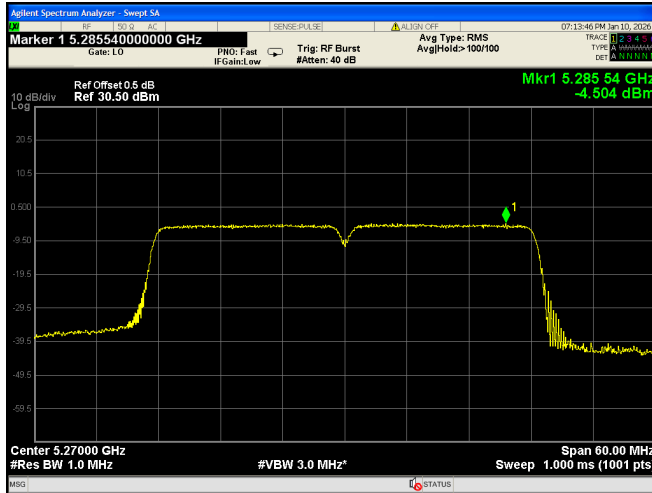
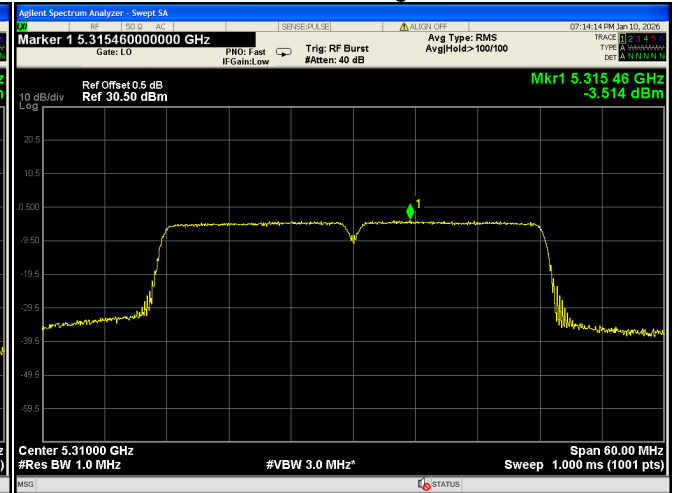


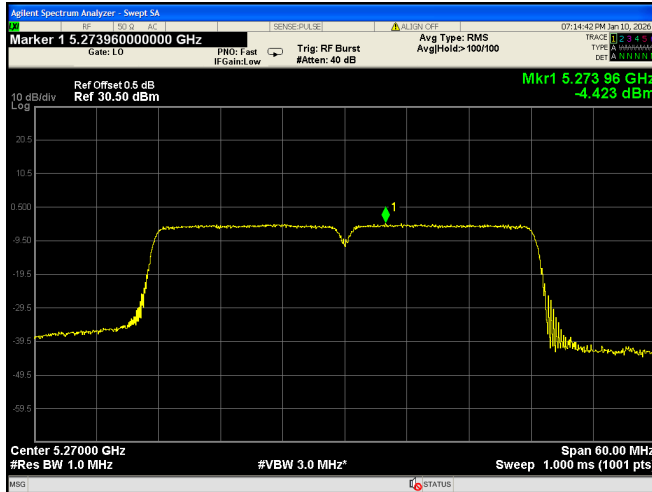
802.11ac VHT40 Low channel



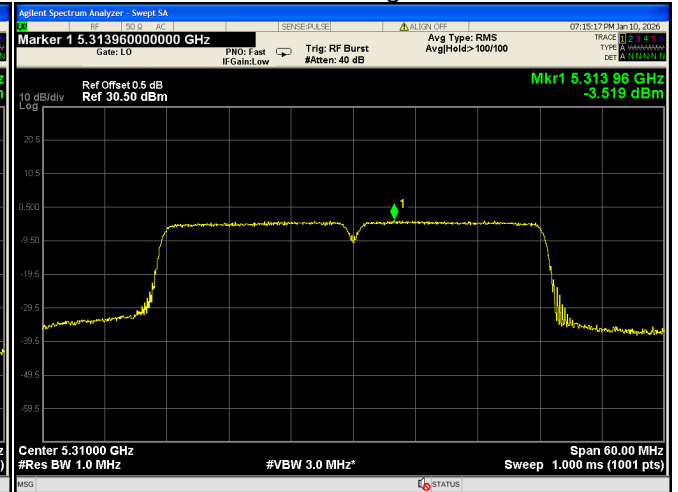
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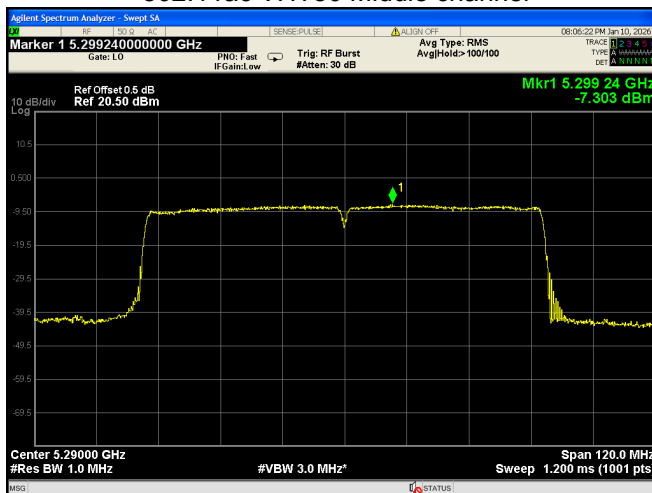
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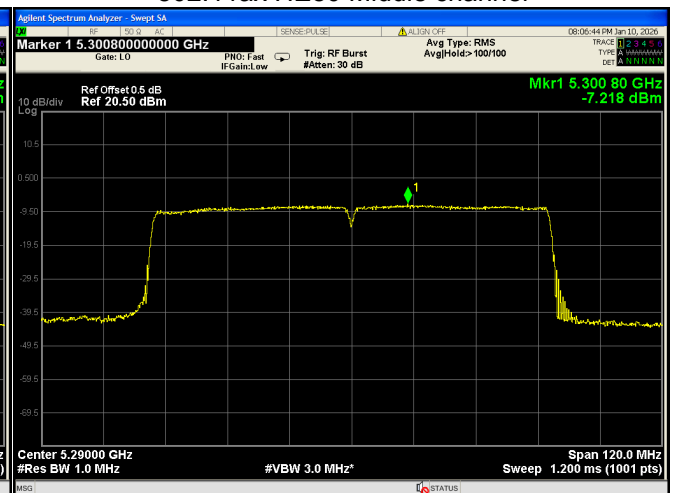
802.11ax HE40 High channel



802.11ac VHT80 Middle channel

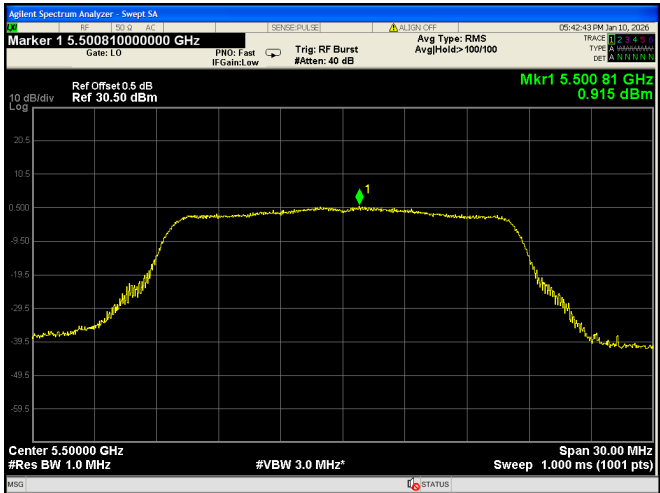


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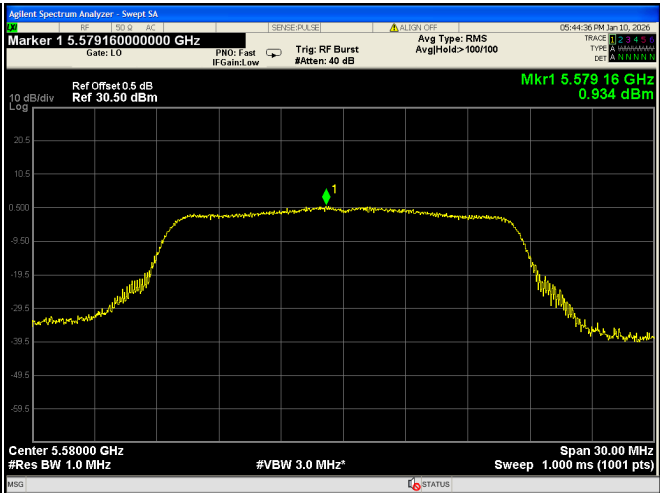


