

Appendix A1-Module YL43752 ANT1 2.4G Wi-Fi

Test Information:

Sample No.:	2VNH-6	Test Date:	2024/12/29~2025/05/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

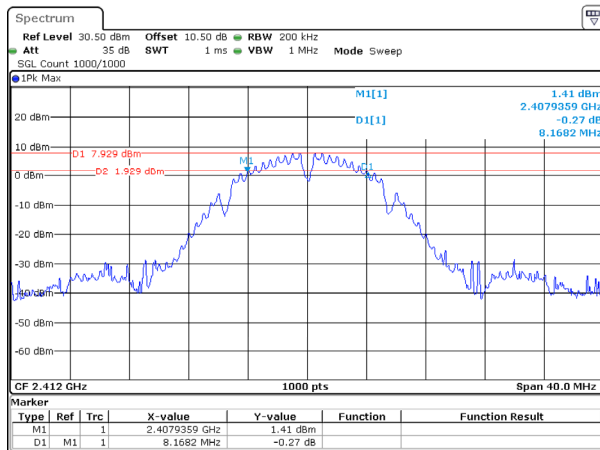
Environmental Conditions:

Temperature: (°C)	25.2~26.3	Relative Humidity: (%)	34~46	ATM Pressure: (kPa)	100.5~101
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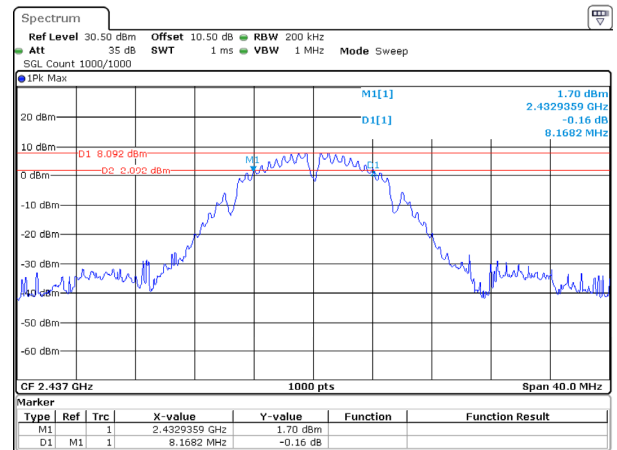
6dB Emission Bandwidth

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	8.168	≥ 0.5	Pass
	2437	8.168	≥ 0.5	Pass
	2462	8.168	≥ 0.5	Pass
802.11g	2412	16.416	≥ 0.5	Pass
	2437	16.256	≥ 0.5	Pass
	2462	16.376	≥ 0.5	Pass
802.11n20	2412	17.457	≥ 0.5	Pass
	2437	17.538	≥ 0.5	Pass
	2462	17.497	≥ 0.5	Pass
802.11ax20_RU_Full	2412	18.979	≥ 0.5	Pass
	2437	18.498	≥ 0.5	Pass
	2462	17.938	≥ 0.5	Pass

