



RF TEST REPORT

Applicant Espressif Systems (Shanghai) Co.,Ltd.

FCC ID 2AC7Z-ESPH2WR02C

Product BLE&Thread IoT Module

Brand ESPRESSIF

Model ESP32-H2-WROOM-02C

Report No. EFTA25030258-IE-02-R1V1

Issue Date June 4, 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.

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Approved by: Xu Kai

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	May 9, 2025
Rev.1	Updated information.	June 4, 2025
Note: This revised report (Report No.: EFTA25030258-IE-02-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25030258-IE-02-R1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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: April 9, 2025 ~ April 16, 2025			
Date of Sample Received: March 26, 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

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

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.
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City: Shanghai
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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	Espressif Systems (Shanghai) Co.,Ltd.
Applicant address	Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China
Manufacturer	Espressif Systems (Shanghai) Co.,Ltd.
Manufacturer address	Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China

2.2. General Information

EUT Description	
Model	ESP32-H2-WROOM-02C
Lab internal SN	EFTA25030258-IE-01/S01
HW Version	V1.0
SW Version	V1.1.3.4
Power Supply	External power supply
Antenna Type	PCB Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	3.26 dBi
Additional Beamforming Gain	NA
Operating Frequency Range(s)	Bluetooth LE V5.3: 2402 ~2480 MHz
Modulation Type	Bluetooth LE: GFSK Zigbee: O-QPSK
Max. Output Power	Bluetooth LE: 19.11 dBm Zigbee: 19.22 dBm
Operating voltage range	3.0 Vdc to 3.6 Vdc
State voltage	3.3 Vdc
Auxiliary Test Equipment	
PC	Manufacturer: DELL Model: Latitude 3490 (SN: FMKRBV2)
Mother board	Manufacturer: Espressif Systems (Shanghai) Co.,Ltd. Model: /

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.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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; 2Mbps
Bluetooth (Low Energy) (S=2)	500kbps
Bluetooth (Low Energy) (S=8)	125kbps

Mode	Channel	Frequency
Zigbee	11	2405MHz
	12	2410MHz
	13	2415MHz
	14	2420MHz
	15	2425MHz
	16	2430MHz
	17	2435MHz
	18	2440MHz
	19	2445MHz
	20	2450MHz
	21	2455MHz
	22	2460MHz
	23	2465MHz
	24	2470MHz
	25	2475MHz
	26	2480MHz

5. Test Case Results

5.1. Maximum output power

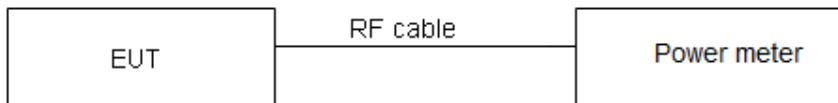
Ambient Condition

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	$\leq 1\text{W}$ (30dBm)
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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

Power Index				
Bluetooth (Low Energy)				
Channel	1M	2M	S=2	S=8
CH0	15	15	15	13
CH19	15	15	15	13
CH39	15	15	15	13

Power Index	
Channel	Zigbee
CH11	15
CH18	15
CH26	15

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
Bluetooth LE (1M)	1.000	0.000
Bluetooth LE (2M)	1.000	0.000
Bluetooth LE (S=2)	1.000	0.000
Bluetooth LE (S=8)	1.000	0.000
Zigbee	1.000	0.000

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
Bluetooth (Low Energy) (1M)	2402/CH0	18.77	18.77	30	PASS
	2440/CH19	18.79	18.79	30	PASS
	2480/CH39	17.67	17.67	30	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	19.11	19.11	30	PASS
	2440/CH19	18.80	18.80	30	PASS
	2480/CH39	17.67	17.67	30	PASS
Bluetooth (Low Energy) (S=2)	2402/CH0	19.10	19.10	30	PASS
	2440/CH19	18.74	18.74	30	PASS
	2480/CH39	17.61	17.61	30	PASS
Bluetooth (Low Energy) (S=8)	2402/CH0	14.88	14.88	30	PASS
	2440/CH19	14.58	14.58	30	PASS
	2480/CH39	13.51	13.51	30	PASS
Zigbee	2405/CH11	19.22	19.22	30	PASS
	2440/CH18	18.79	18.79	30	PASS
	2480/CH26	17.86	17.86	30	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

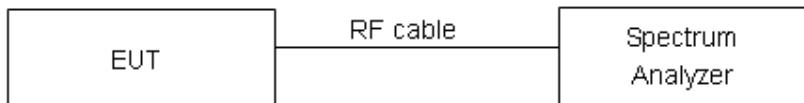
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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
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Measurement Uncertainty

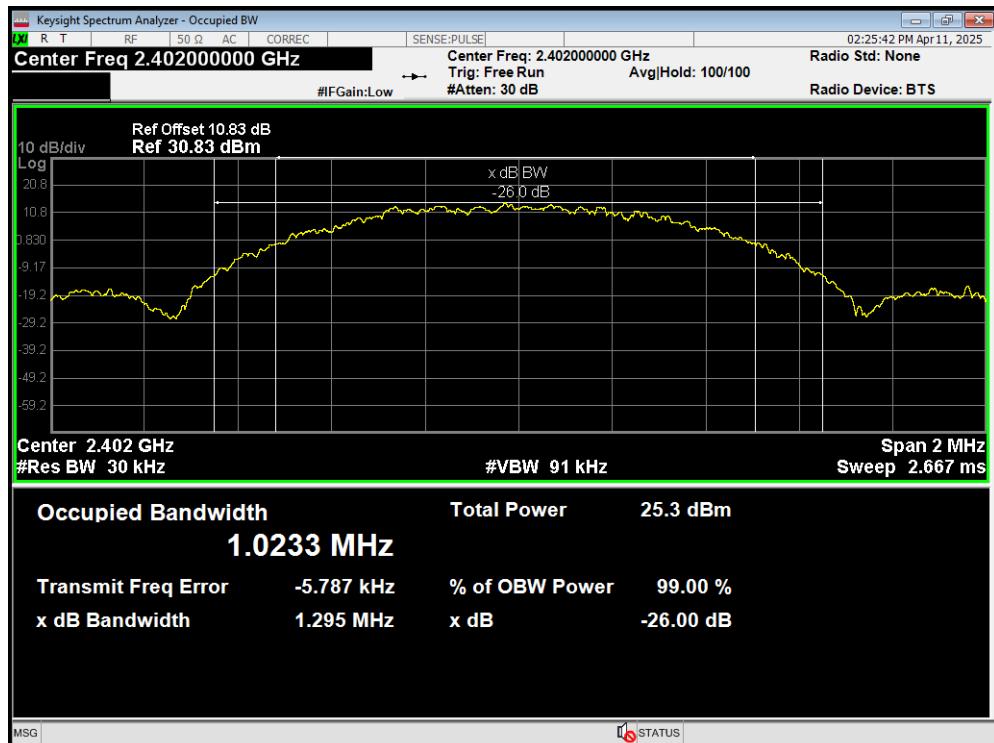
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

Test Results:

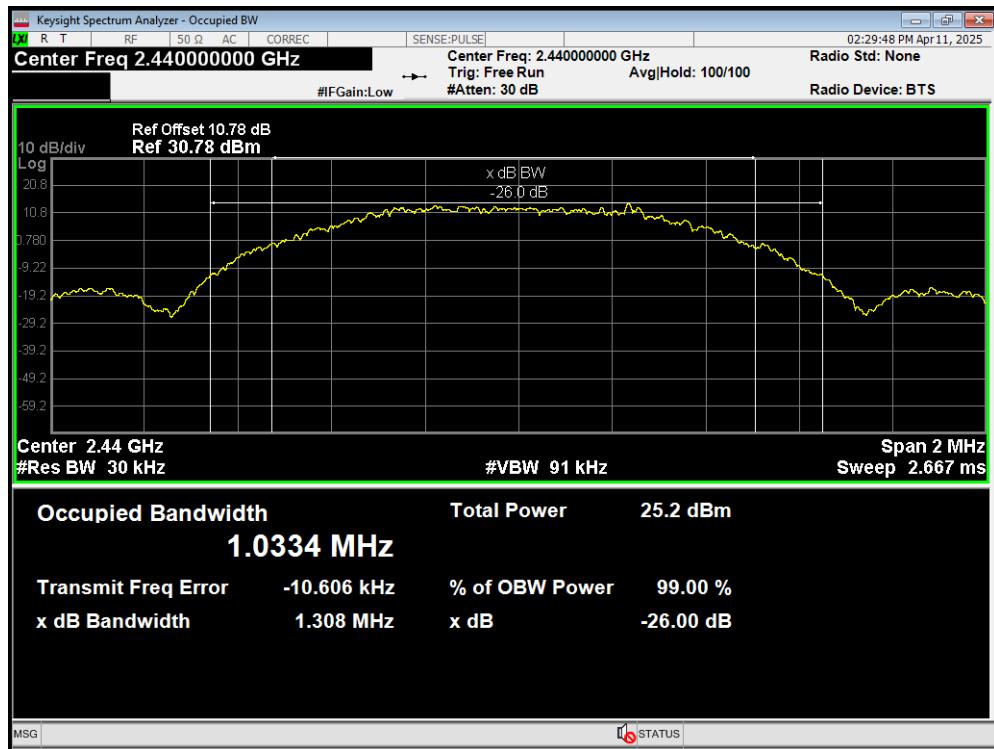
Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
Bluetooth (Low Energy) (1M)	2402	1.023	0.665	500	PASS
	2440	1.033	0.700	500	PASS
	2480	1.031	0.673	500	PASS
Bluetooth (Low Energy) (2M)	2402	2.030	1.316	500	PASS
	2440	2.046	1.165	500	PASS
	2480	2.051	1.209	500	PASS
Bluetooth (Low Energy) (S=2)	2402	1.019	0.670	500	PASS
	2440	1.016	0.669	500	PASS
	2480	1.022	0.700	500	PASS
Bluetooth (Low Energy) (S=8)	2402	1.045	0.676	500	PASS
	2440	1.055	0.676	500	PASS
	2480	1.061	0.676	500	PASS
Zigbee	2405	1.966	1.182	500	PASS
	2440	1.970	1.184	500	PASS
	2480	1.983	1.360	500	PASS

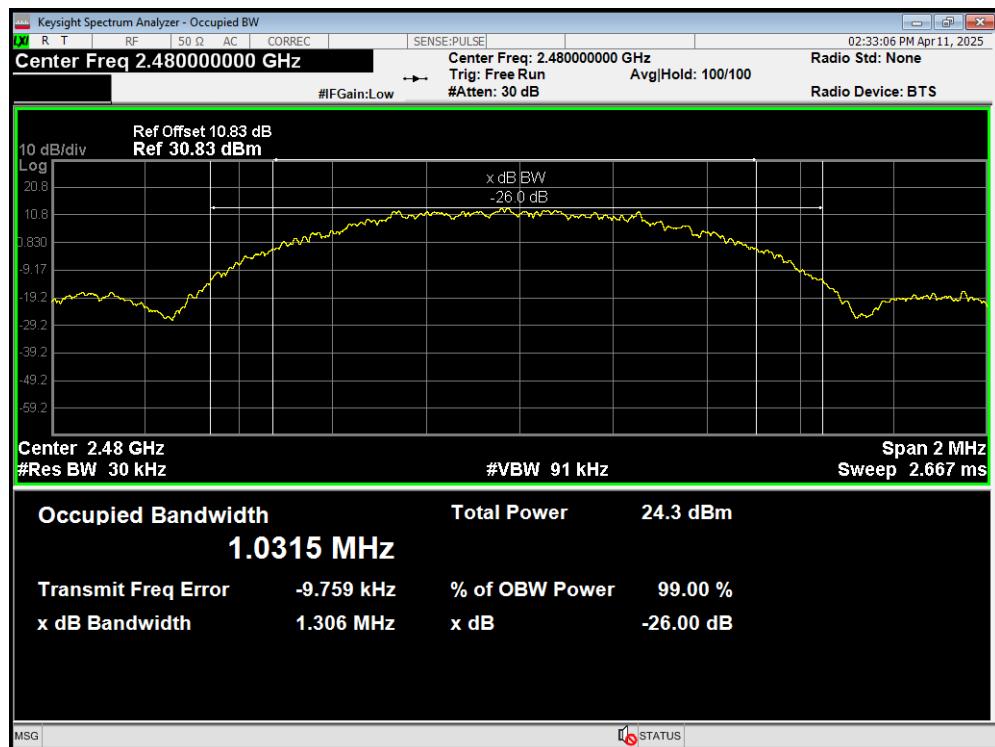
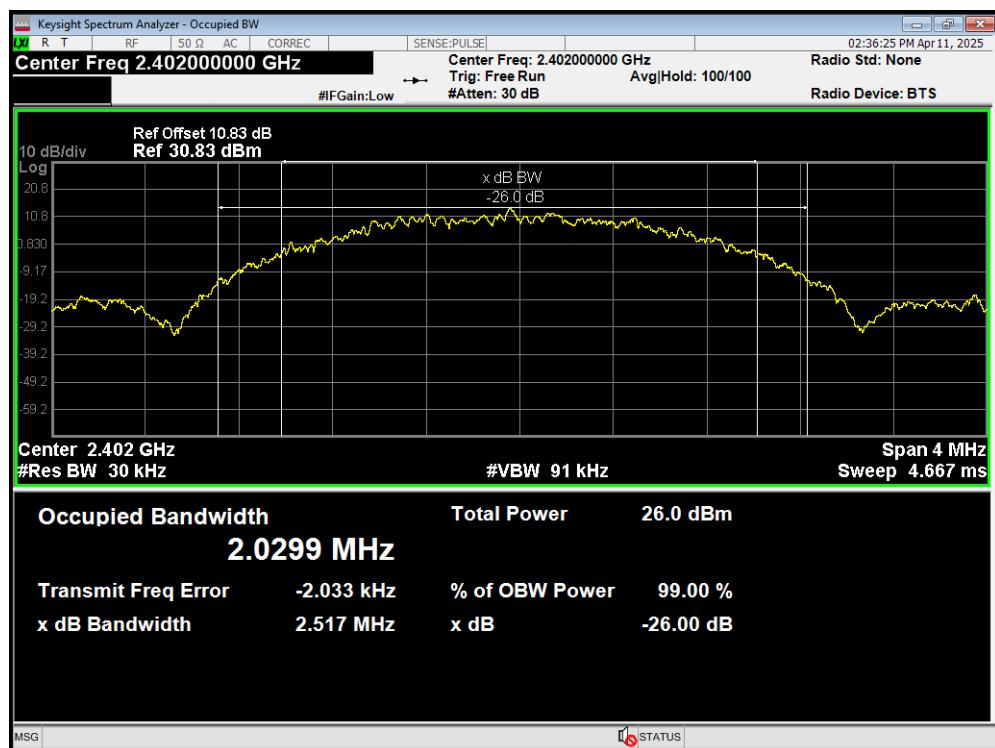
99%bandwidth

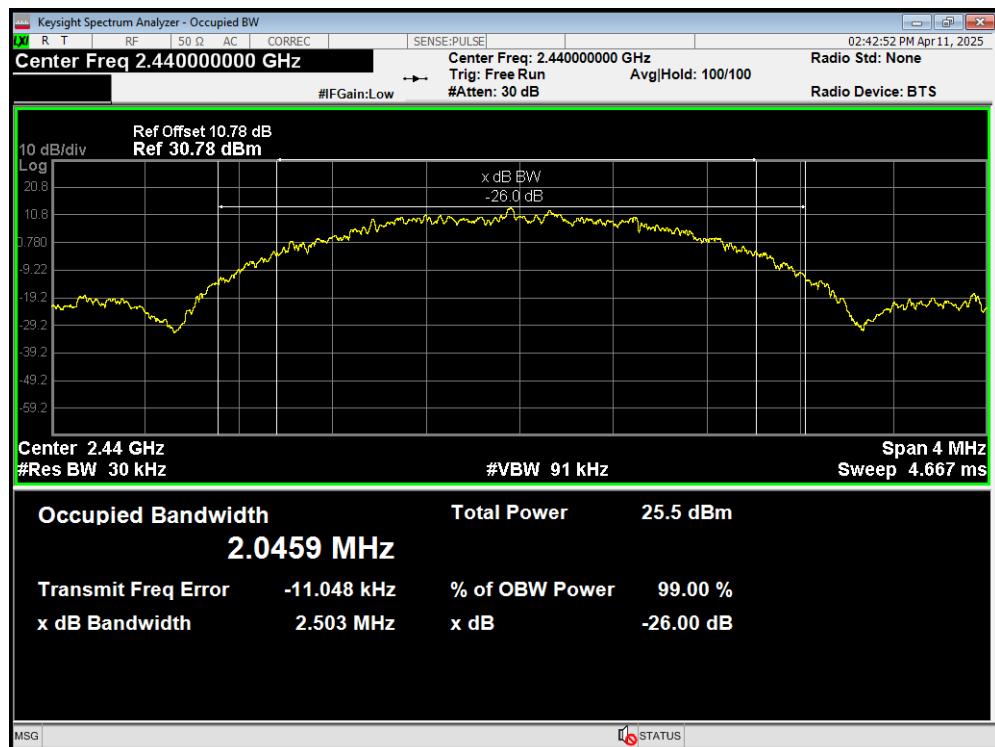
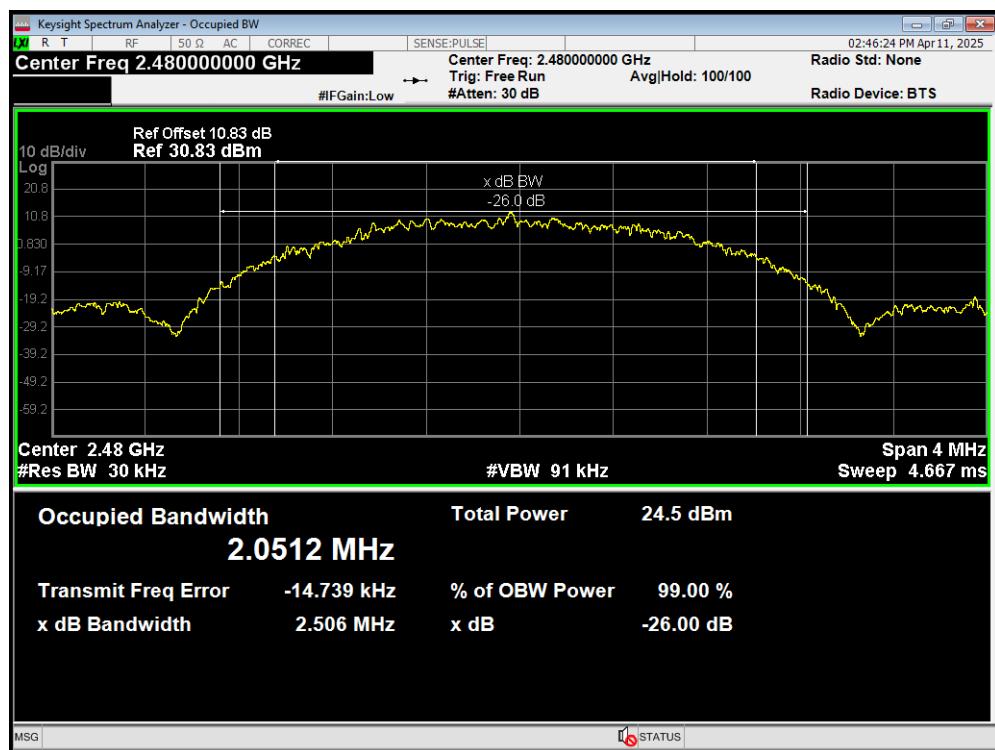
OBW Bluetooth LE(1M) 2402MHz

