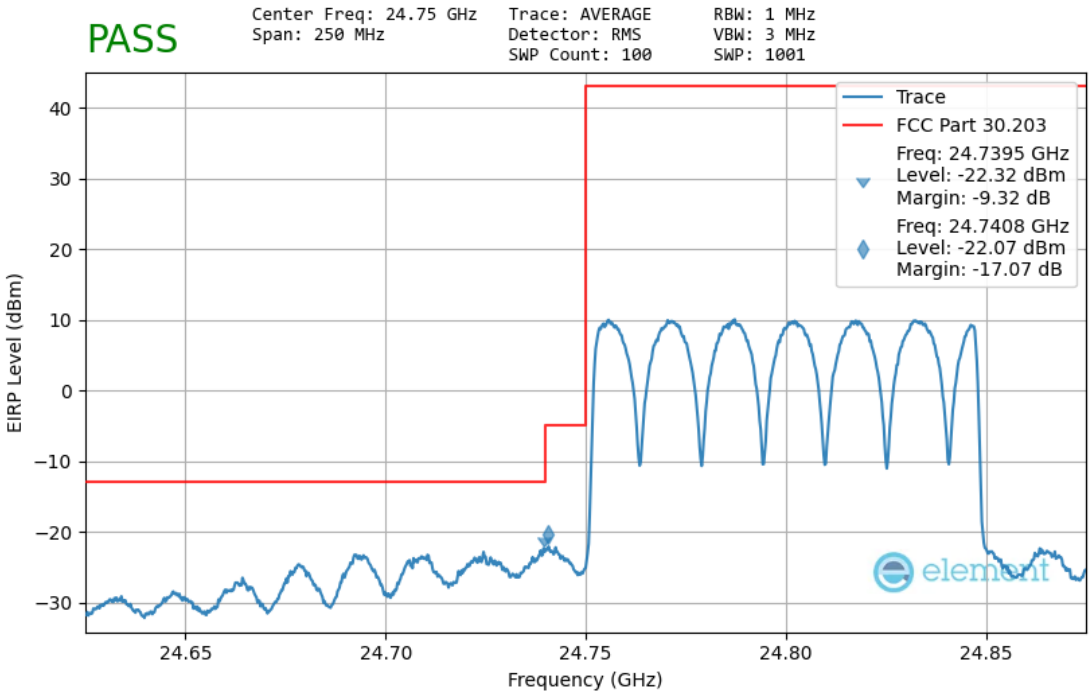
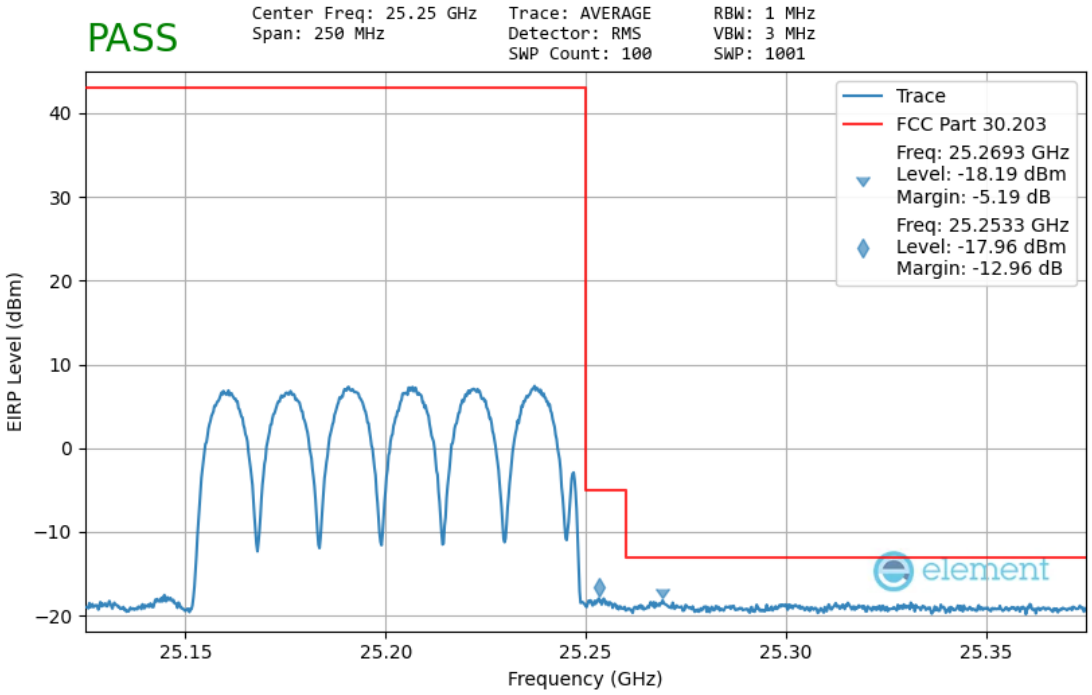


Plot 7-271.Ant 1 Lower Band Edge- (100MHz-1CC – DFT-s -OFDM QPSK Full RB)



Plot 7-272.Ant 1 Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB)

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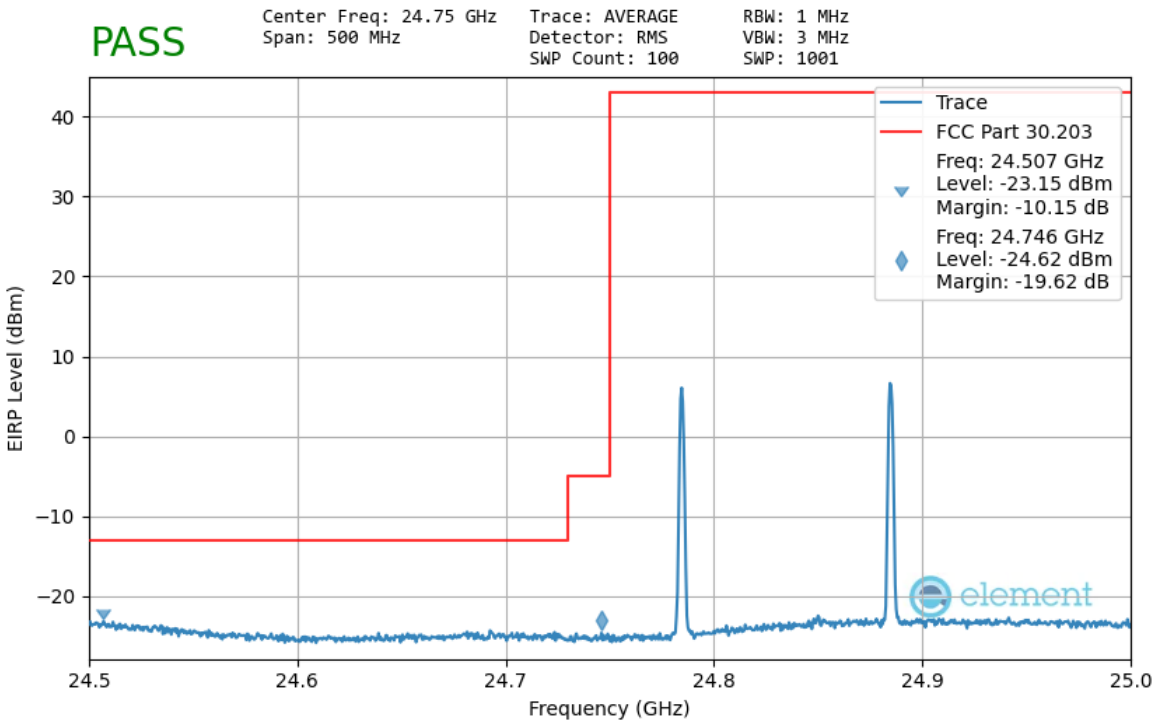
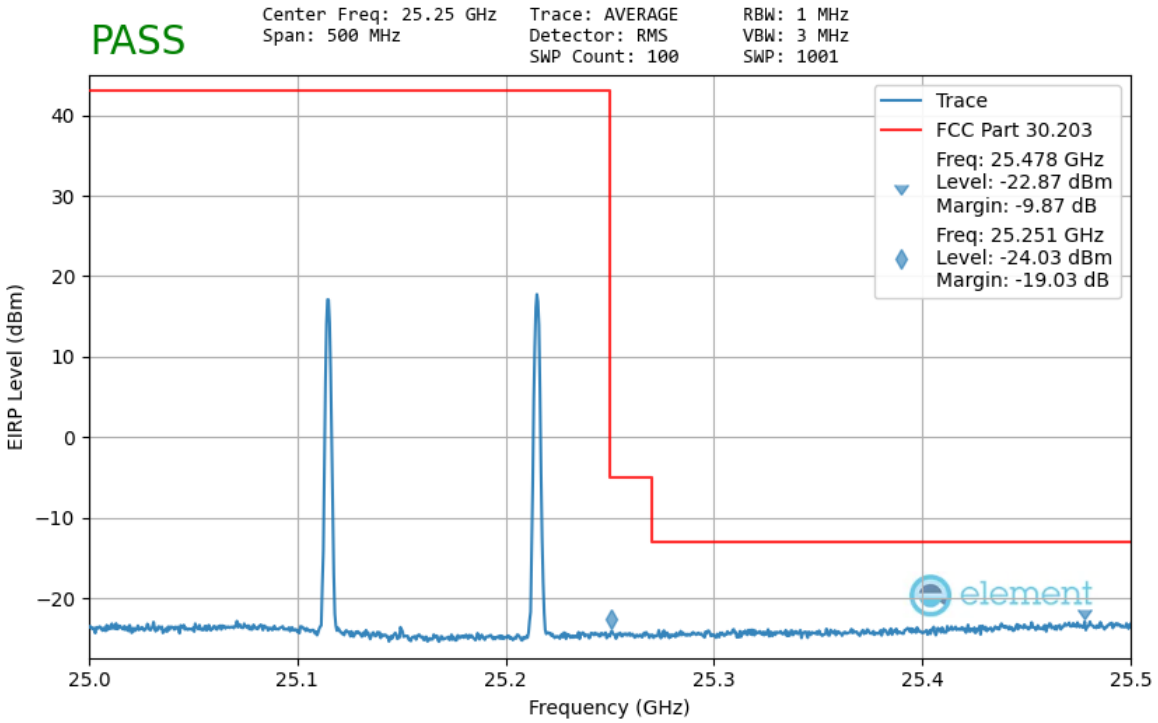


Plot 7-273.Ant 1 Lower Band Edge - (100MHz-2CC – DFT-s-OFDM π/2 BPSK 1 RB)



Plot 7-274.Ant 1 Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

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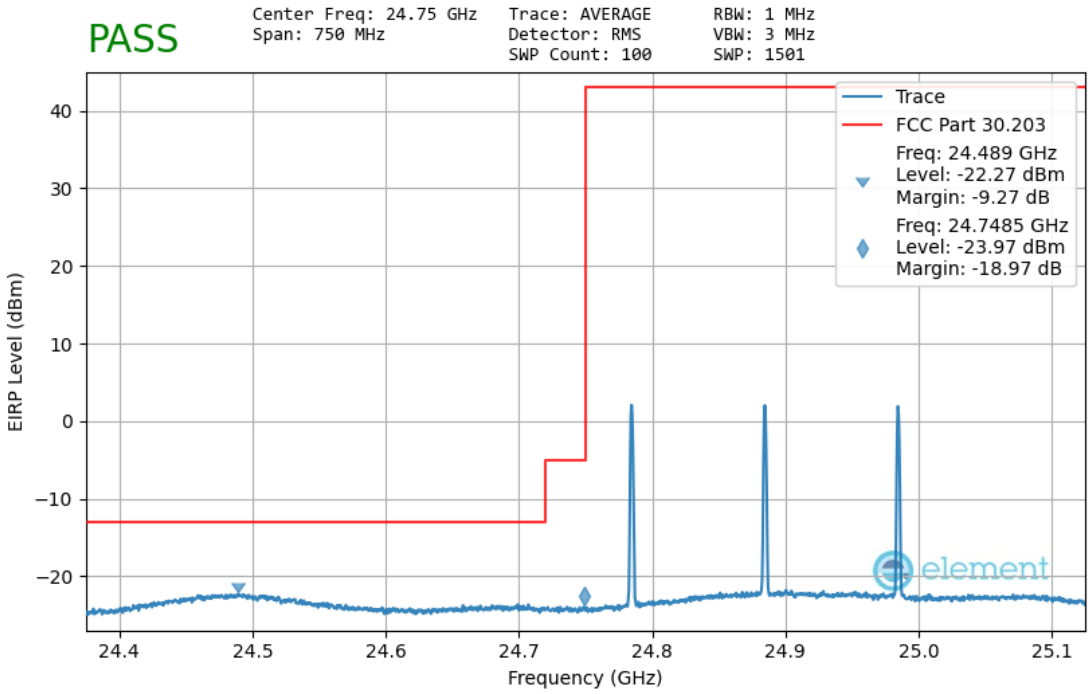
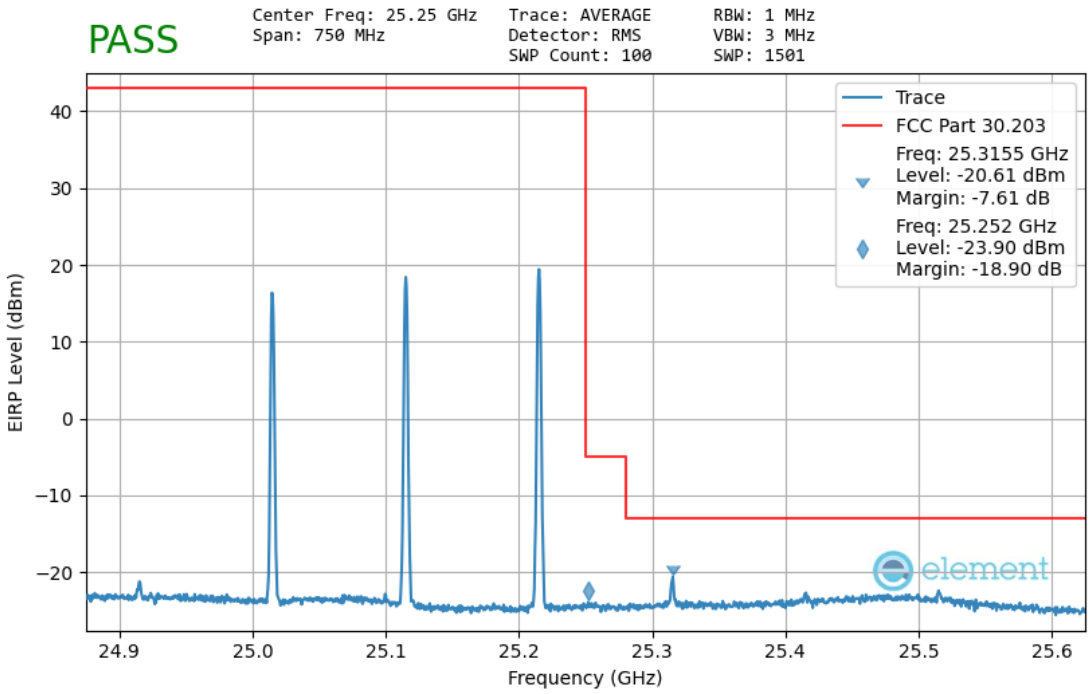


Plot 7-275.Ant 1 Lower Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-276.Ant 1 Upper Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

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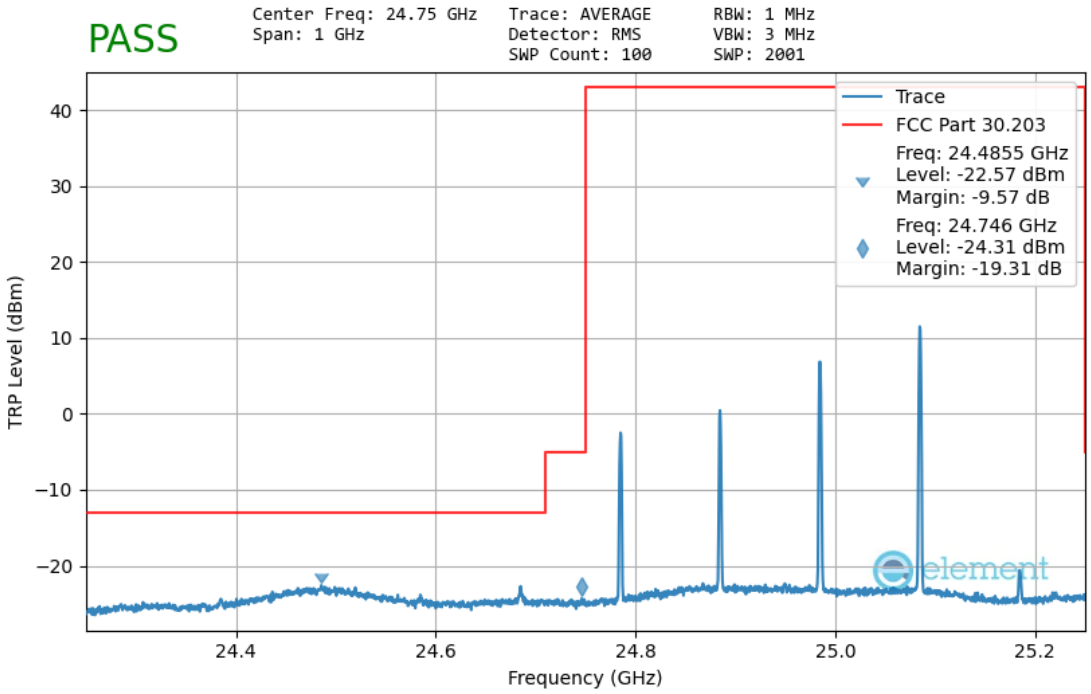
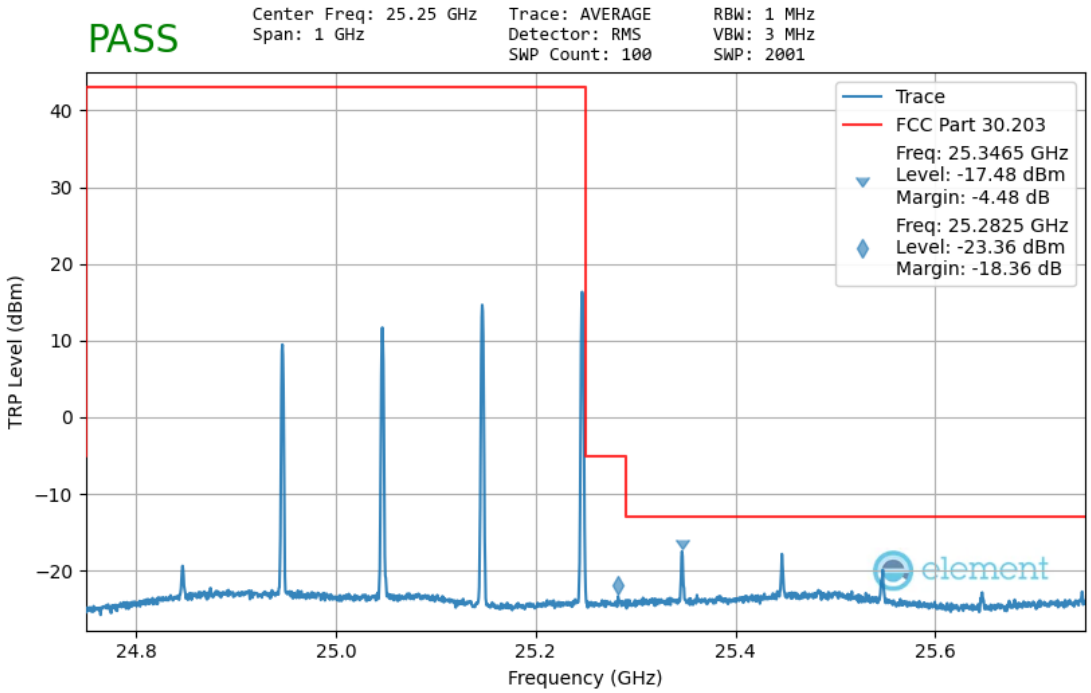


Plot 7-277.Ant 1 Lower Band Edge (100MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-278.Ant 1 Upper Band Edge (100MHz-4CC – CP-OFDM QPSK 1 RB)

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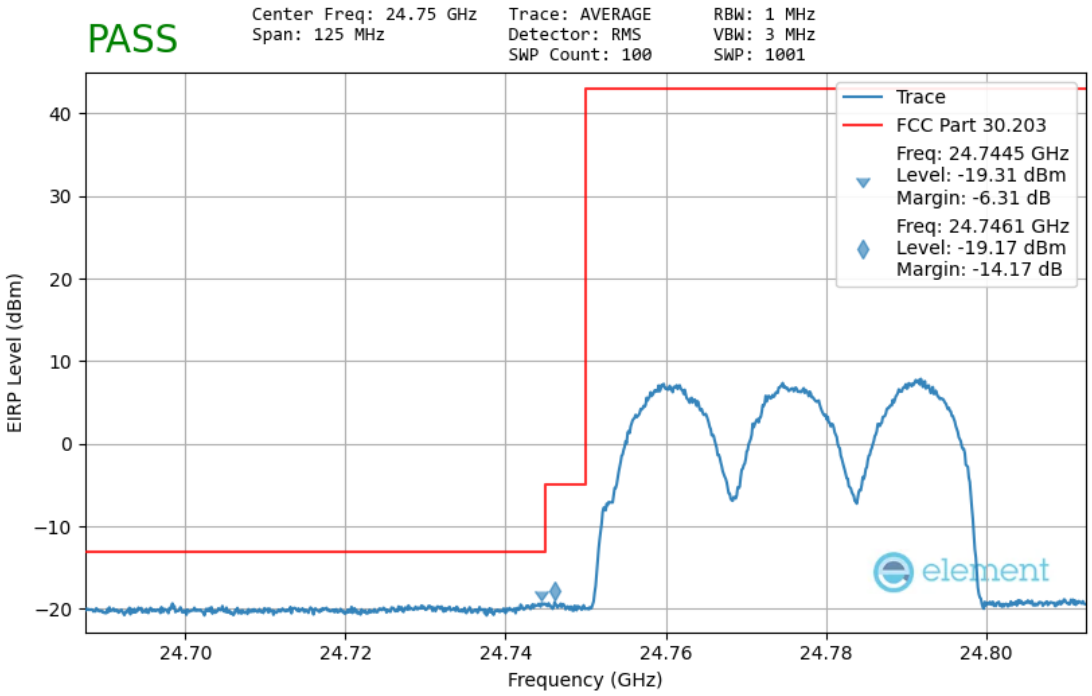
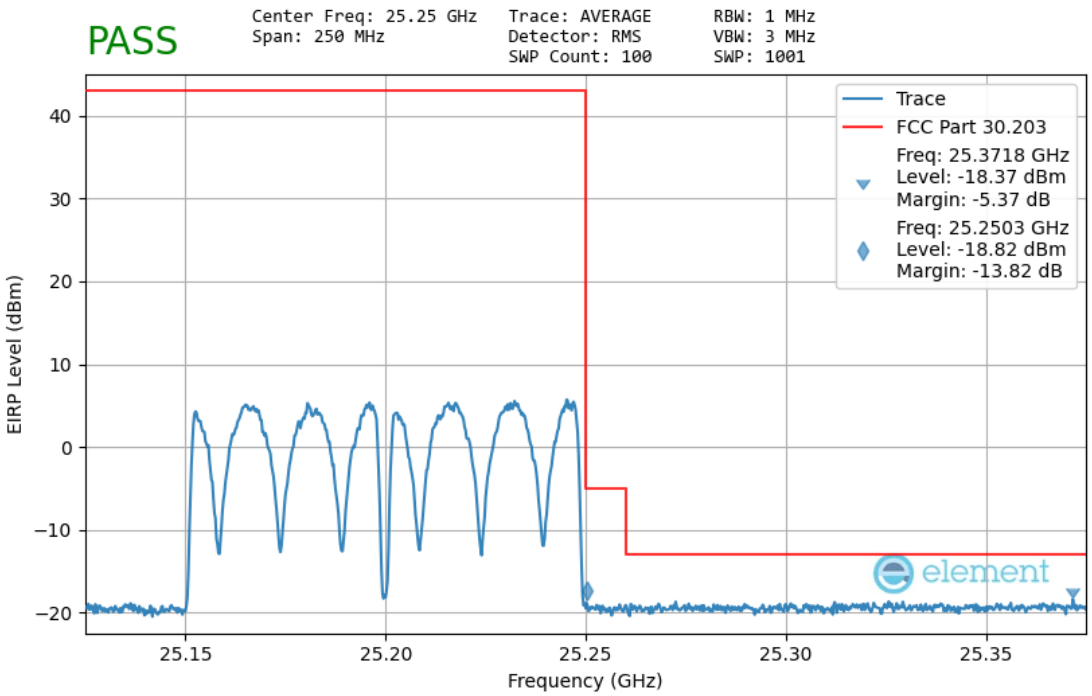


Plot 7-279. Ant 2 Lower Band Edge- (50MHz-1CC – DFT-s-OFDM QPSK Full RB)



Plot 7-280.Ant 2 Upper Band Edge - (50MHz-1CC – DFT-s-OFDM QPSK Full RB)

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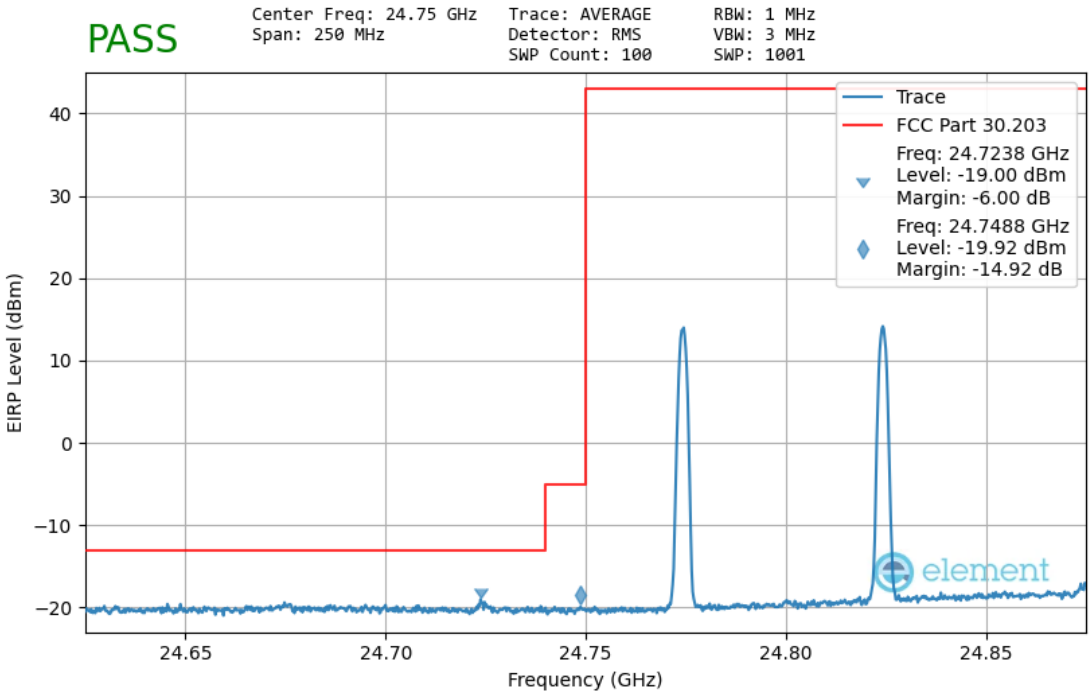
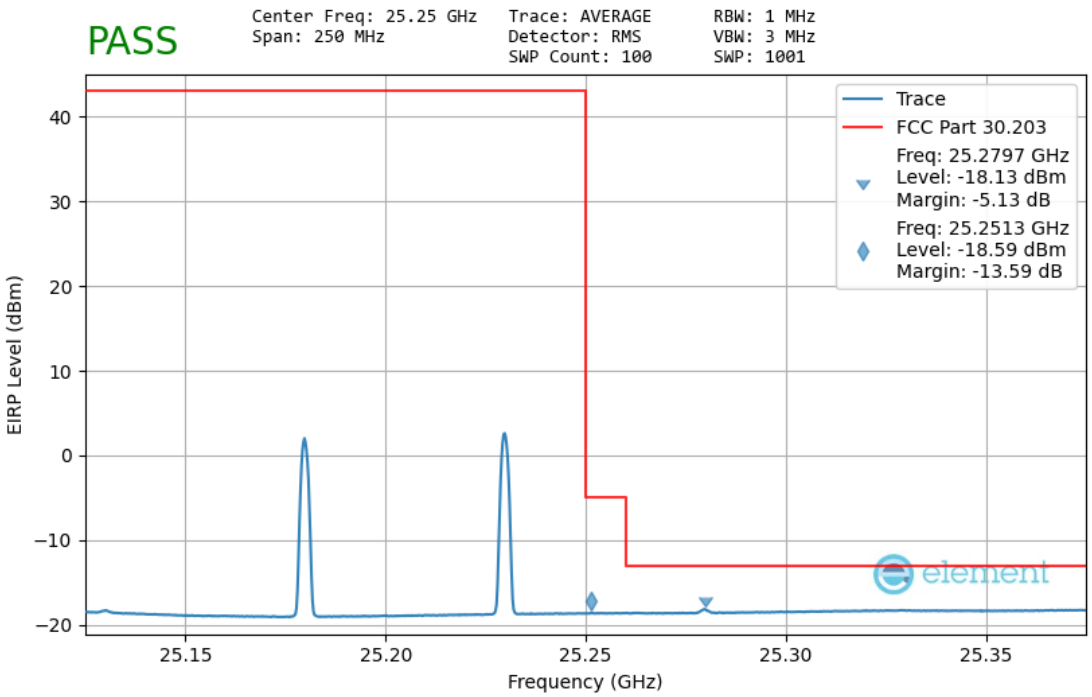


