

Test Information:

Sample No.:	20XN-2	Test Date:	2024/08/14~2024/08/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	PASS

Environmental Conditions:

Temperature: (°C):	26.1-26.5	Relative Humidity: (%)	51-62	ATM Pressure: (kPa)	100.5-100.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31

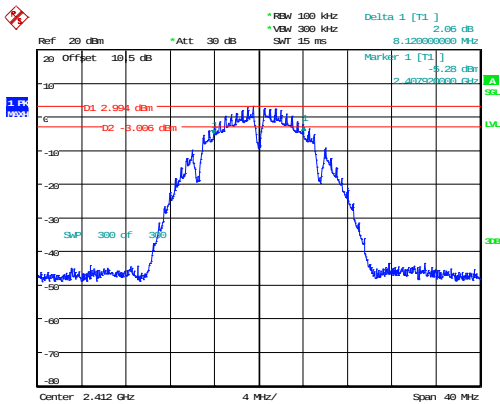
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

6dB Emission Bandwidth**2.4G**

Mode	Value (MHz)	Limit (MHz)	Result
b_2412MHz_Chain 0	8.120	≥ 0.5	Pass
b_2412MHz_Chain 1	8.160	≥ 0.5	Pass
b_2437MHz_Chain 0	8.120	≥ 0.5	Pass
b_2437MHz_Chain 1	8.120	≥ 0.5	Pass
b_2462MHz_Chain 0	8.160	≥ 0.5	Pass
b_2462MHz_Chain 1	8.600	≥ 0.5	Pass
g_2412MHz_Chain 0	16.440	≥ 0.5	Pass
g_2412MHz_Chain 1	16.400	≥ 0.5	Pass
g_2437MHz_Chain 0	16.440	≥ 0.5	Pass
g_2437MHz_Chain 1	16.440	≥ 0.5	Pass
g_2462MHz_Chain 0	16.440	≥ 0.5	Pass
g_2462MHz_Chain 1	16.400	≥ 0.5	Pass
n20_2412MHz_Chain 0	17.680	≥ 0.5	Pass
n20_2412MHz_Chain 1	17.680	≥ 0.5	Pass
n20_2437MHz_Chain 0	17.640	≥ 0.5	Pass
n20_2437MHz_Chain 1	17.680	≥ 0.5	Pass
n20_2462MHz_Chain 0	17.680	≥ 0.5	Pass
n20_2462MHz_Chain 1	17.680	≥ 0.5	Pass

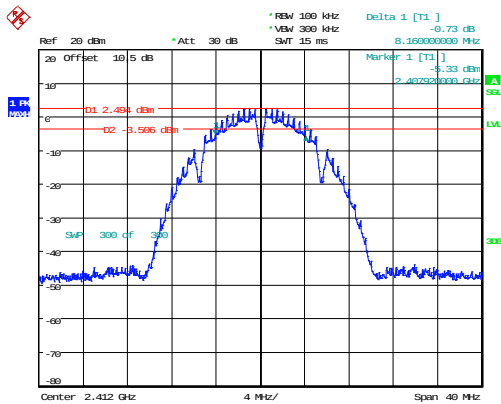
2.4G

b_2412MHz_Chain 0 8.120MHz



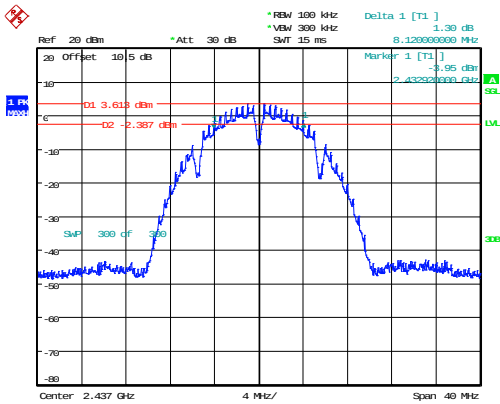
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:02:23

b_2412MHz_Chain 1 8.160MHz



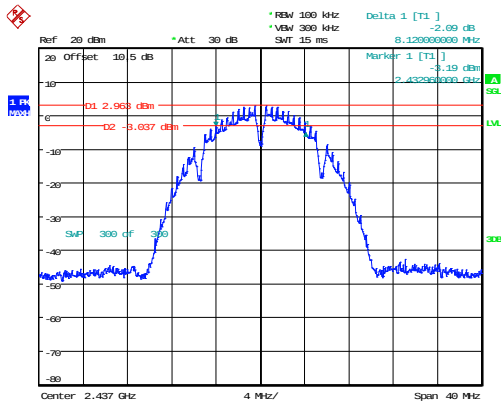
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:08:29

b_2437MHz_Chain 0 8.120MHz



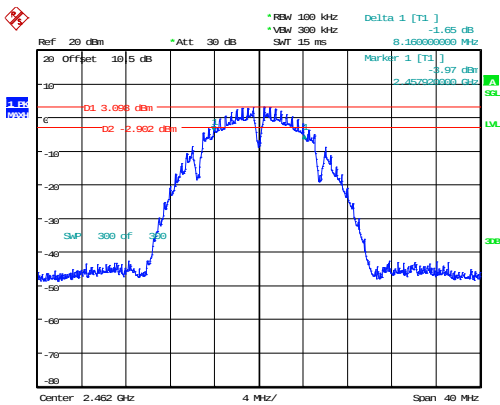
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Date: 14.AUG.2024 00:04:23

b_2437MHz_Chain 1 8.120MHz



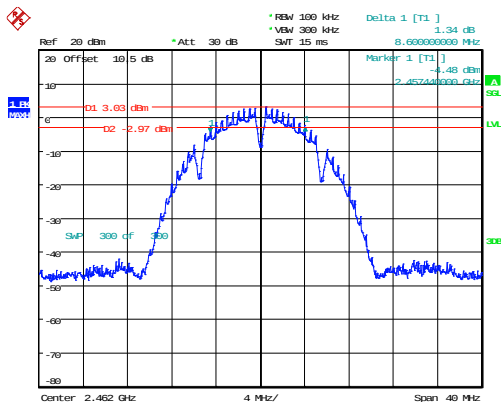
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Date: 14.AUG.2024 21:09:53

b_2462MHz_Chain 0 8.160MHz



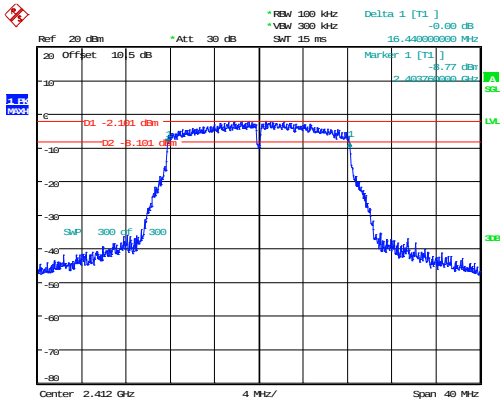
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Date: 14.AUG.2024 00:08:14

