RF TEST REPORT

Applicant	Honor Device Co., Ltd.
FCC ID	2AYGCLGN-LX3
Product	Smart Phone
Brand	HONOR
Model	LGN-LX3
Report No.	EFTA25060265-IE-01-R12
Issue Date	August 13, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Prepared by: Xu Ying   *Approved by: Xu Kai*

TABLE OF CONTENT

Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Maximum output power	15.247(b)(3)	PASS
2	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: June 10, 2025 ~ July 24, 2025 Date of Sample Received: June 16, 2025			
Note: All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the Test Report

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1.2. Test Facility

A2LA (Certificate Number: 3857.01)
Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3. Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
Post code:	201201
Country:	P. R. China
Contact:	Xu Kai
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	https://www.eurofins.com/electrical-and-electronics
E-mail:	Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. General Information

EUT Description		
Model	LGN-LX3	
SN	Conducted	ANYQJV5624G00182
	Radiated	ANYQJV5624G00017
Hardware Version	HL1LGNM	
Software Version	9.0.0.88(C900E15R1P1)GPU Turbo	
Power Supply	Battery / AC;DC adapter	
Antenna Type	Integrated Antenna	
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)	
Antenna Gain	-2.50 dBi	
Additional Beamforming Gain	NA	
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz Bluetooth LE V5.0: 2402 ~2480 MHz	
Modulation Type	802.11b: DSSS 802.11g/n: OFDM Bluetooth LE: GFSK	
Max. Output Power	Wi-Fi 2.4GHz: 17.87 dBm Bluetooth LE: 6.95 dBm	
Operating voltage range	3.50 Vdc to 4.53 Vdc	
State voltage	3.92 Vdc	
EUT Accessory		

Accessory	Model	Manufacture	No.
Adapter	HN-110320U00	Honor Device Co., Ltd. (Huntkey)	1
	HN-110320B00		2
	HN-110320E00		3
	HN-110320U01	Honor Device Co., Ltd. (Aohai)	4
	HN-110320B01		5

	HN-110320E01		6
Battery	HB5168A4EIW-A	Honor Device Co., Ltd.（SCUD)	1
		Honor Device Co., Ltd. (COSMX)	2
USB Cable	AU2-CRO013HF	04072295(LJ)	1
	RY0002	04072295(NB)	2
	L125UC007-CS-H	04072295(LX)	3
	2120-00001-0	04072295(MG)	4

Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15C (2024) Radio Frequency Devices

ANSI C63.10-2013

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
Bluetooth (Low Energy)	1Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

5. Test Case Results

5.1. Maximum output power

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

Test Setup
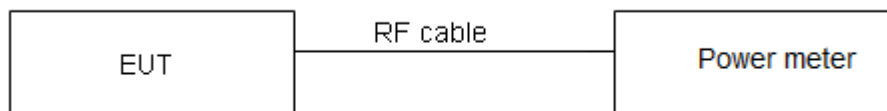
Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

| Average Output Power	≤ 1W (30dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

Test Results

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11b	0.991	0
802.11g	0.981	0
802.11n HT20	0.981	0
802.11n HT40	0.949	0.23
Bluetooth LE	0.628	2.02
Note: when Duty cycle≥0.98, Duty cycle correction Factor not required.		

Test Mode	Carrier frequency (MHz)/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH1	17.72	17.72	30	PASS
	2437/CH6	17.49	17.49	30	PASS
	2462/CH11	17.87	17.87	30	PASS
802.11g	2412/CH1	14.03	14.03	30	PASS
	2417/CH2	16.22	16.22	30	PASS
	2427/CH4	17.43	17.43	30	PASS
	2437/CH6	17.30	17.30	30	PASS
	2452/CH9	16.54	16.54	30	PASS
	2457/CH10	15.08	15.08	30	PASS
	2462/CH11	14.42	14.42	30	PASS
802.11n HT20	2412/CH1	13.96	13.96	30	PASS
	2417/CH2	16.20	16.20	30	PASS
	2427/CH4	17.48	17.48	30	PASS
	2437/CH6	17.28	17.28	30	PASS
	2452/CH9	16.38	16.38	30	PASS
	2457/CH10	14.92	14.92	30	PASS
	2462/CH11	14.24	14.24	30	PASS
802.11n HT40	2422/CH3	12.99	13.22	30	PASS
	2427/CH4	13.28	13.51	30	PASS
	2432/CH5	14.72	14.95	30	PASS
	2437/CH6	14.42	14.65	30	PASS
	2442/CH7	14.21	14.44	30	PASS
	2447CH8	13.55	13.78	30	PASS
	2452/CH9	13.00	13.23	30	PASS
Bluetooth (Low Energy)	2402/CH0	3.78	5.80	30	PASS
	2440/CH19	4.87	6.89	30	PASS
	2480/CH39	4.93	6.95	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer. Dector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup
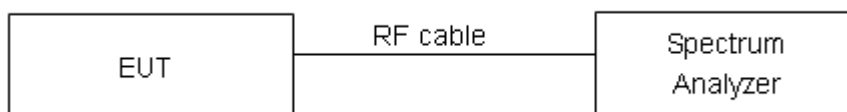
Limits

Rule Part 15.247 (a) (2) specifies that "Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz."

minimum 6 dB bandwidth	≥ 500 kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

Test Results:

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	13.828	8.067	500	PASS
	2437	13.973	9.032	500	PASS
	2462	13.795	8.571	500	PASS
802.11g	2412	17.800	13.849	500	PASS
	2417	17.773	12.250	500	PASS
	2427	17.822	15.103	500	PASS
	2437	17.910	16.283	500	PASS
	2452	16.680	16.019	500	PASS
	2457	16.684	16.308	500	PASS
	2462	16.650	15.084	500	PASS
802.11n HT20	2412	17.819	16.909	500	PASS
	2417	17.777	16.416	500	PASS
	2427	17.824	13.891	500	PASS
	2437	17.920	16.889	500	PASS
	2452	17.809	15.560	500	PASS
	2457	17.801	15.033	500	PASS
	2462	17.766	15.295	500	PASS
802.11n HT40	2422	36.113	32.616	500	PASS
	2427	36.215	35.306	500	PASS
	2432	36.303	35.051	500	PASS
	2437	36.389	36.309	500	PASS
	2442	36.443	36.262	500	PASS
	2447	36.293	35.664	500	PASS
	2452	36.257	33.830	500	PASS
Bluetooth (Low Energy)	2402	1.041	0.643	500	PASS
	2440	1.031	0.648	500	PASS
	2480	1.038	0.708	500	PASS

99%bandwidth

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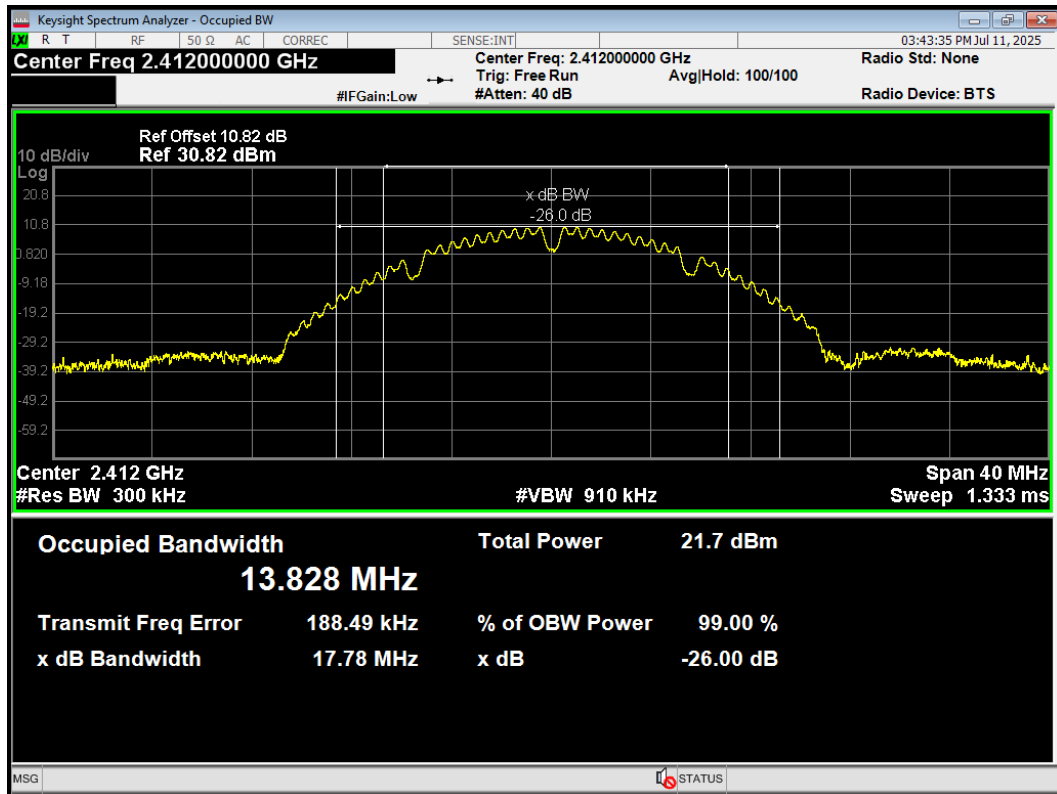
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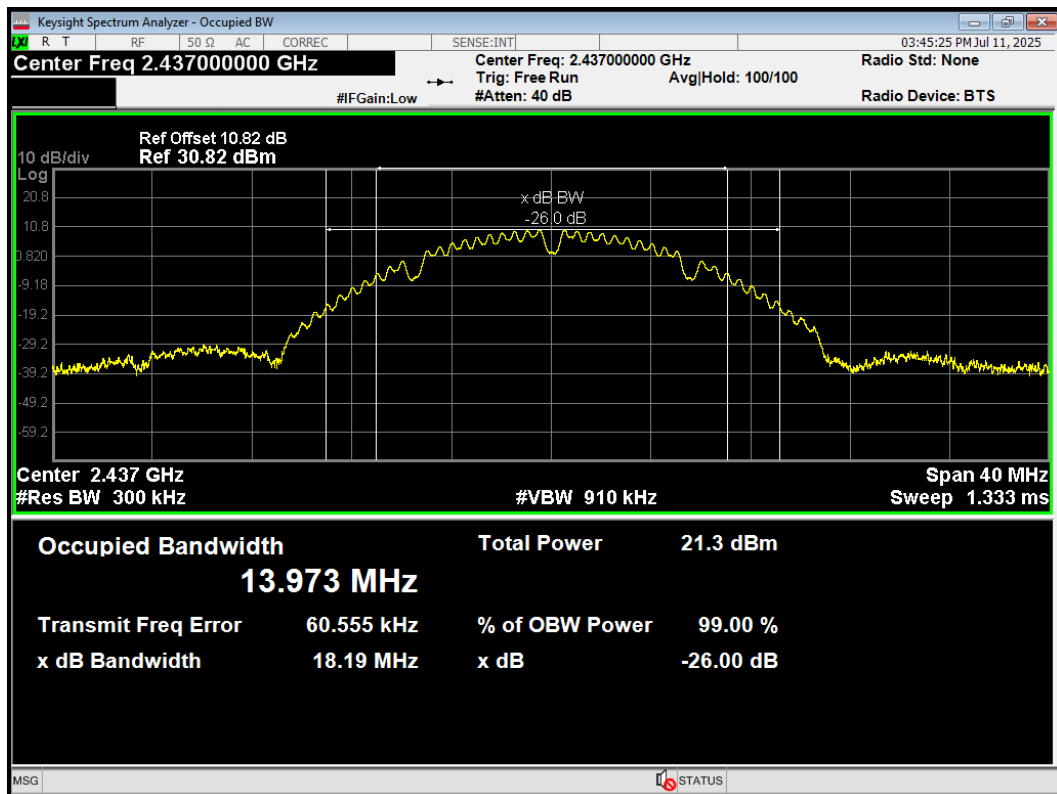
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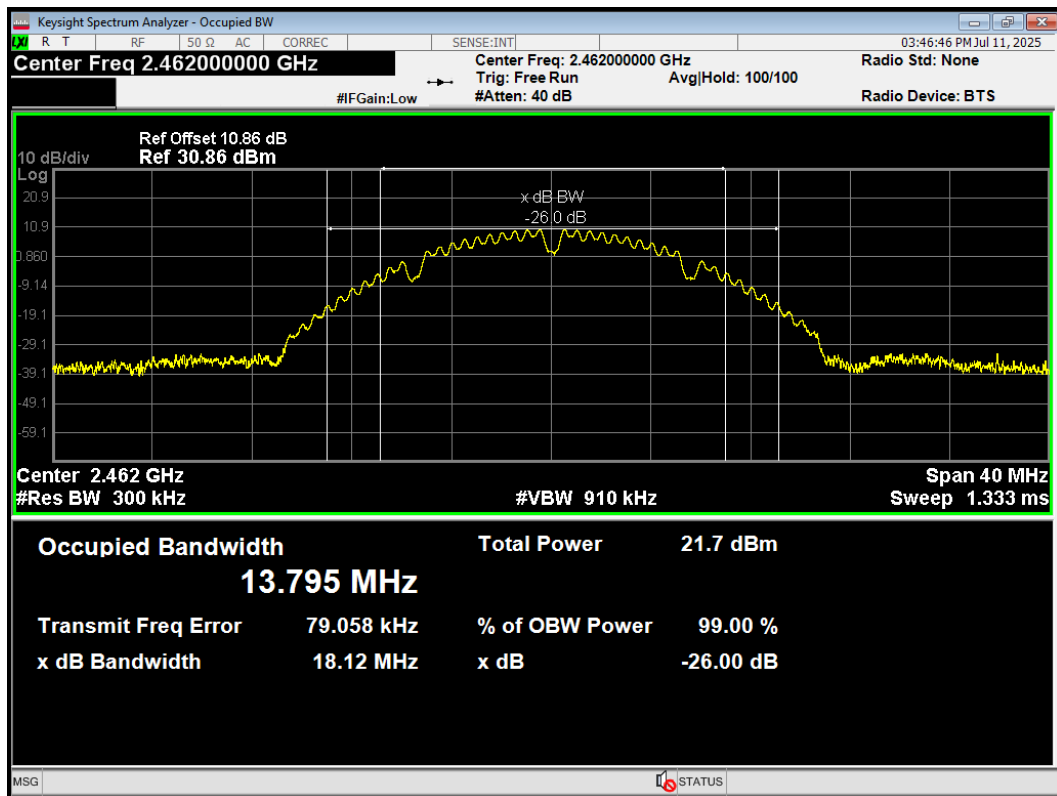
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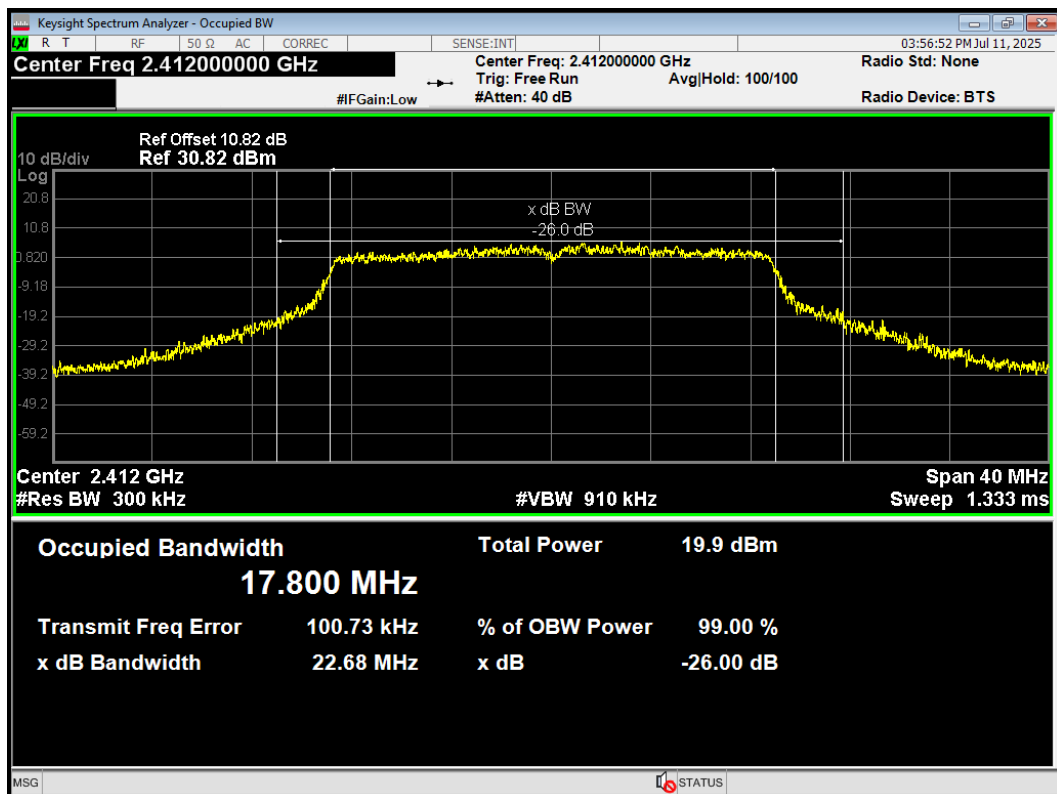
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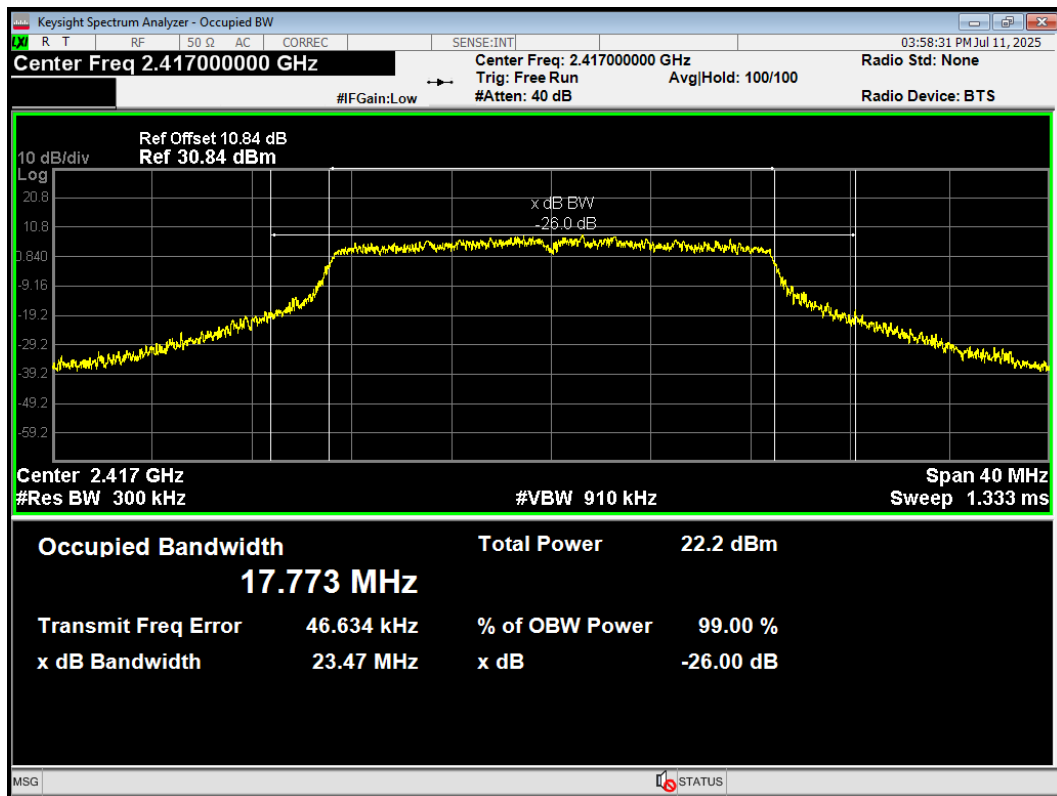
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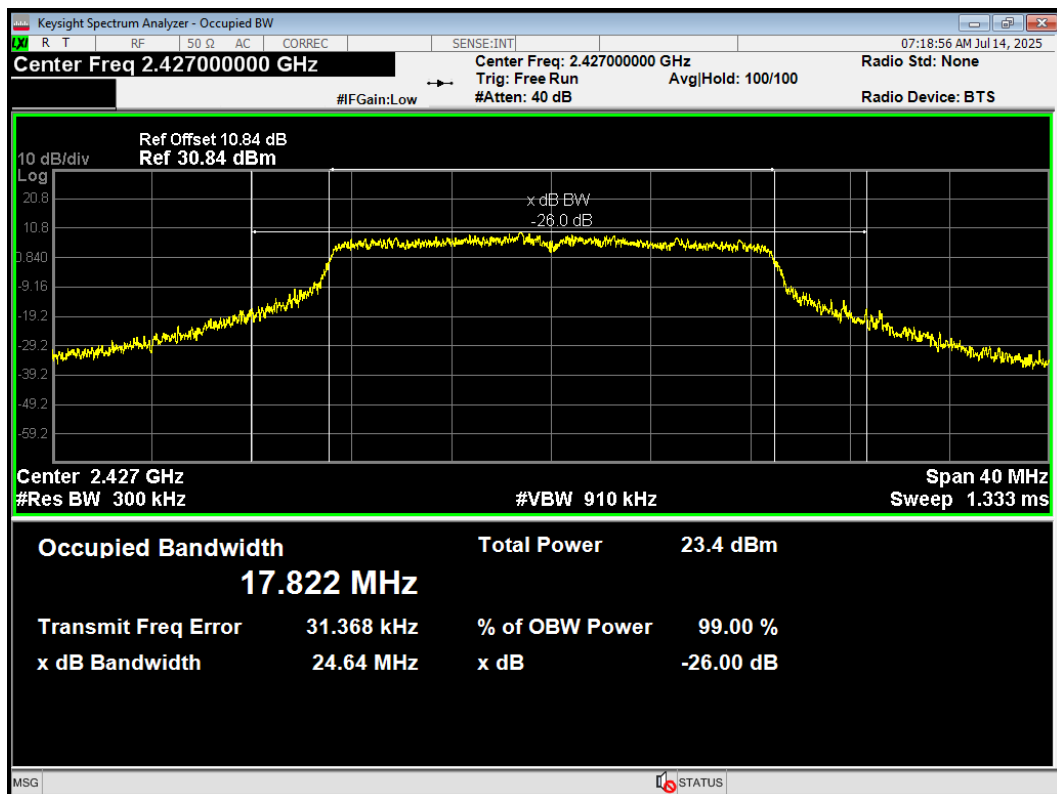
OBW 802.11g 2437MHz

OBW 802.11g 2452MHz

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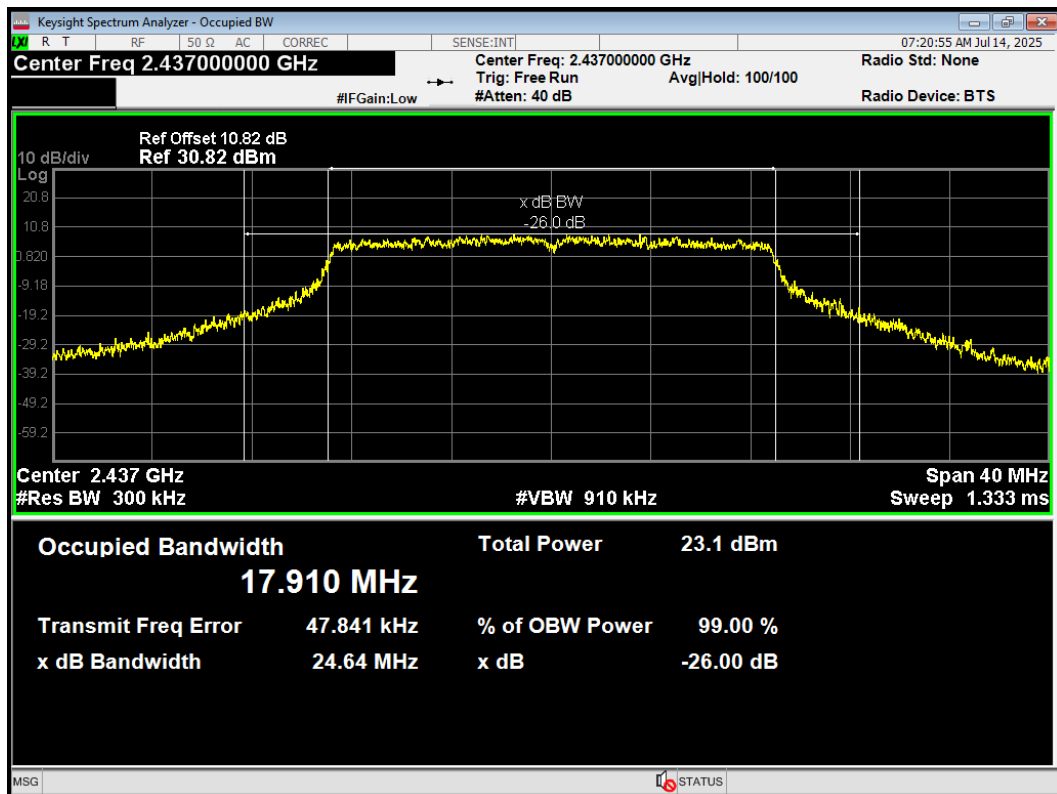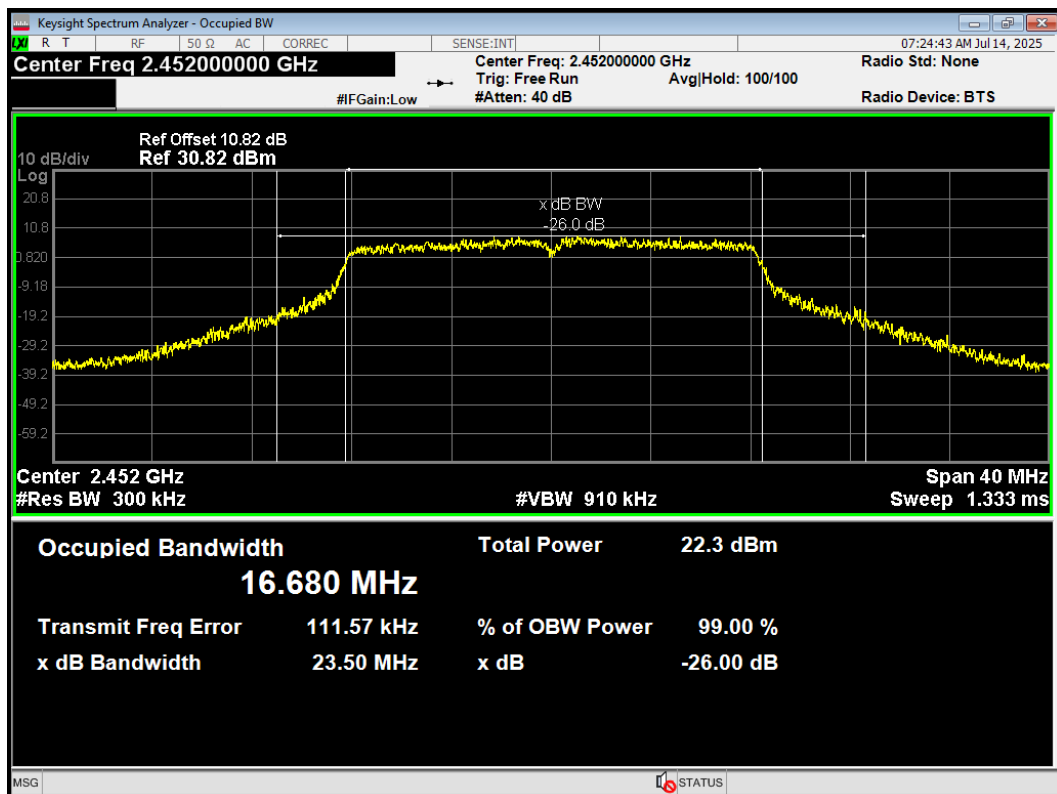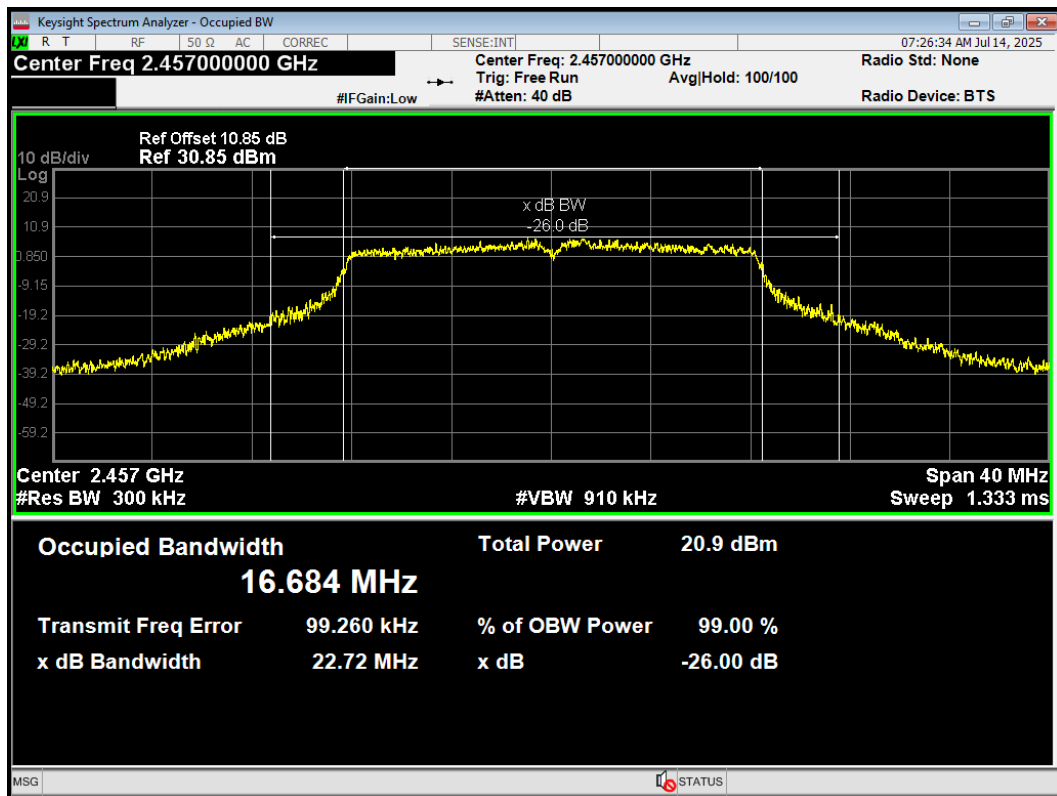
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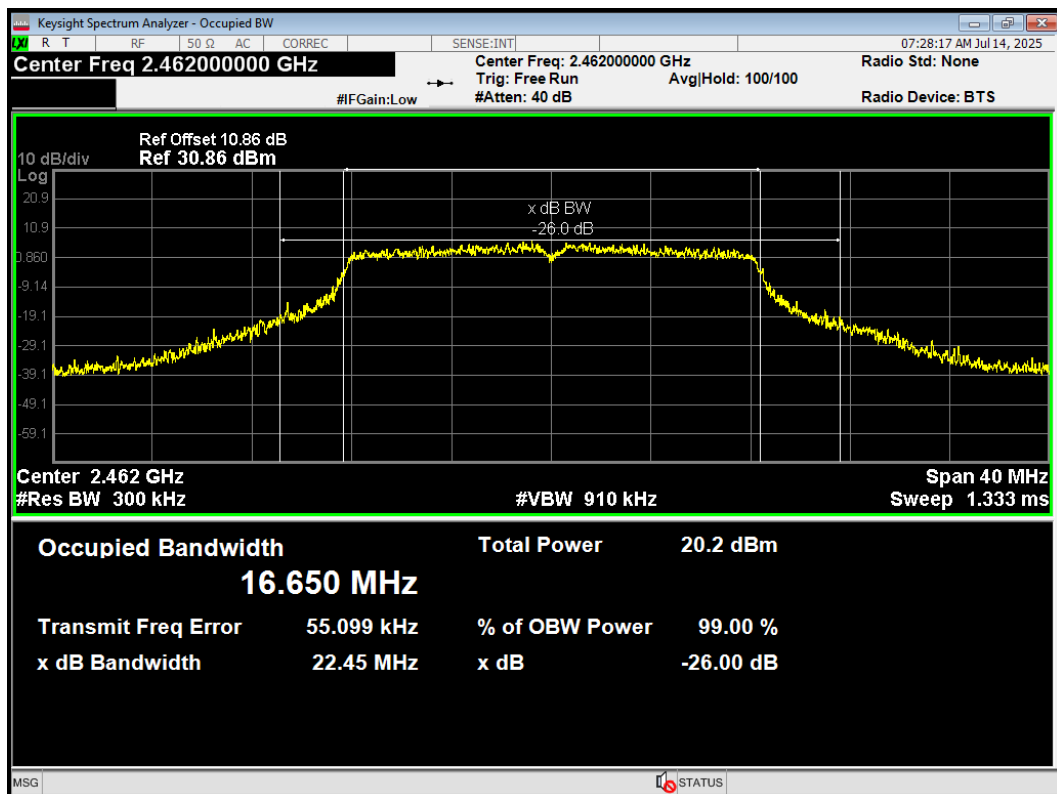
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OBW 802.11n(HT20) 2417MHz

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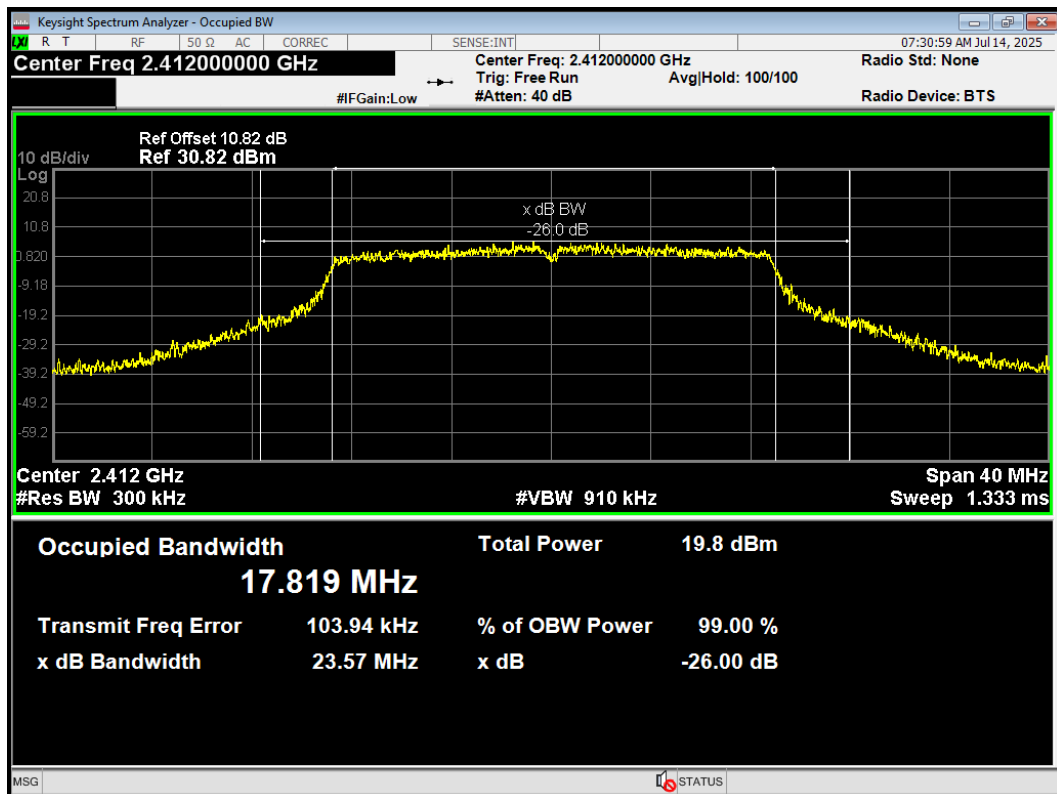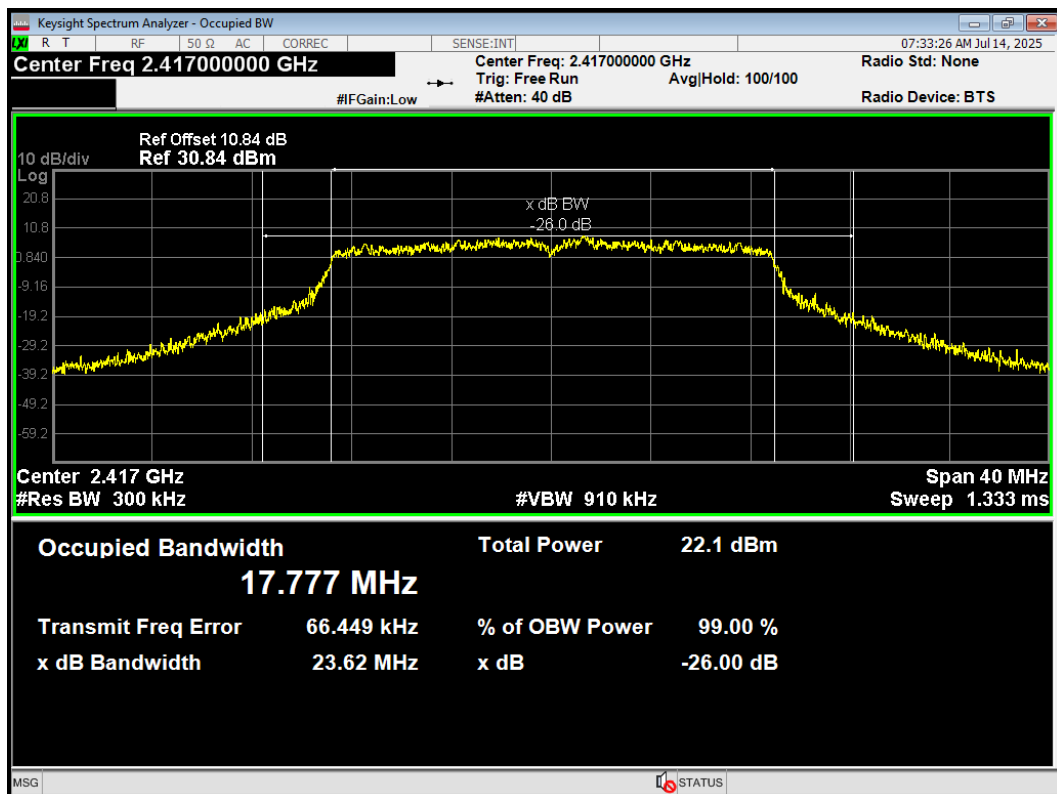
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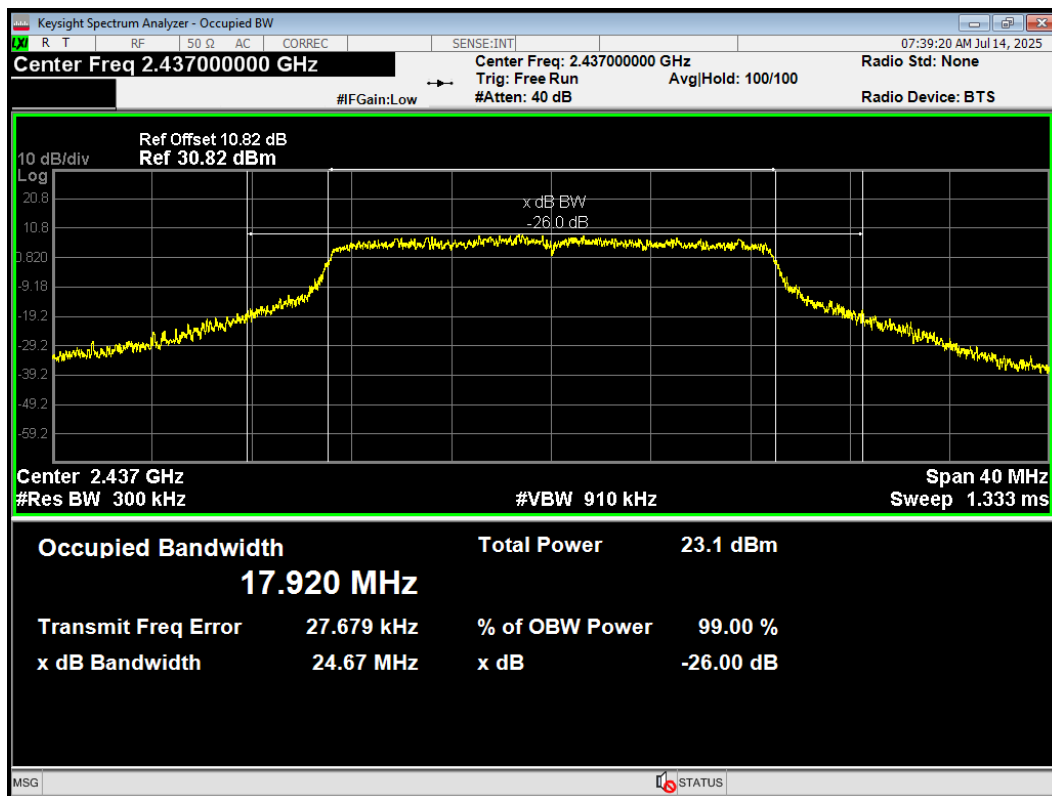
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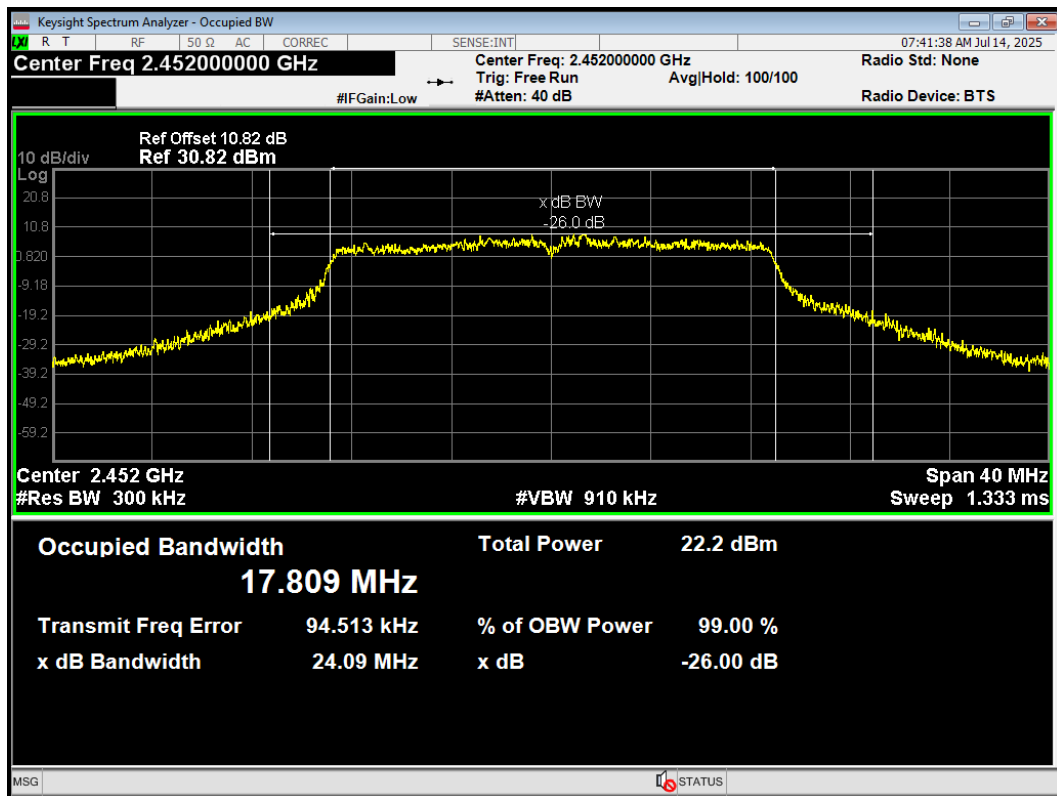
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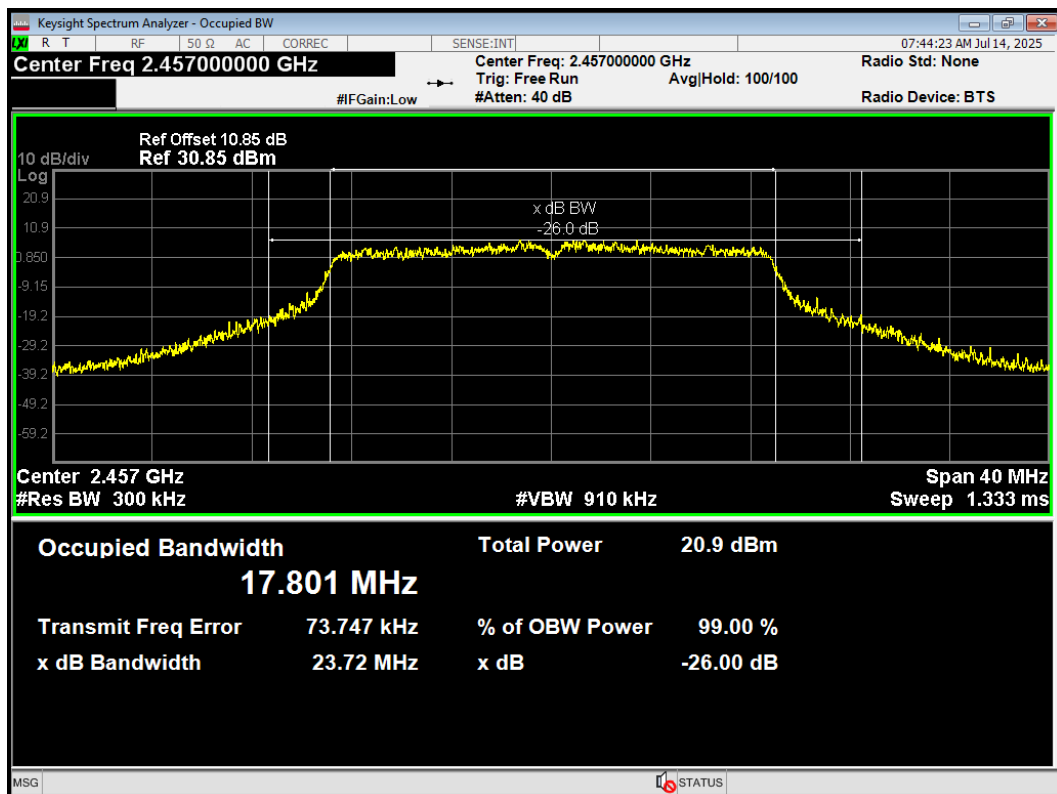
OBW 802.11n(HT20) 2462MHz

