



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: FM Transmitter

Test Model: T73

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





A.1 20dB Emission Bandwidth

Test Result

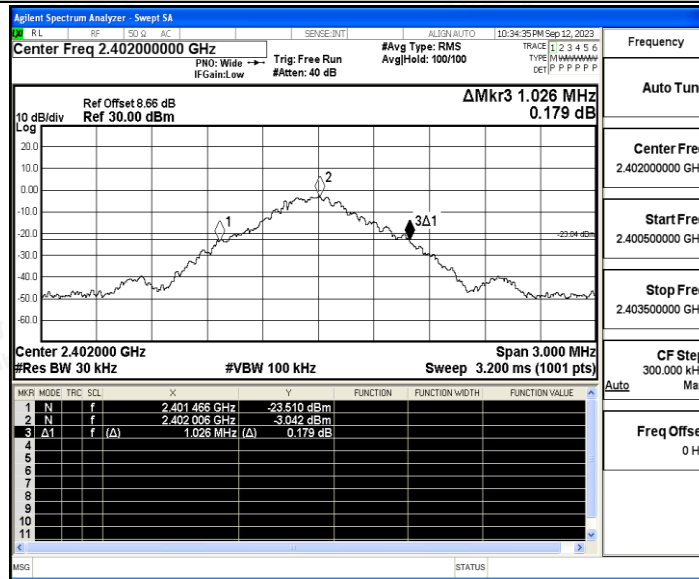
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.026	2401.466	2402.492	---
		2441	1.044	2440.451	2441.495	---
		2480	1.032	2479.448	2480.480	---
2DH5	Ant1	2402	1.335	2401.322	2402.657	---
		2441	1.317	2440.328	2441.645	---
		2480	1.299	2479.349	2480.648	---
3DH5	Ant1	2402	1.314	2401.334	2402.648	---
		2441	1.293	2440.340	2441.633	---
		2480	1.332	2479.322	2480.654	---



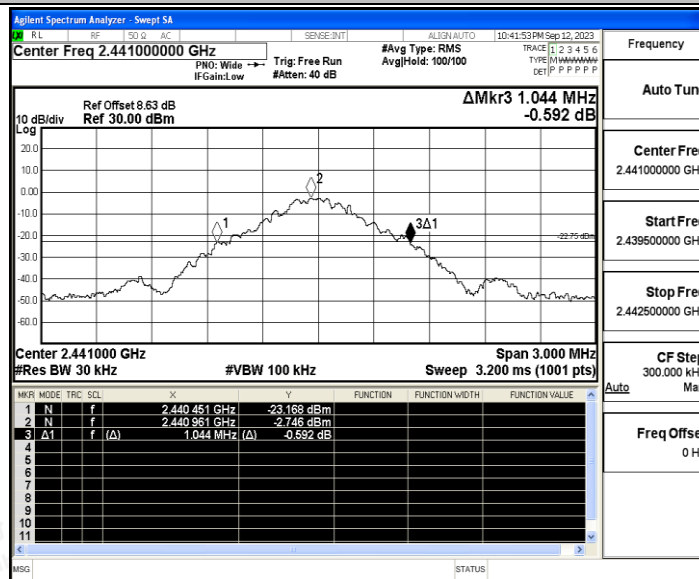


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

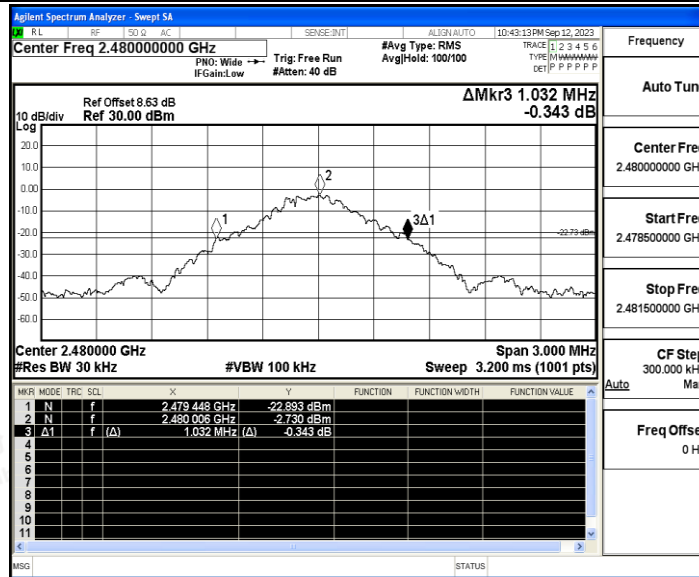


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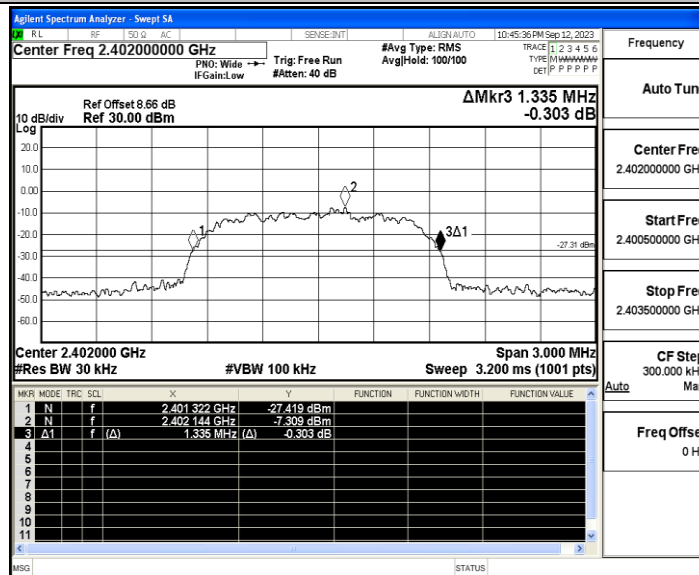
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

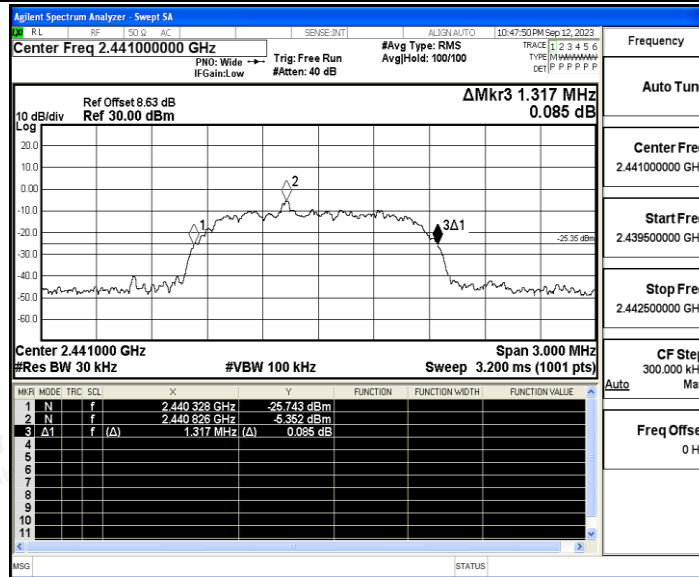


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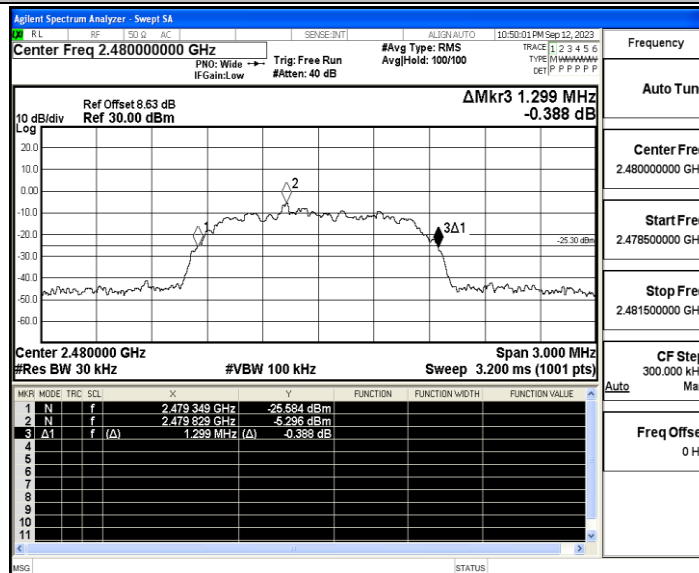
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2DH5_Ant1_2480



3DH5_Ant1_2402

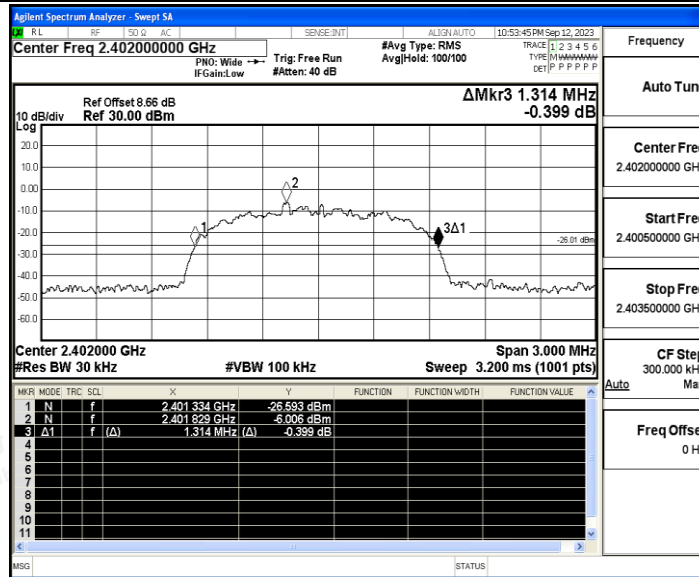


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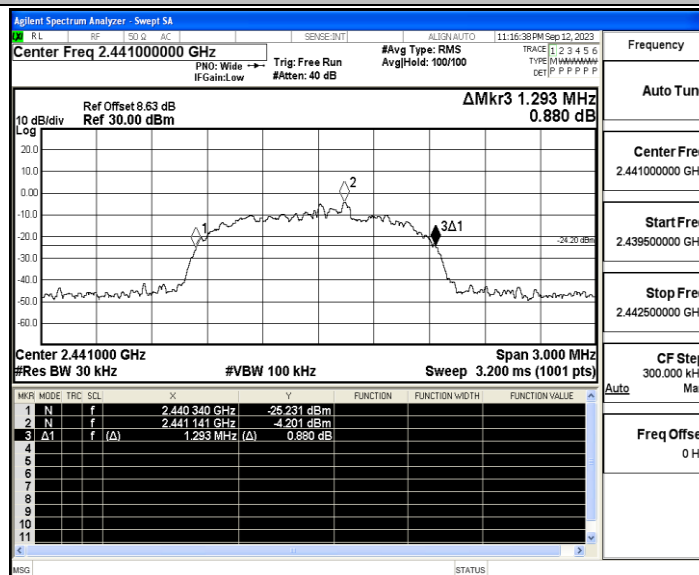
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3DH5_Ant1_2441



3DH5_Ant1_2480

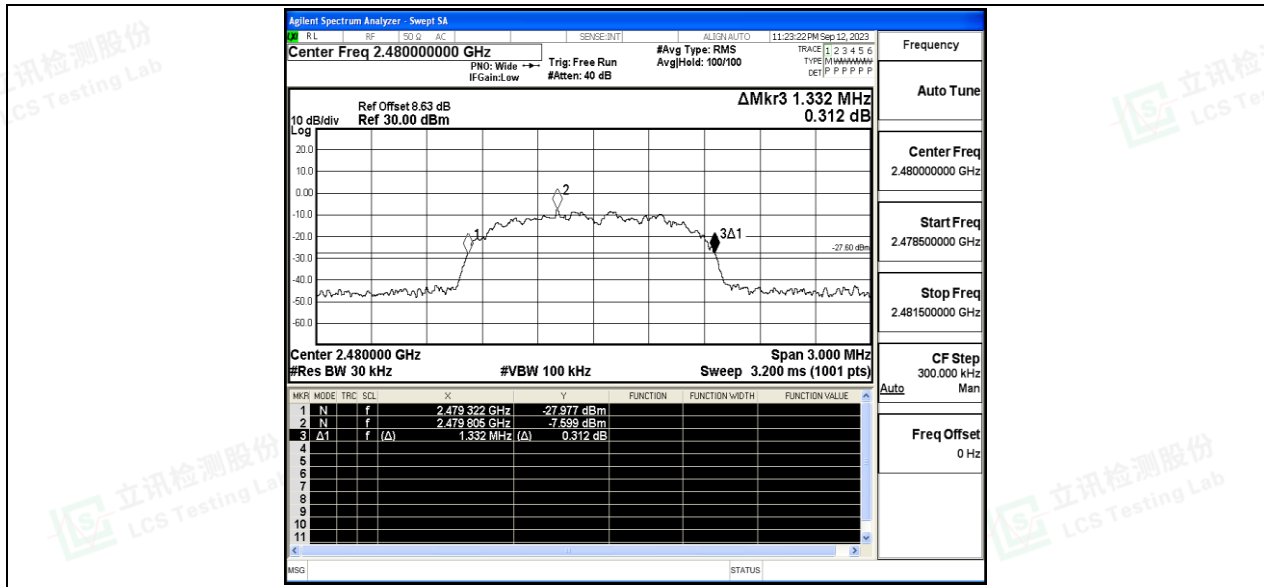


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A.2 Maximum conducted output power

