RF TEST REPORT

Applicant	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25P3MIXH
Product	Smart POS Terminal
Brand	SUNMI
Model	T6721
Report No.	EFTA25090010-IE-02-R2
Issue Date	December 26, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2025)**. 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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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Duty Cycle	C63.10 11.6	PASS
2	Maximum output power	15.247(b)(3)	PASS
3	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	PASS
4	Power spectral density	15.247(e)	PASS
5	Band Edge	15.247(d)	PASS
6	Spurious RF Conducted Emissions	15.247(d)	PASS
7	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
8	Conducted Emissions	15.207	PASS
Date of Testing: September 6, 2025 ~ December 6, 2025 Date of Sample Received: September 1, 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.			

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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.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
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E-mail:	Kain.Xu@cpt.eurofinscn.com

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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Shanghai Sunmi Technology Co., Ltd.
Applicant address	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer	Shanghai Sunmi Technology Co., Ltd.
Manufacturer address	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China

2.2. General Information

EUT Description		
Model	T6721	
SN	Conducted	PF25257G20015
	Radiated	PF21256J20011
Hardware Version	Bgf6e	
Software Version	P3_MIX_STD_user_HyperWi-Fi_v054_1.0.5_174_20250703	
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	1.20 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: 18.79 dBm Bluetooth LE: 6.20 dBm	
Operating voltage range	6.8 Vdc to 8.0 Vdc	
State voltage	7.2 Vdc	
EUT Accessory		
Adapter 1	Manufacturer: SHENZHEN TIANYIN ELECTRONICS CO., LTD. Model: TPA-23A050200UU01 Input: 100-240V~50/60Hz 0.3A Output: 5.0V⎓2.0A	

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Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: UC13US Input: 100-240V~50/60Hz 0.35A Output: 5.0V⎓2.0A 10.0W
Battery 1	Manufacturer: Guangdong Pow-Tech New Power Co., Ltd. Model: LKPA DC 7.2V, 2500mAh
Battery 2	Manufacturer: POWER GLORY BATTERY TECH(HK) CO LTD Model: CR2032 DC 3V, 220mAh
Battery 3	Manufacturer: JHIH HONG TECHNOLOGY CO LTD Model: CR2032 DC 3V, 220mAh
USB Cable	Manufacturer: Saibao (Jiangxi) Industry Co., LTD Model: SSM-A001A
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. Two-thirds of the batteries are backup batteries for financial tamper-proof authentication. When the main battery (Battery 1) is powered off, Batteries 2 and 3 are used to detect and trigger an alarm.	

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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 (2025) Radio Frequency Devices

ANSI C63.10-2020

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

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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

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5. Test Case

5.1. Duty Cycle

Ambient Condition

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

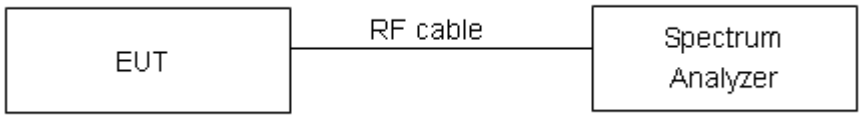
Methods of Measurement

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

The zero-span measurement

1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW
3) Set detector = peak or average

Test Setup



Limits

For Reporting purposes only

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.

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5.2. Maximum output power

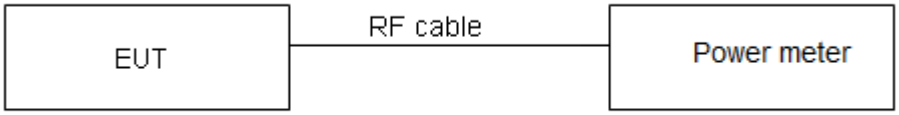
Ambient Condition

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.

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5.3. 99% Bandwidth and 6dB Bandwidth

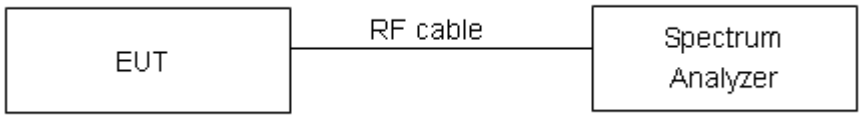
Ambient Condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer through a known loss cable.
For Emission Bandwidth and 99% Bandwidth, 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.
For DTS Bandwidth，The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the OBW but not less than 100kHz, the video bandwidth (VBW) shall not be smaller than three times the RBW value. The Trace mode is max hold.

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.

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5.4. Band Edge

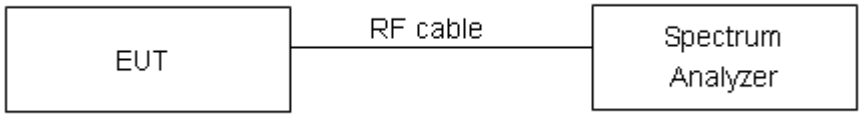
Ambient Condition

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

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5.5. 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

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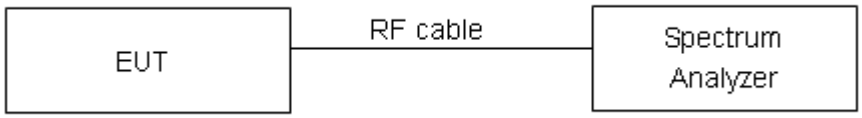
l) Add [10 log(1/ D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time

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.

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5.6. Spurious RF Conducted Emissions

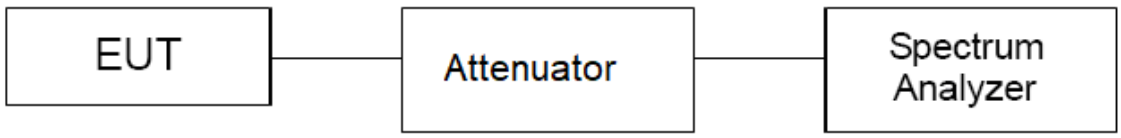
Ambient Condition

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
802.11b	2412	10.540	-19.46
	2437	9.750	-20.25
	2462	9.800	-20.2
802.11g	2412	4.030	-25.97
	2437	5.700	-24.3
	2462	4.660	-25.34
802.11n HT20	2412	3.950	-26.05
	2437	4.510	-25.49
	2462	2.920	-27.08

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802.11n HT40	2422	0.270	-29.73
	2437	0.760	-29.24
	2452	-0.070	-30.07
Bluetooth (Low Energy)	2402	6.190	-23.81
	2440	5.290	-24.71
	2480	5.120	-24.88

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

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5.7. 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

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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.

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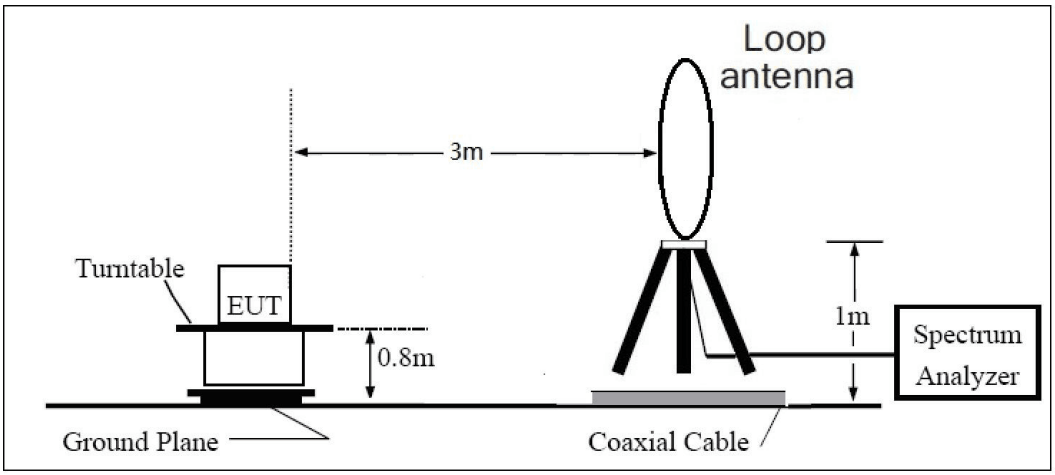
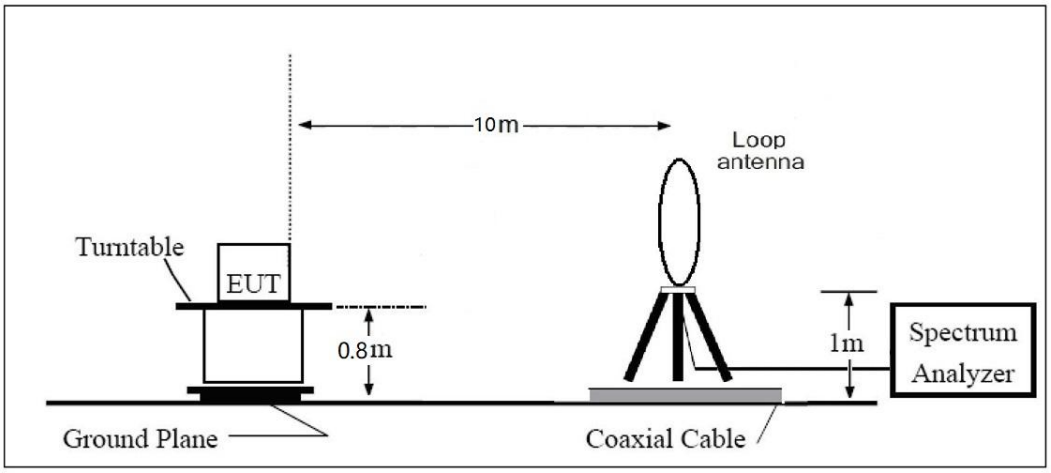
Test Setup

9kHz~ 30MHz



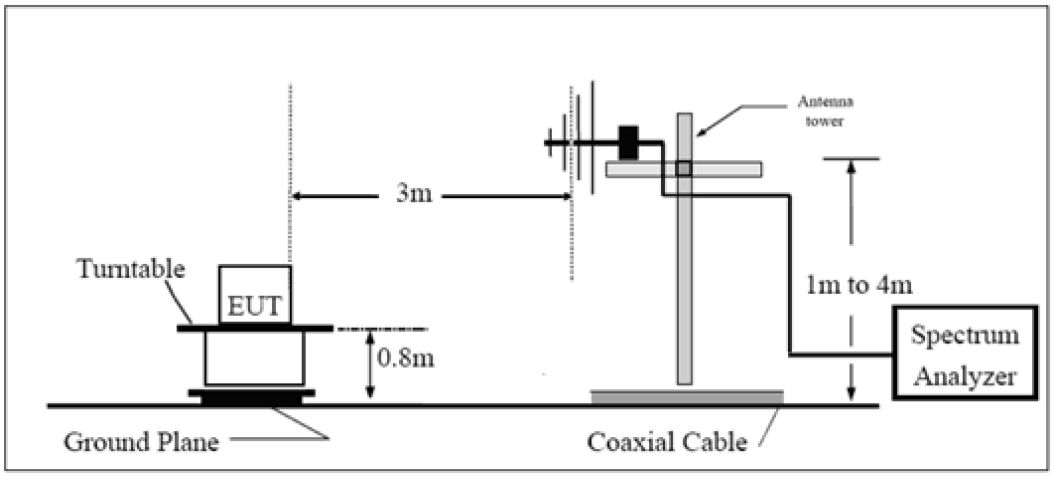
Note: Area side:2.4mX3.6m

Distance 10m



Note: Area side: 21m x 12m

30MHz~ 1GHz



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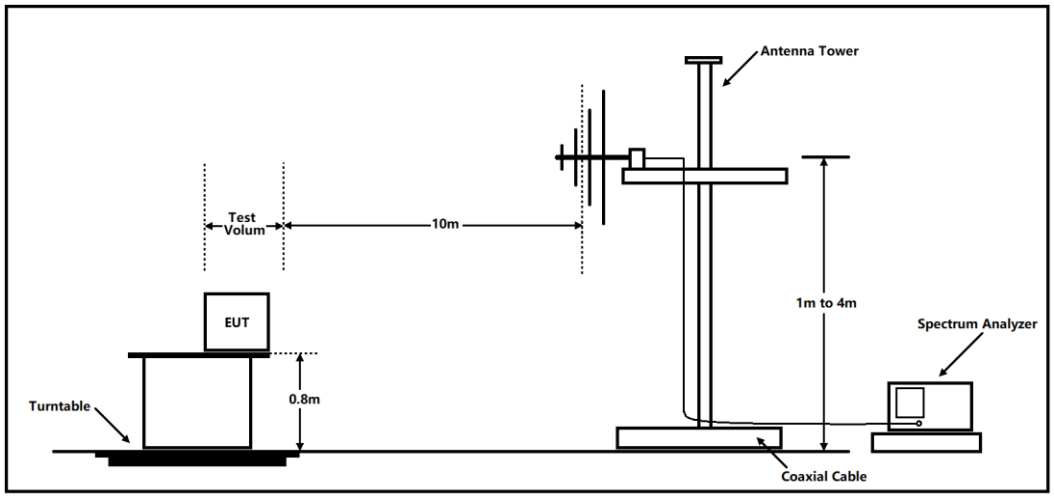
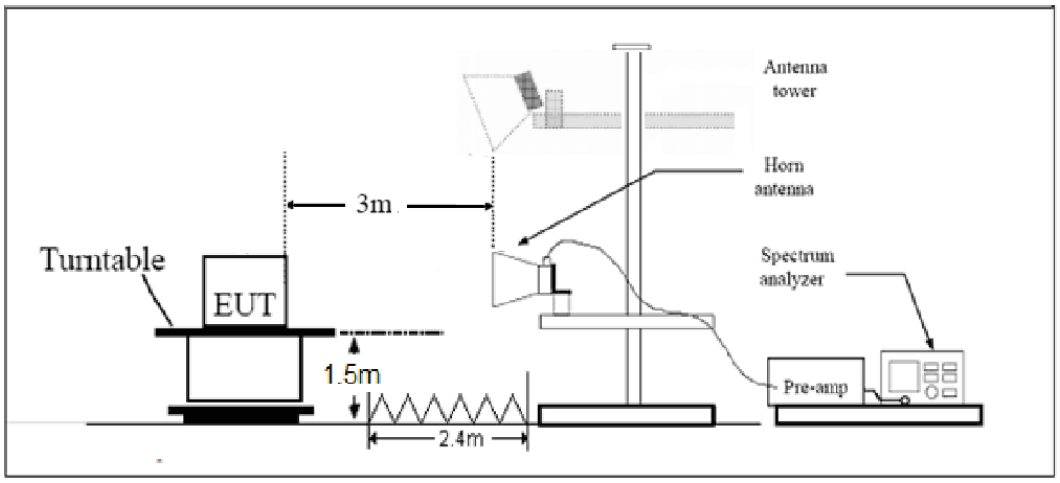
Note: Area side:2.4mX3.6m

Distance 10m



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side:2.4mX3.6m

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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

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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			

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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* = 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

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5.8. Conducted Emission

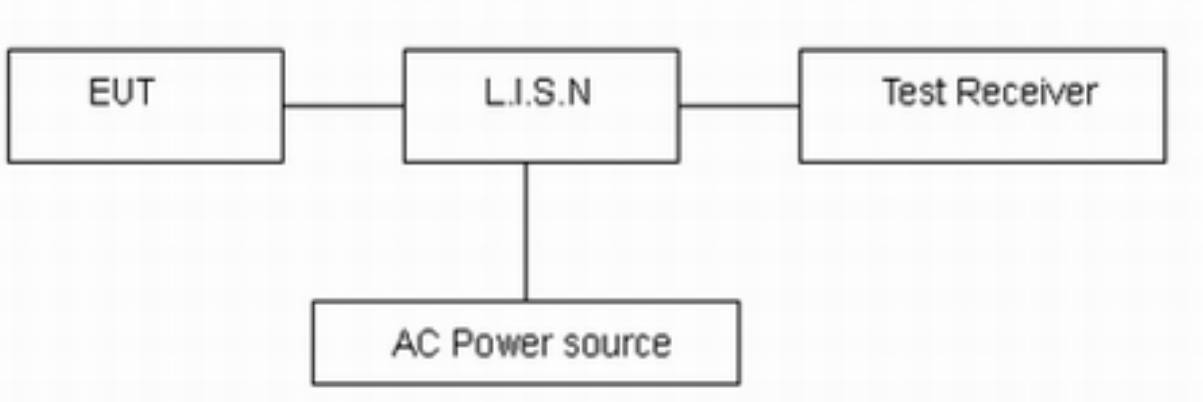
Ambient Condition

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(dBμV)	
	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.

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6. Test Results

6.1. Duty Cycle

Test Mode	T_{on} (msec)	Period (msec)	Duty cycle (%)	Duty cycle correction Factor(dB)
802.11b	12.44	12.57	0.99	0.00
802.11g	2.07	2.10	0.99	0.00
802.11n HT20	1.89	1.92	0.98	0.00
802.11n HT40	0.95	1.00	0.95	0.23
Bluetooth (Low Energy)	0.392	0.625	0.628	2.02
Note: when Duty cycle>0.98, Duty cycle correction Factor not required.				

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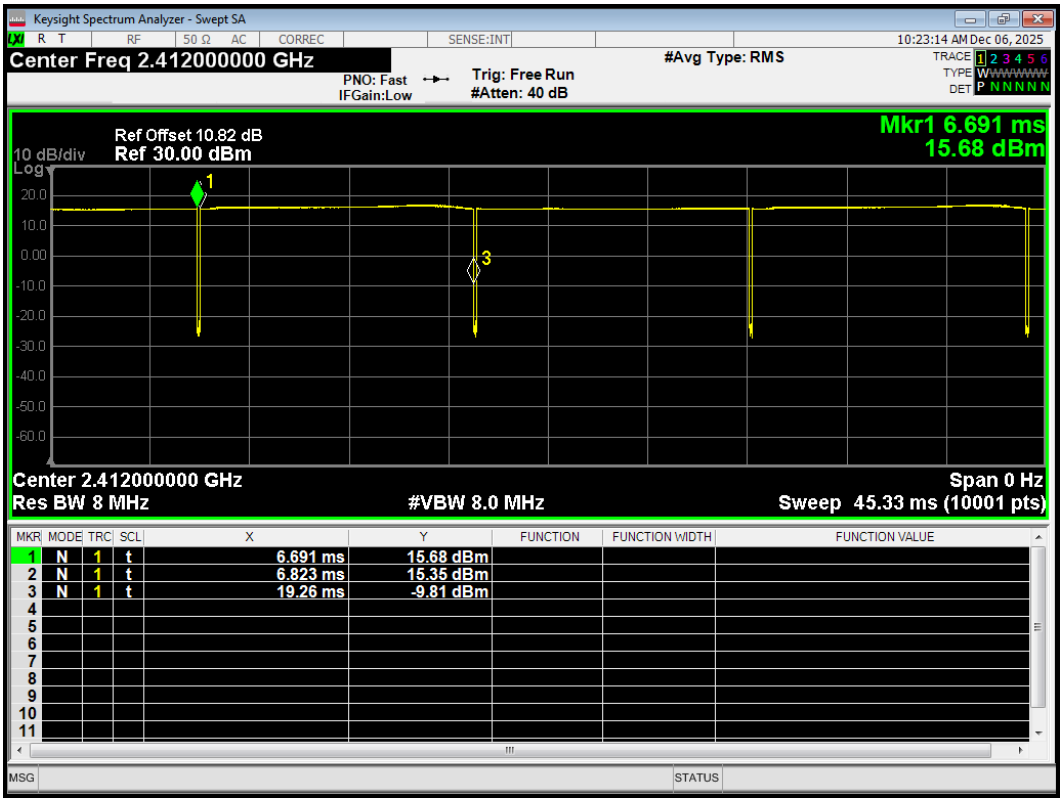
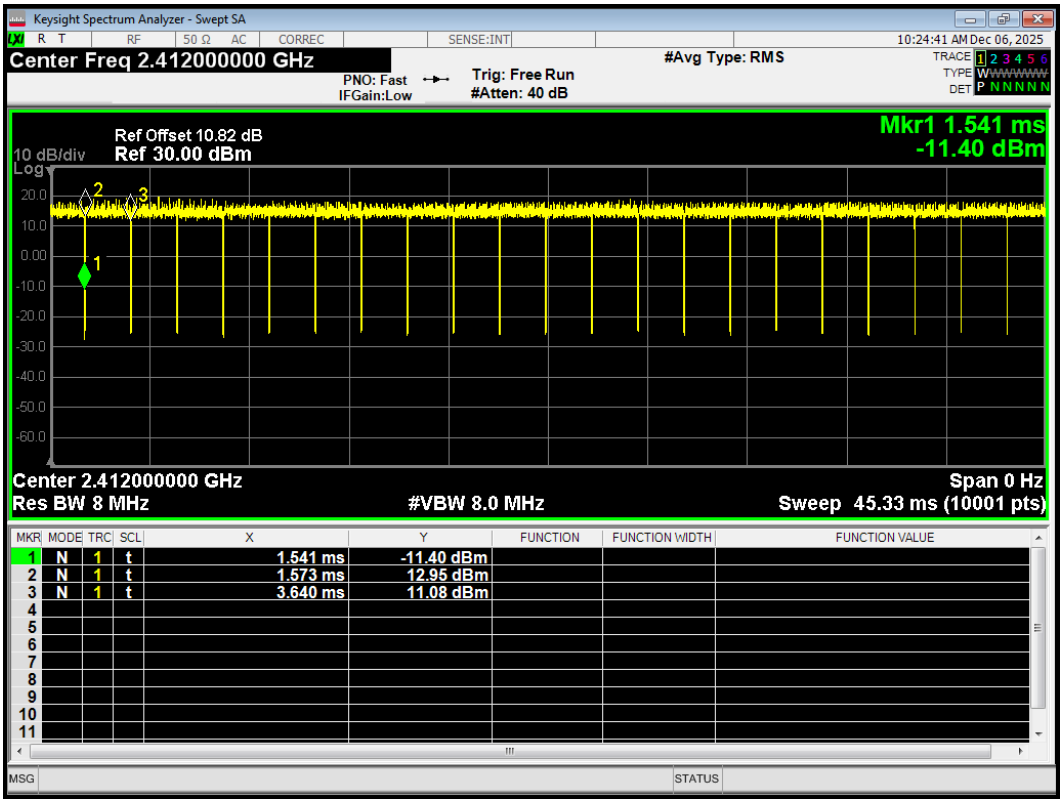
Duty Cycle 802.11b 2412MHz



Duty Cycle 802.11g 2412MHz



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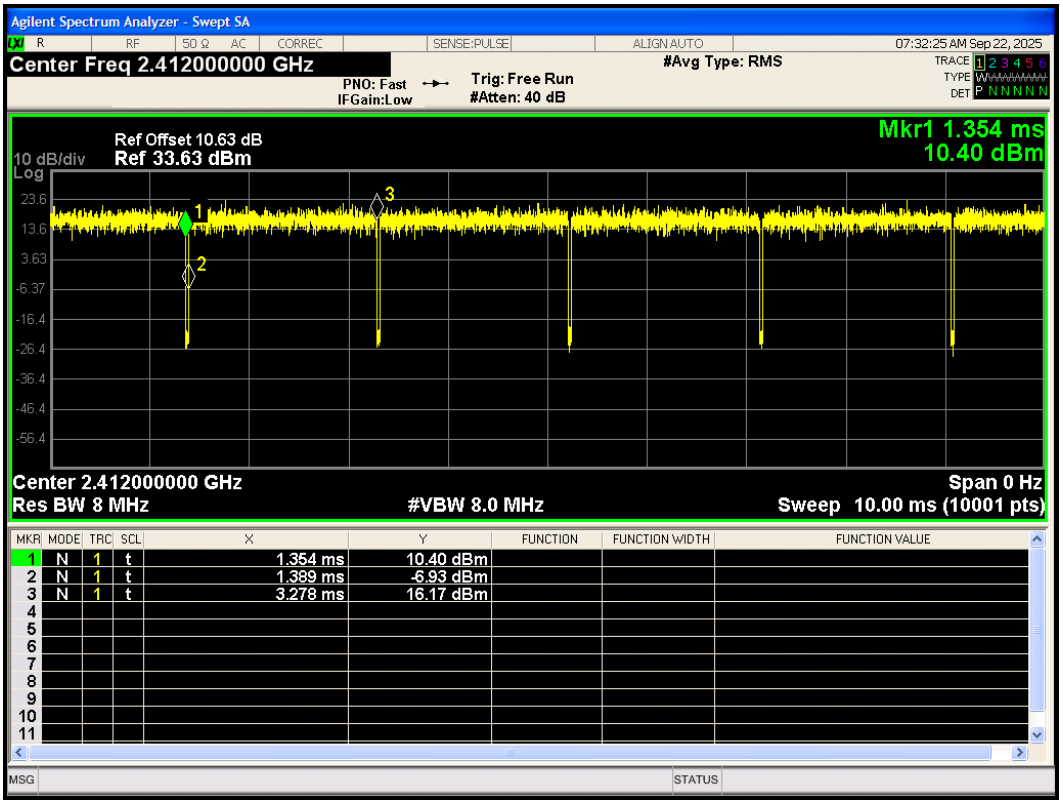
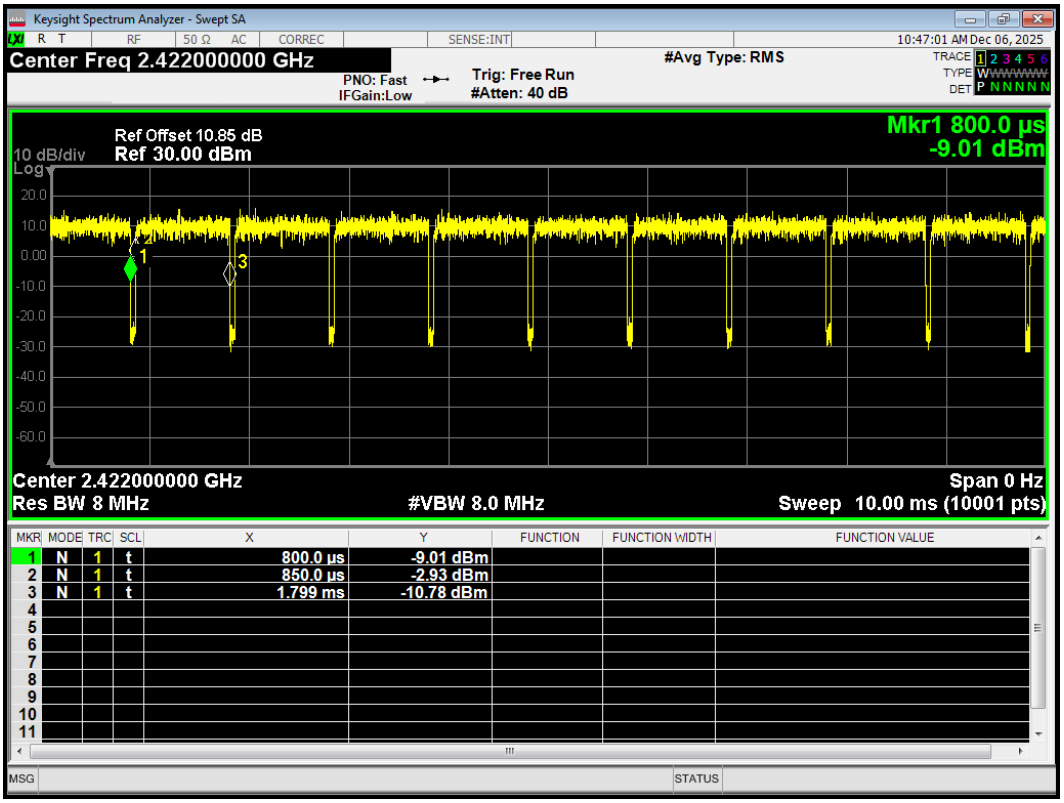
Duty Cycle 802.11n(HT20) 2412MHz



Duty Cycle 802.11n(HT40) 2422MHz



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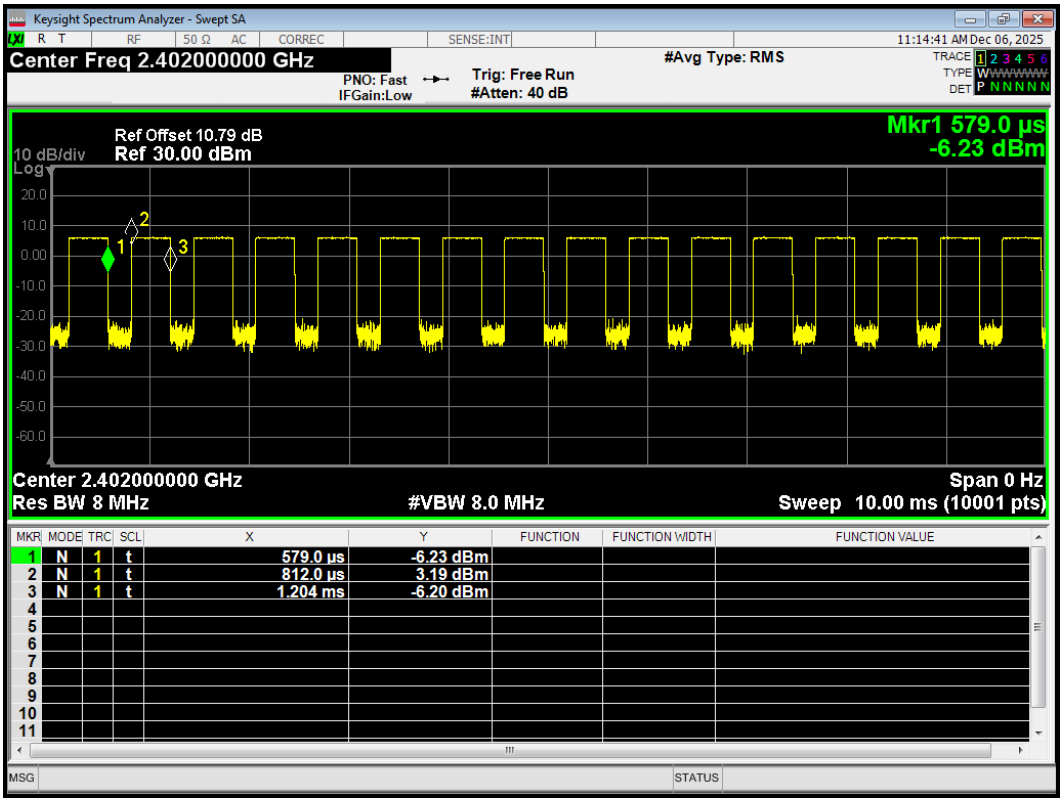
Duty Cycle BLE 2402MHz



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6.2. Maximum output power

Power Index					
Channel	**802.11b**	**802.11g**	**802.11n HT20**	**Channel**	**802.11n HT40**
CH1	17	15	14	**CH3**	14
CH6	17	15	14	**CH6**	14
CH11	17	15	14	**CH9**	14

Power Index	
Channel	**Bluetooth (Low Energy)**
CH0	default
CH19	default
CH39	default

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Test Mode	Carrier frequency (MHz)/ Channel	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11b	2412/CH 1	18.79	18.79	30	PASS
	2437/CH 6	18.67	18.67	30	PASS
	2462/CH11	18.03	18.03	30	PASS
802.11g	2412/CH 1	16.71	16.71	30	PASS
	2437/CH 6	16.76	16.76	30	PASS
	2462/CH11	16.05	16.05	30	PASS
802.11n HT20	2412/CH 1	15.52	15.52	30	PASS
	2437/CH 6	15.68	15.68	30	PASS
	2462/CH11	14.72	14.72	30	PASS
802.11n HT40	2422/CH3	15.24	15.47	30	PASS
	2437/CH6	15.52	15.75	30	PASS
	2452/CH9	14.97	15.20	30	PASS
Bluetooth (Low Energy)	2402/CH0	4.18	6.20	30	PASS
	2440/CH19	3.21	5.23	30	PASS
	2480/CH39	3.10	5.12	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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6.3. 99% Bandwidth and 6dB Bandwidth

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	14.181	9.129	500	PASS
	2437	14.371	9.149	500	PASS
	2462	14.065	8.687	500	PASS
802.11g	2412	16.835	16.435	500	PASS
	2437	17.006	16.407	500	PASS
	2462	16.951	16.453	500	PASS
802.11n HT20	2412	17.933	17.659	500	PASS
	2437	18.122	17.632	500	PASS
	2462	18.034	17.671	500	PASS
802.11n HT40	2422	36.617	36.479	500	PASS
	2437	36.698	36.525	500	PASS
	2452	36.589	36.408	500	PASS
Bluetooth (Low Energy)	2402	1.035	0.661	500	PASS
	2440	1.036	0.658	500	PASS
	2480	1.036	0.678	500	PASS

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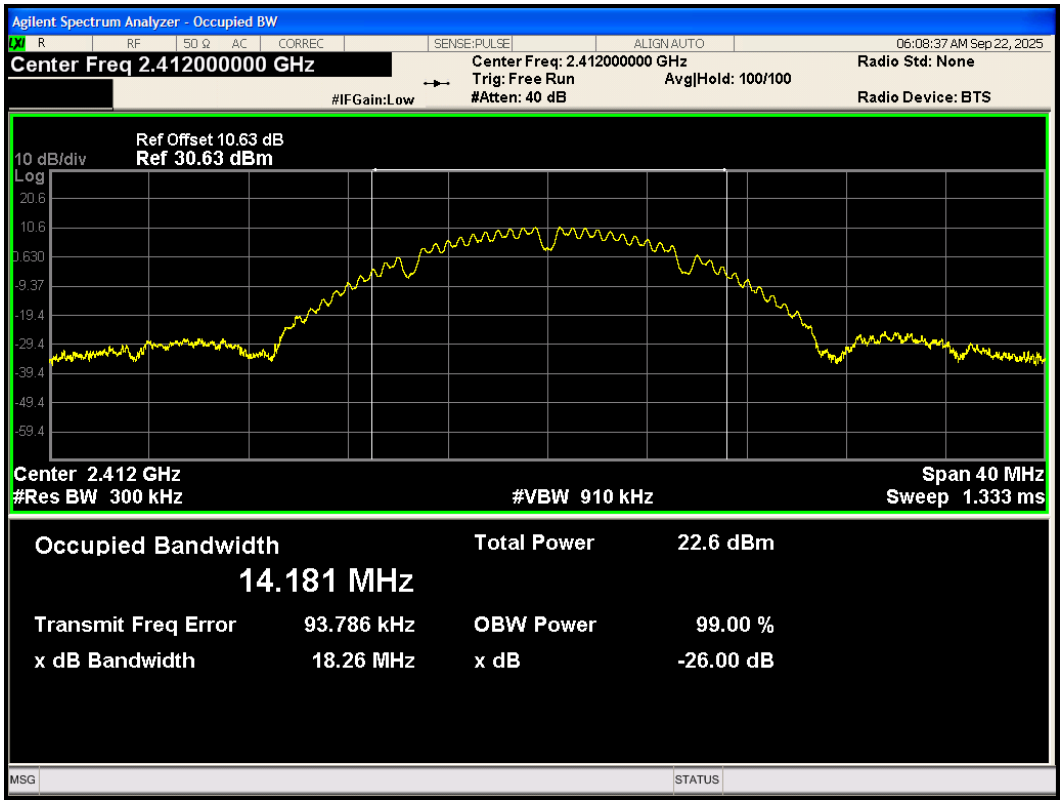
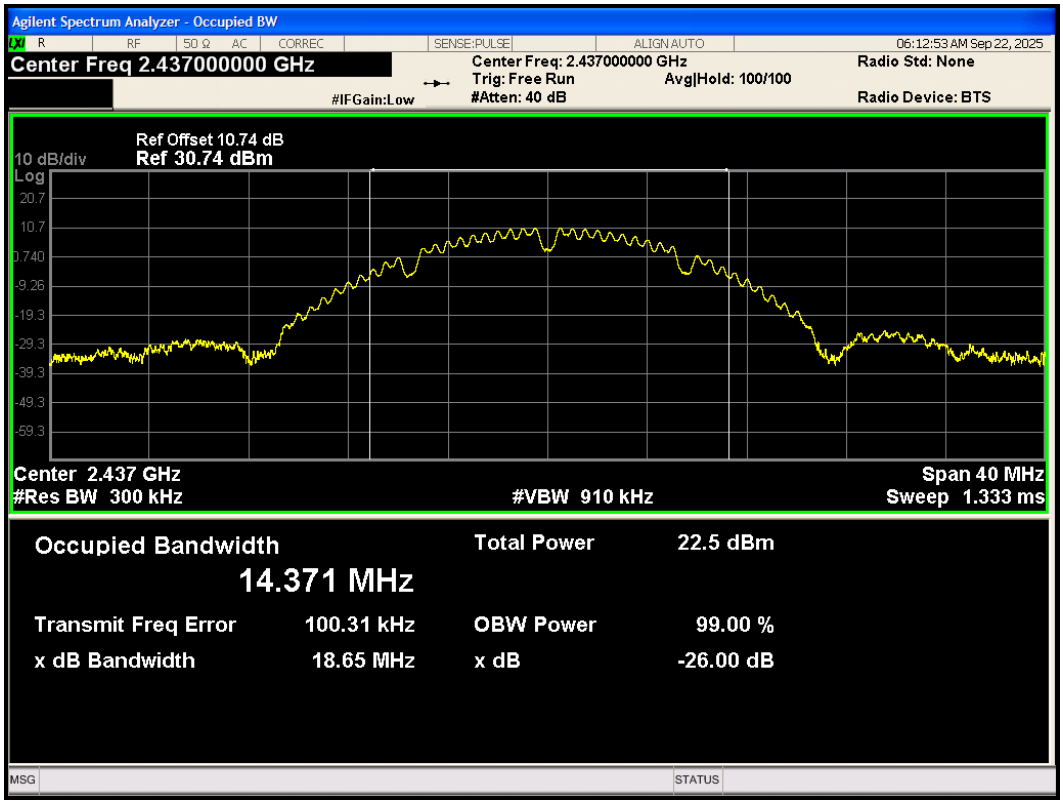
99%bandwidth

