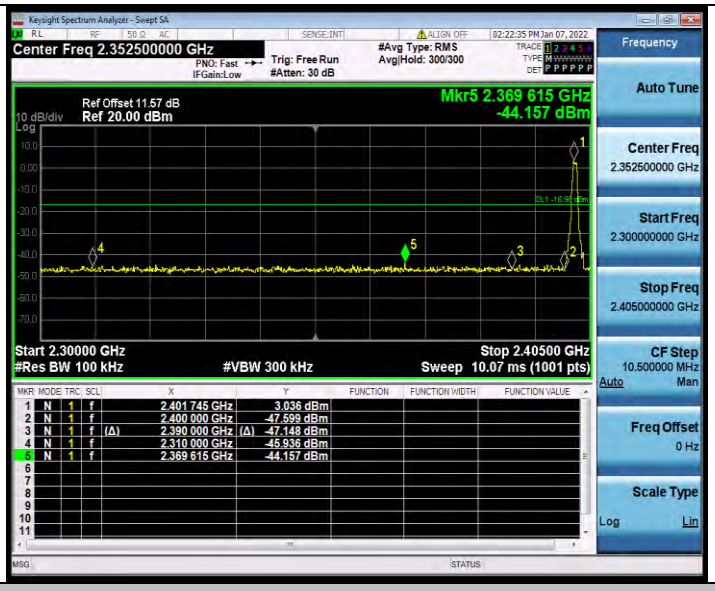
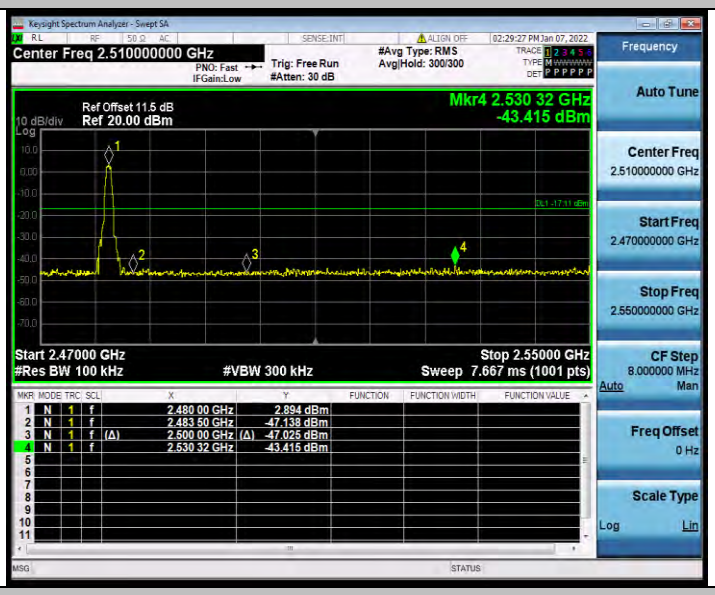
TEST GRAPHS



BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

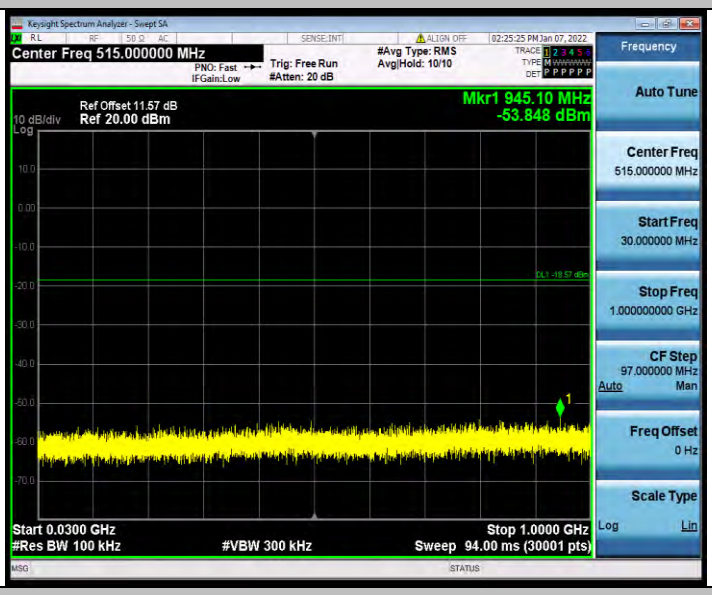
CONDUCTED SPURIOUS EMISSION

TEST RESULT

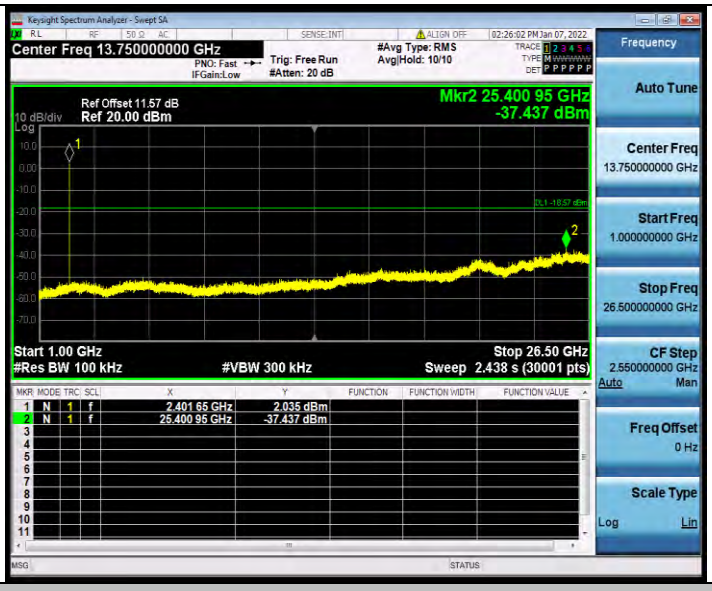
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-53.85	≤-18.57	PASS
			1000~26500	1.43	-37.44	≤-18.57	PASS
		2440	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-54.41	≤-18.81	PASS
			1000~26500	1.19	-38.12	≤-18.81	PASS
		2480	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-53.43	≤-18.3	PASS
			1000~26500	1.70	-38.02	≤-18.3	PASS

