



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: USB DONGLE

Test Model: BT502

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan



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A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.469	2402.504	---	---
		2441	1.044	2440.460	2441.504	---	---
		2480	0.975	2479.526	2480.501	---	---
2DH5	Ant1	2402	1.290	2401.361	2402.651	---	---
		2441	1.314	2440.343	2441.657	---	---
		2480	1.290	2479.361	2480.651	---	---
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	---
		2441	1.296	2440.349	2441.645	---	---
		2480	1.296	2479.349	2480.645	---	---



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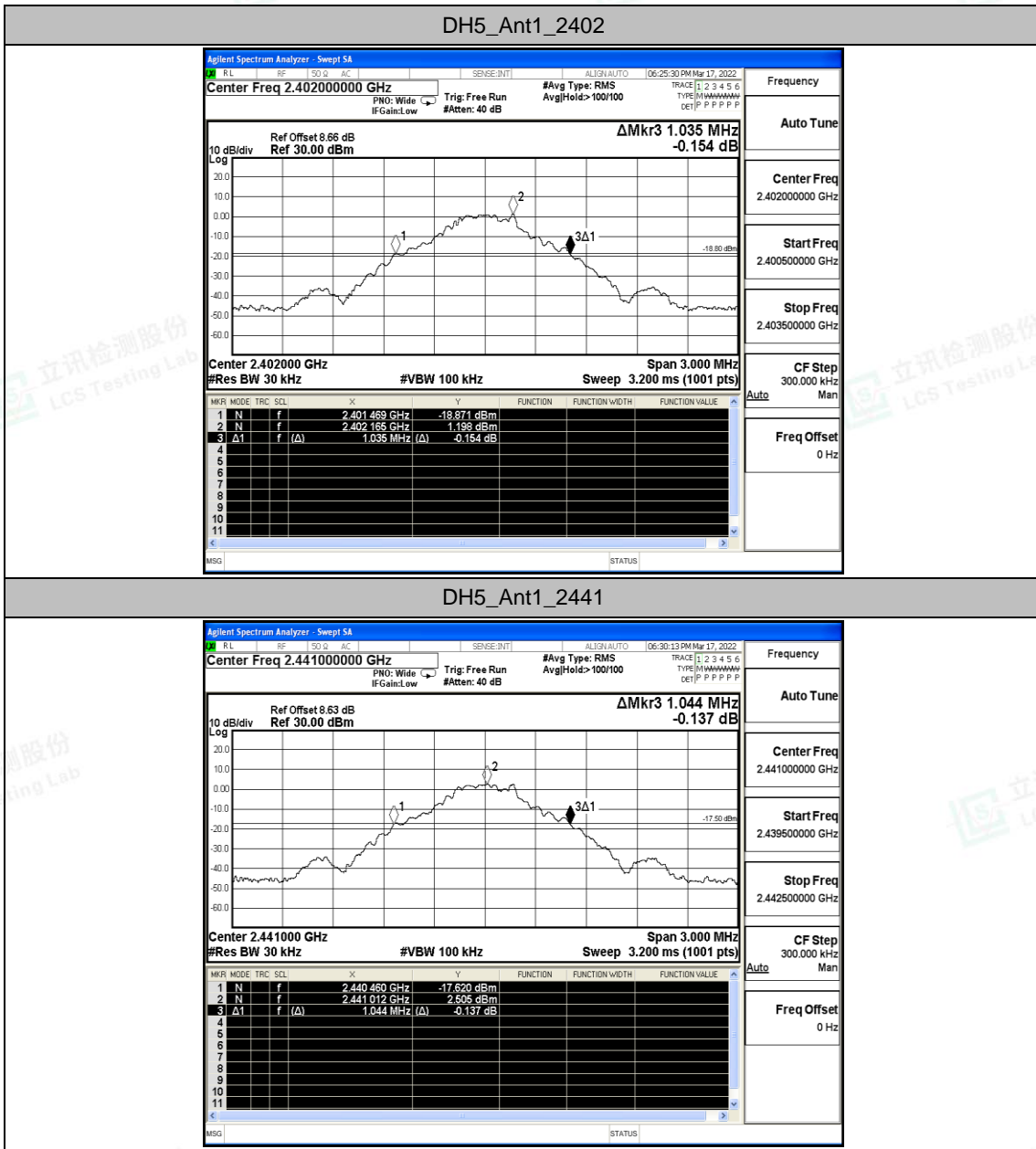
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Test Graphs



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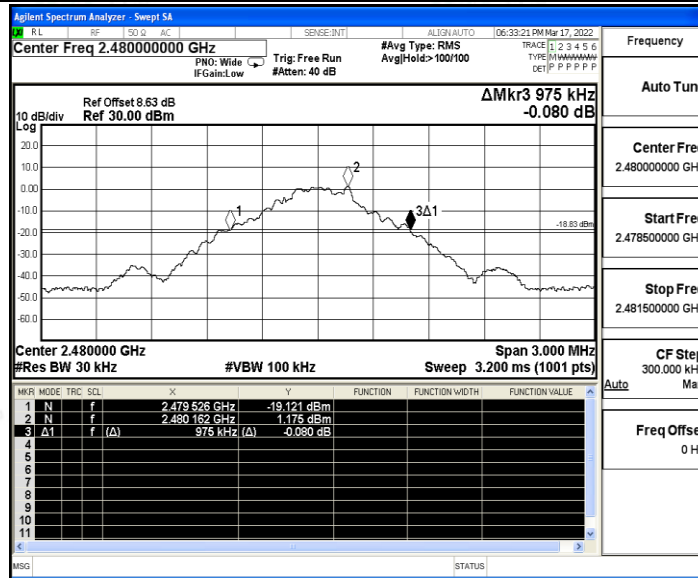
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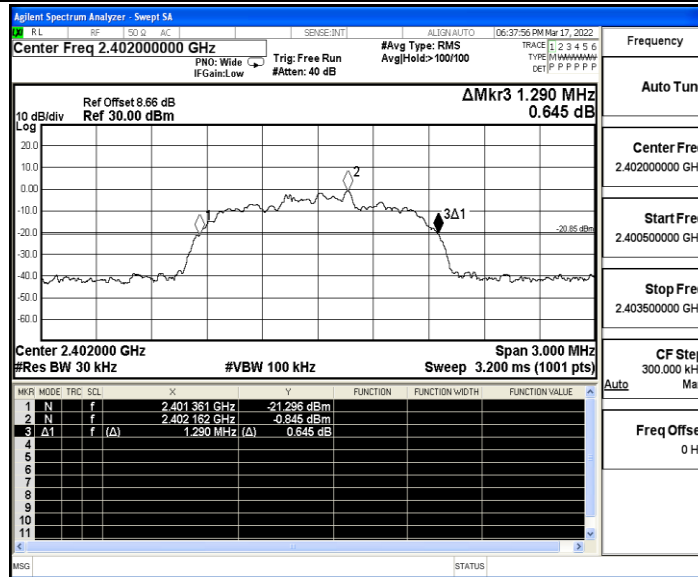
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DH5_Ant1_2480



2DH5_Ant1_2402



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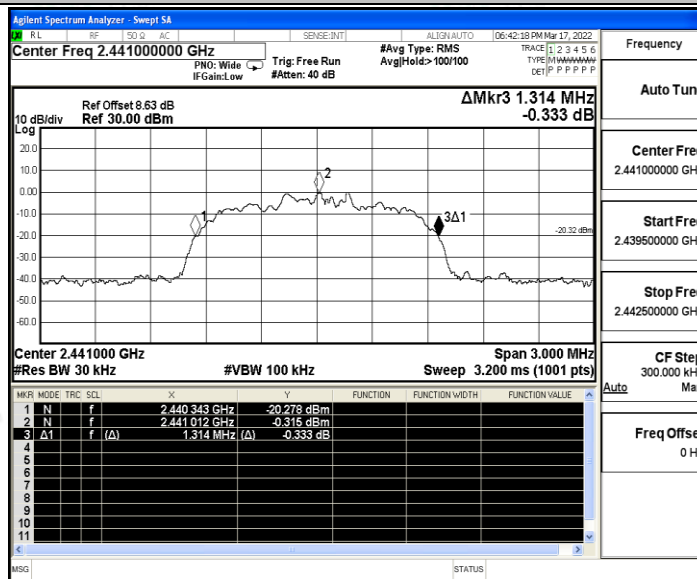
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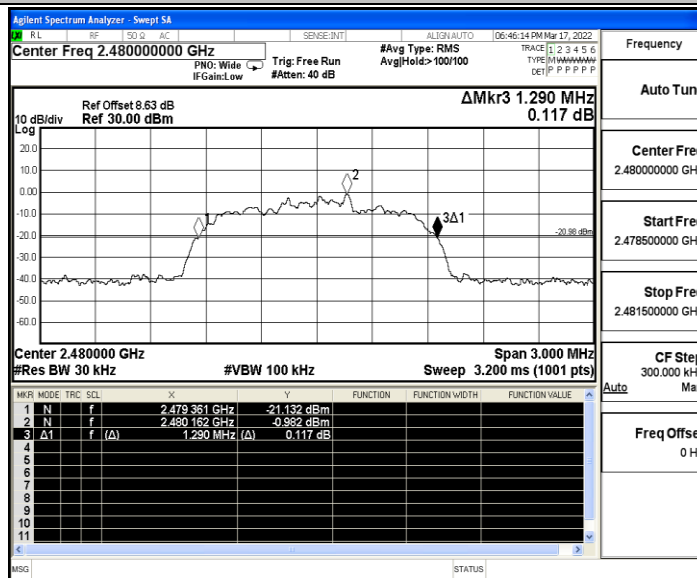
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2DH5_Ant1_2441



2DH5_Ant1_2480



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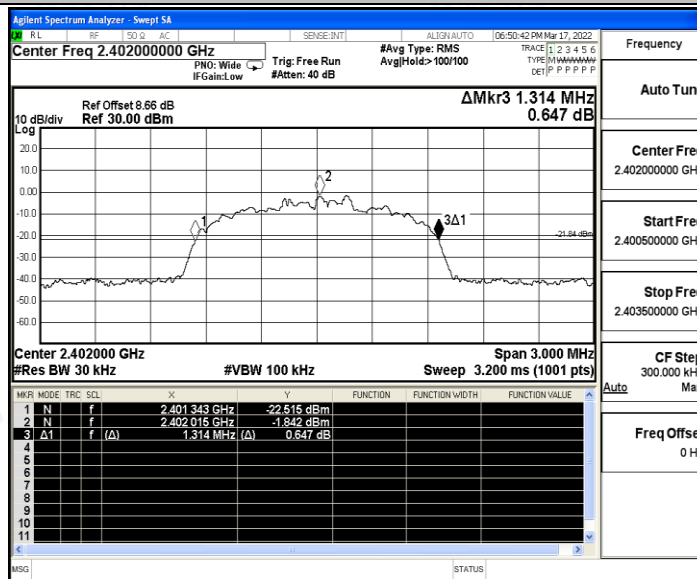
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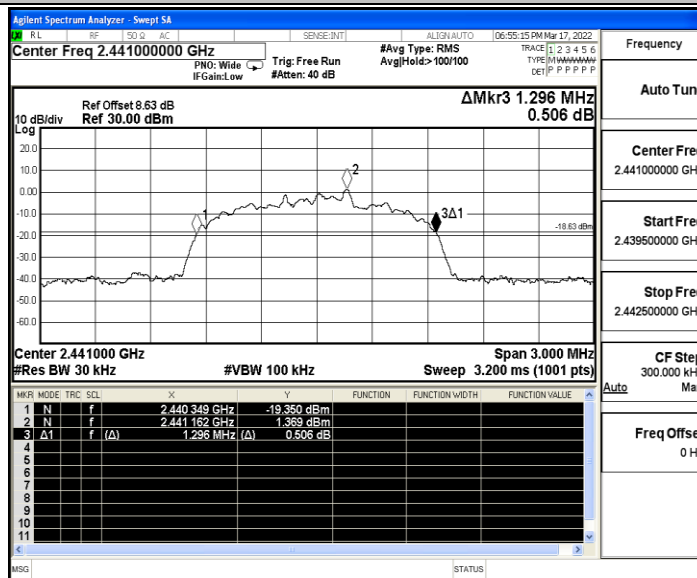
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3DH5_Ant1_2402



3DH5_Ant1_2441



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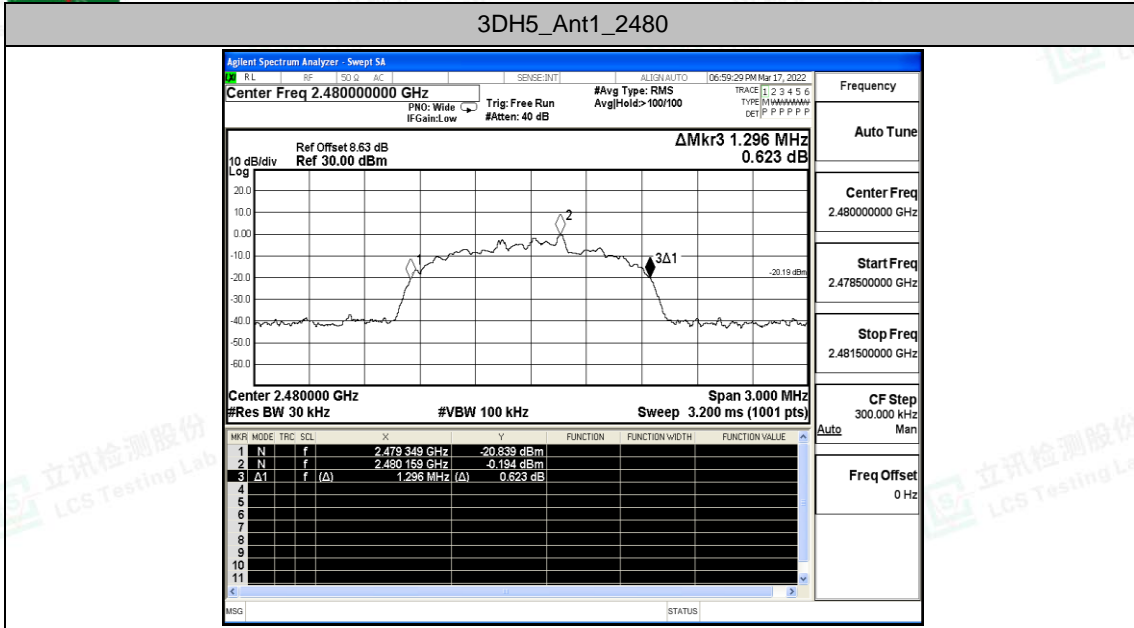
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3DH5_Ant1_2480



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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.92	≤20.97	PASS
		2441	5.37	≤20.97	PASS
		2480	3.7	≤20.97	PASS
2DH5	Ant1	2402	3.03	≤20.97	PASS
		2441	4.43	≤20.97	PASS
		2480	2.84	≤20.97	PASS
3DH5	Ant1	2402	3.11	≤20.97	PASS
		2441	4.64	≤20.97	PASS
		2480	3.11	≤20.97	PASS



