

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth with audio guestbook retro phone

Test Model: LYRON-D11

Environmental Conditions

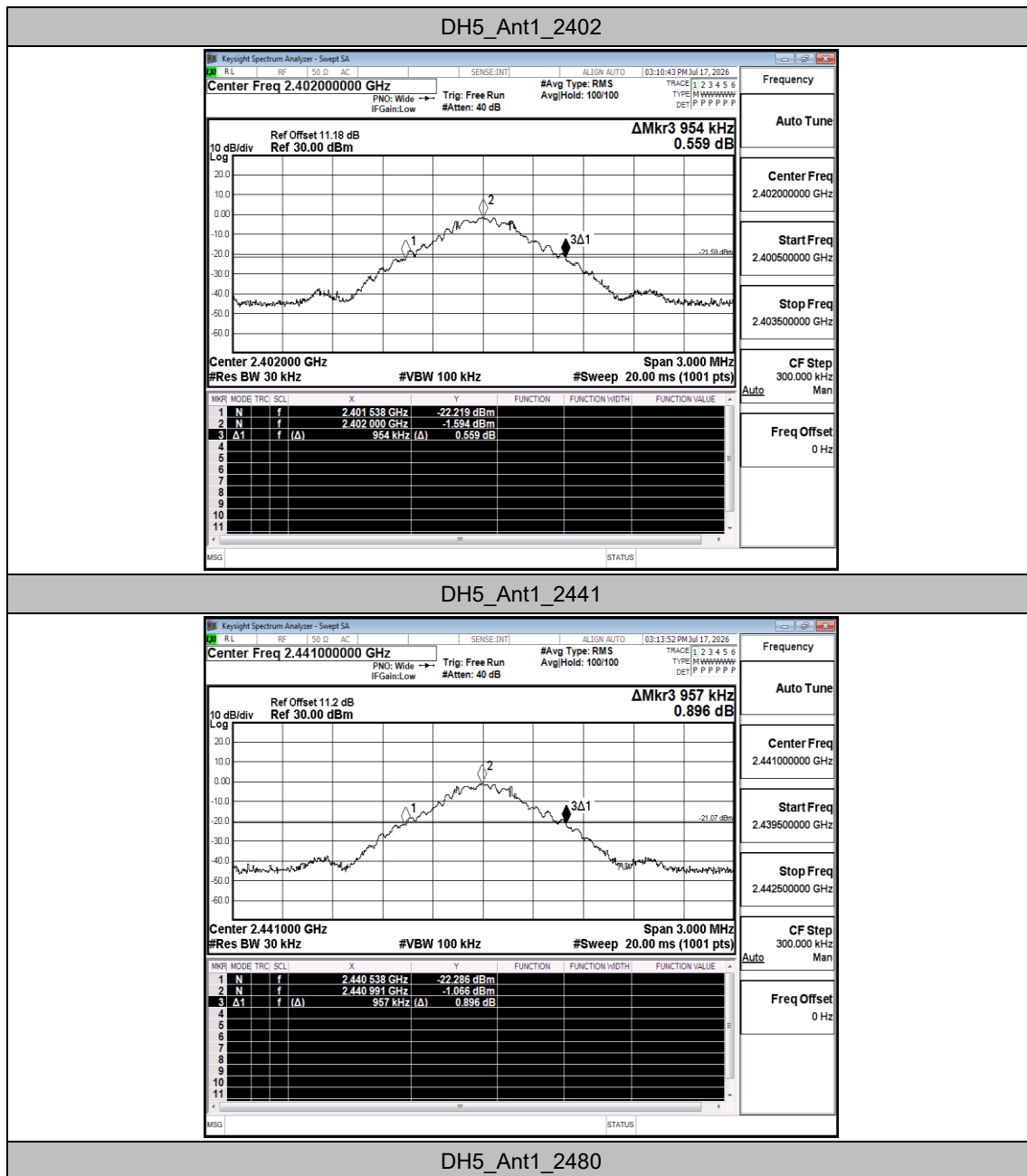
Temperature:	24.1°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

