



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Handheld Controller

Test Model: iHand55

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
	Nick Peng
Supervised by:	Ling Zhu
	Ling Zhu





A.1 20dB Emission Bandwidth

Test Result

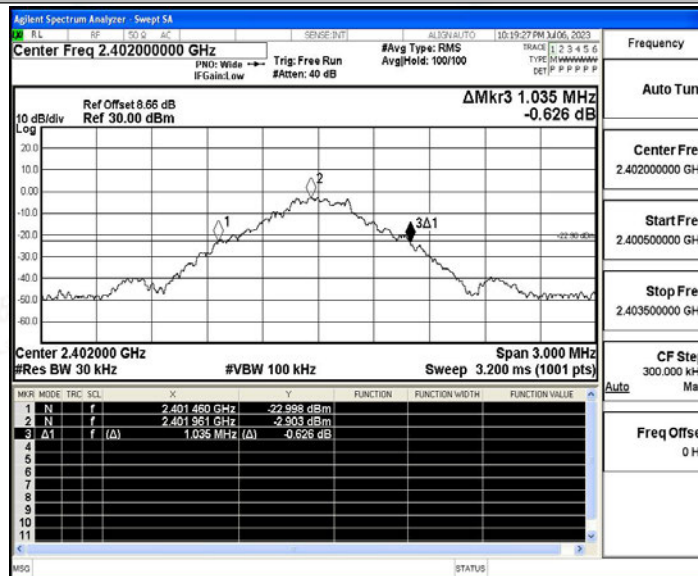
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.460	2402.495	---	---
		2441	0.960	2440.514	2441.474	---	---
		2480	0.966	2479.514	2480.480	---	---
2DH5	Ant1	2402	1.284	2401.352	2402.636	---	---
		2441	1.293	2440.349	2441.642	---	---
		2480	1.326	2479.322	2480.648	---	---
3DH5	Ant1	2402	1.317	2401.328	2402.645	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.308	2479.337	2480.645	---	---



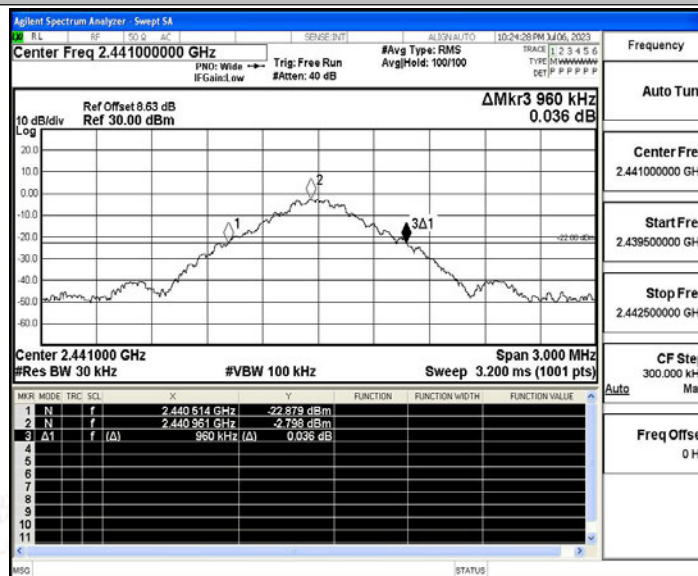


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

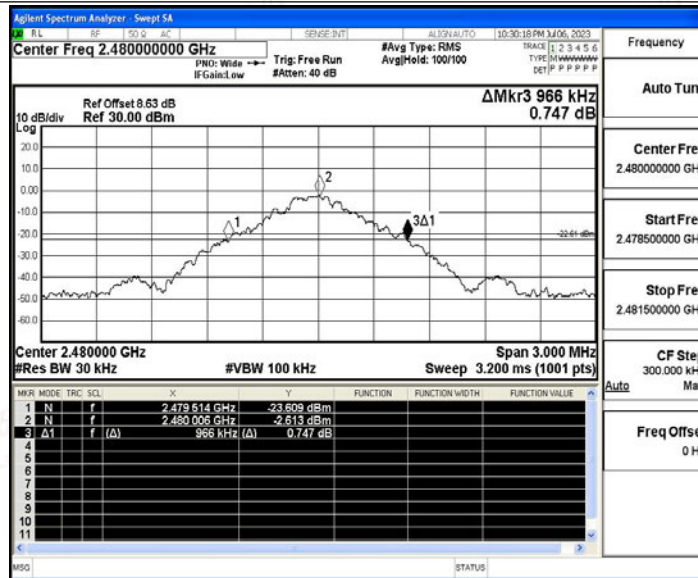


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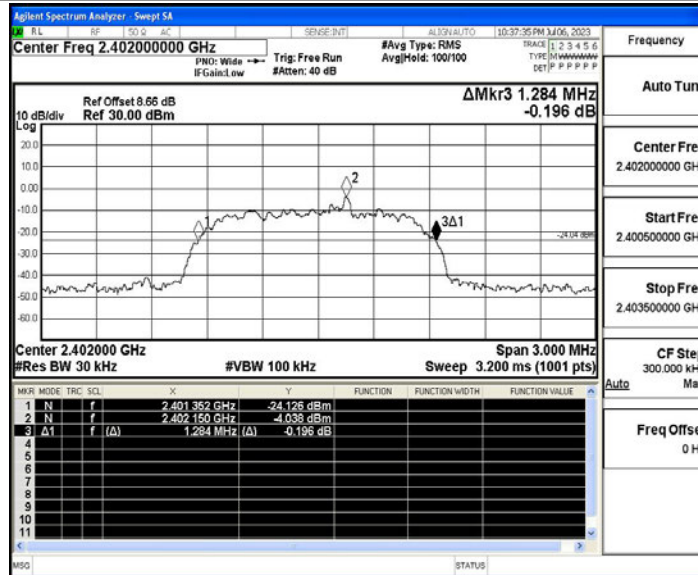
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2DH5_Ant1_2402



2DH5_Ant1_2441

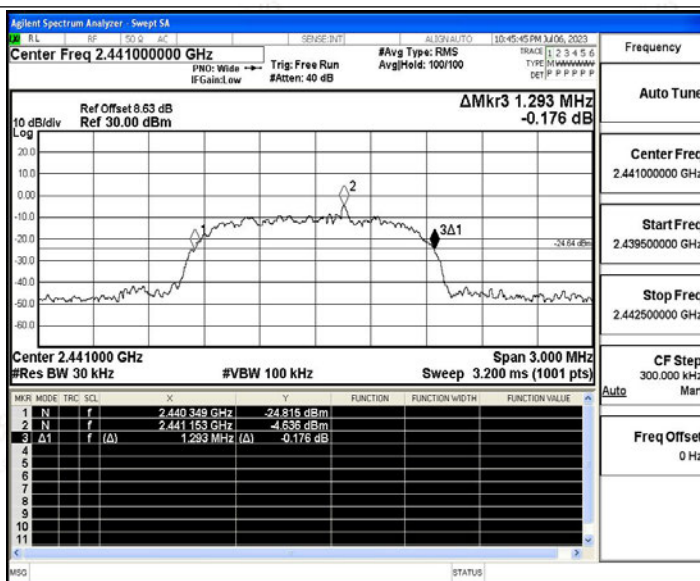


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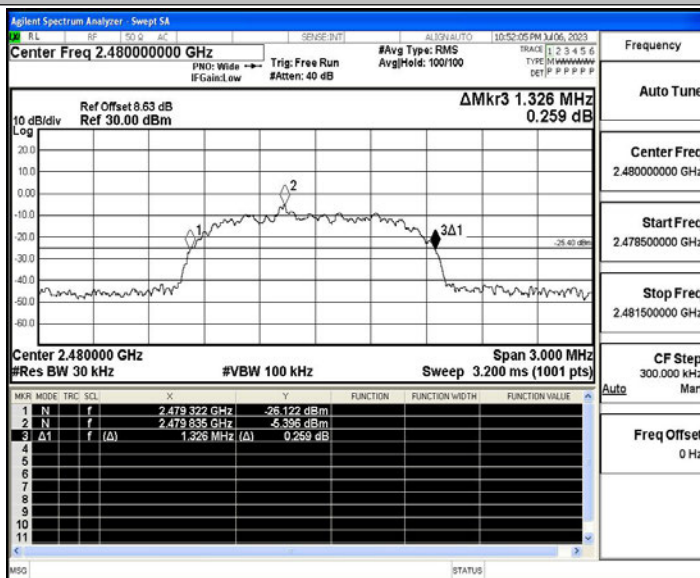
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2DH5_Ant1_2480



3DH5_Ant1_2402

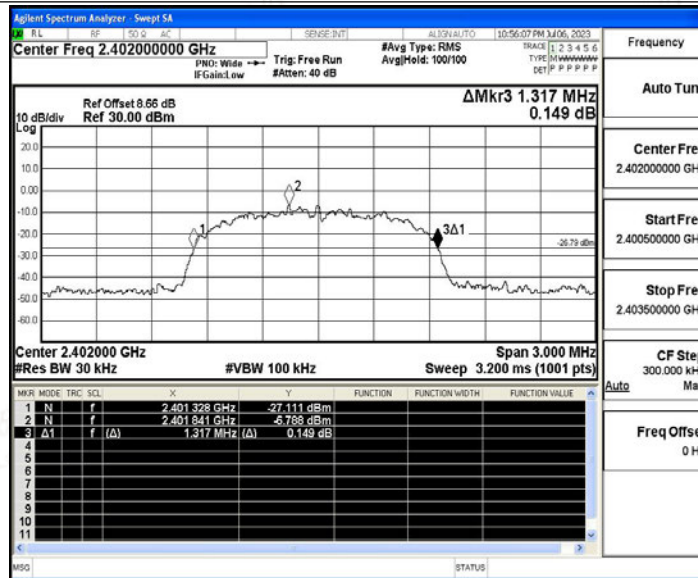


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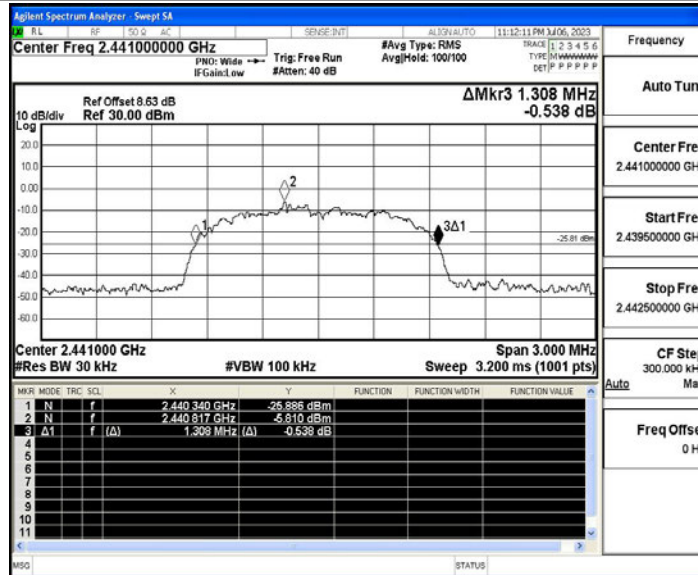
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3DH5_Ant1_2441



3DH5_Ant1_2480

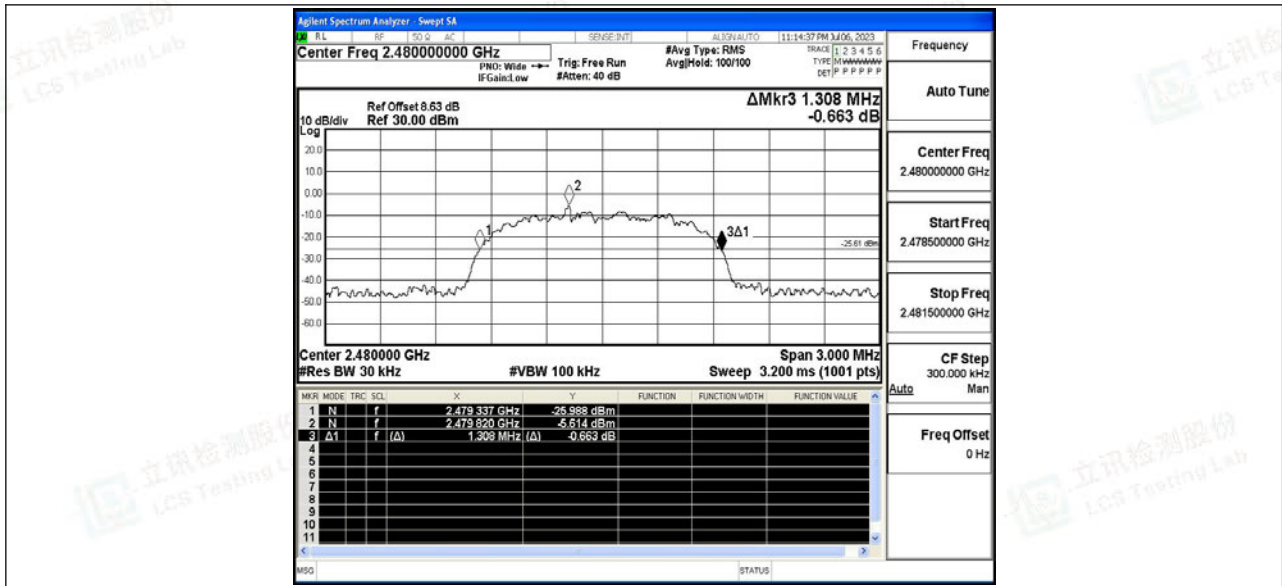


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A.2 Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.23	≤20.97	PASS
		2441	0.35	≤20.97	PASS
		2480	0.51	≤20.97	PASS
2DH5	Ant1	2402	0.04	≤20.97	PASS
		2441	-0.02	≤20.97	PASS
		2480	0.35	≤20.97	PASS
3DH5	Ant1	2402	0.08	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.32	≤20.97	PASS



