

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: HEADPHONE ASST

Test Model: BTHPV1FT52-CP-BLK

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

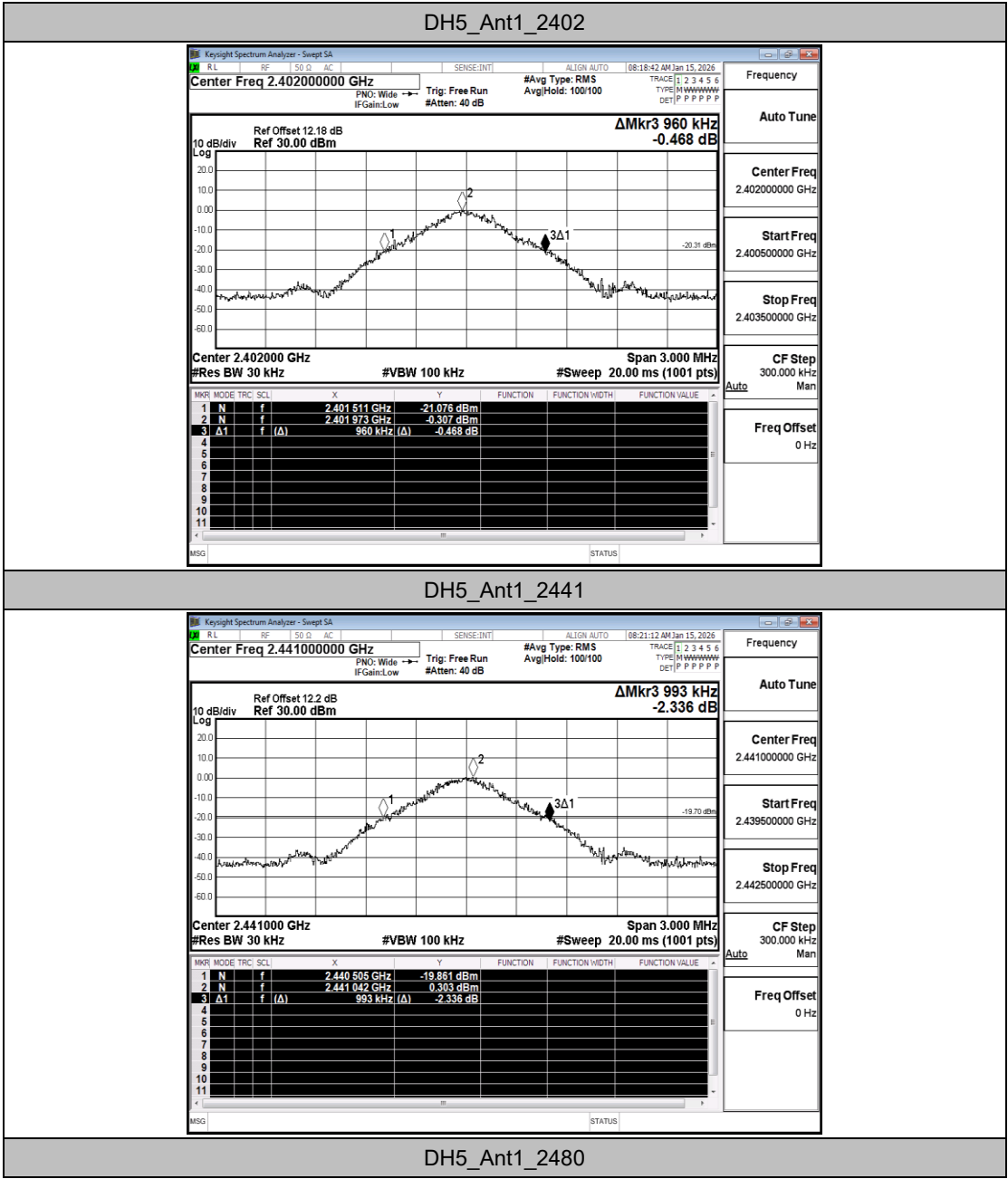
A.1 20dB Emission Bandwidth

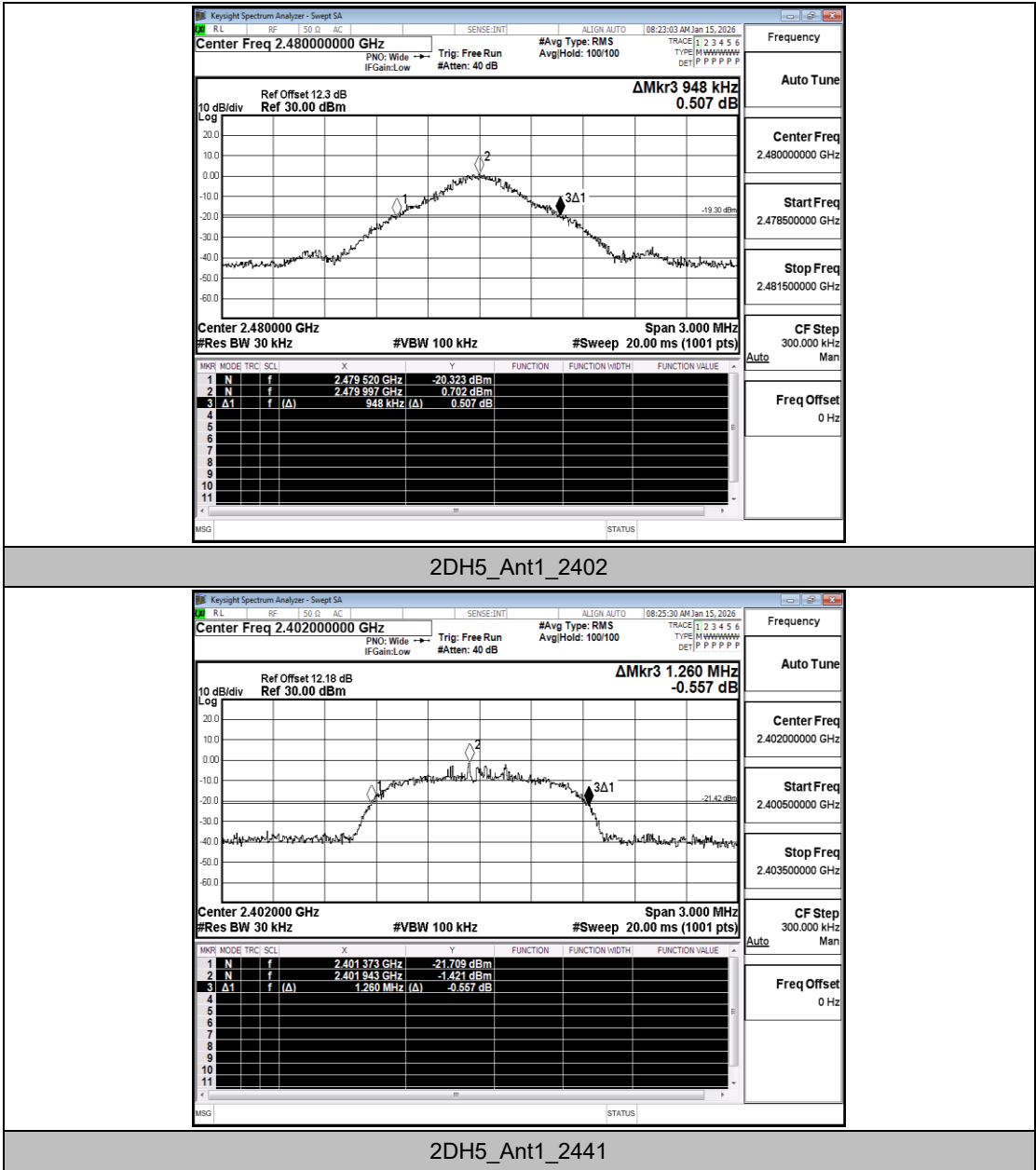
Test Result

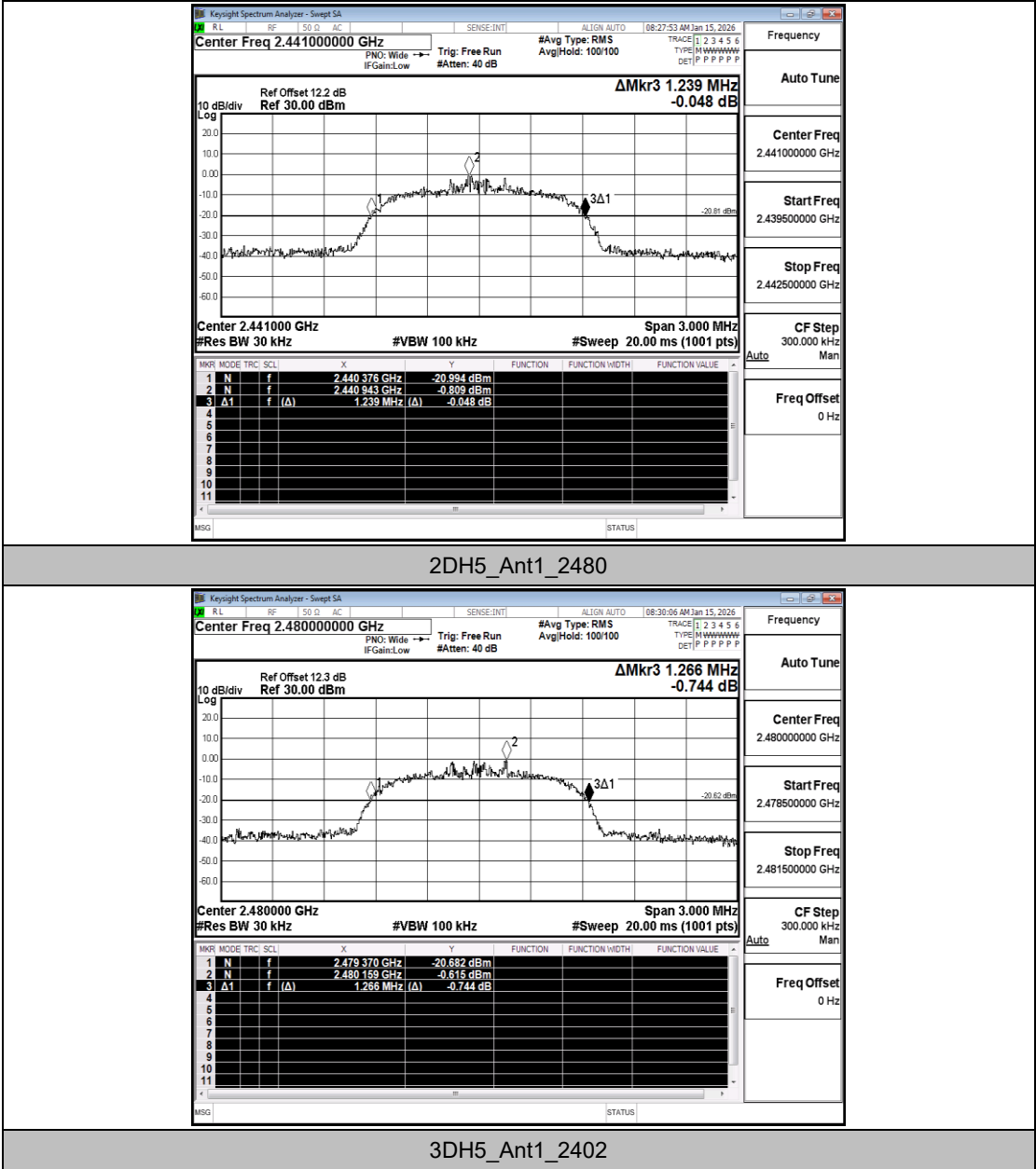
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.960	2401.511	2402.471	---	---
		2441	0.993	2440.505	2441.498	---	---
		2480	0.948	2479.520	2480.468	---	---
2DH5	Ant1	2402	1.260	2401.373	2402.633	---	---
		2441	1.239	2440.376	2441.615	---	---
		2480	1.266	2479.370	2480.636	---	---
3DH5	Ant1	2402	1.254	2401.370	2402.624	---	---
		2441	1.260	2440.370	2441.630	---	---
		2480	1.257	2479.370	2480.627	---	---

