

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Open Ear Clip-On Earbuds

Test Model: S1000

Environmental Conditions

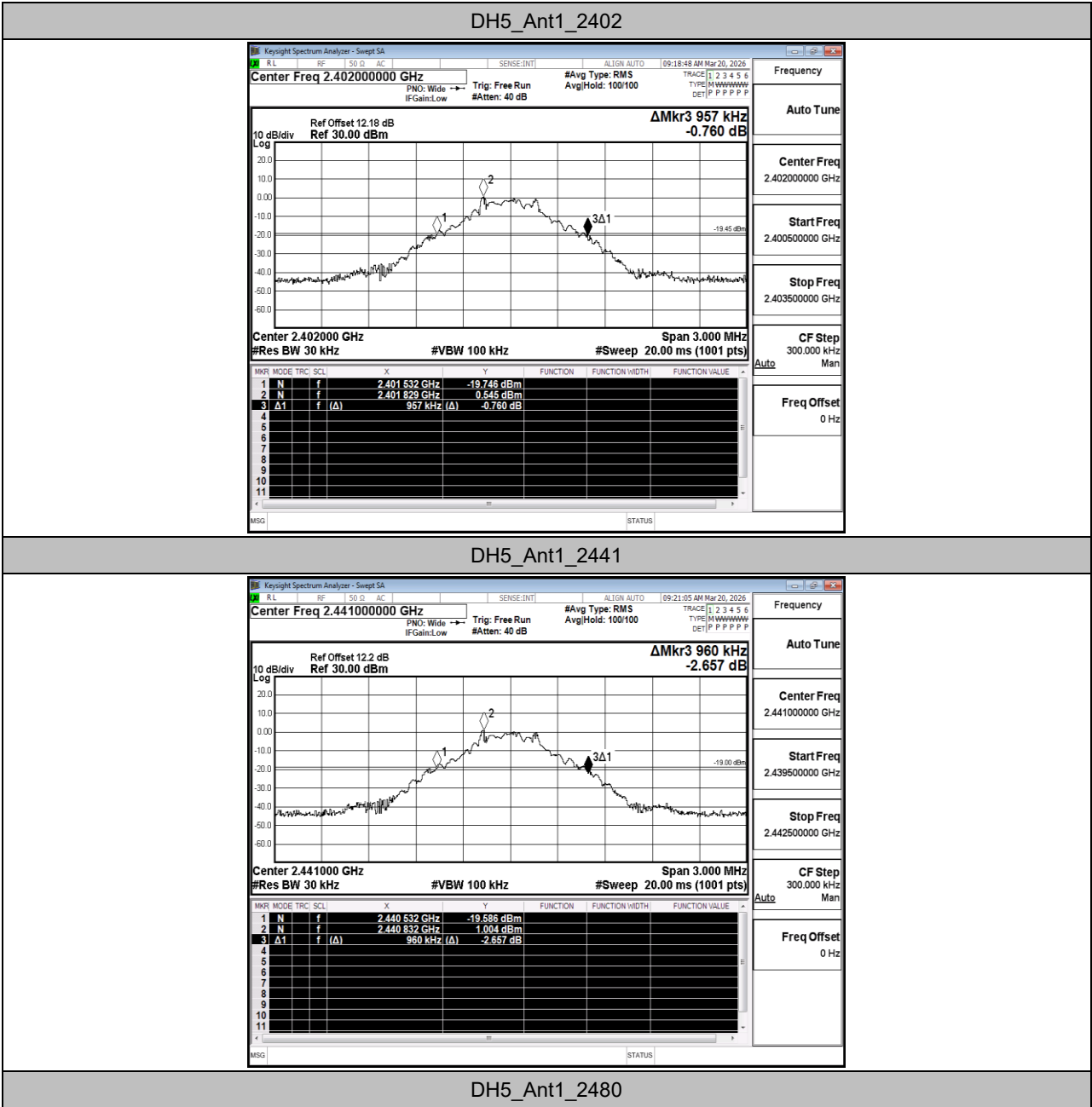
Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao Xing Hai
Supervised by:	Fengliu Tang

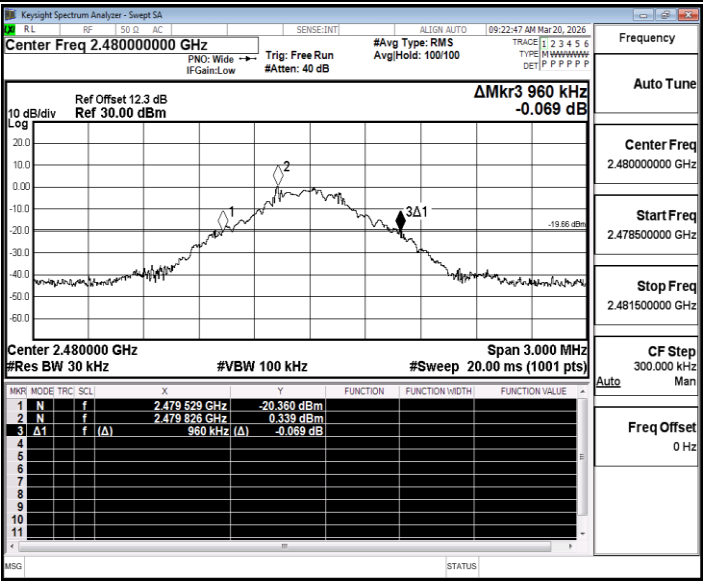
A.1 20dB Emission Bandwidth

Left ear:

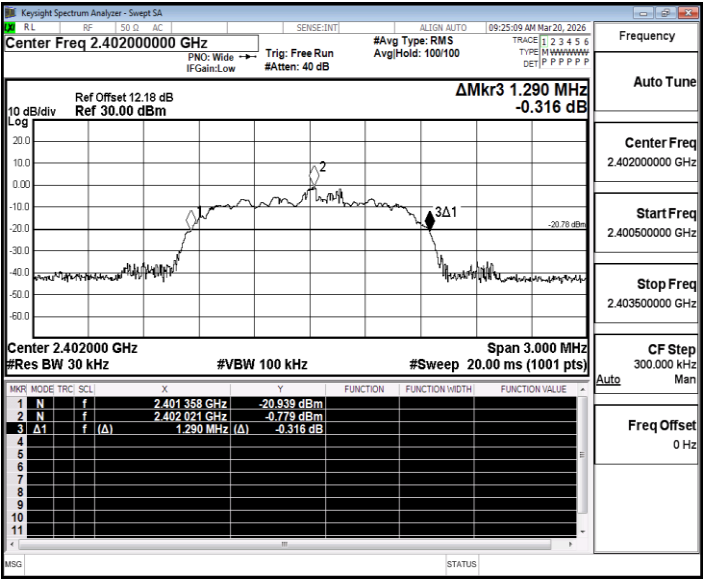
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.957	2401.532	2402.489	---	---
		2441	0.960	2440.532	2441.492	---	---
		2480	0.960	2479.529	2480.489	---	---
2DH5	Ant1	2402	1.290	2401.358	2402.648	---	---
		2441	1.290	2440.355	2441.645	---	---
		2480	1.296	2479.349	2480.645	---	---
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	---
		2441	1.293	2440.343	2441.636	---	---
		2480	1.296	2479.343	2480.639	---	---

