

Test Information:

Sample No.:	2XO4-1	Test Date:	2025/02/07
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	23.5	Relative Humidity: (%)	40	ATM Pressure: (kPa)	101.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Anritsu	Power Meter	ML2495A	1106009	2024/8/3	2025/8/2
Anritsu	Pulse Power Sensor	MA2411A	10780	2024/8/3	2025/8/2

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

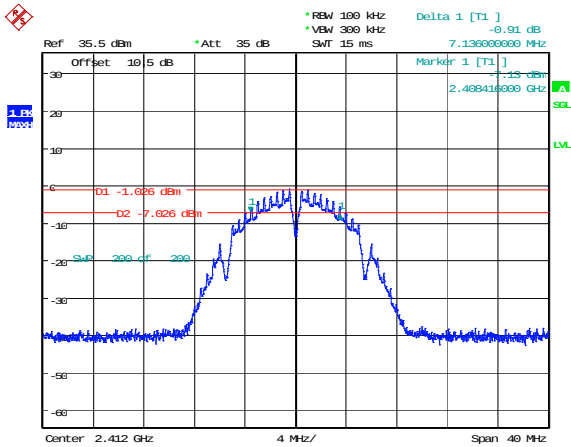
6dB Emission Bandwidth

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	Chain 0	2412	7.136	≥0.5	Pass
		2437	7.616	≥0.5	Pass
		2462	7.104	≥0.5	Pass
802.11g	Chain 0	2412	16.384	≥0.5	Pass
		2437	16.384	≥0.5	Pass
		2462	16.416	≥0.5	Pass
802.11n20	Chain 0	2412	17.632	≥0.5	Pass
		2437	17.600	≥0.5	Pass
		2462	17.632	≥0.5	Pass
802.11ax20_RU_Full	Chain 0	2412	19.168	≥0.5	Pass
		2437	19.168	≥0.5	Pass
		2462	19.168	≥0.5	Pass

Note: Test only was performed at Chain 0.

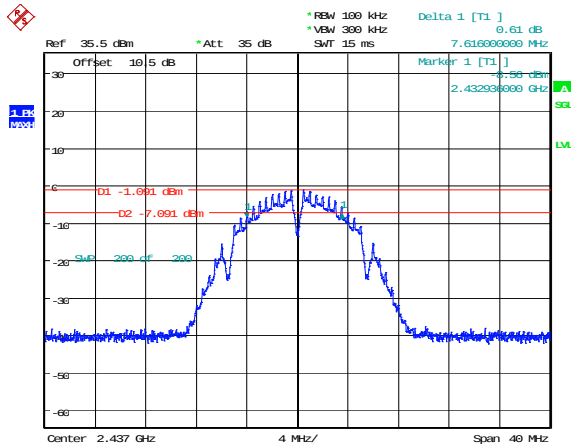
2.4G

802.11b_2412MHz_Chain 0



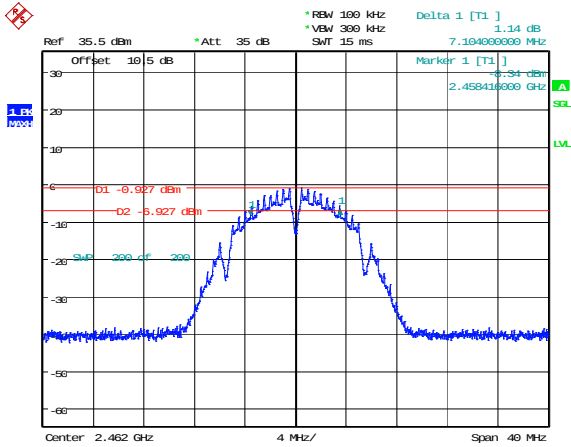
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling LI
Date: 7.FEB.2025 11:08:14

802.11b_2437MHz_Chain 0



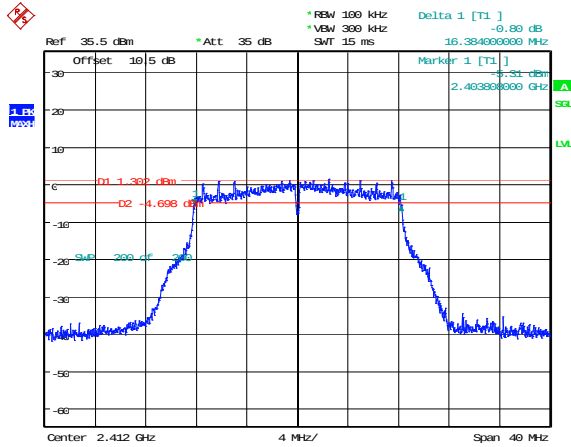
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling LI
Date: 7.FEB.2025 11:13:00

802.11b_2462MHz_Chain 0



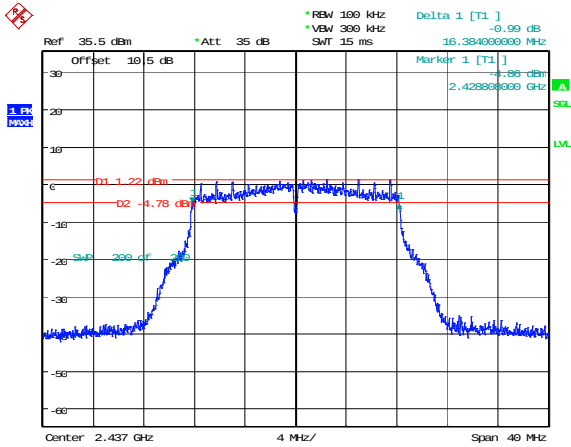
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Date: 7.FEB.2025 11:15:52

802.11g_2412MHz_Chain 0



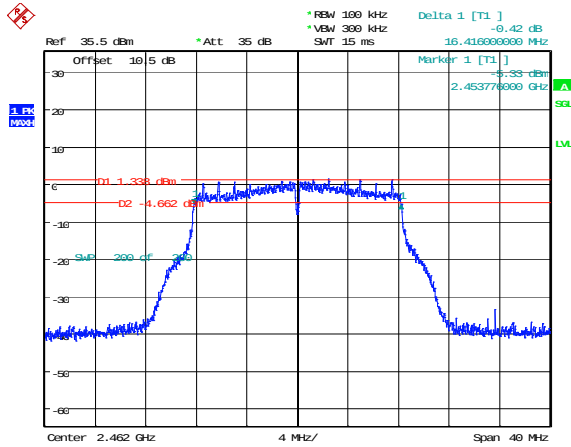
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802.11g_2437MHz_Chain 0



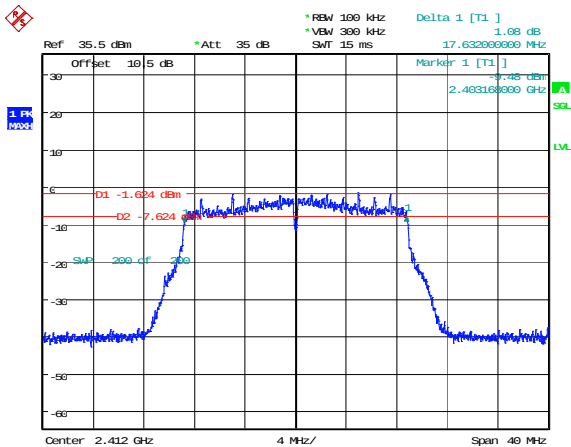
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802.11g_2462MHz_Chain 0



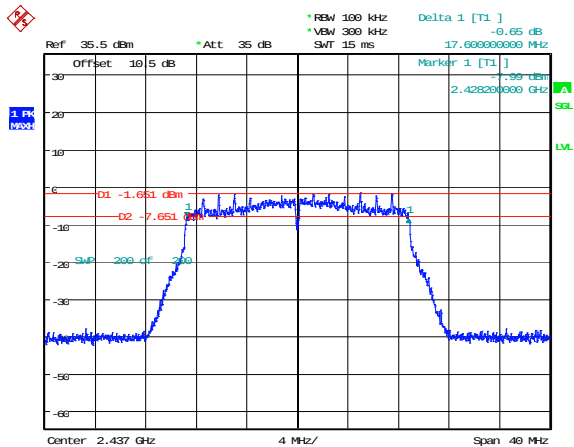
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Date: 7.FEB.2025 11:55:18

