

RF TEST REPORT

Applicant Samsung Electronics Co., Ltd.

FCC ID ZCASMA076M

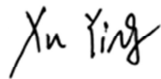
Product Multi-band GSM/WCDMA/LTE/5G NR
Mobile Phone with Bluetooth, WLAN

Model SM-A076M/DS; SM-A076M

Report No. EFTA25090192-IE-02-R3V4

Issue Date November 26, 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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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 17, 2025
Rev.1	Updated information.	November 24, 2025
Rev.2	Updated information.	November 25, 2025
Rev.3	Updated data.	November 26, 2025
Rev.4	Updated data.	November 26, 2025
Note: This revised report (Report No.: EFTA25090192-IE-02-R3V4) supersedes and replaces the previously issued report (Report No.: EFTA25090192-IE-02-R3V3). 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: September 29, 2025 ~ October 25, 2025			
Date of Sample Received: September 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

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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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Samsung Electronics Co., Ltd.
Applicant address	19 Chapin Rd., Building D Pine Brook, NJ 07058
Manufacturer	Samsung Electronics Co., Ltd.
Manufacturer address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

2.2. General Information

EUT Description		
Model	SM-A076M/DS; SM-A076M	
IMEI	Conducted	350252030016342
SN	Radiated	R7AY80GQMVL
Hardware Version	REV1.0	
Software Version	A076M.001	
Power Supply	Battery / AC adapter	
Antenna Type	Internal Antenna	
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)	
Antenna Gain	-5.10 dBi	
Additional Beamforming Gain	NA	
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz Bluetooth LE V5.3: 2402 ~2480 MHz	
Modulation Type	802.11b: DSSS 802.11g/n: OFDM Bluetooth LE: GFSK	
Max. Output Power	Wi-Fi 2.4GHz: 23.03 dBm Bluetooth LE: 5.92 dBm	
Operating voltage range	3.88 Vdc to 4.50 Vdc	
State voltage	3.60 Vdc	
EUT Accessory		
Adapter 1	Manufacturer: RFTECH THAI NGUYEN CO., LTD Model: EP-T2510EBE	
Adapter 2	Manufacturer: RFTECH THAI NGUYEN CO., LTD Model: EP-TA200(EWE)	
Adapter 3	Manufacturer: Salcomp Industrial Eletrônica da Amazônia LTDA Model: EP-TA200B	
Adapter 4	Manufacturer: Haem vina Co., Ltd Model: EP-T1510	
Battery 1	Manufacturer: Ningde Amperex Technology Limited	

	Model: LC-196
Battery 2	Manufacturer: Sunwoda Electronic CO.,LTD. Model: LC-196
USB Cable 1	Manufacturer: VietNam Broad Telecommunication Co., Ltd. Model: EP-DR140AWE
USB Cable 2	Manufacturer: CRESYN ELLECTRONICS(DONGGUAN)CO., LTD. Model: EP-DR140AWE
USB Cable 3	Manufacturer: VietNam Broad Telecommunication Co., Ltd. Model: EP-DN980BWE
USB Cable 4	Manufacturer: CRESYN ELLECTRONICS(DONGGUAN)CO., LTD. Model: EP-DN980BWE
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. The customer declares that SM-A076M/DS and SM-A076M are the same except for different model names and SM-A076M/DS is dual-card and SM-A076M is single-card, This report only tests SM-A076M/DS.	

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 C63.10-2020

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.

The test software is used Engineering mode.

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
802.11b	11Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

5. Test Case

5.1. Maximum output power

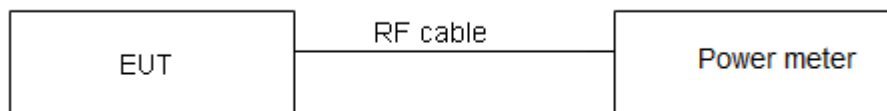
Ambient Condition

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."

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.

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

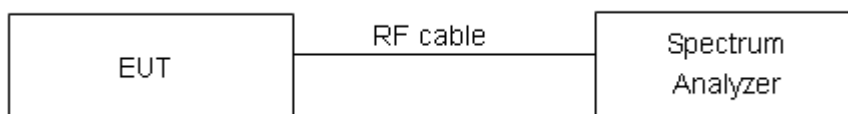
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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. Detector=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.

5.3. Band Edge

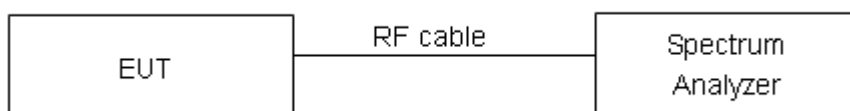
Ambient Condition

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

5.4. Power Spectral Density

Ambient Condition

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

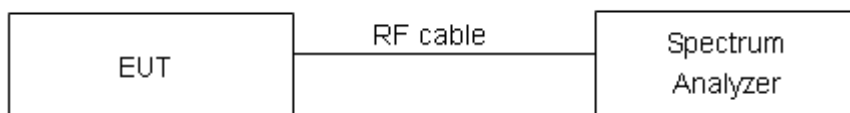
Method of Measurement

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.

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- weep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

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 $k = 2$, $U = 0.75\text{dB}$.

5.5. Spurious RF Conducted Emissions

Ambient Condition

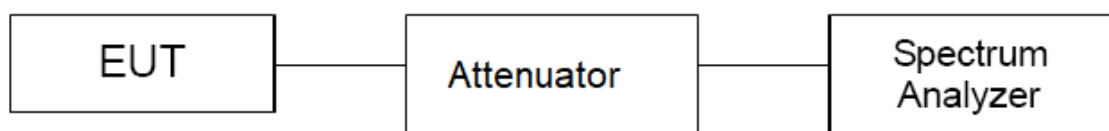
Temperature	Relative humidity
15°C ~ 35°C	20% ~ 80%

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) 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."

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	8.09	-11.91
	2437	8.81	-11.19
	2462	8.87	-11.13
802.11g	2412	5.69	-14.31
	2437	4.76	-15.24
	2462	4.74	-15.26
802.11n HT20	2412	3.78	-16.22
	2437	6.53	-13.47
	2462	6.40	-13.60

Bluetooth (Low Energy) (1M)	2402	4.40	-15.60
	2440	5.43	-14.57
	2480	4.96	-15.04
Bluetooth (Low Energy) (2M)	2404	4.51	-15.49
	2440	4.41	-15.59
	2478	2.57	-17.43
Bluetooth (Low Energy) (S=2)	2402	4.85	-15.15
	2440	5.84	-14.16
	2480	4.95	-15.05
Bluetooth (Low Energy) (S=8)	2402	1.53	-18.47
	2440	2.65	-17.35
	2480	2.19	-17.81

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

5.6. Unwanted Emission

Ambient Condition

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

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m/10m below 1GHz, 3m above 1GHz between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage

averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

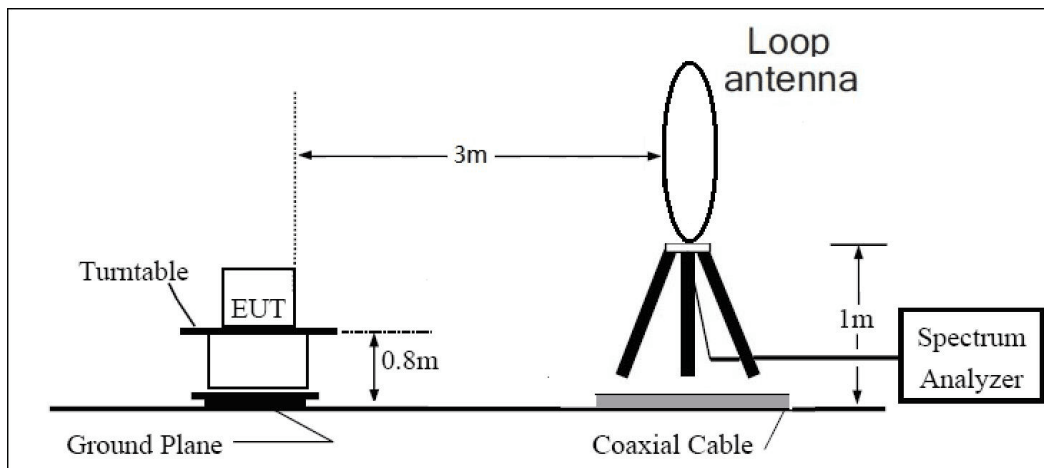
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

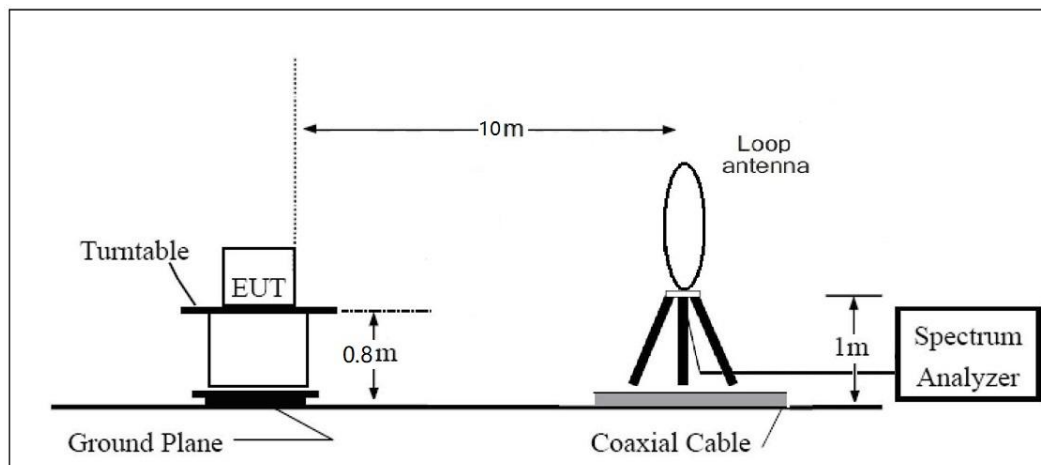
Test Setup

9kHz~ 30MHz



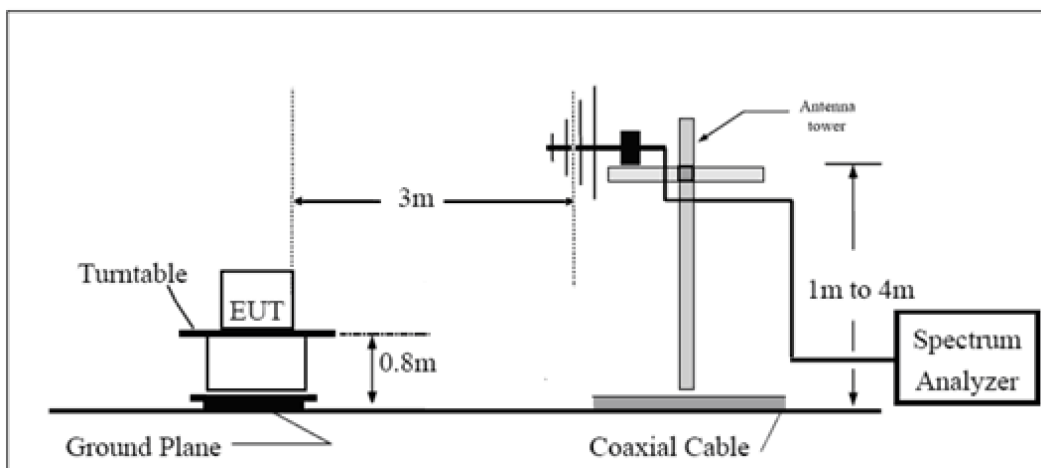
Note: Area side:2.4mX3.6m

Distance 10m



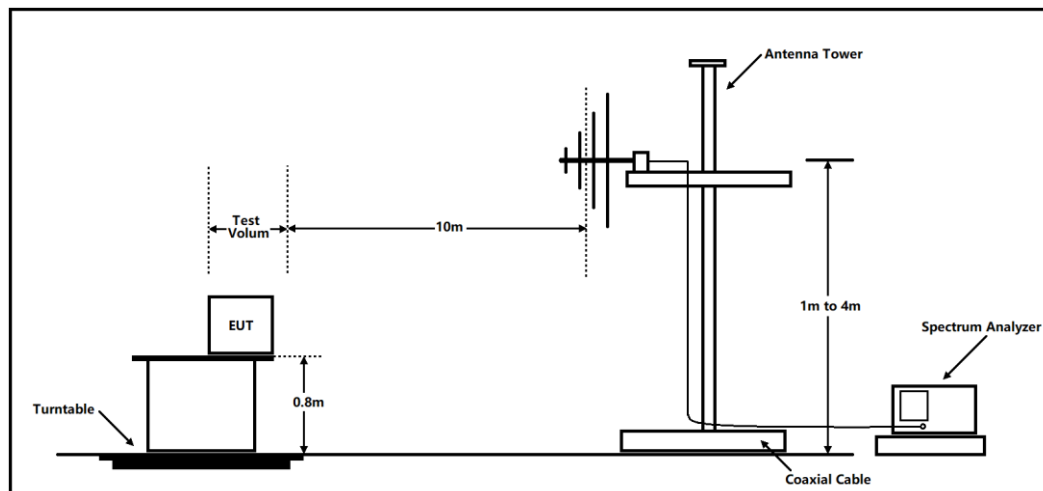
Note: Area side: 21m x 12m

30MHz~ 1GHz



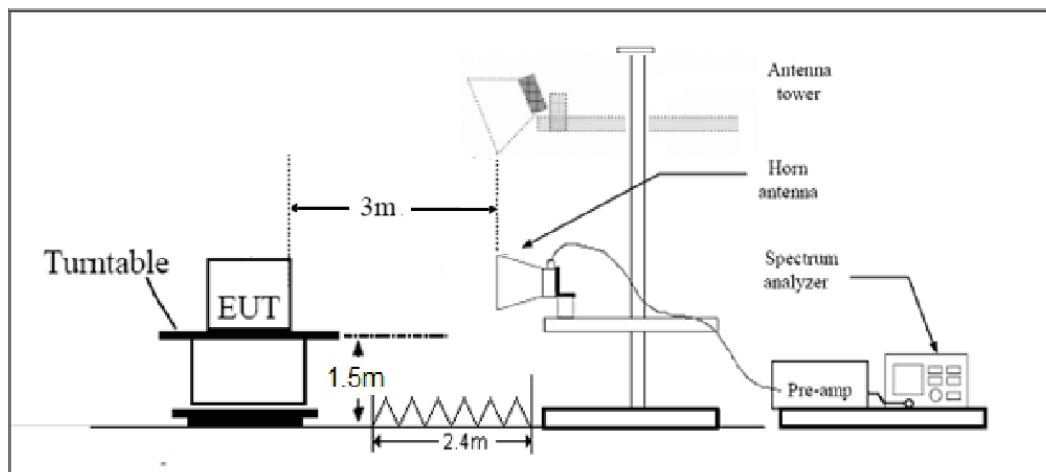
Note: Area side:2.4mX3.6m

Distance 10m



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side:2.4mX3.6m

Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength (μV/m)	Field strength (dBμV/m) @ 3 m	Field strength (dBμV/m) @ 10 m
0.009–0.490	2400/F(kHz)	/	/
0.490–1.705	24000/F(kHz)	/	/
1.705–30.0	30	/	/
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960 -1000	500	54	44
Above 1000	500	54	--

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBμV/m

Average Limit=54 dBμV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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 for 3m
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB
Frequency	Uncertainty for 10m
30MHz – 200MHz	3.39 dB
200MHz – 1GHz	3.82 dB
1GHz – 18GHz	6.51 dB
18GHz – 40GHz	6.31 dB

5.7. Conducted Emission

Ambient Condition

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

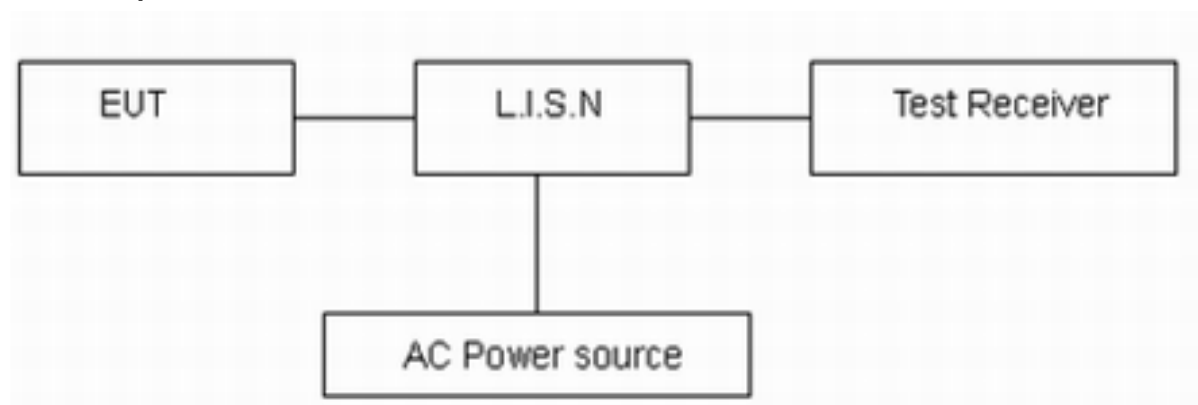
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

6. Test Results

6.1. Maximum output power

Test Mode	Carrier frequency (MHz)/ Channel	Date Rate	Power Index
802.11b	1/2412	1M	18
		2M	18
		5.5M	18
		11M	18
	6/2437	11M	18
	11/2462	11M	18
802.11g	1/2412	6M	17
		9M	17
		12M	16.5
		18M	16.5
		24M	16
		36M	16
		48M	15.5
		54M	15
	6/2437	6M	17
	11/2462	6M	17
802.11n HT20	1/2412	MCS0	17
		MCS1	16.5
		MCS2	16
		MCS3	15.5
		MCS4	15
		MCS5	14.5
		MCS6	14
		MCS7	14
	6/2437	MCS0	17
	11/2462	MCS0	17

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

Test Mode	Carrier frequency (MHz)/ Channel	Data Rate	Peak Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH 1	1M	20.28	30	PASS
		2M	20.47	30	PASS
		5.5M	21.79	30	PASS
		11M	22.67	30	PASS
	2437/CH 6	11M	23.03	30	PASS
	2462/CH11	11M	22.98	30	PASS
802.11g	2412/CH 1	6M	22.78	30	PASS
		9M	22.70	30	PASS
		12M	22.16	30	PASS
		18M	22.15	30	PASS
		24M	21.97	30	PASS
		36M	21.56	30	PASS
		48M	21.05	30	PASS
		54M	20.51	30	PASS
	2437/CH 6	6M	22.84	30	PASS
	2462/CH11	6M	22.72	30	PASS
802.11n HT20	2412/CH 1	MCS0	22.51	30	PASS
		MCS1	21.97	30	PASS
		MCS2	21.46	30	PASS
		MCS3	21.28	30	PASS
		MCS4	20.45	30	PASS
		MCS5	19.94	30	PASS
		MCS6	19.28	30	PASS
		MCS7	19.24	30	PASS
	2437/CH 6	MCS0	22.69	30	PASS
	2462/CH11	MCS0	22.58	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

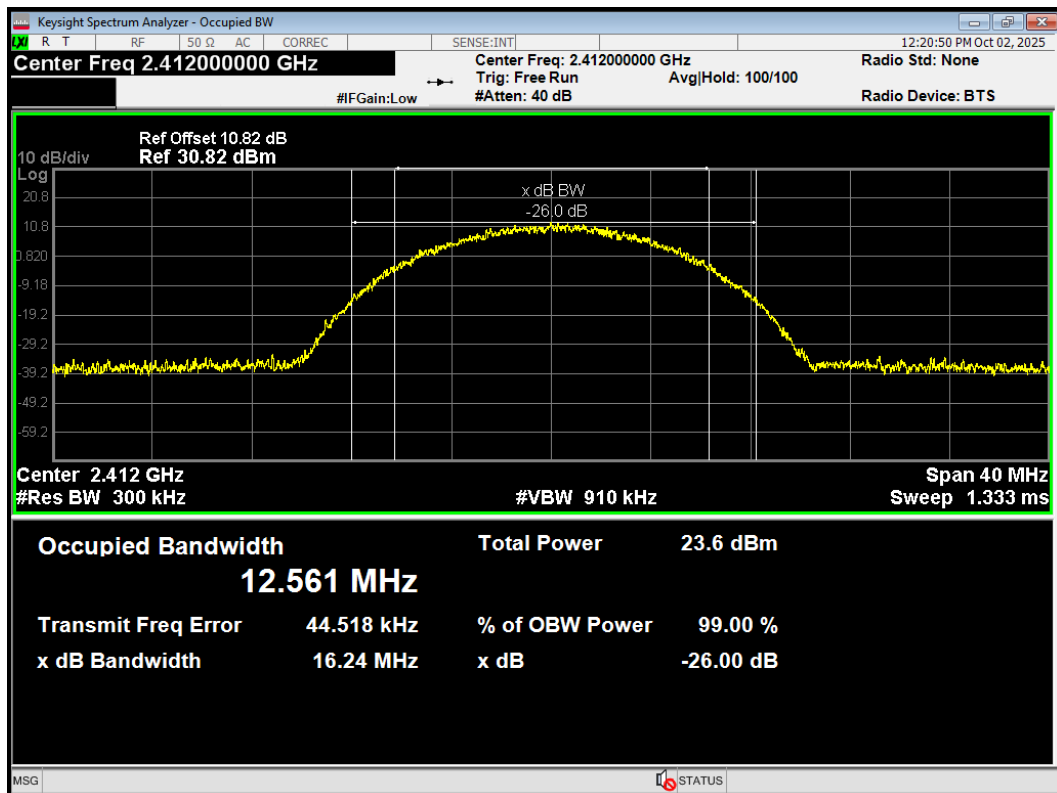
Test Mode	Carrier frequency (MHz)/ Channel	Peak Output Power (dBm)	Limit (dBm)	Conclusion
Bluetooth (Low Energy) (1M)	2402/CH0	4.88	30	PASS
	2440/CH19	5.70	30	PASS
	2480/CH39	5.51	30	PASS
Bluetooth (Low Energy) (2M)	2404/CH1	5.12	30	PASS
	2440/CH19	5.87	30	PASS
	2478/CH38	5.52	30	PASS
Bluetooth (Low Energy) (S=2)	2402/CH0	4.86	30	PASS
	2440/CH19	5.92	30	PASS
	2480/CH39	5.33	30	PASS
Bluetooth (Low Energy) (S=8)	2402/CH0	4.81	30	PASS
	2440/CH19	5.82	30	PASS
	2480/CH39	5.38	30	PASS

6.2. 99% Bandwidth and 6dB Bandwidth

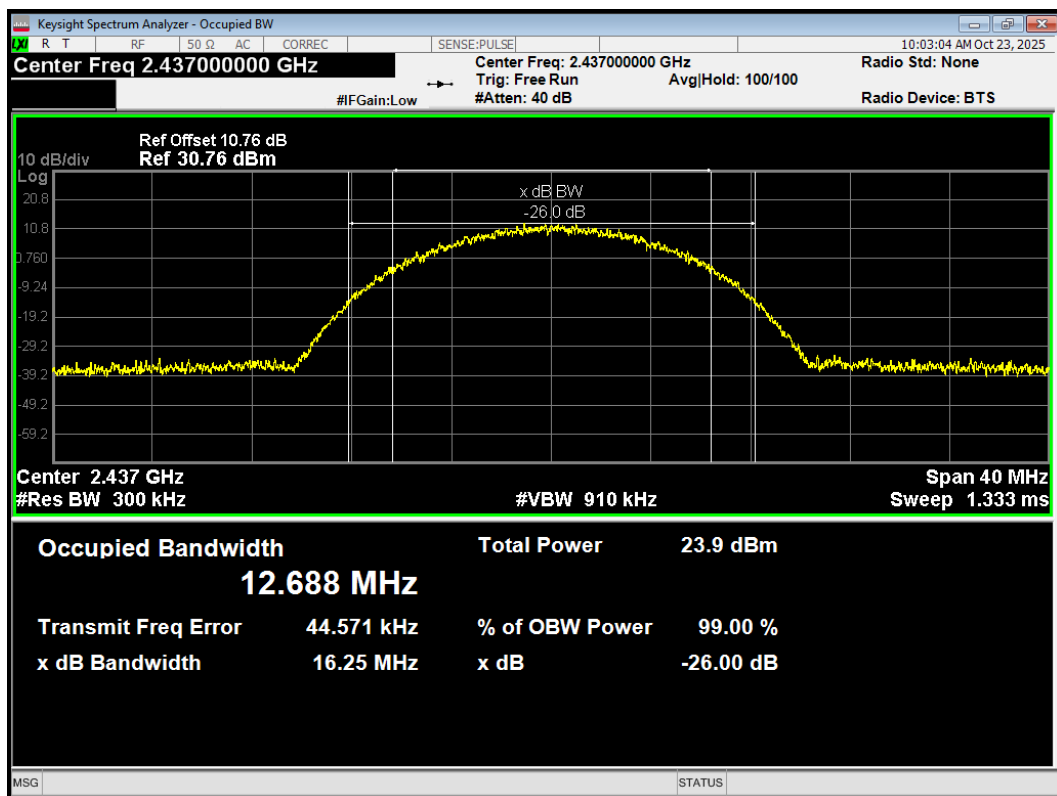
Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	12.561	8.123	500	PASS
	2437	12.688	7.866	500	PASS
	2462	12.617	7.390	500	PASS
802.11g	2412	16.613	16.097	500	PASS
	2437	16.640	16.164	500	PASS
	2462	16.608	16.165	500	PASS
802.11n HT20	2412	17.675	17.044	500	PASS
	2437	17.723	17.297	500	PASS
	2462	17.674	17.389	500	PASS
Bluetooth (Low Energy) (1M)	2402	1.043	0.697	500	PASS
	2440	1.041	0.698	500	PASS
	2480	1.036	0.689	500	PASS
Bluetooth (Low Energy) (2M)	2404	2.087	1.110	500	PASS
	2440	2.093	1.128	500	PASS
	2478	2.094	1.242	500	PASS
Bluetooth (Low Energy) (S=2)	2402	1.032	0.679	500	PASS
	2440	1.026	0.653	500	PASS
	2480	1.029	0.665	500	PASS
Bluetooth (Low Energy) (S=8)	2402	1.060	0.698	500	PASS
	2440	1.057	0.696	500	PASS
	2480	1.057	0.687	500	PASS