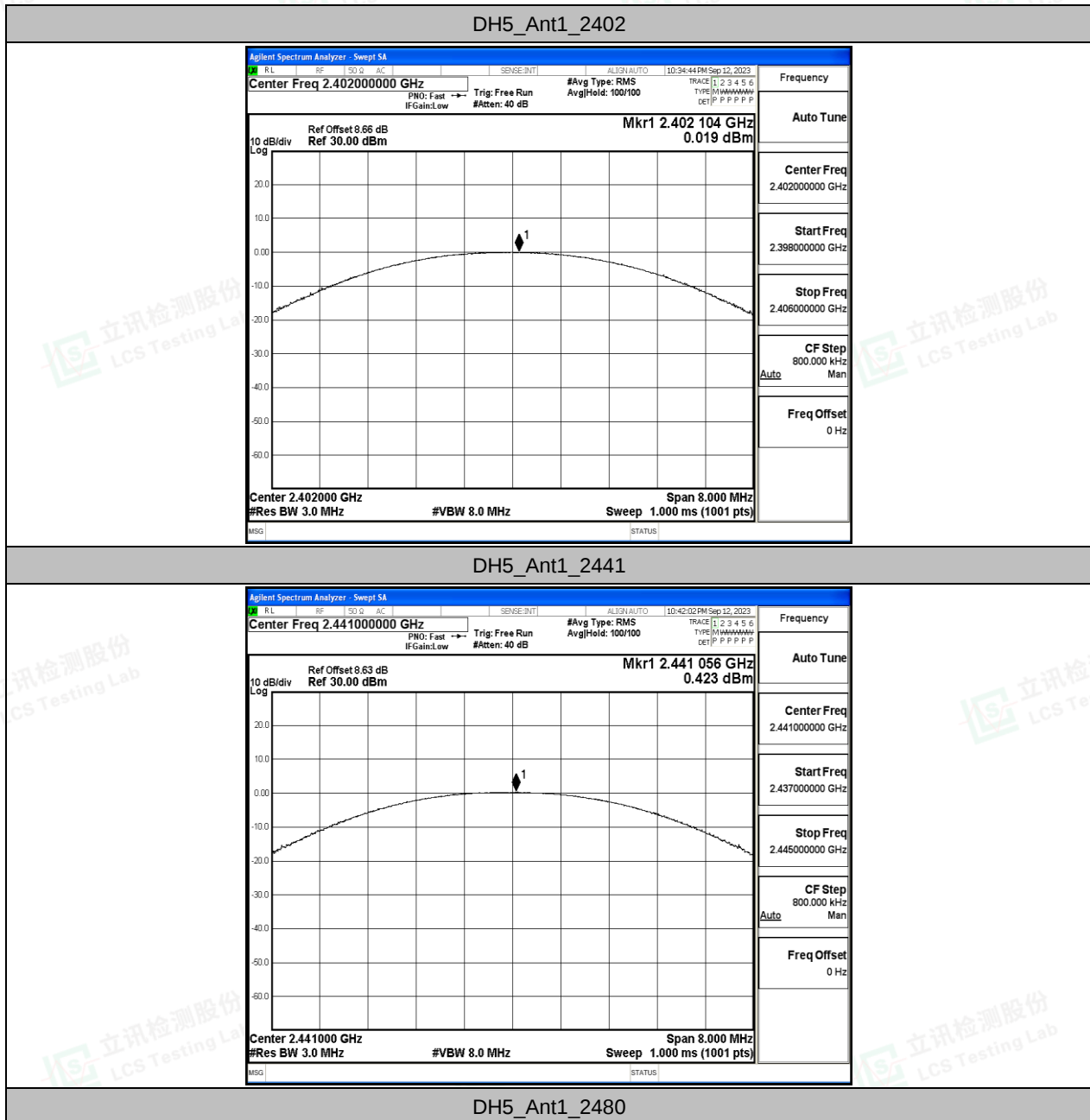
Test Result

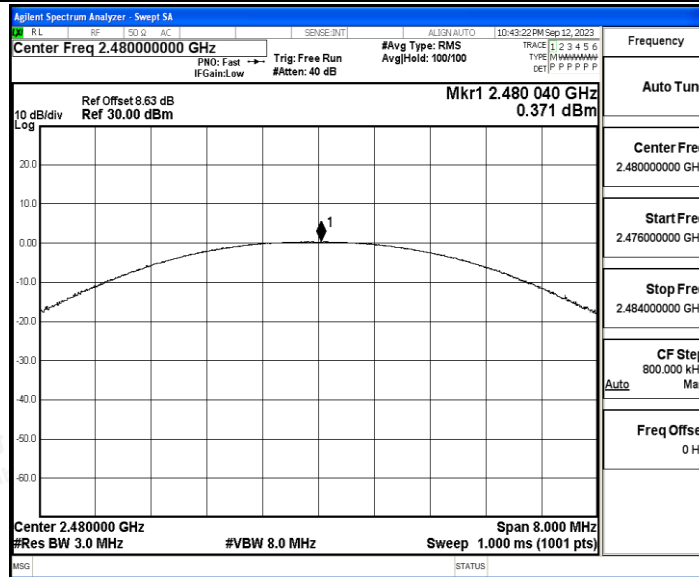
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.02	≤ 20.97	PASS
		2441	0.42	≤ 20.97	PASS
		2480	0.37	≤ 20.97	PASS
2DH5	Ant1	2402	-0.36	≤ 20.97	PASS
		2441	0.01	≤ 20.97	PASS
		2480	0.13	≤ 20.97	PASS
3DH5	Ant1	2402	-0.14	≤ 20.97	PASS
		2441	0.08	≤ 20.97	PASS
		2480	0.22	≤ 20.97	PASS



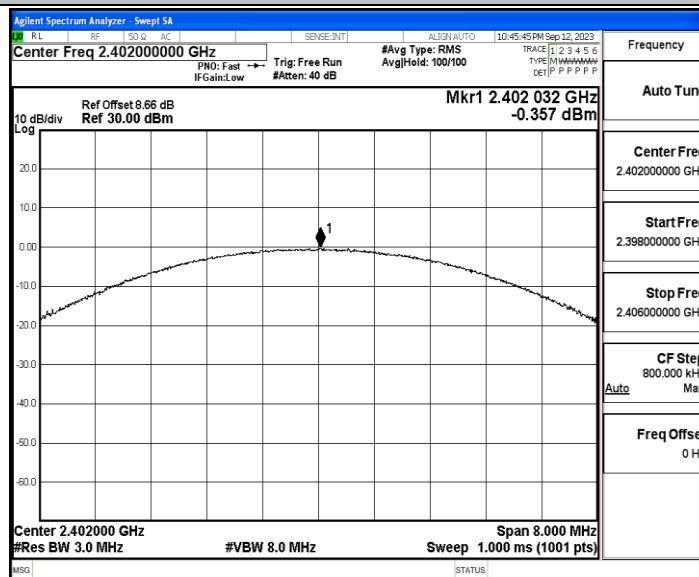


Test Graphs



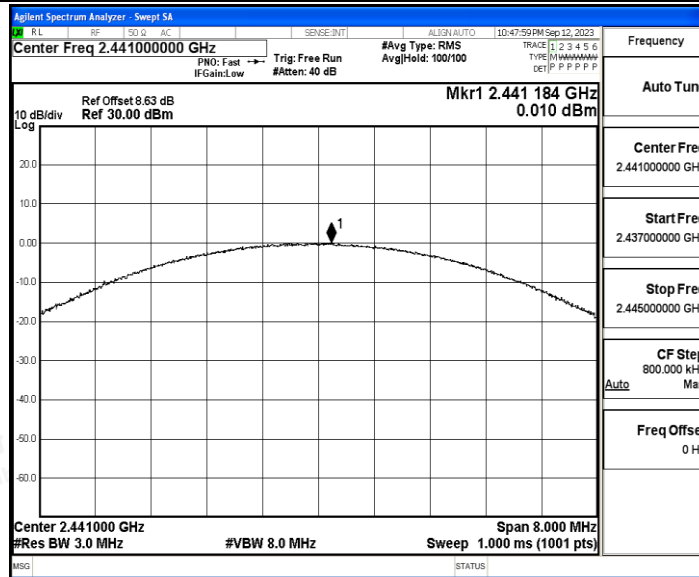


2DH5_Ant1_2402

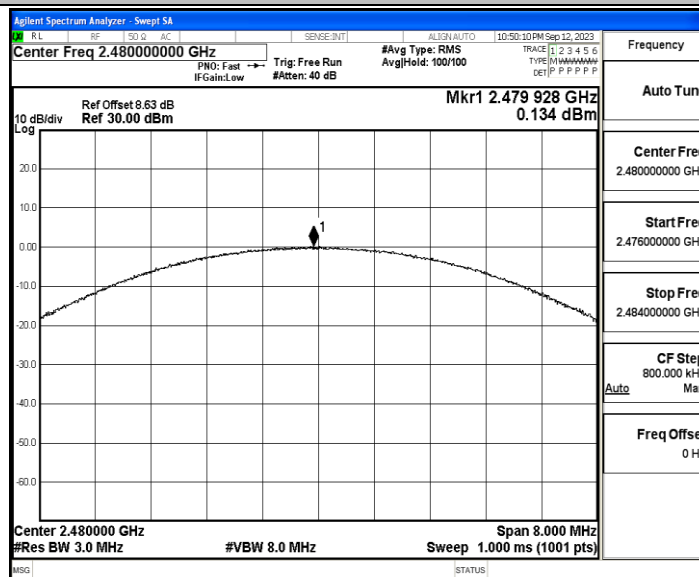


2DH5_Ant1_2441



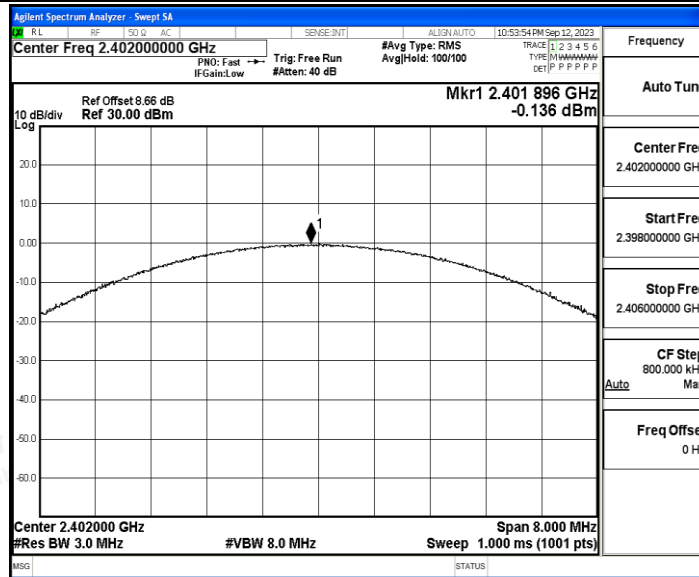


2DH5_Ant1_2480

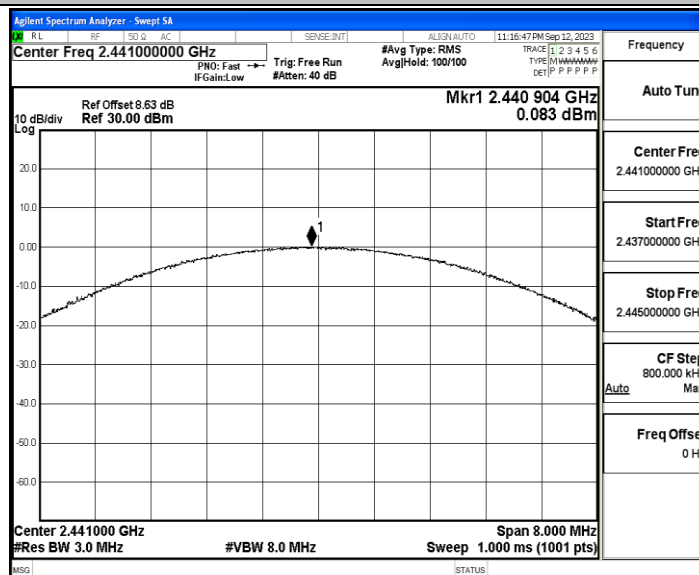


3DH5_Ant1_2402



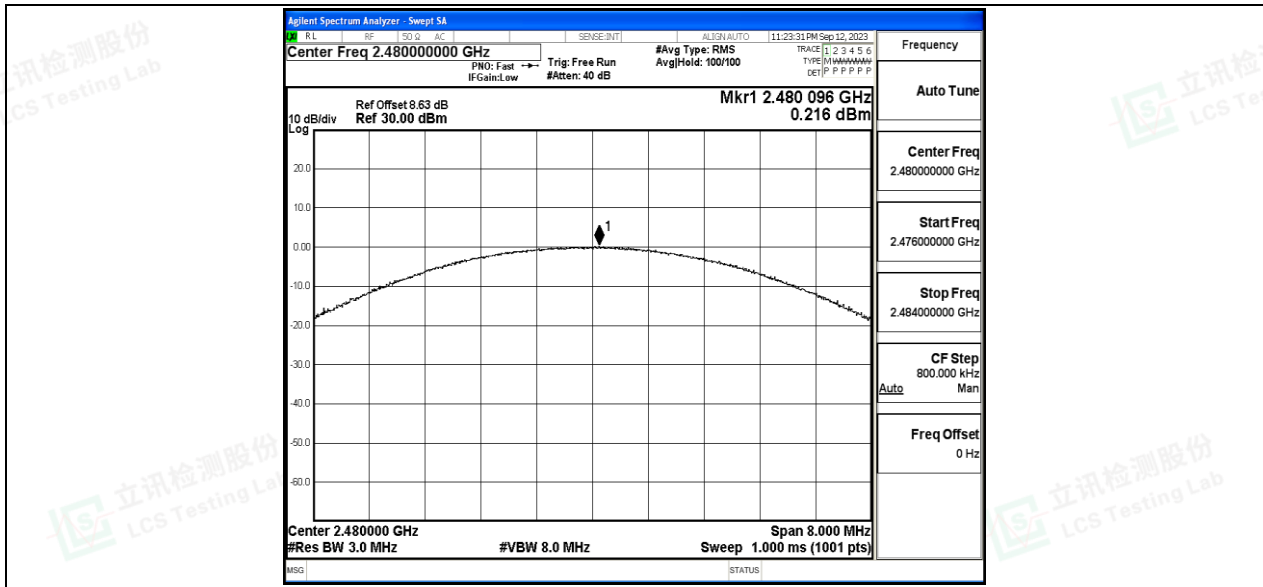


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

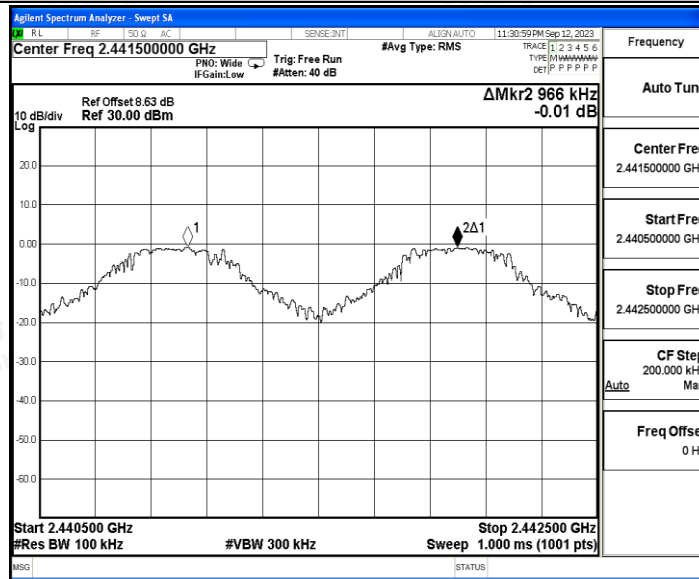
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.966	≥0.696	PASS
2DH5	Ant1	Hop	0.988	≥0.890	PASS
3DH5	Ant1	Hop	1.18	≥0.888	PASS



