

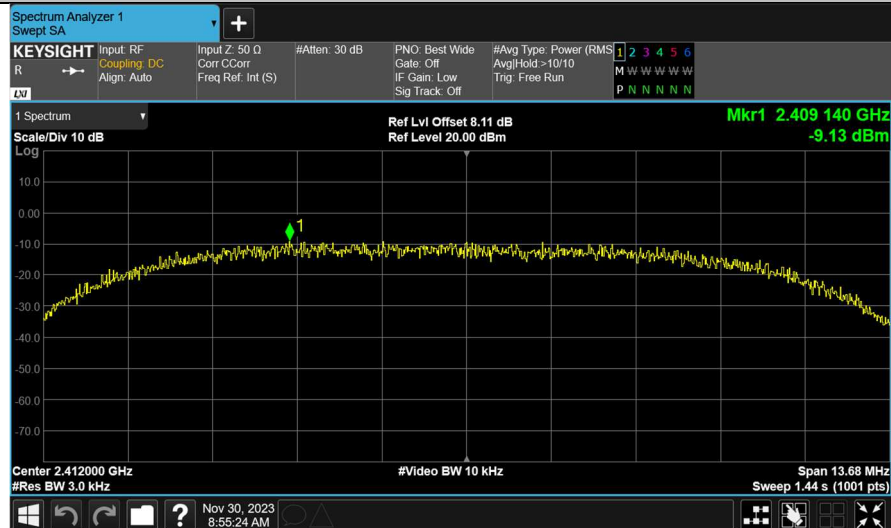
Appendix A: Test Results of 2.4GHz Wi-Fi

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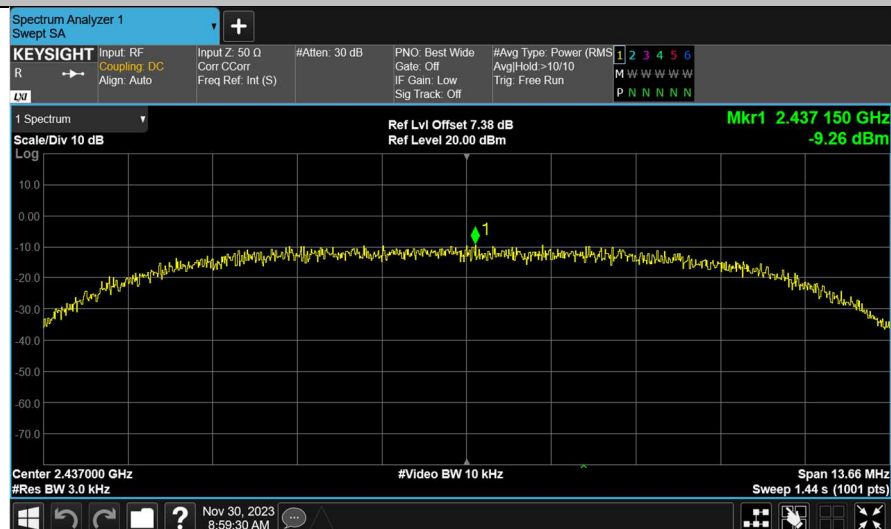
Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.13	≤8.00	PASS
		2437	-9.26	≤8.00	PASS
		2462	-8.19	≤8.00	PASS
11G	Ant1	2412	-10.47	≤8.00	PASS
		2437	-12.28	≤8.00	PASS
		2462	-11.99	≤8.00	PASS
11N20SISO	Ant1	2412	-12.81	≤8.00	PASS
		2437	-12.26	≤8.00	PASS
		2462	-11.62	≤8.00	PASS