99%bandwidth

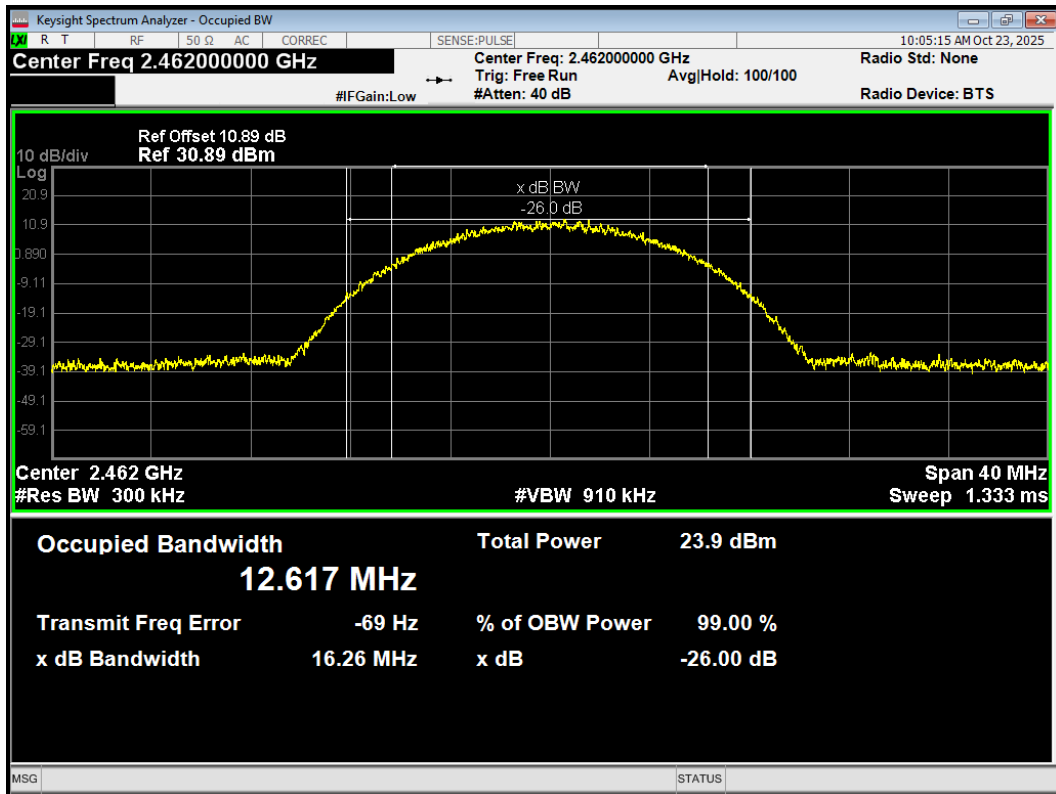
OBW 802.11b 2412MHz



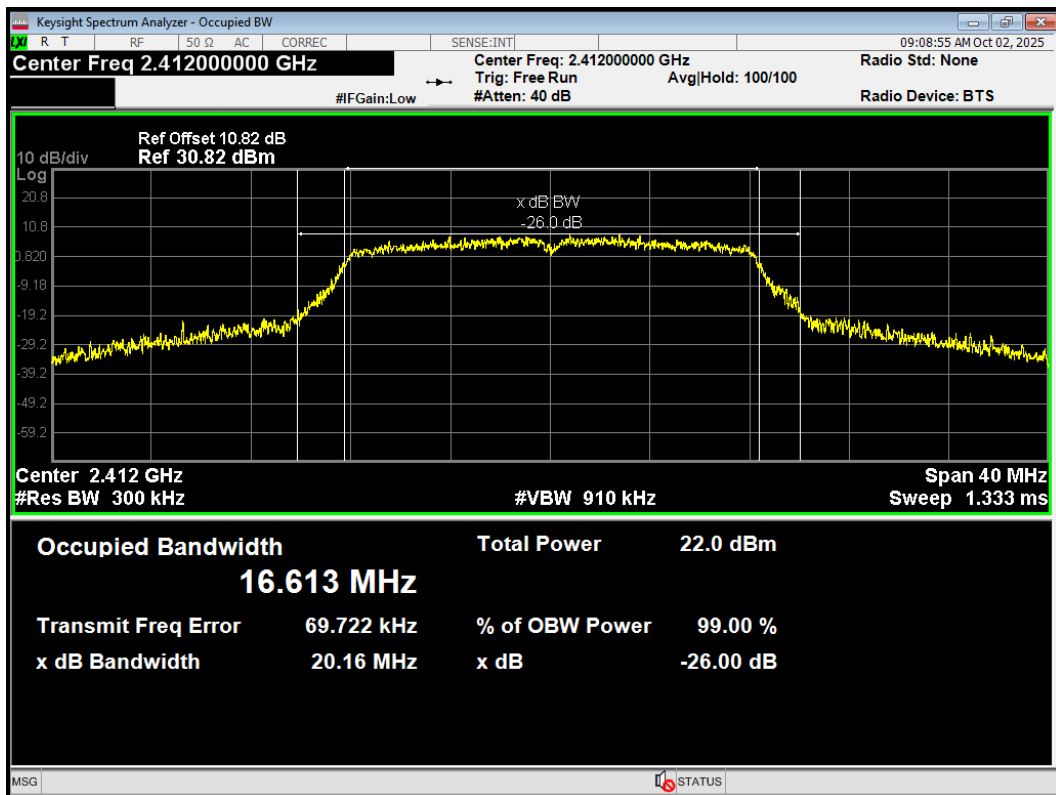
OBW 802.11b 2437MHz



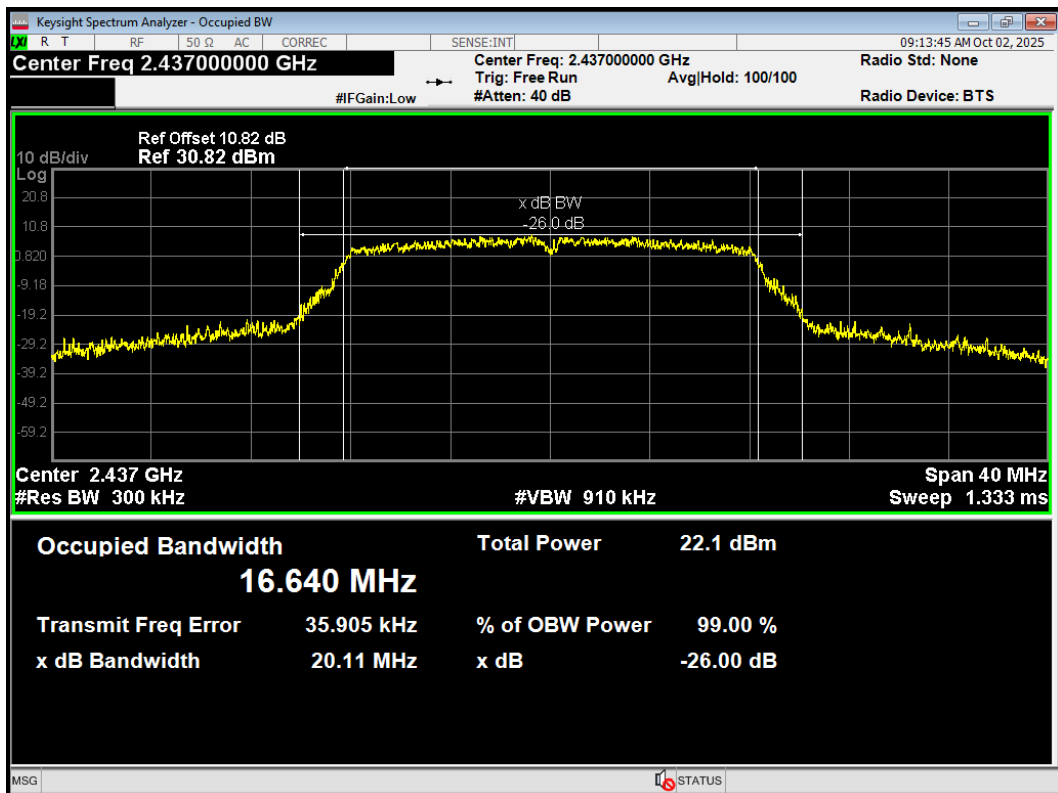
OBW 802.11b 2462MHz



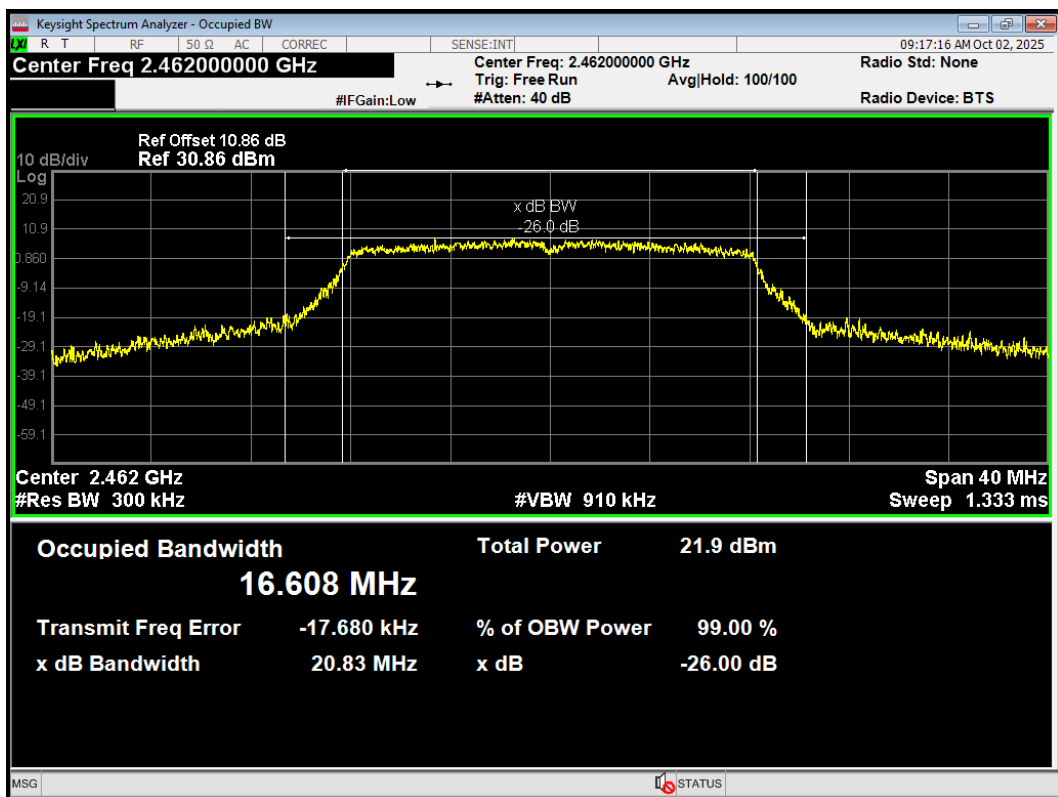
OBW 802.11g 2412MHz



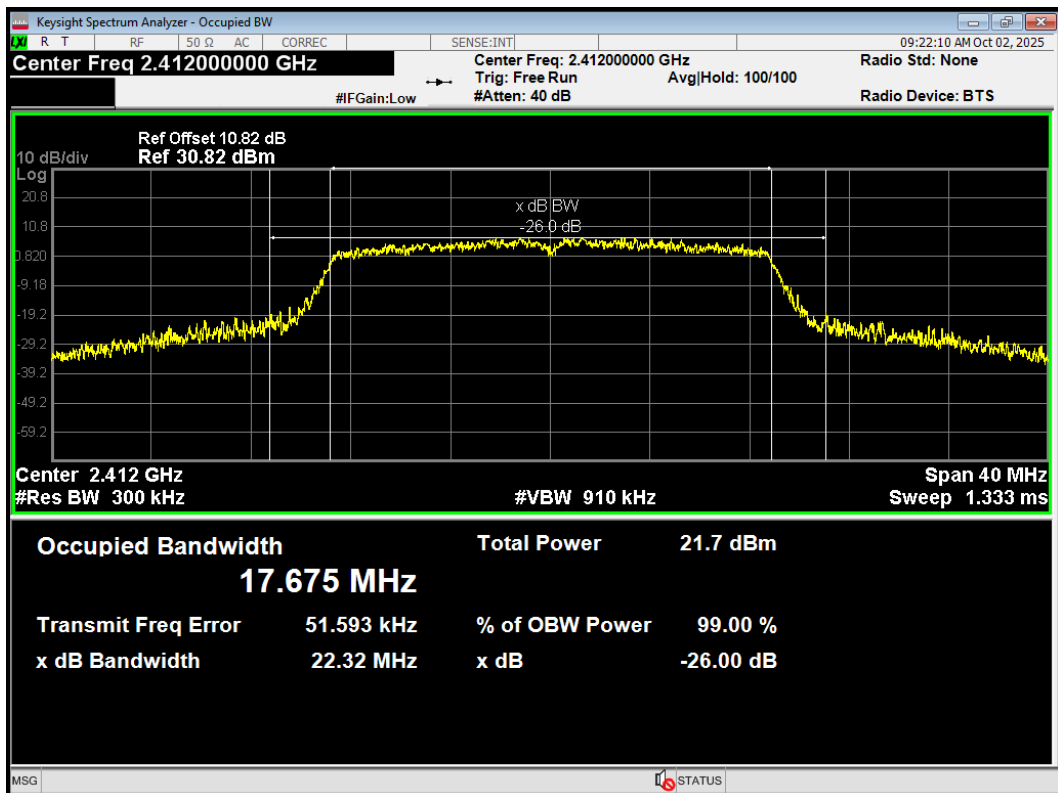
OBW 802.11g 2437MHz



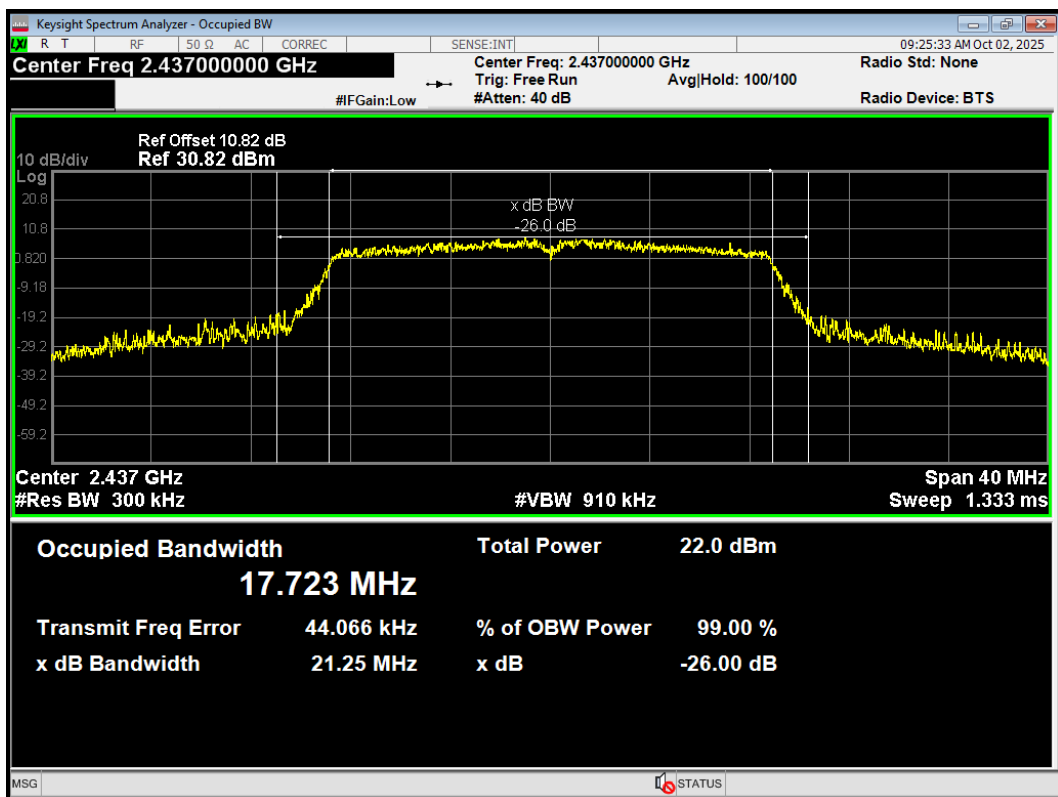
OBW 802.11g 2462MHz



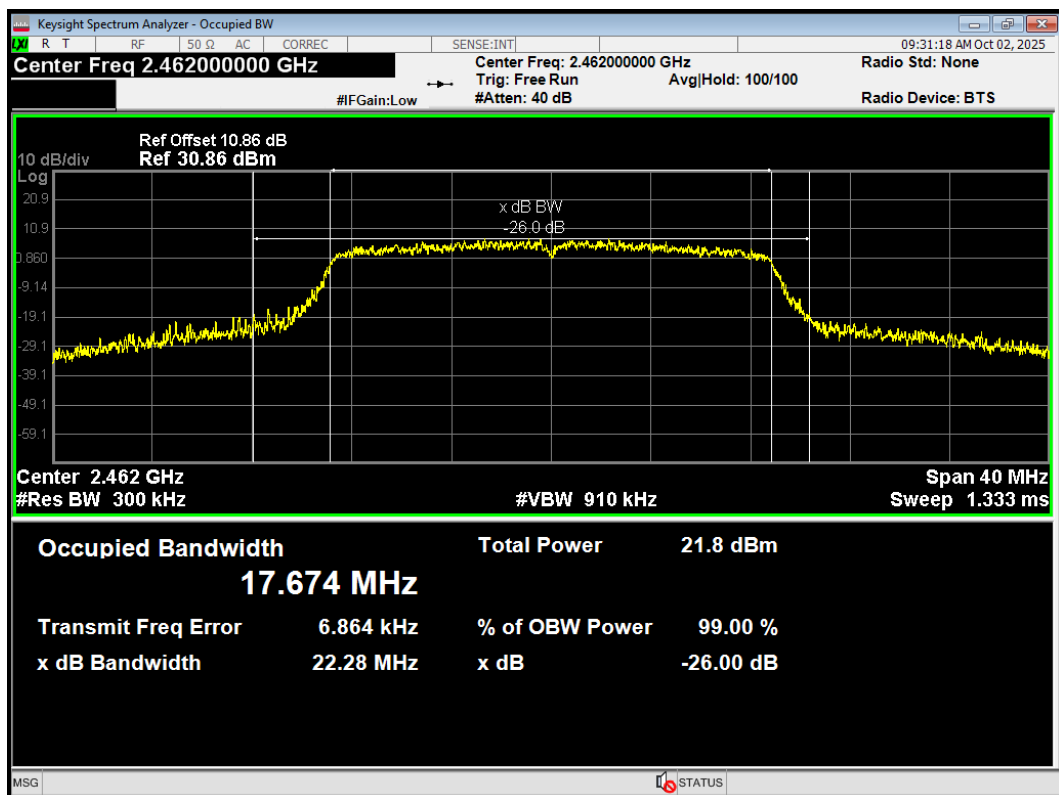
OBW 802.11n(HT20) 2412MHz



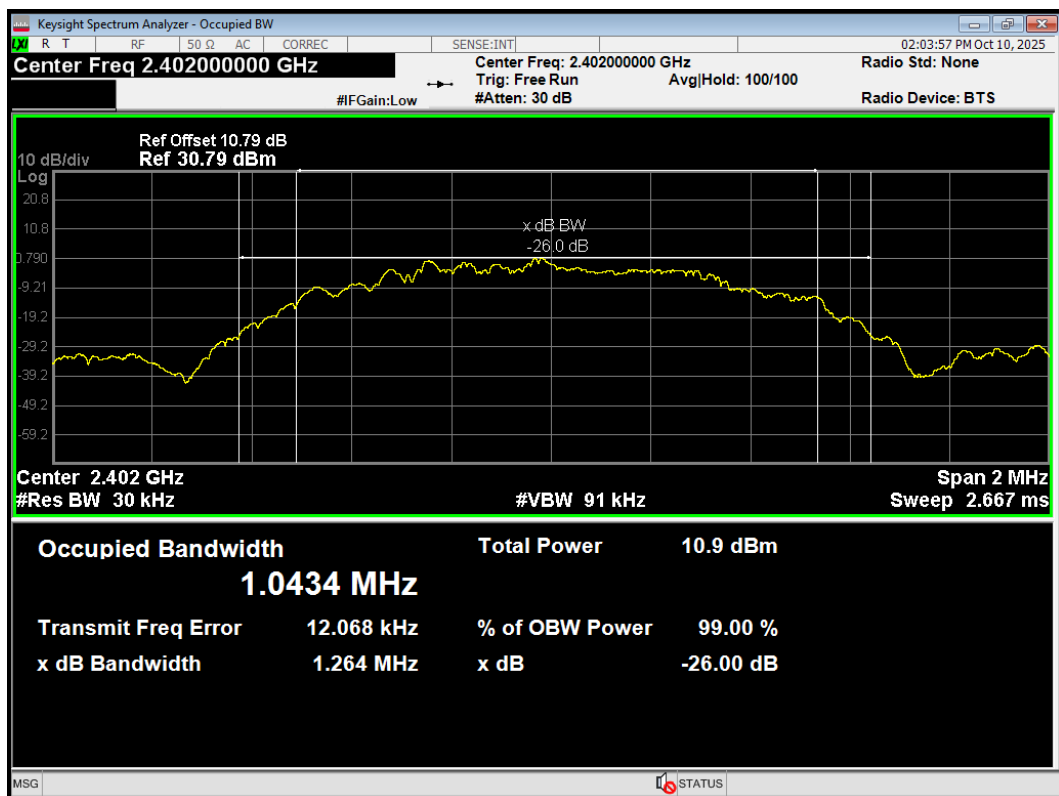
OBW 802.11n(HT20) 2437MHz



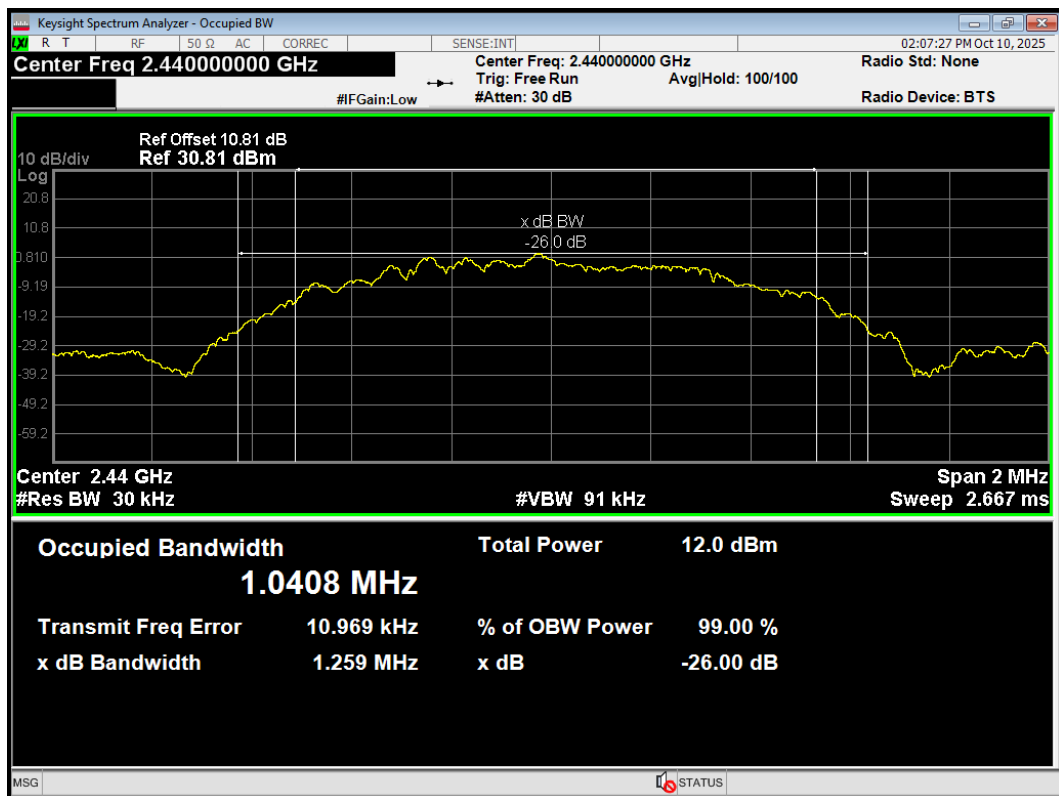
OBW 802.11n(HT20) 2462MHz



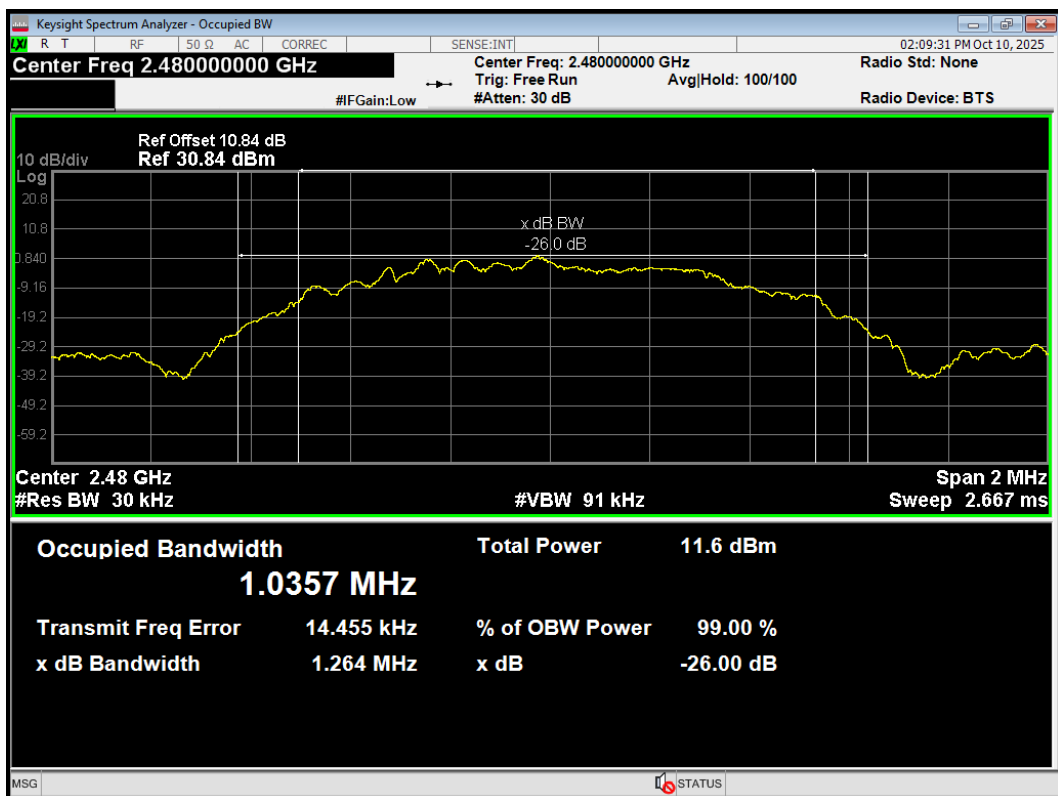
OBW BLE (1M) 2402MHz



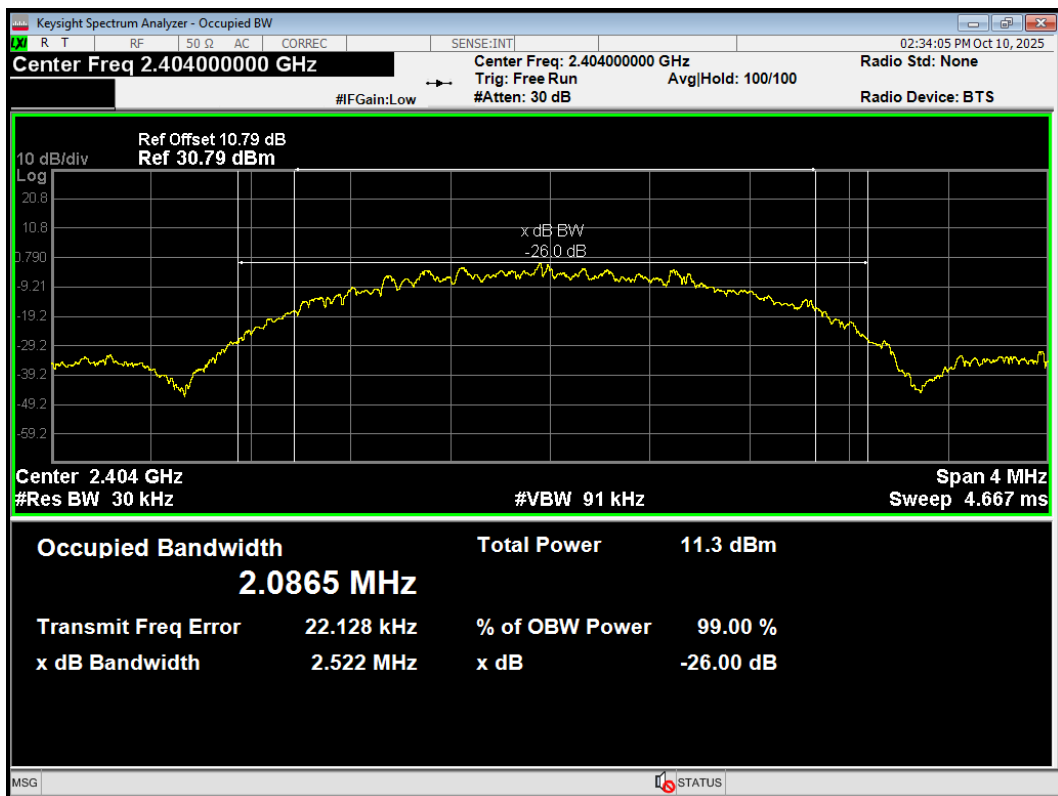
OBW BLE (1M) 2440MHz



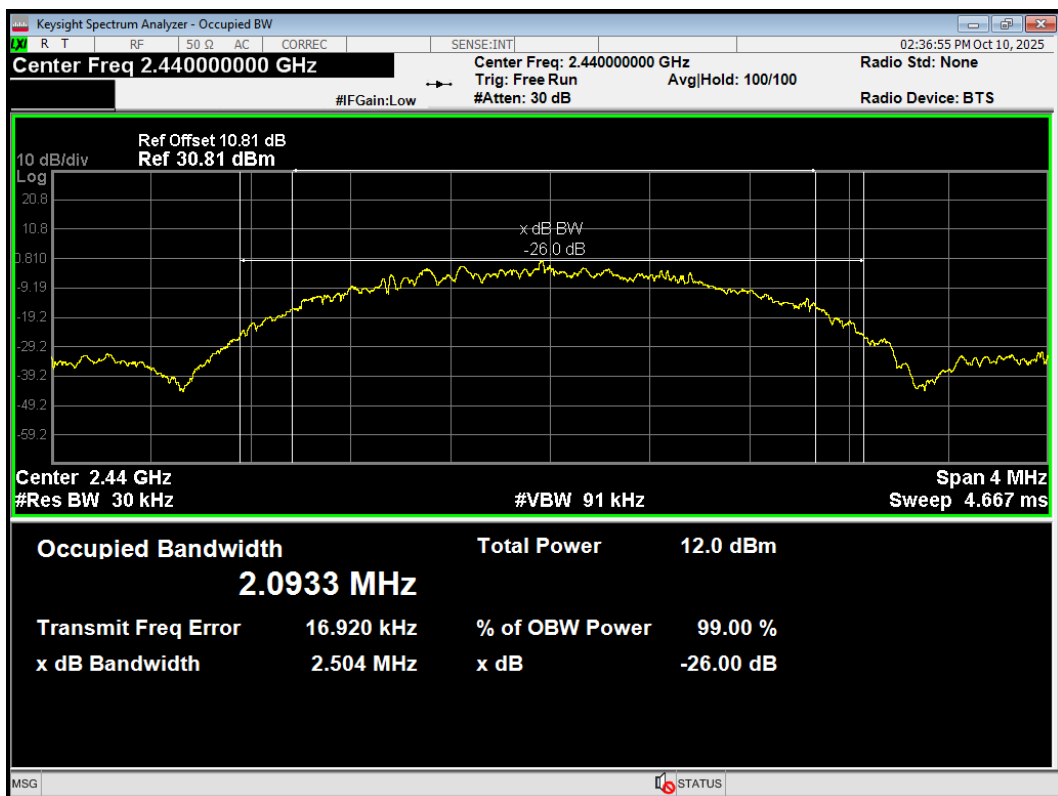
