



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: True-wireless Earbuds

Test Model: E12

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>mening sou</i> Mening Sou
Supervised by:	<i>Ling. Zhu</i> Ling Zhu



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.466	2402.501	---
		2441	1.020	2440.463	2441.483	---
		2480	1.032	2479.457	2480.489	---
2DH5	Ant1	2402	1.344	2401.322	2402.666	---
		2441	1.293	2440.355	2441.648	---
		2480	1.290	2479.355	2480.645	---
3DH5	Ant1	2402	1.341	2401.322	2402.663	---
		2441	1.302	2440.340	2441.642	---
		2480	1.326	2479.325	2480.651	---



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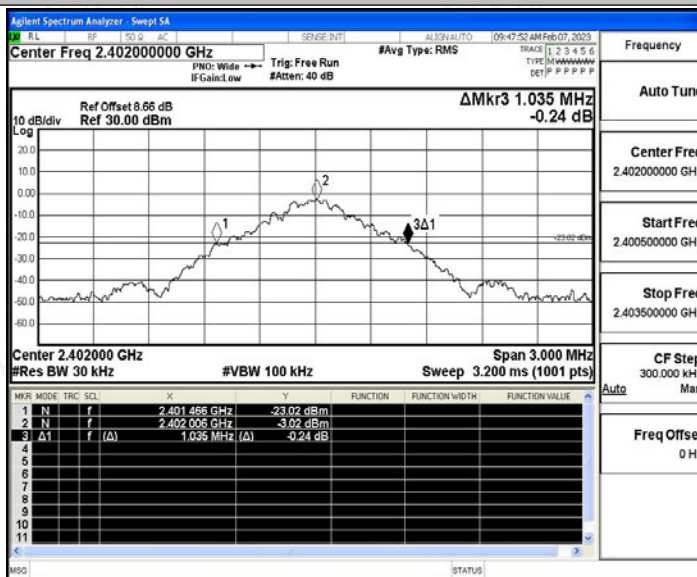
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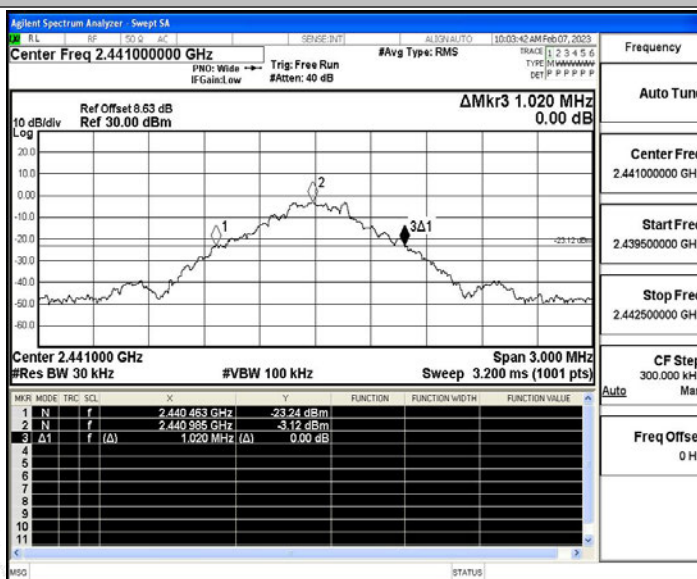


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

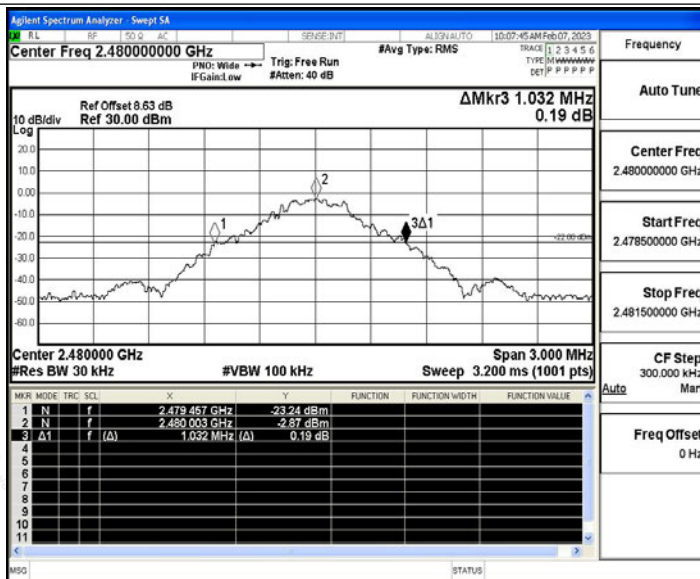


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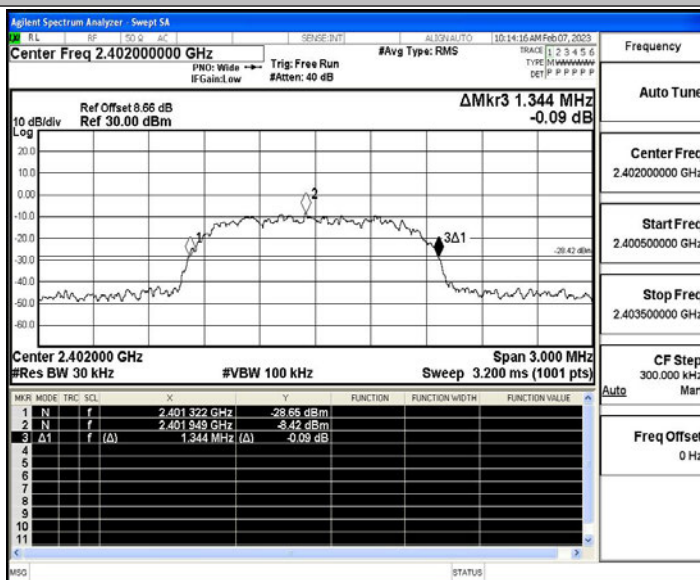
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2DH5_Ant1_2402



2DH5_Ant1_2441

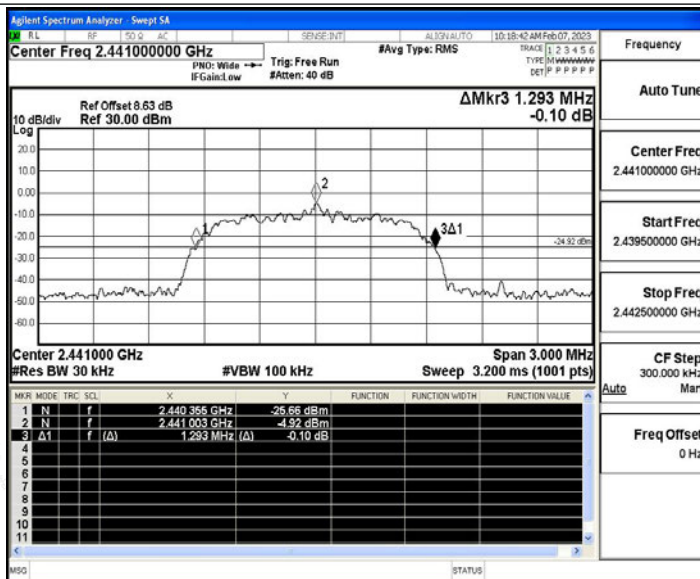


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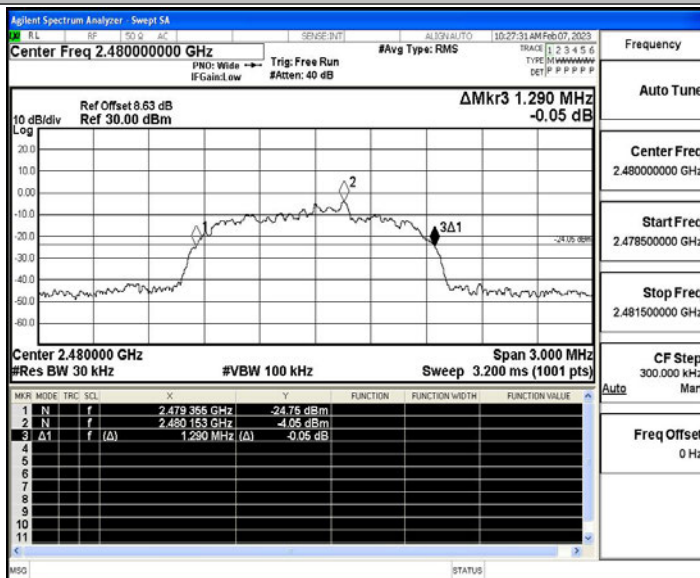
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2DH5_Ant1_2480



3DH5_Ant1_2402

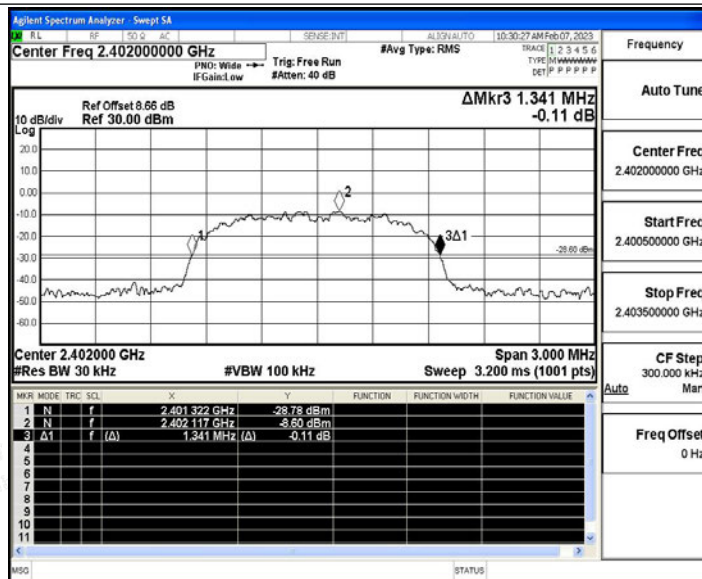


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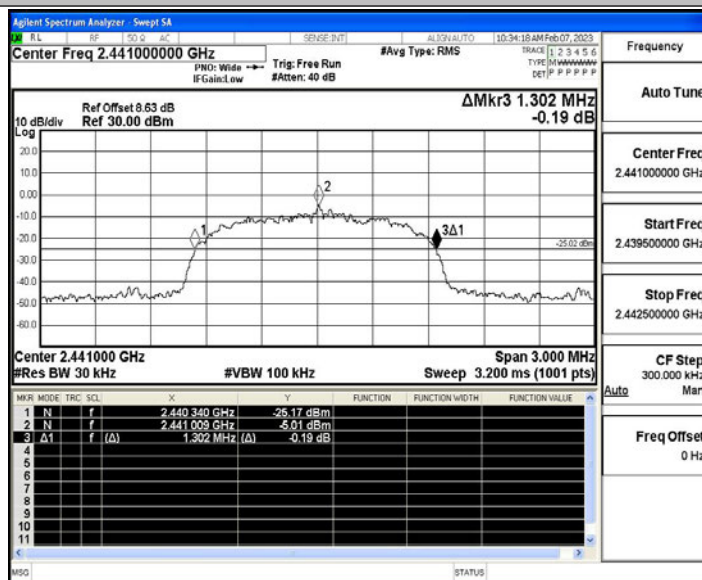
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3DH5_Ant1_2441



3DH5_Ant1_2480

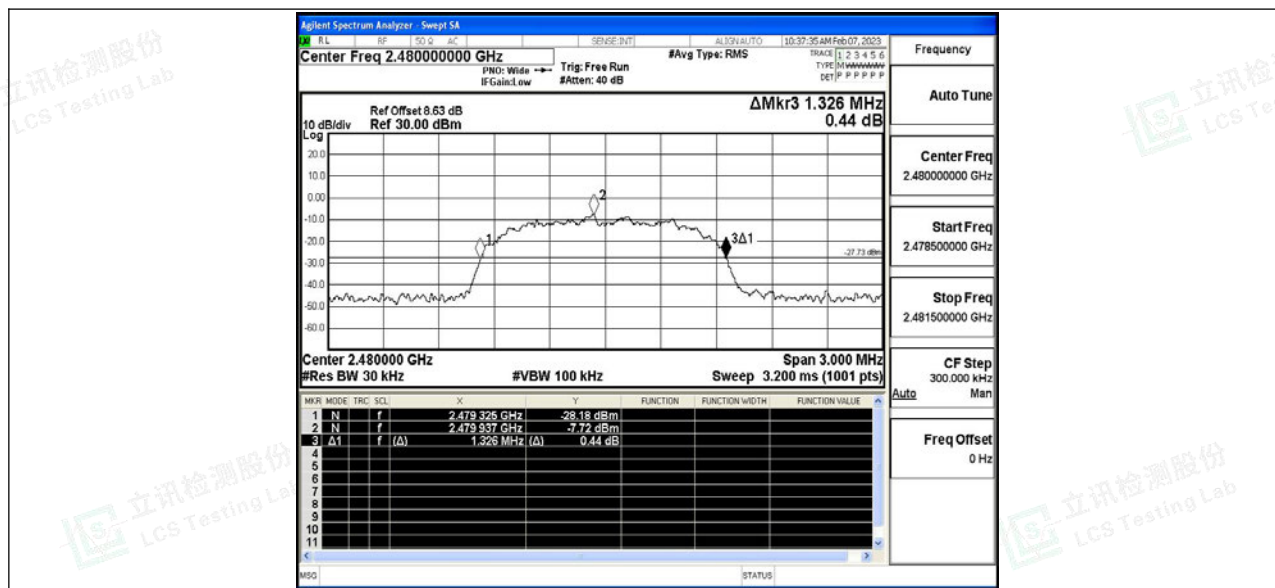


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.13	≤20.97	PASS
		2441	0.2	≤20.97	PASS
		2480	0.17	≤20.97	PASS
2DH5	Ant1	2402	0	≤20.97	PASS
		2441	0.07	≤20.97	PASS
		2480	0.01	≤20.97	PASS
3DH5	Ant1	2402	0.19	≤20.97	PASS
		2441	-0.02	≤20.97	PASS
		2480	0.03	≤20.97	PASS



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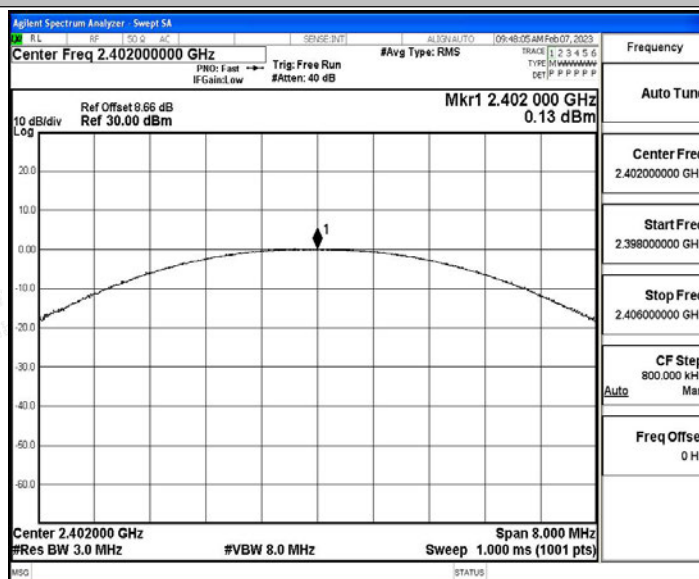
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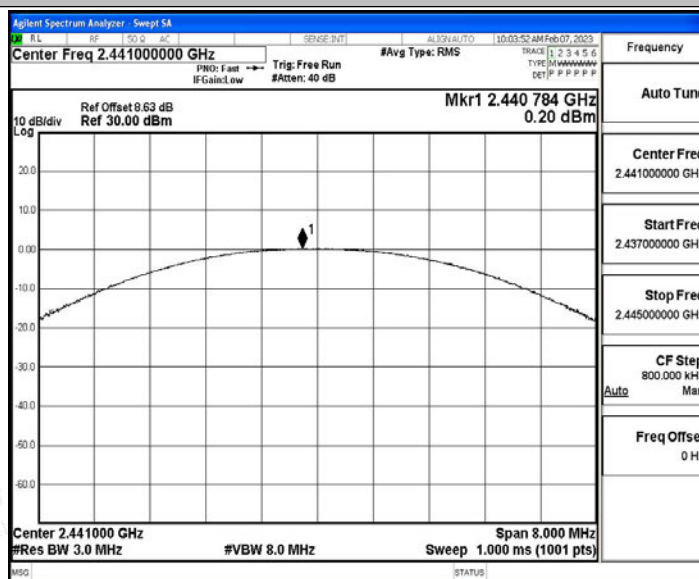