Plot 7-281. Ant 2 Lower Band Edge- (50MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-282.Ant 2 Upper Band Edge -TRP (50MHz-2CC – CP-OFDM QPSK 1 RB)

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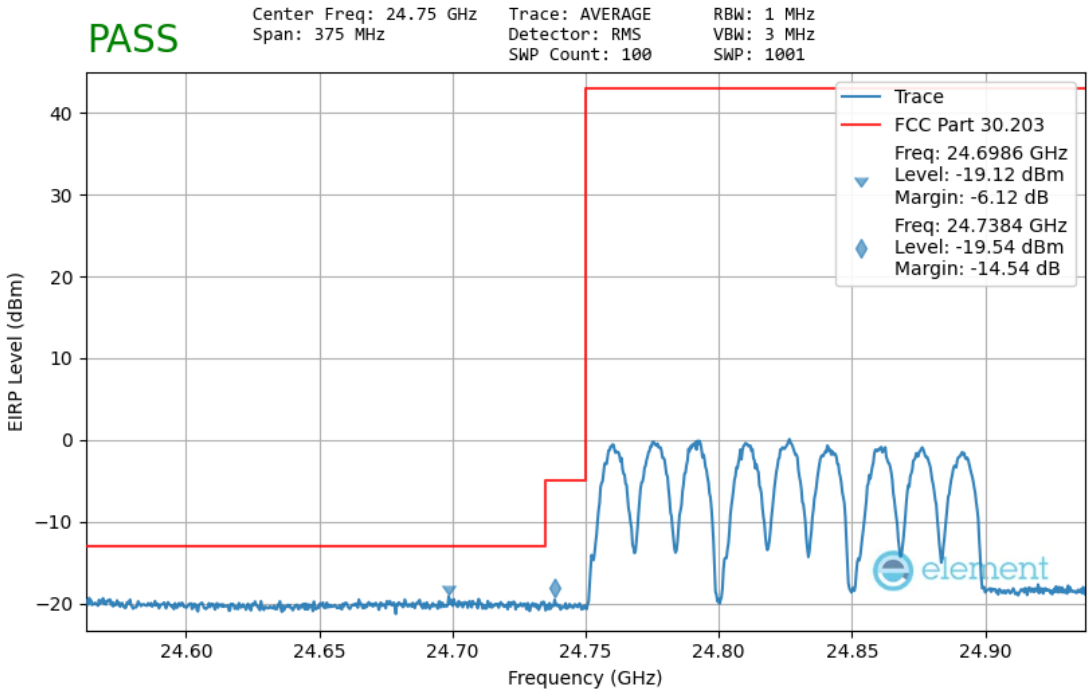
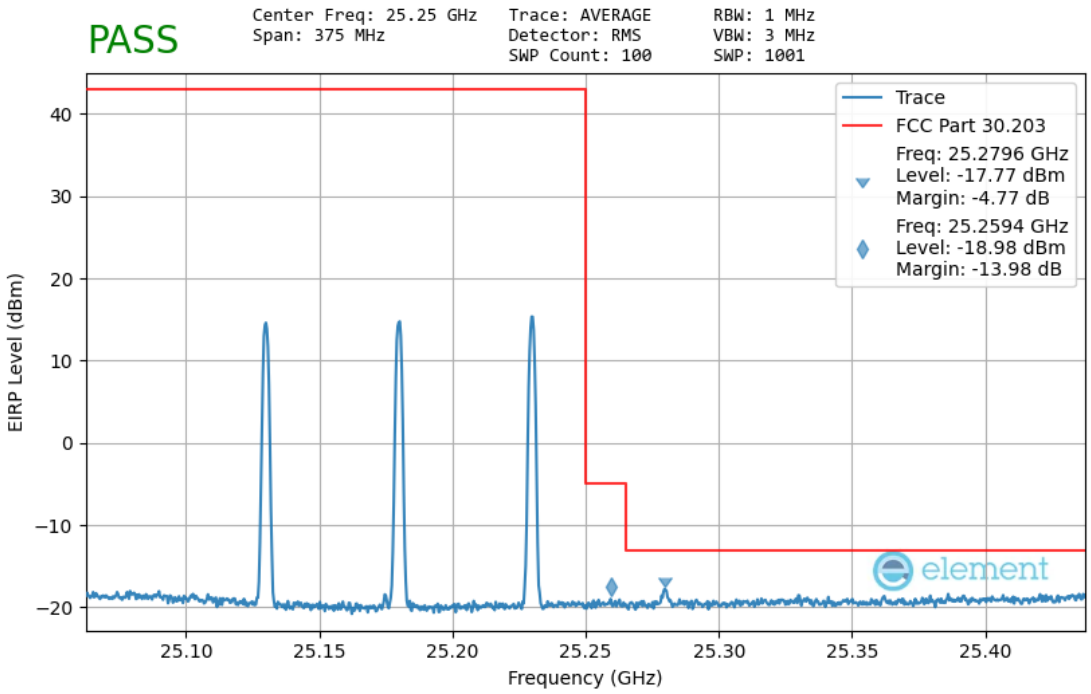


Plot 7-283. Ant 2 Lower Band Edge- (50MHz-3CC – DFT-s-OFDM BPSK Full RB)



Plot 7-284.Ant 2 Upper Band Edge - (50MHz-3CC – CP-OFDM QPSK 1 RB)

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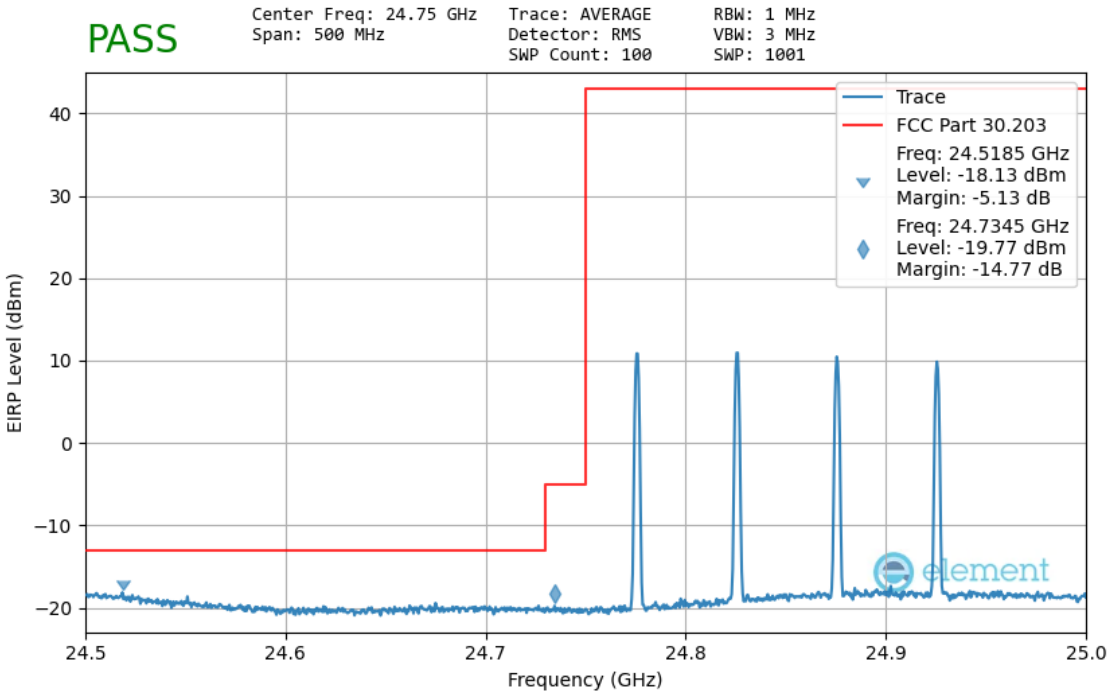
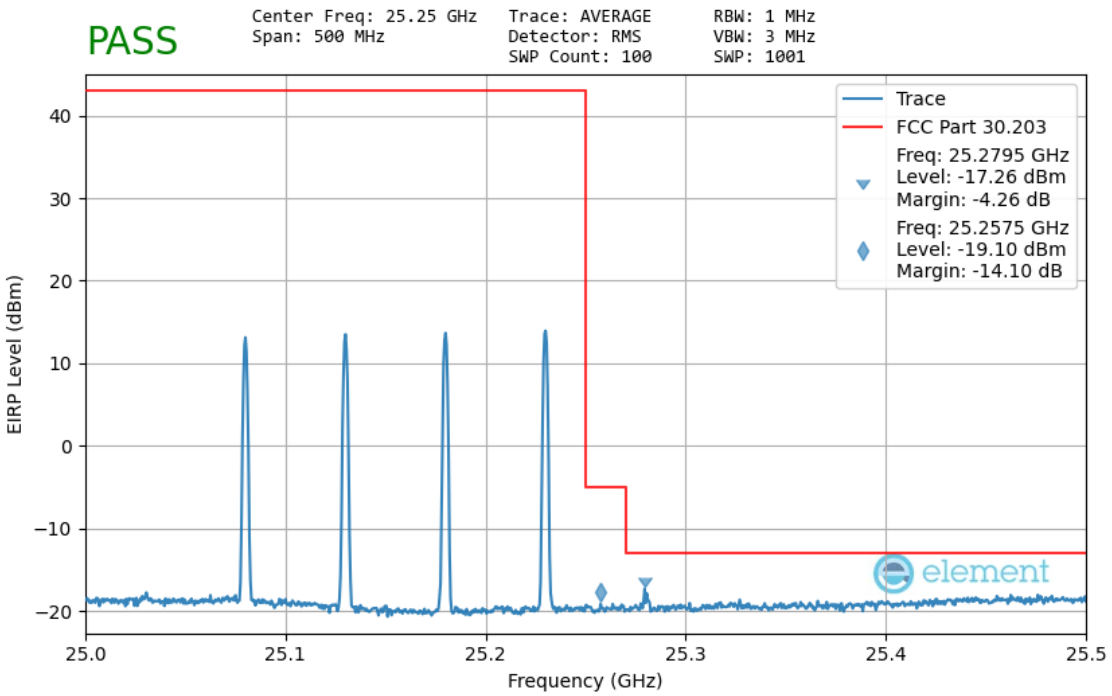


Plot 7-285. Ant 2 Lower Band Edge- (50MHz-4CC – DFT-s-OFDM QPSK 1 RB)



Plot 7-286.Ant 2 Upper Band Edge -(50MHz-4CC – DFT-s-OFDM QPSK 1 RB)

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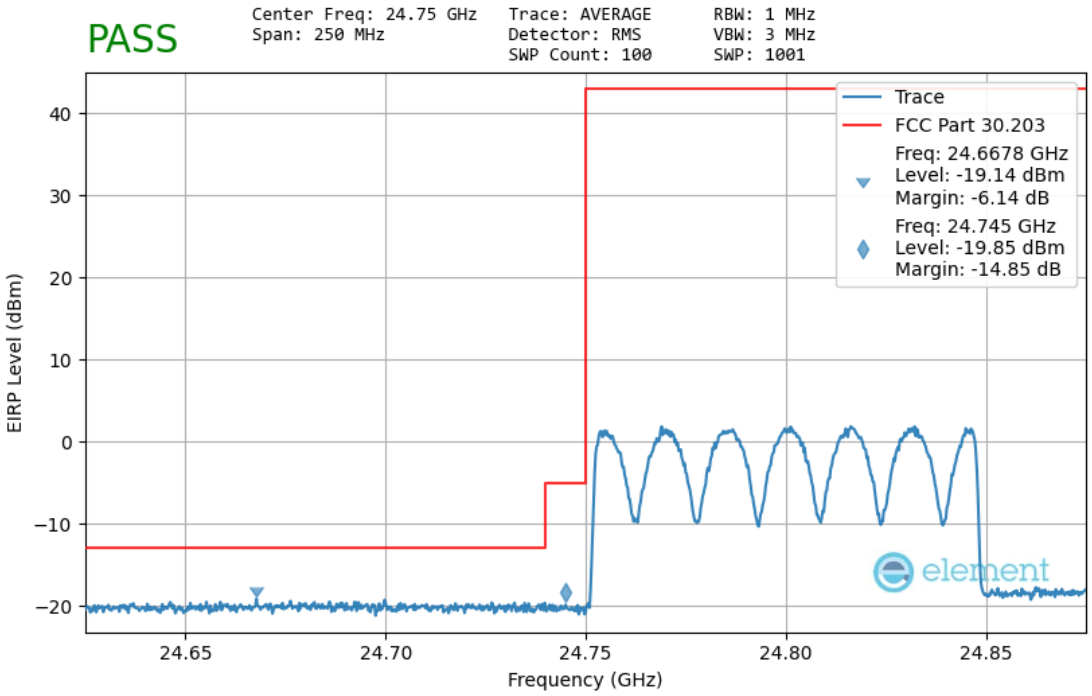
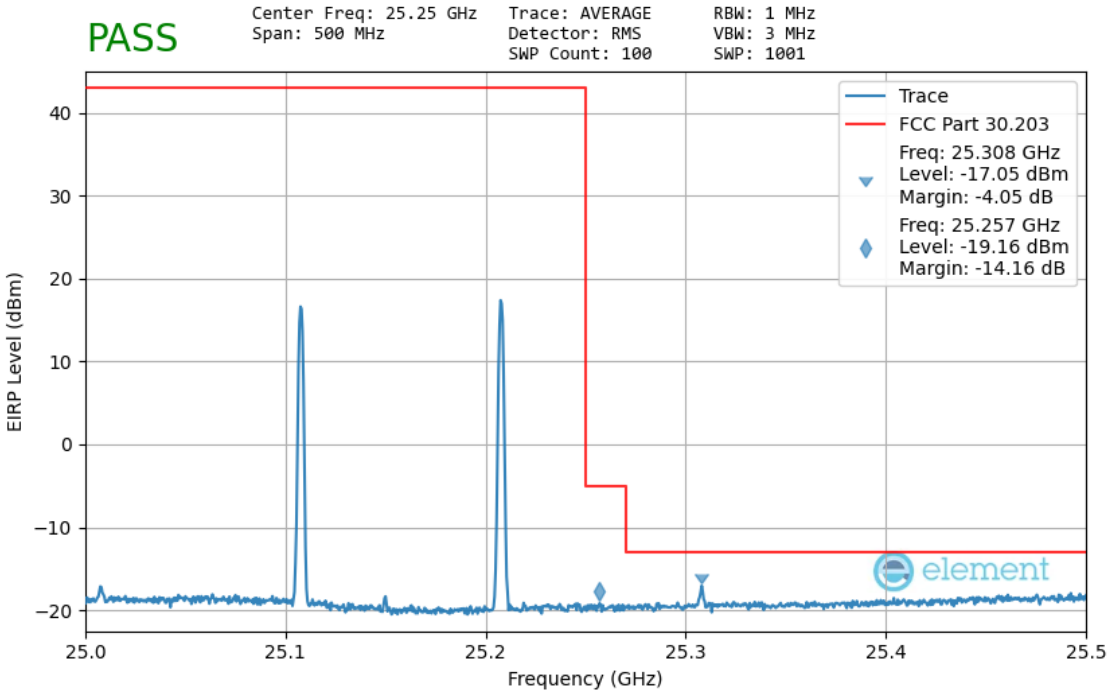


Plot 7-287.Ant 2 Lower Band Edge (100MHz-1CC – CP -OFDM QPSK Full RB)



Plot 7-288.Ant 2 Upper Band Edge (100MHz-1CC – CP-OFDM QPSK Full RB)

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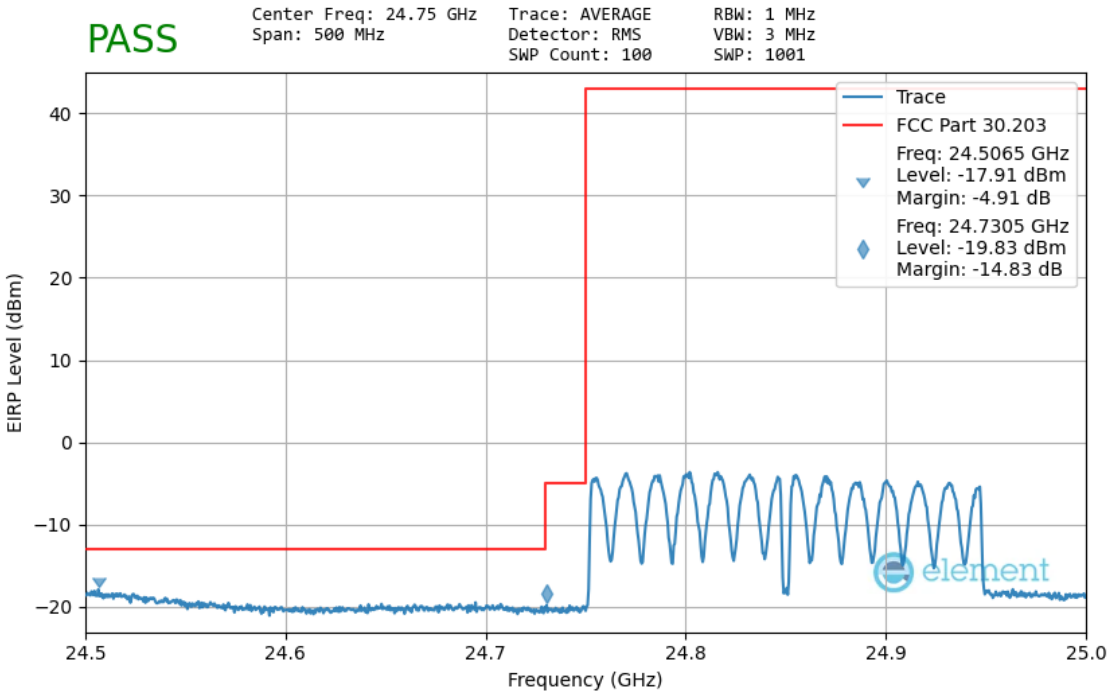
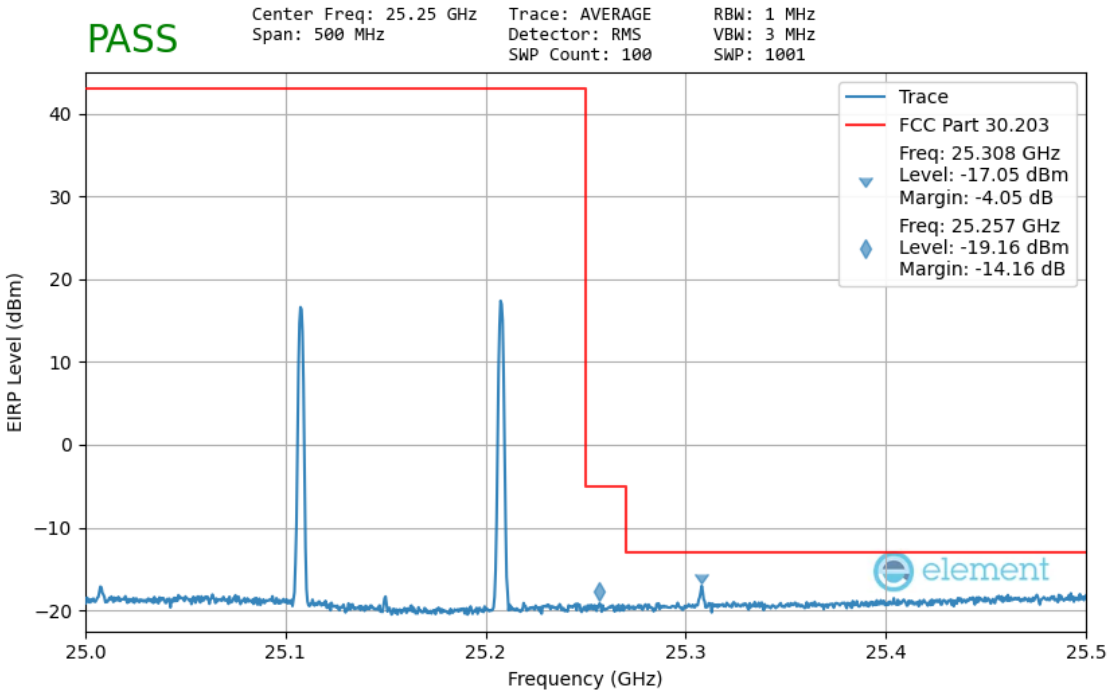


Plot 7-289.Ant 2 Lower Band Edge - (100MHz-2CC – CP-OFDM QPSK Full RB)



Plot 7-290.Ant 2 Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

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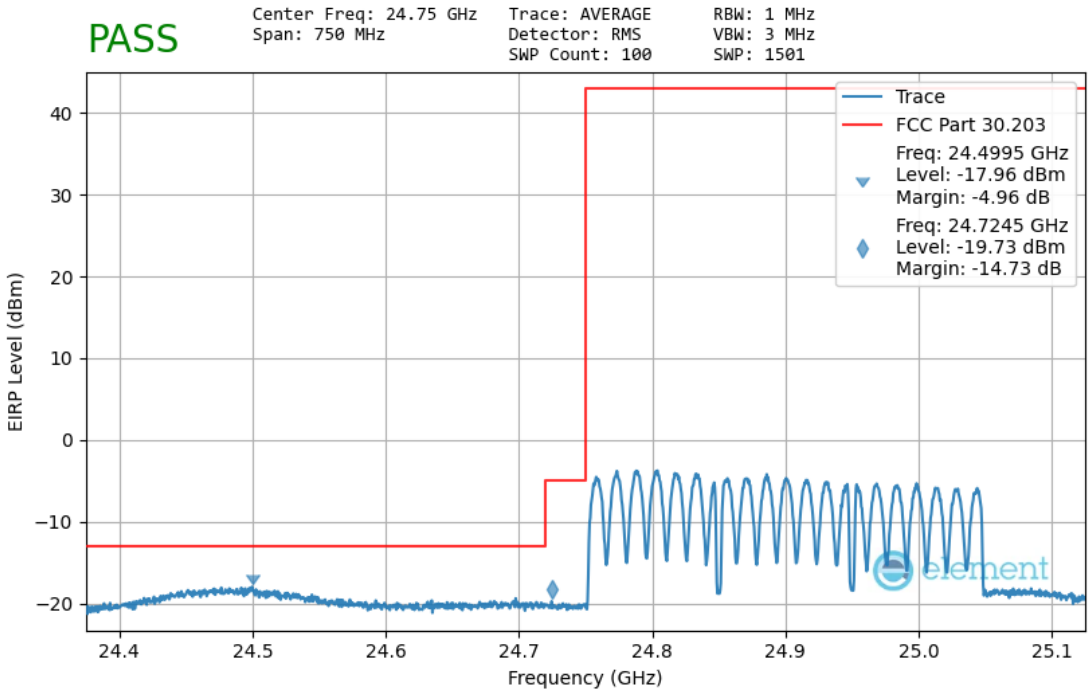
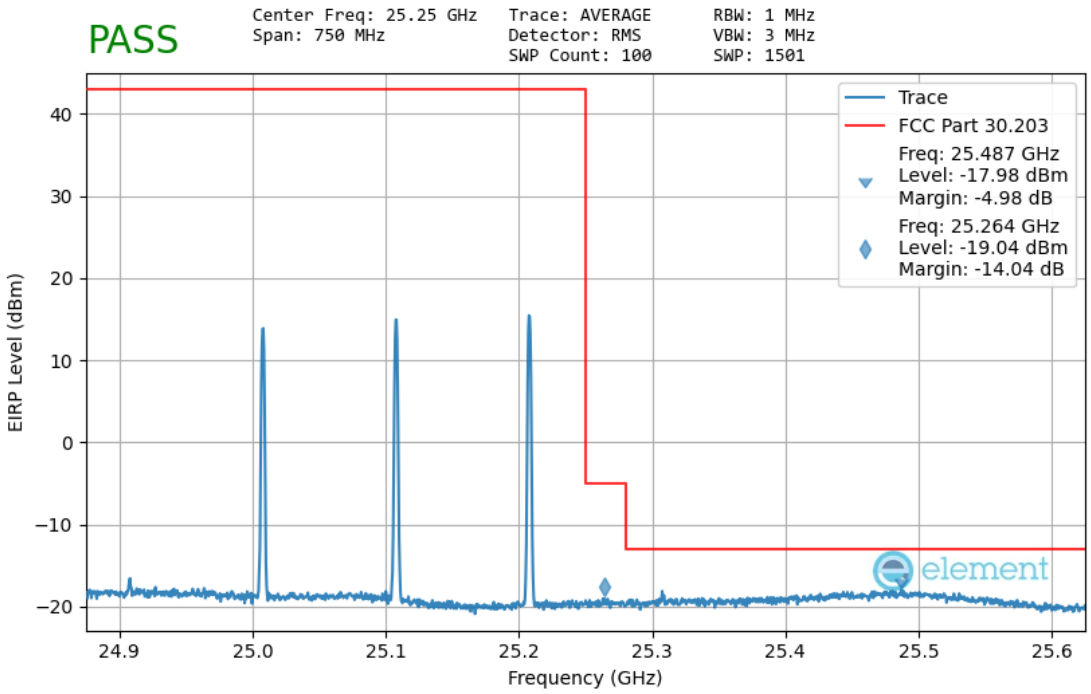


Plot 7-291.Ant 2 Lower Band Edge (100MHz-3CC – CP-OFDM QPSK Full RB)



Plot 7-292.Ant 2 Upper Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

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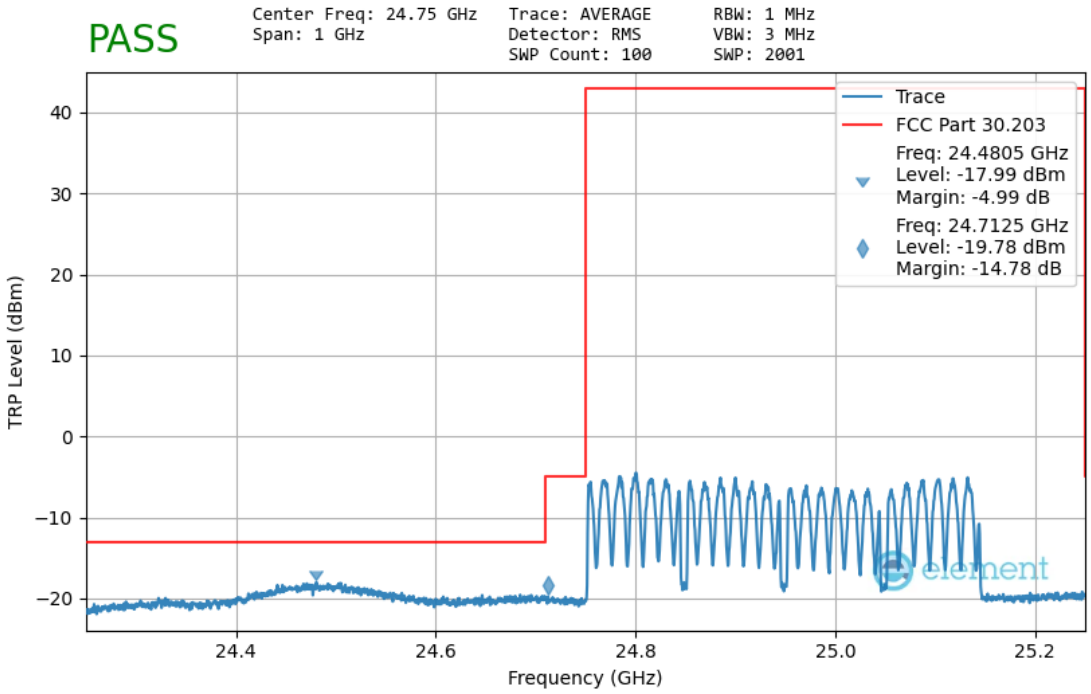
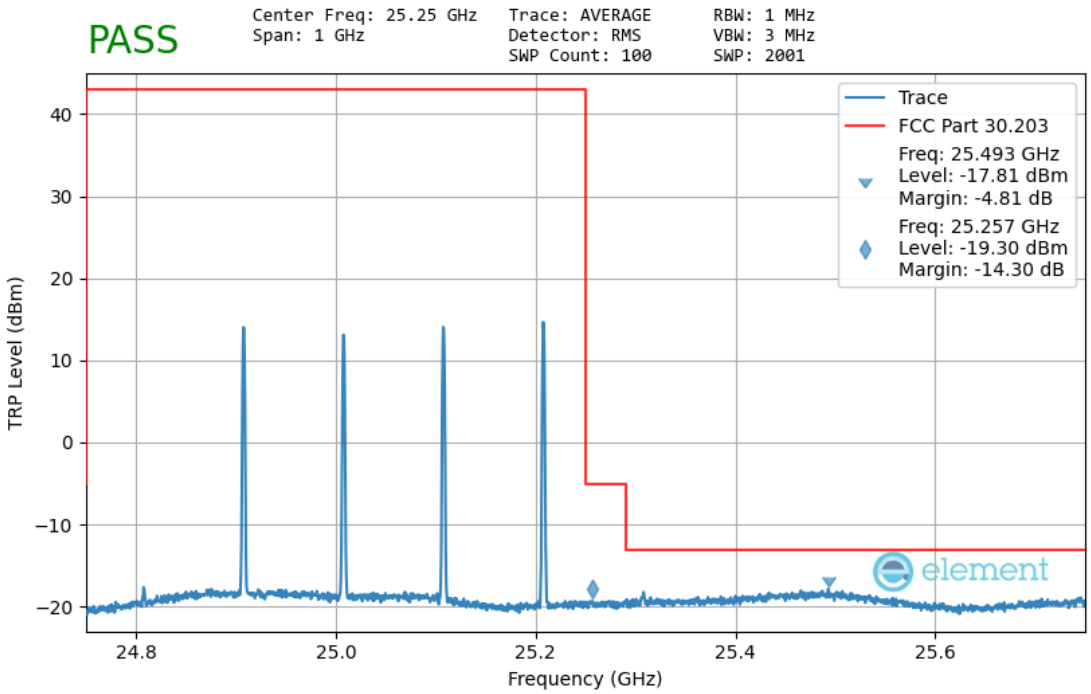


