

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Novelty Wireless Speakers Heart,Novelty Wireless Speakers
Gummy
Test Model: IKSPKGUM-TA

Environmental Conditions

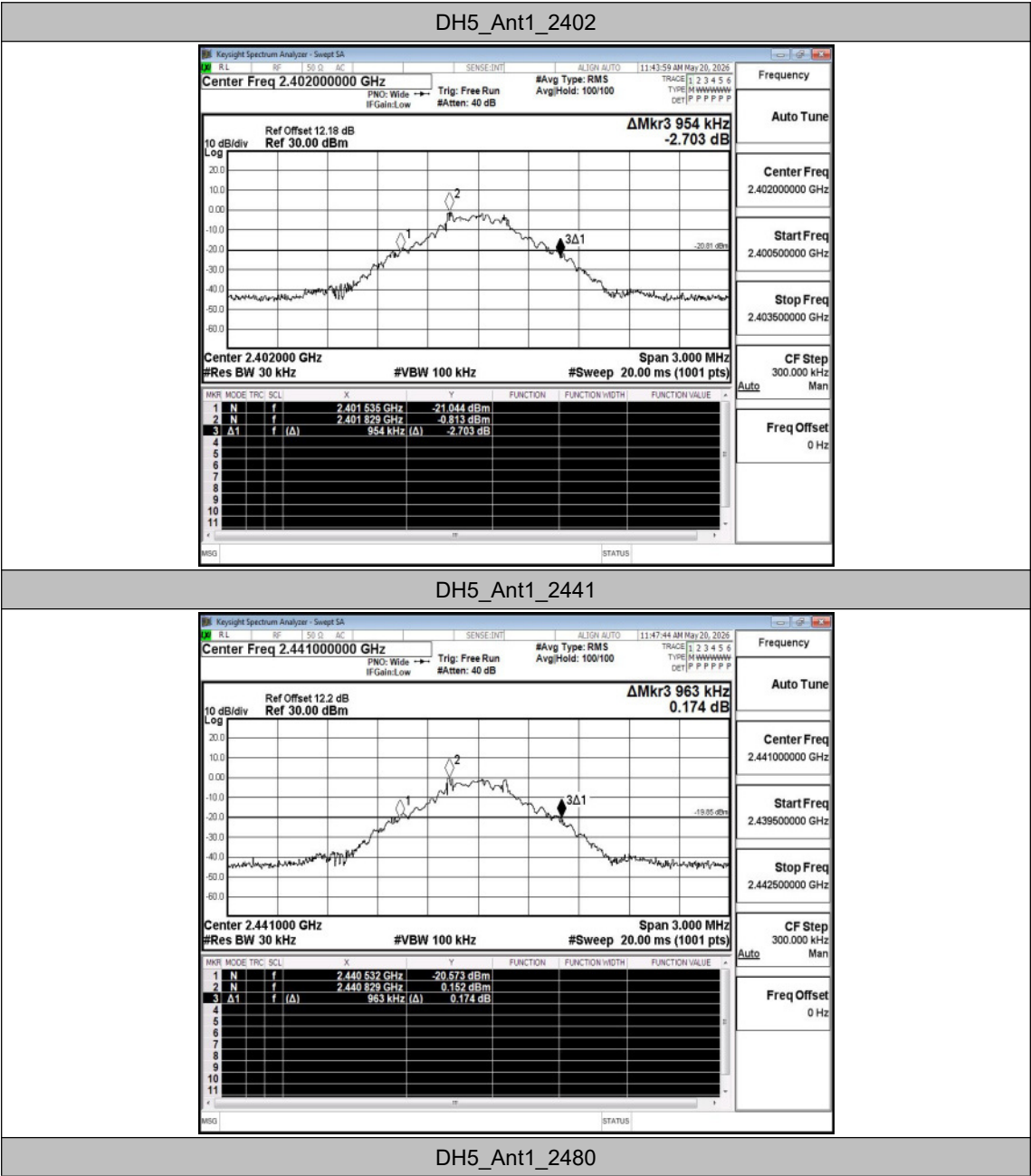
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

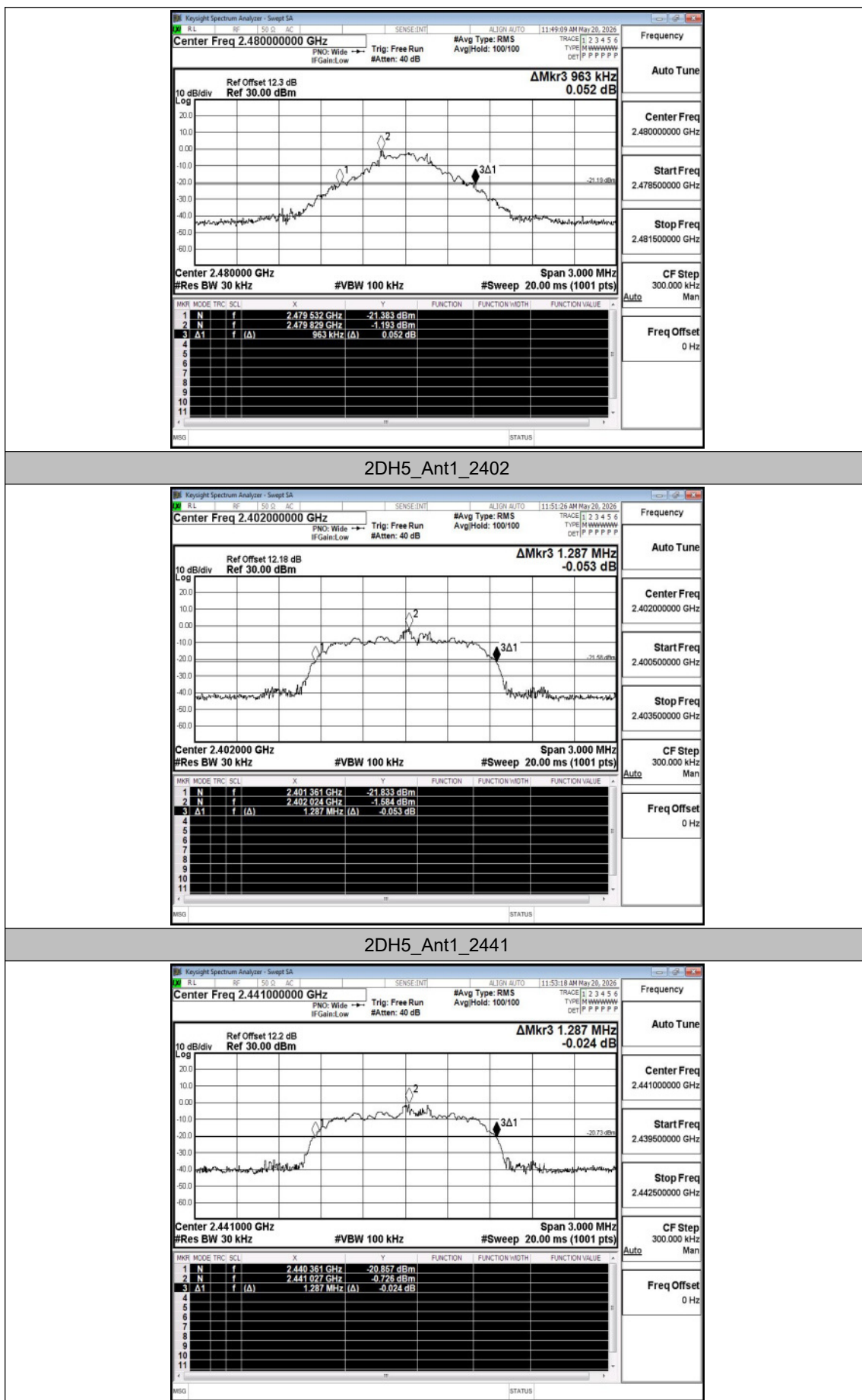
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.535	2402.489	---	---
		2441	0.963	2440.532	2441.495	---	---
		2480	0.963	2479.532	2480.495	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.287	2440.361	2441.648	---	---
		2480	1.287	2479.361	2480.648	---	---
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.302	2440.343	2441.645	---	---
		2480	1.305	2479.343	2480.648	---	---

Test Graphs



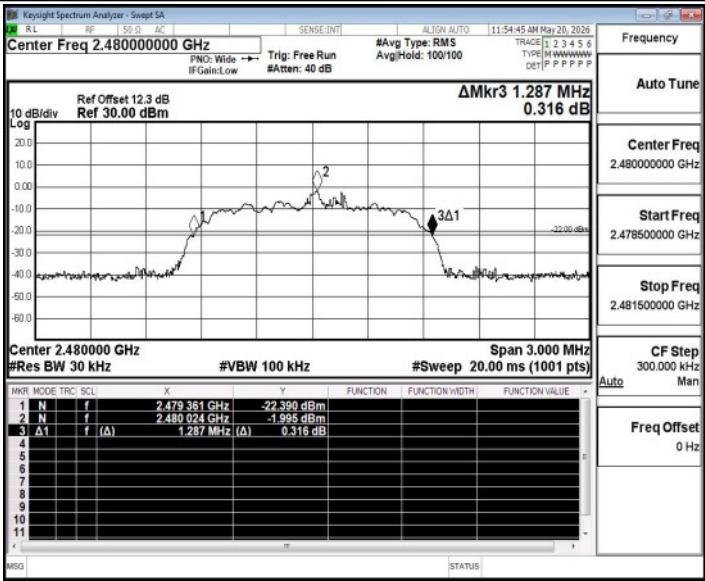


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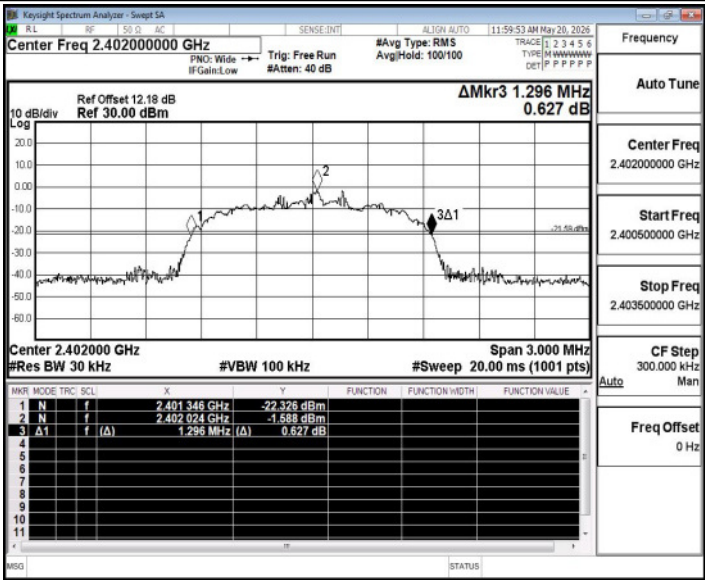
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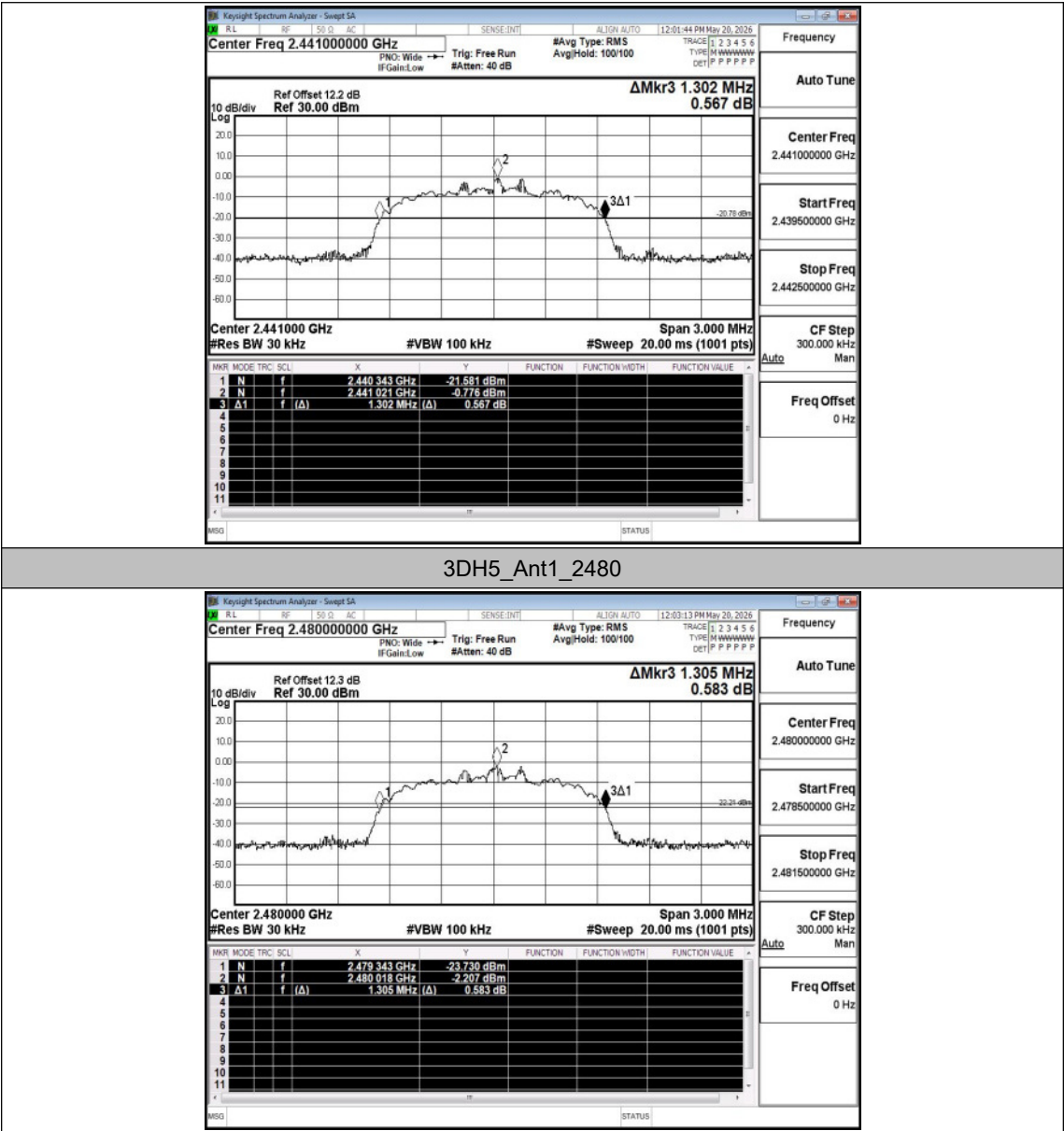
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