802.11n20_2412MHz_Chain 0



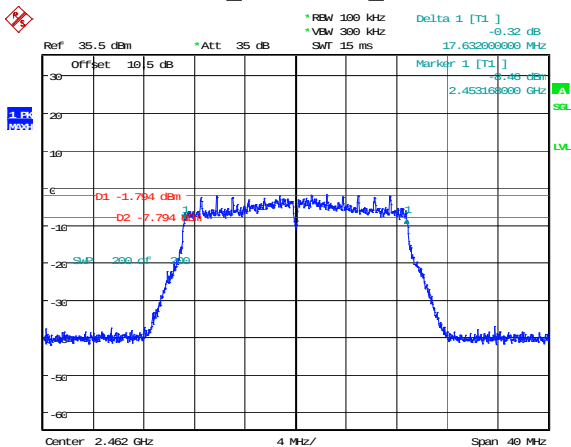
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802.11n20_2437MHz_Chain 0



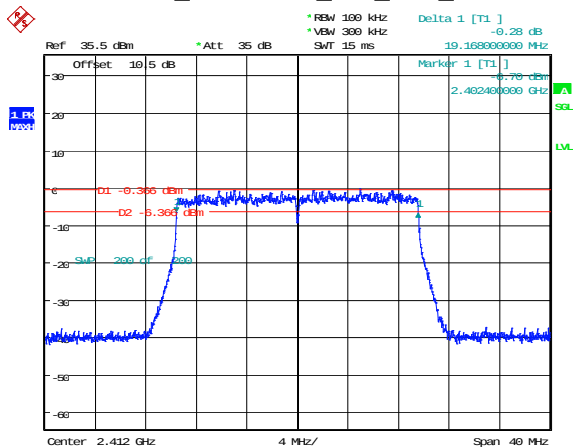
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Date: 7.FEB.2025 11:34:23

802.11n20_2462MHz_Chain 0



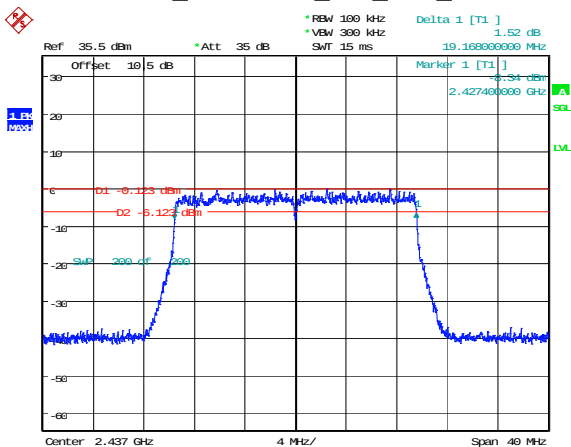
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802.11ax20_2412MHz_RU_Full_Chain 0



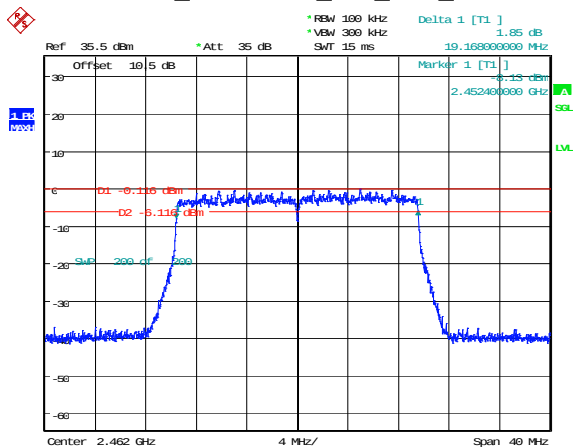
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Date: 7.FEB.2025 10:52:16

802.11ax20_2437MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 10:56:00

802.11ax20_2462MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 10:58:20

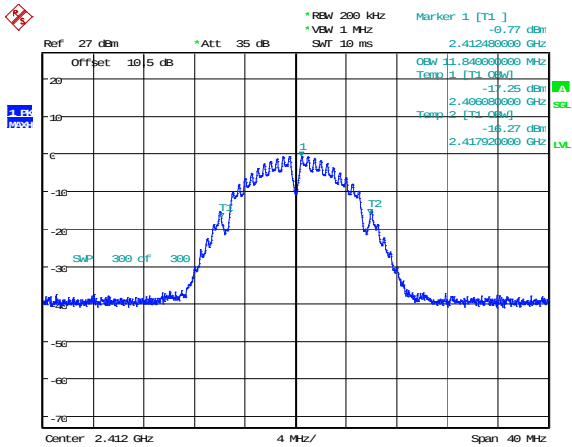
99% Occupied Bandwidth

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11b	Chain 0	2412	11.840
		2437	11.840
		2462	11.840
802.11g	Chain 0	2412	16.768
		2437	16.736
		2462	16.768
802.11n20	Chain 0	2412	17.856
		2437	17.888
		2462	17.888
802.11ax20_RU_Full	Chain 0	2412	19.040
		2437	19.072
		2462	19.072

Note: Test only was performed at Chain 0.

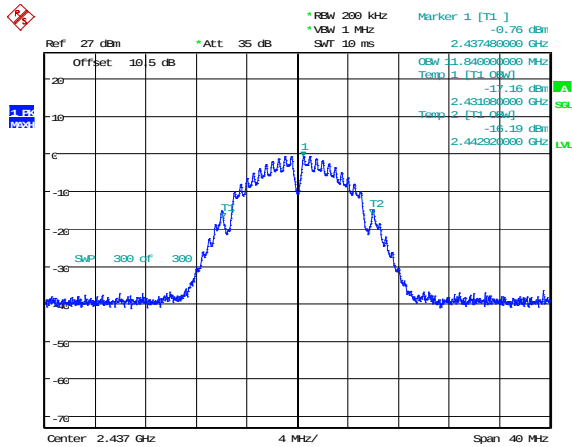
2.4G

802.11b_2412MHz_Chain 0



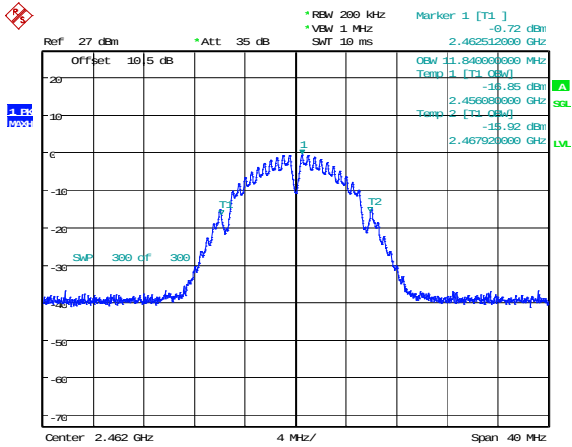
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 11:08:44

802.11b_2437MHz_Chain 0



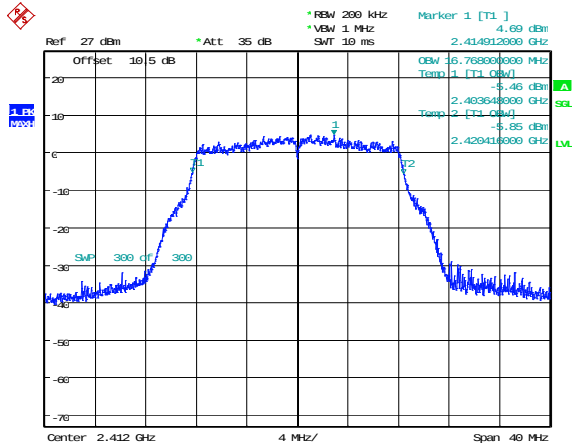
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802.11b_2462MHz_Chain 0



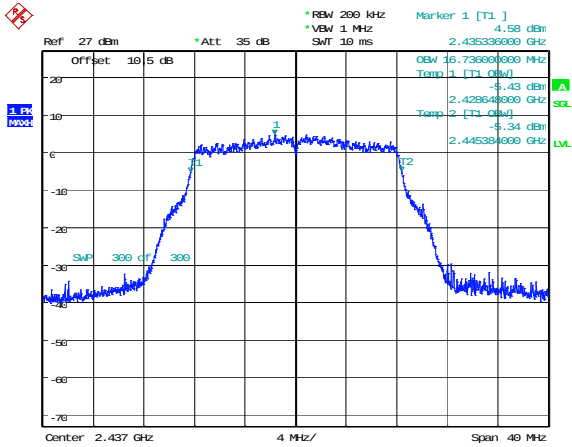
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802.11g_2412MHz_Chain 0