OBW 802.11b 2412MHz



OBW 802.11b 2437MHz



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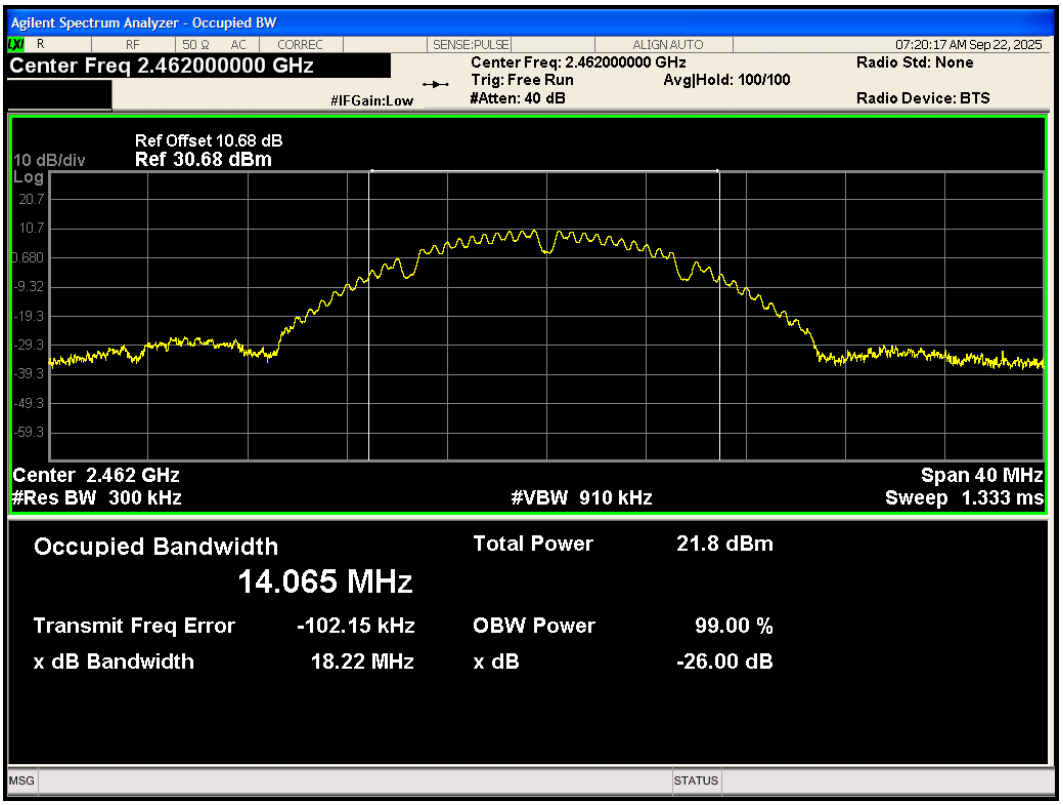
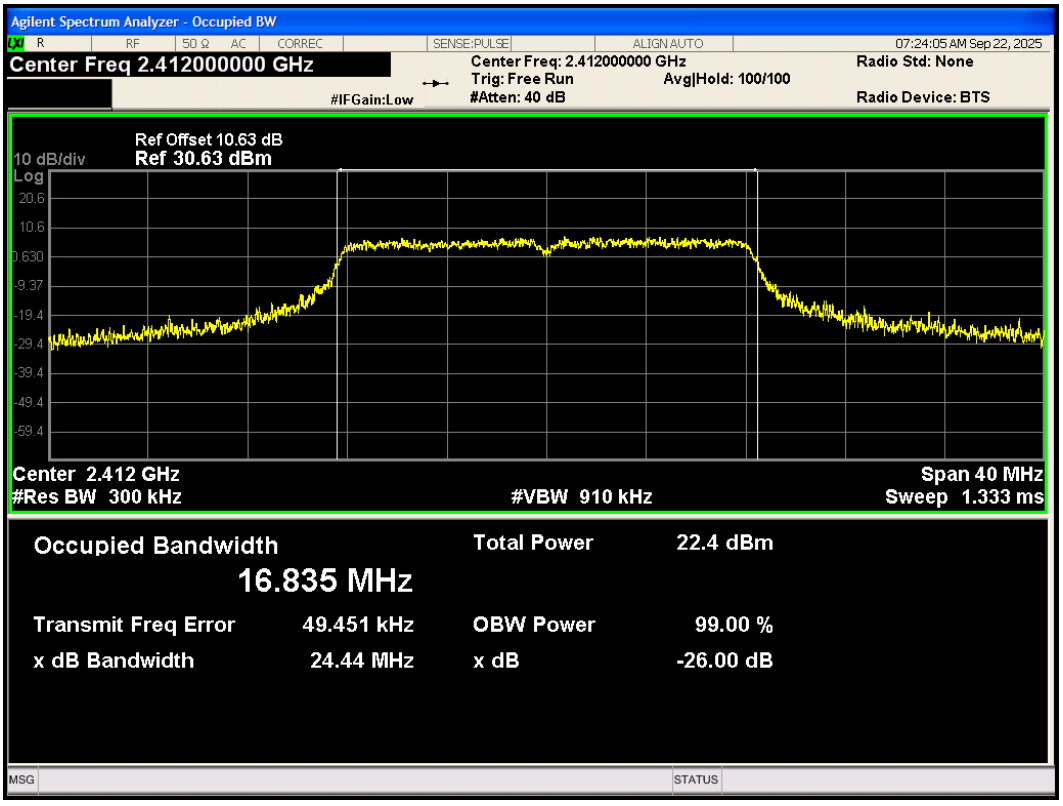
OBW 802.11b 2462MHz



OBW 802.11g 2412MHz



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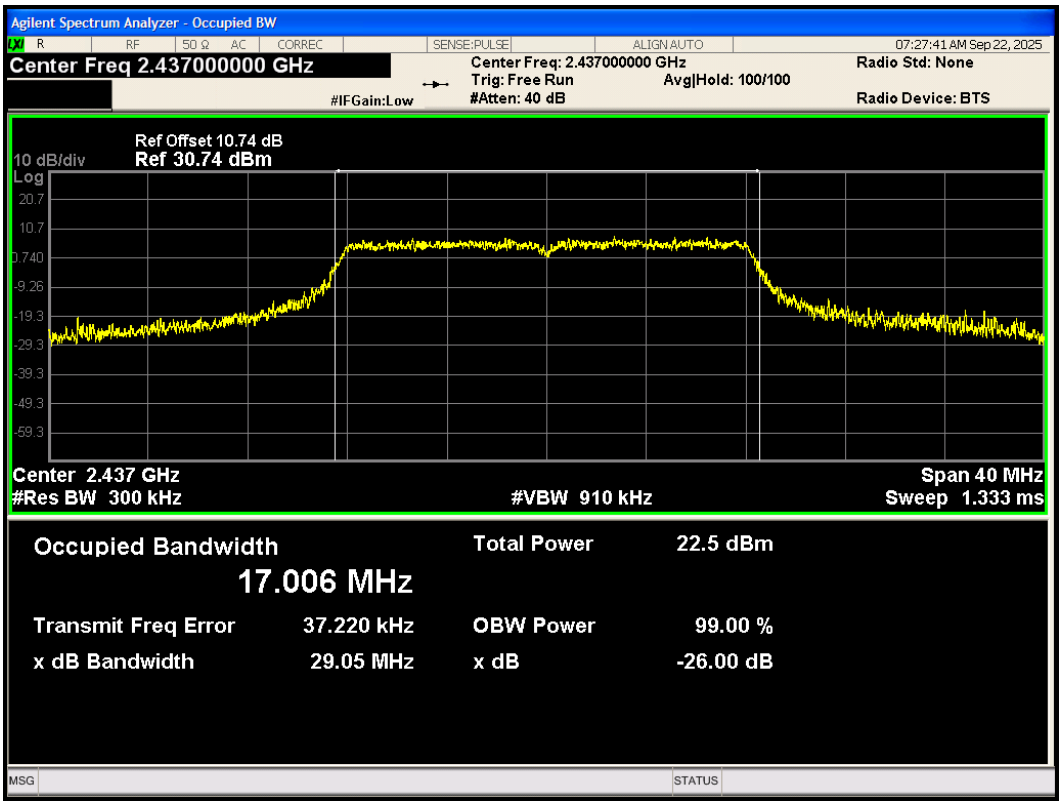
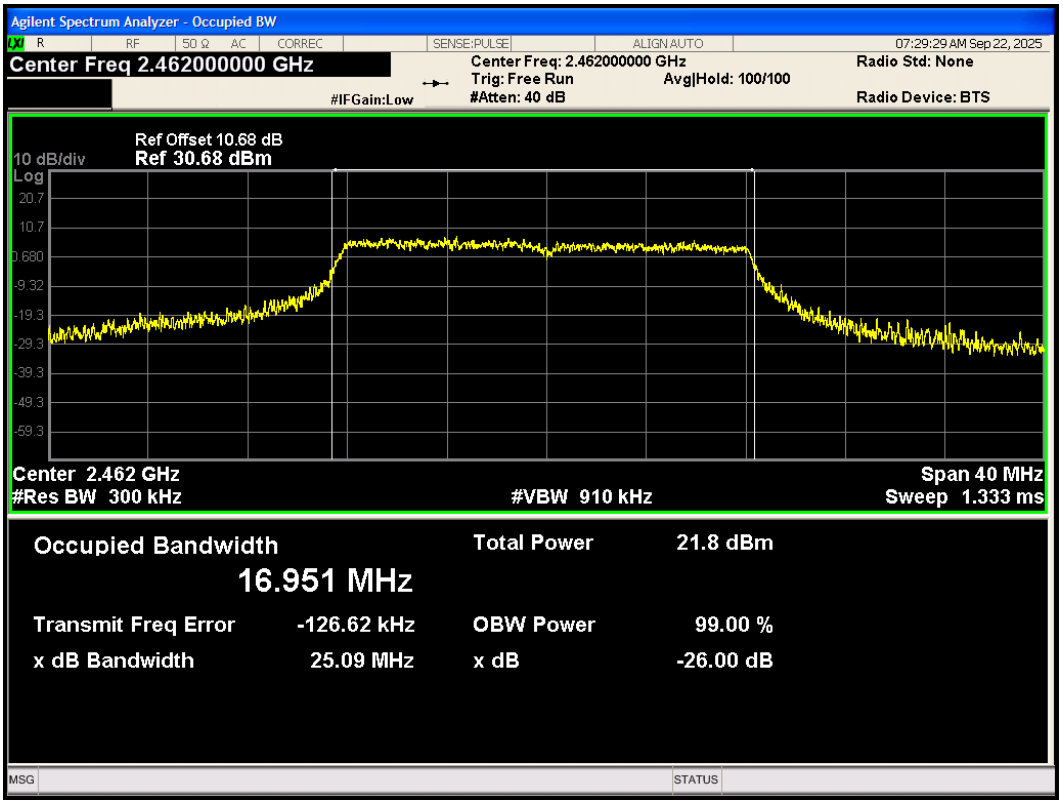
OBW 802.11g 2437MHz



OBW 802.11g 2462MHz



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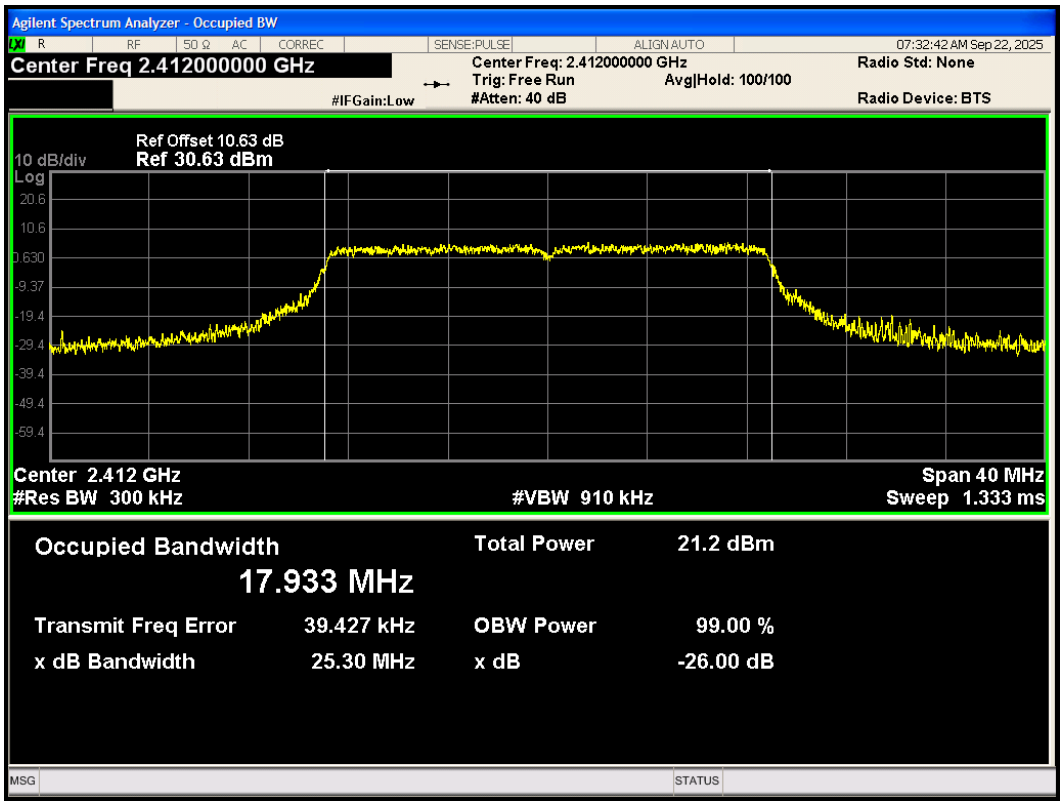
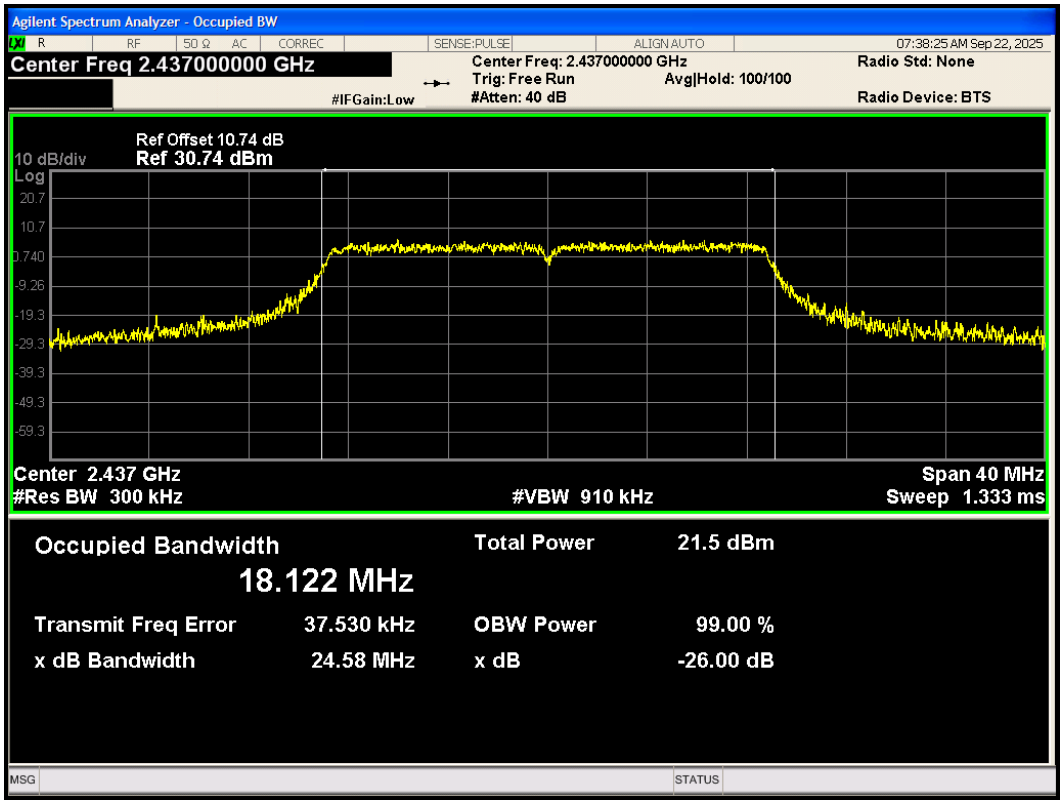
OBW 802.11n(HT20) 2412MHz



OBW 802.11n(HT20) 2437MHz



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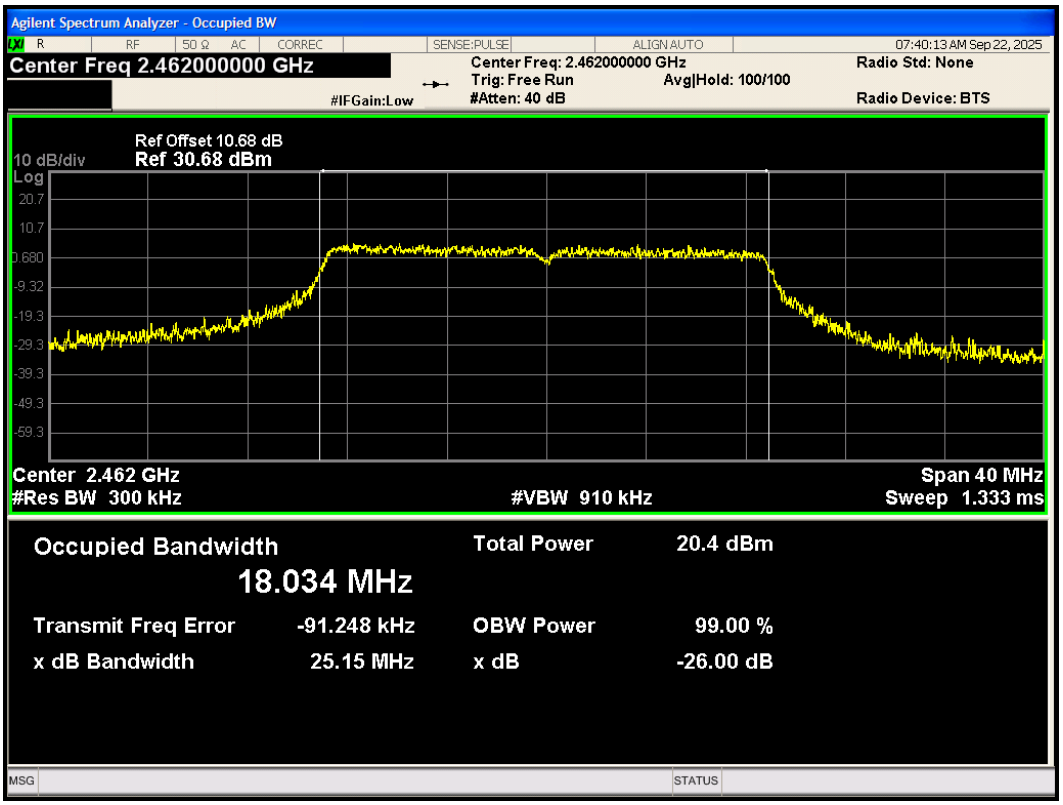
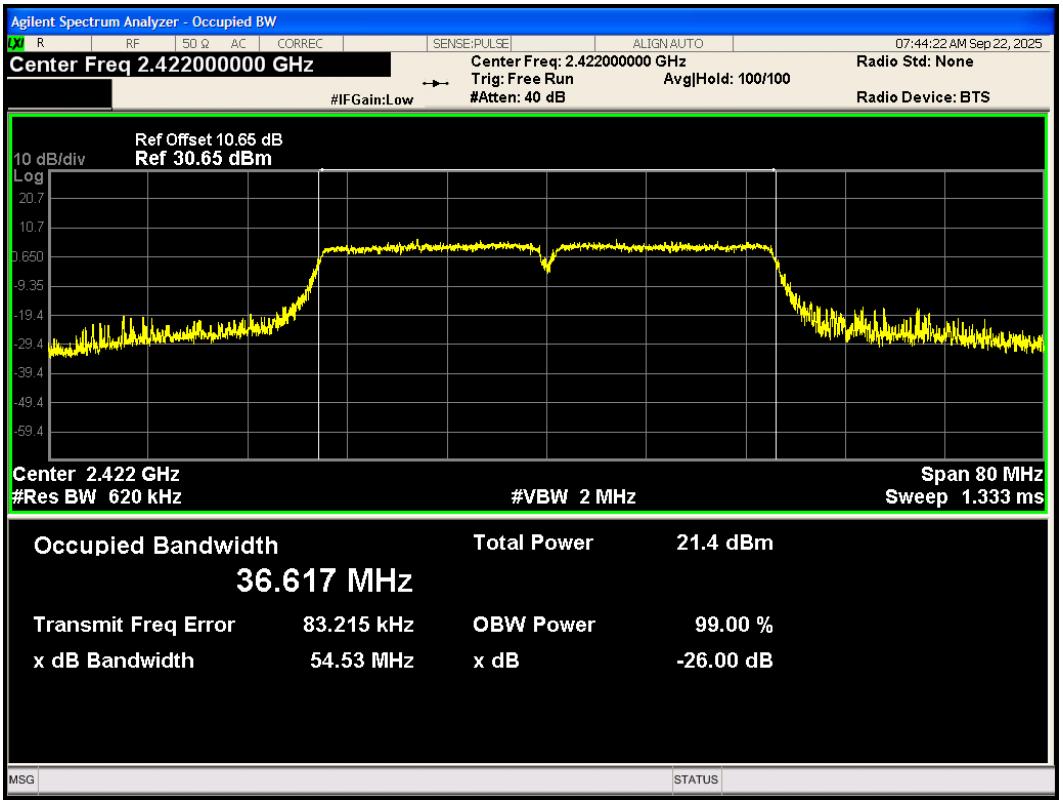
OBW 802.11n(HT20) 2462MHz



OBW 802.11n(HT40) 2422MHz



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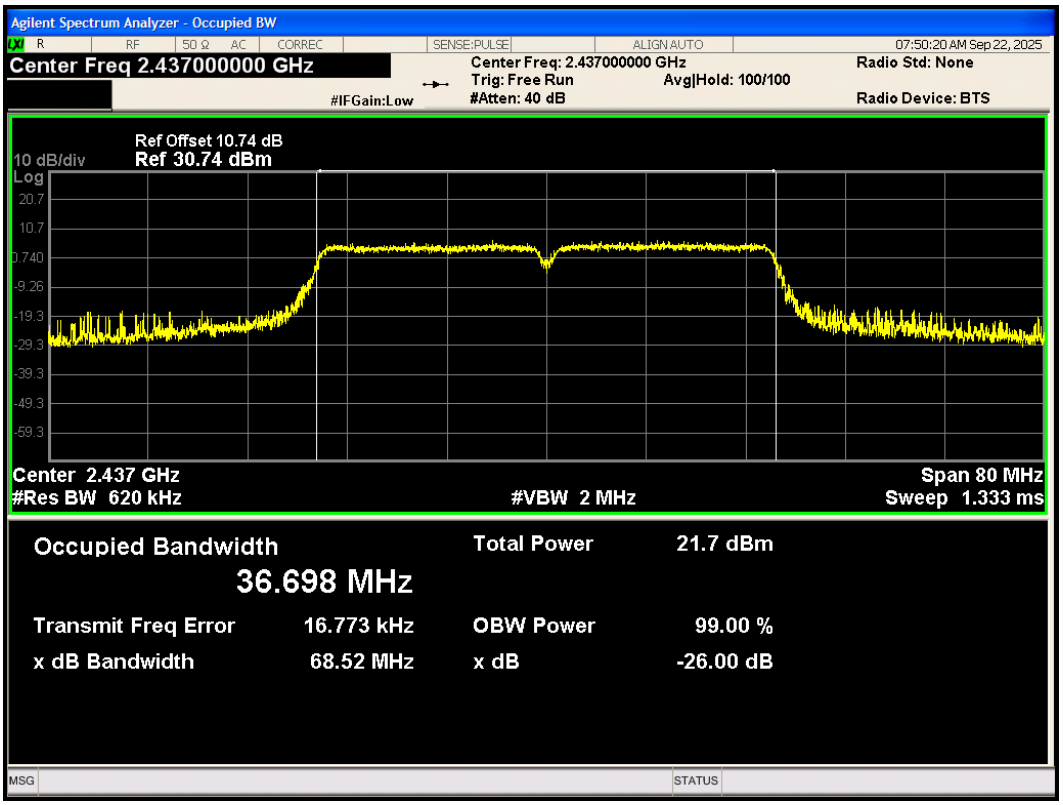
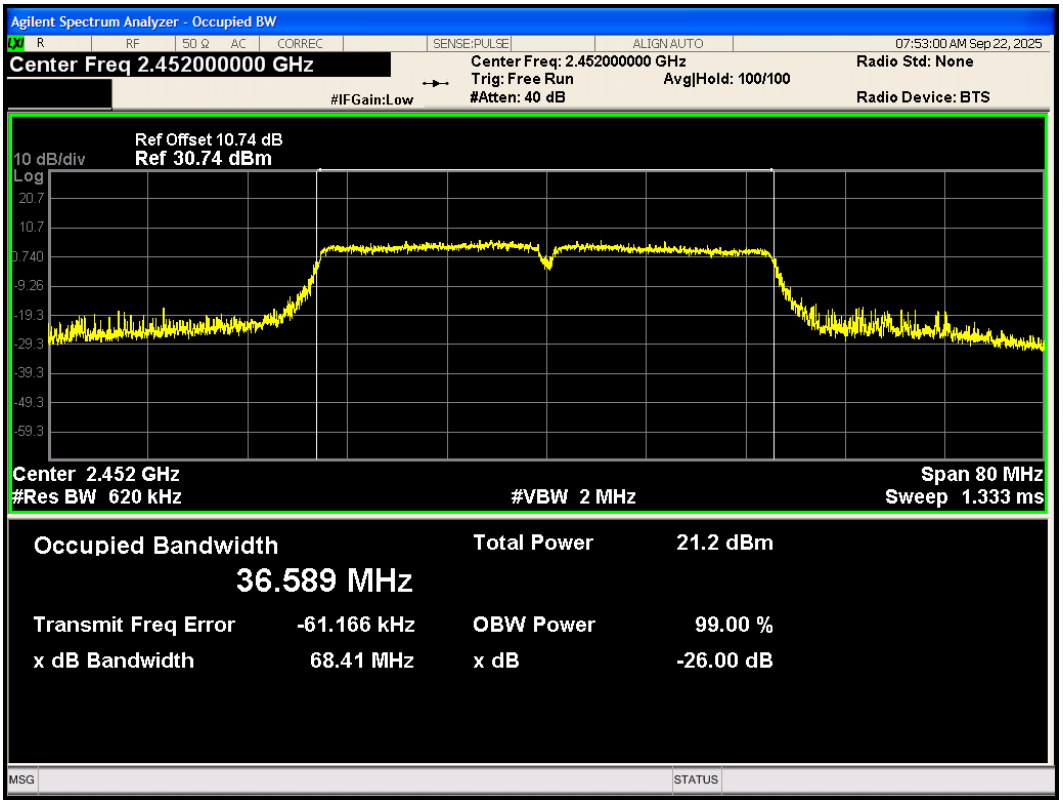
OBW 802.11n(HT40) 2437MHz



OBW 802.11n(HT40) 2452MHz



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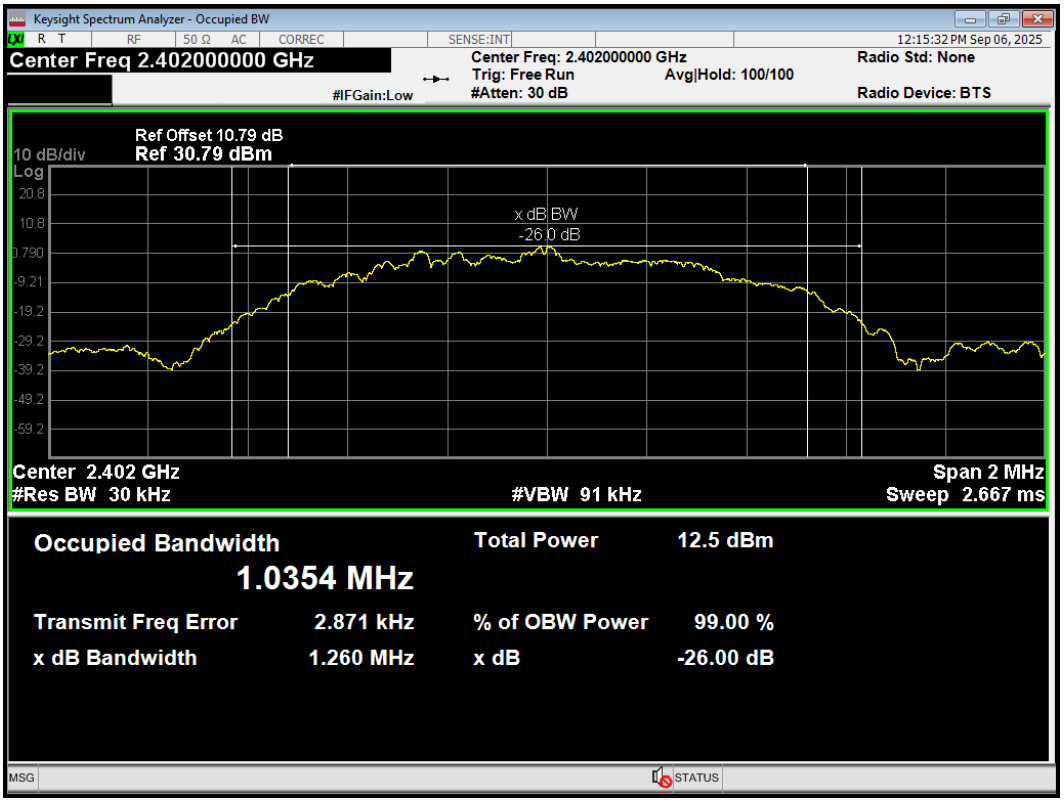
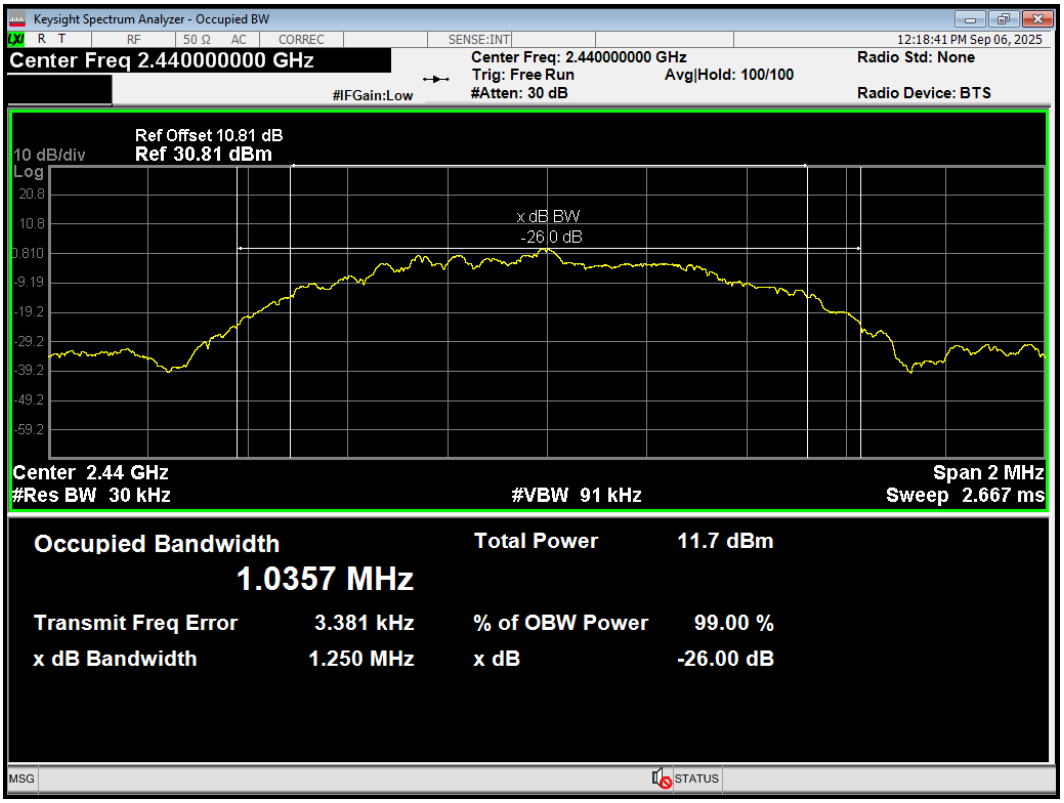
OBW BLE 2402MHz



OBW BLE 2440MHz



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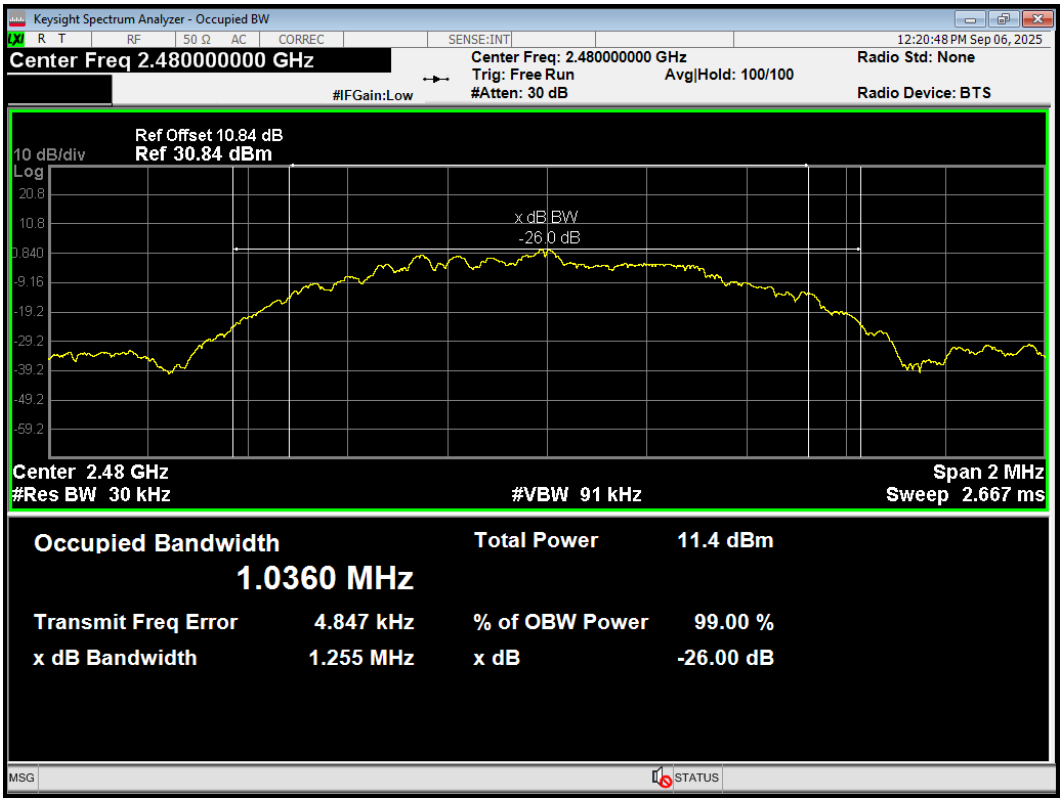
OBW BLE 2480MHz