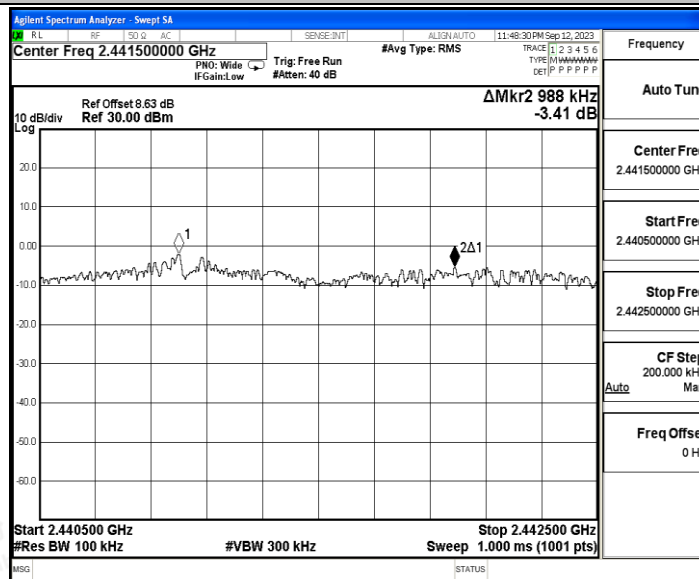


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

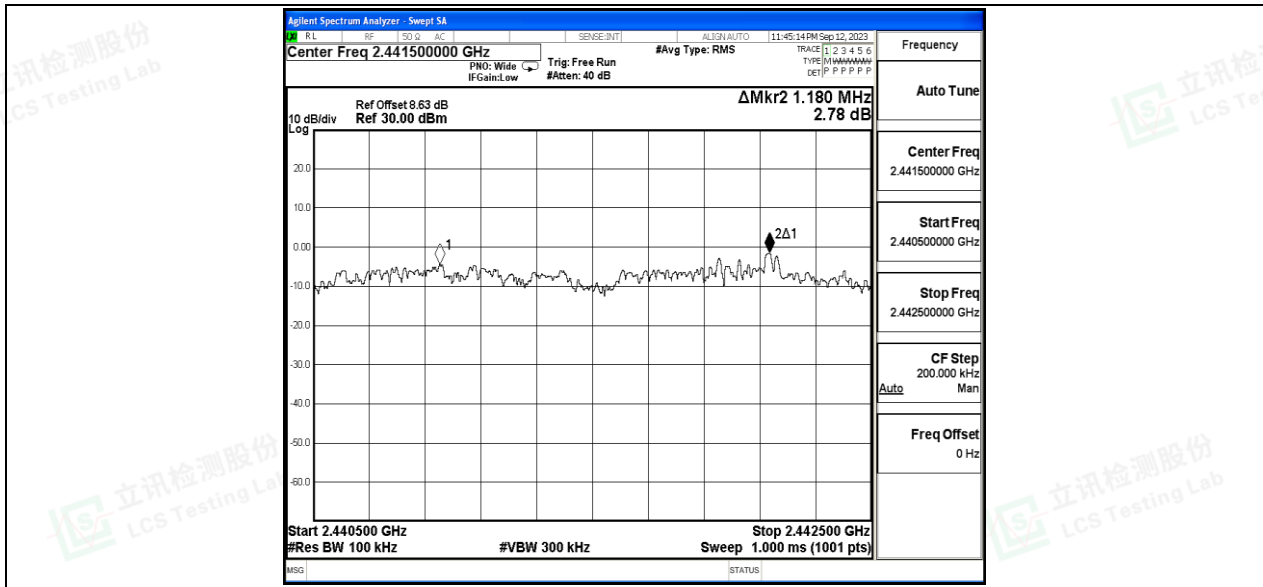


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A.4 Time of occupancy

Test Result

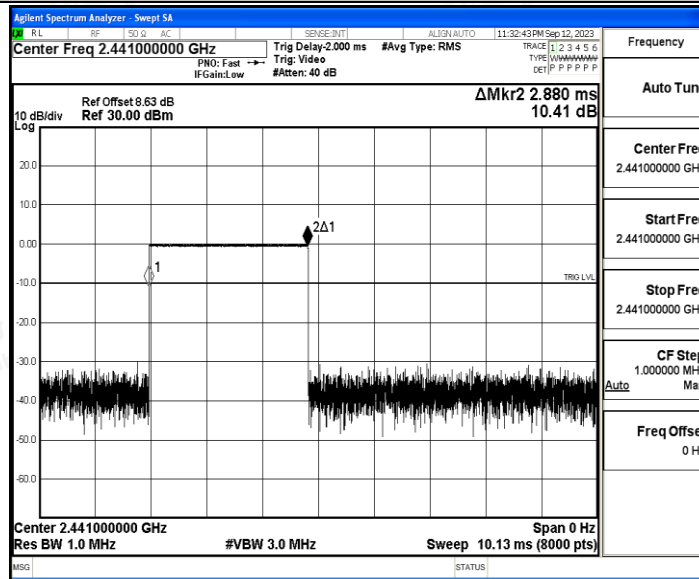
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



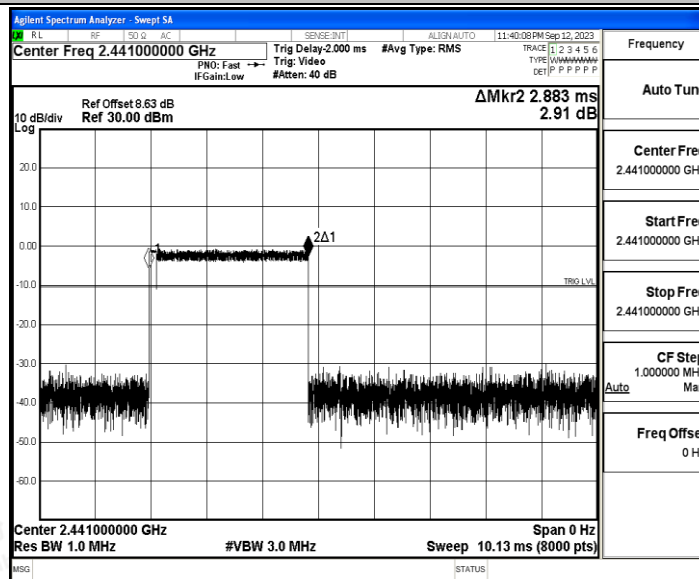


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

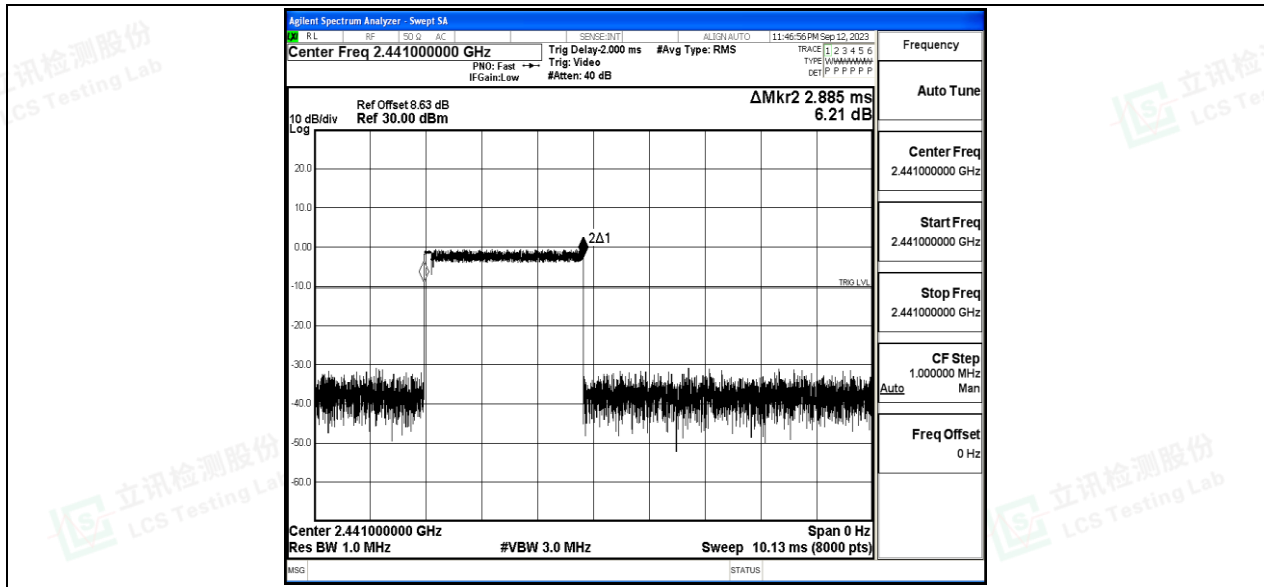


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A.5 Number of hopping channels

Test Result

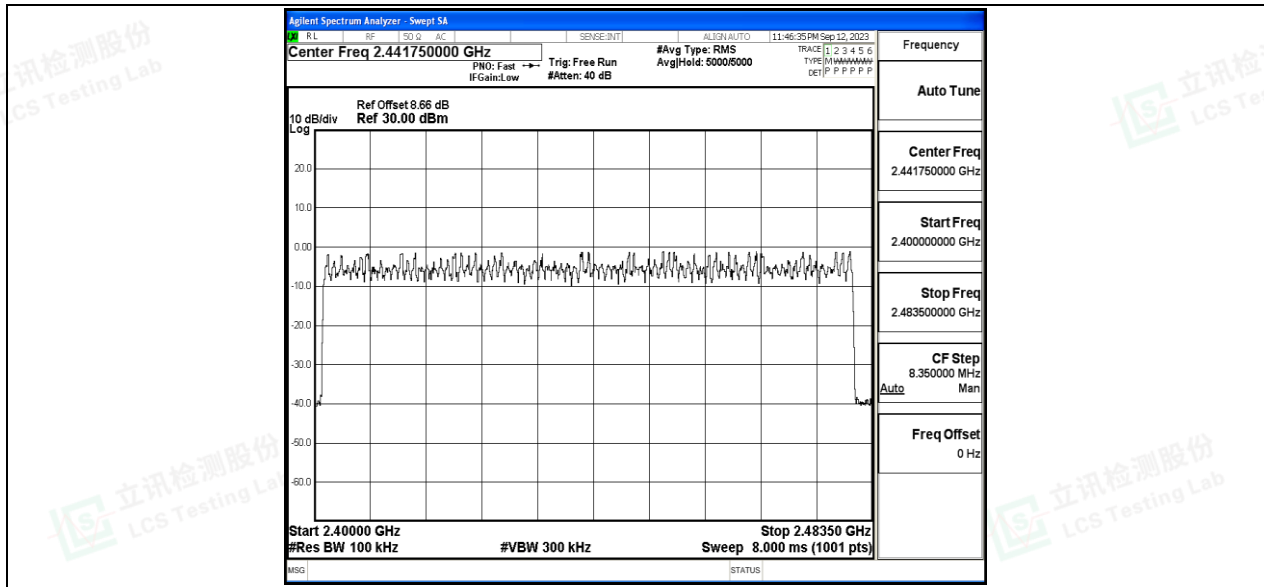
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

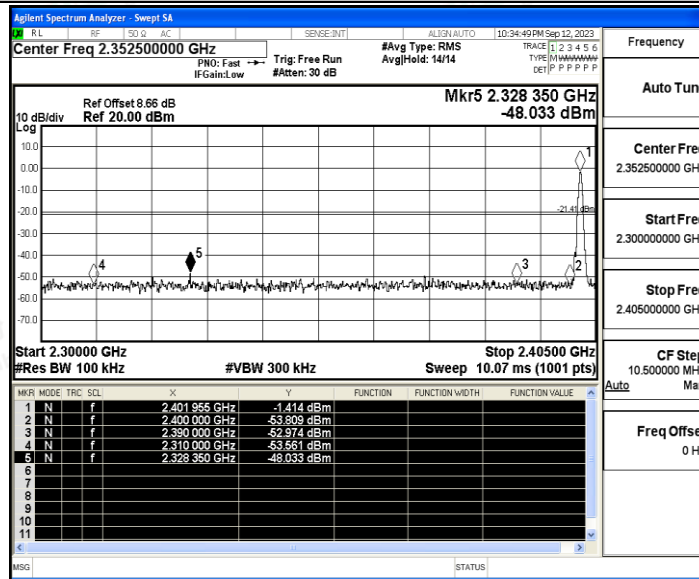
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.41	-48.03	≤ -21.41	PASS
		High	2480	-0.69	-49.17	≤ -20.69	PASS
		Low	Hop_2402	-1.55	-49.6	≤ -21.55	PASS
		High	Hop_2480	-0.25	-48.4	≤ -20.25	PASS
2DH5	Ant1	Low	2402	-5.35	-49.35	≤ -25.35	PASS
		High	2480	-1.12	-49.02	≤ -21.12	PASS
		Low	Hop_2402	-2.68	-49.48	≤ -22.68	PASS
		High	Hop_2480	-1.60	-47.35	≤ -21.6	PASS
3DH5	Ant1	Low	2402	-5.26	-49.46	≤ -25.26	PASS
		High	2480	-1.92	-48.77	≤ -21.92	PASS
		Low	Hop_2402	-4.30	-48.94	≤ -24.3	PASS
		High	Hop_2480	-1.27	-47.61	≤ -21.27	PASS



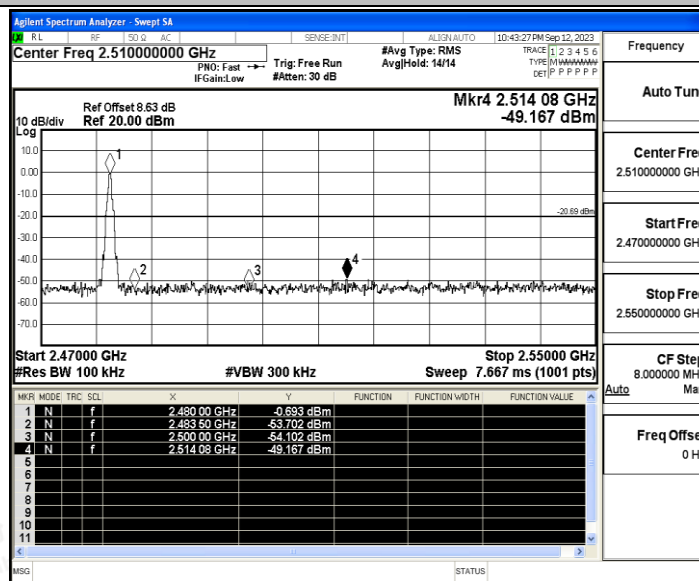


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

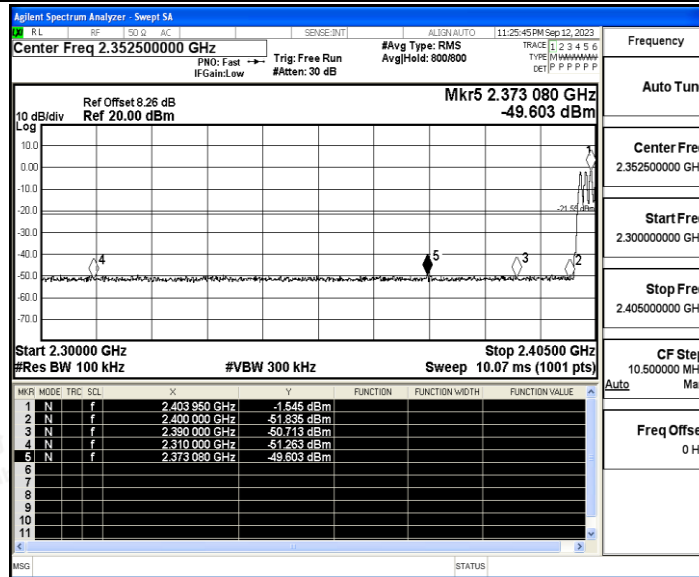


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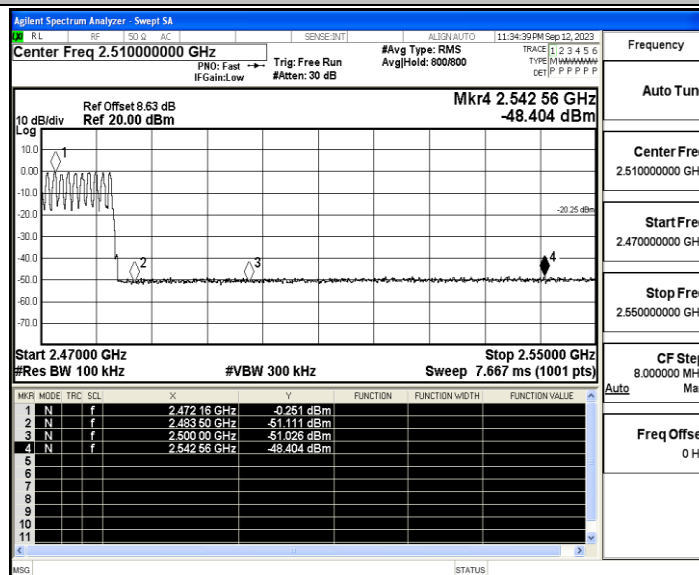
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

