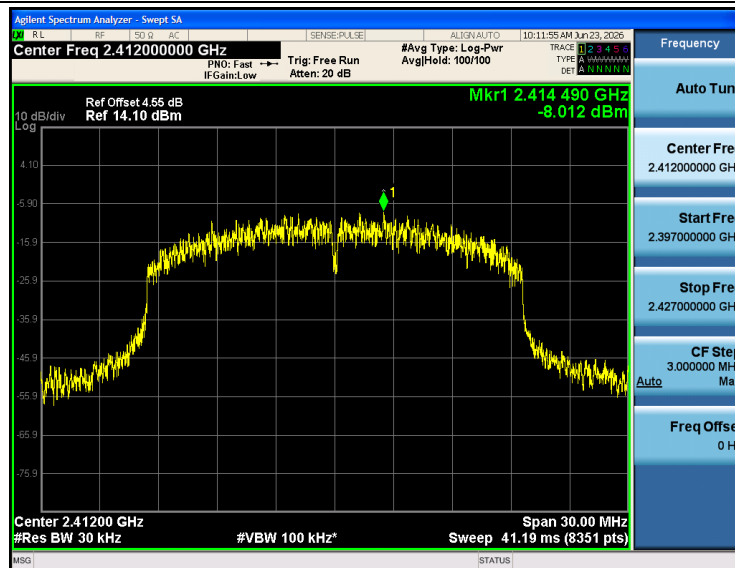
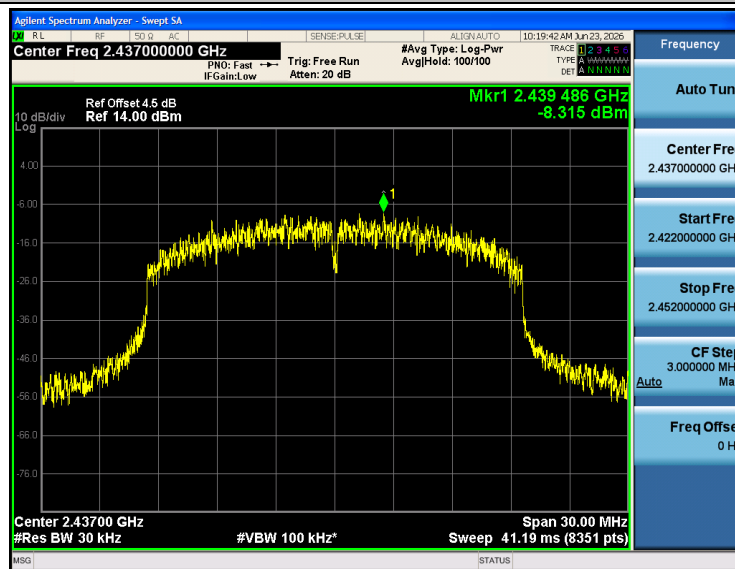
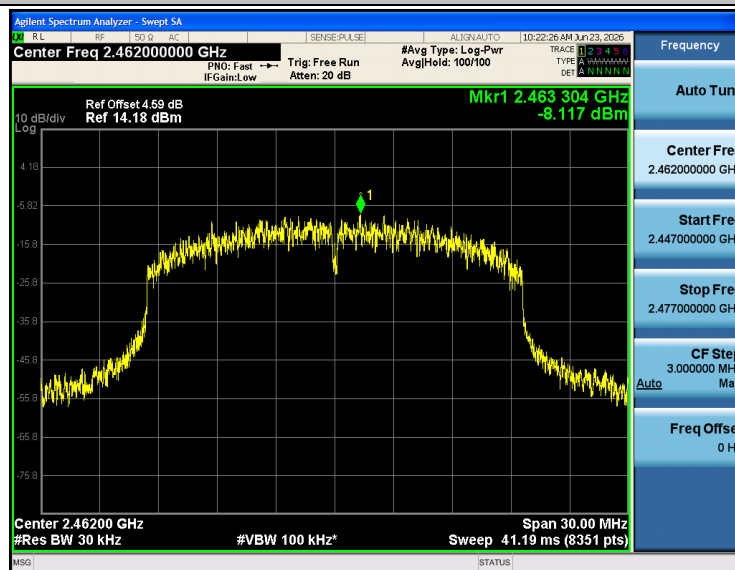