Test Graphs

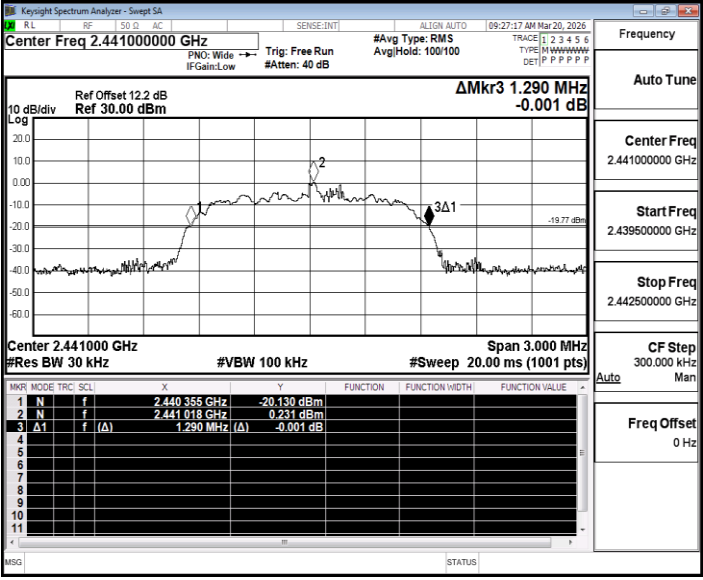




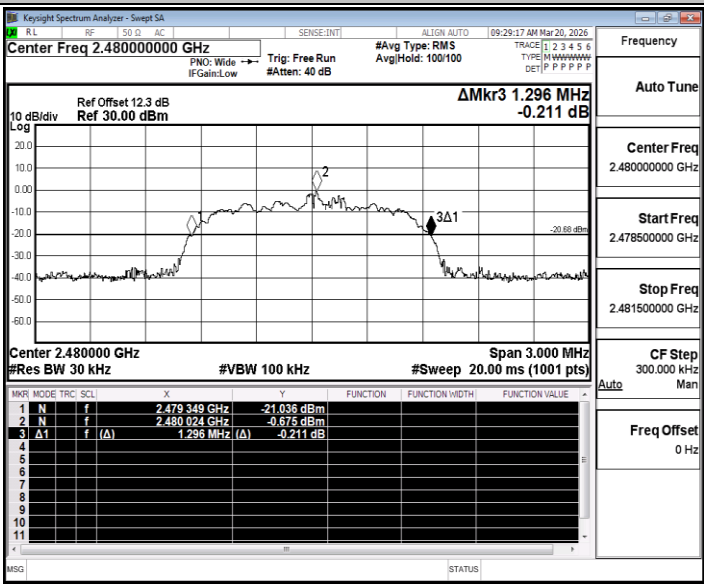
2DH5_Ant1_2402



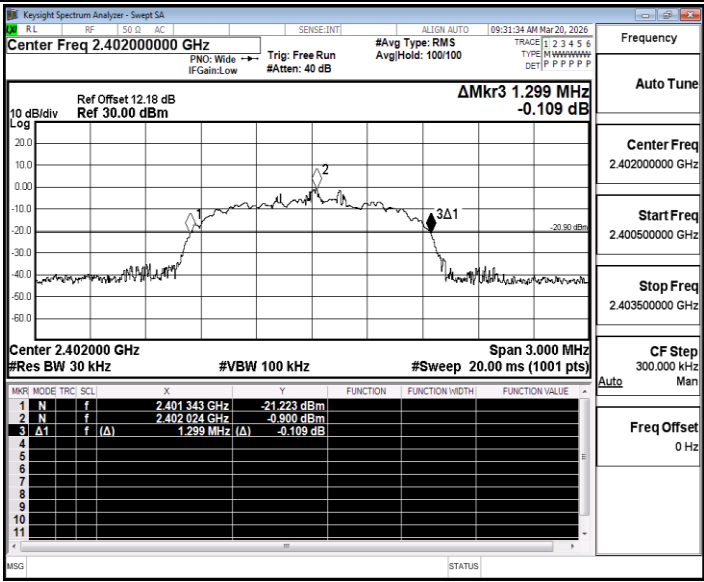
2DH5_Ant1_2441



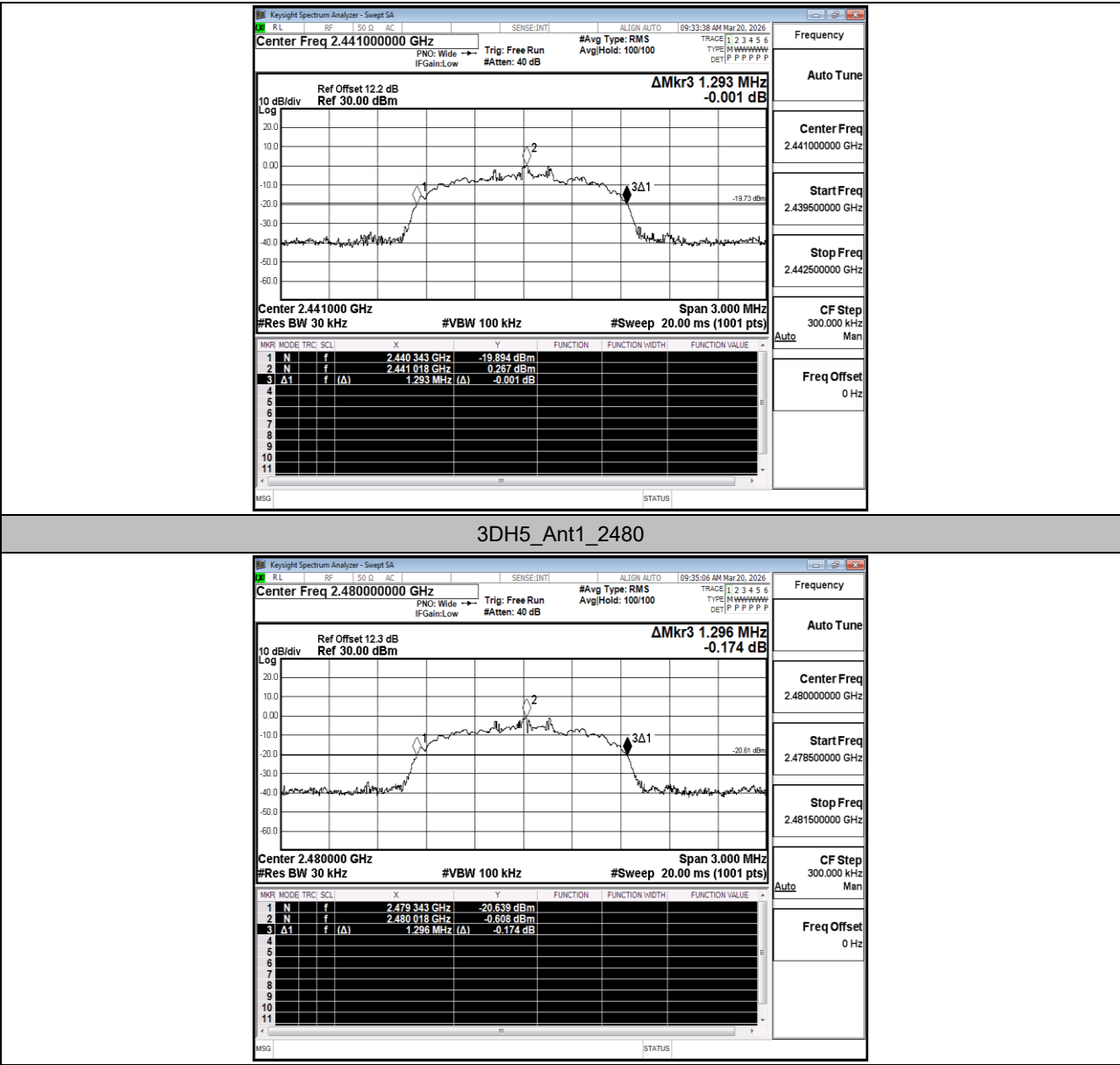
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

