



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: True Wireless Earbuds

Test Model: ZT000035

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 Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.071	2401.454	2402.525	---	---
		2441	1.062	2440.463	2441.525	---	---
		2480	1.071	2479.454	2480.525	---	---
2DH5	Ant1	2402	1.332	2401.337	2402.669	---	---
		2441	1.335	2440.337	2441.672	---	---
		2480	1.332	2479.343	2480.675	---	---
3DH5	Ant1	2402	1.272	2401.340	2402.612	---	---
		2441	1.332	2440.337	2441.669	---	---
		2480	1.338	2479.340	2480.678	---	---



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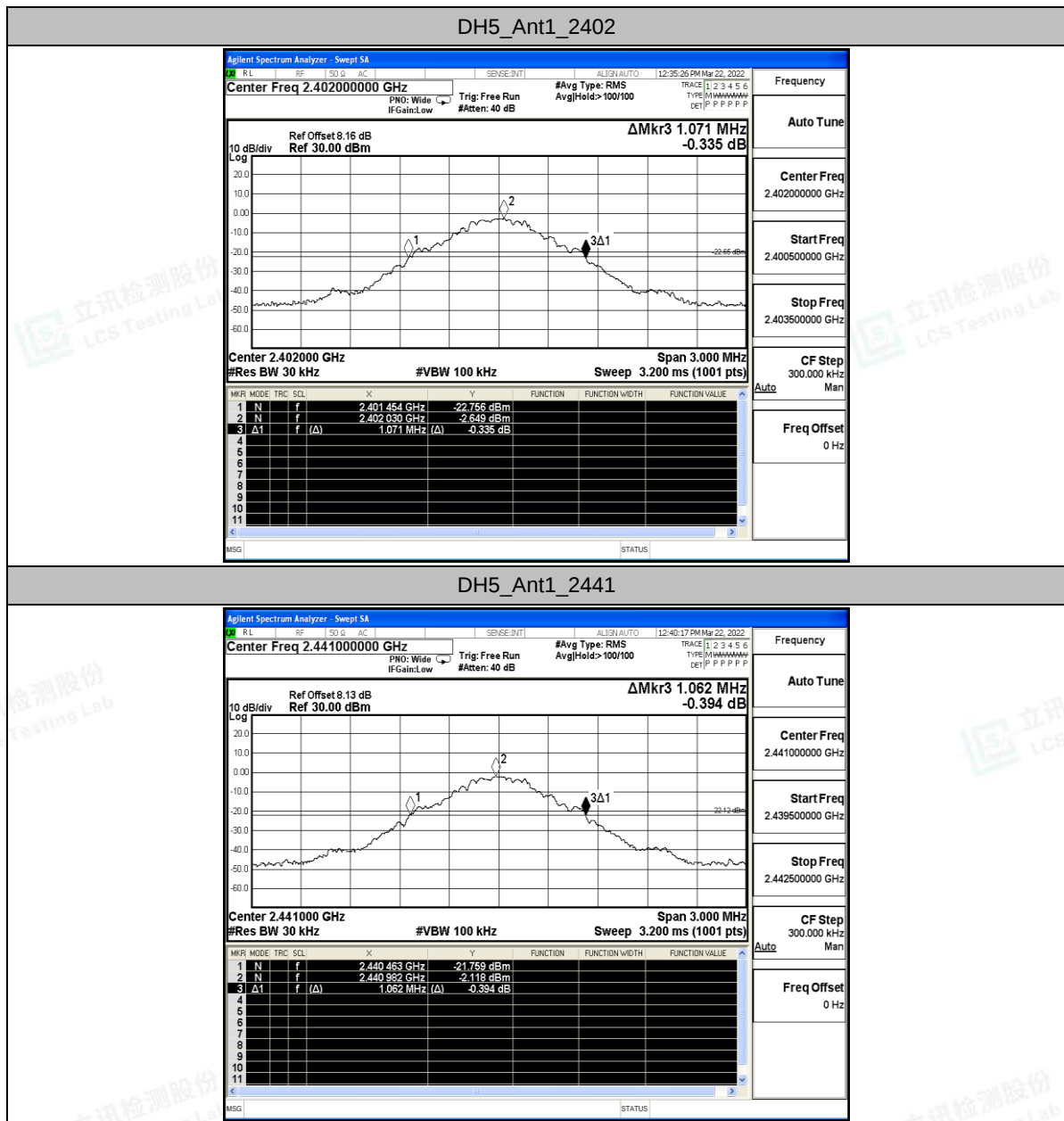
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Test Graphs



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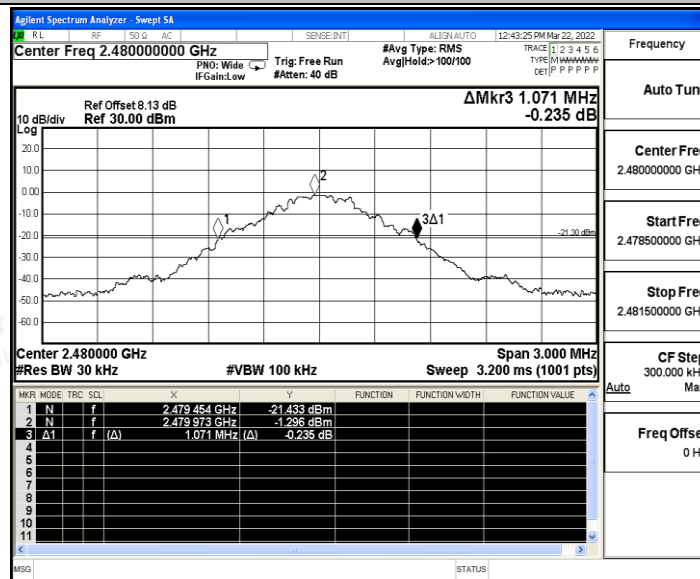
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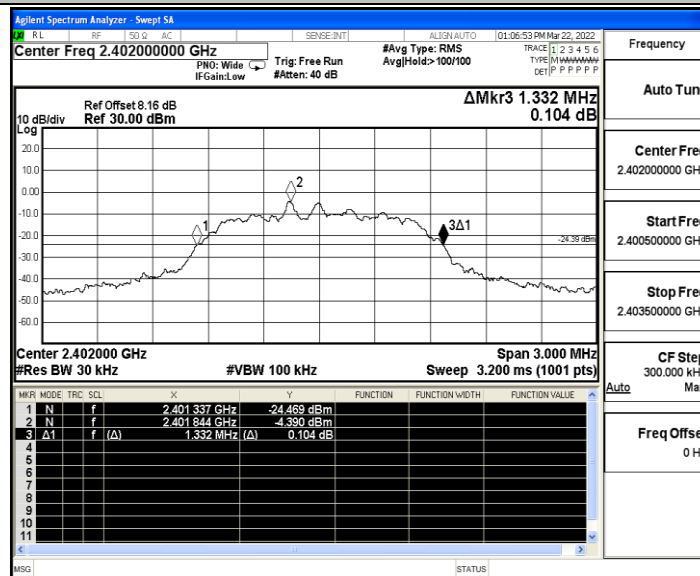
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DH5_Ant1_2480



2DH5_Ant1_2402



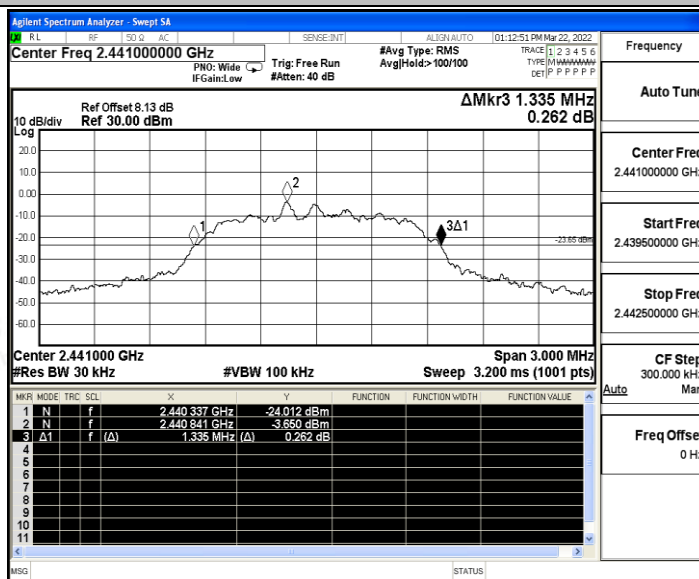
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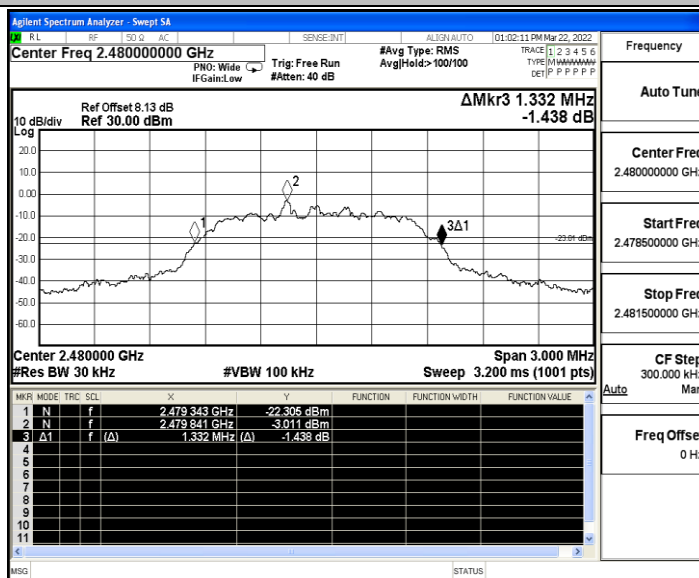
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2DH5 Ant1 2441



2DH5 Ant1 2480



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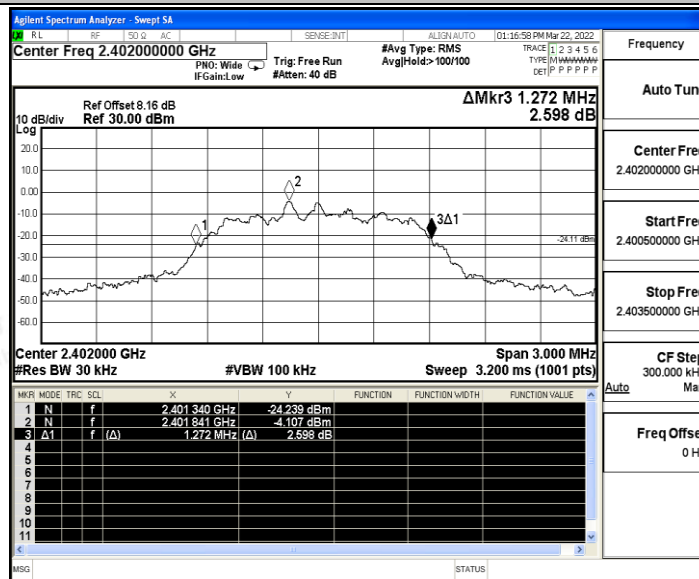
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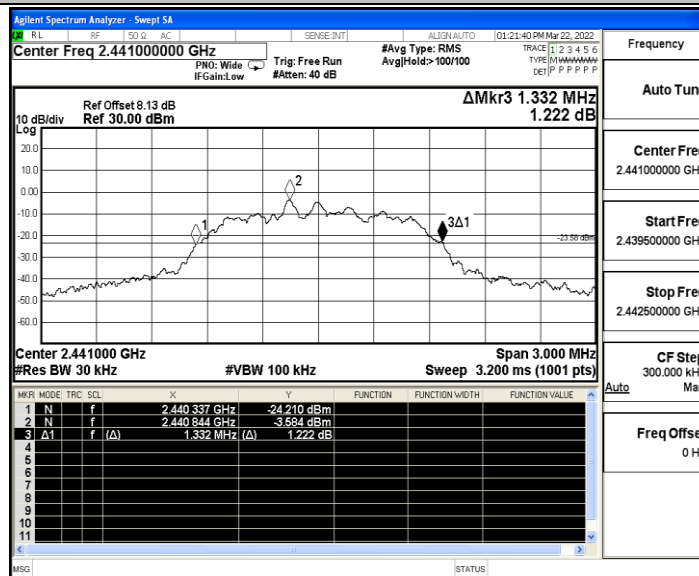
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3DH5_Ant1_2402



3DH5_Ant1_2441



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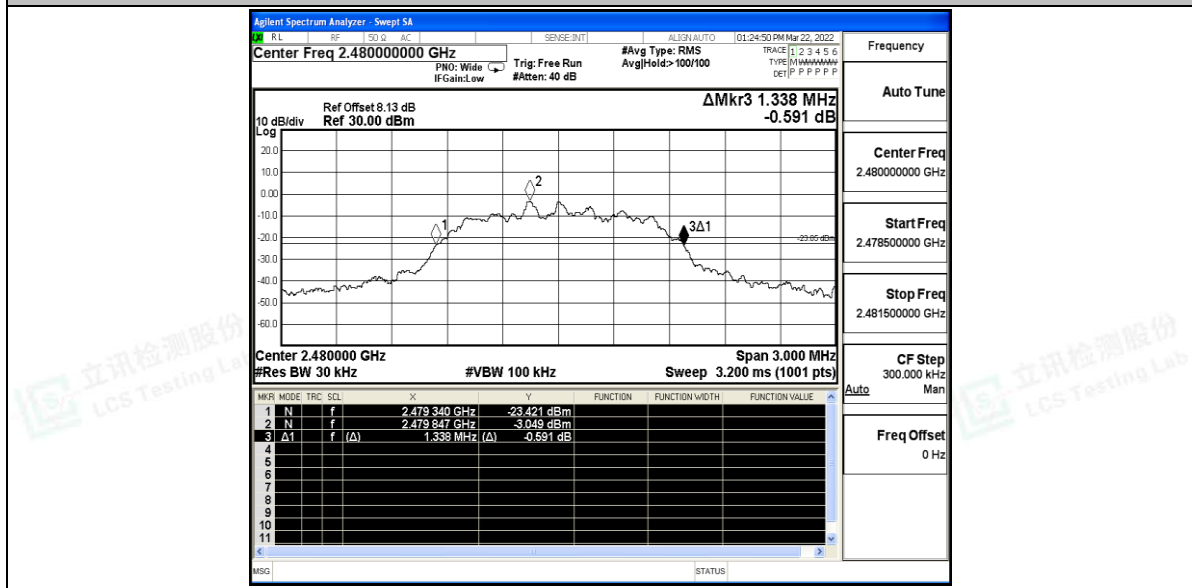
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3DH5_Ant1_2480



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.4	≤20.97	PASS
		2441	0.86	≤20.97	PASS
		2480	1.75	≤20.97	PASS
2DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-0.15	≤20.97	PASS
		2480	0.56	≤20.97	PASS
3DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.08	≤20.97	PASS
		2480	0.7	≤20.97	PASS