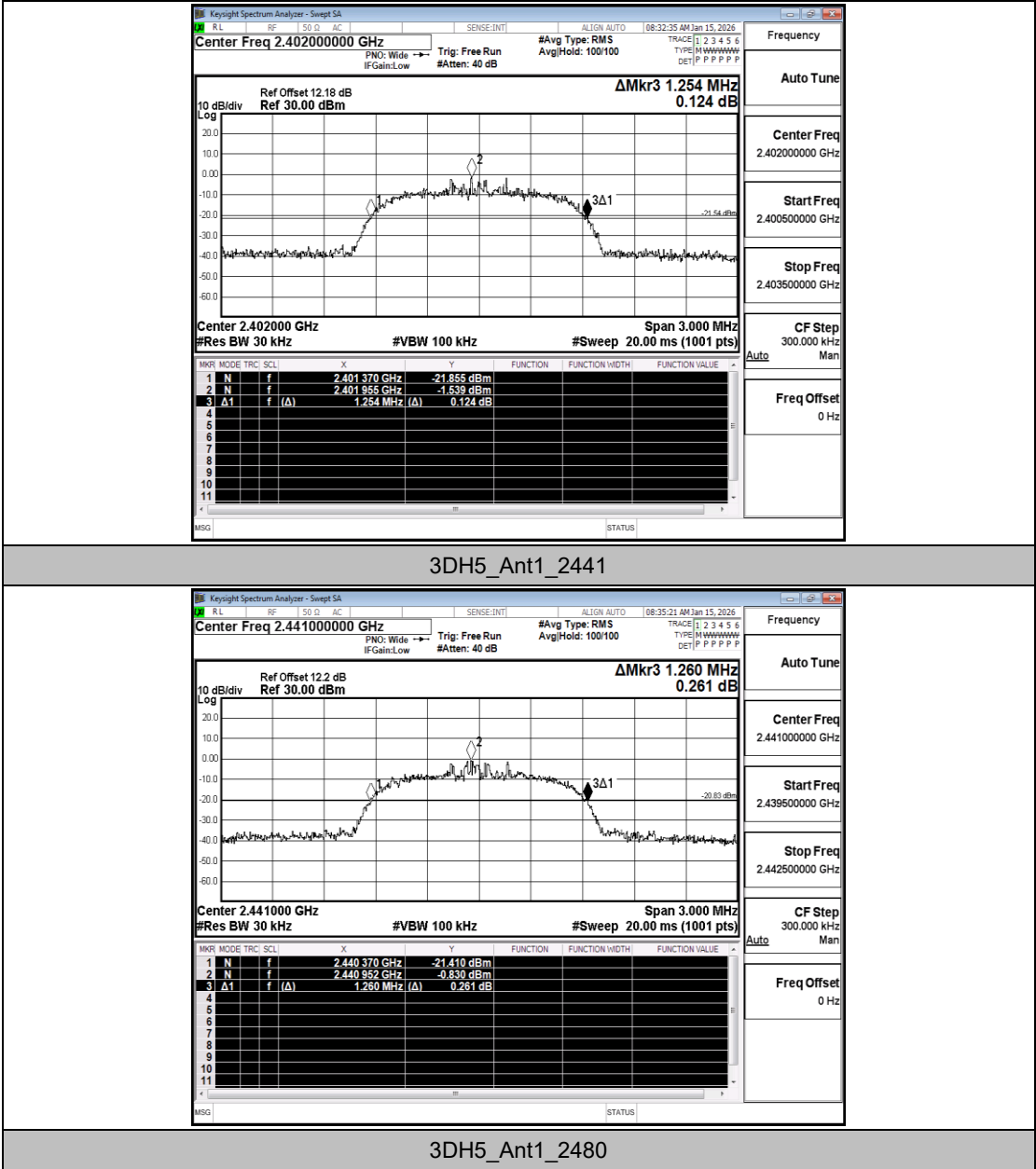
Note: offset=System attenuation +cable loss

