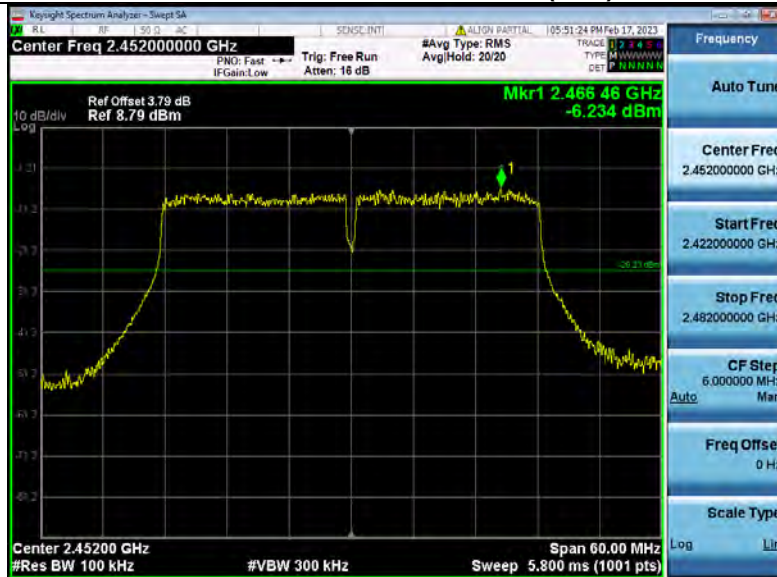


1. Reference_Level_NVNT_ANT2_802_11n(HT40)_2452



2. Bandedge_NVNT_ANT2_802_11n(HT40)_2452



11.3. MAX. OUTPUT POWER

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	18.99	30	Pass
NVNT	ANT1	802.11b	2437.00	18.92	30	Pass
NVNT	ANT1	802.11b	2462.00	19.01	30	Pass
NVNT	ANT1	802.11g	2412.00	17.39	30	Pass
NVNT	ANT1	802.11g	2437.00	16.92	30	Pass
NVNT	ANT1	802.11g	2462.00	16.51	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.63	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	15.58	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	15.77	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	15.26	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	14.66	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	15.16	30	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	limit(dBm)	Result
NVNT	ANT2	802.11b	2412.00	19.08	30	Pass
NVNT	ANT2	802.11b	2437.00	18.97	30	Pass
NVNT	ANT2	802.11b	2462.00	19.75	30	Pass
NVNT	ANT2	802.11g	2412.00	17.26	30	Pass
NVNT	ANT2	802.11g	2437.00	17.15	30	Pass
NVNT	ANT2	802.11g	2462.00	17.82	30	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	15.82	30	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	15.75	30	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	16.35	30	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	15.16	30	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	15.13	30	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	15.46	30	Pass

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	limit(dBm)	Result
NVNT	MIMO	802.11n(HT20)	2412.00	18.74	29.35	Pass
NVNT	MIMO	802.11n(HT20)	2437.00	18.68	29.35	Pass
NVNT	MIMO	802.11n(HT20)	2462.00	19.08	29.35	Pass
NVNT	MIMO	802.11n(HT40)	2422.00	18.22	29.35	Pass
NVNT	MIMO	802.11n(HT40)	2437.00	17.91	29.35	Pass
NVNT	MIMO	802.11n(HT40)	2452.00	18.32	29.35	Pass

Note: mimo limit= limit-(MIMO Gain-6)=30-(6.65-6)=29.35 dBm, MIMO Gain refer to P7 in this report.

11.4. POWER SPECTRAL DENSITY

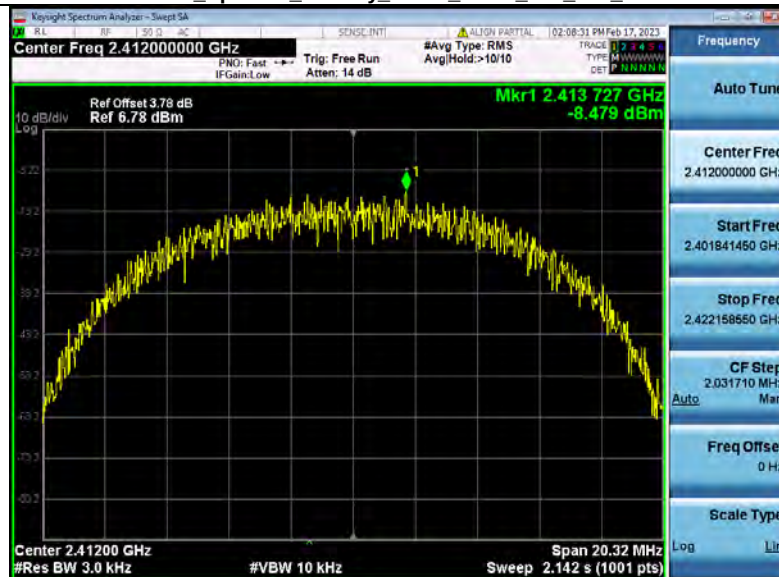
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-8.48	8	Pass
NVNT	ANT1	802.11b	2437.00	-8.67	8	Pass
NVNT	ANT1	802.11b	2462.00	-8.72	8	Pass
NVNT	ANT1	802.11g	2412.00	-15.47	8	Pass
NVNT	ANT1	802.11g	2437.00	-16.32	8	Pass
NVNT	ANT1	802.11g	2462.00	-15.83	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-16.57	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-17.34	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-17.62	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-19.62	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-19.82	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-20.22	8	Pass

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT2	802.11b	2412.00	-8.22	8	Pass
NVNT	ANT2	802.11b	2437.00	-7.75	8	Pass
NVNT	ANT2	802.11b	2462.00	-7.39	8	Pass
NVNT	ANT2	802.11g	2412.00	-15.86	8	Pass
NVNT	ANT2	802.11g	2437.00	-15.67	8	Pass
NVNT	ANT2	802.11g	2462.00	-16.02	8	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	-17.12	8	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	-17.23	8	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	-16.39	8	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	-20.03	8	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	-19.57	8	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	-19.67	8	Pass

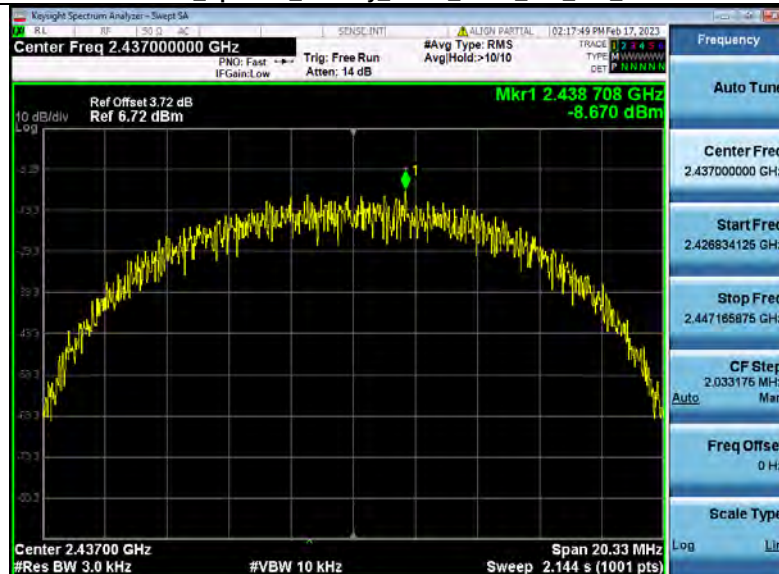
Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT2	802.11n(HT20)	2412.00	-13.83	7.35	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	-14.27	7.35	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	-13.95	7.35	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	-16.81	7.35	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	-16.68	7.35	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	-16.93	7.35	Pass

Note: MIMO limit= limit-(MIMO Gain-6)=8-(6.65-6)=7.35 dBm/3kHz, MIMO Gain refer to P7 in this report.

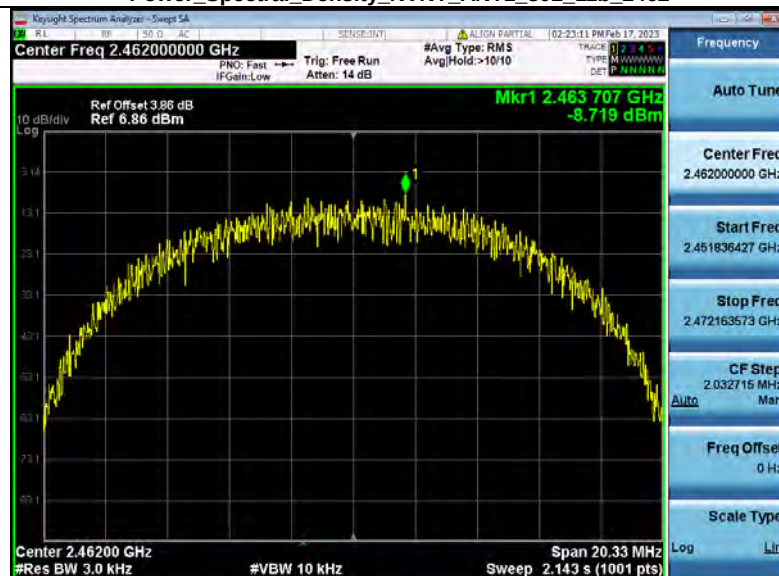
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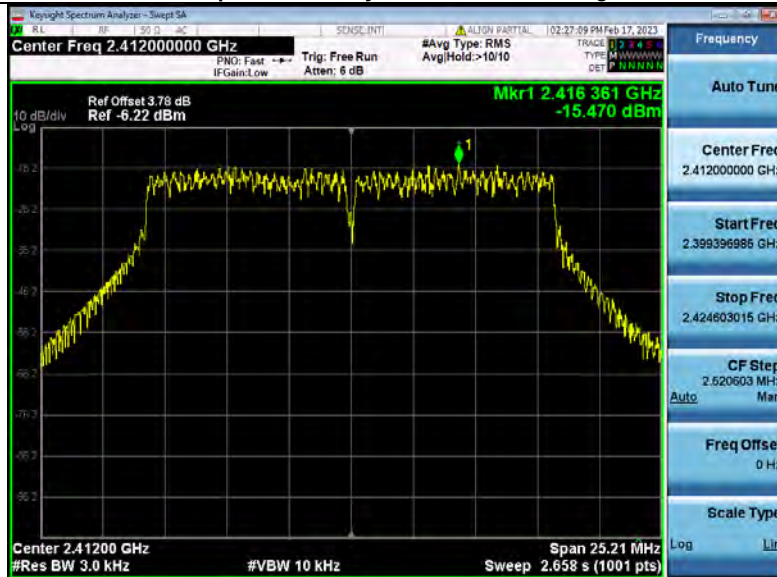
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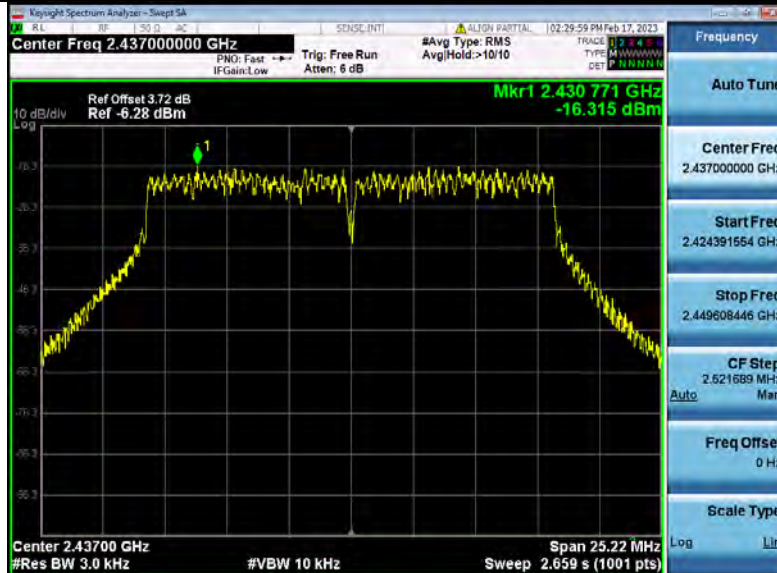
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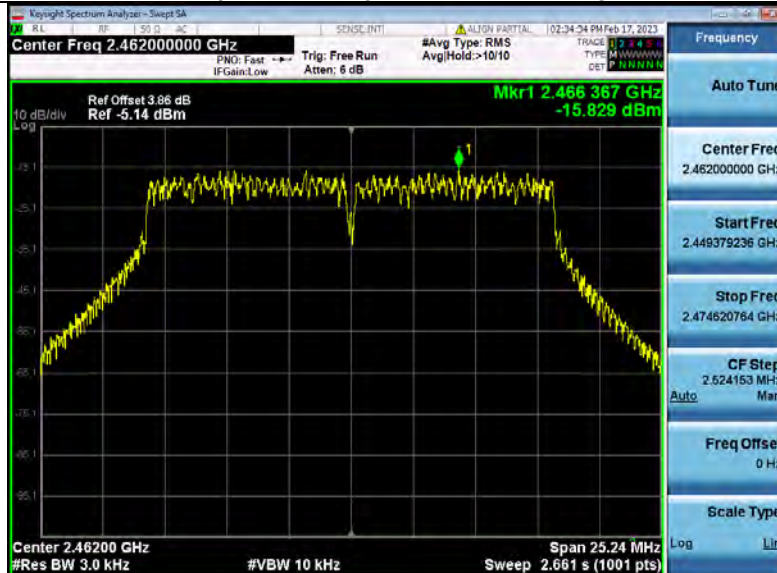
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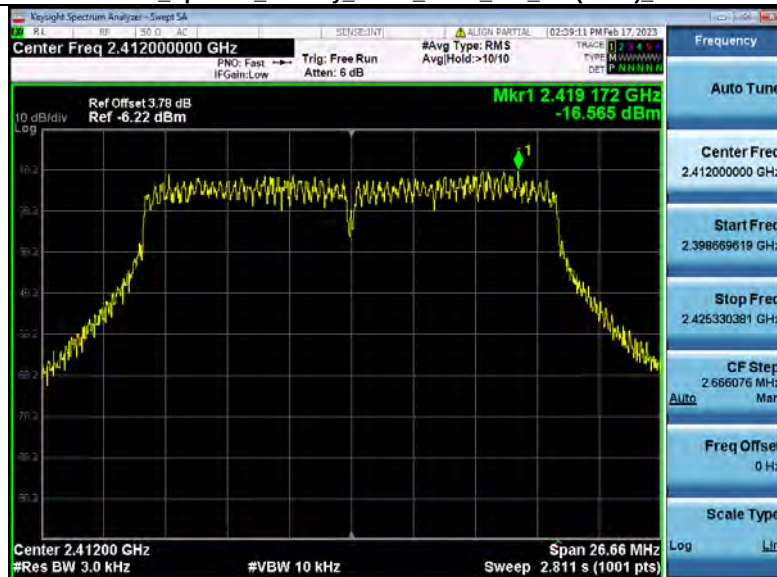
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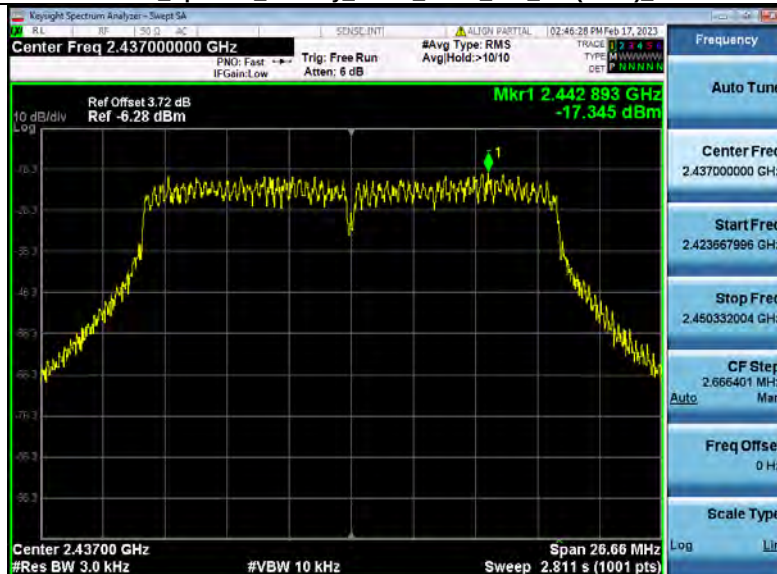
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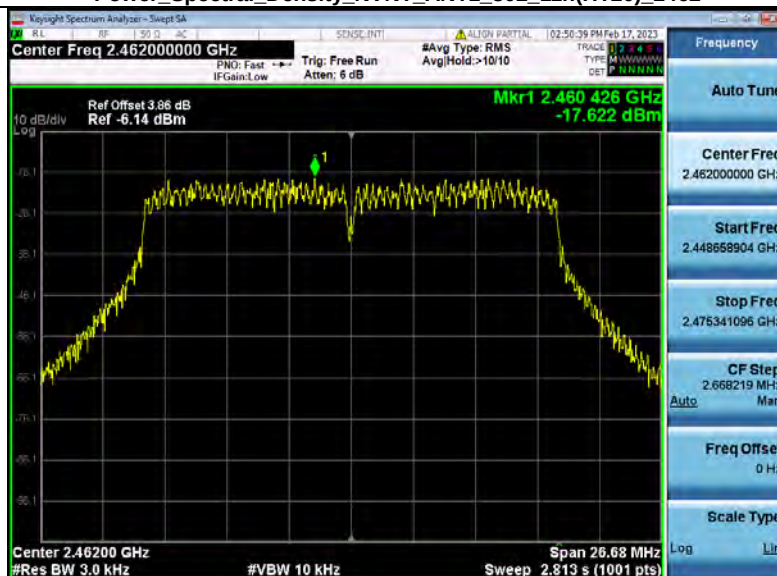
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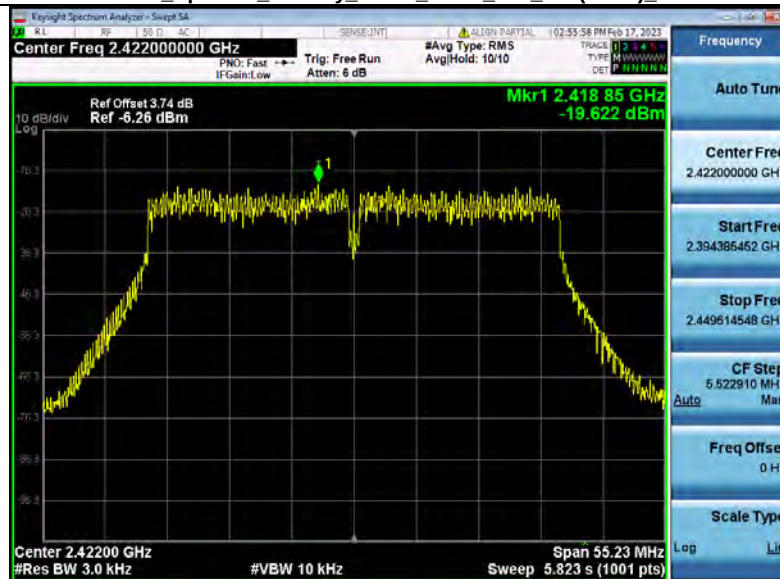
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