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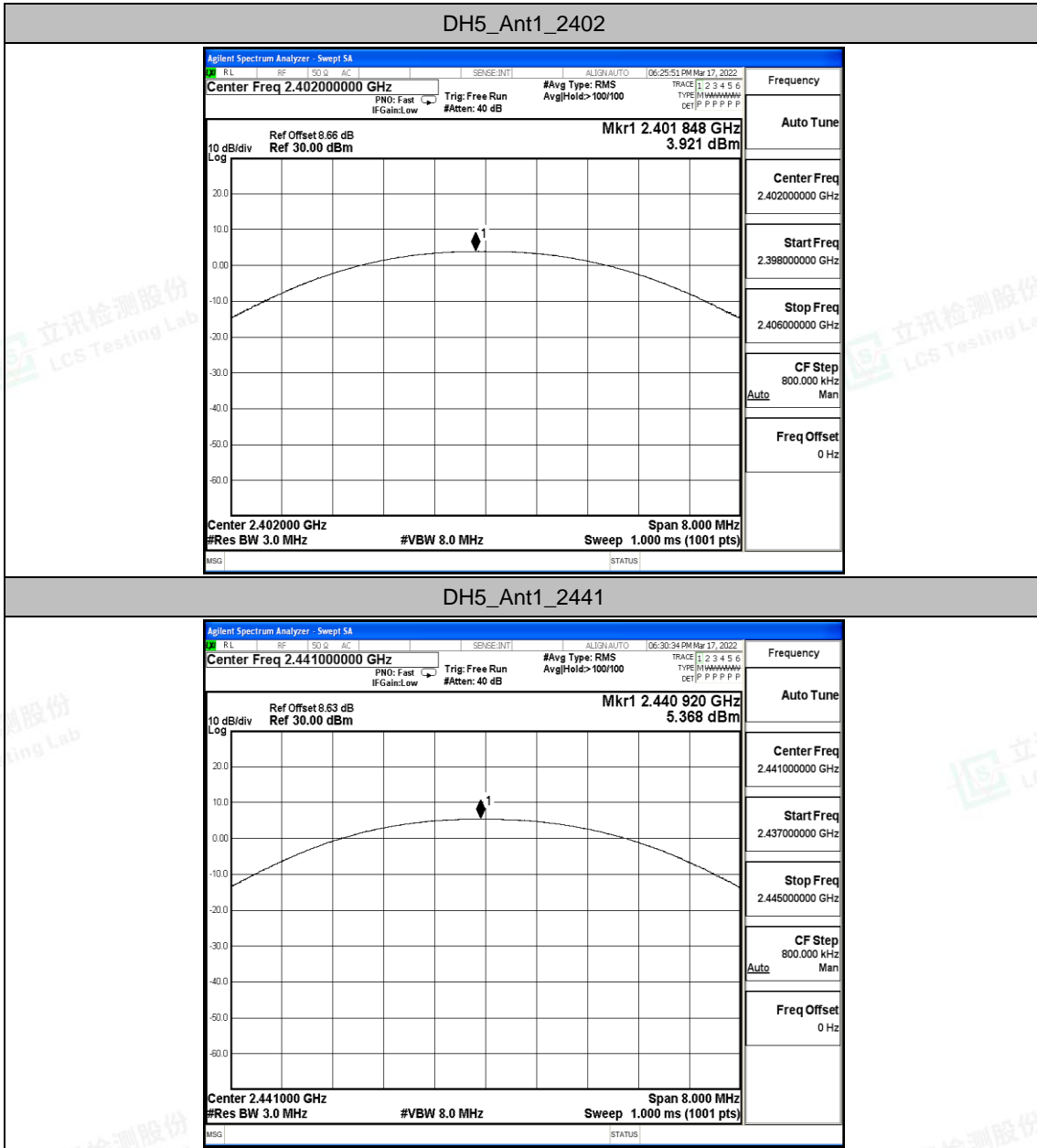
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Test Graphs



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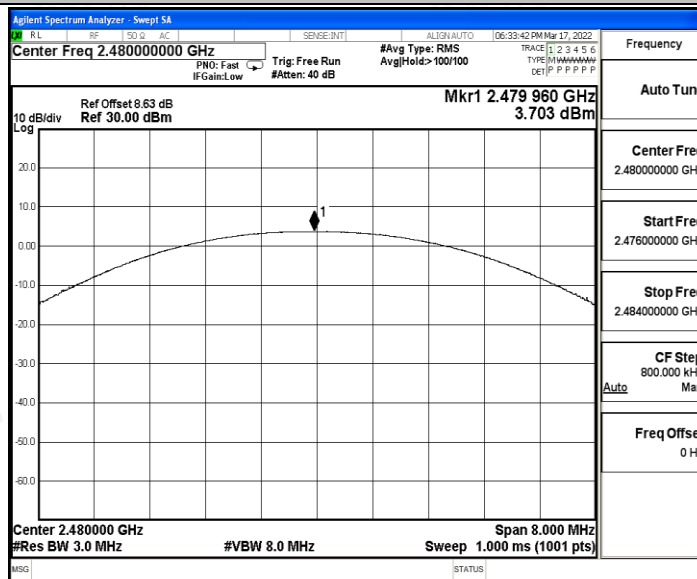
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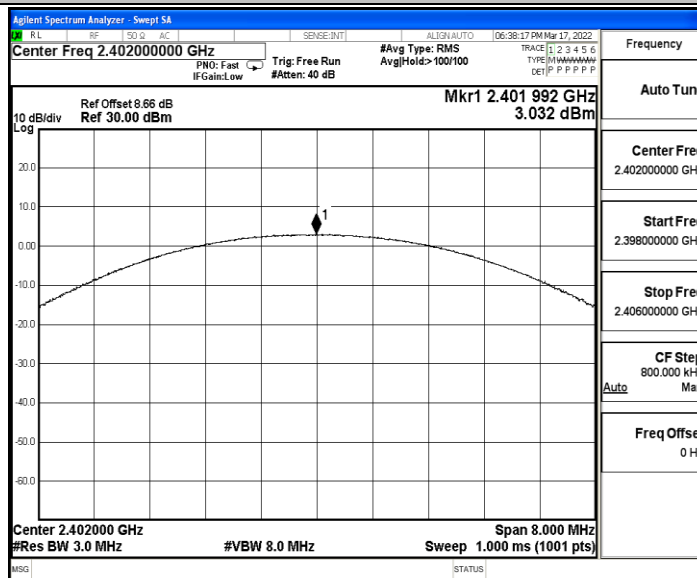
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DH5_Ant1_2480



2DH5_Ant1_2402



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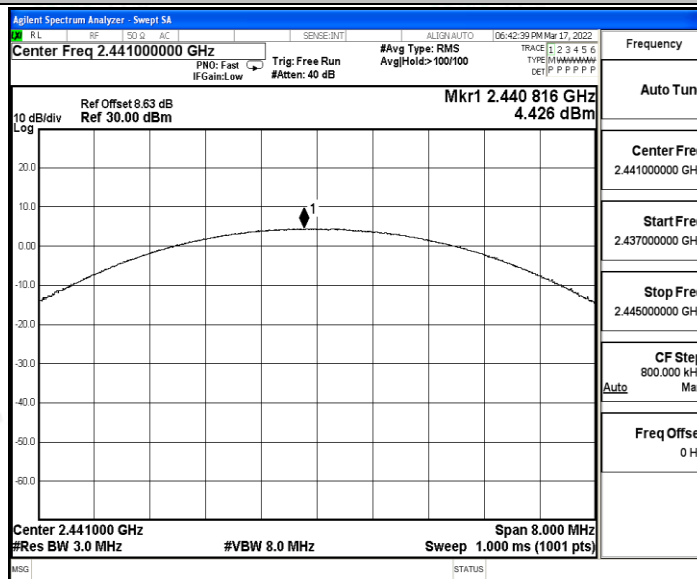
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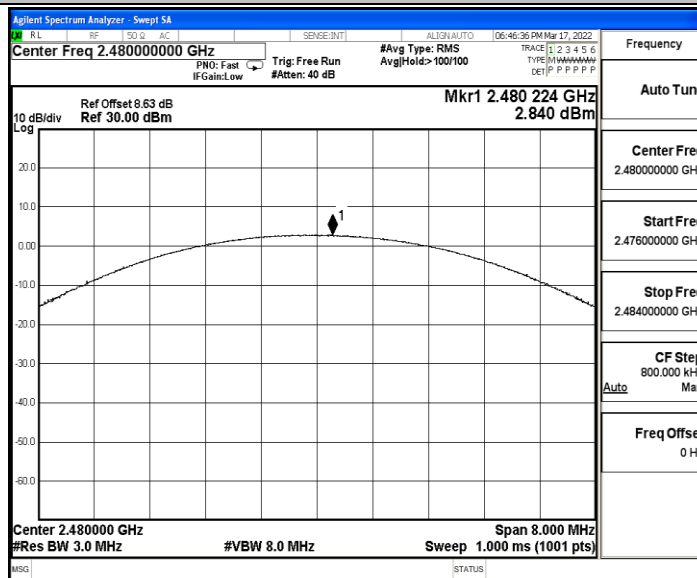
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2DH5_Ant1_2441



2DH5_Ant1_2480



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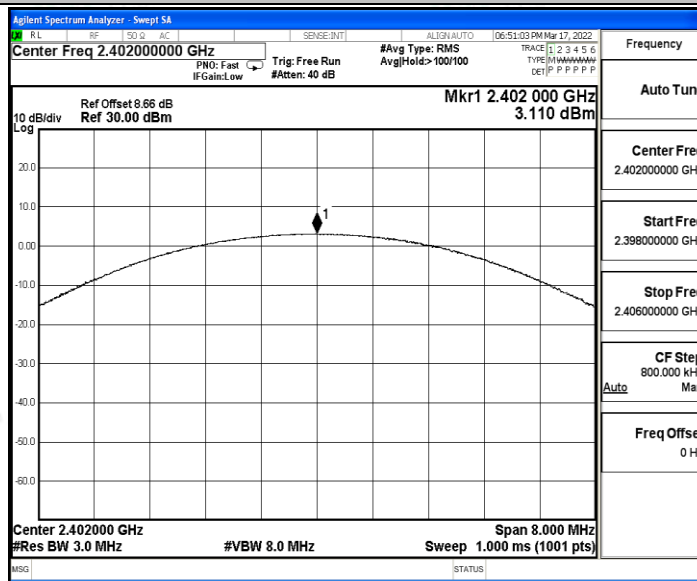
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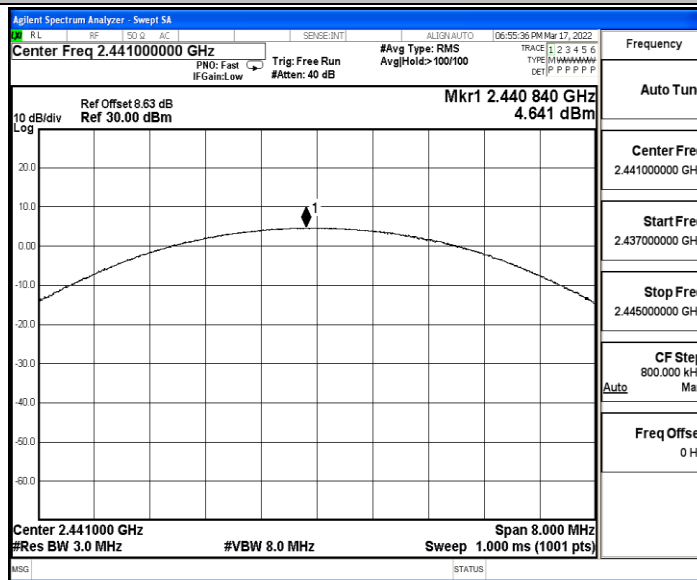
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3DH5_Ant1_2402



3DH5_Ant1_2441



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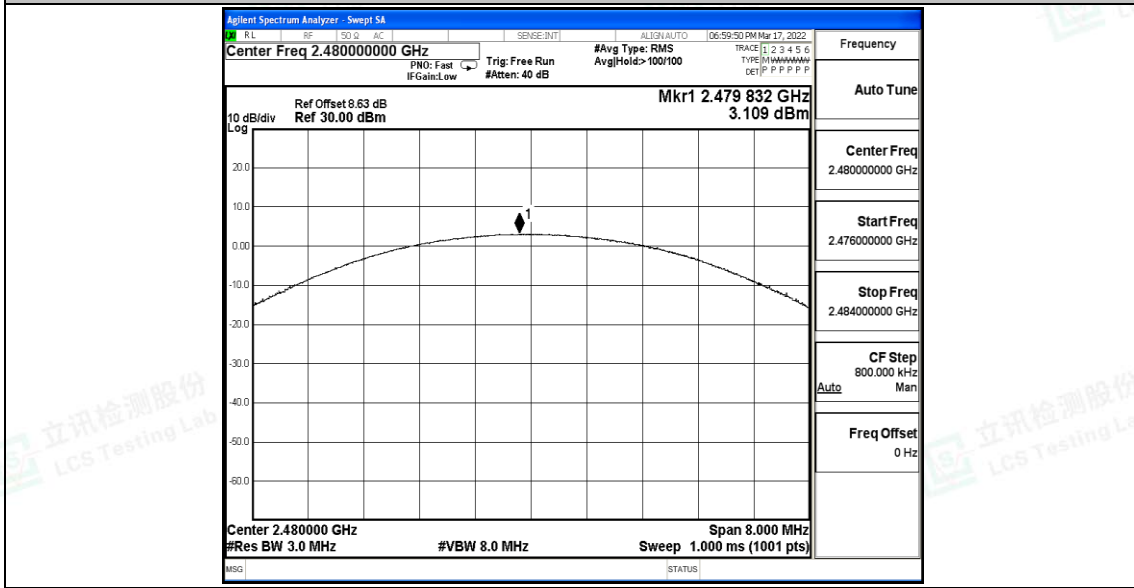
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3DH5_Ant1_2480





A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.03	≥0.696	PASS
2DH5	Ant1	Hop	1.1	≥0.876	PASS
3DH5	Ant1	Hop	0.878	≥0.876	PASS



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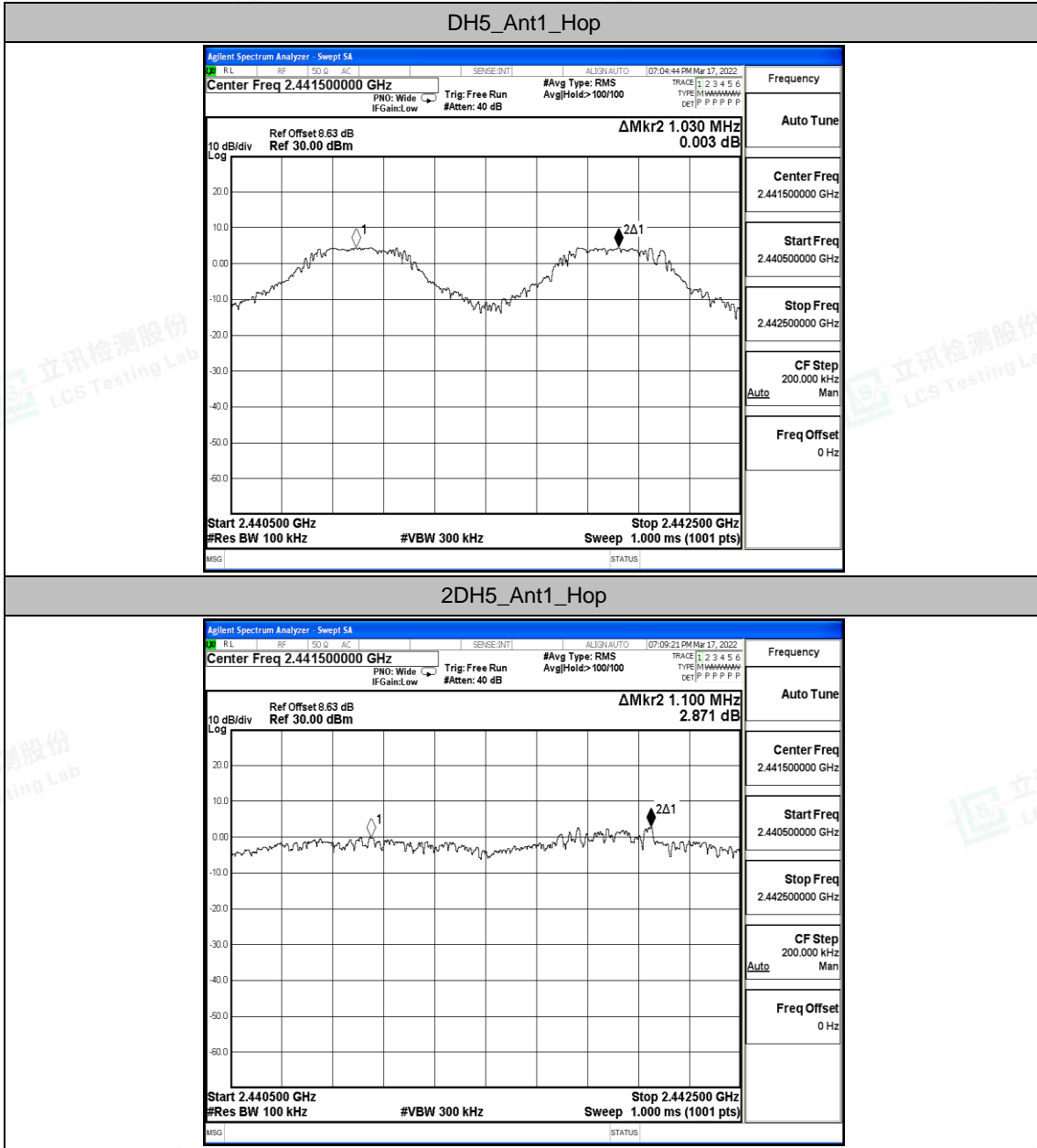
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Test Graphs