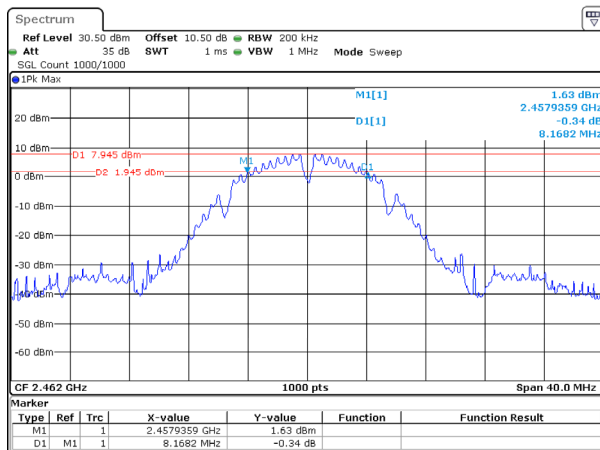
802.11b_2412MHz



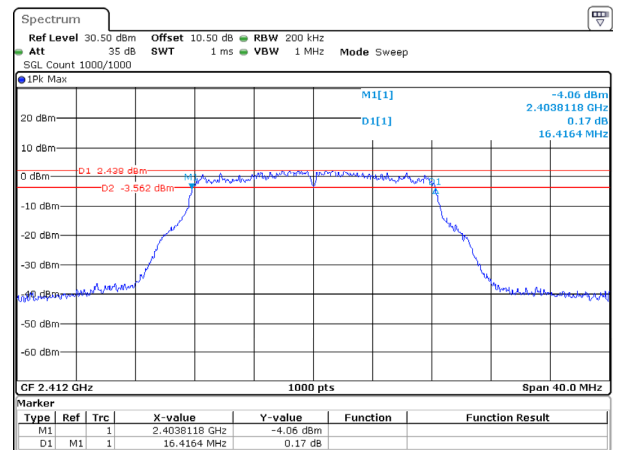
802.11b_2437MHz



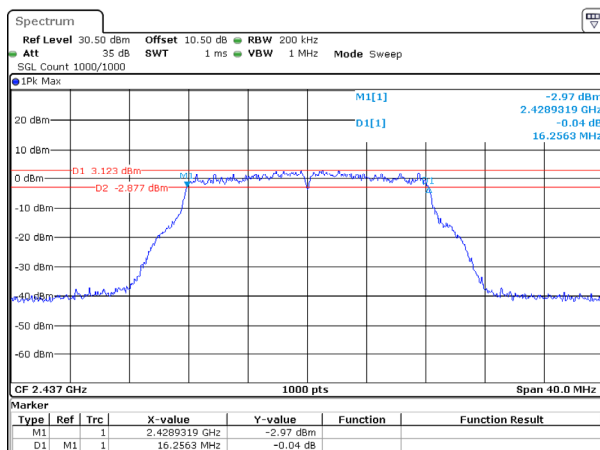
802.11b_2462MHz



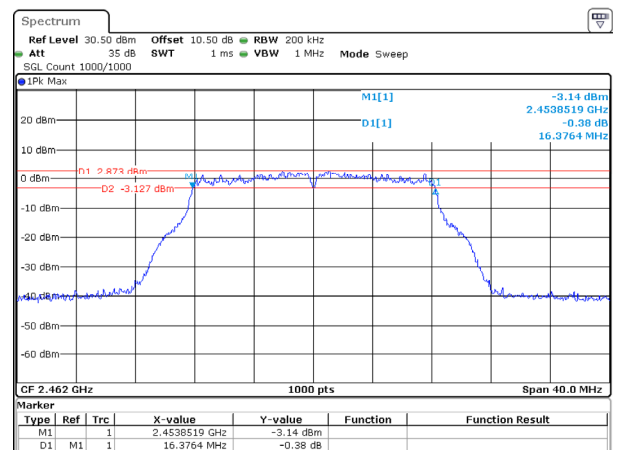
802.11g_2412MHz



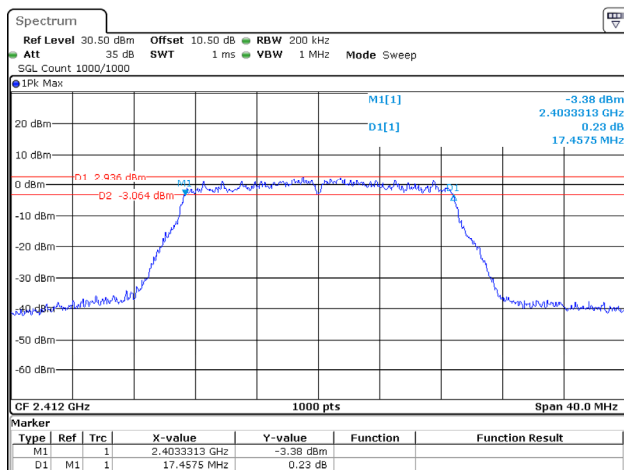
802.11g_2437MHz



802.11g_2462MHz

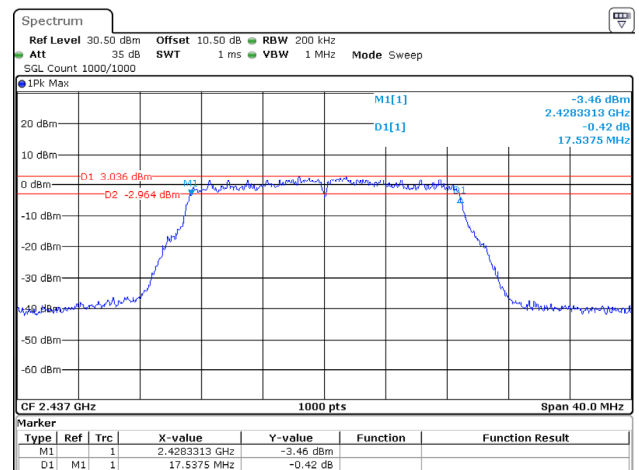


802.11n20_2412MHz



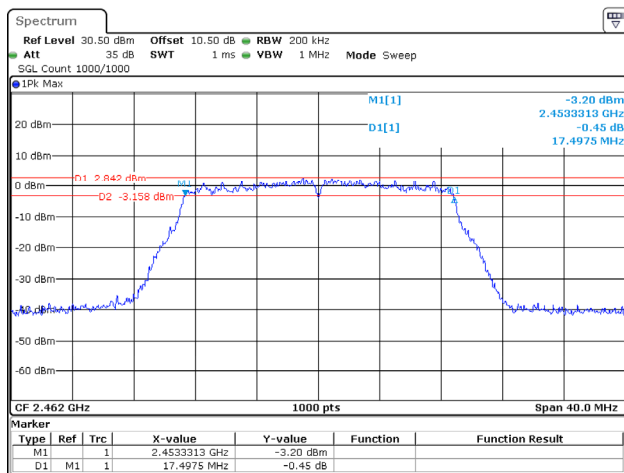
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Date: 16.MAY.2025 16:19:36

802.11n20_2437MHz



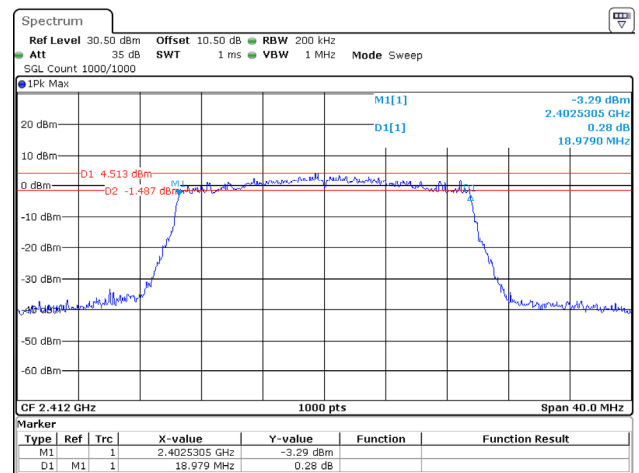
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Date: 16.MAY.2025 16:20:28

802.11n20_2462MHz



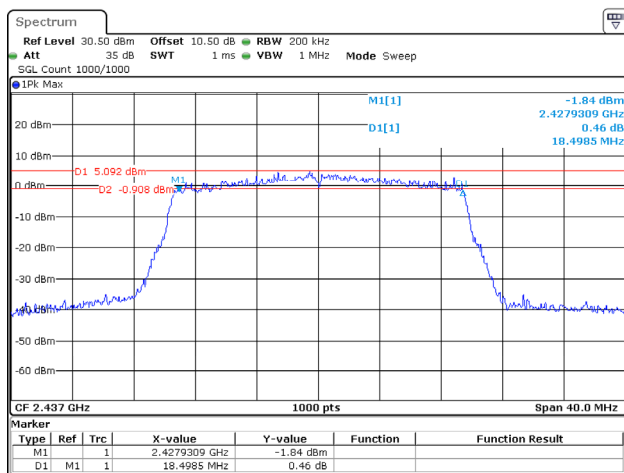
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 16.MAY.2025 16:21:31

802.11ax20_2412MHz_RU_Full



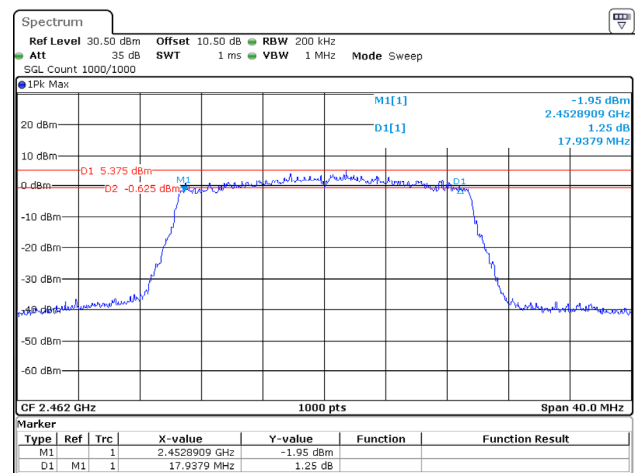
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Date: 16.MAY.2025 16:22:41

