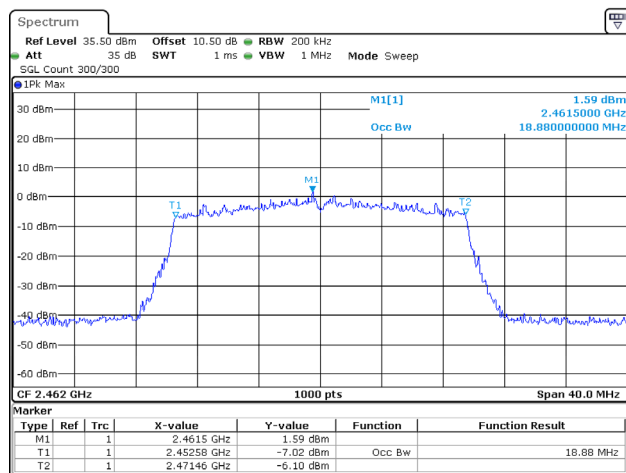
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:34:16

802.11ax20_2437MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:37:35

802.11ax20_2462MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:40:43

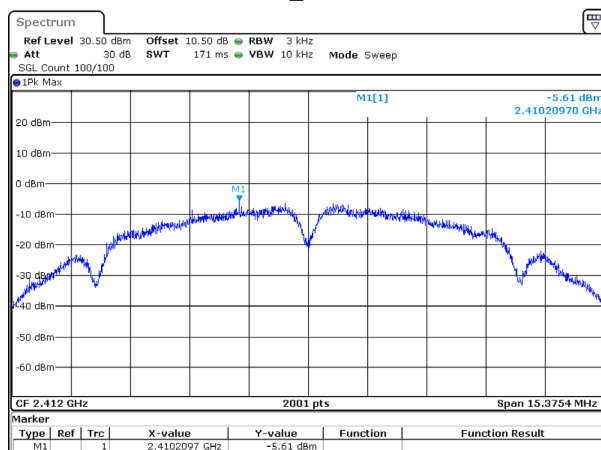
Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
802.11b	2412	18.23	30	4.67	22.9	36	Pass
	2437	18.57	30	4.67	23.24	36	Pass
	2462	18.06	30	4.67	22.73	36	Pass
802.11g	2412	16.44	30	4.67	21.11	36	Pass
	2437	16.65	30	4.67	21.32	36	Pass
	2462	16.05	30	4.67	20.72	36	Pass
802.11n20	2412	16.33	30	4.67	21.00	36	Pass
	2437	16.52	30	4.67	21.19	36	Pass
	2462	16.00	30	4.67	20.67	36	Pass
802.11ax20_R U_Full	2412	17.34	30	4.67	22.01	36	Pass
	2437	17.33	30	4.67	22.00	36	Pass
	2462	16.66	30	4.67	21.33	36	Pass

Power Spectral Density

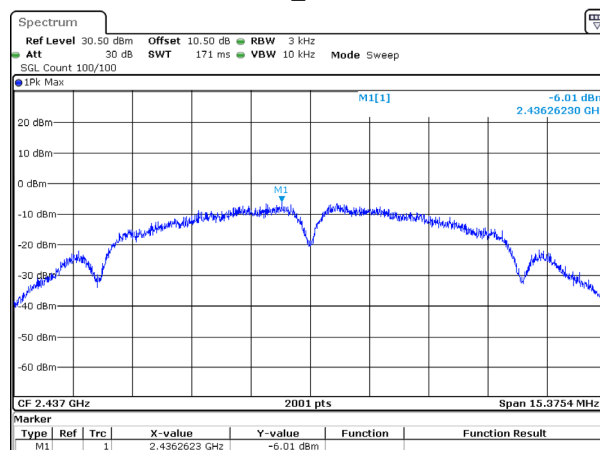
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-5.61	8	Pass
	2437	-6.01	8	Pass
	2462	-5.19	8	Pass
802.11g	2412	-14.66	8	Pass
	2437	-14.34	8	Pass
	2462	-15.12	8	Pass
802.11n20	2412	-15.30	8	Pass
	2437	-15.11	8	Pass
	2462	-14.98	8	Pass
802.11ax20_RU_Full	2412	-14.47	8	Pass
	2437	-14.94	8	Pass
	2462	-15.85	8	Pass