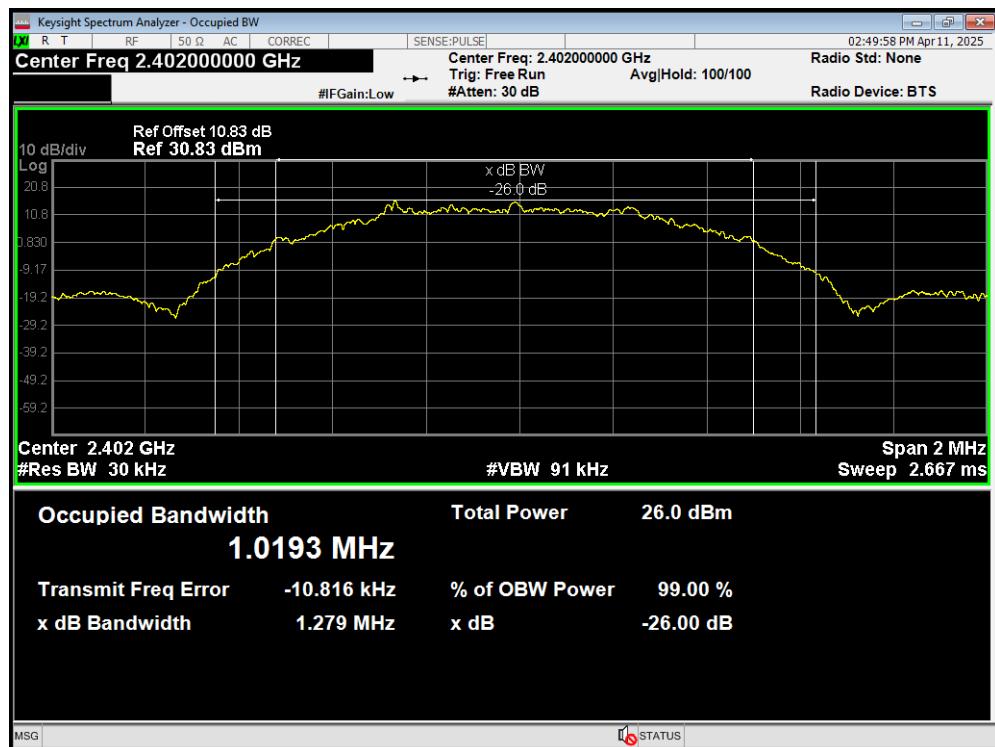
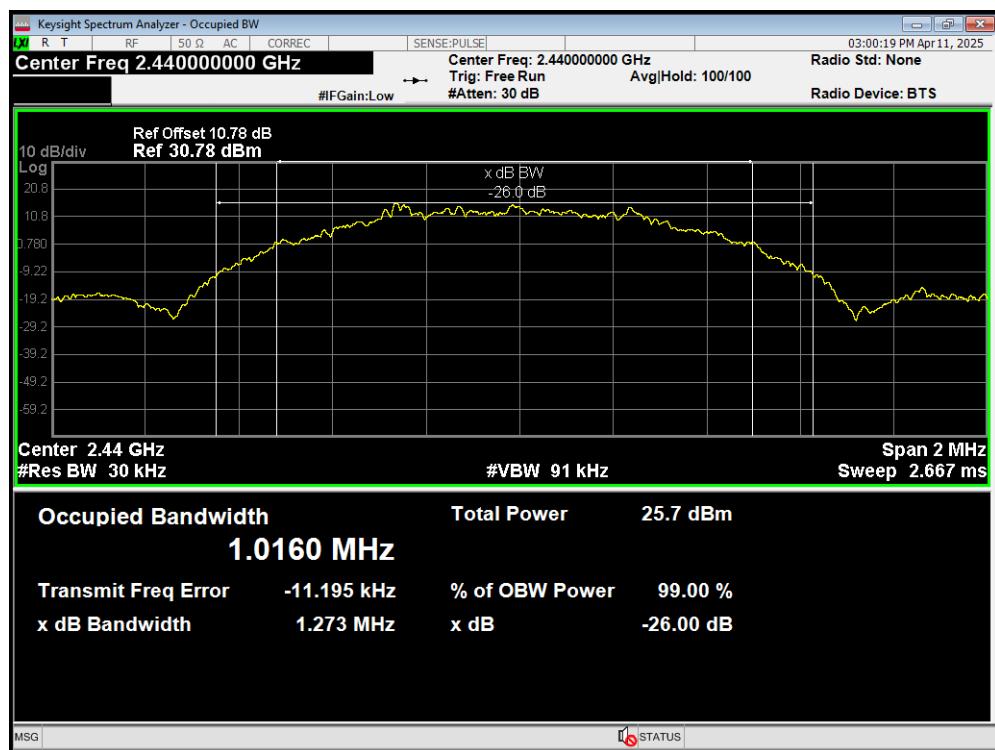


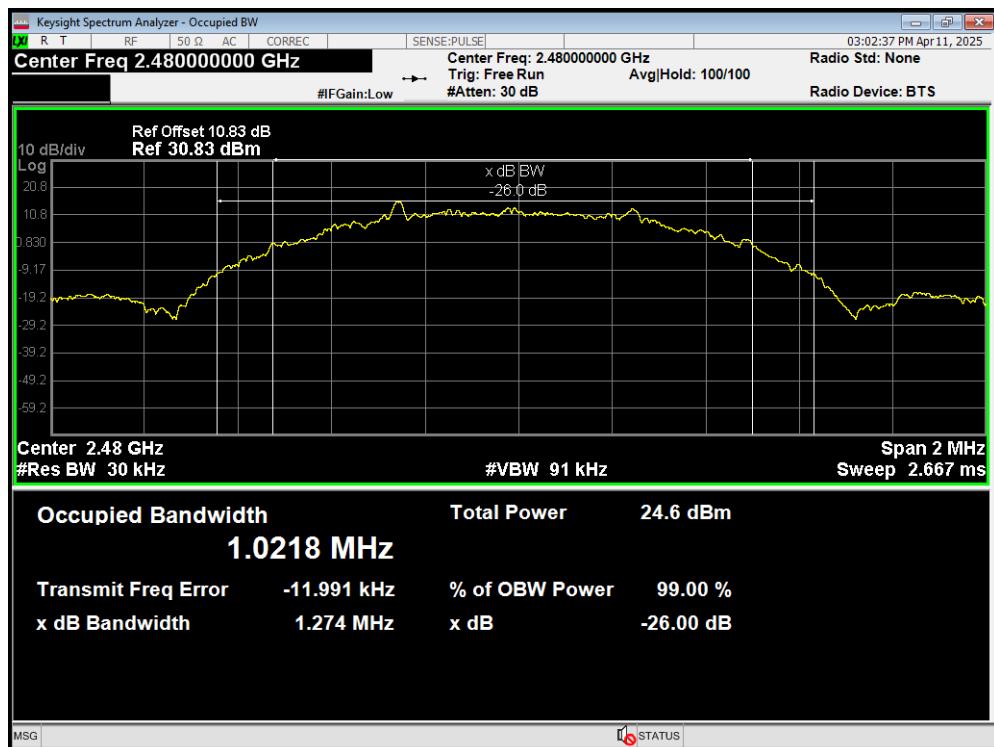
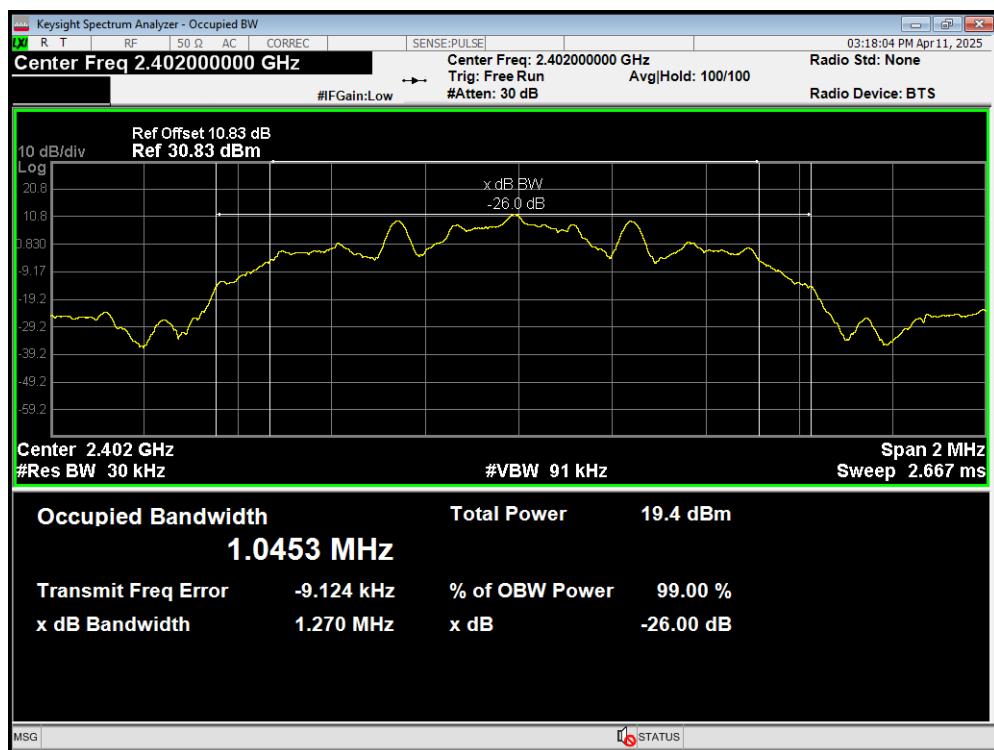
OBW Bluetooth LE(1M) 2440MHz

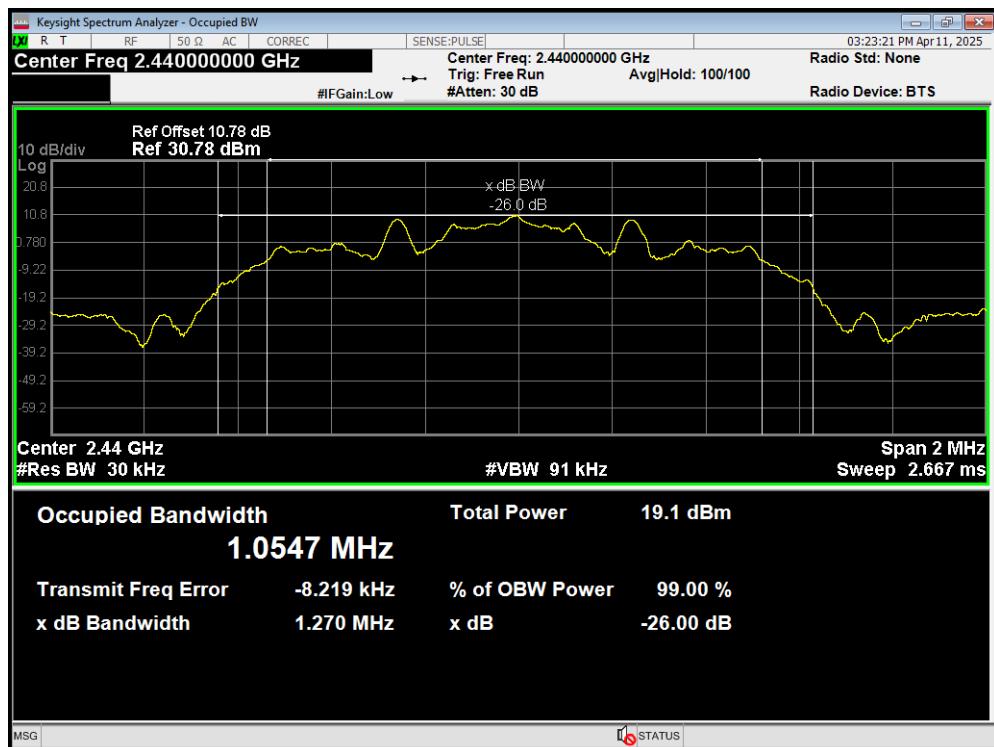
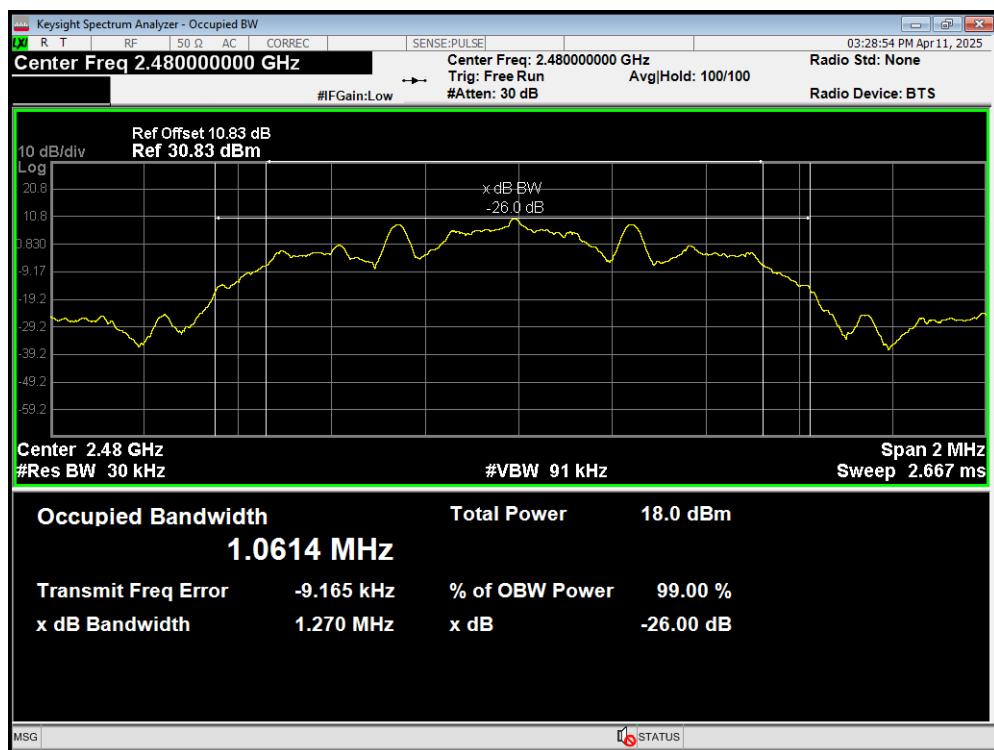


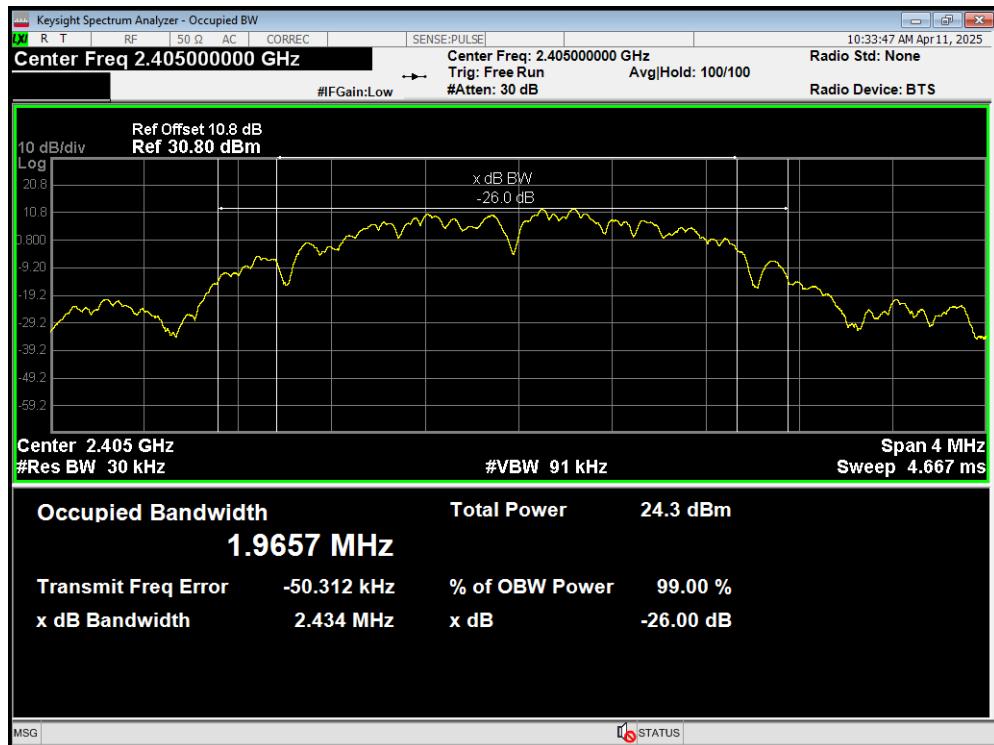
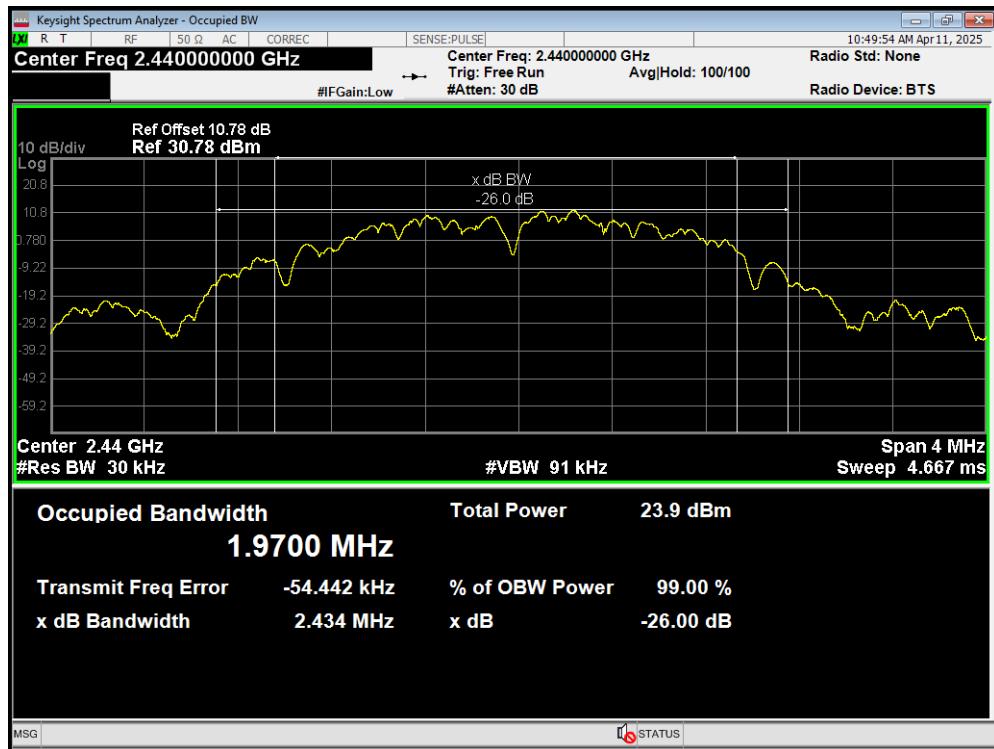
OBW Bluetooth LE(1M) 2480MHz

