



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart phone

Test Model: Smooth 5.5 Max

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





C.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2408.000	2416.040	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.280	2453.840	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS



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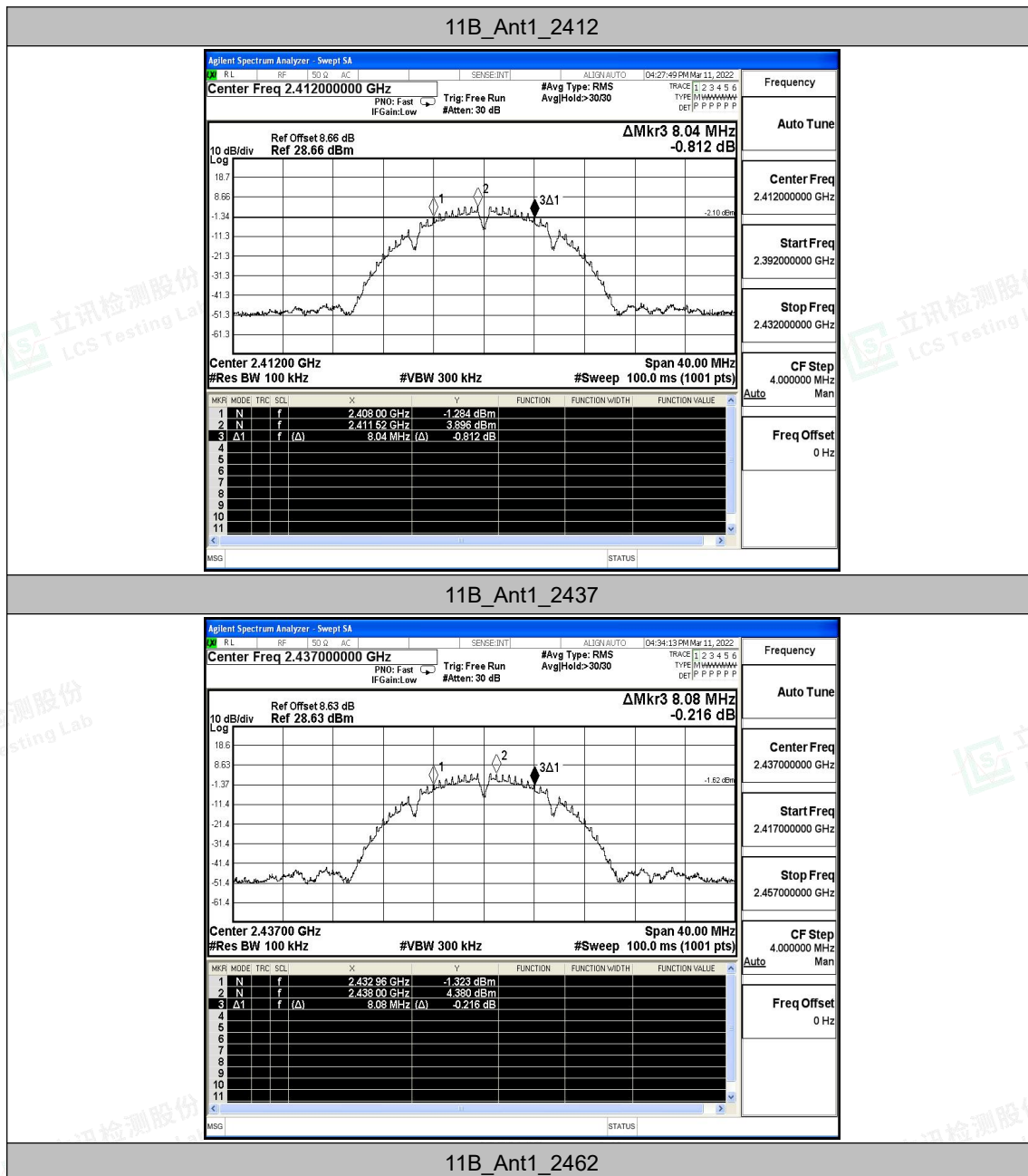
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Test Graphs

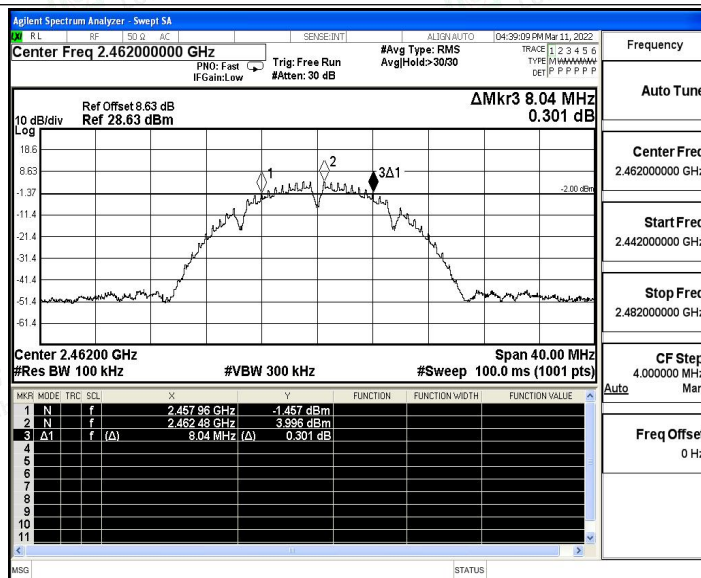


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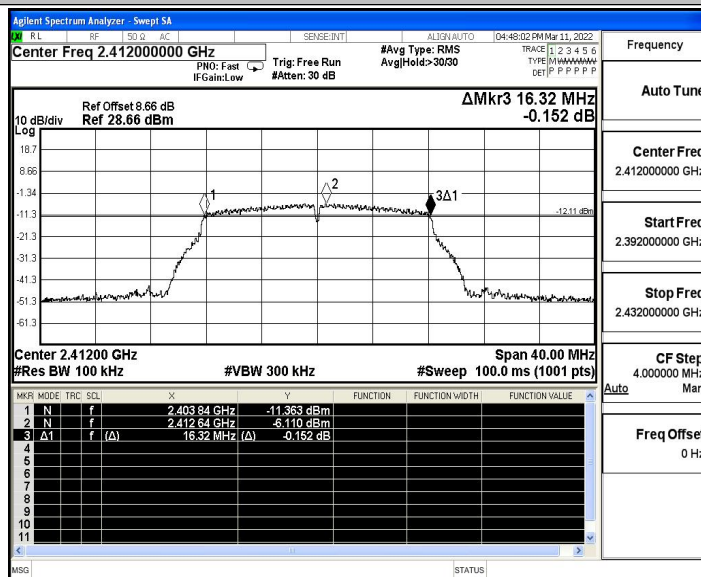
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11G_Ant1_2412