Plot 7-293.Ant 2 Lower Band Edge (100MHz-4CC – DFT-s-OFDM π/2 BPSK Full RB)



Plot 7-294.Ant 2 Upper Band Edge (100MHz-4CC – CP-OFDM QPSK 1 RB)

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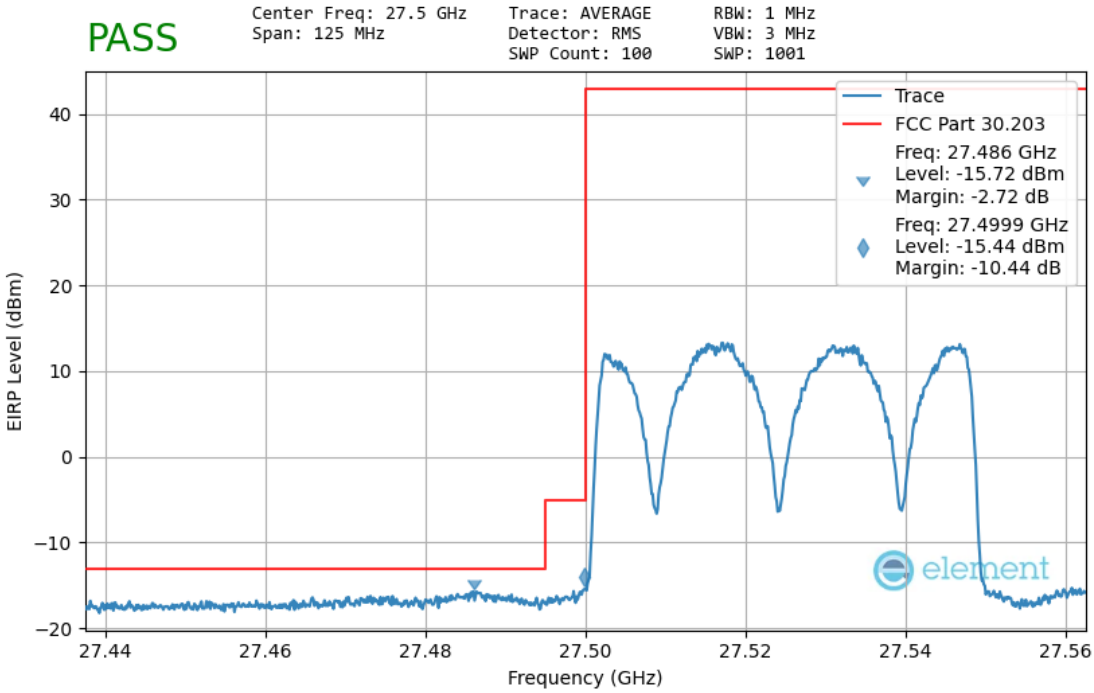
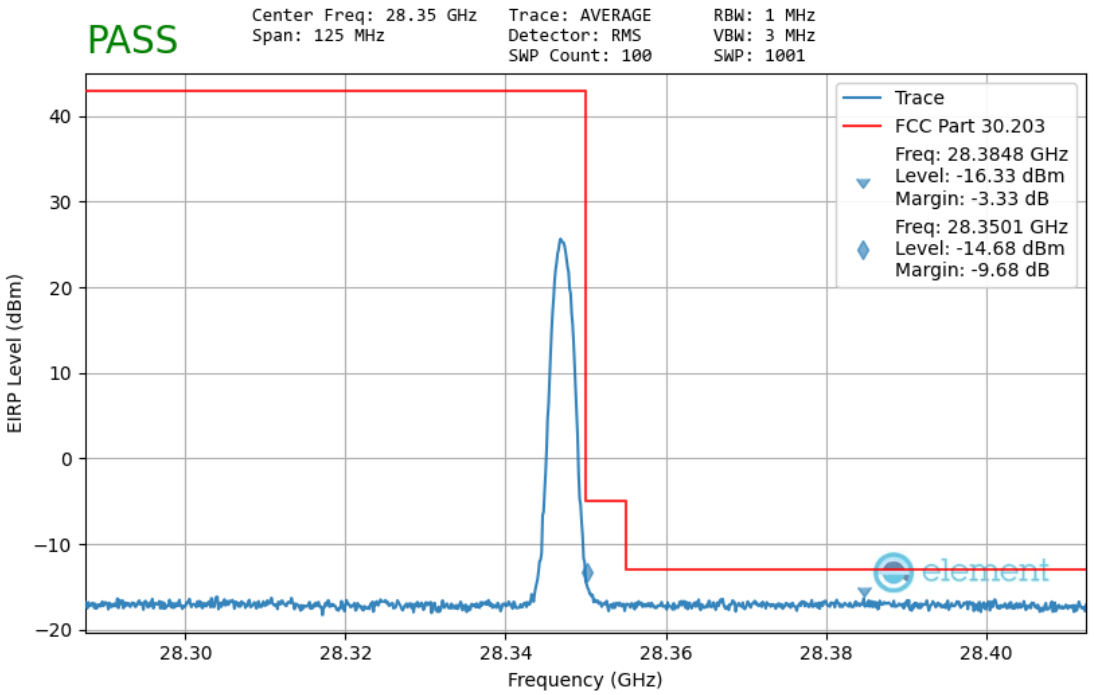
Band n261 – Worst Case



Plot 7-295. Ant 1 Lower Band Edge - (50MHz-1CC – DFT-s-OFDM QPSK Full RB)



Plot 7-296.Ant 1 Upper Band Edge - (50MHz-1CC – DFT-s-OFDM π/2 BPSK 1 RB)

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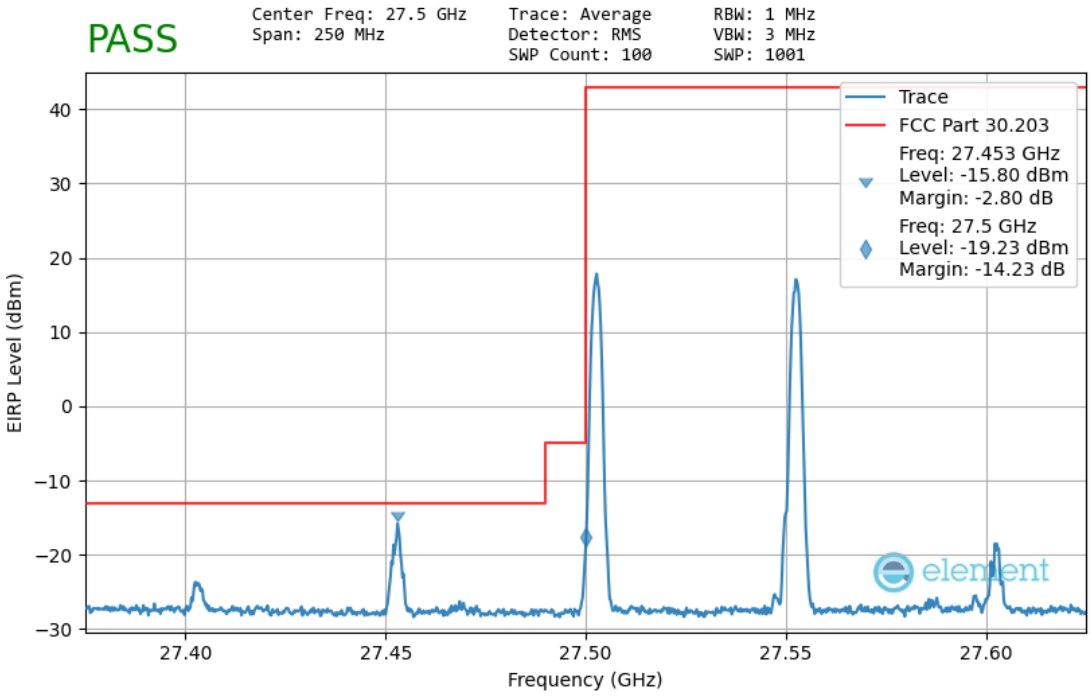
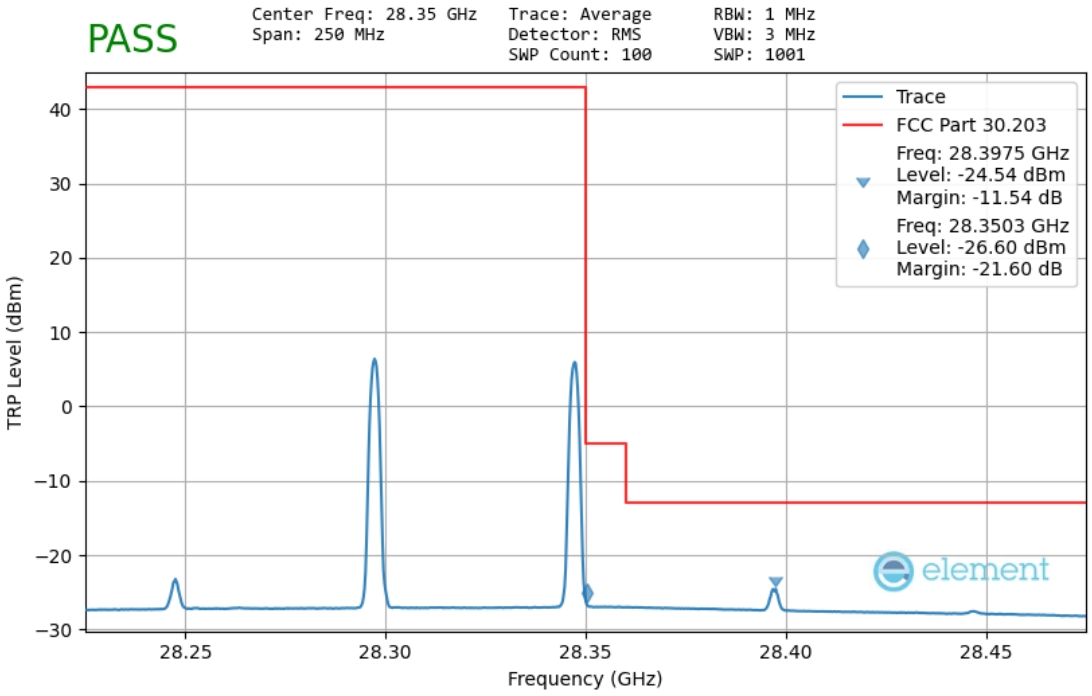


Plot 7-297. Ant 1 Lower Band Edge - (50MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-298.Ant 1 Upper Band Edge -TRP (50MHz-2CC – CP-OFDM QPSK 1 RB)

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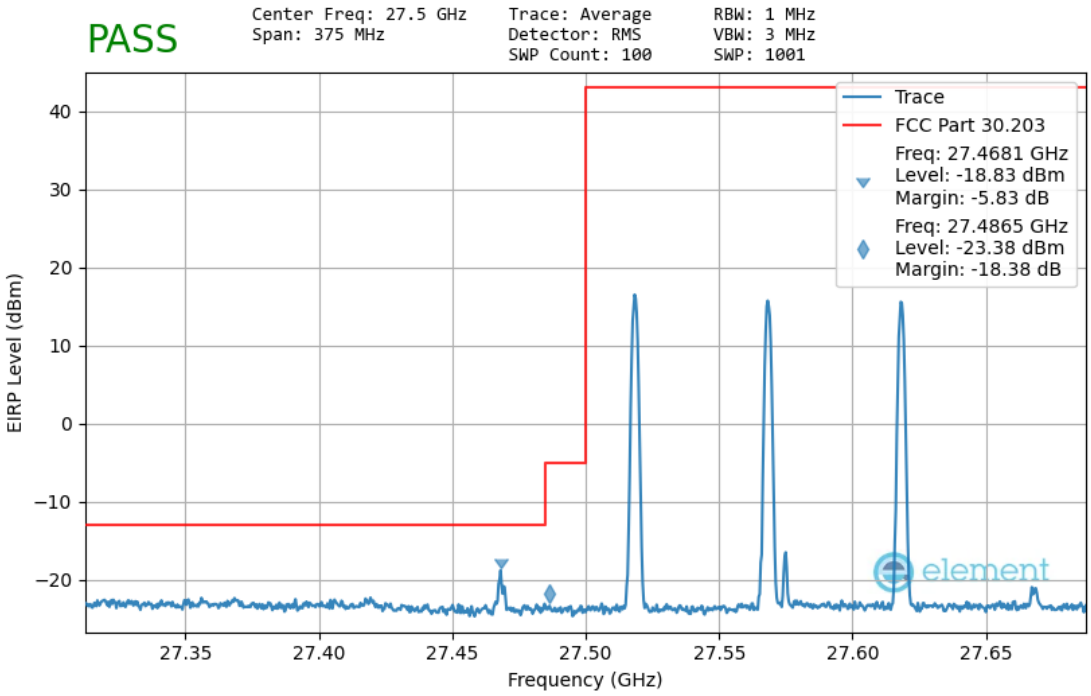
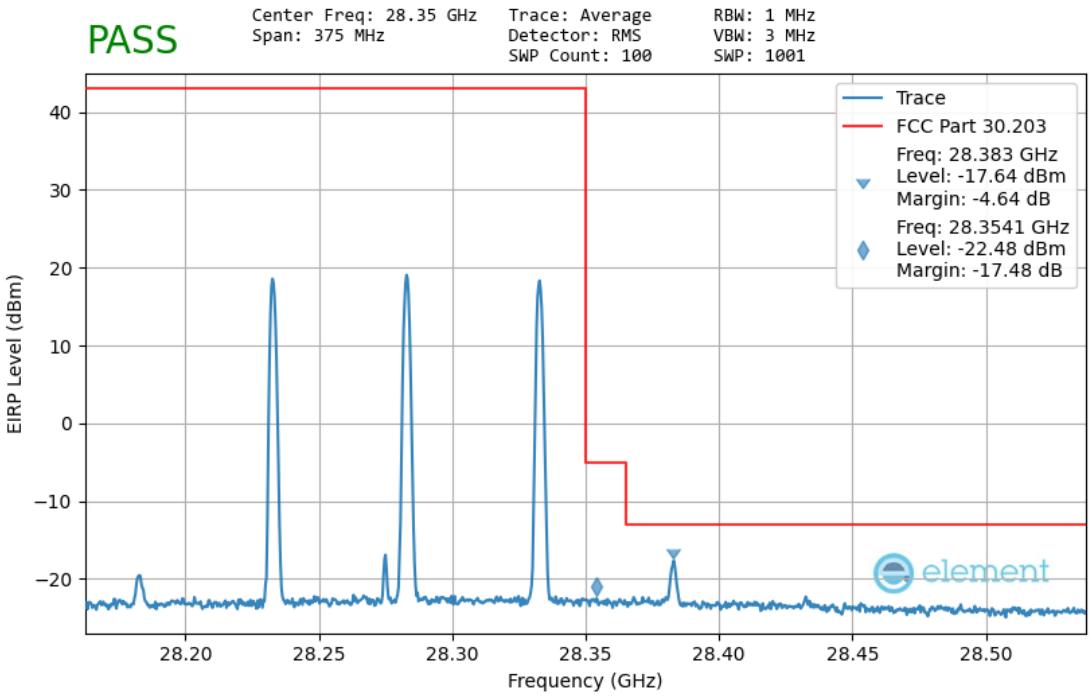


Plot 7-299. Ant 1 Lower Band Edge - (50MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-300.Ant 1 Upper Band Edge - (50MHz-3CC – DFT-s-OFDM π/2 BPSK 1 RB)

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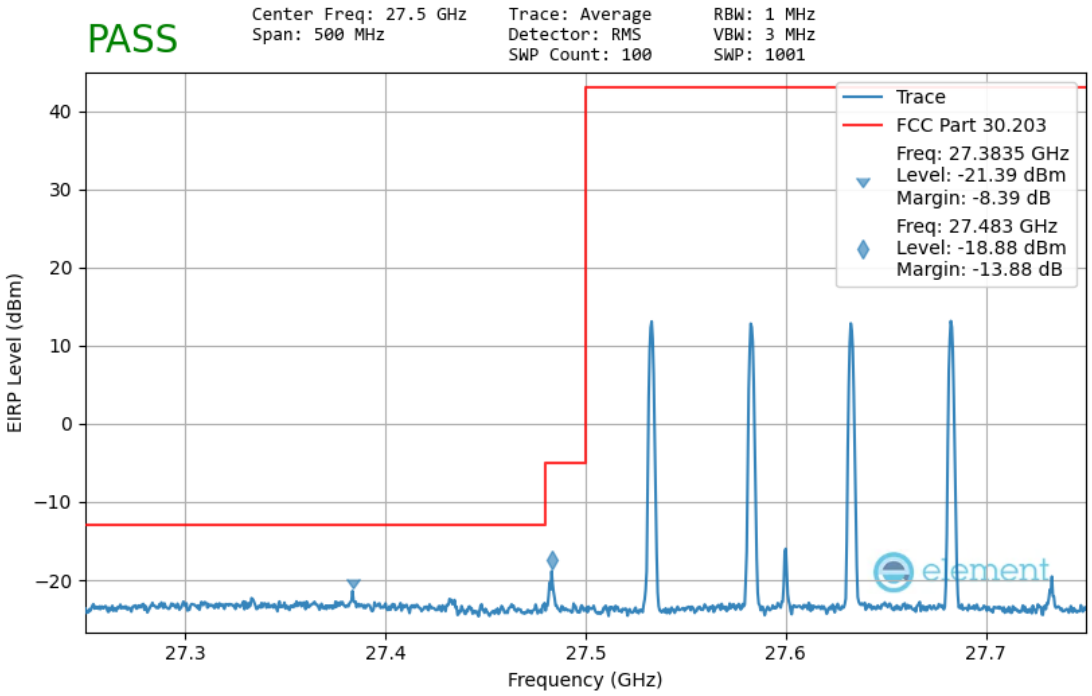
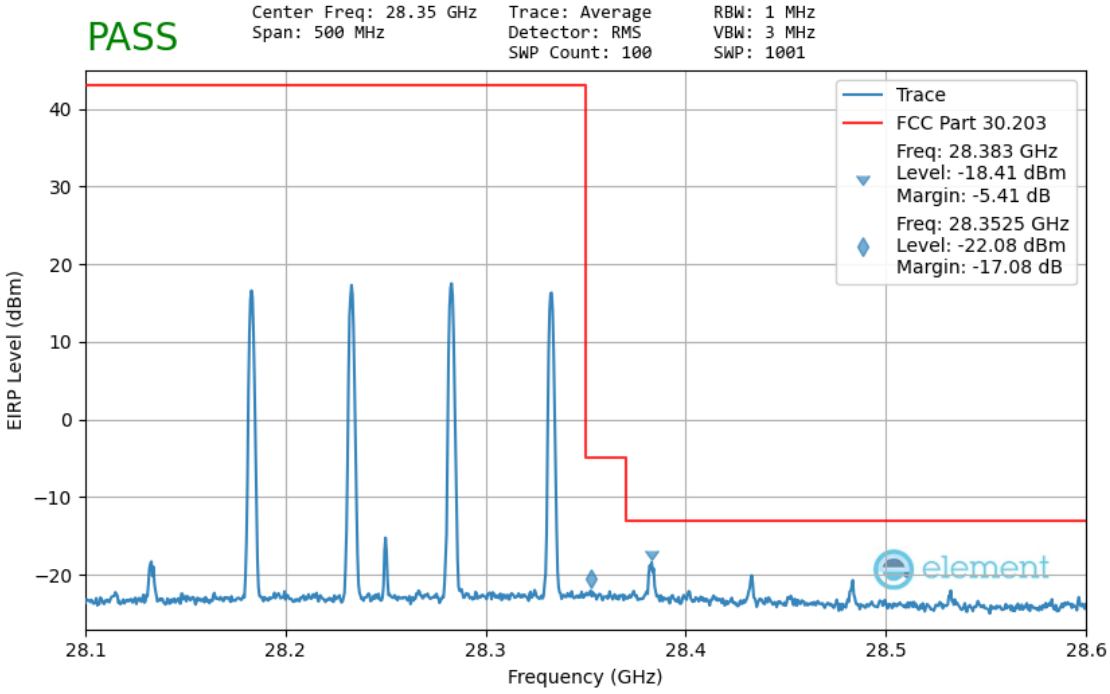


Plot 7-301. Ant 1 Lower Band Edge - (50MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-302.Ant 1 Upper Band Edge - (50MHz-4CC – CP-OFDM QPSK 1 RB)

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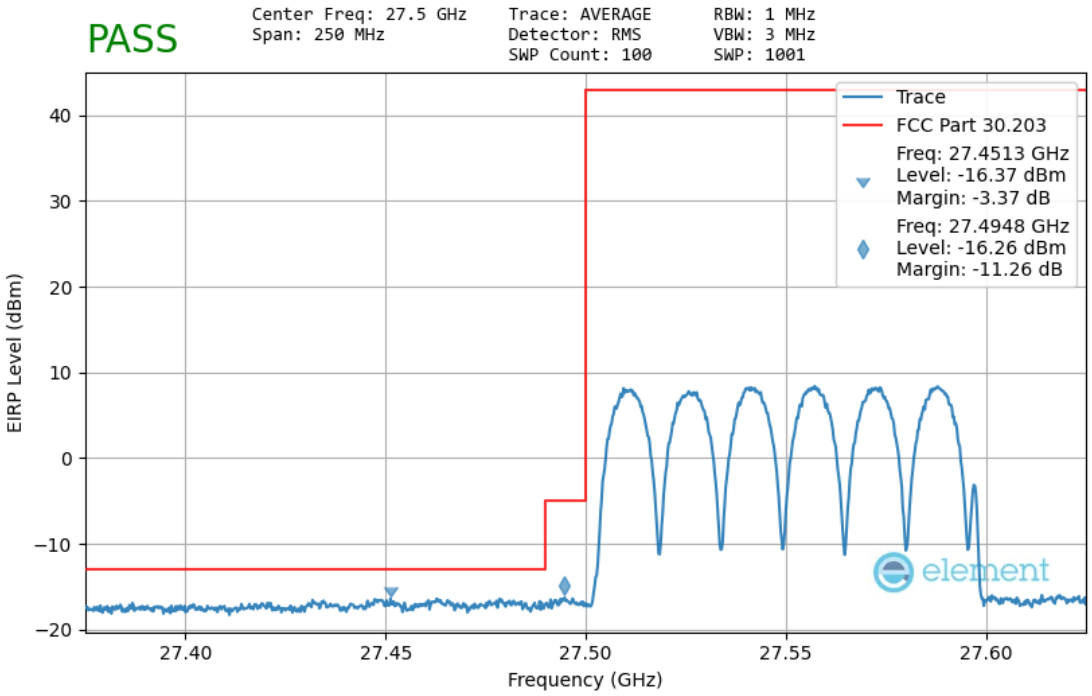
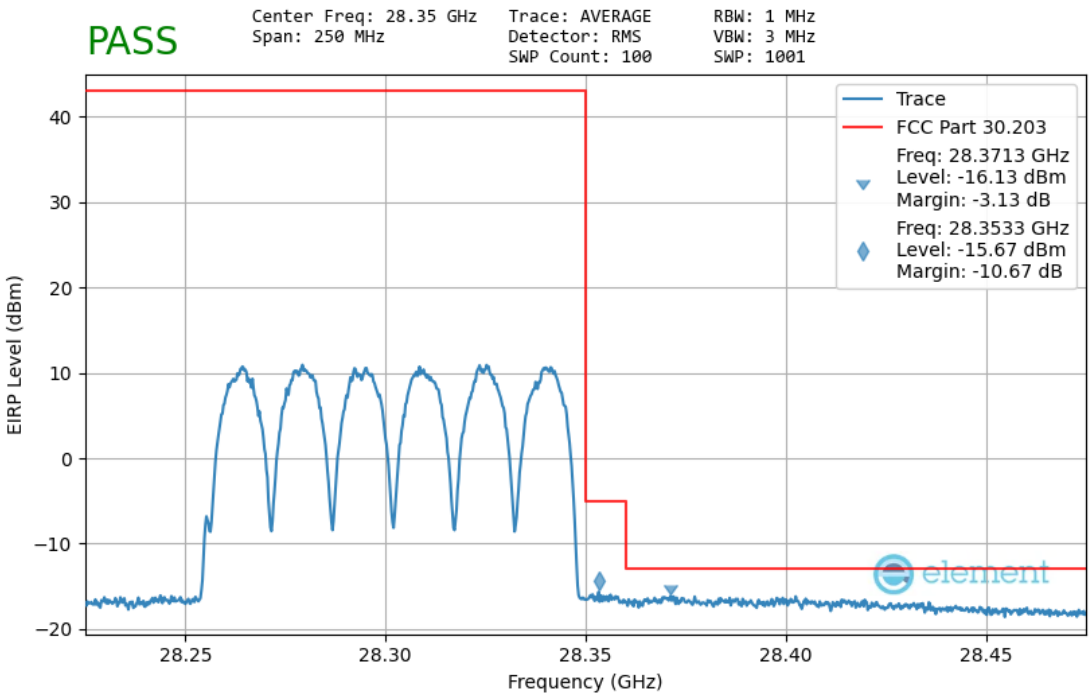


Plot 7-303.Ant 1 Lower Band Edge- (100MHz-1CC – CP-OFDM QPSK Full RB)



Plot 7-304.Ant 1 Upper Band Edge- (100MHz-1CC – DFT-s-OFDM π/2 BPSK Full RB)