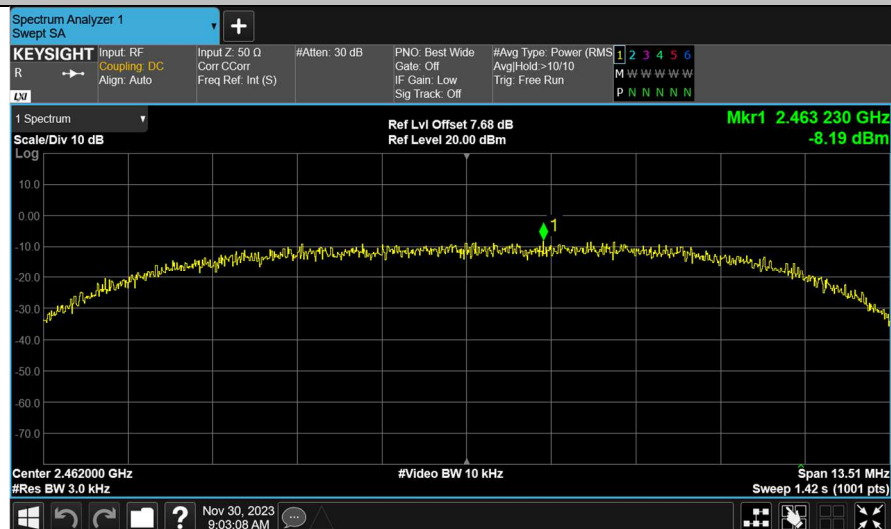
11B_Ant1_2412



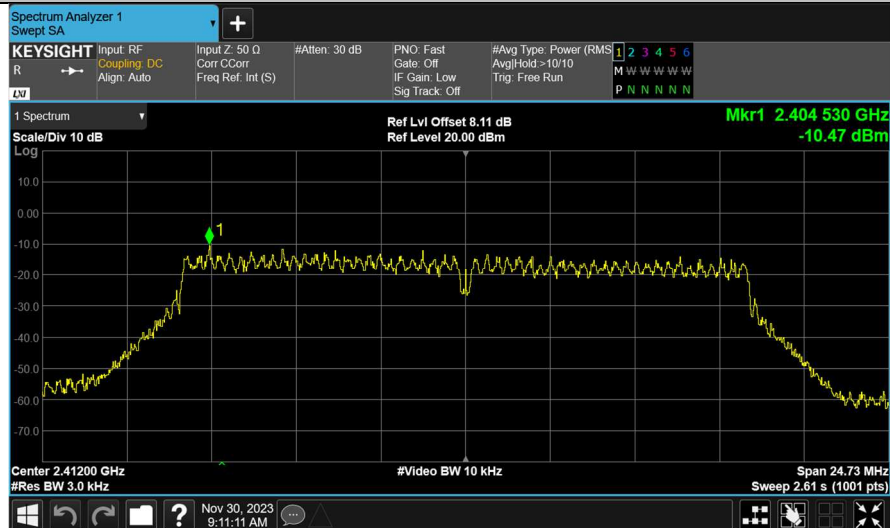
11B_Ant1_2437



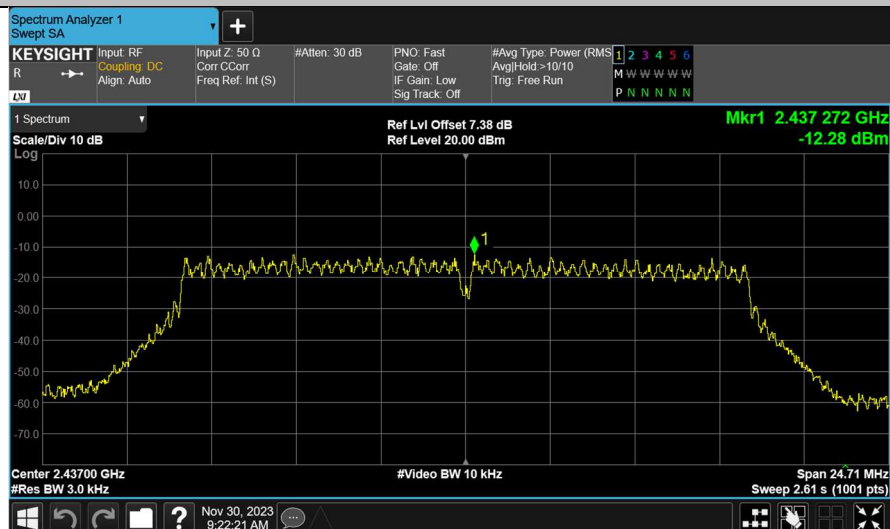
11B_Ant1_2462



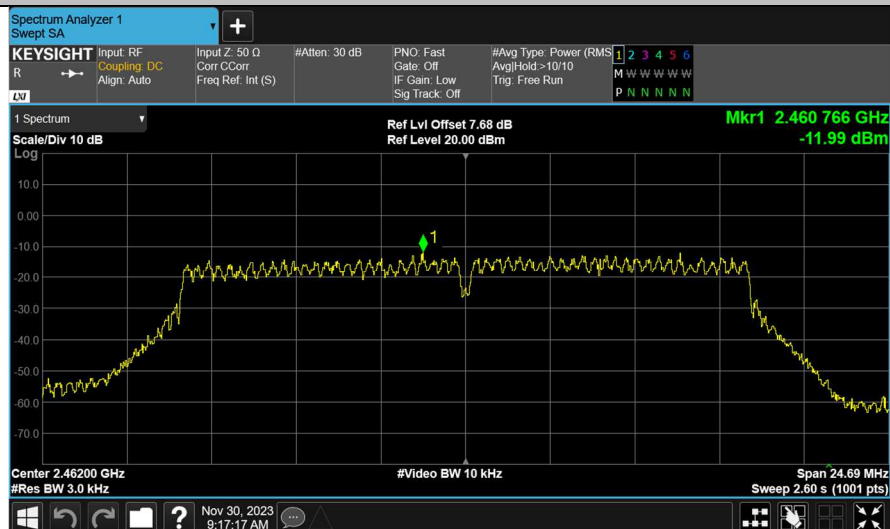
11G_Ant1_2412



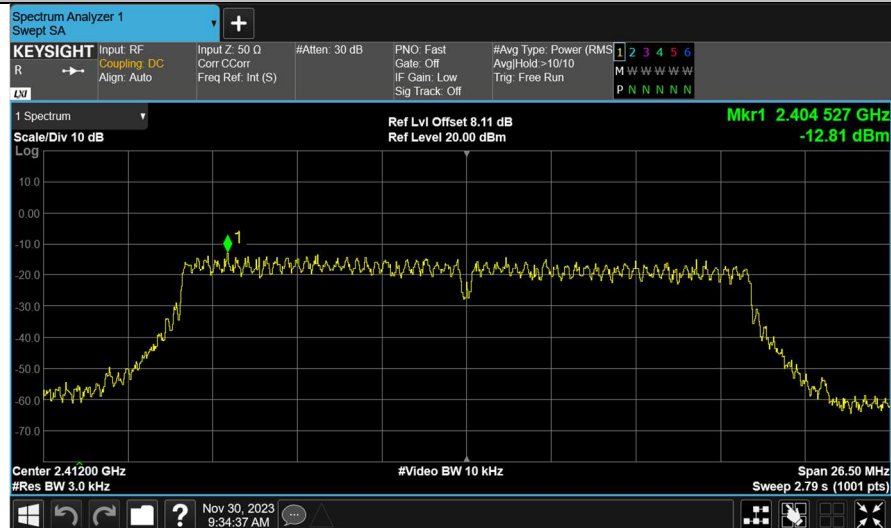
11G_Ant1_2437



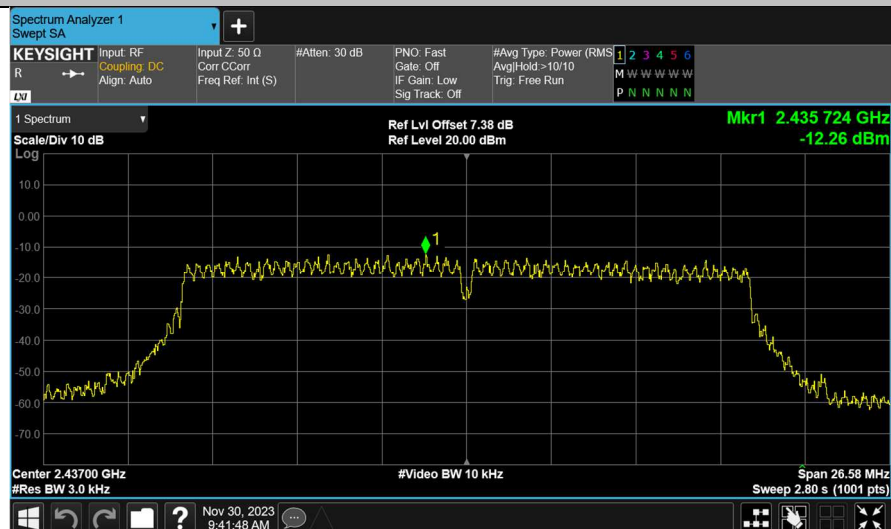
11G_Ant1_2462



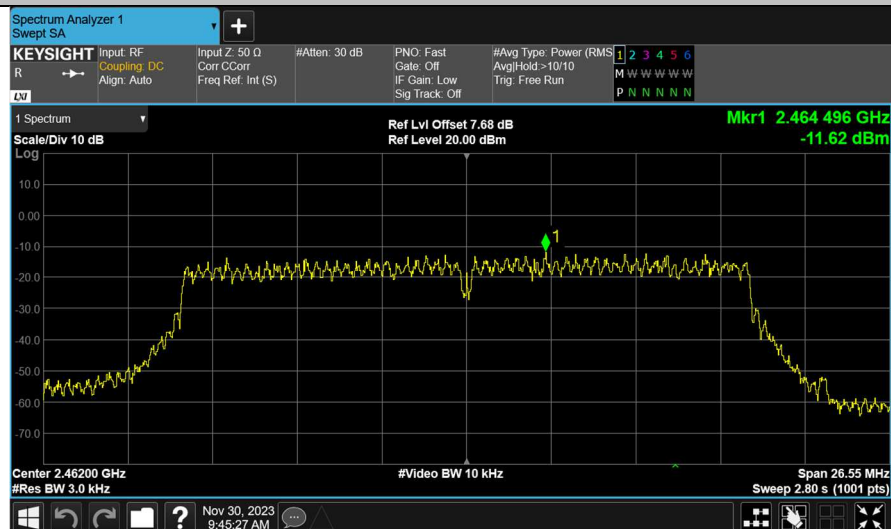
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



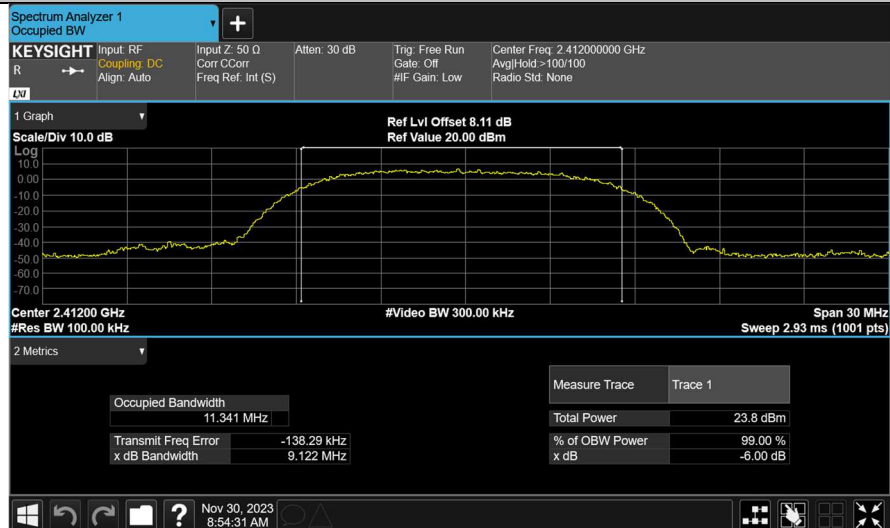
11N20SISO_Ant1_2462



Appendix A.2: Test Results of 6dB Bandwidth

Test Mode	Antenna	Channel	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.122	0.5	PASS
		2437	9.109	0.5	PASS
		2462	9.008	0.5	PASS
11G	Ant1	2412	16.49	0.5	PASS
		2437	16.47	0.5	PASS
		2462	16.46	0.5	PASS
11N20SISO	Ant1	2412	17.67	0.5	PASS
		2437	17.72	0.5	PASS
		2462	17.70	0.5	PASS