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

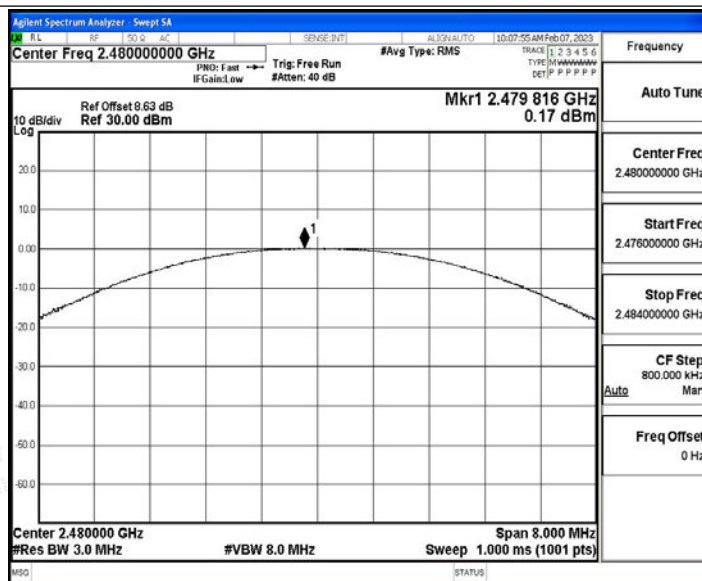


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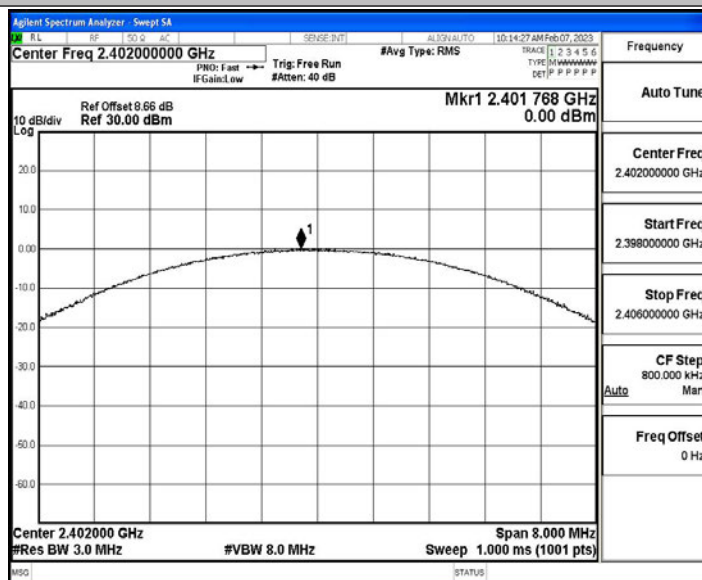
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2DH5_Ant1_2402



2DH5_Ant1_2441

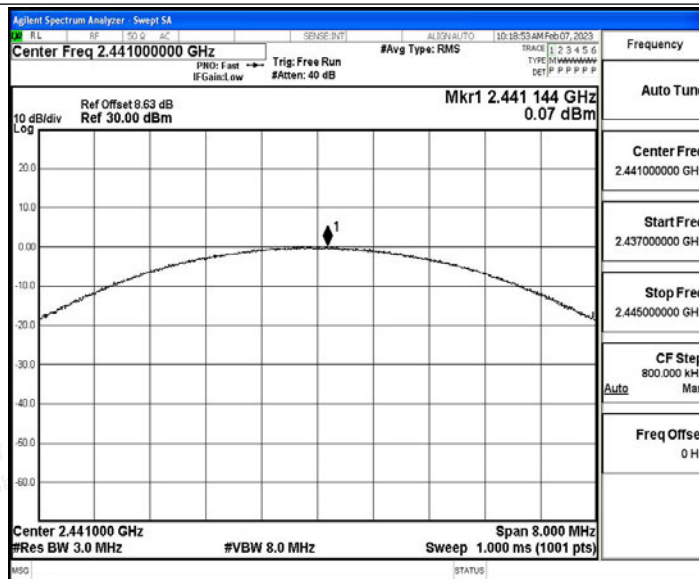


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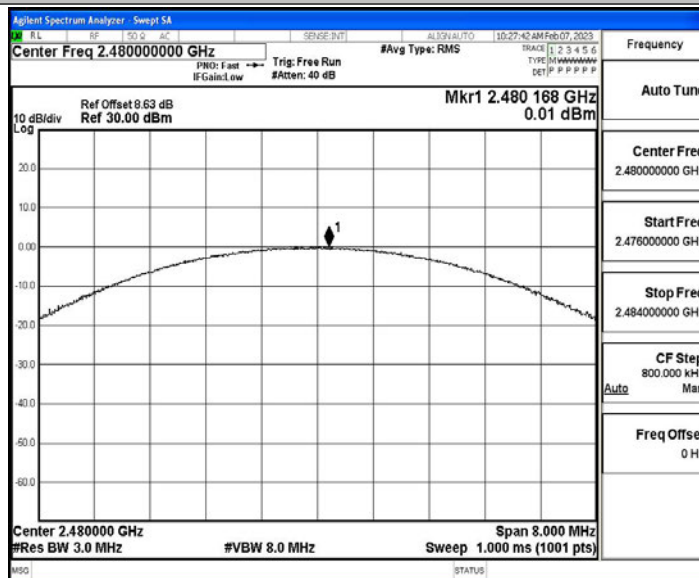
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2DH5_Ant1_2480



3DH5_Ant1_2402

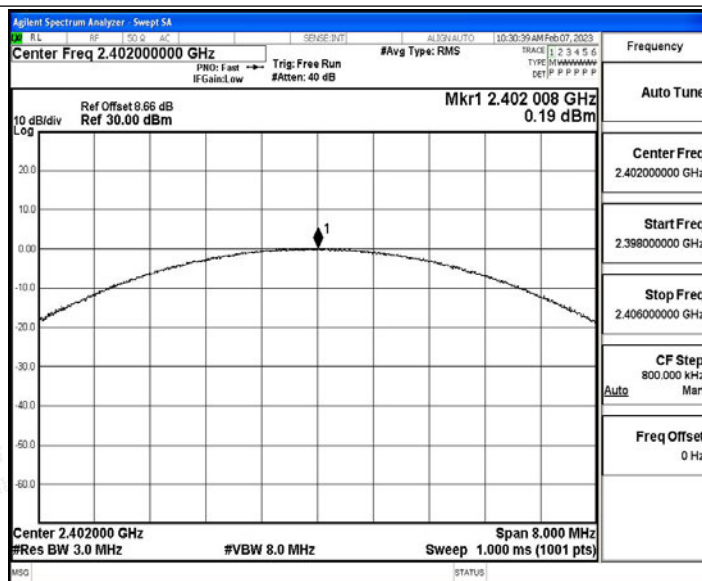


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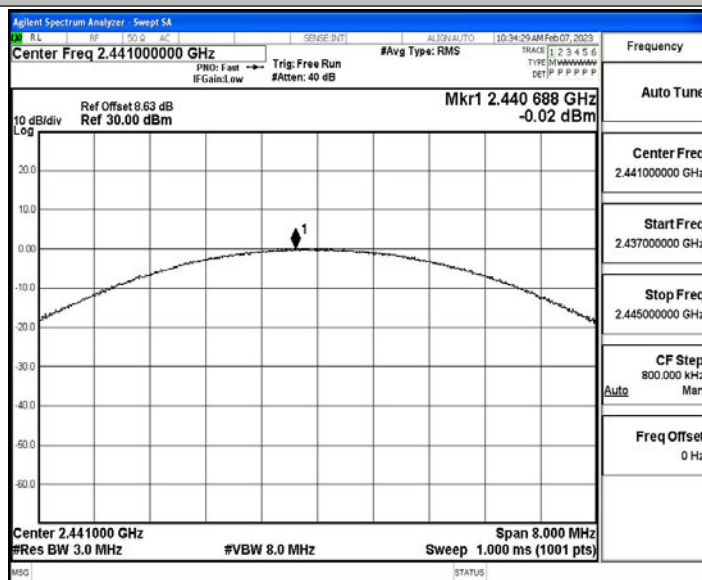
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3DH5_Ant1_2441



3DH5_Ant1_2480

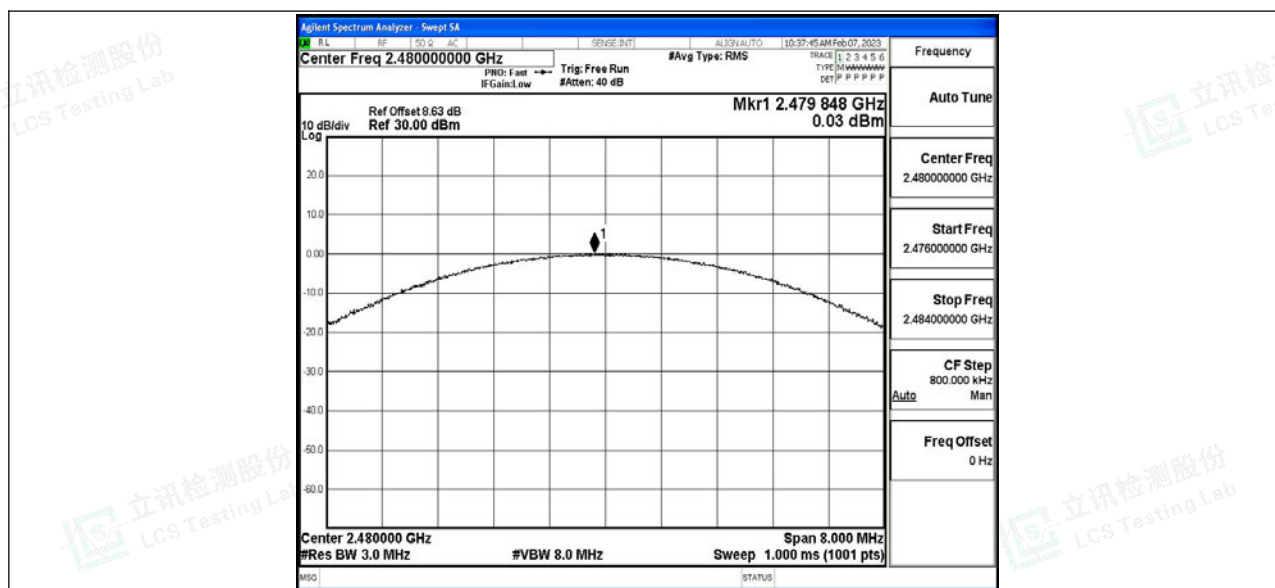


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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.18	≥ 0.690	PASS
2DH5	Ant1	Hop	1.126	≥ 0.896	PASS
3DH5	Ant1	Hop	1.134	≥ 0.894	PASS



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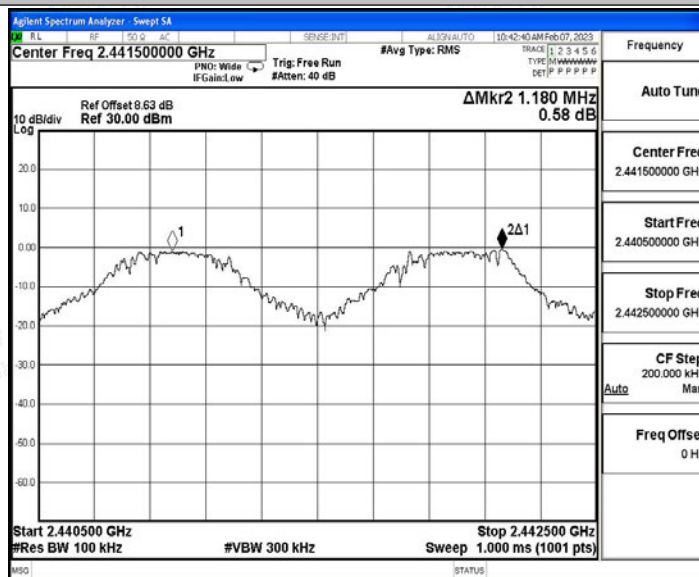
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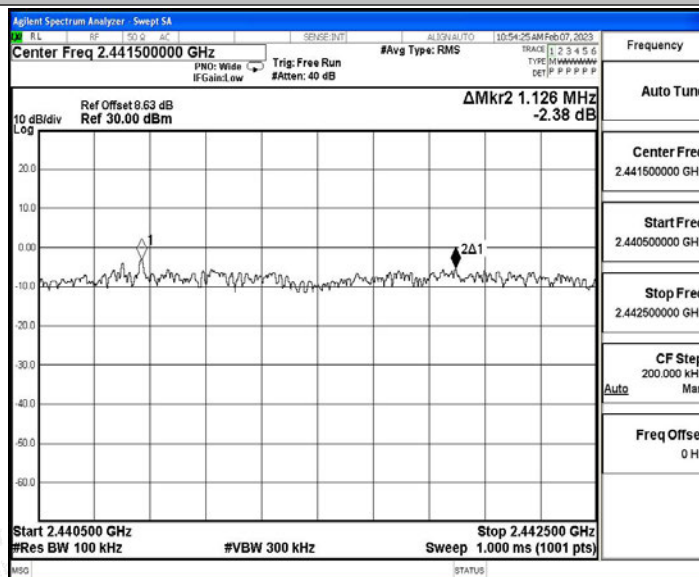