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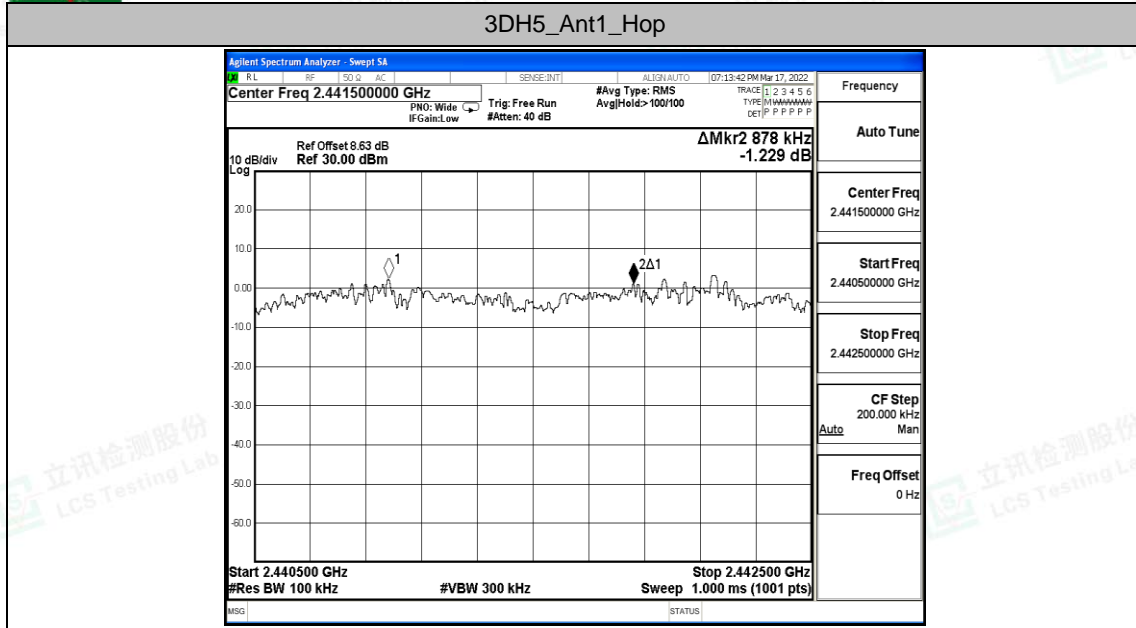
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3DH5_Ant1_Hop



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A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



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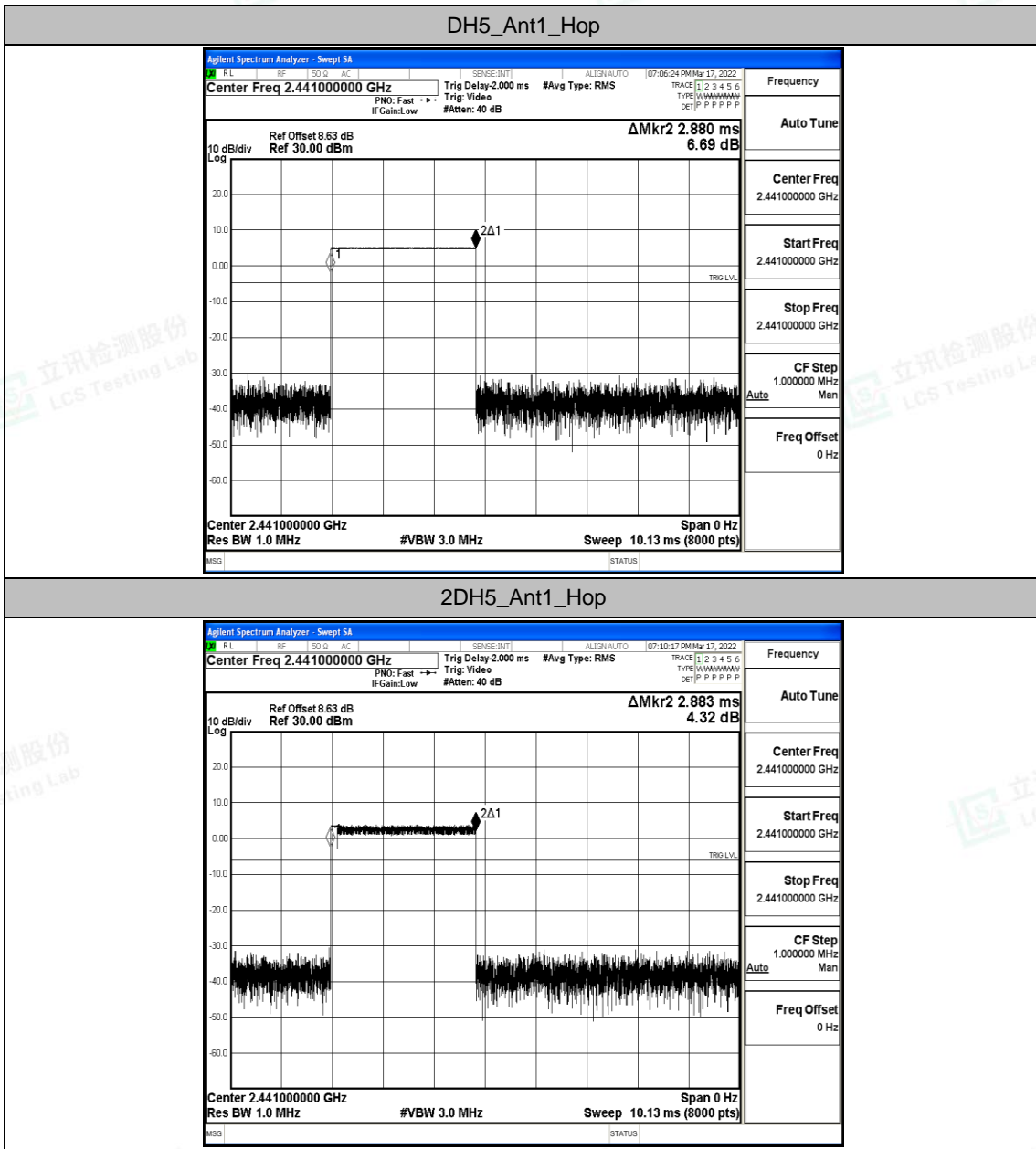
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Test Graphs



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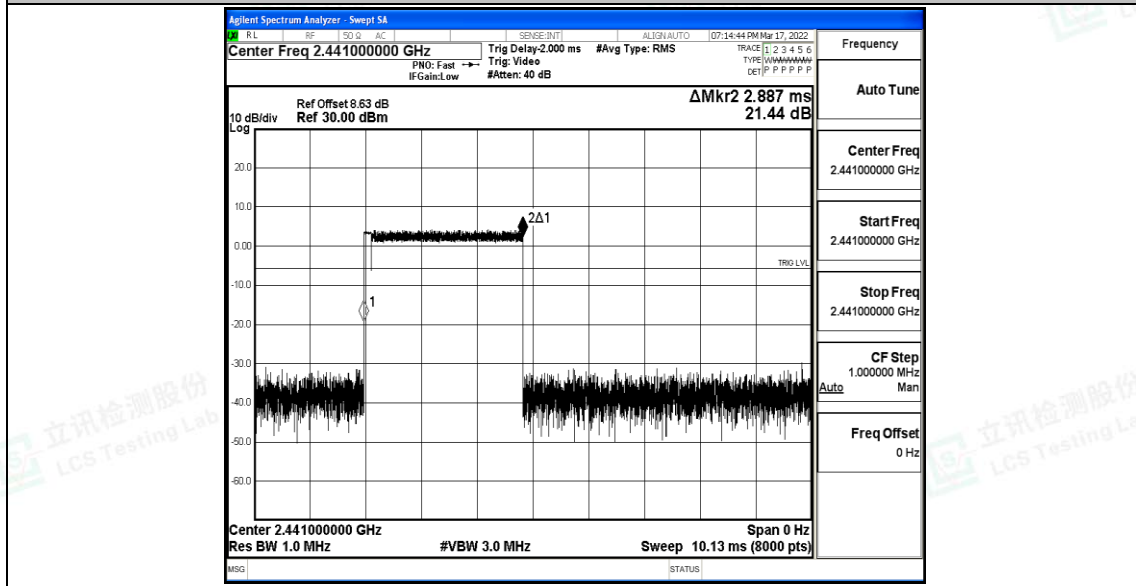
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3DH5_Ant1_Hop



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A.5 Number of hopping channels

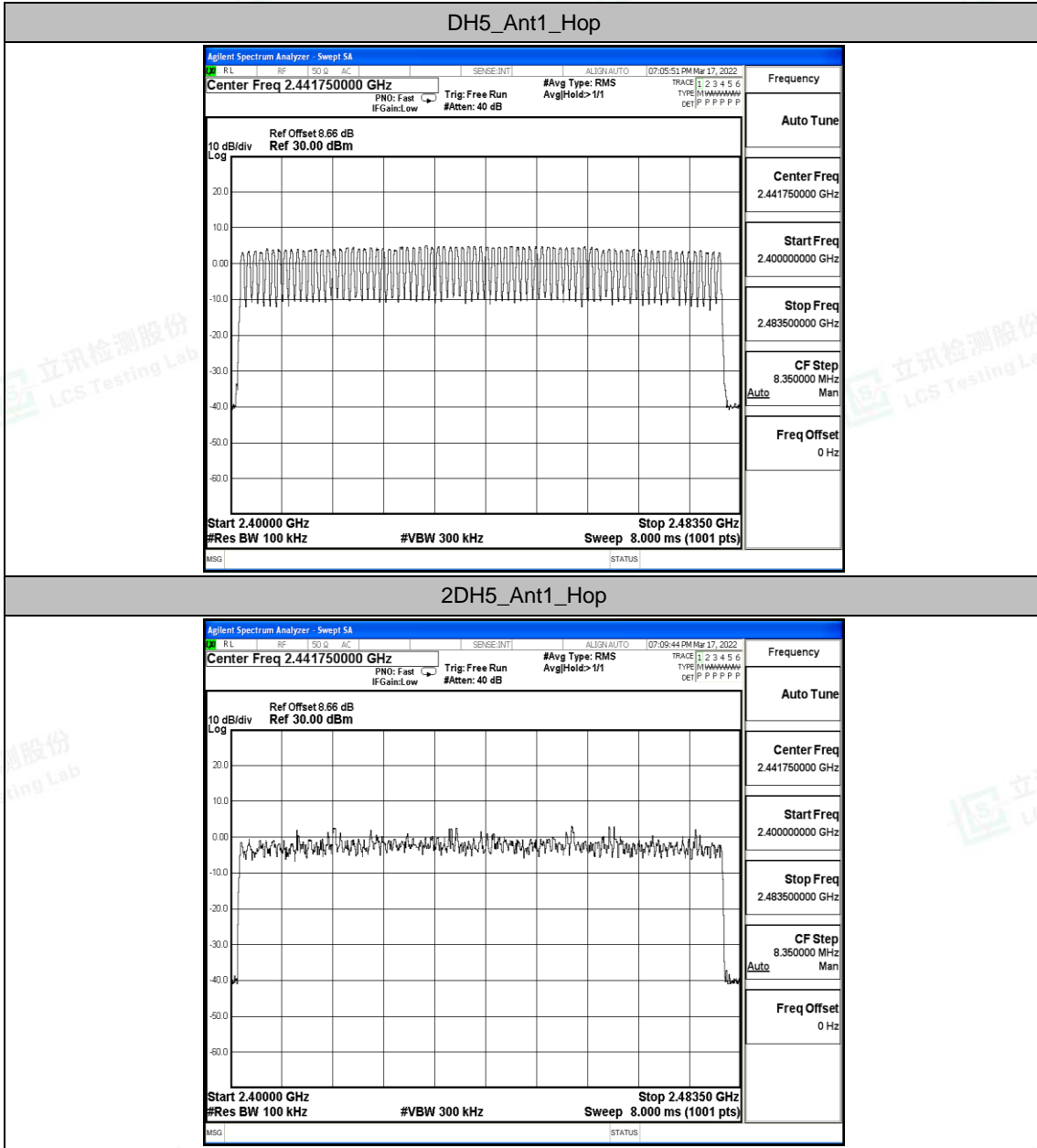
Test Result

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





Test Graphs



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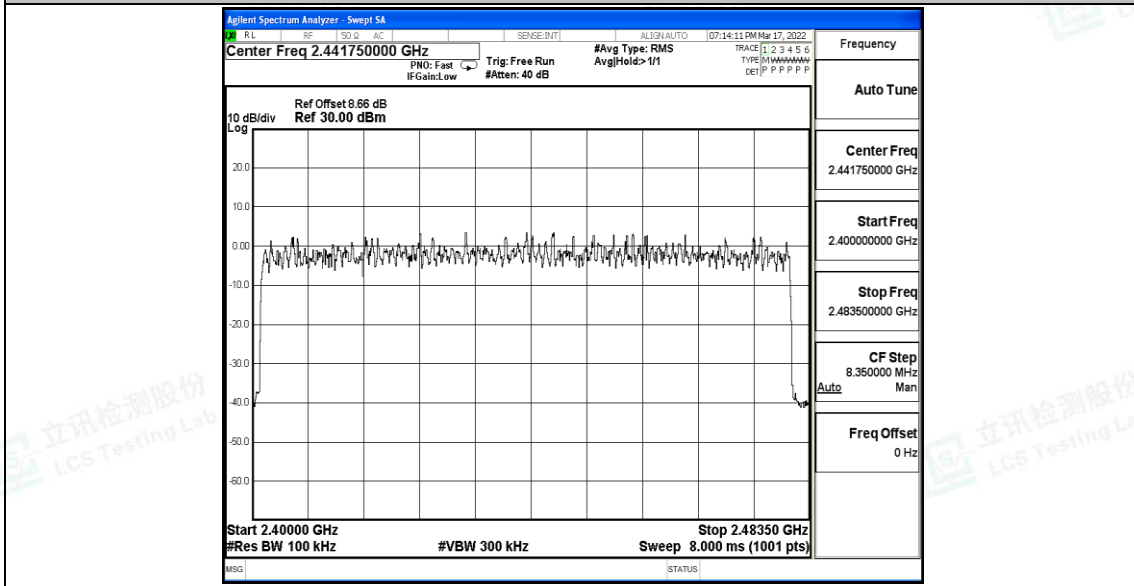
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3DH5_Ant1_Hop



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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	3.54	-51.94	≤-16.47	PASS
		High	2480	3.27	-57.59	≤-16.73	PASS
		Low	Hop_2402	2.87	-59.07	≤-17.14	PASS
		High	Hop_2480	3.69	-57.15	≤-16.31	PASS
2DH5	Ant1	Low	2402	1.85	-53.95	≤-18.15	PASS
		High	2480	1.65	-57.72	≤-18.35	PASS
		Low	Hop_2402	-0.29	-58.42	≤-20.29	PASS
		High	Hop_2480	2.20	-57.56	≤-17.8	PASS
3DH5	Ant1	Low	2402	0.40	-55.34	≤-19.6	PASS
		High	2480	1.86	-57.98	≤-18.14	PASS
		Low	Hop_2402	-1.23	-58.65	≤-21.23	PASS
		High	Hop_2480	2.48	-57.64	≤-17.52	PASS