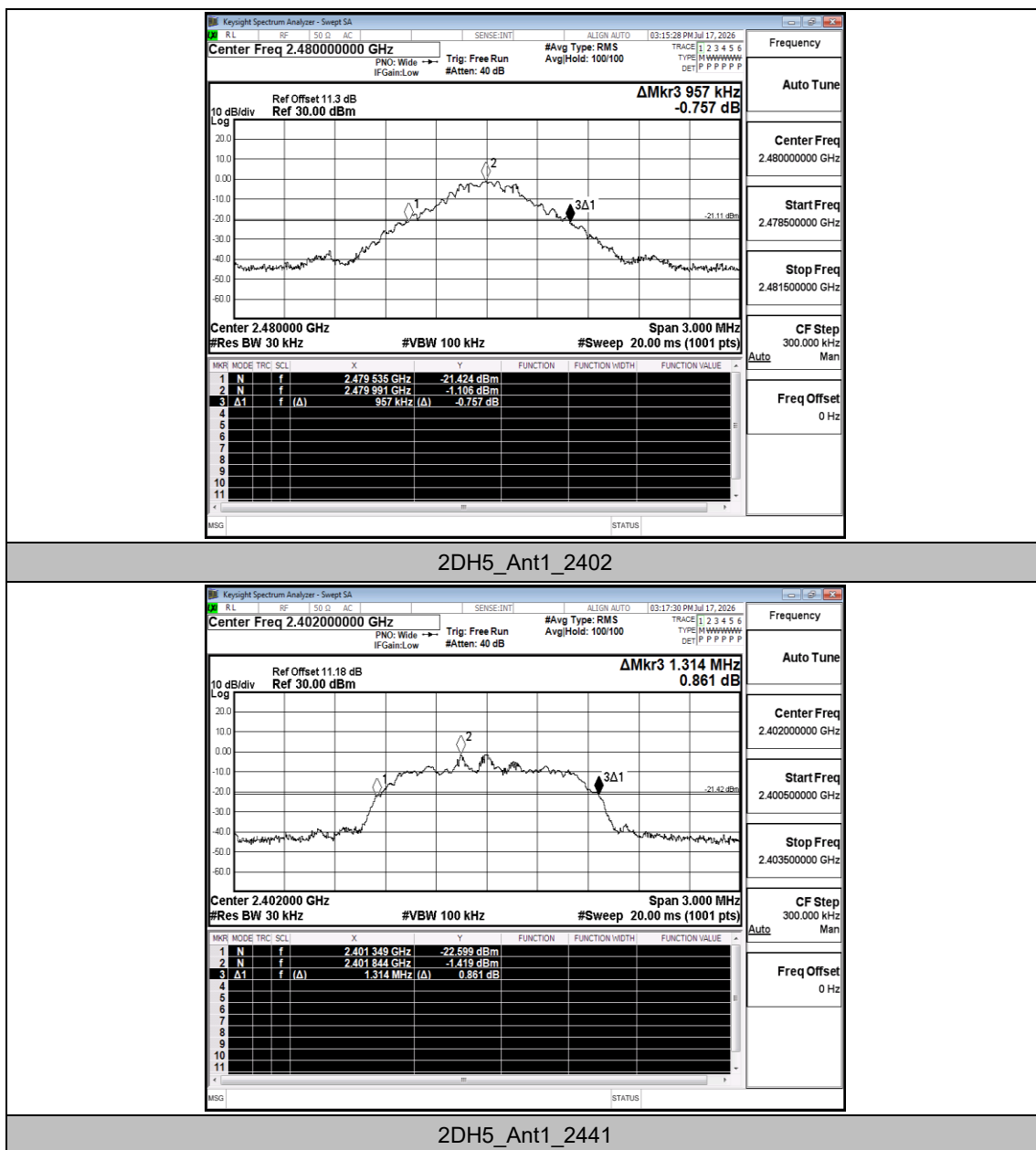
A.1 20dB Emission Bandwidth

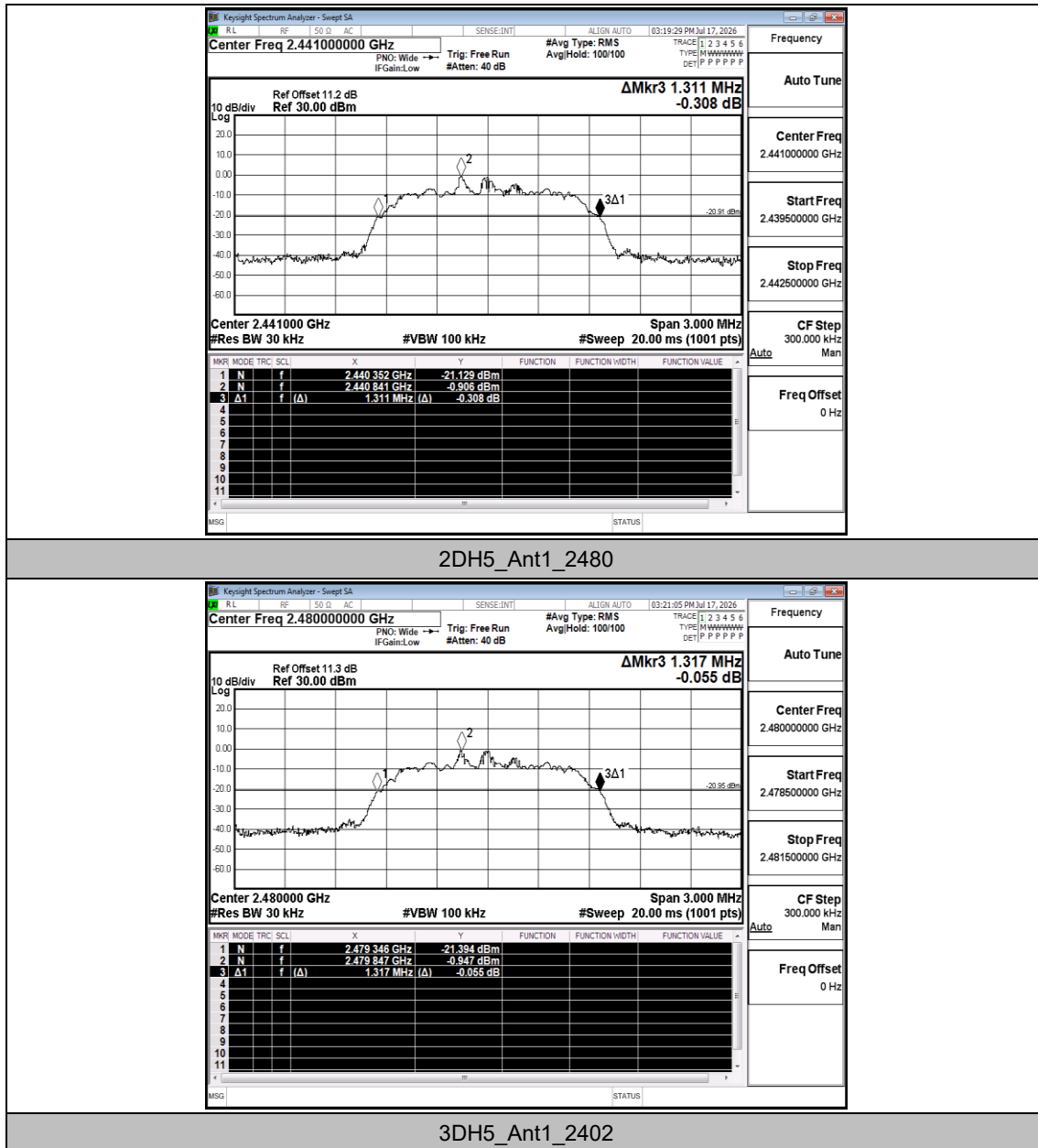
Test Result

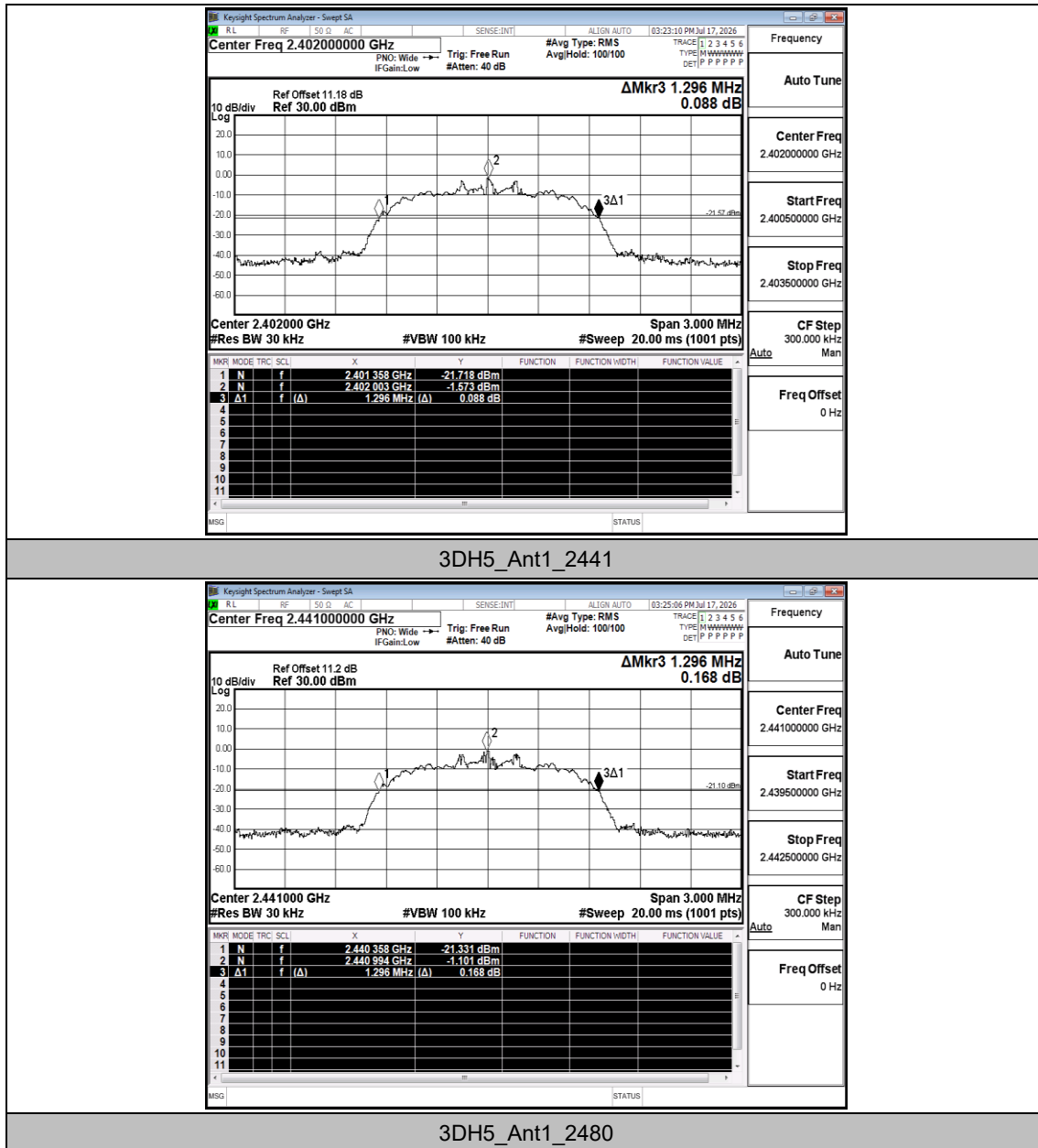
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.954	2401.538	2402.492	---	---
		2441	0.957	2440.538	2441.495	---	---
		2480	0.957	2479.535	2480.492	---	---
2DH5	Ant1	2402	1.314	2401.349	2402.663	---	---
		2441	1.311	2440.352	2441.663	---	---
		2480	1.317	2479.346	2480.663	---	---
3DH5	Ant1	2402	1.296	2401.358	2402.654	---	---
		2441	1.296	2440.358	2441.654	---	---
		2480	1.302	2479.355	2480.657	---	---