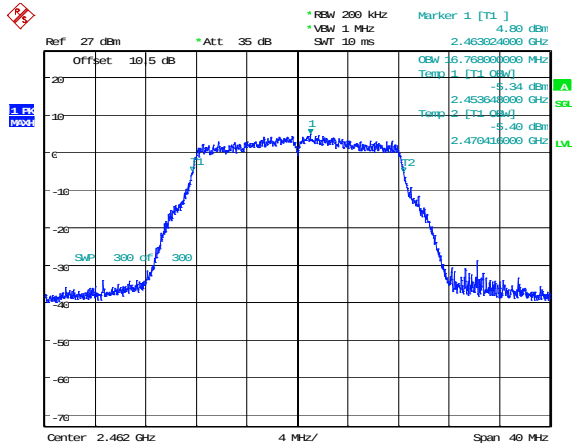
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802.11g_2437MHz_Chain 0



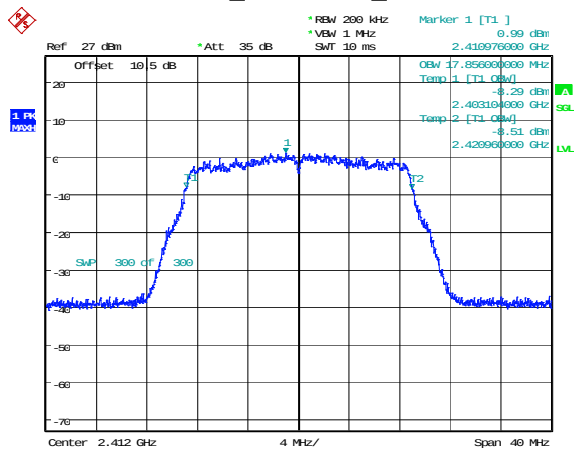
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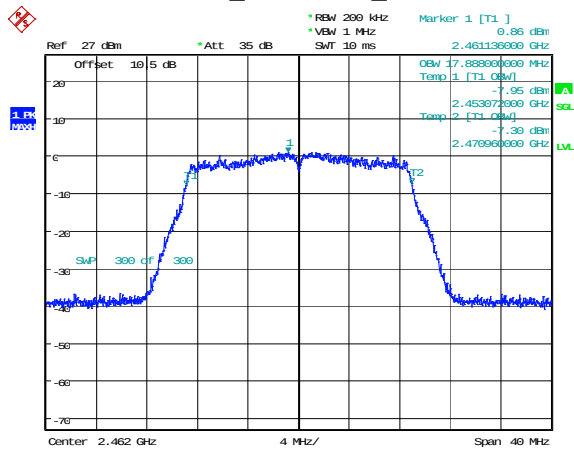
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802.11n20_2412MHz_Chain 0



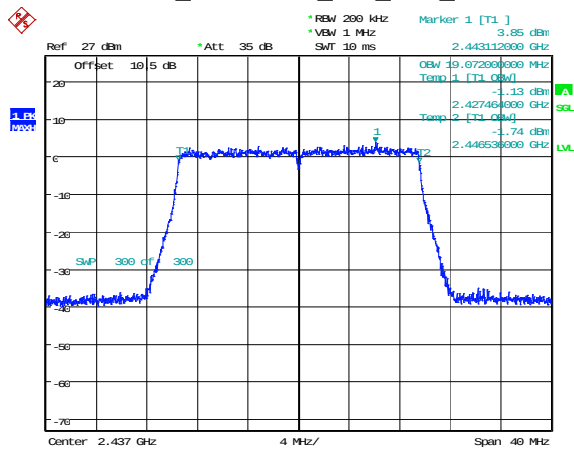
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802.11n20_2462MHz_Chain 0



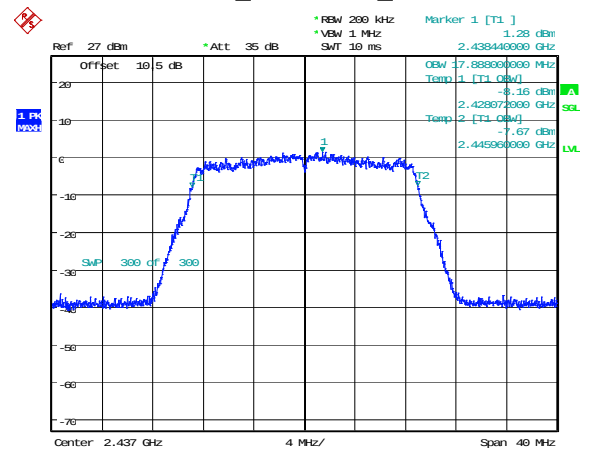
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Date: 7.FEB.2025 11:37:03

802.11ax20_2437MHz_RU_Full_Chain 0



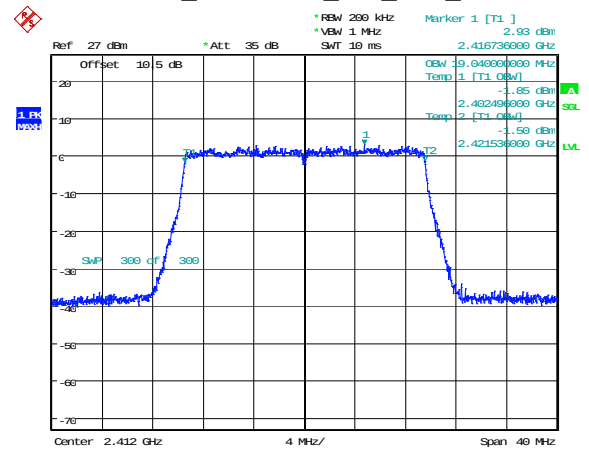
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Date: 7.FEB.2025 10:56:28

802.11n20_2437MHz_Chain 0



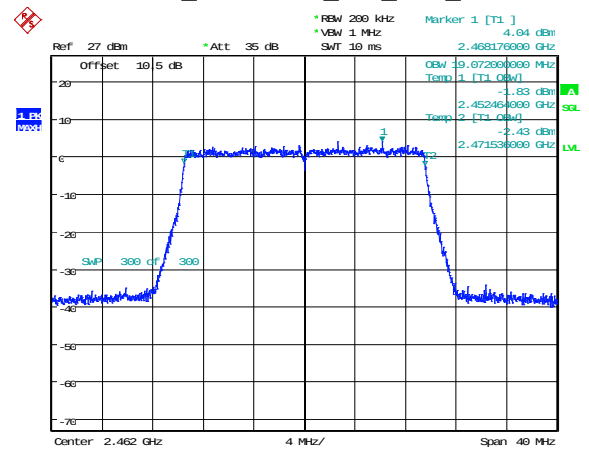
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 11:34:53

802.11ax20_2412MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 10:52:34

802.11ax20_2462MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 10:58:57

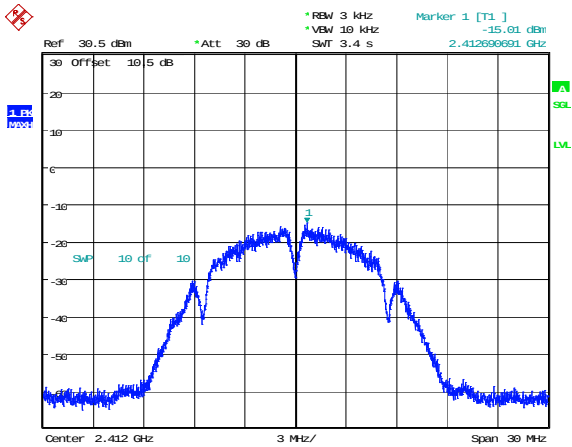
Power Spectral Density

Mode	Antenna	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	Chain 0	2412	-15.01	8	Pass
		2437	-15.41	8	Pass
		2462	-15.25	8	Pass
	Chain 1	2412	-20.72	8	Pass
		2437	-21.10	8	Pass
		2462	-21.12	8	Pass
802.11g	Chain 0	2412	-10.88	8	Pass
		2437	-10.26	8	Pass
		2462	-10.52	8	Pass
	Chain 1	2412	-12.32	8	Pass
		2437	-12.74	8	Pass
		2462	-12.39	8	Pass
802.11n20	Chain 0	2412	-13.60	8	Pass
		2437	-13.09	8	Pass
		2462	-13.60	8	Pass
	Chain 1	2412	-16.70	8	Pass
		2437	-15.96	8	Pass
		2462	-14.27	8	Pass
	Chain 0+Chain 1	2412	-11.87	8	Pass
		2437	-11.28	8	Pass
		2462	-10.91	8	Pass
802.11ax20_RU_Full	Chain 0	2412	-14.21	8	Pass
		2437	-14.28	8	Pass
		2462	-14.14	8	Pass
	Chain 1	2412	-15.75	8	Pass
		2437	-15.62	8	Pass
		2462	-14.67	8	Pass
	Chain 0+Chain 1	2412	-11.90	8	Pass
		2437	-11.89	8	Pass
		2462	-11.39	8	Pass

Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:
 Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB, max antenna gain is 2.2 dBi, so Directional Gain = $2.2 + 10 * \log(2/1) = 5.2$ dBi.