802.11b_2412MHz



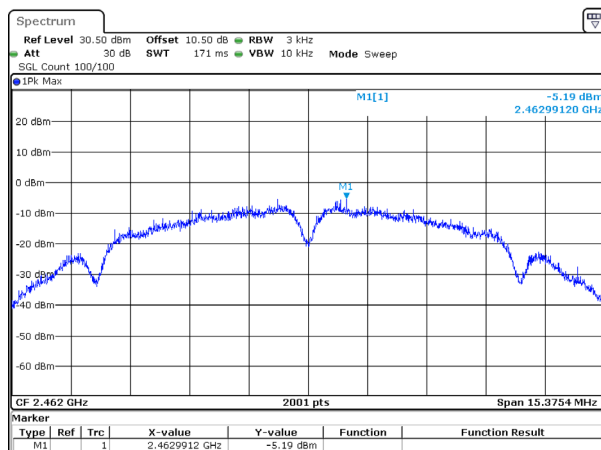
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:06:22

802.11b_2437MHz



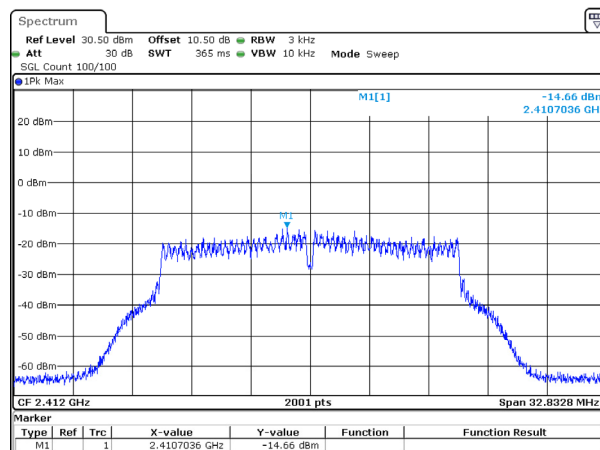
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:08:58

802.11b_2462MHz



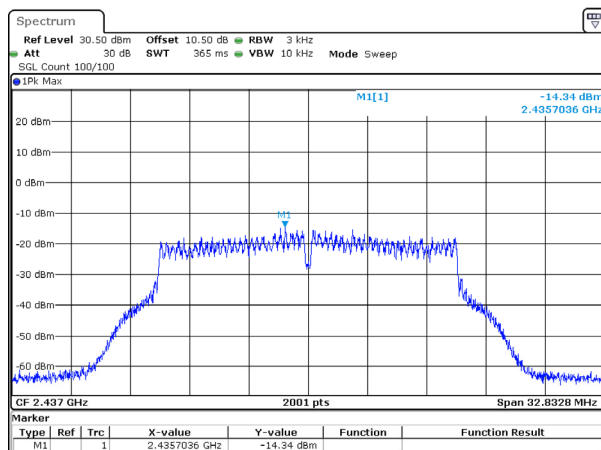
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:11:23

802.11g_2412MHz



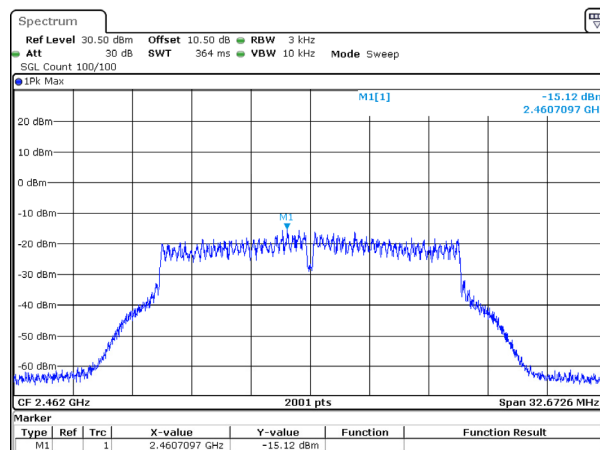
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:14:38

802.11g_2437MHz



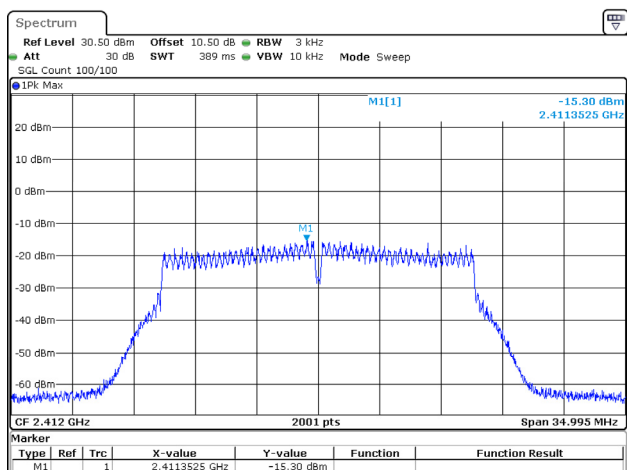
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:17:19