OBW 802.11n(HT40) 2422MHz

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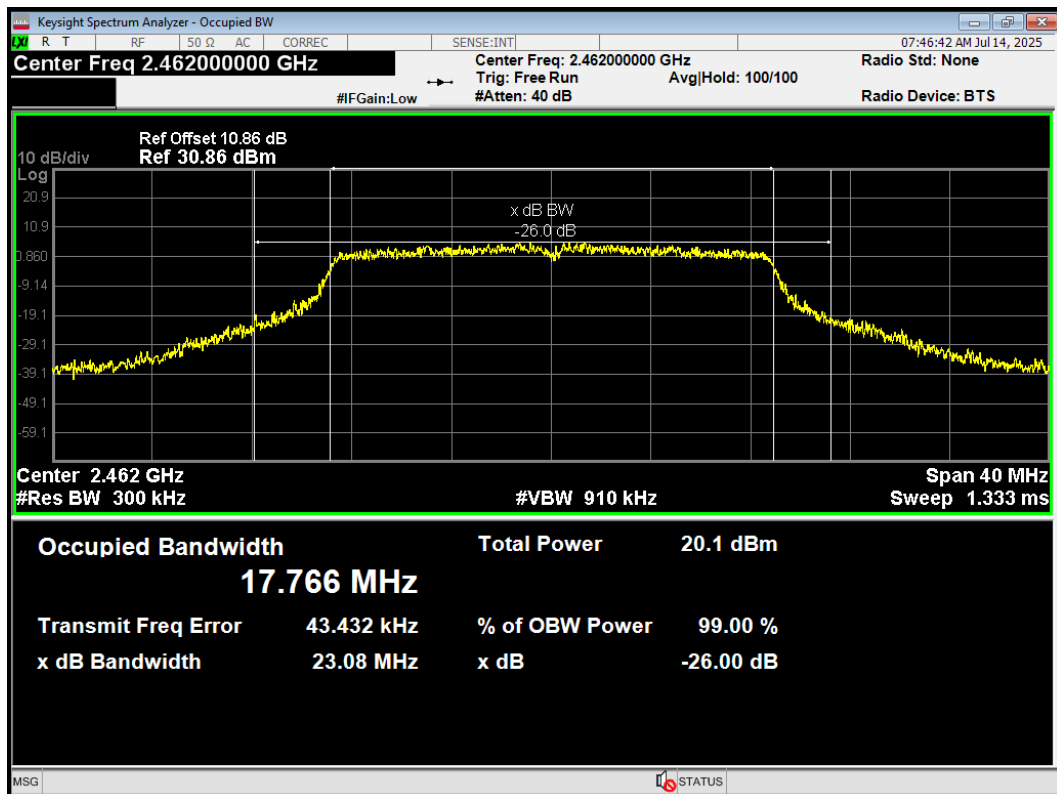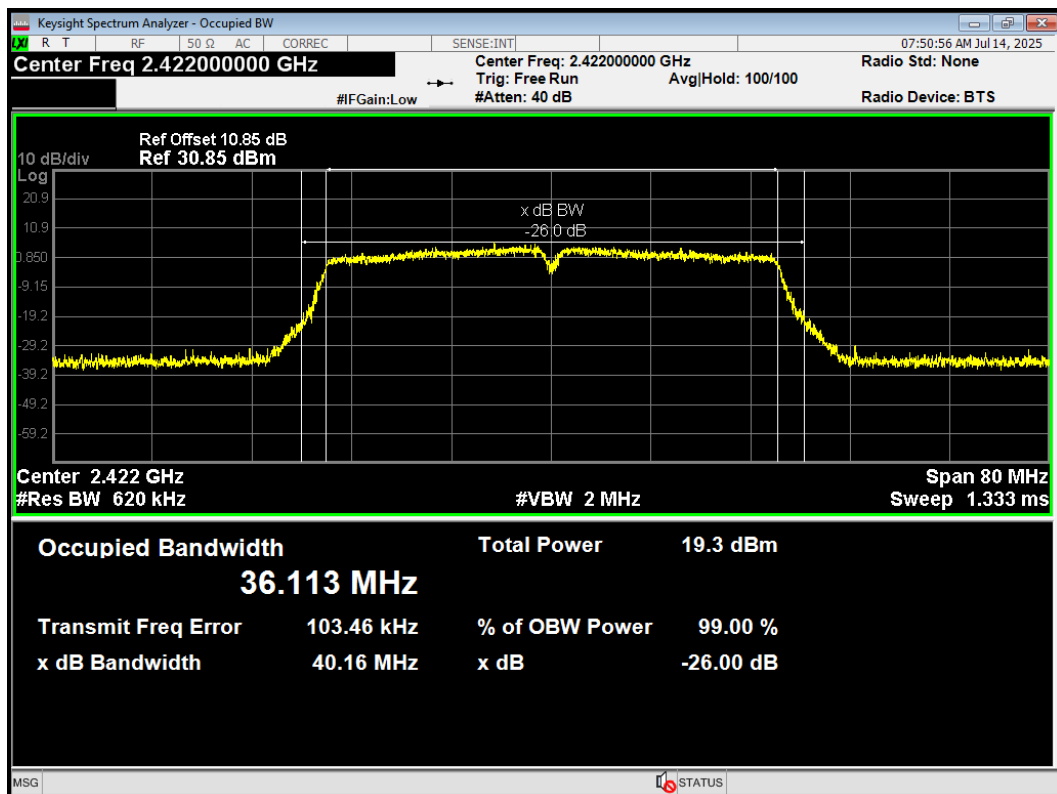
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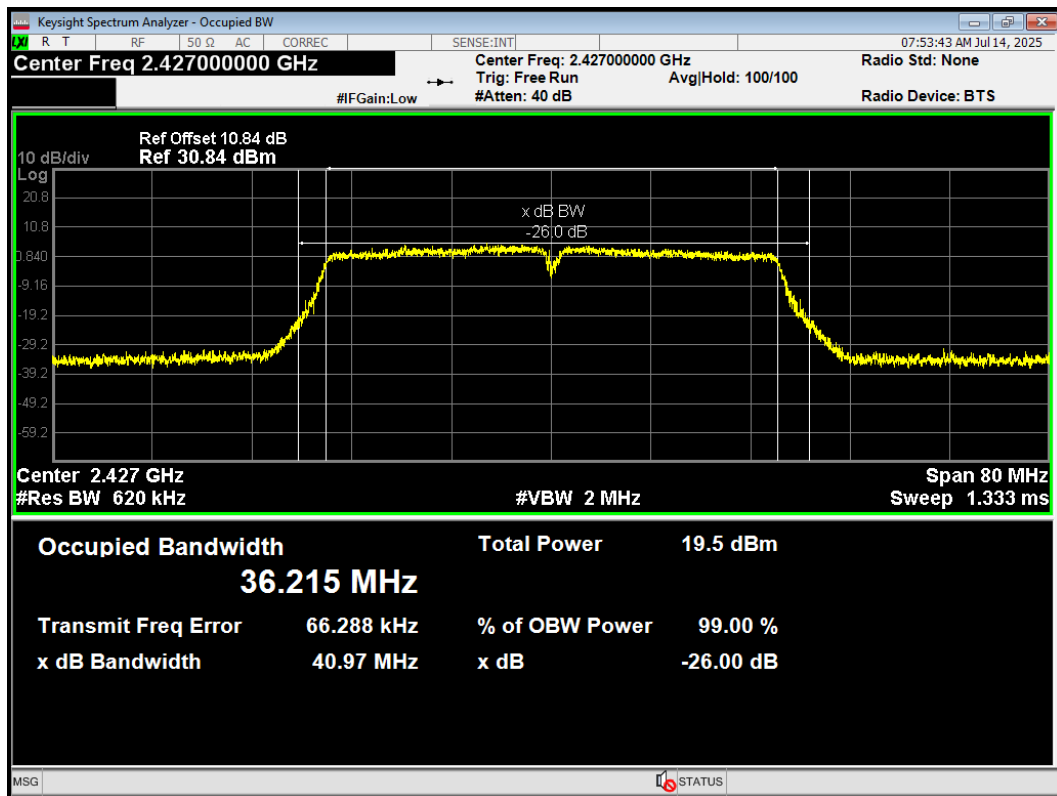
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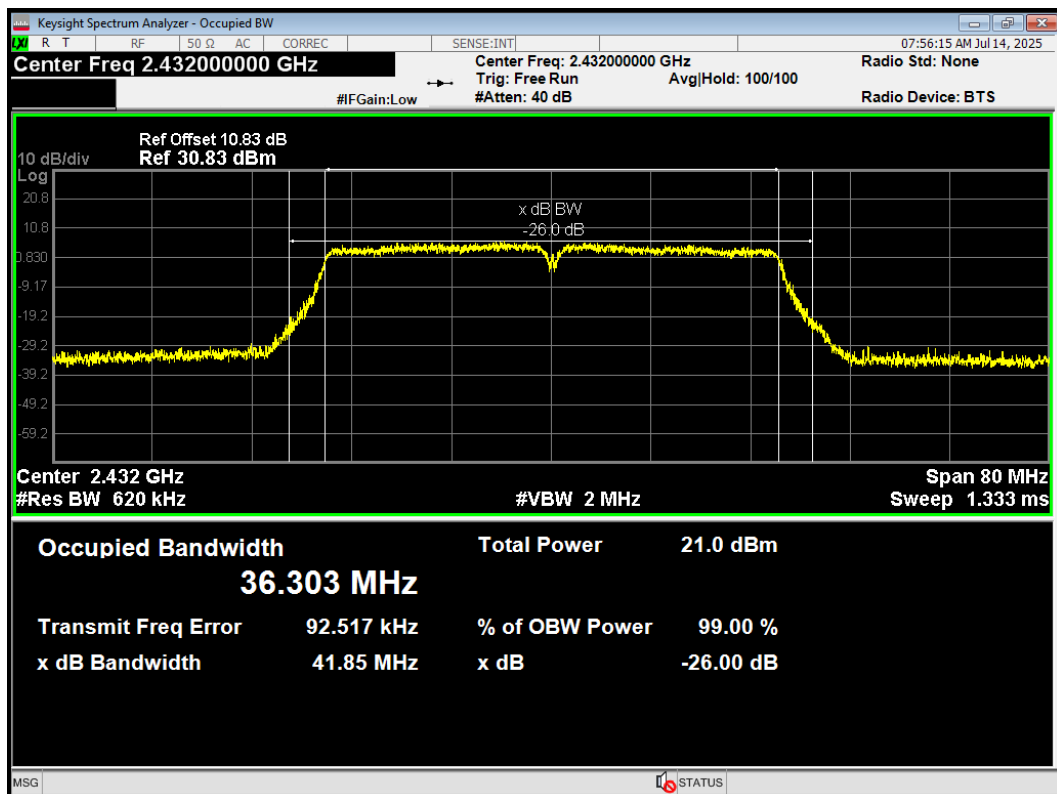
OBW 802.11n(HT40) 2437MHz

OBW 802.11n(HT40) 2442MHz

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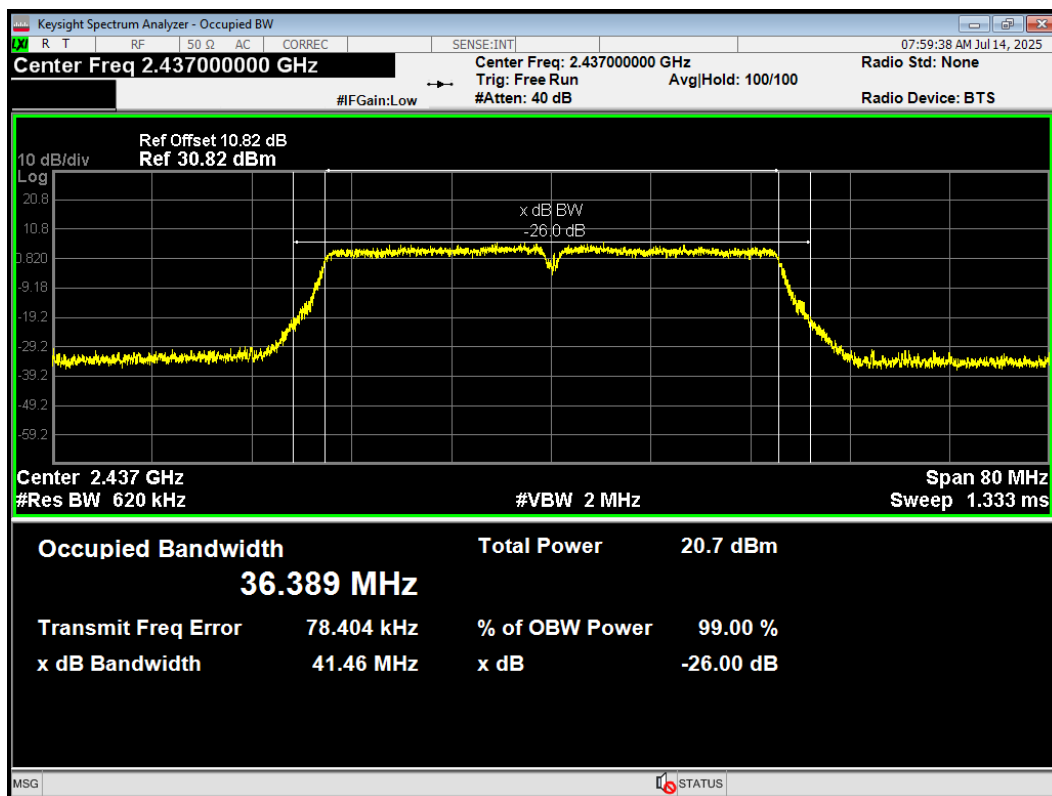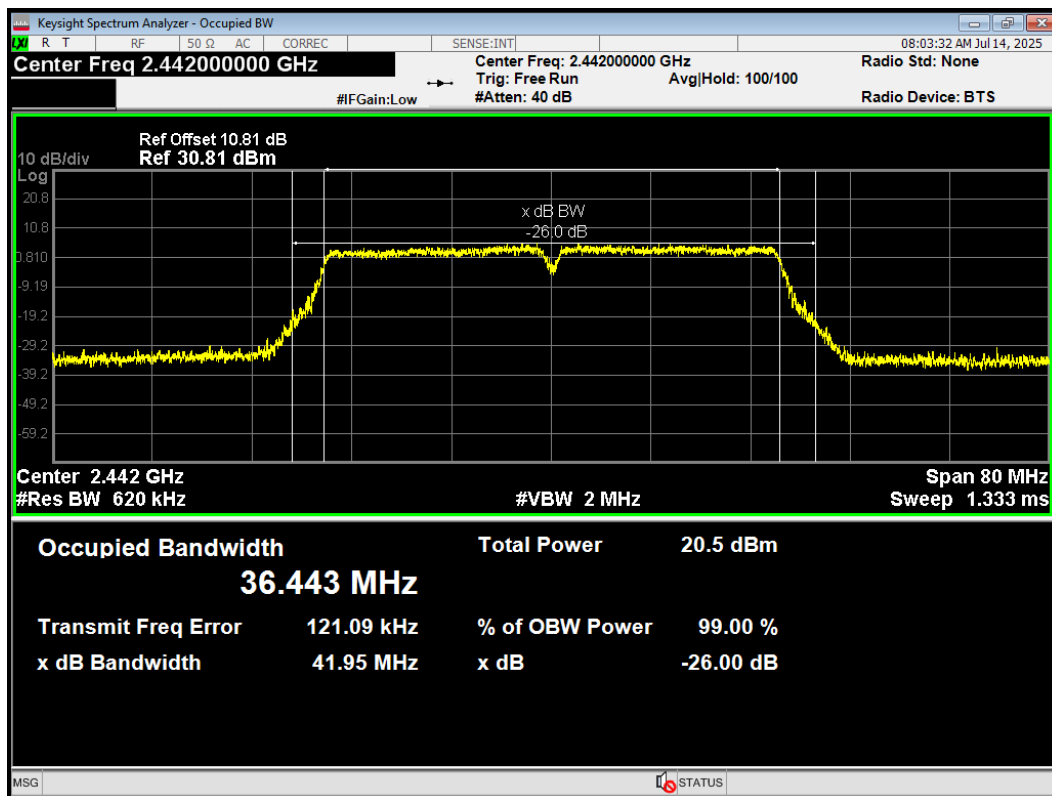
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OBW 802.11n(HT40) 2452MHz

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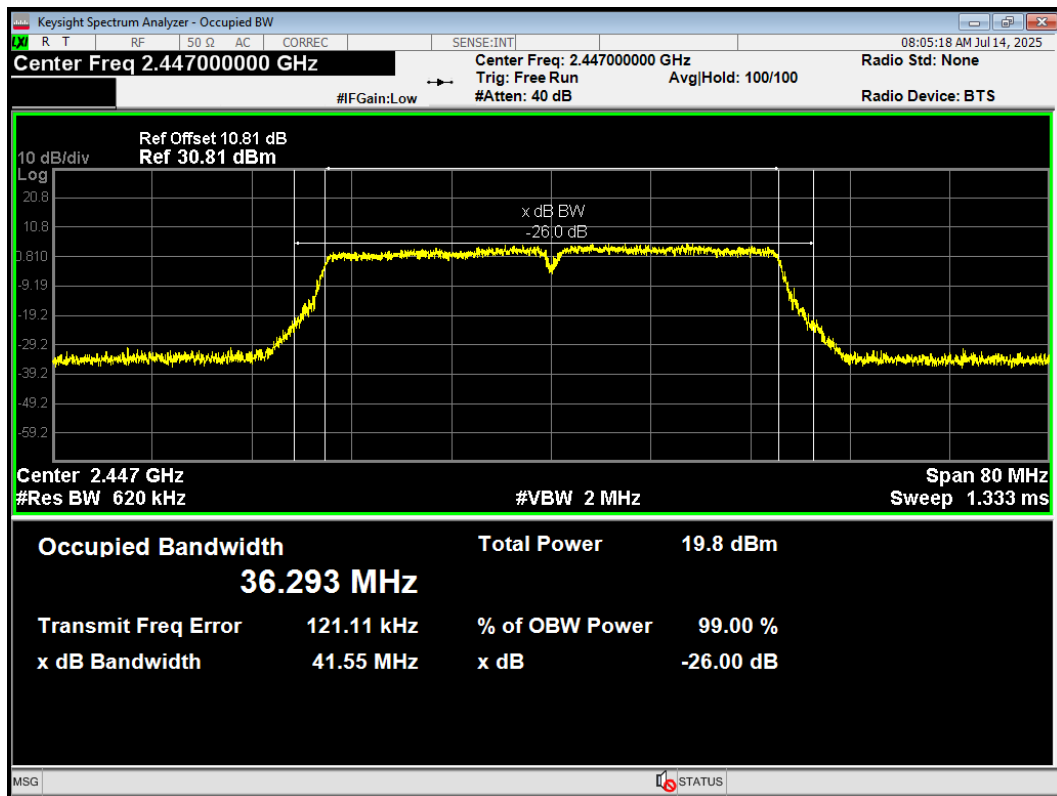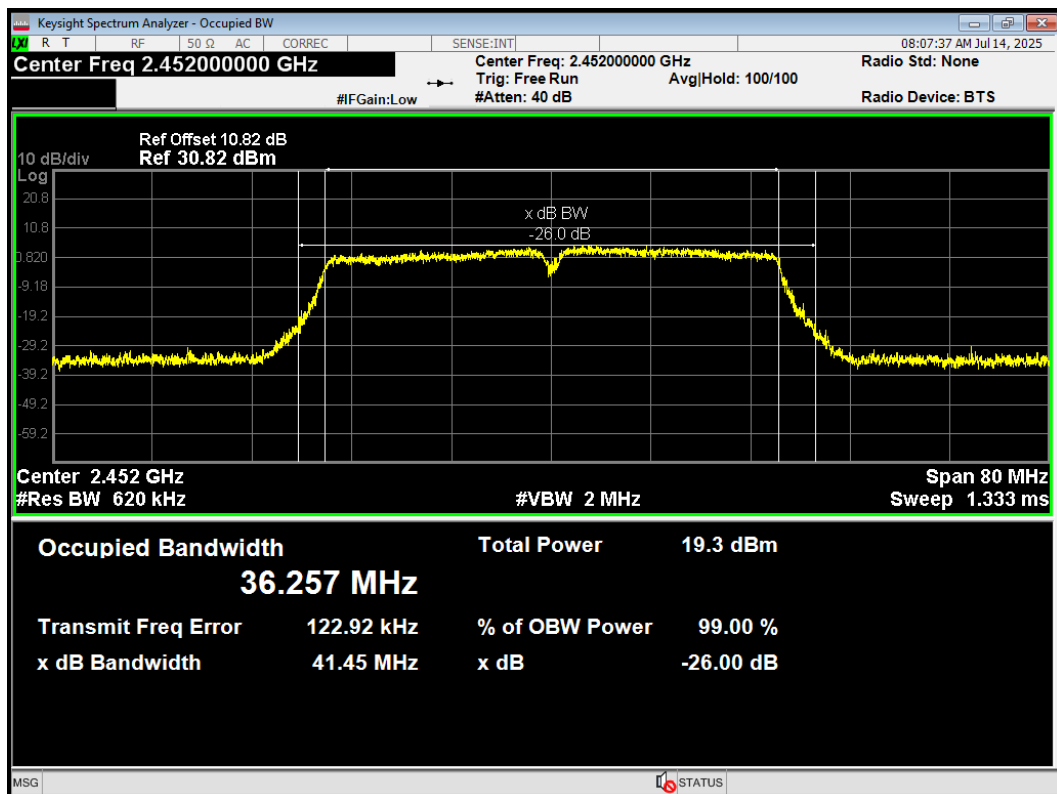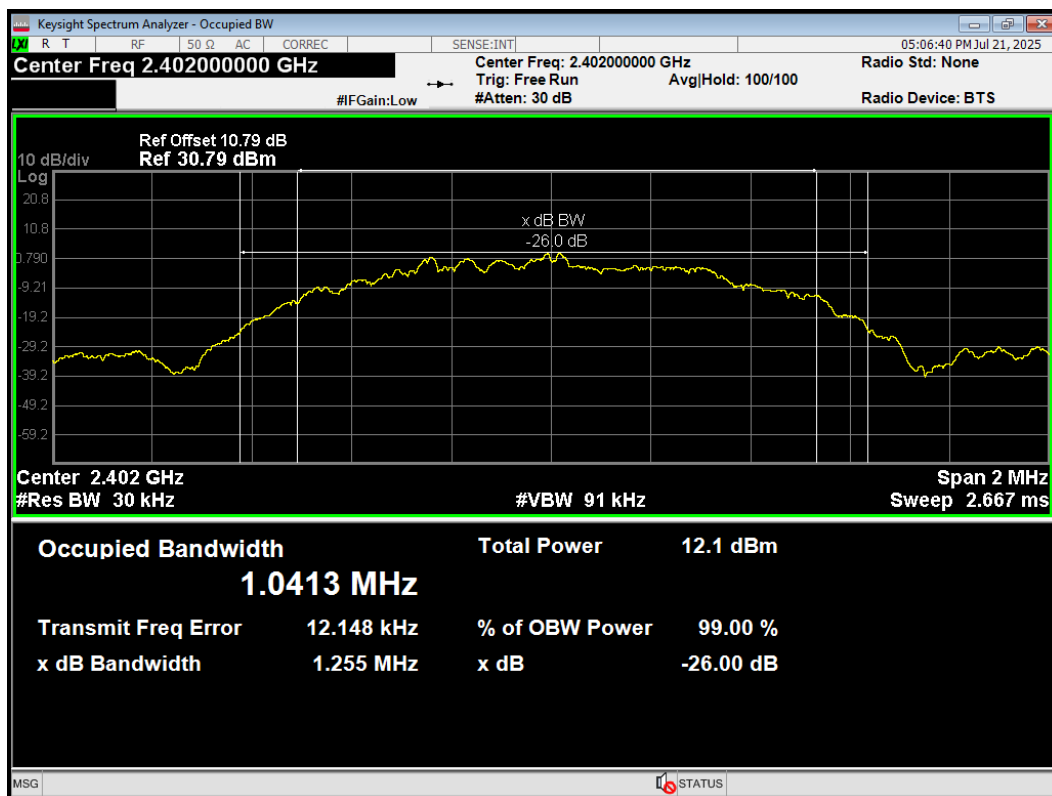
OBW BLE 2402MHz

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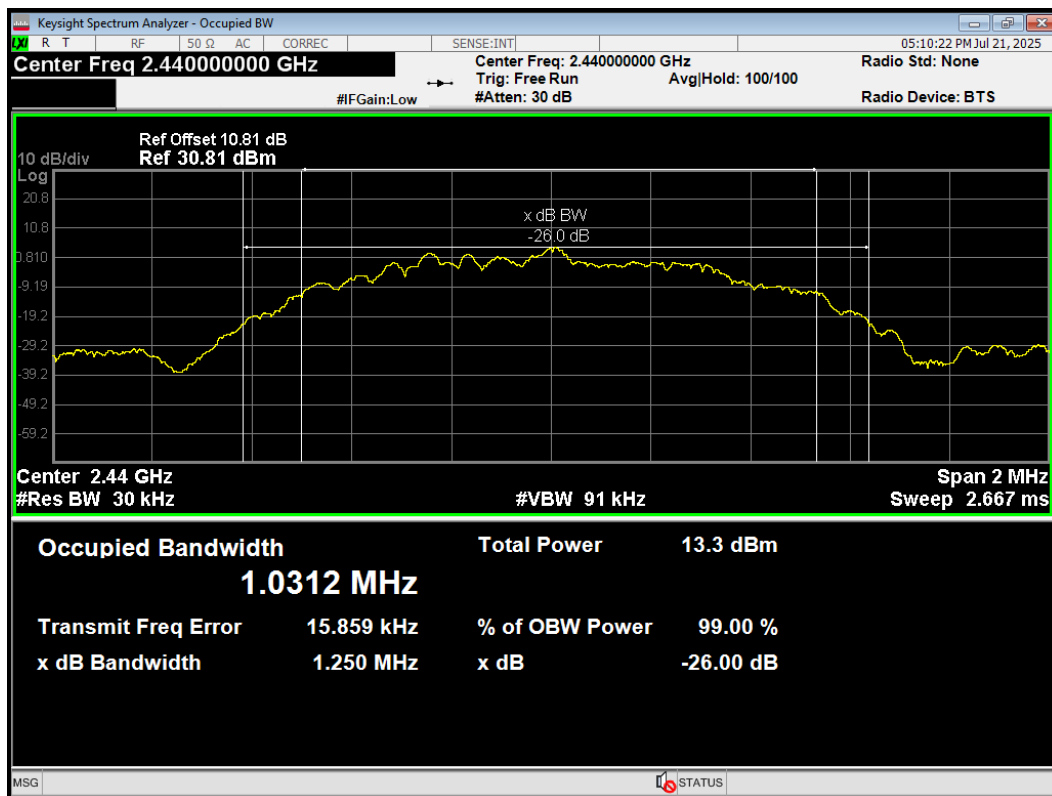
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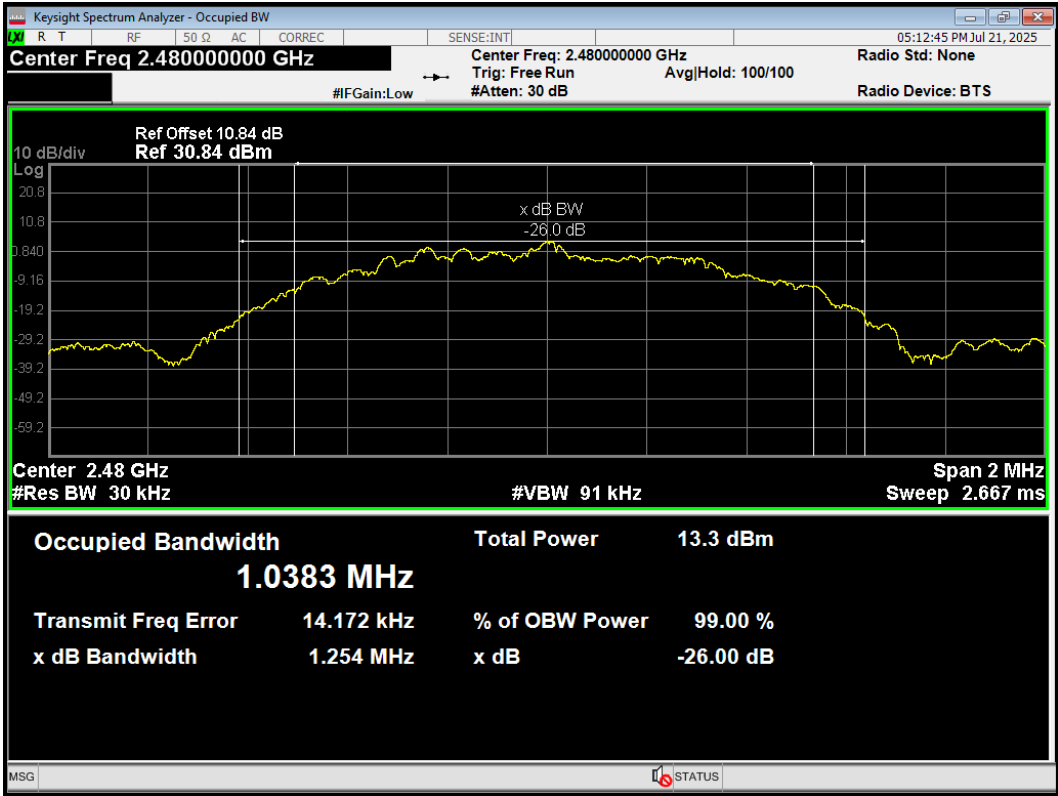
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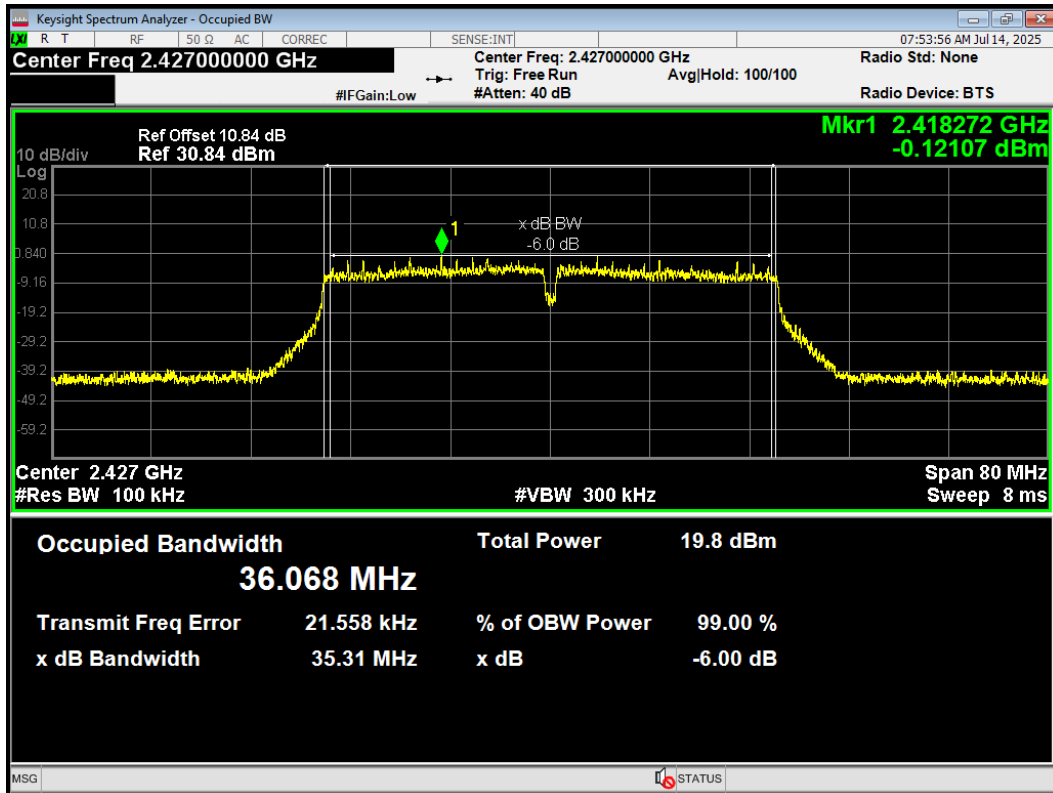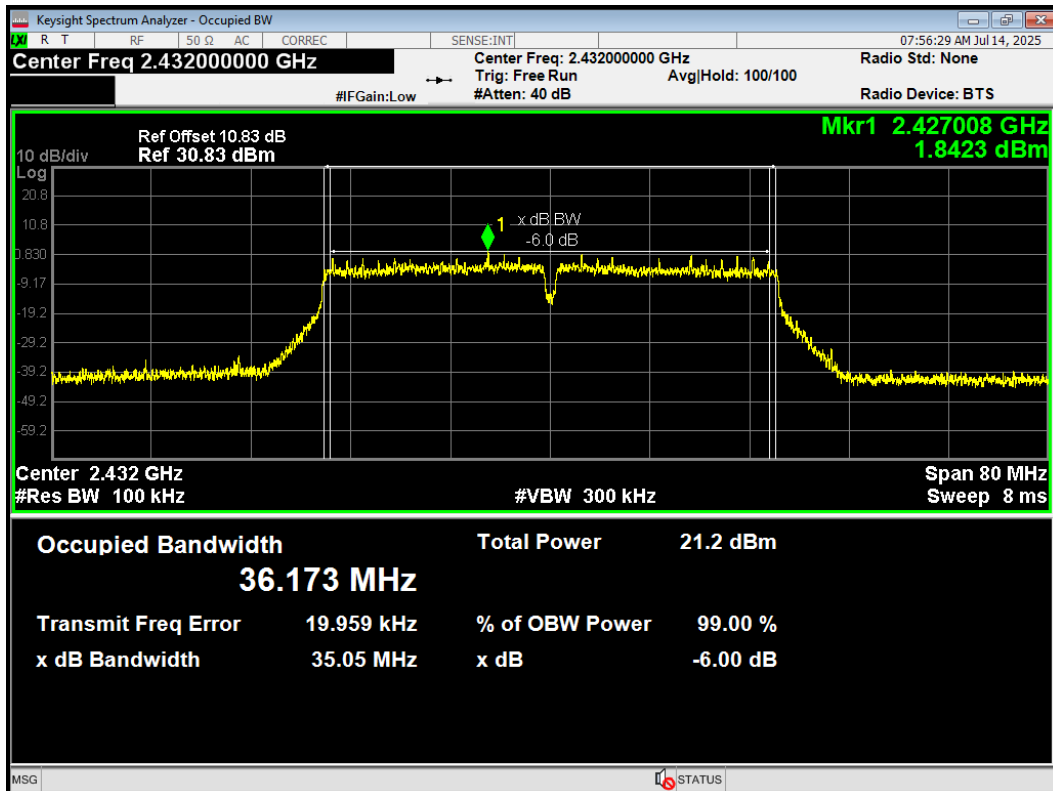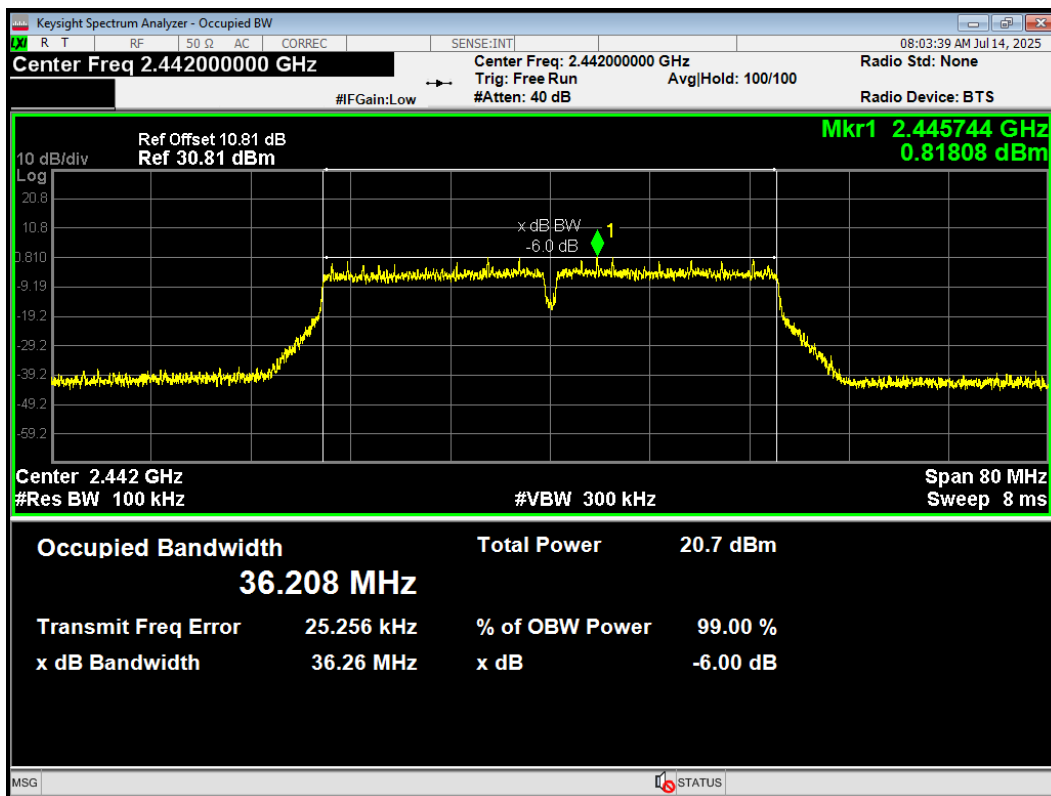
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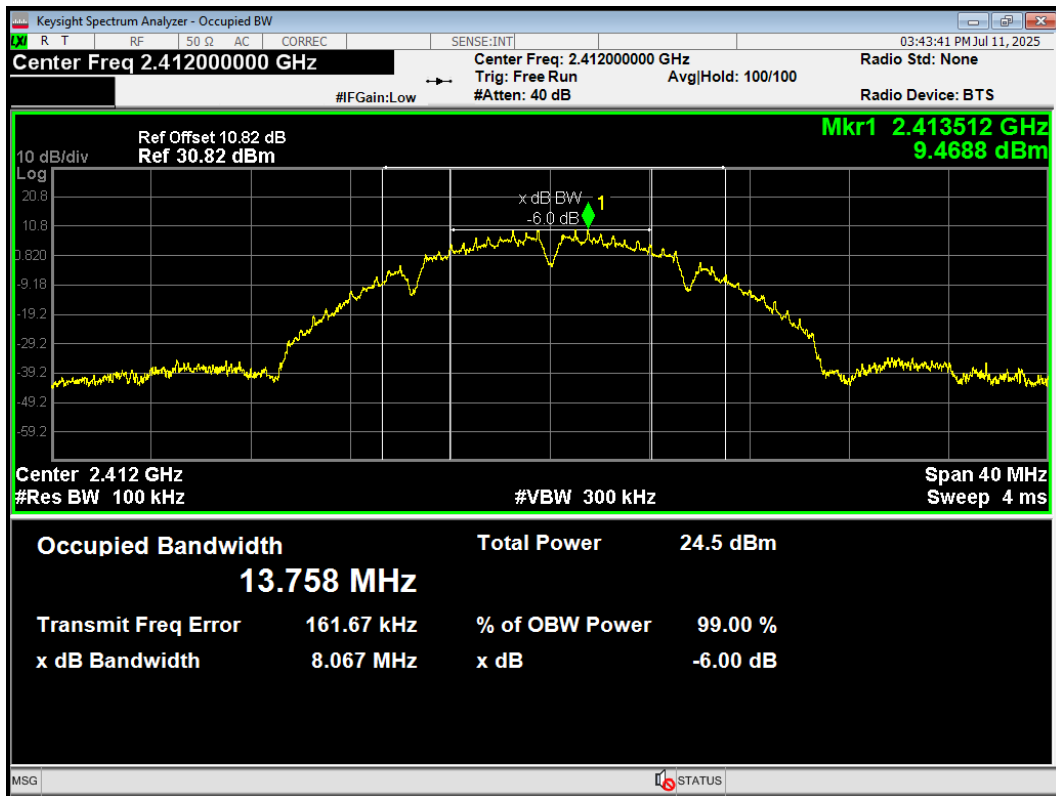
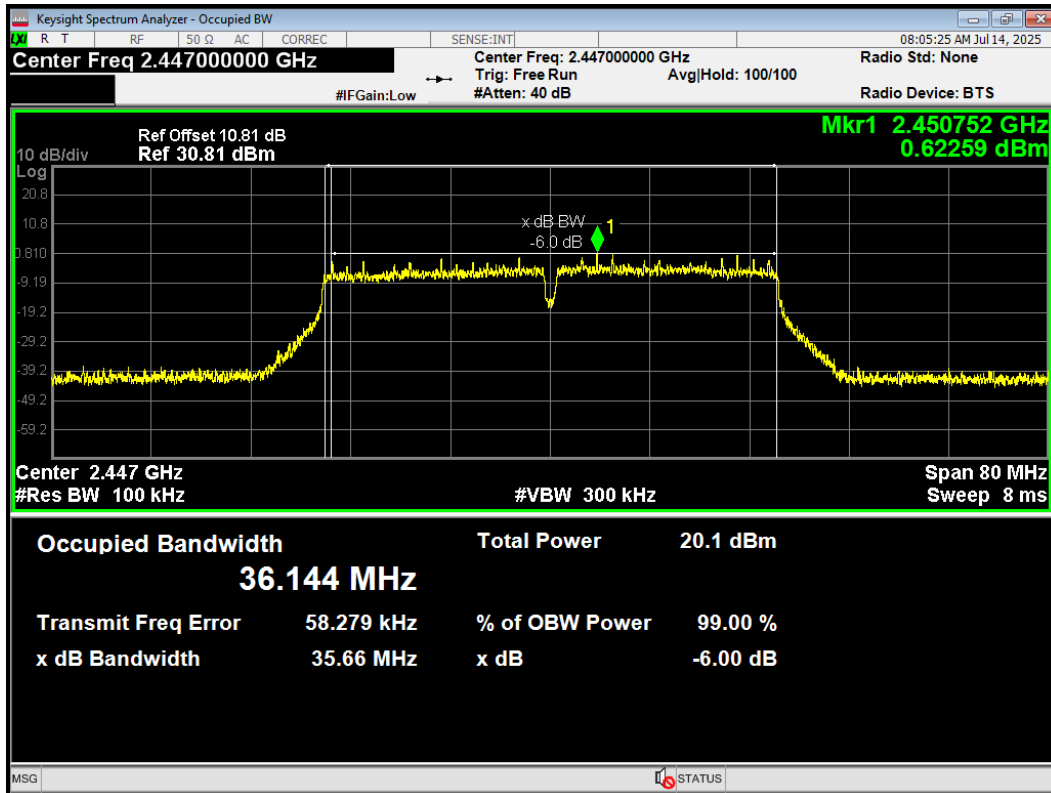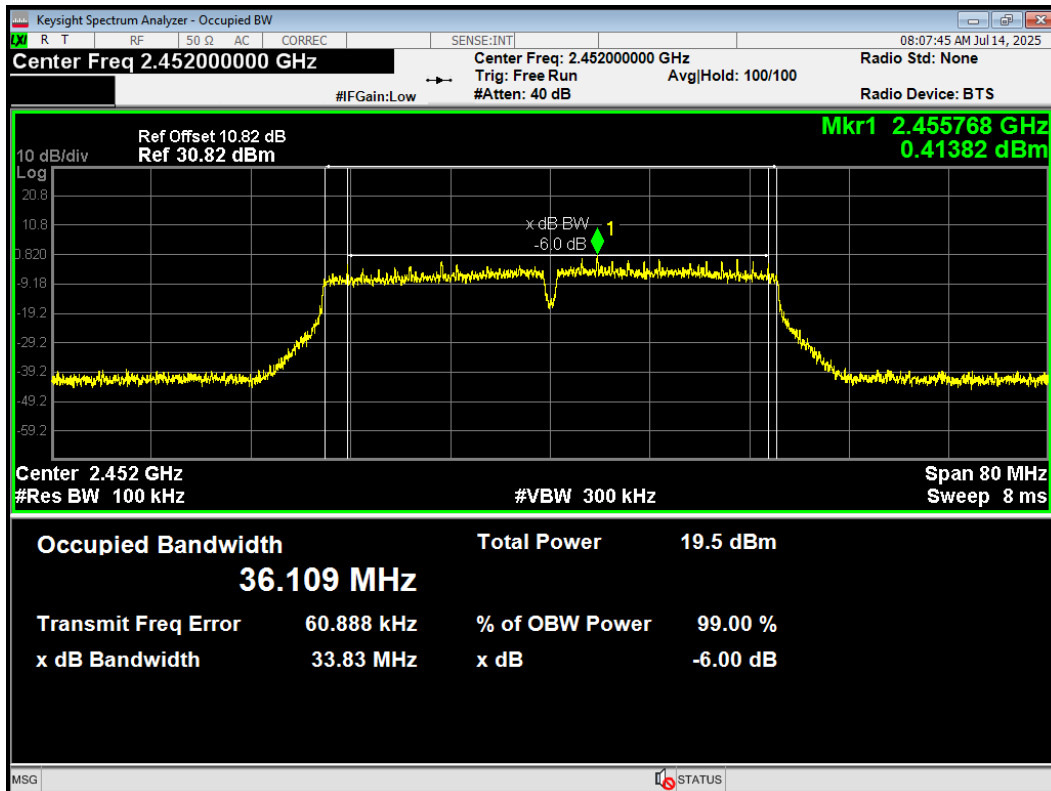