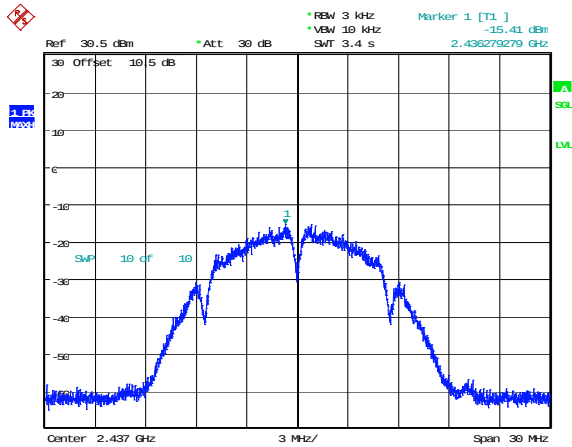
2.4G

802.11b_2412MHz_Chain 0



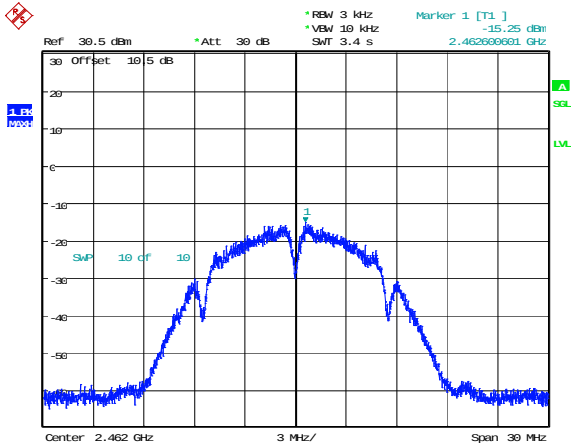
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Date: 7.FEB.2025 11:10:19

802.11b_2437MHz_Chain 0



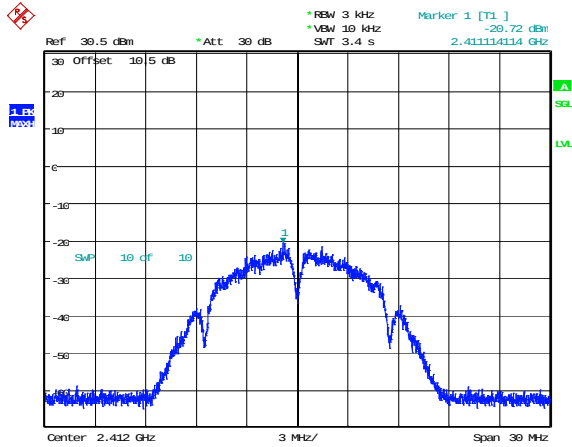
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 11:14:28

802.11b_2462MHz_Chain 0



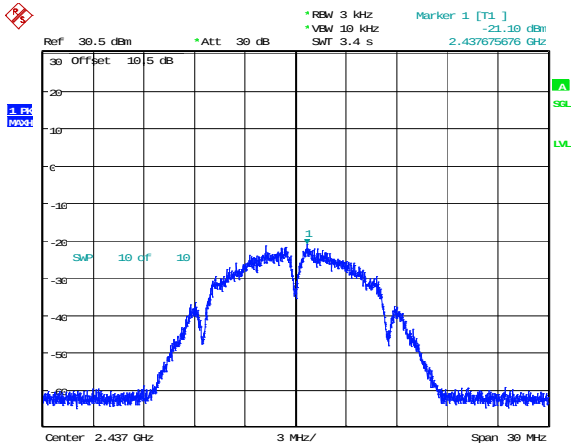
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Date: 7.FEB.2025 11:17:51

802.11b_2412MHz_Chain 1



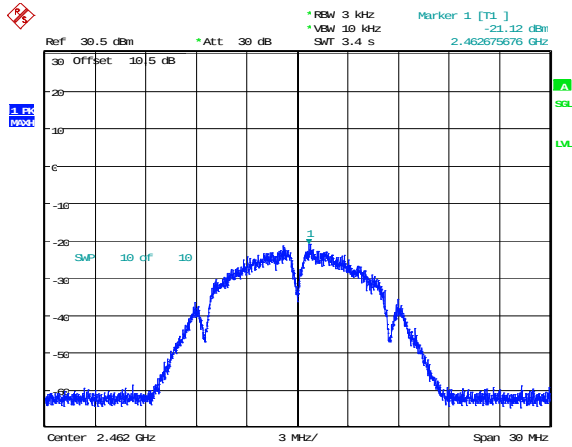
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Date: 7.FEB.2025 13:18:12

802.11b_2437MHz_Chain 1



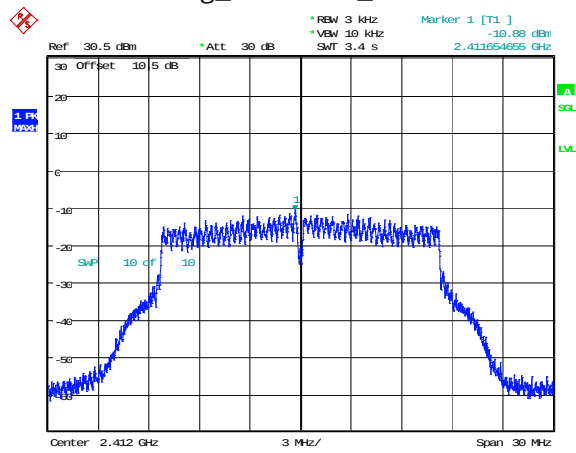
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802.11b_2462MHz_Chain 1



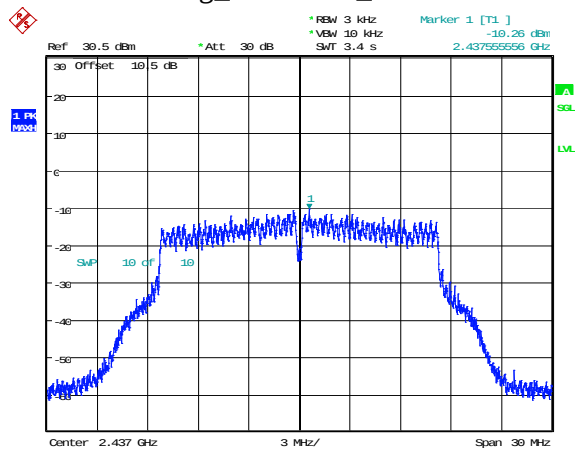
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Date: 7.FEB.2025 13:20:44

802.11g_2412MHz_Chain 0



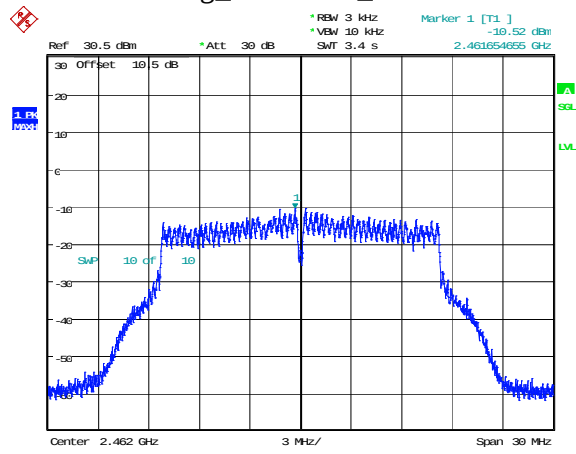
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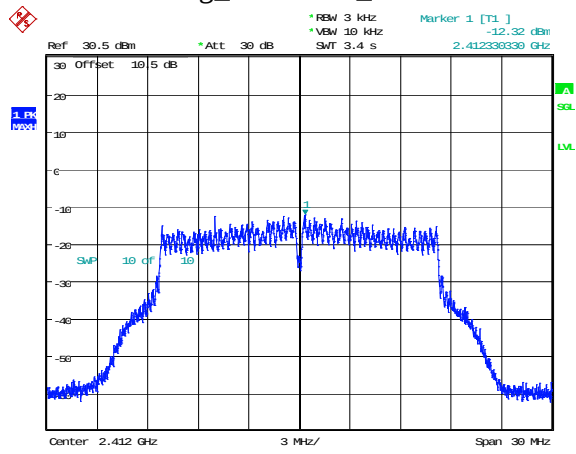
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Date: 7.FEB.2025 11:54:44