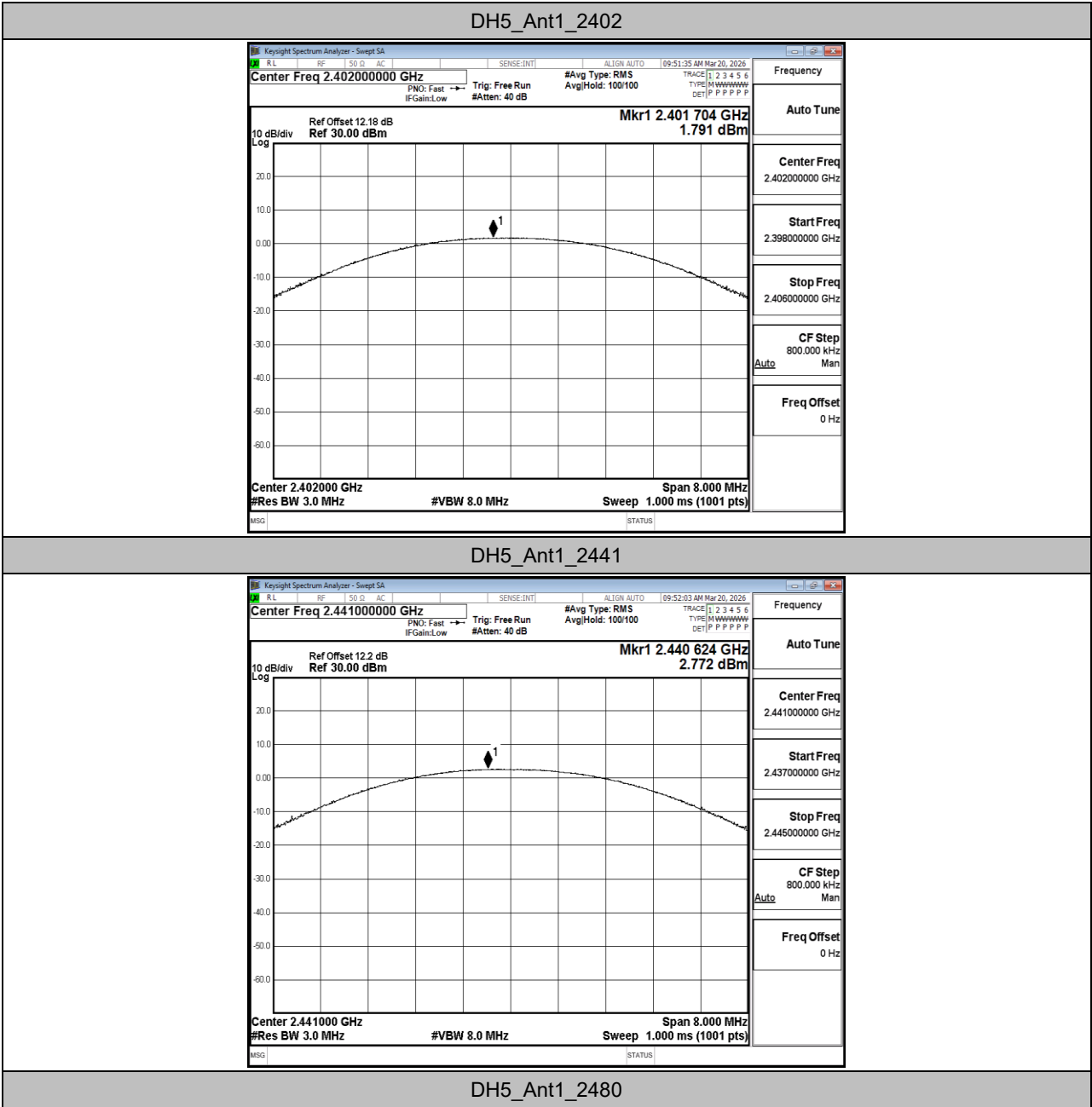


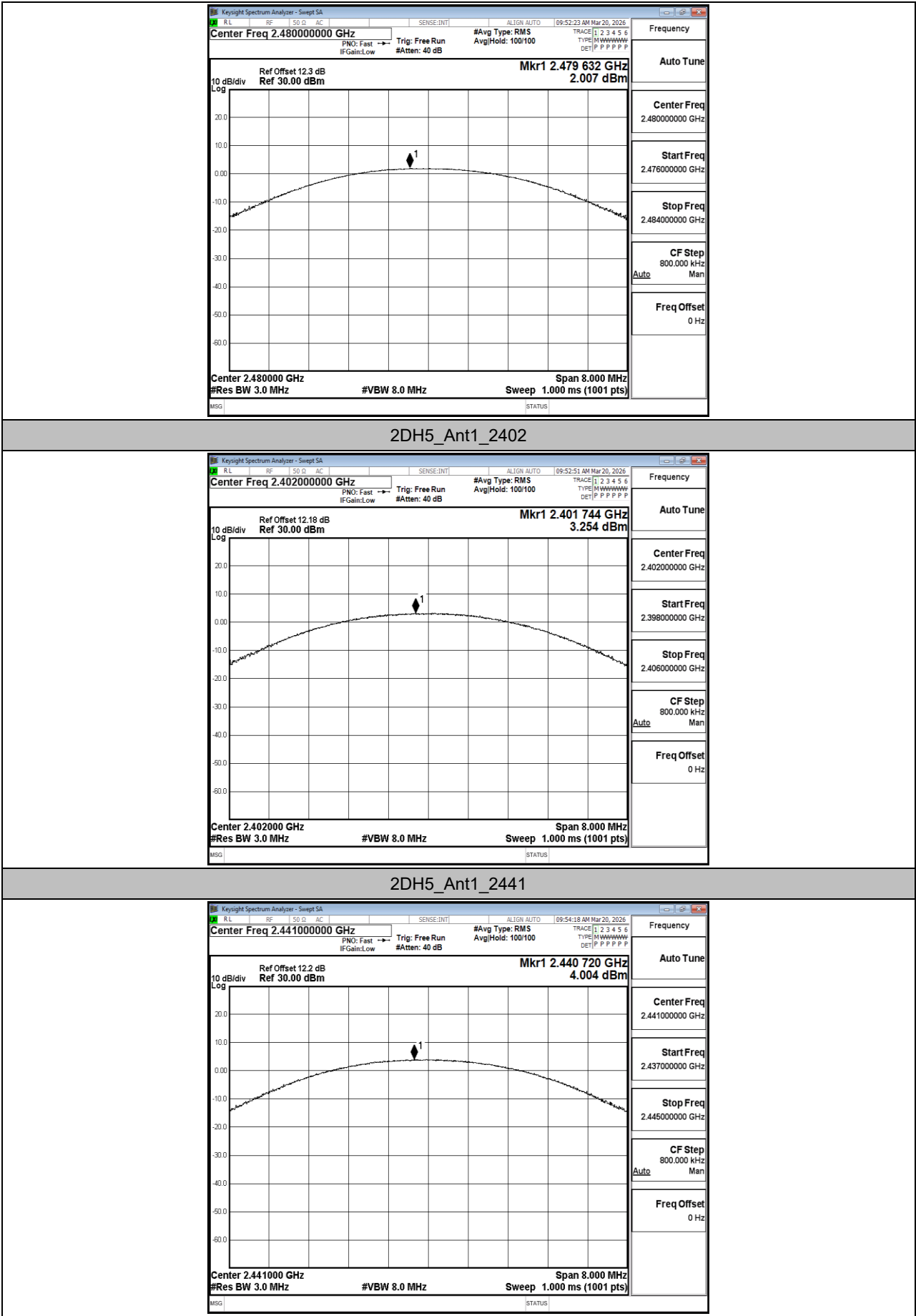
A.2 Maximum Peak conducted output power

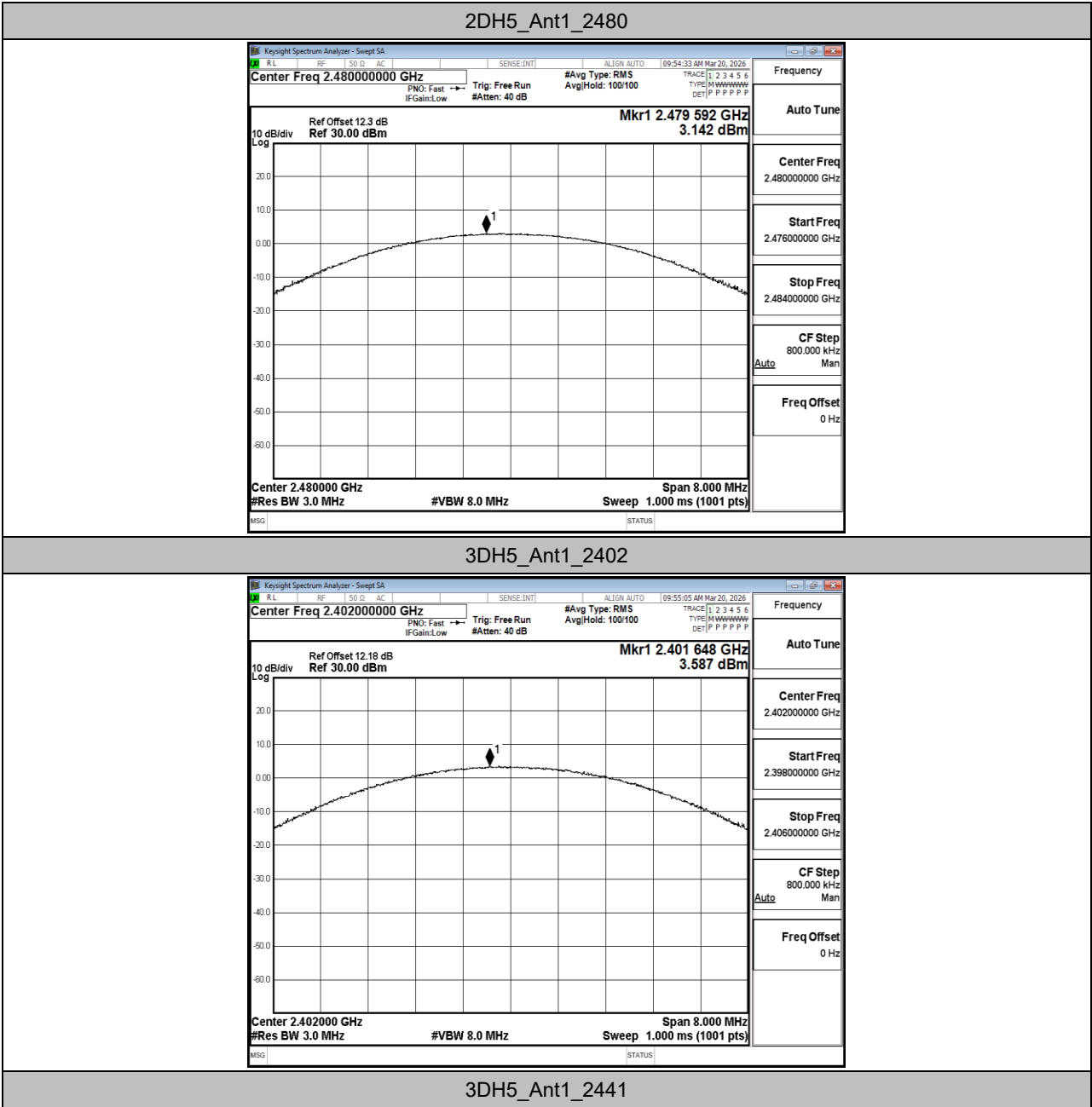
Left ear:

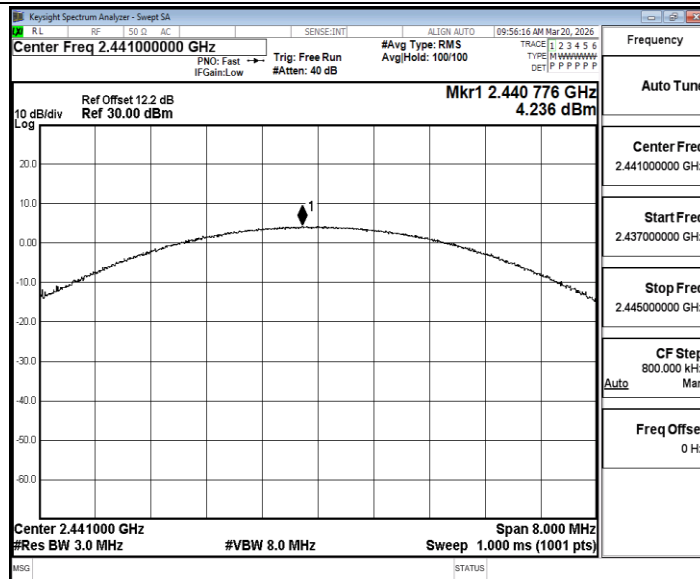
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.79	≤30	PASS
		2441	2.77	≤30	PASS
		2480	2.01	≤30	PASS
2DH5	Ant1	2402	3.25	≤30	PASS
		2441	4.00	≤30	PASS
		2480	3.14	≤30	PASS
3DH5	Ant1	2402	3.59	≤30	PASS
		2441	4.24	≤30	PASS
		2480	3.19	≤30	PASS