11B_Ant1_2412



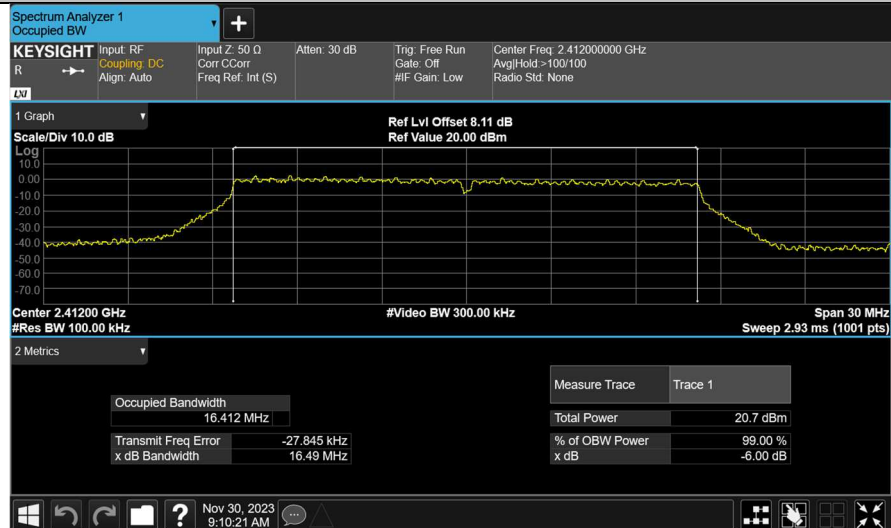
11B_Ant1_2437



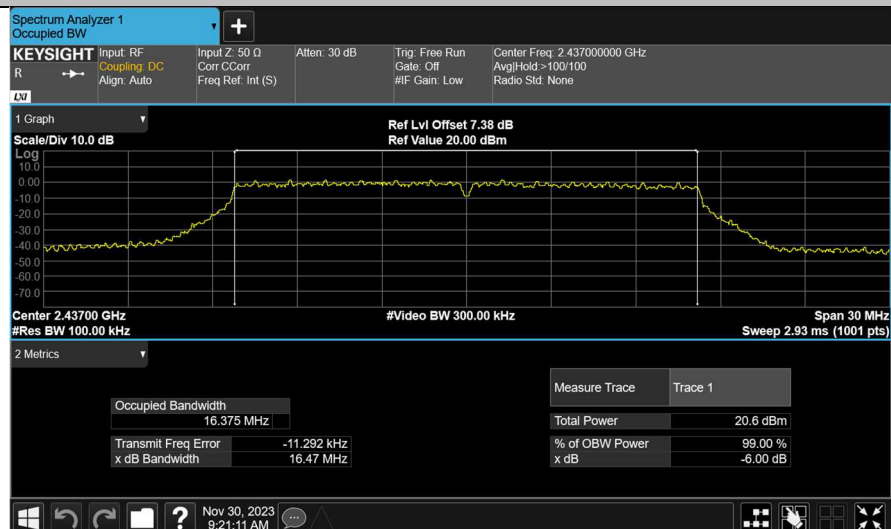
11B_Ant1_2462



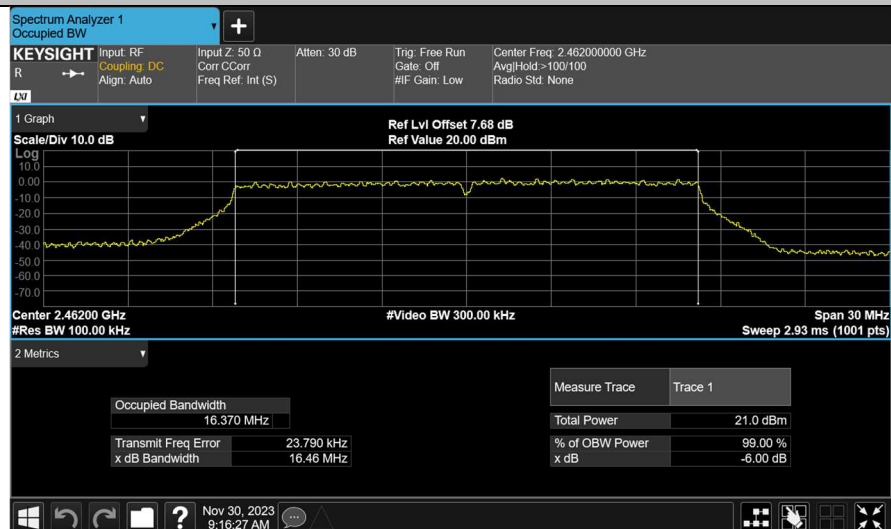
11G_Ant1_2412



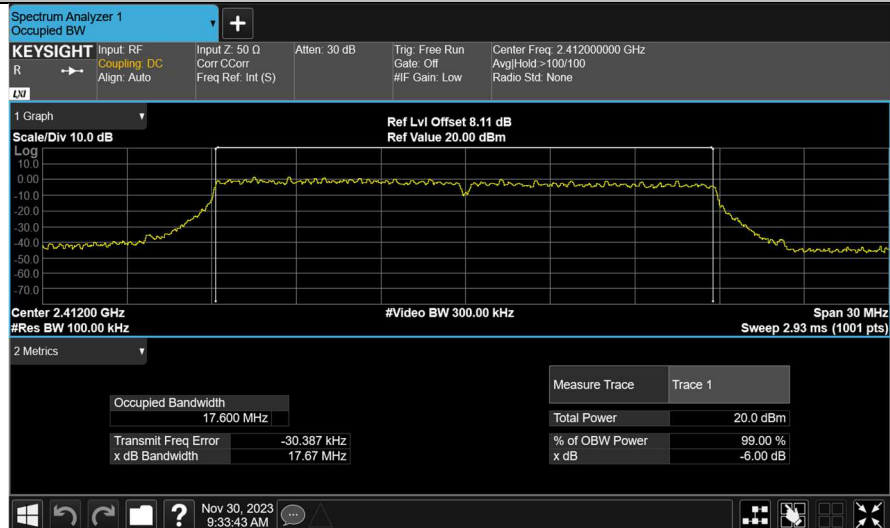
11G_Ant1_2437



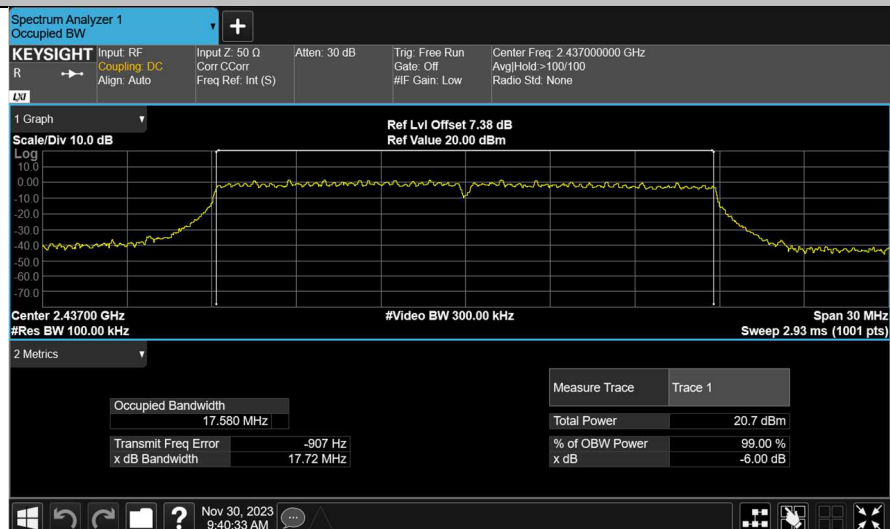
11G_Ant1_2462



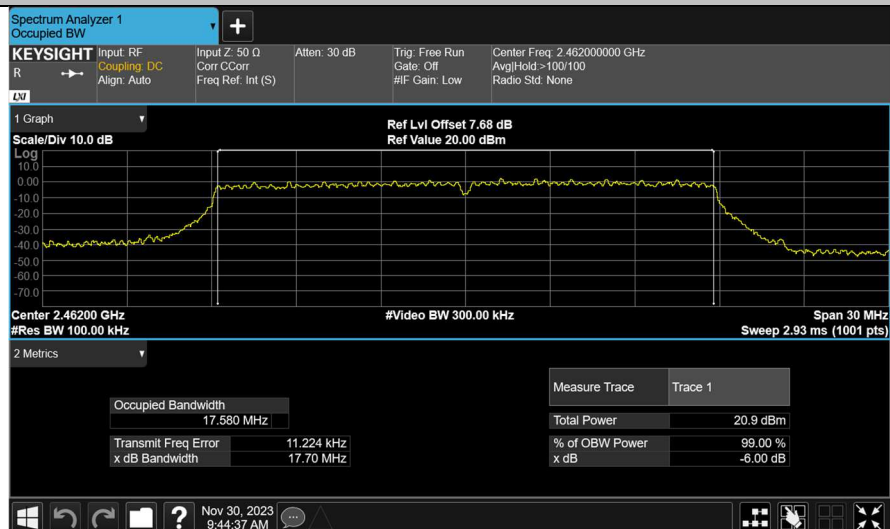
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

