Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: MOBILE PHONE

Test Model: PADUA

Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

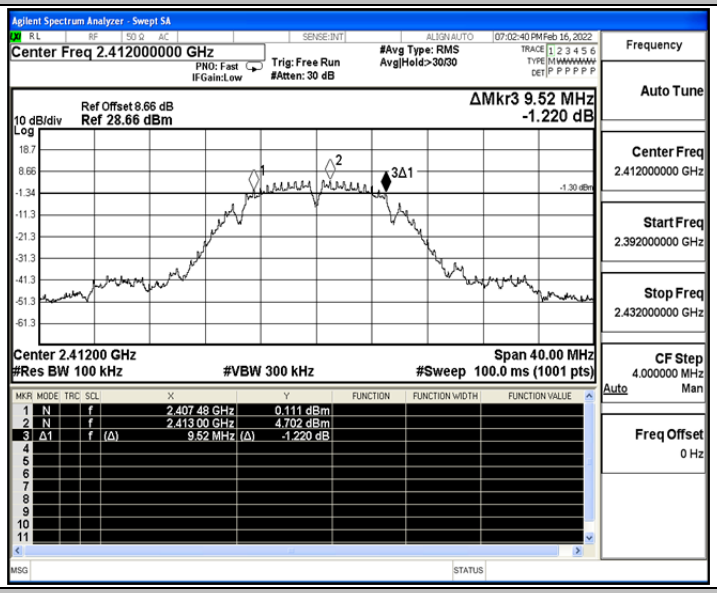
C.1 DTS Bandwidth

Test Result

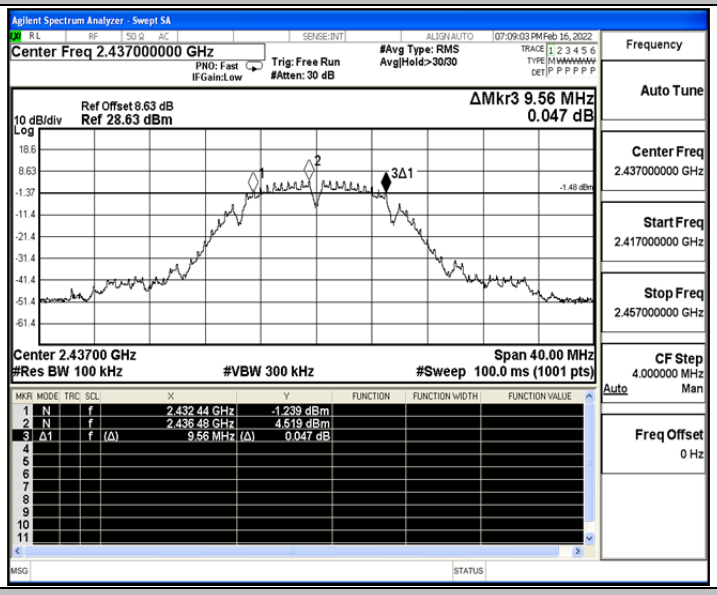
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.480	2417.000	0.5	PASS
		2437	9.560	2432.440	2442.000	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	36.080	2419.080	2455.160	0.5	PASS
		2452	35.840	2434.080	2469.920	0.5	PASS