b_2462MHz_Chain 1 8.600MHz



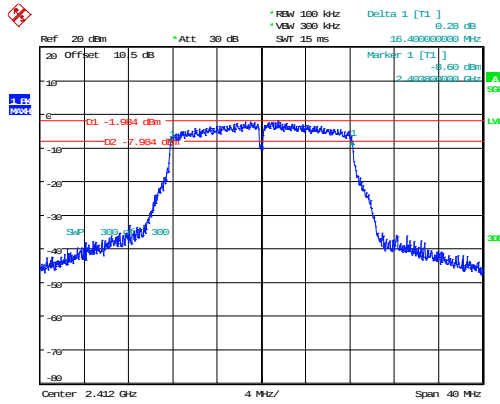
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:12:31

g_2412MHz_Chain 0 16.440MHz



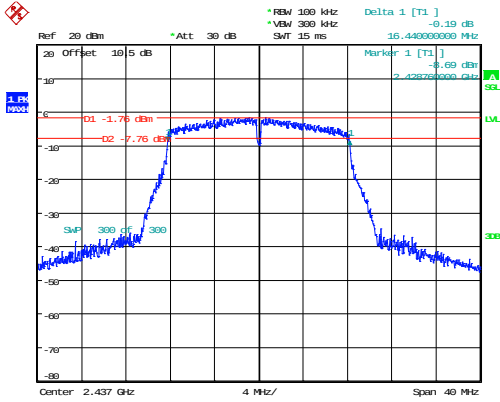
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Date: 14.AUG.2024 00:11:58

g_2412MHz_Chain 1 16.400MHz



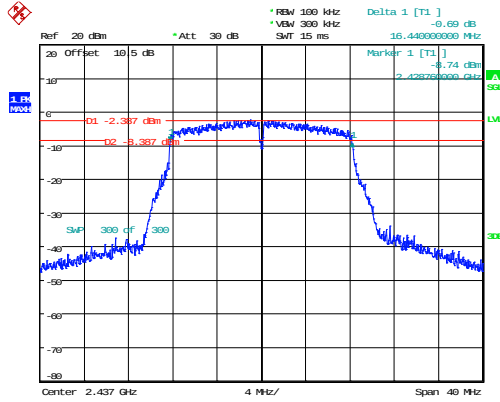
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Date: 14.AUG.2024 21:15:16

g_2437MHz_Chain 0 16.440MHz



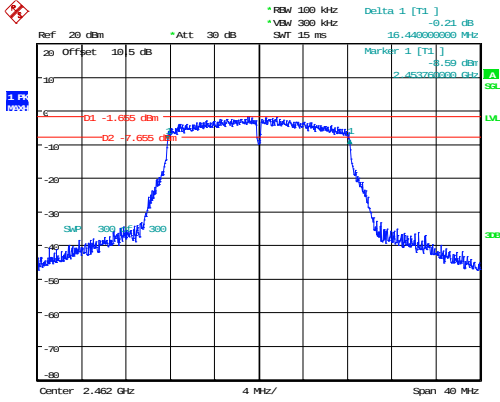
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g_2437MHz_Chain 1 16.440MHz



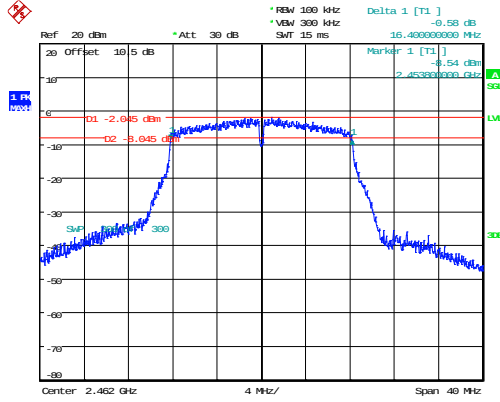
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g_2462MHz_Chain 0 16.440MHz



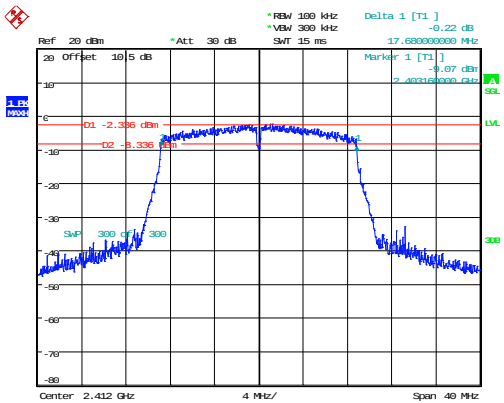
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g_2462MHz_Chain 1 16.400MHz



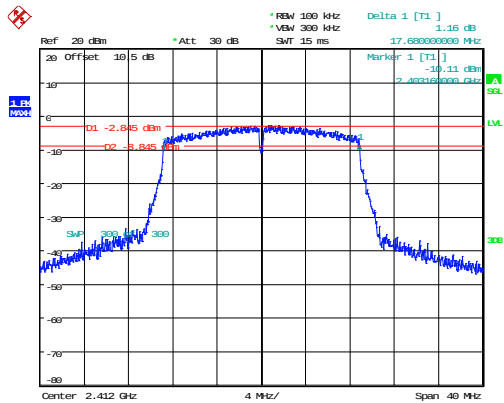
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:19:28

n20_2412MHz_Chain 0 17.680MHz



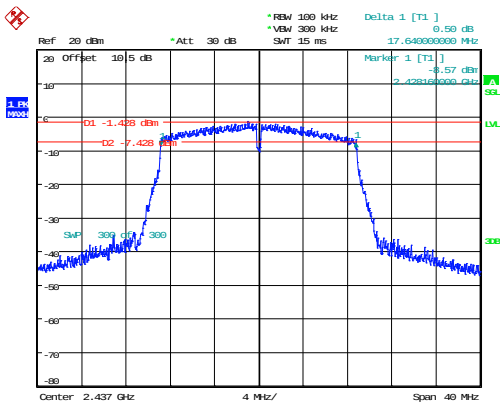
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n20_2412MHz_Chain 1 17.680MHz



