



Test report No. : 4790239884-US-R0-V0
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Issued date : 2022/2/17
FCC ID : 2A3HV-CIC15A

RADIO TEST REPORT

Product : Wireless console module

Model Name : CIC15101

FCC ID : 2A3HV-CIC15A

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2021/12/23

Test Date : 2021/12/27 ~ 2022/1/21

Issued Date : 2022/2/17

Applicant : Hydrow, Inc.
10 Summer St, 5th Floor Boston MA 02110

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



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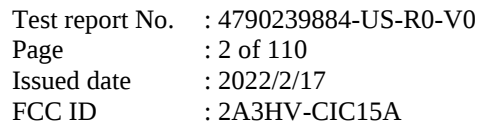
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Doc No: 17-EM-F0876 / 6.0



Original Test Report No.: 4790239884-US-R0-V0

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1. Attestation of Test Results

APPLICANT: Hydrow, Inc.
10 Summer St, 5th Floor Boston MA 02110

MANUFACTURER: InnoComm Mobile Technology Corporation
3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 300092,
Taiwan

EUT DESCRIPTION: Wireless console module

BRAND: Hydrow, Inc.

MODEL: CIC15101

SAMPLE STAGE: Design Verification Test sample

DATE of TESTED: 2021/12/27 ~ 2022/1/21

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart C (Section 15.247)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Sally Lu Date : 2022/2/17
Project Handler

Approved and Authorized By:

Waternil Guan Date : 2022/2/17
Engineer

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)	Conducted Output Power	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Antenna Port Emission	PASS
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS
15.207	AC Power Conducted Emission	PASS
15.203	Antenna Requirement	PASS

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013 and KDB 662911 D01 Multiple Transmitter Output v02r01.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Measurement	Frequency	Uncertainty
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	± 3.1 dB
RF Conducted	9 kHz - 40GHz	± 1.9 dB
Radiated disturbance below 30MHz	9 kHz - 30 MHz	± 1.9 dB
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	± 5.4 dB
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	± 4.7 dB

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6. Equipment under Test

6.1. Description of EUT

Product	Wireless console module
Brand Name	Hydrow, Inc.
Model Name	CIC15101
Operating Frequency	2412MHz ~ 2462MHz
Modulation	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transfer Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to MCS15
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
Maximum Output Power	802.11b: 20.64 dBm 802.11g: 27.82 dBm 802.11n (HT20): 27.99 dBm 802.11n (HT40): 25.59 dBm
Normal Voltage	120Vac/ 60Hz
Sample ID	4602151
Software Version	Android version 11

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx,Rx Function
802.11b	2TX,2RX
802.11g	2TX,2RX
802.11n (HT20)	2TX,2RX
802.11n (HT40)	2TX,2RX

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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6.2. Channel List

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	-	-

7 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	-	-

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6.3. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	20~26°C/ 62~68%RH	120Vac/ 60Hz	2021/12/27~ 2022/01/20	Mike Cai
Radiated Spurious Emission	966-2	20~26°C/ 62~68%RH	120Vac/ 60Hz	2021/12/27~ 2022/01/21	Mike Cai
AC power Line Conducted Emission	SR1	20~26°C/ 62~68%RH	120Vac/ 60Hz	2021/12/27~ 2022/01/20	Mike Cai

FCC Test Firm Registration Number: 498077

6.4. Description of Available Antennas

Ant. No.	Transmitter Circuit	Ant. Type	Maximum Gain (dBi)
1	Chain (0)+(1)	PCB	2.4GHz: 3.14 5GHz: 4.63

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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6.5. Test Mode Applicability and Tested Channel Detail

- The fundamental of the EUT's Antenna was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that Y-Z plane was worst-case. Therefore, all final radiated testing was performed with the Y-Z plane at Antenna.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- For below 1 GHz radiated emission and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Test Item	Mode	Modulation Technology	Modulation Type	Available Channel	Test Channel	Data Rate
Radiated Emissions (Above 1GHz)	802.11b	DSSS	DBPSK	1 to 11	1,6,11	1 Mbps
	802.11g	OFDM	BPSK	1 to 11	1,2,6,10,11	6 Mbps
	802.11n20	OFDM	BPSK	1 to 11	1,2,6,10,11	MCS0
		OFDM	BPSK	1 to 11	1,2,6,10,11	MCS0
	802.11n40	OFDM	BPSK	3 to 9	3,6,9	MCS0
		OFDM	BPSK	3 to 9	3,6,9	MCS0
Radiated Emissions (Below 1GHz)	802.11n20	DSSS	BPSK	1 to 11	6	MCS0
AC Power Line Conducted Emission	802.11n20	DSSS	BPSK	1 to 11	6	MCS0
*Antenna Port Conducted Measurement	802.11b	DSSS	DBPSK	1 to 11	1,6,11	1 Mbps
	802.11g	OFDM	BPSK	1 to 11	1,2,6,10,11	6 Mbps
	802.11n20	OFDM	BPSK	1 to 11	1,2,6,10,11	MCS0
		OFDM	BPSK	1 to 11	1,2,6,10,11	MCS0
	802.11n40	OFDM	BPSK	3 to 9	3,6,9	MCS0
		OFDM	BPSK	3 to 9	3,6,9	MCS0

*Note: For Antenna Port Conducted Measurement item, Inner channels only test Power and Conducted Out of Band Emission.

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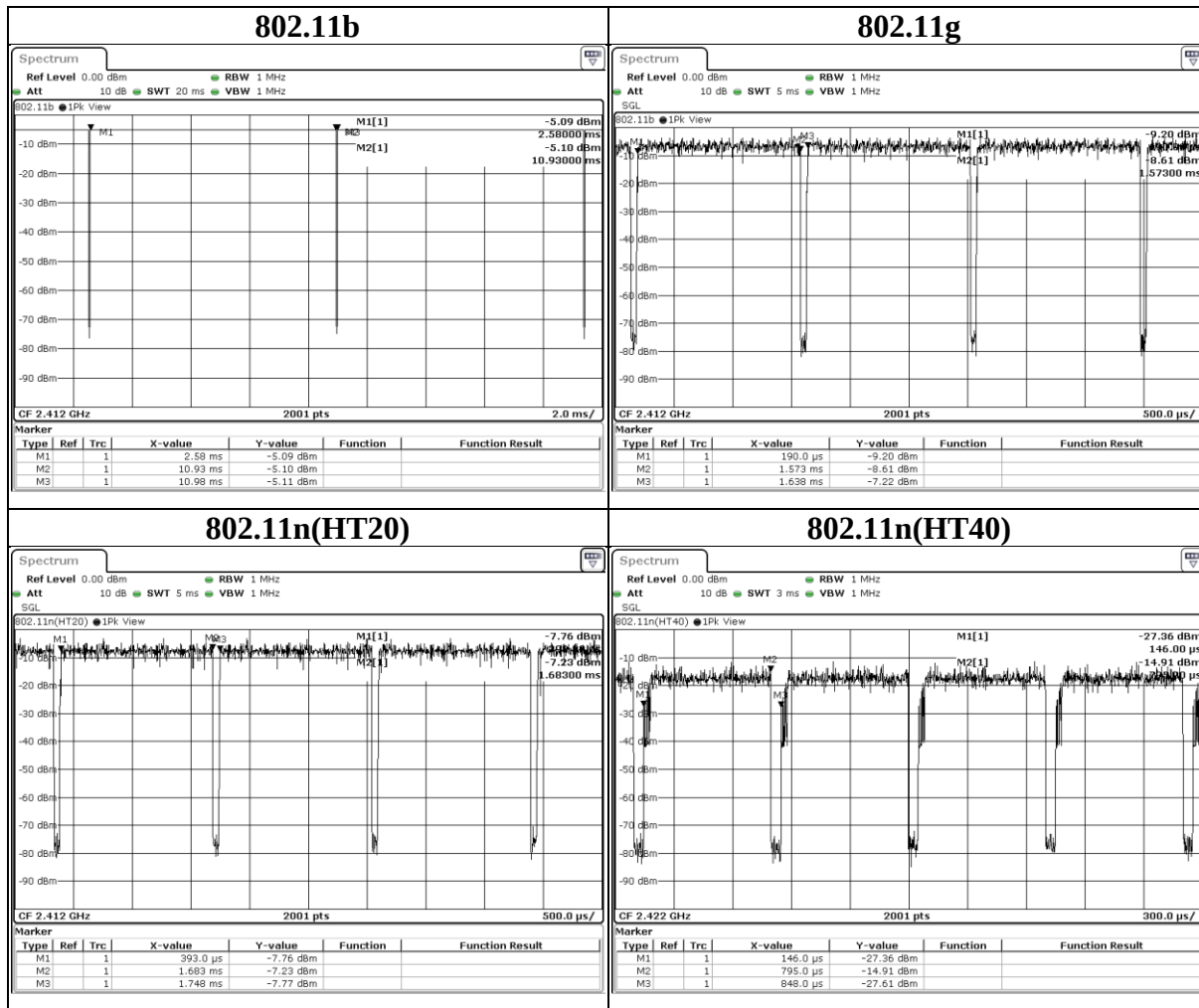
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6.6. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle	Duty Factor (dB)	VBW Set (above 1GHz)
802.11b	8.350	8.400	0.99	N/A	10Hz
802.11g	1.383	1.448	0.96	0.20	1kHz
802.11n(HT20)	1.290	1.355	0.95	0.21	1kHz
802.11n(HT40)	0.649	0.702	0.93	0.34	2kHz





7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070827	2021/11/9	2022/11/8
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2021/12/10	2022/12/9
Loop Antenna	ETS lindgren	6502	00213440	2021/12/23	2022/12/22
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	9168-773 & AT-N0539	2021/3/11	2022/3/10
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2021/12/13	2022/12/12
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2021/12/17	2022/12/16
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2021/6/8	2022/6/7
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2021/2/3	2022/2/2
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2021/5/19	2022/5/18
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2021/1/22	2022/1/21
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2021/1/22	2022/1/21

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Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	2021/10/29	2022/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531202	2021/12/22	2022/12/21
Power Meter	Anritsu	ML2495A	1645002	2021/12/22	2022/12/21
AC power Line Conducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	2021/11/15	2022/11/14
Two-Line V-Network	Rohde & Schwarz	ENV216	102136	2021/8/30	2022/8/29
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	2021/8/26	2022/8/25
Cables	TITAN	CFD200	T0732ACFD200 20A300-1	2021/3/2	2022/3/1

UL Software		
Description	Name	Version
Radiated measurement	e3	6.191211 (V6)
Conducted measurement	RF Conducted Test Tools	ver 2.4.0.620b
AC power Line Conducted Emission	EZ_EMC	UL-3A1.2

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8. Description of Test Setup

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	Laptop	Lenovo	T460	PC0FWU5Y	Provide by lab
B	Test tool	GoldenCrow	MB-R002	NA	Supplied by client
C	Adapter	TECH	ATS050-P121	NA	Supplied by client

I/O Cables

ID	Equipment	Brand Name	Model Name	Length (m)	Remark
1	Type C to USB Cable	UGREEN	US287	1	Provide by lab
2	Micro USB Cable	fujiei	Z08145	1	Provide by lab
3	DC Cable	TECH	ATS050-P121	1.5	with one core, Supplied by client
4	AC Cable	NA	NA	1.75	Supplied by client
5	RJ45	Fastlink	FL-61STU-04	10	Provide by lab

Test Setup

The EUT was worked in engineering mode to transmit signal.

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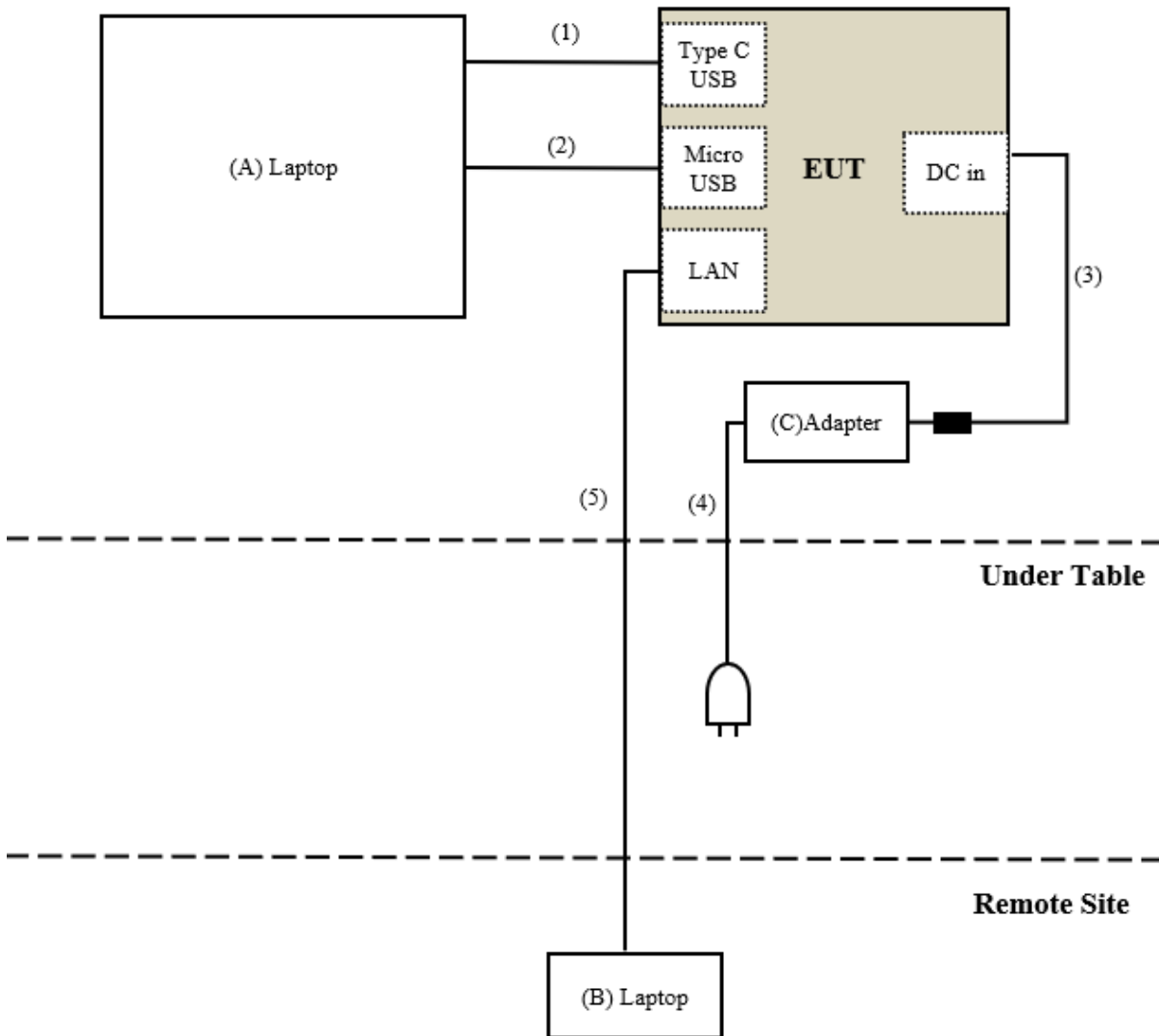
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Setup Diagram for Test



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9. Test Results

9.1. 6dB Bandwidth

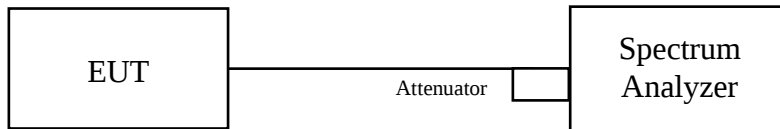
Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

- Set resolution bandwidth (RBW) = 100kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.



