

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BT SPEAKER JOLT

Test Model: BTSPJOFT52-BLK

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

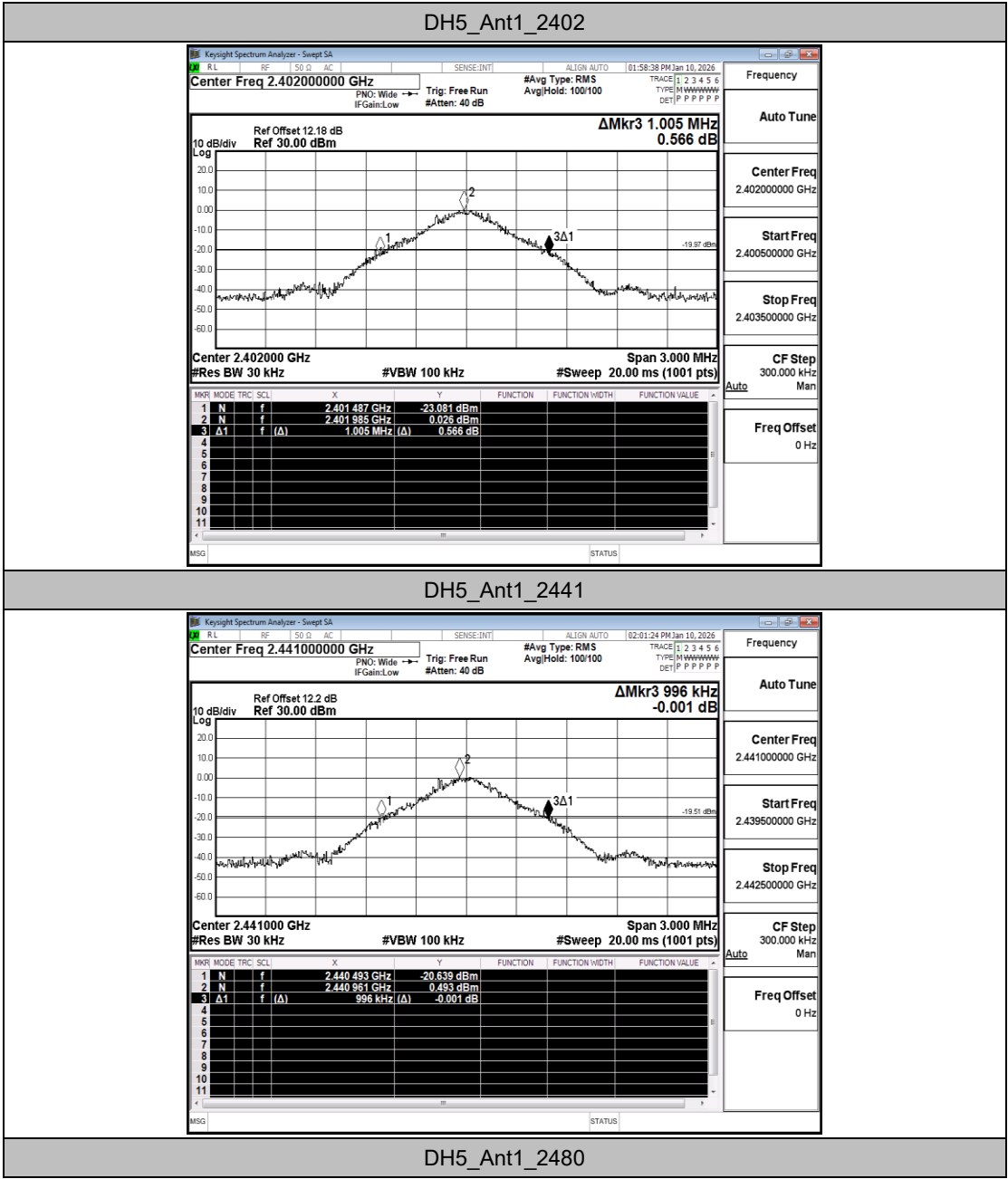
