

Appendix B- 2.4GWi-Fi for Module YL43752 ANT1

Test Information:

Sample No.:	2Y0T-2	Test Date:	2025/02/18~2025/05/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

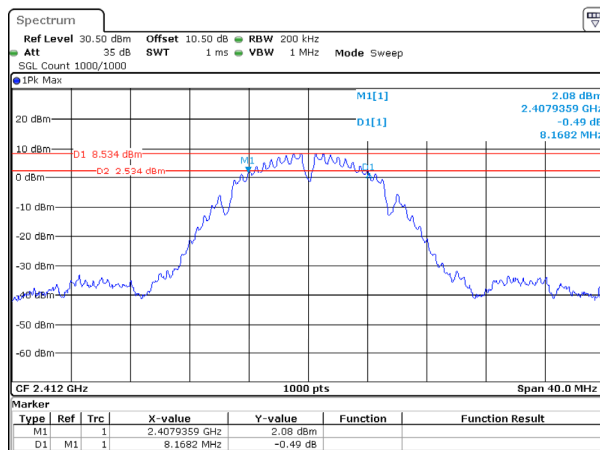
Environmental Conditions:

Temperature: (°C)	23.2~26.1	Relative Humidity: (%)	45~46	ATM Pressure: (kPa)	100.0~101.7
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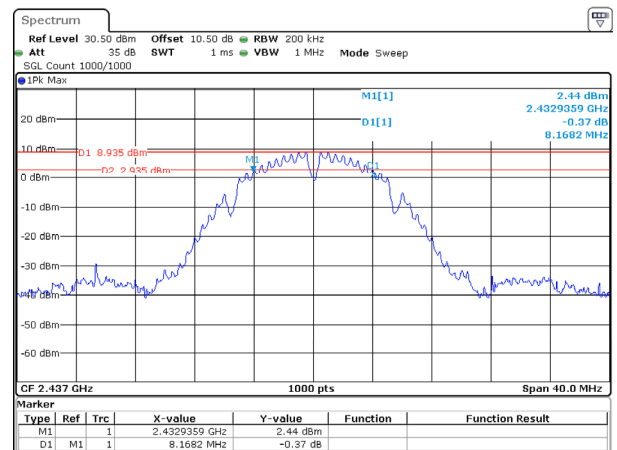
6dB Emission Bandwidth

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	16.376	≥ 0.5	Pass
	2437	16.416	≥ 0.5	Pass
	2462	16.376	≥ 0.5	Pass
802.11n20	2412	17.658	≥ 0.5	Pass
	2437	17.498	≥ 0.5	Pass
	2462	17.618	≥ 0.5	Pass
802.11ax20_RU_Full	2412	18.859	≥ 0.5	Pass
	2437	18.659	≥ 0.5	Pass
	2462	18.619	≥ 0.5	Pass

