



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WEBOS SMART TV

Test Model: PTVWEB75UHD

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Libin

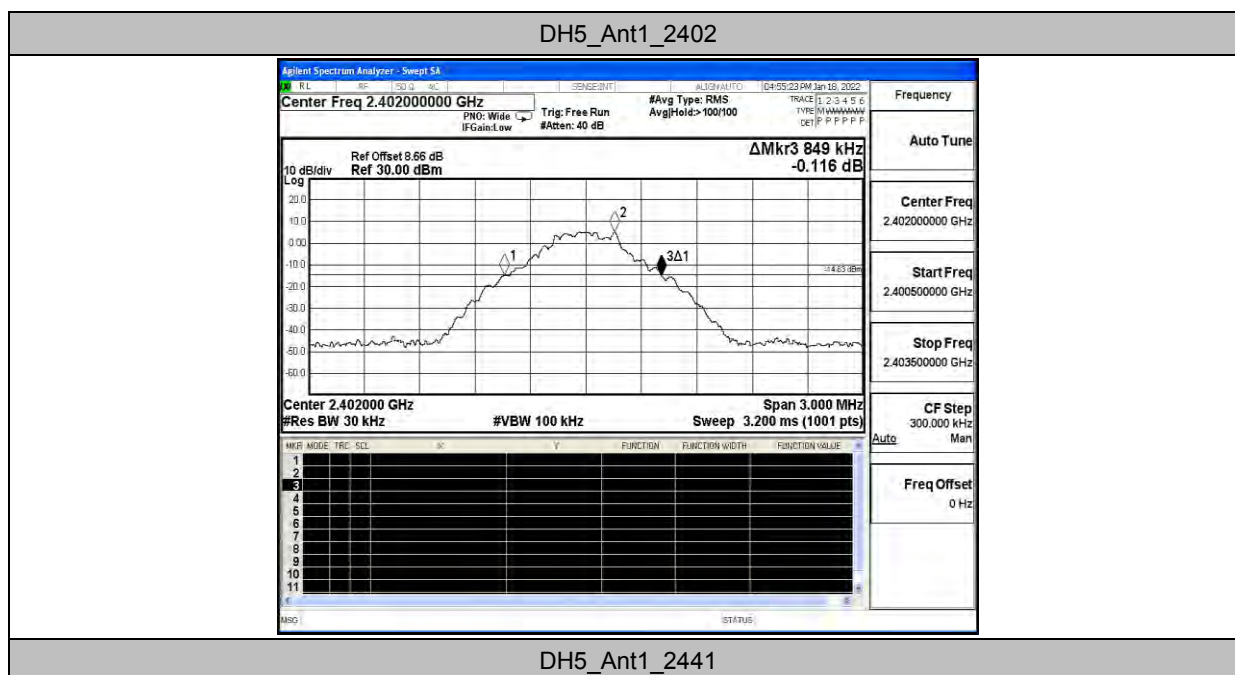


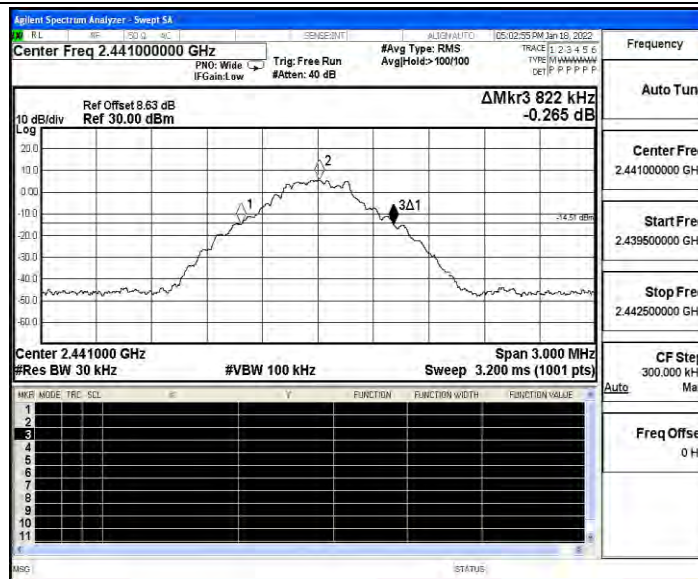
A.1 20dB Emission Bandwidth

Test Result

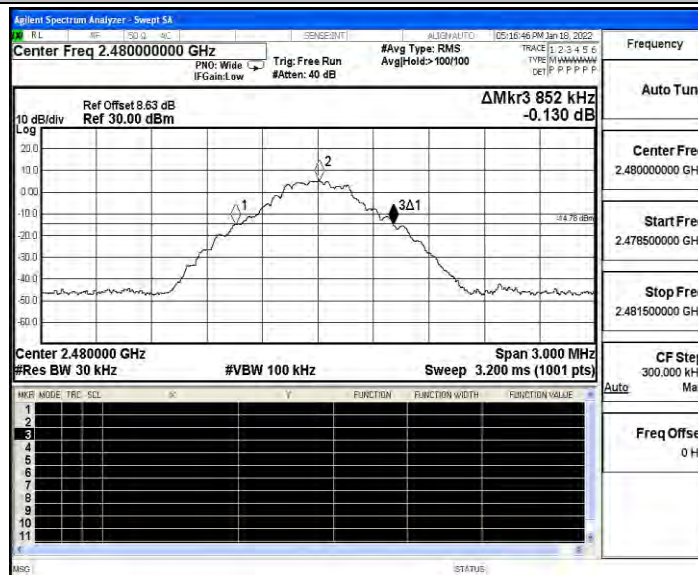
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.849	2401.559	2402.408	---	---
		2441	0.822	2440.586	2441.408	---	---
		2480	0.852	2479.556	2480.408	---	---
2DH5	Ant1	2402	1.320	2401.331	2402.651	---	---
		2441	1.332	2440.325	2441.657	---	---
		2480	1.332	2479.325	2480.657	---	---
3DH5	Ant1	2402	1.308	2401.340	2402.648	---	---
		2441	1.326	2440.334	2441.660	---	---
		2480	1.308	2479.340	2480.648	---	---

Test Graphs

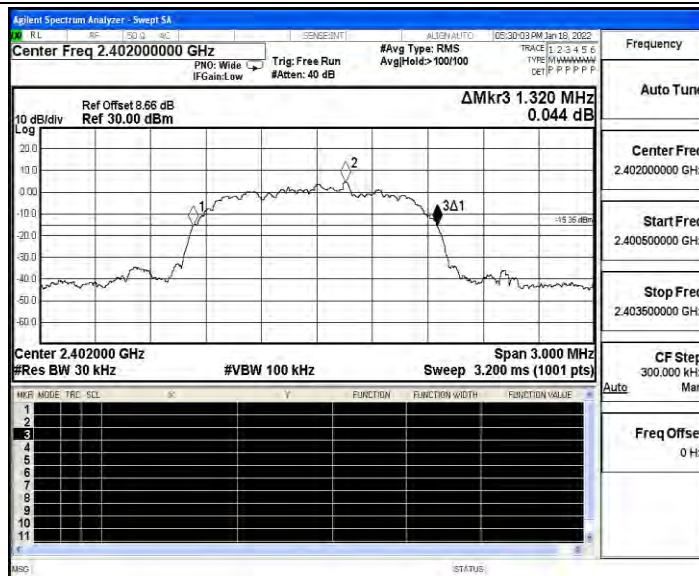




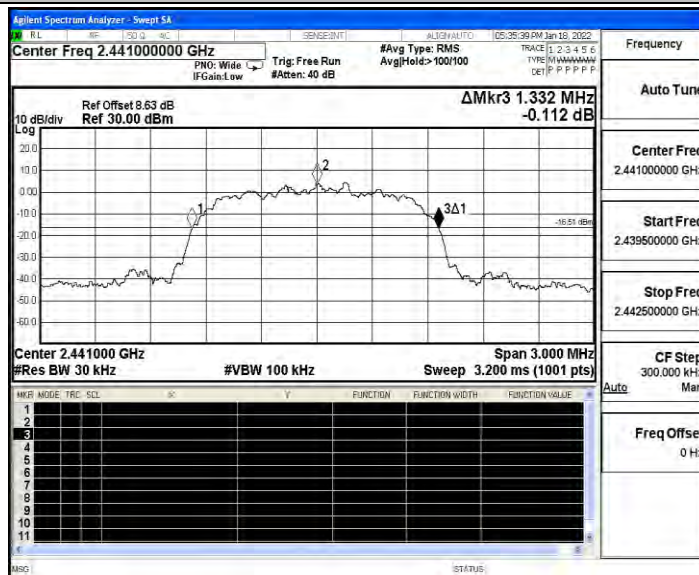
DH5_Ant1_2480



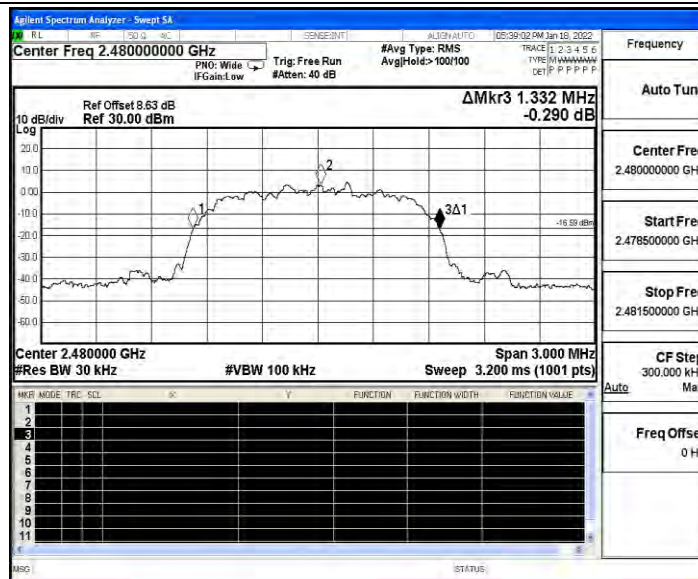
2DH5_Ant1_2402



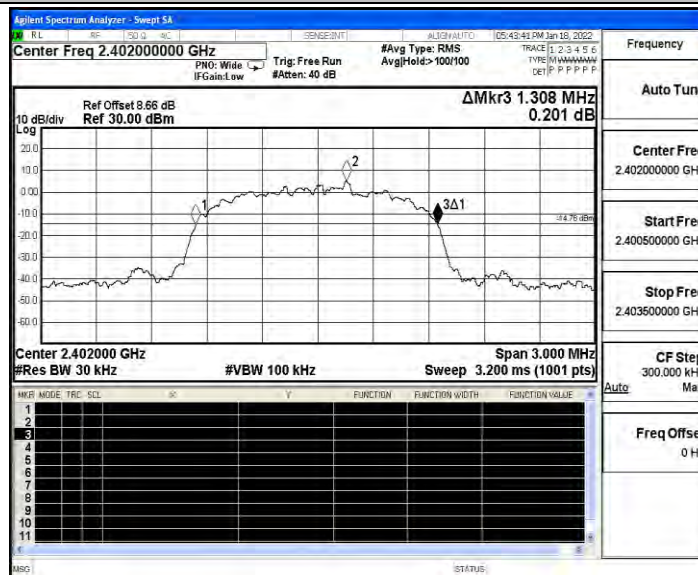
2DH5_Ant1_2441



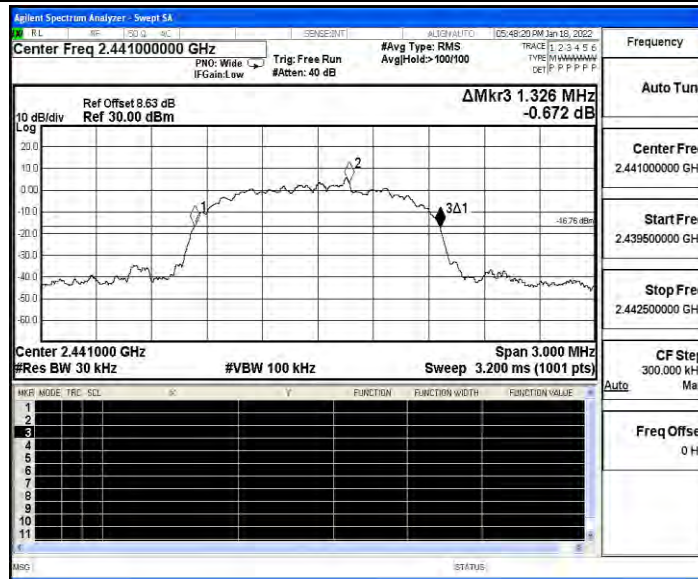
2DH5_Ant1_2480



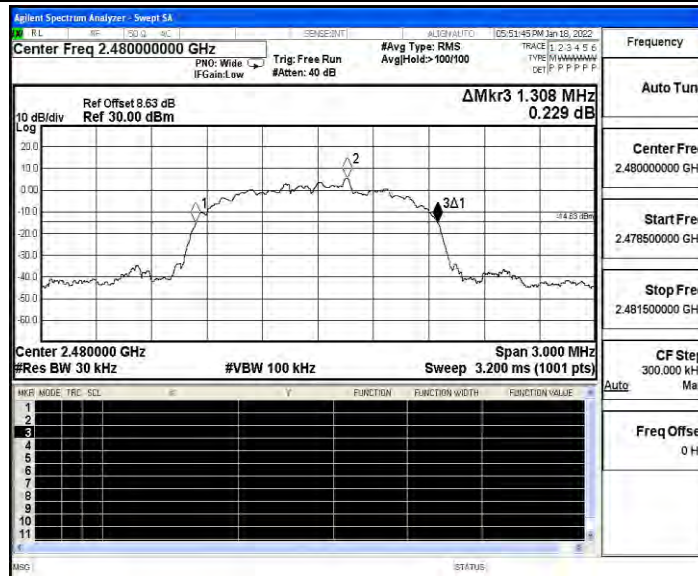
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	8.01	≤ 20.97	PASS
		2441	8.15	≤ 20.97	PASS
		2480	8.01	≤ 20.97	PASS
2DH5	Ant1	2402	10.32	≤ 20.97	PASS
		2441	10.48	≤ 20.97	PASS
		2480	10.34	≤ 20.97	PASS
3DH5	Ant1	2402	10.77	≤ 20.97	PASS
		2441	10.92	≤ 20.97	PASS
		2480	10.57	≤ 20.97	PASS