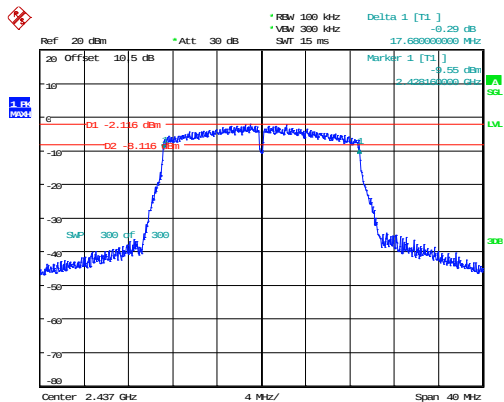
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Date: 14.AUG.2024 21:22:29

n20_2437MHz_Chain 0 17.640MHz



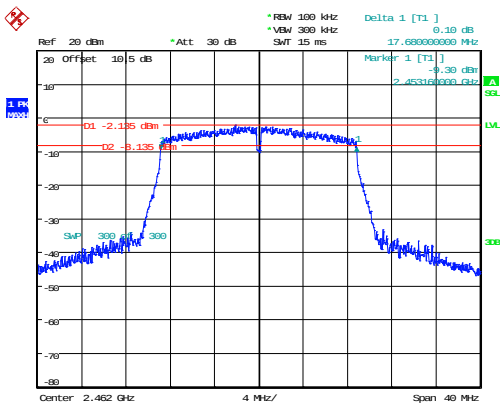
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n20_2437MHz_Chain 1 17.680MHz



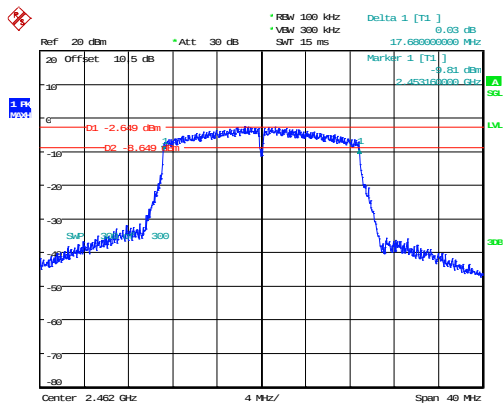
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Date: 14.AUG.2024 21:26:01

n20_2462MHz_Chain 0 17.680MHz



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:28:23

n20_2462MHz_Chain 1 17.680MHz



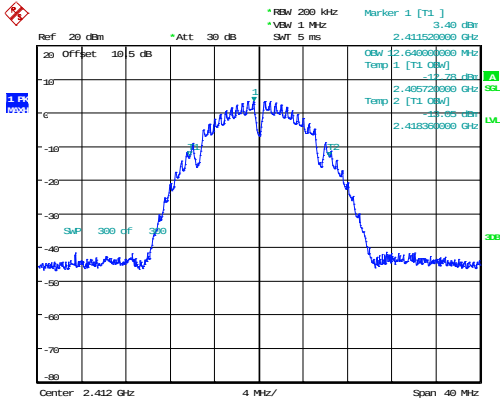
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:29:09

99% Occupied Bandwidth**2.4G**

Mode	99% OBW (MHz)
b_2412MHz_Chain 0	12.640
b_2412MHz_Chain 1	12.760
b_2437MHz_Chain 0	12.760
b_2437MHz_Chain 1	12.800
b_2462MHz_Chain 0	12.760
b_2462MHz_Chain 1	13
g_2412MHz_Chain 0	16.520
g_2412MHz_Chain 1	16.480
g_2437MHz_Chain 0	16.520
g_2437MHz_Chain 1	16.560
g_2462MHz_Chain 0	16.560
g_2462MHz_Chain 1	16.600
n20_2412MHz_Chain 0	17.640
n20_2412MHz_Chain 1	17.560
n20_2437MHz_Chain 0	17.600
n20_2437MHz_Chain 1	17.680
n20_2462MHz_Chain 0	17.680
n20_2462MHz_Chain 1	17.680

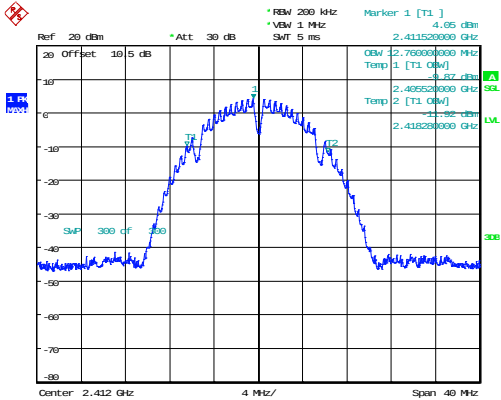
2.4G

b_2412MHz_Chain 0 12.640MHz



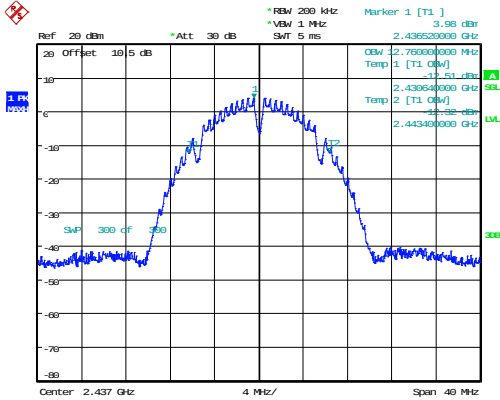
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:03:09

b_2412MHz_Chain 1 12.760MHz



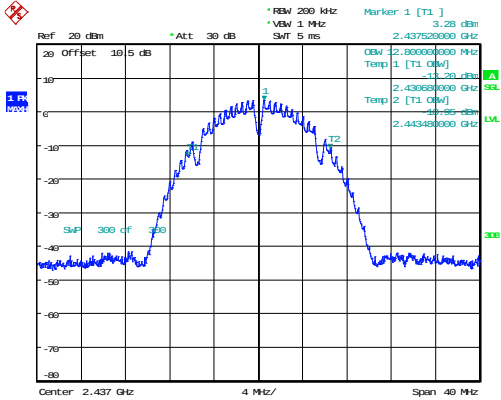
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 21:03:38

b_2437MHz_Chain 0 12.760MHz



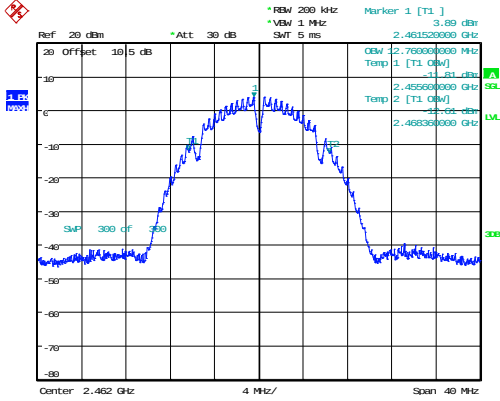
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b_2437MHz_Chain 1 12.800MHz