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Test Graphs



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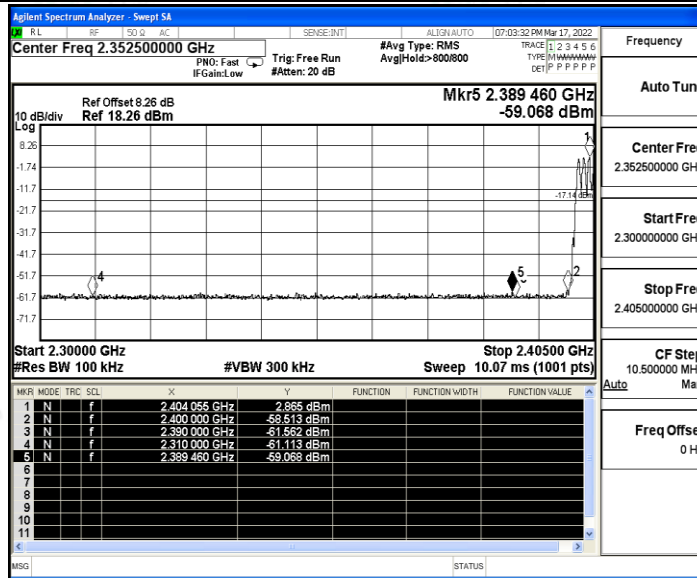
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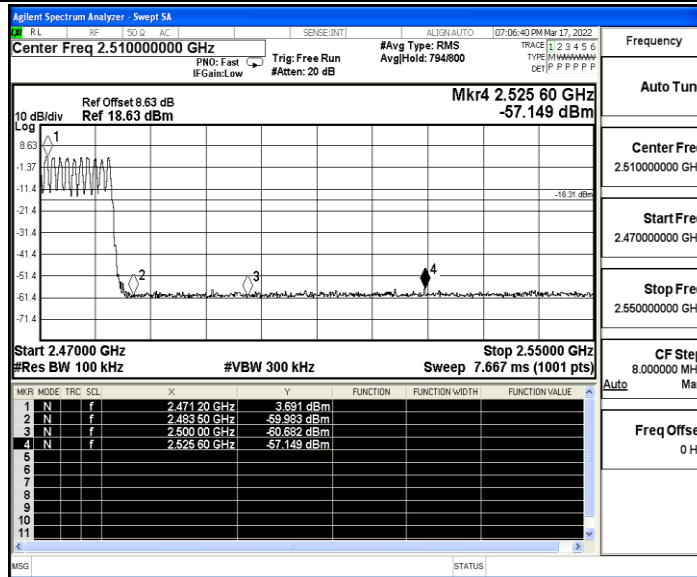
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DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



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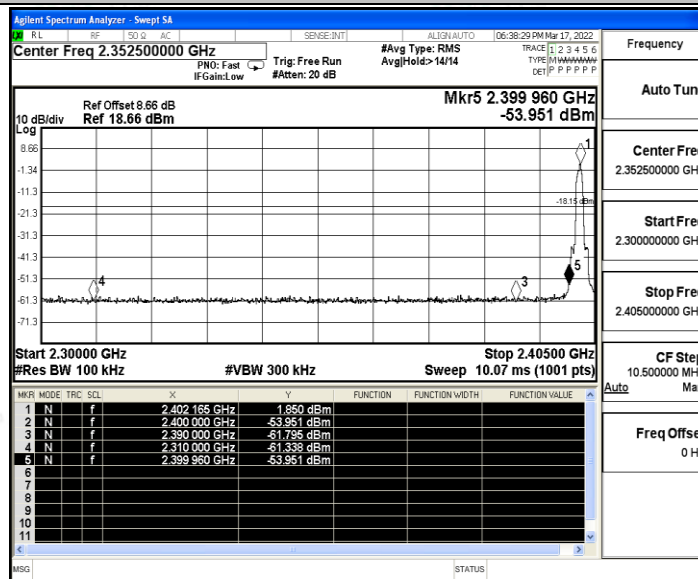
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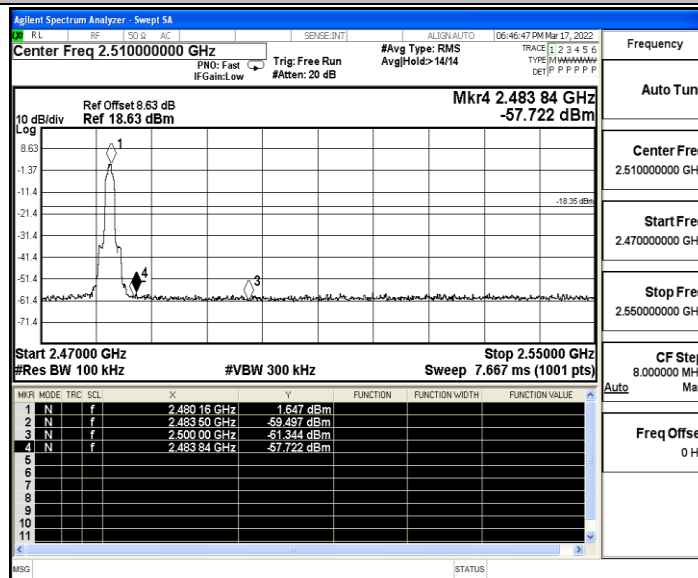
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2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



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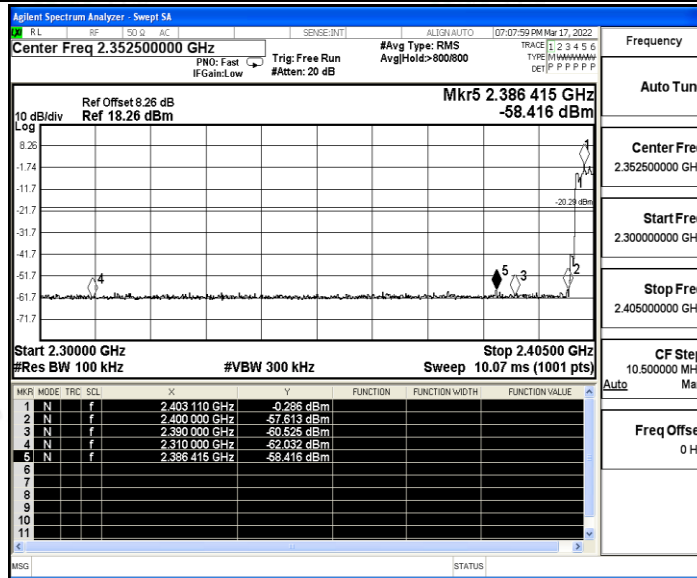
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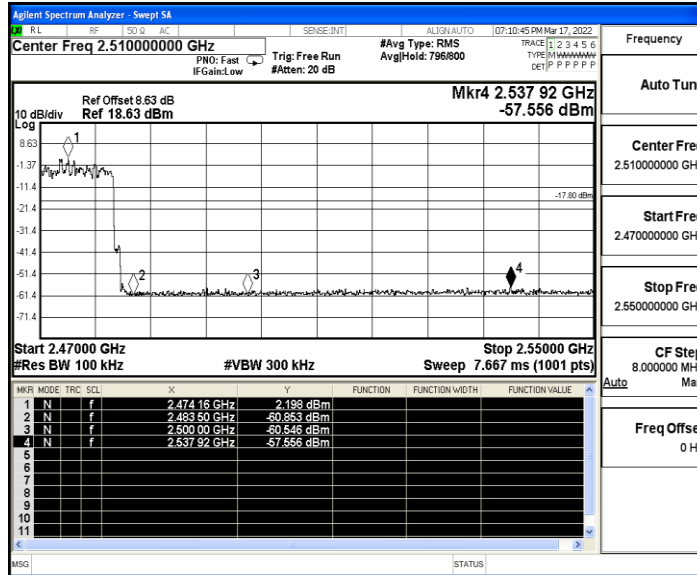
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2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



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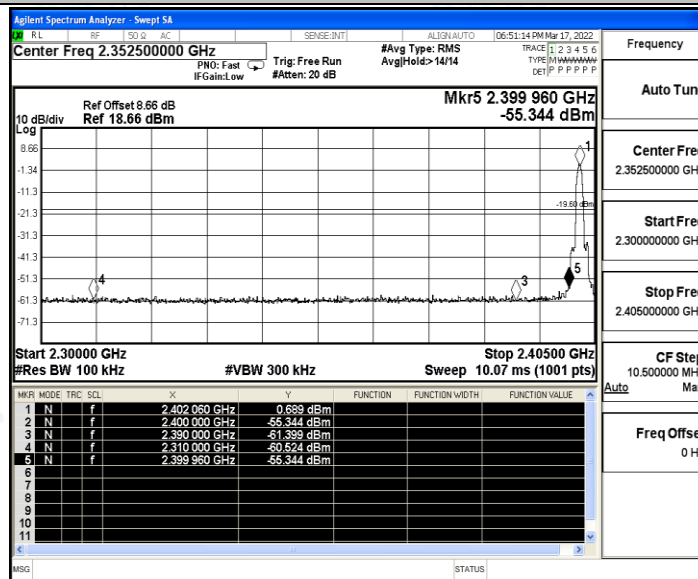
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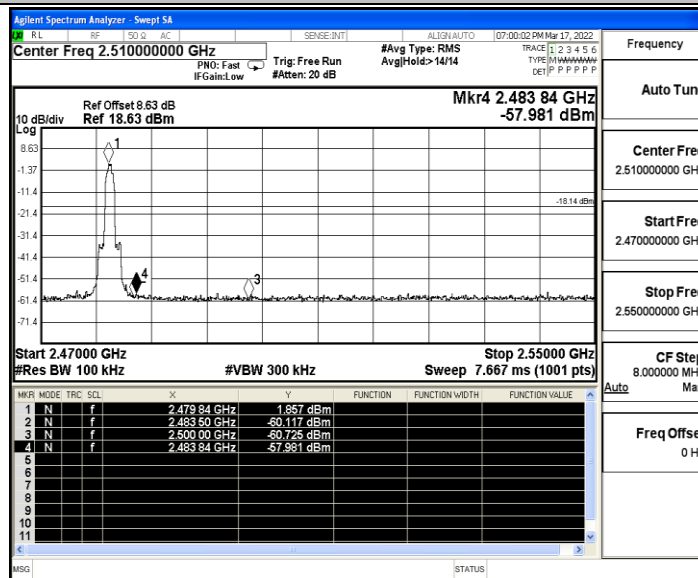
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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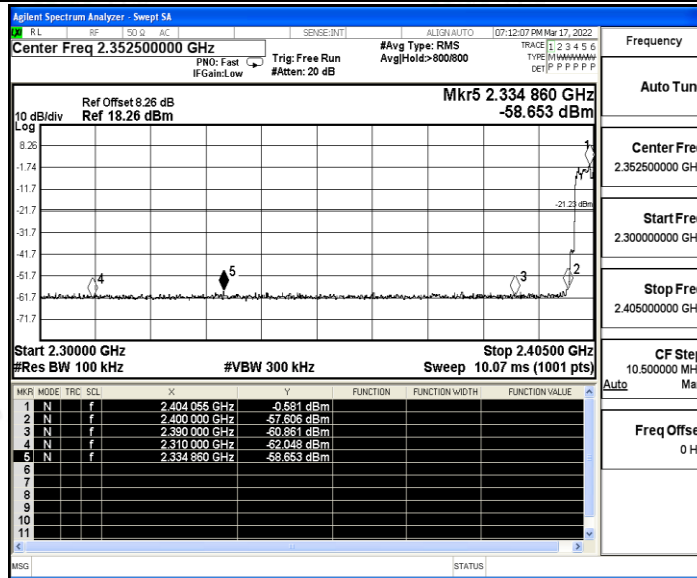
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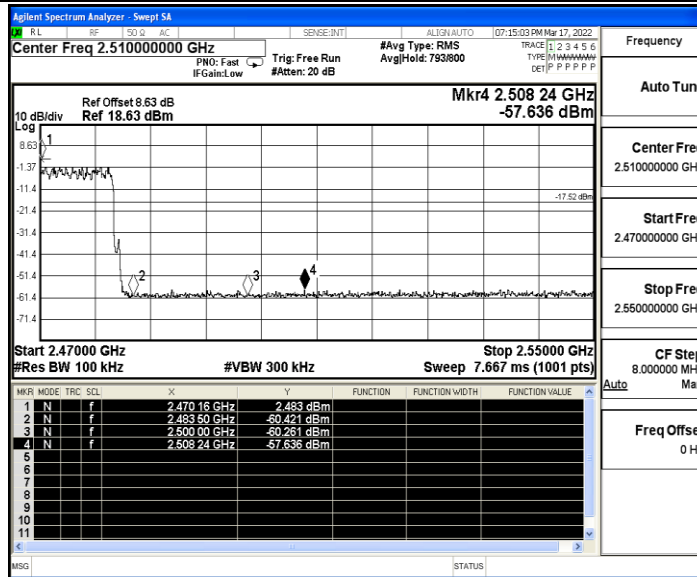
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3DH5_Ant1_Low_Hop_2402



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	3.47	3.47	---	PASS
			30~1000	3.47	-60.8	≤-16.53	PASS
			1000~26500	3.47	-46.04	≤-16.53	PASS
		2441	Reference	4.89	4.89	---	PASS
			30~1000	4.89	-60.44	≤-15.11	PASS
			1000~26500	4.89	-46.17	≤-15.11	PASS
		2480	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-60.97	≤-16.81	PASS
			1000~26500	3.19	-46.69	≤-16.81	PASS
2DH5	Ant1	2402	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-60.77	≤-18.32	PASS
			1000~26500	1.68	-45.98	≤-18.32	PASS
		2441	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-60.64	≤-16.78	PASS
			1000~26500	3.22	-45.67	≤-16.78	PASS
		2480	Reference	1.86	1.86	---	PASS
			30~1000	1.86	-60.64	≤-18.14	PASS
			1000~26500	1.86	-46.17	≤-18.14	PASS
3DH5	Ant1	2402	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-60.81	≤-18.07	PASS
			1000~26500	1.93	-46.16	≤-18.07	PASS
		2441	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-60.23	≤-17.06	PASS
			1000~26500	2.94	-46.03	≤-17.06	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-60.51	≤-18.1	PASS
			1000~26500	1.90	-46.11	≤-18.1	PASS