TEST GRAPHS

BLE_1M_Ant1_2402_0~Reference

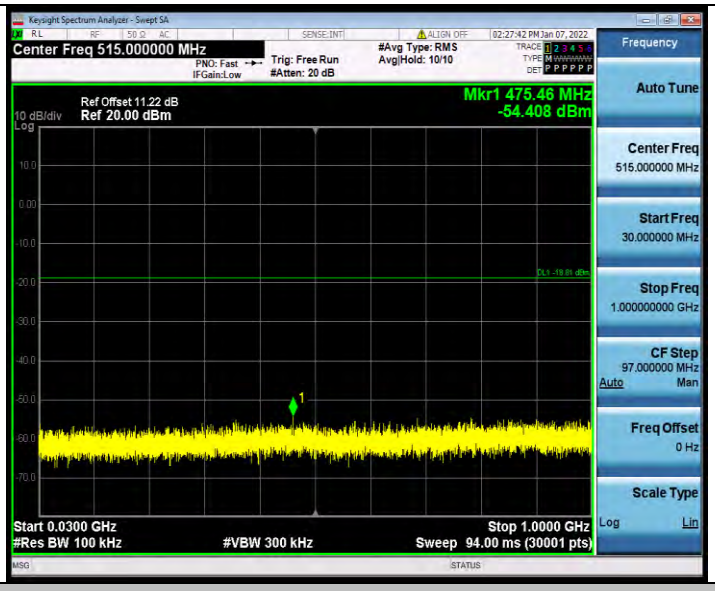


BLE_1M_Ant1_2402_30~1000

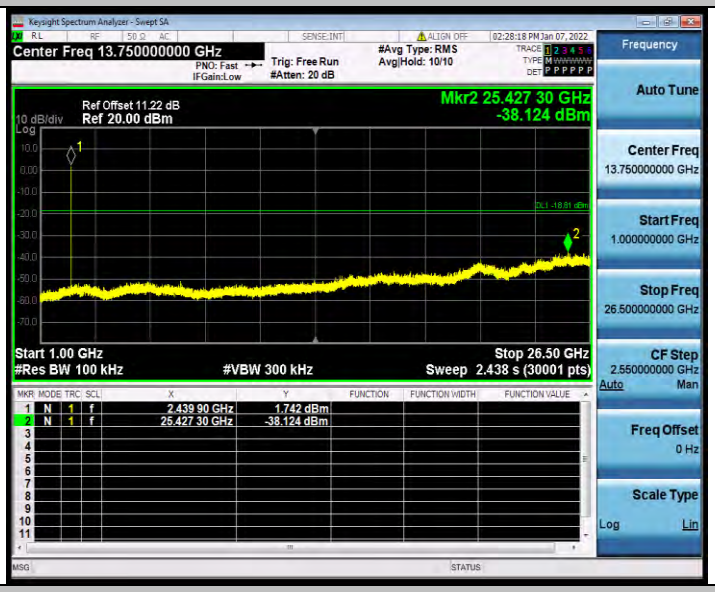


BLE_1M_Ant1_2402_1000~26500

BLE_1M_Ant1_2440_0~Reference

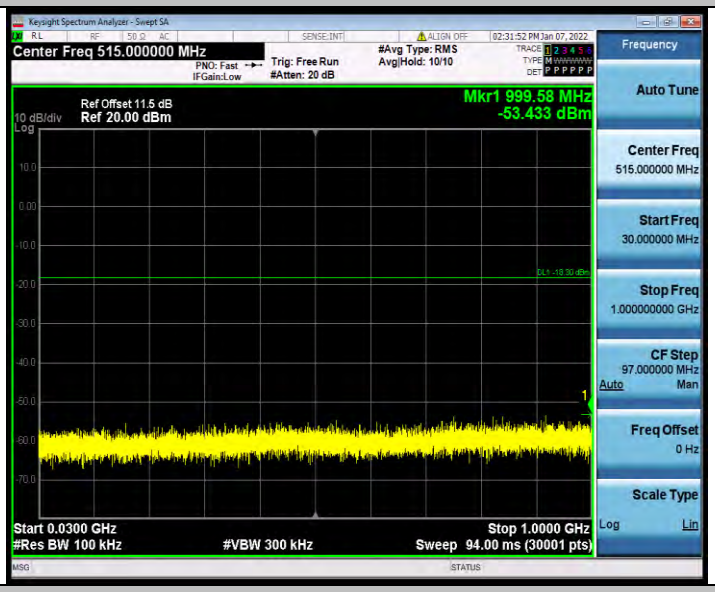


BLE_1M_Ant1_2440_30~1000

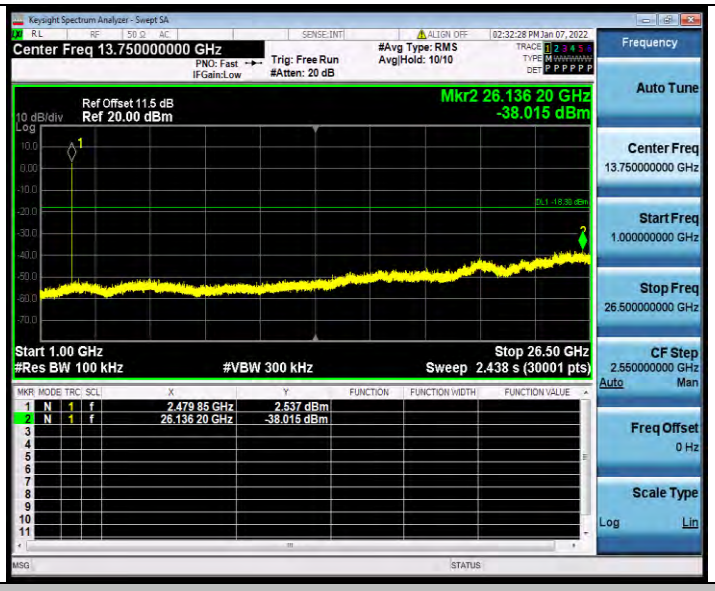


BLE_1M_Ant1_2440_1000~26500

BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



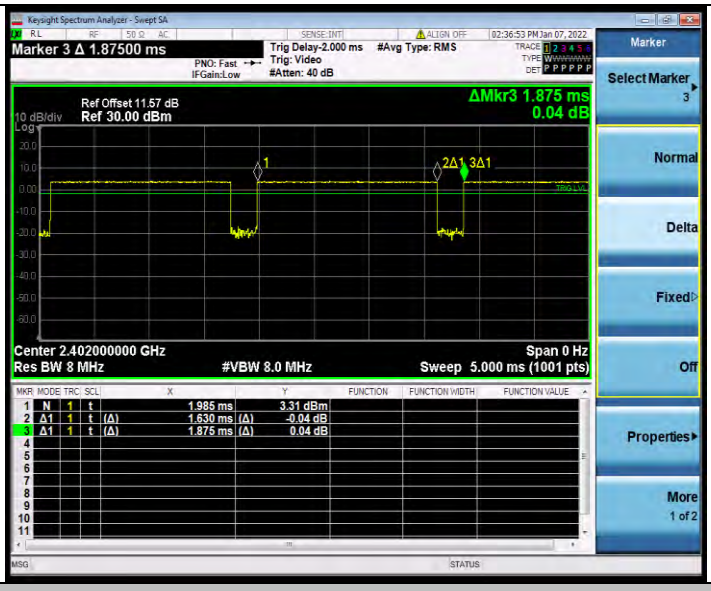
BLE_1M_Ant1_2480_1000~26500

DUTY CYCLE

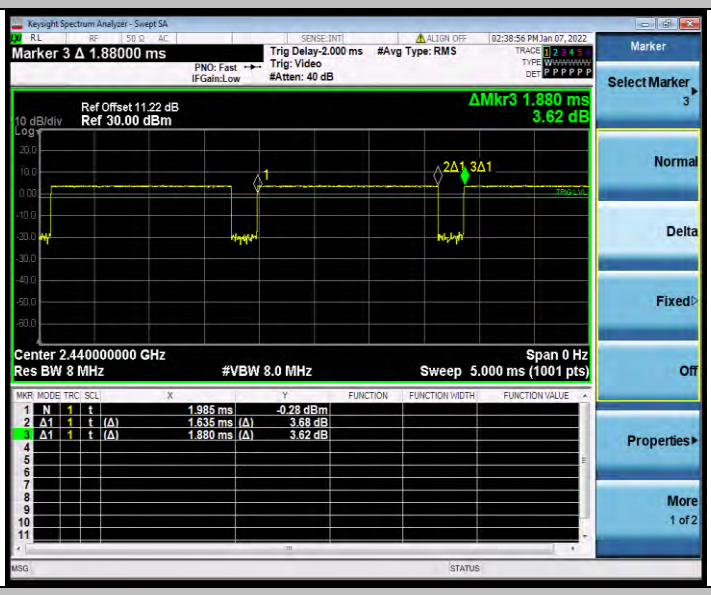
TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.63	1.875	0.8693	86.93	0.61	---	PASS
		2440	1.635	1.88	0.8696	86.96	0.61	---	PASS
		2480	1.625	1.875	0.8666	86.66	0.62	---	PASS