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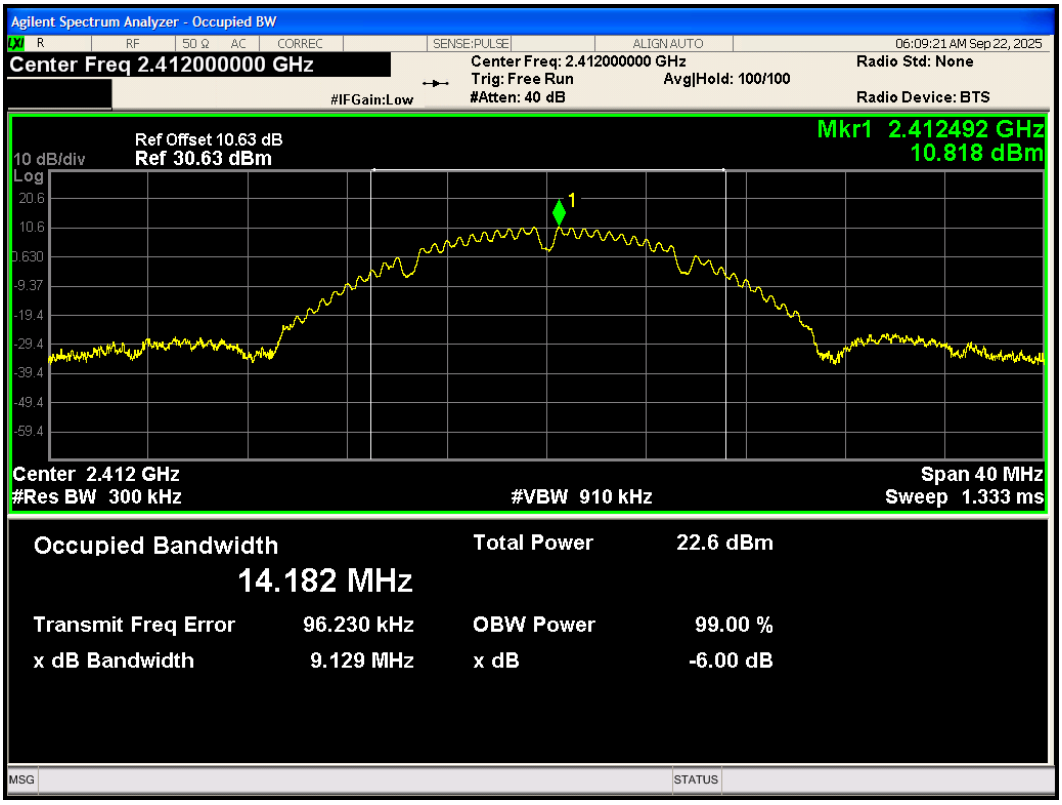
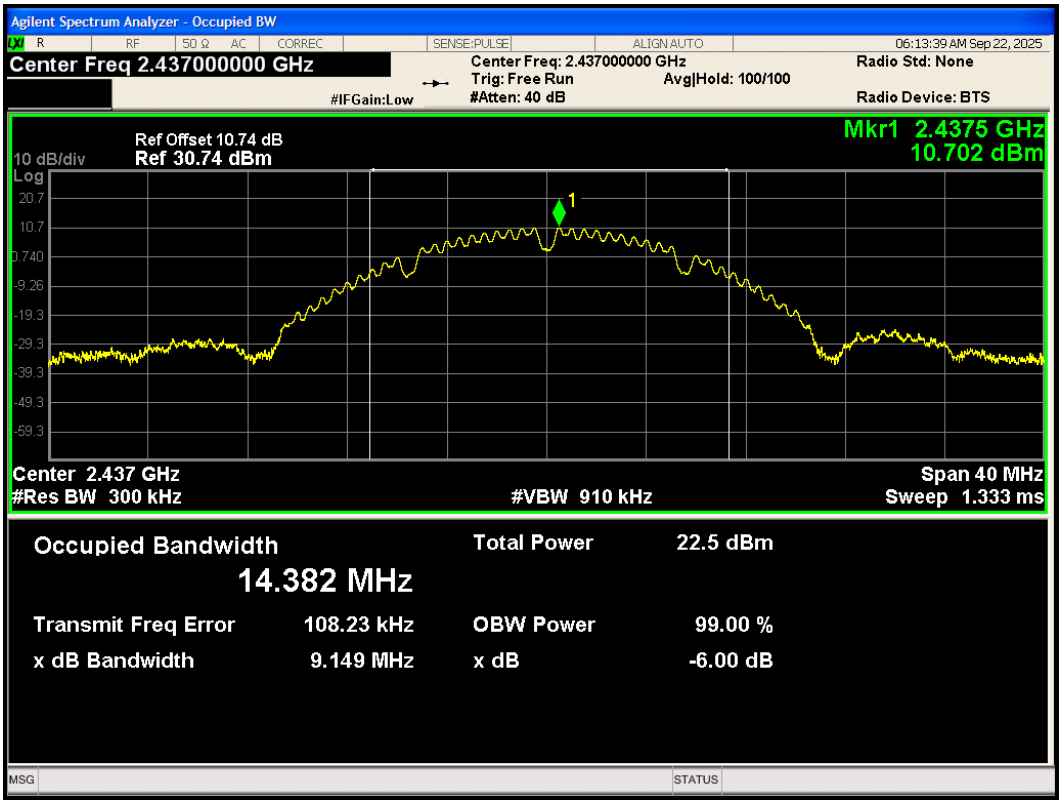
6 dB bandwidth

-6dB Bandwidth 802.11b 2412MHz



-6dB Bandwidth 802.11b 2437MHz



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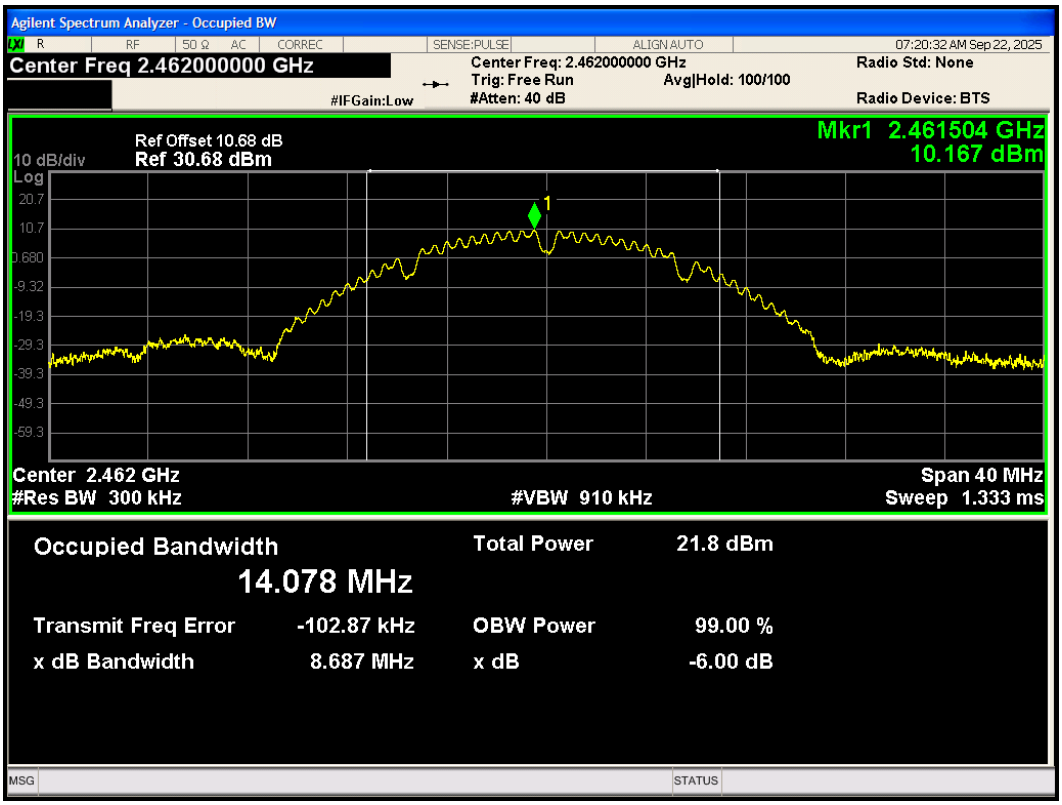
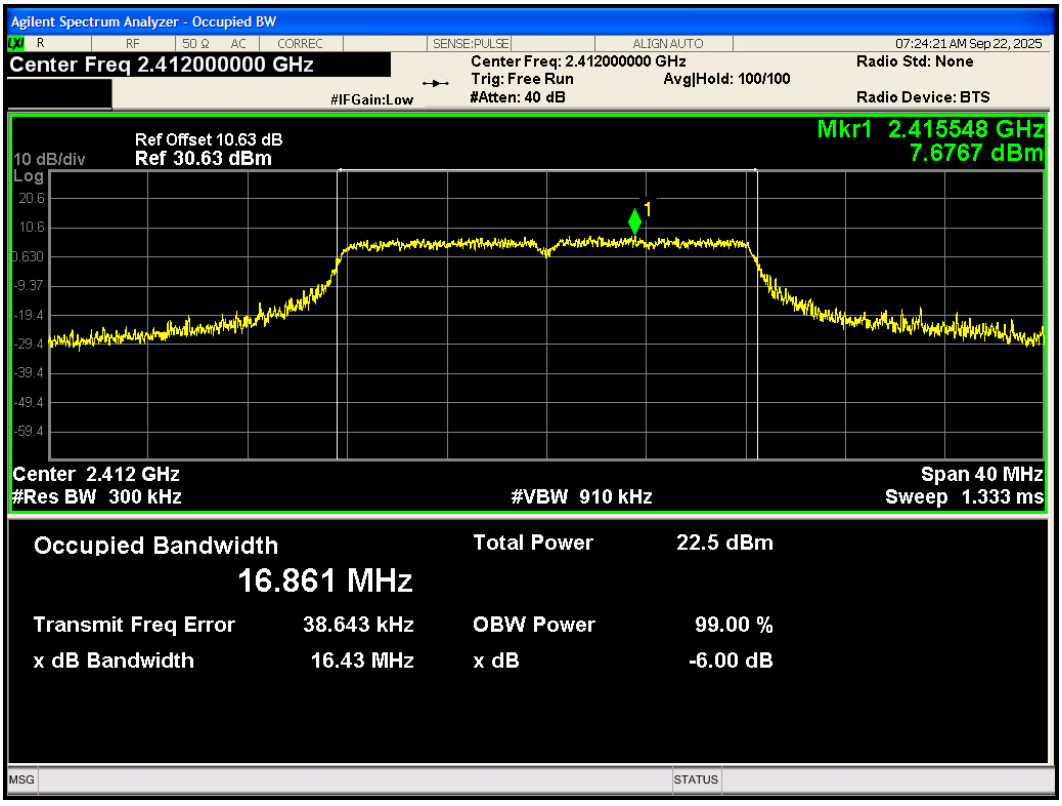
-6dB Bandwidth 802.11b 2462MHz



-6dB Bandwidth 802.11g 2412MHz



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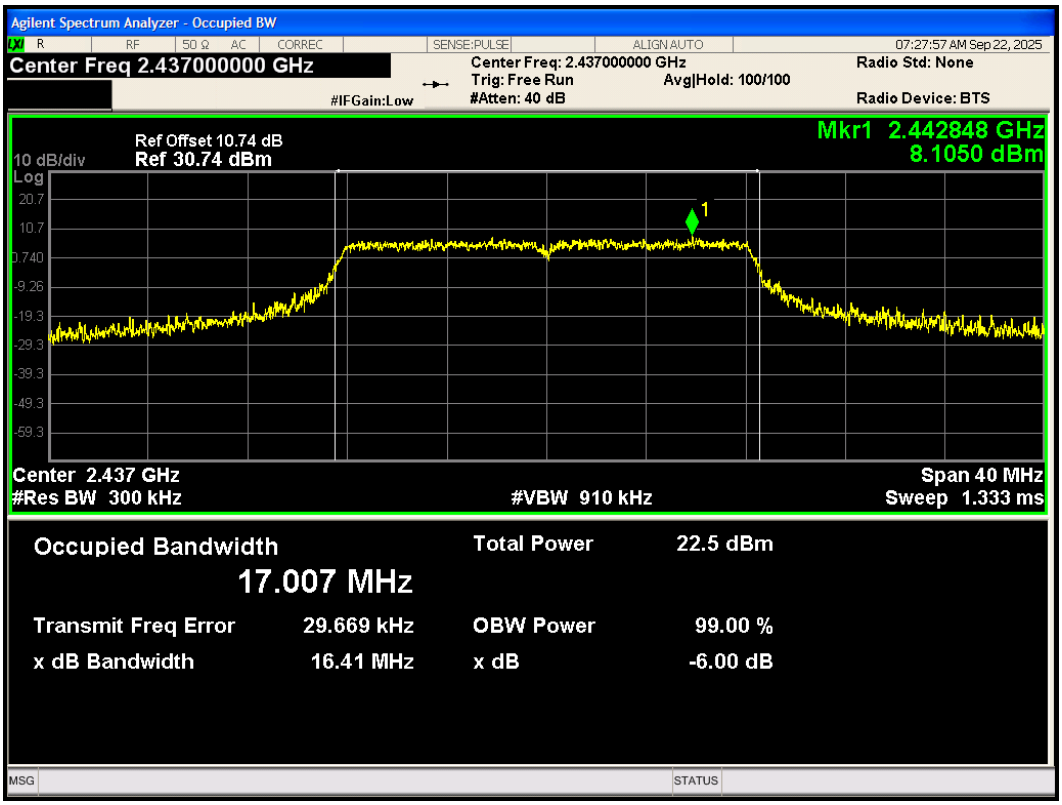
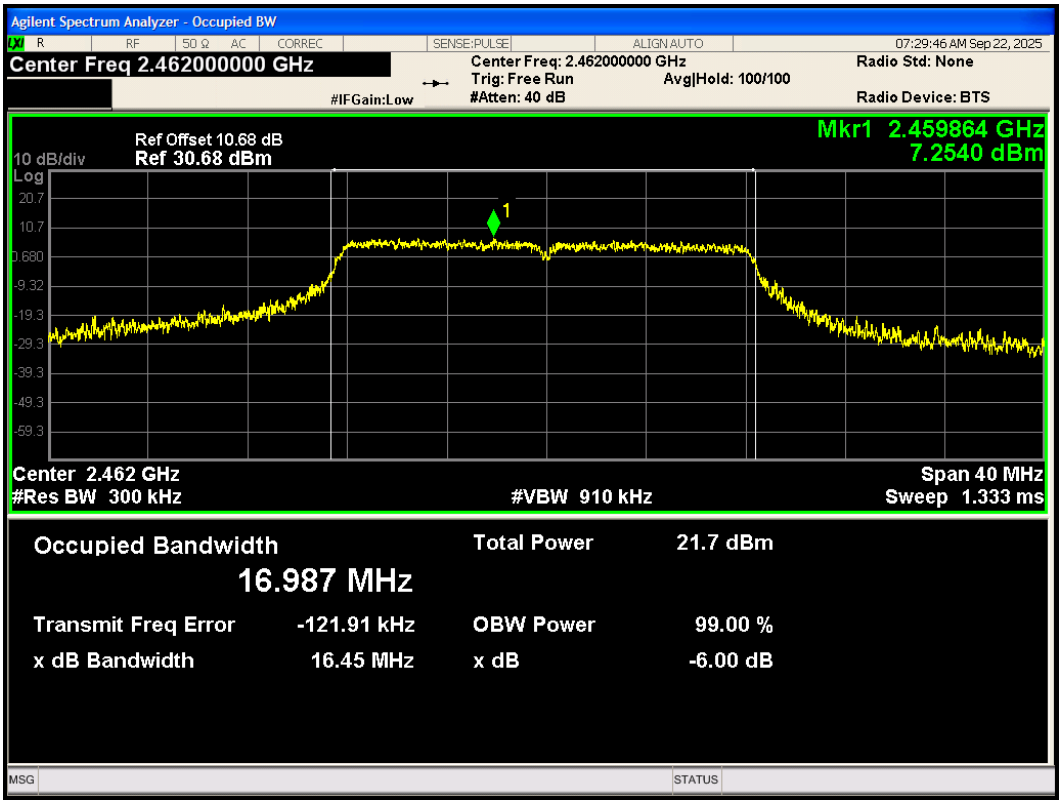
-6dB Bandwidth 802.11g 2437MHz



-6dB Bandwidth 802.11g 2462MHz



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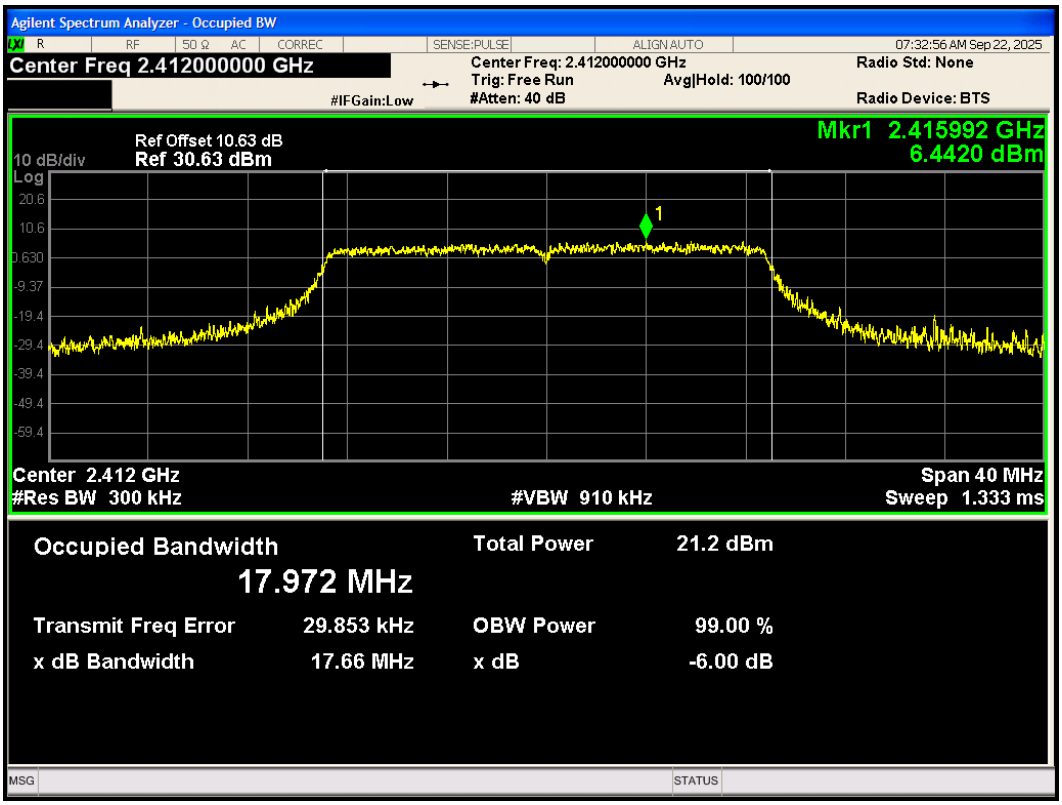
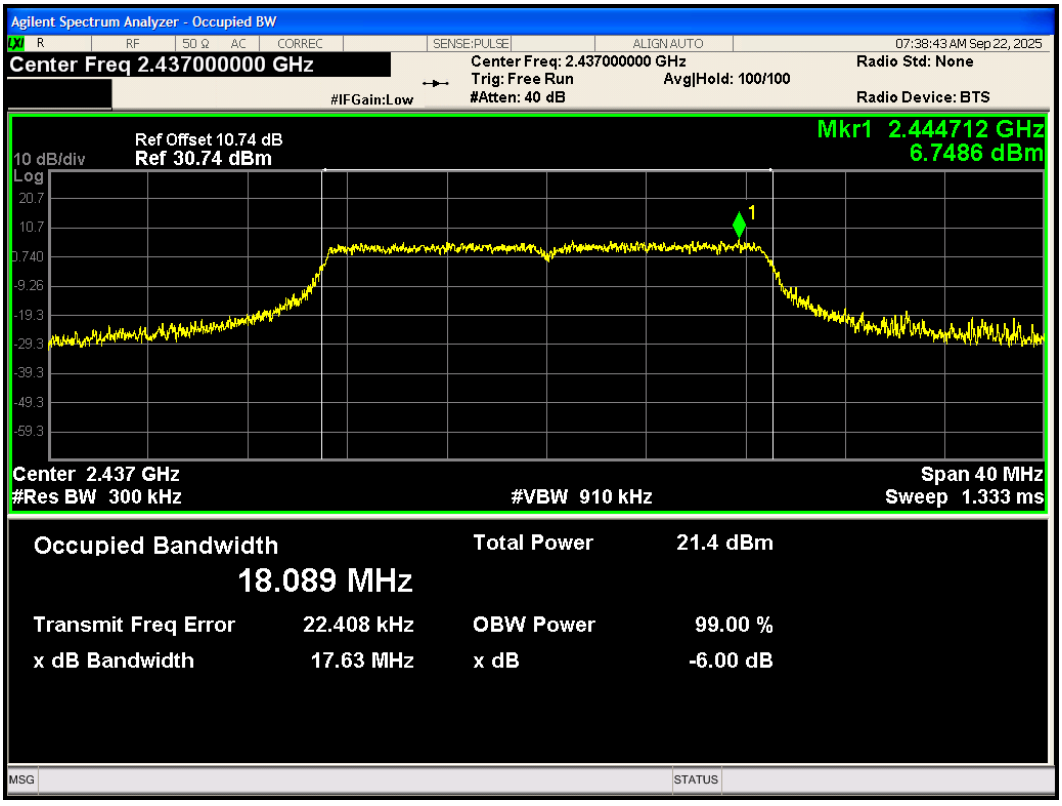
-6dB Bandwidth 802.11n(HT20) 2412MHz



-6dB Bandwidth 802.11n(HT20) 2437MHz



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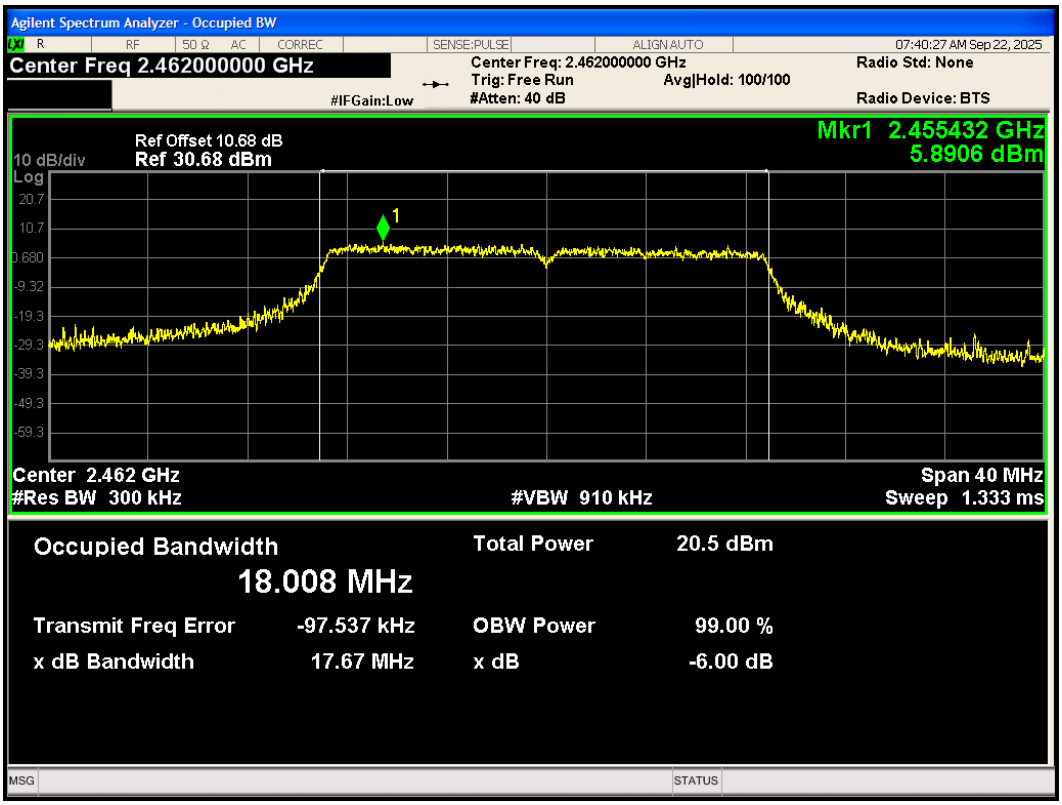
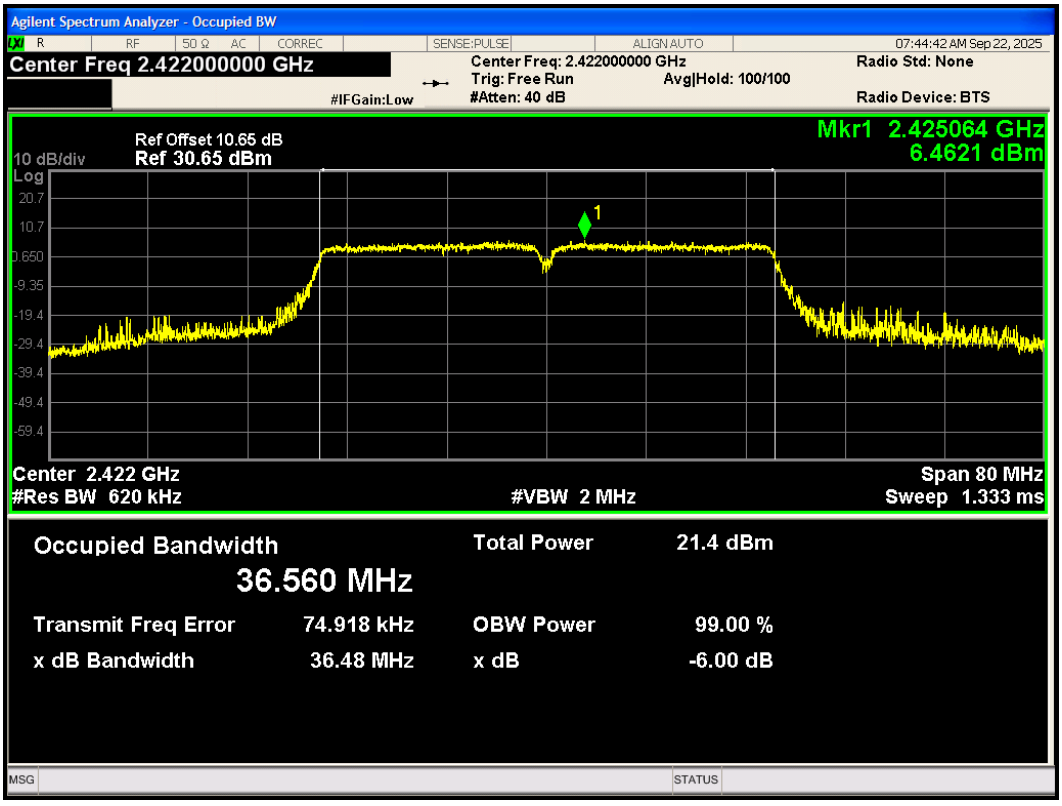
-6dB Bandwidth 802.11n(HT20) 2462MHz



-6dB Bandwidth 802.11n(HT40) 2422MHz



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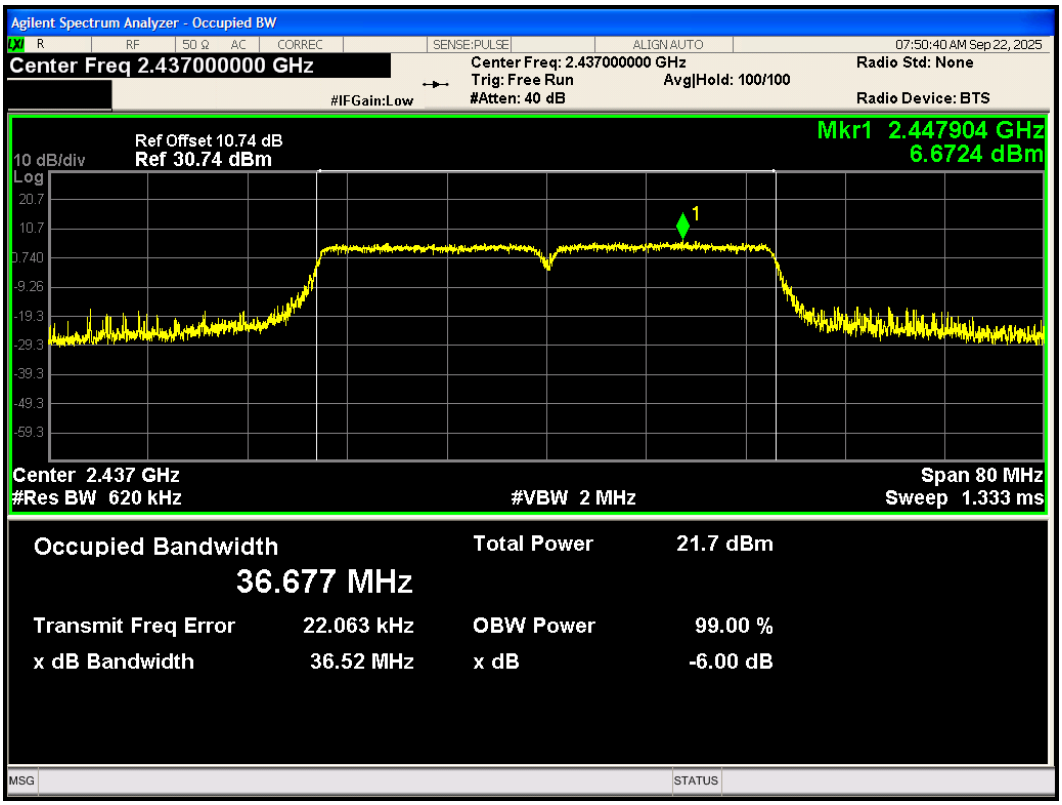
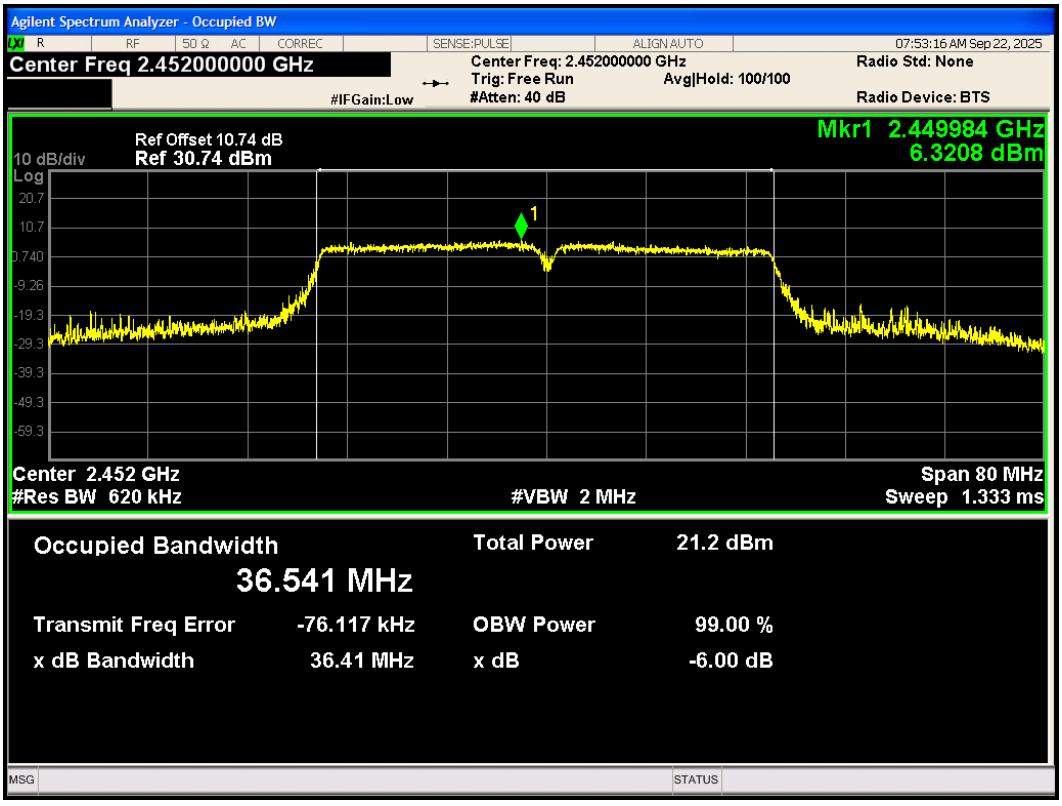
-6dB Bandwidth 802.11n(HT40) 2437MHz



-6dB Bandwidth 802.11n(HT40) 2452MHz



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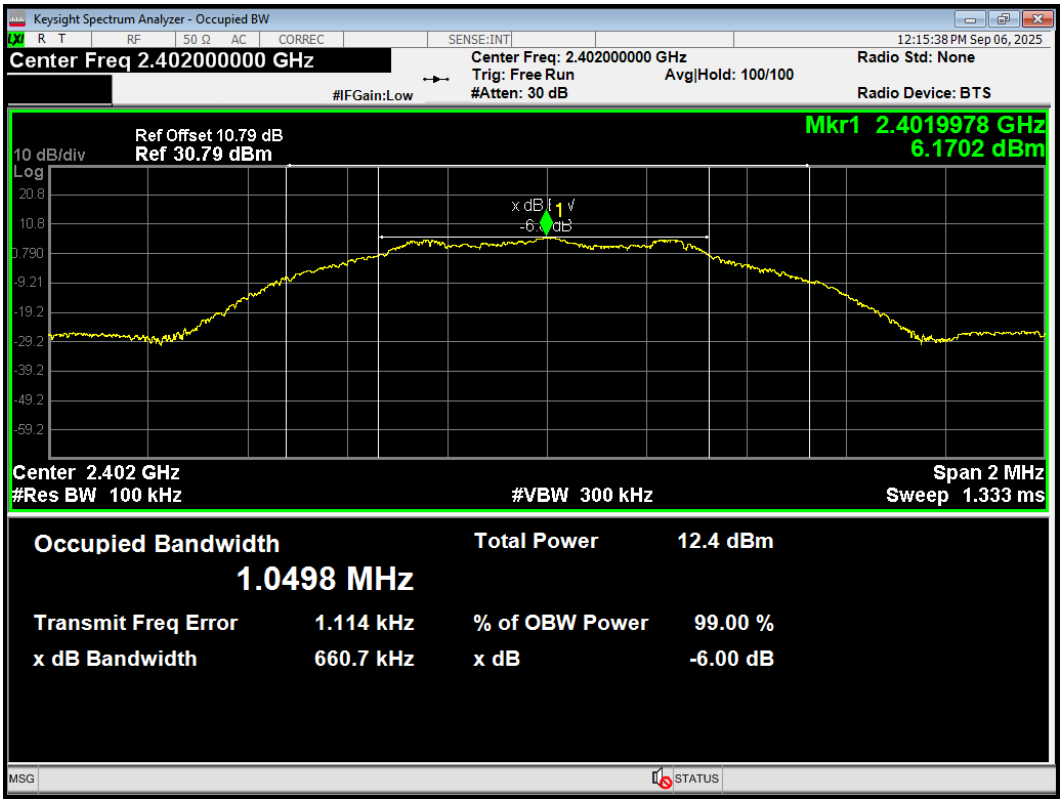
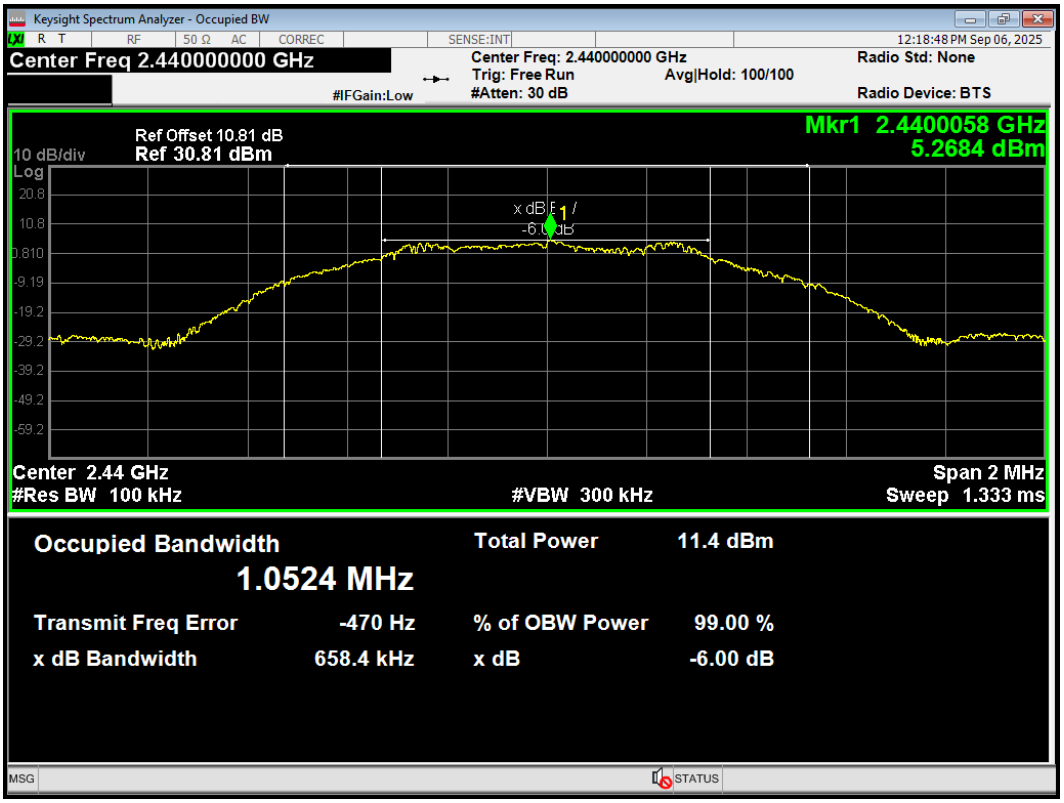
-6dB Bandwidth BLE 2402MHz