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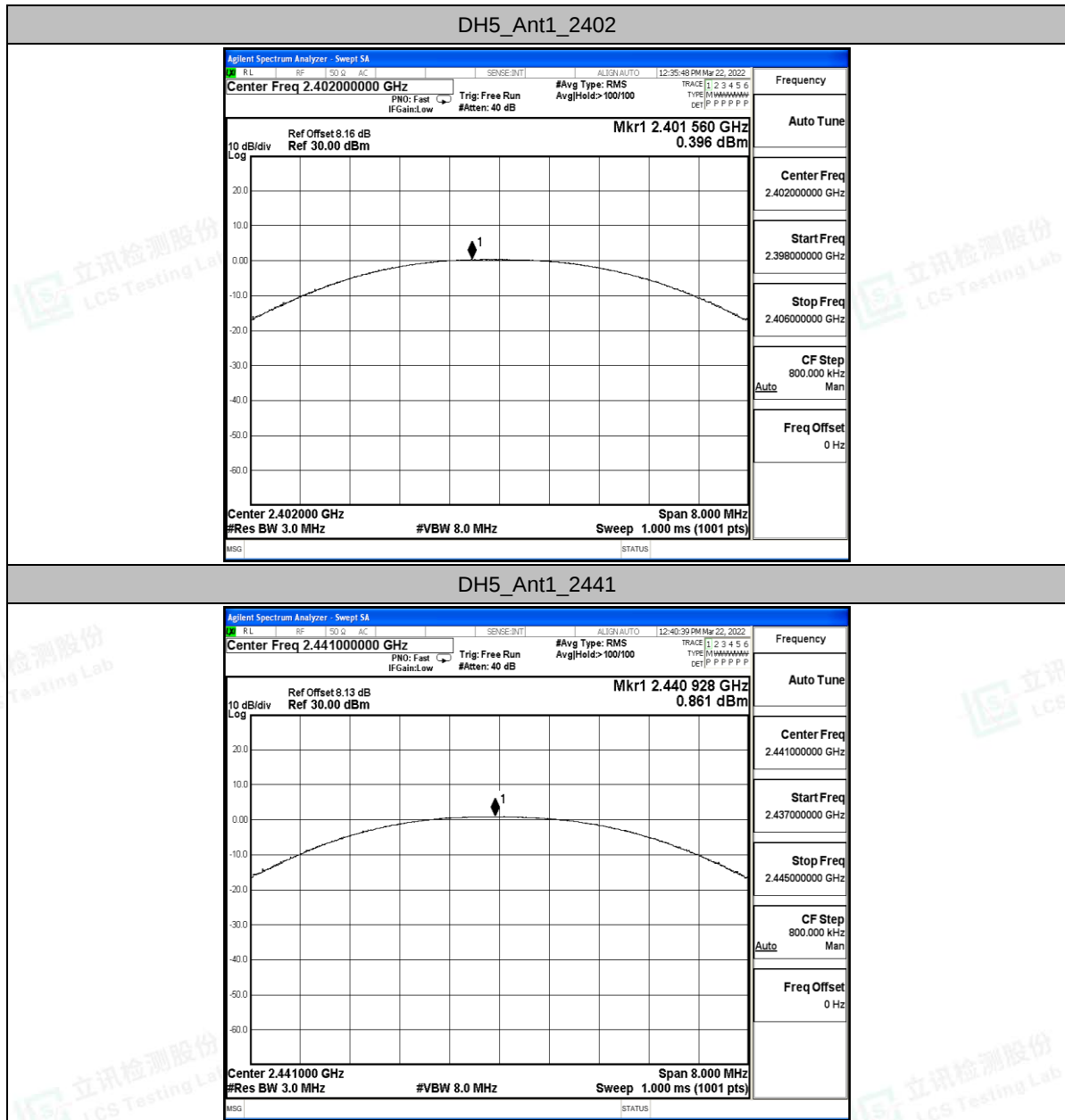
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Test Graphs



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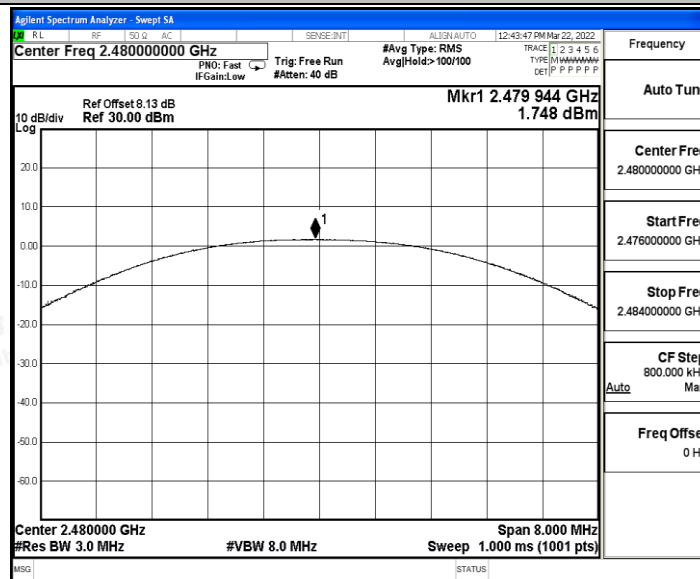
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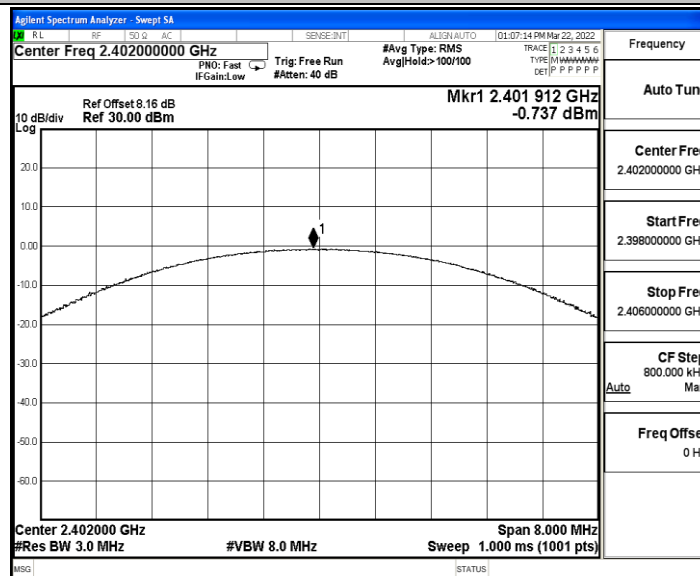
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DH5_Ant1_2480



2DH5_Ant1_2402



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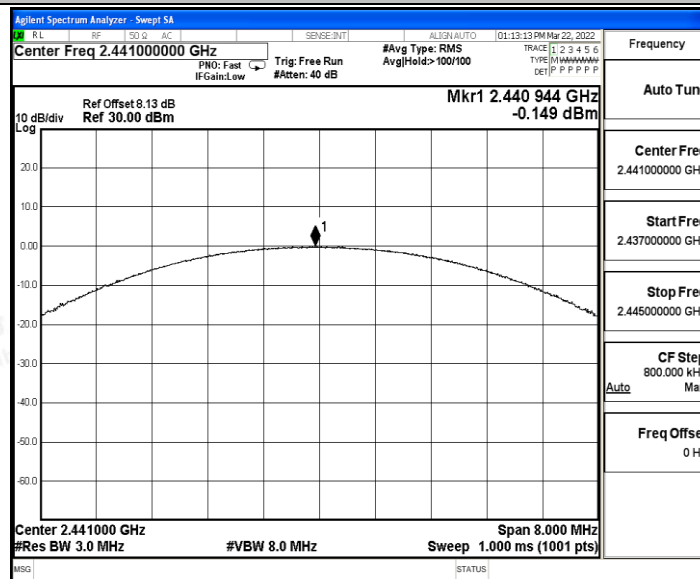
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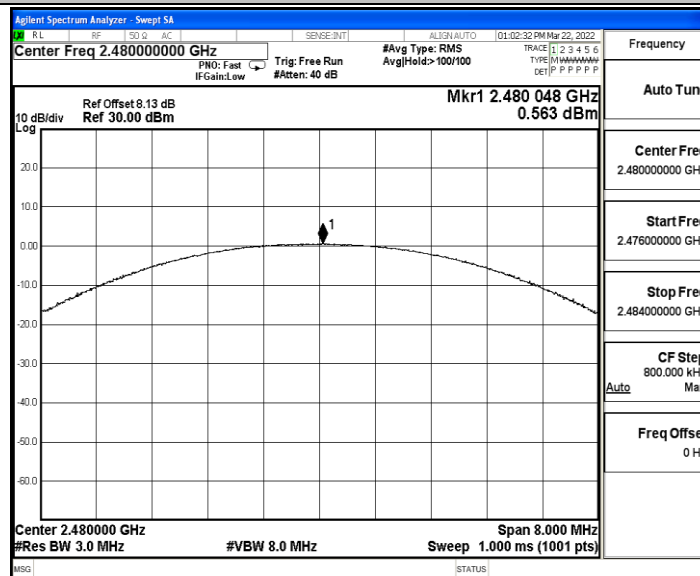
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2DH5_Ant1_2441



2DH5_Ant1_2480



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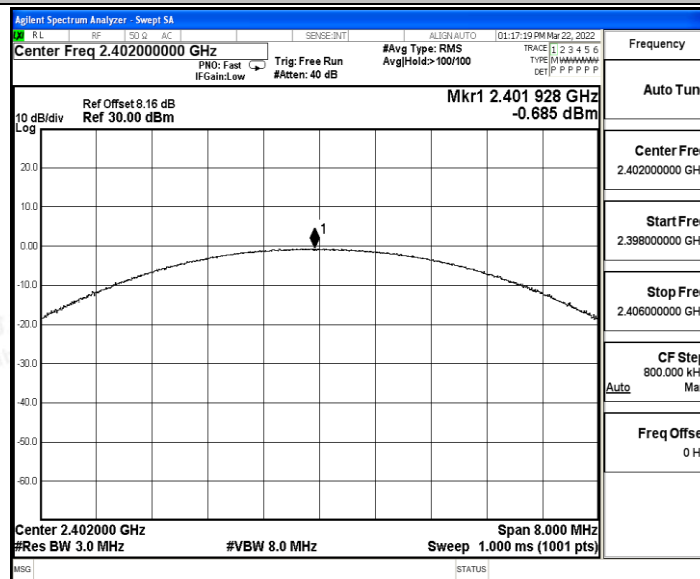
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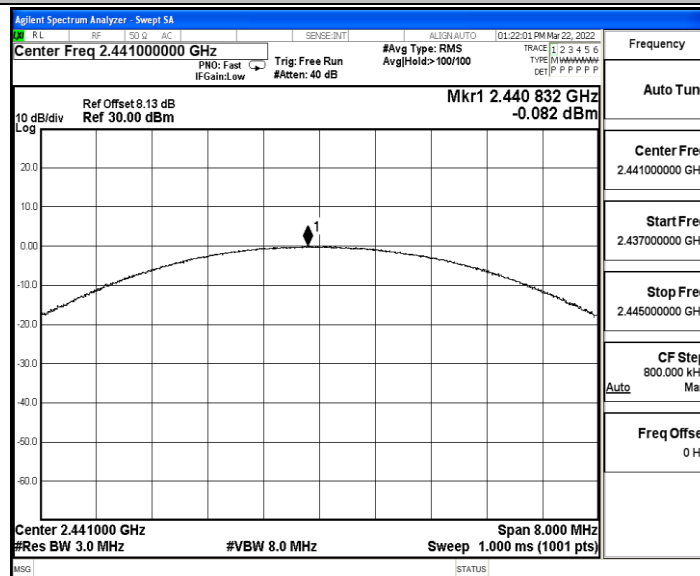
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3DH5_Ant1_2402



3DH5_Ant1_2441



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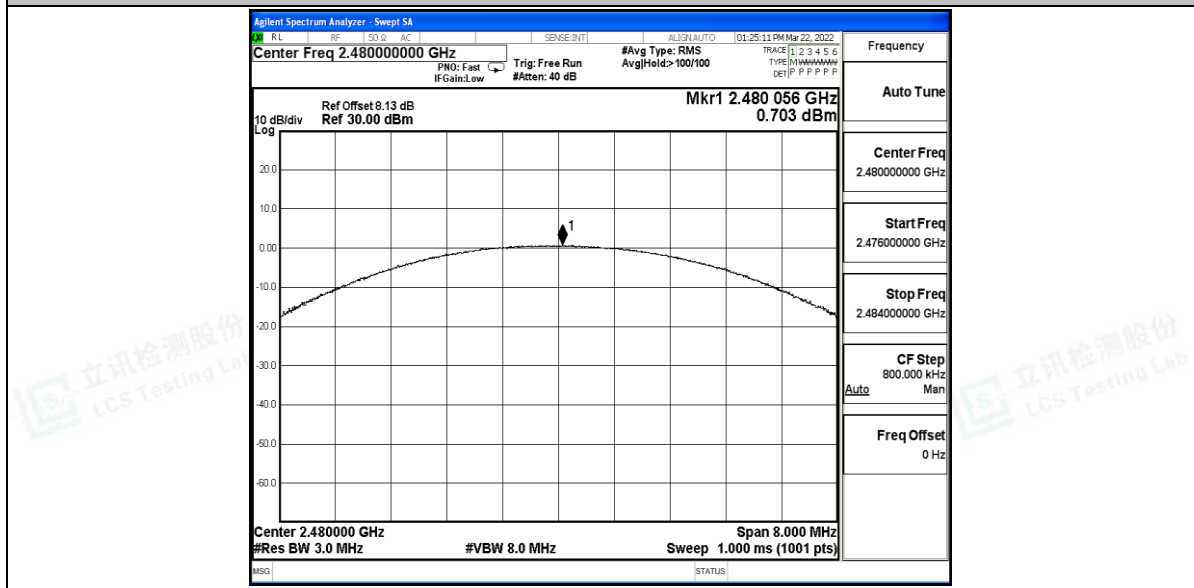
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3DH5_Ant1_2480



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A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.902	≥ 0.714	PASS
2DH5	Ant1	Hop	0.966	≥ 0.890	PASS
3DH5	Ant1	Hop	1.126	≥ 0.892	PASS



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Test Graphs



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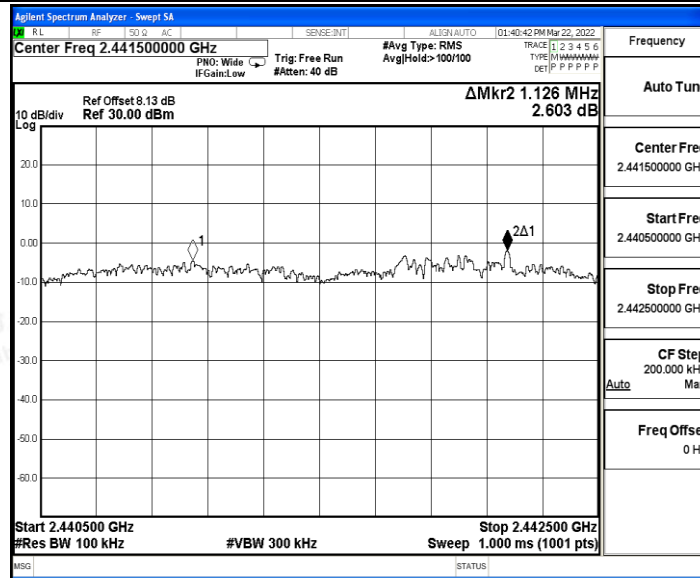
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3DH5_Ant1_Hop



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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	2.87	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS