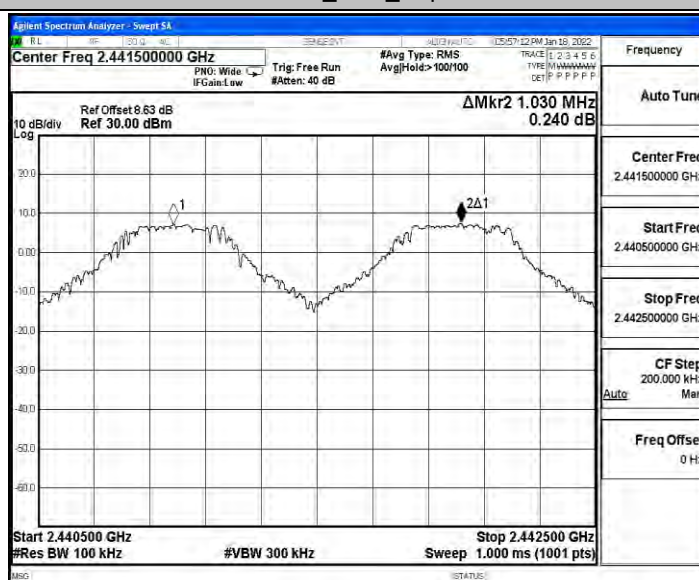
A.3 Carrier frequency separation

Test Result

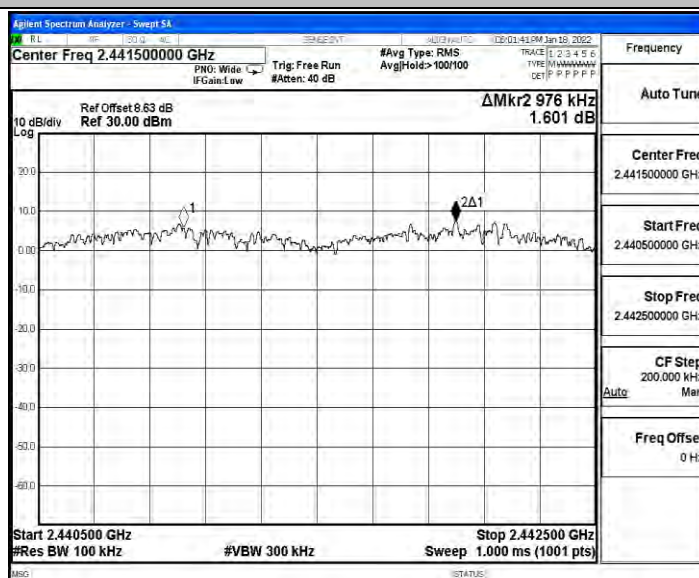
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.03	≥ 0.852	PASS
2DH5	Ant1	Hop	0.976	≥ 0.888	PASS
3DH5	Ant1	Hop	0.982	≥ 0.884	PASS

Test Graphs

DH5_Ant1_Hop

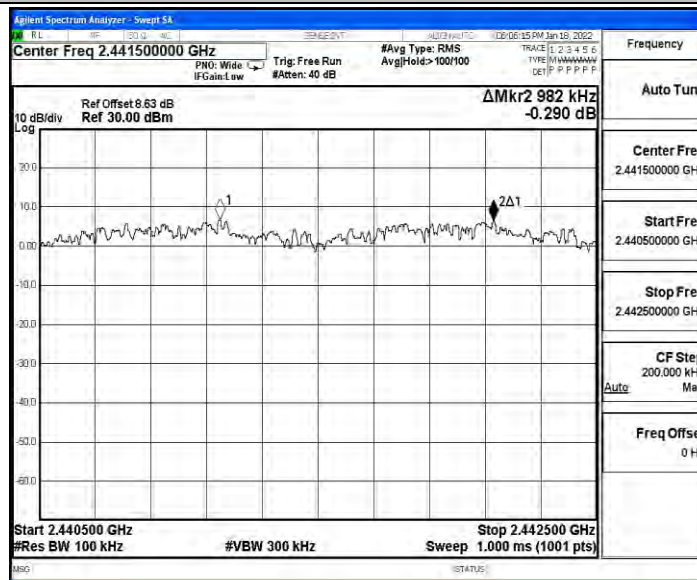


2DH5_Ant1_Hop





3DH5_Ant1_Hop



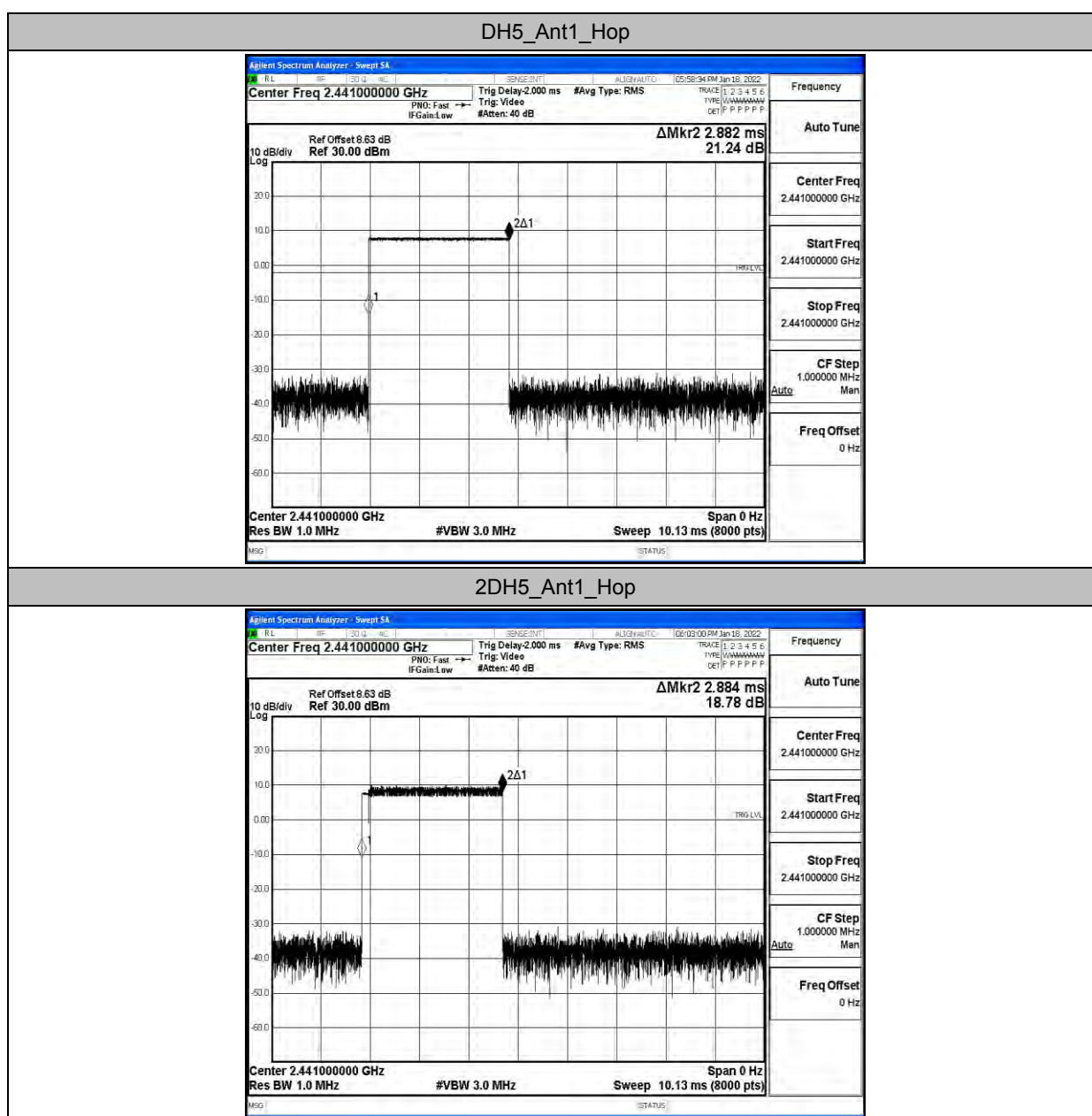


A.4 Time of occupancy

Test Result

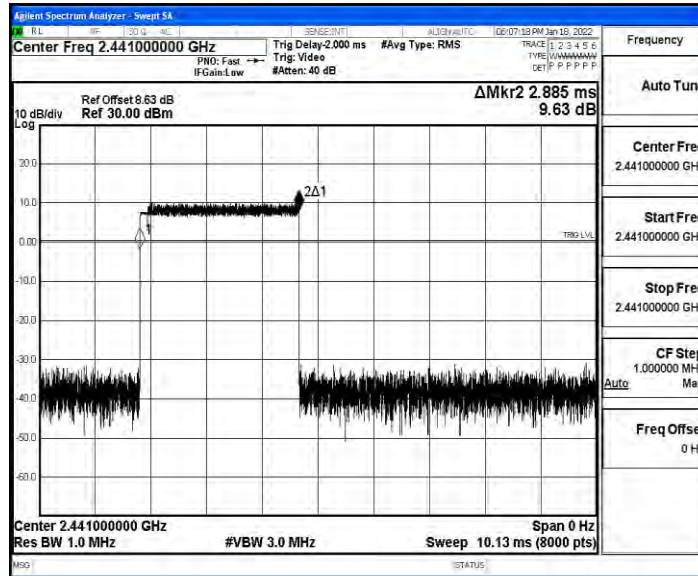
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop





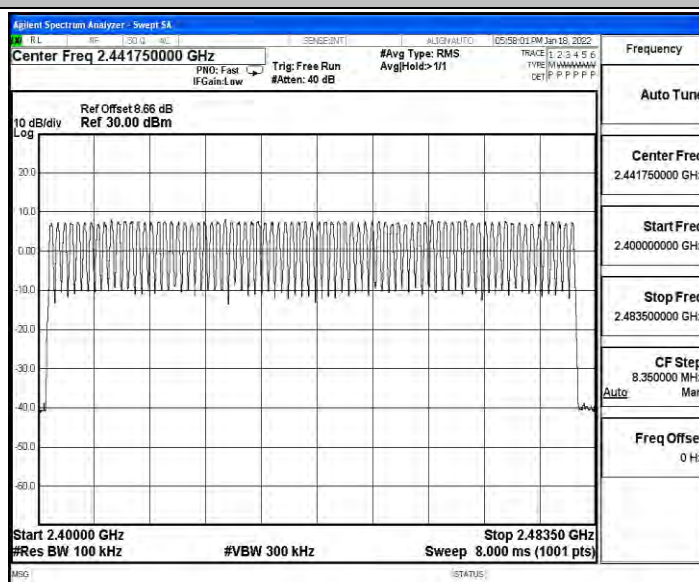
A.5 Number of hopping channels

Test Result

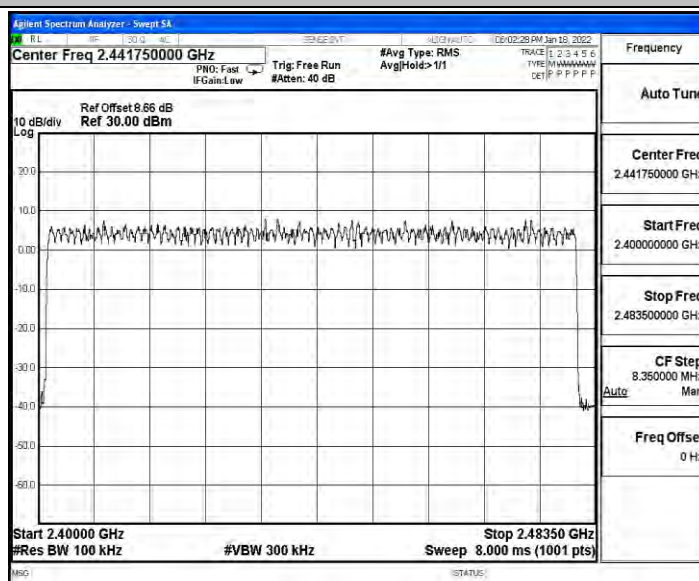
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test Graphs