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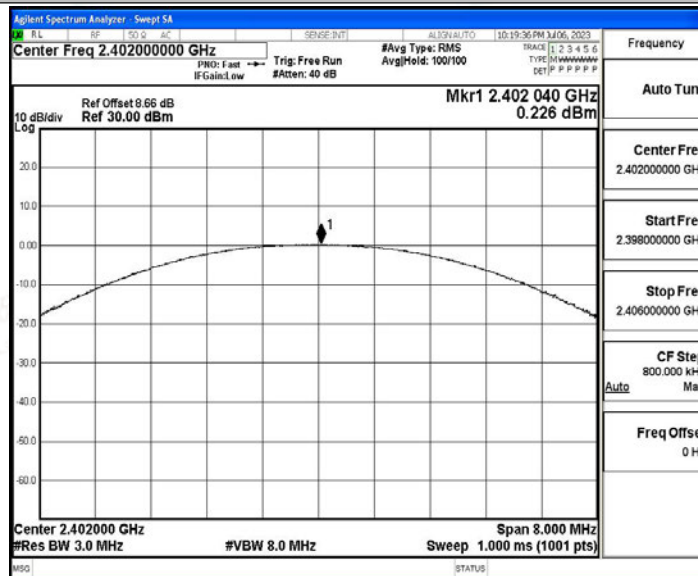
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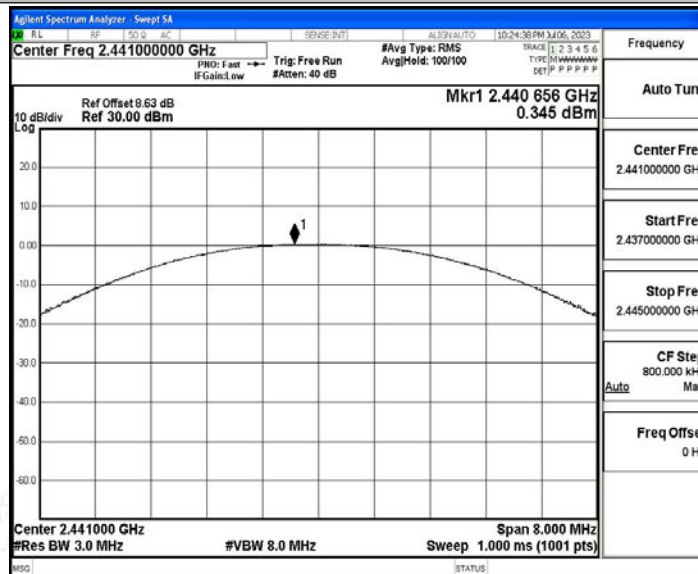


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

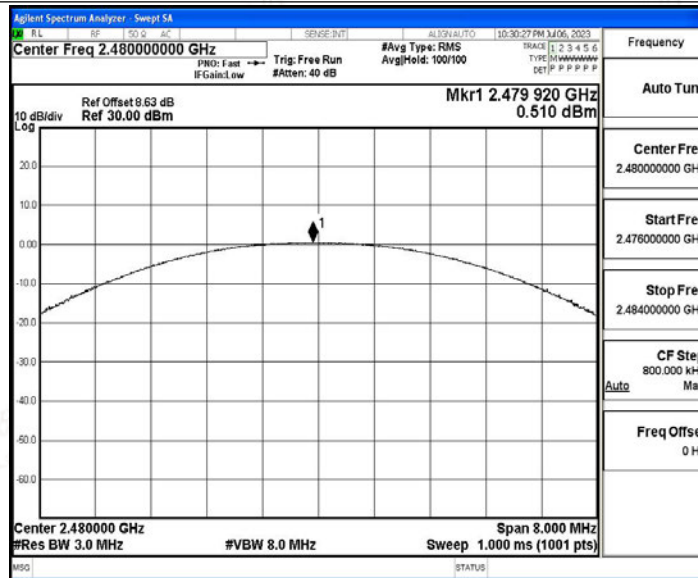


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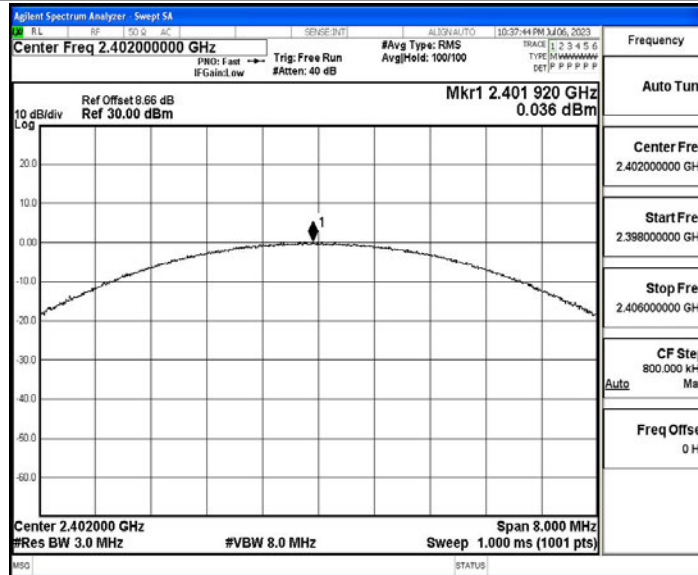
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2DH5_Ant1_2402



2DH5_Ant1_2441

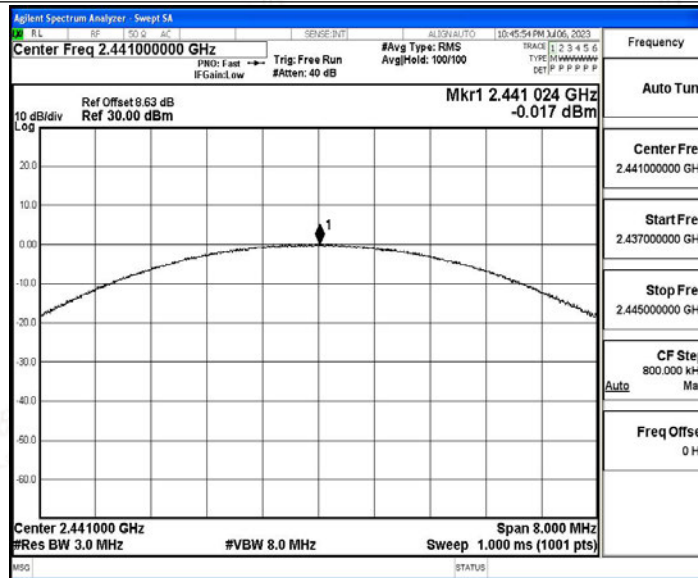


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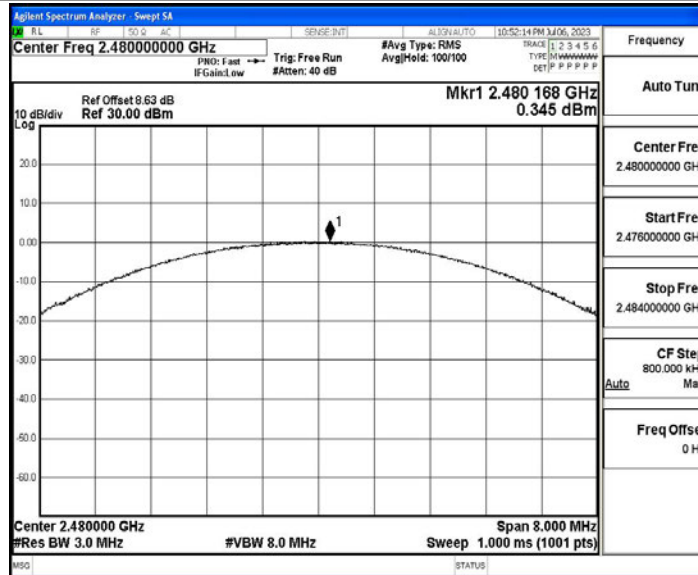
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2DH5_Ant1_2480



3DH5_Ant1_2402

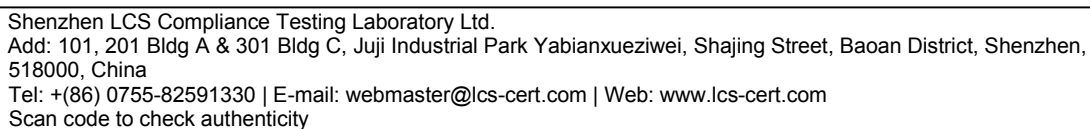
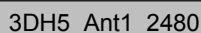


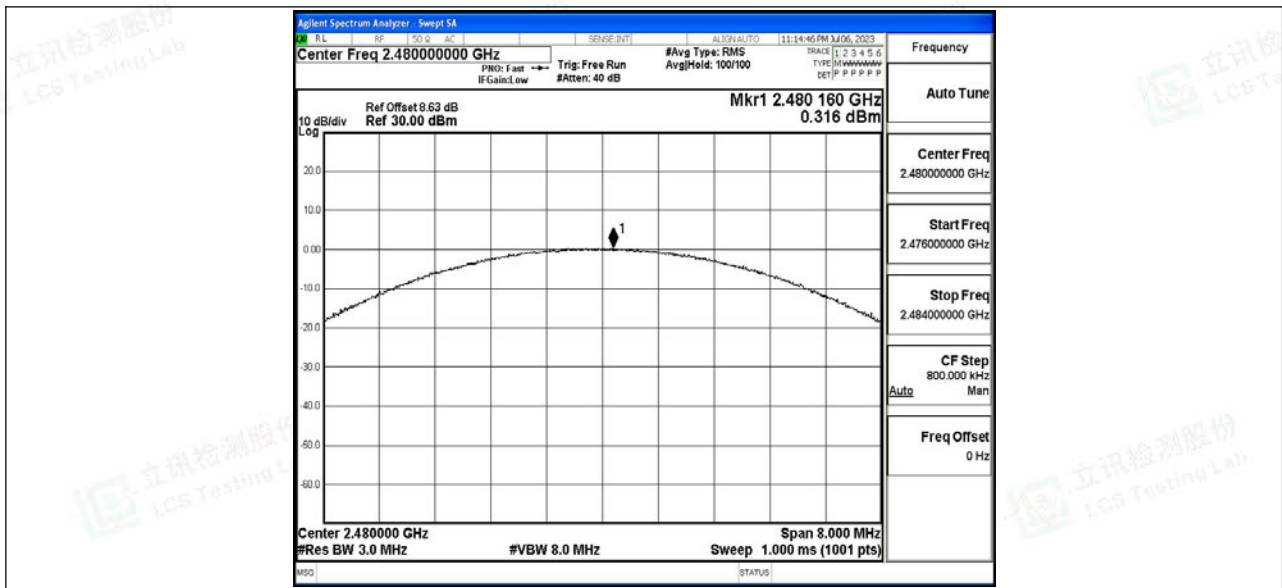
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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.690	PASS
2DH5	Ant1	Hop	1.338	≥ 0.884	PASS
3DH5	Ant1	Hop	1.074	≥ 0.878	PASS



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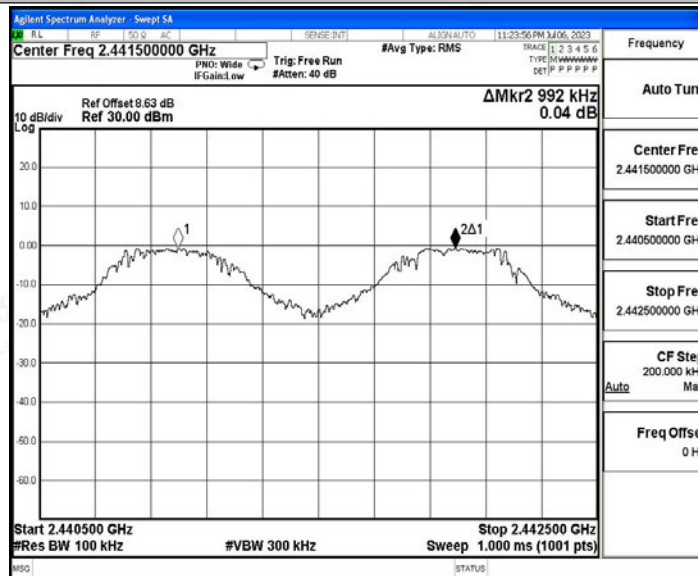
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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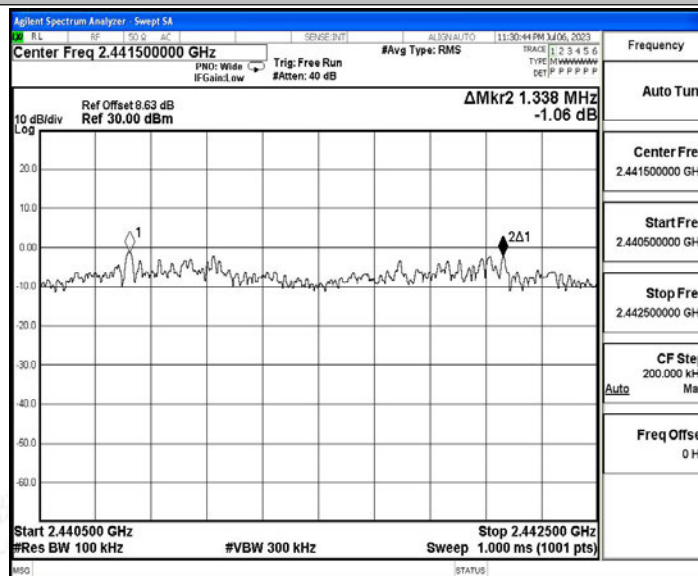


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

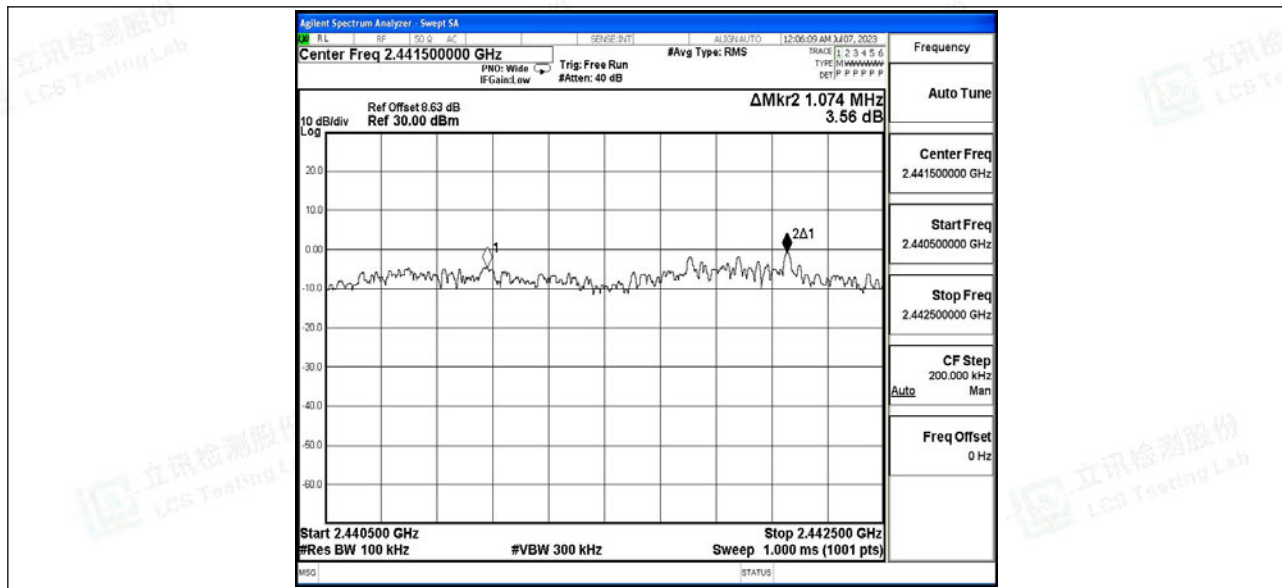


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A.4 Time of occupancy

Test Result

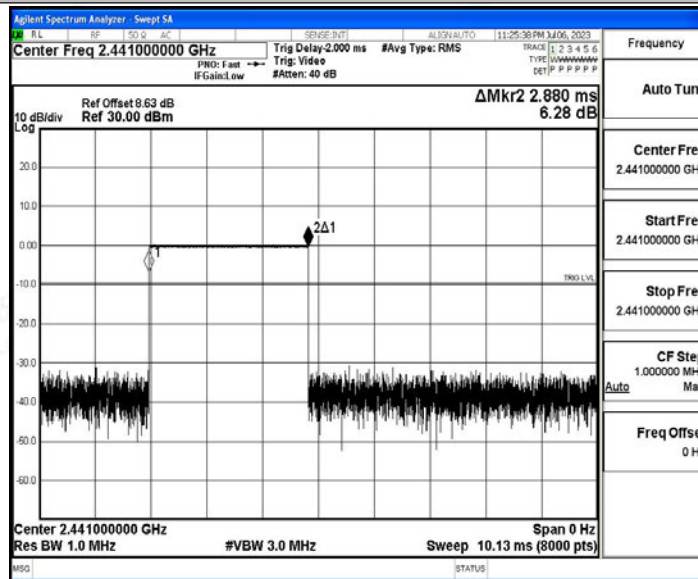
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS



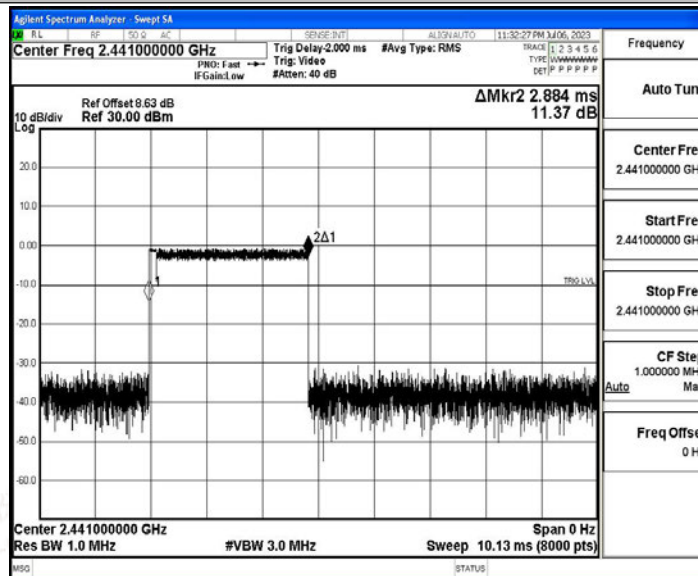


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

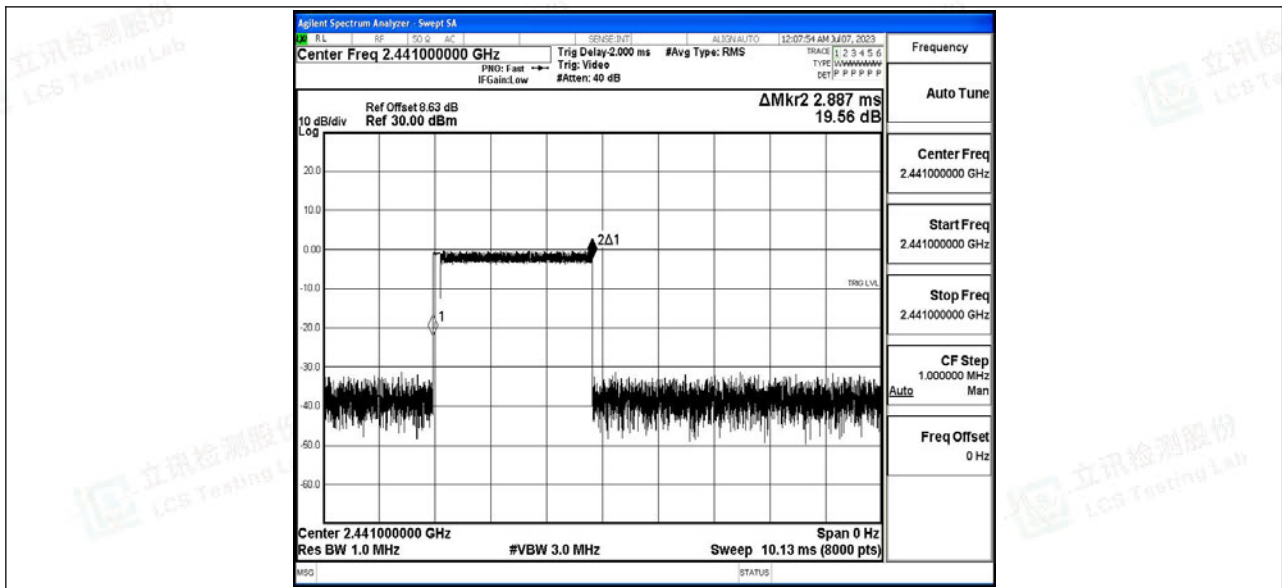


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A.5 Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	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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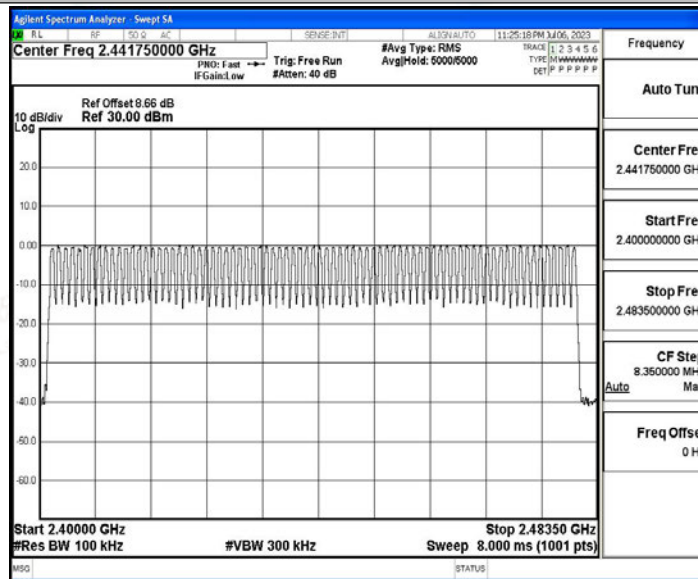
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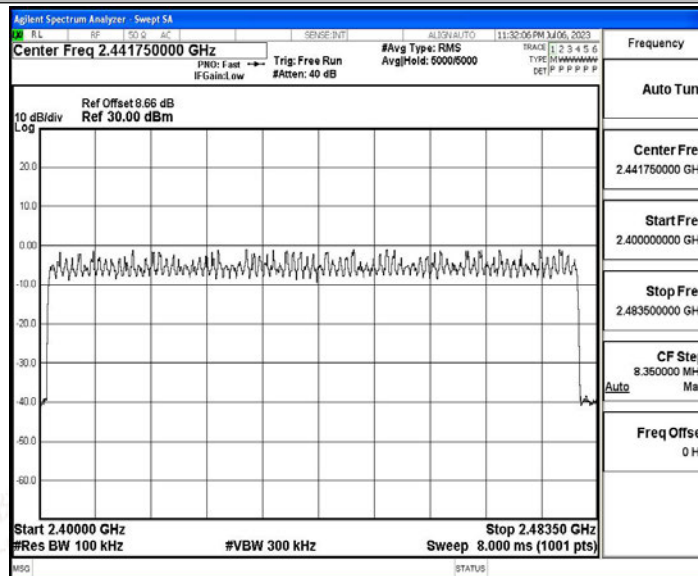


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

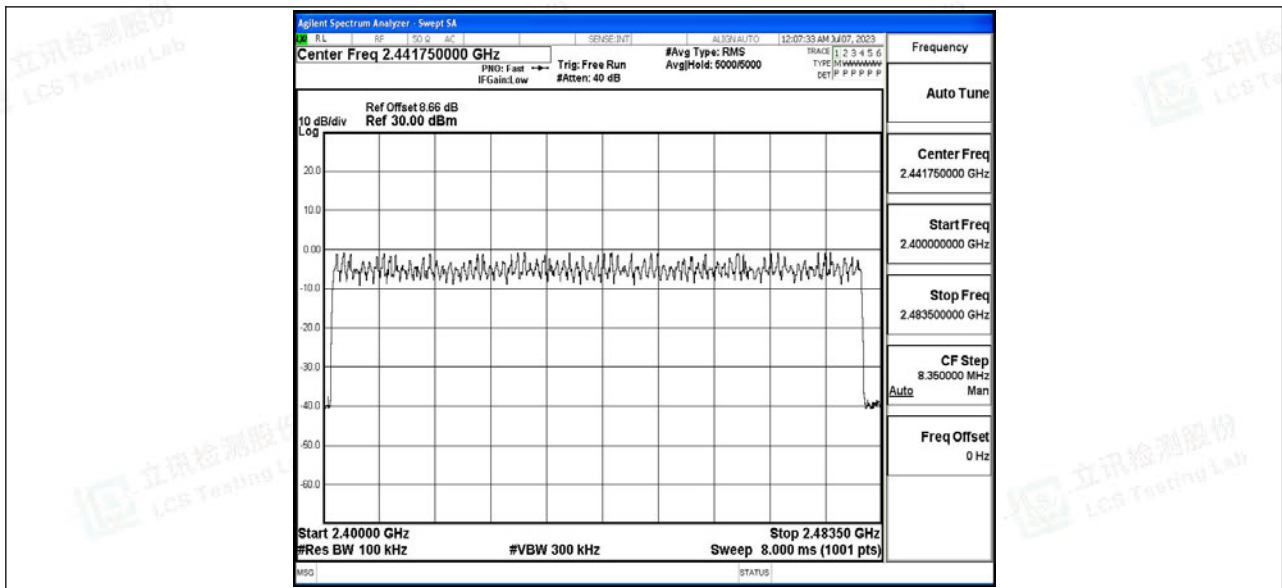


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A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-49.03	≤ -20.54	PASS
		High	2480	-0.45	-49.31	≤ -20.45	PASS
		Low	Hop_2402	-1.05	-49.11	≤ -21.05	PASS
		High	Hop_2480	-0.03	-47.96	≤ -20.03	PASS
2DH5	Ant1	Low	2402	-5.09	-50.45	≤ -25.09	PASS
		High	2480	-4.56	-48.76	≤ -24.56	PASS
		Low	Hop_2402	-2.24	-49.48	≤ -22.24	PASS
		High	Hop_2480	-3.22	-47.87	≤ -23.22	PASS
3DH5	Ant1	Low	2402	-3.91	-49.29	≤ -23.91	PASS
		High	2480	-4.81	-48	≤ -24.81	PASS
		Low	Hop_2402	-3.88	-48.71	≤ -23.88	PASS
		High	Hop_2480	-1.24	-48.08	≤ -21.24	PASS



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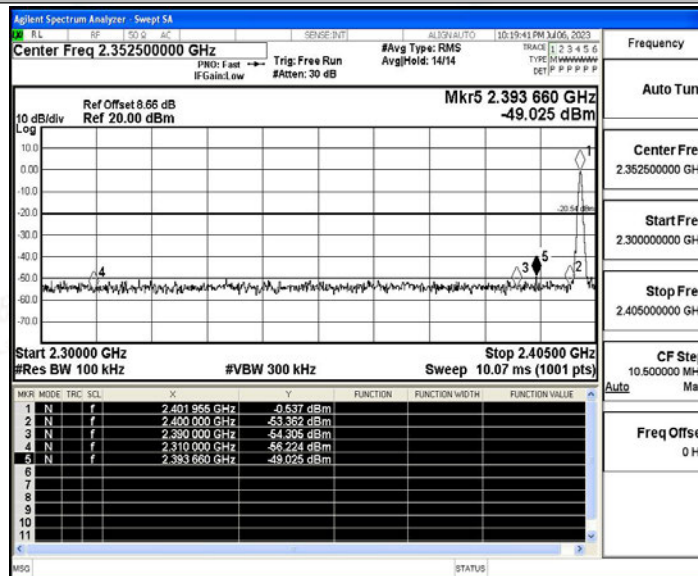
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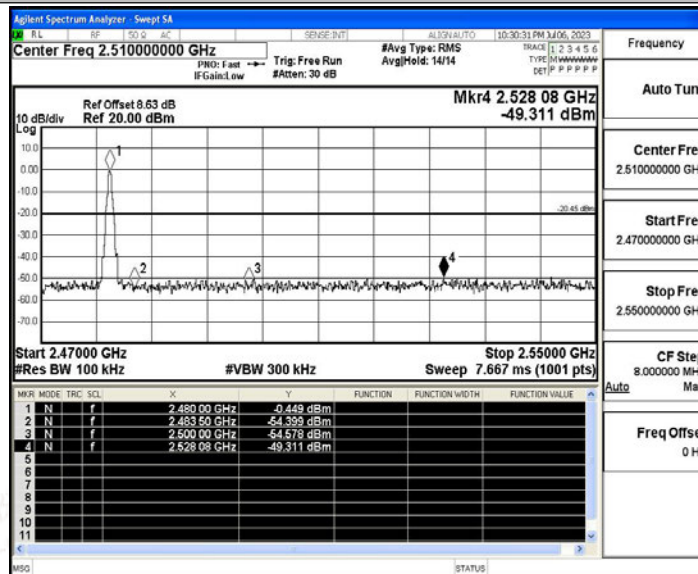