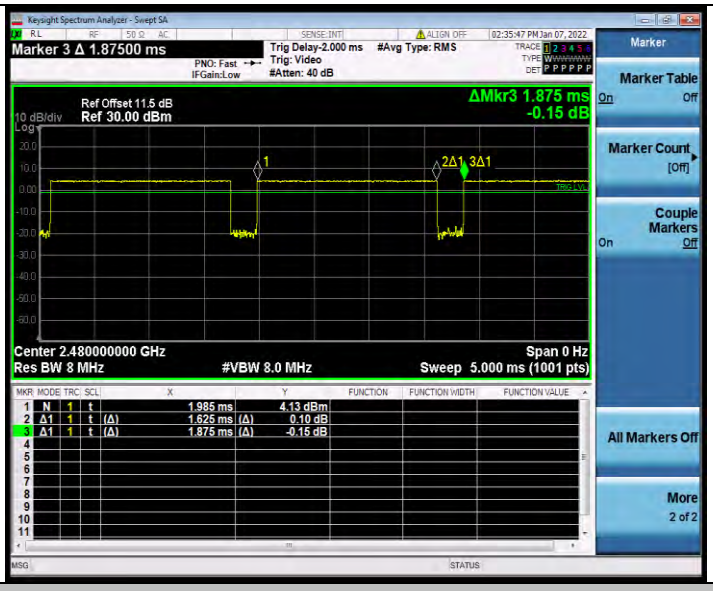
TEST GRAPHS



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

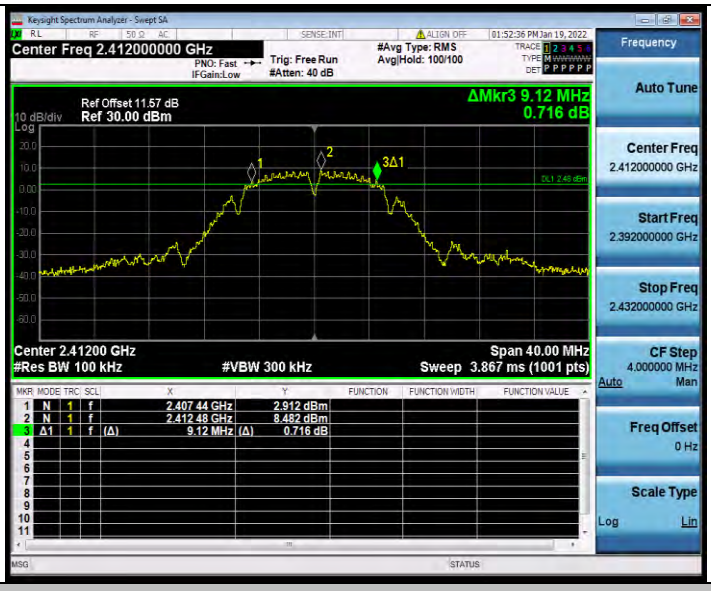
7 Appendix 2 WLAN 2.4G

DTS BANDWIDTH

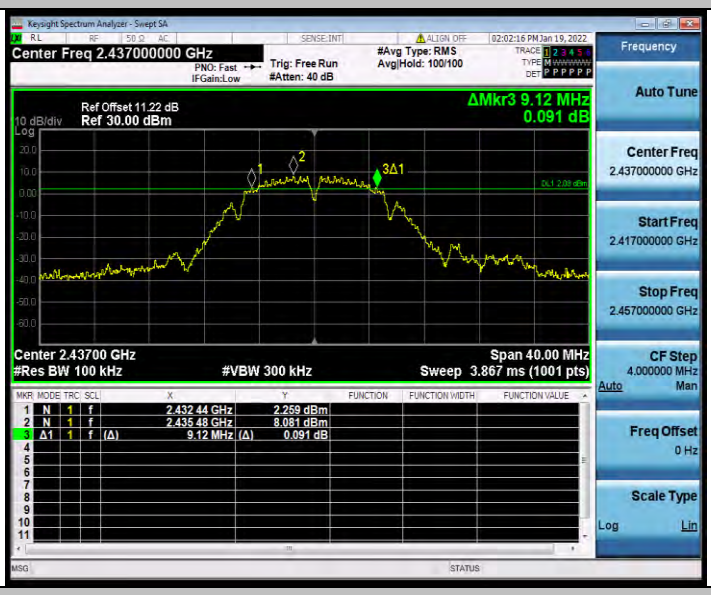
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	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	17.320	2453.480	2470.800	0.5	PASS