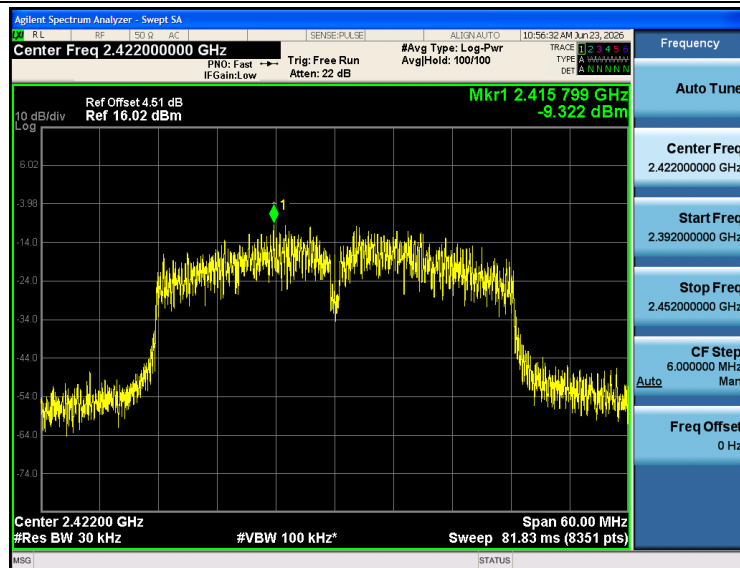
802.11ax(HE20)_2437



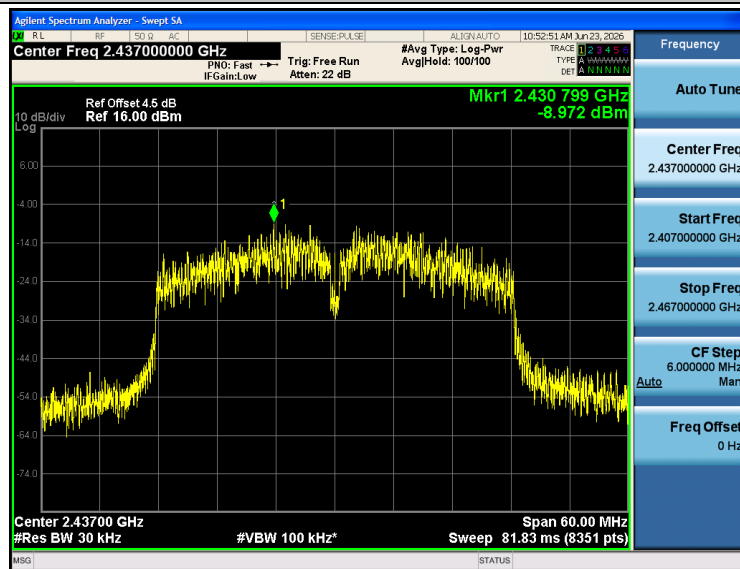
802.11ax(HE20)_2462



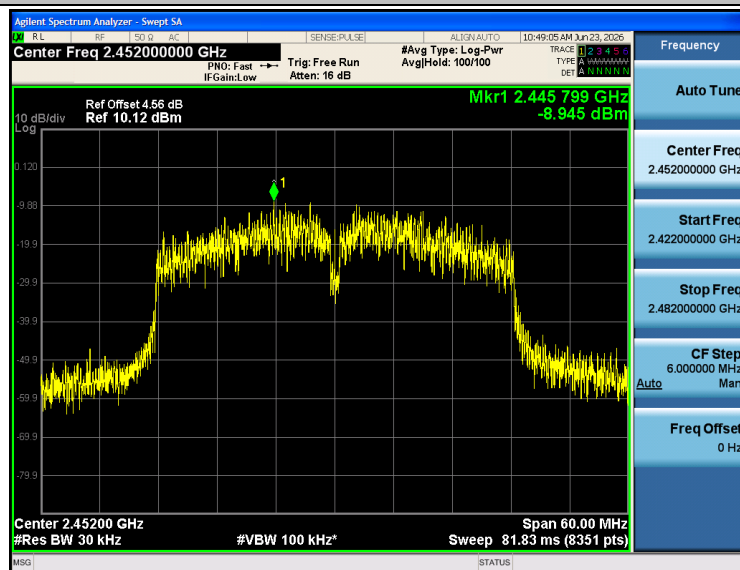
802.11n(HT40)_2422



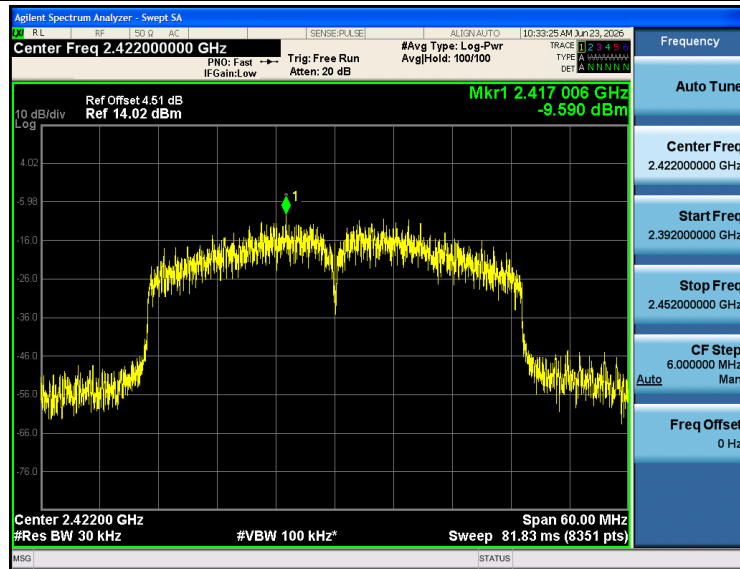
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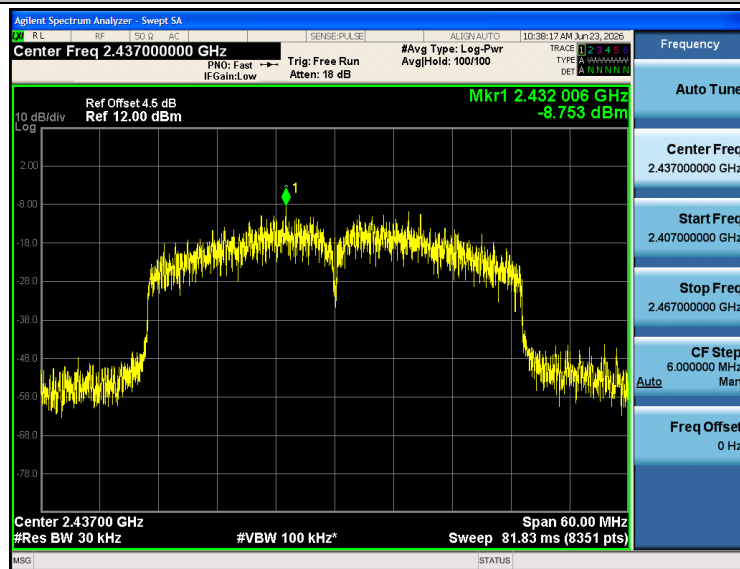
802.11n(HT40)_2452