OBW Bluetooth LE(2M) 2402MHz


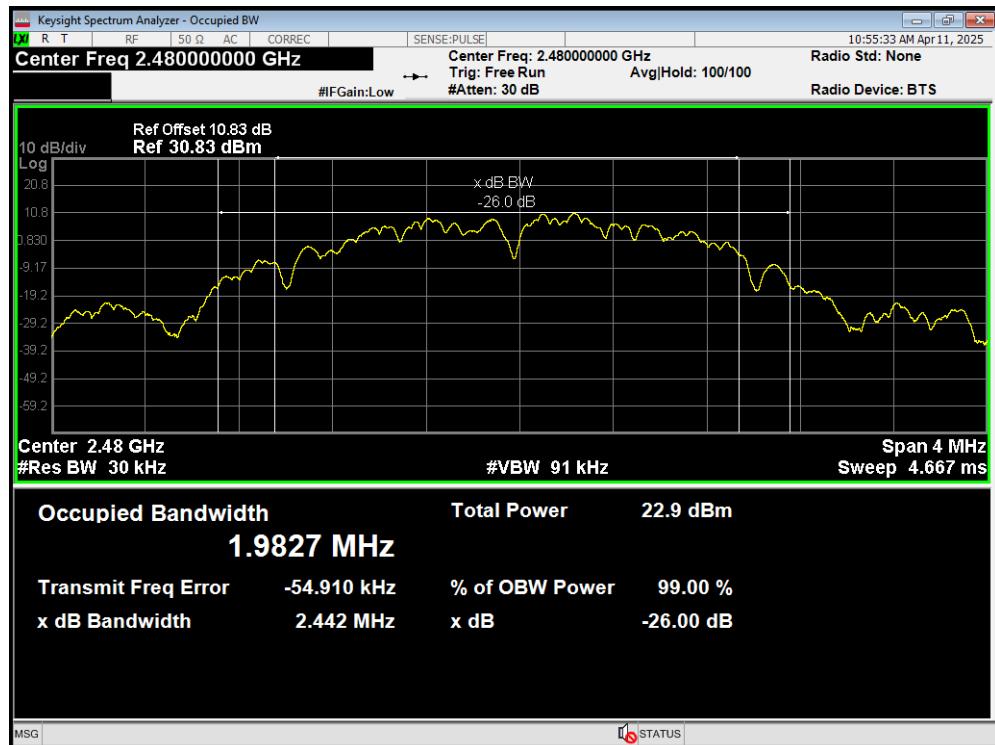
OBW Bluetooth LE(2M) 2440MHz

OBW Bluetooth LE(2M) 2480MHz


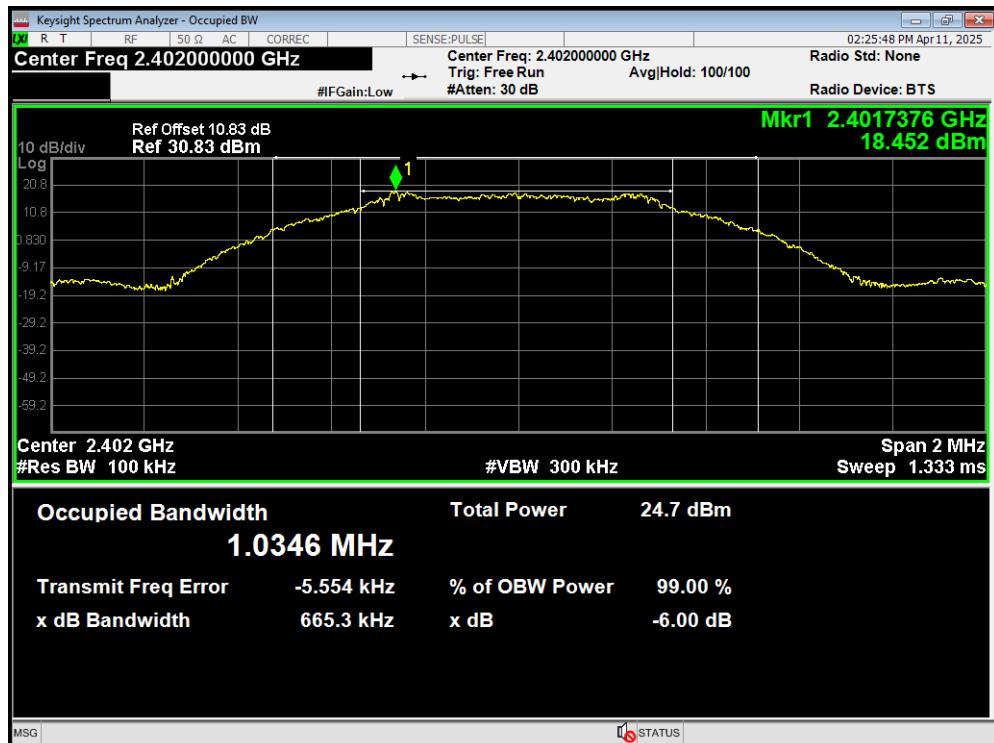
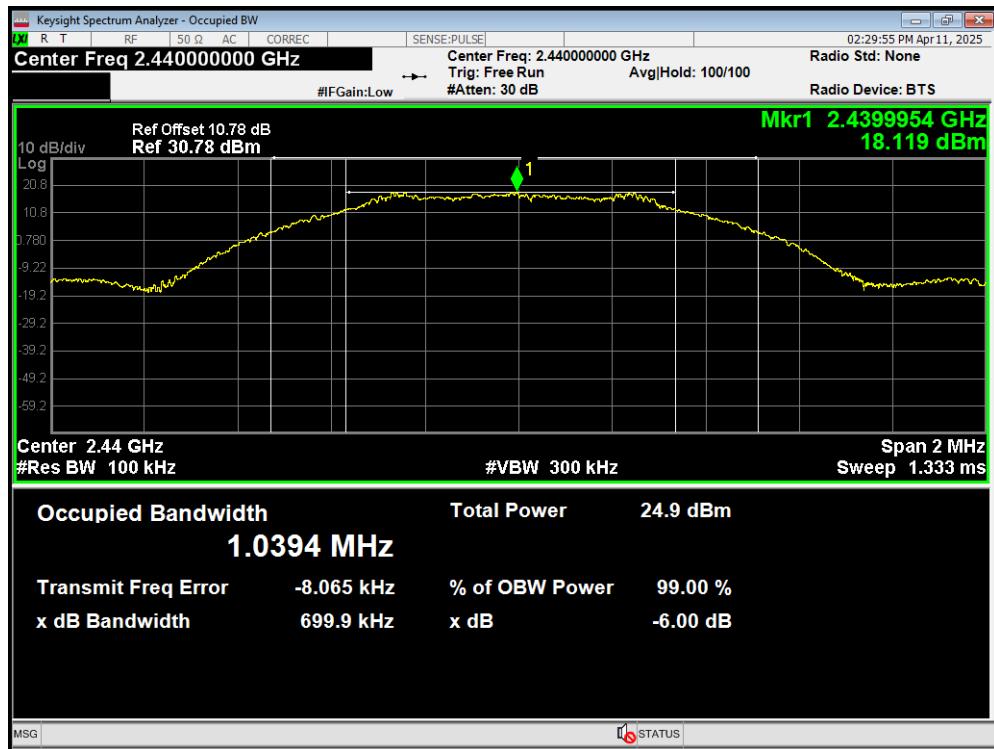
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OBW Bluetooth LE(S=2) 2440MHz


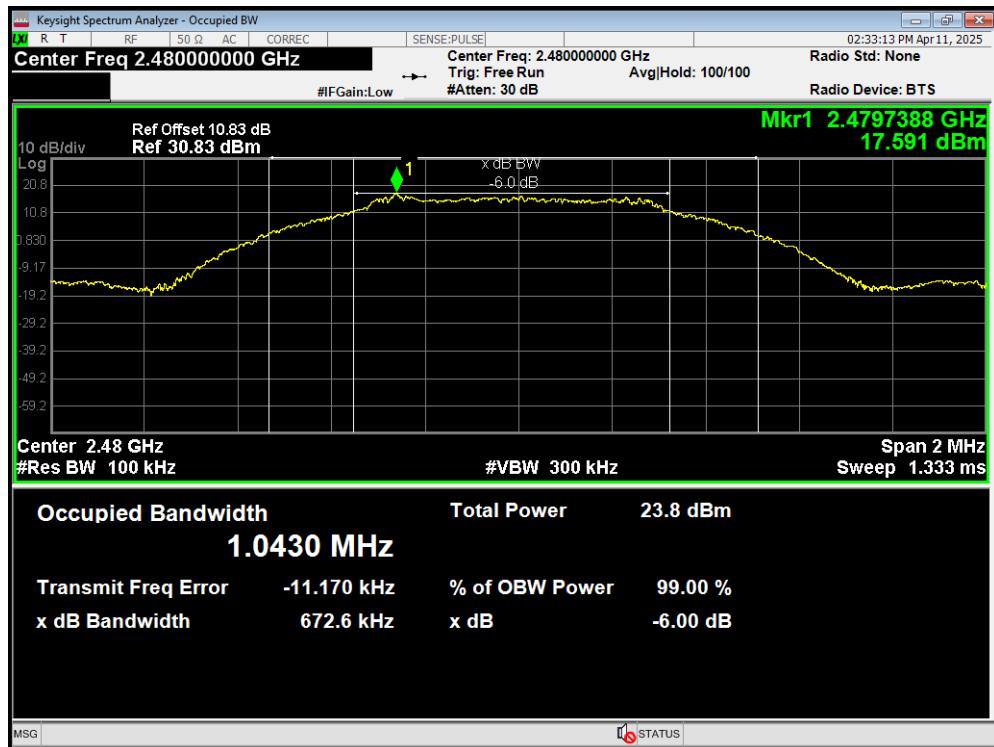
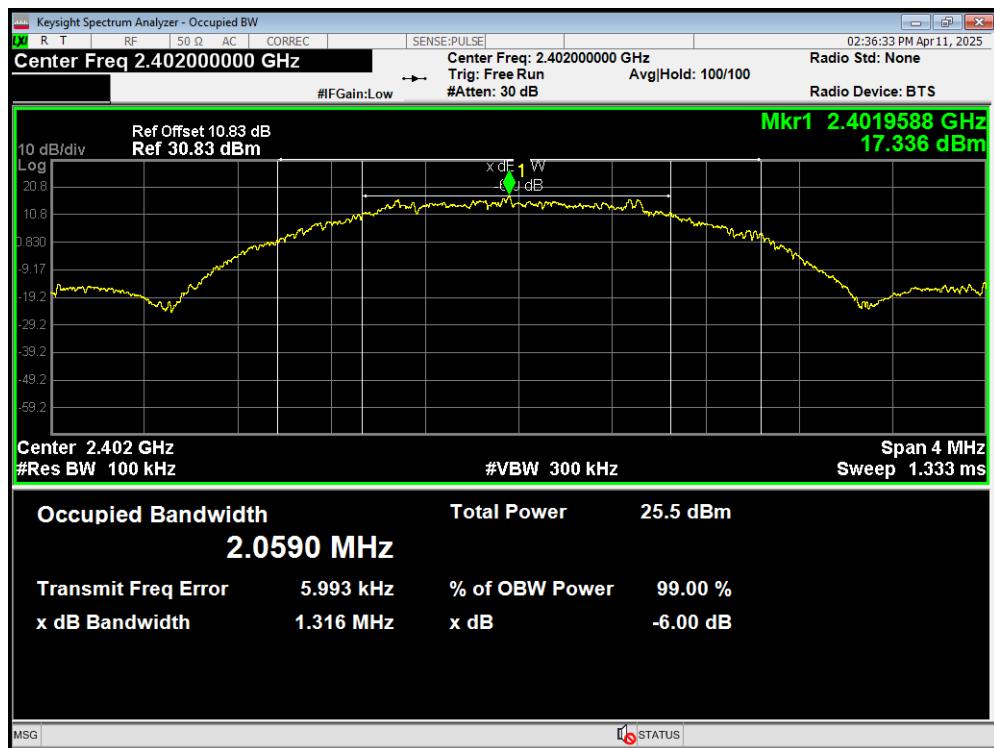
OBW Bluetooth LE(S=2) 2480MHz

OBW Bluetooth LE(S=8) 2402MHz


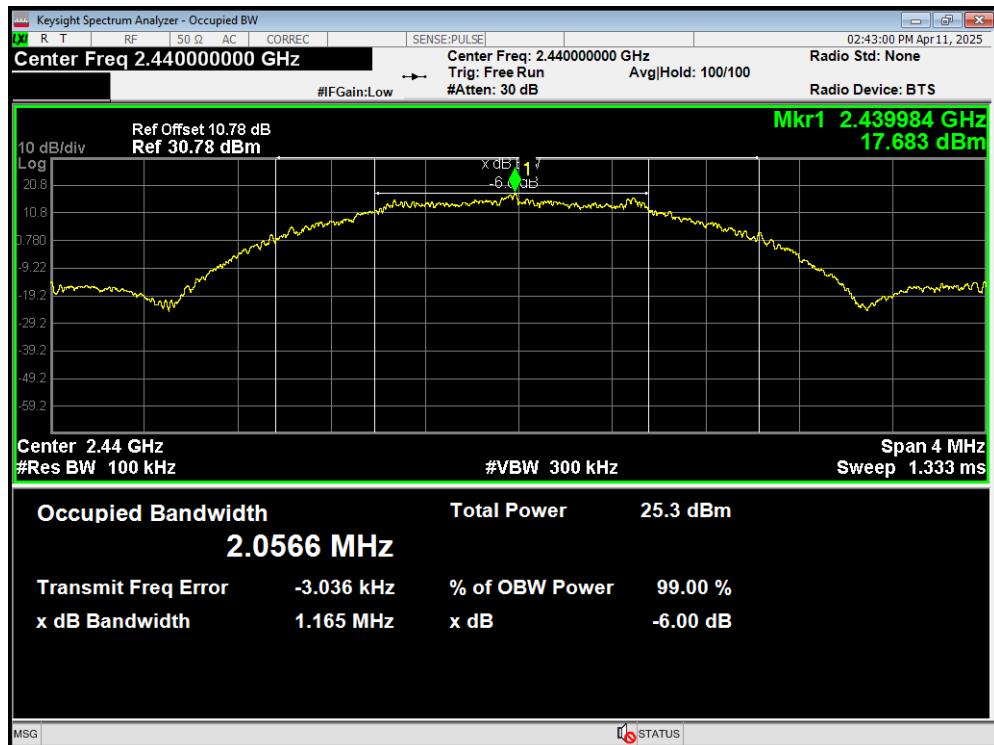
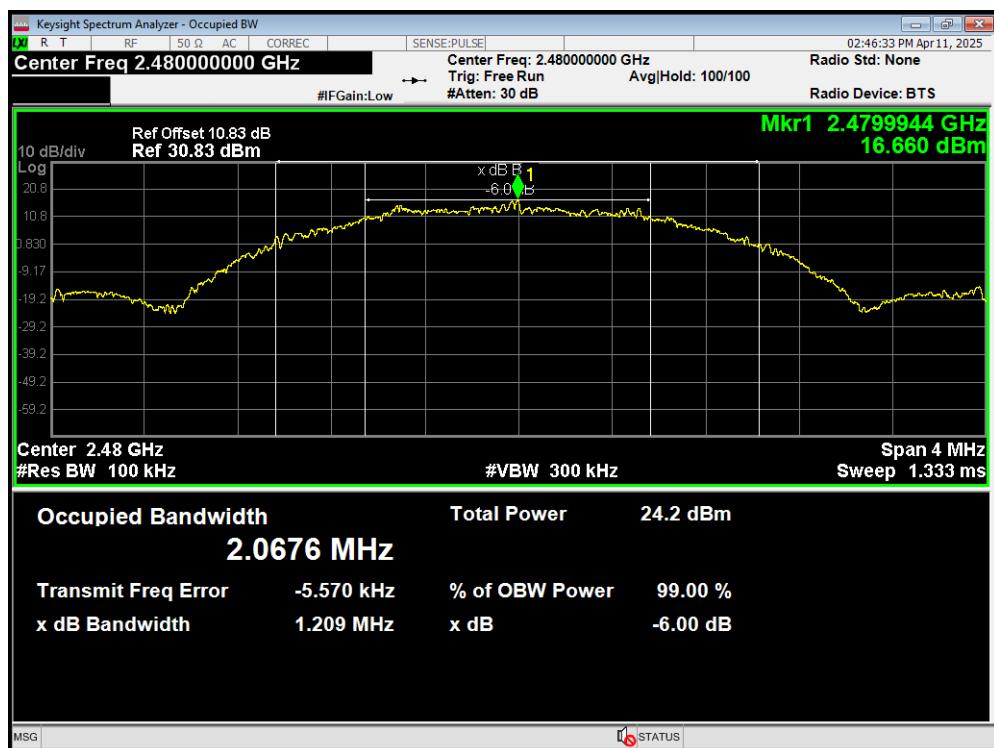
OBW Bluetooth LE(S=8) 2440MHz

OBW Bluetooth LE(S=8) 2480MHz


OBW Zigbee 2405MHz

OBW Zigbee 2440MHz


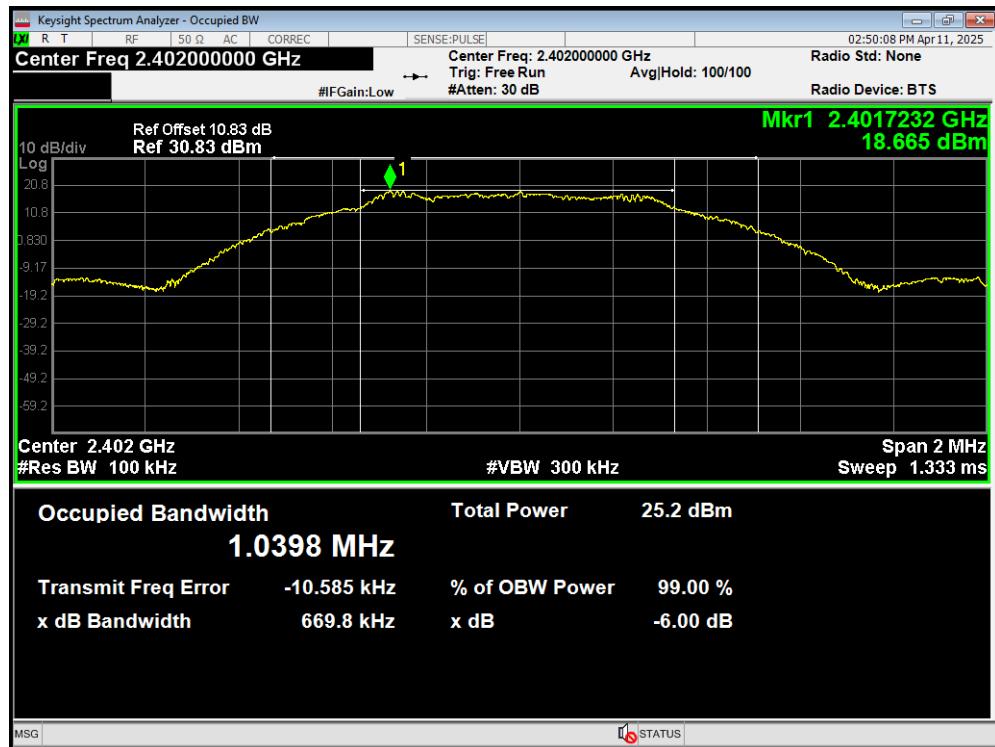
OBW Zigbee 2480MHz


6 dB bandwidth
-6dB Bandwidth Bluetooth LE(1M) 2402MHz

-6dB Bandwidth Bluetooth LE(1M) 2440MHz


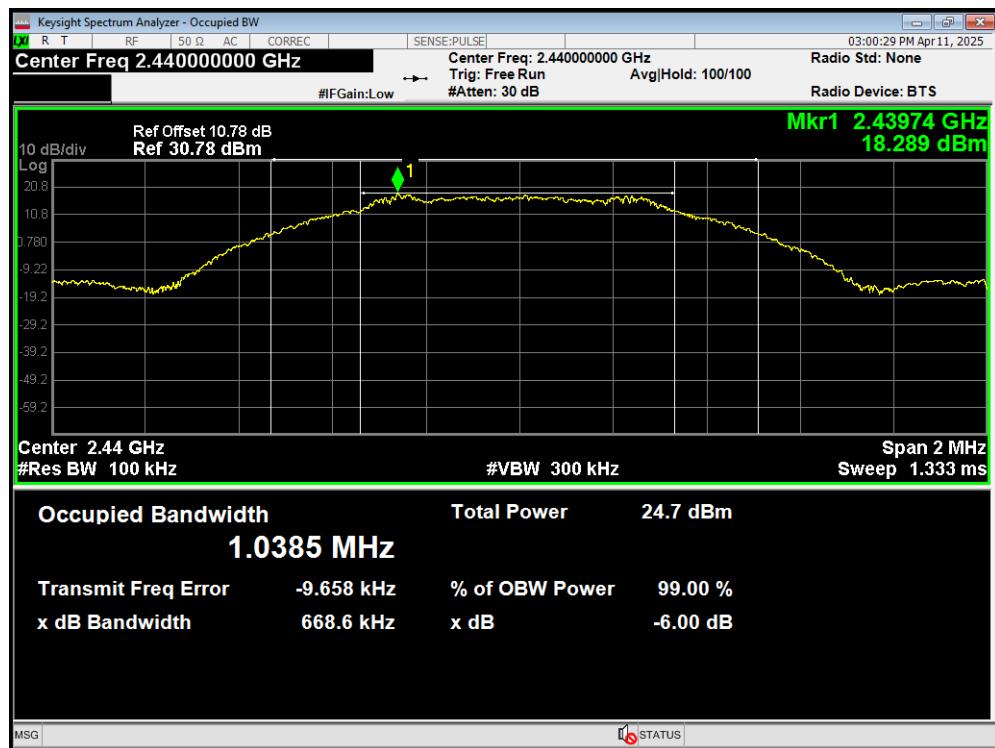
-6dB Bandwidth Bluetooth LE(1M) 2480MHz

-6dB Bandwidth Bluetooth LE(2M) 2402MHz


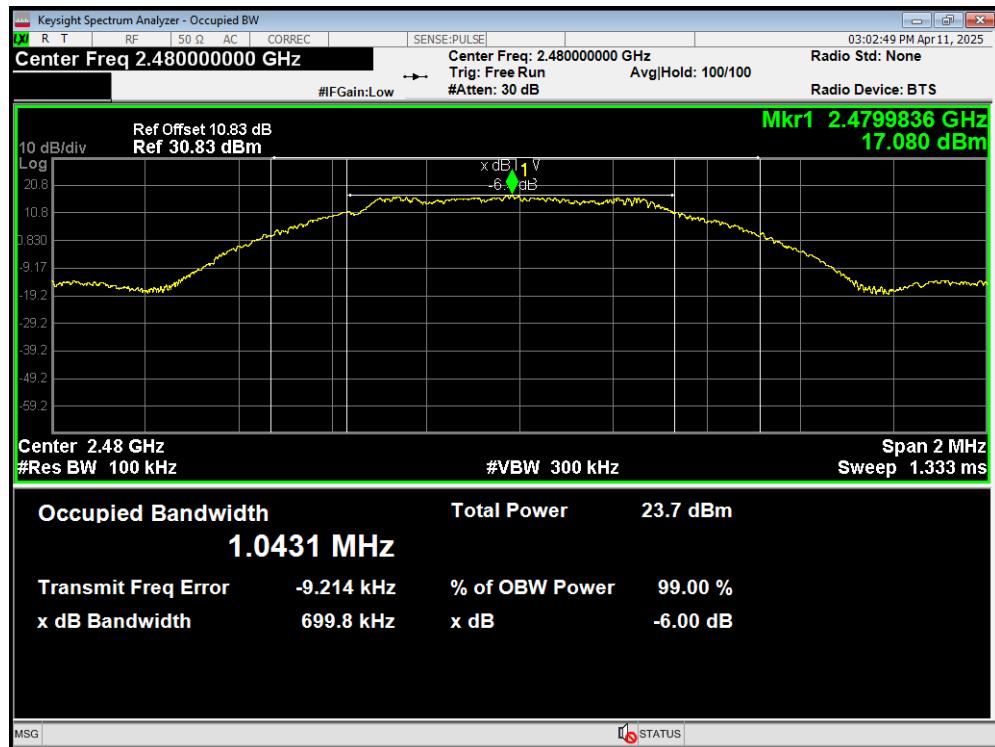
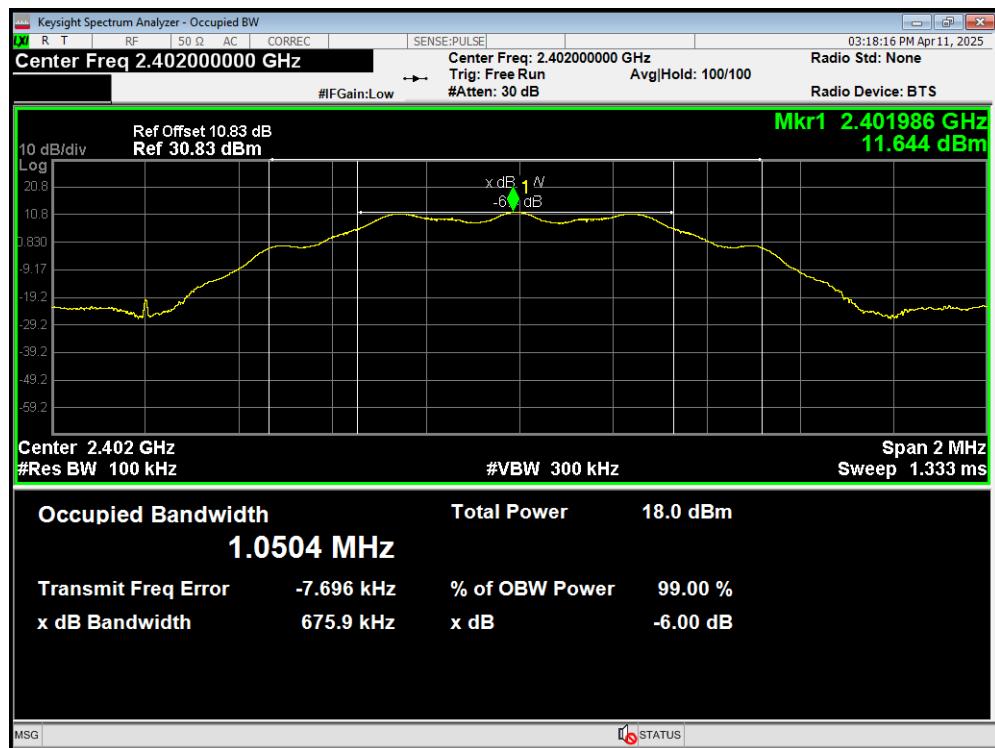
-6dB Bandwidth Bluetooth LE(2M) 2440MHz