TEST GRAPHS

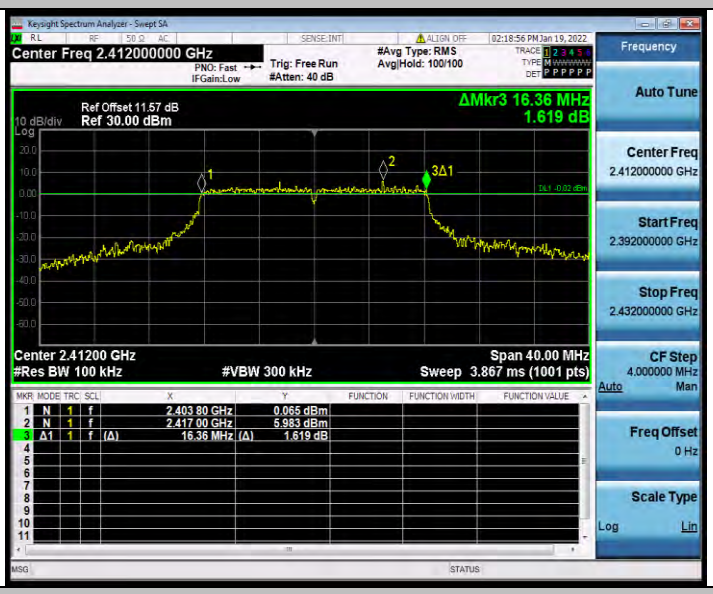


11B_Ant1_2412

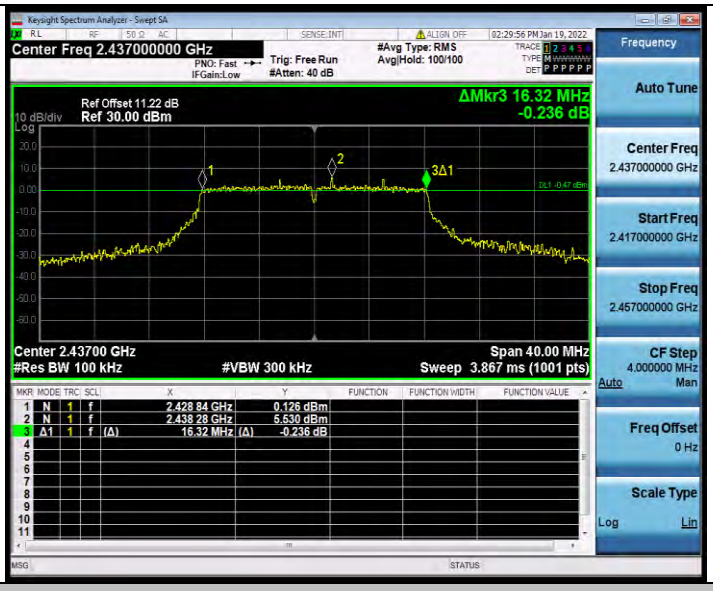


11B_Ant1_2437

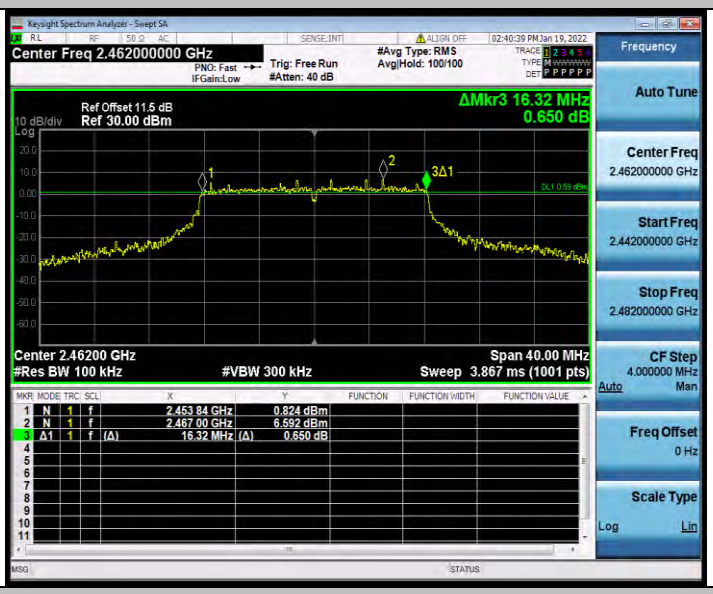
11B_Ant1_2462



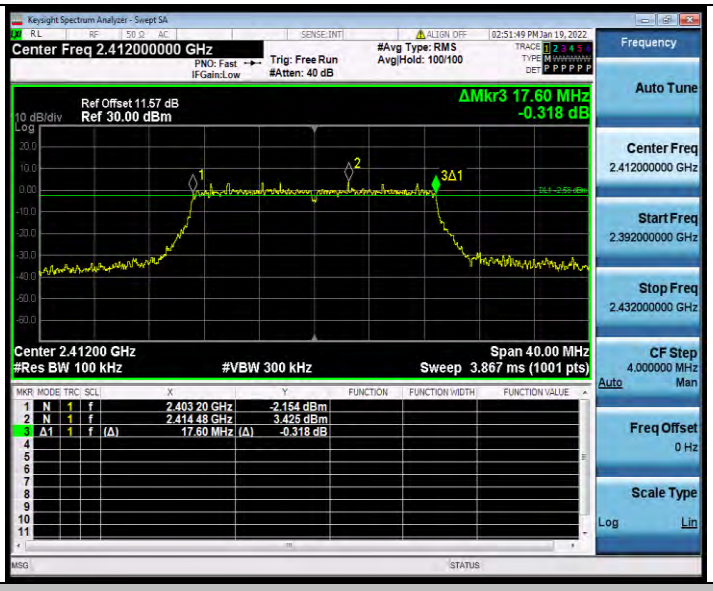
11G_Ant1_2412



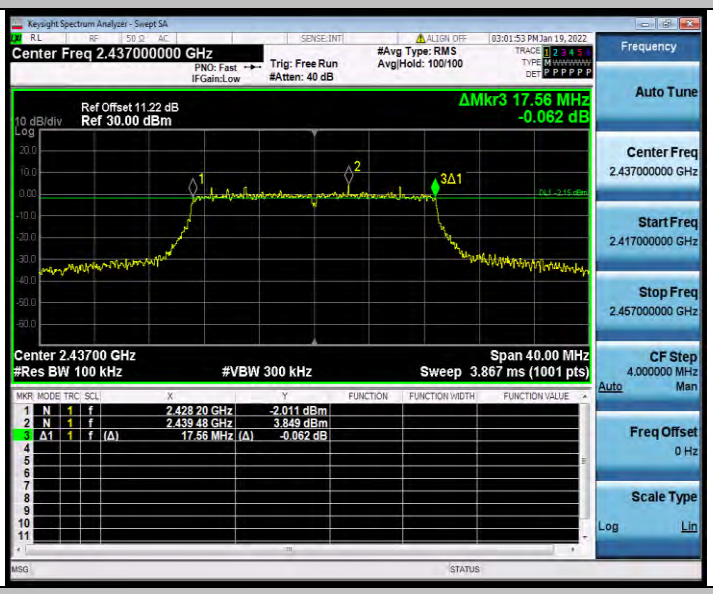
11G_Ant1_2437



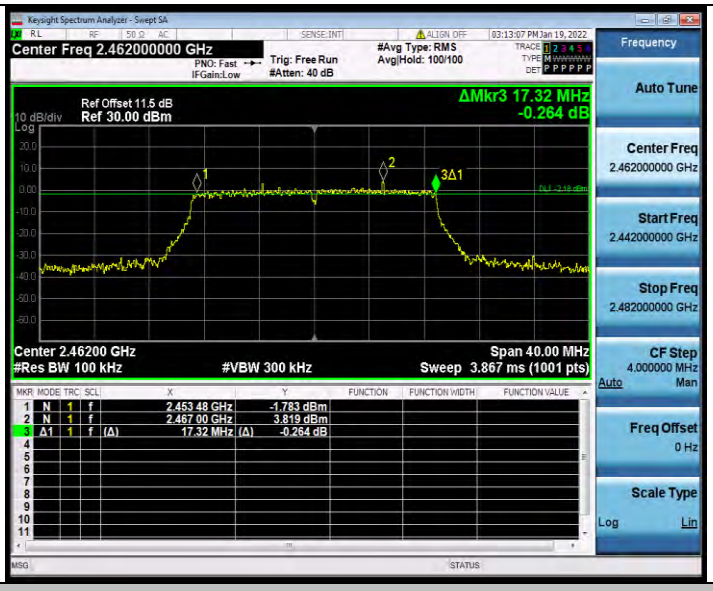
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

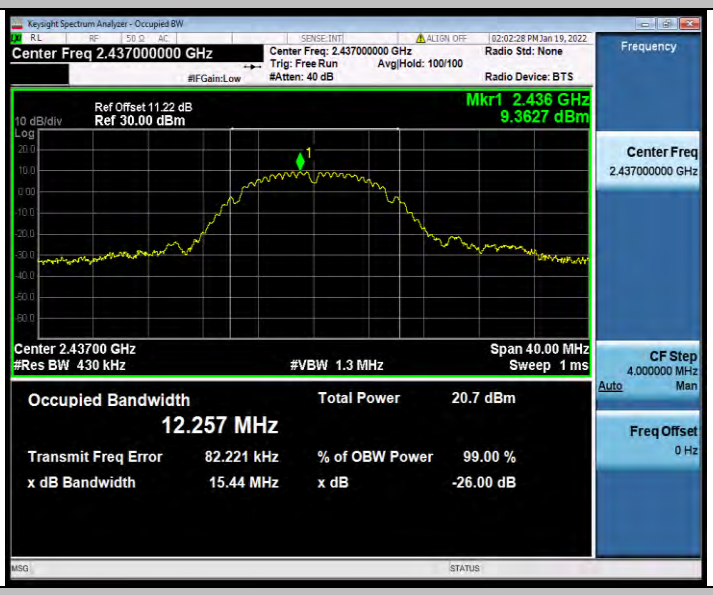
OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.268	2405.873	2418.141	---	PASS
		2437	12.257	2430.954	2443.211	---	PASS
		2462	12.190	2455.968	2468.158	---	PASS
11G	Ant1	2412	17.529	2403.308	2420.837	---	PASS
		2437	17.505	2428.242	2445.747	---	PASS
		2462	17.520	2453.328	2470.848	---	PASS
11N20SISO	Ant1	2412	18.048	2403.035	2421.083	---	PASS
		2437	18.048	2428.043	2446.091	---	PASS
		2462	18.035	2453.031	2471.066	---	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

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMode	Antenna	Channel	Peak Powert[dBm]	Peak Powert[mw]	Conducted Limit[dBm]	Verdict	Power setting
11B	Ant1	2412	20.43	110.41	≤30	PASS	17
		2437	20.18	104.23	≤30	PASS	16
		2462	20.51	112.46	≤30	PASS	17
11G	Ant1	2412	22.94	196.79	≤30	PASS	15
		2437	22.82	191.43	≤30	PASS	14
		2462	22.78	189.67	≤30	PASS	15
11N20SISO	Ant1	2412	22.71	186.64	≤30	PASS	15
		2437	23.24	210.86	≤30	PASS	15
		2462	23.05	201.84	≤30	PASS	15

TEST RESULT AVERAGE

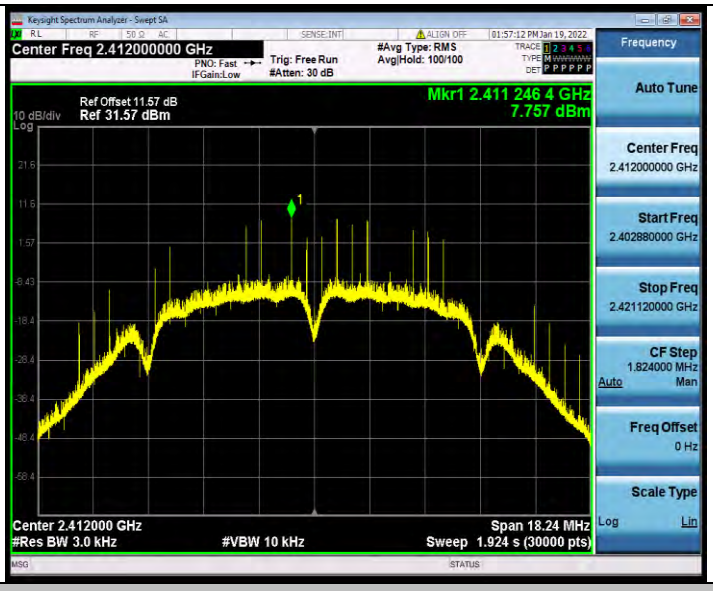
TestMode	Antenna	Channel	Average Power	Conducted Limit[dBm]	Verdict	Power setting
11B	Ant1	2412	17.48	/	PASS	17
		2437	17.25	/	PASS	16
		2462	17.53	/	PASS	17
11G	Ant1	2412	16.37	/	PASS	15
		2437	15.98	/	PASS	14
		2462	16.26	/	PASS	15
11N20SISO	Ant1	2412	13.52	/	PASS	15
		2437	14.46	/	PASS	15
		2462	13.80	/	PASS	15