OBW BLE (1M) 2480MHz



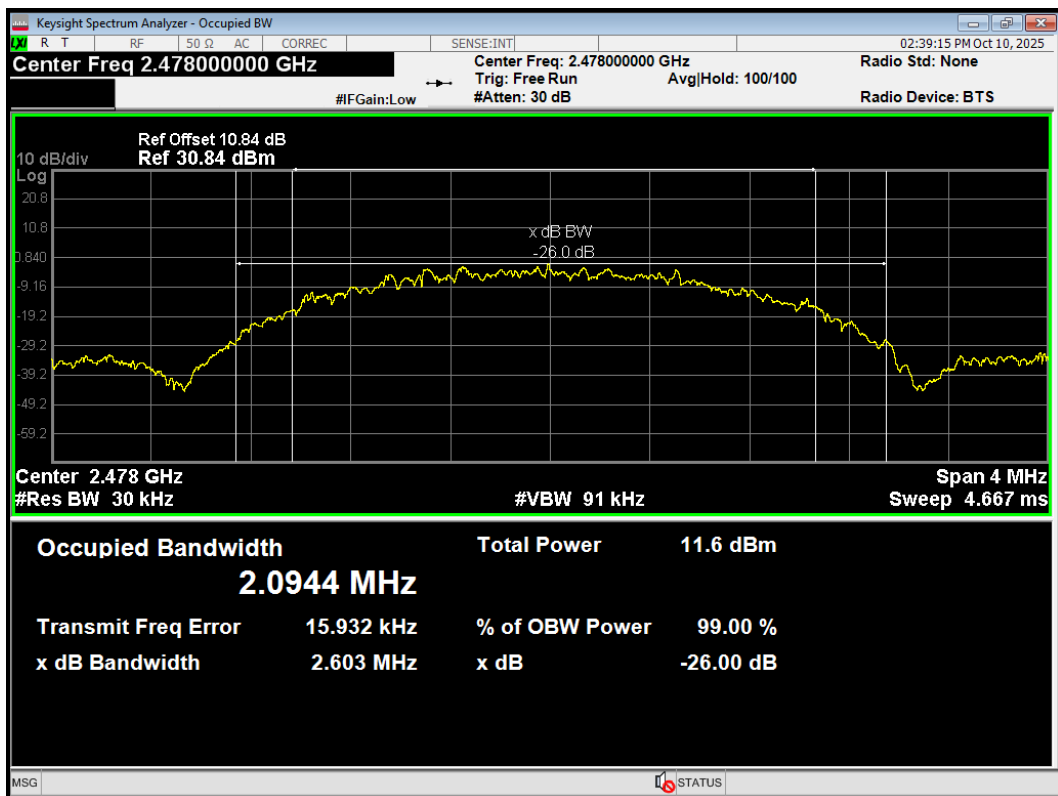
OBW BLE (2M) 2404MHz



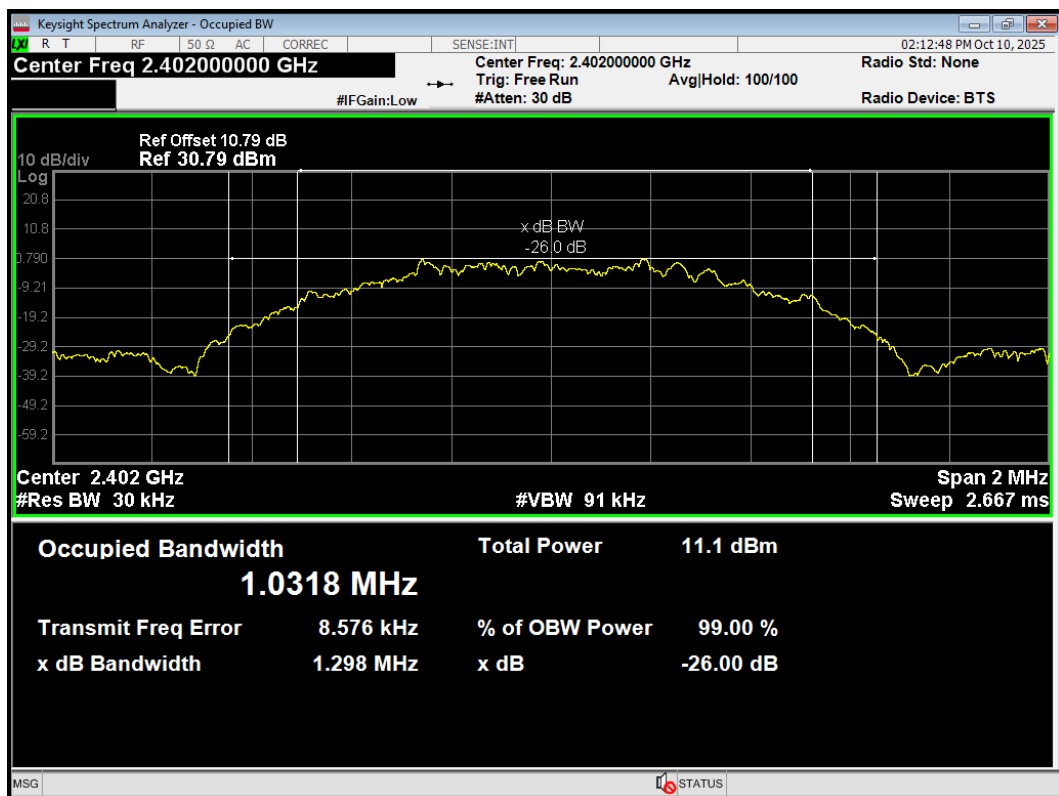
OBW BLE (2M) 2440MHz



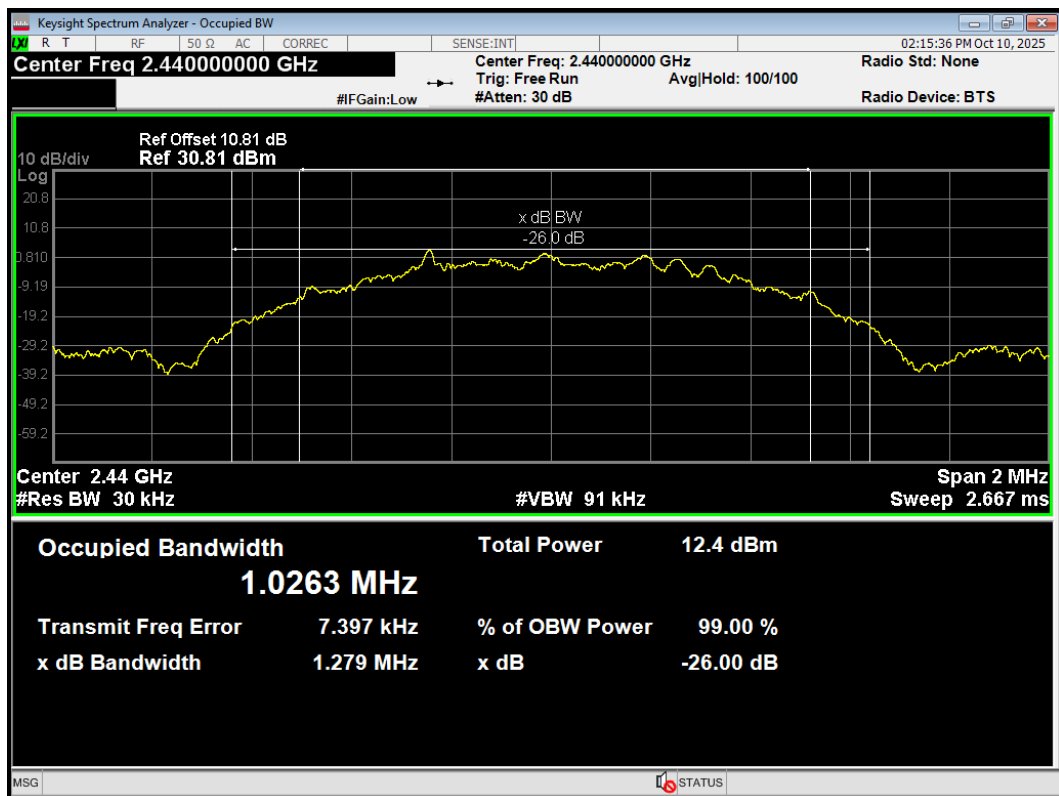
OBW BLE (2M) 2478MHz



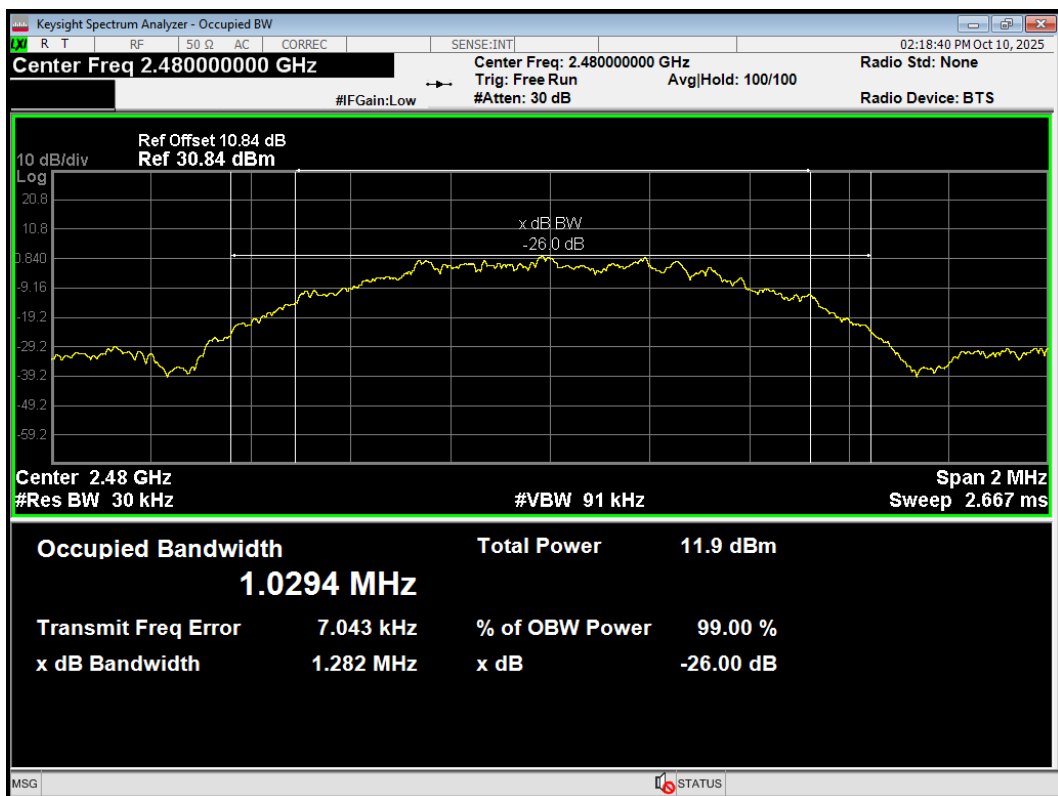
OBW BLE (S=2) 2402MHz



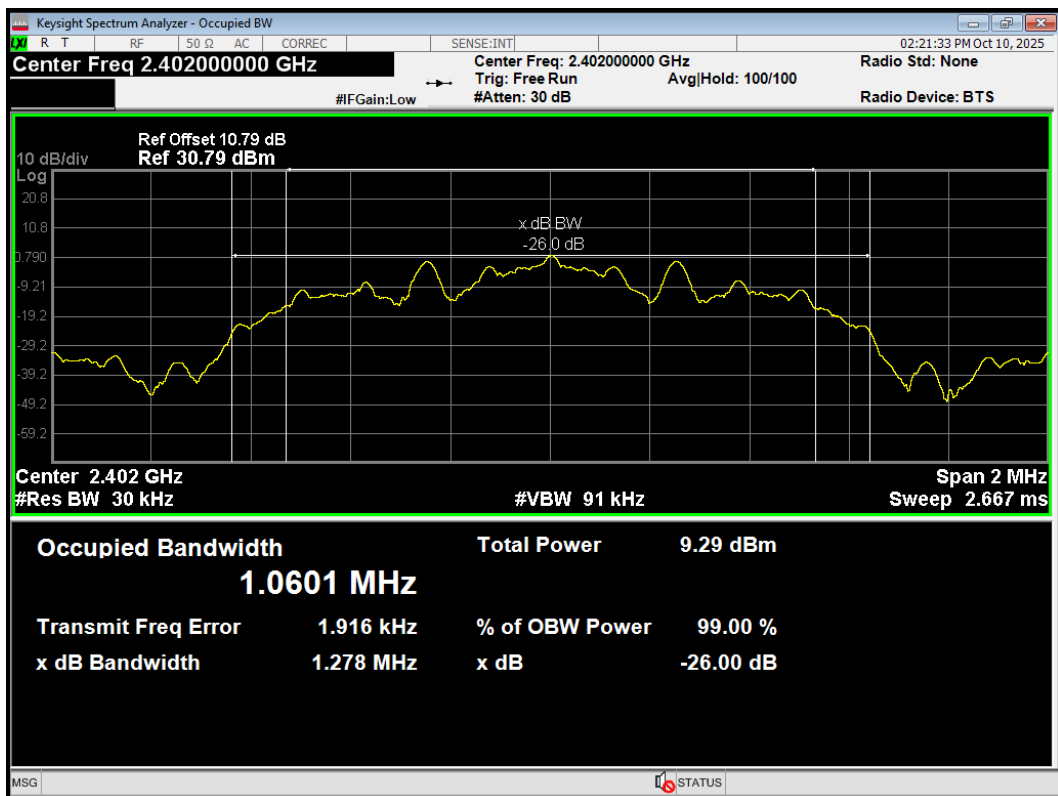
OBW BLE (S=2) 2440MHz



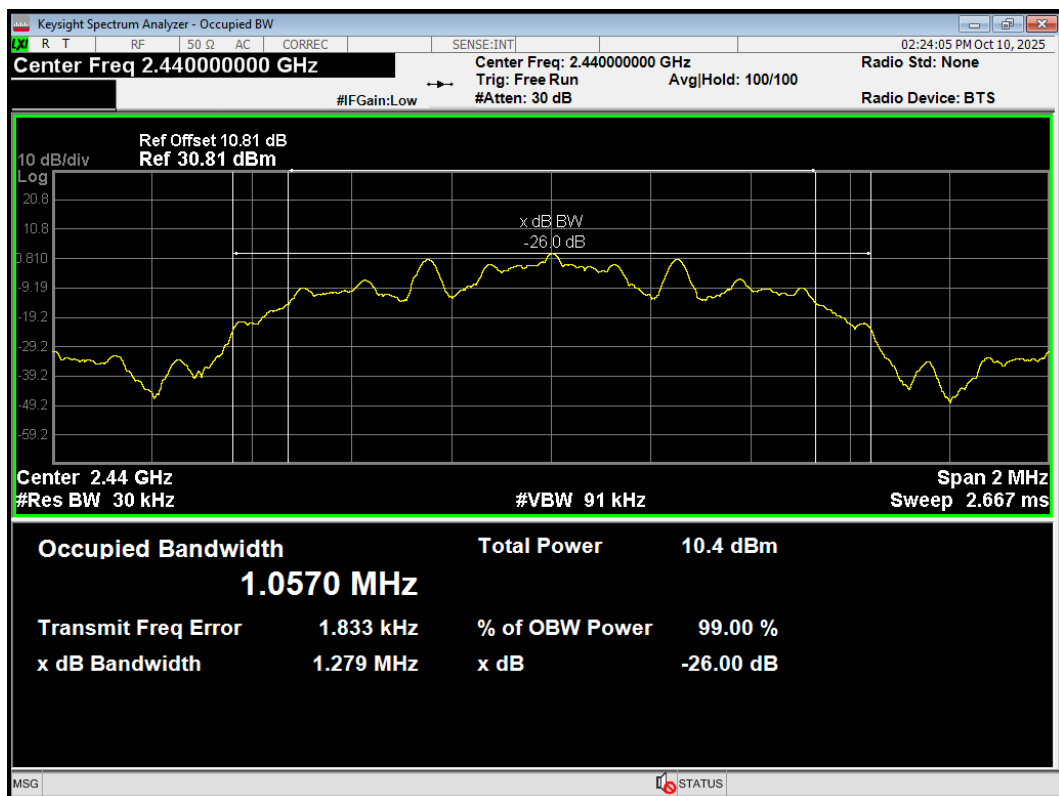
OBW BLE (S=2) 2480MHz



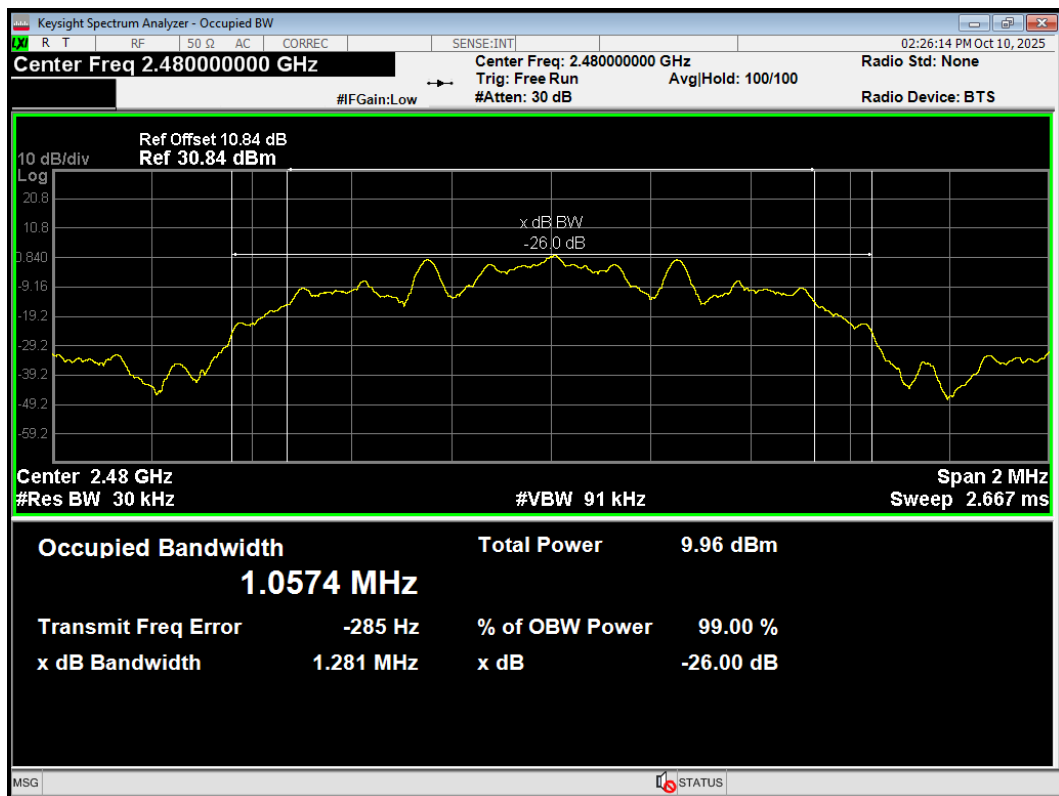
OBW BLE (S=8) 2402MHz



OBW BLE (S=8) 2440MHz

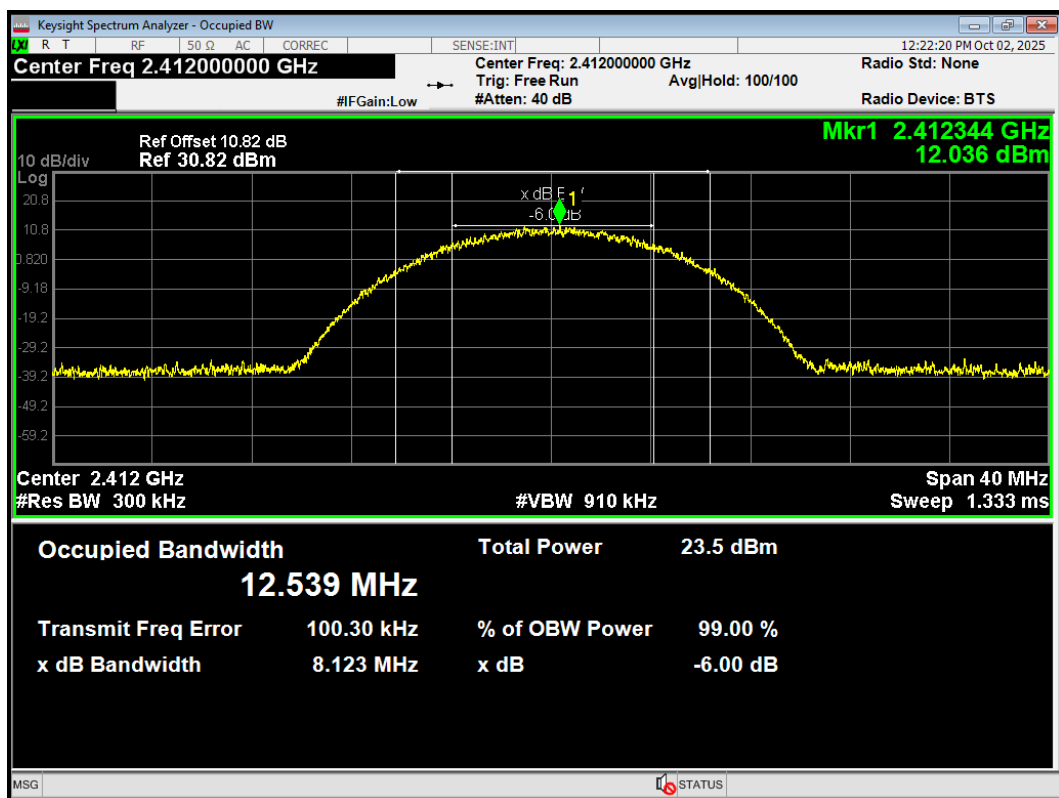


OBW BLE (S=8) 2480MHz

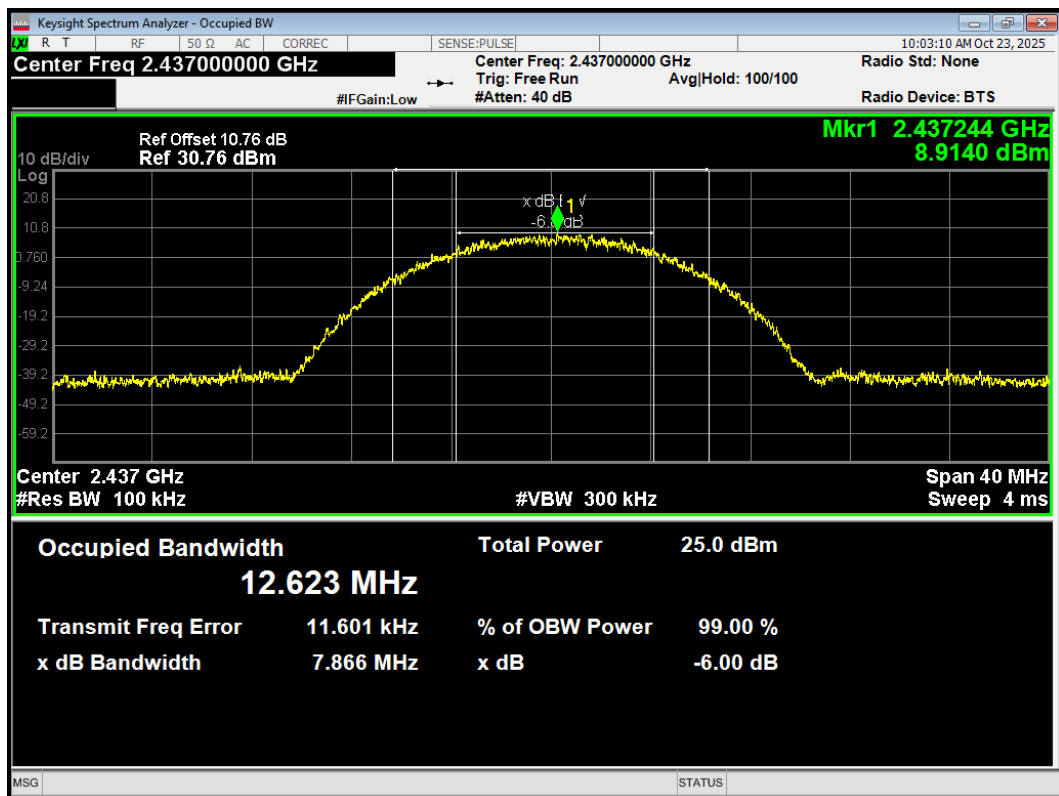


6 dB bandwidth

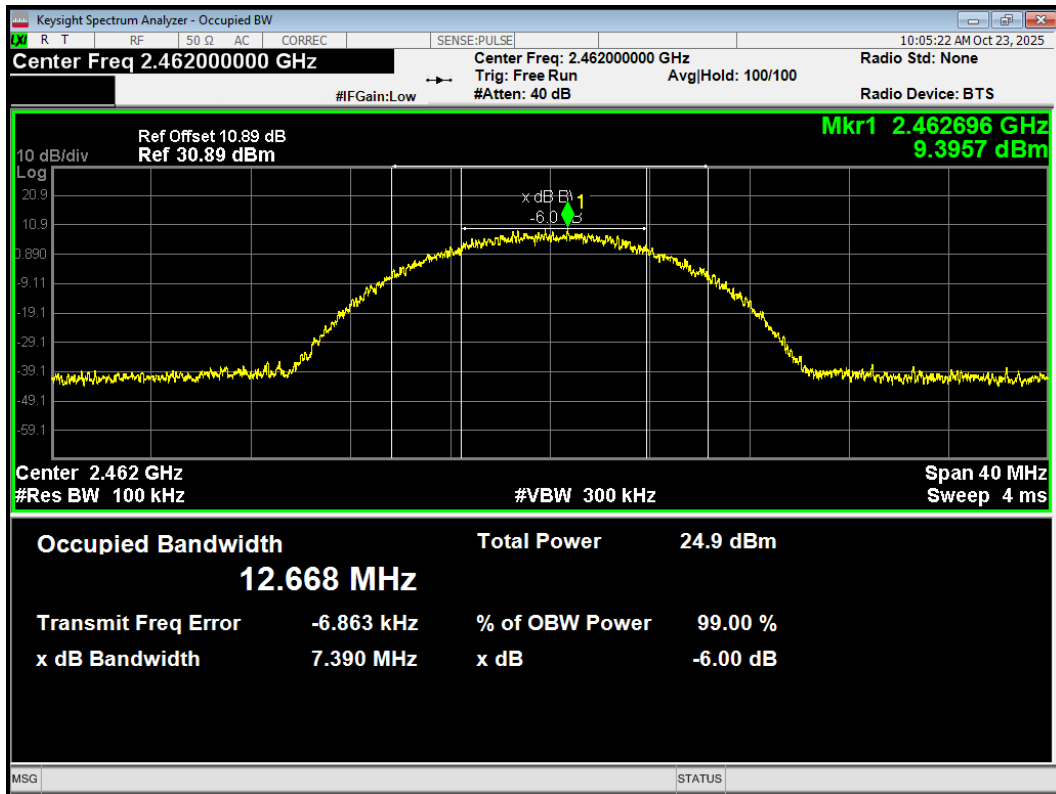
-6dB Bandwidth 802.11b 2412MHz



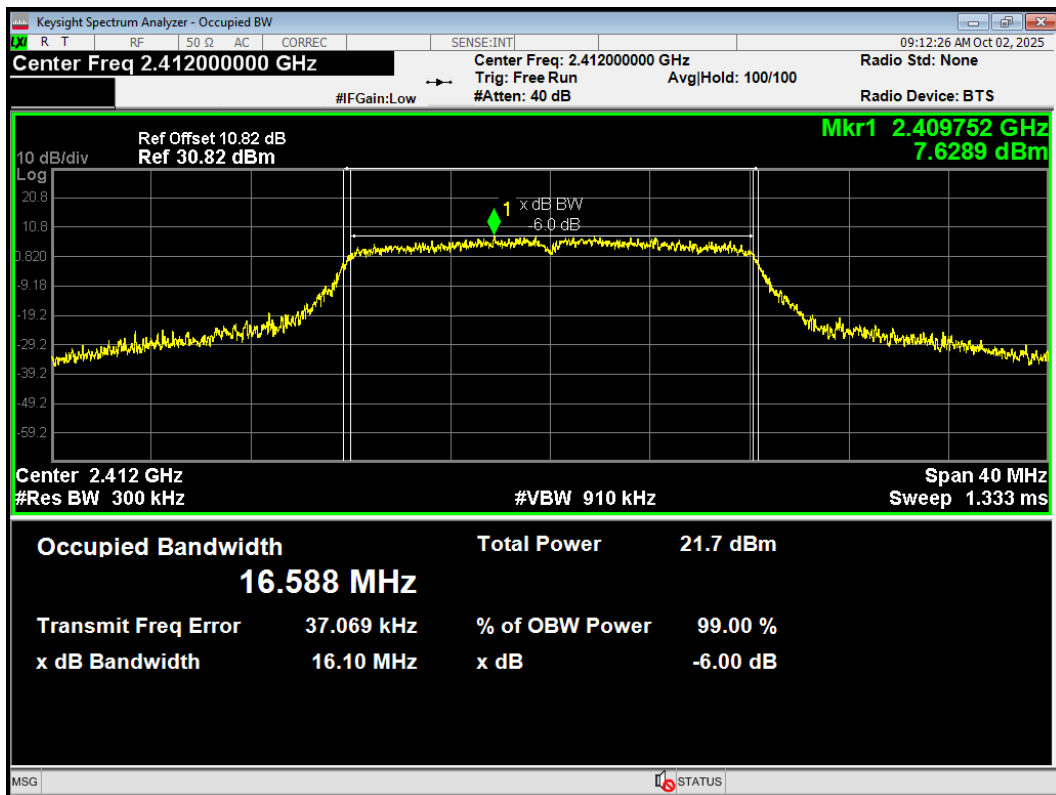
-6dB Bandwidth 802.11b 2437MHz