-6dB Bandwidth BLE 2440MHz



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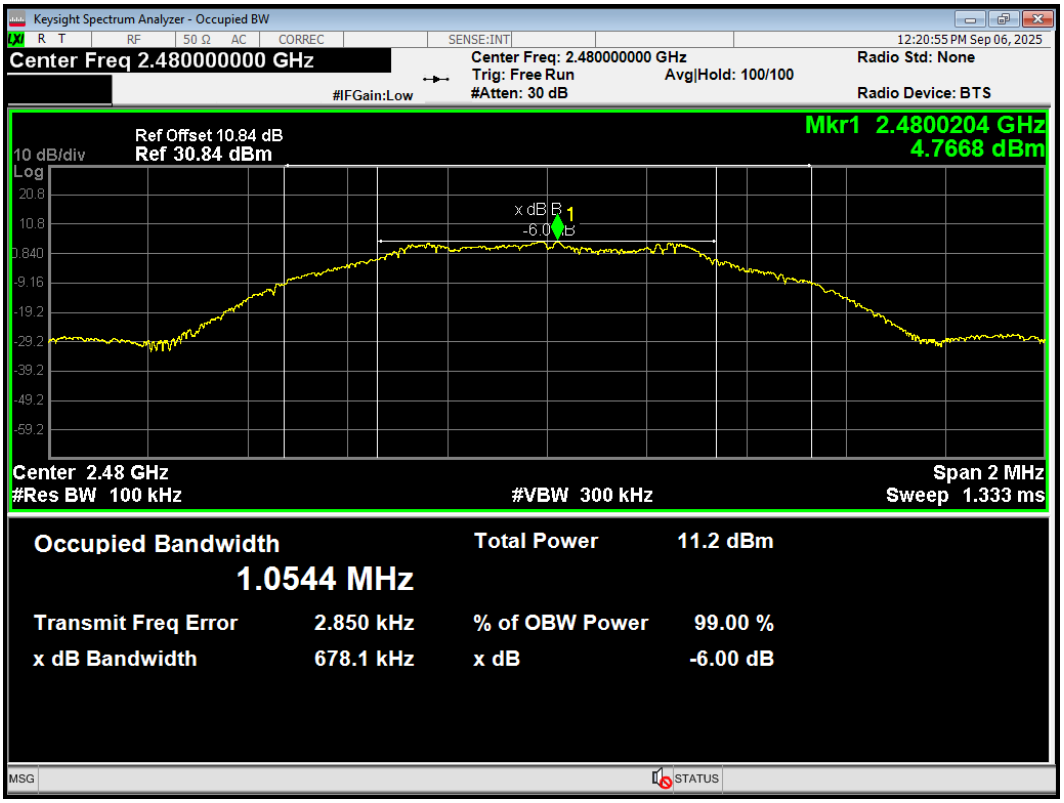
-6dB Bandwidth BLE 2480MHz



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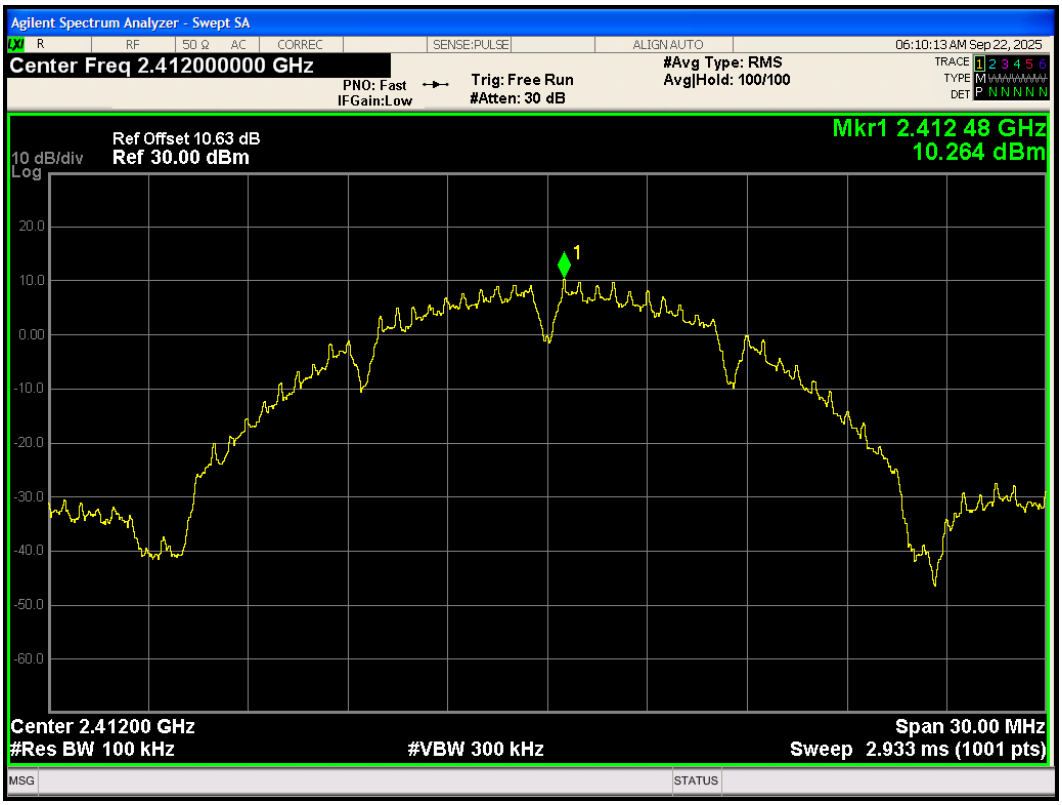
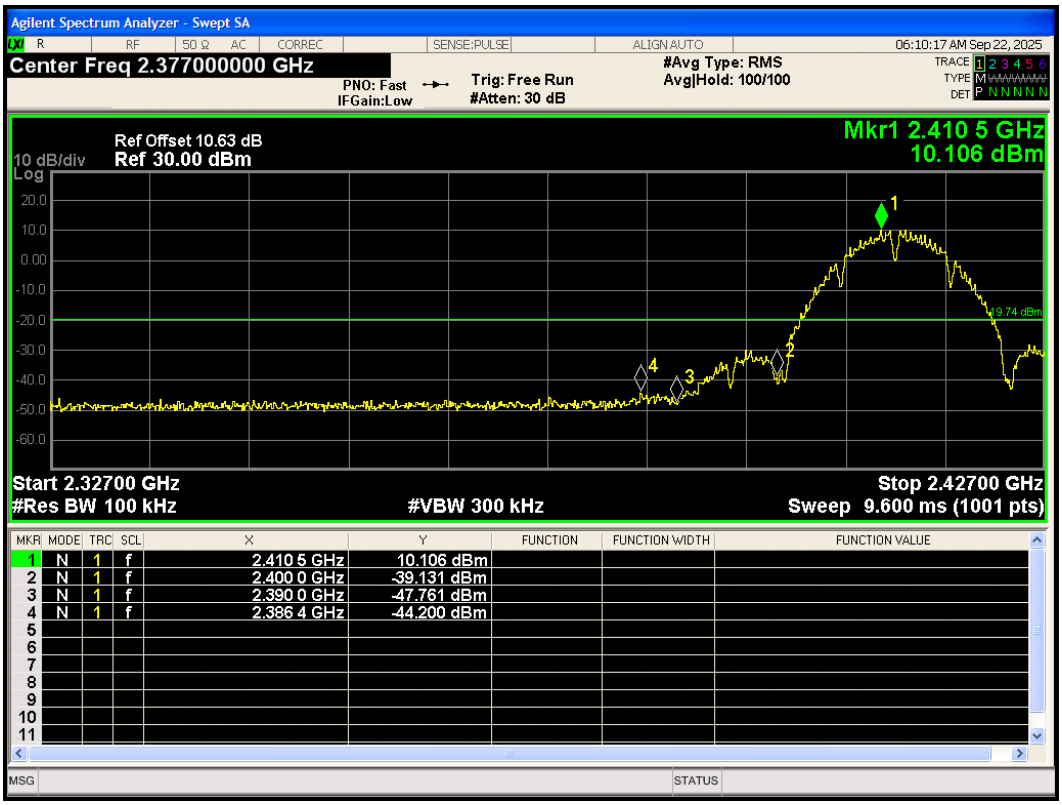
6.4. Band Edge

Band Edge 802.11b 2412MHz Ref



Band Edge 802.11b 2412MHz Emission



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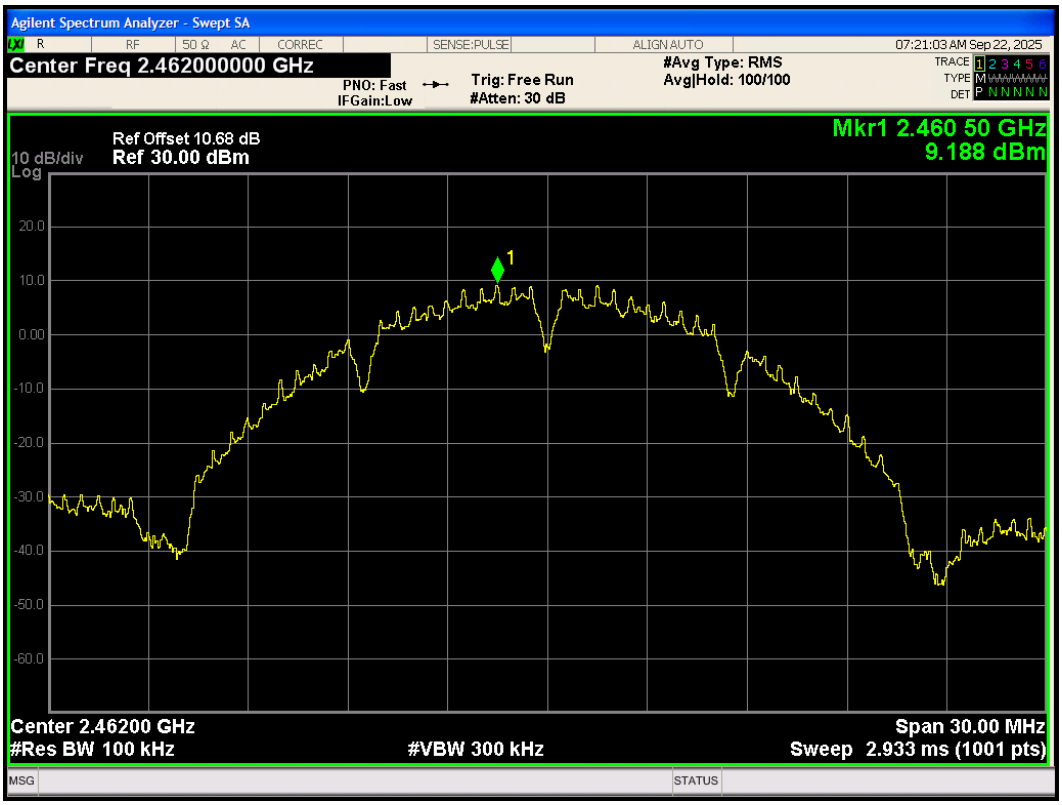
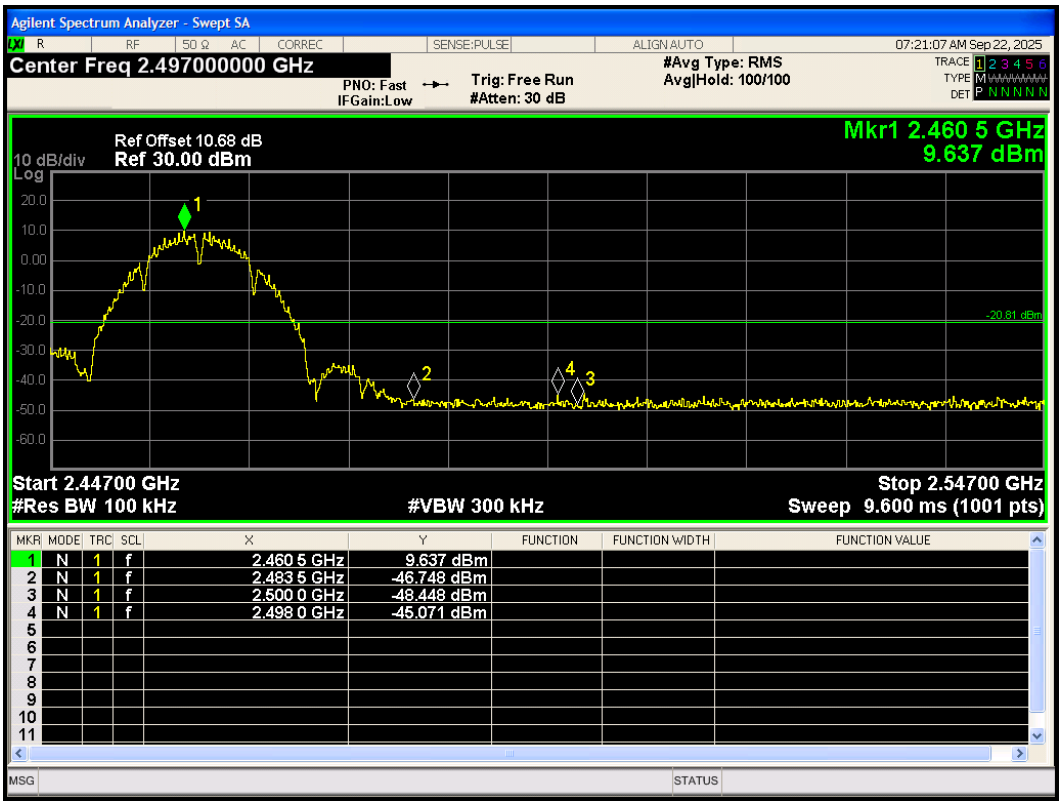
Band Edge 802.11b 2462MHz Ref



Band Edge 802.11b 2462MHz Emission



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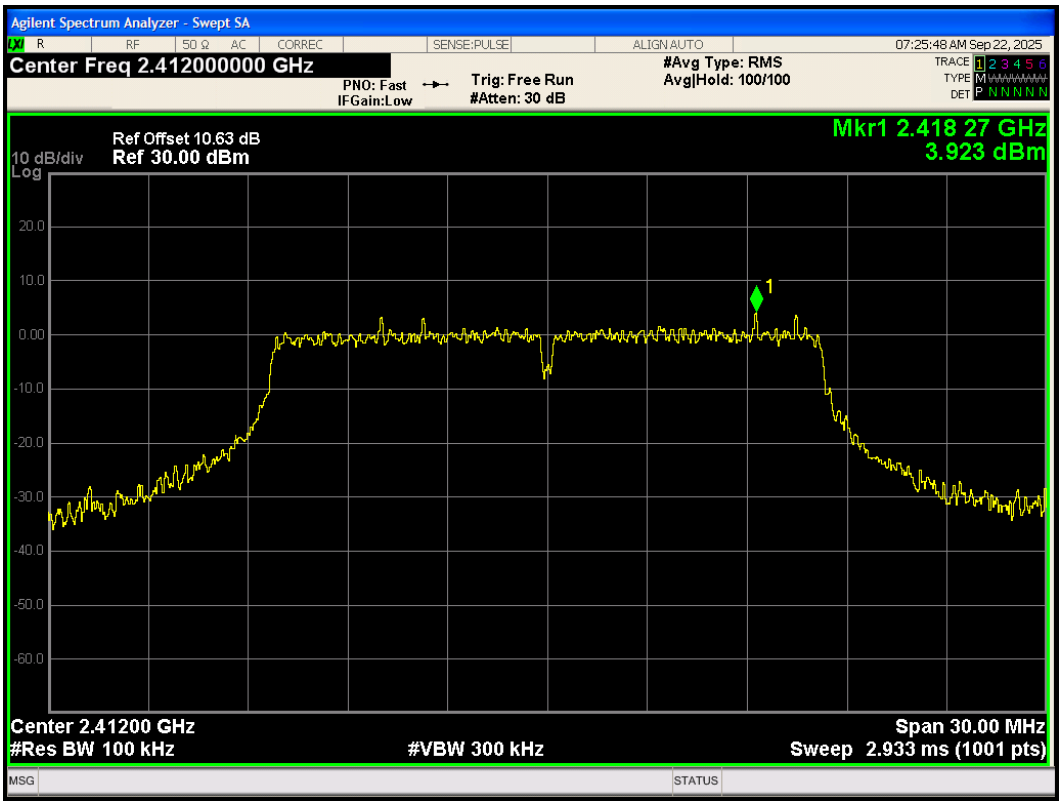
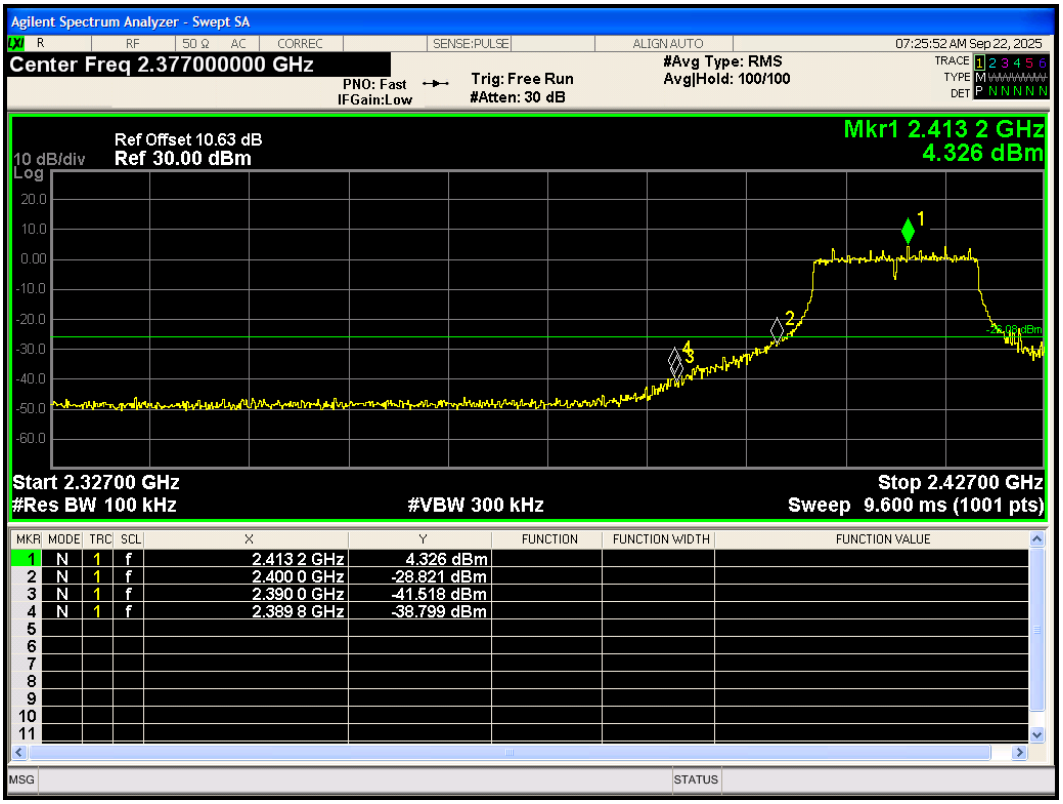
Band Edge 802.11g 2412MHz Ref



Band Edge 802.11g 2412MHz Emission



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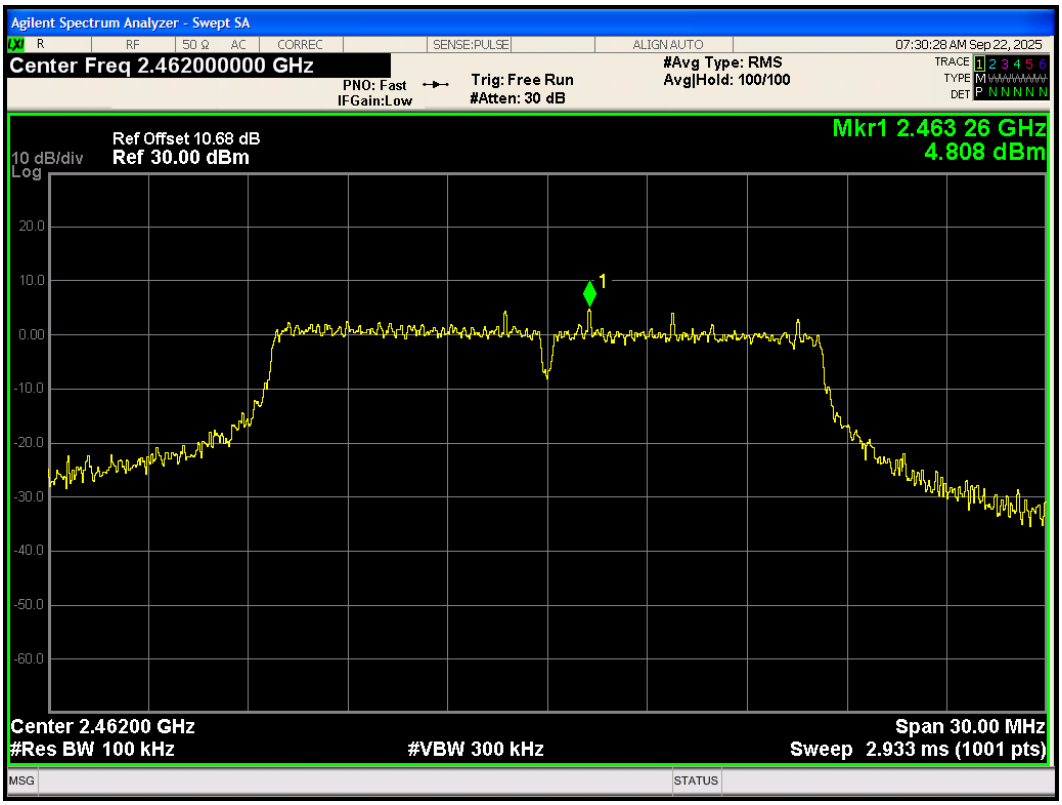
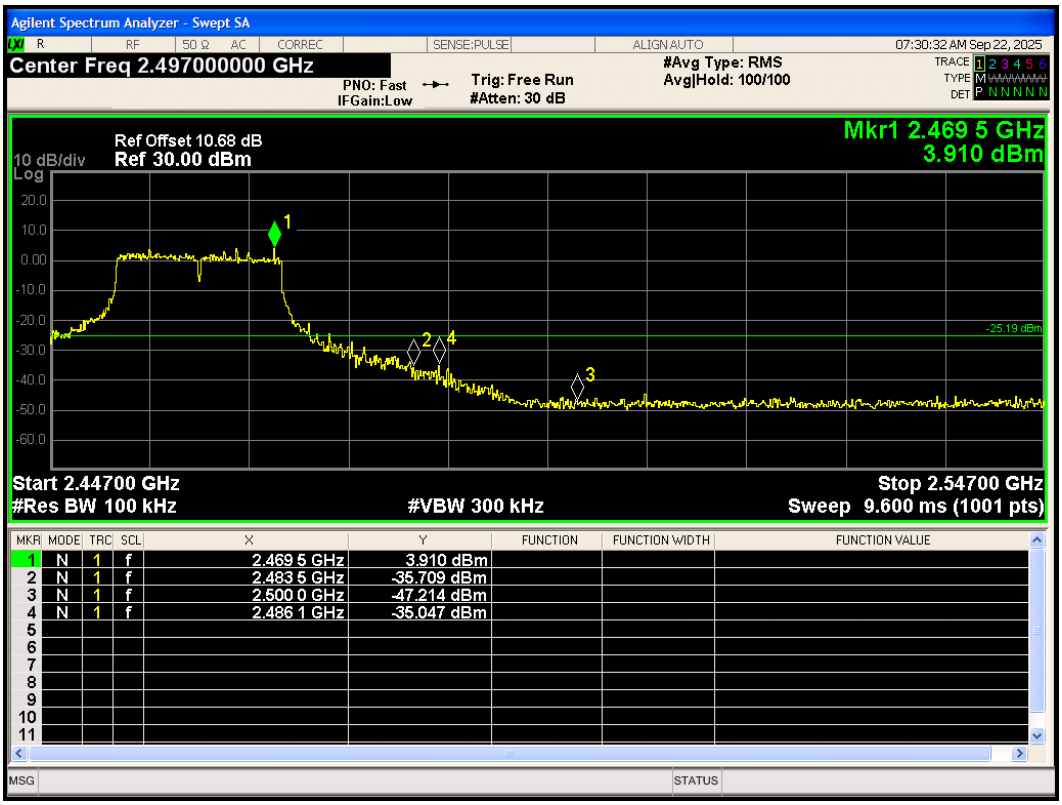
Band Edge 802.11g 2462MHz Ref



Band Edge 802.11g 2462MHz Emission



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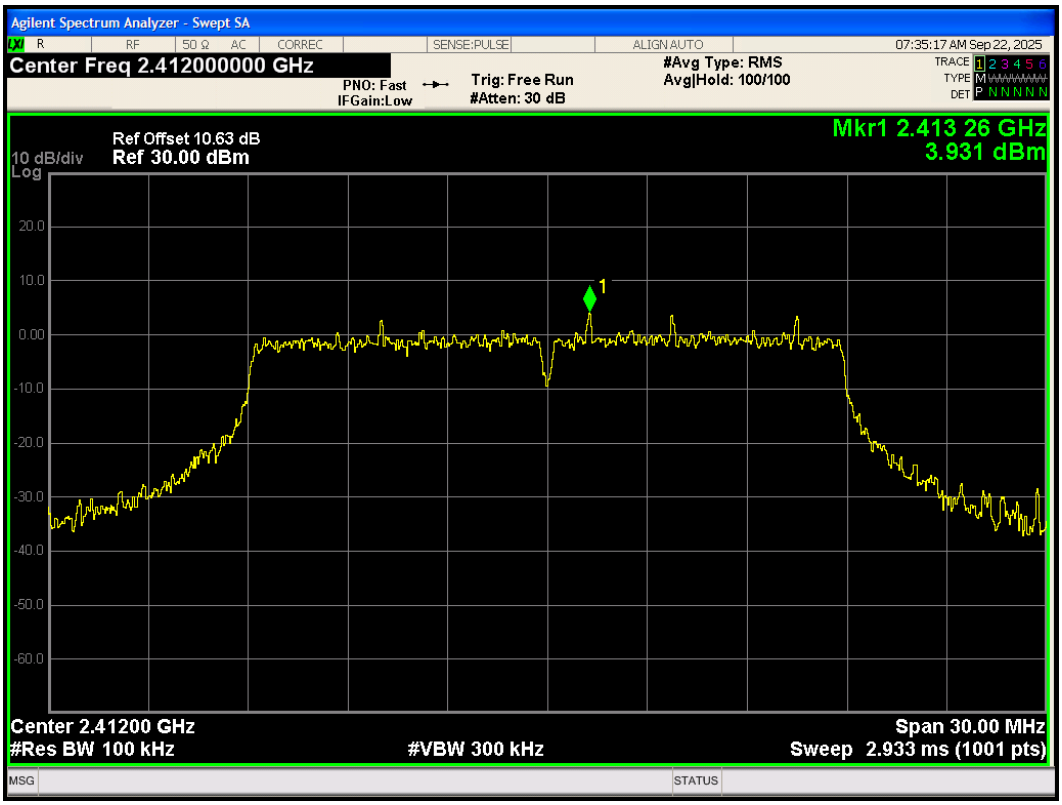
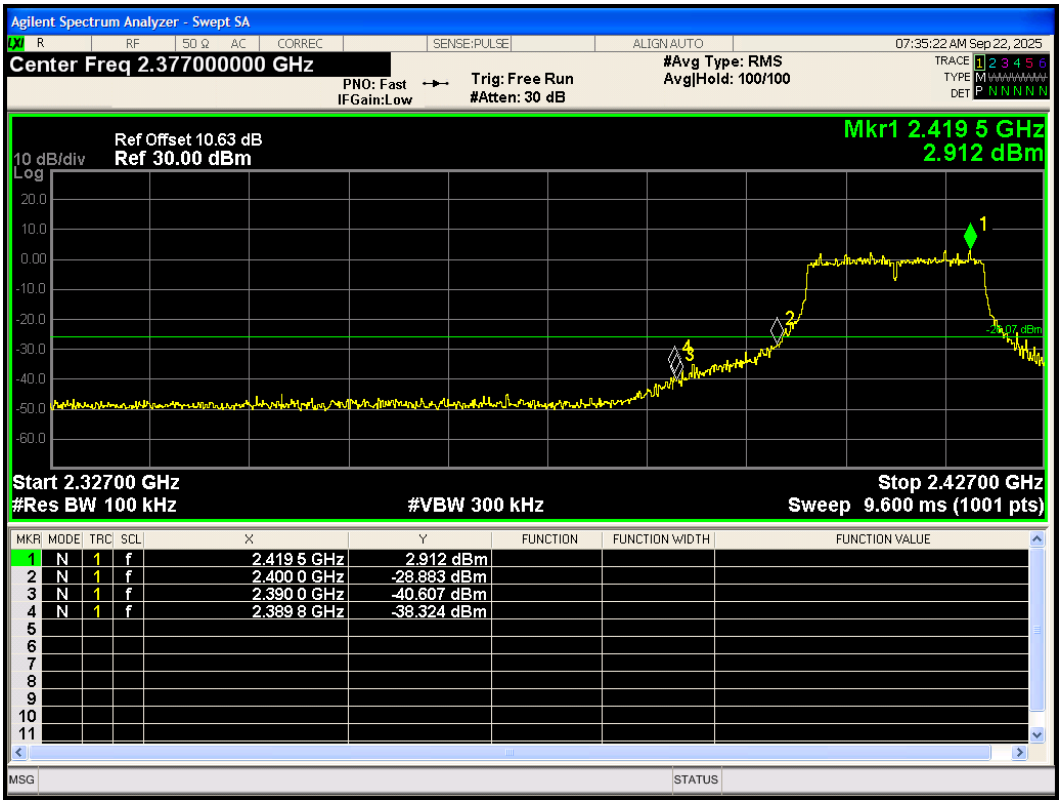
Band Edge 802.11n(HT20) 2412MHz Ref



Band Edge 802.11n(HT20) 2412MHz Emission



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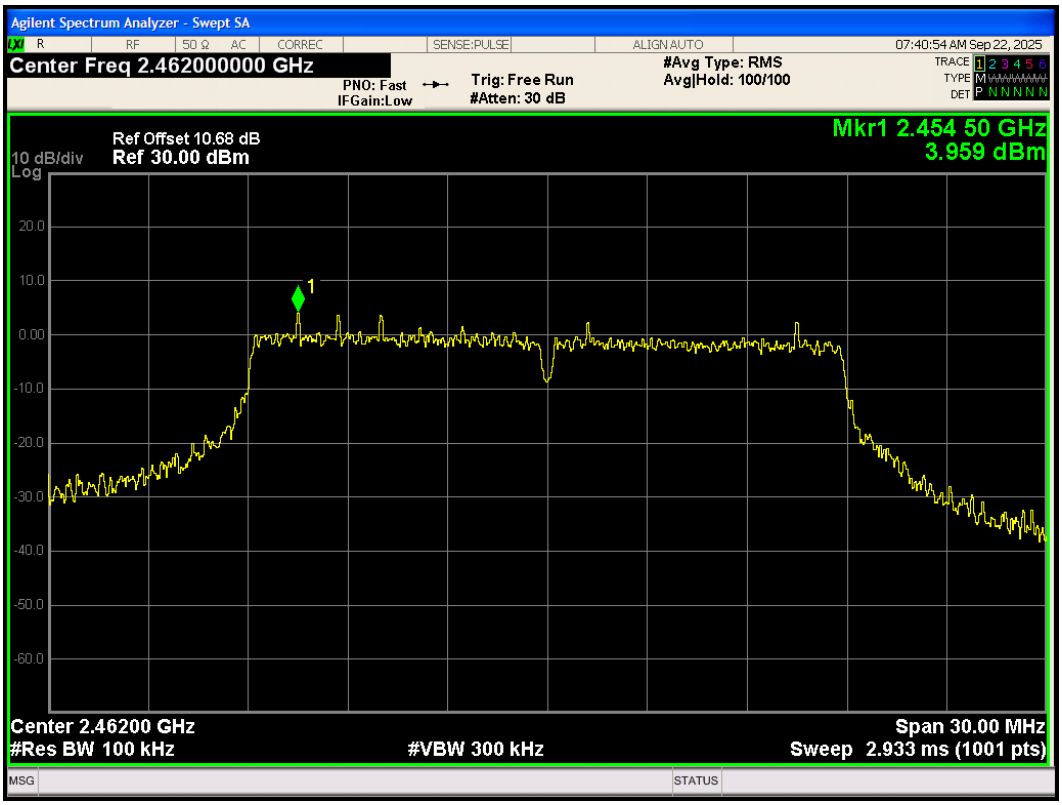
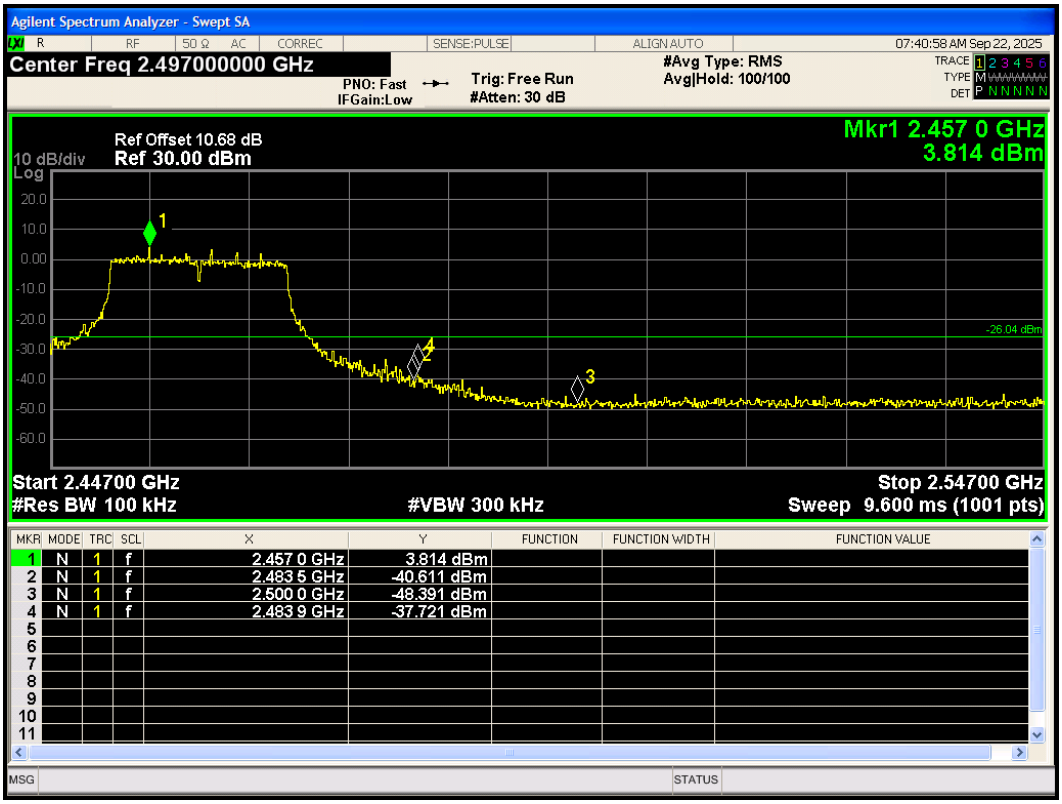
Band Edge 802.11n(HT20) 2462MHz Ref