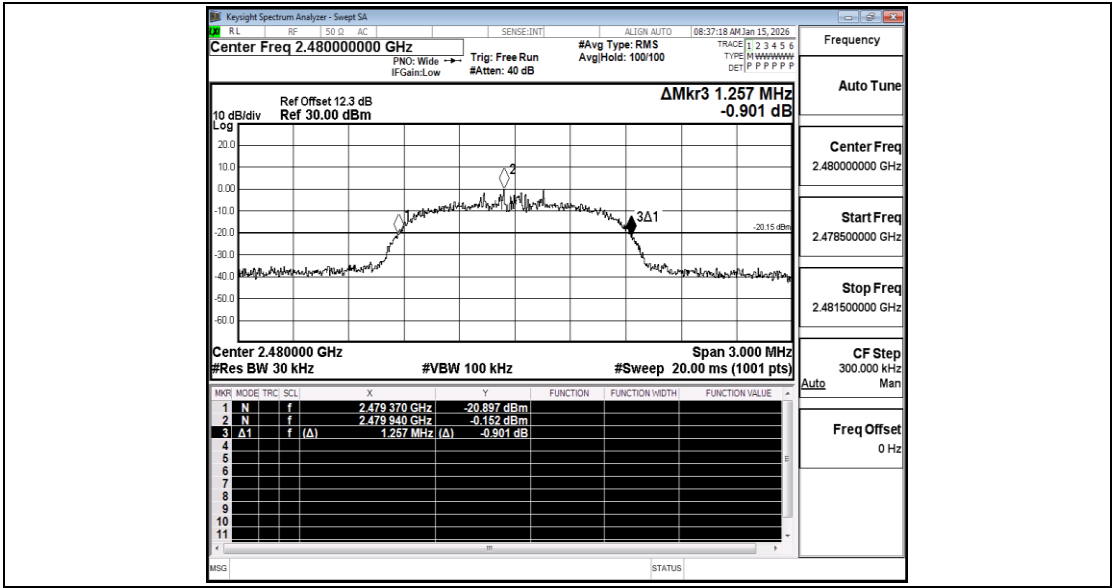
Test Graphs











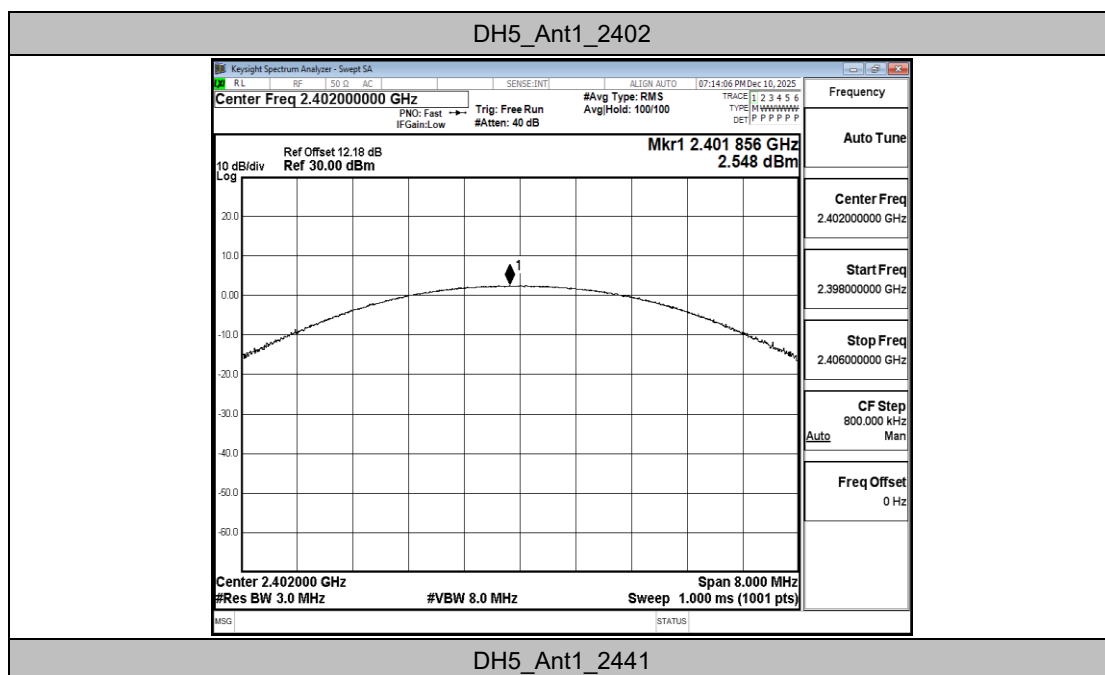
A.2 Maximum Peak conducted output power

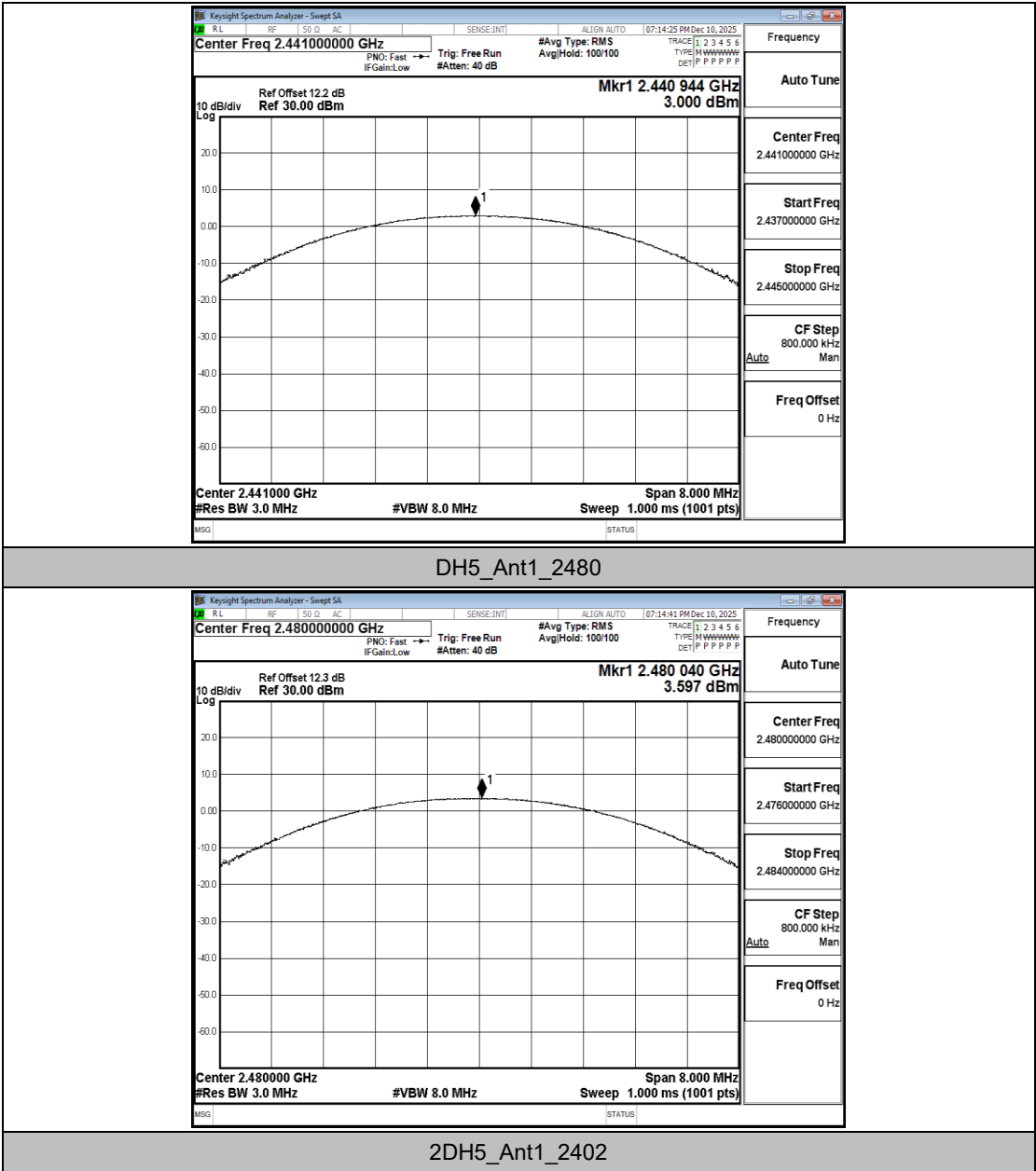
Test Result Peak

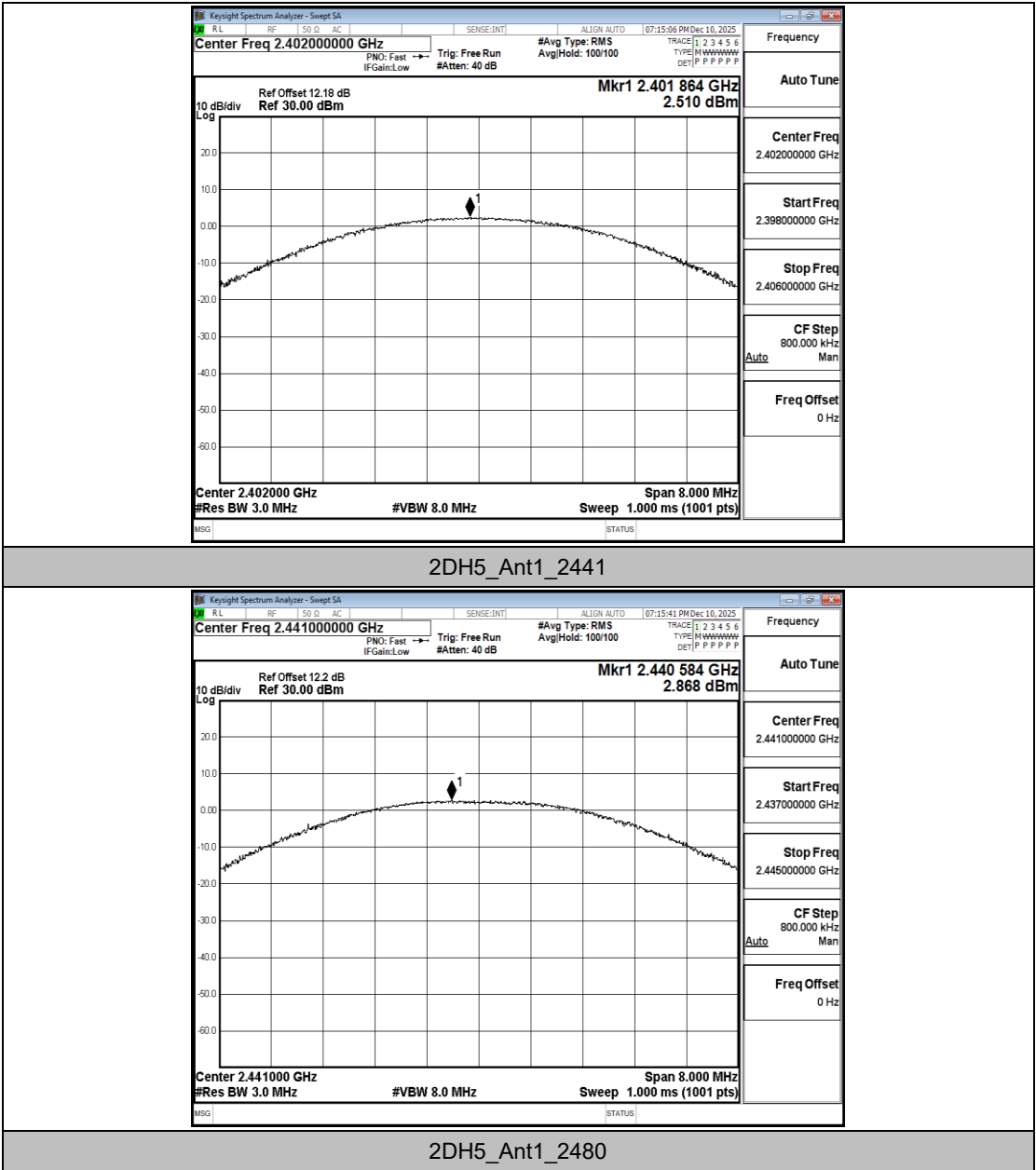
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.55	≤20.97	PASS
		2441	3.00	≤20.97	PASS
		2480	3.60	≤20.97	PASS
2DH5	Ant1	2402	2.51	≤20.97	PASS
		2441	2.87	≤20.97	PASS
		2480	3.35	≤20.97	PASS
3DH5	Ant1	2402	2.45	≤20.97	PASS
		2441	2.83	≤20.97	PASS
		2480	3.42	≤20.97	PASS

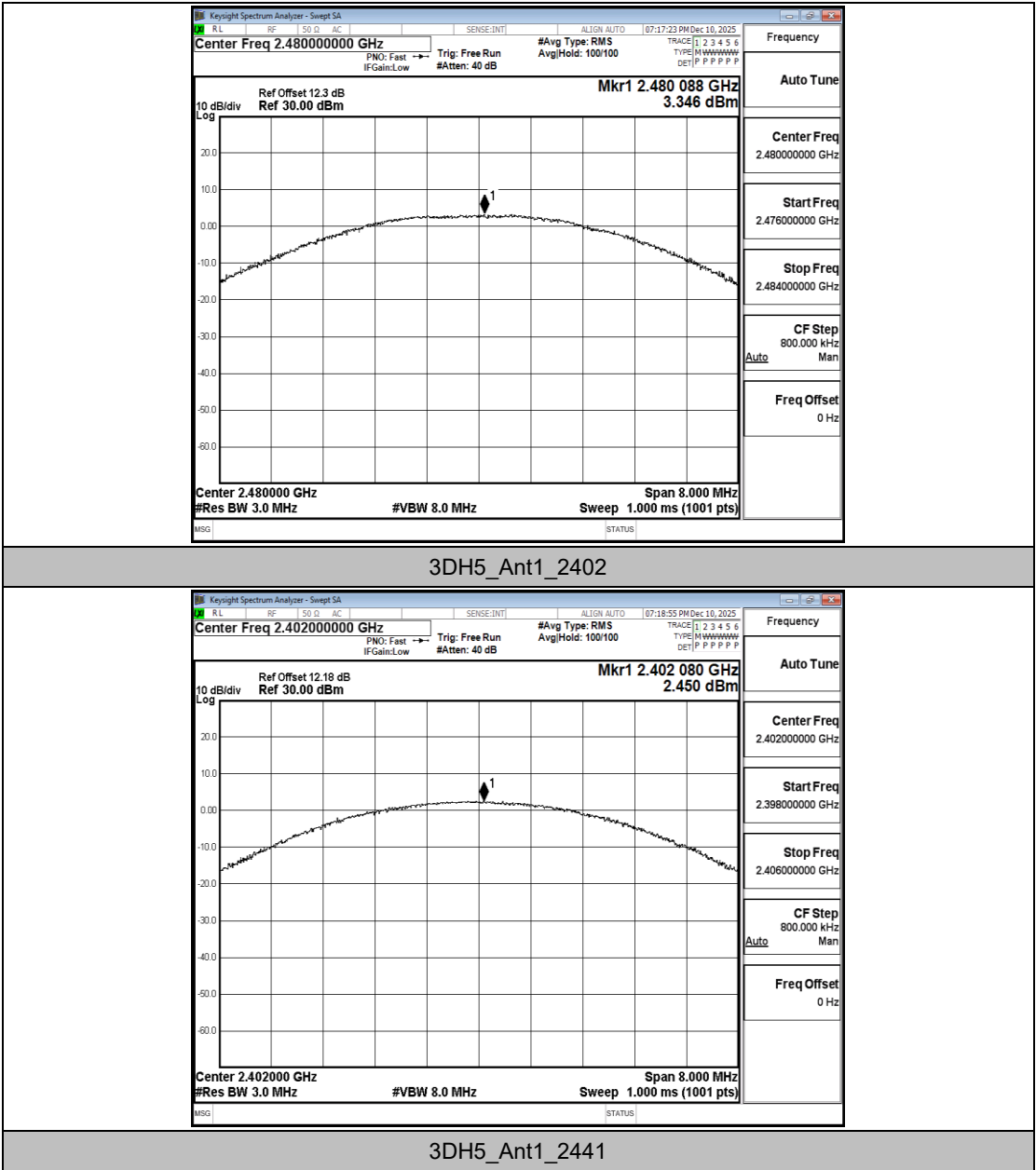
Note: offset=System attenuation +cabel loss

