

Test Data:

Mode	Antenna	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11b	Chain 0	2412	19.09	15.69	30	Pass
		2437	18.97	15.44	30	Pass
		2462	18.99	15.33	30	Pass
	Chain 1	2412	19.48	15.87	30	Pass
		2437	19.03	15.37	30	Pass
		2462	18.88	15.25	30	Pass
	Chain 0+Chain 1	2412	22.30	18.79	30	Pass
		2437	22.01	18.42	30	Pass
		2462	21.95	18.30	30	Pass
802.11g	Chain 0	2412	18.70	9.05	30	Pass
		2437	18.30	8.99	30	Pass
		2462	18.52	9.10	30	Pass
	Chain 1	2412	18.49	8.60	30	Pass
		2437	18.20	8.45	30	Pass
		2462	18.33	8.51	30	Pass
	Chain 0+Chain 1	2412	21.61	11.84	30	Pass
		2437	21.26	11.74	30	Pass
		2462	21.44	11.83	30	Pass
802.11n20	Chain 0	2412	18.21	8.66	30	Pass
		2437	18.19	8.52	30	Pass
		2462	18.51	8.93	30	Pass
	Chain 1	2412	18.58	8.46	30	Pass
		2437	18.25	8.35	30	Pass
		2462	18.23	8.51	30	Pass
	Chain 0+Chain 1	2412	21.41	11.57	30	Pass
		2437	21.23	11.45	30	Pass
		2462	21.38	11.74	30	Pass

Mode	Antenna	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11n40	Chain 0	2422	18.54	7.90	30	Pass
		2437	18.35	8.00	30	Pass
		2452	18.82	7.71	30	Pass
	Chain 1	2422	18.62	7.56	30	Pass
		2437	18.50	6.53	30	Pass
		2452	18.54	7.23	30	Pass
	Chain 0+Chain 1	2422	21.59	10.74	30	Pass
		2437	21.44	10.34	30	Pass
		2452	21.69	10.49	30	Pass
802.11ax20_RU_Full	Chain 0	2412	19.15	9.49	30	Pass
		2437	19.05	9.55	30	Pass
		2462	19.42	9.94	30	Pass
	Chain 1	2412	19.32	9.44	30	Pass
		2437	18.95	9.13	30	Pass
		2462	19.04	9.18	30	Pass
	Chain 0+Chain 1	2412	22.25	12.48	30	Pass
		2437	22.01	12.36	30	Pass
		2462	22.24	12.59	30	Pass
802.11ax40_RU_Full	Chain 0	2422	18.96	8.30	30	Pass
		2437	18.97	8.18	30	Pass
		2452	19.49	8.41	30	Pass
	Chain 1	2422	18.61	7.96	30	Pass
		2437	18.60	7.63	30	Pass
		2452	18.40	7.76	30	Pass
	Chain 0+Chain 1	2422	21.80	11.14	30	Pass
		2437	21.80	10.92	30	Pass
		2452	21.99	11.11	30	Pass

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

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.47	dBi	Directional gain:	5.36	dBi
Chain 1 Gain:	2.22	dBi			

Power Spectral Density

Test Information:

Sample No.:	306X-1	Test Date:	2025/04/14~2025/06/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4-26.8	Relative Humidity: (%)	47-54	ATM Pressure: (kPa)	100.4~101
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Test Data:

Mode	Antenna	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	Chain 0	2412	-5.77	8	Pass
		2437	-6.41	8	Pass
		2462	-5.66	8	Pass
	Chain 1	2412	-4.72	8	Pass
		2437	-5.13	8	Pass
		2462	-5.28	8	Pass
	Chain 0+Chain 1	2412	-2.20	8	Pass
		2437	-2.71	8	Pass
		2462	-2.46	8	Pass
802.11g	Chain 0	2412	-12.02	8	Pass
		2437	-13.03	8	Pass
		2462	-12.61	8	Pass
	Chain 1	2412	-12.16	8	Pass
		2437	-13.30	8	Pass
		2462	-13.09	8	Pass
	Chain 0+Chain 1	2412	-9.08	8	Pass
		2437	-10.15	8	Pass
		2462	-9.83	8	Pass
802.11n20	Chain 0	2412	-12.69	8	Pass
		2437	-12.84	8	Pass
		2462	-13.42	8	Pass
	Chain 1	2412	-12.62	8	Pass
		2437	-12.44	8	Pass
		2462	-12.49	8	Pass
	Chain 0+Chain 1	2412	-9.64	8	Pass
		2437	-9.63	8	Pass
		2462	-9.92	8	Pass

Mode	Antenna	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11n40	Chain 0	2422	-15.56	8	Pass
		2437	-16.09	8	Pass
		2452	-15.08	8	Pass
	Chain 1	2422	-15.12	8	Pass
		2437	-15.58	8	Pass
		2452	-14.55	8	Pass
	Chain 0+Chain 1	2422	-12.32	8	Pass
		2437	-12.82	8	Pass
		2452	-11.80	8	Pass
802.11ax20_RU_Full	Chain 0	2412	-12.18	8	Pass
		2437	-12.68	8	Pass
		2462	-12.03	8	Pass
	Chain 1	2412	-12.66	8	Pass
		2437	-13.01	8	Pass
		2462	-12.13	8	Pass
	Chain 0+Chain 1	2412	-9.40	8	Pass
		2437	-9.83	8	Pass
		2462	-9.07	8	Pass
802.11ax40_RU_Full	Chain 0	2422	-14.59	8	Pass
		2437	-15.04	8	Pass
		2452	-14.81	8	Pass
	Chain 1	2422	-15.18	8	Pass
		2437	-15.36	8	Pass
		2452	-15.69	8	Pass
	Chain 0+Chain 1	2422	-11.86	8	Pass
		2437	-12.19	8	Pass
		2452	-12.22	8	Pass

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

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

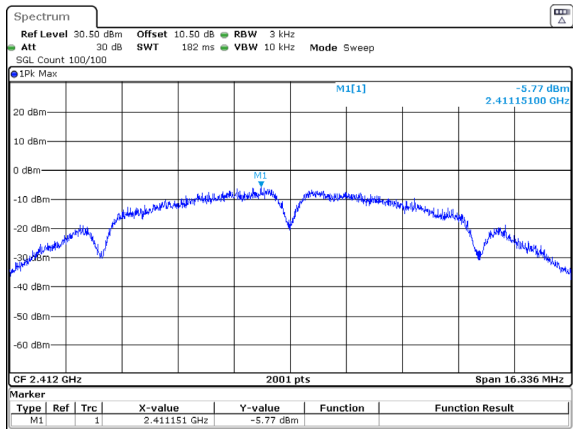
$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	2.47	dBi	Directional gain:	5.36	dBi
Chain 1 Gain:	2.22	dBi			

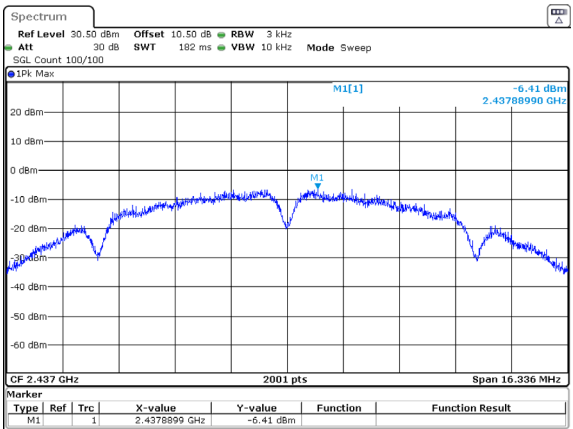
Chain 0

802.11b_2412MHz_Chain 0



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
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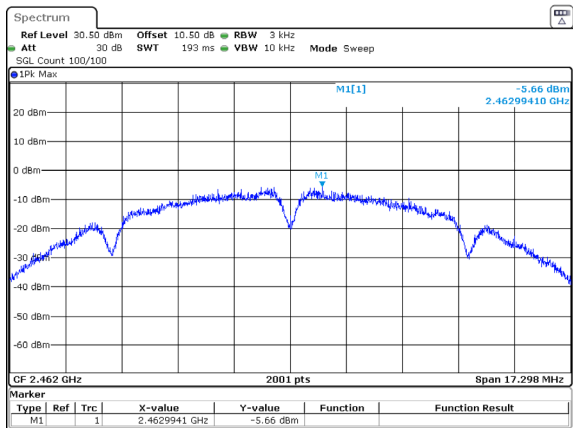
802.11b_2437MHz_Chain 0