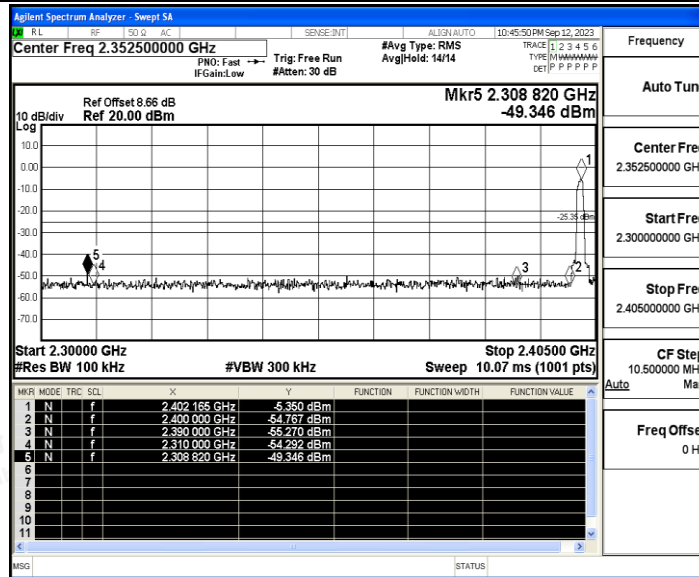


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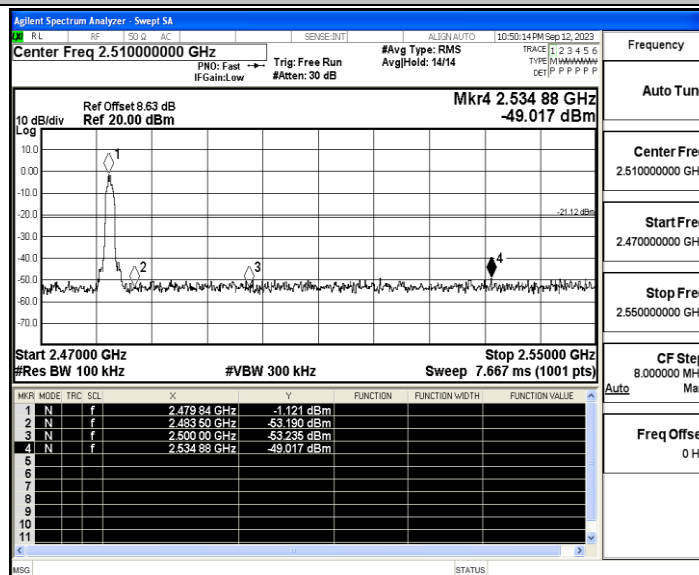
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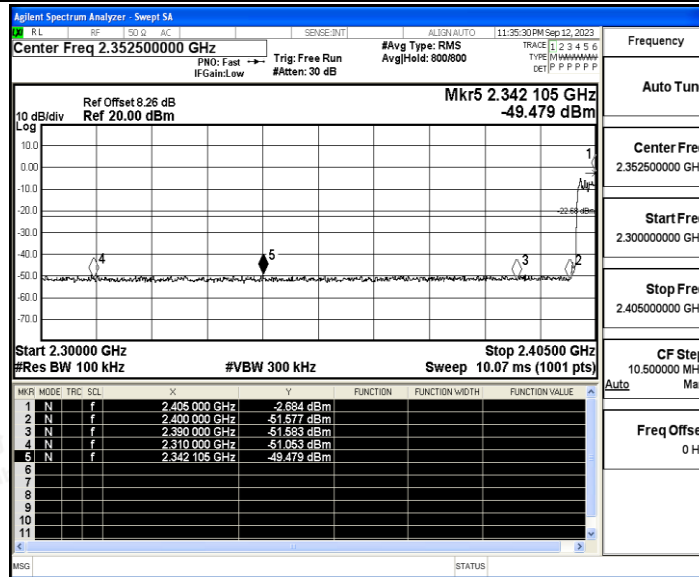


2DH5_Ant1_High_2480

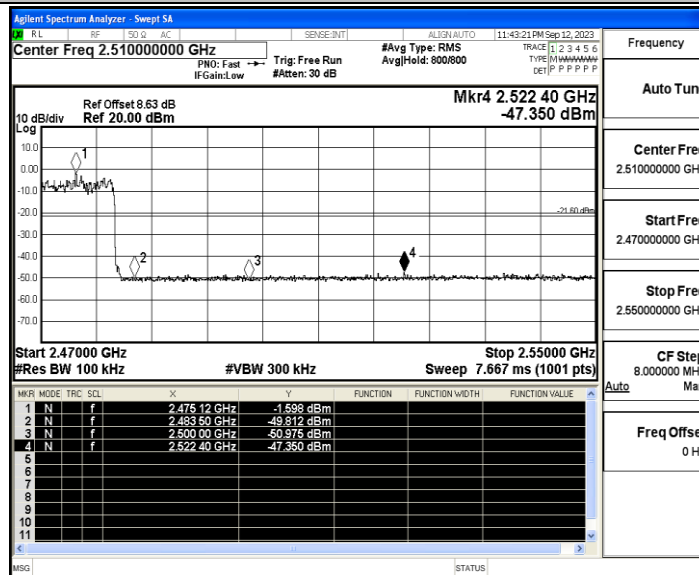


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

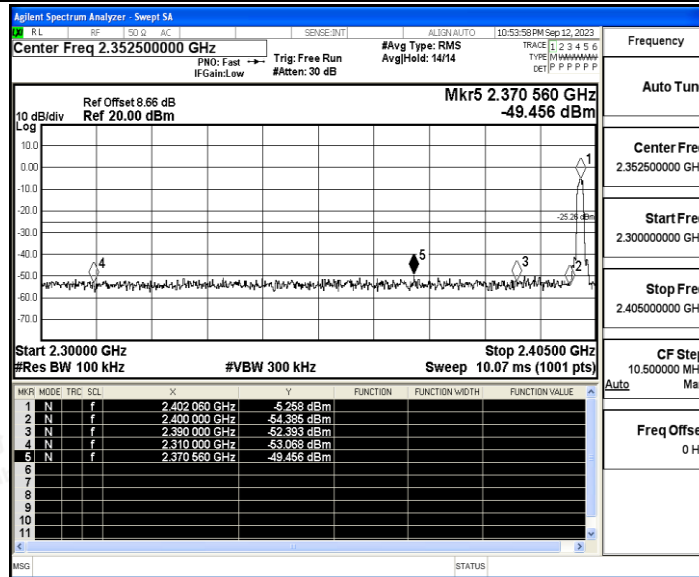


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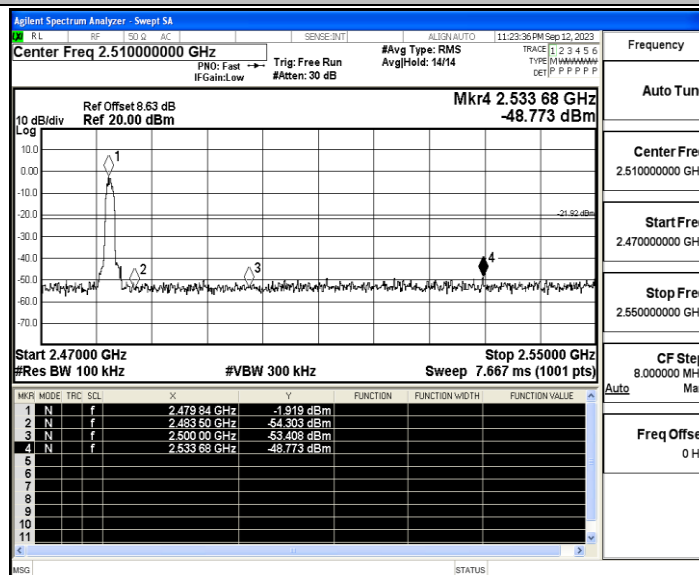
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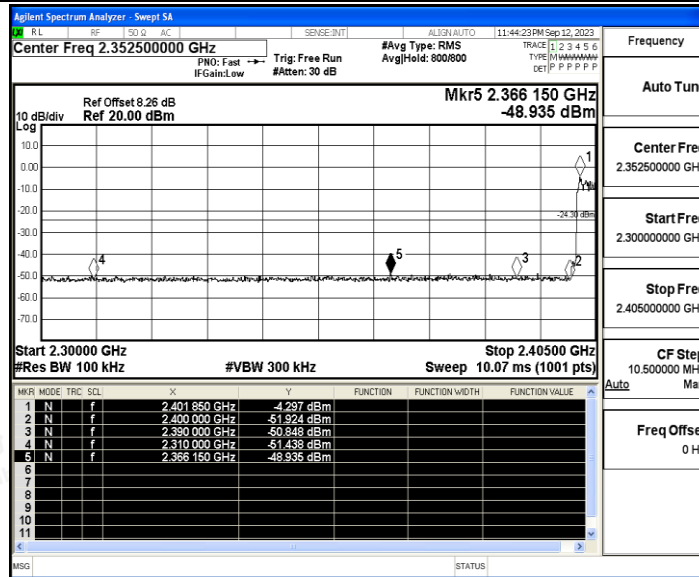


3DH5_Ant1_High_2480

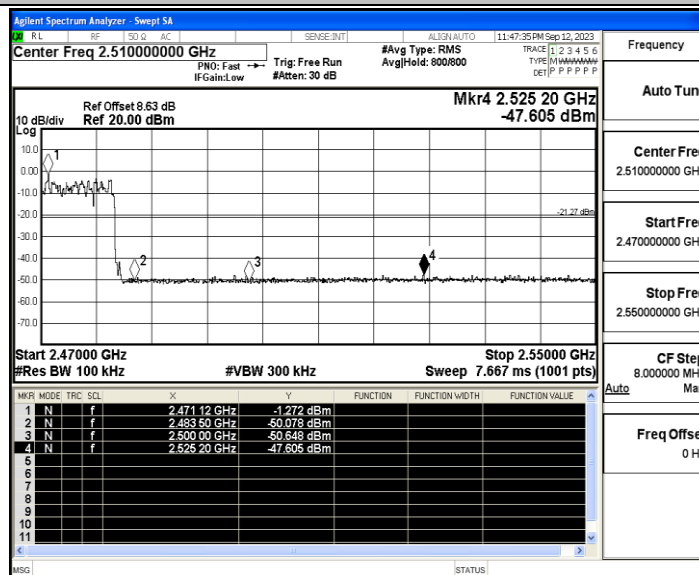


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

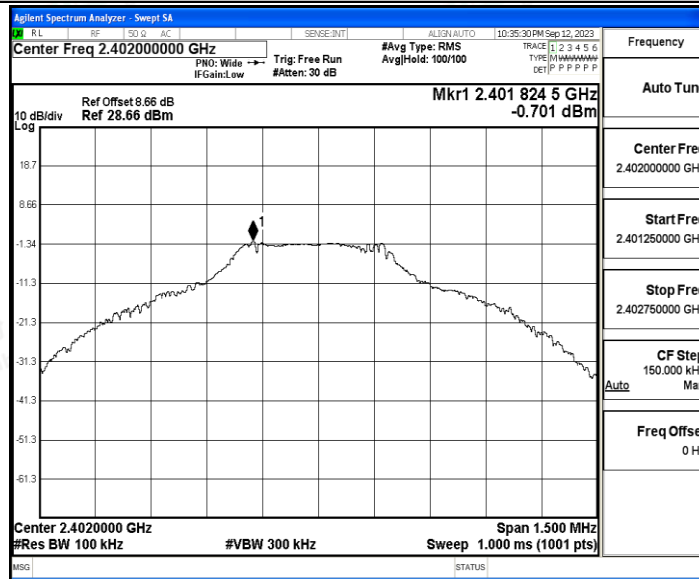
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-72.14	≤ -20.7	PASS
			1000~26500	-0.70	-46.1	≤ -20.7	PASS
		2441	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-61.07	≤ -20.88	PASS
			1000~26500	-0.88	-46.63	≤ -20.88	PASS
		2480	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-60.58	≤ -20.25	PASS
			1000~26500	-0.25	-46.1	≤ -20.25	PASS
2DH5	Ant1	2402	Reference	-4.94	-4.94	---	PASS
			30~1000	-4.94	-60.75	≤ -24.94	PASS
			1000~26500	-4.94	-46.11	≤ -24.94	PASS
		2441	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-60.6	≤ -24.74	PASS
			1000~26500	-4.74	-46.76	≤ -24.74	PASS
		2480	Reference	-4.59	-4.59	---	PASS
			30~1000	-4.59	-60.44	≤ -24.59	PASS
			1000~26500	-4.59	-46.32	≤ -24.59	PASS
3DH5	Ant1	2402	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-60.77	≤ -21.56	PASS
			1000~26500	-1.56	-46.47	≤ -21.56	PASS
		2441	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-61.21	≤ -22.07	PASS
			1000~26500	-2.07	-46.76	≤ -22.07	PASS
		2480	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-60.51	≤ -21.34	PASS
			1000~26500	-1.34	-46.9	≤ -21.34	PASS