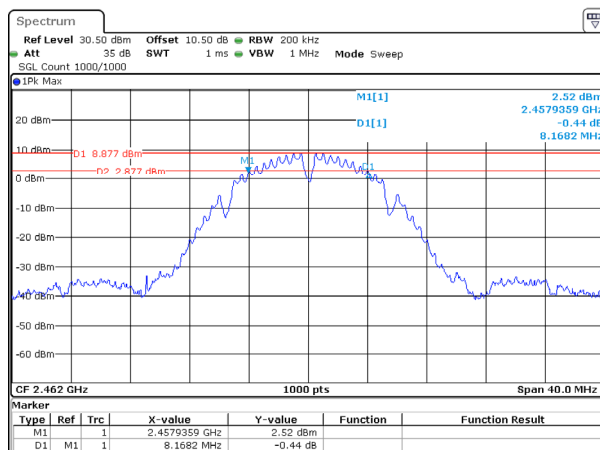
802.11b_2412MHz_Chain 1



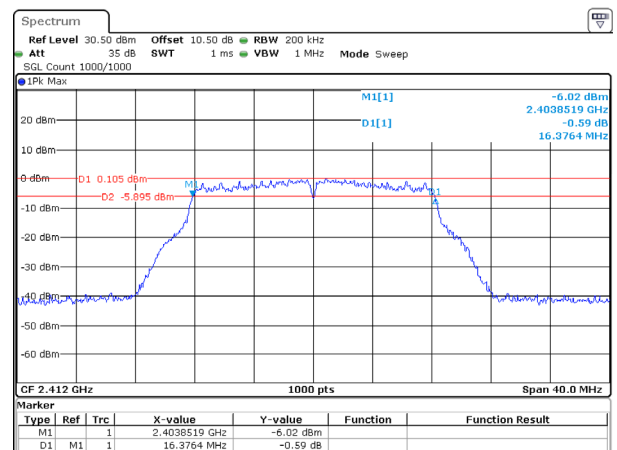
802.11b_2437MHz_Chain 1



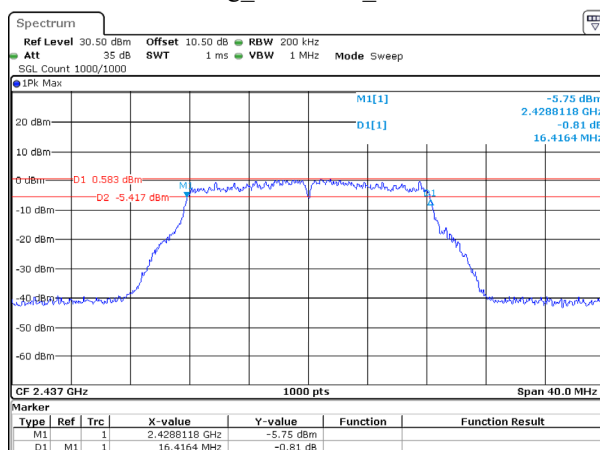
802.11b_2462MHz_Chain 1



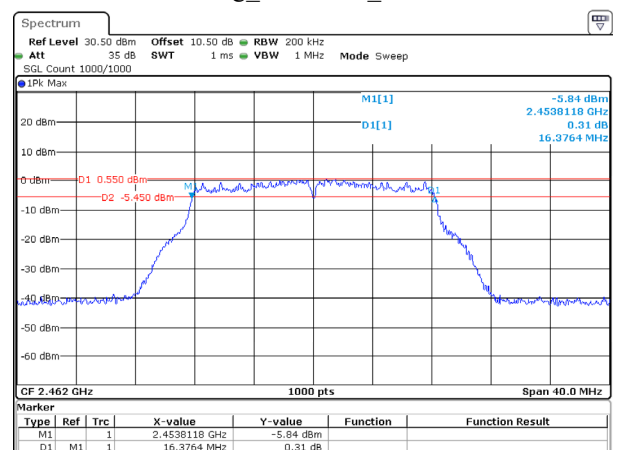
802.11g_2412MHz_Chain 1



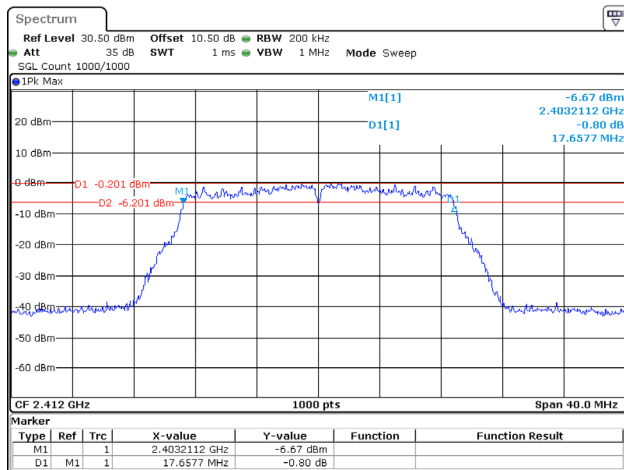
802.11g_2437MHz_Chain 1



802.11g_2462MHz_Chain 1

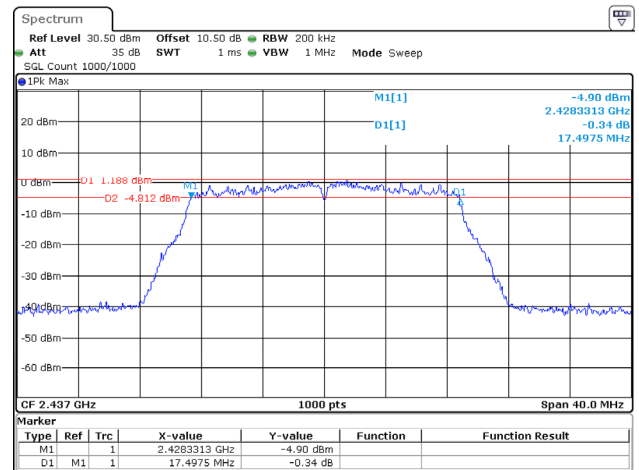


802.11n20_2412MHz_Chain 1



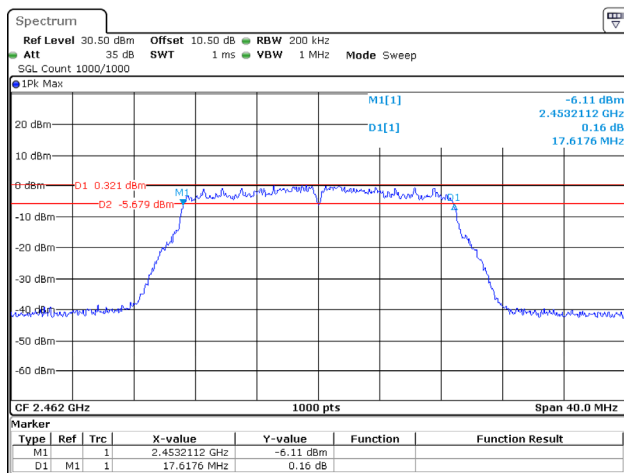
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:13:32

802.11n20_2437MHz_Chain 1



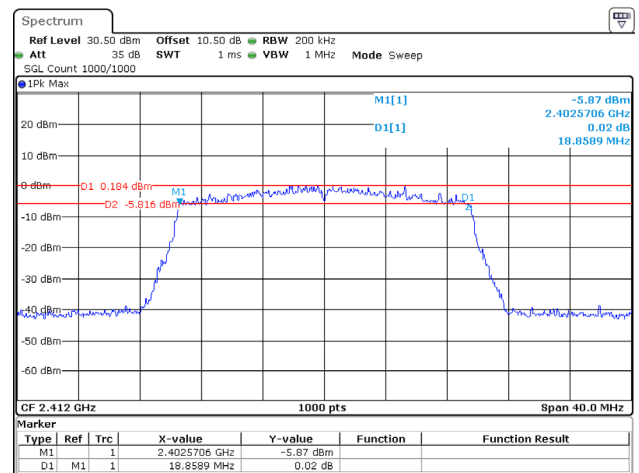
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:14:31