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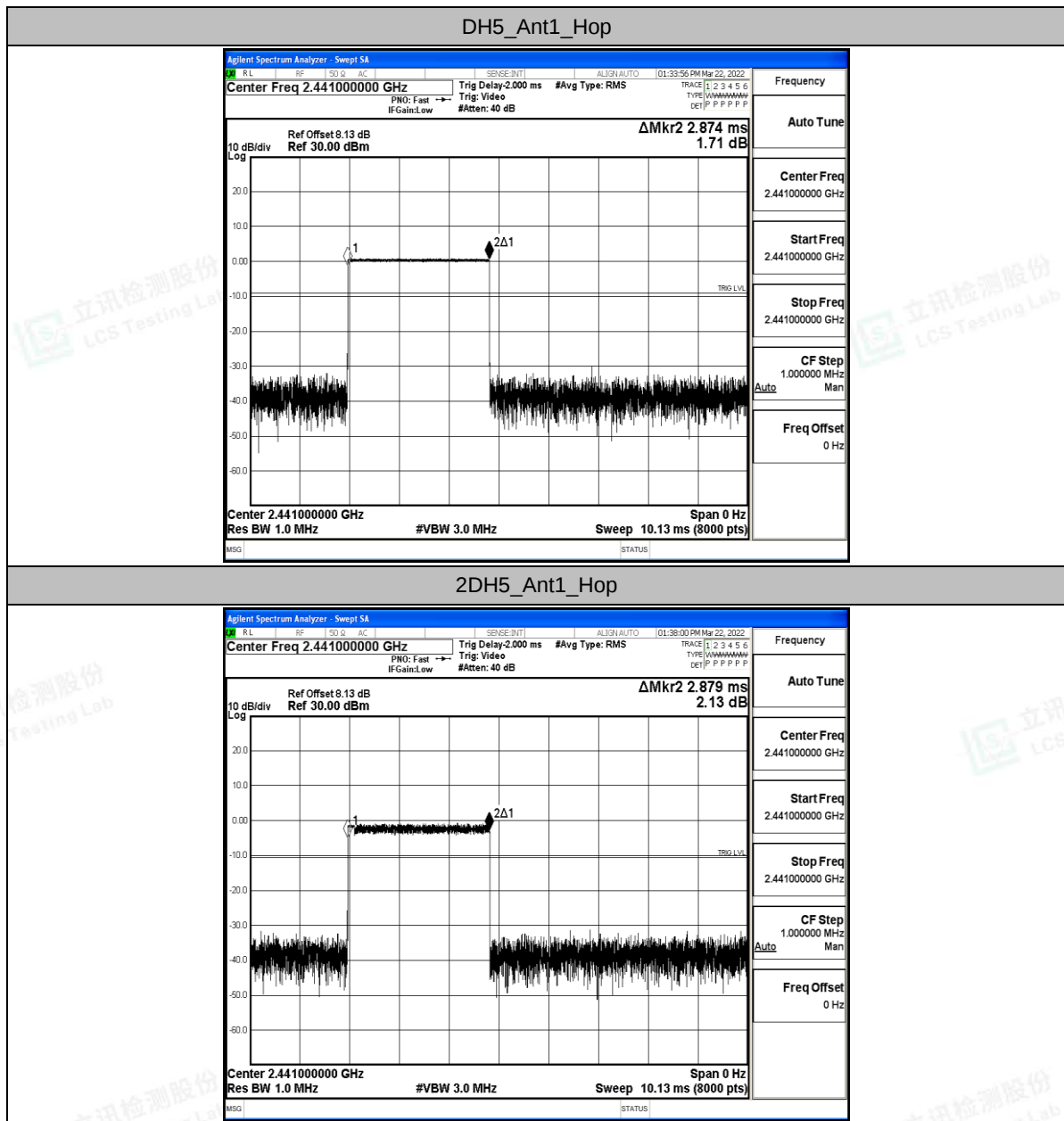
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Test Graphs



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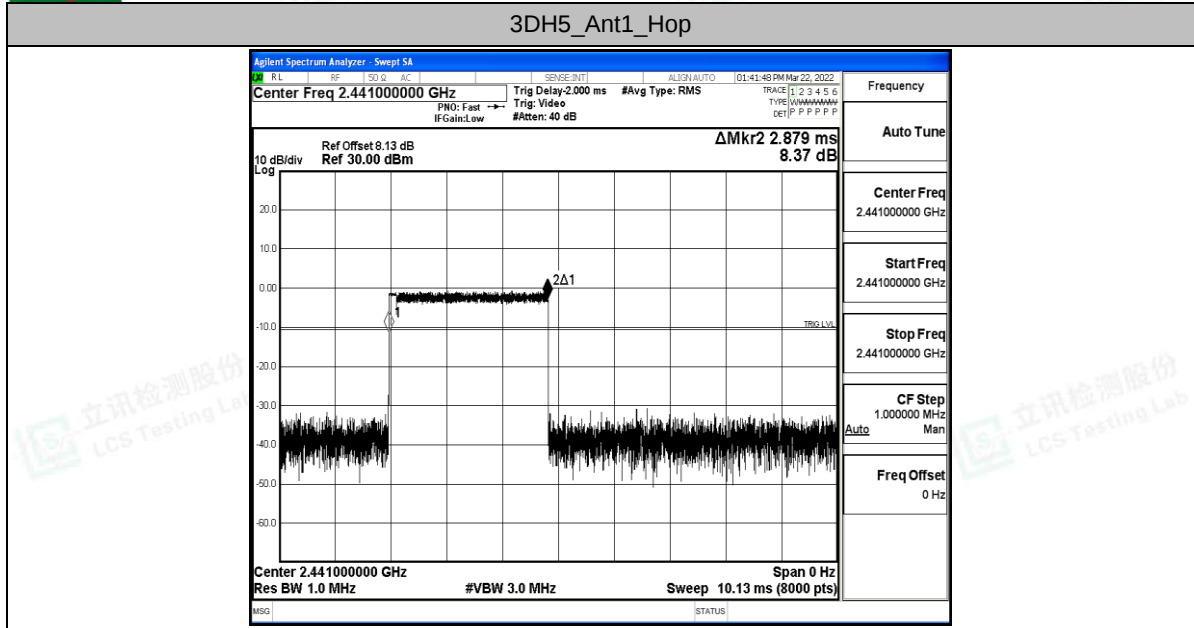
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3DH5_Ant1_Hop



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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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Test Graphs



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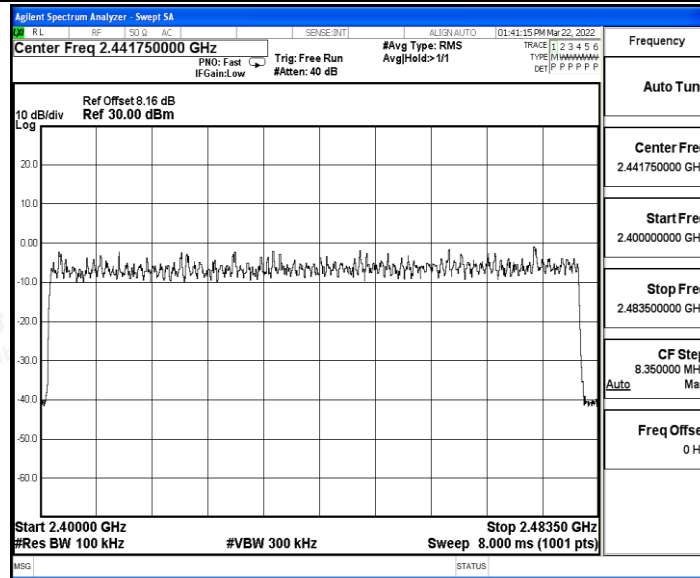
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3DH5_Ant1_Hop



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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	-0.28	-49.18	≤ -20.28	PASS
		High	2480	1.02	-46.89	≤ -18.98	PASS
		Low	Hop_2402	-0.90	-48.87	≤ -20.9	PASS
		High	Hop_2480	0.78	-48.2	≤ -19.22	PASS
2DH5	Ant1	Low	2402	-2.21	-49.33	≤ -22.21	PASS
		High	2480	-0.78	-47.62	≤ -20.78	PASS
		Low	Hop_2402	-6.81	-49.97	≤ -26.81	PASS
		High	Hop_2480	-3.80	-48.45	≤ -23.8	PASS
3DH5	Ant1	Low	2402	-2.09	-49.1	≤ -22.09	PASS
		High	2480	-0.75	-48.49	≤ -20.75	PASS
		Low	Hop_2402	-4.07	-49.66	≤ -24.07	PASS
		High	Hop_2480	-1.88	-48.19	≤ -21.88	PASS



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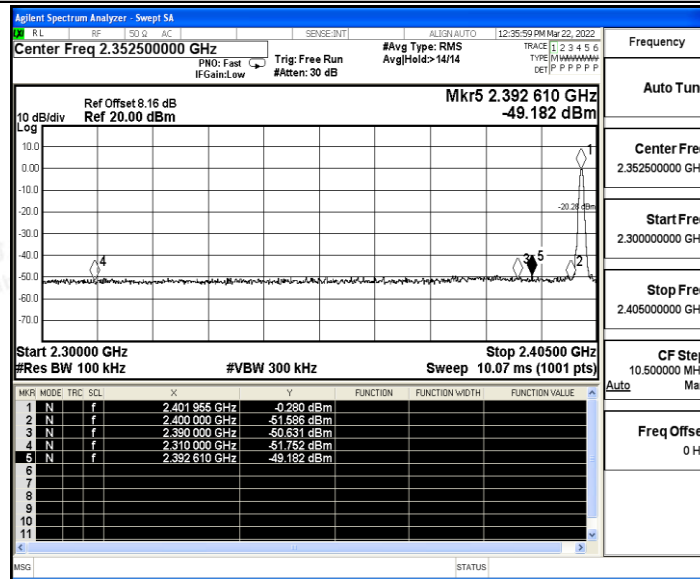
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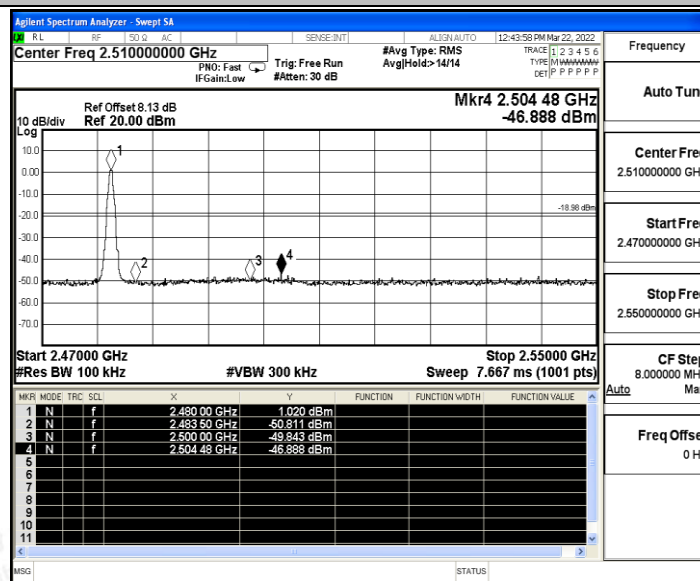


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



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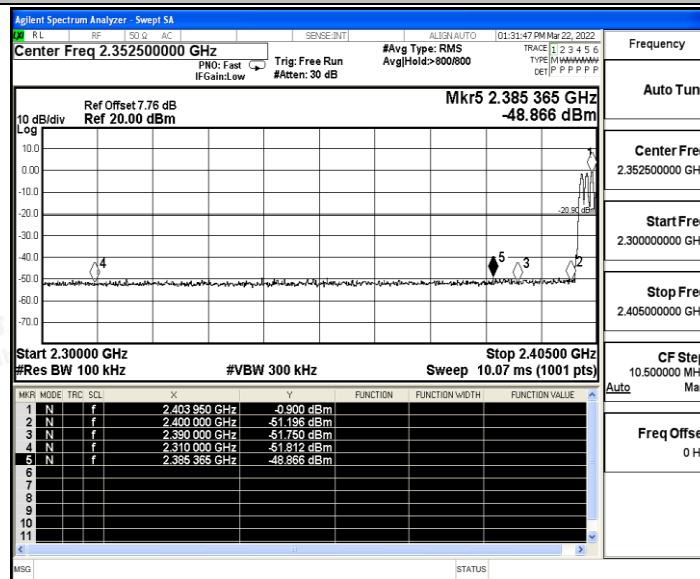
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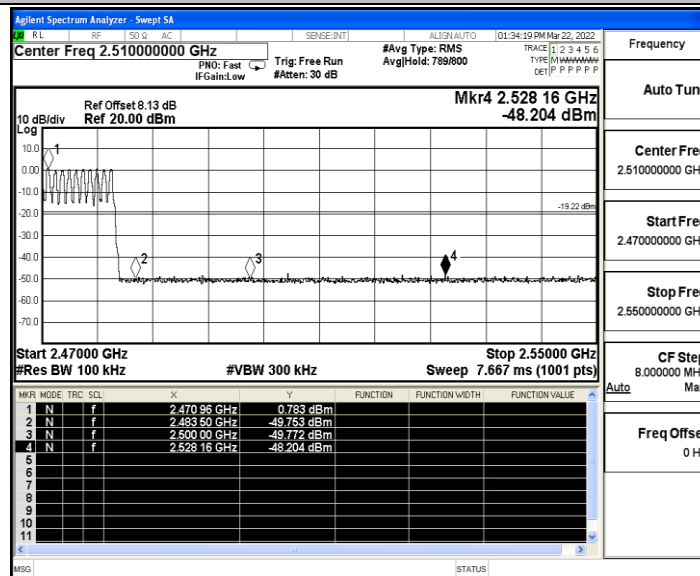
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DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



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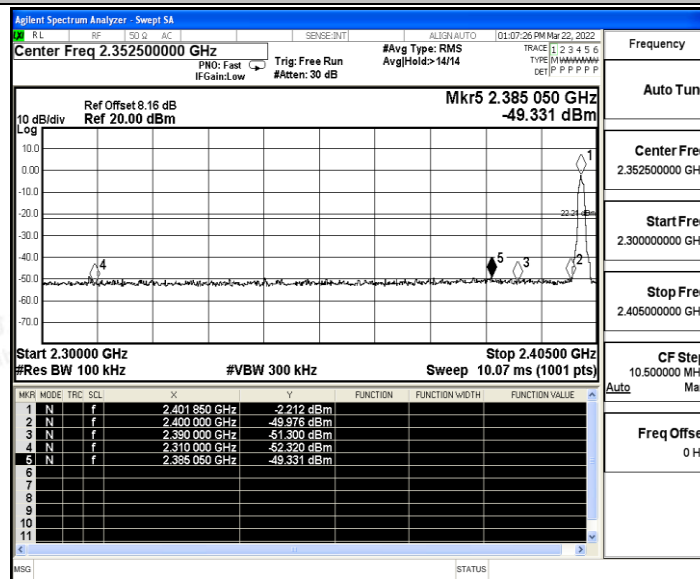
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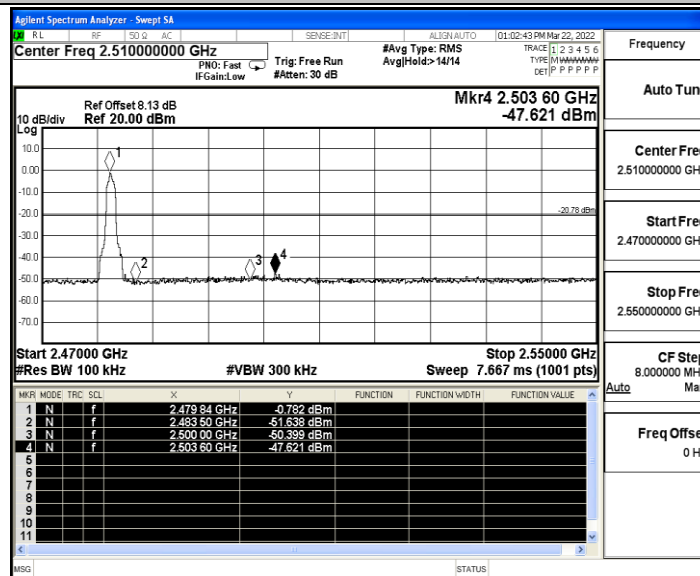
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2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