Test Graphs

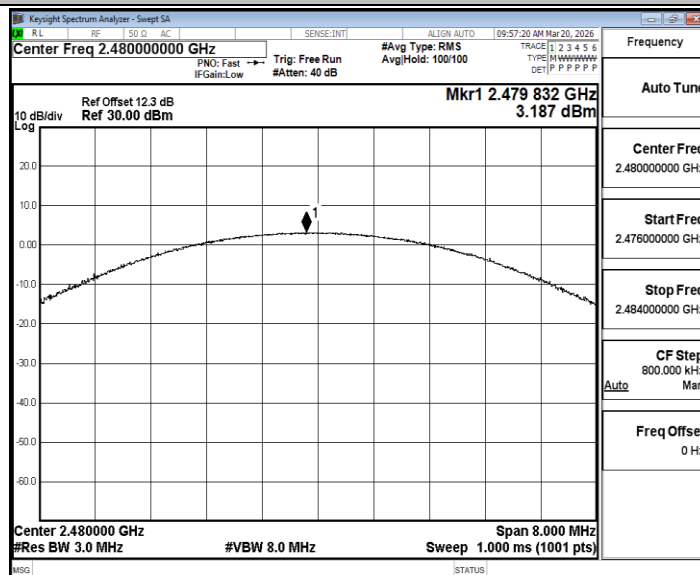








3DH5_Ant1_2480

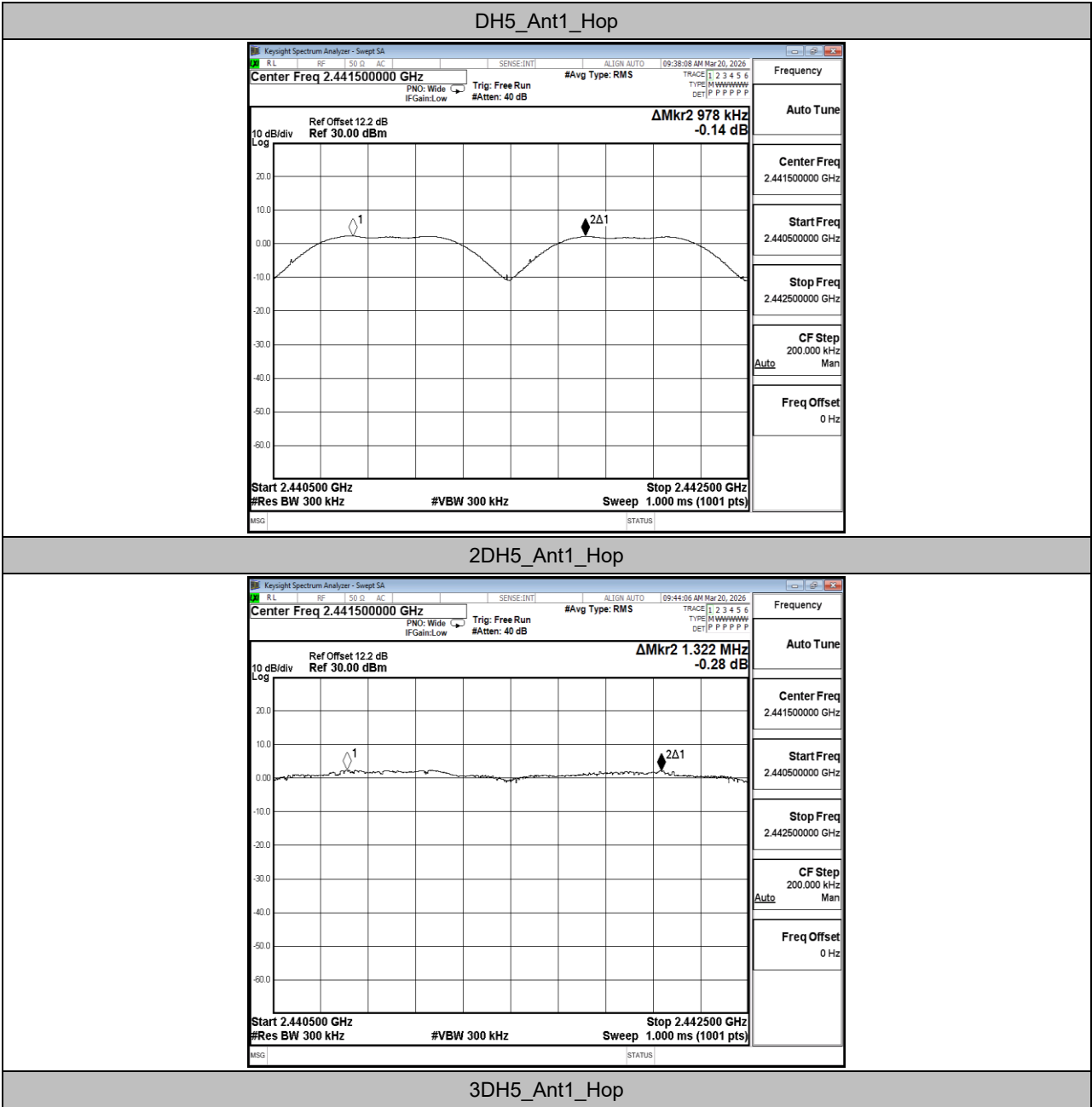


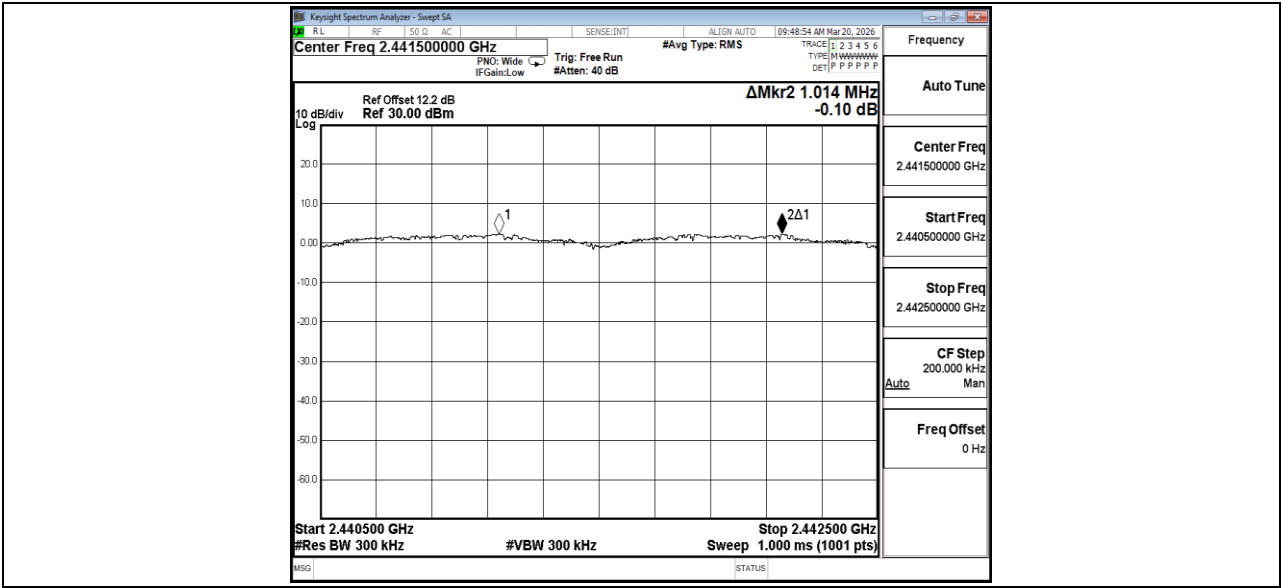
A.3 Carrier frequency separation

Left ear:

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.978	≥0.640	PASS
2DH5	Ant1	Hop	1.322	≥0.864	PASS
3DH5	Ant1	Hop	1.014	≥0.866	PASS