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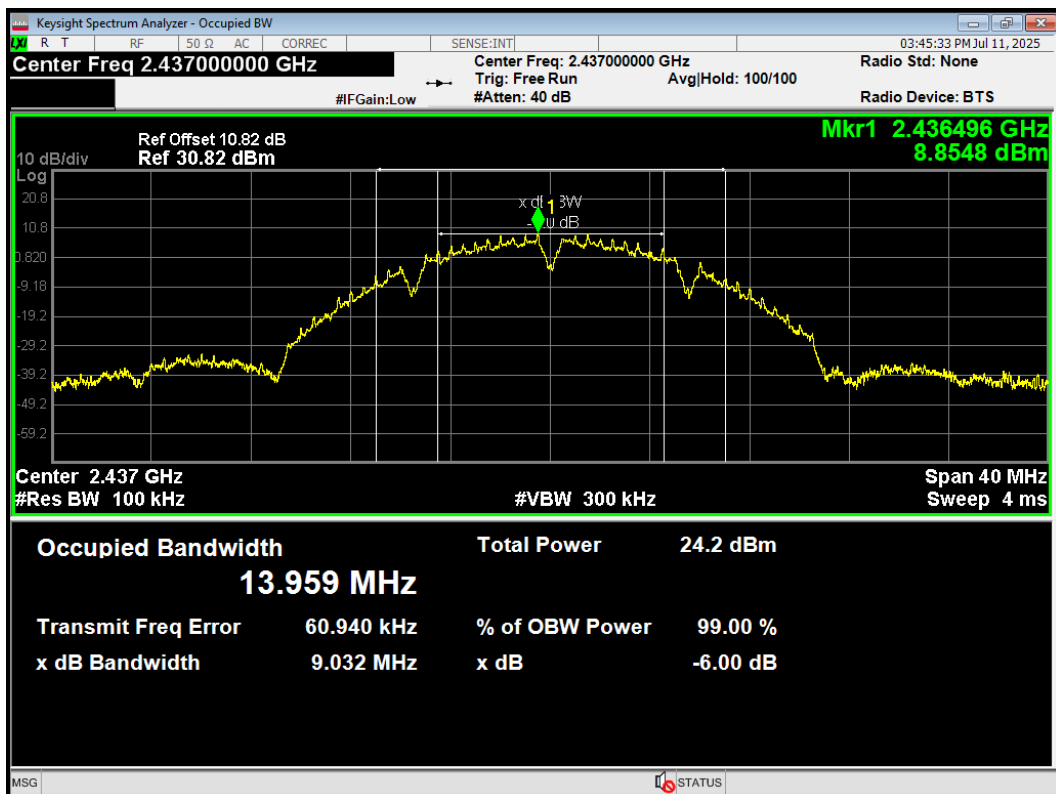
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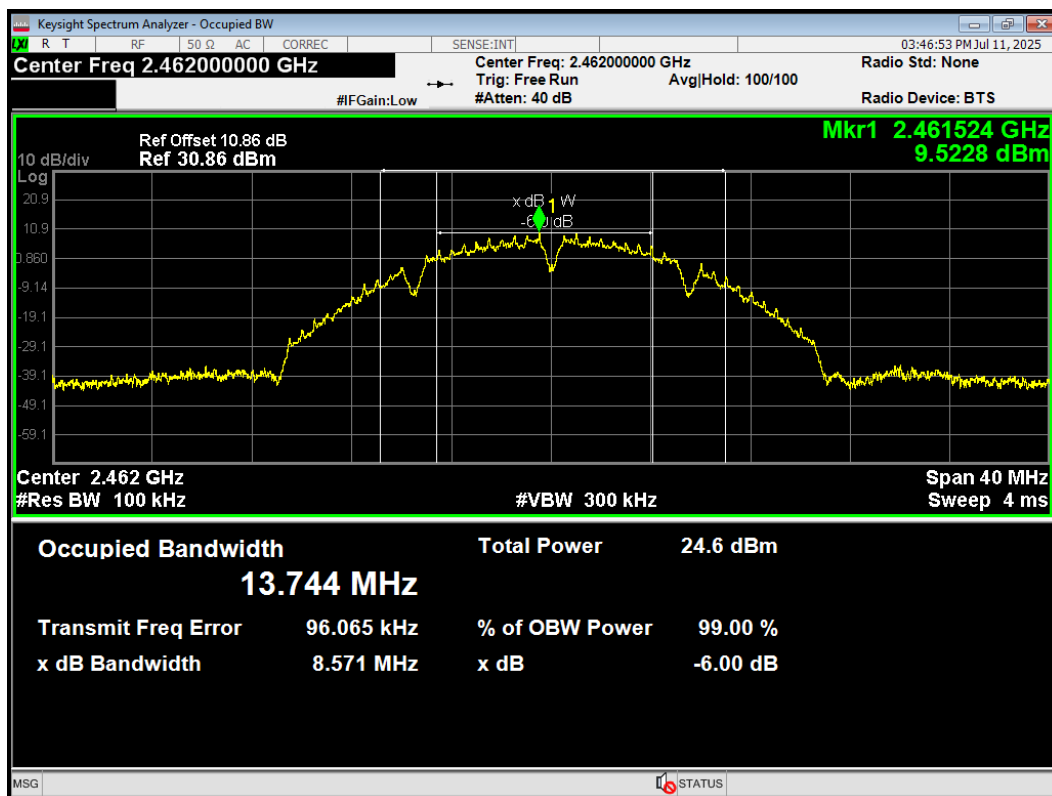
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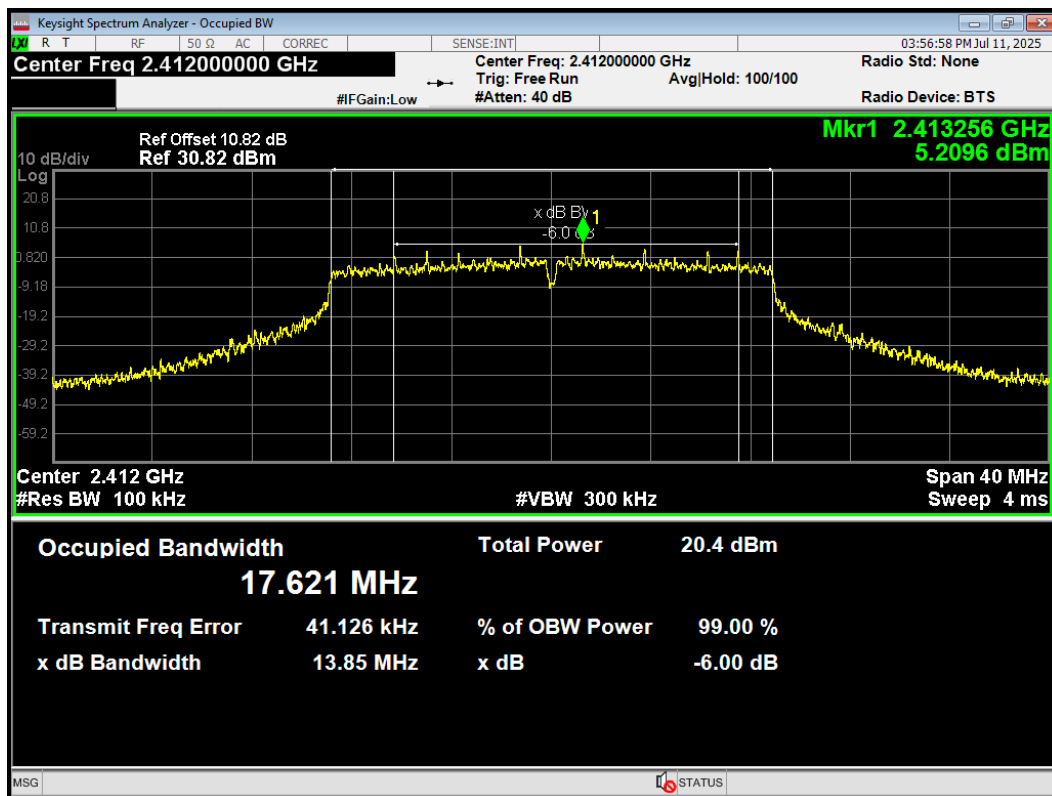
-6dB Bandwidth 802.11g 2417MHz

-6dB Bandwidth 802.11g 2427MHz

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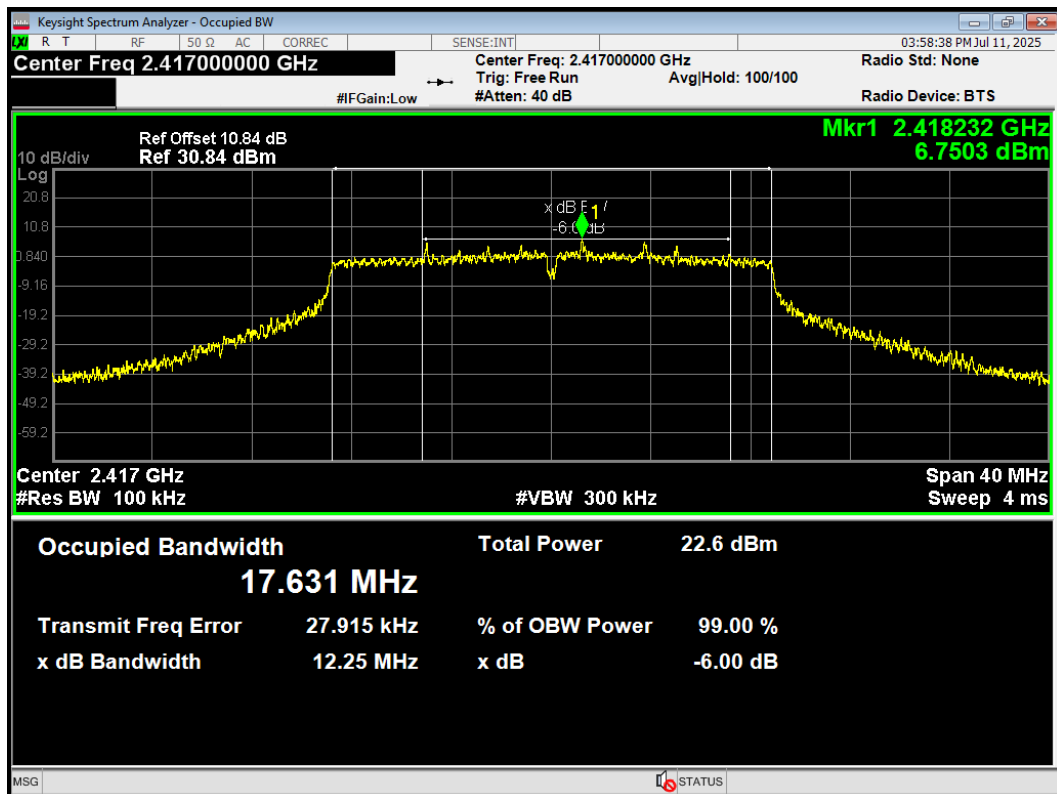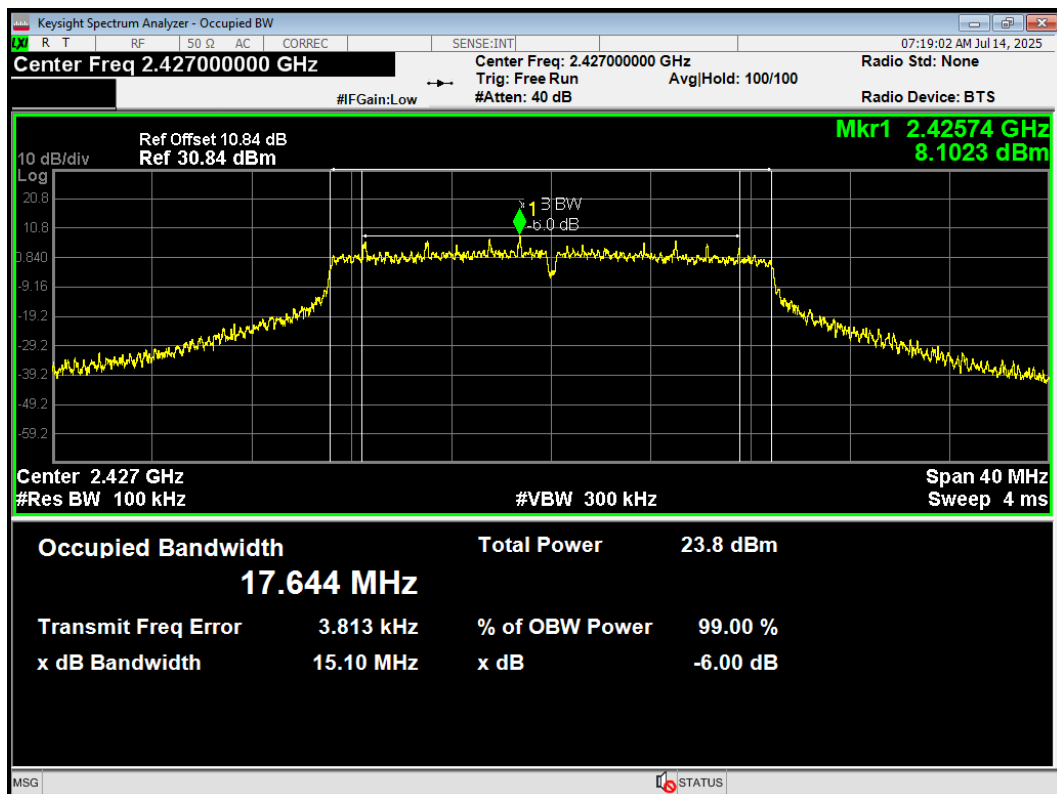
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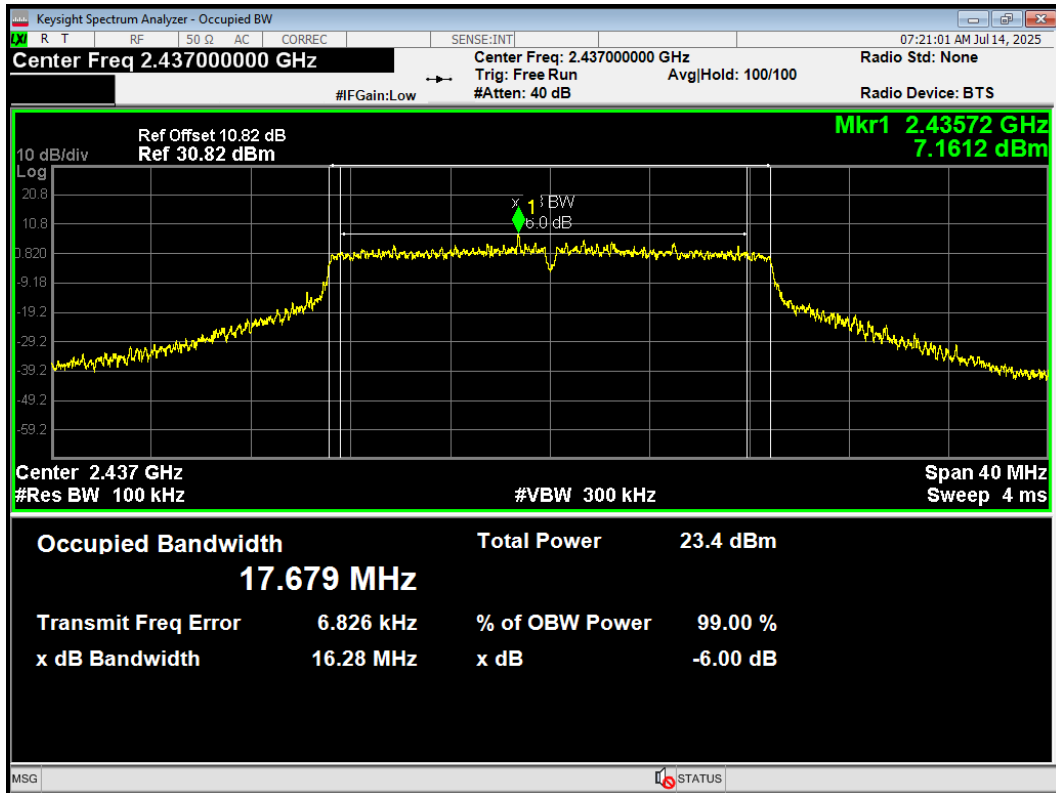
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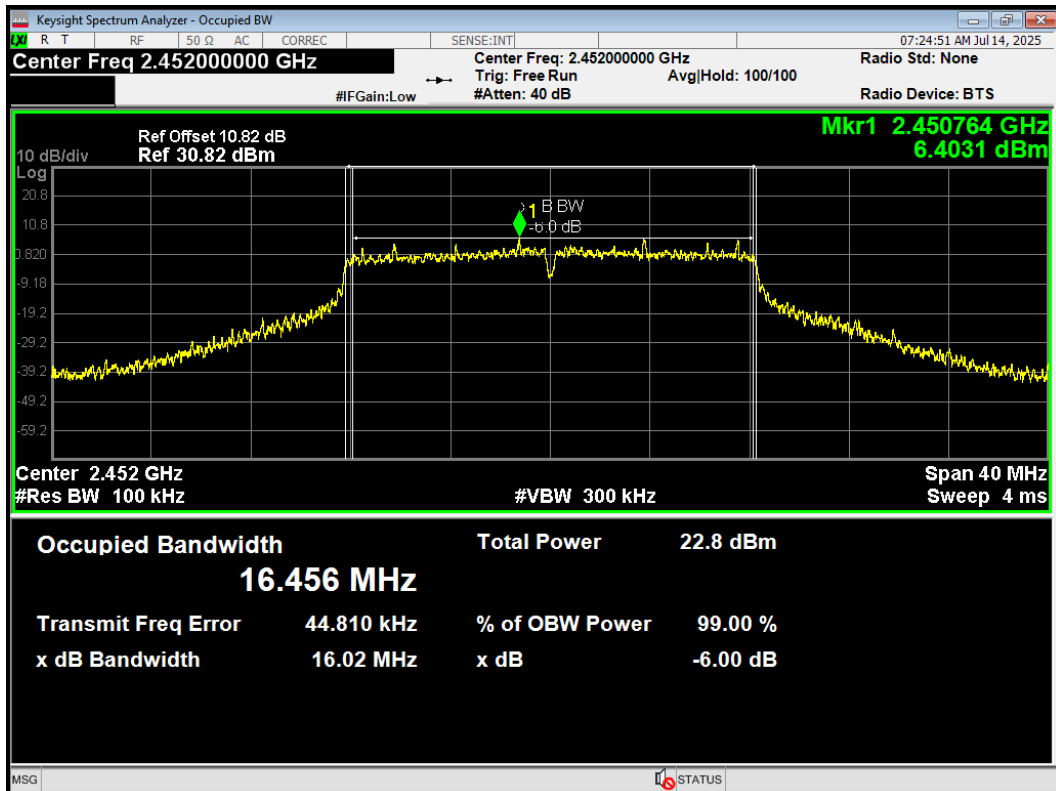
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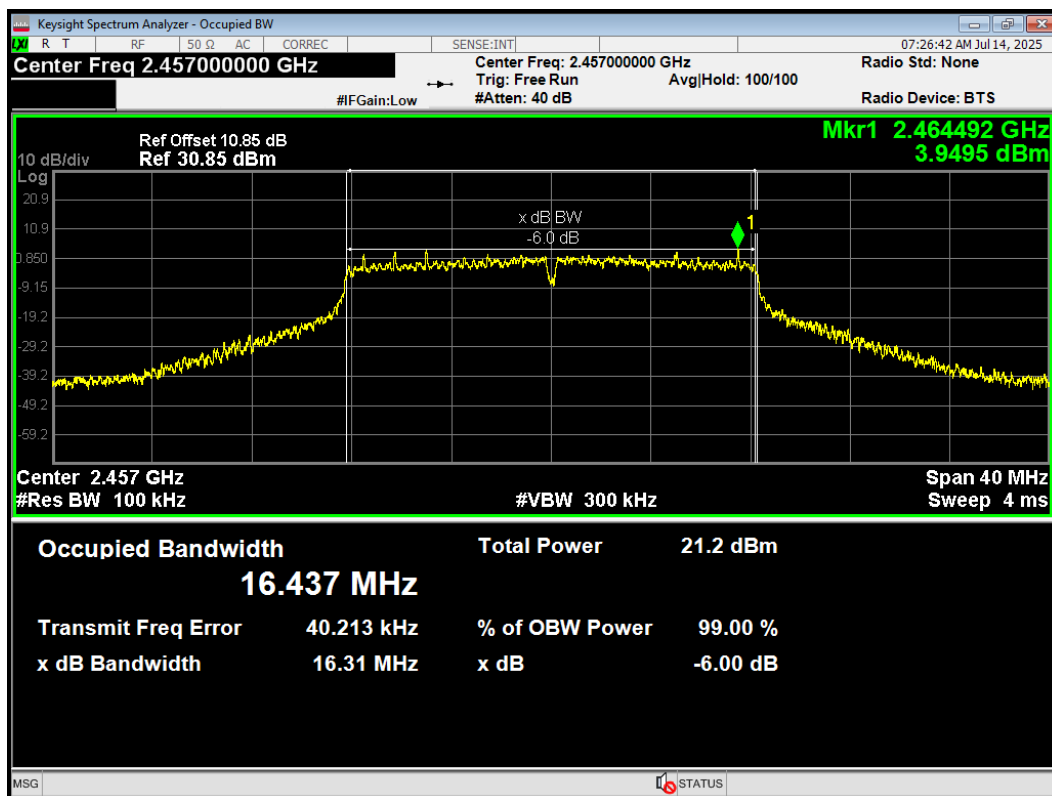
-6dB Bandwidth 802.11g 2462MHz
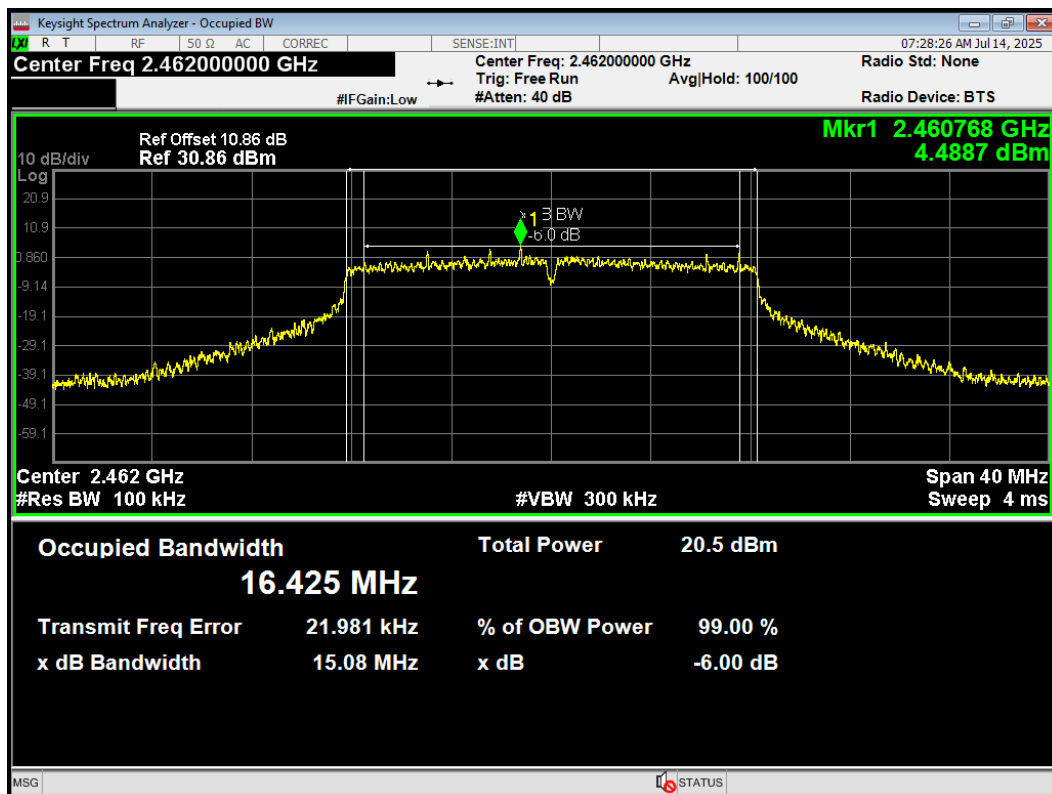
-6dB Bandwidth 802.11n(HT20) 2412MHz

-6dB Bandwidth 802.11n(HT20) 2417MHz

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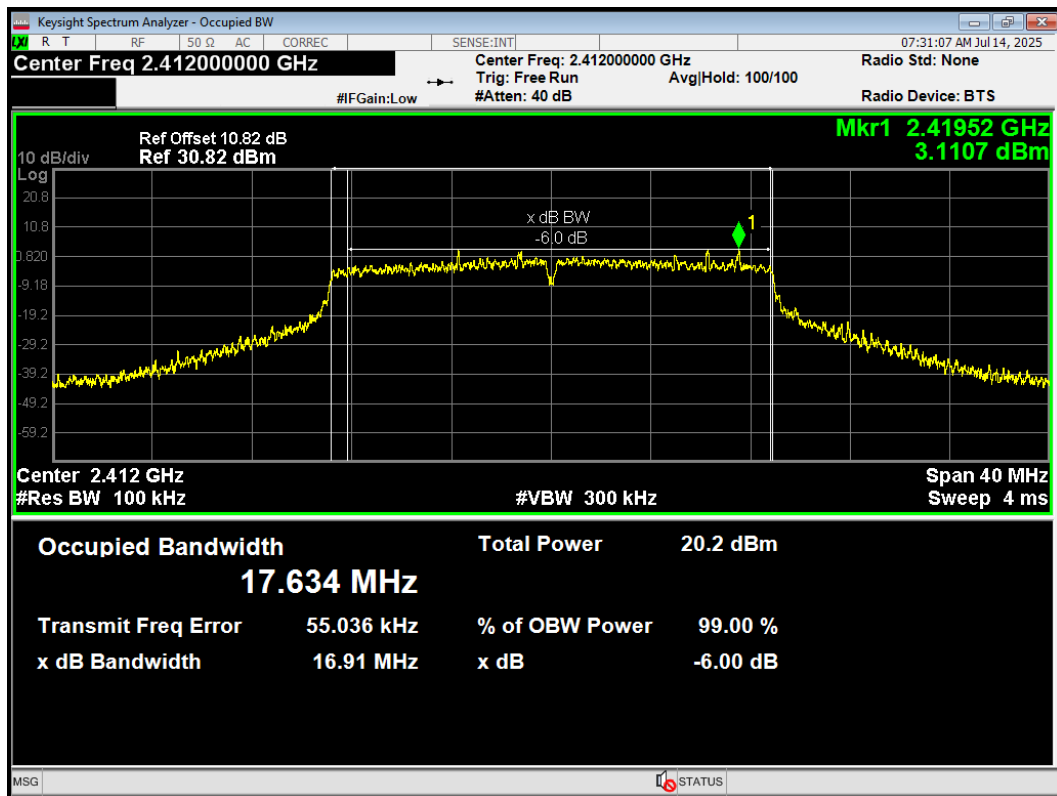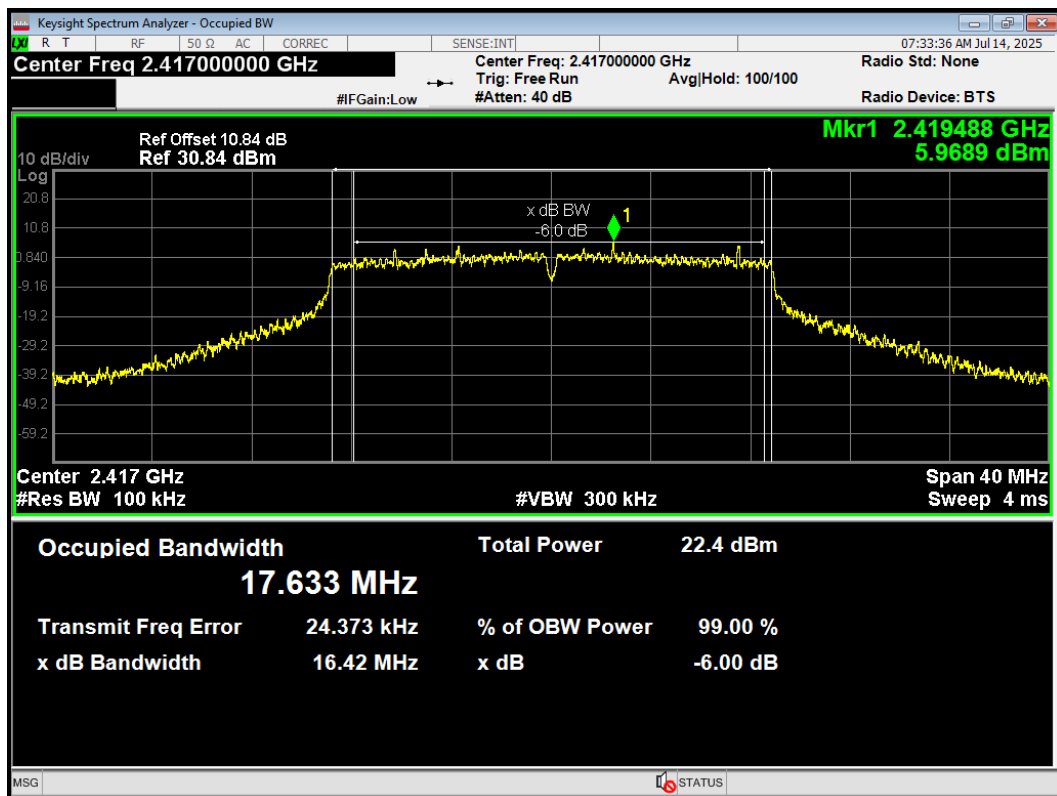
-6dB Bandwidth 802.11n(HT20) 2427MHz

-6dB Bandwidth 802.11n(HT20) 2437MHz

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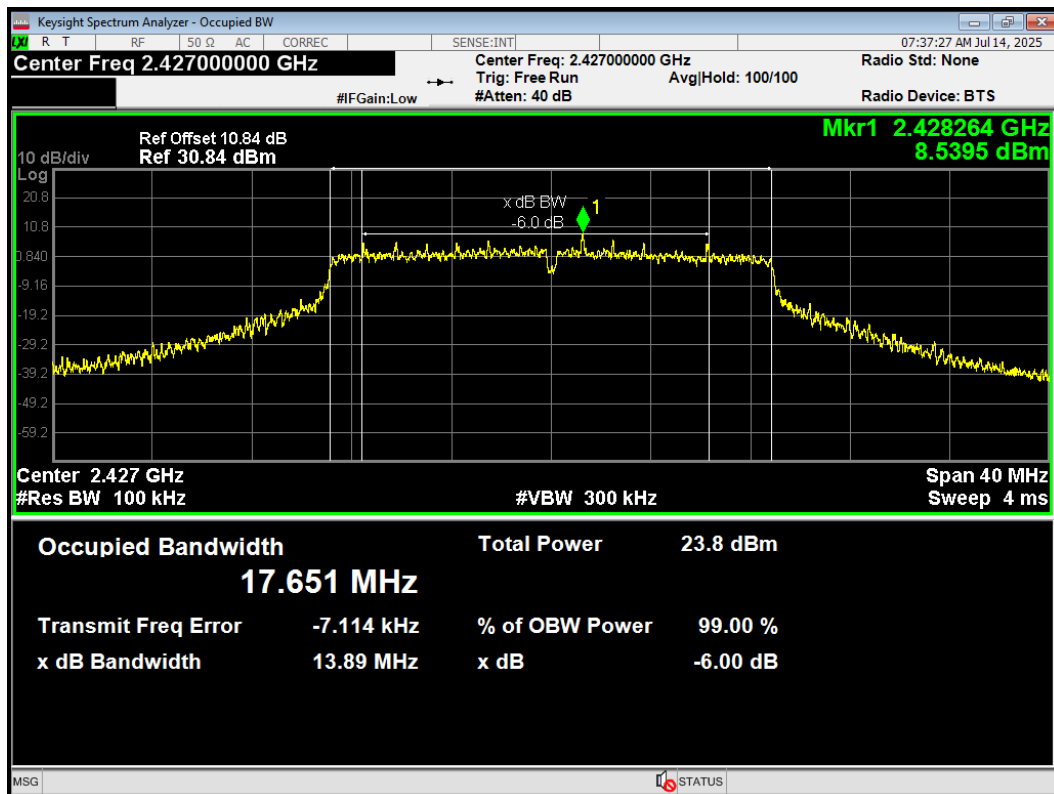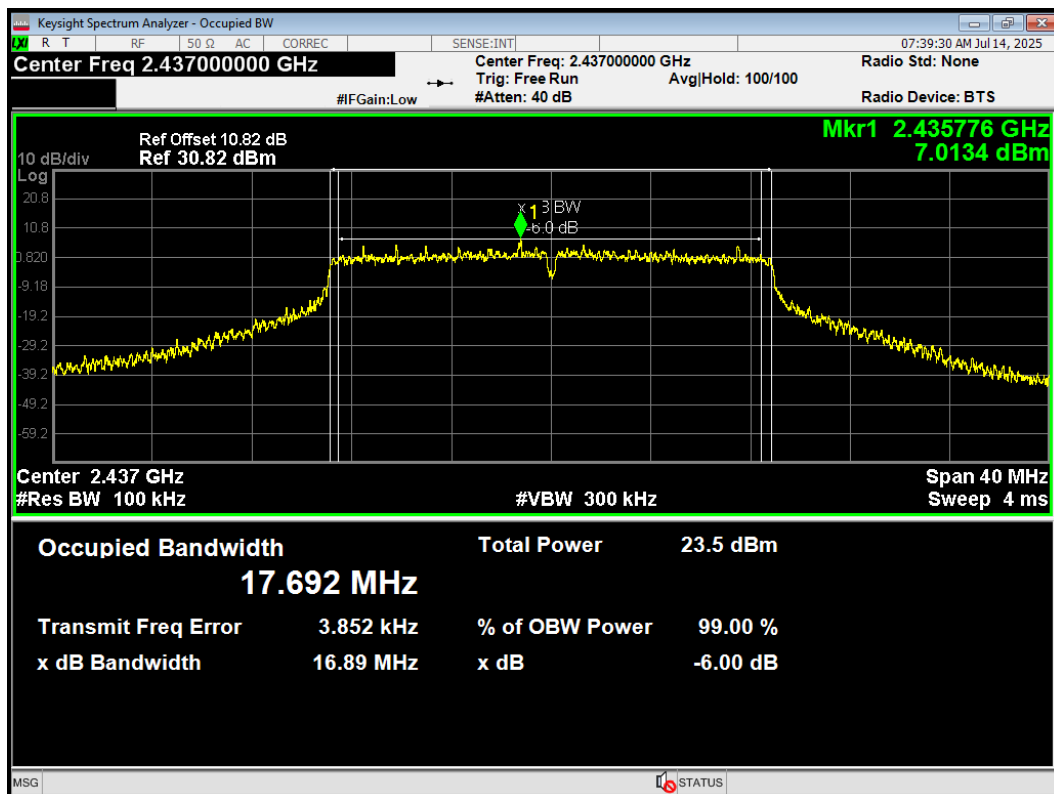
-6dB Bandwidth 802.11n(HT20) 2452MHz