11G_Ant1_2437

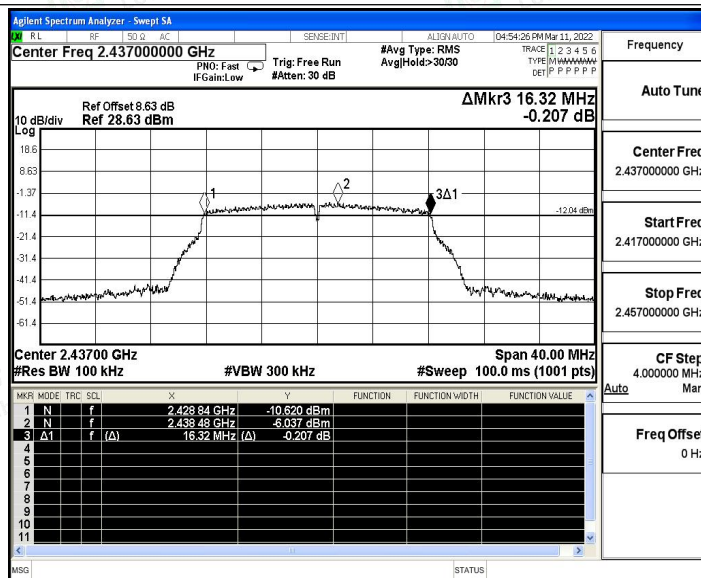


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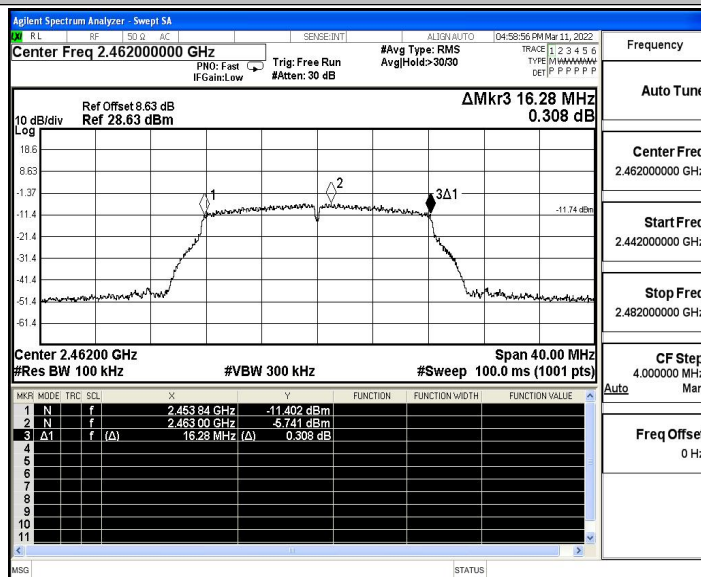
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11G_Ant1_2462



11N20SISO_Ant1_2412

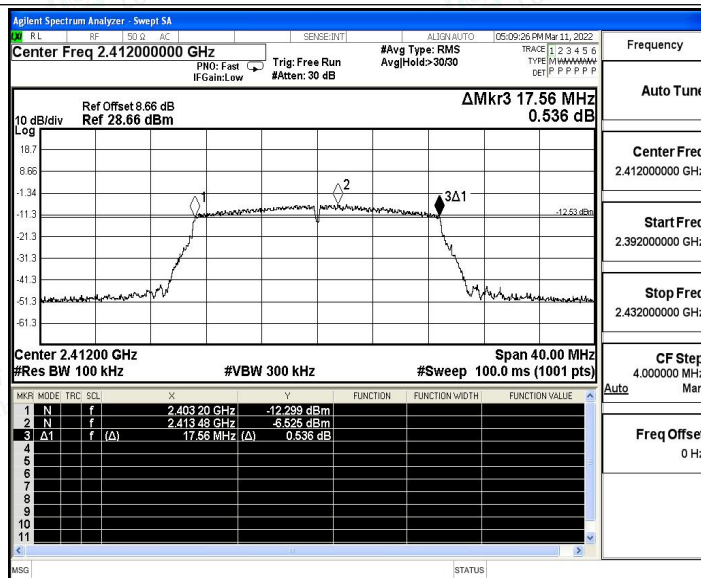


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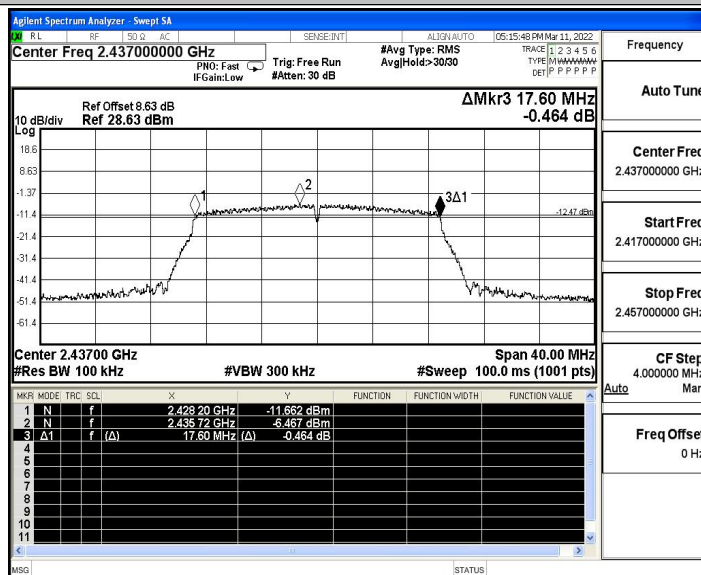
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