802.11g_2462MHz_Chain 0



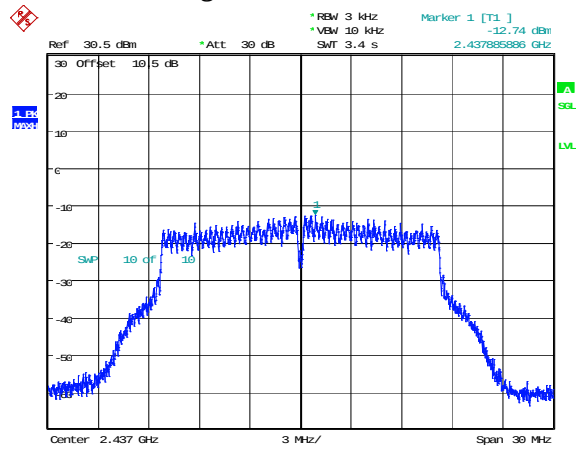
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802.11g_2412MHz_Chain 1



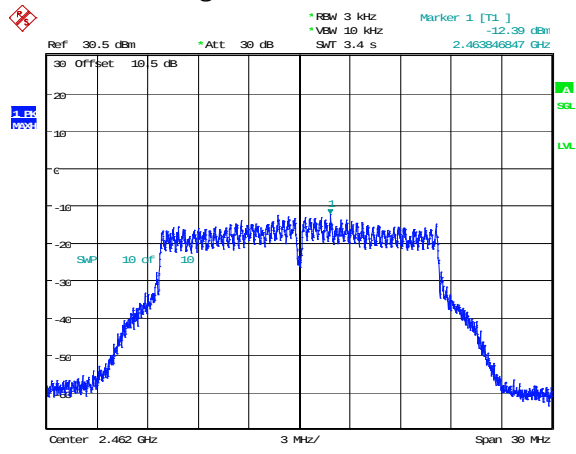
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802.11g_2437MHz_Chain 1



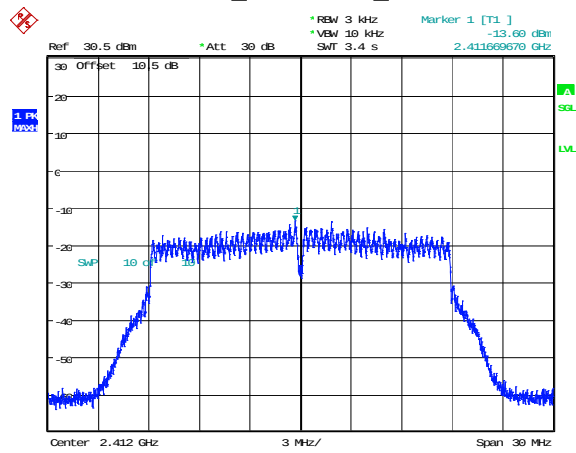
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Date: 7.FEB.2025 13:28:59

802.11g_2462MHz_Chain 1



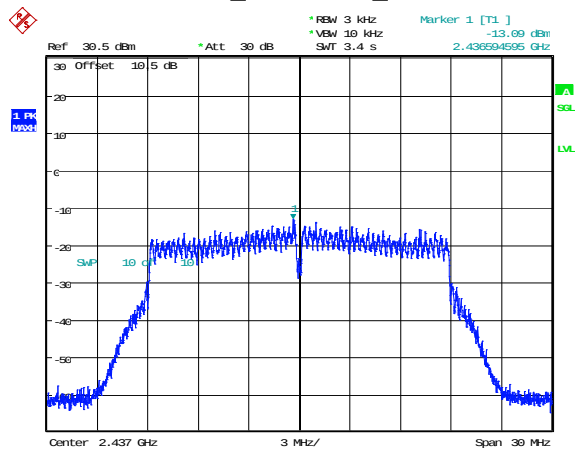
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802.11n20_2412MHz_Chain 0



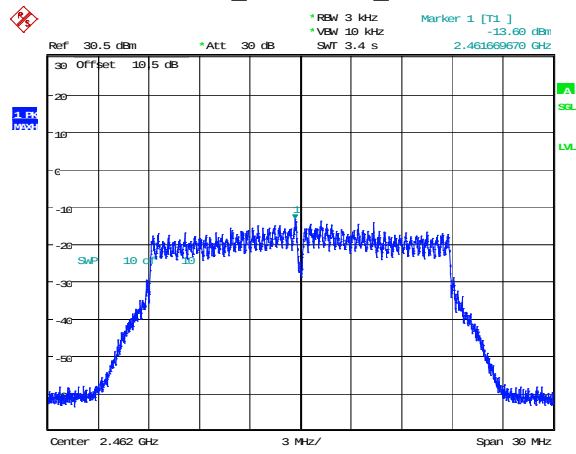
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Date: 7.FEB.2025 11:33:30

802.11n20_2437MHz_Chain 0



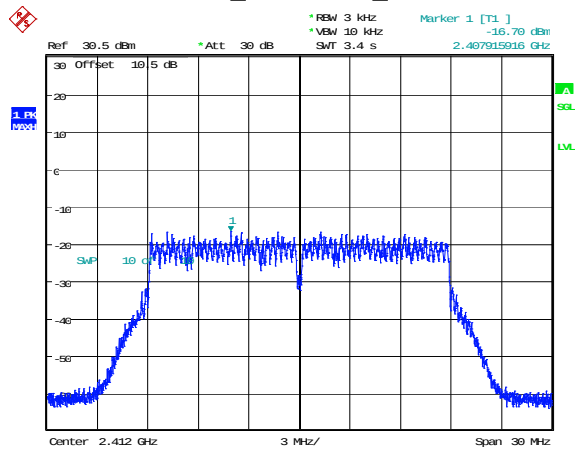
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Date: 7.FEB.2025 11:35:53

802.11n20_2462MHz_Chain 0



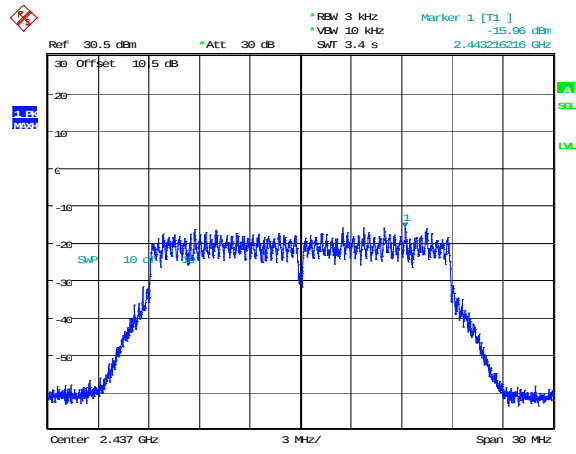
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Date: 7.FEB.2025 11:38:33

802.11n20_2412MHz_Chain 1



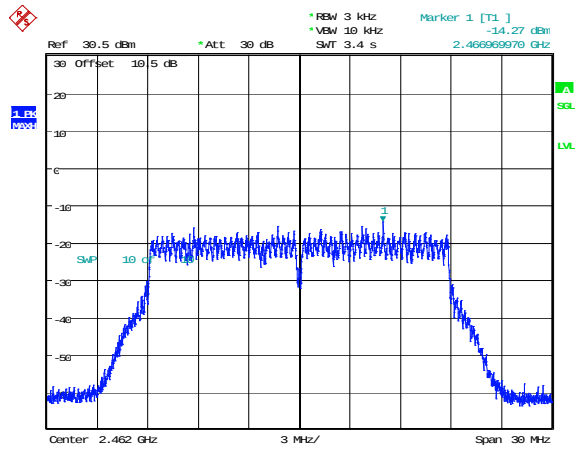
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802.11n20_2437MHz_Chain 1



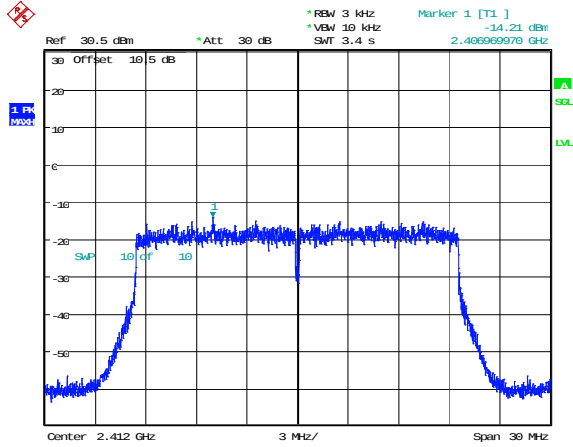
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802.11n20_2462MHz_Chain 1