MAXIMUM POWER SPECTRAL DENSITY

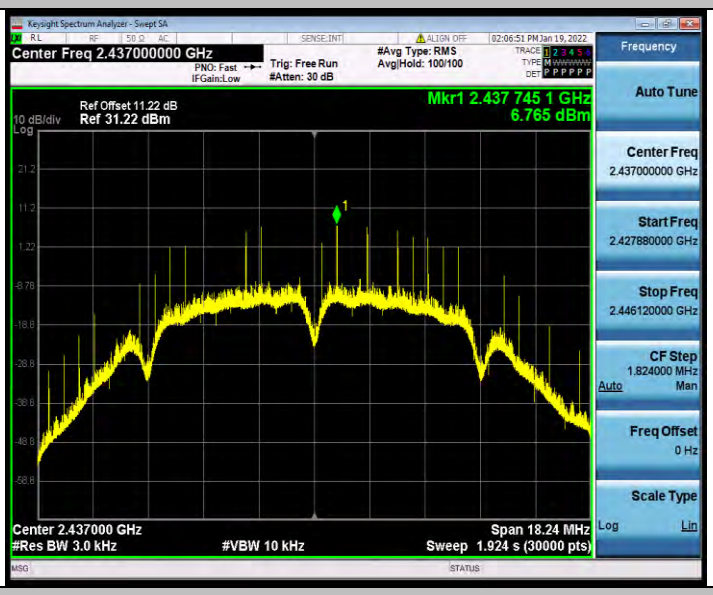
TEST RESULT

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	7.76	≤8	PASS
		2437	6.77	≤8	PASS
		2462	7.87	≤8	PASS
11G	Ant1	2412	-8.88	≤8	PASS
		2437	-9.8	≤8	PASS
		2462	-8.27	≤8	PASS
11N20SISO	Ant1	2412	-8.15	≤8	PASS
		2437	-10.45	≤8	PASS
		2462	-10.65	≤8	PASS