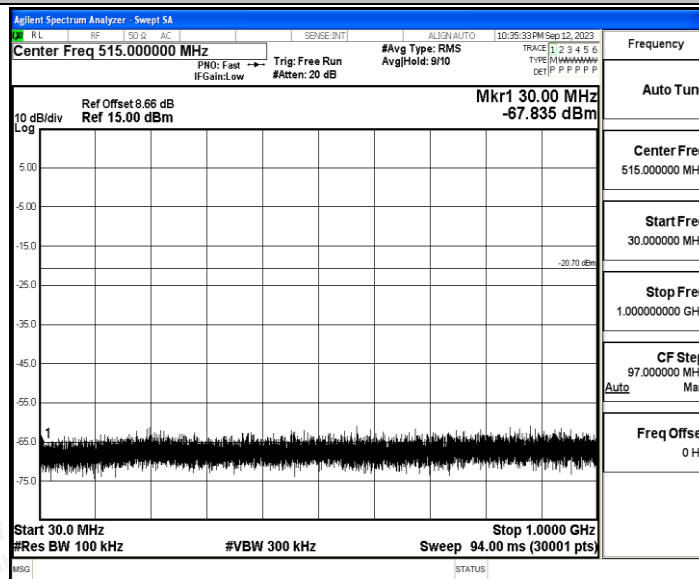


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

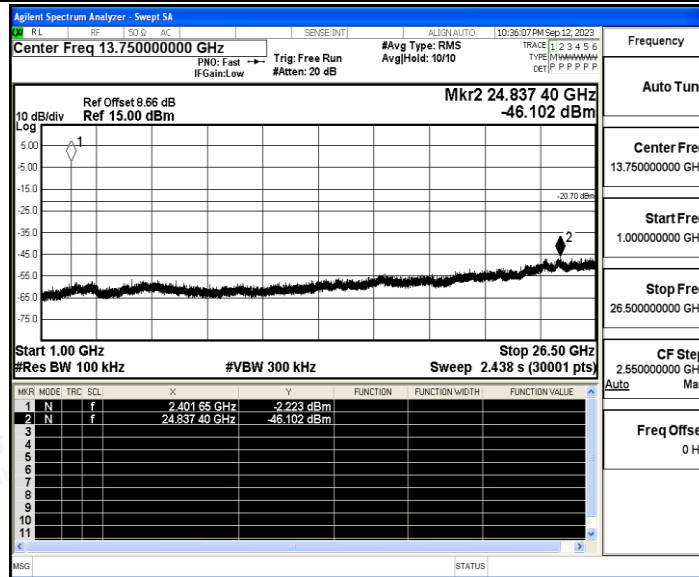


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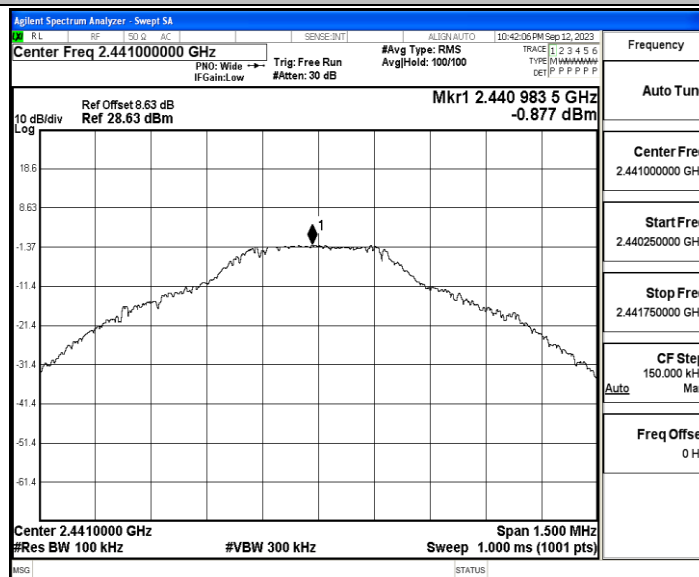
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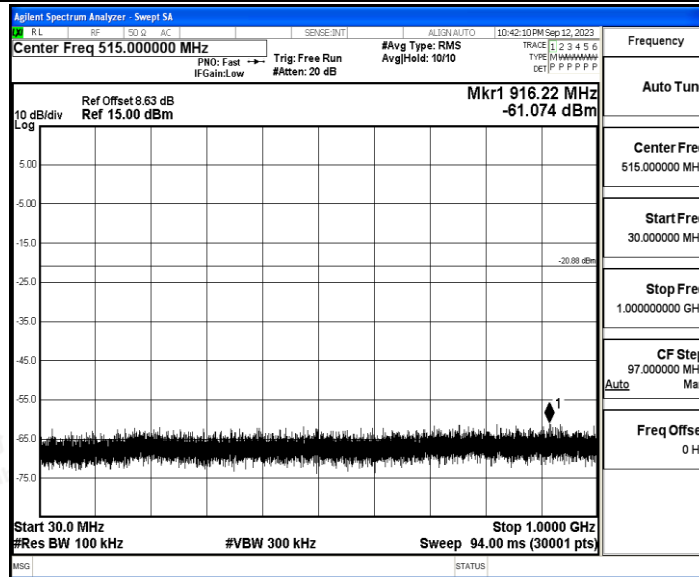