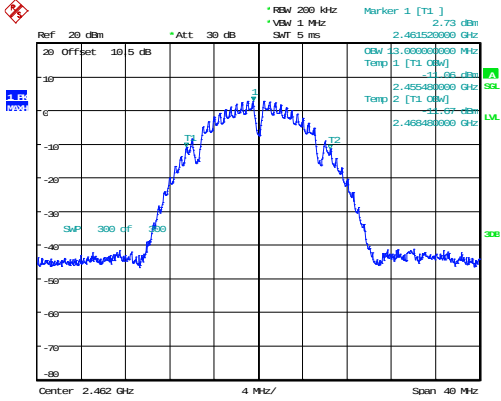
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 21:04:27

b_2462MHz_Chain 0 12.760MHz



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:09:07

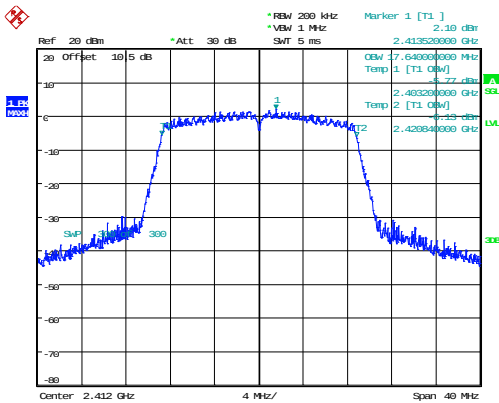
b_2462MHz_Chain 1 13MHz



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 21:07:33

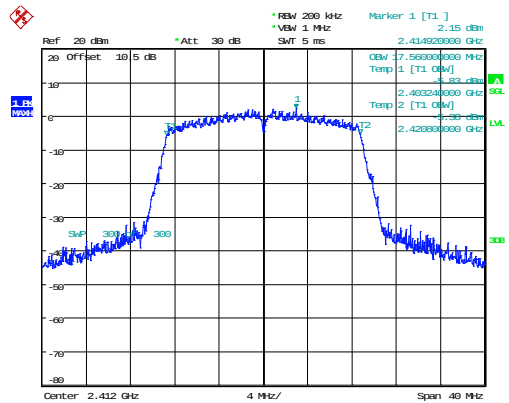


n20_2412MHz_Chain 0 17.640MHz



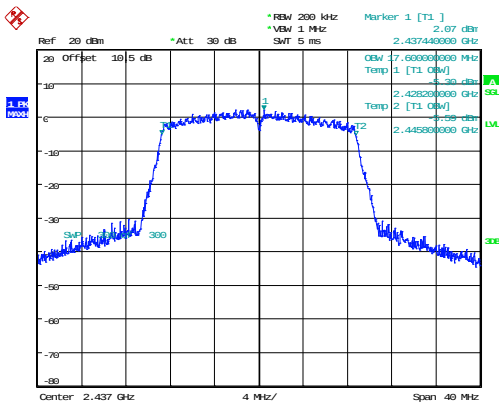
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Date: 14.AUG.2024 00:22:26

n20_2412MHz_Chain 1 17.560MHz



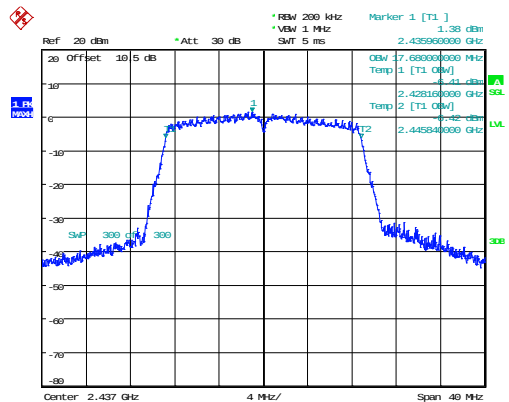
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 22:11:09

n20_2437MHz_Chain 0 17.600MHz



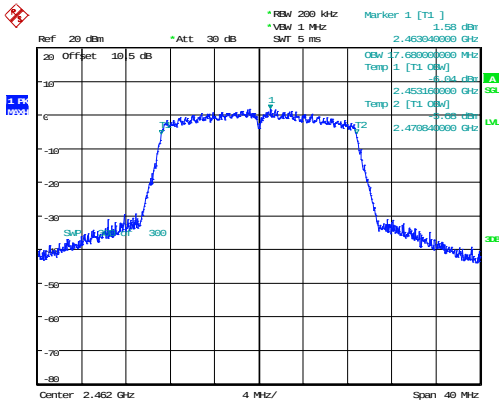
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:25:15

n20_2437MHz_Chain 1 17.680MHz



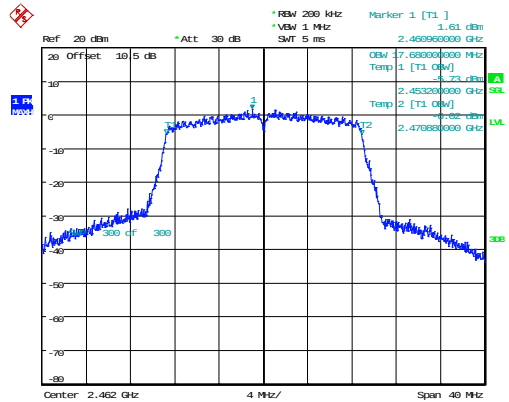
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 22:03:54

n20_2462MHz_Chain 0 17.680MHz



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:29:18

n20_2462MHz_Chain 1 17.680MHz



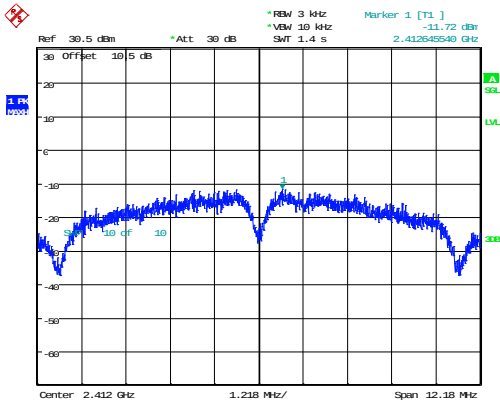
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 29.AUG.2024 22:05:00