802.11g_2462MHz



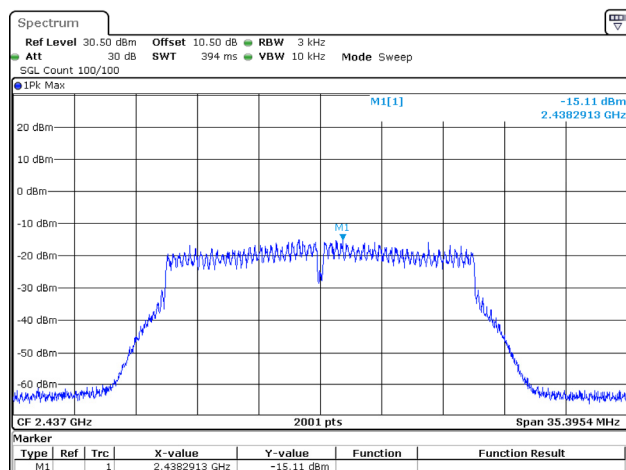
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:21:14

802.11n20_2412MHz



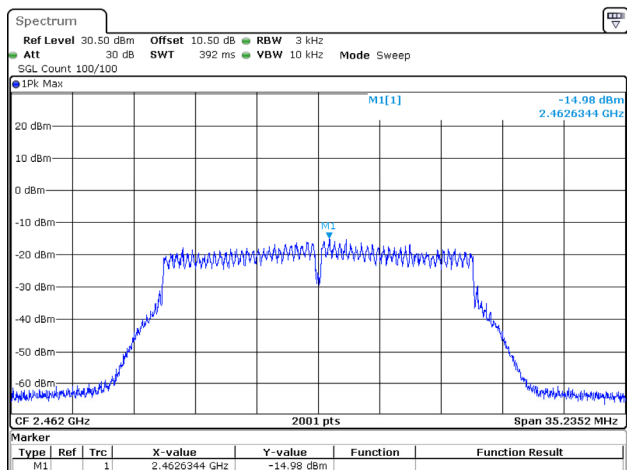
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:25:59

802.11n20_2437MHz



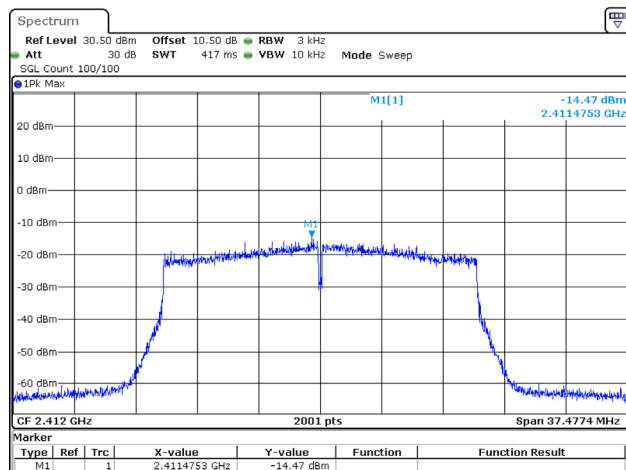
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:28:40

802.11n20_2462MHz



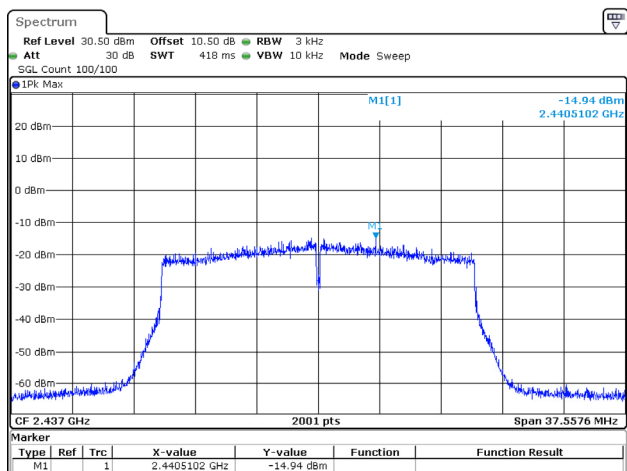
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:32:28