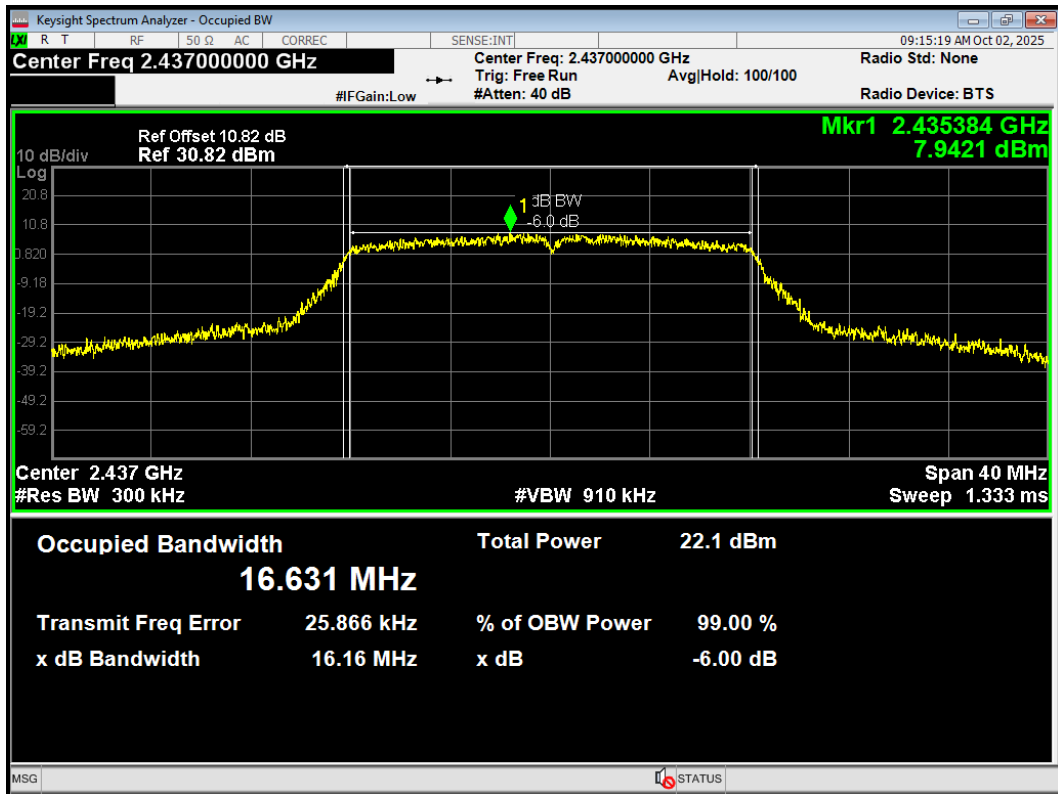
-6dB Bandwidth 802.11b 2462MHz



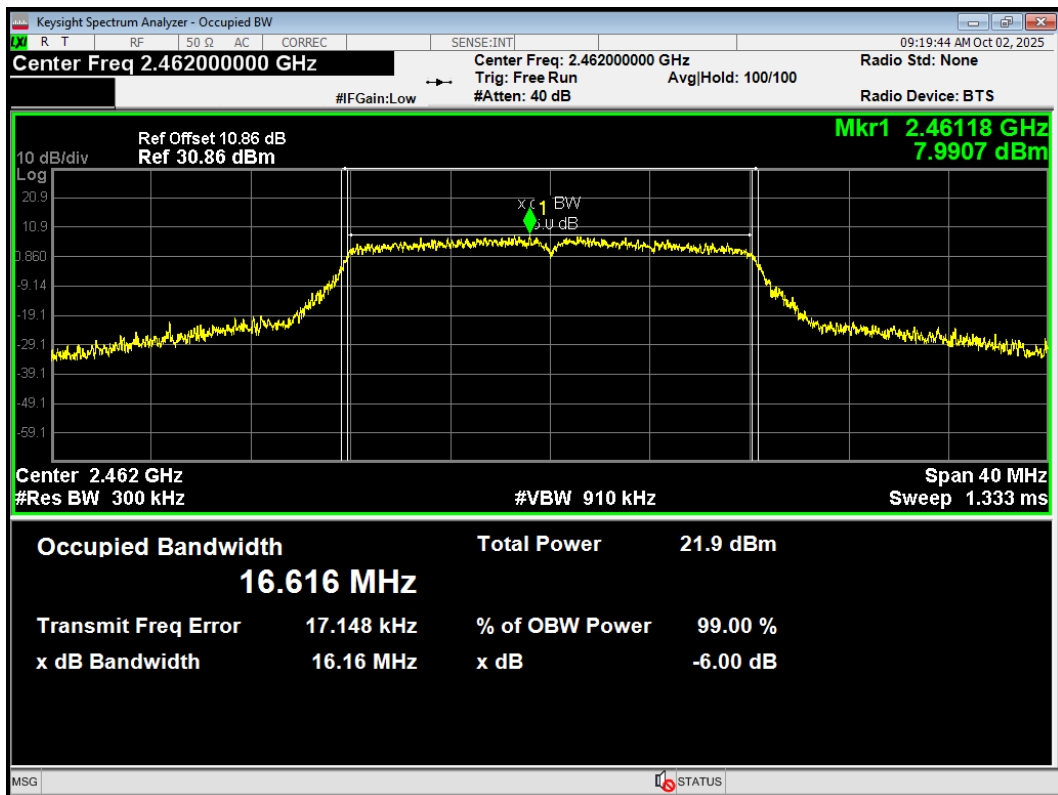
-6dB Bandwidth 802.11g 2412MHz



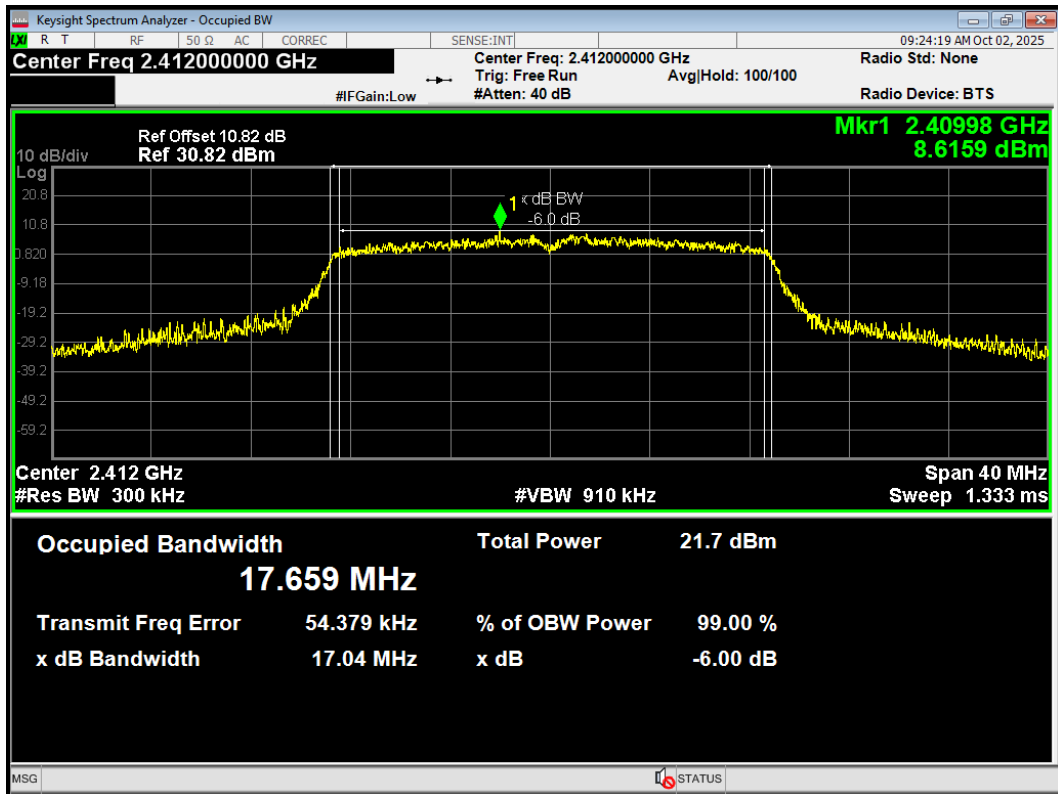
-6dB Bandwidth 802.11g 2437MHz



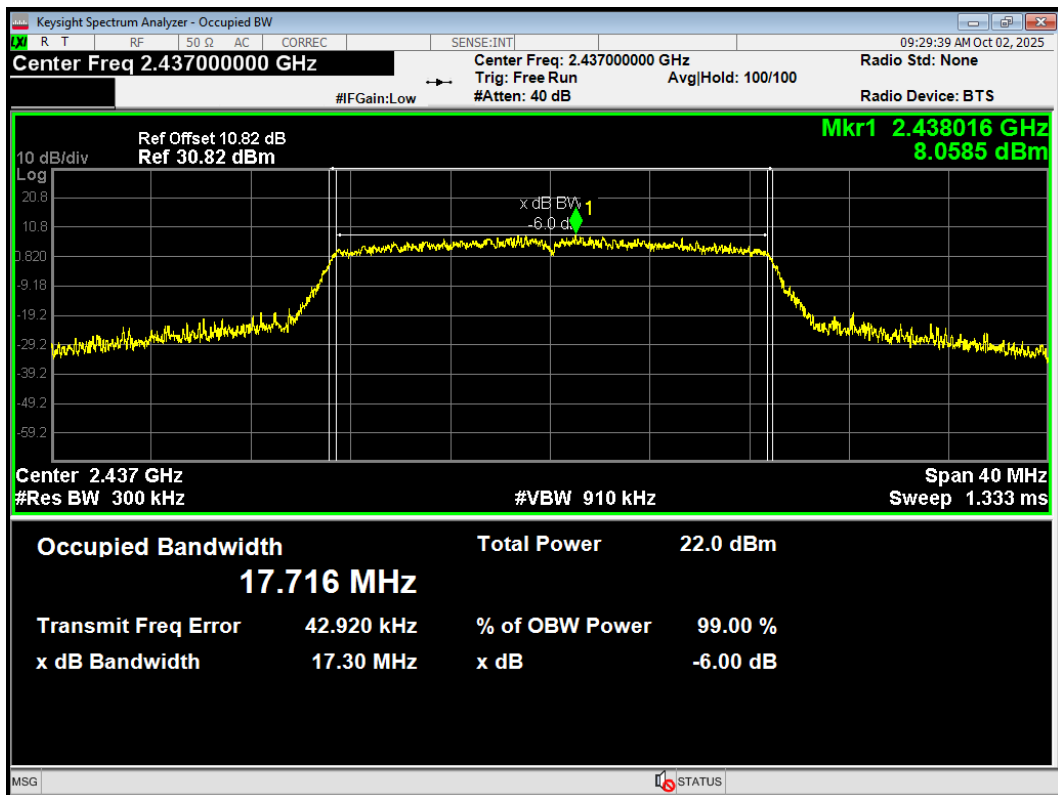
-6dB Bandwidth 802.11g 2462MHz



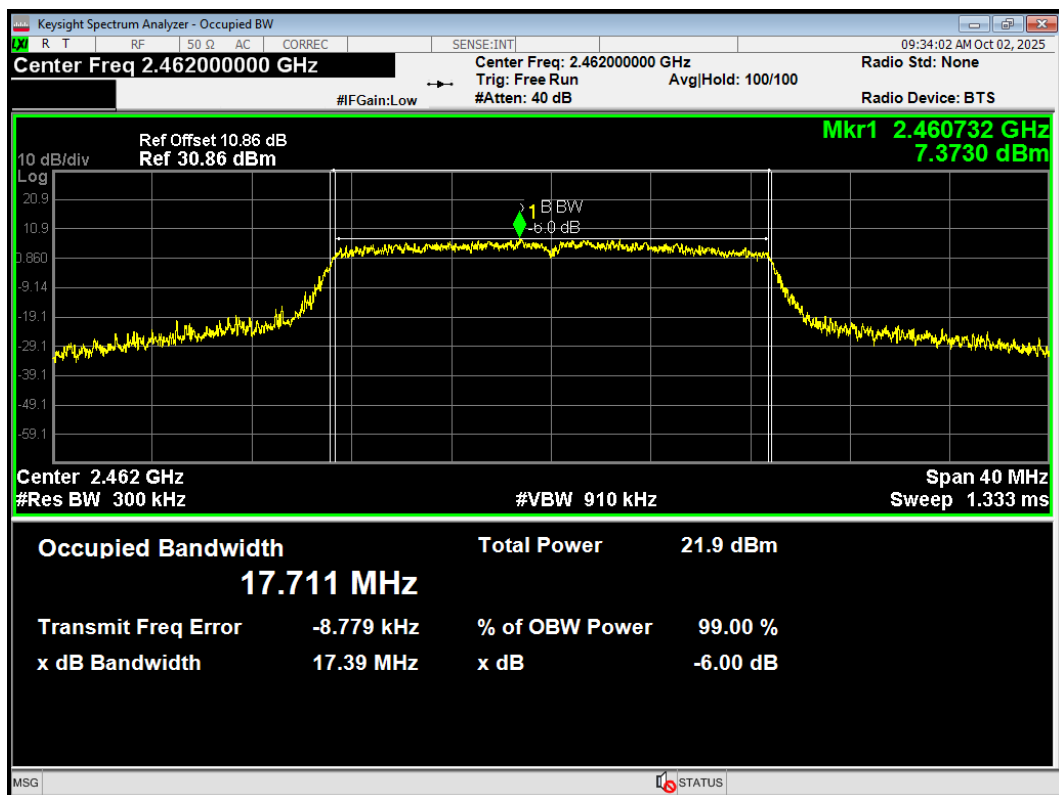
-6dB Bandwidth 802.11n(HT20) 2412MHz



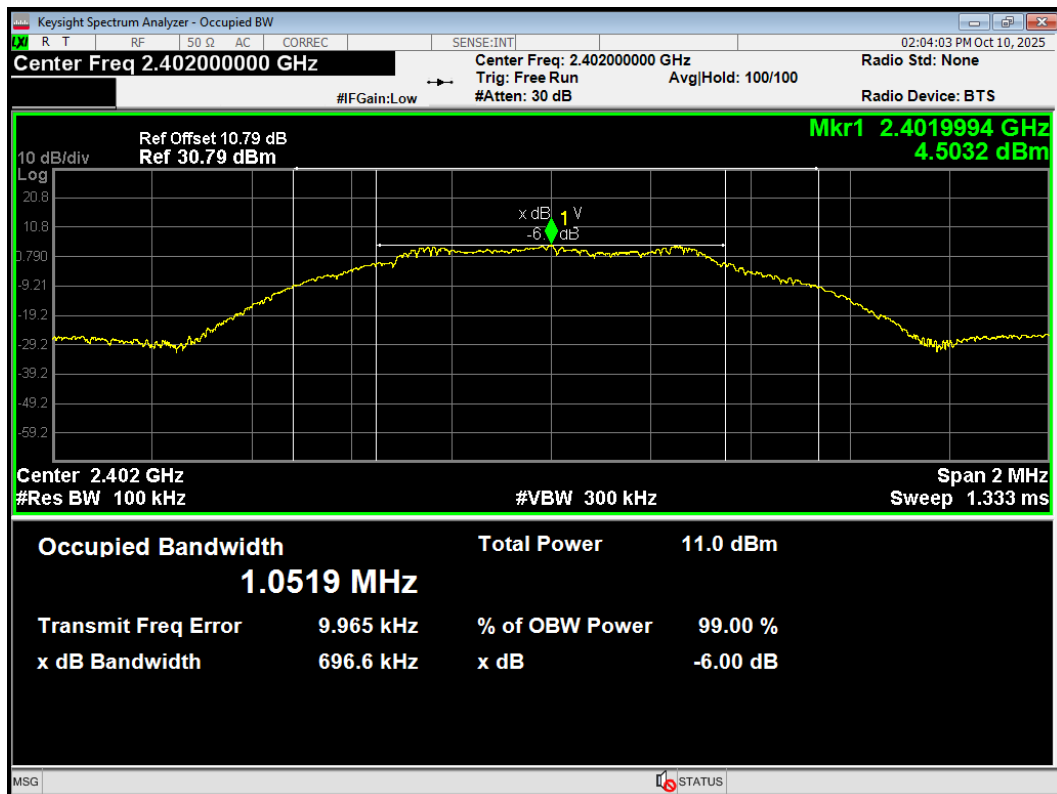
-6dB Bandwidth 802.11n(HT20) 2437MHz



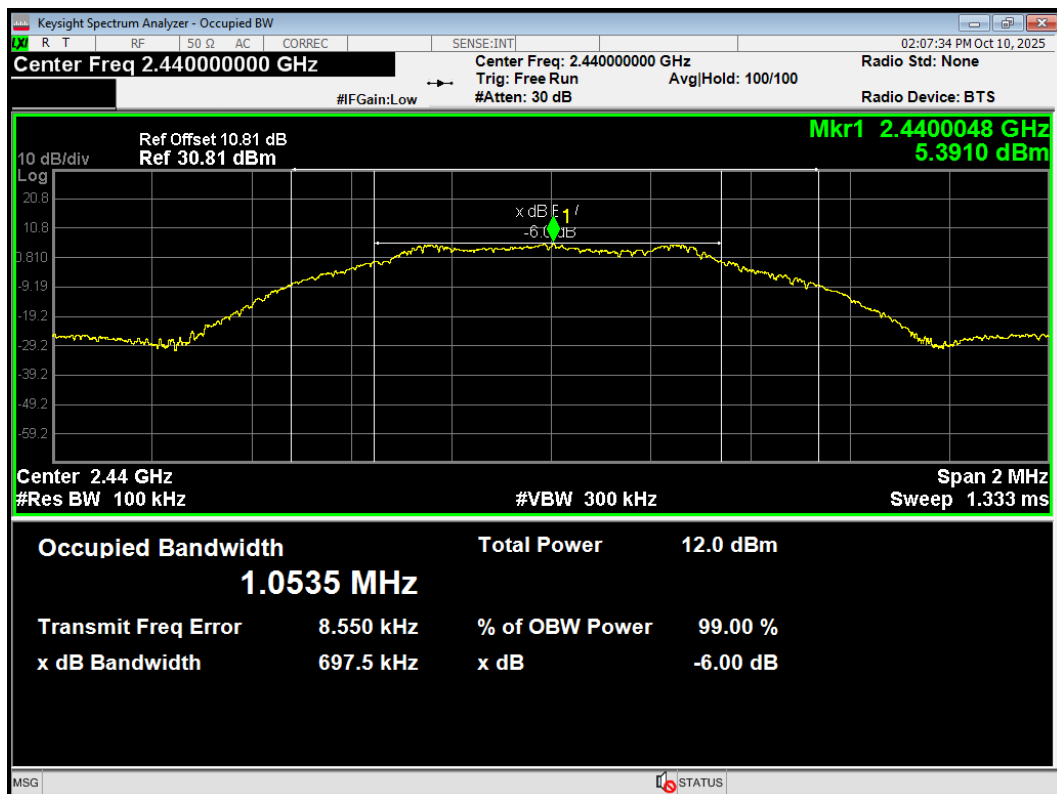
-6dB Bandwidth 802.11n(HT20) 2462MHz



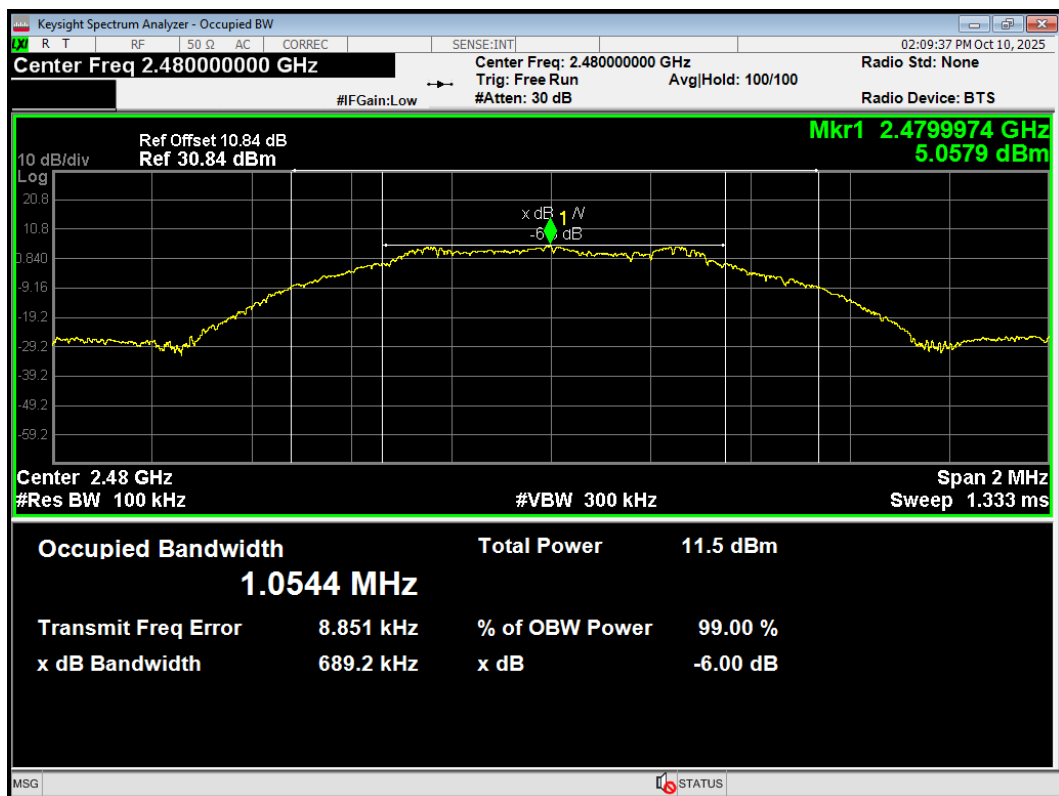
-6dB Bandwidth BLE (1M) 2402MHz



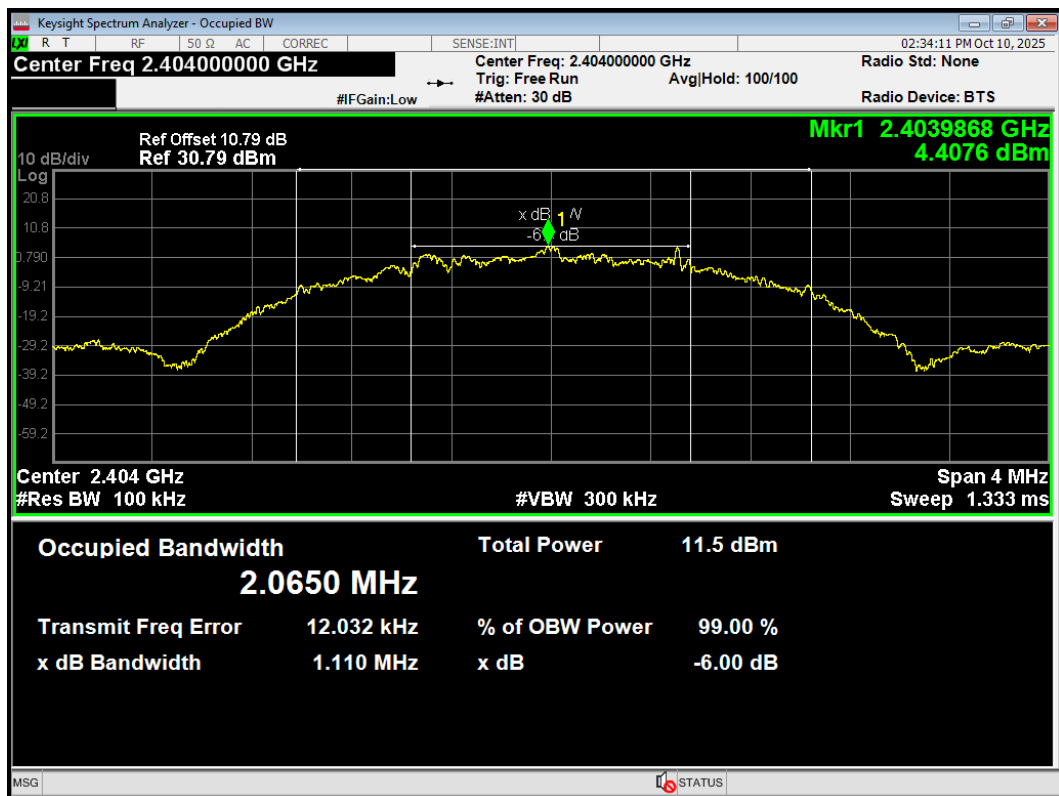
-6dB Bandwidth BLE (1M) 2440MHz



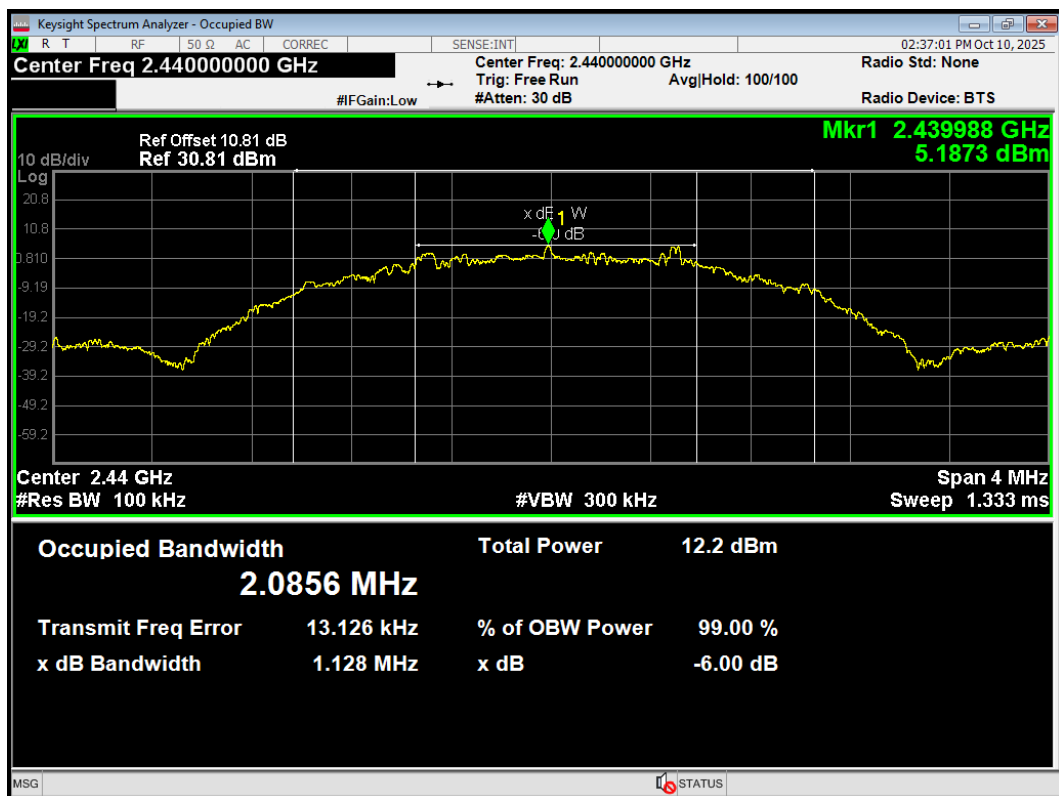
-6dB Bandwidth BLE (1M) 2480MHz



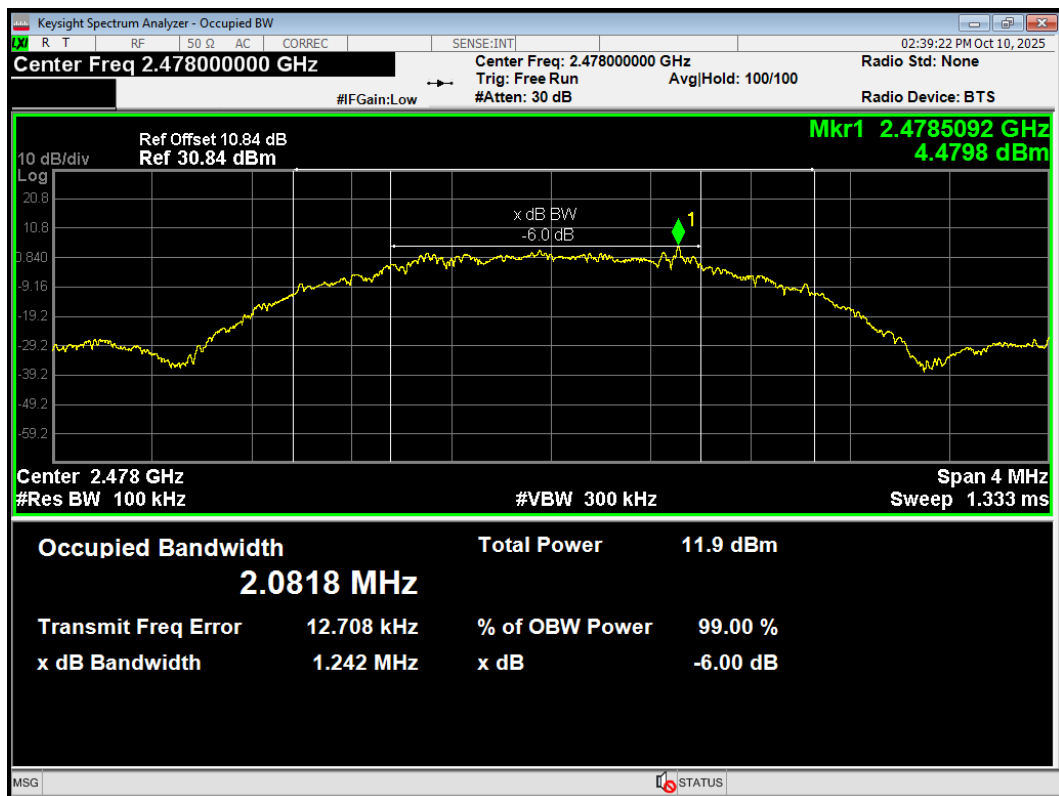