Power Spectral Density**2.4G**

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
b_2412MHz_Chain 0	-11.72	8	Pass
b_2412MHz_Chain 1	-11.26	8	Pass
b_2437MHz_Chain 0	-9.64	8	Pass
b_2437MHz_Chain 1	-10.10	8	Pass
b_2462MHz_Chain 0	-10.14	8	Pass
b_2462MHz_Chain 1	-11.15	8	Pass
g_2412MHz_Chain 0	-13.44	8	Pass
g_2412MHz_Chain 1	-13.54	8	Pass
g_2437MHz_Chain 0	-13.39	8	Pass
g_2437MHz_Chain 1	-13.79	8	Pass
g_2462MHz_Chain 0	-12.78	8	Pass
g_2462MHz_Chain 1	-14.10	8	Pass
n20_2412MHz_Chain 0	-13.85	8	Pass
n20_2412MHz_Chain 1	-13.98	8	Pass
n20_2437MHz_Chain 0	-13.43	8	Pass
n20_2437MHz_Chain 1	-13.27	8	Pass
n20_2462MHz_Chain 0	-13.62	8	Pass
n20_2462MHz_Chain 1	-14.57	8	Pass

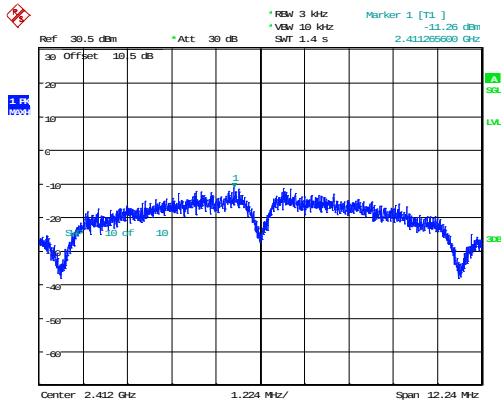
2.4G

b_2412MHz_Chain 0 -11.72dBm/3kHz



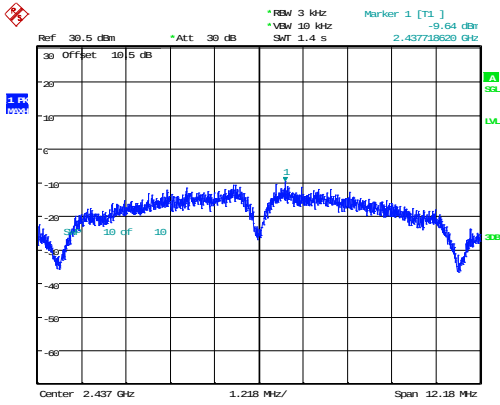
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Date: 14.AUG.2024 00:03:31

b_2412MHz_Chain 1 -11.26dBm/3kHz



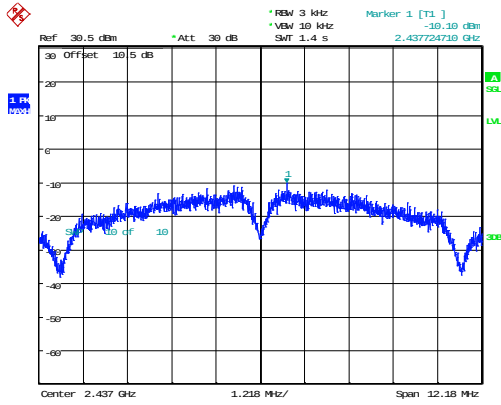
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Date: 14.AUG.2024 21:08:52

b_2437MHz_Chain 0 -9.64dBm/3kHz



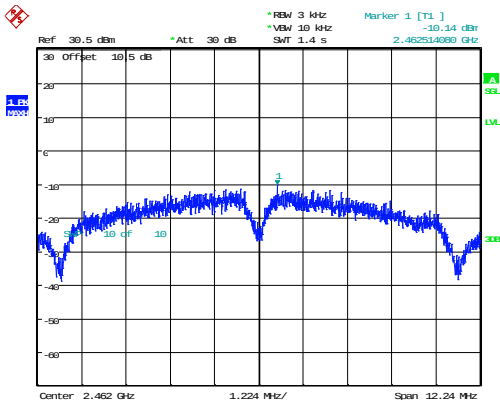
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Date: 14.AUG.2024 00:05:27

b_2437MHz_Chain 1 -10.10dBm/3kHz



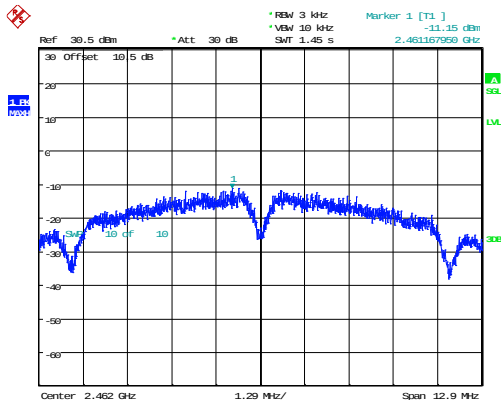
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Date: 14.AUG.2024 21:10:16

b_2462MHz_Chain 0 -10.14dBm/3kHz



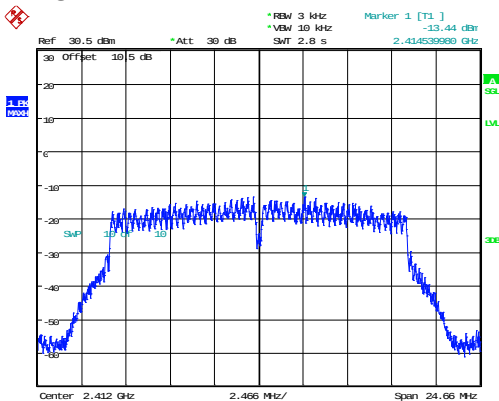
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Date: 14.AUG.2024 00:09:28

b_2462MHz_Chain 1 -11.15dBm/3kHz



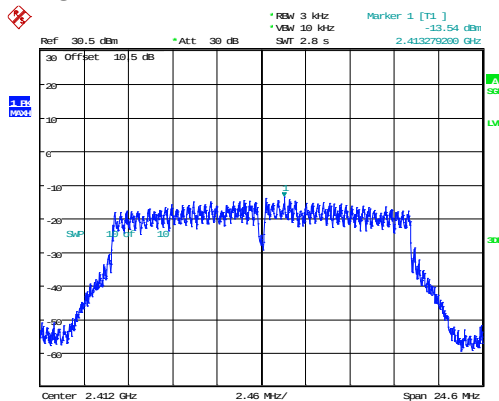
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Date: 14.AUG.2024 21:12:54

g_2412MHz_Chain 0 -13.44dBm/3kHz



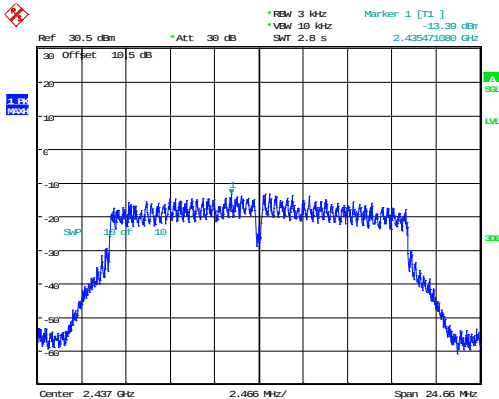
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g_2412MHz_Chain 1 -13.54dBm/3kHz