802.11ax20_2437MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 16.MAY.2025 16:23:44

802.11ax20_2462MHz_RU_Full

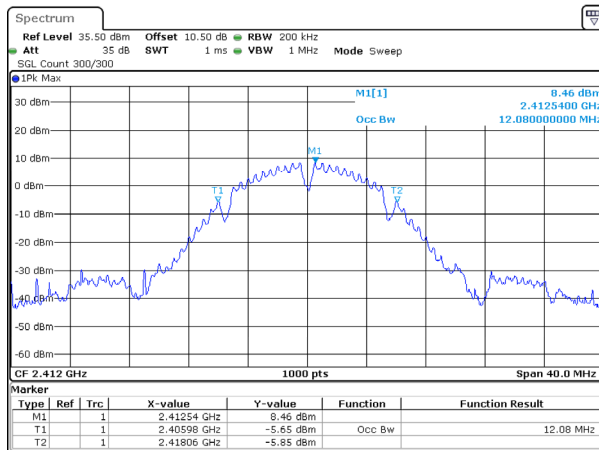


ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 16.MAY.2025 16:25:13

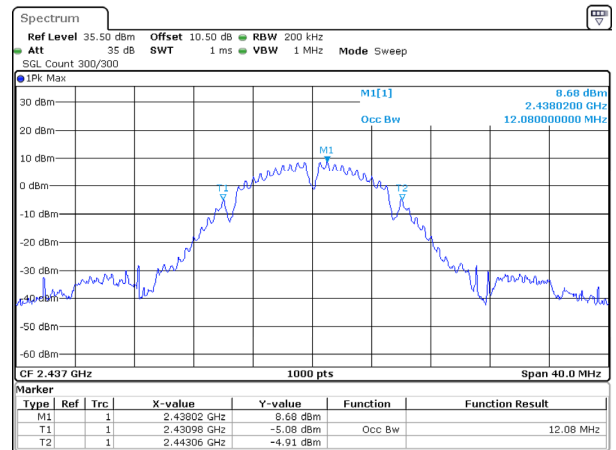
99% Occupied Bandwidth

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	12.080
	2437	12.080
	2462	12.080
802.11g	2412	16.560
	2437	16.560
	2462	16.560
802.11n20	2412	17.720
	2437	17.720
	2462	17.720
802.11ax20_RU_Full	2412	18.880
	2437	18.880
	2462	18.880