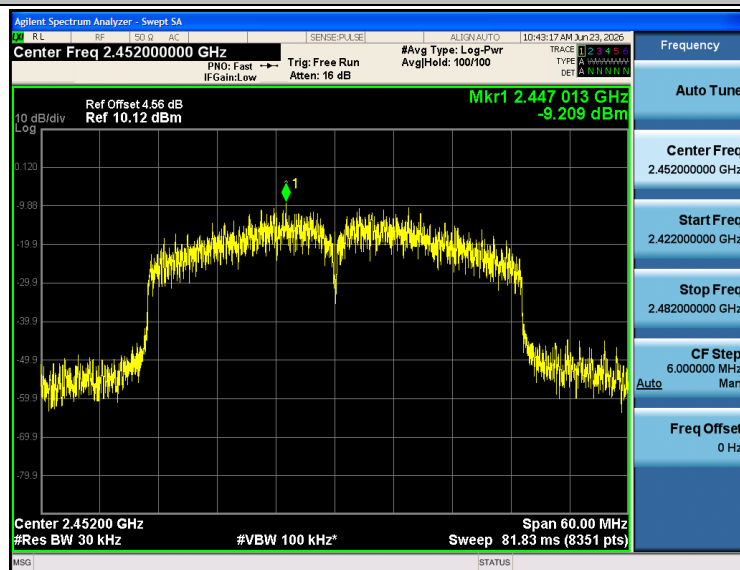
802.11ax(HE40)_2422



802.11ax(HE40)_2437



802.11ax(HE40)_2452



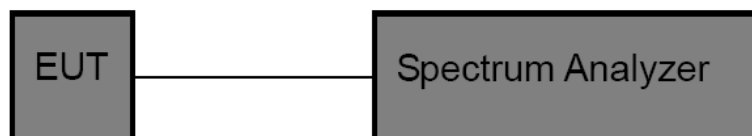


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 0Hz
Set the RBW to 8MHz
Set the VBW to 8MHz
Detector: peak
Sweep time: auto
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

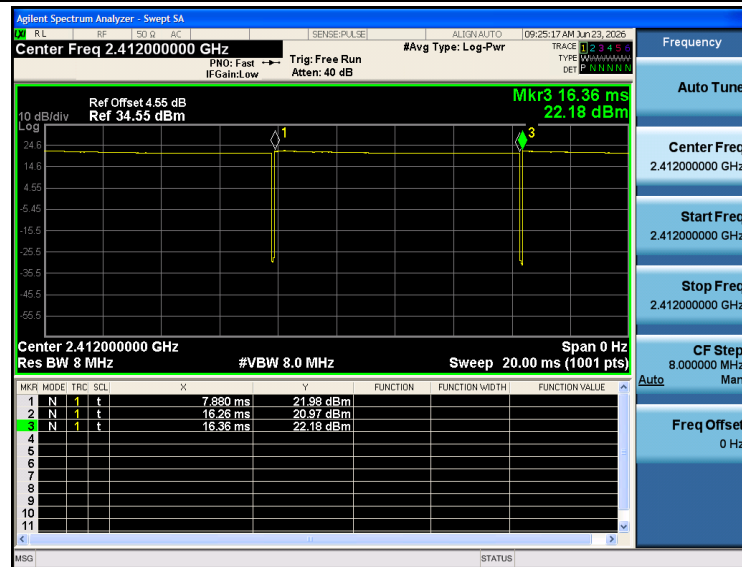
**Test Result**

Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11b	2412	8.38	8.48	98.82	0.05	0.12	1
	2437	8.38	8.46	99.05	0.04	0.12	1
	2462	8.38	8.48	98.82	0.05	0.12	1
802.11g	2412	100	100	100	0	/	1
	2437	100	100	100	0	/	1
	2462	100	100	100	0	/	1
802.11n(HT20)	2412	100	100	100	0	/	1
	2437	100	100	100	0	/	1
	2462	100	100	100	0	/	1
802.11ax(HE20)	2412	100	100	100	0	/	1
	2437	100	100	100	0	/	1
	2462	100	100	100	0	/	1
802.11n(HT40)	2422	100	100	100	0	/	1
	2437	100	100	100	0	/	1
	2452	100	100	100	0	/	1
802.11ax(HE40)	2422	100	100	100	0	/	1
	2437	100	100	100	0	/	1
	2452	100	100	100	0	/	1