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Date: 14.APR.2025 23:32:47

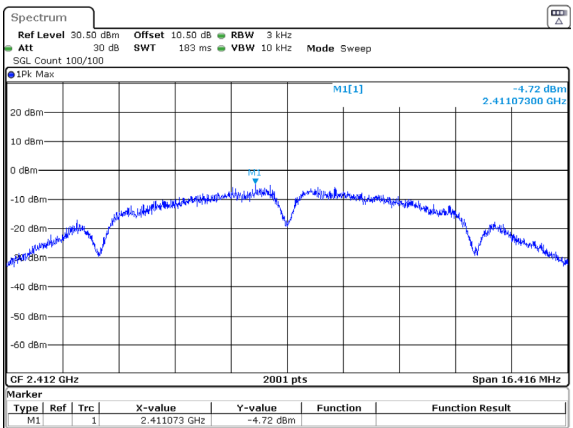
Chain 1

802.11b_2462MHz_Chain 0



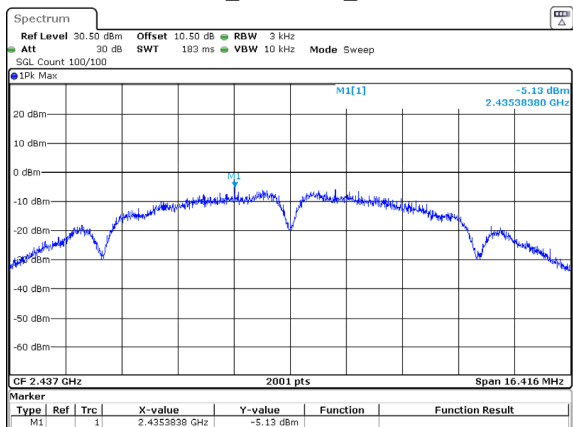
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802.11b_2412MHz_Chain 1



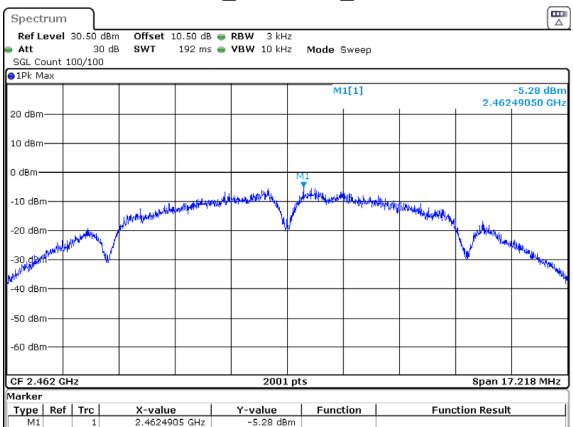
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802.11b_2437MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:53:59

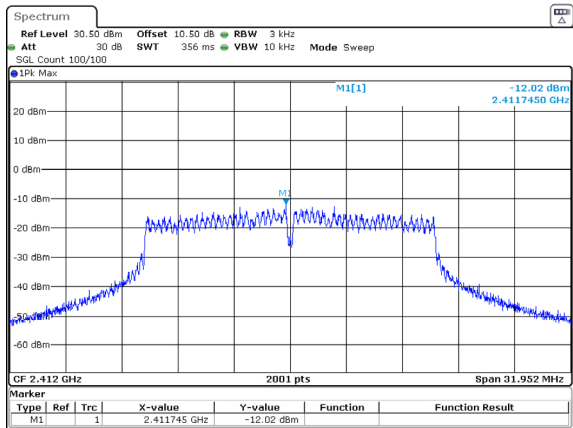
802.11b_2462MHz_Chain 1



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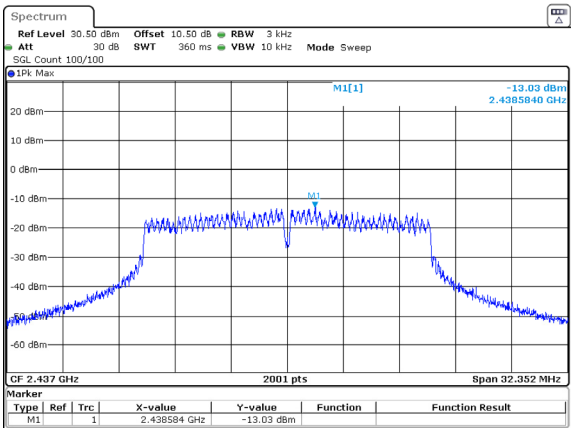
Chain 0

802.11g_2412MHz_Chain 0



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Date: 14.APR.2025 23:35:34

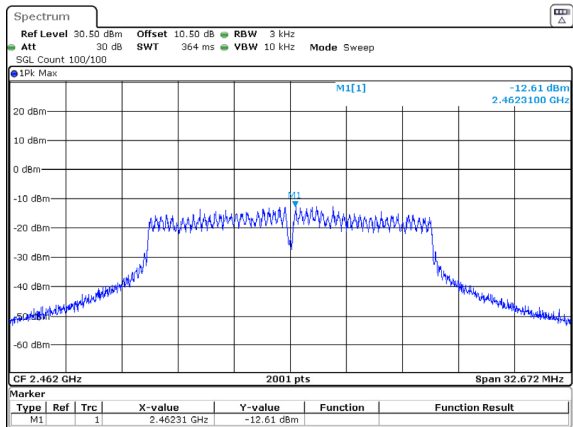
802.11g_2437MHz_Chain 0



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:36:51

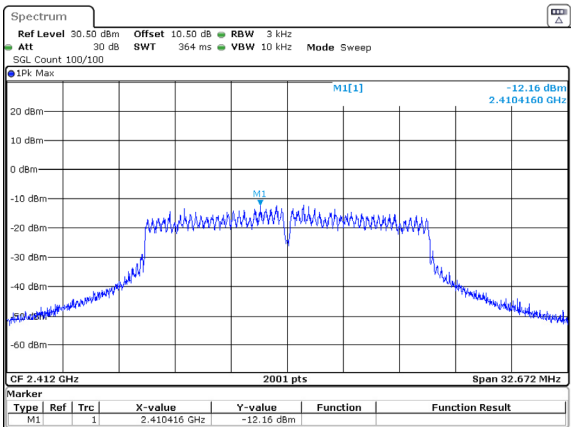
Chain 1

802.11g_2462MHz_Chain 0



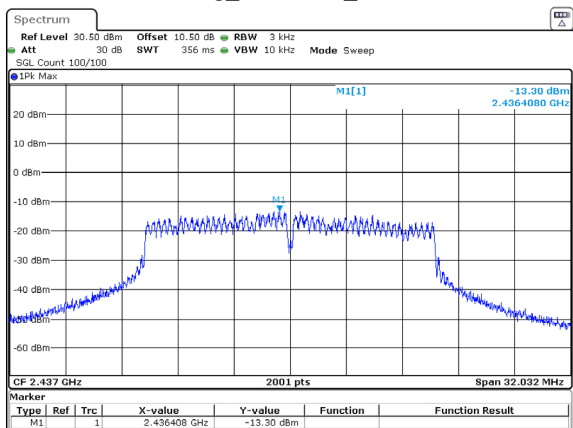
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802.11g_2412MHz_Chain 1



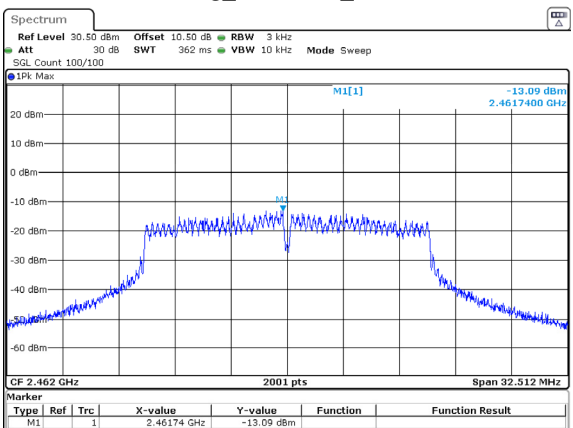
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802.11g_2437MHz_Chain 1



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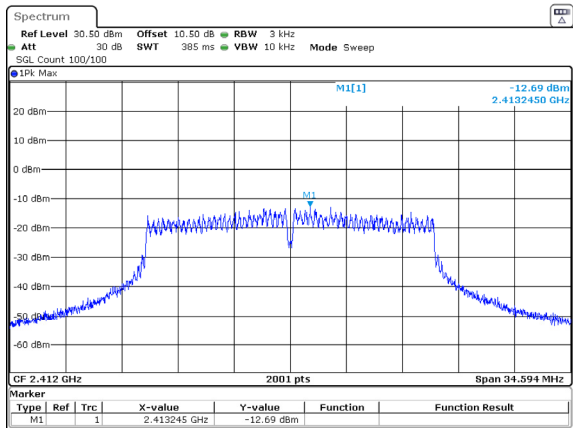
802.11g_2462MHz_Chain 1



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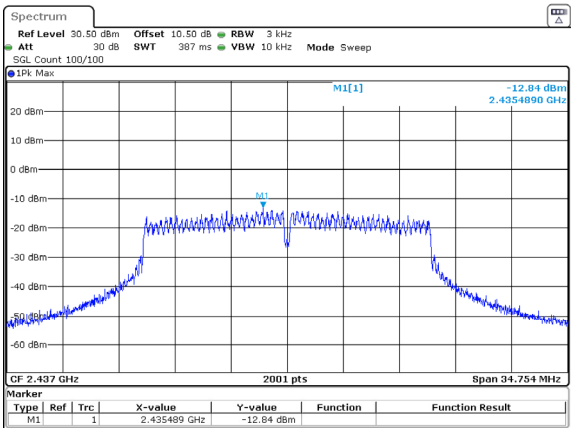
Chain 0

