



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Sound Gallery Wall Art Speaker

Test Model: SG2424

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li huan





A.1 -20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.041	2401.463	2402.504	---	---
		2441	1.032	2440.466	2441.498	---	---
		2480	1.038	2479.457	2480.495	---	---
2DH5	Ant1	2402	1.314	2401.337	2402.651	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.296	2479.355	2480.651	---	---
3DH5	Ant1	2402	1.311	2401.340	2402.651	---	---
		2441	1.305	2440.343	2441.648	---	---
		2480	1.293	2479.346	2480.639	---	---



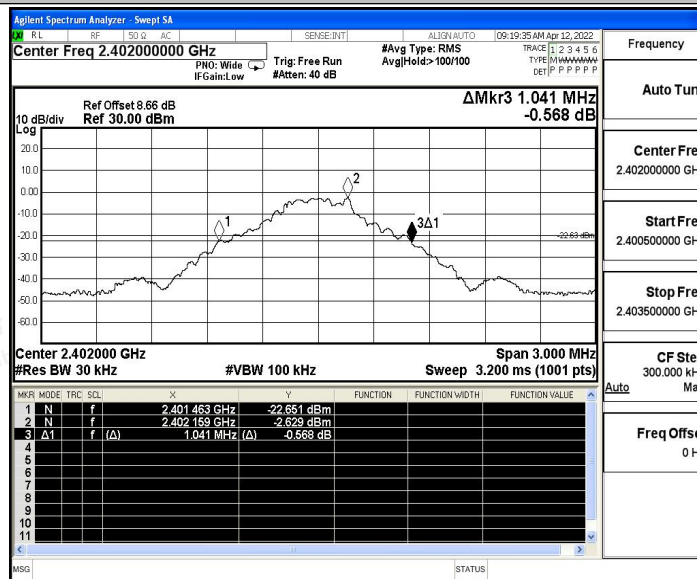
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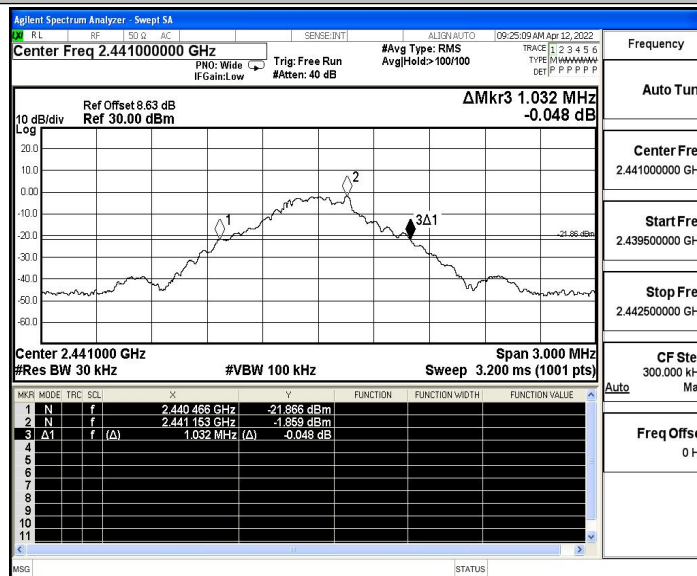
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DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

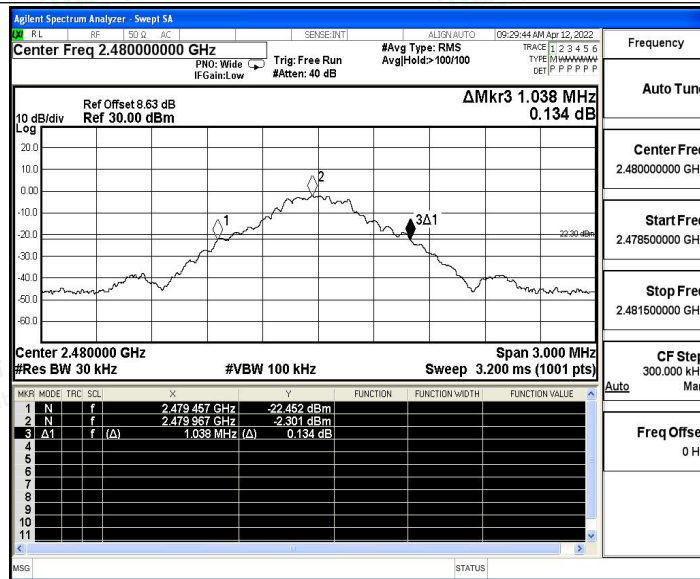


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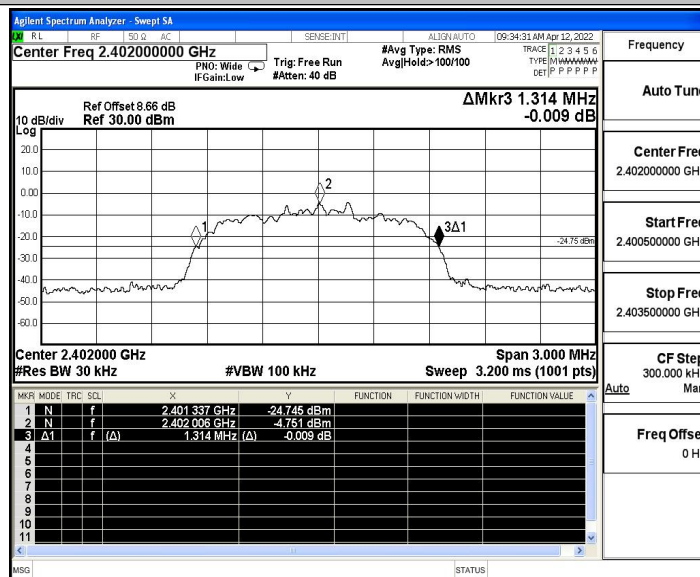
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2DH5_Ant1_2402