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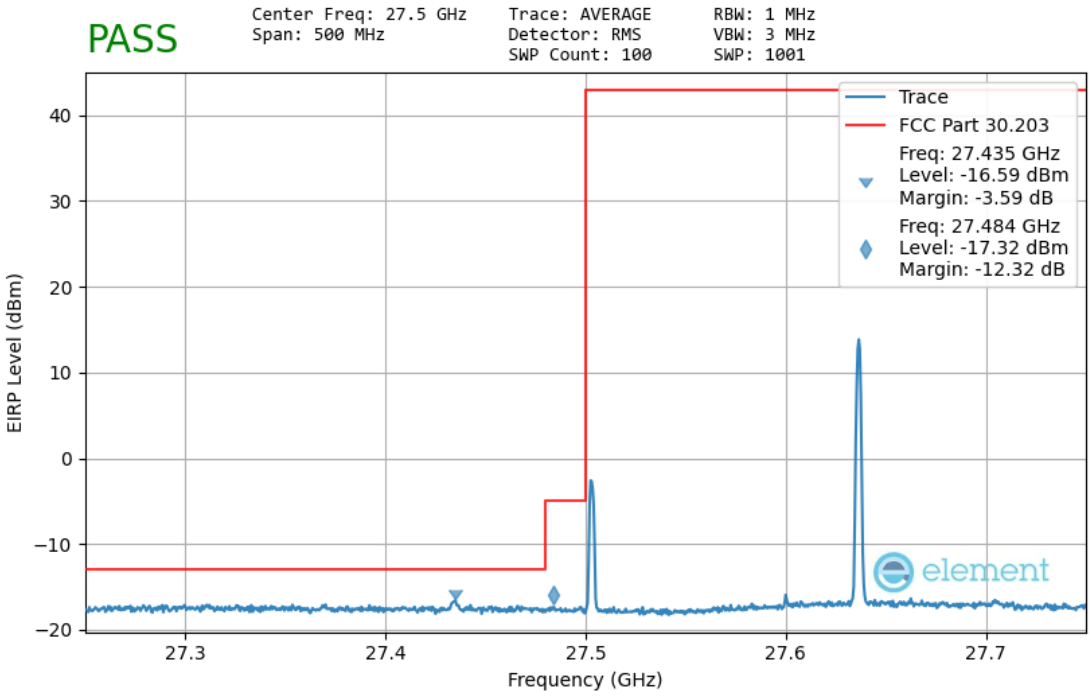
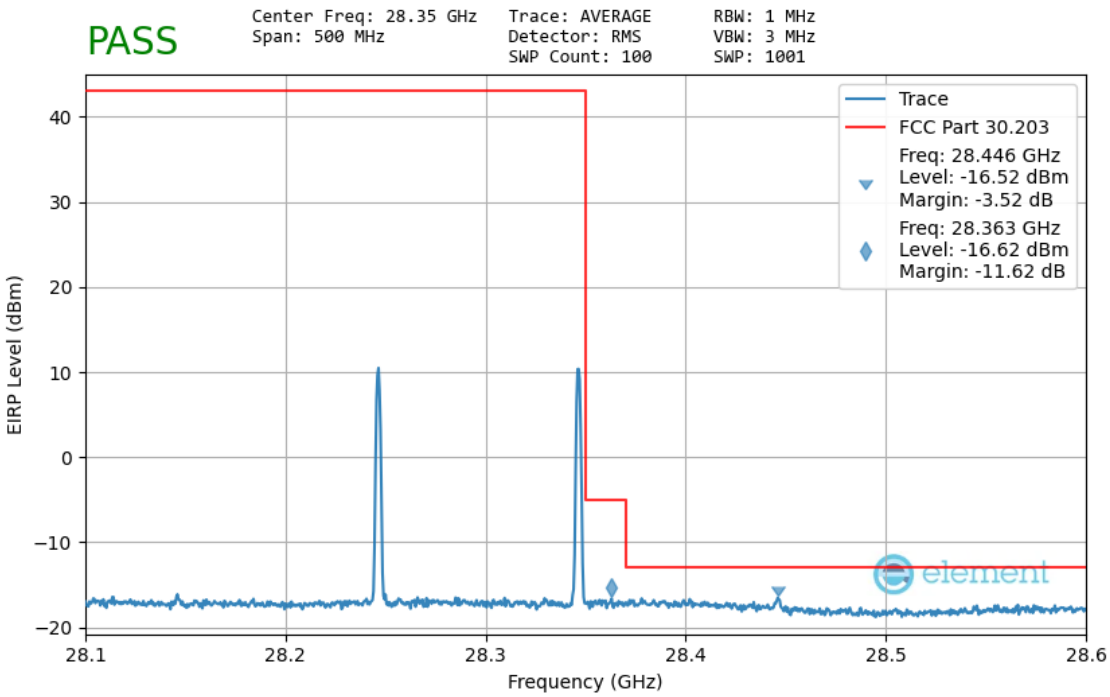


Plot 7-305.Ant 1 Lower Band Edge – (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)



Plot 7-306.Ant 1 Upper Band Edge - (100MHz-2CC – CP-OFDM QPSK 1 RB)

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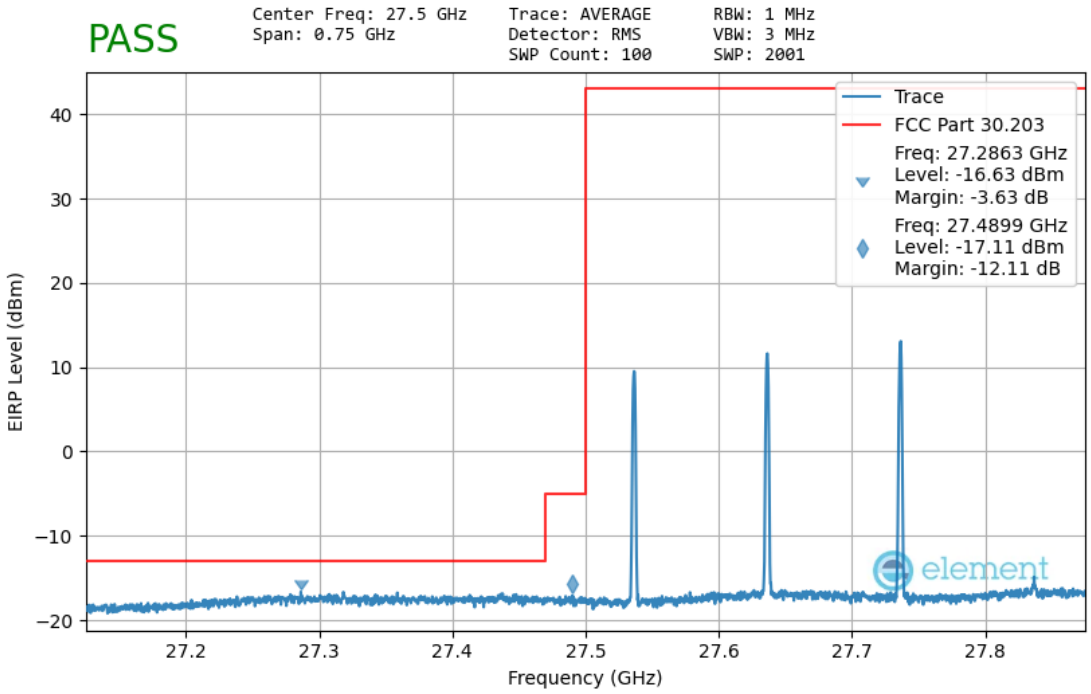
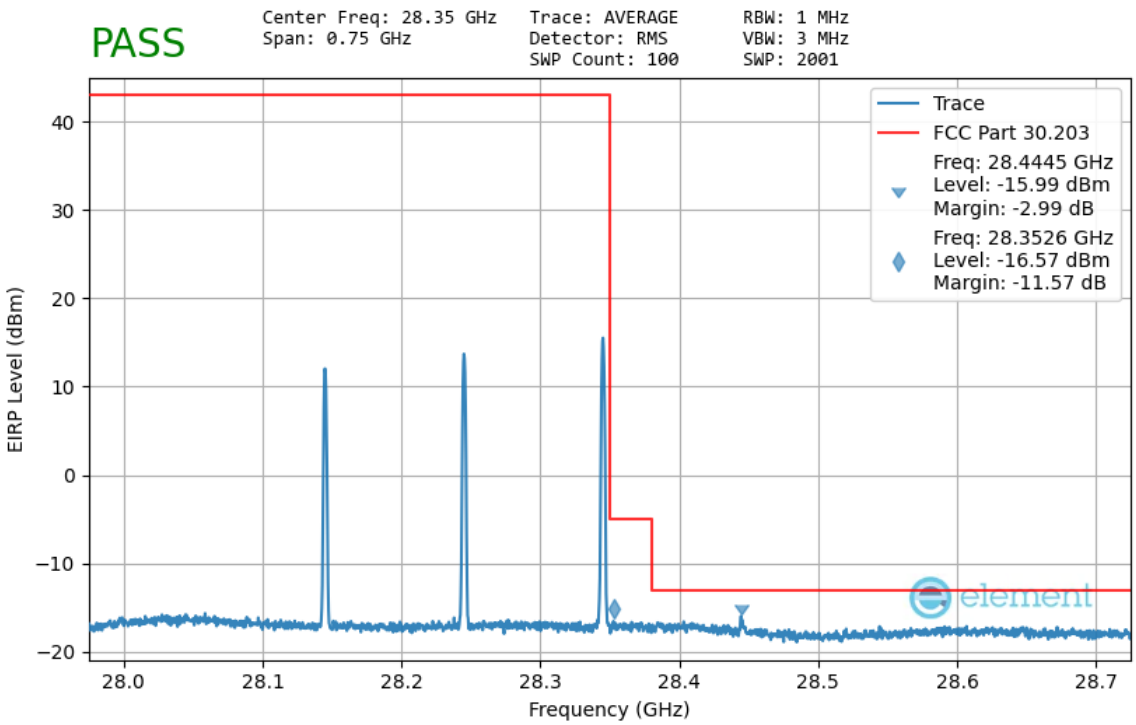


Plot 7-307.Ant 1 Lower Band Edge - (100MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-308.Ant 1 Upper Band Edge (100MHz-3CC –CP-OFDM QPSK 1 RB)

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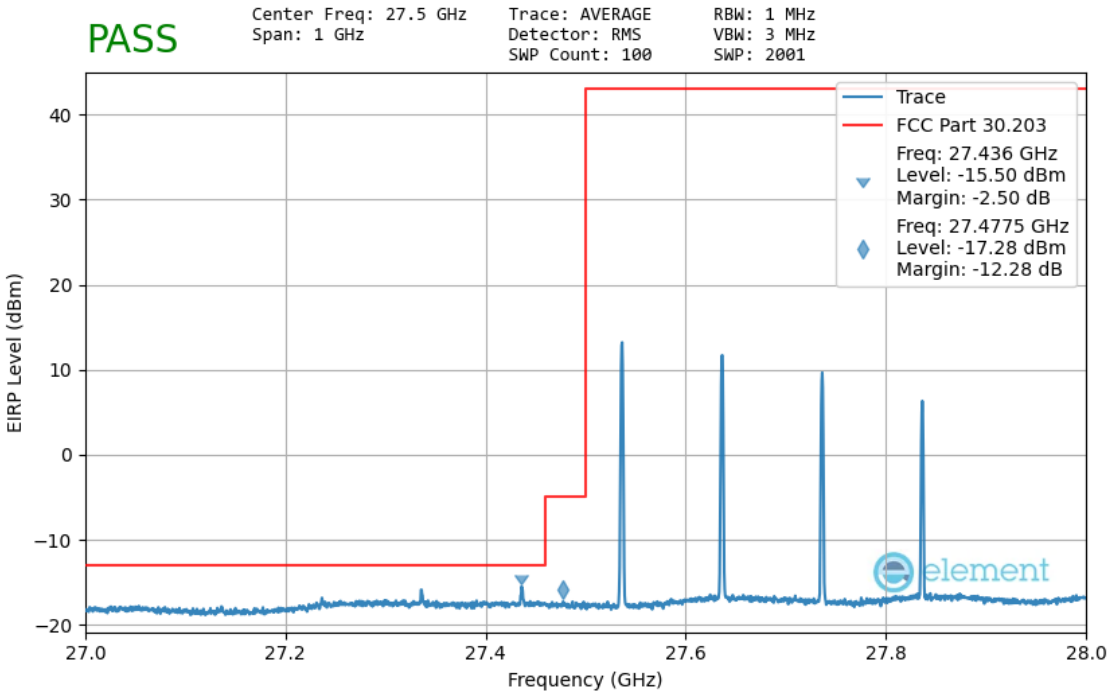
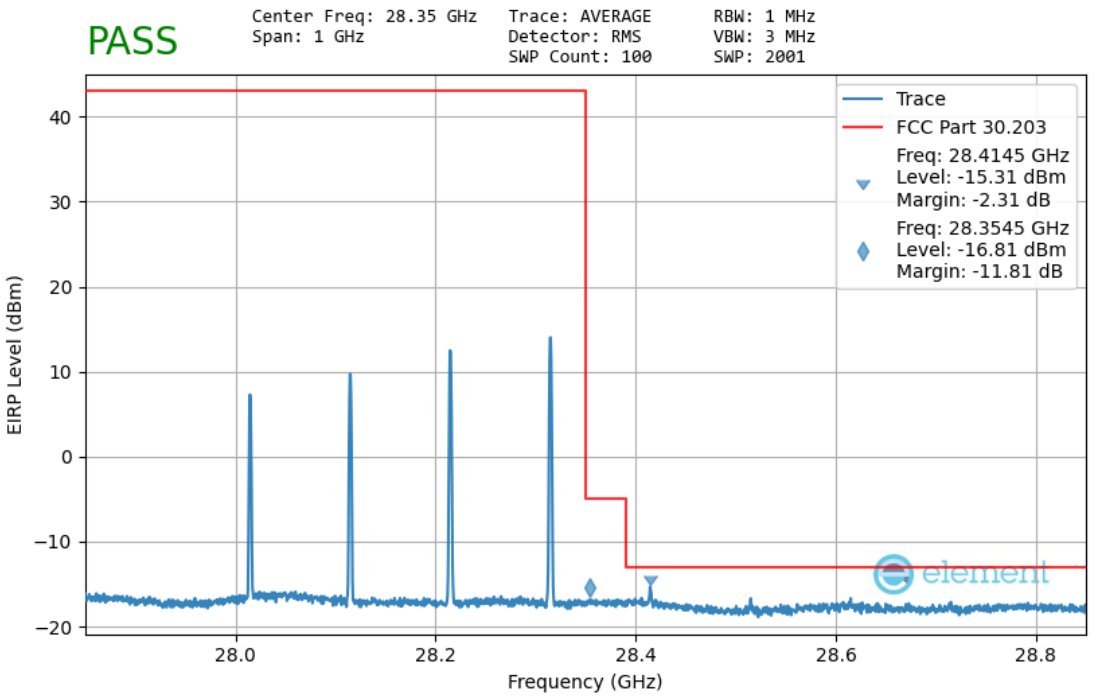


Plot 7-309.Ant 1 Lower Band Edge - (100MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-310.Ant 1 Upper Band Edge (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)

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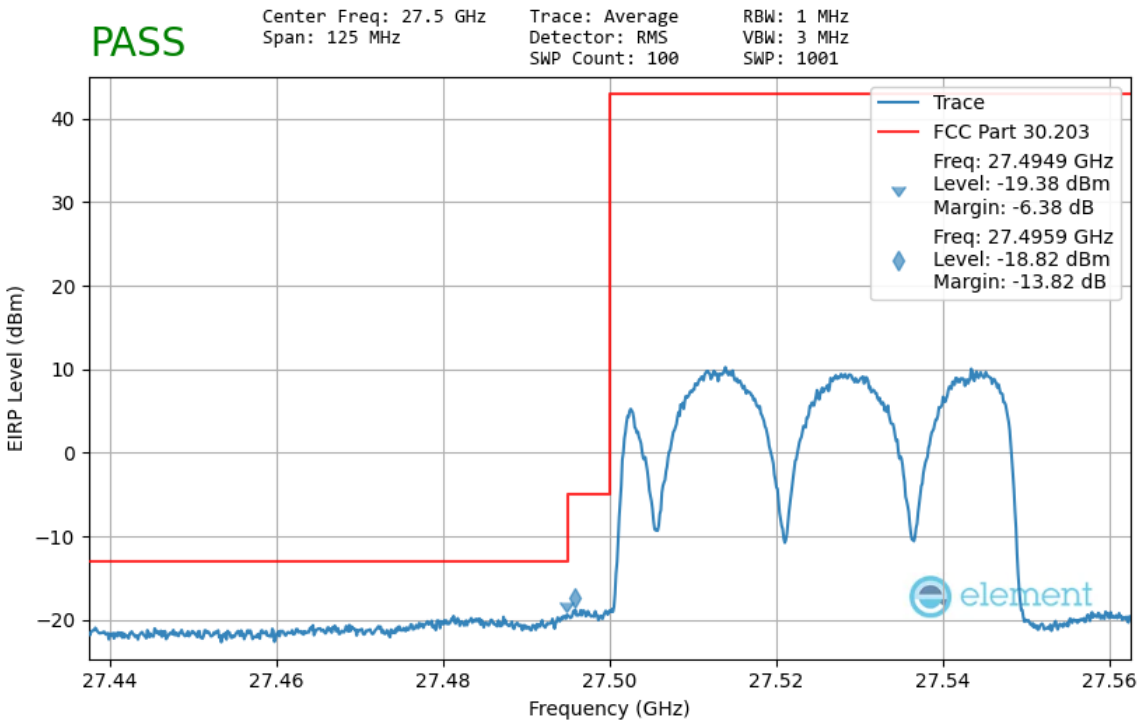
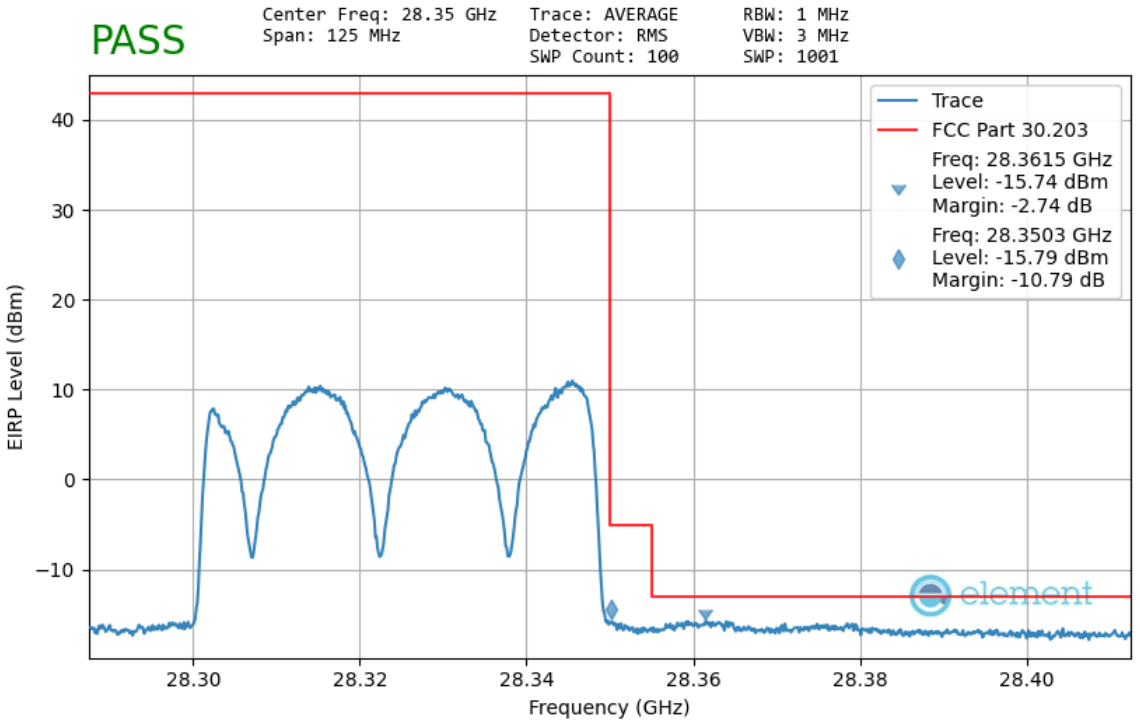


Plot 7-311. Ant 2 Lower Band Edge - TRP (50MHz-1CC – DFT-s-OFDM QPSK Full RB)



Plot 7-312.Ant 2 Upper Band Edge- (50MHz-1CC – DFT-s-OFDM QPSK Full RB)

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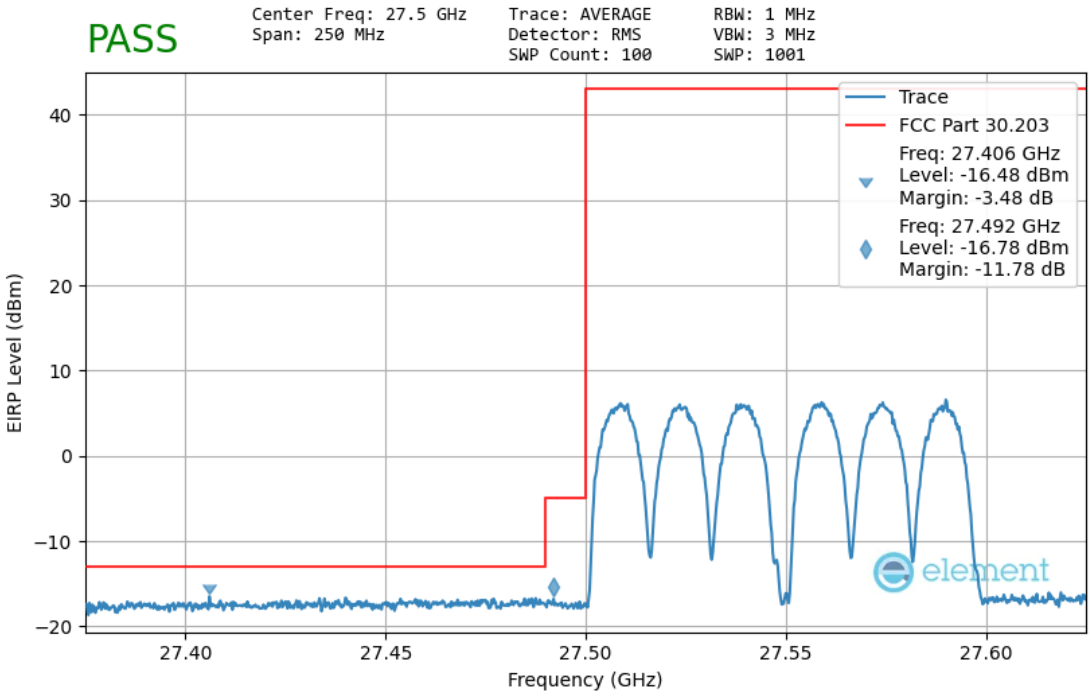
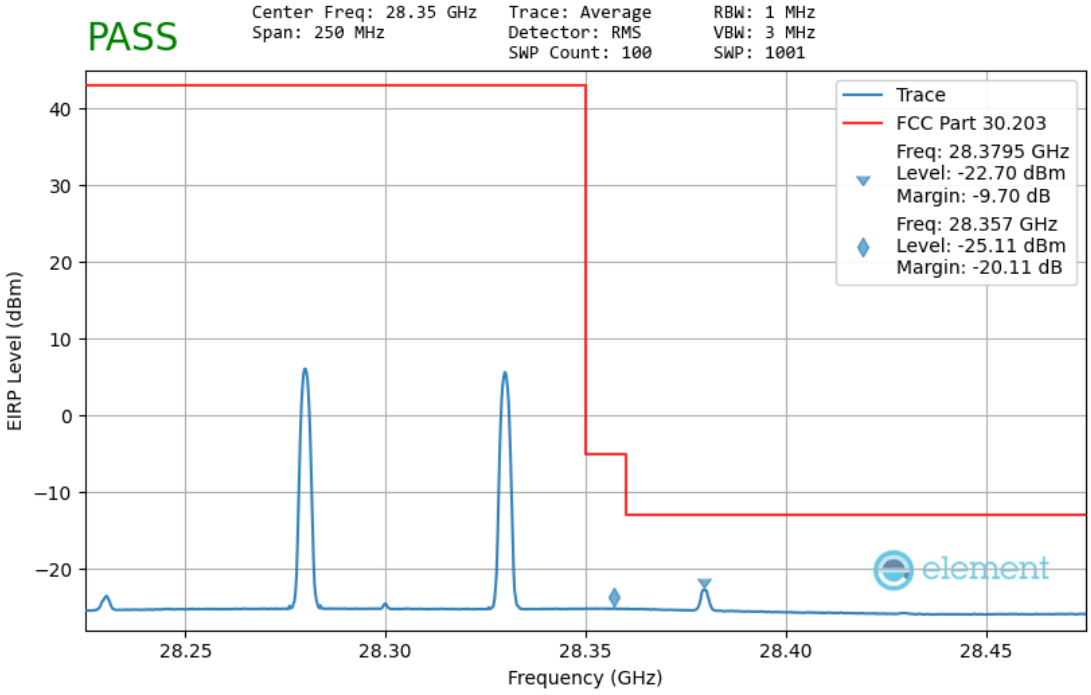


Plot 7-313. Ant 2 Lower Band Edge - (50MHz-2CC – CP-OFDM QPSK Full RB)



Plot 7-314.Ant 2 Upper Band Edge-TRP (50MHz-2CC – CP-OFDM QPSK 1 RB)

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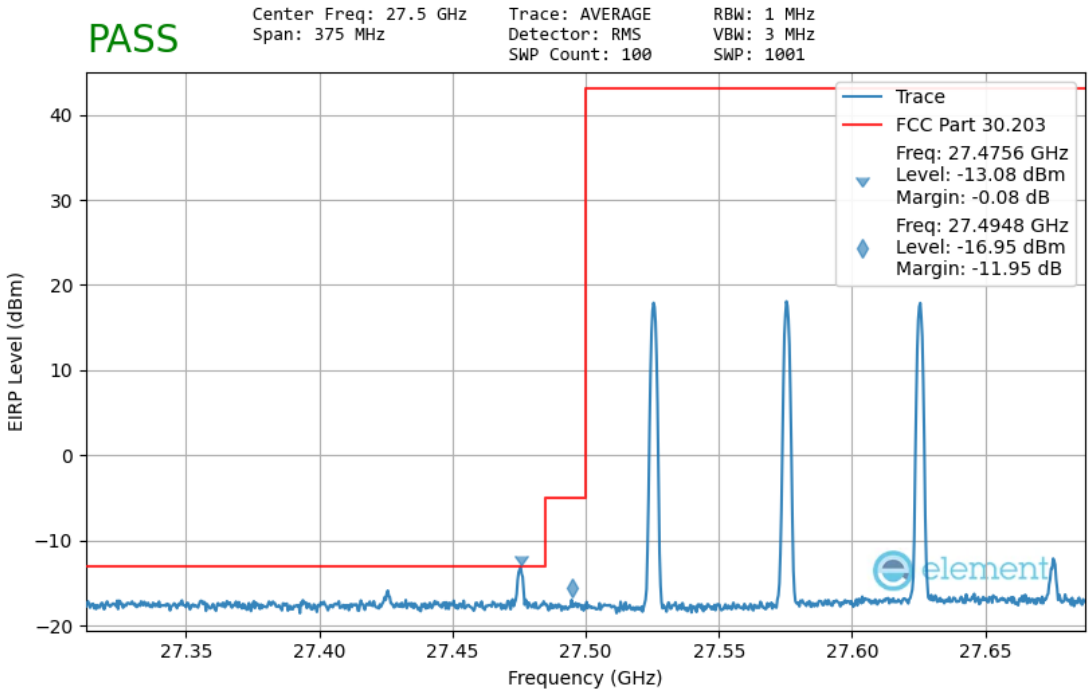
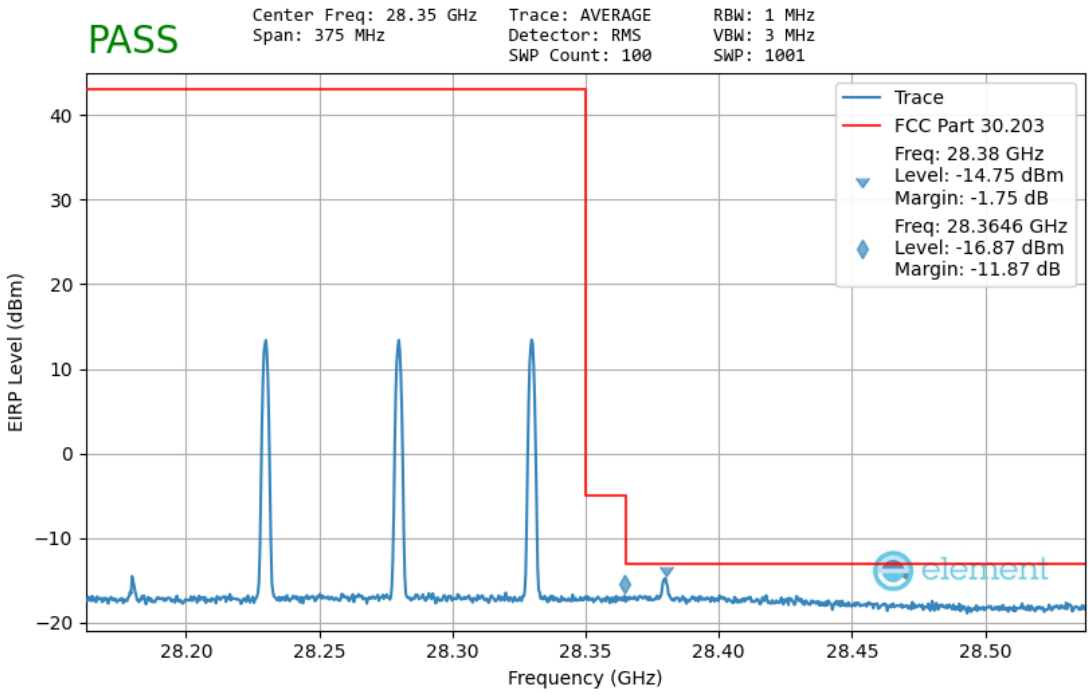


Plot 7-315. Ant 2 Lower Band Edge - (50MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-316.Ant 2 Upper Band Edge- (50MHz-3CC – CP-OFDM QPSK 1 RB)