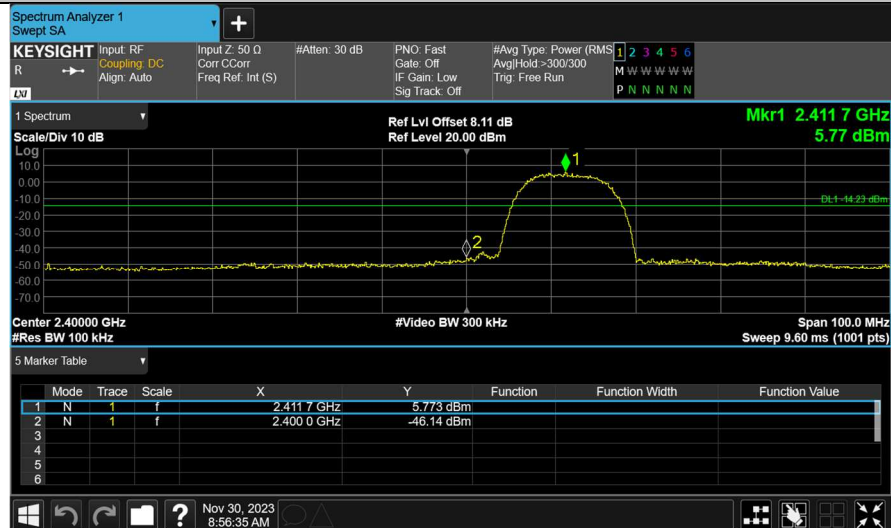


Appendix A.3: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

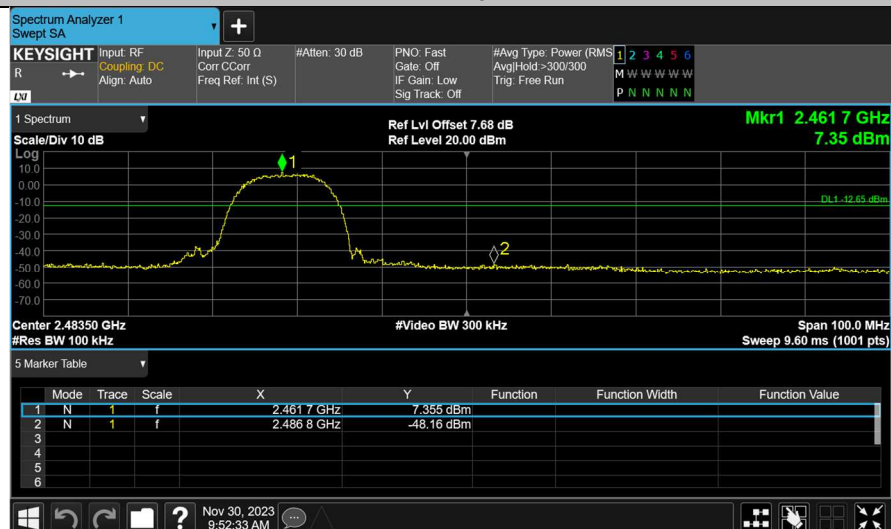
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.77	-46.14	≤-14.23	PASS
		High	2462	7.35	-48.16	≤-12.65	PASS
11G	Ant1	Low	2412	2.20	-38.36	≤-17.80	PASS
		High	2462	2.30	-46.42	≤-17.70	PASS
11N20SISO	Ant1	Low	2412	1.64	-38.88	≤-18.36	PASS
		High	2462	2.51	-46.98	≤-17.49	PASS

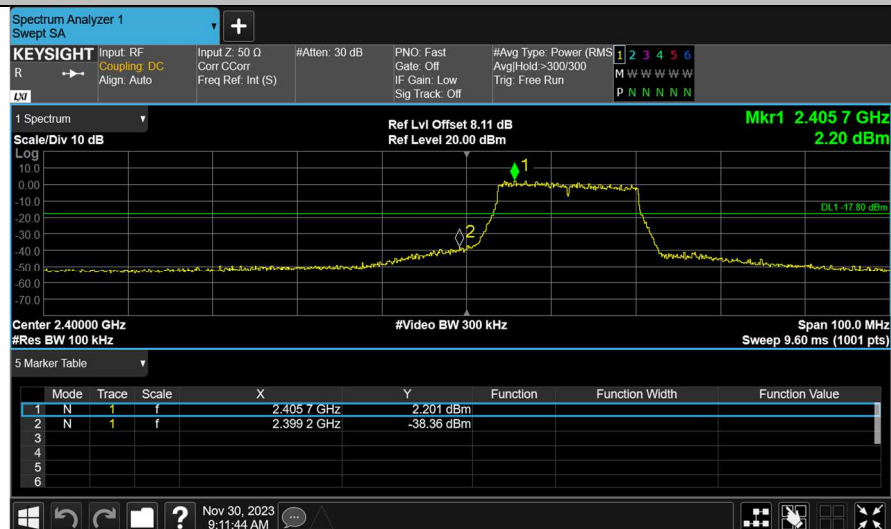
11B_Ant1_Low_2412



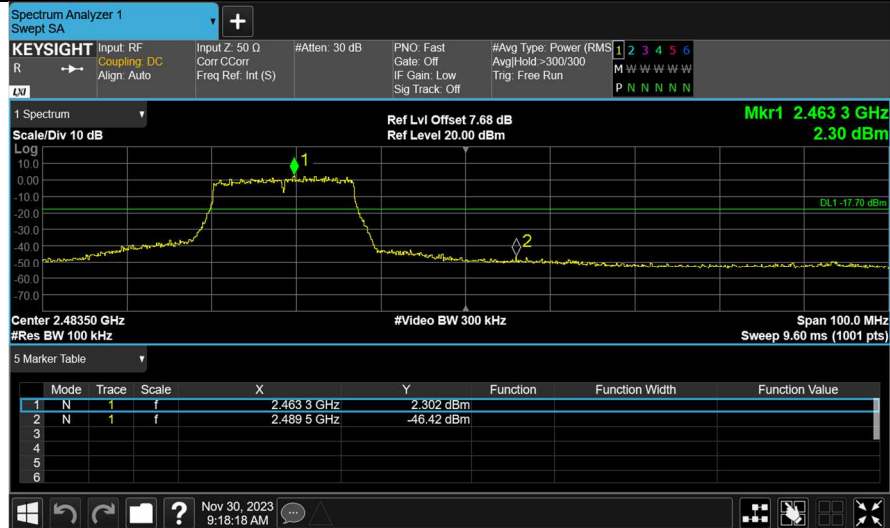
11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



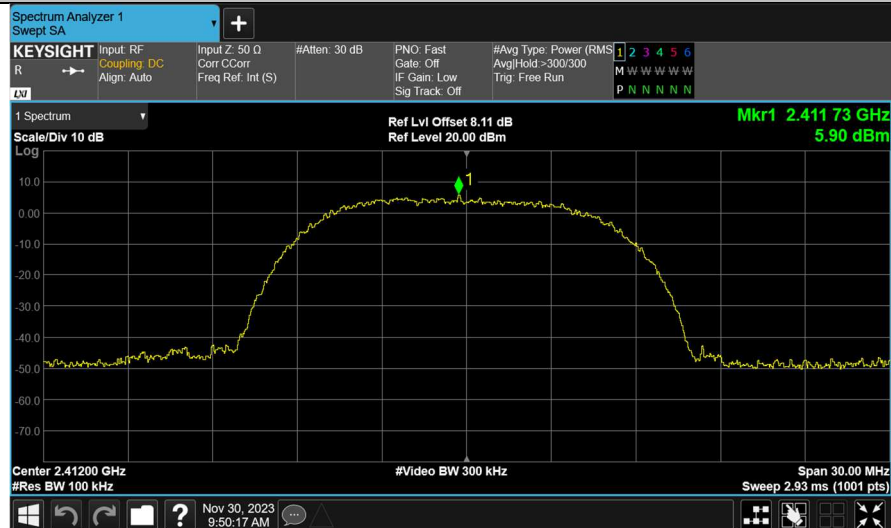
11N20SISO_Ant1_High_2462



Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.90	---	---	---
			30~26500	---	-43.75	≤-14.10	PASS
		2437	Reference	6.76	---	---	---
			30~26500	---	-44.51	≤-13.24	PASS
		2462	Reference	7.19	---	---	---
			30~26500	---	-43.86	≤-12.81	PASS
11G	Ant1	2412	Reference	2.15	---	---	---
			30~26500	---	-43.60	≤-17.85	PASS
		2437	Reference	1.56	---	---	---
			30~26500	---	-44.38	≤-18.45	PASS
		2462	Reference	2.53	---	---	---
			30~26500	---	-44.10	≤-17.47	PASS
11N20SISO	Ant1	2412	Reference	1.63	---	---	---
			30~26500	---	-42.93	≤-18.38	PASS
		2437	Reference	1.63	---	---	---
			30~26500	---	-44.07	≤-18.37	PASS
		2462	Reference	2.45	---	---	---
			30~26500	---	-43.77	≤-17.55	PASS

