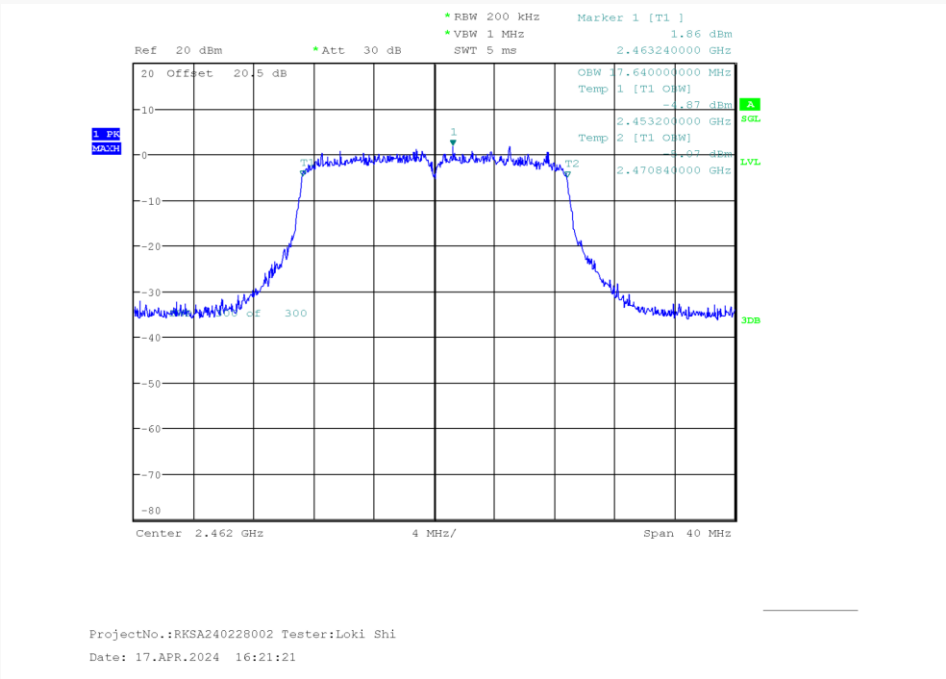
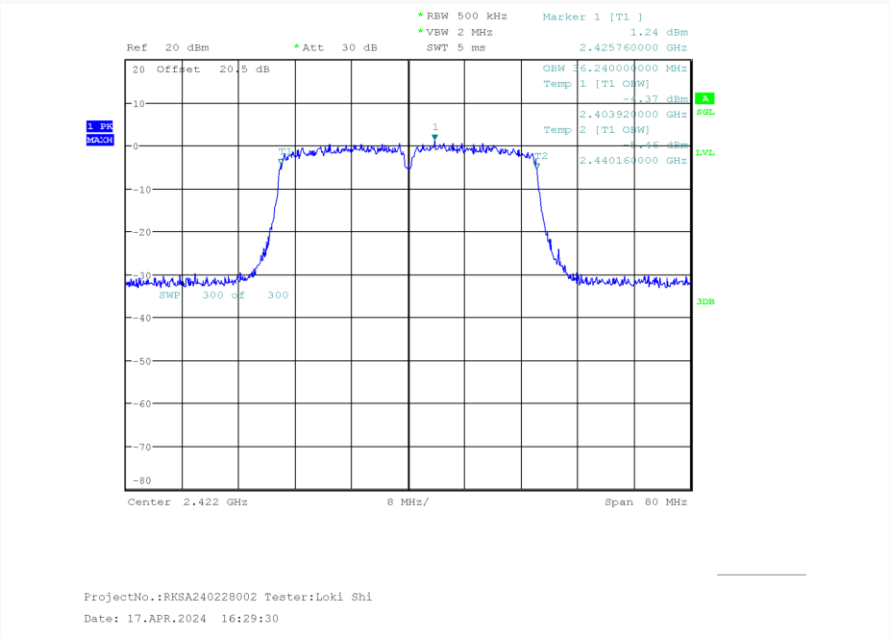


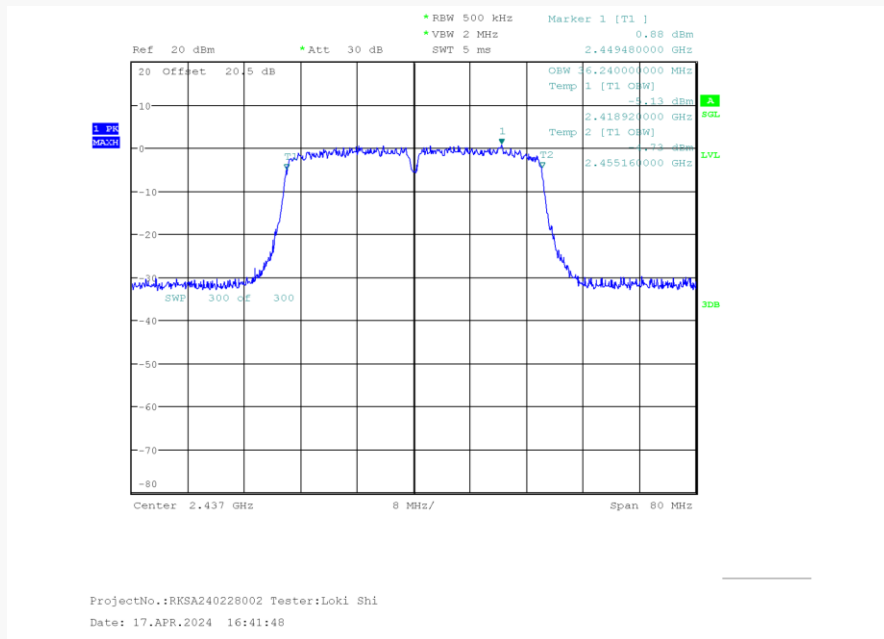
802.11n-HT20 Mode High Channel



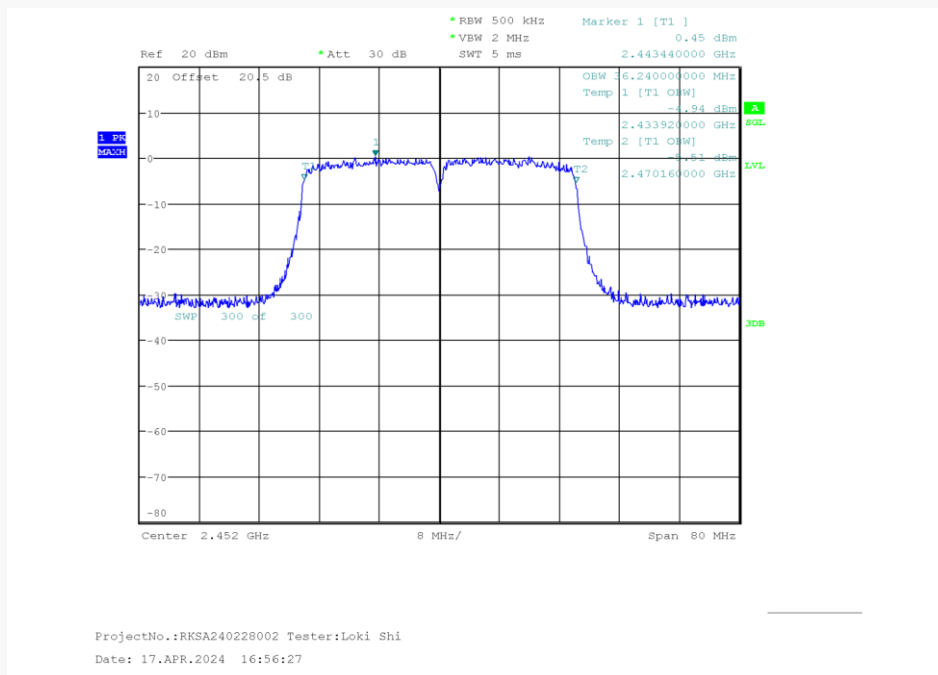
802.11n-HT40 Mode Low Channel



802.11n-HT40 Mode Middle Channel

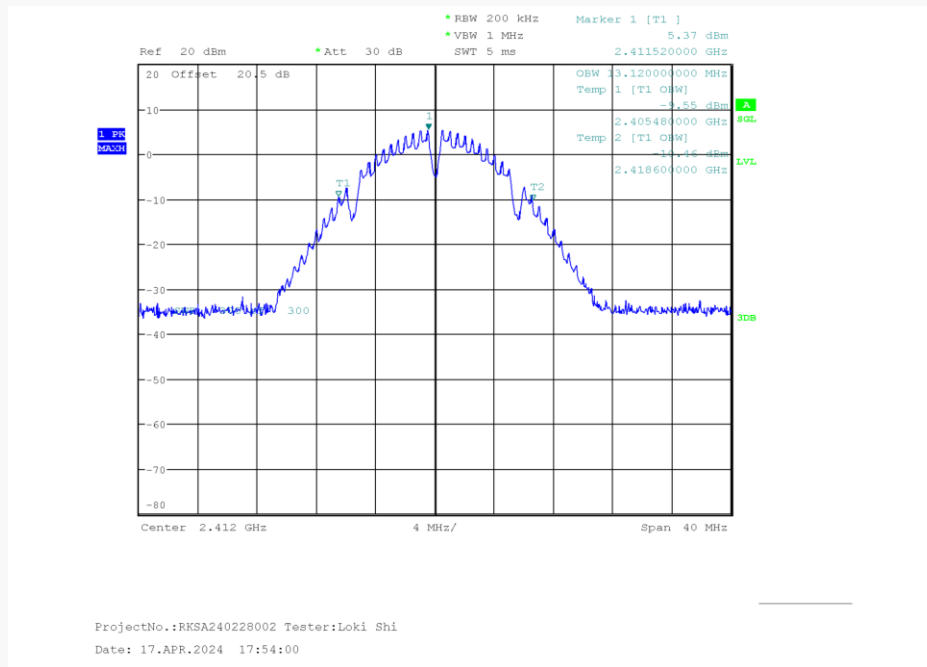


802.11n-HT40 Mode High Channel

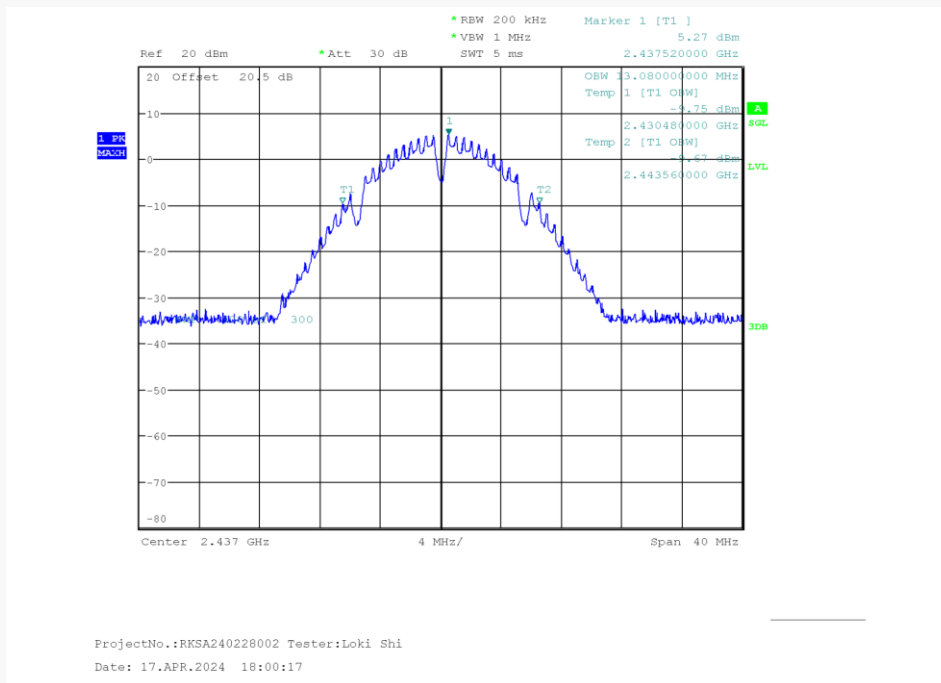


For Chain 1:

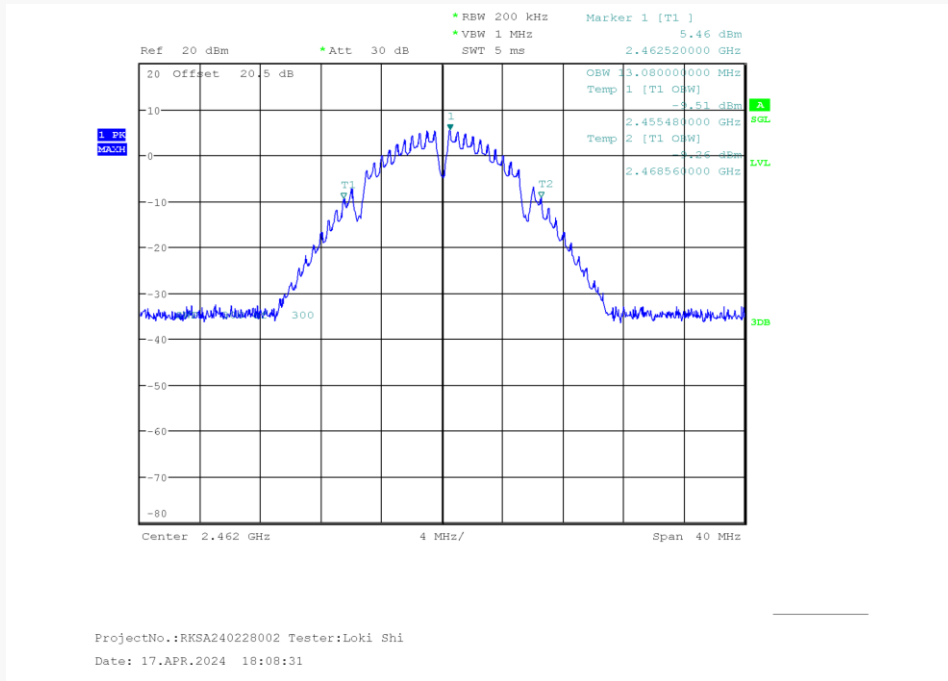
802.11b Mode Low Channel



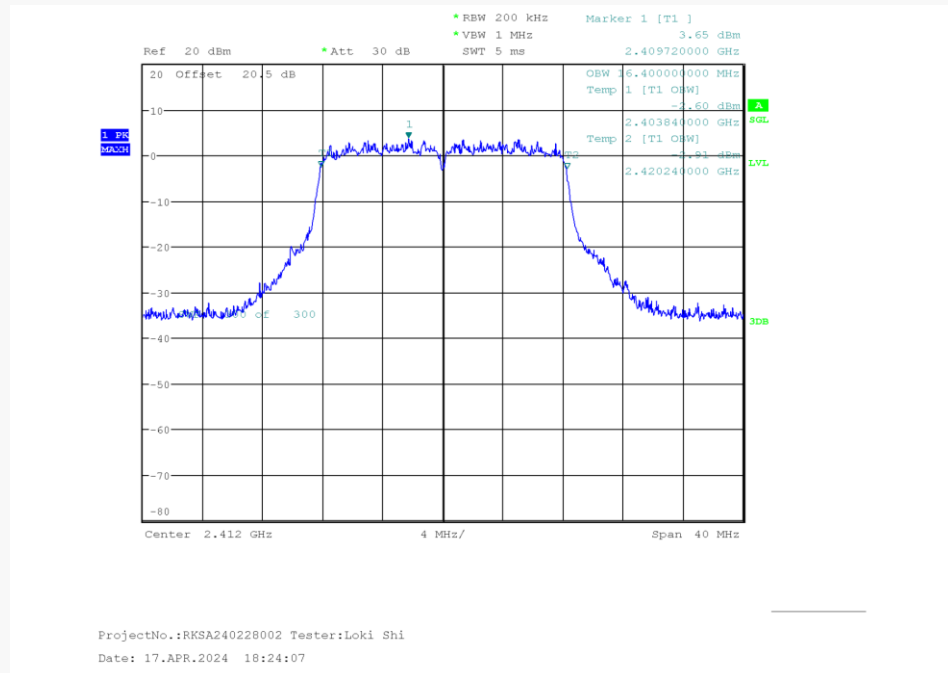
802.11b Mode Middle Channel



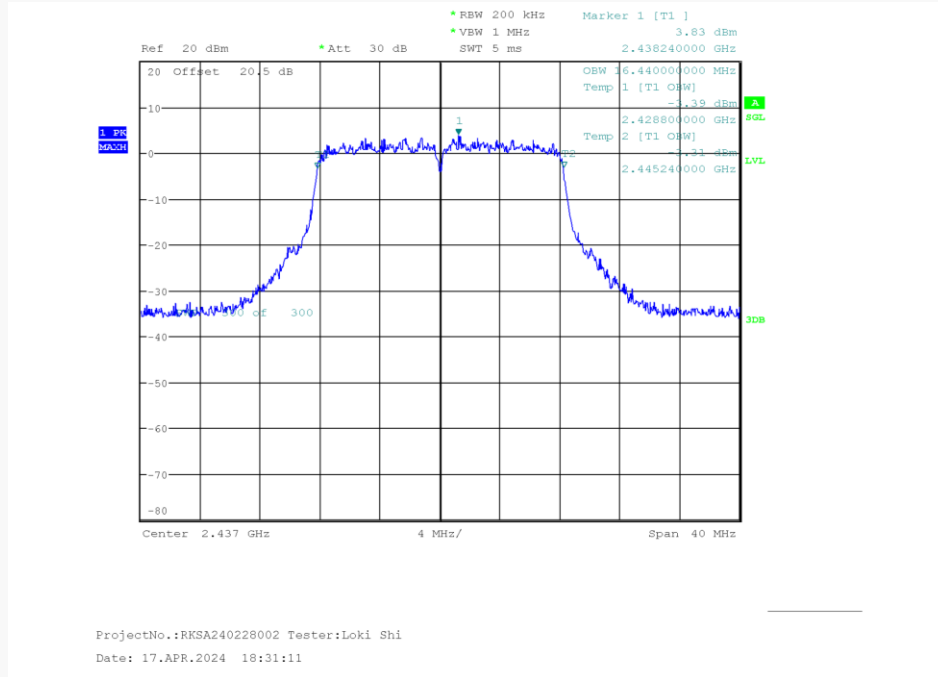
802.11b Mode High Channel



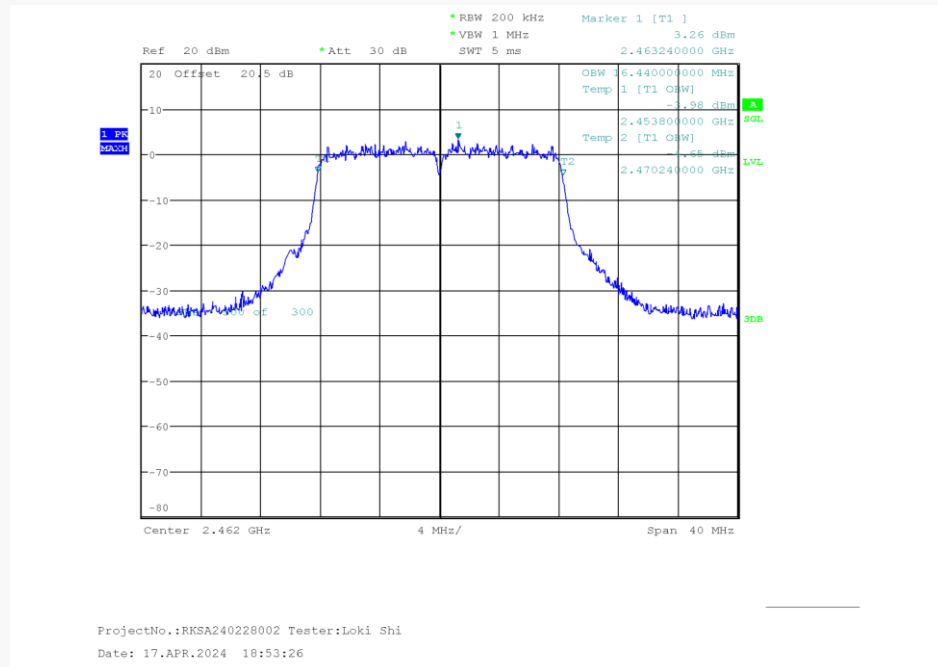
802.11g Mode Low Channel



802.11g Mode Middle Channel



802.11g Mode High Channel

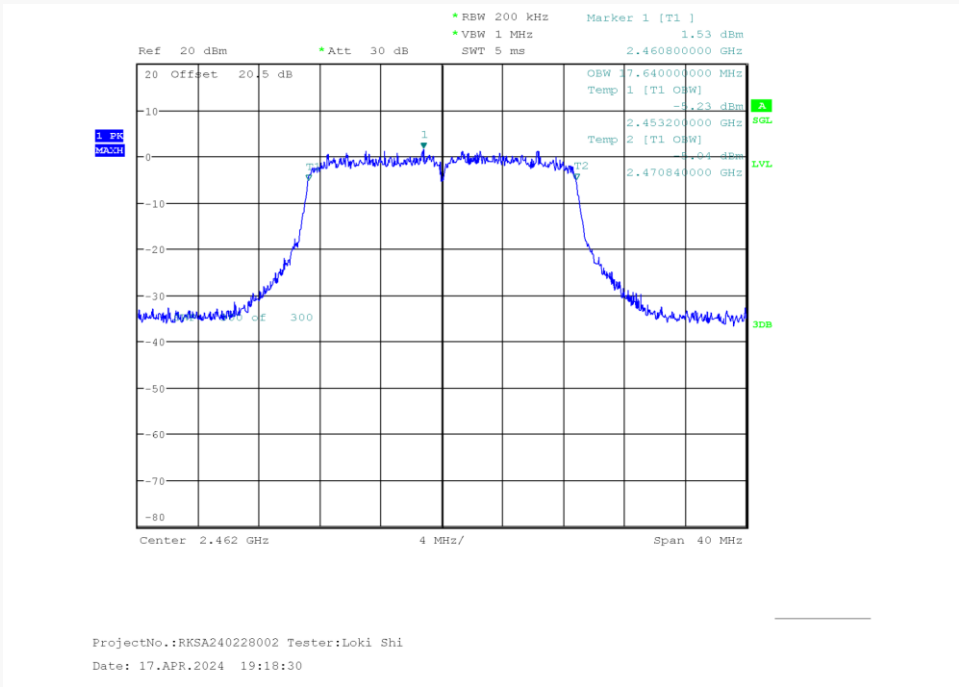


[illegible]

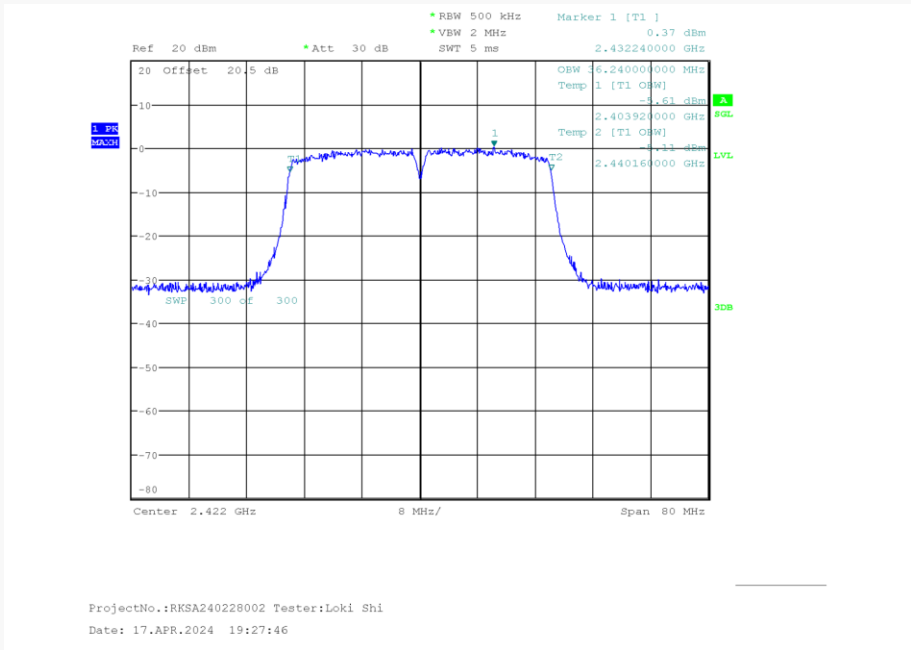
* RBW 200 kHz
 * VBW 1 MHz
 SWT 5 ms
 Marker 1 [T1]
 3.38 dBm
 2.438320000 GHz

20 Offset 20.5 dB
 * Att 30 dB
 1 PR
 MAGN
 1
 3.38 dBm
 2.438320000 GHz
 2.428200000 GHz
 2.445840000 GHz
 30 dB
 Center 2.437 GHz
 4 MHz/
 Span 40 MHz