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

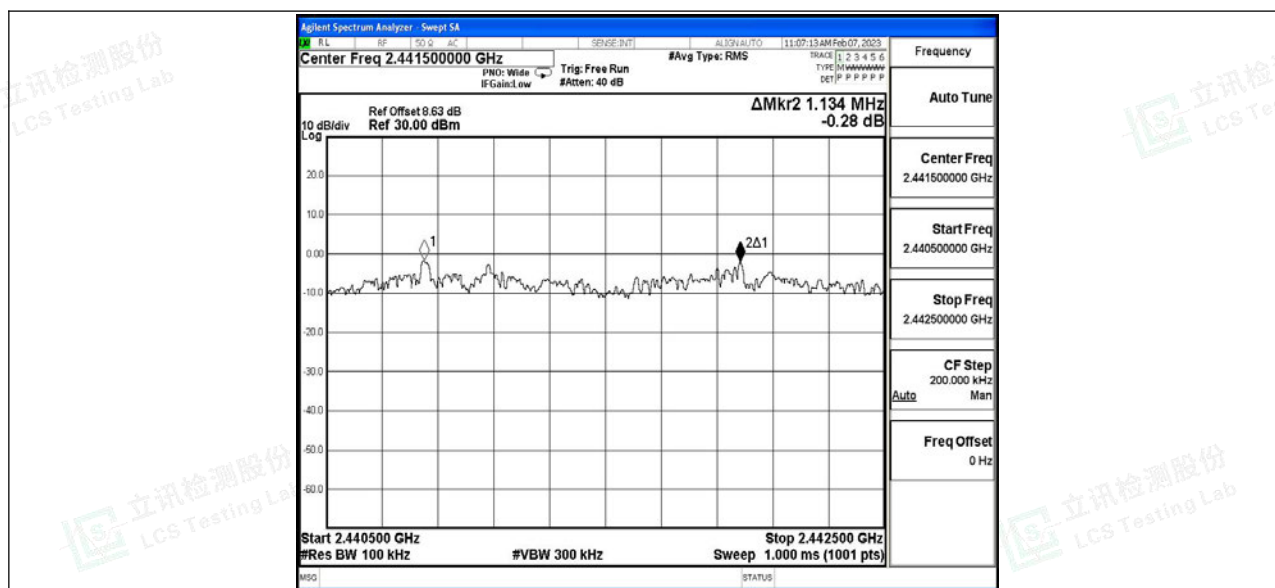


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A.4 Time of occupancy

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	2.89	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



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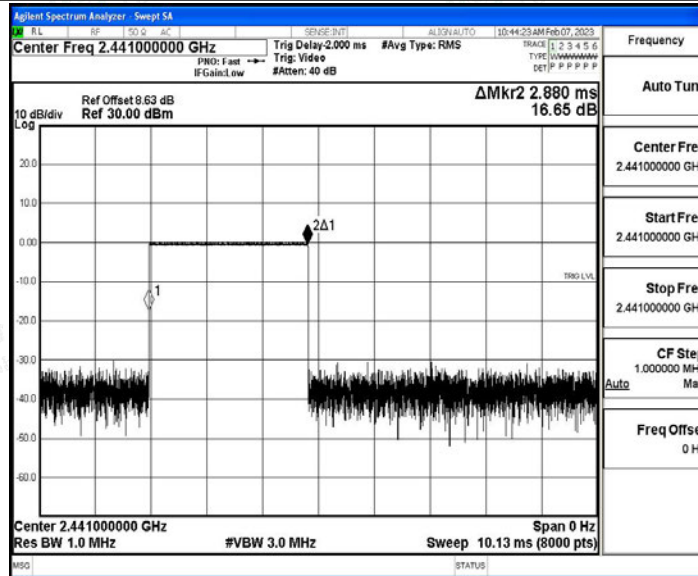
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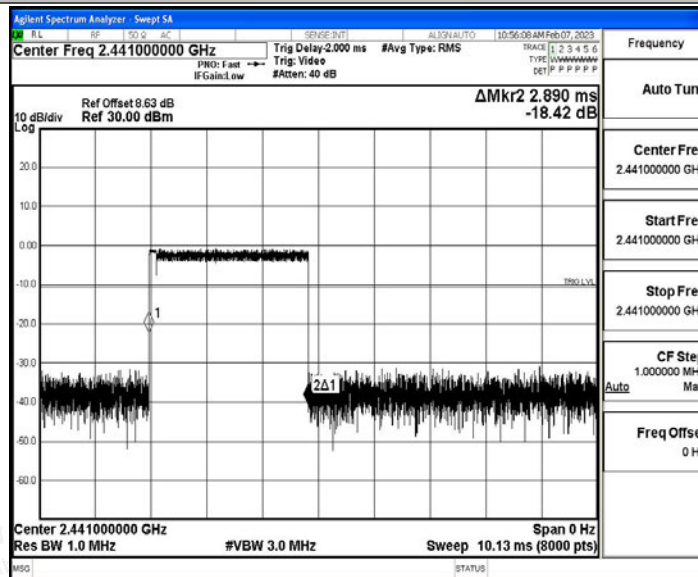


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

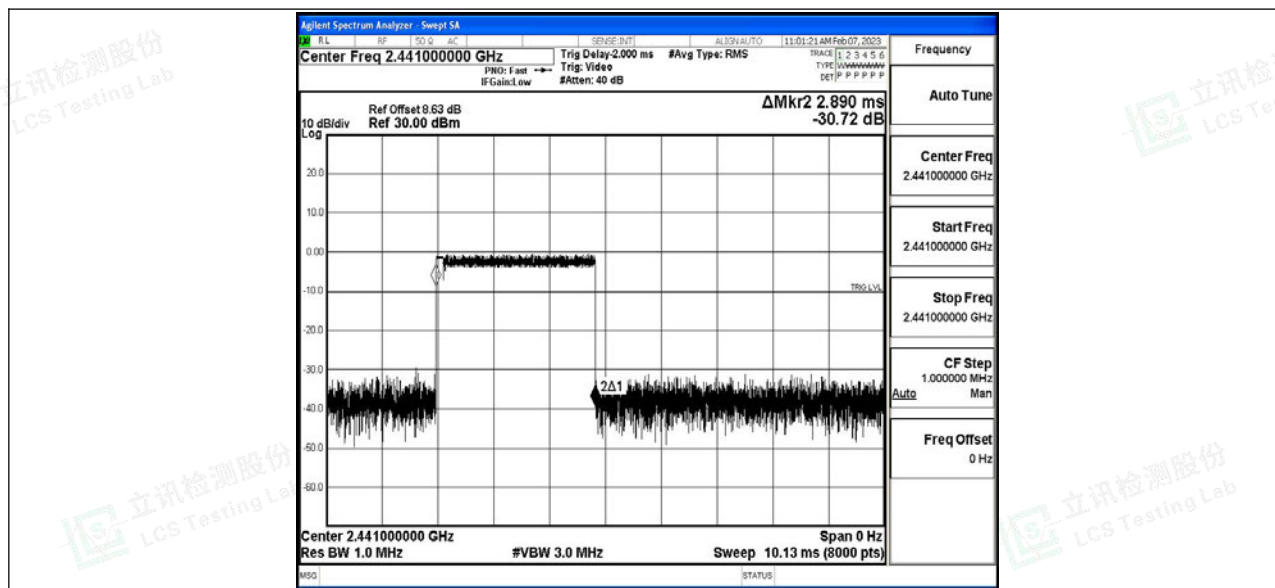


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A.5 Number of hopping channels

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



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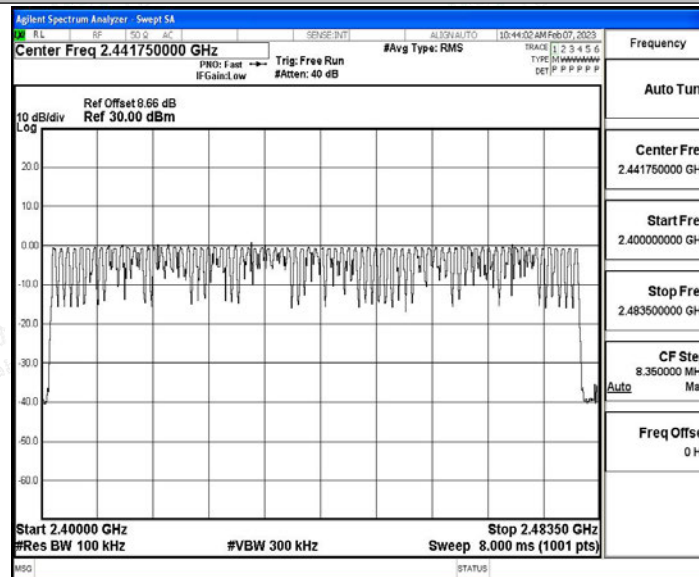
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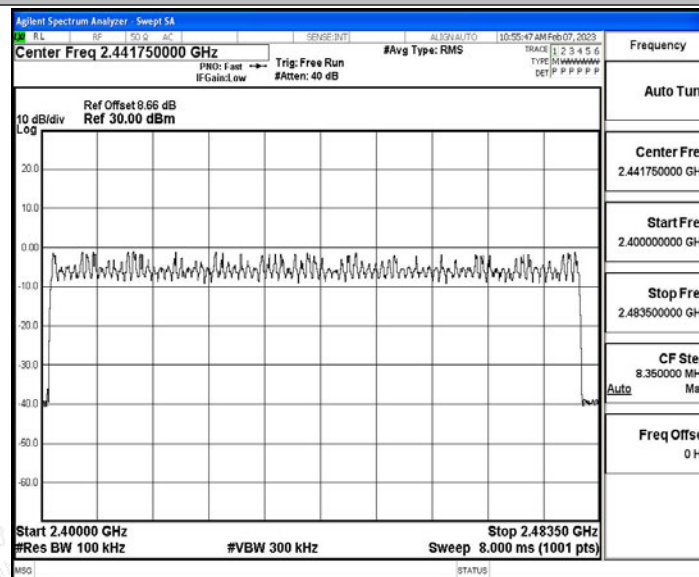


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

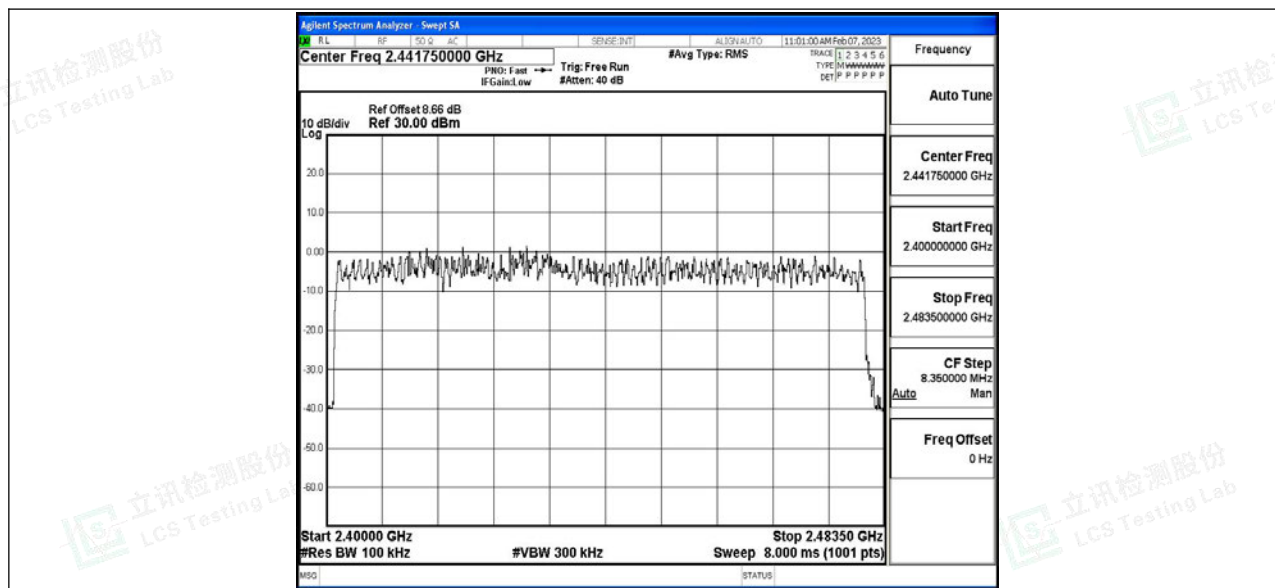


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.27	-58.79	≤ -21.27	PASS
		High	2480	-0.70	-58.39	≤ -20.7	PASS
		Low	Hop_2402	-0.81	-57.61	≤ -20.81	PASS
		High	Hop_2480	-0.30	-57.71	≤ -20.3	PASS
2DH5	Ant1	Low	2402	-2.99	-51.85	≤ -22.99	PASS
		High	2480	-5.50	-58.94	≤ -25.5	PASS
		Low	Hop_2402	-5.11	-58.53	≤ -25.11	PASS
		High	Hop_2480	-1.70	-57.55	≤ -21.7	PASS
3DH5	Ant1	Low	2402	-4.98	-56.69	≤ -24.98	PASS
		High	2480	-6.22	-57.43	≤ -26.22	PASS
		Low	Hop_2402	-1.78	-58.65	≤ -21.78	PASS
		High	Hop_2480	-3.49	-57.22	≤ -23.49	PASS



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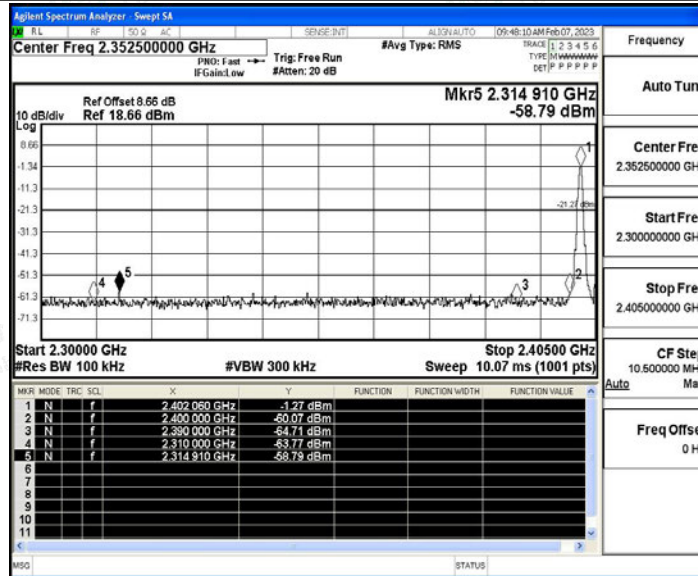
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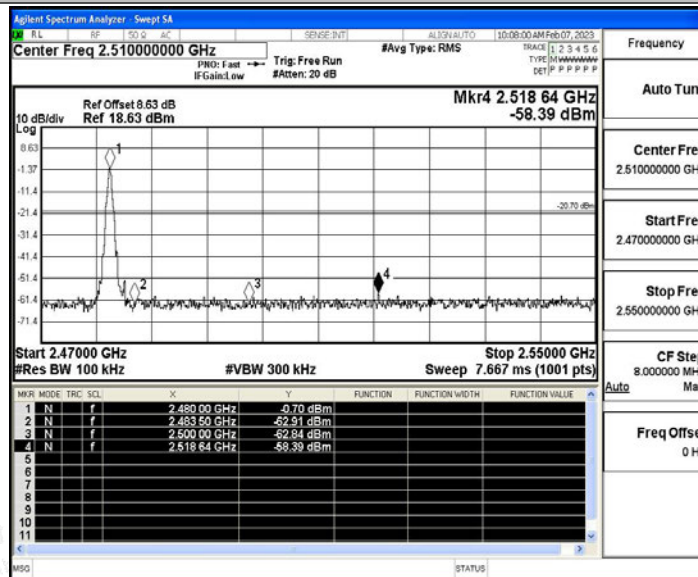