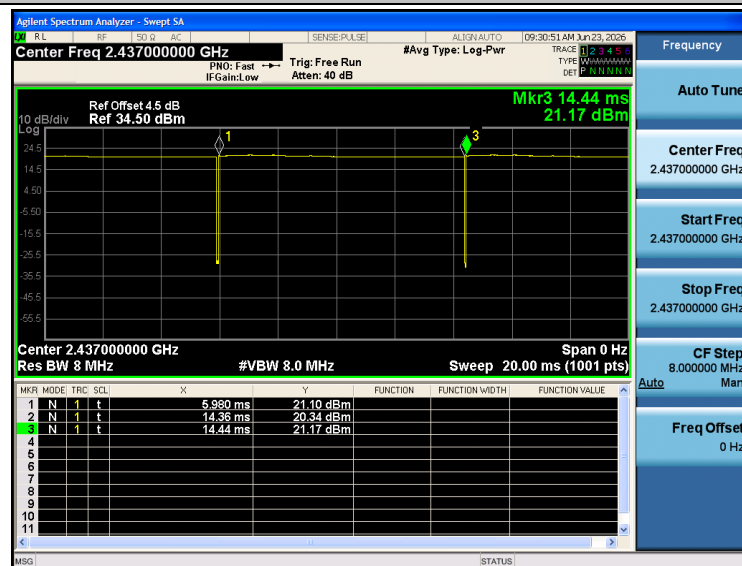
Note: Duty Cycle Factor = $10 \cdot \log_{10}(1/\text{Duty Cycle})$