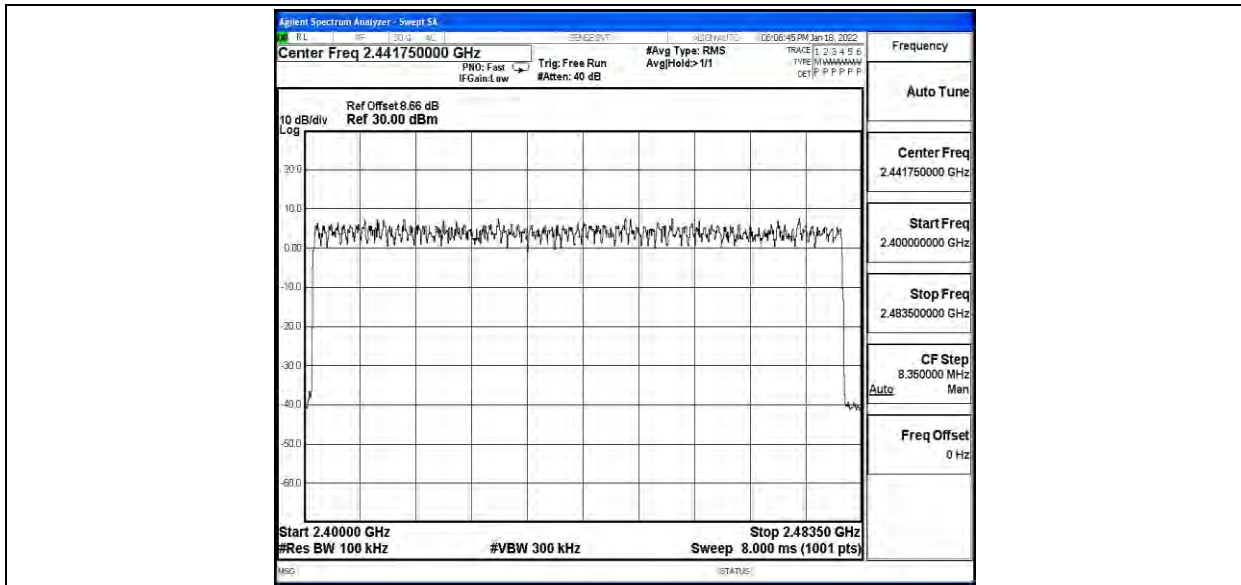
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



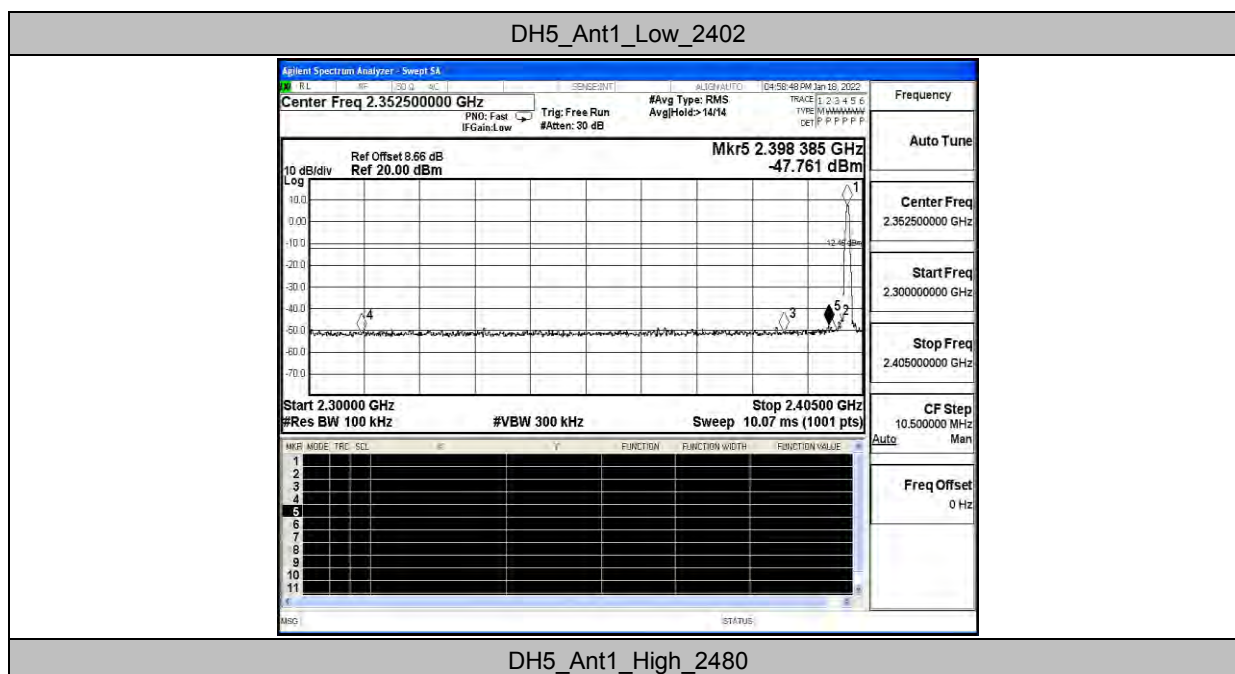


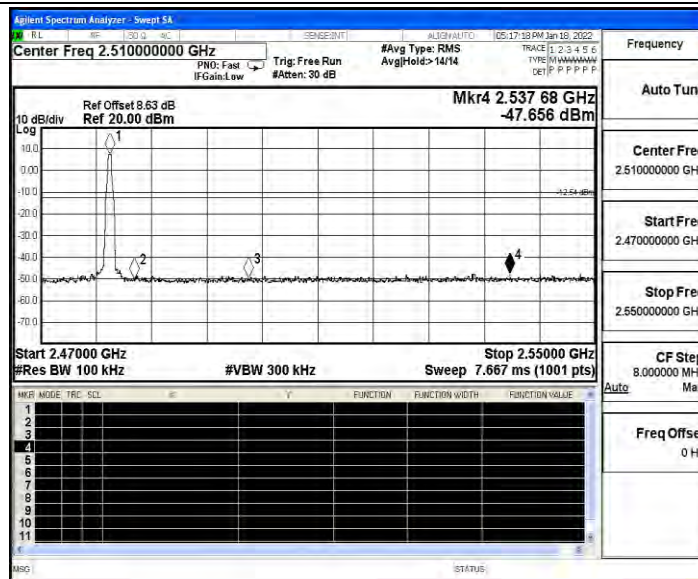
A.6 Band edge measurements

Test Result

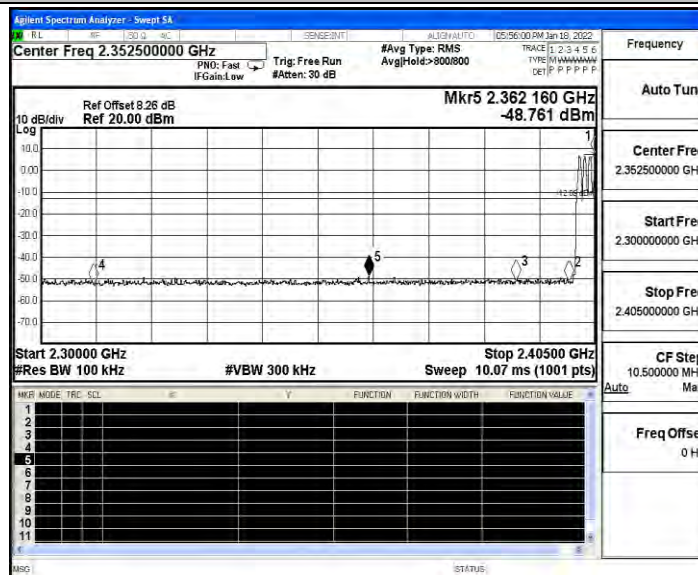
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.54	-47.76	≤ -12.46	PASS
		High	2480	7.46	-47.66	≤ -12.54	PASS
		Low	Hop_2402	7.11	-48.76	≤ -12.89	PASS
		High	Hop_2480	7.53	-47.62	≤ -12.47	PASS
2DH5	Ant1	Low	2402	7.37	-47.65	≤ -12.63	PASS
		High	2480	7.36	-47.68	≤ -12.64	PASS
		Low	Hop_2402	4.82	-48.6	≤ -15.18	PASS
		High	Hop_2480	6.30	-47.79	≤ -13.7	PASS
3DH5	Ant1	Low	2402	7.06	-47.74	≤ -12.94	PASS
		High	2480	7.42	-48.38	≤ -12.58	PASS
		Low	Hop_2402	5.89	-49.55	≤ -14.11	PASS
		High	Hop_2480	5.58	-48.16	≤ -14.42	PASS