A.1 20dB Emission Bandwidth

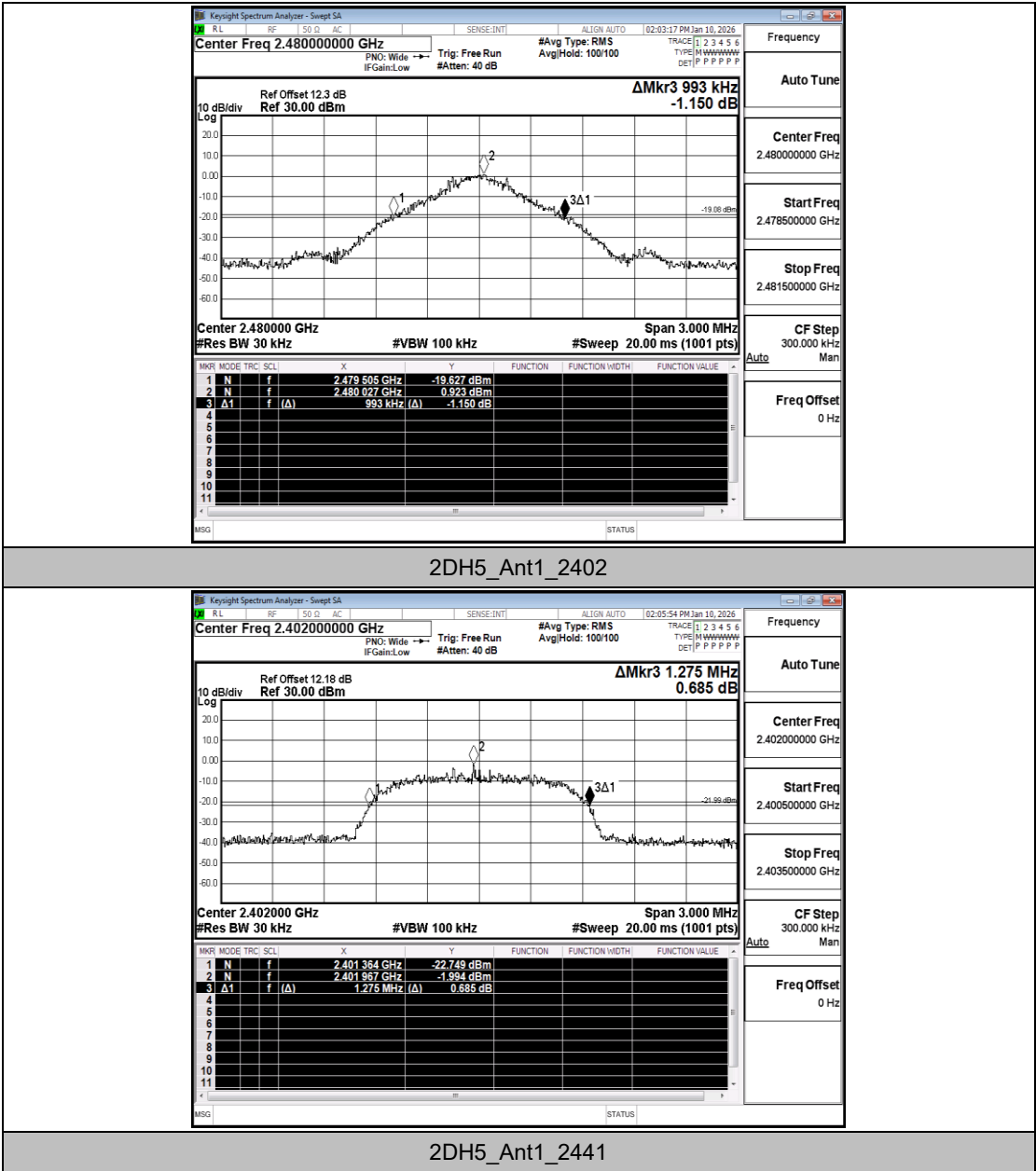
Test Result

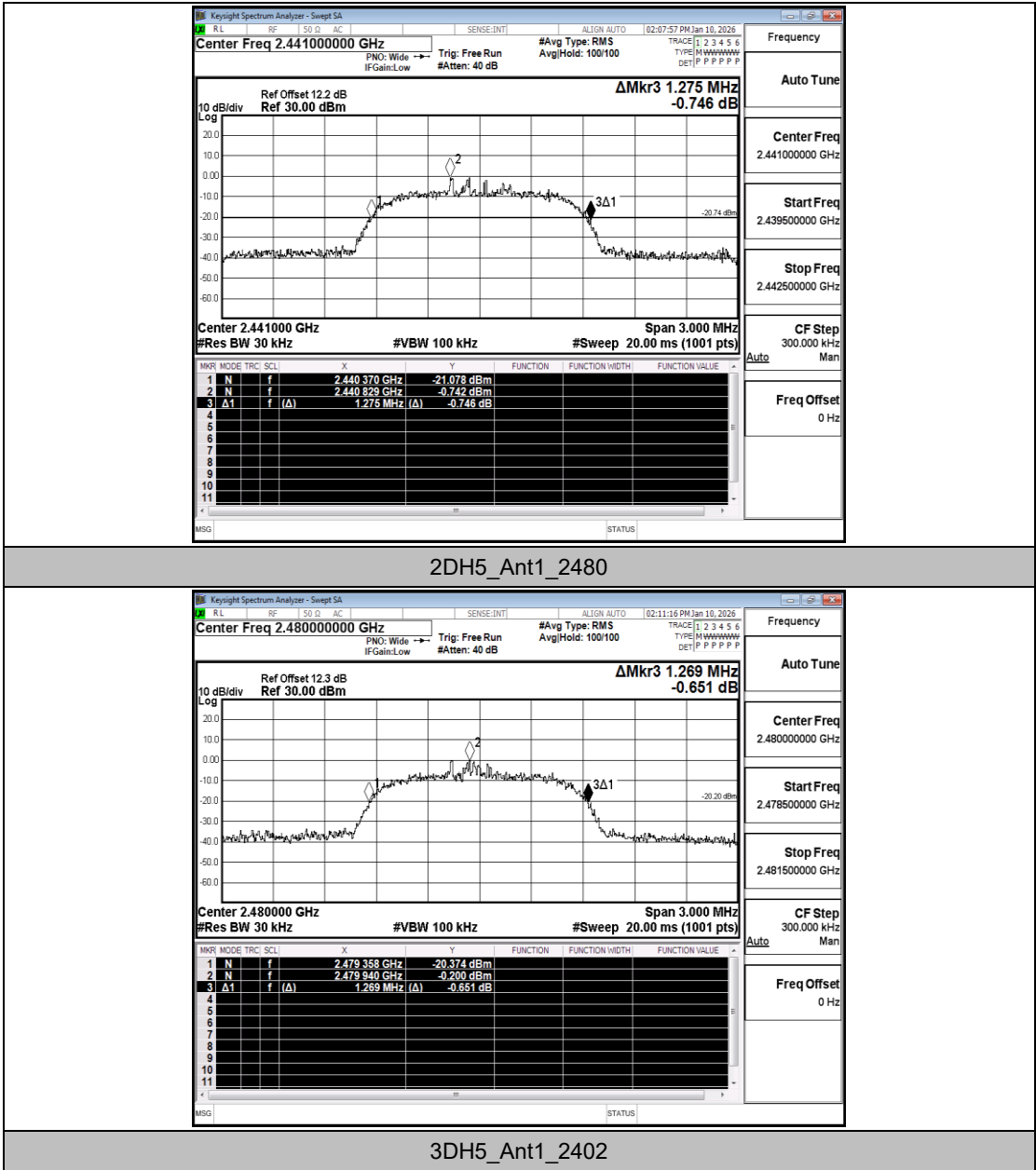
TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	