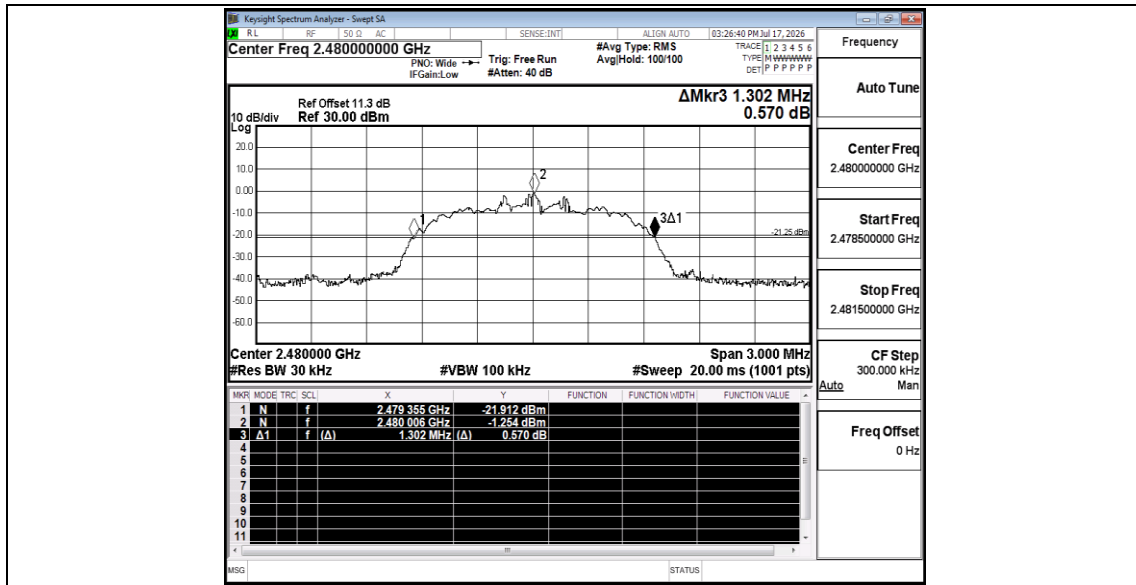
Test Graphs









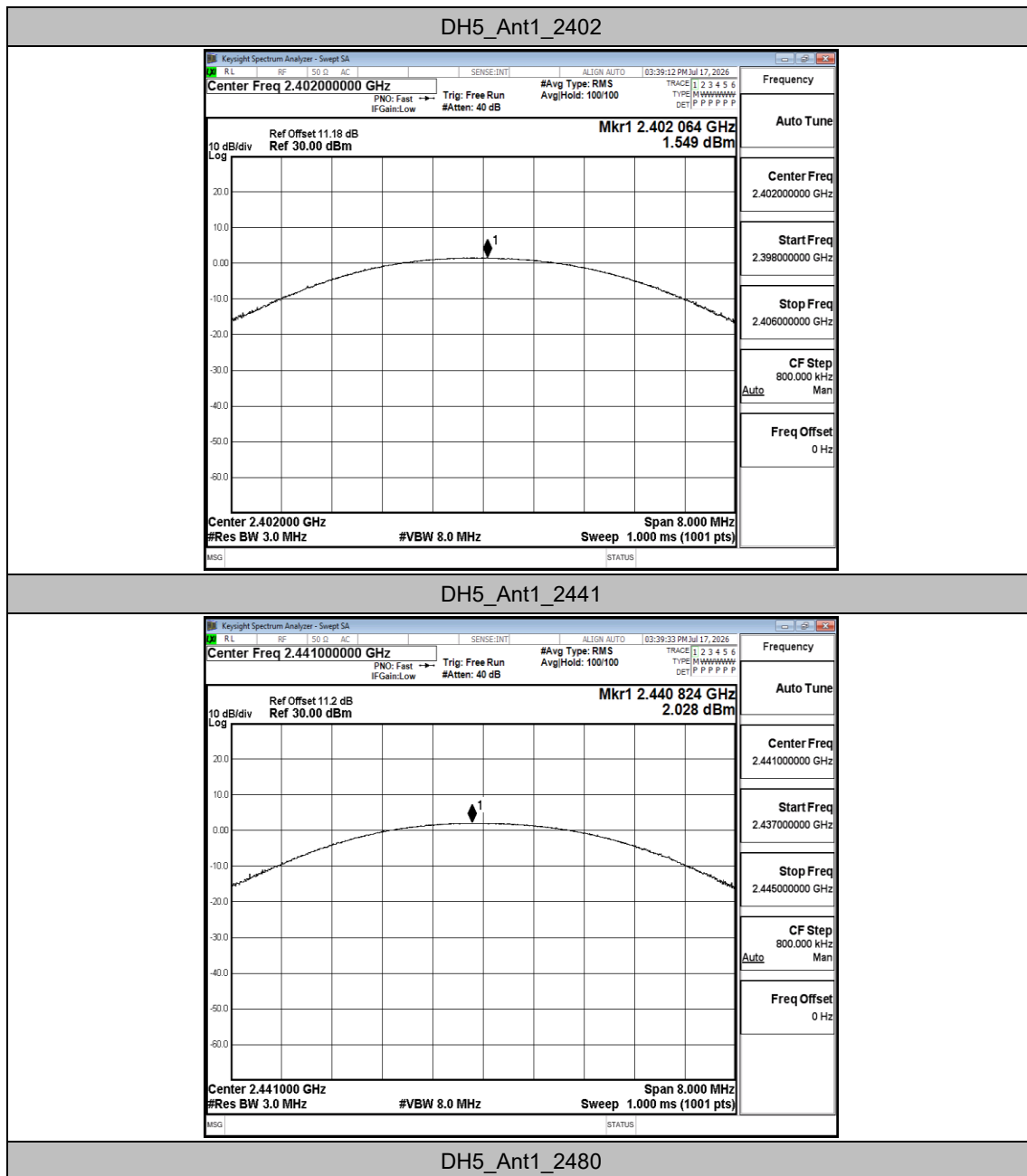


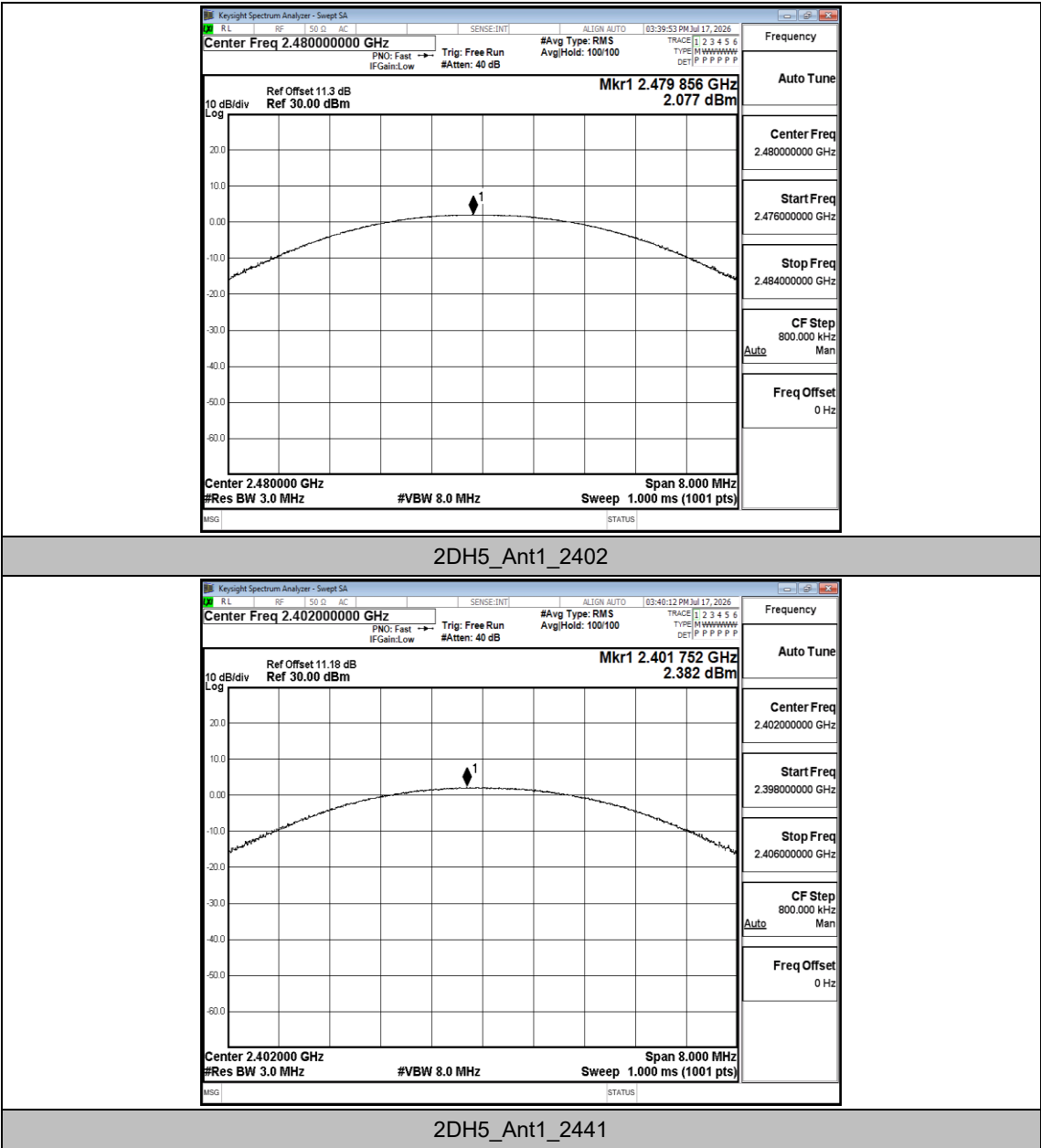
A.2 Maximum Peak conducted output power

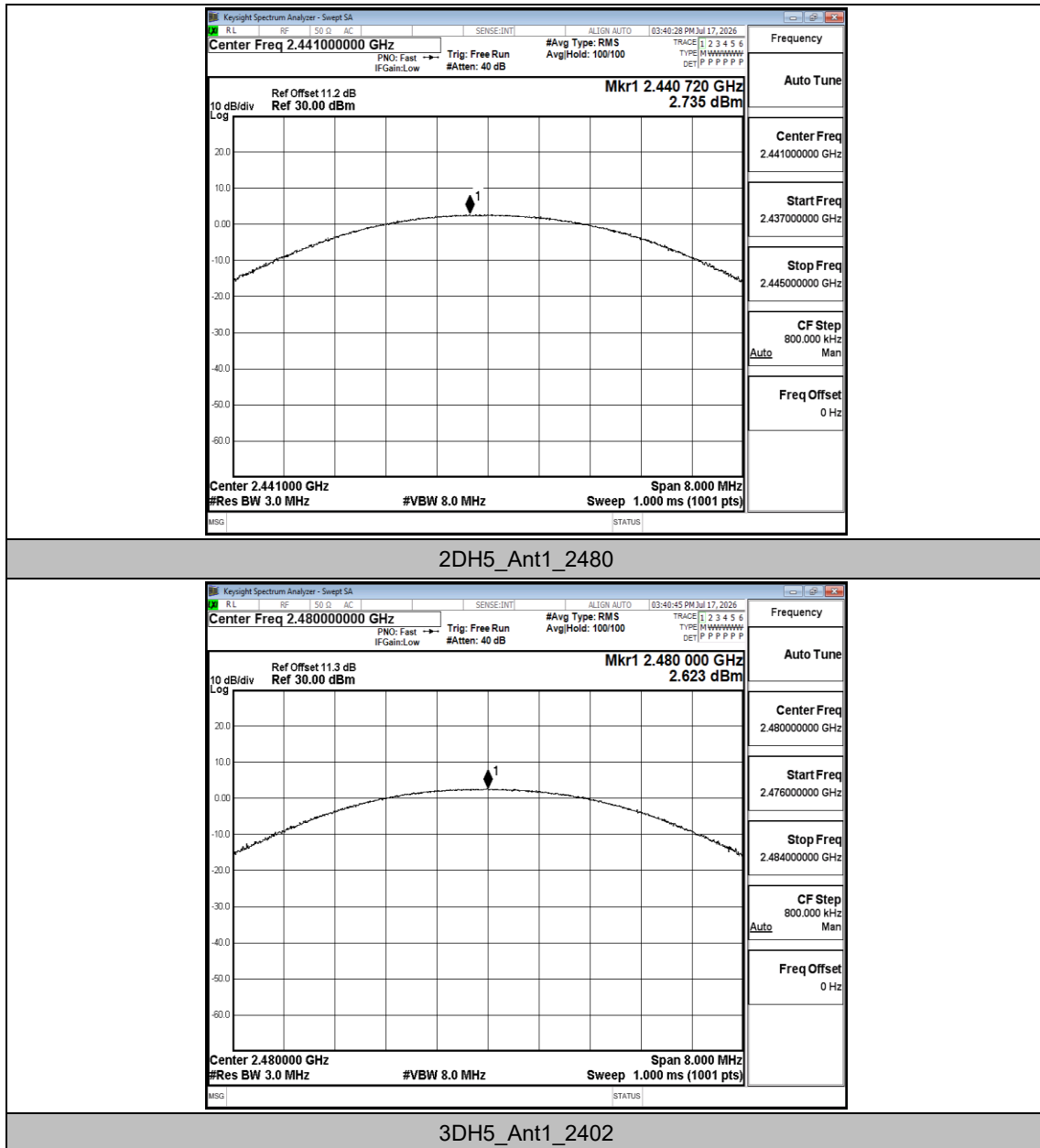
Test Result Peak

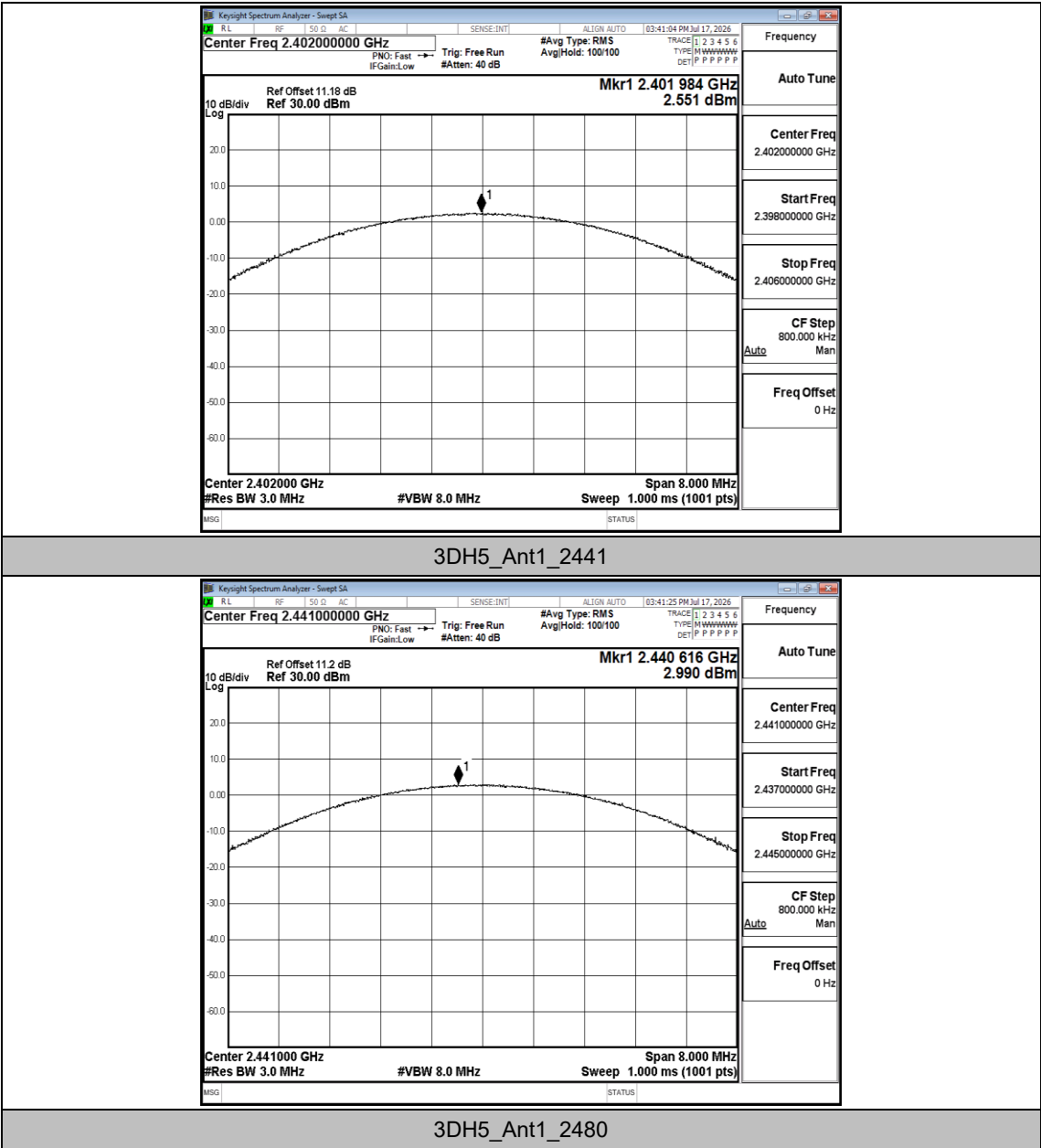
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.55	≤30	PASS
		2441	2.03	≤30	PASS
		2480	2.08	≤30	PASS
2DH5	Ant1	2402	2.38	≤20.97	PASS
		2441	2.74	≤20.97	PASS
		2480	2.62	≤20.97	PASS
3DH5	Ant1	2402	2.55	≤20.97	PASS
		2441	2.99	≤20.97	PASS
		2480	3.01	≤20.97	PASS