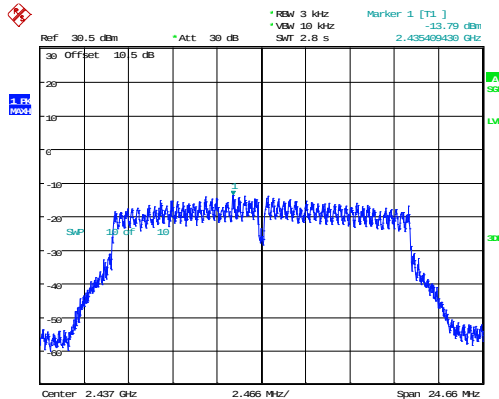
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Date: 14.AUG.2024 21:15:52

g_2437MHz_Chain 0 -13.39dBm/3kHz



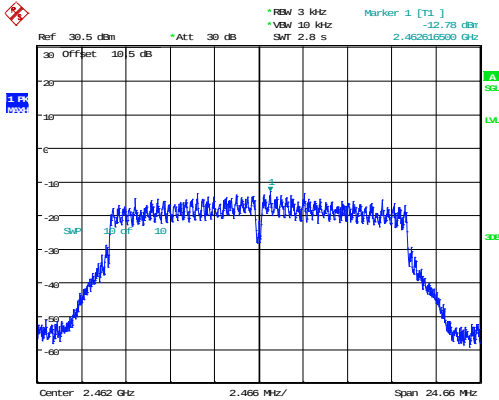
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g_2437MHz_Chain 1 -13.79dBm/3kHz



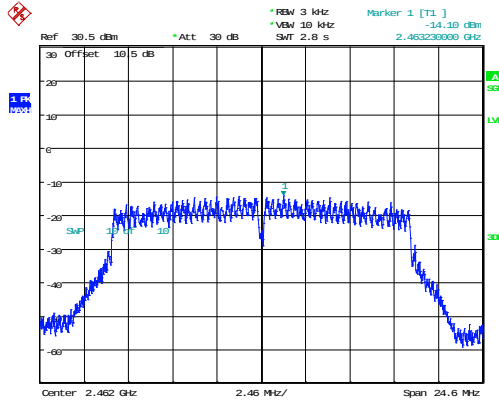
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Date: 14.AUG.2024 21:17:16

g_2462MHz_Chain 0 -12.78dBm/3kHz



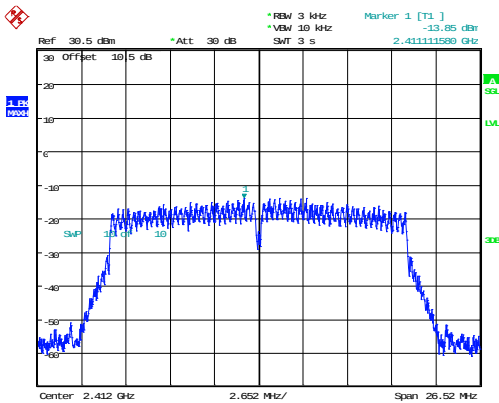
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g_2462MHz_Chain 1 -14.10dBm/3kHz



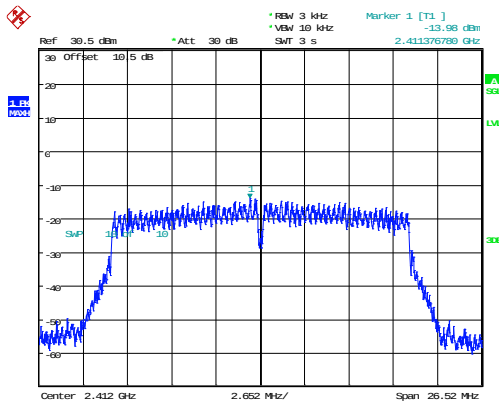
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Date: 14.AUG.2024 21:20:06

n20_2412MHz_Chain 0 -13.85dBm/3kHz



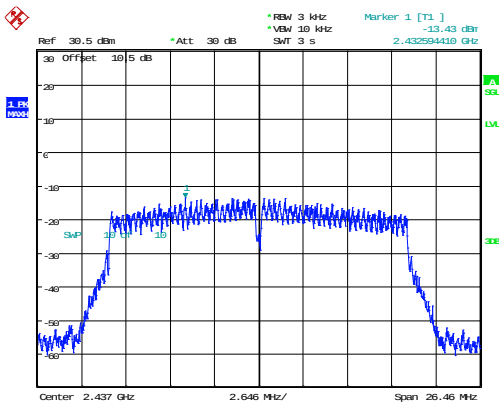
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Date: 14.AUG.2024 00:23:05

n20_2412MHz_Chain 1 -13.98dBm/3kHz



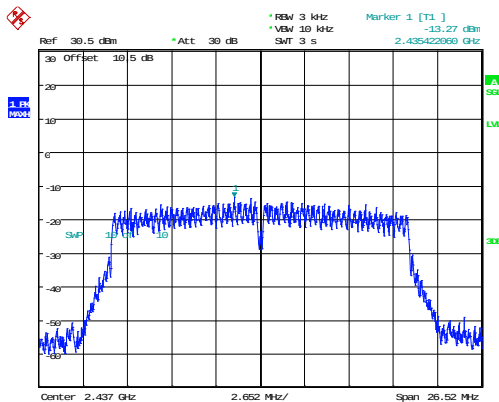
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:23:07

n20_2437MHz_Chain 0 -13.43dBm/3kHz



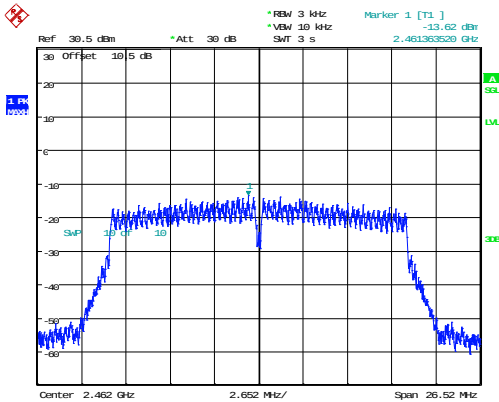
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Date: 14.AUG.2024 00:25:54