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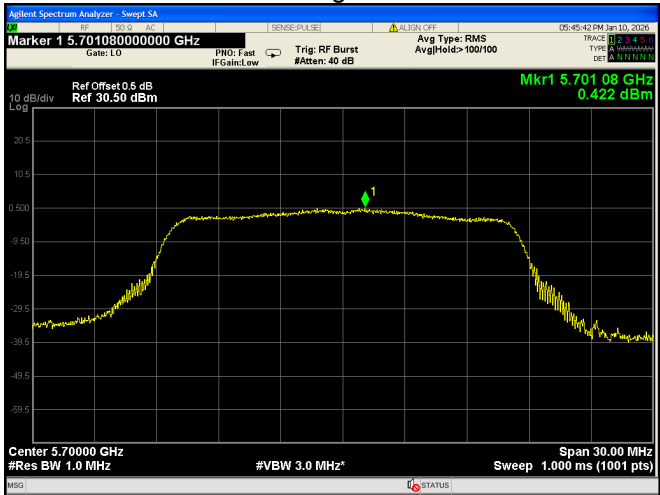
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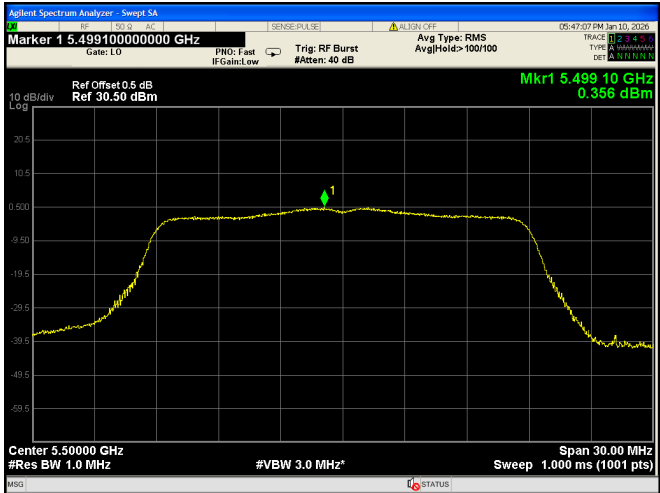
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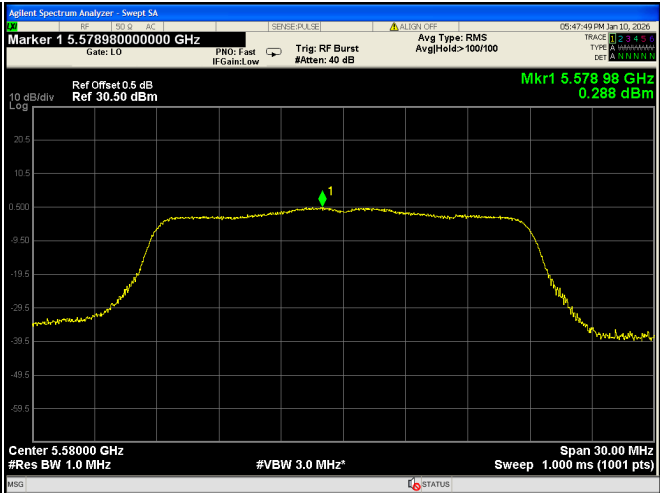
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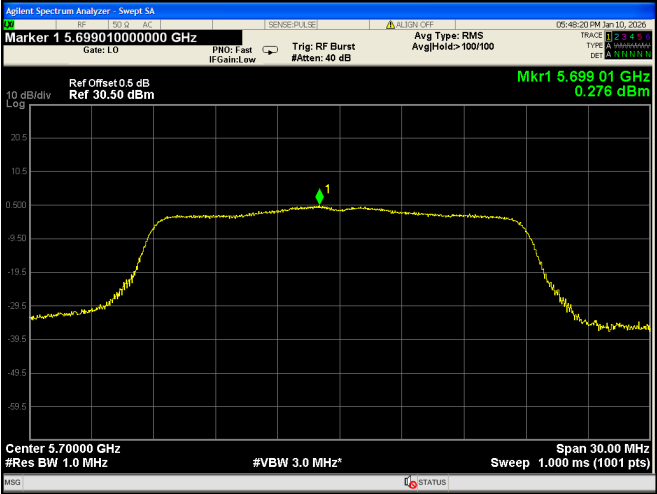
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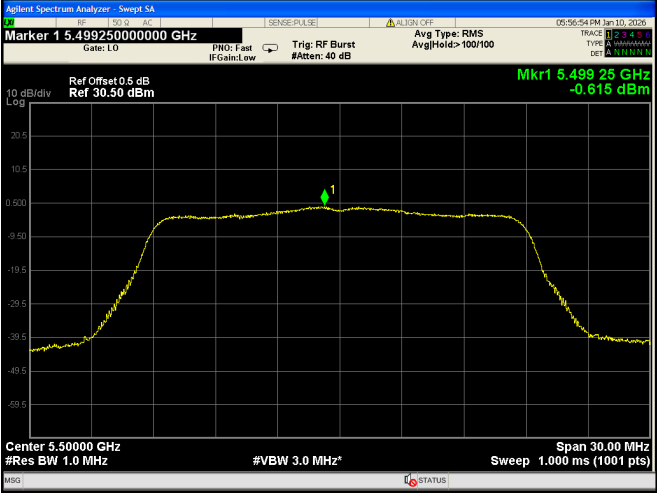
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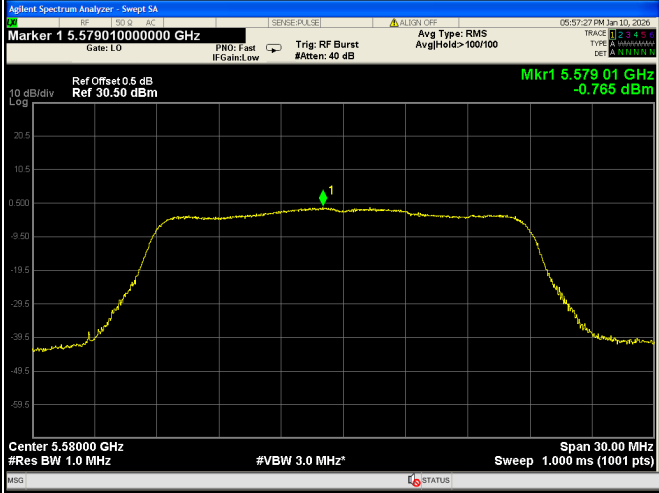
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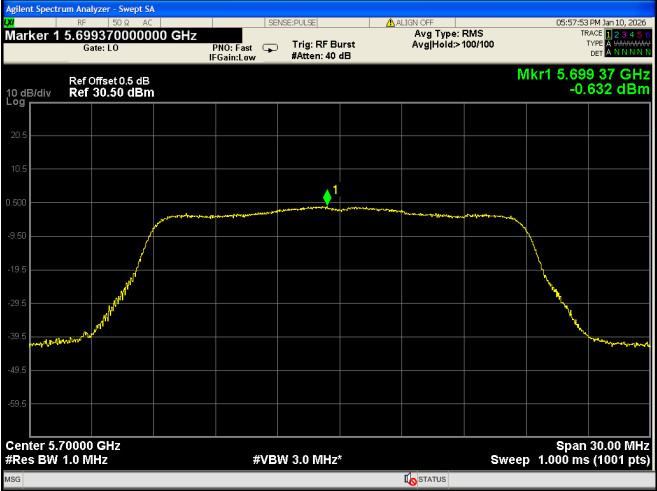
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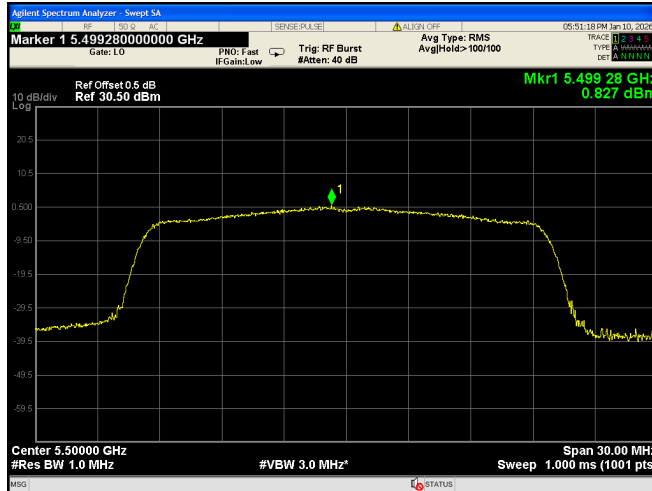
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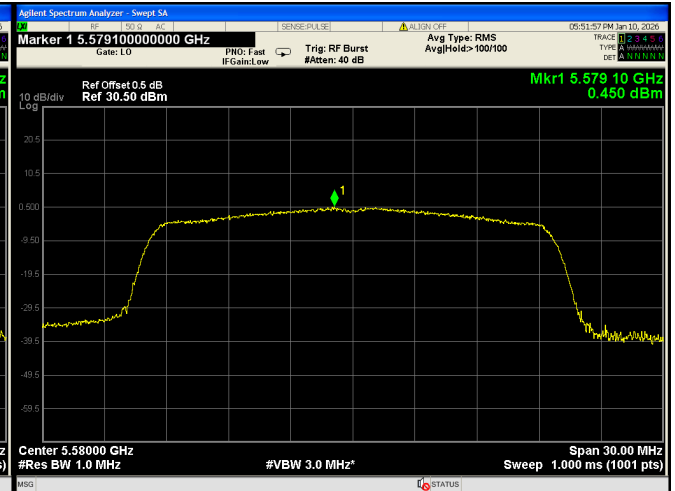
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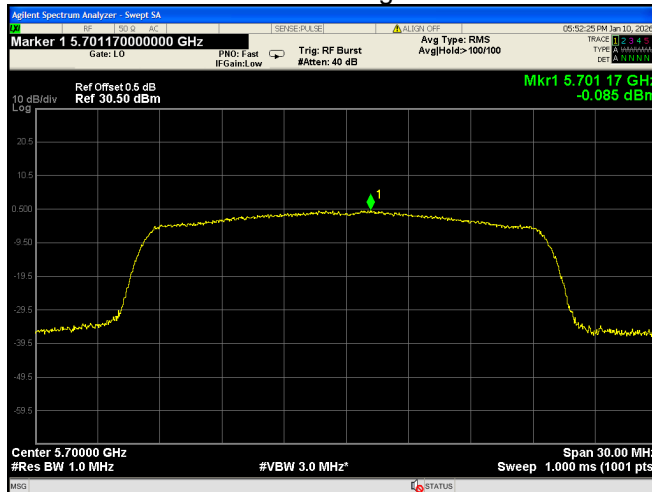
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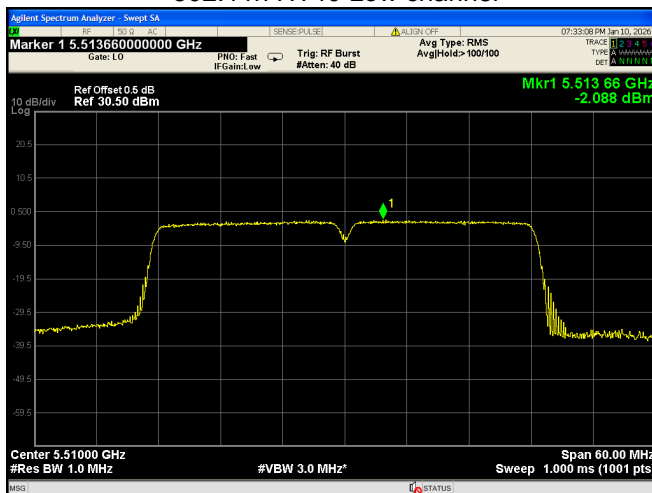
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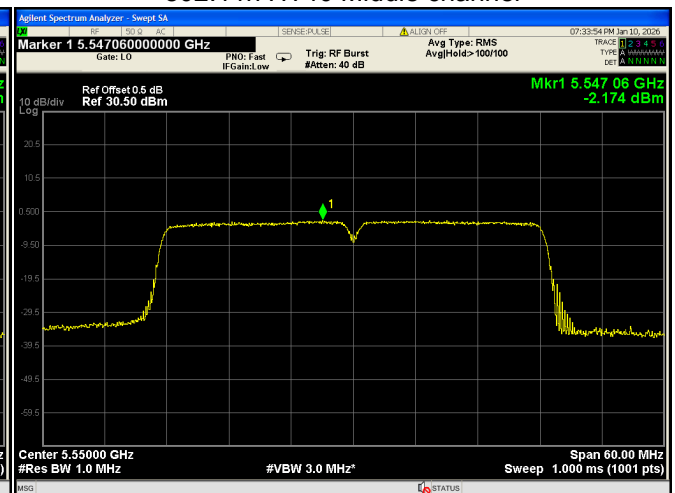
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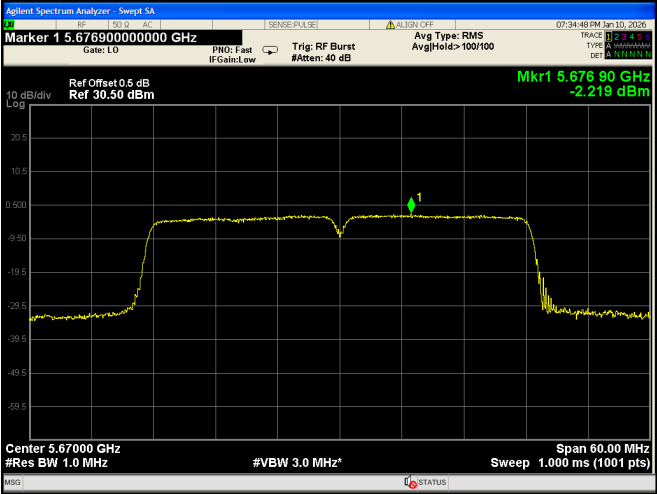
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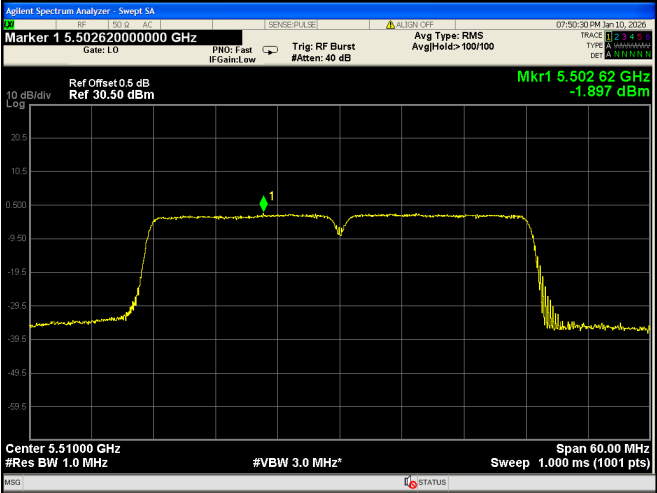
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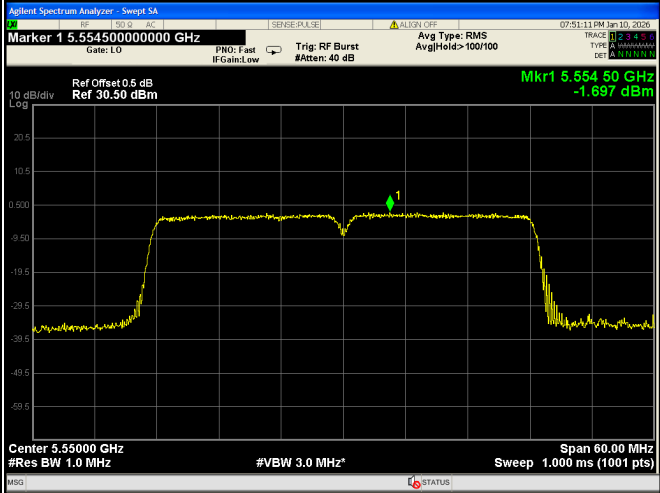
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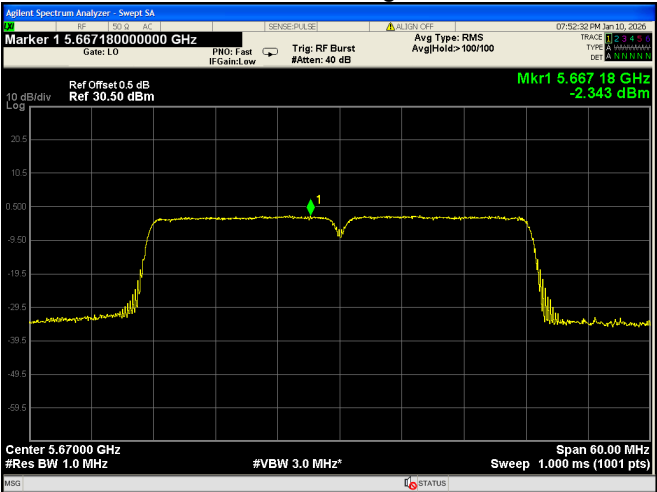
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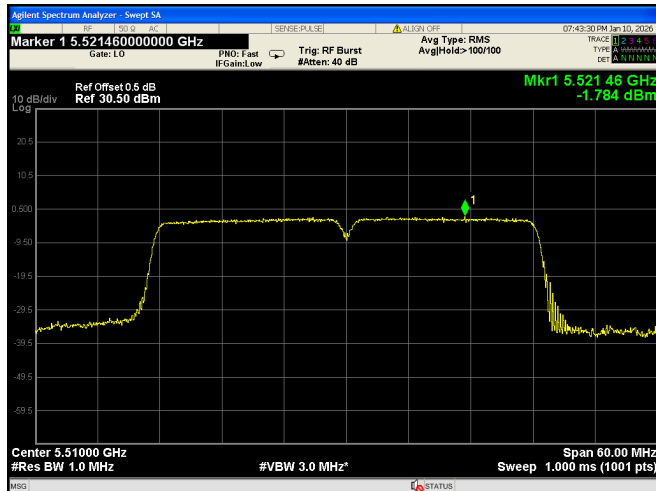
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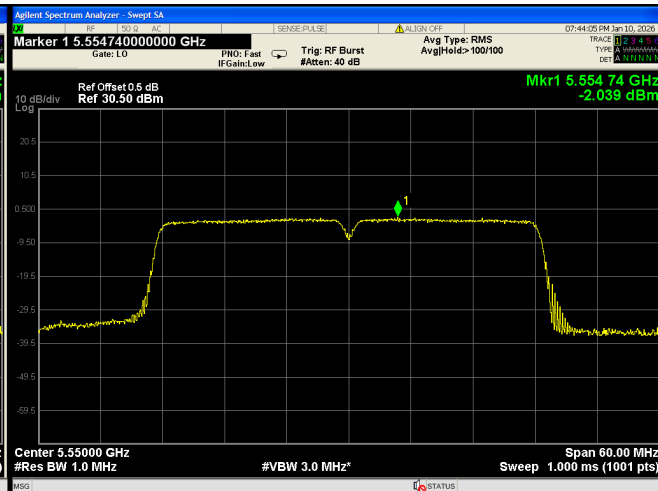
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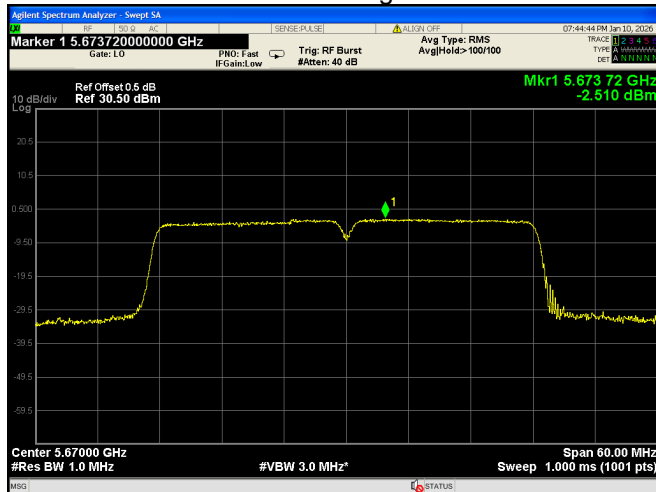
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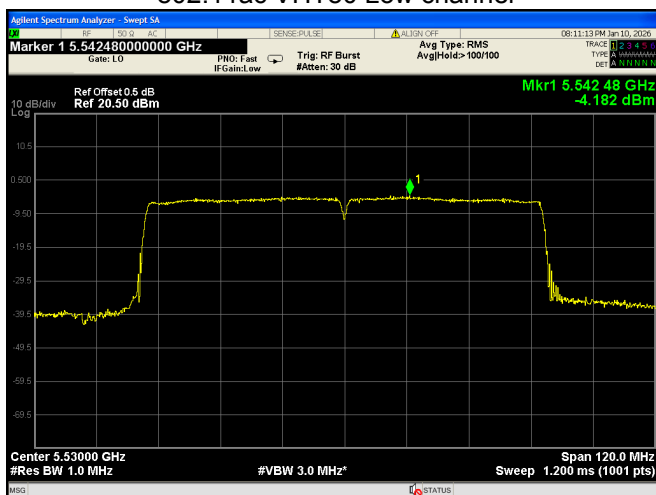
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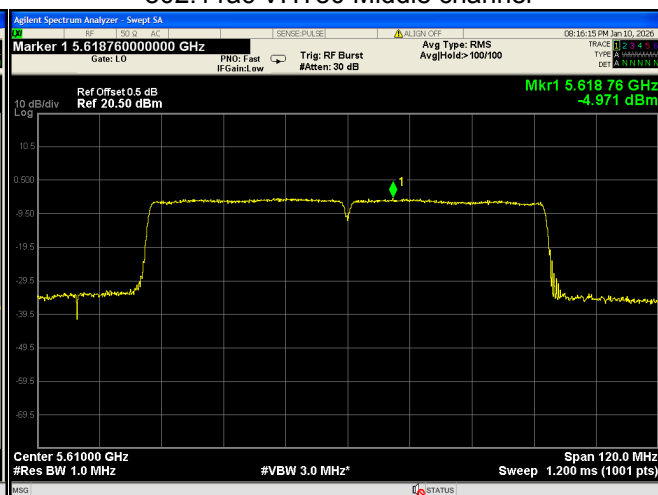
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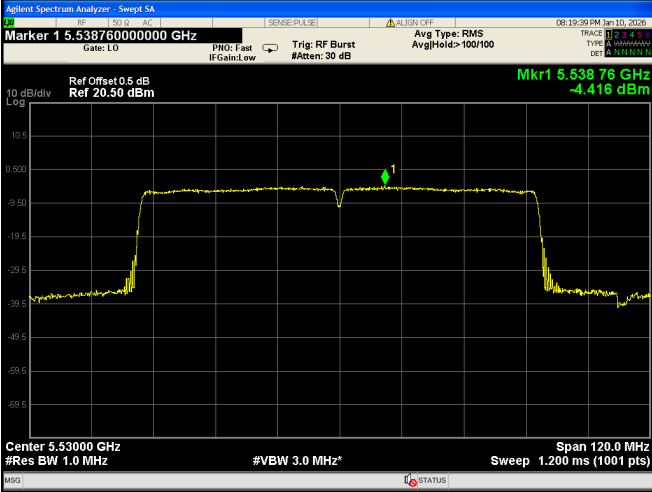
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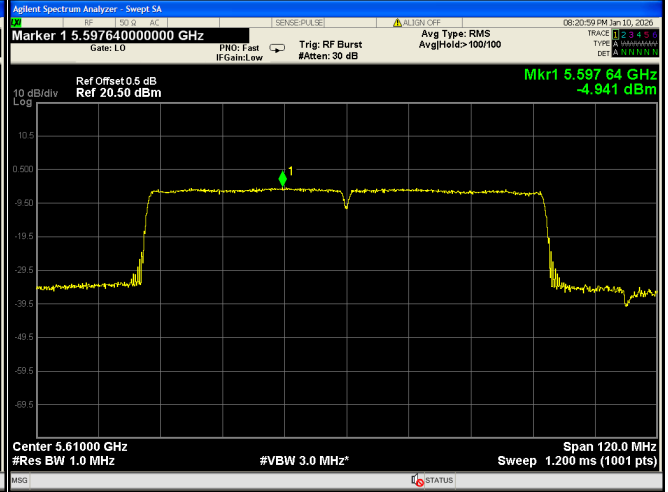
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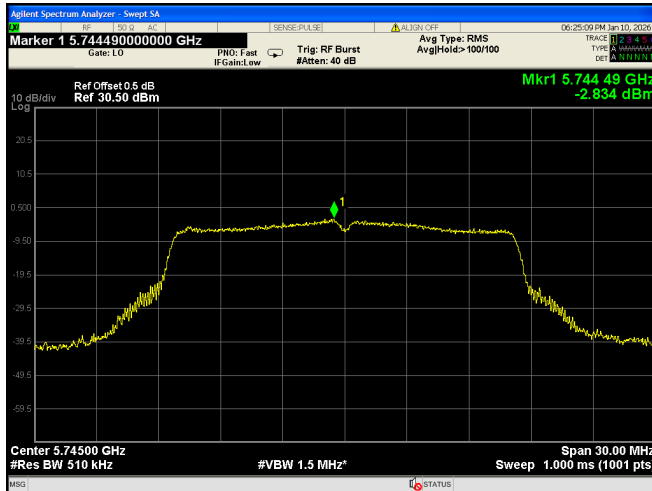


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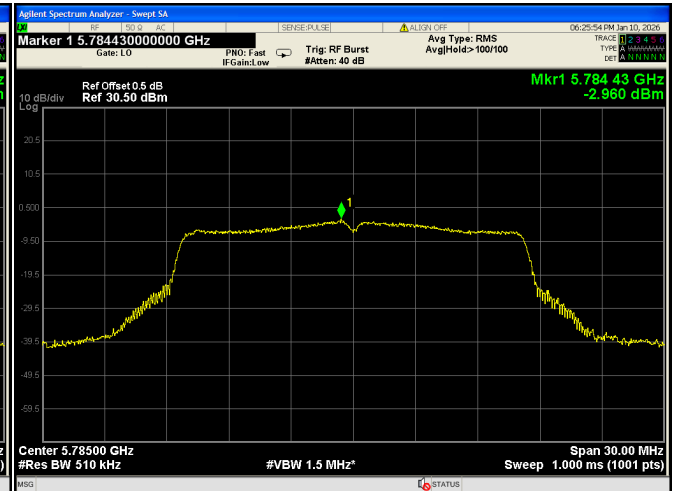