-6dB Bandwidth Bluetooth LE(2M) 2480MHz


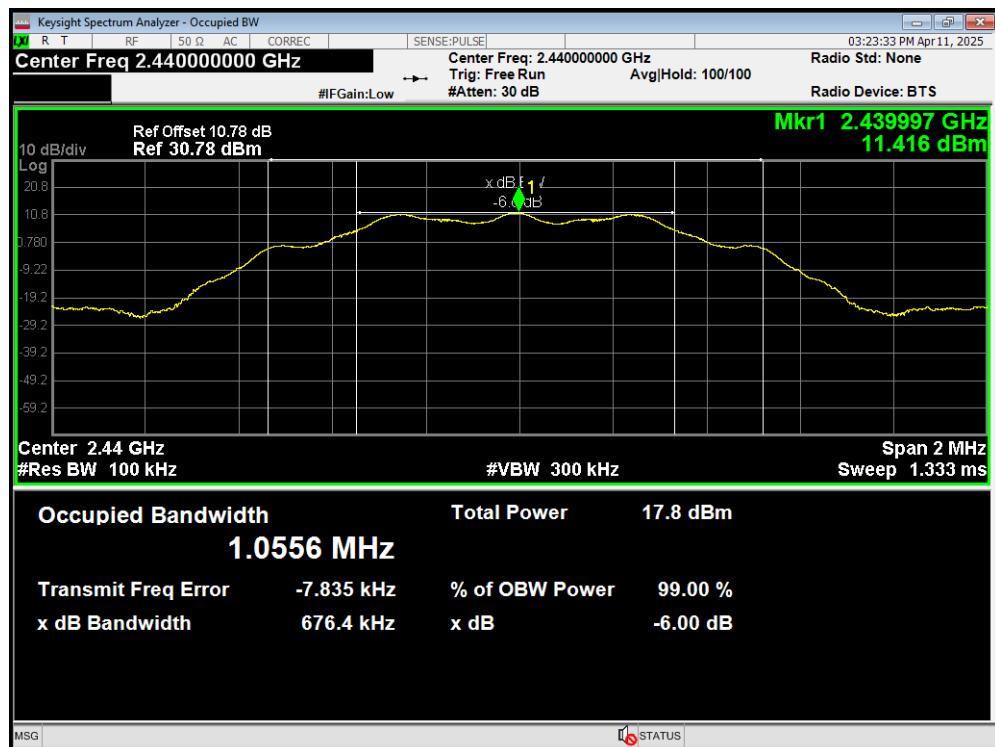
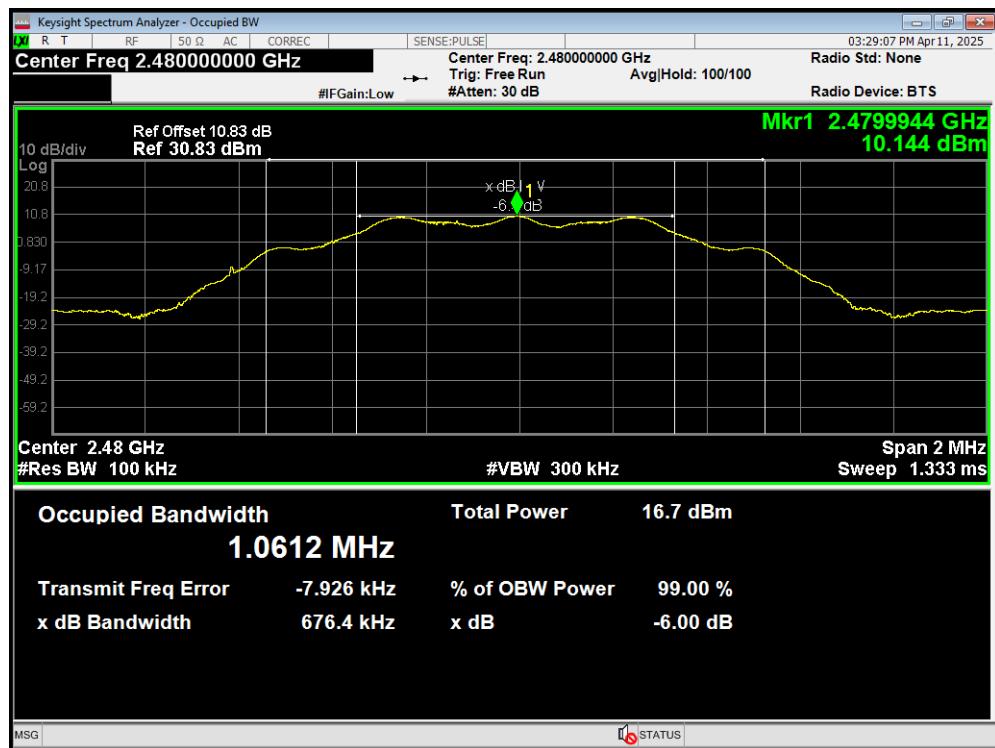
-6dB Bandwidth Bluetooth LE(S=2) 2402MHz

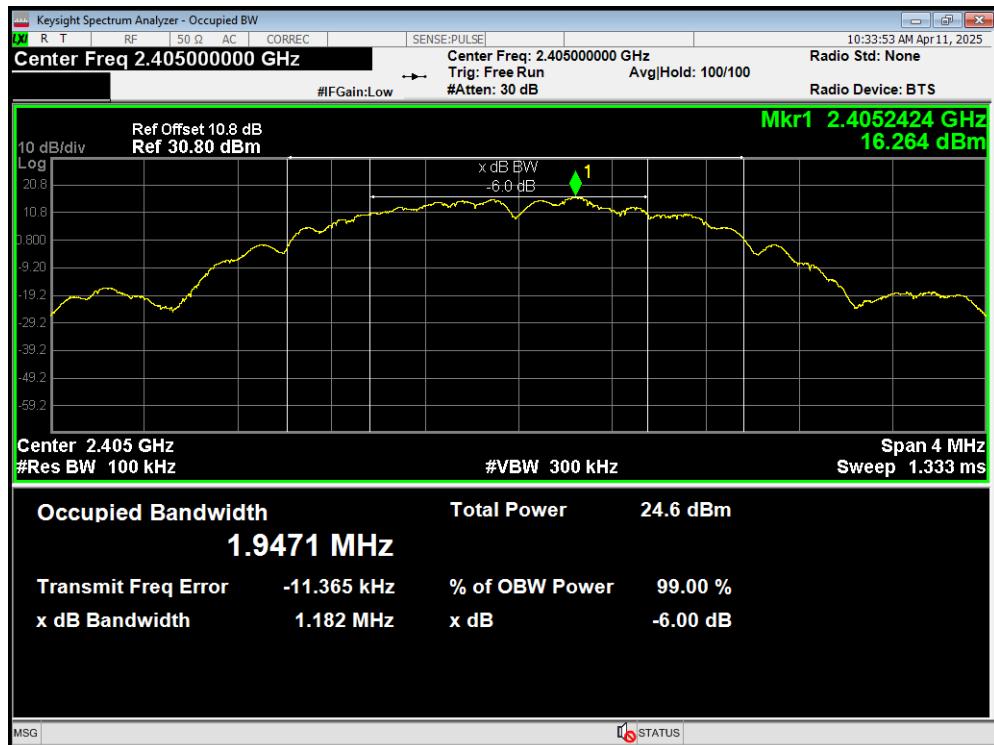
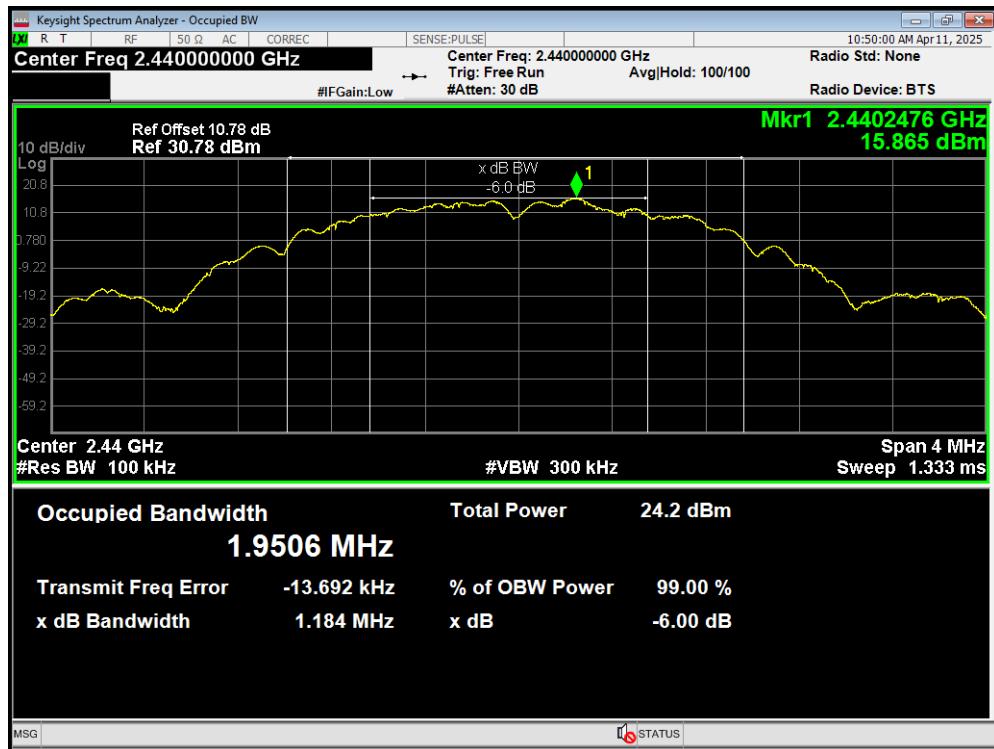


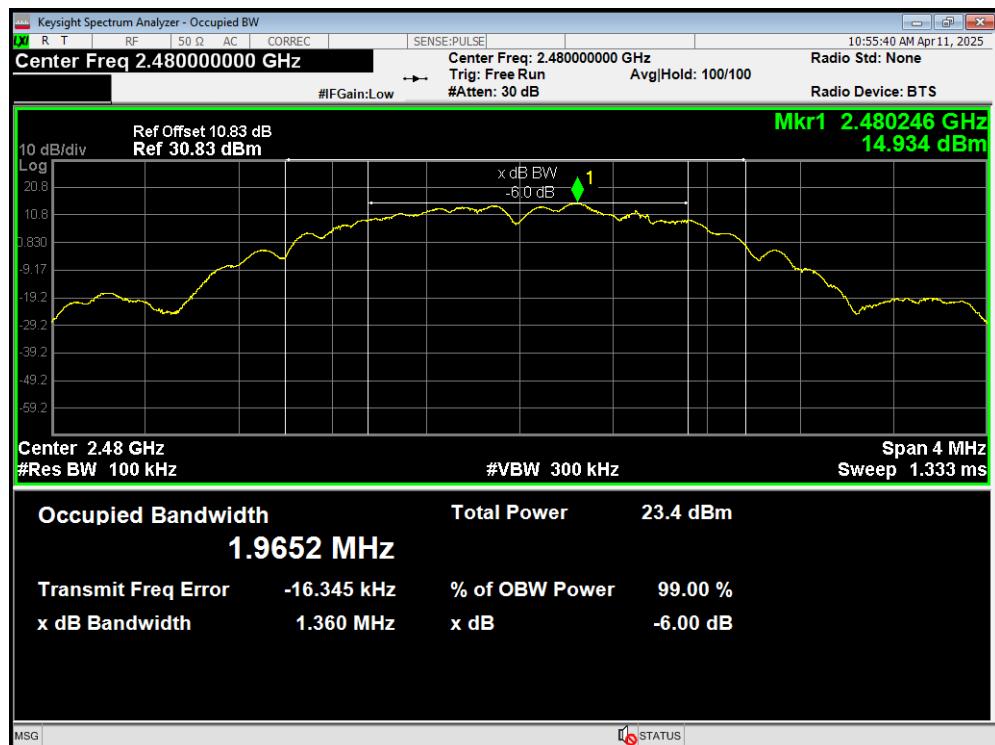
-6dB Bandwidth Bluetooth LE(S=2) 2440MHz



-6dB Bandwidth Bluetooth LE(S=2) 2480MHz

-6dB Bandwidth Bluetooth LE(S=8) 2402MHz


-6dB Bandwidth Bluetooth LE(S=8) 2440MHz

-6dB Bandwidth Bluetooth LE(S=8) 2480MHz


-6dB Bandwidth Zigbee 2405MHz

-6dB Bandwidth Zigbee 2440MHz


-6dB Bandwidth Zigbee 2480MHz


5.3. Band Edge

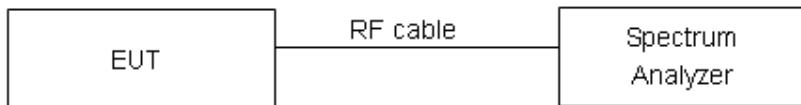
Ambient Condition

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 $k = 1.96$.

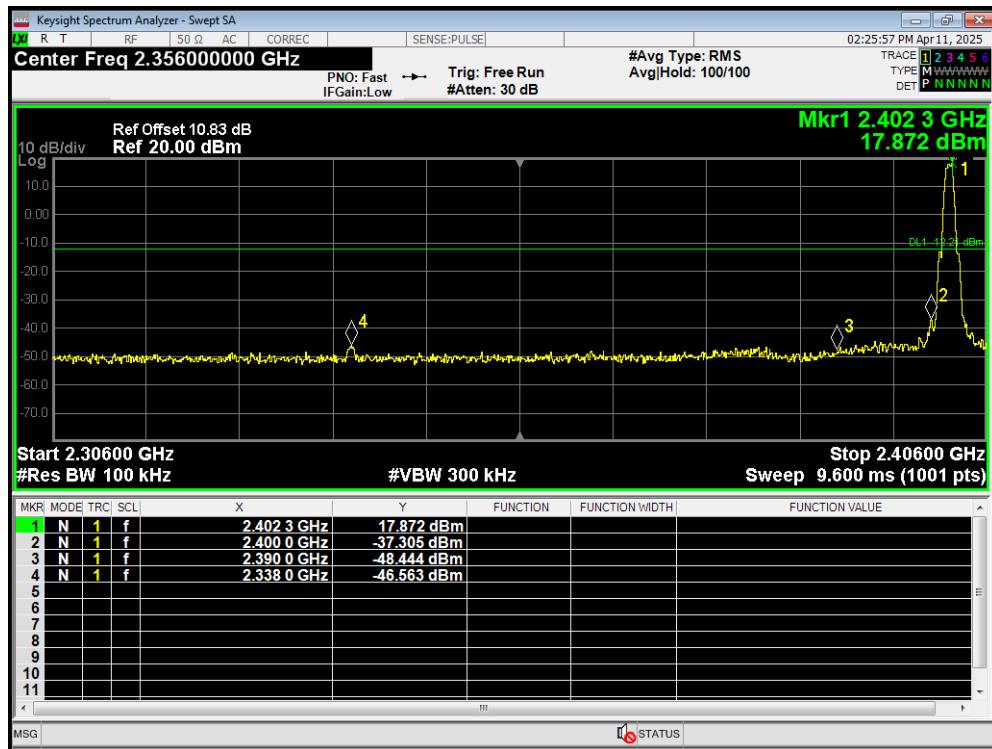
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results: PASS

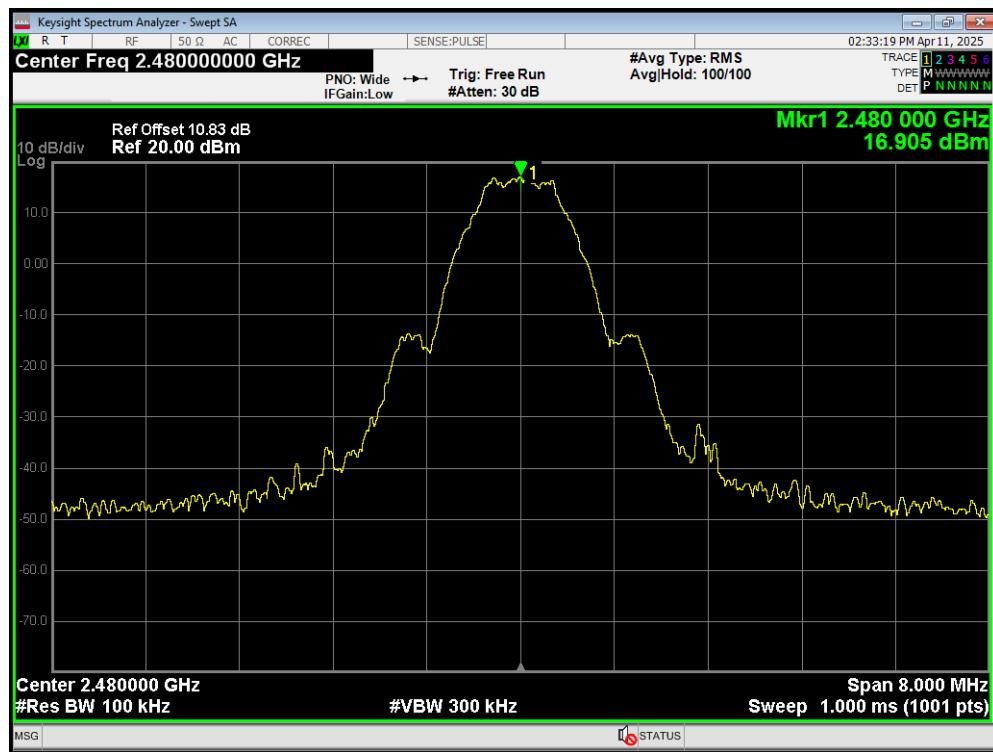
Band Edge Bluetooth LE(1M) 2402MHz Ref



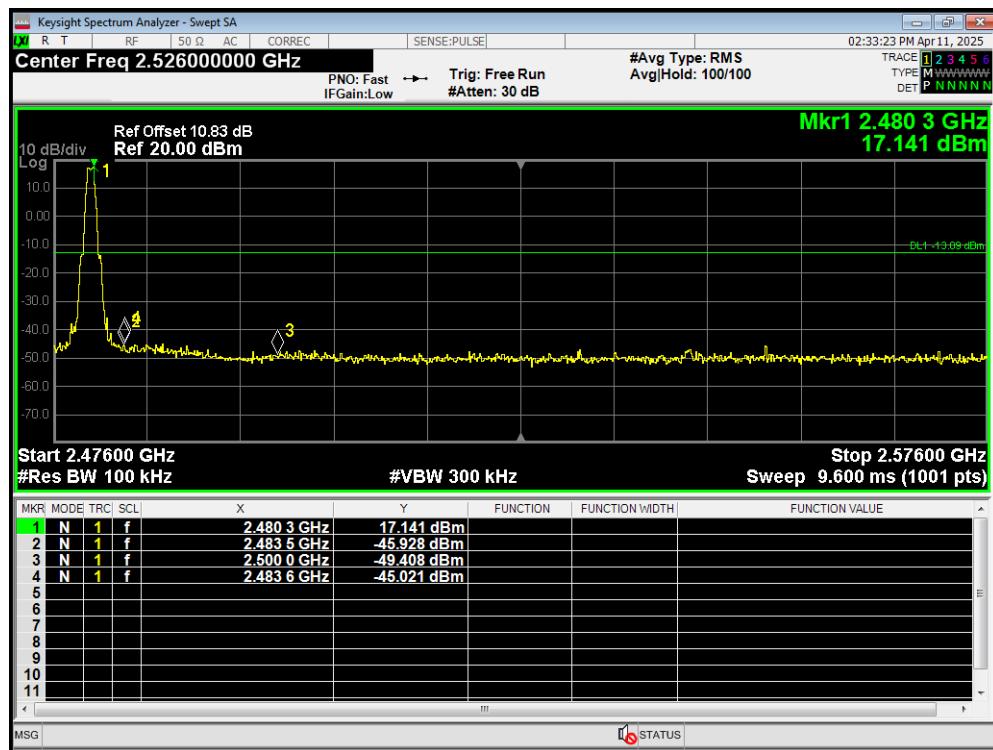
Band Edge Bluetooth LE(1M) 2402MHz Emission