-6dB Bandwidth BLE (2M) 2404MHz



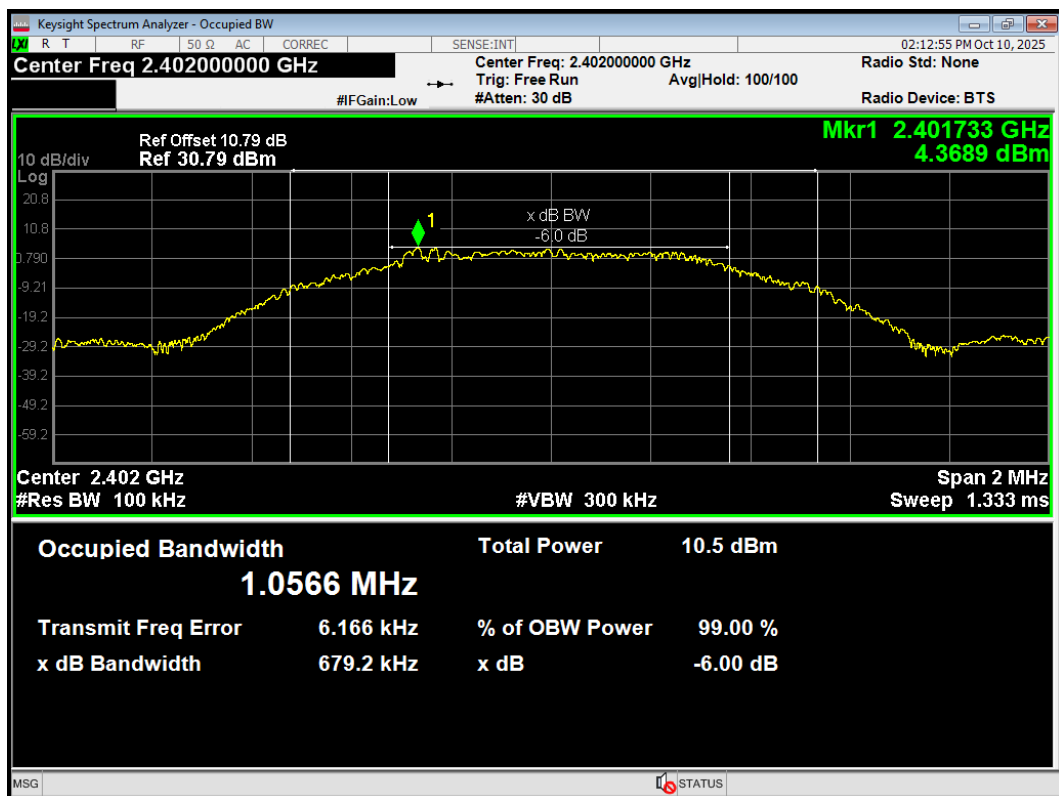
-6dB Bandwidth BLE (2M) 2440MHz



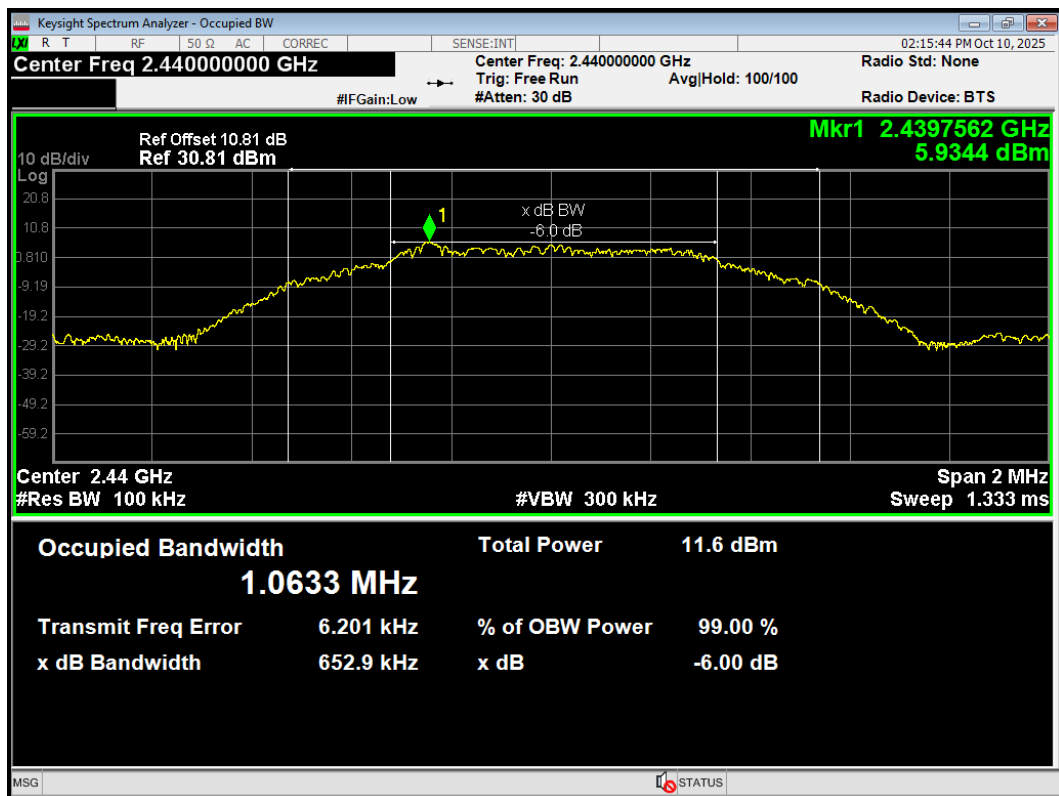
-6dB Bandwidth BLE (2M) 2478MHz



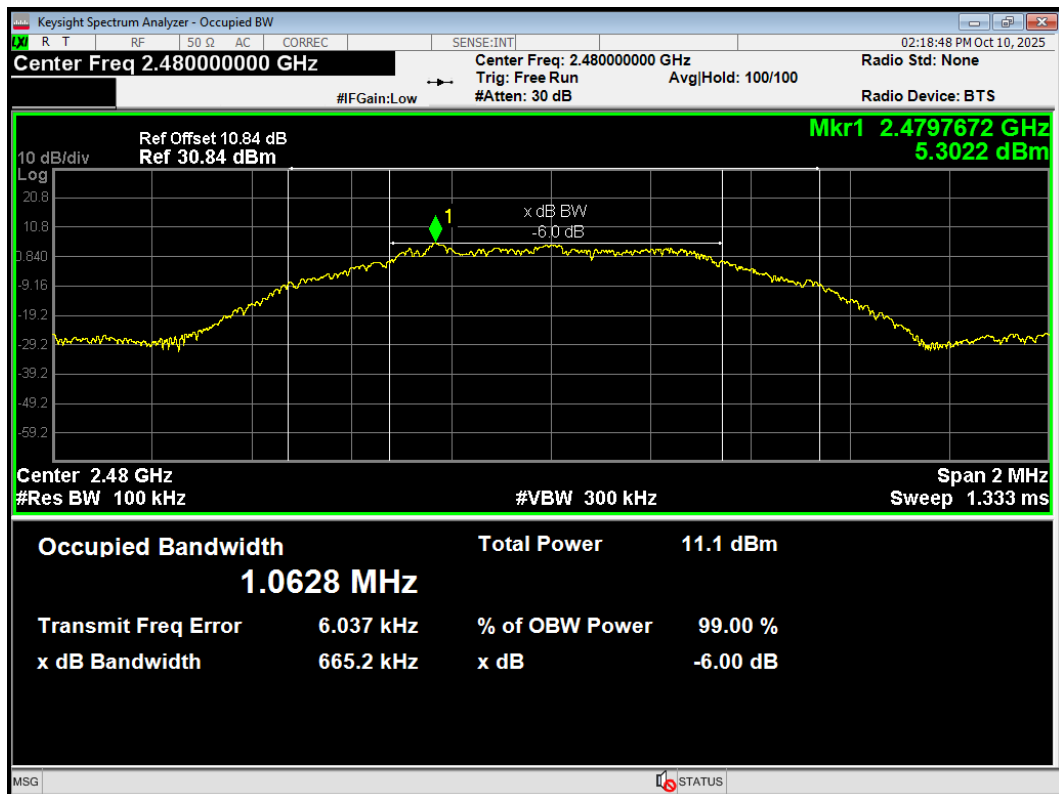
-6dB Bandwidth BLE (S=2) 2402MHz



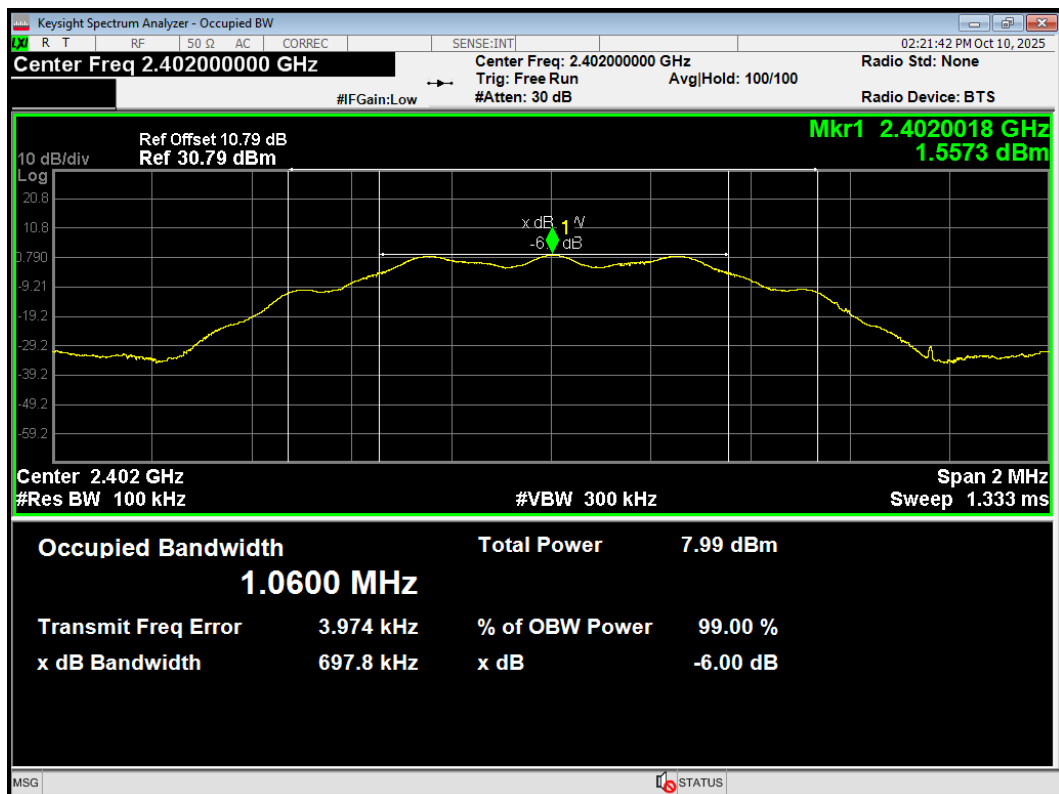
-6dB Bandwidth BLE (S=2) 2440MHz



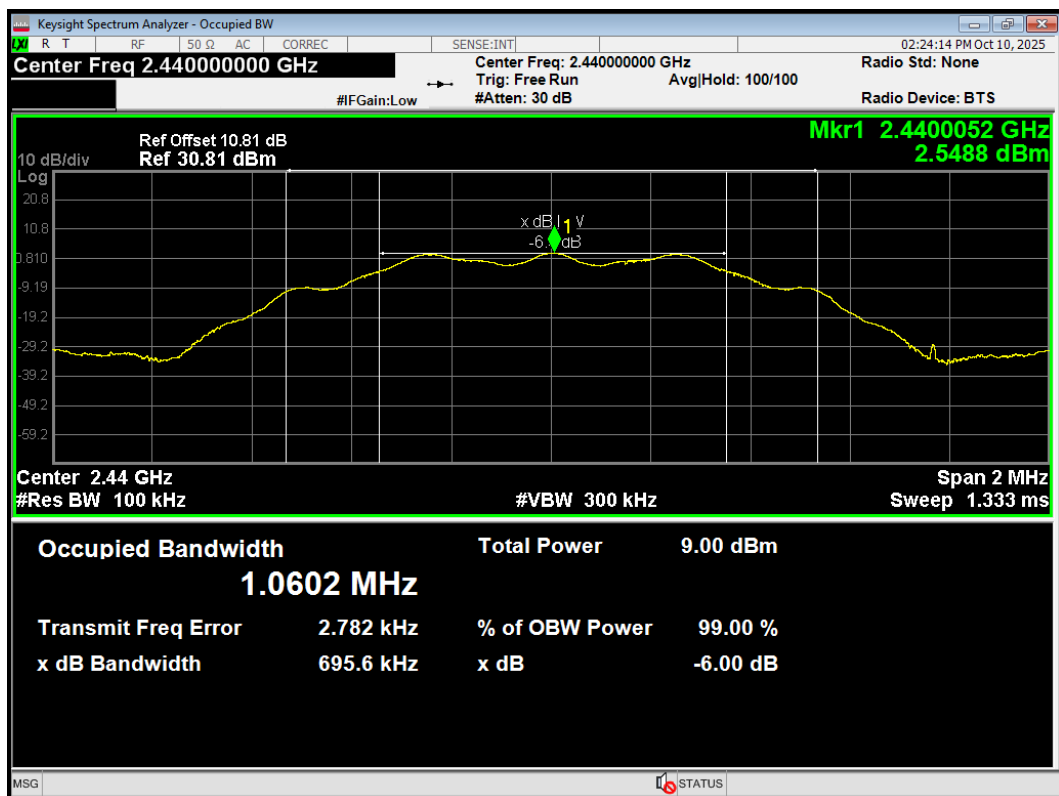
-6dB Bandwidth BLE (S=2) 2480MHz



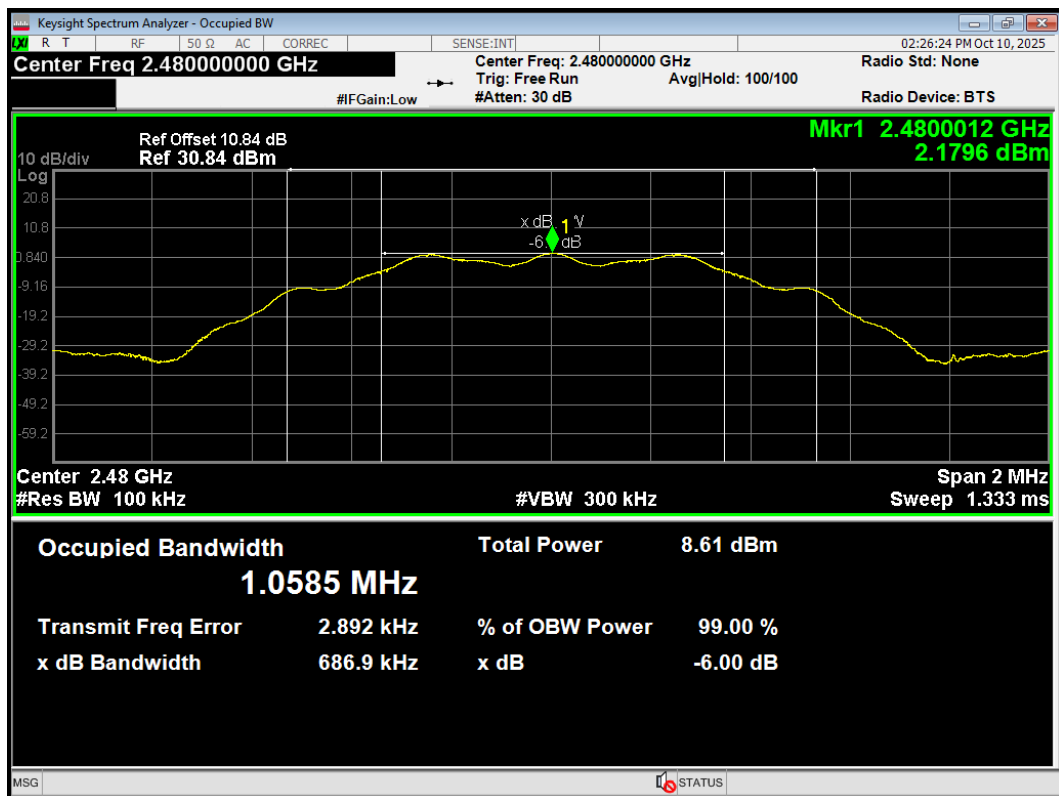
-6dB Bandwidth BLE (S=8) 2402MHz



-6dB Bandwidth BLE (S=8) 2440MHz

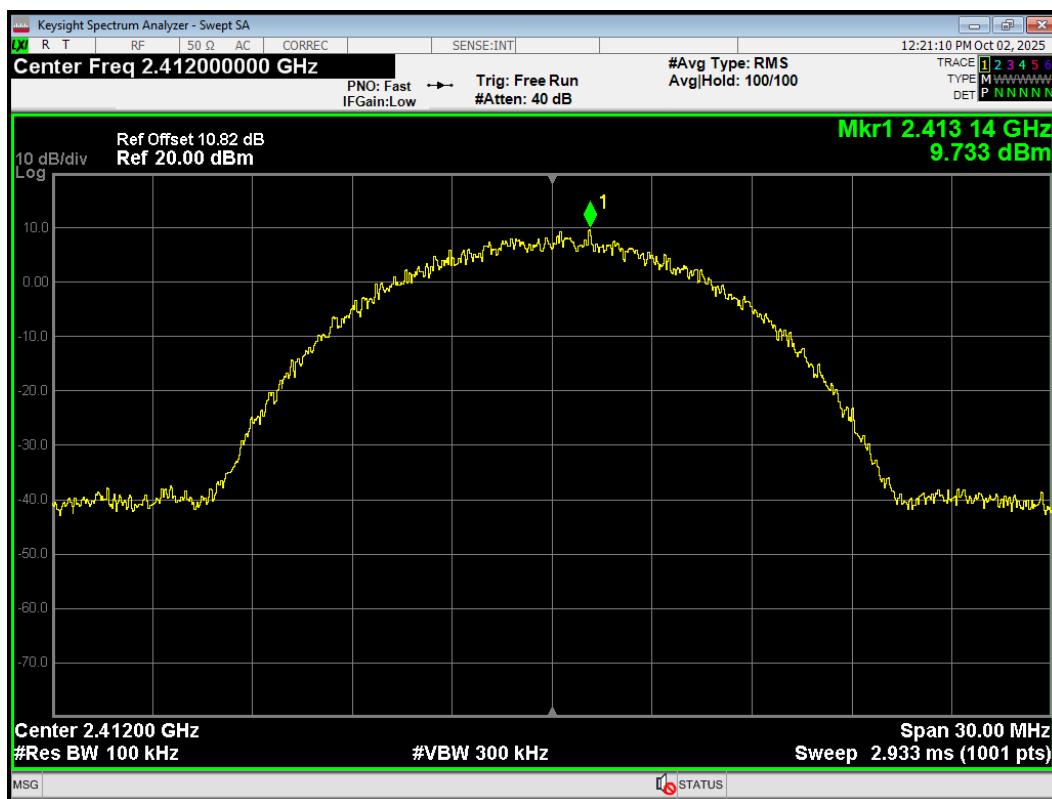


-6dB Bandwidth BLE (S=8) 2480MHz

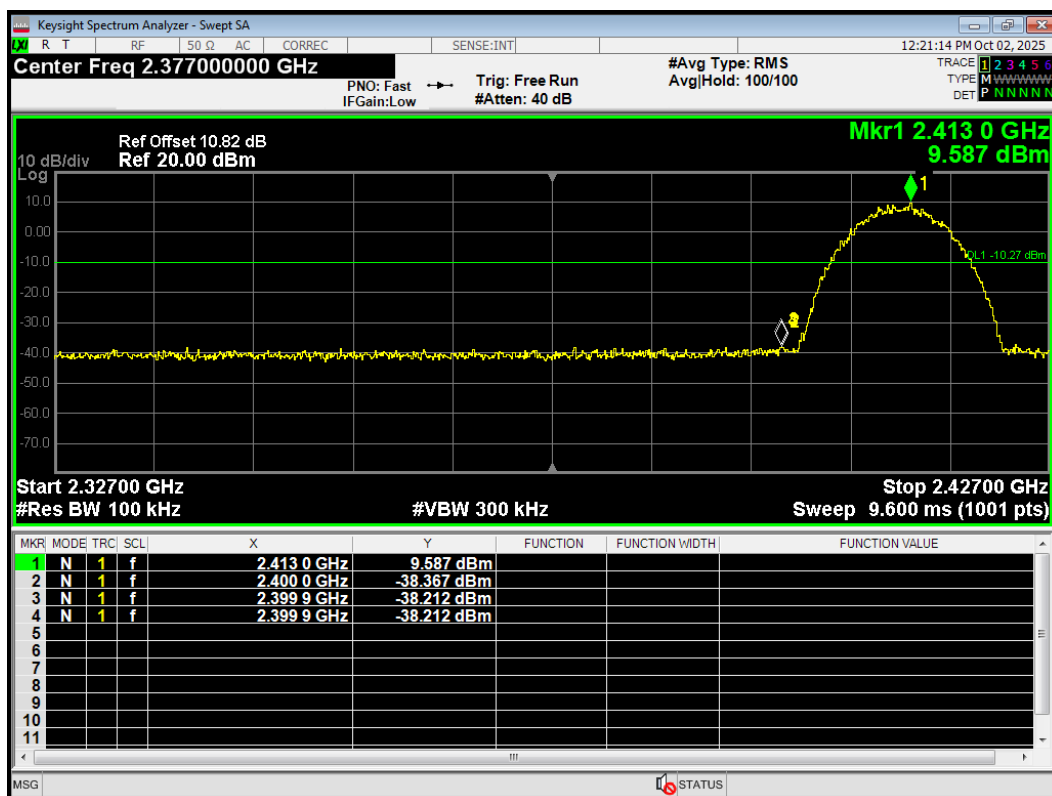


6.3. Band Edge

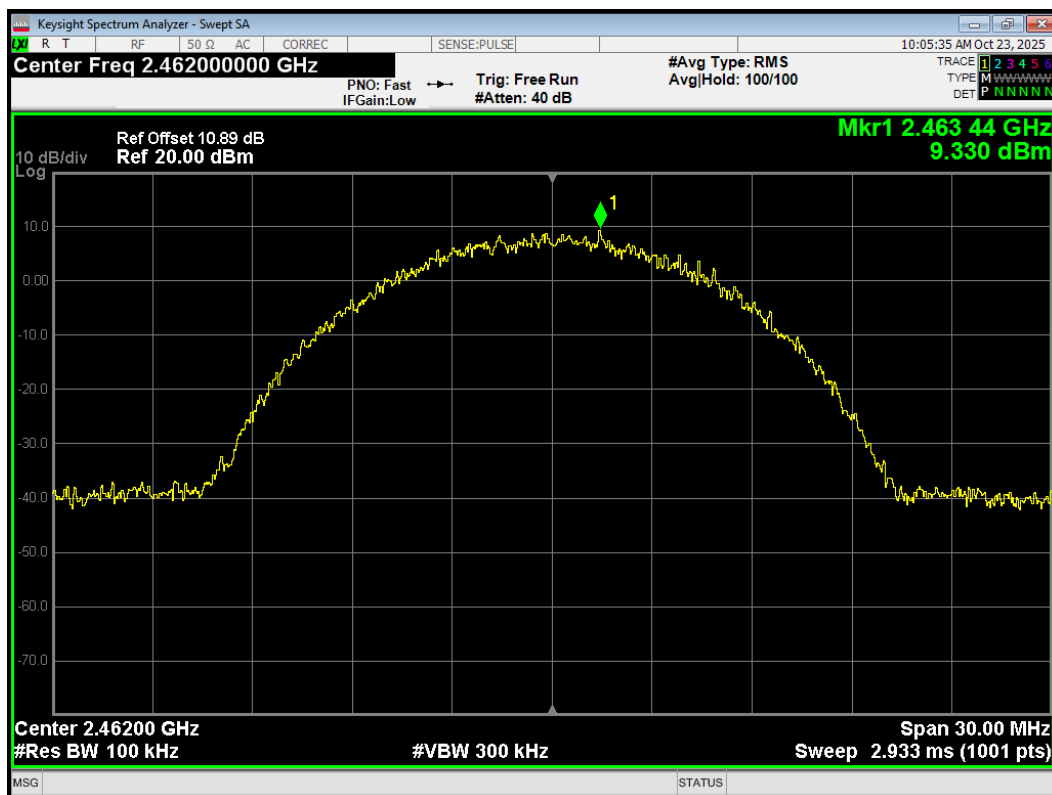
Band Edge 802.11b 2412MHz Ref



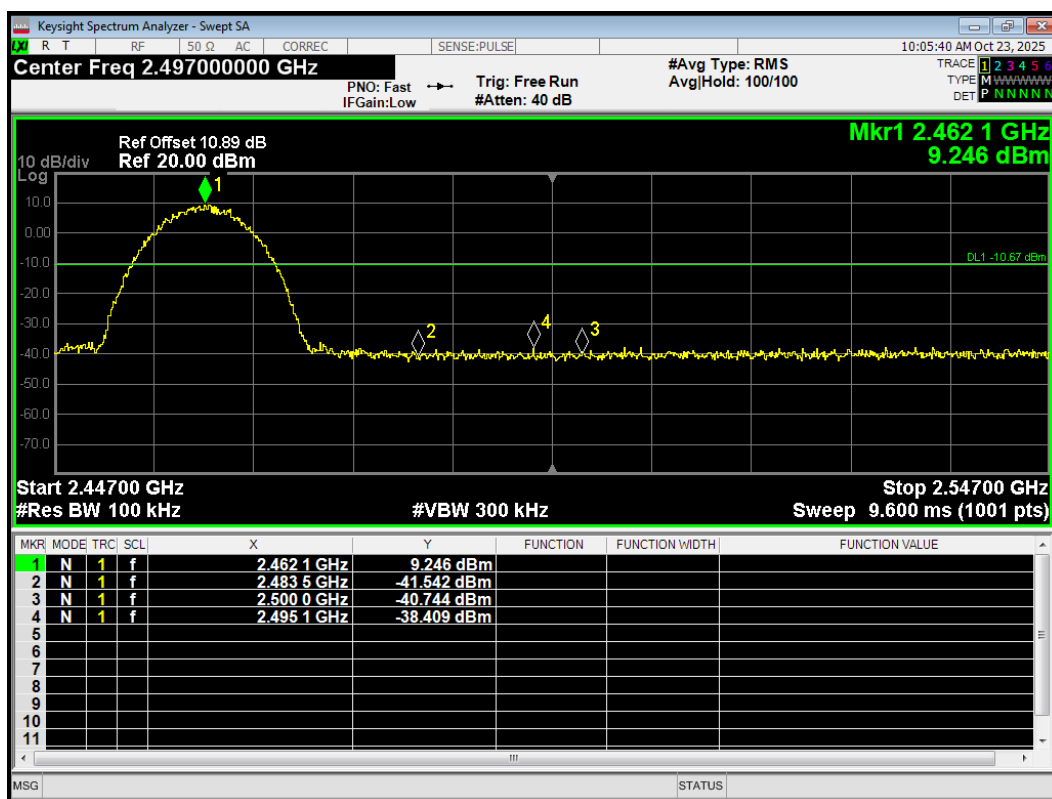