802.11n20_2412MHz_Chain 0



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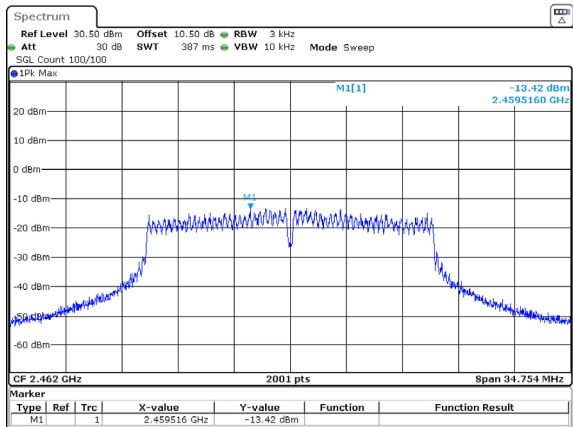
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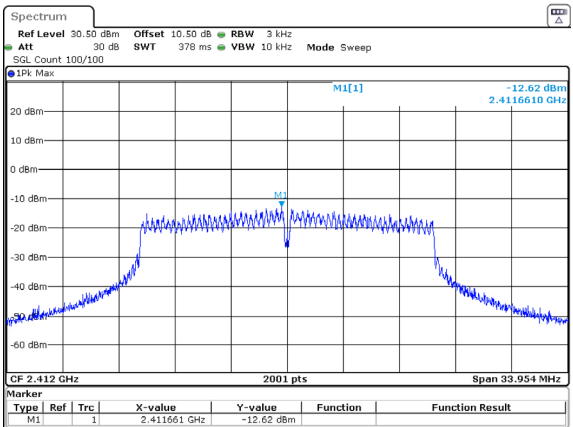
Chain 1

802.11n20_2462MHz_Chain 0



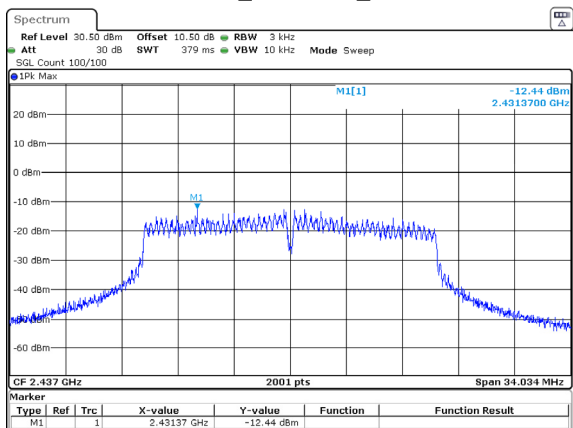
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Date: 14.APR.2025 23:43:34

802.11n20_2412MHz_Chain 1



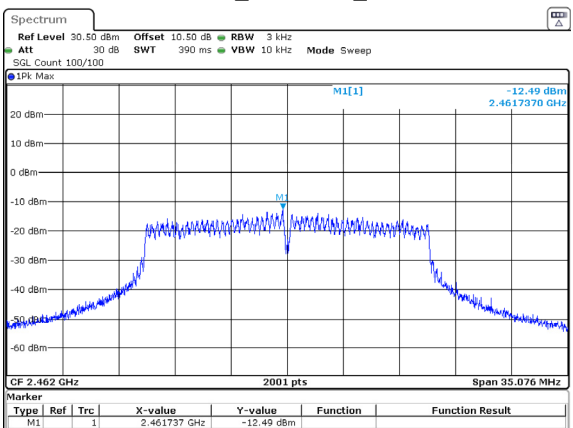
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Date: 15.APR.2025 00:00:43

802.11n20_2437MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 15.APR.2025 00:02:10

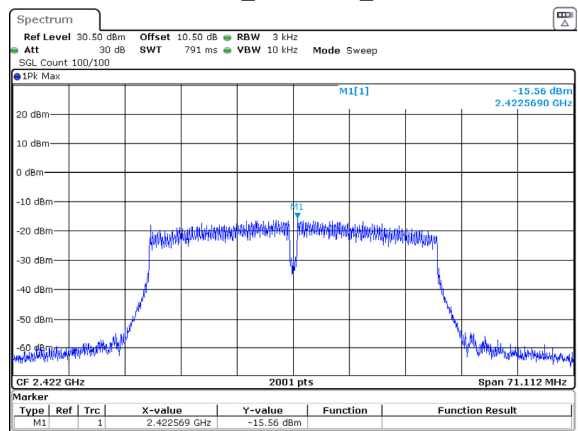
802.11n20_2462MHz_Chain 1



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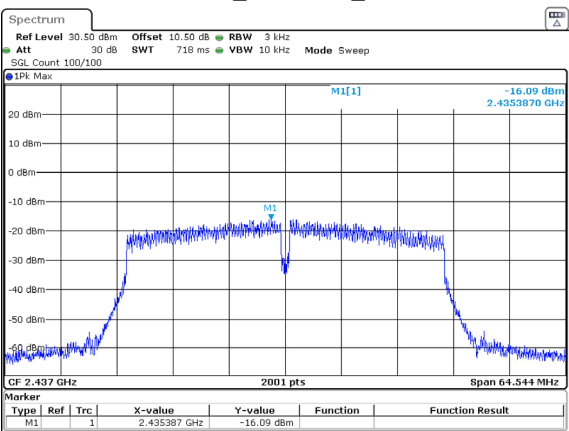
Chain 0

802.11n40_2422MHz_Chain 0



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:46:05

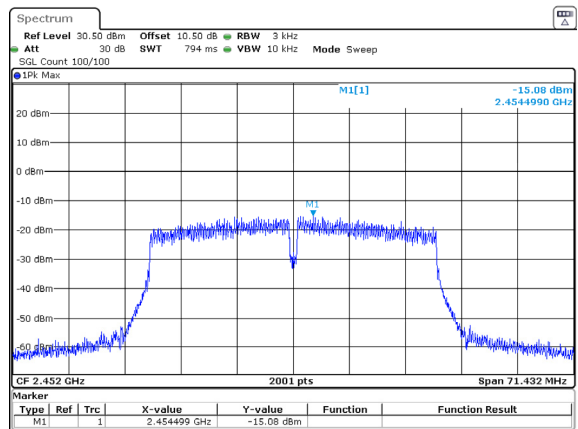
802.11n40_2437MHz_Chain 0



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Date: 14.APR.2025 23:48:16

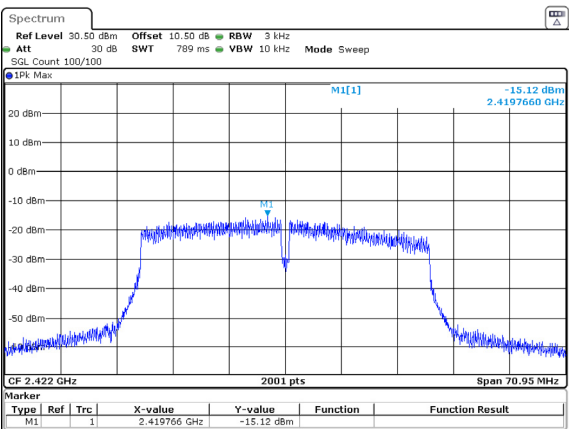
Chain 1

802.11n40_2452MHz_Chain 0



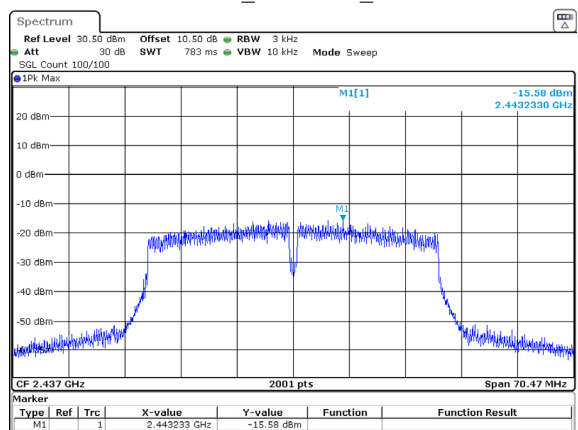
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802.11n40_2422MHz_Chain 1



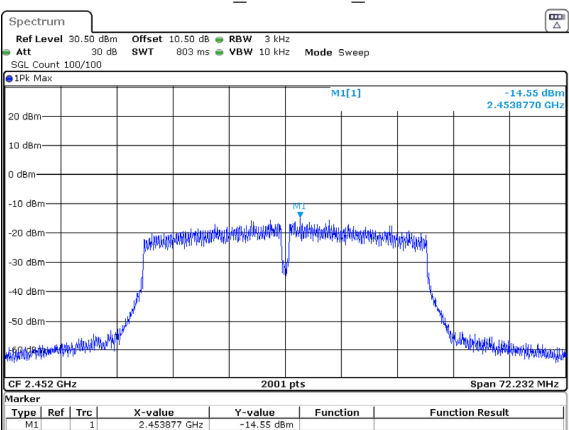
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Date: 15.APR.2025 00:06:08