Test Graphs

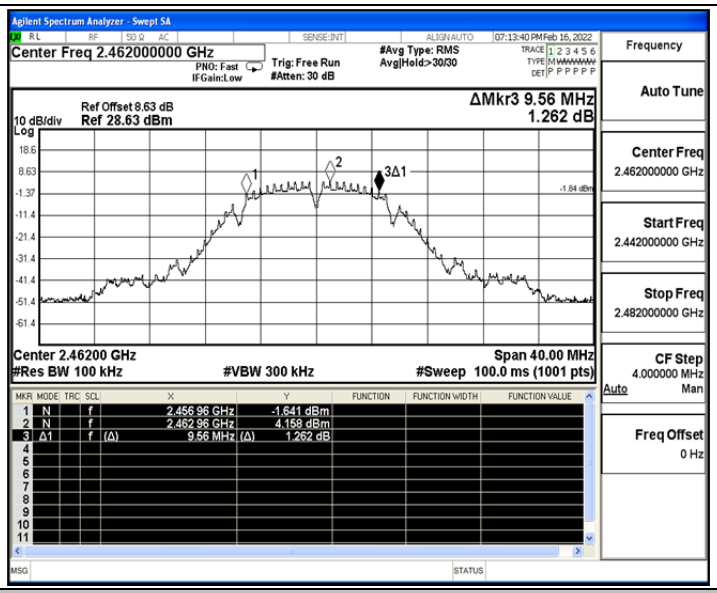
11B_Ant1_2412



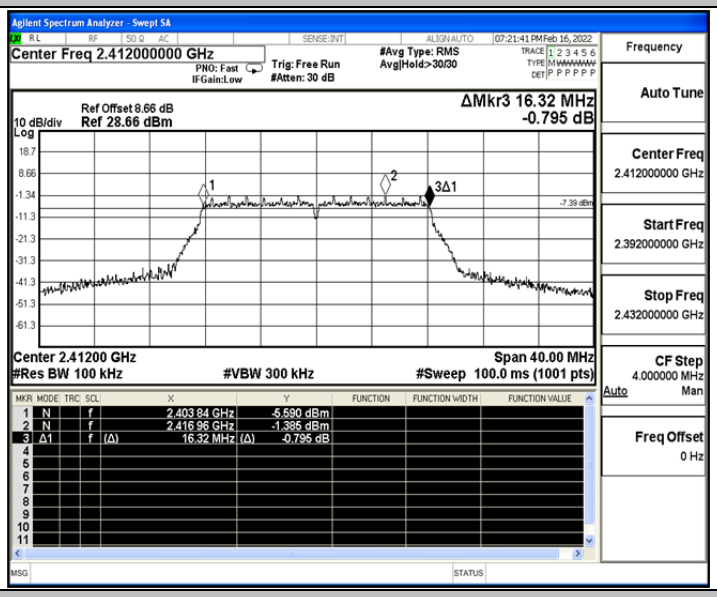
11B_Ant1_2437



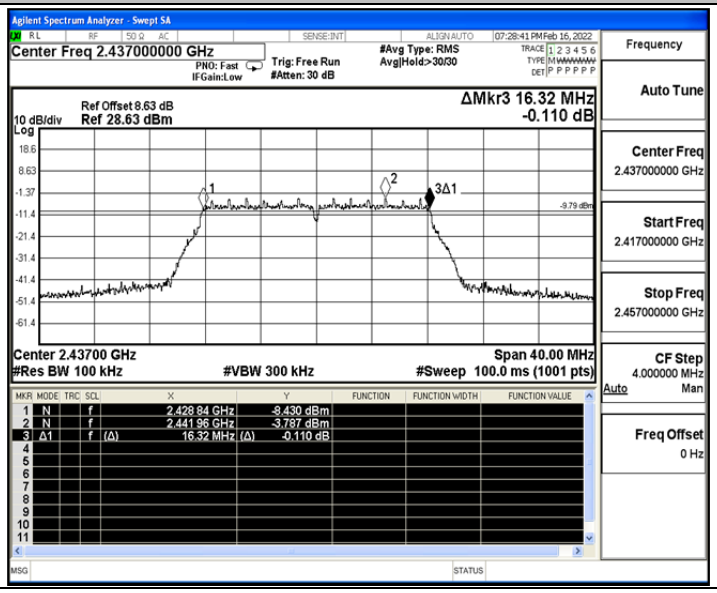
11B_Ant1_2462



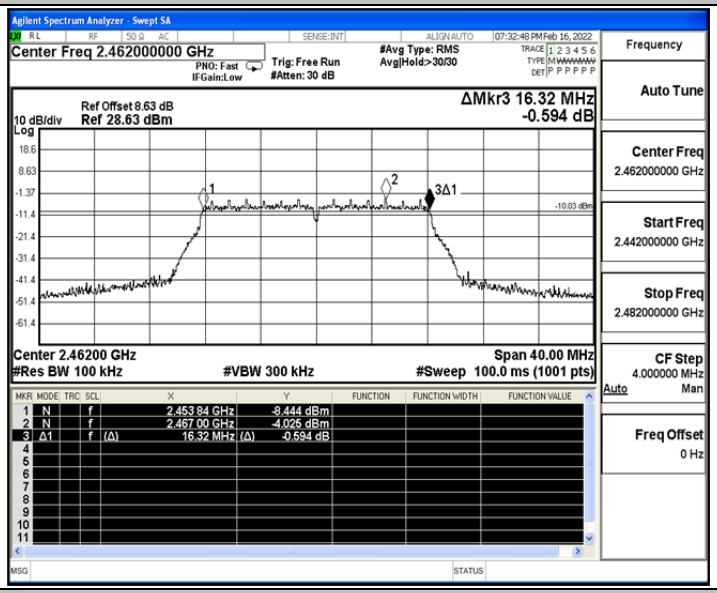
11G_Ant1_2412



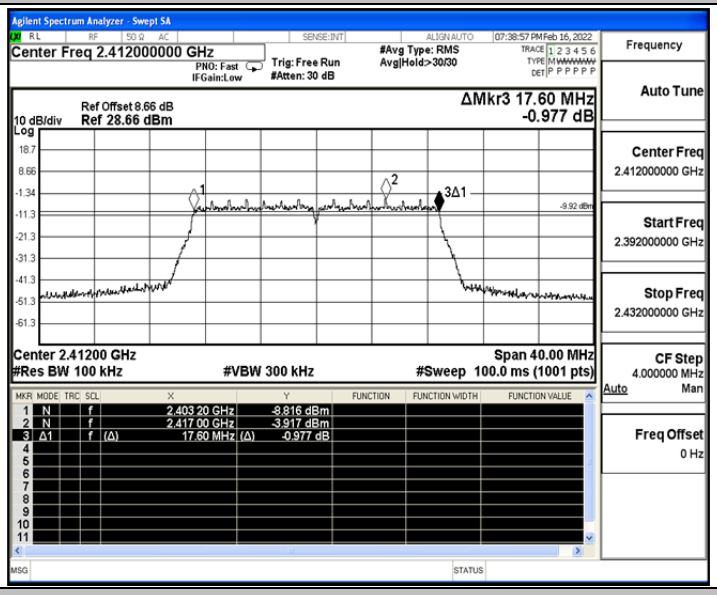
11G_Ant1_2437



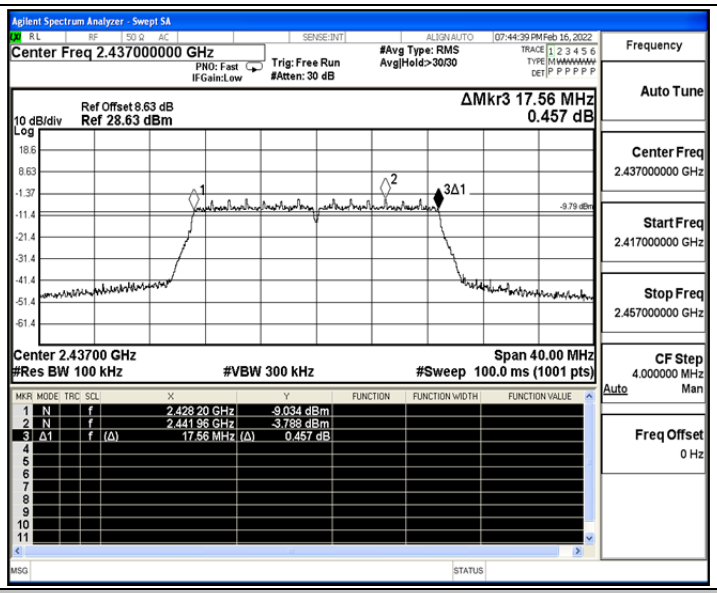
11G_Ant1_2462



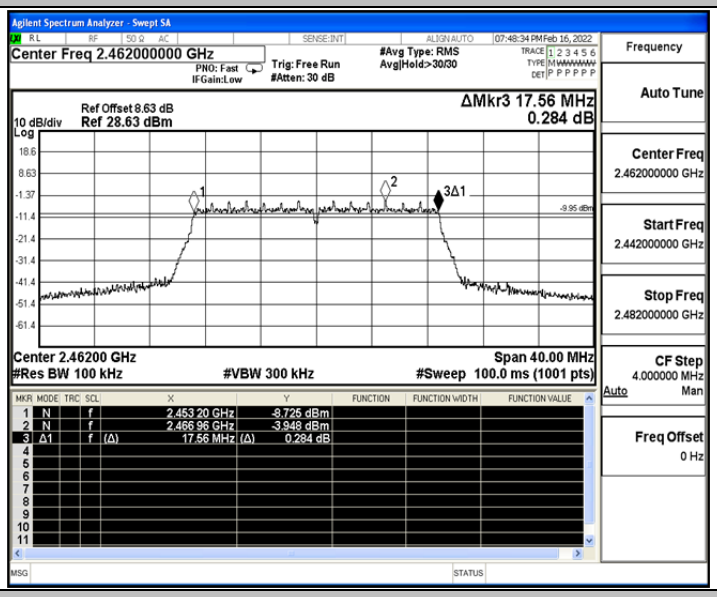
11N20SISO_Ant1_2412



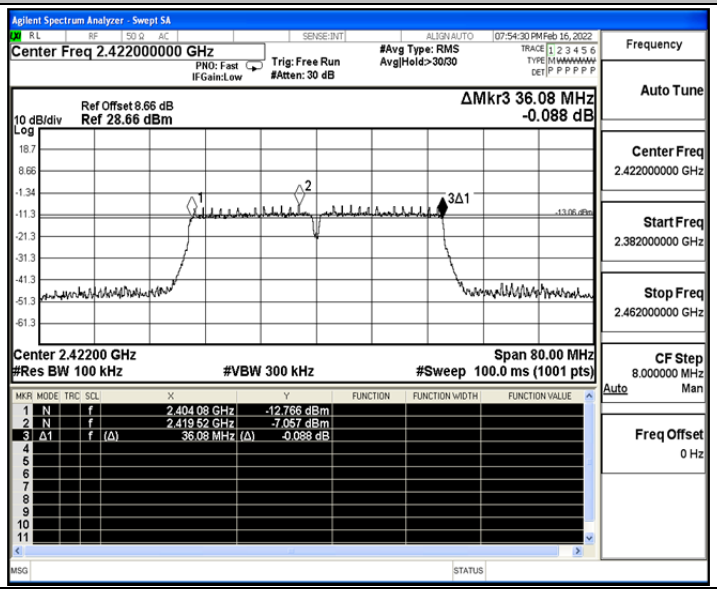
11N20SISO_Ant1_2437



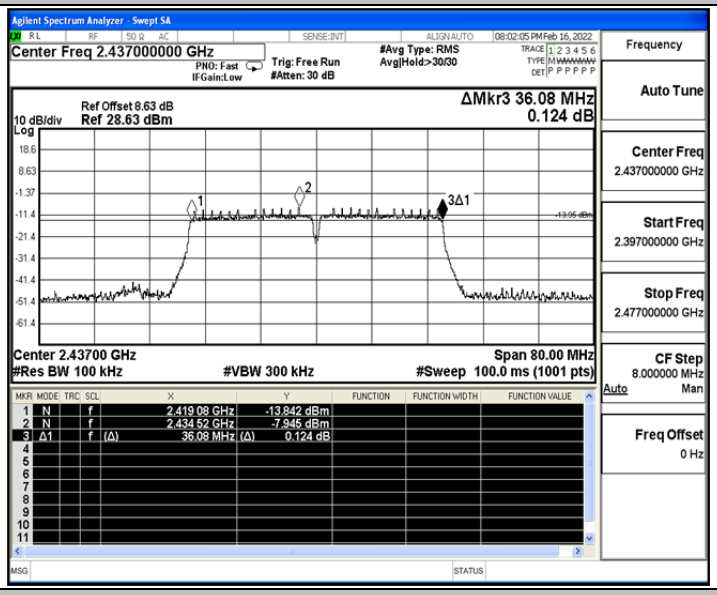
11N20SISO_Ant1_2462



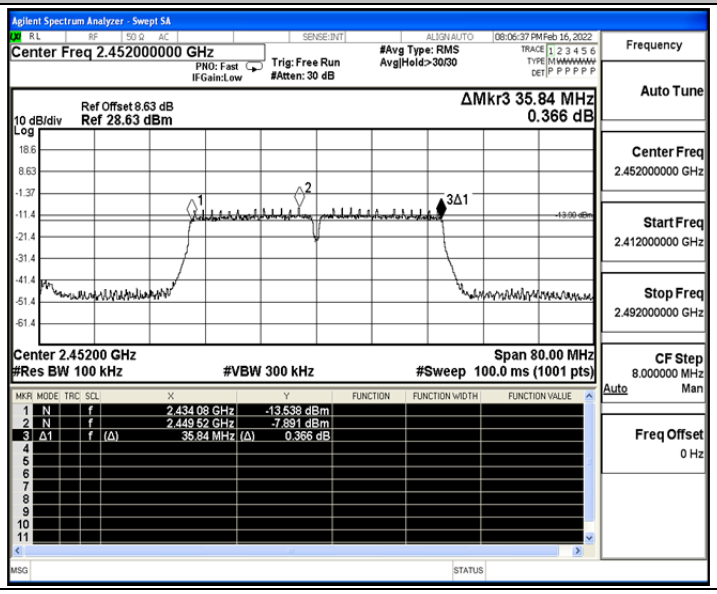
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.2 Maximum peak conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.42	≤30.00	PASS
		2437	16.25	≤30.00	PASS
		2462	16.02	≤30.00	PASS
11G	Ant1	2412	15.65	≤30.00	PASS
		2437	15.65	≤30.00	PASS
		2462	15.45	≤30.00	PASS
11N20SISO	Ant1	2412	15.56	≤30.00	PASS
		2437	15.68	≤30.00	PASS
		2462	15.52	≤30.00	PASS
11N40SISO	Ant1	2422	14.37	≤30.00	PASS
		2437	14.30	≤30.00	PASS
		2452	14.36	≤30.00	PASS

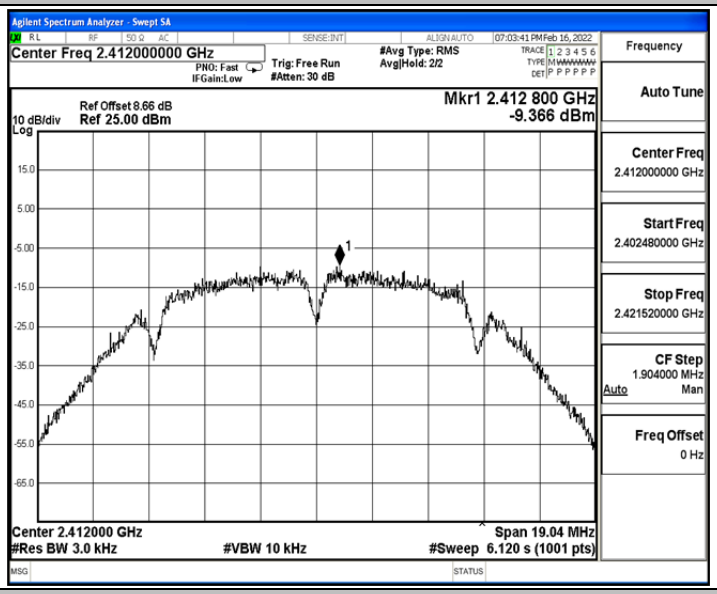
C.3 Maximum power spectral density

Test Result

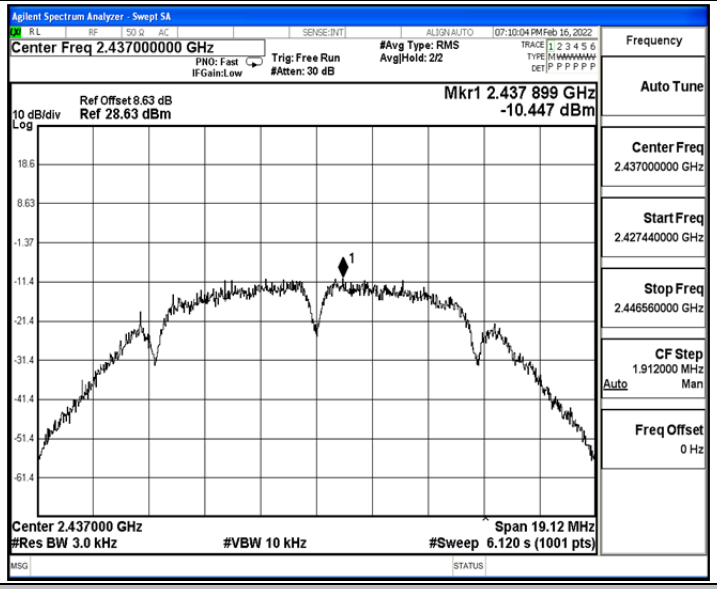
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.37	≤8.00	PASS
		2437	-10.45	≤8.00	PASS
		2462	-10.21	≤8.00	PASS
11G	Ant1	2412	-18.73	≤8.00	PASS
		2437	-17.49	≤8.00	PASS
		2462	-18.68	≤8.00	PASS
11N20SISO	Ant1	2412	-17.9	≤8.00	PASS
		2437	-18.23	≤8.00	PASS
		2462	-18.51	≤8.00	PASS
11N40SISO	Ant1	2422	-22.42	≤8.00	PASS
		2437	-21.28	≤8.00	PASS
		2452	-22.87	≤8.00	PASS