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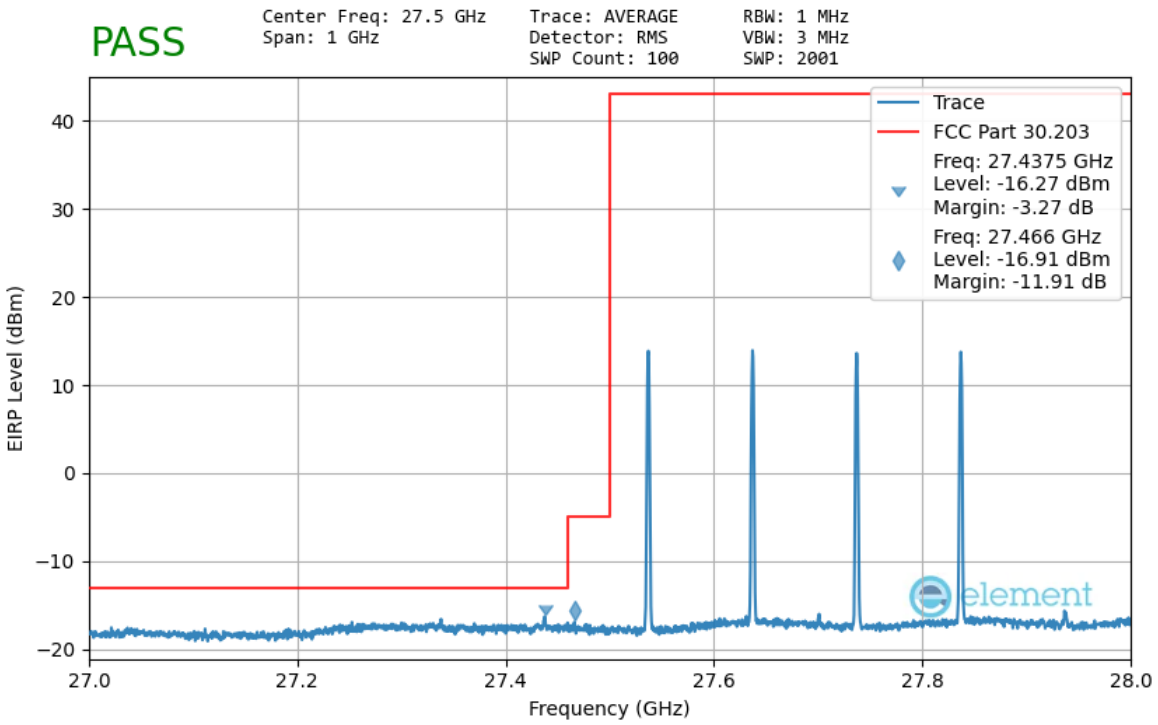
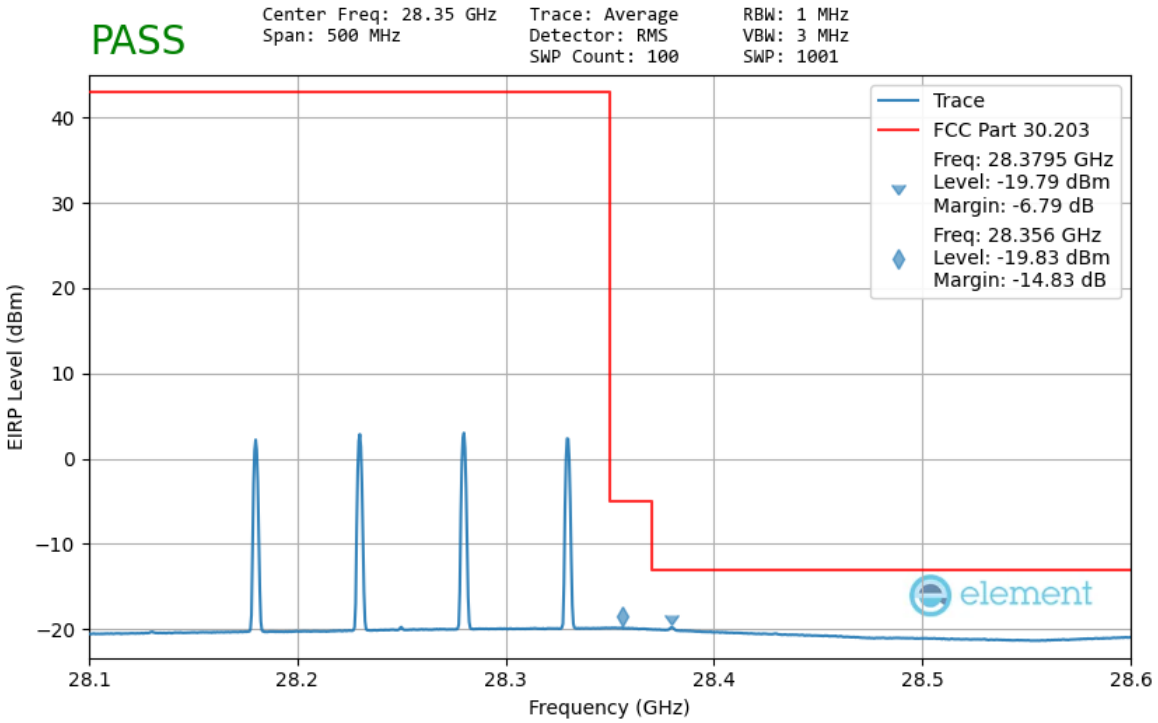


Plot 7-317. Ant 2 Lower Band Edge - (50MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-318.Ant 2 Upper Band Edge-TRP (50MHz-4CC – CP-OFDM QPSK 1 RB)

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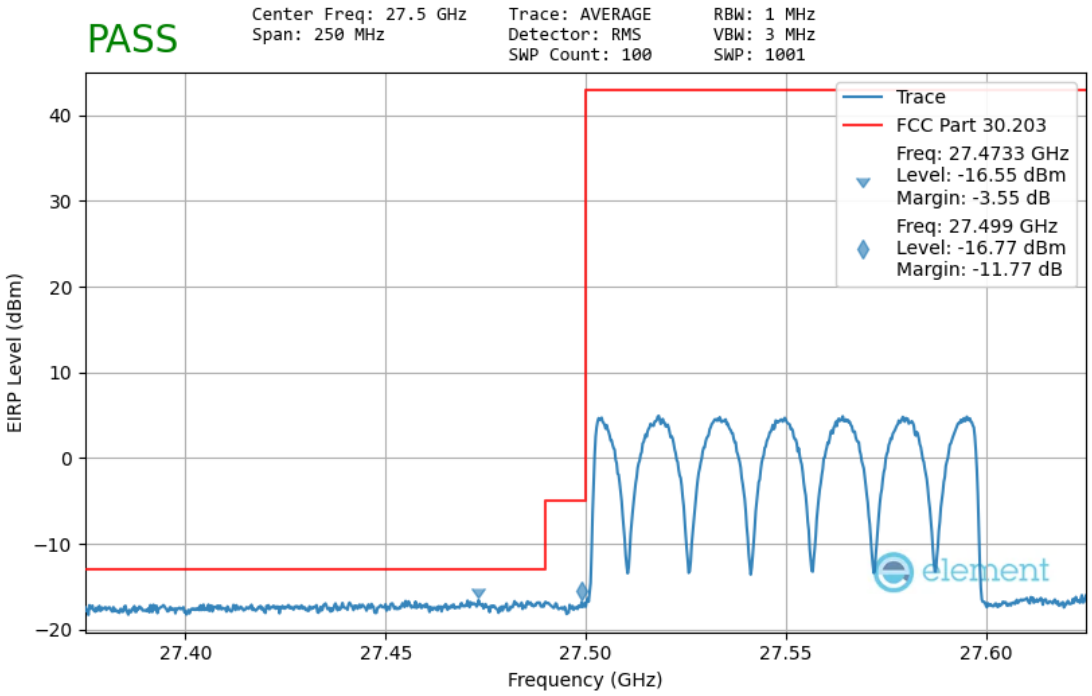
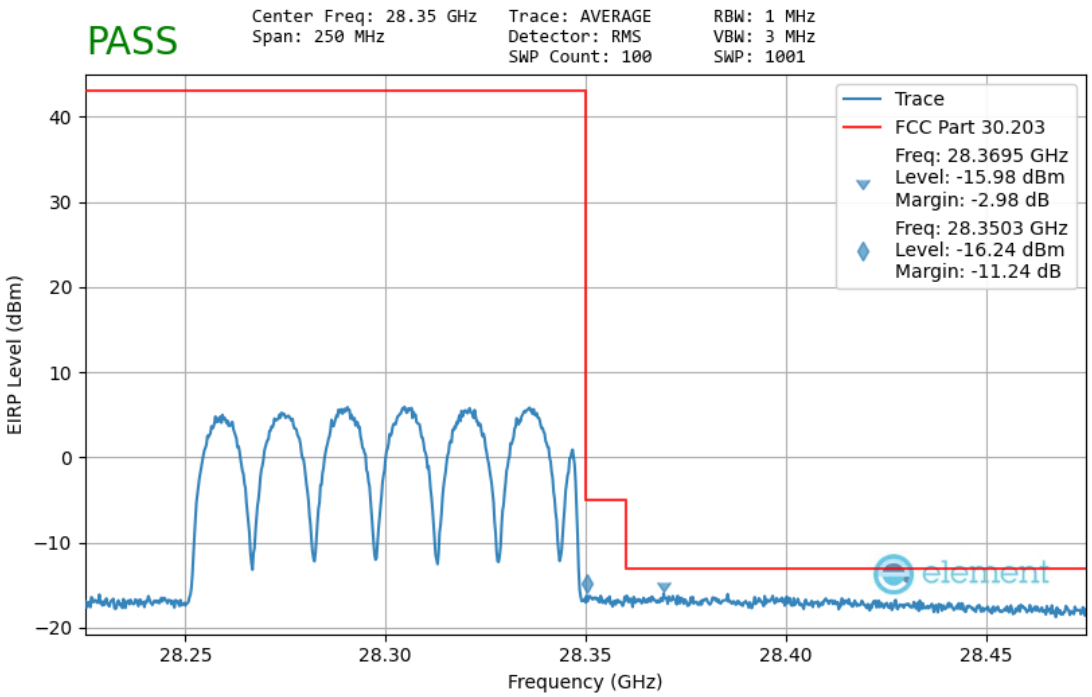


Plot 7-319.Ant 2 Lower Band Edge (100MHz-1CC – CP-OFDM QPSK Full RB)



Plot 7-320.Ant 2 Upper Band Edge - (100MHz-1CC – CP-OFDM QPSK Full RB)

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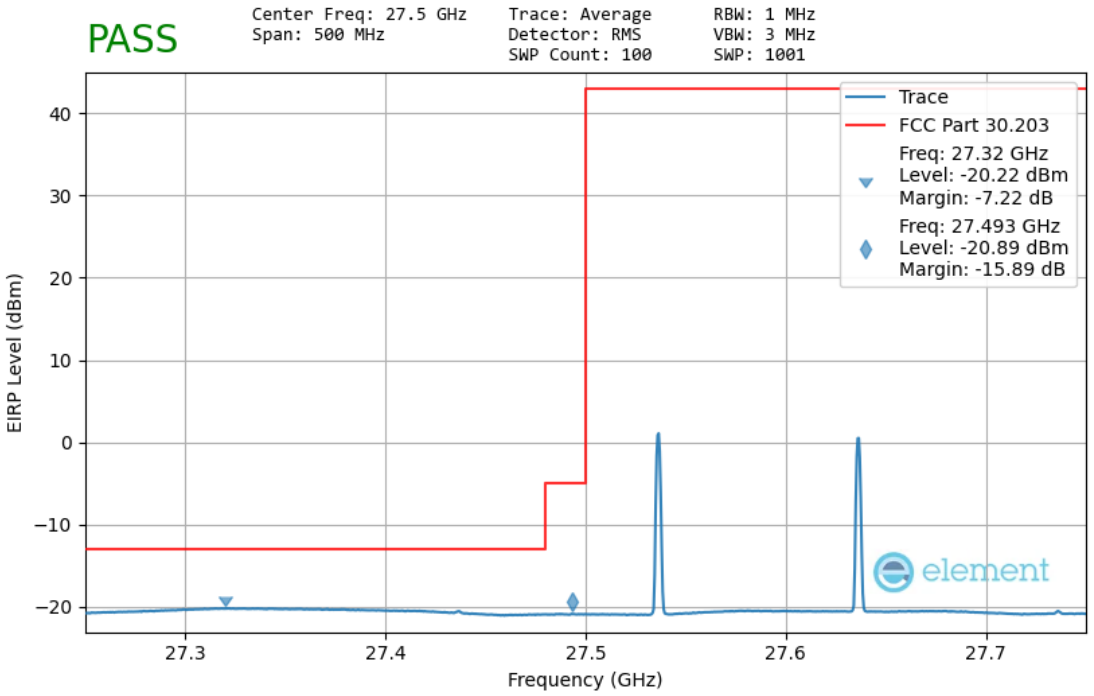
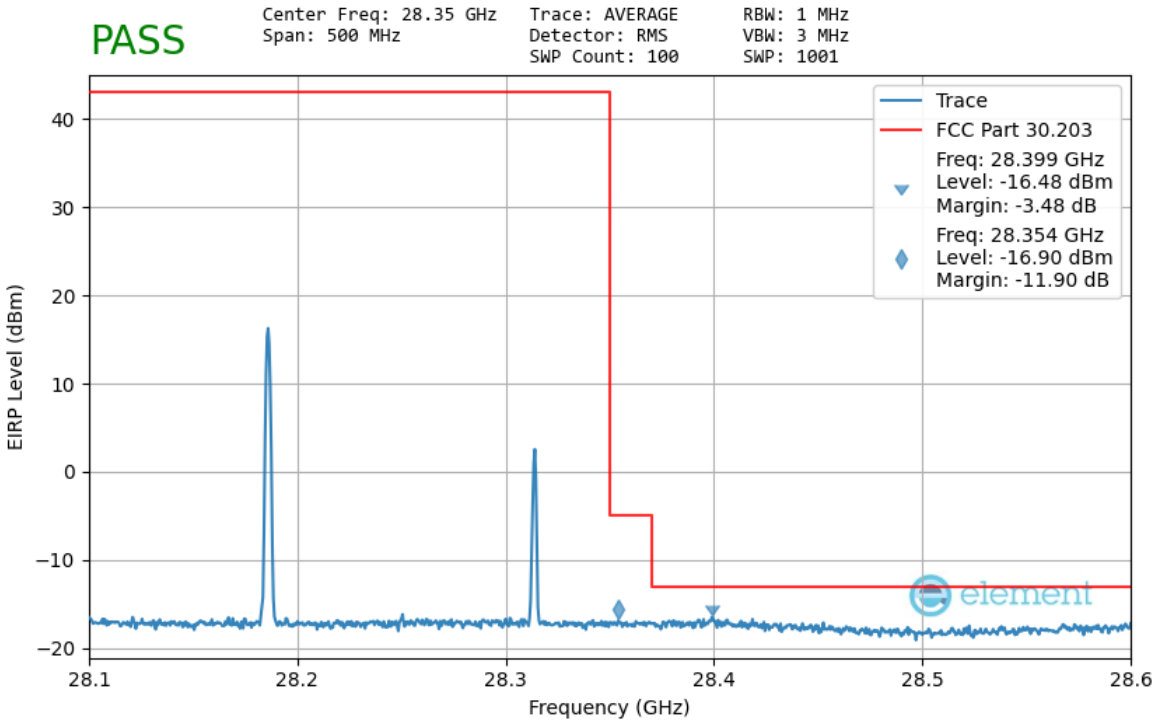


Plot 7-321.Ant 2 Lower Band Edge – TRP (100MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-322.Ant 2 Upper Band Edge - (100MHz-2CC – DFT-s-OFDM π/2 BPSK 1 RB)

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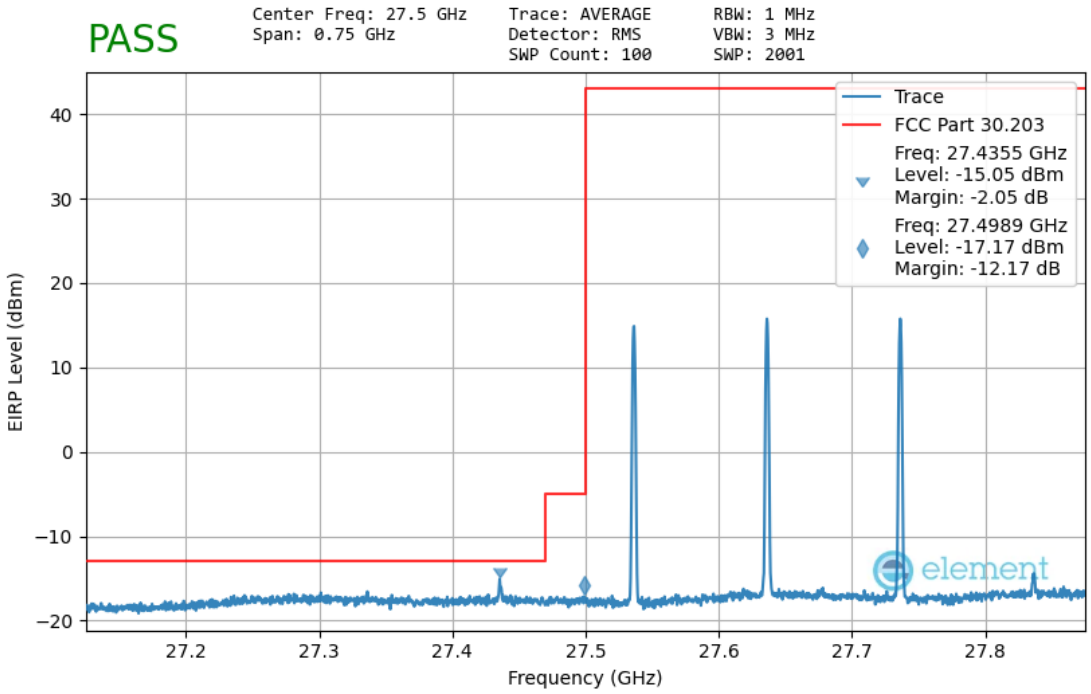
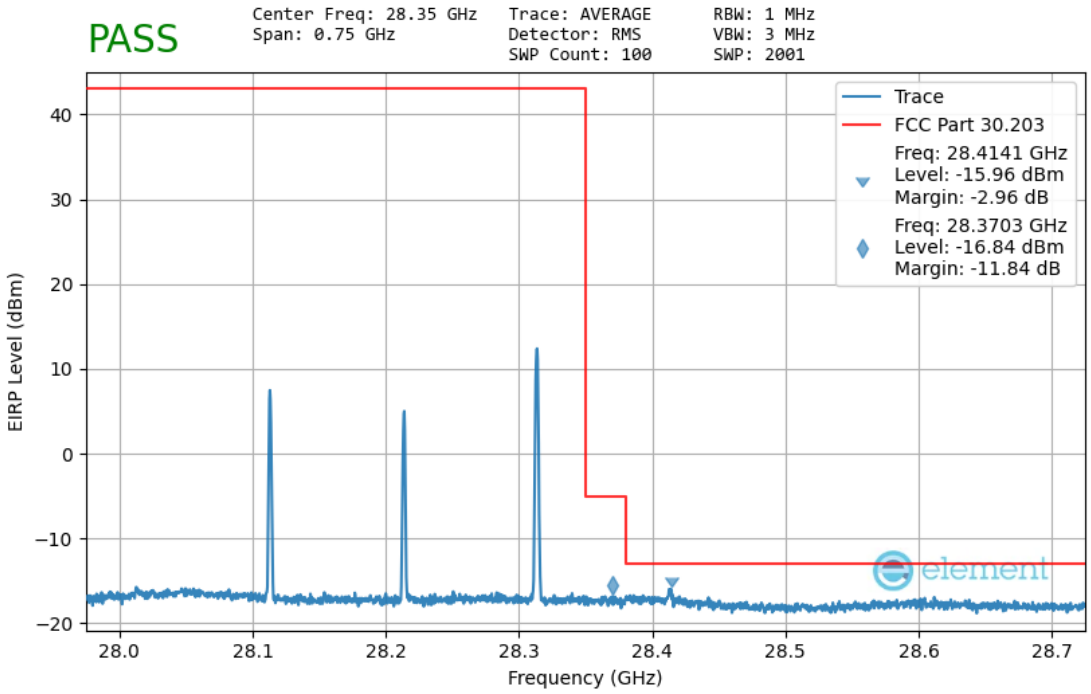


Plot 7-323.Ant 2 Lower Band Edge - (100MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-324.Ant 2 Upper Band Edge (100MHz-3CC – DFT-s-OFDM π/2 BPSK 1 RB)

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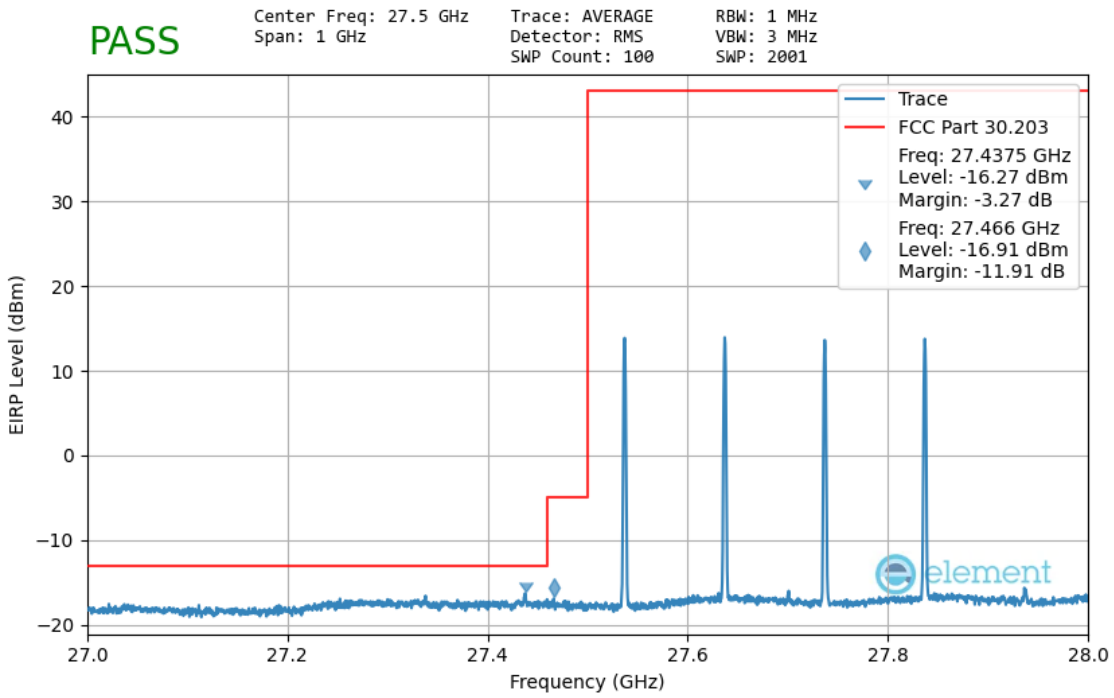
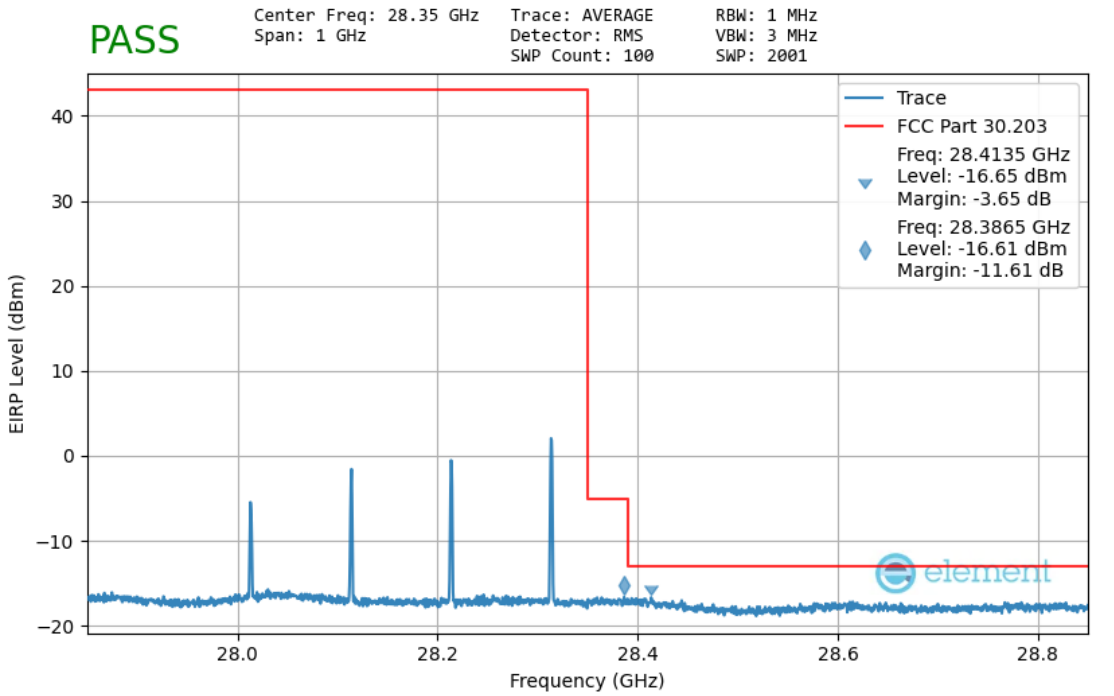


Plot 7-325.Ant 2 Lower Band Edge (100MHz-4CC – DFT-s-OFDM π/2 BPSK 1 RB)



Plot 7-326.Ant 2 Upper Band Edge (100MHz-4CC – DFT-s-OFDM π/2 BPSK 1 RB)

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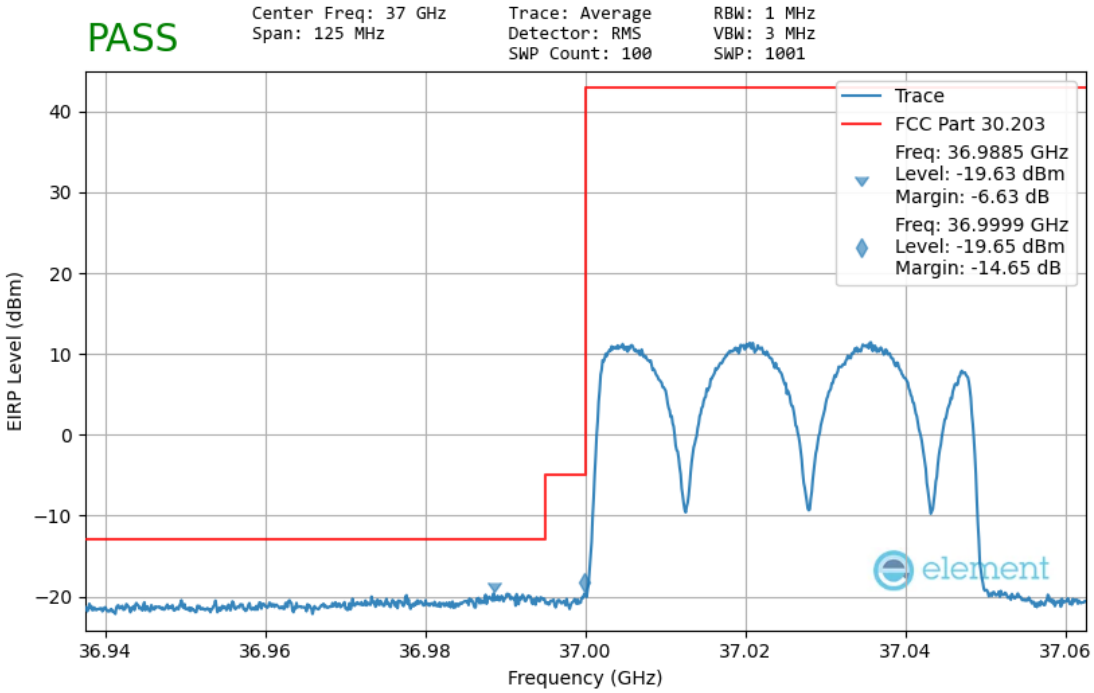
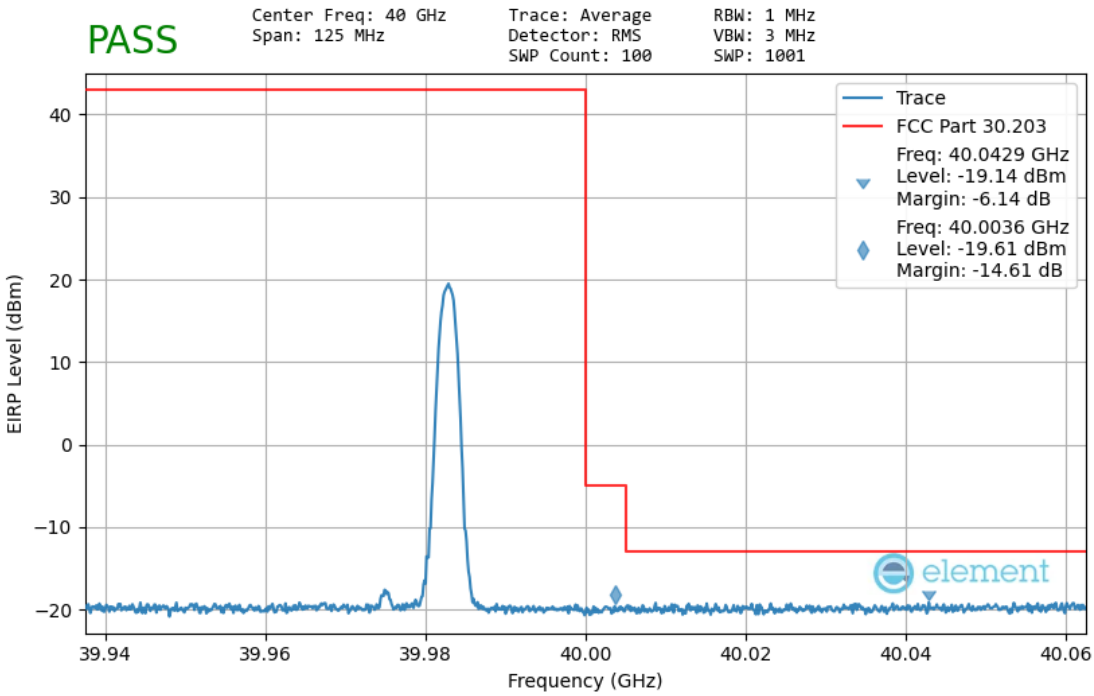
Band n260 – Worst Case