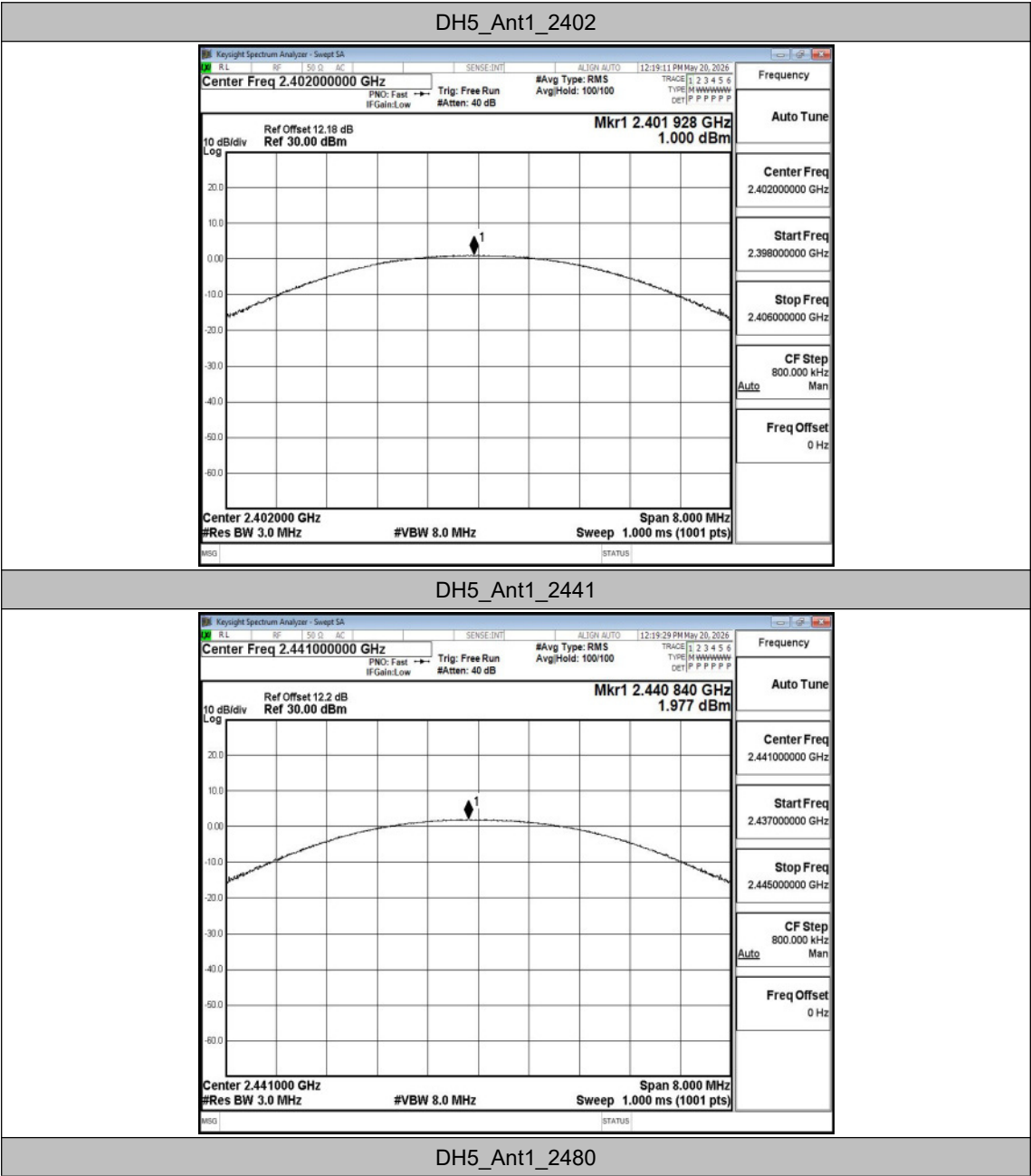


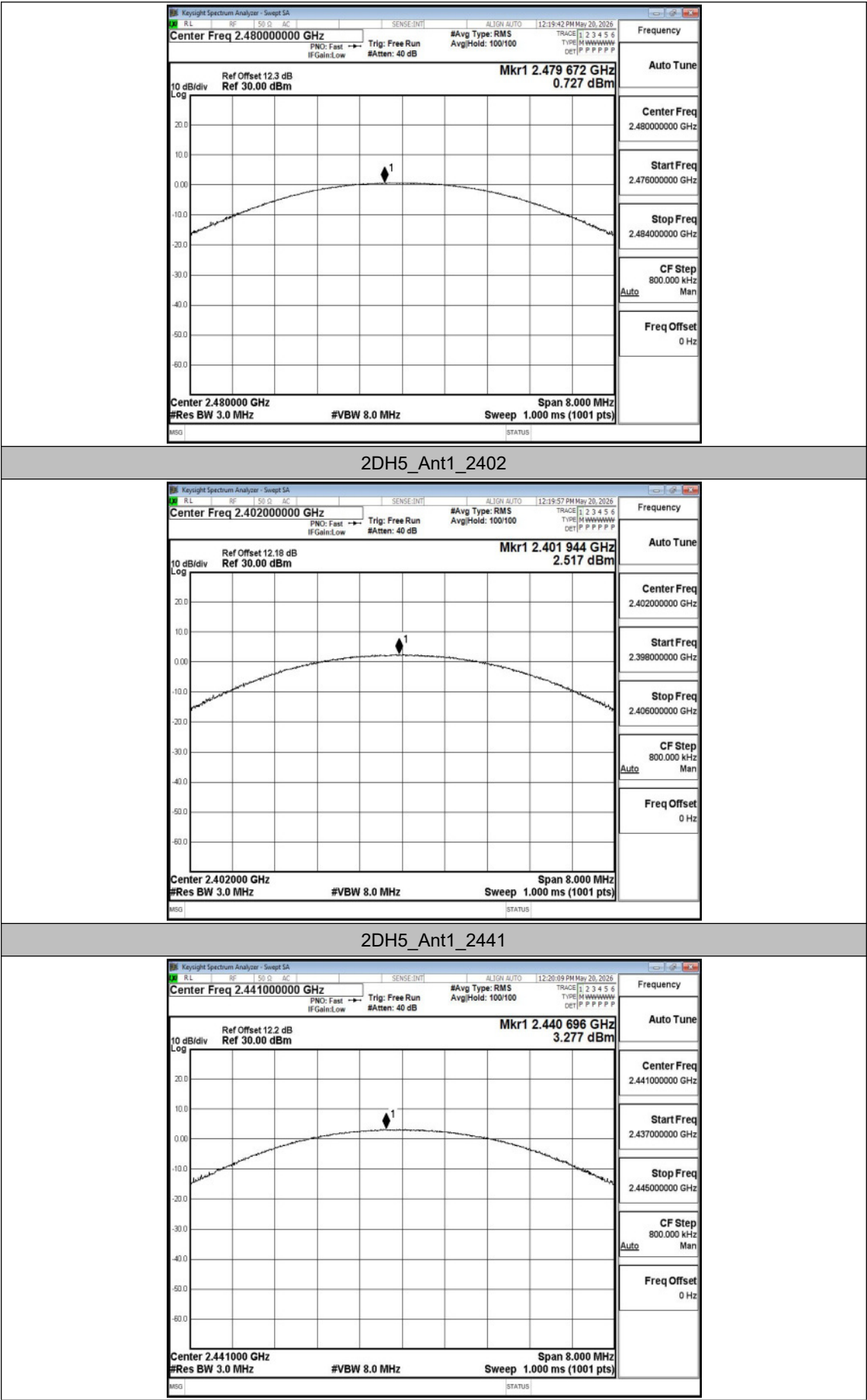
A.2 Maximum Peak conducted output power

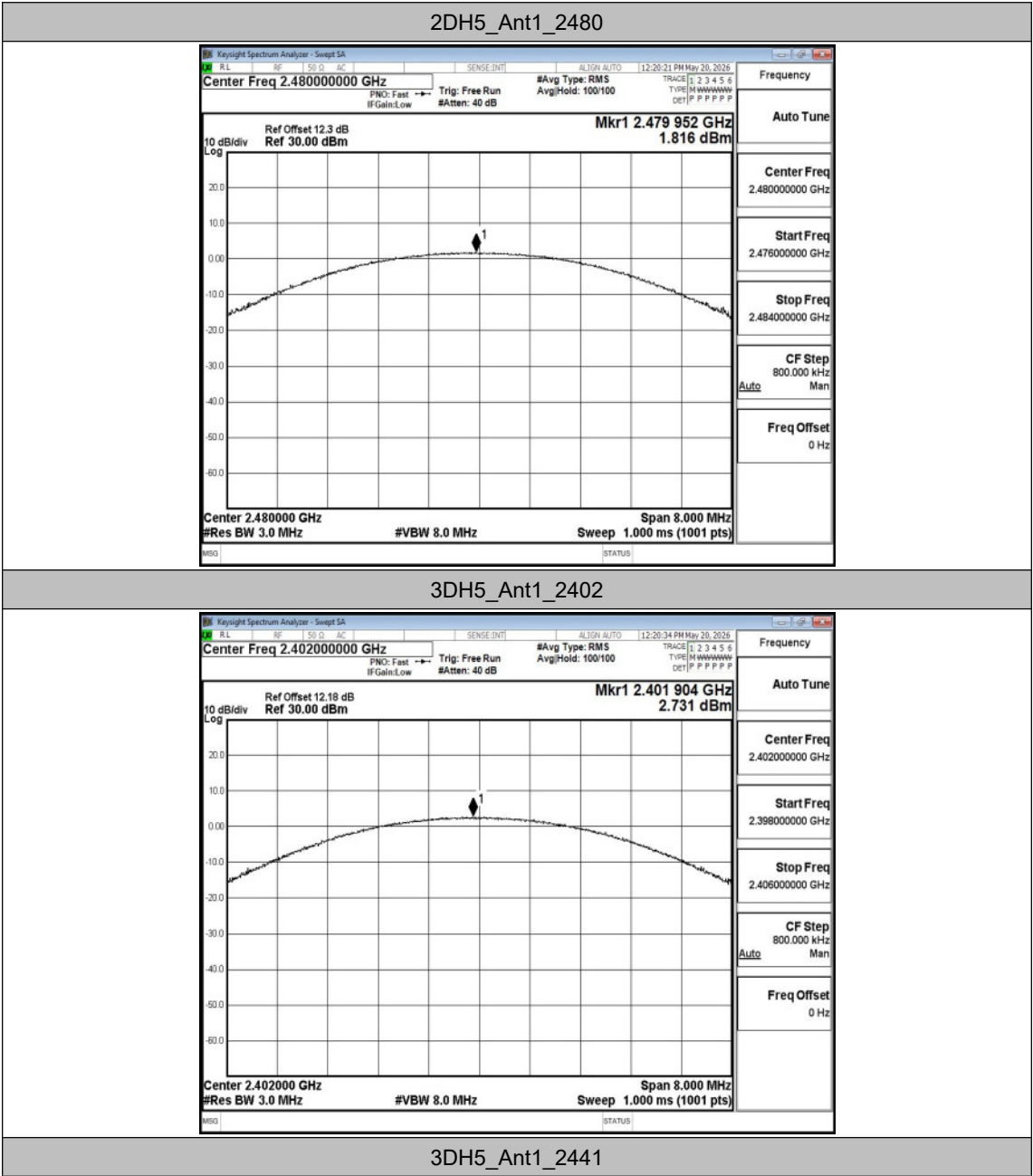
Test Result Peak

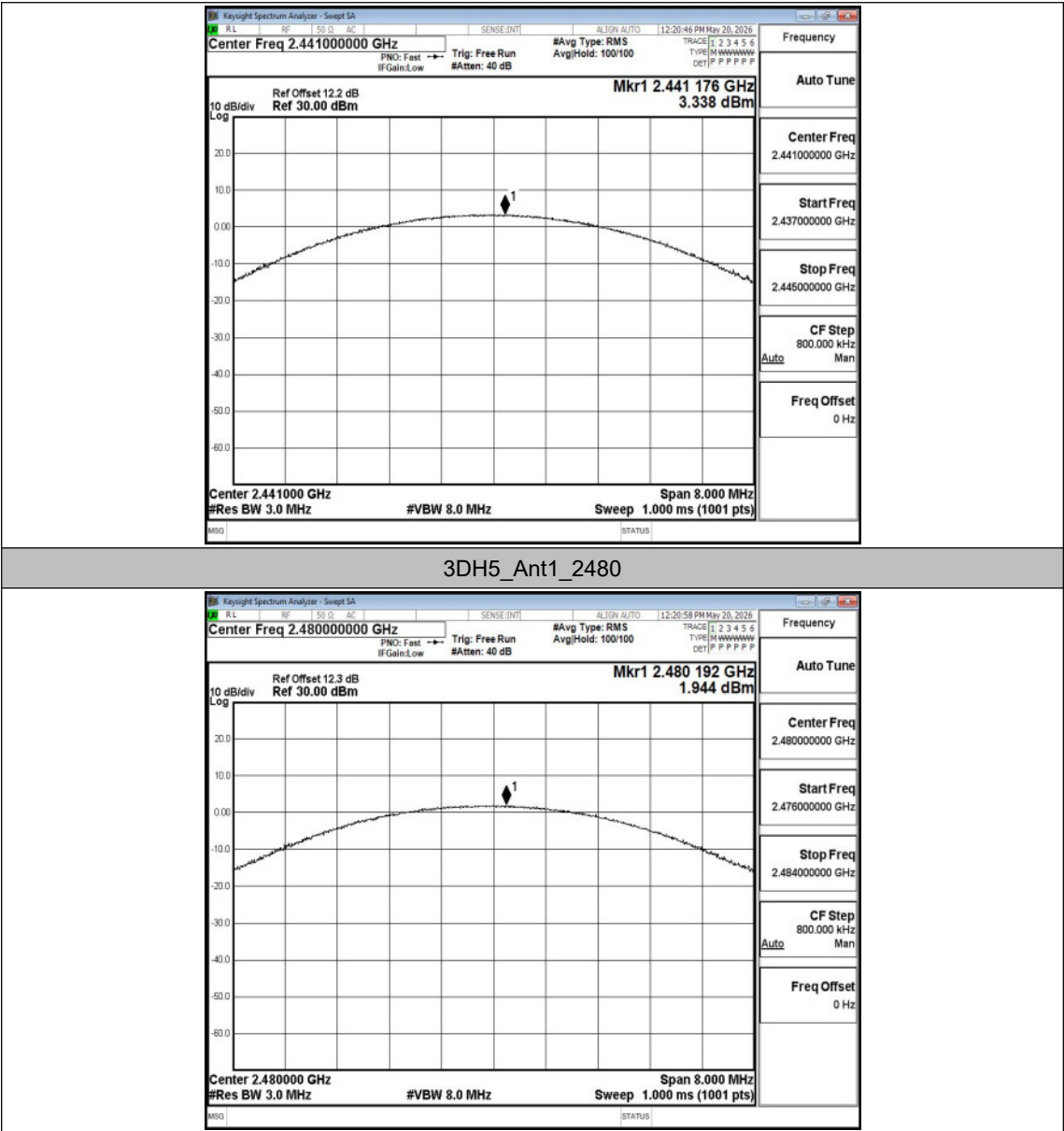
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.00	≤30	PASS
		2441	1.98	≤30	PASS
		2480	0.73	≤30	PASS
2DH5	Ant1	2402	2.52	≤30	PASS