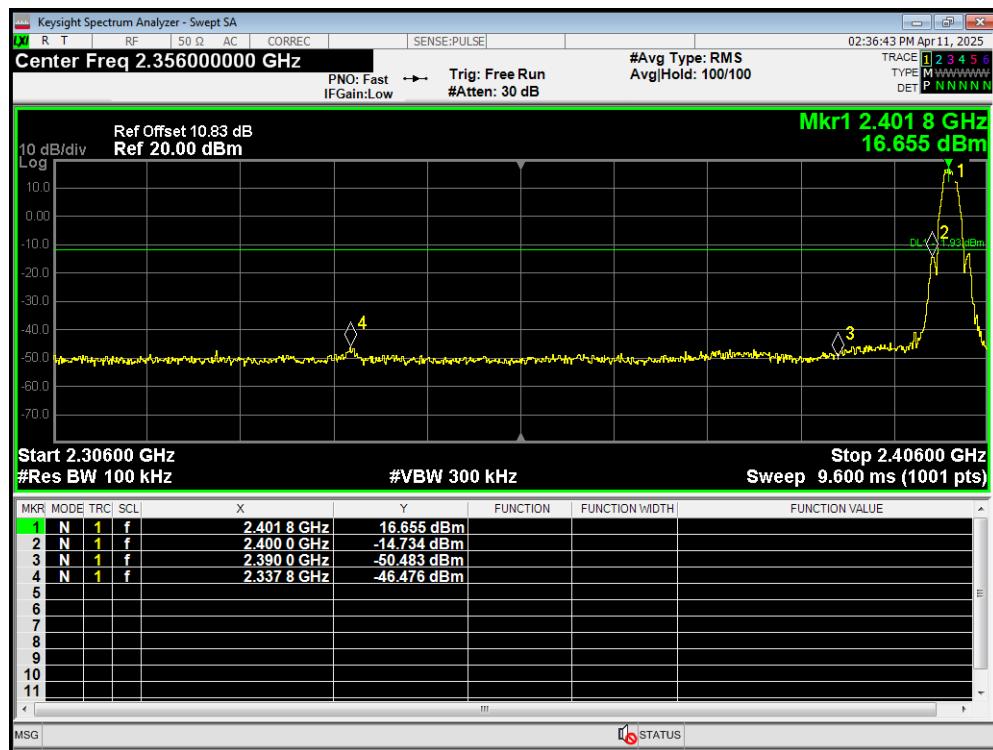
Band Edge Bluetooth LE(1M) 2480MHz Ref



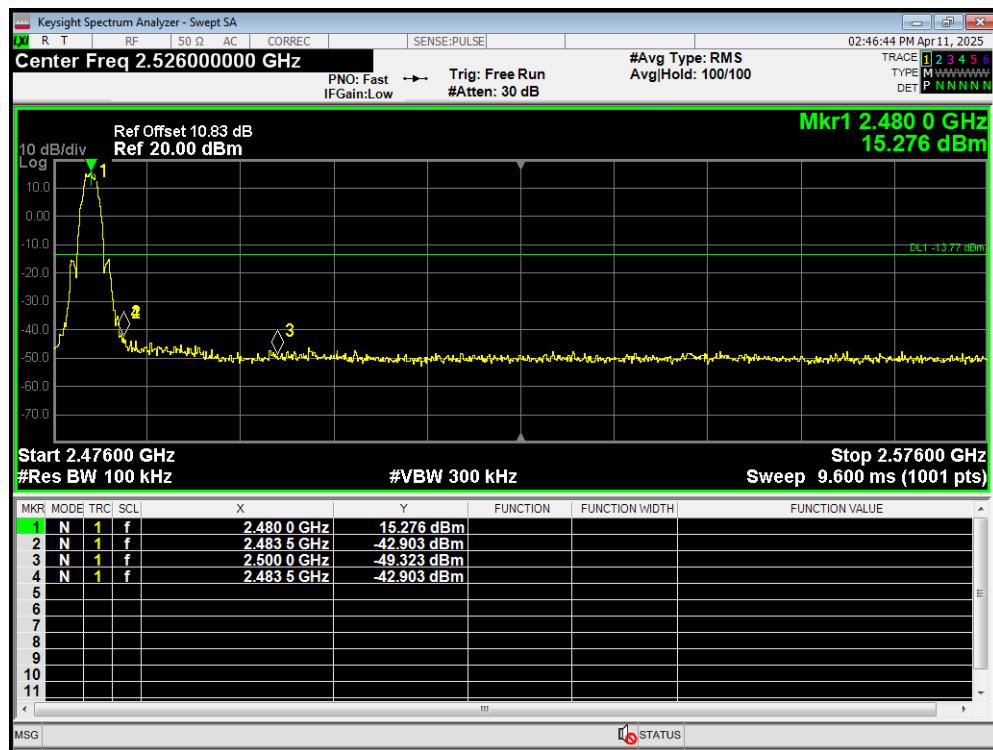
Band Edge Bluetooth LE(1M) 2480MHz Emission



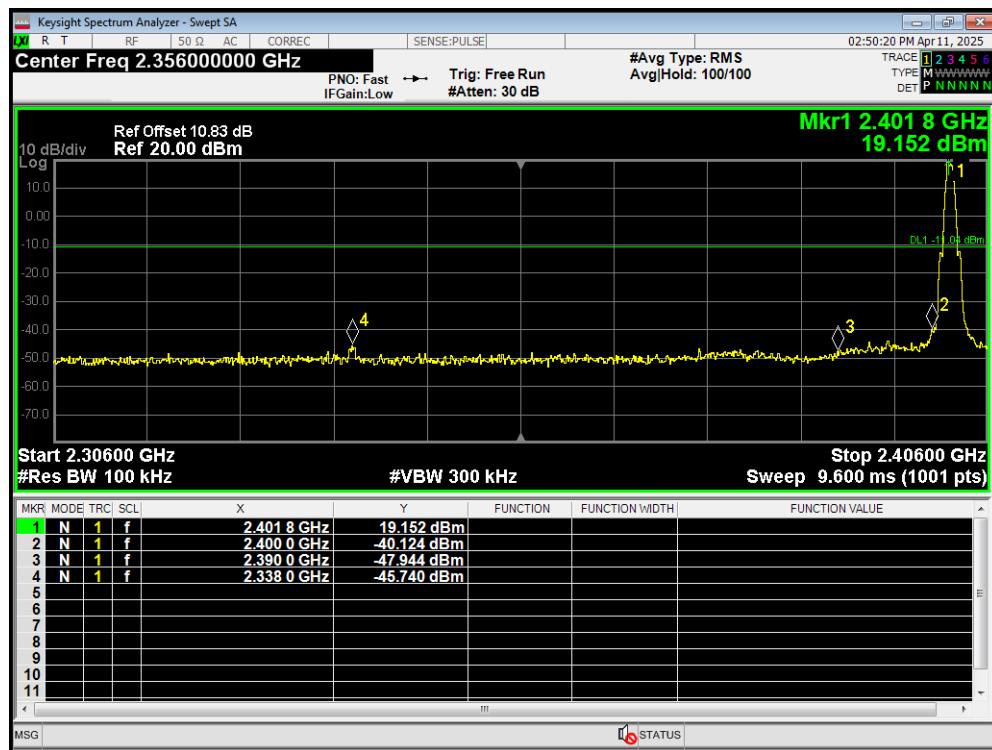
Band Edge Bluetooth LE(2M) 2402MHz Ref

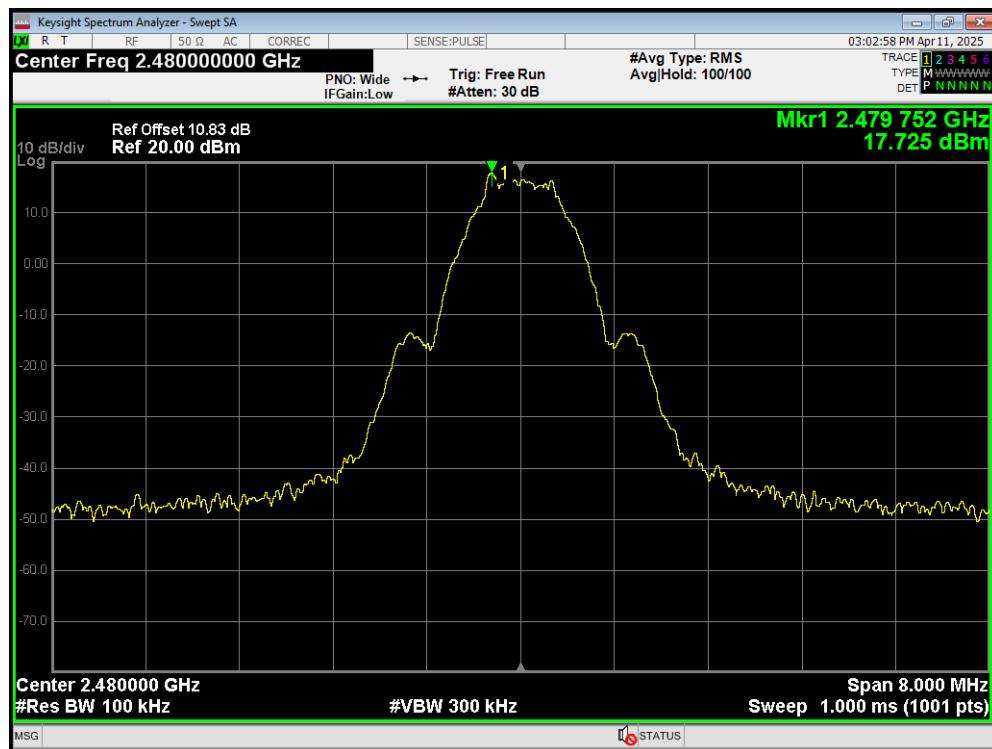
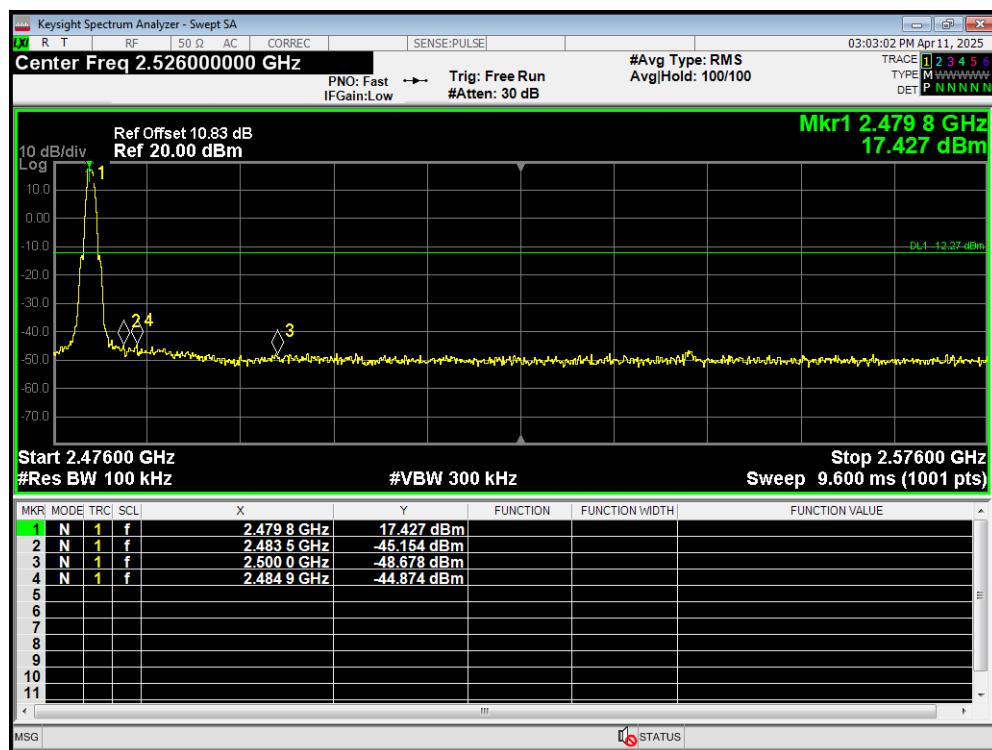
Band Edge Bluetooth LE(2M) 2402MHz Emission


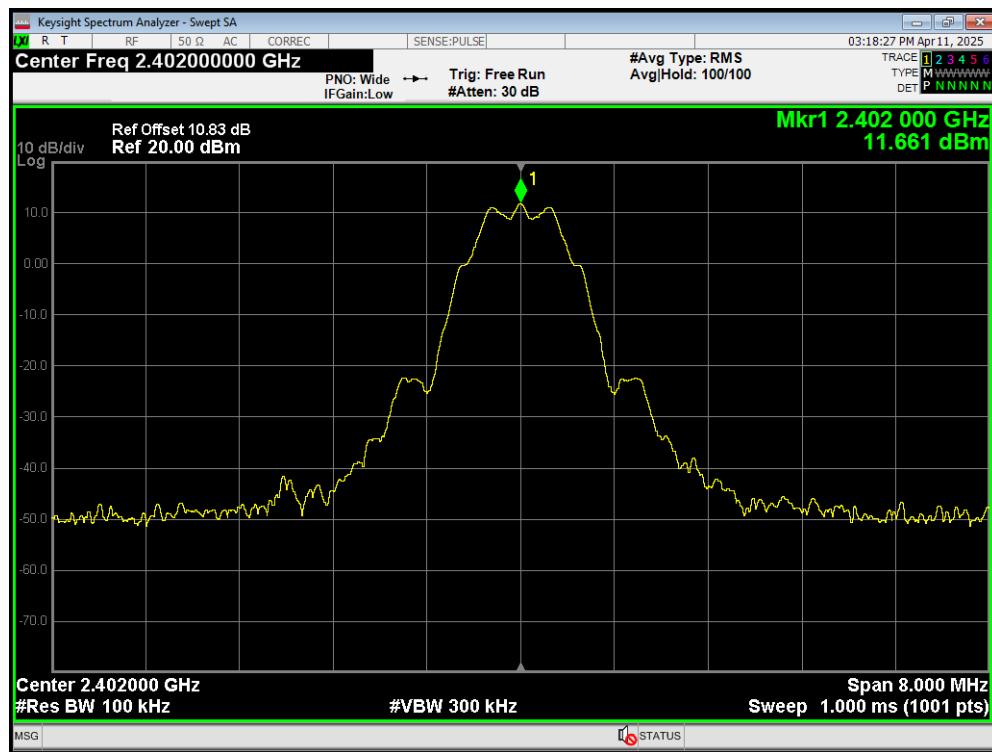
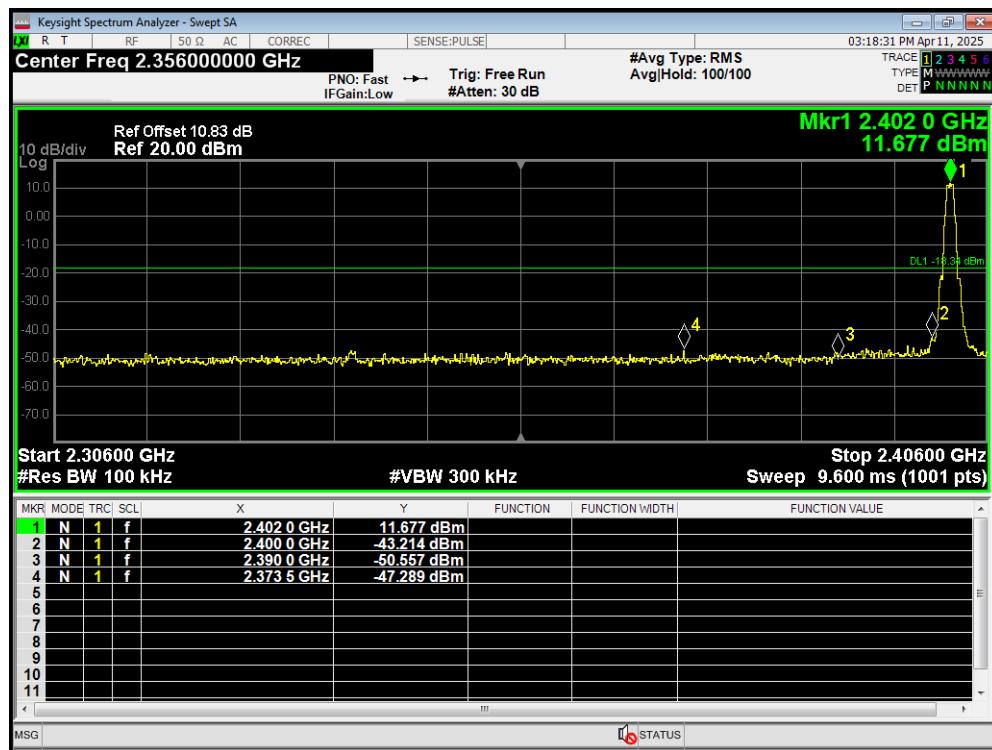
Band Edge Bluetooth LE(2M) 2480MHz Ref