Plot 7-327.Ant 1 Lower Band Edge – (50MHz-1CC – CP-OFDM QPSK Full RB)



Plot 7-328.Ant 1 Upper Band Edge - (50MHz-1CC – DFT-s-OFDM π/2 BPSK 1 RB)

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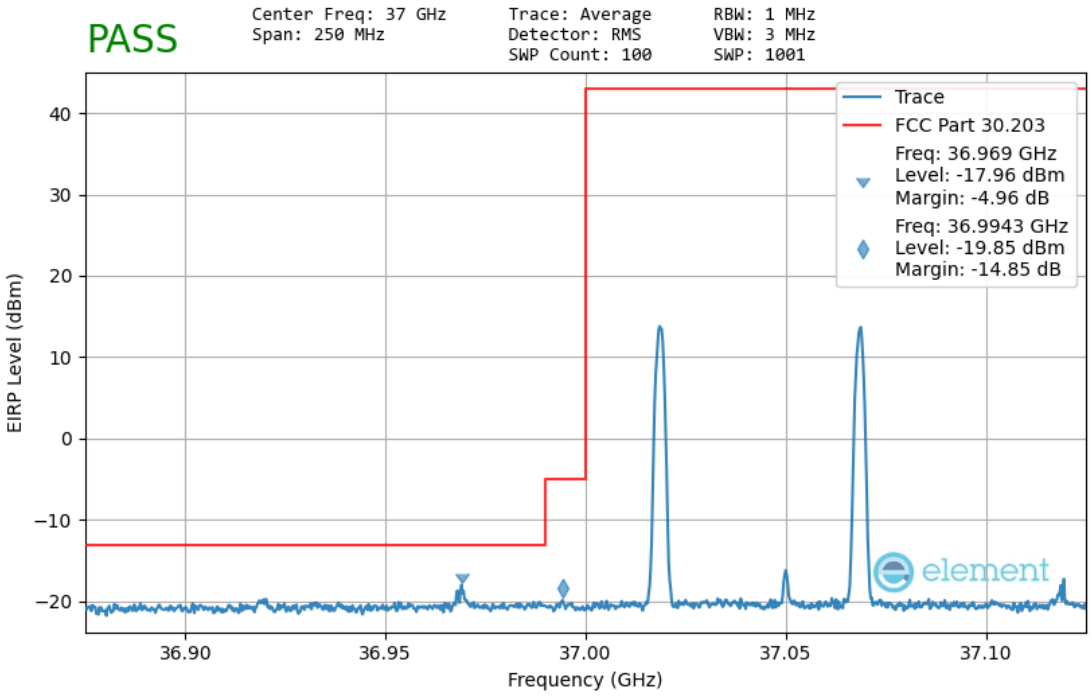
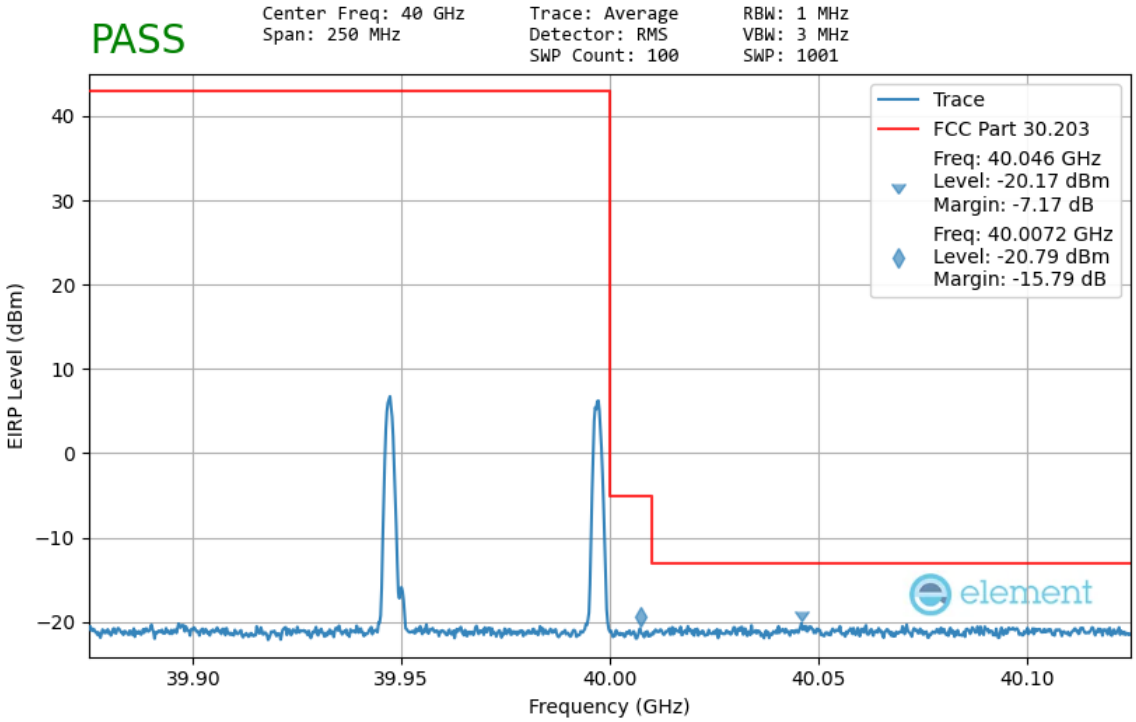


Plot 7-329.Ant 1 Lower Band Edge – (50MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-330.Ant 1 Upper Band Edge - (50MHz-2CC – CP-OFDM π/2 BPSK 1 RB)

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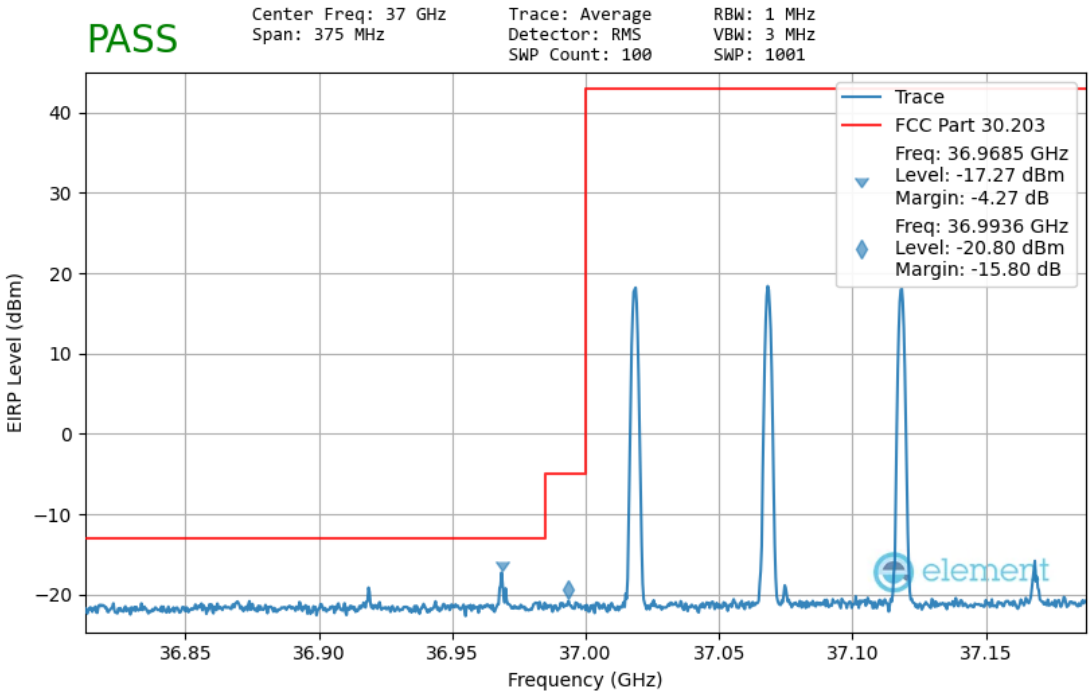
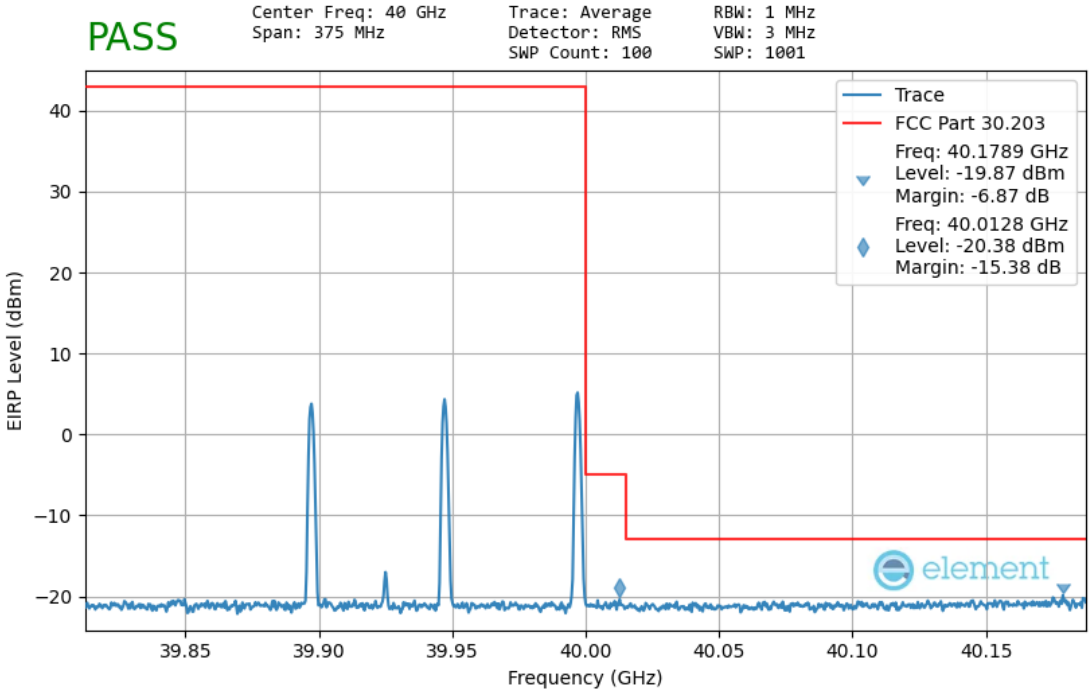


Plot 7-331.Ant 1 Lower Band Edge – (50MHz-3CC – CP-OFDM QPSK 1 RB)



Plot 7-332.Ant 1 Upper Band Edge - (50MHz-3CC – DFT-s-OFDM QPSK 1 RB)

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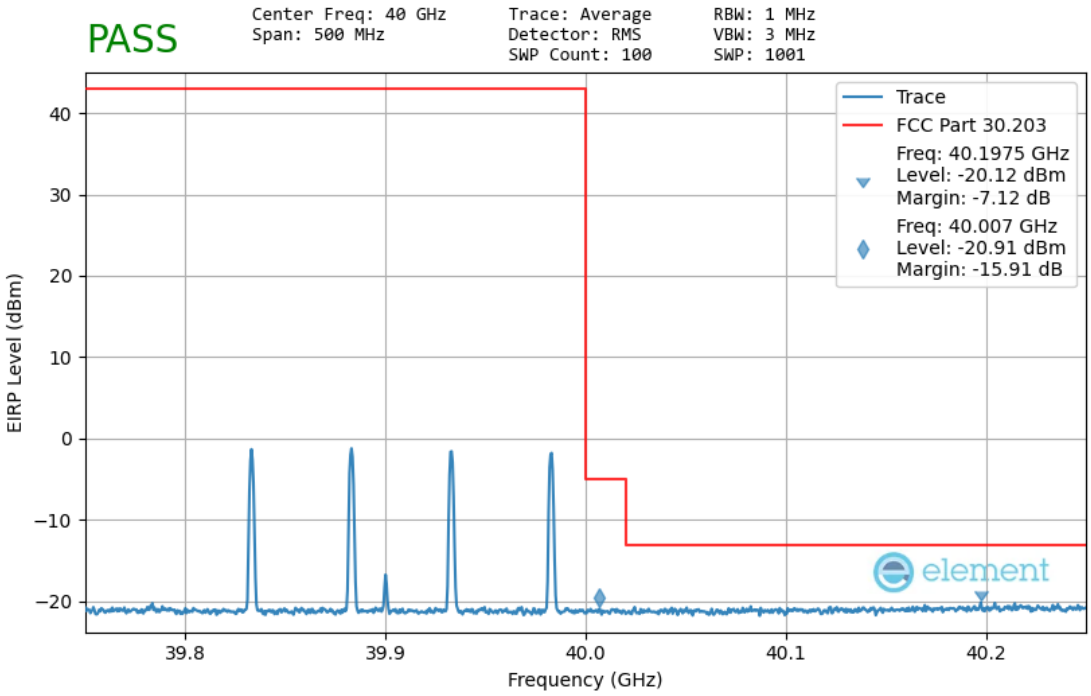
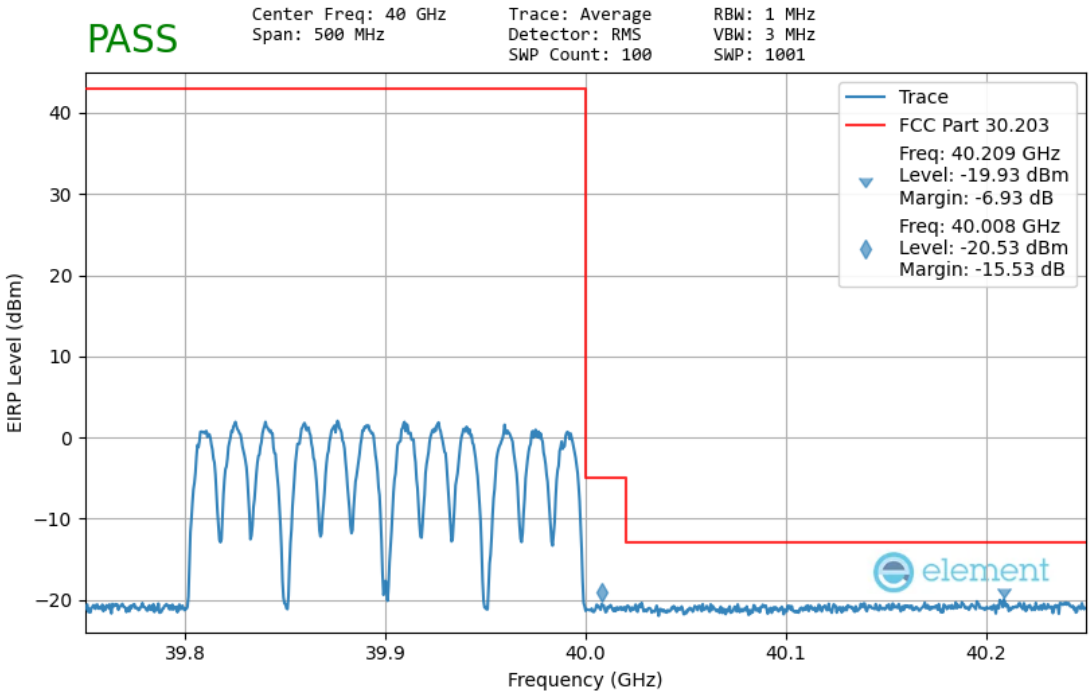


Plot 7-333.Ant 1 Lower Band Edge – (50MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-334.Ant 1 Upper Band Edge - (50MHz-4CC – DFT-s-OFDM π/2 BPSK Full RB)

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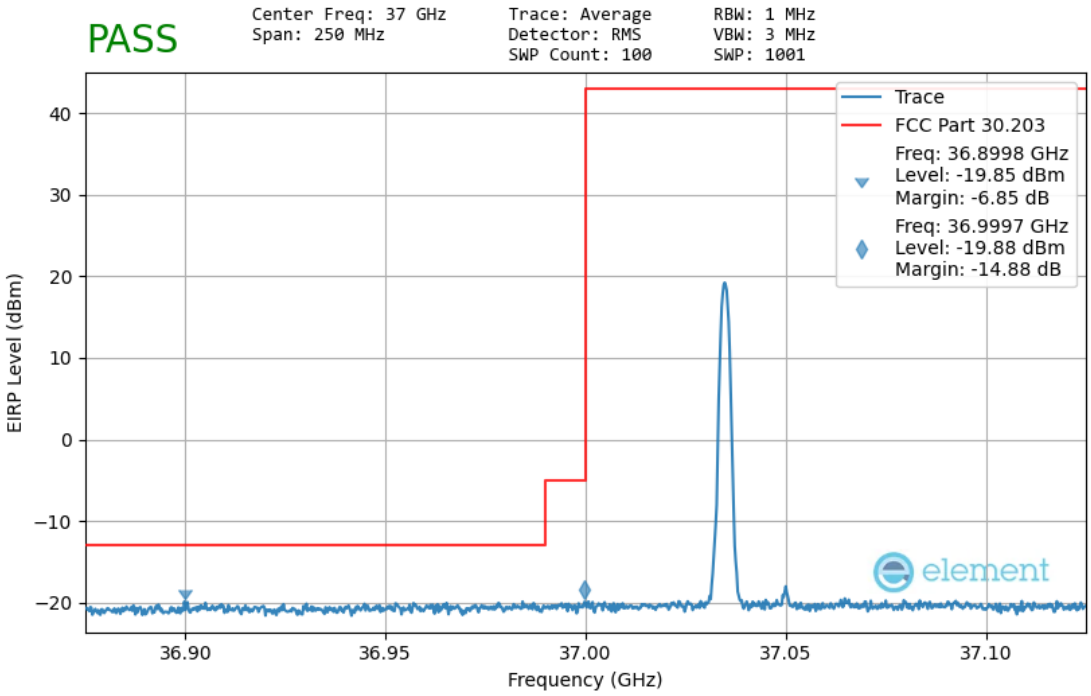
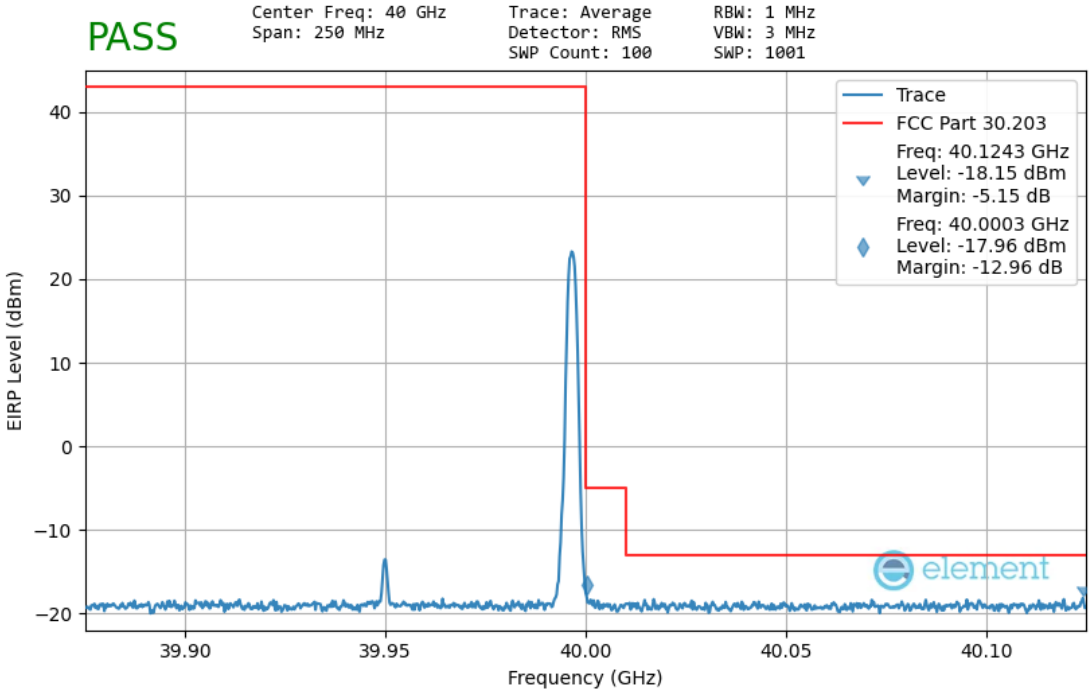


Plot 7-335.Ant 1 Lower Band Edge (100MHz-1CC – CP-OFDM QPSK 1 RB)



Plot 7-336.Ant 1 Upper Band Edge - (100MHz-1CC – CP-OFDM QPSK 1 RB)

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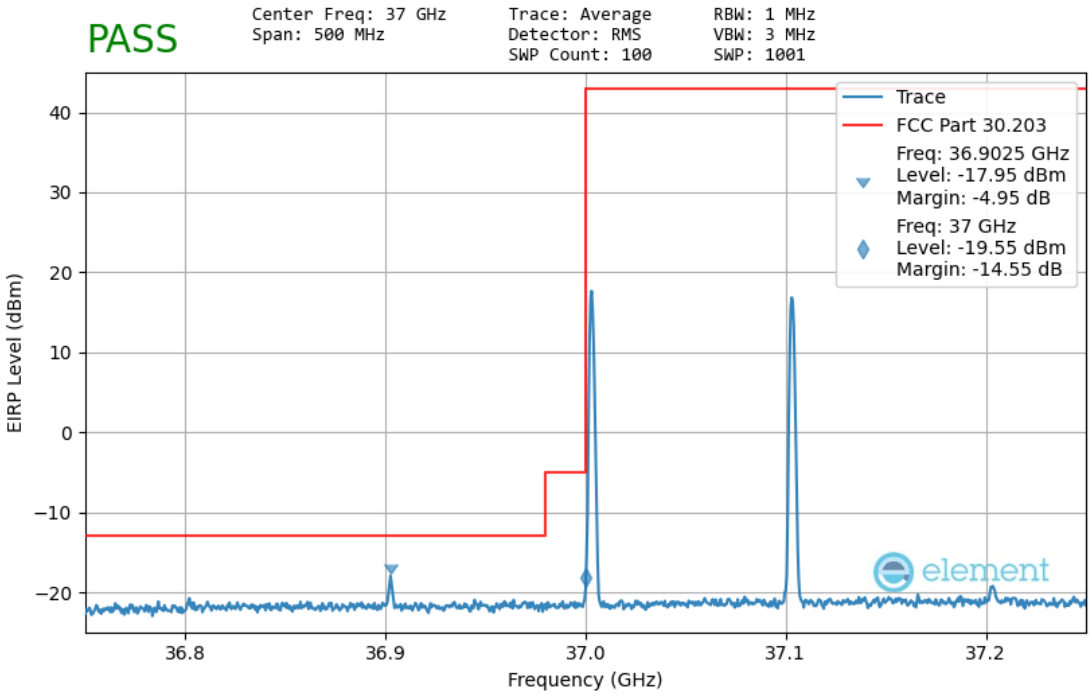
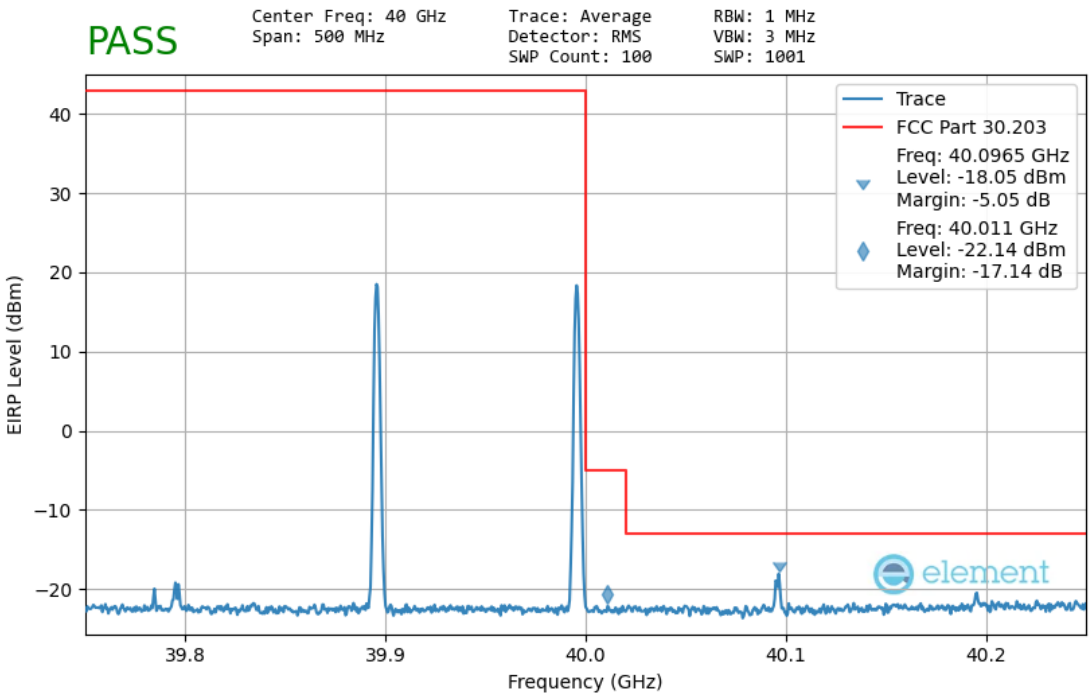


Plot 7-337.Ant 1 Lower Band Edge- (100MHz-2CC – DFT-s-OFDM π/2 BPSK 1 RB)



Plot 7-338.Ant 1 Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

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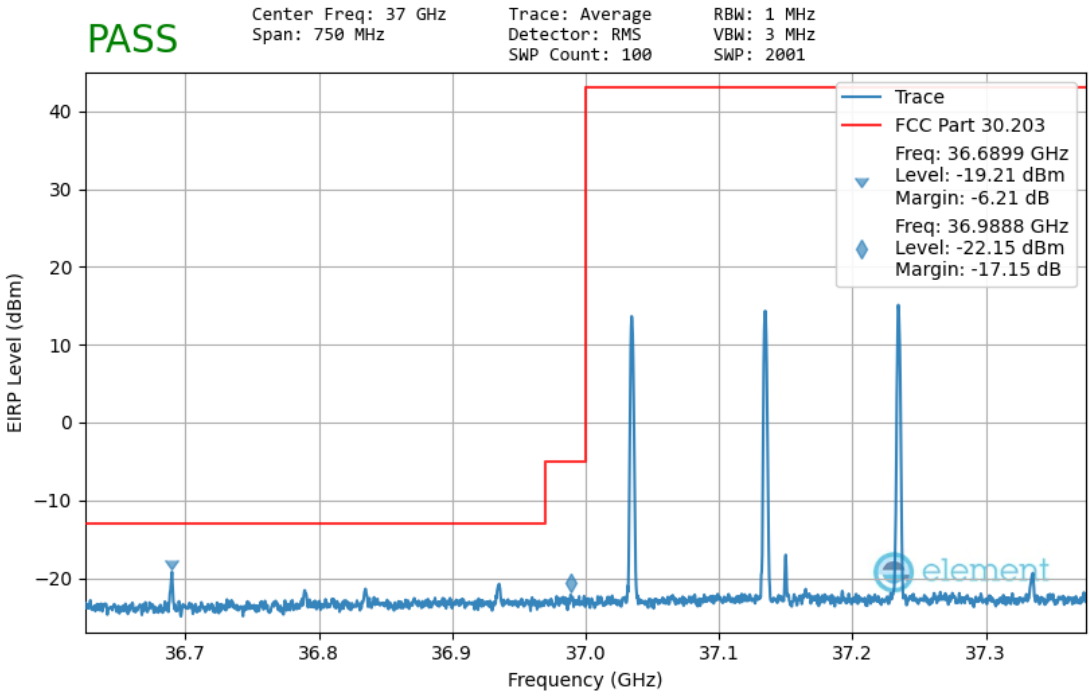
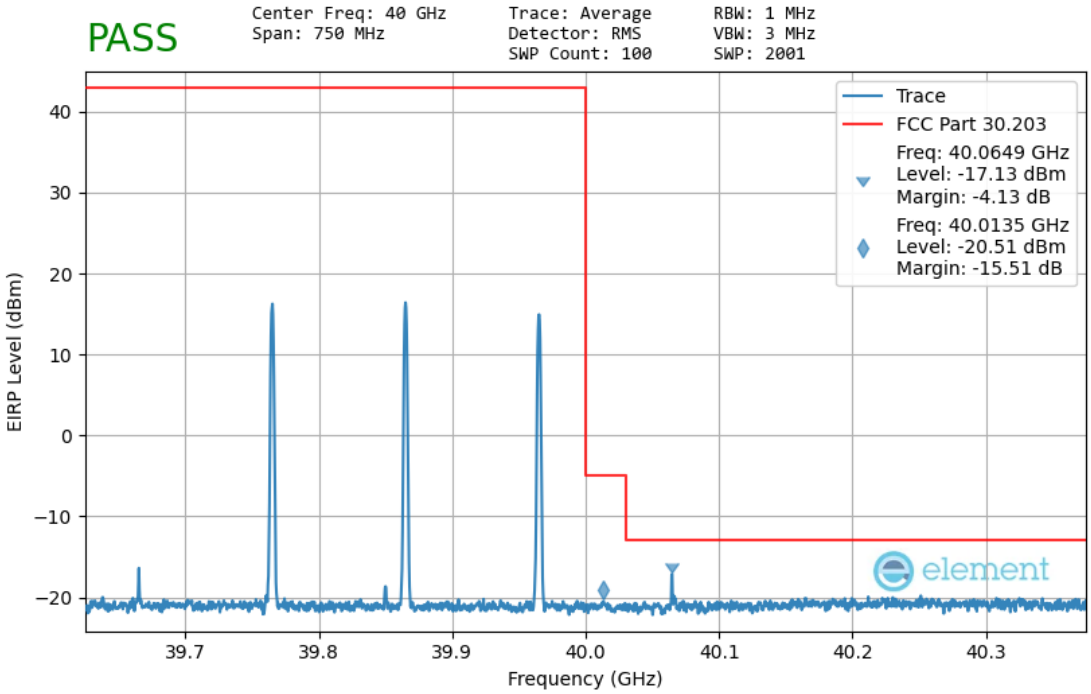