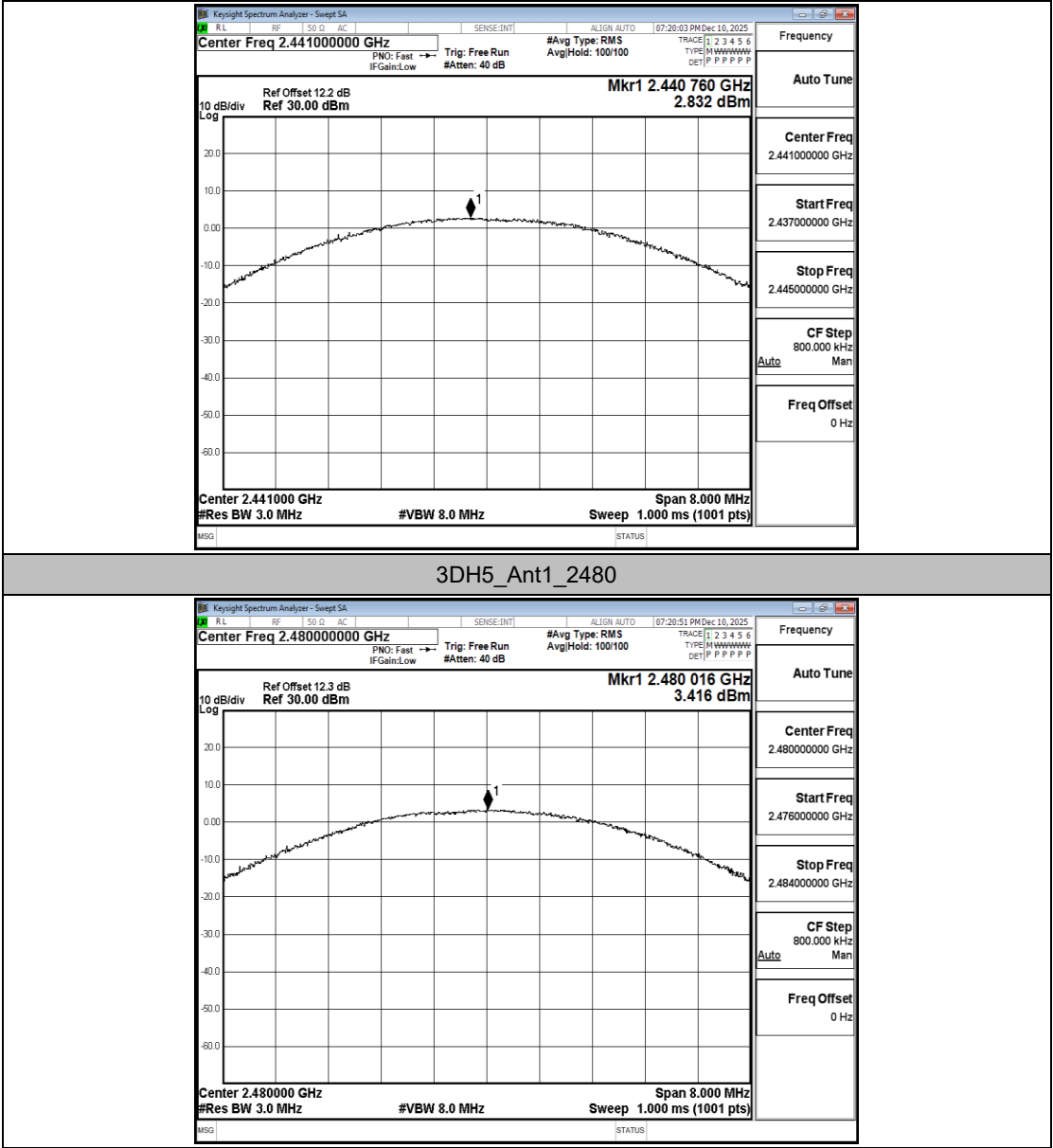
Test Graphs











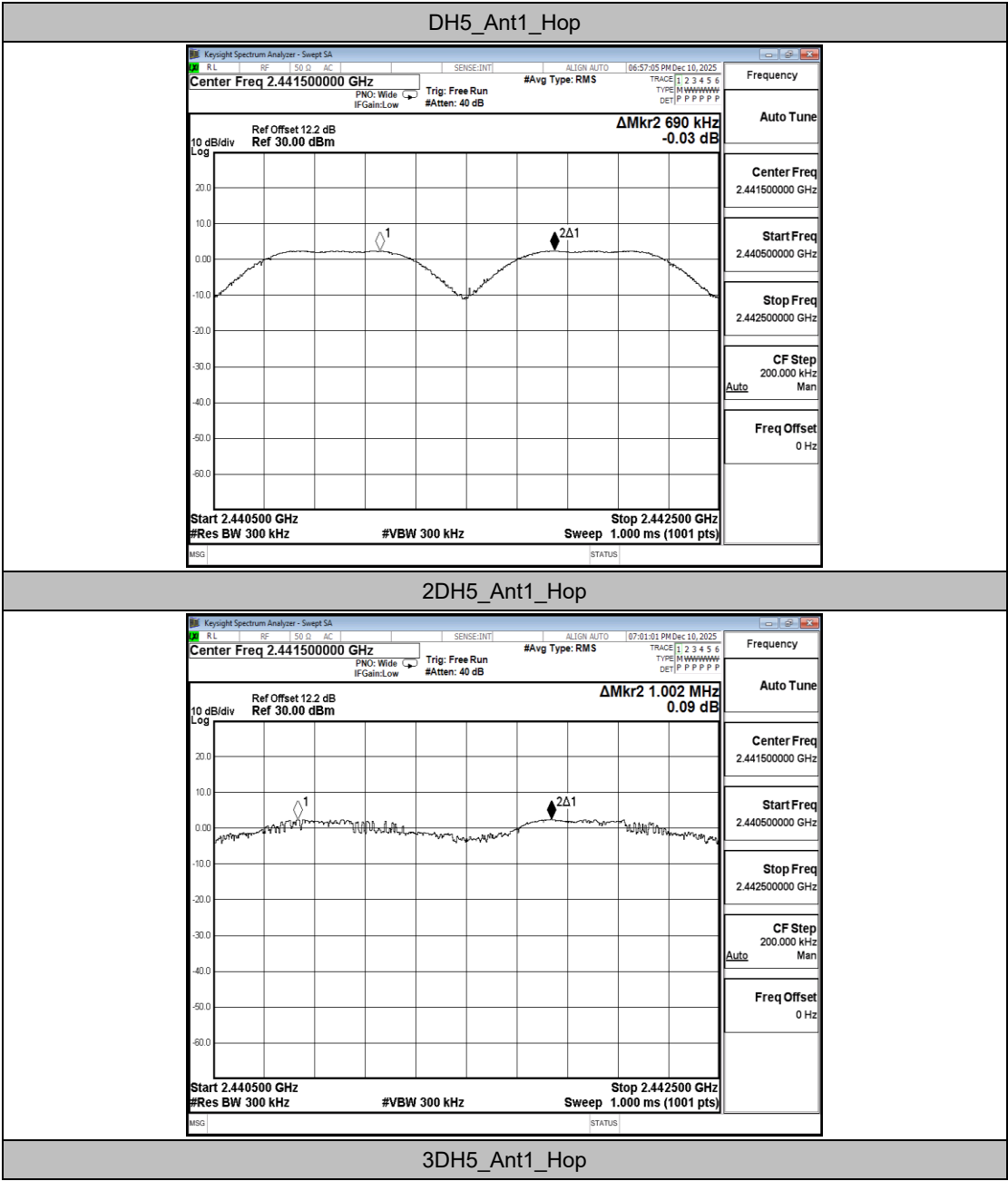
A.3 Carrier frequency separation

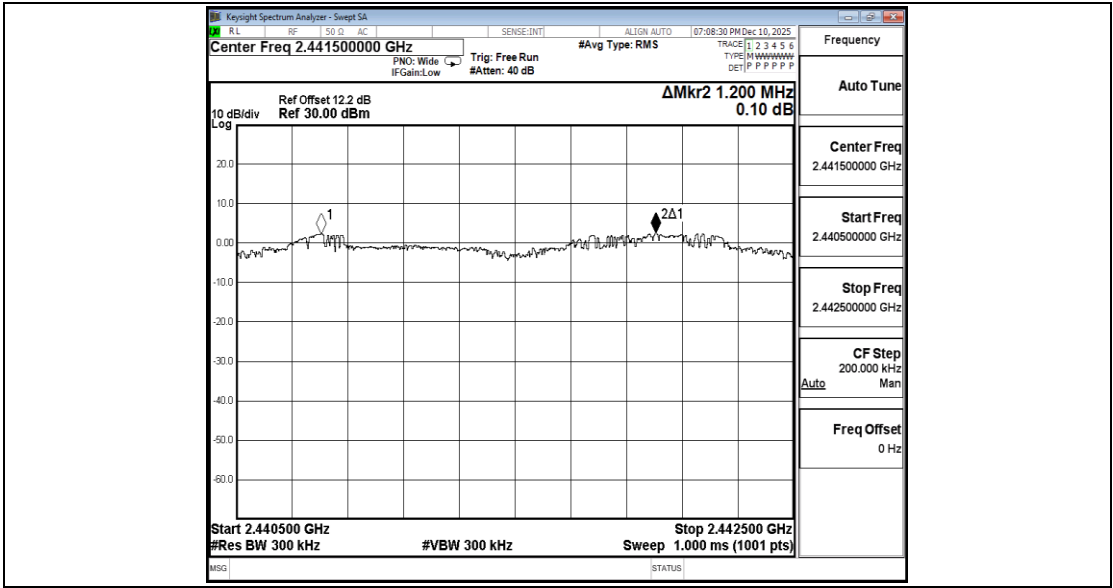
Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.69	≥ 0.662	PASS
2DH5	Ant1	Hop	1.002	≥ 0.844	PASS
3DH5	Ant1	Hop	1.2	≥ 0.840	PASS

Note: offset=System attenuation +cable loss

Test Graphs





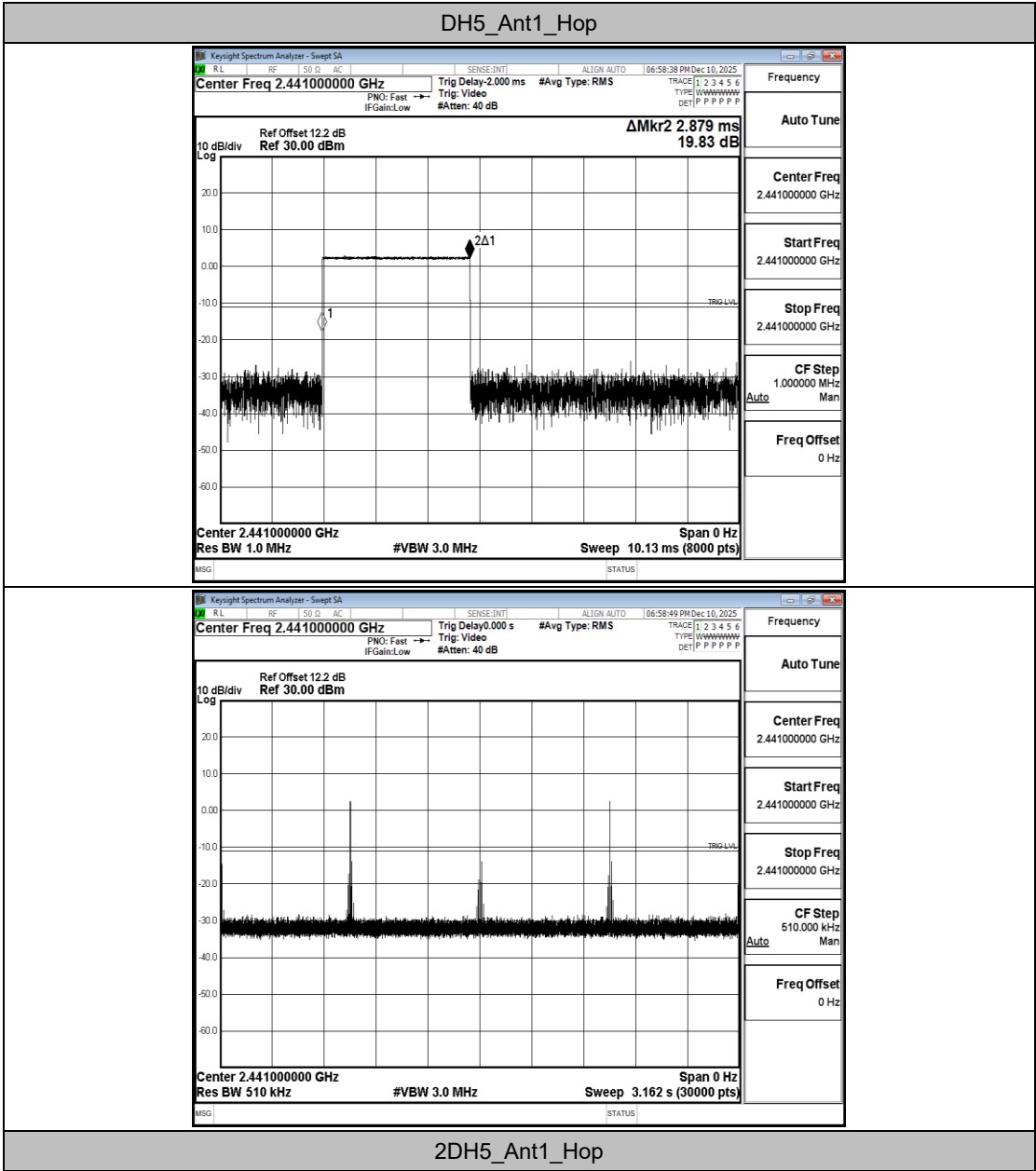
A.4 Time of occupancy

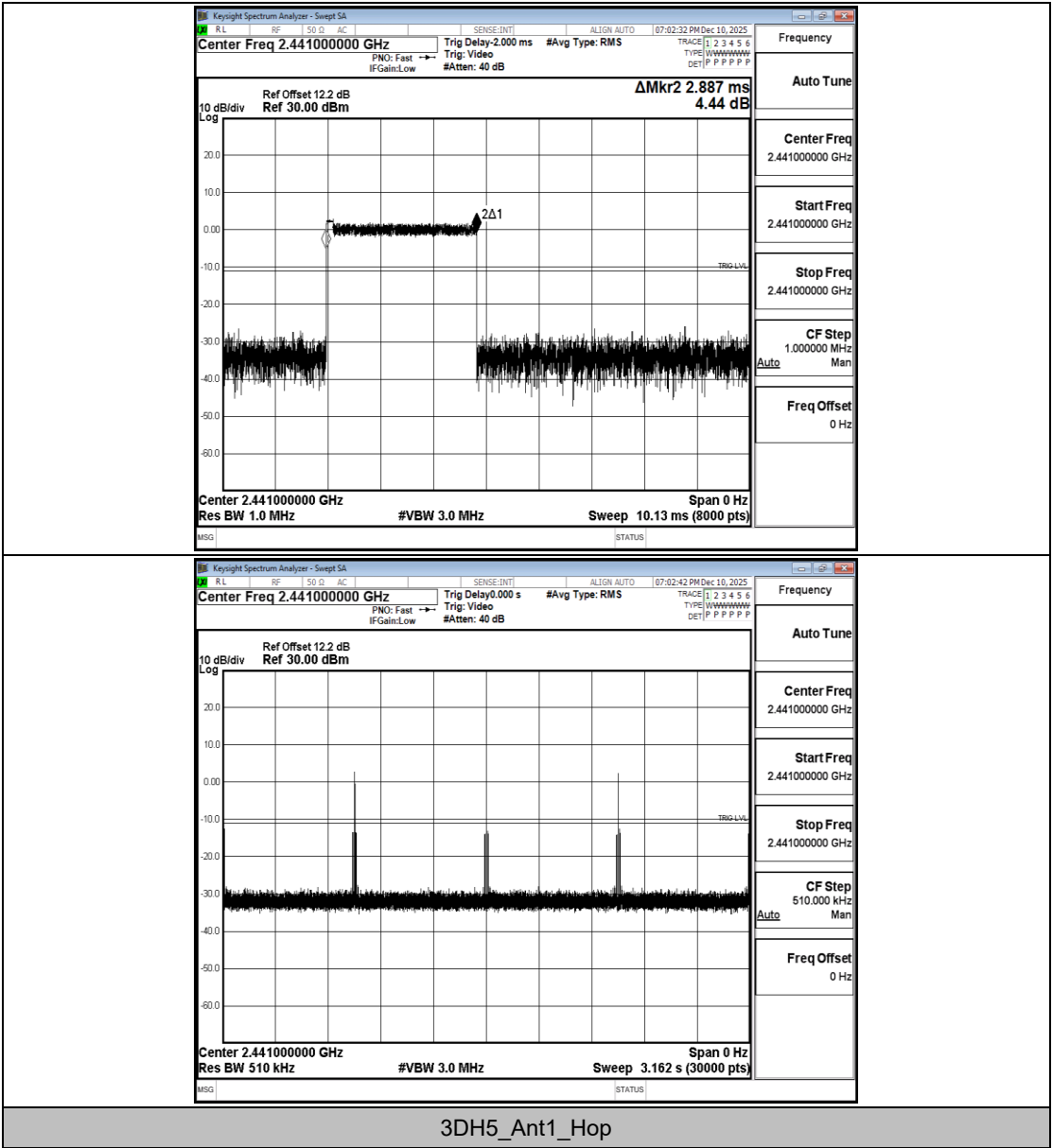
Test Result

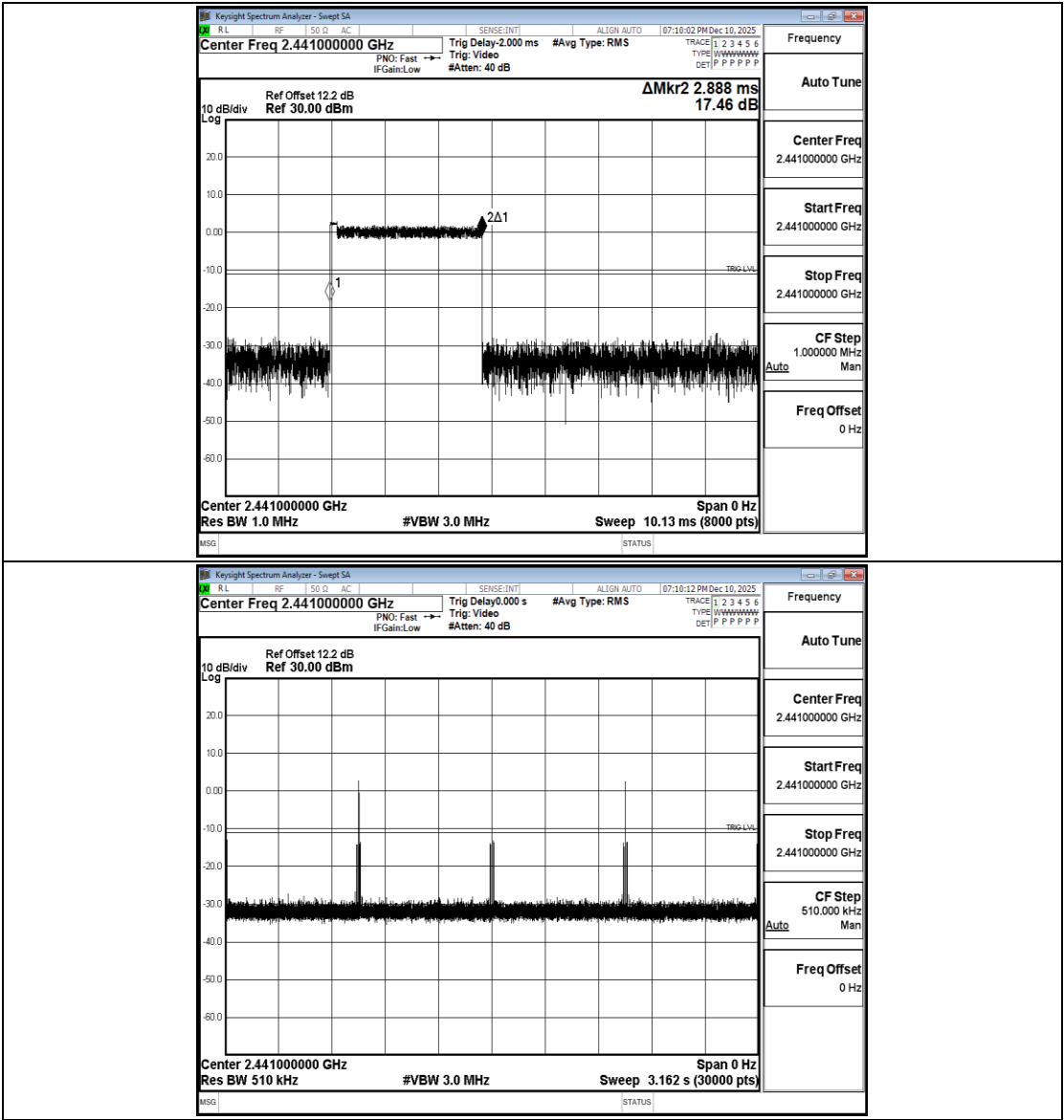
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.879	40	0.115	≤0.4	PASS
2DH5	Ant1	Hop	2.887	40	0.115	≤0.4	PASS
3DH5	Ant1	Hop	2.888	40	0.116	≤0.4	PASS