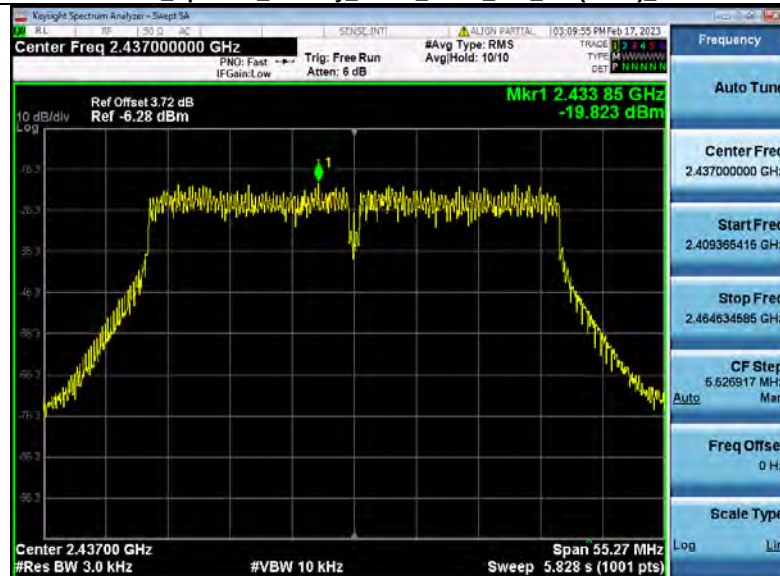
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Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_2422