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

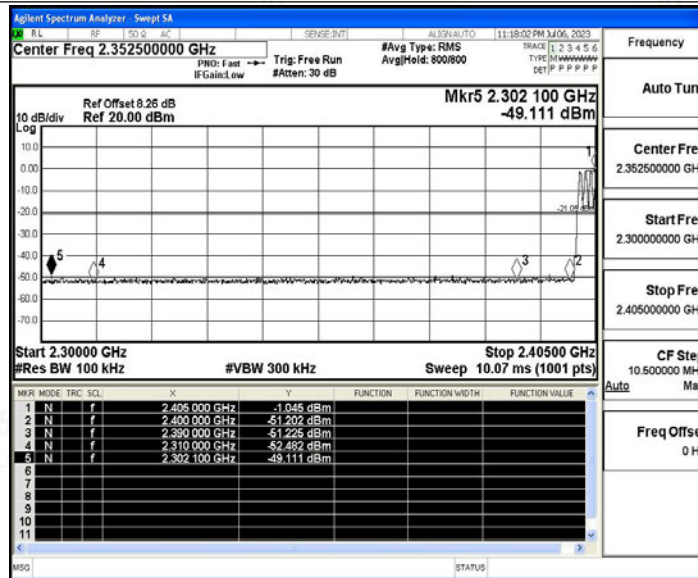


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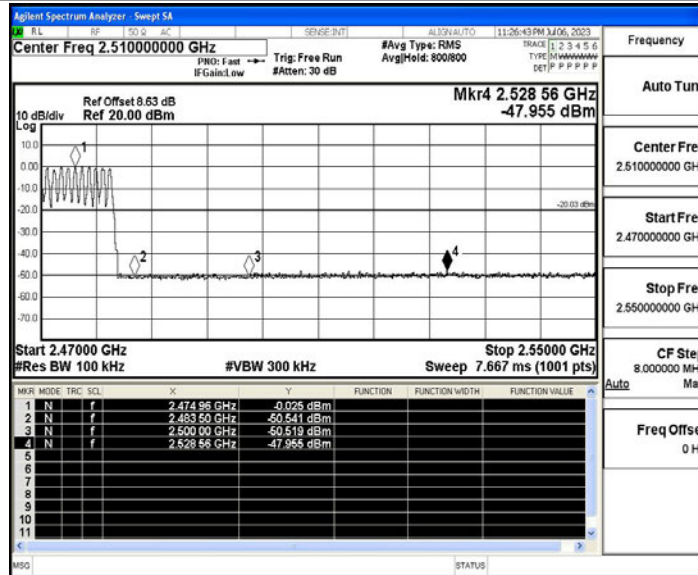
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

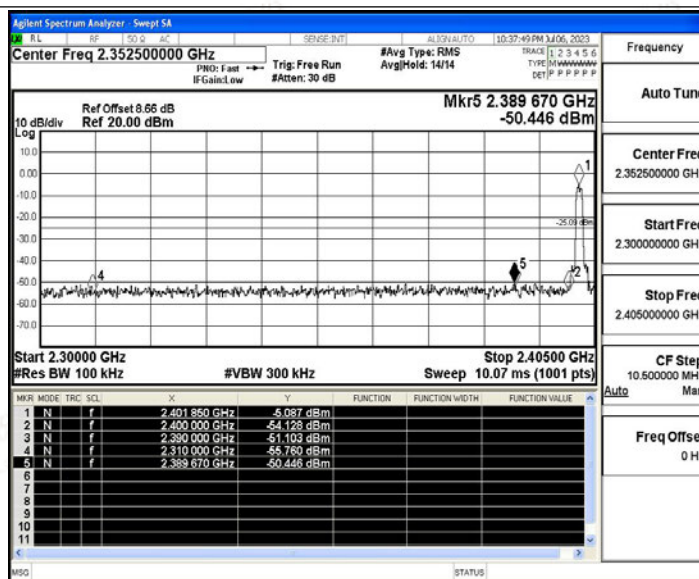


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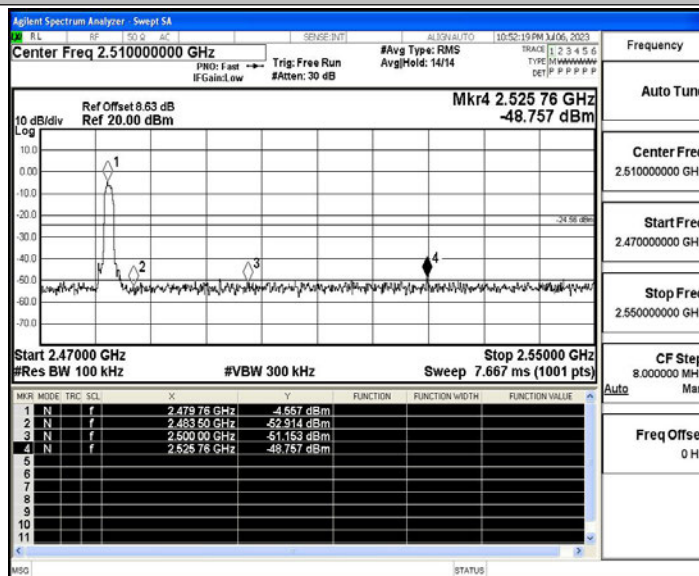
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

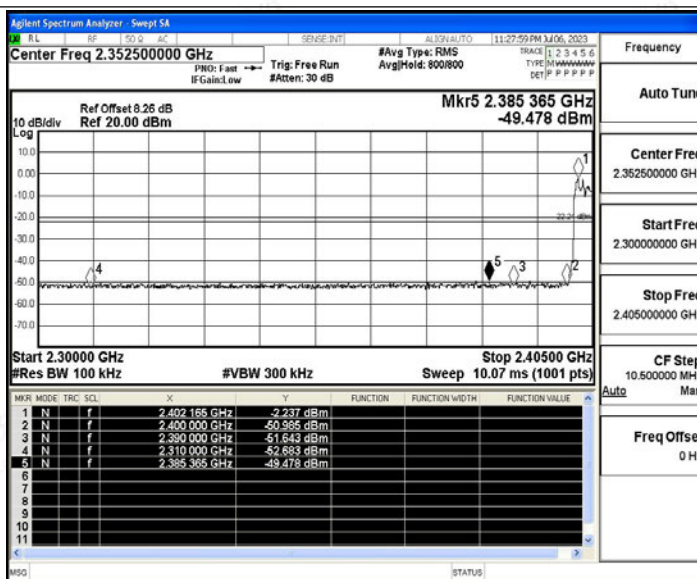


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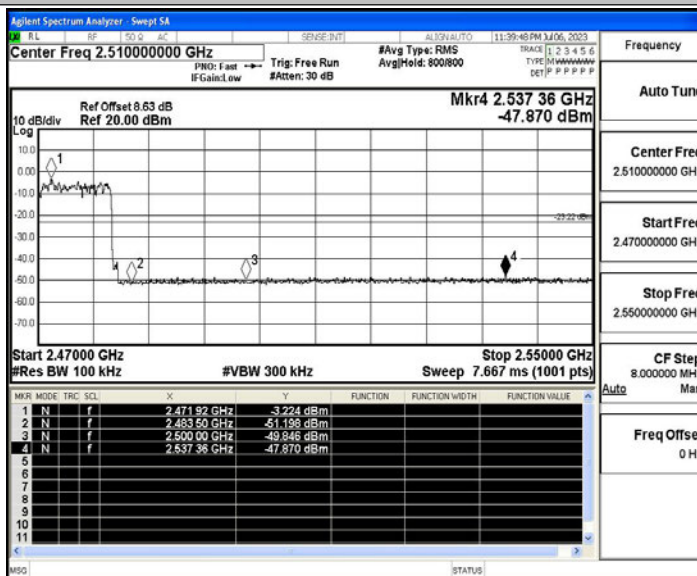
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

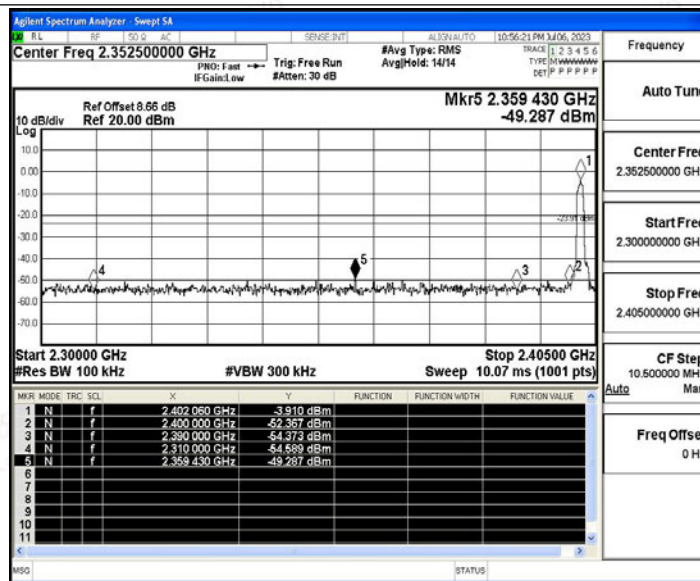


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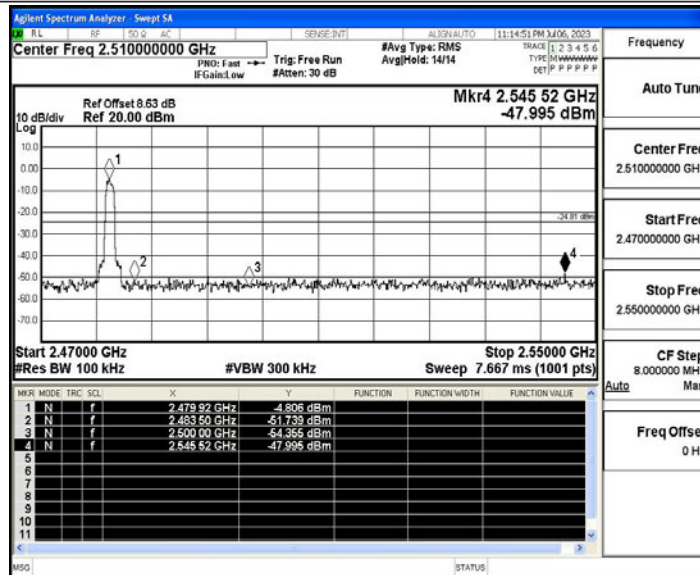
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

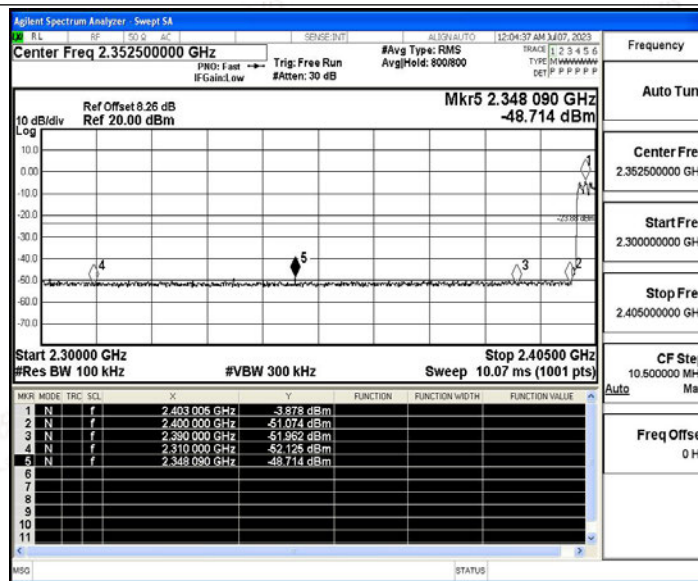


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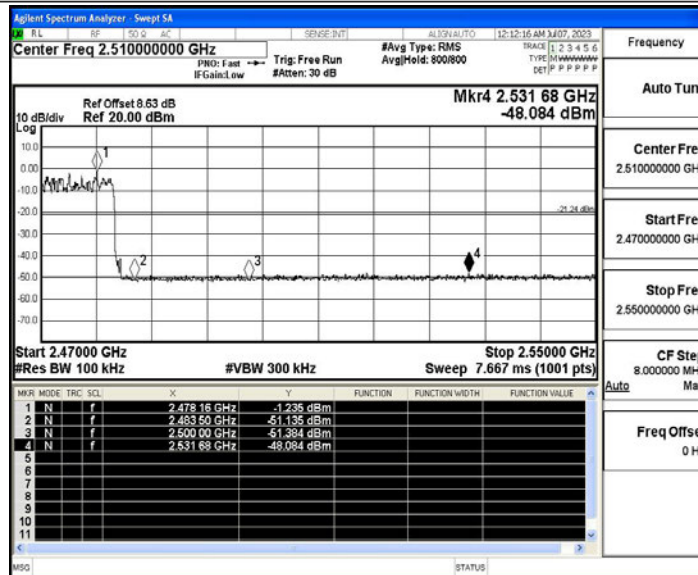
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-61.13	≤ -21	PASS
			1000~26500	-1.00	-46.83	≤ -21	PASS
		2441	Reference	-0.99	-0.99	---	PASS
			30~1000	-0.99	-60.62	≤ -20.99	PASS
			1000~26500	-0.99	-45.85	≤ -20.99	PASS
		2480	Reference	-0.67	-0.67	---	PASS
			30~1000	-0.67	-61.55	≤ -20.67	PASS
			1000~26500	-0.67	-47.32	≤ -20.67	PASS
2DH5	Ant1	2402	Reference	-5.57	-5.57	---	PASS
			30~1000	-5.57	-60.82	≤ -25.57	PASS
			1000~26500	-5.57	-46.47	≤ -25.57	PASS
		2441	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-53.94	≤ -25.34	PASS
			1000~26500	-5.34	-46.87	≤ -25.34	PASS
		2480	Reference	-5.70	-5.70	---	PASS
			30~1000	-5.70	-61.33	≤ -25.7	PASS
			1000~26500	-5.70	-45.44	≤ -25.7	PASS
3DH5	Ant1	2402	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-61.26	≤ -24.68	PASS
			1000~26500	-4.68	-46.19	≤ -24.68	PASS
		2441	Reference	-5.34	-5.34	---	PASS
			30~1000	-5.34	-60.63	≤ -25.34	PASS
			1000~26500	-5.34	-46.25	≤ -25.34	PASS
		2480	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-61.16	≤ -24.84	PASS
			1000~26500	-4.84	-46.36	≤ -24.84	PASS