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~26500



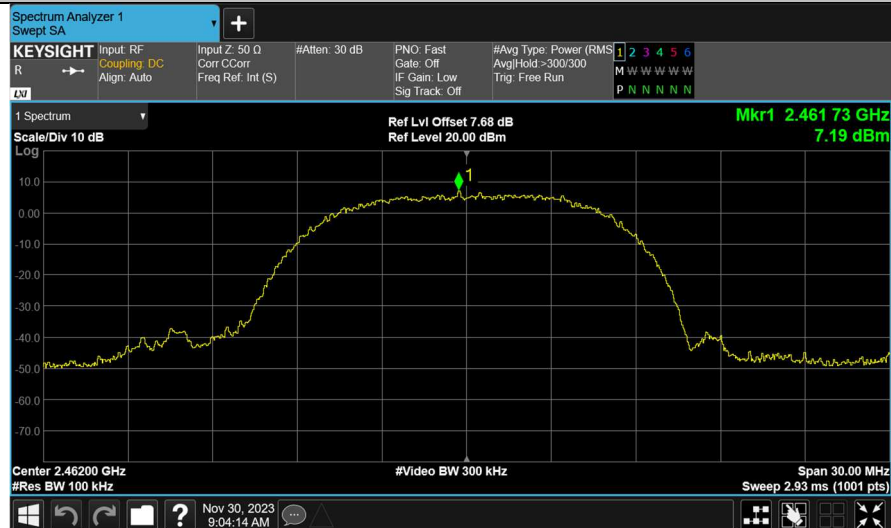
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~26500



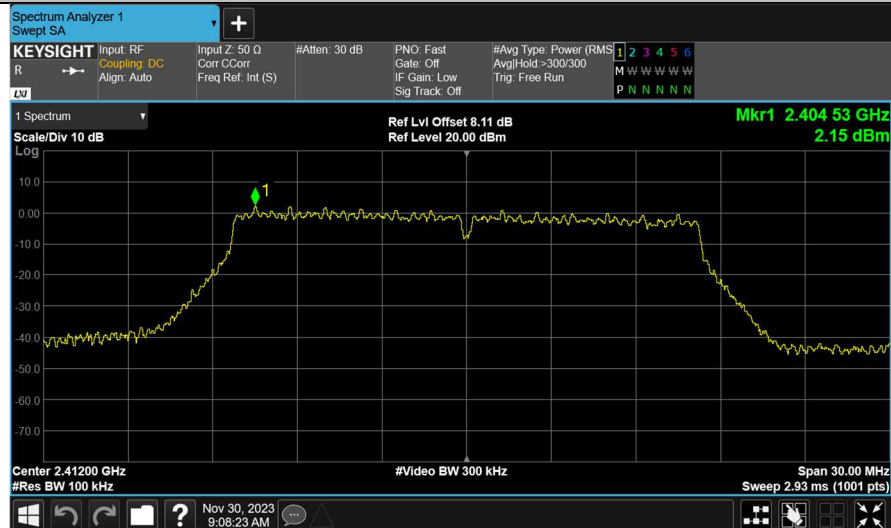
11B_Ant1_2462_0~Reference



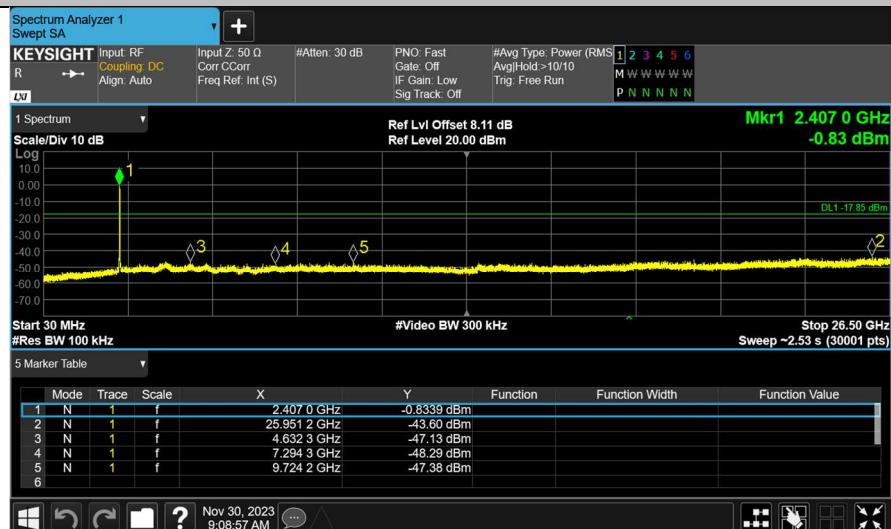
11B_Ant1_2462_30~26500



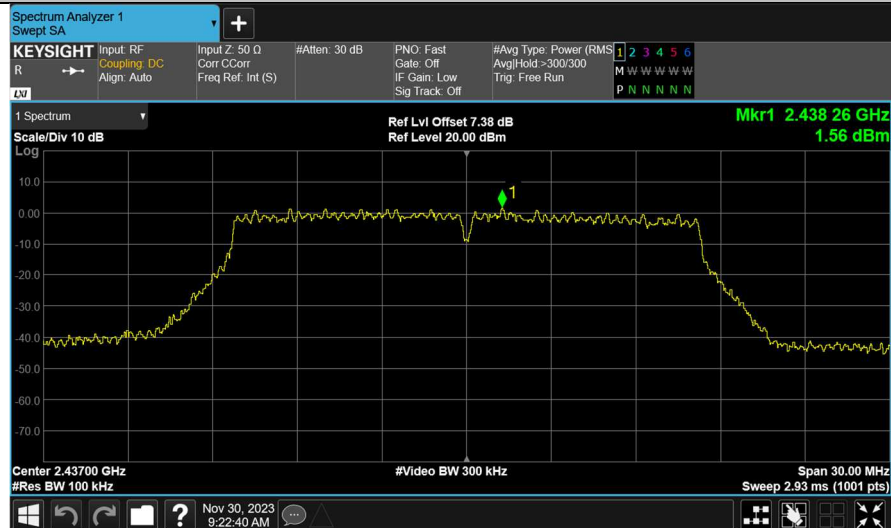
11G_Ant1_2412_0~Reference



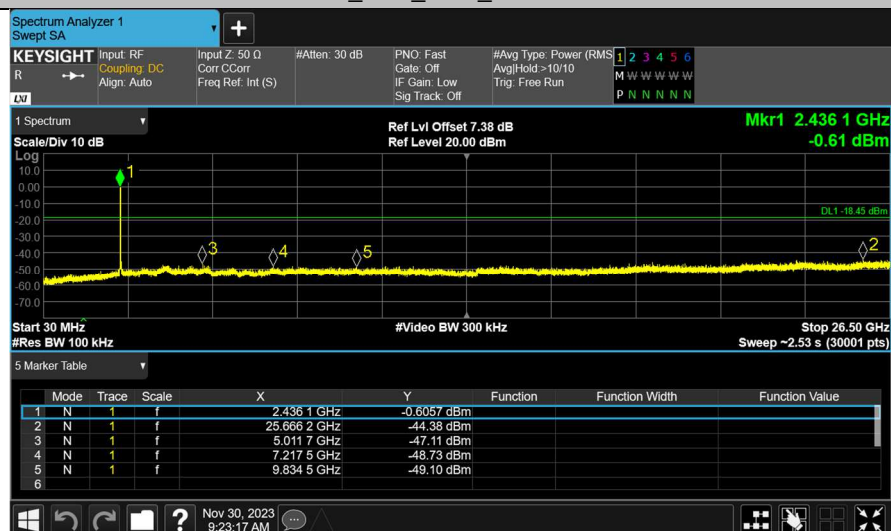
11G_Ant1_2412_30~26500



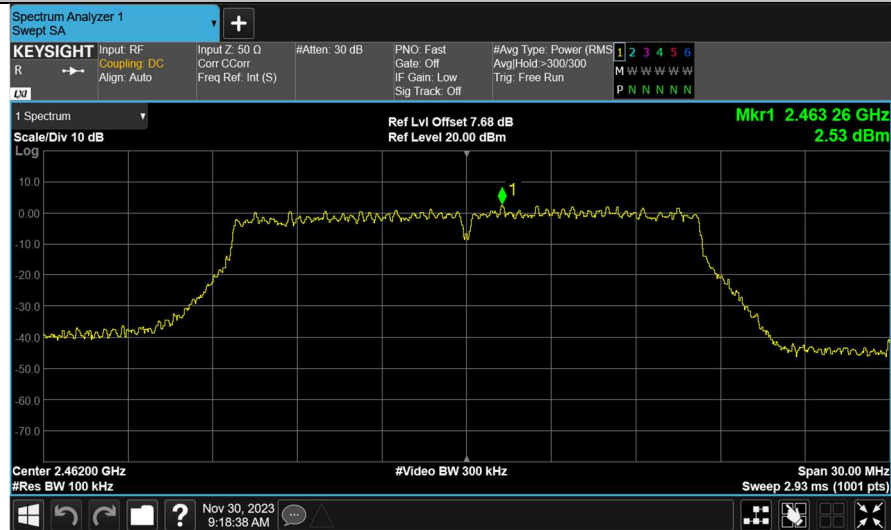
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~26500