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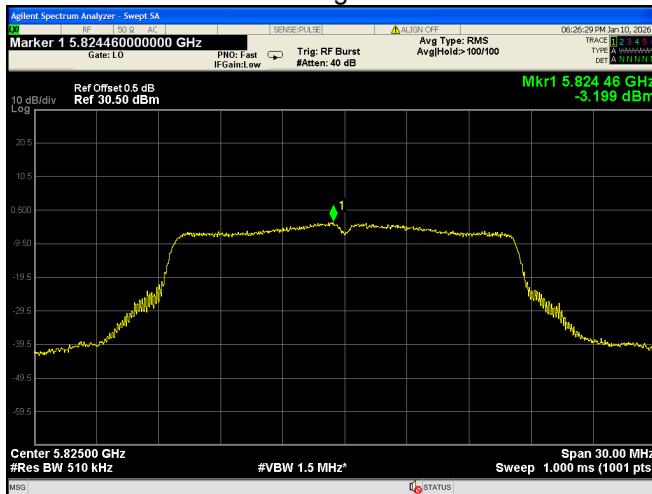
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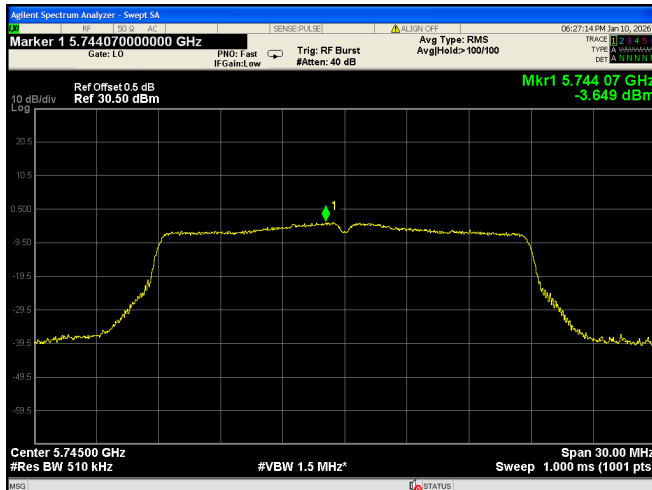
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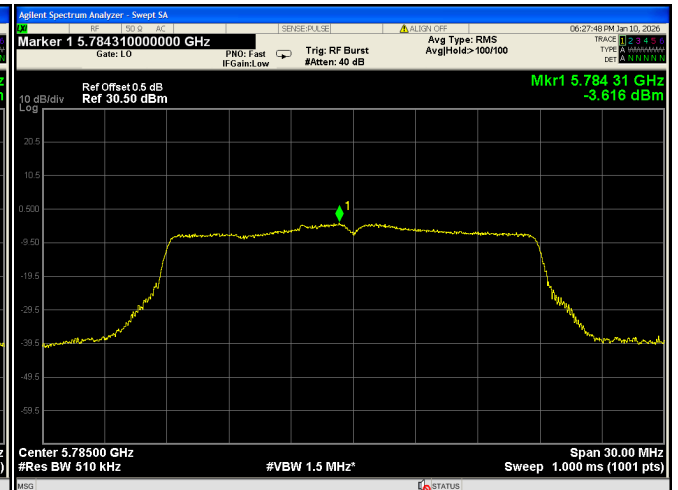
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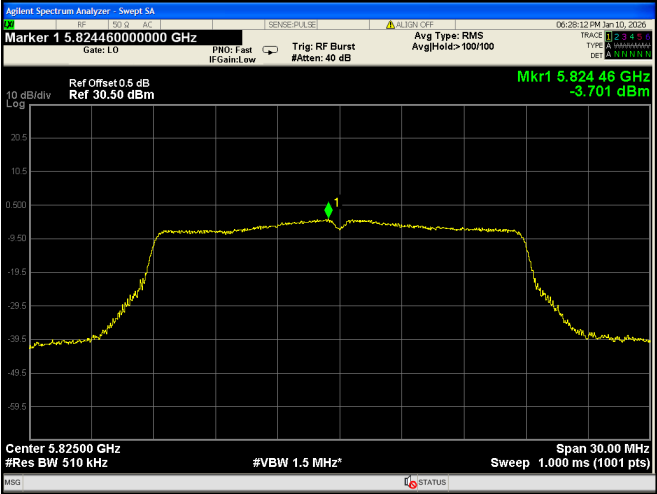
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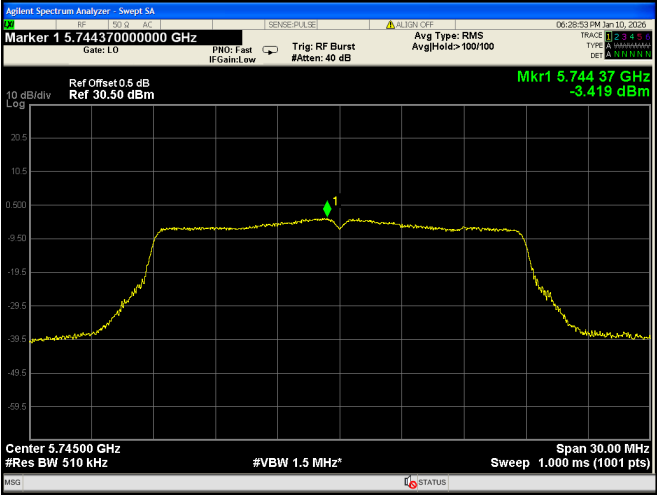
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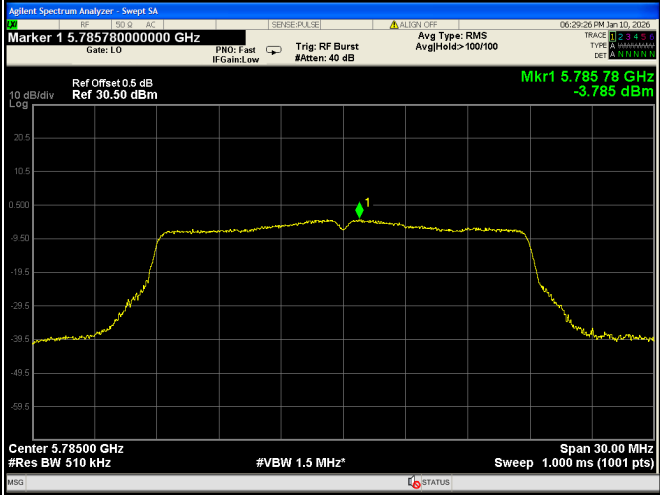
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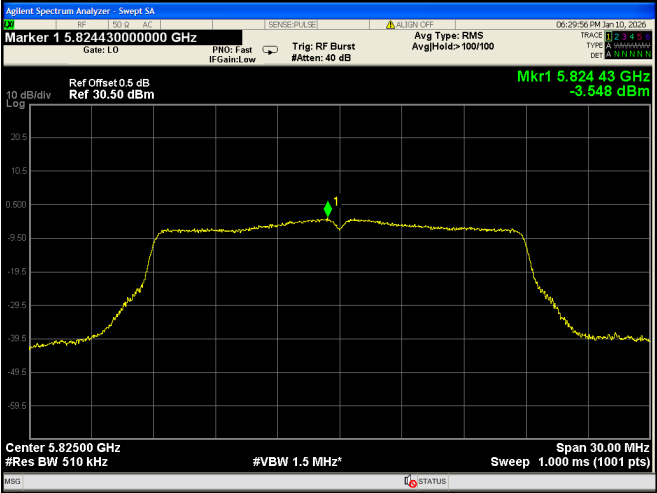
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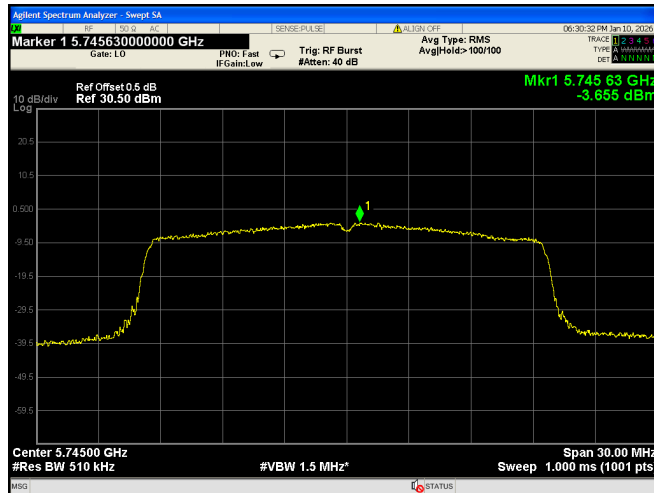
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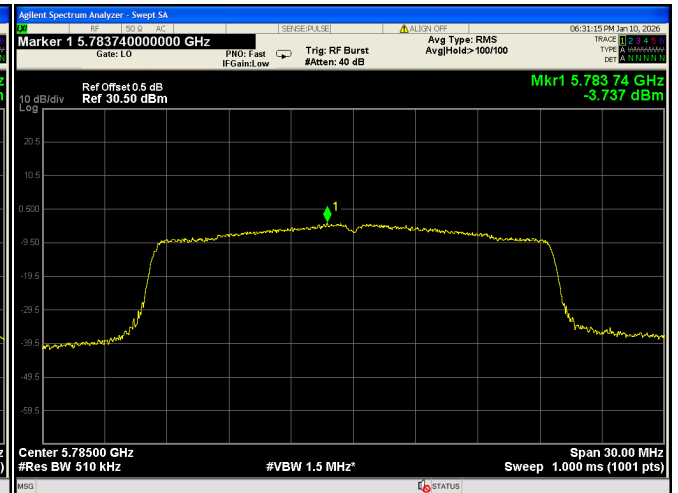
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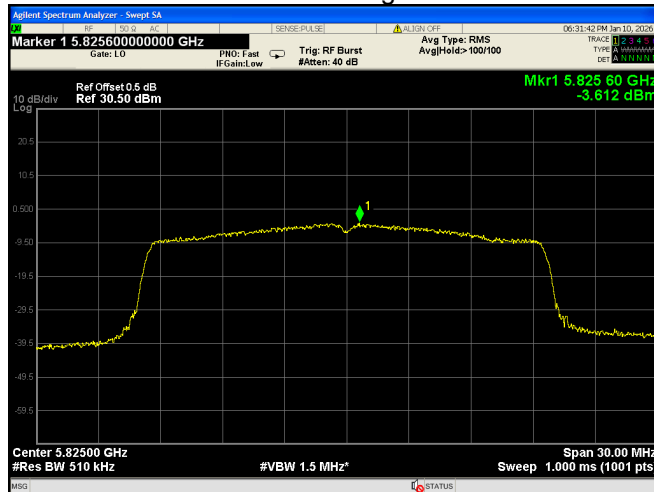
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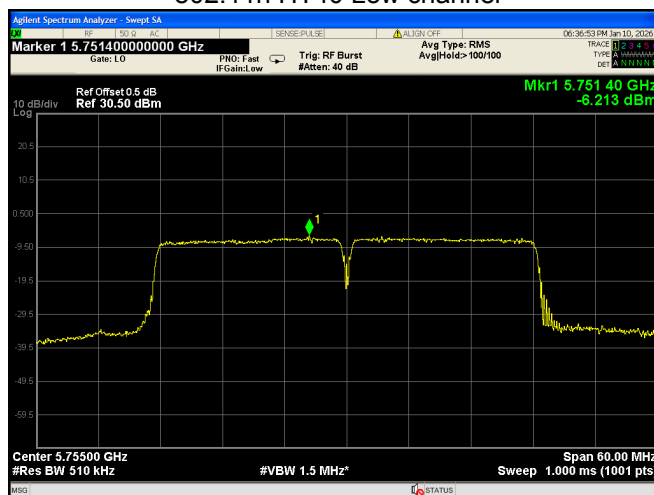
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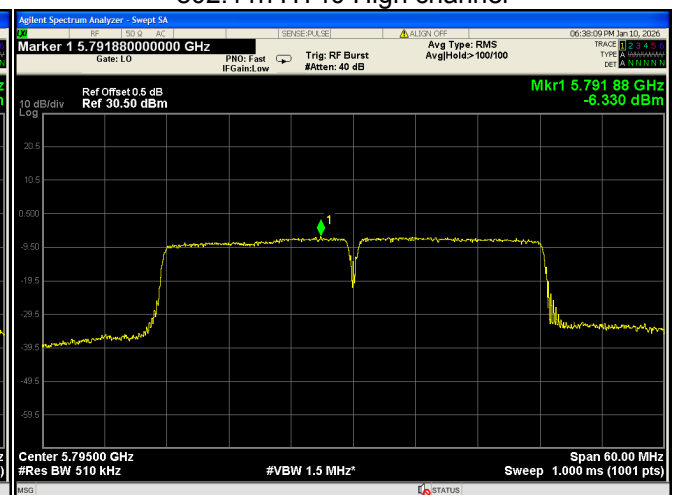
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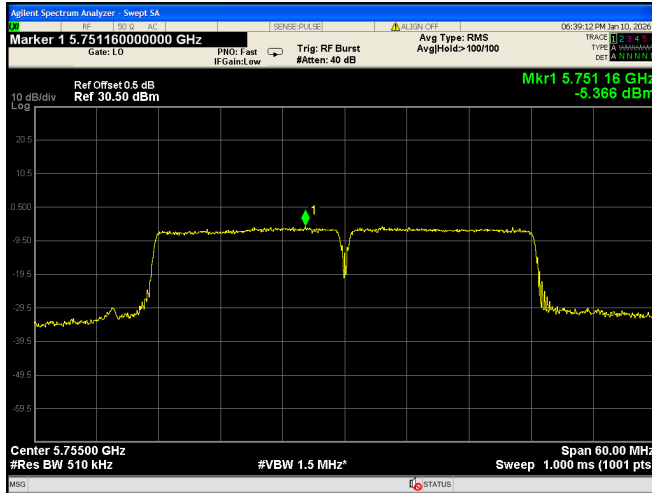
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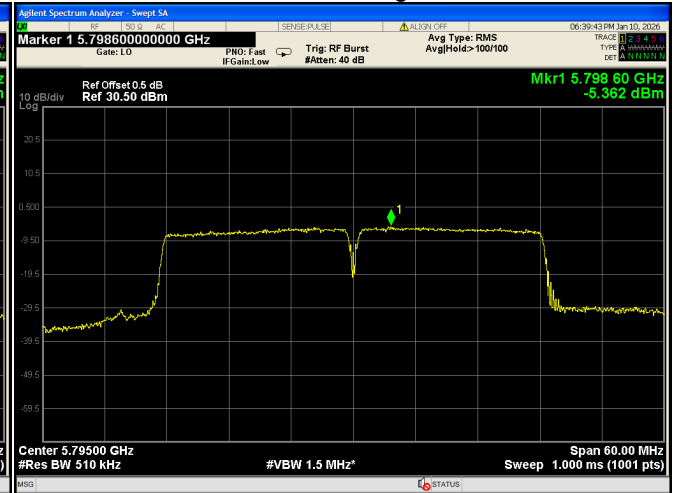
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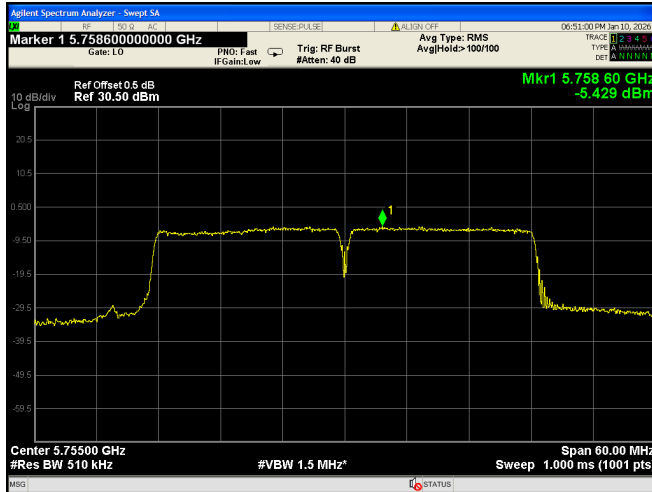
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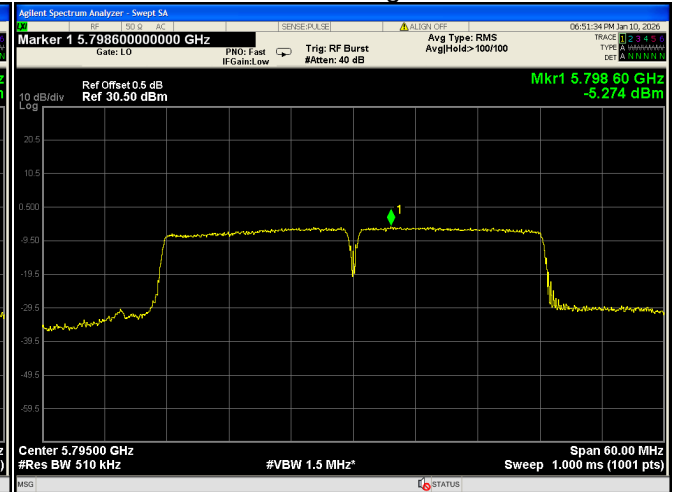
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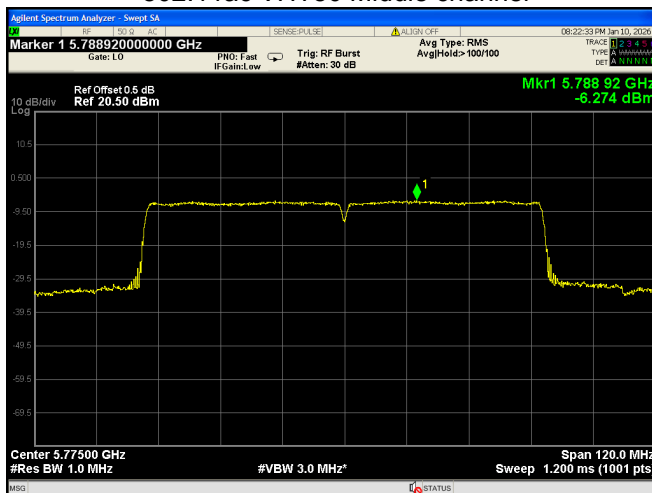
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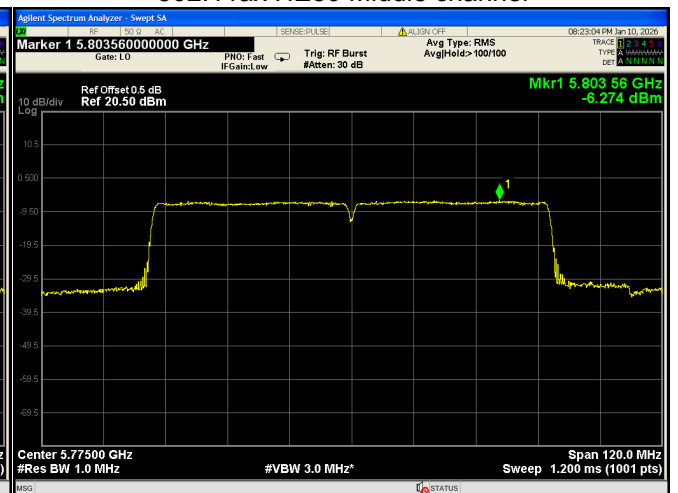
802.11ax HE40 High channel



802.11ac VHT80 Middle channel

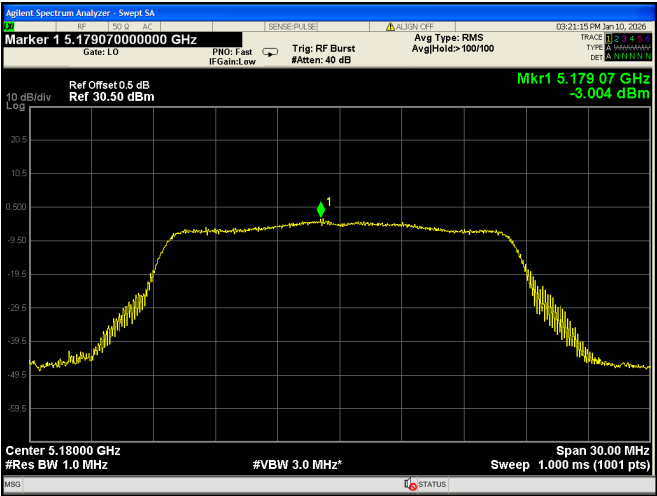


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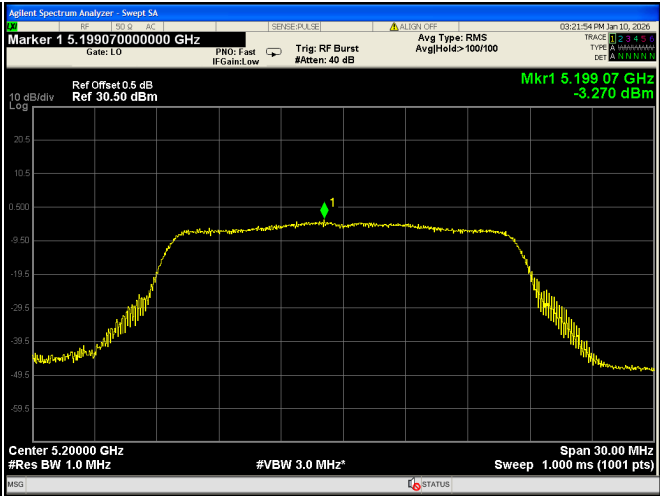