802.11n20_2462MHz_Chain 1



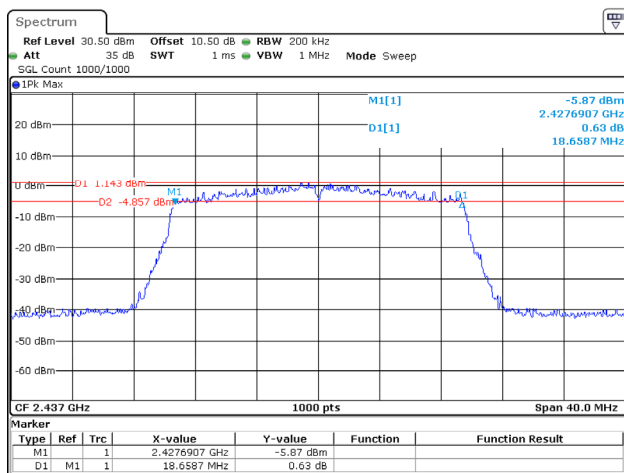
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:15:33

802.11ax20_2412MHz_RU_Full_Chain 1



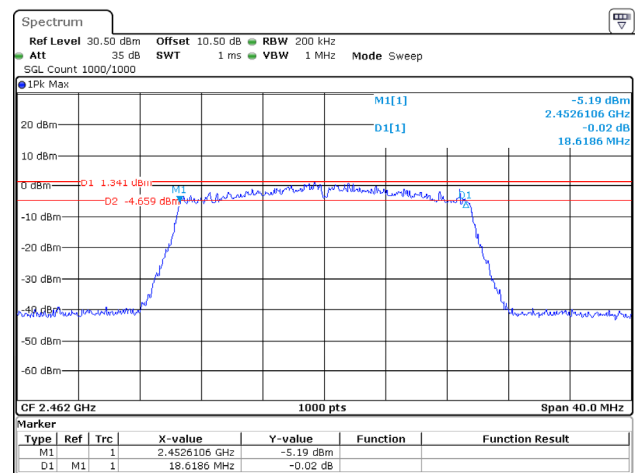
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:16:59

802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:17:53

802.11ax20_2462MHz_RU_Full_Chain 1

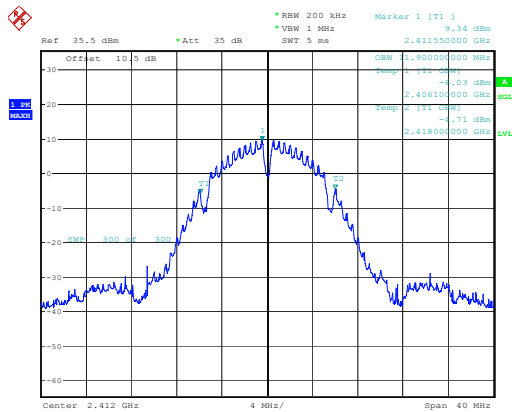


ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:18:49

99% Occupied Bandwidth

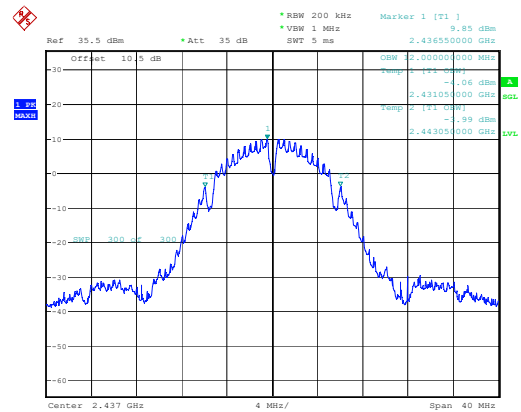
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	11.900
	2437	12
	2462	11.950
802.11g	2412	16.750
	2437	16.700
	2462	16.700
802.11n20	2412	17.800
	2437	17.800
	2462	17.850
802.11ax20_RU_Full	2412	18.950
	2437	18.950
	2462	18.900

802.11b_2412MHz_Chain 1



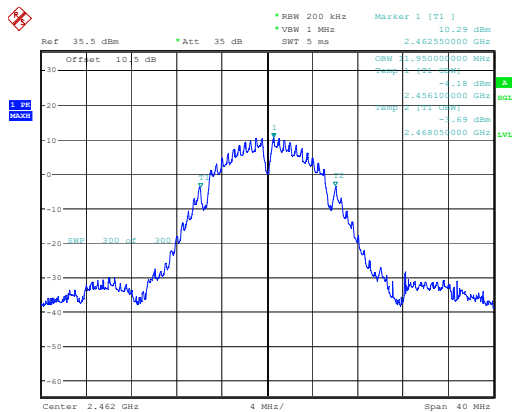
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:35:03

802.11b_2437MHz_Chain 1



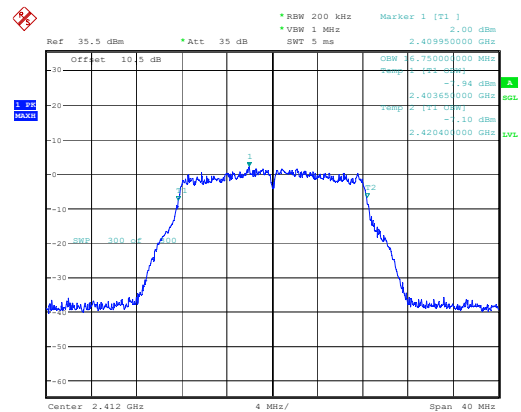
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:39:56