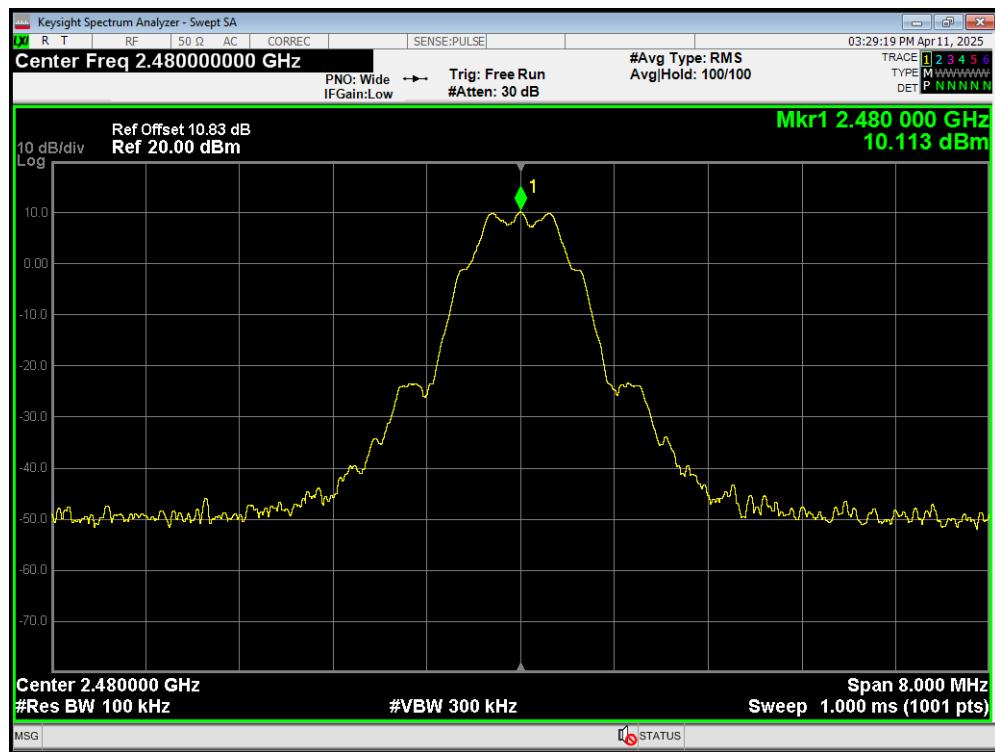
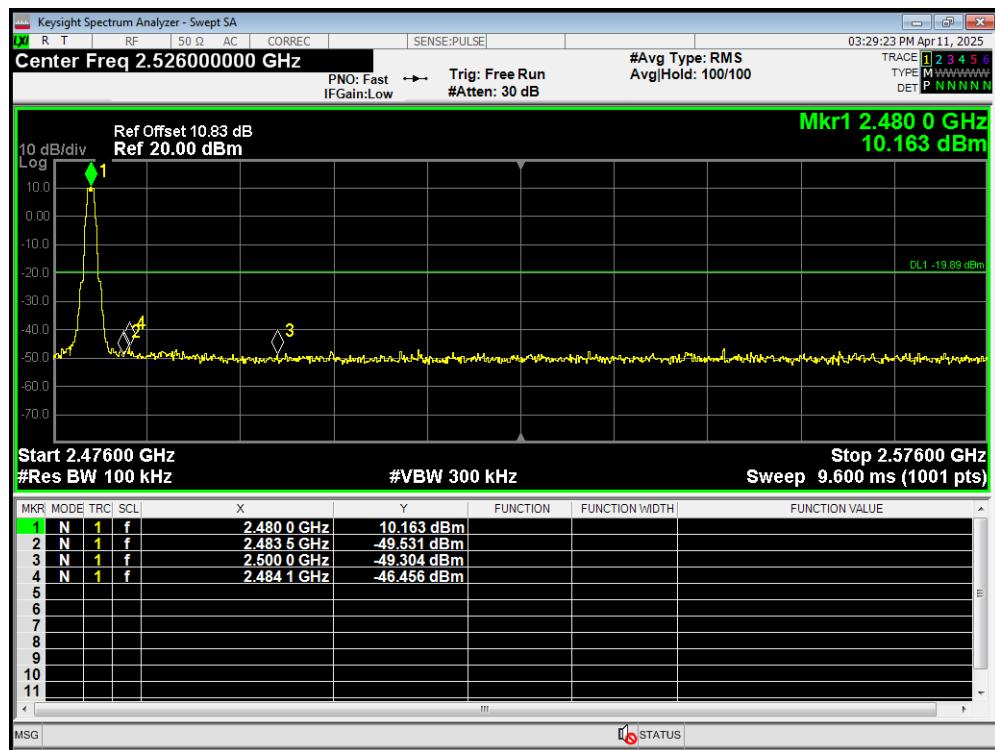
Band Edge Bluetooth LE(2M) 2480MHz Emission


Band Edge Bluetooth LE(S=2) 2402MHz Ref

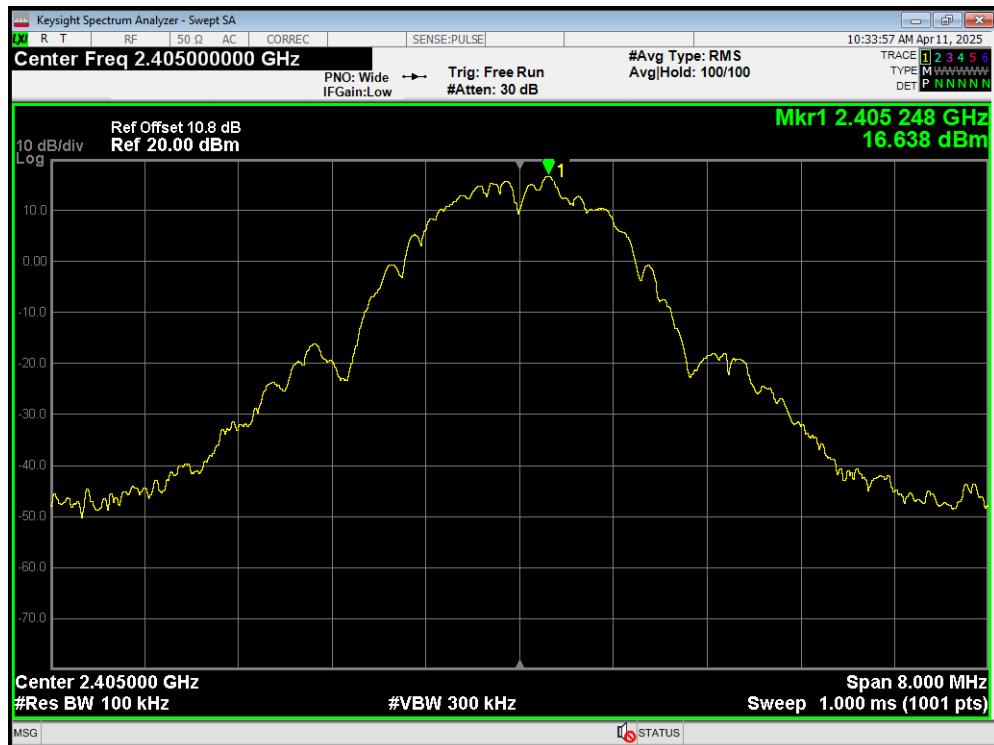
Band Edge Bluetooth LE(S=2) 2402MHz Emission


Band Edge Bluetooth LE(S=2) 2480MHz Ref

Band Edge Bluetooth LE(S=2) 2480MHz Emission


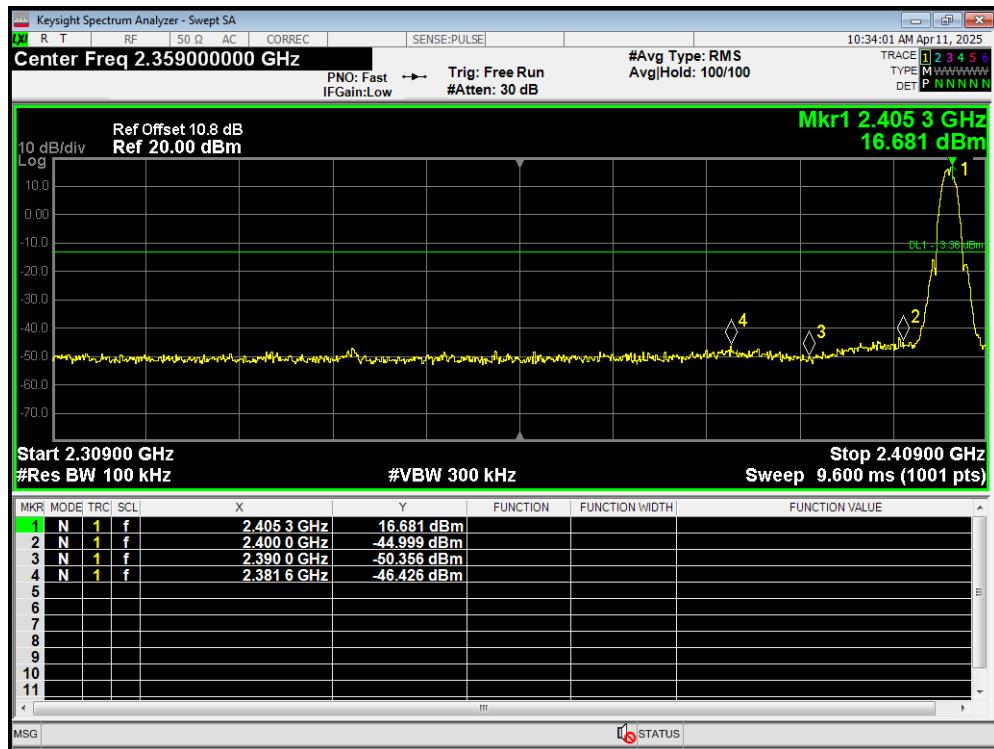
Band Edge Bluetooth LE(S=8) 2402MHz Ref

Band Edge Bluetooth LE(S=8) 2402MHz Emission


Band Edge Bluetooth LE(S=8) 2480MHz Ref

Band Edge Bluetooth LE(S=8) 2480MHz Emission


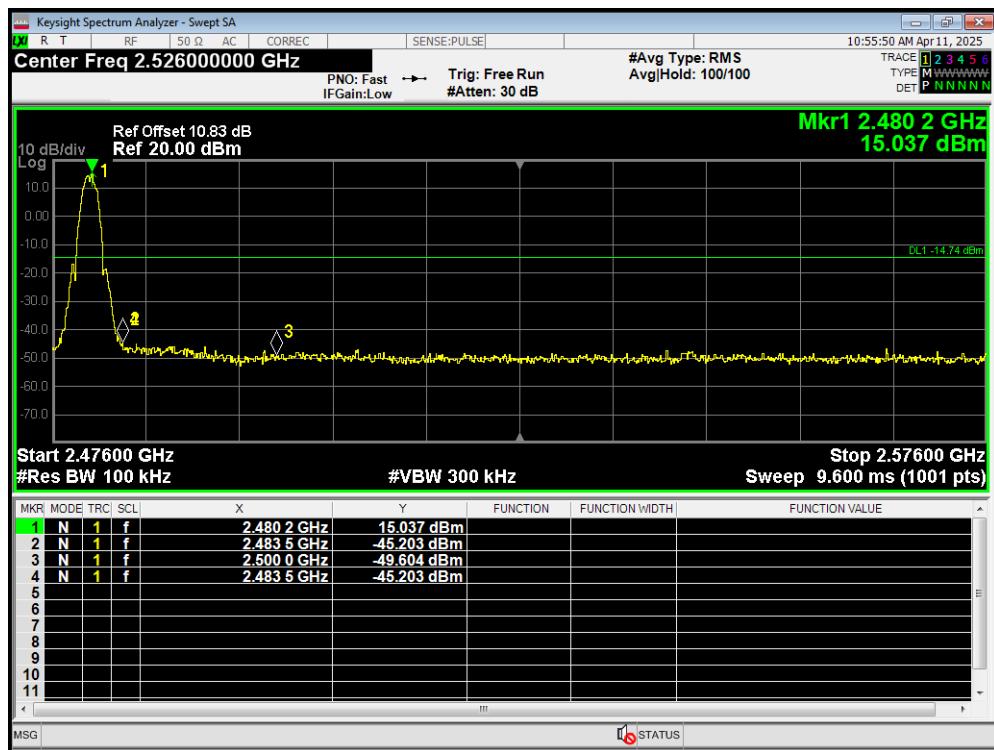
Band Edge Zigbee 2405MHz Ref



Band Edge Zigbee 2405MHz Emission



Band Edge Zigbee 2480MHz Ref

Band Edge Zigbee 2480MHz Emission


5.4. Power Spectral Density

Ambient Condition

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

Method of Measurement

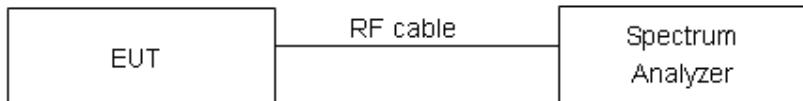
During the process of the testing, The EUT was connected to Spectrum Analyzer with a known loss.

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: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$
- d) Set VBW $\geq [3 \times \text{RBW}]$
- e) Detector=power averaging (rms) or sample detector (when rms not available)
- f) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span}/\text{RBW}]$
- 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)

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	$\leq 8 \text{ dBm} / 3\text{kHz}$
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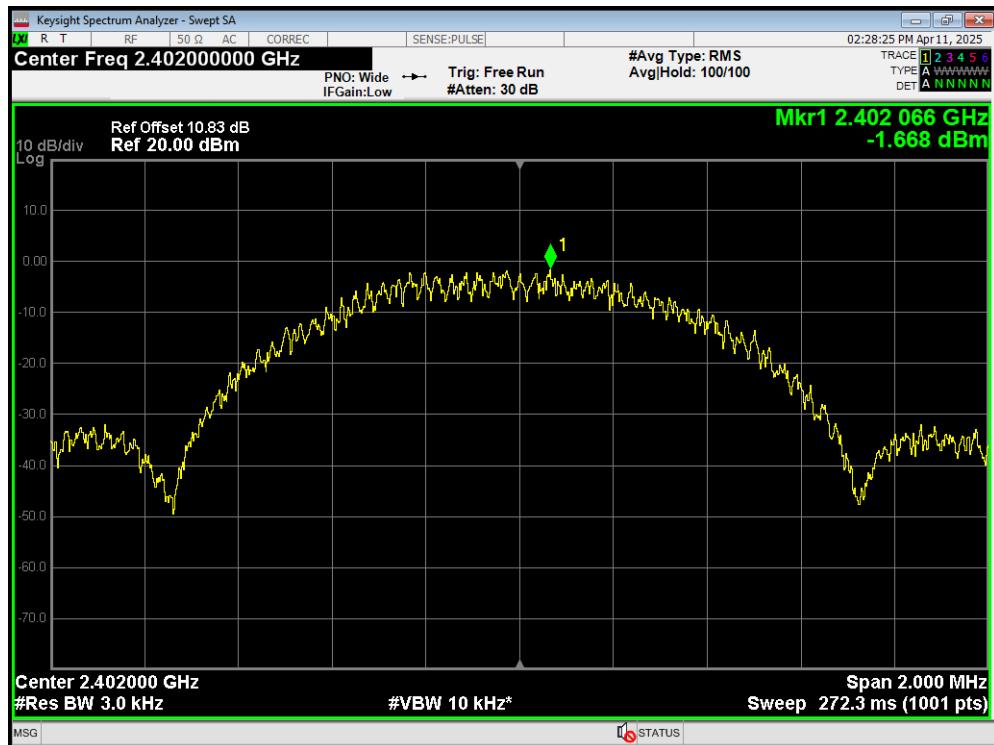
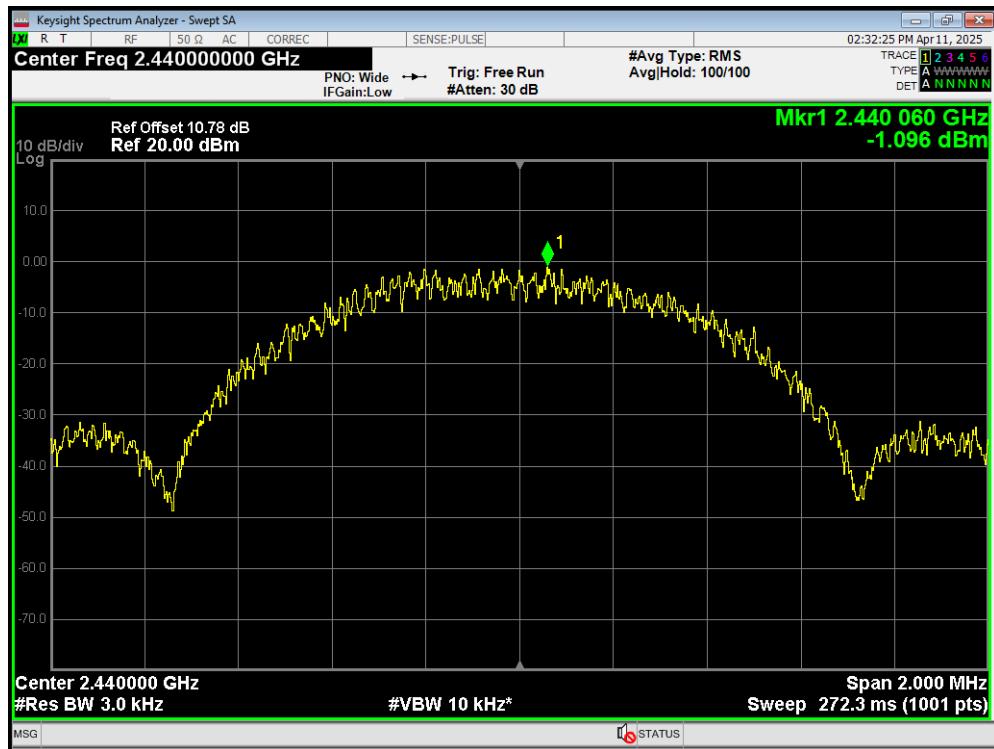
Measurement Uncertainty

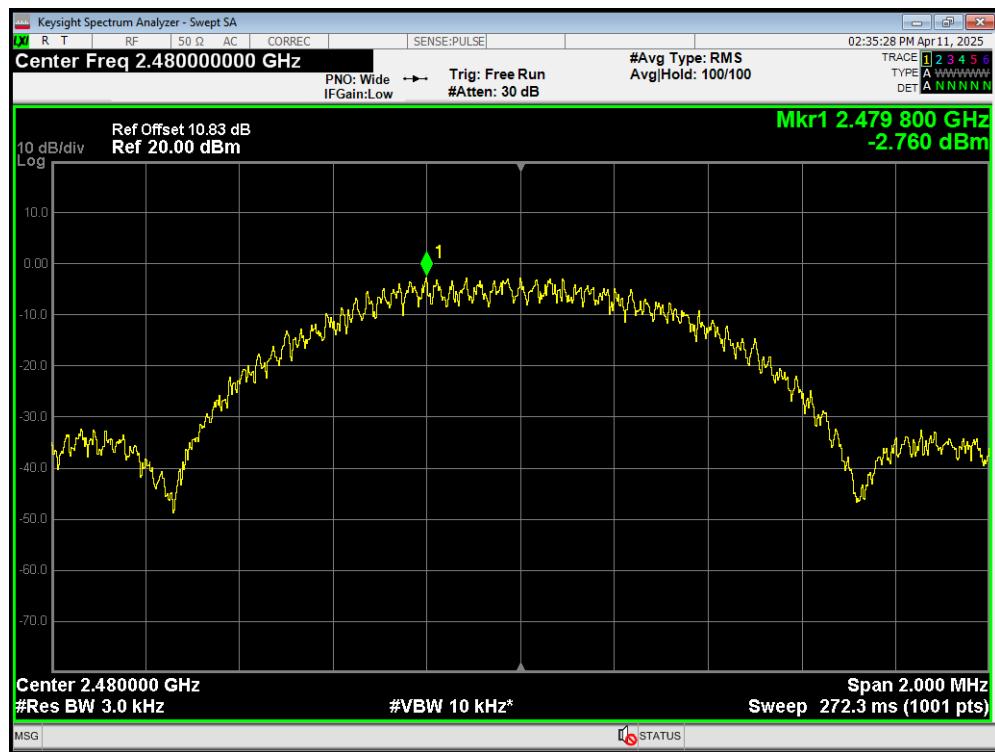
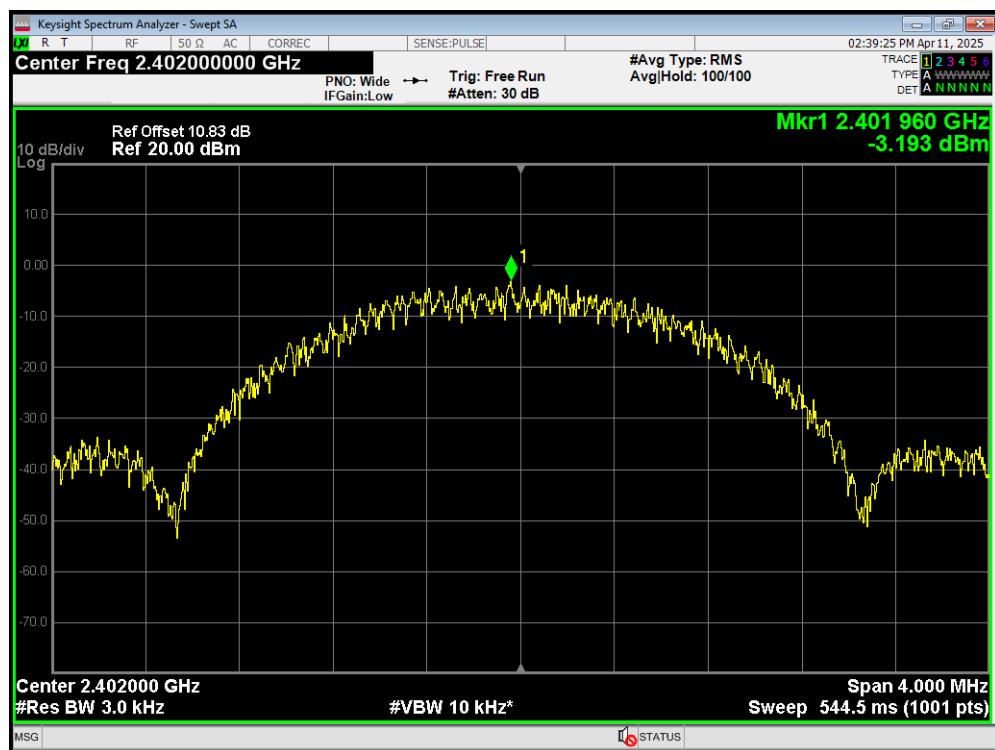
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