Test Data

Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11b	1	2412	9.274	9.293	0.5	Pass
	6	2437	9.260	9.258	0.5	Pass
	11	2462	9.269	9.269	0.5	Pass

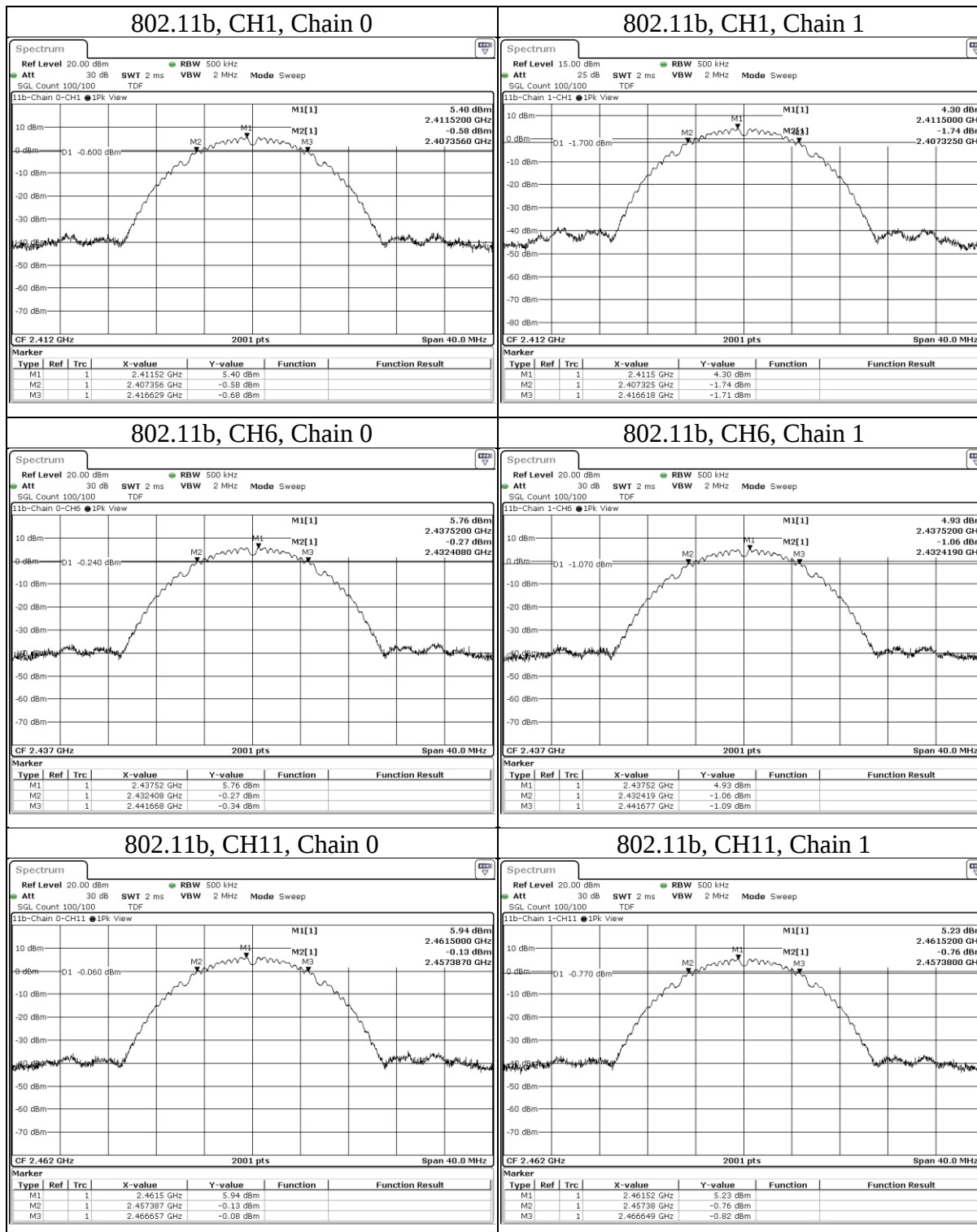
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11g	1	2412	15.535	16.125	0.5	Pass
	6	2437	15.893	16.262	0.5	Pass
	11	2462	16.161	16.204	0.5	Pass

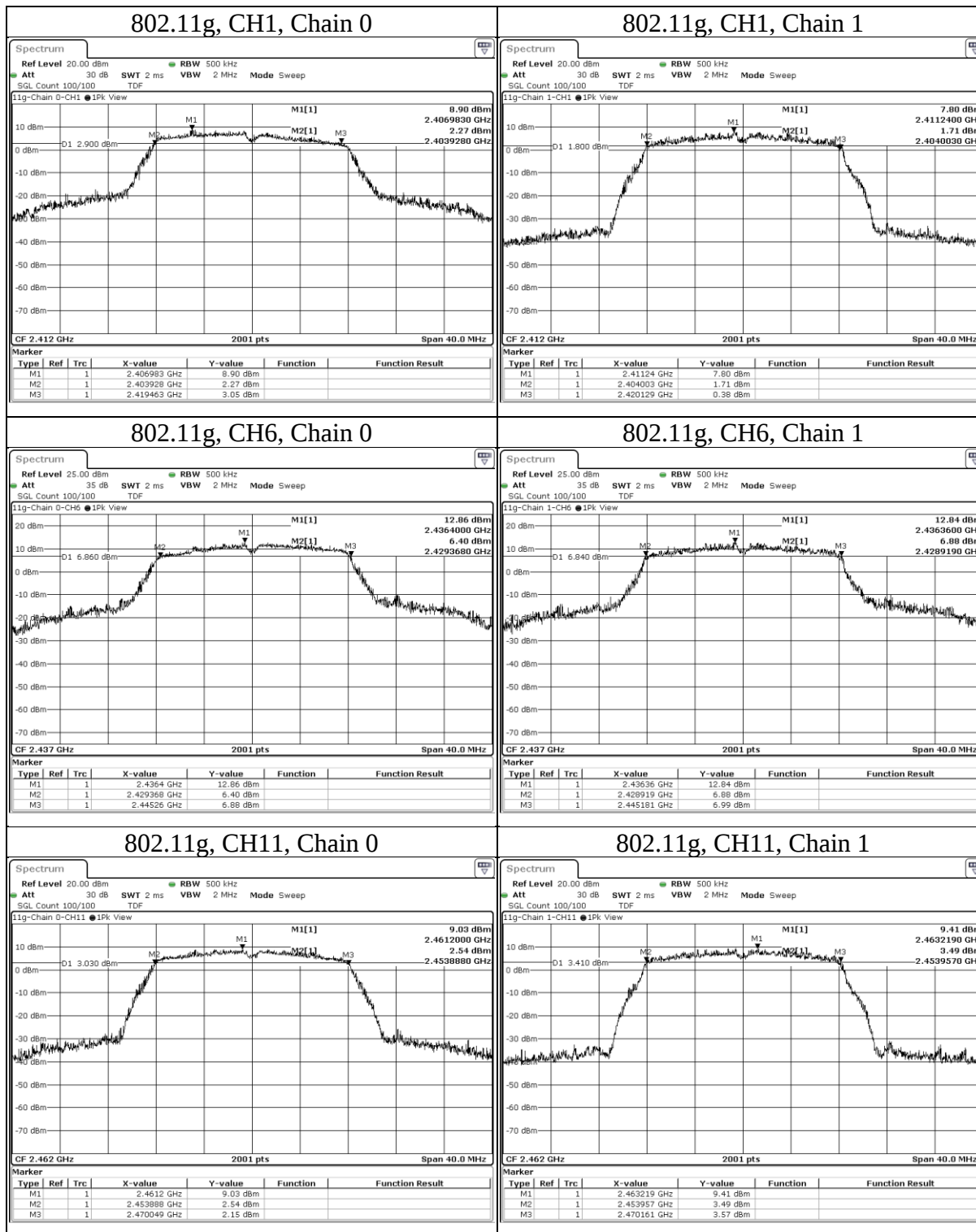
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11n(HT20)	1	2412	16.840	16.640	0.5	Pass
	6	2437	17.099	16.517	0.5	Pass
	11	2462	17.206	16.720	0.5	Pass

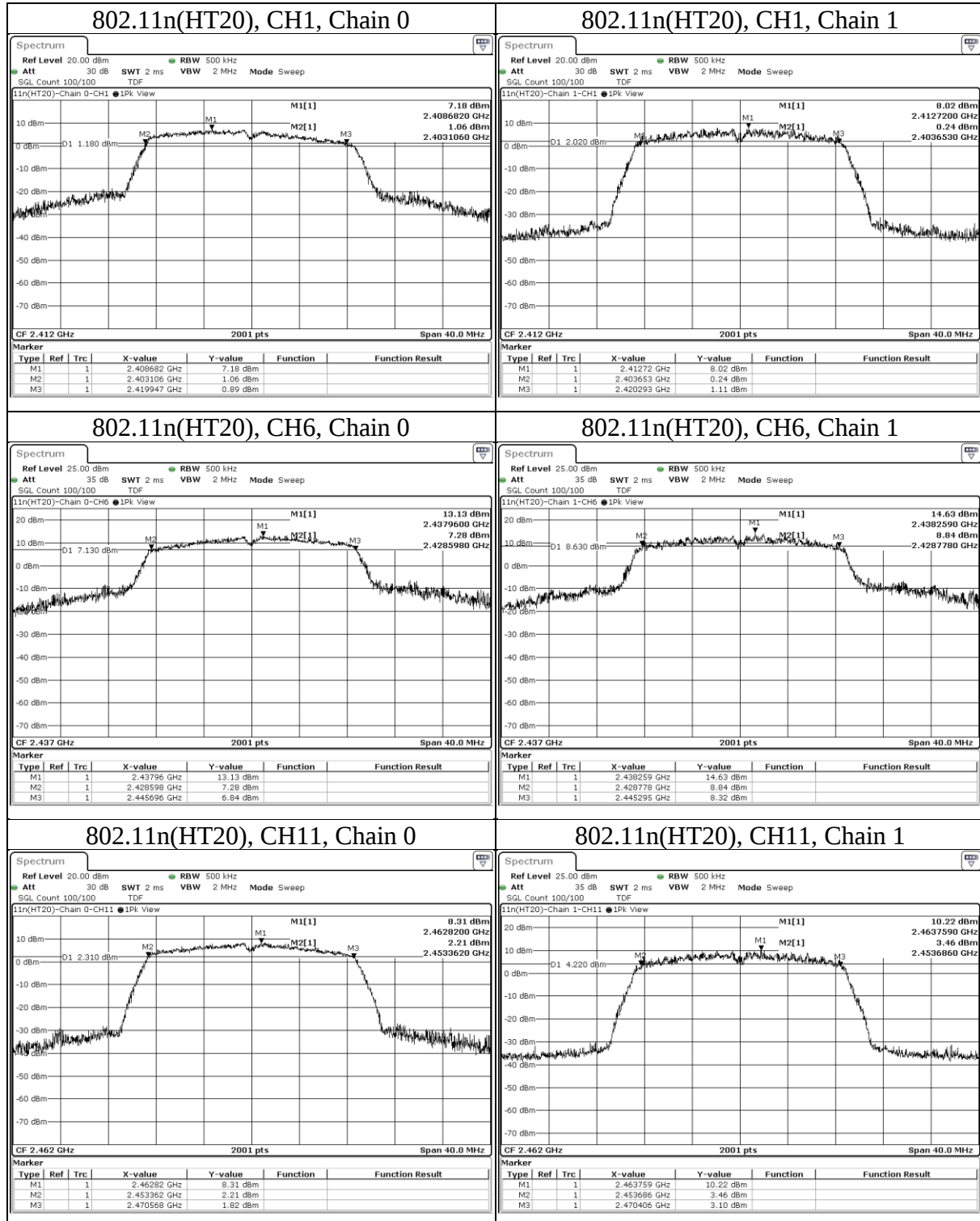
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11n(HT40)	3	2422	36.357	35.565	0.5	Pass
	6	2437	35.389	34.046	0.5	Pass
	9	2452	34.897	35.450	0.5	Pass