802.11ax20_2412MHz_RU_Full



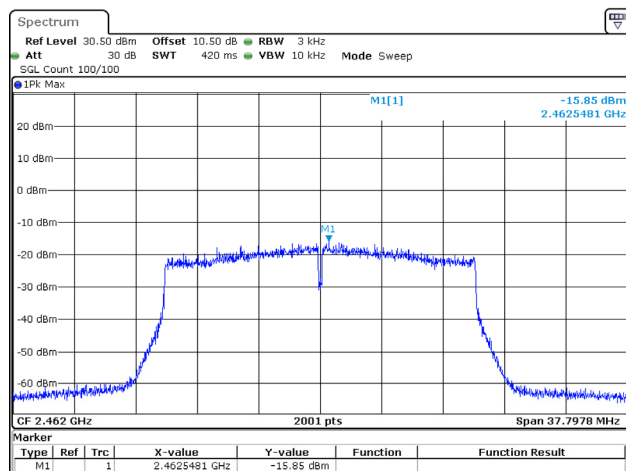
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:36:12

802.11ax20_2437MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:39:17

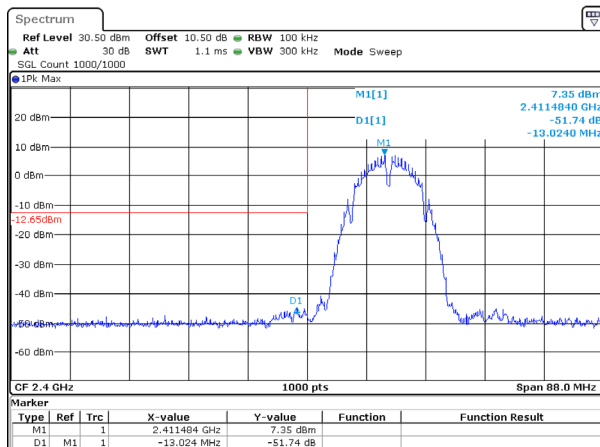
802.11ax20_2462MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:42:23

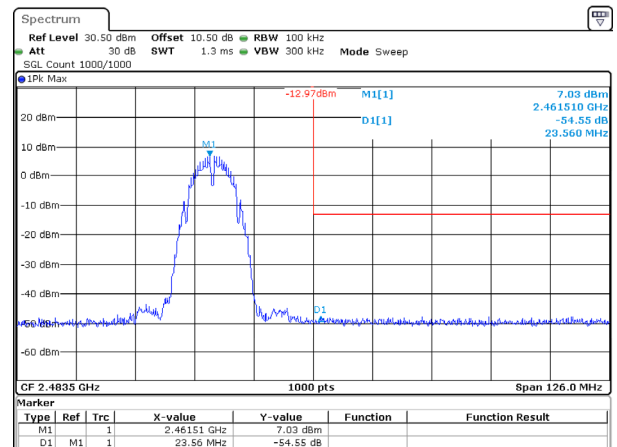
100 kHz Bandwidth of Frequency Band Edge

802.11b_2412MHz



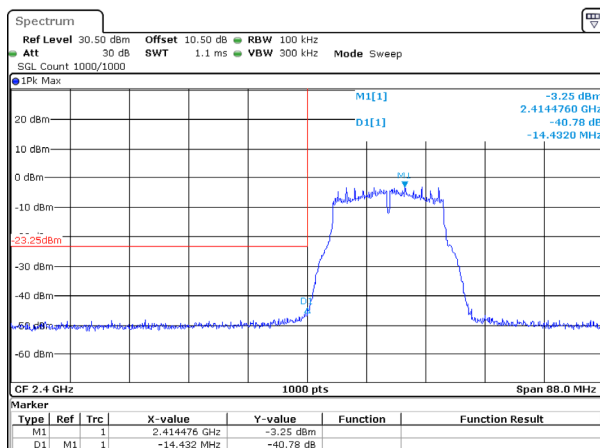
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Date: 23.MAY.2025 14:04:52

802.11b_2462MHz



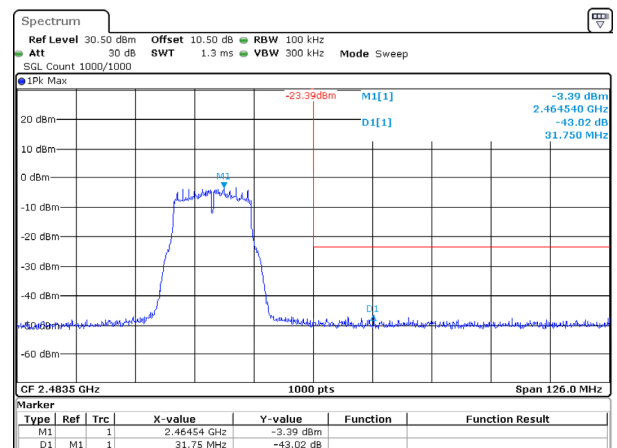
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Date: 23.MAY.2025 14:10:50