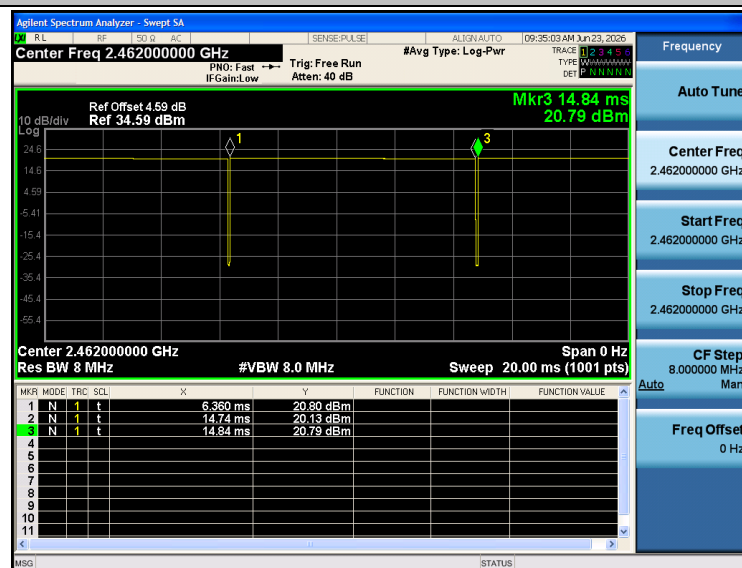
802.11b_2412



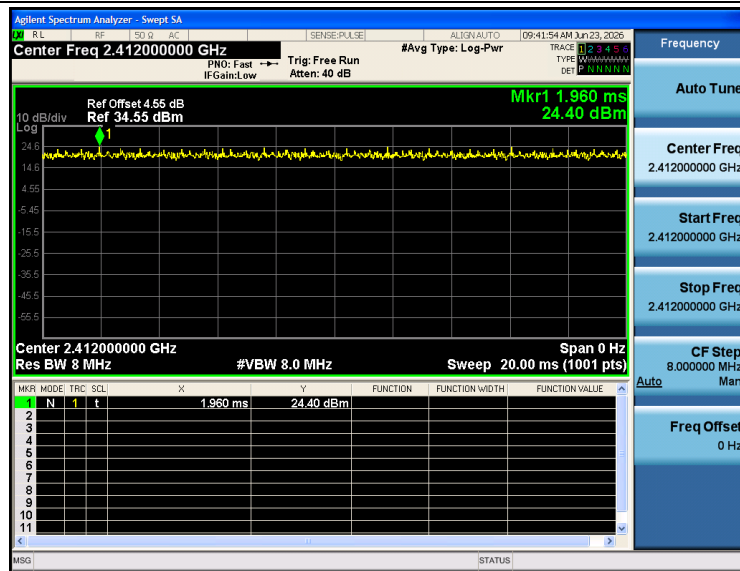
802.11b_2437



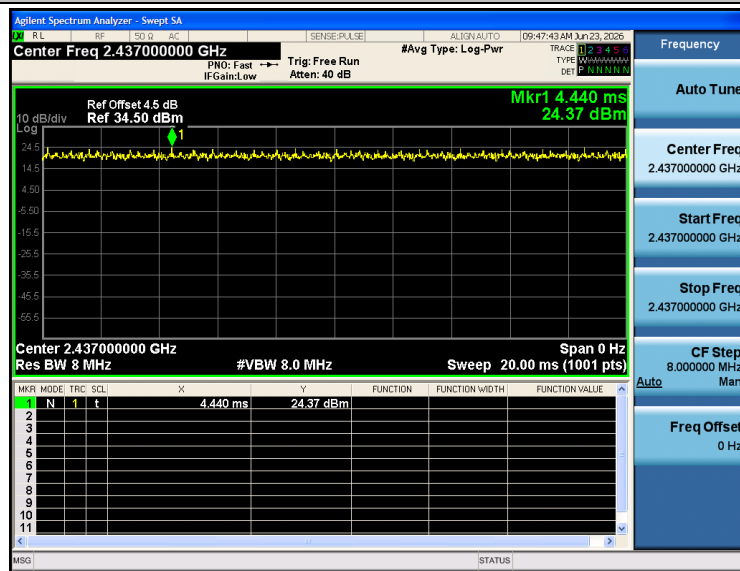
802.11b_2462



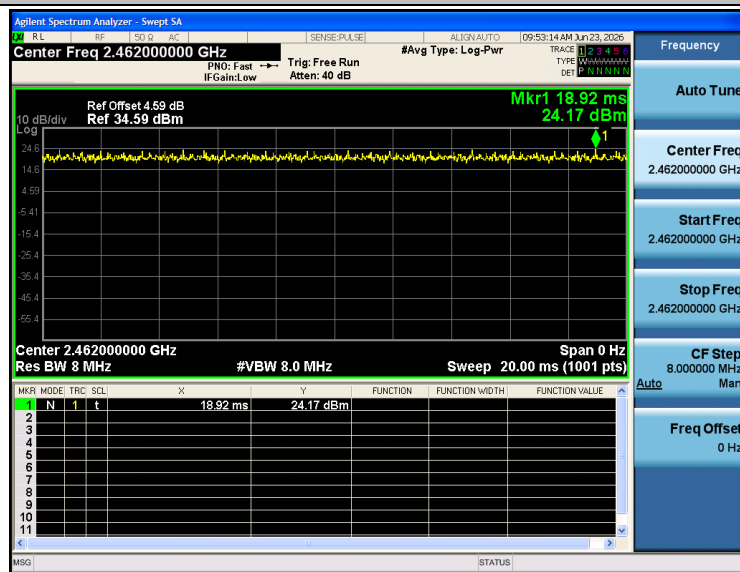
802.11g_2412



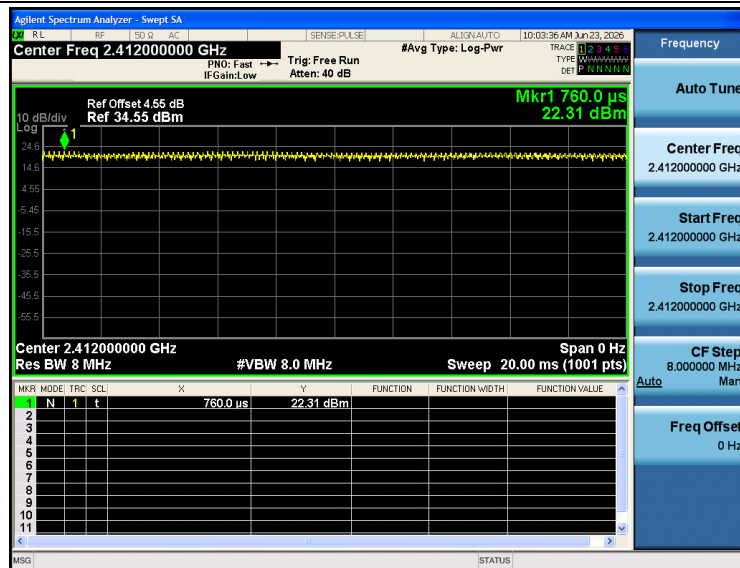
802.11g_2437



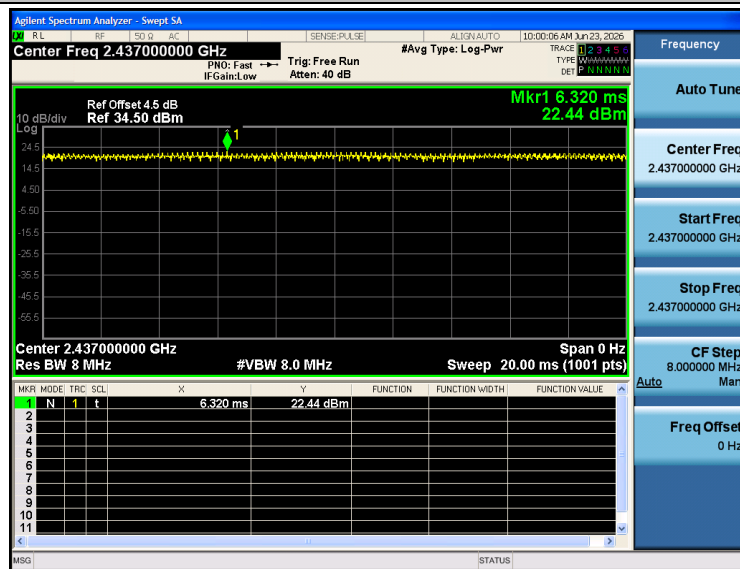