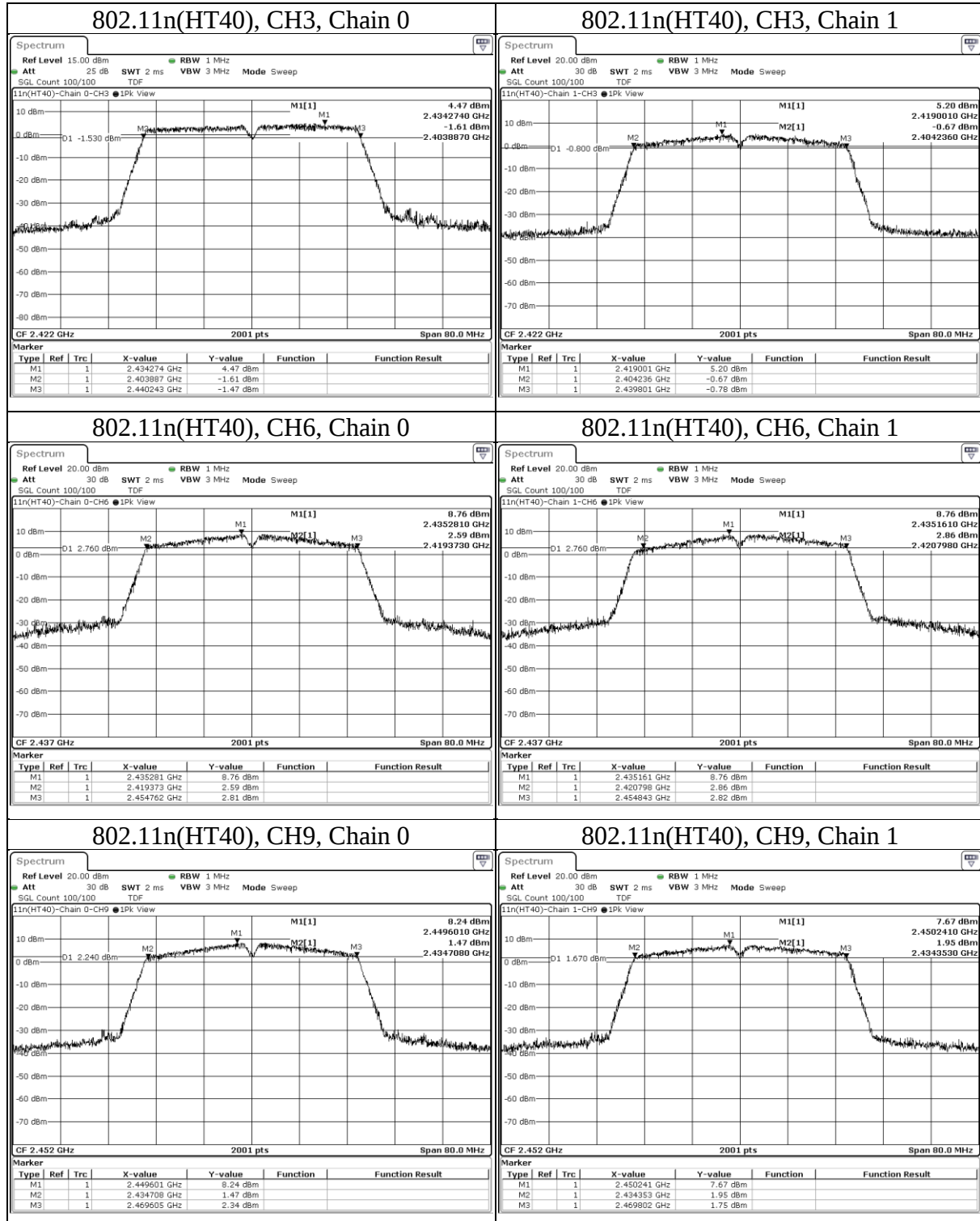
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9.2. Conducted Output Power

Requirements

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Note:

1. Directional Gain = $G_{\text{ant}} + 10 \log (N_{\text{ant}})$ dBi.

N_{ant} : Number of Transmit Antennas

$G_1, G_2, \dots, G_n$: Gain of Individual Antennas (Same for Each Antenna)

2. Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

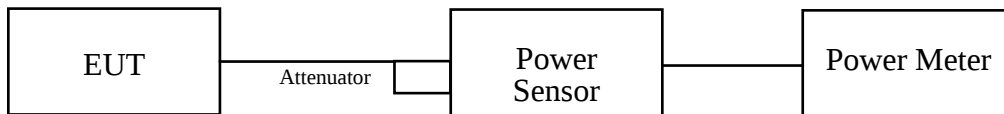
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.



Test Data

Peak Power

802.11b

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	17.44	16.44	99.541	19.98	30	PASS
6	2437	17.84	16.88	109.648	20.40	30	PASS
11	2462	17.97	17.27	115.878	20.64	30	PASS

802.11g

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.67	21.75	382.825	25.83	30	PASS
2	2417	23.23	23.22	420.727	26.24	30	PASS
6	2437	25.39	24.15	605.341	27.82	30	PASS
10	2457	24.37	23.54	500.035	26.99	30	PASS
11	2462	23.94	23.72	483.059	26.84	30	PASS

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.50	21.81	375.837	25.75	30	PASS
2	2417	24.41	22.45	451.856	26.55	30	PASS
6	2437	25.55	24.32	629.506	27.99	30	PASS
10	2457	24.46	23.65	510.505	27.08	30	PASS
11	2462	23.74	22.83	428.549	26.32	30	PASS

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.35	19.43	195.884	22.92	30	PASS
6	2437	22.74	22.41	362.243	25.59	30	PASS
9	2452	22.64	21.04	310.456	24.92	30	PASS

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Average Power (Reference Only)

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	15.24	14.27	60.117	17.79
6	2437	15.70	14.72	66.834	18.25
11	2462	15.87	15.07	70.795	18.50

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	15.87	14.73	68.391	18.35
2	2417	16.55	16.06	85.507	19.32
6	2437	20.35	19.54	198.153	22.97
10	2457	18.02	17.31	117.22	20.69
11	2462	16.88	16.51	93.541	19.71

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	15.14	14.16	58.749	17.69
2	2417	16.27	15.32	76.384	18.83
6	2437	21.05	20.26	233.346	23.68
10	2457	17.25	16.75	100.462	20.02
11	2462	16.46	16.10	84.918	19.29

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
3	2422	12.68	11.99	34.356	15.36
6	2437	15.66	14.98	68.234	18.34
9	2452	14.87	14.40	58.21	17.65

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9.3. Power Spectral Density

Requirements

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz (If $G_{TX} > 6$ dBi, then $PSD = 8 - (G_{TX} - 6)$).

Note:

1. PSD = power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz.
2. G_{TX} = the maximum transmitting antenna directional gain in dBi.
3. Directional Gain = $G_{ant} + 10 \log(N_{ant})$ dBi.

N_{ant} : Number of Transmit Antennas

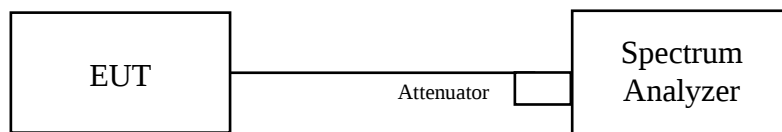
$G_1, G_2, \dots, G_n$: Gain of Individual Antennas (Same for Each Antenna)

Test procedure

For Peak power

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$.
- d. Set the VBW $\geq 3 \times RBW$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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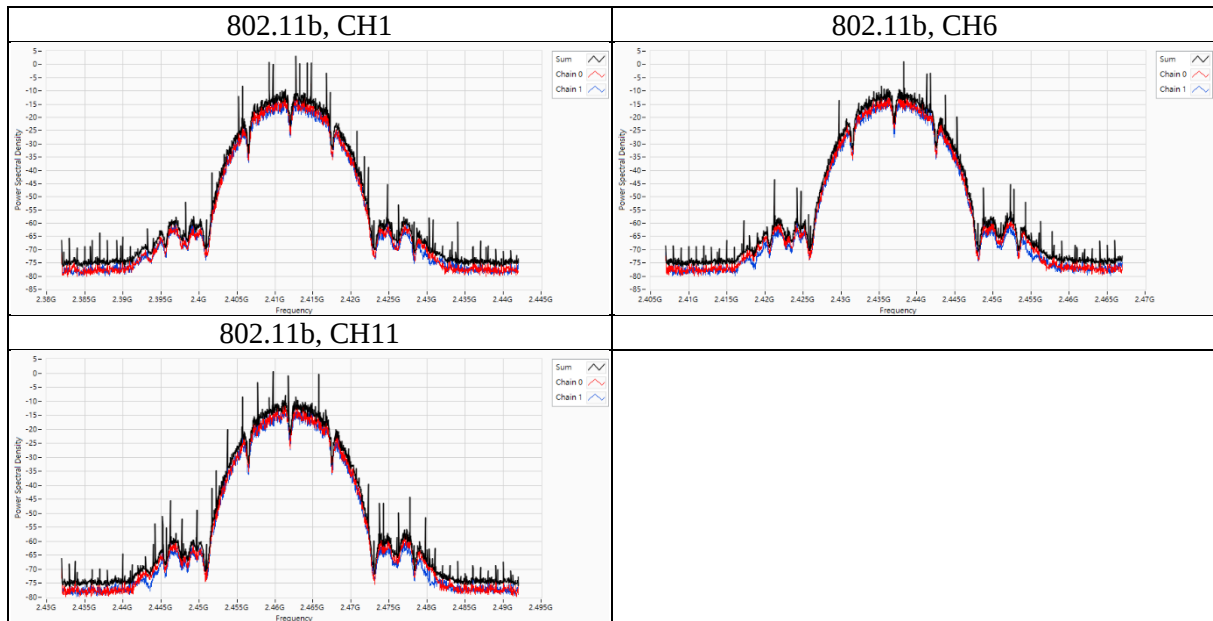
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Test Data

Mode	CH	Freq (MHz)	PSD (dBm/MHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
			Chain 0	Chain 1				
802.11b	1	2412	3.072	0.27	3.147	7.85	6.15	Pass
	6	2437	-10.237	1.067	1.214	7.85	6.15	Pass
	11	2462	-0.437	0.557	0.716	7.85	6.15	Pass



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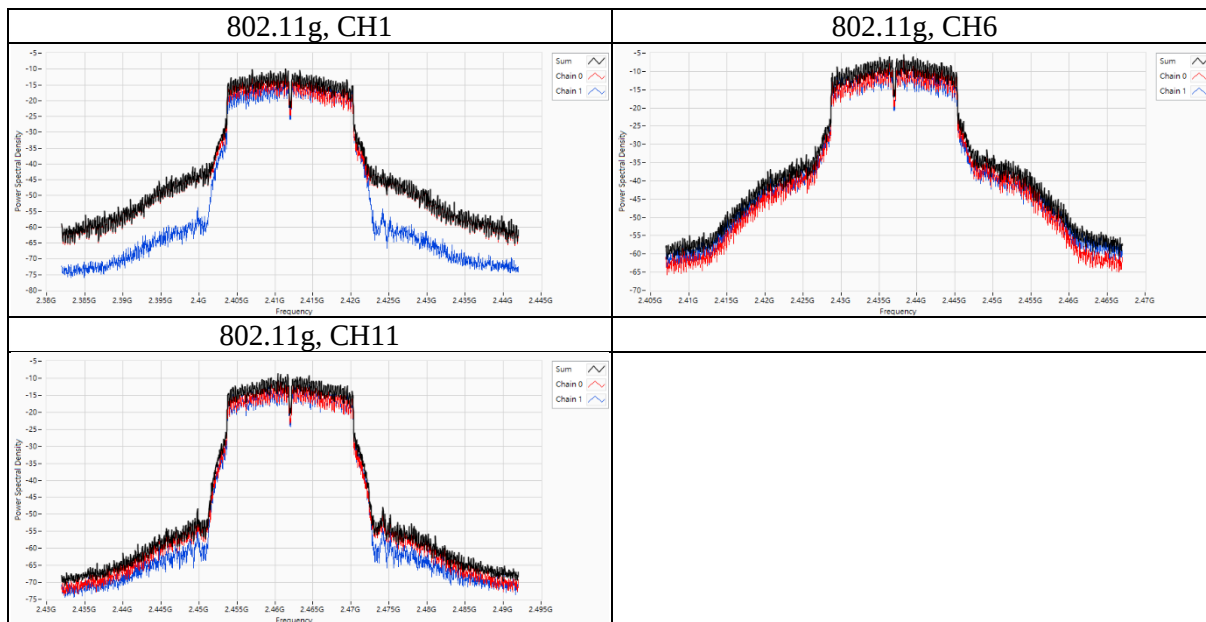
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Mode	CH	Freq (MHz)	PSD (dBm/MHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
			Chain 0	Chain 1				
802.11g	1	2412	-11.456	-13.849	-9.945	7.85	6.15	Pass
	6	2437	-7.021	-9.168	-5.441	7.85	6.15	Pass
	11	2462	-9.878	-12.011	-8.657	7.85	6.15	Pass



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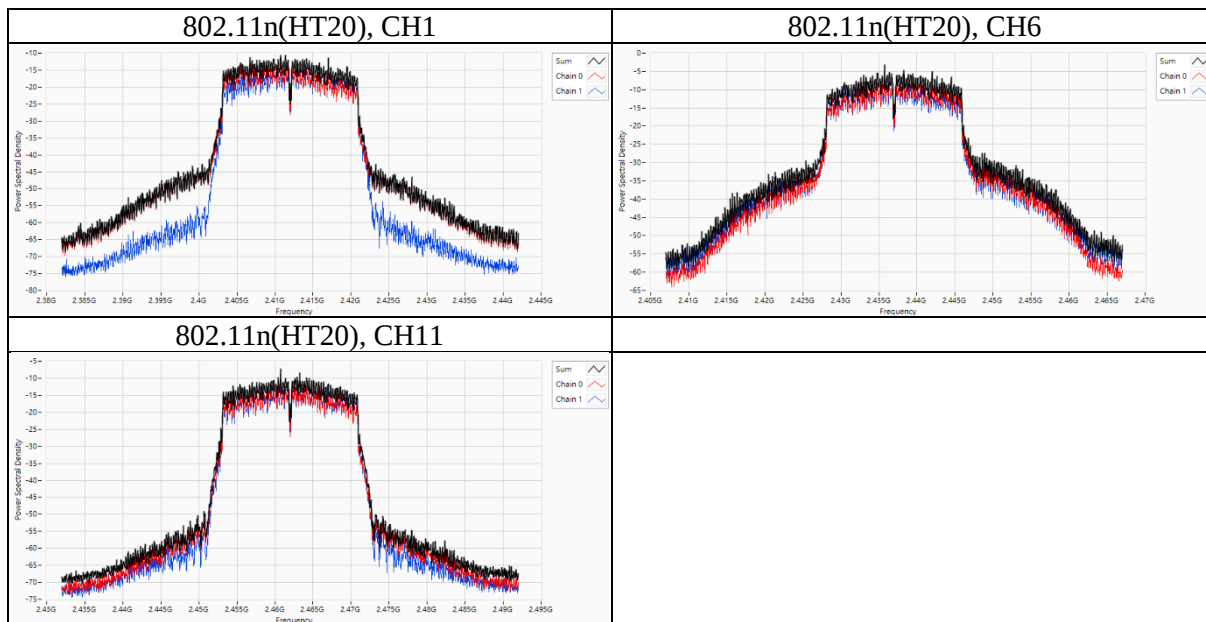
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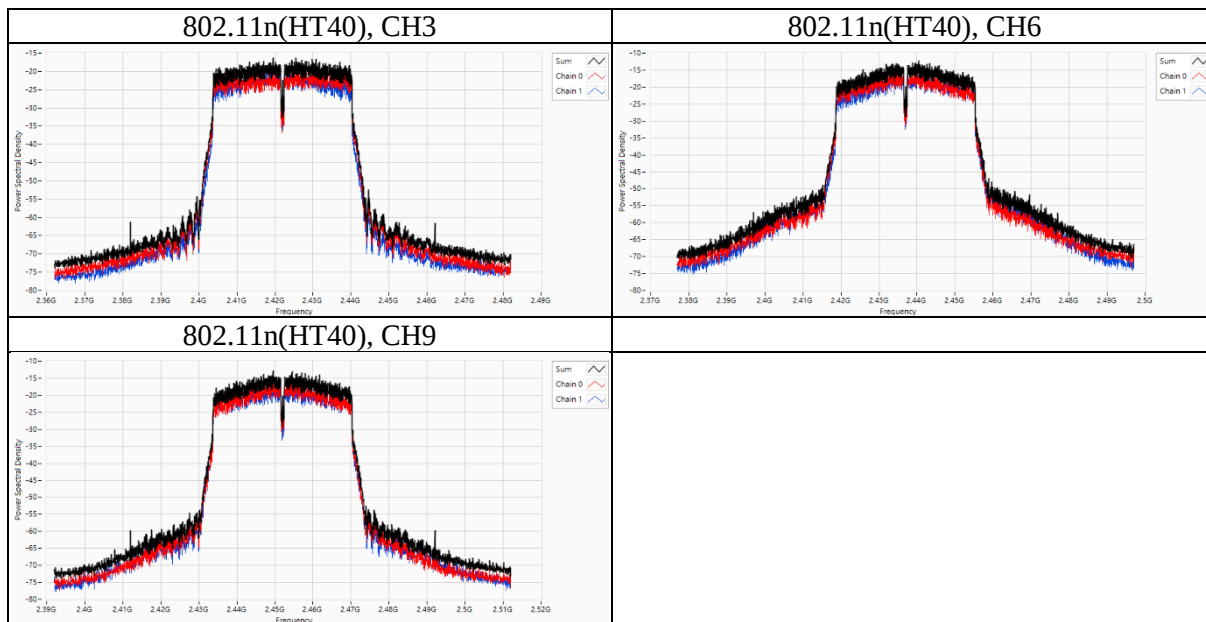