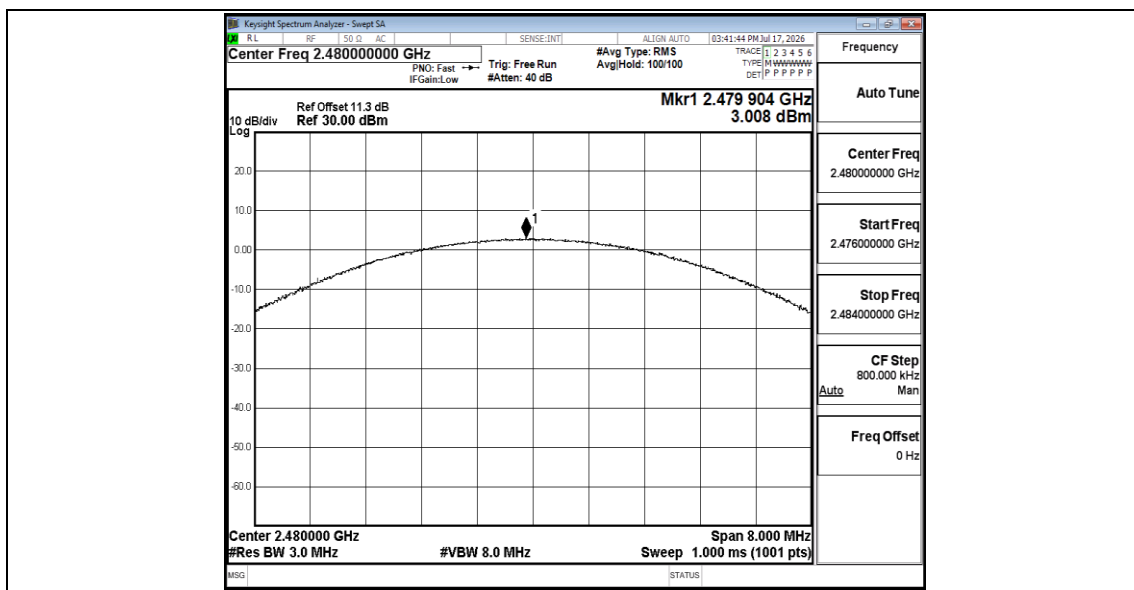
Test Graphs









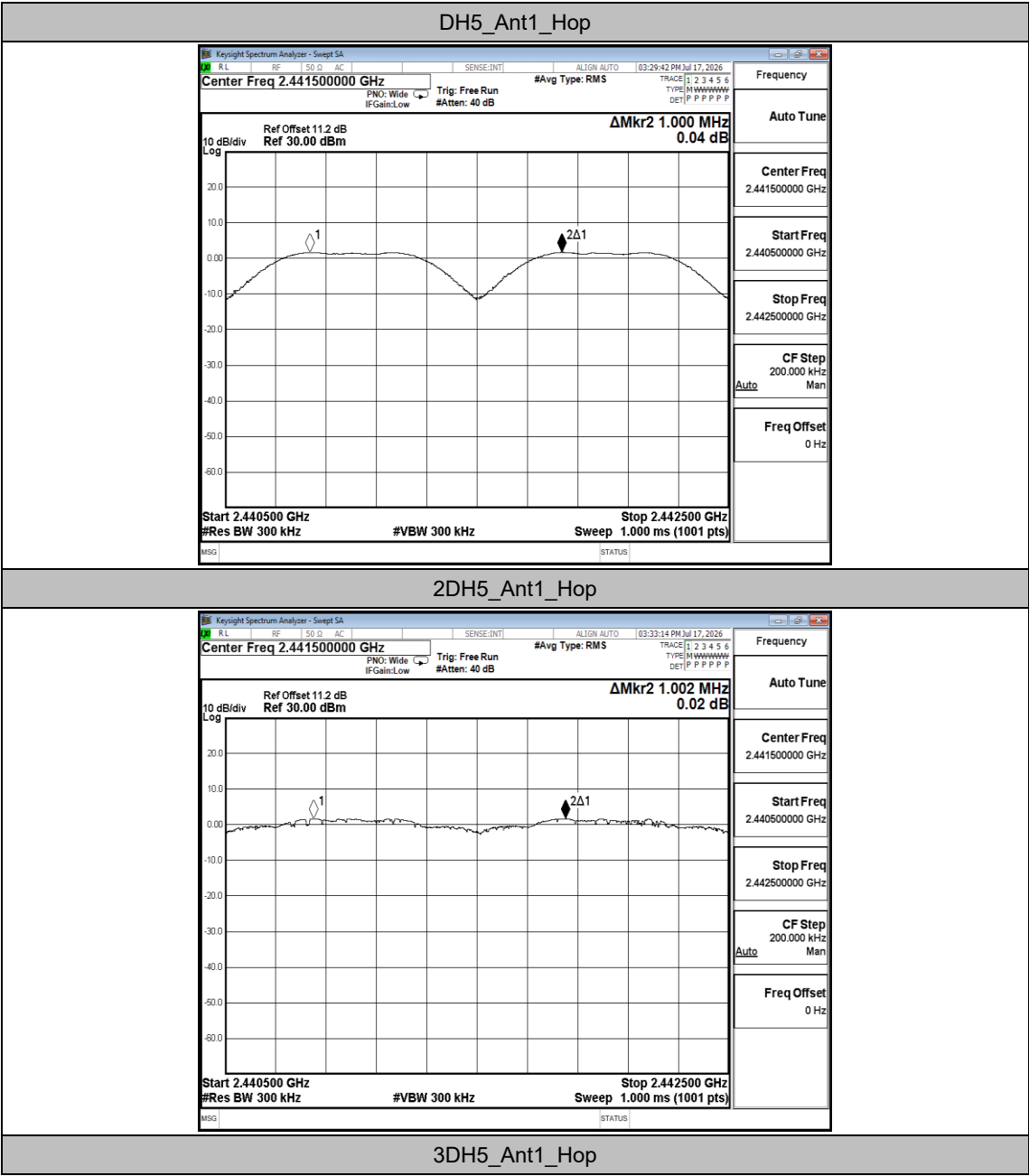


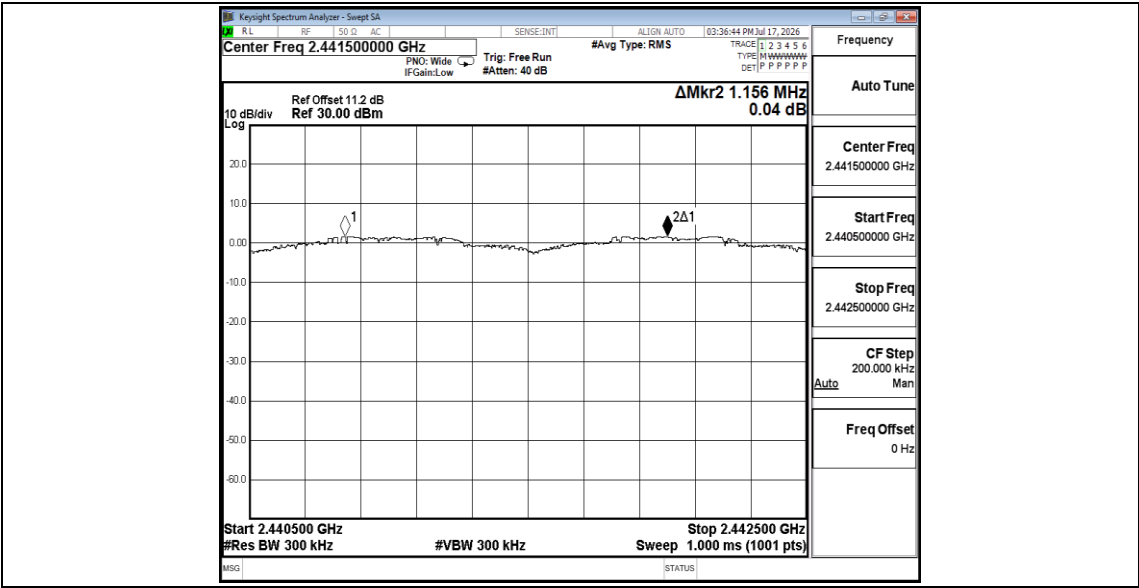
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1	≥0.957	PASS
2DH5	Ant1	Hop	1.002	≥0.878	PASS
3DH5	Ant1	Hop	1.156	≥0.868	PASS