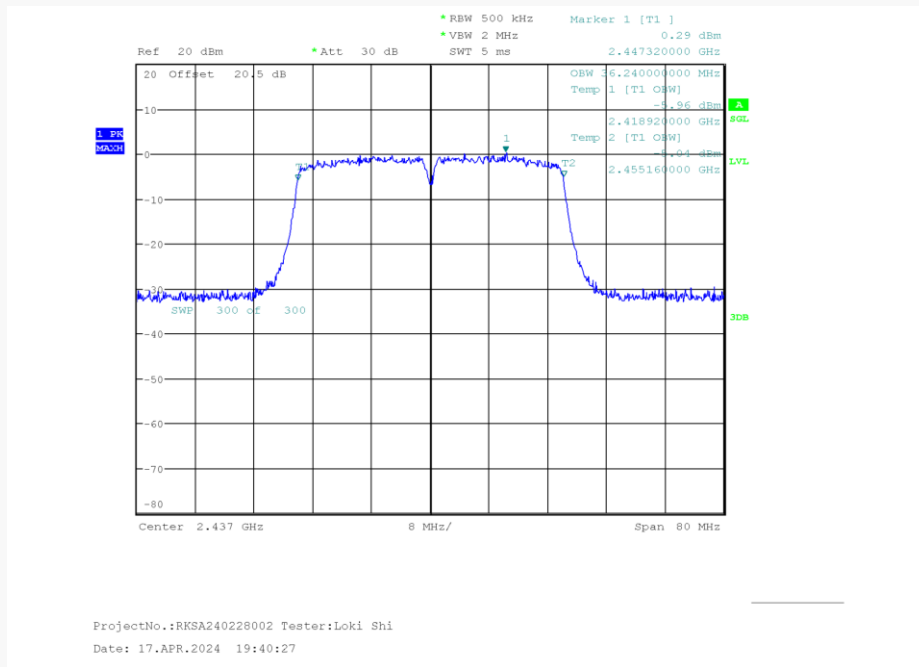
802.11n-HT20 Mode High Channel



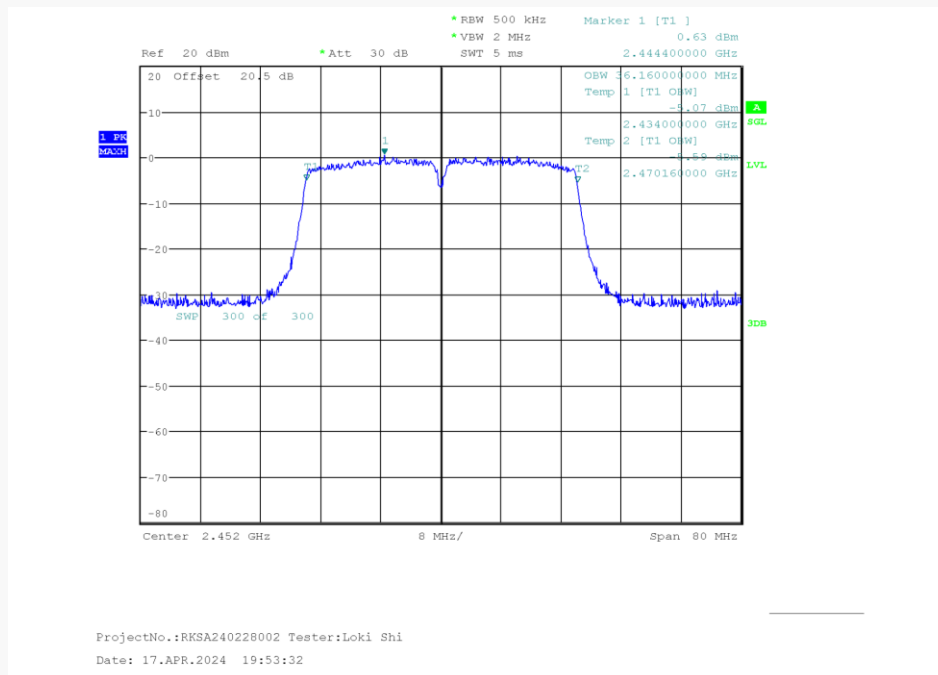
802.11n-HT40 Mode Low Channel



802.11n-HT40 Mode Middle Channel



802.11n-HT40 Mode High Channel



POWER SPECTRAL DENSITY**Test Result:** Compliant.*EUT operation mode: Transmitting*

Test Mode	Channel (MHz)	Power Spectral Density (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
		Chain 0	Chain 1	Total		
802.11b	2412	-6.69	-5.62	/	≤8.00	PASS
	2437	-8.76	-5.6	/	≤8.00	PASS
	2462	-8.76	-5.11	/	≤8.00	PASS
802.11g	2412	-12.72	-12.67	/	≤8.00	PASS
	2437	-12.61	-12.58	/	≤8.00	PASS
	2462	-14.55	-14.28	/	≤8.00	PASS
802.11n-HT20	2412	-12.37	-12.23	-9.29	≤5.00	PASS
	2437	-12.56	-12.32	-9.43	≤5.00	PASS
	2462	-13.9	-14.56	-11.21	≤5.00	PASS
802.11n-HT40	2422	-18	-18.07	-15.02	≤5.00	PASS
	2437	-18.31	-18.22	-15.25	≤5.00	PASS
	2452	-18.17	-18.1	-15.12	≤5.00	PASS

Note:

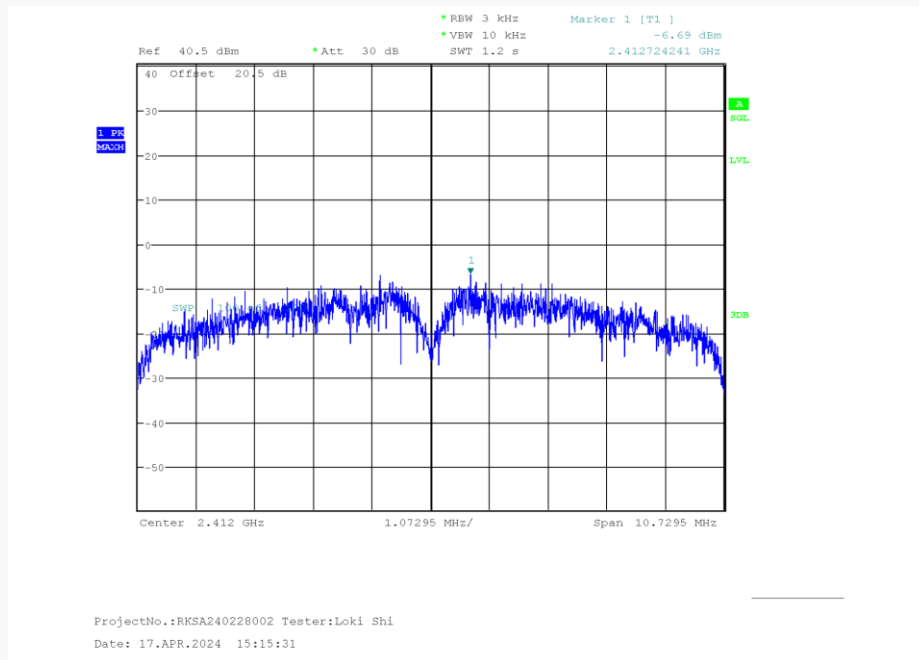
The maximum antenna gain is 6 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \cdot \log(\text{NANT/NSS})$ dB.

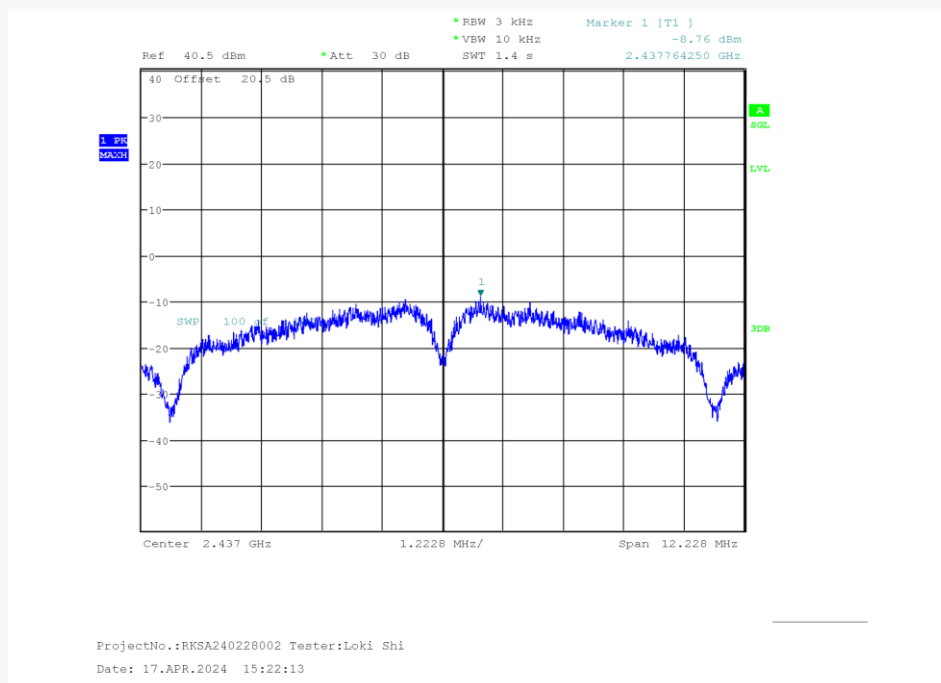
So: Directional gain = GANT + Array Gain = $6 + 10 \cdot \log(2/1) = 9.00\text{dBi}$ > 6dBi, so power spectral density limit was reduced 3dB

For Chain 0:

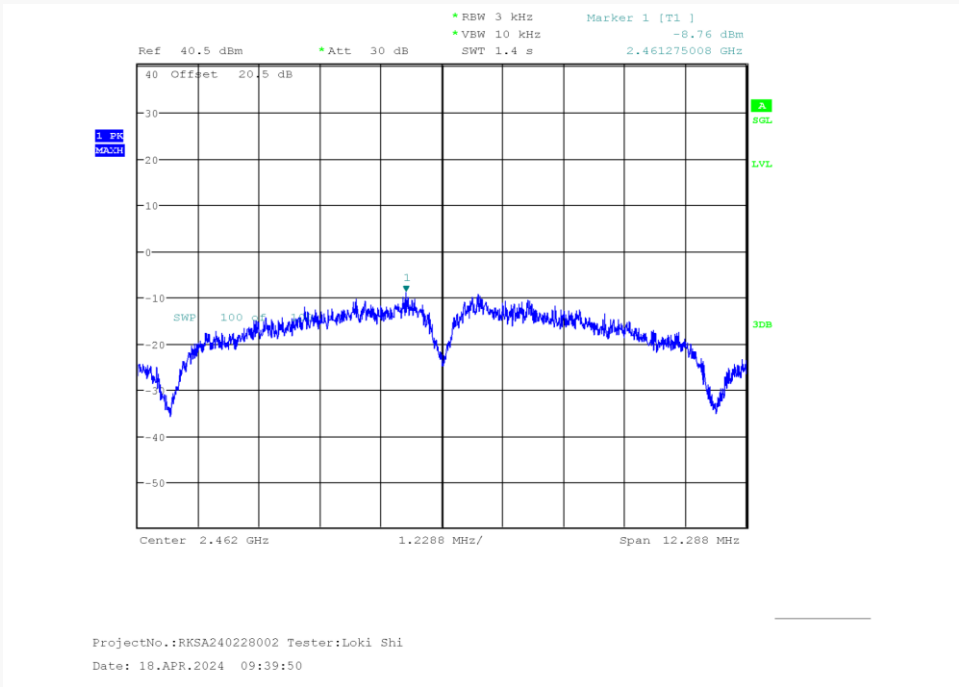
802.11b Low Channel



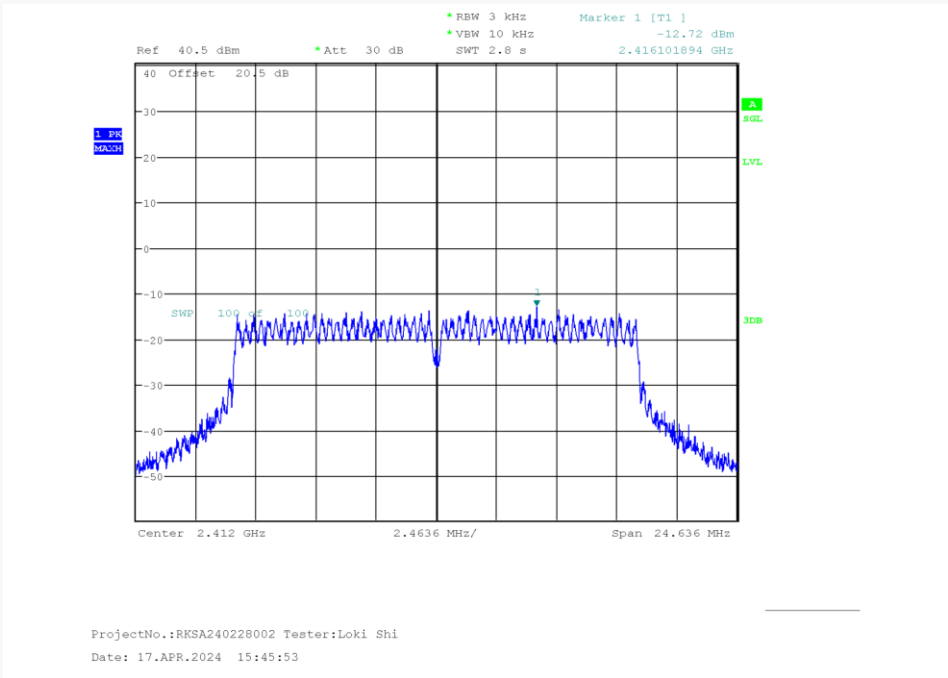
802.11b Middle Channel



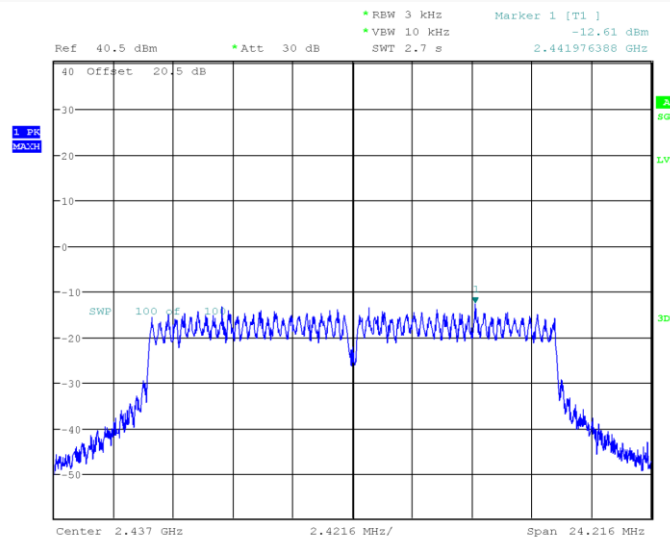
802.11b High Channel



802.11g Low Channel

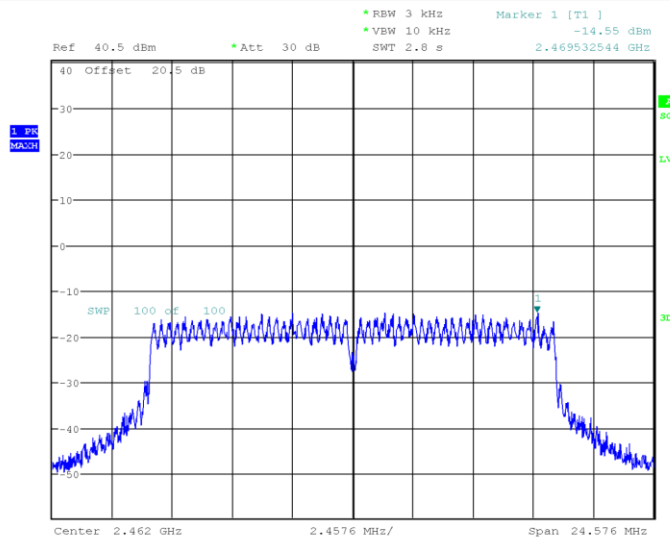


802.11g Middle Channel



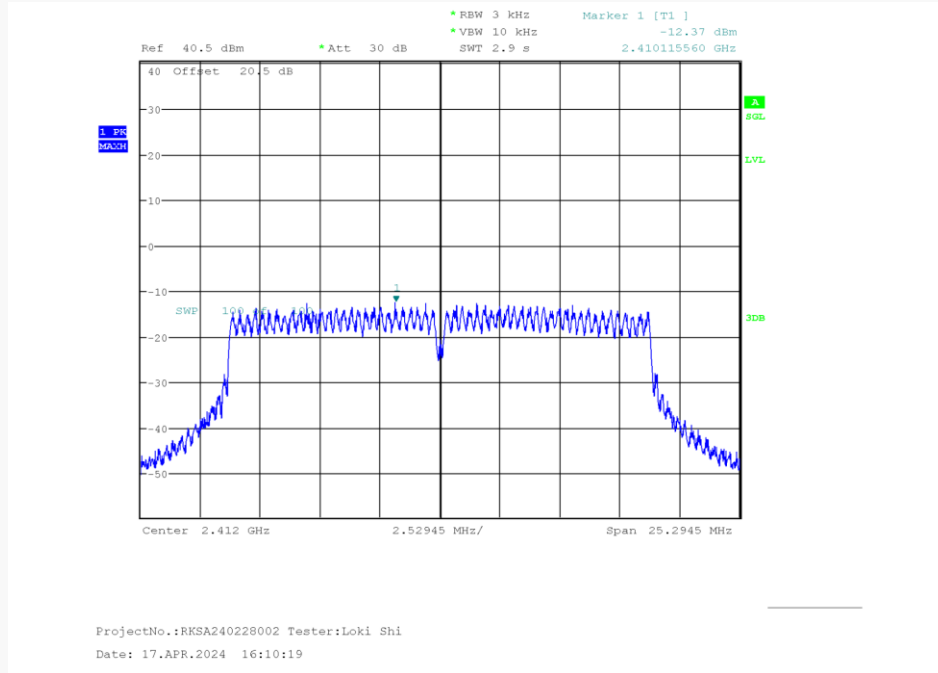
ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 15:52:33