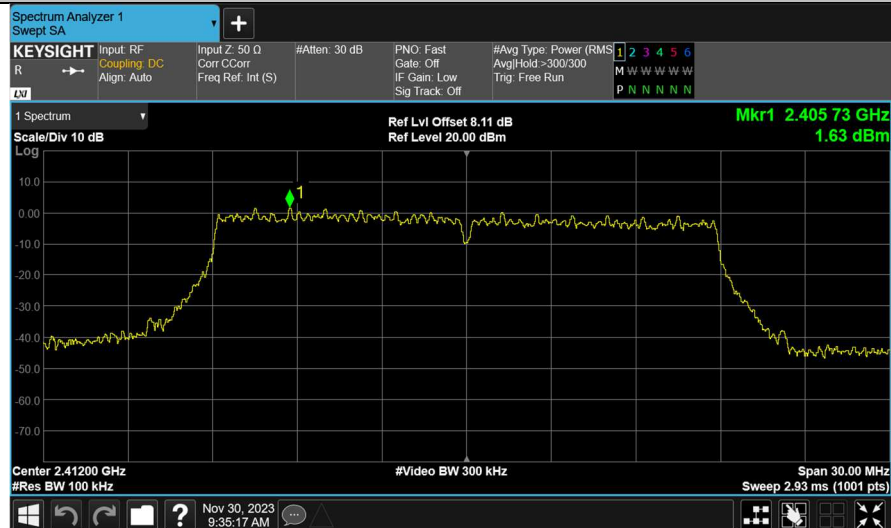
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~26500



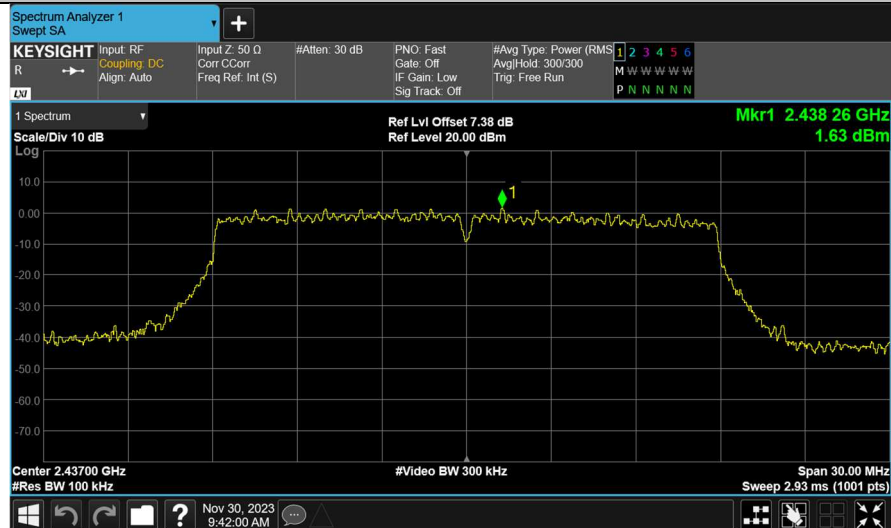
11N20SISO_Ant1_2412_0~Reference



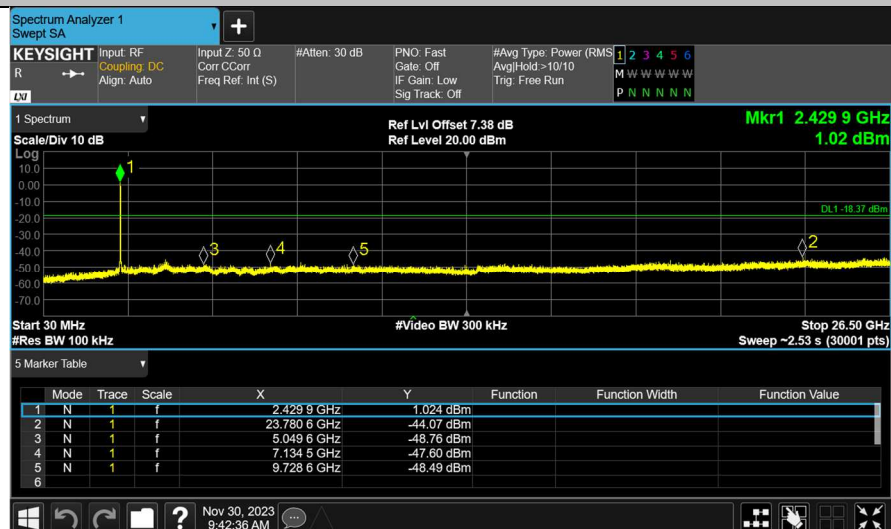
11N20SISO_Ant1_2412_30~26500



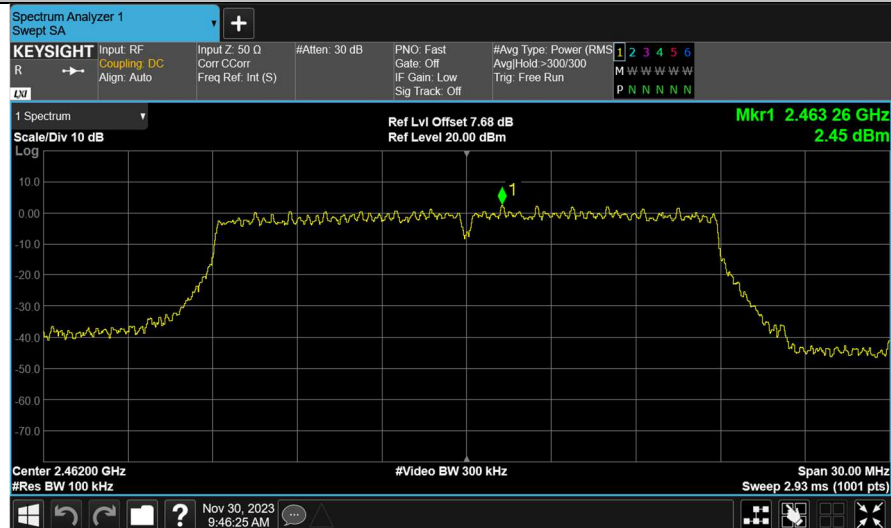
11N20SISO_Ant1_2437_0~Reference



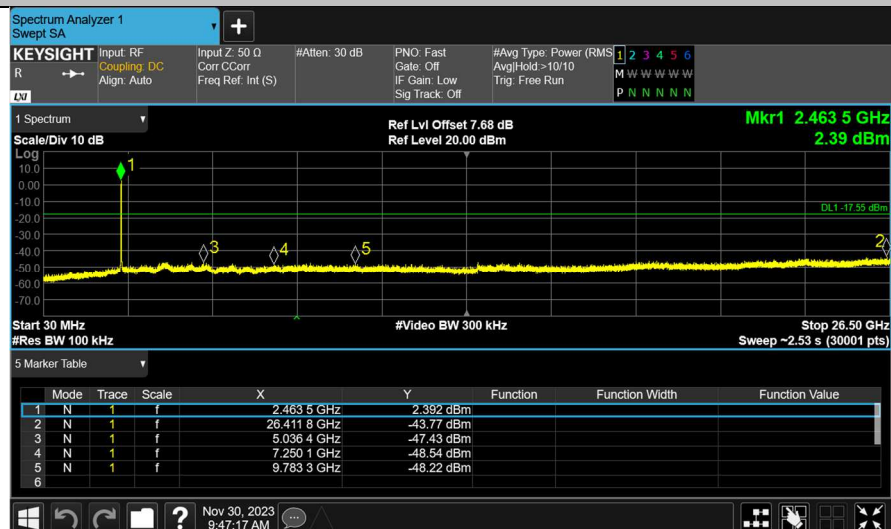
11N20SISO_Ant1_2437_30~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~26500