DH5_Ant1_2441_0~Reference

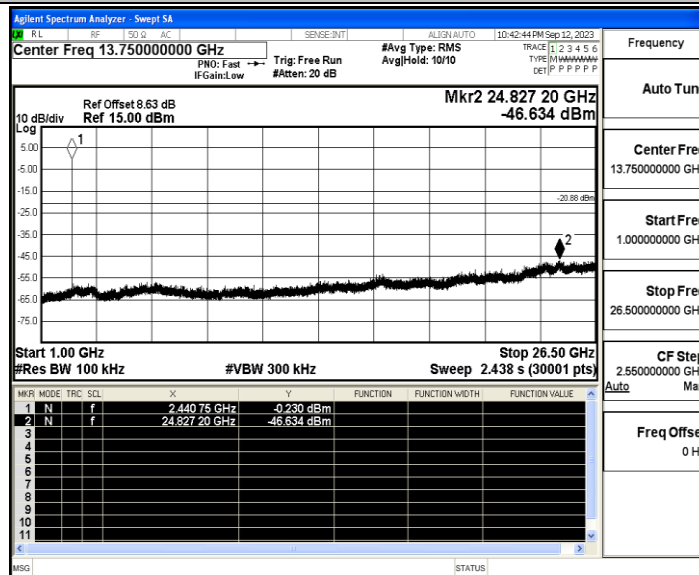


DH5_Ant1_2441_30~1000



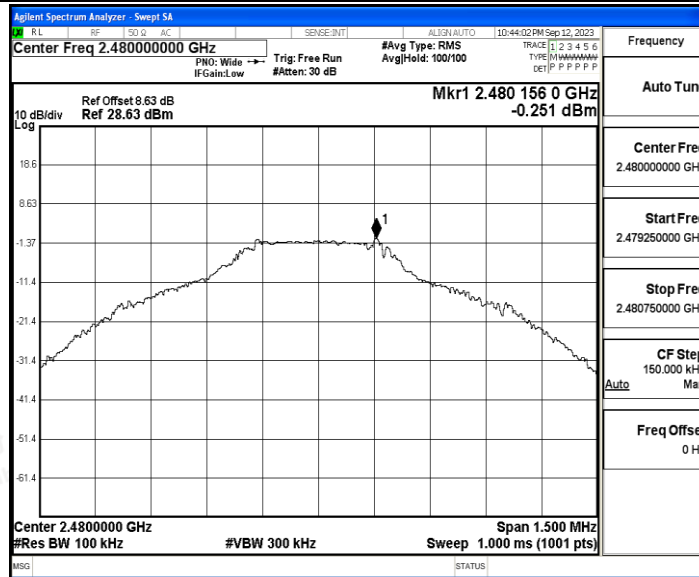


DH5_Ant1_2441_1000~26500

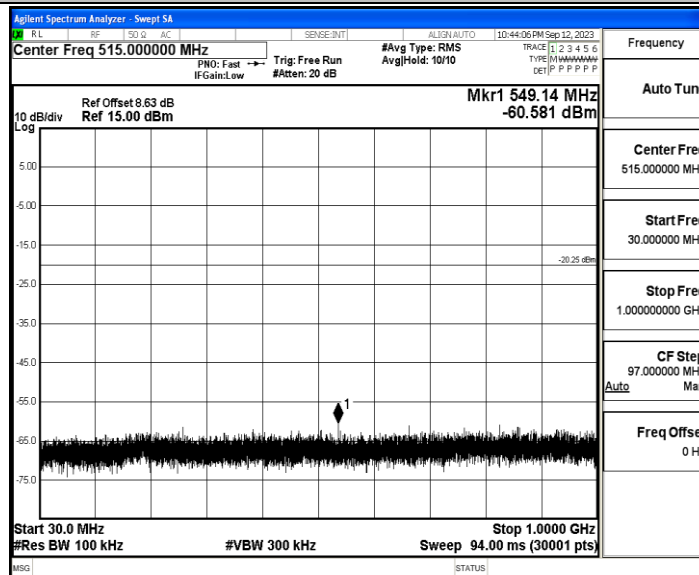


DH5_Ant1_2480_0~Reference



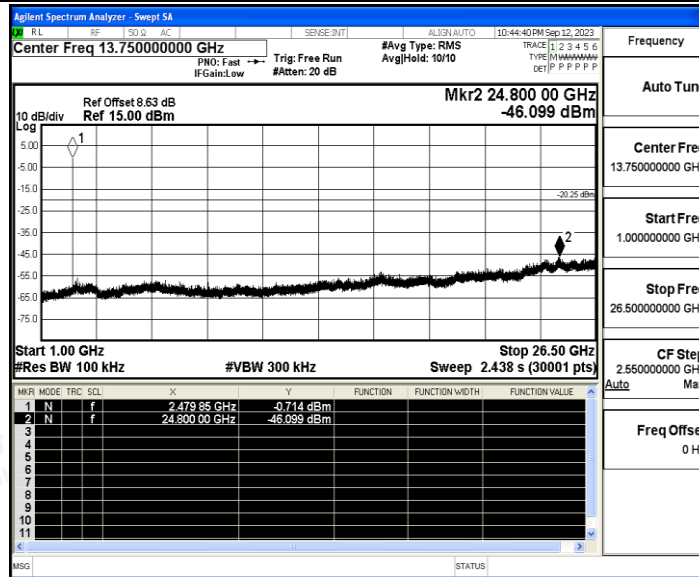


DH5_Ant1_2480_30~1000

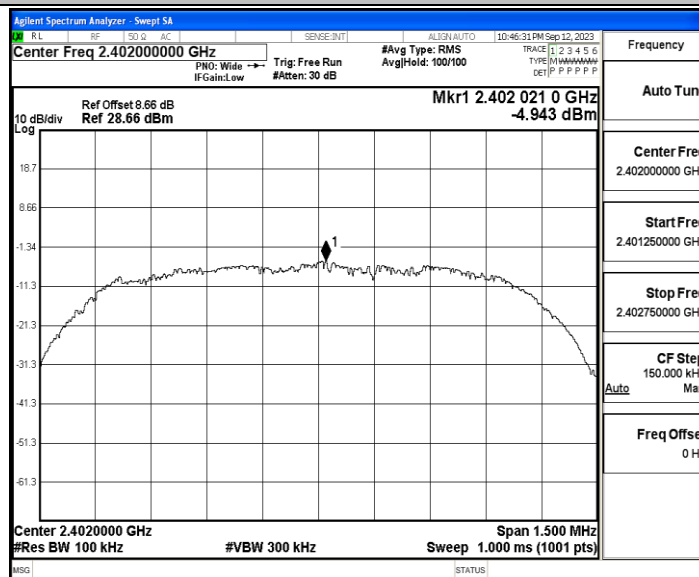


DH5_Ant1_2480_1000~26500



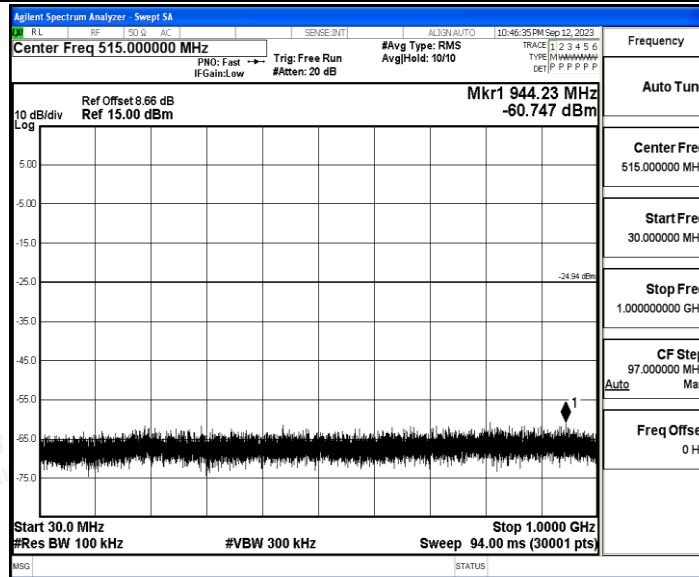


2DH5_Ant1_2402_0~Reference

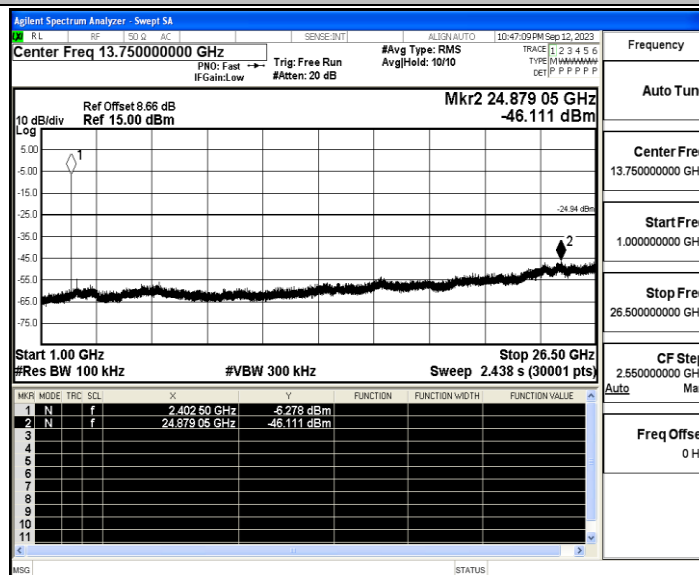


2DH5_Ant1_2402_30~1000



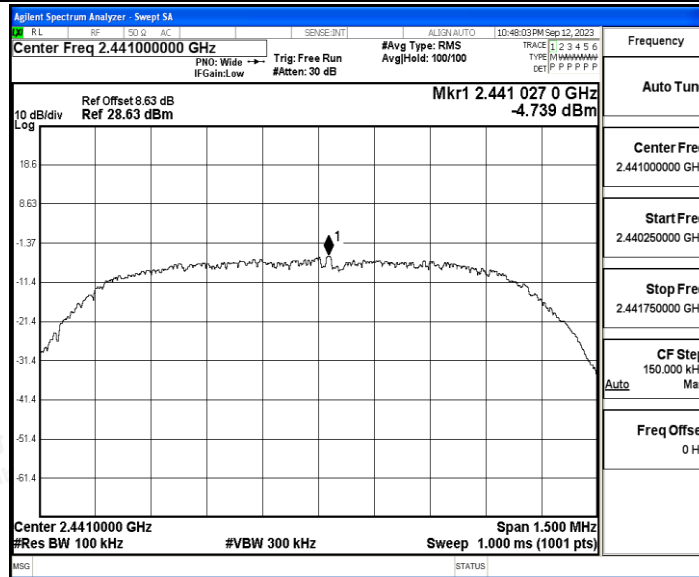


2DH5_Ant1_2402_1000~26500

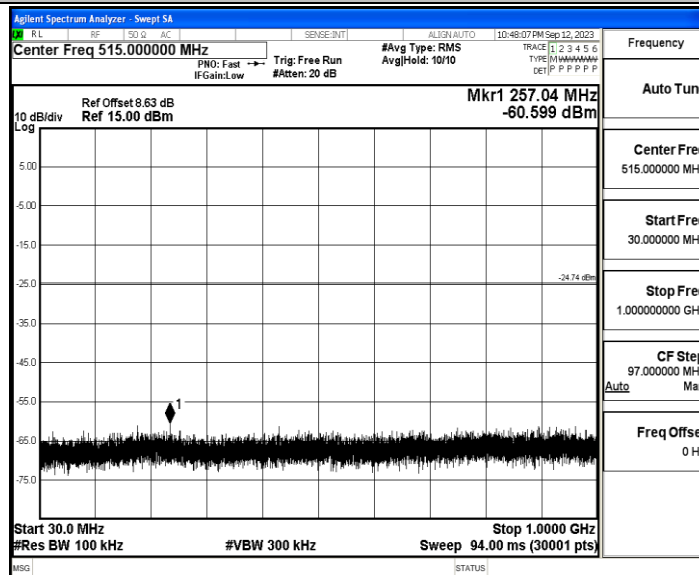


2DH5_Ant1_2441_0-Reference



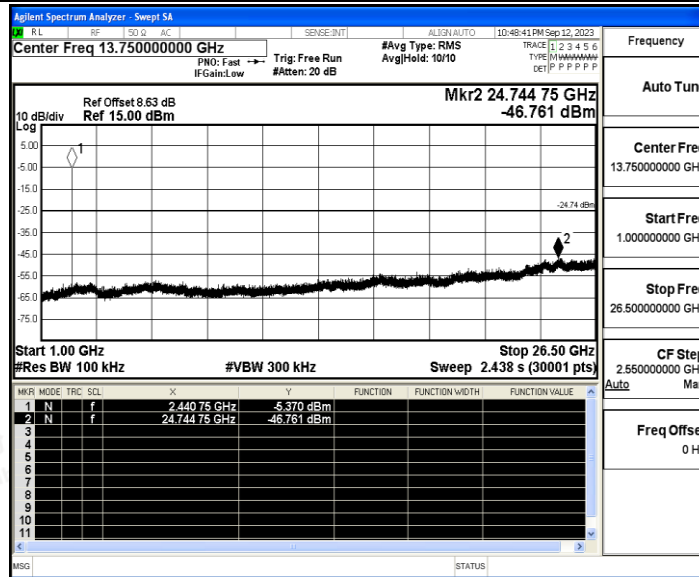


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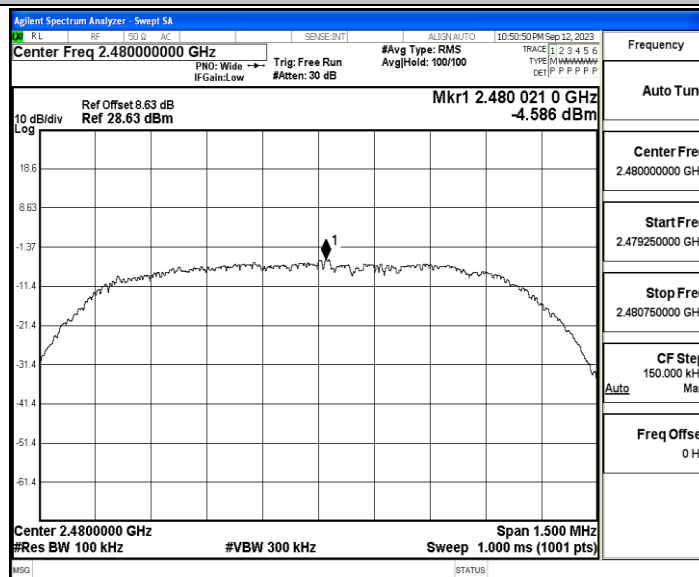


2DH5_Ant1_2441_1000~26500



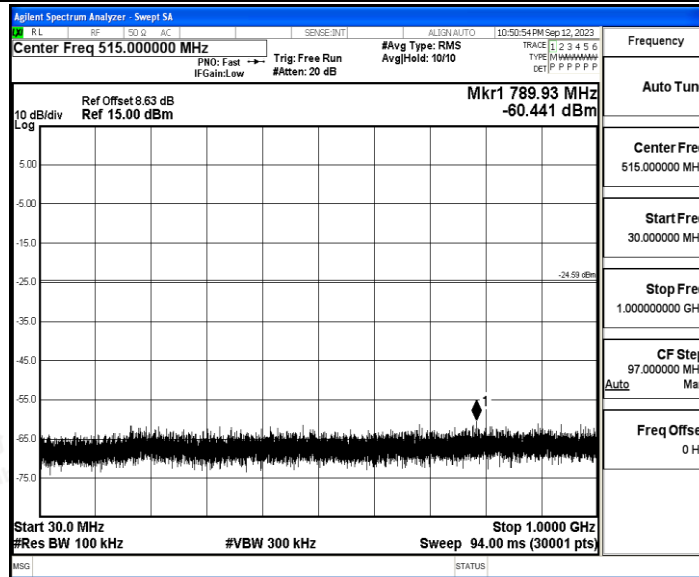


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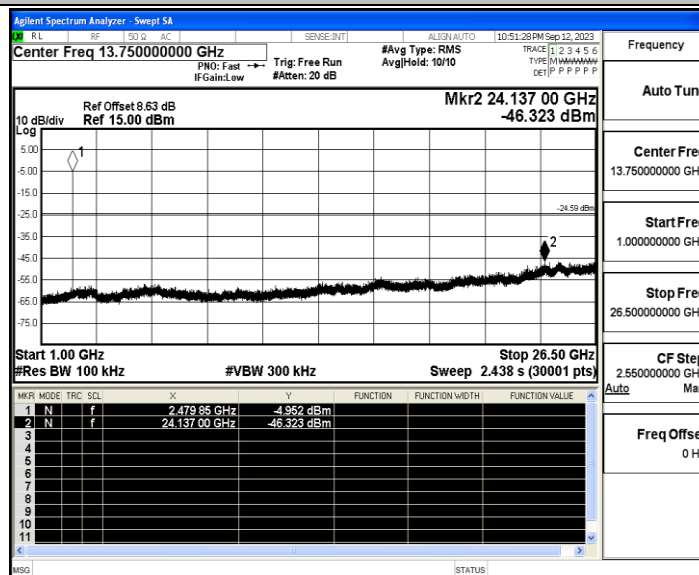


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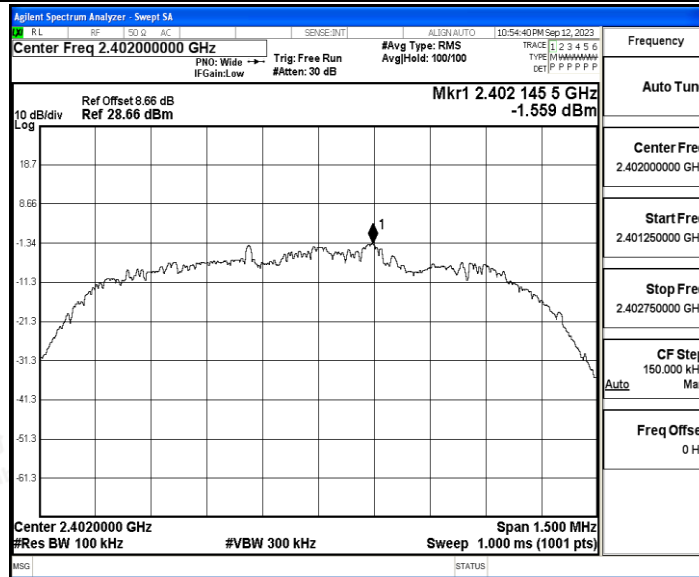


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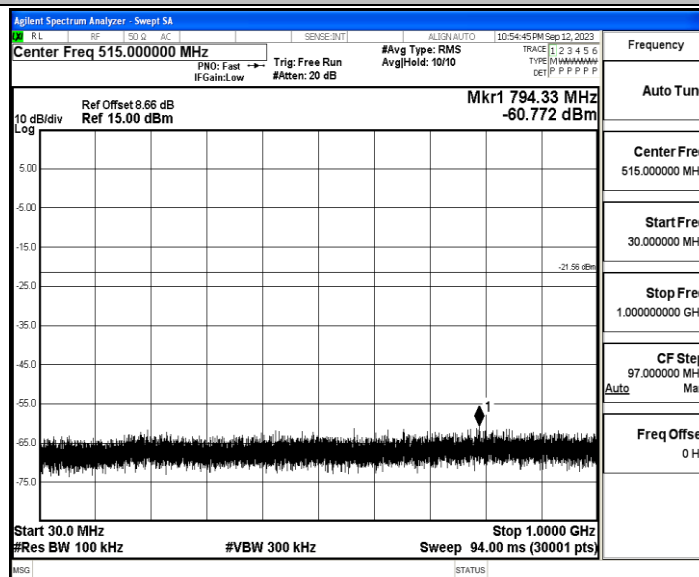


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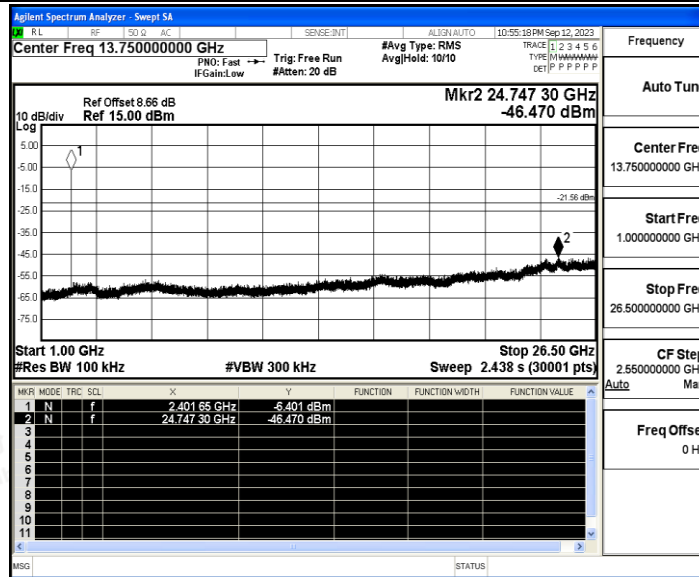


3DH5_Ant1_2402_30~1000

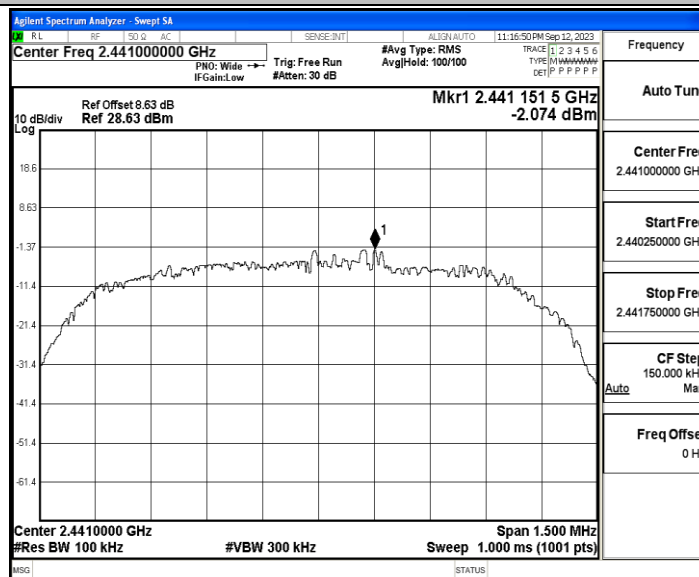


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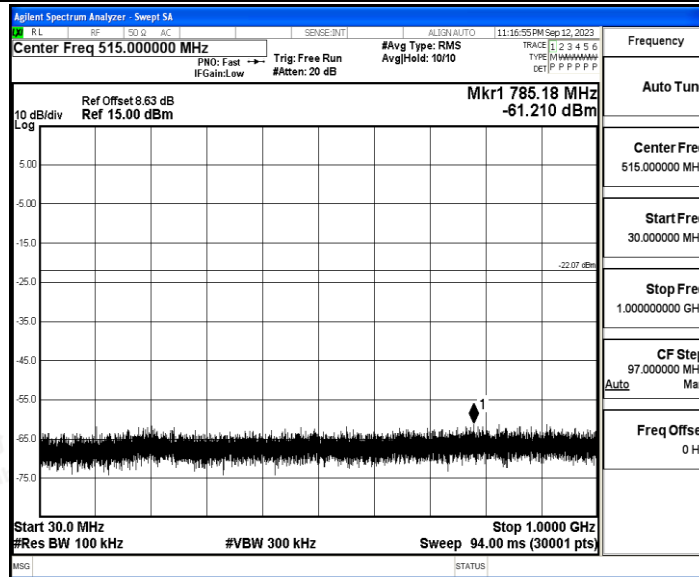


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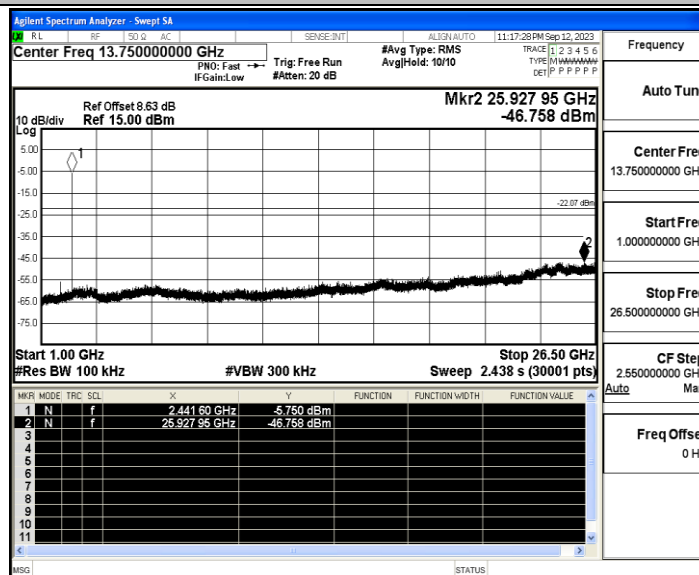