802.11g High Channel

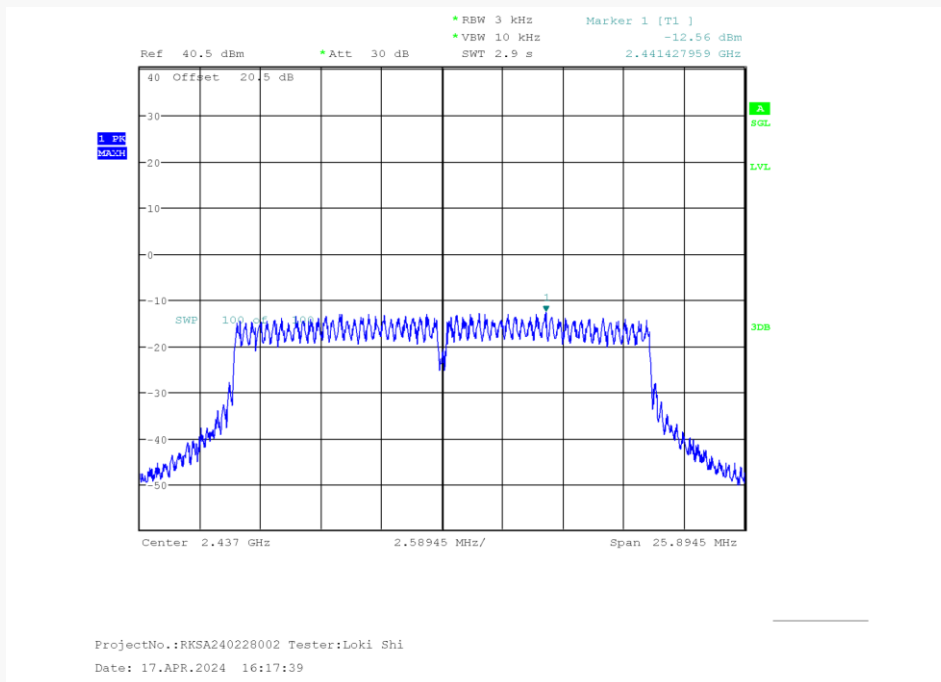


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Date: 17.APR.2024 16:01:22

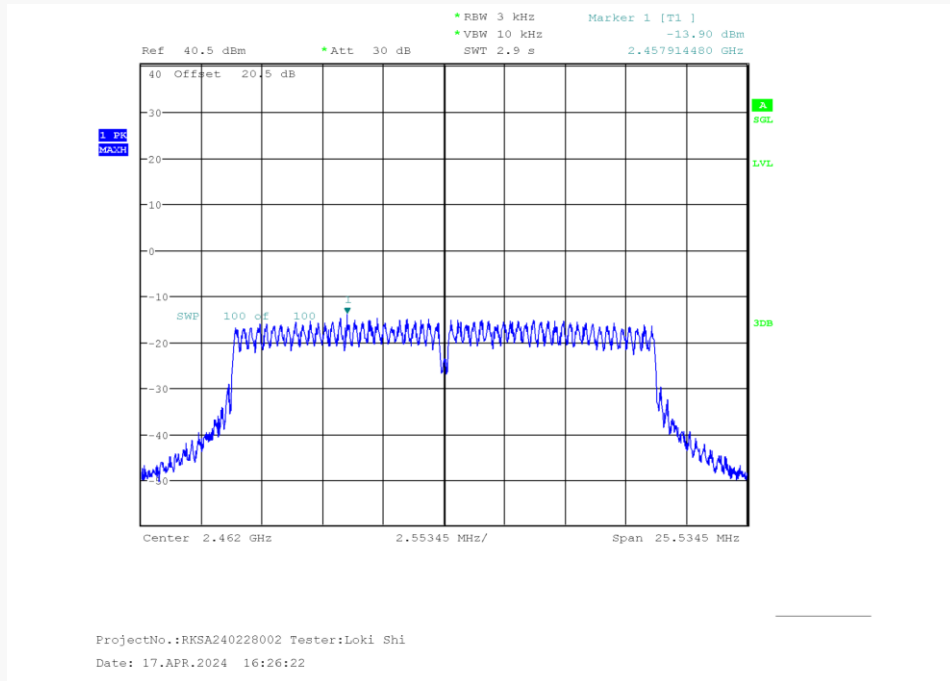
802.11n-HT20 Low Channel



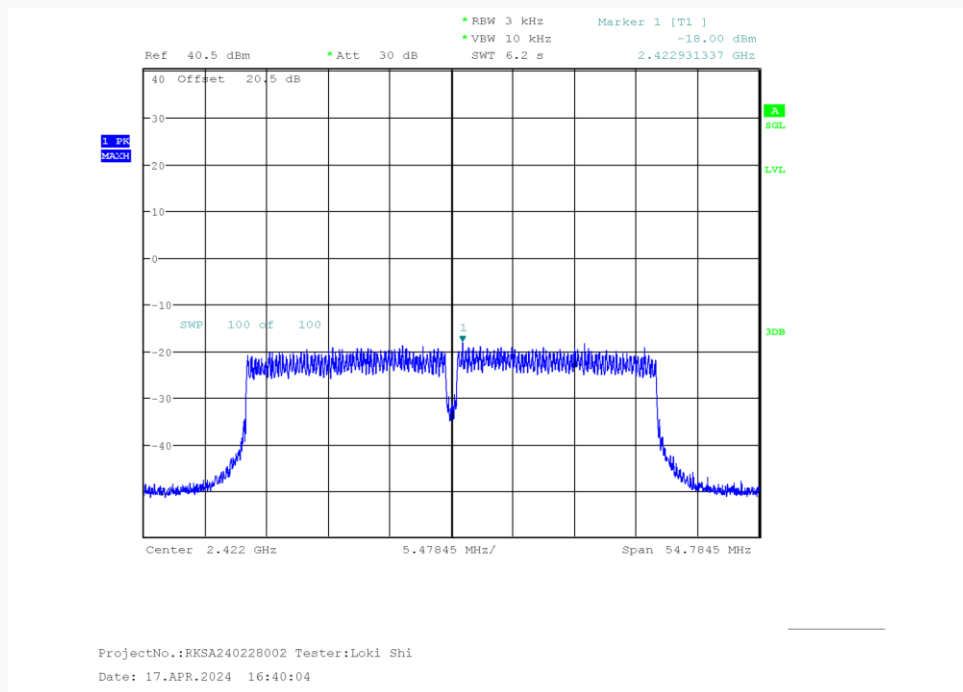
802.11n-HT20 Middle Channel



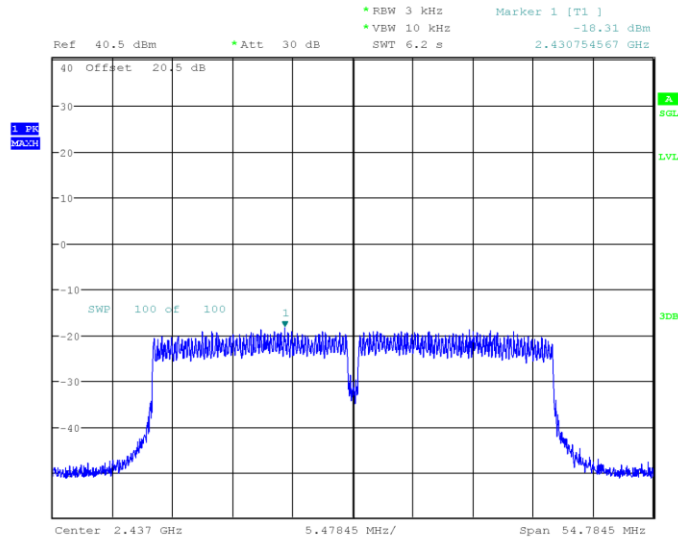
802.11n-HT20 High Channel



802.11n-HT40 Low Channel

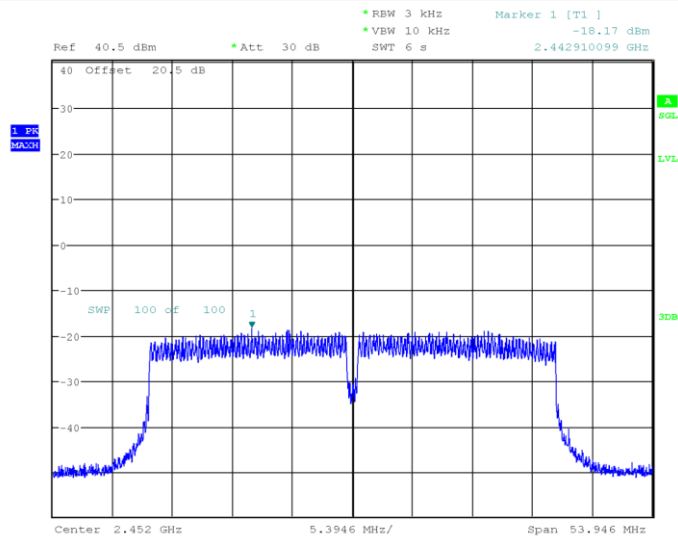


802.11n-HT40 Middle Channel



ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 16:52:21

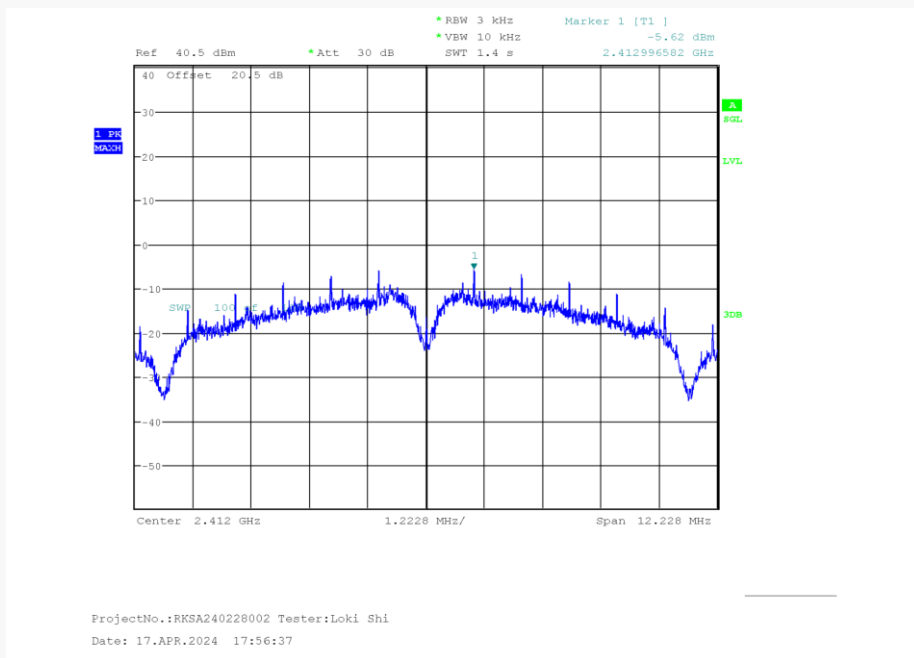
802.11n-HT40 High Channel



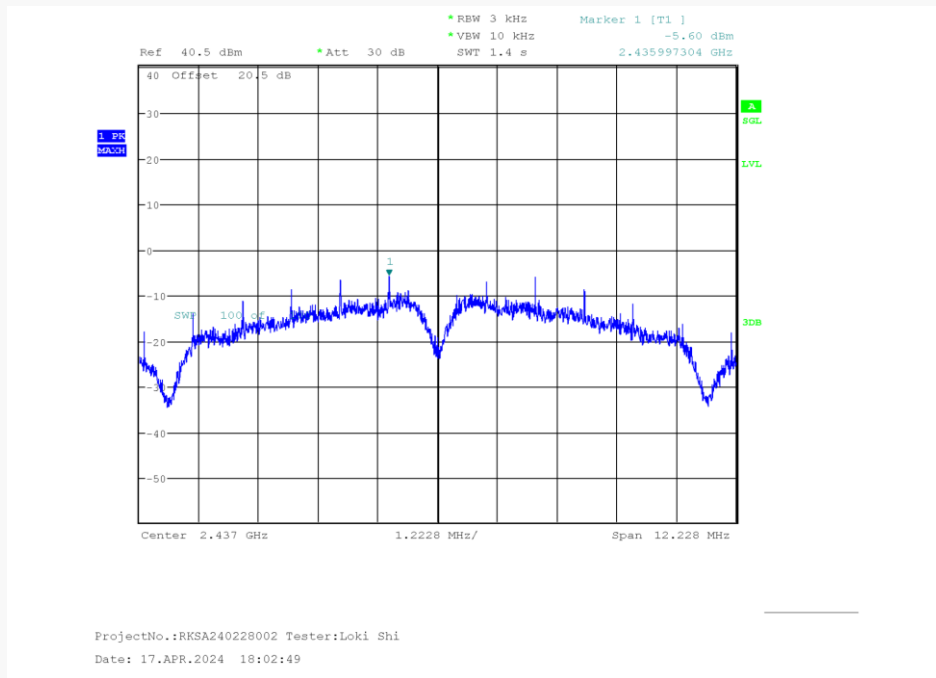
ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 17:06:50

For Chain 1:

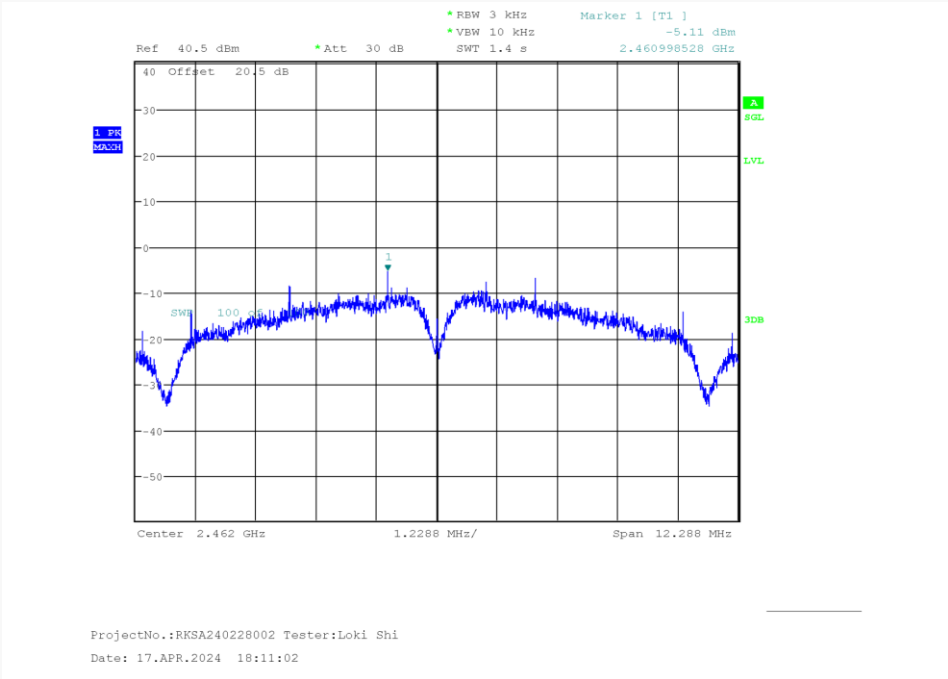
802.11b Low Channel



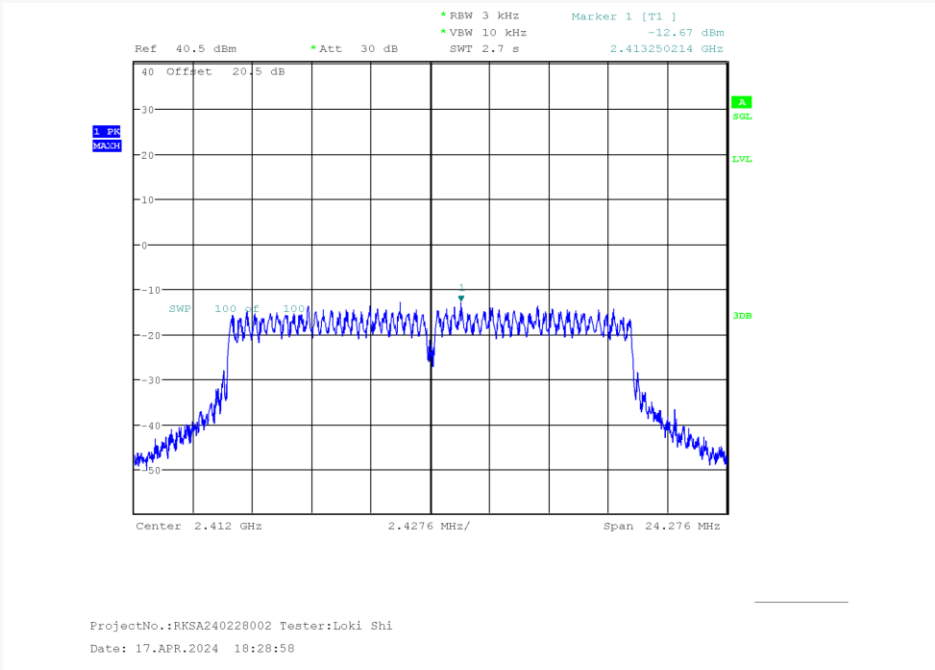
802.11b Middle Channel



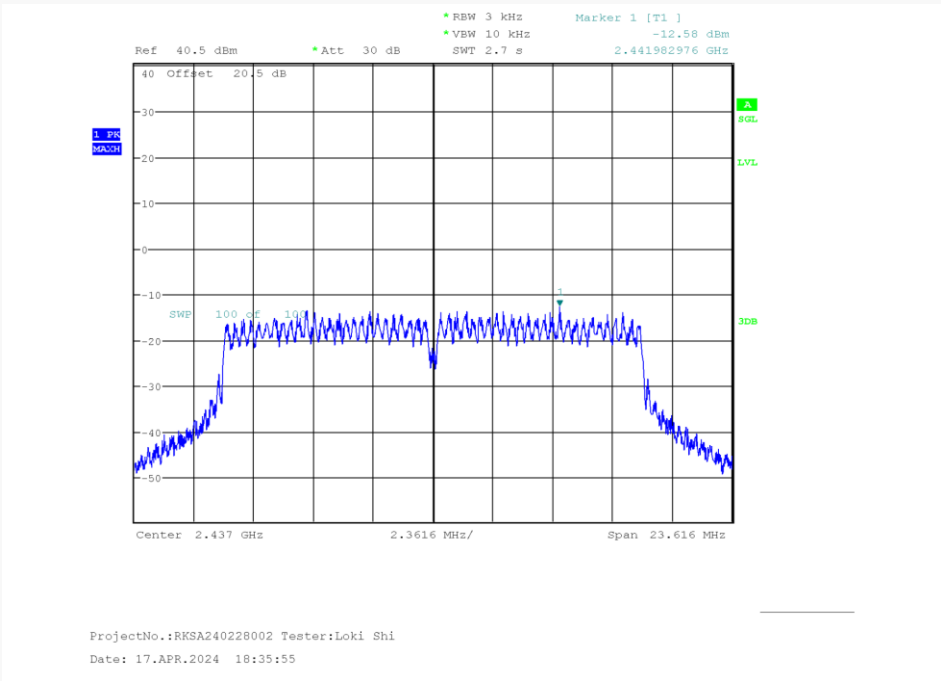
802.11b High Channel



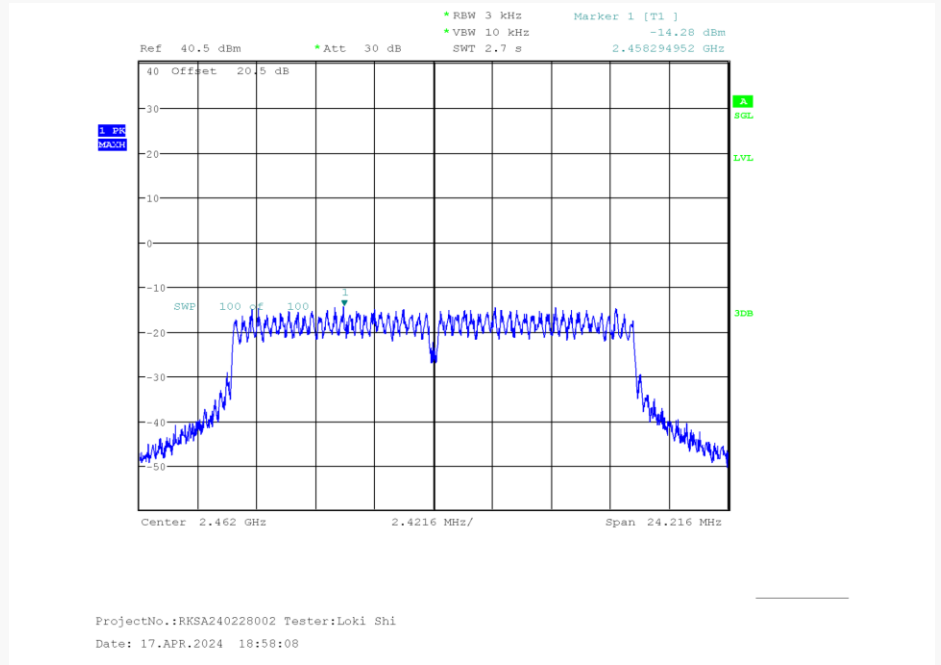
802.11g Low Channel



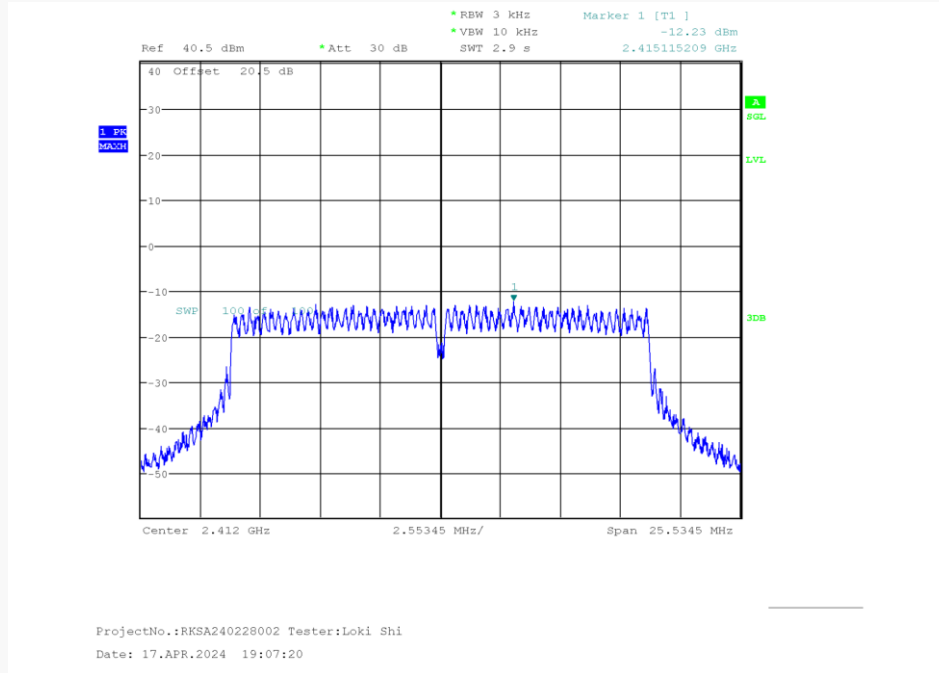
802.11g Middle Channel



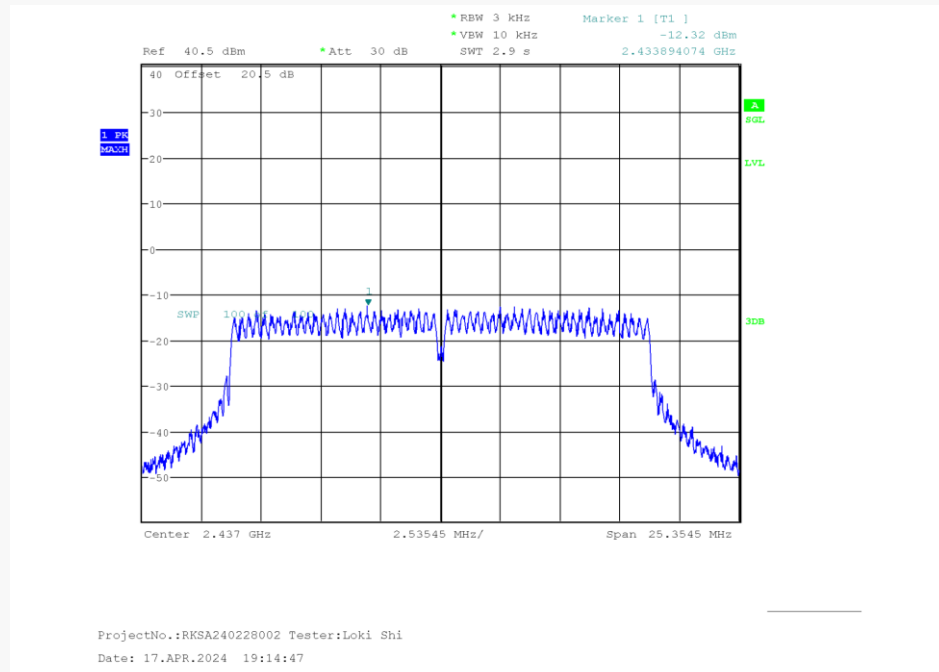
802.11g High Channel



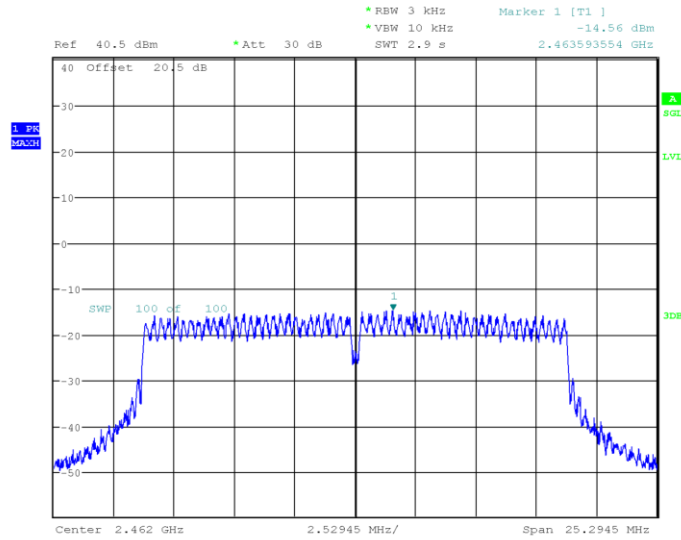
802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel

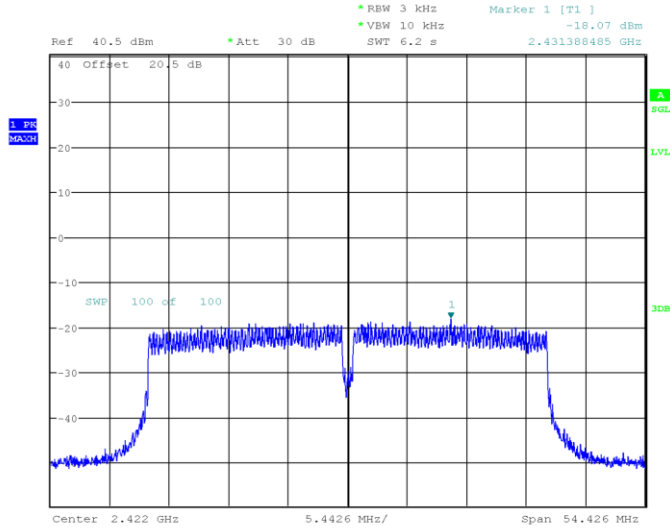


802.11n-HT20 High Channel



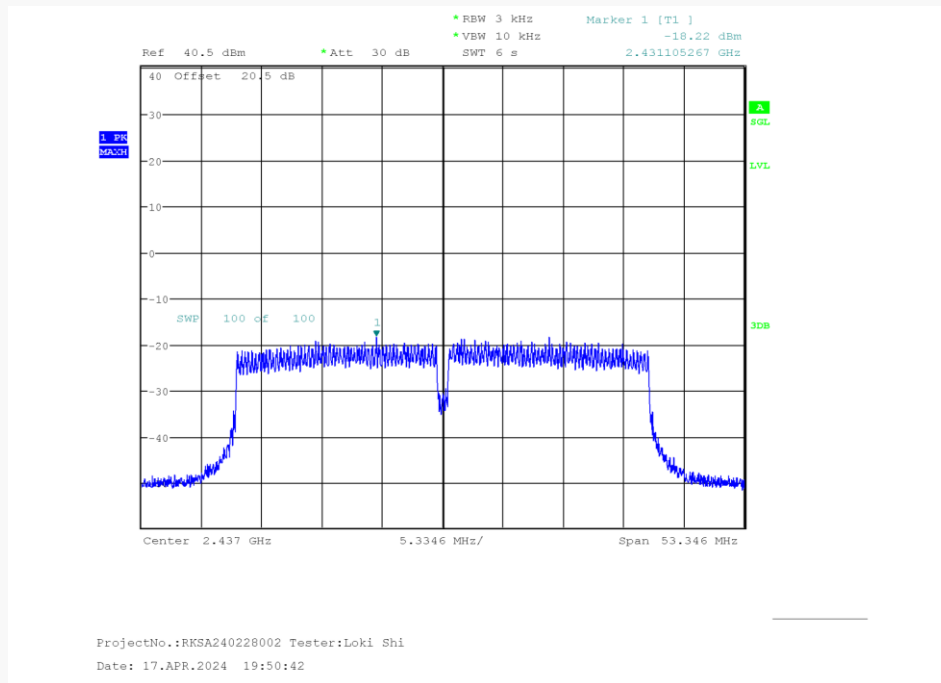
ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 19:23:32

802.11n-HT40 Low Channel

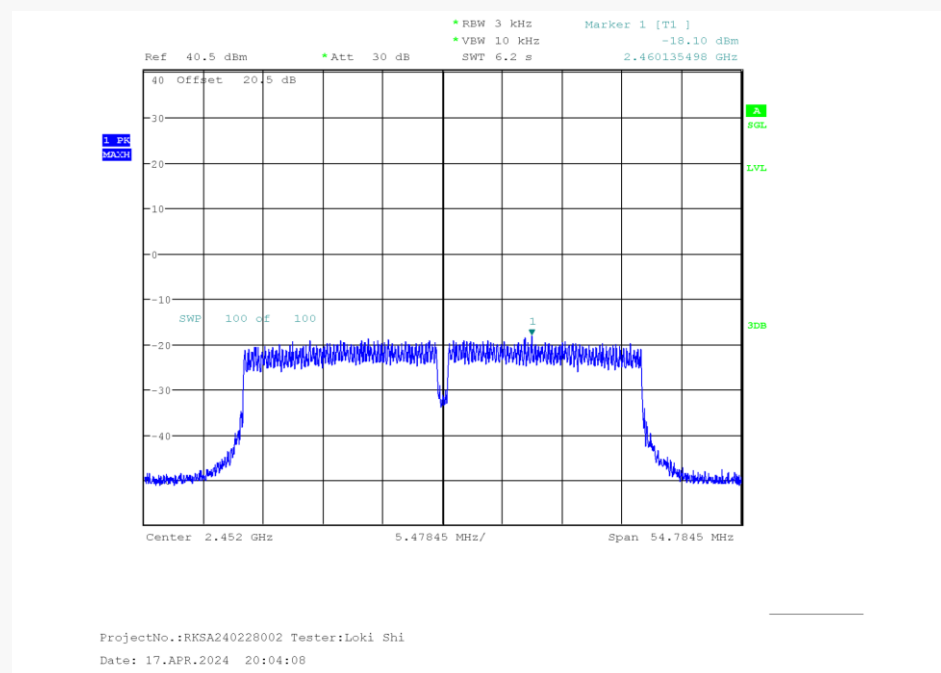


ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 19:38:35

802.11n-HT40 Middle Channel



802.11n-HT40 High Channel



TRANSMITTER OUTPUT POWER MEASUREMENT

Test Mode	Channel (MHz)	Max Conducted Peak Output Power (dBm)			Limit (dBm)	Verdict
		Chain 0	Chain 1	Total		
802.11b	2412	27.92	27.87	/	≤30.00	PASS
	2437	27.02	27.07	/	≤30.00	PASS
	2462	27.37	27.23	/	≤30.00	PASS
802.11g	2412	27.82	27.94	/	≤30.00	PASS
	2437	27.90	28.03	/	≤30.00	PASS
	2462	27.09	27.10	/	≤30.00	PASS
802.11n-HT20	2412	25.02	24.97	28.00	≤30.00	PASS
	2437	24.96	24.97	27.97	≤30.00	PASS
	2462	23.36	23.33	26.36	≤30.00	PASS
802.11n-HT40	2422	21.84	21.65	24.76	≤30.00	PASS
	2437	21.87	21.50	24.70	≤30.00	PASS
	2452	21.78	21.63	24.71	≤30.00	PASS

Note:

The maximum antenna gain is 6dBi, 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 $N_{ANT} \leq 4$;

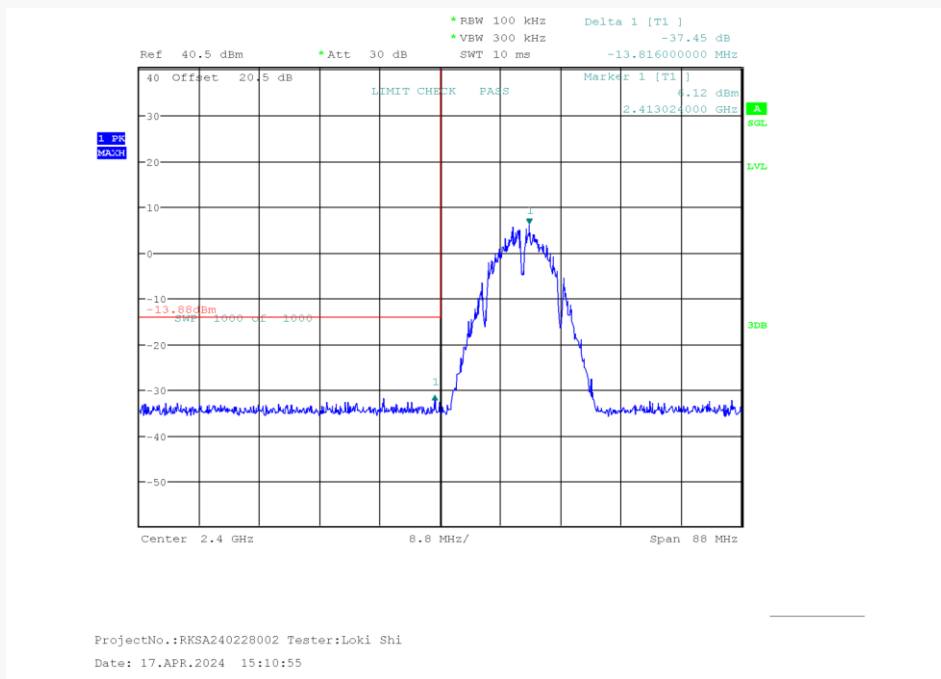
So: Directional gain = $G_{ANT} + \text{Array Gain} = 6\text{dBi}$, no RF out power limit was reduced.

OUT OF BAND EMISSIONS*EUT operation mode: Transmitting*

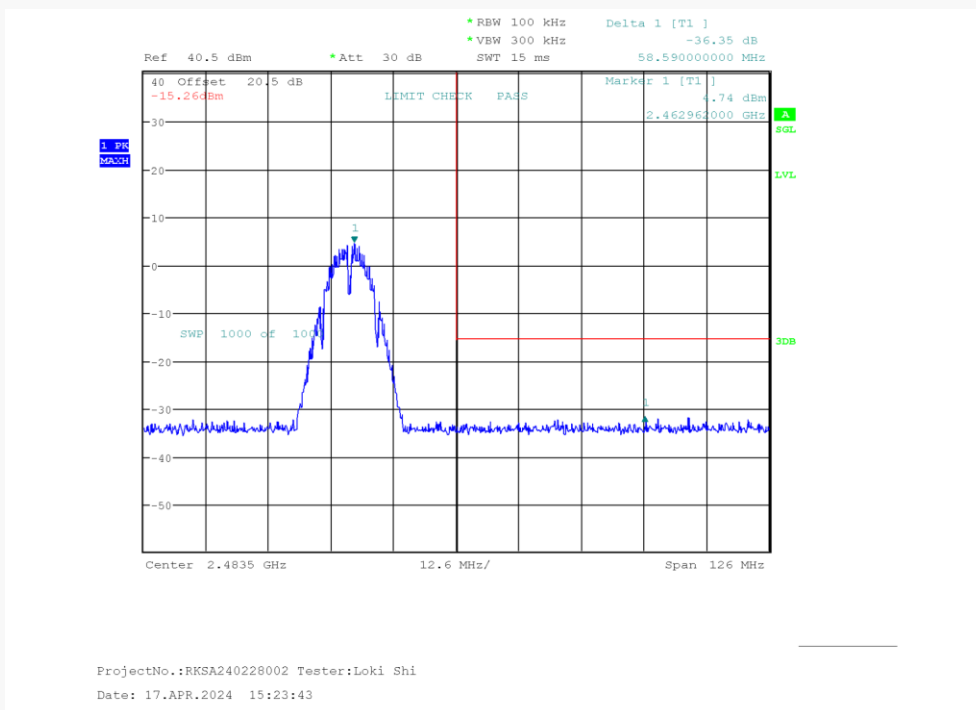
Mode	Value (dB)	Limit (dB)	Result
b_2412MHz_Chain 0	37.45	20.00	Pass
b_2412MHz_Chain 1	36.17	20.00	Pass
b_2462MHz_Chain 0	36.35	20.00	Pass
b_2462MHz_Chain 1	37.14	20.00	Pass
g_2412MHz_Chain 0	33.28	20.00	Pass
g_2412MHz_Chain 1	33.66	20.00	Pass
g_2462MHz_Chain 0	33.69	20.00	Pass
g_2462MHz_Chain 1	33.33	20.00	Pass
n20_2412MHz_Chain 0	32.66	20.00	Pass
n20_2412MHz_Chain 1	33.09	20.00	Pass
n20_2462MHz_Chain 0	32.77	20.00	Pass
n20_2462MHz_Chain 1	31.89	20.00	Pass
n40_2422MHz_Chain 0	26.88	20.00	Pass
n40_2422MHz_Chain 1	27.10	20.00	Pass
n40_2452MHz_Chain 0	26.08	20.00	Pass
n40_2452MHz_Chain 1	26.97	20.00	Pass