Mode	CH	Freq (MHz)	PSD (dBm/MHz)		Total PSD (dBm/3k Hz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
			Chain 0	Chain 1				
802.11n(HT20)	1	2412	-12.048	-13.689	-10.625	7.85	6.15	Pass
	6	2437	-6.387	-5.353	-3.223	7.85	6.15	Pass
	11	2462	-11.367	-9.3	-7.202	7.85	6.15	Pass





Mode	CH	Freq (MHz)	PSD (dBm/MHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
			Chain 0	Chain 1				
802.11n(HT40)	3	2422	-18.889	-19.334	-16.338	7.85	6.15	Pass
	6	2437	-14.596	-15.28	-12.287	7.85	6.15	Pass
	9	2452	-14.908	-16.318	-12.881	7.85	6.15	Pass



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9.4. Conducted Out of Band Emission

Requirements

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b) (3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209 (a) is not required.

Test procedure

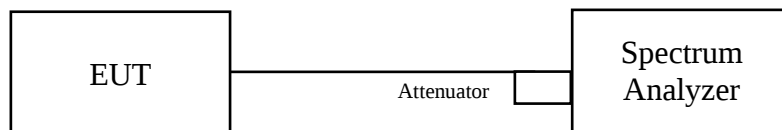
Measurement Procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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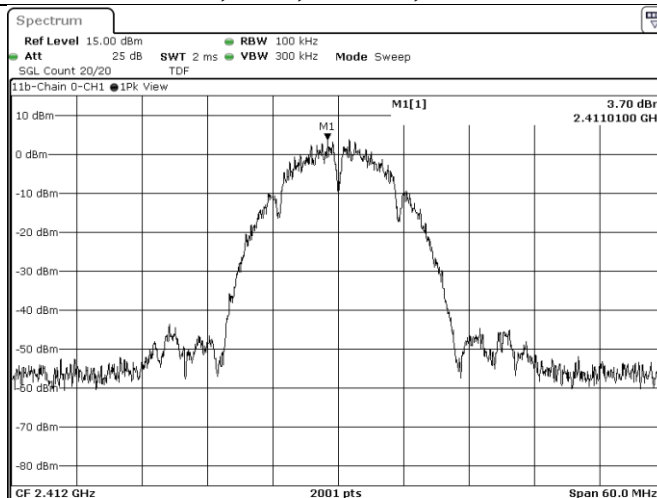
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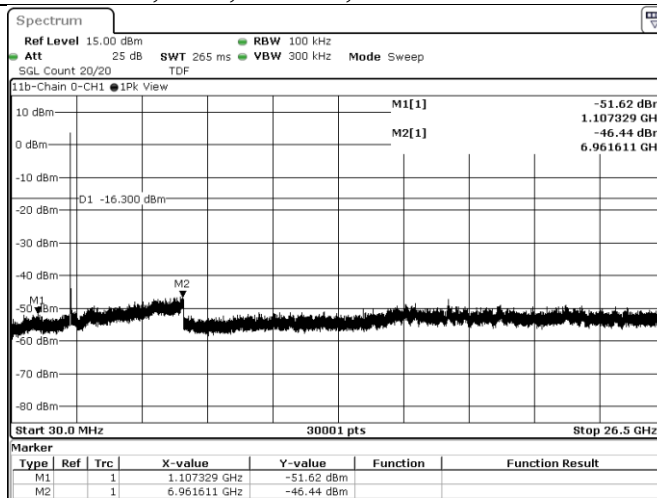


Test Data

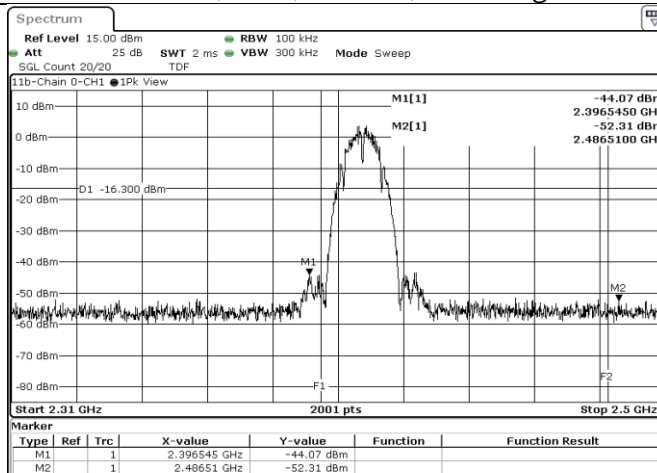
802.11b, CH1, Chain 0, Reference



802.11b, CH1, Chain 0, Conducted Emission



802.11b, CH1, Chain 0, Band edge



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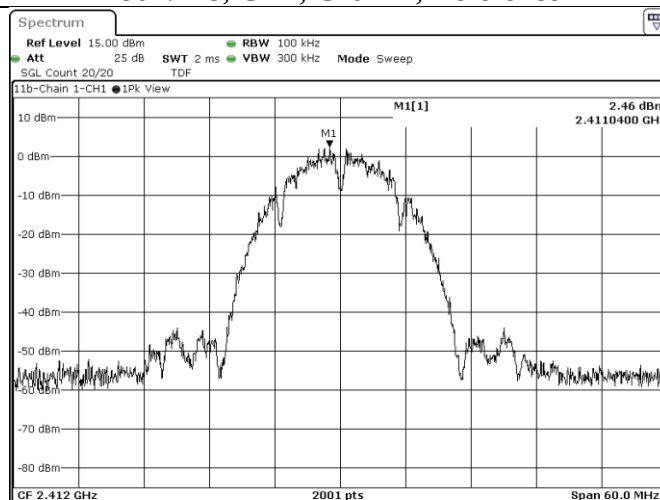
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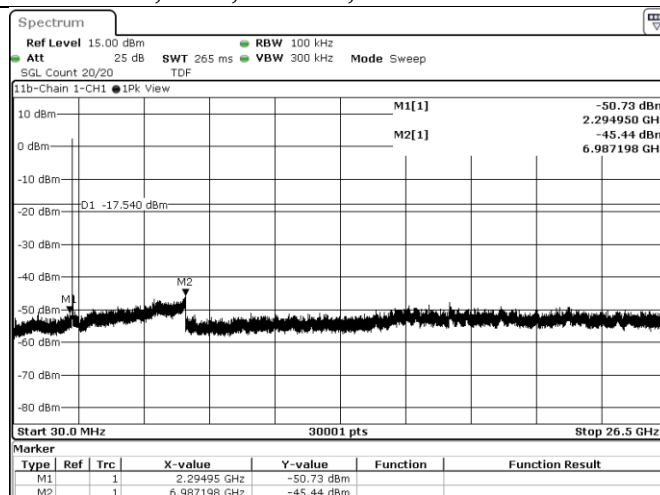
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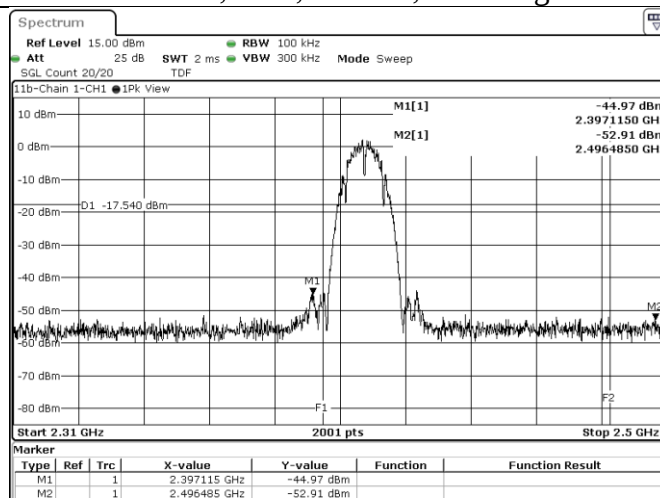
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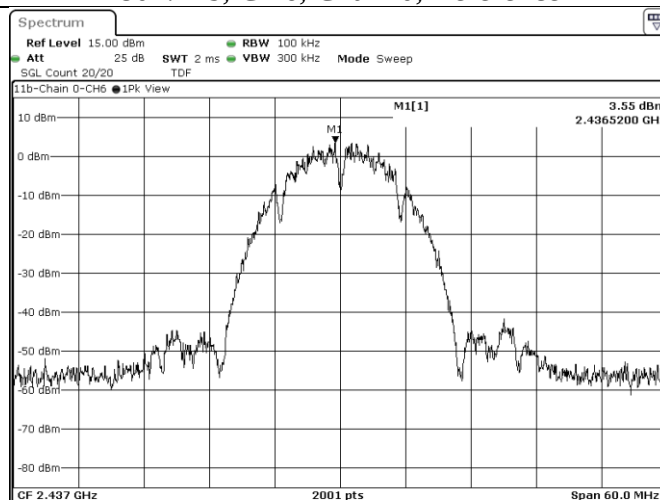


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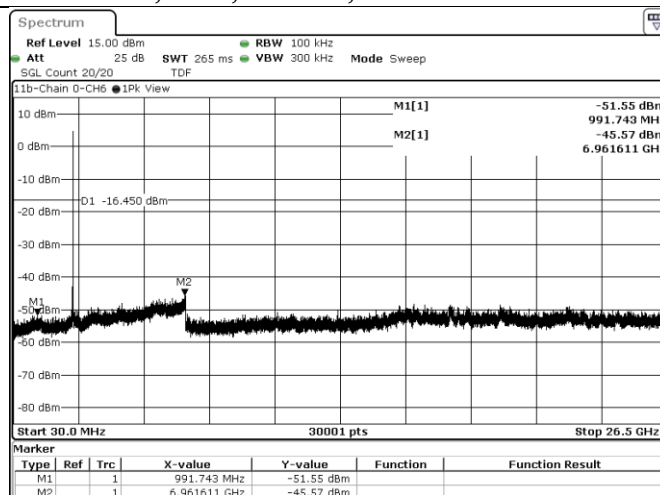




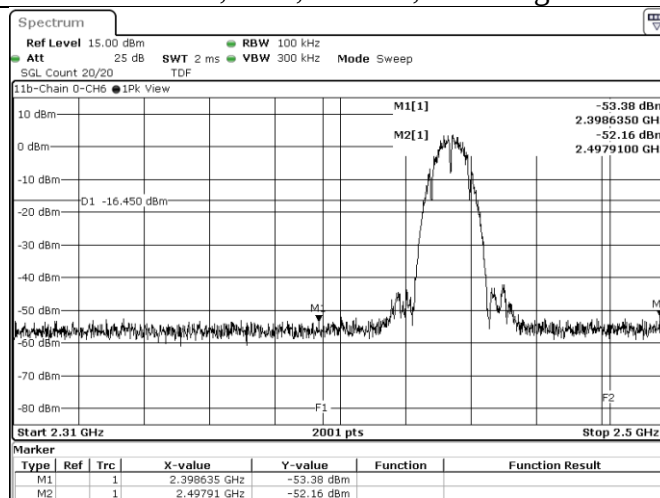
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802.11b, CH6, Chain 0, Conducted Emission