Appendix A.4: Test Results of Radiated Spurious Emissions and Restricted Bands

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC_Part 15C_3m

Power: AC 120V/60Hz

Humidity: 47 %

EUT: Wireless Borescope

Distance: 3m

M/N: BR450W-D

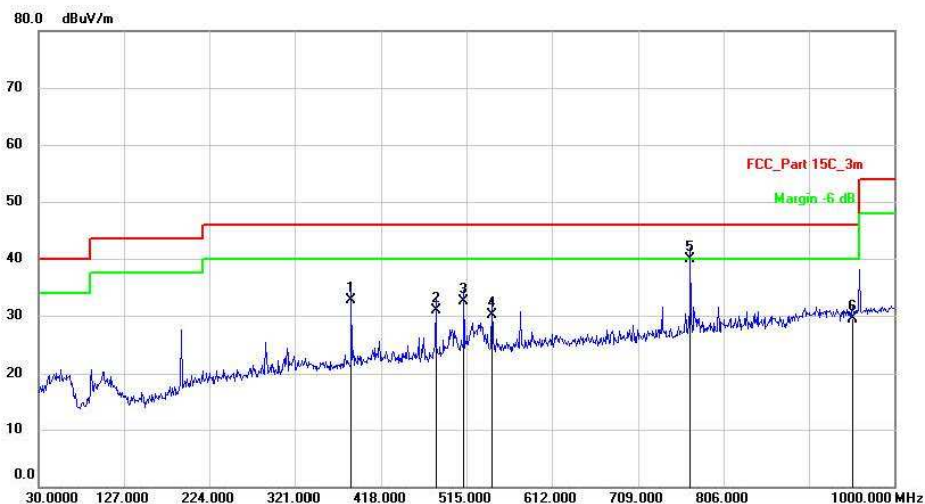
Mode: TX(WIFI)

Note: 802.11b

Radiated Emission Measurement

Date: 2023/12/1

Time: 0:37:54



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		384.0500	36.47	-3.67	32.80	46.00	-13.20	QP	
2		480.0800	32.95	-2.05	30.90	46.00	-15.10	QP	
3		512.0900	34.08	-1.58	32.50	46.00	-13.50	QP	
4		544.1000	31.17	-0.97	30.20	46.00	-15.80	QP	
5	*	768.1700	36.52	3.38	39.90	46.00	-6.10	QP	
6		952.4700	23.32	6.28	29.60	46.00	-16.40	QP	

*:Maximum data x:Over limit l:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber
Limit: FCC_Part 15C_3m
EUT: Wireless Borescope
M/N: BR450W-D
Mode: TX(WIFI)
Note: 802.11b

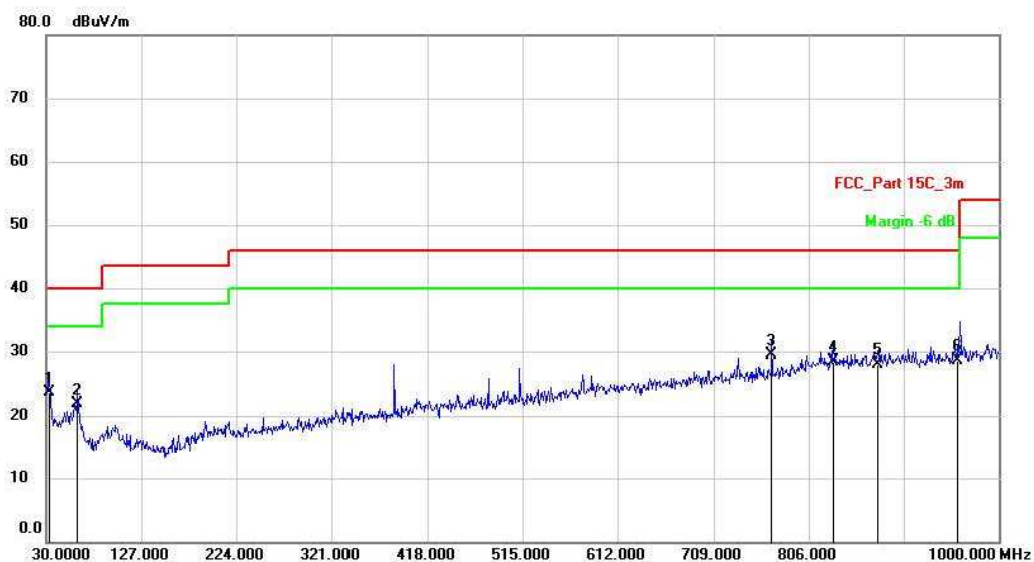
Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2023/12/1

Time: 0:29:27



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	32.9100	33.29	-9.49	23.80	40.00	-16.20	QP	
2		62.0100	30.22	-8.32	21.90	40.00	-18.10	QP	
3		768.1700	26.22	3.38	29.60	46.00	-16.40	QP	
4		831.2199	24.10	4.50	28.60	46.00	-17.40	QP	
5		876.8100	23.18	4.92	28.10	46.00	-17.90	QP	
6		958.2900	23.68	5.12	28.80	46.00	-17.20	QP	

*:Maximum data x:Over limit l:over margin

⟨Reference Only



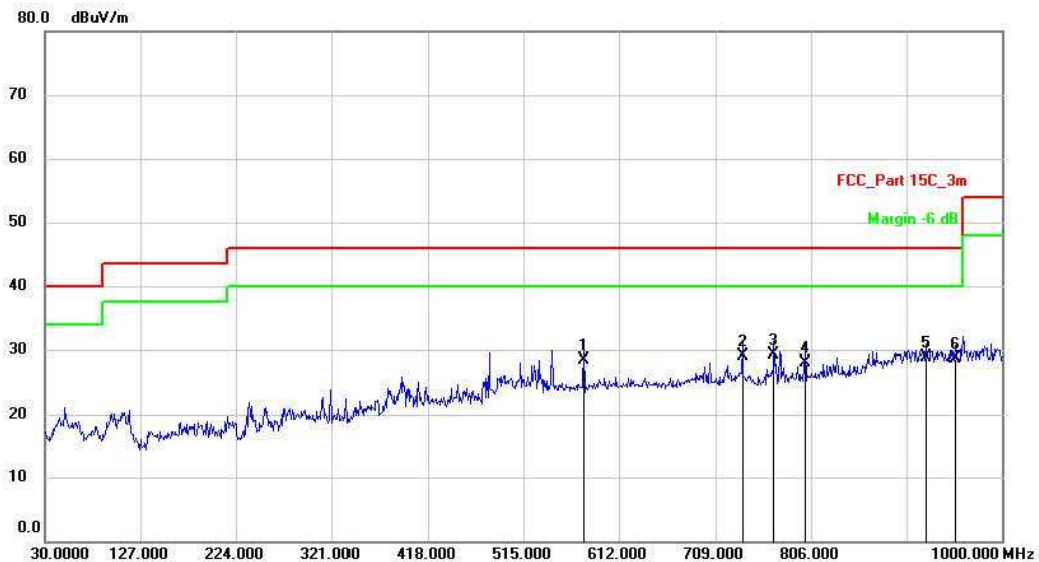
Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444 Fax: +86-769-2202 2799
Web: www.ntc-c.com

Site: 3m Chamber	Polarization: Horizontal	Temperature: 26
Limit: FCC_Part 15C_3m	Power: AC 120V/60Hz	Humidity: 47 %
EUT: Wireless Borescope	Distance: 3m	
M/N: BR450W-D		
Mode: TX(WIFI)		
Note: 802.11g		

Radiated Emission Measurement

Date: 2023/12/1

Time: 0:46:52



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		576.1100	28.49	0.01	28.50	46.00	-17.50	QP	
2		736.1599	26.39	2.81	29.20	46.00	-16.80	QP	
3	*	768.1700	25.92	3.38	29.30	46.00	-16.70	QP	
4		800.1800	24.24	3.96	28.20	46.00	-17.80	QP	
5		922.4000	22.67	6.23	28.90	46.00	-17.10	QP	
6		952.4700	22.42	6.28	28.70	46.00	-17.30	QP	

*:Maximum data x:Over limit l:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC_Part 15C_3m