Plot 7-339.Ant 1 Lower Band Edge - (100MHz-3CC – CP -OFDM QPSK 1 RB)



Plot 7-340.Ant 1 Upper Band Edge (100MHz-3CC – CP -OFDM QPSK 1 RB)

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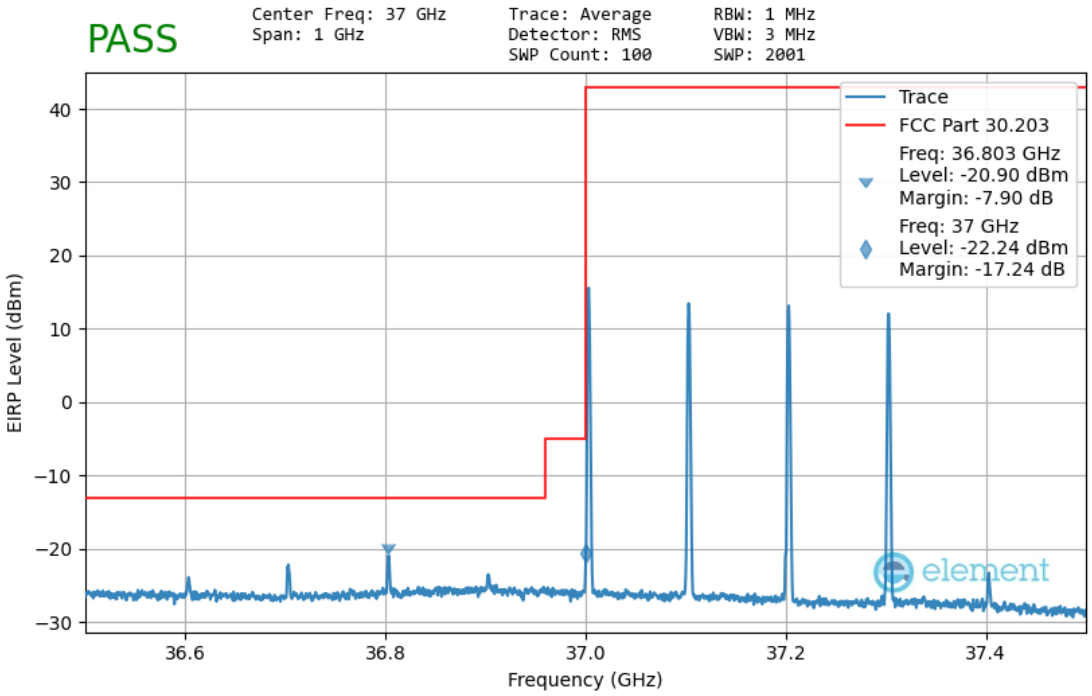
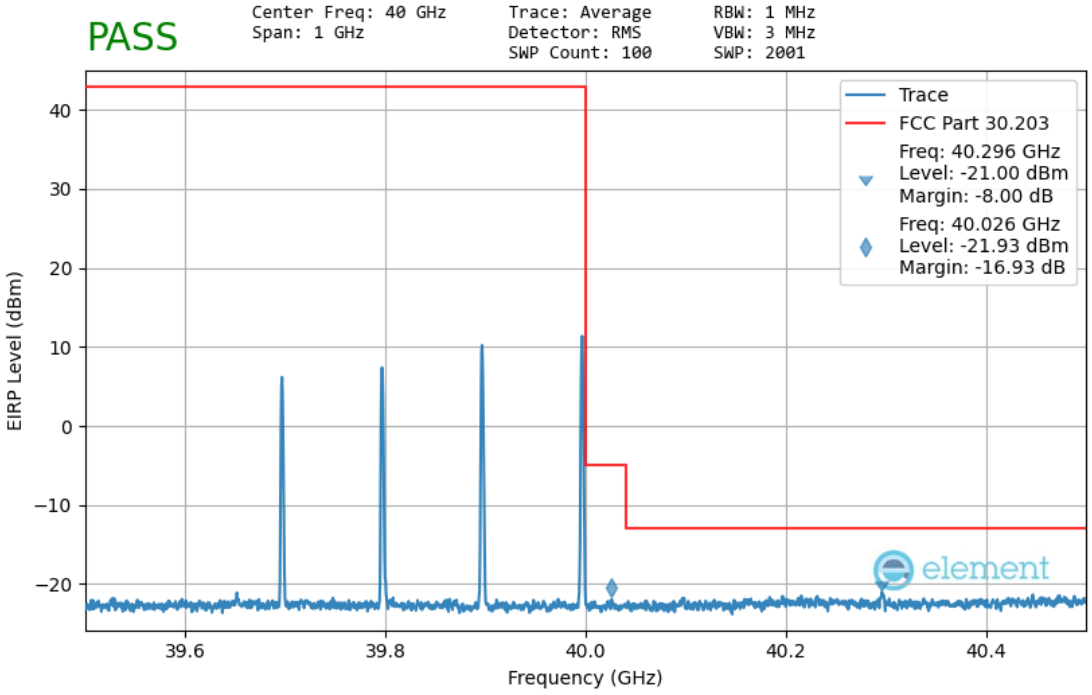


Plot 7-341.Ant 1 Lower Band Edge (100MHz-4CC – DFT-s -OFDM π/2 BPSK 1 RB)



Plot 7-342.Ant 1 Upper Band Edge (100MHz-4CC – DFT-s -OFDM π/2 BPSK 1 RB)

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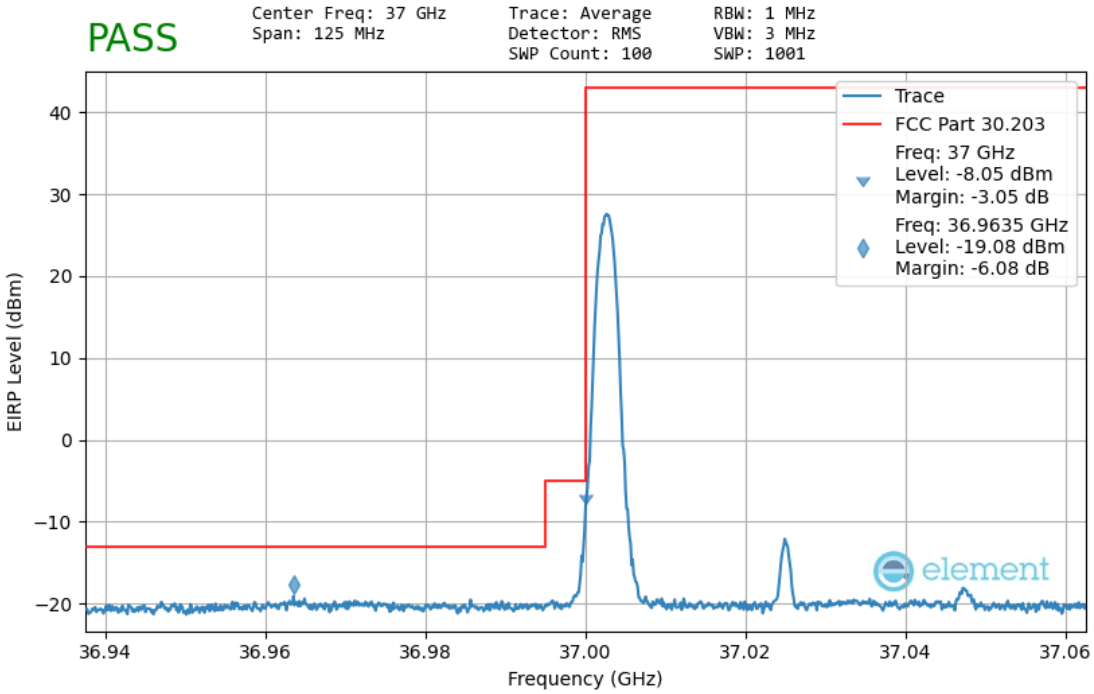
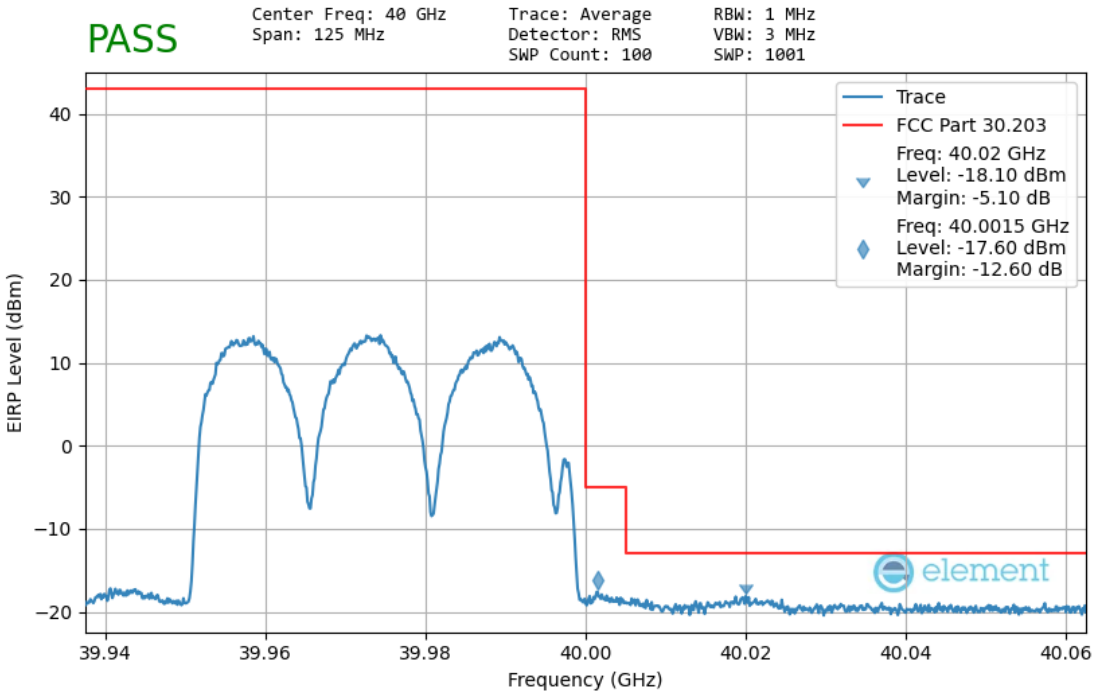


Plot 7-343.Ant 2 Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)



Plot 7-344.Ant 2 Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB)

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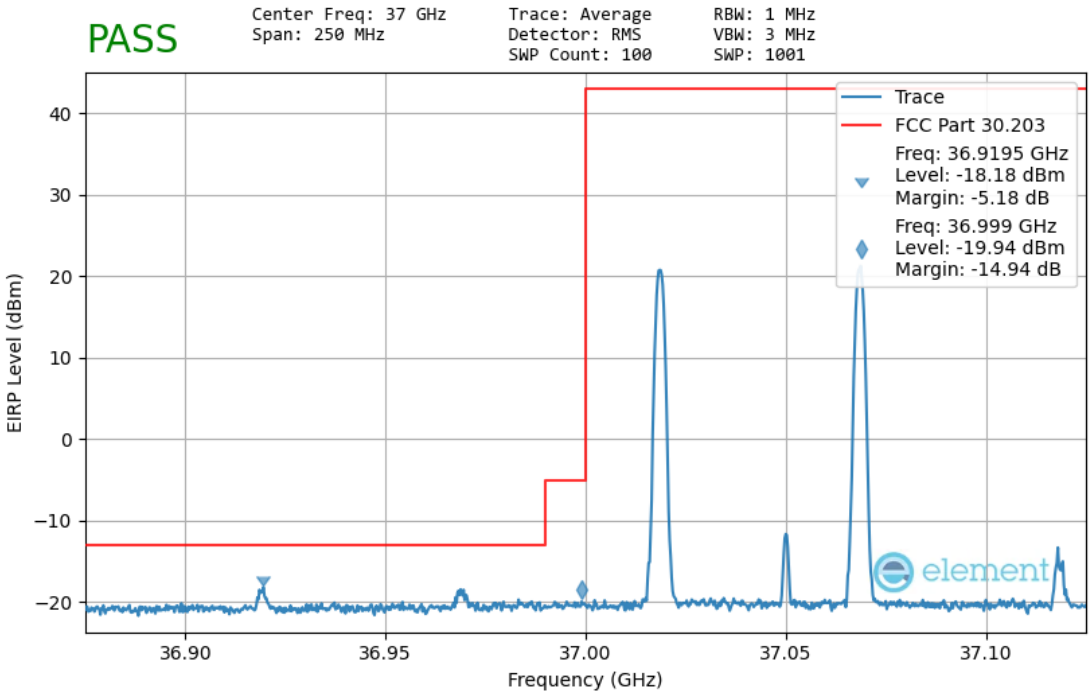
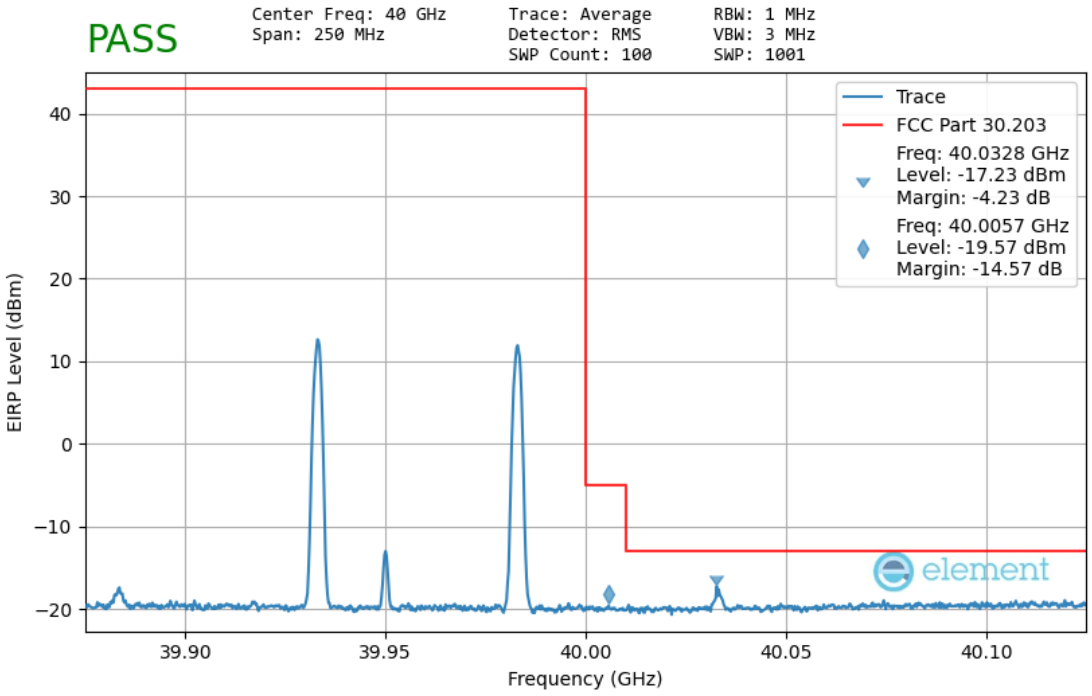


Plot 7-345.Ant 2 Lower Band Edge (50MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-346.Ant 2 Upper Band Edge (50MHz-2CC – CP-OFDM QPSK 1 RB)

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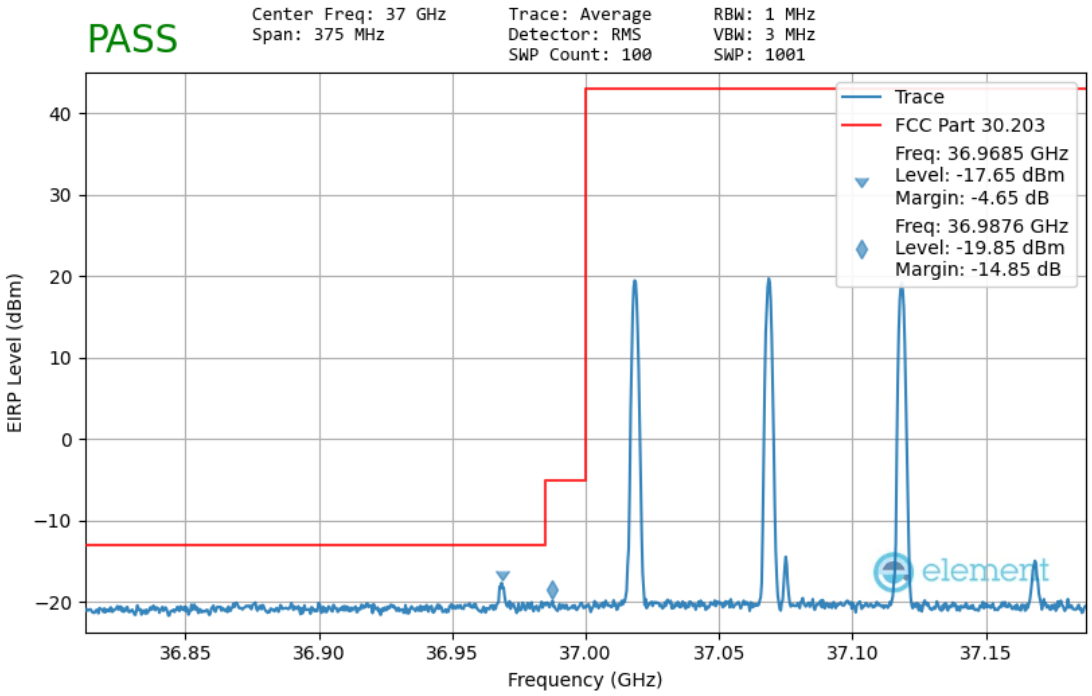
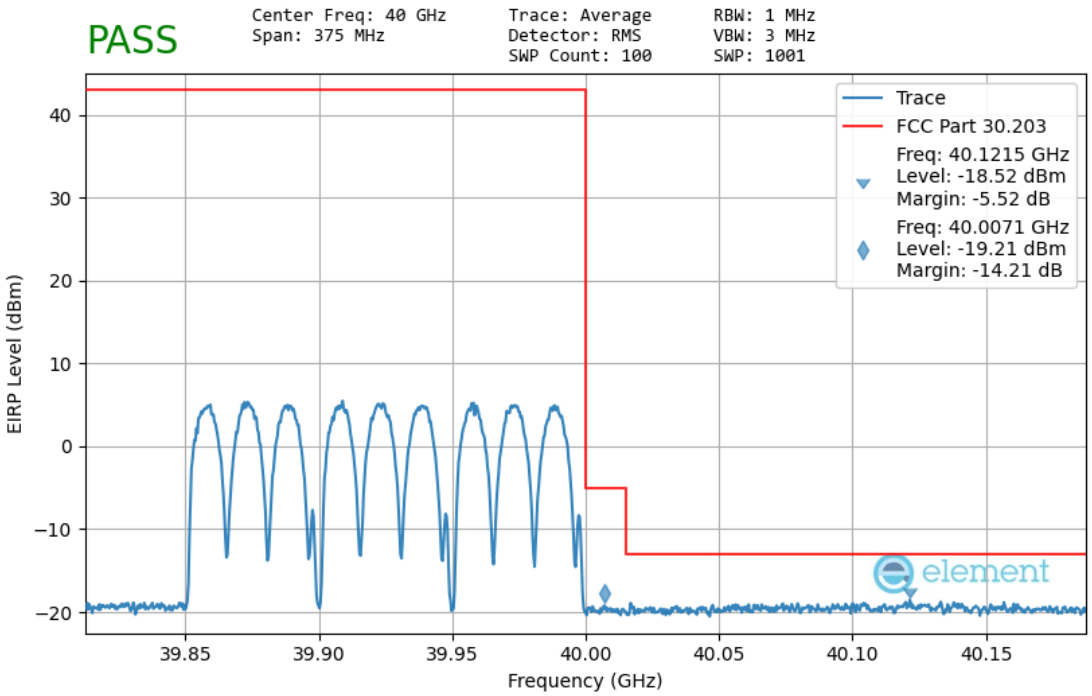


Plot 7-347.Ant 2 Lower Band Edge (50MHz-3CC – DFT-s-OFDM π/2 BPSK 1 RB)



Plot 7-348.Ant 2 Upper Band Edge (50MHz-3CC – CP-OFDM π/2 QPSK Full RB)

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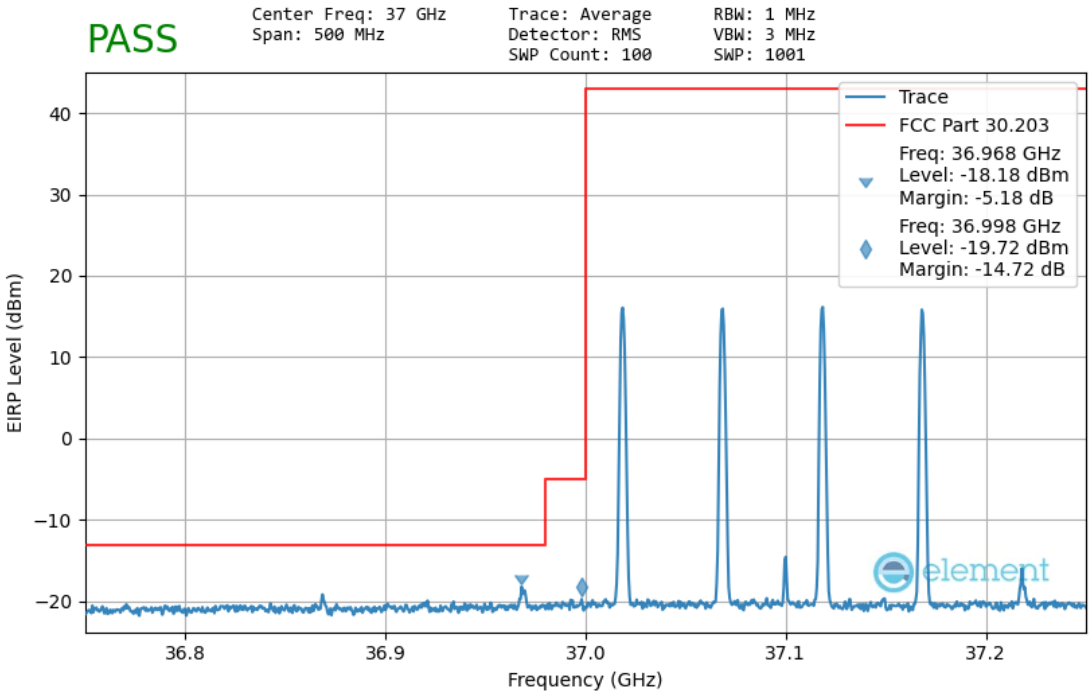
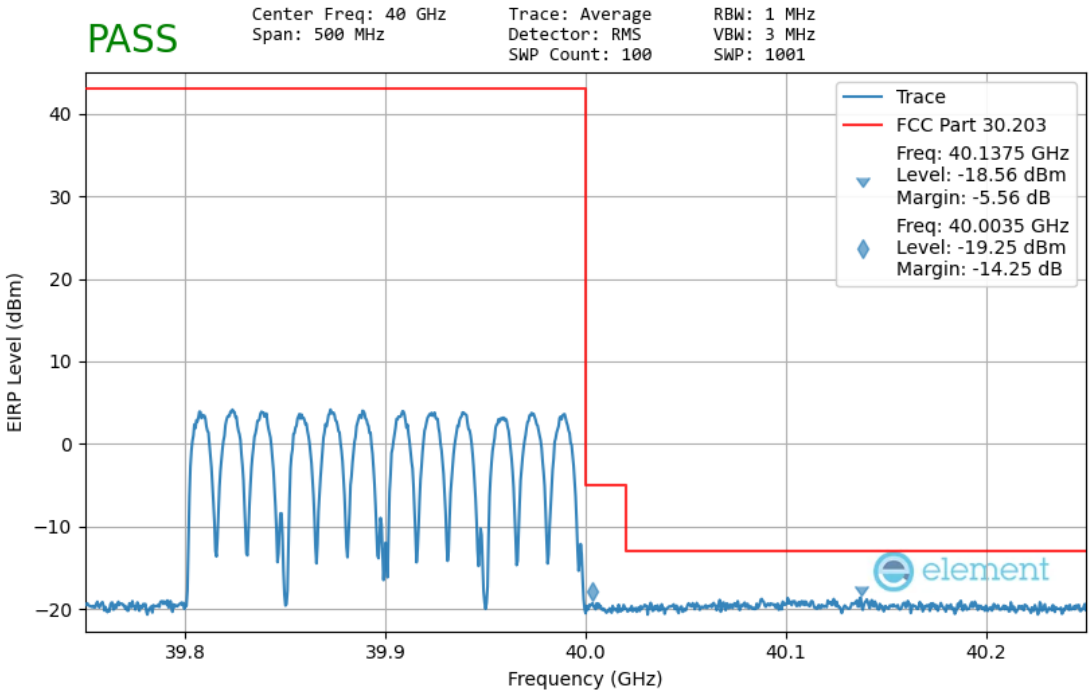


Plot 7-349.Ant 2 Lower Band Edge (50MHz-4CC – CP-OFDM QPSK 1 RB)



Plot 7-350.Ant 2 Upper Band Edge (50MHz-4CC – CP-OFDM π/2 QPSK Full RB)