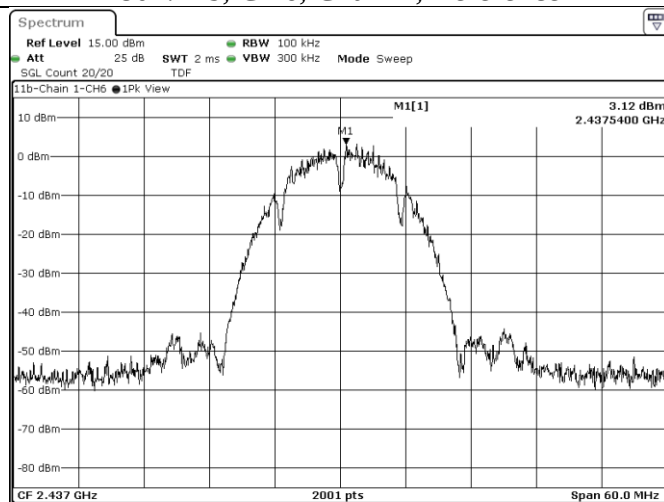


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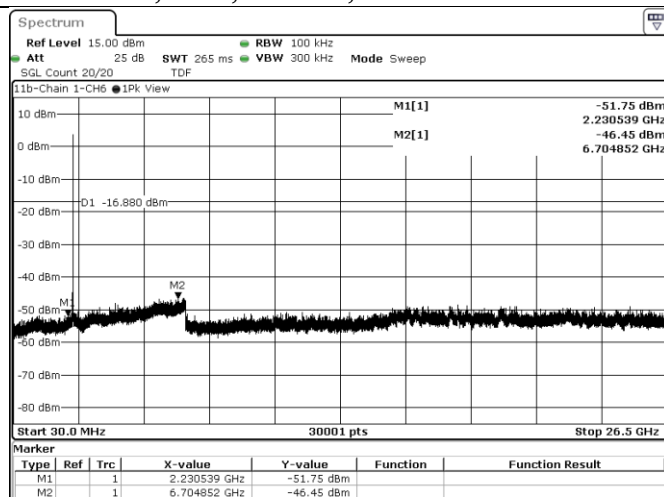




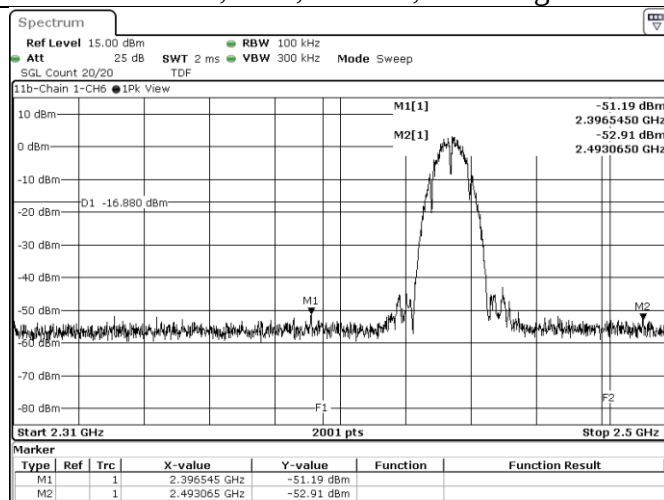
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802.11b, CH6, Chain 1, Conducted Emission

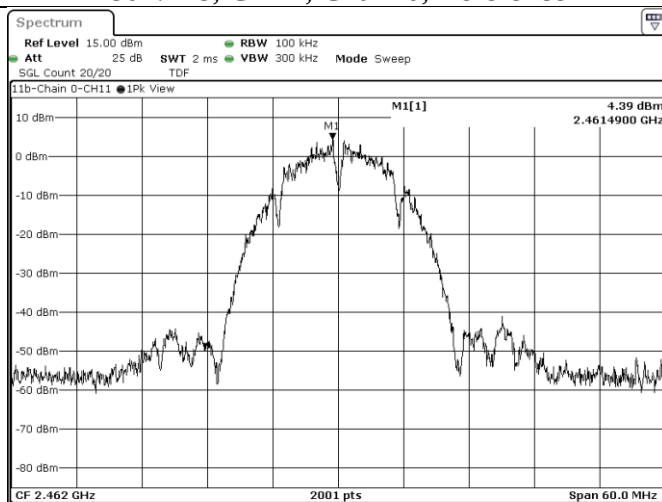


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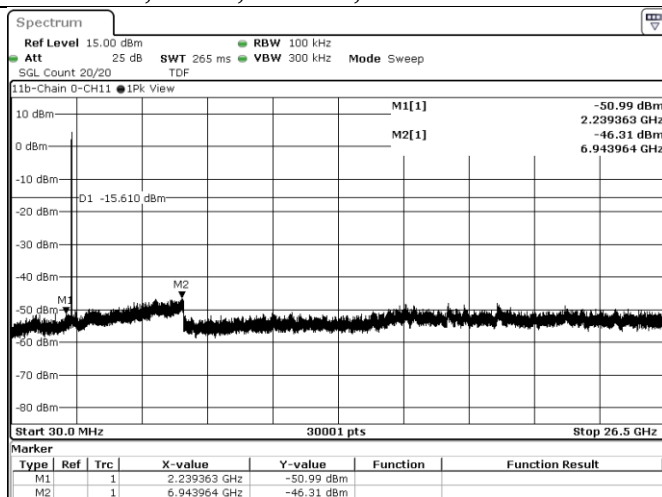




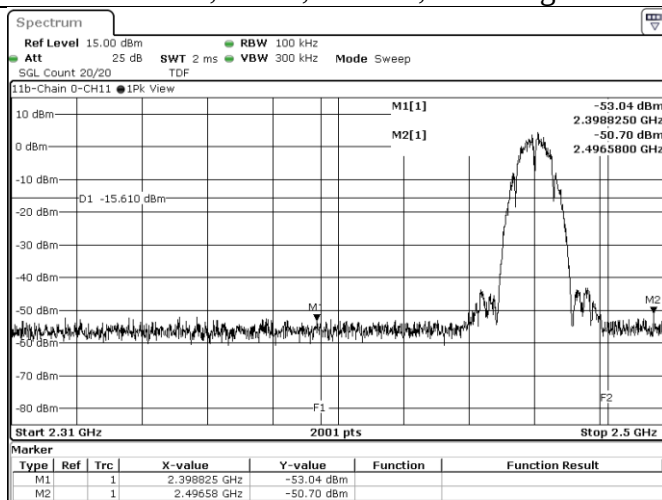
802.11b, CH11, Chain 0, Reference



802.11b, CH11, Chain 0, Conducted Emission



802.11b, CH11, Chain 0, Band edge



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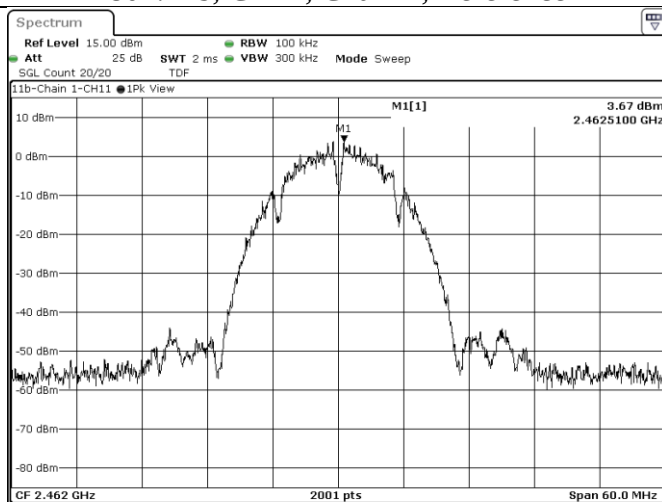
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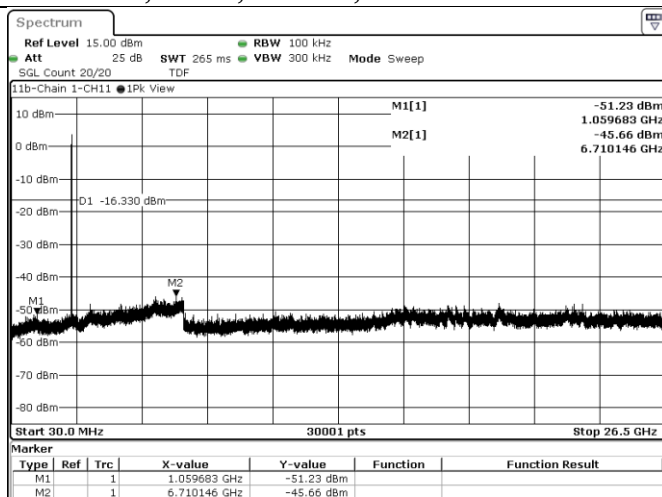
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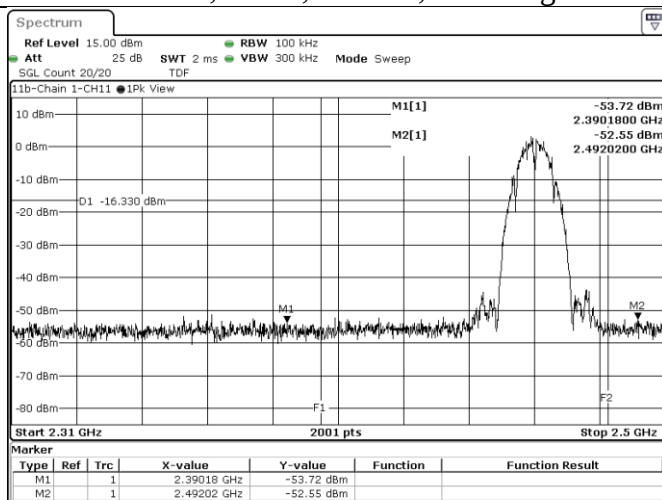
802.11b, CH11, Chain 1, Reference



802.11b, CH11, Chain 1, Conducted Emission



802.11b, CH11, Chain 1, Band edge



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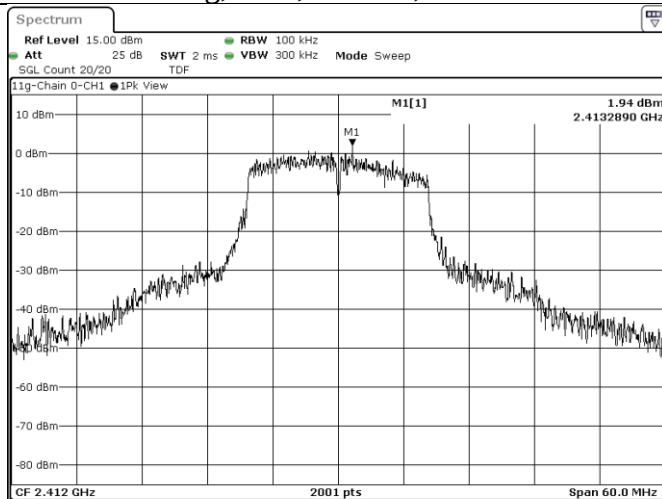
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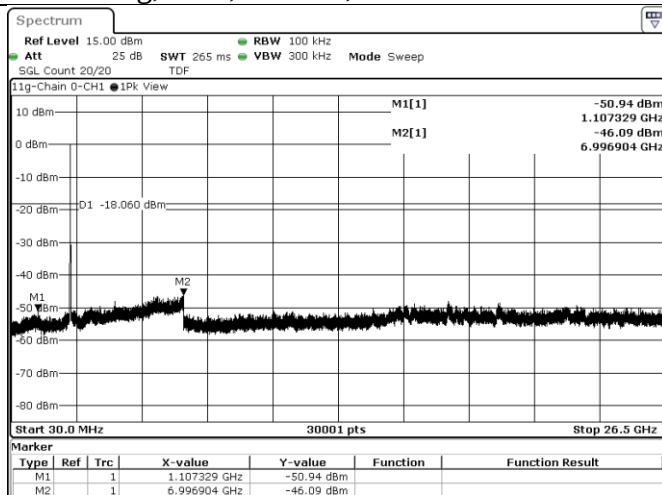
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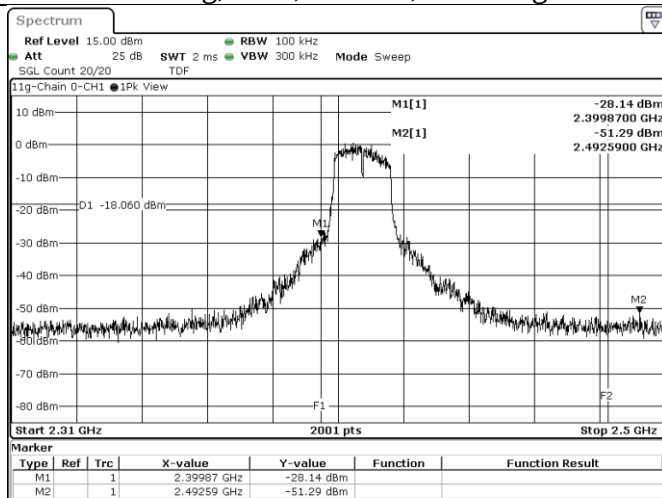
802.11g, CH1, Chain 0, Reference



802.11g, CH1, Chain 0, Conducted Emission

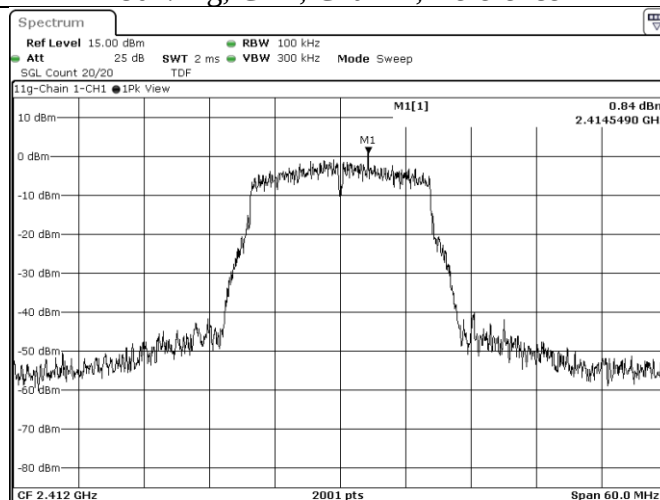


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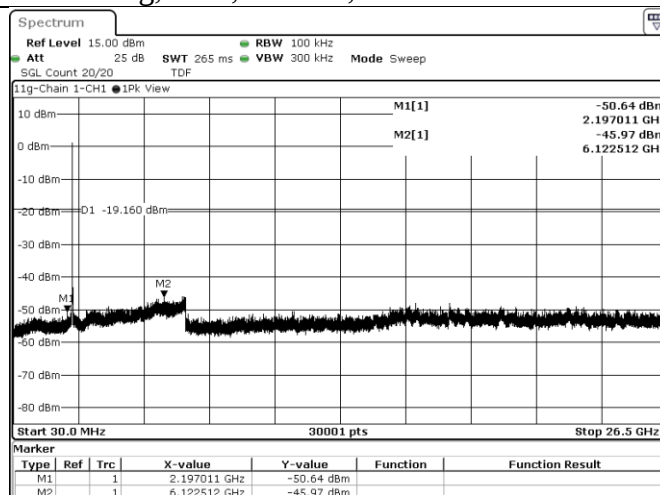