Ant. 2
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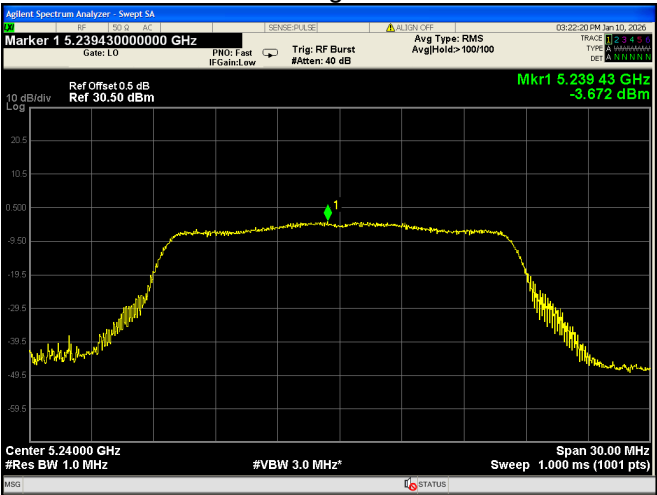
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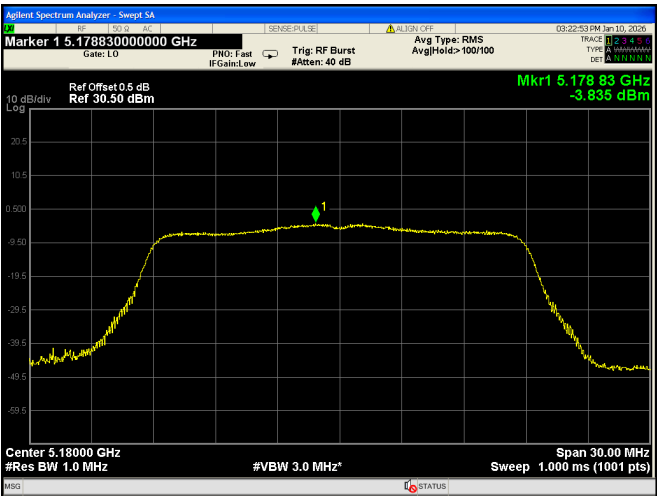
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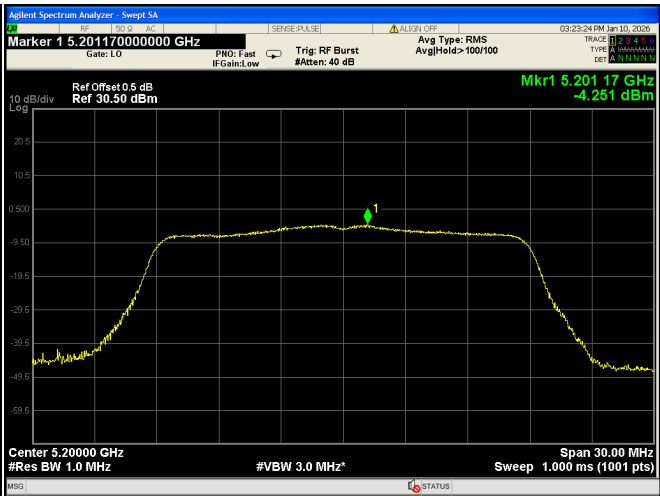
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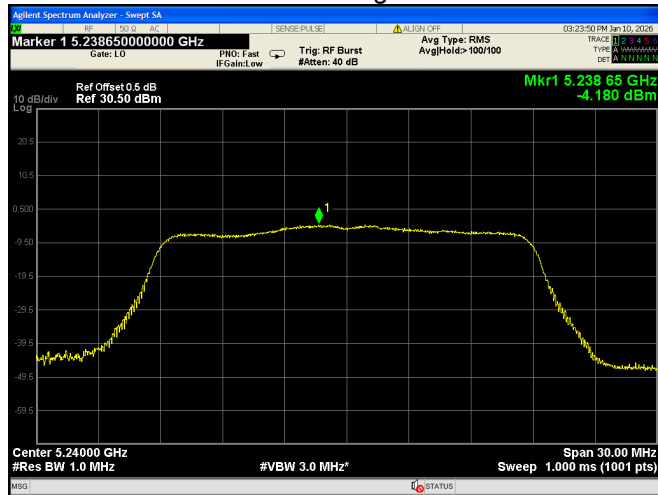
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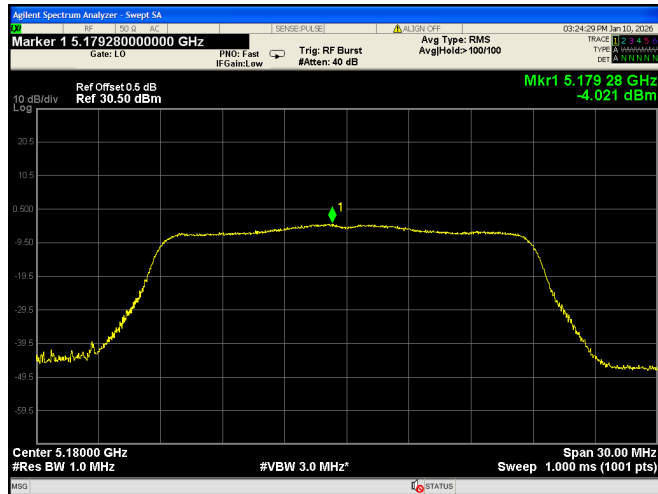
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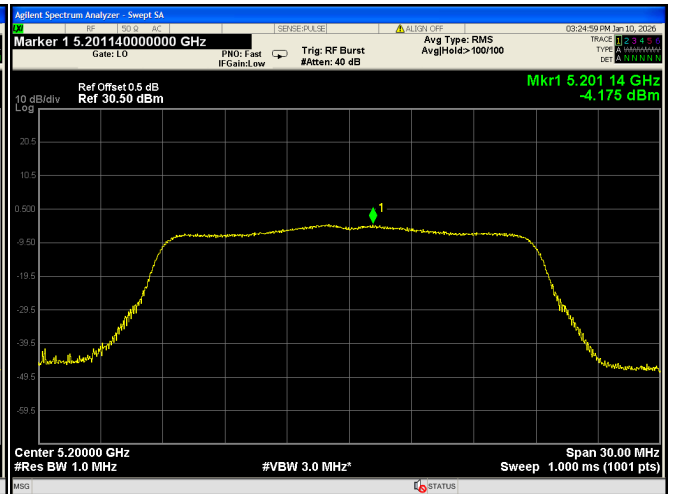
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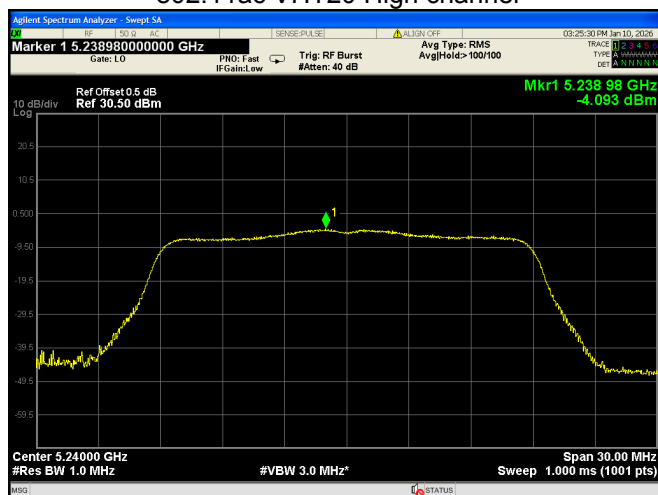
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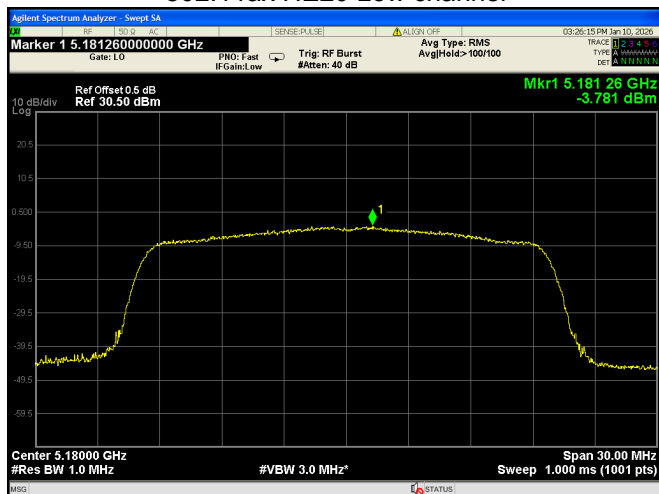
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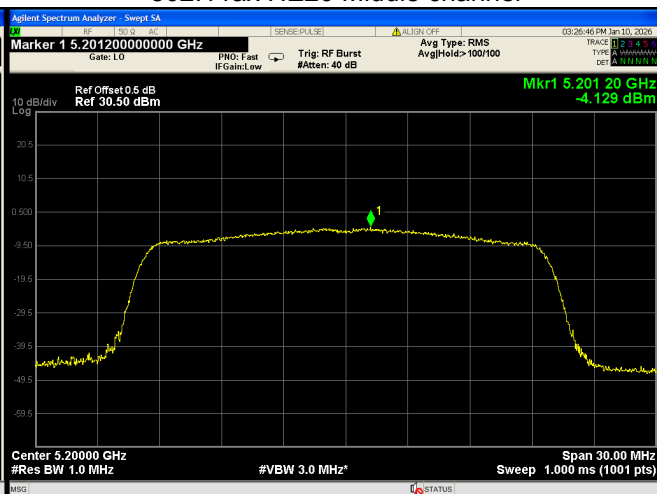
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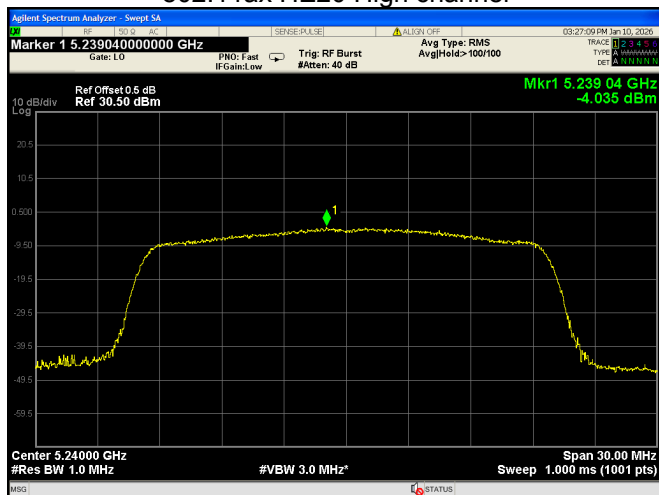
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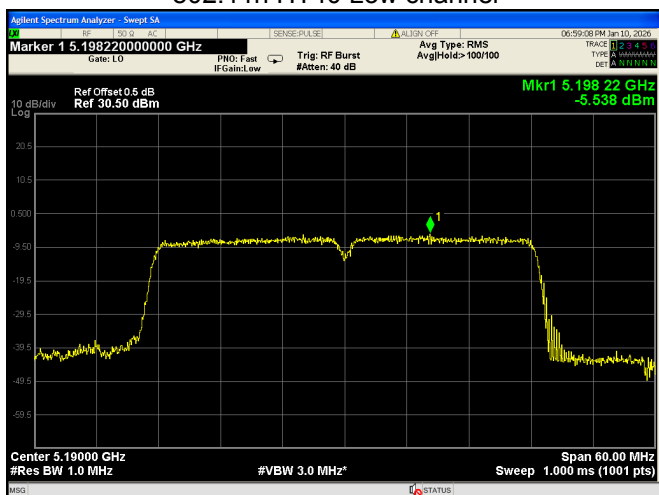
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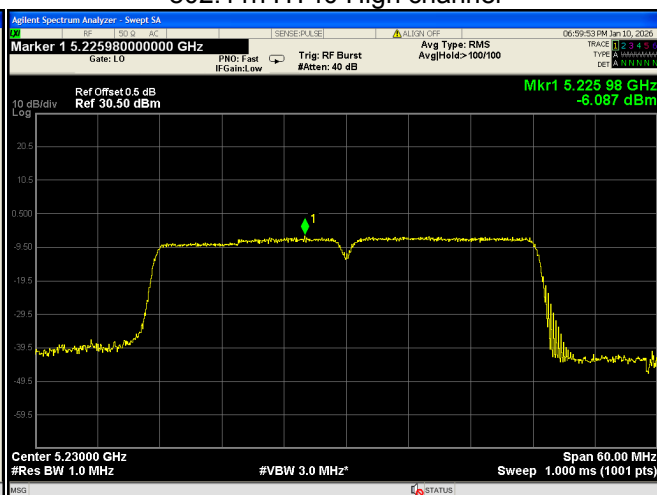
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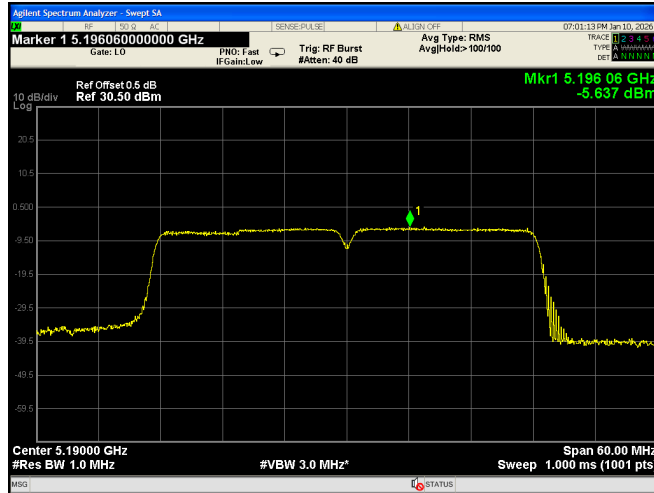
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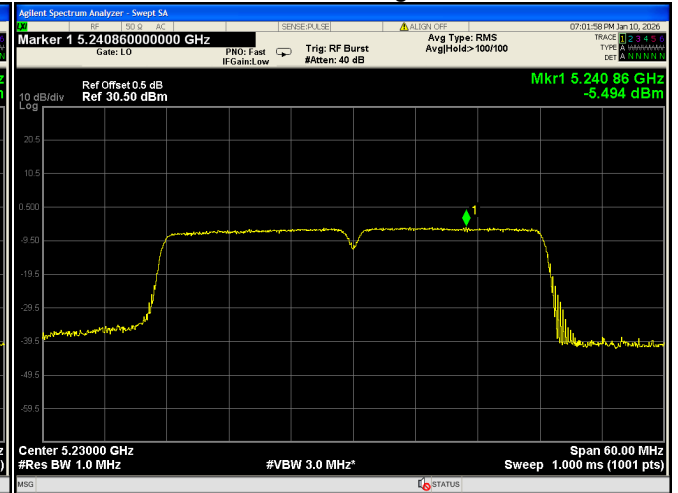
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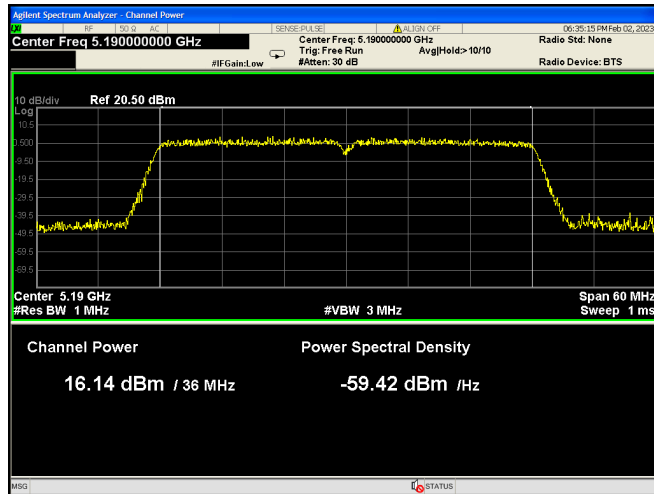
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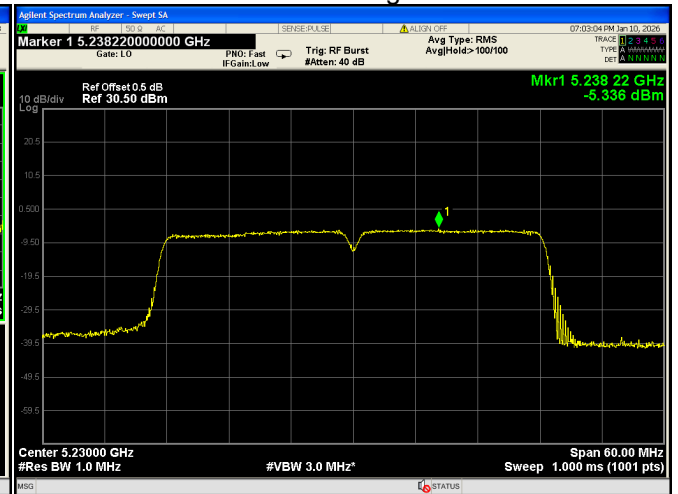
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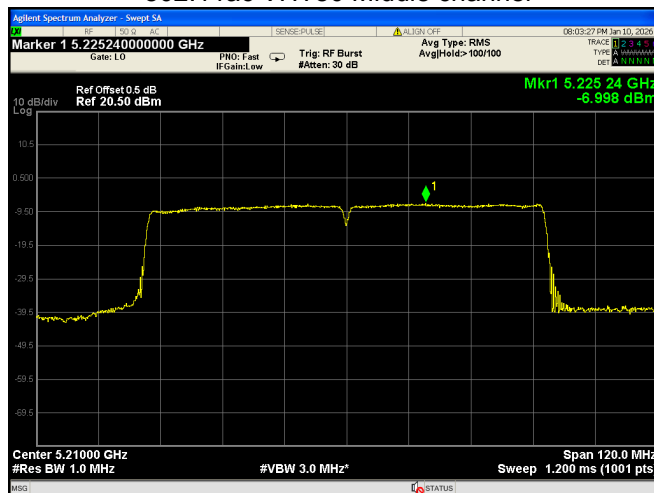
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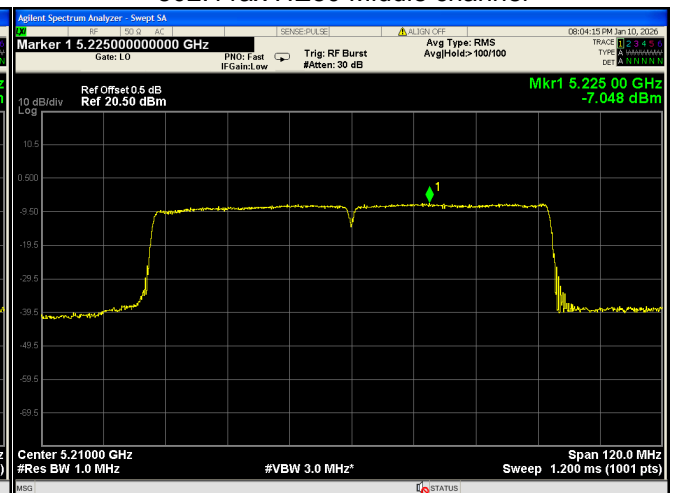
802.11ax HE40 High channel