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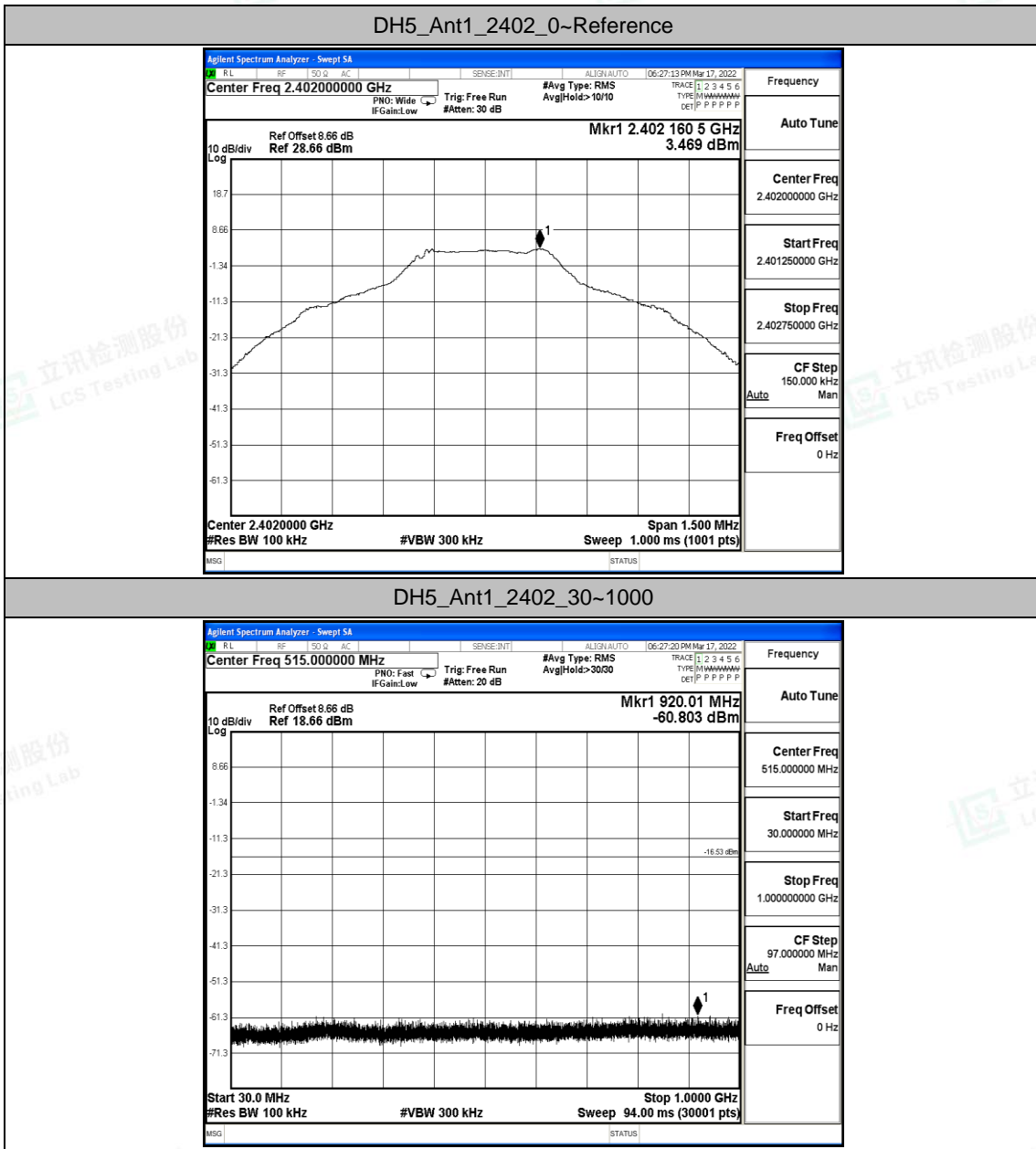
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Test Graphs



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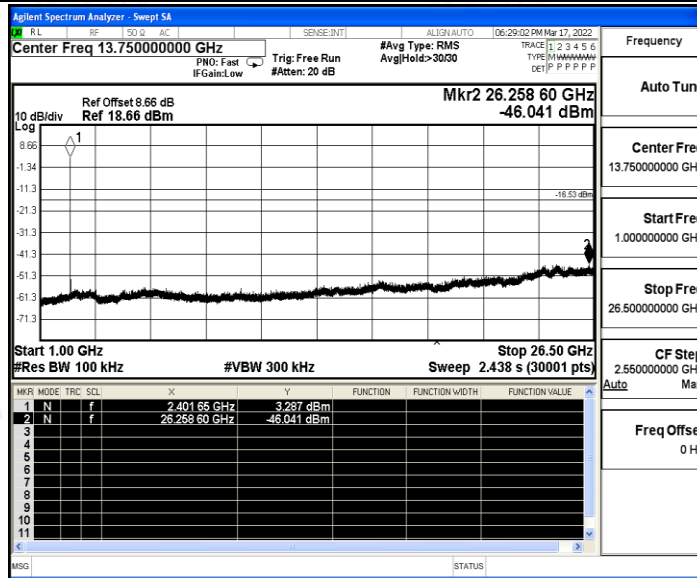
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

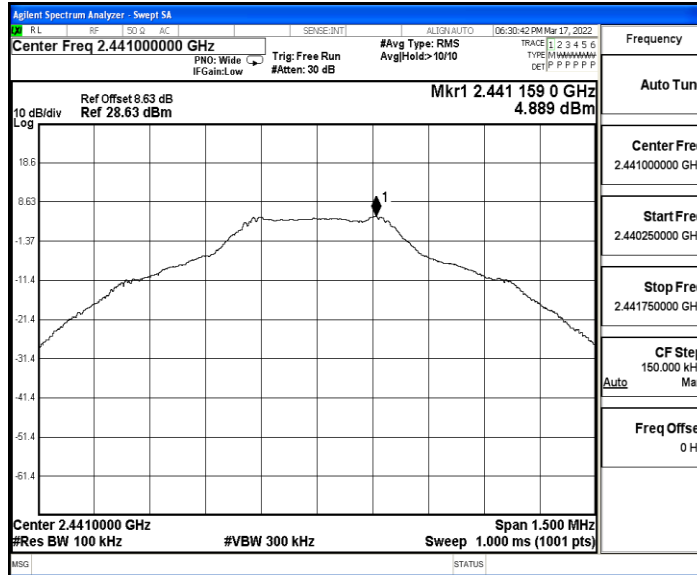
Scan code to check authenticity



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



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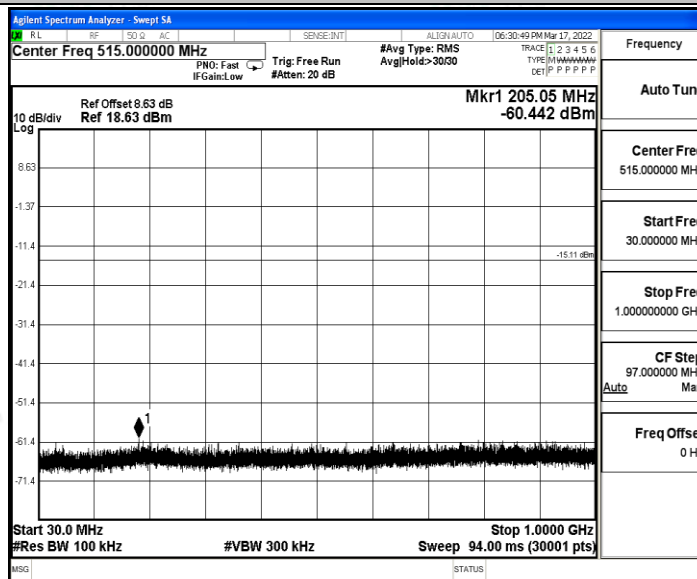
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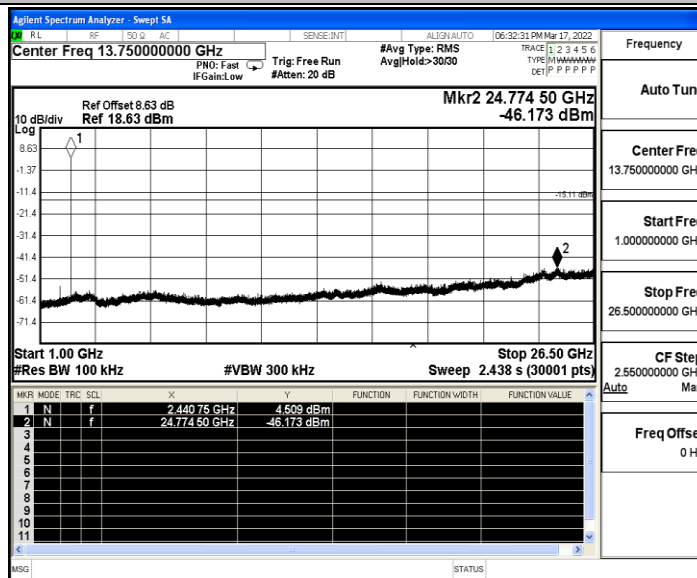
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DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



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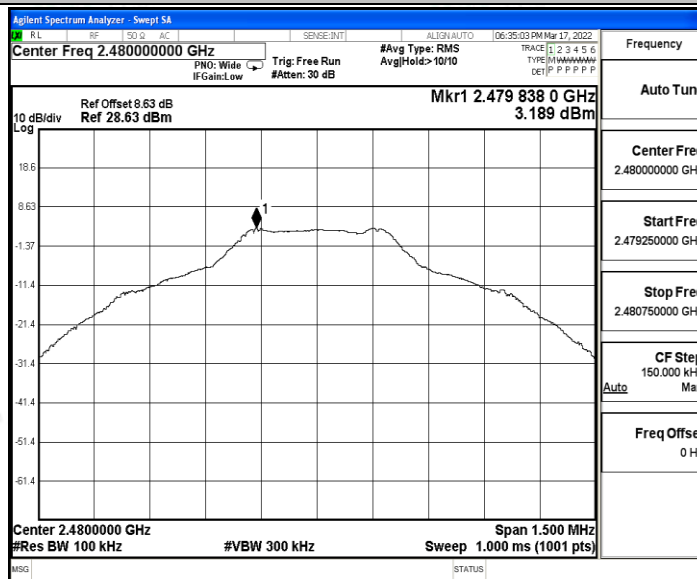
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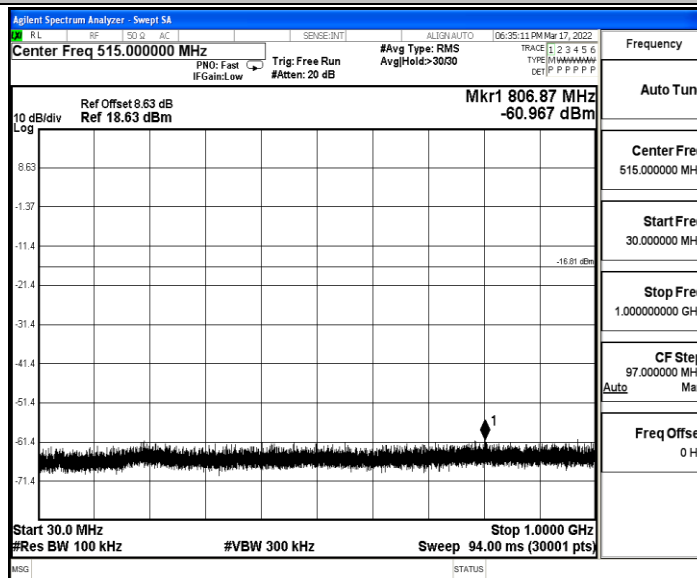
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DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



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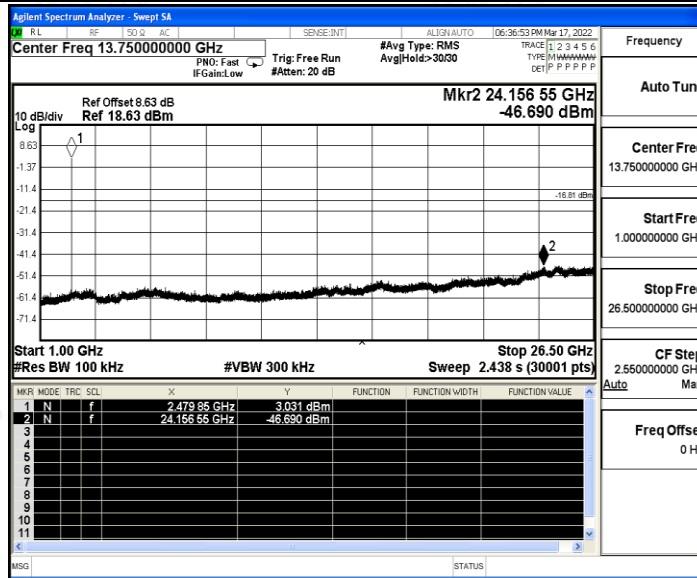
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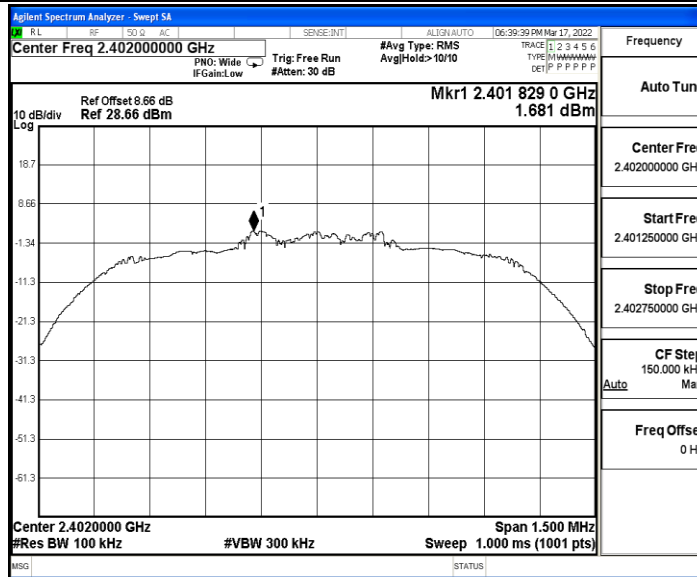
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



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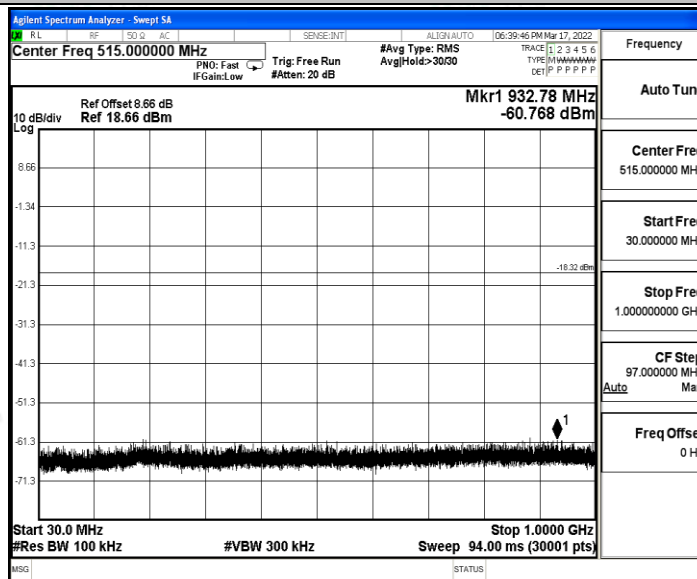
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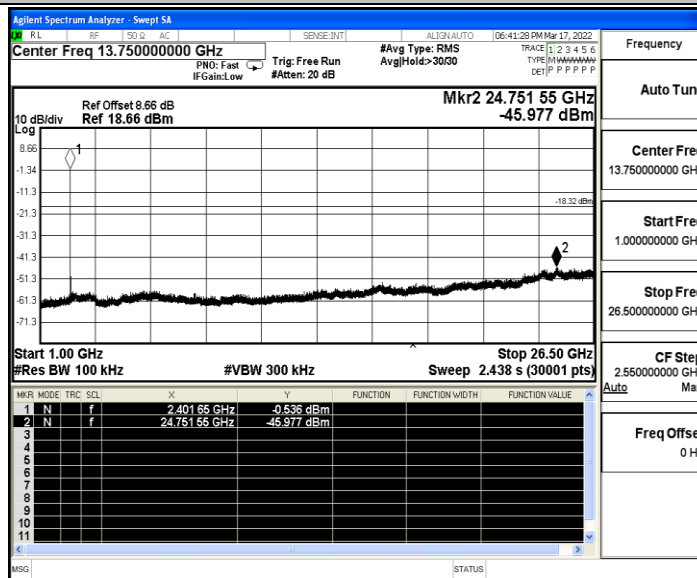
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2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