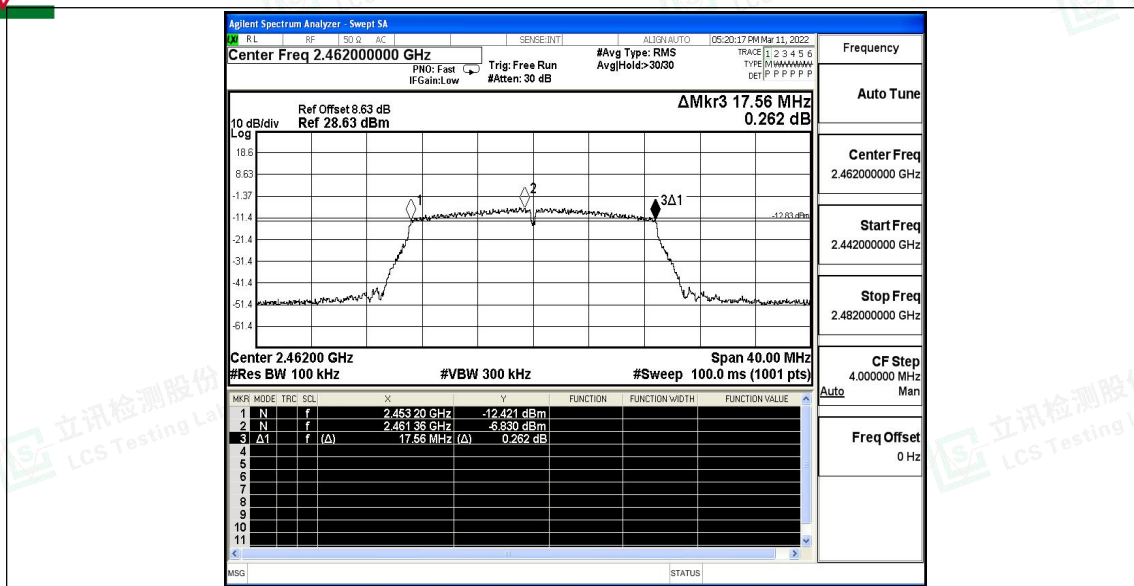


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.98	≤30.00	PASS
		2437	15.38	≤30.00	PASS
		2462	15.06	≤30.00	PASS
11G	Ant1	2412	14.89	≤30.00	PASS
		2437	15.27	≤30.00	PASS
		2462	14.76	≤30.00	PASS
11N20SISO	Ant1	2412	14.54	≤30.00	PASS
		2437	14.96	≤30.00	PASS
		2462	14.38	≤30.00	PASS



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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.17	≤8.00	PASS
		2437	-10.12	≤8.00	PASS
		2462	-10.67	≤8.00	PASS
11G	Ant1	2412	-18.27	≤8.00	PASS
		2437	-17.39	≤8.00	PASS
		2462	-18.53	≤8.00	PASS
11N20SISO	Ant1	2412	-17.58	≤8.00	PASS
		2437	-17.76	≤8.00	PASS
		2462	-19.41	≤8.00	PASS



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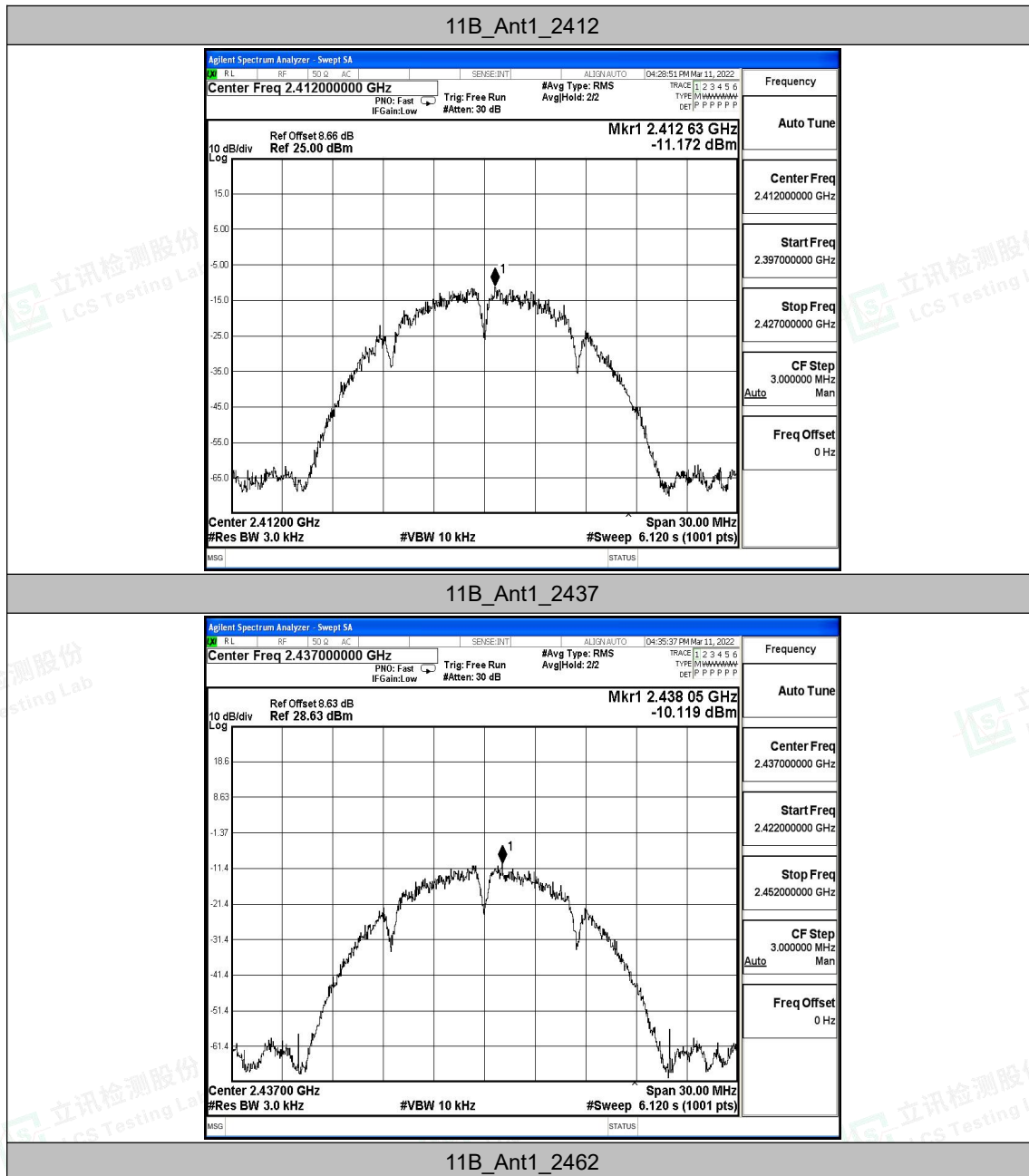
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Test Graphs