802.11ac VHT80 Middle channel

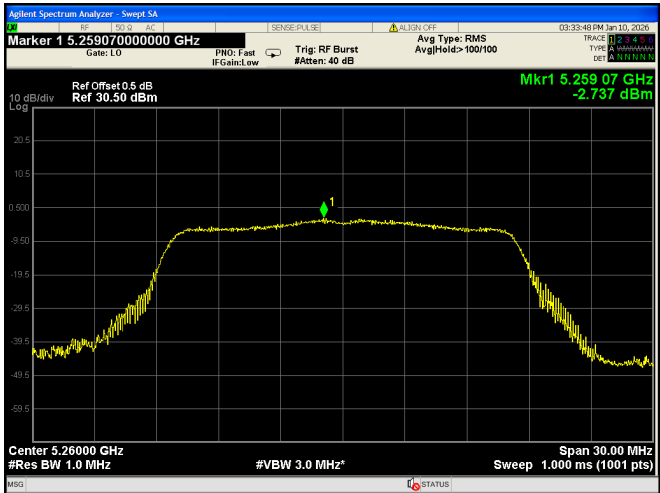


802.11ax HE80 Middle channel

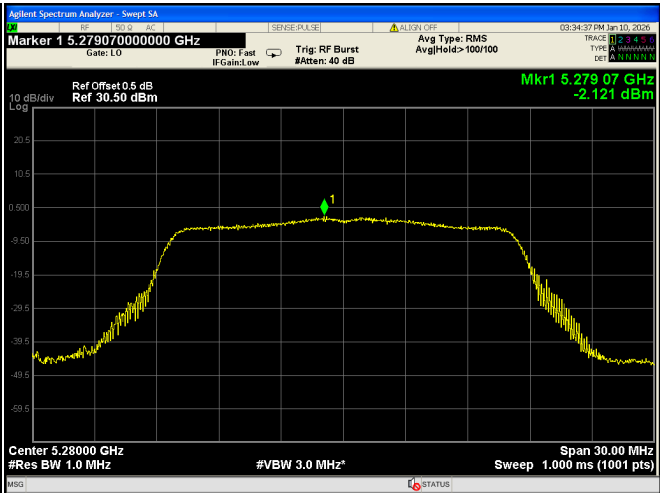


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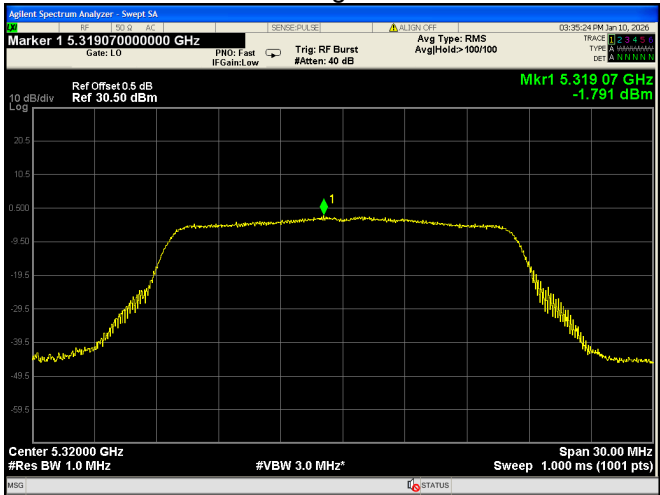
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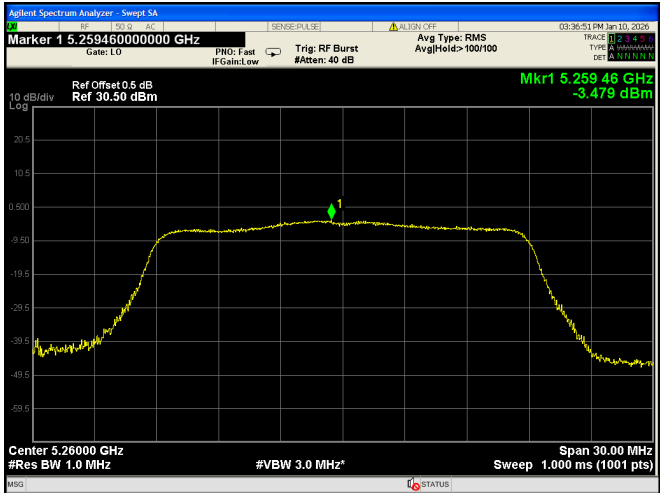
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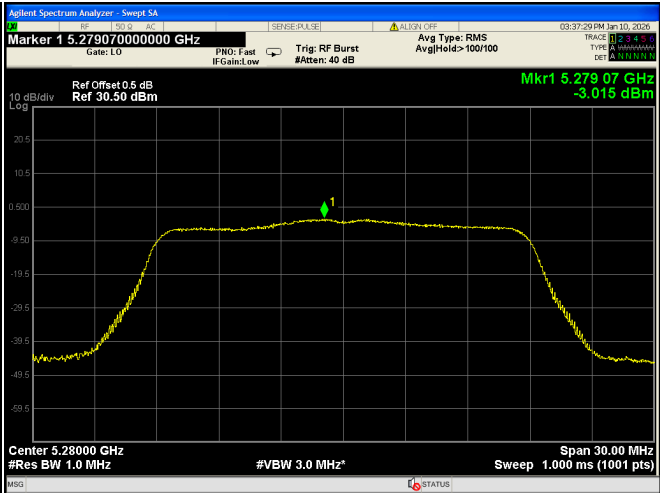
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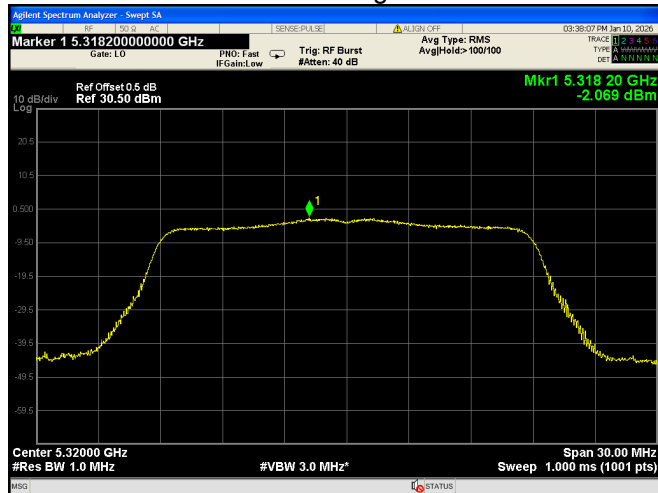
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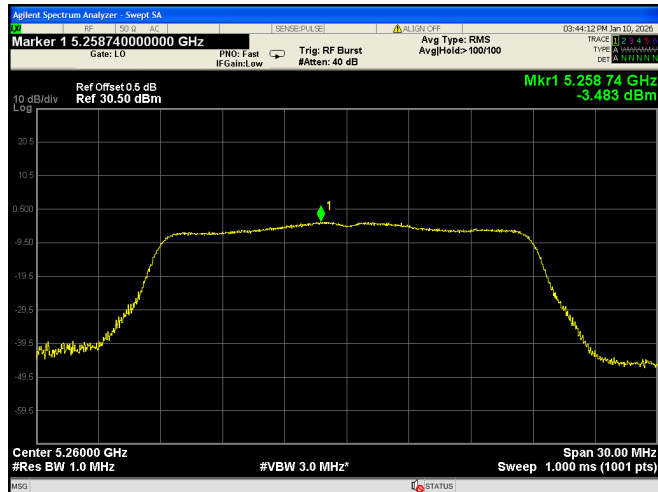
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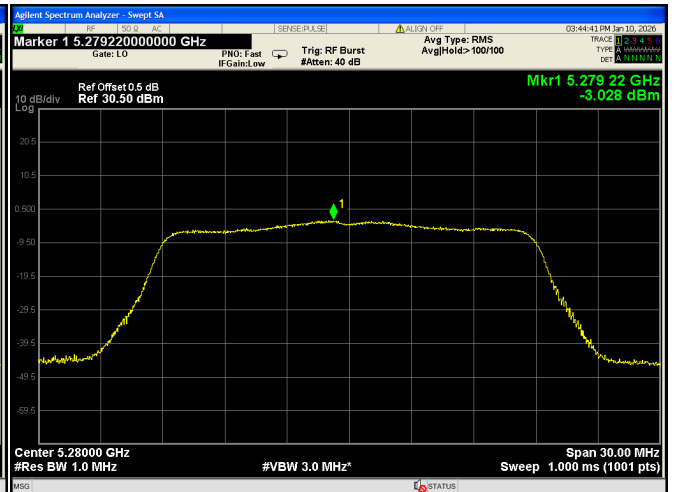
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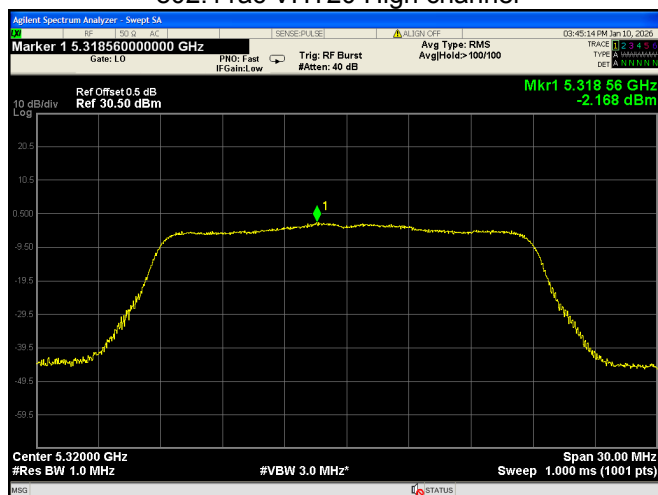
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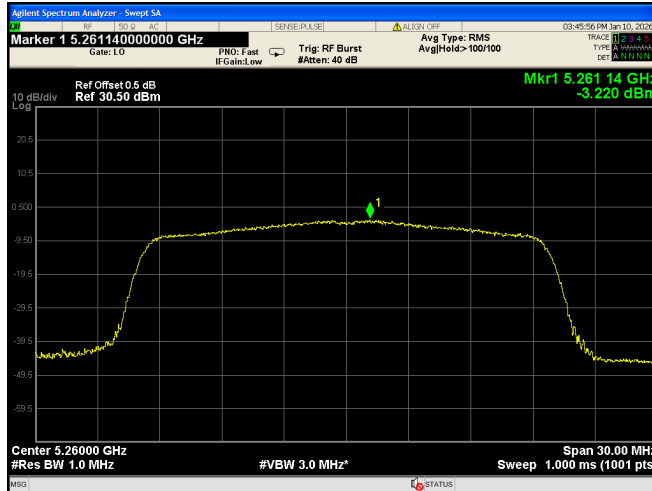
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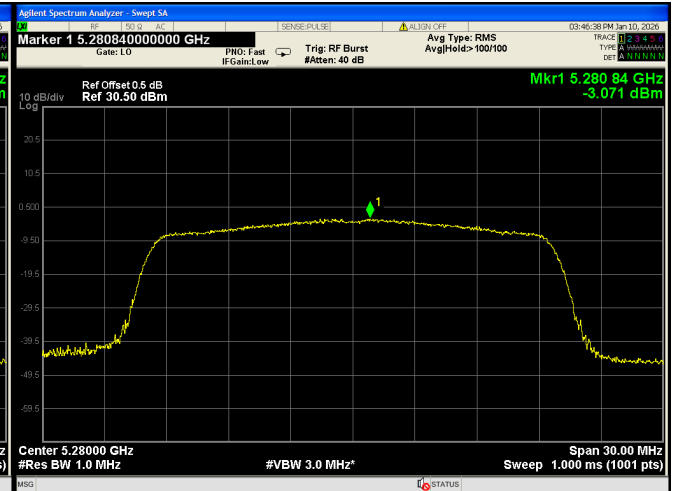
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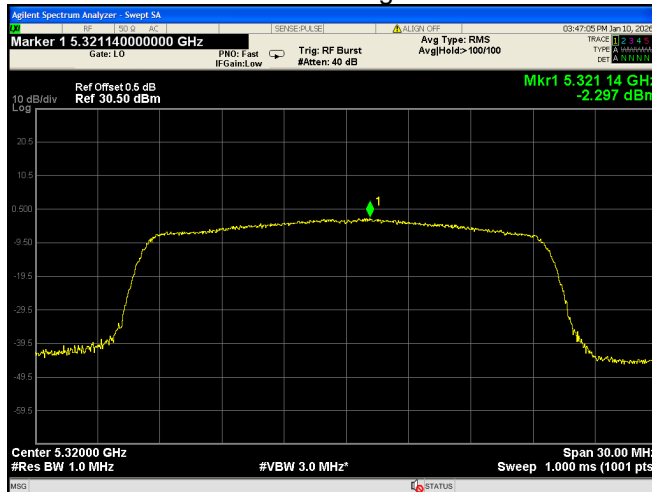
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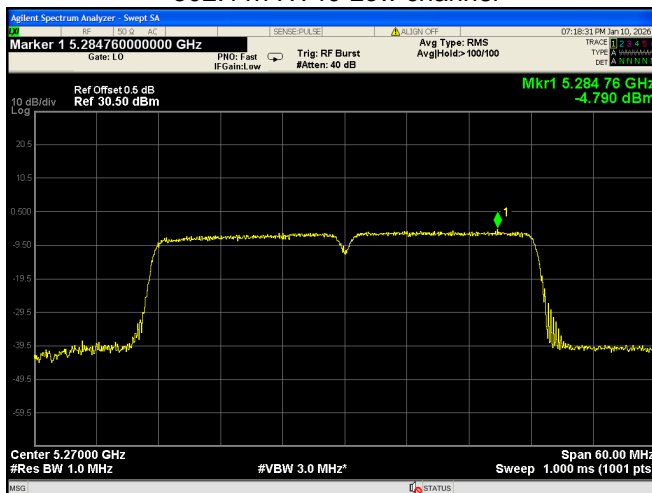
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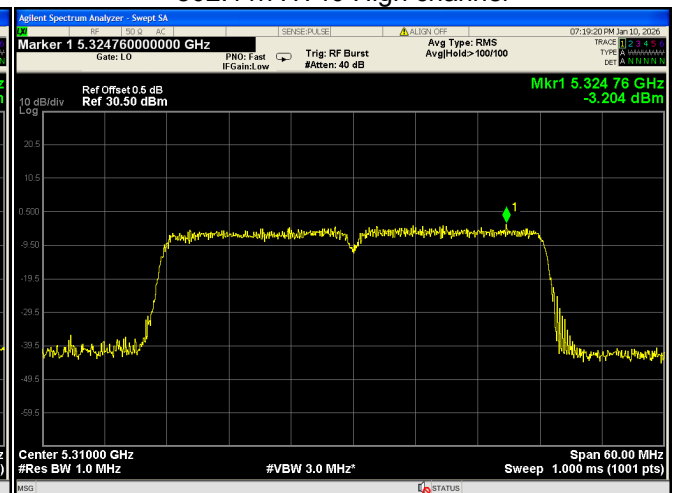
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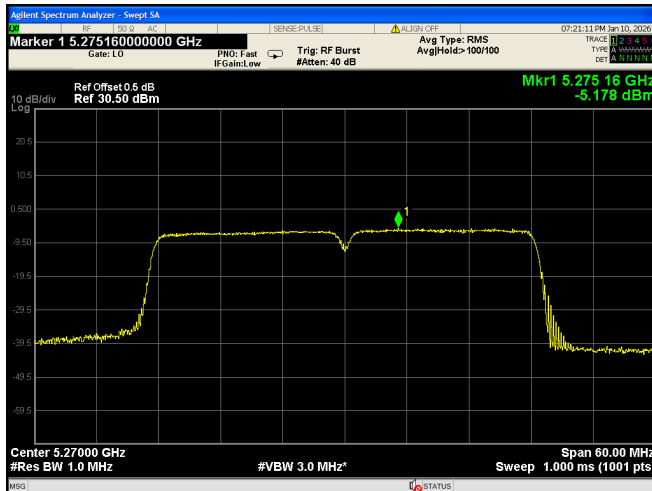
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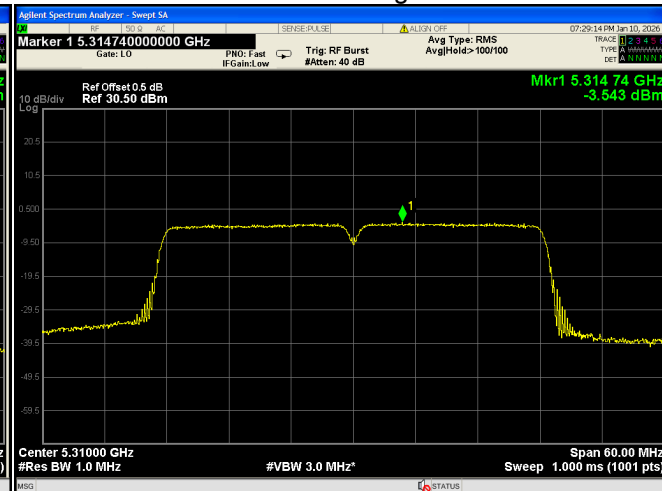
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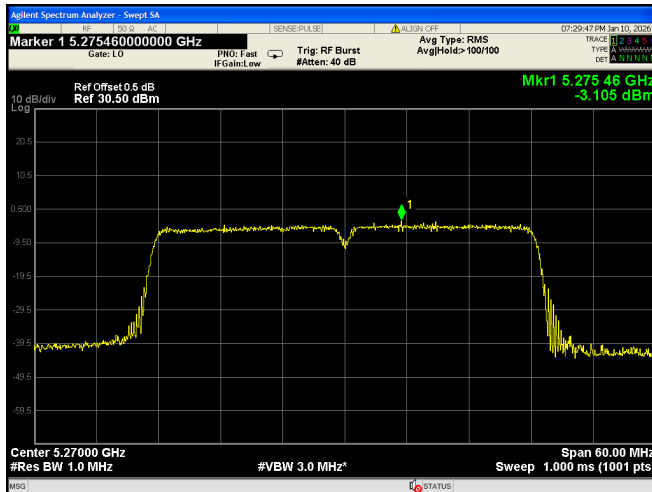
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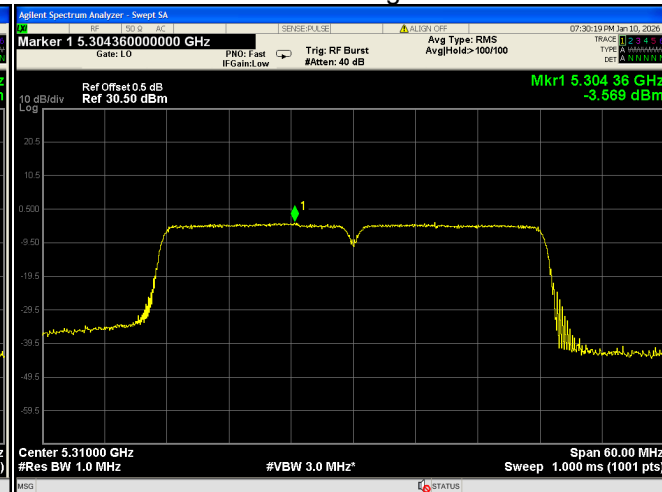
802.11ac VHT40 High channel