2DH5_Ant1_2441

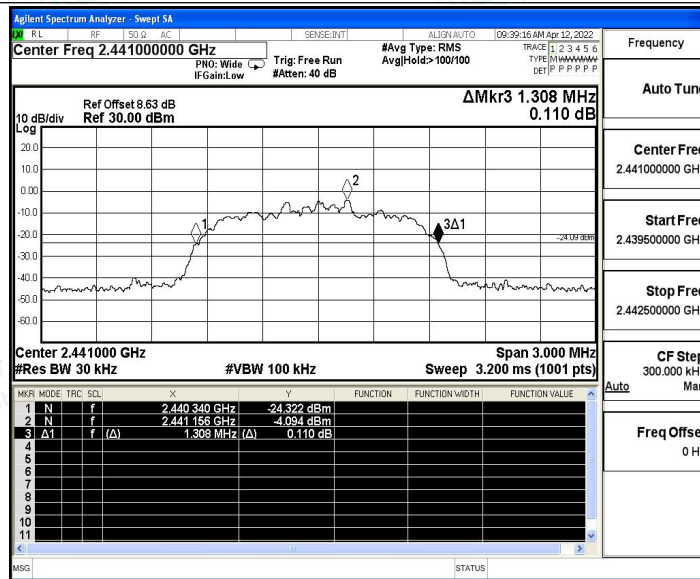


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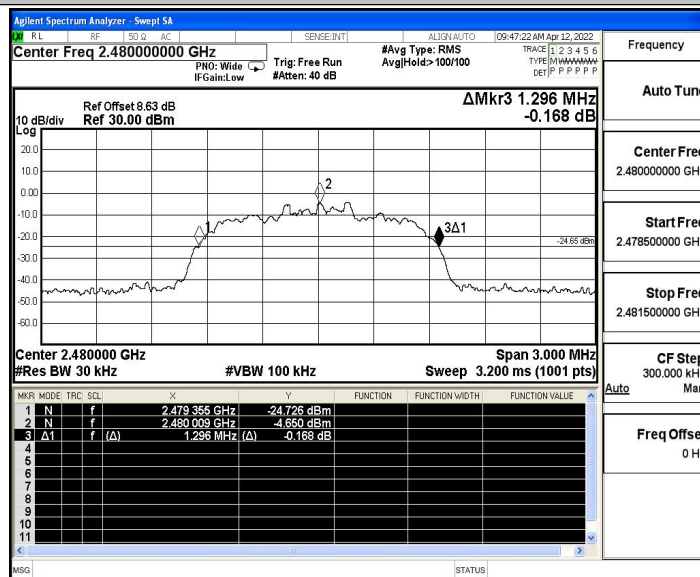
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2DH5_Ant1_2480



3DH5_Ant1_2402

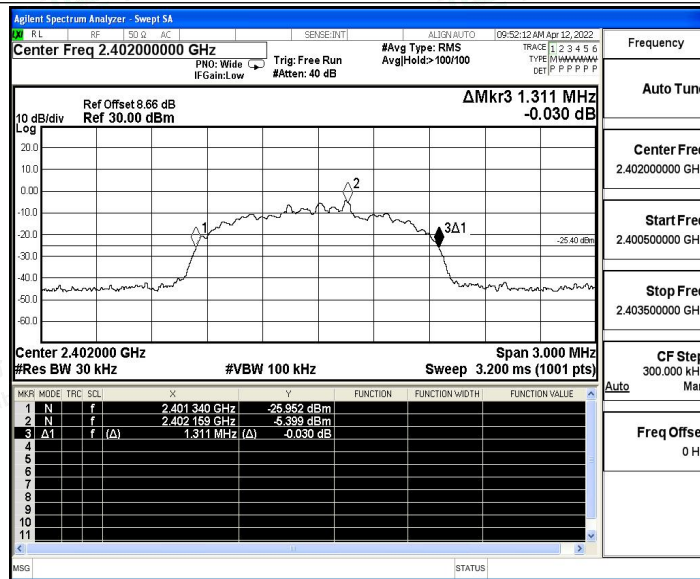


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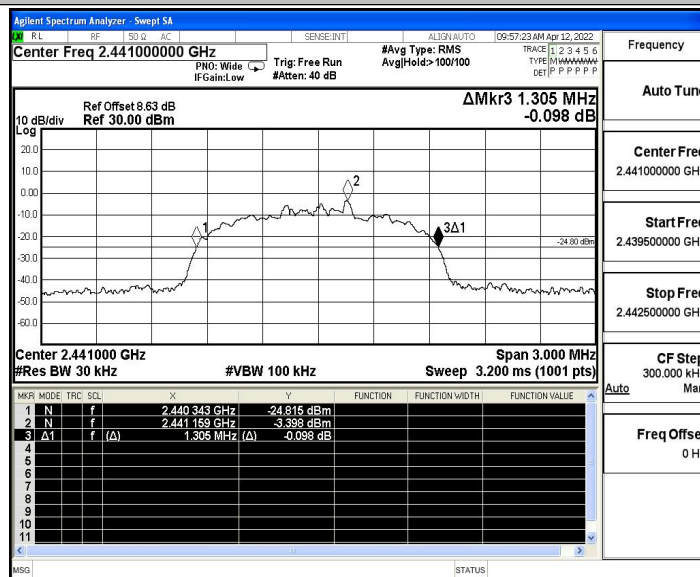
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3DH5_Ant1_2441



3DH5_Ant1_2480

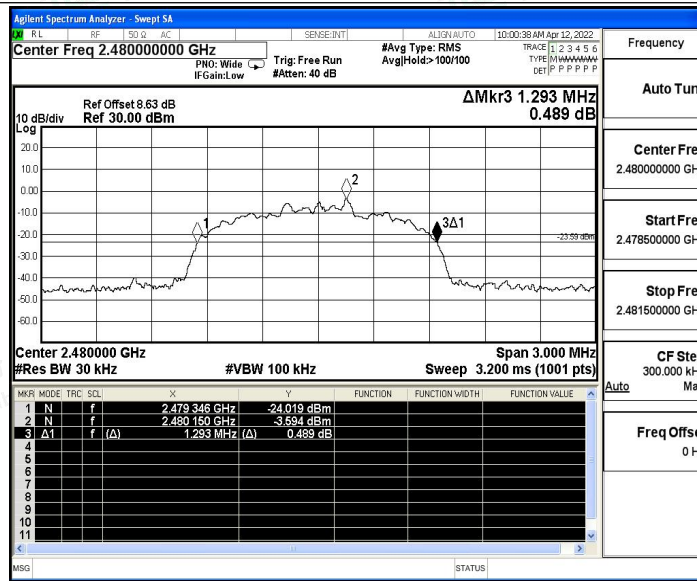


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A.2 Maximum Conducted Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.24	≤20.97	PASS
		2441	0.82	≤20.97	PASS
		2480	0.78	≤20.97	PASS
2DH5	Ant1	2402	0.17	≤20.97	PASS
		2441	0.32	≤20.97	PASS
		2480	0.21	≤20.97	PASS
3DH5	Ant1	2402	-0.16	≤20.97	PASS
		2441	0.34	≤20.97	PASS
		2480	0.28	≤20.97	PASS