Test Graphs



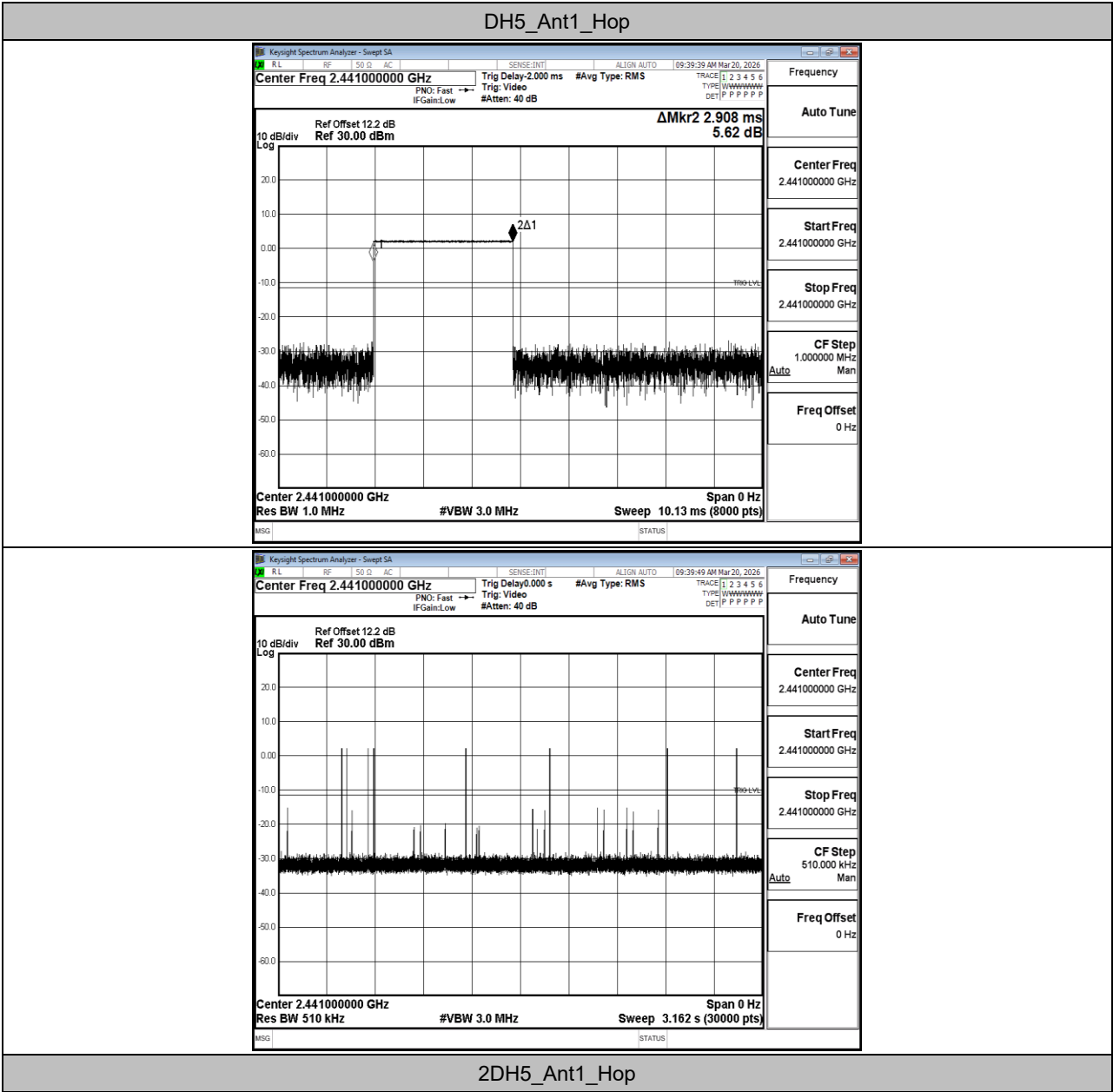


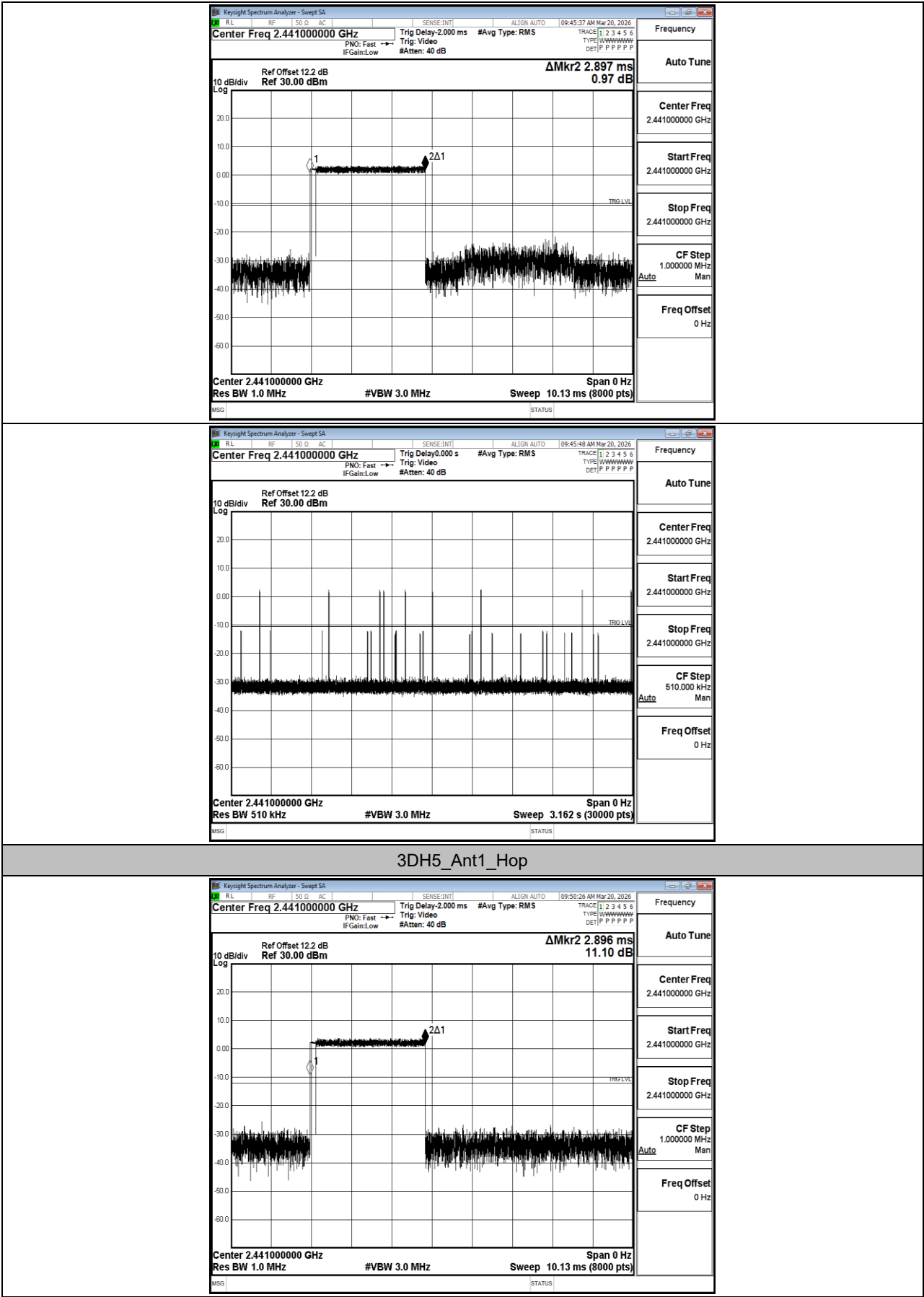
A.4 Time of occupancy

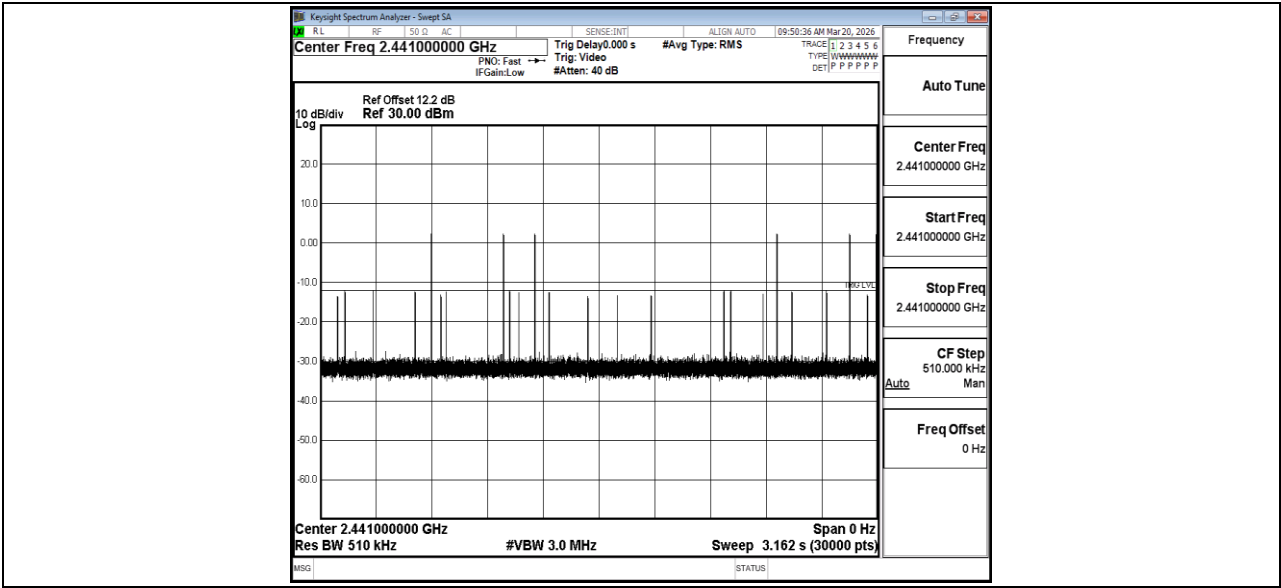
Left ear:

TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	90	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.897	100	0.29	≤0.4	PASS
3DH5	Ant1	Hop	2.896	70	0.203	≤0.4	PASS