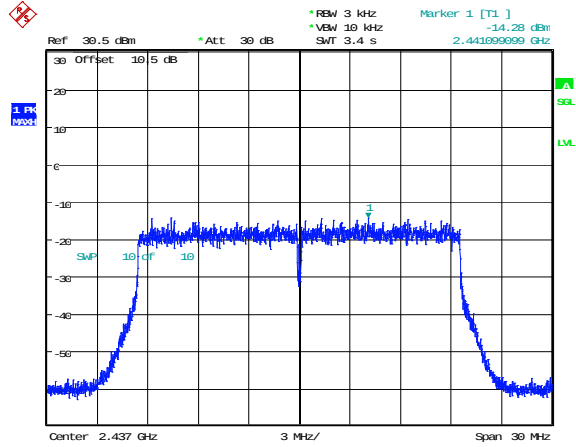
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802.11ax20_2412MHz_RU_Full_Chain 0



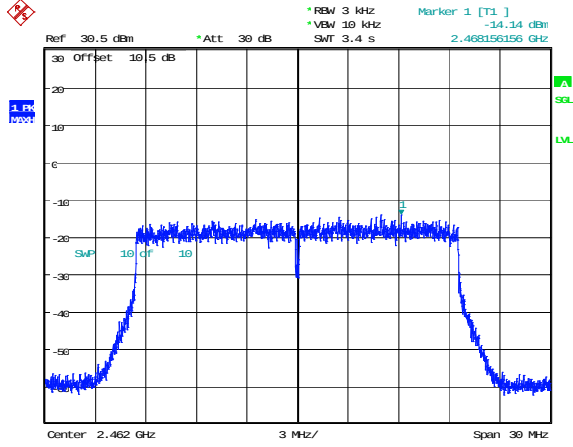
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Date: 7.FEB.2025 10:54:01

802.11ax20_2437MHz_RU_Full_Chain 0



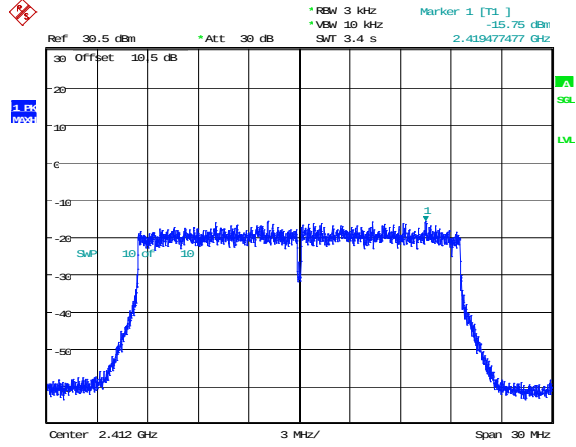
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 10:57:28

802.11ax20_2462MHz_RU_Full_Chain 0



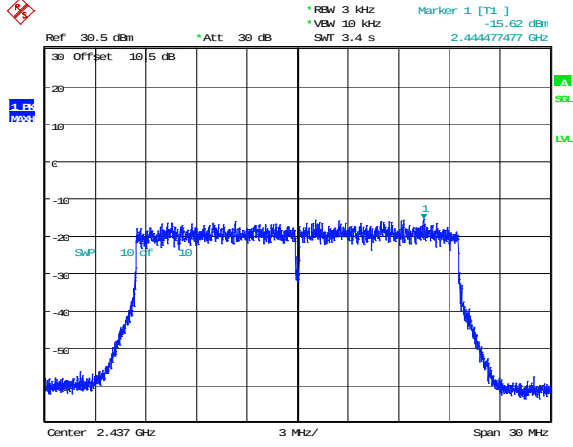
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802.11ax20_2412MHz_RU_Full_Chain 1



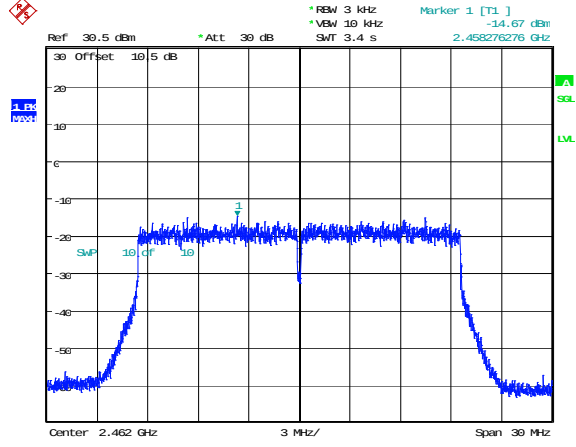
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Date: 7.FEB.2025 13:49:06

802.11ax20_2437MHz_RU_Full_Chain 1



Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 13:52:23

802.11ax20_2462MHz_RU_Full_Chain 1



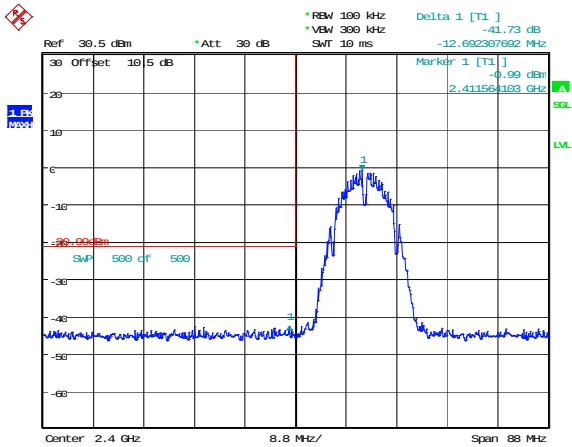
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 13:50:57

100 kHz Bandwidth of Frequency Band Edge

Mode	Antenna	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	Chain 0	2412	41.73	20	Pass
		2462	41.51	20	Pass
	Chain 1	2412	35.67	20	Pass
		2462	35.82	20	Pass
802.11g	Chain 0	2412	38.81	20	Pass
		2462	42.77	20	Pass
	Chain 1	2412	39.06	20	Pass
		2462	41.40	20	Pass
802.11n20	Chain 0	2412	39.61	20	Pass
		2462	40.88	20	Pass
	Chain 1	2412	39.40	20	Pass
		2462	40.25	20	Pass
802.11ax20_RU_Full	Chain 0	2412	40.81	20	Pass
		2462	42.38	20	Pass
	Chain 1	2412	40.31	20	Pass
		2462	41.62	20	Pass

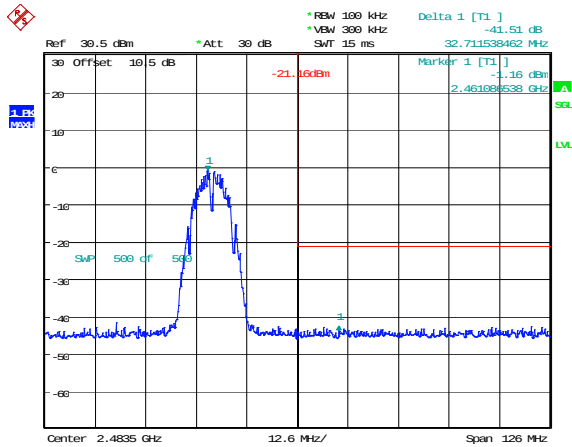
2.4G

802.11b_2412MHz_Chain 0



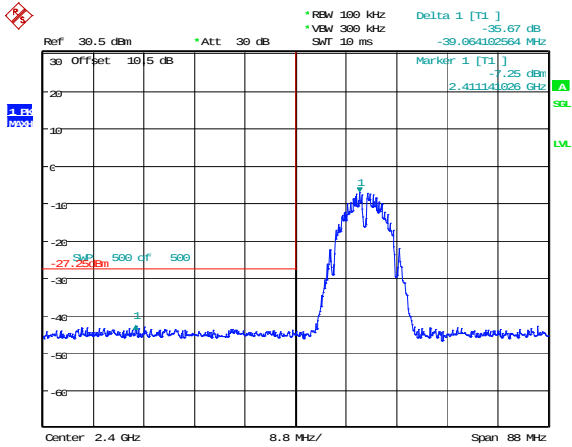
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling LI
Date: 7.FEB.2025 11:09:36