802.11b_2462MHz_Chain 1



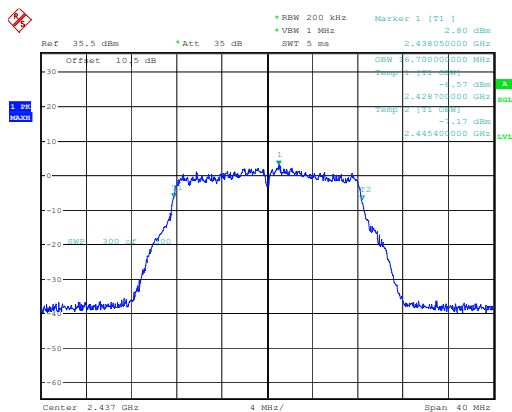
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:46:14

802.11g_2412MHz_Chain 1



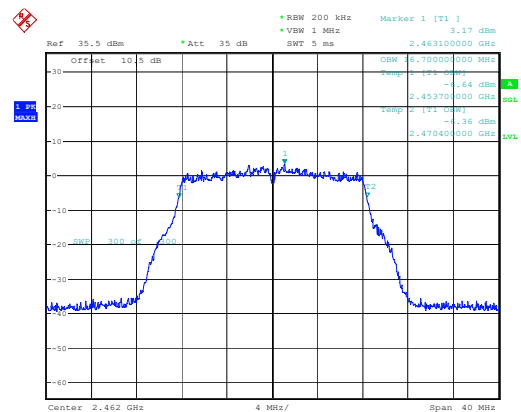
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 16:18:47

802.11g_2437MHz_Chain 1



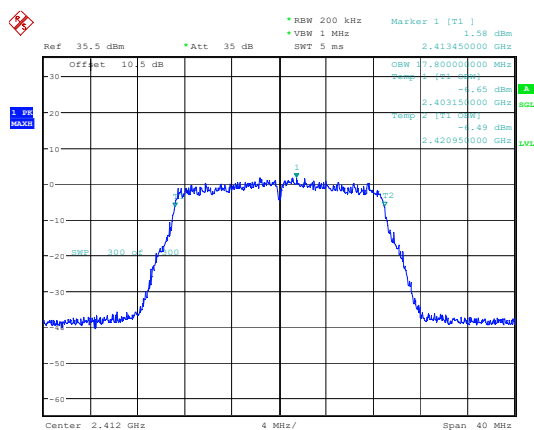
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 16:00:19

802.11g_2462MHz_Chain 1

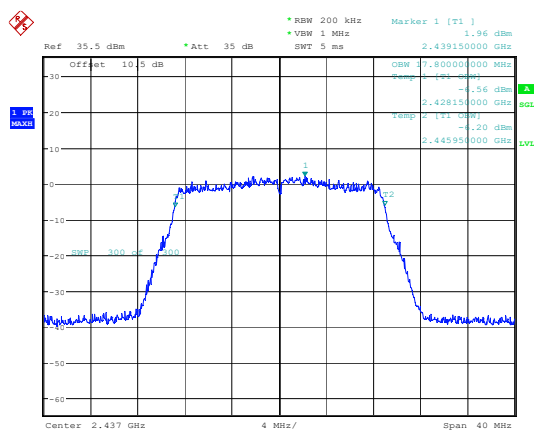


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Date: 19.FEB.2025 13:09:53

802.11n20_2412MHz_Chain 1



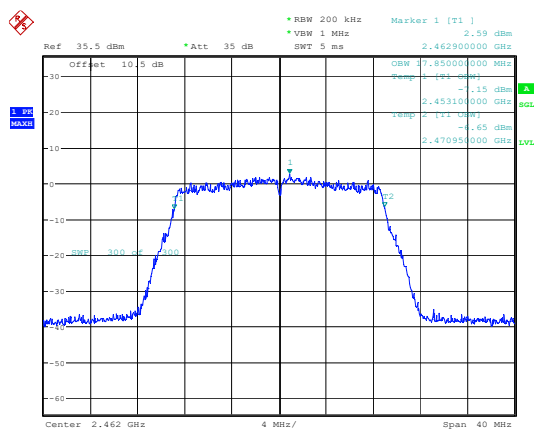
802.11n20_2437MHz_Chain 1



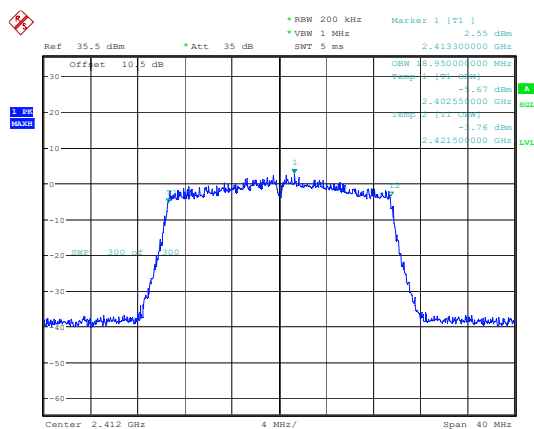
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:04:40

ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:12:22

802.11n20_2462MHz_Chain 1



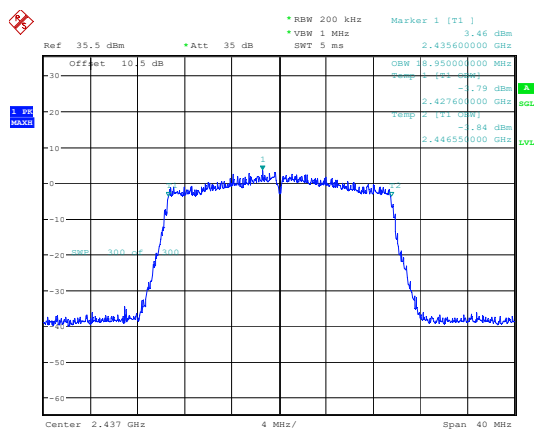
802.11ax20_2412MHz_RU_Full_Chain 1



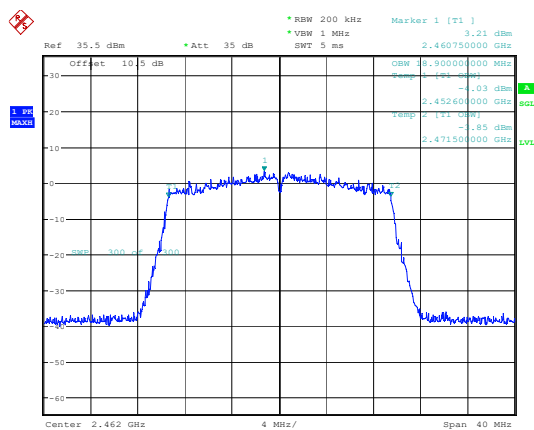
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:19:58

ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:32:35

802.11ax20_2437MHz_RU_Full_Chain 1



802.11ax20_2462MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:40:59

ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 11:46:52

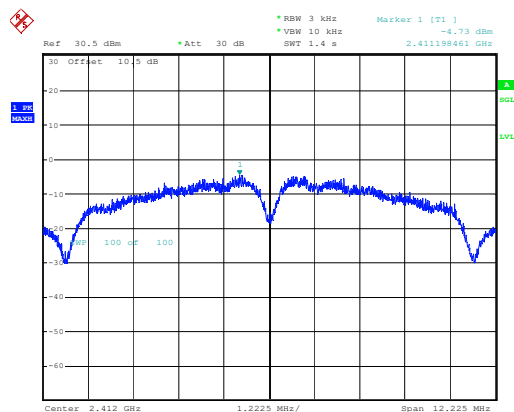
Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
802.11b	2412	20.00	29.85	6.15	26.15	36	Pass
	2437	20.49	29.85	6.15	26.64	36	Pass
	2462	20.87	29.85	6.15	27.02	36	Pass
802.11g	2412	18.99	29.85	6.15	25.14	36	Pass
	2437	19.55	29.85	6.15	25.7	36	Pass
	2462	19.82	29.85	6.15	25.97	36	Pass
802.11n20	2412	18.89	29.85	6.15	25.04	36	Pass
	2437	19.51	29.85	6.15	25.66	36	Pass
	2462	19.49	29.85	6.15	25.64	36	Pass
802.11ax20_RU_Full	2412	18.60	29.85	6.15	24.75	36	Pass
	2437	19.36	29.85	6.15	25.51	36	Pass
	2462	19.67	29.85	6.15	25.82	36	Pass

Power Spectral Density

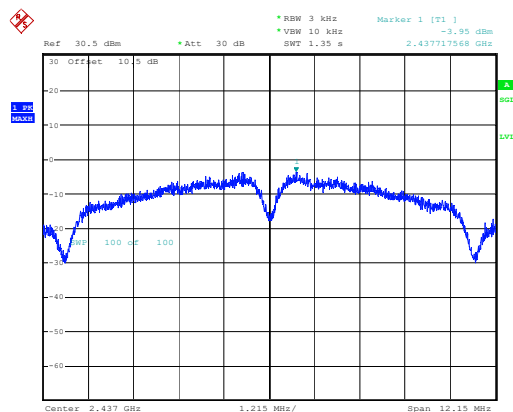
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-4.73	7.85	Pass
	2437	-3.95	7.85	Pass
	2462	-4.23	7.85	Pass
802.11g	2412	-12.75	7.85	Pass
	2437	-12.01	7.85	Pass
	2462	-11.86	7.85	Pass
802.11n20	2412	-12.85	7.85	Pass
	2437	-12.17	7.85	Pass
	2462	-11.66	7.85	Pass
802.11ax20_RU_Full	2412	-13.32	7.85	Pass
	2437	-12.41	7.85	Pass
	2462	-12.30	7.85	Pass

802.11b_2412MHz_Chain 1



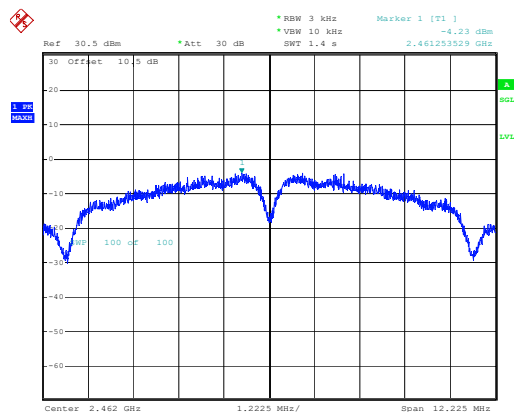
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:36:29

802.11b_2437MHz_Chain 1



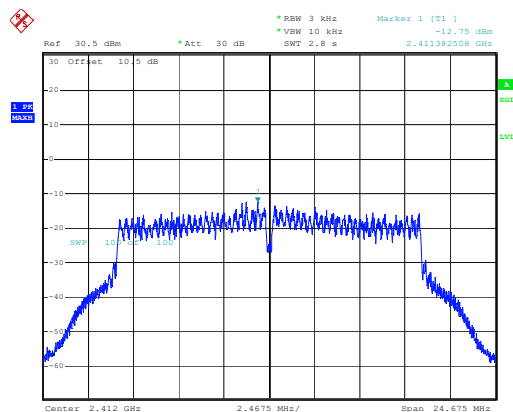
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:42:52