-6dB Bandwidth 802.11n(HT20) 2457MHz

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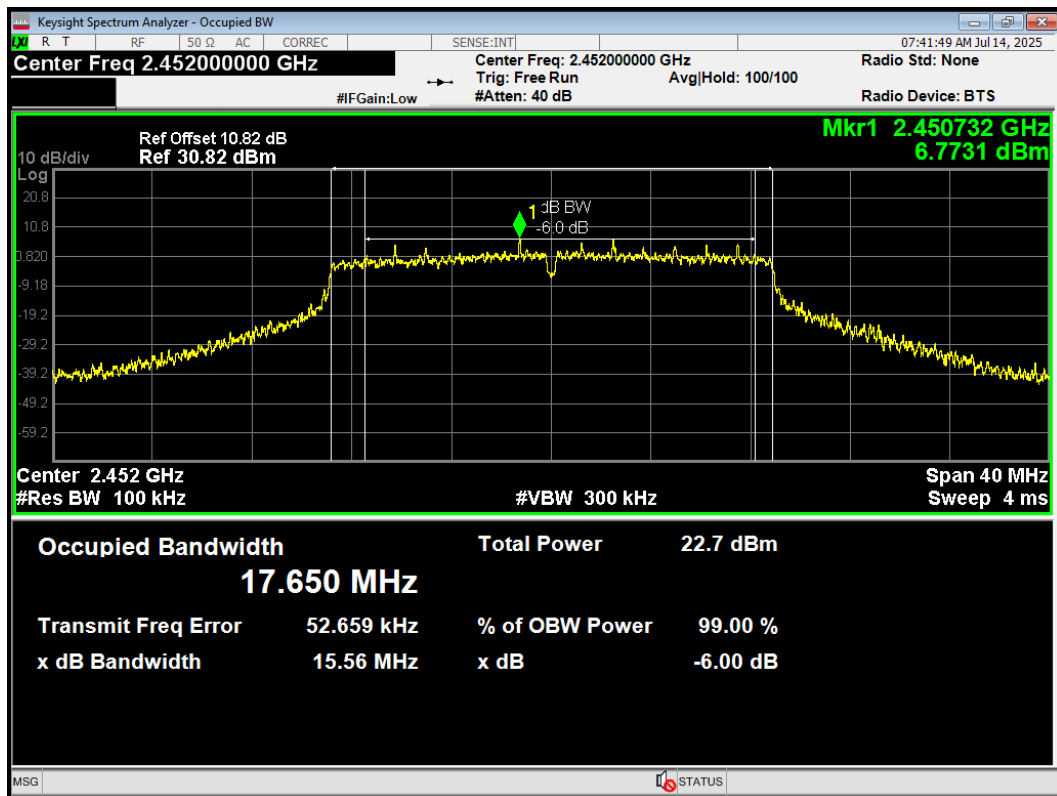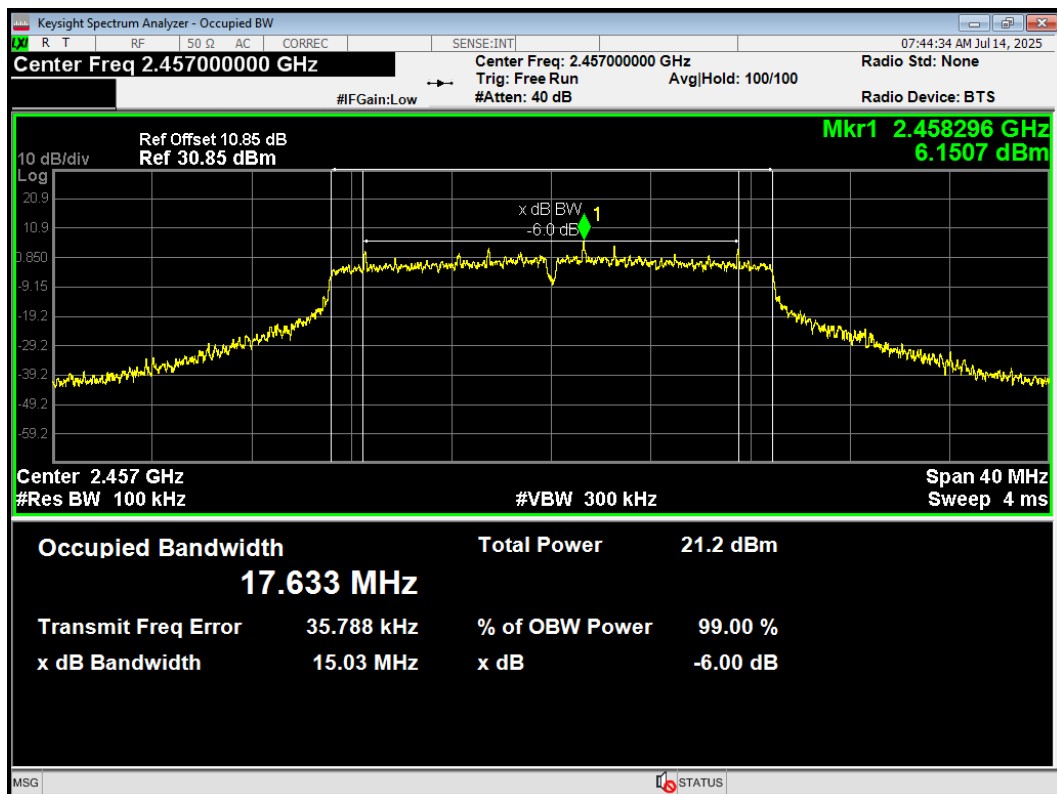
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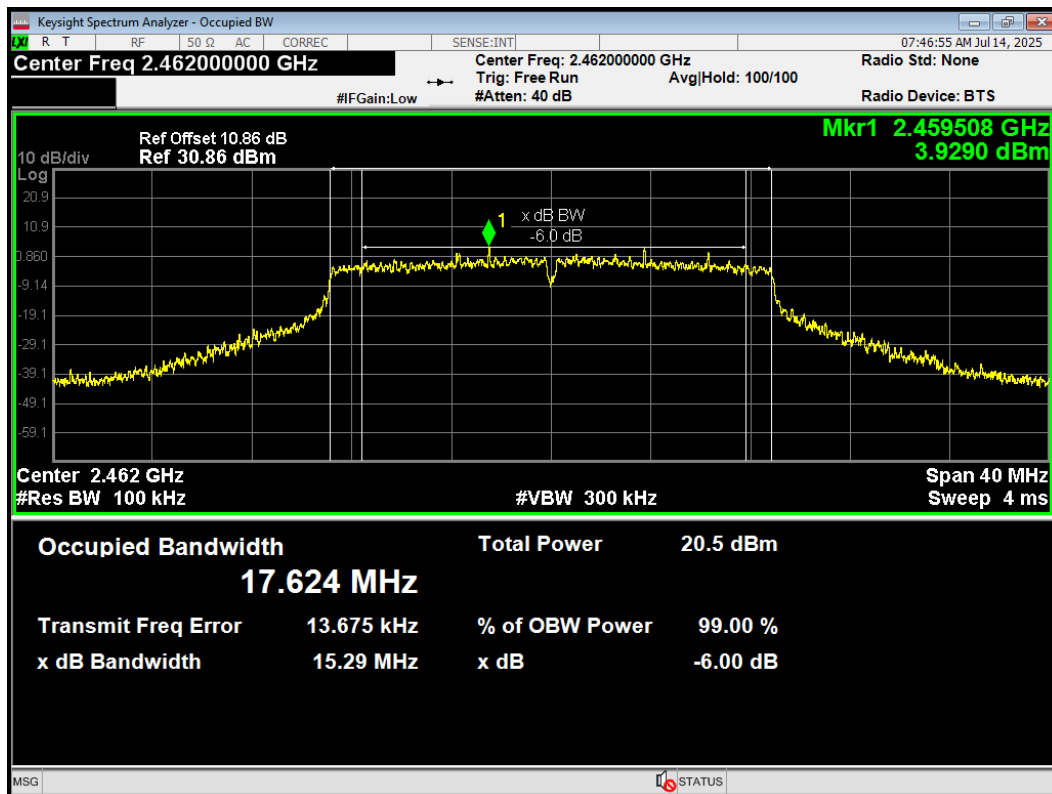
-6dB Bandwidth 802.11n(HT40) 2422MHz
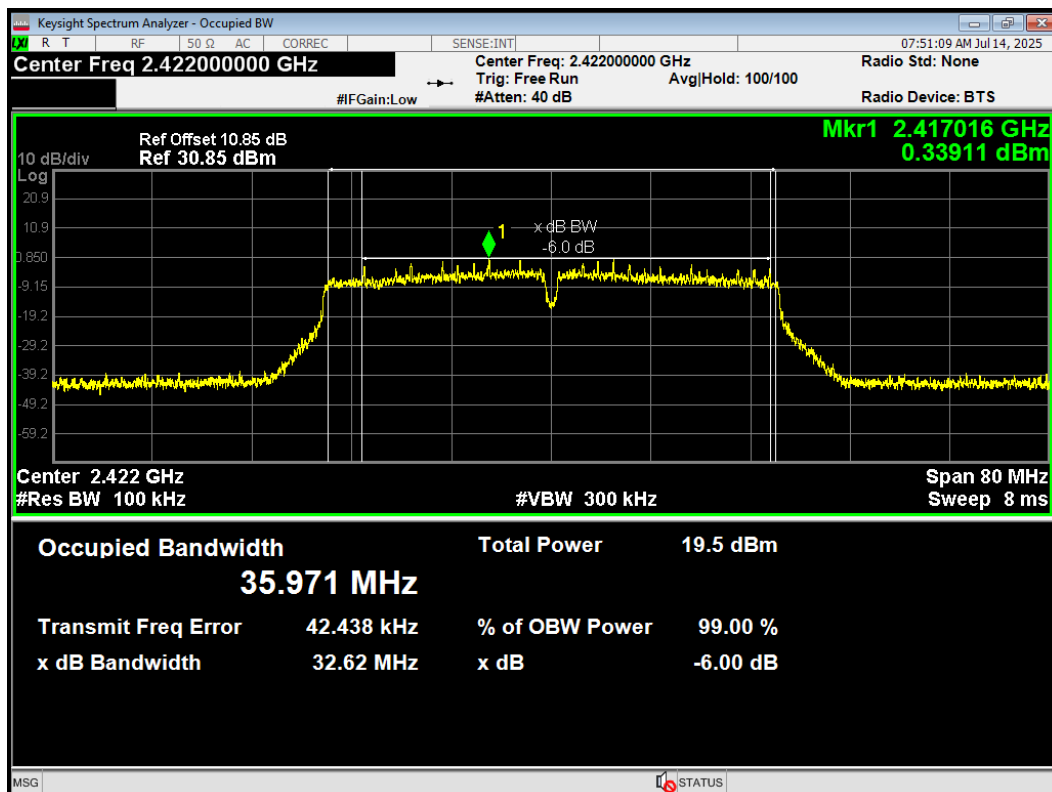
-6dB Bandwidth 802.11n(HT40) 2427MHz

-6dB Bandwidth 802.11n(HT40) 2432MHz

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-6dB Bandwidth 802.11n(HT40) 2437MHz
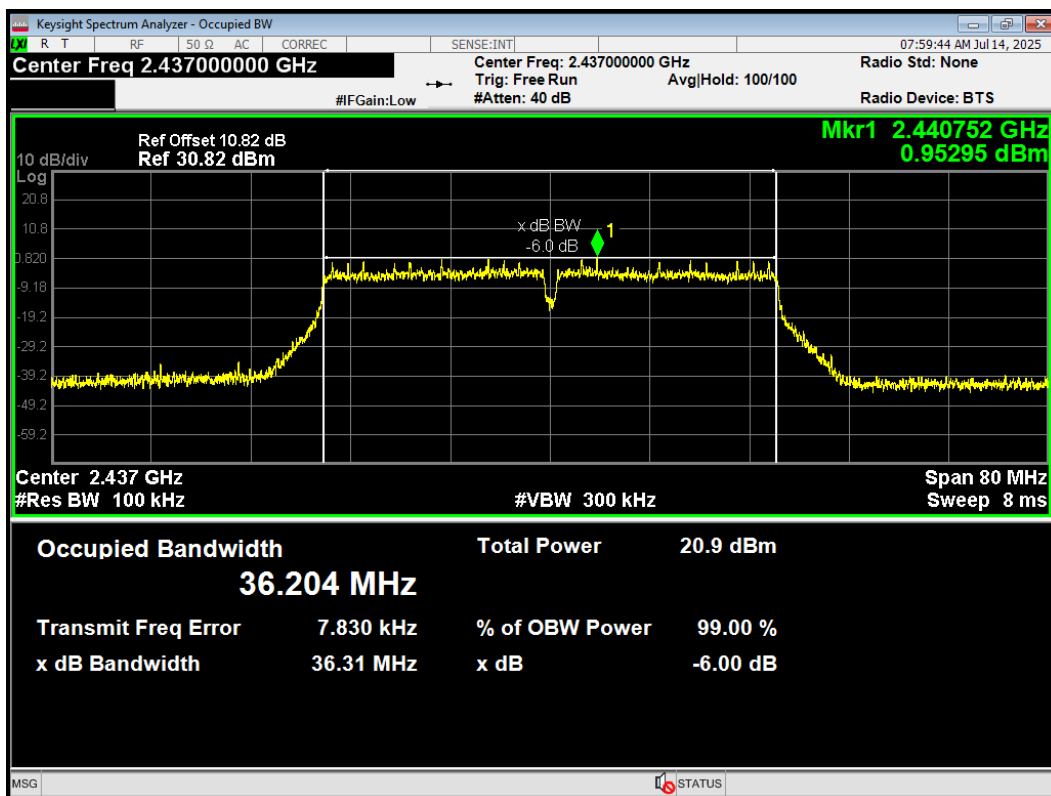
-6dB Bandwidth 802.11n(HT40) 2442MHz

-6dB Bandwidth 802.11n(HT40) 2447MHz

-6dB Bandwidth 802.11n(HT40) 2452MHz

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-6dB Bandwidth BLE 2402MHz

-6dB Bandwidth BLE 2440MHz

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-6dB Bandwidth BLE 2480MHz

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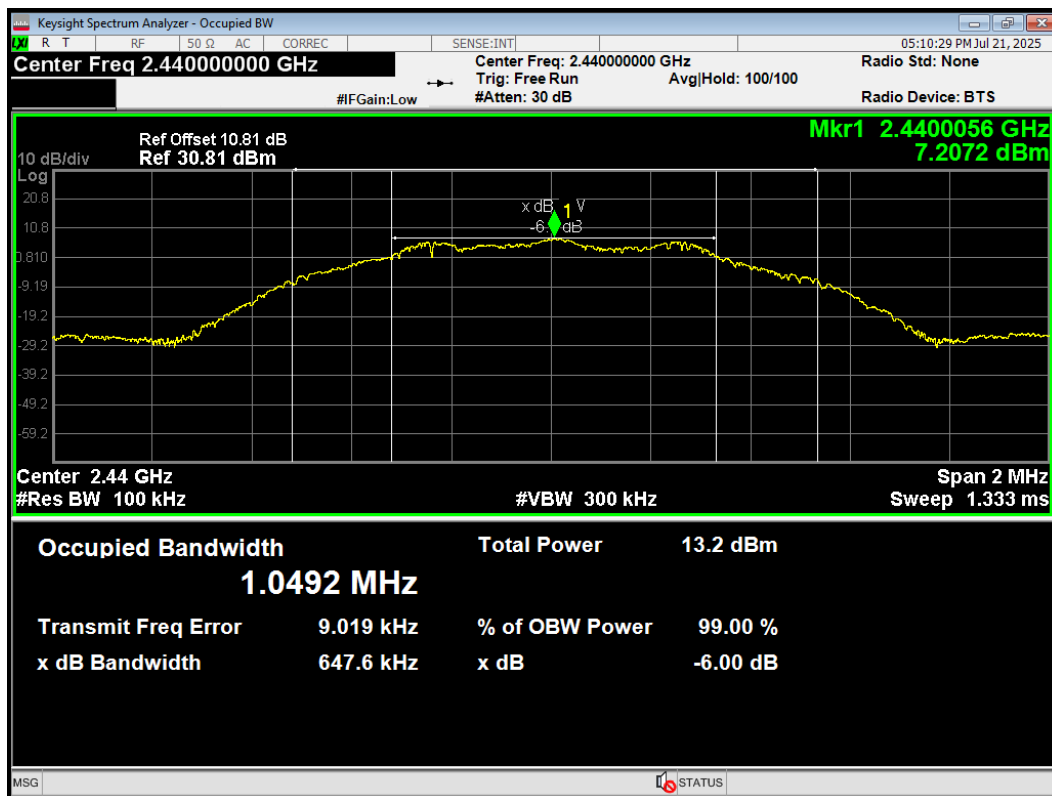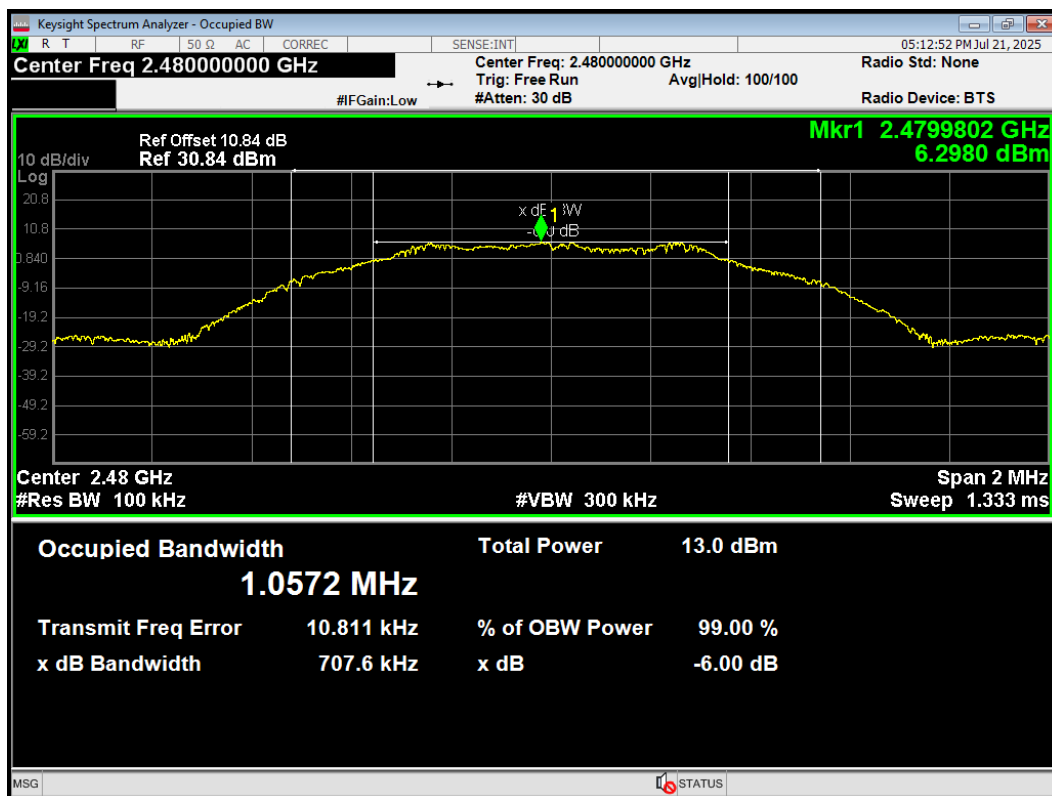
5.3. Band Edge

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup
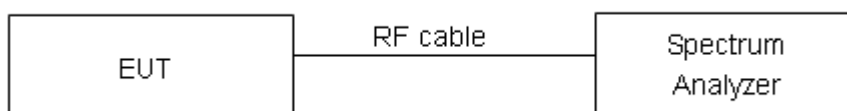
Limits

Rule Part 15.247(d) specifies that "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."

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results: PASS

Band Edge 802.11b 2412MHz Ref
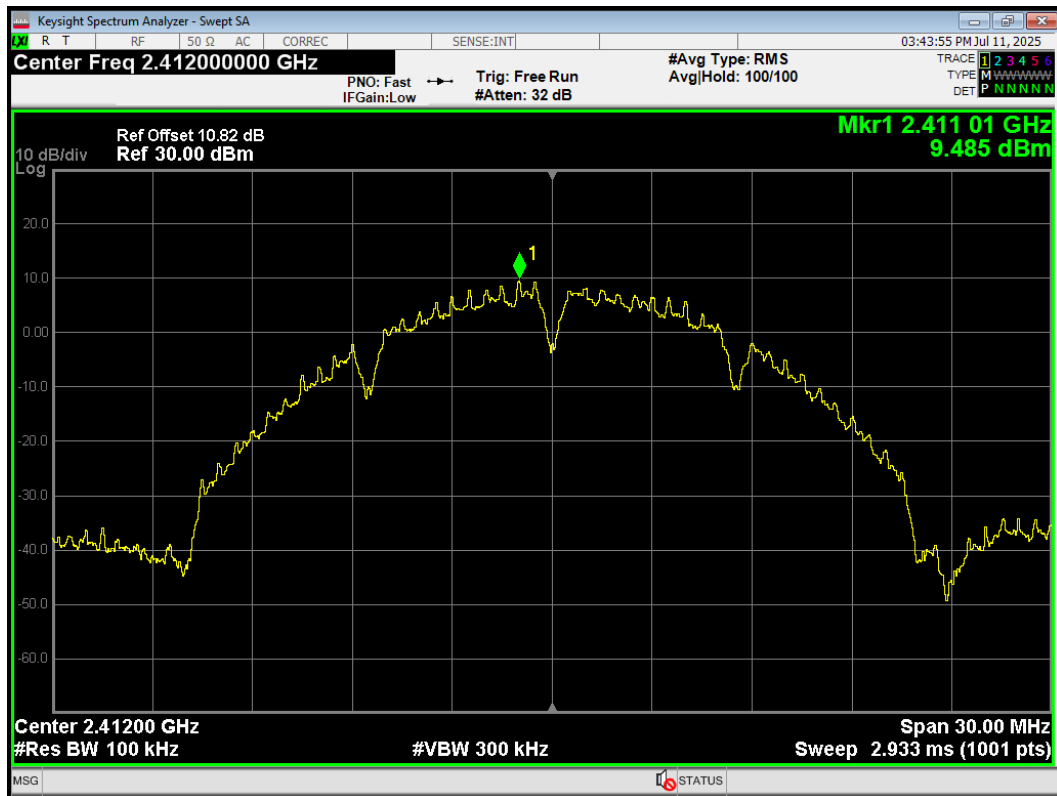
Band Edge 802.11b 2412MHz Emission
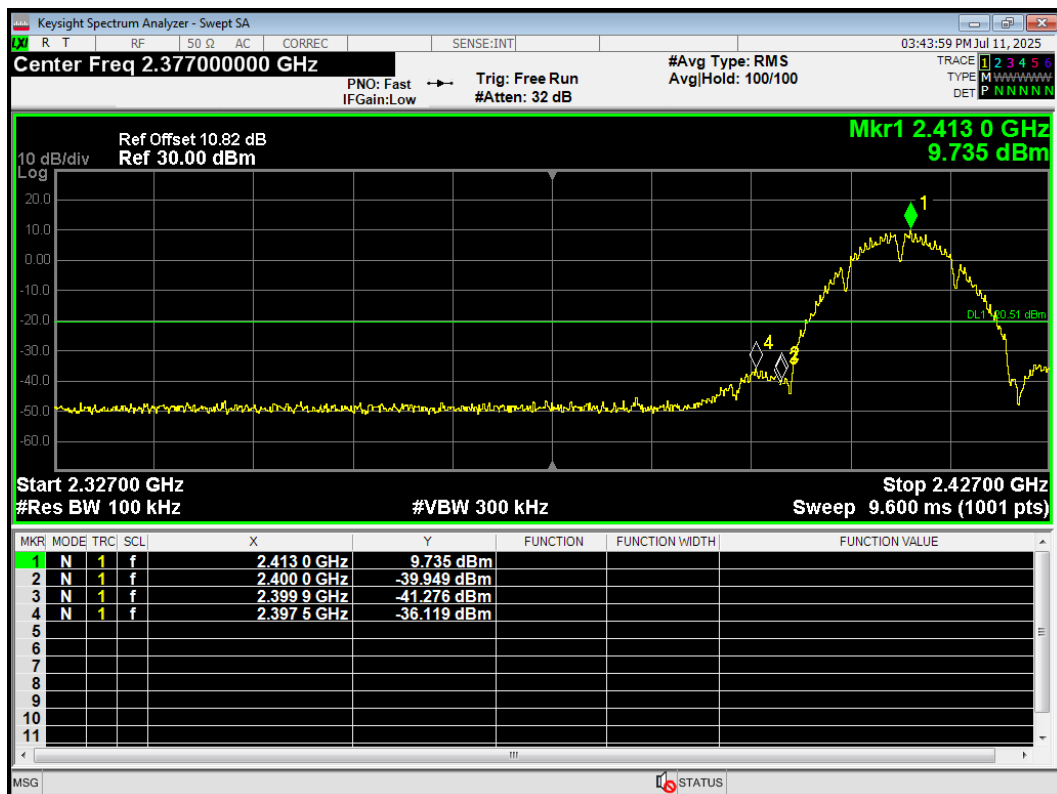
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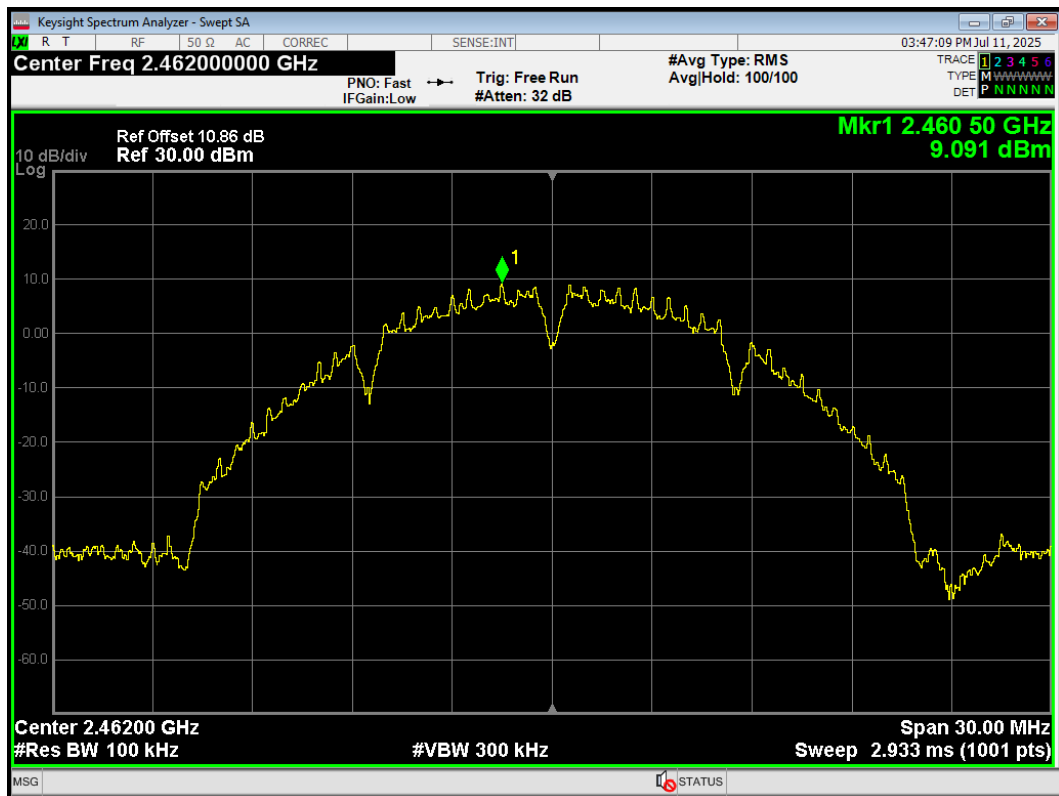
Band Edge 802.11b 2462MHz Emission