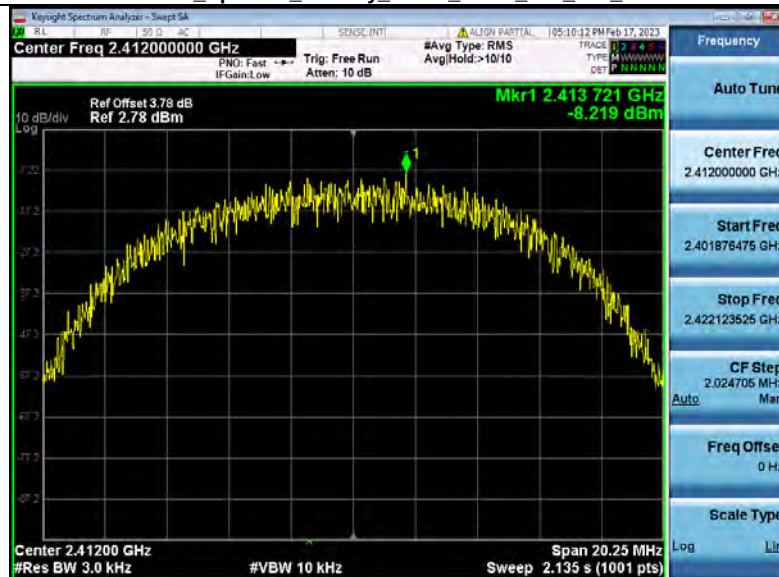
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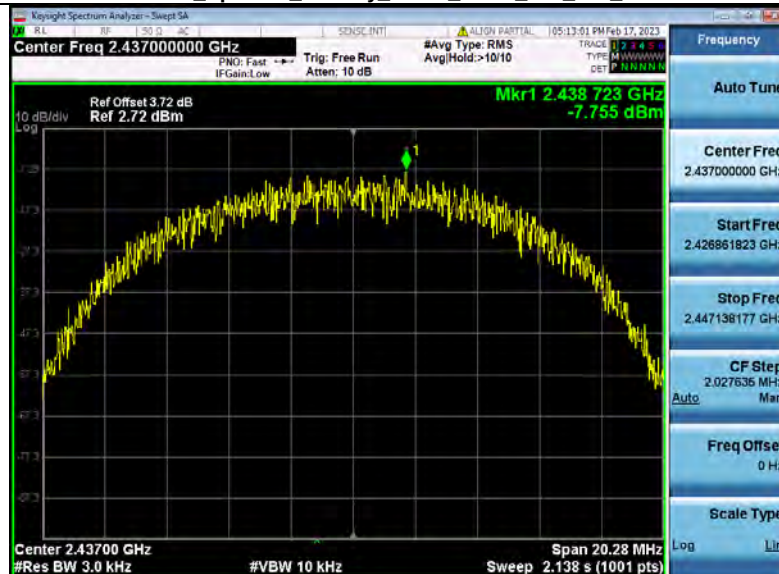
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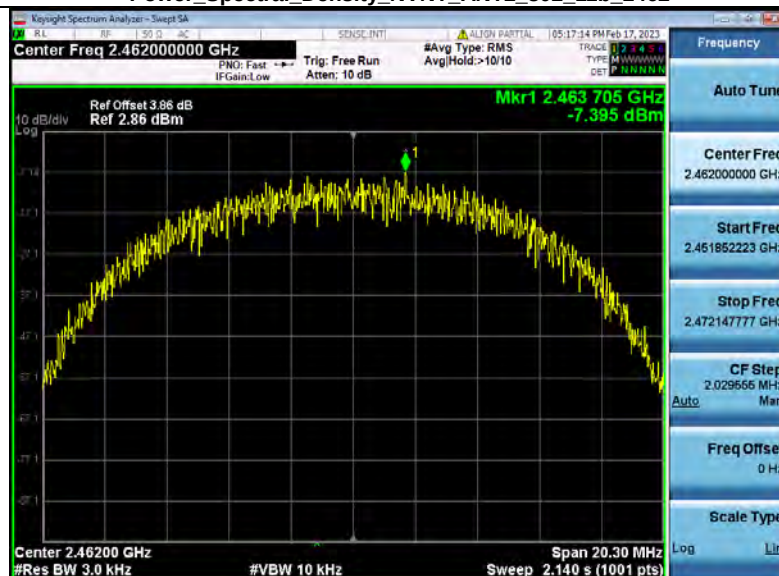
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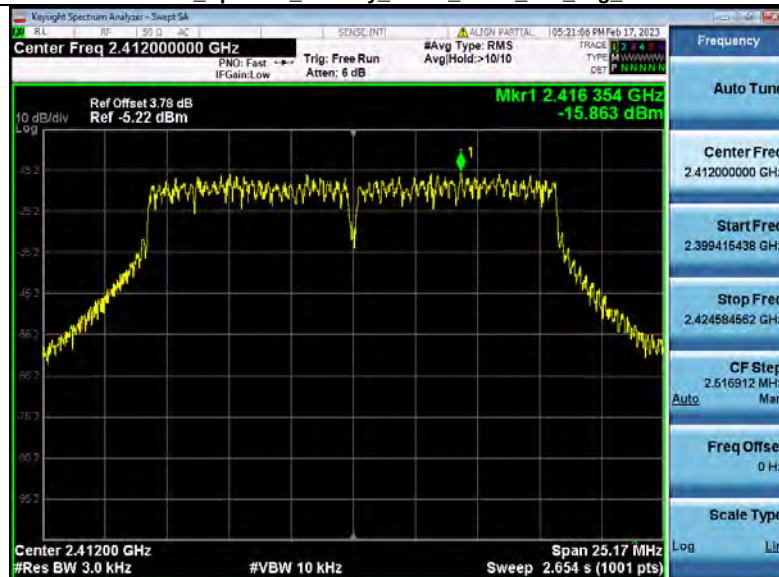
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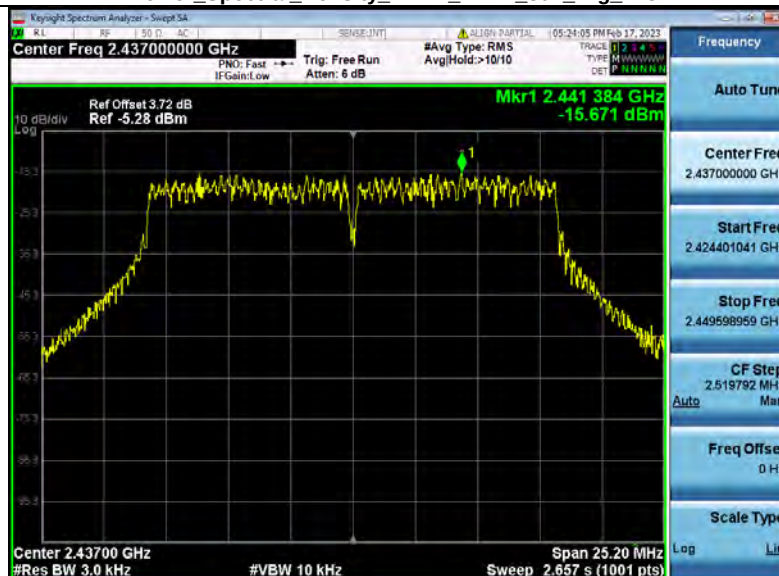
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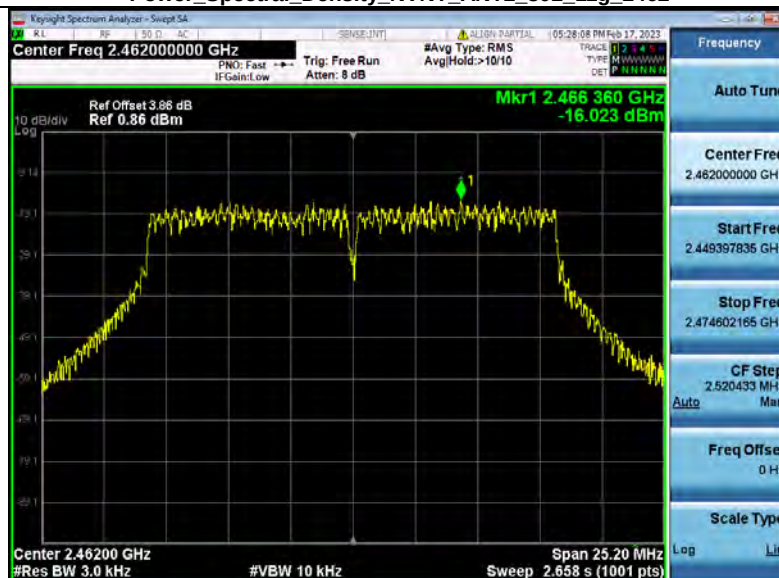
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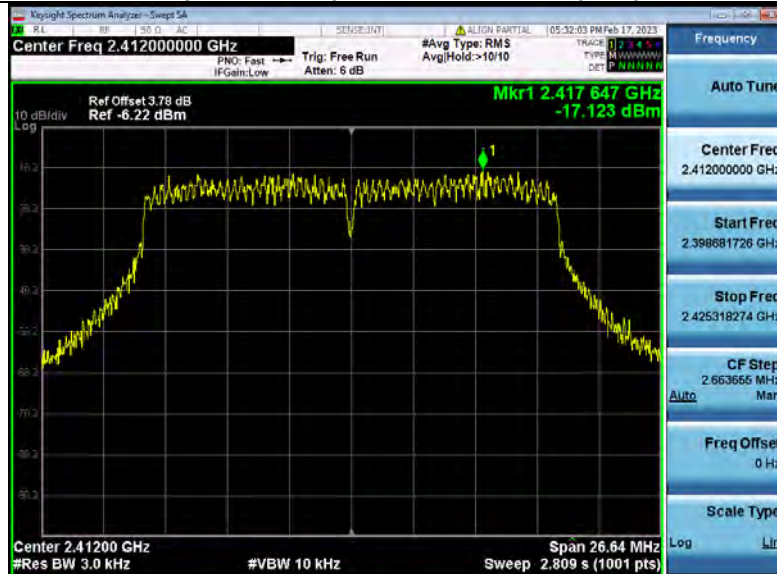
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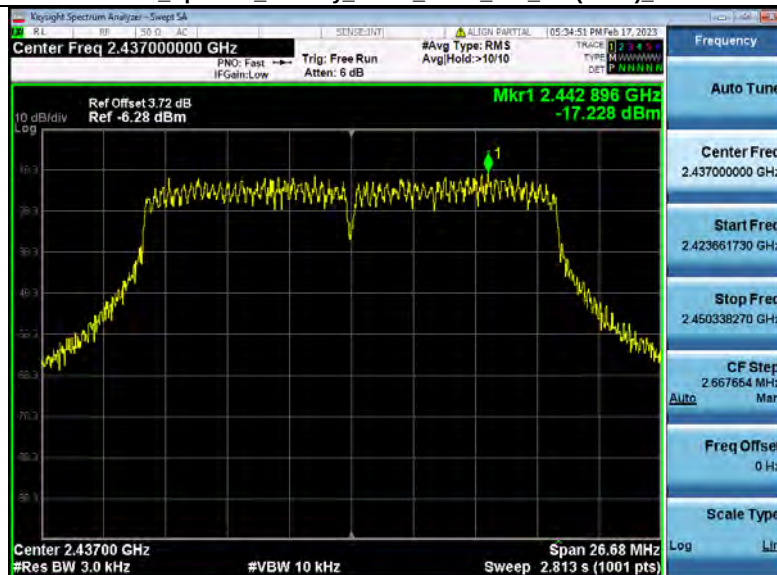
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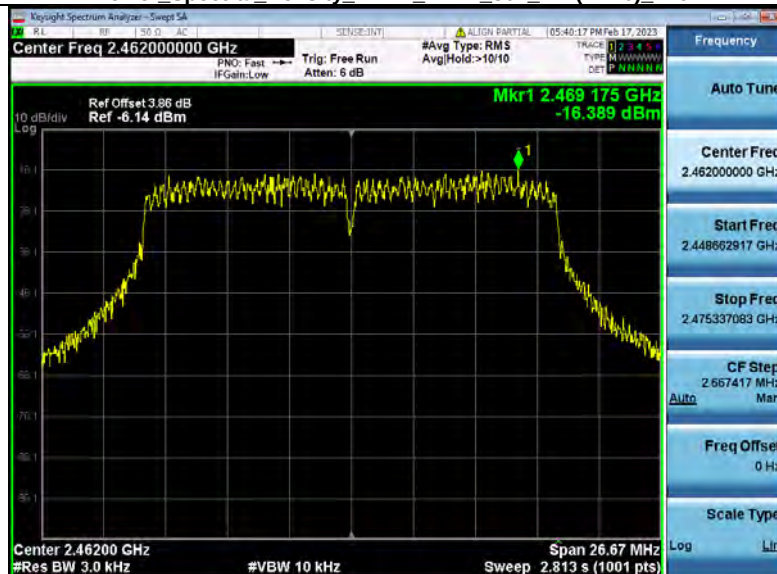
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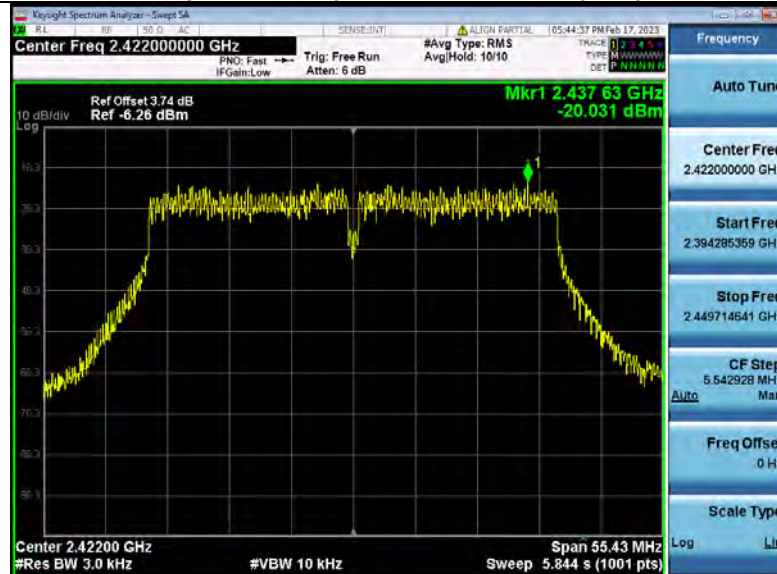
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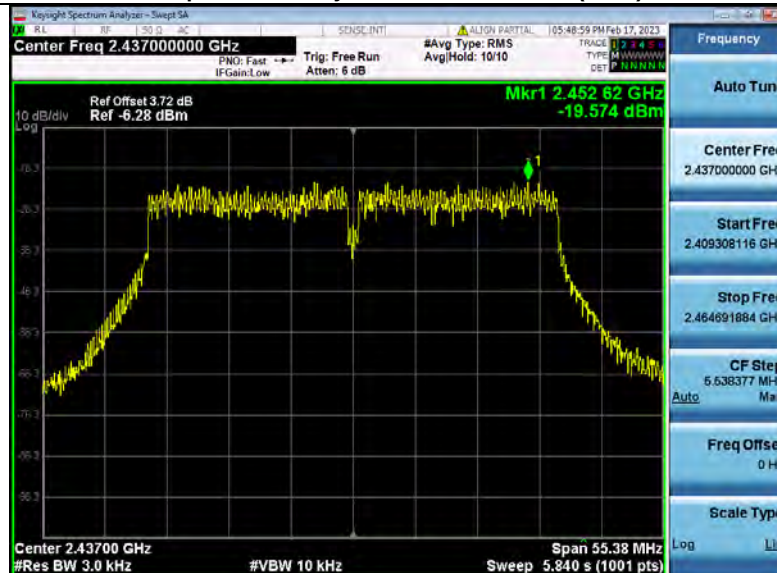
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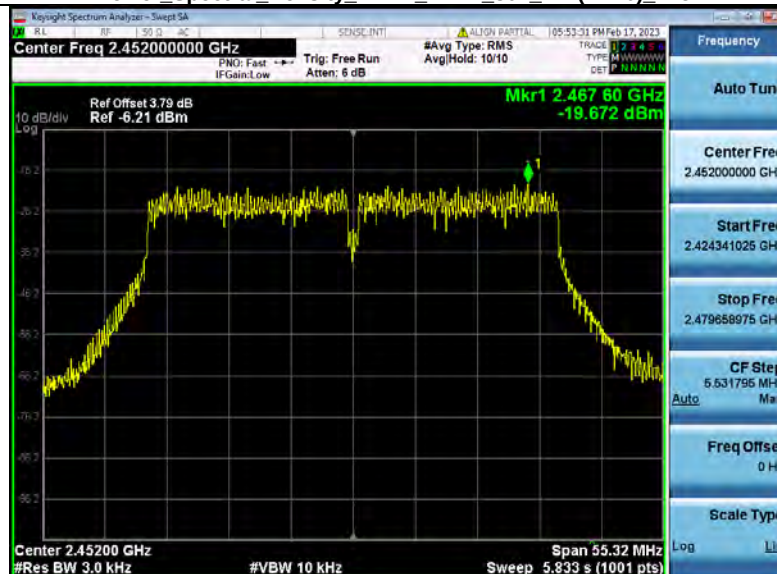
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Power Spectral Density NVNT_ANT2_802_11n(HT40)_2437

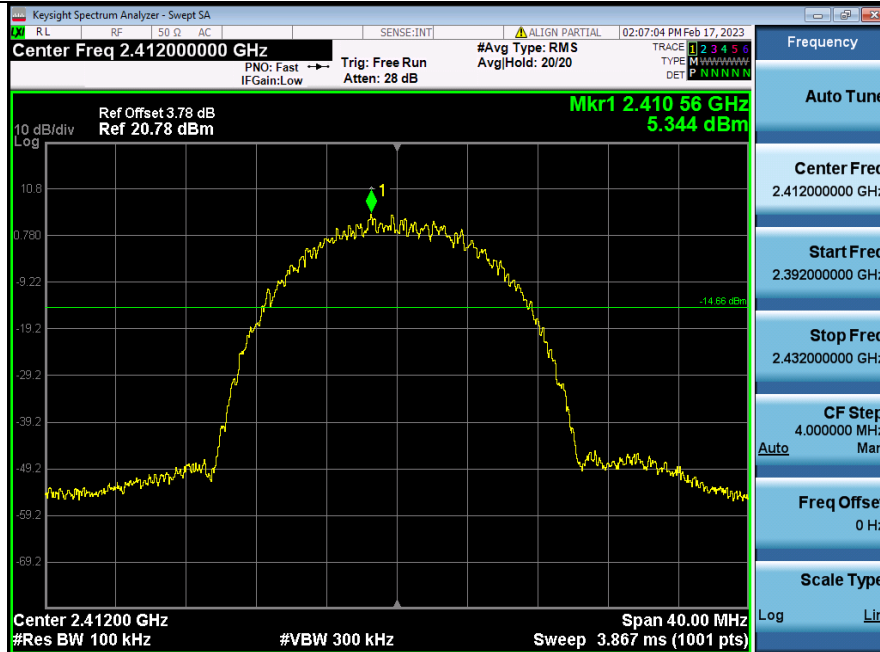


Power Spectral Density NVNT_ANT2_802_11n(HT40)_2452

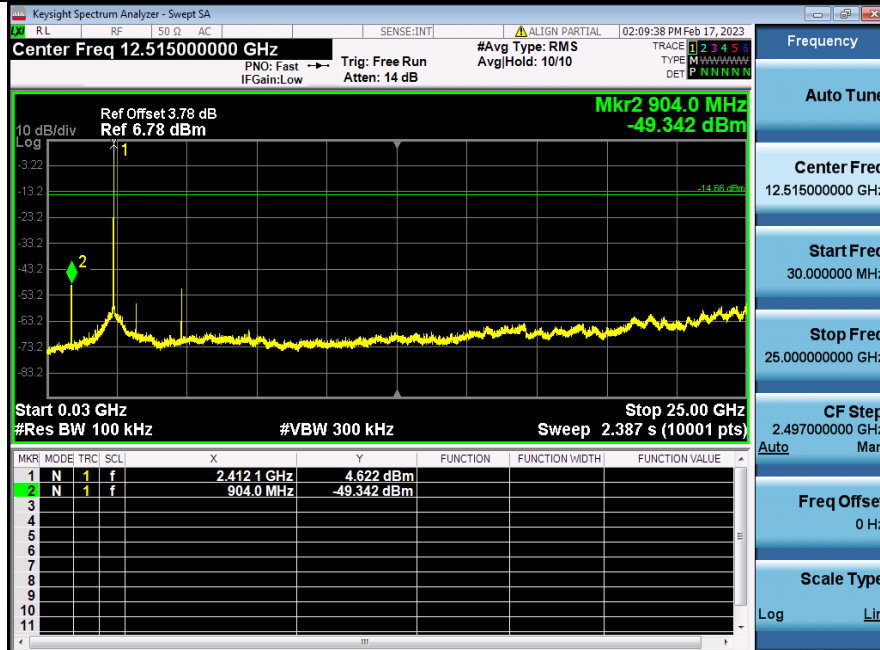


11.5. SPURIOUS EMISSION

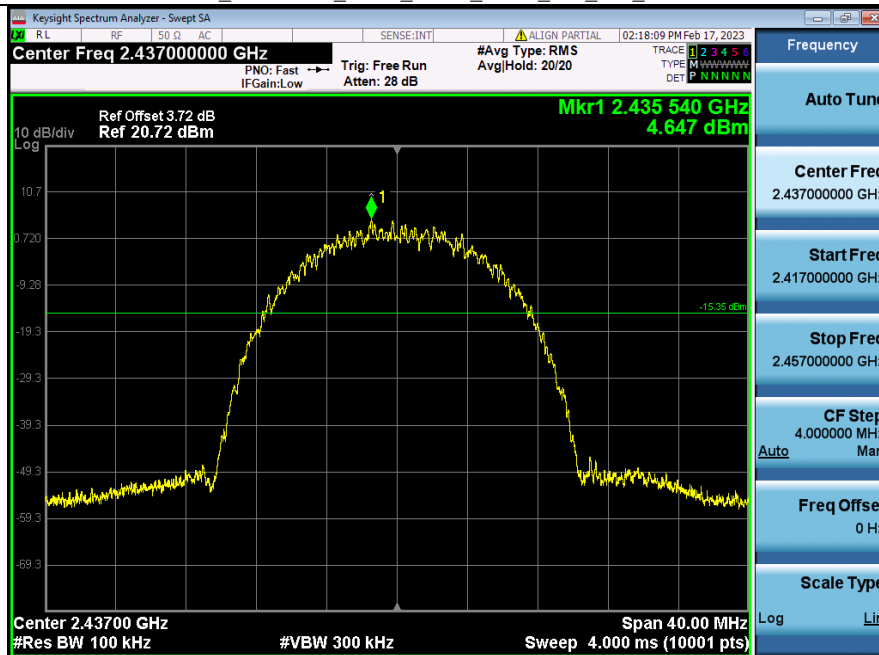
1 Reference_Level_NVNT_ANT1_802_11b_2412