n20_2437MHz_Chain 1 -13.27dBm/3kHz



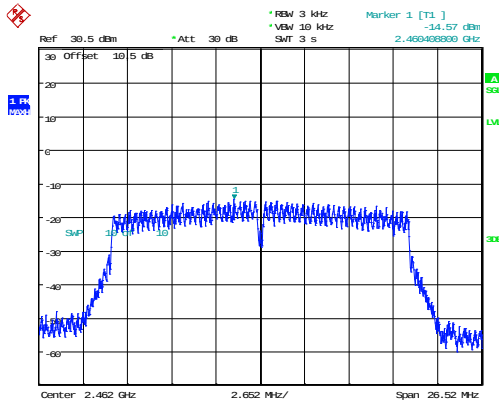
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:26:40

n20_2462MHz_Chain 0 -13.62dBm/3kHz



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:30:26

n20_2462MHz_Chain 1 -14.57dBm/3kHz



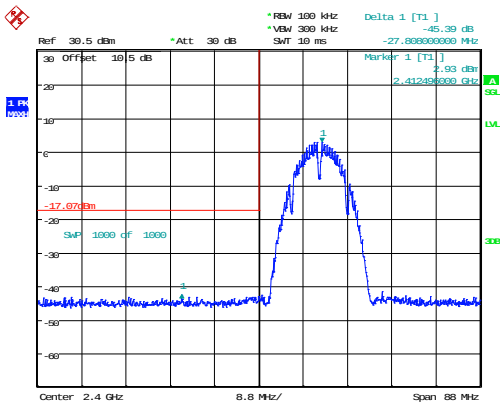
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:29:48

100 kHz Bandwidth of Frequency Band Edge**2.4G**

Mode	Value (dB)	Limit (dB)	Result
b_2412MHz_Chain 0	45.39	20	Pass
b_2412MHz_Chain 1	46.09	20	Pass
b_2462MHz_Chain 0	45.51	20	Pass
b_2462MHz_Chain 1	45.59	20	Pass
g_2412MHz_Chain 0	35.20	20	Pass
g_2412MHz_Chain 1	32.21	20	Pass
g_2462MHz_Chain 0	40.49	20	Pass
g_2462MHz_Chain 1	39.52	20	Pass
n20_2412MHz_Chain 0	31.80	20	Pass
n20_2412MHz_Chain 1	31.29	20	Pass
n20_2462MHz_Chain 0	39.29	20	Pass
n20_2462MHz_Chain 1	40.36	20	Pass

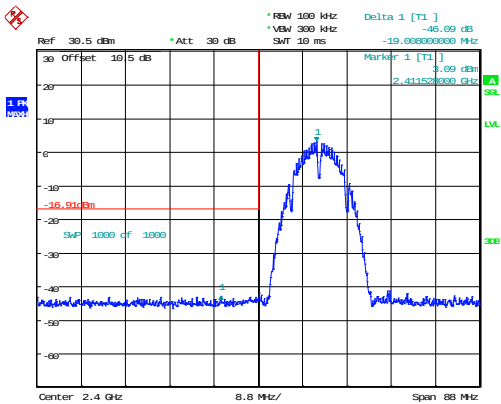
2.4G

b_2412MHz_Chain 0 45.39dB



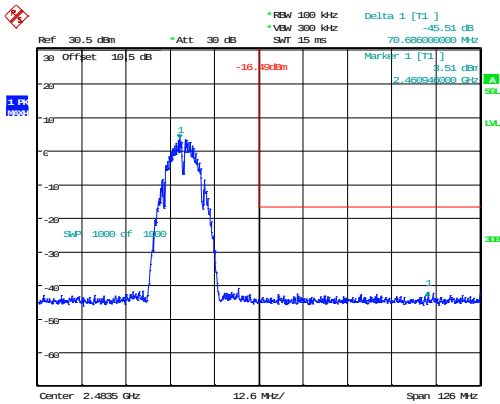
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:01:43

b_2412MHz_Chain 1 46.09dB



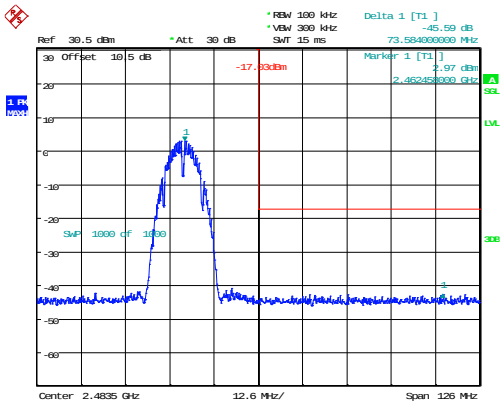
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:07:51

b_2462MHz_Chain 0 45.51dB



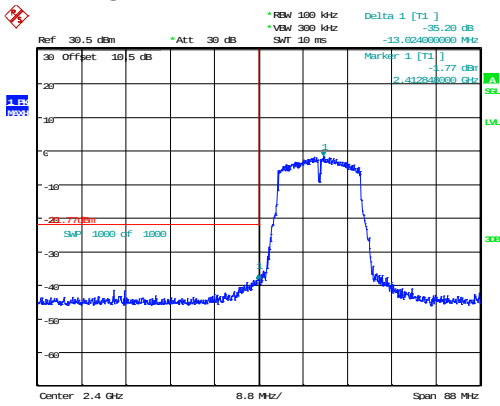
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:07:29

b_2462MHz_Chain 1 45.59dB



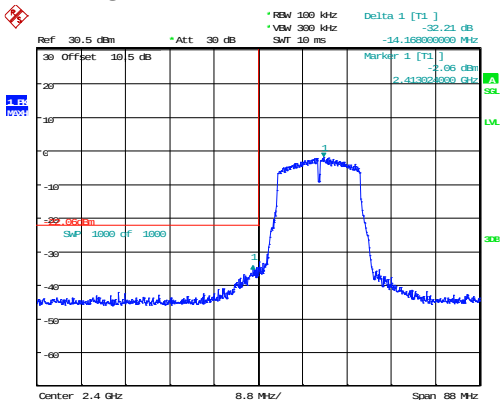
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:11:46

g_2412MHz_Chain 0 35.20dB



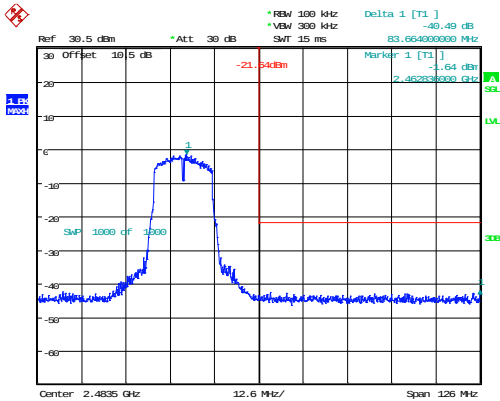
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:11:20