Test Graphs



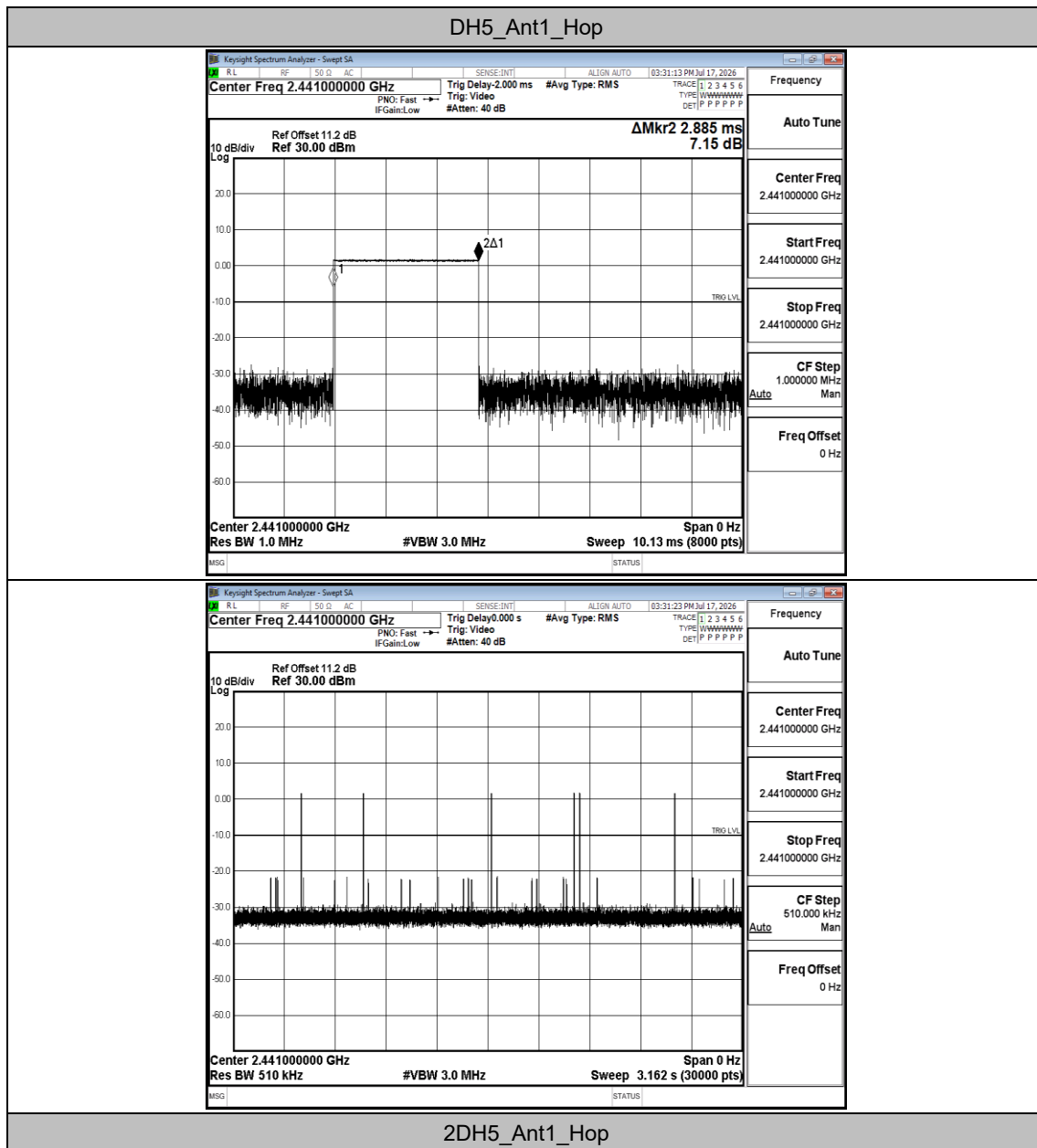


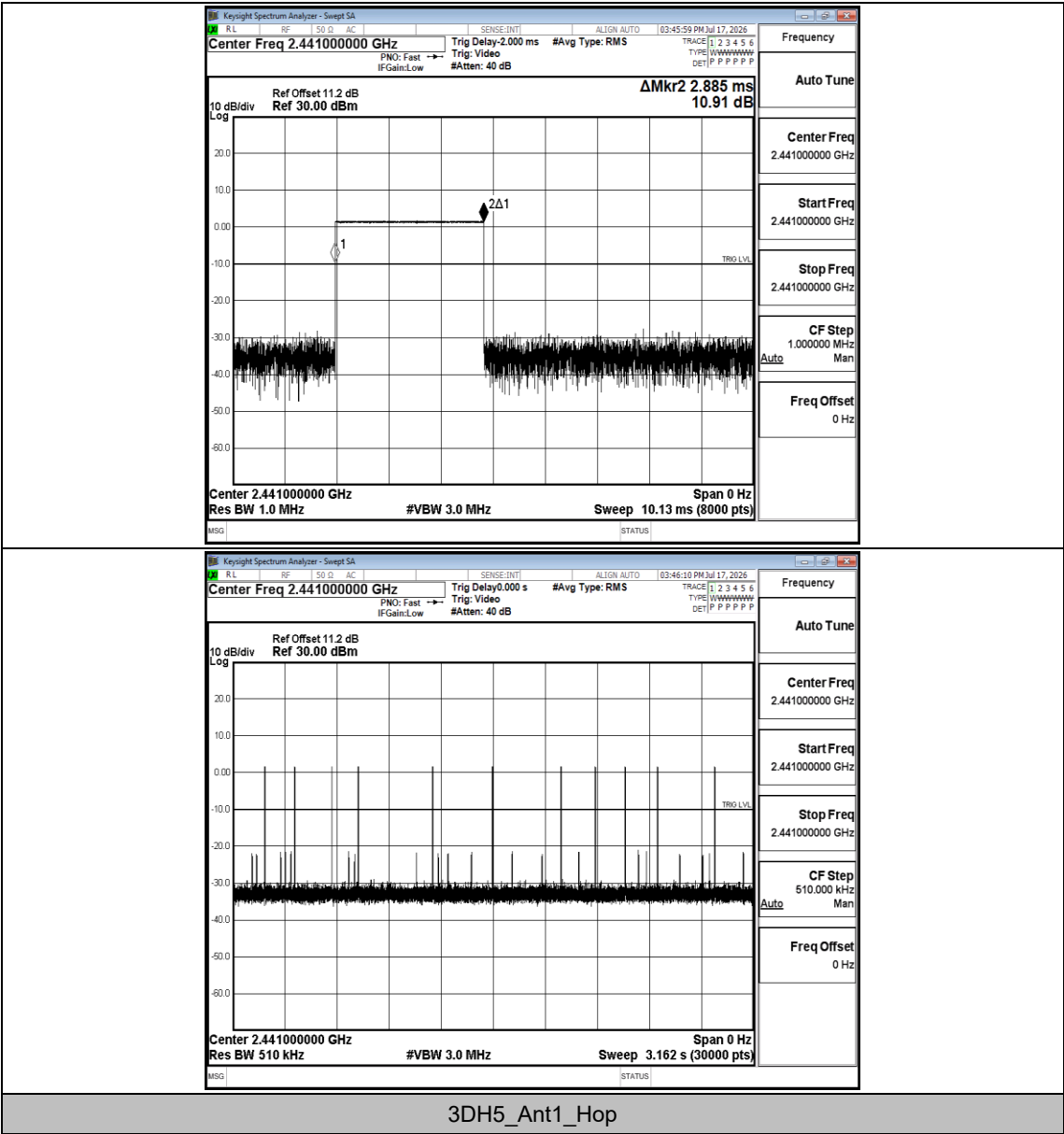
A.4 Time of occupancy

Test Result

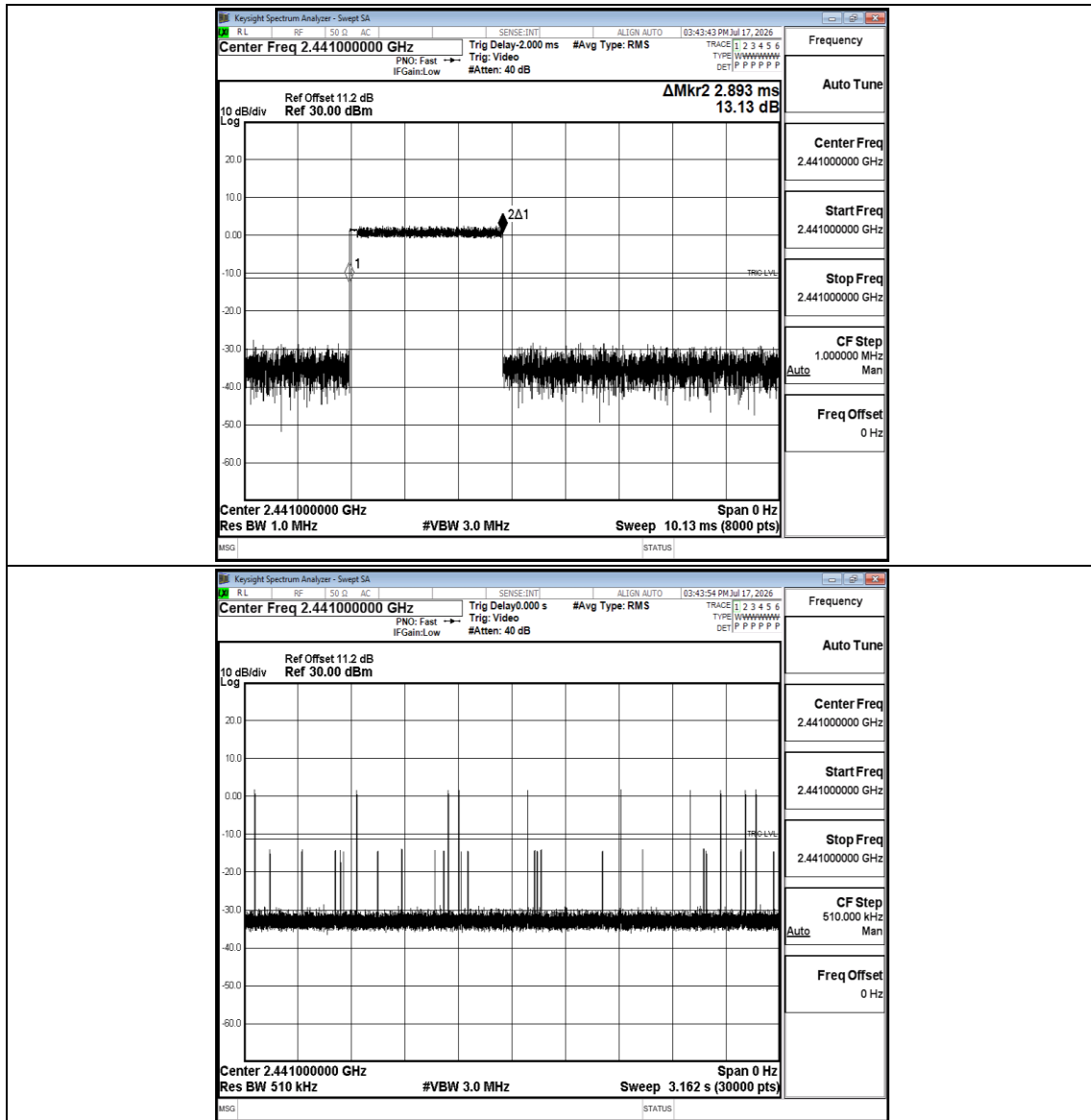
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	70	0.202	≤0.4	PASS
2DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.893	110	0.318	≤0.4	PASS