802.11n40_2437MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 15.APR.2025 00:08:29

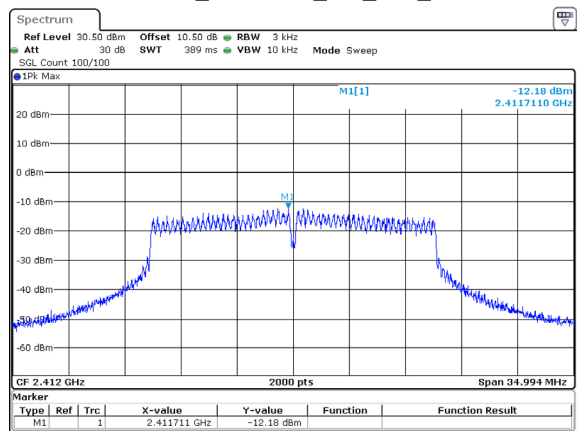
802.11n40_2452MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
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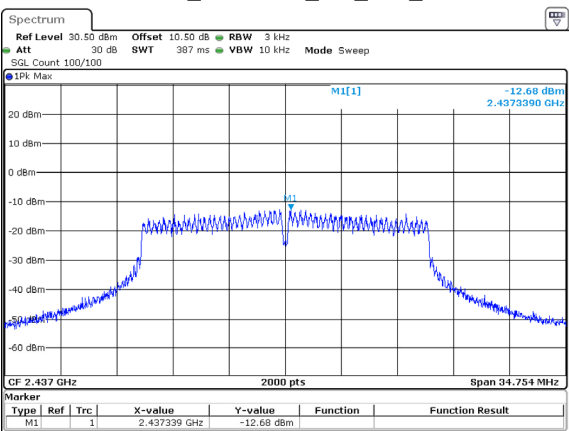
Chain 0

802.11ax20_2412MHz_RU_Full_Chain 0



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 30.MAY.2025 15:45:33

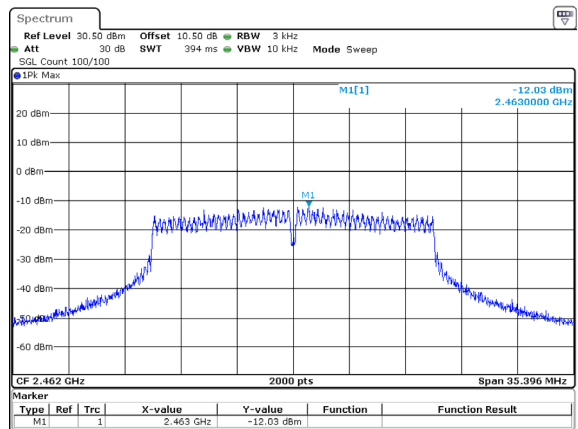
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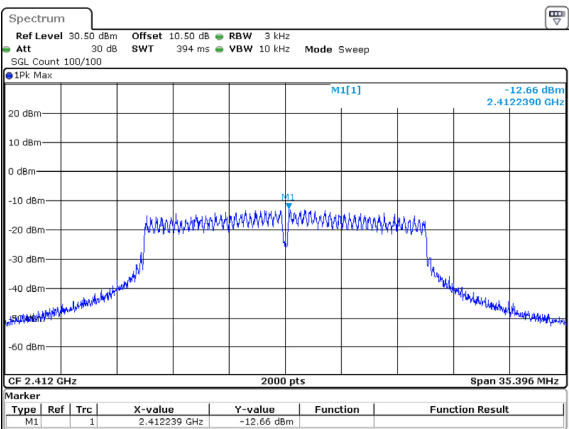
Chain 1

802.11ax20_2462MHz_RU_Full_Chain 0



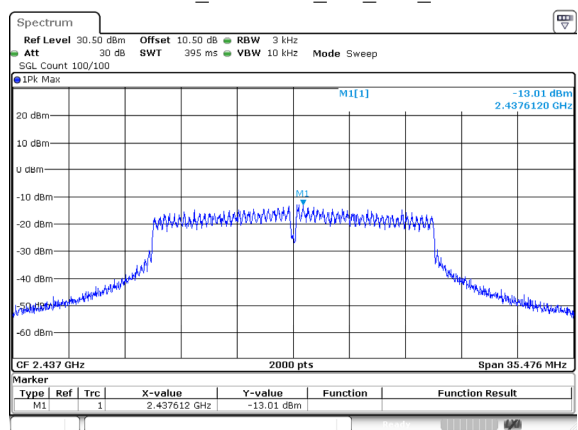
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802.11ax20_2412MHz_RU_Full_Chain 1



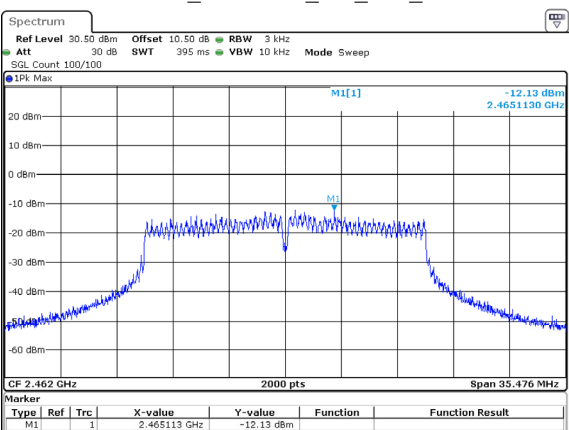
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802.11ax20_2437MHz_RU_Full_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
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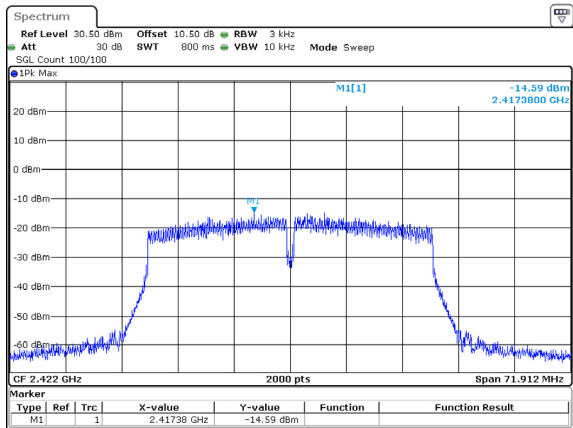
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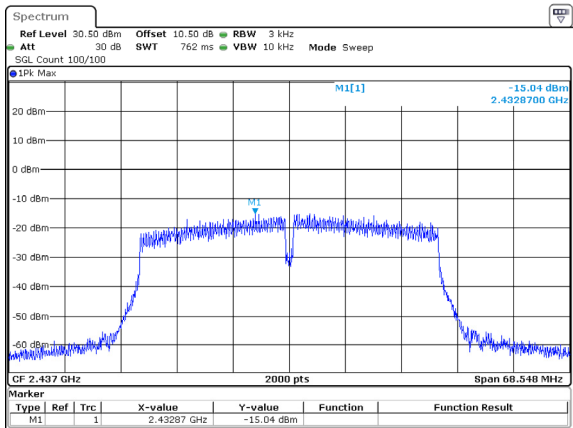
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Date: 30.MAY.2025 16:08:27