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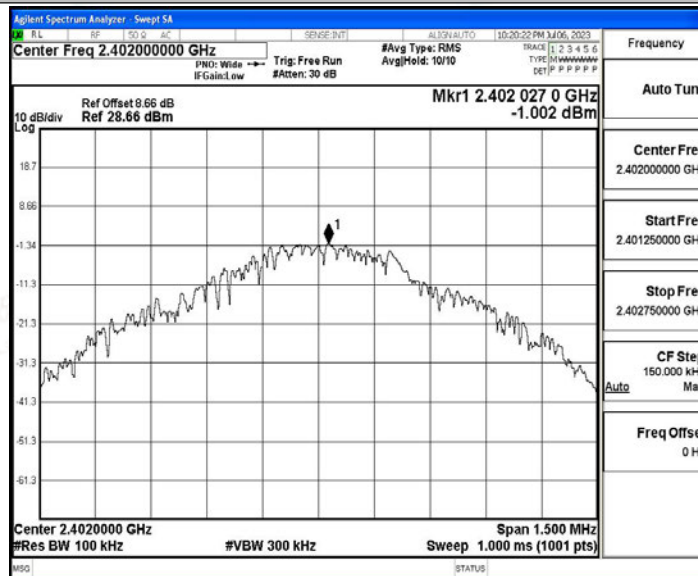
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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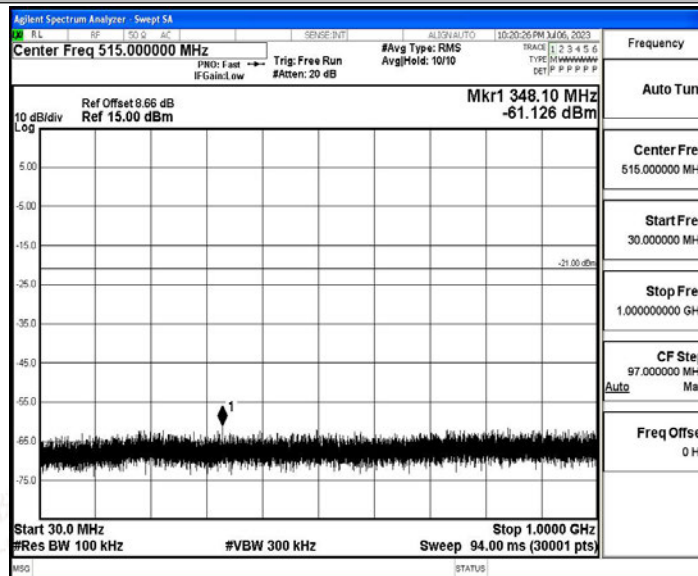


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

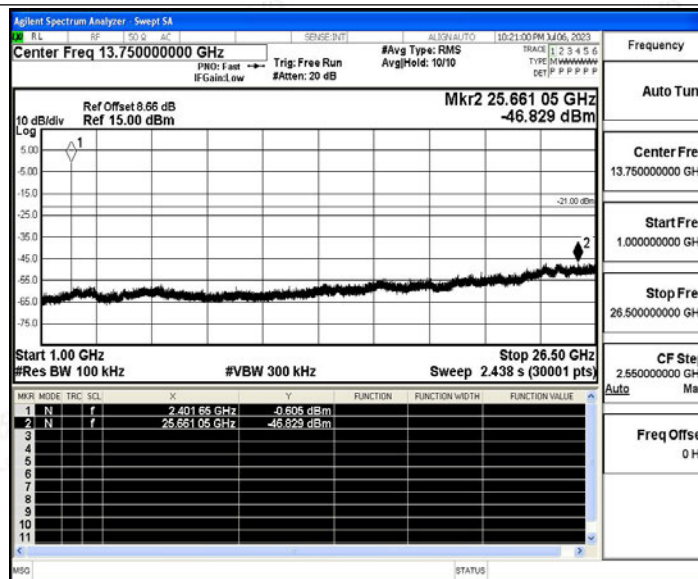


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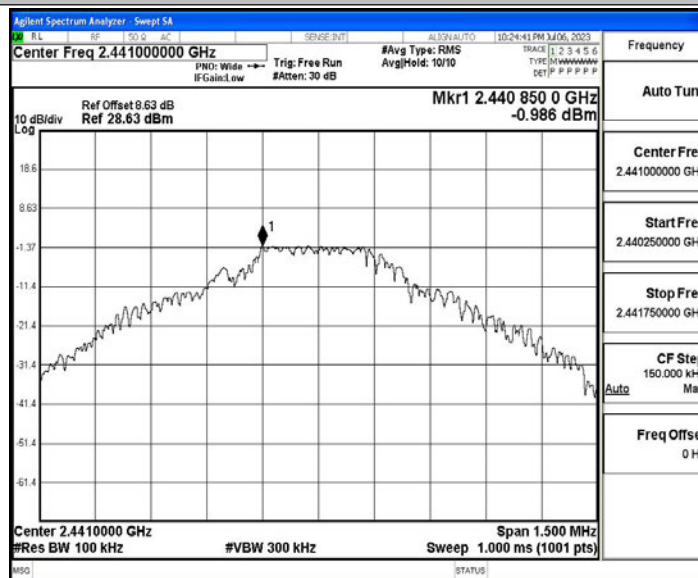
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

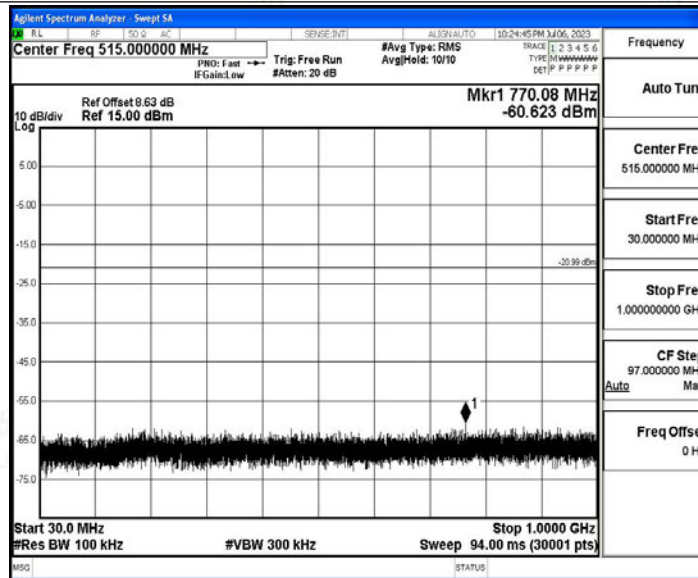


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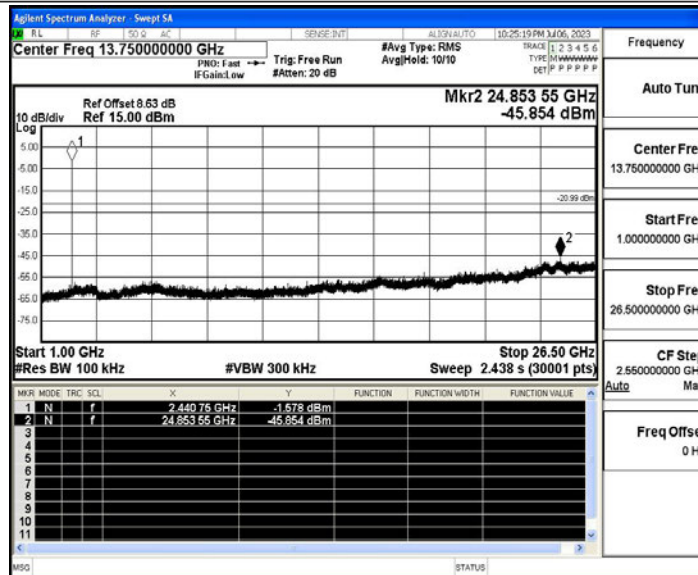
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

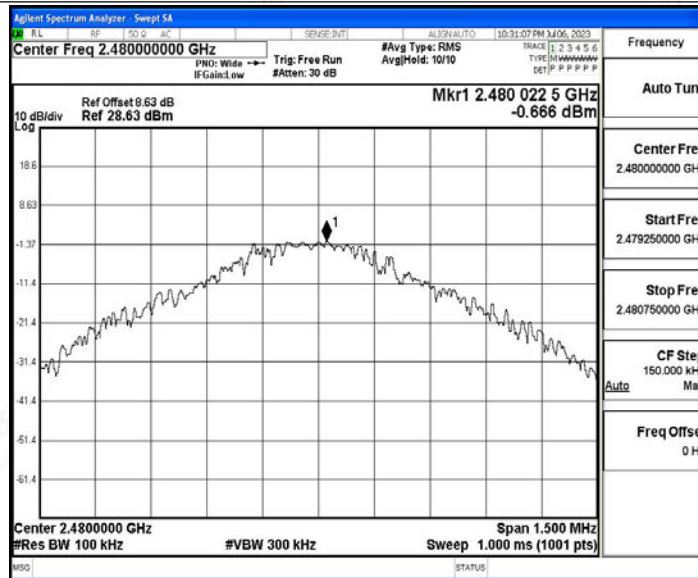


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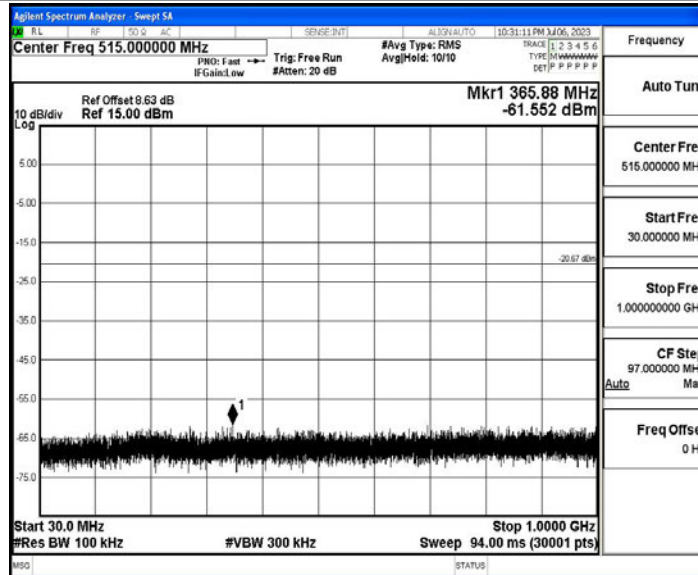
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

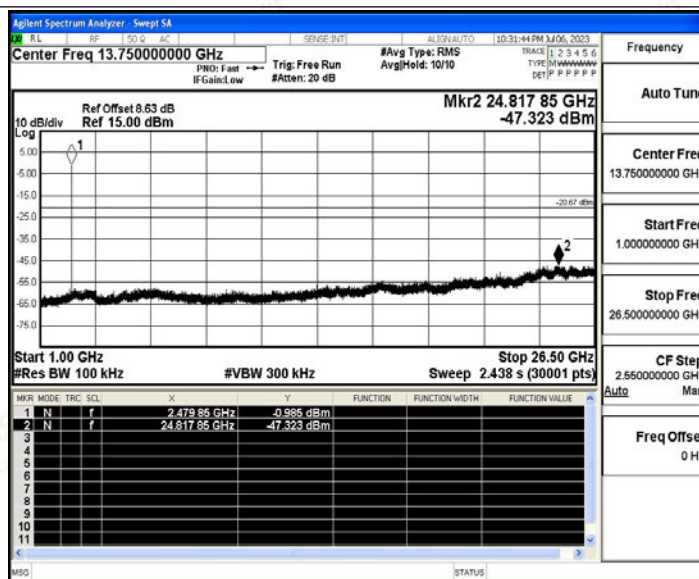


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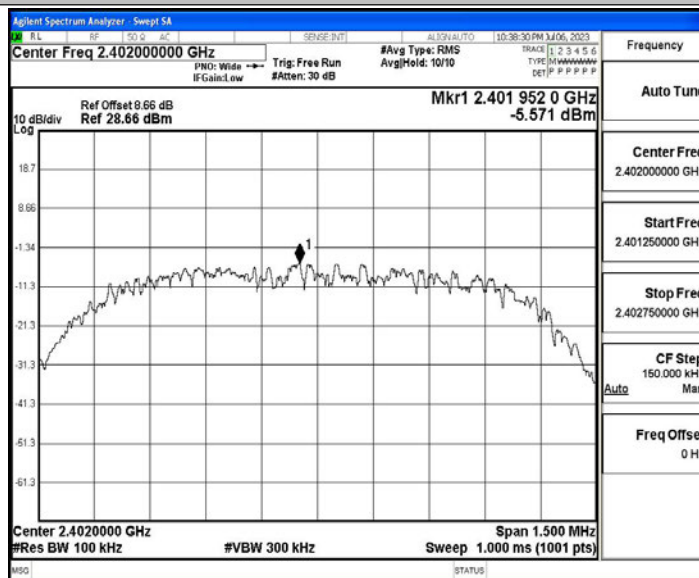
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

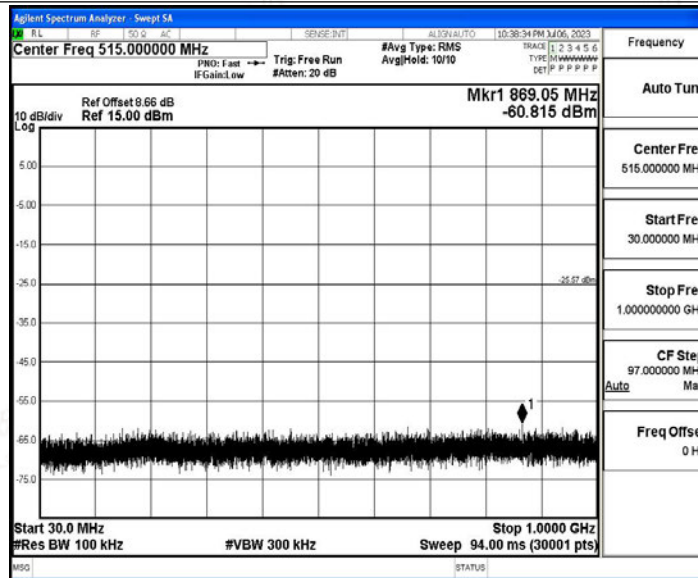


Shenzhen LCS Compliance Testing Laboratory Ltd.