		2441	3.28	≤30	PASS
		2480	1.82	≤30	PASS
3DH5	Ant1	2402	2.73	≤30	PASS
		2441	3.34	≤30	PASS
		2480	1.94	≤30	PASS

Test Graphs







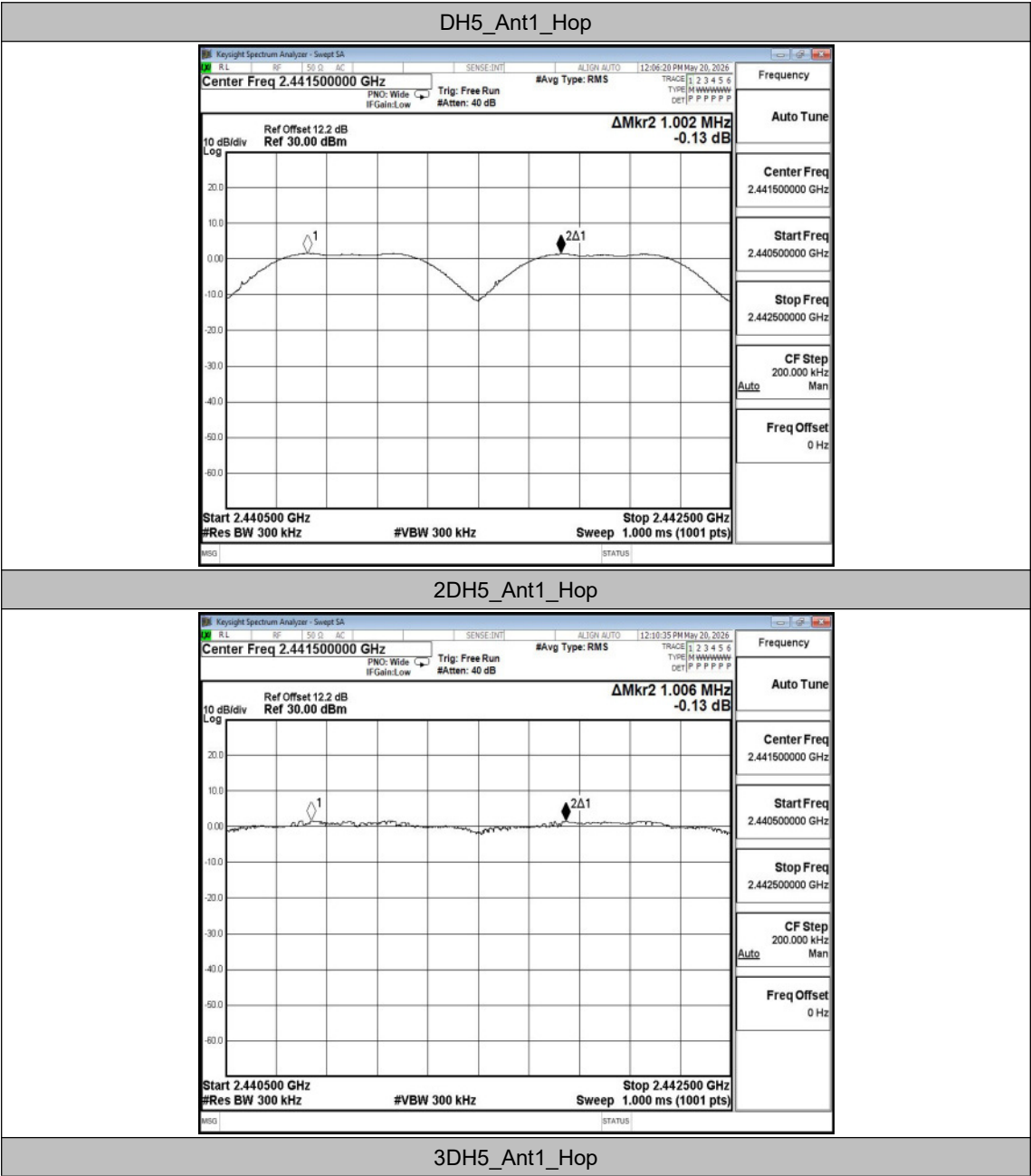


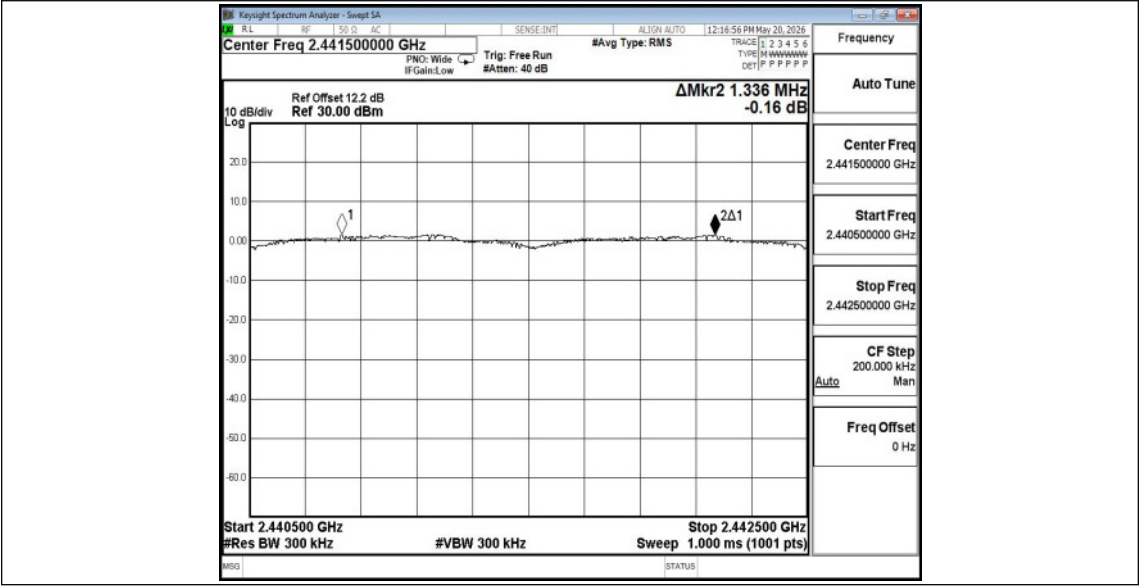
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.002	≥0.642	PASS
2DH5	Ant1	Hop	1.006	≥0.858	PASS
3DH5	Ant1	Hop	1.336	≥0.870	PASS