Test Graphs

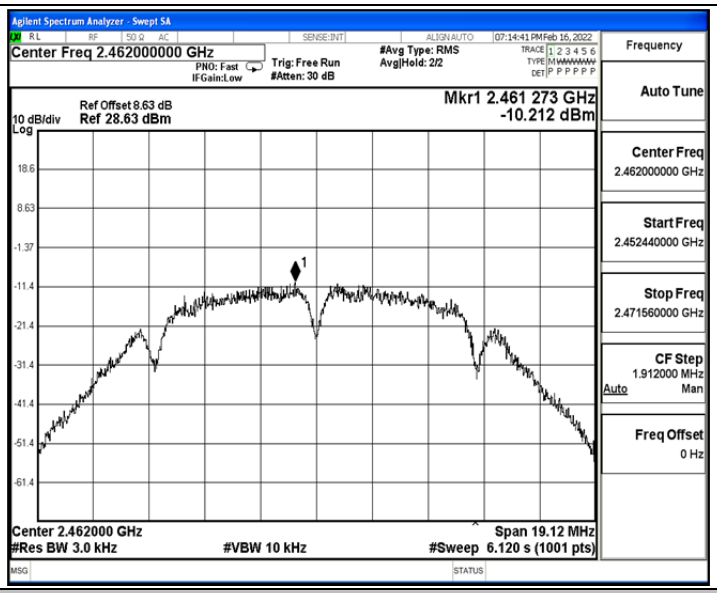
11B_Ant1_2412



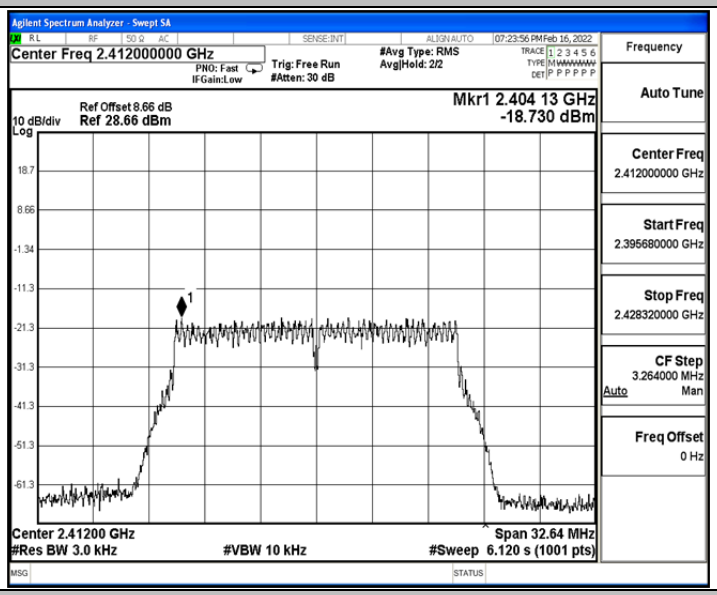
11B_Ant1_2437



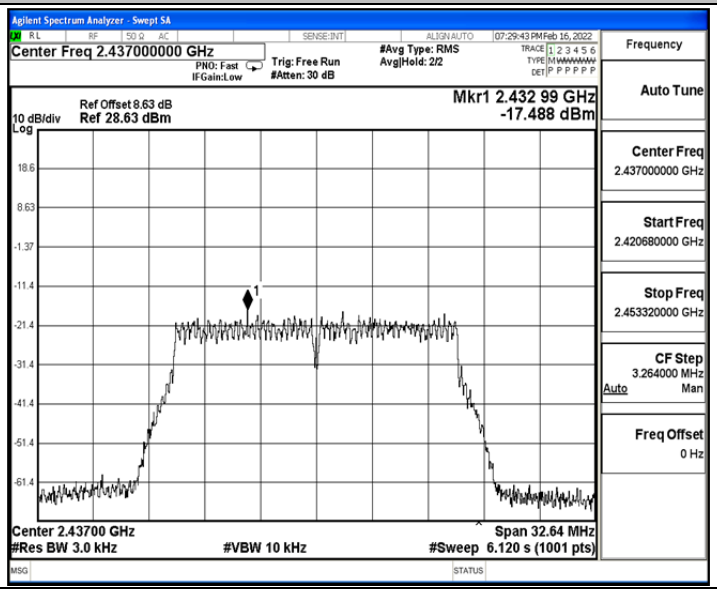
11B_Ant1_2462



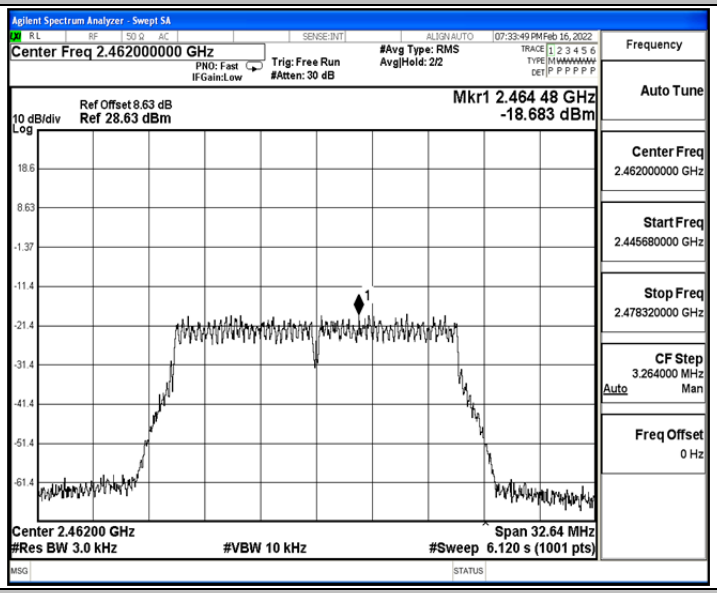
11G_Ant1_2412



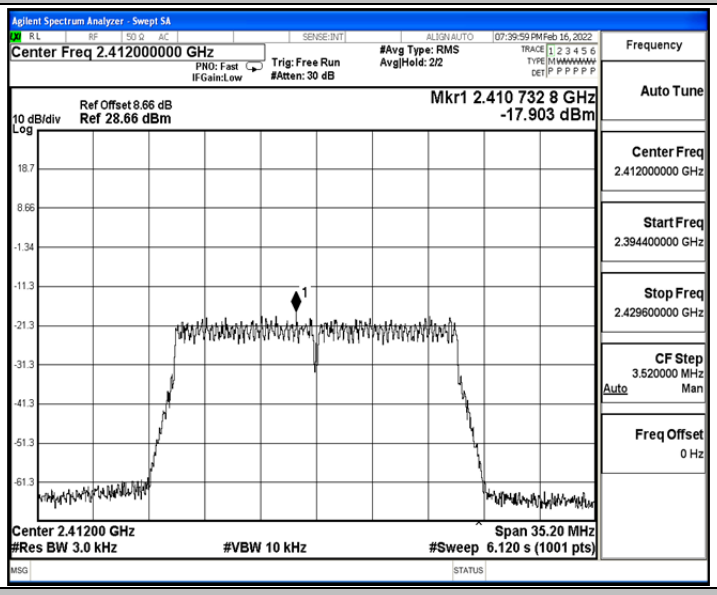
11G_Ant1_2437



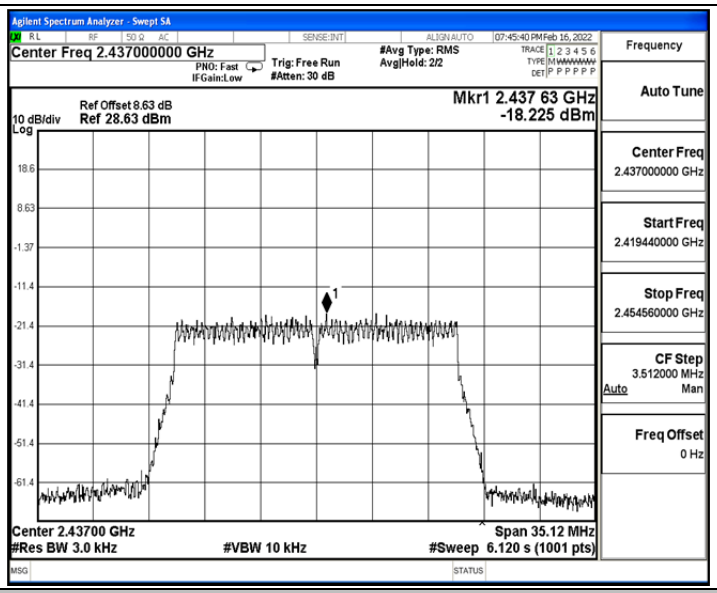
11G_Ant1_2462



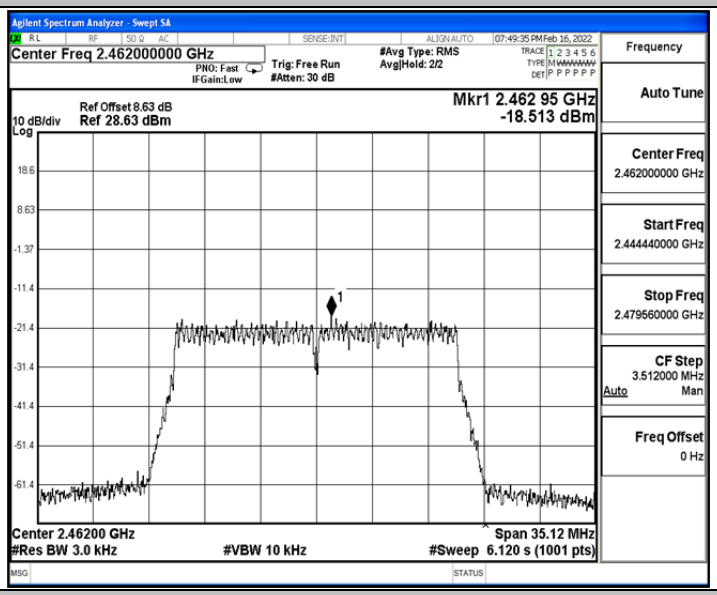
11N20SISO_Ant1_2412



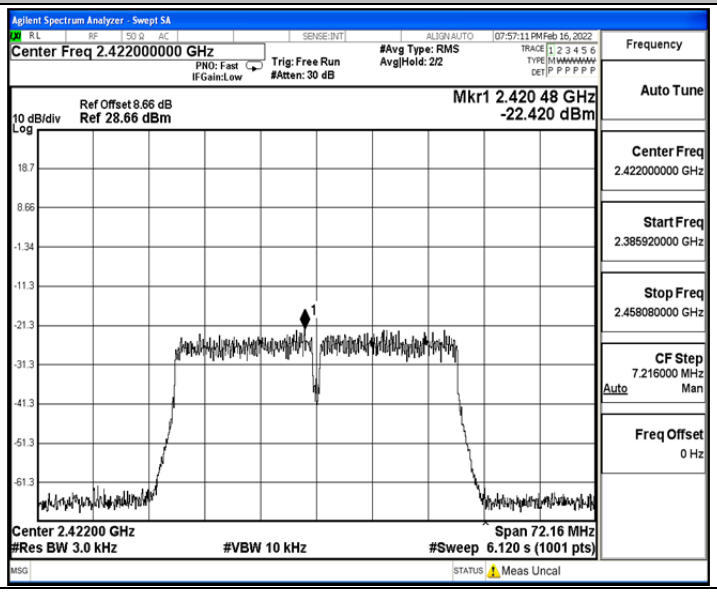
11N20SISO_Ant1_2437



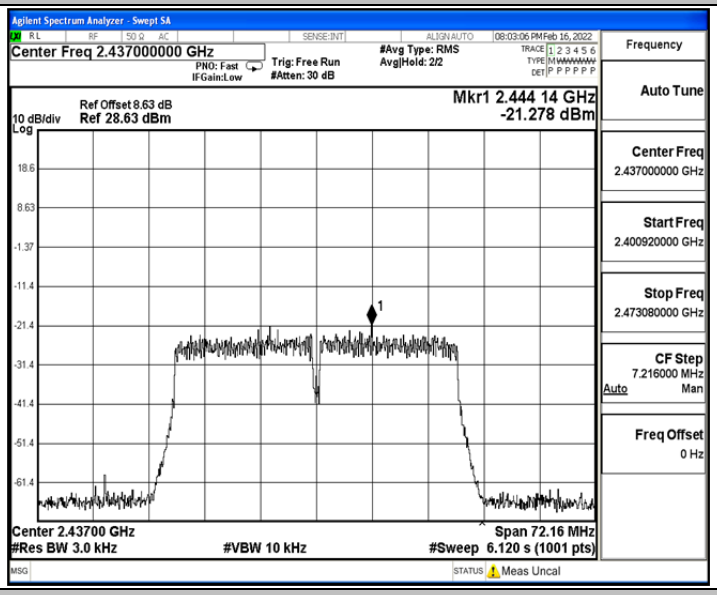
11N20SISO_Ant1_2462



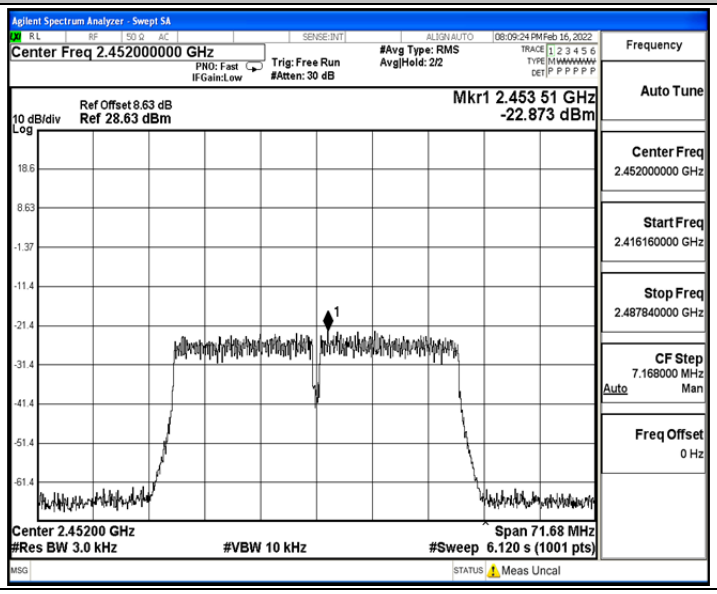
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