802.11b_2462MHz_Chain 1



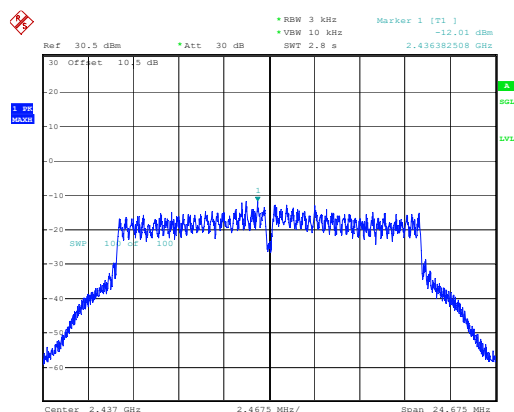
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:49:39

802.11g_2412MHz_Chain 1



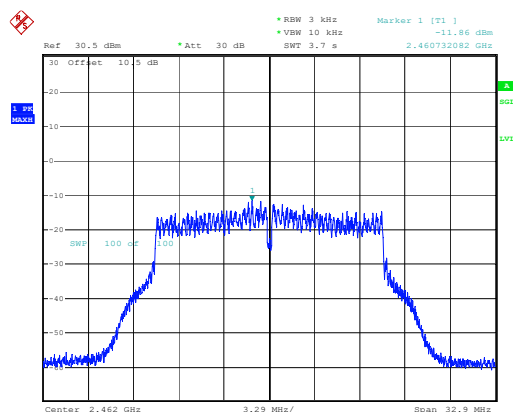
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 16:24:31

802.11g_2437MHz_Chain 1



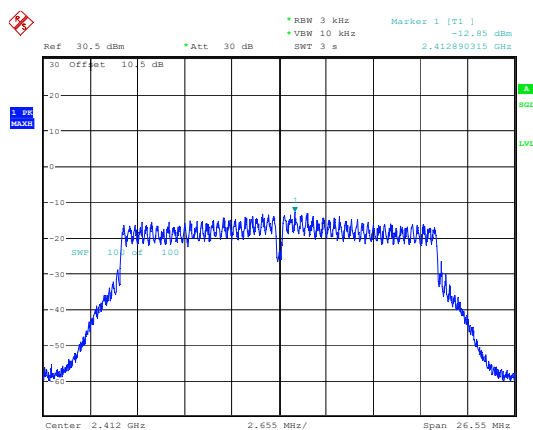
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 16:06:16

802.11g_2462MHz_Chain 1



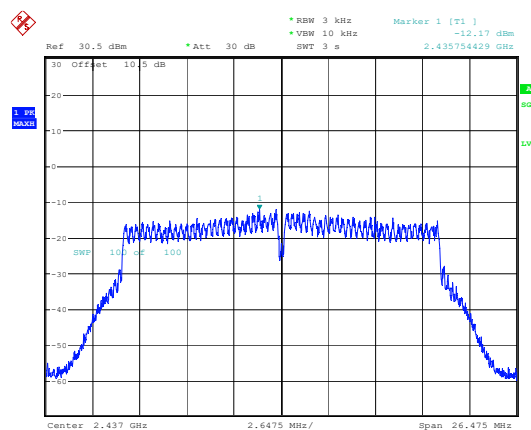
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 13:17:11

802.11n20_2412MHz_Chain 1



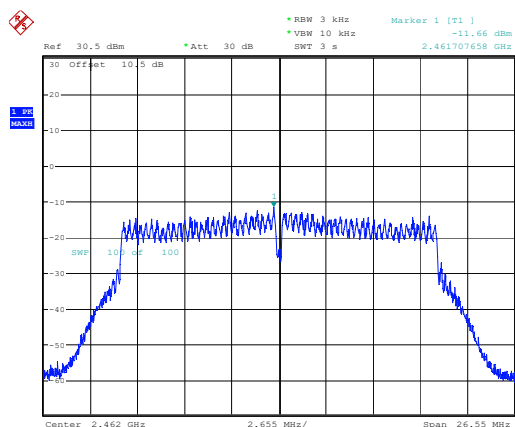
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:10:47

802.11n20_2437MHz_Chain 1



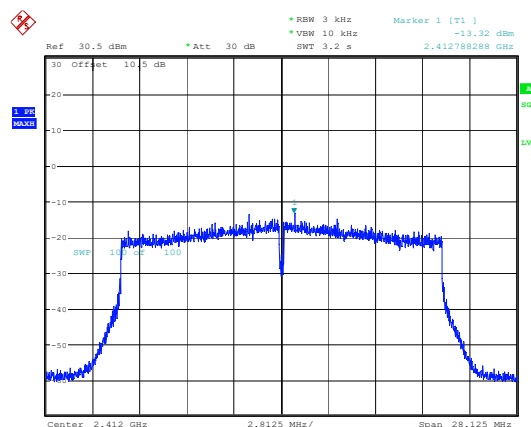
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:17:56

802.11n20_2462MHz_Chain 1



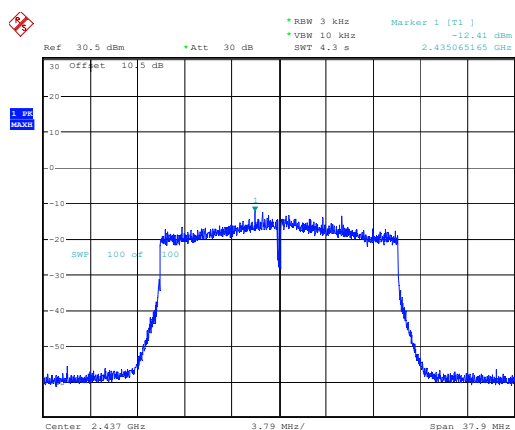
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:26:32