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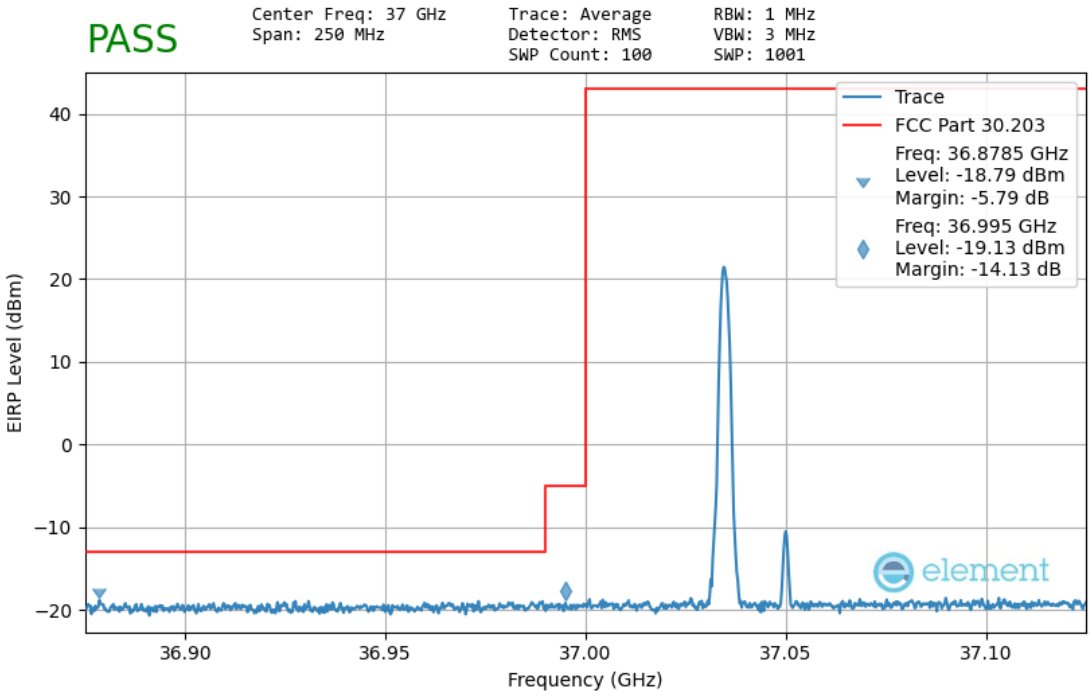
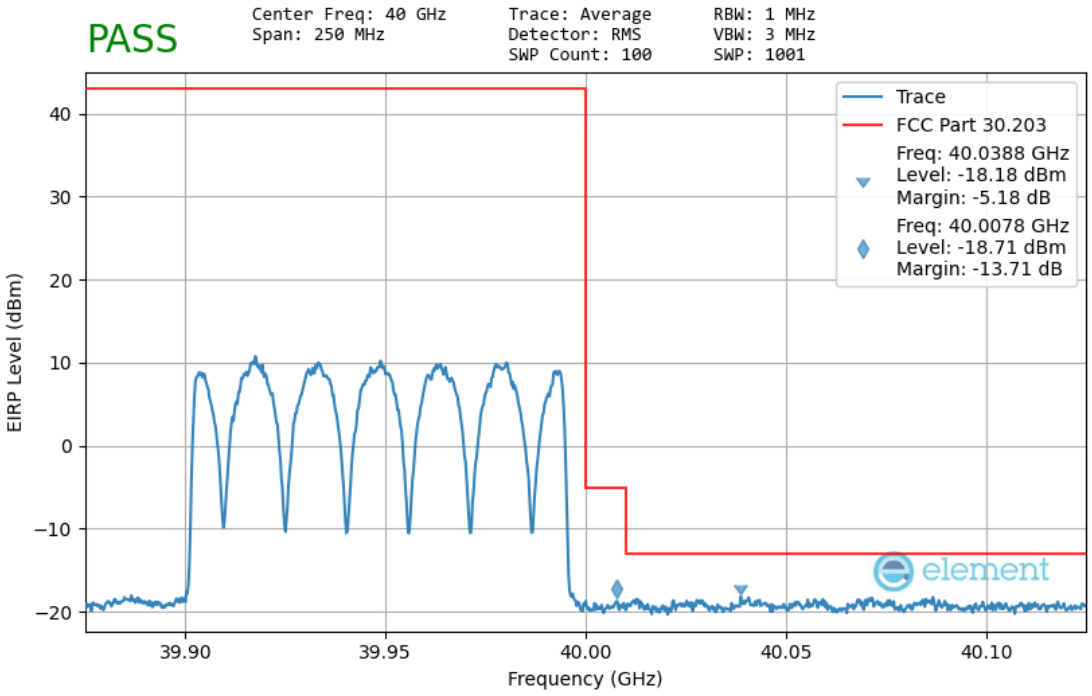


Plot 7-351.Ant 2 Lower Band Edge (100MHz-1CC – CP-OFDM QPSK 1 RB)



Plot 7-352.Ant 2 Upper Band Edge - (100MHz-1CC – DFT-s-OFDM QPSK Full RB)

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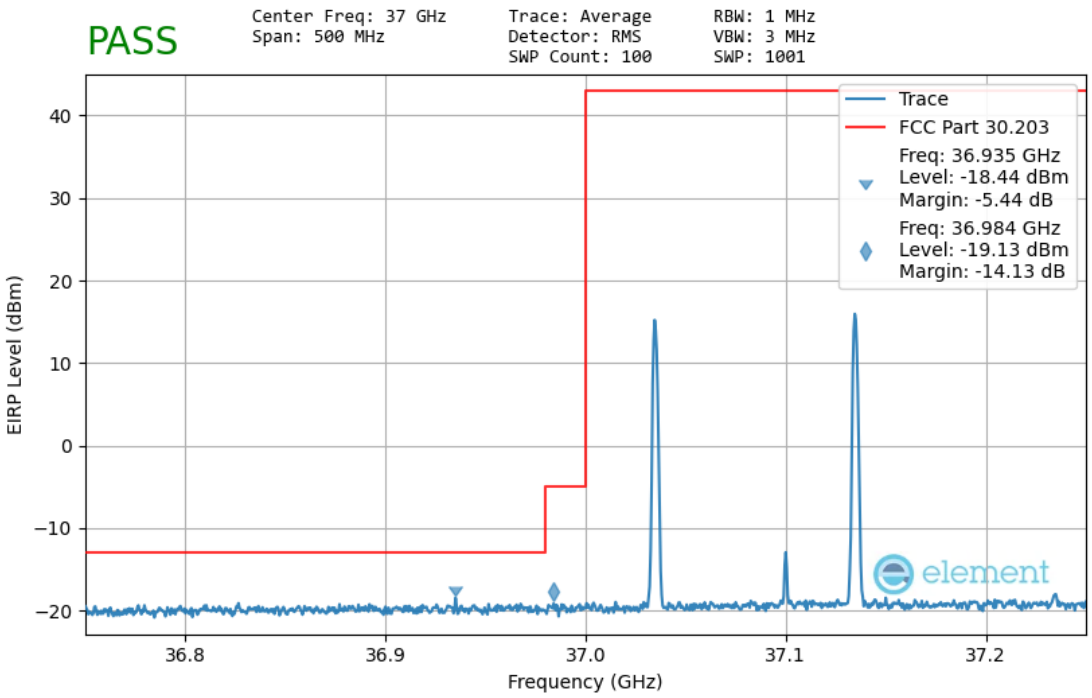
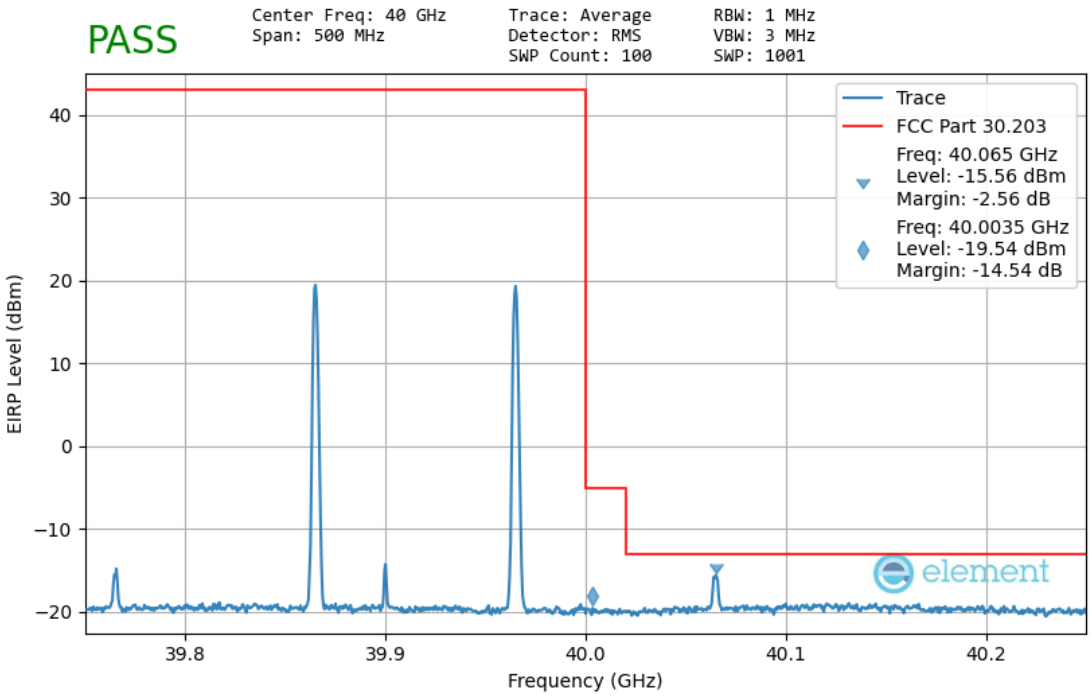


Plot 7-353.Ant 2 Lower Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-354.Ant 2 Upper Band Edge (100MHz-2CC – DFT-s-OFDM π/2 BPSK 1 RB)

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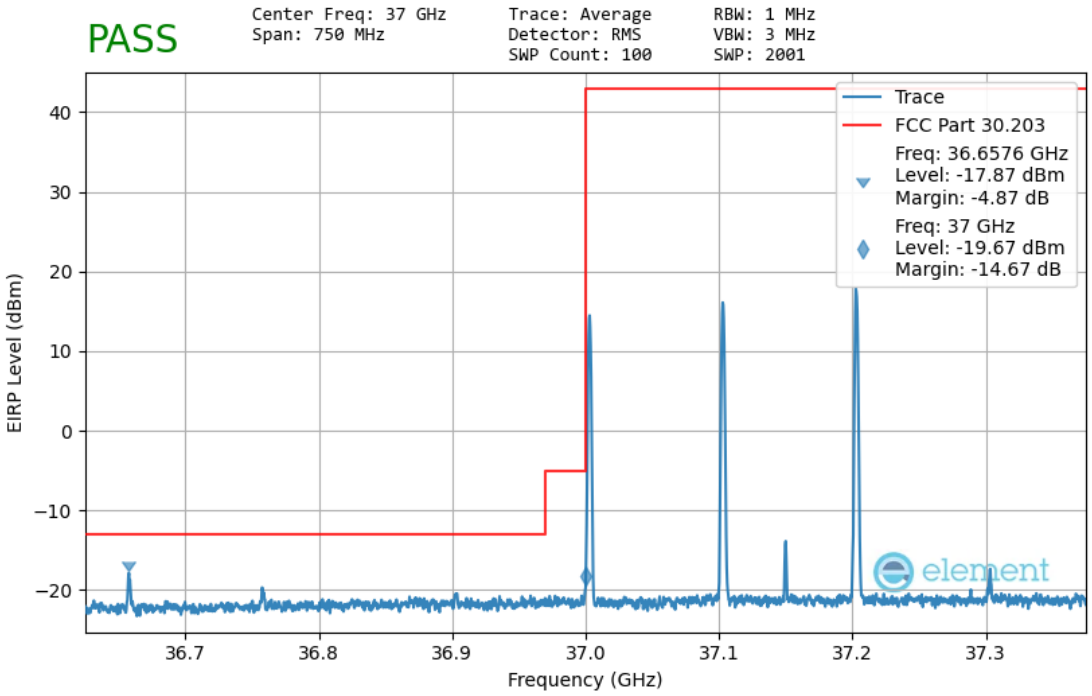
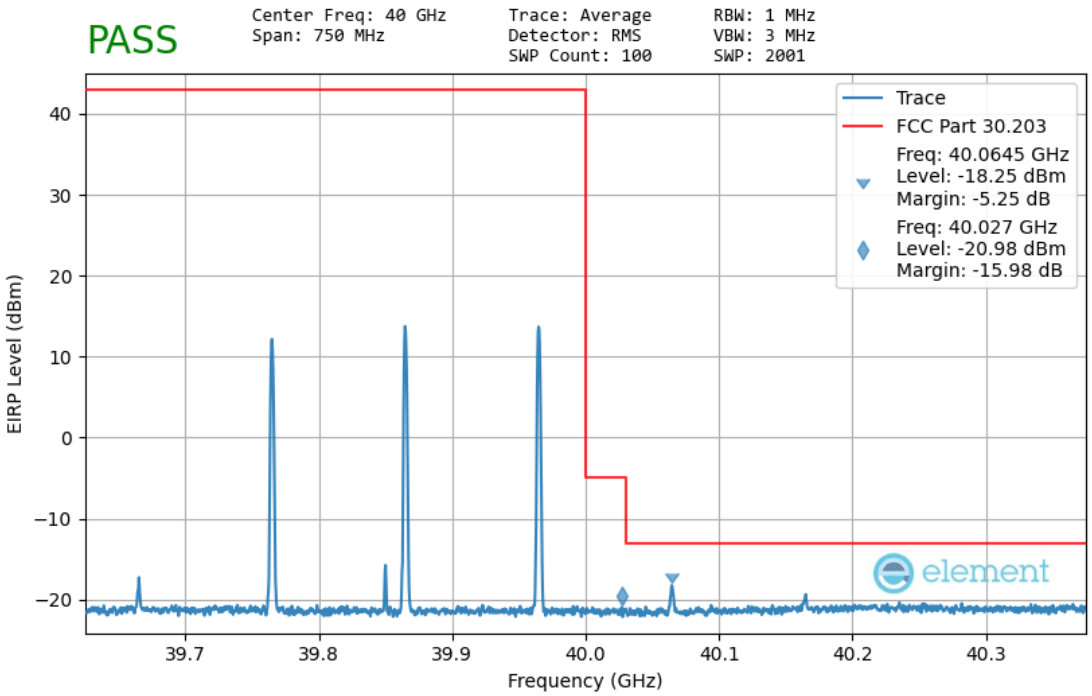


Plot 7-355.Ant 2 Lower Band Edge - (100MHz-3CC – CP -OFDM QPSK 1 RB)



Plot 7-356.Ant 2 Upper Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

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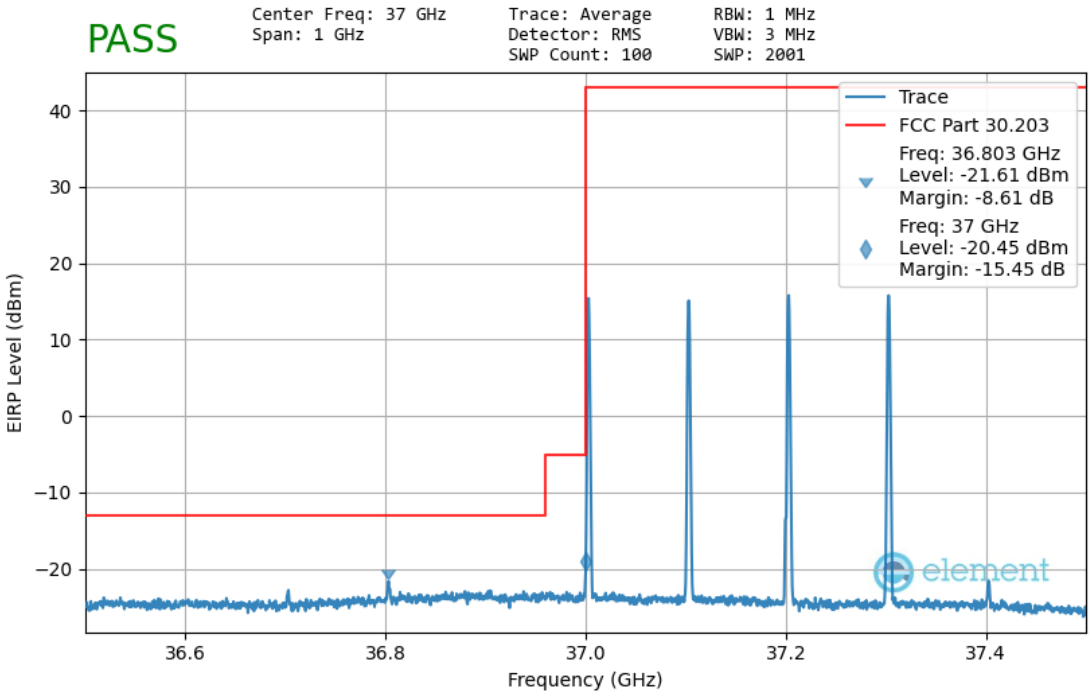
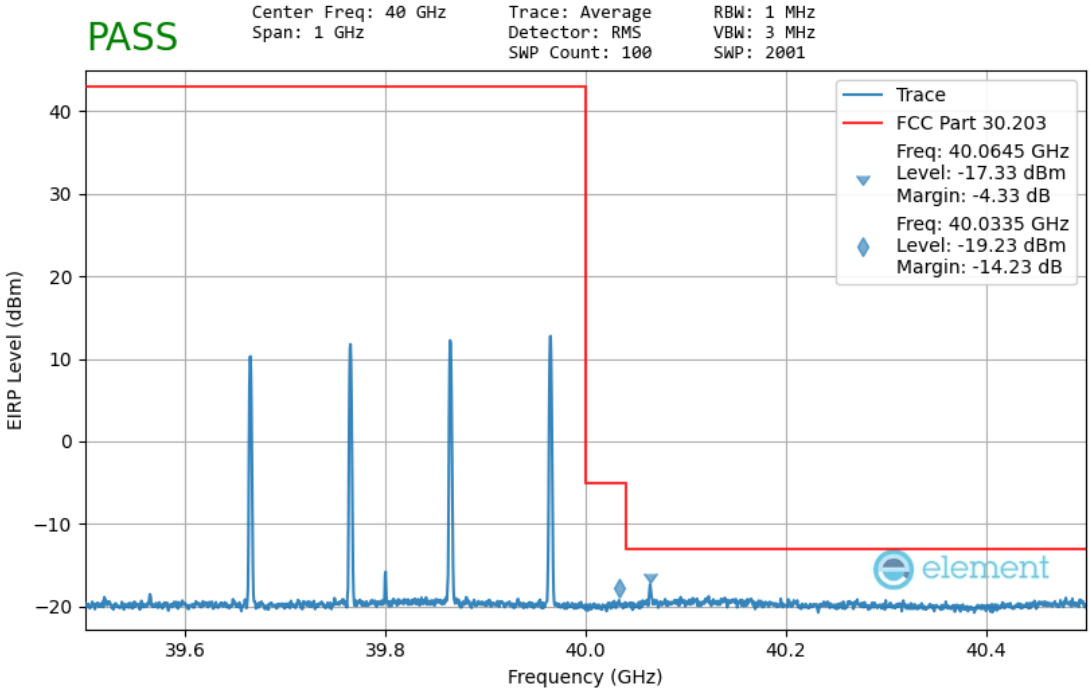


Plot 7-357.Ant 2 Lower Band Edge (100MHz-4CC – DFT-s-OFDM π/2 BPSK 1 RB)



Plot 7-358.Ant 2 Upper Band Edge (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)

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7.6 Frequency Stability / Temperature Variation

§2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.56-2015. The frequency stability of the transmitter is measured by:

a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Test Procedure Used

ANSI C63.26-2015 Section 5.6
KDB 842590 D01 v01r02 Section 4.5

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was measured using horn antenna connected to a spectrum analyzer. The EUT was placed inside an environmental chamber that uses a foam plug to maintain the temperature condition inside the chamber. The horn antenna measured the frequency of the fundamental signal.

Test Notes

The Frequency Deviation column in the table below is the amount of deviation measured from the center frequency of the Reference measurement (first row).

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Frequency Stability Measurements (Band n258)

§2.1055

OPERATING FREQUENCY: 24,349,920,000 Hz

CHANNEL: 2018331

VOLTAGE (%)	POWER (VDC)	TEMP (^{0}C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		+ 20 (Ref)	24,350,551,015	0	0.0000000
100 %		- 30	24,350,556,990	5,975	0.0000245
100 %		- 20	24,350,578,387	27,372	0.0001124
100 %		- 10	24,350,570,156	19,141	0.0000786
100 %		0	24,350,555,492	4,477	0.0000184
100 %		+ 10	24,350,582,424	31,409	0.0001290
100 %		+ 30	24,350,572,220	21,205	0.0000871
100 %		+ 40	24,350,575,677	24,662	0.0001013
100 %		+ 50	24,350,579,777	28,762	0.0001181
BATT. ENDPOINT		+ 20	24,350,554,877	3,862	0.0000159

Table 7-75. Frequency Stability Data (n258)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability Measurements (Band n258)

§2.1055

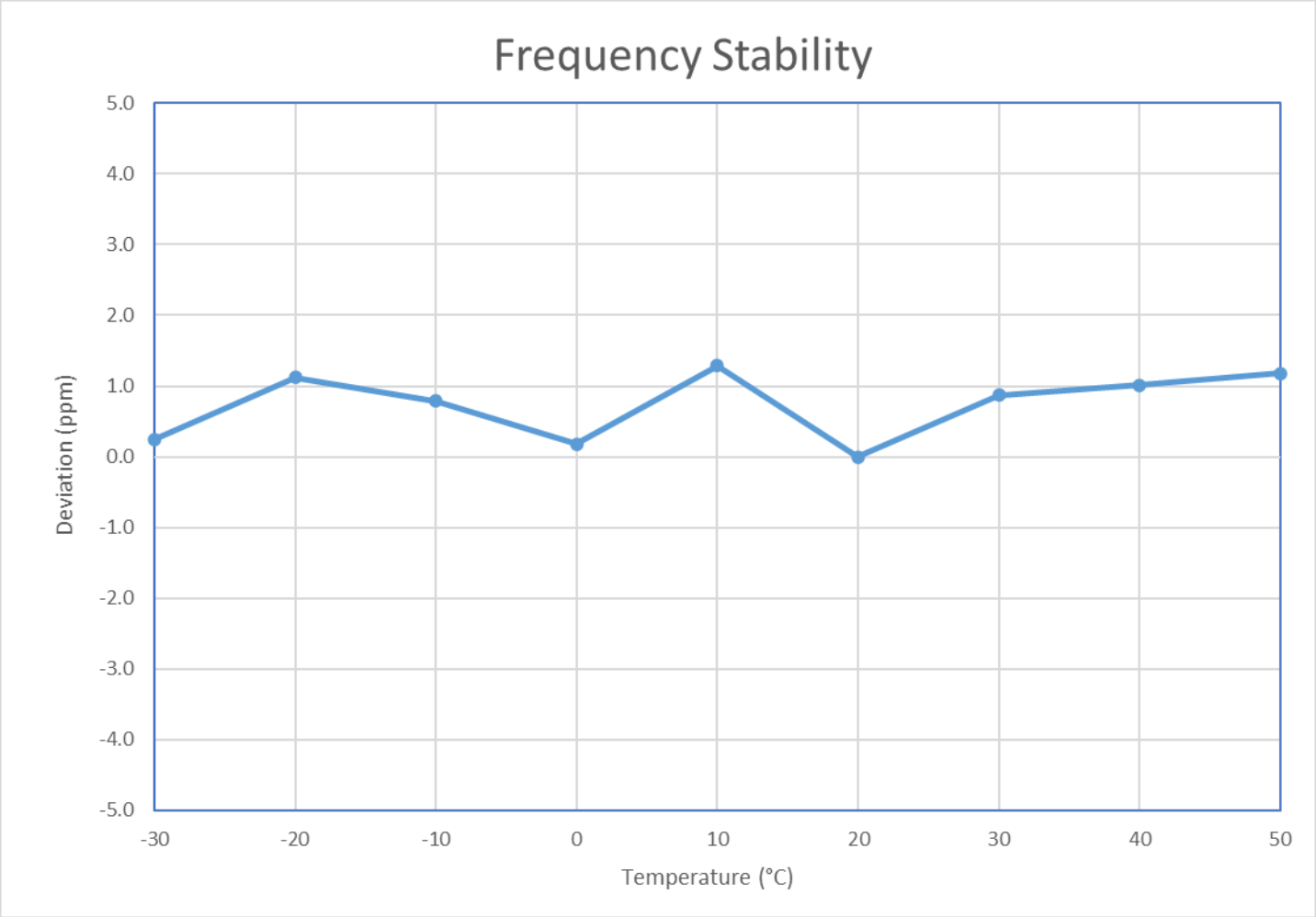

Table 7-76. Frequency Stability Graph (n258)

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Frequency Stability Measurements (Band n261)

§2.1055

OPERATING FREQUENCY: 27,924,960,000 Hz

CHANNEL: 2077915

VOLTAGE (%)	POWER (VDC)	TEMP (^{0}C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		+ 20 (Ref)	27,925,674,496	0	0.0000000
100 %		- 30	27,925,675,666	1,170	0.0000042
100 %		- 20	27,925,611,423	-63,073	-0.0002259
100 %		- 10	27,925,662,614	-11,882	-0.0000425
100 %		0	27,925,659,538	-14,958	-0.0000536
100 %		+ 10	27,925,672,290	-2,206	-0.0000079
100 %		+ 30	27,925,673,666	-830	-0.0000030
100 %		+ 40	27,925,679,987	5,491	0.0000197
100 %		+ 50	27,925,680,244	5,748	0.0000206
BATT. ENDPOINT		+ 20	27,925,681,222	6,726	0.0000241

Table 7-77. Frequency Stability Data (n261)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability Measurements (Band n261)

§2.1055

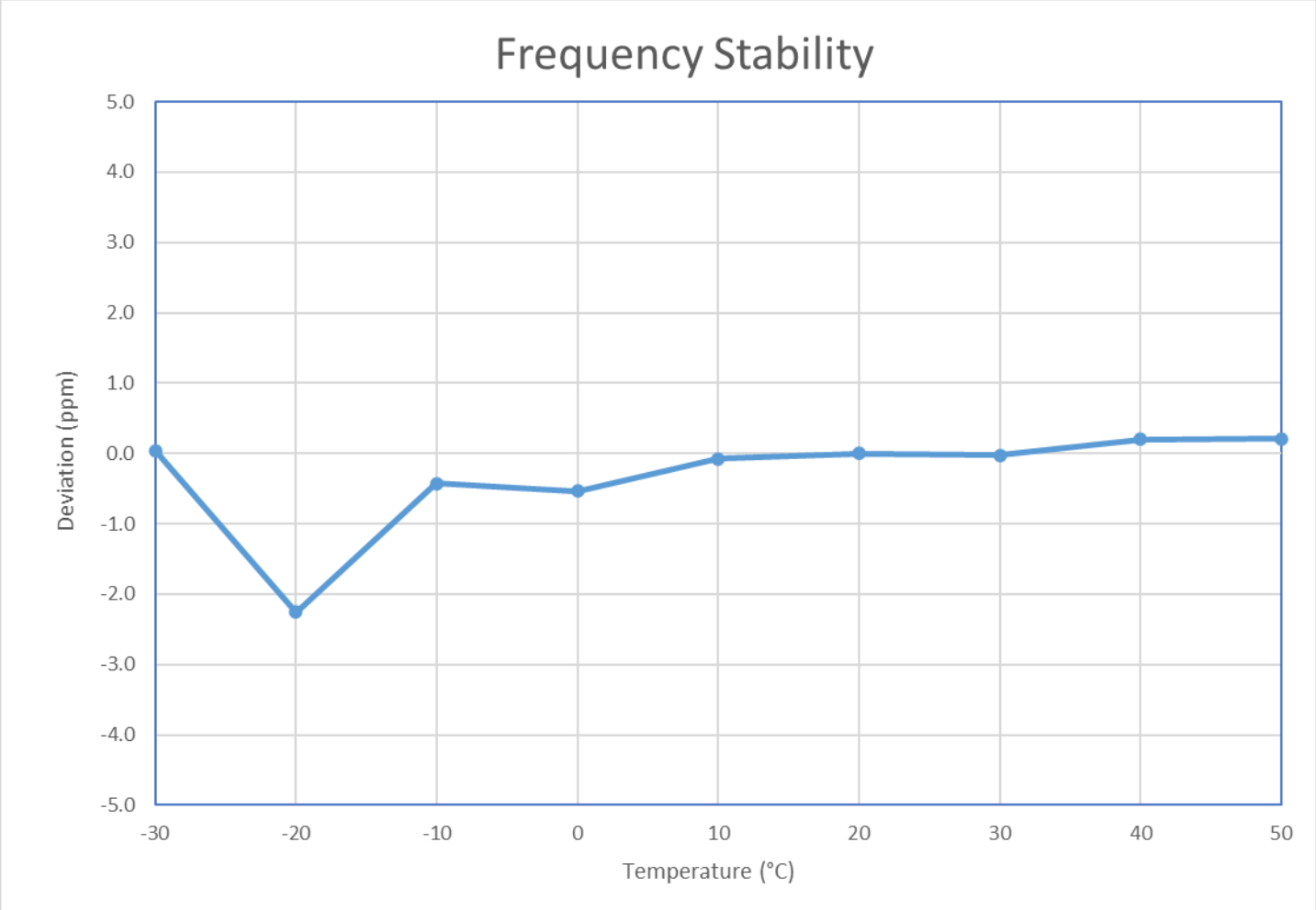

Table 7-78. Frequency Stability Graph (n261)

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Frequency Stability Measurements (Band n260)

§2.1055

OPERATING FREQUENCY: 38,499,960,000 Hz

CHANNEL: 2254165

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %		+ 20 (Ref)	38,500,605,185	0	0.0000000
100 %		- 30	38,500,602,111	-3,074	-0.0000080
100 %		- 20	38,500,651,153	45,968	0.0001194
100 %		- 10	38,500,643,381	38,196	0.0000992
100 %		0	38,500,614,496	9,311	0.0000242
100 %		+ 10	38,500,581,962	-23,223	-0.0000603
100 %		+ 30	38,500,610,444	5,259	0.0000137
100 %		+ 40	38,500,609,222	4,037	0.0000105
100 %		+ 50	38,500,601,044	-4,141	-0.0000108
BATT. ENDPOINT		+ 20	38,500,606,366	1,181	0.0000031

Table 7-79. Frequency Stability Data (n260)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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