802.11g_2412MHz



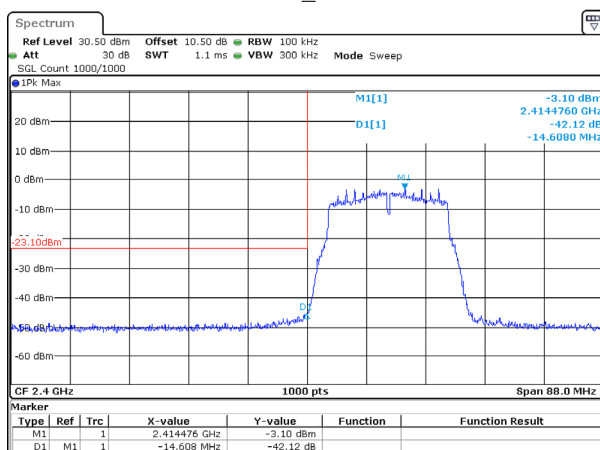
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:13:39

802.11g_2462MHz



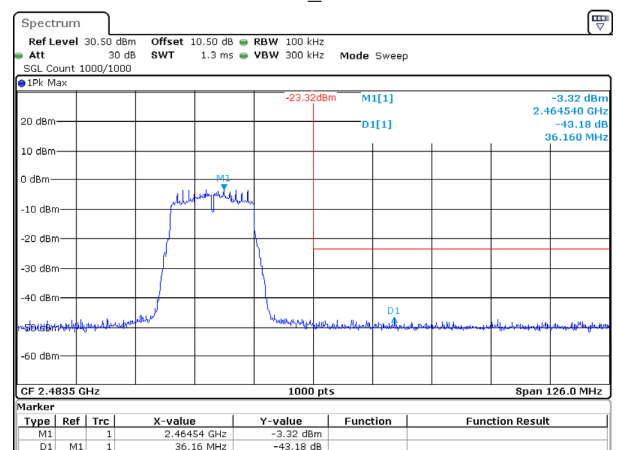
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:20:15

802.11n20_2412MHz



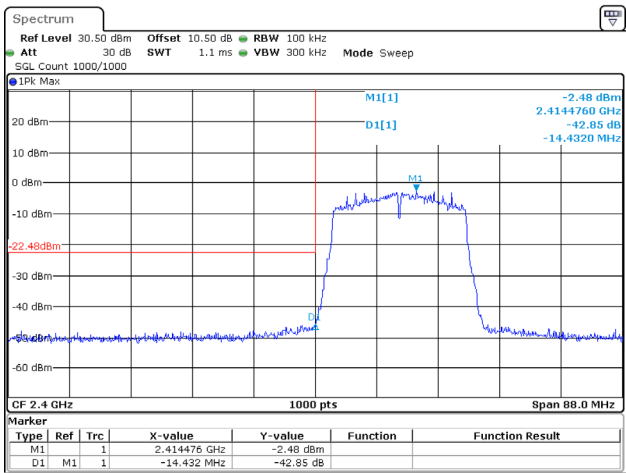
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Date: 23.MAY.2025 14:24:57

802.11n20_2462MHz



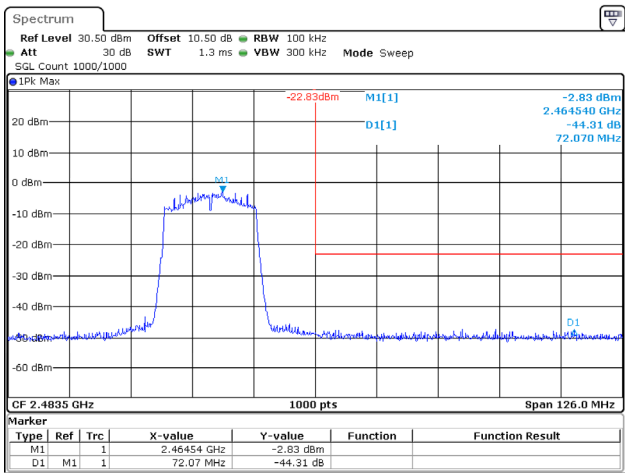
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:31:23