Band Edge 802.11b 2412MHz Emission



Band Edge 802.11b 2462MHz Ref



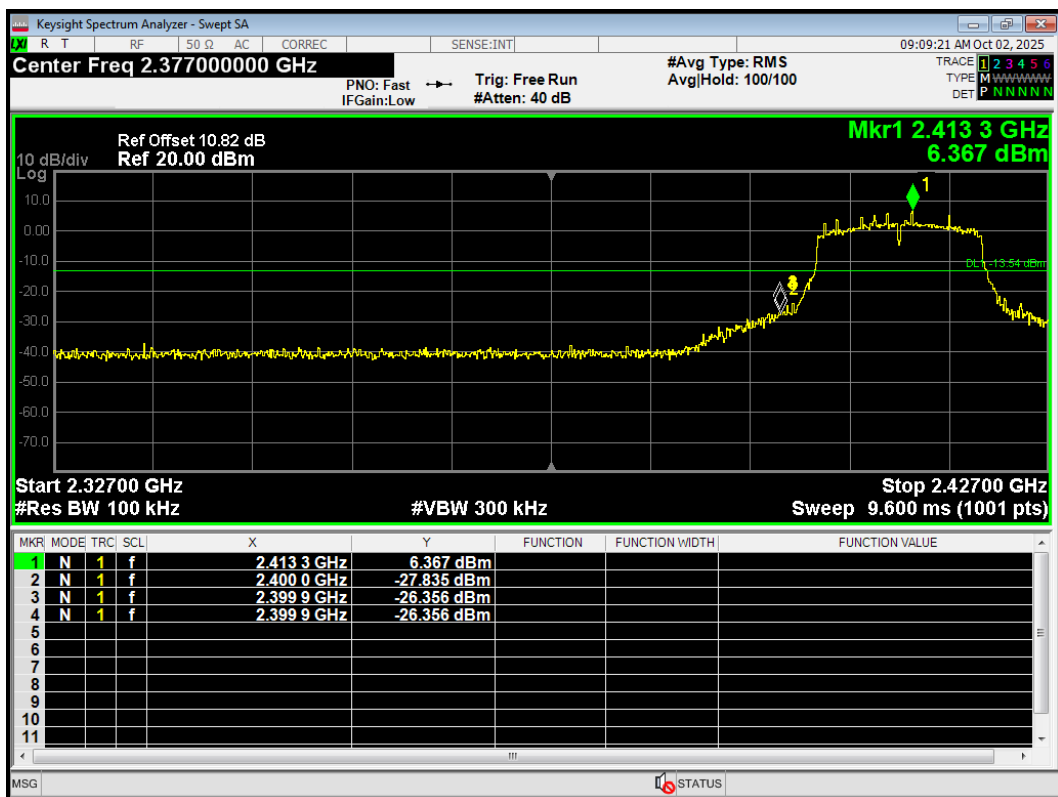
Band Edge 802.11b 2462MHz Emission



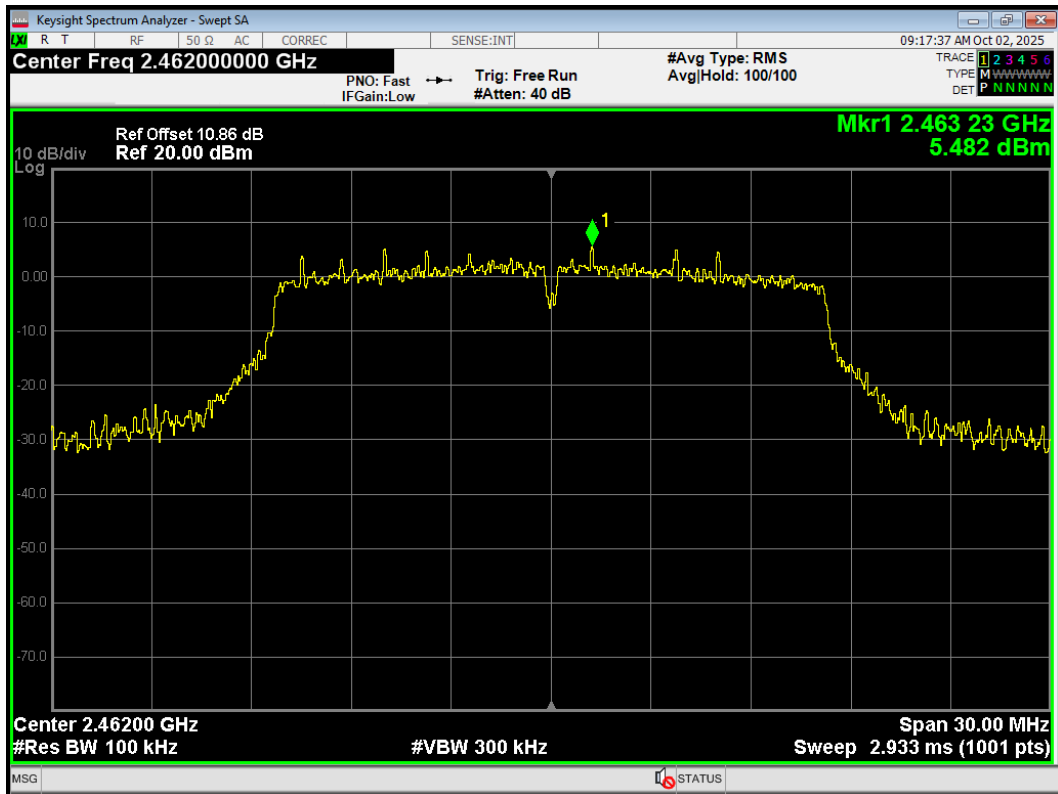
Band Edge 802.11g 2412MHz Ref



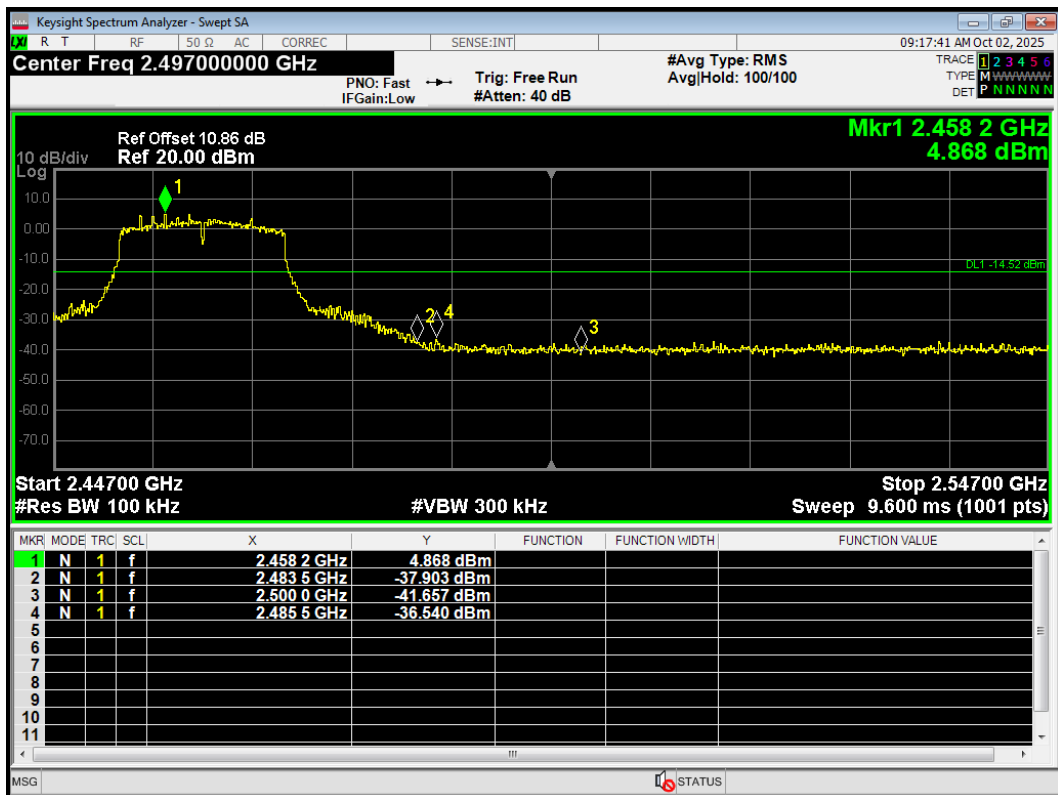
Band Edge 802.11g 2412MHz Emission



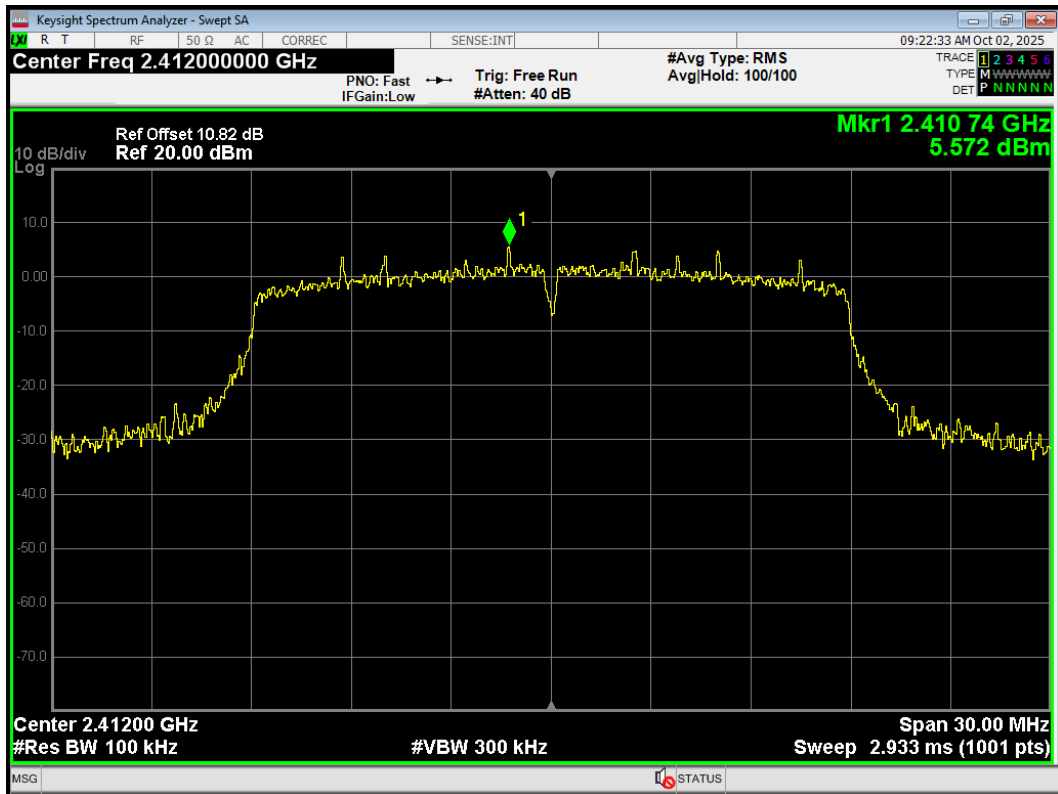
Band Edge 802.11g 2462MHz Ref



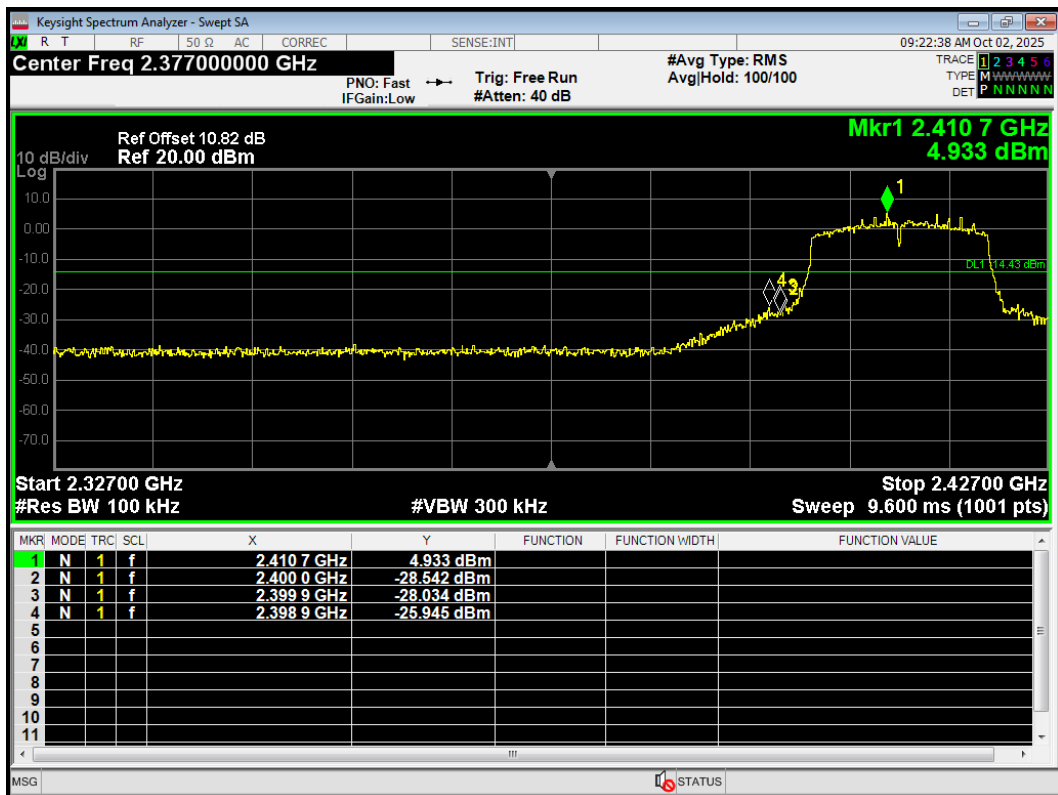
Band Edge 802.11g 2462MHz Emission



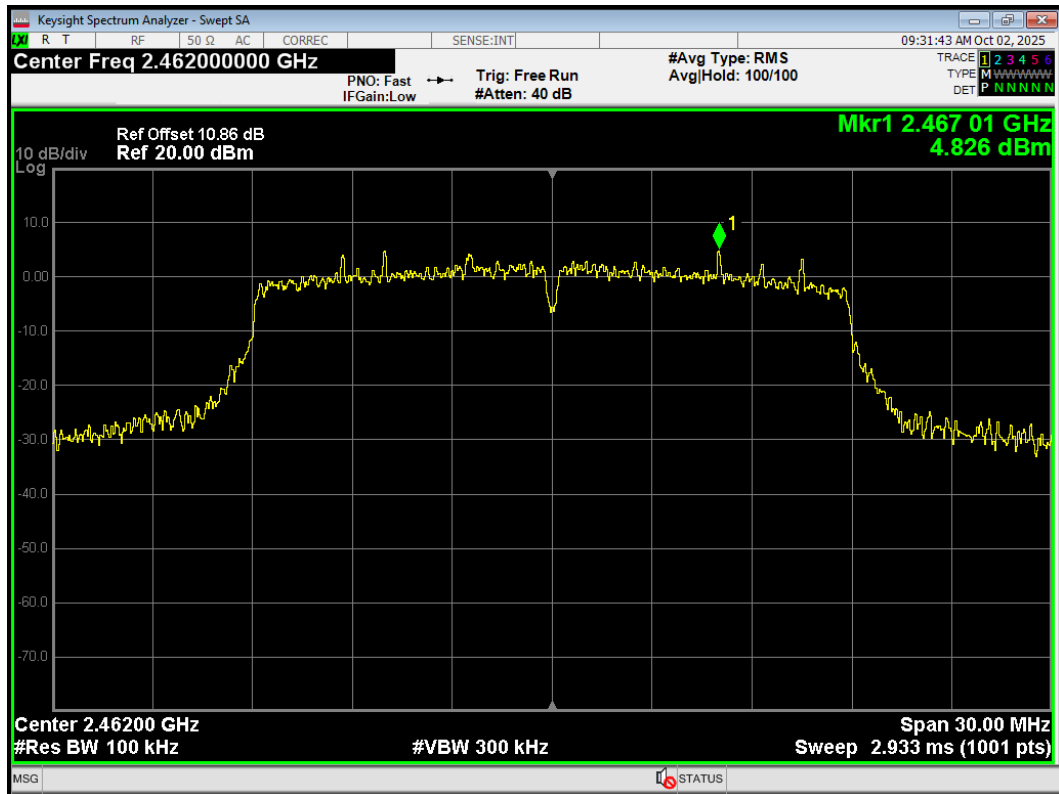
Band Edge 802.11n(HT20) 2412MHz Ref



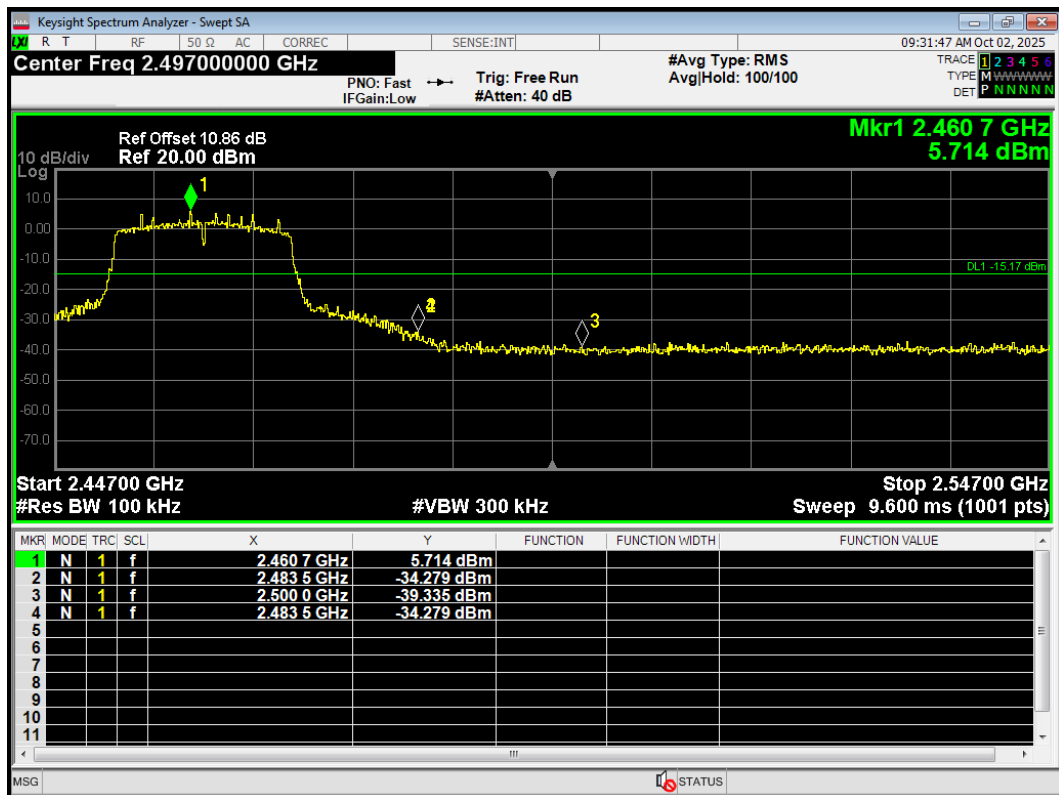
Band Edge 802.11n(HT20) 2412MHz Emission



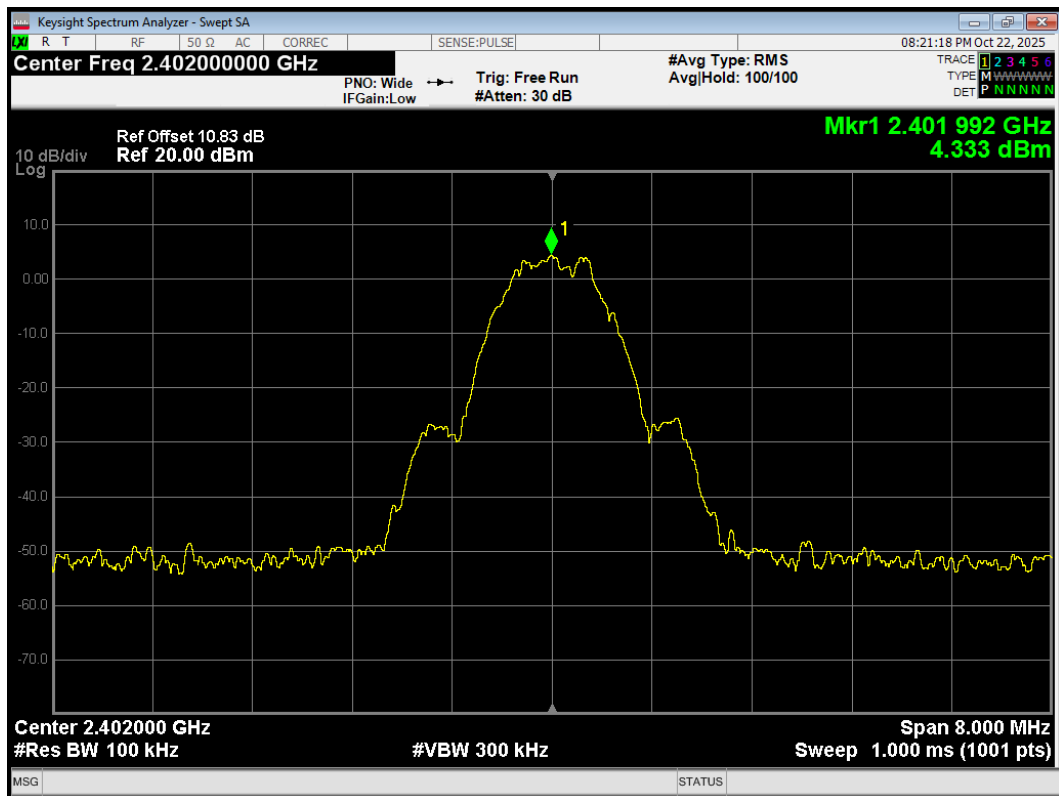
Band Edge 802.11n(HT20) 2462MHz Ref



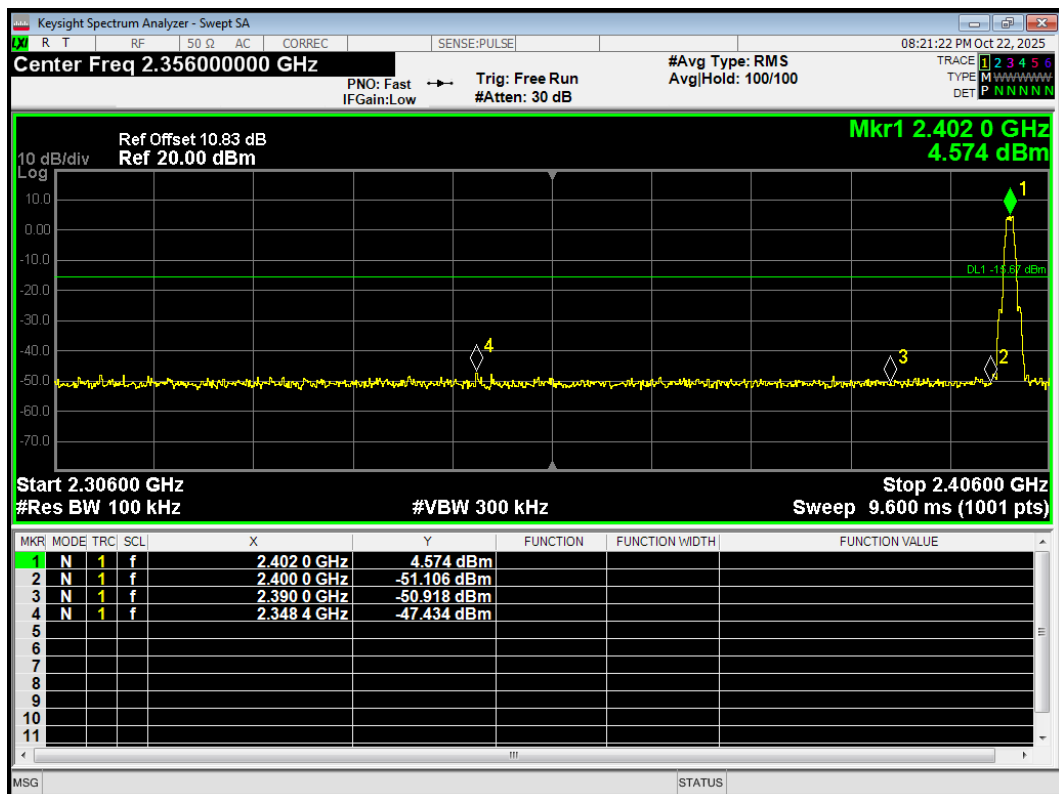
Band Edge 802.11n(HT20) 2462MHz Emission