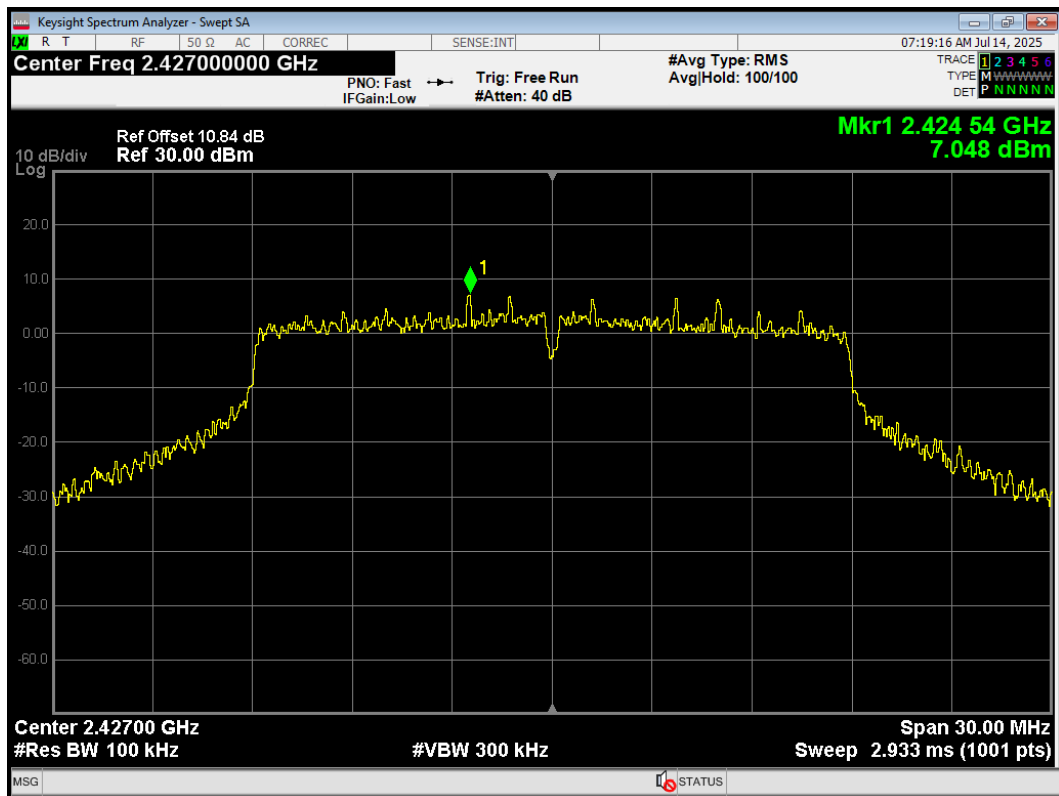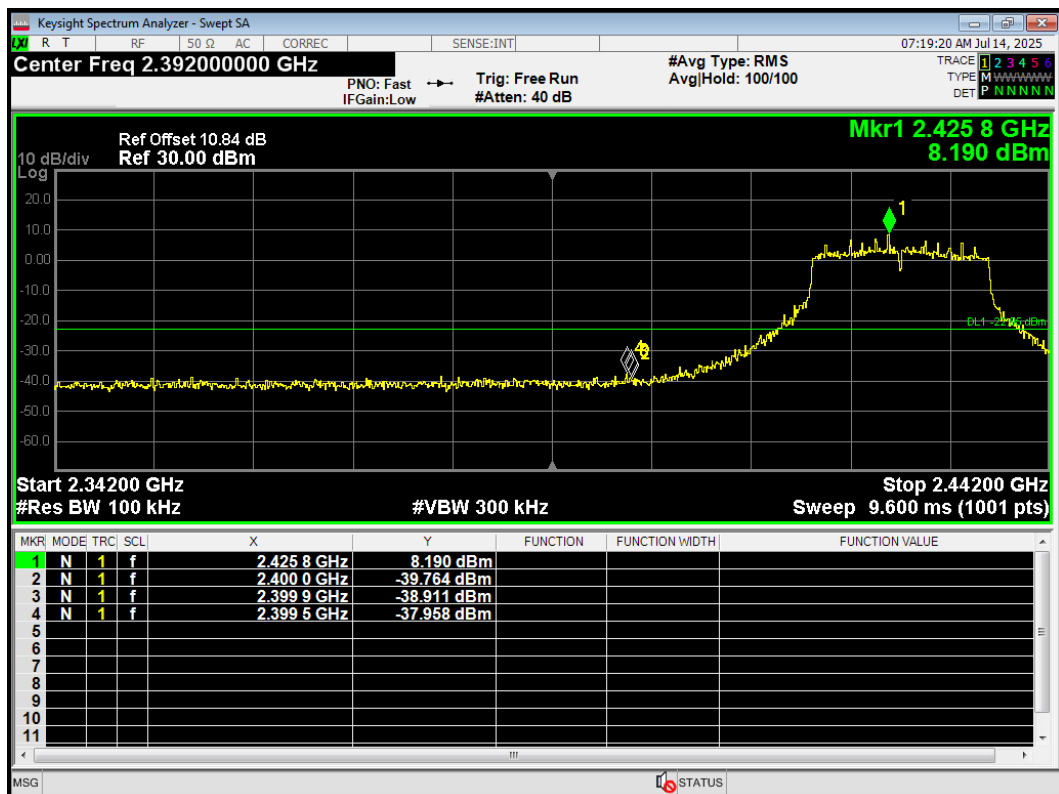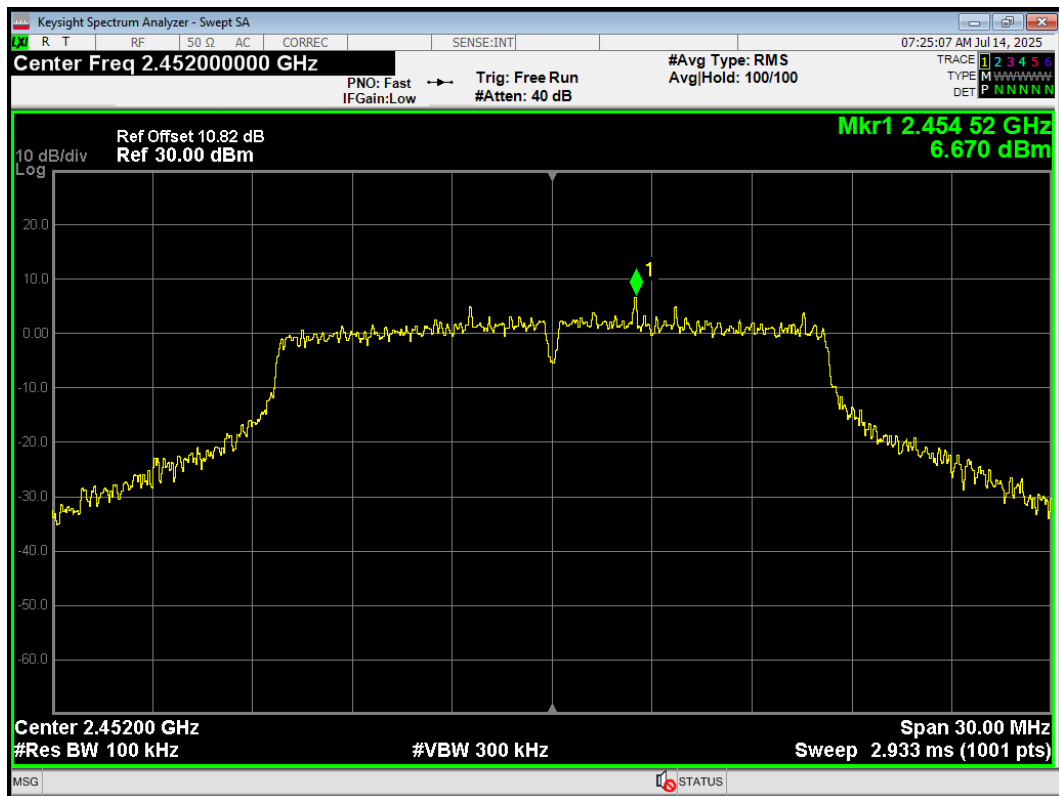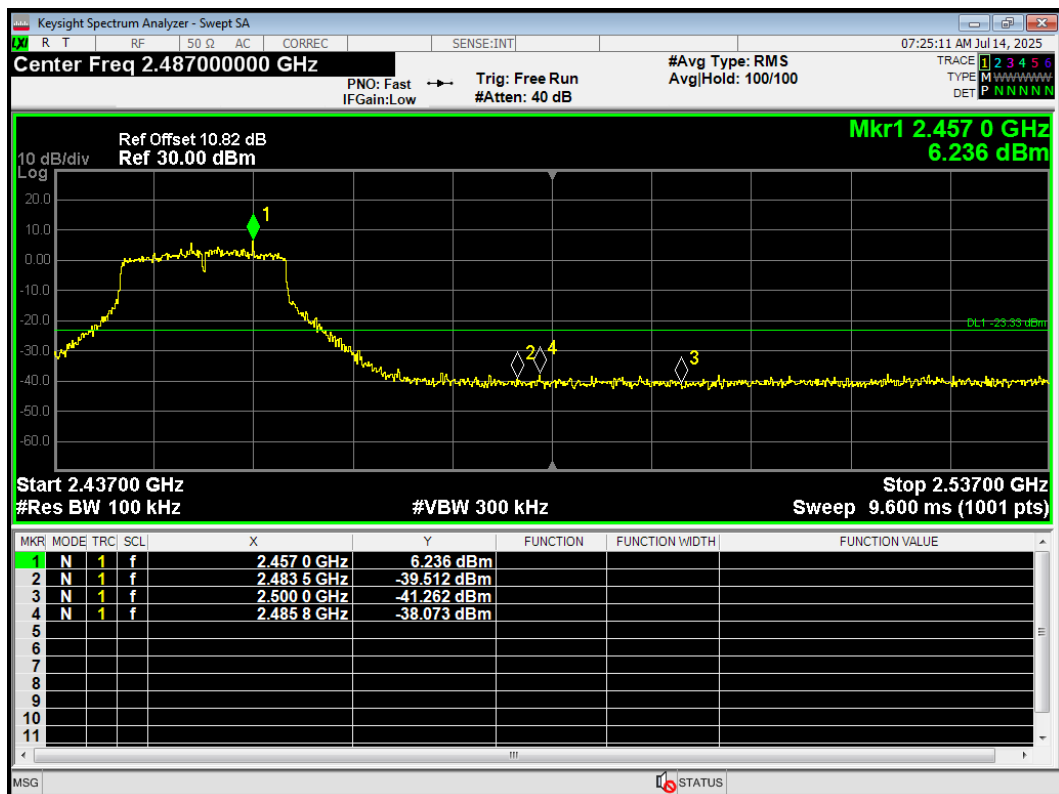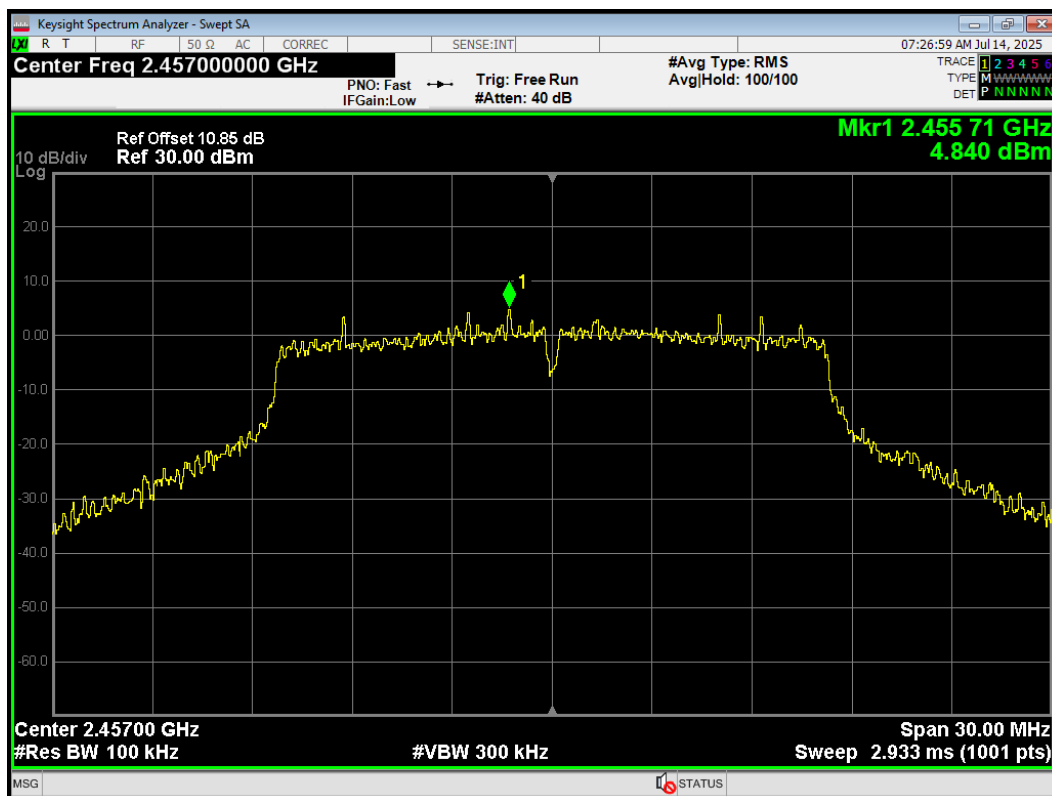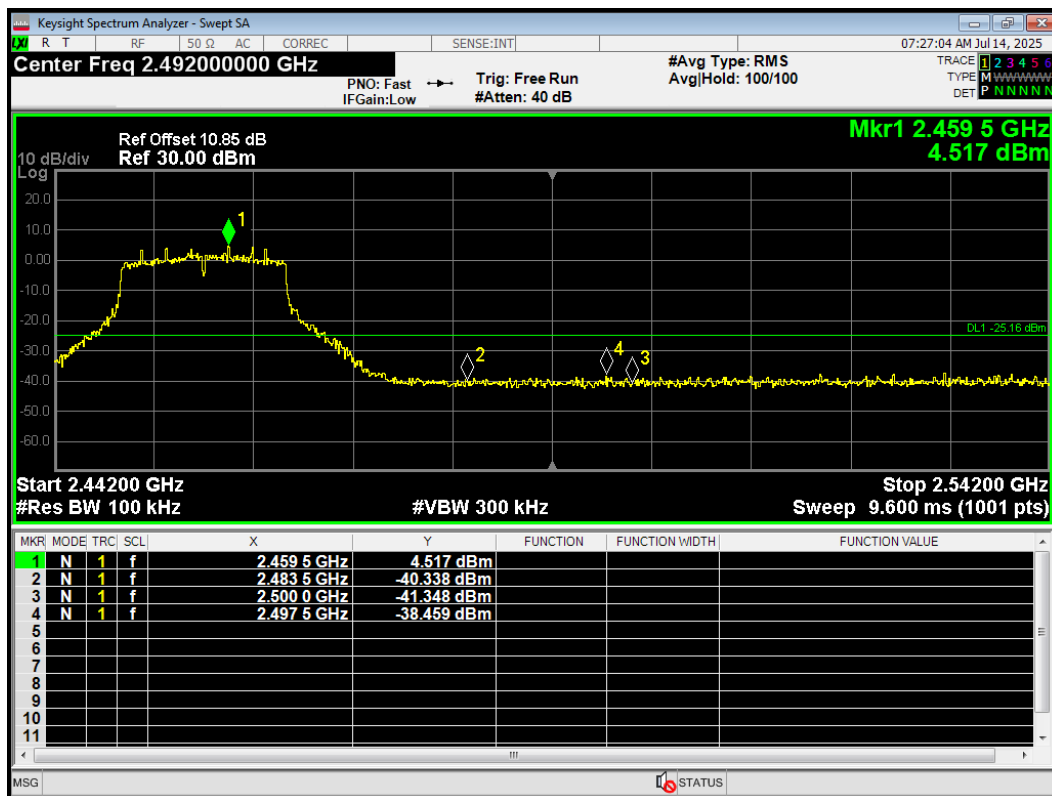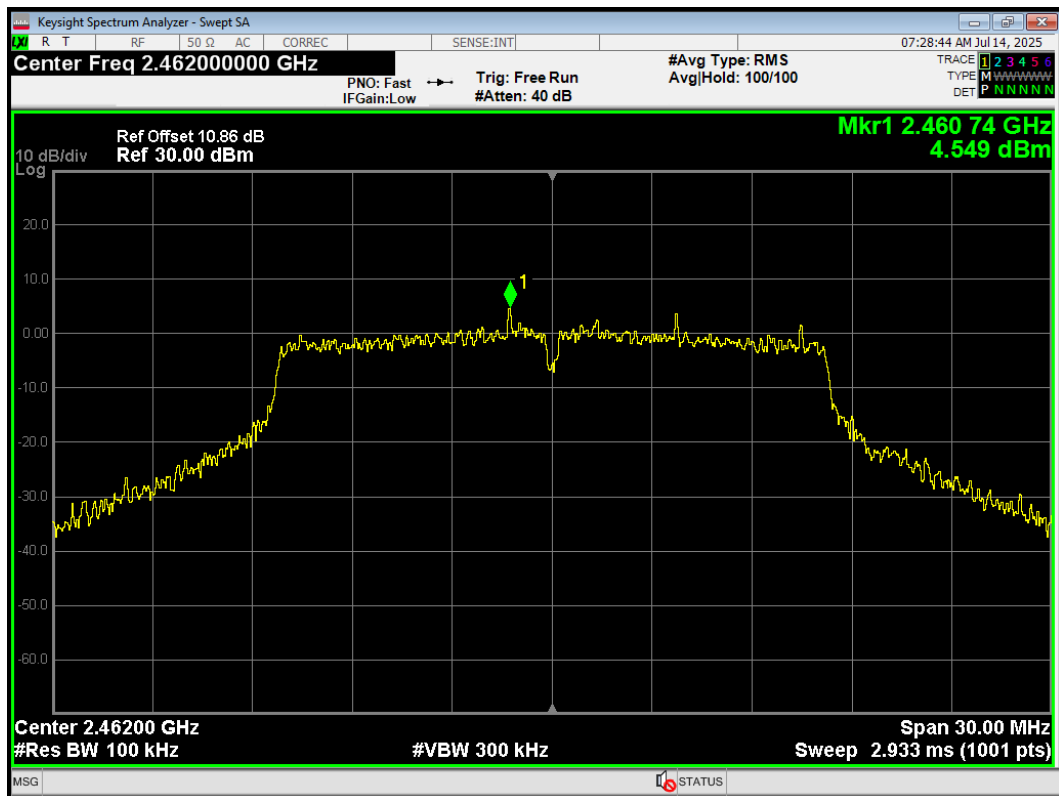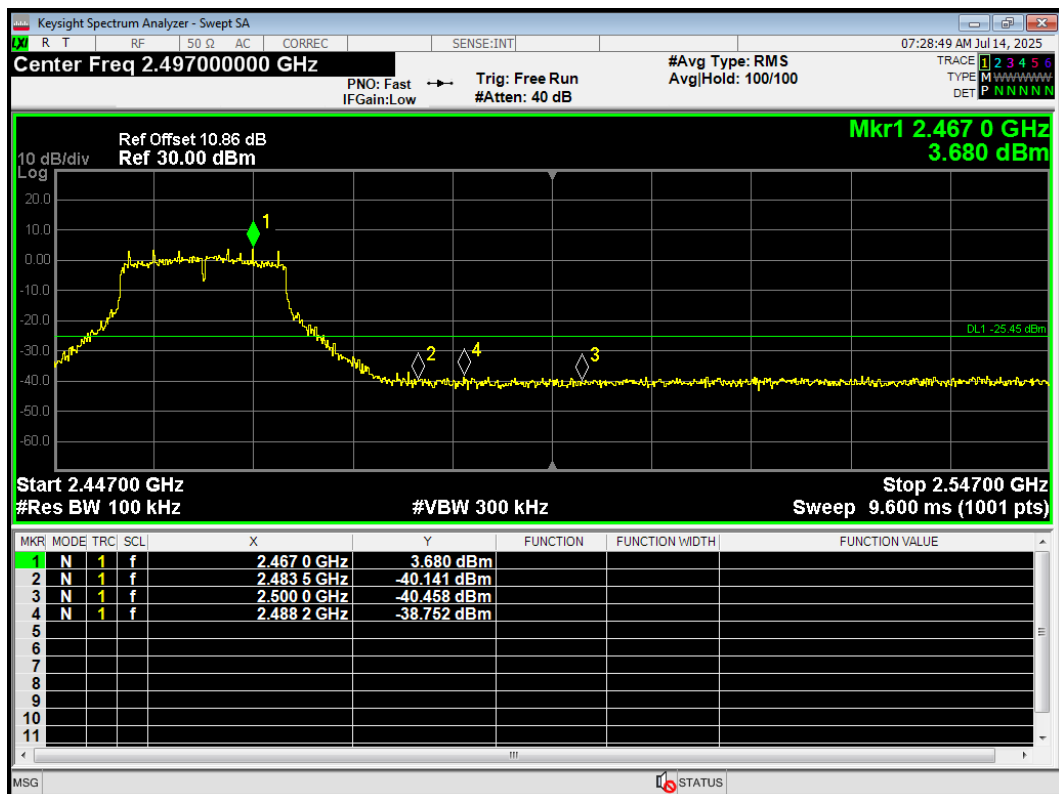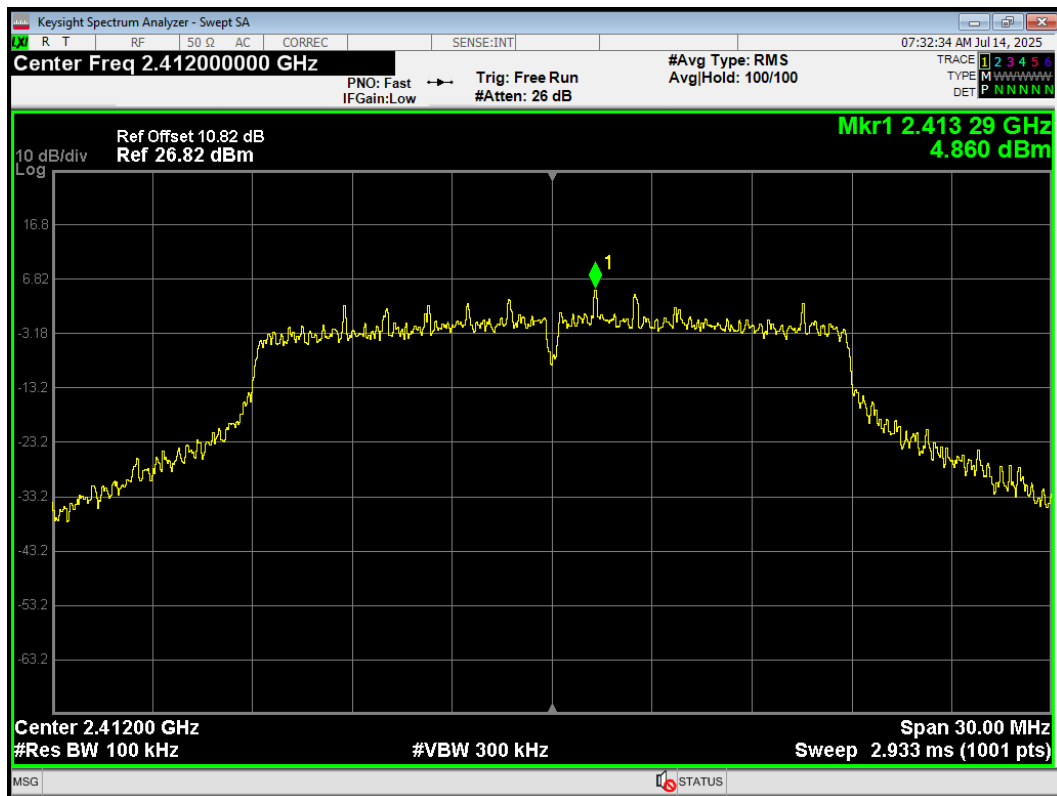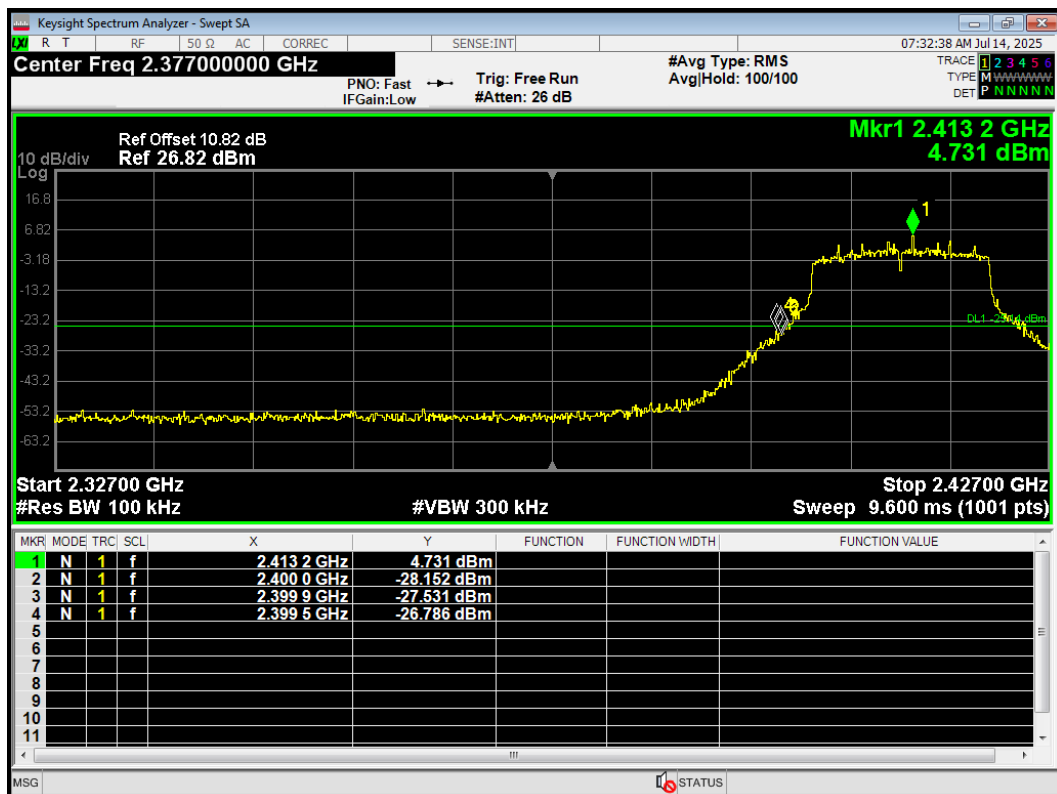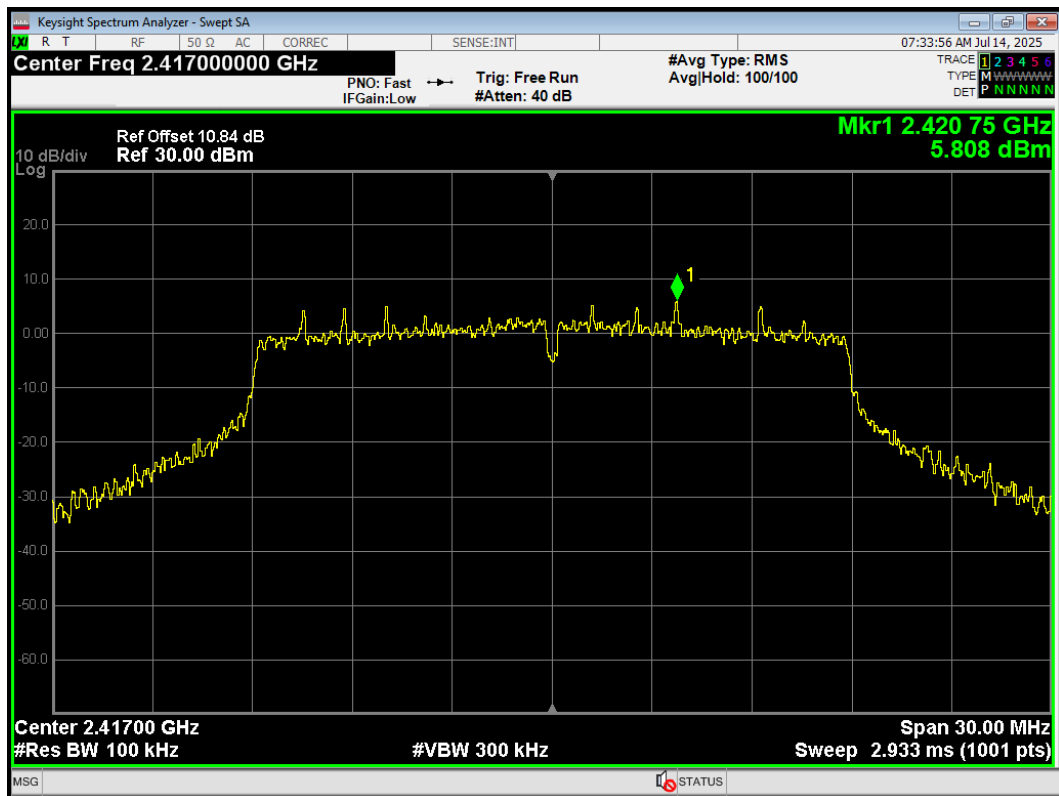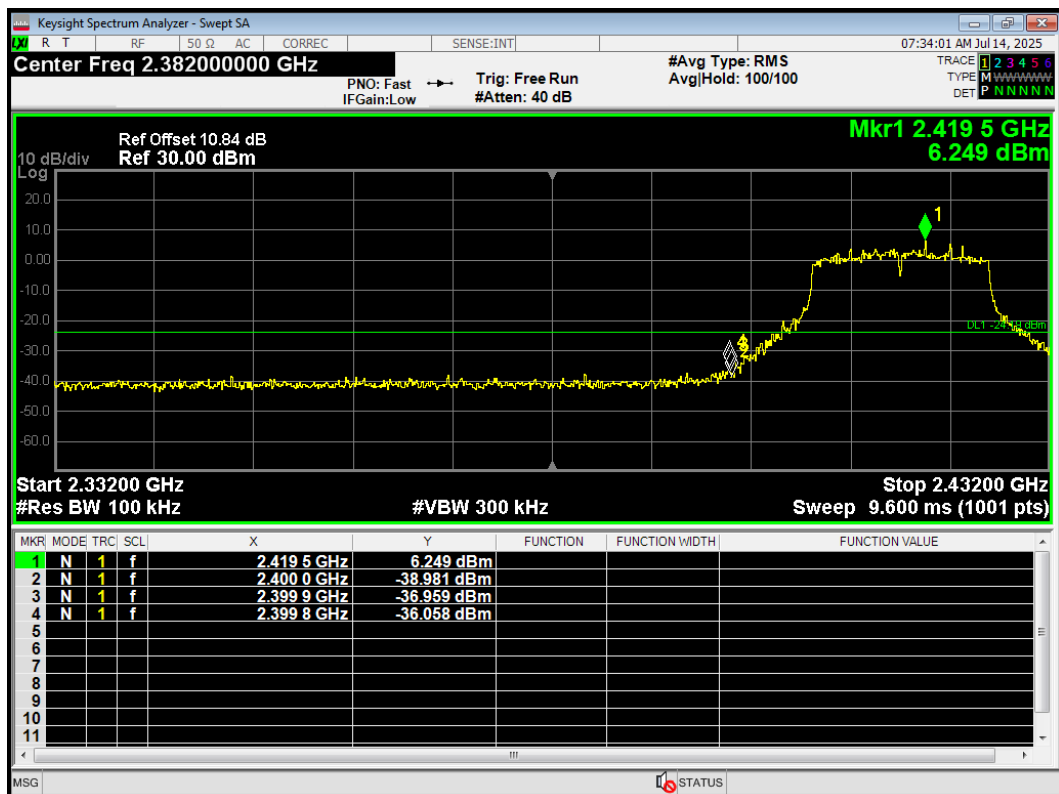**Eurofins TA Technology (Shanghai) Co., Ltd.   TA-MB-04-005R   Page 44 of 197**

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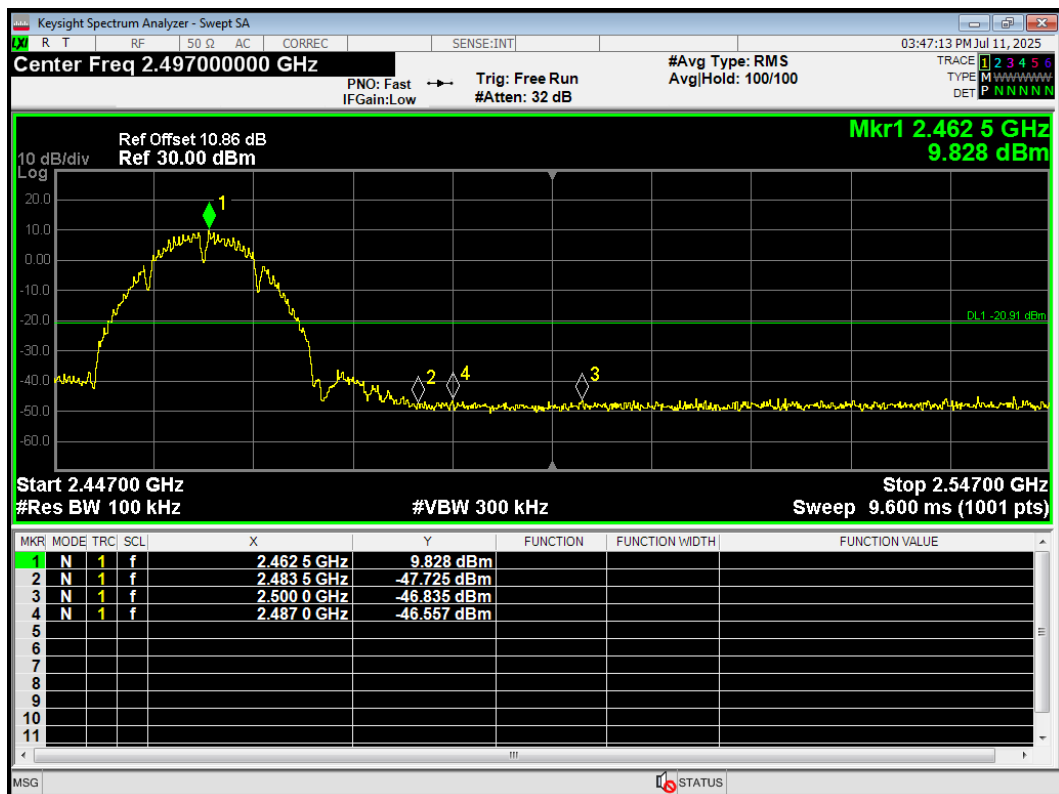
Band Edge 802.11g 2412MHz Ref
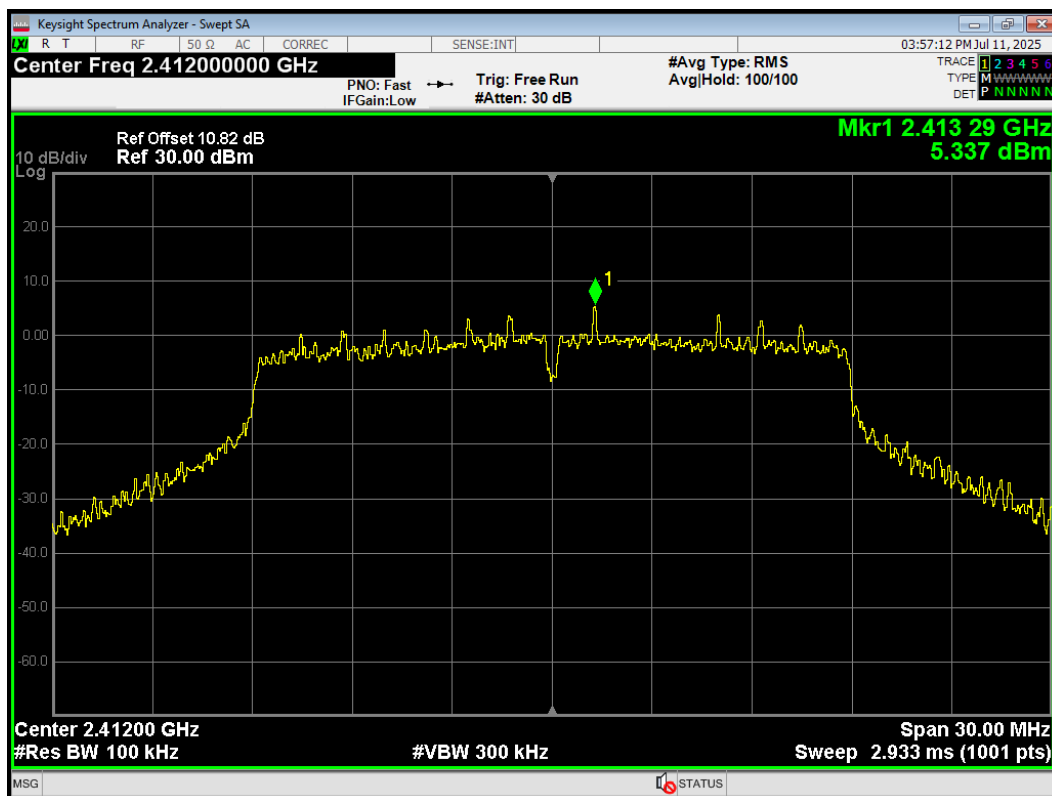
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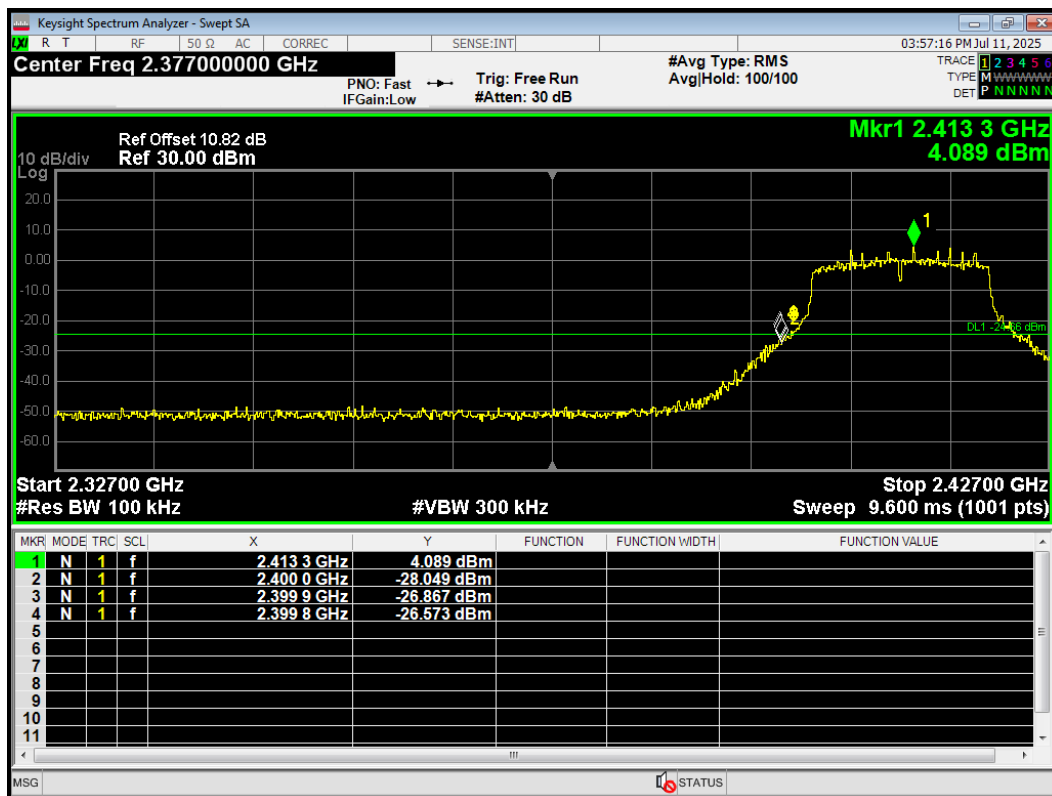
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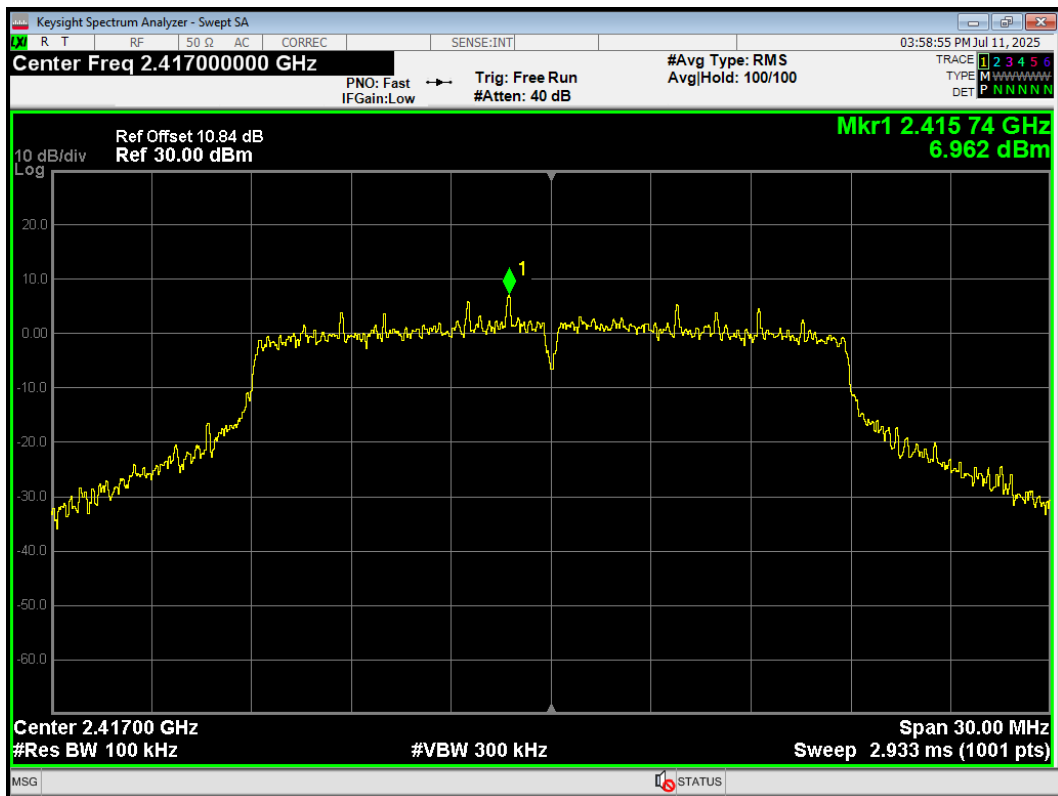
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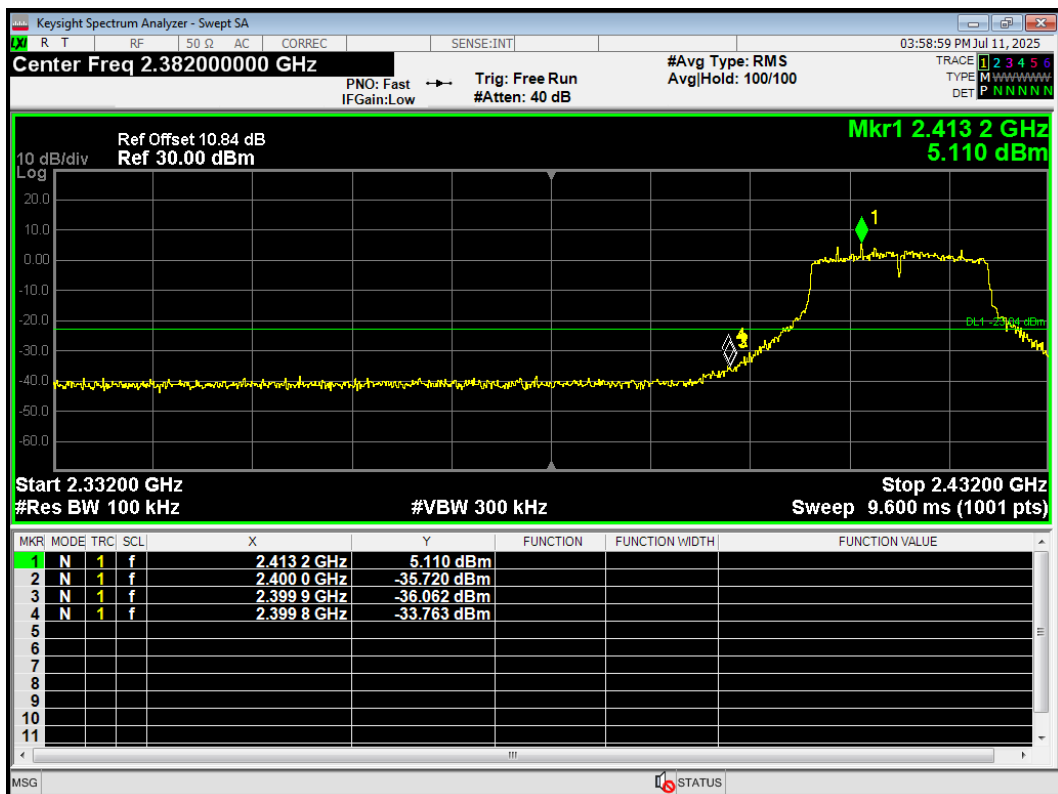
Band Edge 802.11g 2427MHz Ref

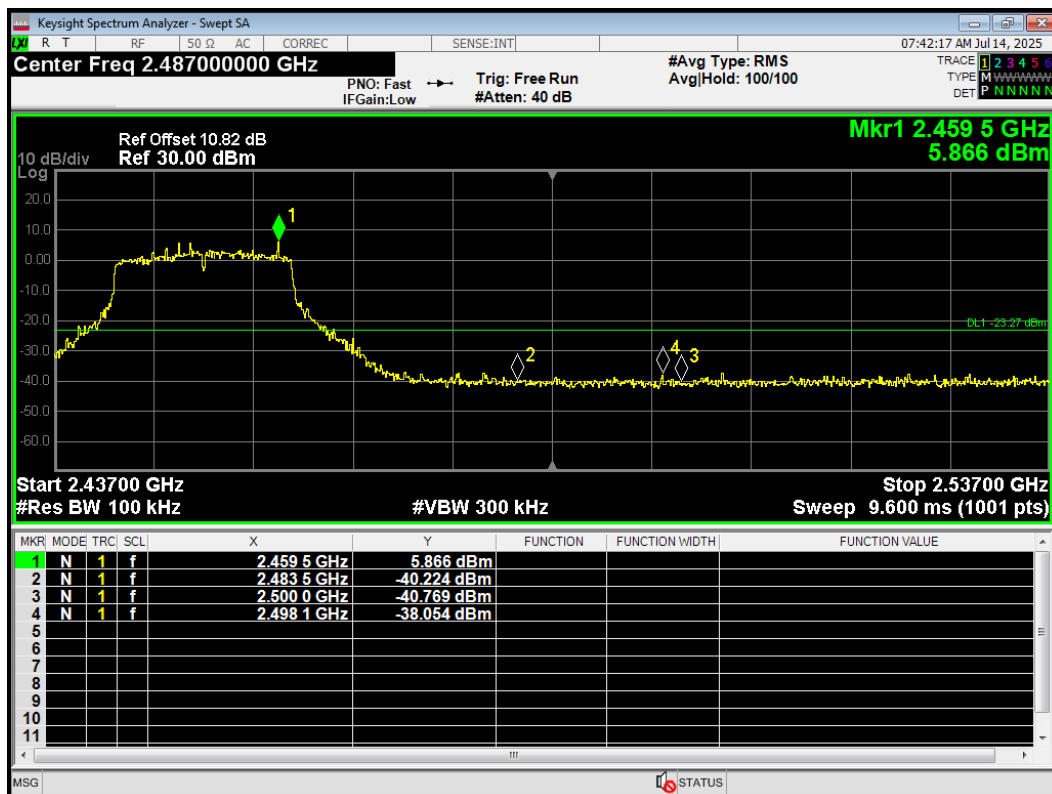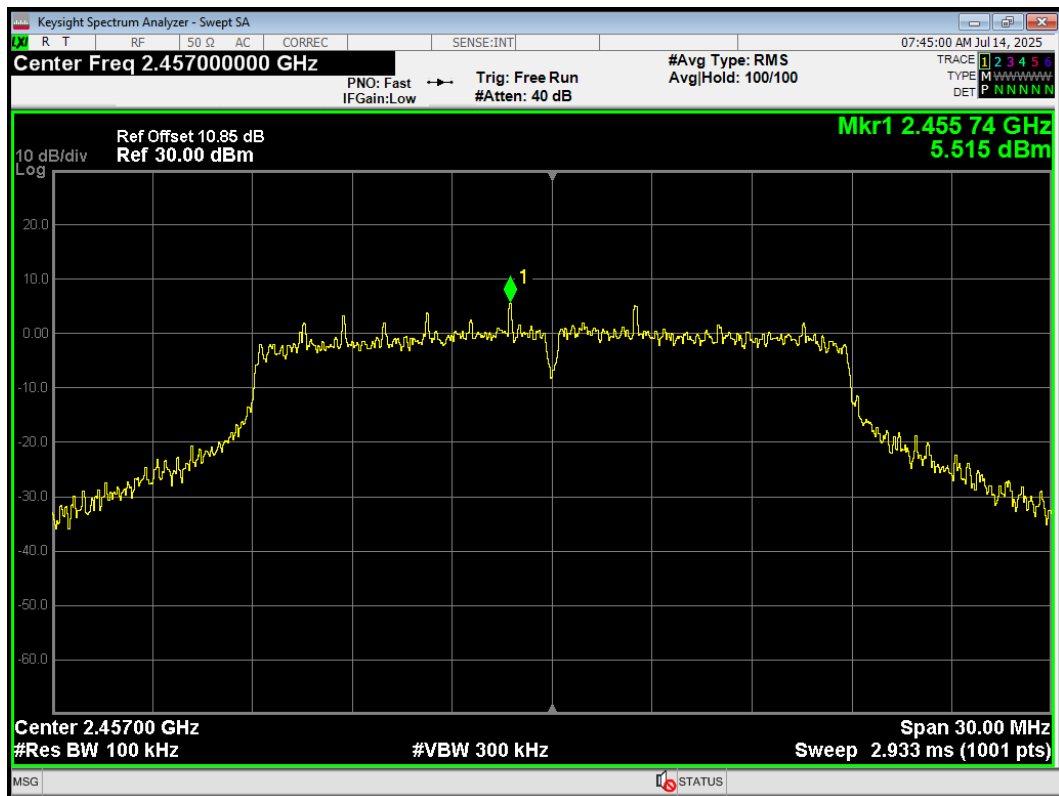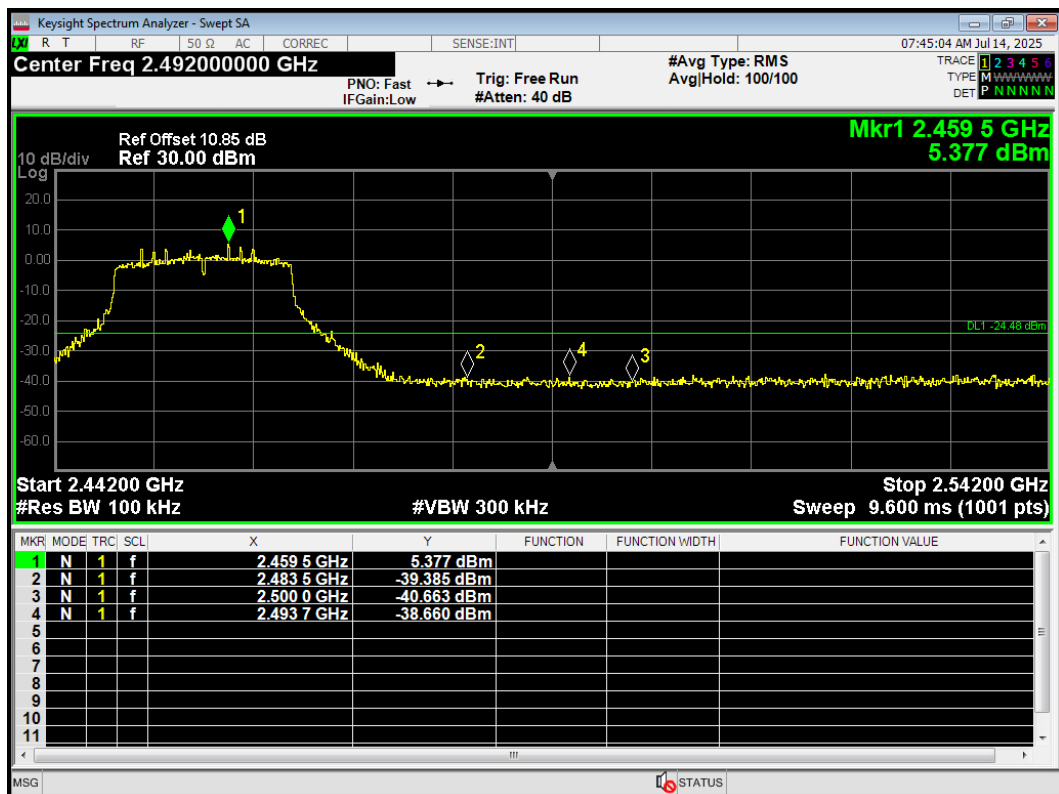Band Edge 802.11g 2427MHz Emission

Band Edge 802.11g 2452MHz Ref

Band Edge 802.11g 2452MHz Emission

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Band Edge 802.11g 2457MHz Ref

Band Edge 802.11g 2457MHz Emission

Band Edge 802.11g 2462MHz Ref

Band Edge 802.11g 2462MHz Emission

Band Edge 802.11n(HT20) 2412MHz Ref

Band Edge 802.11n(HT20) 2412MHz Emission

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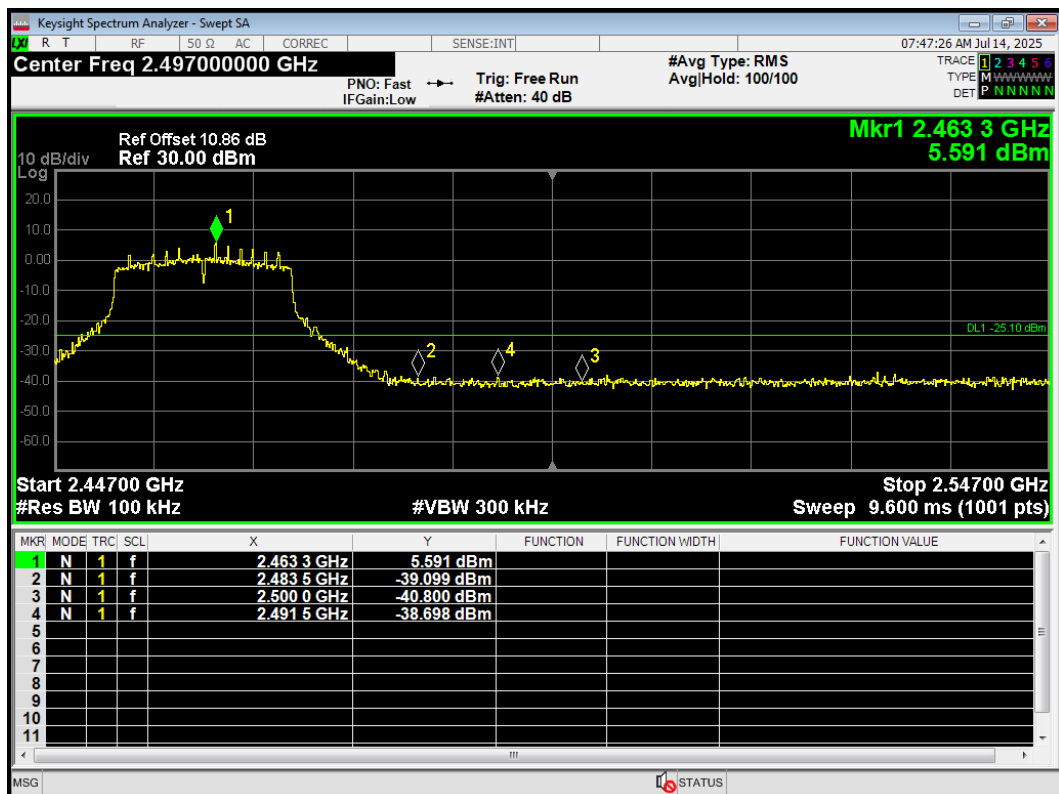
Band Edge 802.11n(HT20) 2417MHz Ref
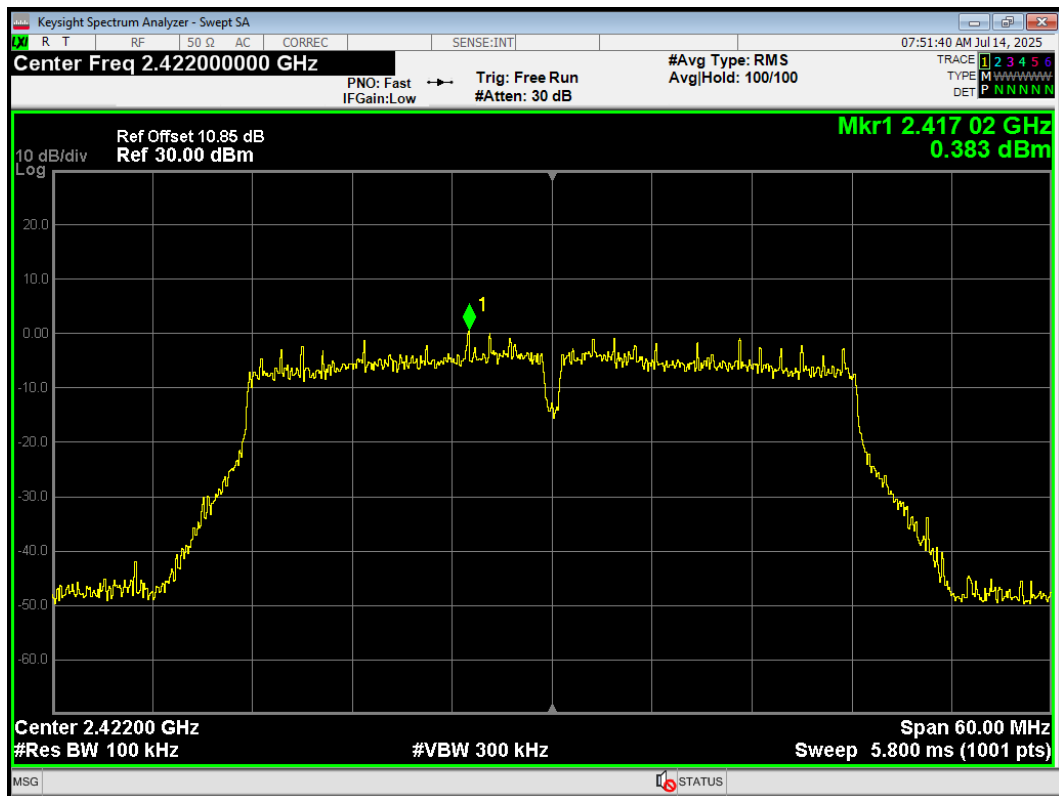