Band Edge 802.11n(HT20) 2462MHz Emission



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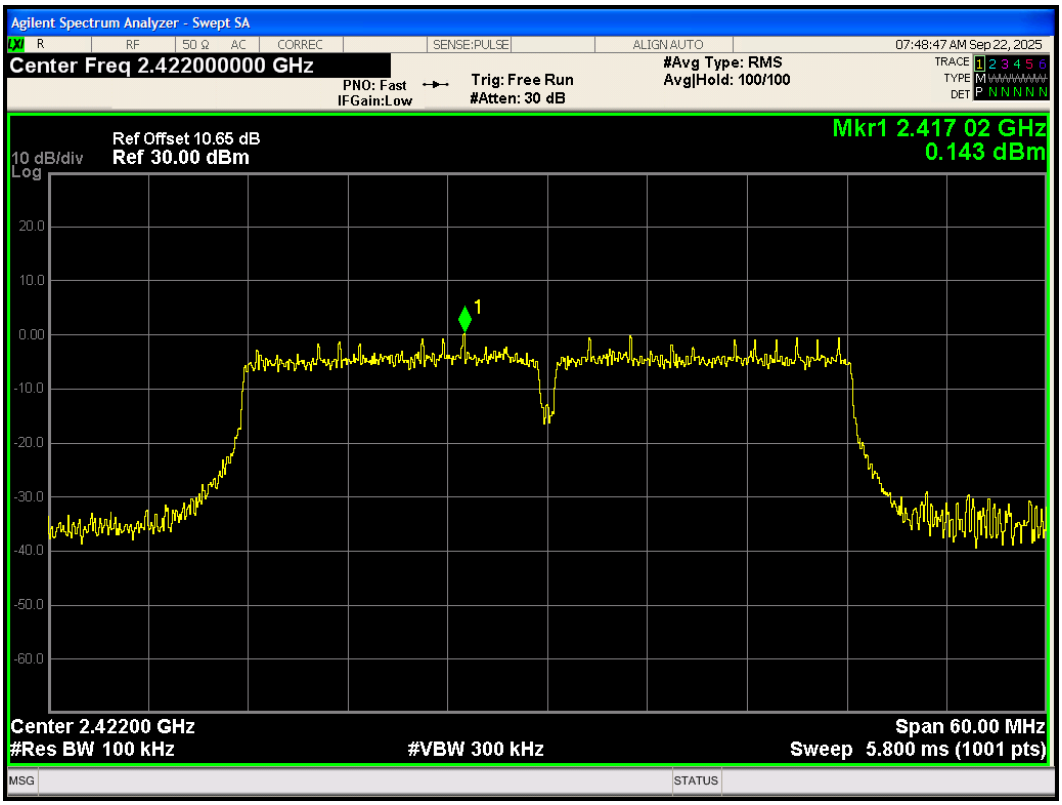
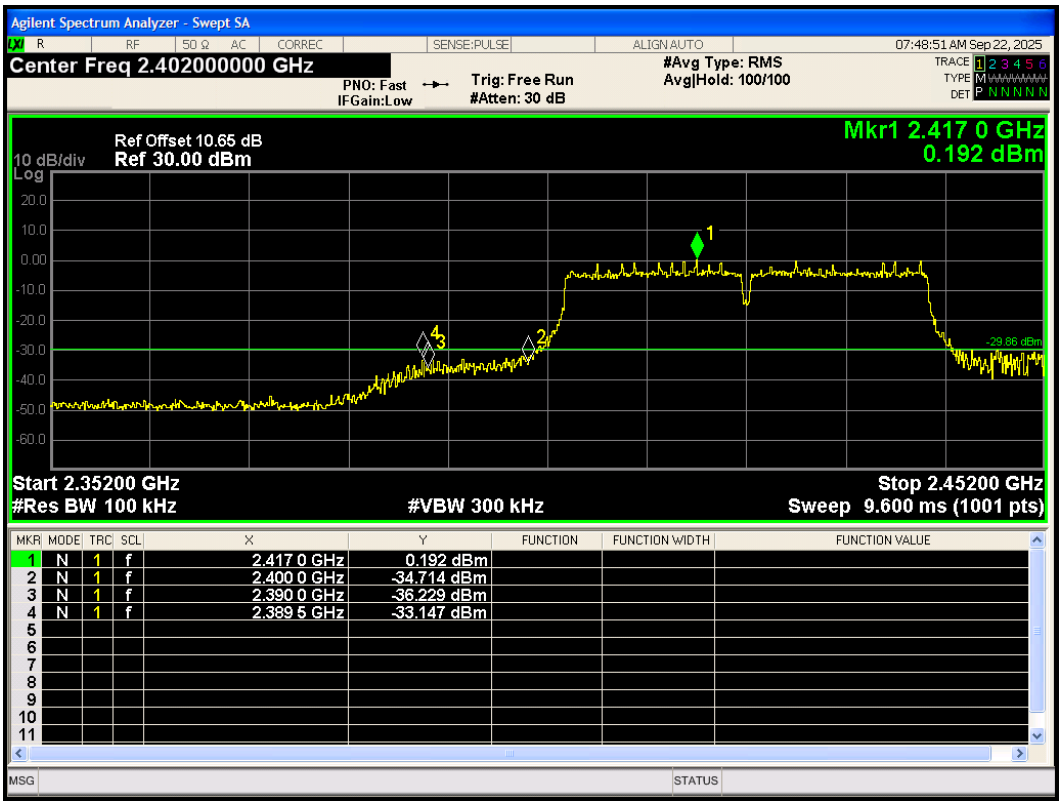
Band Edge 802.11n(HT40) 2422MHz Ref



Band Edge 802.11n(HT40) 2422MHz Emission



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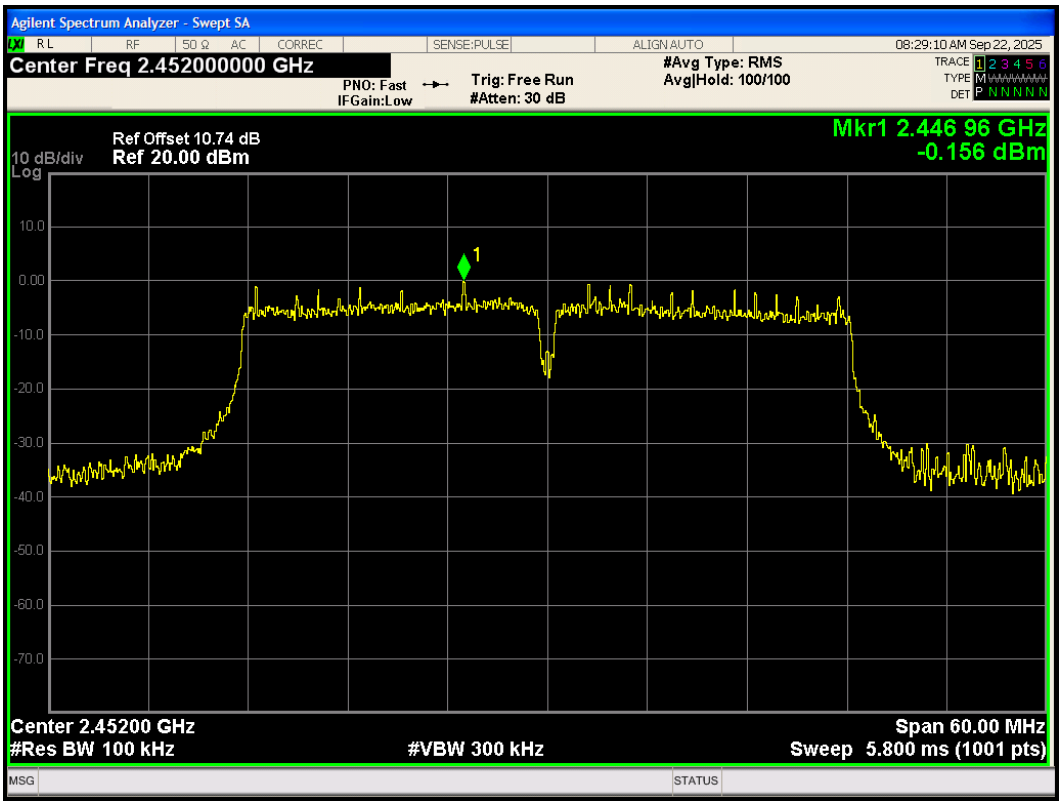
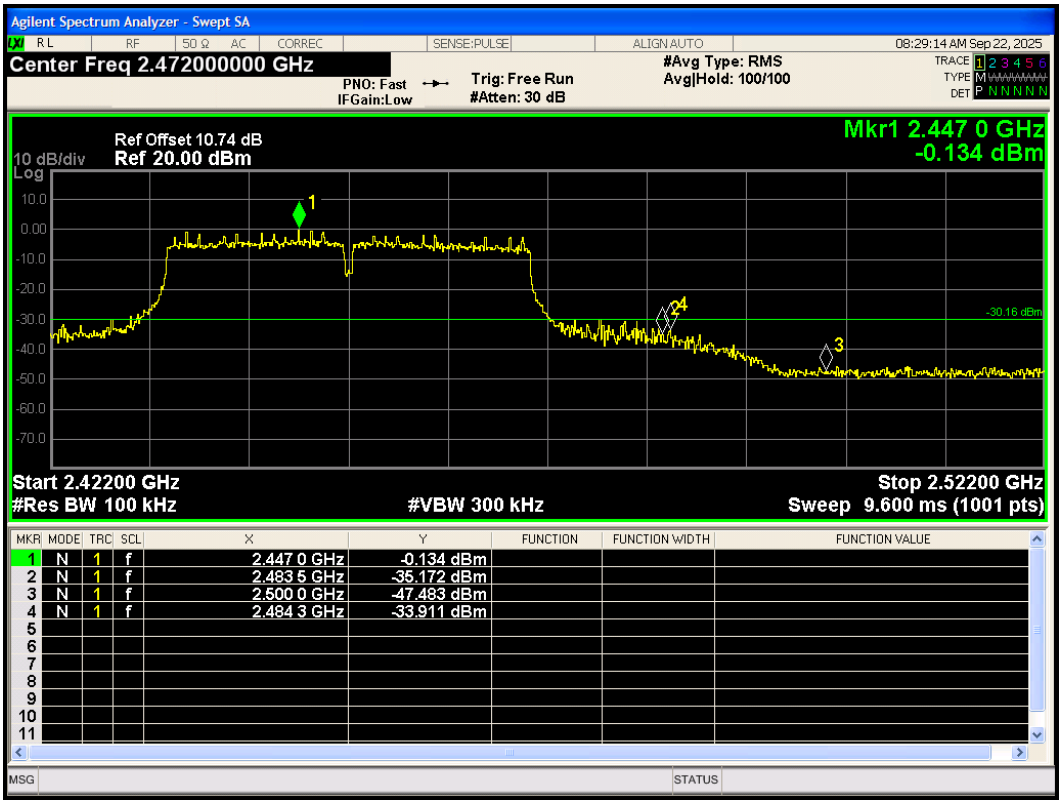
Band Edge 802.11n(HT40) 2452MHz Ref



Band Edge 802.11n(HT40) 2452MHz Emission



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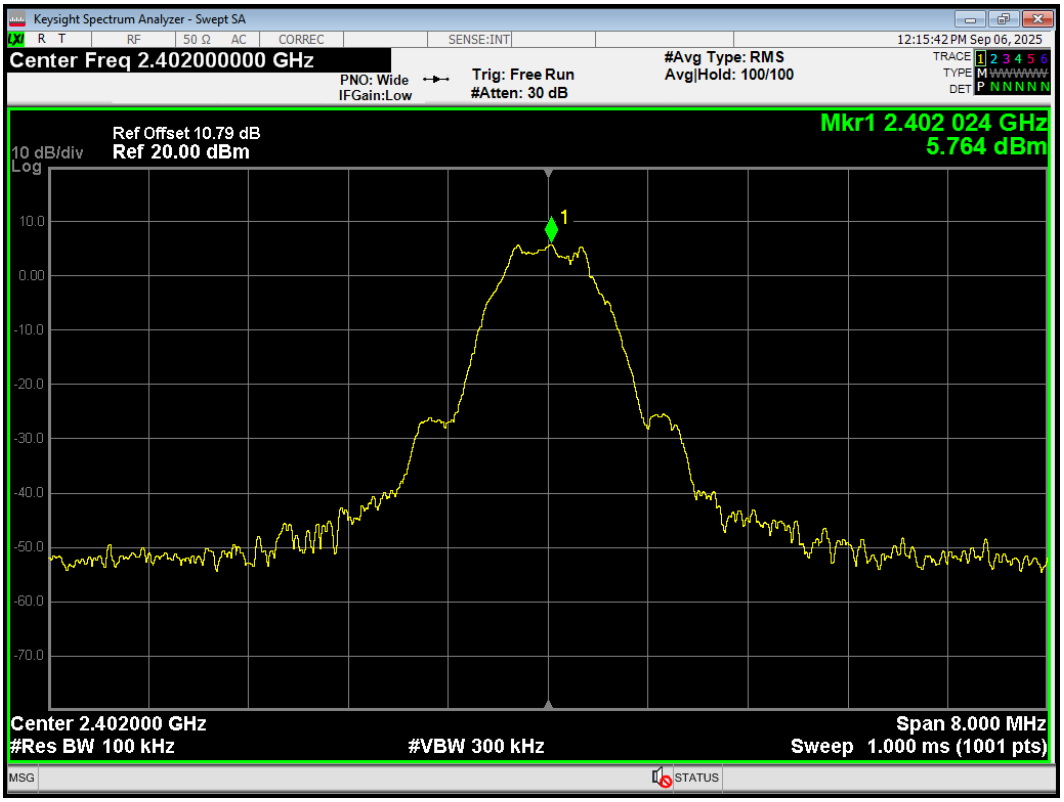
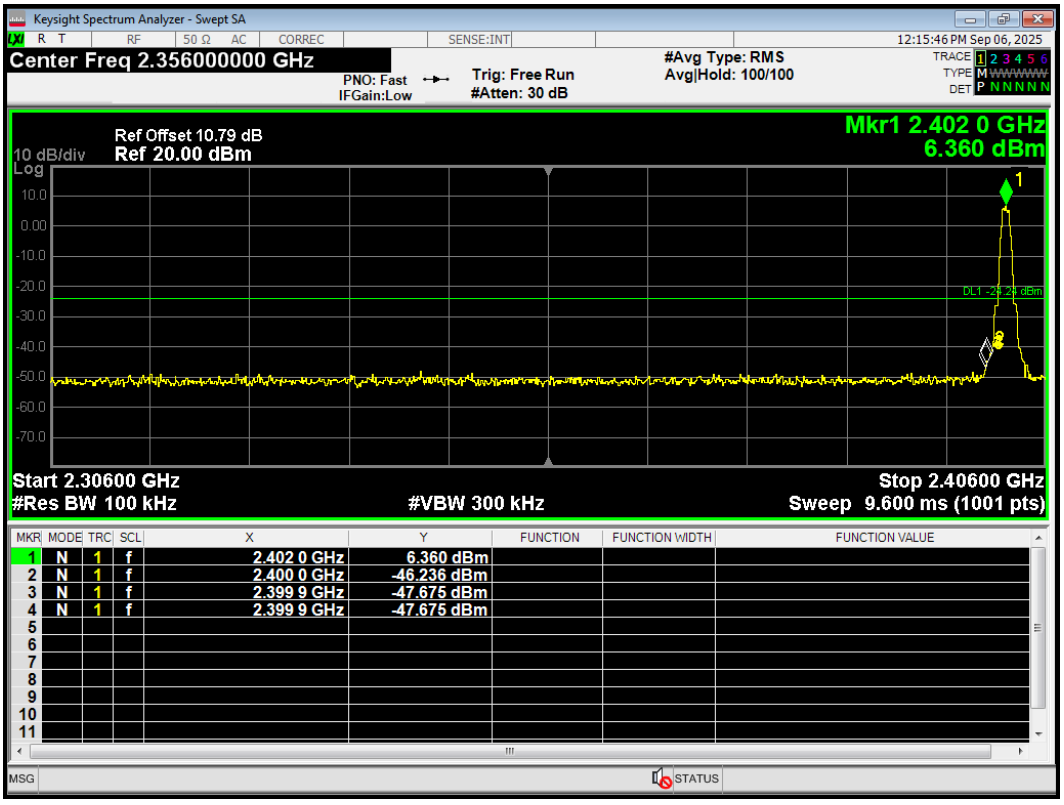
Band Edge BLE 2402MHz Ref



Band Edge BLE 2402MHz Emission



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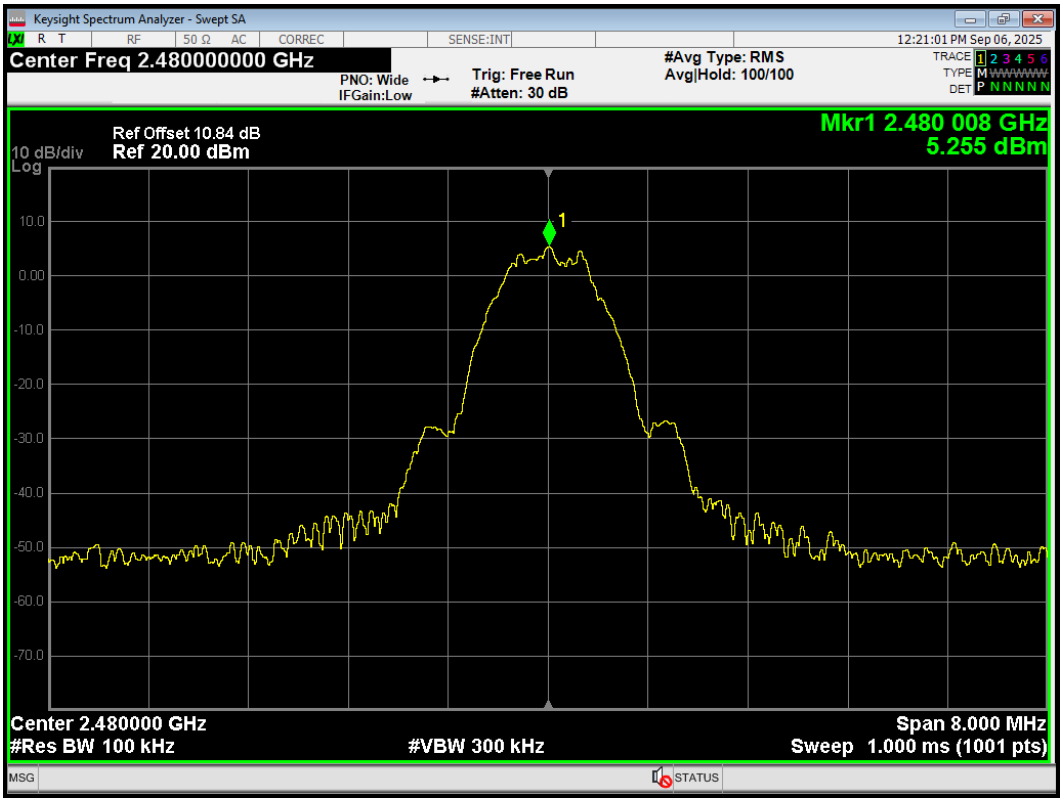
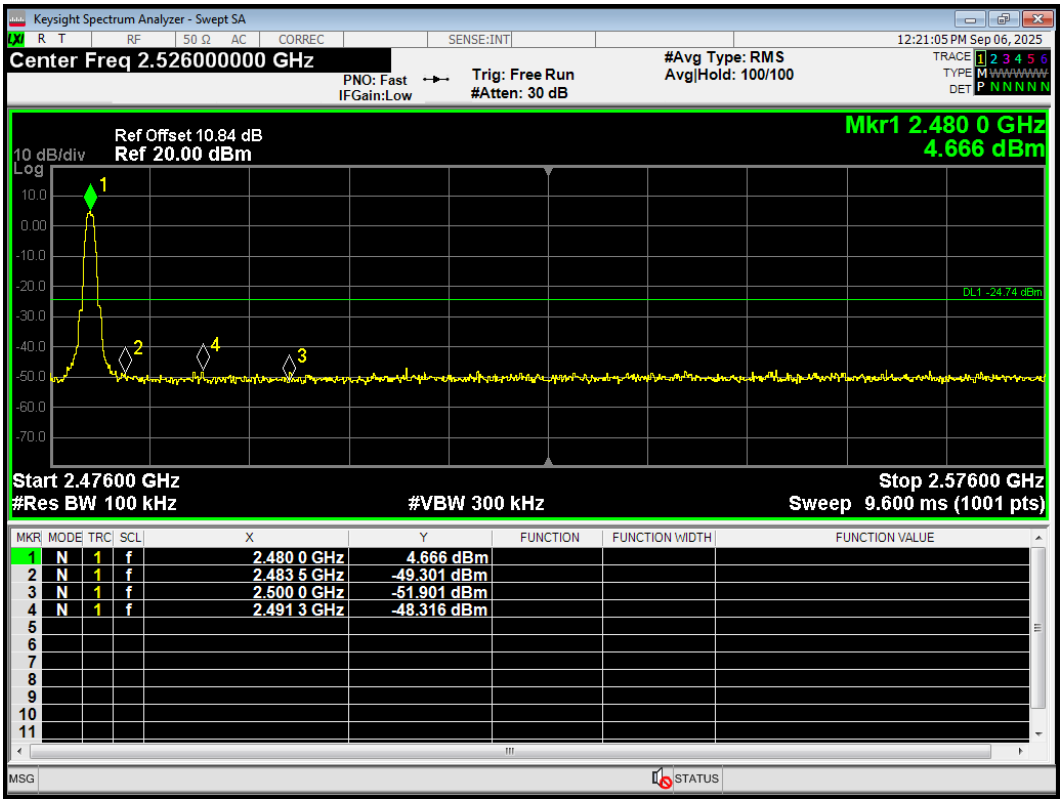
Band Edge BLE 2480MHz Ref



Band Edge BLE 2480MHz Emission



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6.5. 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	-2.67	-12.67	8	PASS
	2437/CH 6	-3.02	-13.02	8	PASS
	2462/CH11	-3.65	-13.65	8	PASS
802.11g	2412/CH 1	-7.34	-17.34	8	PASS
	2437/CH 6	-7.22	-17.22	8	PASS
	2462/CH11	-7.78	-17.78	8	PASS
802.11n HT20	2412/CH 1	-8.73	-18.73	8	PASS
	2437/CH 6	-8.70	-18.70	8	PASS
	2462/CH11	-9.73	-19.73	8	PASS
802.11n HT40	2422/CH3	-11.67	-21.44	8	PASS
	2437/CH6	-12.96	-22.73	8	PASS
	2452/CH9	-11.75	-21.52	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	-12.71	-10.69	8	PASS
	2440/CH19	-13.45	-11.43	8	PASS
	2480/CH39	-14.12	-12.10	8	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

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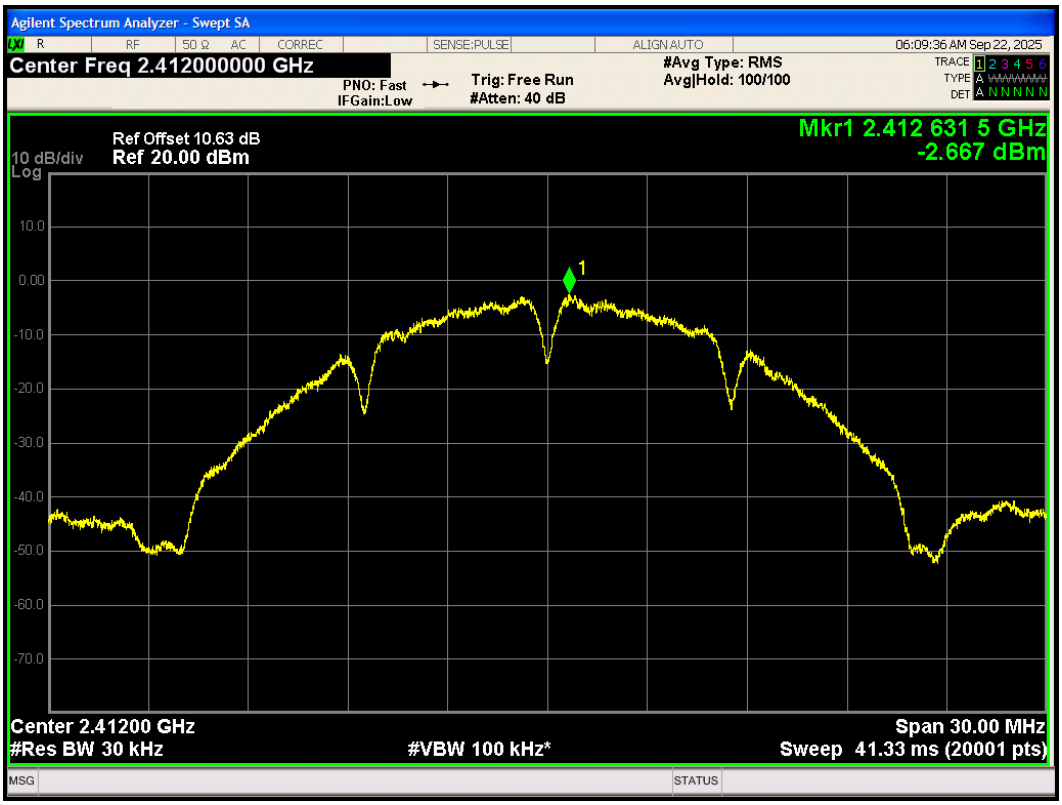
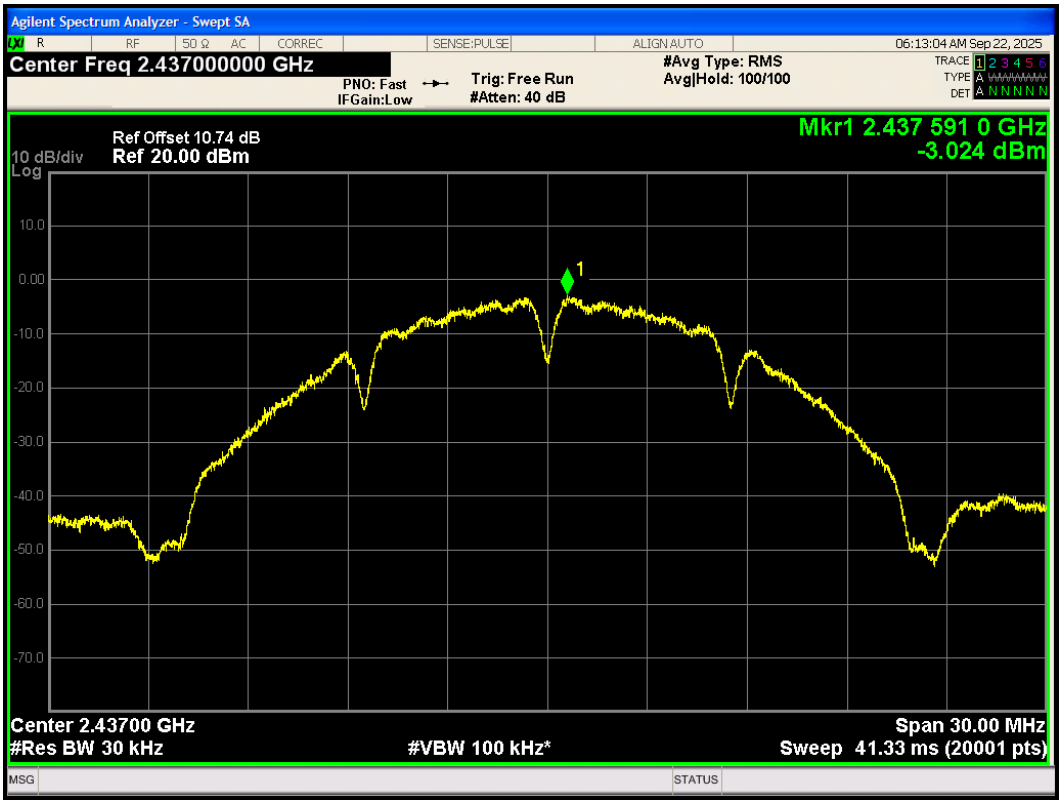
PSD 802.11b 2412MHz



PSD 802.11b 2437MHz



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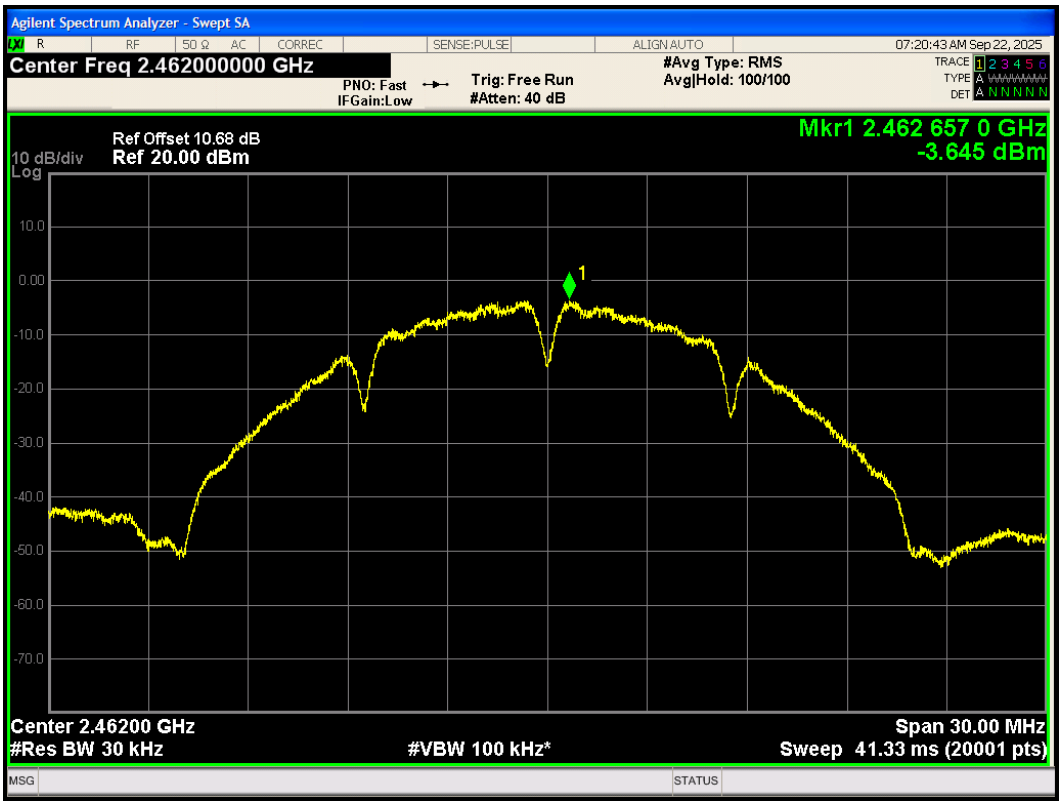
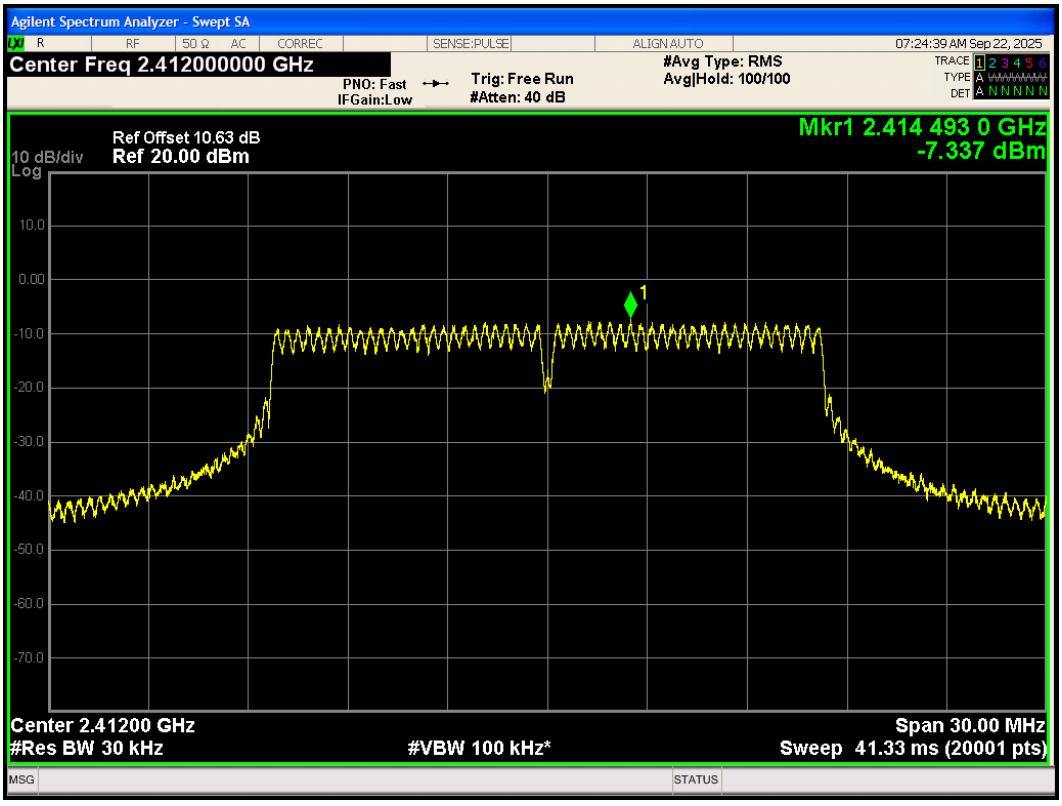
PSD 802.11b 2462MHz