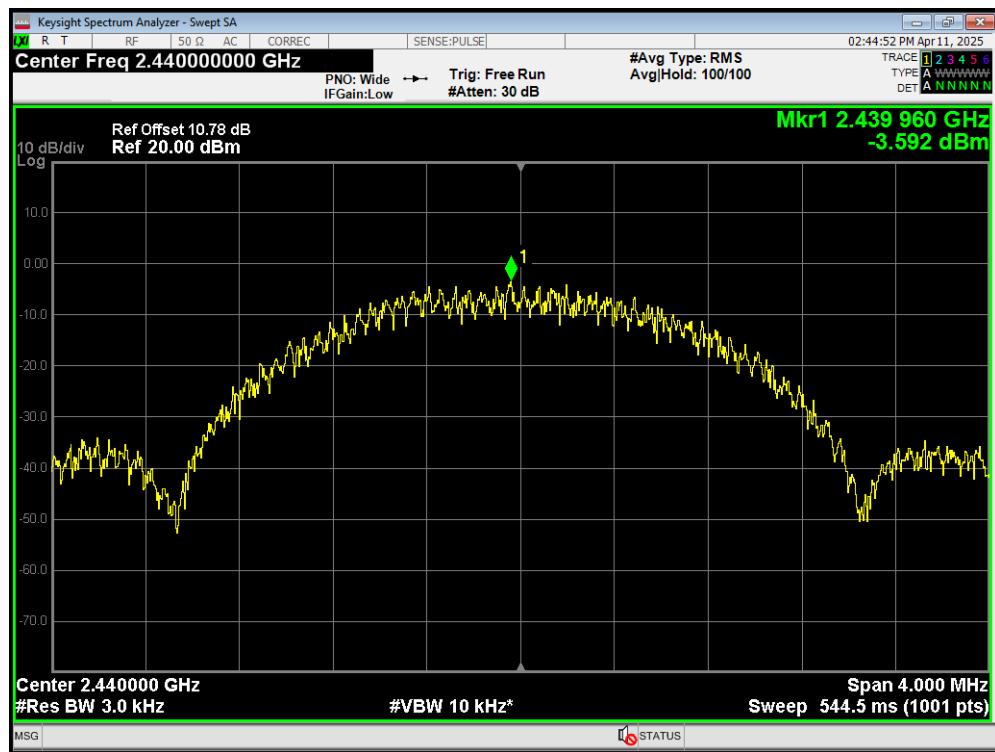
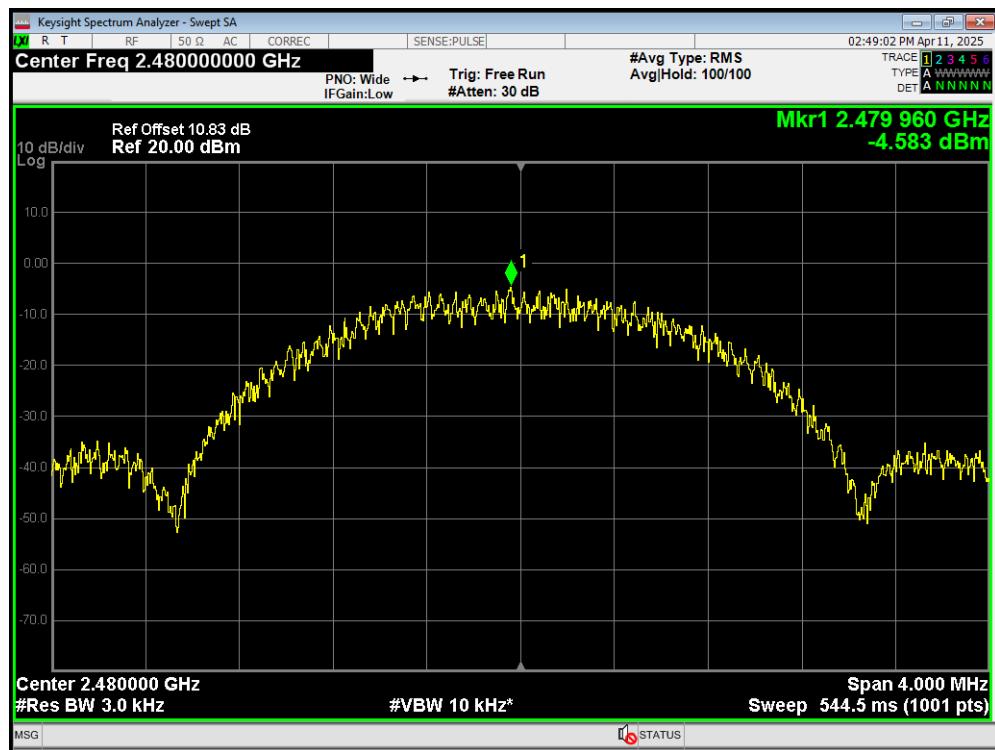
Test Results:

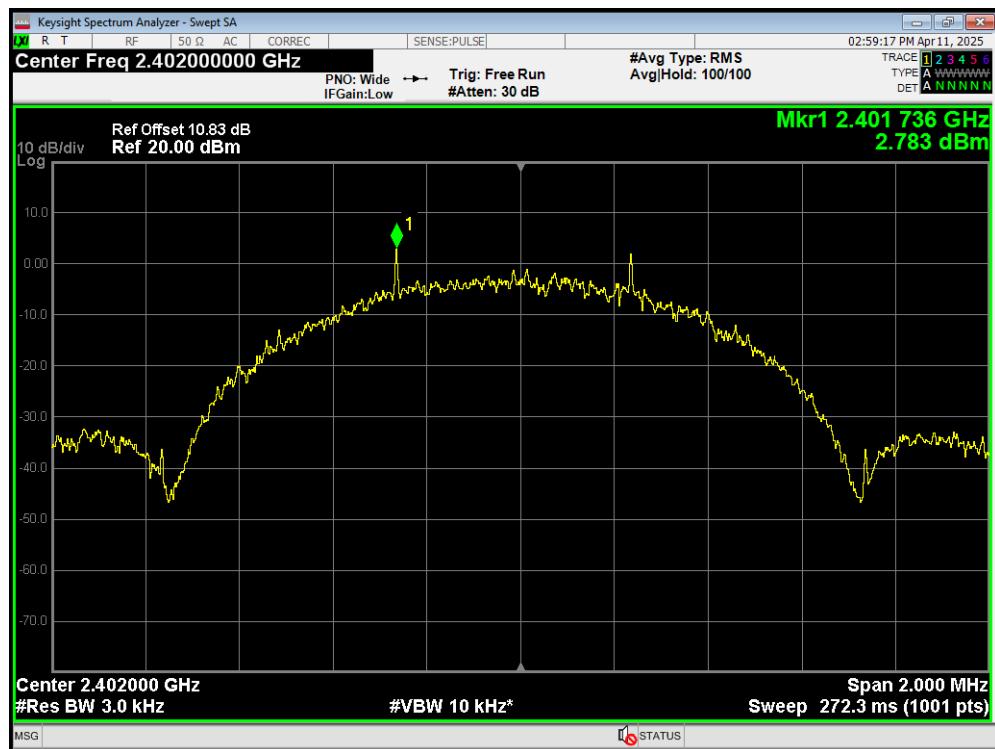
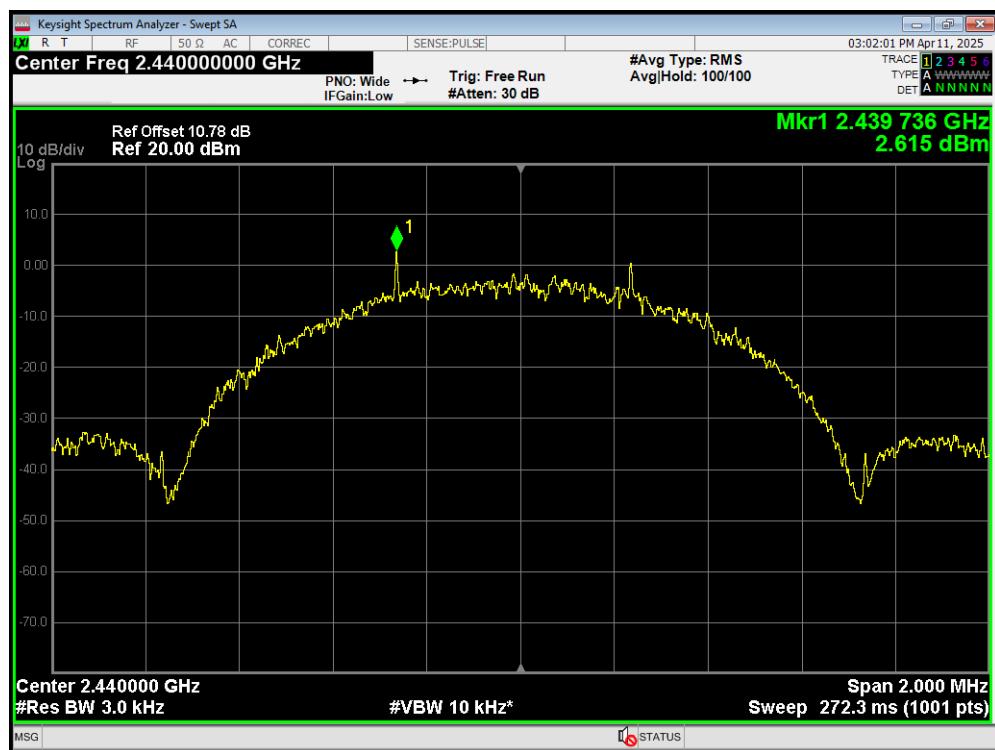
Test Mode	Carrier frequency (MHz) / Channel	Read Value (dBm / 3kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
Bluetooth (Low Energy) (1M)	2402/CH0	-1.67	-1.67	8	PASS
	2440/CH19	-1.10	-1.10	8	PASS
	2480/CH39	-2.76	-2.76	8	PASS
Bluetooth (Low Energy) (2M)	2402/CH0	-3.19	-3.19	8	PASS
	2440/CH19	-3.59	-3.59	8	PASS
	2480/CH39	-4.58	-4.58	8	PASS
Bluetooth (Low Energy) (S=2)	2402/CH0	2.78	2.78	8	PASS
	2440/CH19	2.62	2.62	8	PASS
	2480/CH39	0.88	0.88	8	PASS
Bluetooth (Low Energy) (S=8)	2402/CH0	7.52	7.52	8	PASS
	2440/CH19	7.79	7.79	8	PASS
	2480/CH39	6.15	6.15	8	PASS
Zigbee	2405/CH11	2.63	2.63	8	PASS
	2440/CH18	2.53	2.53	8	PASS
	2480/CH26	1.00	1.00	8	PASS

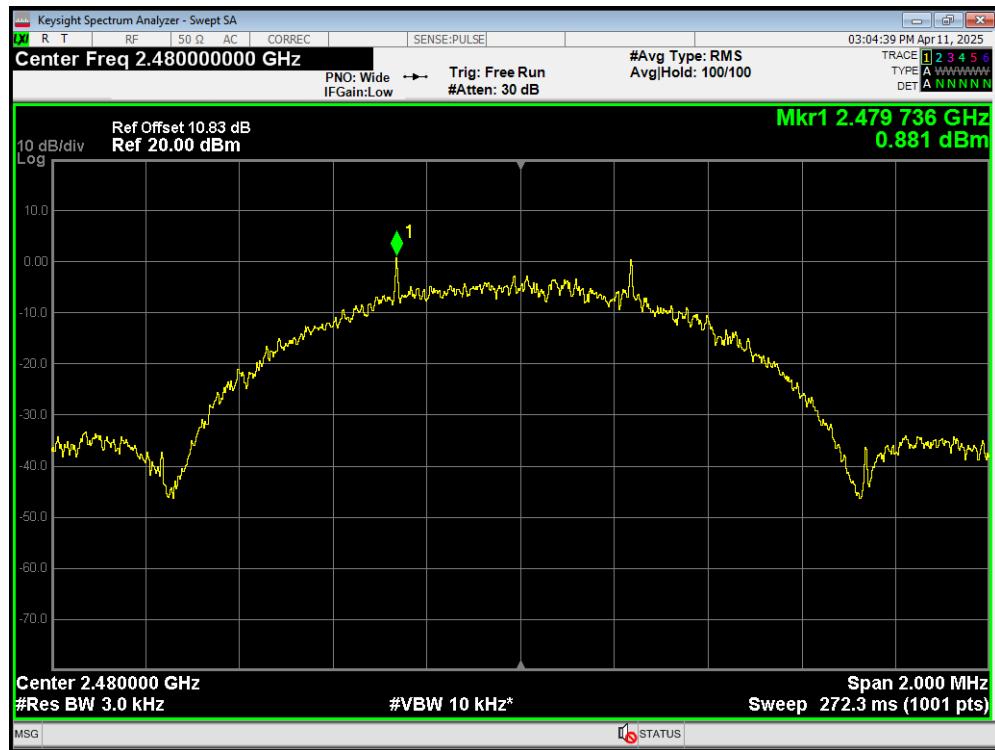
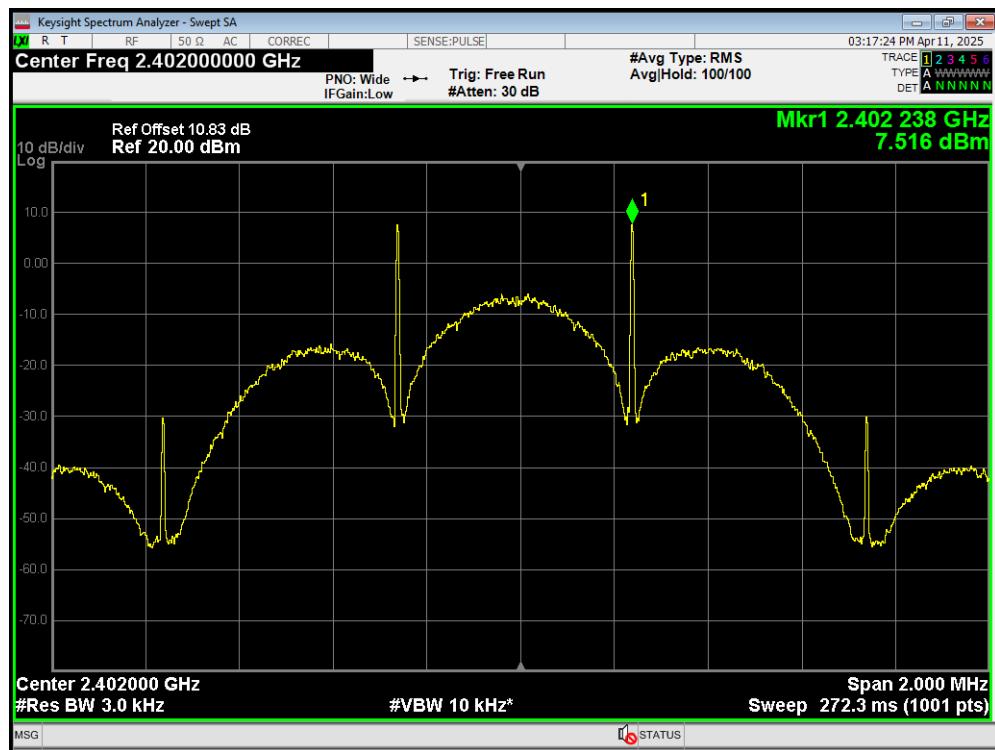
Note: Power Spectral Density =Read Value+Duty cycle correction factor

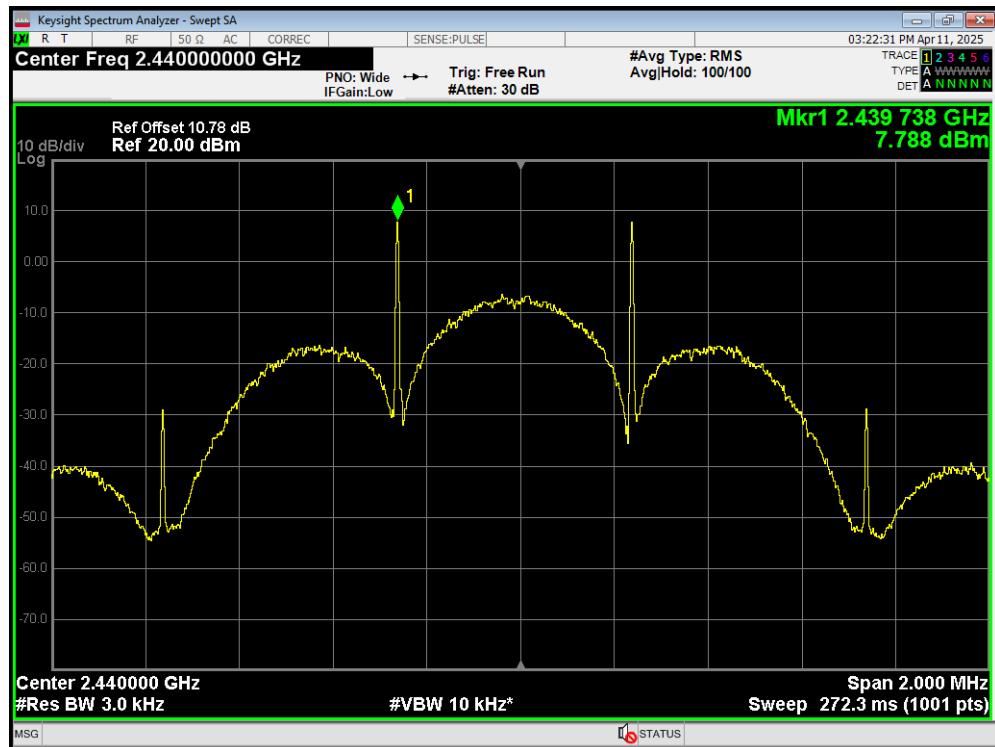
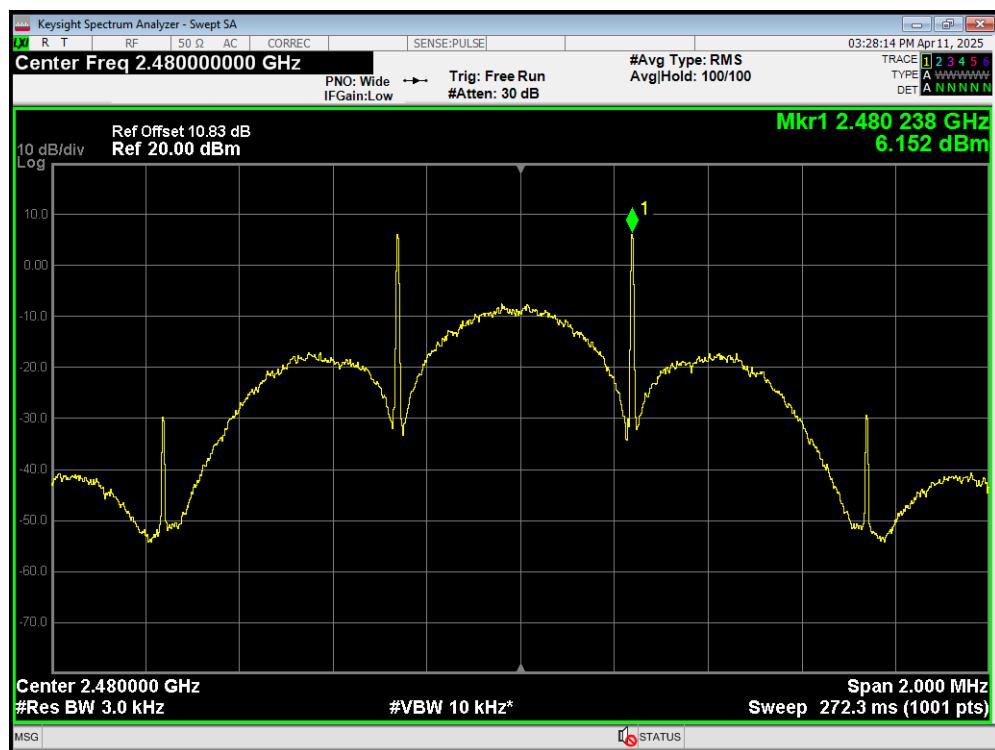
PSD Bluetooth LE(1M) 2402MHz