Note: offset=System attenuation +cable loss

Test Graphs







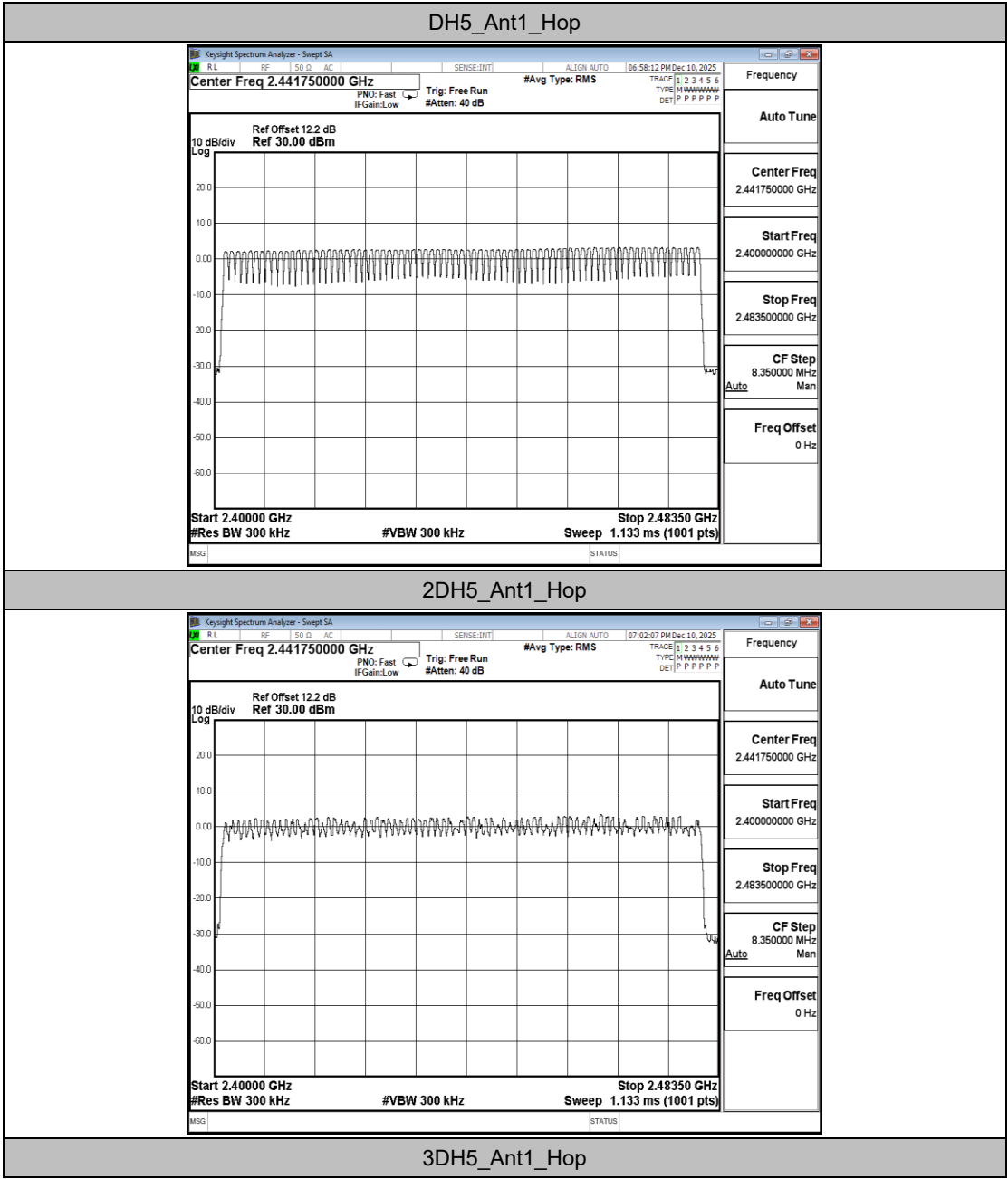
A.5 Number of hopping channels

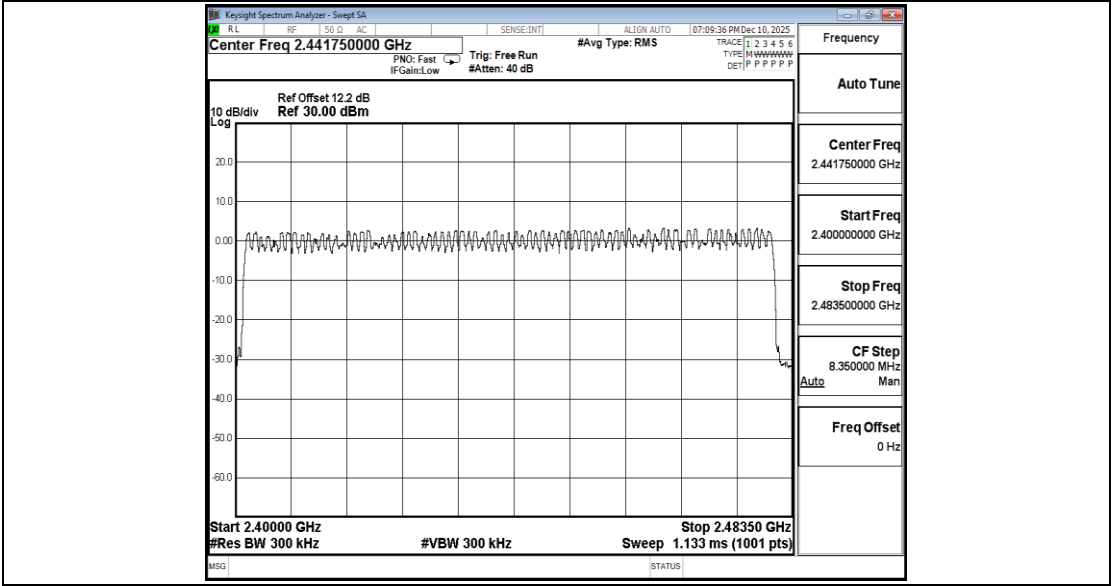
Test Result

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

Note: offset=System attenuation +cable loss

Test Graphs





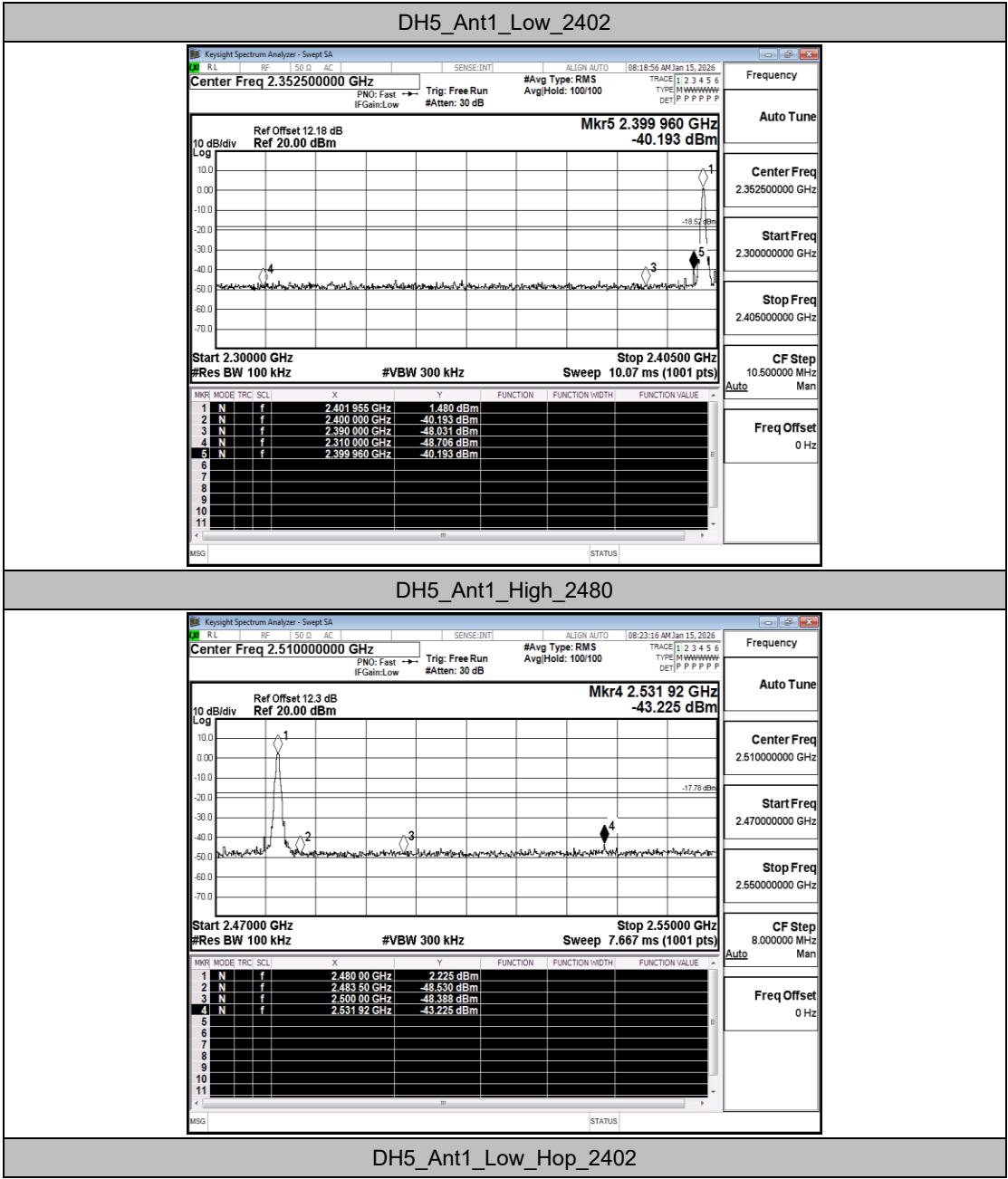
A.6 Band edge measurements

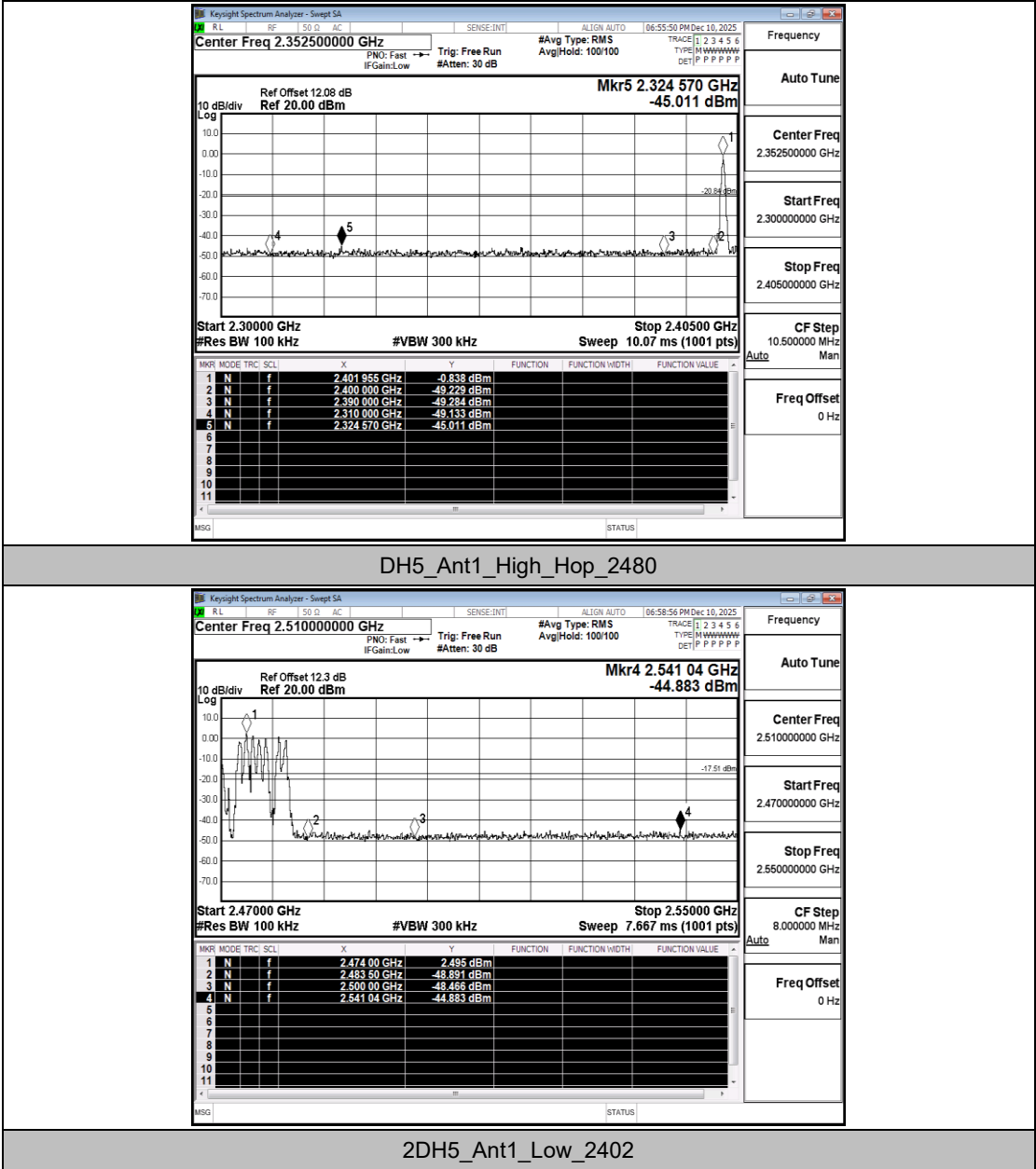
Test Result

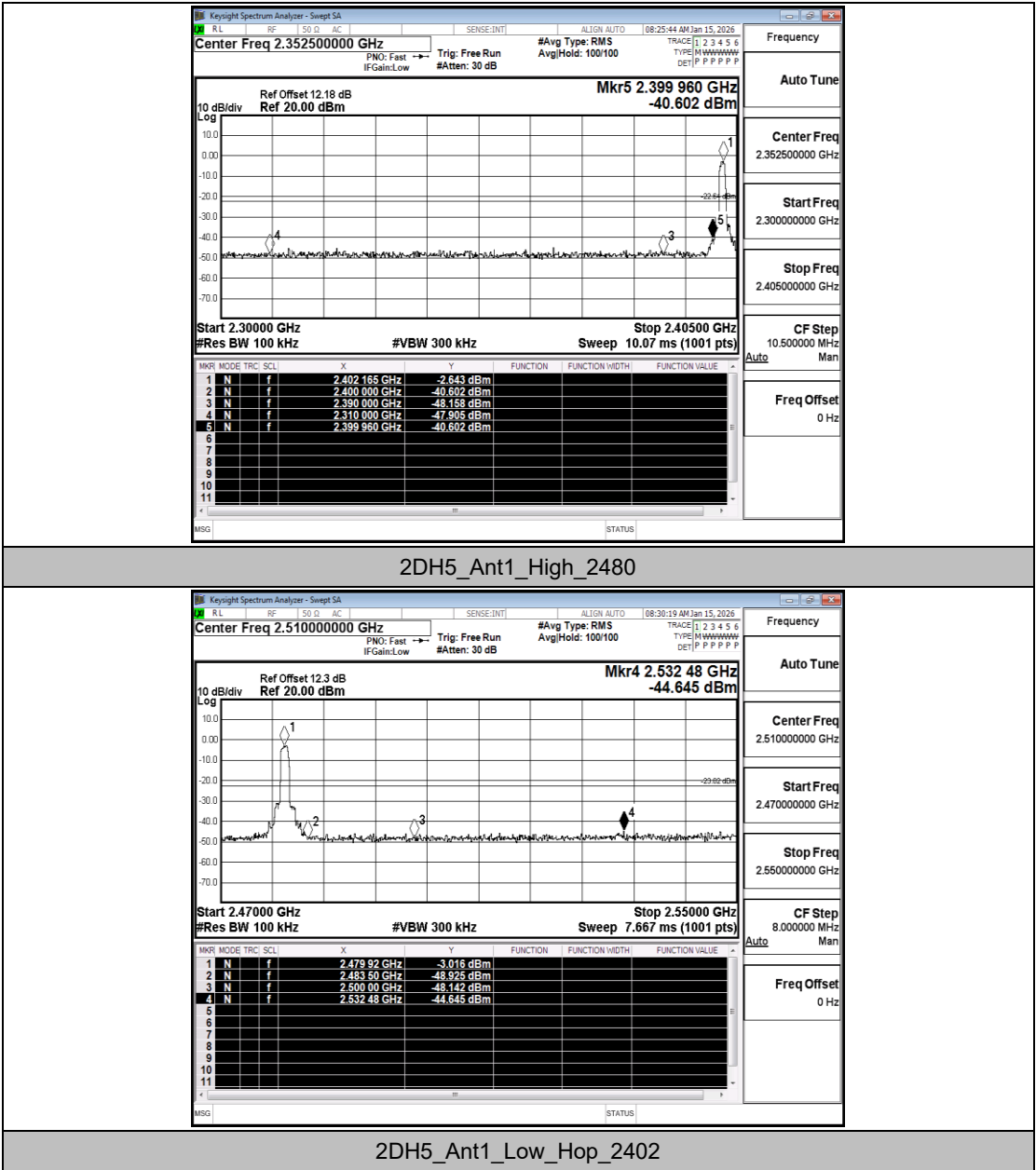
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.48	-40.19	≤-18.52	PASS