For Chain 0:

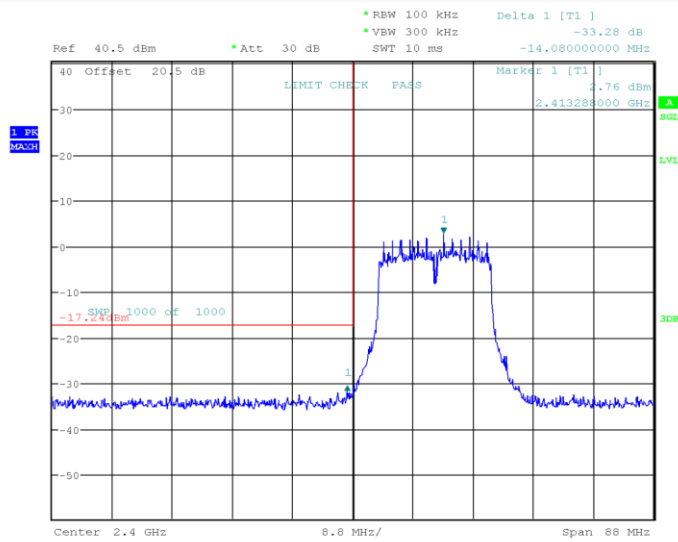
802.11b Mode Left Side



802.11b Mode Right Side

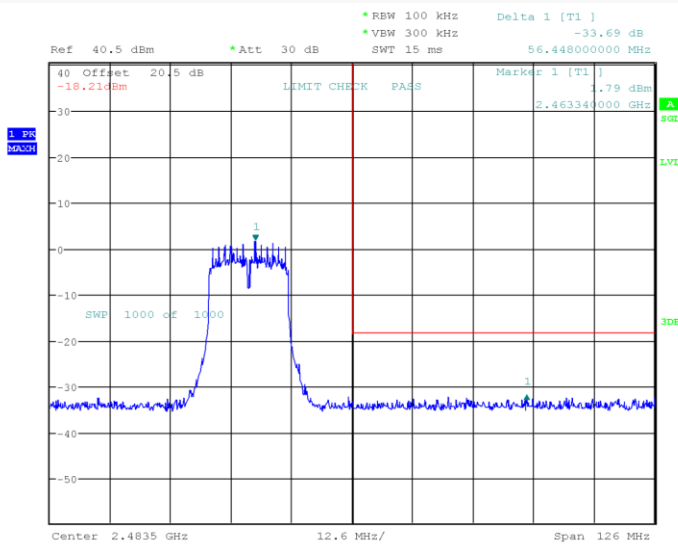


802.11g Mode Left Side



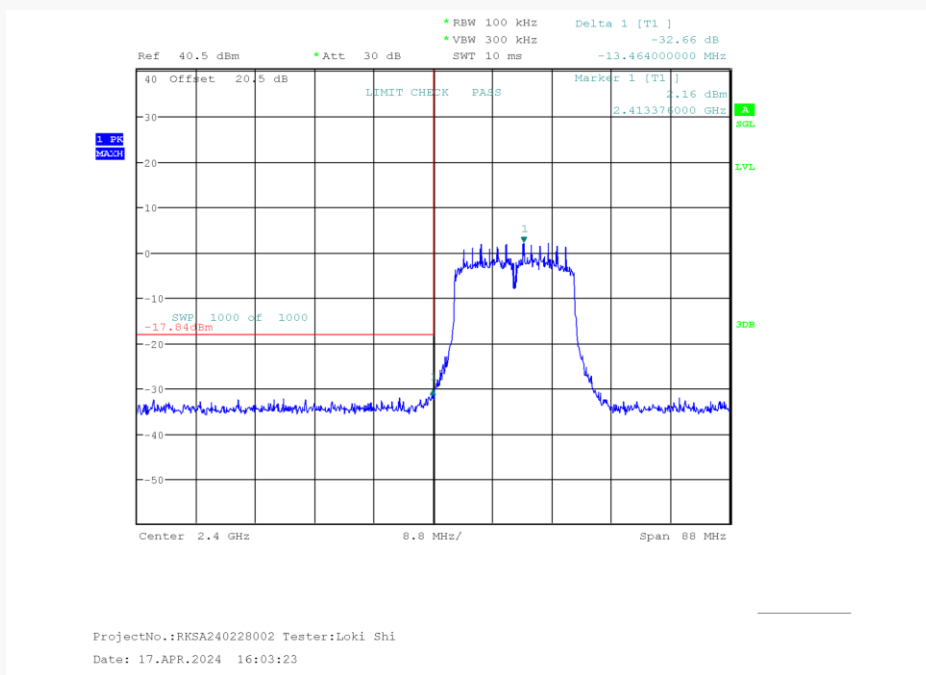
ProjectNo.:RKSA240228002 Tester:Loki Shi
 Date: 17.APR.2024 15:39:15