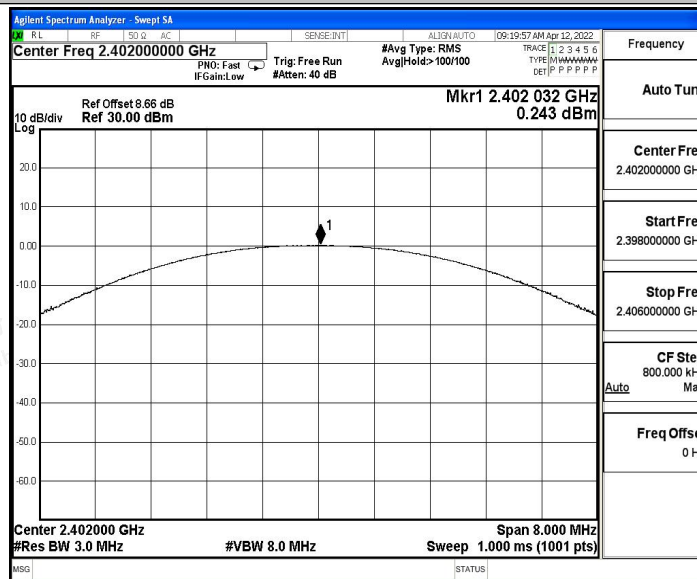
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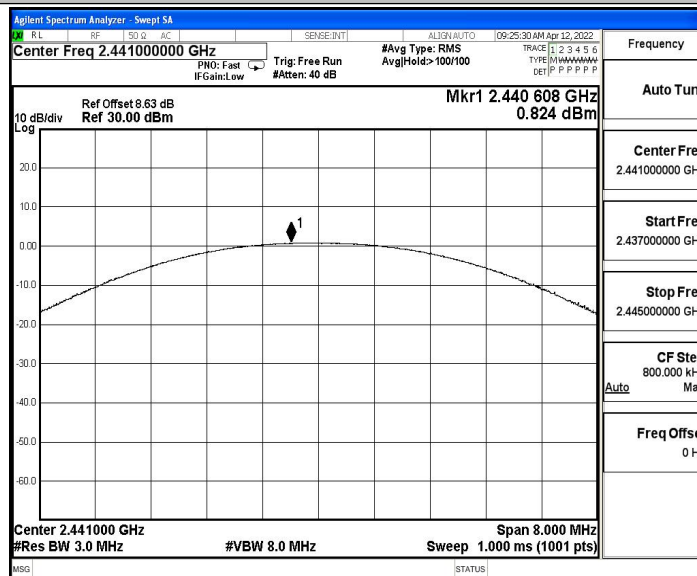
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DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

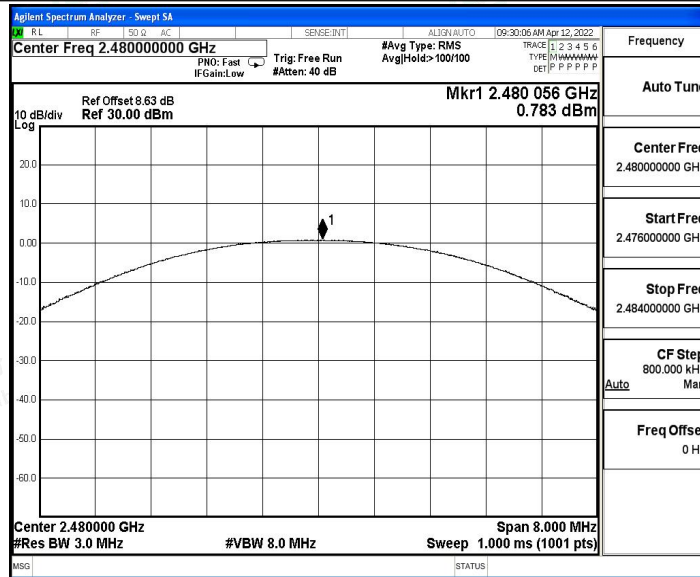


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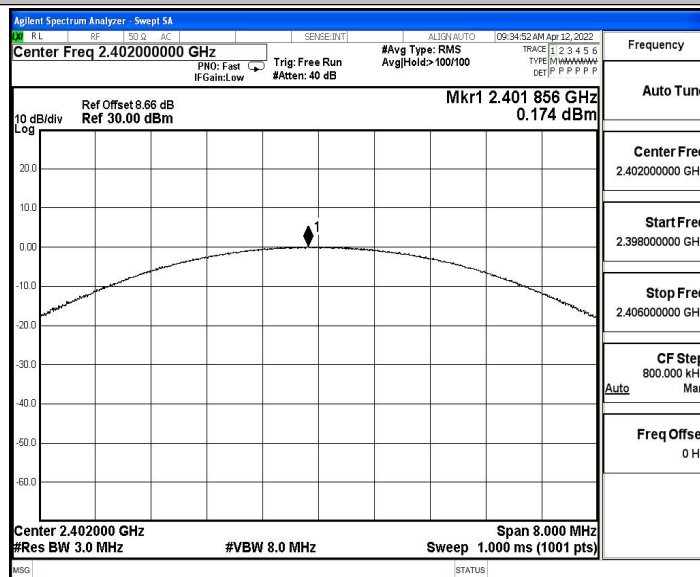
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2DH5_Ant1_2402



2DH5_Ant1_2441

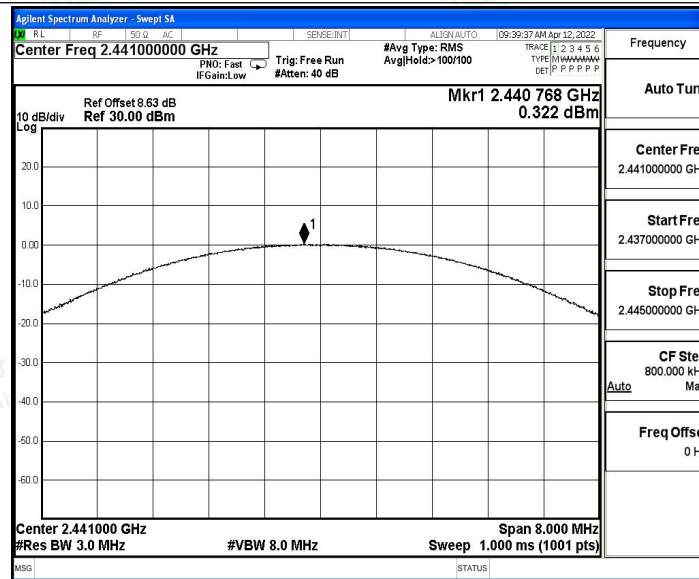


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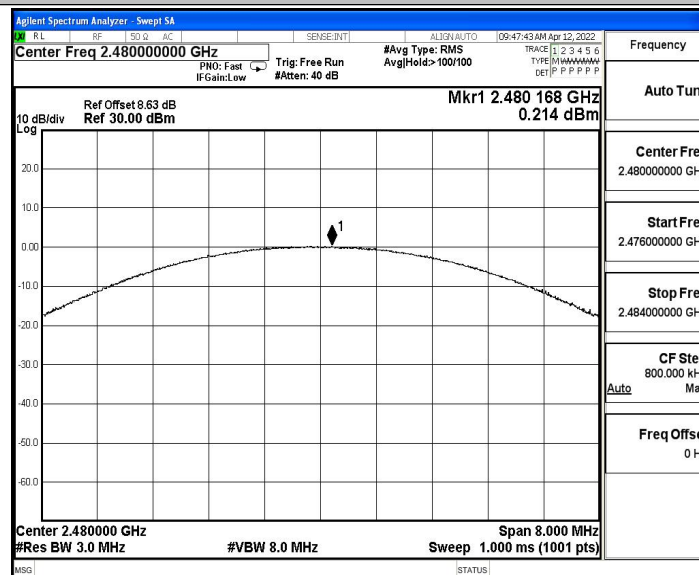
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2DH5_Ant1_2480