Power: AC 120V/60Hz

Humidity: 47 %

EUT: Wireless Borescope

Distance: 3m

M/N: BR450W-D

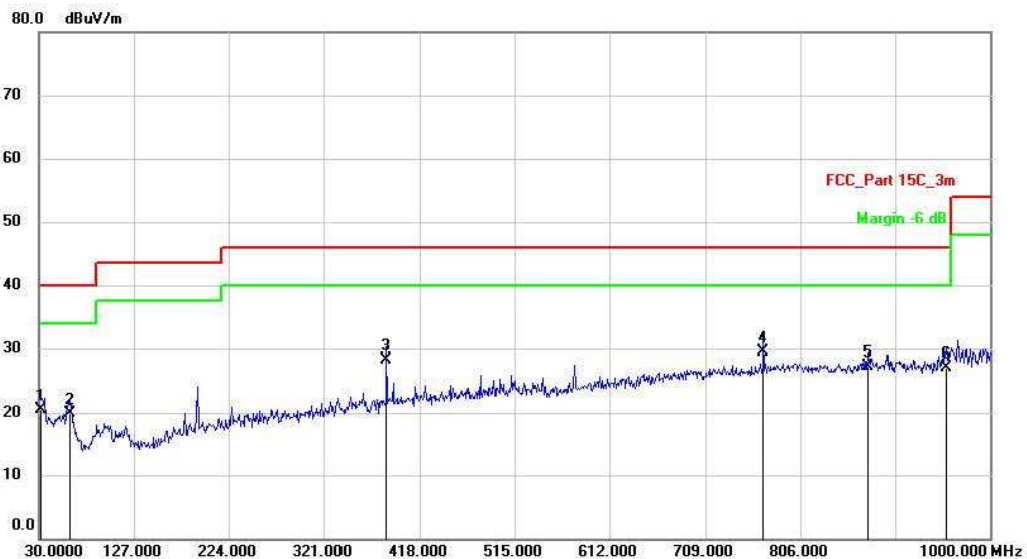
Mode: TX(WIFI)

Note: 802.11g

Radiated Emission Measurement

Date: 2023/12/1

Time: 0:52:01



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	30.20	-9.60	20.60	40.00	-19.40	QP	
2		62.0100	28.22	-8.32	19.90	40.00	-20.10	QP	
3		384.0500	33.07	-4.67	28.40	46.00	-17.60	QP	
4	*	768.1700	26.22	-3.38	29.60	46.00	-16.40	QP	
5		874.8700	22.37	4.93	27.30	46.00	-18.70	QP	
6		955.3800	22.10	5.10	27.20	46.00	-18.80	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC_Part 15C_3m

Power: AC 120V/60Hz

Humidity: 47 %

EUT: Wireless Borescope

Distance: 3m

M/N: BR450W-D

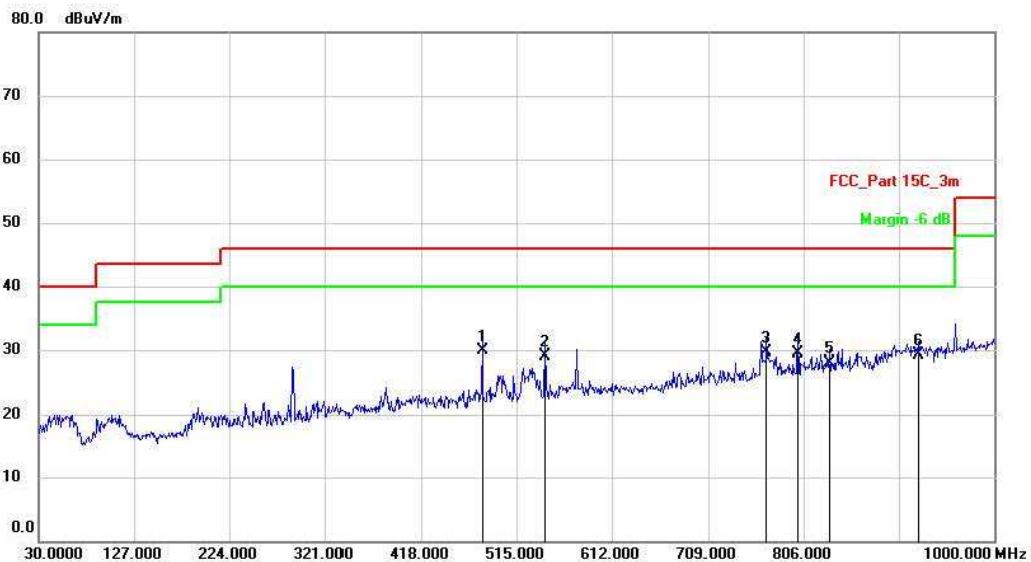
Mode: TX(WIFI)

Note: 802.11n20

Radiated Emission Measurement

Date: 2023/12/1

Time: 1:12:52



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	480.0800	31.95	-2.05	29.90	46.00	-16.10	QP	
2		544.1000	30.17	-0.97	29.20	46.00	-16.80	QP	
3		768.1700	26.42	3.38	29.80	46.00	-16.20	QP	
4		800.1800	25.64	3.96	29.60	46.00	-16.40	QP	
5		832.1900	23.69	4.51	28.20	46.00	-17.80	QP	
6		923.3700	23.06	6.24	29.30	46.00	-16.70	QP	

*:Maximum data x:Over limit !:over margin

<Reference Only



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber
Limit: FCC_Part 15C_3m
EUT: Wireless Borescope
M/N: BR450W-D
Mode: TX(WIFI)
Note: 802.11n20

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2023/12/1

Time: 1:01:25



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	30.0000	32.99	-10.69	22.30	40.00	-17.70	QP	
2		62.0100	29.72	-8.32	21.40	40.00	-18.60	QP	
3		384.0500	27.27	-4.67	22.60	46.00	-23.40	QP	
4		734.2199	21.73	2.77	24.50	46.00	-21.50	QP	
5		831.2199	22.10	4.50	26.60	46.00	-19.40	QP	
6		958.2900	22.68	5.12	27.80	46.00	-18.20	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
Web: www.ntc-c.com

Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC_15.247_3m_Peak

Power: AC 120V/60Hz

Humidity: 47 %

EUT: Wireless Borescope

Distance: 3m

M/N: BR450W-D

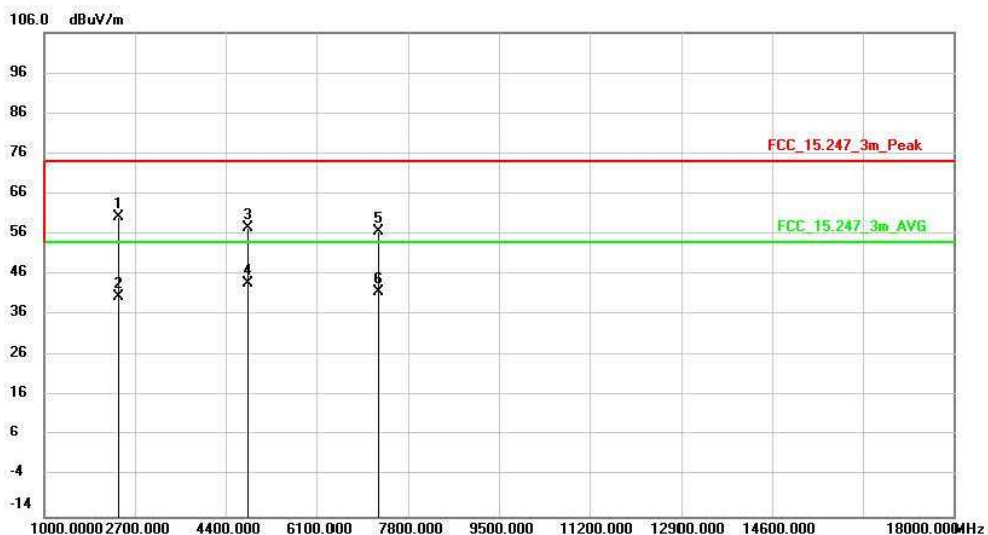
Mode: TX(WIFI)

Note: 802.11b Low

Radiated Emission Measurement

Date: 2023/11/30

Time: 22:10:09



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	60.25	0.09	60.34	74.00	-13.66	peak	
2		2390.000	40.45	0.09	40.54	54.00	-13.46	AVG	
3		4824.000	51.23	6.38	57.61	74.00	-16.39	peak	
4	*	4824.000	37.31	6.38	43.69	54.00	-10.31	AVG	
5		7236.000	46.08	10.48	56.56	74.00	-17.44	peak	
6		7236.000	31.16	10.48	41.64	54.00	-12.36	AVG	

*:Maximum data x:Over limit !:over margin

<Reference Only



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Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC_15.247_3m_Peak

Power: AC 120V/60Hz

Humidity: 47 %

EUT: Wireless Borescope

Distance: 3m

M/N: BR450W-D

Mode: TX(WIFI)

Note: 802.11b Low

Radiated Emission Measurement

Date: 2023/11/30

Time: 22:17:53



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	50.80	0.09	50.89	74.00	-23.11	peak	
2		2390.000	34.37	0.09	34.46	54.00	-19.54	AVG	
3		4824.000	45.92	6.38	52.30	74.00	-21.70	peak	
4	*	4824.000	36.33	6.38	42.71	54.00	-11.29	AVG	
5		7236.000	45.78	10.48	56.26	74.00	-17.74	peak	
6		7236.000	31.17	10.48	41.65	54.00	-12.35	AVG	

*:Maximum data x:Over limit !:over margin

<Reference Only