802.11b_2462MHz_Chain 0



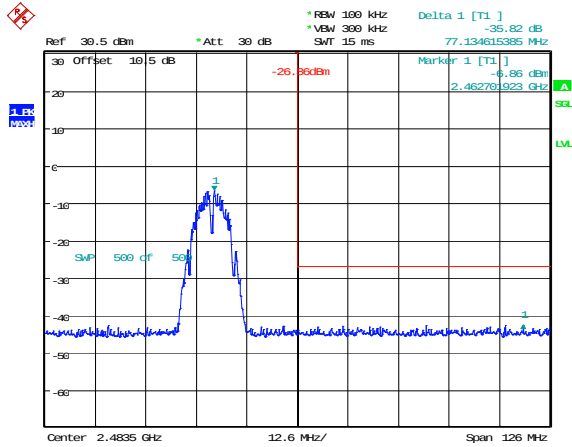
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling LI
Date: 7.FEB.2025 11:17:07

802.11b_2412MHz_Chain 1



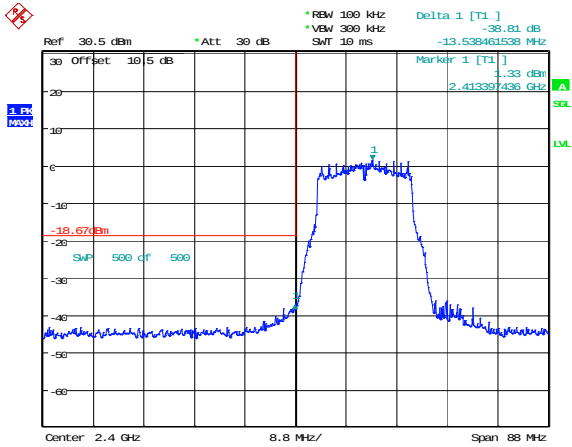
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling LI
Date: 7.FEB.2025 13:23:19

802.11b_2462MHz_Chain 1



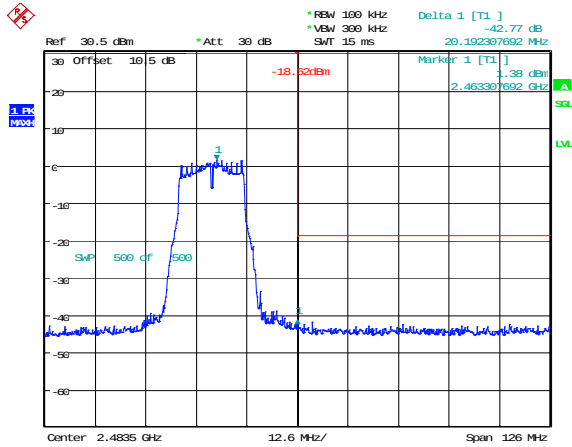
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Date: 7.FEB.2025 13:22:30

802.11g_2412MHz_Chain 0



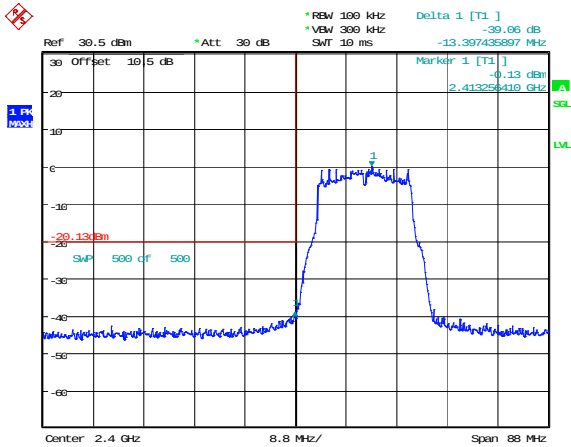
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Date: 7.FEB.2025 11:51:40

802.11g_2462MHz_Chain 0



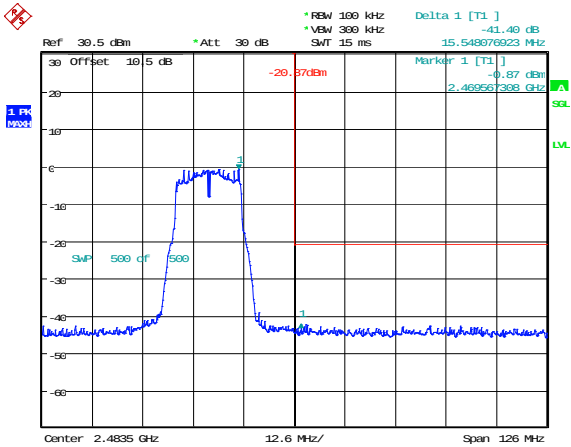
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Date: 7.FEB.2025 11:56:38

802.11g_2412MHz_Chain 1



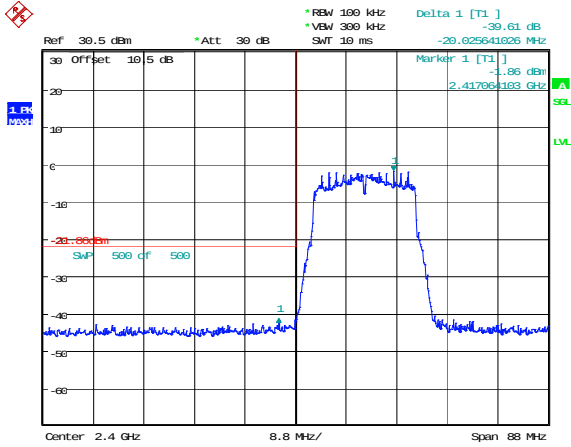
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing Li
Date: 7.FEB.2025 13:24:46

802.11g_2462MHz_Chain 1



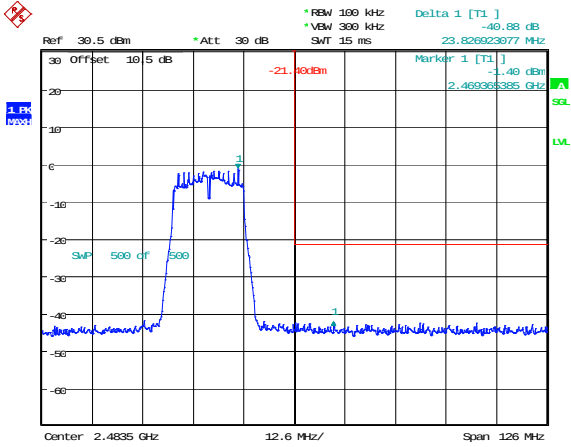
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing Li
Date: 7.FEB.2025 13:26:27

802.11n20_2412MHz_Chain 0



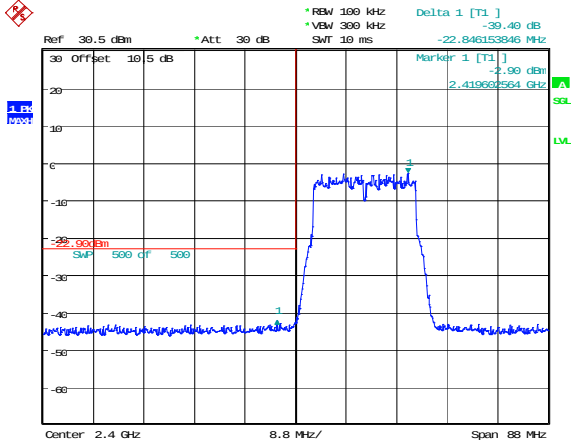
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Date: 7.FEB.2025 11:32:47

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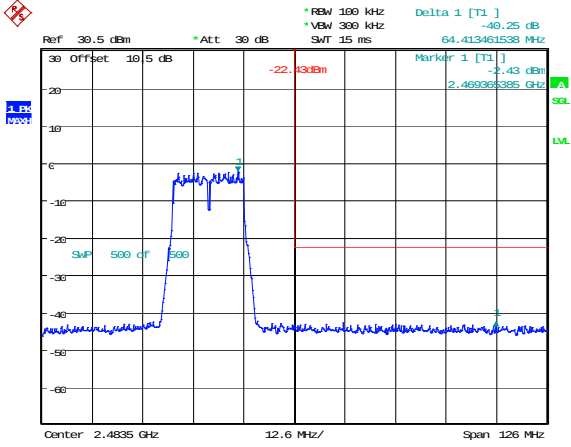
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing Li
Date: 7.FEB.2025 11:37:59