Band Edge 802.11n(HT20) 2417MHz Emission

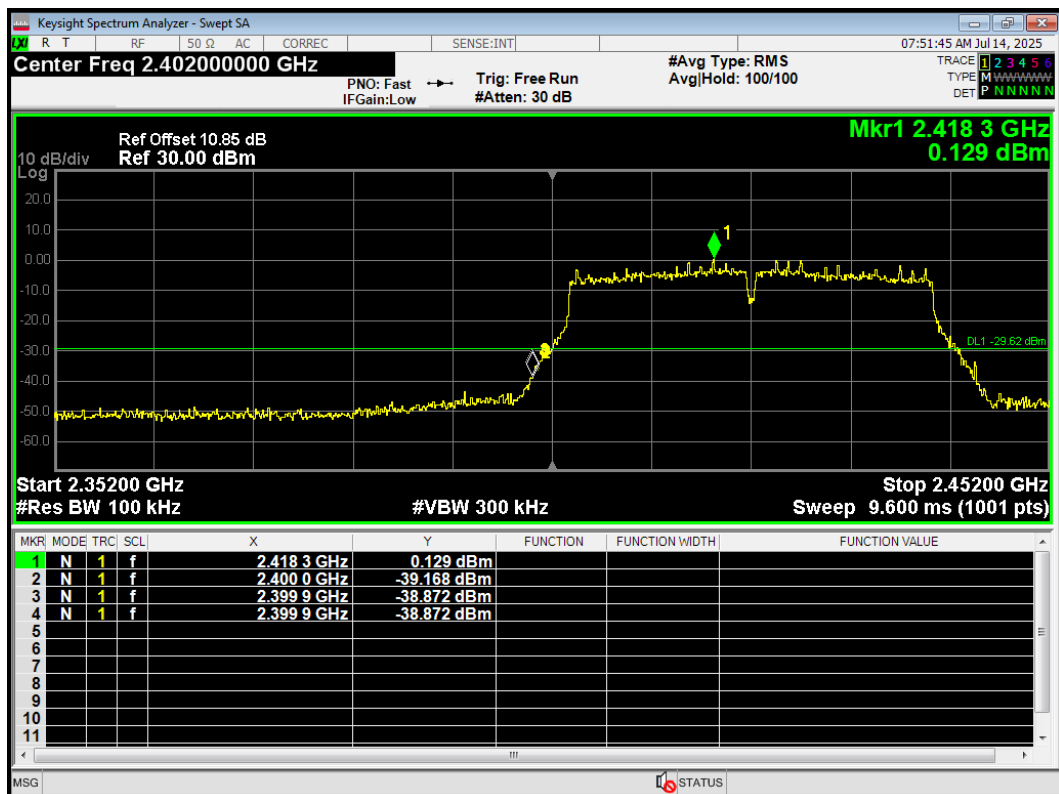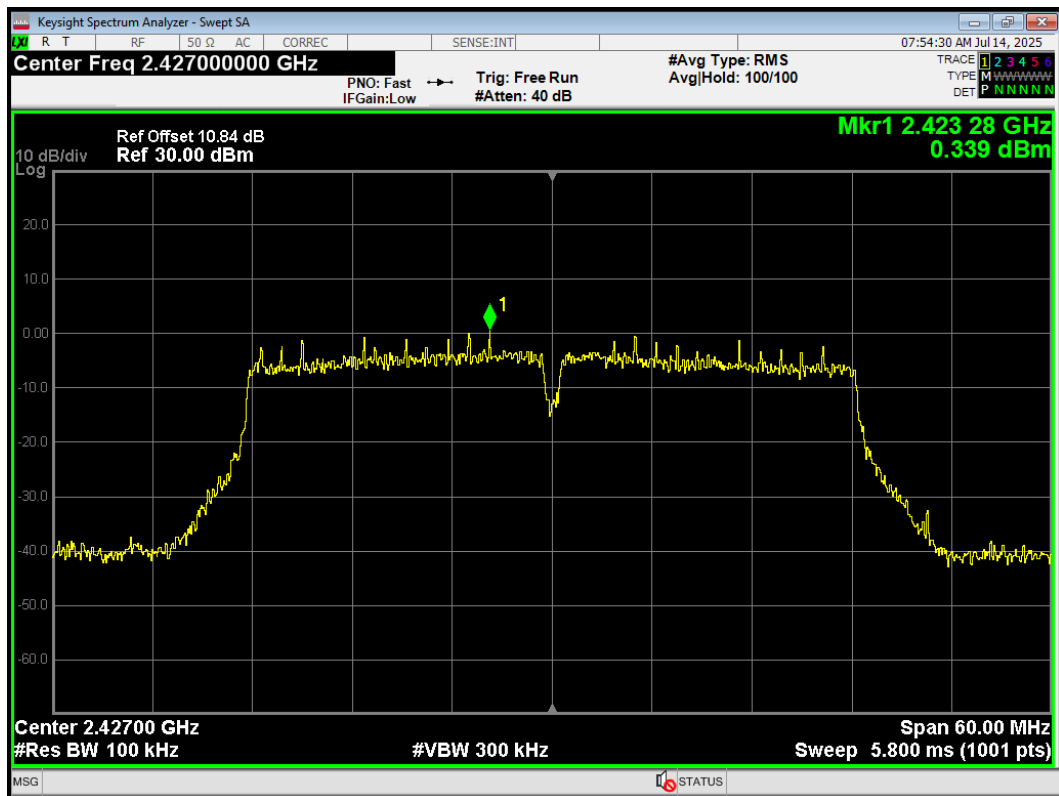Band Edge 802.11n(HT20) 2427MHz Ref
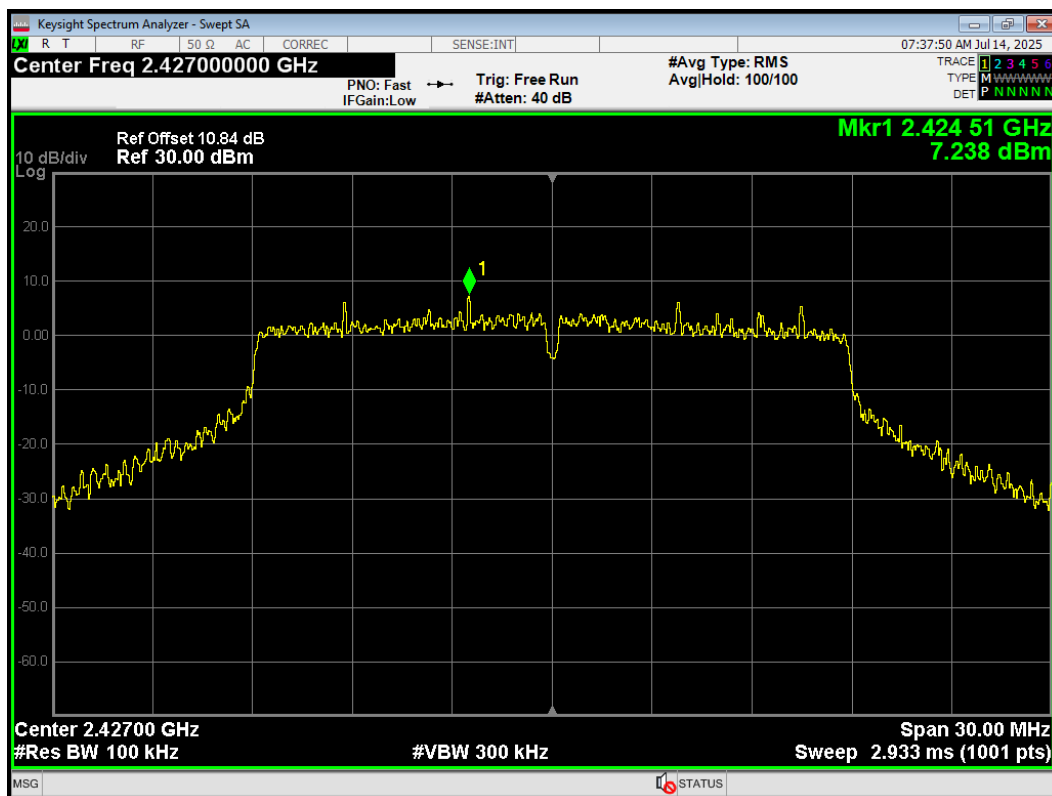
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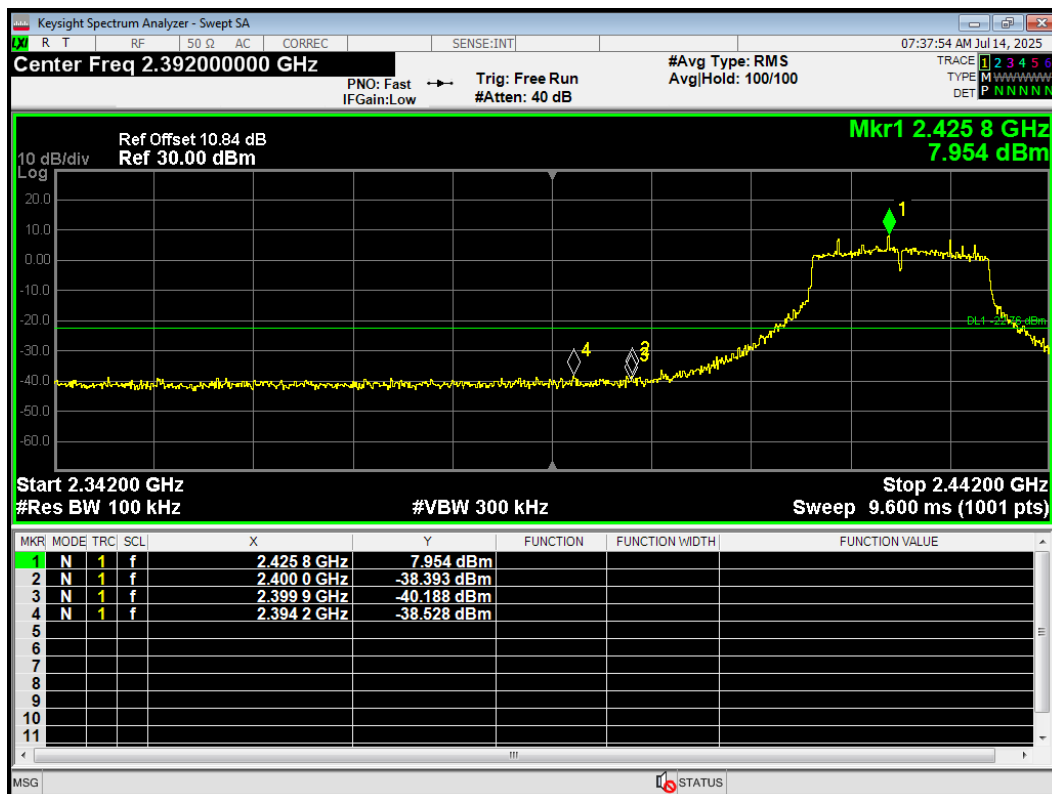
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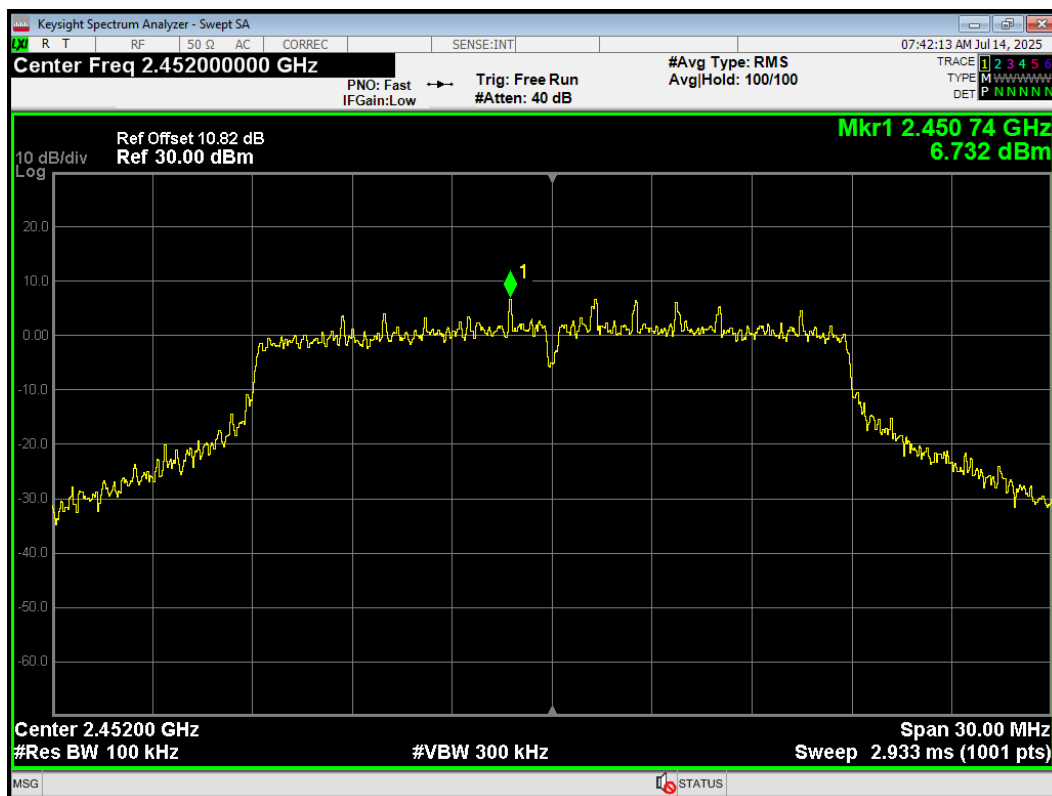
Band Edge 802.11n(HT20) 2452MHz Emission

Band Edge 802.11n(HT20) 2457MHz Ref

Band Edge 802.11n(HT20) 2457MHz Emission

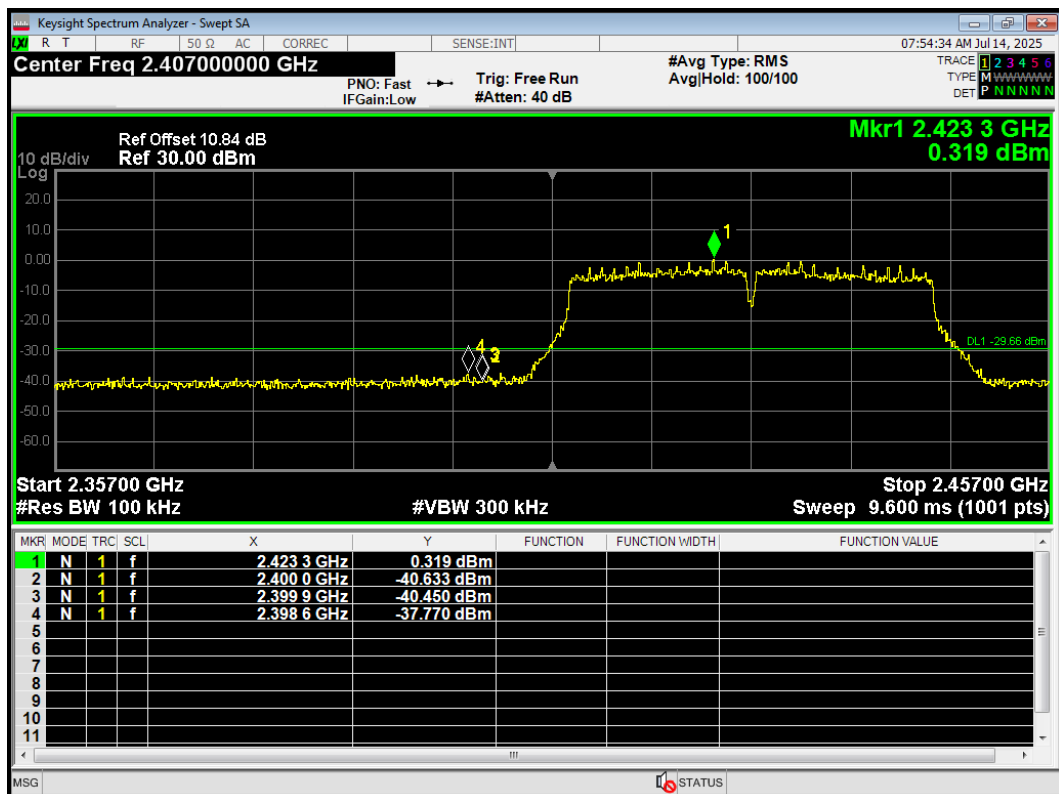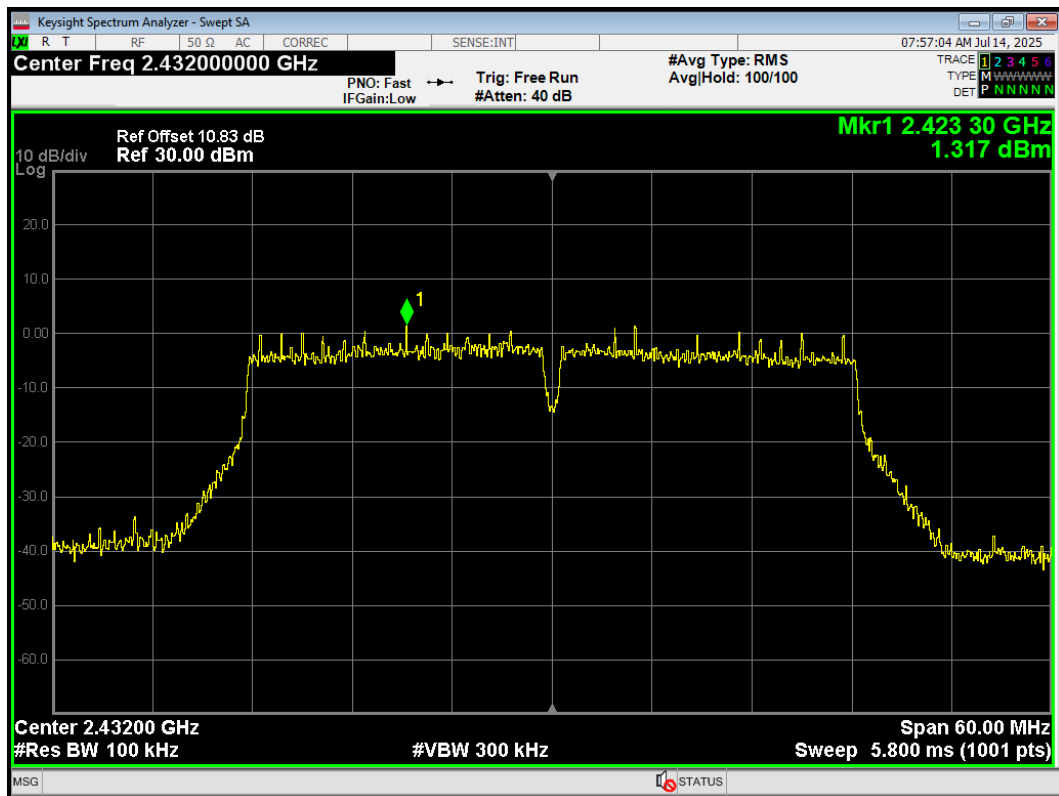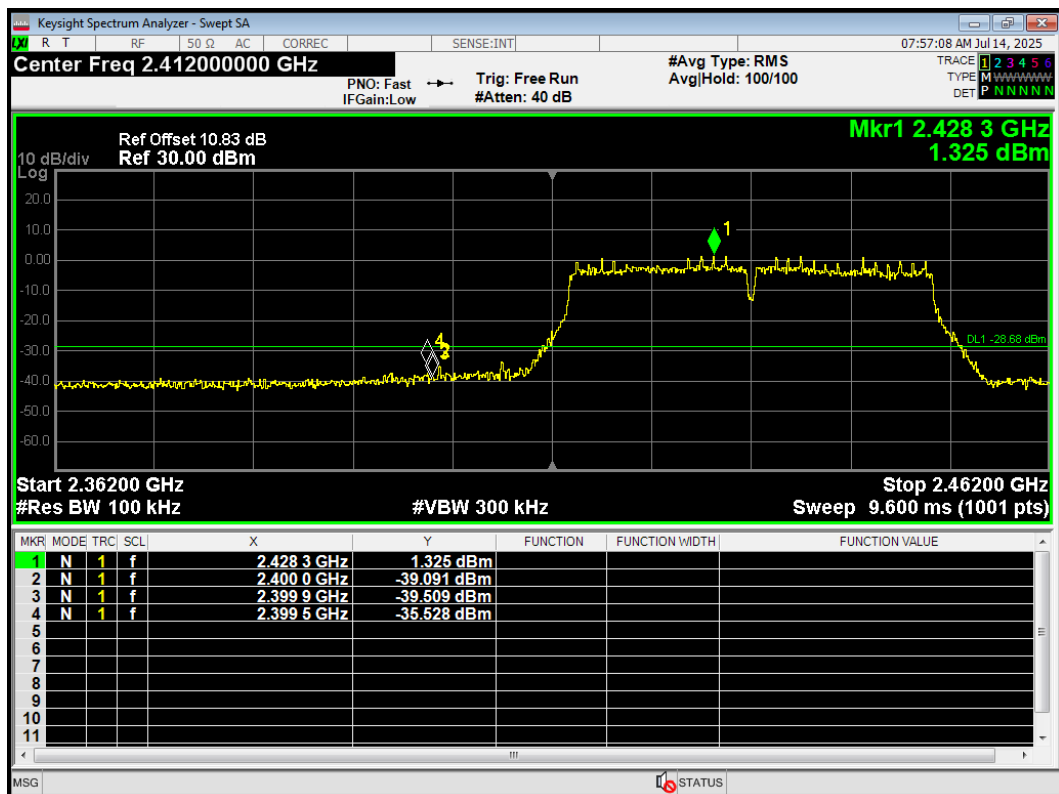Band Edge 802.11n(HT20) 2462MHz Ref
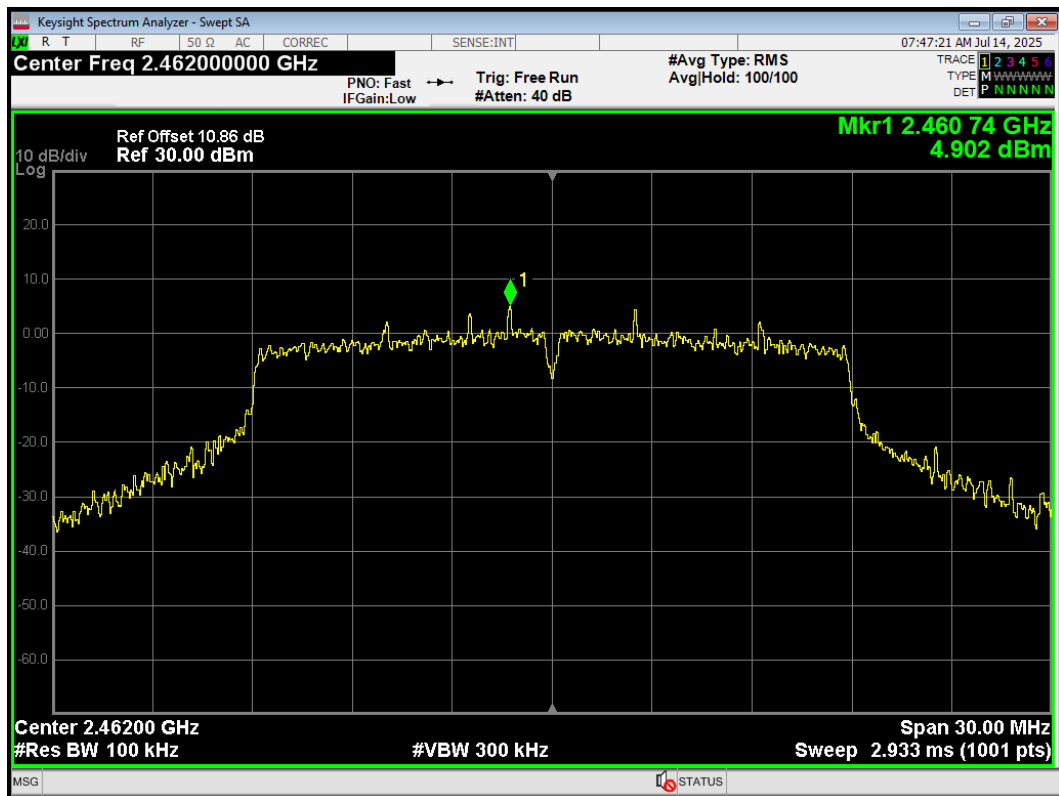
Band Edge 802.11n(HT20) 2462MHz Emission

Band Edge 802.11n(HT40) 2422MHz Ref

Band Edge 802.11n(HT40) 2422MHz Emission

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Band Edge 802.11n(HT40) 2427MHz Ref

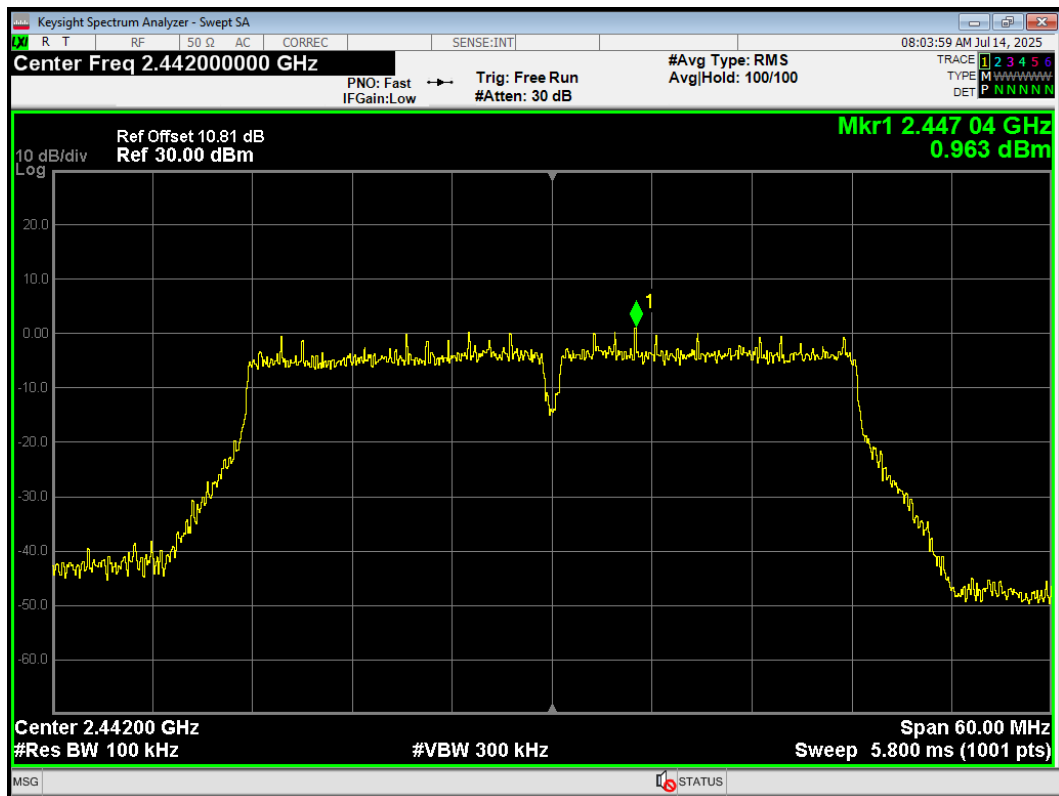Band Edge 802.11n(HT40) 2427MHz Emission

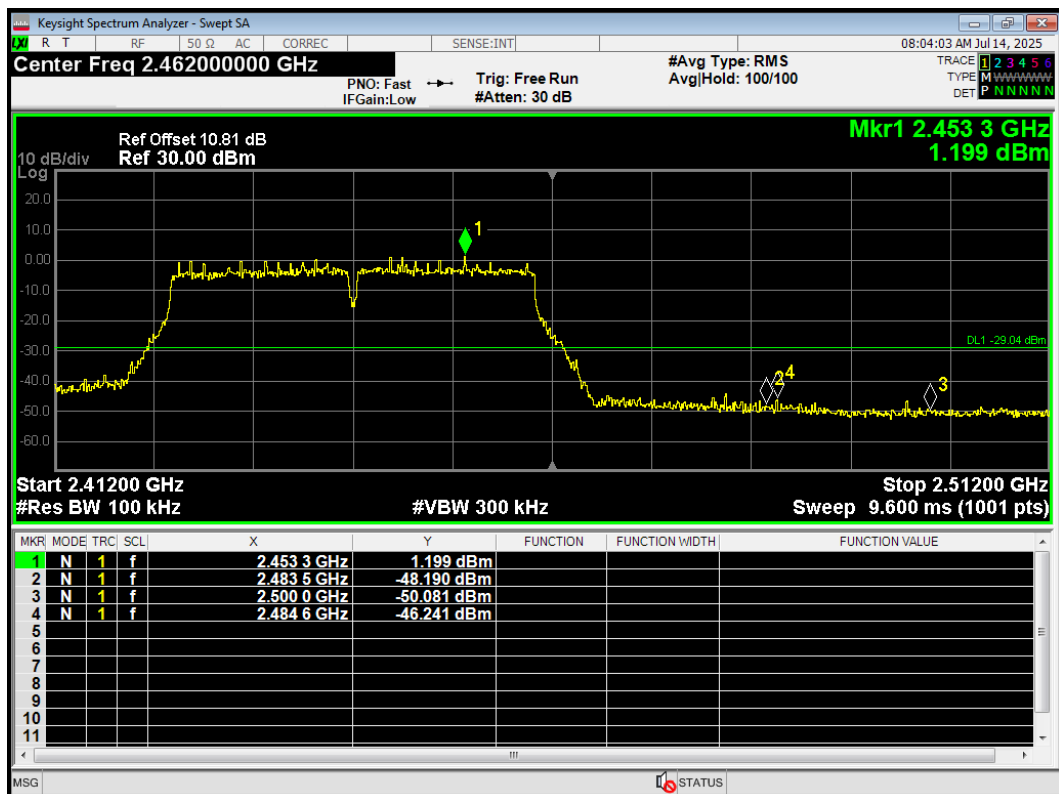Band Edge 802.11n(HT40) 2432MHz Ref

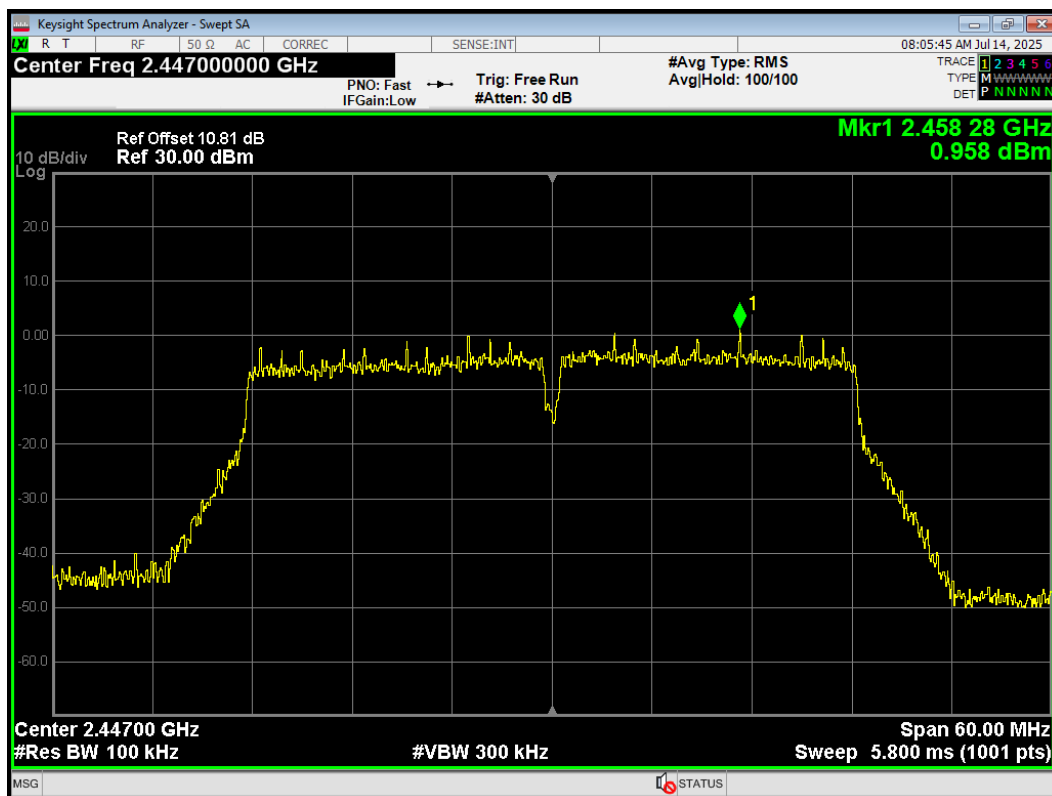Band Edge 802.11n(HT40) 2432MHz Emission

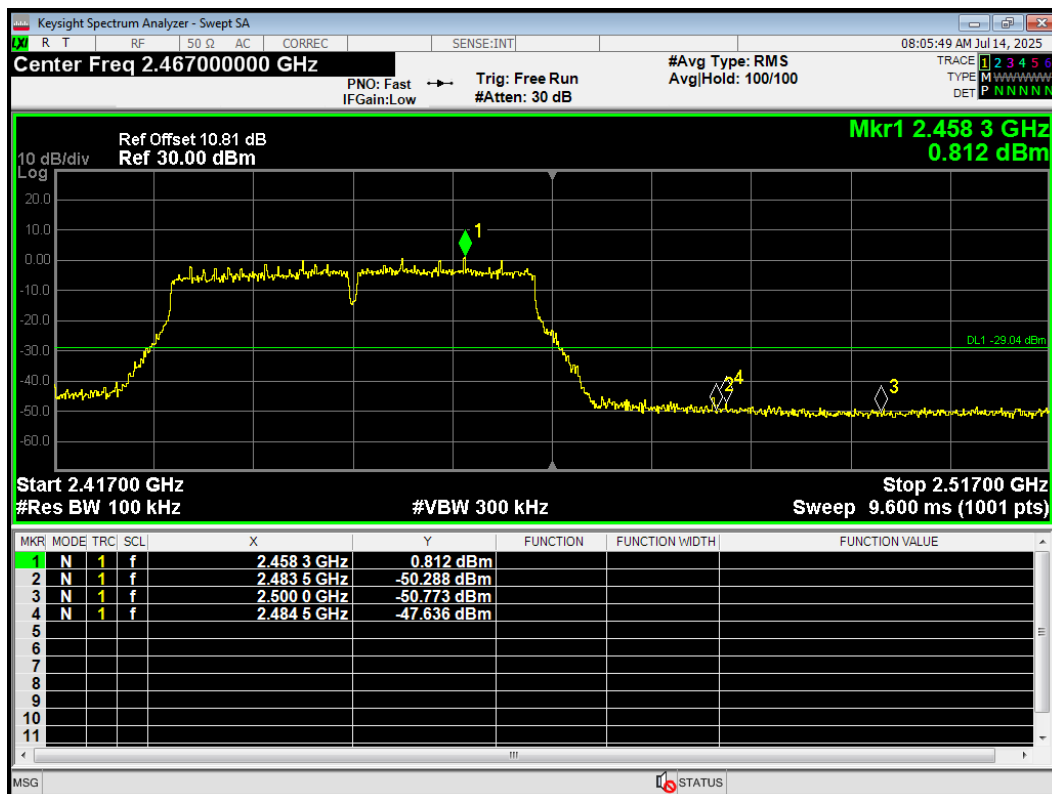Band Edge 802.11n(HT40) 2442MHz Ref

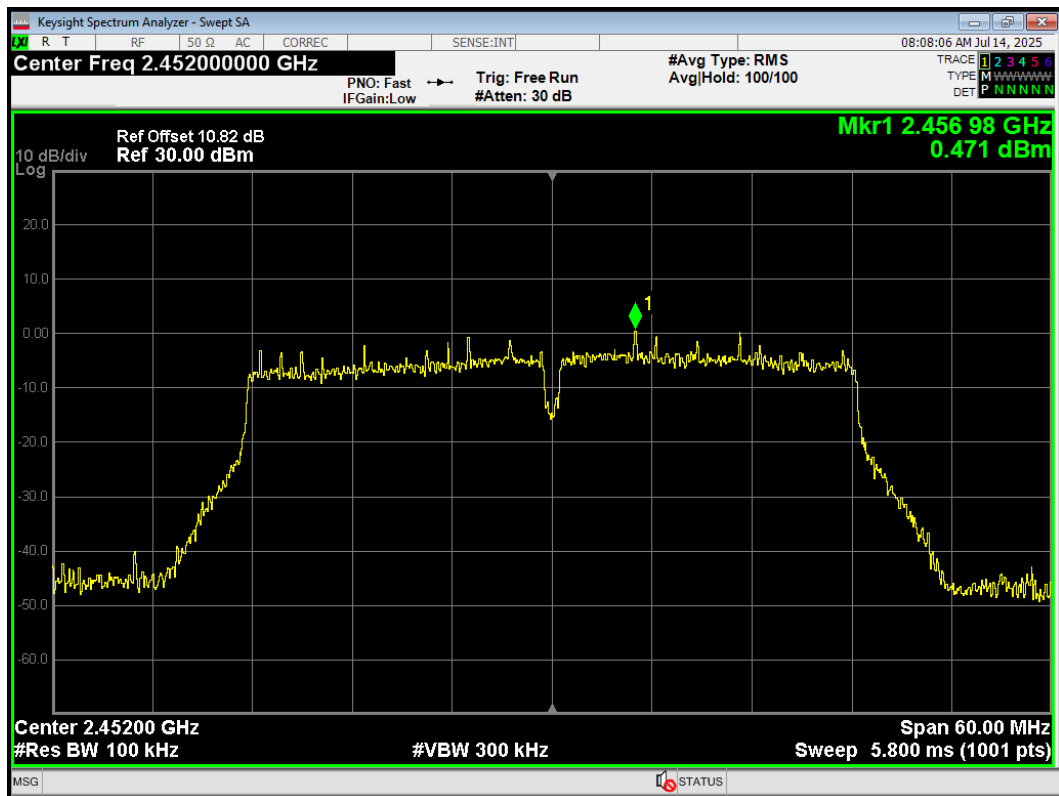Band Edge 802.11n(HT40) 2442MHz Emission

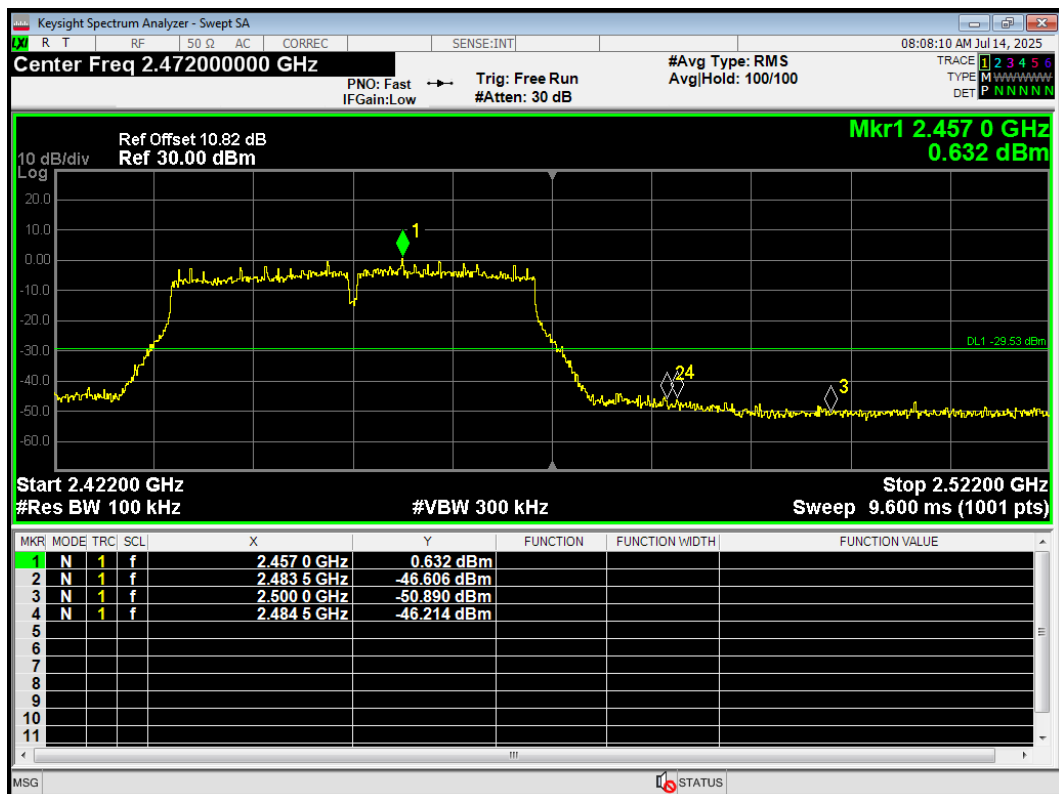Band Edge 802.11n(HT40) 2447MHz Ref
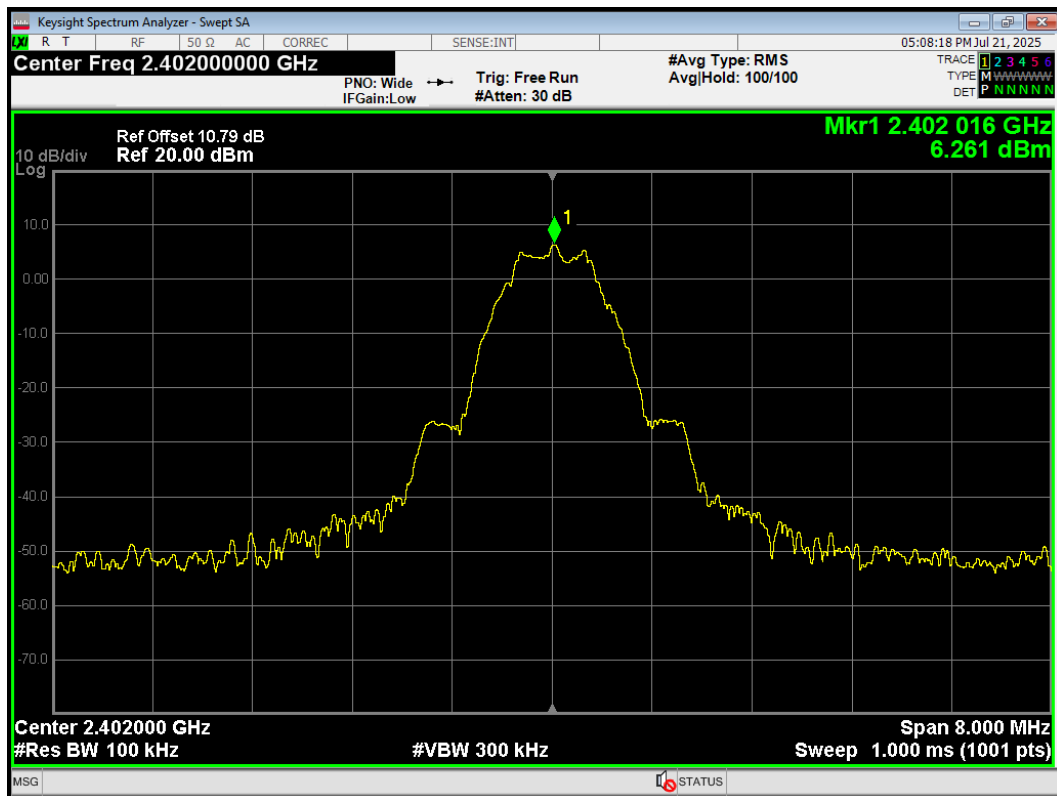