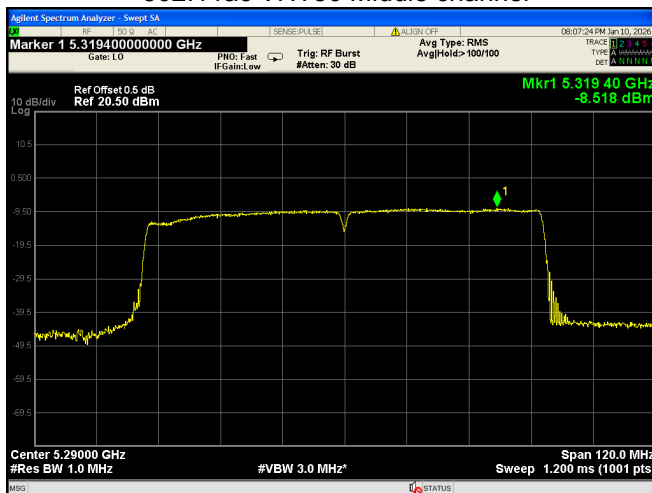
802.11ax HE40 Low channel



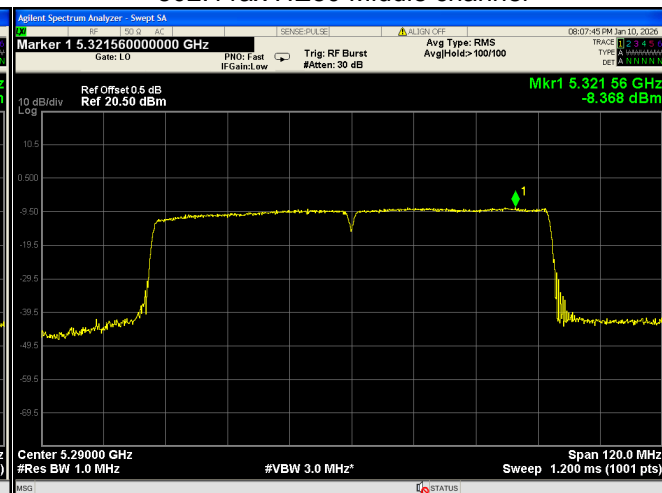
802.11ax HE40 High channel



802.11ac VHT80 Middle channel

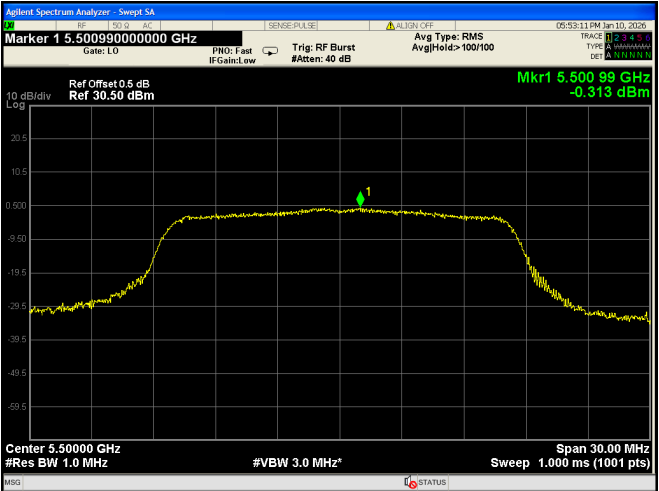


802.11ax HE80 Middle channel

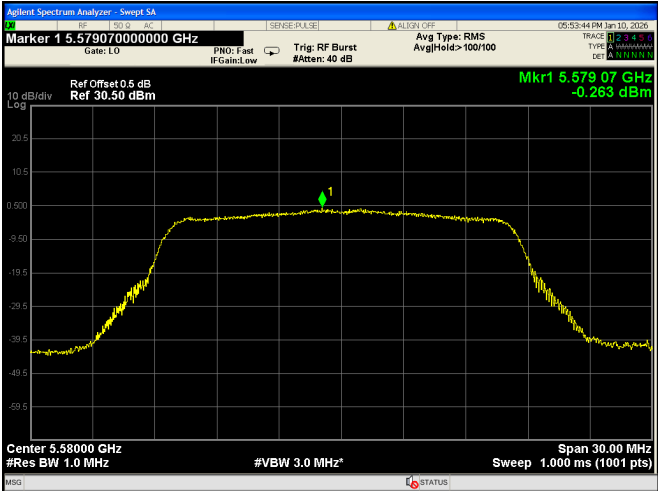


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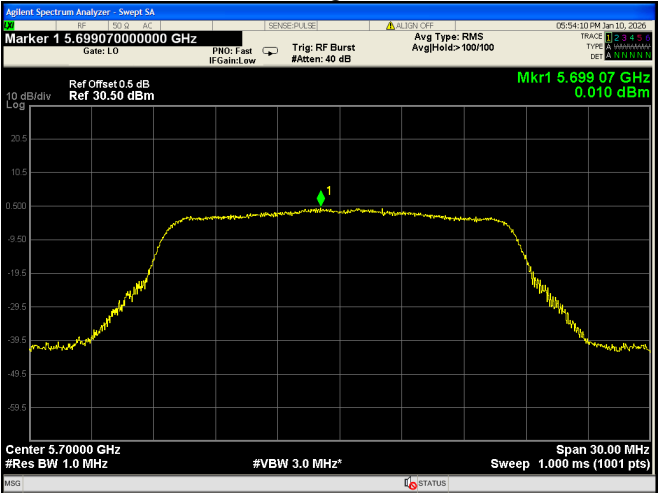
802.11a Low channel



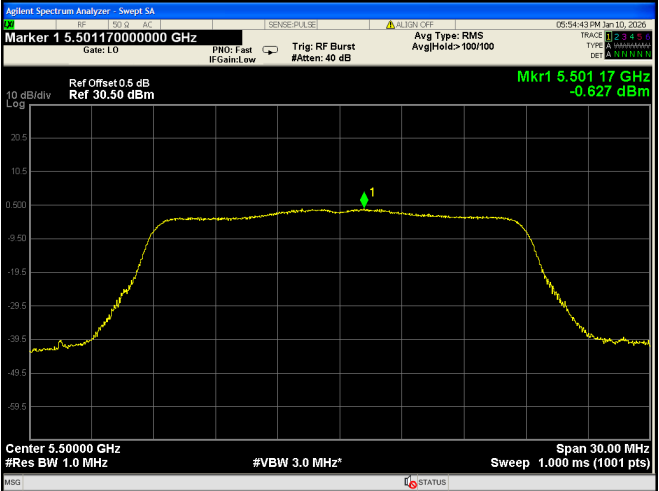
802.11a Middle channel



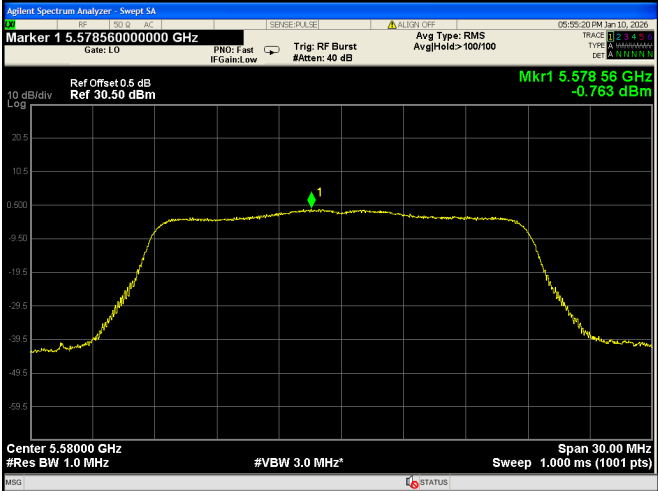
802.11a High channel



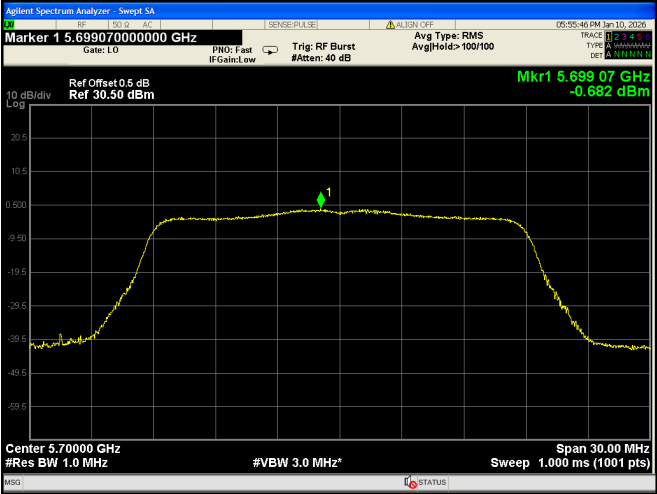
802.11n HT20 Low channel



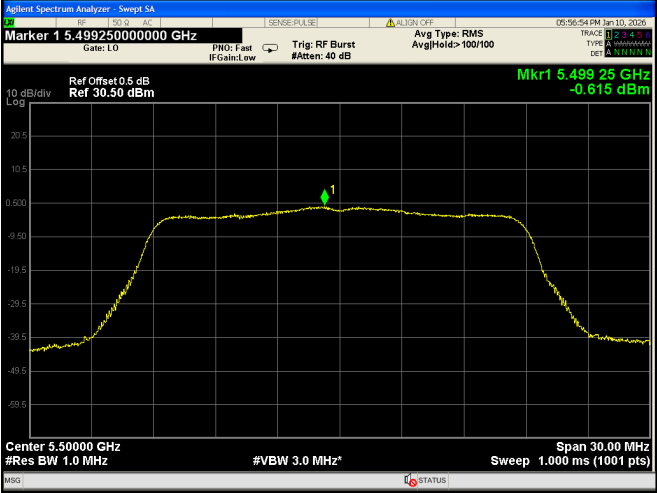
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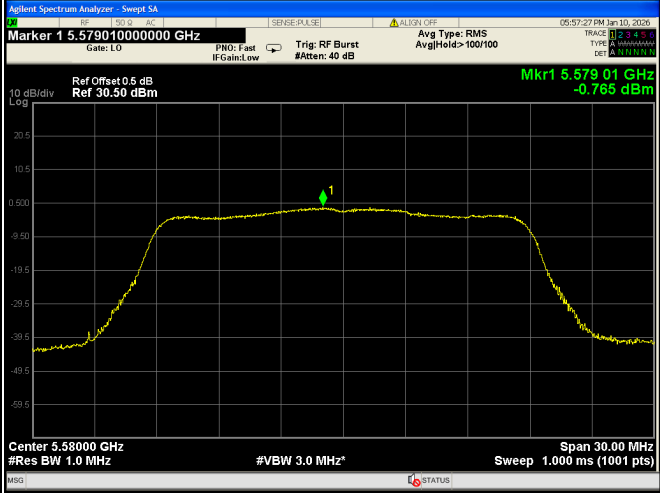
802.11n HT20 High channel