802.11ax20_2412MHz_RU_Full_Chain 1



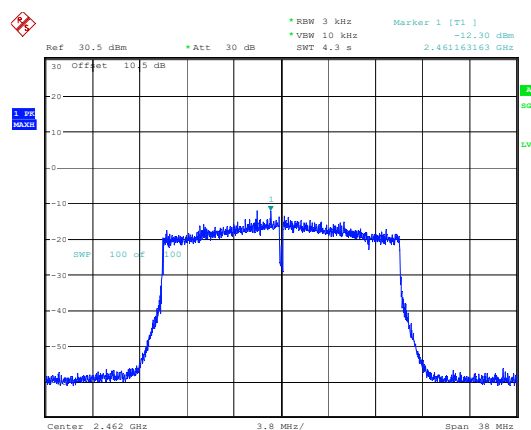
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:39:22

802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 10:52:30

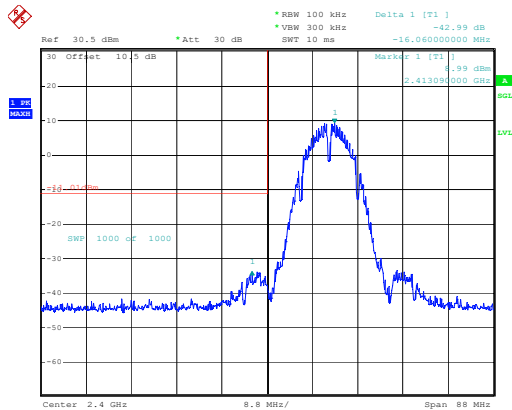
802.11ax20_2462MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 11:55:14

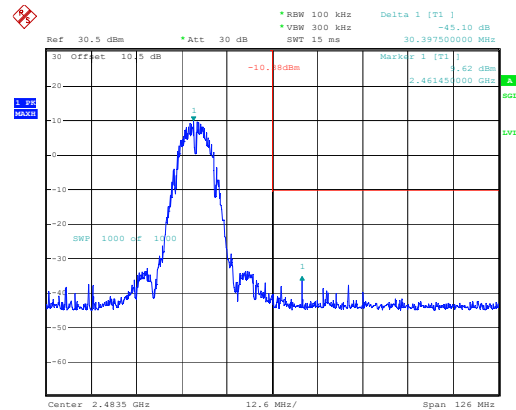
100 kHz Bandwidth of Frequency Band Edge

802.11b_2412MHz_Chain 1



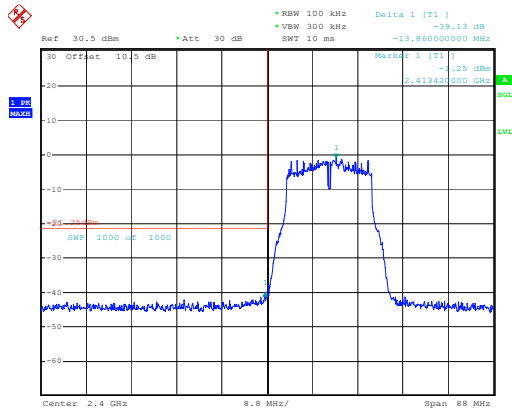
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Date: 18.FEB.2025 15:36:00

802.11b_2462MHz_Chain 1



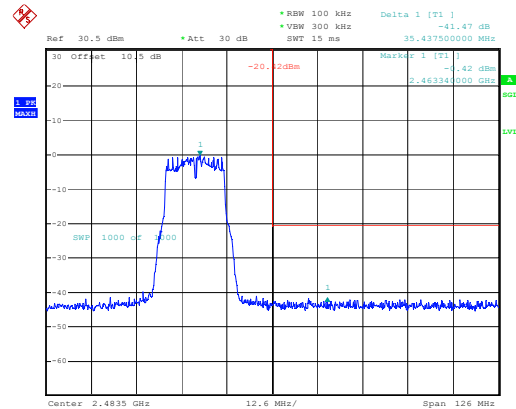
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:47:11

802.11g_2412MHz_Chain 1



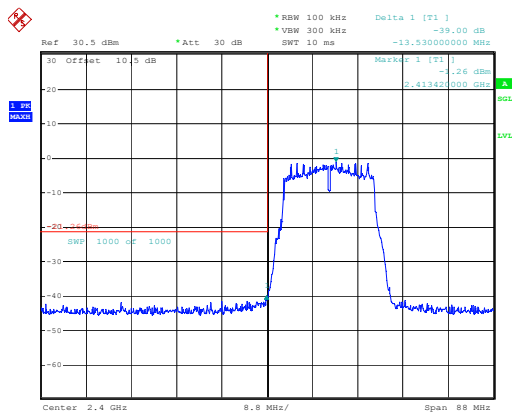
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Date: 18.FEB.2025 16:19:43