g_2412MHz_Chain 1 32.21dB

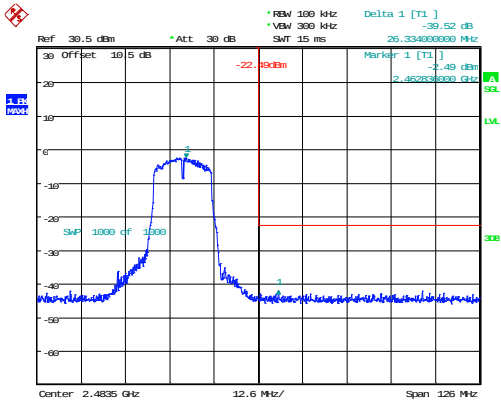


ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:14:37

g_2462MHz_Chain 0 40.49dB



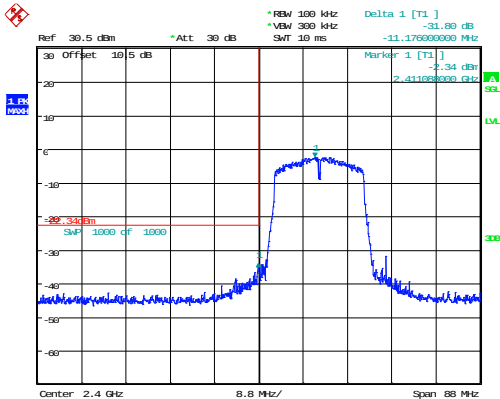
g_2462MHz_Chain 1 39.52dB



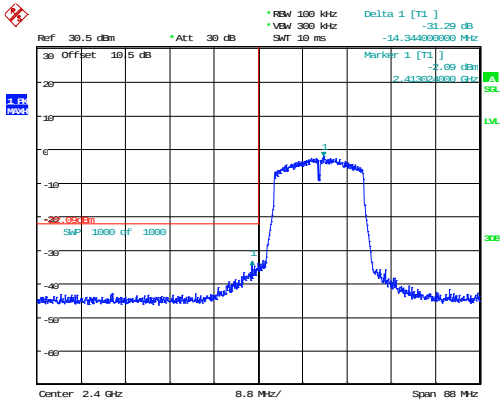
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:17:07

ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:18:44

n20_2412MHz_Chain 0 31.80dB



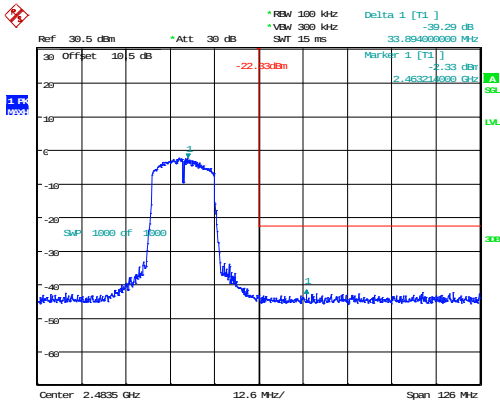
n20_2412MHz_Chain 1 31.29dB



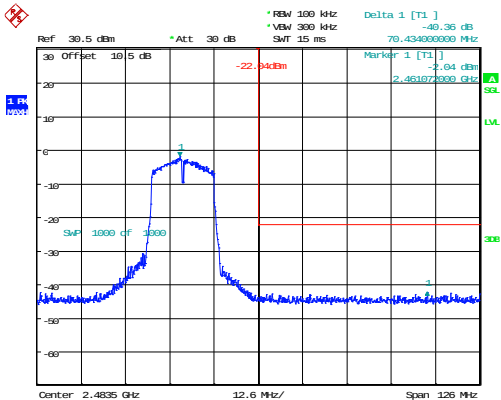
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:21:01

ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:21:50

n20_2462MHz_Chain 0 39.29dB



n20_2462MHz_Chain 1 40.36dB



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 00:27:38

ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 21:28:24

Duty Cycle

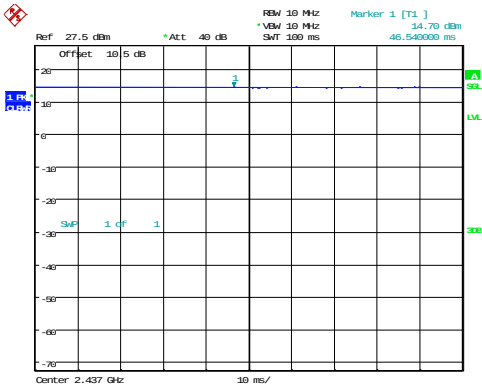
2.4G

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
b_2437MHz_Chain 0	100	100	100	0	NA	0.010
g_2437MHz_Chain 0	100	100	100	0	NA	0.010
n20_2437MHz_Chain 0	100	100	100	0	NA	0.010

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

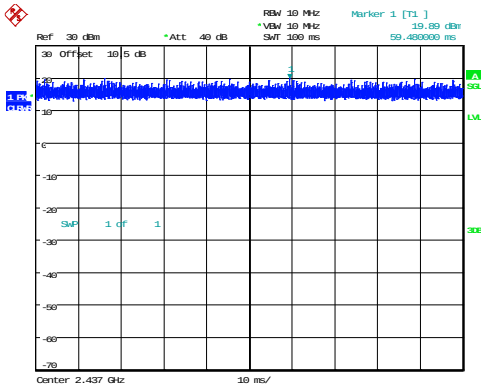
2.4G

b_2437MHz_Chain 0
100ms,100ms



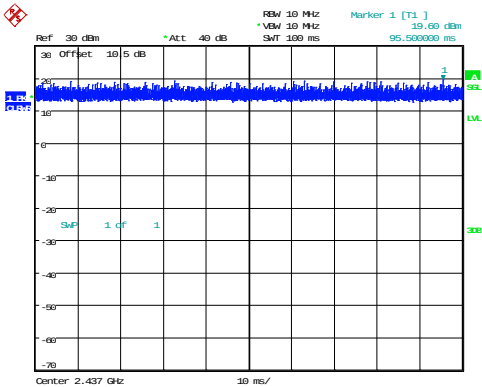
ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 20:58:21

g_2437MHz_Chain 0
100ms,100ms



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 20:58:52

n20_2437MHz_Chain 0
100ms,100ms



ProjectNo.:2403V87404E-RF Tester:Chin Qin
Date: 14.AUG.2024 20:59:32