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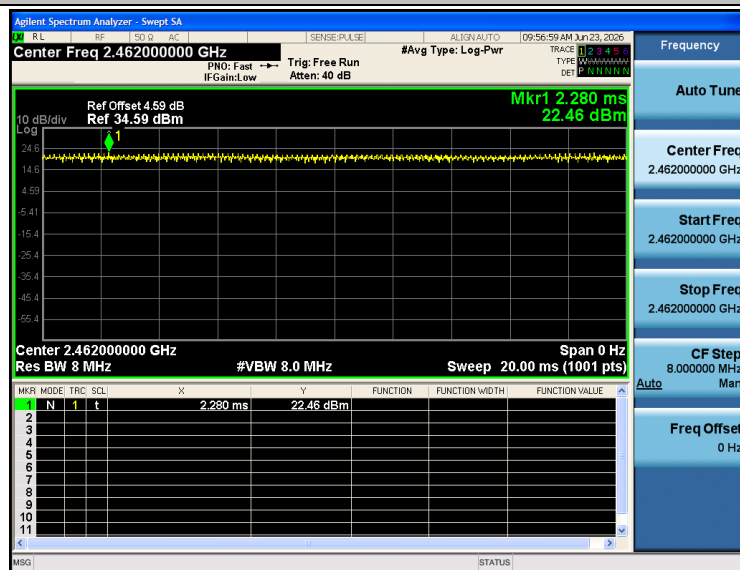
802.11n(HT20)_2412



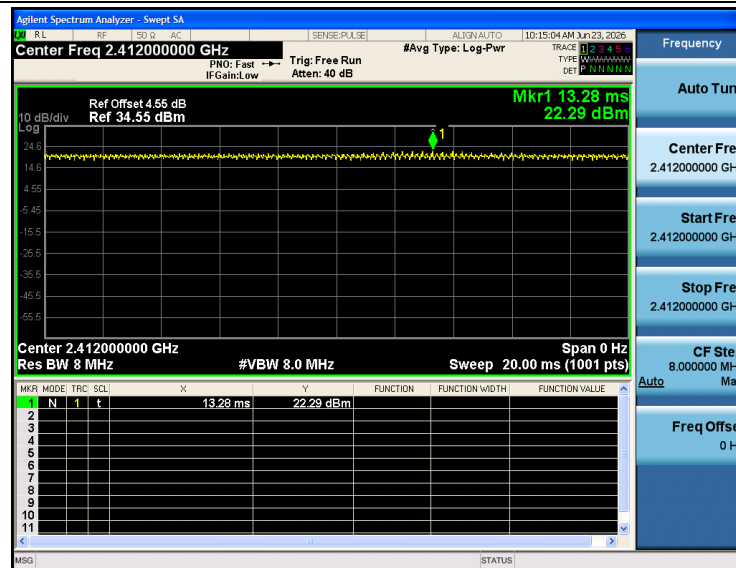
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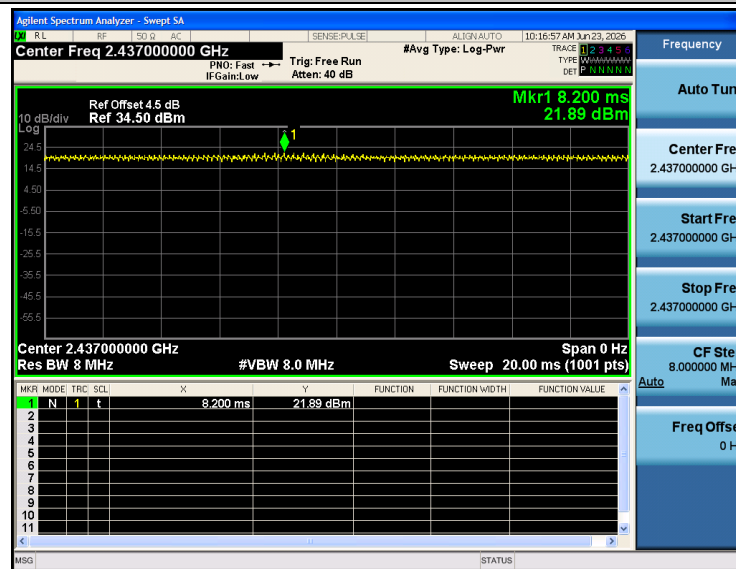
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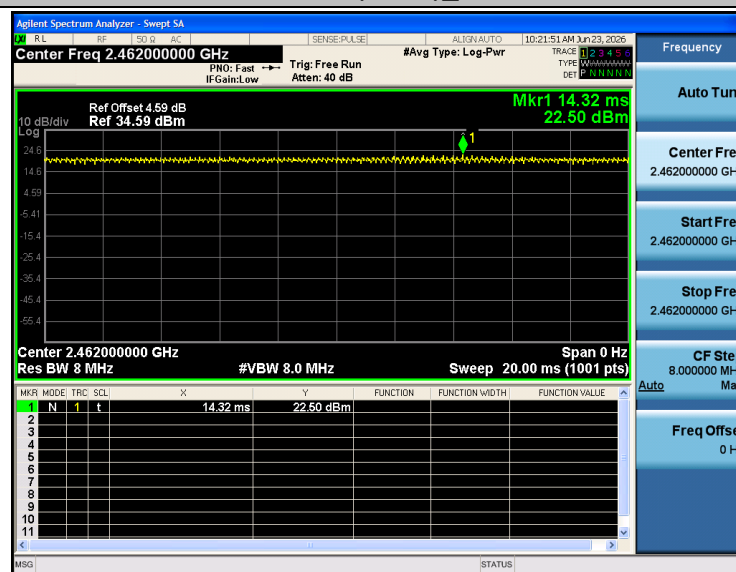
802.11ax(HE20)_2412