Chain 0

802.11ax40_2422MHz_RU_Full_Chain 0

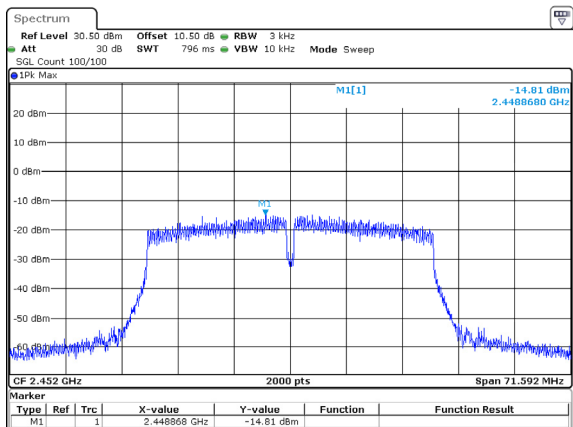


802.11ax40_2437MHz_RU_Full_Chain 0

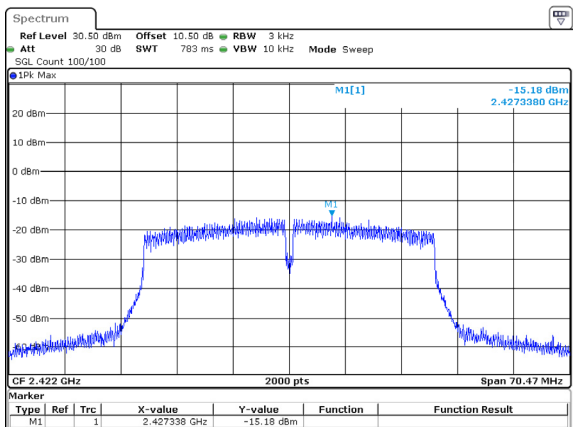


Chain 1

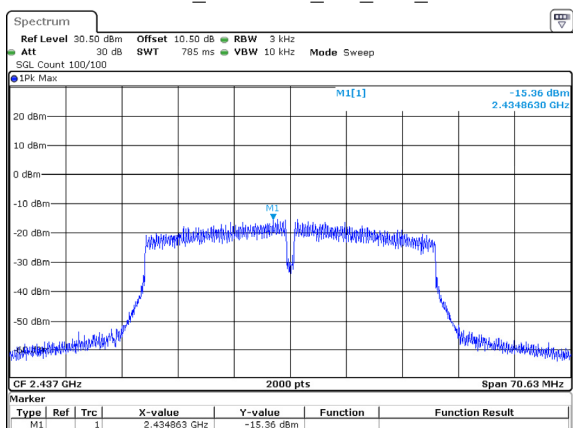
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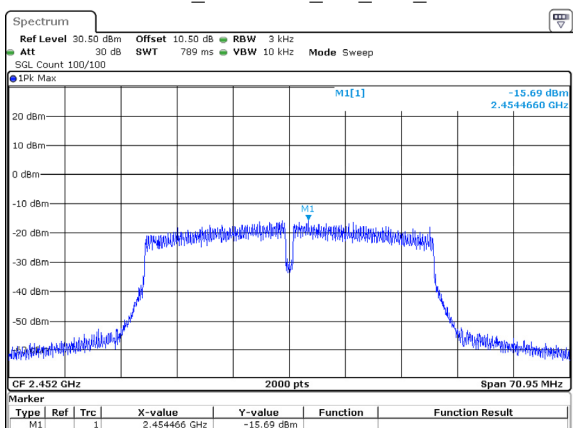
802.11ax40_2422MHz_RU_Full_Chain 1



802.11ax40_2437MHz_RU_Full_Chain 1



802.11ax40_2452MHz_RU_Full_Chain 1



100 kHz Bandwidth of Frequency Band Edge**Test Information:**

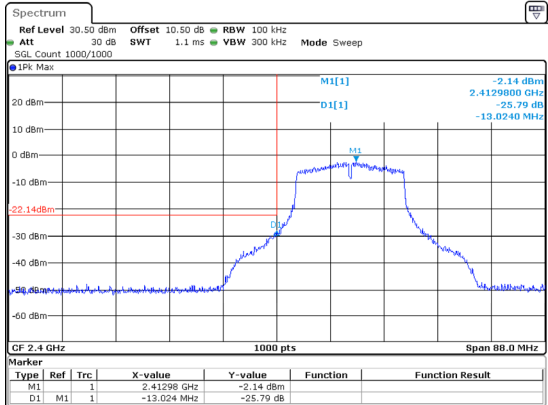
Sample No.:	306X-1	Test Date:	2025/04/14~2025/04/28
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4-26.8	Relative Humidity: (%)	47-54	ATM Pressure: (kPa)	100.4~101
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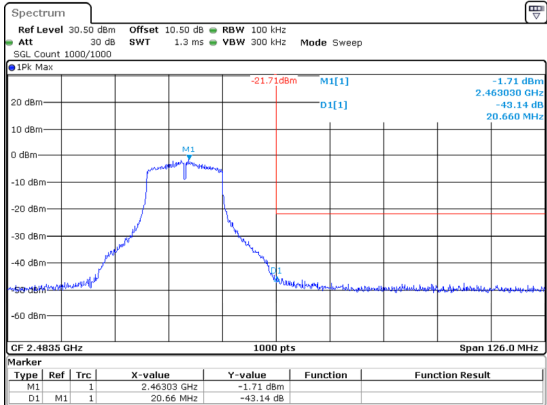
Test Data:

802.11ax20_2412MHz_RU_Full_Chain 0



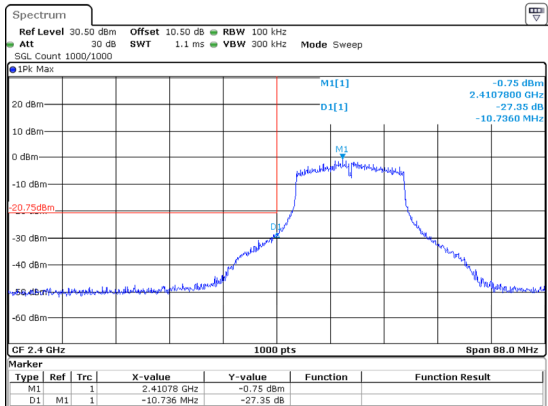
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Date: 28.APR.2025 16:33:06

802.11ax20_2462MHz_RU_Full_Chain 0



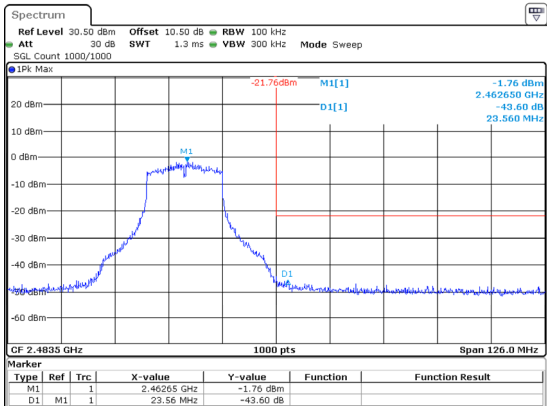
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 28.APR.2025 16:52:45

802.11ax20_2412MHz_RU_Full_Chain 1



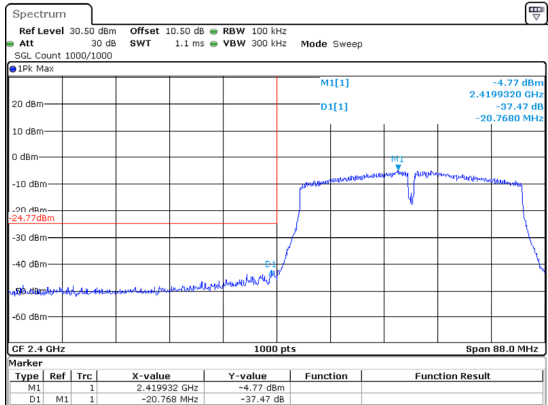
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 28.APR.2025 17:31:32

802.11ax20_2462MHz_RU_Full_Chain 1



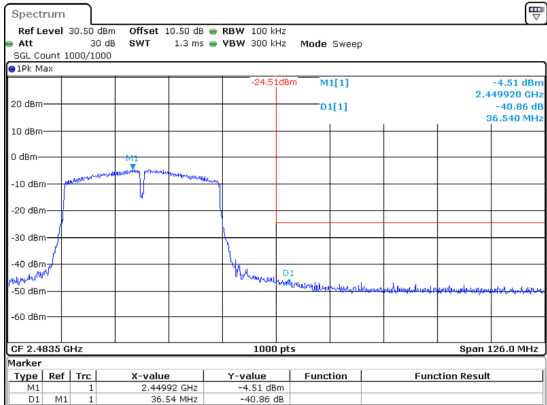
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 28.APR.2025 17:38:11

802.11ax40_2422MHz_RU_Full_Chain 0



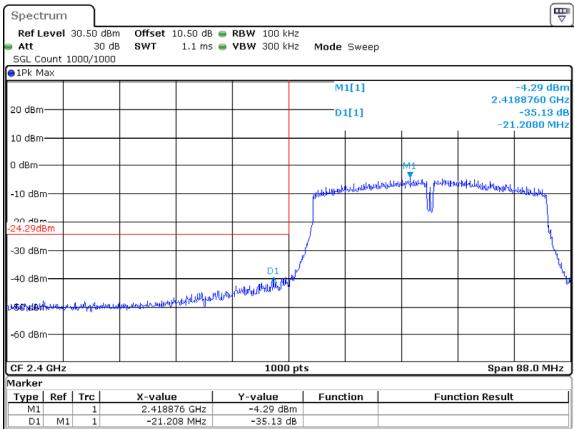
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Date: 28.APR.2025 17:03:11

802.11ax40_2452MHz_RU_Full_Chain 0



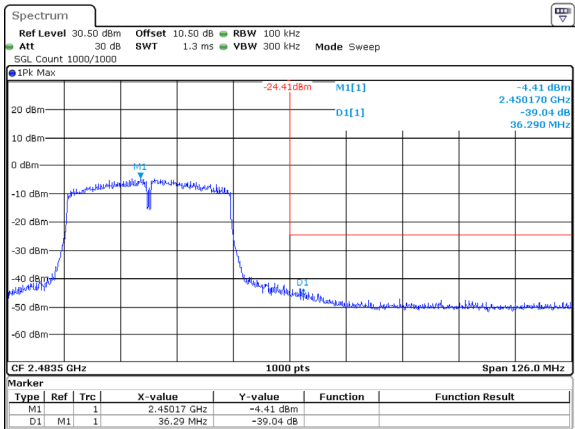
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Date: 28.APR.2025 17:10:22