3DH5_Ant1_2402

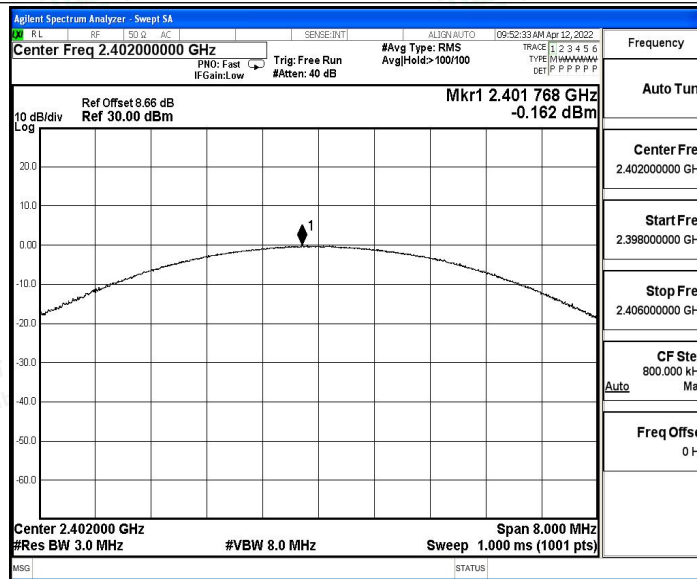


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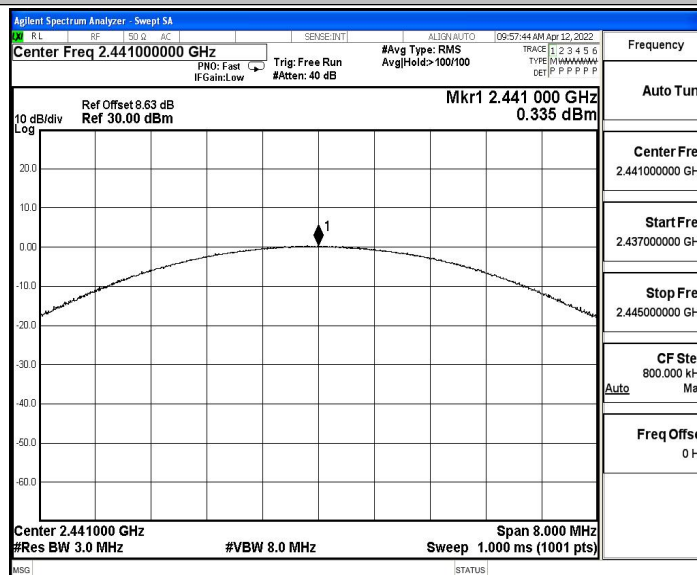
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3DH5_Ant1_2441



3DH5_Ant1_2480

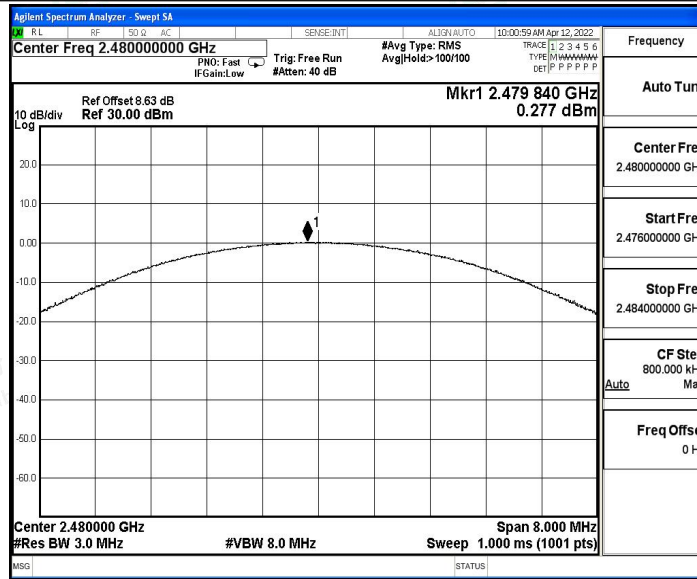


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A.3 Carrier Frequencies Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.134	≥ 1.041	PASS
2DH5	Ant1	Hop	1.308	≥ 0.876	PASS
3DH5	Ant1	Hop	1.128	≥ 0.874	PASS



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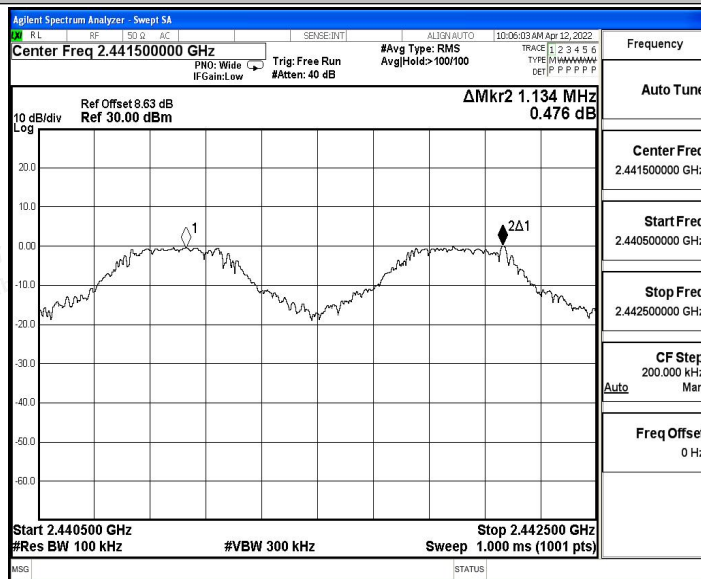
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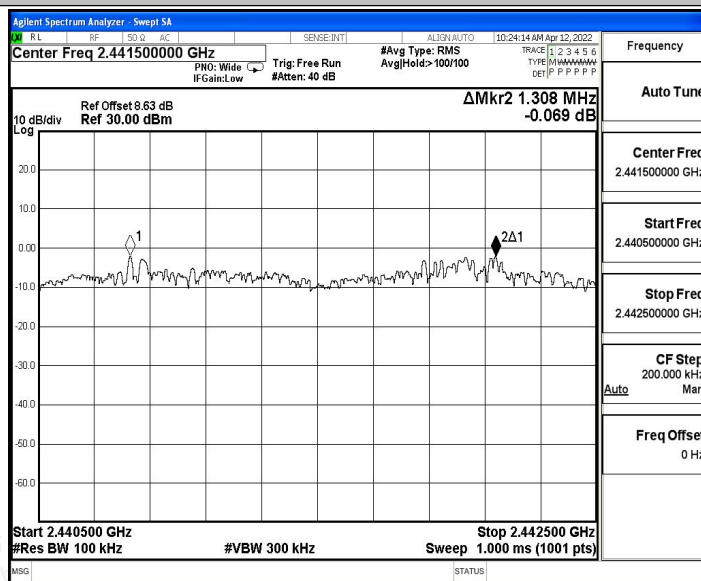