3DH5_Ant1_2441_30~1000





3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0-Reference

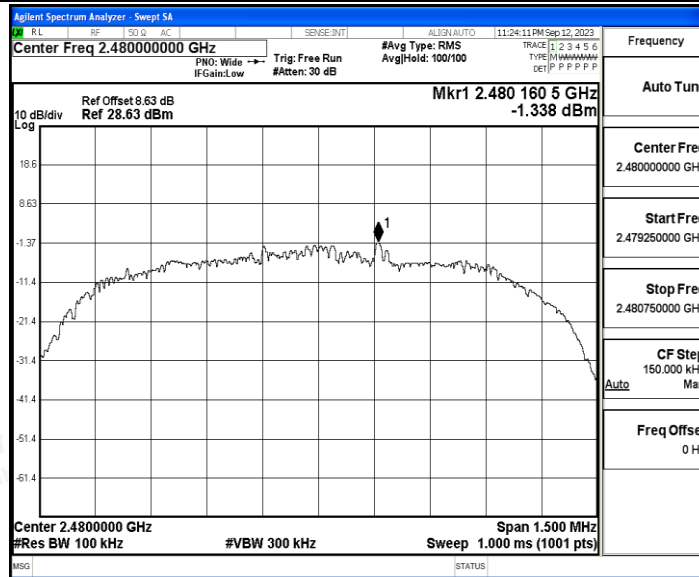


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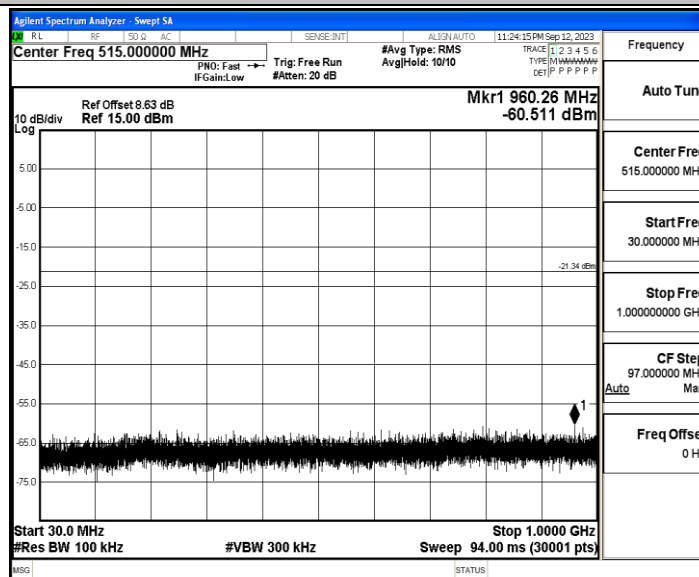
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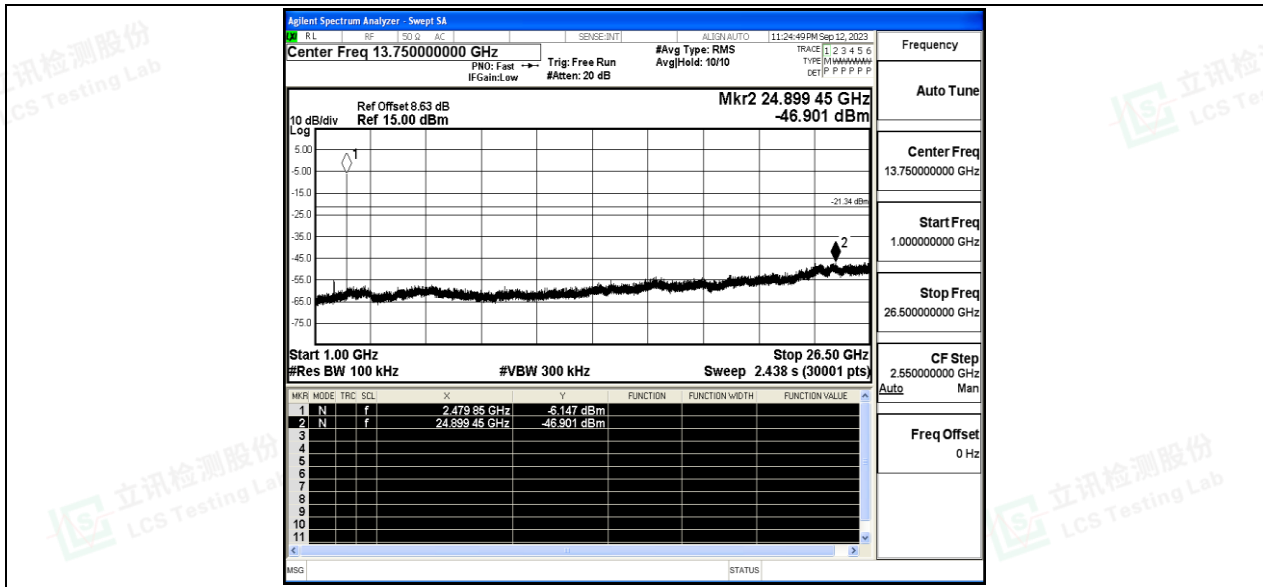


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2385.470	-47.59	≤-41.20	47.61	≤54	PASS
				AV	2390.000	-47.78	≤-41.20	47.42	≤54	PASS
				Peak	2310.000	-41.94	≤-21.20	53.26	≤74	PASS
				Peak	2339.060	-38.67	≤-21.20	56.53	≤74	PASS
				Peak	2390.000	-43.7	≤-21.20	51.50	≤74	PASS
		High	2480	AV	2483.500	-47.17	≤-41.20	48.03	≤54	PASS
				AV	2498.160	-47.08	≤-41.20	48.12	≤54	PASS
				AV	2500.000	-47.14	≤-41.20	48.06	≤54	PASS
				Peak	2483.500	-41.35	≤-21.20	53.85	≤74	PASS
				Peak	2495.040	-38.29	≤-21.20	56.91	≤74	PASS
				Peak	2500.000	-43.45	≤-21.20	51.75	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-39.22	≤-21.20	55.98	≤74	PASS
				Peak	2384.945	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2390.000	-39.38	≤-21.20	55.82	≤74	PASS
		High	Hop_2480	Peak	2483.500	-37.91	≤-21.20	57.29	≤74	PASS
				Peak	2489.840	-37.22	≤-21.20	57.98	≤74	PASS
				Peak	2500.000	-38.28	≤-21.20	56.92	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2388.305	-47.59	≤-41.20	47.61	≤54	PASS
				AV	2390.000	-47.7	≤-41.20	47.50	≤54	PASS
				Peak	2310.000	-43.33	≤-21.20	51.87	≤74	PASS
				Peak	2355.440	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-41.63	≤-21.20	53.57	≤74	PASS
		High	2480	AV	2483.500	-47.17	≤-41.20	48.03	≤54	PASS
				AV	2490.000	-47.06	≤-41.20	48.14	≤54	PASS
				AV	2500.000	-47.23	≤-41.20	47.97	≤54	PASS
				Peak	2483.500	-42.31	≤-21.20	52.89	≤74	PASS
				Peak	2486.160	-37.86	≤-21.20	57.34	≤74	PASS
				Peak	2500.000	-41.12	≤-21.20	54.08	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.32	≤-21.20	54.88	≤74	PASS
				Peak	2320.265	-37.3	≤-21.20	57.90	≤74	PASS
				Peak	2390.000	-40.28	≤-21.20	54.92	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2488.080	-36.59	≤-21.20	58.61	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-39.32	≤ -21.20	55.88	≤ 74	PASS
				AV	2310.000	-48.11	≤ -41.20	47.09	≤ 54	PASS
				AV	2389.670	-47.56	≤ -41.20	47.64	≤ 54	PASS
				AV	2390.000	-47.77	≤ -41.20	47.43	≤ 54	PASS
				Peak	2310.000	-42.52	≤ -21.20	52.68	≤ 74	PASS
				Peak	2385.470	-38.68	≤ -21.20	56.52	≤ 74	PASS
				Peak	2390.000	-43.97	≤ -21.20	51.23	≤ 74	PASS
		High	2480	AV	2483.500	-47.26	≤ -41.20	47.94	≤ 54	PASS
				AV	2499.120	-47.06	≤ -41.20	48.14	≤ 54	PASS
				AV	2500.000	-47.14	≤ -41.20	48.06	≤ 54	PASS
				Peak	2483.500	-42.81	≤ -21.20	52.39	≤ 74	PASS
				Peak	2490.800	-37.61	≤ -21.20	57.59	≤ 74	PASS
				Peak	2500.000	-40.27	≤ -21.20	54.93	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.56	≤ -21.20	54.64	≤ 74	PASS
				Peak	2375.075	-37.22	≤ -21.20	57.98	≤ 74	PASS
				Peak	2390.000	-40.27	≤ -21.20	54.93	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-38.13	≤ -21.20	57.07	≤ 74	PASS
				Peak	2496.480	-37.06	≤ -21.20	58.14	≤ 74	PASS
				Peak	2500.000	-38.51	≤ -21.20	56.69	≤ 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

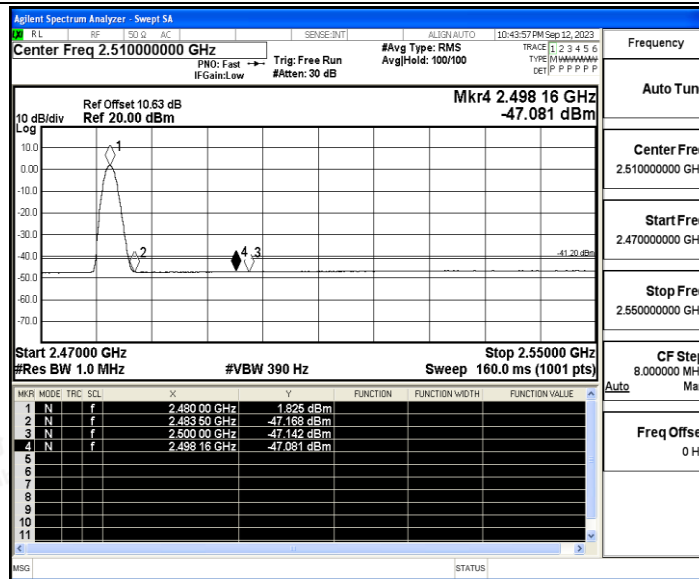


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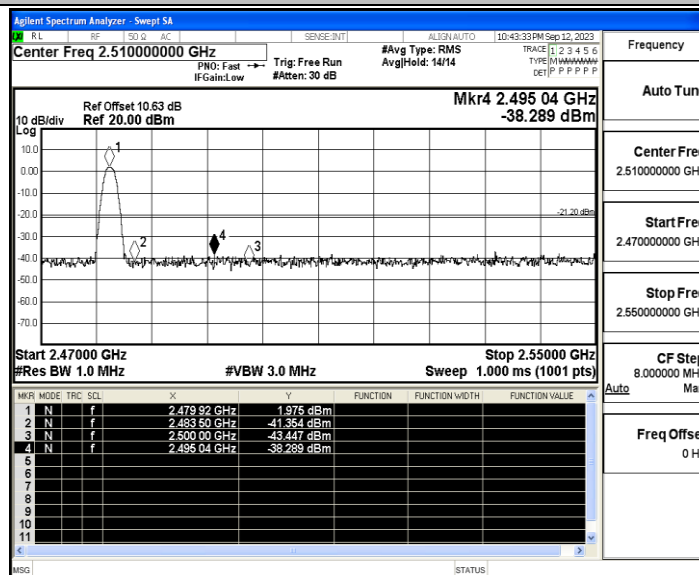
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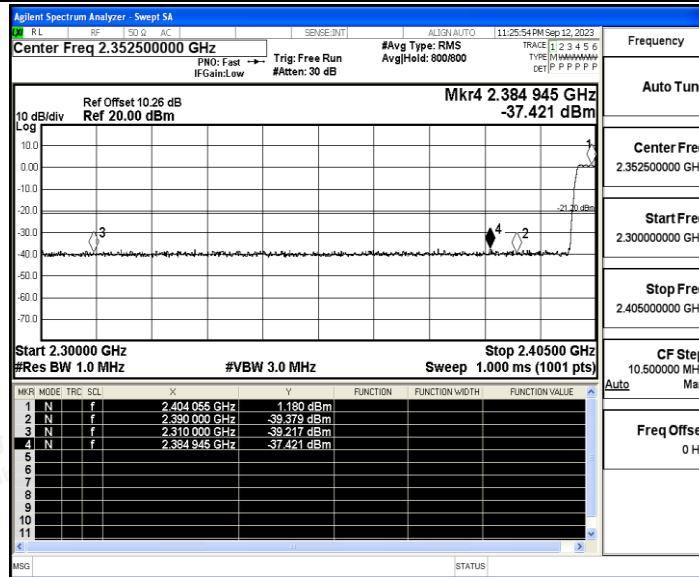


DH5_Ant1_High_2480_Peak

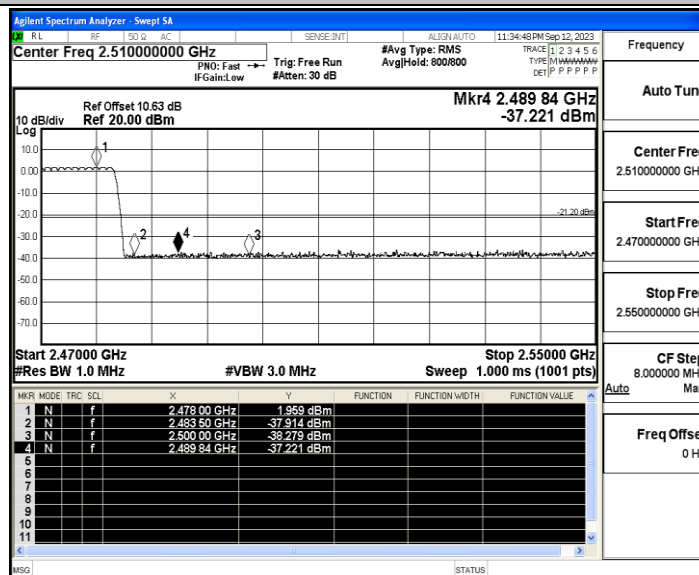


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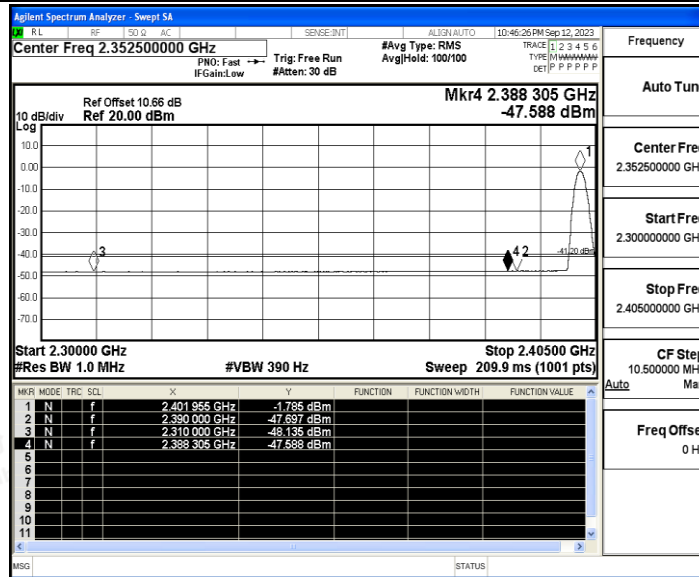