Band Edge 802.11n(HT40) 2447MHz Emission

Band Edge 802.11n(HT40) 2452MHz Ref

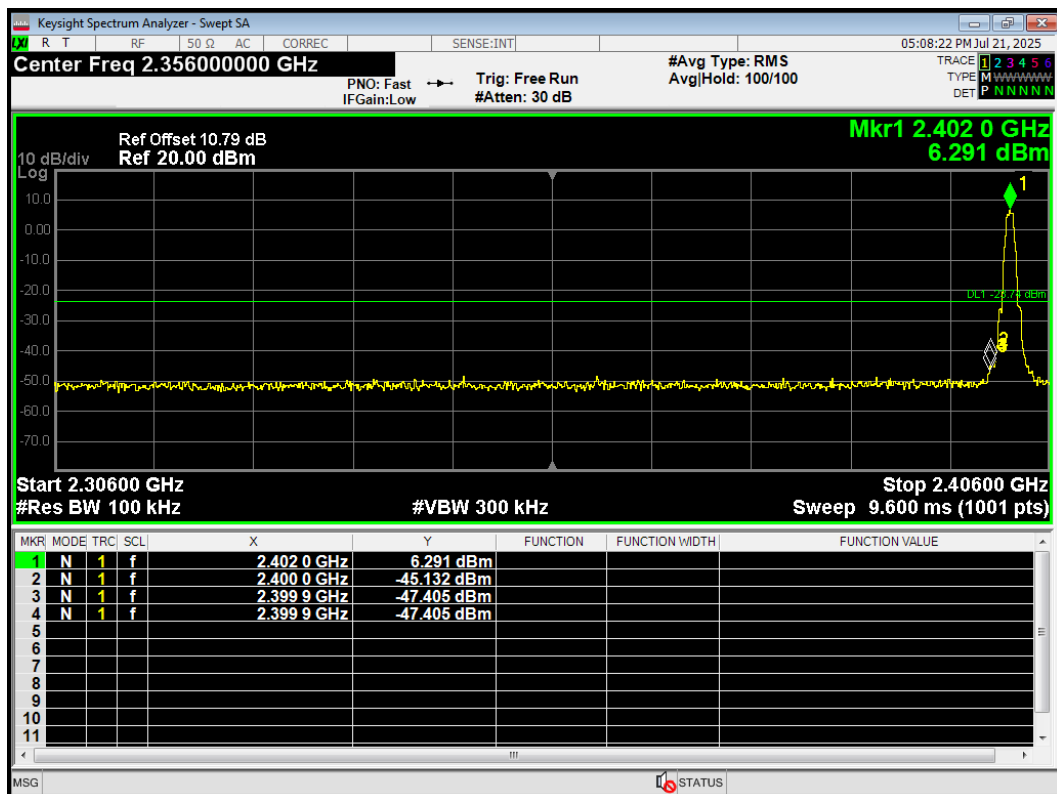

Band Edge 802.11n(HT40) 2452MHz Emission

Band Edge BLE 2402MHz Ref

Band Edge BLE 2402MHz Emission

Band Edge BLE 2480MHz Ref
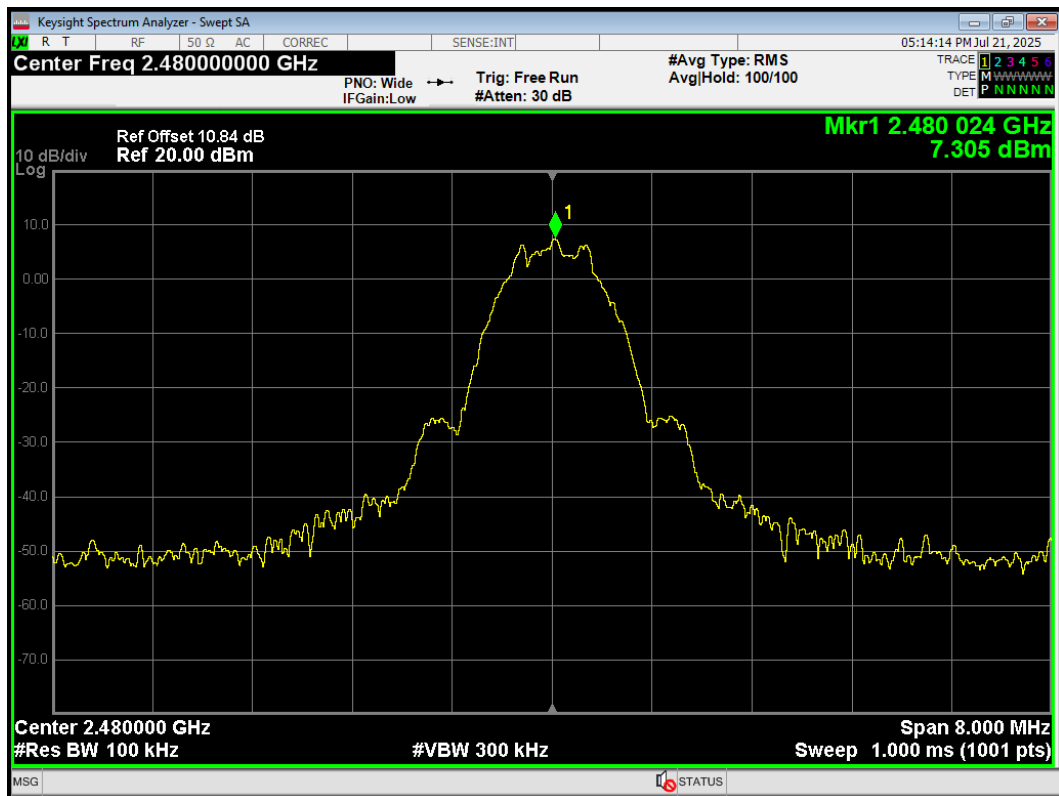
Band Edge BLE 2480MHz Emission

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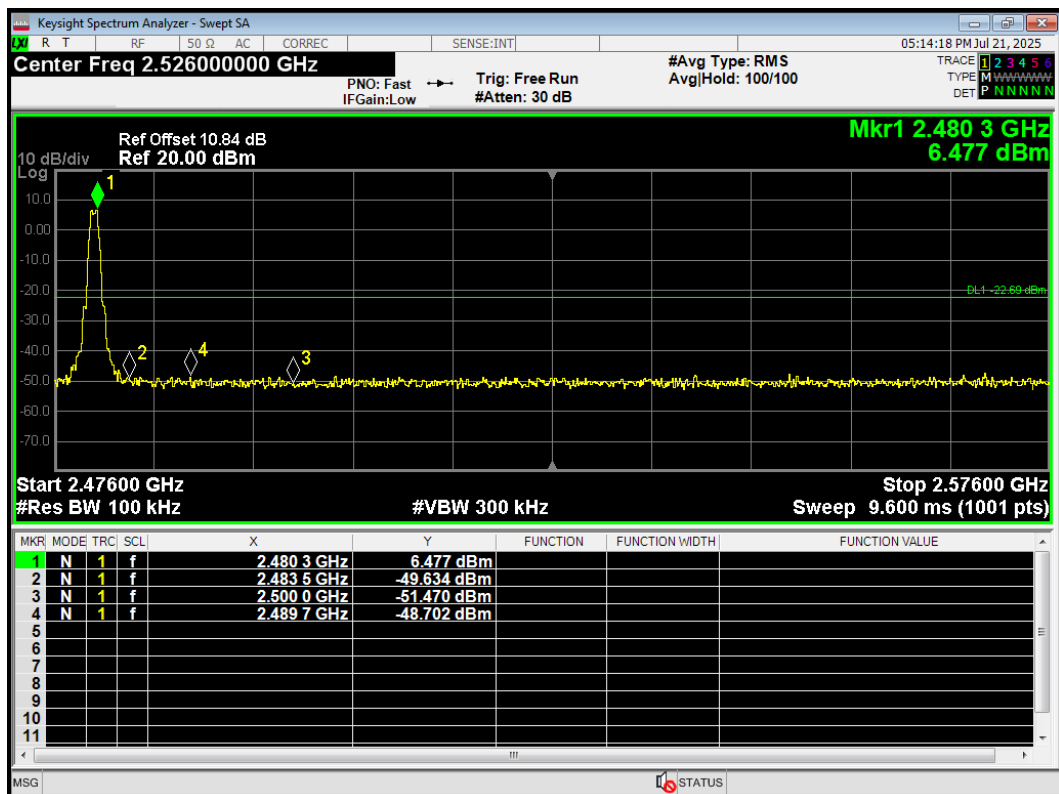
5.4. Power Spectral Density

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss.

The EUT is max power transmission with proper modulation.

Method AVGPSD-1 was used for this test.

a) Set instrument center frequency to DTS channel center frequency

b) Set span to at least 1.5 times the OBW

c) Set RBW to:3kHz≤RBW≤100kHz

d) Set VBW≥[3x RBW]

e) Detector=power averaging (rms) or sample detector (when rms not available)

f) Ensure that the number of measurement points in the sweep ≥ [2 X span/RBW]

g) Sweep time auto couple

h) Employ trace averaging (rms) mode over a minimum of 100 traces

i) Use the peak marker function to determine the maximum amplitude level.

j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)


Method AVGPSD-2 was used for this test.

a) Measure the duty cycle (D)of the transmitter output signal as described in 11.6

b) Set instrument center frequency to DTS channel center frequency

c) Set span to at least 1.5 times the OBW

d) Set RBW to:3kHz≤RBW≤100kHz

e) Set VBW≥[3x RBW]

f) Detector= power averaging (rms) or sample detector (when rms not available)

g) Ensure that the number of measurement points in the sweep ≥ [2 X span/RBW]

h) Sweep time =auto couple

i) Do not use sweep triggering; allow sweep to "free run"

j) Employ trace averaging (rms) mode over a minimum of 100 traces

k) Use the peak marker function to determine the maximum amplitude level

l) Add [10 log(1/ D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time

m) If measured value exceeds requirement specified by regulatory agency then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced)

Test setup
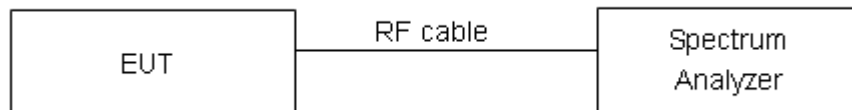
Limits

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. ''

Limits	≤ 8 dBm / 3kHz

Measurement Uncertainty
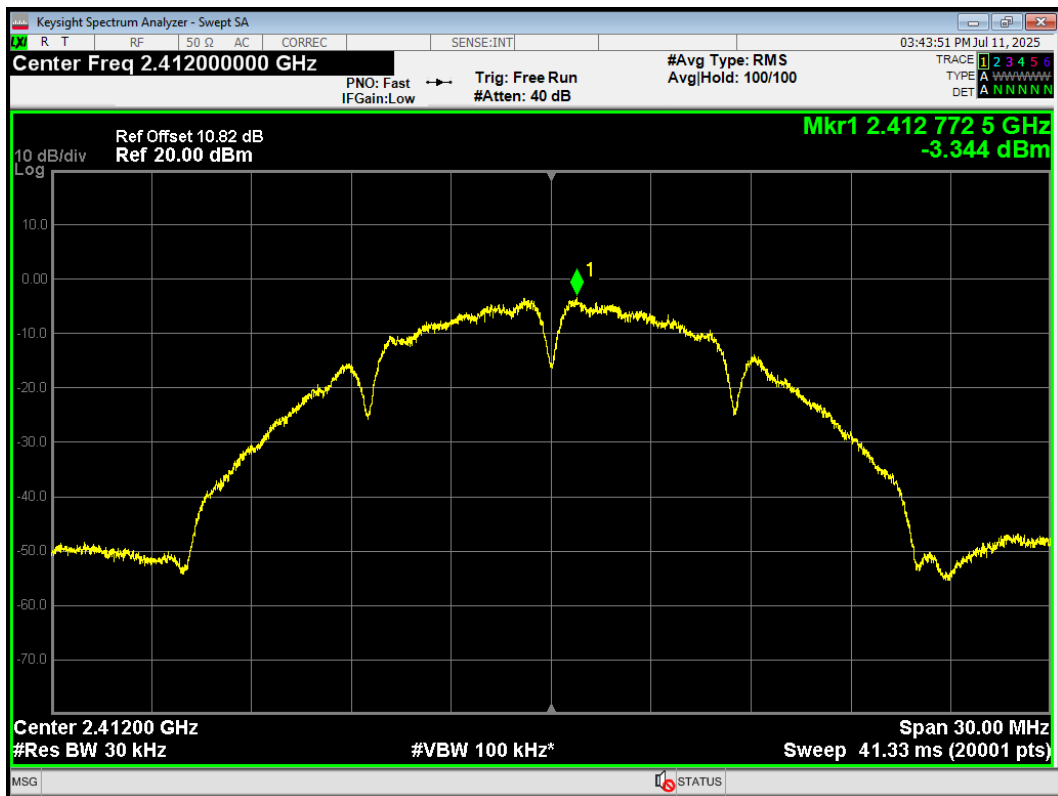
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.
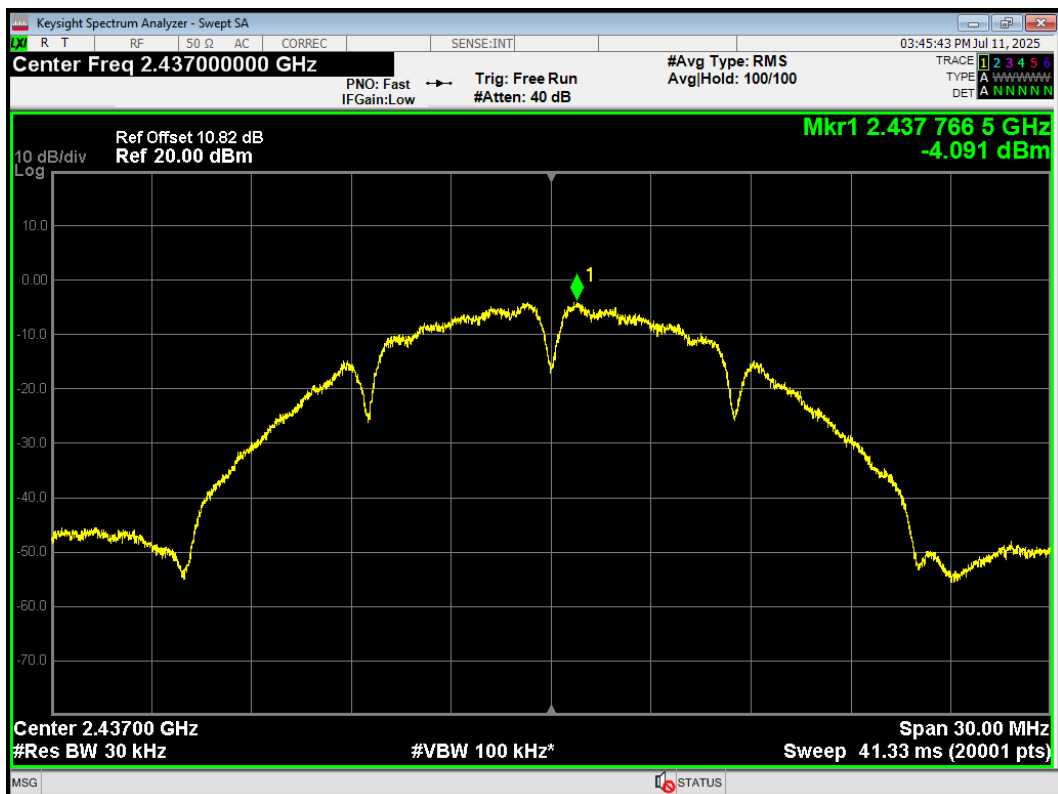
Test Results:

Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	2412/CH1	-3.34	-13.34	8	PASS
	2437/CH6	-4.09	-14.09	8	PASS
	2462/CH11	-3.49	-13.49	8	PASS
802.11g	2412/CH1	-9.58	-19.58	8	PASS
	2417/CH2	-7.48	-17.48	8	PASS
	2427/CH4	-6.06	-16.06	8	PASS
	2437/CH6	-6.70	-16.70	8	PASS
	2452/CH9	-6.49	-16.49	8	PASS
	2457/CH10	-8.49	-18.49	8	PASS
	2462/CH11	-9.09	-19.09	8	PASS
802.11n HT20	2412/CH1	-9.66	-19.66	8	PASS
	2417/CH2	-7.43	-17.43	8	PASS
	2427/CH4	-5.93	-15.93	8	PASS
	2437/CH6	-6.45	-16.45	8	PASS
	2452/CH9	-7.20	-17.20	8	PASS
	2457/CH10	-8.40	-18.40	8	PASS
	2462/CH11	-9.00	-19.00	8	PASS
802.11n HT40	2422/CH3	-12.49	-22.26	8	PASS
	2427/CH4	-13.49	-23.26	8	PASS
	2432/CH5	-12.34	-22.11	8	PASS
	2437/CH6	-12.50	-22.27	8	PASS
	2442/CH7	-12.99	-22.76	8	PASS
	2447CH8	-13.17	-22.94	8	PASS
	2452/CH9	-12.80	-22.57	8	PASS

Note: Power Spectral Density (dBm/3kHz) =Read Value+Duty cycle correction factor + 10*log10(3/30)

Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
Bluetooth (Low Energy)	2402/CH0	-13.25	-11.23	8	PASS
	2440/CH19	-11.94	-9.92	8	PASS
	2480/CH39	-11.91	-9.89	8	PASS

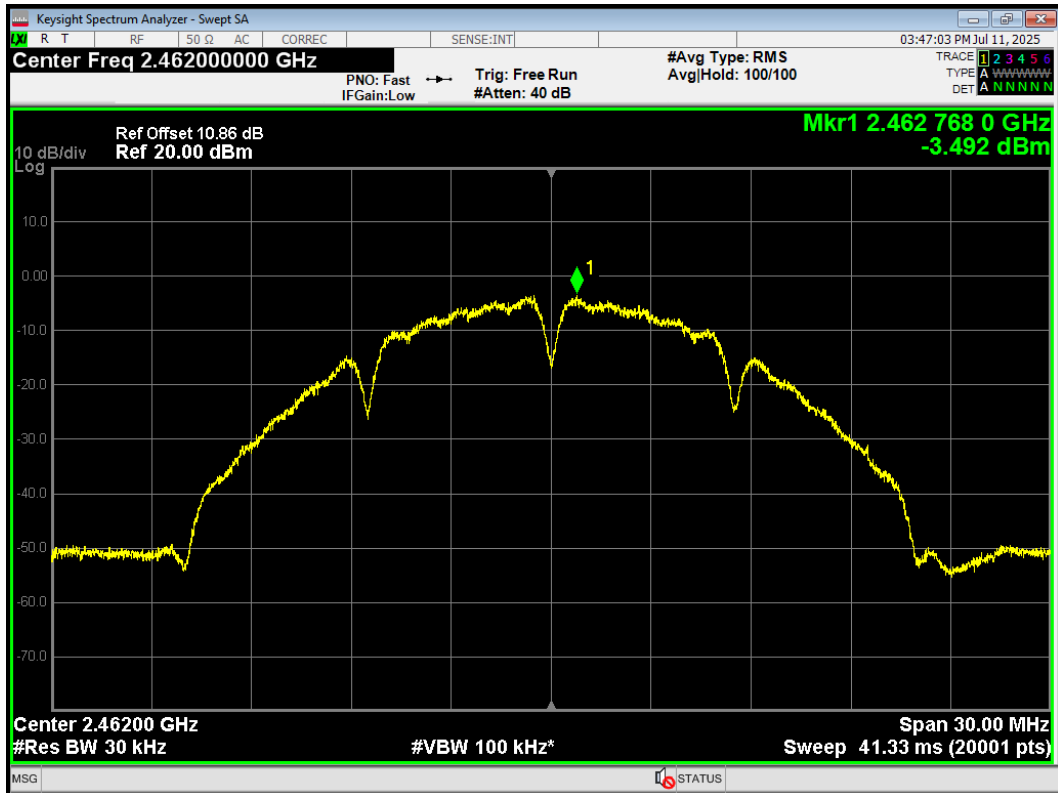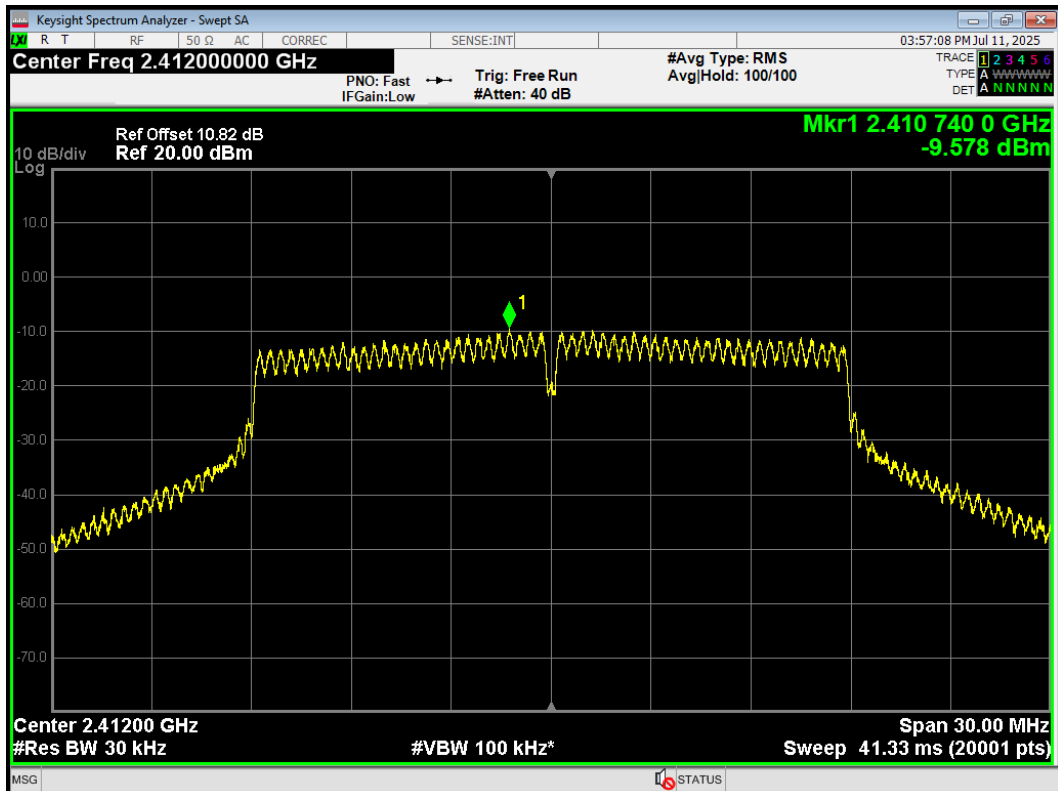Note: Power Spectral Density =Read Value+Duty cycle correction factor
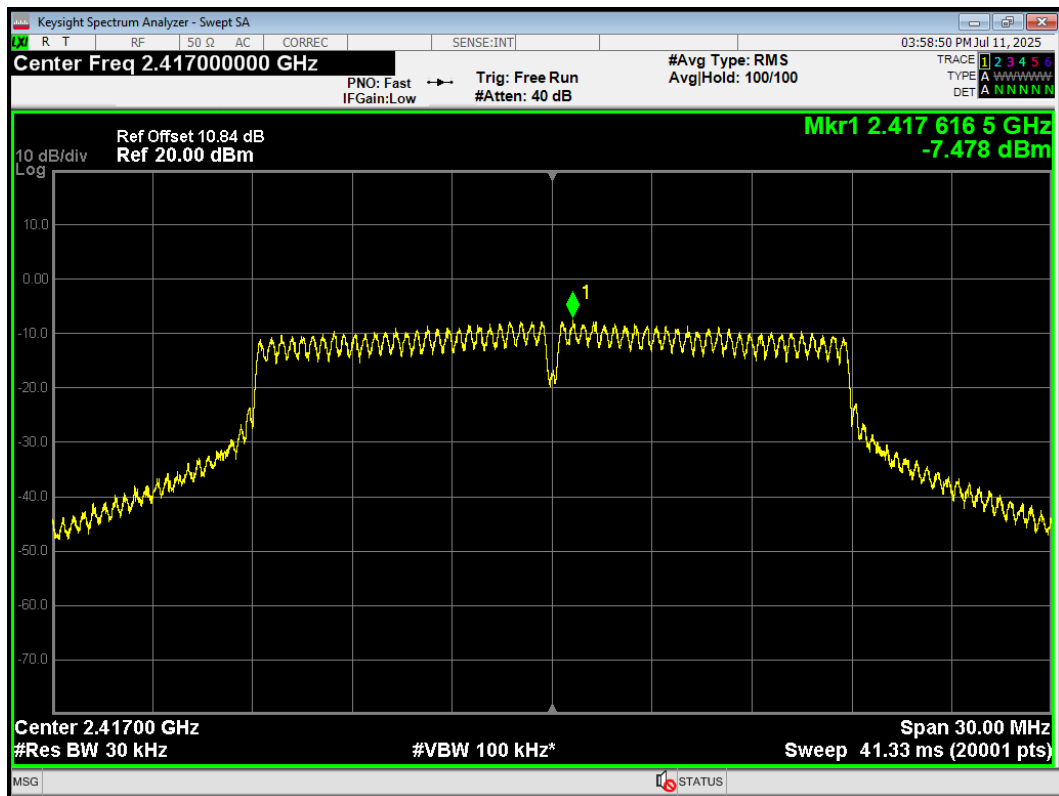
PSD 802.11b 2412MHz
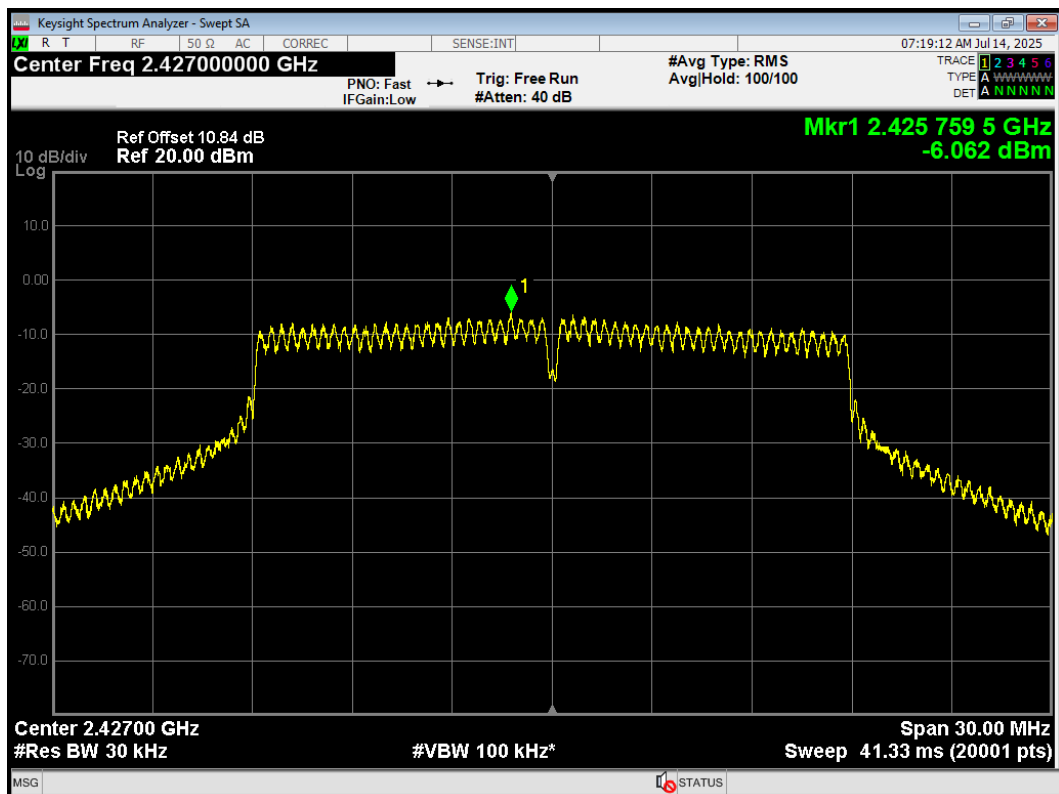

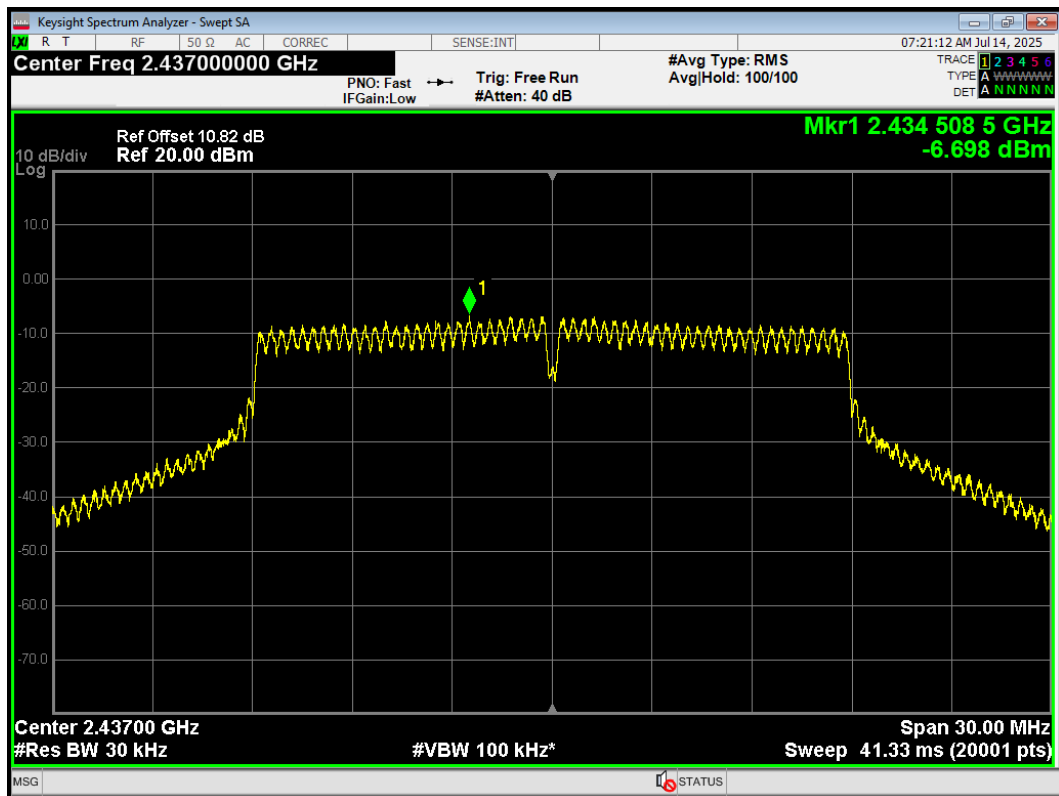PSD 802.11b 2437MHz

PSD 802.11b 2462MHz

PSD 802.11g 2412MHz

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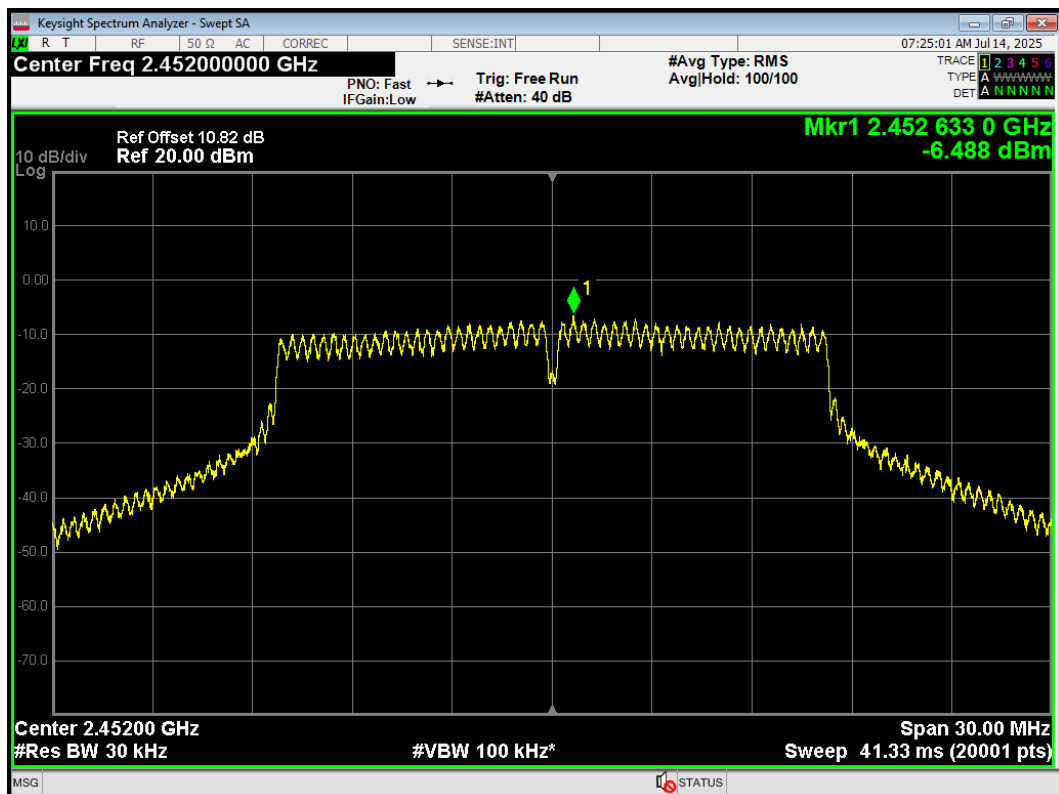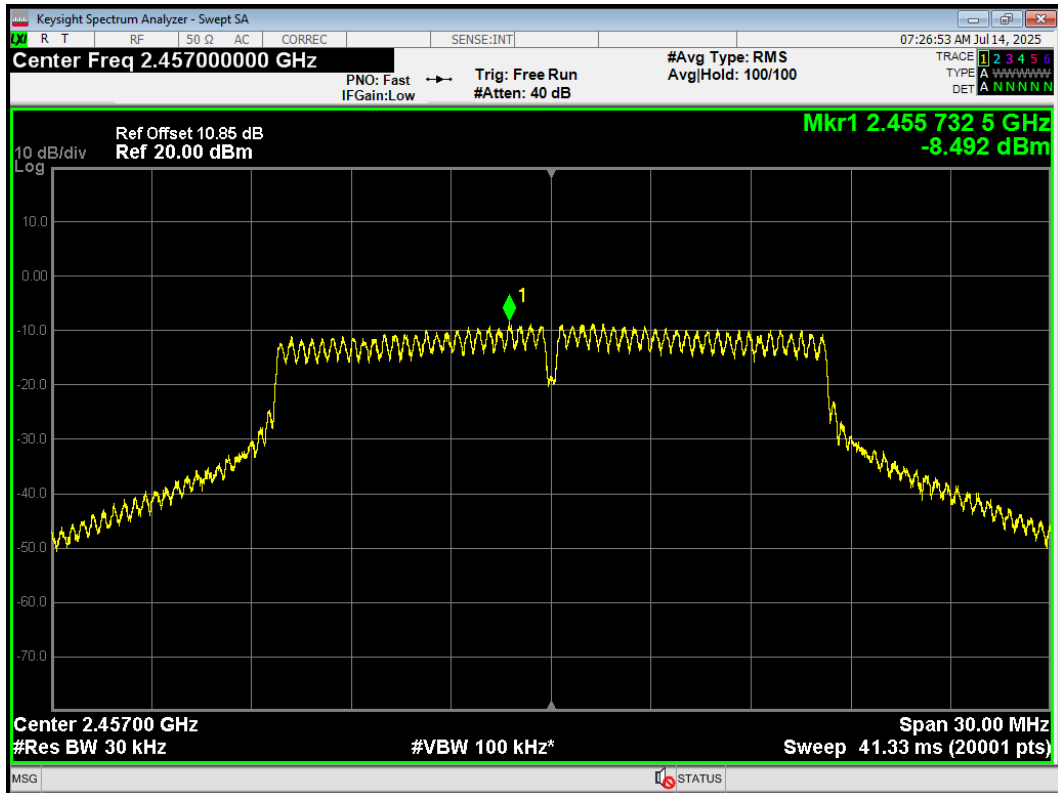
PSD 802.11g 2417MHz

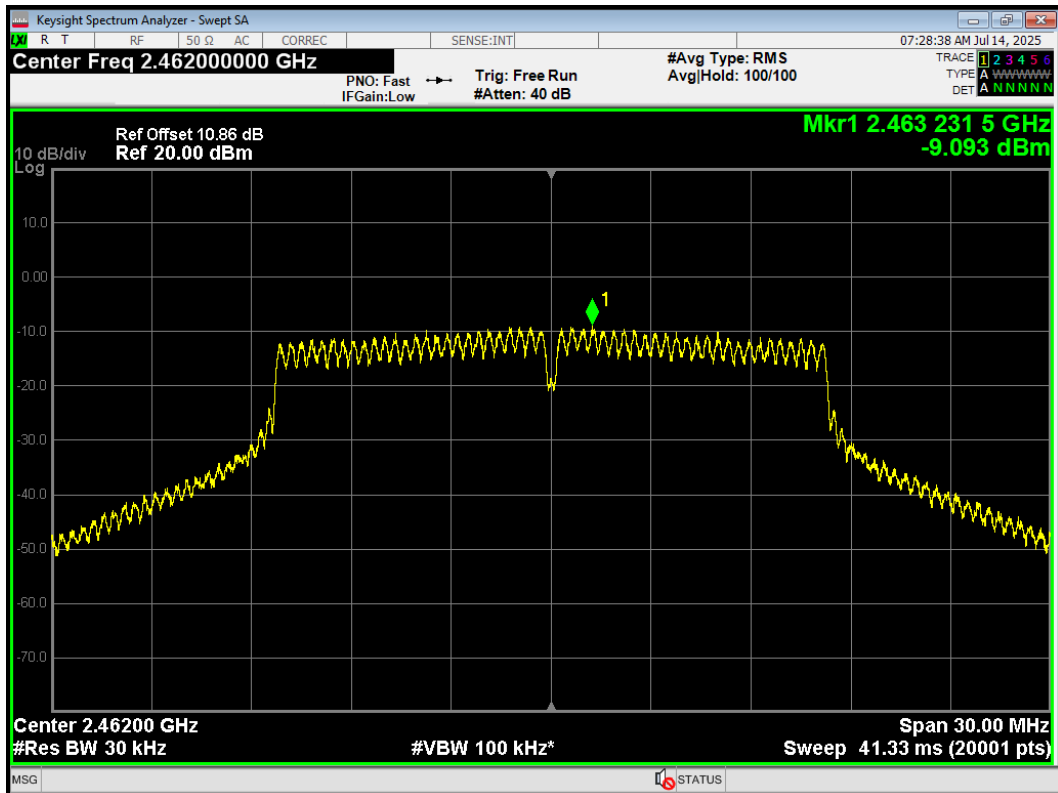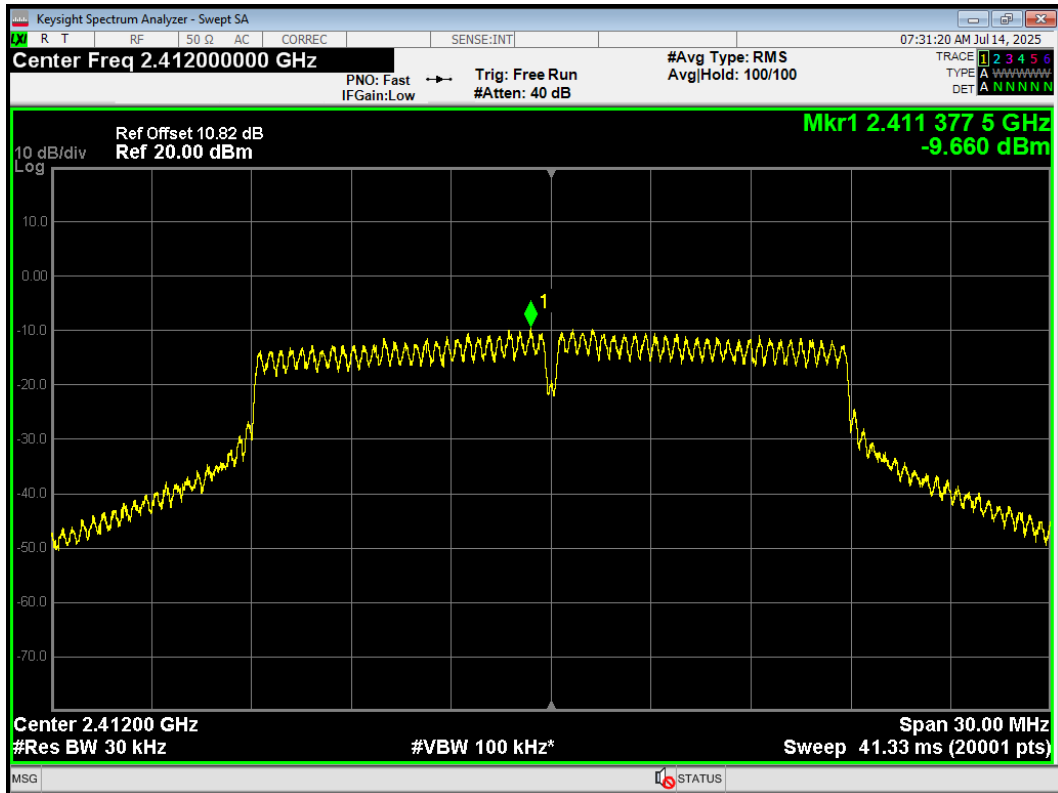PSD 802.11g 2427MHz