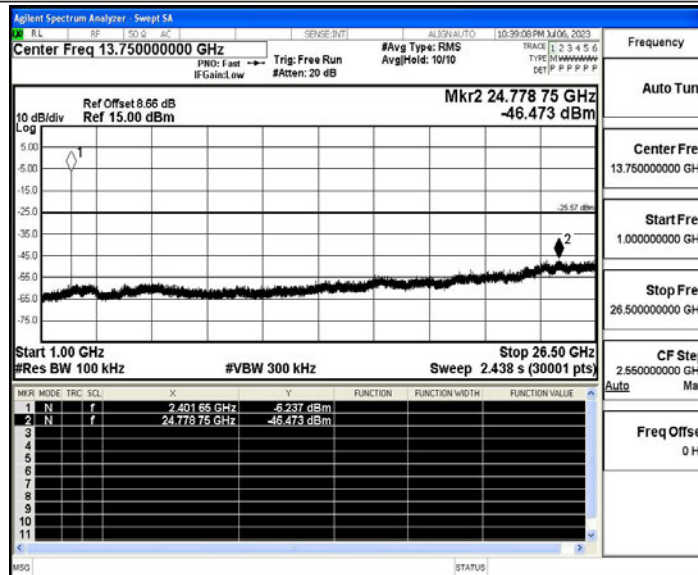
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

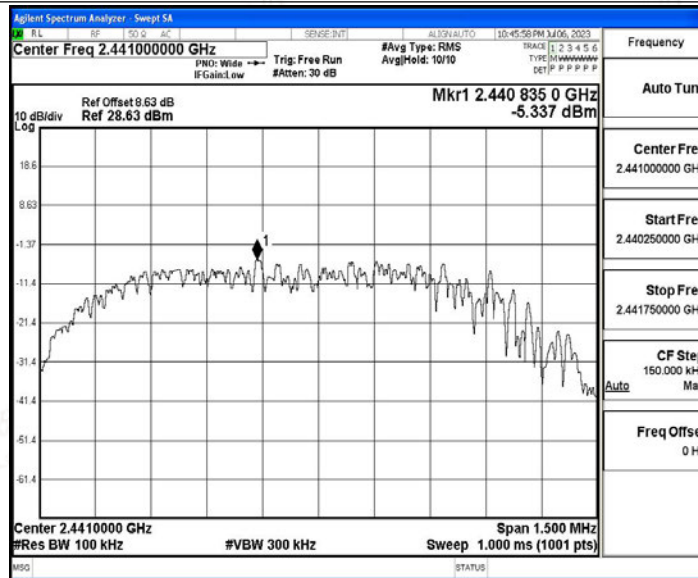


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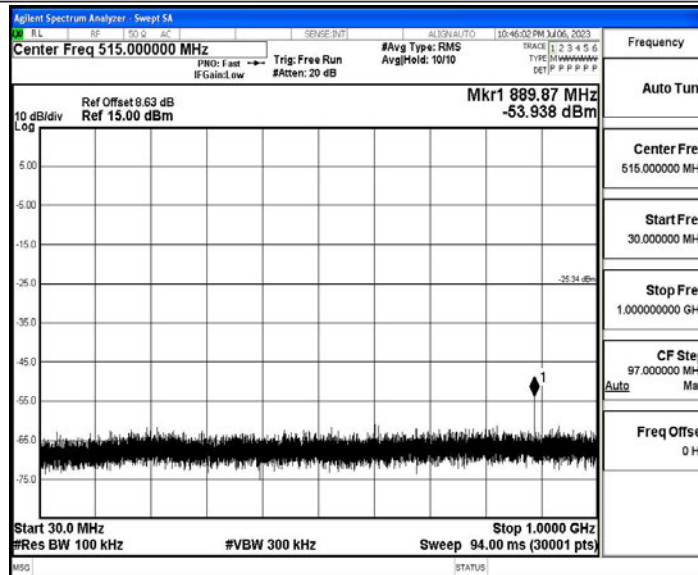
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

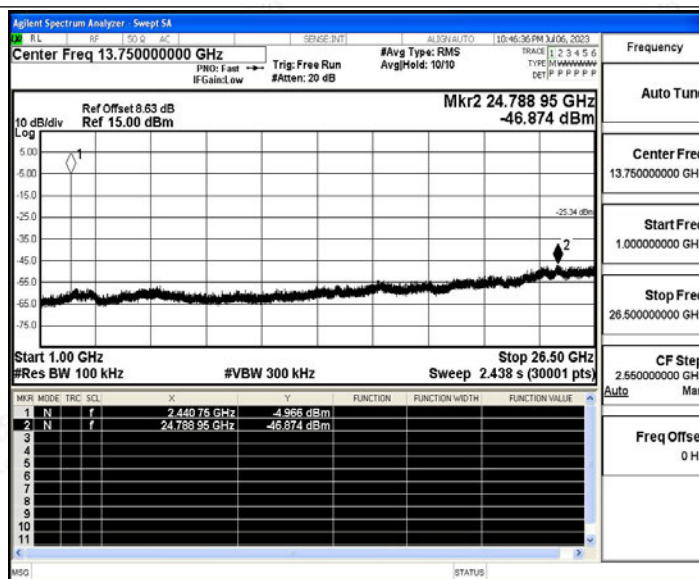


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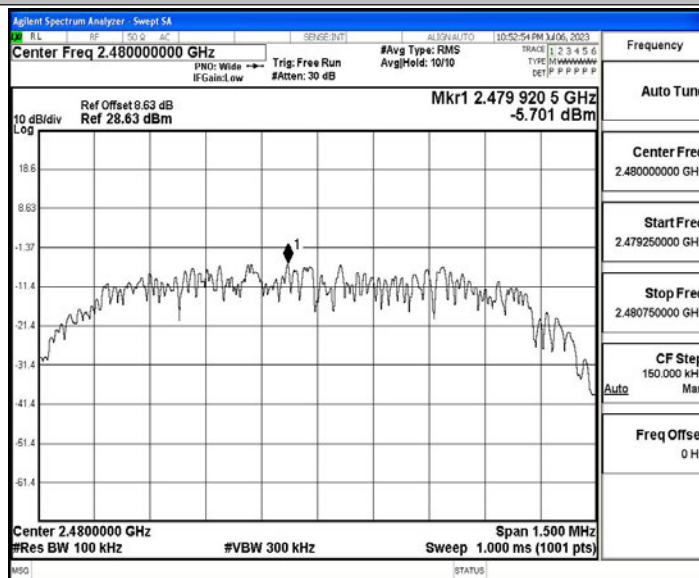
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

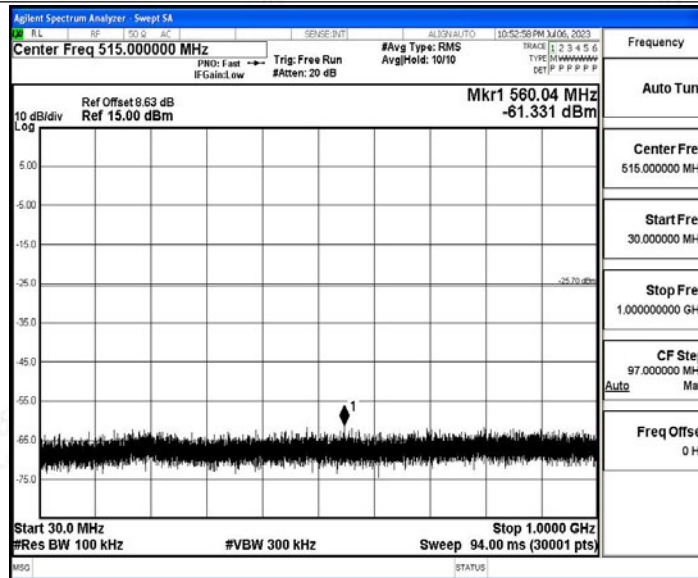


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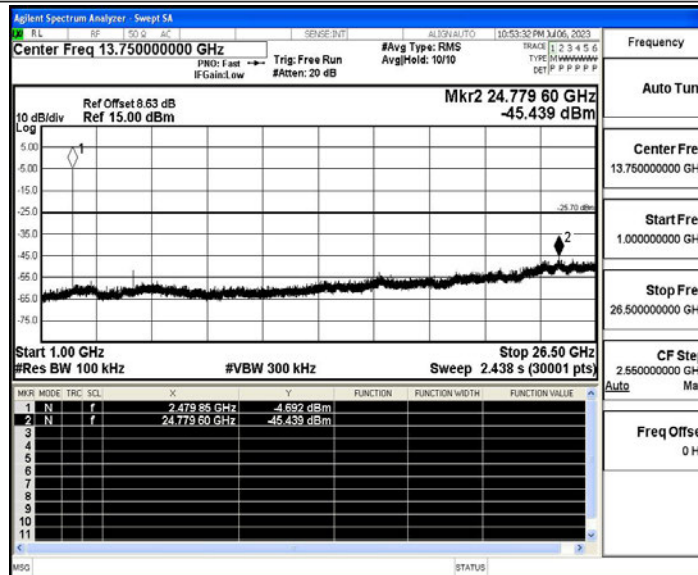
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

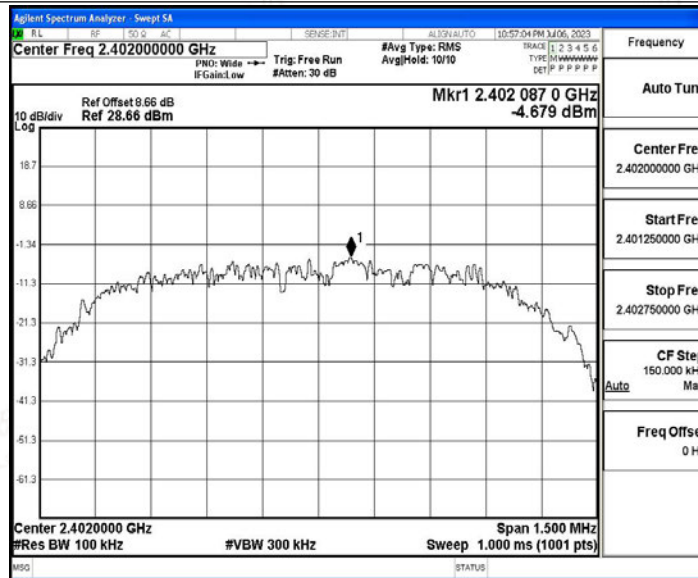


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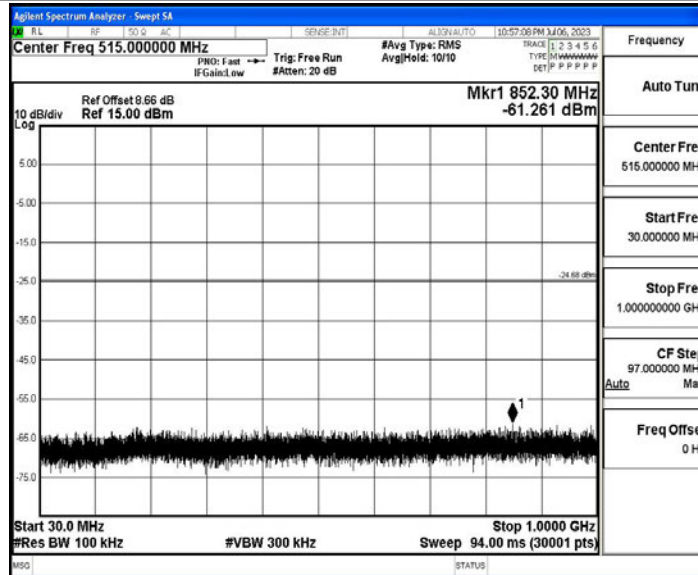
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

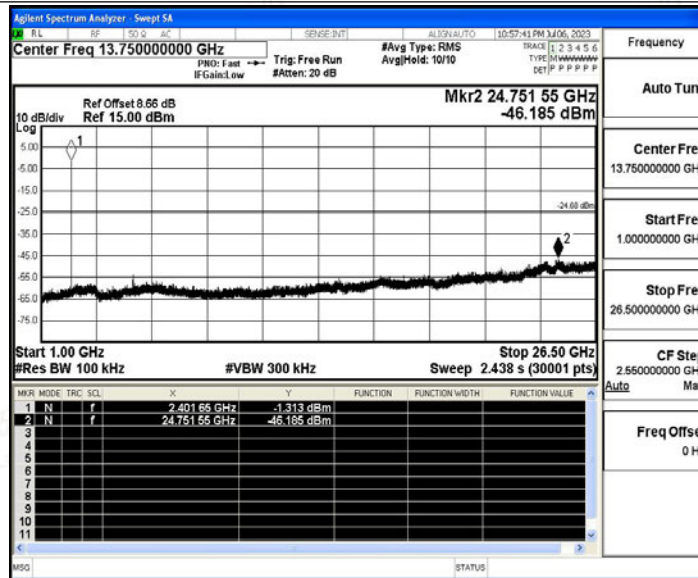


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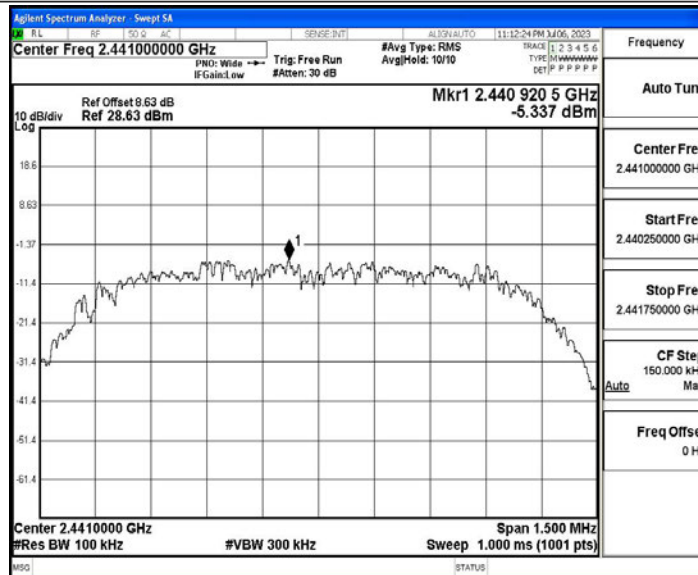
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

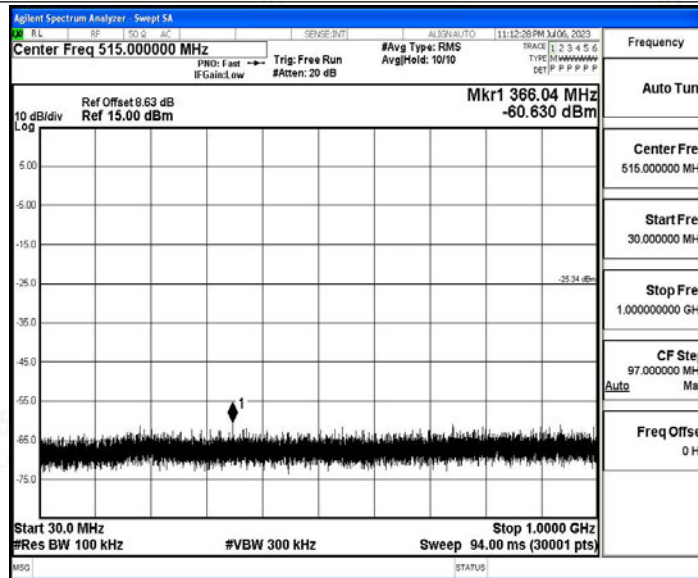


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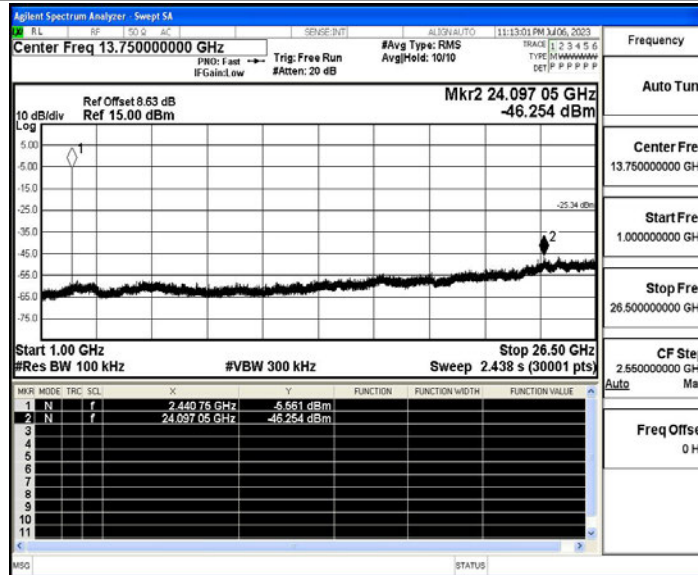
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