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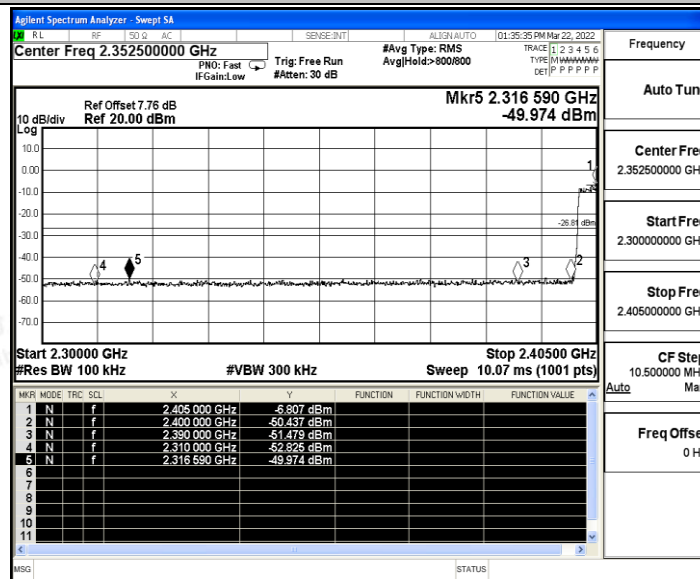
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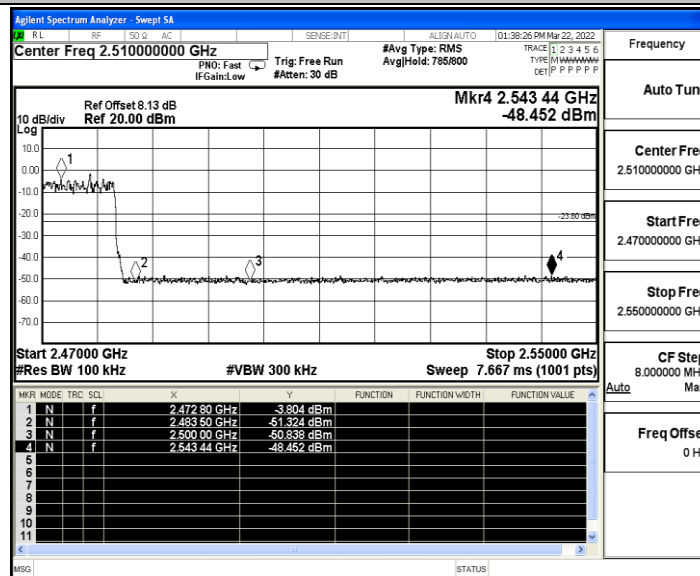
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2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



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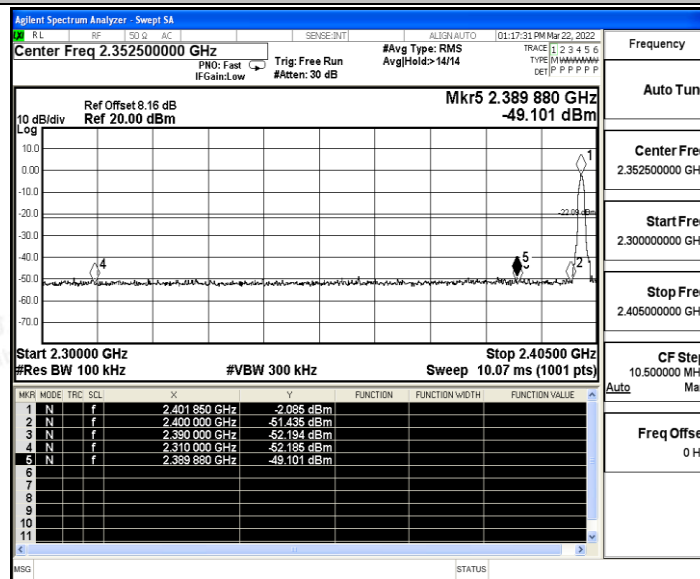
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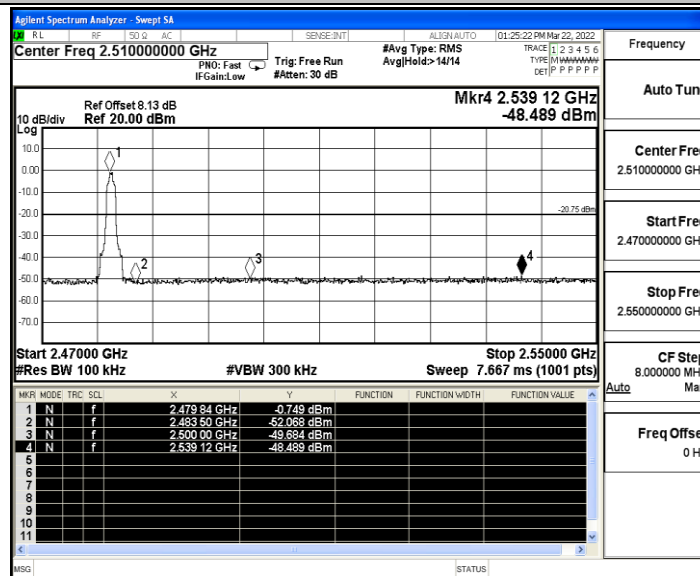
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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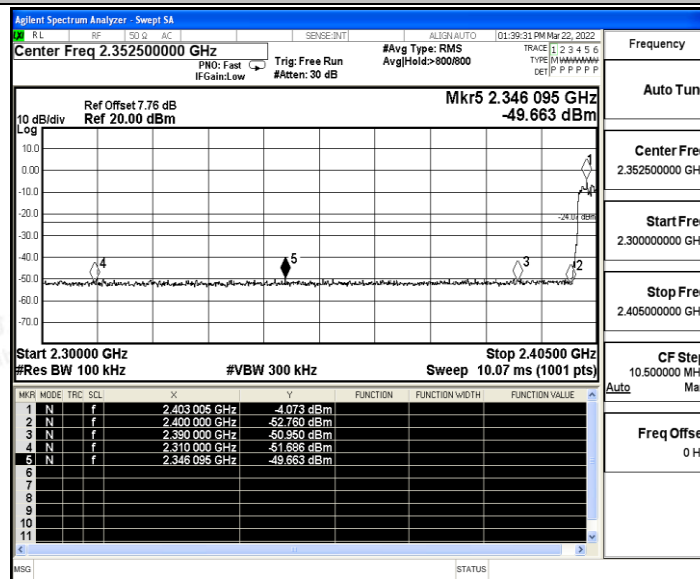
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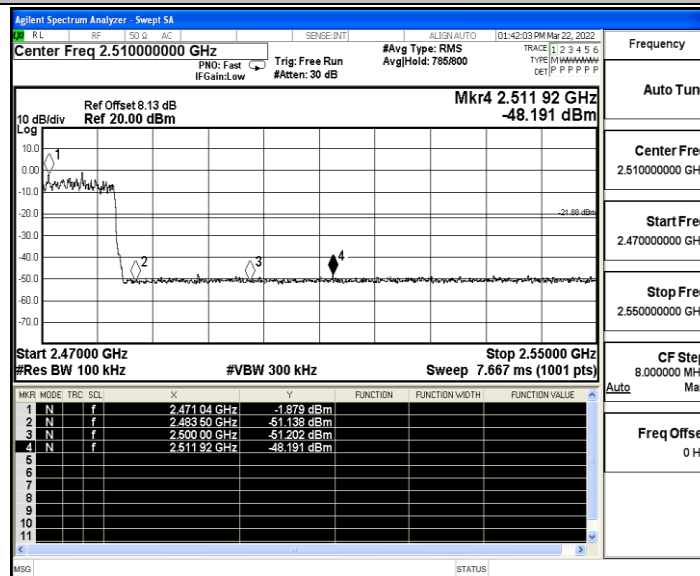
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3DH5_Ant1_Low_Hop_2402



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	-0.50	-0.50	---	PASS
			30~1000	-0.50	-56.67	≤ -20.5	PASS
			1000~26500	-0.50	-45.01	≤ -20.5	PASS
		2441	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-57.9	≤ -20.01	PASS
			1000~26500	-0.01	-46.37	≤ -20.01	PASS
		2480	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-57.27	≤ -19.07	PASS
			1000~26500	0.93	-46.73	≤ -19.07	PASS
2DH5	Ant1	2402	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-57.4	≤ -22.2	PASS
			1000~26500	-2.20	-46.55	≤ -22.2	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-58.2	≤ -21.71	PASS
			1000~26500	-1.71	-46.61	≤ -21.71	PASS
		2480	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-57.1	≤ -20.8	PASS
			1000~26500	-0.80	-46.46	≤ -20.8	PASS
3DH5	Ant1	2402	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-58.21	≤ -22.14	PASS
			1000~26500	-2.14	-45.58	≤ -22.14	PASS
		2441	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-58.18	≤ -21.61	PASS
			1000~26500	-1.61	-46.88	≤ -21.61	PASS
		2480	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-57.6	≤ -20.71	PASS
			1000~26500	-0.71	-46.4	≤ -20.71	PASS



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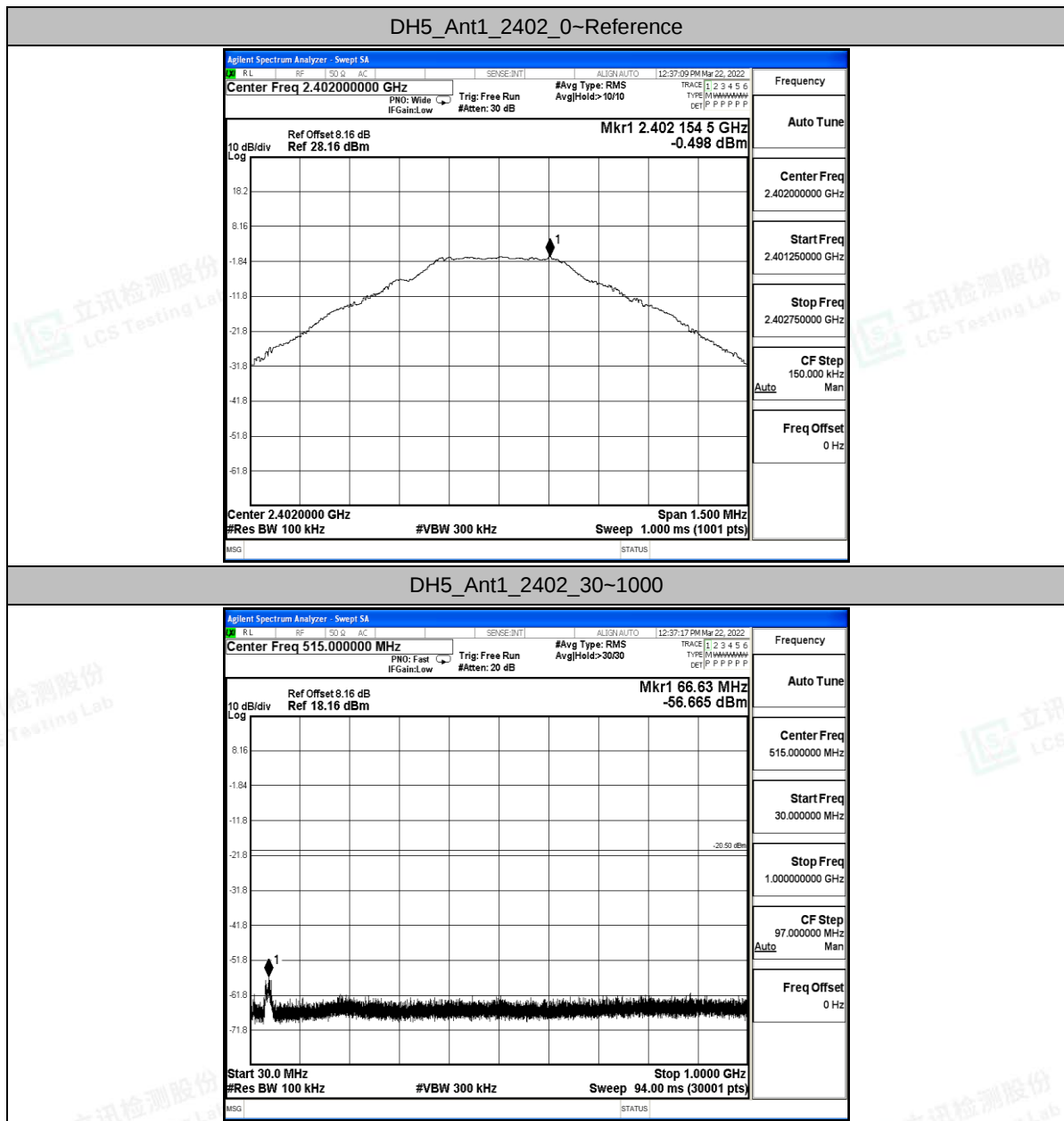
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Test Graphs



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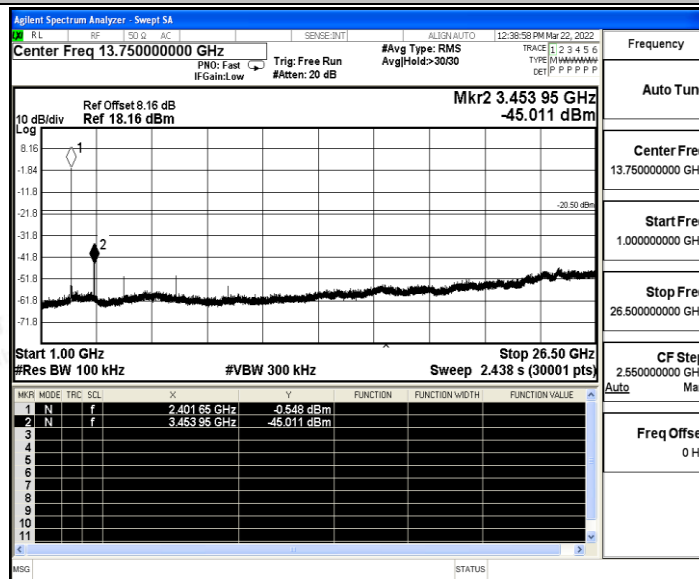
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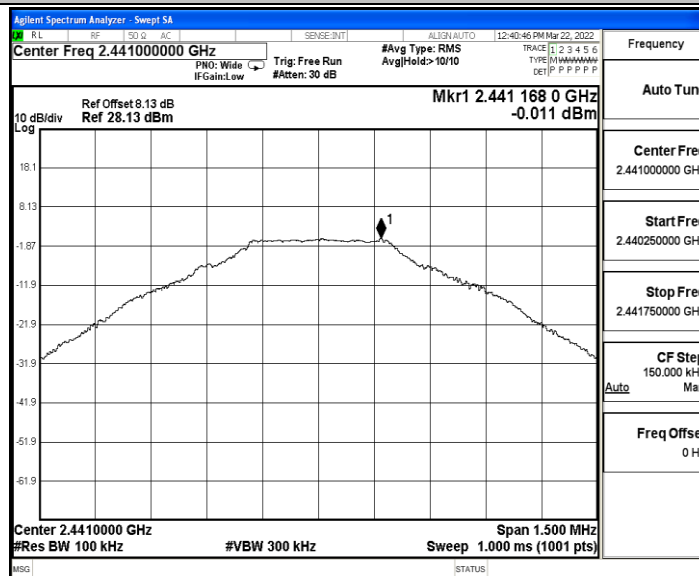
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DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