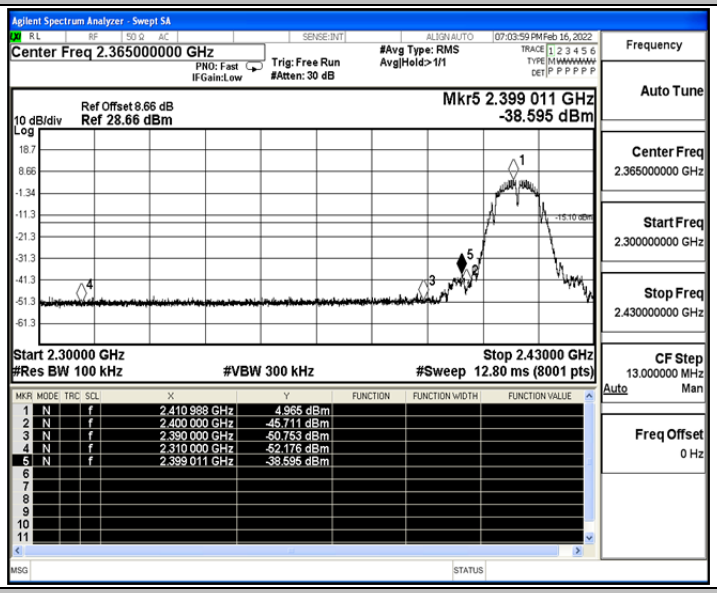
C.4 Band edge measurements

Test Result

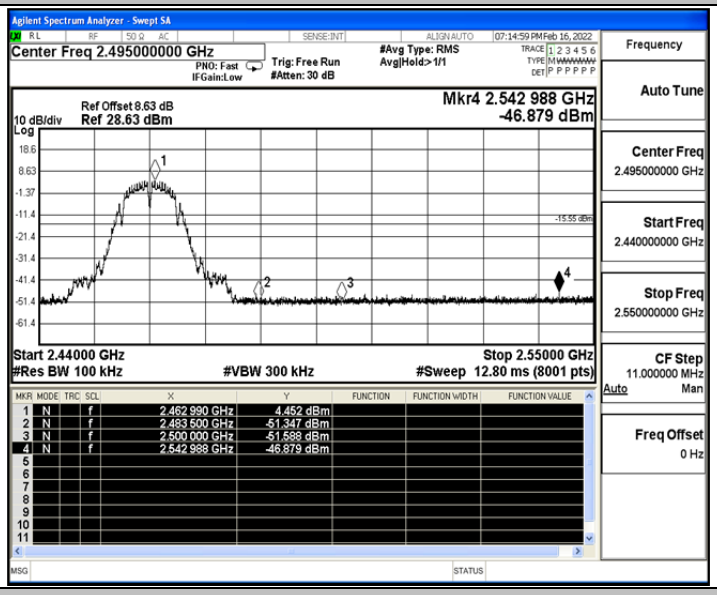
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.90	-38.6	≤-15.1	PASS
		High	2462	4.45	-46.88	≤-15.55	PASS
11G	Ant1	Low	2412	-3.40	-44.5	≤-23.4	PASS
		High	2462	-3.66	-47.52	≤-23.66	PASS
11N20SISO	Ant1	Low	2412	-3.74	-42.23	≤-23.74	PASS
		High	2462	-3.87	-47.81	≤-23.87	PASS
11N40SISO	Ant1	Low	2422	-7.76	-45.45	≤-27.76	PASS
		High	2452	-7.76	-45.97	≤-27.76	PASS

Test Graphs

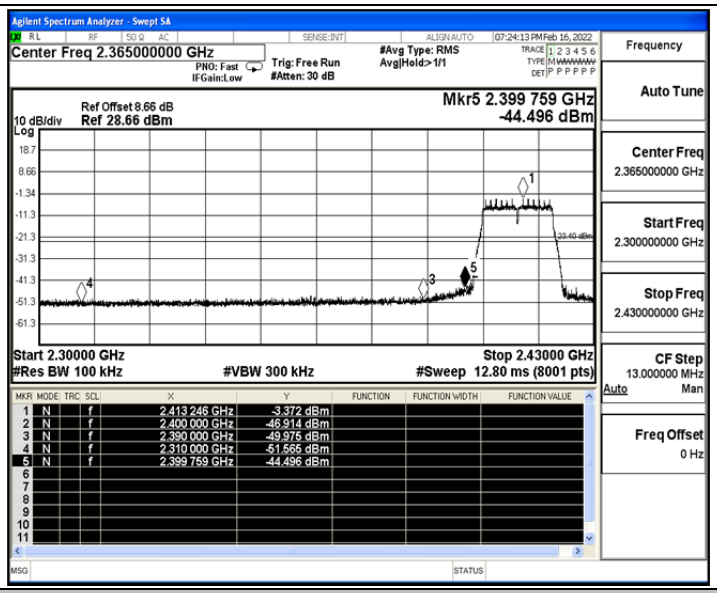
11B_Ant1_Low_2412



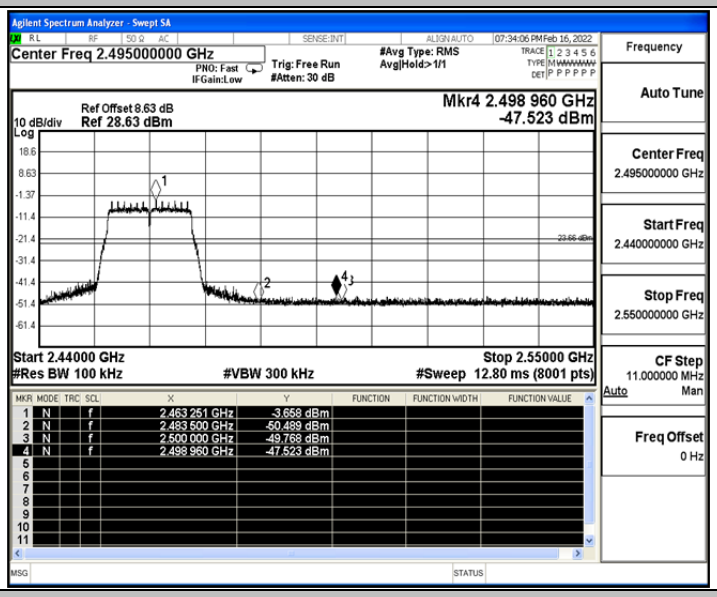
11B_Ant1_High_2462



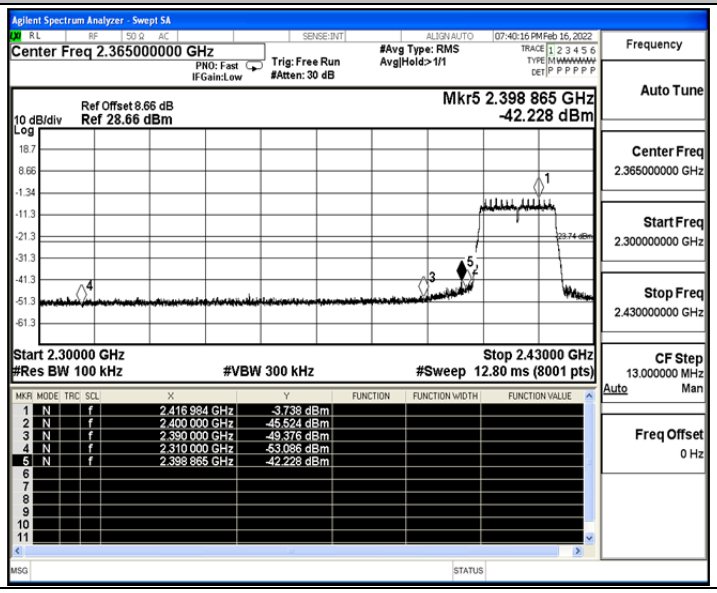
11G_Ant1_Low_2412



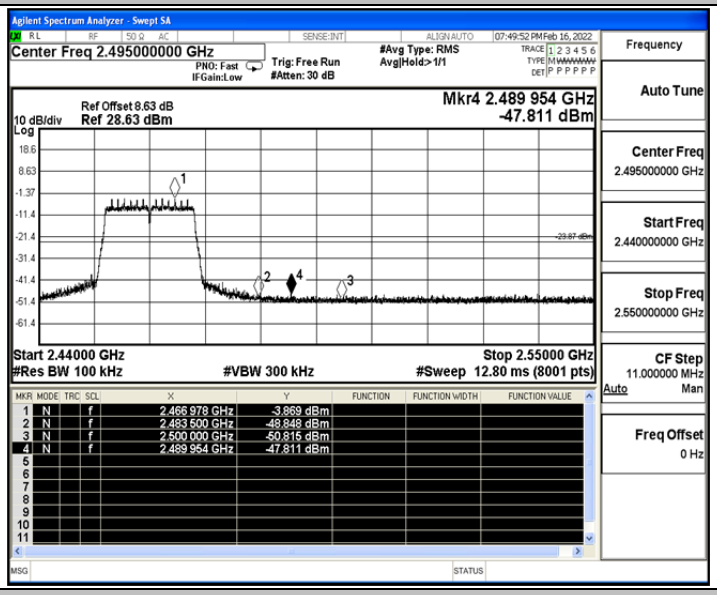
11G_Ant1_High_2462



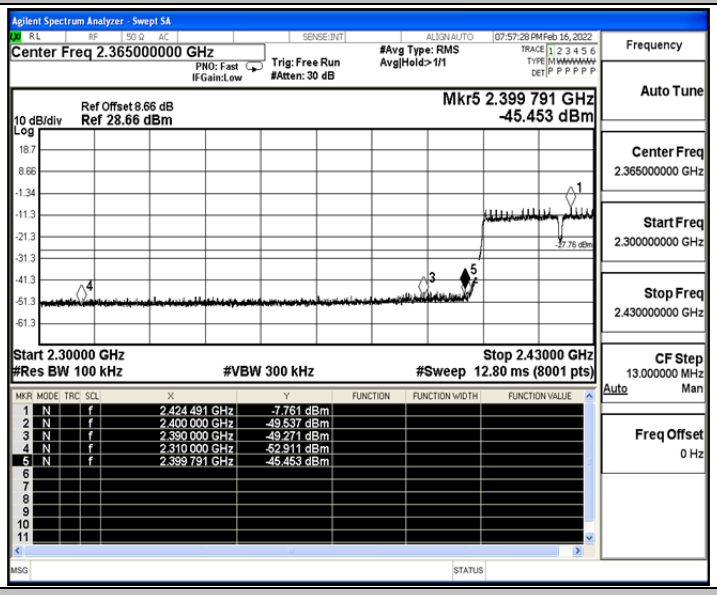
11N20SISO_Ant1_Low_2412



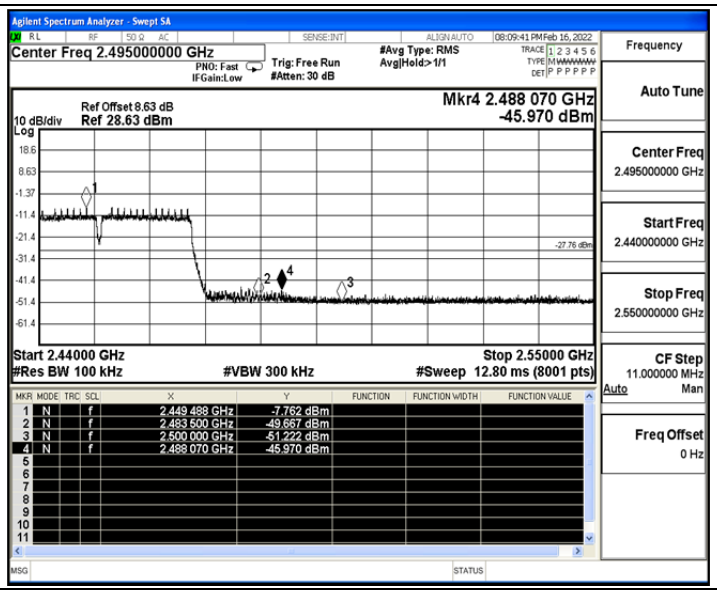
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold:>1/1
08:09:41 PM Feb 16, 2022
Ref Offset 8.63 dB
10 dB/div
Ref 28.63 dB
Log
Mkr4 2.488 070 GHz
-45.970 dBm
-27.76 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
#Sweep 12.80 ms (8001 pts)
1 N f 2.449 488 GHz -7.762 dBm
2 N f 2.483 500 GHz -49.667 dBm
3 N f 2.500 000 GHz -51.222 dBm
4 N f 2.488 070 GHz -45.970 dBm
Frequency
Auto Tune
Center Freq
2.495000000 GHz
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz

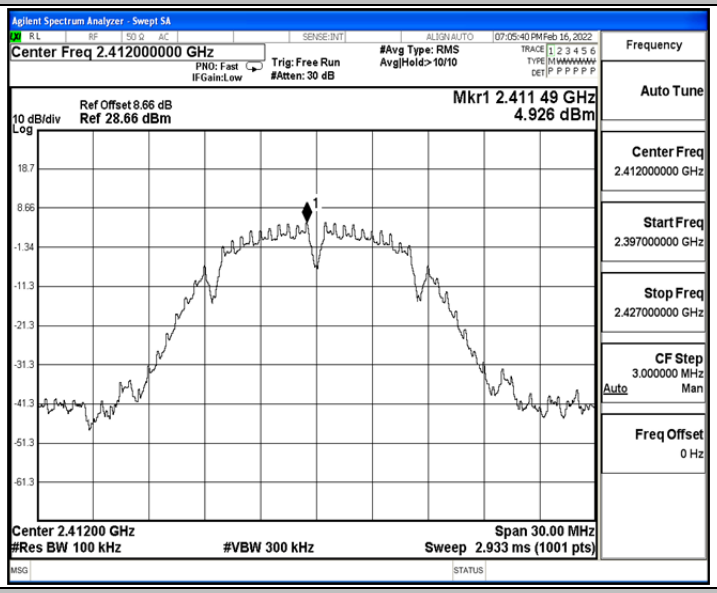
C.5 Conducted Spurious Emission

Test Result

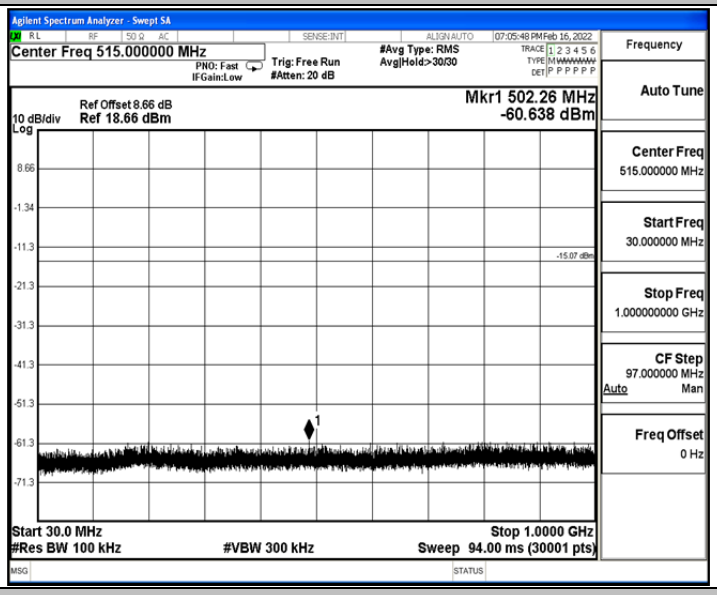
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-60.64	≤-15.07	PASS
			1000~26500	4.93	-45.63	≤-15.07	PASS
		2437	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-60.92	≤-15.35	PASS
			1000~26500	4.65	-45.98	≤-15.35	PASS
		2462	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-59.88	≤-15.71	PASS
			1000~26500	4.29	-45.69	≤-15.71	PASS
11G	Ant1	2412	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-60.54	≤-23.39	PASS
			1000~26500	-3.39	-46.86	≤-23.39	PASS
		2437	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-60.78	≤-23.53	PASS
			1000~26500	-3.53	-46.13	≤-23.53	PASS
		2462	Reference	-3.89	-3.89	---	PASS
			30~1000	-3.89	-59.85	≤-23.89	PASS
			1000~26500	-3.89	-45.99	≤-23.89	PASS
11N20SISO	Ant1	2412	Reference	-3.42	-3.42	---	PASS
			30~1000	-3.42	-60.12	≤-23.42	PASS
			1000~26500	-3.42	-45.97	≤-23.42	PASS
		2437	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-60.38	≤-23.58	PASS
			1000~26500	-3.58	-45.87	≤-23.58	PASS
		2462	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-61.01	≤-23.94	PASS
			1000~26500	-3.94	-46.46	≤-23.94	PASS
11N40SISO	Ant1	2422	Reference	-7.99	-7.99	---	PASS
			30~1000	-7.99	-60.59	≤-27.99	PASS
			1000~26500	-7.99	-46.14	≤-27.99	PASS
		2437	Reference	-7.96	-7.96	---	PASS
			30~1000	-7.96	-60.4	≤-27.96	PASS
			1000~26500	-7.96	-46.09	≤-27.96	PASS
		2452	Reference	-7.64	-7.64	---	PASS
			30~1000	-7.64	-60.18	≤-27.64	PASS
			1000~26500	-7.64	-46.02	≤-27.64	PASS

Test Graphs

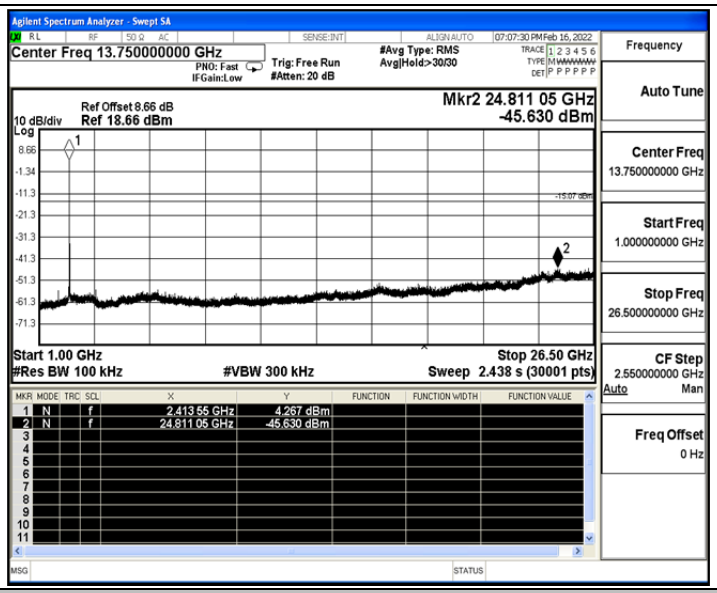
11B_Ant1_2412_0~Reference



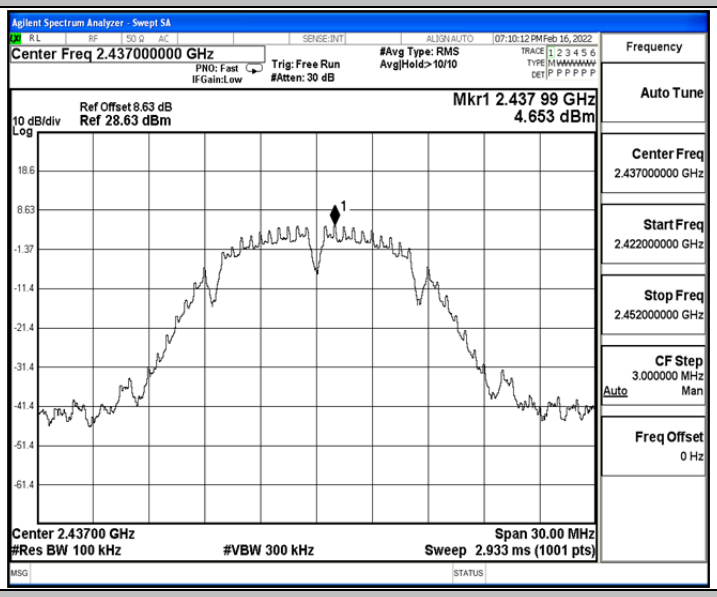
11B_Ant1_2412_30~1000



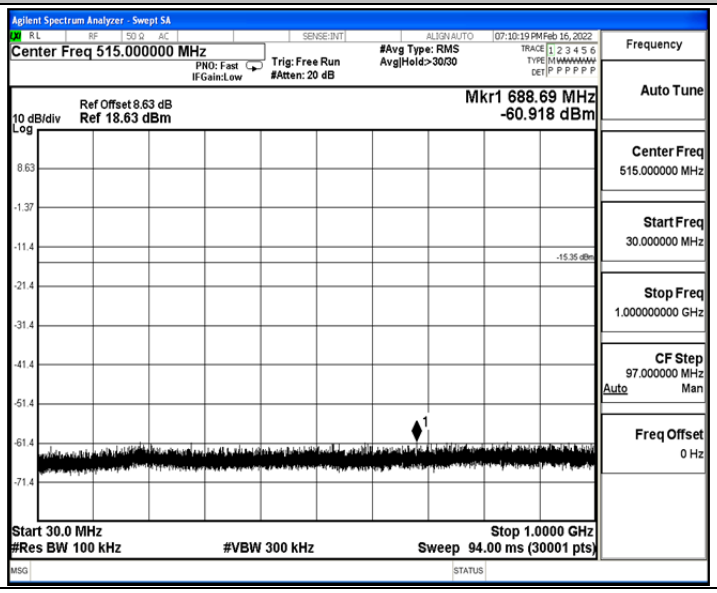
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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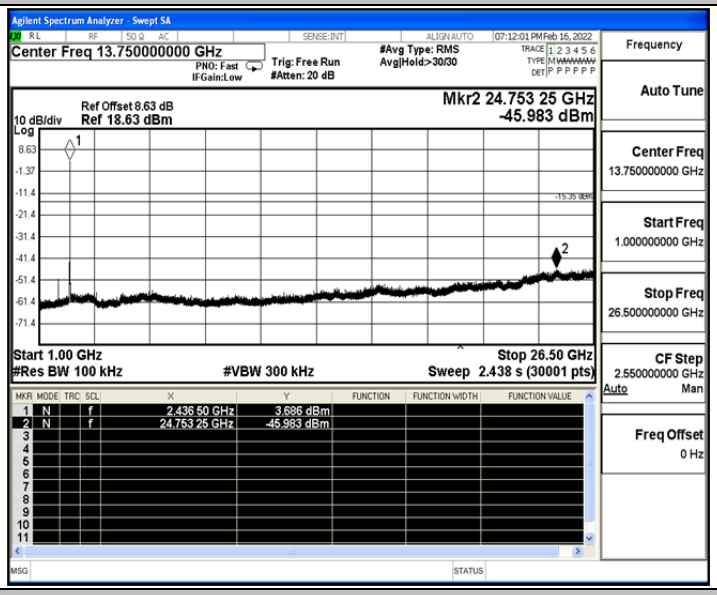

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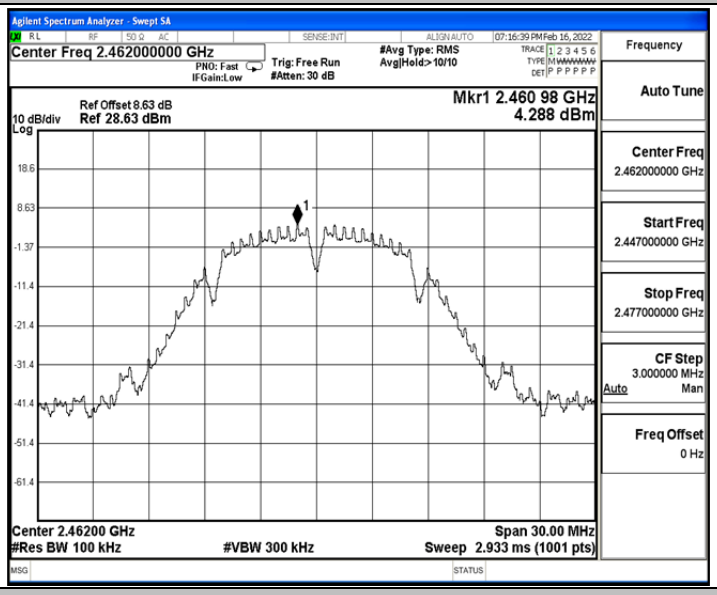