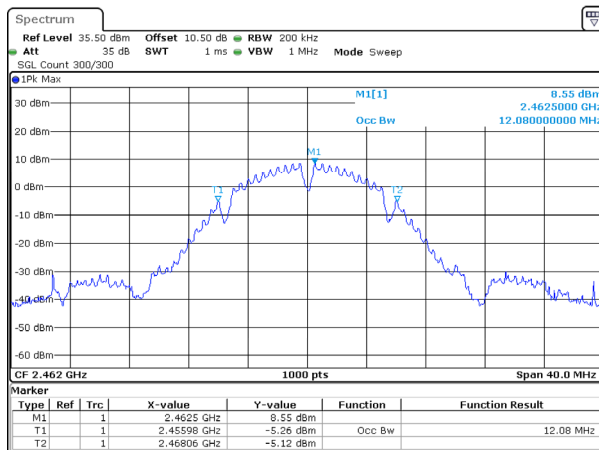
802.11b_2412MHz



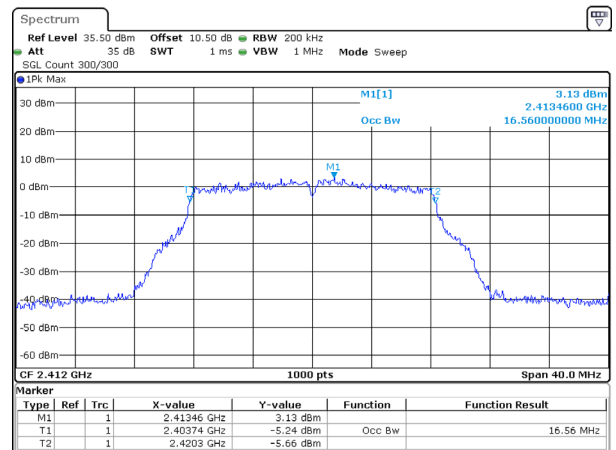
802.11b_2437MHz



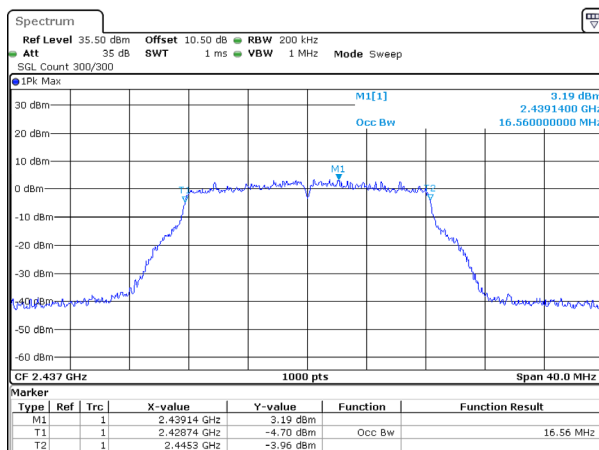
802.11b_2462MHz



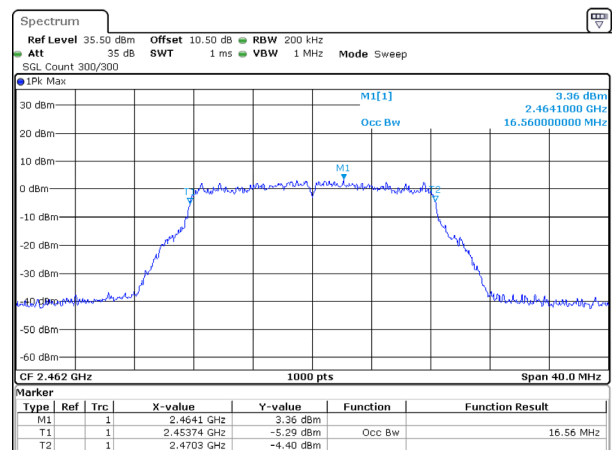
802.11g_2412MHz



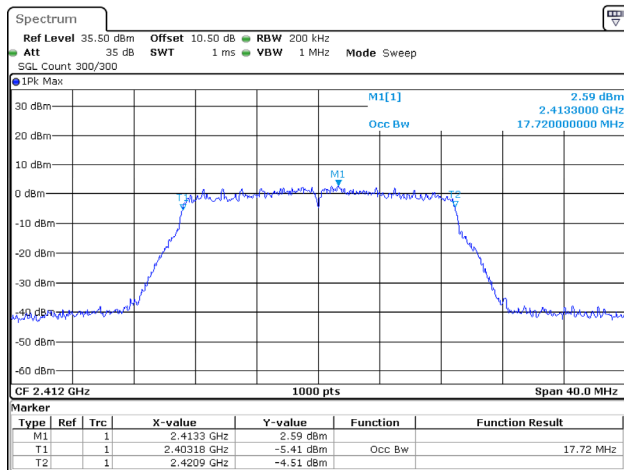
802.11g_2437MHz



802.11g_2462MHz

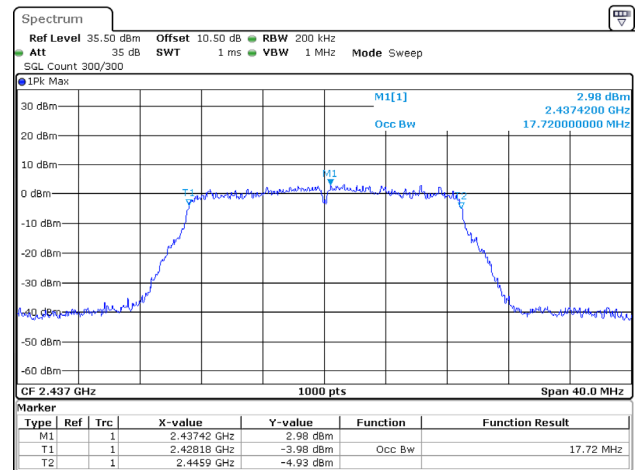


802.11n20_2412MHz



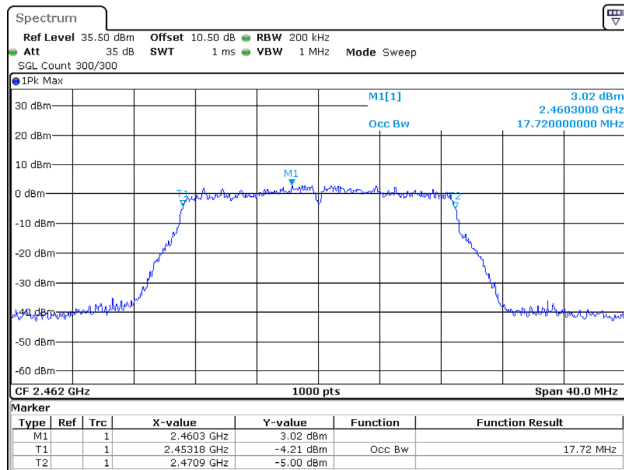
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Date: 29.DEC.2024 22:35:57

802.11n20_2437MHz



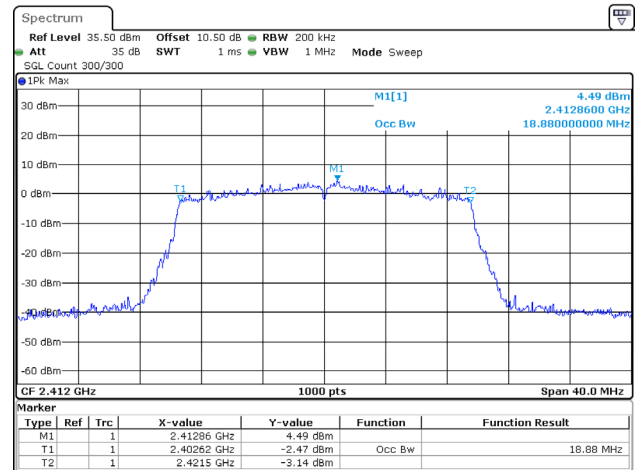
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaaster Liang
Date: 29.DEC.2024 22:39:12

802.11n20_2462MHz



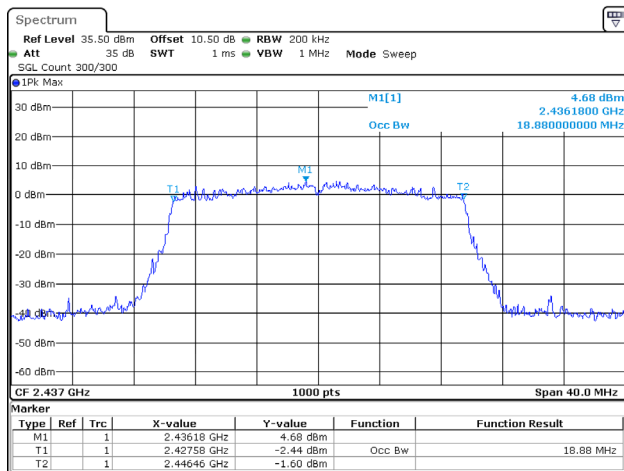
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Date: 29.DEC.2024 22:42:11

802.11ax20_2412MHz_RU_Full



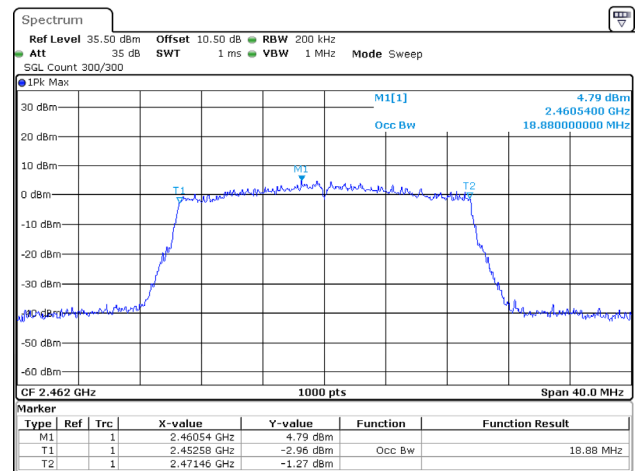
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaaster Liang
Date: 29.DEC.2024 22:46:02

802.11ax20_2437MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaaster Liang
Date: 29.DEC.2024 22:49:29