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

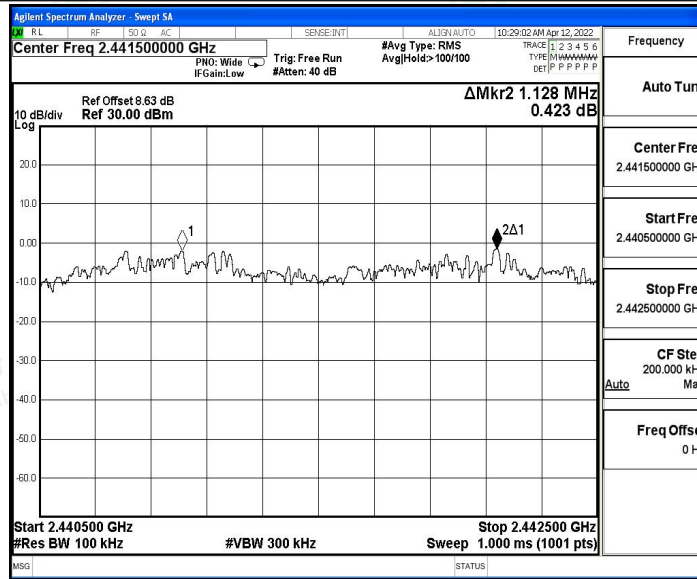


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A.4 Dwell Time

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



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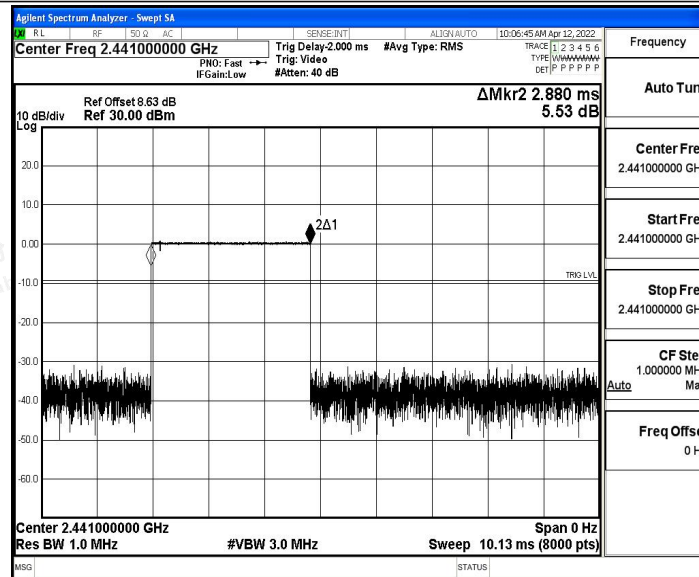
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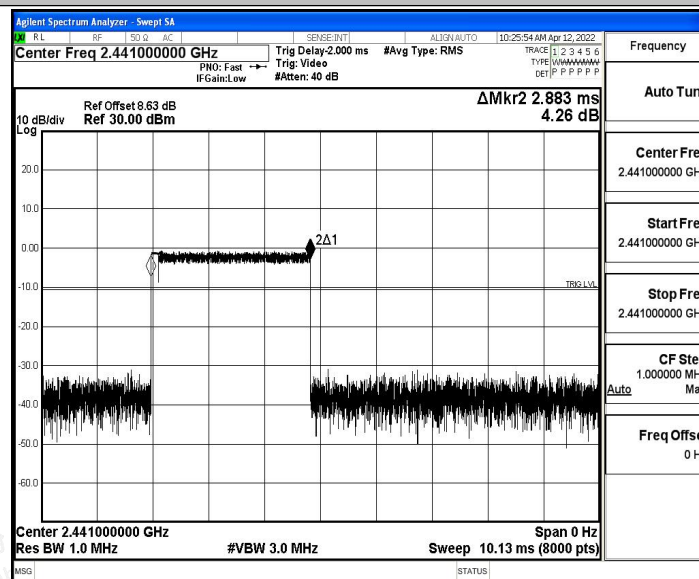


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

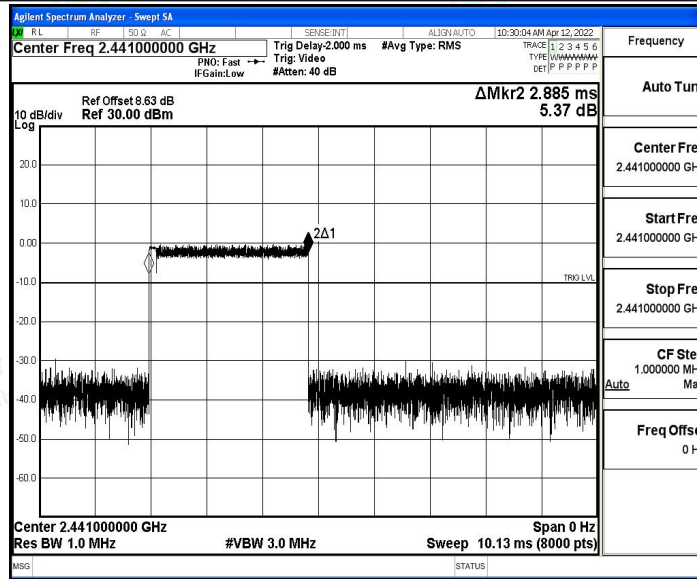


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A.5 Number of Hopping Channel

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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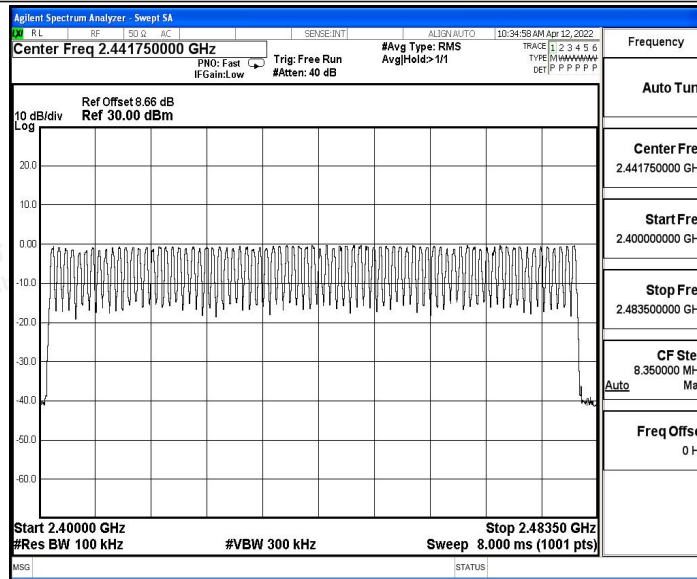
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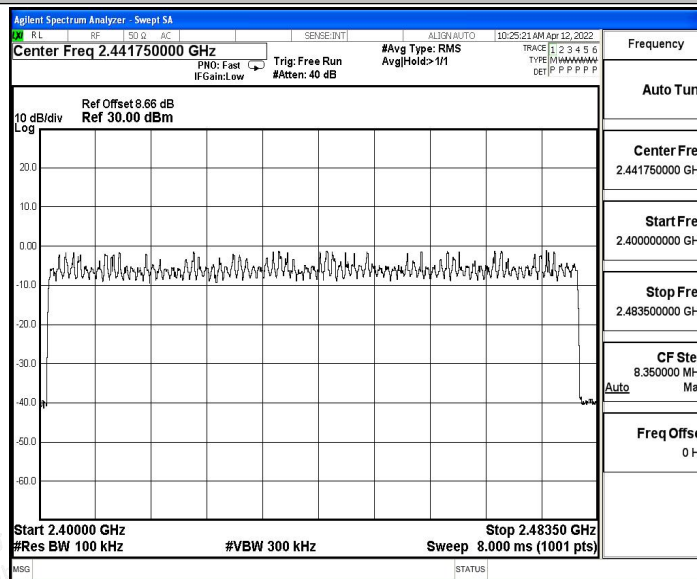