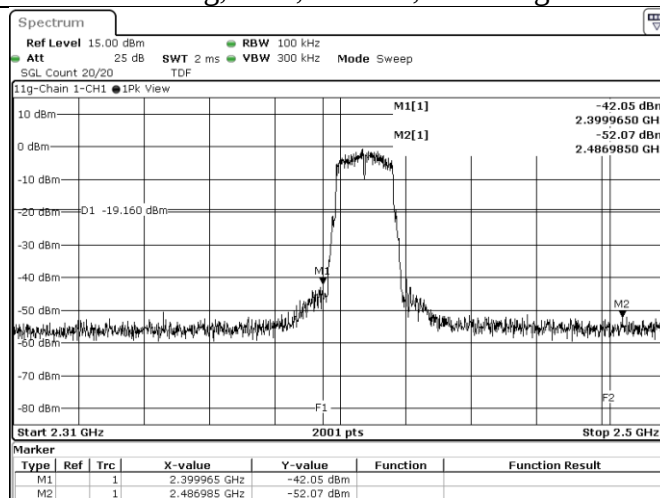
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802.11g, CH1, Chain 1, Conducted Emission

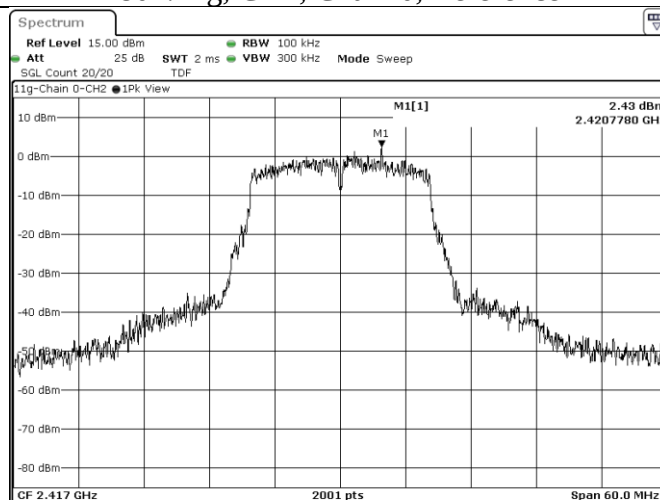


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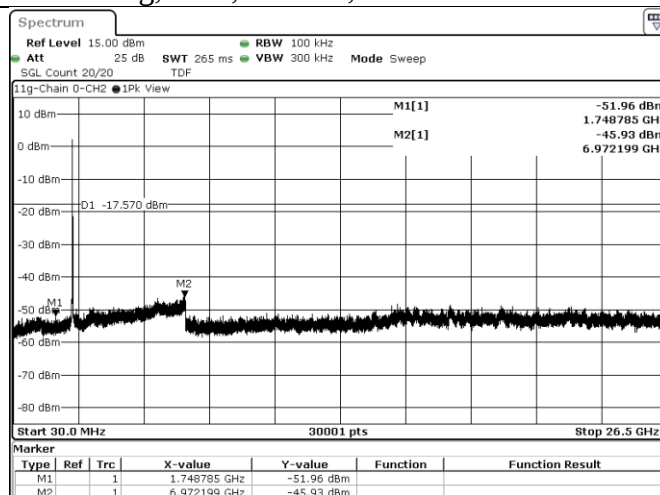




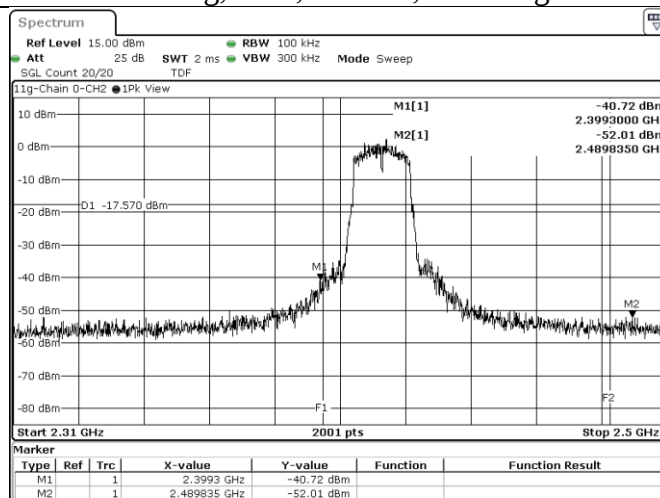
802.11g, CH2, Chain 0, Reference



802.11g, CH2, Chain 0, Conducted Emission

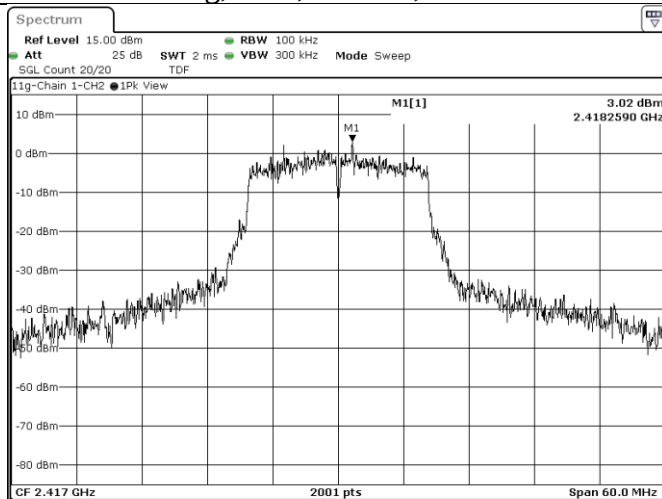


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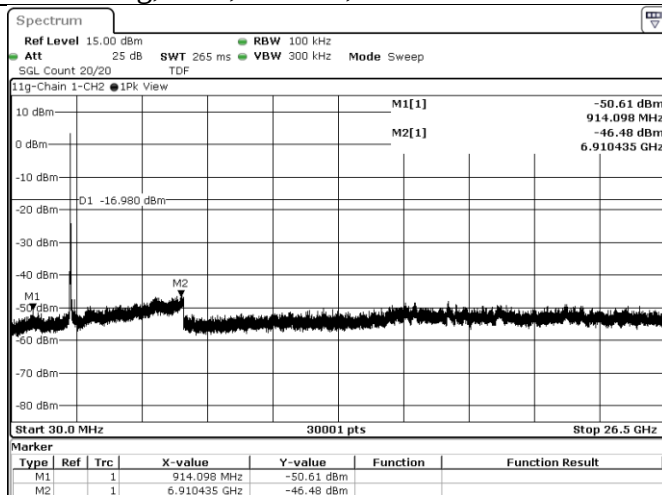




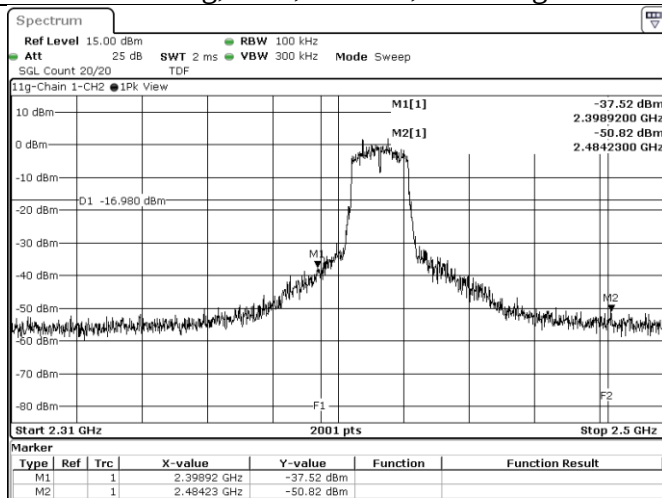
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802.11g, CH2, Chain 1, Conducted Emission

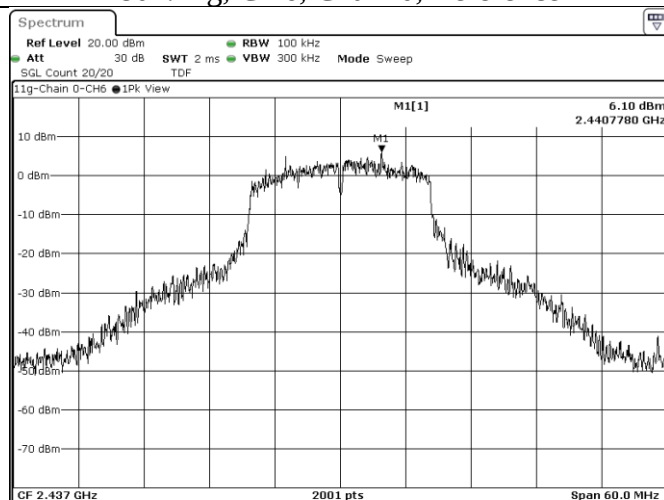


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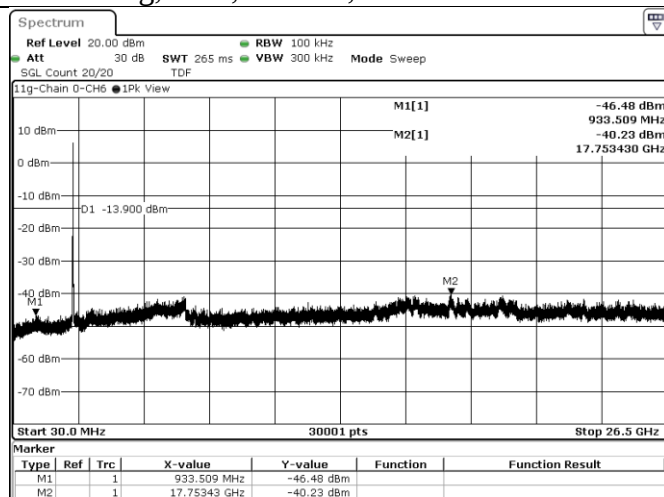




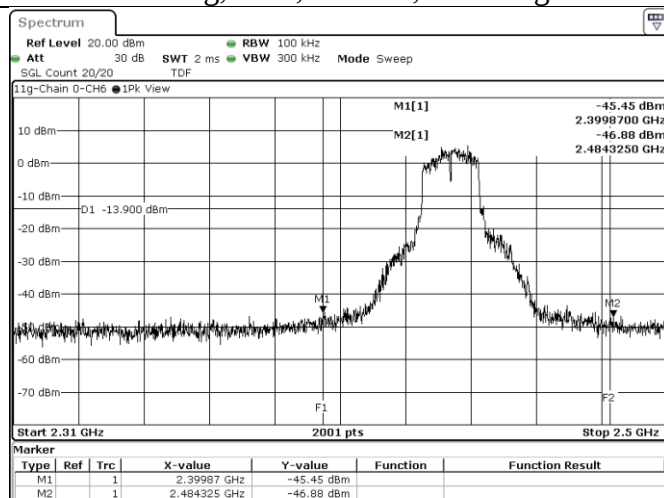
802.11g, CH6, Chain 0, Reference



802.11g, CH6, Chain 0, Conducted Emission



802.11g, CH6, Chain 0, Band edge



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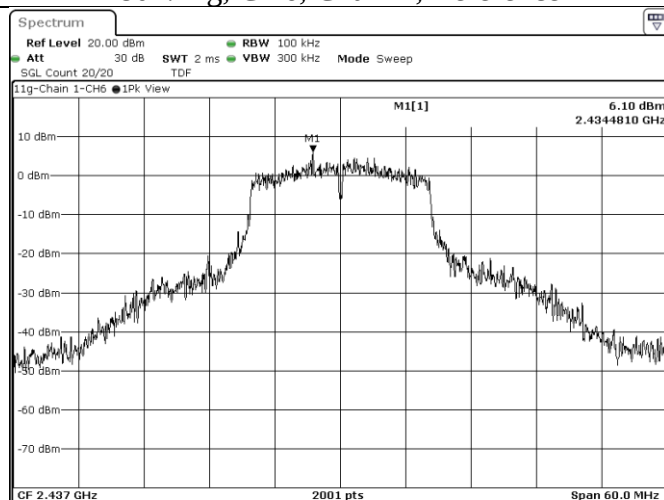
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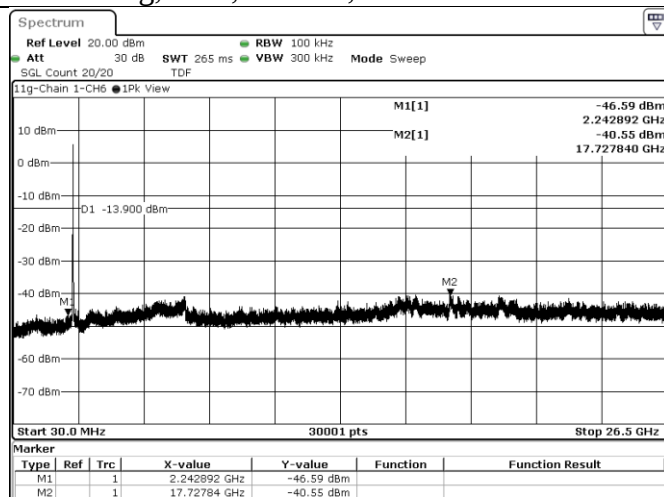
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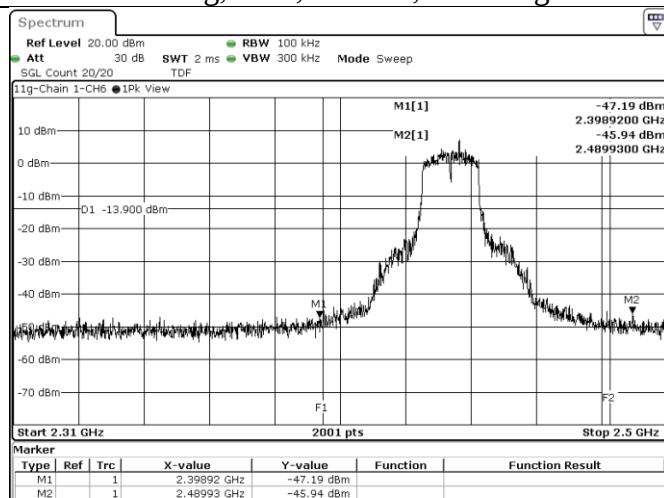
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802.11g, CH6, Chain 1, Conducted Emission