802.11ax20_2462MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaaster Liang
Date: 29.DEC.2024 22:52:40

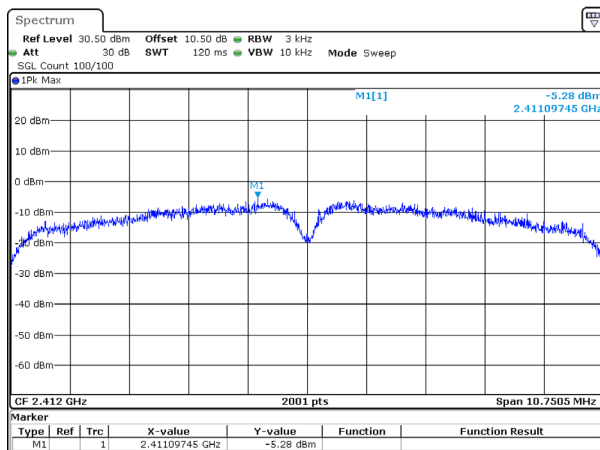
Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
802.11b	2412	19.18	15.87	30	23.67	36	Pass
	2437	19.53	16.17	30	24.02	36	Pass
	2462	19.23	16.01	30	23.72	36	Pass
802.11g	2412	20.48	13.12	30	24.97	36	Pass
	2437	21.01	13.63	30	25.50	36	Pass
	2462	20.78	13.36	30	25.27	36	Pass
802.11n20	2412	20.29	12.68	30	24.78	36	Pass
	2437	20.83	13.15	30	25.32	36	Pass
	2462	20.70	13.08	30	25.19	36	Pass
802.11ax20_RU_Full	2412	21.14	12.93	30	25.63	36	Pass
	2437	21.67	13.40	30	26.16	36	Pass
	2462	21.36	13.15	30	25.85	36	Pass

Power Spectral Density

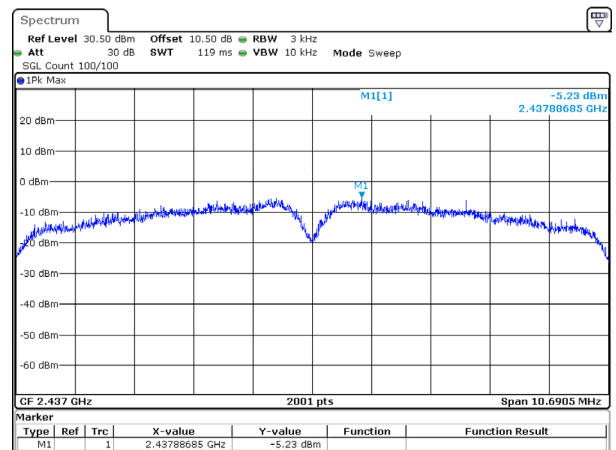
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-5.28	8	Pass
	2437	-5.23	8	Pass
	2462	-4.89	8	Pass
802.11g	2412	-10.25	8	Pass
	2437	-9.94	8	Pass
	2462	-10.34	8	Pass
802.11n20	2412	-10.68	8	Pass
	2437	-11.09	8	Pass
	2462	-10.92	8	Pass
802.11ax20_RU_Full	2412	-11.55	8	Pass
	2437	-10.66	8	Pass
	2462	-10.63	8	Pass

802.11b_2412MHz



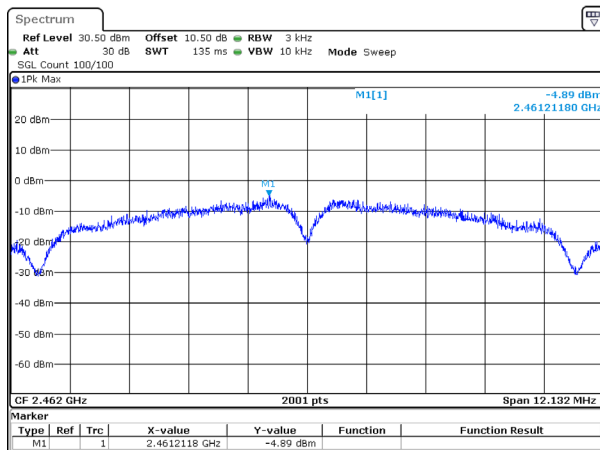
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Date: 29.DEC.2024 22:13:04

802.11b_2437MHz



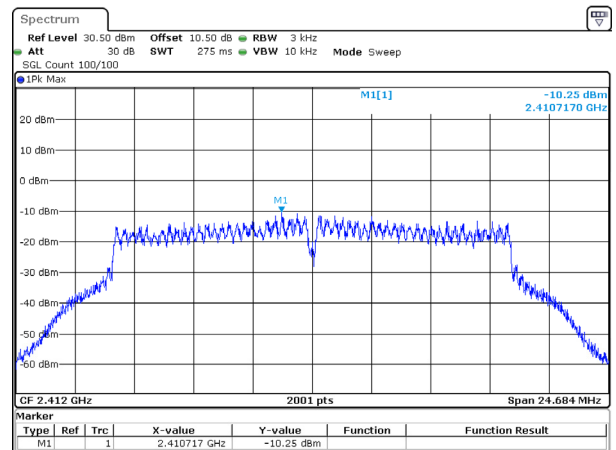
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Date: 29.DEC.2024 22:16:10

802.11b_2462MHz



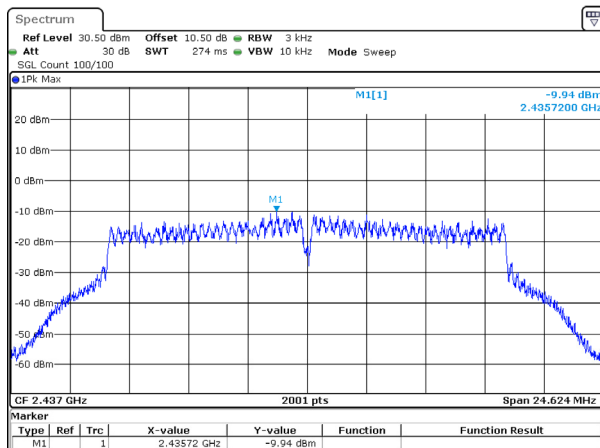
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Rungfaster Liang
Date: 29.DEC.2024 22:21:40