Test Graphs



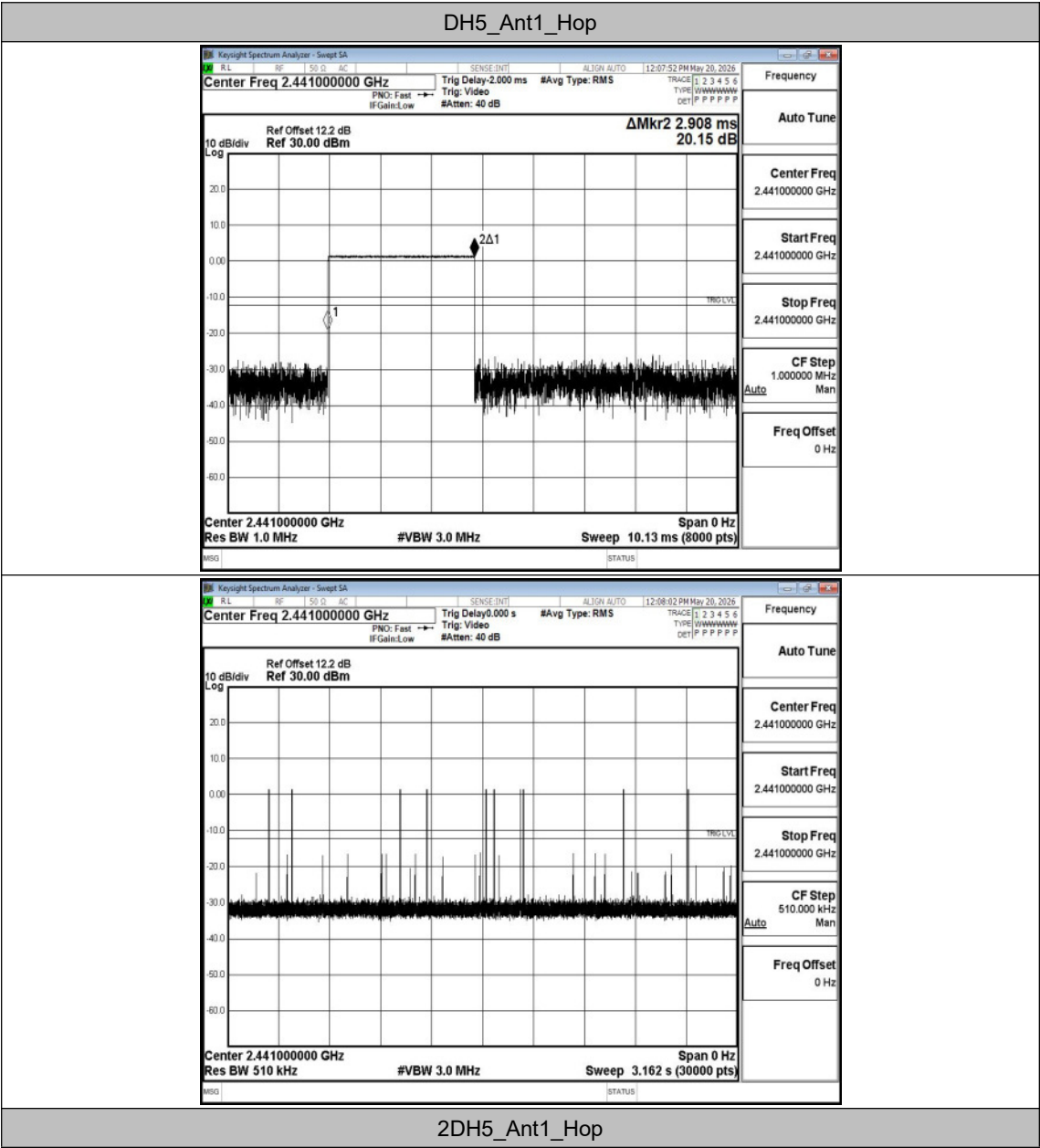


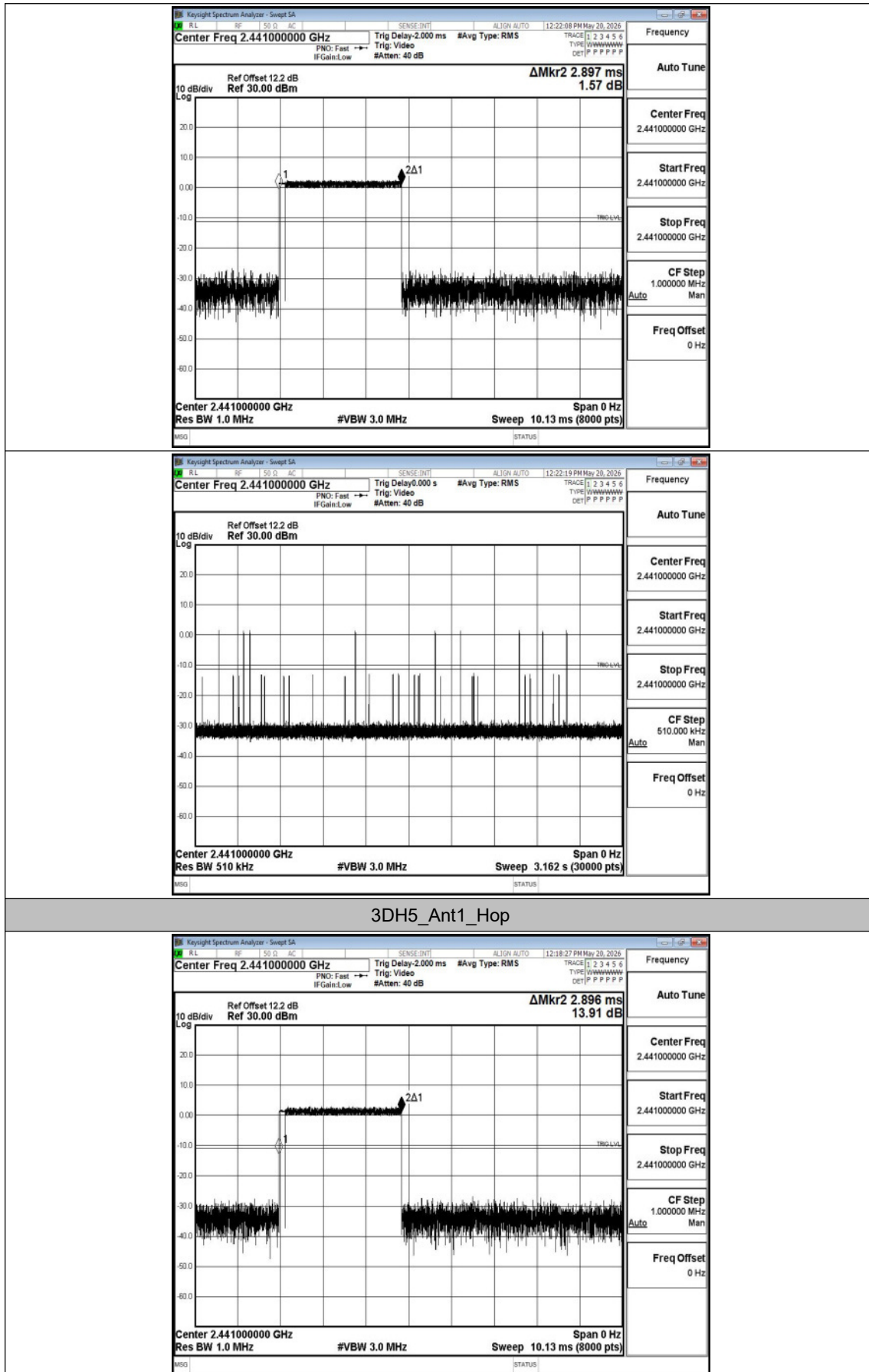
A.4 Time of occupancy

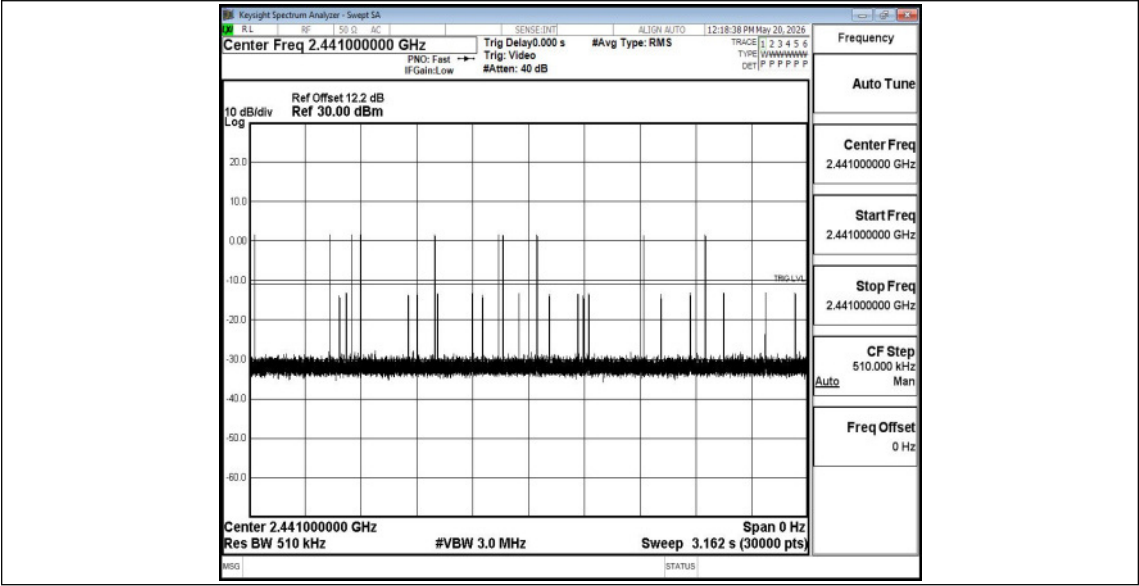
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.897	100	0.29	≤0.4	PASS
3DH5	Ant1	Hop	2.896	110	0.319	≤0.4	PASS

Test Graphs





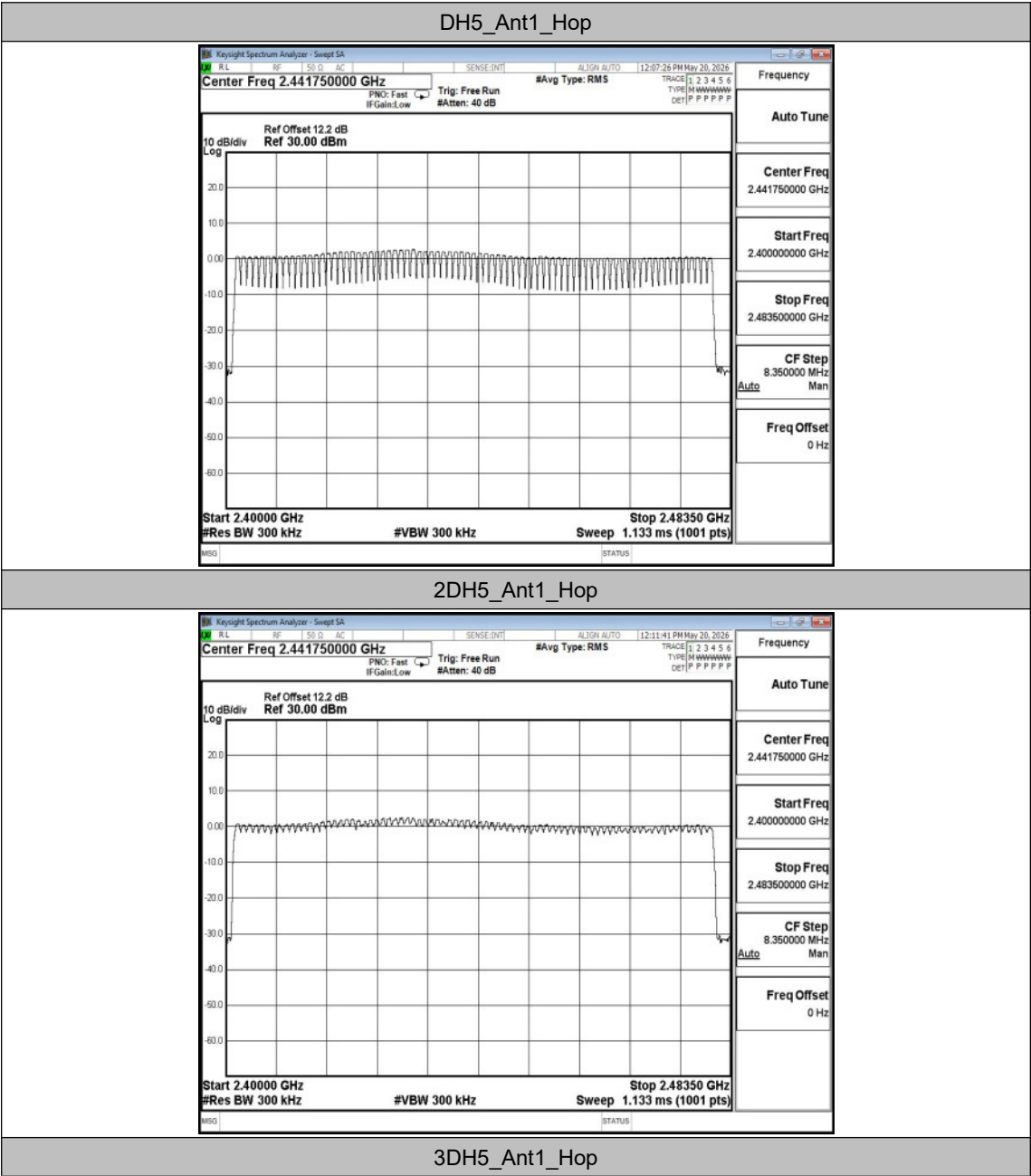


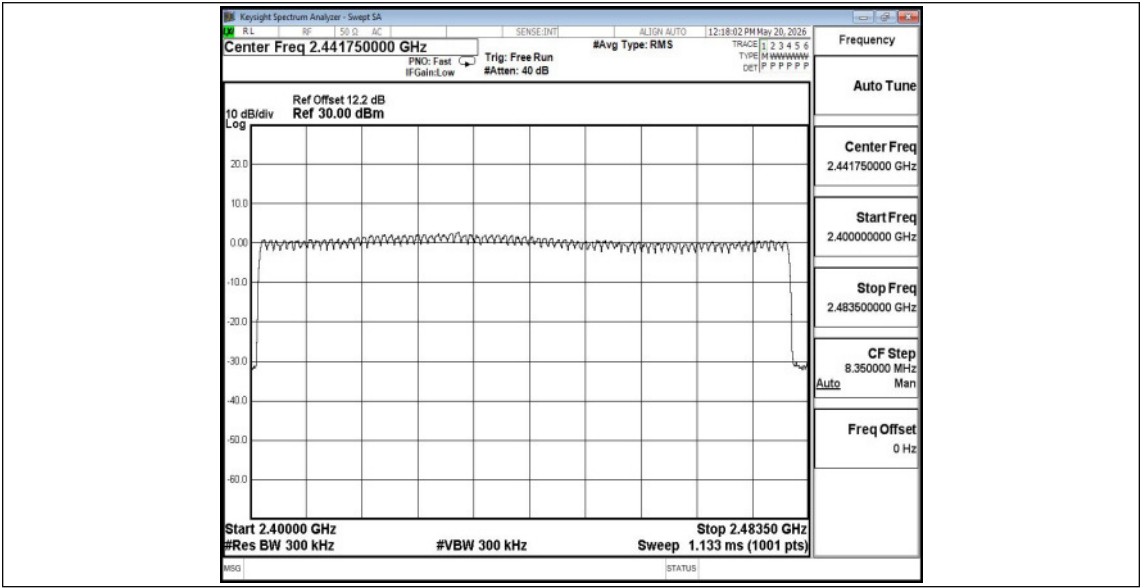
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