Test Graphs

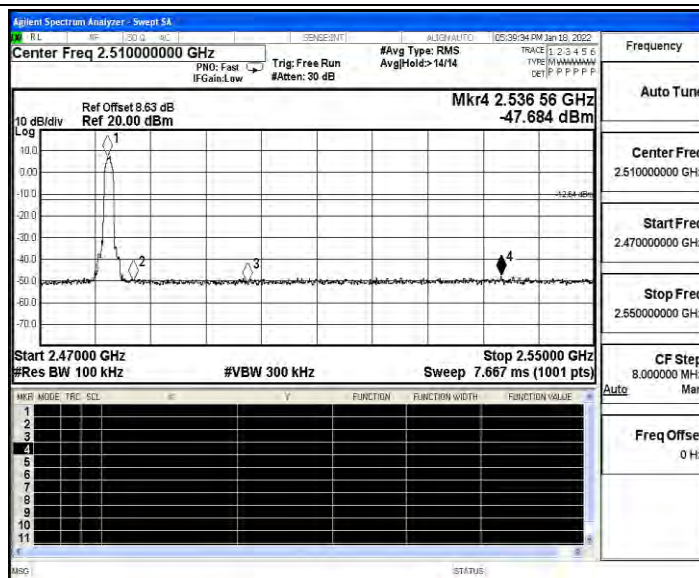




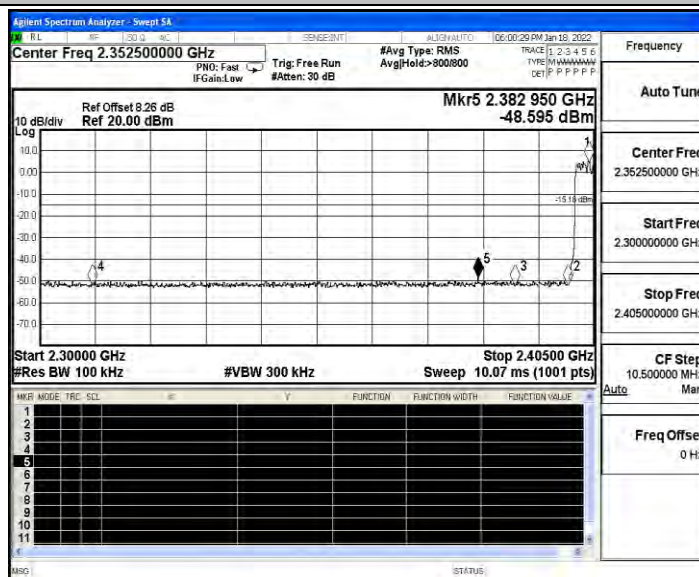
DH5_Ant1_Low_Hop_2402



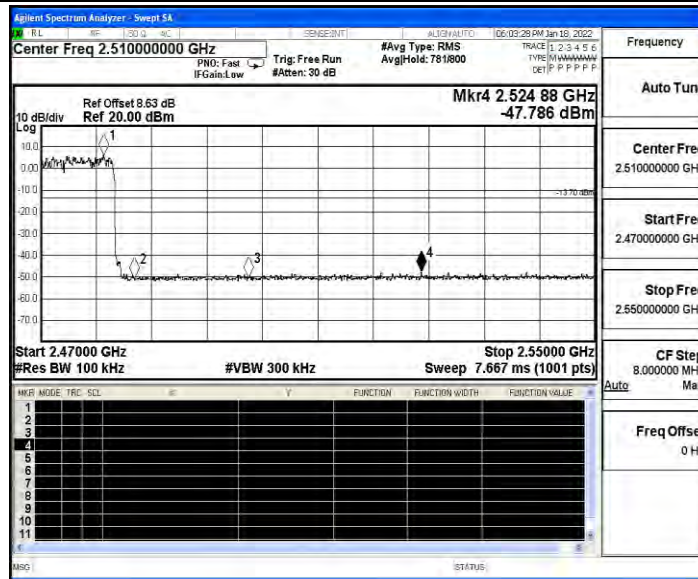
DH5_Ant1_High_Hop_2480



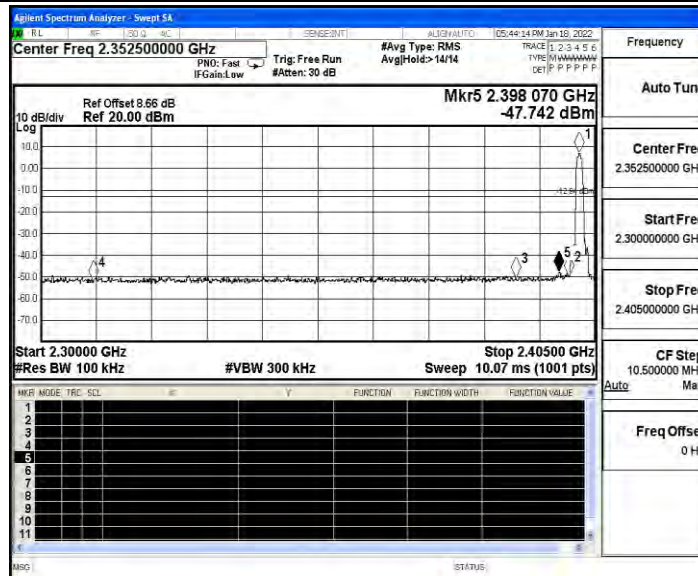
2DH5_Ant1_Low_Hop_2402



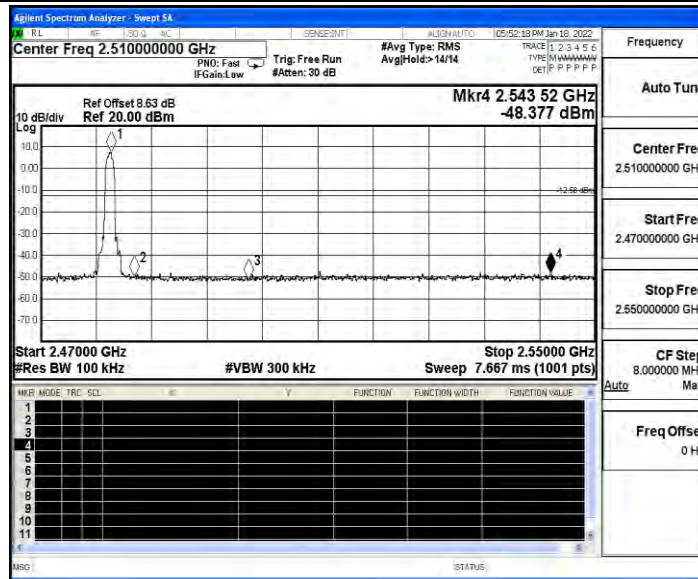
2DH5_Ant1_High_Hop_2480



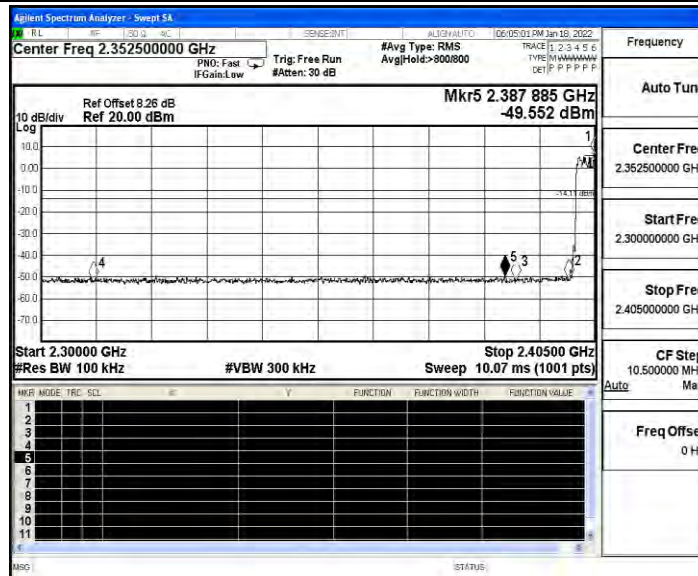
3DH5_Ant1_Low_2402



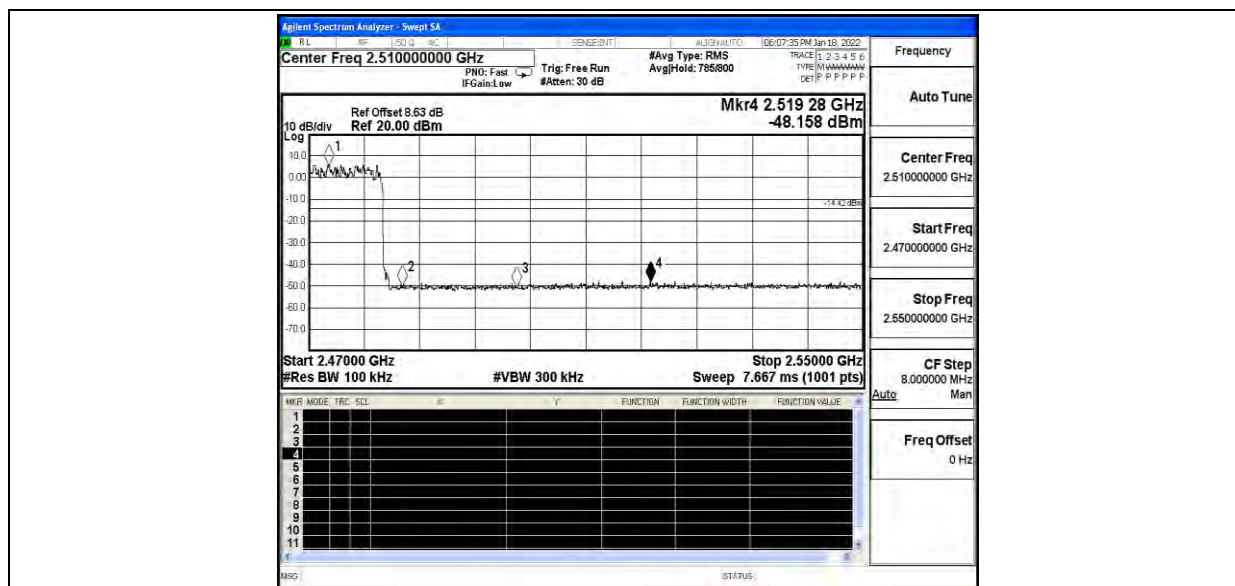
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

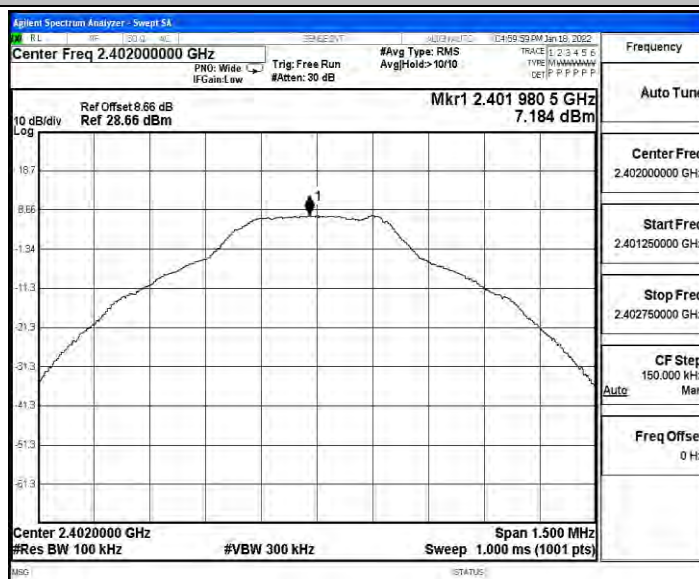
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.18	7.18	---	PASS
			30~1000	7.18	-60.76	≤ -12.82	PASS
			1000~26500	7.18	-45.54	≤ -12.82	PASS
		2441	Reference	7.45	7.45	---	PASS
			30~1000	7.45	-60.72	≤ -12.55	PASS
			1000~26500	7.45	-45.99	≤ -12.55	PASS
		2480	Reference	7.13	7.13	---	PASS
			30~1000	7.13	-60.69	≤ -12.87	PASS
			1000~26500	7.13	-46.16	≤ -12.87	PASS
2DH5	Ant1	2402	Reference	7.02	7.02	---	PASS
			30~1000	7.02	-60.05	≤ -12.98	PASS
			1000~26500	7.02	-46.16	≤ -12.98	PASS
		2441	Reference	7.65	7.65	---	PASS
			30~1000	7.65	-60.48	≤ -12.35	PASS
			1000~26500	7.65	-45.98	≤ -12.35	PASS
		2480	Reference	7.29	7.29	---	PASS
			30~1000	7.29	-60.54	≤ -12.71	PASS
			1000~26500	7.29	-46.2	≤ -12.71	PASS
3DH5	Ant1	2402	Reference	7.28	7.28	---	PASS
			30~1000	7.28	-60.96	≤ -12.72	PASS
			1000~26500	7.28	-45.5	≤ -12.72	PASS
		2441	Reference	7.64	7.64	---	PASS
			30~1000	7.64	-60.79	≤ -12.36	PASS
			1000~26500	7.64	-43.17	≤ -12.36	PASS
		2480	Reference	7.18	7.18	---	PASS
			30~1000	7.18	-60.84	≤ -12.82	PASS
			1000~26500	7.18	-45.82	≤ -12.82	PASS