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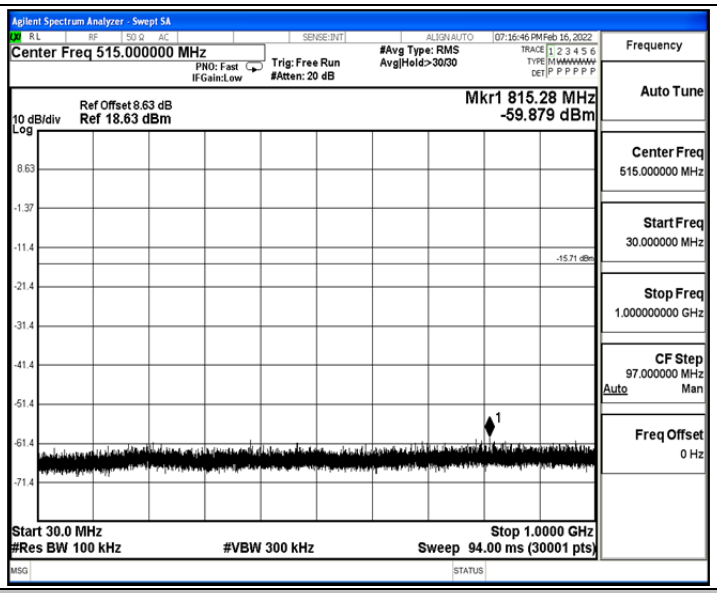

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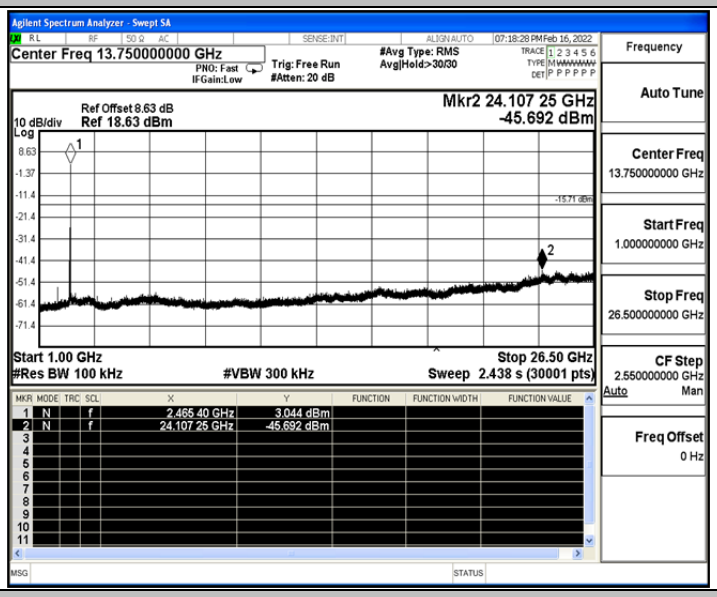

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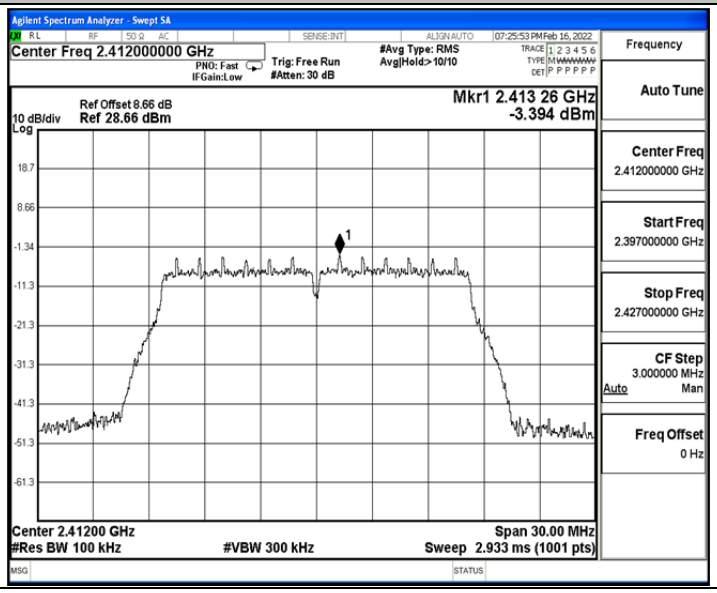

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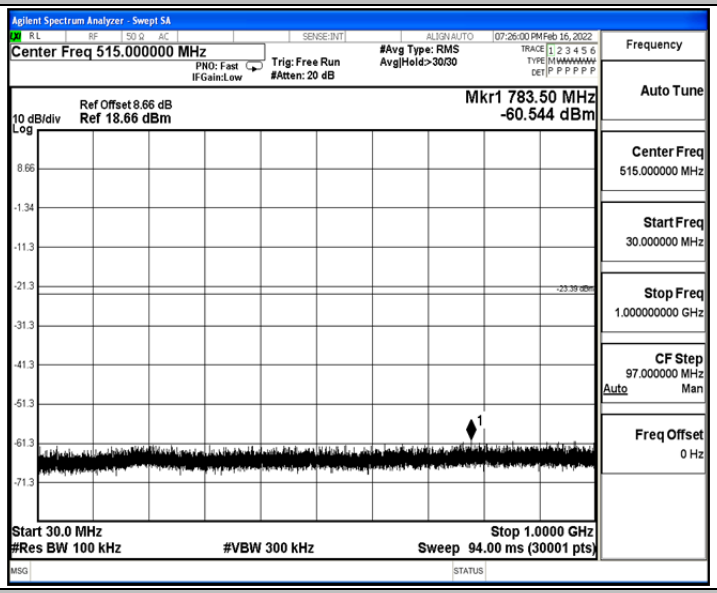

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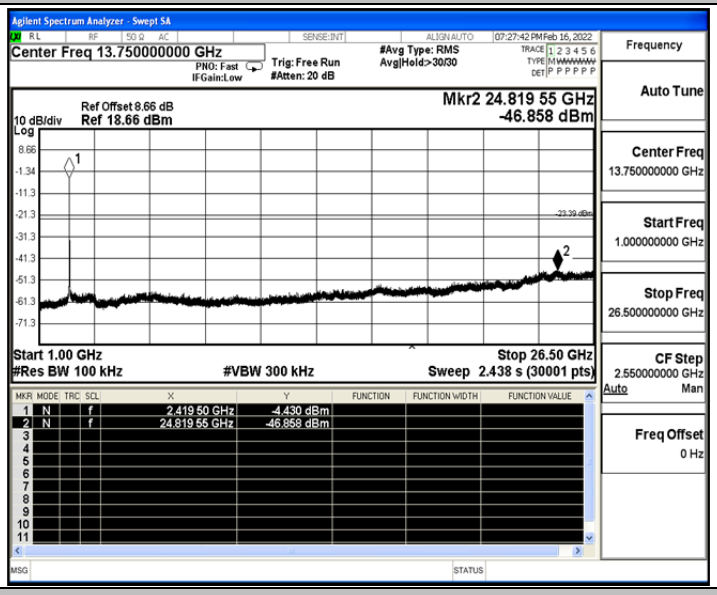

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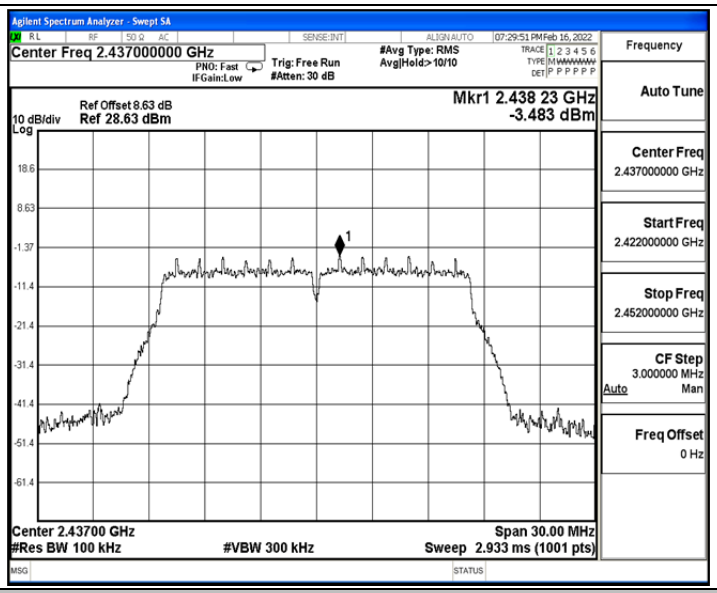

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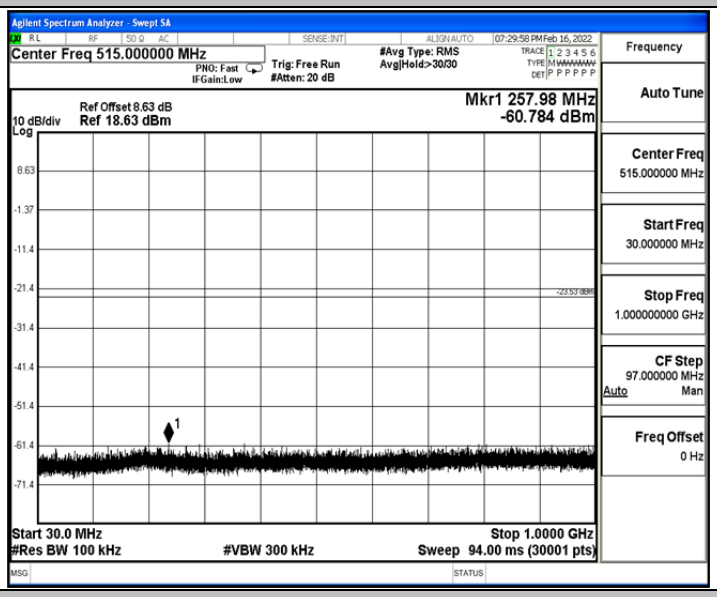

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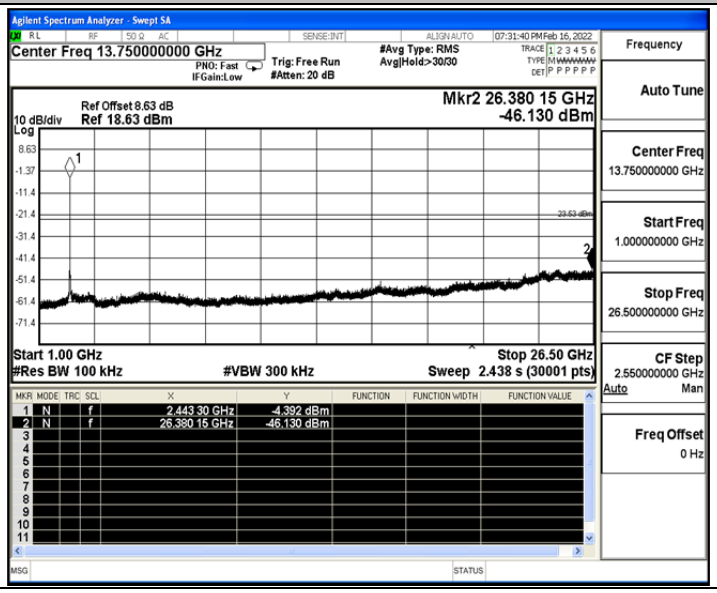