802.11g_2462MHz_Chain 1



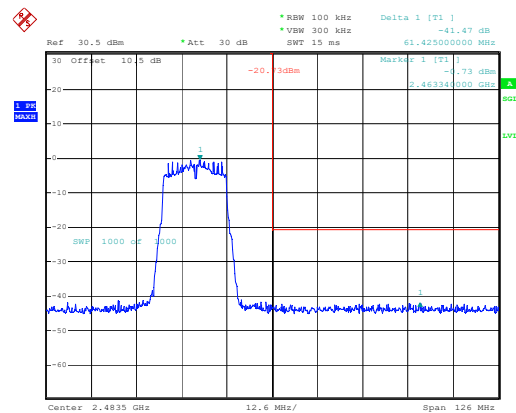
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 13:10:53

802.11n20_2412MHz_Chain 1



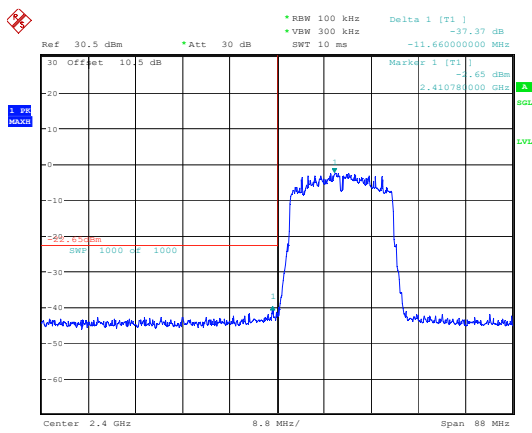
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Date: 18.FEB.2025 17:05:39

802.11n20_2462MHz_Chain 1



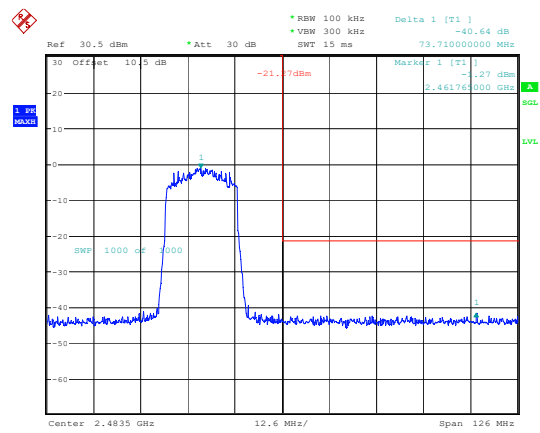
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:21:25

802.11ax20_2412MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 17:33:54

802.11ax20_2462MHz_RU_Full_Chain 1



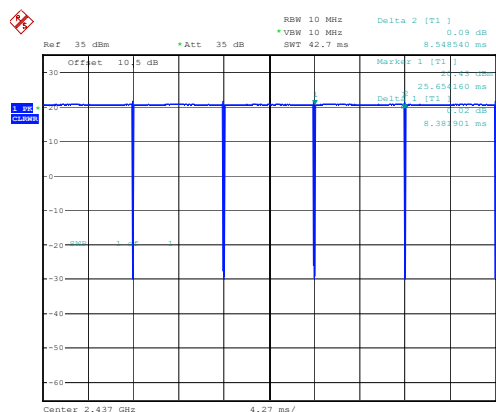
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 11:47:55

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	8.382	8.549	98.05	/	/	0.010
802.11g	2437	1.394	1.495	93.24	0.30	717	1
802.11n20	2437	1.306	1.407	92.82	0.32	766	1
802.11ax20_RU_Full	2437	1.019	1.119	91.06	0.41	981	1

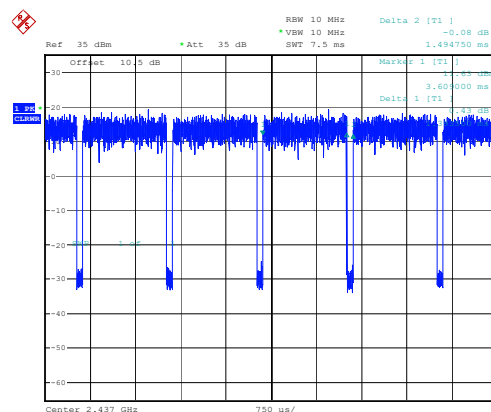
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz_Chain 1



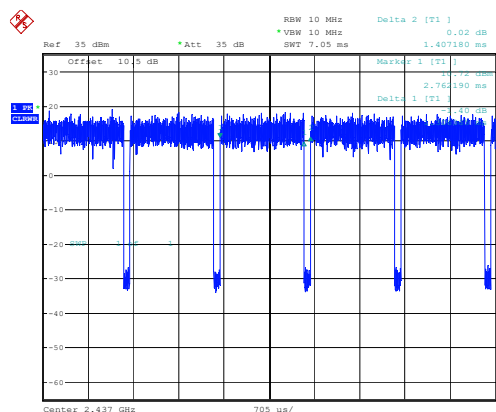
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 10:39:10

802.11g_2437MHz_Chain 1



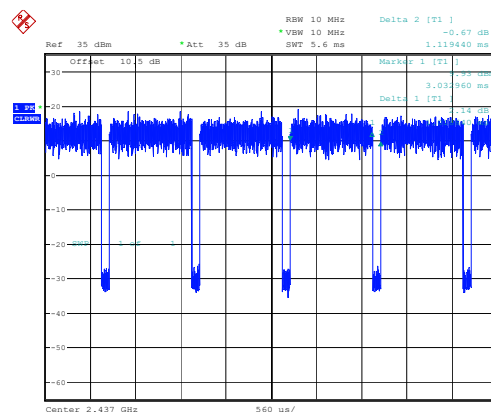
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:29:24

802.11n20_2437MHz_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 18.FEB.2025 15:30:02

802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 19.FEB.2025 10:39:54