PSD 802.11g 2437MHz

PSD 802.11g 2452MHz

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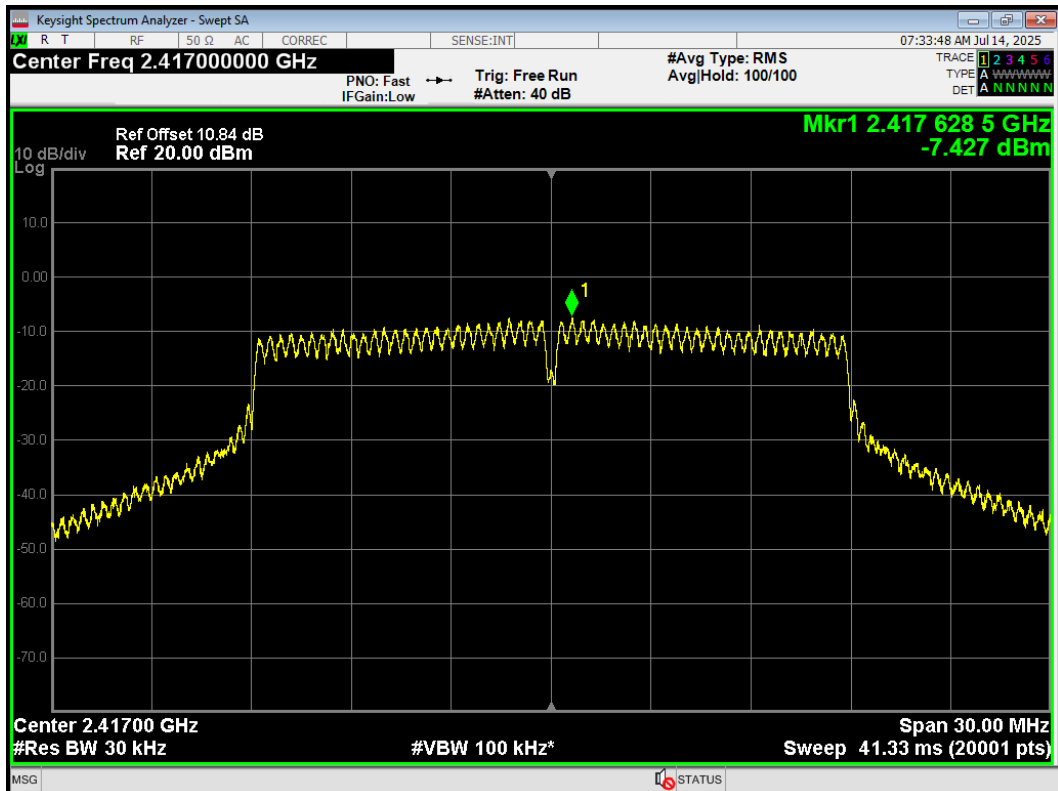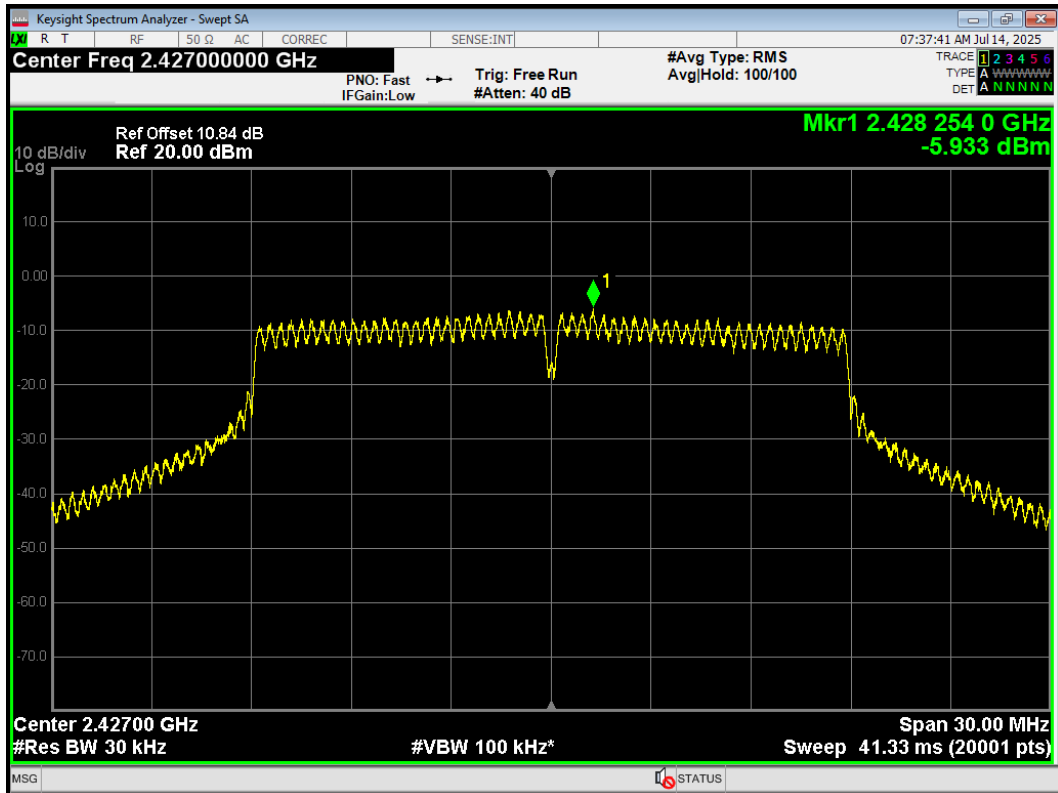
PSD 802.11g 2457MHz

PSD 802.11g 2462MHz

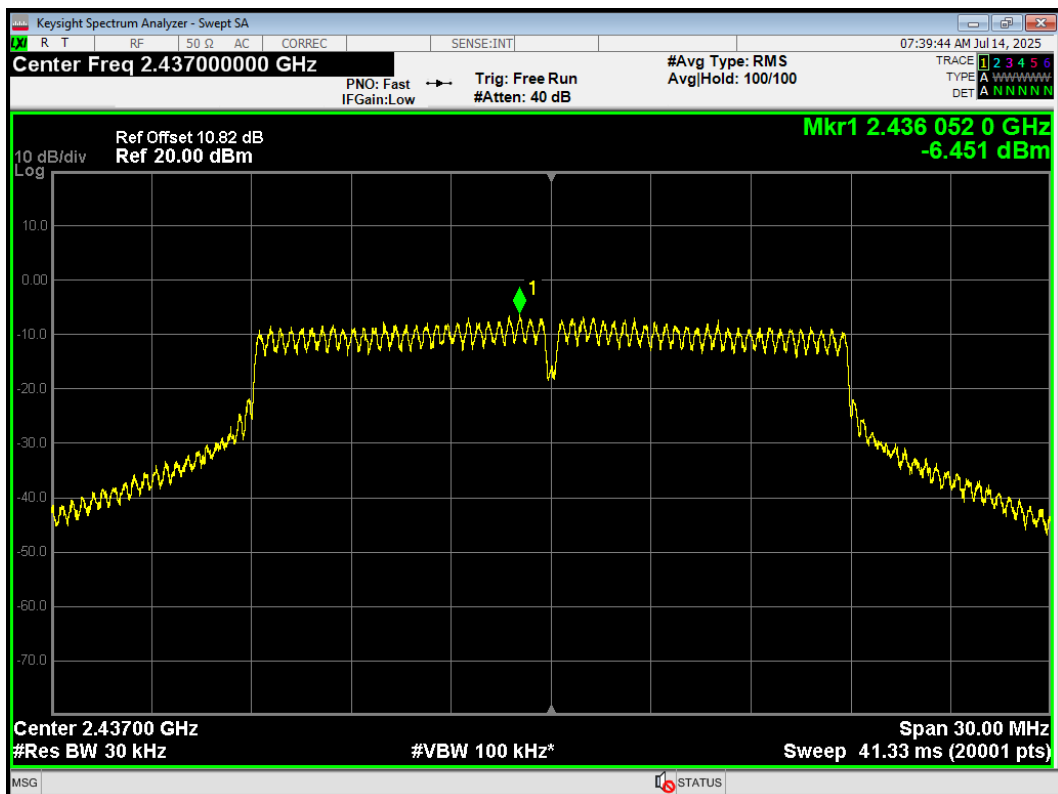PSD 802.11n(HT20) 2412MHz
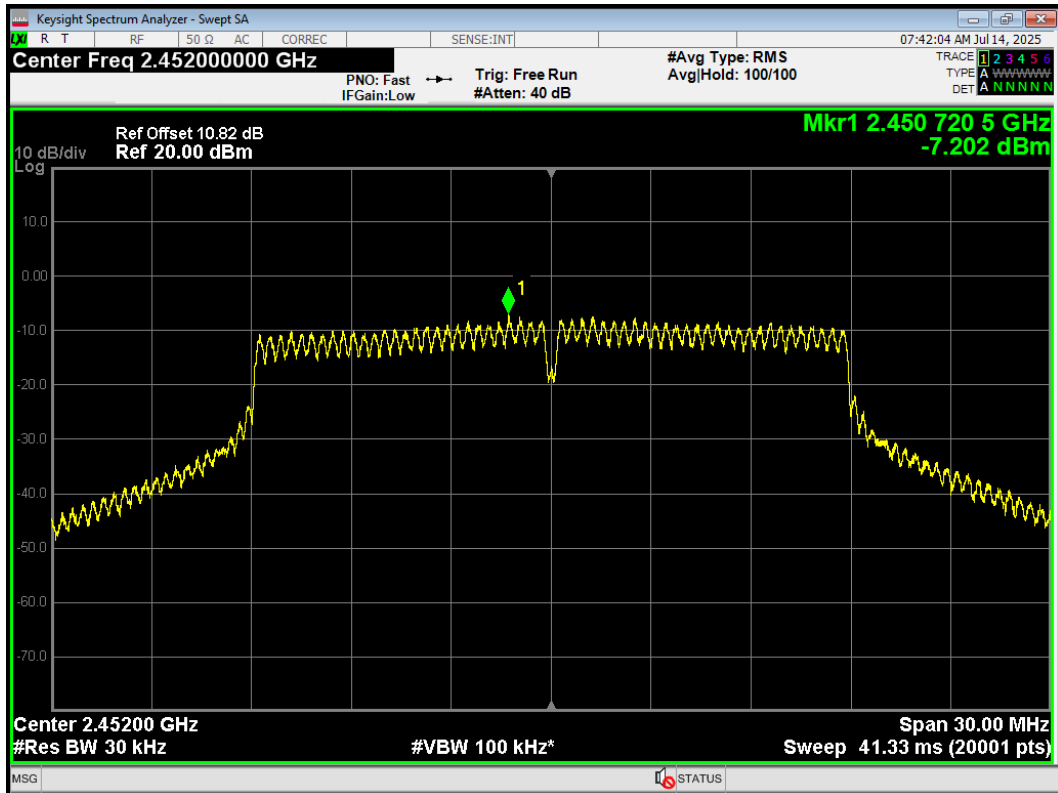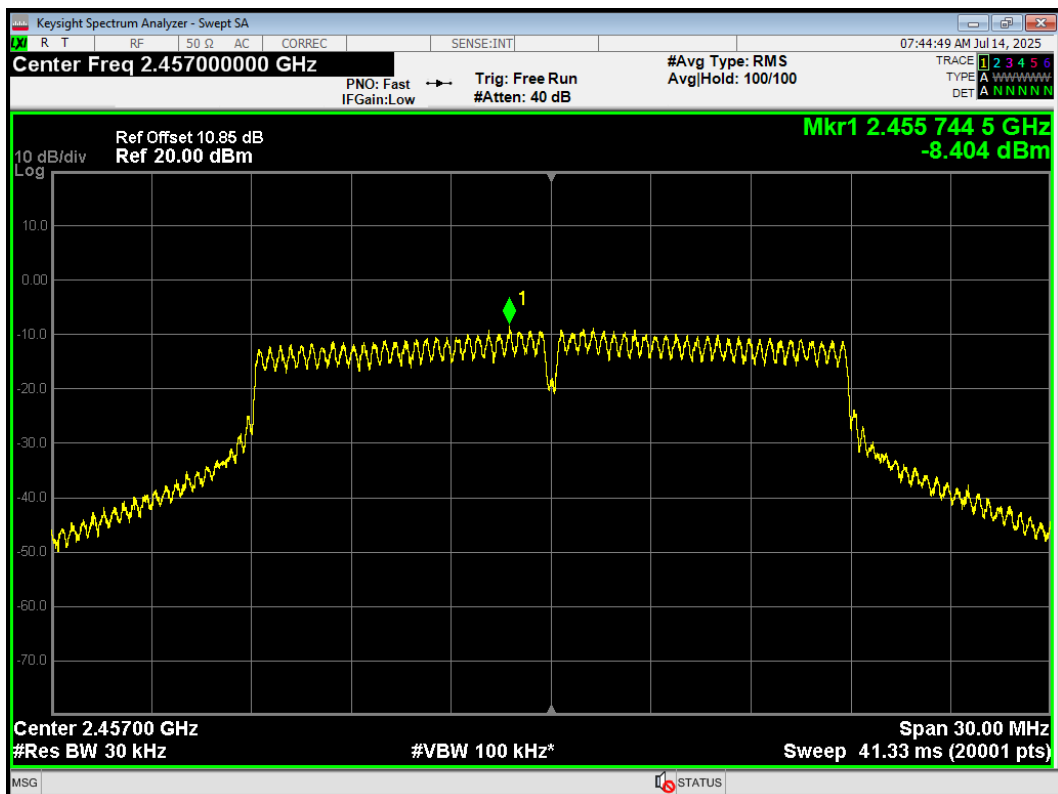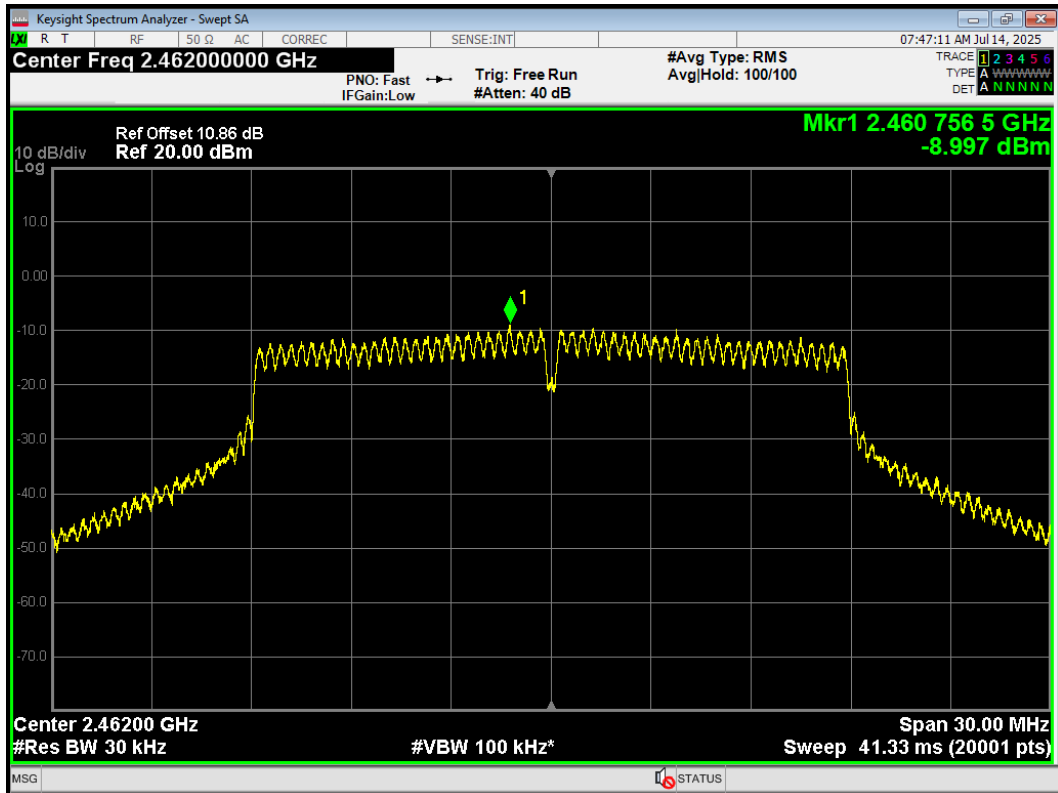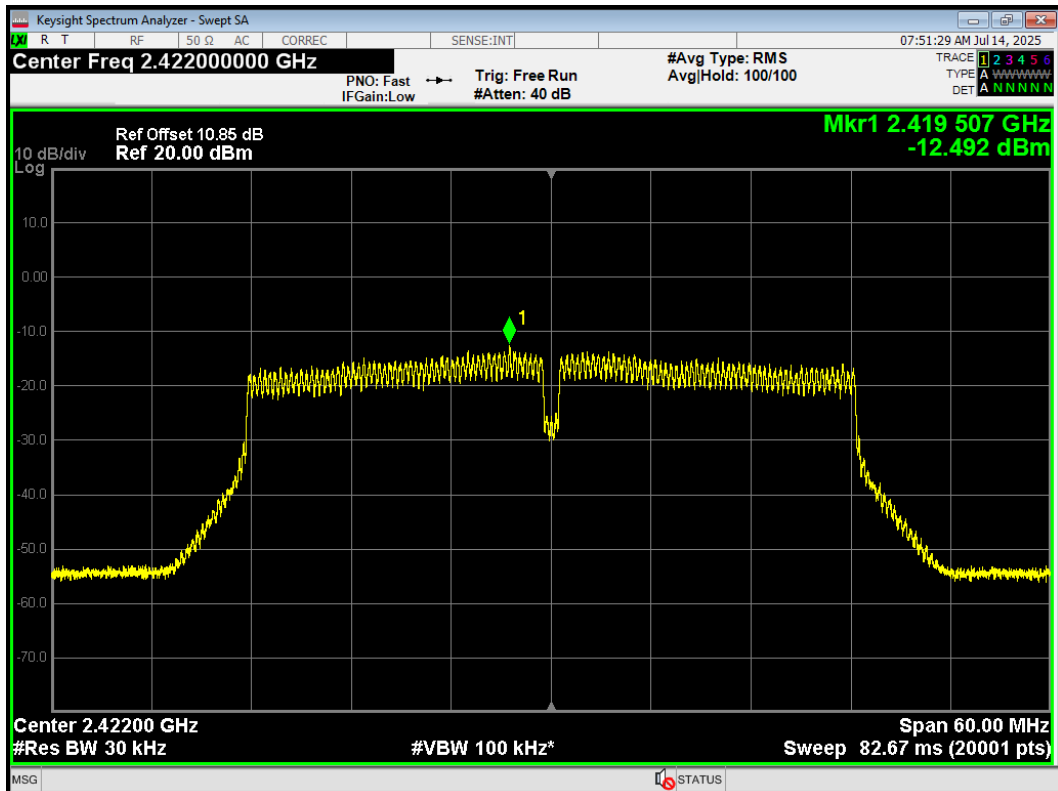

PSD 802.11n(HT20) 2417MHz

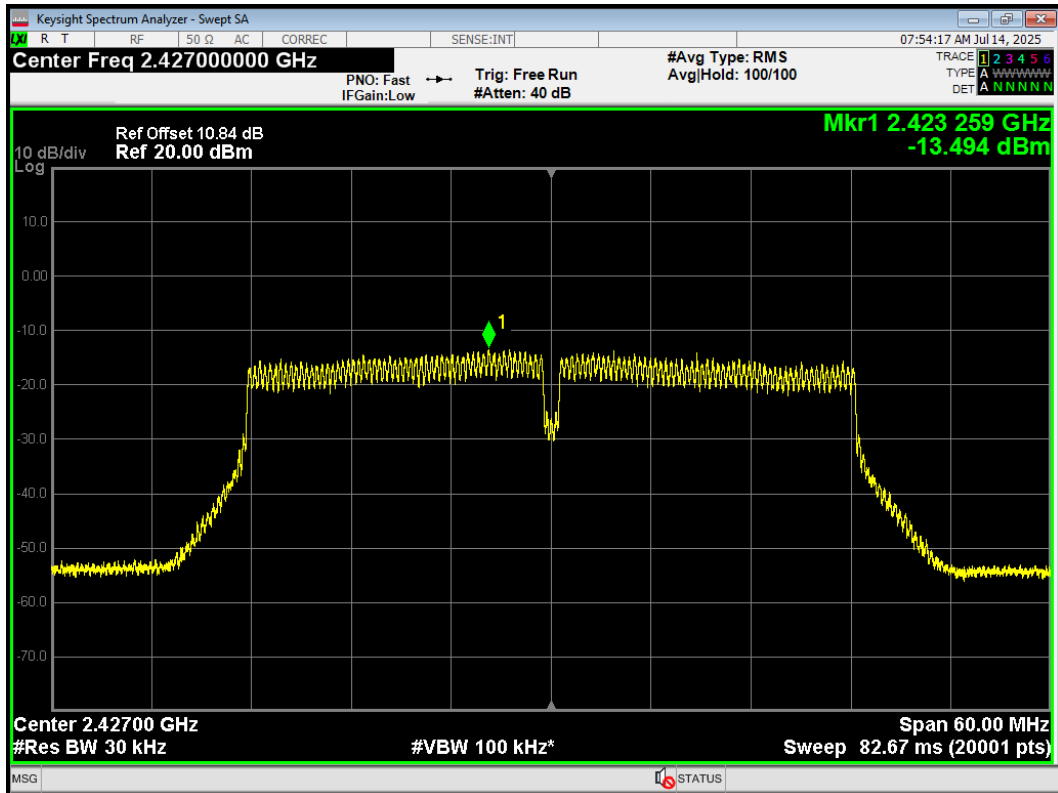*This report shall not be reproduced except in full, without the written approval of Eurofins TA Technology (Shanghai) Co., Ltd.*

PSD 802.11n(HT20) 2427MHz

PSD 802.11n(HT20) 2437MHz

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PSD 802.11n(HT20) 2452MHz

PSD 802.11n(HT20) 2457MHz

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PSD 802.11n(HT20) 2462MHz

PSD 802.11n(HT40) 2422MHz

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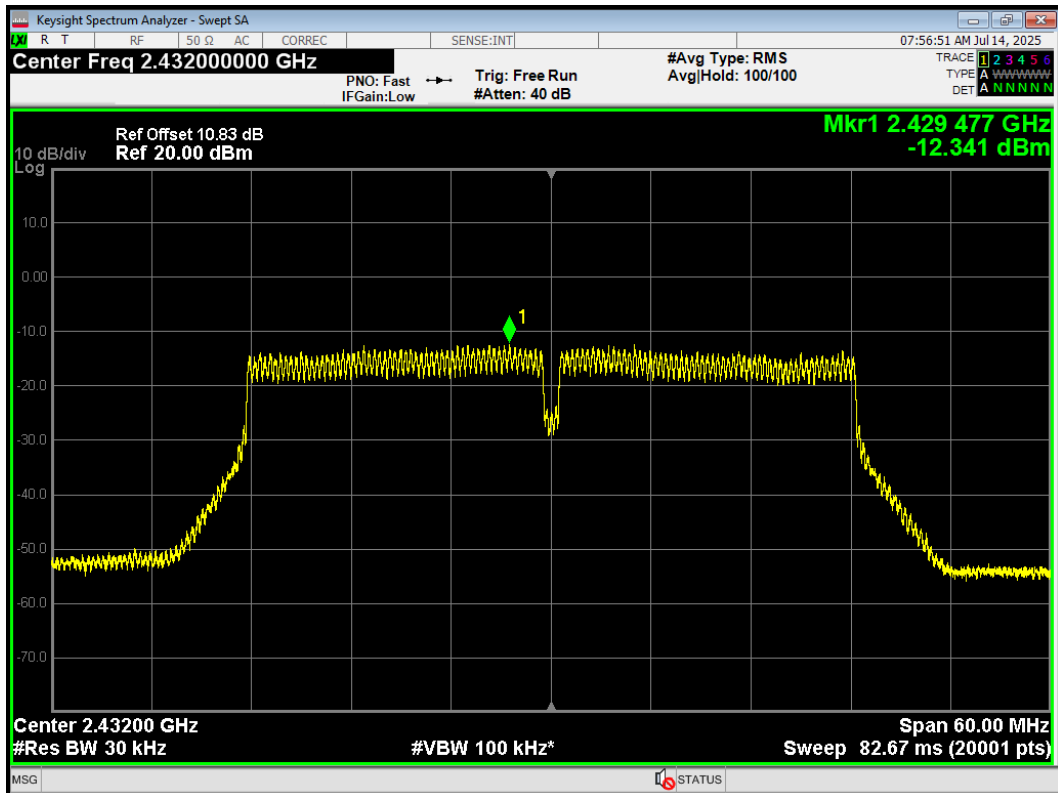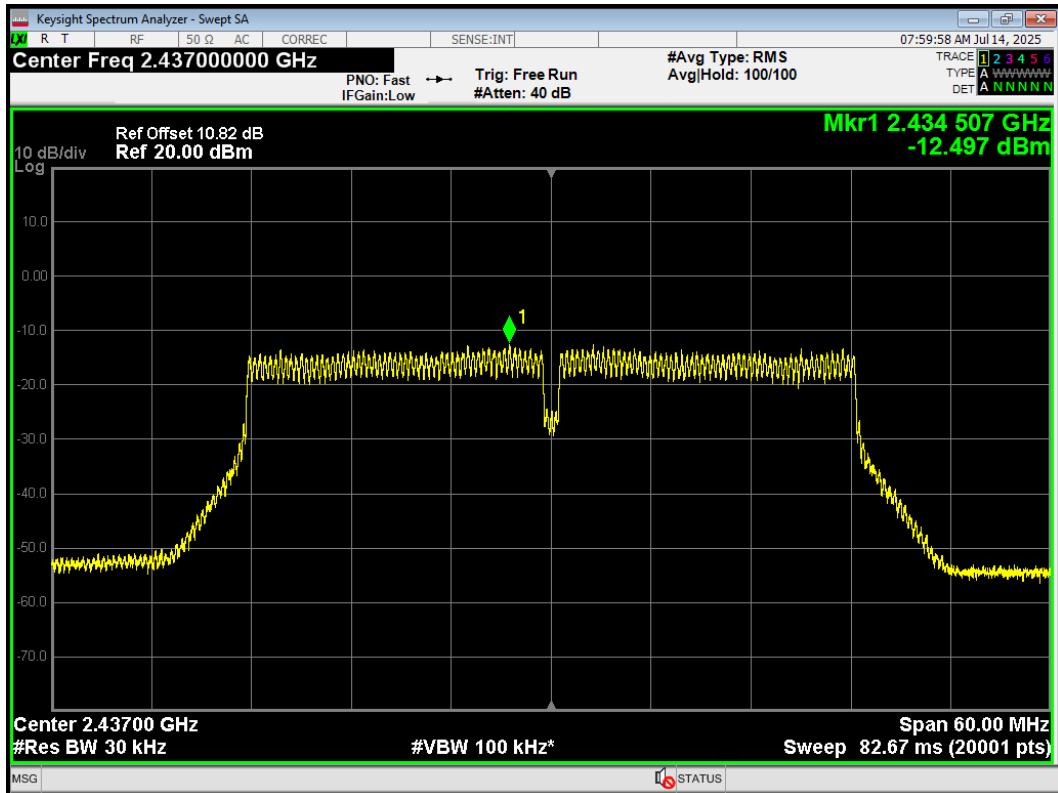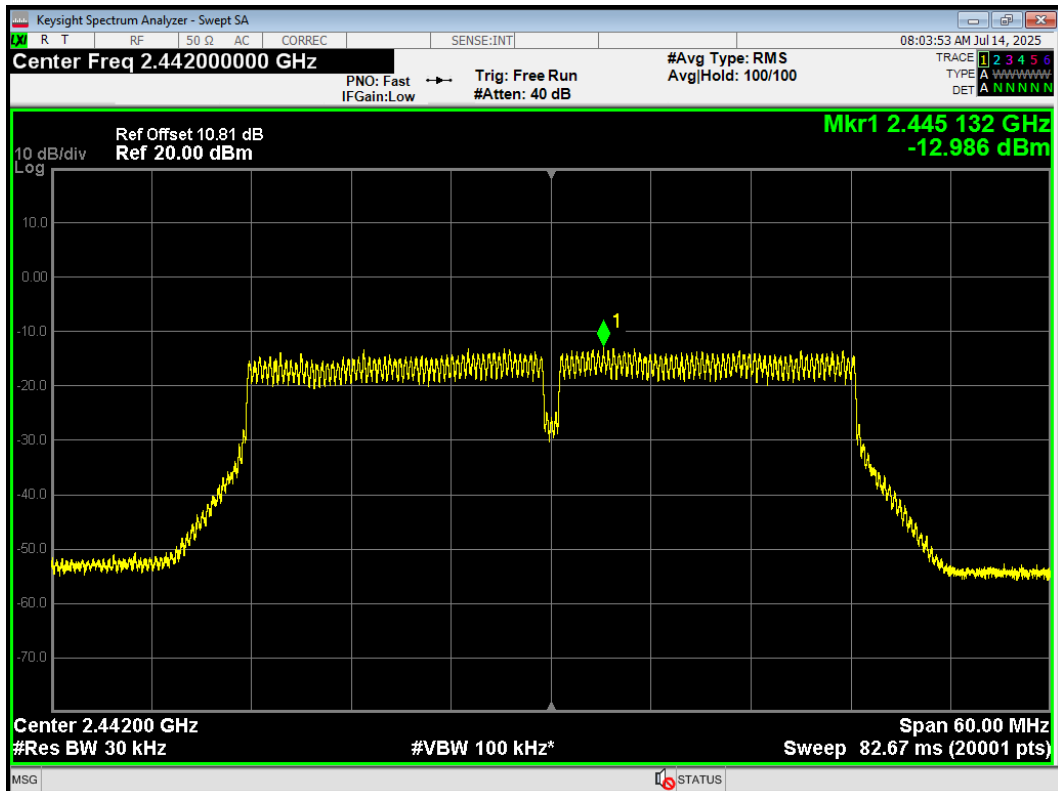
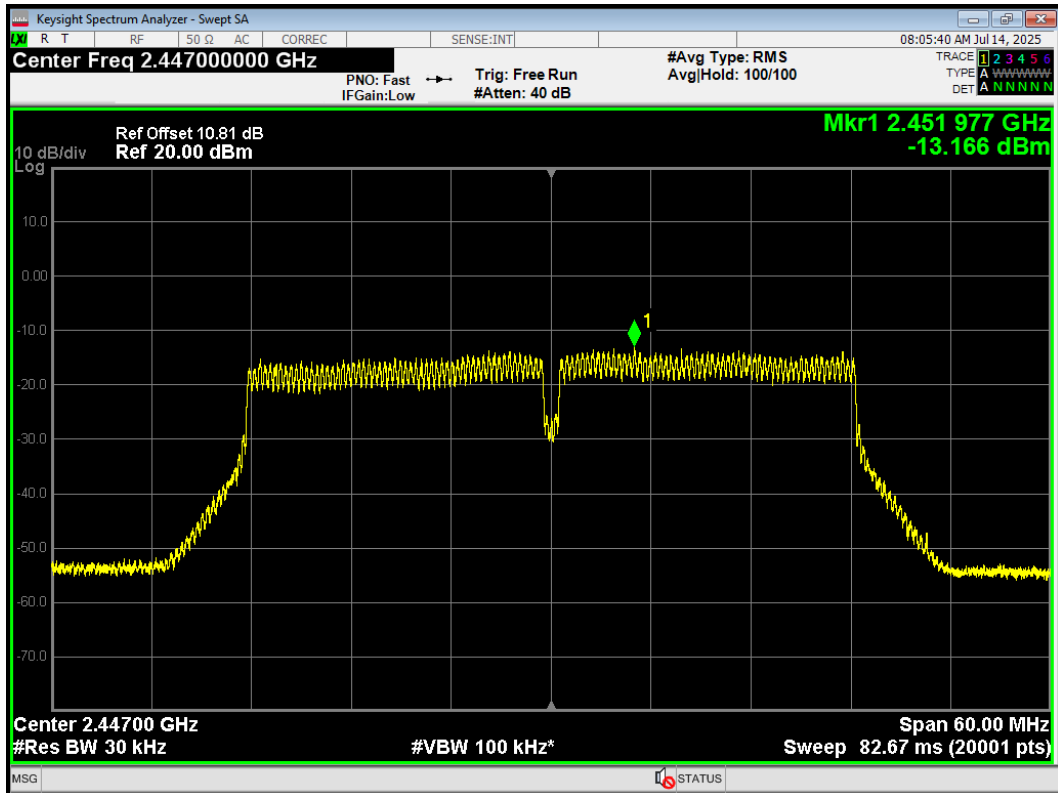PSD 802.11n(HT40) 2427MHz

PSD 802.11n(HT40) 2432MHz

PSD 802.11n(HT40) 2437MHz

PSD 802.11n(HT40) 2442MHz
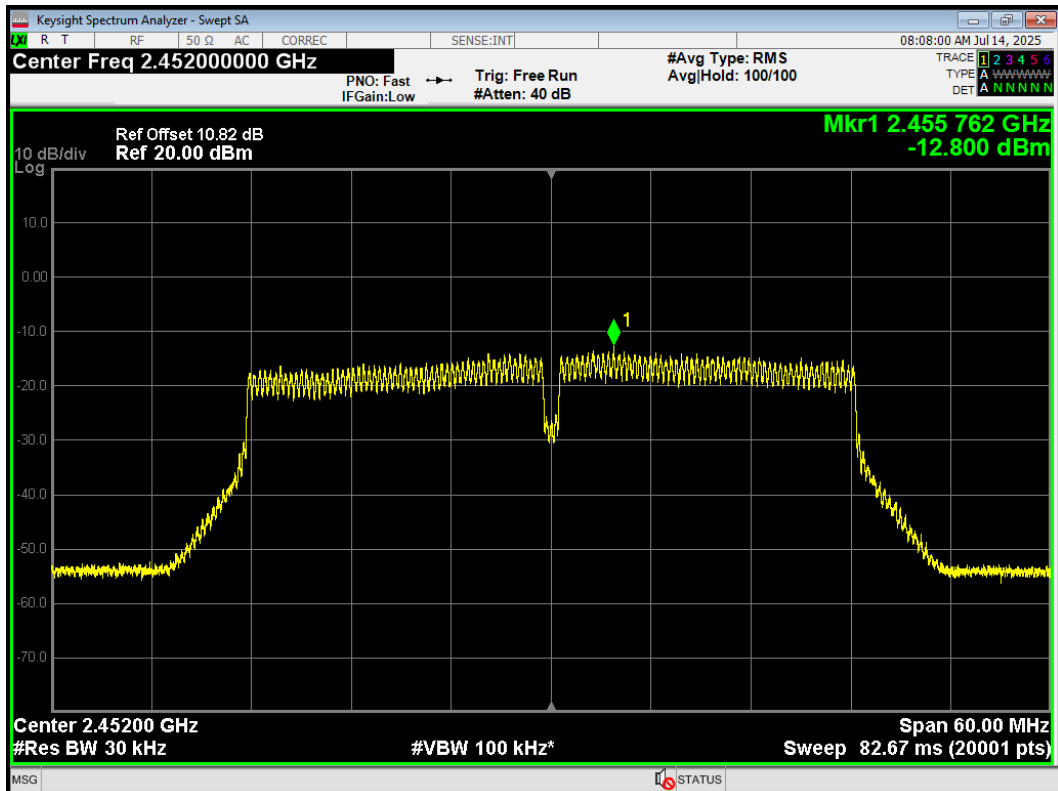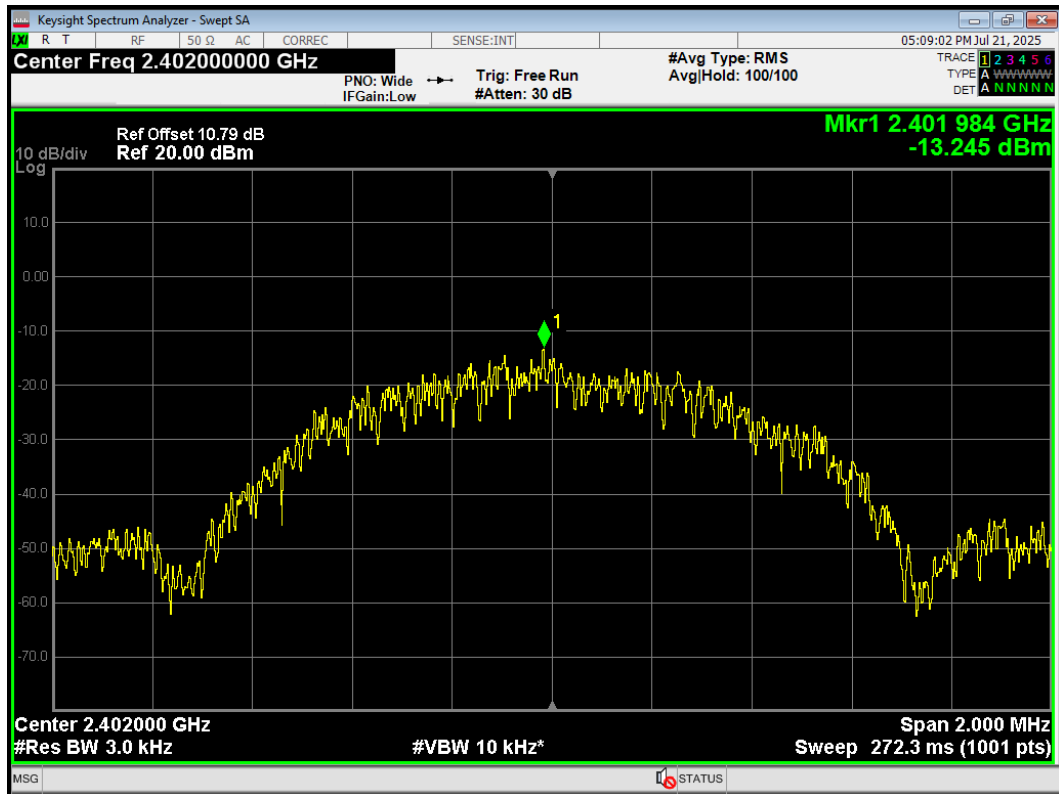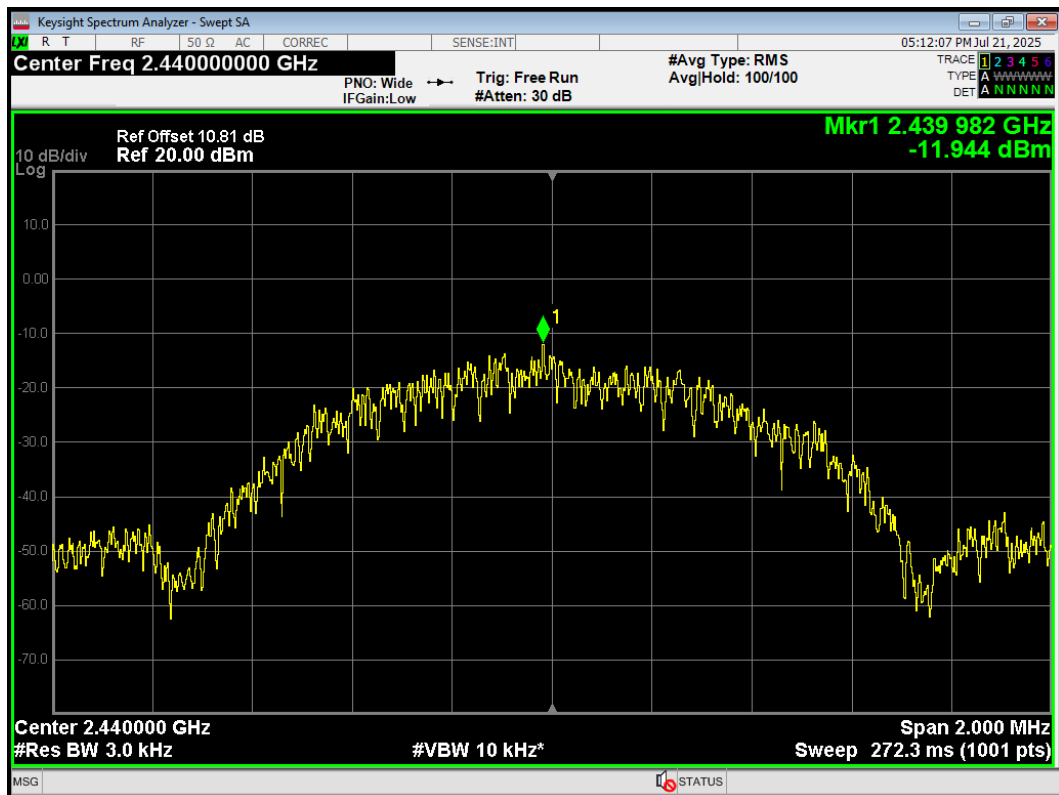
PSD 802.11n(HT40) 2447MHz

PSD 802.11n(HT40) 2452MHz

PSD BLE 2402MHz

PSD BLE 2440MHz

PSD BLE 2480MHz

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