1.005	2401.487	2402.492	---	---
		2441	0.996	2440.493	2441.489	---	---
		2480	0.993	2479.505	2480.498	---	---
2DH5	Ant1	2402	1.275	2401.364	2402.639	---	---
		2441	1.275	2440.370	2441.645	---	---
		2480	1.269	2479.358	2480.627	---	---
3DH5	Ant1	2402	1.275	2401.364	2402.639	---	---
		2441	1.287	2440.352	2441.639	---	---
		2480	1.281	2479.355	2480.636	---	---

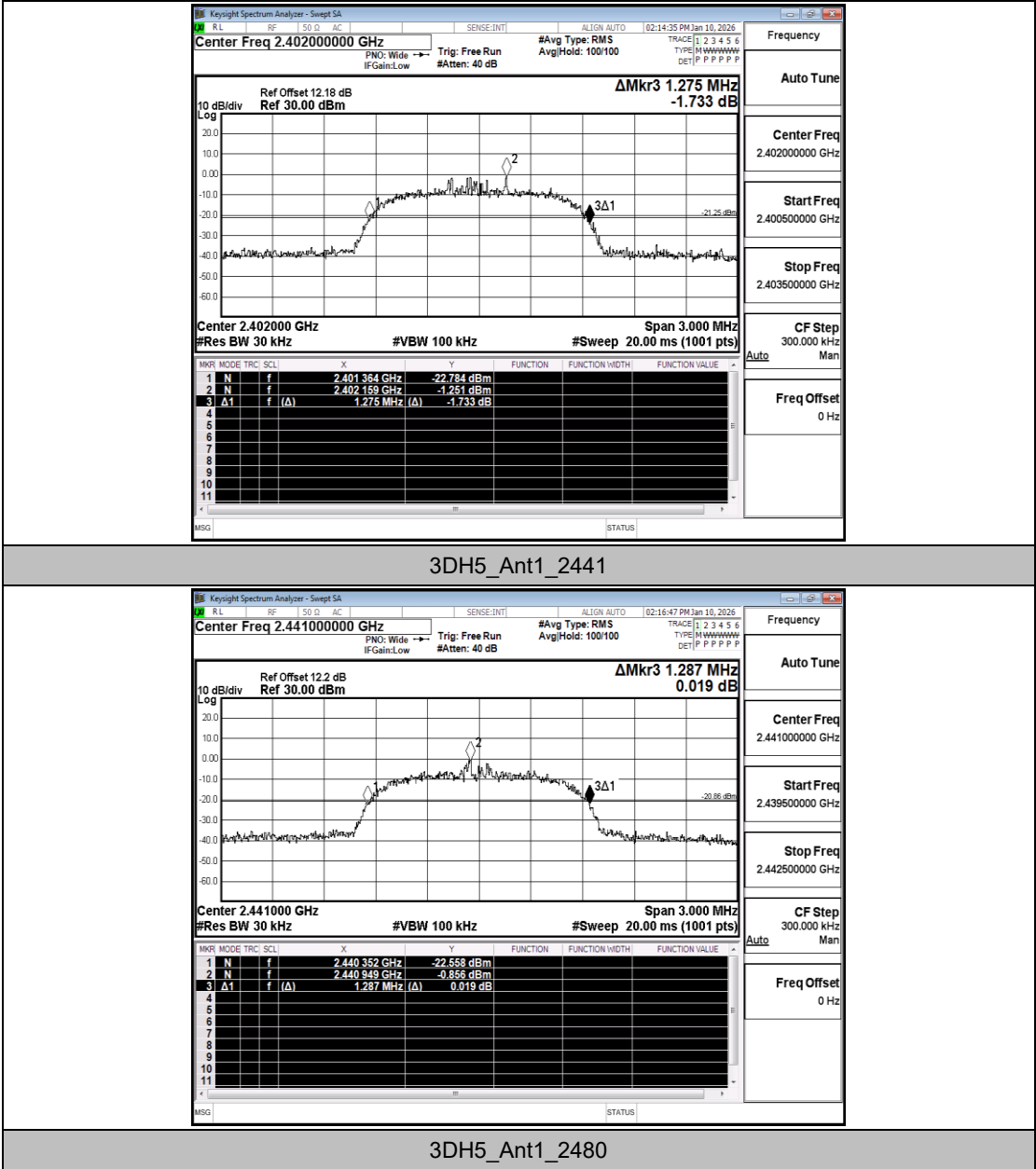
Note: offset=System attenuation +cabel loss

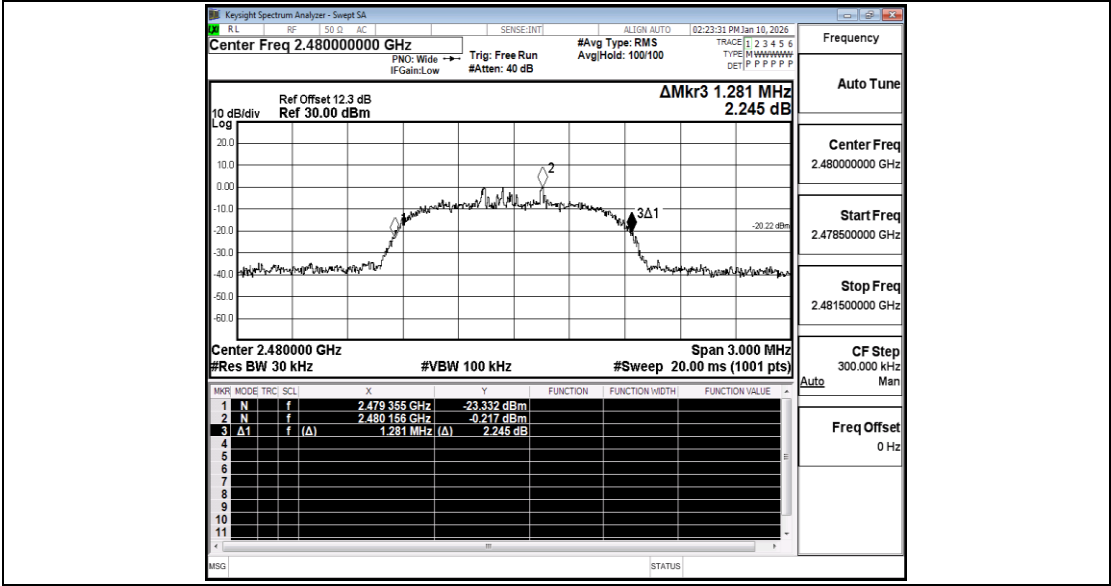
Test Graphs











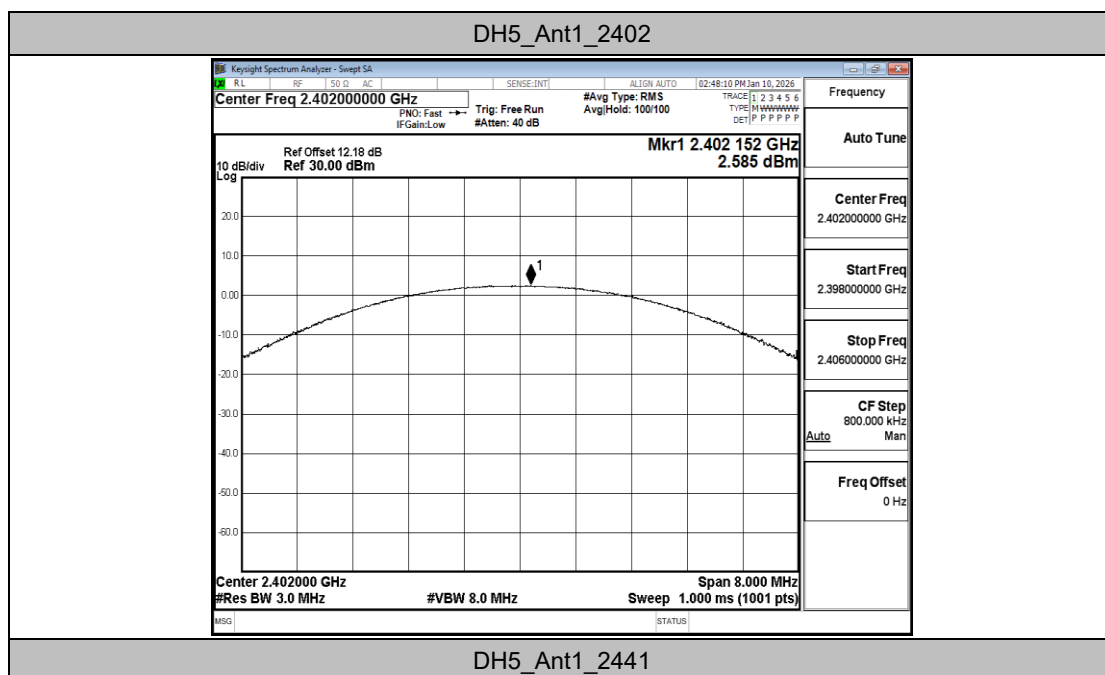