802.11g_2412MHz



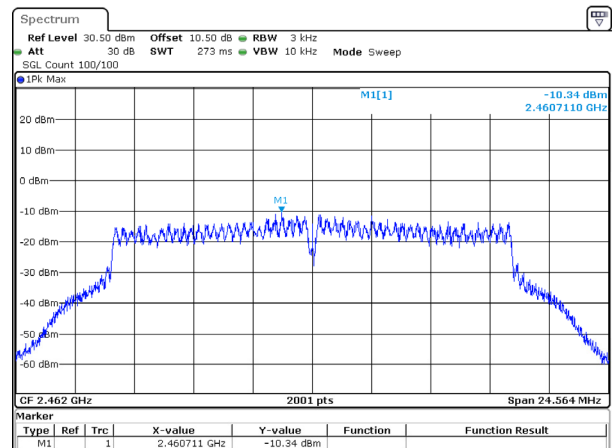
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Rungfaster Liang
Date: 29.DEC.2024 22:25:05

802.11g_2437MHz



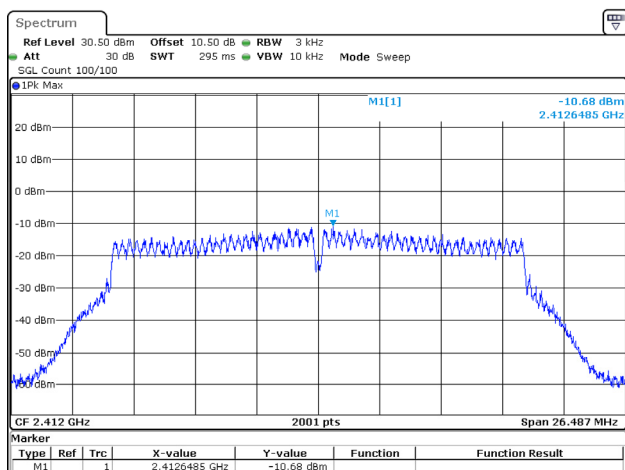
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Rungfaster Liang
Date: 29.DEC.2024 22:28:10

802.11g_2462MHz



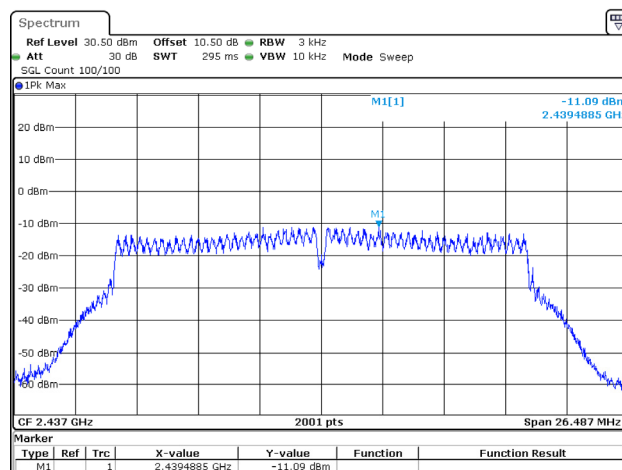
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Rungfaster Liang
Date: 29.DEC.2024 22:32:15

802.11n20_2412MHz



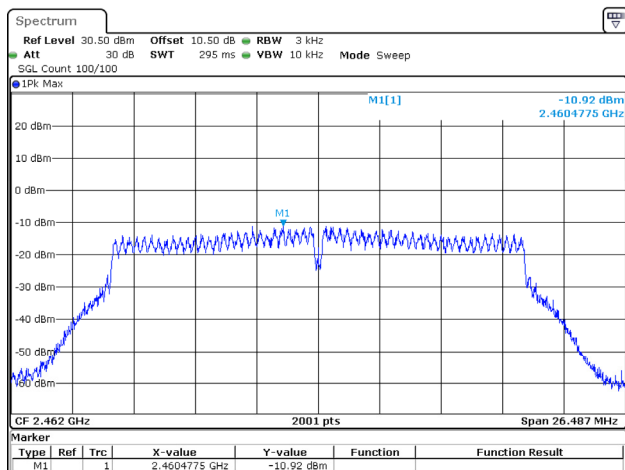
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Date: 29.DEC.2024 22:37:25

802.11n20_2437MHz



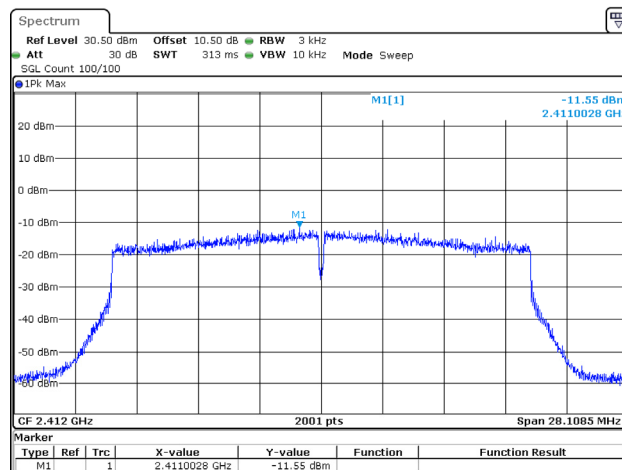
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Date: 29.DEC.2024 22:40:17

802.11n20_2462MHz



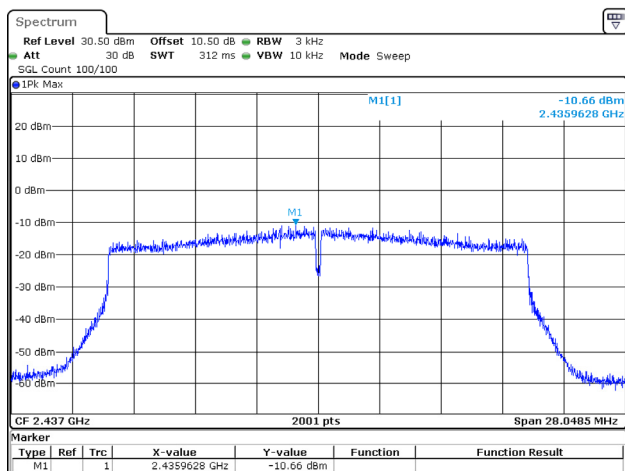
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Date: 29.DEC.2024 22:43:50