Test Graphs





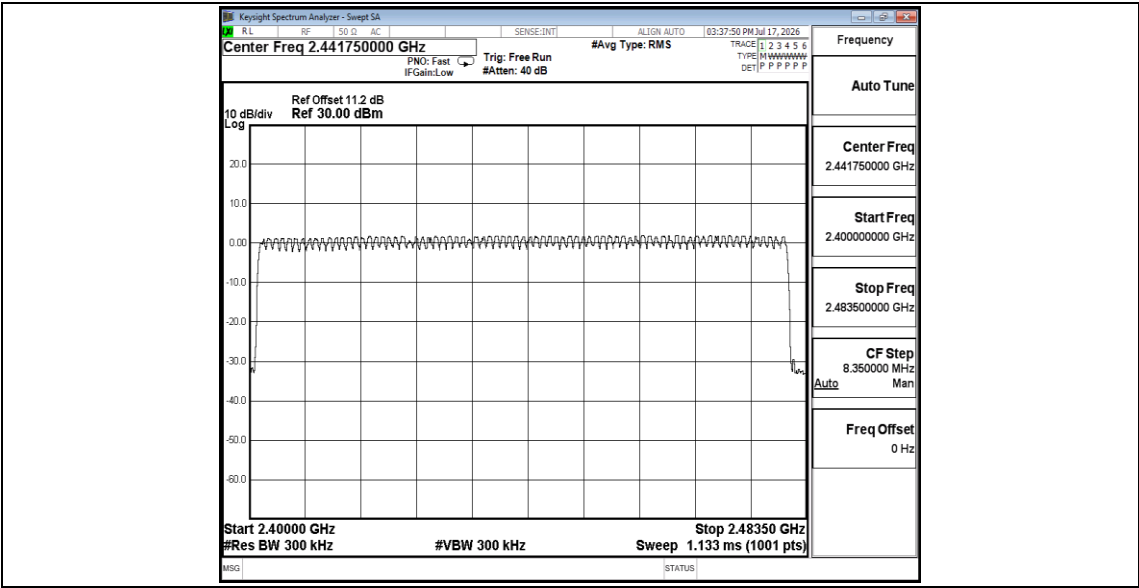
3DH5_Ant1_Hop



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

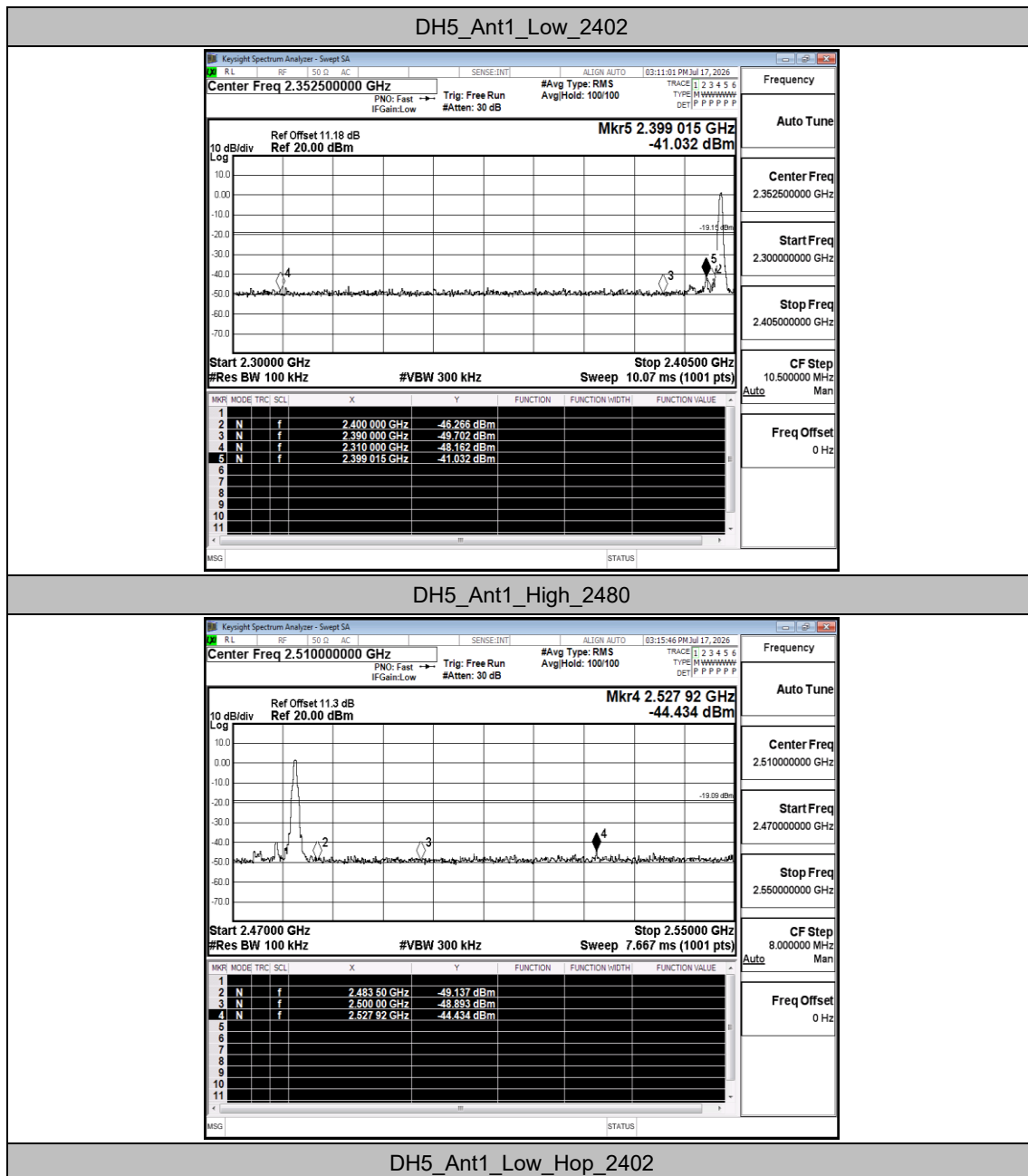


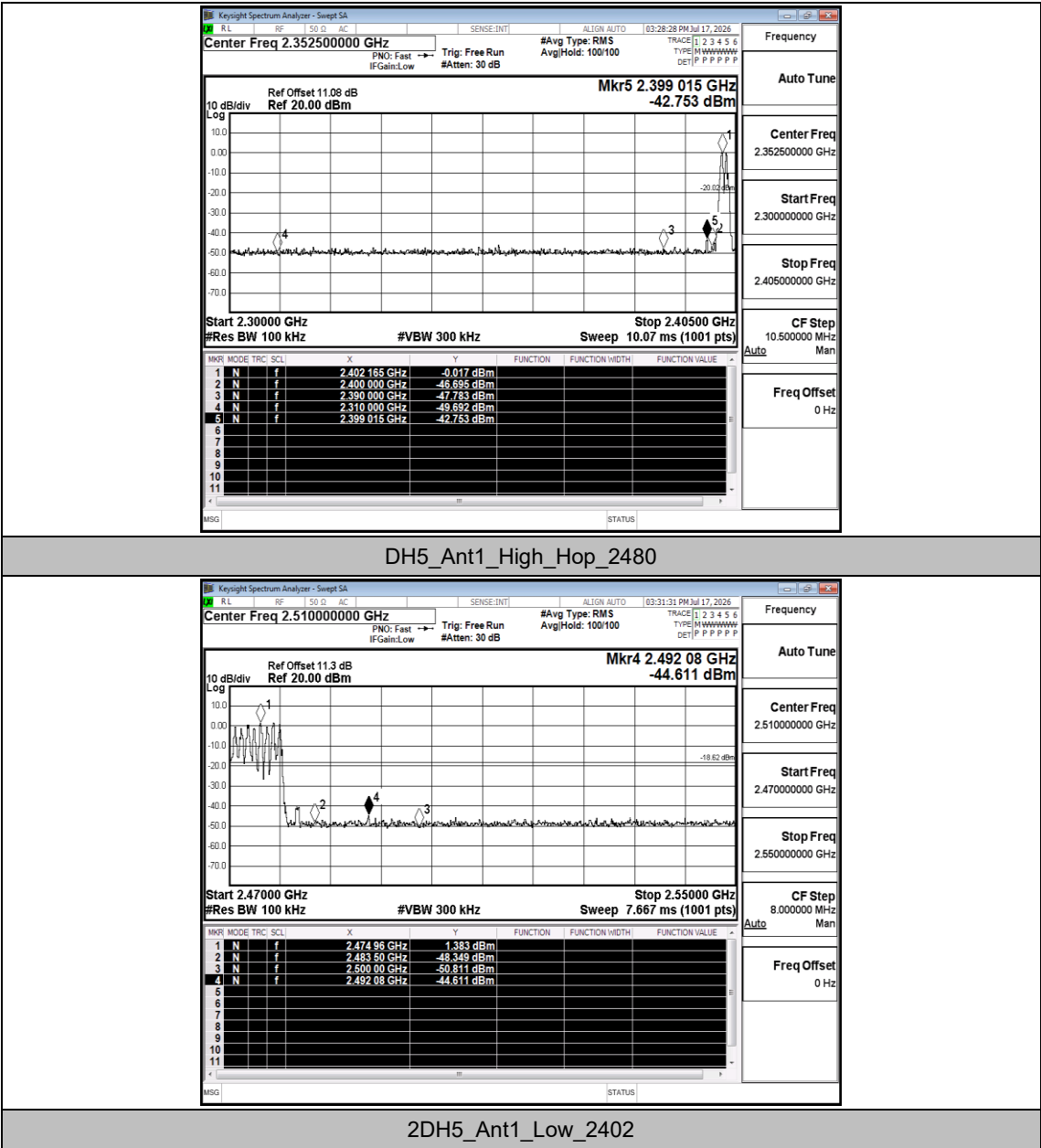
A.6 Band edge measurements

Test Result

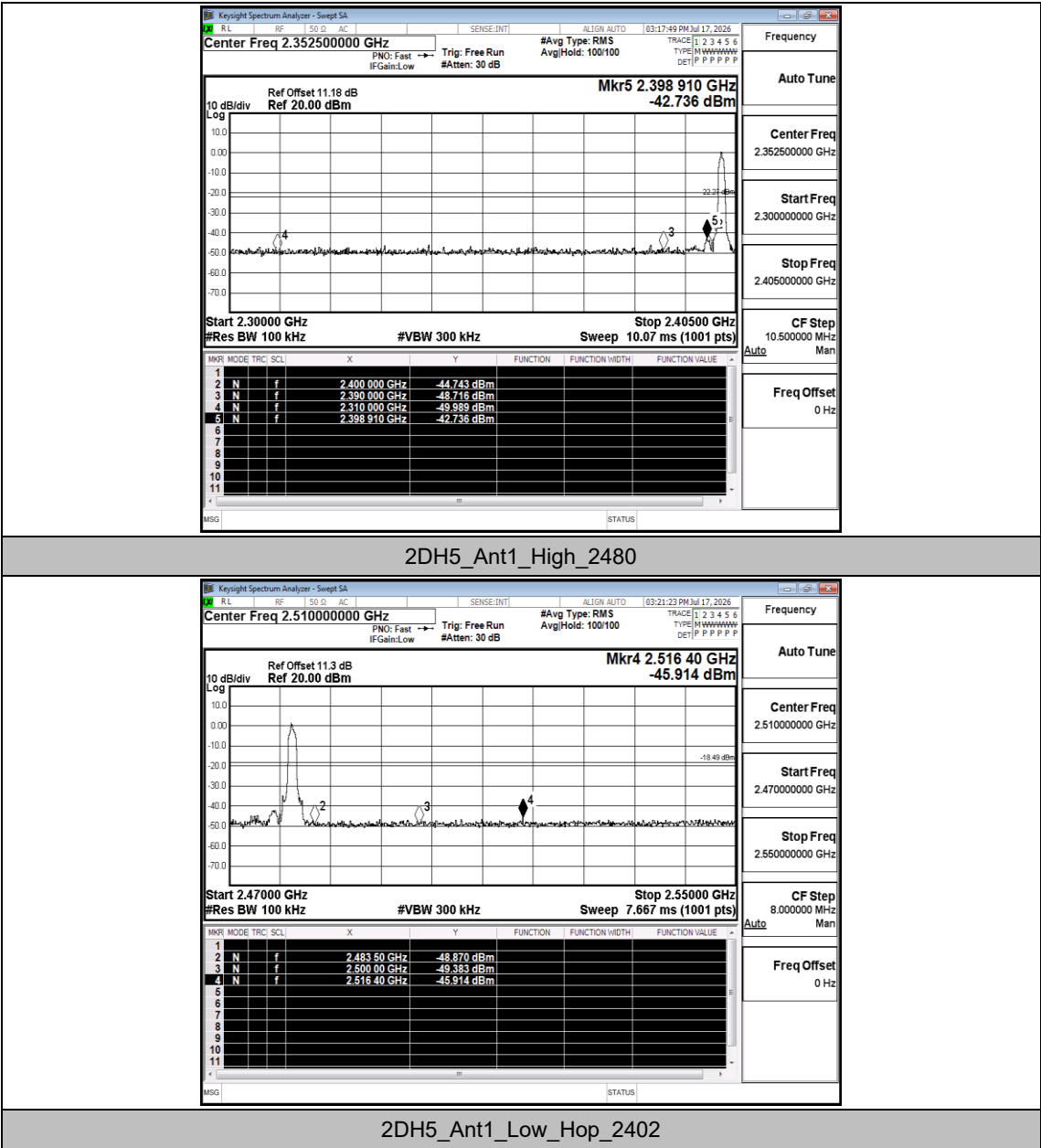
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.85	-41.03	≤ -19.15	PASS
		High	2480	0.91	-44.43	≤ -19.09	PASS
		Low	Hop_2402	-0.02	-42.75	≤ -20.02	PASS
		High	Hop_2480	1.38	-44.61	≤ -18.62	PASS
2DH5	Ant1	Low	2402	-2.27	-42.74	≤ -22.27	PASS
		High	2480	1.51	-45.91	≤ -18.49	PASS
		Low	Hop_2402	-0.99	-46.8	≤ -20.99	PASS
		High	Hop_2480	-0.82	-45.03	≤ -20.82	PASS
3DH5	Ant1	Low	2402	0.87	-42.11	≤ -19.13	PASS
		High	2480	0.36	-45.31	≤ -19.64	PASS
		Low	Hop_2402	-4.82	-46.6	≤ -24.82	PASS
		High	Hop_2480	0.12	-46.29	≤ -19.88	PASS