802.11ax20_2412MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:35:04

802.11ax20_2462MHz_RU_Full



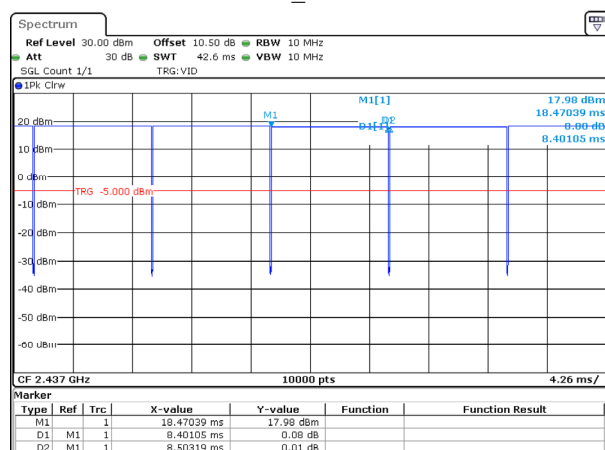
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:41:16

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	8.401	8.503	98.80	/	/	0.010
802.11g	2437	1.385	1.485	93.27	0.30	722	1
802.11n20	2437	1.295	1.395	92.83	0.32	772	1
802.11ax20_RU_Full	2437	1.006	1.105	91.04	0.41	994	1

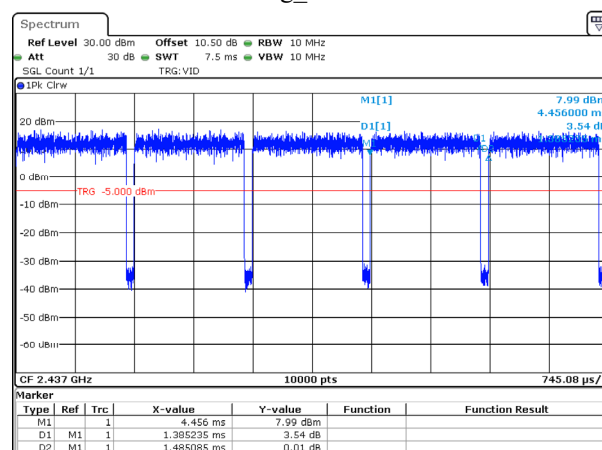
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz



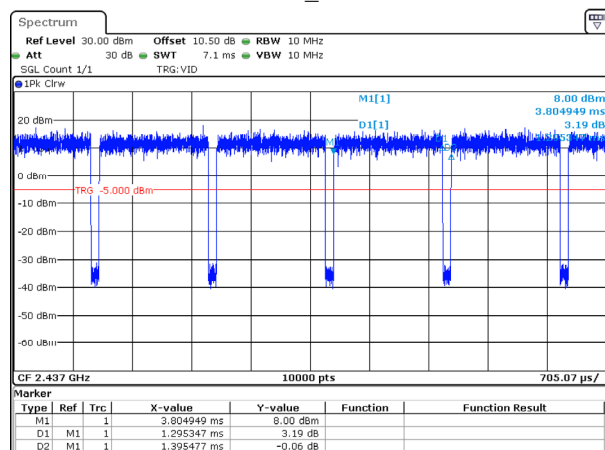
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:59:36

802.11g_2437MHz



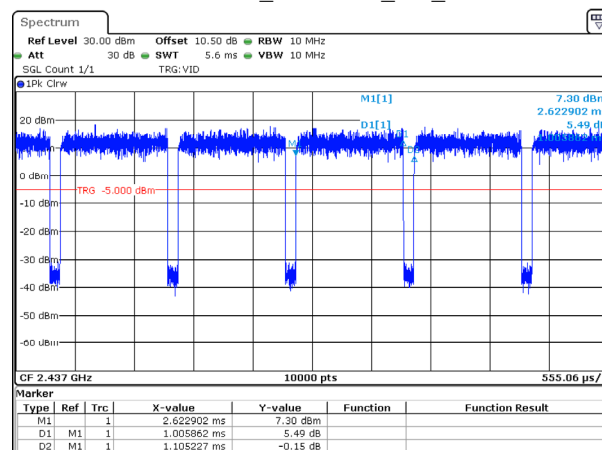
ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:00:21

802.11n20_2437MHz



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:00:57

802.11ax20_2437MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT0 Tester:Rainbow Zhu
Date: 23.MAY.2025 14:01:39