A.2 Maximum Peak conducted output power

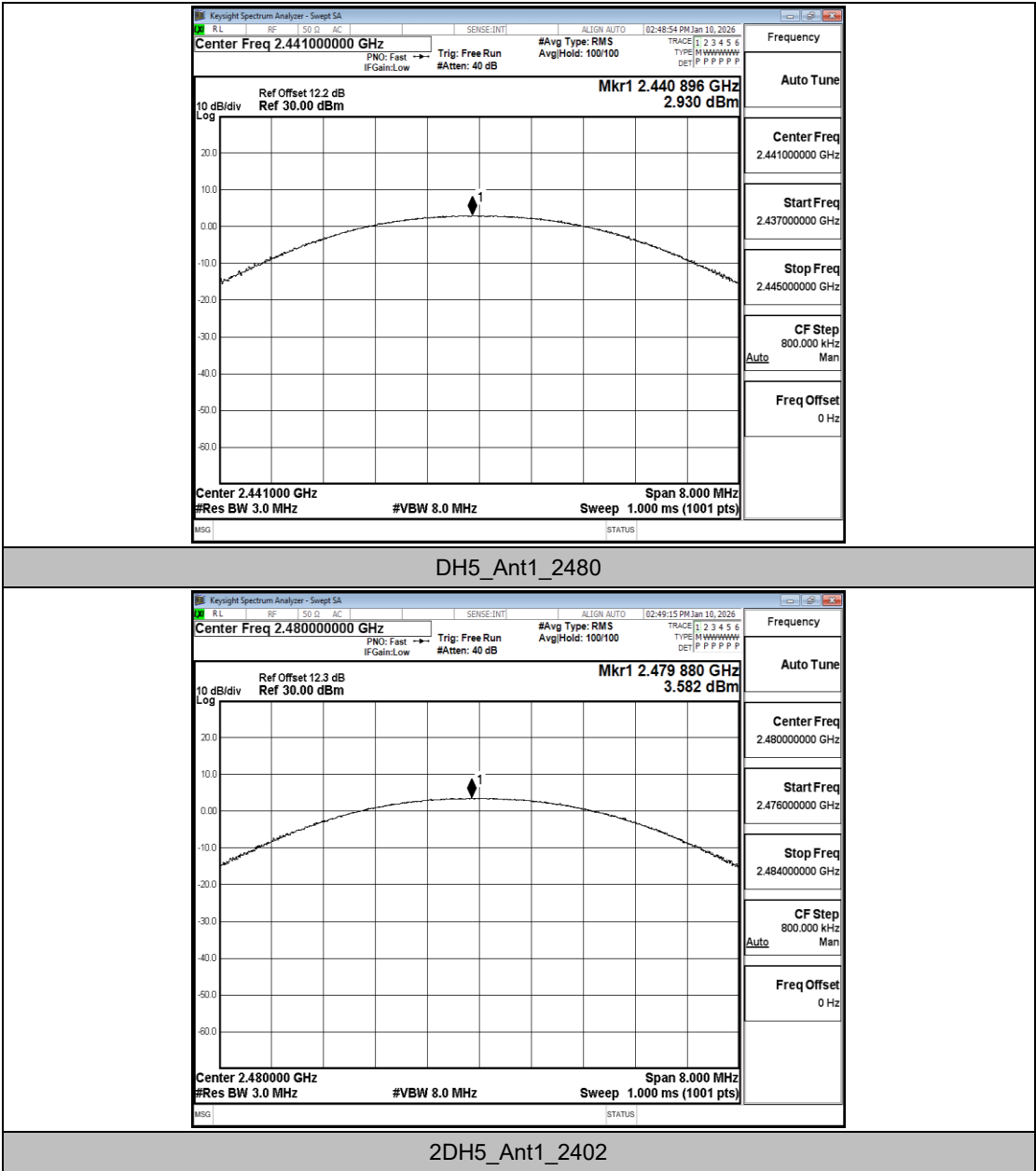
Test Result Peak

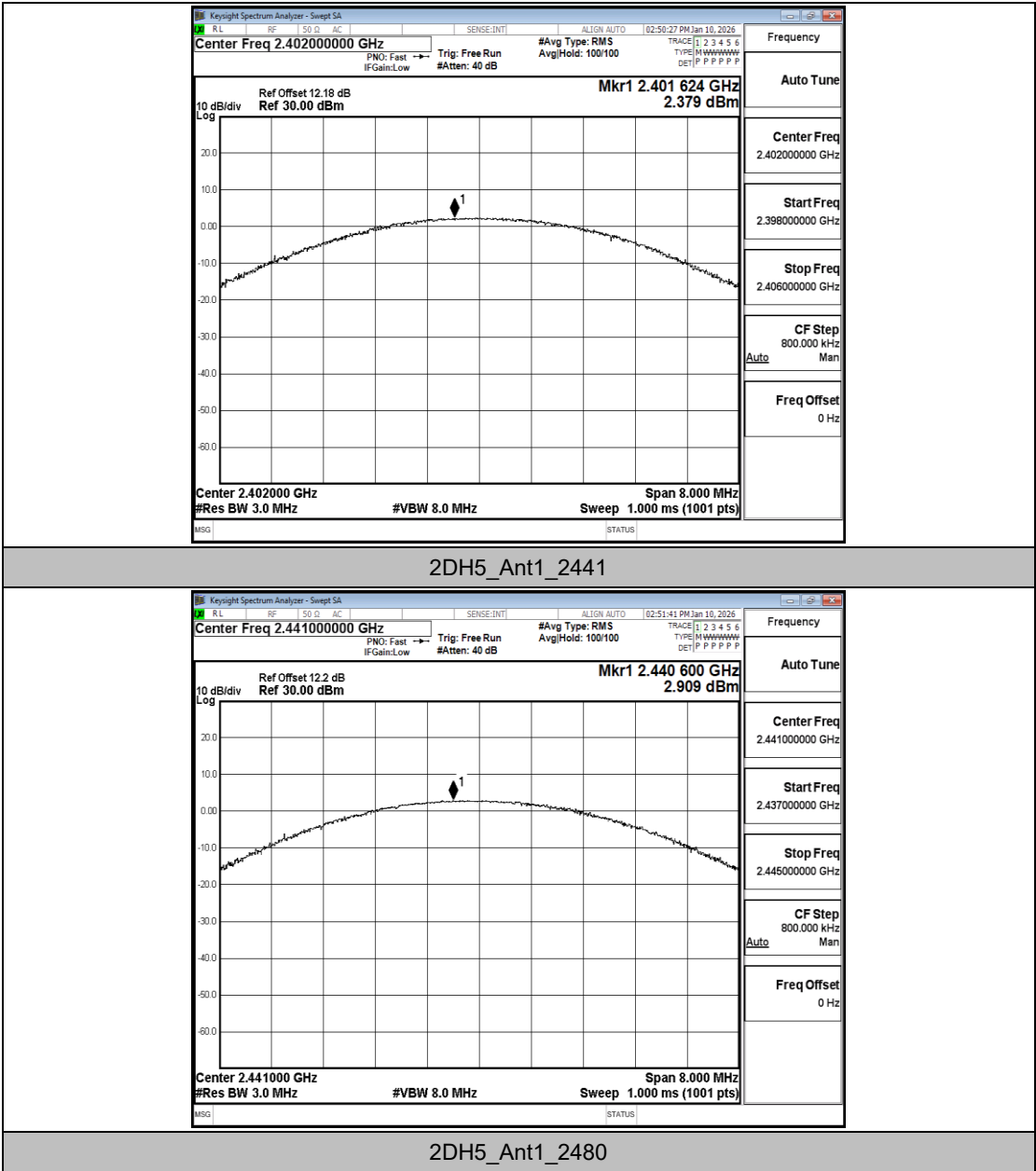
Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.59	≤20.97	PASS