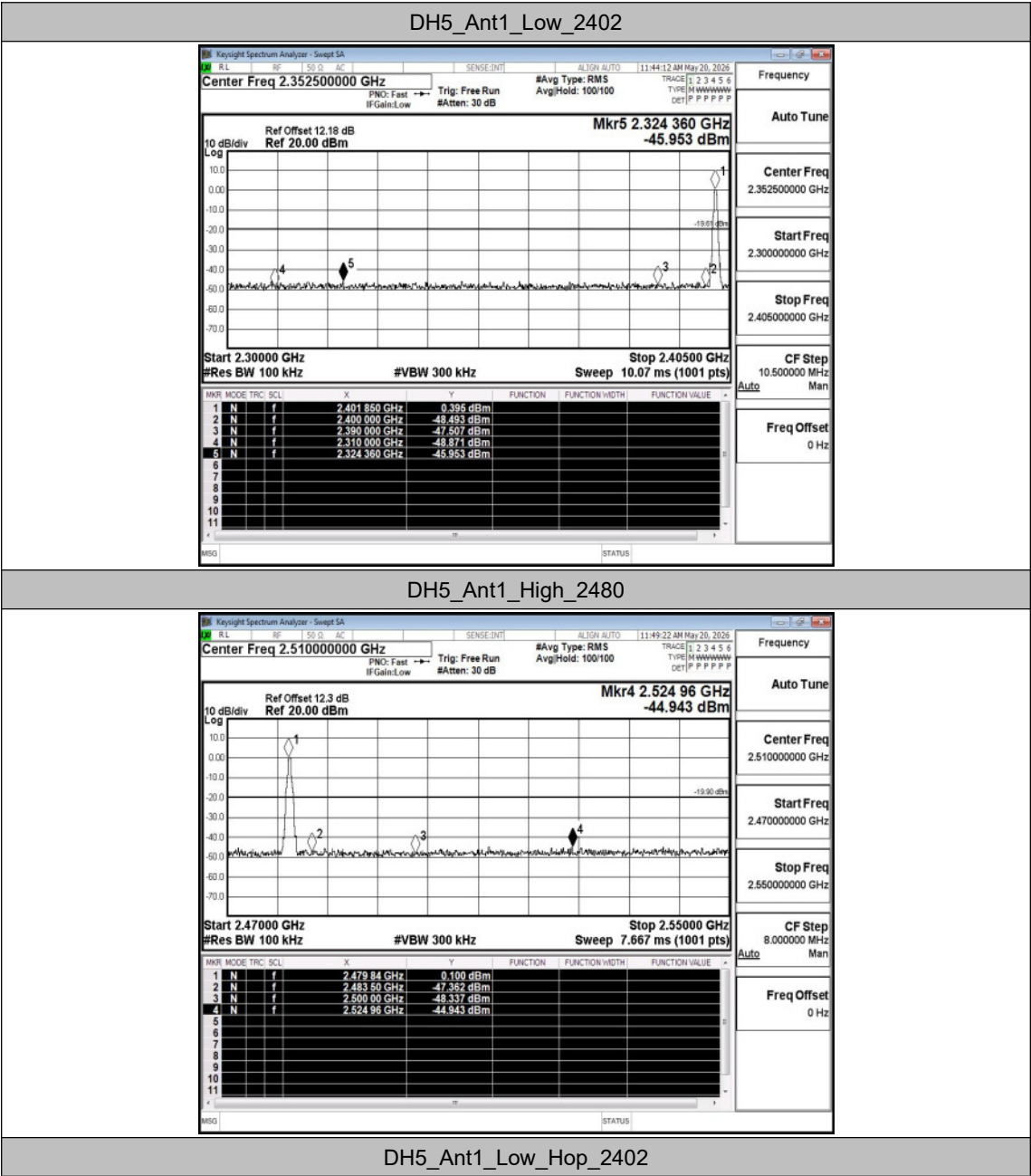


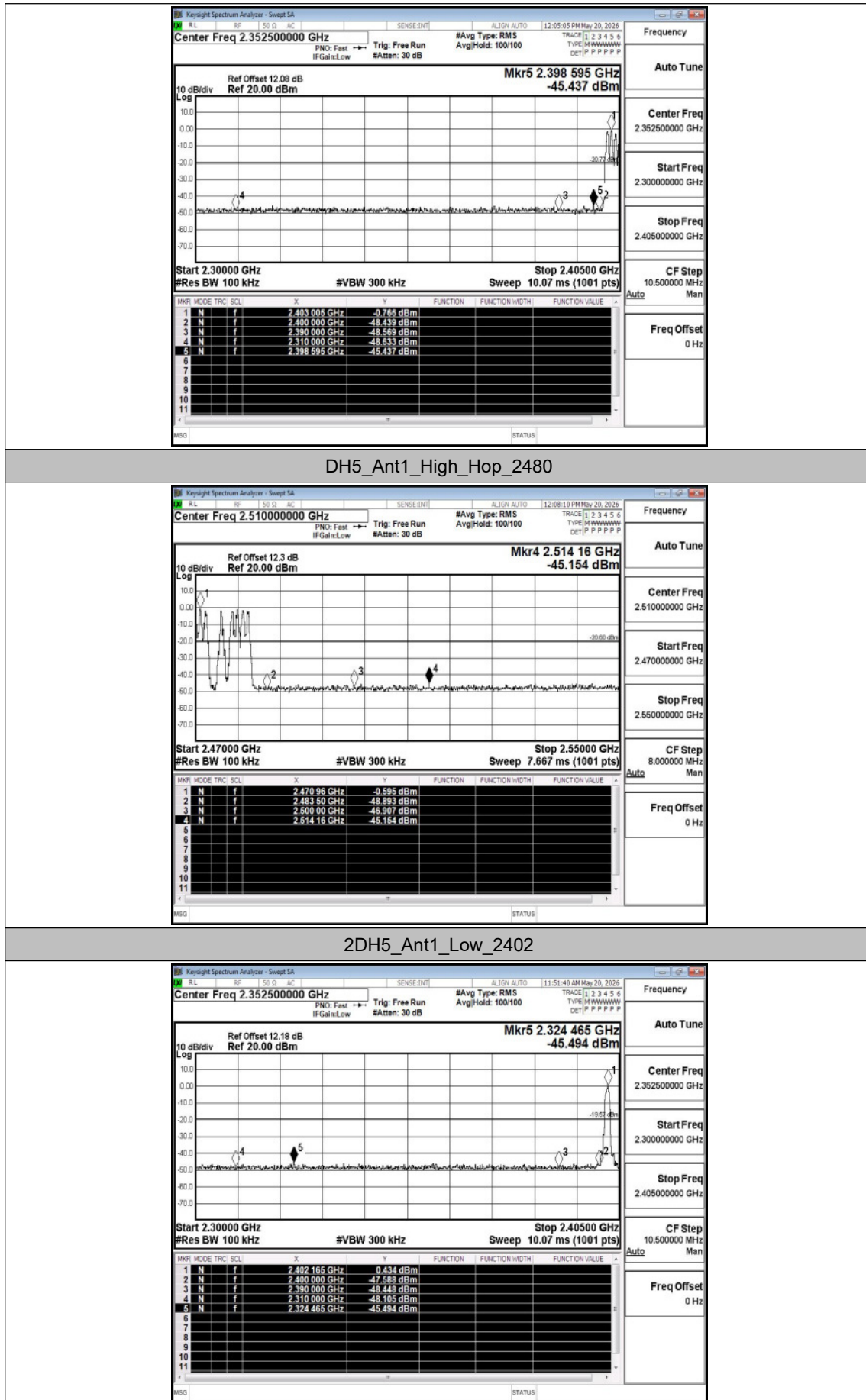
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.40	-45.95	≤ -19.61	PASS
		High	2480	0.10	-44.94	≤ -19.9	PASS
		Low	Hop_2402	-0.77	-45.44	≤ -20.77	PASS
		High	Hop_2480	-0.60	-45.15	≤ -20.6	PASS
2DH5	Ant1	Low	2402	0.43	-45.49	≤ -19.57	PASS
		High	2480	-1.73	-44.77	≤ -21.73	PASS
		Low	Hop_2402	-3.87	-44.64	≤ -23.87	PASS
		High	Hop_2480	-0.24	-45.54	≤ -20.24	PASS
3DH5	Ant1	Low	2402	-0.83	-45.76	≤ -20.83	PASS
		High	2480	0.23	-44.37	≤ -19.77	PASS
		Low	Hop_2402	-2.99	-44.97	≤ -22.99	PASS
		High	Hop_2480	-1.69	-45.04	≤ -21.69	PASS

Test Graphs



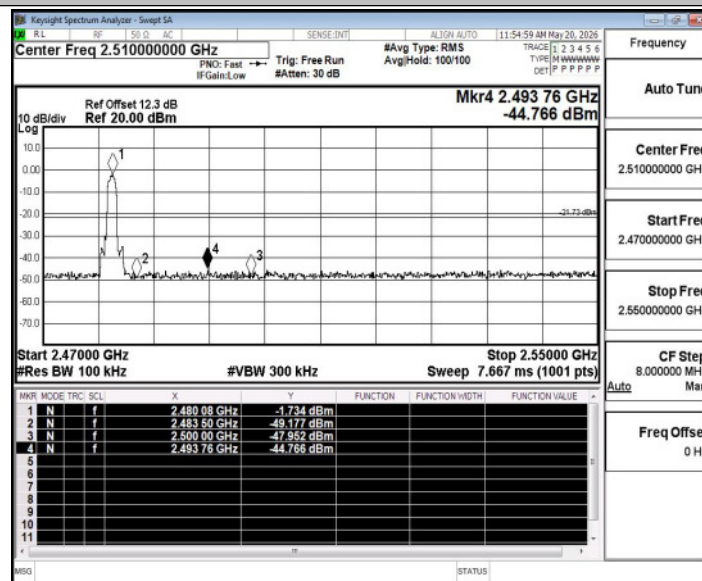


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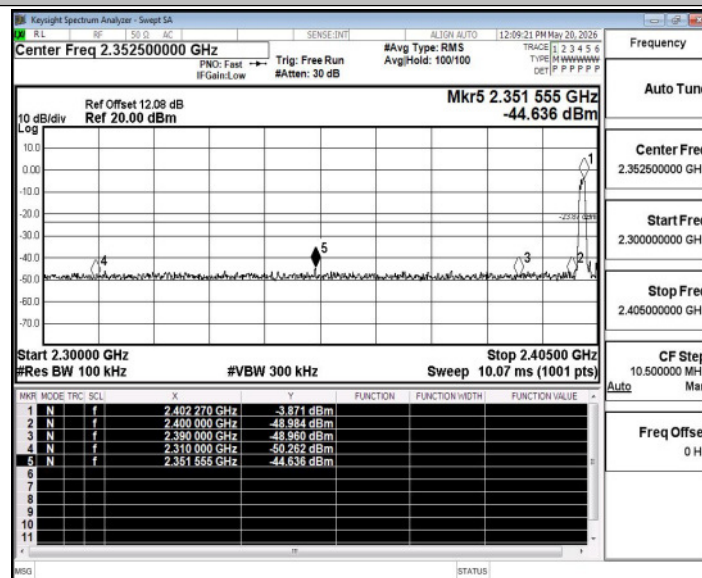
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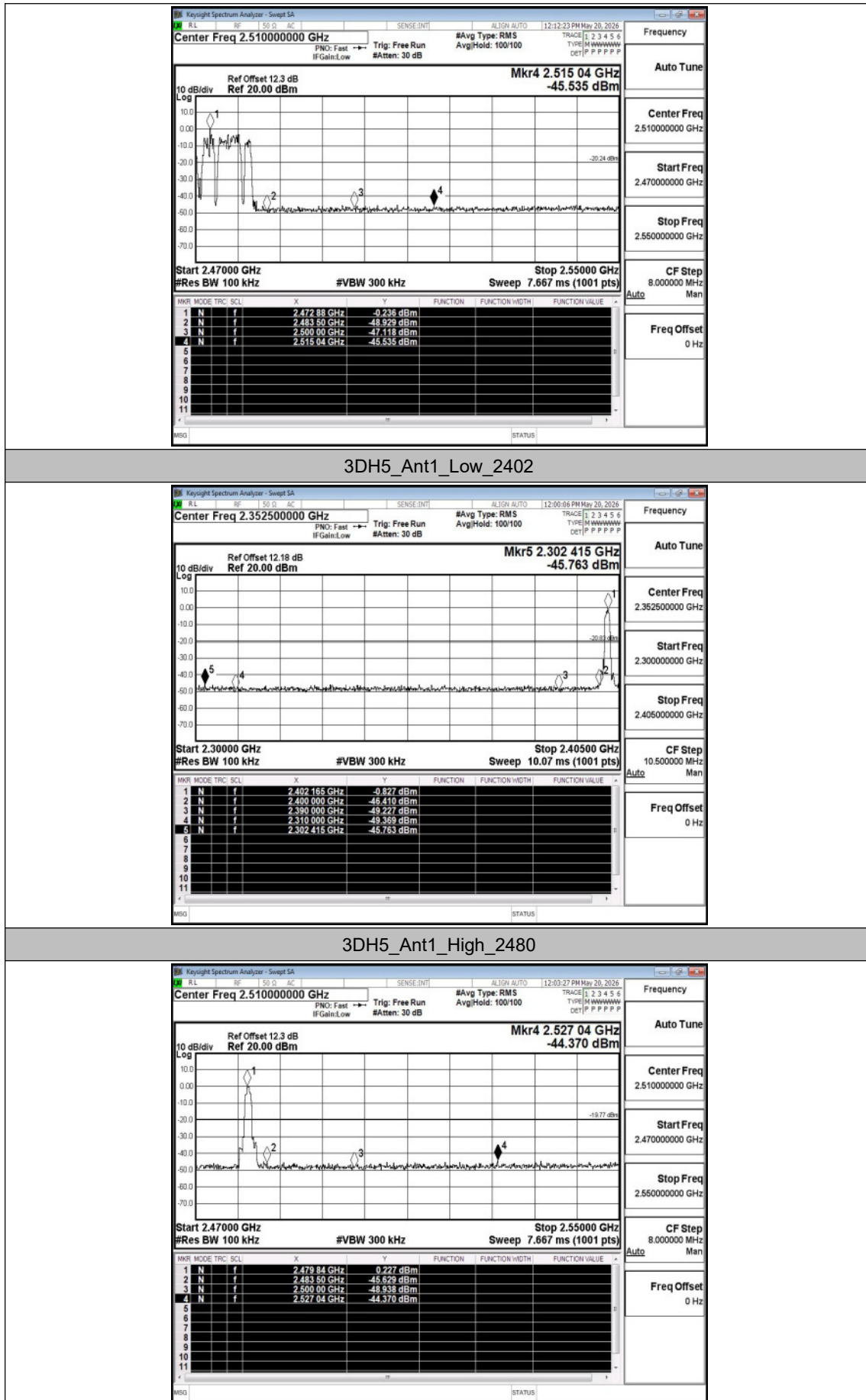
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