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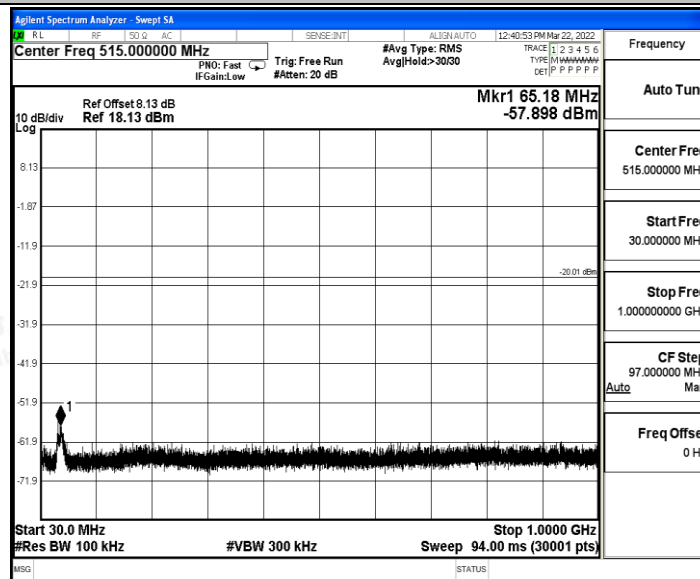
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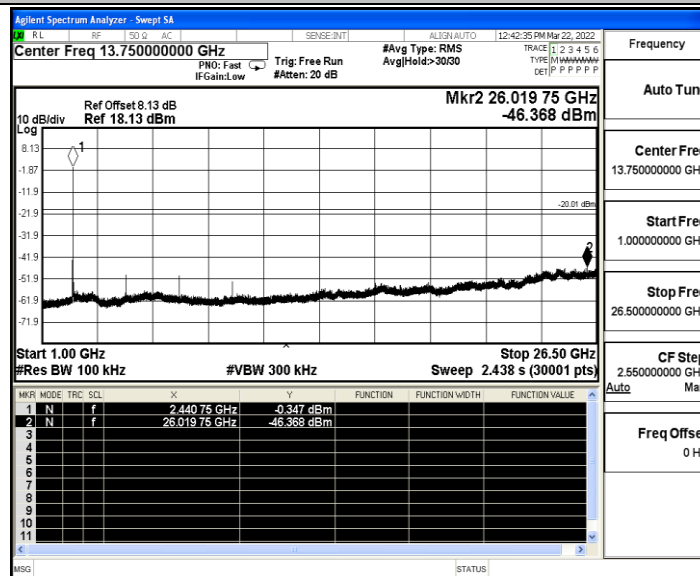
Scan code to check authenticity



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



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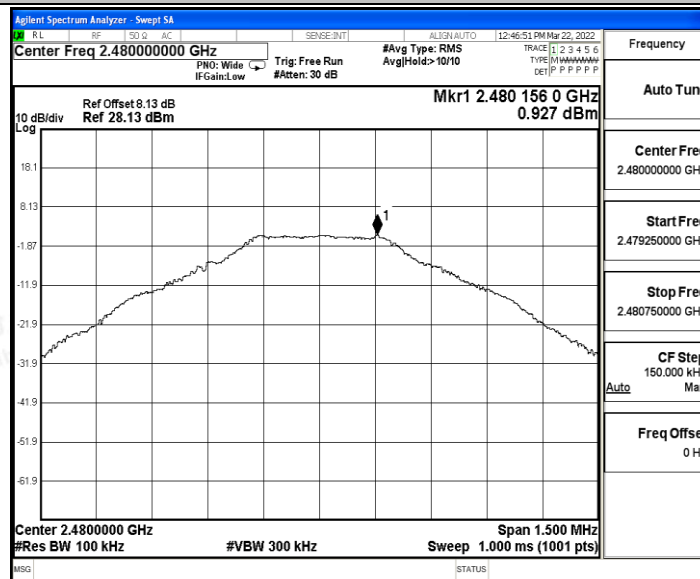
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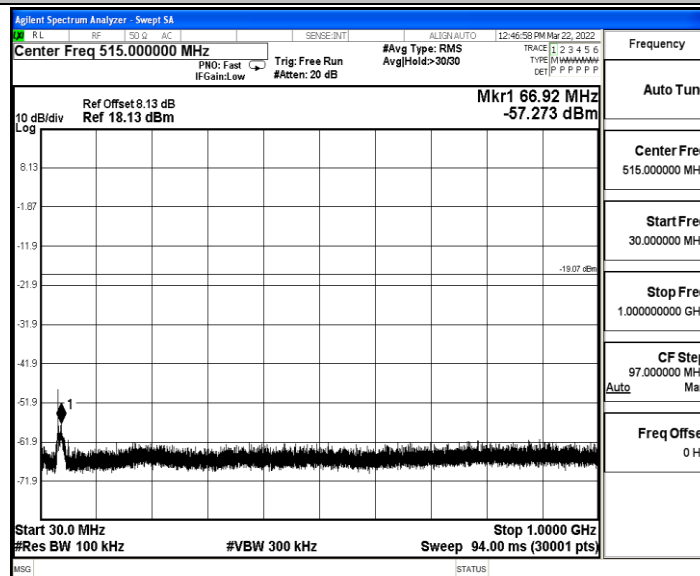
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DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



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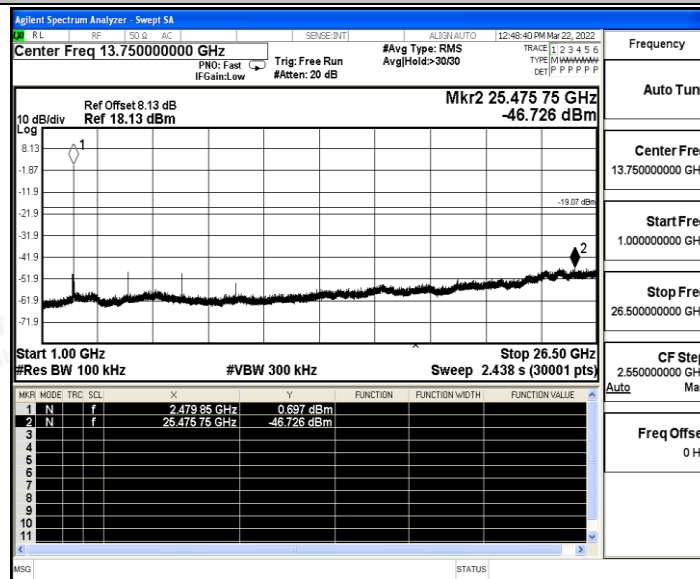
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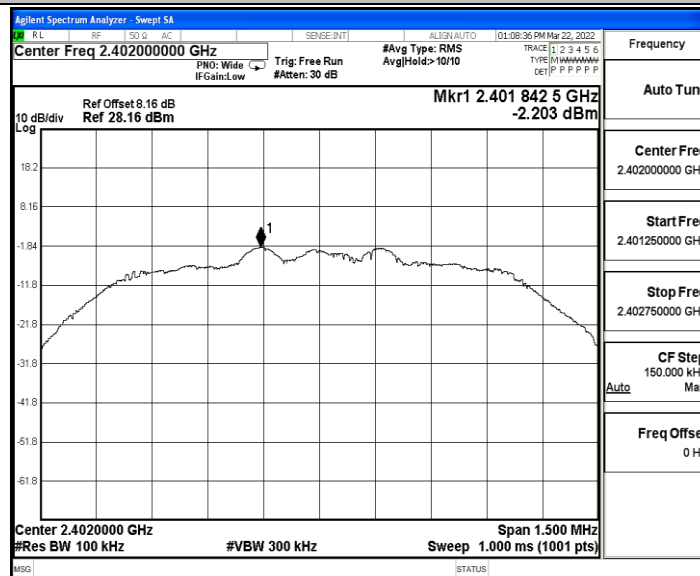
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



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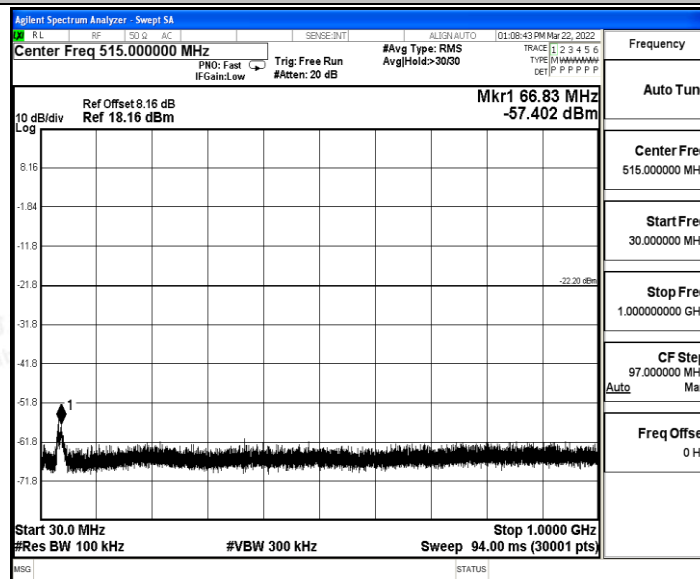
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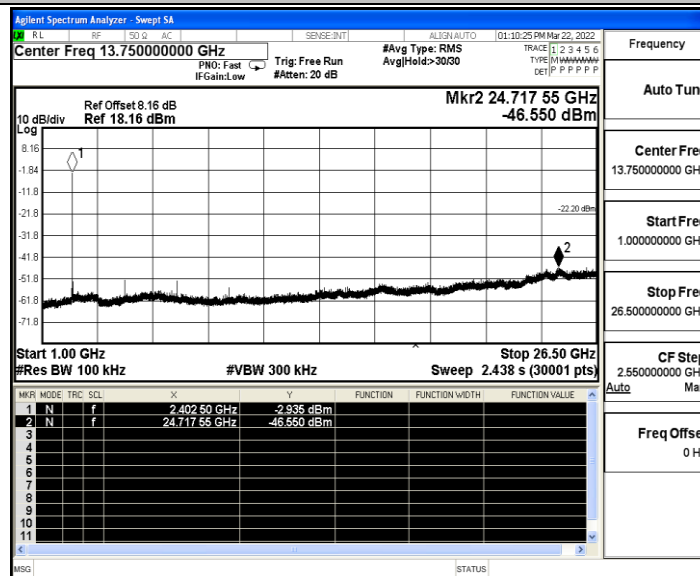
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2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



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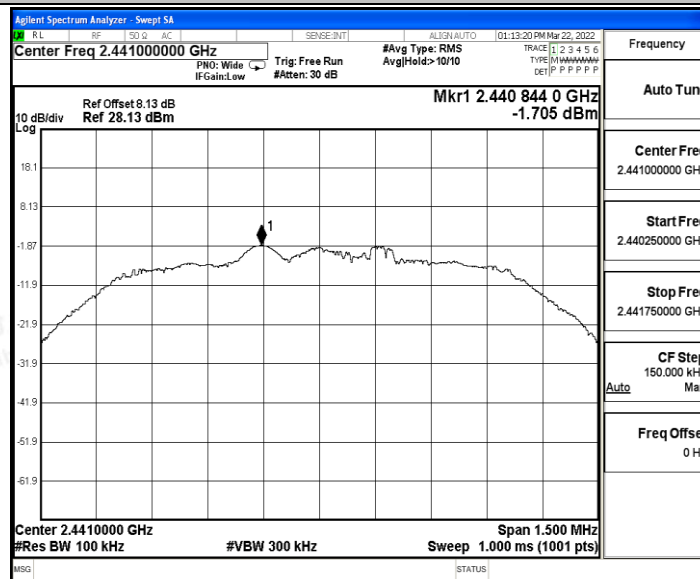
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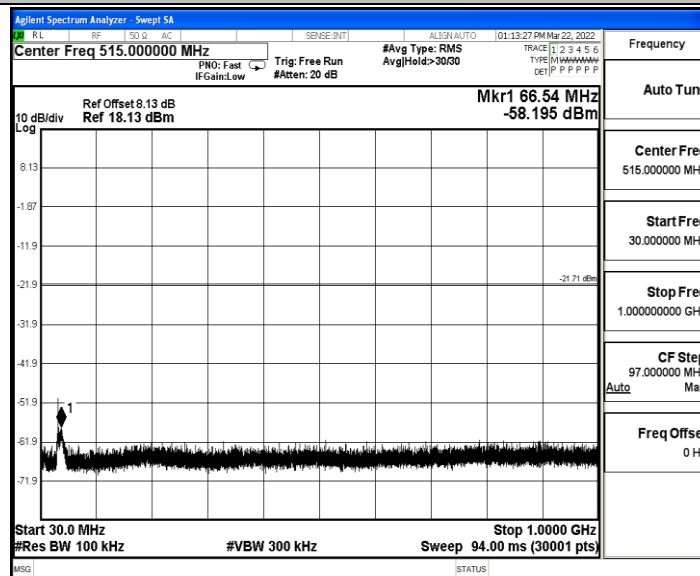
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2DH5_Ant1_2441_0-Reference