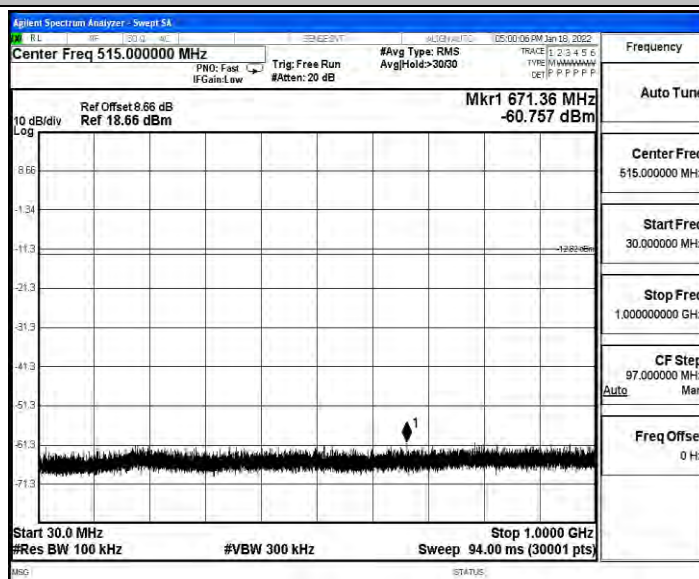


Test Graphs

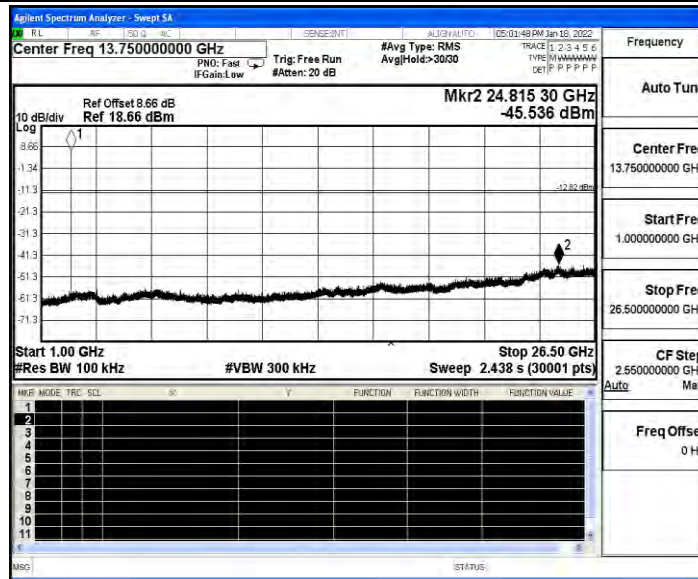
DH5_Ant1_2402_0~Reference



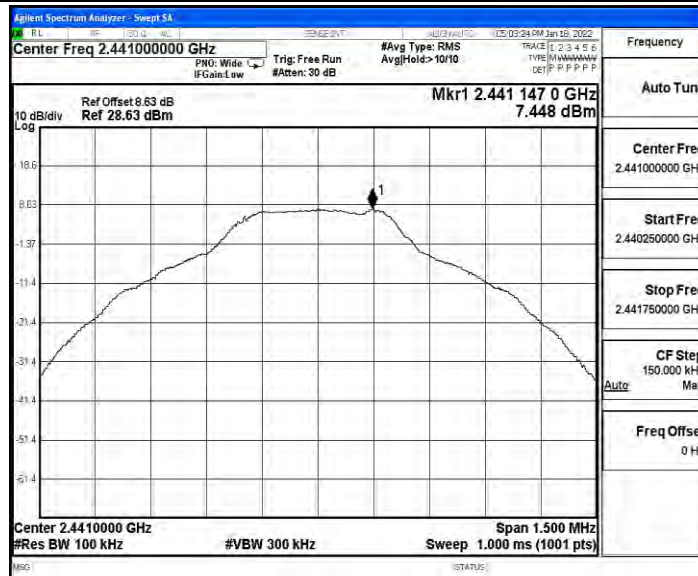
DH5_Ant1_2402_30~1000



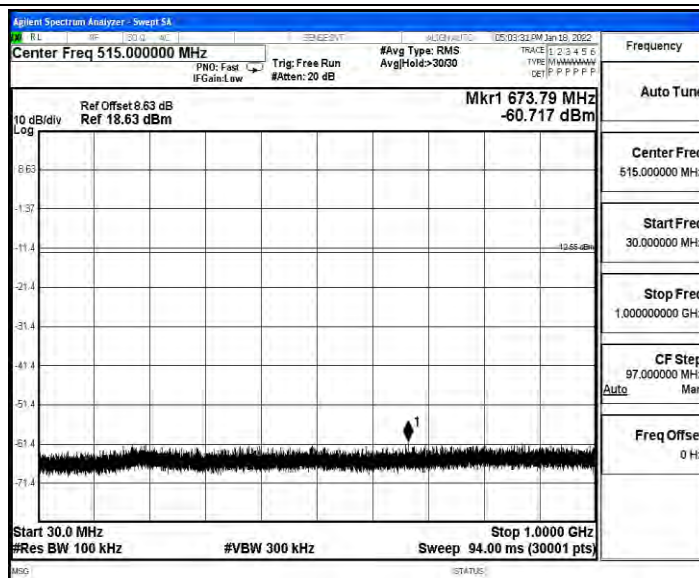
DH5_Ant1_2402_1000~26500



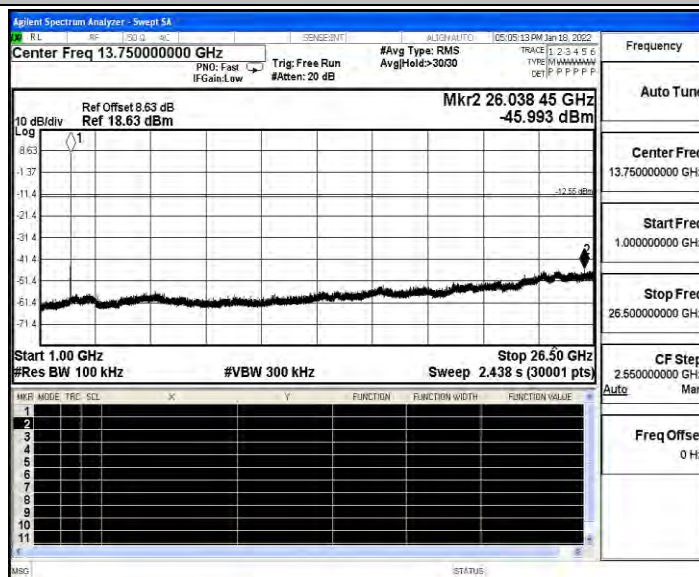
DH5_Ant1_2441_0~Reference



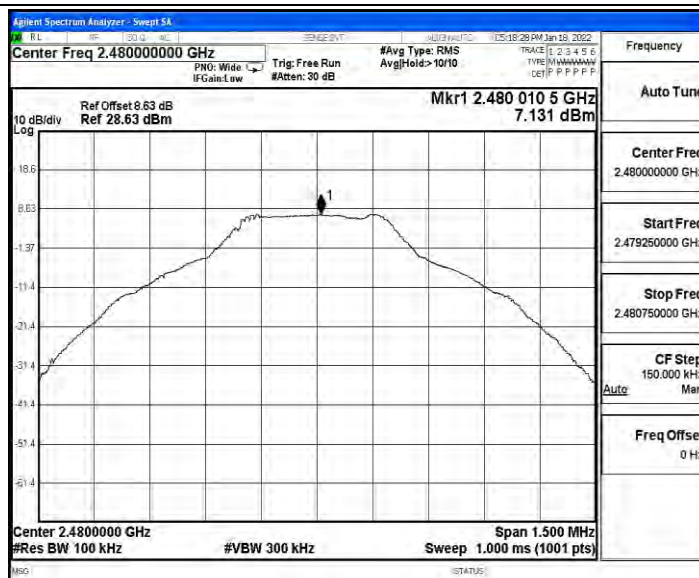
DH5_Ant1_2441_30~1000



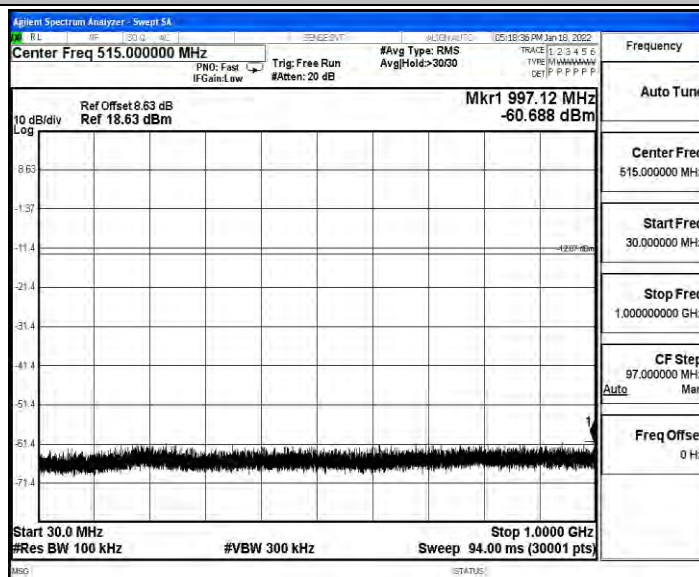
DH5_Ant1_2441_1000~26500



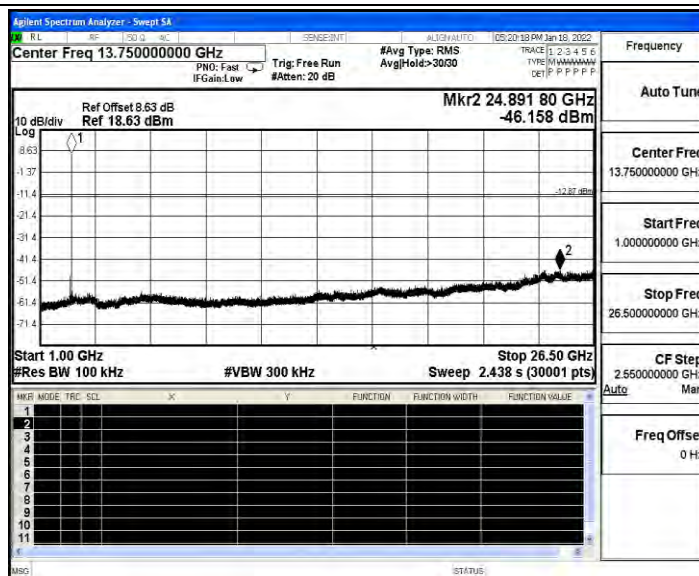
DH5_Ant1_2480_0~Reference



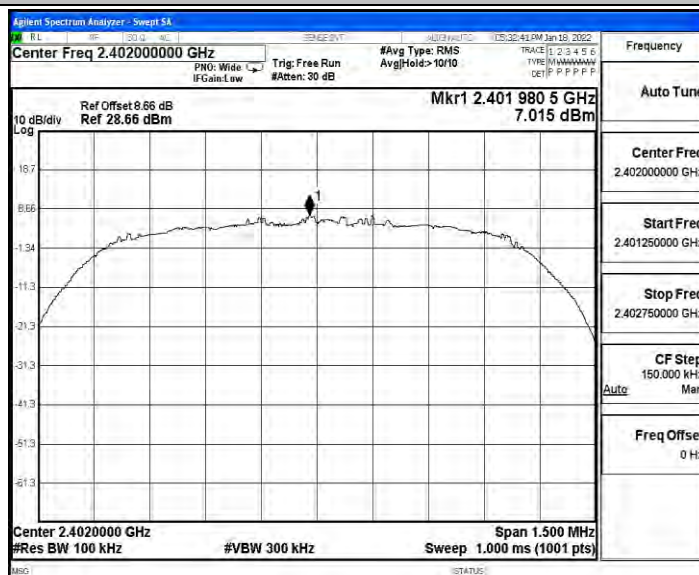
DH5_Ant1_2480_30~1000



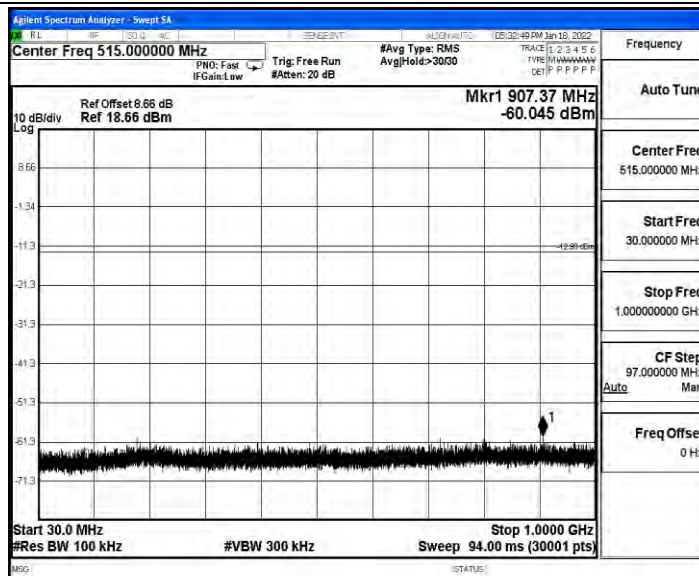
DH5_Ant1_2480_1000~26500



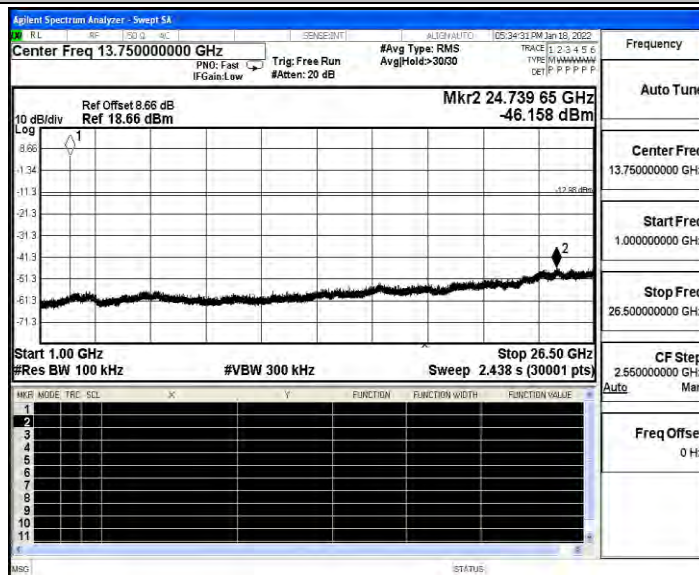
2DH5_Ant1_2402_0~Reference



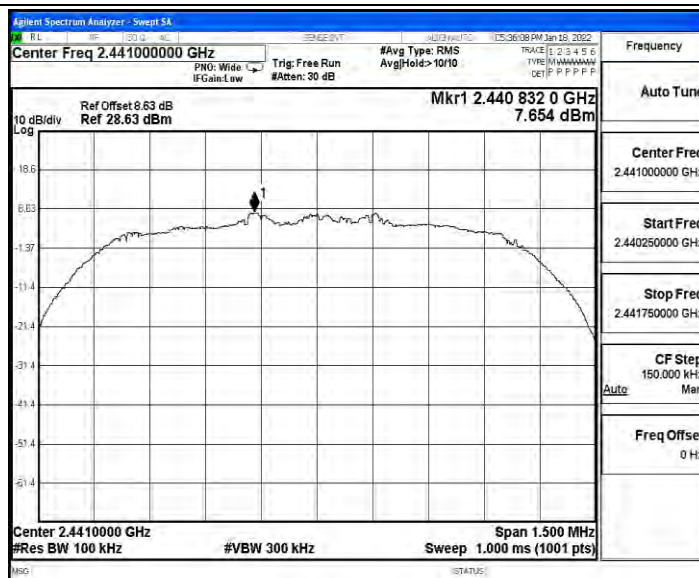
2DH5_Ant1_2402_30~1000



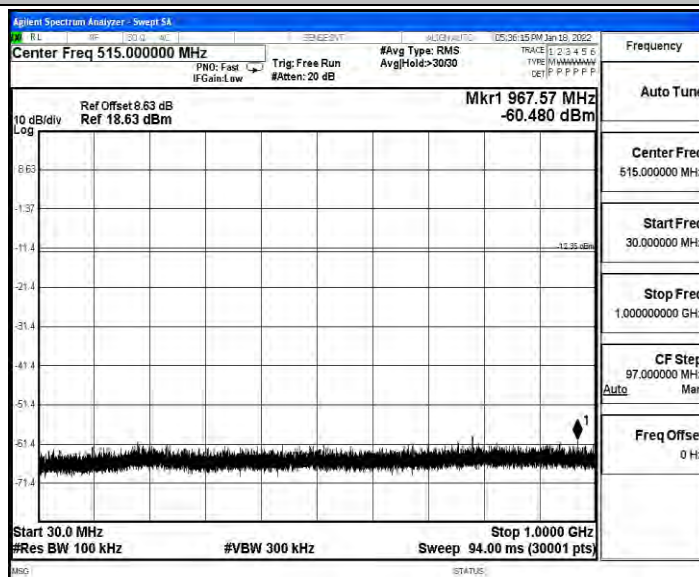
2DH5_Ant1_2402_1000~26500



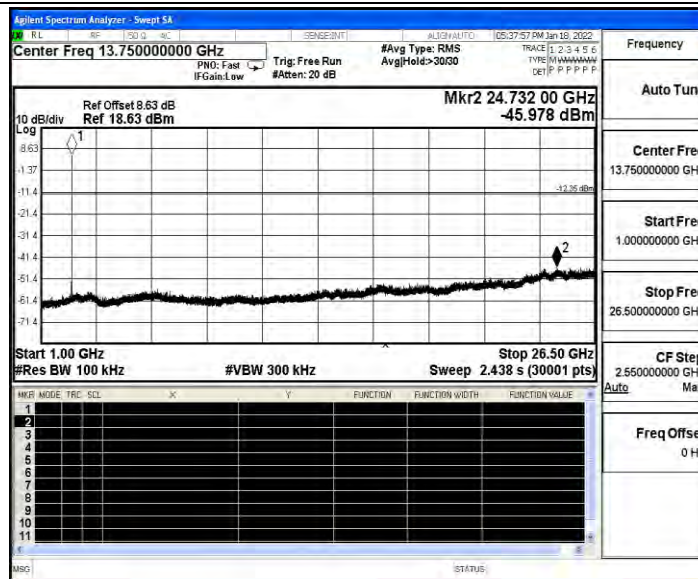