802.11ax20_2412MHz_RU_Full



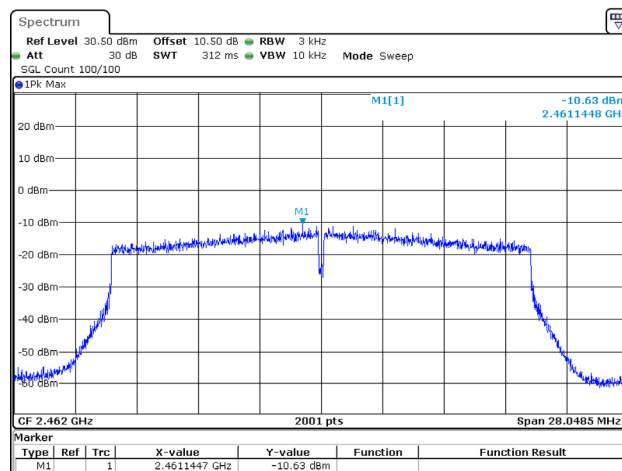
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Date: 29.DEC.2024 22:47:50

802.11ax20_2437MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 29.DEC.2024 22:50:41

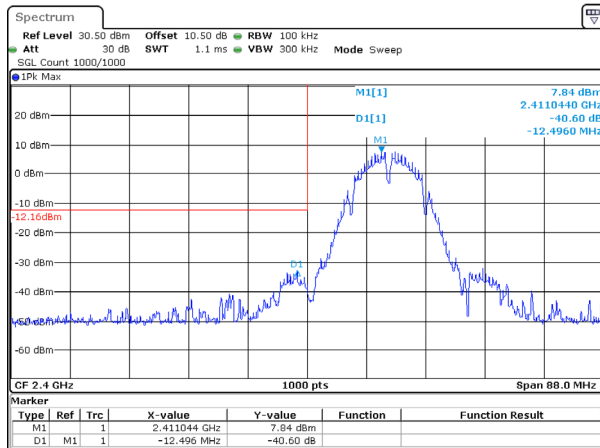
802.11ax20_2462MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaater Liang
Date: 29.DEC.2024 22:54:10

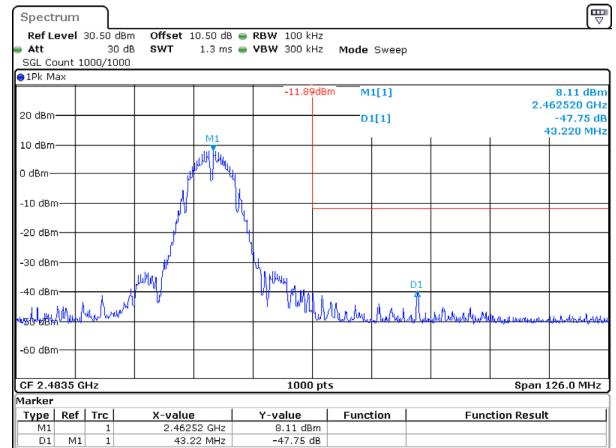
100 kHz Bandwidth of Frequency Band Edge

802.11b_2412MHz



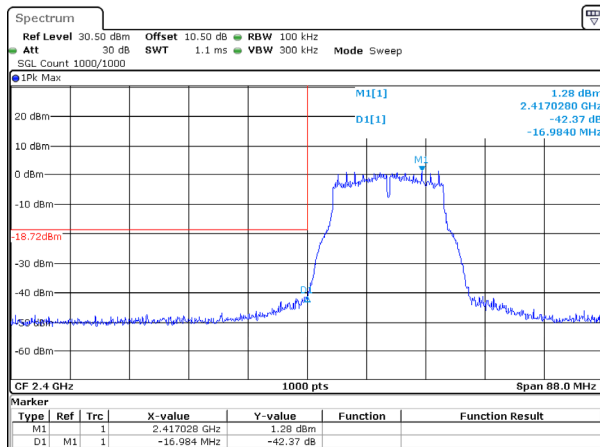
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Date: 29.DEC.2024 22:12:39

802.11b_2462MHz



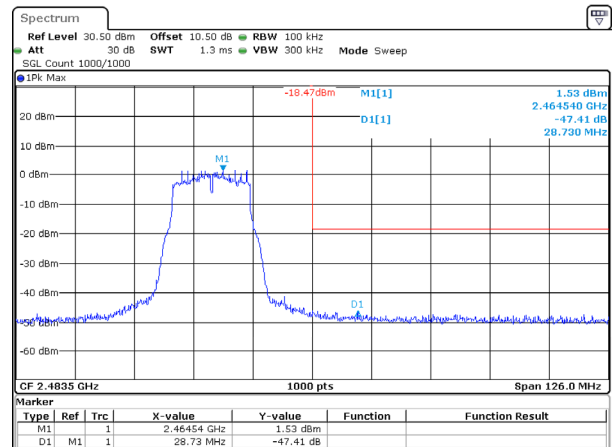
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 22:21:12

802.11g_2412MHz



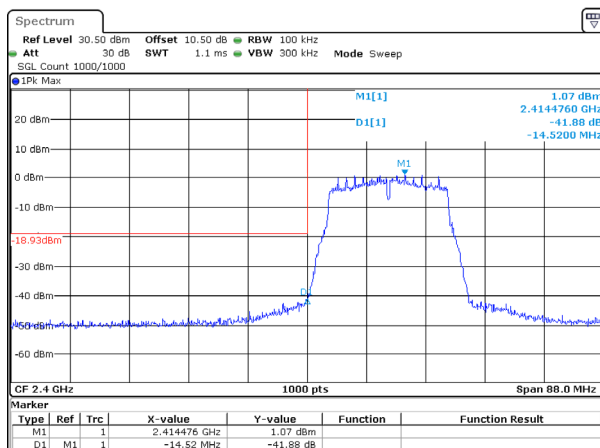
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Date: 29.DEC.2024 22:24:18

802.11g_2462MHz



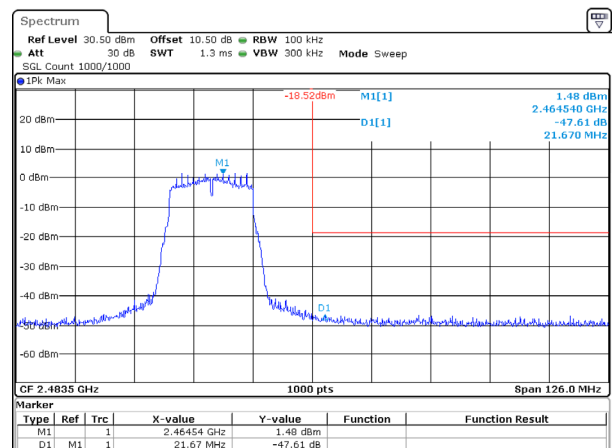
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 22:31:28