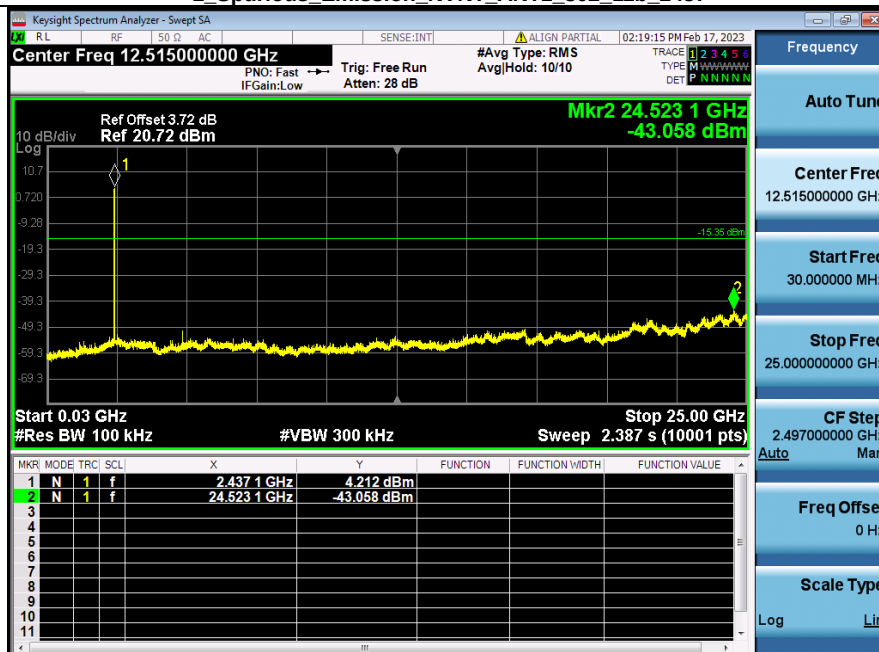
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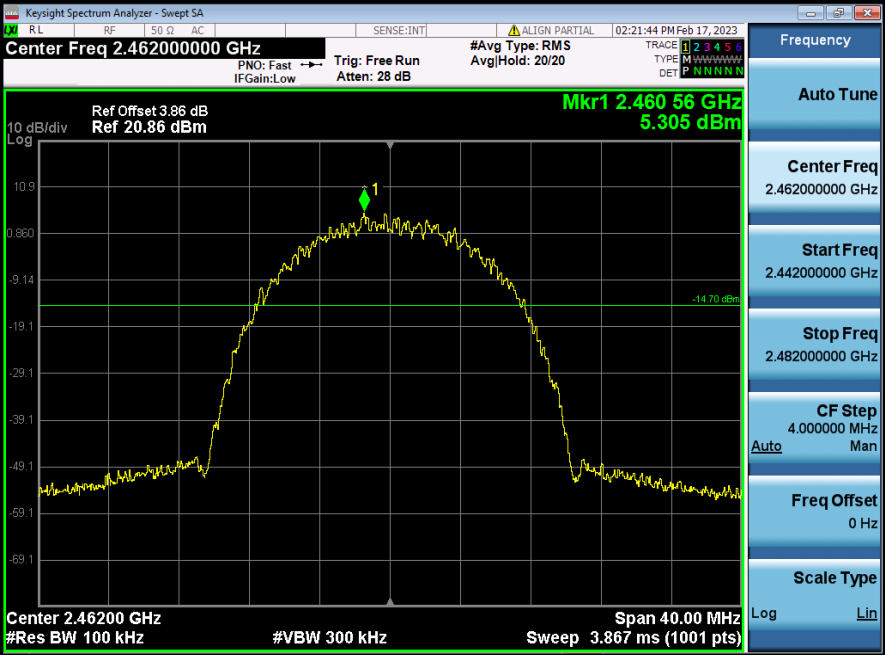
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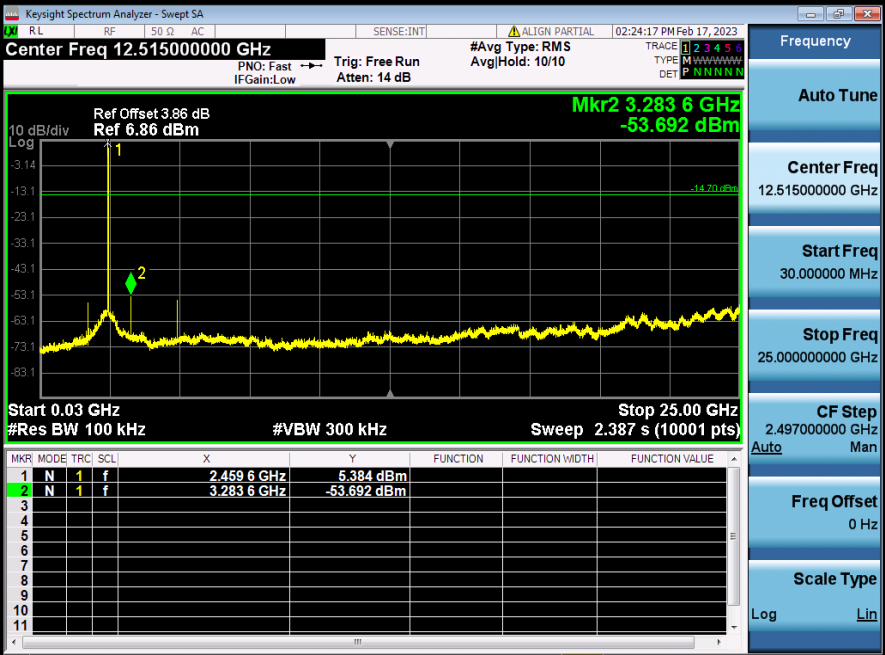
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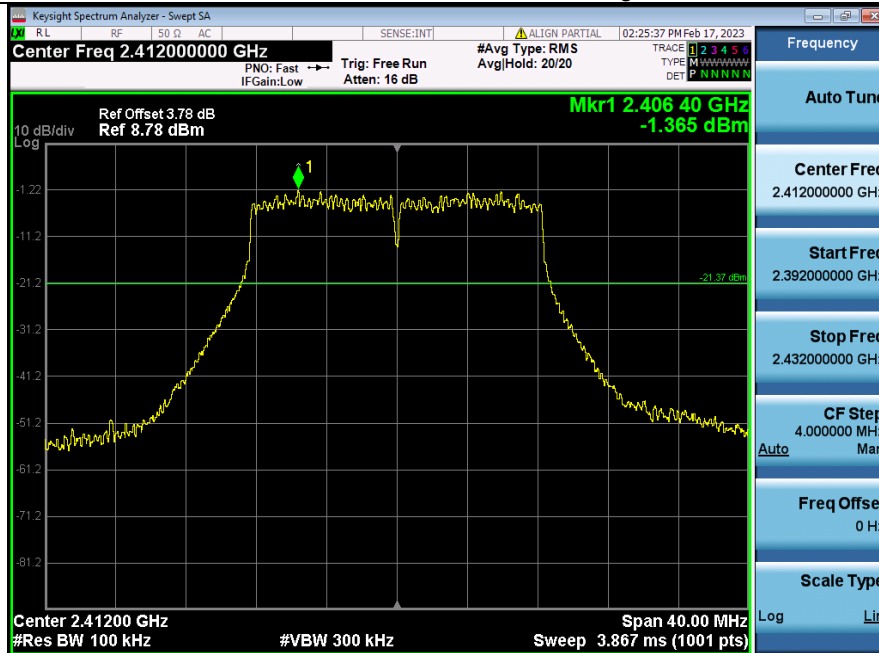
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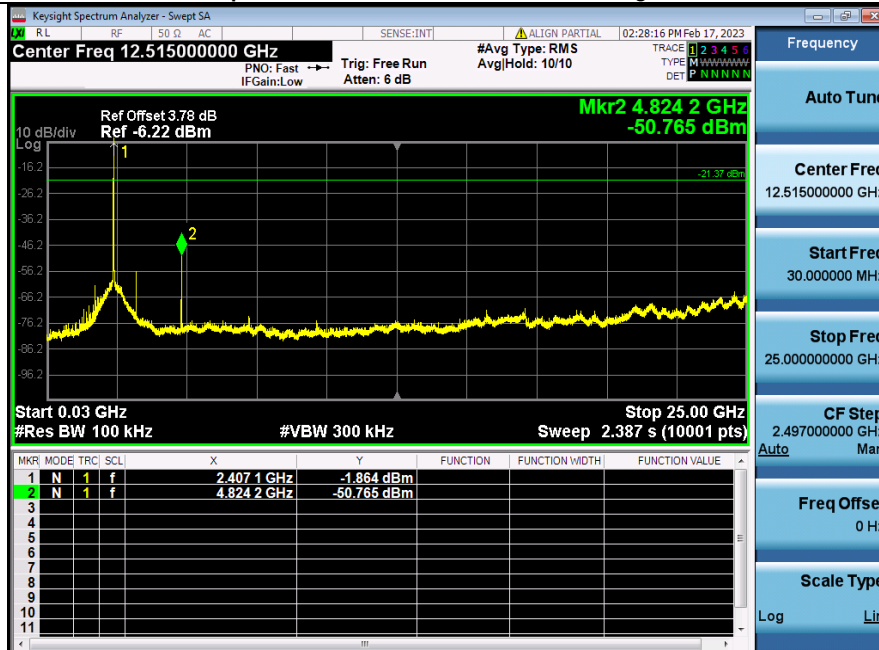
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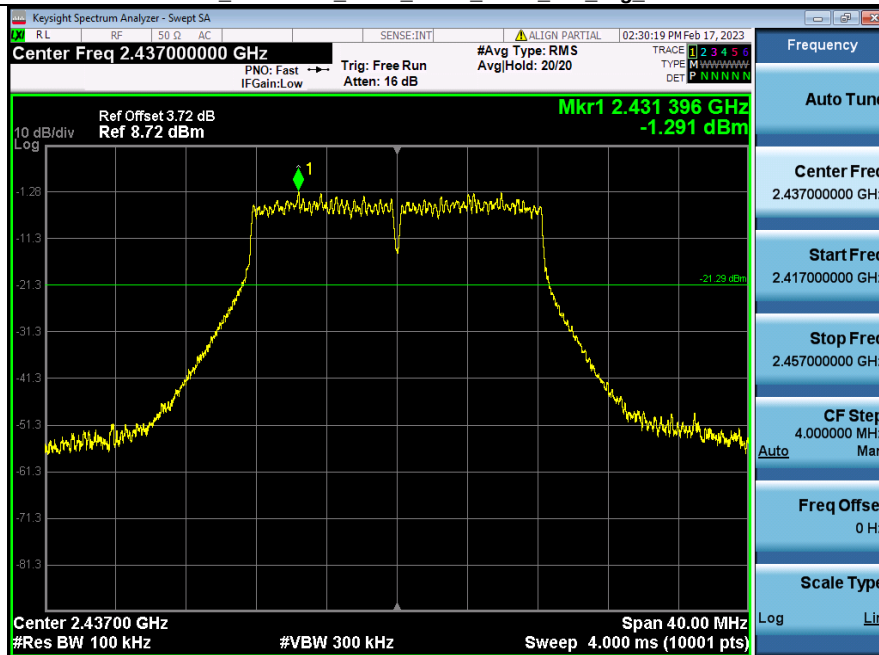
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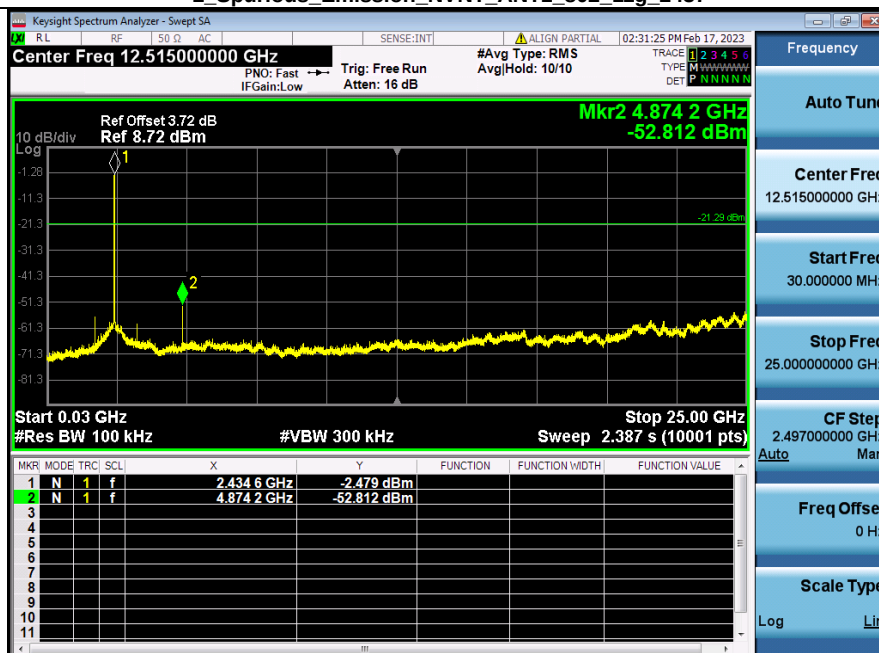
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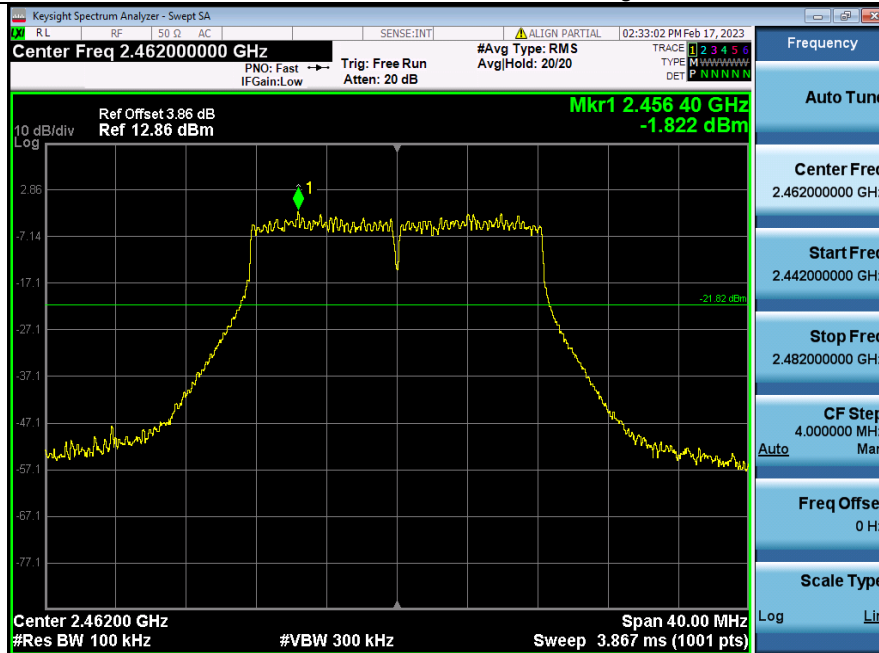
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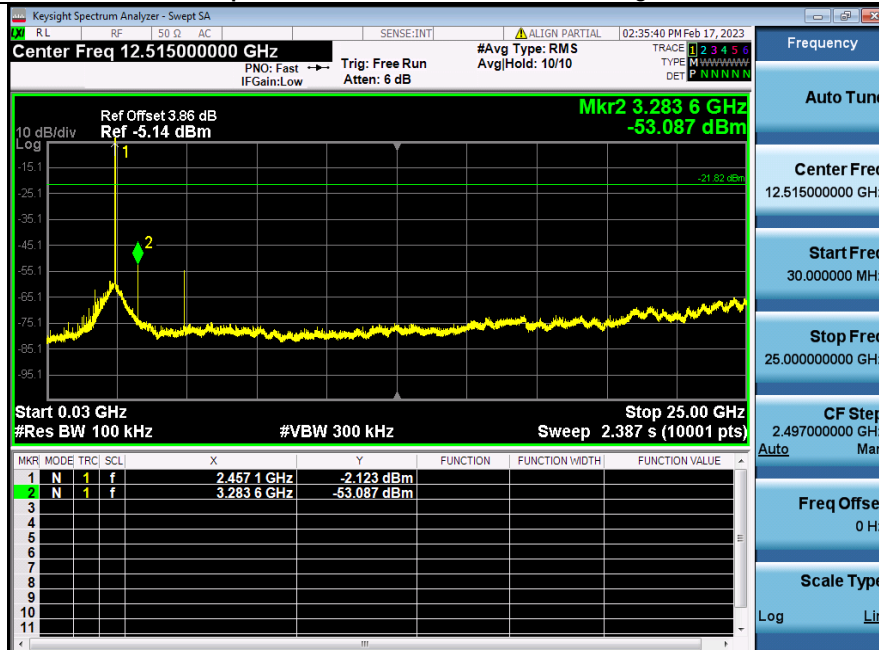
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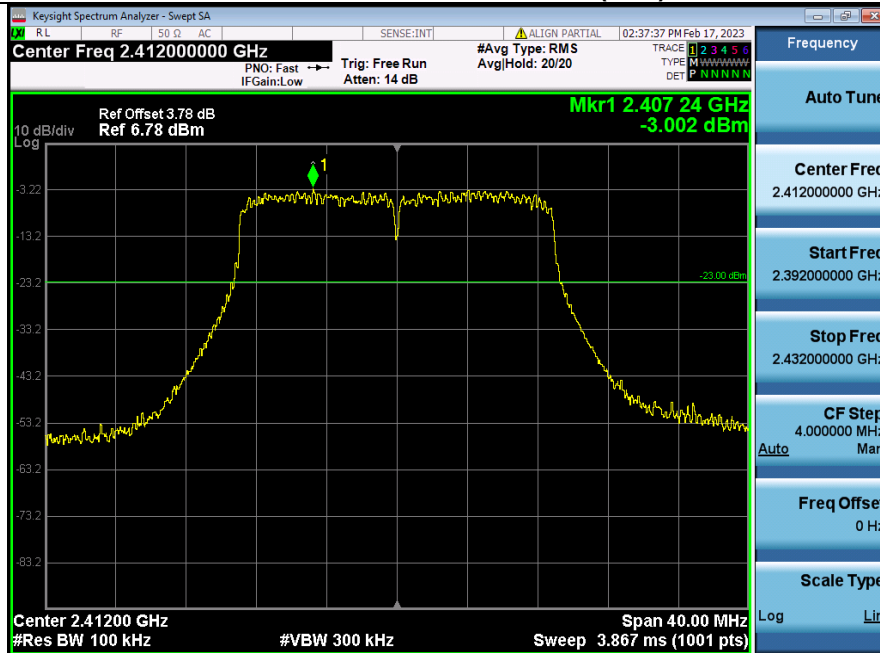
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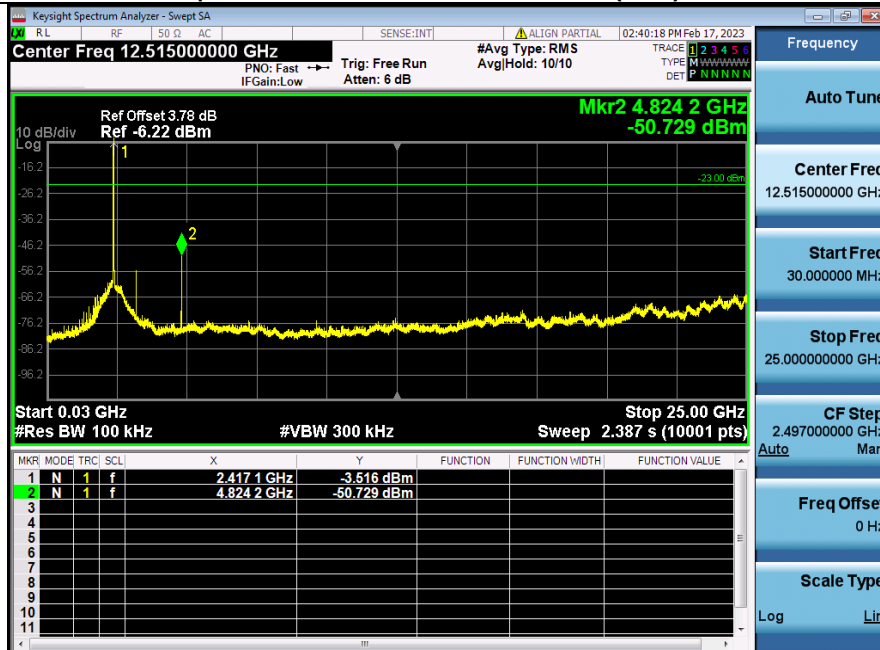
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2412