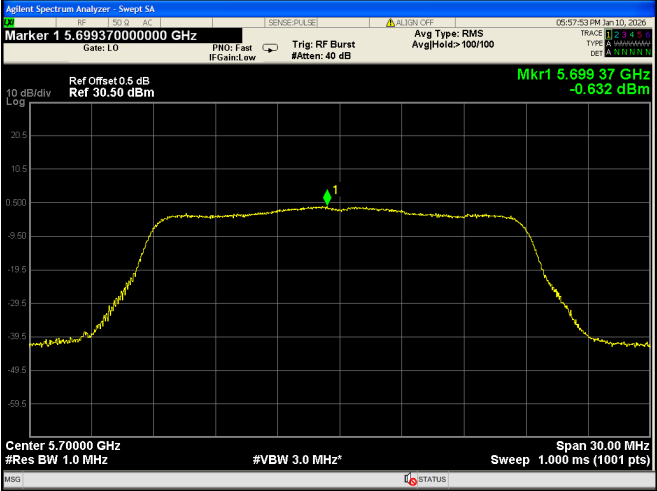
802.11ac VHT20 Low channel



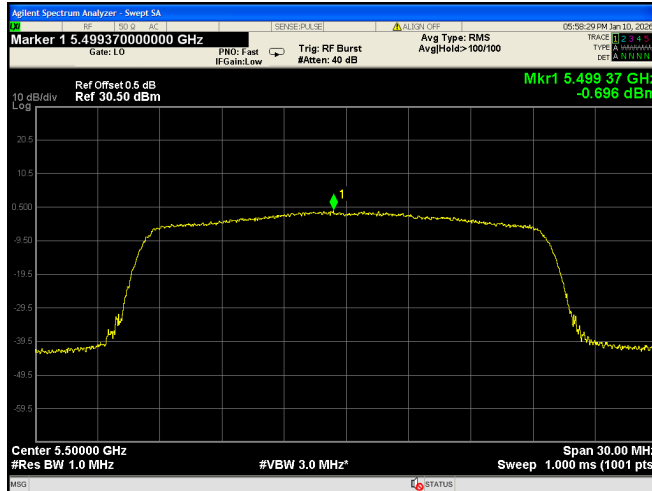
802.11ac VHT20 Middle channel



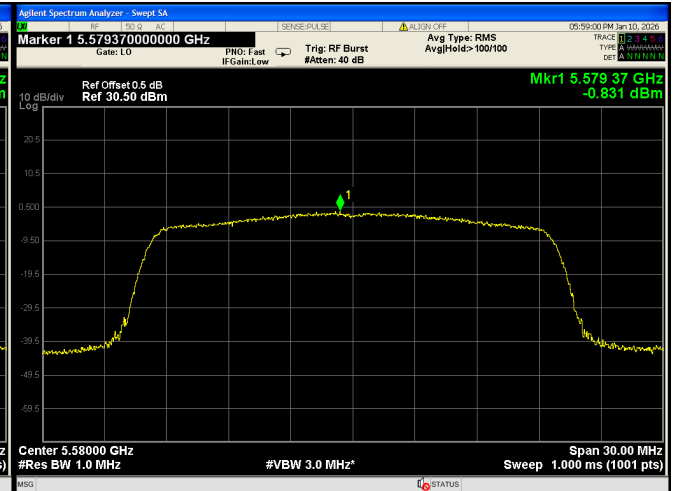
802.11ac VHT20 High channel



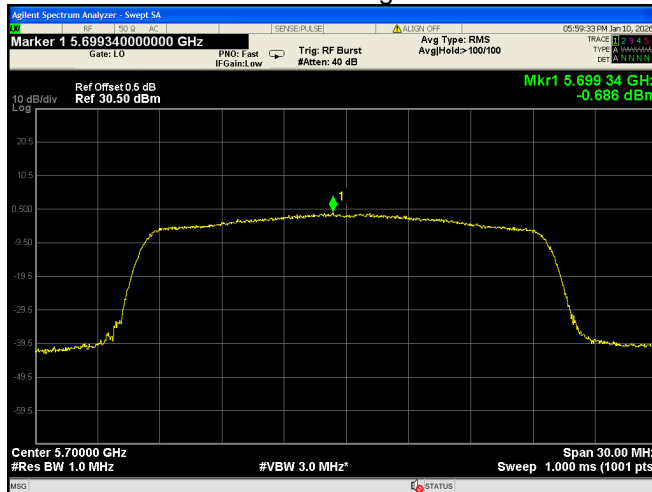
802.11ax HE20 Low channel



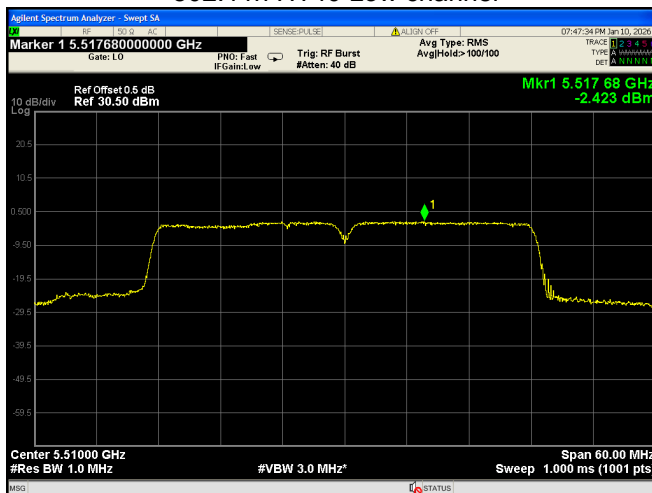
802.11ax HE20 Middle channel



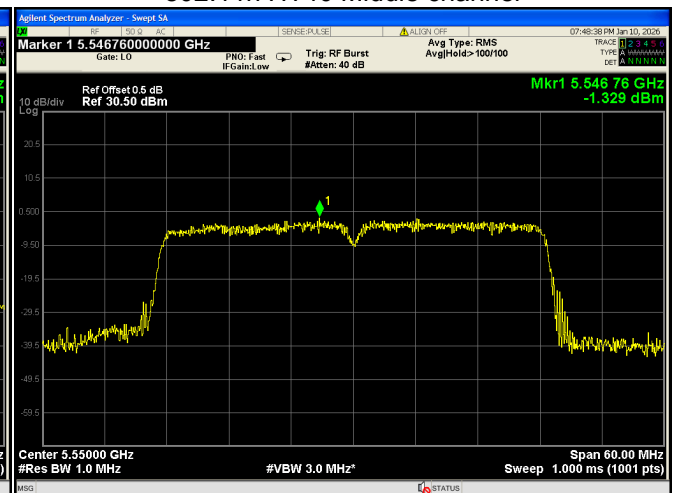
802.11ax HE20 High channel



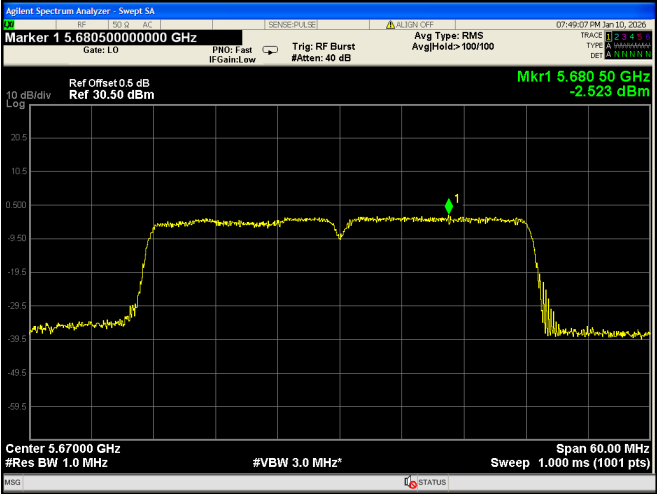
802.11n HT40 Low channel



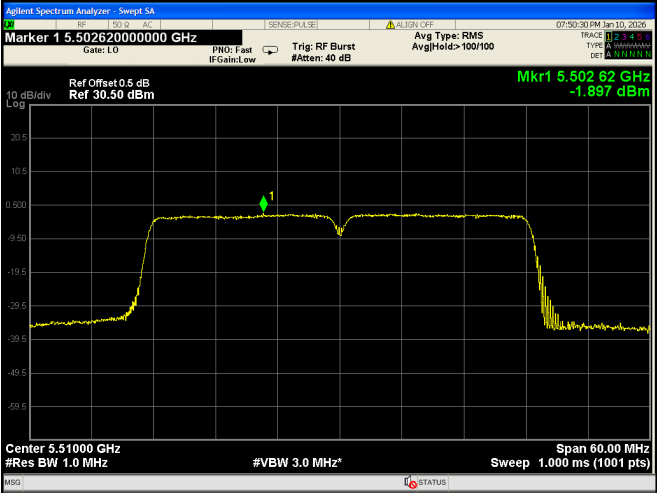
802.11n HT40 Middle channel



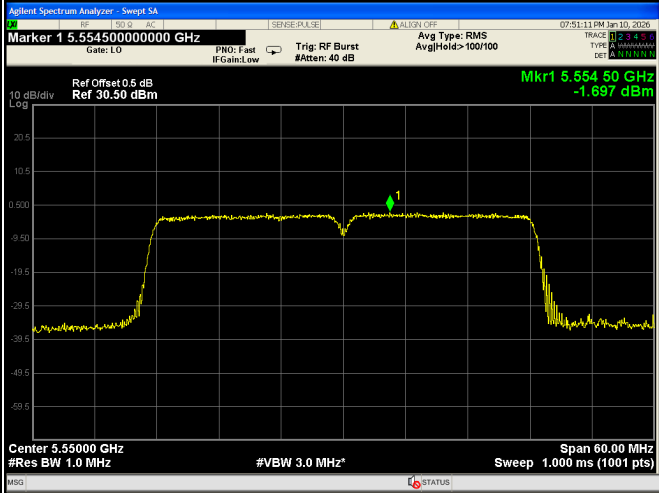
802.11n HT40 High channel



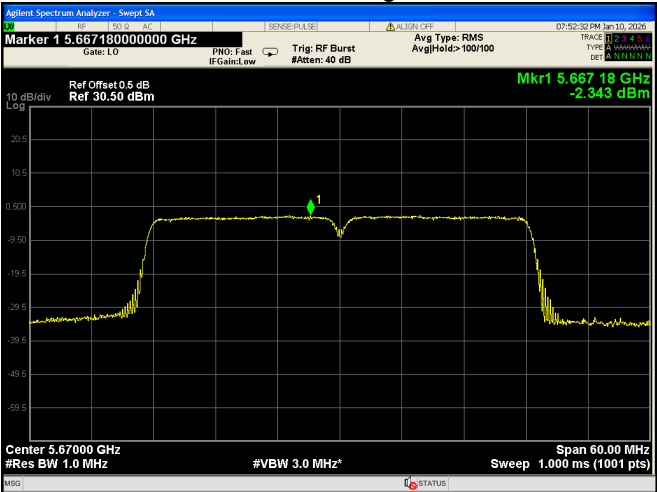
802.11ac VHT40 Low channel



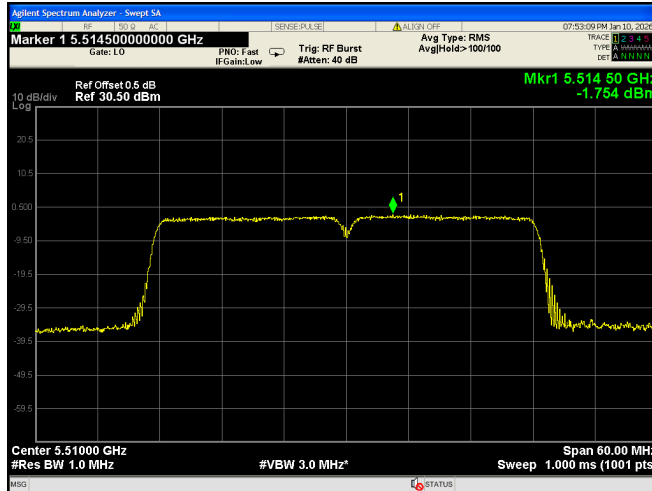
802.11ac VHT40 Middle channel



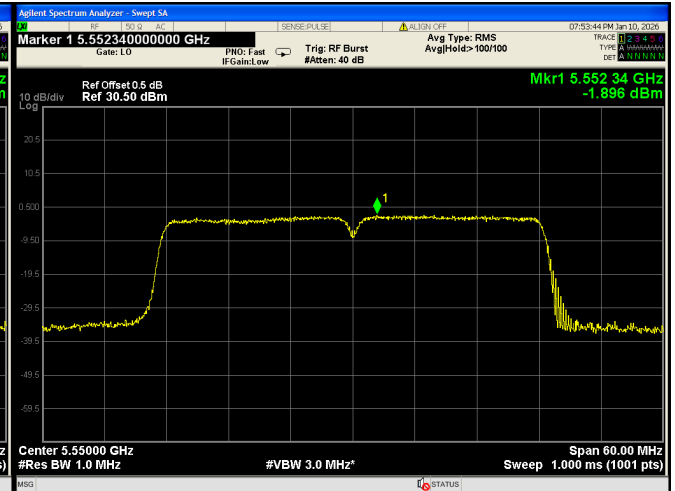
802.11ac VHT40 High channel



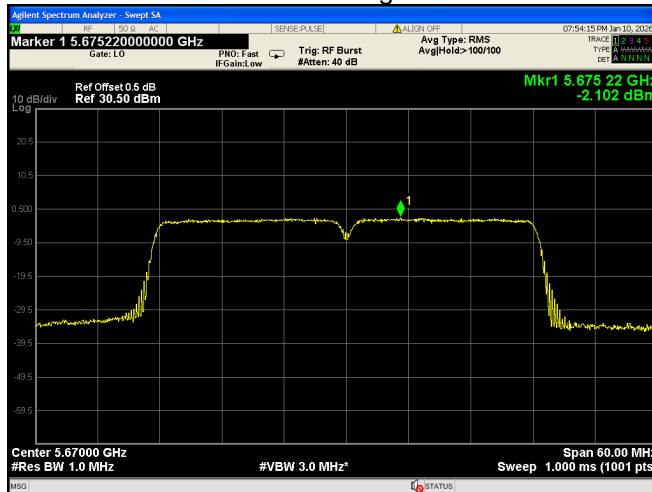
802.11ax HE40 Low channel



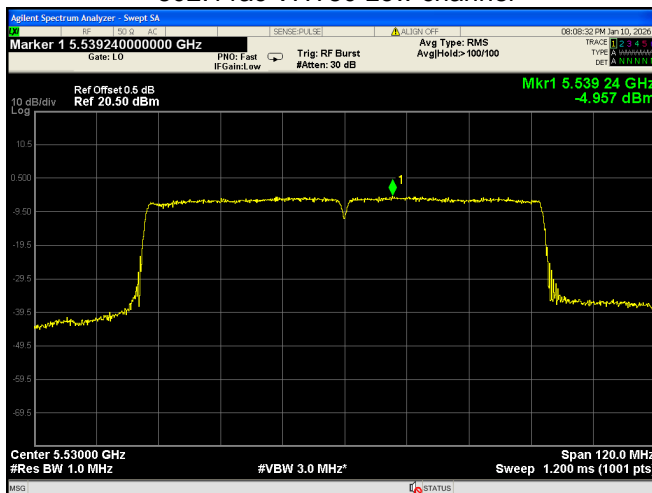
802.11ax HE40 Middle channel



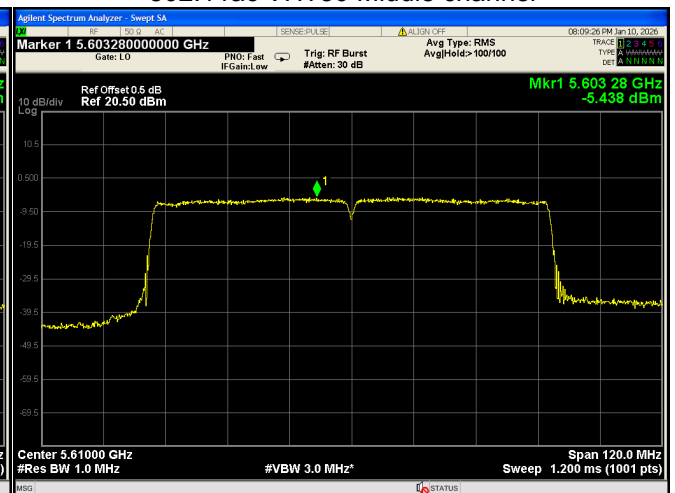
802.11ax HE40 High channel



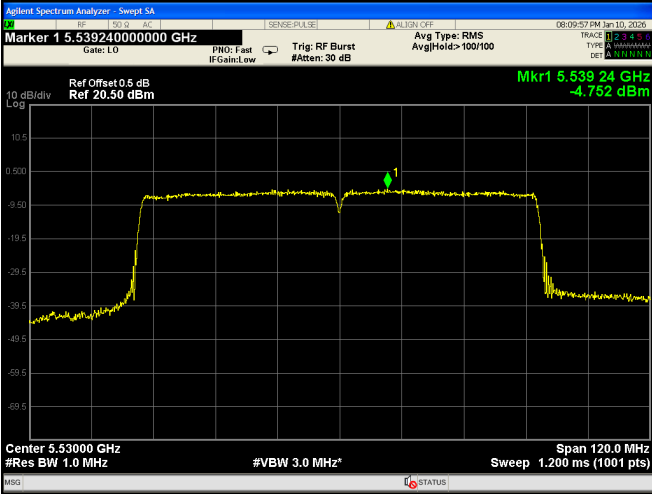
802.11ac VHT80 Low channel



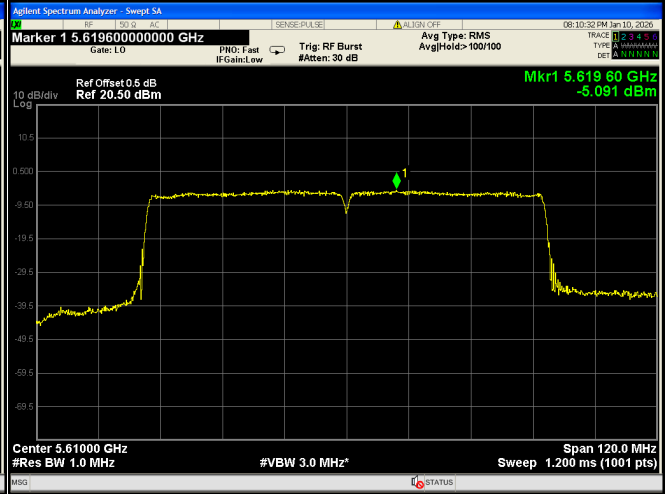
802.11ac VHT80 Middle channel



802.11ax HE80 Low channel

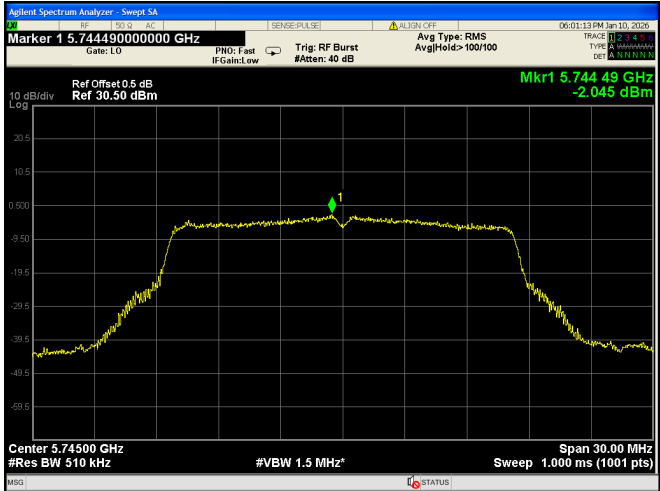


802.11ax HE80 Middle channel

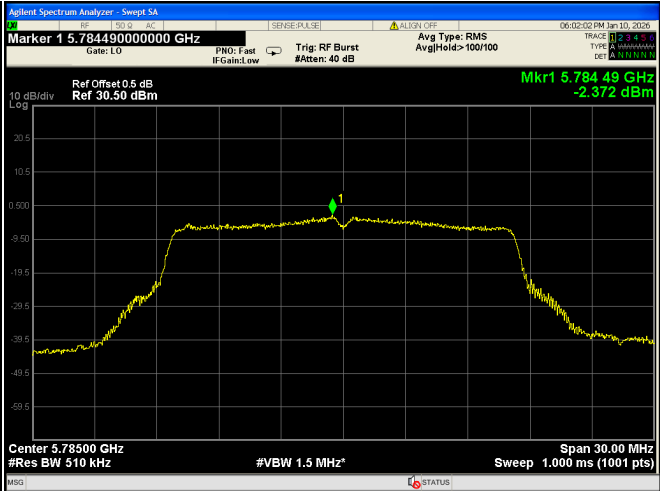


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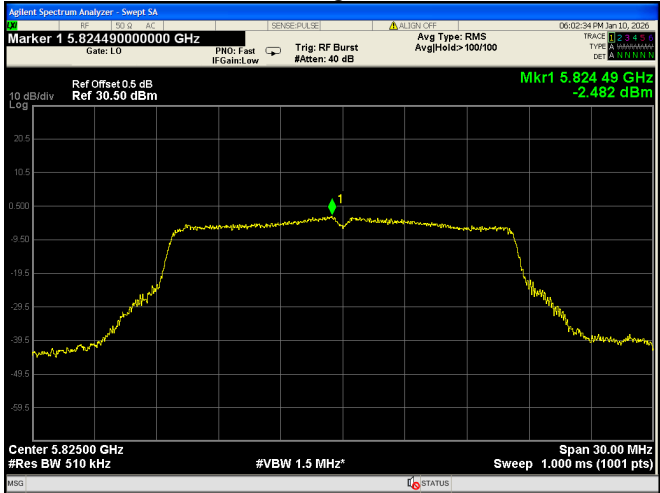
802.11a Low channel