802.11g Mode Right Side

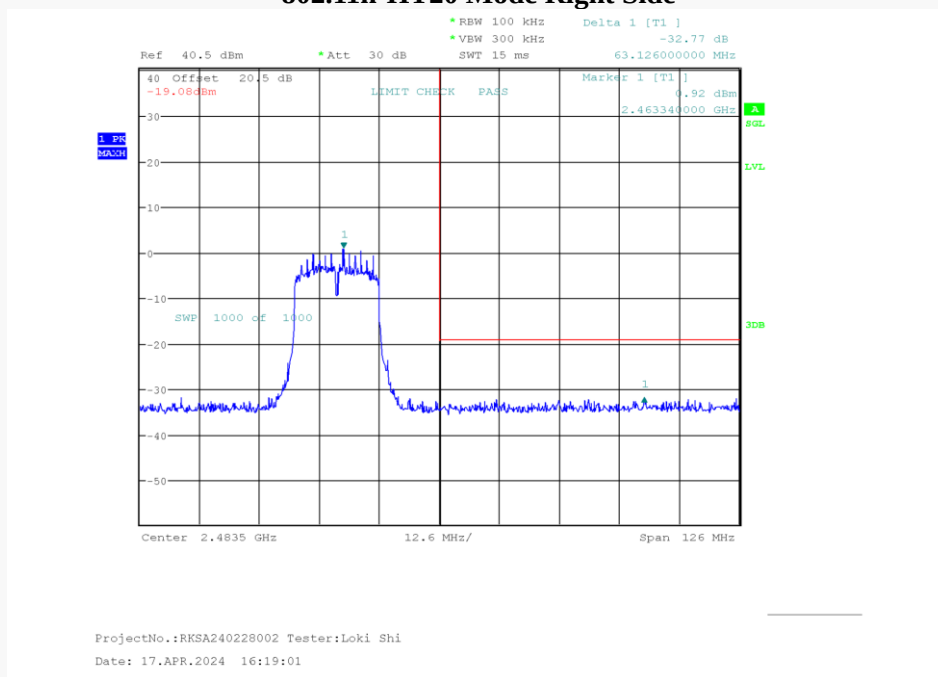


ProjectNo.:RKSA240228002 Tester:Loki Shi
 Date: 17.APR.2024 15:54:20

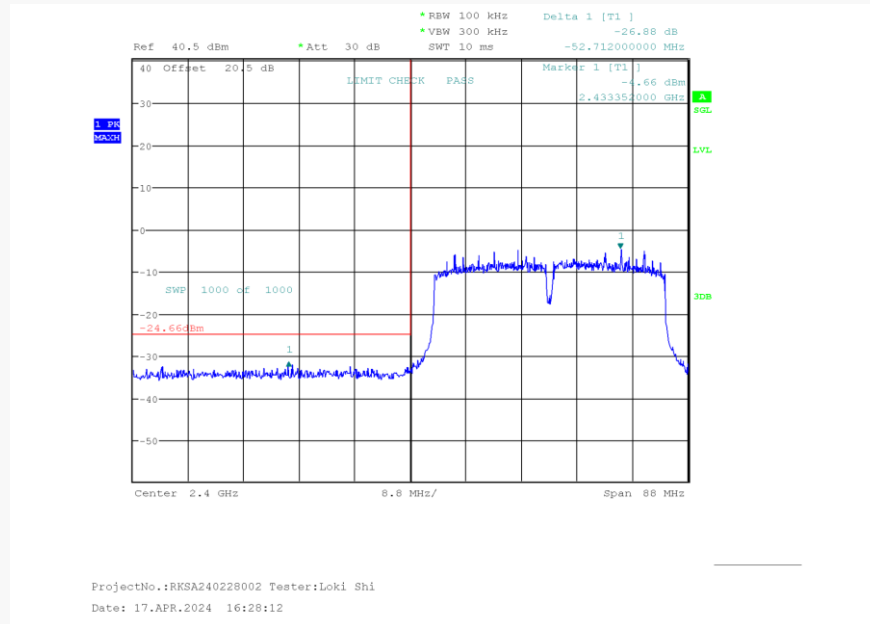
802.11n-HT20 Mode Left Side



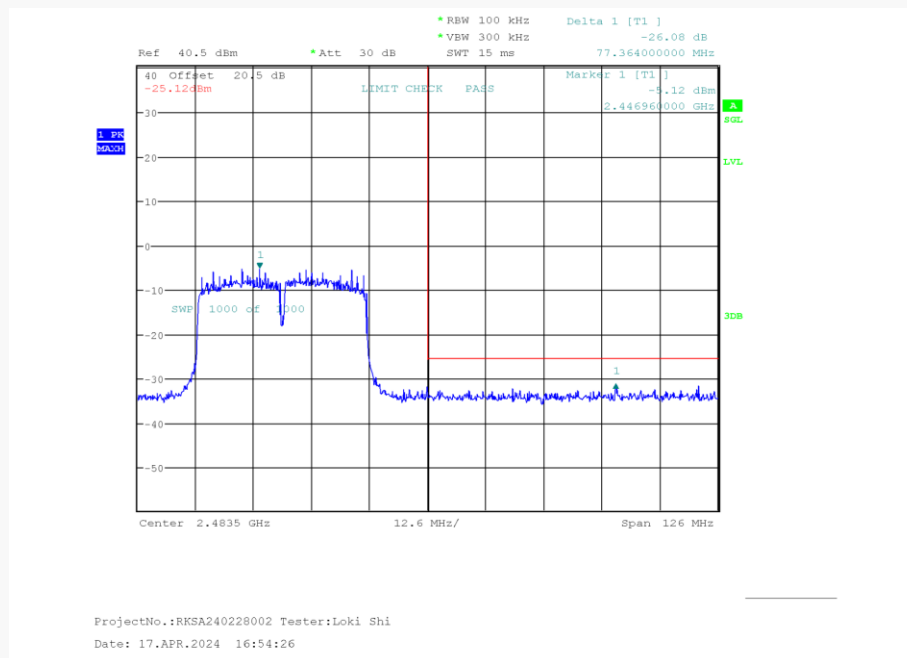
802.11n-HT20 Mode Right Side

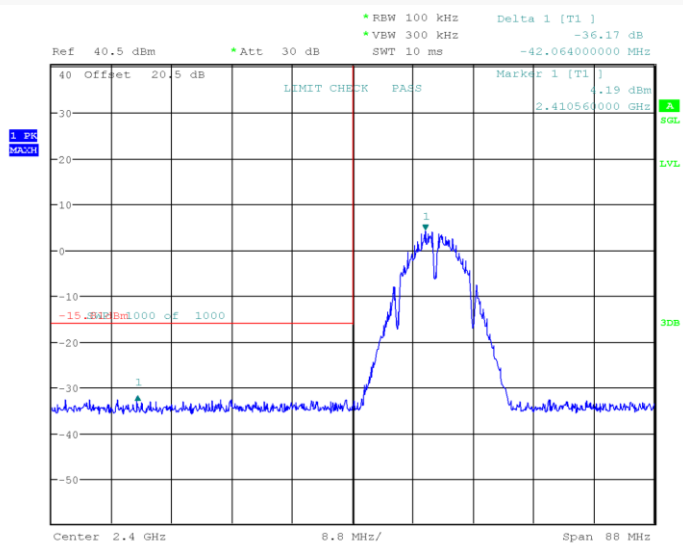


802.11n-HT40 Mode Left Side

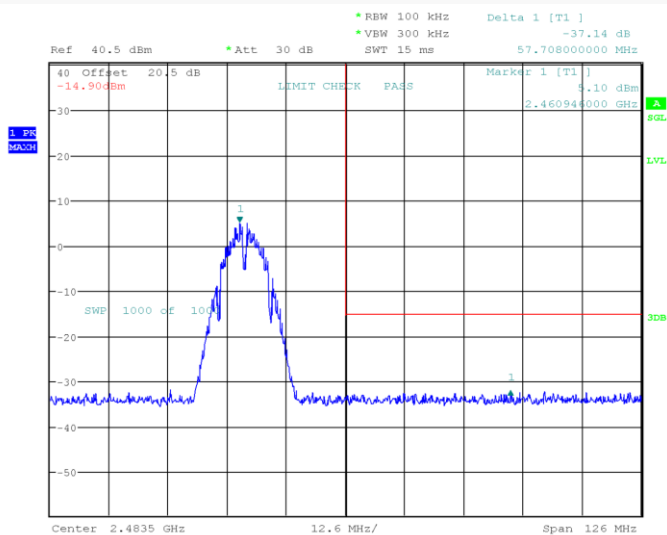


802.11n-HT40 Mode Right Side



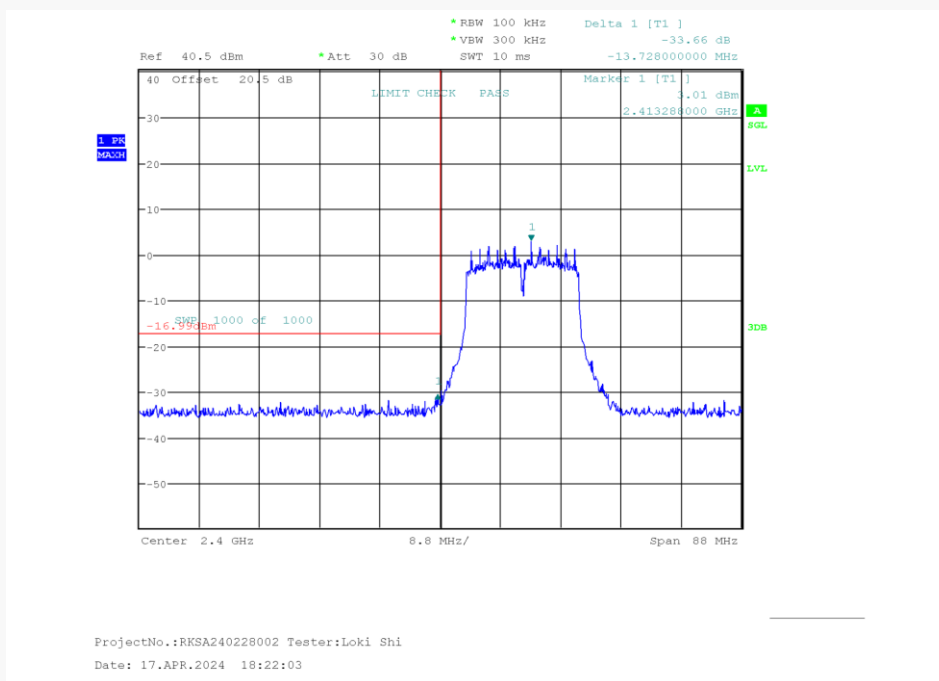
For Chain 1:**802.11b Mode Left Side**

ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 17:52:03

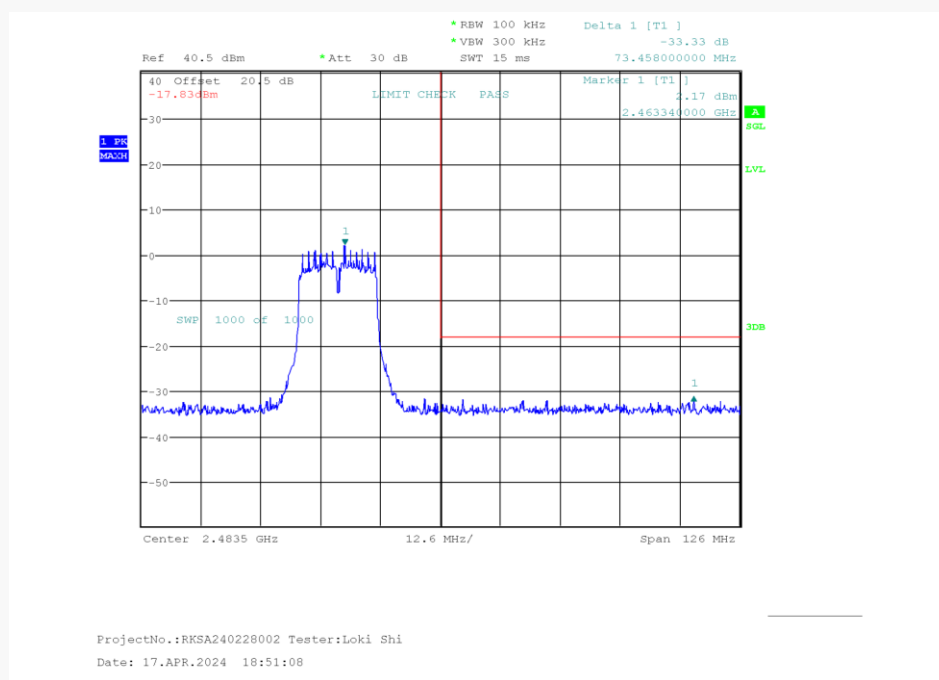
802.11b Mode Right Side

ProjectNo.:RKSA240228002 Tester:Loki Shi
Date: 17.APR.2024 18:05:41

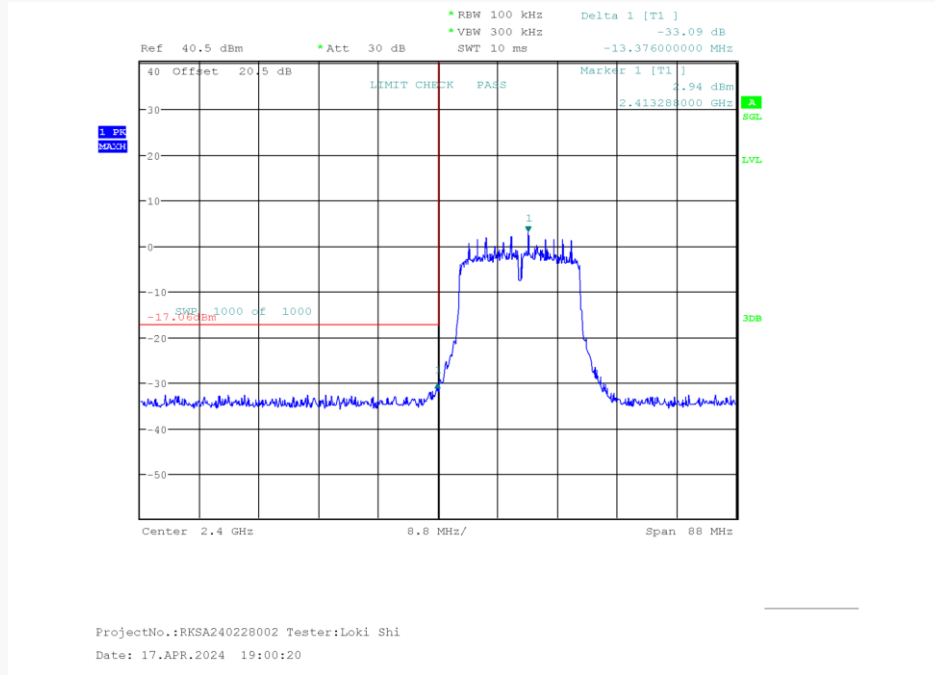
802.11g Mode Left Side



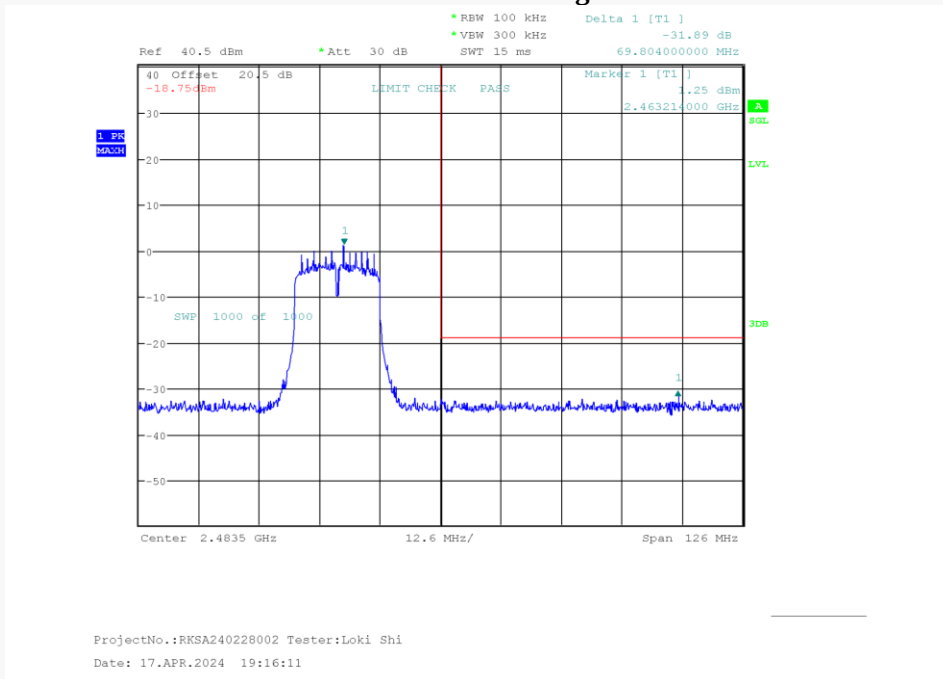
802.11g Mode Right Side



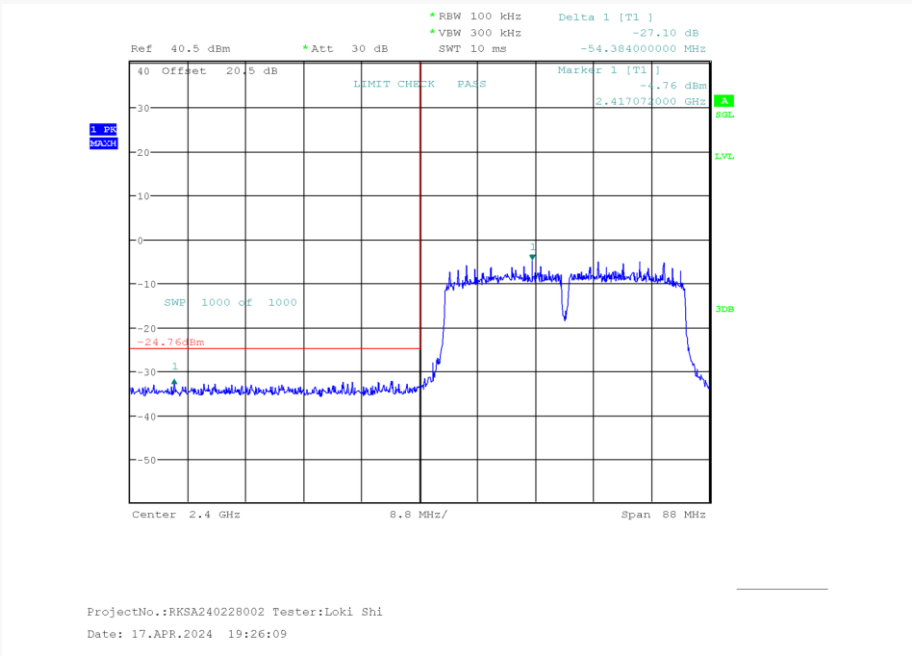
802.11n-HT20 Mode Left Side



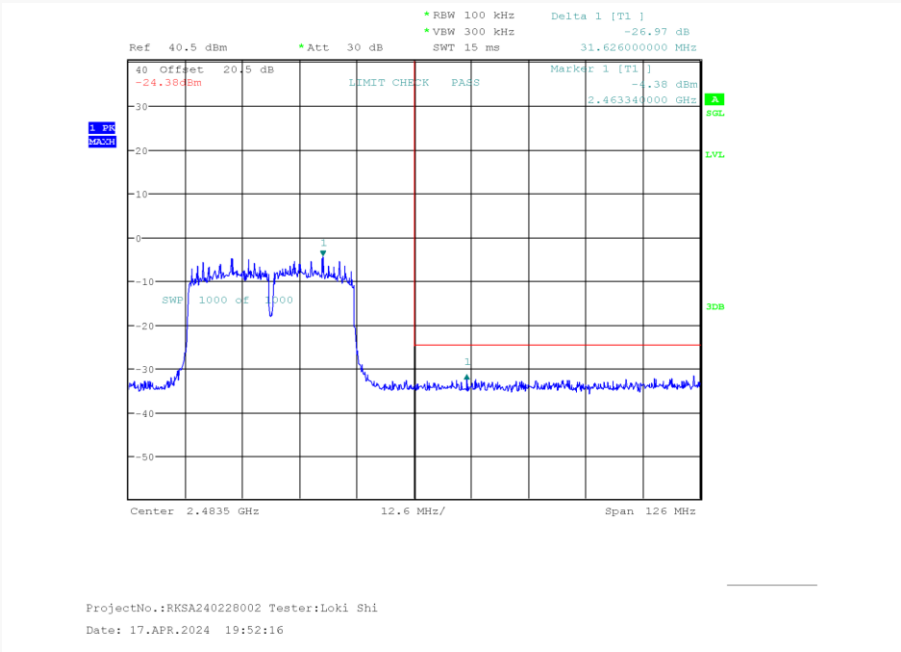
802.11n-HT20 Mode Right Side



802.11n-HT40 Mode Left Side



802.11n-HT40 Mode Right Side



EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A-EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B-EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C-TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

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