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

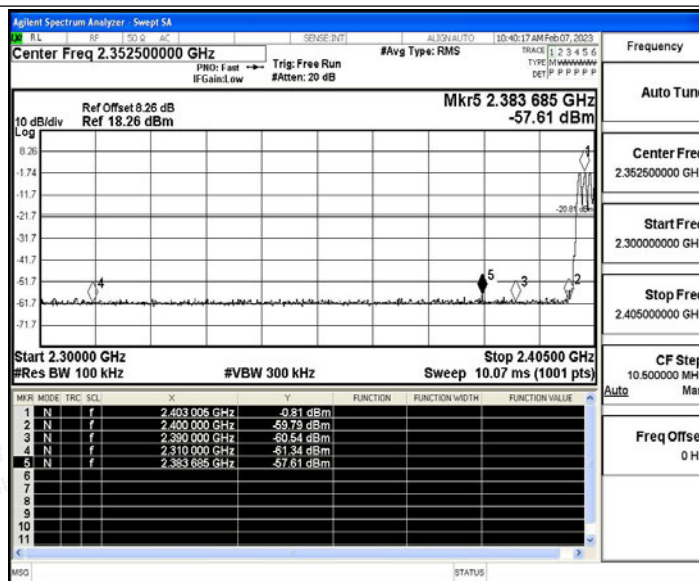


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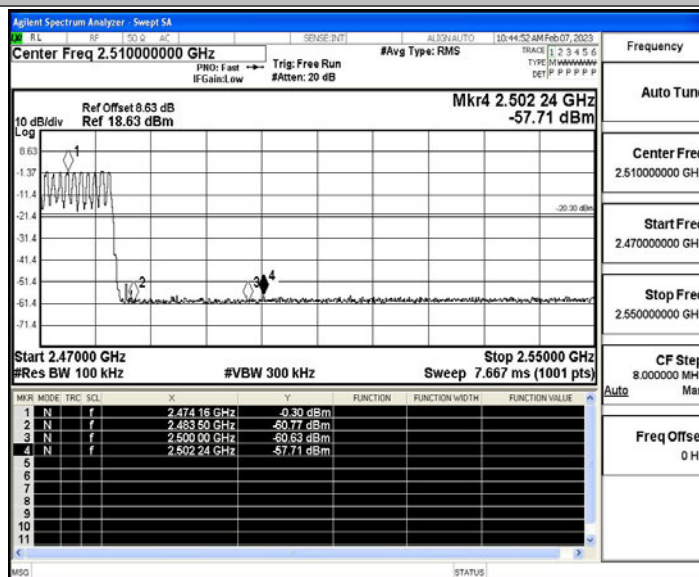
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

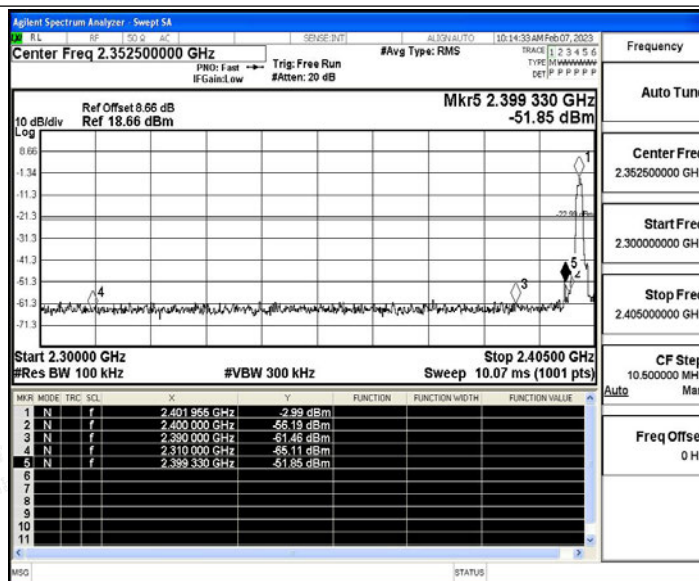


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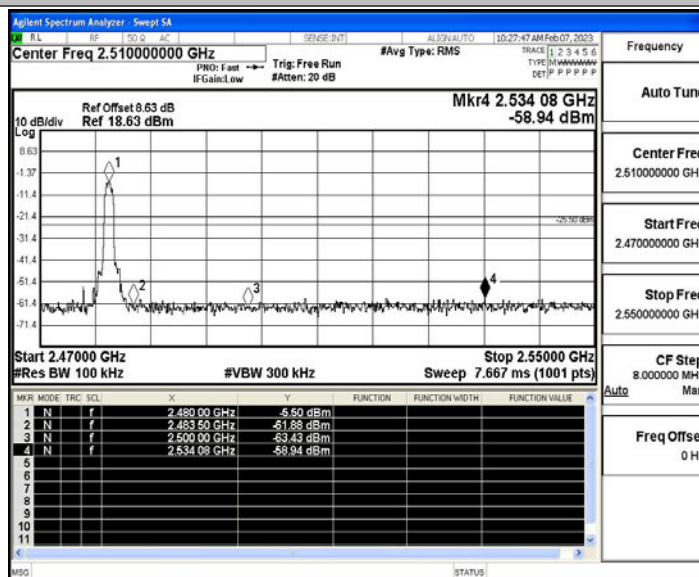
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

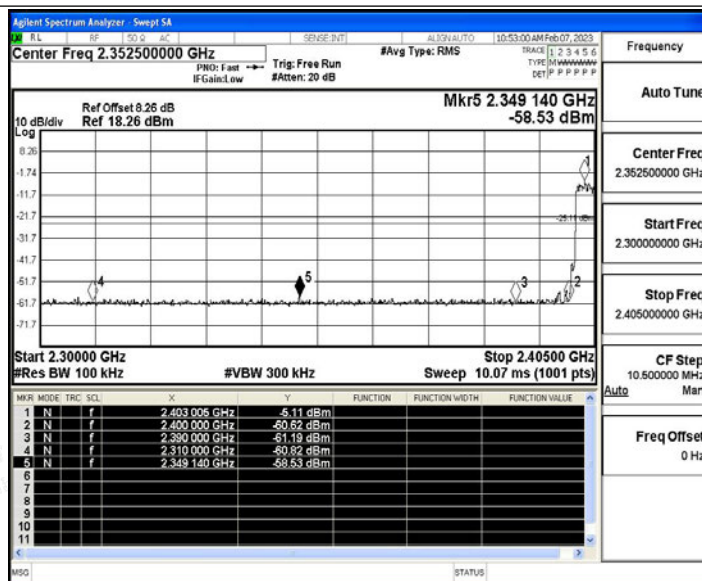


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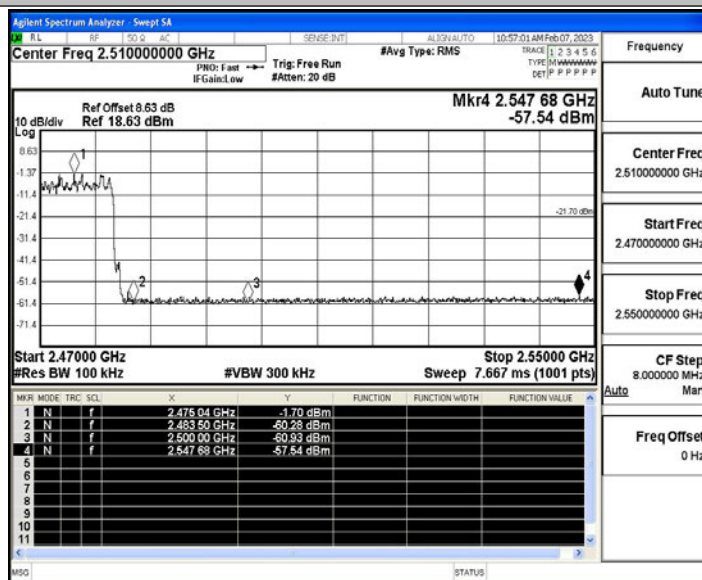
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

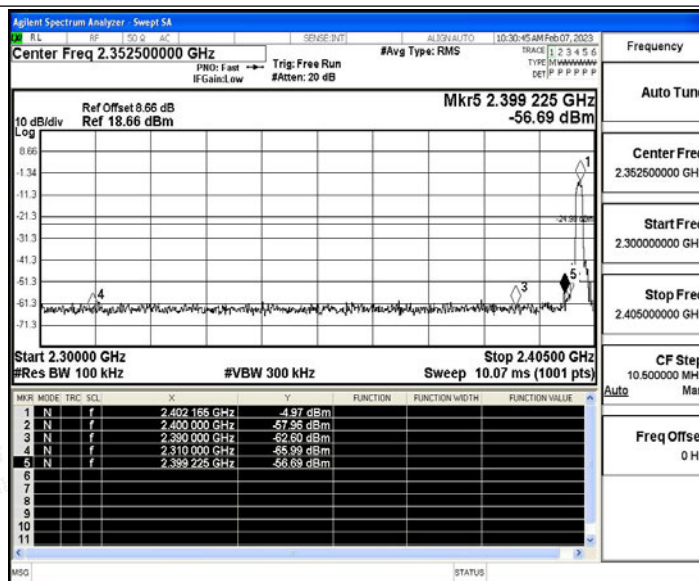


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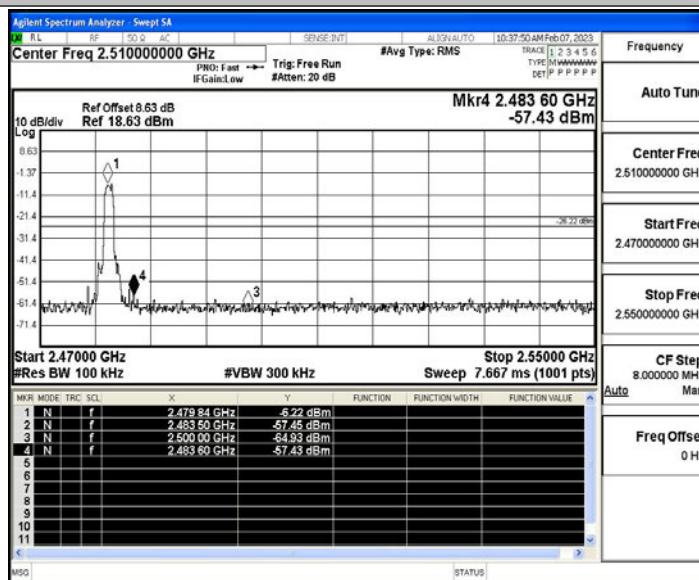
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

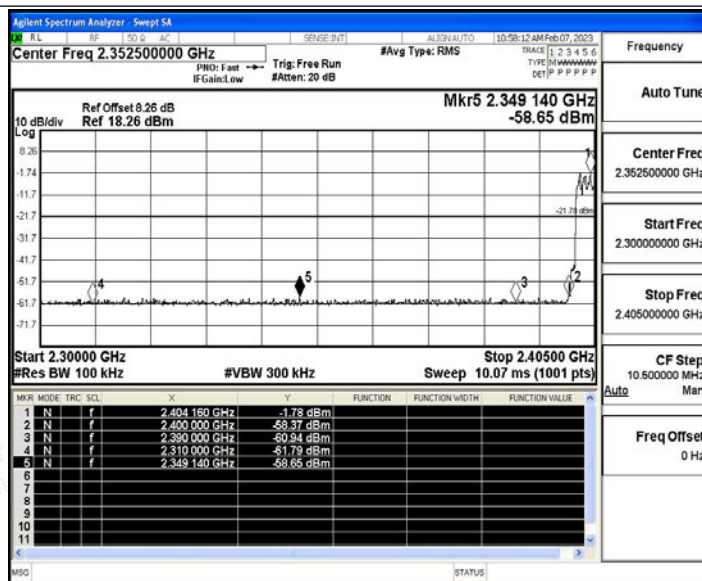


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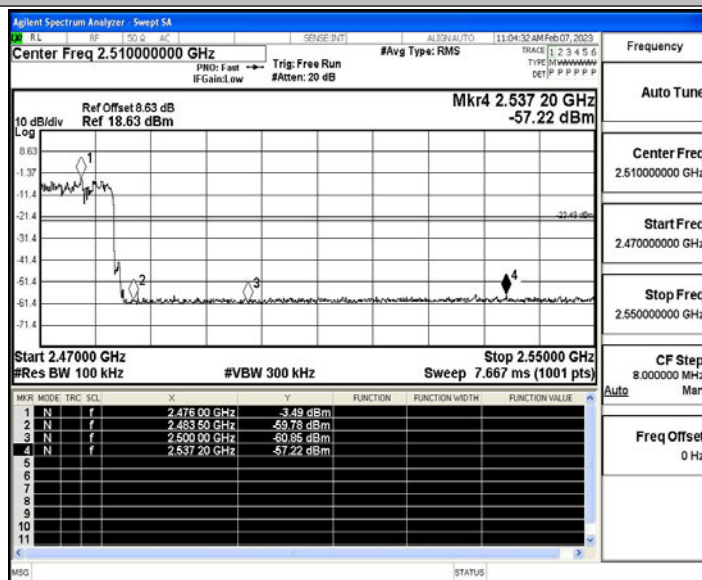
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-59.8	≤ -21.3	PASS
			1000~26500	-1.30	-46.22	≤ -21.3	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-60.68	≤ -20.9	PASS
			1000~26500	-0.90	-44.35	≤ -20.9	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-61.04	≤ -21.16	PASS
			1000~26500	-1.16	-46.25	≤ -21.16	PASS
2DH5	Ant1	2402	Reference	-5.48	-5.48	---	PASS
			30~1000	-5.48	-60.71	≤ -25.48	PASS
			1000~26500	-5.48	-45.93	≤ -25.48	PASS
		2441	Reference	-2.26	-2.26	---	PASS
			30~1000	-2.26	-47.65	≤ -22.26	PASS
			1000~26500	-2.26	-46.02	≤ -22.26	PASS
		2480	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-60.5	≤ -22.73	PASS
			1000~26500	-2.73	-46.33	≤ -22.73	PASS
3DH5	Ant1	2402	Reference	-2.93	-2.93	---	PASS
			30~1000	-2.93	-60	≤ -22.93	PASS
			1000~26500	-2.77	-45.62	≤ -22.77	PASS
		2441	Reference	-2.48	-2.48	---	PASS
			30~1000	-2.48	-61.09	≤ -22.48	PASS
			1000~26500	-2.48	-45.44	≤ -22.48	PASS
		2480	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-43.72	≤ -25.02	PASS
			1000~26500	-5.02	-45.96	≤ -25.02	PASS



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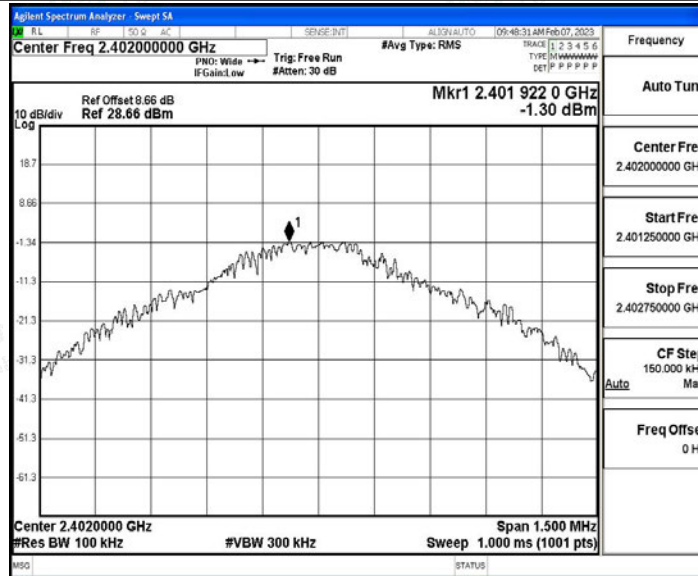
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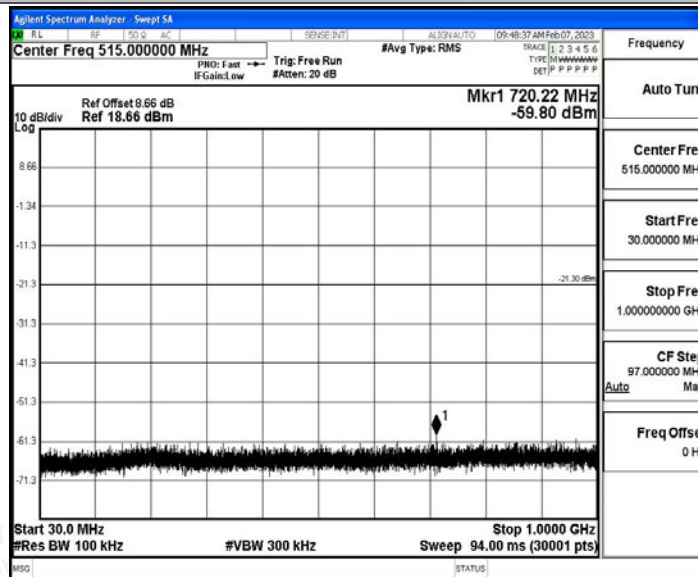