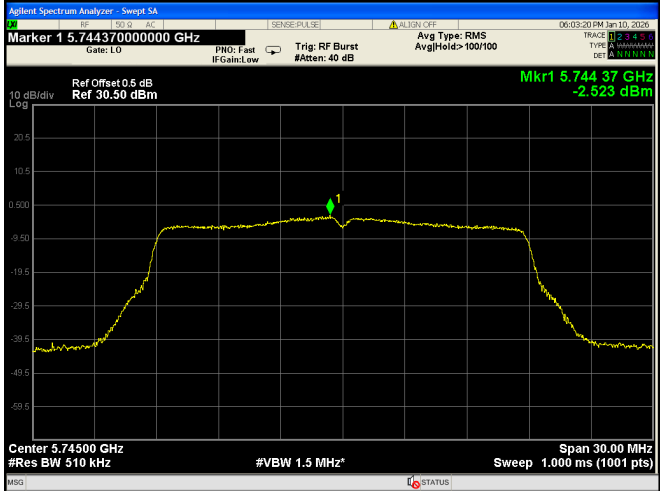
802.11a Middle channel



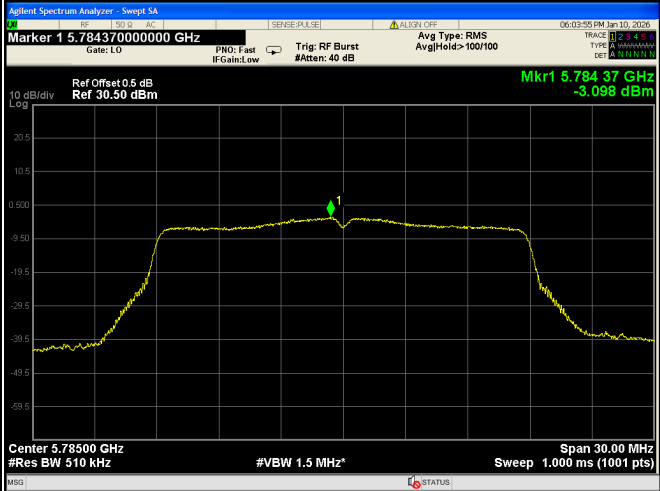
802.11a High channel



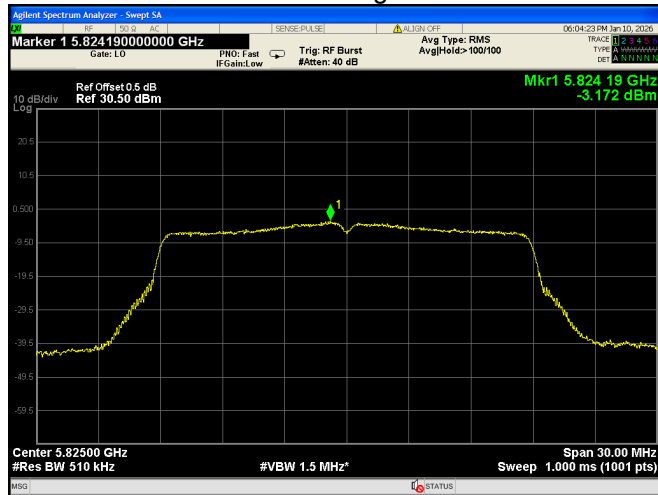
802.11n HT20 Low channel



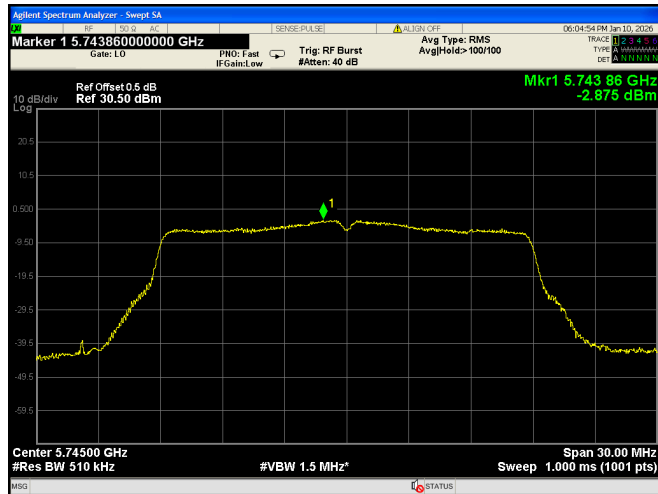
802.11n HT20 Middle channel



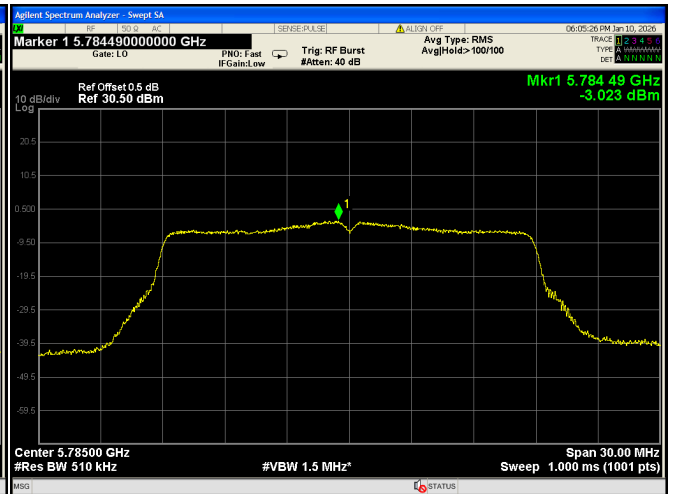
802.11n HT20 High channel



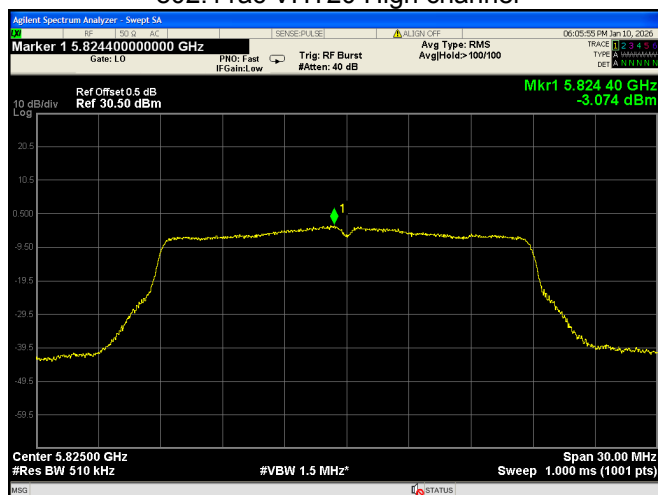
802.11ac VHT20 Low channel



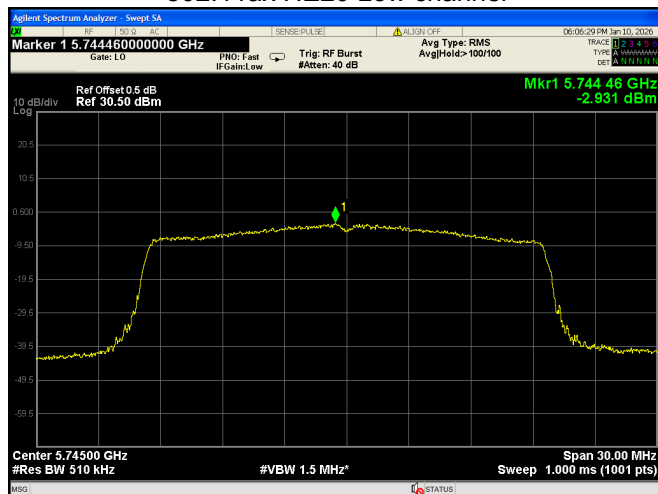
802.11ac VHT20 Middle channel



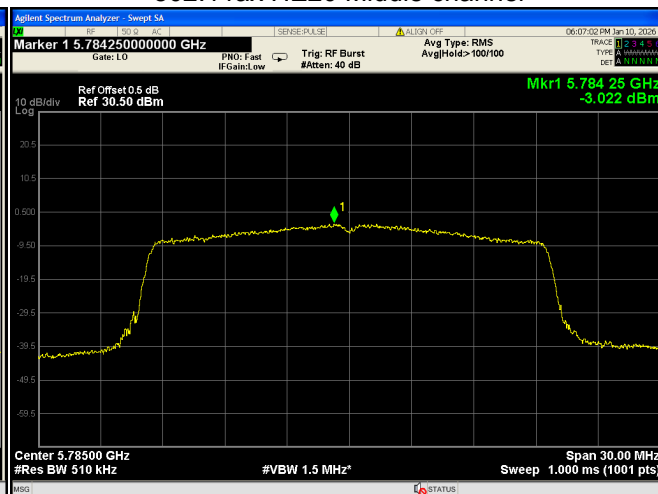
802.11ac VHT20 High channel



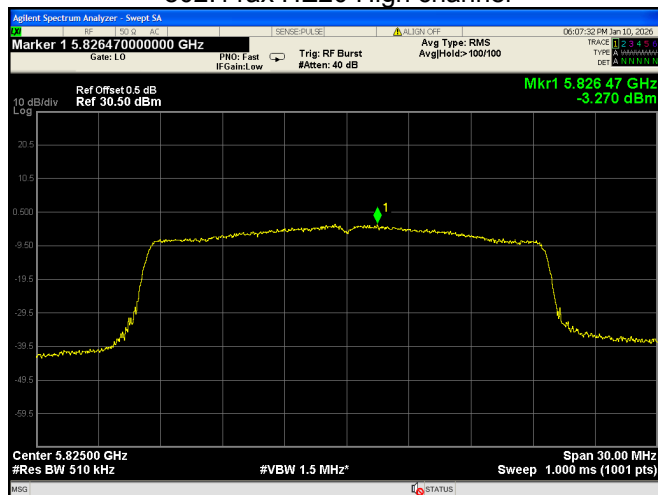
802.11ax HE20 Low channel



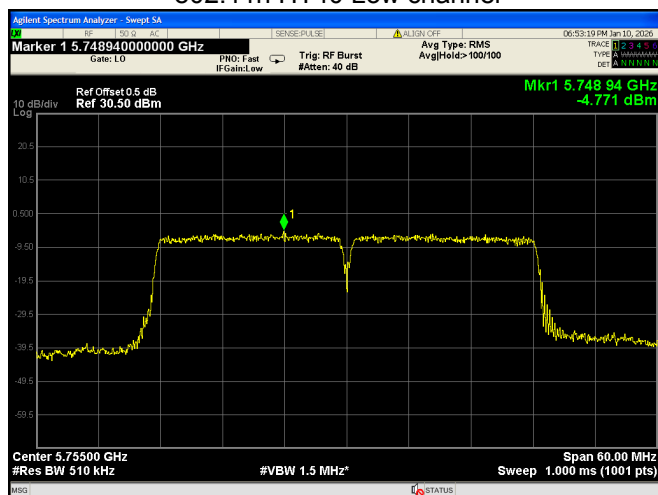
802.11ax HE20 Middle channel



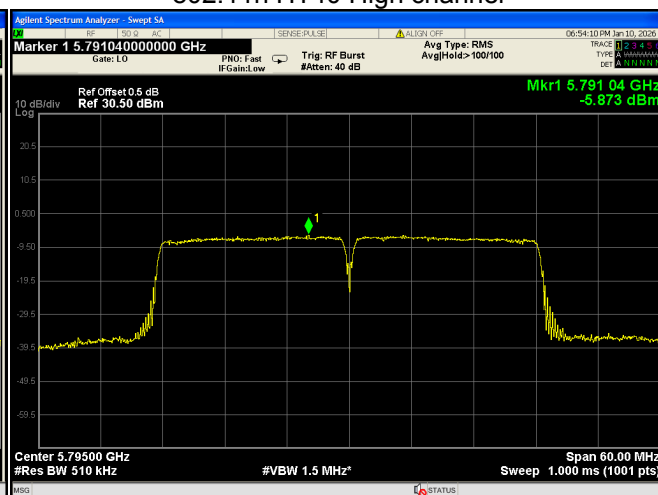
802.11ax HE20 High channel



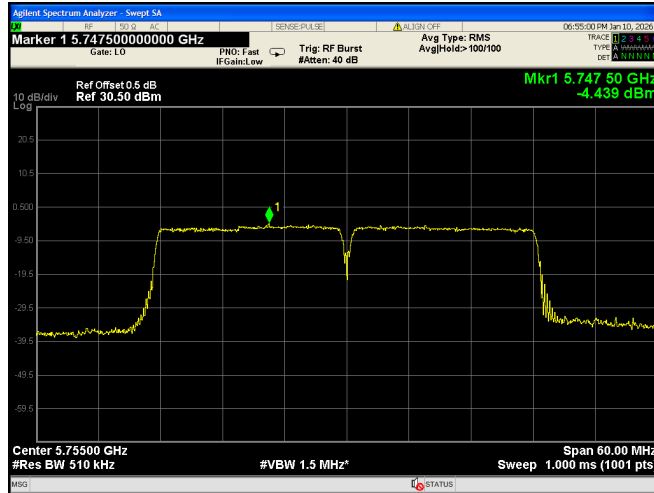
802.11n HT40 Low channel



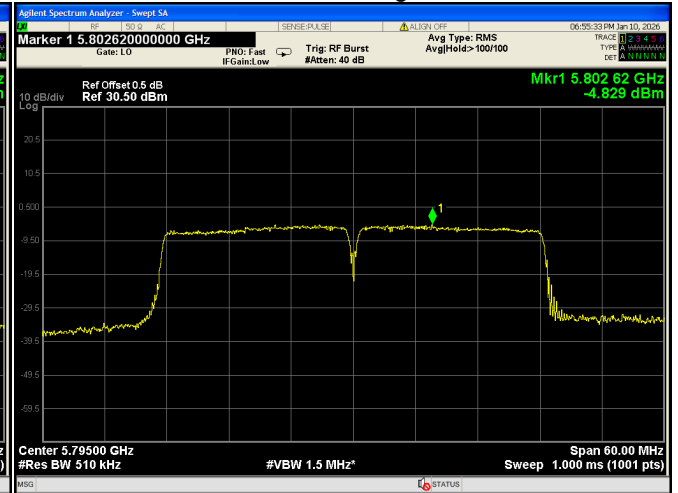
802.11n HT40 High channel



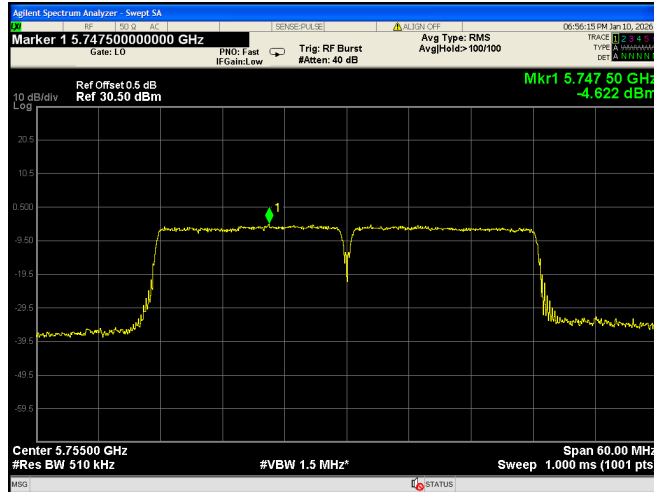
802.11ac VHT40 Low channel



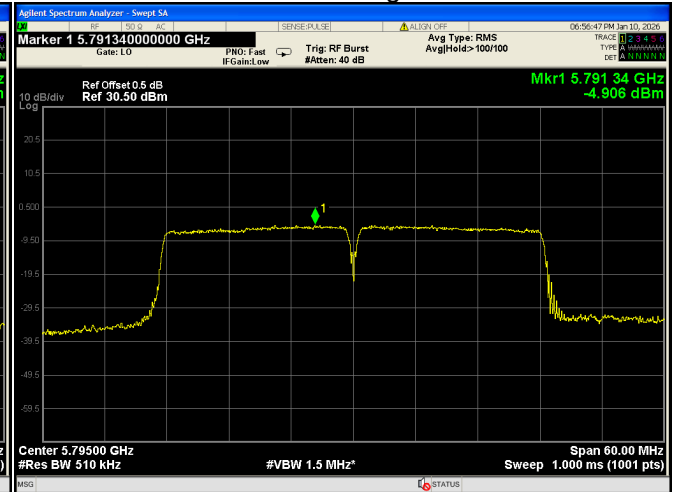
802.11ac VHT40 High channel



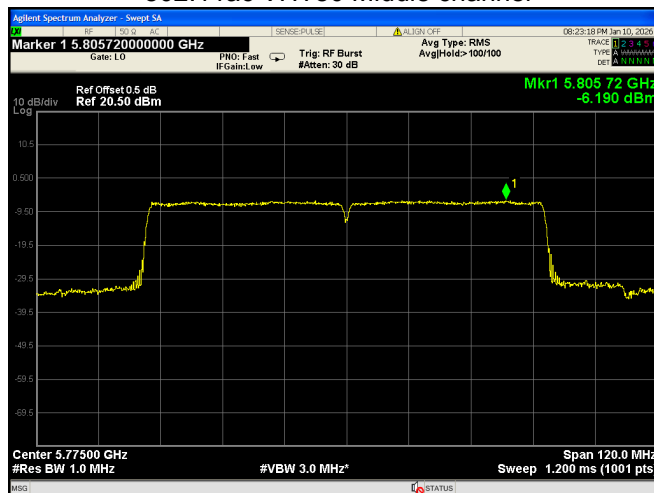
802.11ax HE40 Low channel



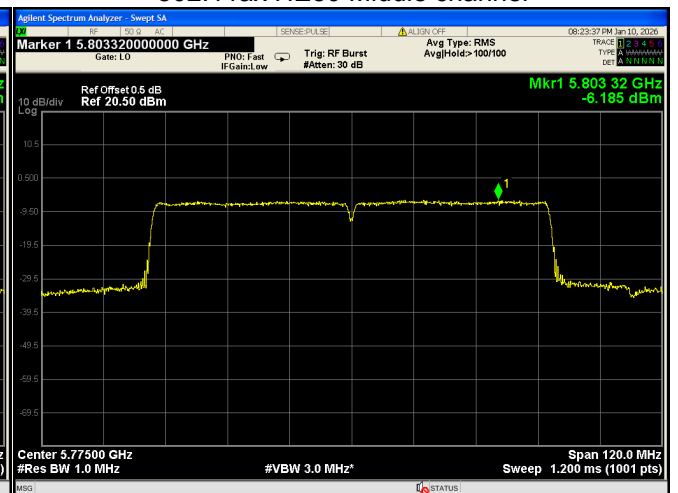
802.11ax HE40 High channel



802.11ac VHT80 Middle channel



802.11ax HE80 Middle channel



15 Frequency Stability

Test Requirement:	FCC CFR47 Part 15 Section 15.407(g) ANSI C63.10-2020
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Test Limit:	According to 47CFR part 15 subpart E section 15.407(g): Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.
Test Result:	PASS

15.1 Test Procedure

According to § 2.1055 Measurements required: Frequency stability, the following test procedure was performed.

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of unmodulation signal and fixed channelise.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency.
6. Then the frequency stability formula is $(f_c - f) / f_c \times 10^6$ ppm.
7. Extreme temperature rule is -30°C~ 50°C.
8. Extreme voltage is 85 to 115 percent of the nominal value.

15.2 Test Result

Note: the manufacturer declared that the maximum frequency stability is below 20ppm.

Both Ant. 1 and Ant. 2 have been tested separately, and the report only shows the worst case.

Ant. 1

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (VAC)	Frequency deviation (MHz)	Frequency deviation (ppm)	Limit (ppm)
50	20	/	/	/
40		-0.0062	-10.13	20
30		-0.0023	-3.69	20
20		0.0000	0.00	20
10		-0.0038	-6.30	20
0		0.0002	0.28	20
-10		/	/	/
-20		/	/	/
-30		/	/	/
20	18	0.0067	11.01	20
20	22	-0.0009	-1.53	20

U-NII-2A Test Frequency:5260MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	20	/	/	/
45		-0.0004	-0.63	20
30		0.0069	11.30	20
20		0.0021	3.44	20
10		-0.0028	-4.56	20
0		0.0014	2.37	20
-10		0.0016	2.63	20
-15		0.0028	4.60	20
-30		/	/	/
20	18	-0.0010	-1.65	20
20	22	0.0059	9.64	20

U-NII-2C Test Frequency:5500MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	20	/	/	/
45		0.0049	8.09	20
30		0.0010	1.57	20
20		0.0025	4.09	20
10		0.0031	5.10	20
0		0.0030	4.97	20
-10		0.0023	3.81	20
-15		0.0004	0.60	20
-30		/	/	/
20	18	0.0055	9.01	20
20	22	0.0050	8.23	20

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (VAC)	Frequency deviation (MHz)	Frequency deviation (ppm)	Limit (ppm)
50	20	/	/	/
40		-0.0031	-5.11	20
30		0.0035	5.67	20
20		0.0021	3.44	20
10		-0.0020	-3.21	20
0		-0.0027	-4.46	20
-10		/	/	/
-20		/	/	/
-30		/	/	/
20	18	0.0005	0.78	20
20	22	0.0031	5.10	20

16 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has two FPC printed antennas fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

17 RF Exposure

Note: Please refer to RF Exposure Report: WTD25D11316003W007

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-SyBran-01-Photos.

=====End of Report=====