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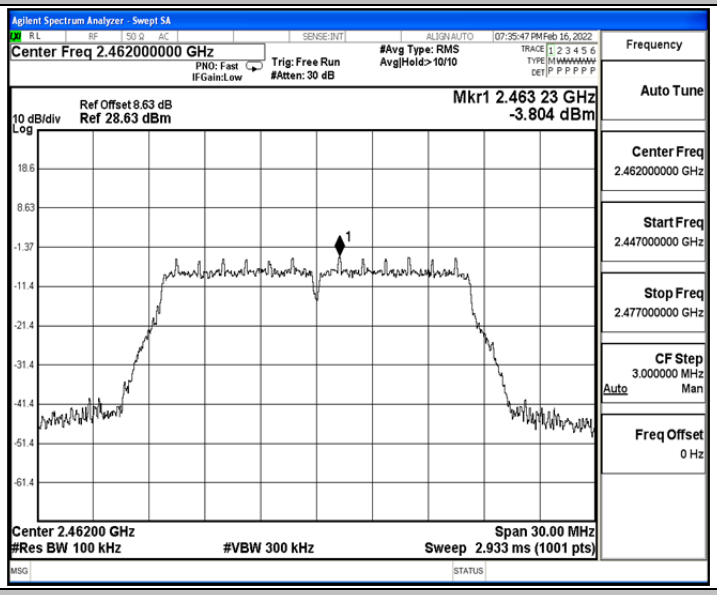

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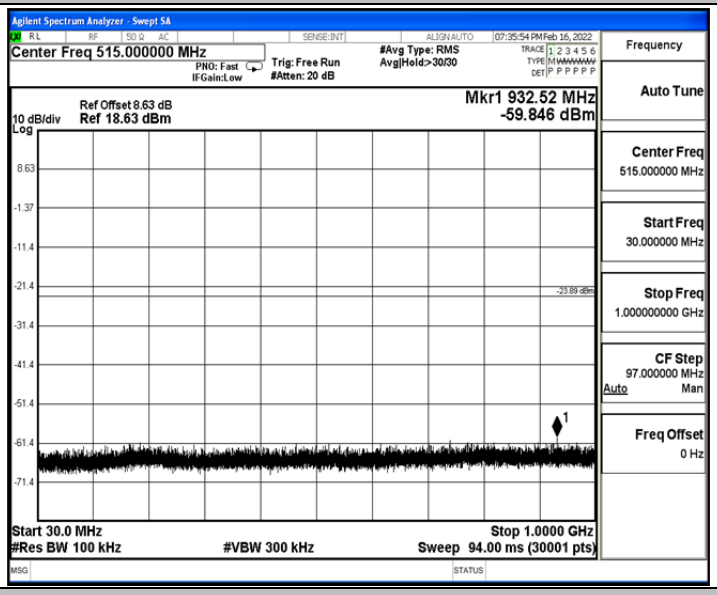

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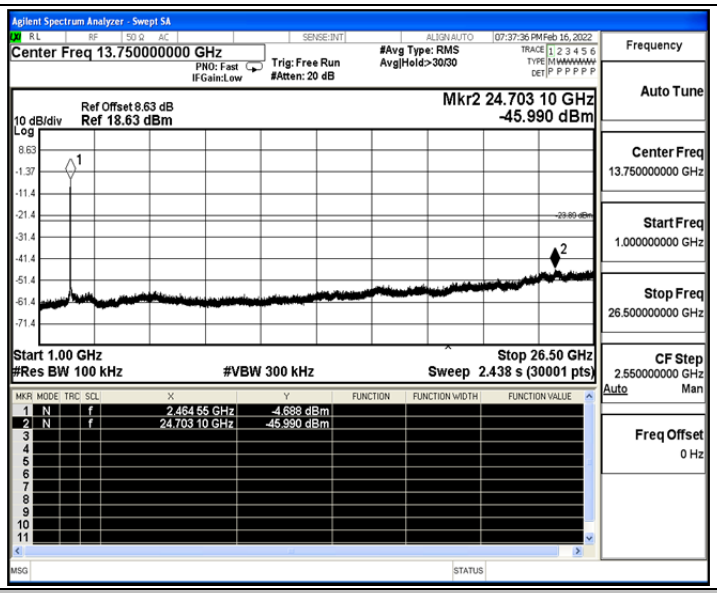

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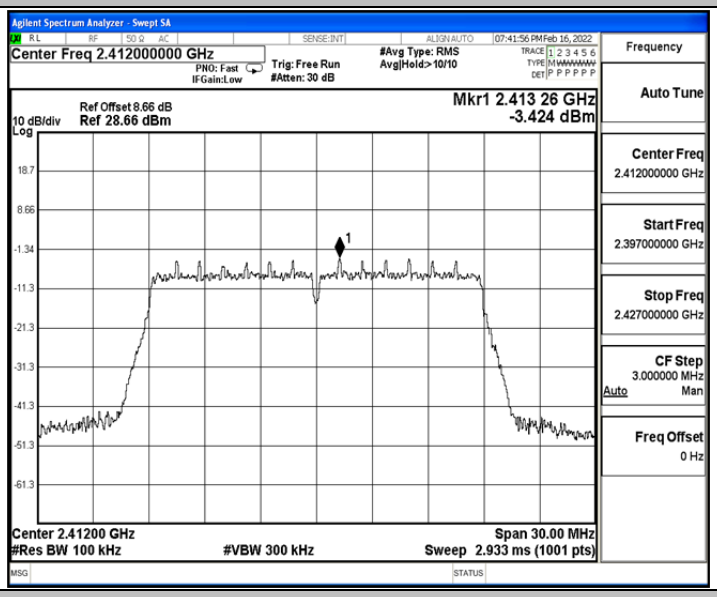

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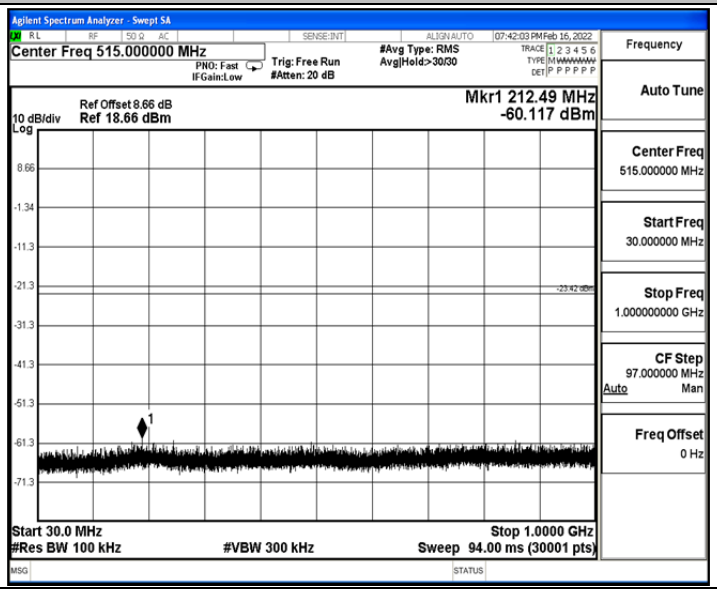

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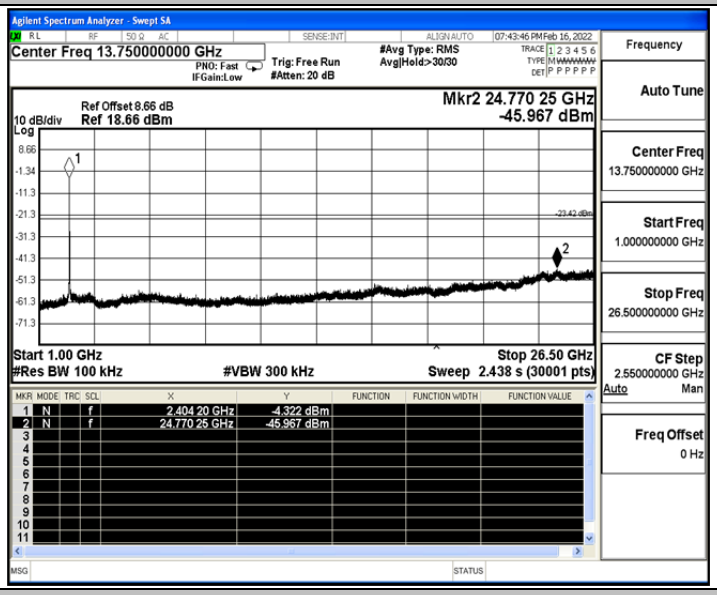

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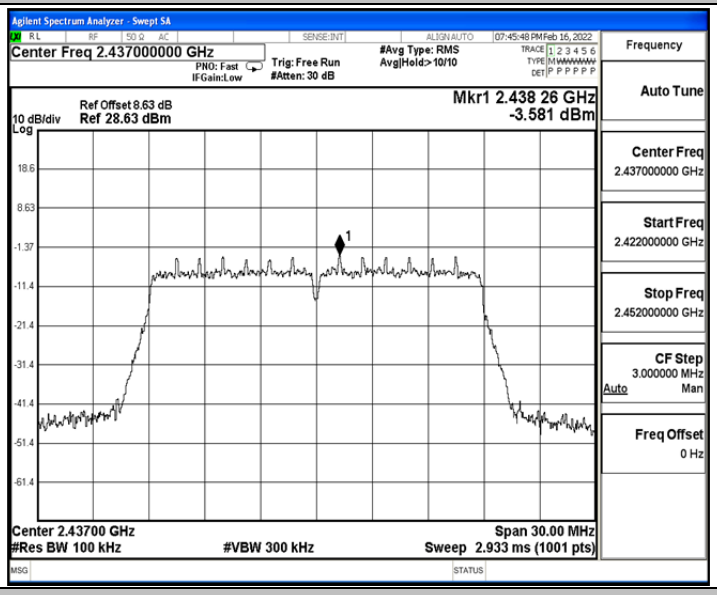

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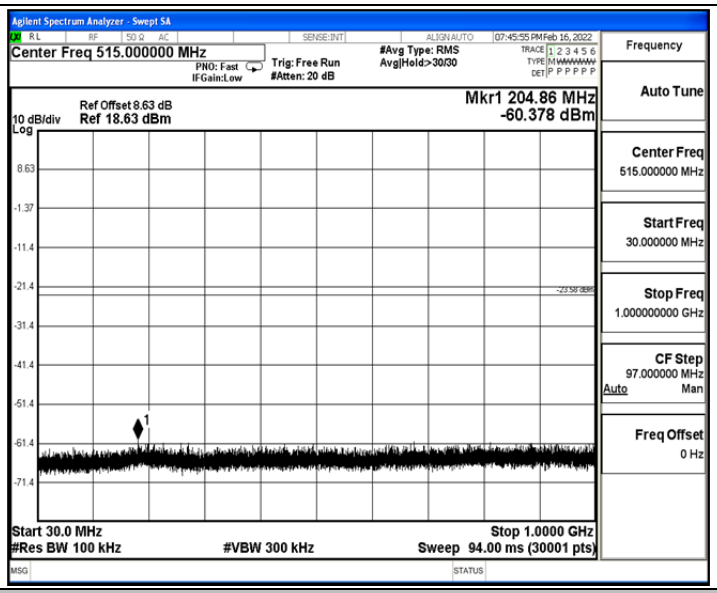

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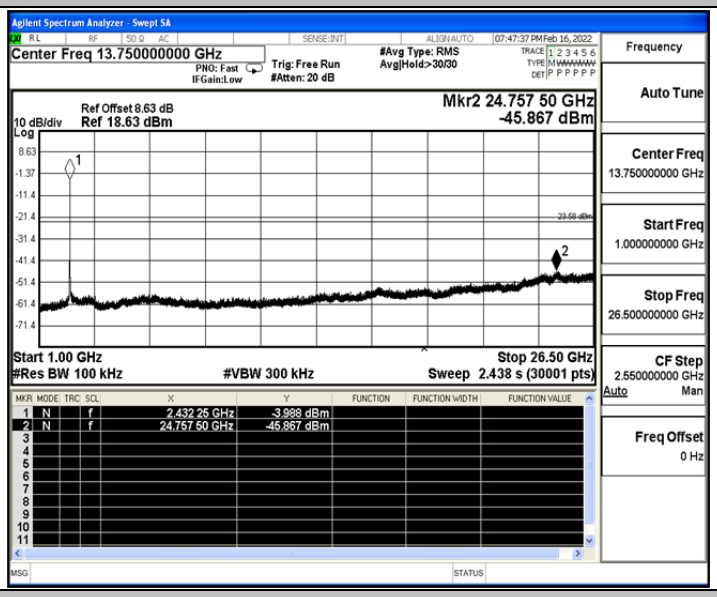