2DH5_Ant1_2441_30-1000



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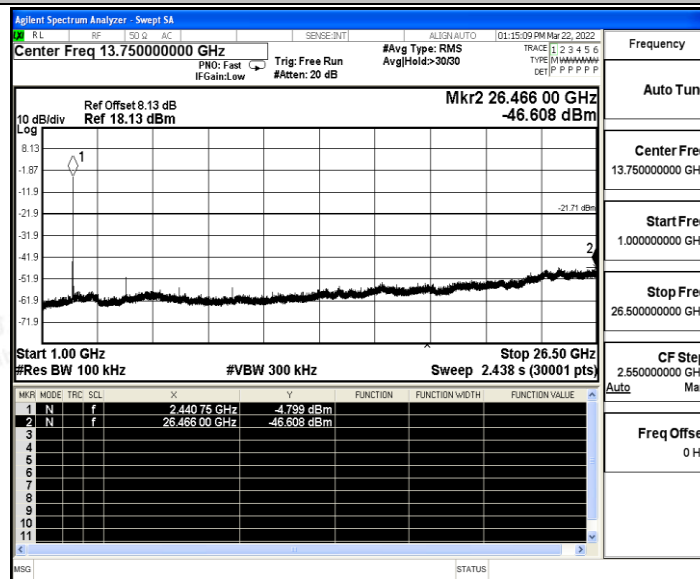
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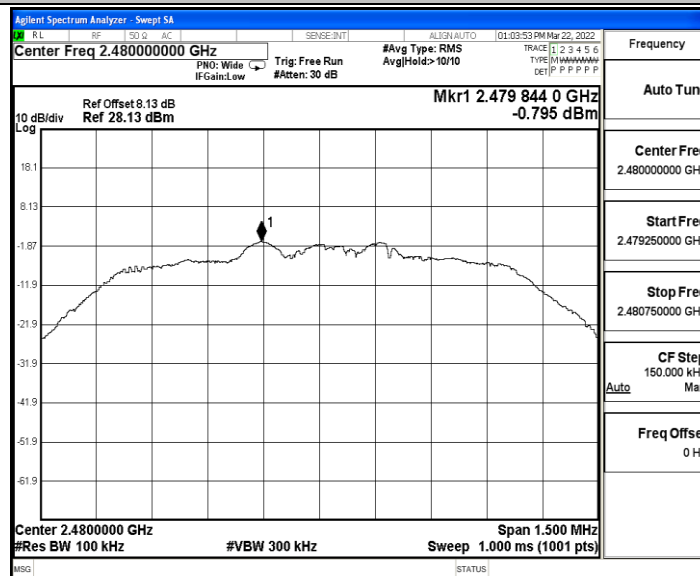
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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



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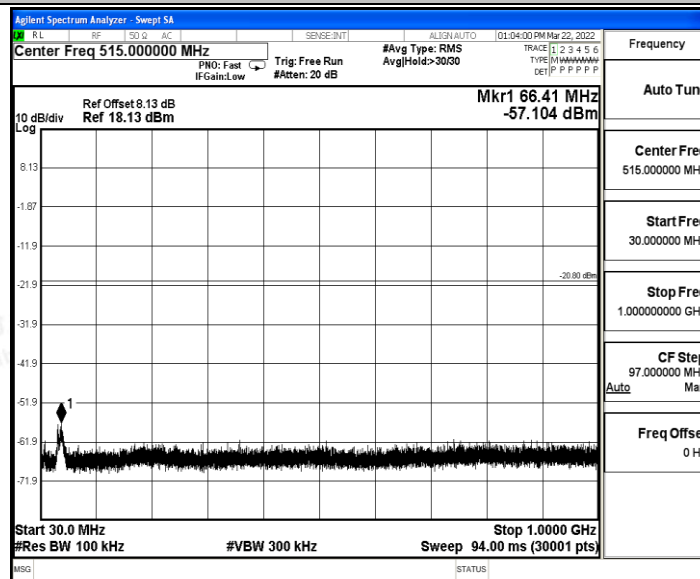
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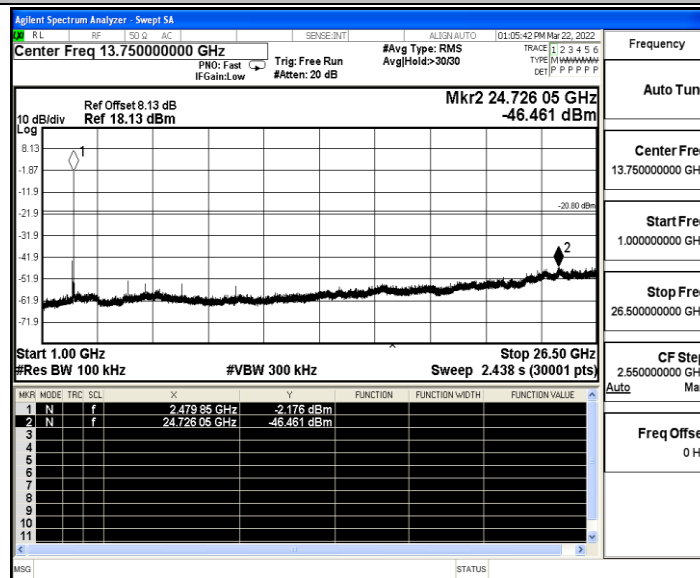
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2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



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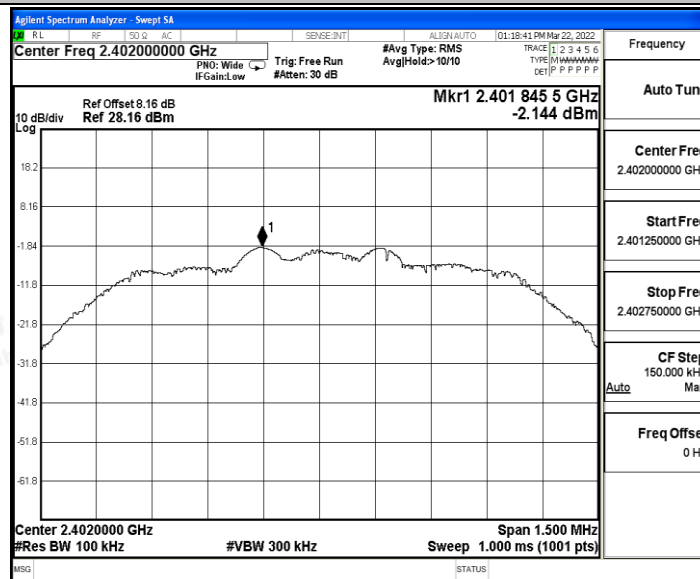
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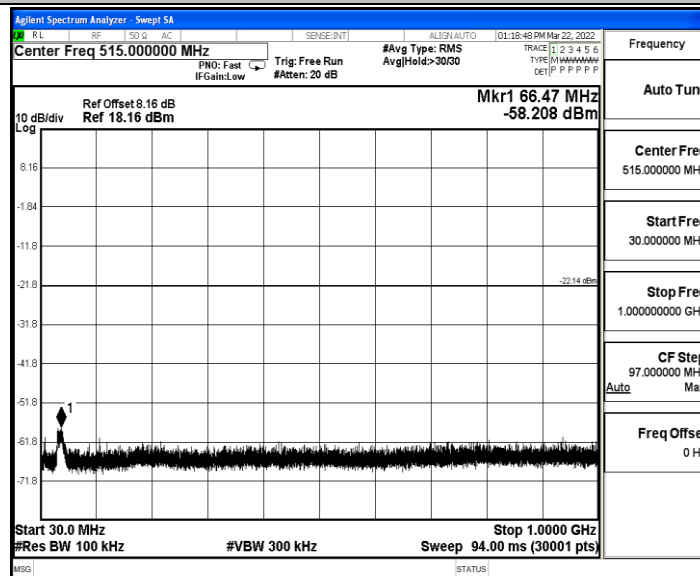
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3DH5_Ant1_2402_0-Reference



3DH5_Ant1_2402_30-1000



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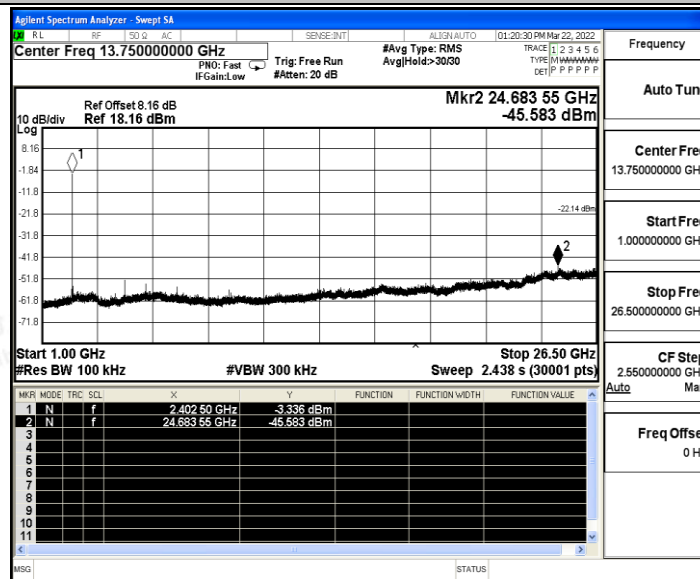
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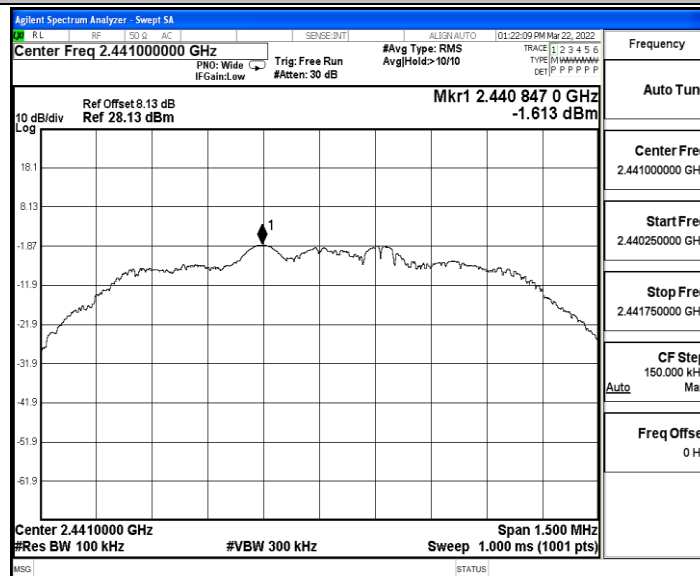
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



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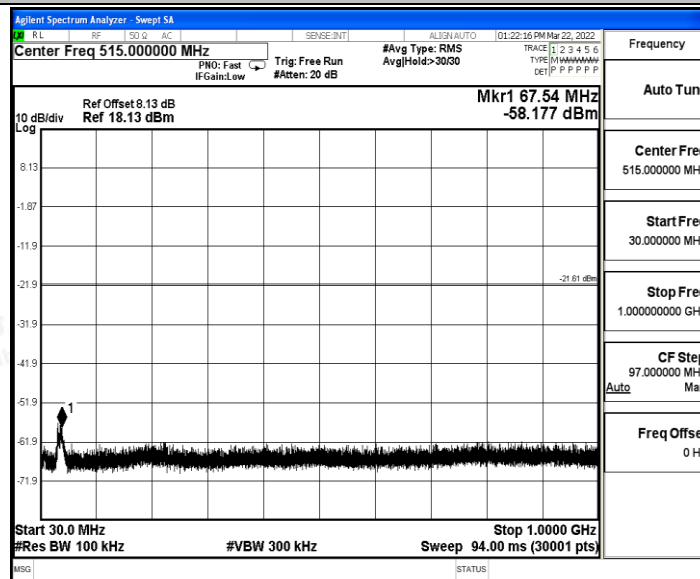
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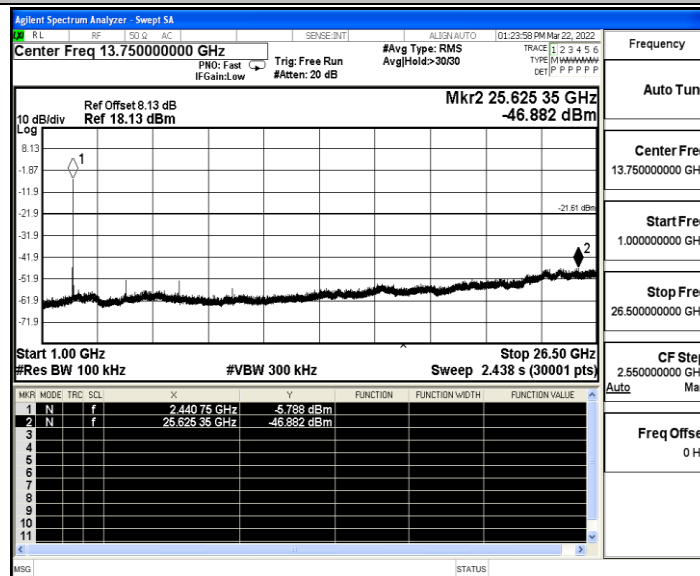
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



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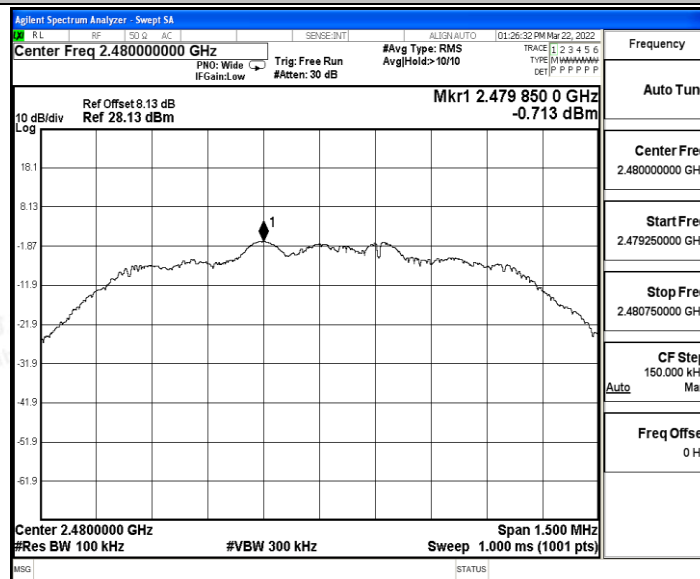
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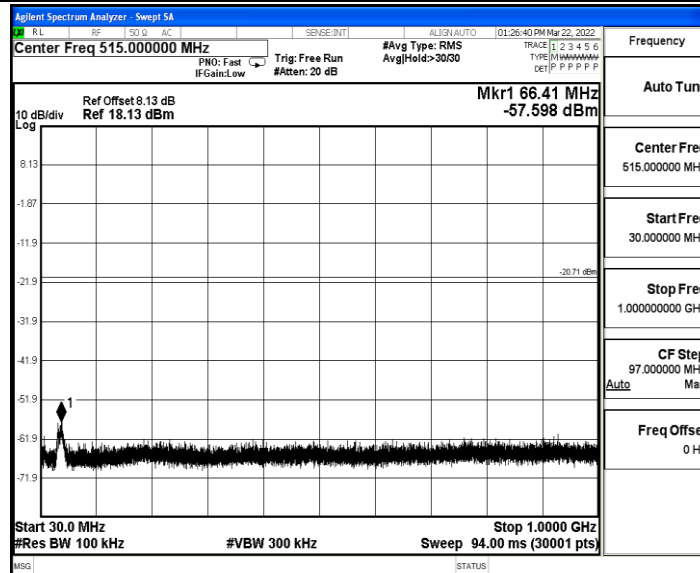
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3DH5_Ant1_2480_0-Reference