Test Graphs





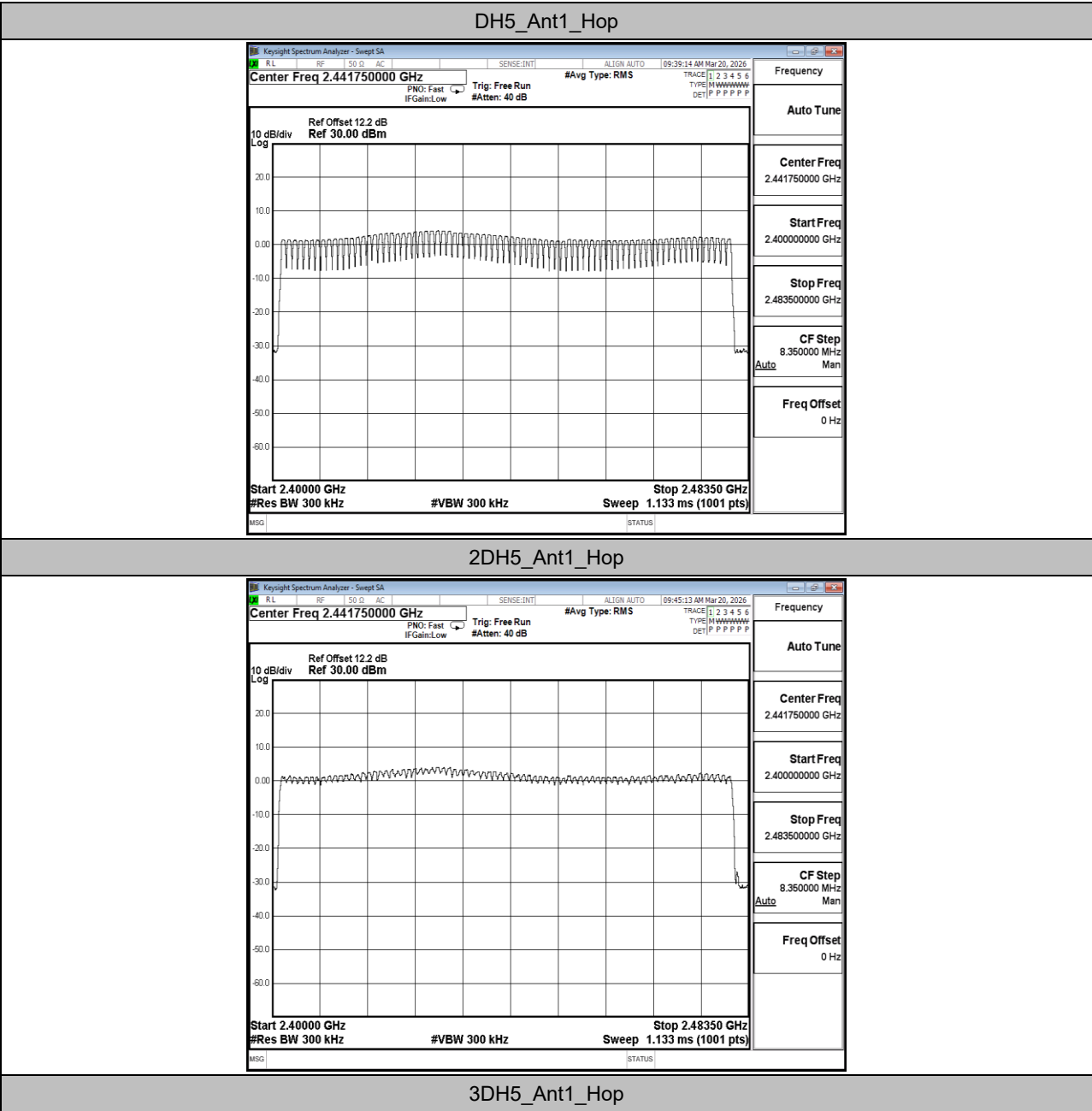


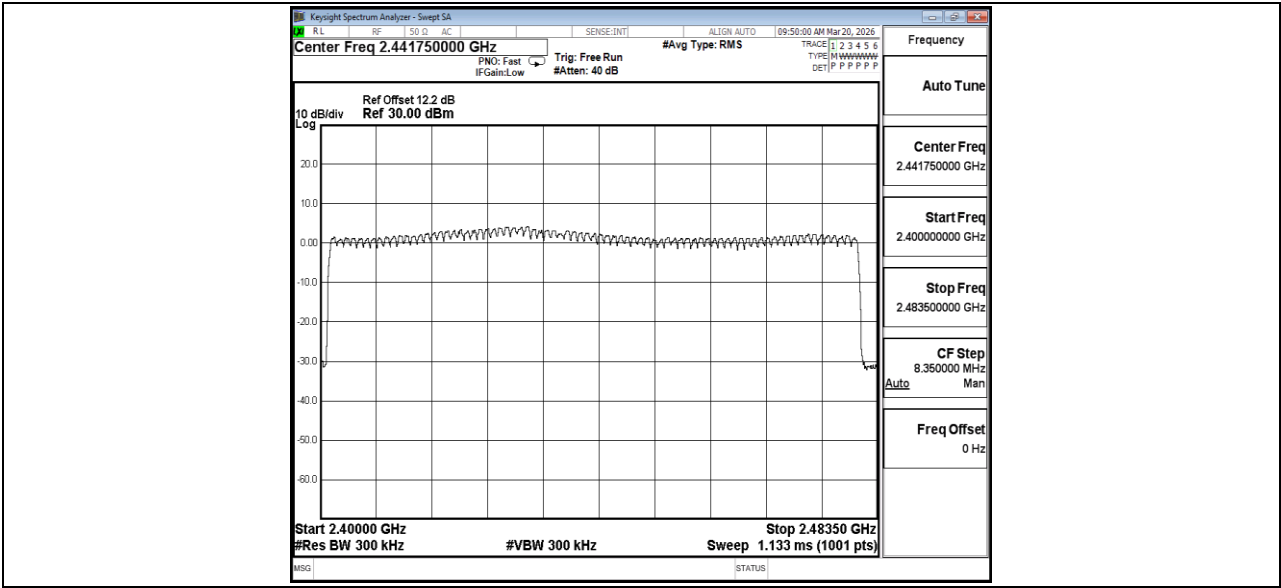
A.5 Number of hopping channels

Left ear:

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



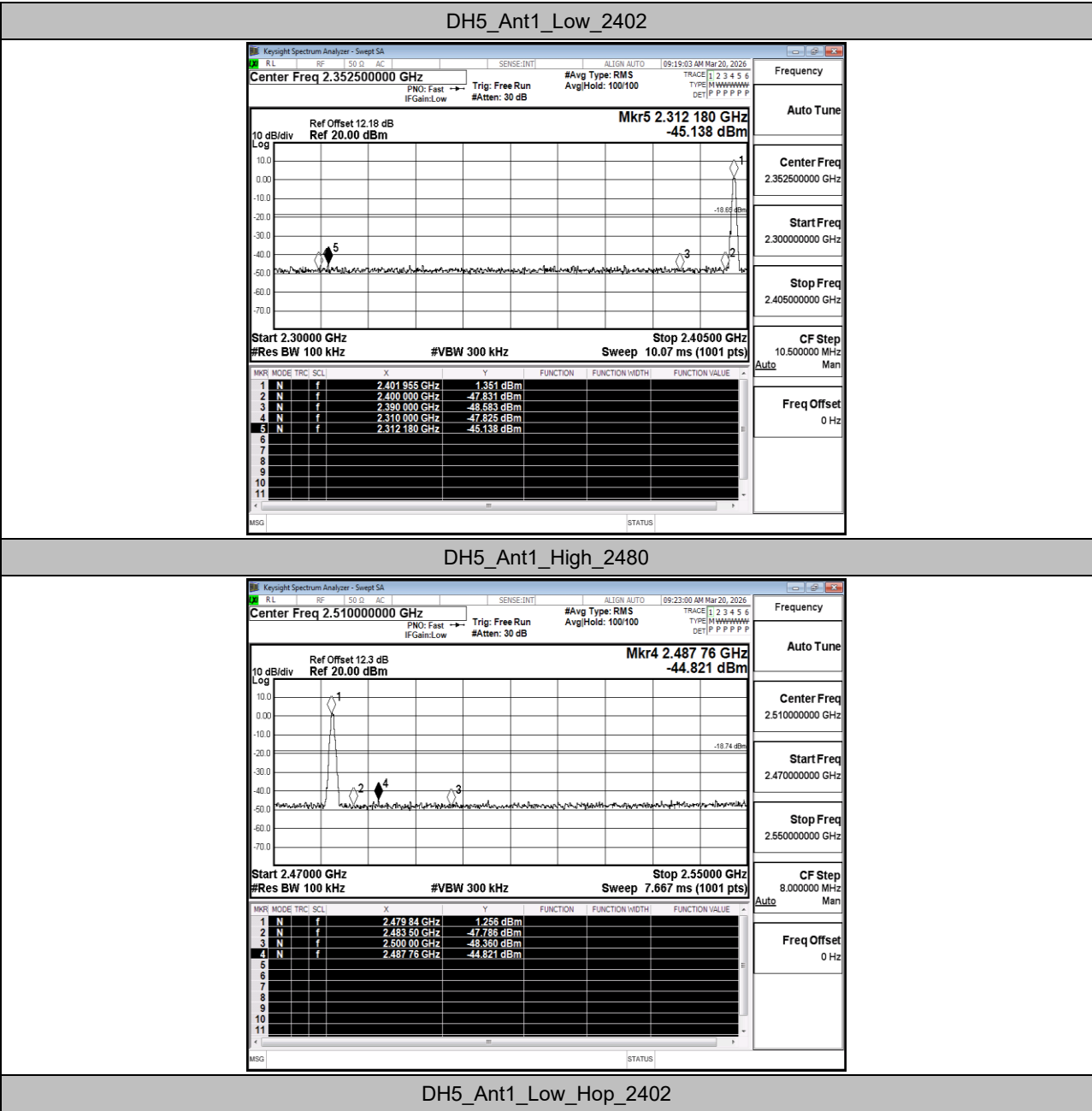


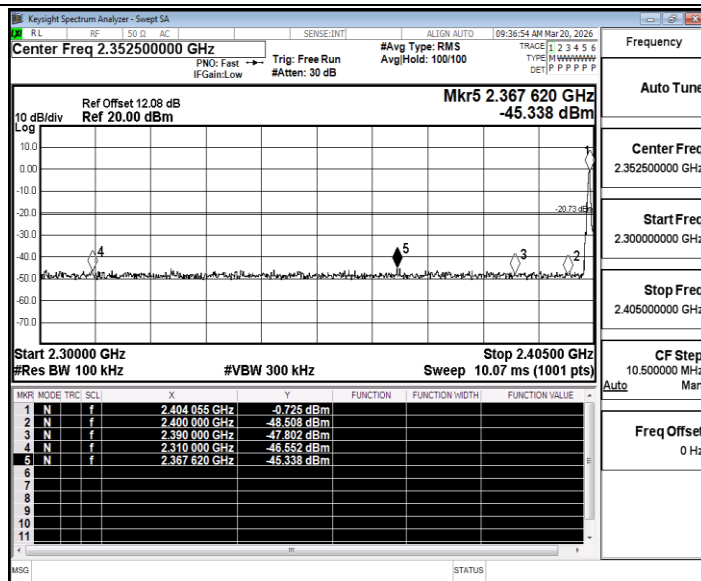
A.6 Band edge measurements

Left ear:

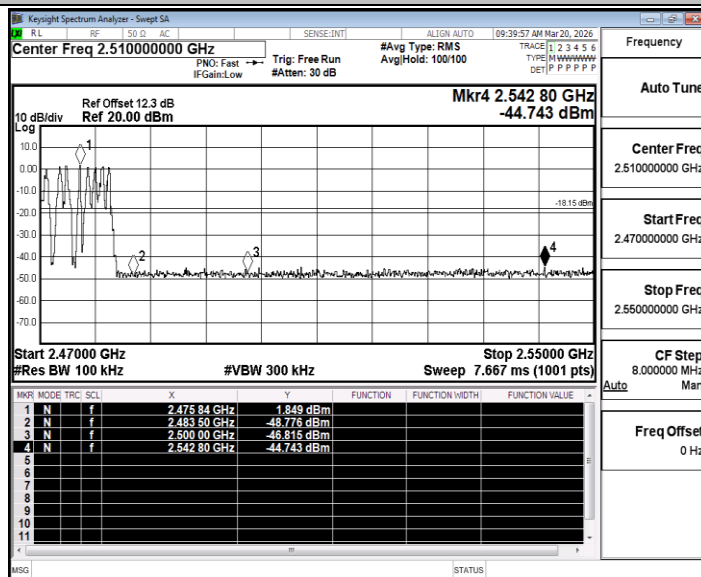
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.35	-45.14	≤-18.65	PASS
		High	2480	1.26	-44.82	≤-18.74	PASS
		Low	Hop_2402	-0.73	-45.34	≤-20.73	PASS
		High	Hop_2480	1.85	-44.74	≤-18.15	PASS
2DH5	Ant1	Low	2402	0.35	-45.1	≤-19.65	PASS
		High	2480	1.14	-45.12	≤-18.86	PASS
		Low	Hop_2402	-3.00	-45.77	≤-23	PASS
		High	Hop_2480	-0.99	-44.2	≤-20.99	PASS
3DH5	Ant1	Low	2402	-0.83	-44.89	≤-20.83	PASS
		High	2480	1.40	-44.95	≤-18.6	PASS
		Low	Hop_2402	-2.97	-45.43	≤-22.97	PASS
		High	Hop_2480	-0.70	-44.24	≤-20.7	PASS