PSD 802.11g 2412MHz



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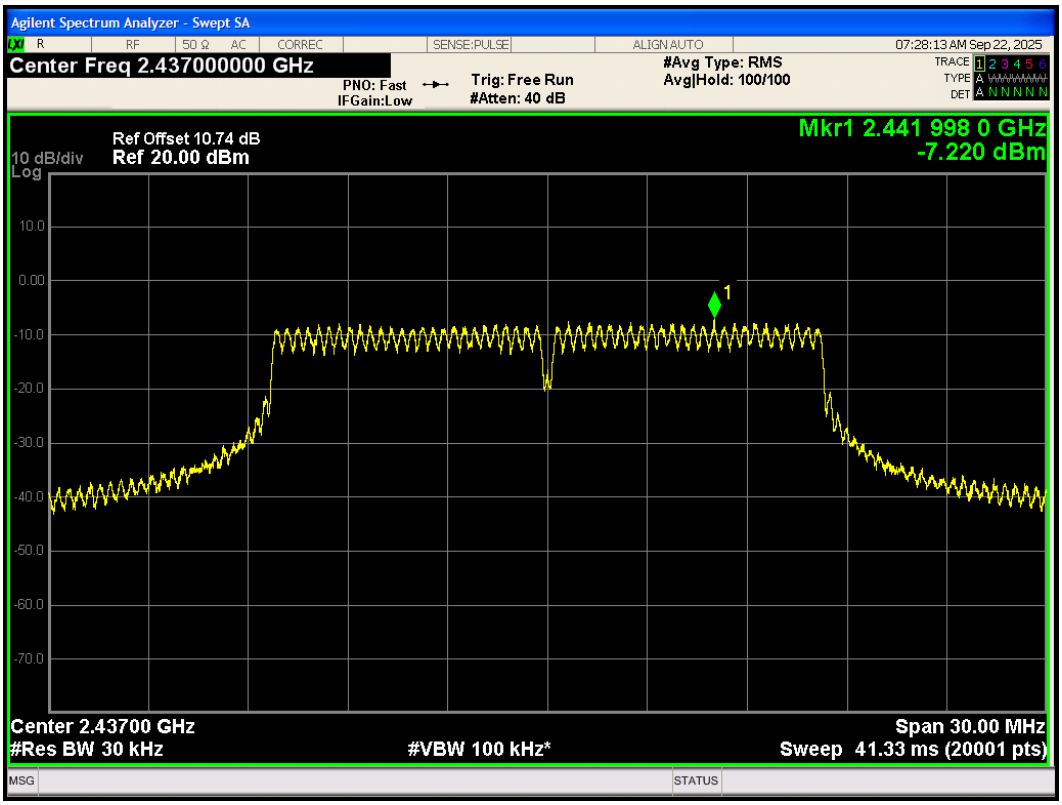
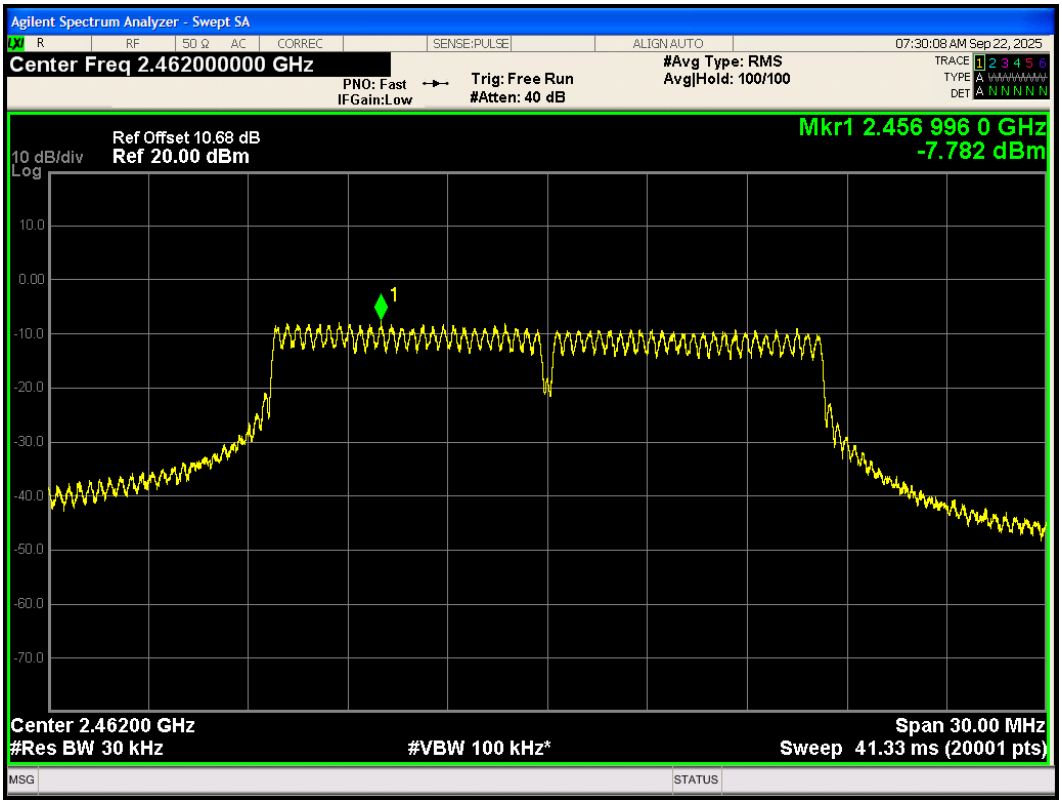
PSD 802.11g 2437MHz



PSD 802.11g 2462MHz



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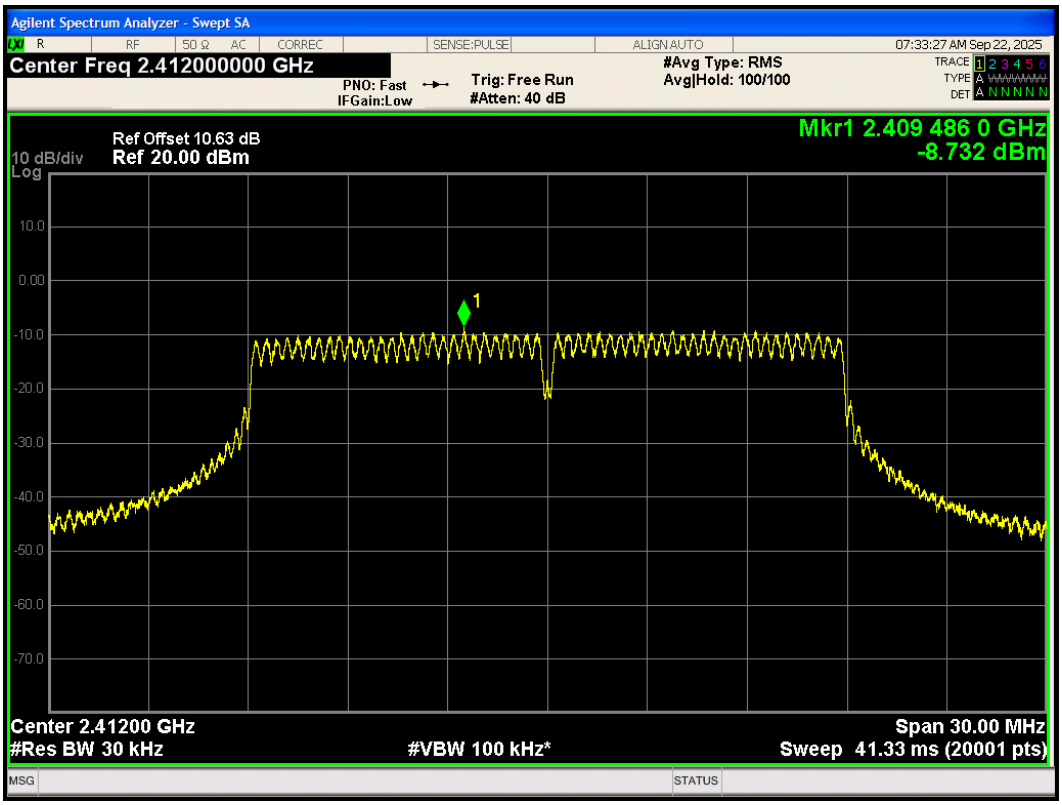
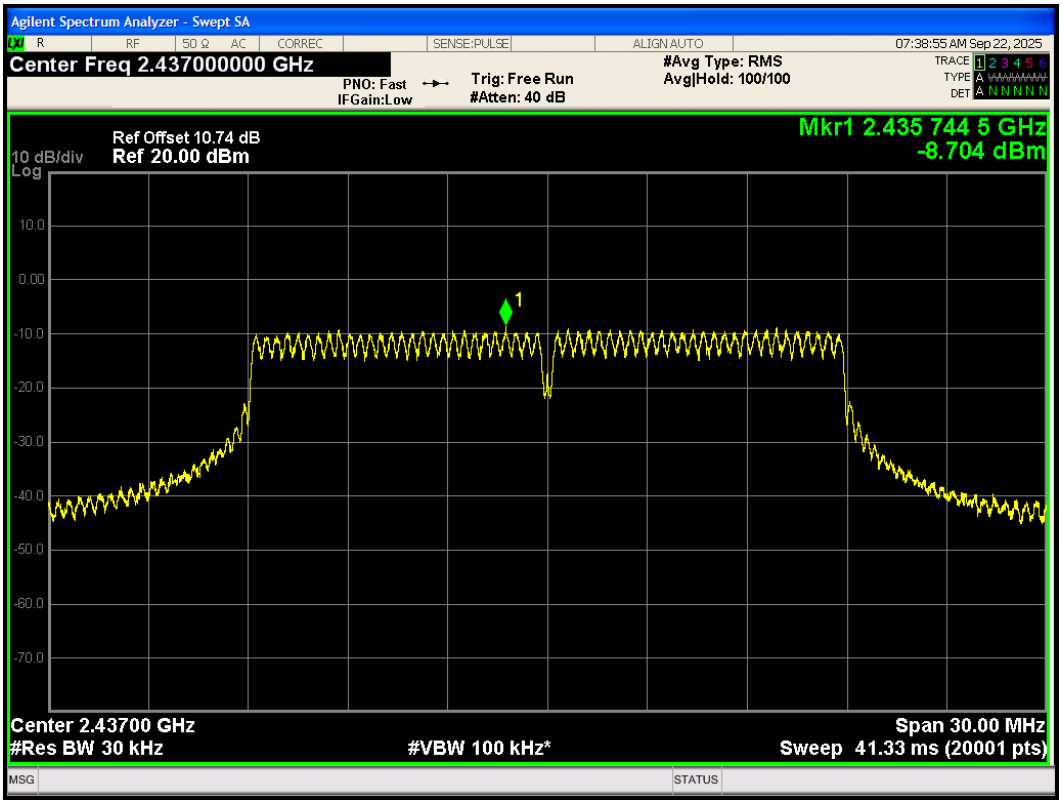
PSD 802.11n(HT20) 2412MHz



PSD 802.11n(HT20) 2437MHz



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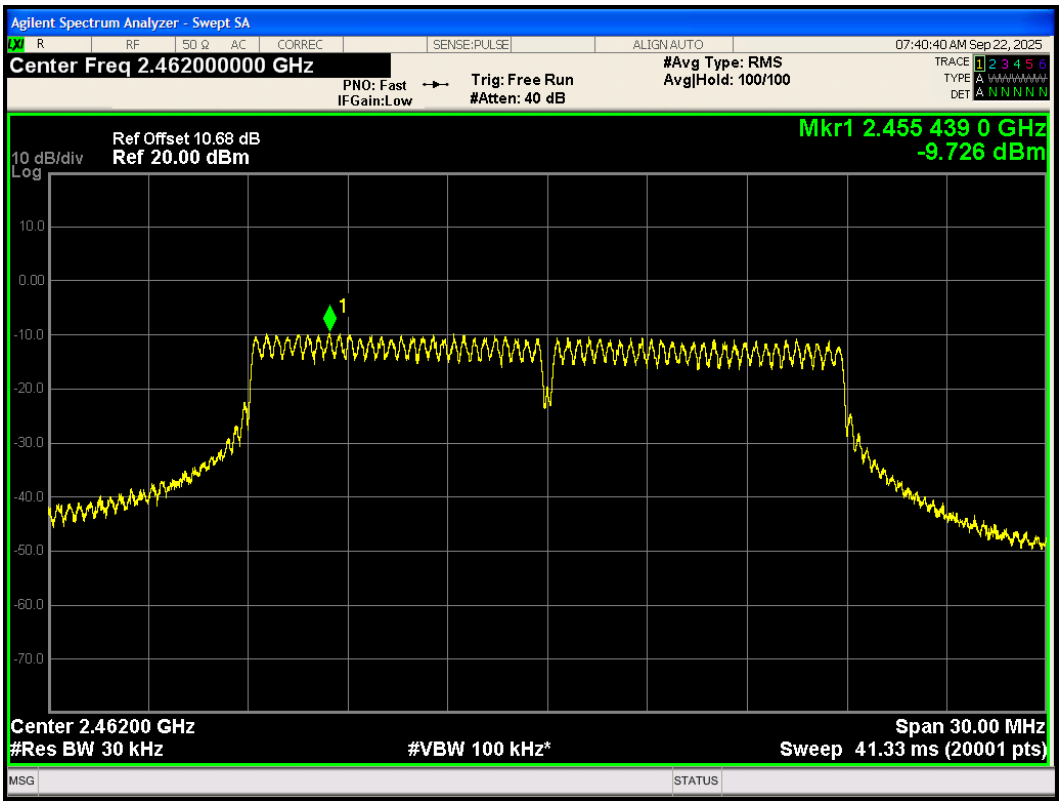
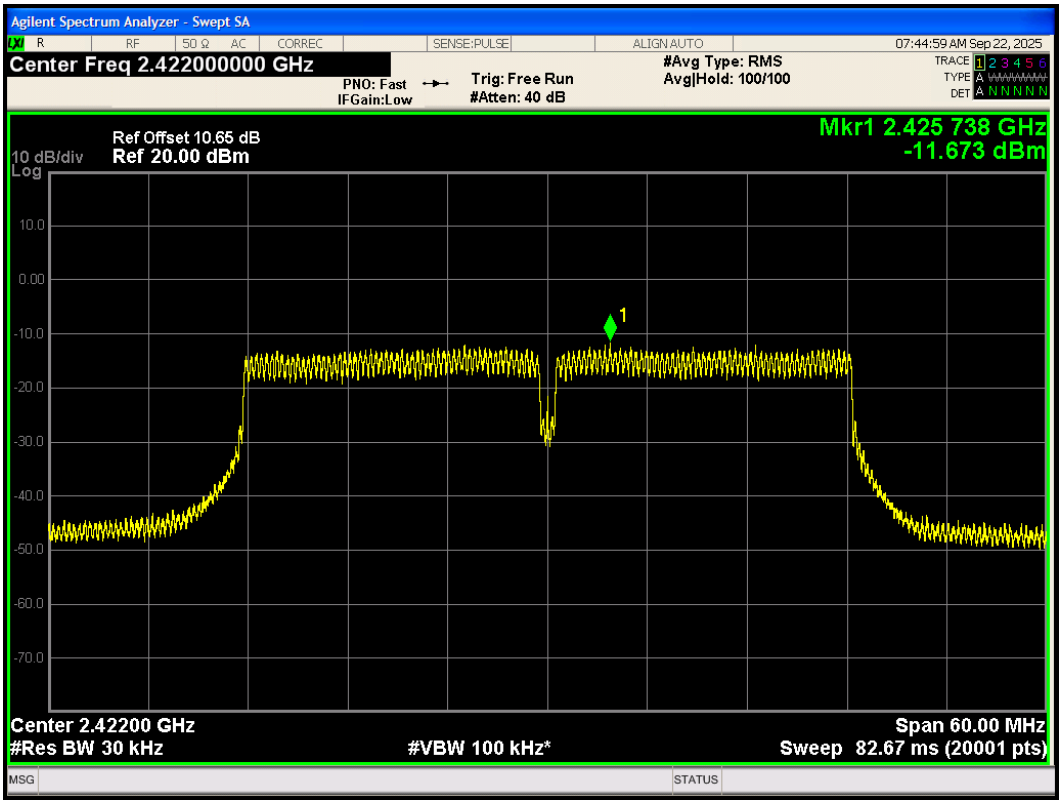
PSD 802.11n(HT20) 2462MHz



PSD 802.11n(HT40) 2422MHz



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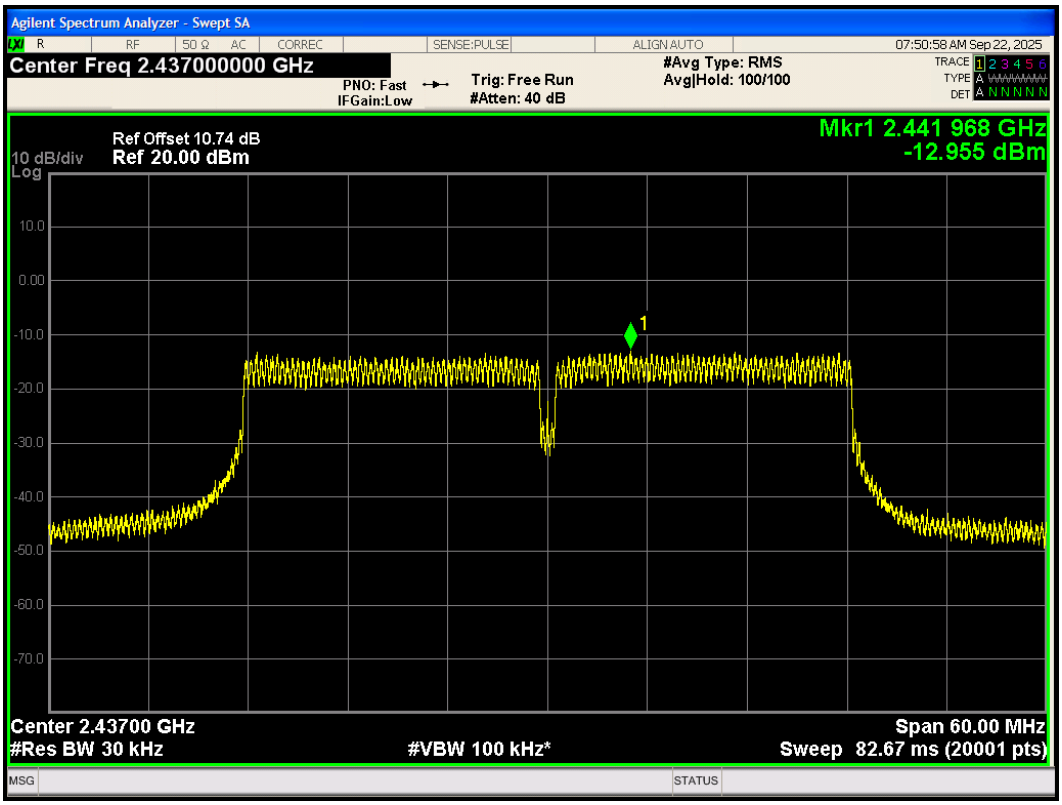
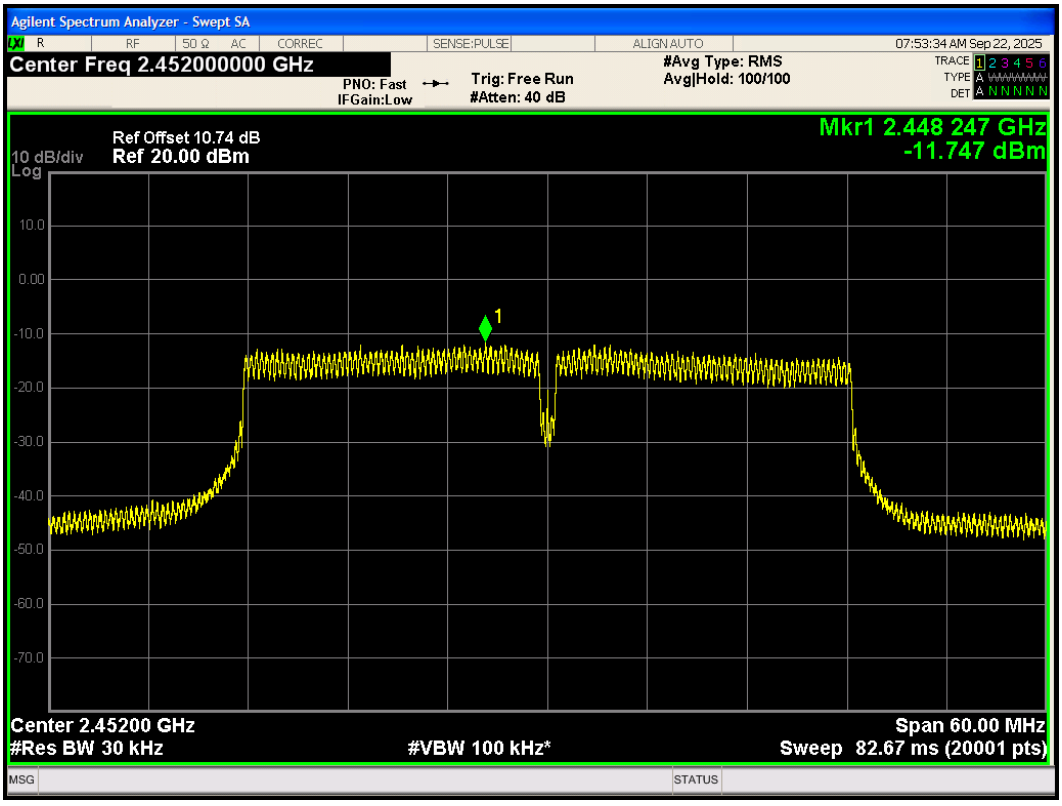
PSD 802.11n(HT40) 2437MHz



PSD 802.11n(HT40) 2452MHz



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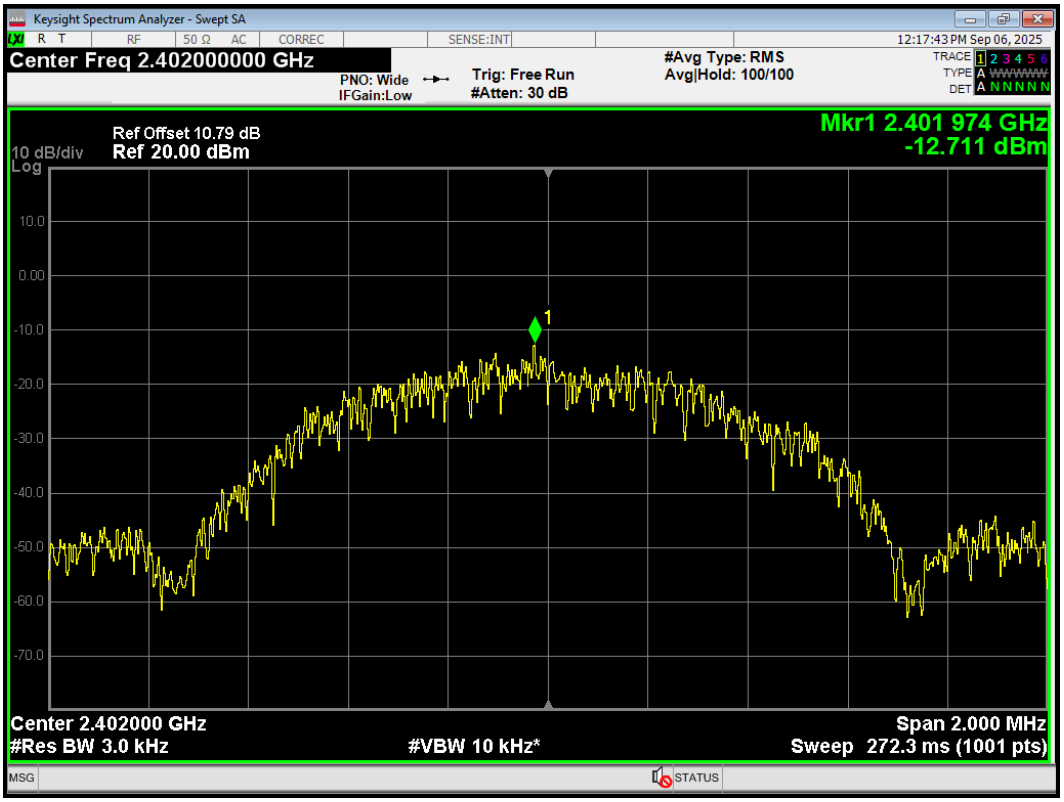
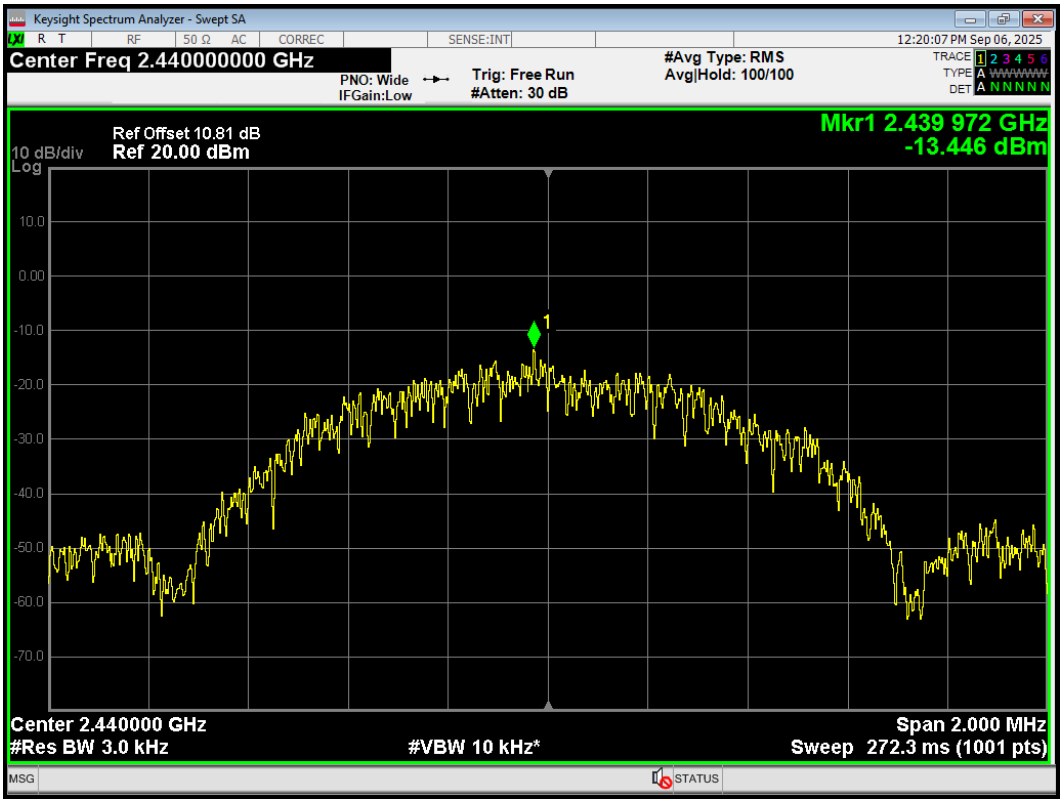
PSD BLE 2402MHz



PSD BLE 2440MHz



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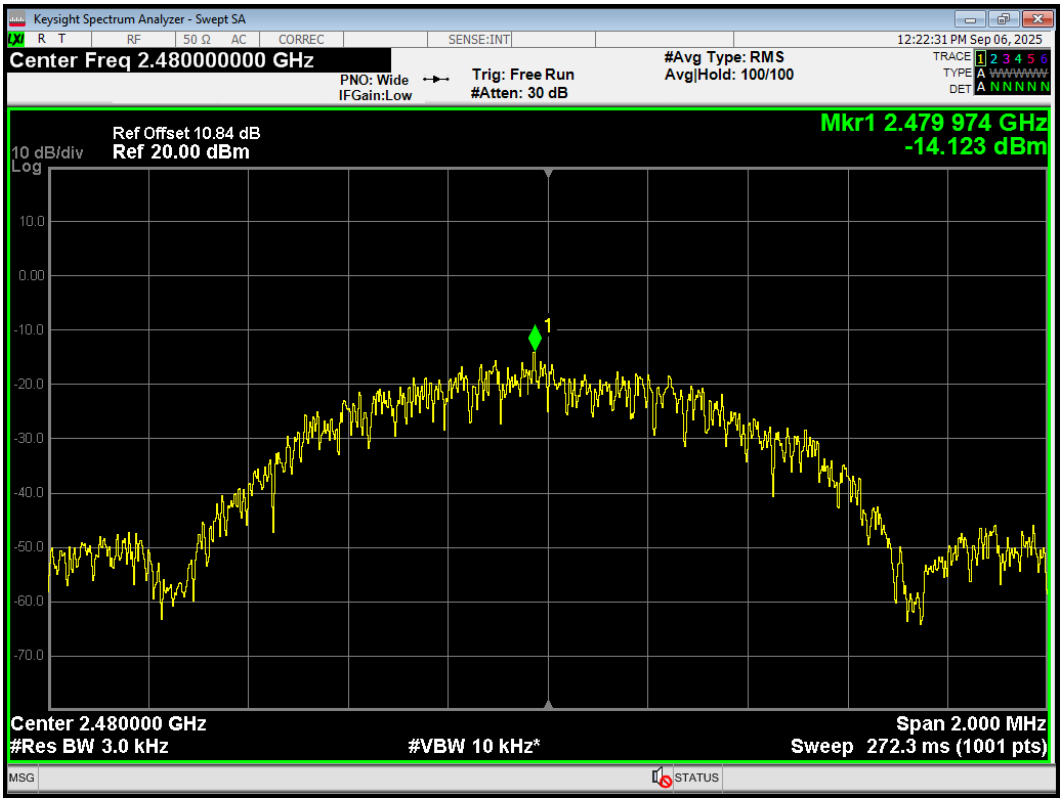
PSD BLE 2480MHz



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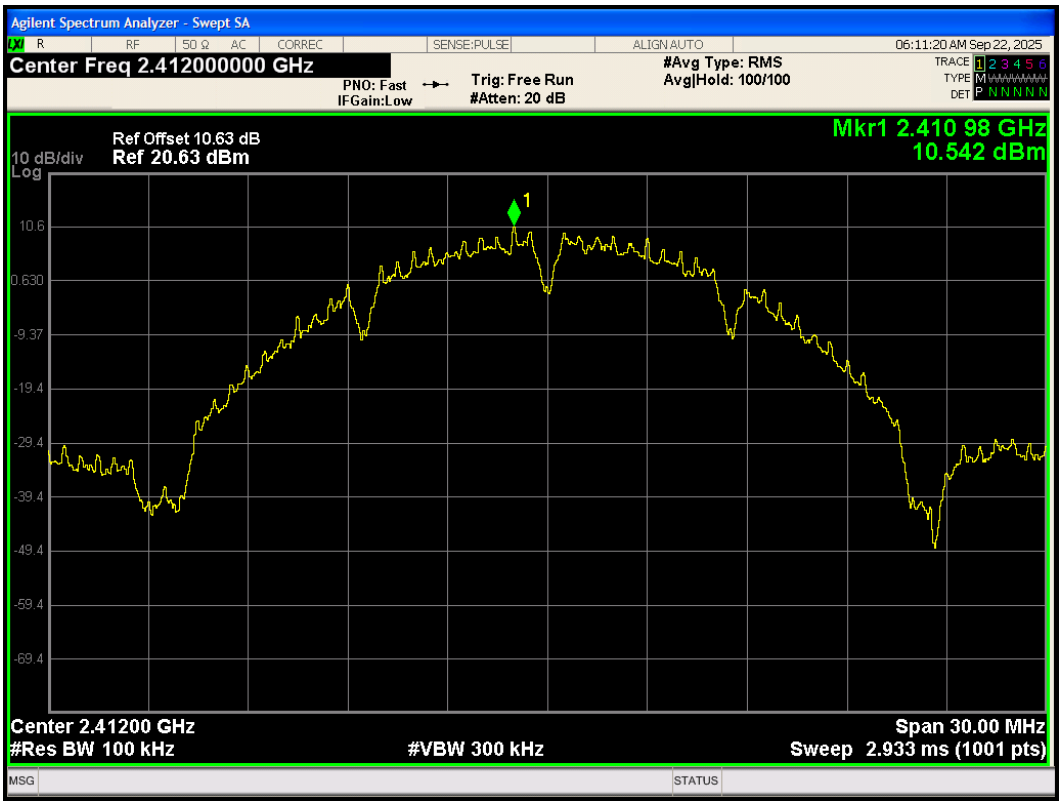
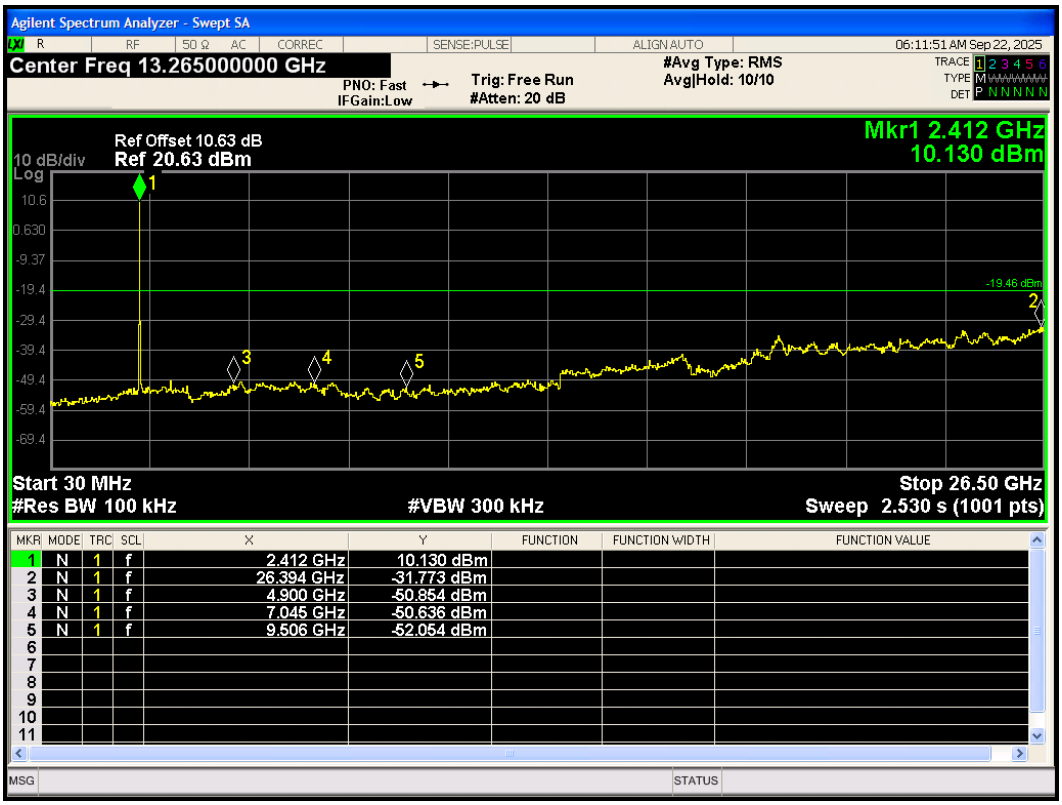
6.6. Spurious RF Conducted Emissions

Tx. Spurious 802.11b 2412MHz Ref



Tx. Spurious 802.11b 2412MHz Emission



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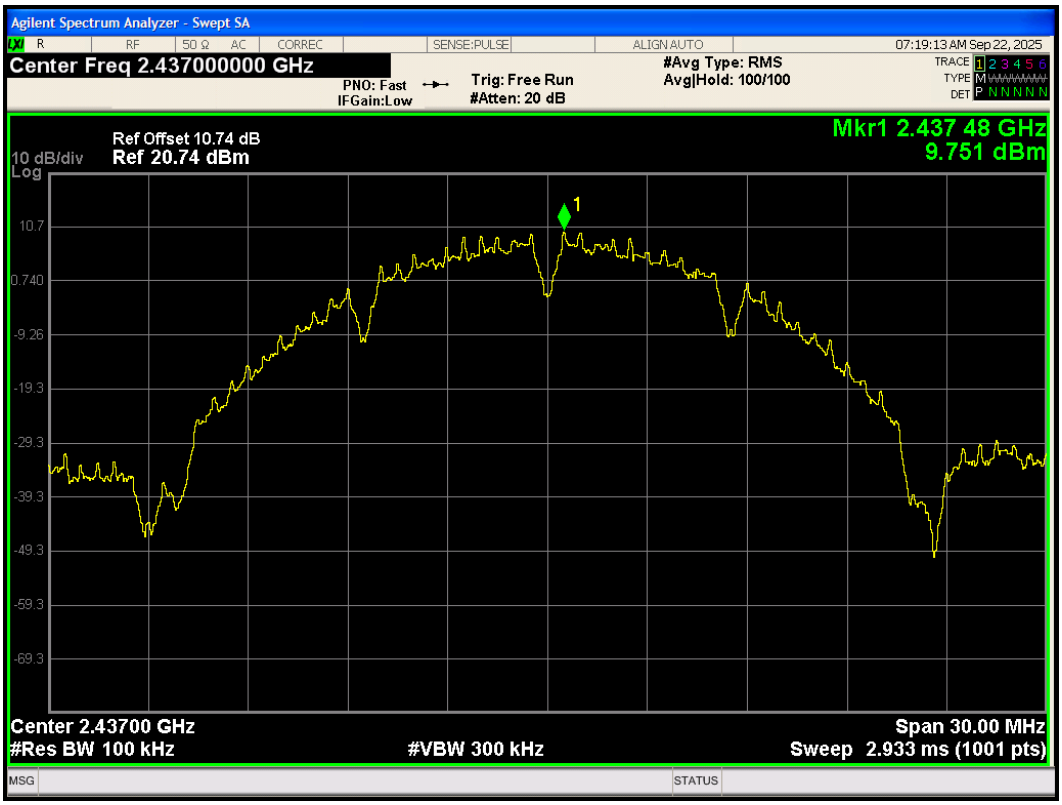
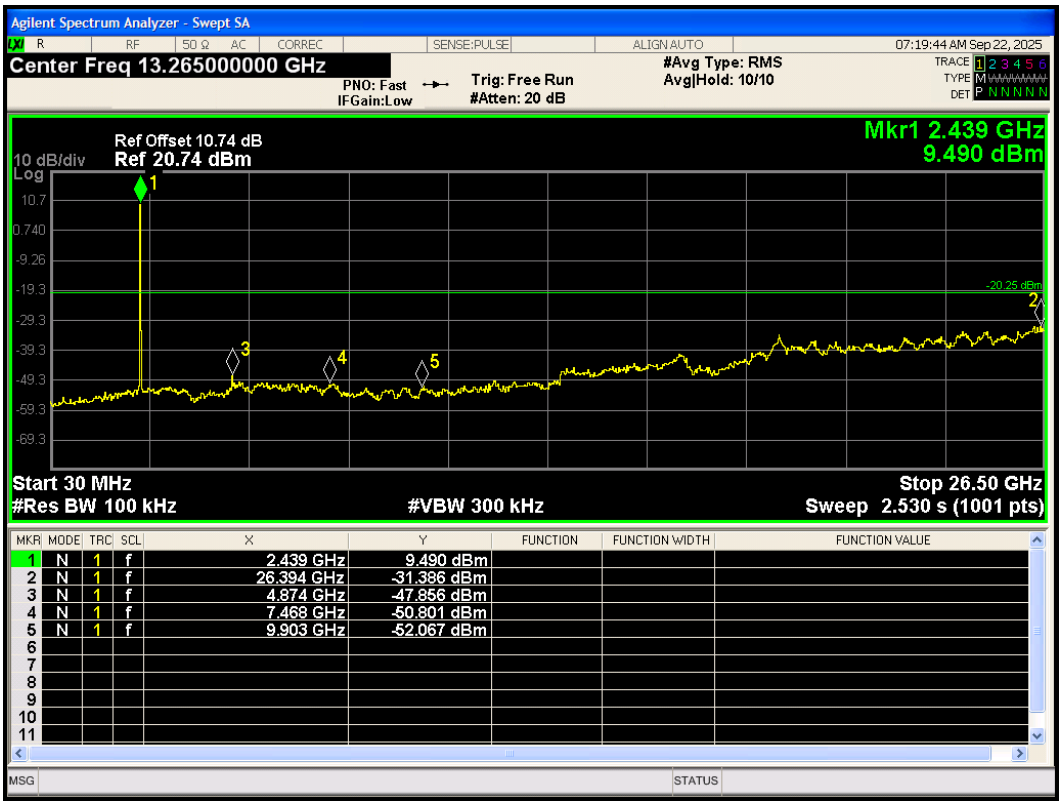
Tx. Spurious 802.11b 2437MHz Ref