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

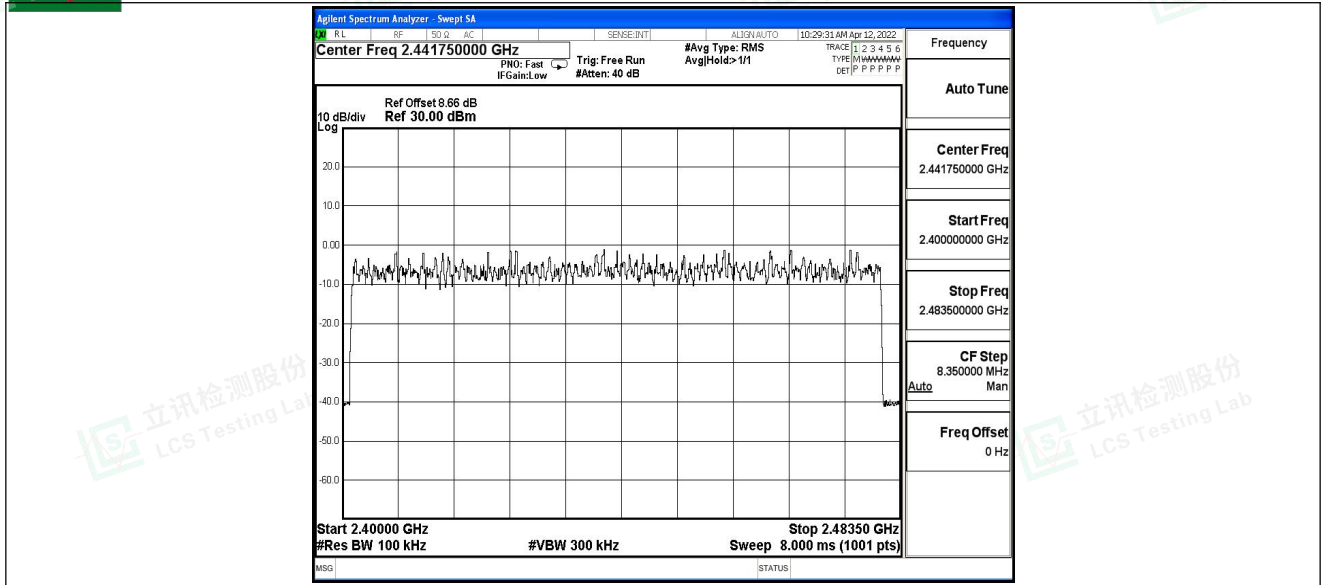


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A.6 Band Edge

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.62	-56.12	≤ -20.62	PASS
		High	2480	0.00	-57.8	≤ -20	PASS
		Low	Hop_2402	-1.73	-59.35	≤ -21.73	PASS
		High	Hop_2480	-0.42	-58.12	≤ -20.42	PASS
2DH5	Ant1	Low	2402	-2.84	-55.24	≤ -22.84	PASS
		High	2480	-1.20	-57.79	≤ -21.2	PASS
		Low	Hop_2402	-5.99	-59.02	≤ -25.99	PASS
		High	Hop_2480	-3.09	-57.85	≤ -23.09	PASS
3DH5	Ant1	Low	2402	-2.33	-56.27	≤ -22.33	PASS
		High	2480	-1.26	-57.36	≤ -21.26	PASS
		Low	Hop_2402	-4.56	-59.57	≤ -24.56	PASS
		High	Hop_2480	-2.15	-57.62	≤ -22.15	PASS



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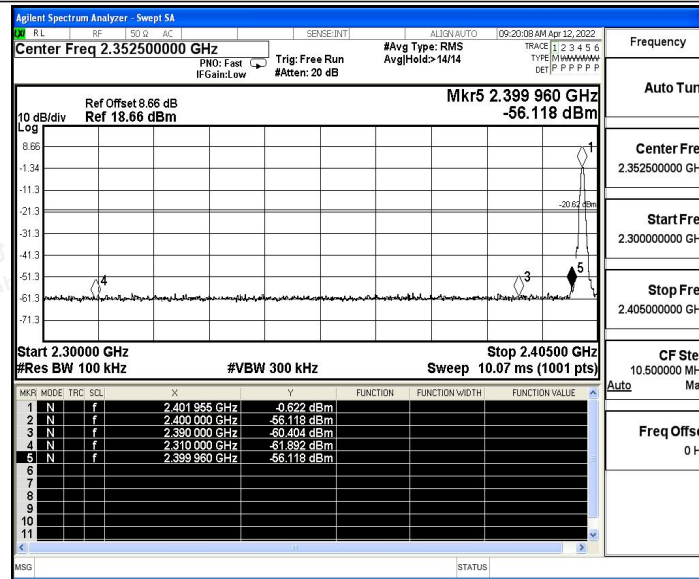
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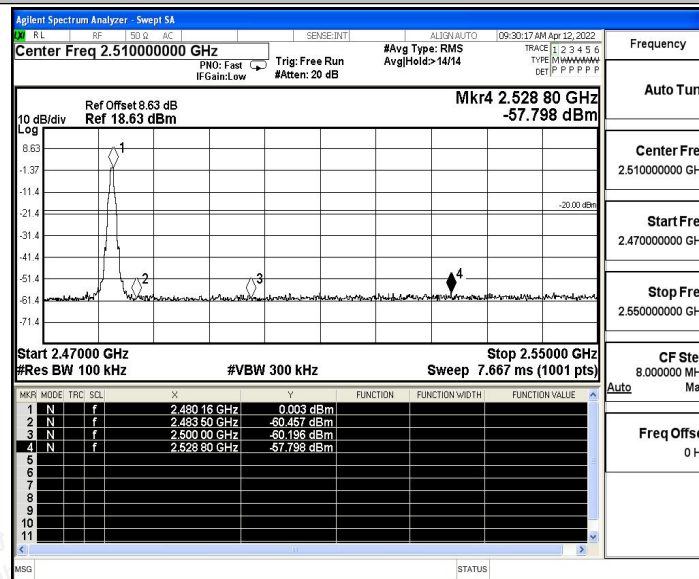