802.11n20_2412MHz_Chain 1



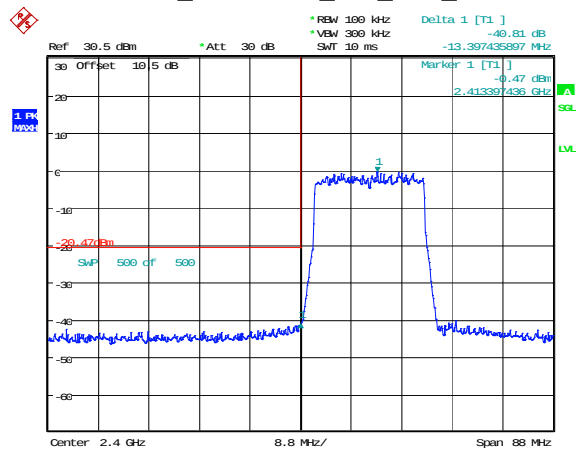
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing Li
Date: 7.FEB.2025 13:43:27

802.11n20_2462MHz_Chain 1



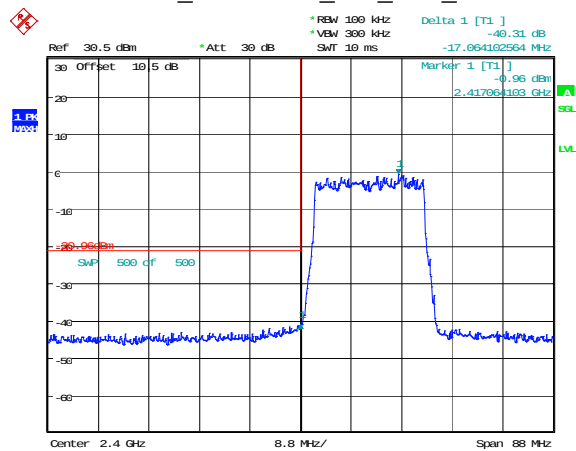
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Date: 7.FEB.2025 13:44:59

802.11ax20_2412MHz_RU_Full_Chain 0



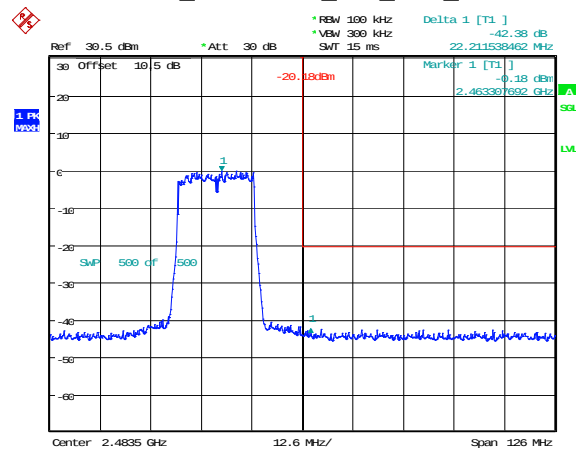
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 10:53:18

802.11ax20_2412MHz_RU_Full_Chain 1



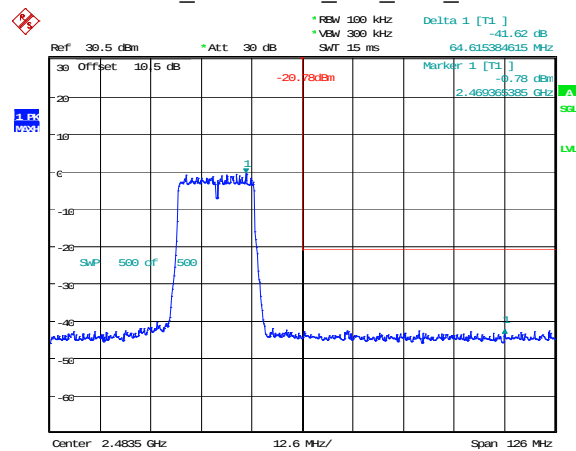
Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 13:48:19

802.11ax20_2462MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 10:59:47

802.11ax20_2462MHz_RU_Full_Chain 1



Comment: ProjectNo.:2503P42421E-RF Tester:LingLing LI
Date: 7.FEB.2025 13:50:02

Maximum Conducted Output Power

Test Modes	Test Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
802.11b	2412	10.41	4.34	/	30
	2437	10.23	4.27	/	30
	2462	10.12	4.34	/	30
802.11g	2412	21.58	20.1	/	30
	2437	21.68	20.14	/	30
	2462	21.55	20.08	/	30
802.11n ht20	2412	18.73	17.34	21.10	30
	2437	18.64	17.68	21.20	30
	2462	18.55	17.84	21.22	30
802.11ax hew20	2412	20.45	19.77	23.13	30
	2437	20.77	20.33	23.57	30
	2462	20.57	20.11	23.36	30

Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

Max Antenna Gain:	2.2	dBi	Directional gain:	2.2	dBi
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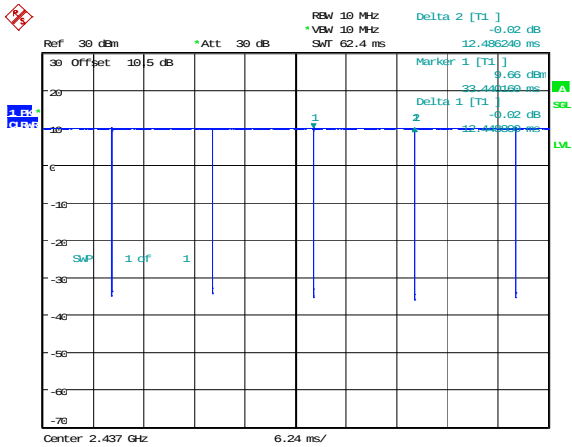
Duty Cycle

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	Chain 0	2437	12.449	12.486	99.70	/	/	0.010
802.11g	Chain 0	2437	2.061	2.094	98.42	/	/	0.010
802.11n20	Chain 0	2437	1.920	1.942	98.87	/	/	0.010
802.11ax20_RU_Full	Chain 0	2437	0.205	0.221	92.76	0.33	4878	5

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

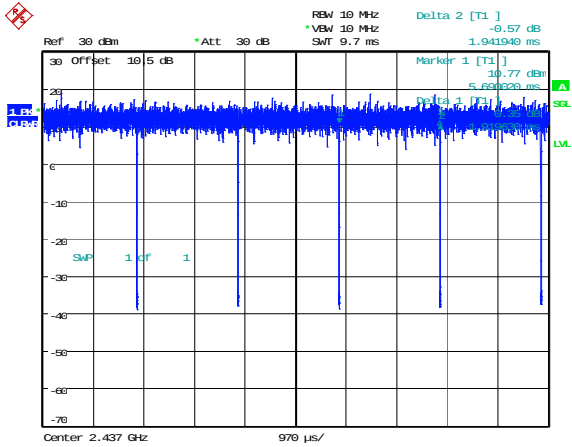
2.4G

802.11b_2437MHz_Chain 0



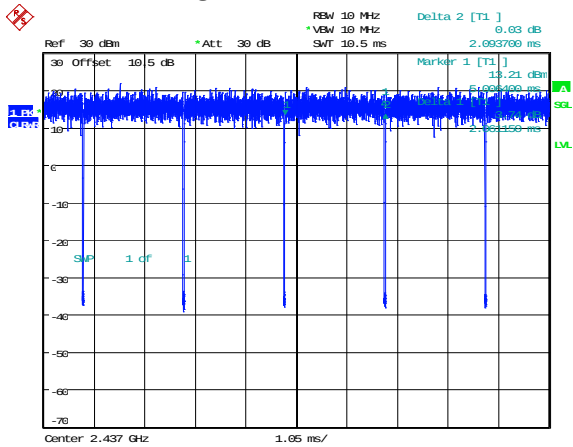
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 11:03:43

802.11n20_2437MHz_Chain 0



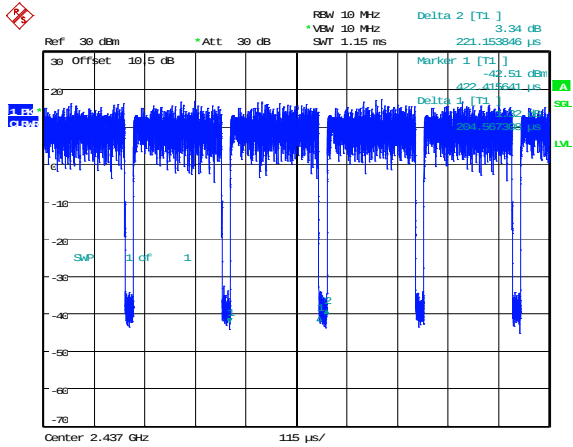
Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 11:06:11

802.11g_2437MHz_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 11:46:15

802.11ax20_2437MHz_RU_Full_Chain 0



Comment: ProjectNo.:2503P42421E-RF Tester:Lingling Li
Date: 7.FEB.2025 10:51:12