Keysight Spectrum Analyzer - Swept SA

RF 50.0 AC SENSE:INT ALIGN PARTIAL 02:46:47 PM Feb 17, 2023

Center Freq 2.43700000 GHz #Avg Type: RMS AvgHold: 20/20

PNO: Fast Trg: Free Run IFGain: Low Atten: 14 dB

TRACE 1 2.3 4 5.6 TYPE M W W W W W W W DET P N N N N N N

Frequency

Auto Tune

Center Freq 2.43700000 GHz

Start Freq 2.41700000 GHz

Stop Freq 2.45700000 GHz

CF Step 4.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type

Log Lin

10 dB/div Log

Ref Offset 3.72 dB Ref 6.72 dBm

Mkr1 2.432 268 GHz -3.184 dBm

Center 2.43700 GHz Span 40.00 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.000 ms (10001 pts)

Keysight Spectrum Analyzer - Swept SA

Center Freq 12.515000000 GHz

Ref Offset 3.72 dB
Ref 6.72 dBm

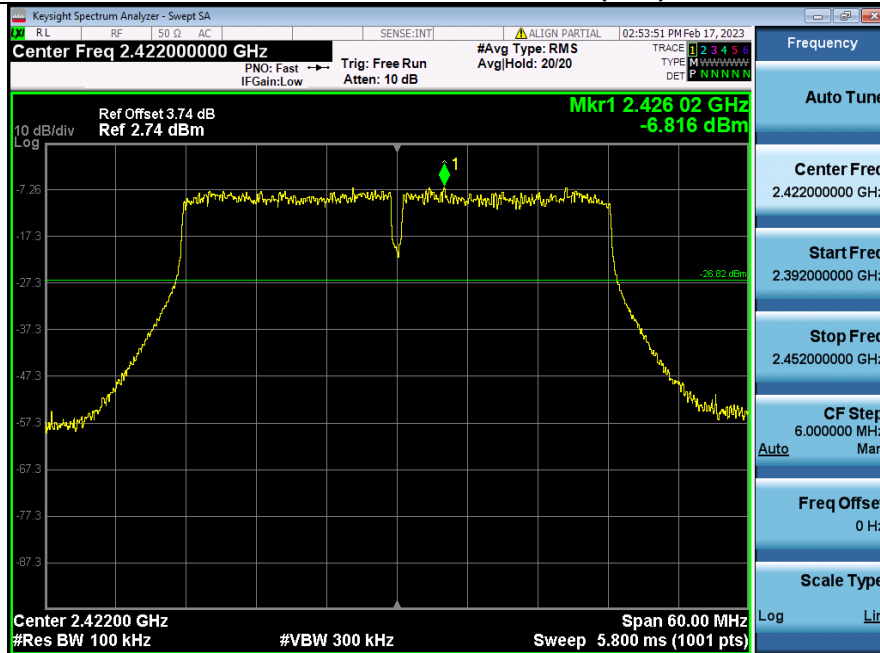
Mkr2 4.874 2 GHz
-52.666 dBm

Start 0.03 GHz
#Res BW 100 kHz

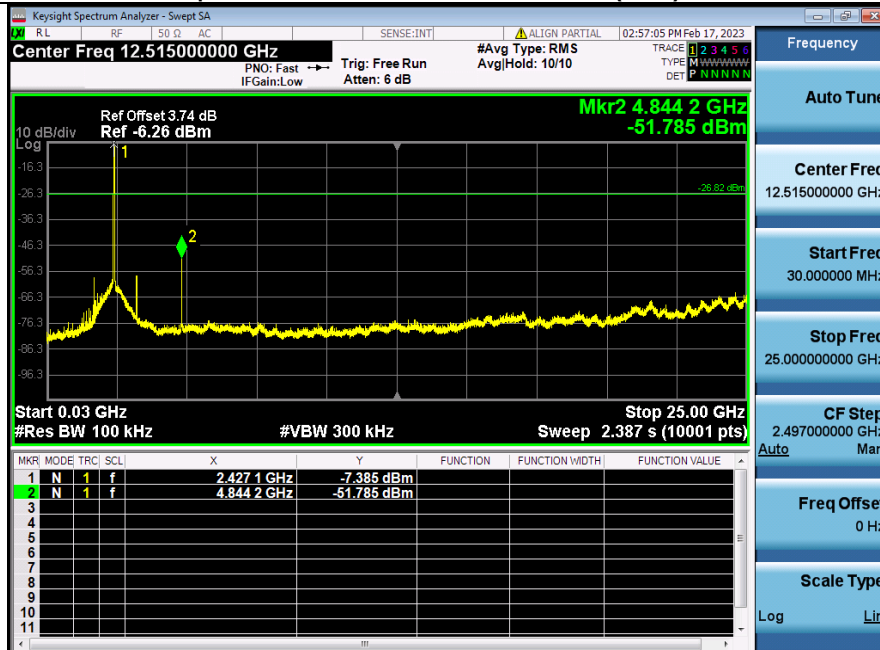
Stop 25.00 GHz
Sweep 2.387 s (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.442 1 GHz	-3.398 dBm			
2	N	1	f	4.874 2 GHz	-52.666 dBm			