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

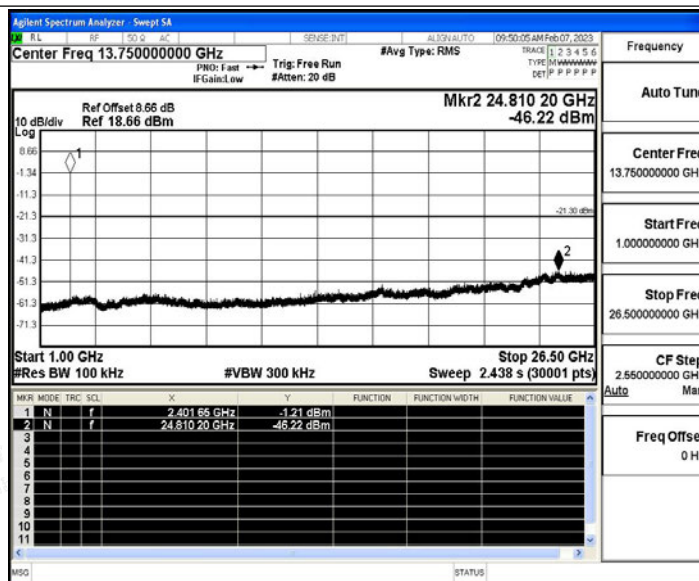


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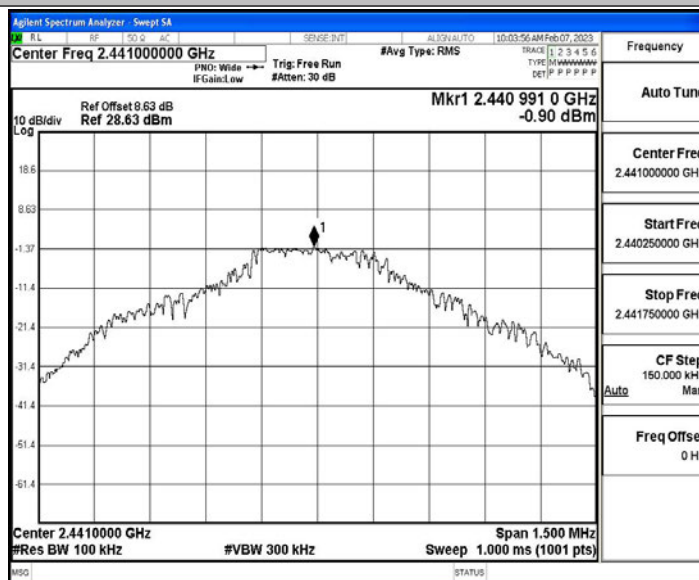
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

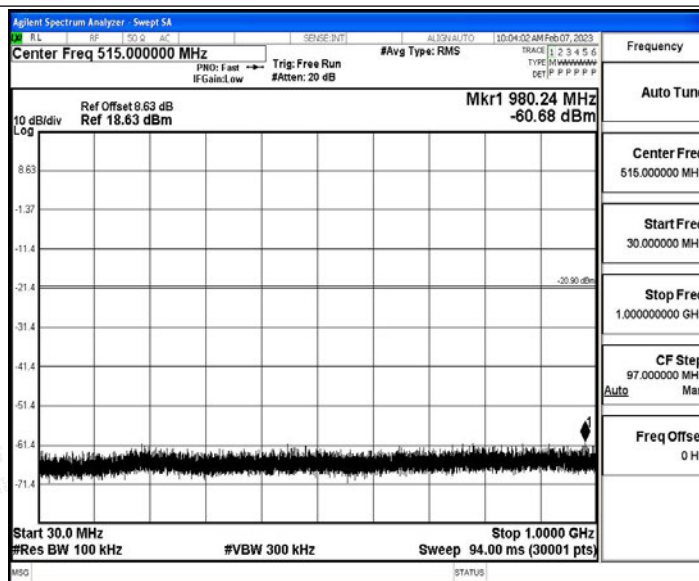


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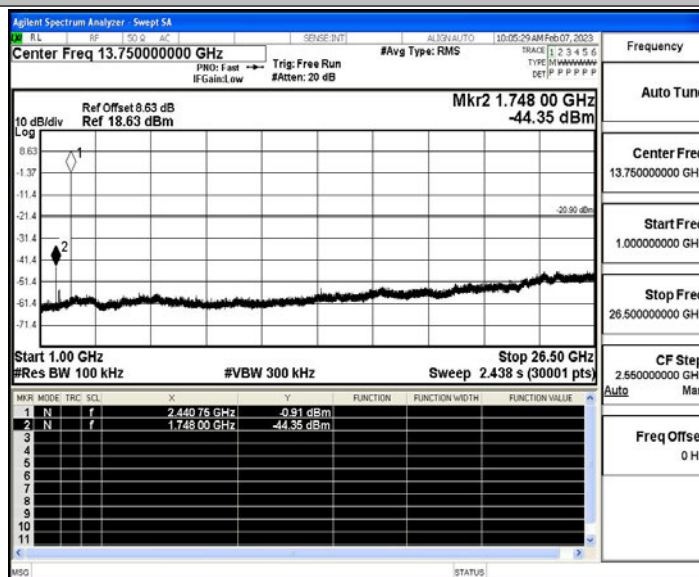
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

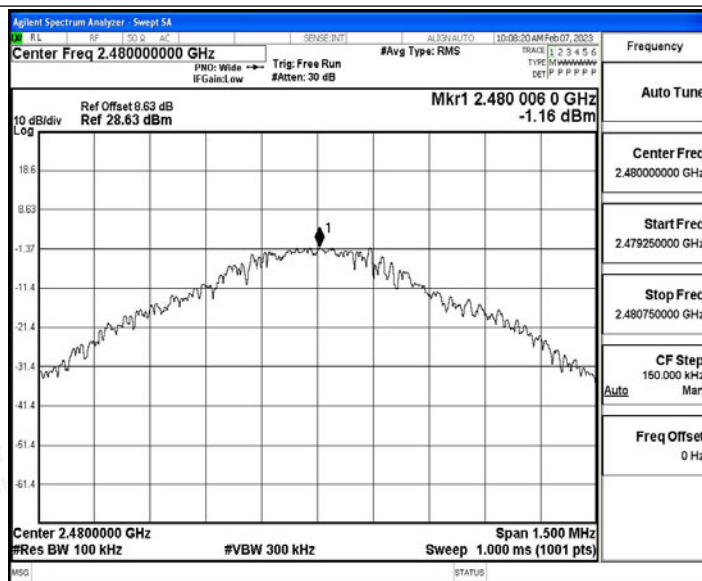


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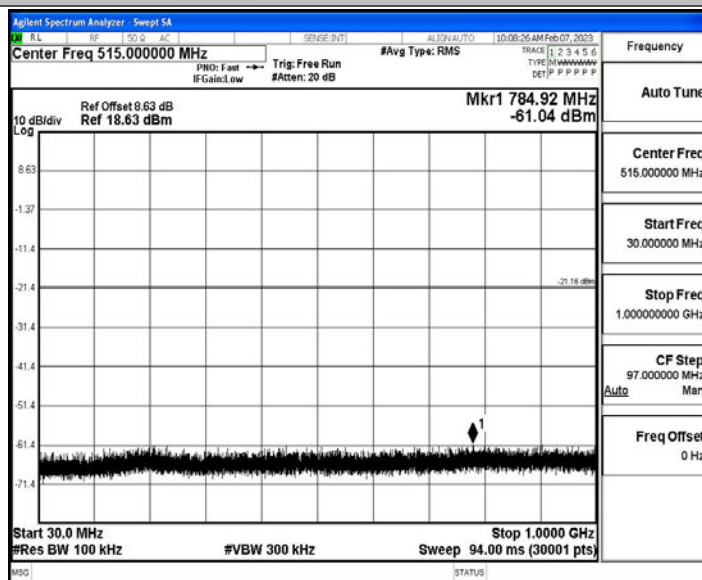
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

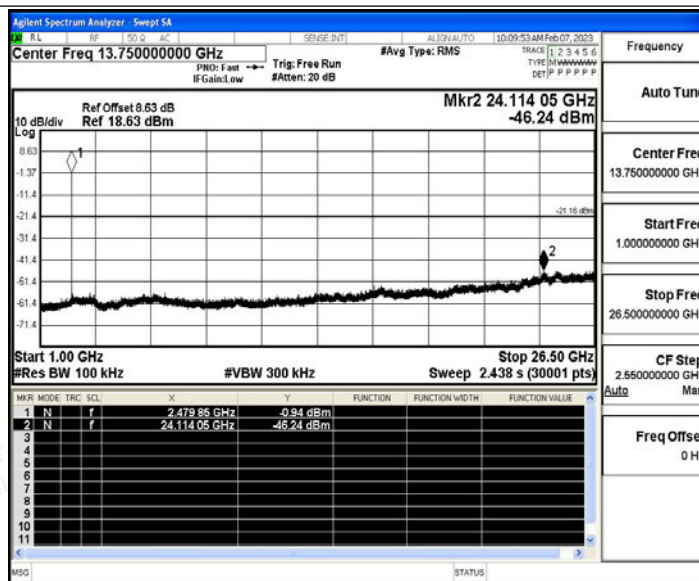


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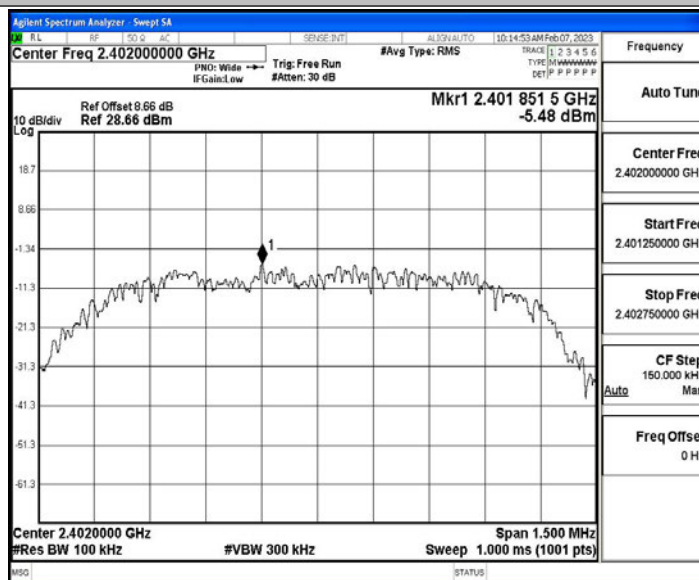
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

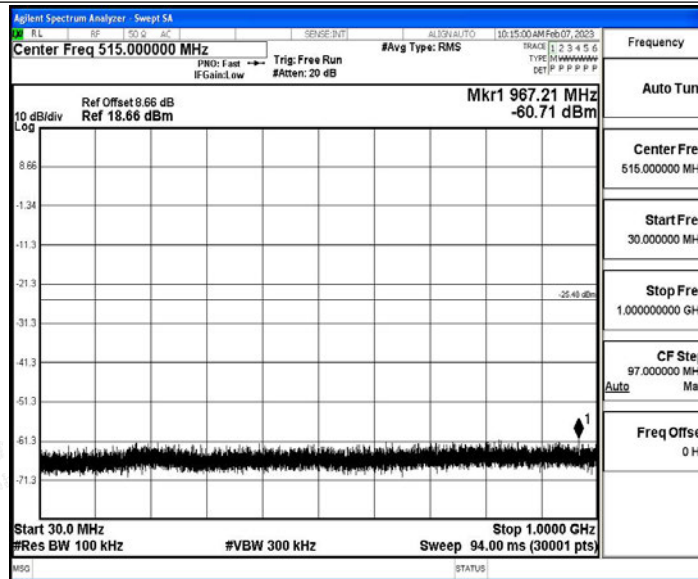


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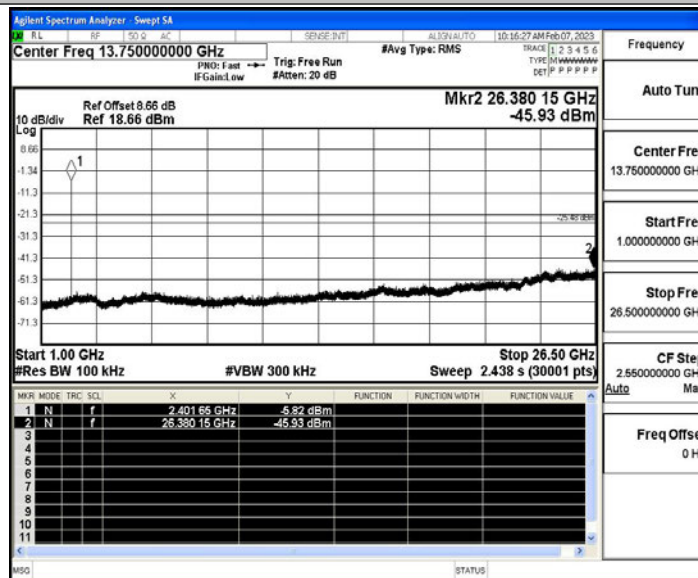
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

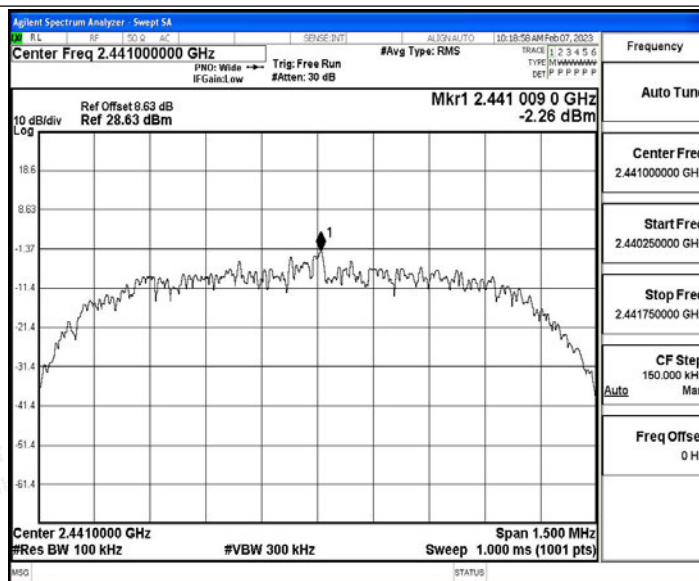


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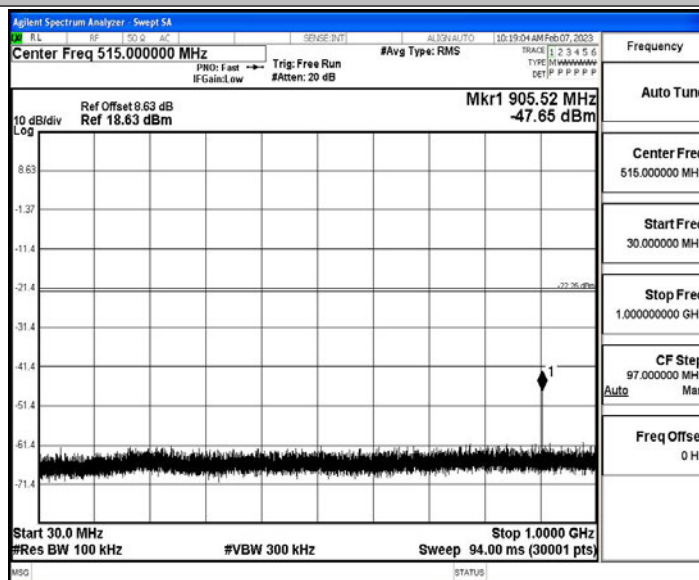
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