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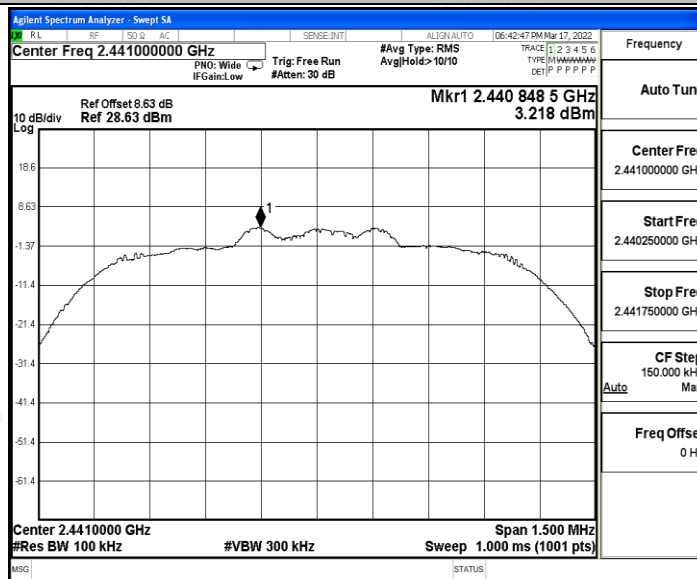
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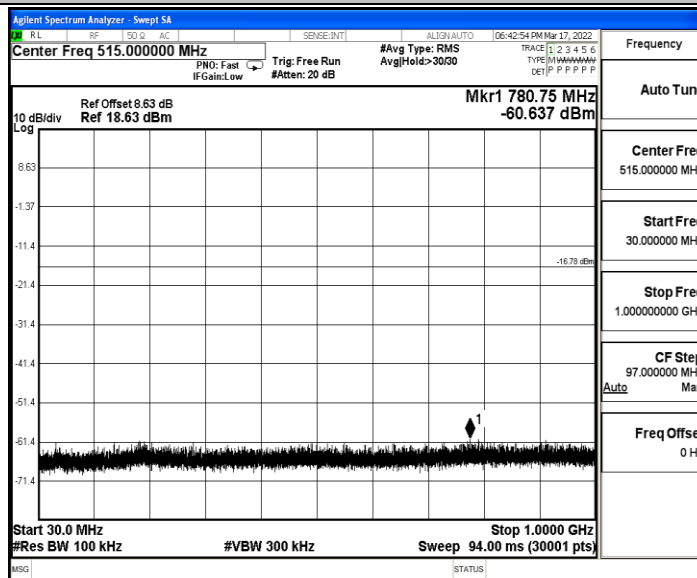
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2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



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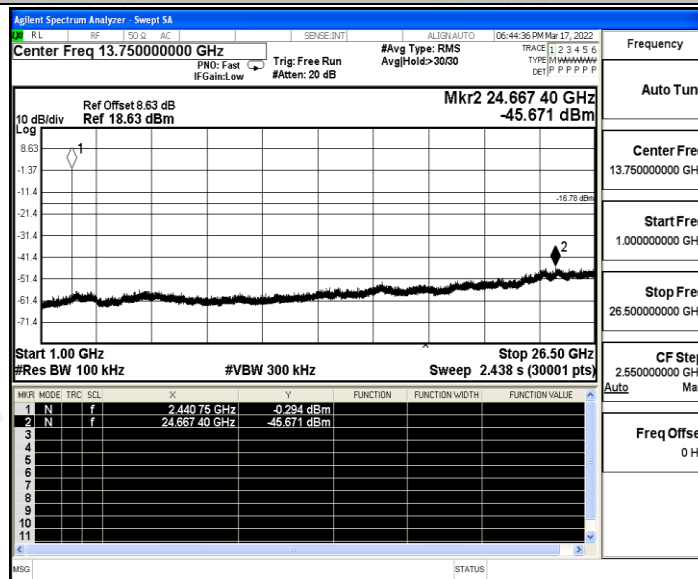
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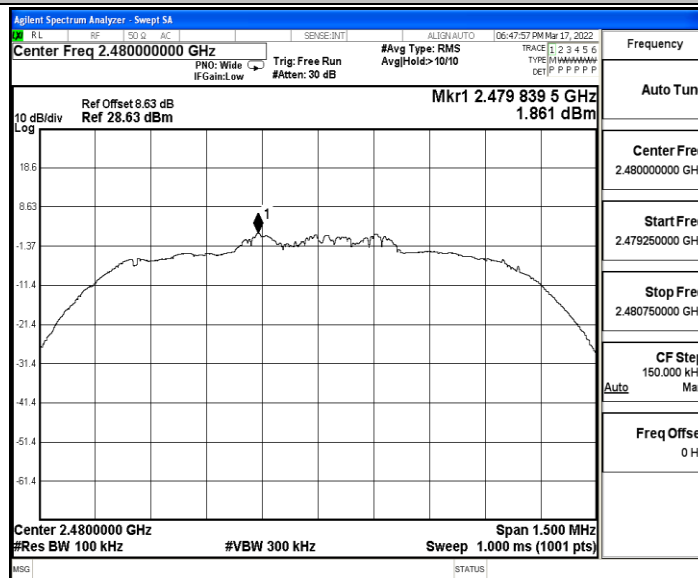
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2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference

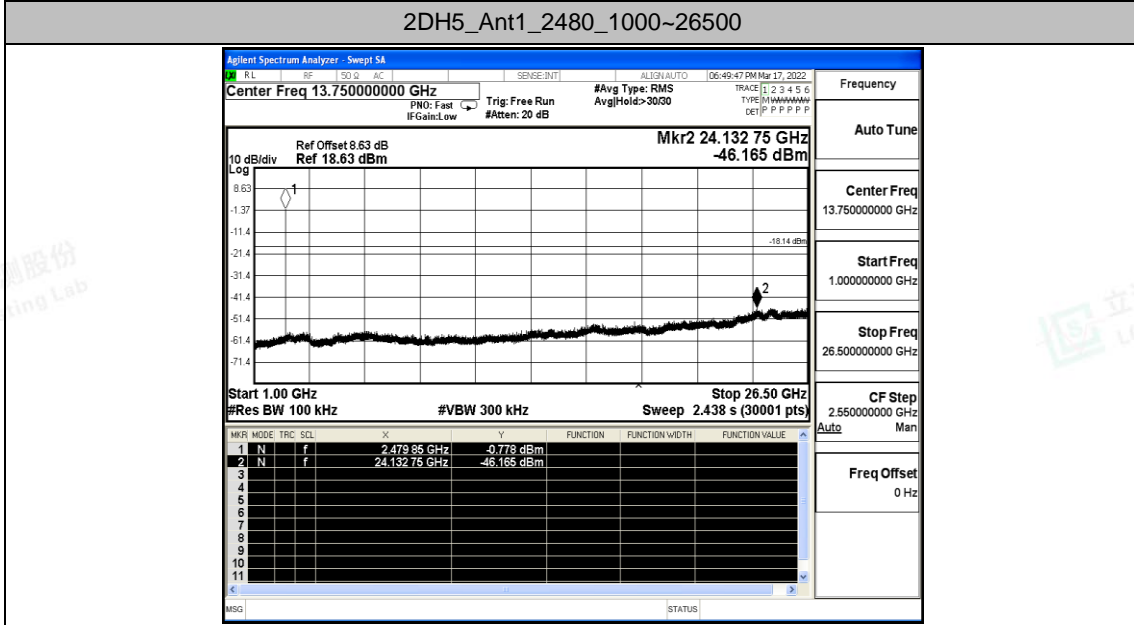
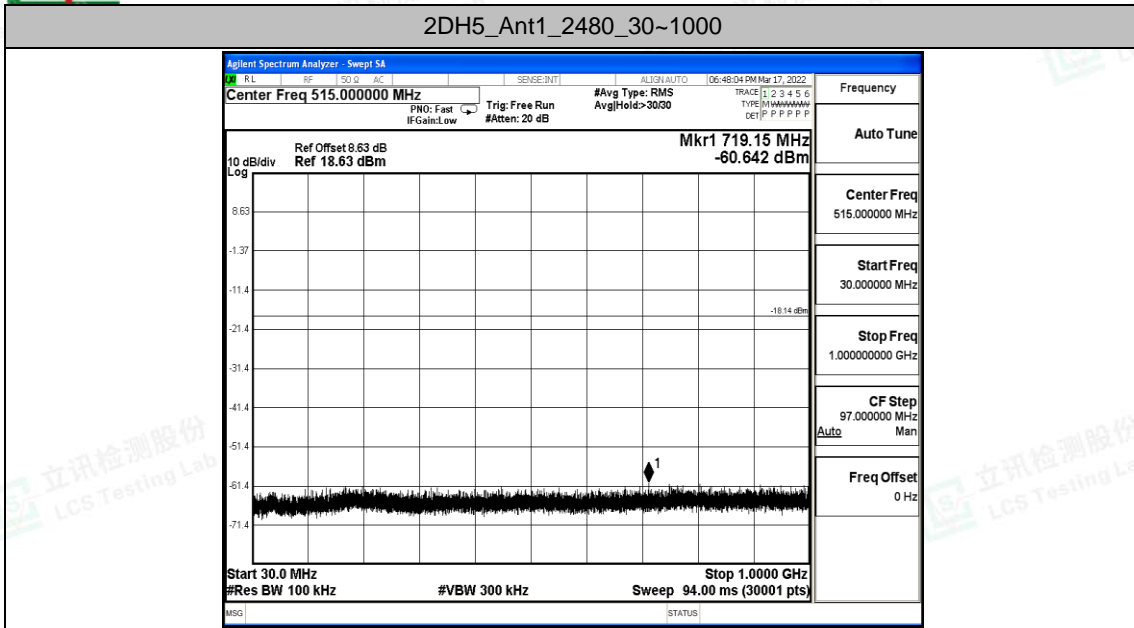


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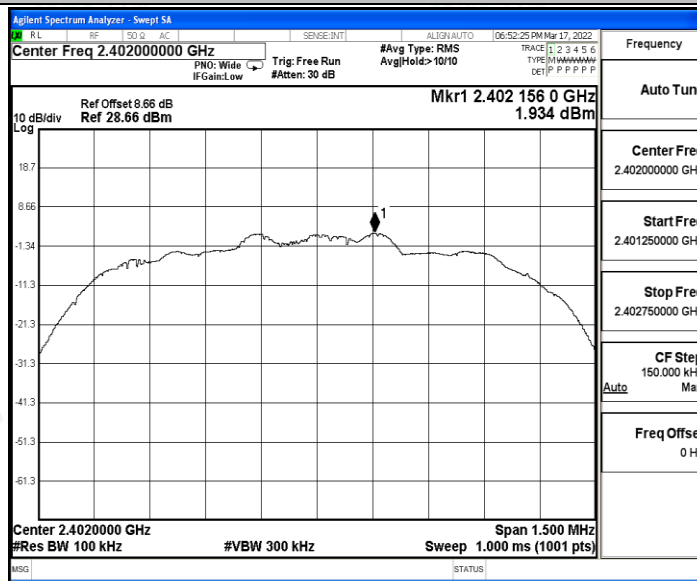
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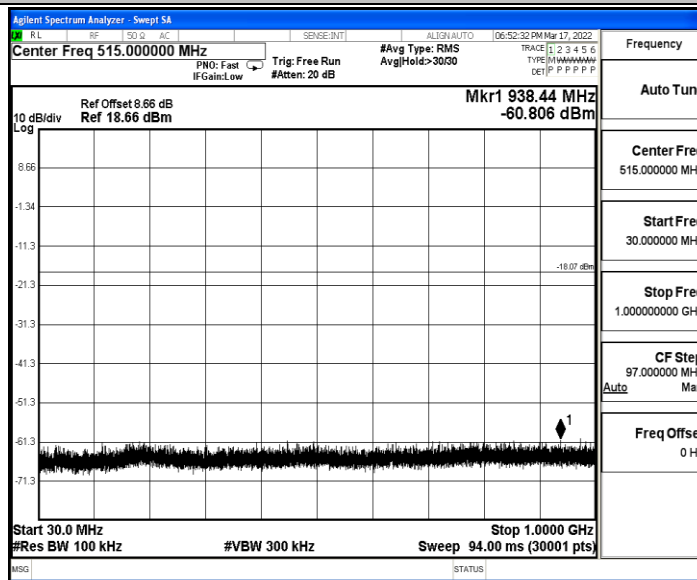
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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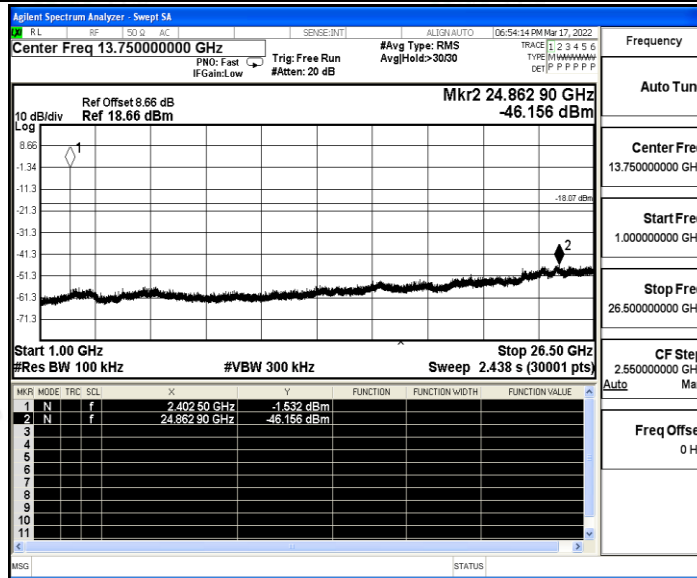
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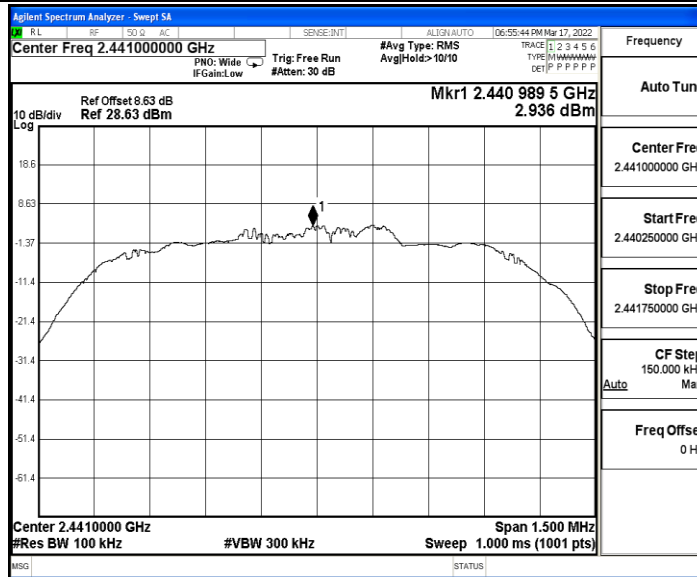
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



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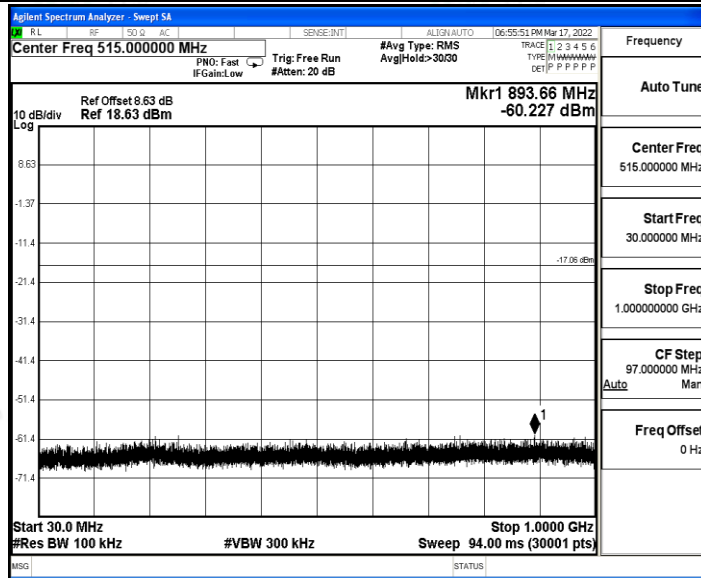
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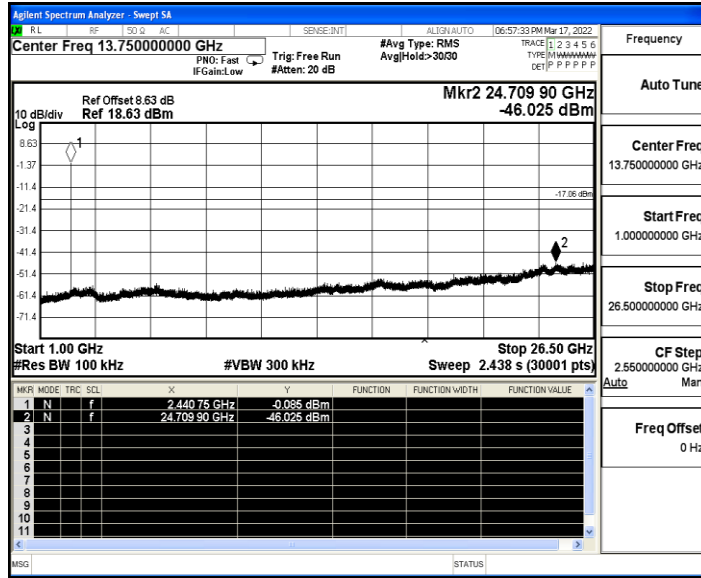
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