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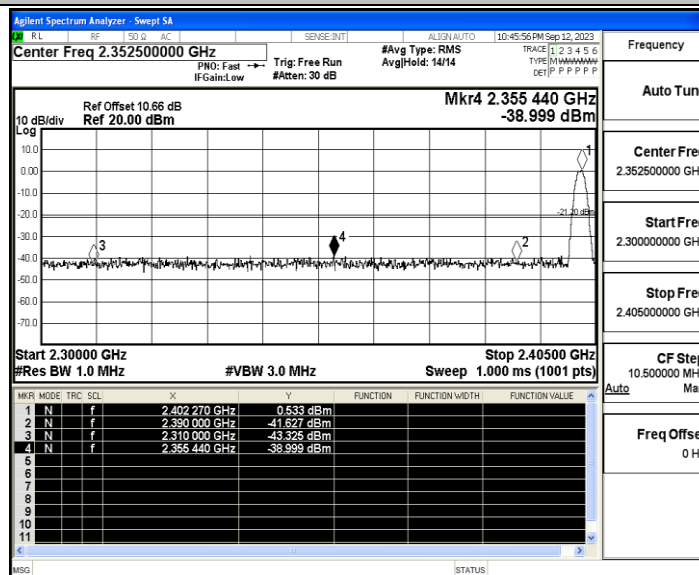


2DH5_Ant1_Low_2402_AV





2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

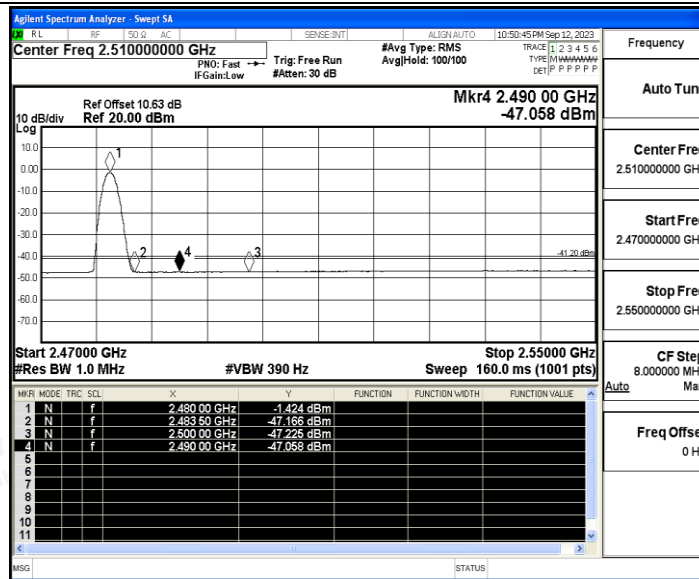


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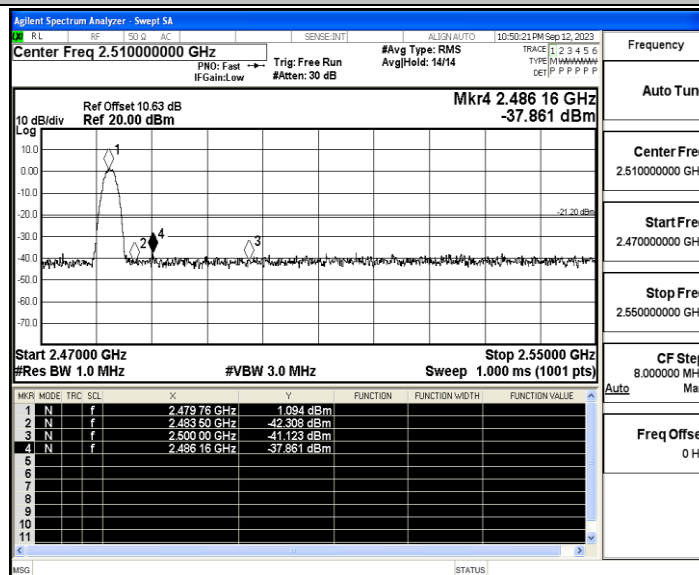
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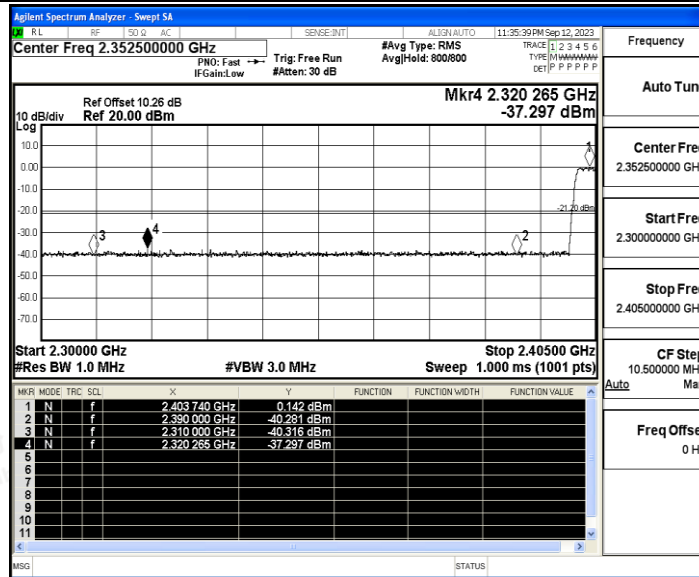


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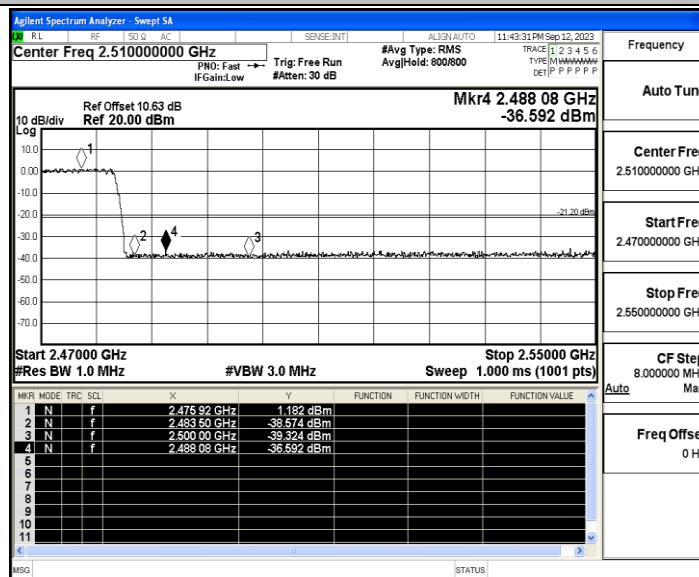


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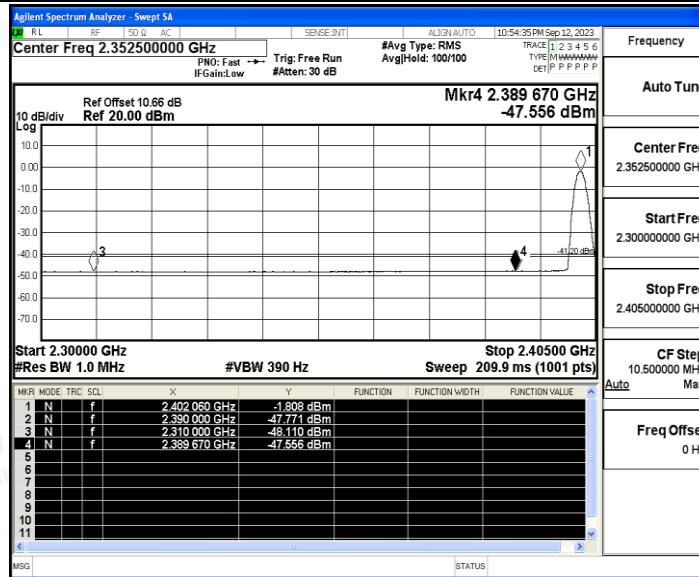


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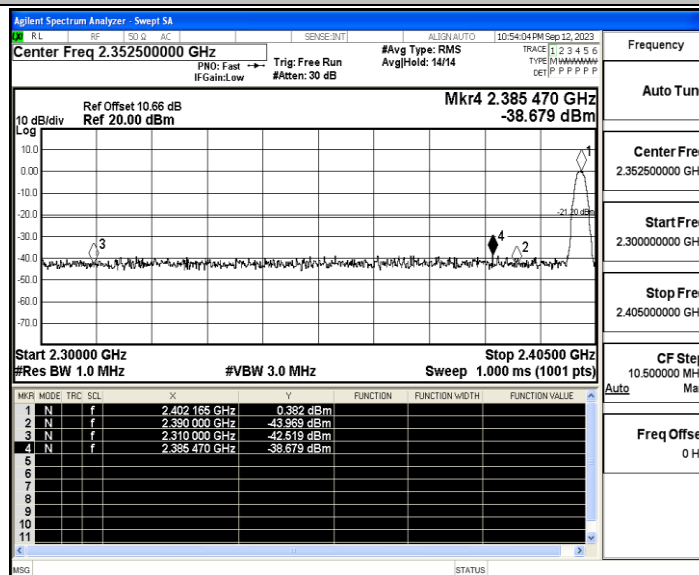


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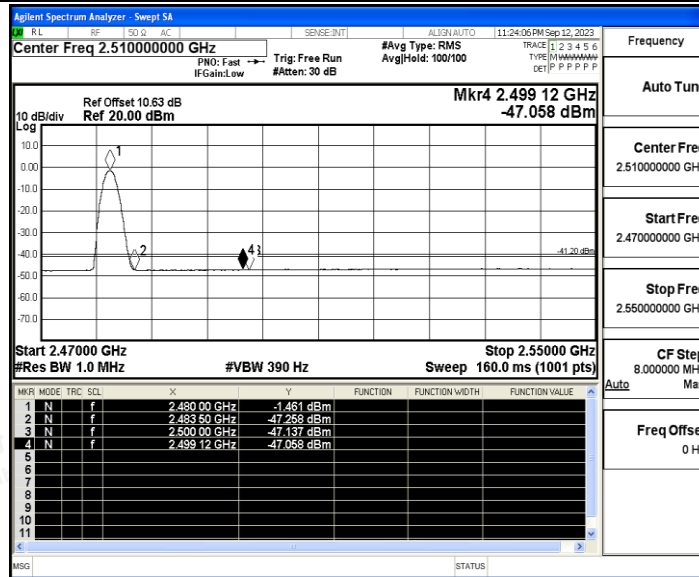


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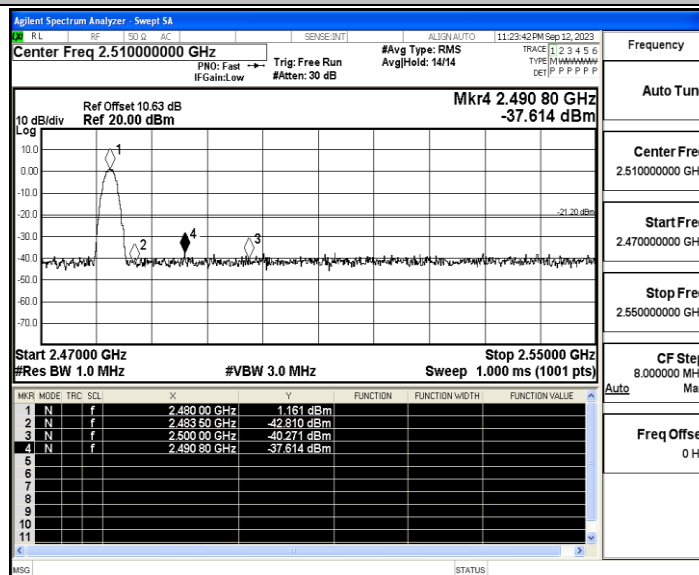


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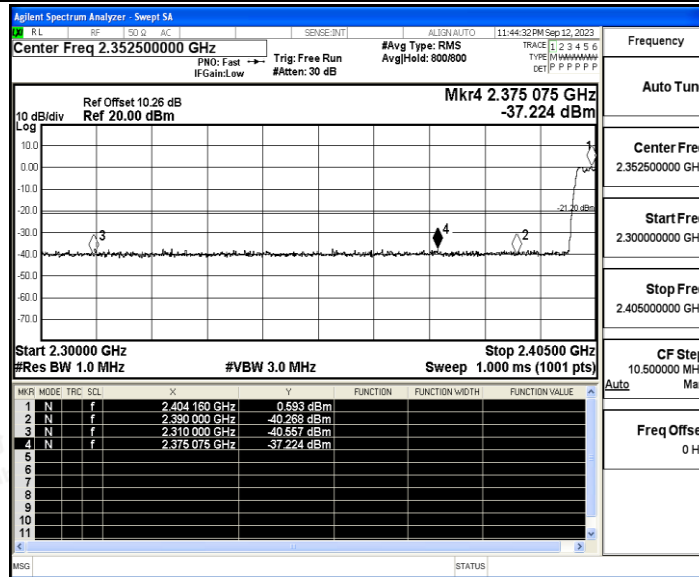


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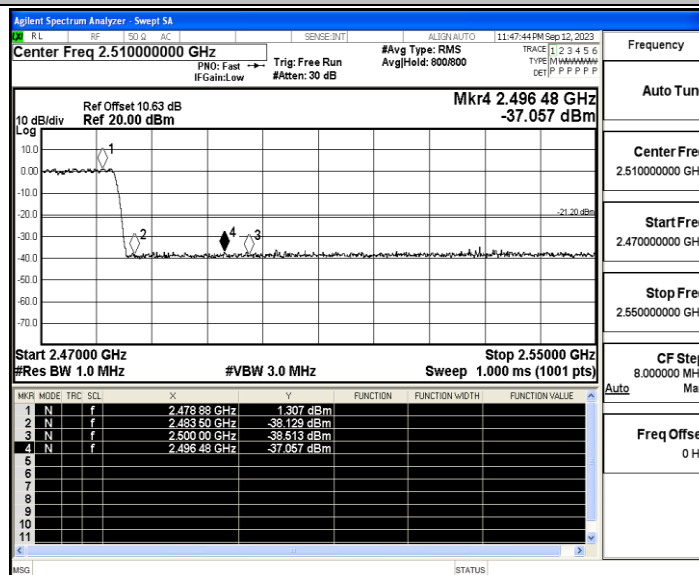


3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak



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