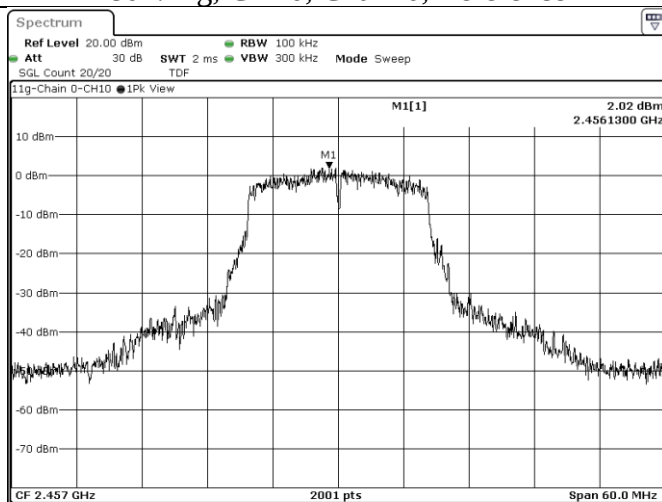


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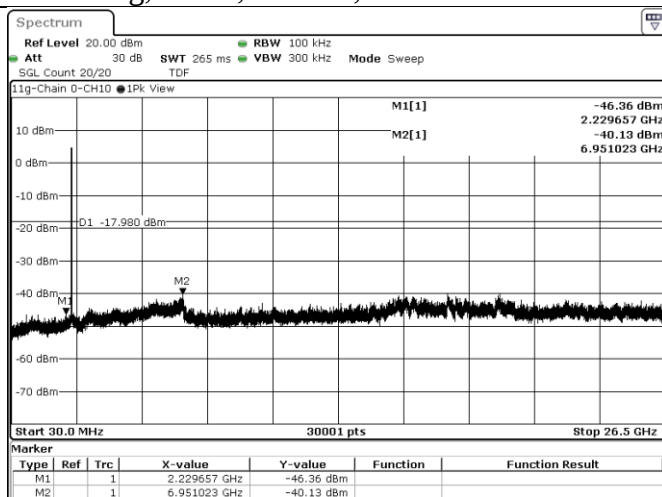