3DH5_Ant1_2480_30-1000



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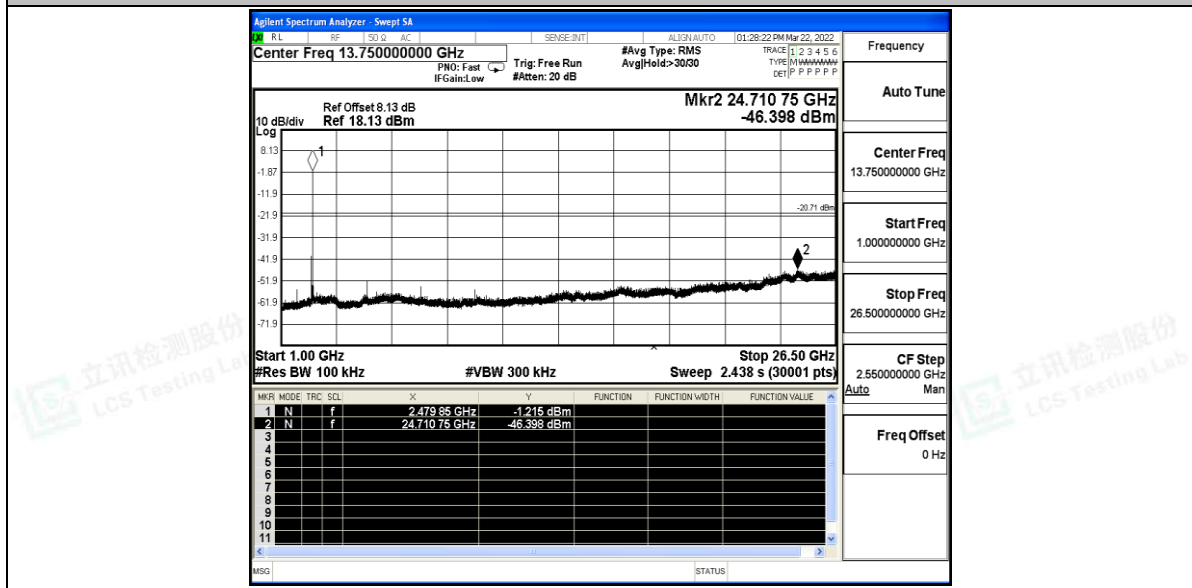
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3DH5_Ant1_2480_1000~26500



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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	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2383.580	-47.19	≤-41.20	48.01	≤54	PASS
				AV	2390.000	-47.64	≤-41.20	47.56	≤54	PASS
				Peak	2310.000	-39.37	≤-21.20	55.83	≤74	PASS
				Peak	2382.635	-36.29	≤-21.20	58.91	≤74	PASS
				Peak	2390.000	-38.22	≤-21.20	56.98	≤74	PASS
		High	2480	AV	2483.500	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2483.520	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2500.000	-47.92	≤-41.20	47.28	≤54	PASS
				Peak	2483.500	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2495.520	-35.33	≤-21.20	59.87	≤74	PASS
				Peak	2500.000	-36.01	≤-21.20	59.19	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-39.61	≤-21.20	55.59	≤74	PASS
				Peak	2384.315	-36.04	≤-21.20	59.16	≤74	PASS
				Peak	2390.000	-37.89	≤-21.20	57.31	≤74	PASS
		High	Hop_2480	Peak	2483.500	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2486.960	-36.01	≤-21.20	59.19	≤74	PASS
				Peak	2500.000	-37.88	≤-21.20	57.32	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2381.900	-47.44	≤-41.20	47.76	≤54	PASS
				AV	2390.000	-47.91	≤-41.20	47.29	≤54	PASS
				Peak	2310.000	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2388.620	-36.16	≤-21.20	59.04	≤74	PASS
				Peak	2390.000	-38.8	≤-21.20	56.40	≤74	PASS
		High	2480	AV	2483.500	-47.51	≤-41.20	47.69	≤54	PASS
				AV	2499.760	-46.55	≤-41.20	48.65	≤54	PASS
				AV	2500.000	-46.58	≤-41.20	48.62	≤54	PASS
				Peak	2483.500	-38.2	≤-21.20	57.00	≤74	PASS
				Peak	2495.680	-35.62	≤-21.20	59.58	≤74	PASS
				Peak	2500.000	-37.49	≤-21.20	57.71	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-39.59	≤-21.20	55.61	≤74	PASS
				Peak	2382.635	-37.62	≤-21.20	57.58	≤74	PASS
				Peak	2390.000	-39.44	≤-21.20	55.76	≤74	PASS
		High	Hop_2480	Peak	2483.500	-38.42	≤-21.20	56.78	≤74	PASS



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3DH5	Ant1			Peak	2498.720	-36.02	≤ -21.20	59.18	≤ 74	PASS
				Peak	2500.000	-38.18	≤ -21.20	57.02	≤ 74	PASS
		Low	2402	AV	2310.000	-48.4	≤ -41.20	46.80	≤ 54	PASS
				AV	2382.635	-46.97	≤ -41.20	48.23	≤ 54	PASS
				AV	2390.000	-47.99	≤ -41.20	47.21	≤ 54	PASS
				Peak	2310.000	-39.86	≤ -21.20	55.34	≤ 74	PASS
				Peak	2382.005	-36.84	≤ -21.20	58.36	≤ 74	PASS
				Peak	2390.000	-38.95	≤ -21.20	56.25	≤ 74	PASS
		High	2480	AV	2483.500	-47.47	≤ -41.20	47.73	≤ 54	PASS
				AV	2499.360	-46.14	≤ -41.20	49.06	≤ 54	PASS
				AV	2500.000	-46.41	≤ -41.20	48.79	≤ 54	PASS
				Peak	2483.500	-38.54	≤ -21.20	56.66	≤ 74	PASS
				Peak	2497.920	-34.59	≤ -21.20	60.61	≤ 74	PASS
				Peak	2500.000	-37.55	≤ -21.20	57.65	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-39.27	≤ -21.20	55.93	≤ 74	PASS
				Peak	2384.420	-37.62	≤ -21.20	57.58	≤ 74	PASS
				Peak	2390.000	-39.42	≤ -21.20	55.78	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-38.34	≤ -21.20	56.86	≤ 74	PASS
				Peak	2496.560	-36.28	≤ -21.20	58.92	≤ 74	PASS
				Peak	2500.000	-37.69	≤ -21.20	57.51	≤ 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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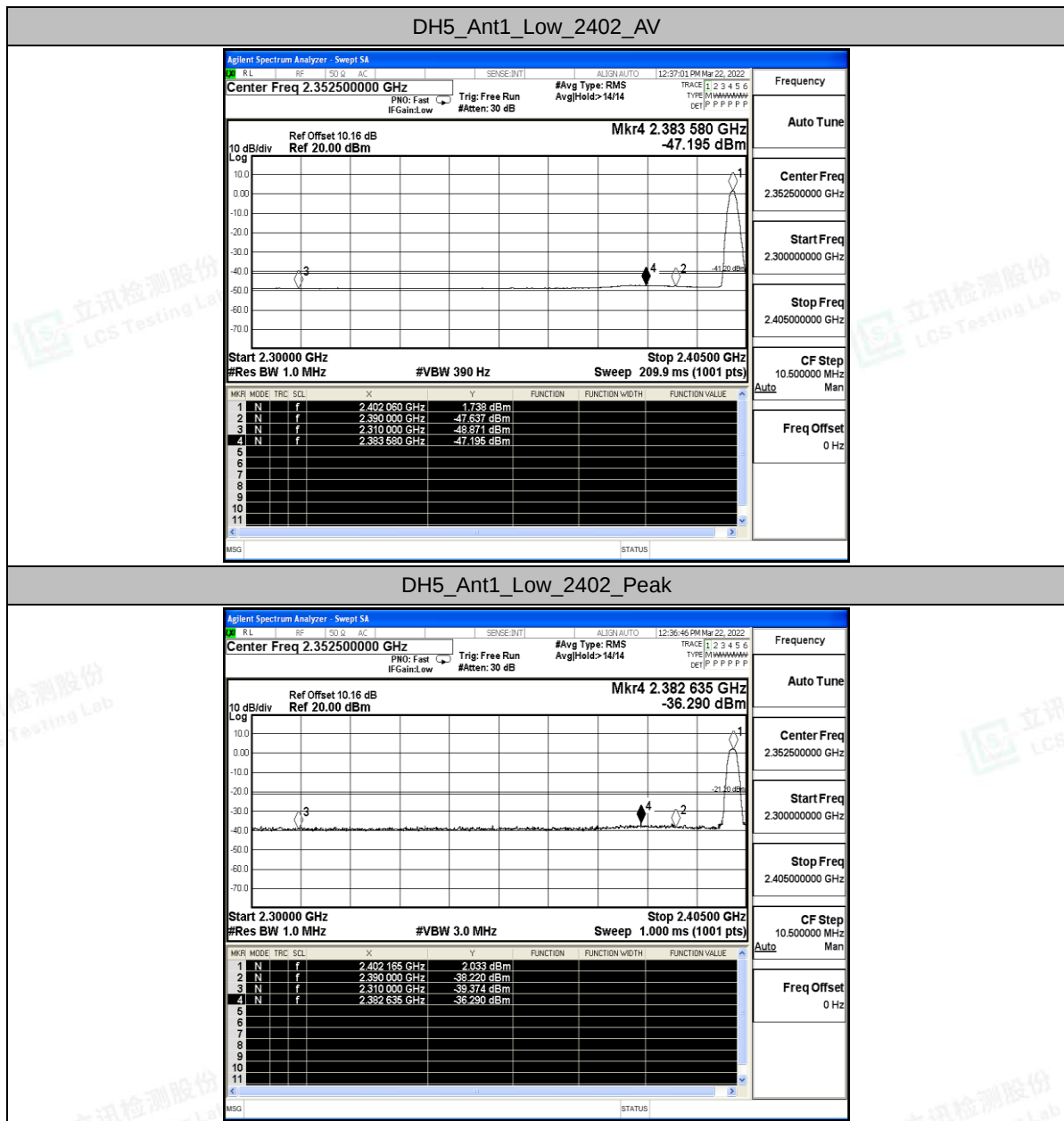
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Test Graphs



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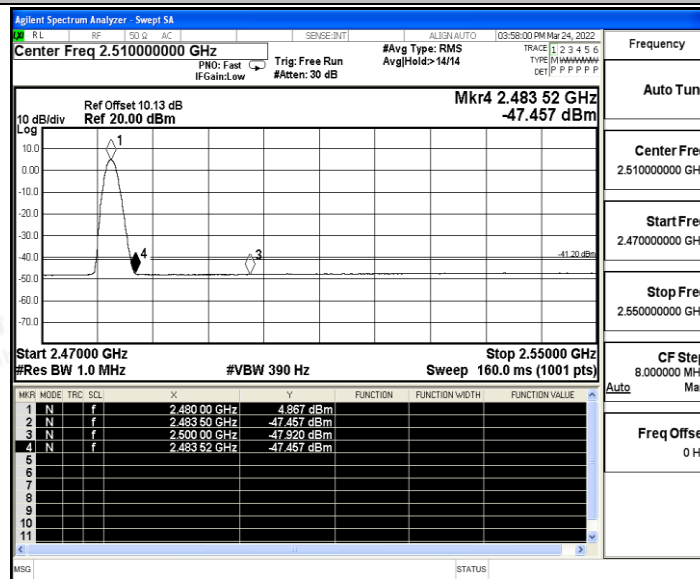
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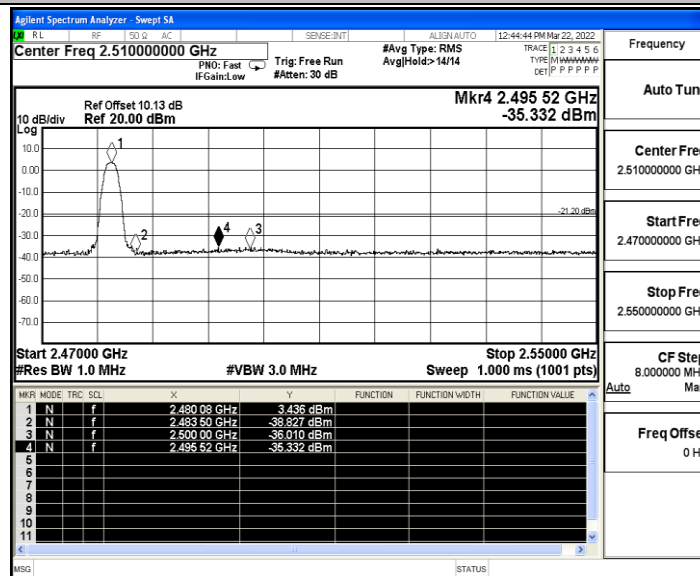
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DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



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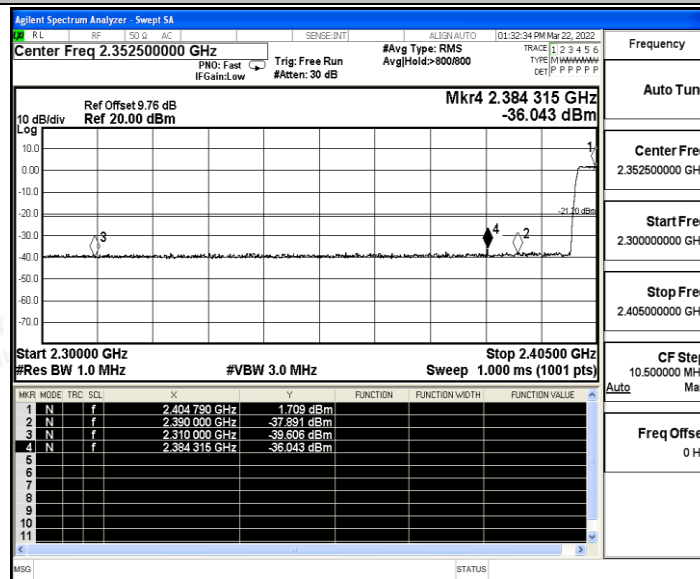
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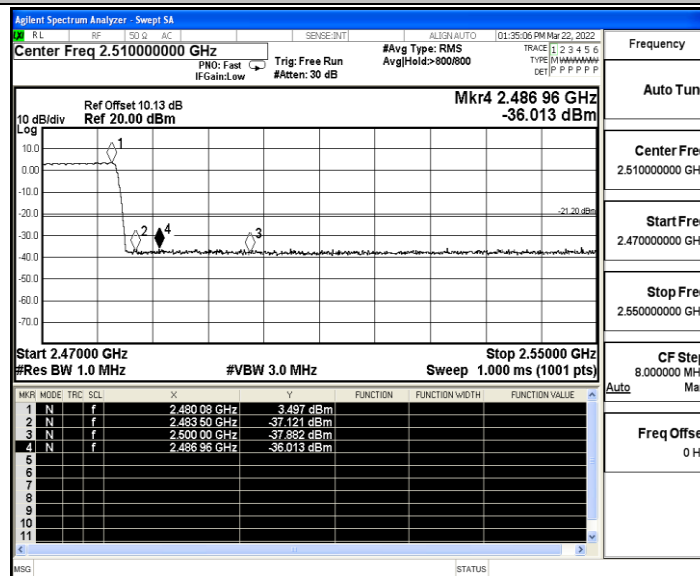
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DH5_Ant1_Low_Hop_2402_Peak