PSD Bluetooth LE(1M) 2440MHz


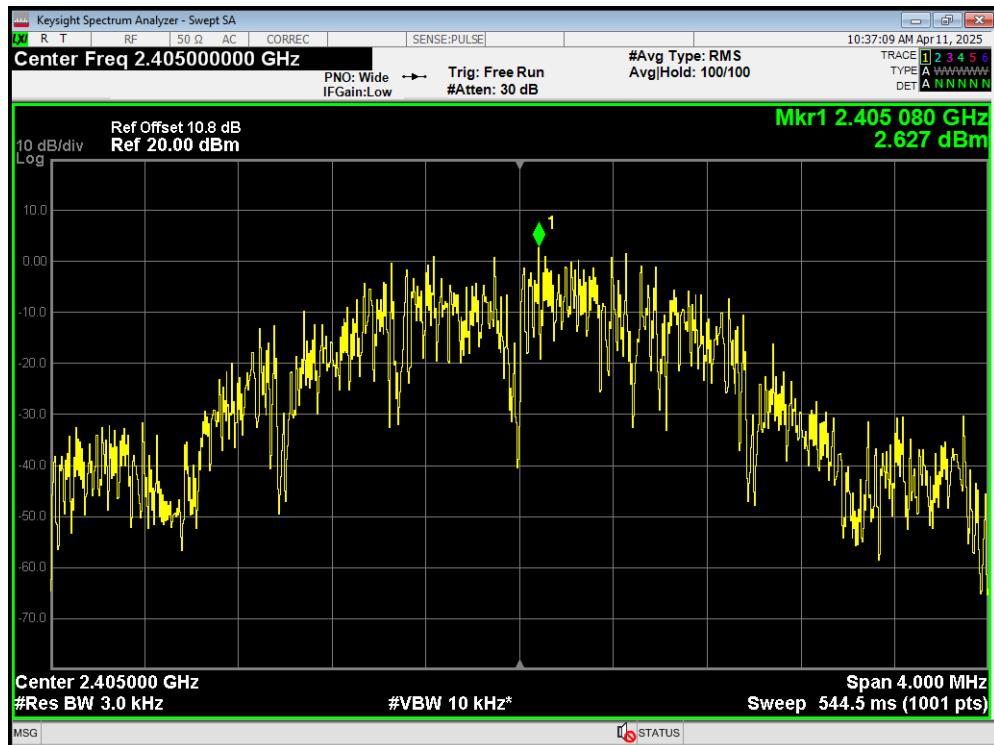
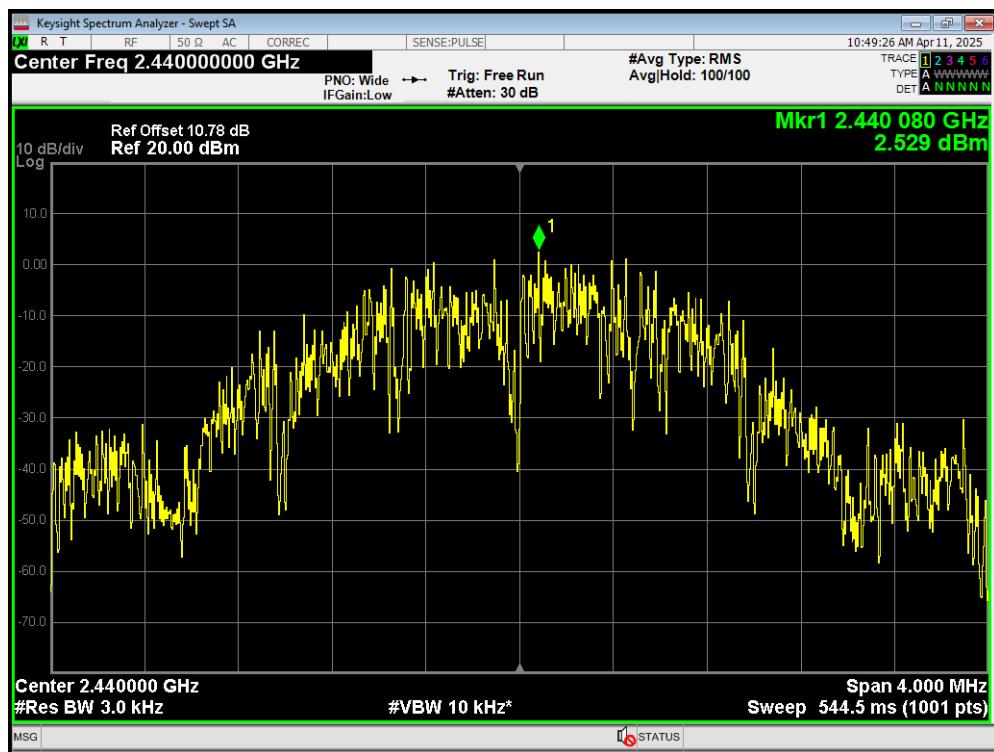
PSD Bluetooth LE(1M) 2480MHz

PSD Bluetooth LE(2M) 2402MHz


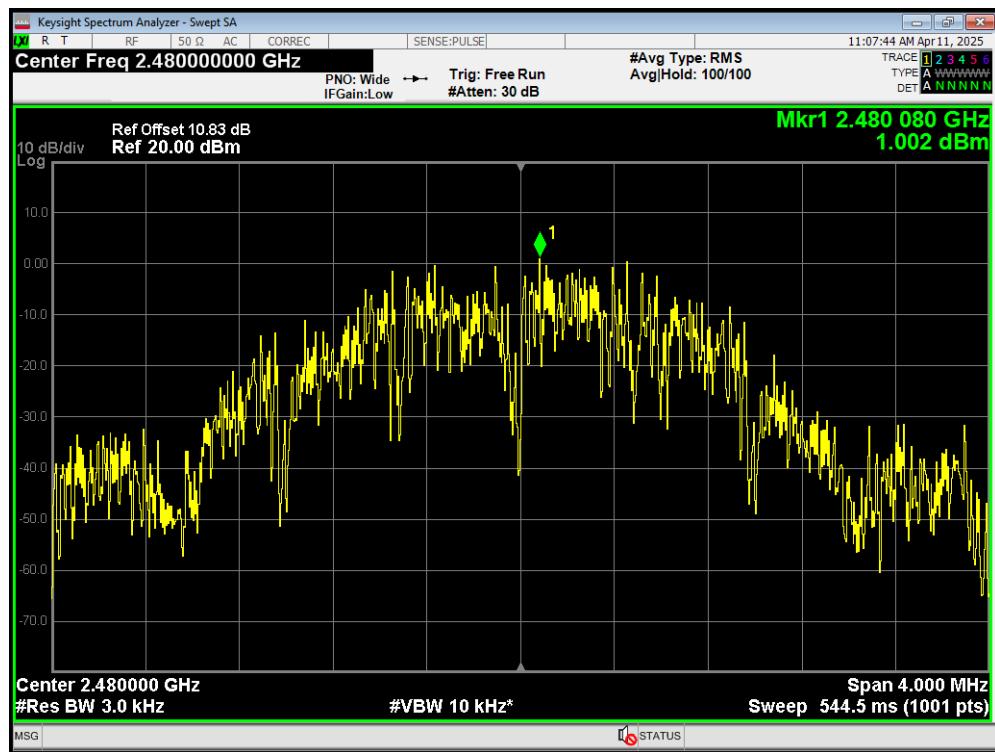
PSD Bluetooth LE(2M) 2440MHz

PSD Bluetooth LE(2M) 2480MHz


PSD Bluetooth LE(S=2) 2402MHz

PSD Bluetooth LE(S=2) 2440MHz


PSD Bluetooth LE(S=2) 2480MHz

PSD Bluetooth LE(S=8) 2402MHz


PSD Bluetooth LE(S=8) 2440MHz

PSD Bluetooth LE(S=8) 2480MHz


PSD Zigbee 2405MHz

PSD Zigbee 2440MHz


PSD Zigbee 2480MHz


5.5. Spurious RF Conducted Emissions

Ambient Condition

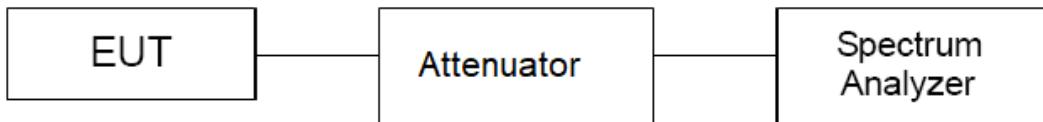
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to AUTO.

The test is in transmitting mode.

Test Setup



Limits

Rule Part 15.247(d) pacifies 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. "

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
Bluetooth (Low Energy) (1M)	2402	18.38	-11.62
	2440	18.59	-11.41
	2480	17.51	-12.49
Bluetooth (Low Energy) (2M)	2402	17.25	-12.75
	2440	17.70	-12.30
	2480	16.67	-13.33
Bluetooth (Low Energy) (S=2)	2402	18.93	-11.07
	2440	18.68	-11.32
	2480	17.75	-12.25

Bluetooth (Low Energy) (S=8)	2422	11.62	-18.38
	2437	11.38	-18.62
	2452	10.15	-19.85

Measurement Uncertainty

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

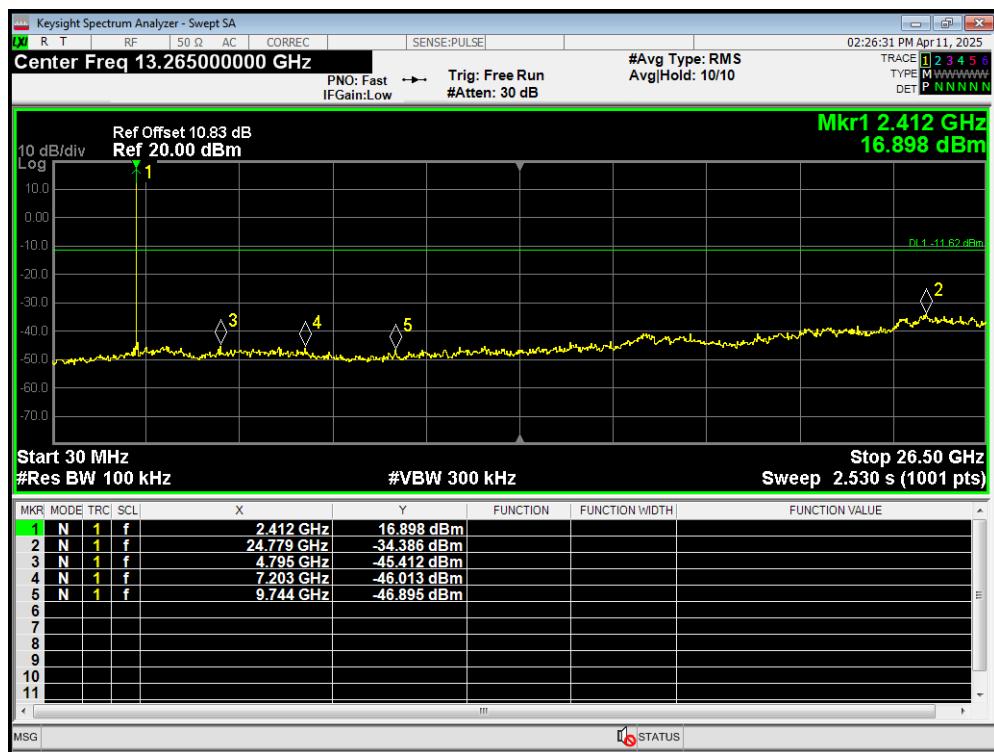
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

Test Results:

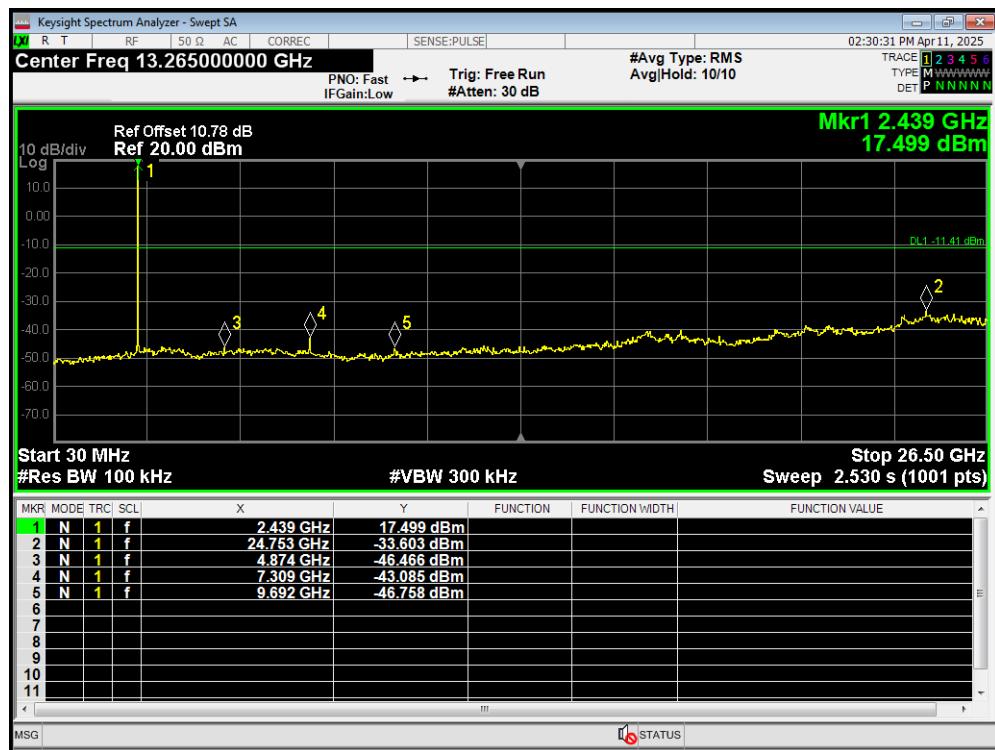
Tx. Spurious Bluetooth LE(1M) 2402MHz Ref



Tx. Spurious Bluetooth LE(1M) 2402MHz Emission



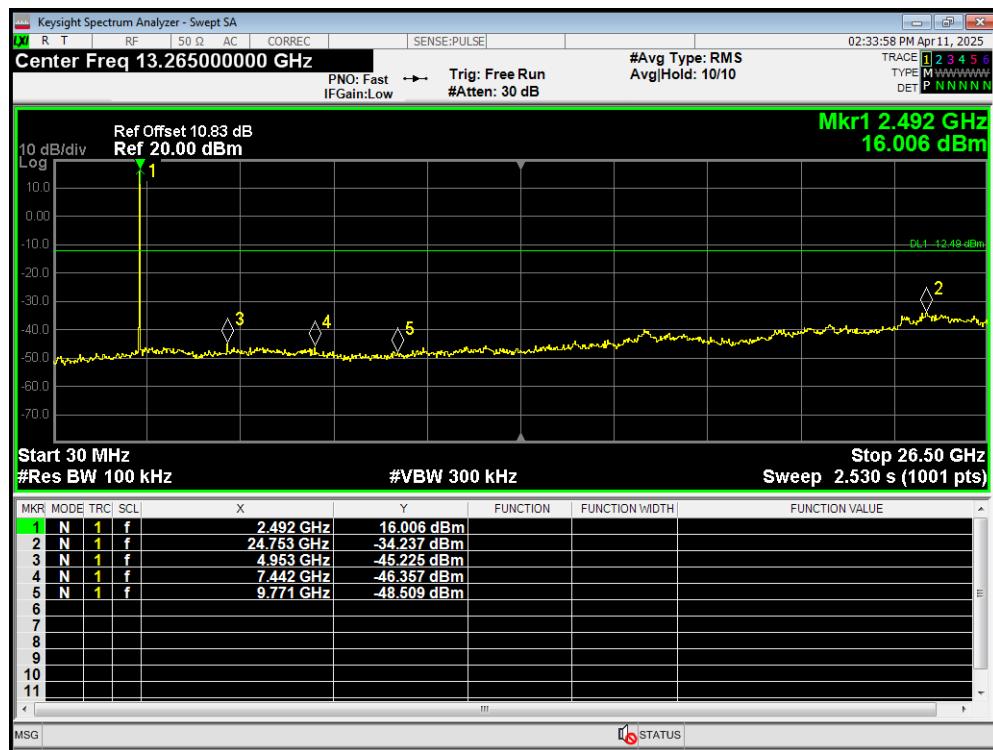
Tx. Spurious Bluetooth LE(1M) 2440MHz Ref

Tx. Spurious Bluetooth LE(1M) 2440MHz Emission


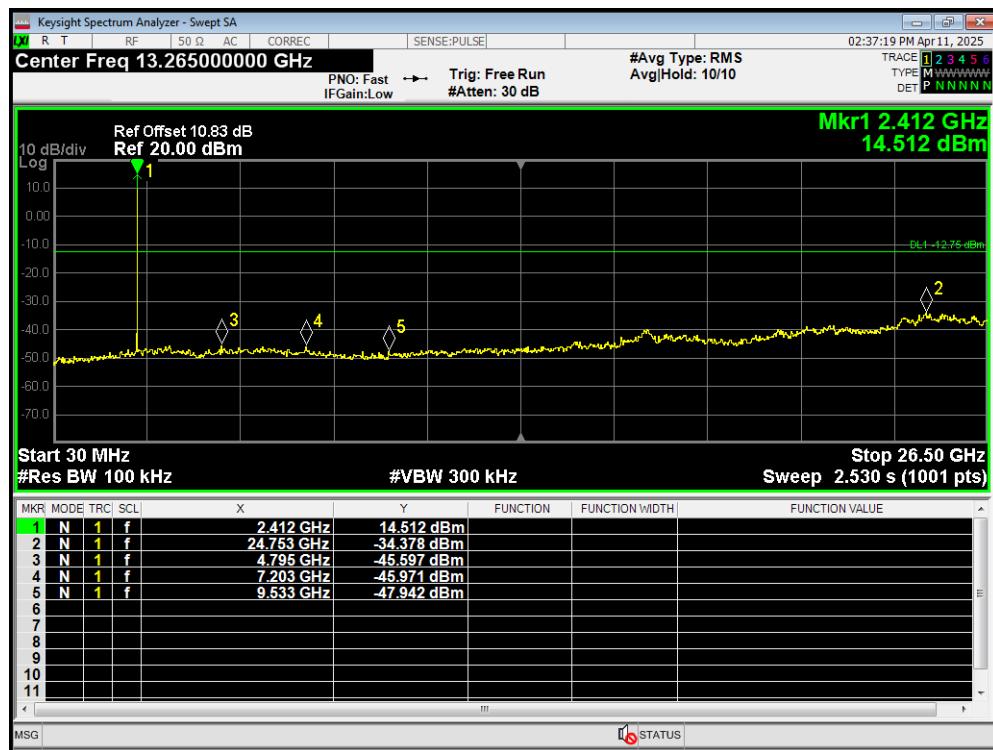
Tx. Spurious Bluetooth LE(1M) 2480MHz Ref



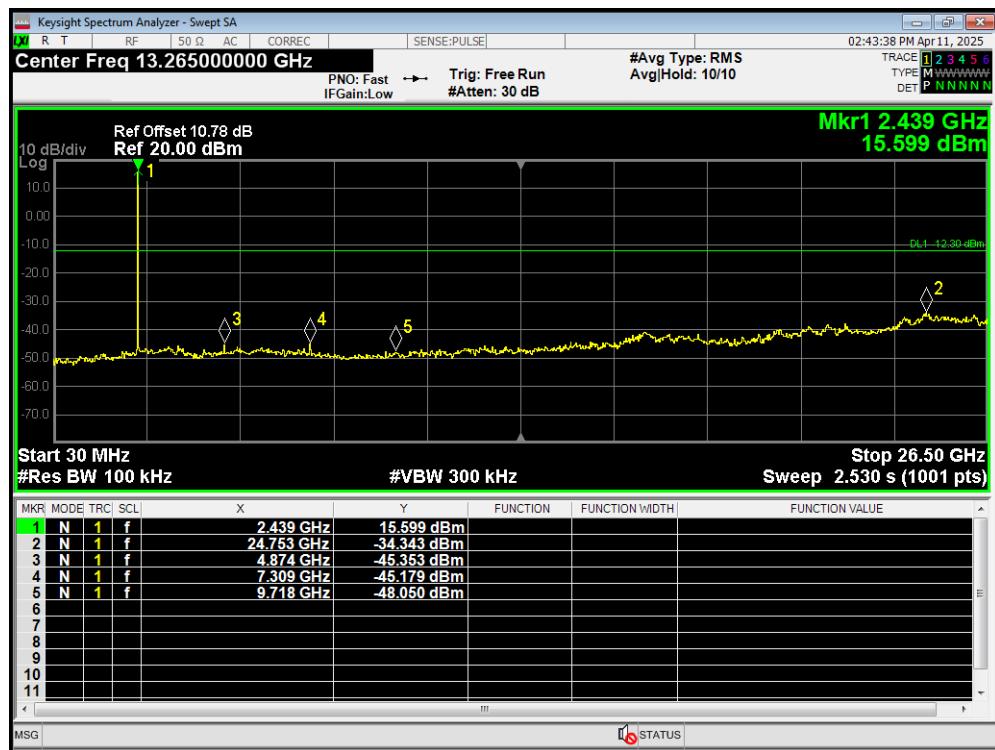
Tx. Spurious Bluetooth LE(1M) 2480MHz Emission



Tx. Spurious Bluetooth LE(2M) 2402MHz Ref

Tx. Spurious Bluetooth LE(2M) 2402MHz Emission


Tx. Spurious Bluetooth LE(2M) 2440MHz Ref

Tx. Spurious Bluetooth LE(2M) 2440MHz Emission


Tx. Spurious Bluetooth LE(2M) 2480MHz Ref

Tx. Spurious Bluetooth LE(2M) 2480MHz Emission