2DH5_Ant1_2441_0~Reference



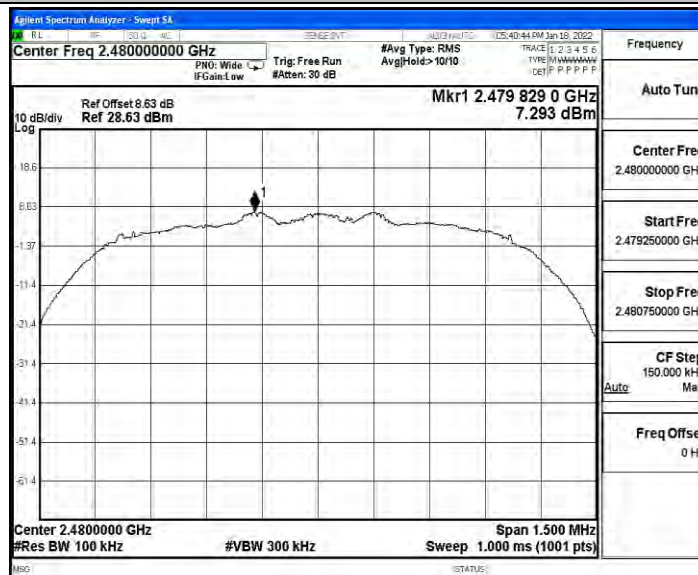
2DH5_Ant1_2441_30~1000



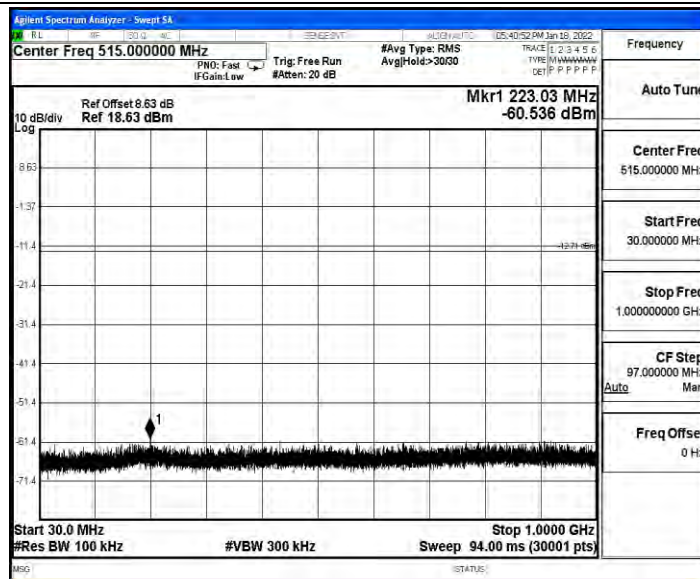
2DH5_Ant1_2441_1000~26500



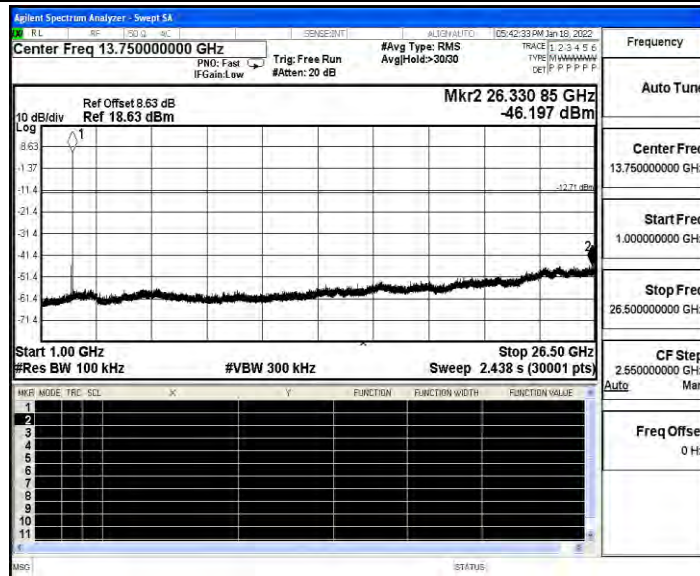
2DH5_Ant1_2480_0~Reference



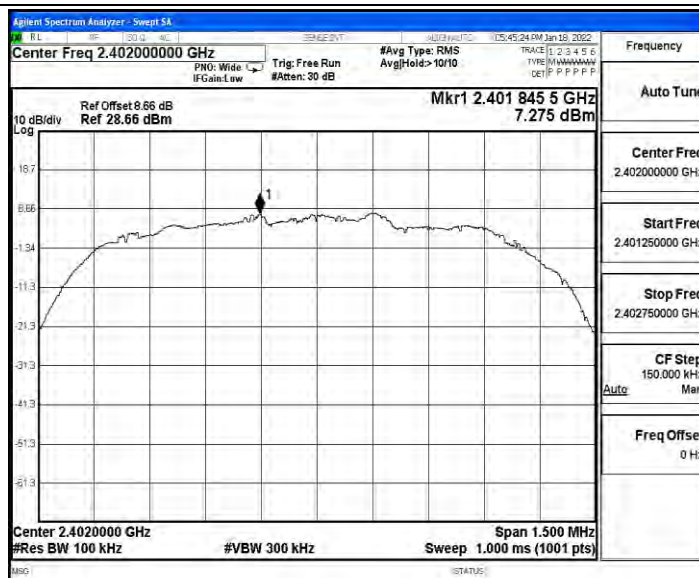
2DH5_Ant1_2480_30~1000



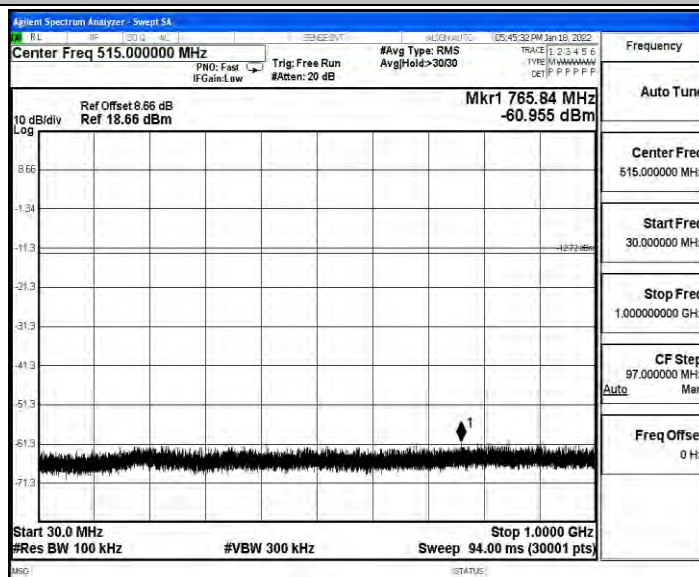
2DH5_Ant1_2480_1000~26500



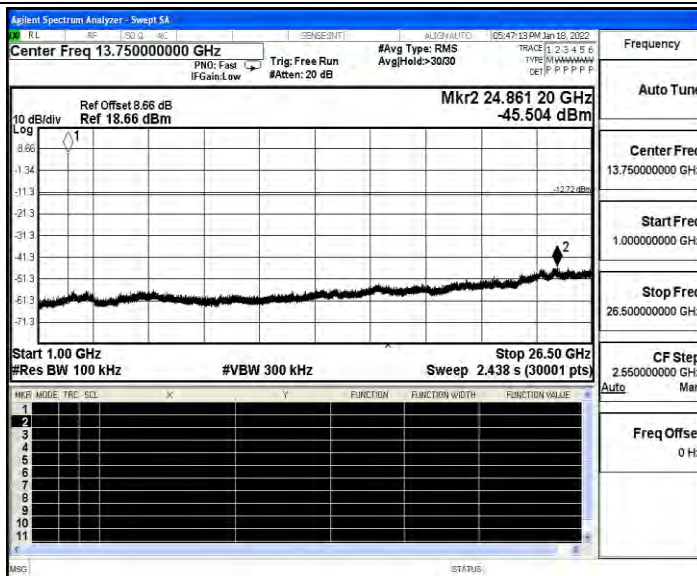
3DH5_Ant1_2402_0~Reference



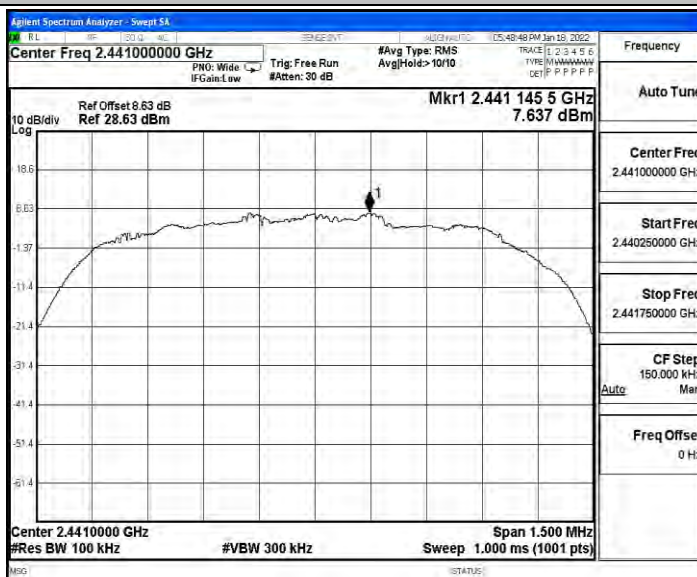
3DH5_Ant1_2402_30~1000



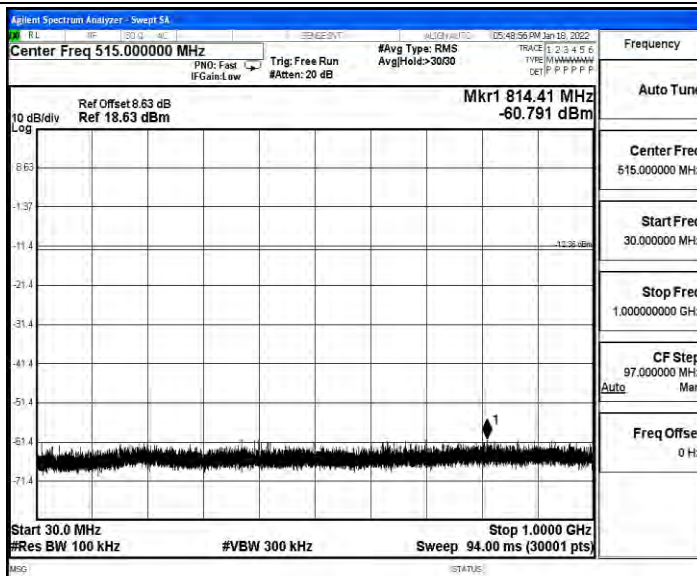
3DH5_Ant1_2402_1000~26500



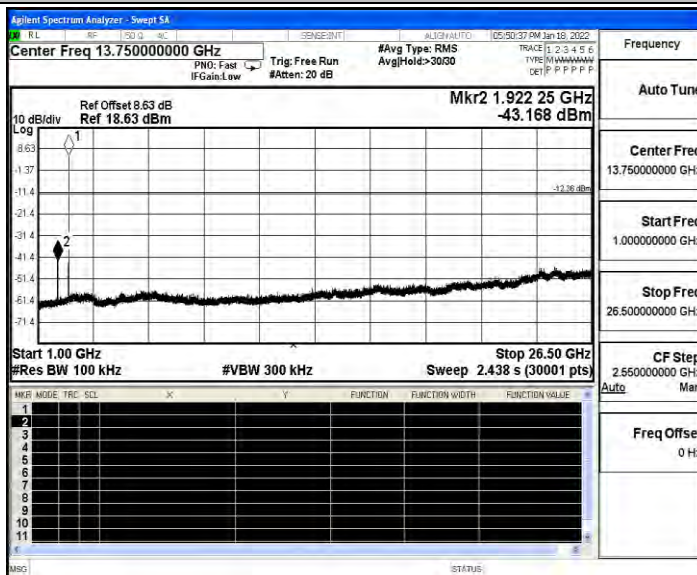
3DH5_Ant1_2441_0~Reference



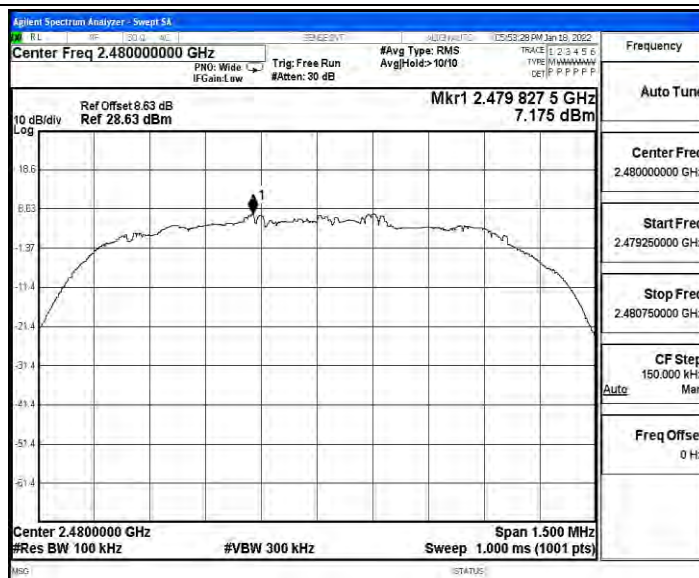
3DH5_Ant1_2441_30~1000



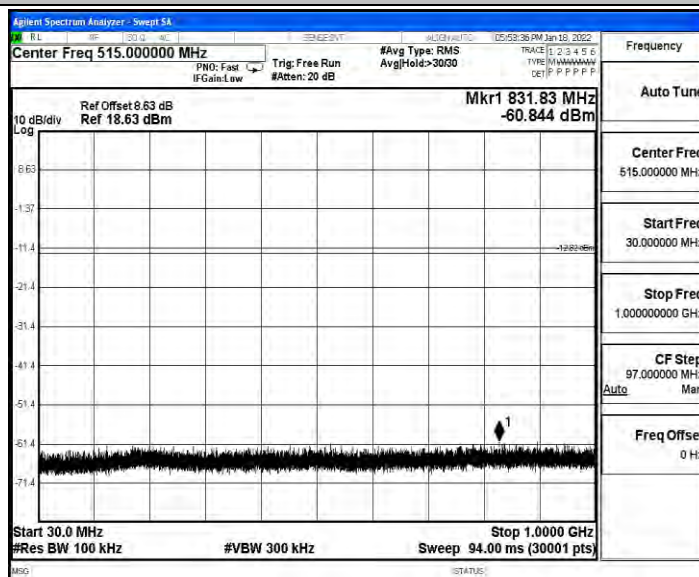
3DH5_Ant1_2441_1000~26500



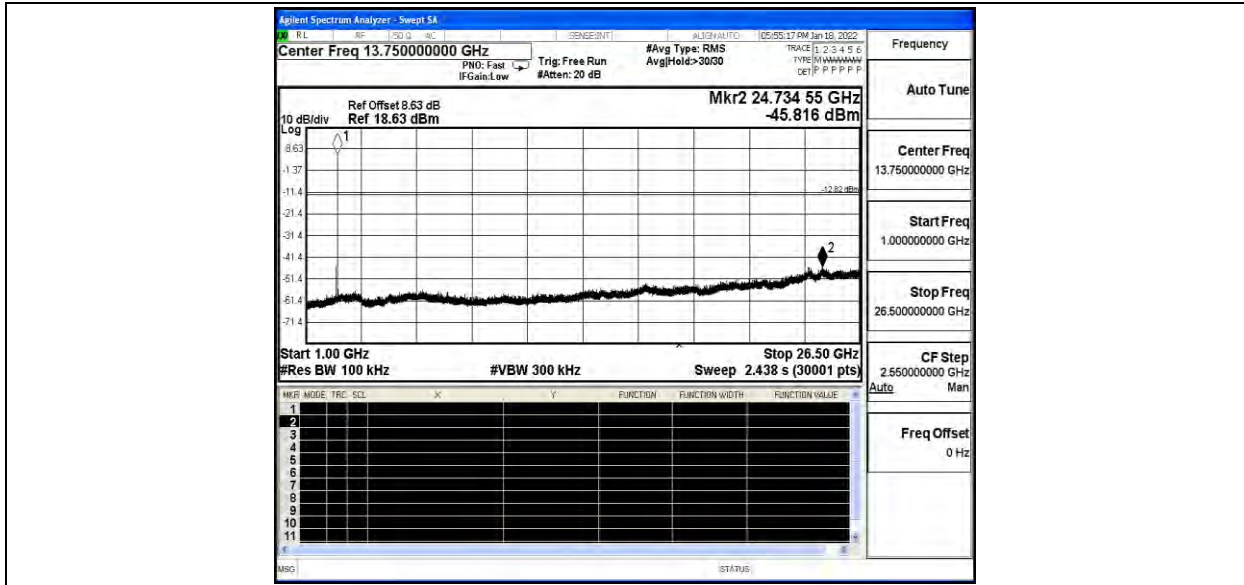
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.8 Emissions in Restricted Bands