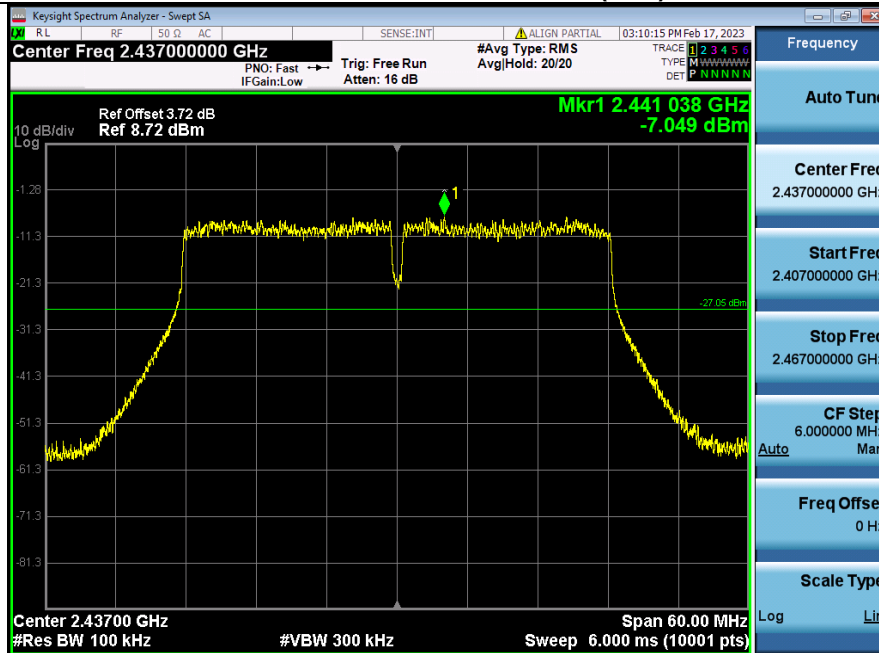
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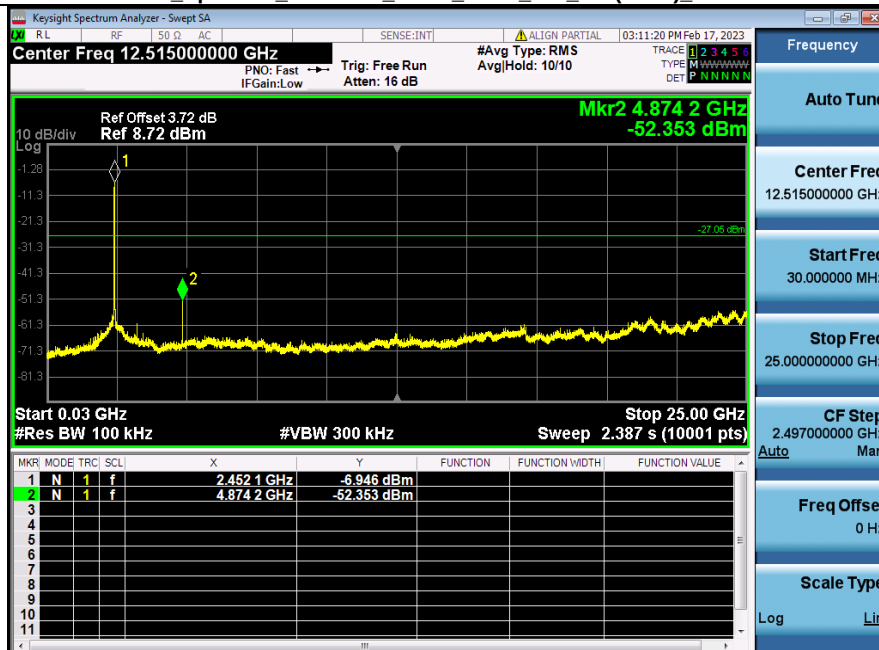
2_Spurious Emission_NVNT_ANT1_802_11n(HT40)_2422



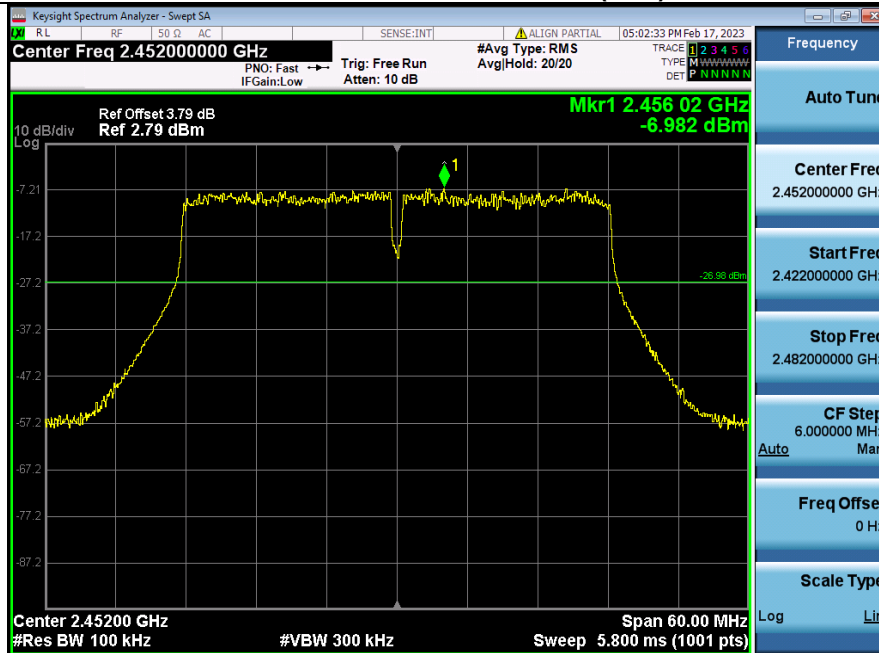
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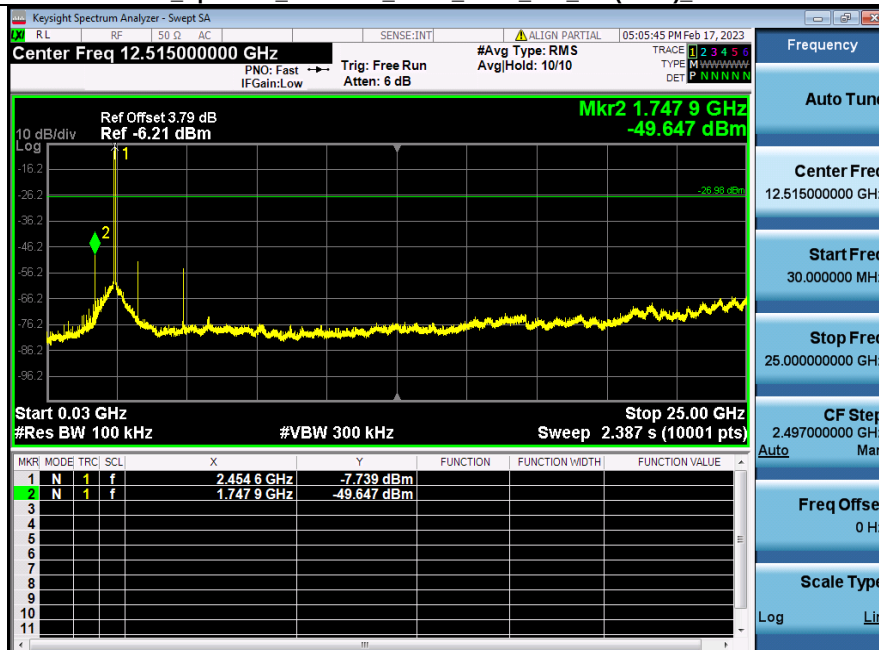
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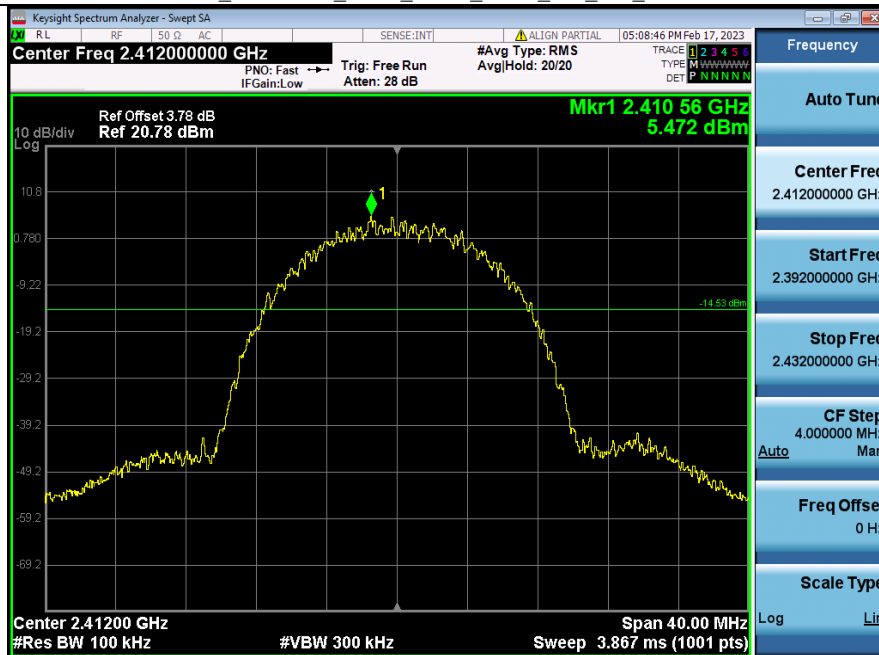
1. Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



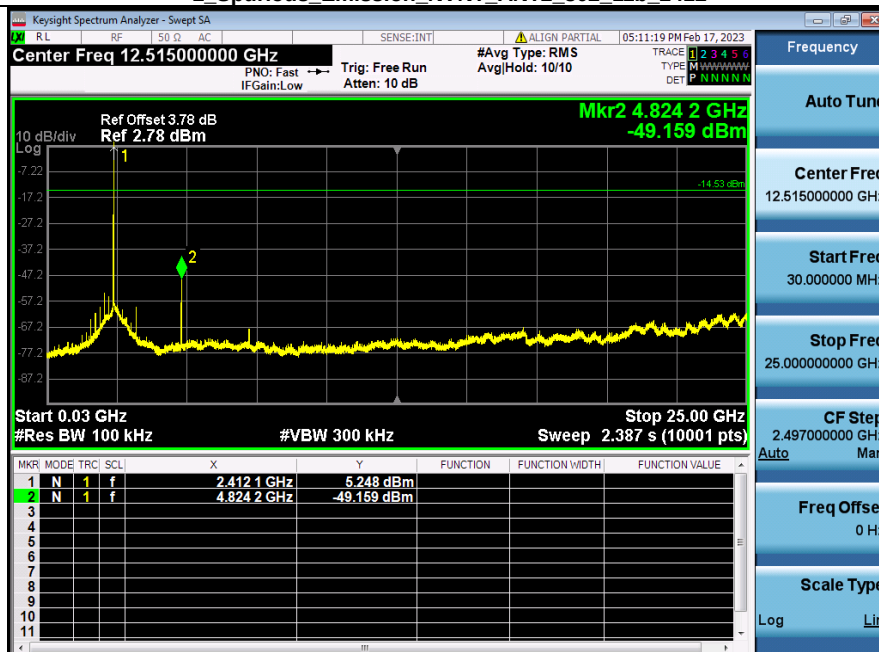
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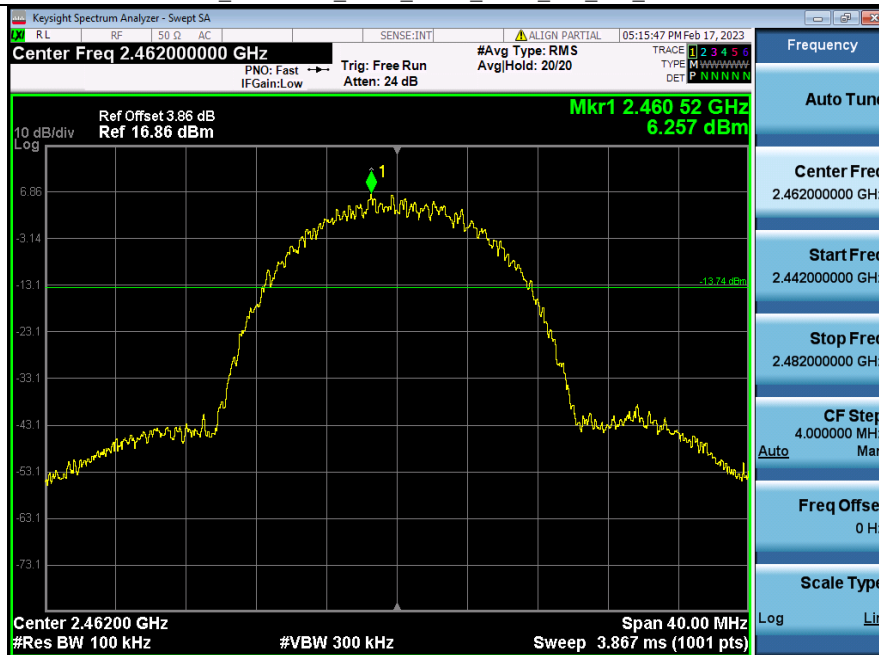
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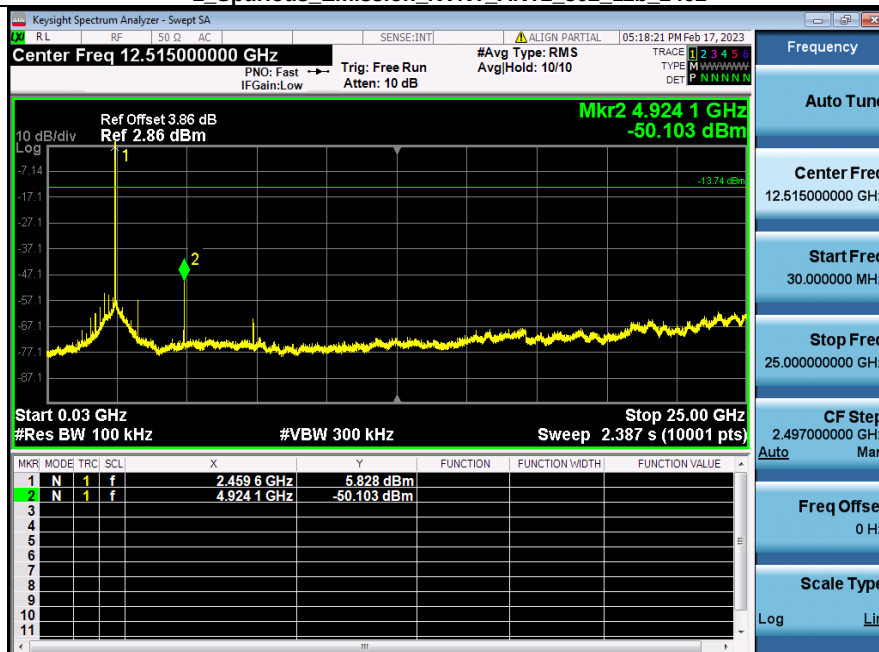
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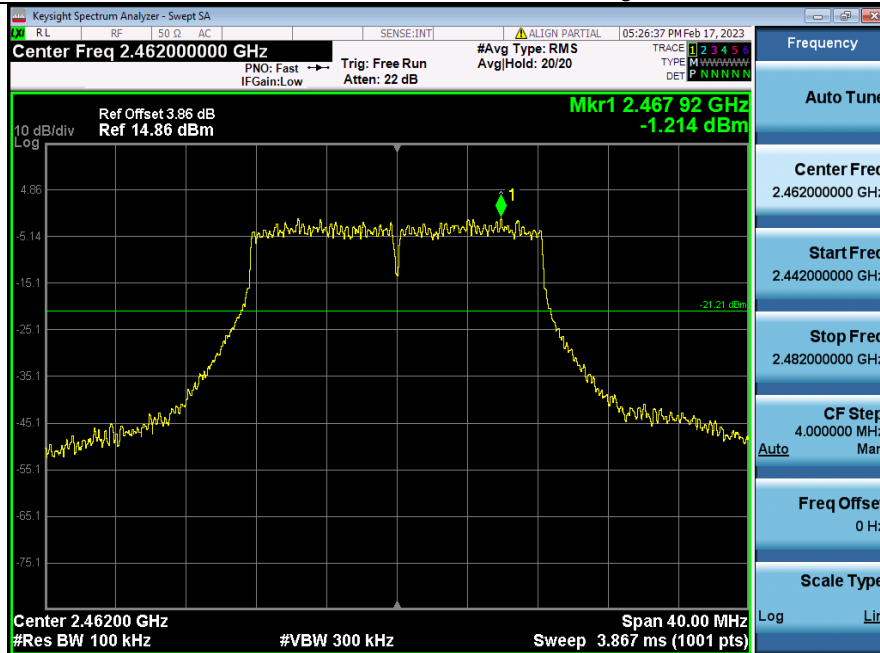
1 Reference_Level_NVNT_ANT2_802_11b_2462