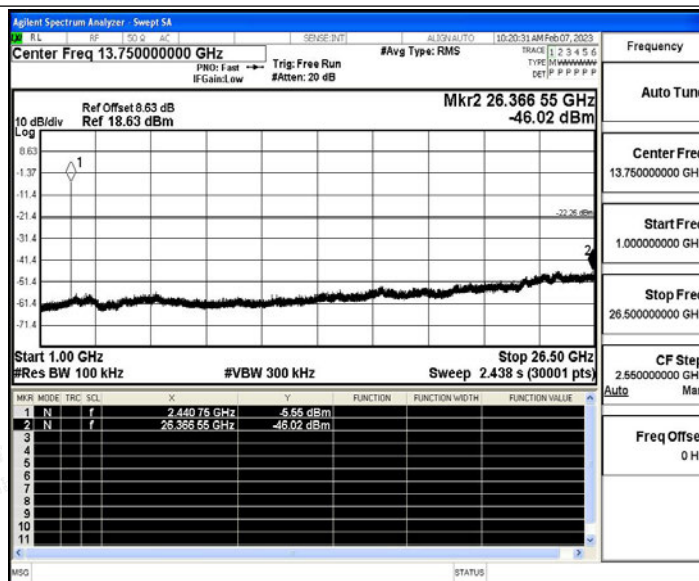


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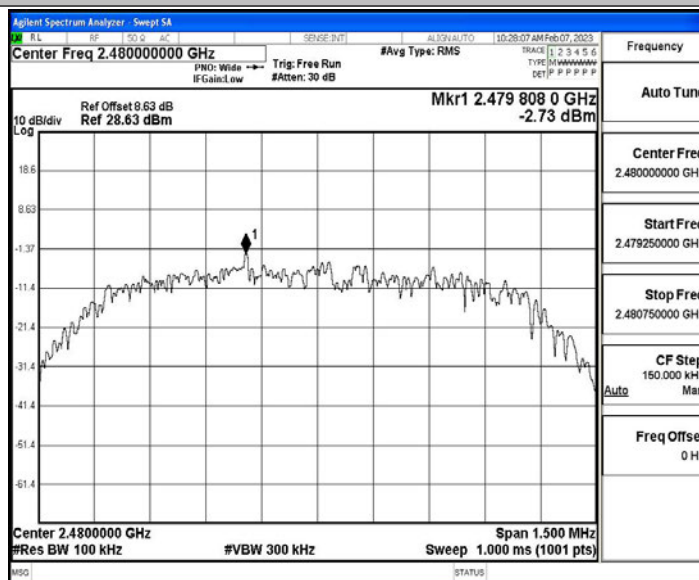
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

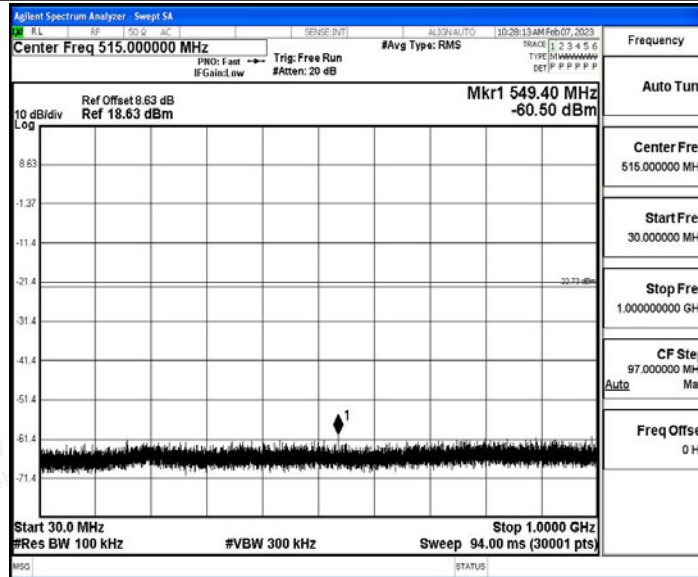


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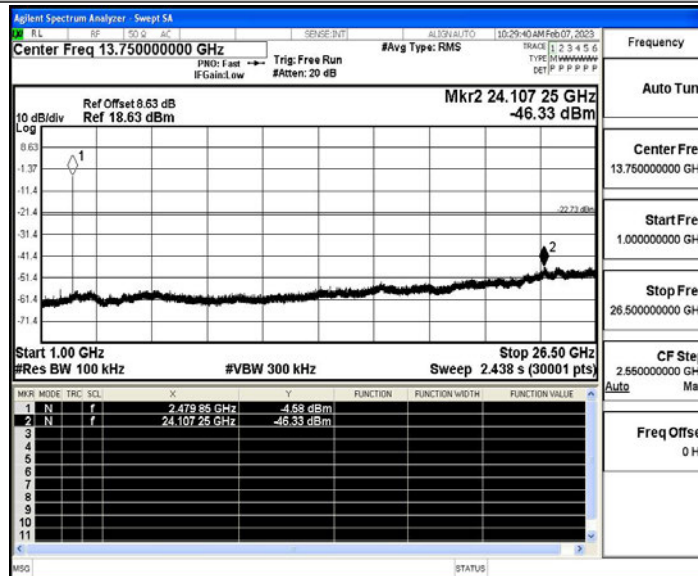
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

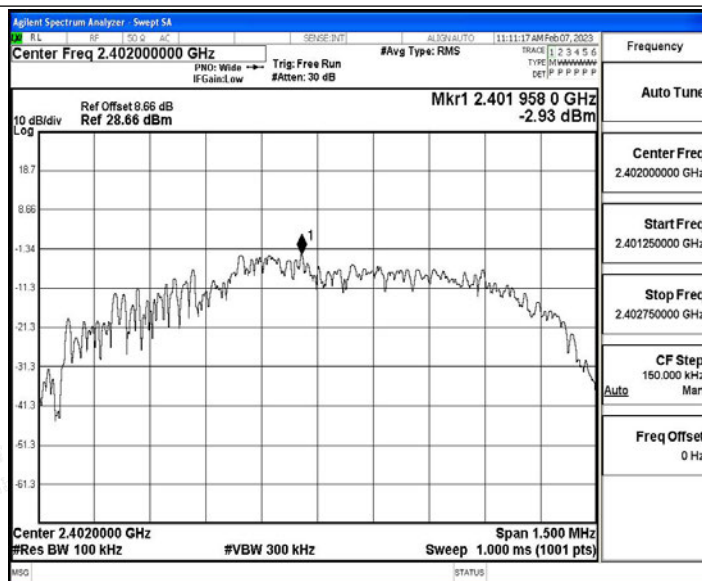


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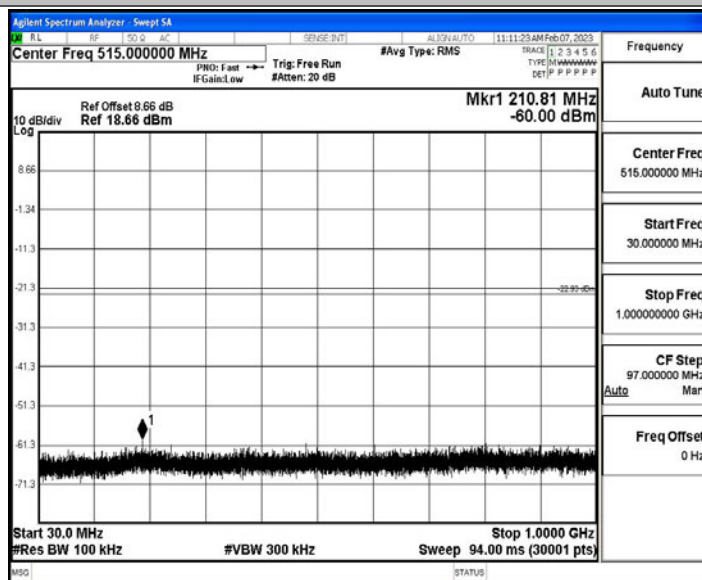
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

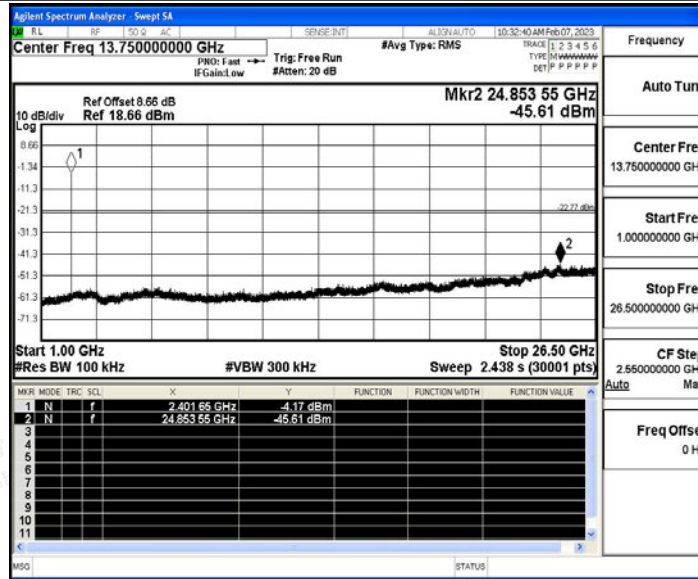


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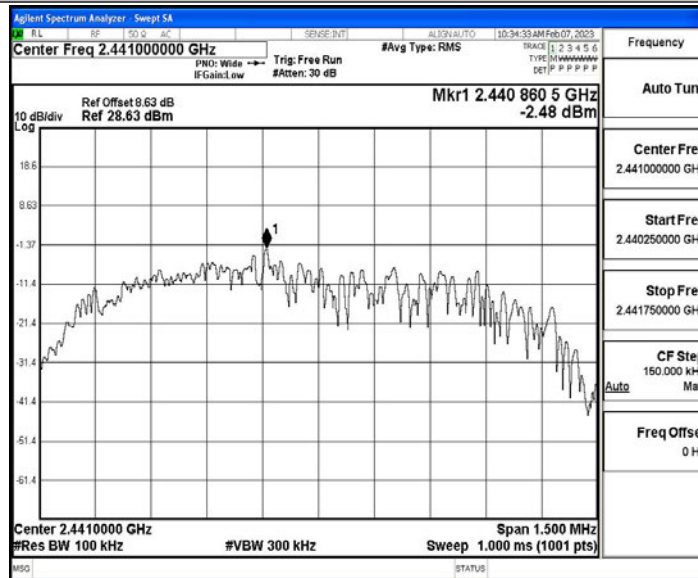
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

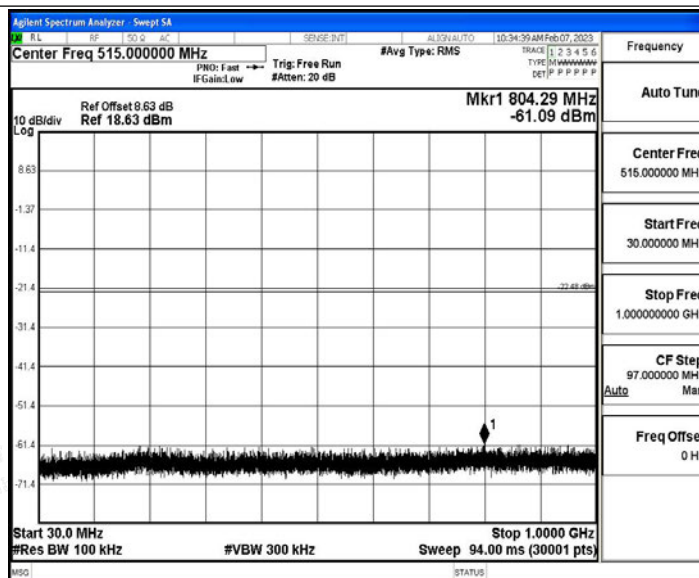


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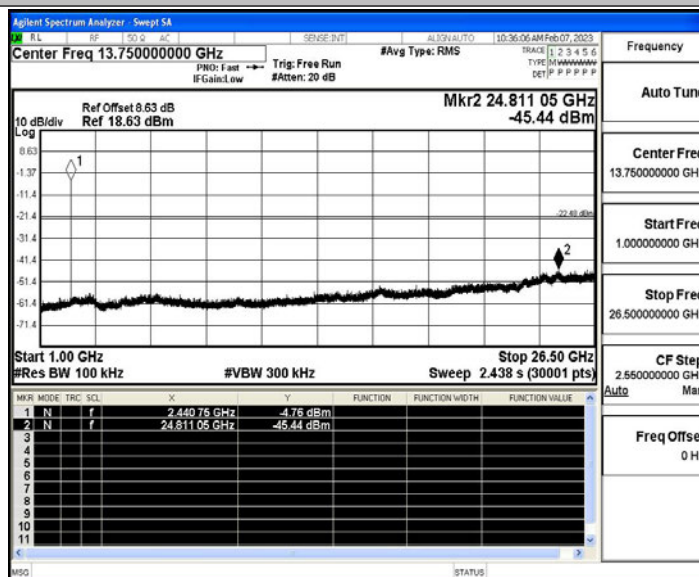
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

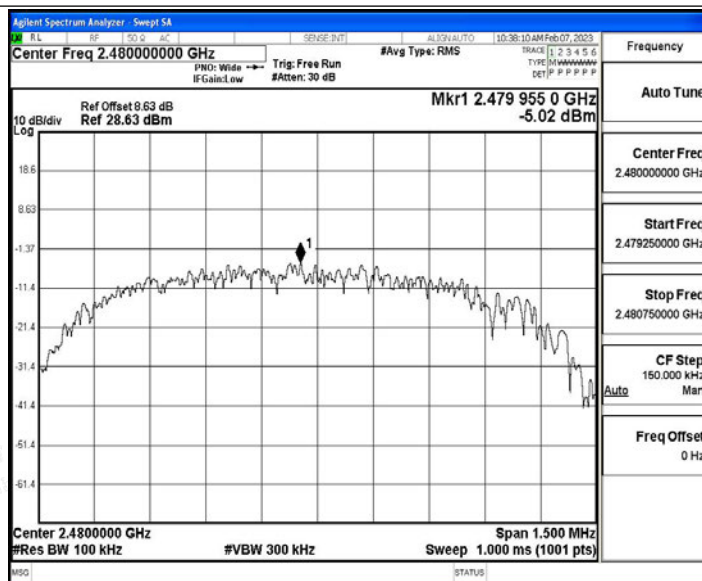


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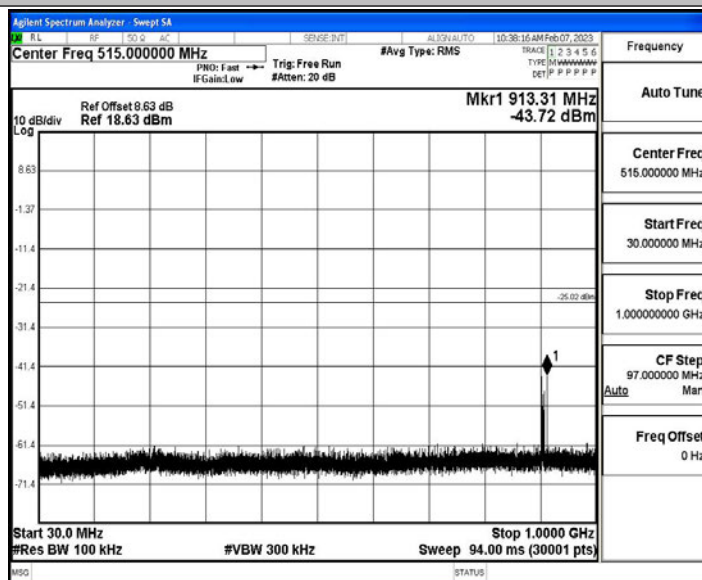
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