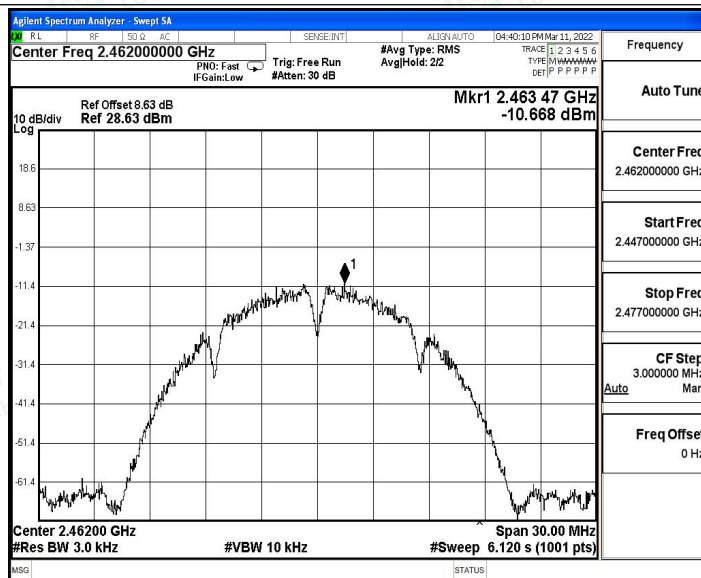


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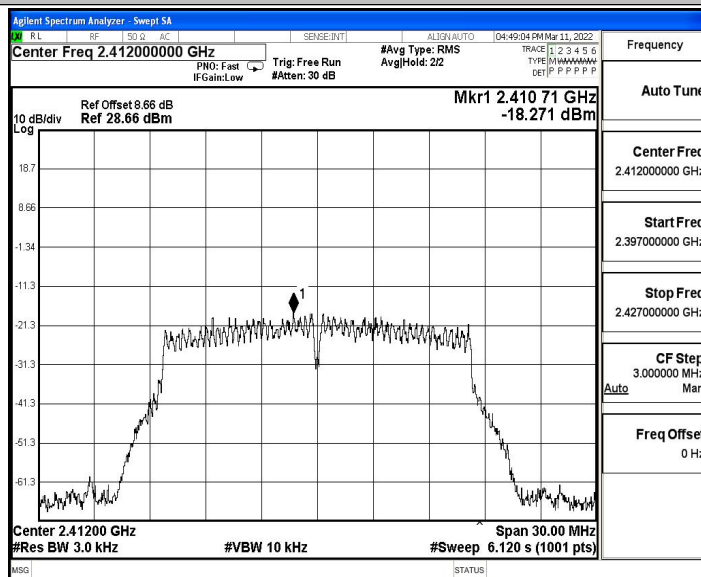
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11G_Ant1_2412



11G_Ant1_2437

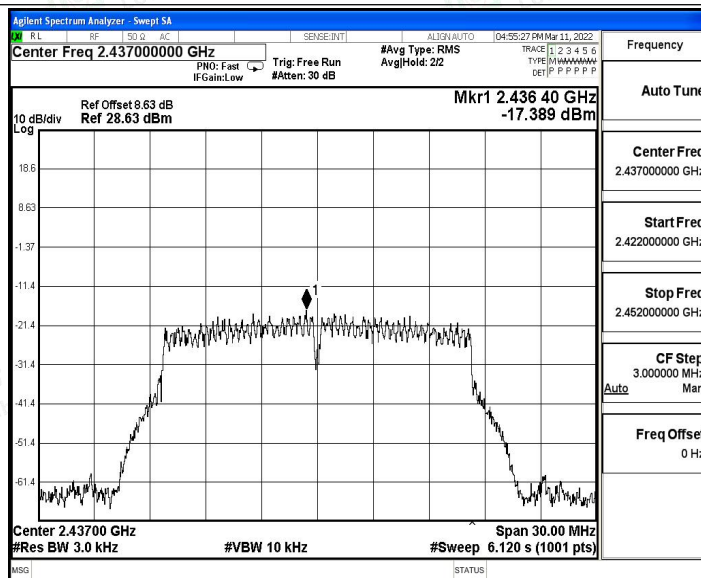


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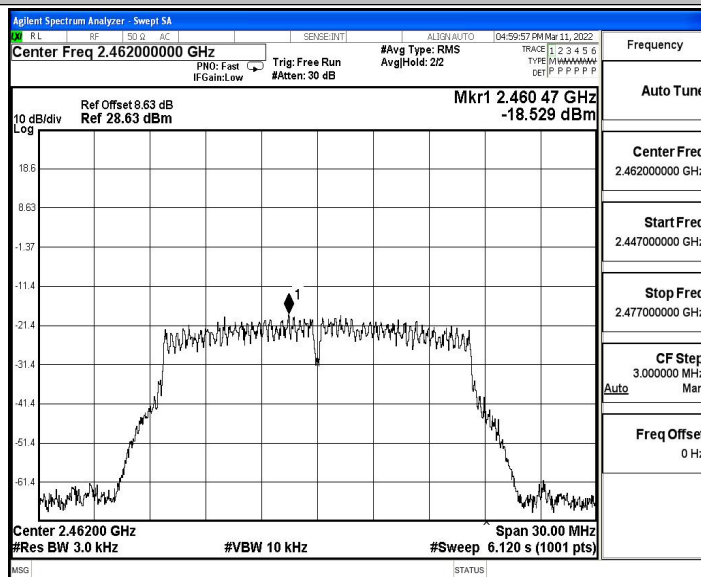
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11G_Ant1_2462