Test Result

TestM ode	Anten na	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2385.155	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2390.000	-47.85	≤-41.20	47.35	≤54	PASS
				Peak	2310.000	-38.74	≤-21.20	56.46	≤74	PASS
				Peak	2383.475	-36.8	≤-21.20	58.40	≤74	PASS
				Peak	2390.000	-38.08	≤-21.20	57.12	≤74	PASS
		High	2480	AV	2483.500	-45.82	≤-41.20	49.38	≤54	PASS
				AV	2483.520	-45.82	≤-41.20	49.38	≤54	PASS
				AV	2500.000	-47.38	≤-41.20	47.82	≤54	PASS
				Peak	2483.500	-36.75	≤-21.20	58.45	≤74	PASS
				Peak	2485.280	-35.69	≤-21.20	59.51	≤74	PASS
				Peak	2500.000	-37.84	≤-21.20	57.36	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-38.97	≤-21.20	56.23	≤74	PASS
				Peak	2372.240	-37.34	≤-21.20	57.86	≤74	PASS
				Peak	2390.000	-38.6	≤-21.20	56.60	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-37.95	≤-21.20	57.25	≤74	PASS
				Peak	2486.240	-36.77	≤-21.20	58.43	≤74	PASS
				Peak	2500.000	-37.99	≤-21.20	57.21	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2385.785	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2390.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	2310.000	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2350.715	-36.26	≤-21.20	58.94	≤74	PASS
				Peak	2390.000	-38.34	≤-21.20	56.86	≤74	PASS
		High	2480	AV	2483.500	-45.17	≤-41.20	50.03	≤54	PASS
				AV	2483.520	-45.16	≤-41.20	50.04	≤54	PASS
				AV	2500.000	-47.37	≤-41.20	47.83	≤54	PASS
				Peak	2483.500	-37.3	≤-21.20	57.90	≤74	PASS
				Peak	2484.880	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2500.000	-37.71	≤-21.20	57.49	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.64	≤-21.20	55.56	≤74	PASS
				Peak	2373.605	-37.04	≤-21.20	58.16	≤74	PASS
				Peak	2390.000	-39.25	≤-21.20	55.95	≤74	PASS
		High	Hop_24	Peak	2483.500	-38.01	≤-21.20	57.19	≤74	PASS



			80	Peak	2500.000	-36.61	≤ -21.20	58.59	≤ 74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.42	≤ -41.20	46.78	≤ 54	PASS
				AV	2379.695	-47.71	≤ -41.20	47.49	≤ 54	PASS
				AV	2390.000	-47.91	≤ -41.20	47.29	≤ 54	PASS
				Peak	2310.000	-38.77	≤ -21.20	56.43	≤ 74	PASS
				Peak	2368.460	-36.48	≤ -21.20	58.72	≤ 74	PASS
				Peak	2390.000	-38.33	≤ -21.20	56.87	≤ 74	PASS
		High	2480	AV	2483.500	-45.1	≤ -41.20	50.10	≤ 54	PASS
				AV	2483.520	-45.1	≤ -41.20	50.10	≤ 54	PASS
				AV	2500.000	-47.39	≤ -41.20	47.81	≤ 54	PASS
				Peak	2483.500	-37.07	≤ -21.20	58.13	≤ 74	PASS
				Peak	2484.880	-34.87	≤ -21.20	60.33	≤ 74	PASS
				Peak	2500.000	-38.26	≤ -21.20	56.94	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.4	≤ -21.20	55.80	≤ 74	PASS
				Peak	2380.535	-36.72	≤ -21.20	58.48	≤ 74	PASS
				Peak	2390.000	-38.58	≤ -21.20	56.62	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-37.96	≤ -21.20	57.24	≤ 74	PASS
				Peak	2486.240	-36.46	≤ -21.20	58.74	≤ 74	PASS
				Peak	2500.000	-37.81	≤ -21.20	57.39	≤ 74	PASS

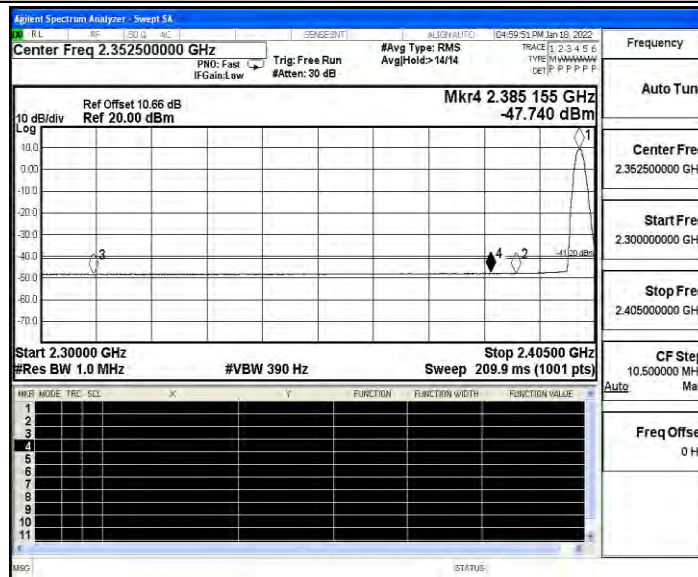
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