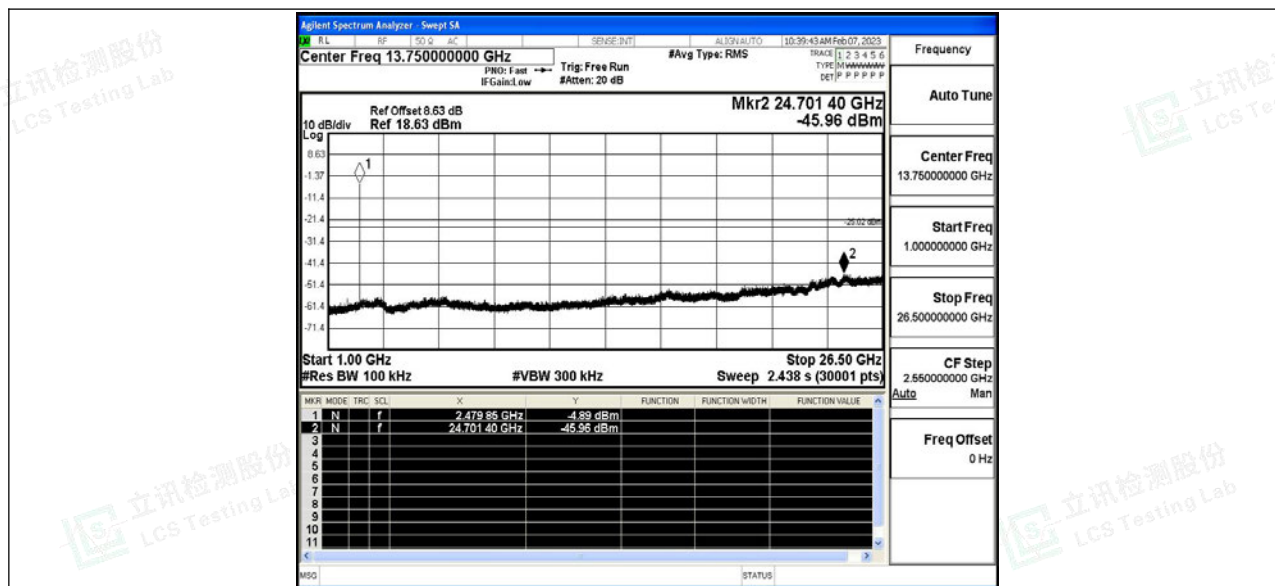


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-58.05	≤-41.20	37.15	≤54	PASS
				AV	2363.630	-56.12	≤-41.20	39.08	≤54	PASS
				AV	2390.000	-57.63	≤-41.20	37.57	≤54	PASS
				Peak	2310.000	-51.66	≤-21.20	43.54	≤74	PASS
				Peak	2342.105	-48.78	≤-21.20	46.42	≤74	PASS
				Peak	2390.000	-50.74	≤-21.20	44.46	≤74	PASS
		High	2480	AV	2483.500	-55.58	≤-41.20	39.62	≤54	PASS
				AV	2483.520	-55.58	≤-41.20	39.62	≤54	PASS
				AV	2500.000	-57.1	≤-41.20	38.10	≤54	PASS
				Peak	2483.500	-50.31	≤-21.20	44.89	≤74	PASS
				Peak	2499.120	-47.31	≤-21.20	47.89	≤74	PASS
				Peak	2500.000	-51.57	≤-21.20	43.63	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-50.15	≤-21.20	45.05	≤74	PASS
				Peak	2360.900	-46.87	≤-21.20	48.33	≤74	PASS
				Peak	2390.000	-50.62	≤-21.20	44.58	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-48.96	≤-21.20	46.24	≤74	PASS
				Peak	2483.920	-35.85	≤-21.20	59.35	≤74	PASS
				Peak	2500.000	-49.07	≤-21.20	46.13	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.08	≤-41.20	37.12	≤54	PASS
				AV	2389.145	-57.46	≤-41.20	37.74	≤54	PASS
				AV	2390.000	-57.61	≤-41.20	37.59	≤54	PASS
				Peak	2310.000	-54.24	≤-21.20	40.96	≤74	PASS
				Peak	2385.785	-48.16	≤-21.20	47.04	≤74	PASS
				Peak	2390.000	-50.99	≤-21.20	44.21	≤74	PASS
		High	2480	AV	2483.500	-55.03	≤-41.20	40.17	≤54	PASS
				AV	2483.520	-55.03	≤-41.20	40.17	≤54	PASS
				AV	2500.000	-57.12	≤-41.20	38.08	≤54	PASS
				Peak	2483.500	-52.79	≤-21.20	42.41	≤74	PASS
				Peak	2486.480	-47.94	≤-21.20	47.26	≤74	PASS
				Peak	2500.000	-53.16	≤-21.20	42.04	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-49.51	≤-21.20	45.69	≤74	PASS
				Peak	2348.510	-47.35	≤-21.20	47.85	≤74	PASS
				Peak	2390.000	-49.16	≤-21.20	46.04	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-49.43	≤-21.20	45.77	≤74	PASS
				Peak	2485.200	-40.92	≤-21.20	54.28	≤74	PASS



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				Peak	2500.000	-48.12	≤-21.20	47.08	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.14	≤-41.20	37.06	≤54	PASS
				AV	2389.145	-57.49	≤-41.20	37.71	≤54	PASS
				AV	2390.000	-57.63	≤-41.20	37.57	≤54	PASS
				Peak	2310.000	-52.58	≤-21.20	42.62	≤74	PASS
				Peak	2316.800	-49.4	≤-21.20	45.80	≤74	PASS
				Peak	2390.000	-53.32	≤-21.20	41.88	≤74	PASS
		High	2480	AV	2483.500	-55.24	≤-41.20	39.96	≤54	PASS
				AV	2483.520	-55.24	≤-41.20	39.96	≤54	PASS
				AV	2500.000	-57.2	≤-41.20	38.00	≤54	PASS
				Peak	2483.500	-53.85	≤-21.20	41.35	≤74	PASS
				Peak	2484.240	-39.45	≤-21.20	55.75	≤74	PASS
				Peak	2500.000	-51.4	≤-21.20	43.80	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-49.54	≤-21.20	45.66	≤74	PASS
				Peak	2368.670	-47.46	≤-21.20	47.74	≤74	PASS
				Peak	2390.000	-49	≤-21.20	46.20	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-47.82	≤-21.20	47.38	≤74	PASS
				Peak	2496.960	-46.69	≤-21.20	48.51	≤74	PASS
				Peak	2500.000	-49.22	≤-21.20	45.98	≤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.



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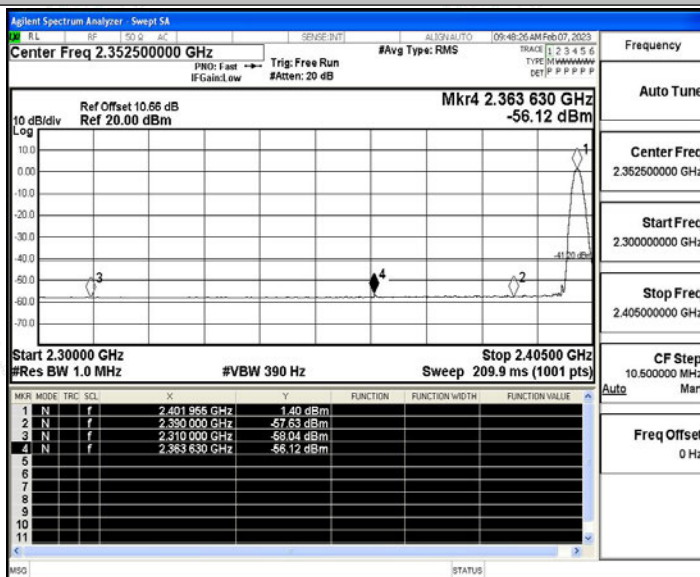
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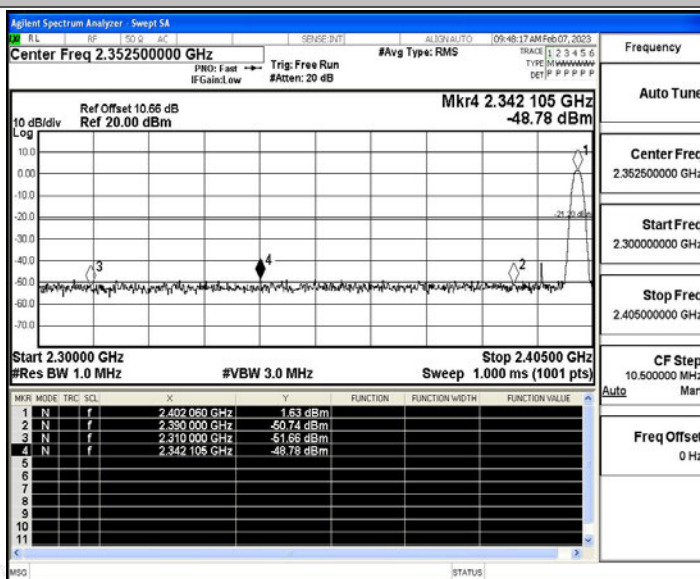


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

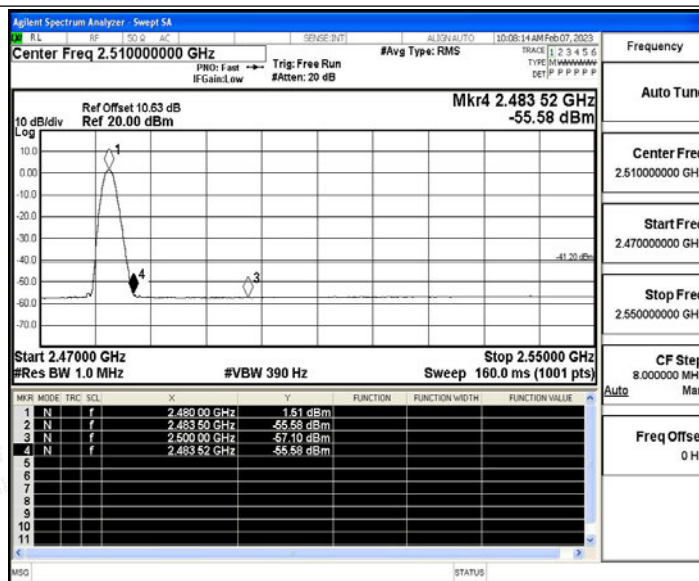


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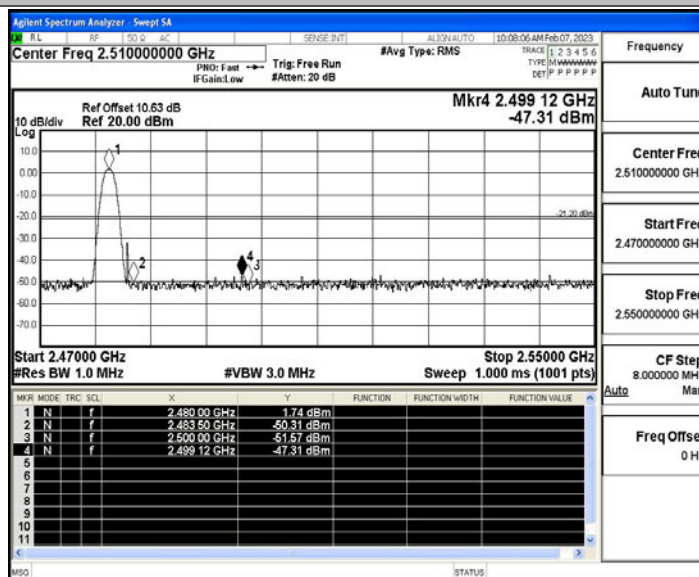
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

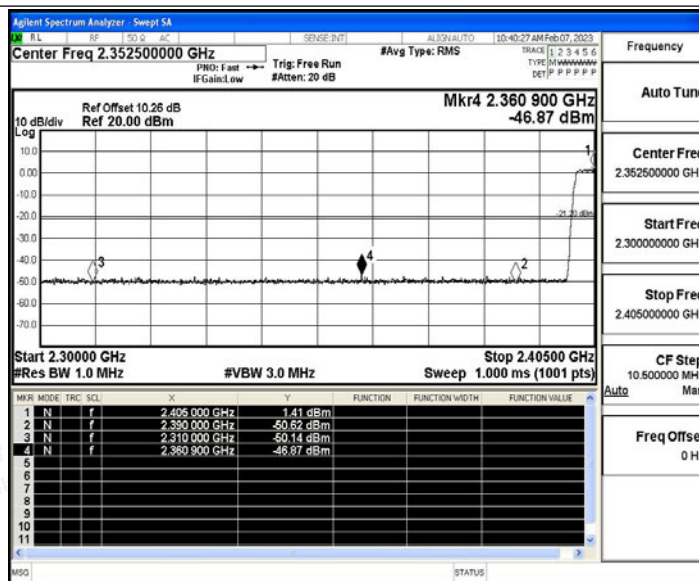


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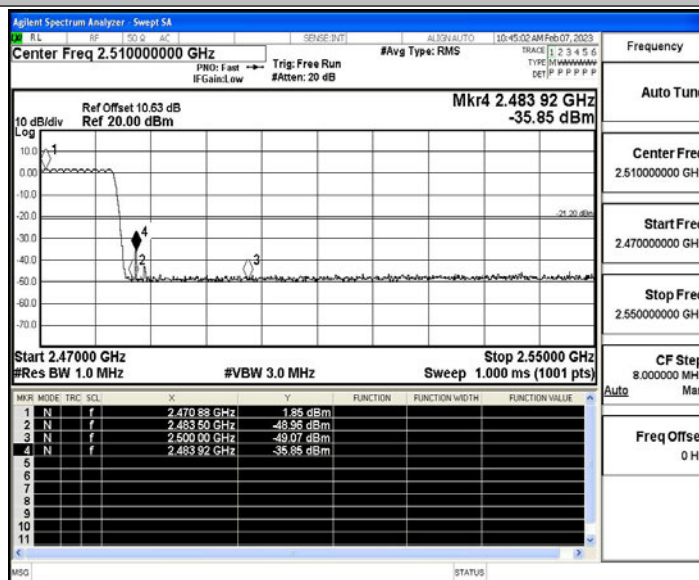
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