11N20SISO_Ant1_2412

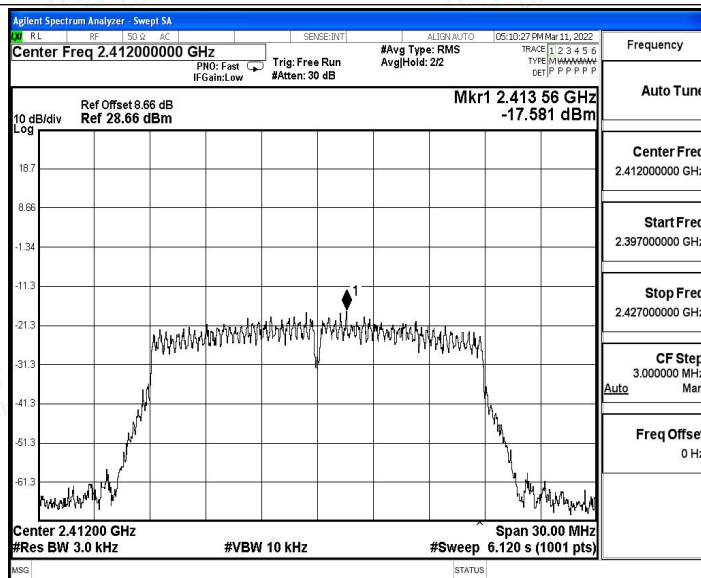


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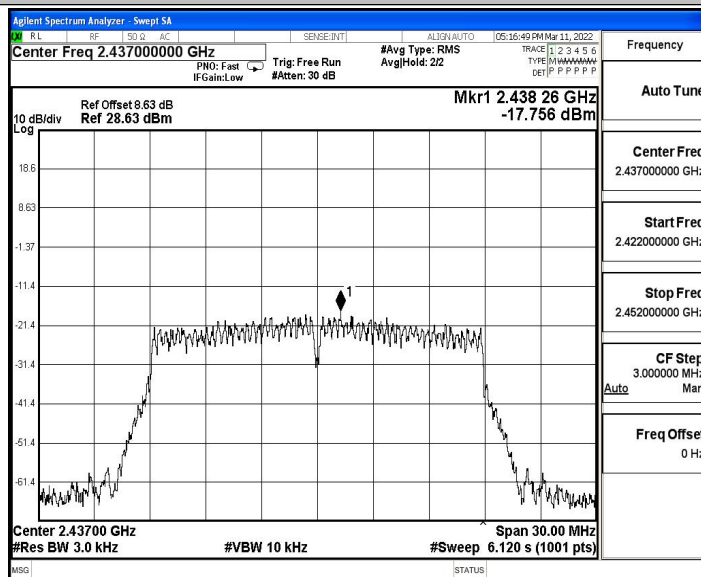
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

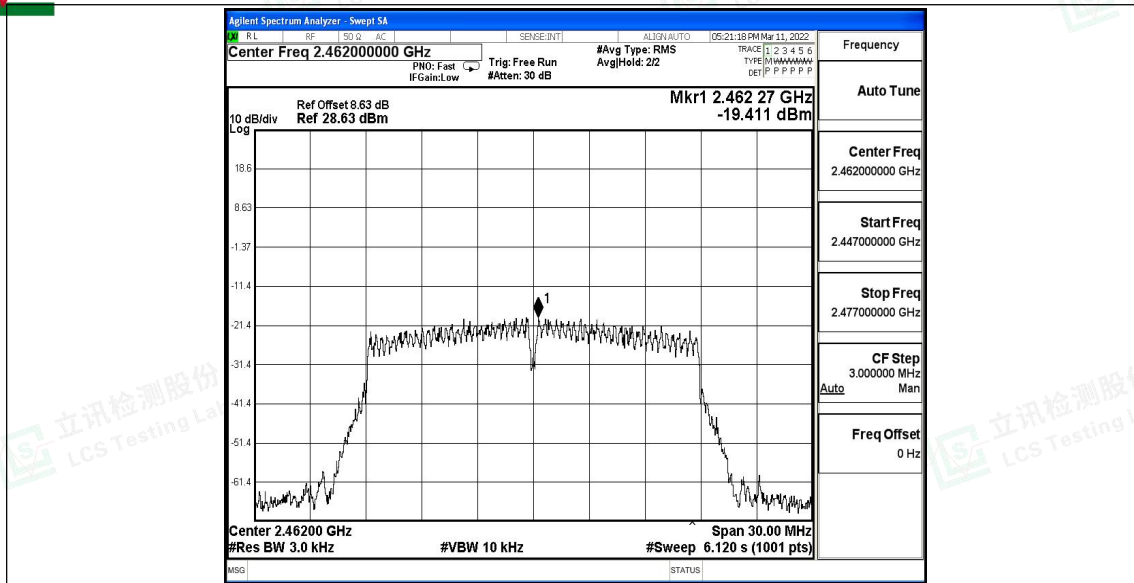


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C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.05	-46.65	≤ -15.95	PASS
		High	2462	4.25	-48.01	≤ -15.75	PASS
11G	Ant1	Low	2412	-6.07	-46.08	≤ -26.07	PASS
		High	2462	-6.03	-47.85	≤ -26.03	PASS
11N20SISO	Ant1	Low	2412	-6.78	-45.69	≤ -26.78	PASS
		High	2462	-7.04	-48.33	≤ -27.04	PASS



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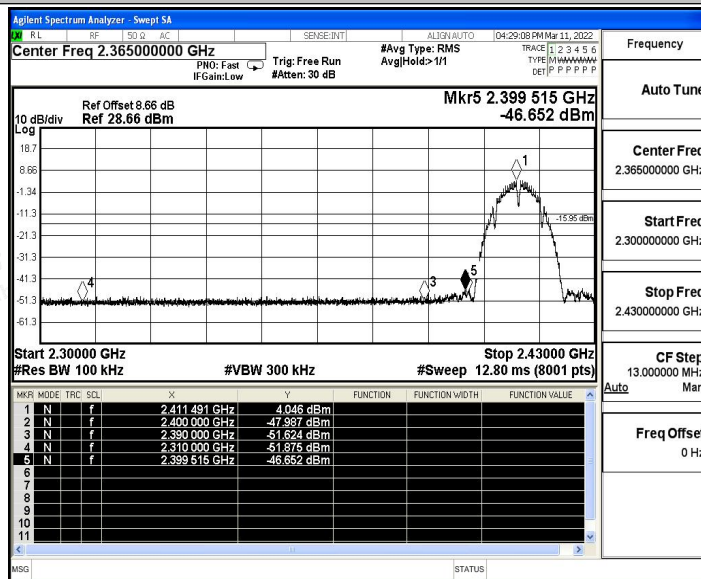
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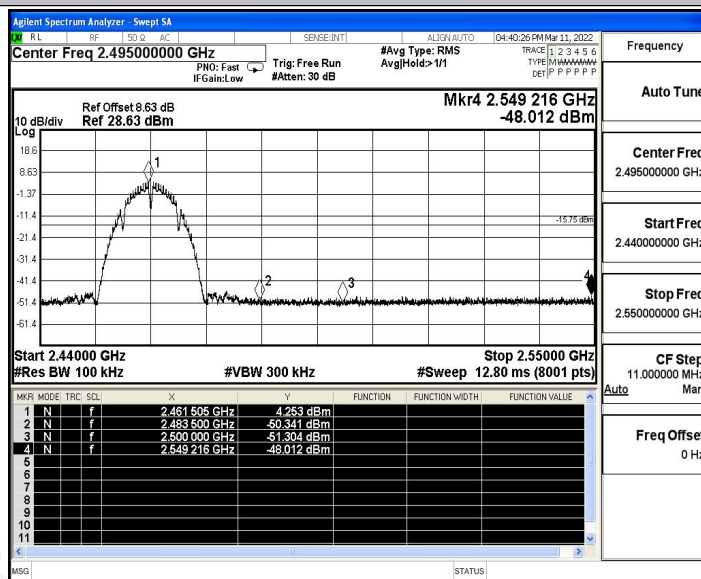


Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

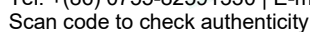
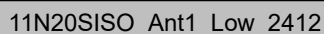
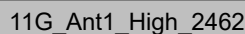


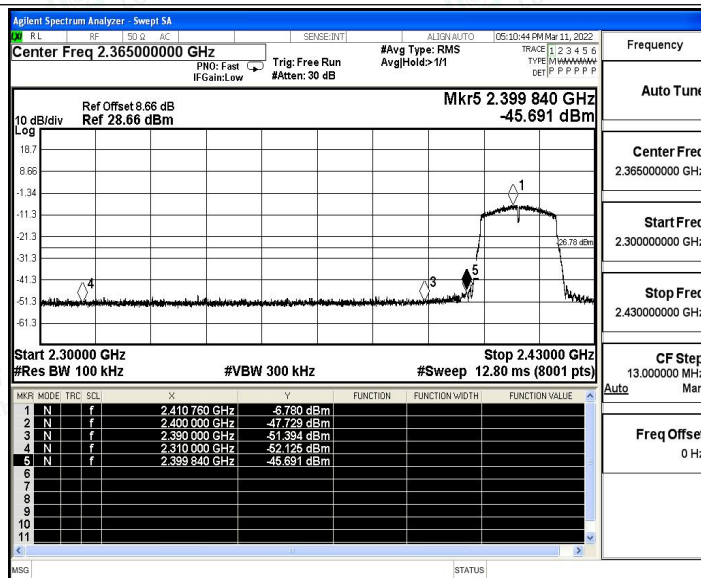
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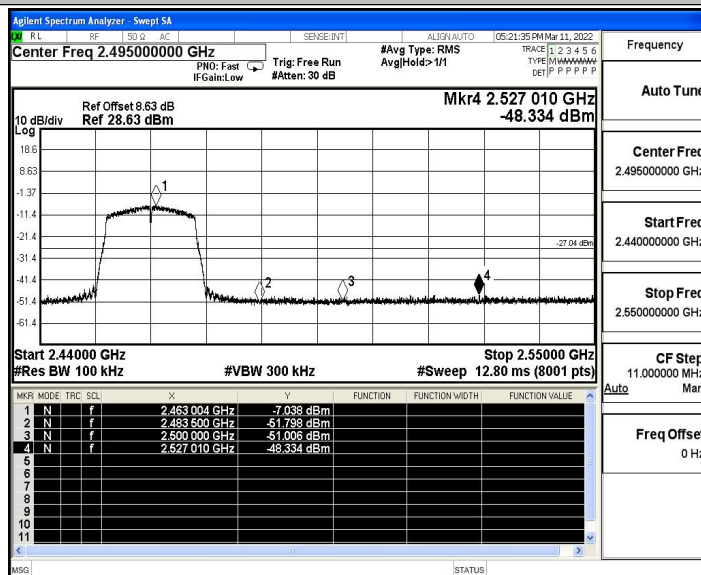
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11N20SISO_Ant1_High_2462



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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-59.47	≤-15.83	PASS
			1000~26500	4.17	-46.13	≤-15.83	PASS
		2437	Reference	4.56	4.56	---	PASS
			30~1000	4.56	-58.68	≤-15.44	PASS
			1000~26500	4.56	-46.65	≤-15.44	PASS
		2462	Reference	3.99	3.99	---	PASS
			30~1000	3.99	-56.5	≤-16.01	PASS
			1000~26500	3.99	-45.98	≤-16.01	PASS
11G	Ant1	2412	Reference	-6.27	-6.27	---	PASS
			30~1000	-6.27	-54.94	≤-26.27	PASS
			1000~26500	-6.27	-46.19	≤-26.27	PASS
		2437	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-58.1	≤-26.08	PASS
			1000~26500	-6.08	-45.4	≤-26.08	PASS
		2462	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-58.69	≤-25.91	PASS
			1000~26500	-5.91	-46.2	≤-25.91	PASS
11N20SISO	Ant1	2412	Reference	-6.81	-6.81	---	PASS
			30~1000	-6.81	-58.29	≤-26.81	PASS
			1000~26500	-6.81	-46.26	≤-26.81	PASS
		2437	Reference	-6.40	-6.40	---	PASS
			30~1000	-6.40	-54.4	≤-26.4	PASS
			1000~26500	-6.40	-45.97	≤-26.4	PASS
		2462	Reference	-6.74	-6.74	---	PASS
			30~1000	-6.74	-51.07	≤-26.74	PASS
			1000~26500	-6.74	-46.66	≤-26.74	PASS
			30~1000	-9.33	-57.91	≤-29.33	PASS
			1000~26500	-9.33	-45.49	≤-29.33	PASS