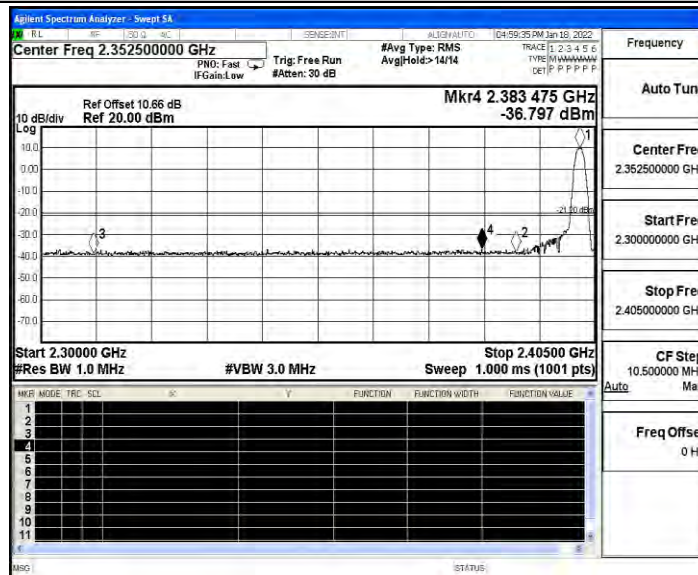


Test Graphs

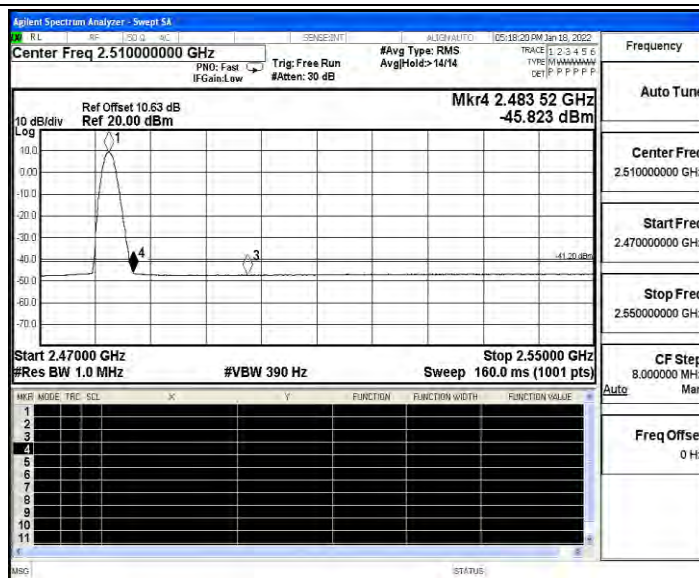
DH5_Ant1_Low_2402_AV



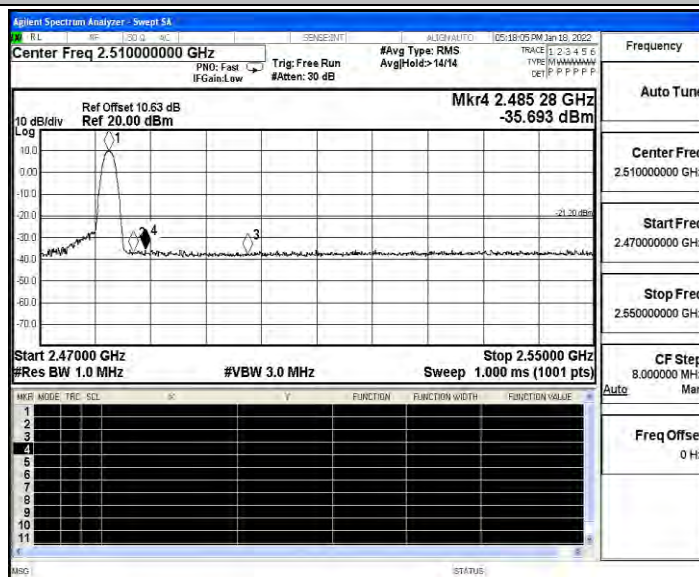
DH5_Ant1_Low_2402_Peak



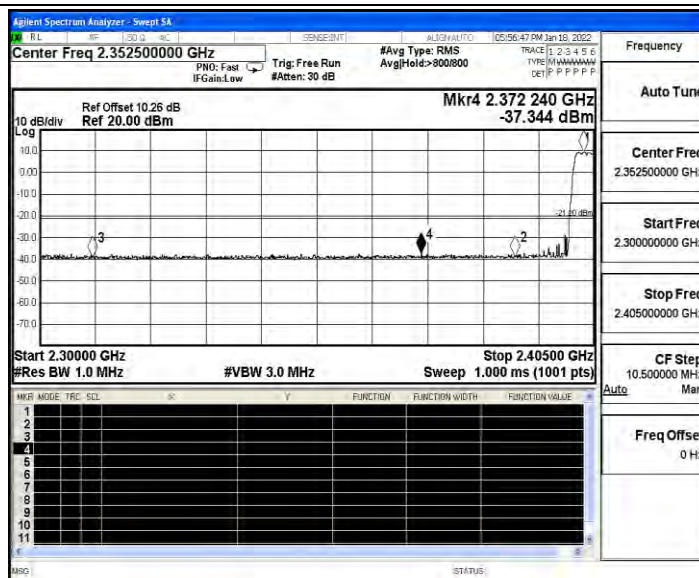
DH5_Ant1_High_2480_AV



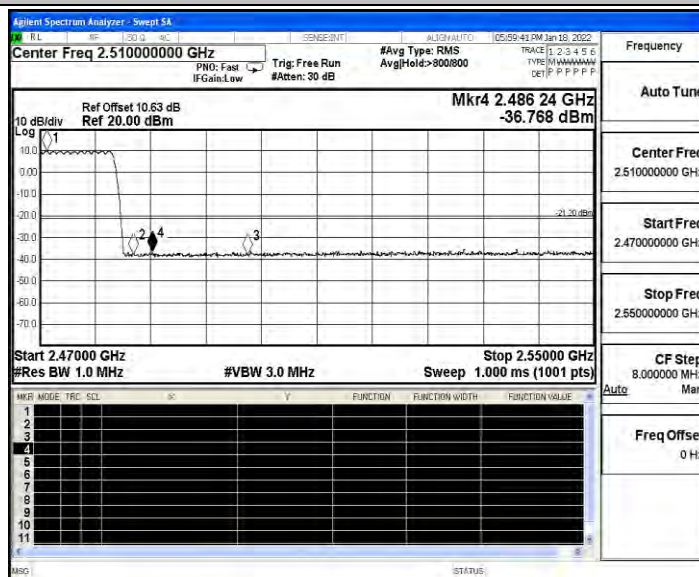
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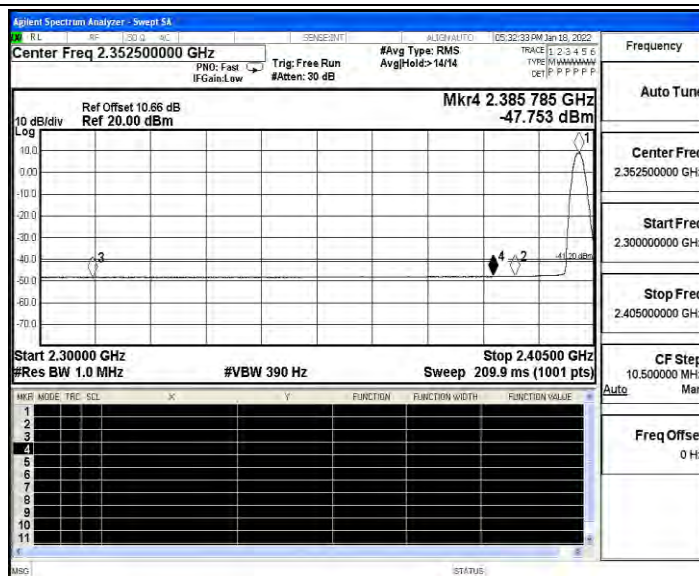
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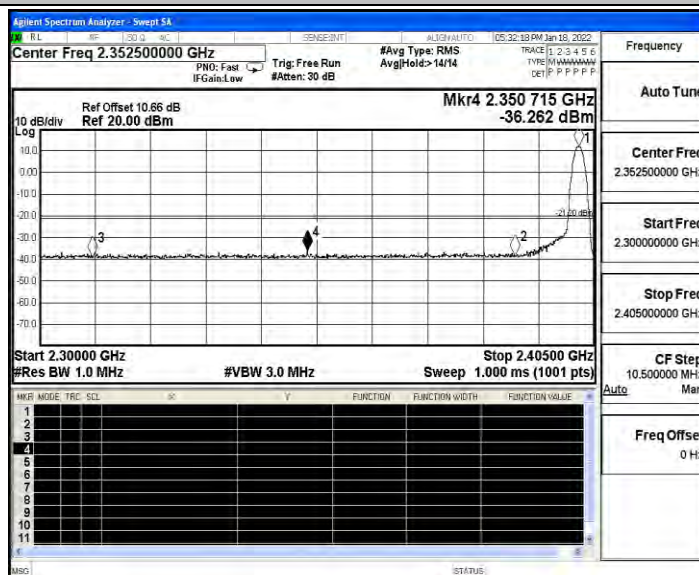
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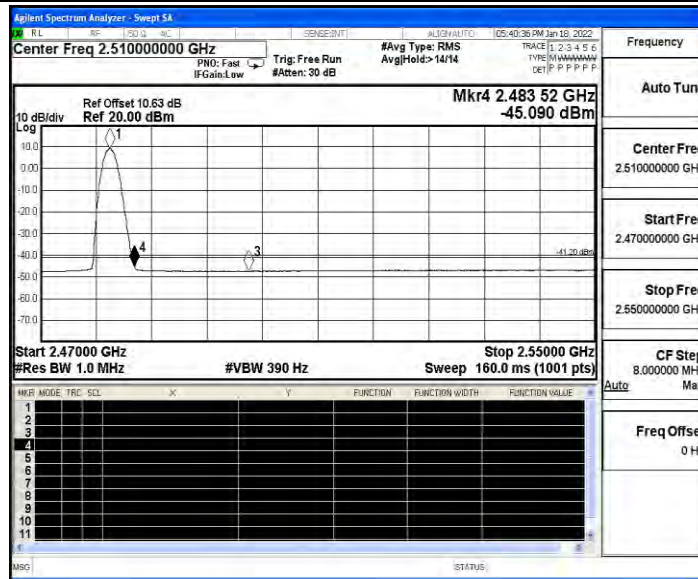
2DH5_Ant1_Low_2402_AV



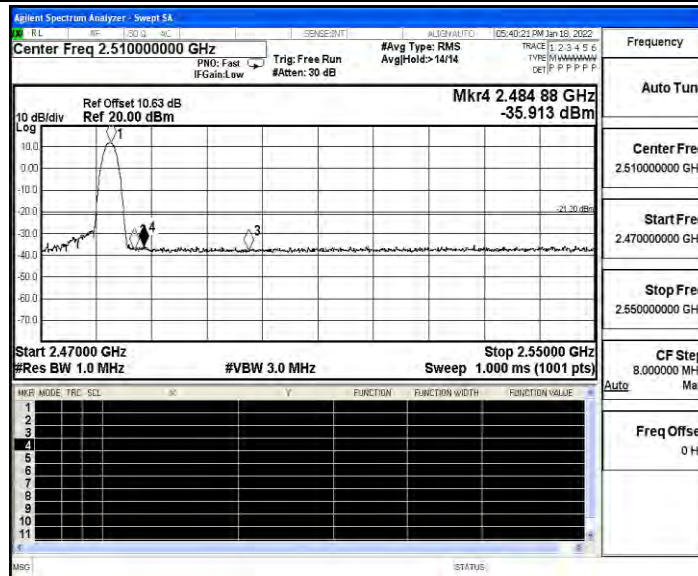
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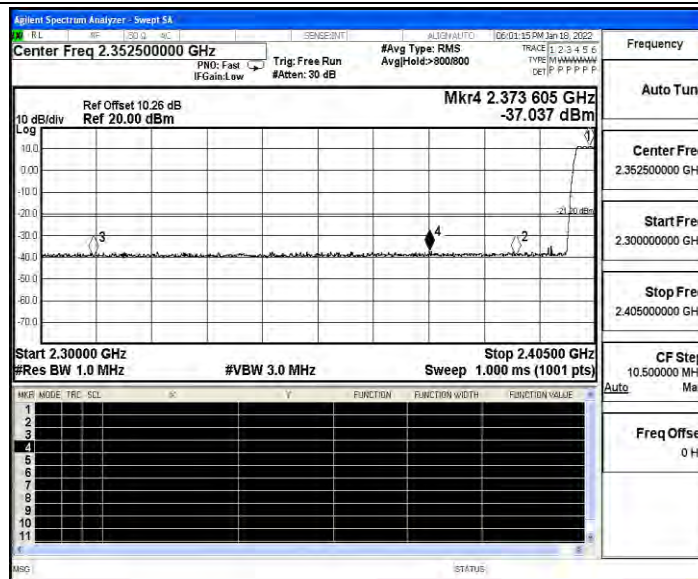
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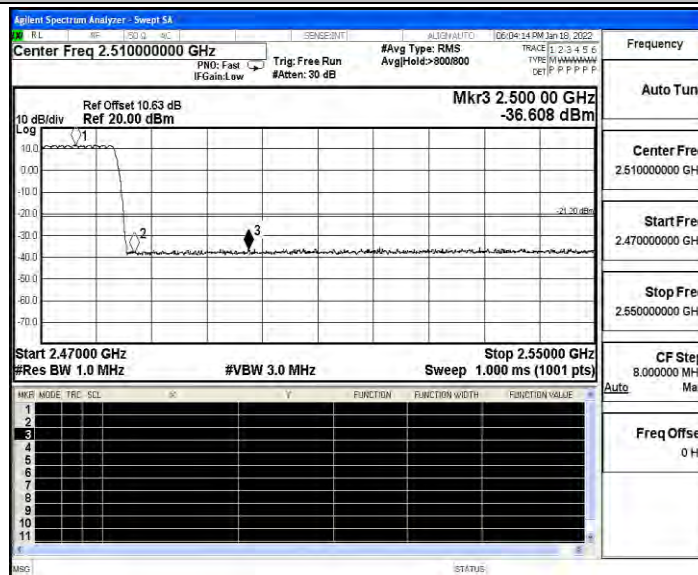
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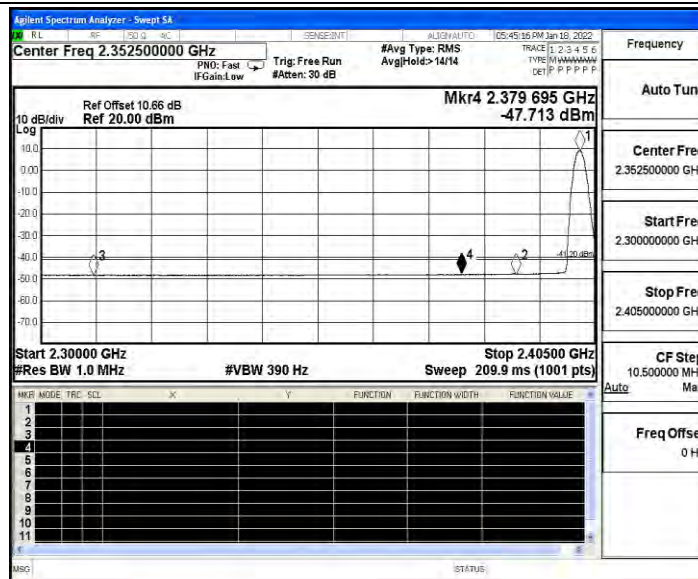
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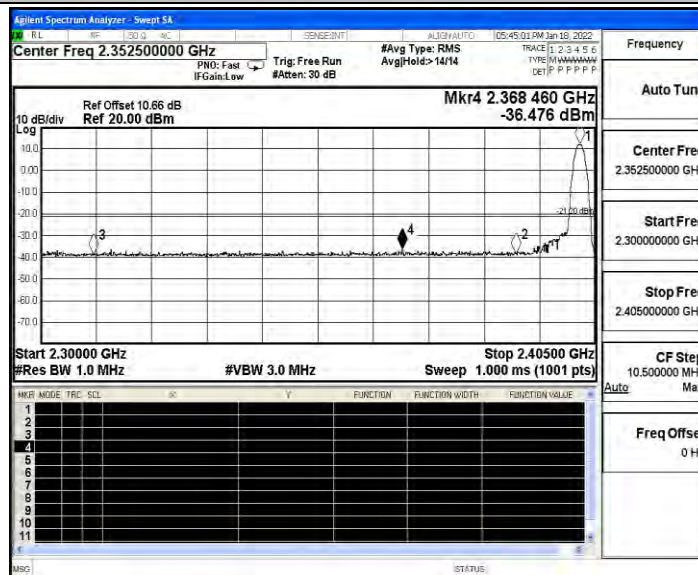
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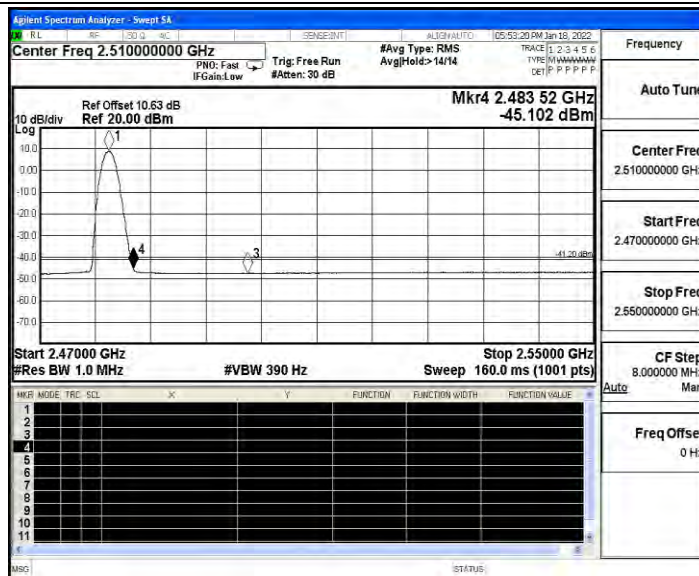
3DH5_Ant1_Low_2402_AV



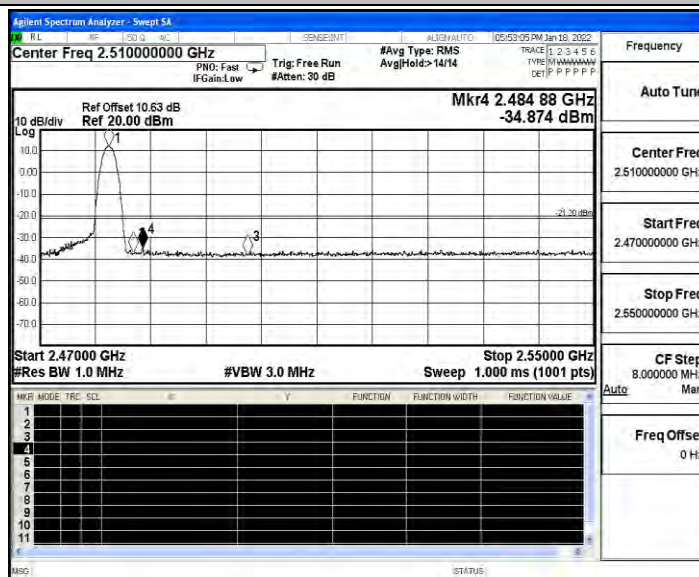
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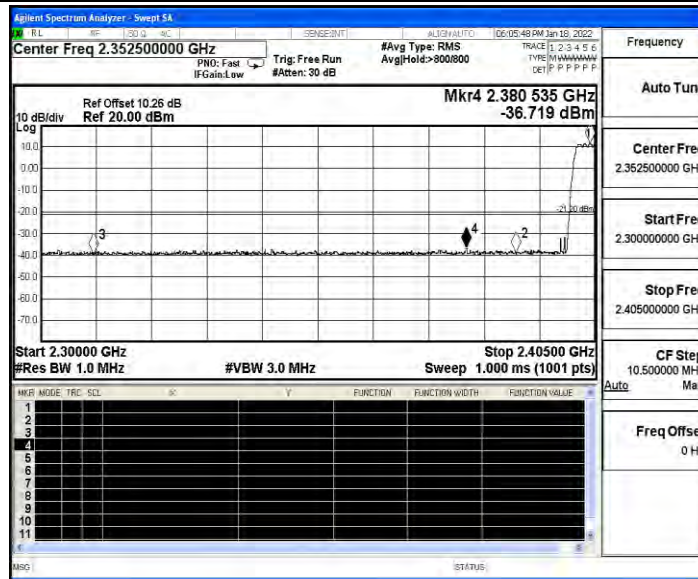
3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