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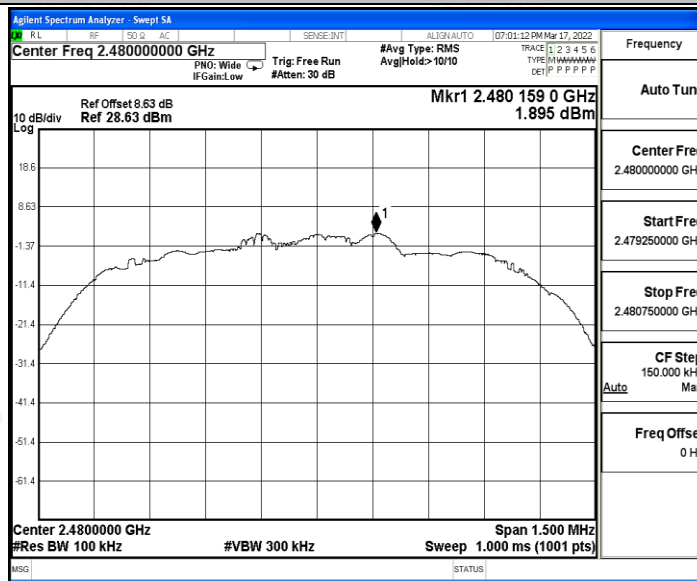
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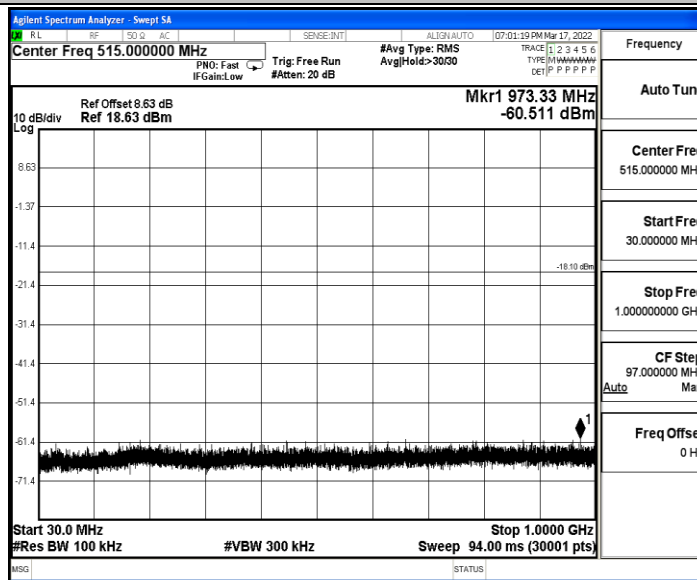
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3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



Shenzhen LCS Compliance Testing Laboratory Ltd.

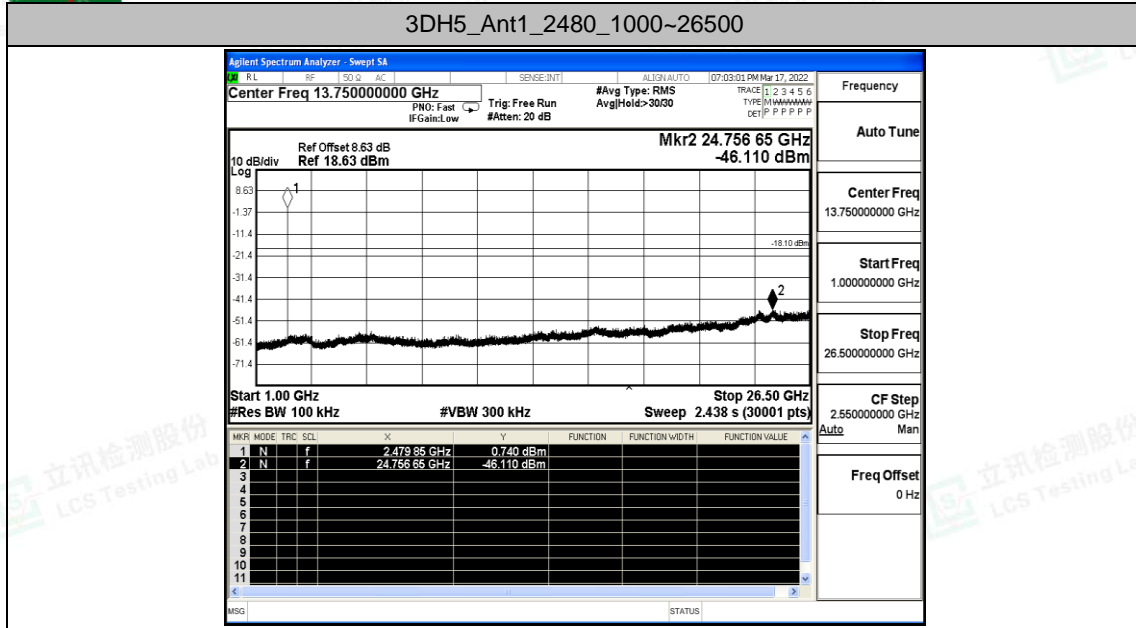
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3DH5_Ant1_2480_1000~26500



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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	-58.11	≤-41.20	37.09	≤54	PASS		
				AV	2386.940	-57.5	≤-41.20	37.70	≤54	PASS		
				AV	2390.000	-57.61	≤-41.20	37.59	≤54	PASS		
				Peak	2310.000	-48.92	≤-21.20	46.28	≤74	PASS		
				Peak	2348.825	-46.66	≤-21.20	48.54	≤74	PASS		
				Peak	2390.000	-47.78	≤-21.20	47.42	≤74	PASS		
		High	2480	AV	2483.500	-53.67	≤-41.20	41.53	≤54	PASS		
				AV	2483.520	-53.67	≤-41.20	41.53	≤54	PASS		
				AV	2500.000	-57.02	≤-41.20	38.18	≤54	PASS		
				Peak	2483.500	-47.02	≤-21.20	48.18	≤74	PASS		
				Peak	2483.920	-45.74	≤-21.20	49.46	≤74	PASS		
				Peak	2500.000	-47.55	≤-21.20	47.65	≤74	PASS		
		Low	Hop_2402	Peak	2310.000	-48.89	≤-21.20	46.31	≤74	PASS		
				Peak	2377.700	-46.16	≤-21.20	49.04	≤74	PASS		
				Peak	2390.000	-48.71	≤-21.20	46.49	≤74	PASS		
		High	Hop_2480	Peak	2483.500	-47.52	≤-21.20	47.68	≤74	PASS		
				Peak	2486.000	-46.09	≤-21.20	49.11	≤74	PASS		
				Peak	2500.000	-47.55	≤-21.20	47.65	≤74	PASS		
		2DH5	Ant1	Low	2402	AV	2310.000	-58.17	≤-41.20	37.03	≤54	PASS
						AV	2389.880	-57.58	≤-41.20	37.62	≤54	PASS
						AV	2390.000	-57.67	≤-41.20	37.53	≤54	PASS
Peak	2310.000					-48.55	≤-21.20	46.65	≤74	PASS		
Peak	2376.230					-46.72	≤-21.20	48.48	≤74	PASS		
Peak	2390.000					-48.17	≤-21.20	47.03	≤74	PASS		
High	2480			AV	2483.500	-53.39	≤-41.20	41.81	≤54	PASS		
				AV	2483.520	-53.39	≤-41.20	41.81	≤54	PASS		
				AV	2500.000	-57.17	≤-41.20	38.03	≤54	PASS		
				Peak	2483.500	-46.35	≤-21.20	48.85	≤74	PASS		
				Peak	2485.200	-46.16	≤-21.20	49.04	≤74	PASS		
				Peak	2500.000	-47.01	≤-21.20	48.19	≤74	PASS		
Low	Hop_2402			Peak	2310.000	-49.45	≤-21.20	45.75	≤74	PASS		
				Peak	2377.490	-46.25	≤-21.20	48.95	≤74	PASS		
				Peak	2390.000	-48.44	≤-21.20	46.76	≤74	PASS		
High	Hop_2480	Peak	2483.500	-47.76	≤-21.20	47.44	≤74	PASS				



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3DH5	Ant1	80	Peak	2483.840	-45.66	≤-21.20	49.54	≤74	PASS	
			Peak	2500.000	-47.71	≤-21.20	47.49	≤74	PASS	
		Low	2402	AV	2310.000	-58.04	≤-41.20	37.16	≤54	PASS
				AV	2383.160	-57.55	≤-41.20	37.65	≤54	PASS
				AV	2390.000	-57.66	≤-41.20	37.54	≤54	PASS
				Peak	2310.000	-47.81	≤-21.20	47.39	≤74	PASS
				Peak	2355.335	-45.98	≤-21.20	49.22	≤74	PASS
				Peak	2390.000	-47.82	≤-21.20	47.38	≤74	PASS
		High	2480	AV	2483.500	-53.06	≤-41.20	42.14	≤54	PASS
				AV	2483.520	-53.06	≤-41.20	42.14	≤54	PASS
				AV	2500.000	-57.08	≤-41.20	38.12	≤54	PASS
				Peak	2483.500	-46.11	≤-21.20	49.09	≤74	PASS
				Peak	2490.160	-45.13	≤-21.20	50.07	≤74	PASS
				Peak	2500.000	-47.19	≤-21.20	48.01	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.13	≤-21.20	46.07	≤74	PASS
				Peak	2387.990	-46.97	≤-21.20	48.23	≤74	PASS
				Peak	2390.000	-48.46	≤-21.20	46.74	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-46.9	≤-21.20	48.30	≤74	PASS
				Peak	2488.800	-46.15	≤-21.20	49.05	≤74	PASS
				Peak	2500.000	-48.25	≤-21.20	46.95	≤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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Test Graphs



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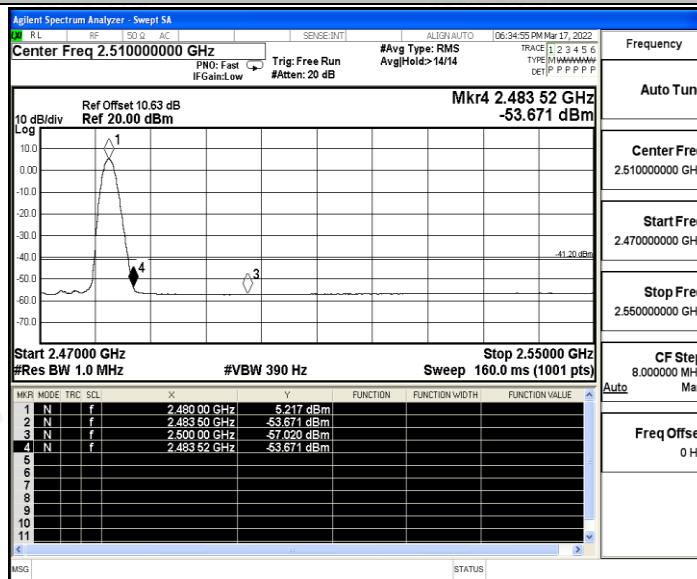
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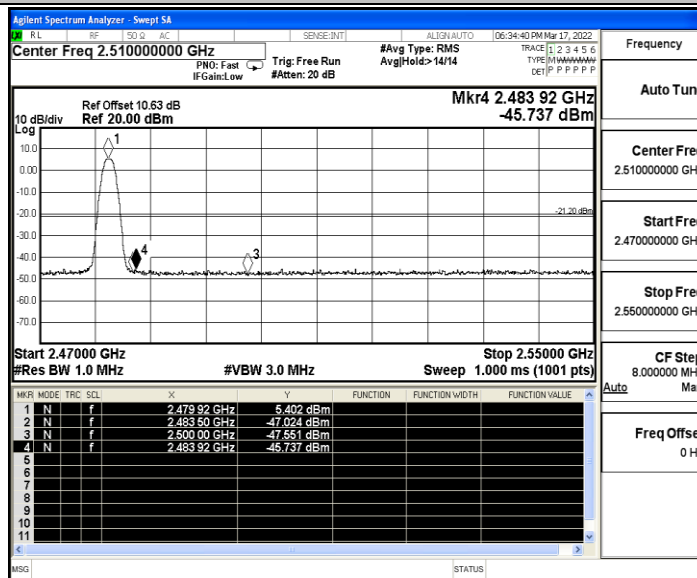
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DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



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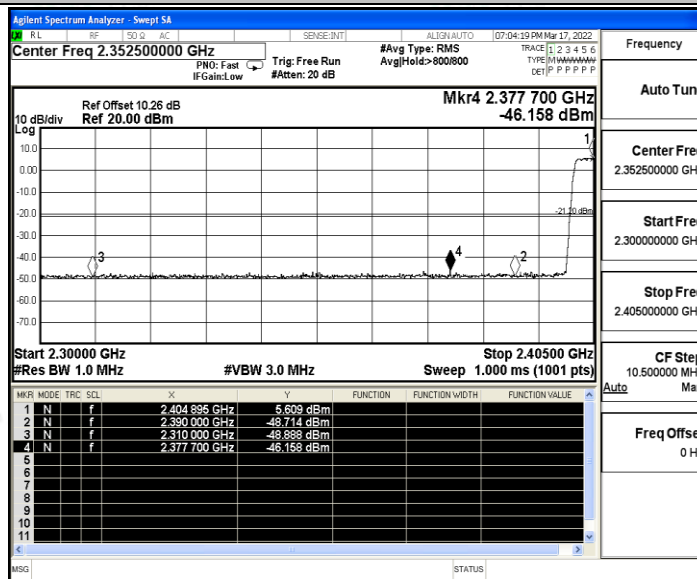
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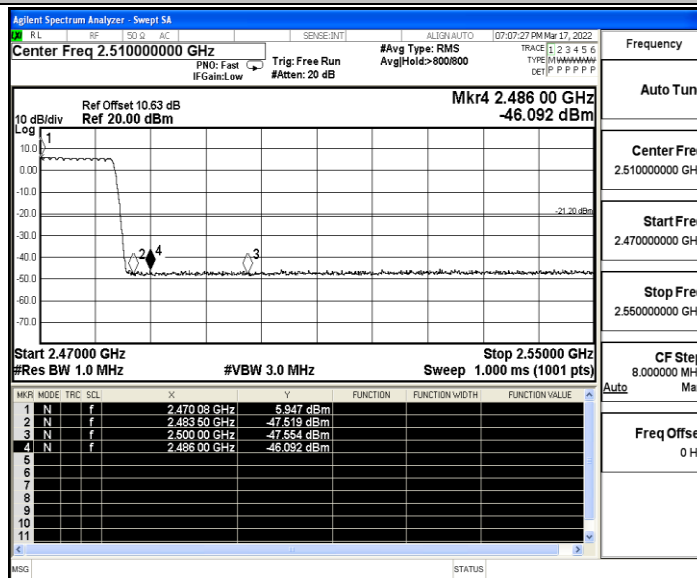
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DH5_Ant1_Low_Hop_2402_Peak