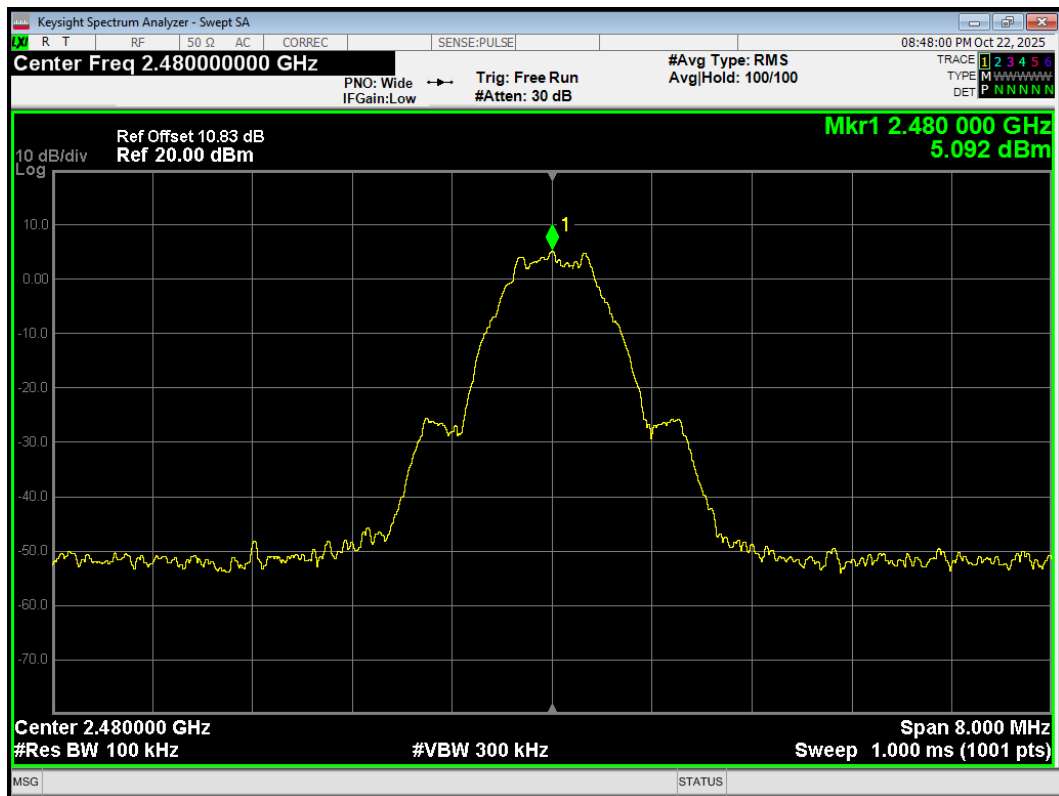
Band Edge BLE (1M) 2402MHz Ref



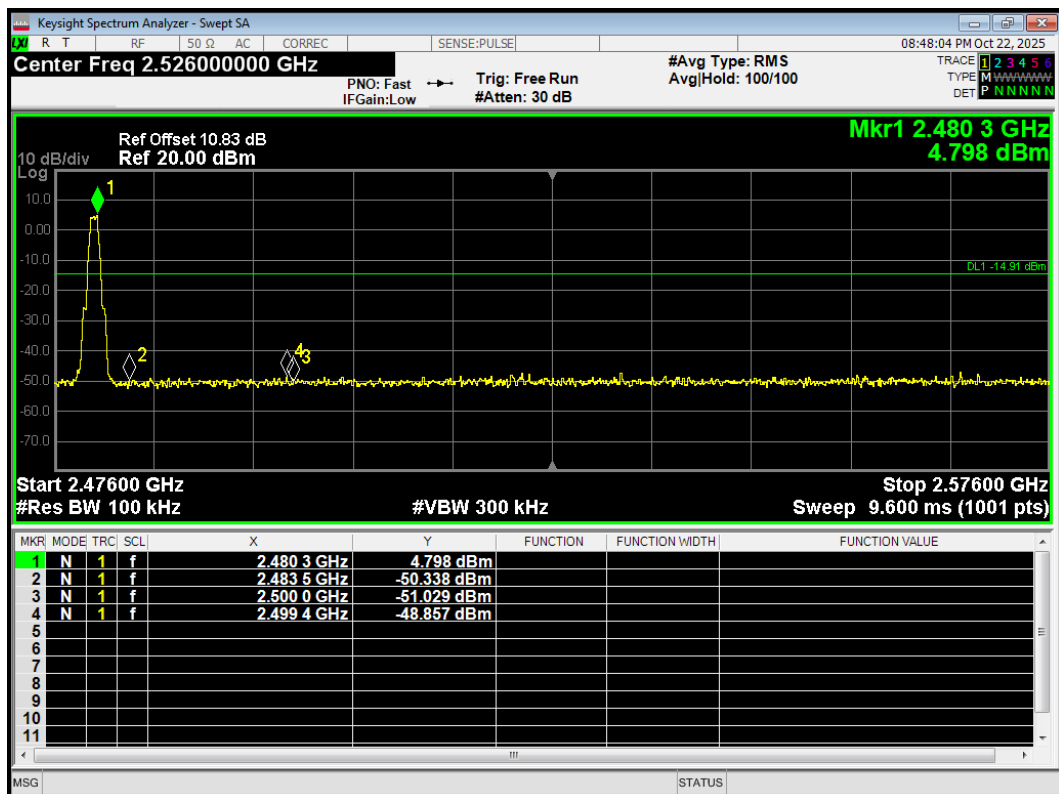
Band Edge BLE (1M) 2402MHz Emission



Band Edge BLE (1M) 2480MHz Ref



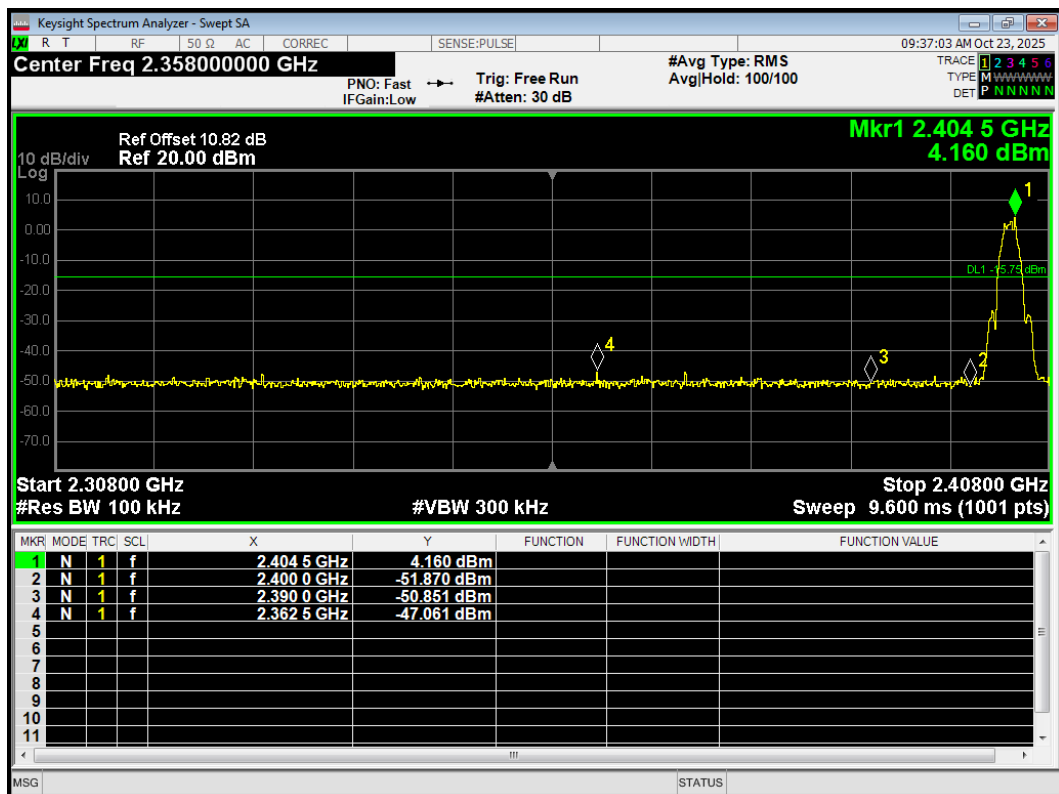
Band Edge BLE (1M) 2480MHz Emission



Band Edge BLE (2M) 2404MHz Ref



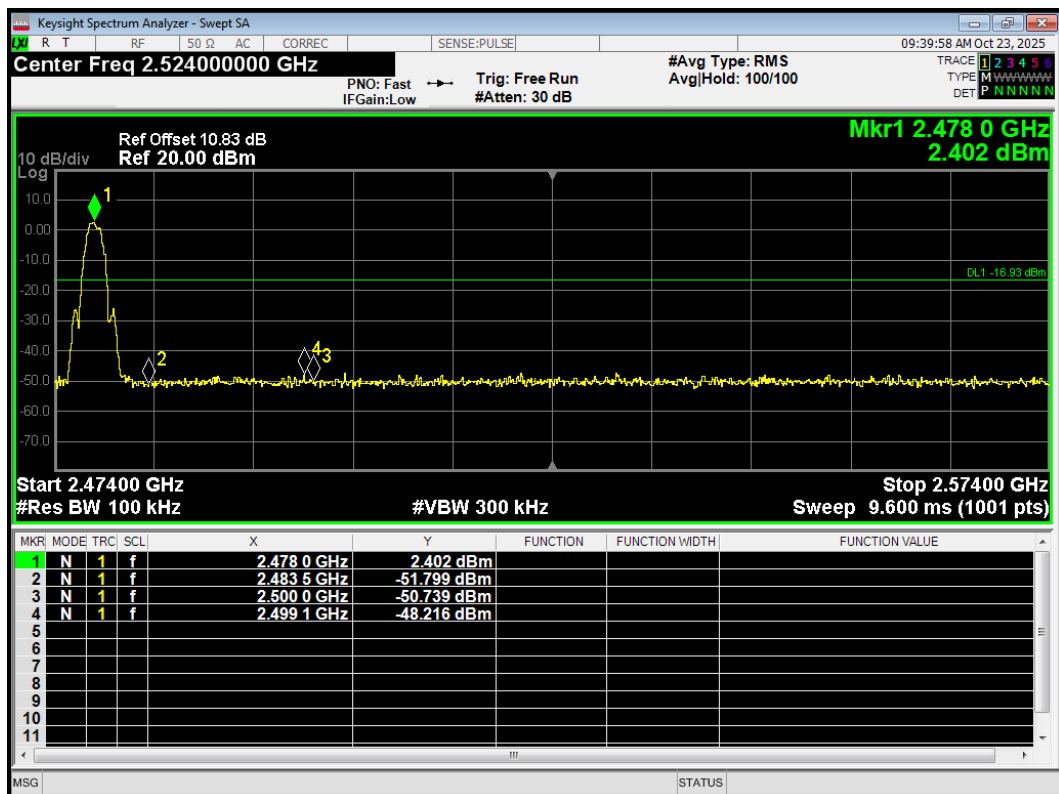
Band Edge BLE (2M) 2404MHz Emission



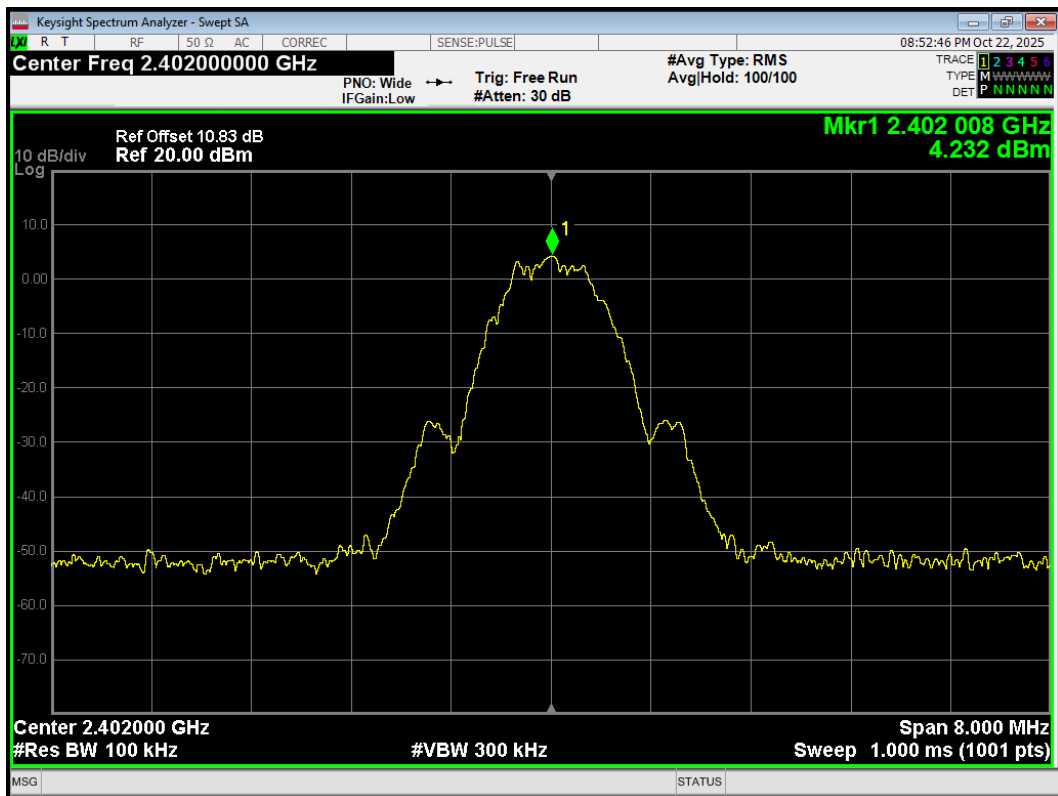
Band Edge BLE (2M) 2478MHz Ref



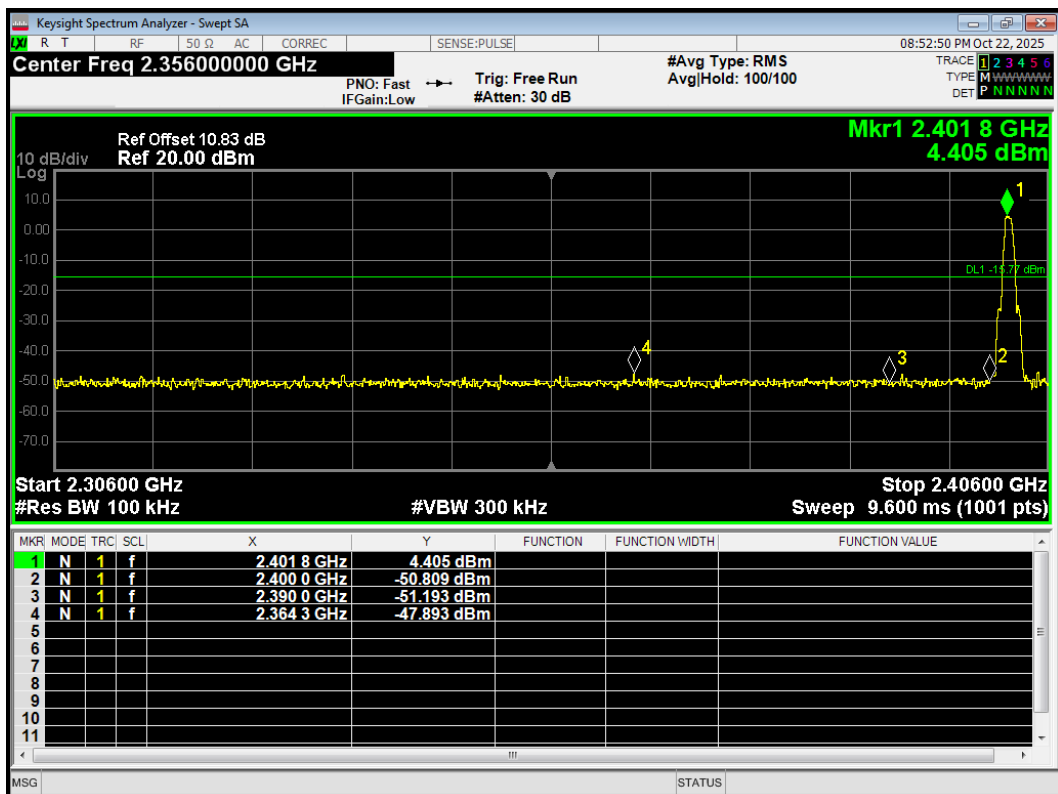
Band Edge BLE (2M) 2478MHz Emission



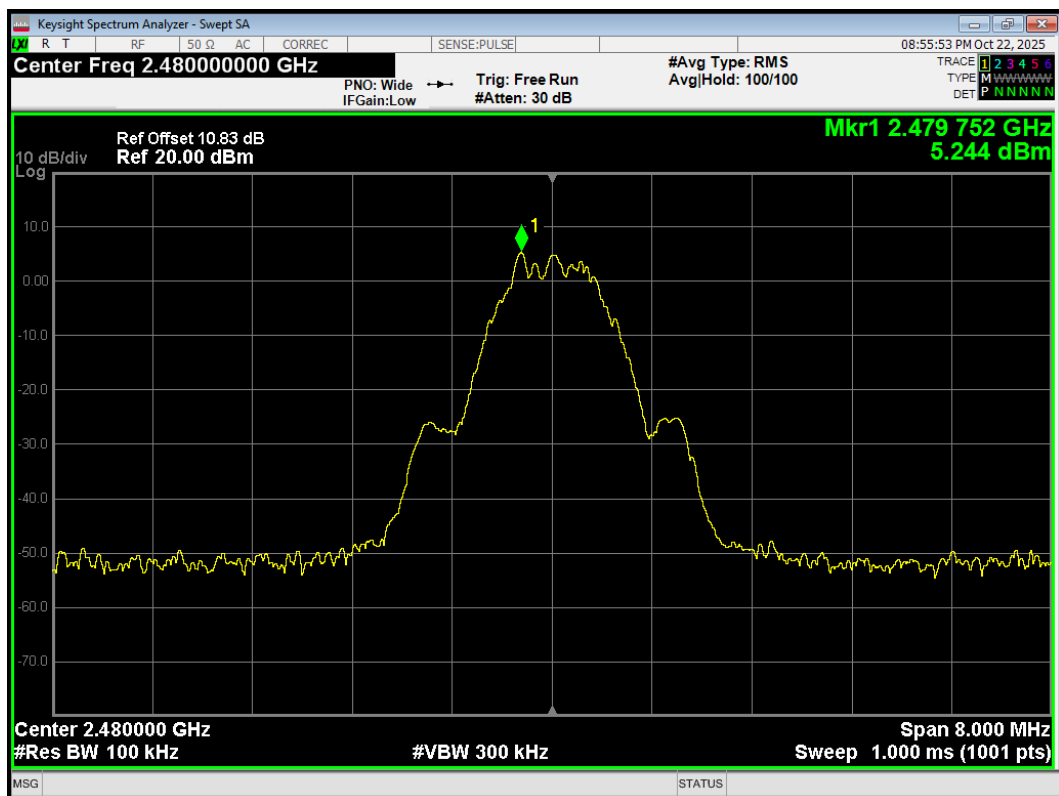
Band Edge BLE (S=2) 2402MHz Ref



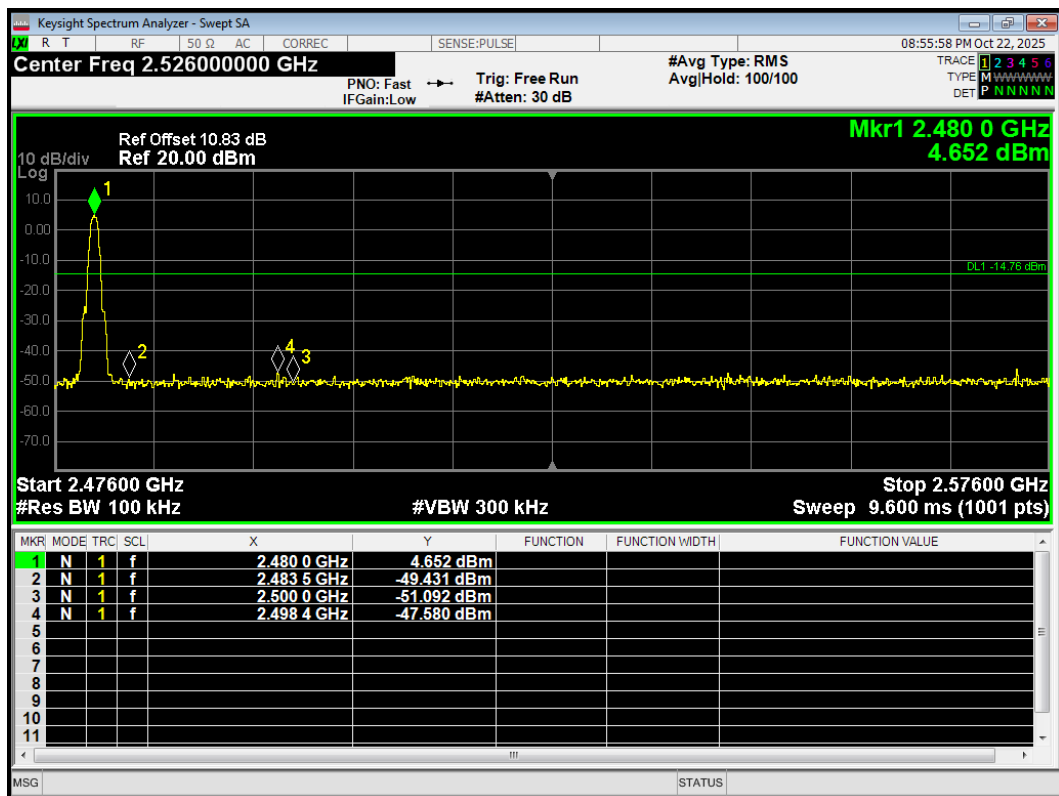
Band Edge BLE (S=2) 2402MHz Emission



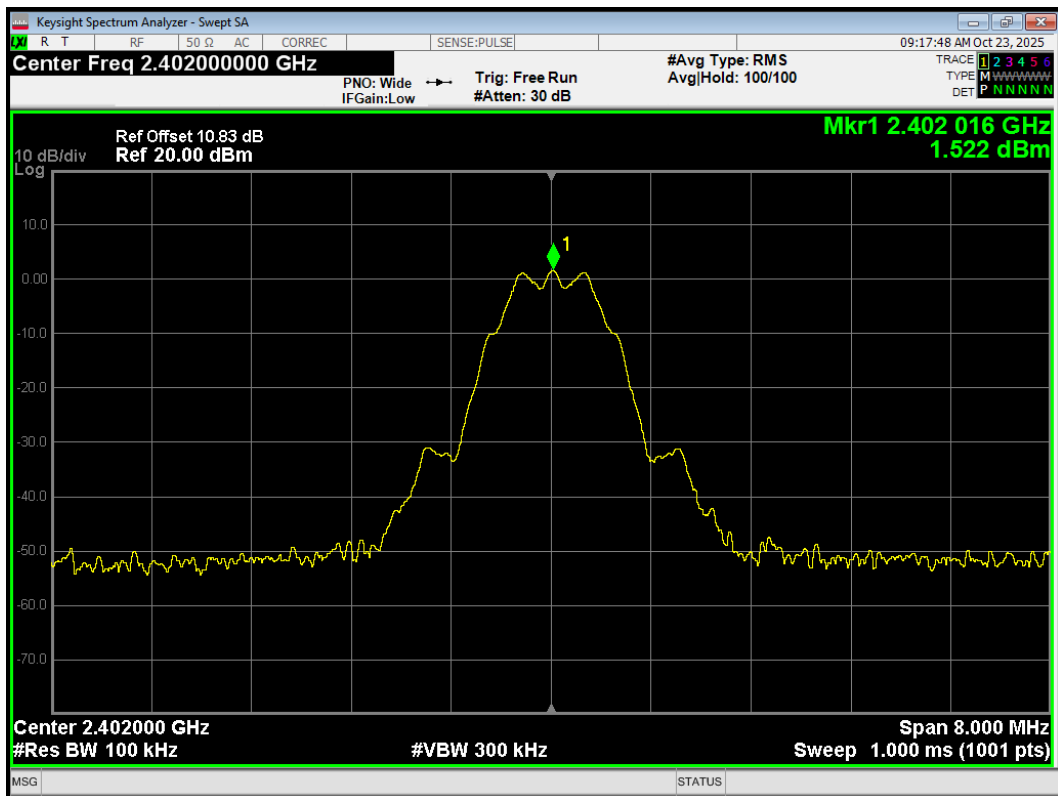
Band Edge BLE (S=2) 2480MHz Ref



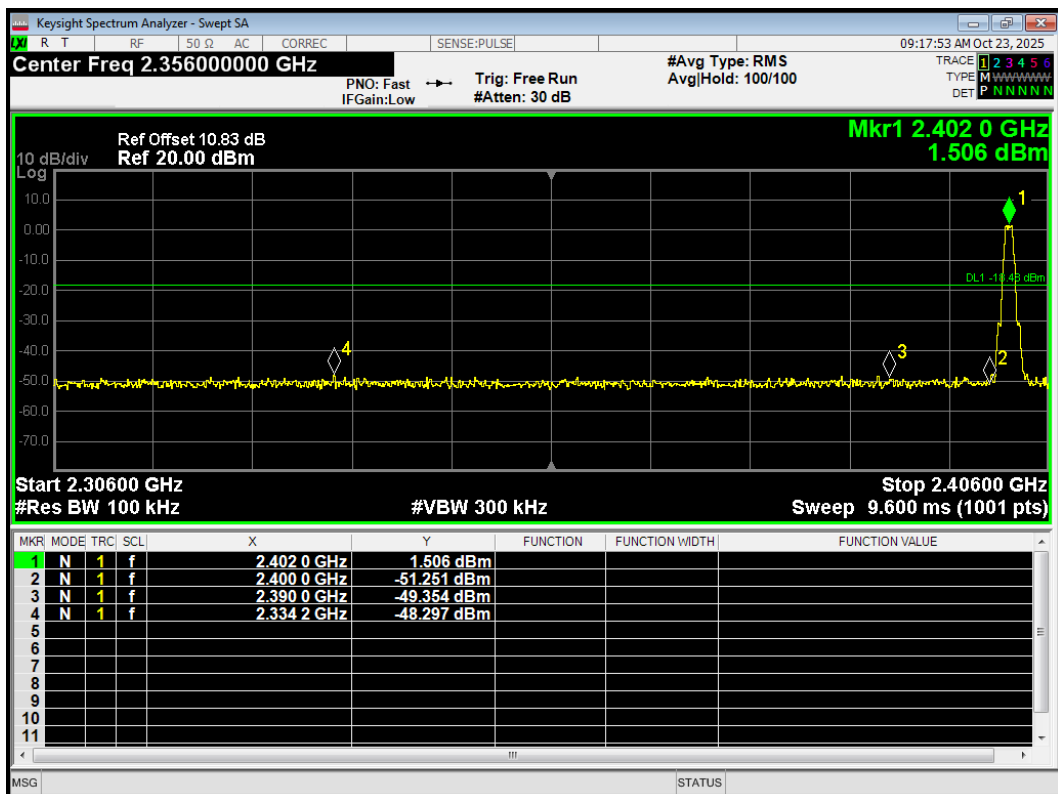
Band Edge BLE (S=2) 2480MHz Emission



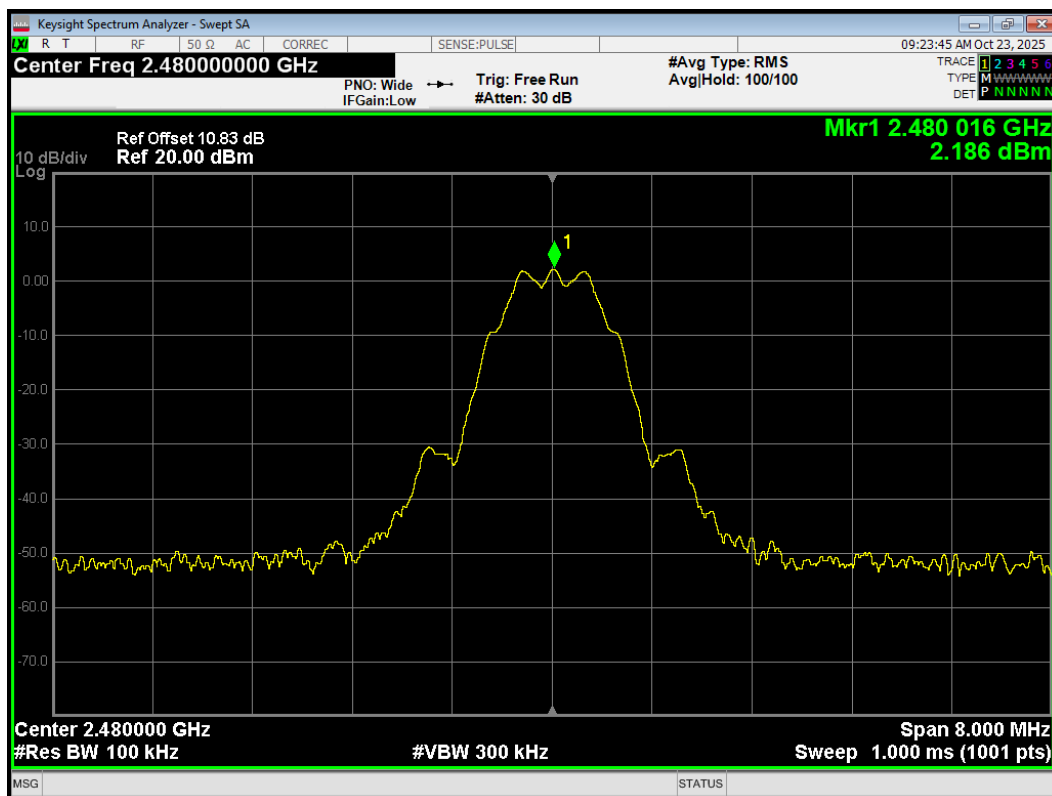
Band Edge BLE (S=8) 2402MHz Ref



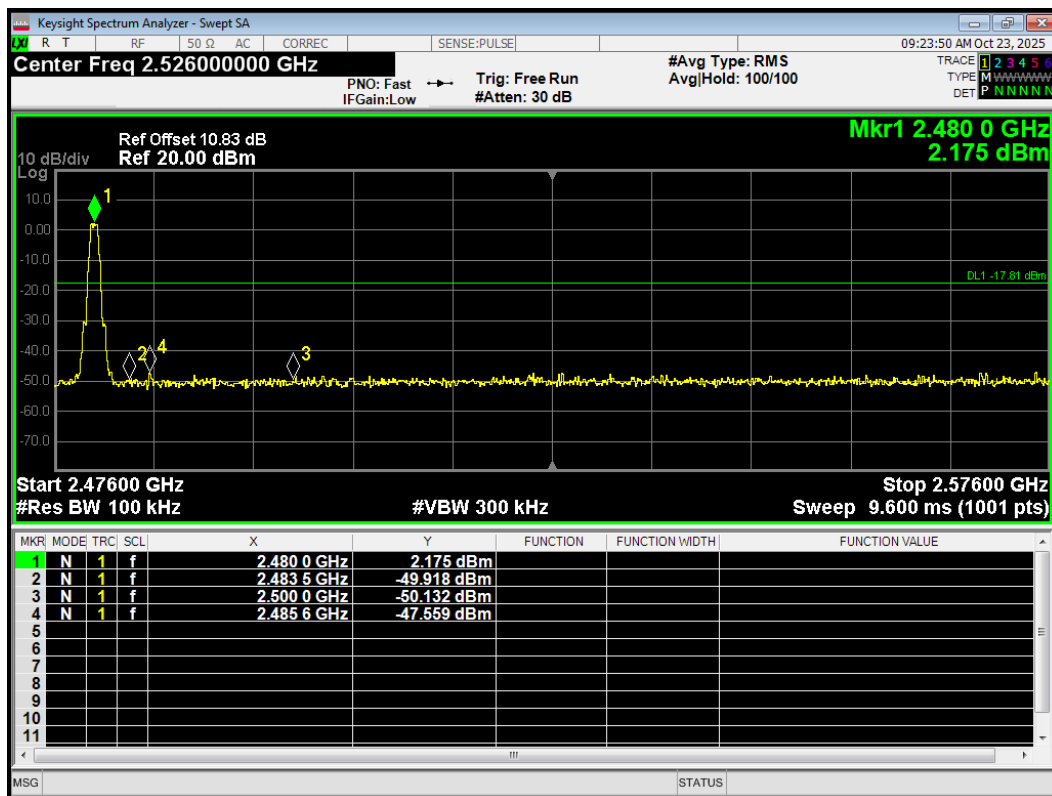
Band Edge BLE (S=8) 2402MHz Emission



Band Edge BLE (S=8) 2480MHz Ref



Band Edge BLE (S=8) 2480MHz Emission

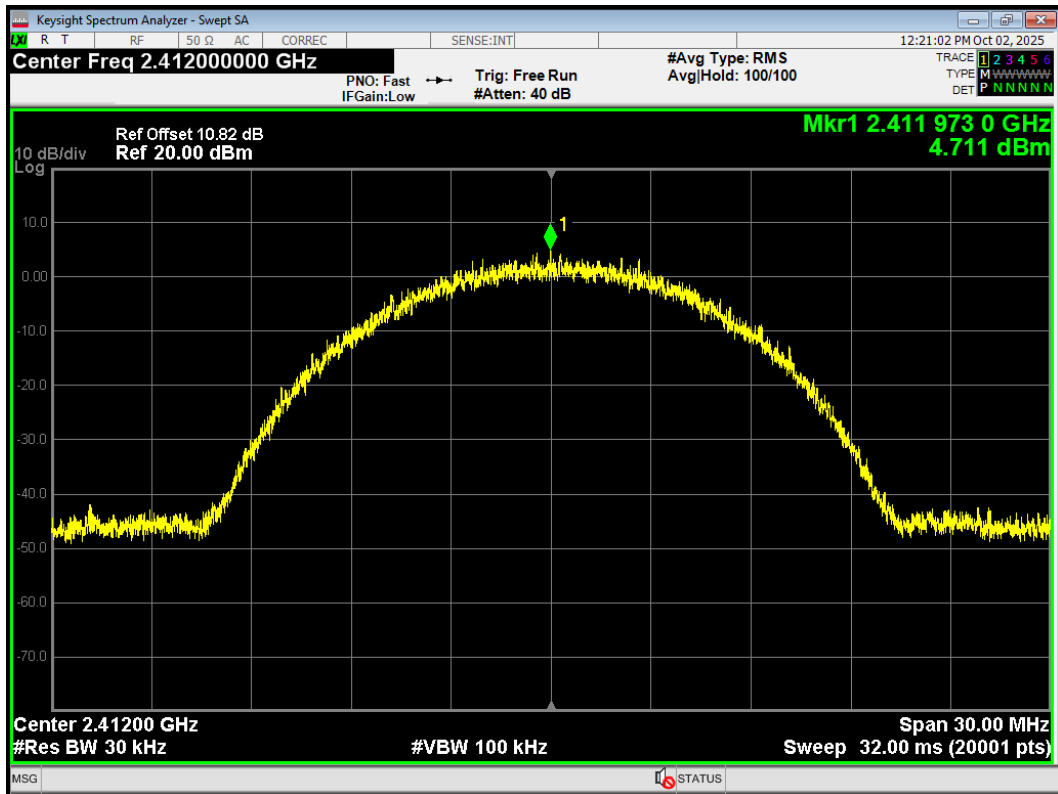


6.4. Power Spectral Density

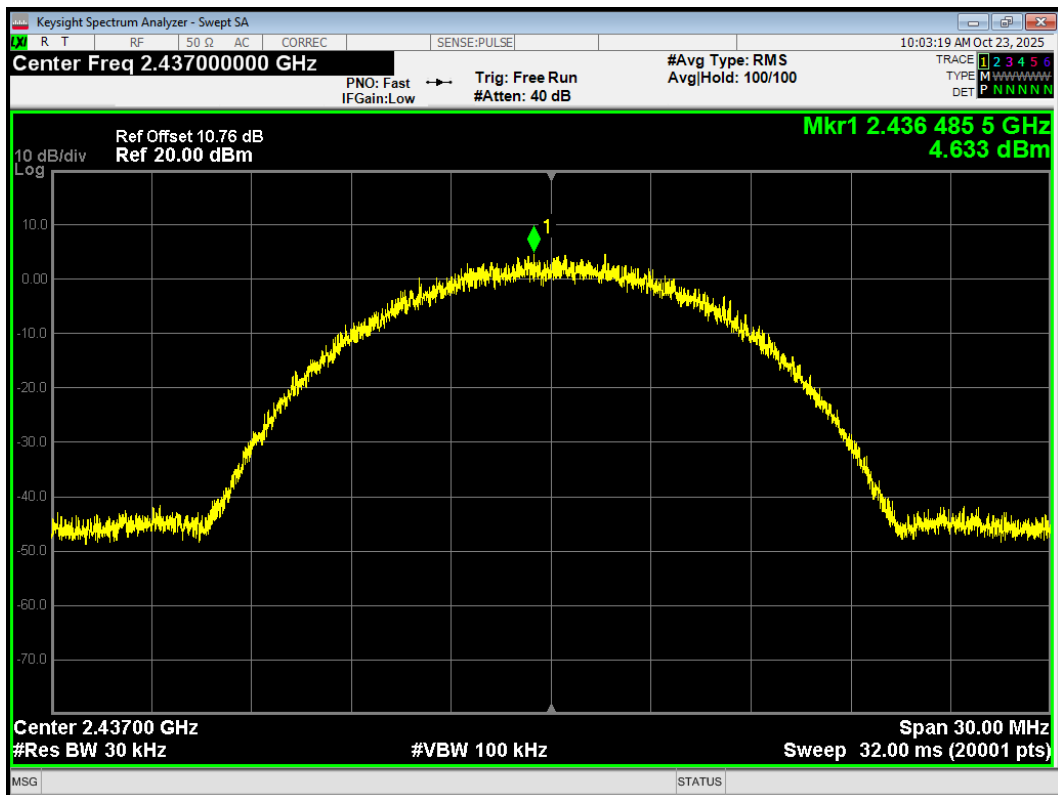
Test Mode	Carrier frequency (MHz)/ Channel	Read Value (dBm / 30kHz)	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