Tx. Spurious 802.11b 2437MHz Emission



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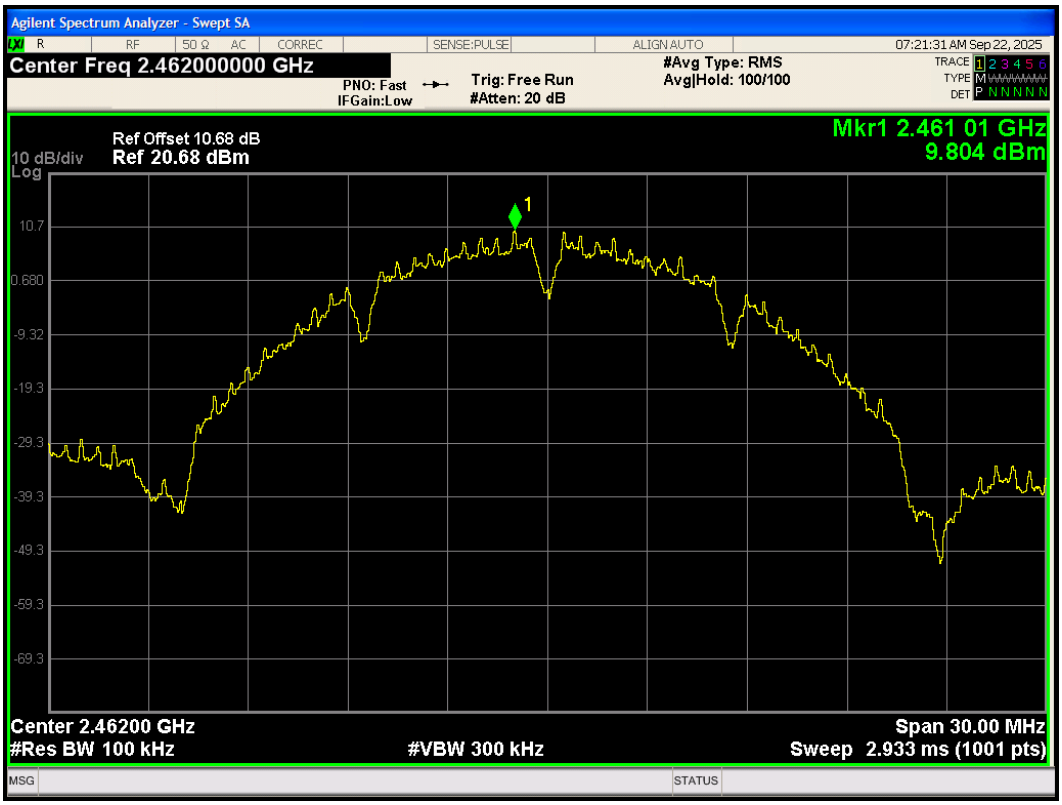
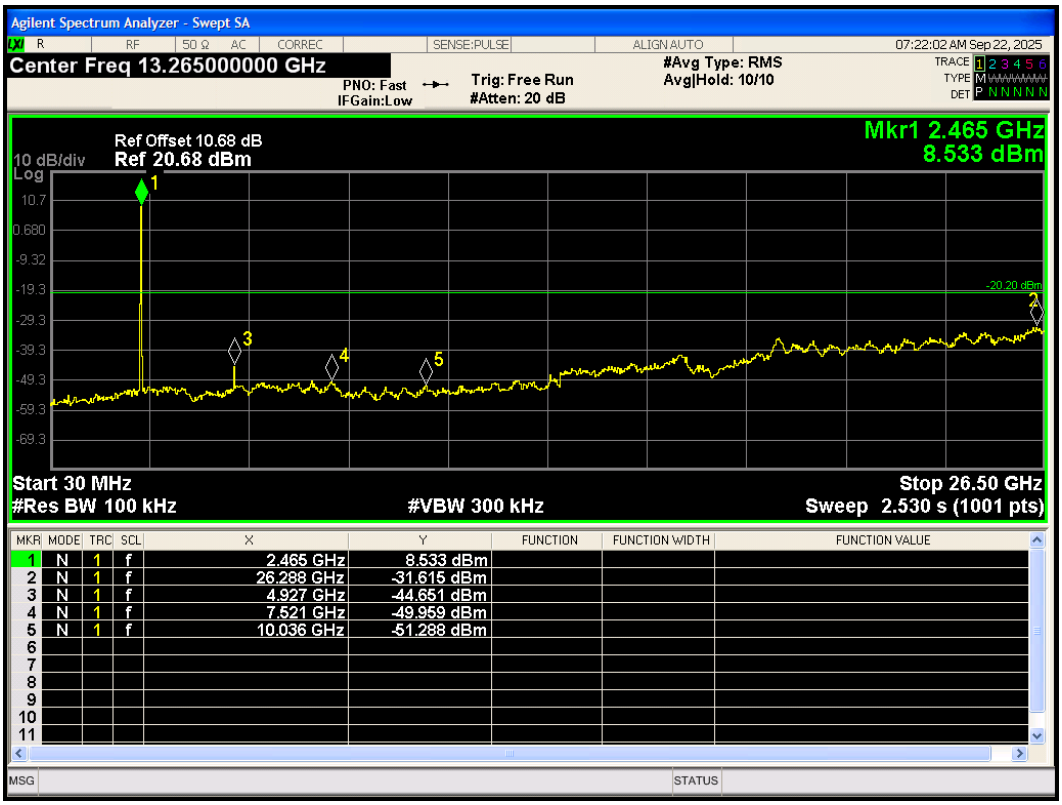
Tx. Spurious 802.11b 2462MHz Ref



Tx. Spurious 802.11b 2462MHz Emission



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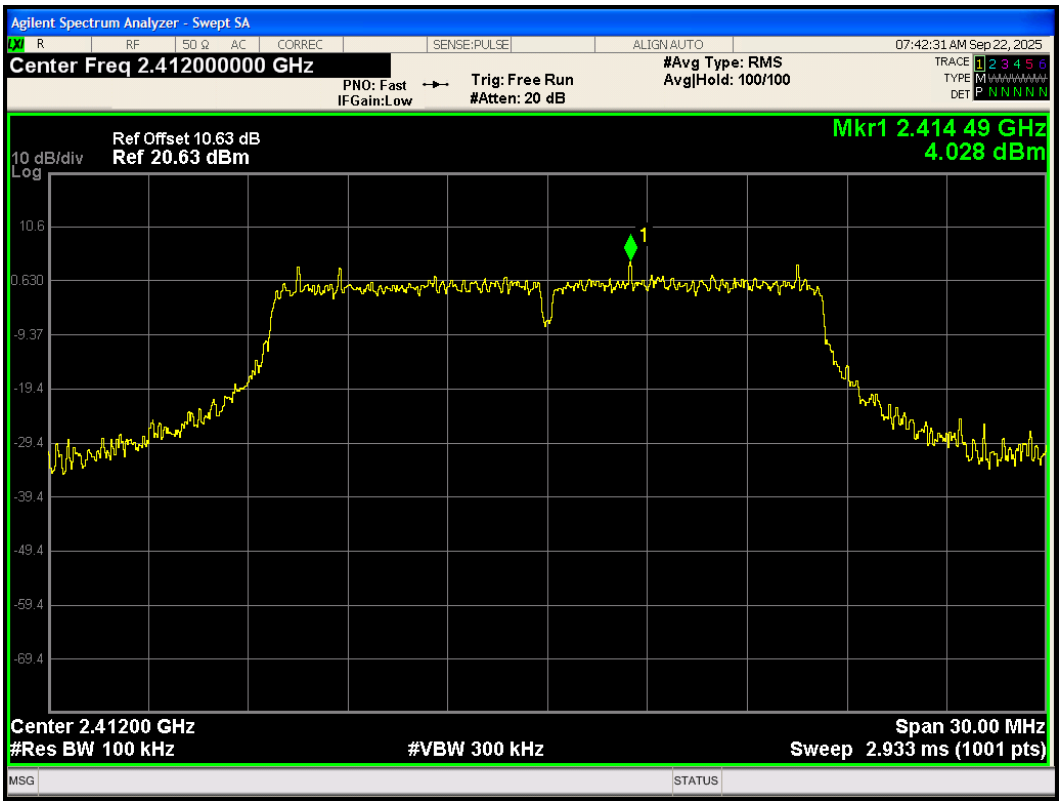
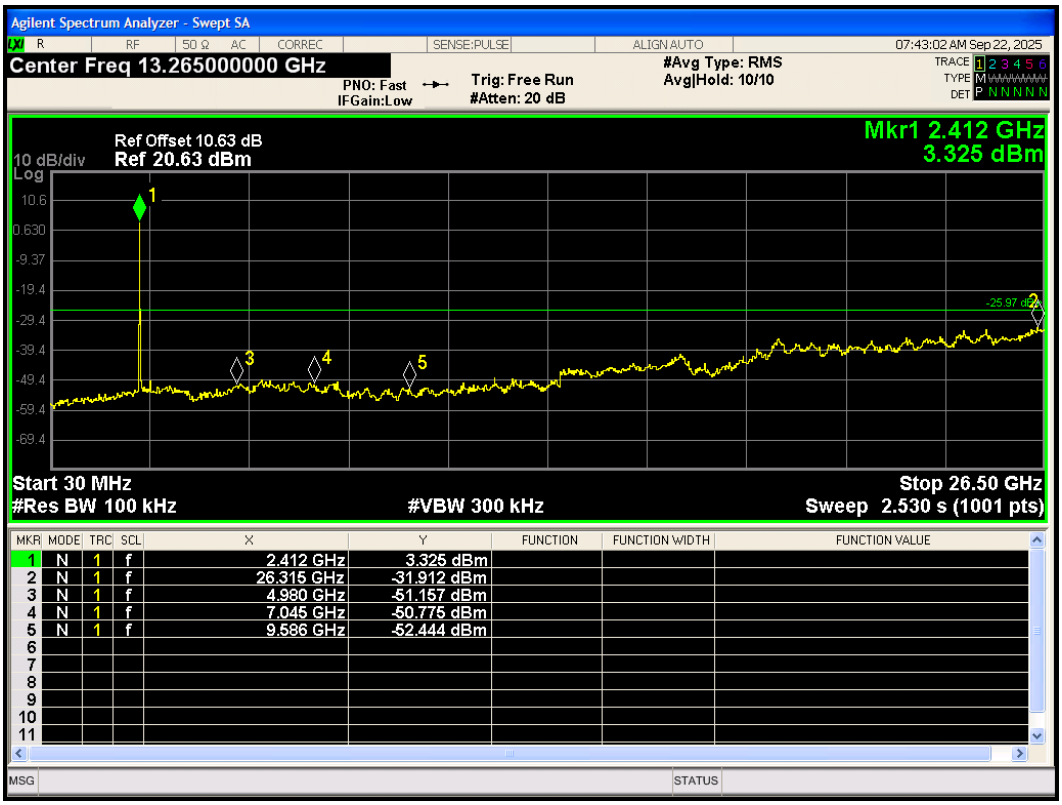
Tx. Spurious 802.11g 2412MHz Ref



Tx. Spurious 802.11g 2412MHz Emission



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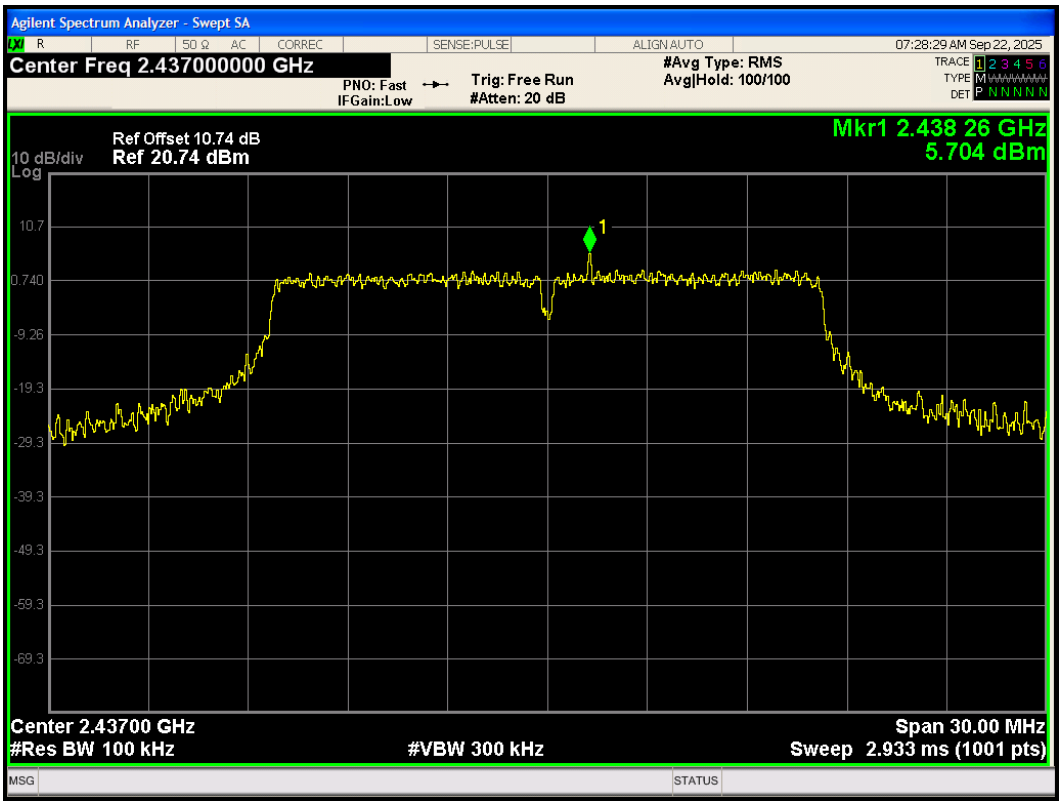
Tx. Spurious 802.11g 2437MHz Ref



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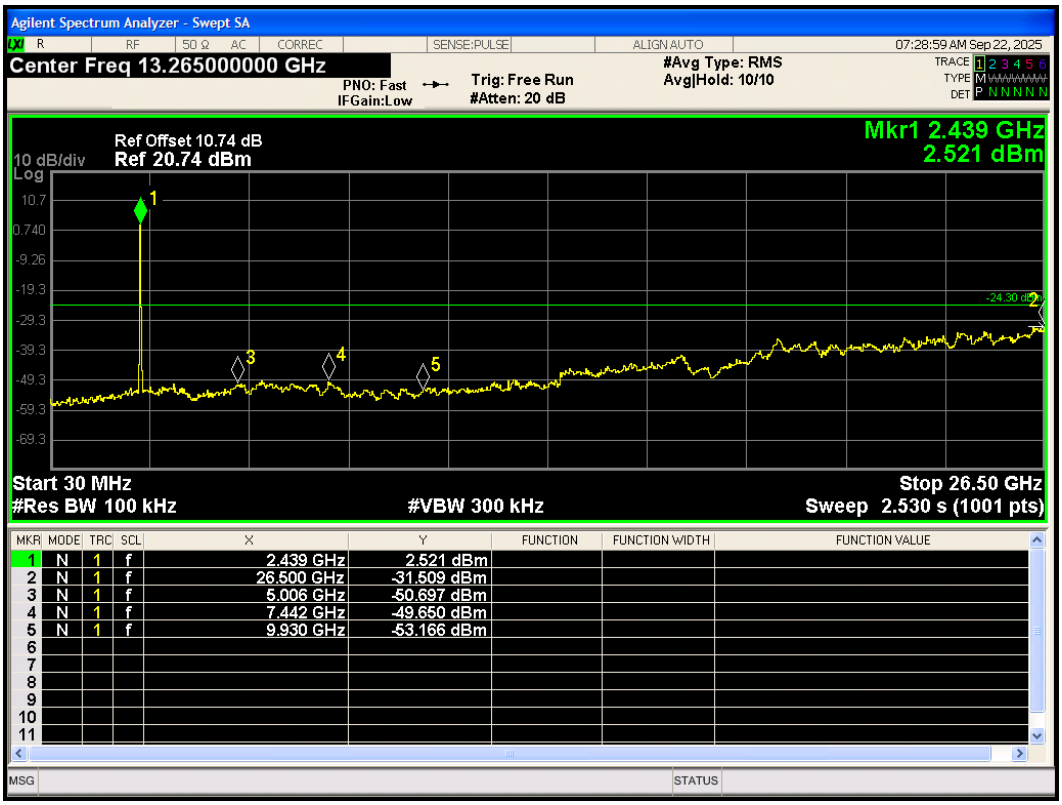

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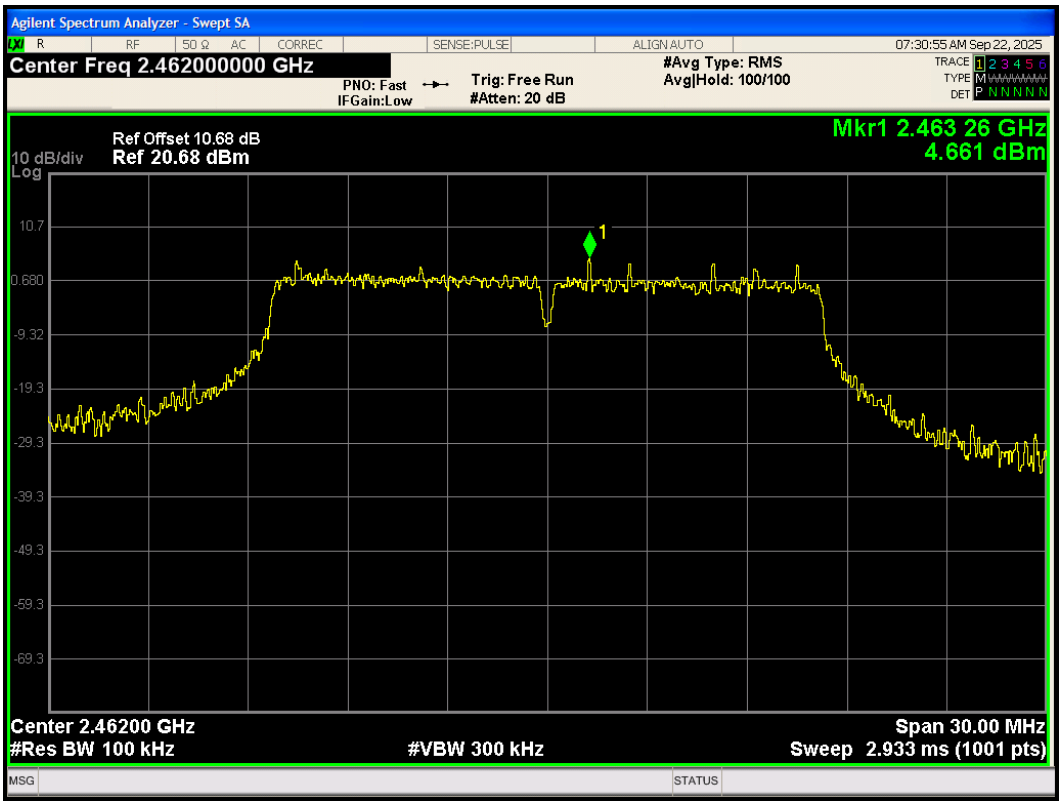
Tx. Spurious 802.11g 2462MHz Ref



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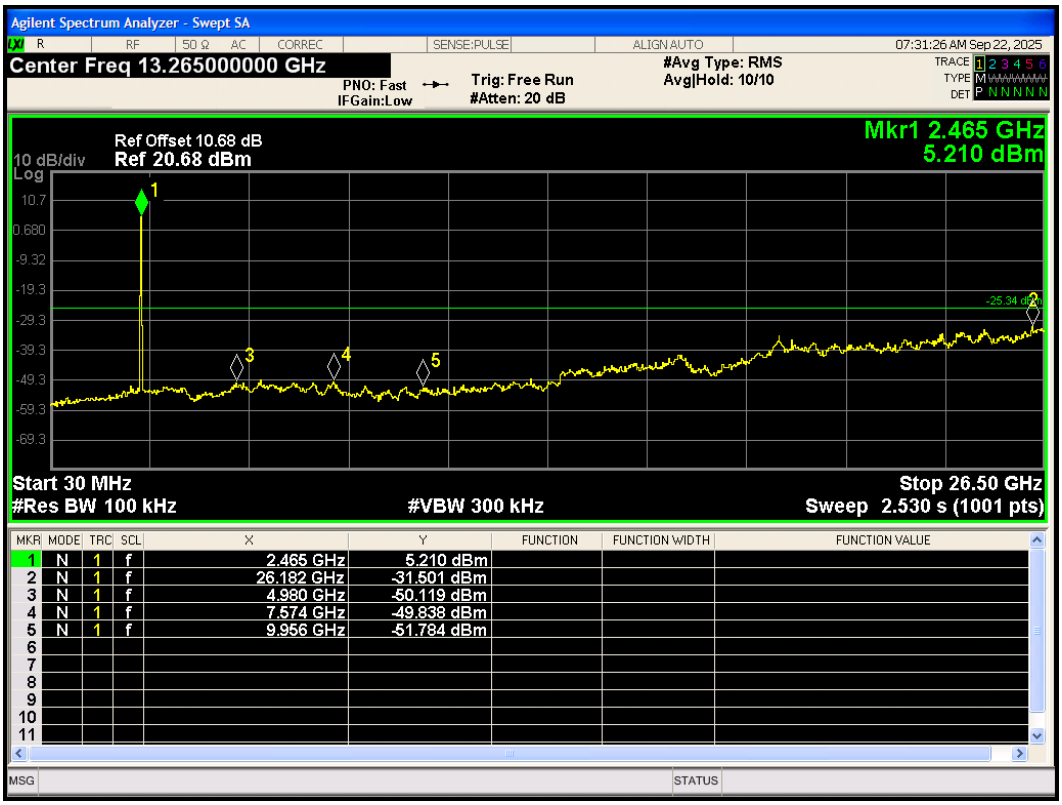

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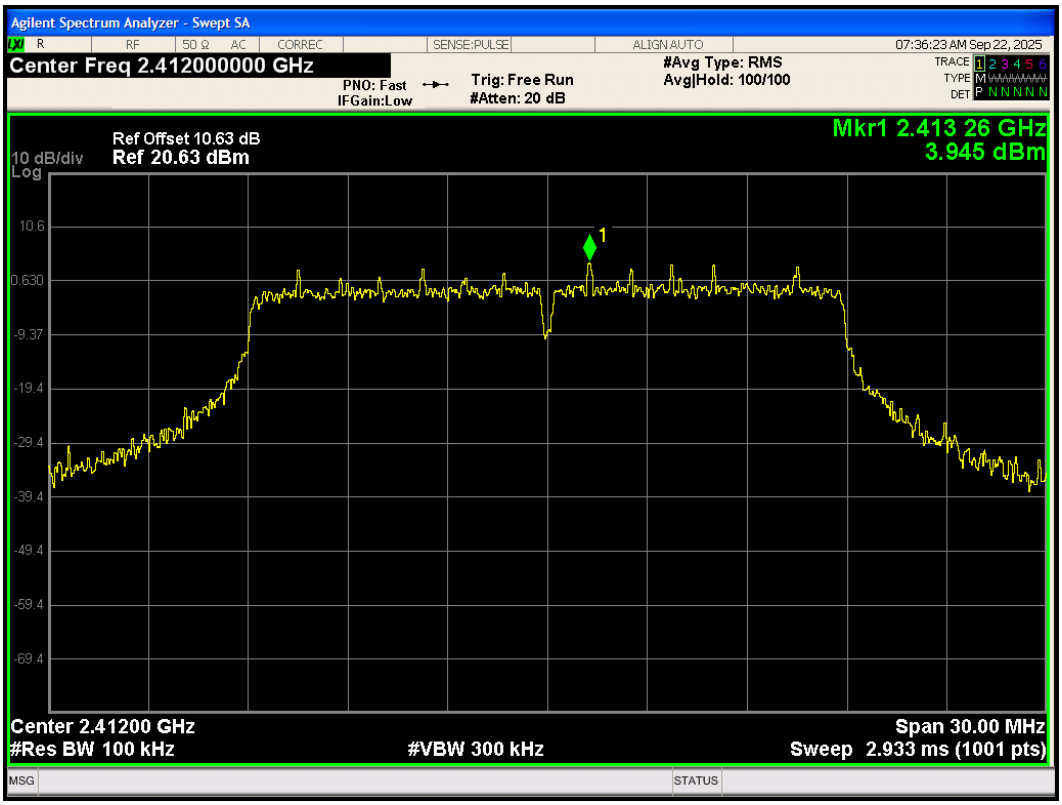

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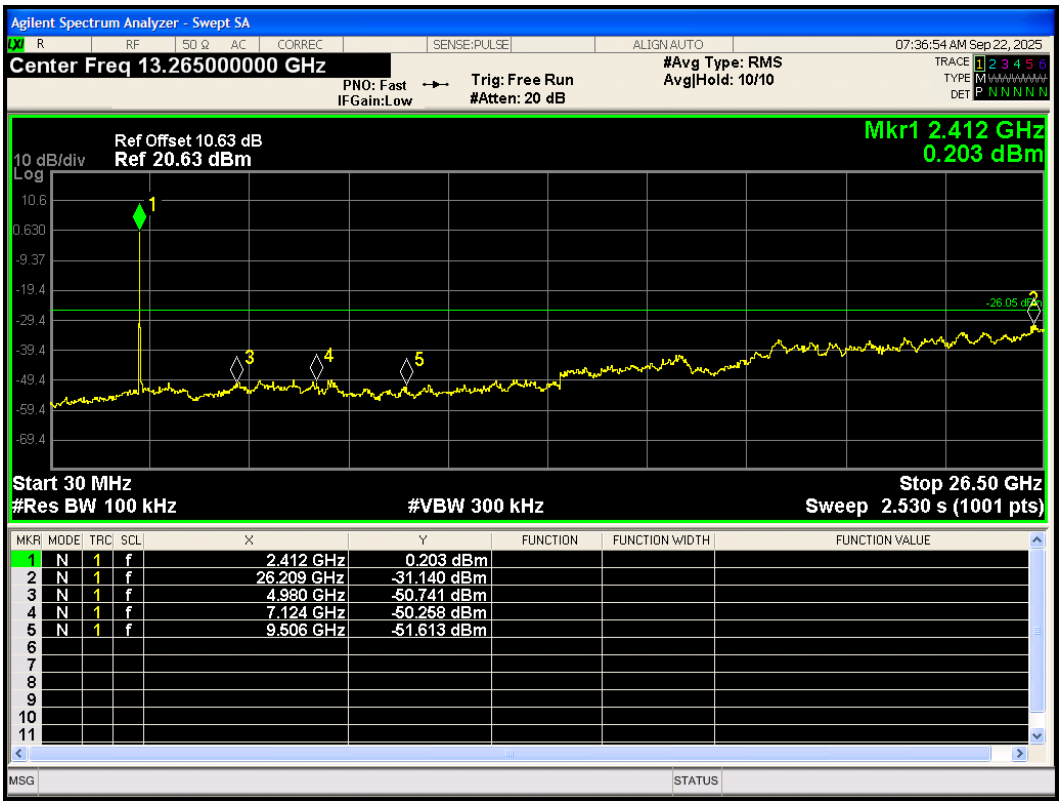

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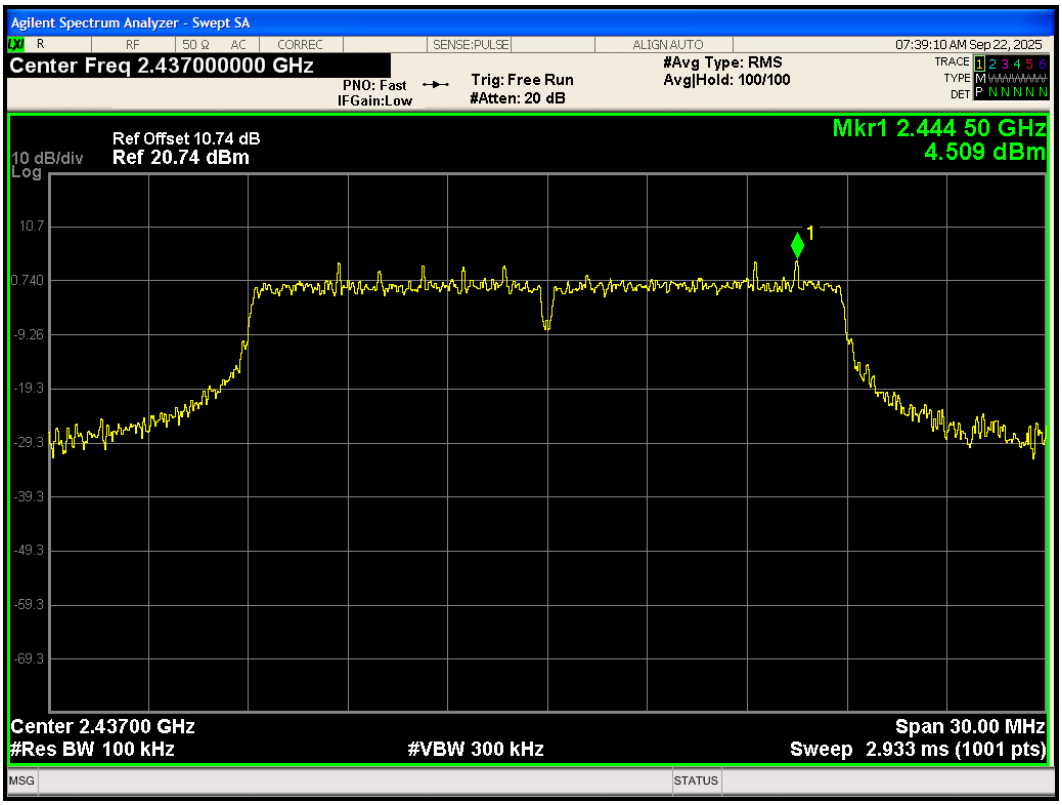

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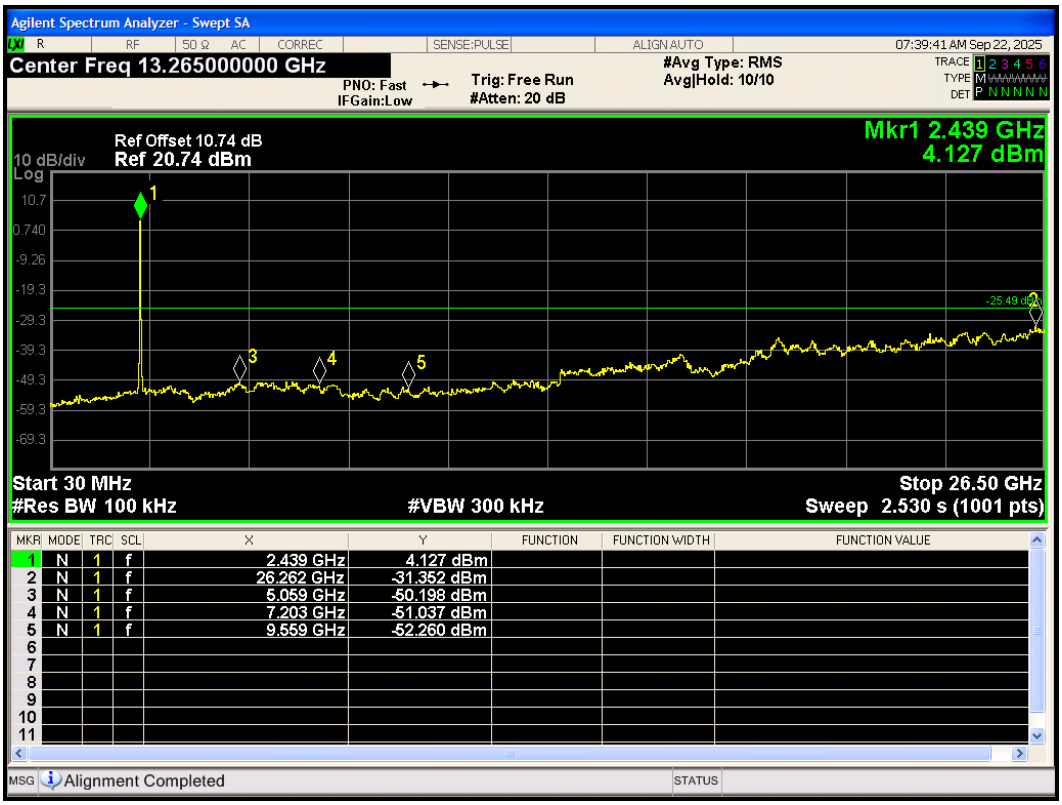

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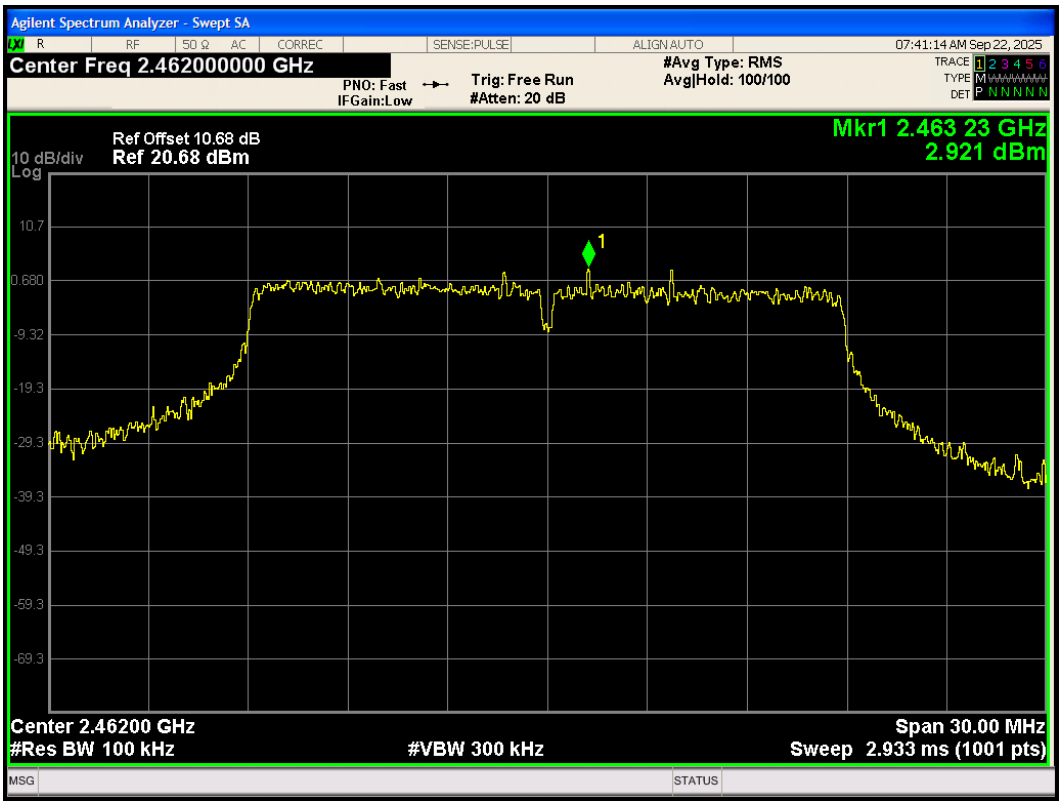