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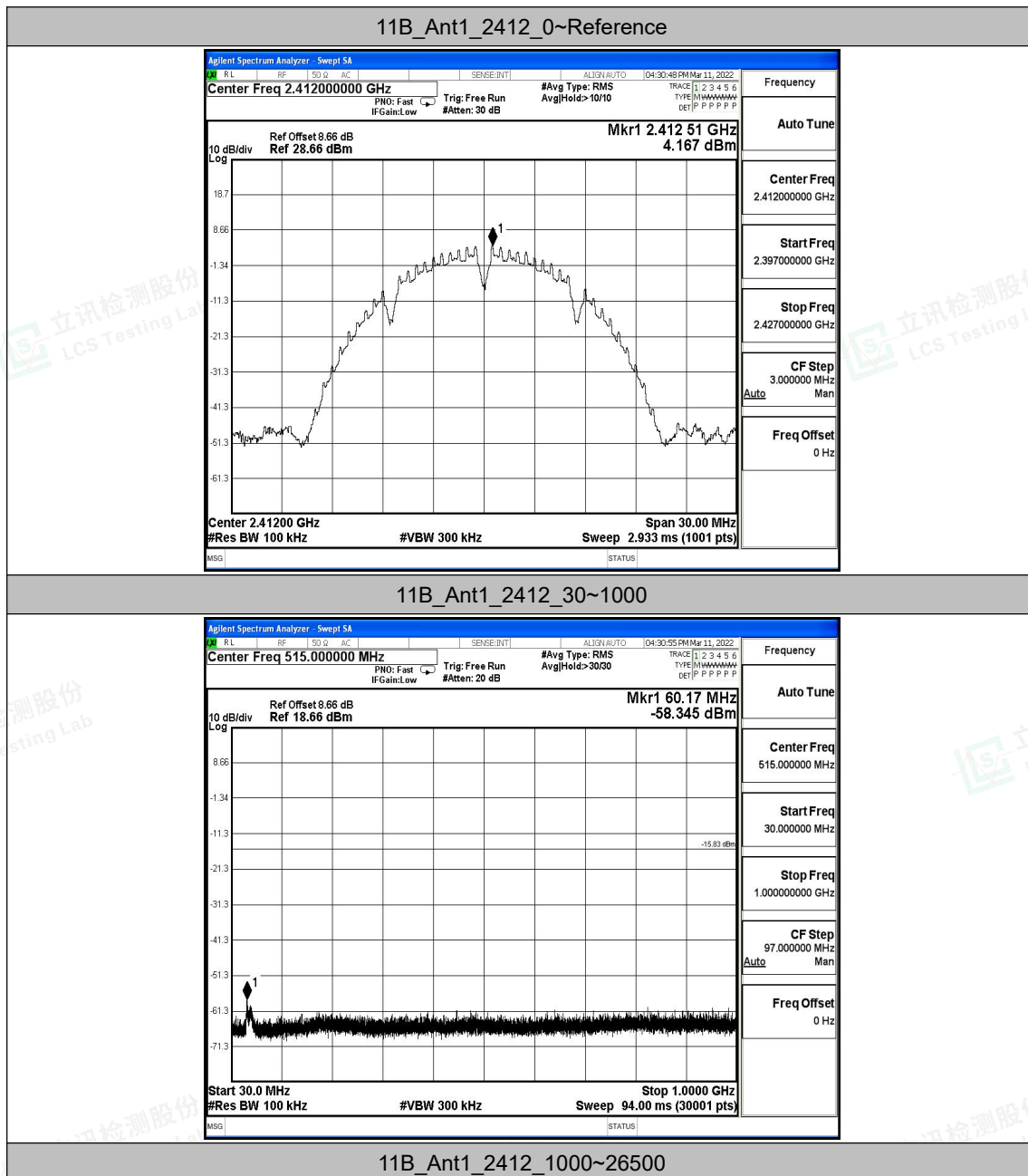
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Test Graphs

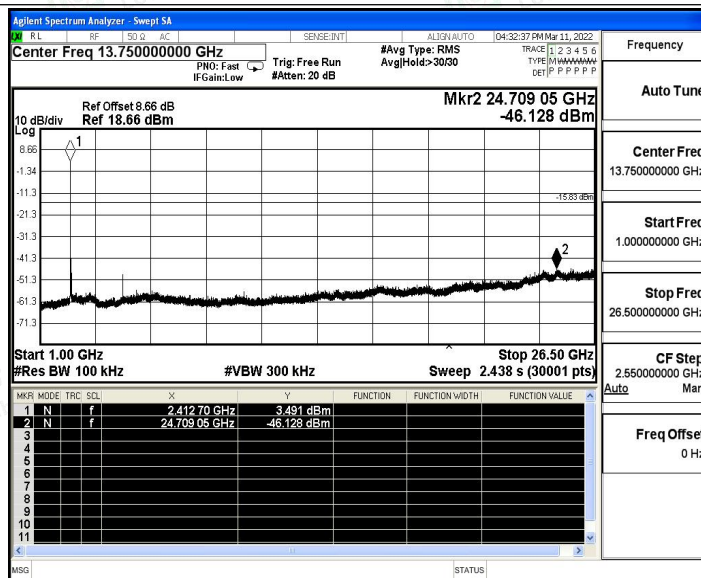


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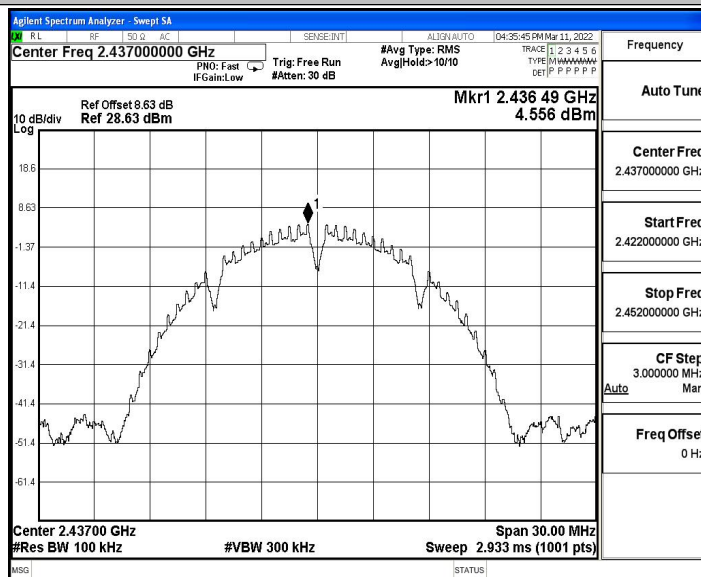
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