Test Graphs

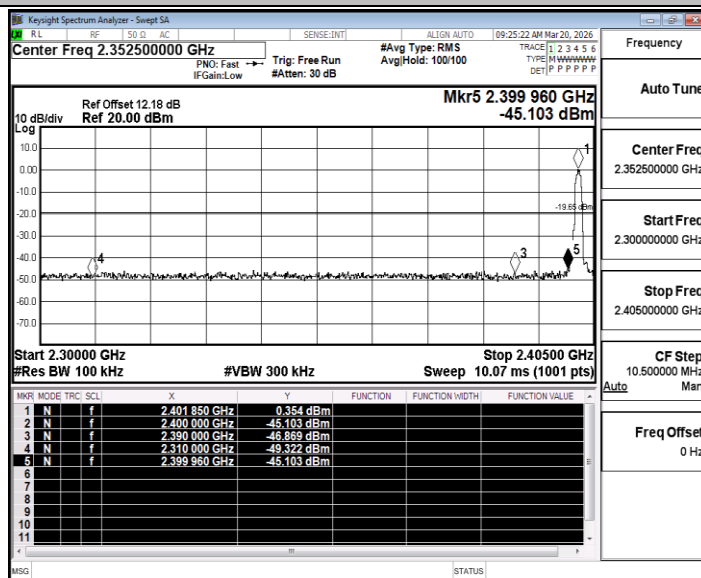


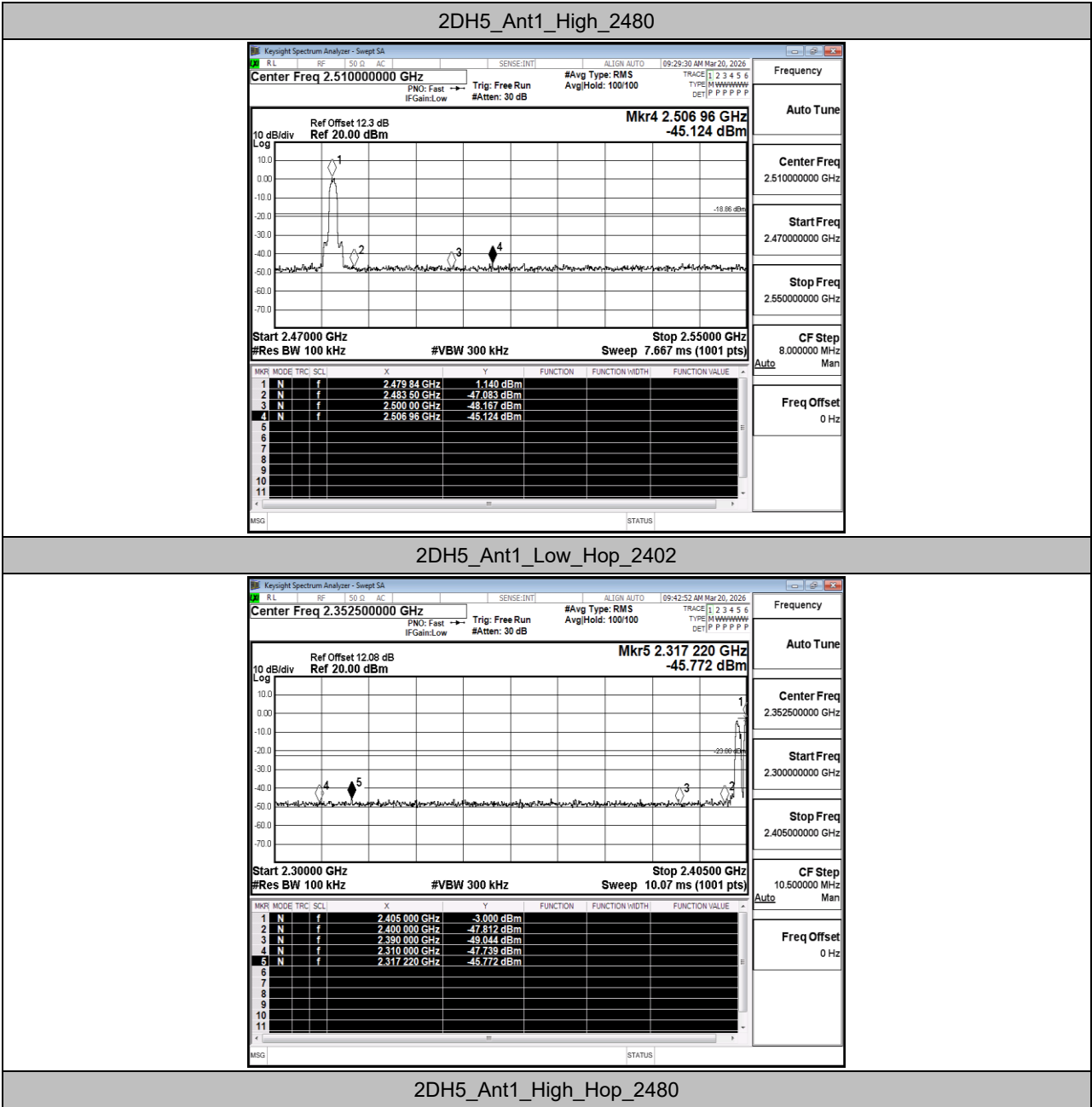


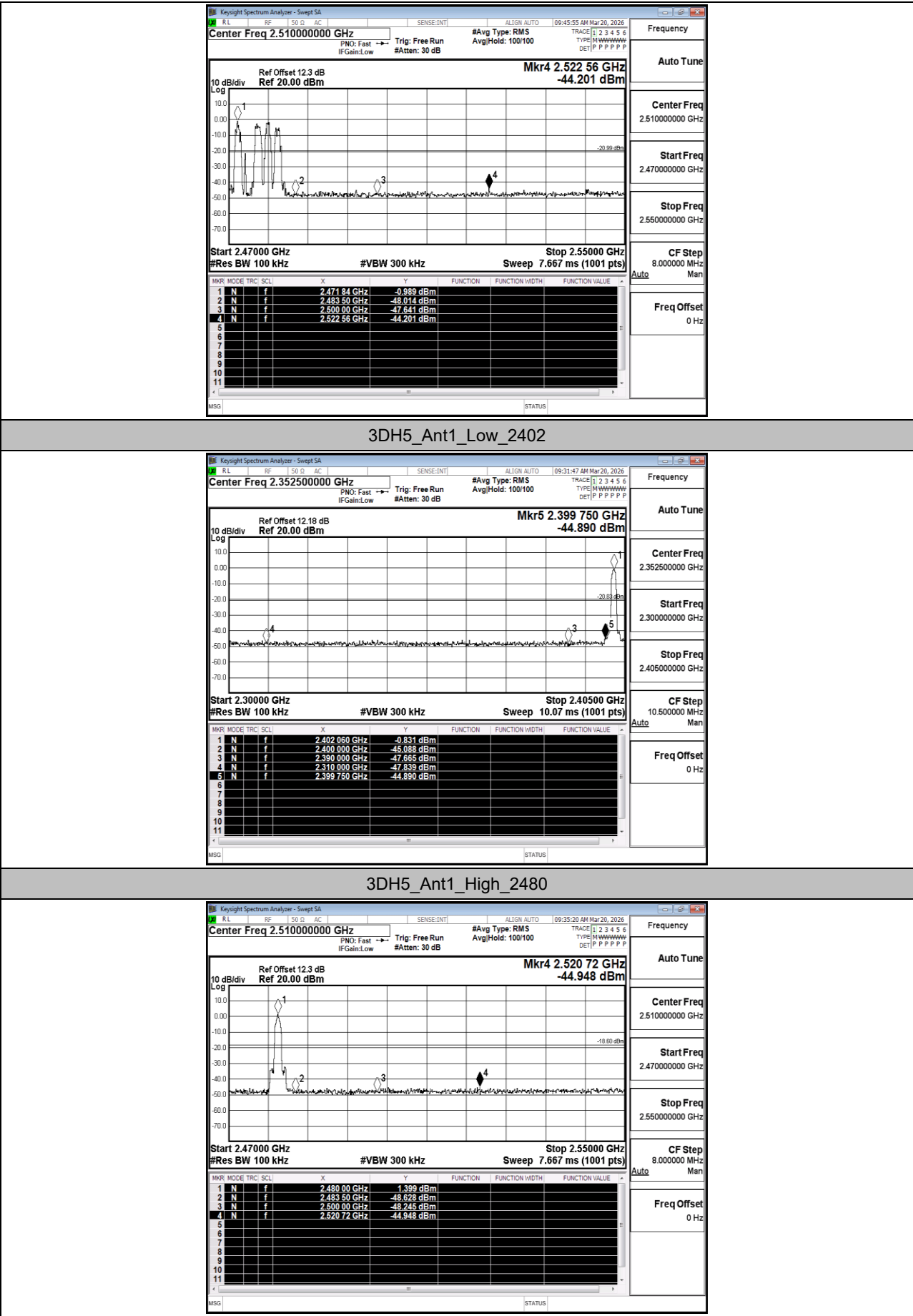
DH5_Ant1_High_Hop_2480

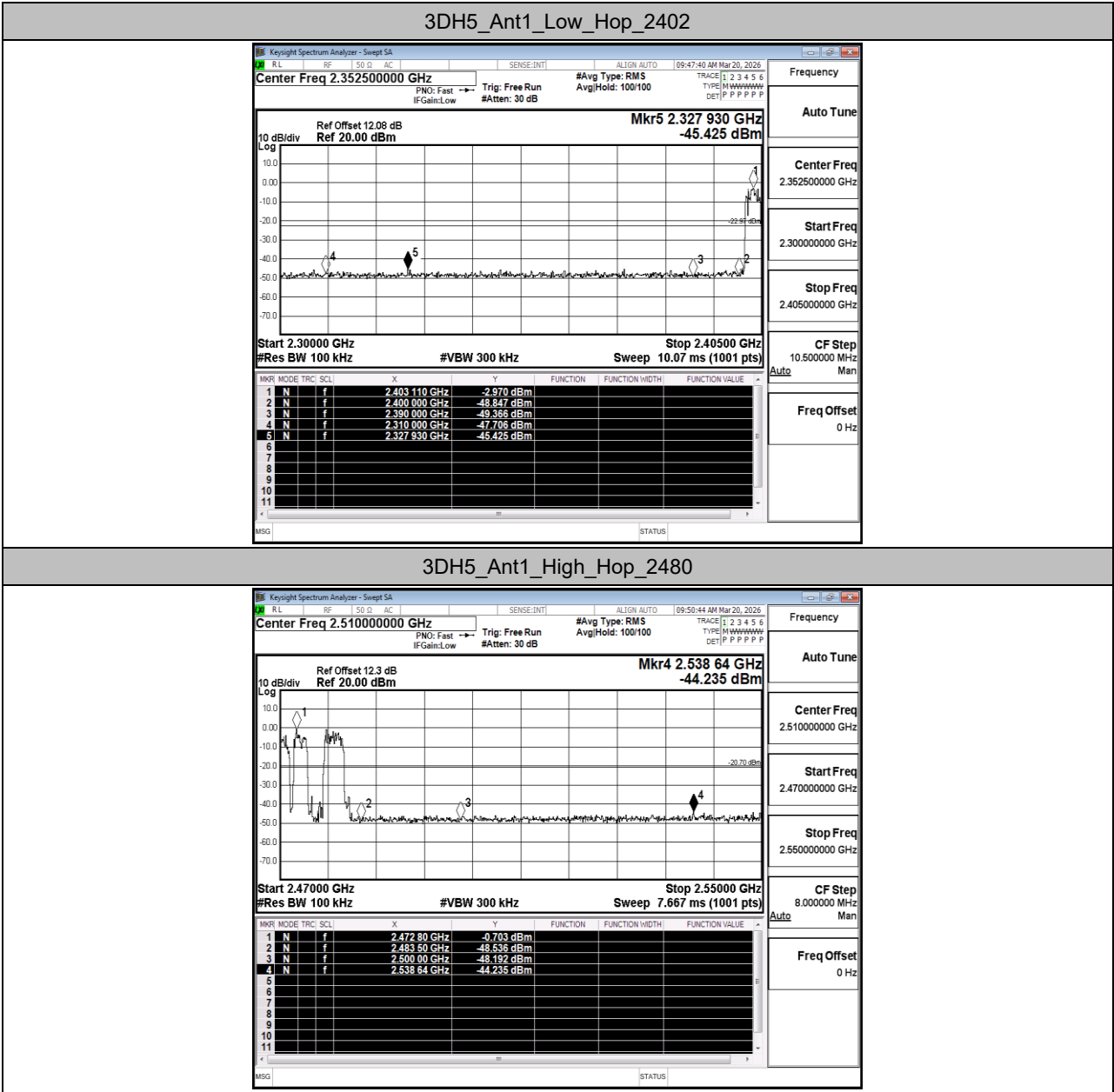


2DH5_Ant1_Low_2402









A.7 Conducted Spurious Emission

Left ear:

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-54.5	≤-18.28	PASS
			1000~26500	1.72	-54.63	≤-18.28	PASS
		2441	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-51	≤-17.7	PASS
			1000~26500	2.30	-54.81	≤-17.7	PASS
		2480	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-53.23	≤-18.43	PASS
			1000~26500	1.57	-54.89	≤-18.43	PASS
2DH5	Ant1	2402	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-52.62	≤-18.9	PASS
			1000~26500	1.10	-54.3	≤-18.9	PASS
		2441	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-55.32	≤-17.86	PASS
			1000~26500	2.14	-51.79	≤-17.86	PASS
		2480	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-53.53	≤-18.55	PASS
			1000~26500	1.45	-54.43	≤-18.55	PASS
3DH5	Ant1	2402	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-55.64	≤-18.71	PASS
			1000~26500	1.29	-53.52	≤-18.71	PASS
		2441	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-53.6	≤-17.71	PASS
			1000~26500	2.29	-45.54	≤-17.71	PASS
		2480	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-53.58	≤-18.41	PASS
			1000~26500	1.59	-54.85	≤-18.41	PASS

Test Graphs