802.11ax40_2422MHz_RU_Full_Chain 1



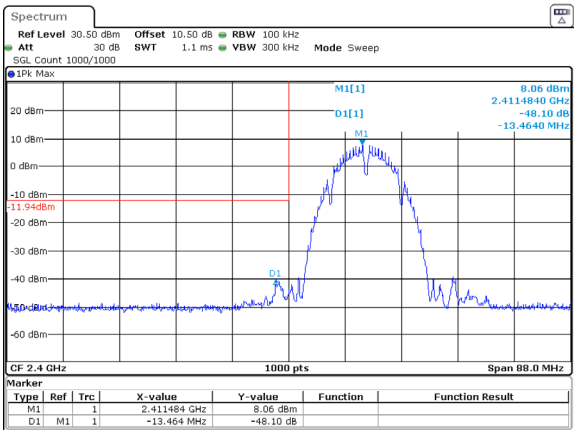
ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 28.APR.2025 17:42:54

802.11ax40_2452MHz_RU_Full_Chain 1



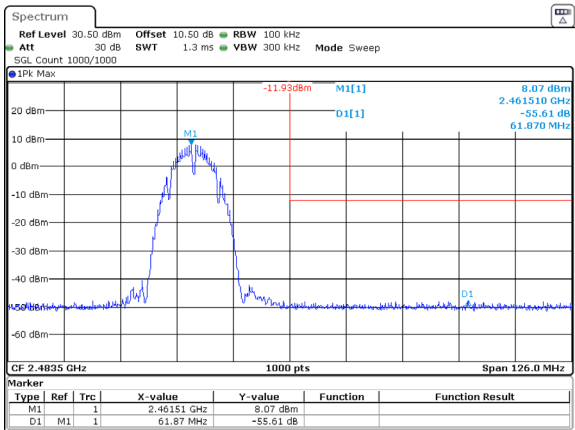
ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 28.APR.2025 17:50:49

802.11b_2412MHz_Chain 0



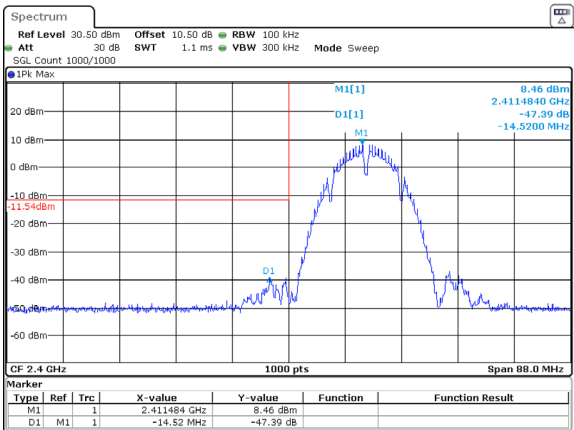
ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:14:50

802.11b_2462MHz_Chain 0



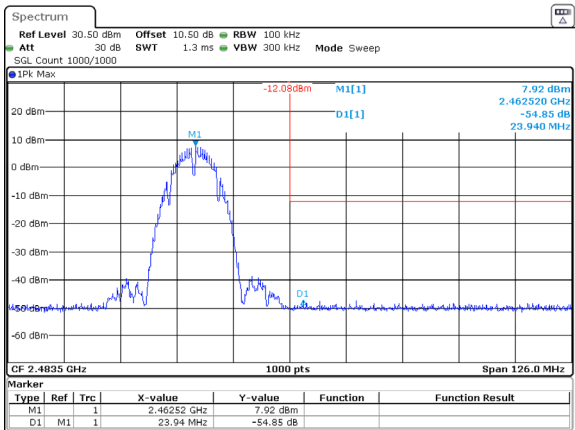
ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:15:35

802.11b_2412MHz_Chain 1



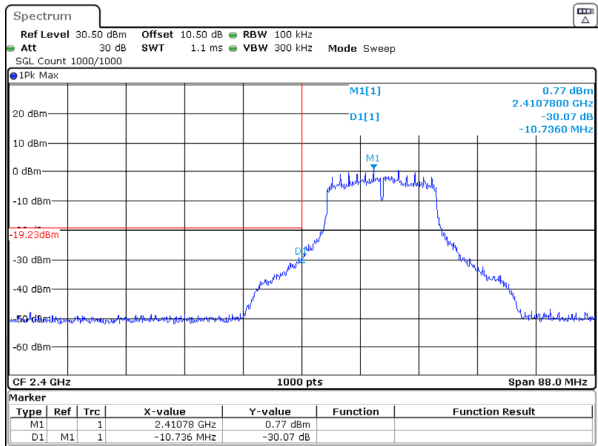
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Date: 14.APR.2025 23:22:20