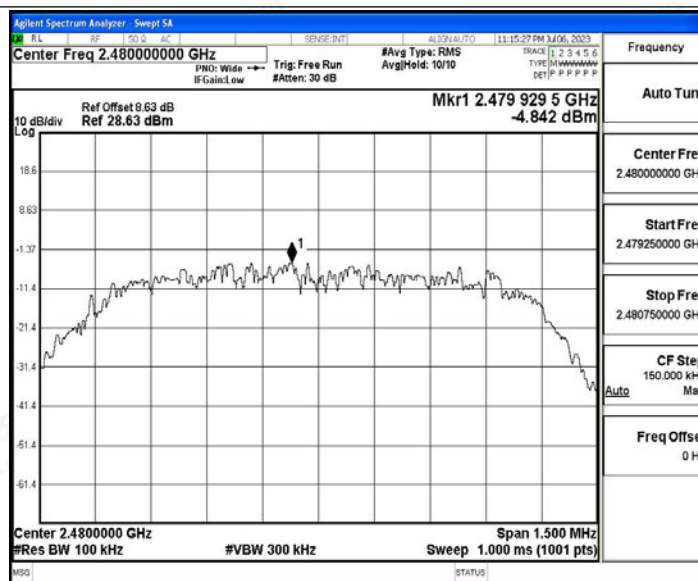


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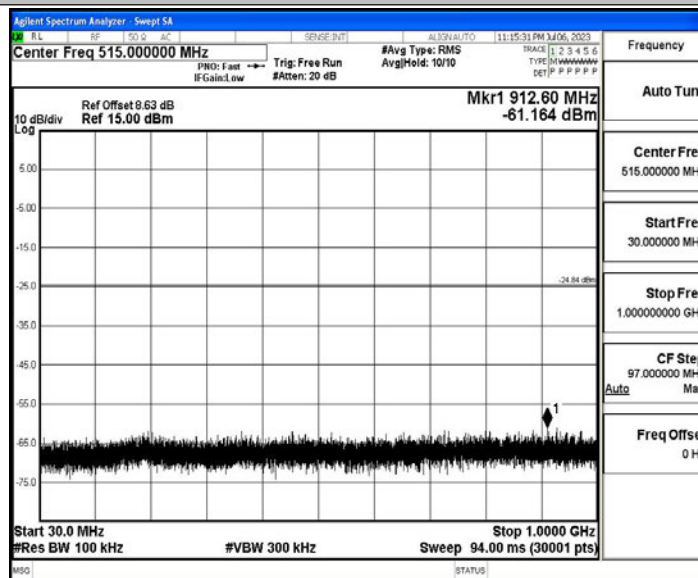
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

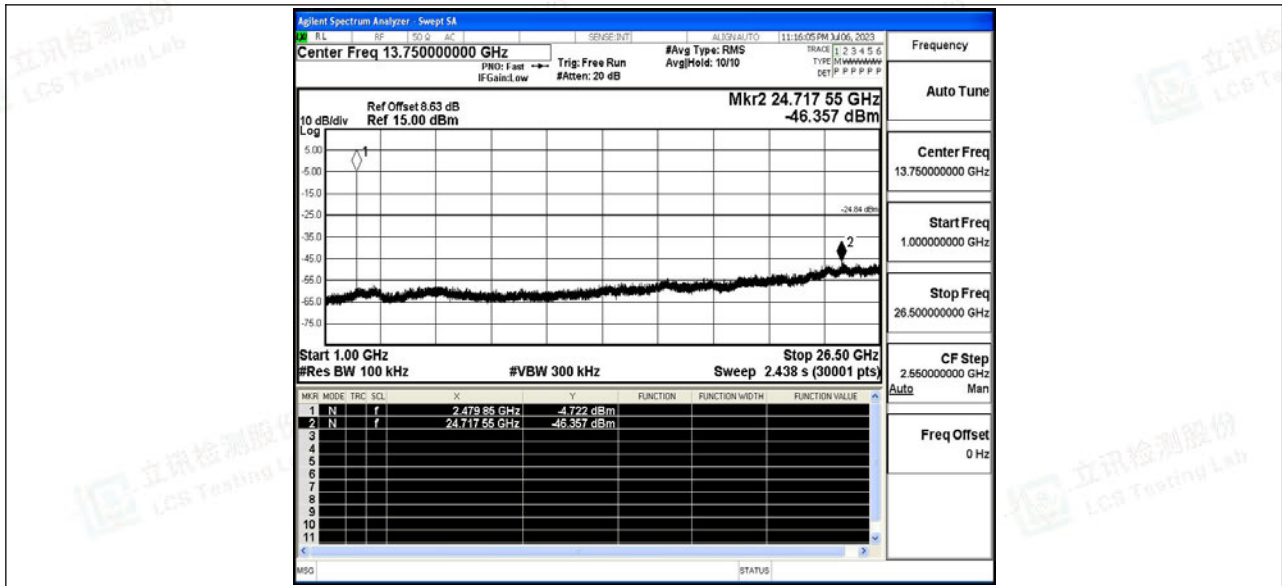


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.3	≤-41.20	46.90	≤54	PASS
				AV	2377.910	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2390.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	2310.000	-44.45	≤-21.20	50.75	≤74	PASS
				Peak	2359.745	-38.3	≤-21.20	56.90	≤74	PASS
				Peak	2390.000	-41.49	≤-21.20	53.71	≤74	PASS
		High	2480	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2499.280	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2500.000	-47.37	≤-41.20	47.83	≤54	PASS
				Peak	2483.500	-39.82	≤-21.20	55.38	≤74	PASS
				Peak	2492.320	-38.05	≤-21.20	57.15	≤74	PASS
				Peak	2500.000	-40.7	≤-21.20	54.50	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2358.590	-36.87	≤-21.20	58.33	≤74	PASS
				Peak	2390.000	-39.33	≤-21.20	55.87	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2498.640	-37.2	≤-21.20	58.00	≤74	PASS
				Peak	2500.000	-38.23	≤-21.20	56.97	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2386.520	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2390.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2310.000	-42.61	≤-21.20	52.59	≤74	PASS
				Peak	2311.235	-38.76	≤-21.20	56.44	≤74	PASS
				Peak	2390.000	-43.75	≤-21.20	51.45	≤74	PASS
		High	2480	AV	2483.500	-47.25	≤-41.20	47.95	≤54	PASS
				AV	2495.360	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2500.000	-47.42	≤-41.20	47.78	≤54	PASS
				Peak	2483.500	-43.36	≤-21.20	51.84	≤74	PASS
				Peak	2498.960	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2500.000	-42.49	≤-21.20	52.71	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.31	≤-21.20	54.89	≤74	PASS
				Peak	2348.615	-37.85	≤-21.20	57.35	≤74	PASS
				Peak	2390.000	-40.69	≤-21.20	54.51	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.66	≤-21.20	55.54	≤74	PASS
				Peak	2487.600	-37.53	≤-21.20	57.67	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-39.09	≤-21.20	56.11	≤74	PASS
				AV	2310.000	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2388.935	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2390.000	-47.94	≤-41.20	47.26	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2370.245	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2390.000	-42.21	≤-21.20	52.99	≤74	PASS
		High	2480	AV	2483.500	-47.35	≤-41.20	47.85	≤54	PASS
				AV	2497.200	-47.21	≤-41.20	47.99	≤54	PASS
				AV	2500.000	-47.43	≤-41.20	47.77	≤54	PASS
				Peak	2483.500	-39.42	≤-21.20	55.78	≤74	PASS
				Peak	2494.960	-38.36	≤-21.20	56.84	≤74	PASS
				Peak	2500.000	-41.94	≤-21.20	53.26	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2372.660	-37.86	≤-21.20	57.34	≤74	PASS
				Peak	2390.000	-39.35	≤-21.20	55.85	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2489.600	-37.11	≤-21.20	58.09	≤74	PASS
				Peak	2500.000	-38.23	≤-21.20	56.97	≤74	PASS

Note:

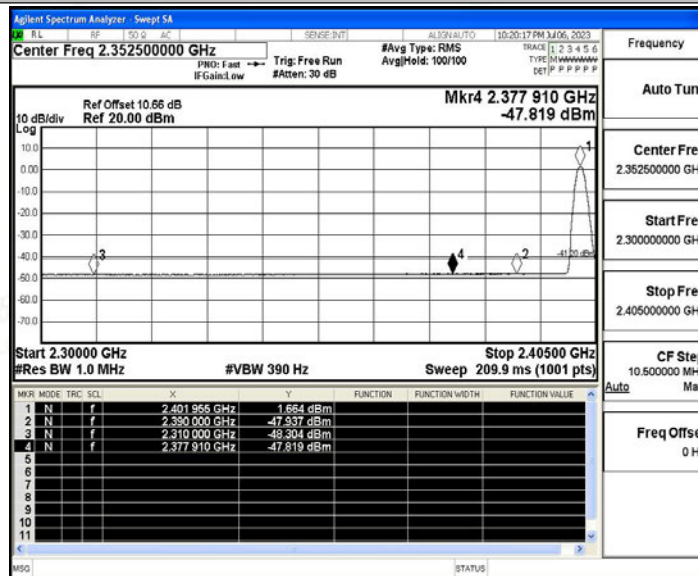
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



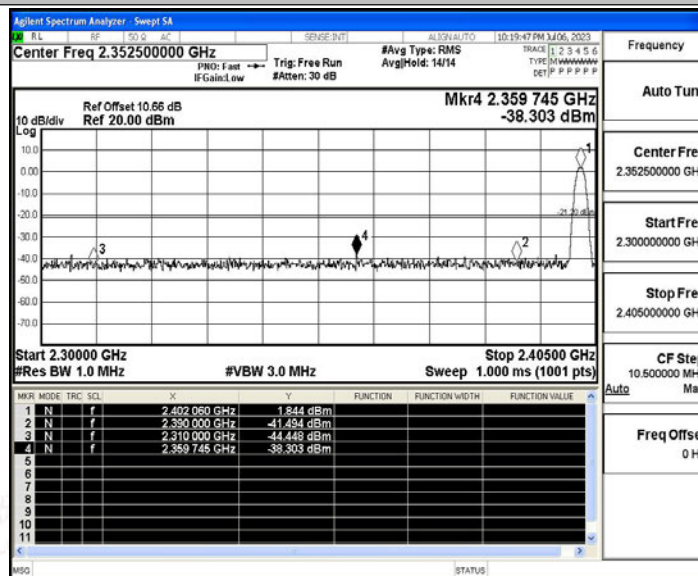


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

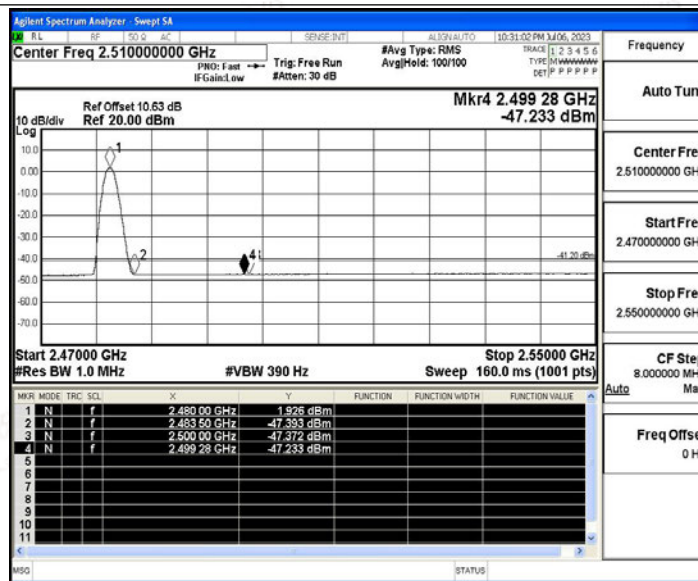


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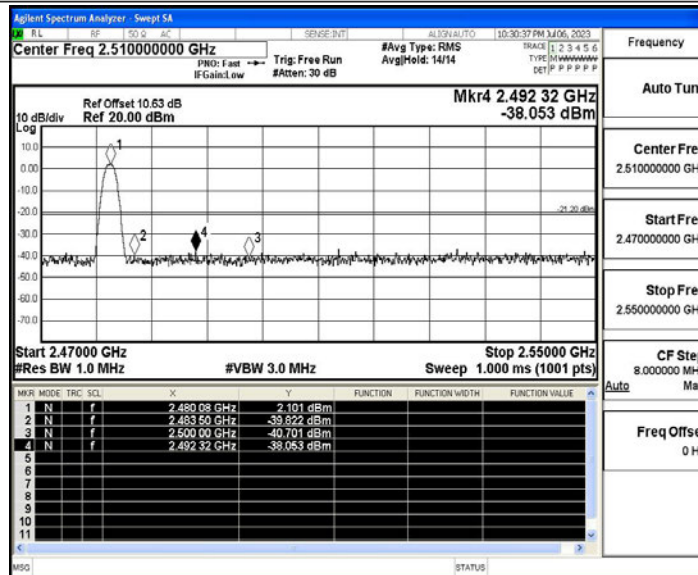
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

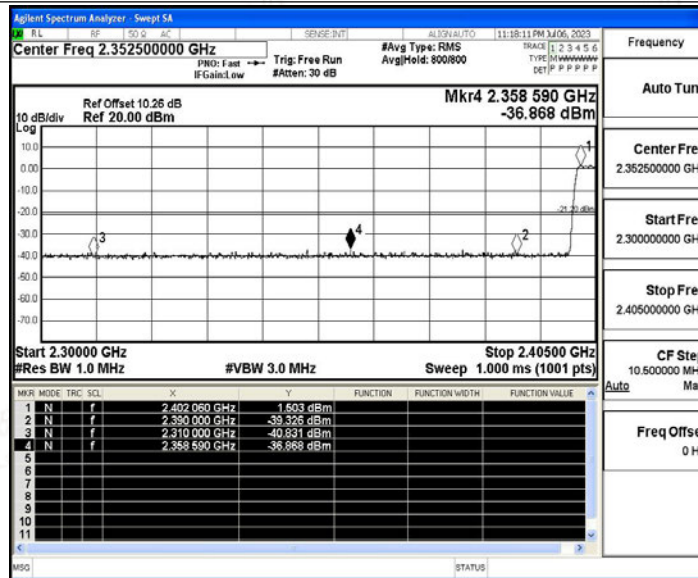


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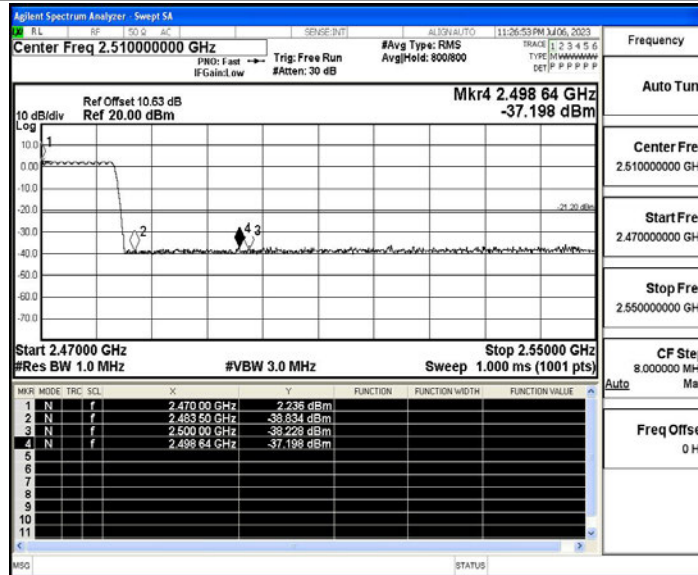
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