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

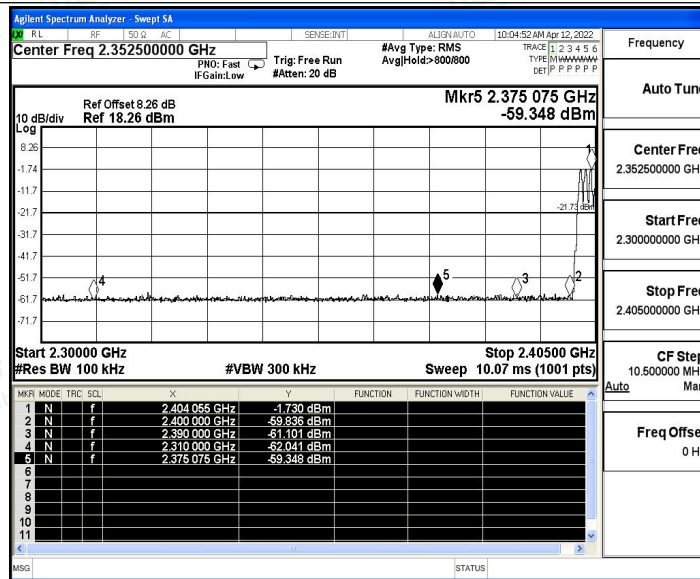


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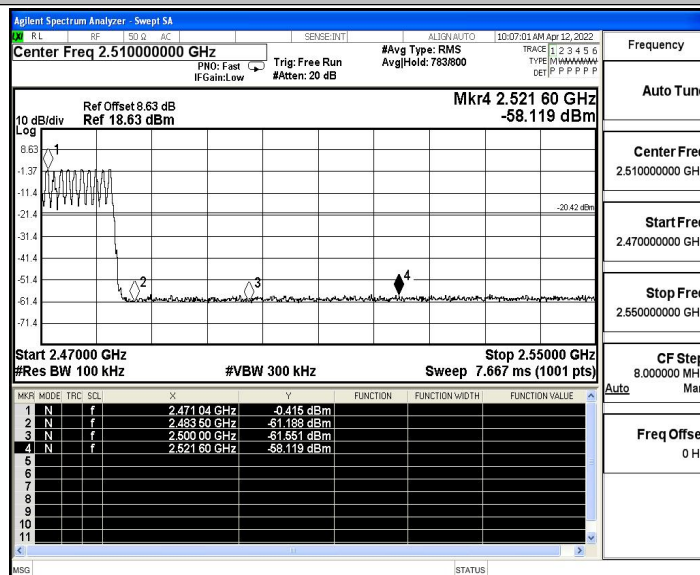
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

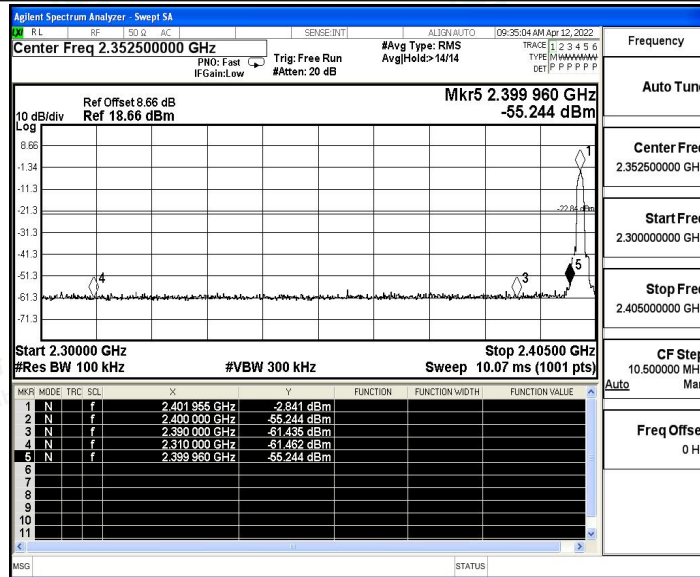


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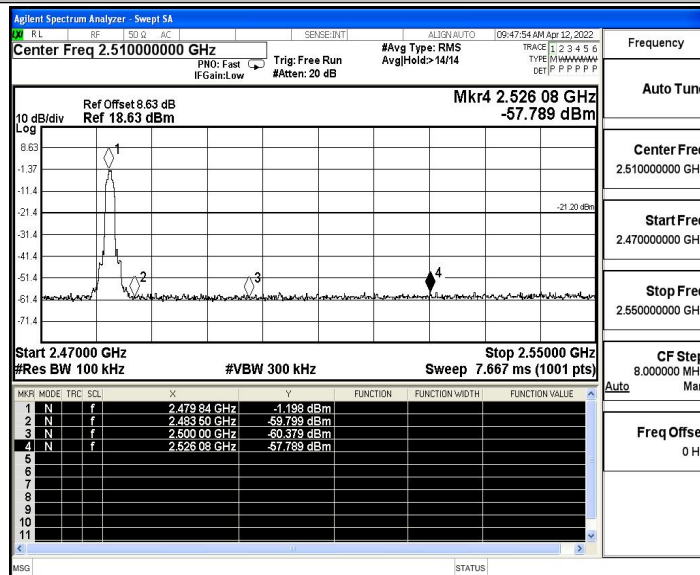
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

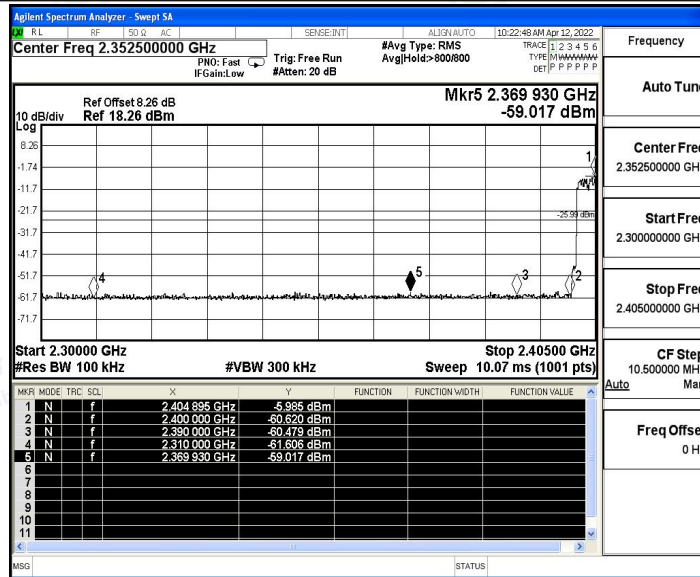


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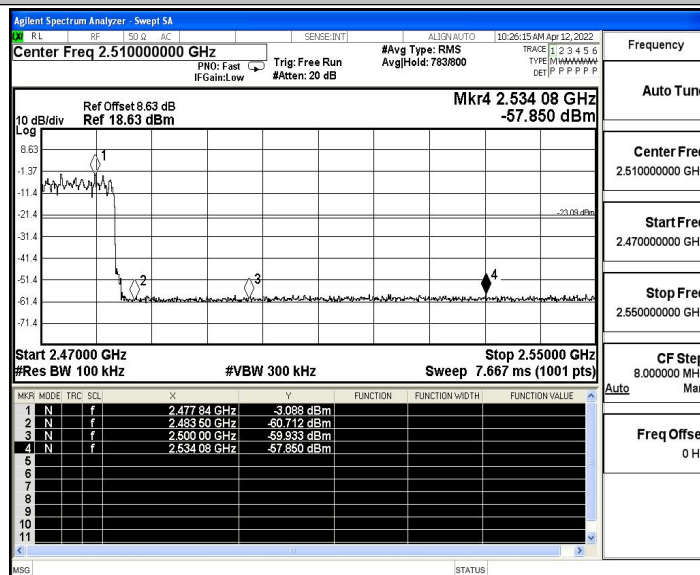
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