802.11b_2462MHz_Chain 1

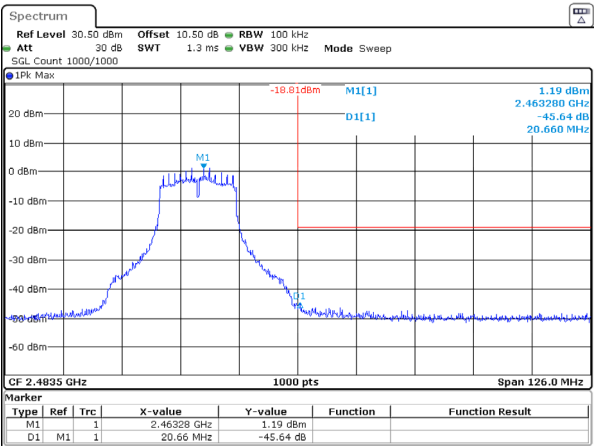


ProjectNo.:2501P42038E-RF Tester:Kungfumaster Liang
Date: 14.APR.2025 23:23:11

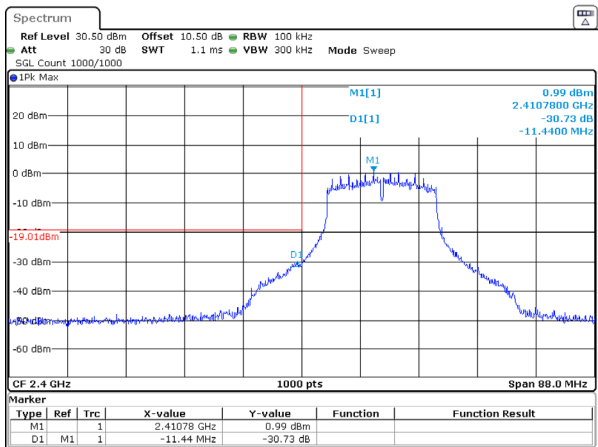
802.11g_2412MHz_Chain 0



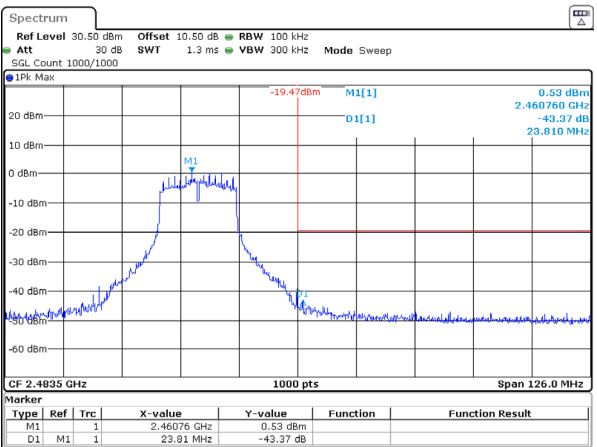
802.11g_2462MHz_Chain 0



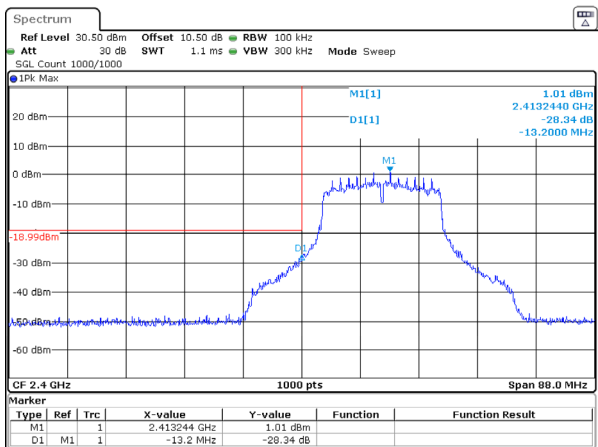
802.11g_2412MHz_Chain 1



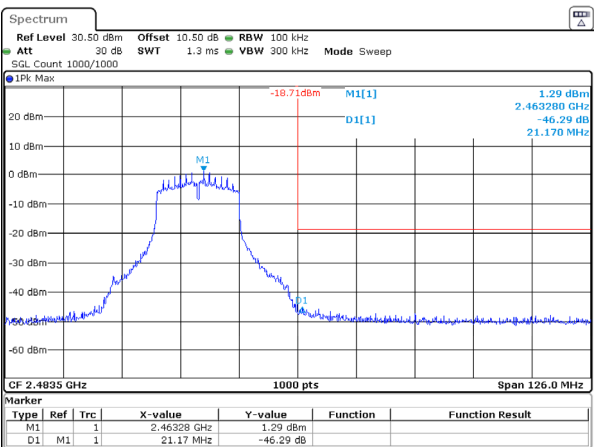
802.11g_2462MHz_Chain 1



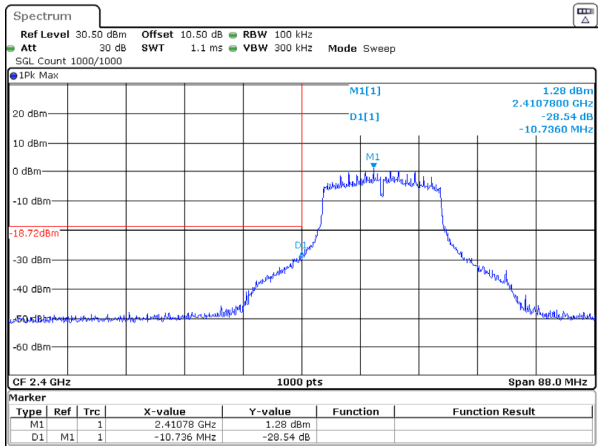
802.11n20_2412MHz_Chain 0



802.11n20_2462MHz_Chain 0

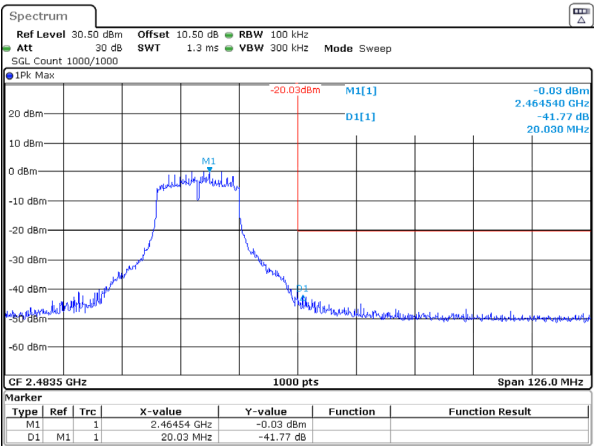


802.11n20_2412MHz_Chain 1



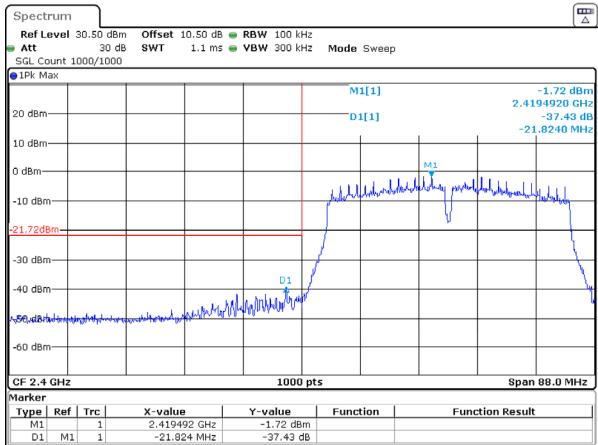
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Date: 14.APR.2025 23:25:39

802.11n20_2462MHz_Chain 1



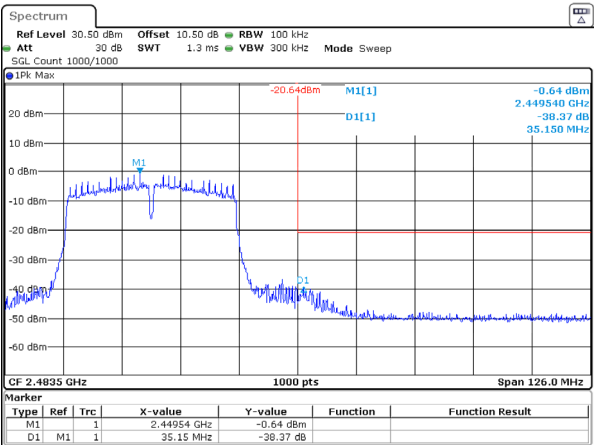
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 14.APR.2025 23:26:21

802.11n40_2422MHz_Chain 0



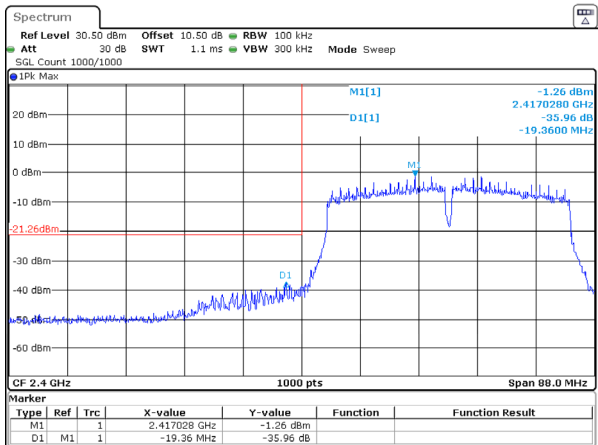
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 14.APR.2025 23:19:19

802.11n40_2452MHz_Chain 0



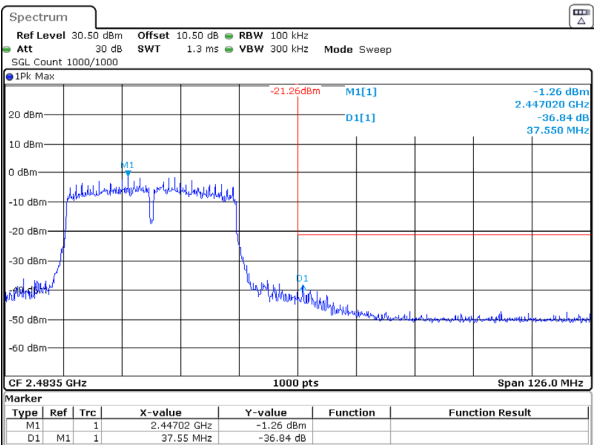
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 14.APR.2025 23:19:56

802.11n40_2422MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 14.APR.2025 23:27:12

802.11n40_2452MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 14.APR.2025 23:27:56

Duty Cycle

Test Information:

Sample No.:	306X-1	Test Date:	2025/04/15~2025/04/28
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

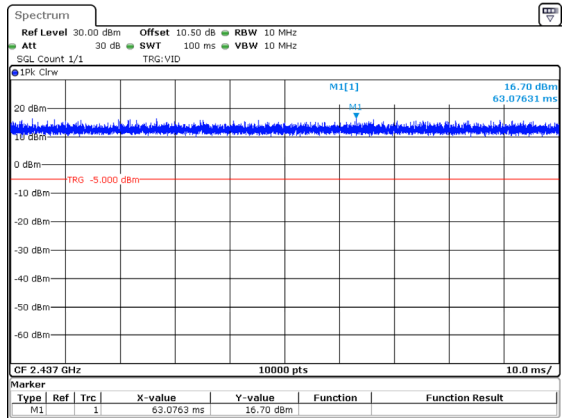
Temperature: (°C)	25.4-26.8	Relative Humidity: (%)	47-54	ATM Pressure: (kPa)	100.4~101
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Test Data:

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	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010
802.11g	Chain 0	2437	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010
802.11n20	Chain 0	2437	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010
802.11n40	Chain 0	2437	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010
802.11ax20_RU_Full	Chain 0	2437	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010
802.11ax40_RU_Full	Chain 0	2437	100	100	100	NA	NA	0.010
	Chain 1	2437	100	100	100	NA	NA	0.010

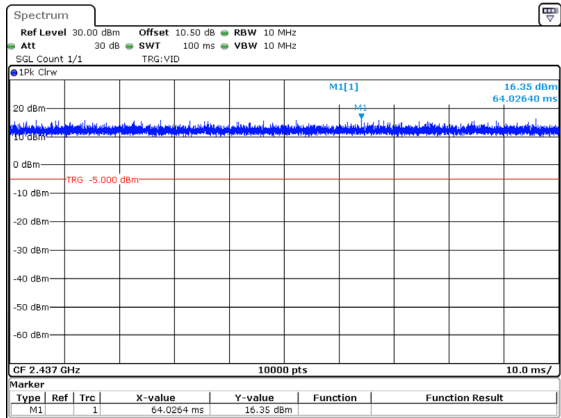
Duty Cycle = Ton/(Ton+Toff)*100%

802.11ax20_2437MHz_RU_Full_Chain 0



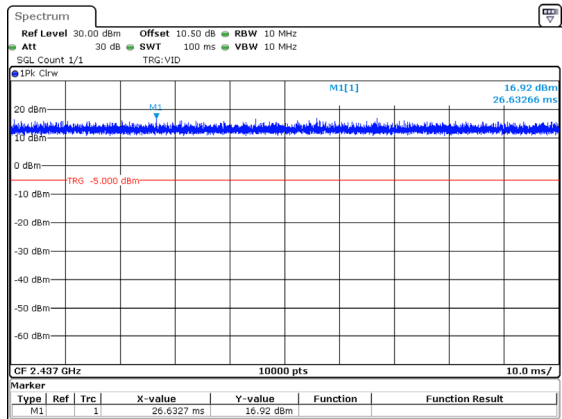
ProjectNo.:2501P42038E-RF Tester:Kungfumastr Liang
Date: 28.APR.2025 16:19:10