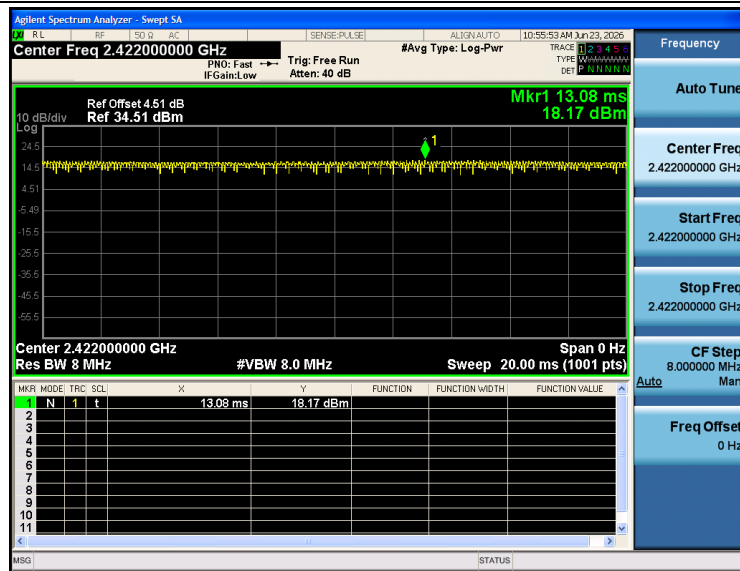
802.11ax(HE20)_2437



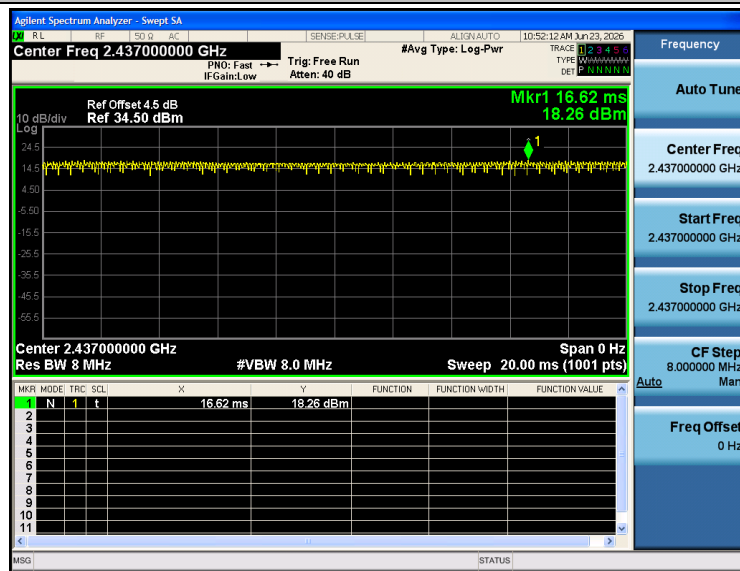
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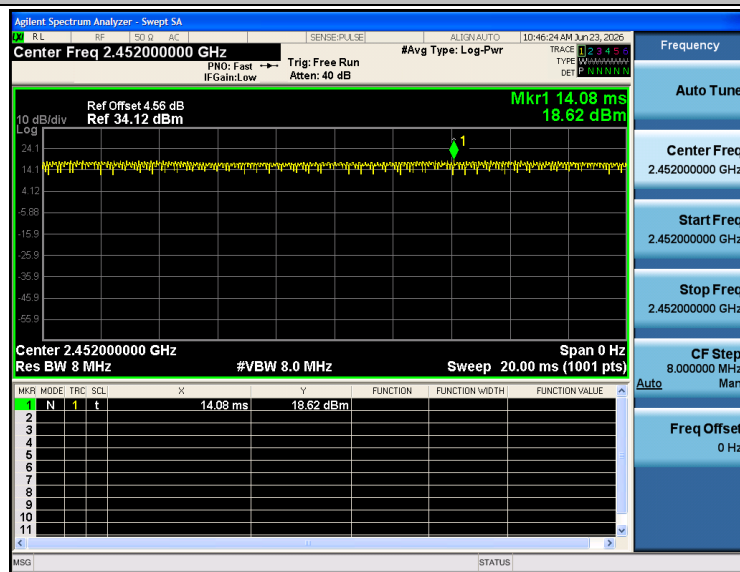
802.11n(HT40)_2422