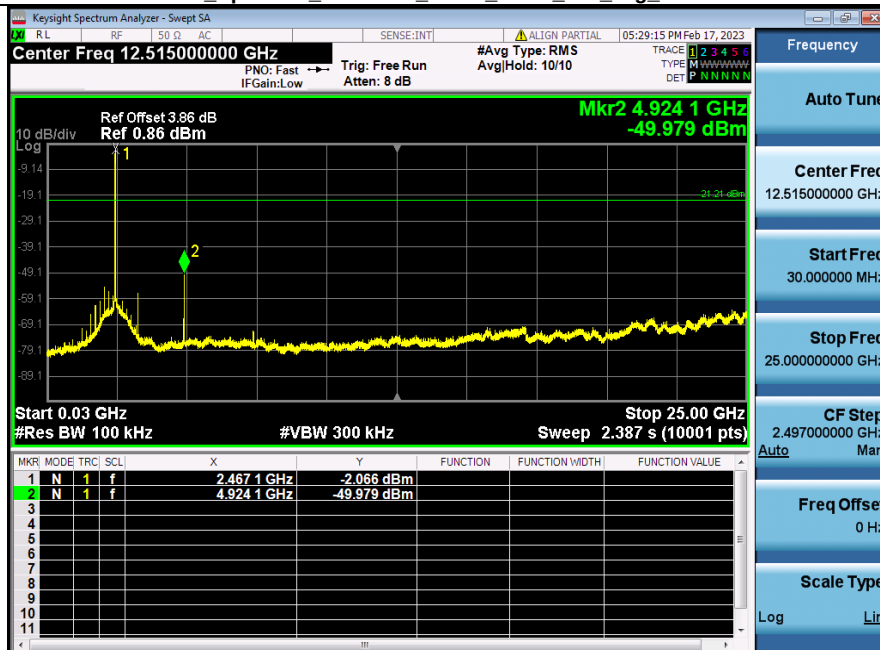
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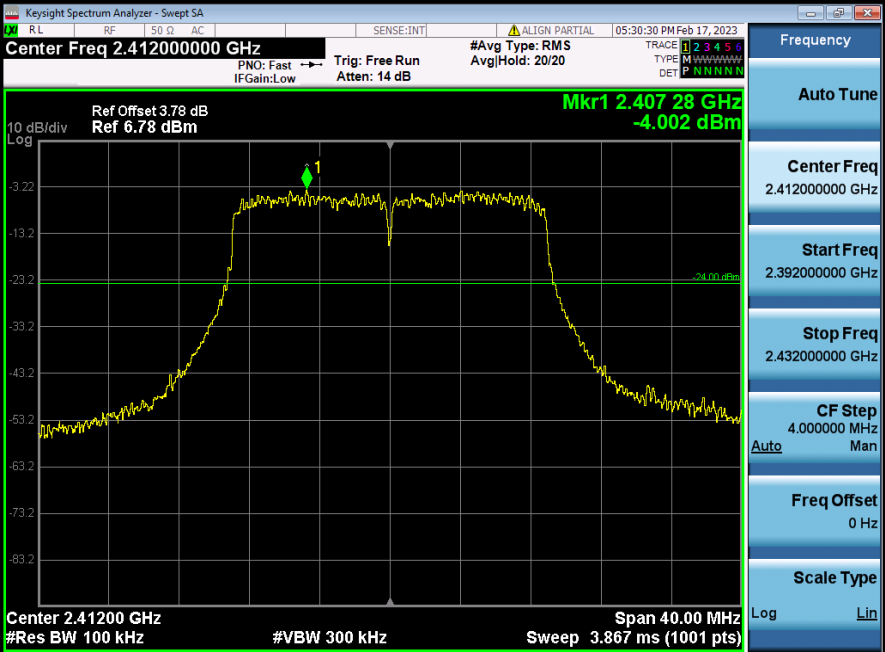
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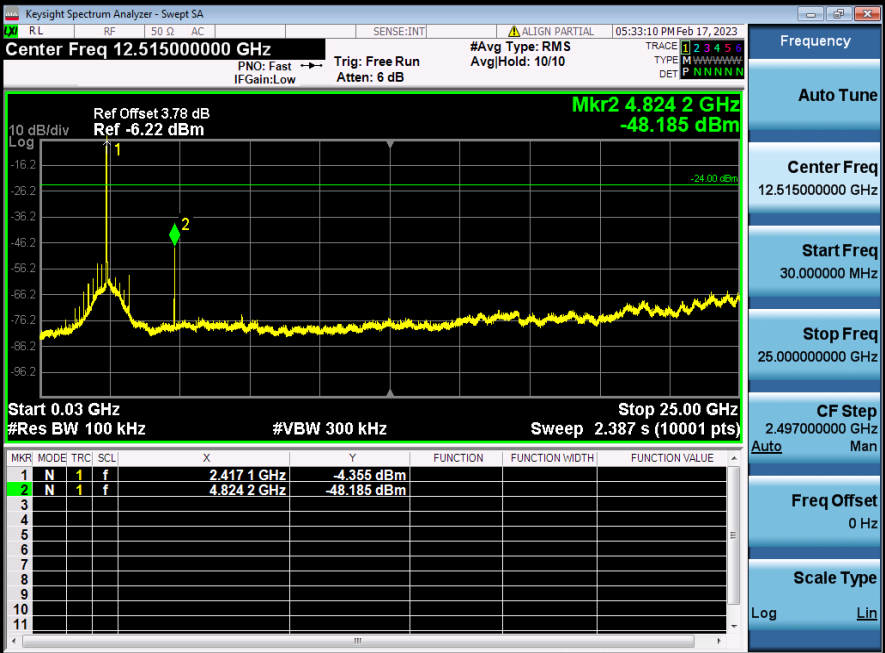
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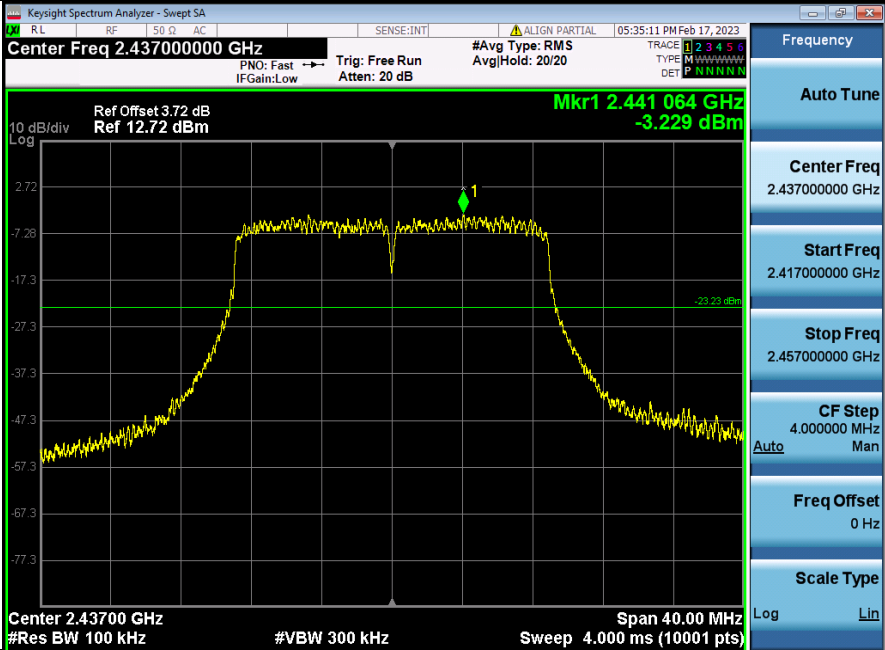
1. Reference_Level_NVNT_ANT2_802_11n(HT20)_2412



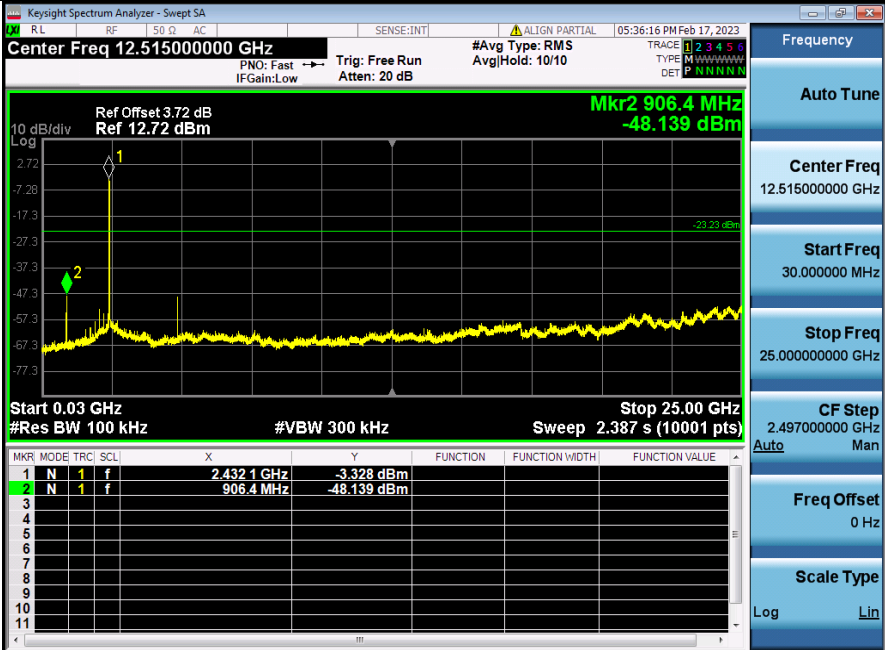
2. Spurious Emission_NVNT_ANT2_802_11n(HT20)_2412



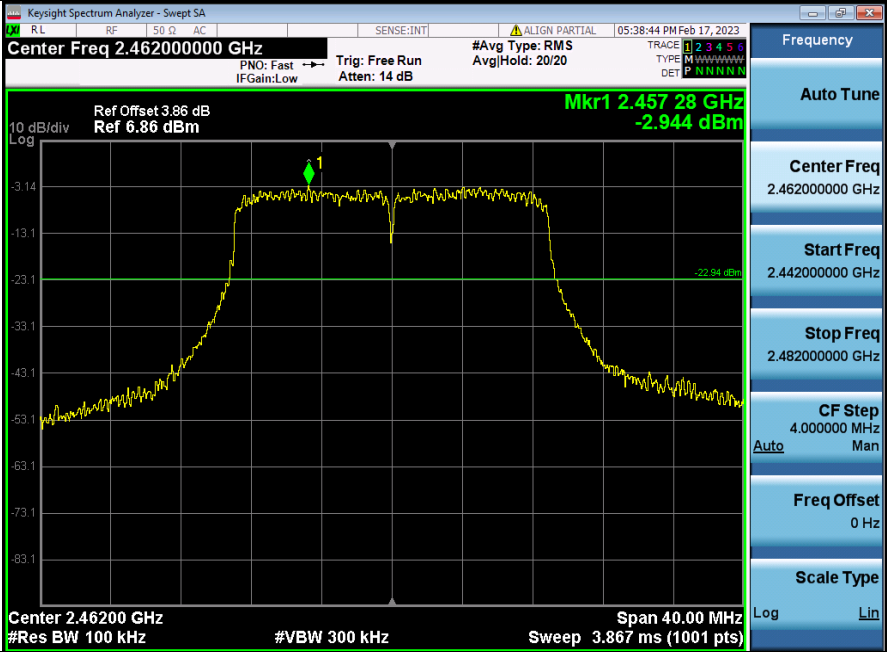
1. Reference_Level_NVNT_ANT2_802_11n(HT20)_2437