802.11n20_2412MHz



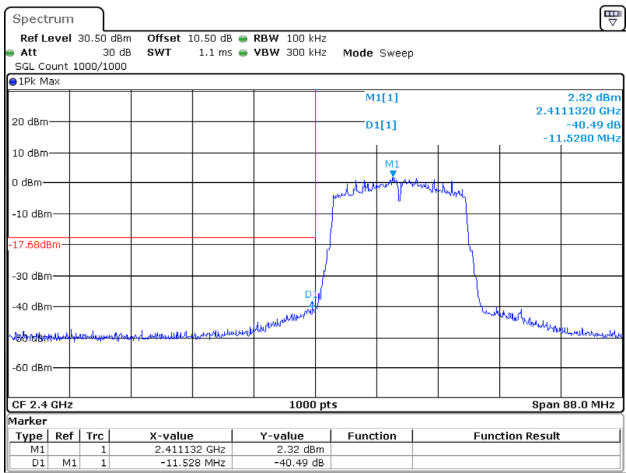
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Date: 29.DEC.2024 22:36:34

802.11n20_2462MHz



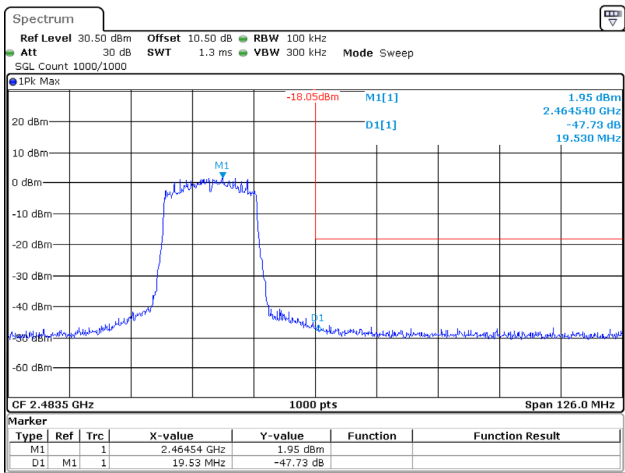
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 22:42:59

802.11ax20_2412MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 22:46:57

802.11ax20_2462MHz_RU_Full



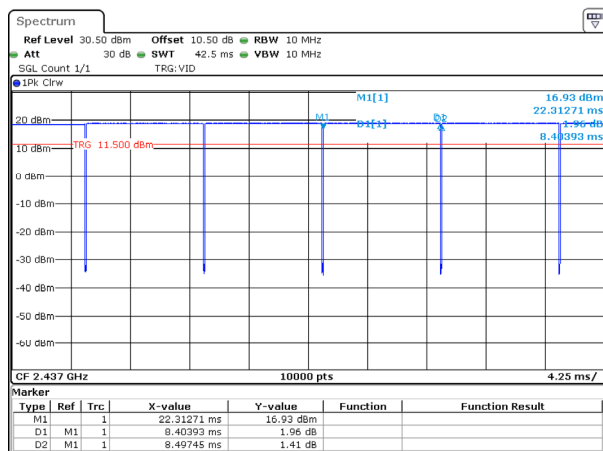
ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 22:53:17

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	8.404	8.497	98.91	/	/	0.010
802.11g	2437	1.385	1.485	93.27	0.30	722	1
802.11n20	2437	1.301	1.400	92.93	0.32	769	1
802.11ax20_RU_Full	2437	1.006	1.105	91.04	0.41	994	1

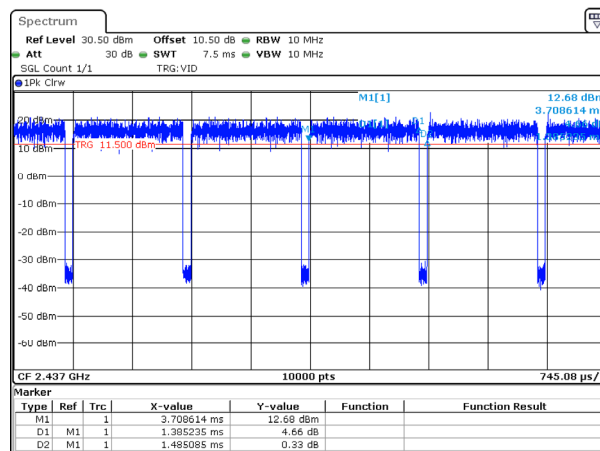
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz



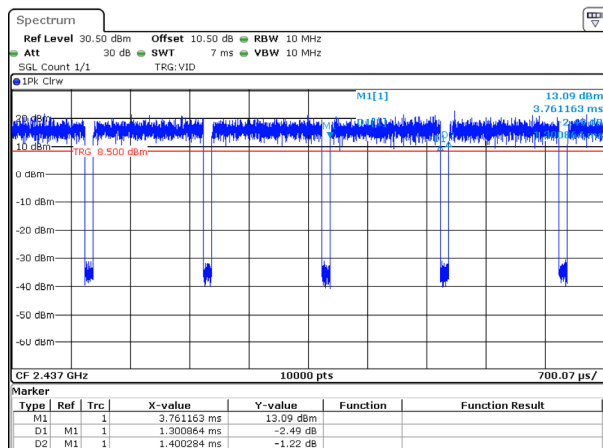
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Date: 29.DEC.2024 21:53:14

802.11g_2437MHz



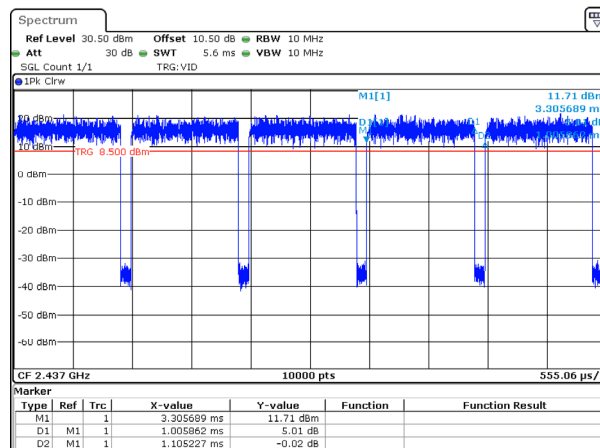
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Date: 29.DEC.2024 21:56:12

802.11n20_2437MHz



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 21:56:54

802.11ax20_2437MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 21:57:45