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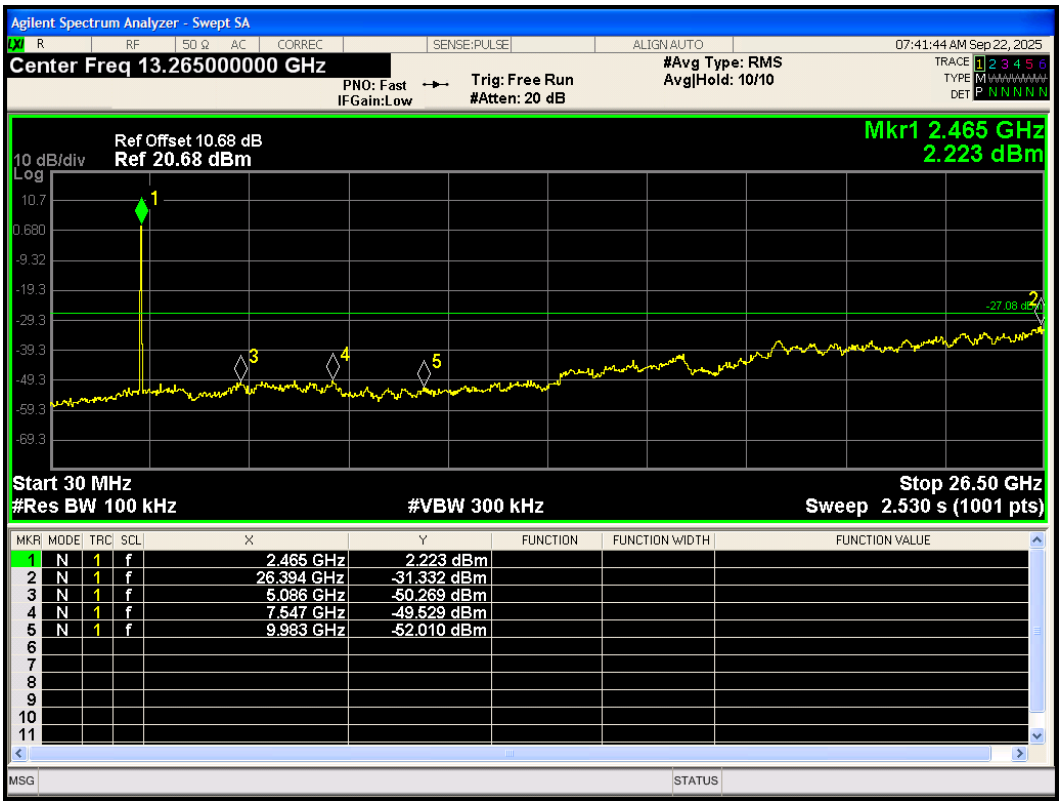

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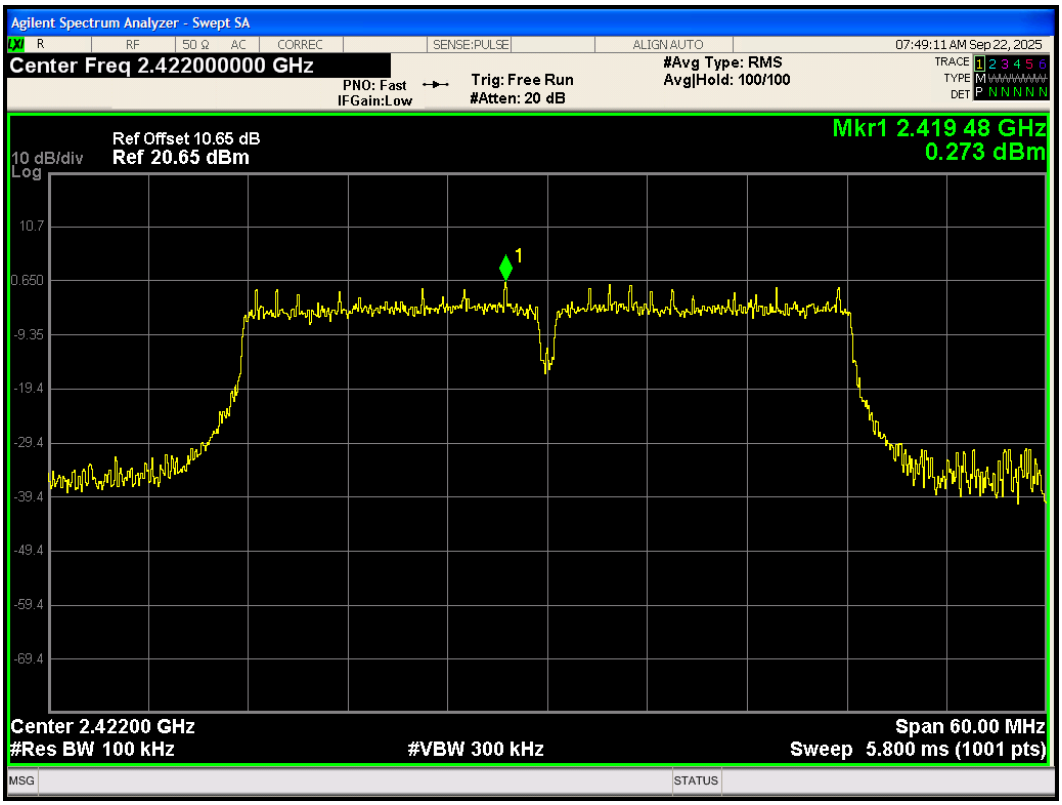
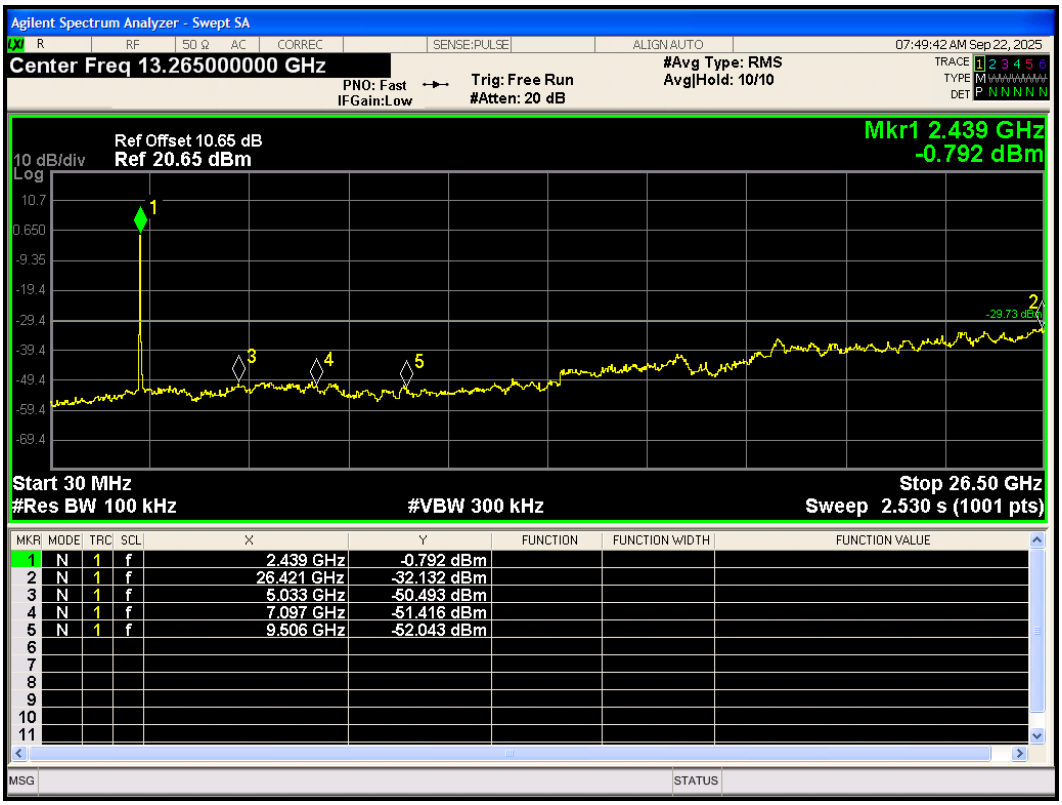
Tx. Spurious 802.11n(HT40) 2422MHz Ref



Tx. Spurious 802.11n(HT40) 2422MHz Emission



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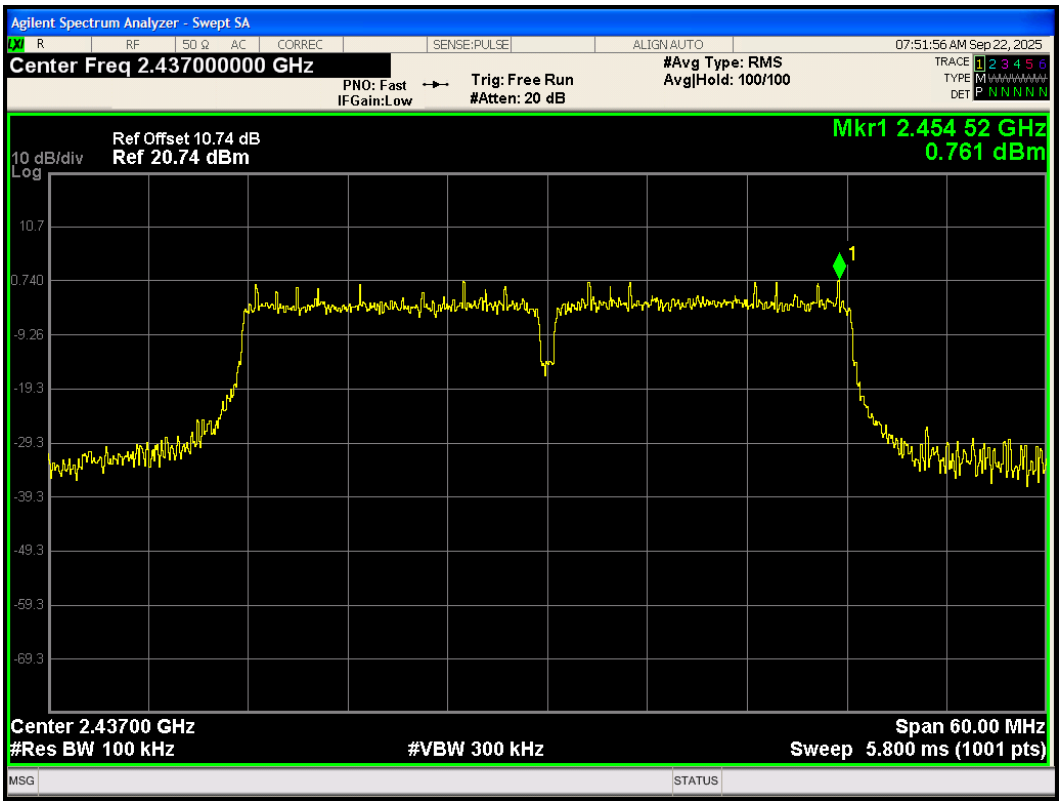

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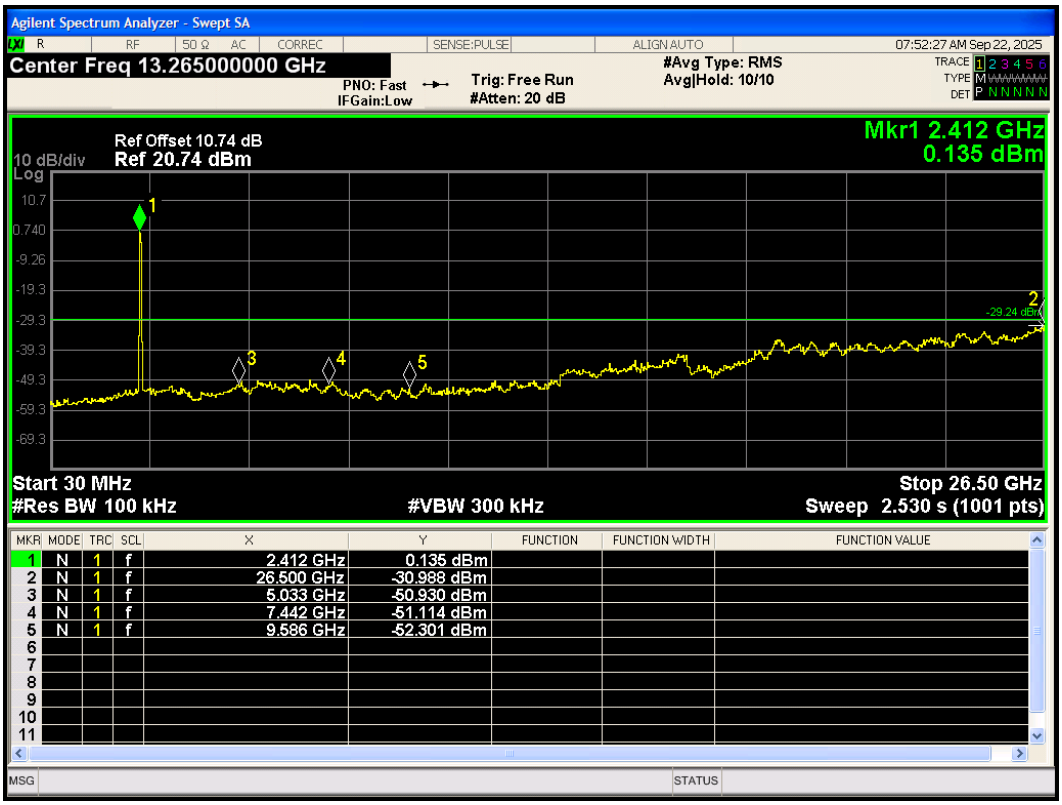

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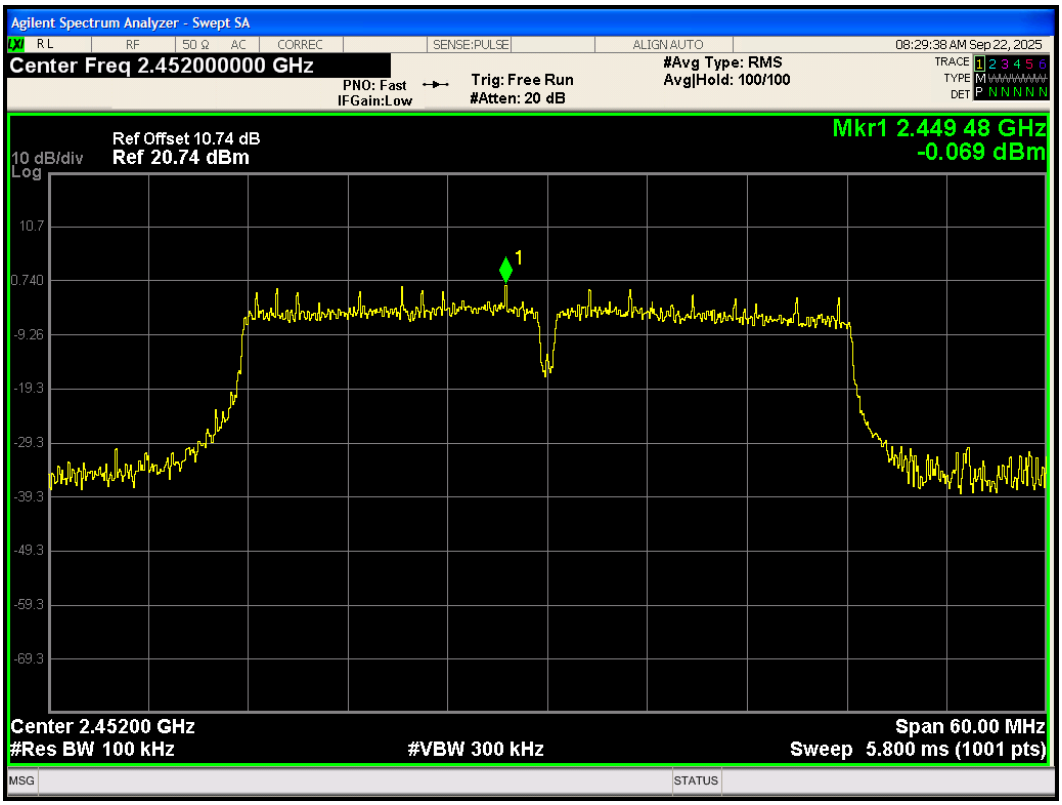
Tx. Spurious 802.11n(HT40) 2452MHz Ref



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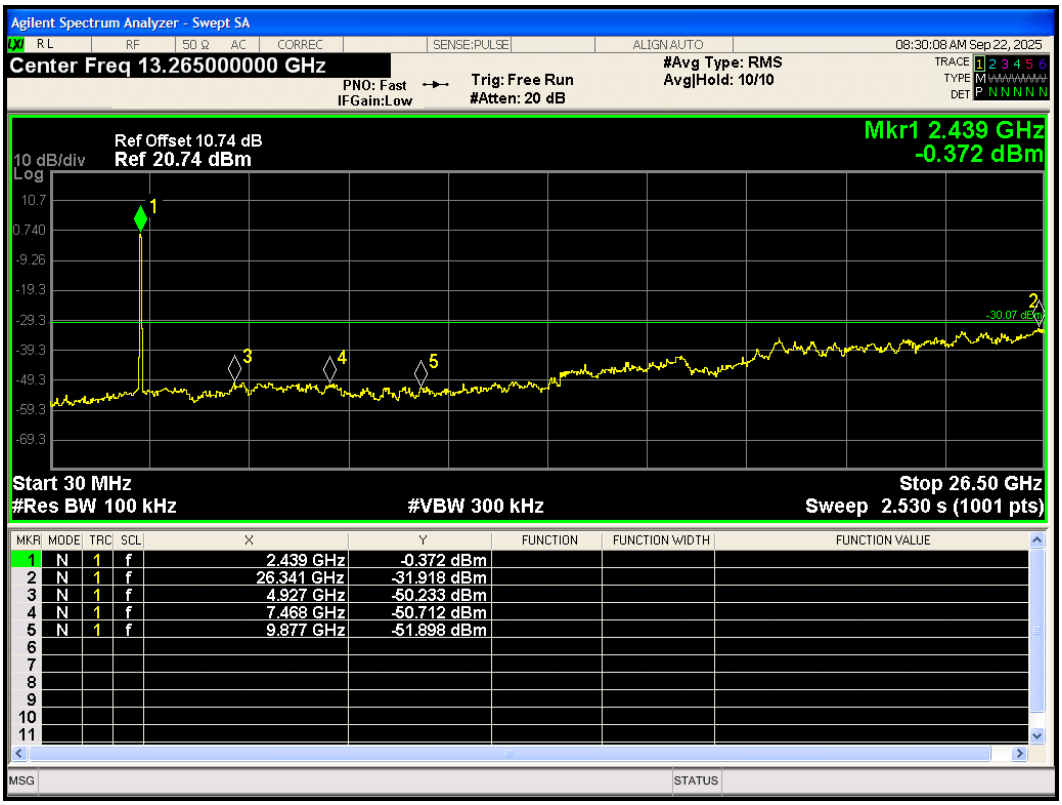

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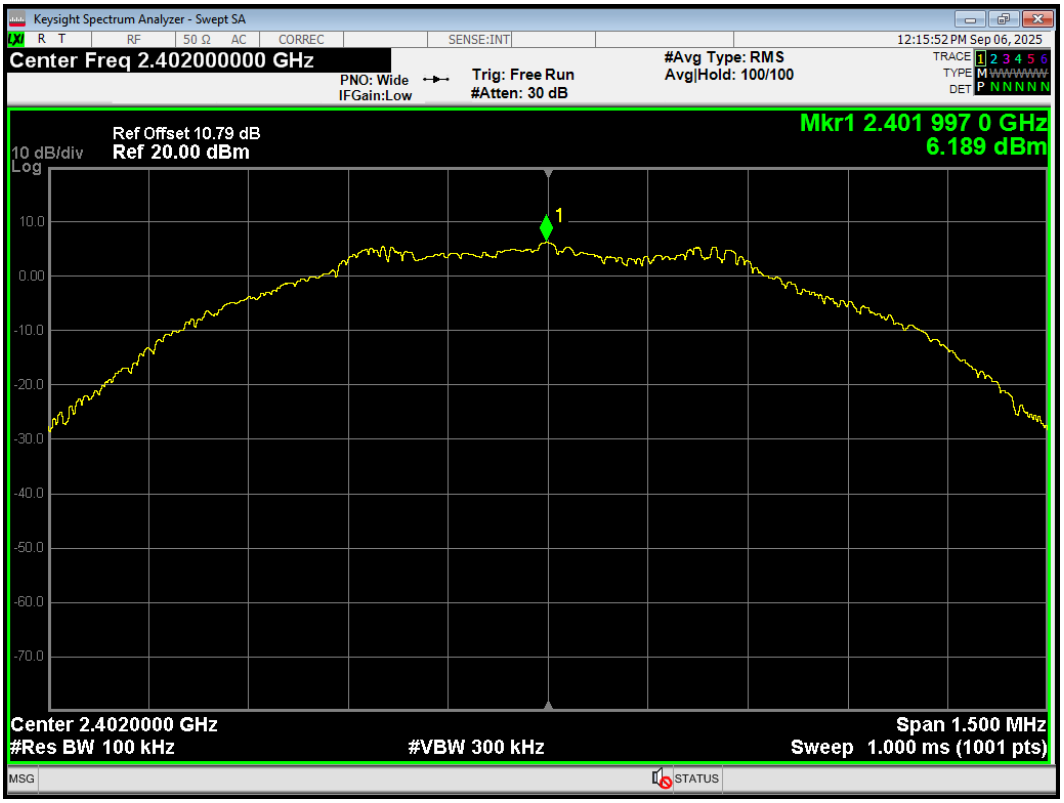
Tx. Spurious BLE 2402MHz Ref



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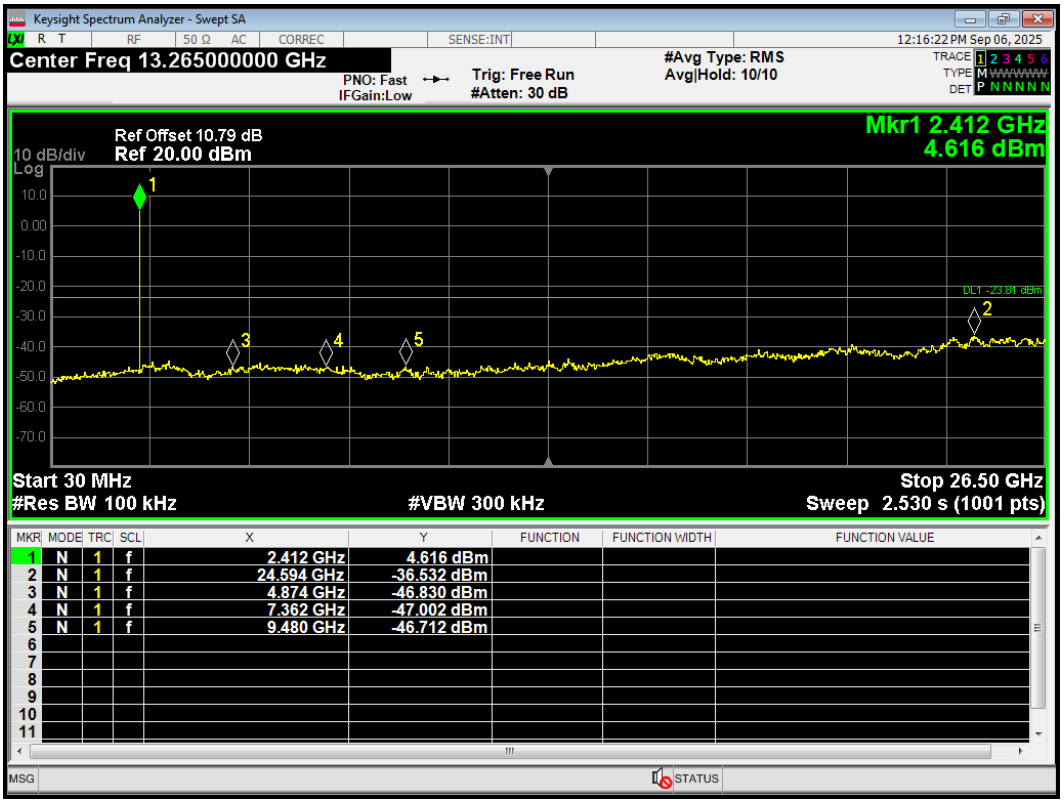

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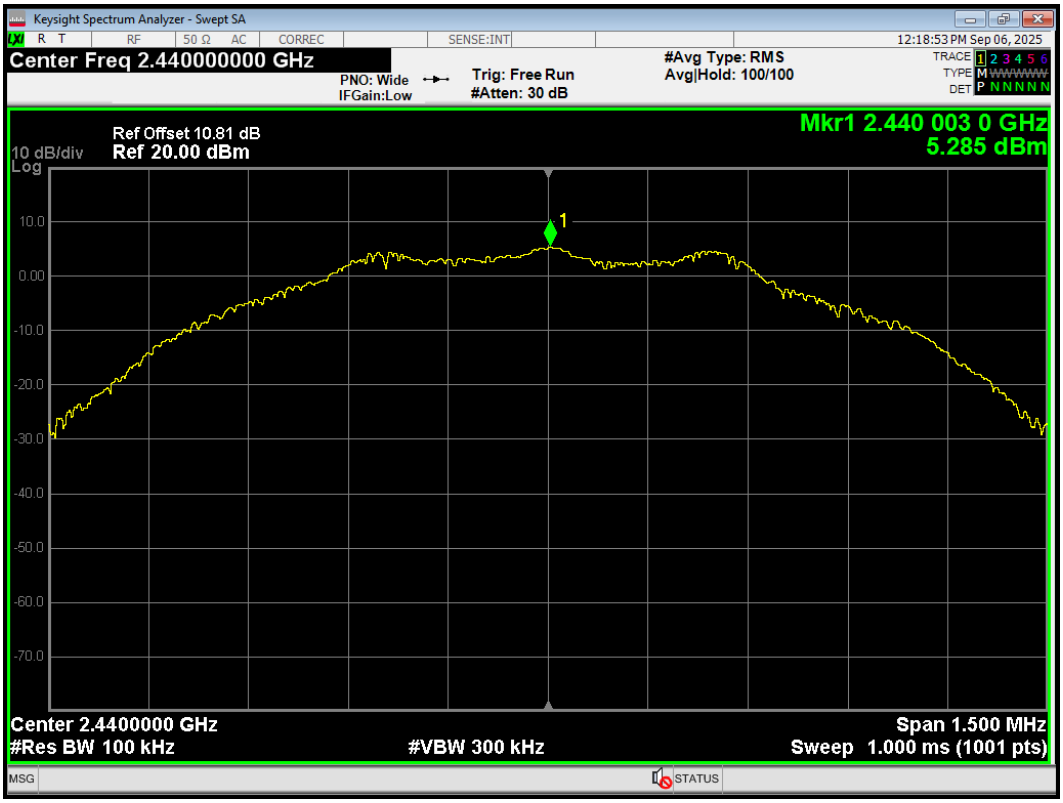
Tx. Spurious BLE 2440MHz Ref



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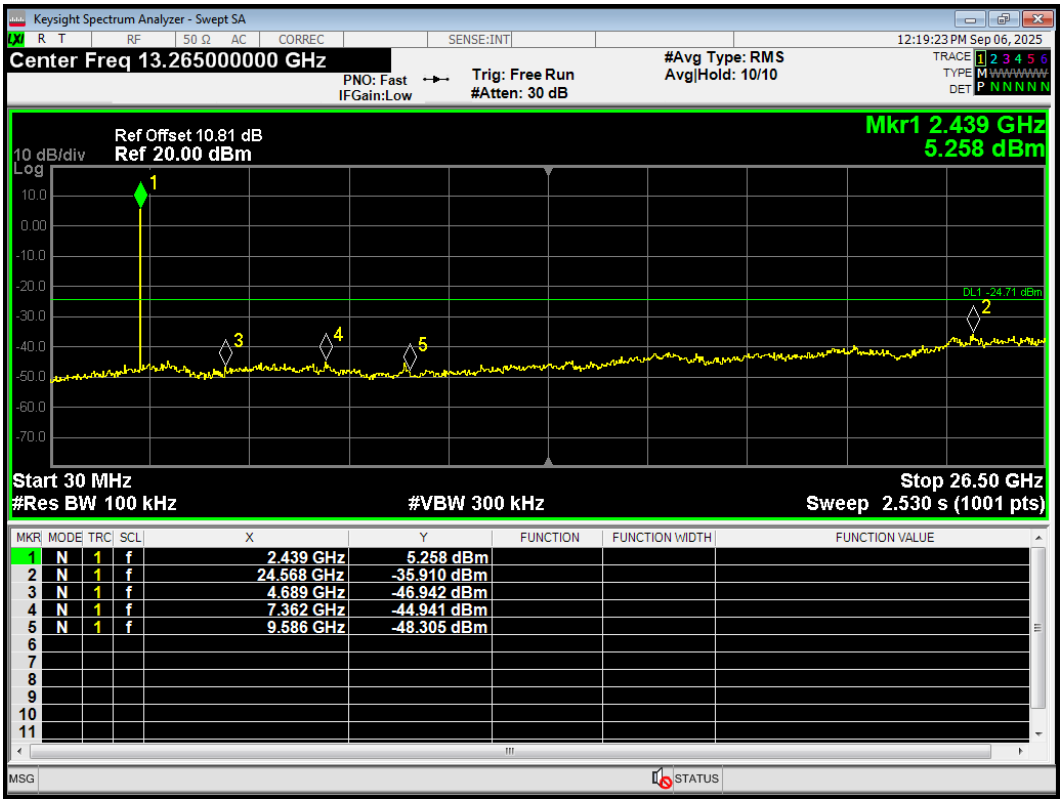

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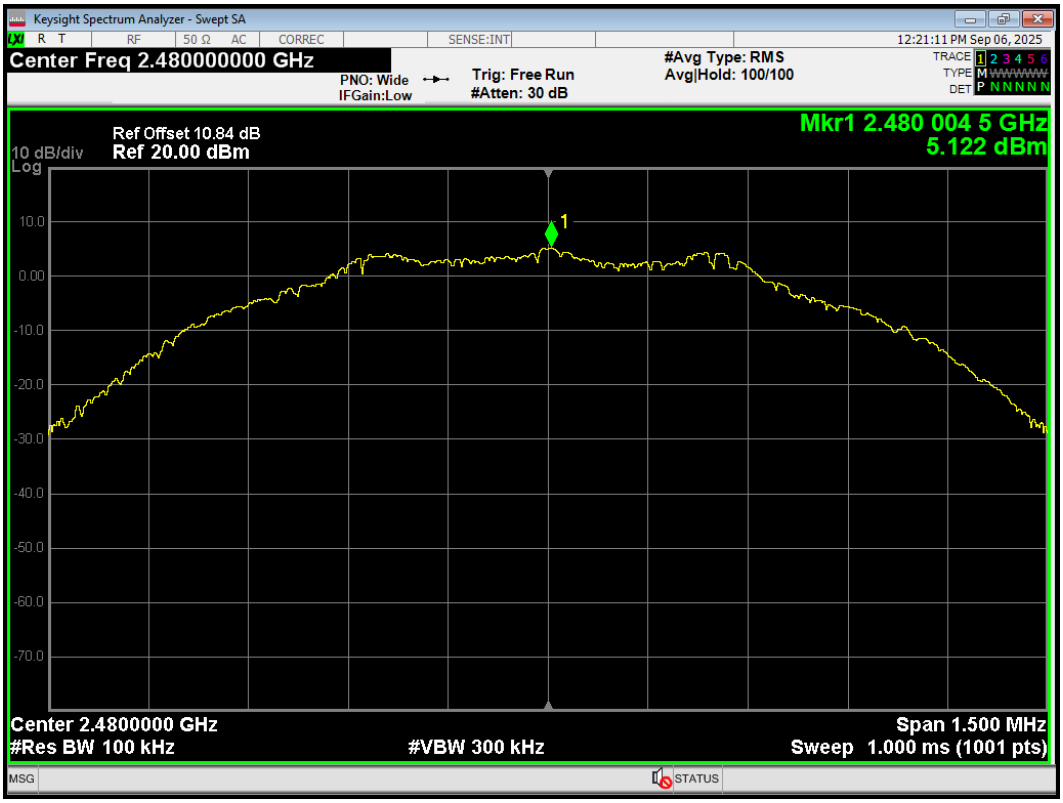
Tx. Spurious BLE 2480MHz Ref



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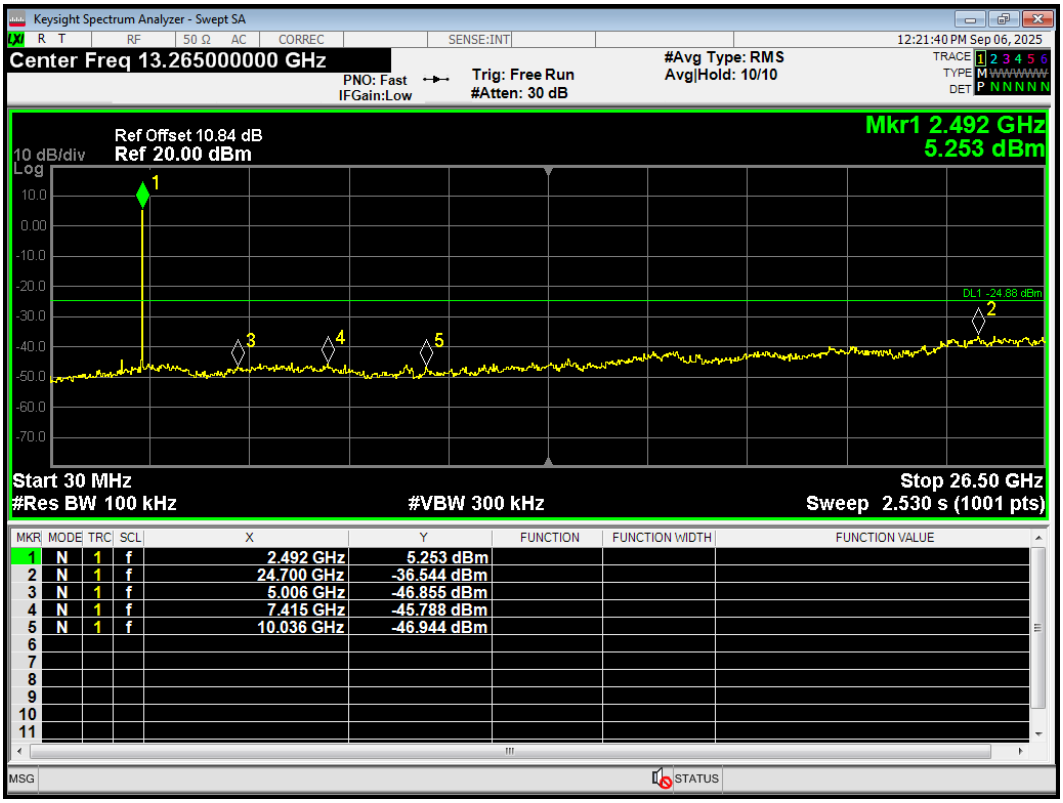

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6.7. Unwanted Emission

The detailed test data see *EFTA25090010-IE-02-R2-ANNEX A* Test Result.

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6.8. Conducted Emission

The detailed test data see *EFTA25090010-IE-02-R2-ANNEX A* Test Result.

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7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2025-05-06	2026-05-05
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2025-05-06	2026-05-05
Attenuator	HASCO	HA18A-10	0003	-	-
Spectrum Analyzer	KEYSIGHT	N9010A	MY47191109	2025-05-06	2026-05-05
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2025-05-06	2026-05-05
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	2025-05-06	2026-05-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Amplifier	MicroWave	KLNA-1804 0050	220826001	2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

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8. The EUT Appearance

Refer to *EUT Appearance*.

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9. Test Setup Photos

Refer to *Part15C Test Setup.*

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

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