802.11b	2412/CH 1	4.71	-5.29	8	PASS
	2437/CH 6	4.63	-5.37	8	PASS
	2462/CH11	5.13	-4.87	8	PASS
802.11g	2412/CH 1	1.35	-8.65	8	PASS
	2437/CH 6	1.62	-8.38	8	PASS
	2462/CH11	1.37	-8.63	8	PASS
802.11n HT20	2412/CH 1	1.67	-8.33	8	PASS
	2437/CH 6	1.24	-8.76	8	PASS
	2462/CH11	1.95	-8.05	8	PASS
Note: Power Spectral Density (dBm/3kHz) =Read Value + 10*log10(3/30)					

Test Mode	Carrier frequency (MHz)/ Channel	Power Spectral Density (dBm / 3kHz)	Limit (dBm / 3kHz)	Conclusion
Bluetooth (Low Energy) (1M)	2402/CH0	-9.87	8	PASS
	2440/CH19	-8.82	8	PASS
	2480/CH39	-9.26	8	PASS
Bluetooth (Low Energy) (2M)	2404/CH1	-13.28	8	PASS
	2440/CH19	-12.42	8	PASS
	2478/CH38	-12.86	8	PASS
Bluetooth (Low Energy) (S=2)	2402/CH0	-1.20	8	PASS
	2440/CH19	-0.15	8	PASS
	2480/CH39	-0.64	8	PASS
Bluetooth (Low Energy) (S=8)	2402/CH0	-1.14	8	PASS
	2440/CH19	-0.04	8	PASS
	2480/CH39	-0.54	8	PASS

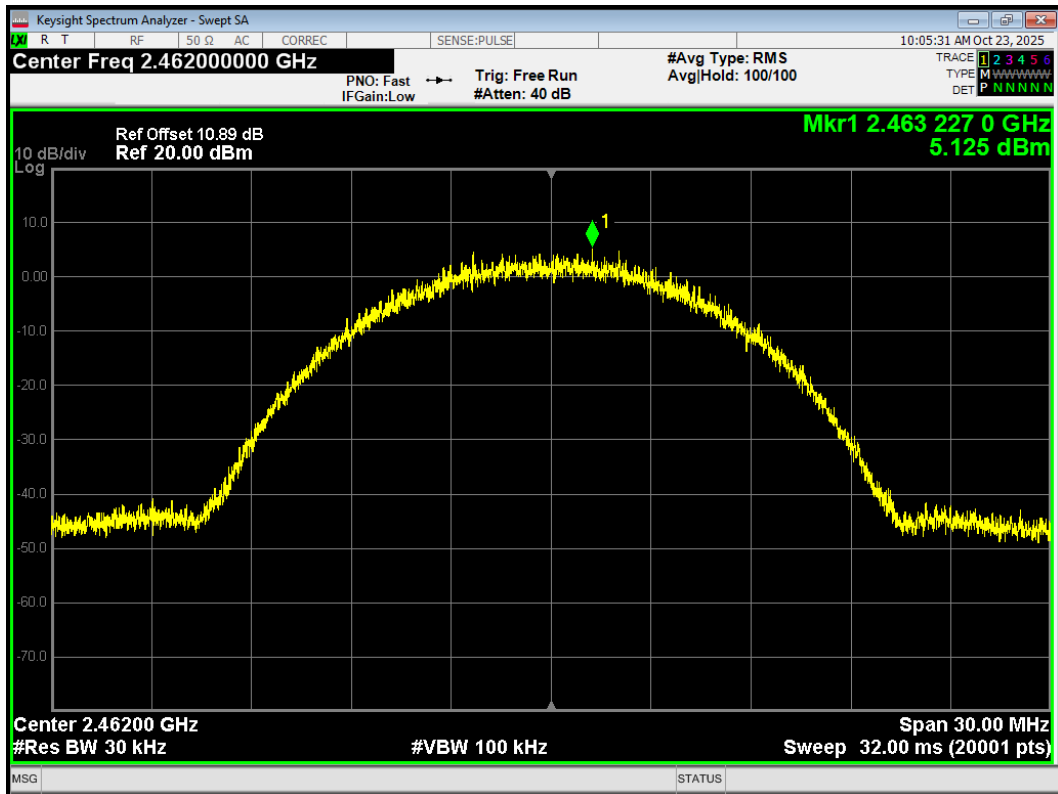
PSD 802.11b 2412MHz



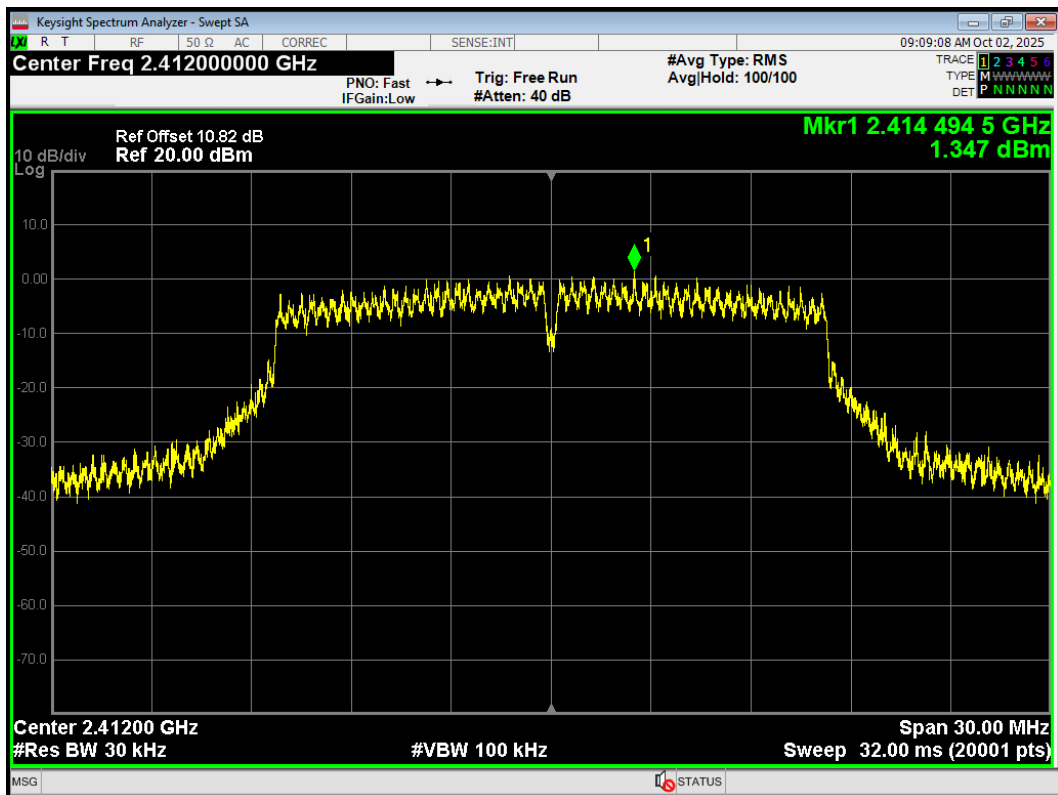
PSD 802.11b 2437MHz



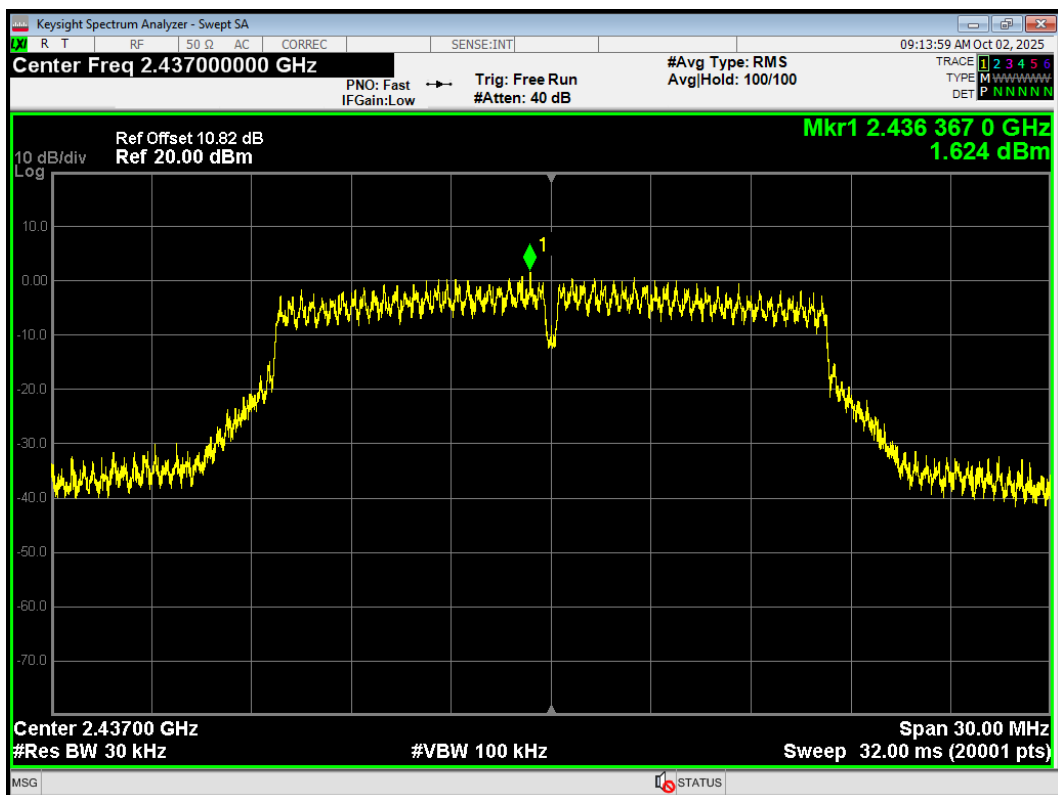
PSD 802.11b 2462MHz



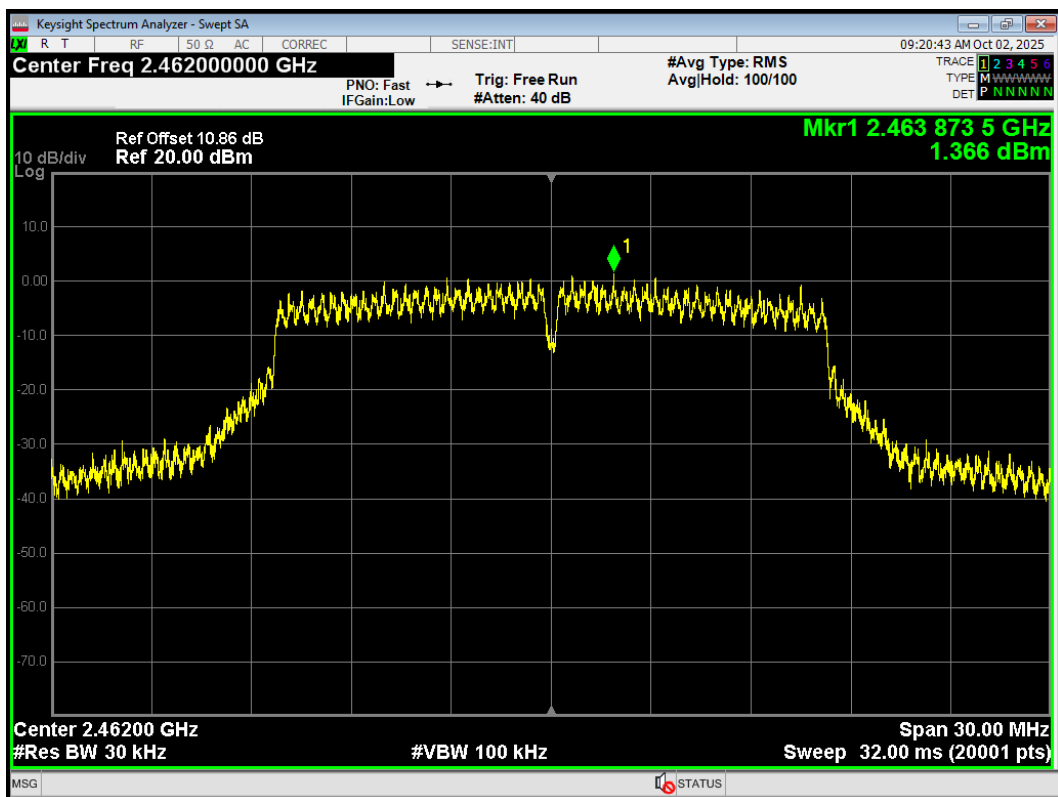
PSD 802.11g 2412MHz



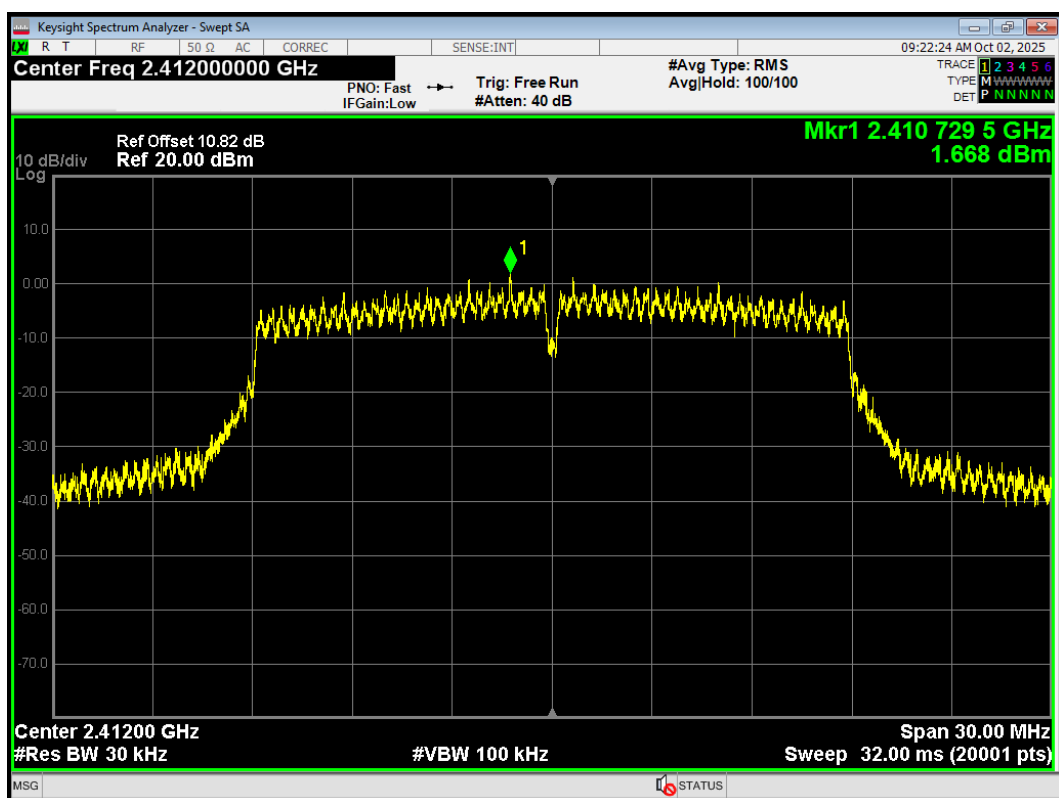
PSD 802.11g 2437MHz



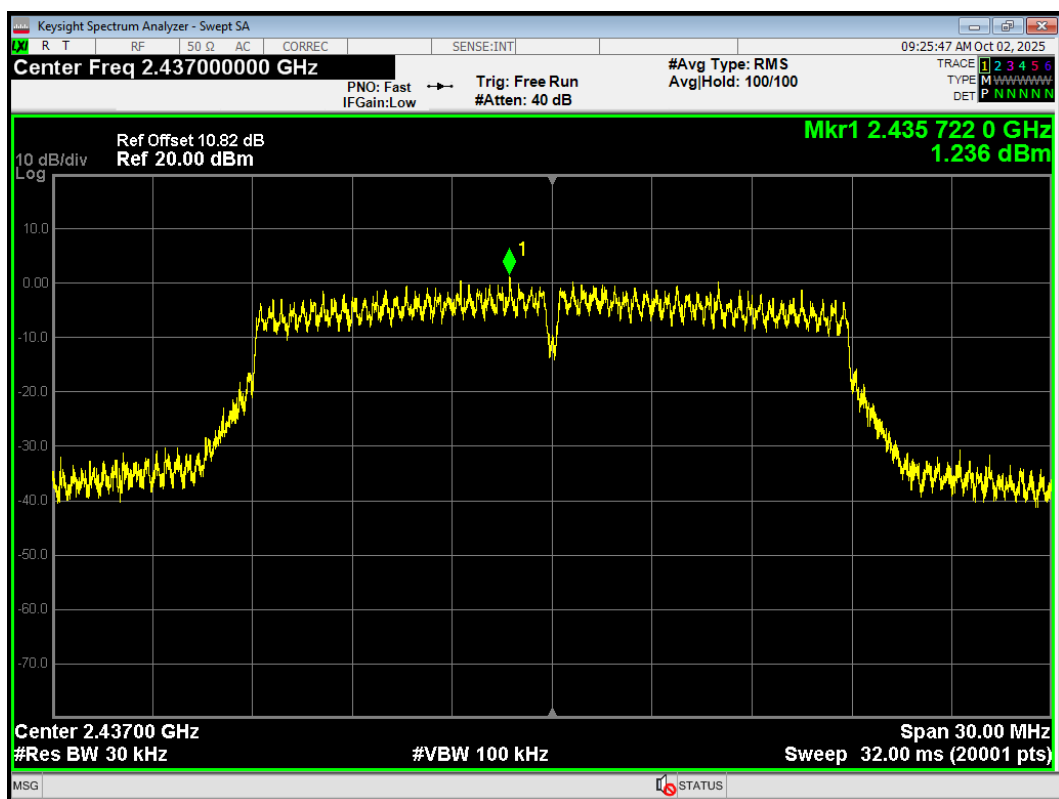
PSD 802.11g 2462MHz



PSD 802.11n(HT20) 2412MHz



PSD 802.11n(HT20) 2437MHz



PSD 802.11n(HT20) 2462MHz