802.11ax20_2437MHz_RU_Full_Chain 1



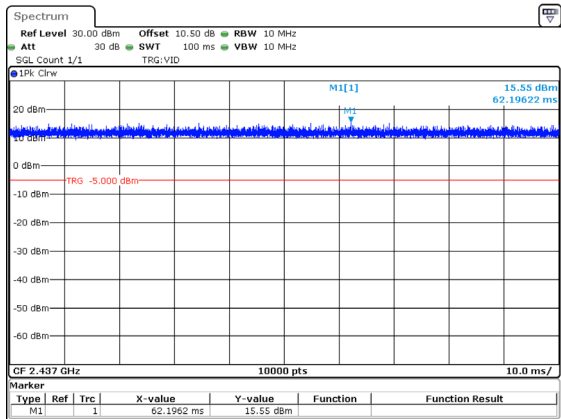
ProjectNo.:2501P42038E-RF Tester:Kungfumastr Liang
Date: 28.APR.2025 18:20:36

802.11ax40_2437MHz_RU_Full_Chain 0



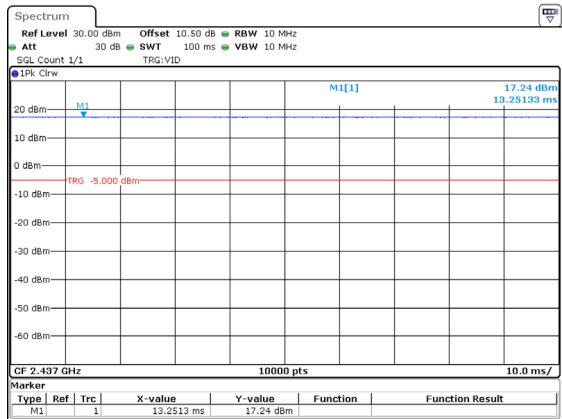
ProjectNo.:2501P42038E-RF Tester:Kungfumastr Liang
Date: 28.APR.2025 16:19:11

802.11ax40_2437MHz_RU_Full_Chain 1



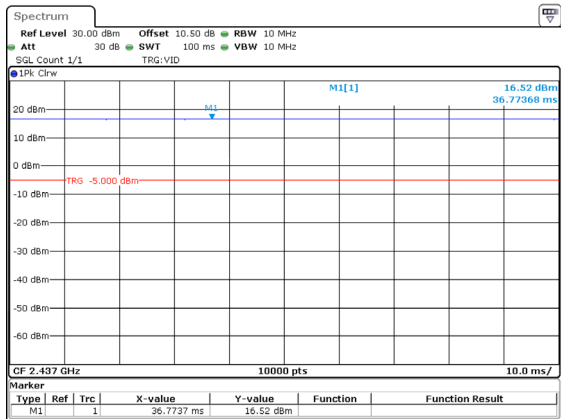
ProjectNo.:2501P42038E-RF Tester:Kungfumastr Liang
Date: 28.APR.2025 18:23:32

802.11b_2437MHz_Chain 0



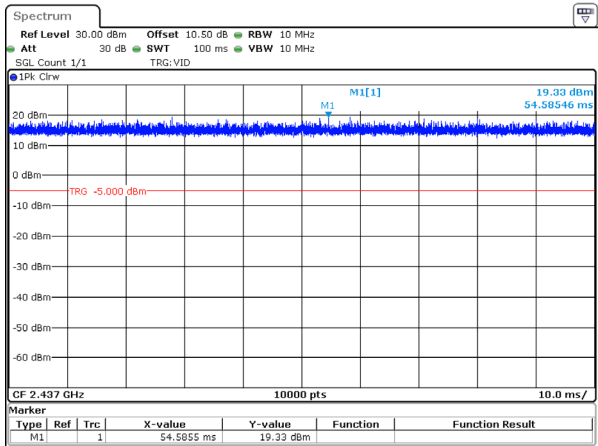
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Date: 15.APR.2025 22:52:51

802.11b_2437MHz_Chain 1



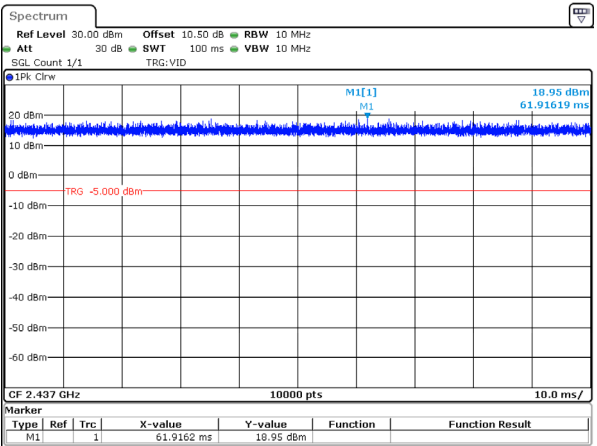
ProjectNo.:2501P42038E-RF Tester:Kungfumastr Liang
Date: 15.APR.2025 23:31:33

802.11g_2437MHz_Chain 0



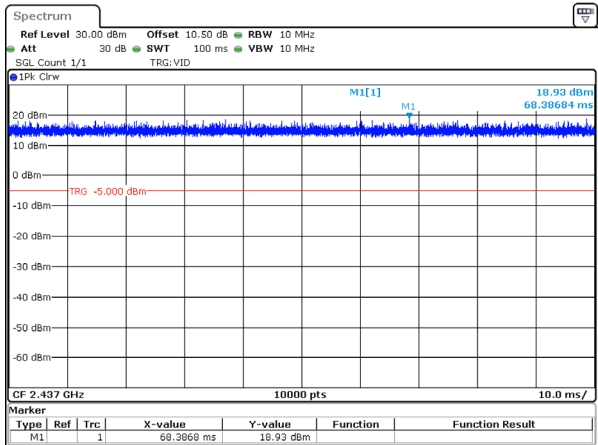
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Date: 15.APR.2025 22:55:46

802.11g_2437MHz_Chain 1



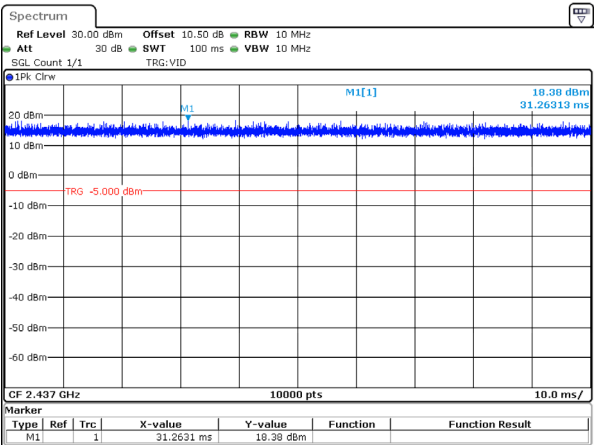
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 15.APR.2025 23:34:11

802.11n20_2437MHz_Chain 0



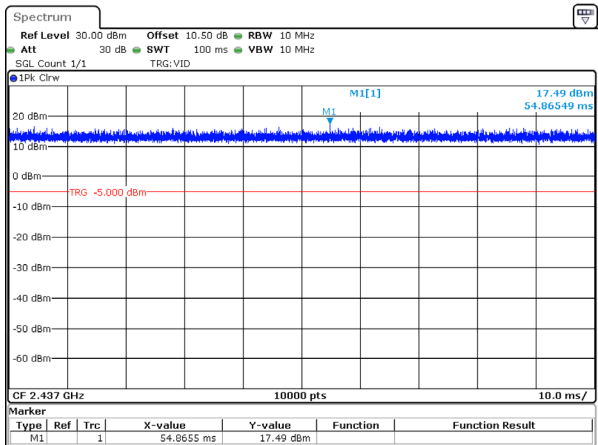
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Date: 15.APR.2025 22:56:50

802.11n20_2437MHz_Chain 1



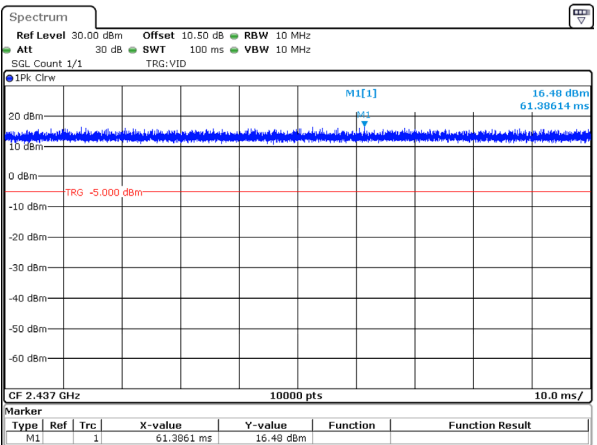
ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 15.APR.2025 23:34:42

802.11n40_2437MHz_Chain 0



ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 15.APR.2025 22:57:29

802.11n40_2437MHz_Chain 1



ProjectNo.:2501P42038E-RF Tester:Kungfumaater Liang
Date: 15.APR.2025 23:35:18

RF EXPOSURE EVALUATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: 2501P42038E-SA.

EUT PHOTOGRAPHS

Please refer to the attachment 2501P42038E-RF External photo and 2501P42038E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501P42038E-RF-00A Test Setup photo.

******* END OF REPORT *******