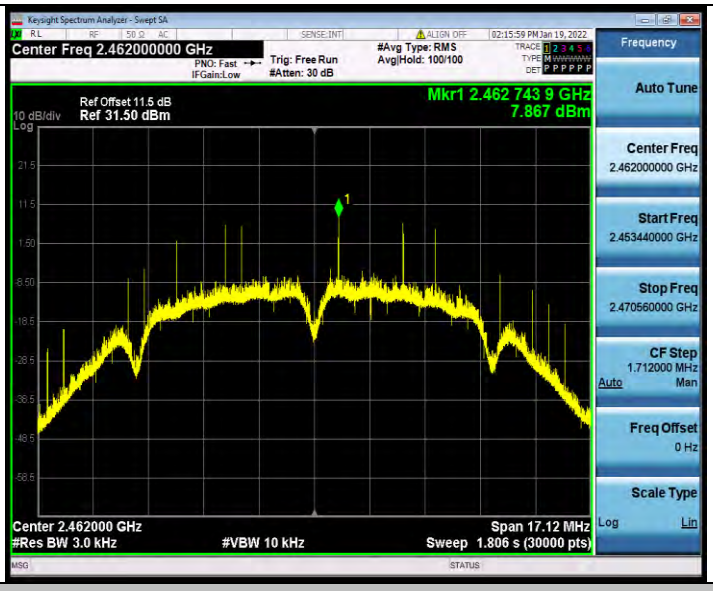
TEST GRAPHS



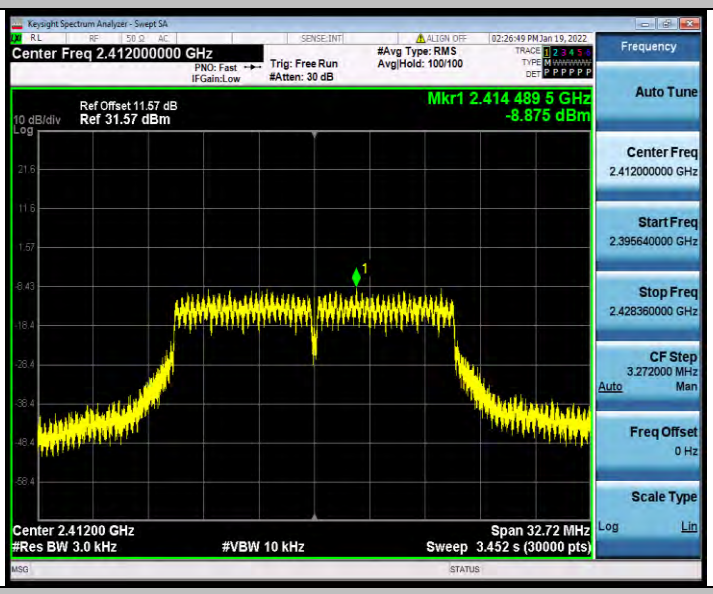
11B_Ant1_2412



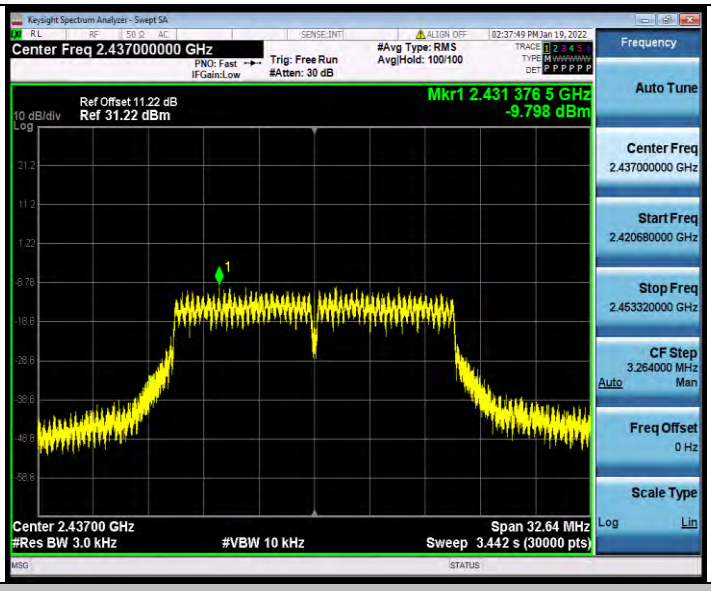
11B_Ant1_2437



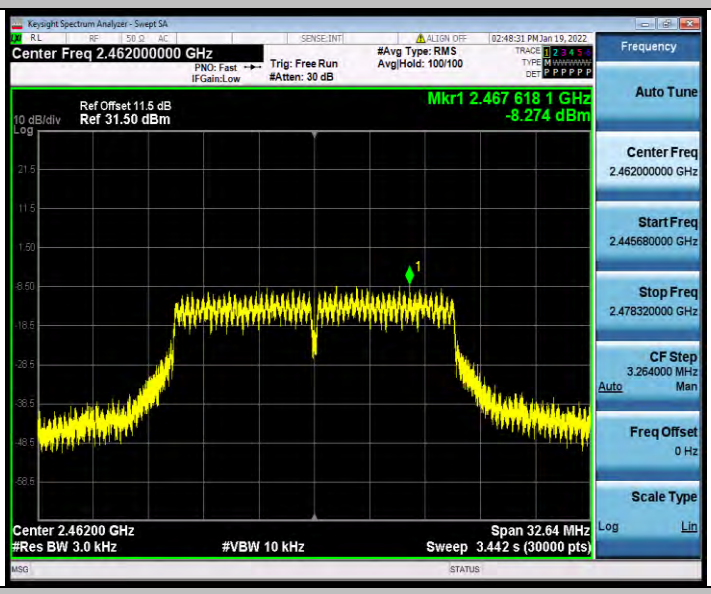
11B_Ant1_2462



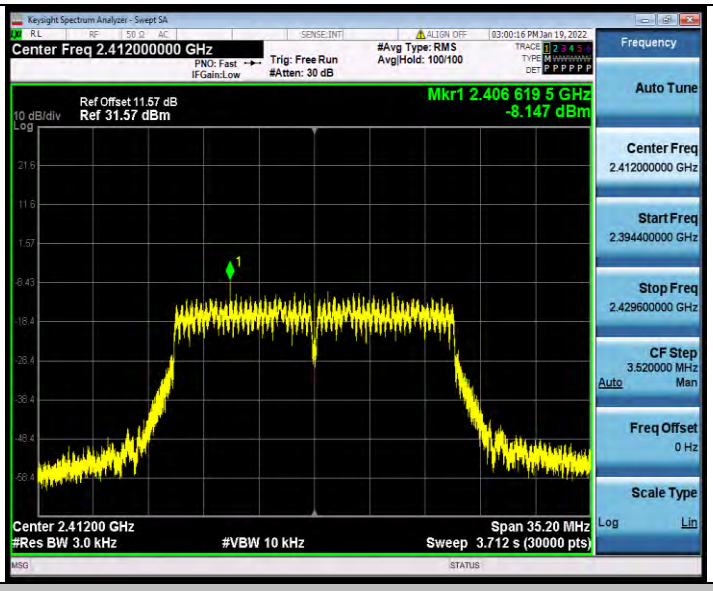
11G_Ant1_2412



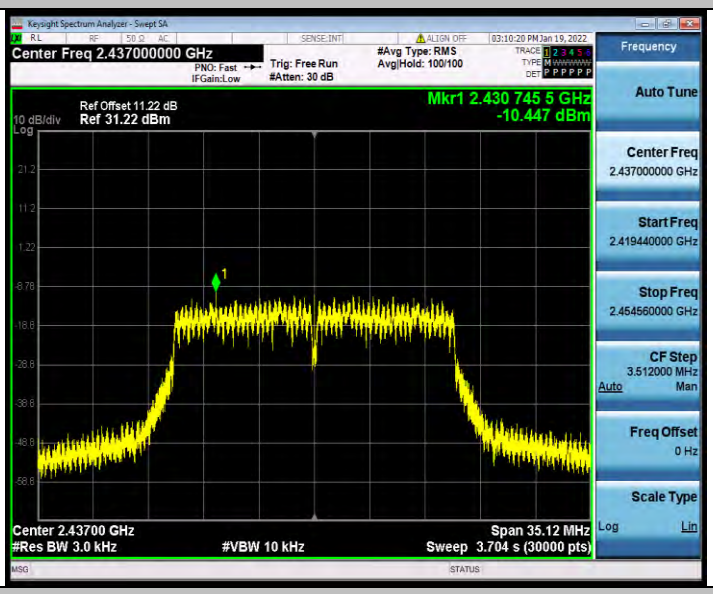
11G_Ant1_2437



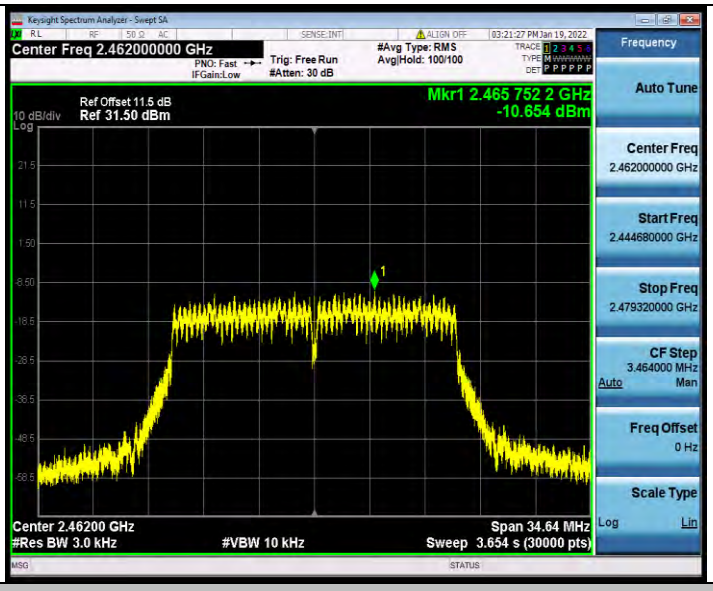
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



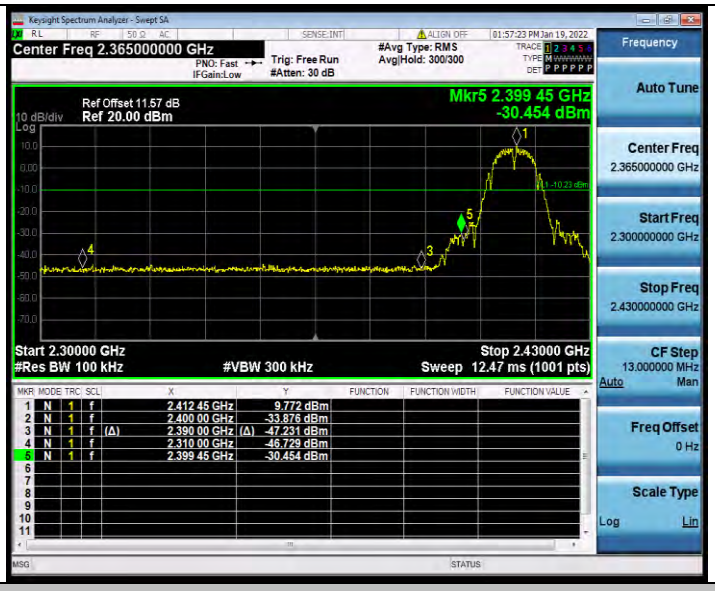
11N20SISO_Ant1_2462

BAND EDGE MEASUREMENTS

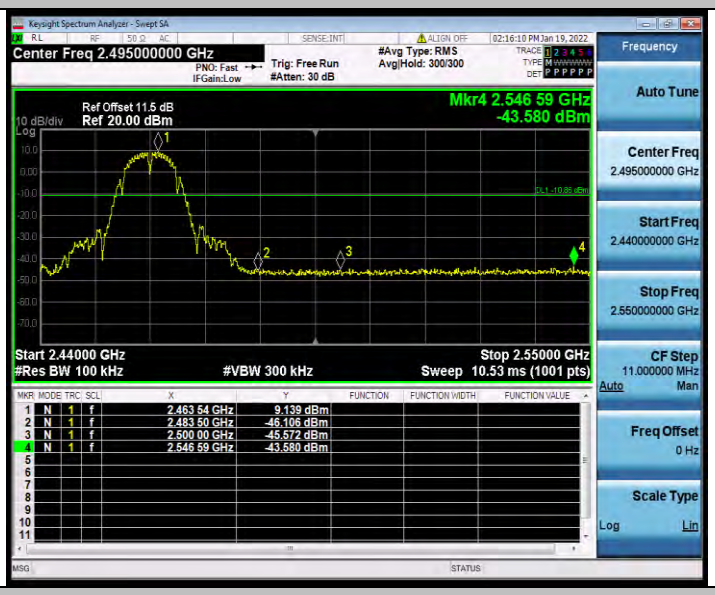
TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.77	-30.45	≤-10.23	PASS
		High	2462	9.14	-43.58	≤-10.86	PASS
11G	Ant1	Low	2412	6.56	-22.18	≤-13.44	PASS
		High	2462	7.16	-31.21	≤-12.84	PASS
11N20SISO	Ant1	Low	2412	4.08	-30.29	≤-15.92	PASS
		High	2462	3.54	-37.62	≤-16.46	PASS