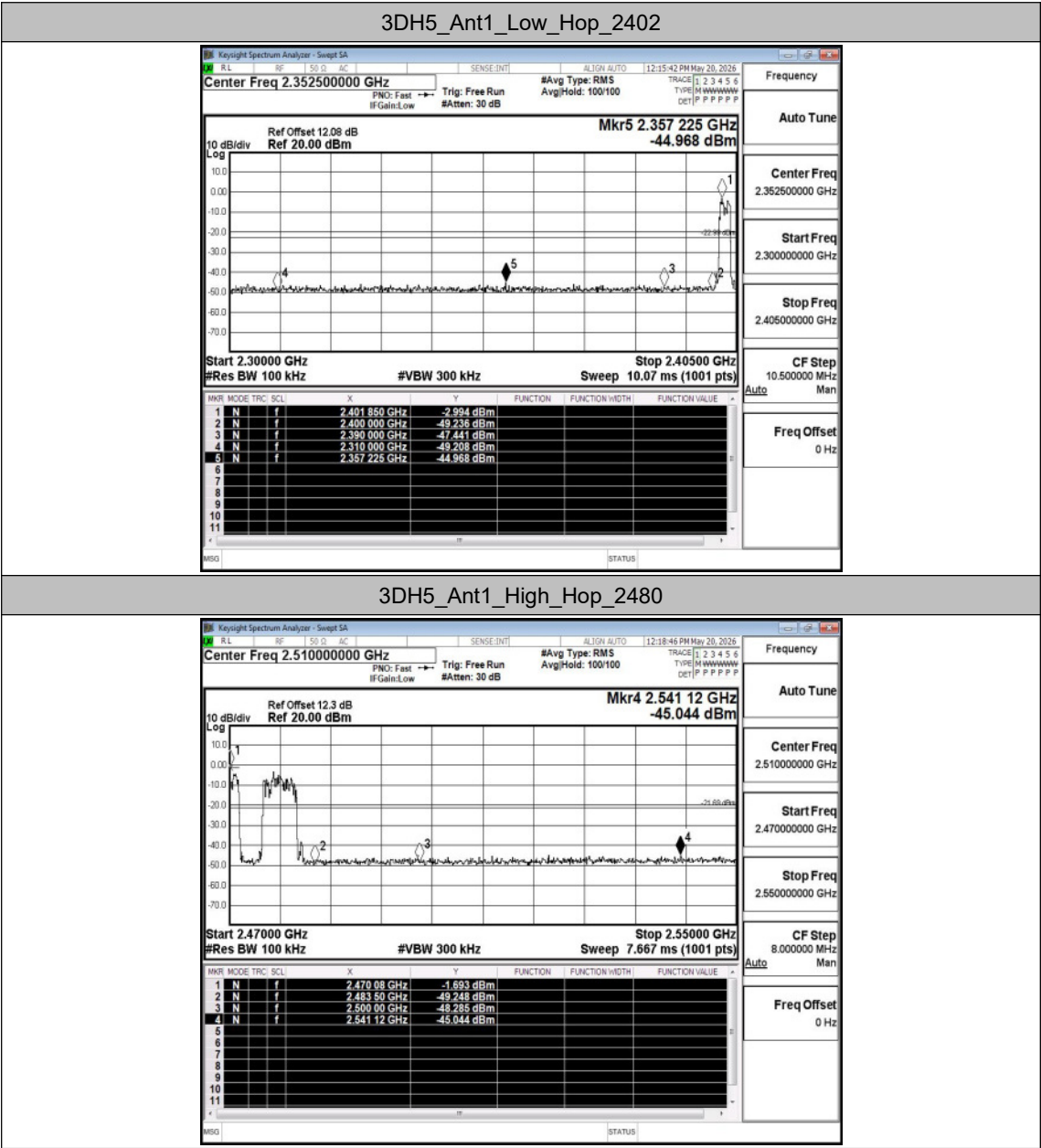
2DH5_Ant1_High_Hop_2480



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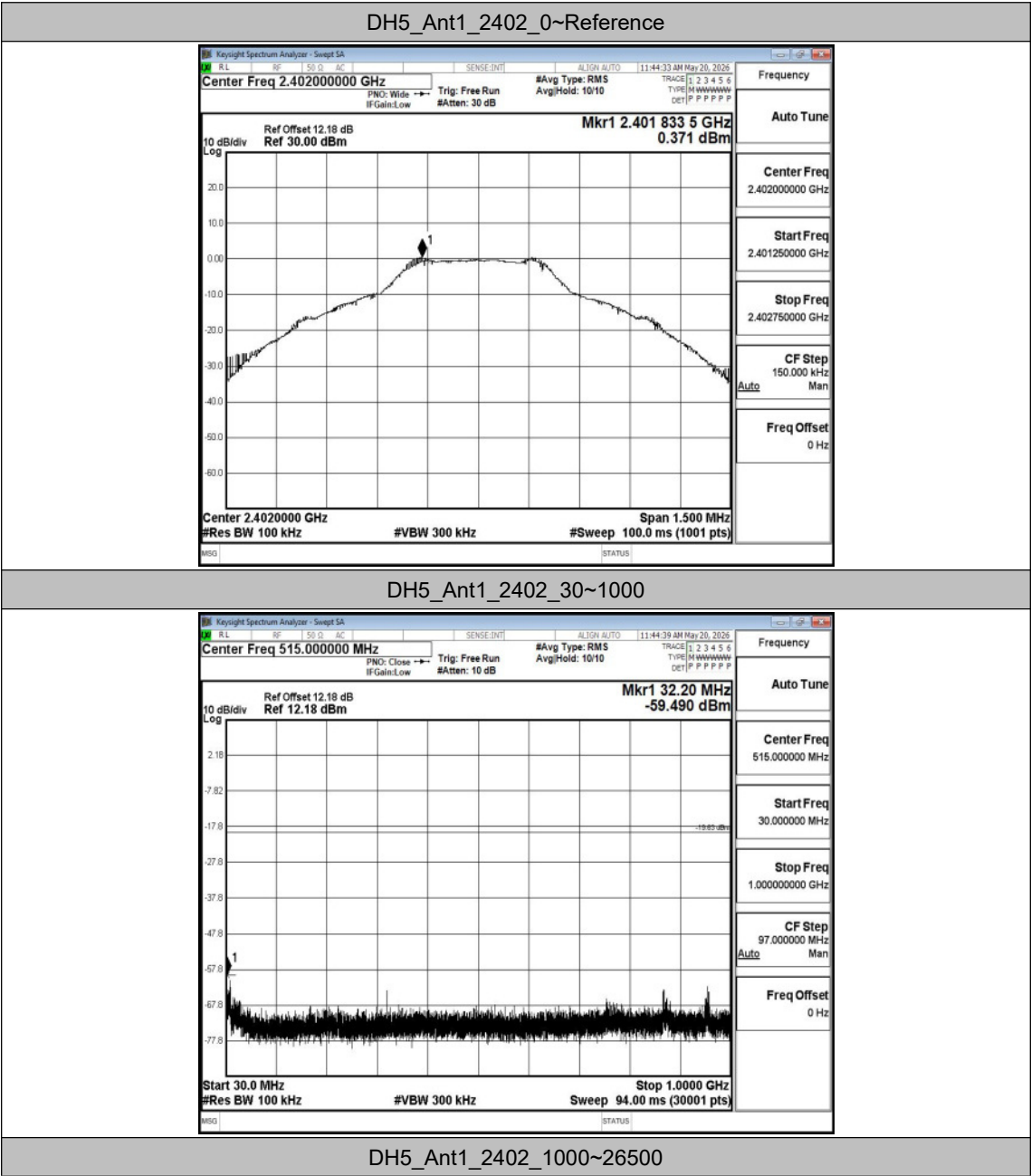