		High	2480	2.23	-43.23	≤-17.78	PASS
		Low	Hop_2402	-0.84	-45.01	≤-20.84	PASS
		High	Hop_2480	2.50	-44.88	≤-17.51	PASS
2DH5	Ant1	Low	2402	-2.64	-40.6	≤-22.64	PASS
		High	2480	-3.02	-44.65	≤-23.02	PASS
		Low	Hop_2402	-4.91	-45.51	≤-24.91	PASS
		High	Hop_2480	-2.66	-44.97	≤-22.66	PASS
3DH5	Ant1	Low	2402	-3.17	-39.72	≤-23.17	PASS
		High	2480	1.89	-44.48	≤-18.11	PASS
		Low	Hop_2402	-5.53	-45.19	≤-25.53	PASS
		High	Hop_2480	-2.04	-45.12	≤-22.04	PASS

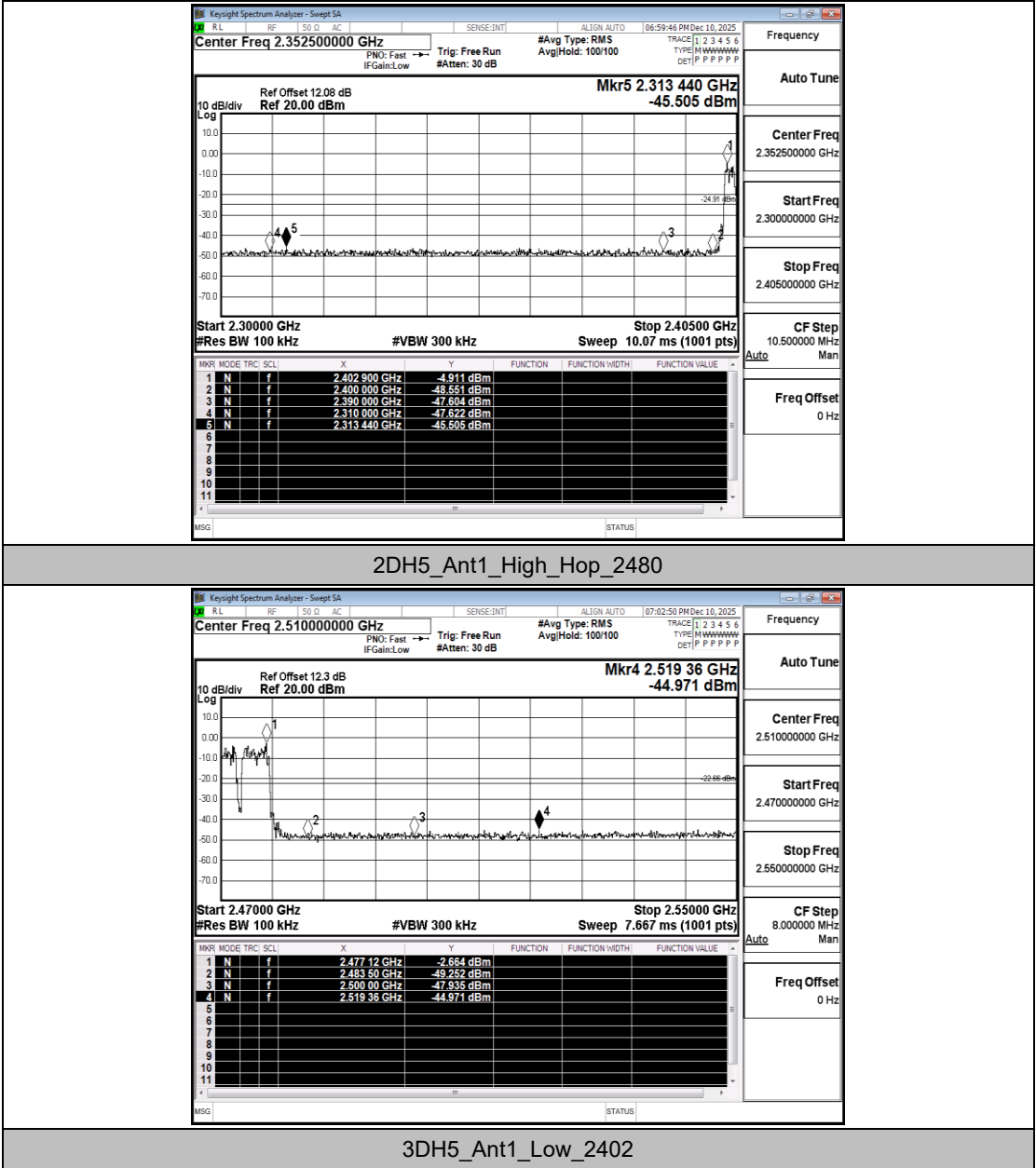
Note: offset=System attenuation +cabel loss