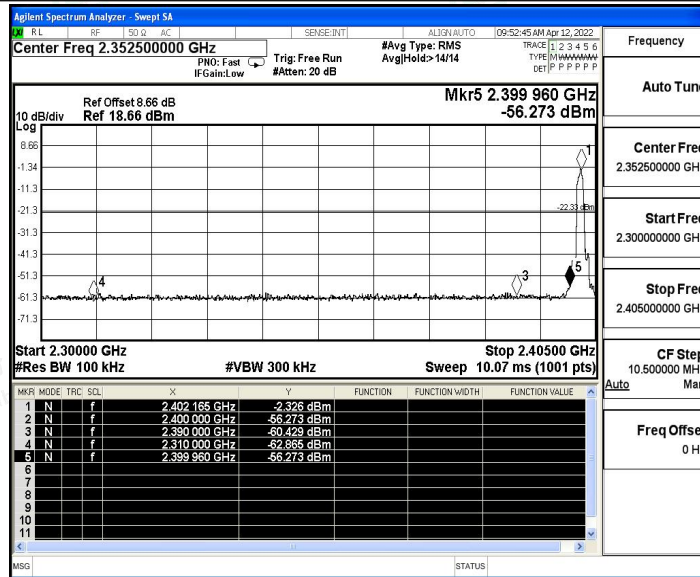


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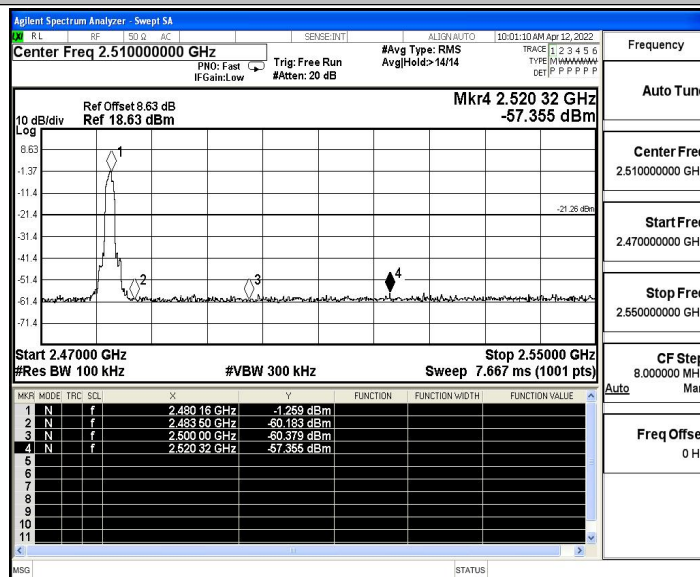
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

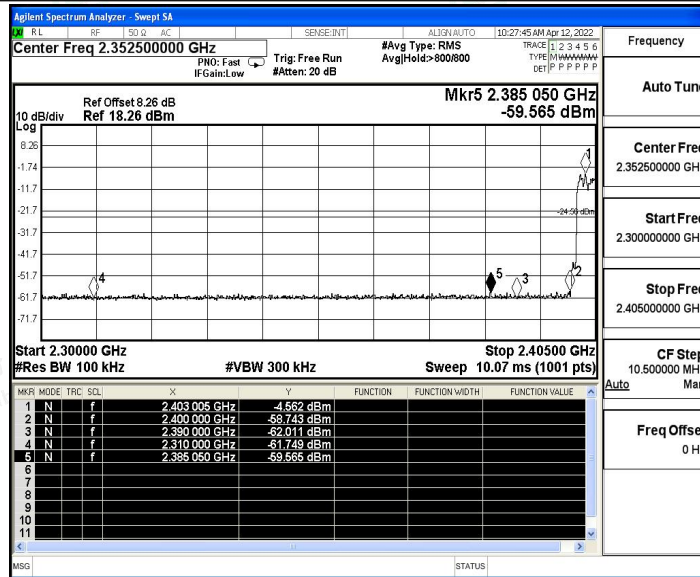


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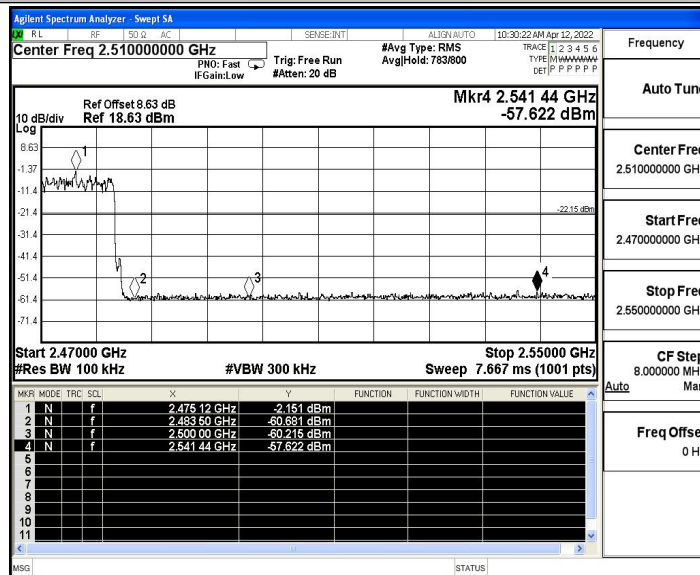
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3DH5_Ant1_High_Hop_2480



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A.7 Conducted RF Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-60.63	≤ -20.42	PASS
			1000~26500	-0.42	-45.23	≤ -20.42	PASS
		2441	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-60.56	≤ -19.92	PASS
			1000~26500	0.08	-46.17	≤ -19.92	PASS
		2480	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-60.56	≤ -19.88	PASS
			1000~26500	0.12	-45.84	≤ -19.88	PASS
2DH5	Ant1	2402	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-60.11	≤ -21.84	PASS
			1000~26500	-1.84	-45.82	≤ -21.84	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-60.41	≤ -21.11	PASS
			1000~26500	-1.11	-46.19	≤ -21.11	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-60.18	≤ -21.17	PASS
			1000~26500	-1.17	-45.68	≤ -21.17	PASS
3DH5	Ant1	2402	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-60.29	≤ -21.74	PASS
			1000~26500	-1.74	-45.55	≤ -21.74	PASS
		2441	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-60.31	≤ -21.27	PASS
			1000~26500	-1.27	-46.09	≤ -21.27	PASS
		2480	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-60.3	≤ -21.25	PASS
			1000~26500	-1.25	-45.89	≤ -21.25	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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

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