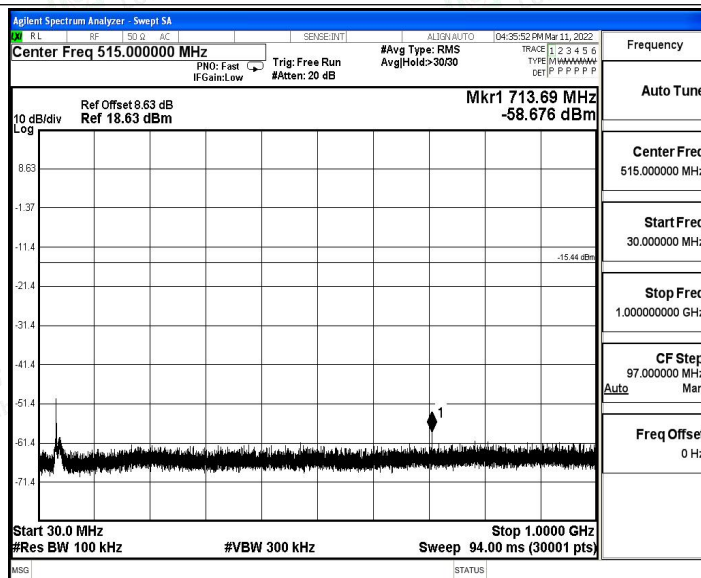


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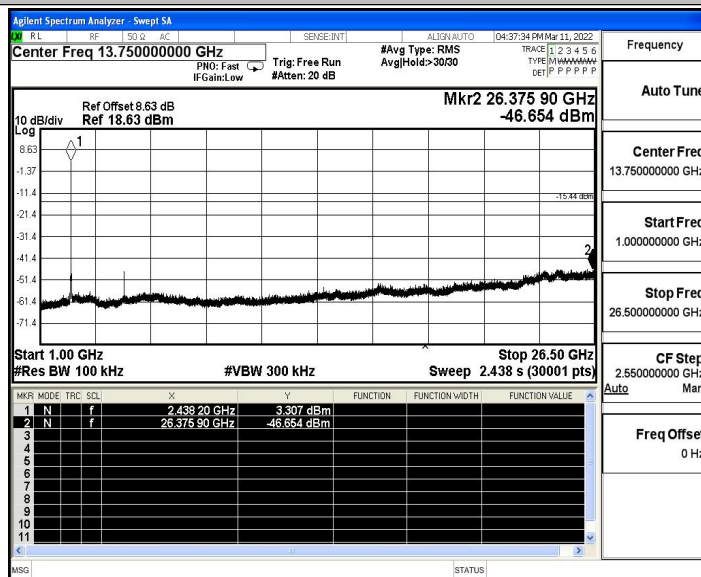
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

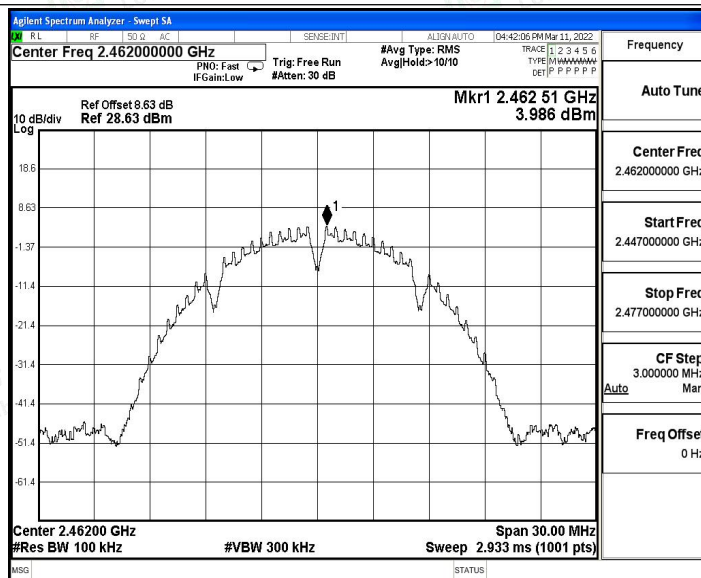


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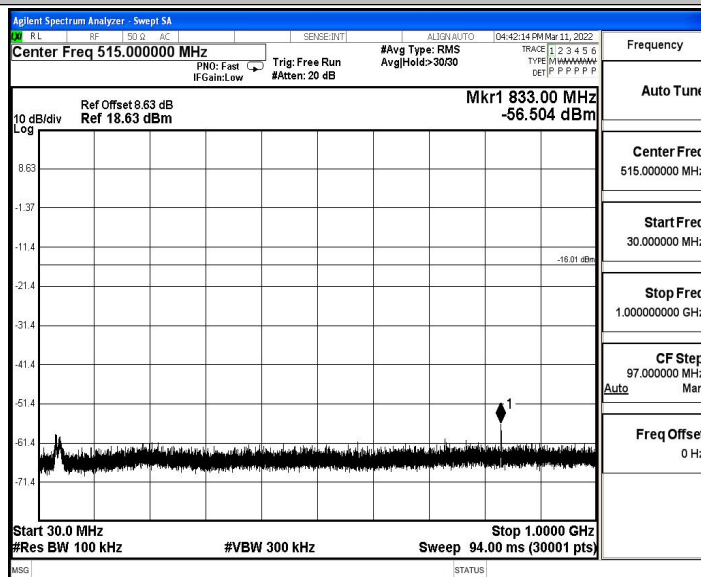
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

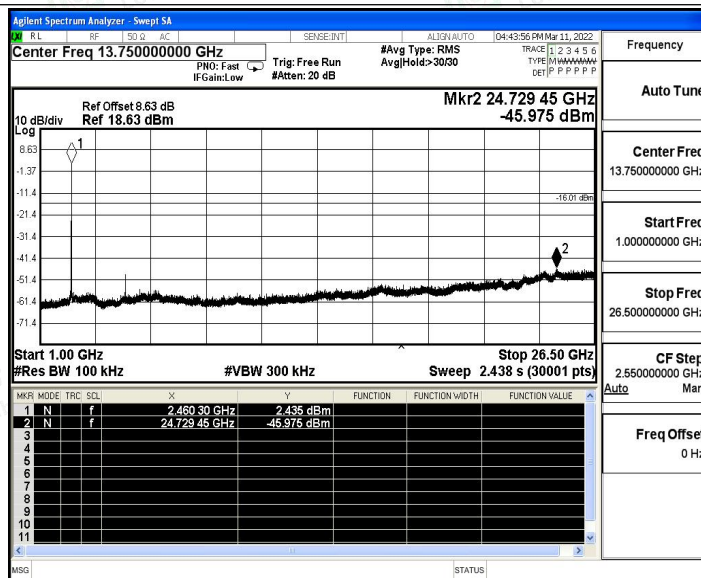


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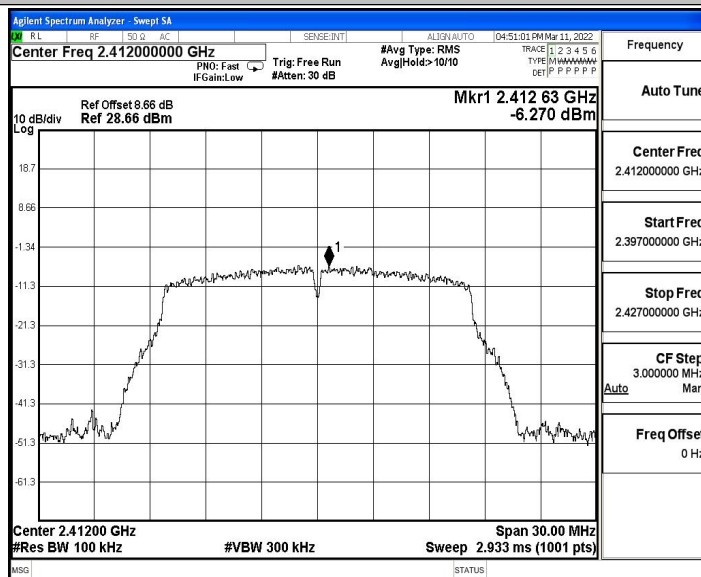
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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



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