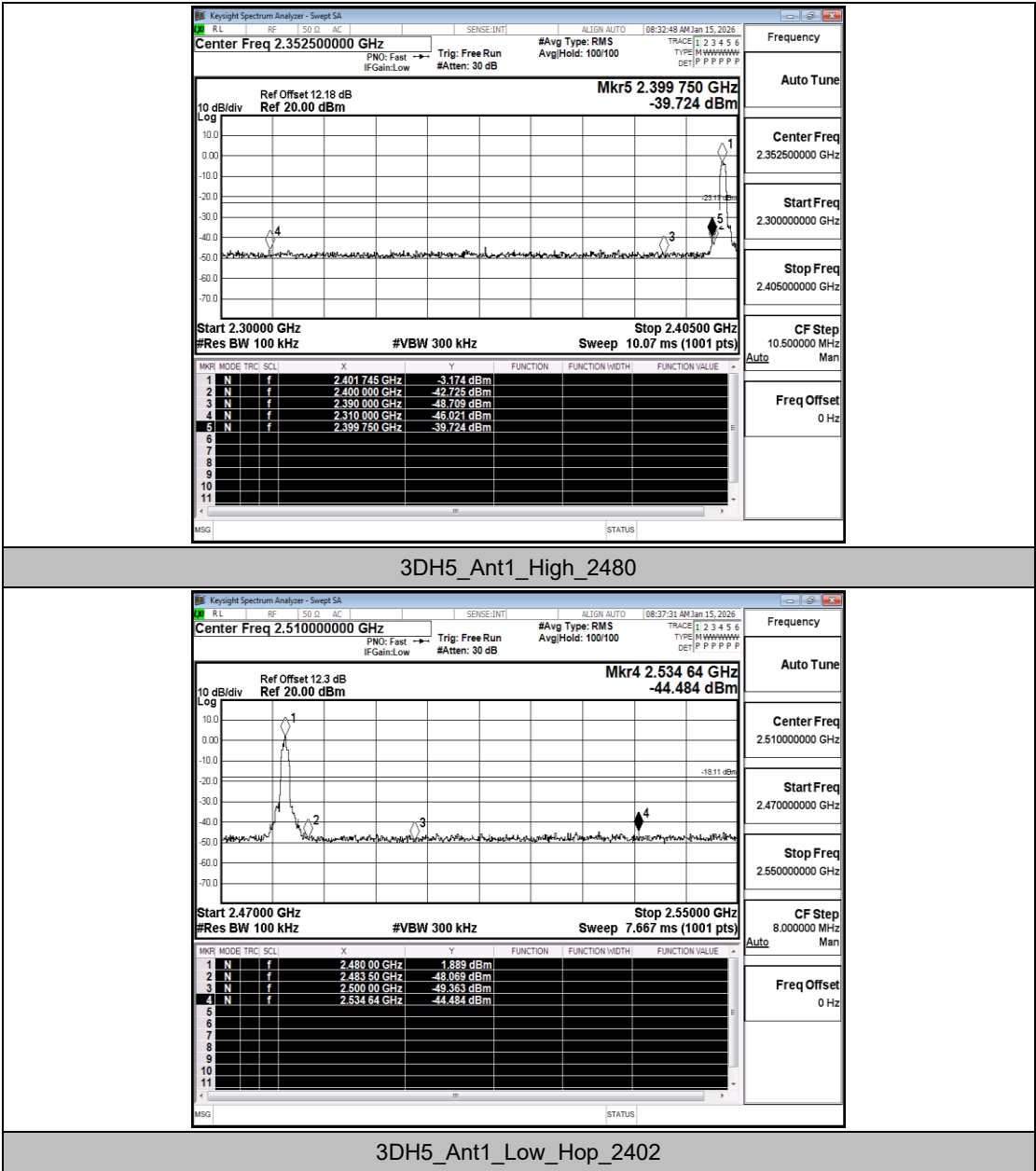
Test Graphs

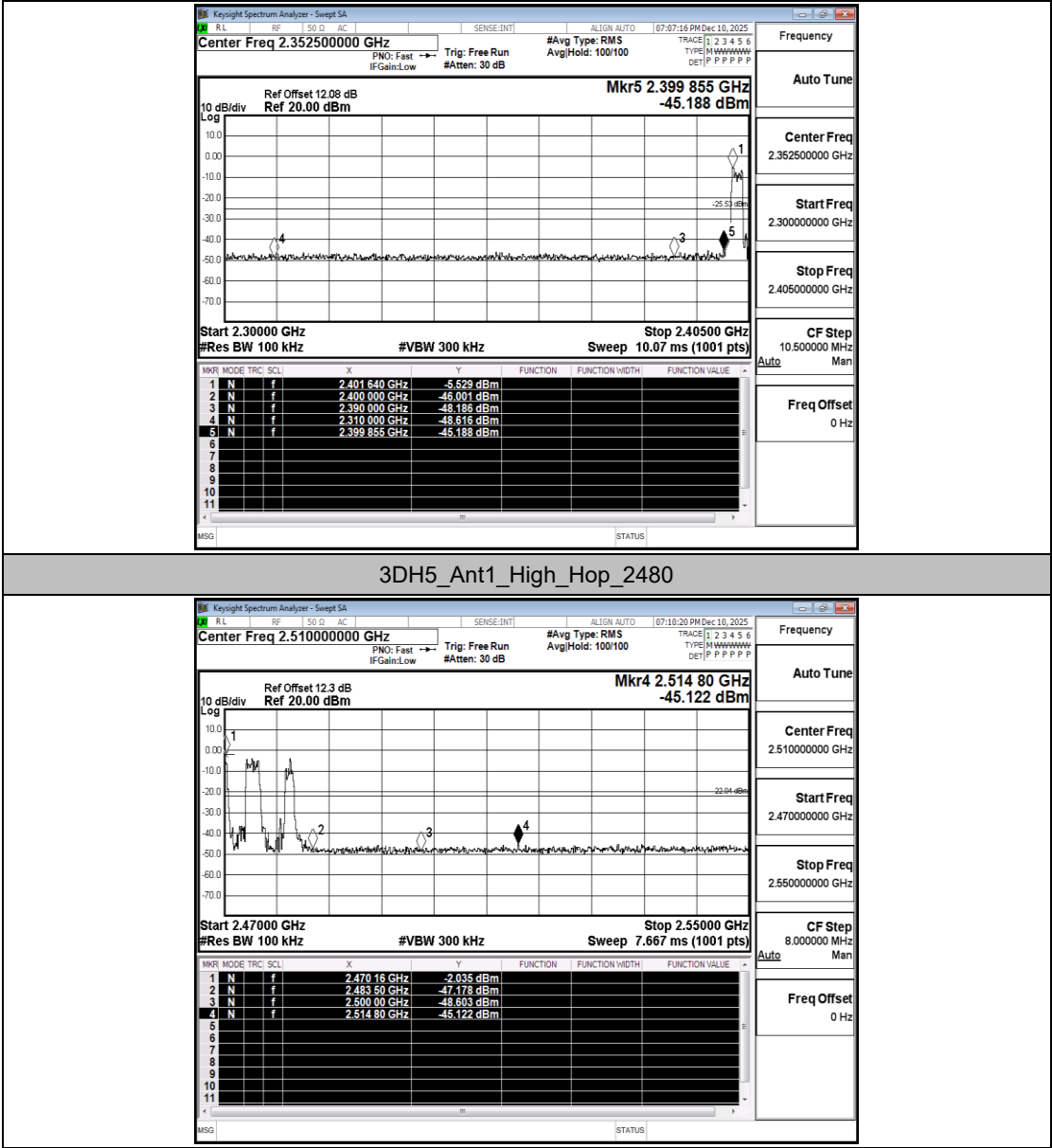












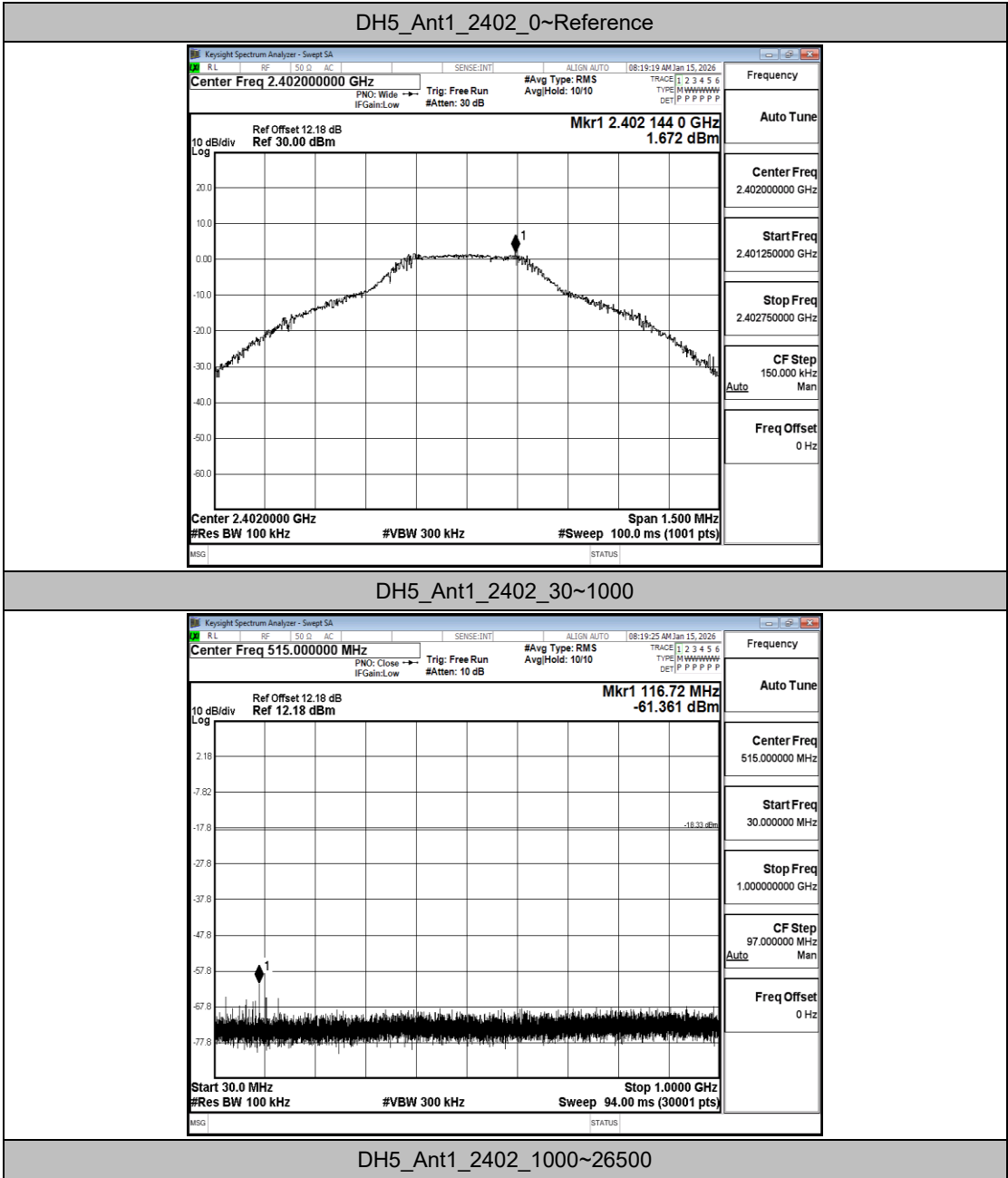
A.7 Conducted Spurious Emission

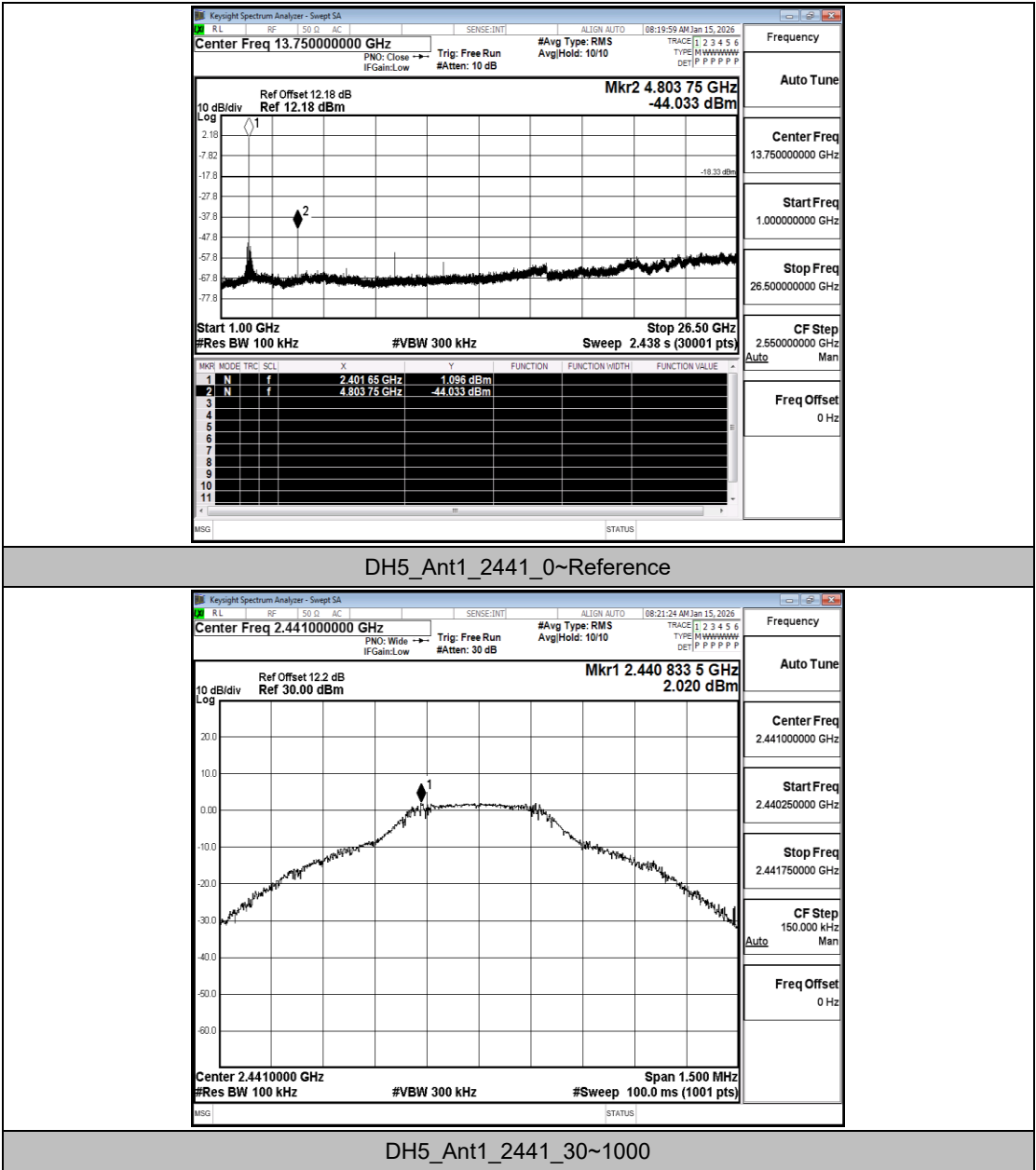
Test Result

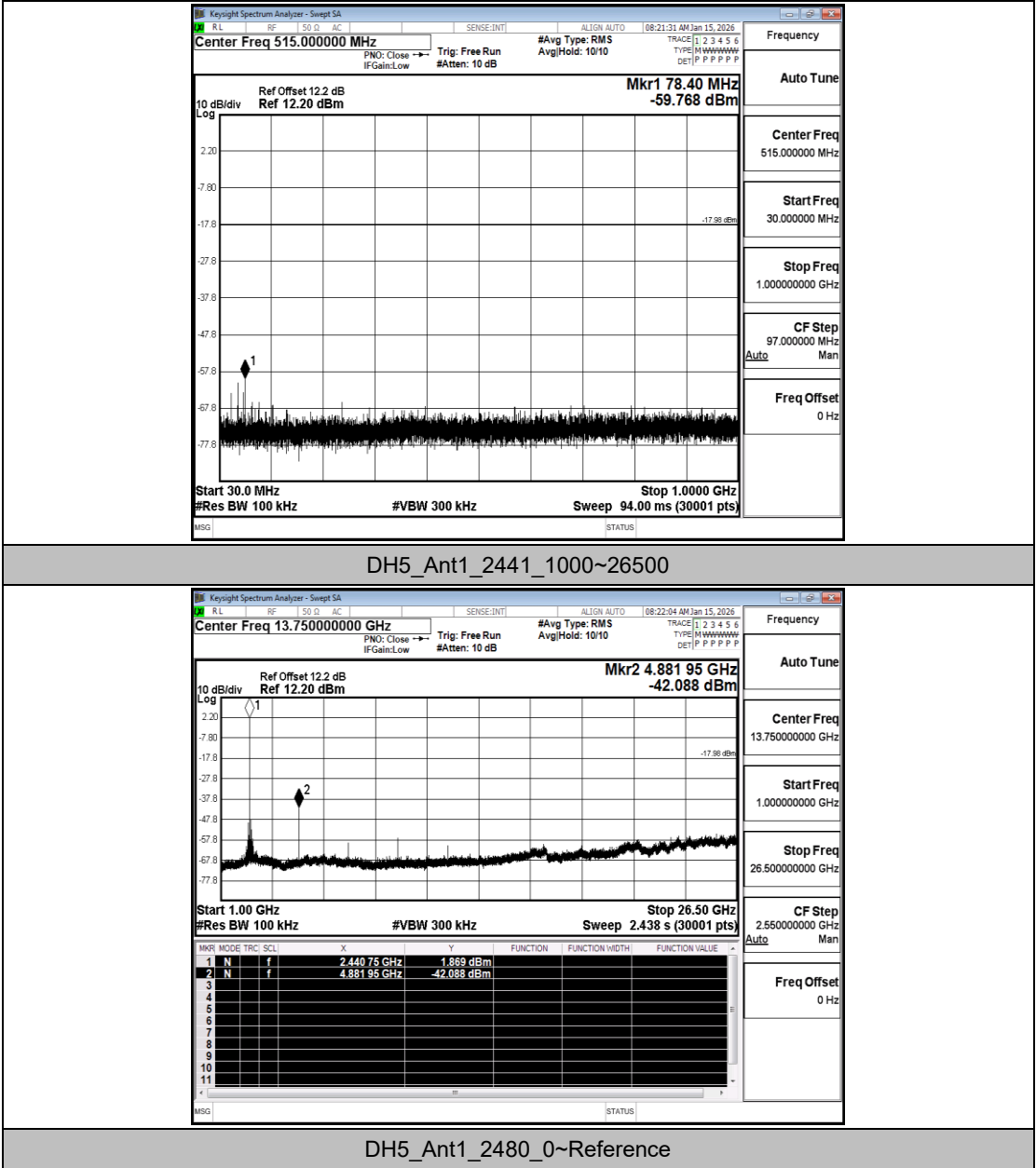
TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-61.36	≤-18.33	PASS
			1000~26500	1.67	-44.03	≤-18.33	PASS
		2441	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-59.77	≤-17.98	PASS
			1000~26500	2.02	-42.09	≤-17.98	PASS
		2480	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-61.04	≤-17.37	PASS
			1000~26500	2.63	-41.19	≤-17.37	PASS
2DH5	Ant1	2402	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-50.4	≤-18.47	PASS
			1000~26500	1.53	-46.38	≤-18.47	PASS