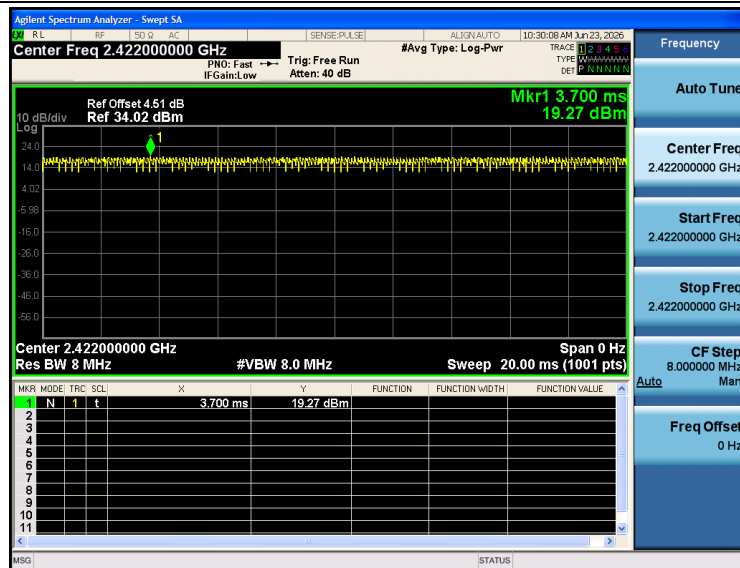
802.11n(HT40)_2437



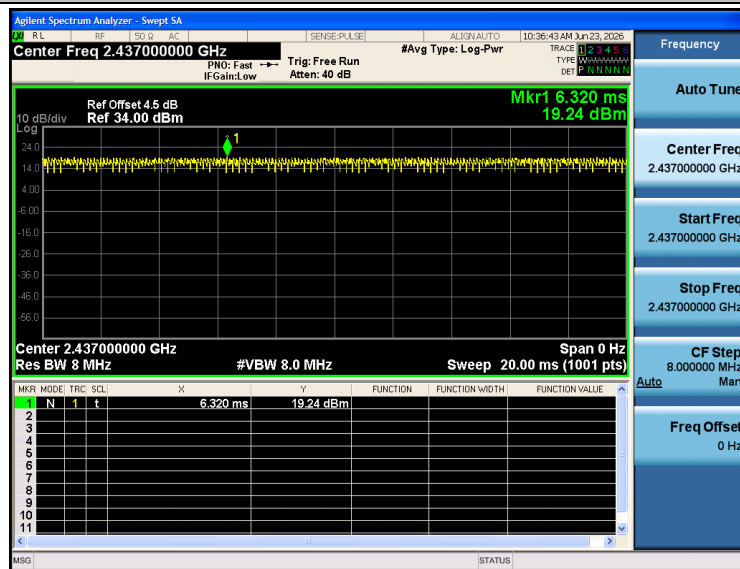
802.11n(HT40)_2452



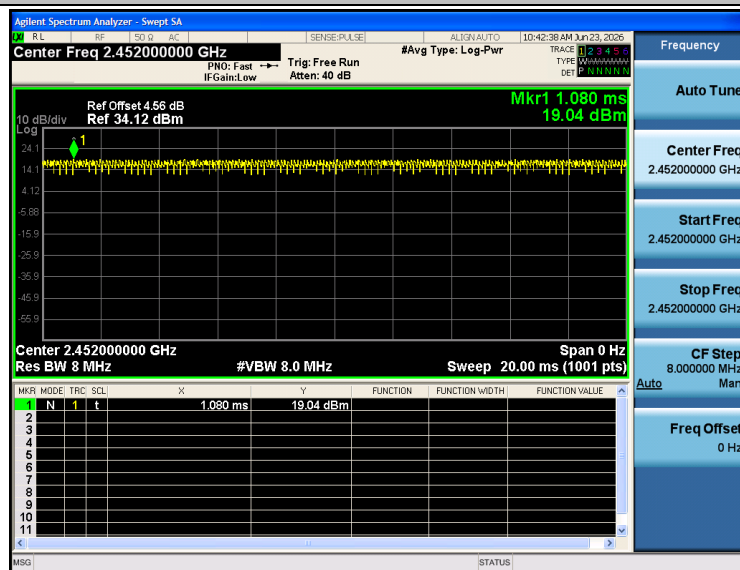
802.11ax(HE40)_2422



802.11ax(HE40)_2437



802.11ax(HE40)_2452





3.9. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

According to RSS-GEN Issue 5, section 6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotopically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END*****