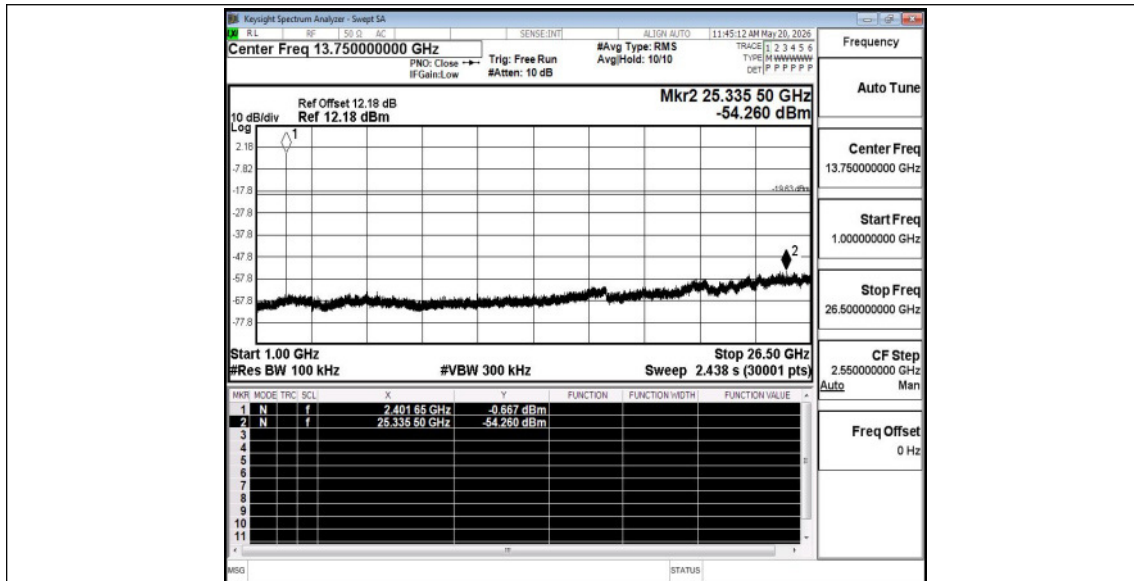
A.7 Conducted Spurious Emission

Test Result

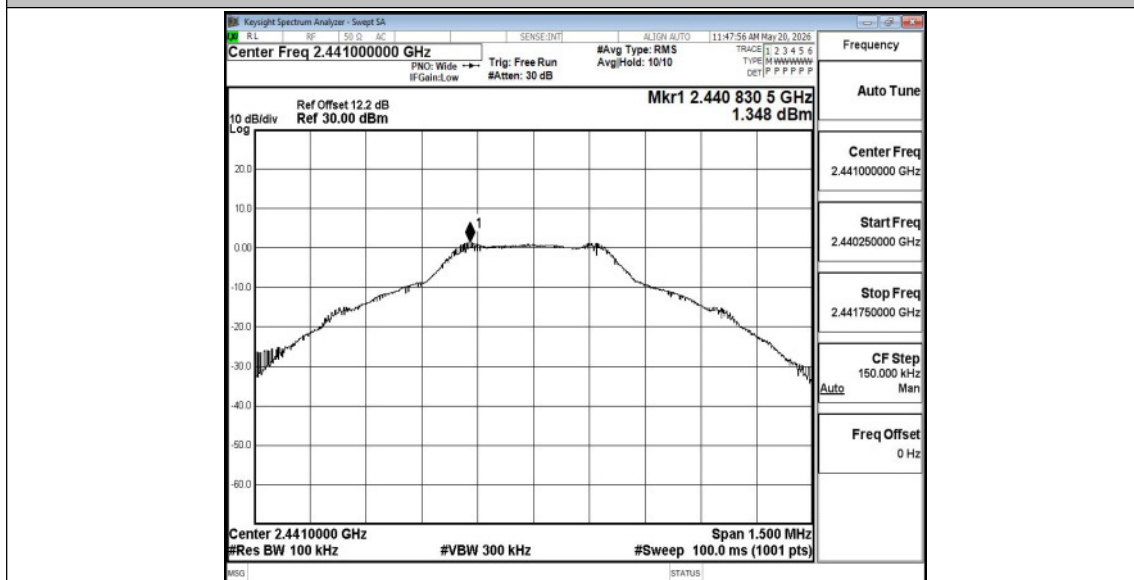
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.37	0.37	---	PASS
			30~1000	0.37	-59.49	≤-19.63	PASS
			1000~26500	0.37	-54.26	≤-19.63	PASS
		2441	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-59.54	≤-18.65	PASS
			1000~26500	1.35	-54.58	≤-18.65	PASS
		2480	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-59.13	≤-19.86	PASS
			1000~26500	0.14	-54.52	≤-19.86	PASS
2DH5	Ant1	2402	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-58.13	≤-19.73	PASS
			1000~26500	0.27	-54.82	≤-19.73	PASS
		2441	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-60.5	≤-18.77	PASS
			1000~26500	1.23	-54.12	≤-18.77	PASS
		2480	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-58.77	≤-20.02	PASS
			1000~26500	-0.02	-54.89	≤-20.02	PASS
3DH5	Ant1	2402	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-57.32	≤-19.56	PASS
			1000~26500	0.44	-54.77	≤-19.56	PASS
		2441	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-58.09	≤-18.58	PASS
			1000~26500	1.42	-54.85	≤-18.58	PASS
		2480	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-59.52	≤-19.81	PASS
			1000~26500	0.19	-54.71	≤-19.81	PASS

Test Graphs

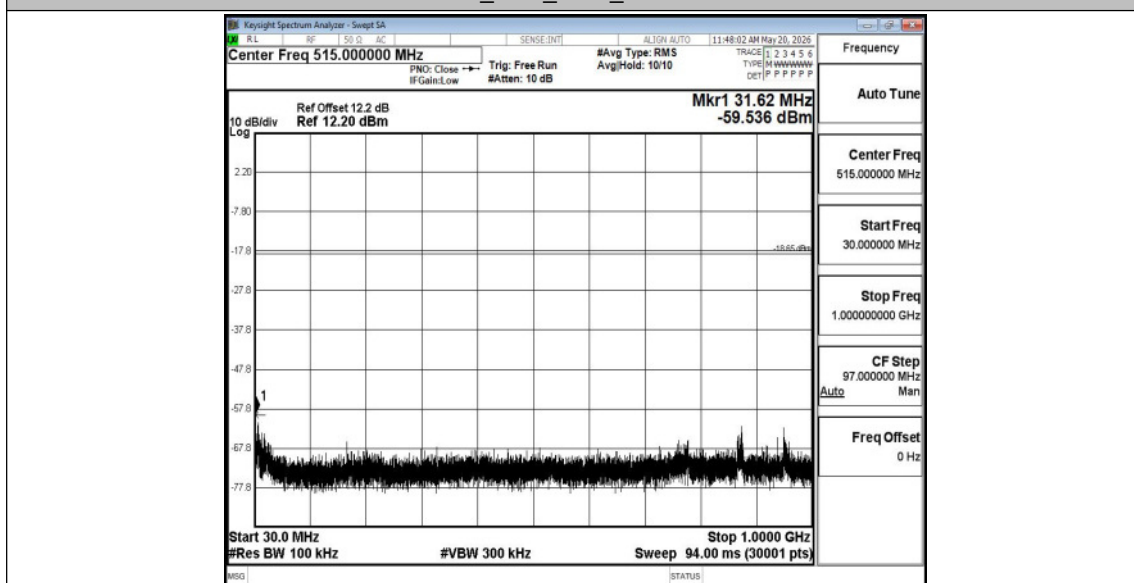


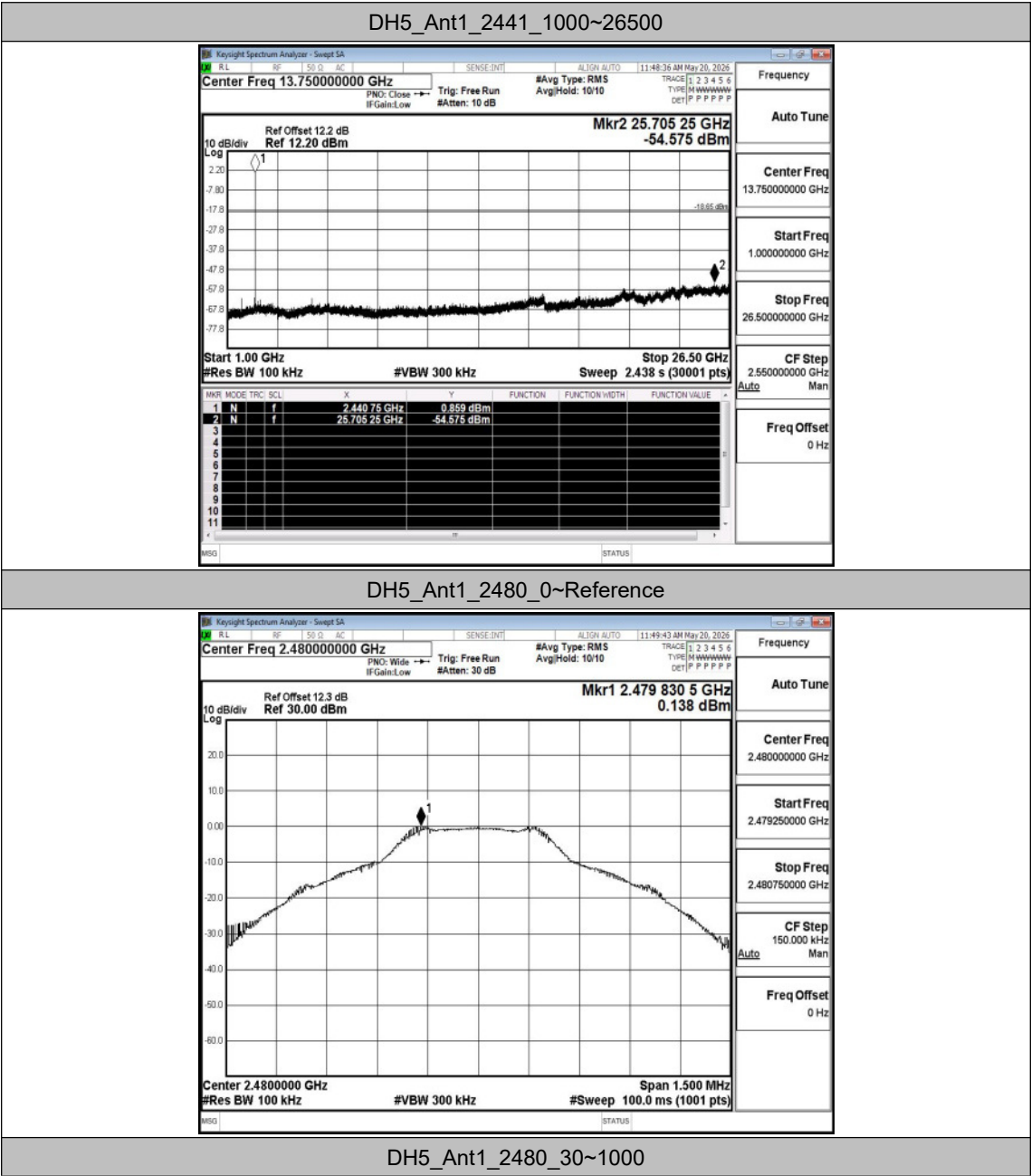


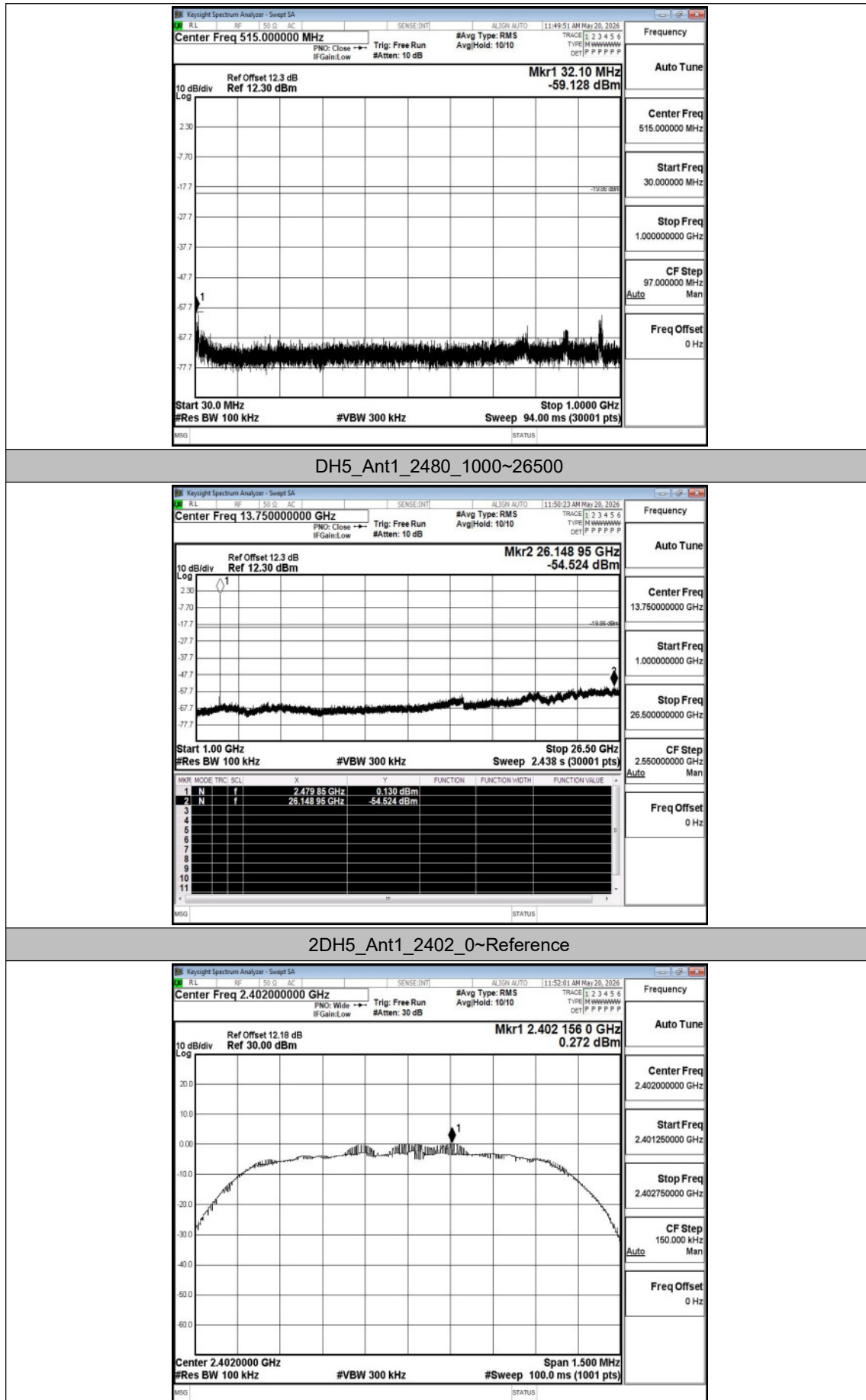
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