DH5_Ant1_High_Hop_2480_Peak



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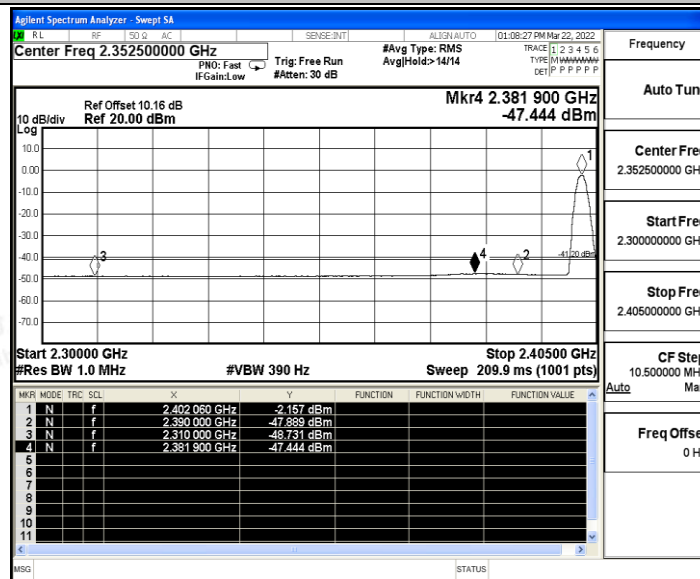
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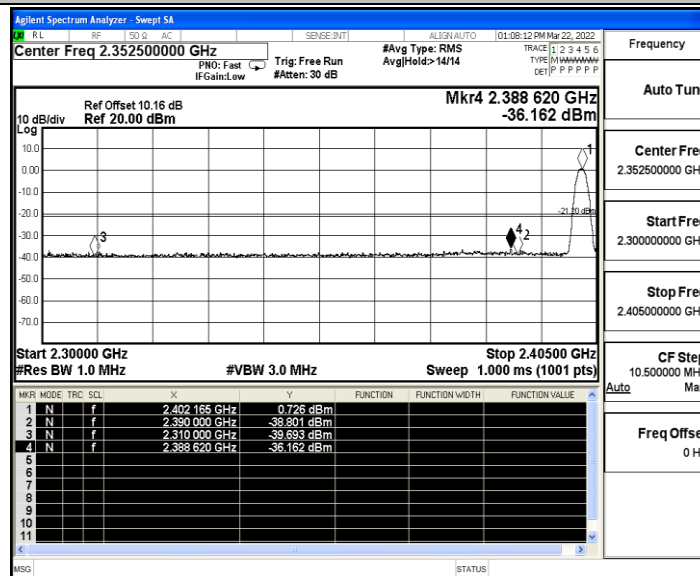
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2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



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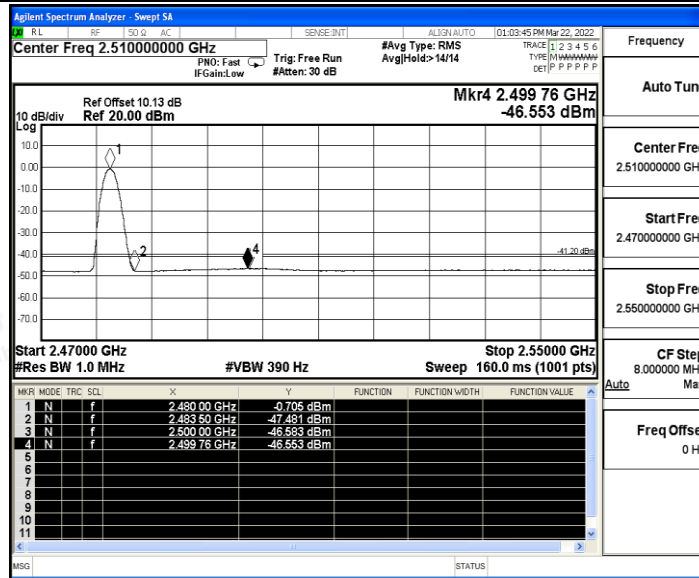
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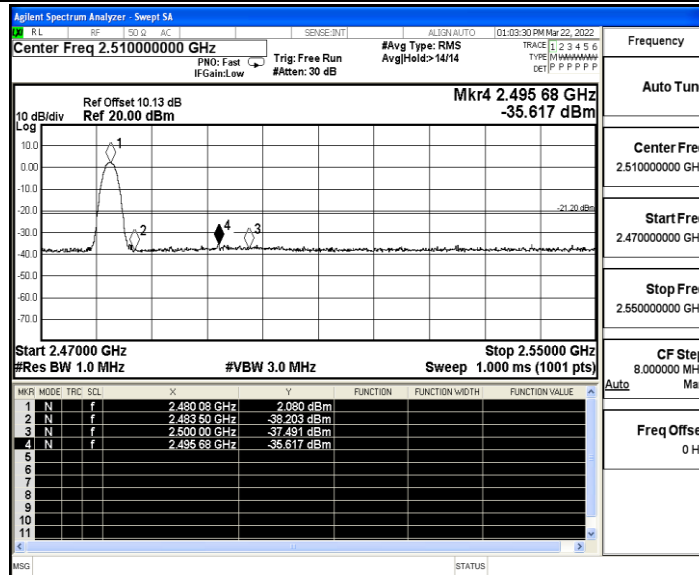
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2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



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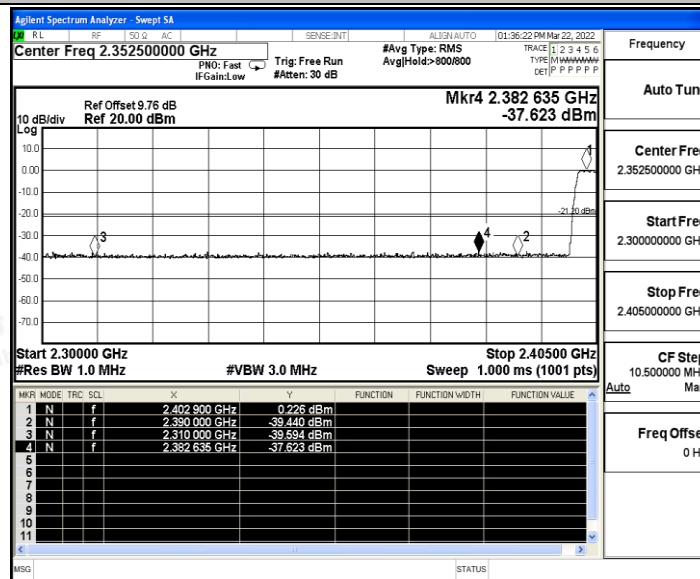
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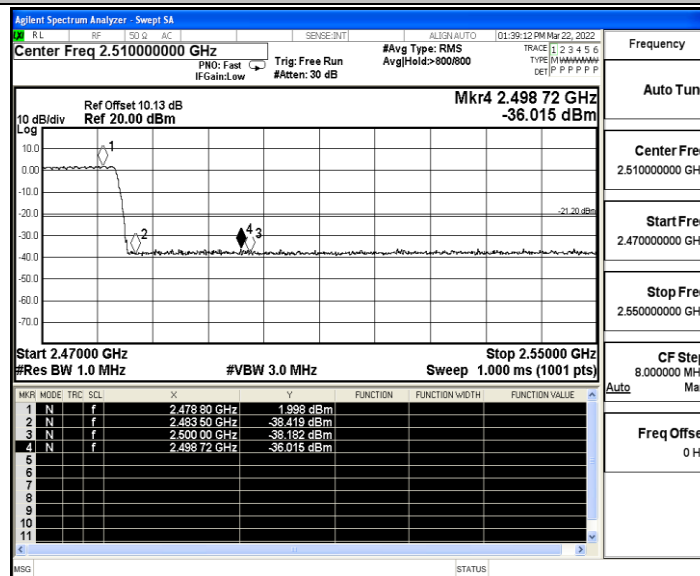
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2DH5_Ant1_Low_Hop_2402_Peak



2DH5_Ant1_High_Hop_2480_Peak



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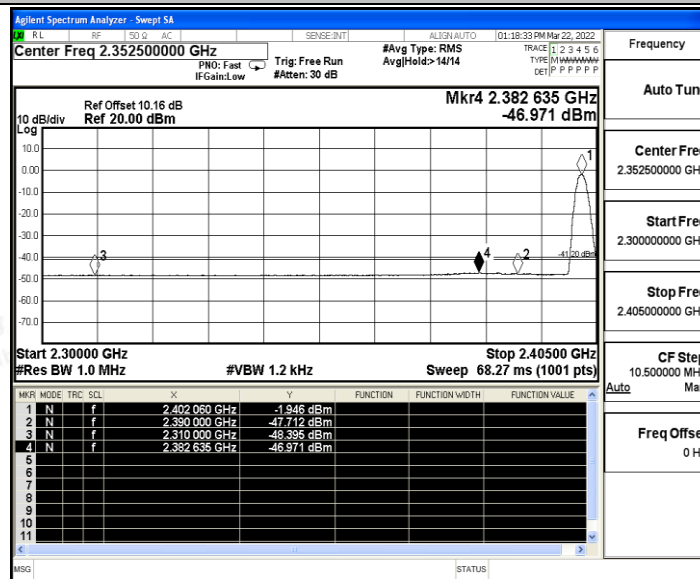
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

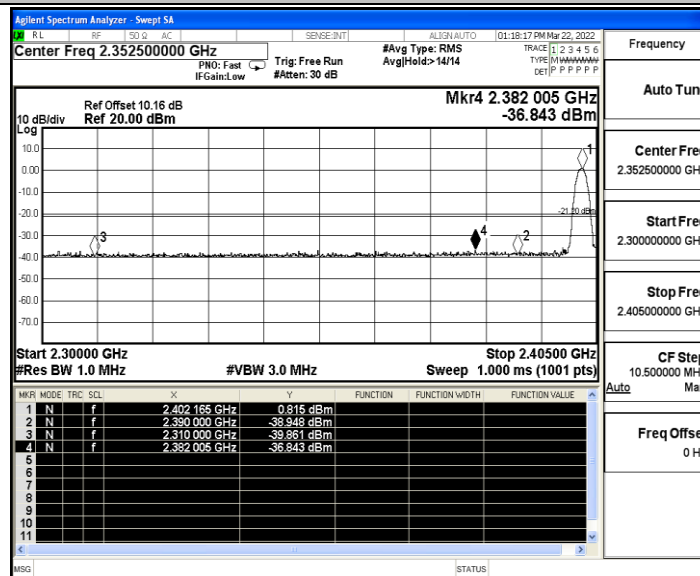
Scan code to check authenticity



3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



Shenzhen LCS Compliance Testing Laboratory Ltd.

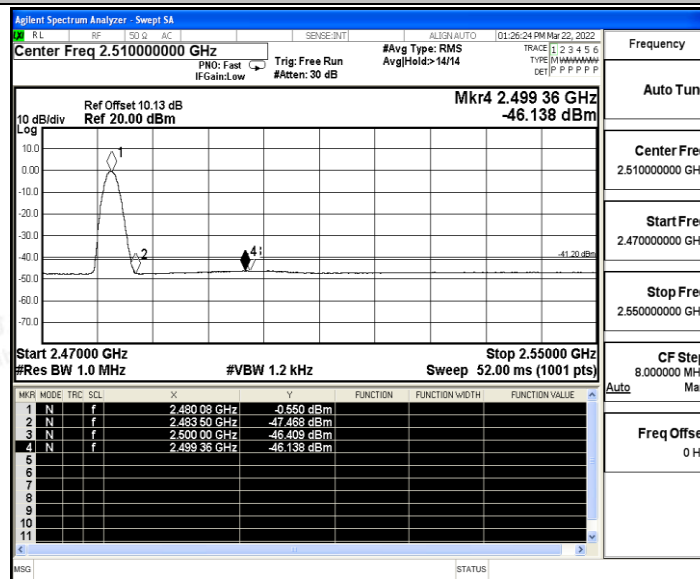
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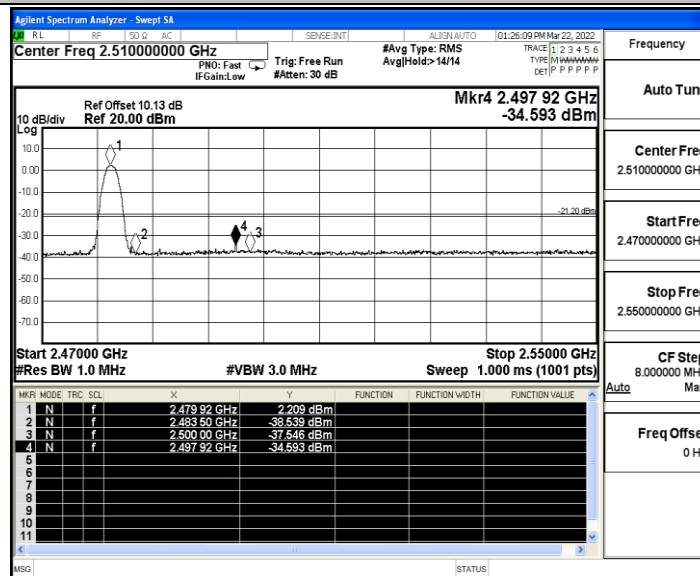
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3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



Shenzhen LCS Compliance Testing Laboratory Ltd.

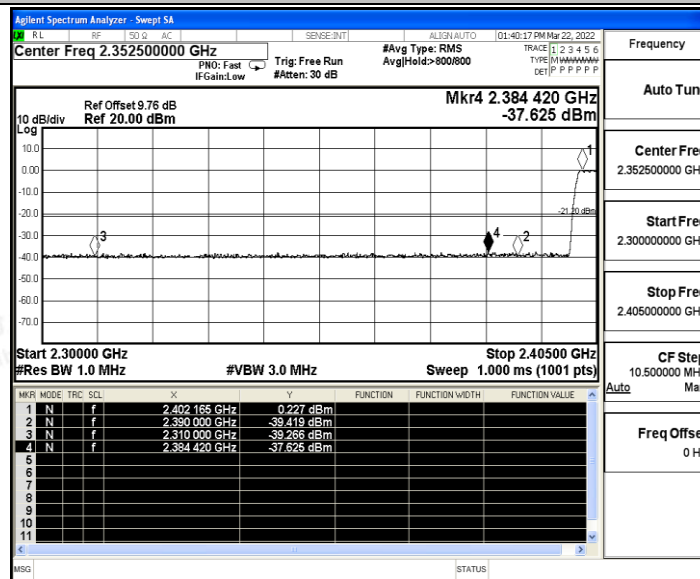
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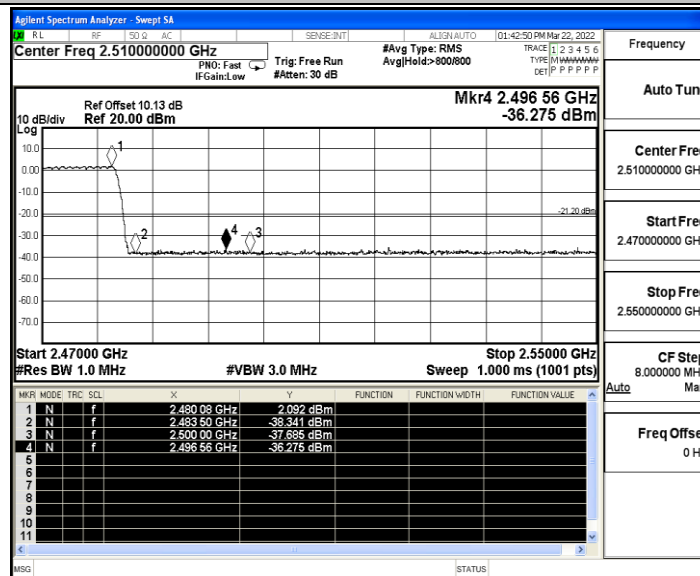
Scan code to check authenticity



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak



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