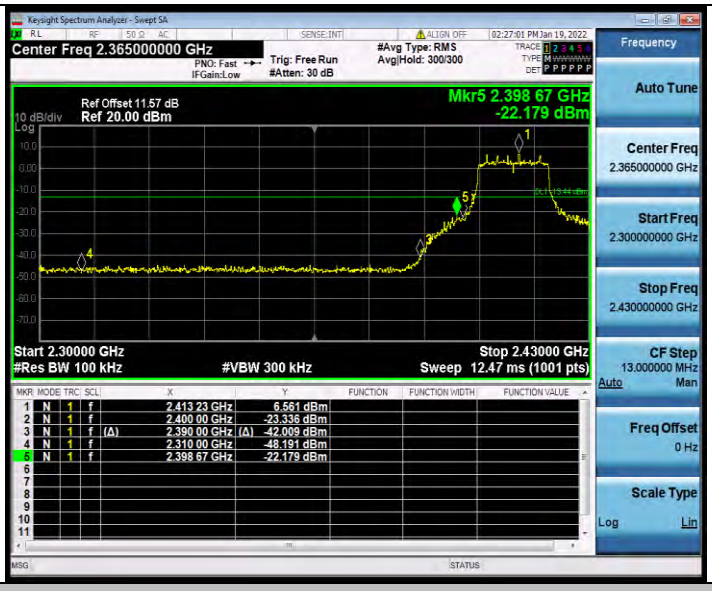
TEST GRAPHS



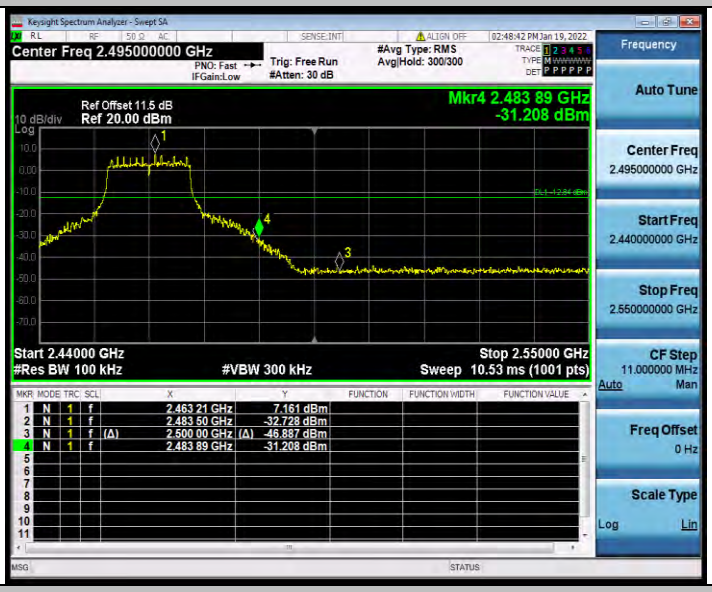
11B_Ant1_Low_2412



11B_Ant1_High_2462

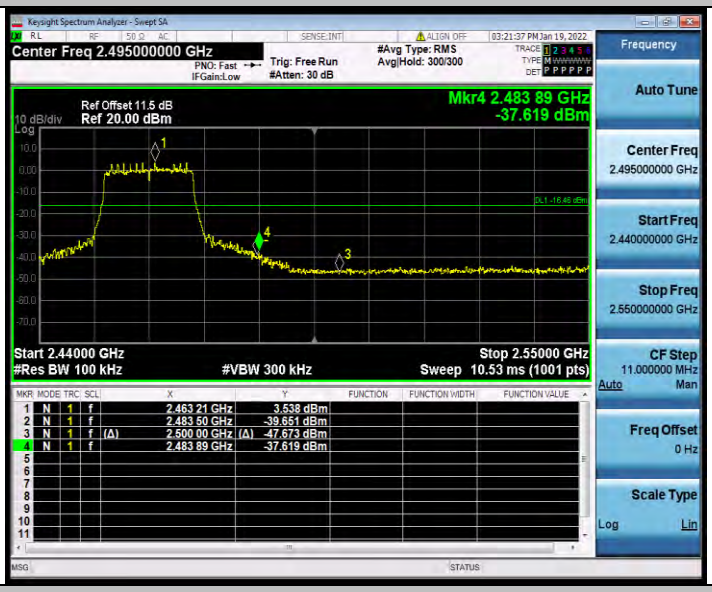


11G_Ant1_Low_2412



11G_Ant1_High_2462

11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

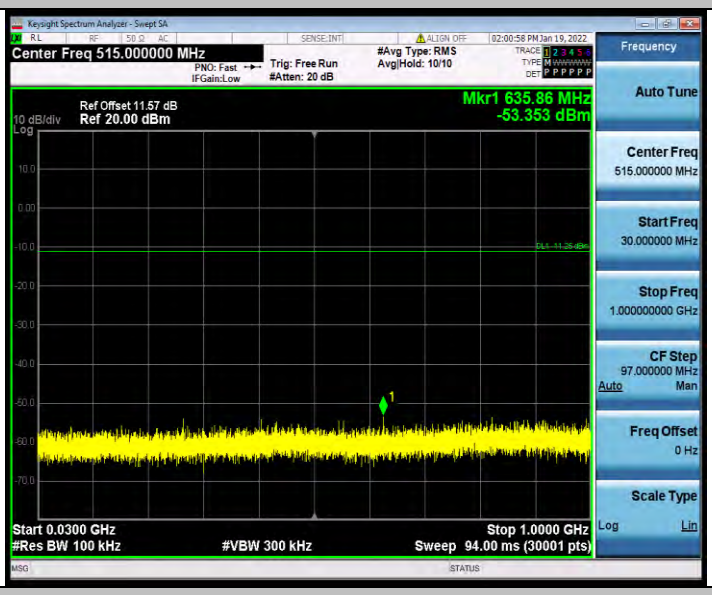
CONDUCTED SPURIOUS EMISSION

TEST RESULT

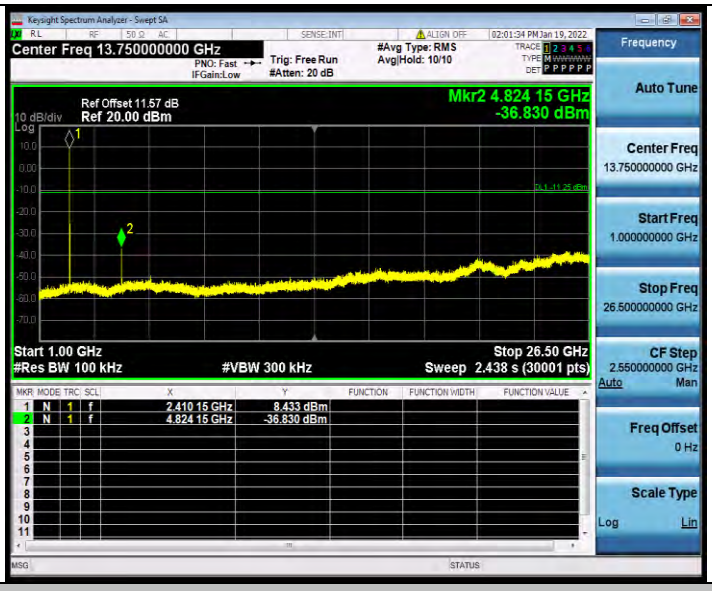
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	8.75	8.75	---	PASS
			30~1000	8.75	-53.35	≤-11.25	PASS
			1000~26500	8.75	-36.83	≤-11.25	PASS
		2437	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-54.02	≤-12.14	PASS
			1000~26500	7.86	-38.16	≤-12.14	PASS
		2462	Reference	8.81	8.81	---	PASS
			30~1000	8.81	-54.03	≤-11.19	PASS
			1000~26500	8.81	-36.96	≤-11.19	PASS
11G	Ant1	2412	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-54.44	≤-17.26	PASS
			1000~26500	2.74	-37.86	≤-17.26	PASS
		2437	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-53.9	≤-15.35	PASS
			1000~26500	4.65	-37.58	≤-15.35	PASS
		2462	Reference	3.05	3.05	---	PASS
			30~1000	3.05	-53.69	≤-16.95	PASS
			1000~26500	3.05	-37.69	≤-16.95	PASS
11N20SISO	Ant1	2412	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-53.82	≤-19.42	PASS
			1000~26500	0.59	-37.56	≤-19.42	PASS
		2437	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-54.24	≤-15.72	PASS
			1000~26500	4.28	-38.06	≤-15.72	PASS
		2462	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-53.43	≤-17.41	PASS
			1000~26500	2.59	-38.21	≤-17.41	PASS