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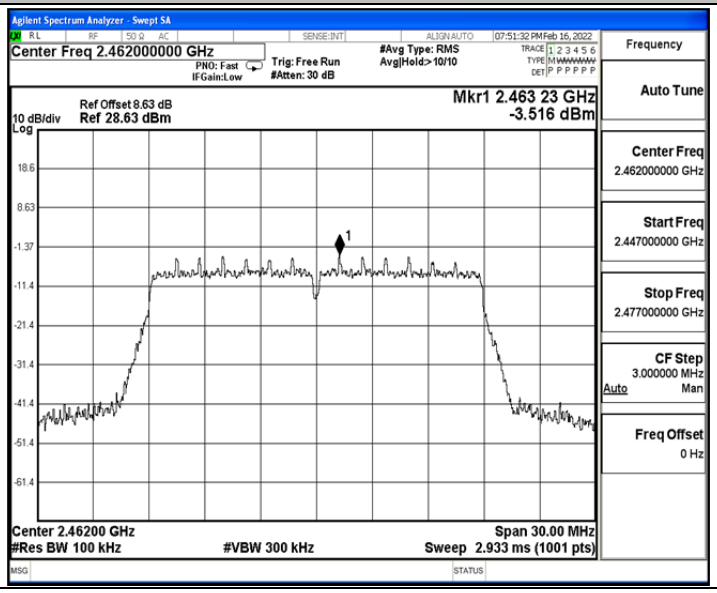

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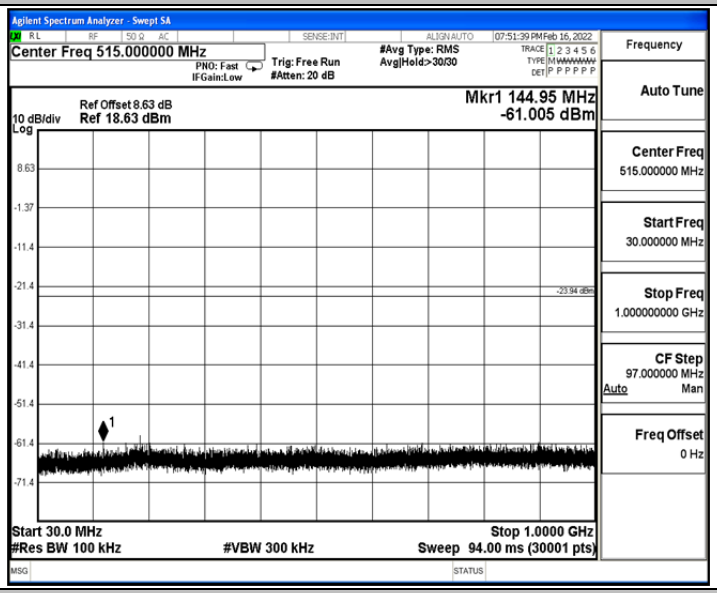

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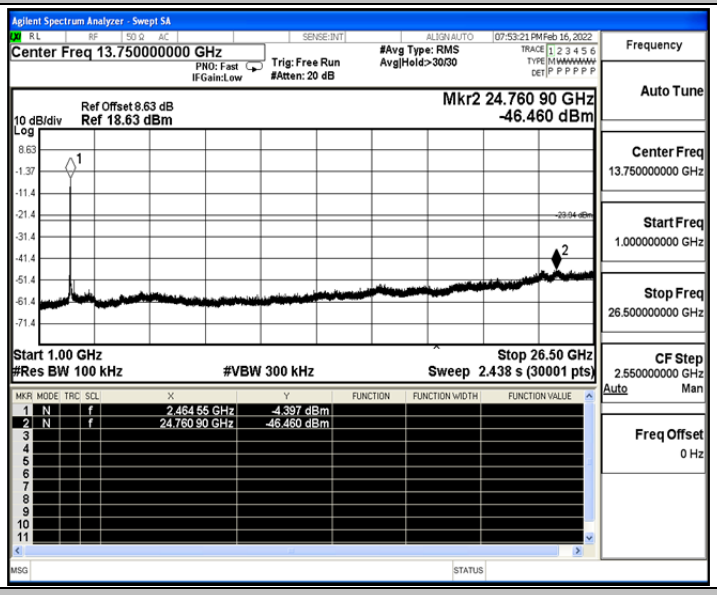

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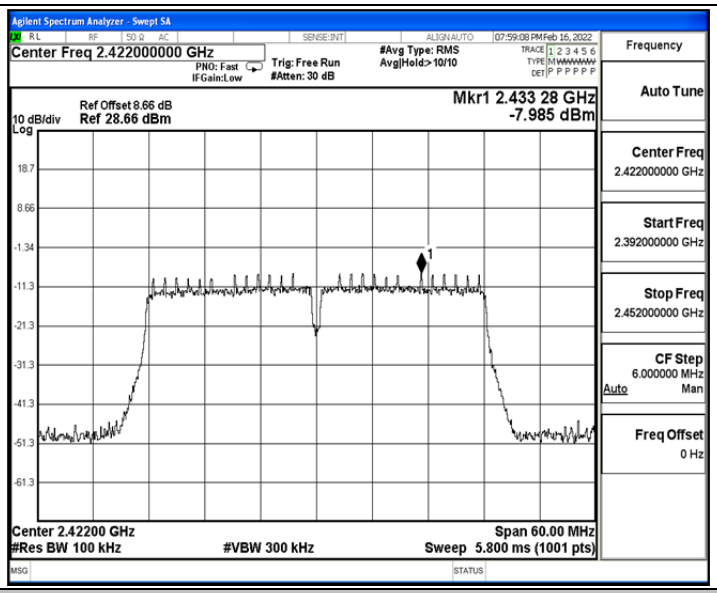

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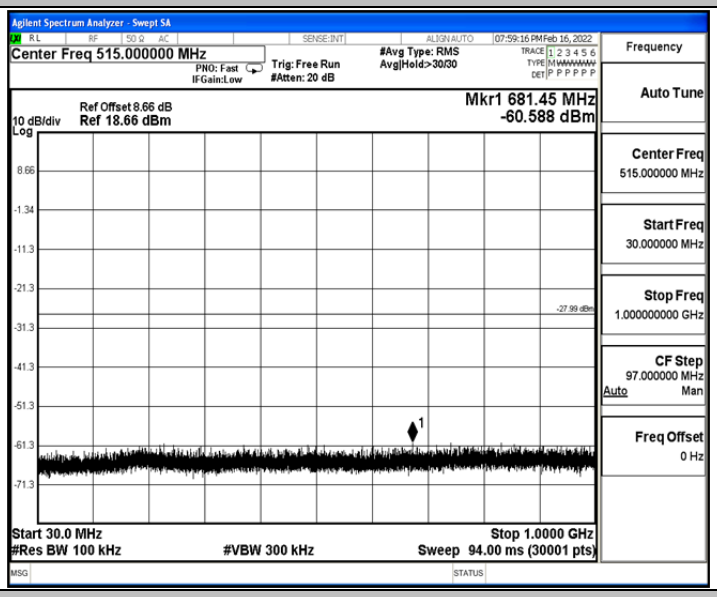

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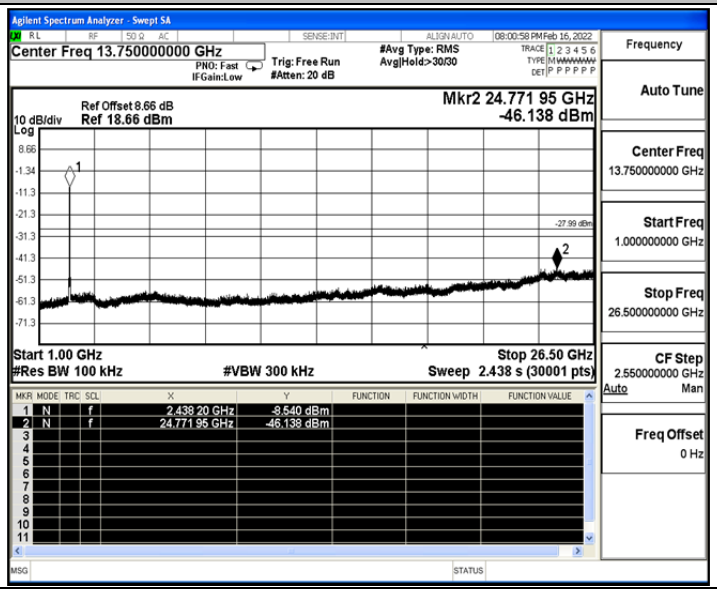

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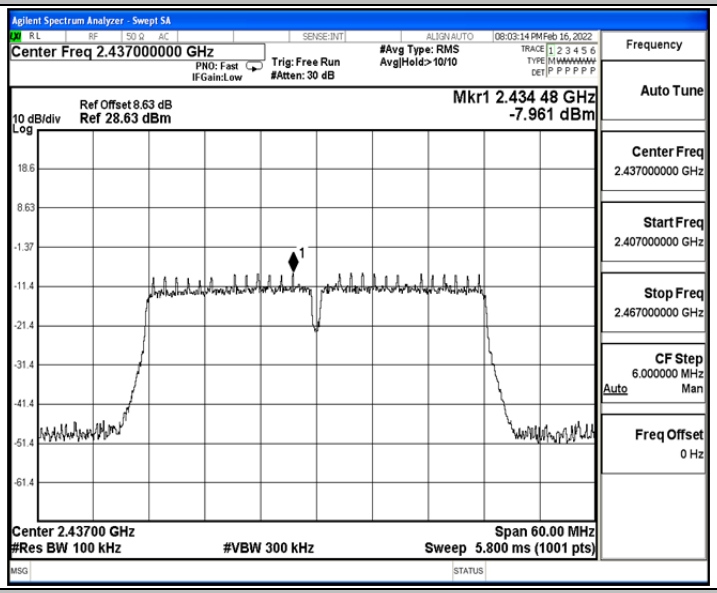

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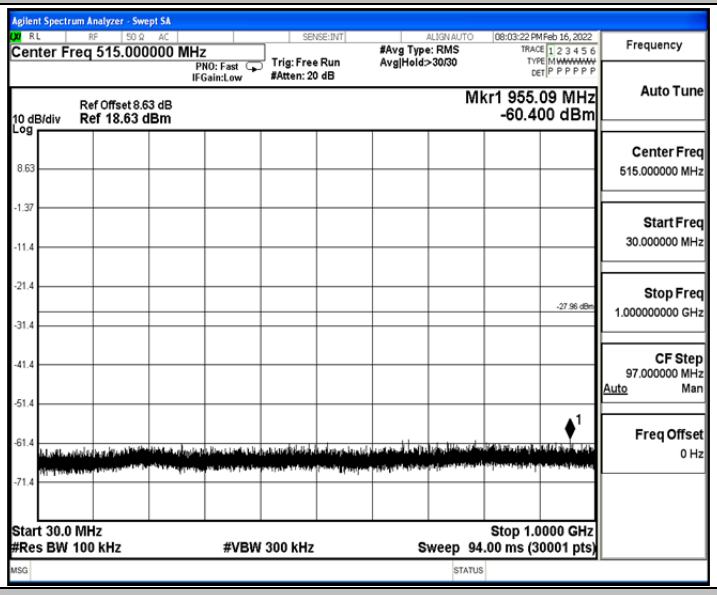

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