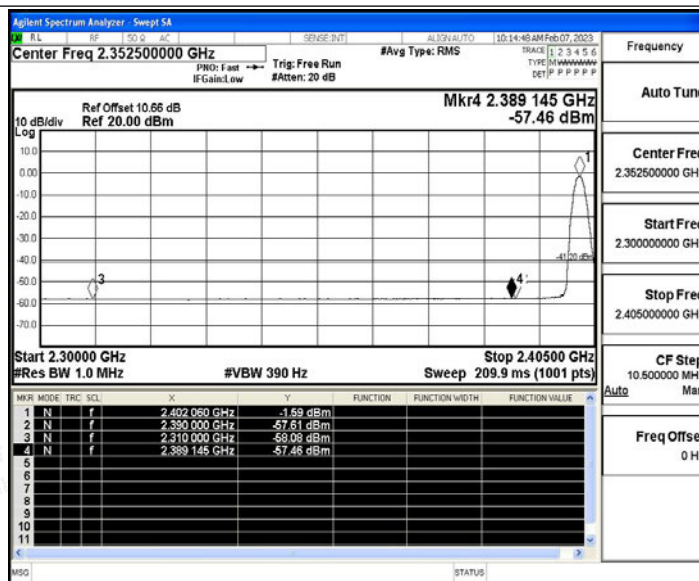


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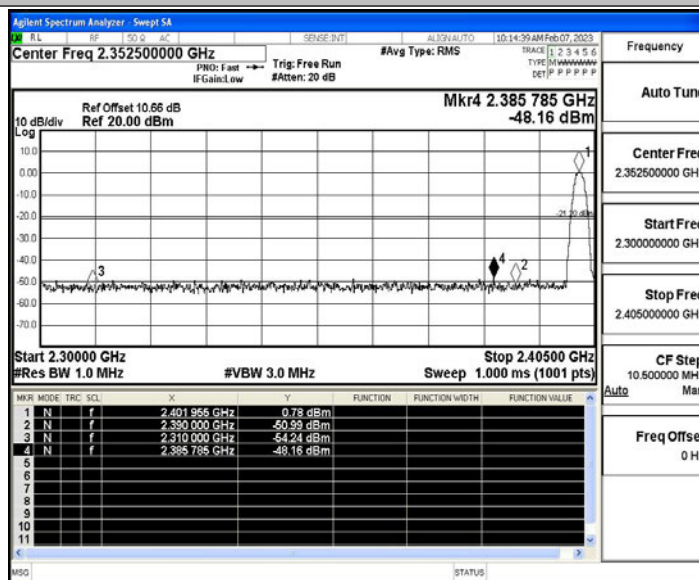
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

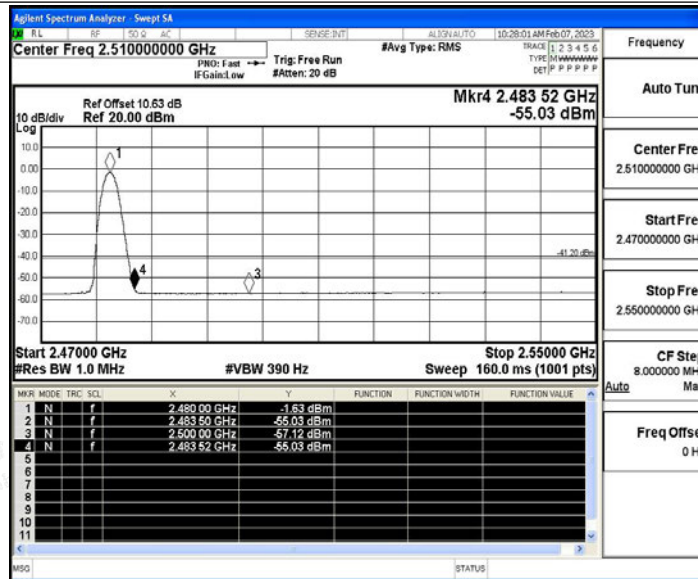


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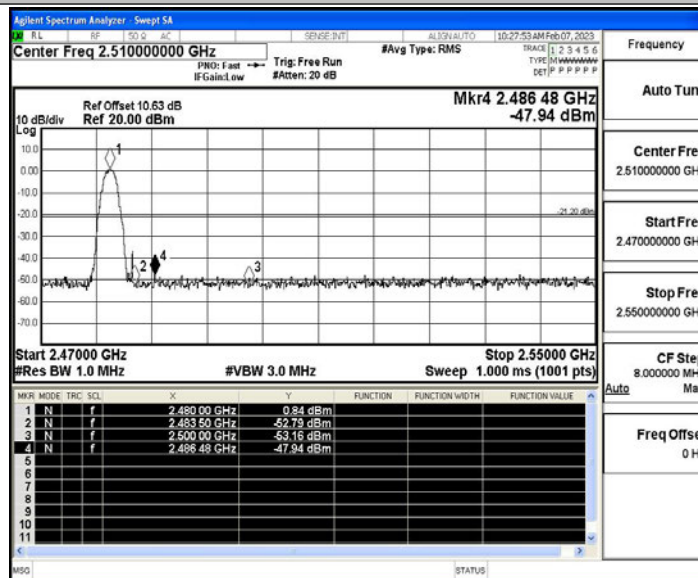
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

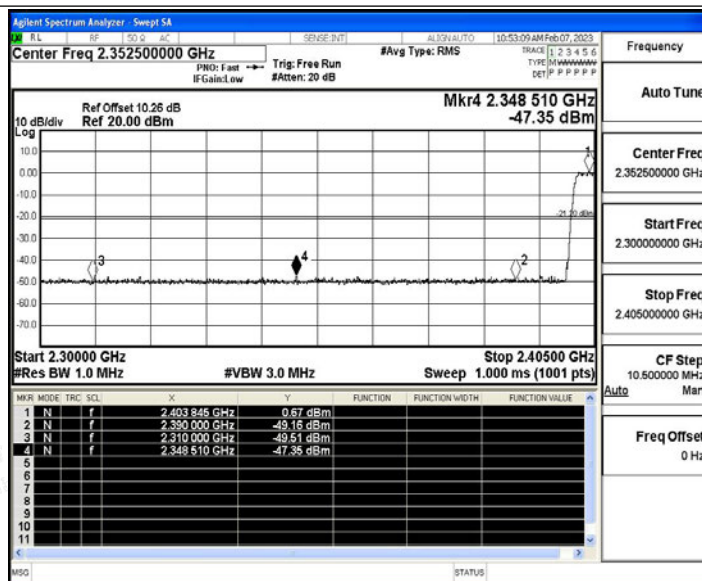


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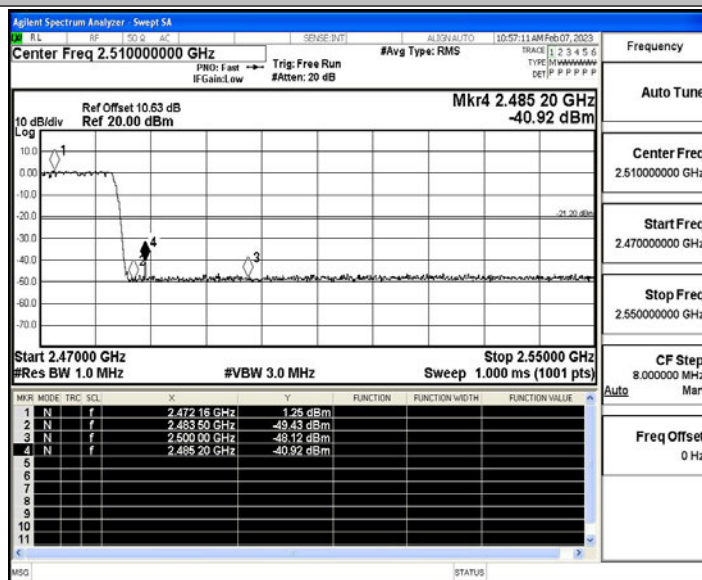
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

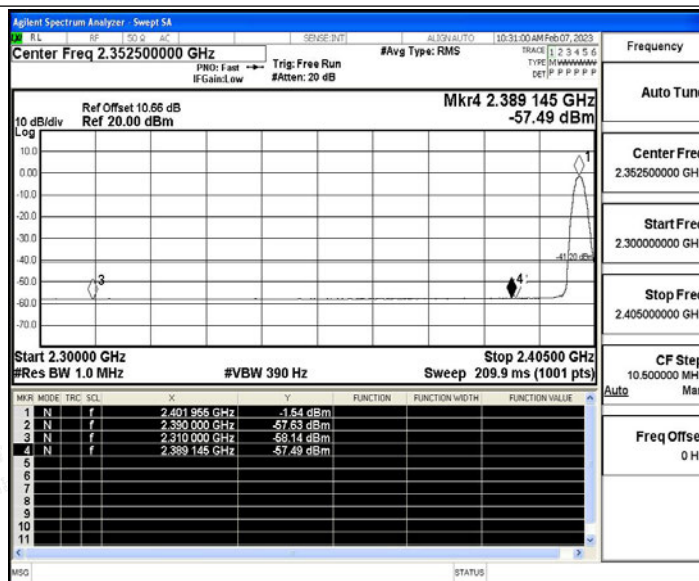


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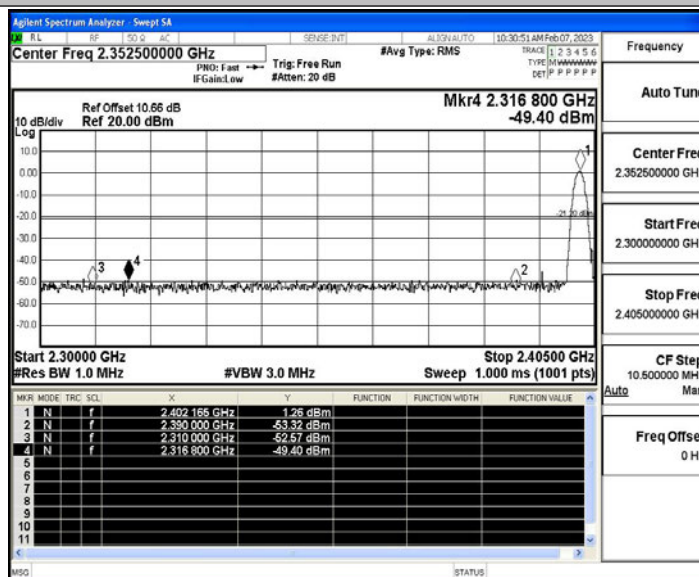
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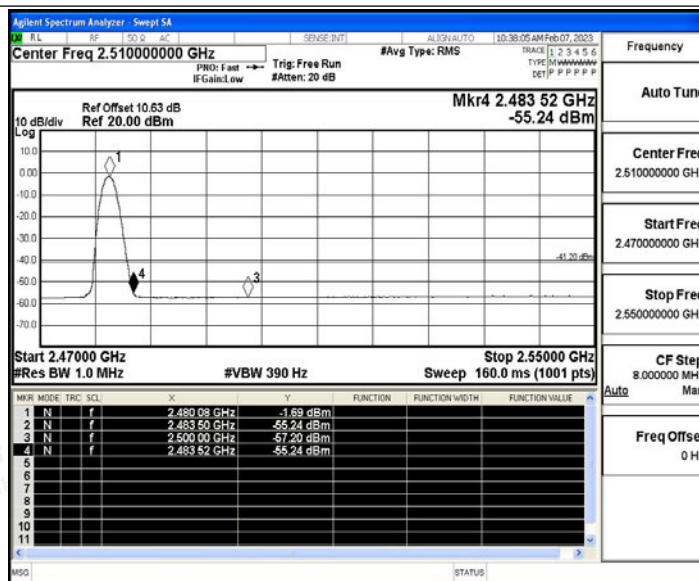


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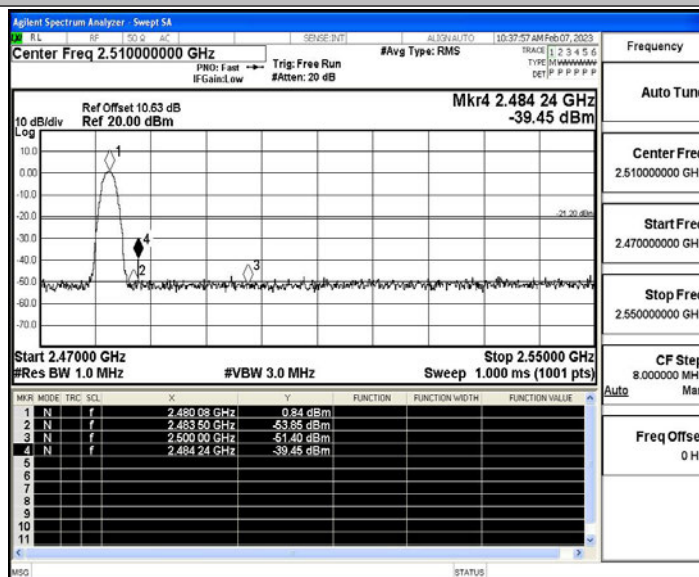
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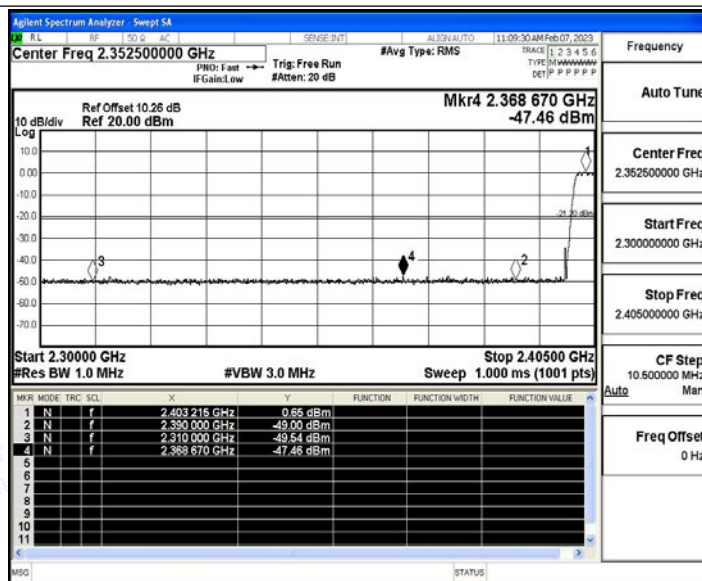


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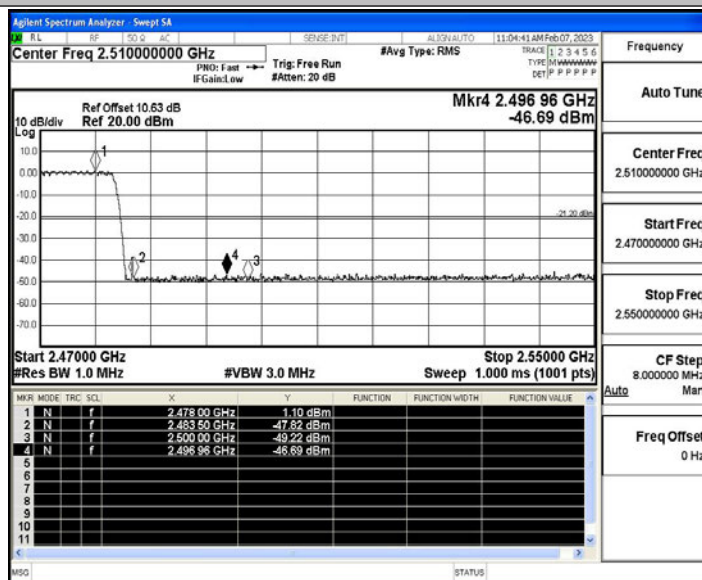
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