TEST GRAPHS

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



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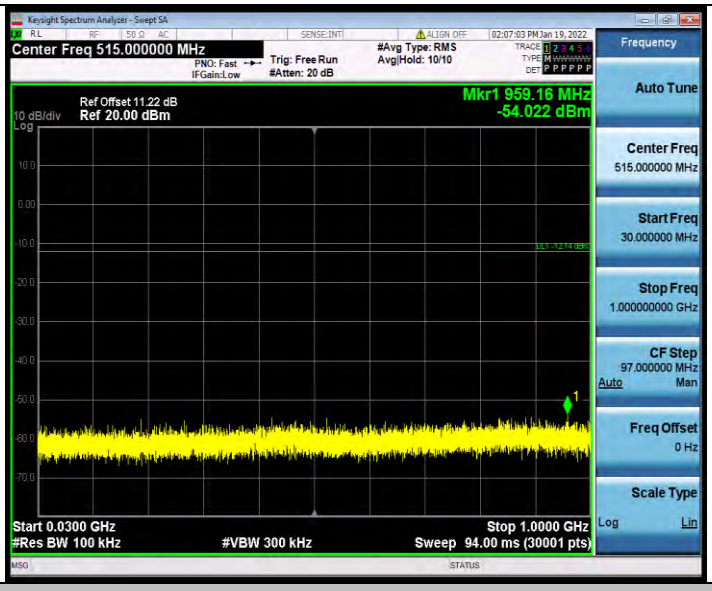

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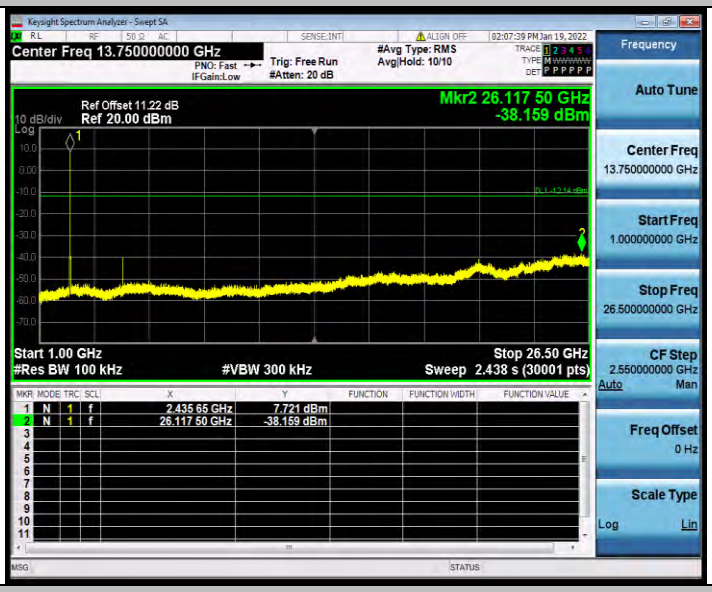

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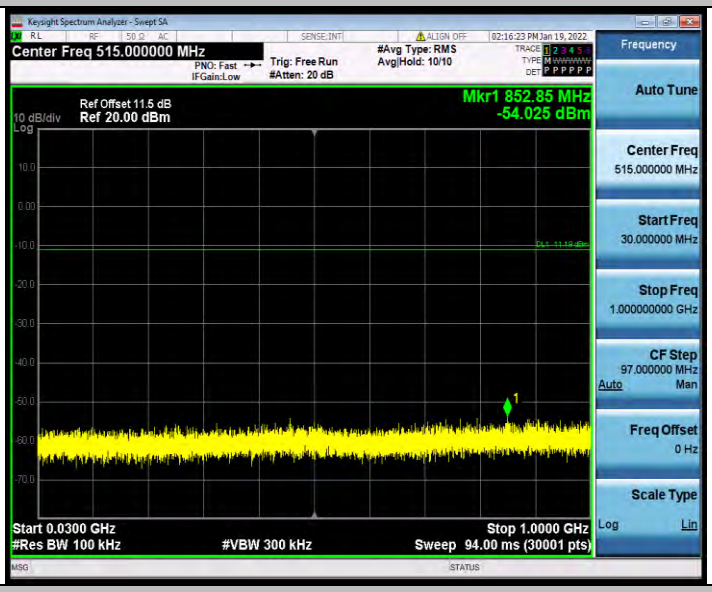

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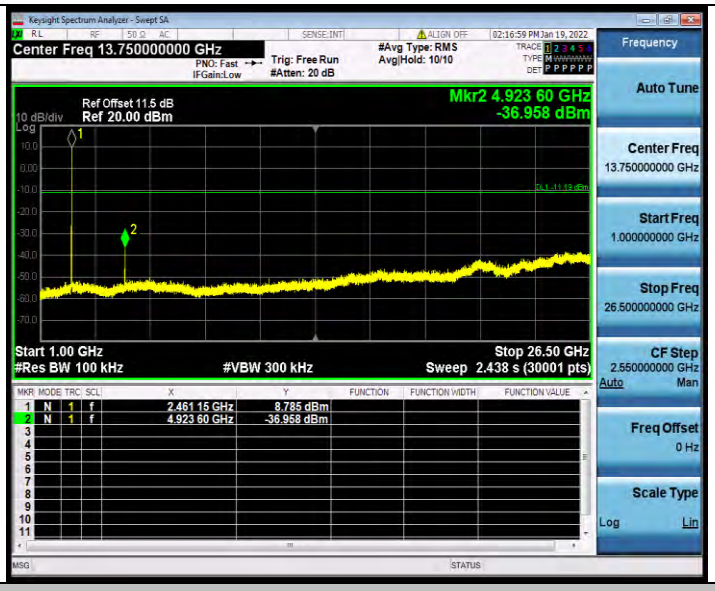

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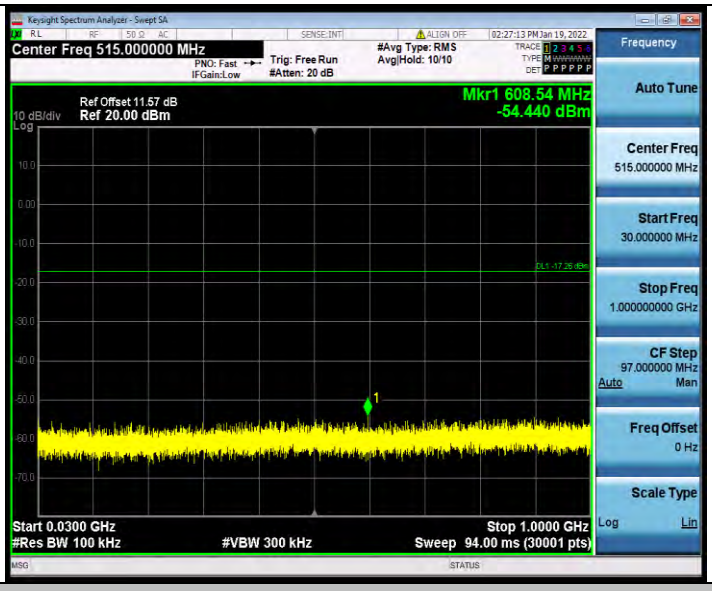

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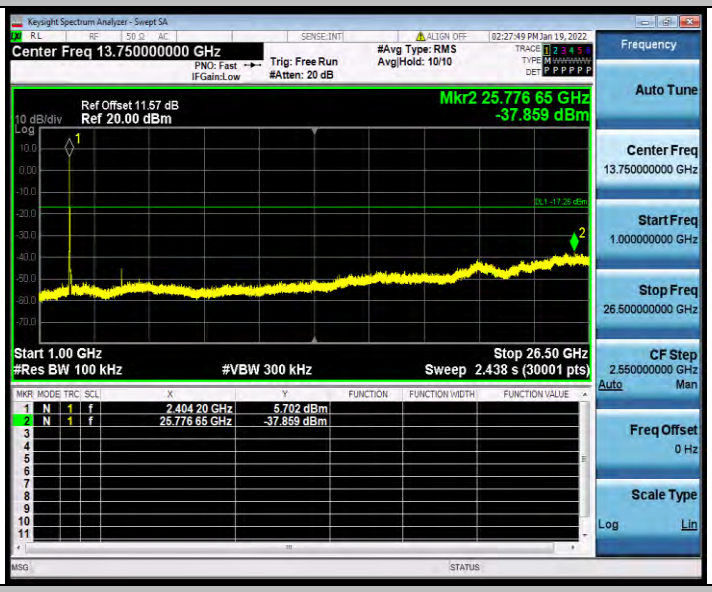

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