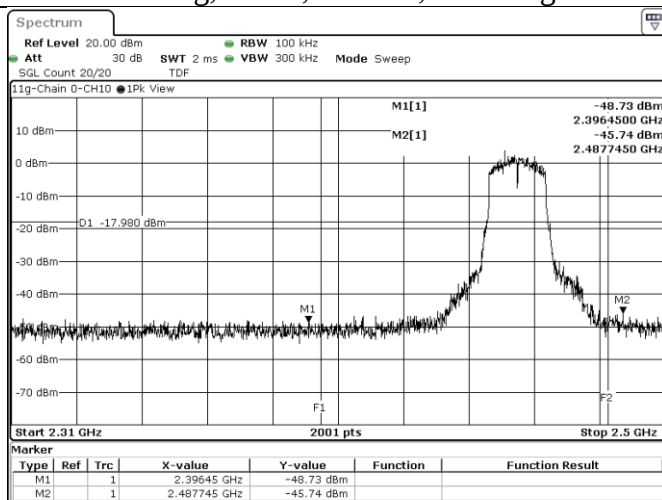
802.11g, CH10, Chain 0, Reference



802.11g, CH10, Chain 0, Conducted Emission

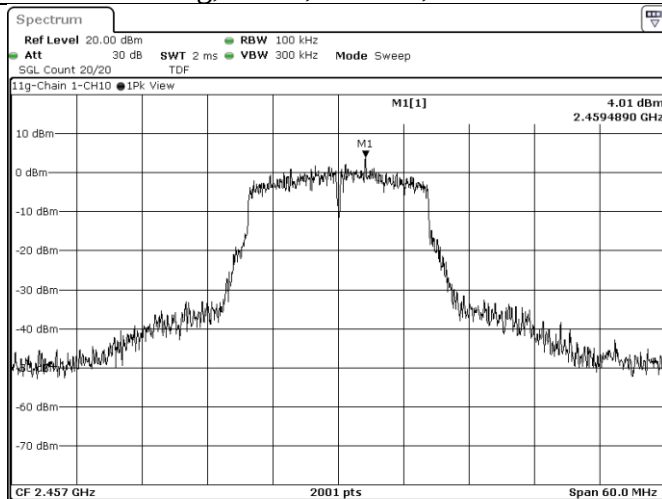


802.11g, CH10, Chain 0, Band edge

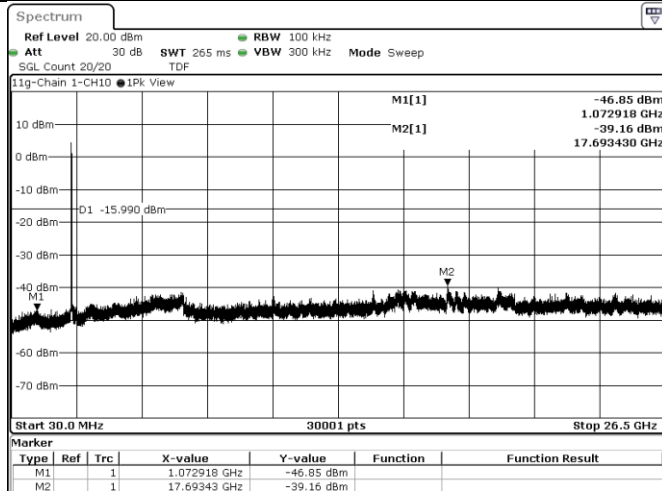




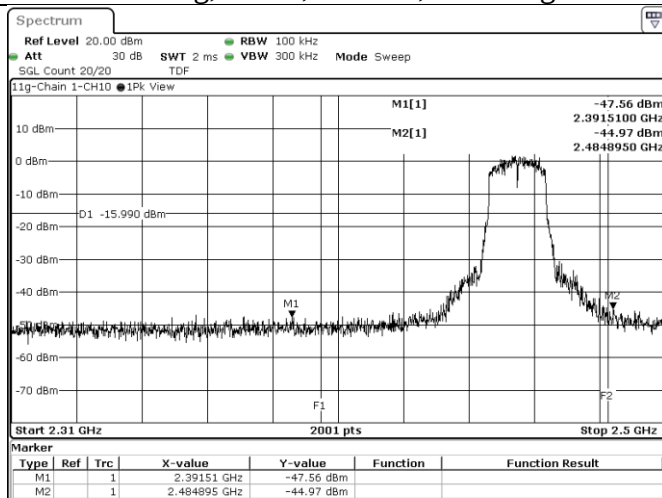
802.11g, CH10, Chain 1, Reference



802.11g, CH10, Chain 1, Conducted Emission

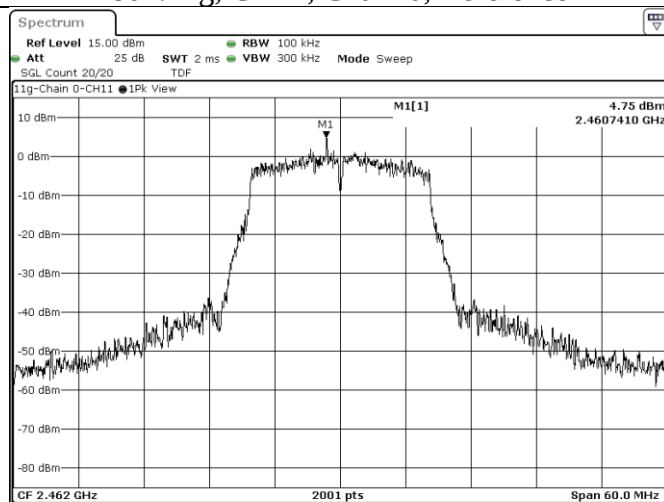


802.11g, CH10, Chain 1, Band edge

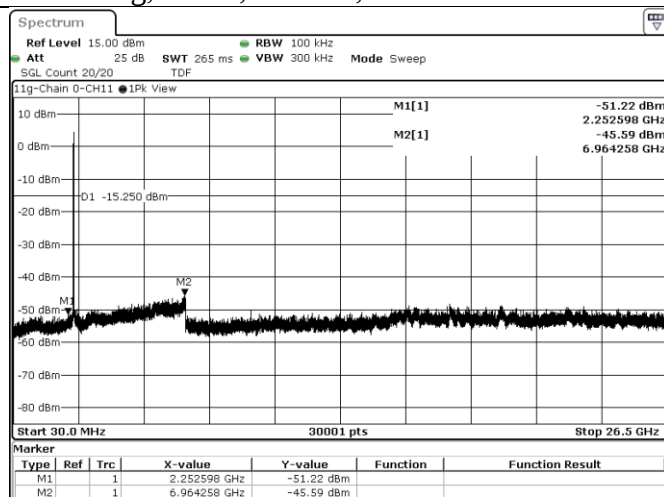




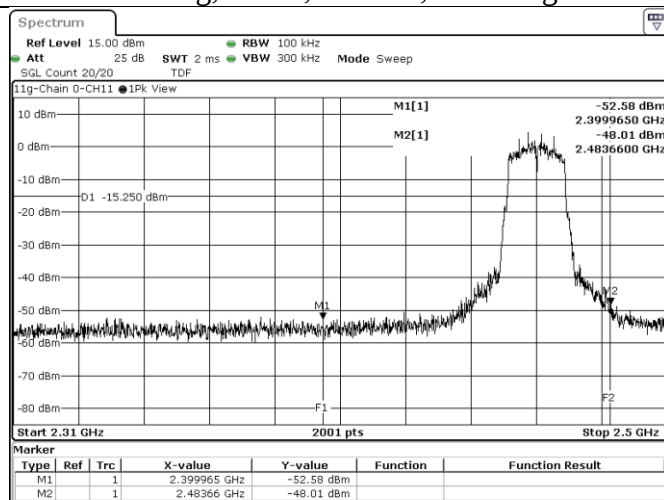
802.11g, CH11, Chain 0, Reference



802.11g, CH11, Chain 0, Conducted Emission

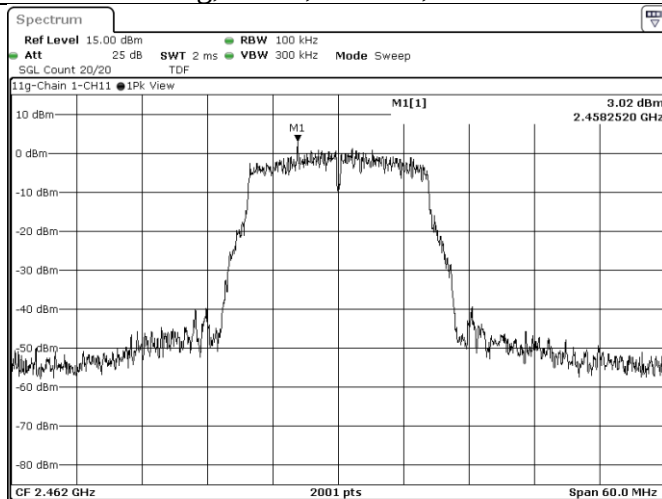


802.11g, CH11, Chain 0, Band edge

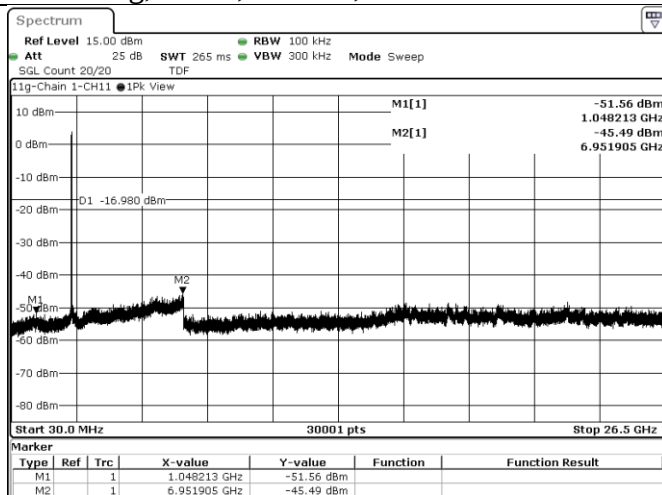




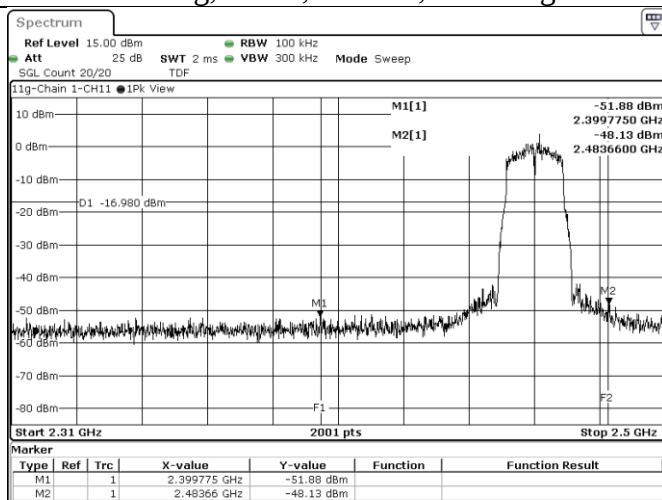
802.11g, CH11, Chain 1, Reference



802.11g, CH11, Chain 1, Conducted Emission

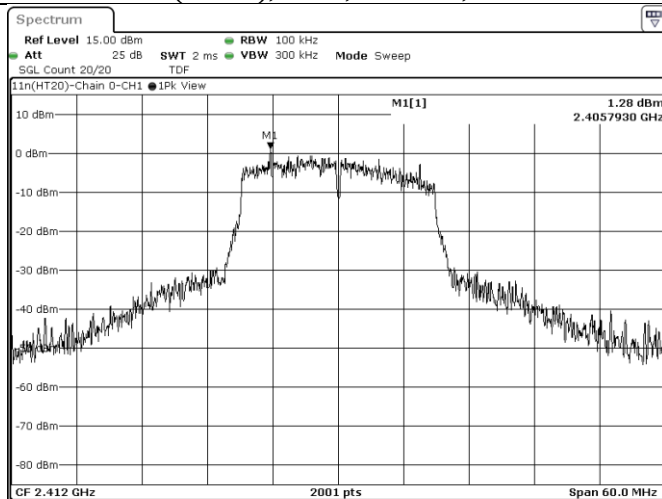


802.11g, CH11, Chain 1, Band edge

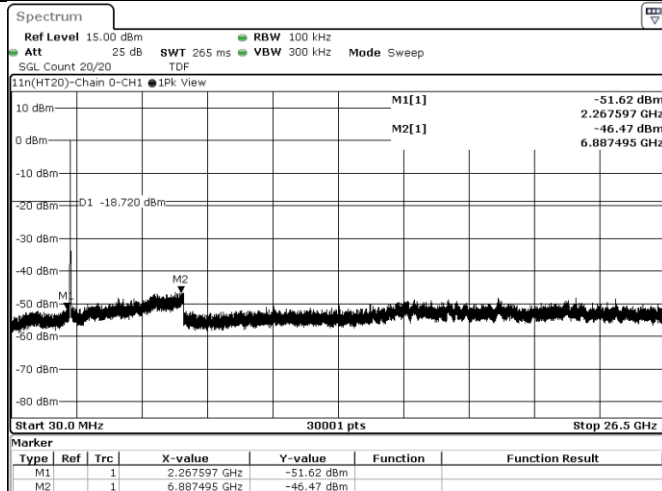




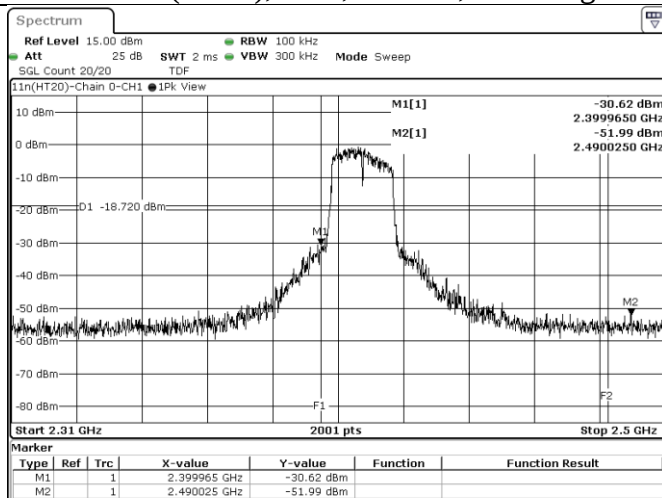
802.11n(HT20), CH1, Chain 0, Reference



802.11n(HT20), CH1, Chain 0, Conducted Emission

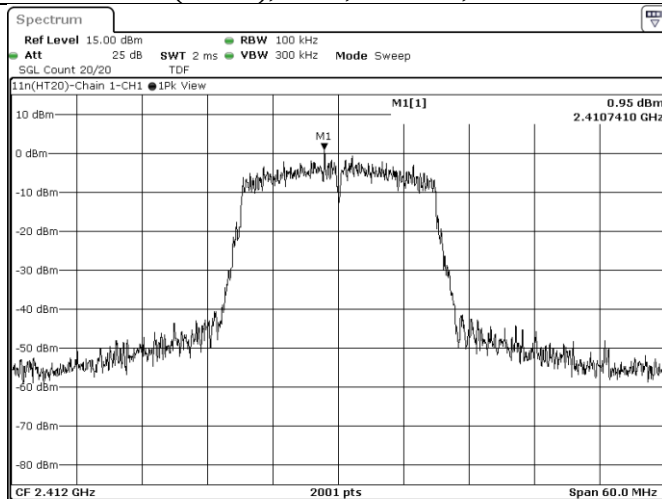


802.11n(HT20), CH1, Chain 0, Band edge

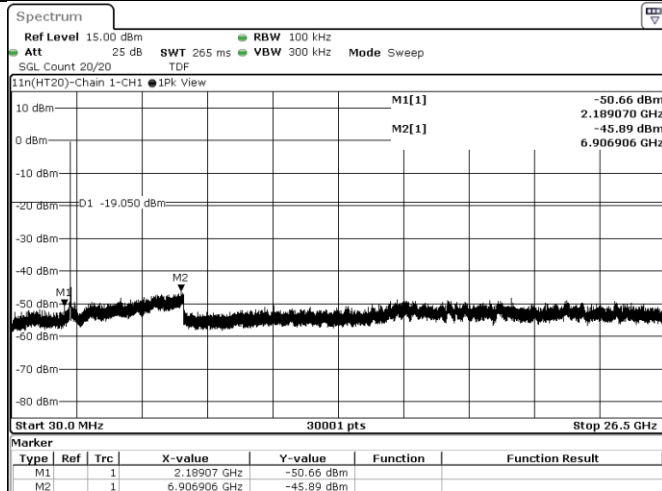




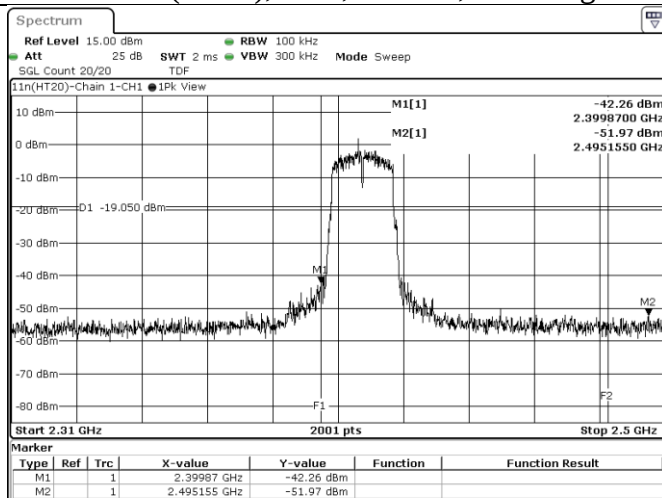
802.11n(HT20), CH1, Chain 1, Reference



802.11n(HT20), CH1, Chain 1, Conducted Emission

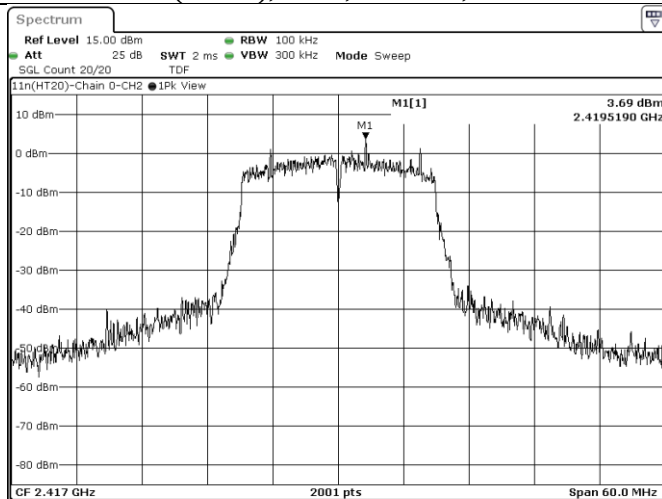


802.11n(HT20), CH1, Chain 1, Band edge

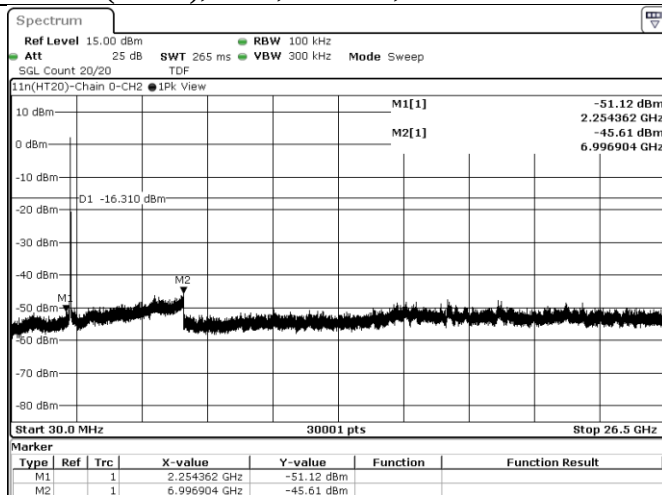




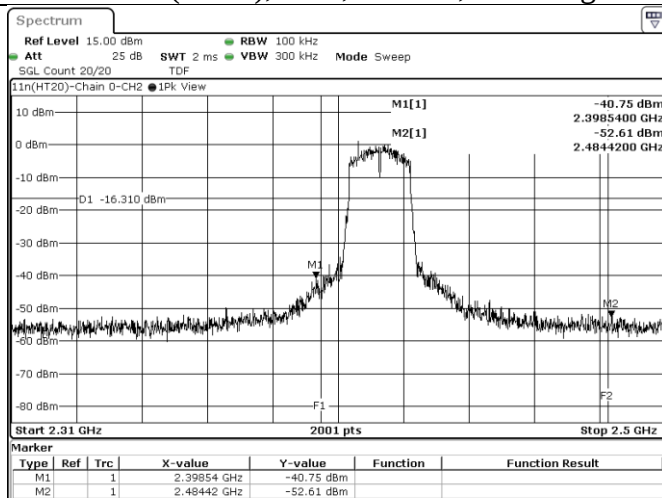
802.11n(HT20), CH2, Chain 0, Reference



802.11n(HT20), CH2, Chain 0, Conducted Emission

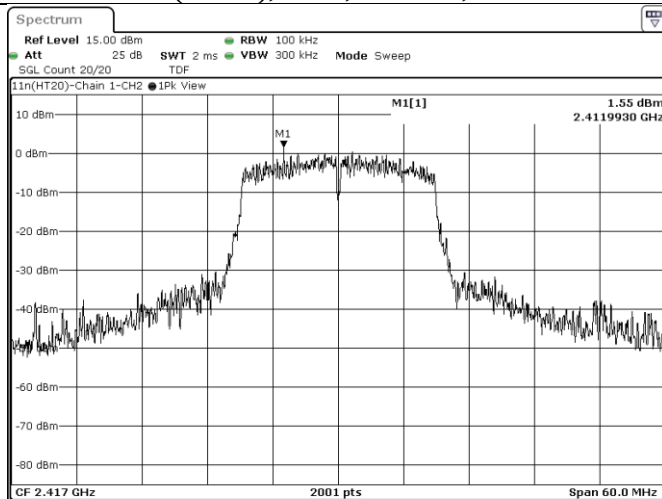


802.11n(HT20), CH2, Chain 0, Band edge

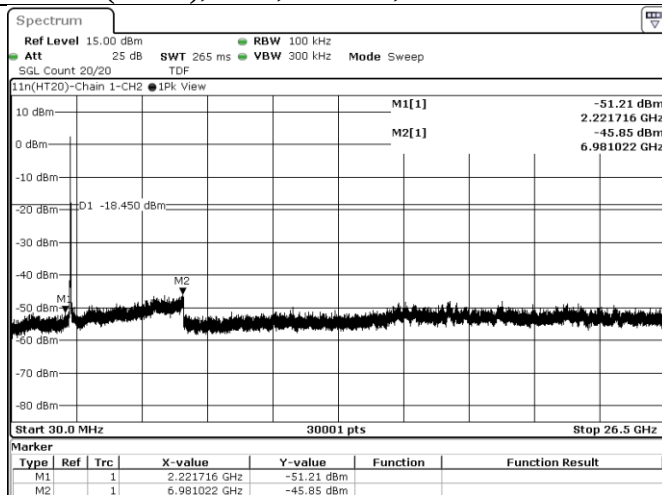




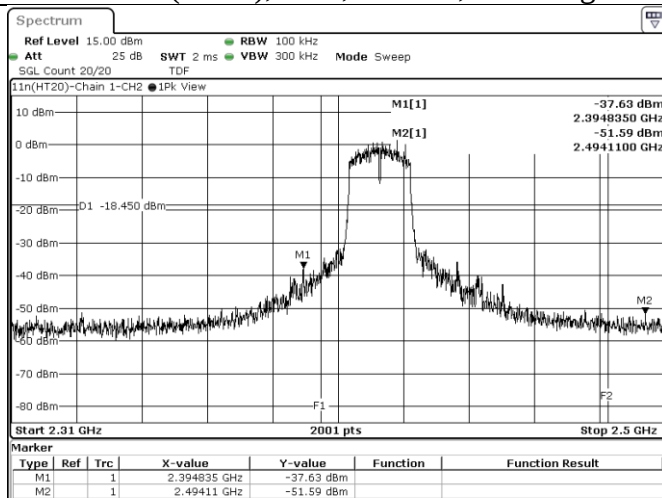
802.11n(HT20), CH2, Chain 1, Reference



802.11n(HT20), CH2, Chain 1, Conducted Emission

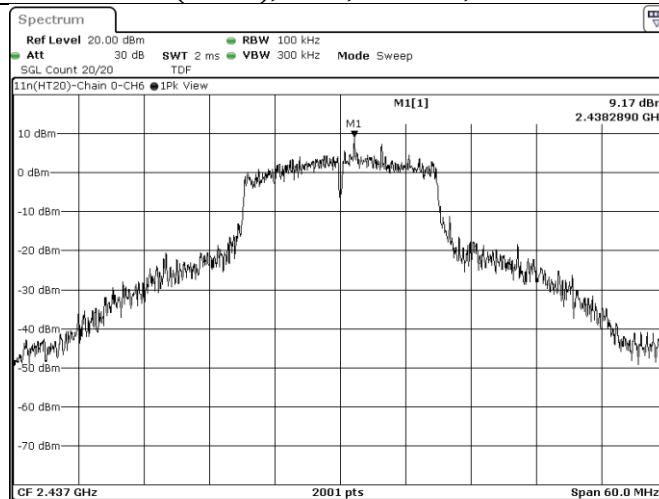


802.11n(HT20), CH2, Chain 1, Band edge

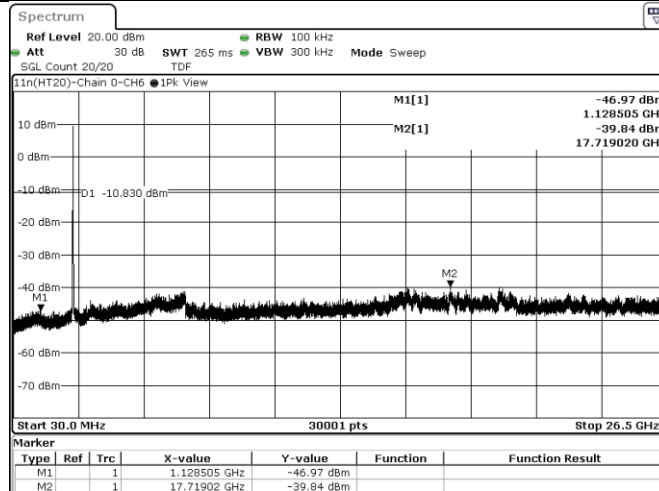




802.11n(HT20), CH6, Chain 0, Reference



802.11n(HT20), CH6, Chain 0, Conducted Emission



802.11n(HT20), CH6, Chain 0, Band edge