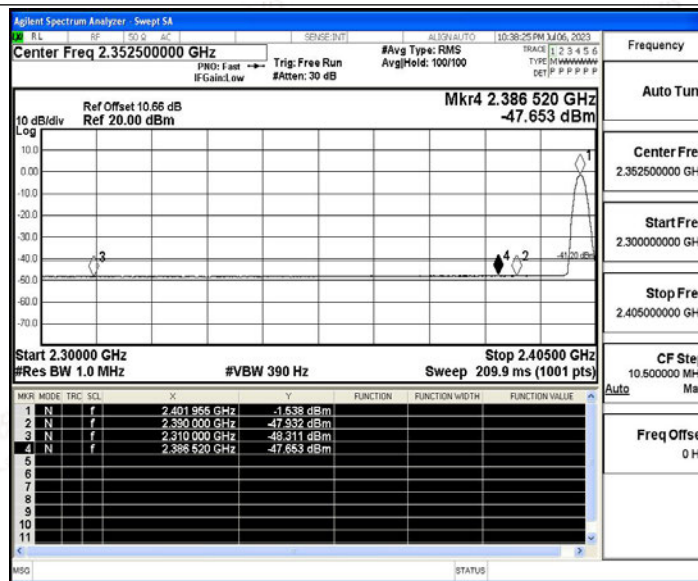


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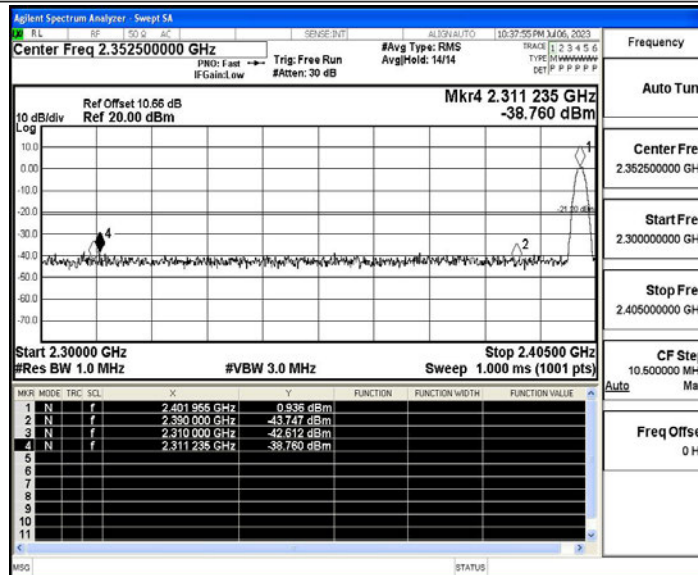
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

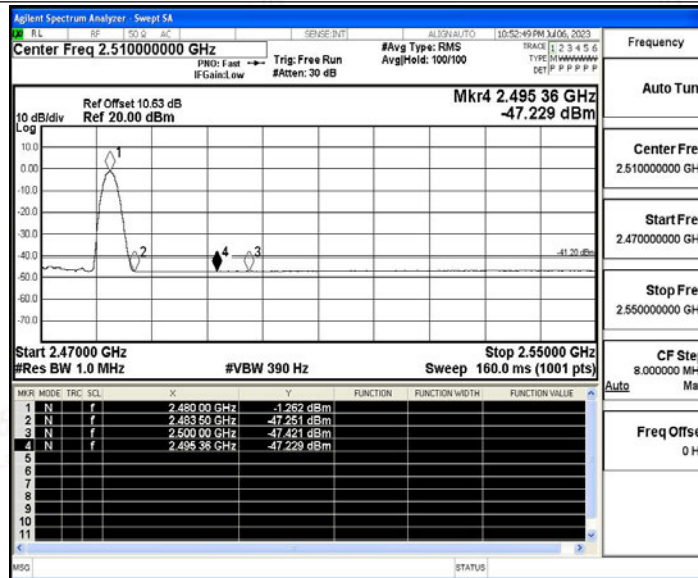


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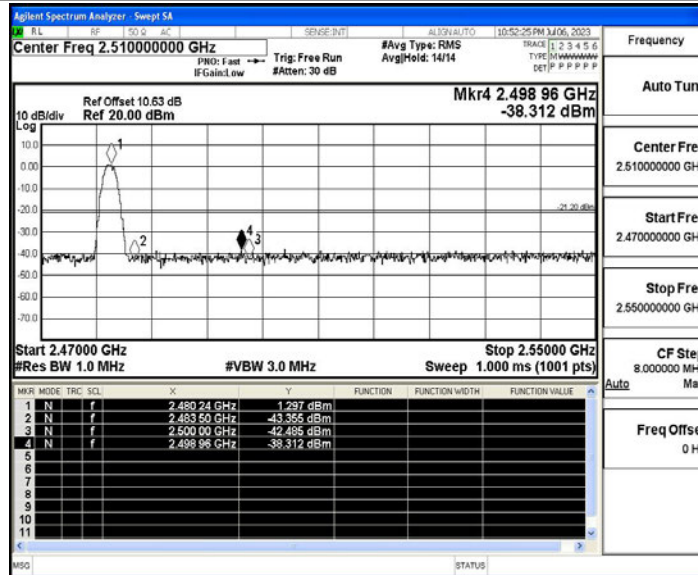
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

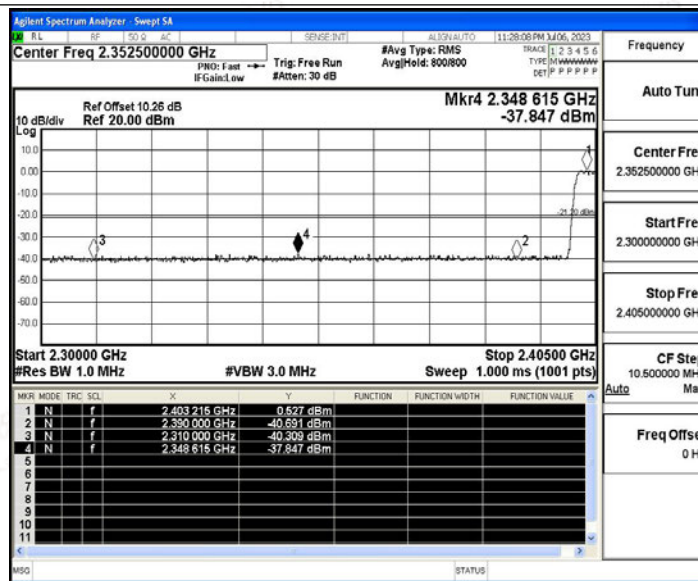


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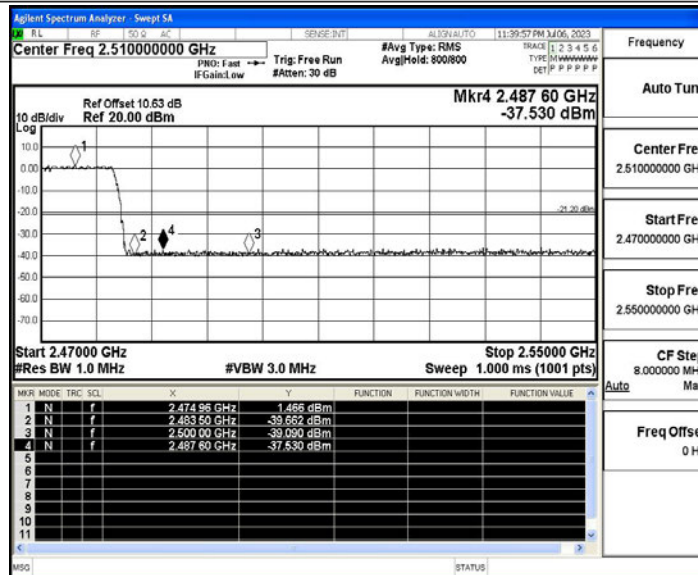
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

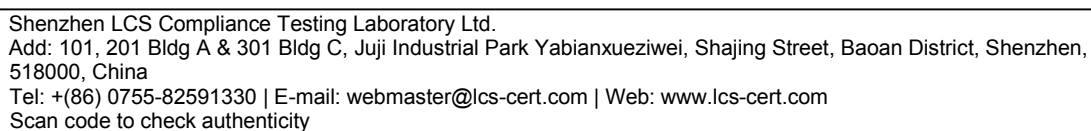
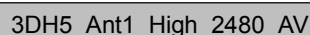


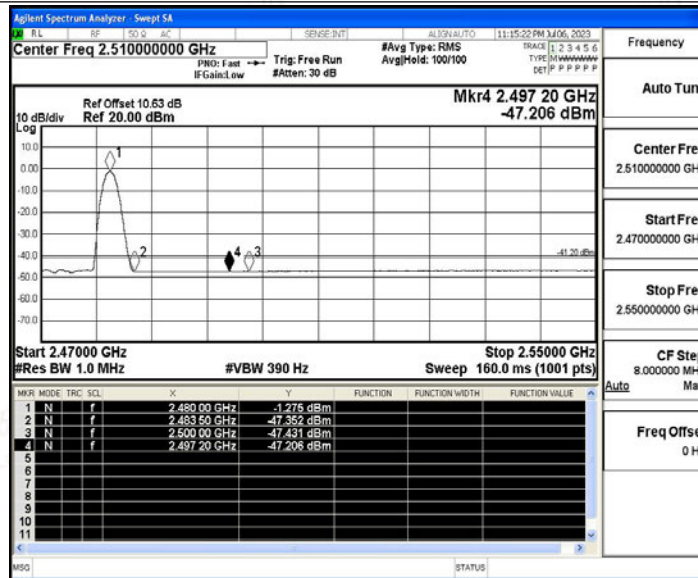
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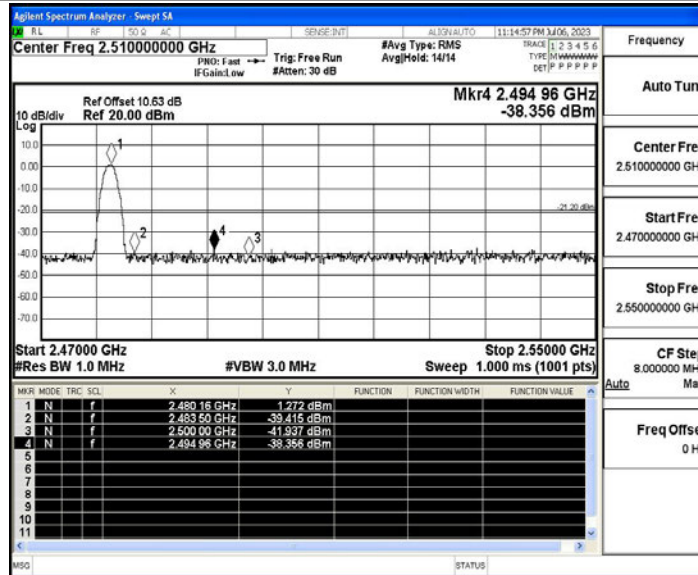
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

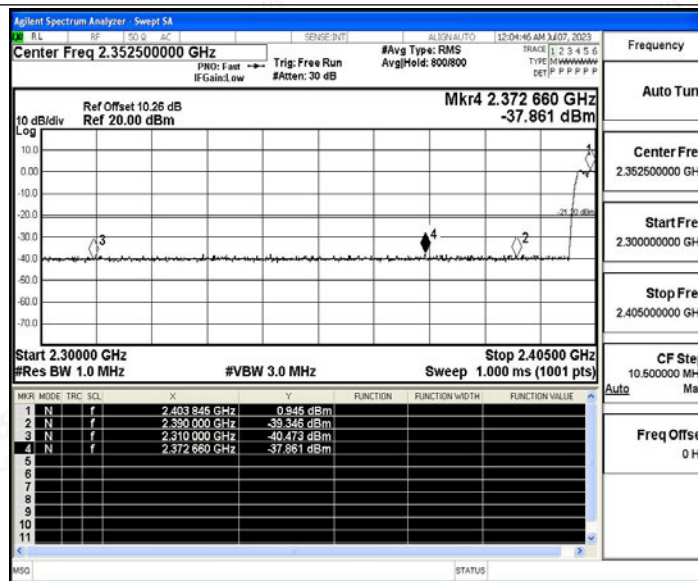


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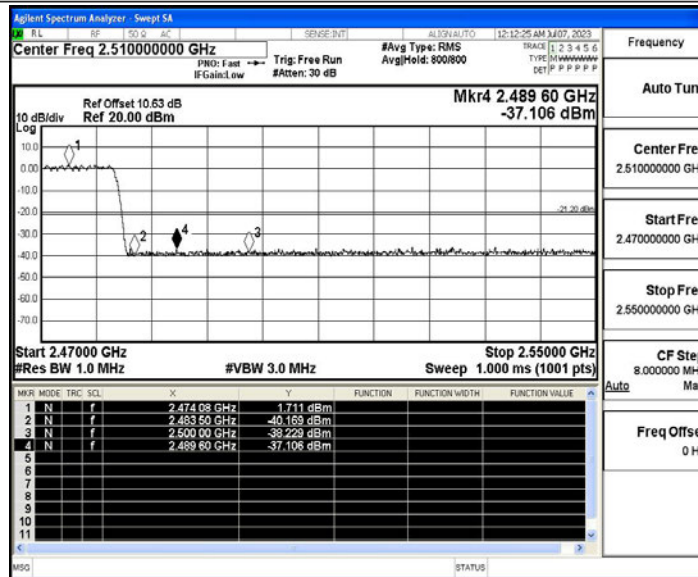
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_High_Hop_2480_Peak



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