Test Graphs

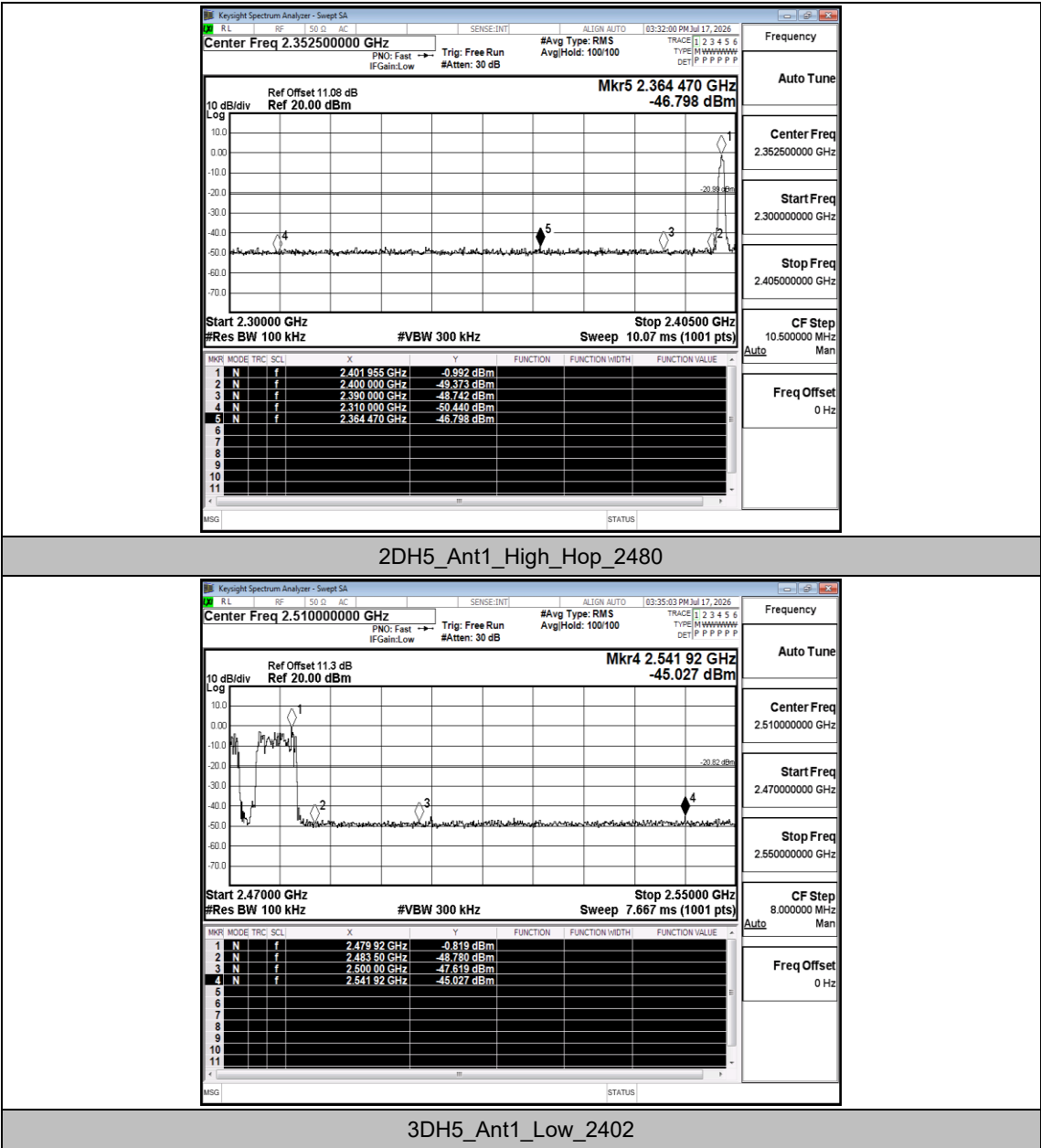




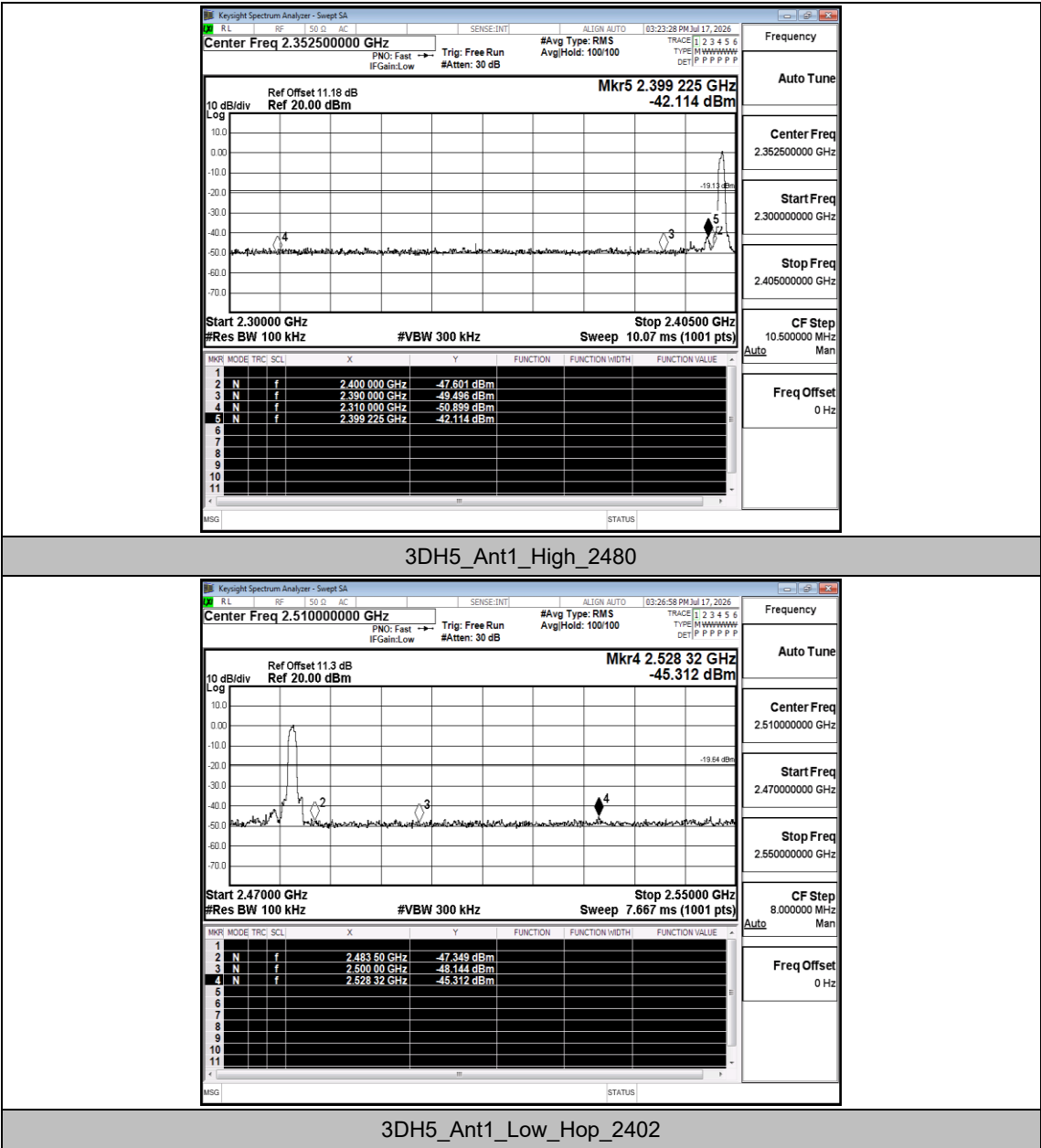
2DH5_Ant1_Low_2402



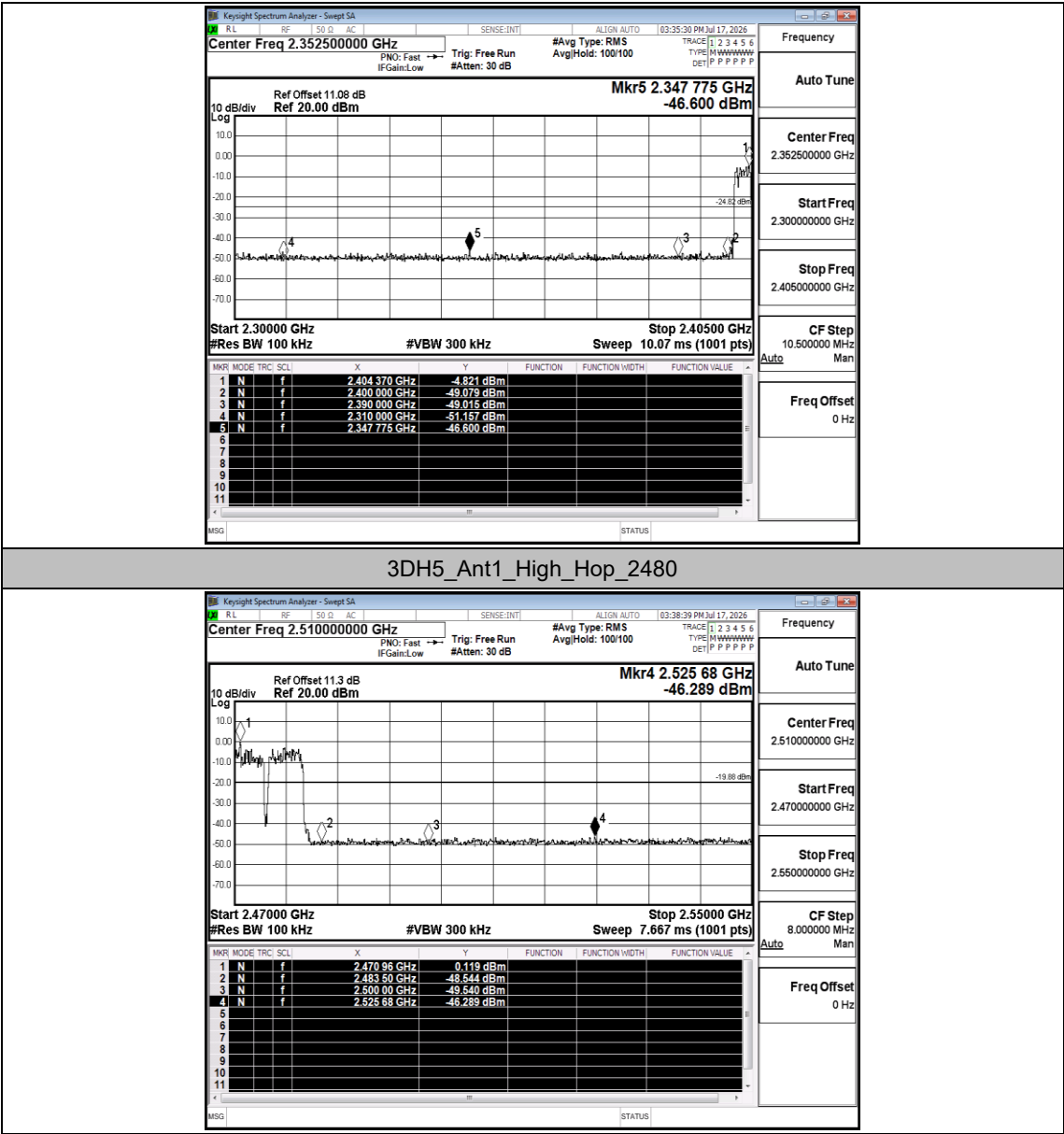
2DH5_Ant1_Low_Hop_2402



3DH5_Ant1_Low_2402



3DH5_Ant1_Low_Hop_2402



A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-70.06	≤-19.06	PASS
			1000~26500	0.94	-36.38	≤-19.06	PASS
		2441	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-69.2	≤-18.56	PASS
			1000~26500	1.44	-37.22	≤-18.56	PASS
		2480	Reference	1.49	1.49	---	PASS
			30~1000	1.49	-70.41	≤-18.51	PASS
			1000~26500	1.49	-36.35	≤-18.51	PASS
2DH5	Ant1	2402	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-70.52	≤-18.96	PASS
			1000~26500	1.04	-40.05	≤-18.96	PASS
		2441	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-70.04	≤-18.48	PASS
			1000~26500	1.52	-38.85	≤-18.48	PASS
		2480	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-69.98	≤-18.44	PASS
			1000~26500	1.56	-39.33	≤-18.44	PASS
3DH5	Ant1	2402	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-69.86	≤-19.07	PASS
			1000~26500	0.93	-37.98	≤-19.07	PASS
		2441	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-69.48	≤-18.55	PASS
			1000~26500	1.45	-37.69	≤-18.55	PASS
		2480	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-69.33	≤-18.52	PASS
			1000~26500	1.48	-38.84	≤-18.52	PASS

Test Graphs