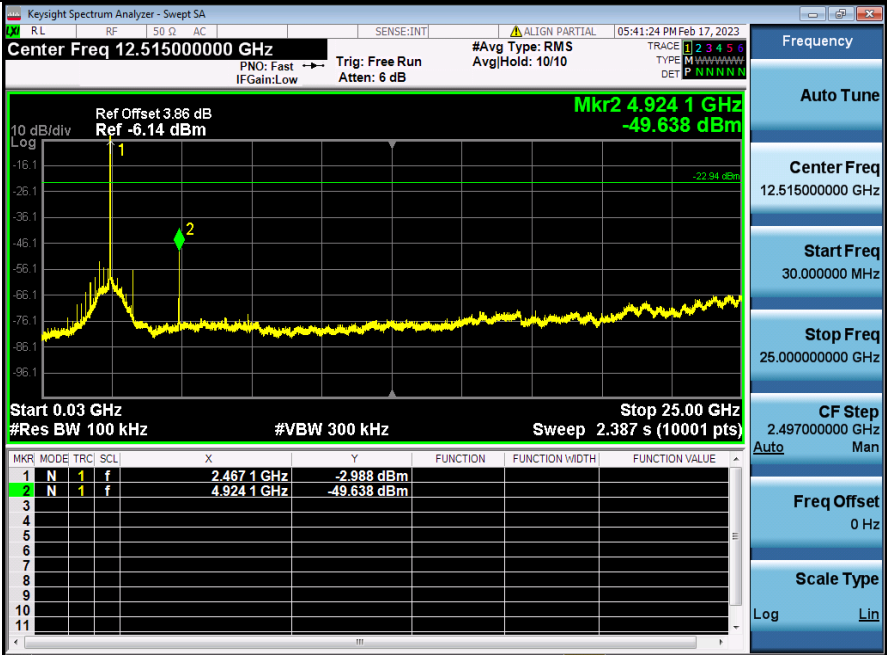
2. Spurious_Emission_NVNT_ANT2_802_11n(HT20)_2437



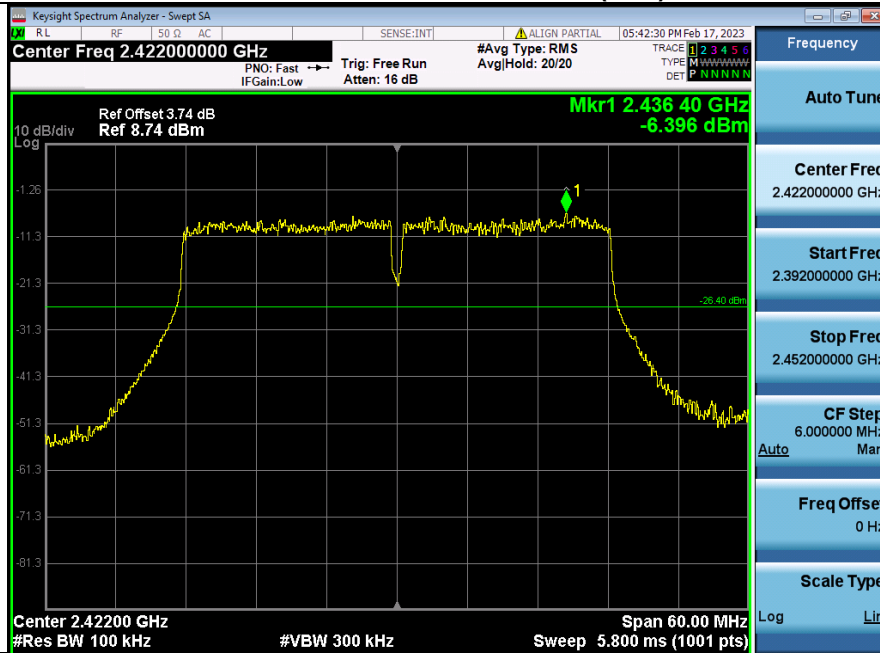
1. Reference_Level_NVNT_ANT2_802_11n(HT20)_2462



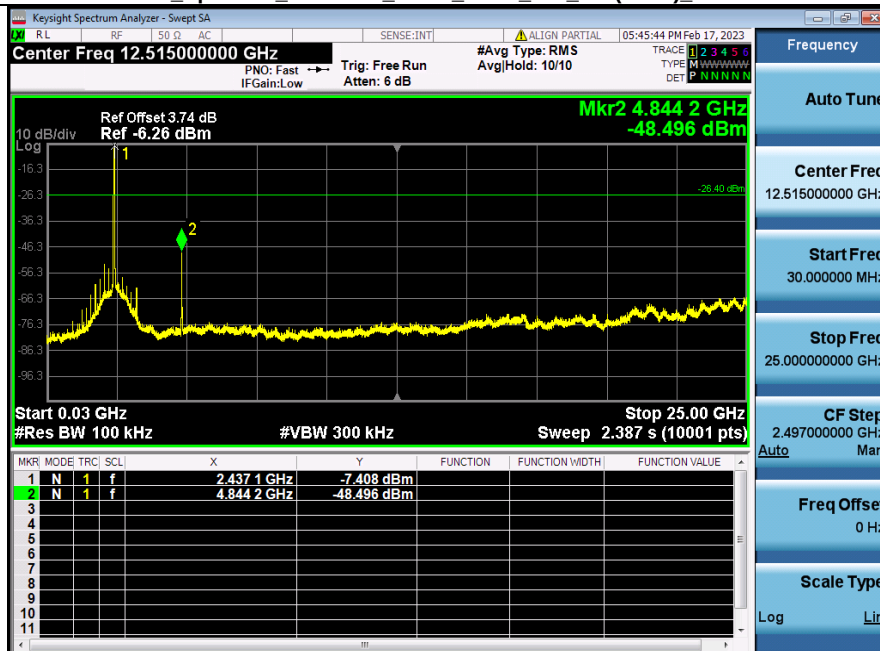
2. Spurious Emission_NVNT_ANT2_802_11n(HT20)_2462

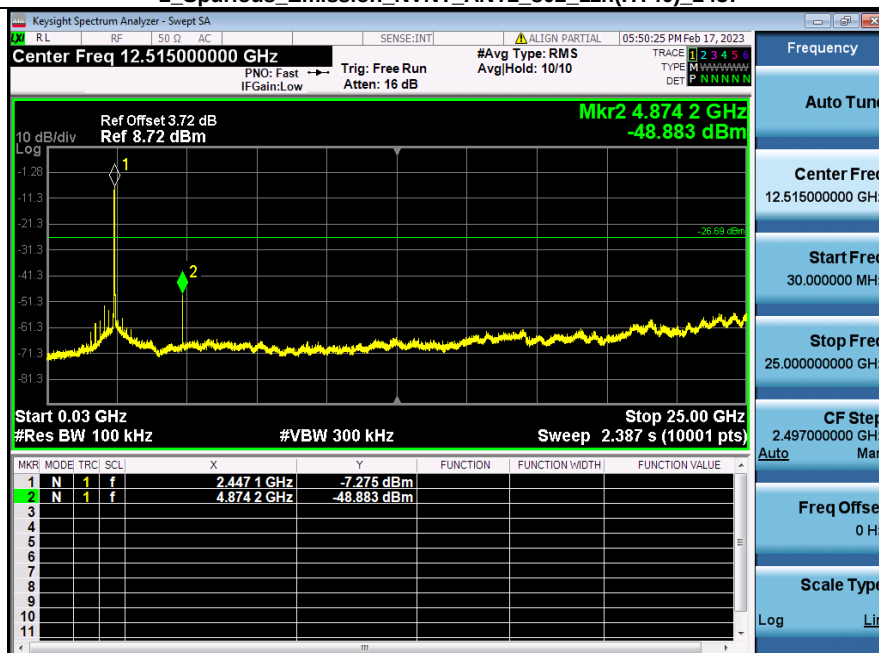
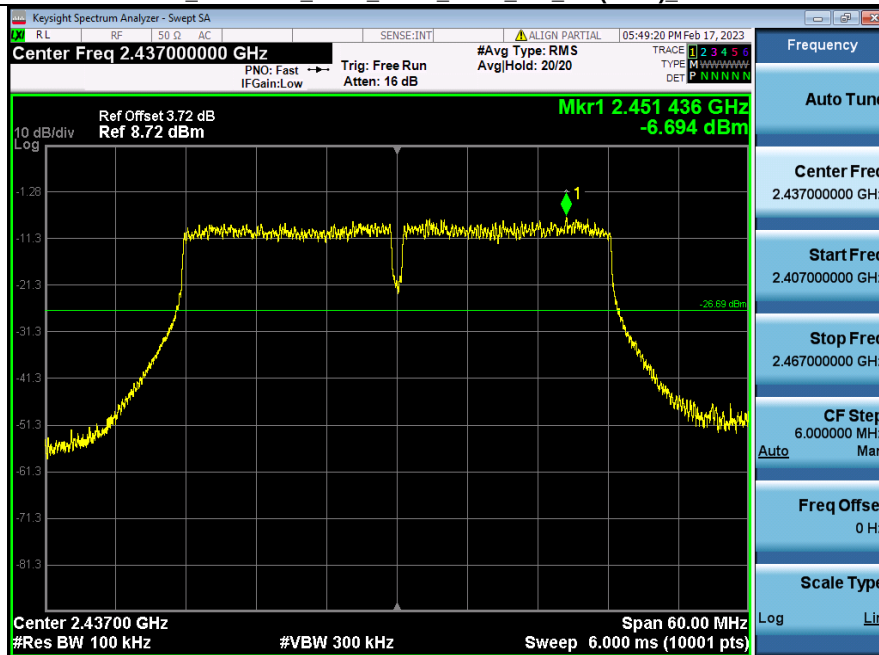


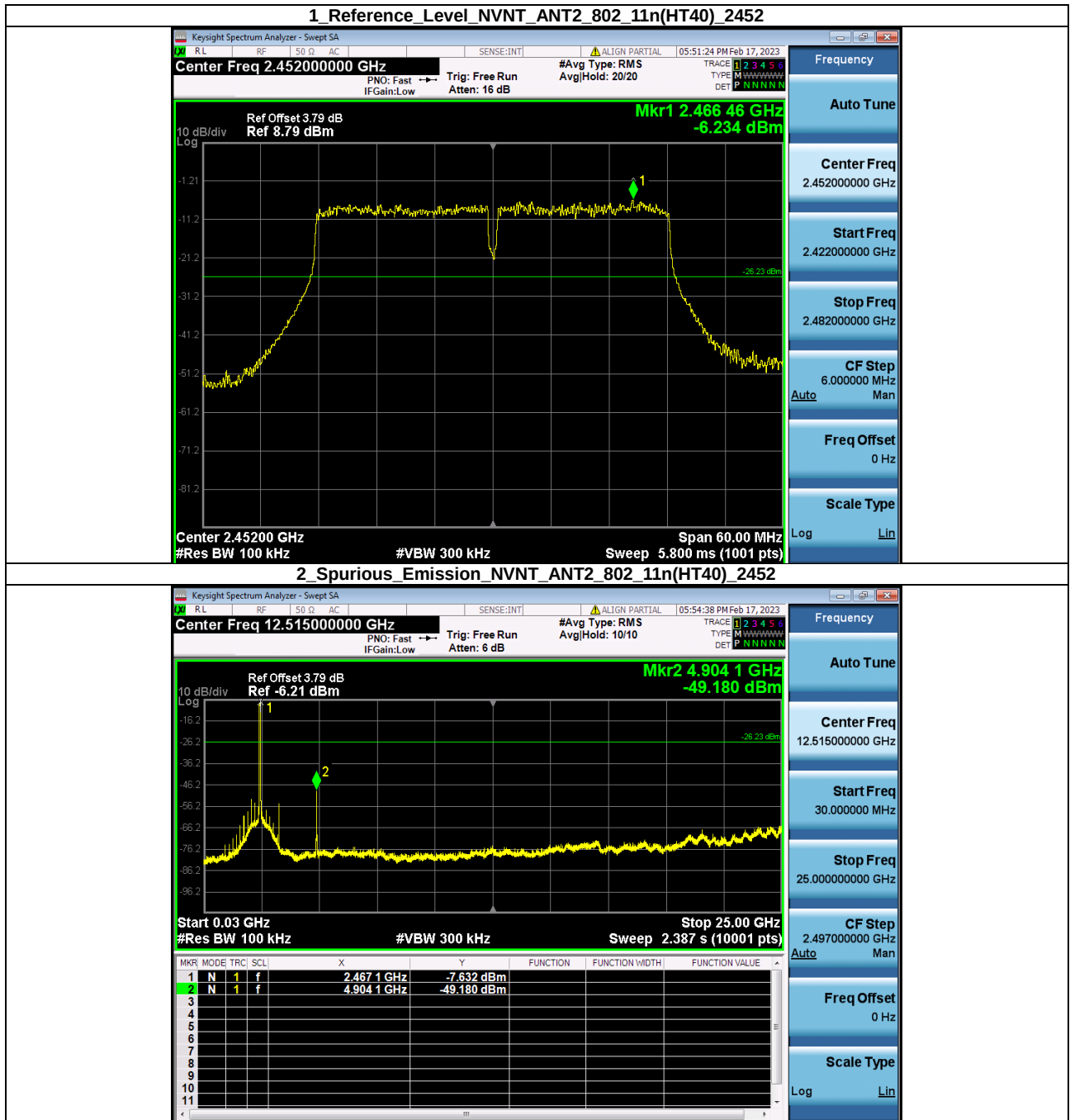
1_Reference_Level_NVNT_ANT2_802_11n(HT40)_2422



2_Spurious_Emission_NVNT_ANT2_802_11n(HT40)_2422







12. TEST SETUP PHOTO

Reference to the Test setup file for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the external photos file and internal photos file for details.

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