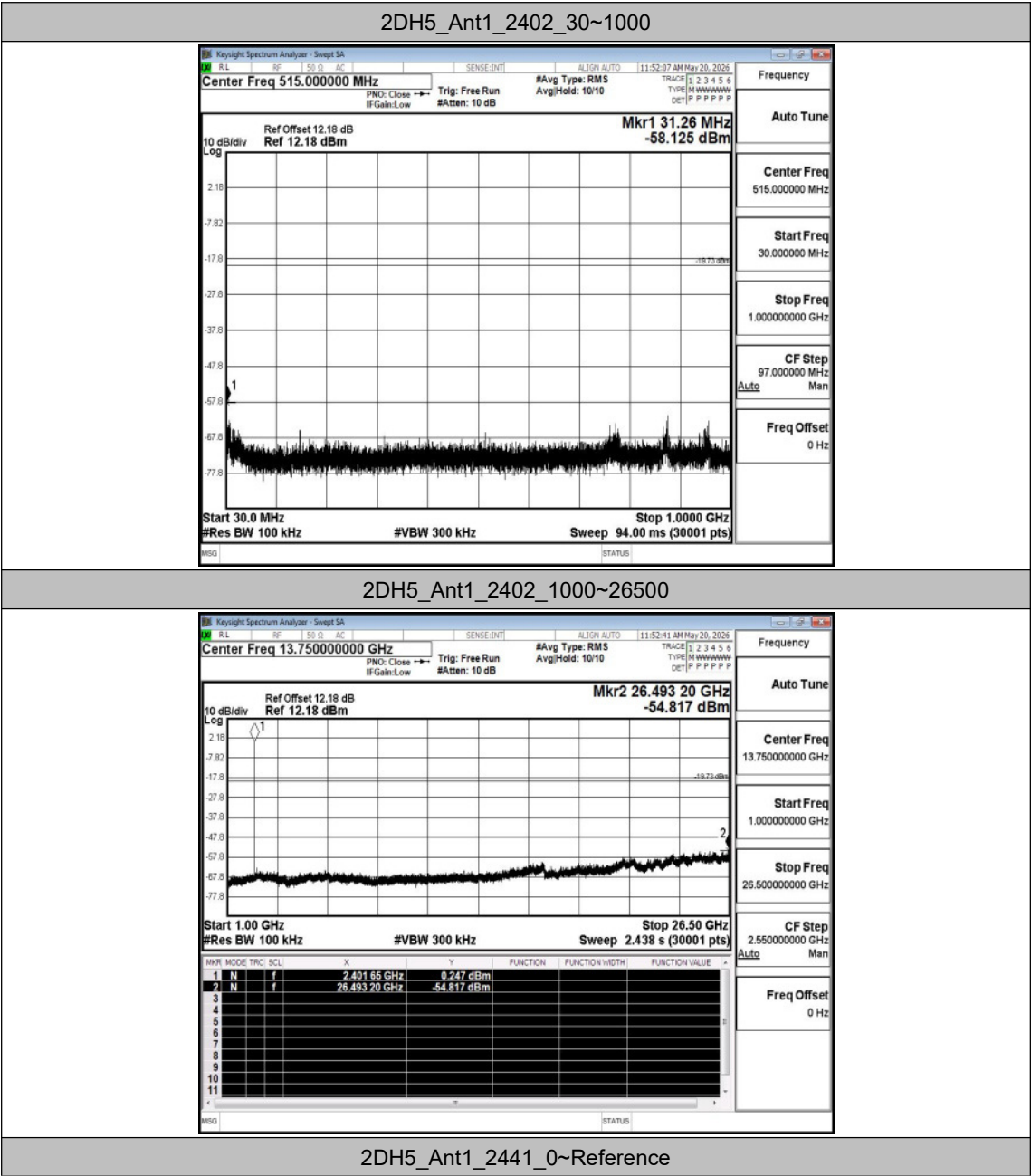


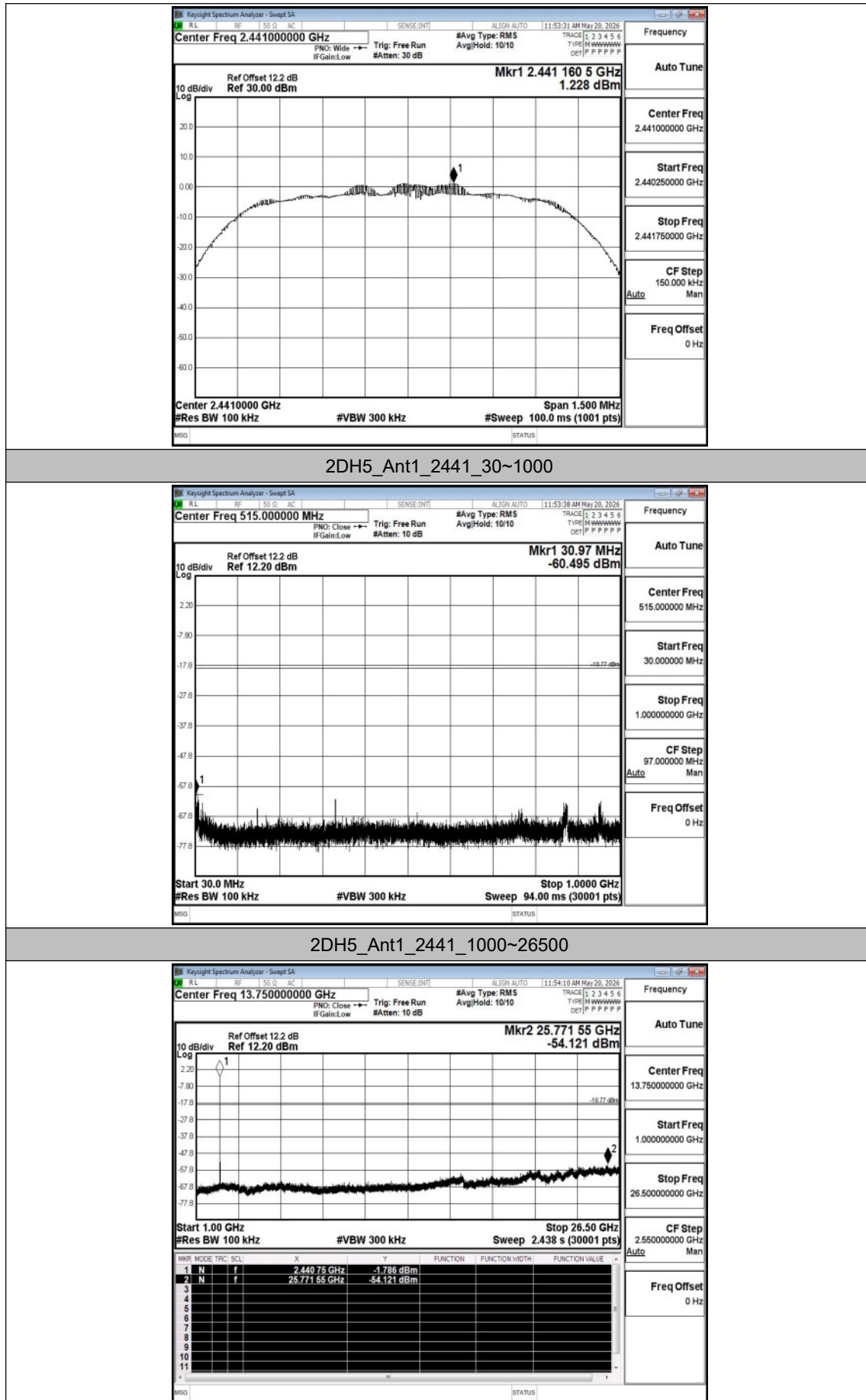


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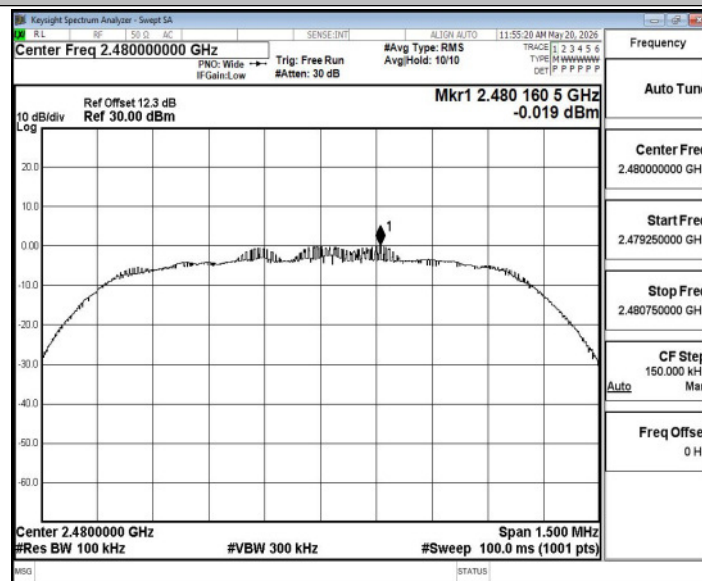


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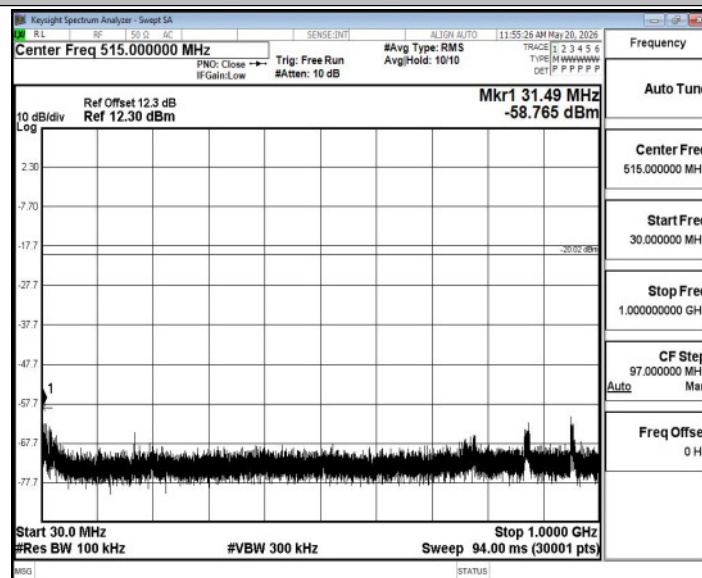
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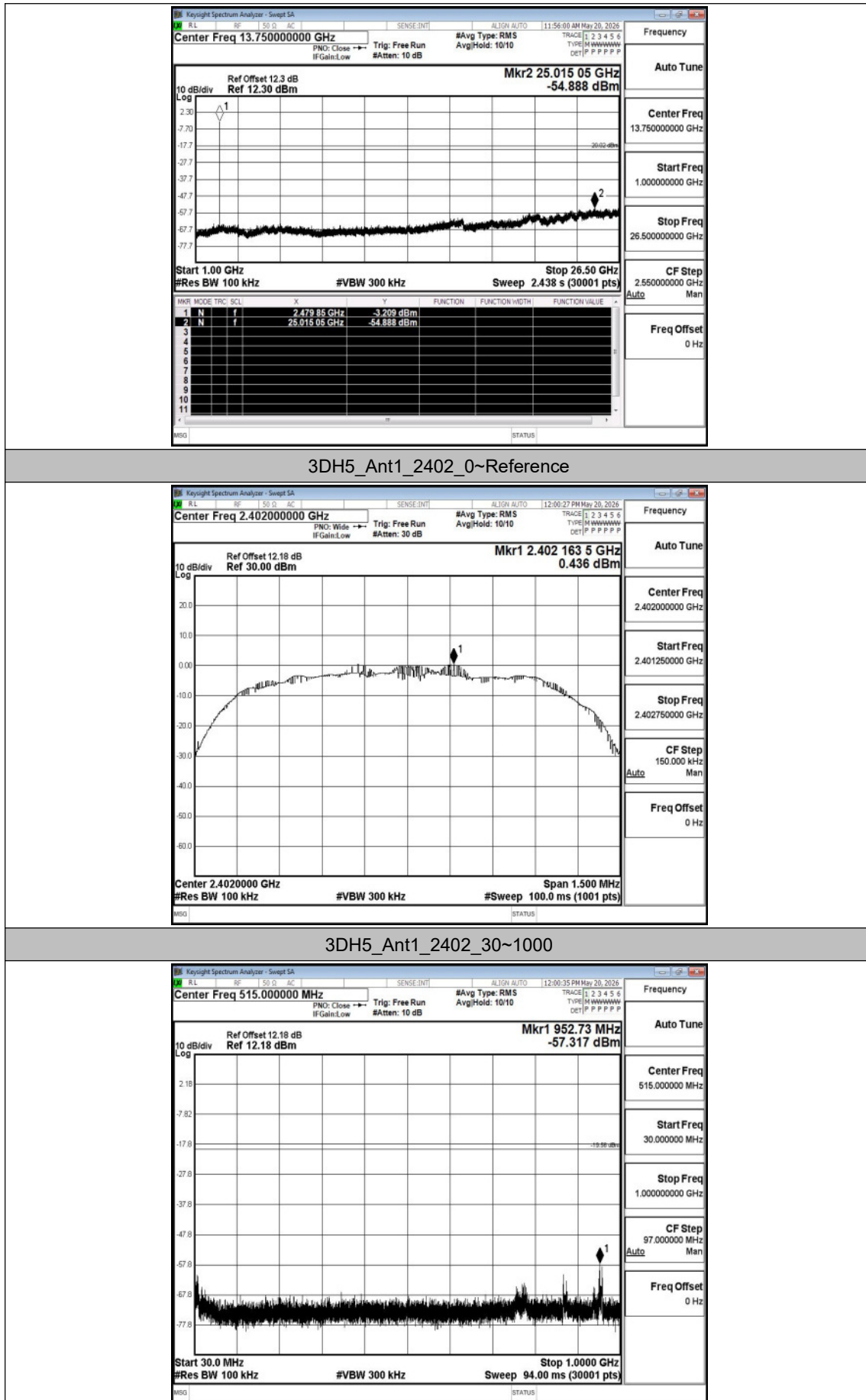
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



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