DH5_Ant1_High_Hop_2480_Peak



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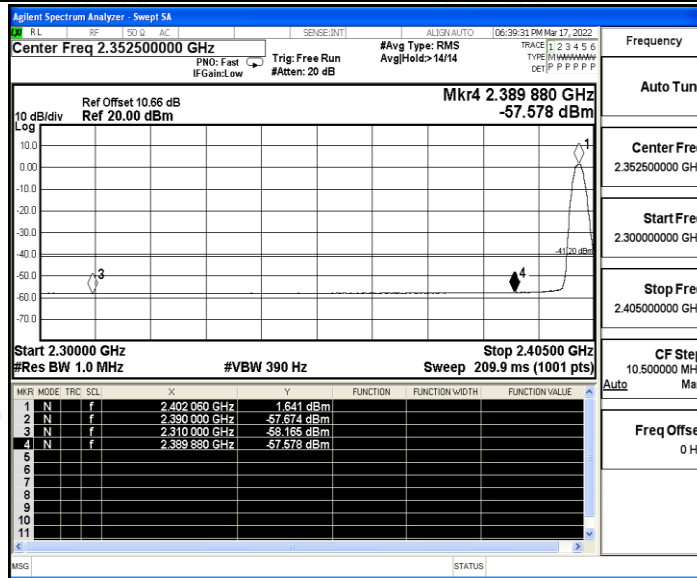
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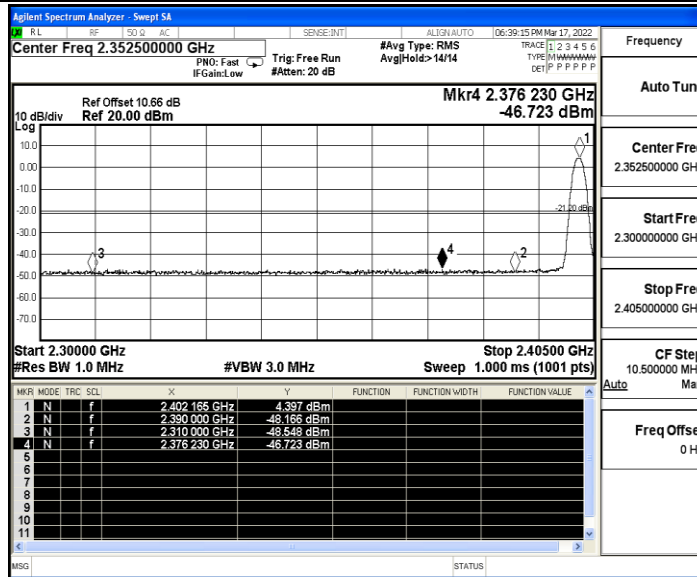
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2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



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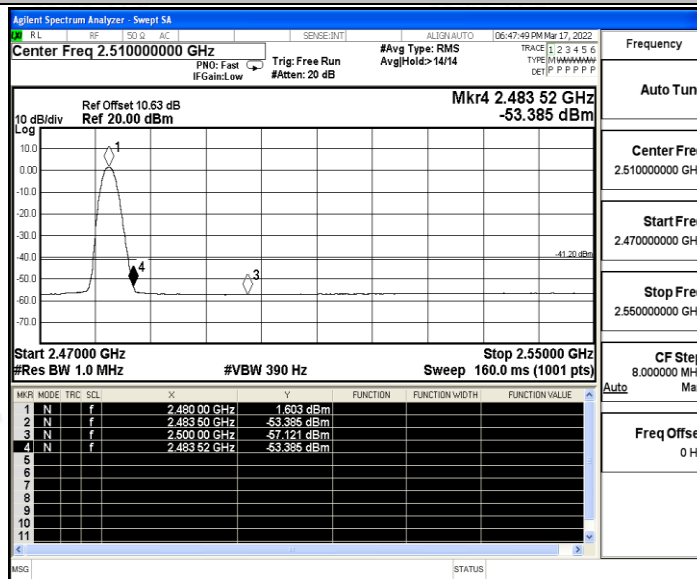
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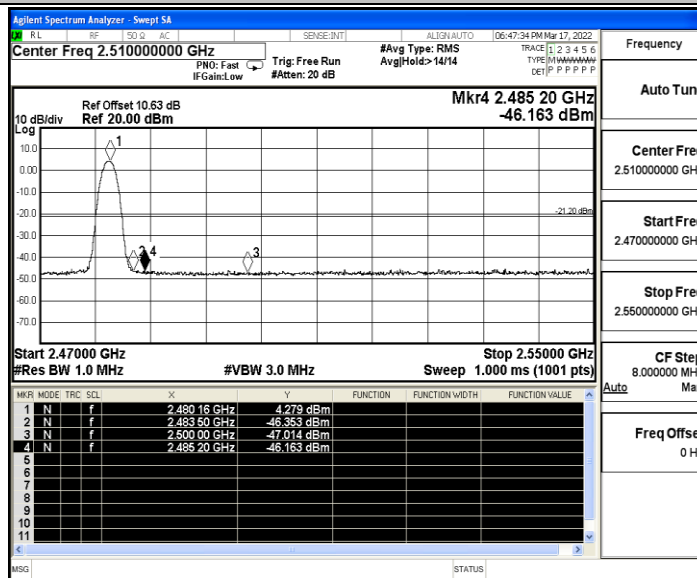
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2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



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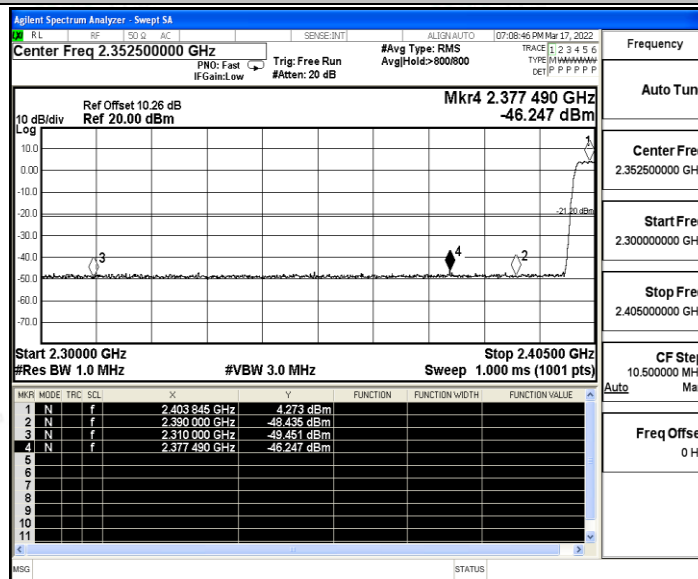
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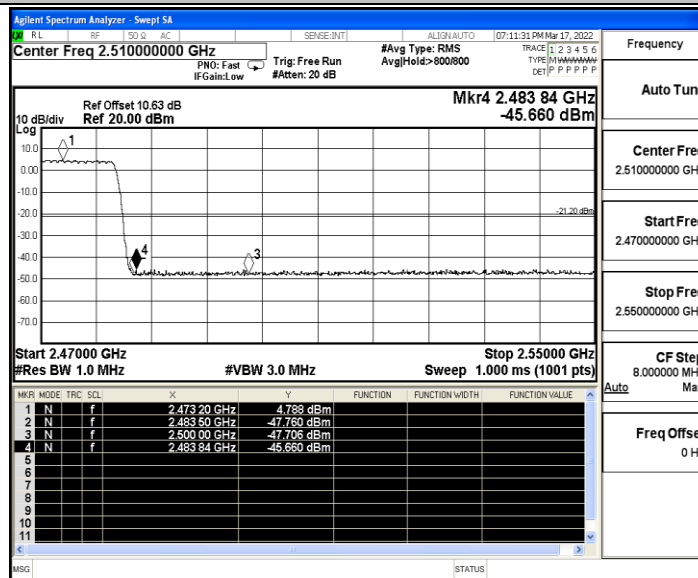
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2DH5_Ant1_Low_Hop_2402_Peak



2DH5_Ant1_High_Hop_2480_Peak



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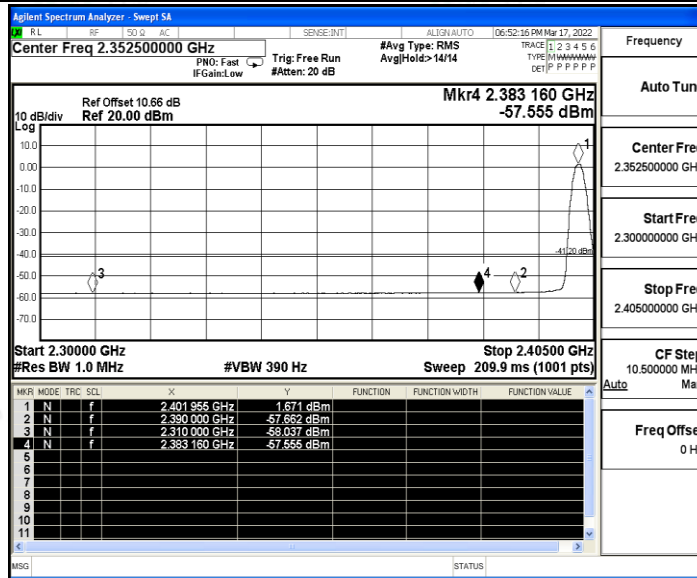
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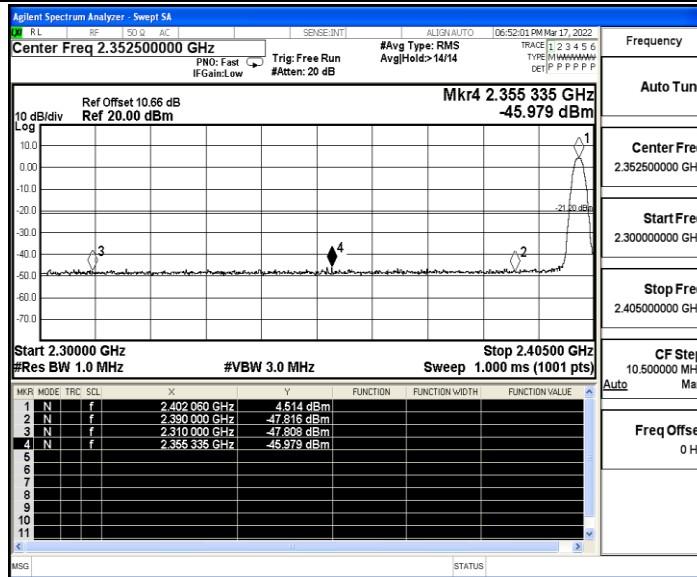
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3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



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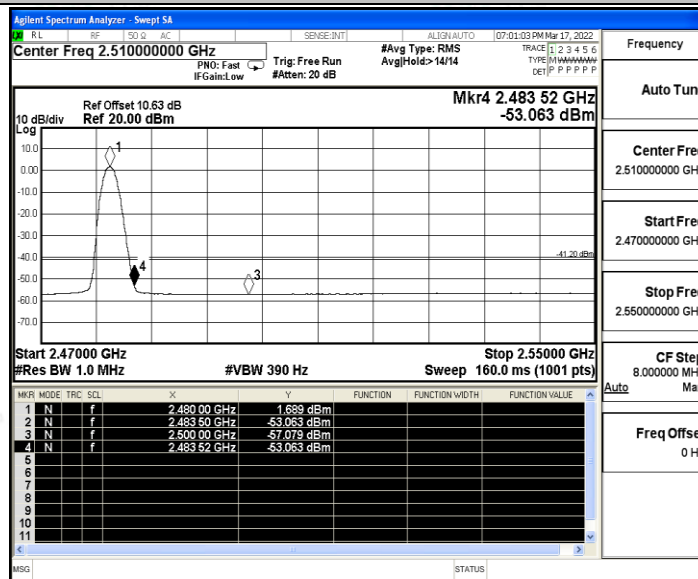
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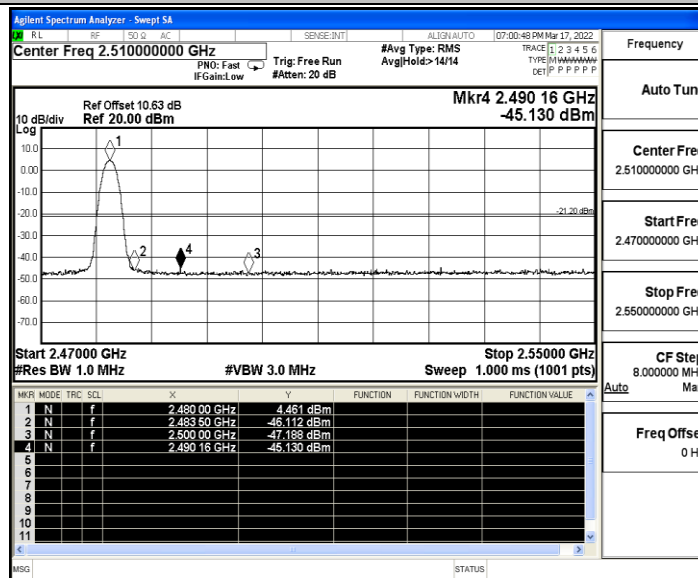
Scan code to check authenticity



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



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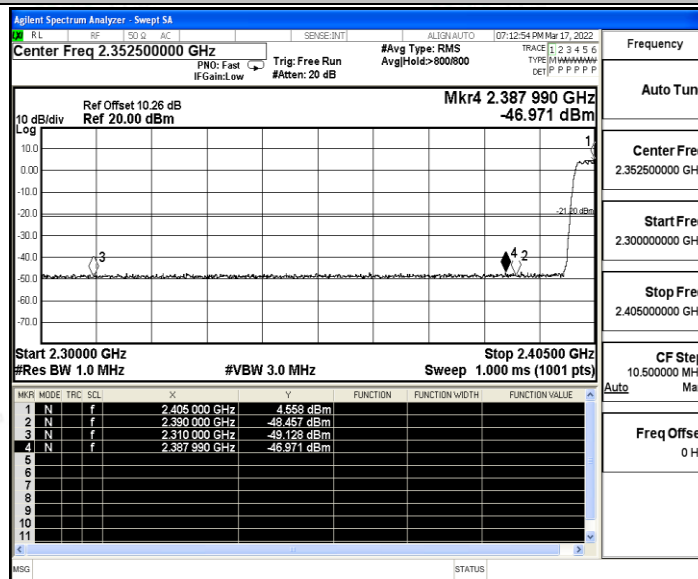
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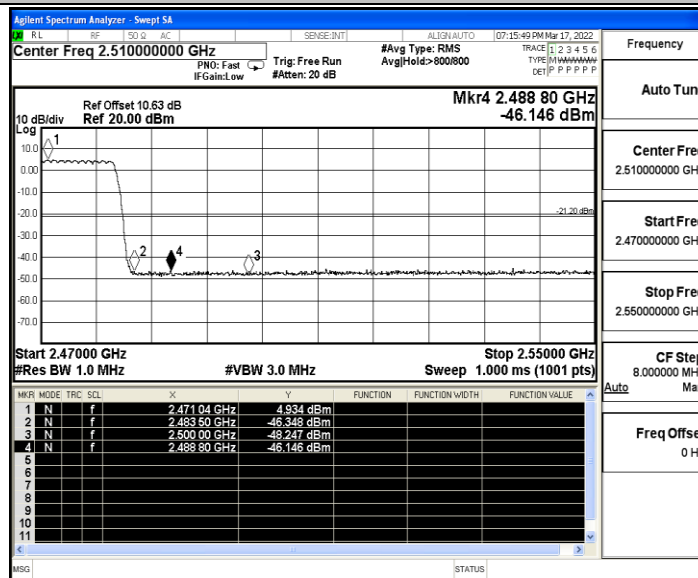
Scan code to check authenticity



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak



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