		2441	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-60.41	≤-17.81	PASS
			1000~26500	2.19	-49.52	≤-17.81	PASS
		2480	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-51.72	≤-17.16	PASS
			1000~26500	2.84	-46.63	≤-17.16	PASS
3DH5	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-55.63	≤-18.5	PASS
			1000~26500	1.50	-54.38	≤-18.5	PASS
		2441	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-63.39	≤-17.91	PASS
			1000~26500	2.09	-46.7	≤-17.91	PASS
		2480	Reference	2.72	2.72	---	PASS
			30~1000	2.72	-41.11	≤-17.28	PASS
			1000~26500	2.72	-42.17	≤-17.28	PASS

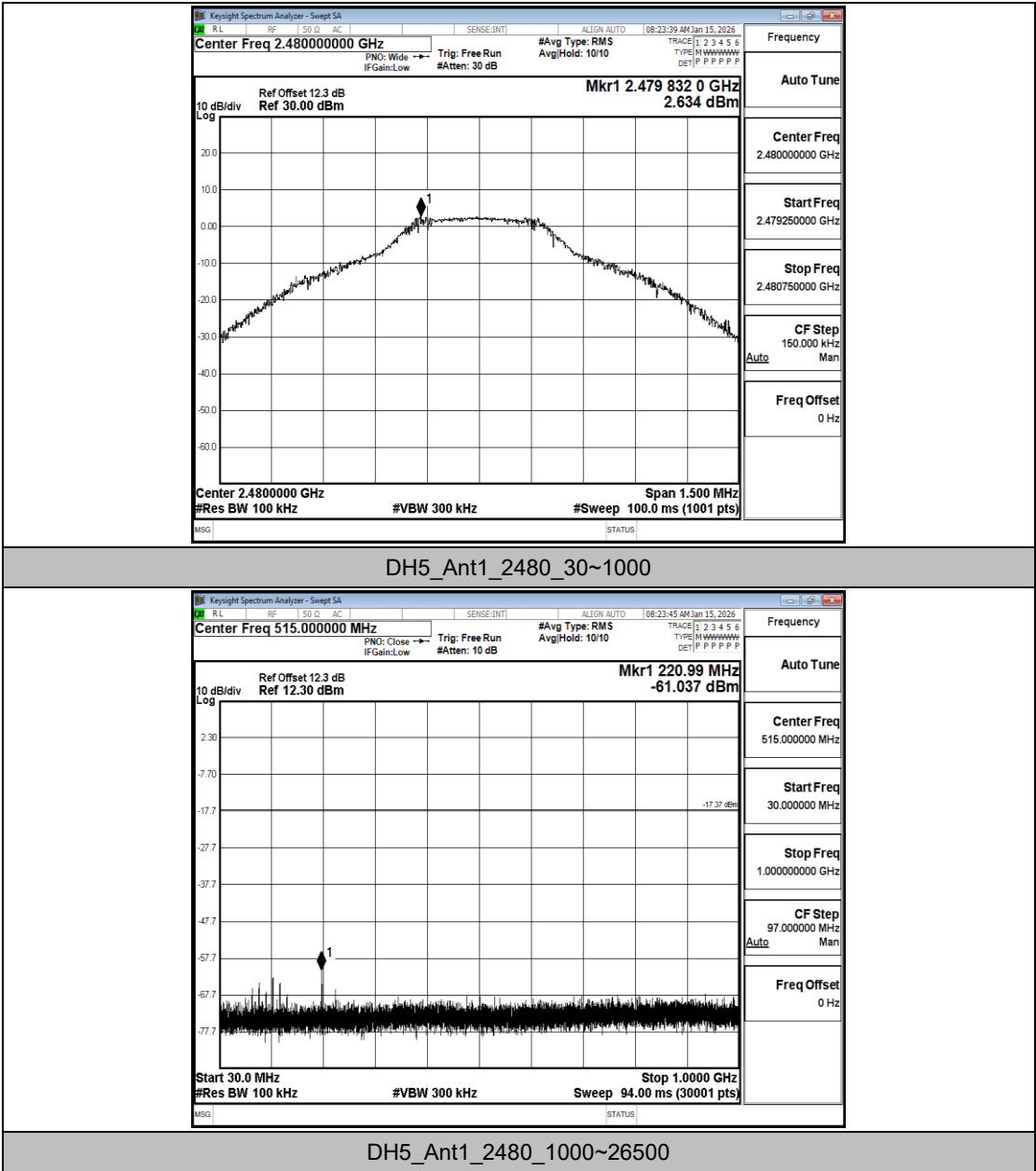
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

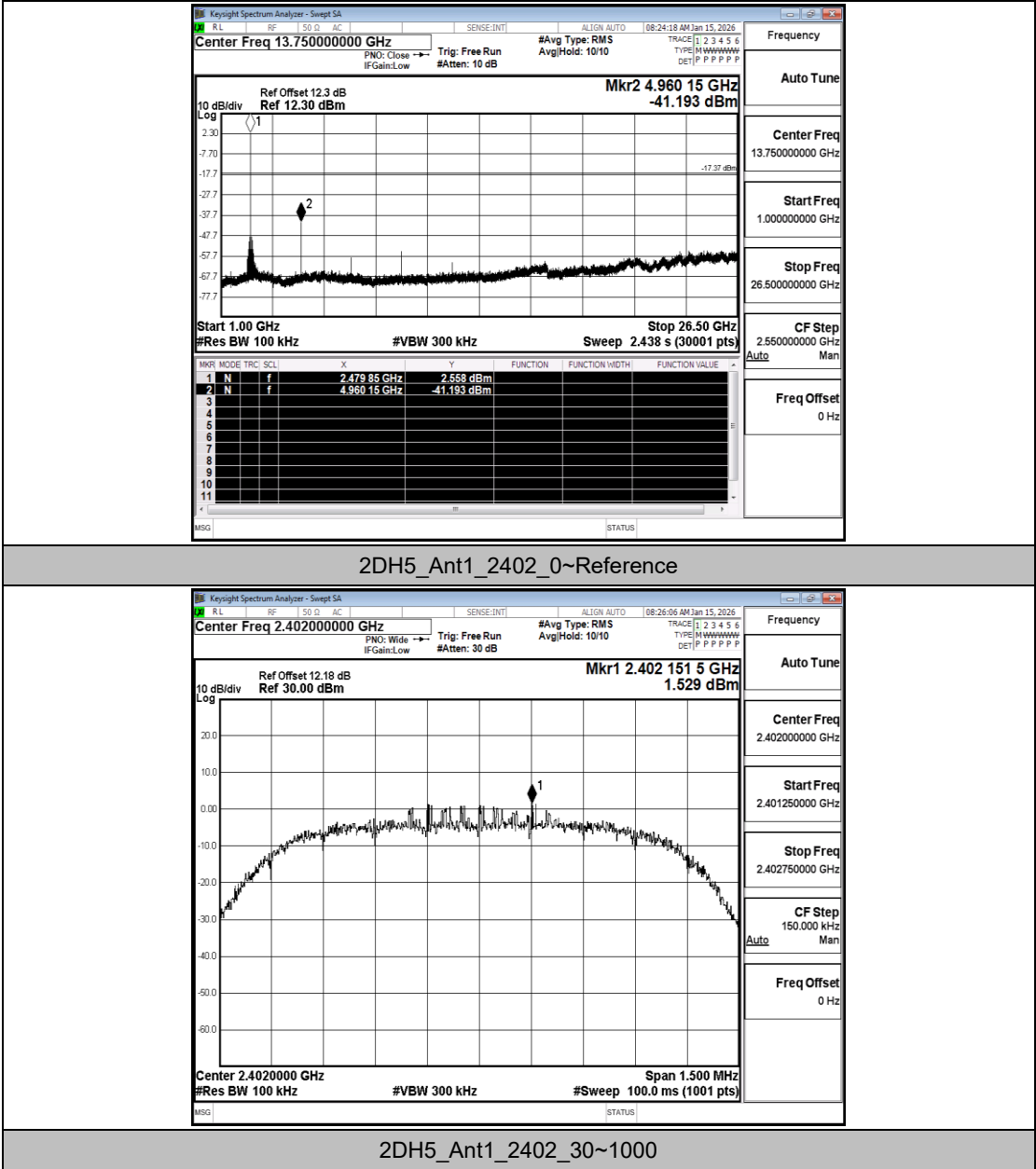
Test Graphs











2DH5_Ant1_2402_30~1000