		2441	2.93	≤20.97	PASS
		2480	3.58	≤20.97	PASS
2DH5	Ant1	2402	2.38	≤30	PASS
		2441	2.91	≤30	PASS
		2480	3.31	≤30	PASS
3DH5	Ant1	2402	2.36	≤20.97	PASS
		2441	2.96	≤20.97	PASS
		2480	3.54	≤20.97	PASS

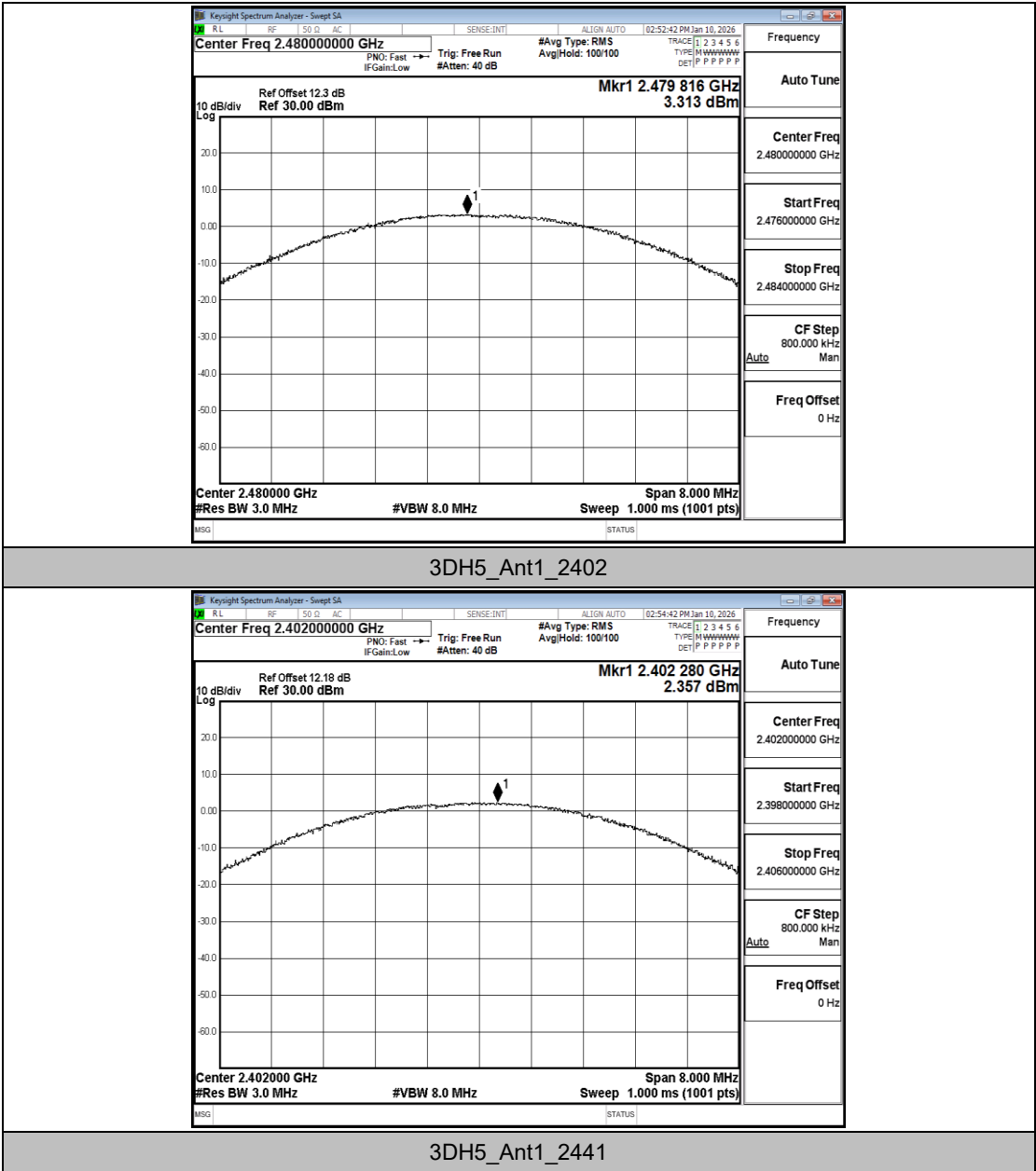
Note: offset=System attenuation +cabel loss

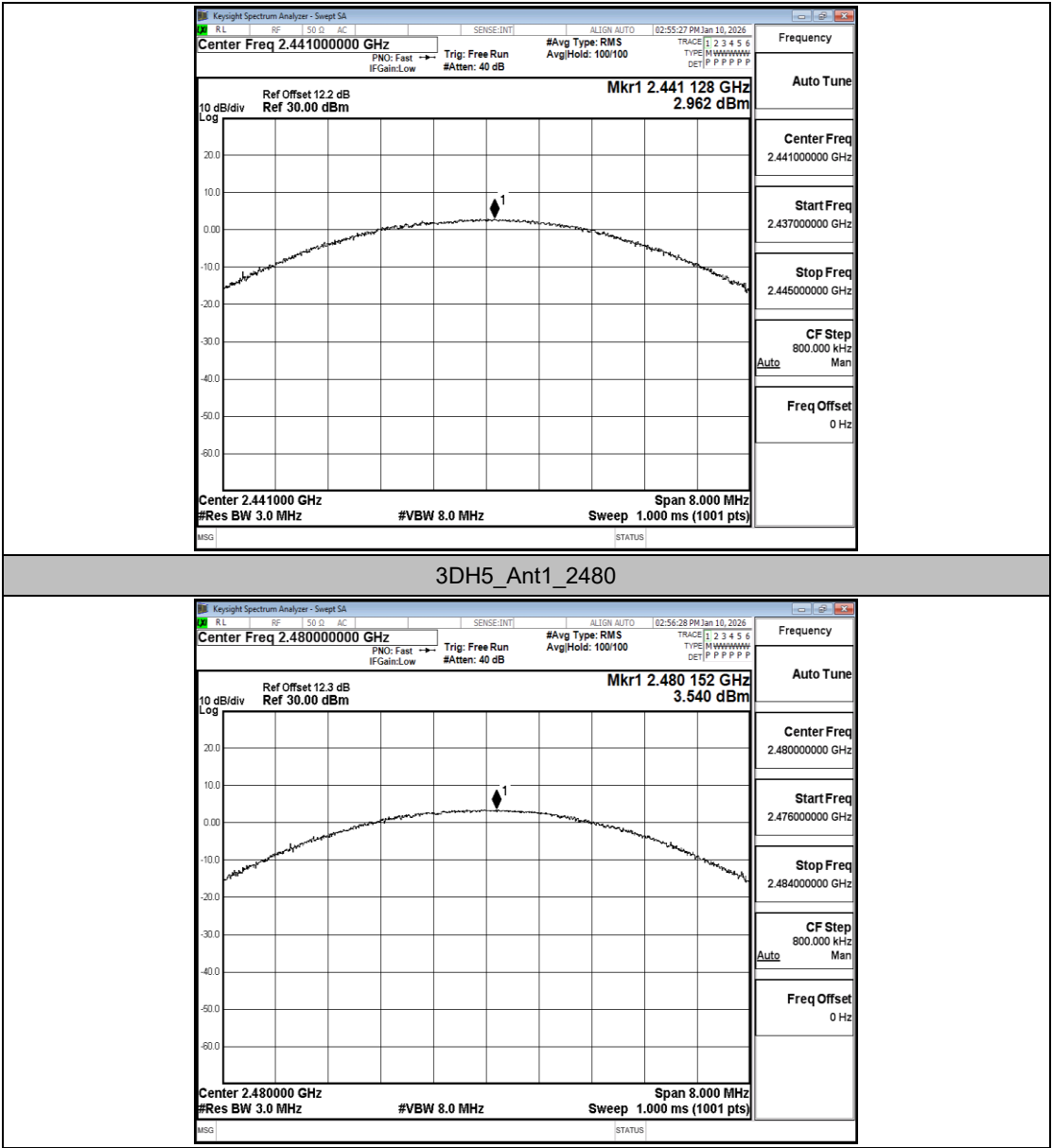
Test Graphs











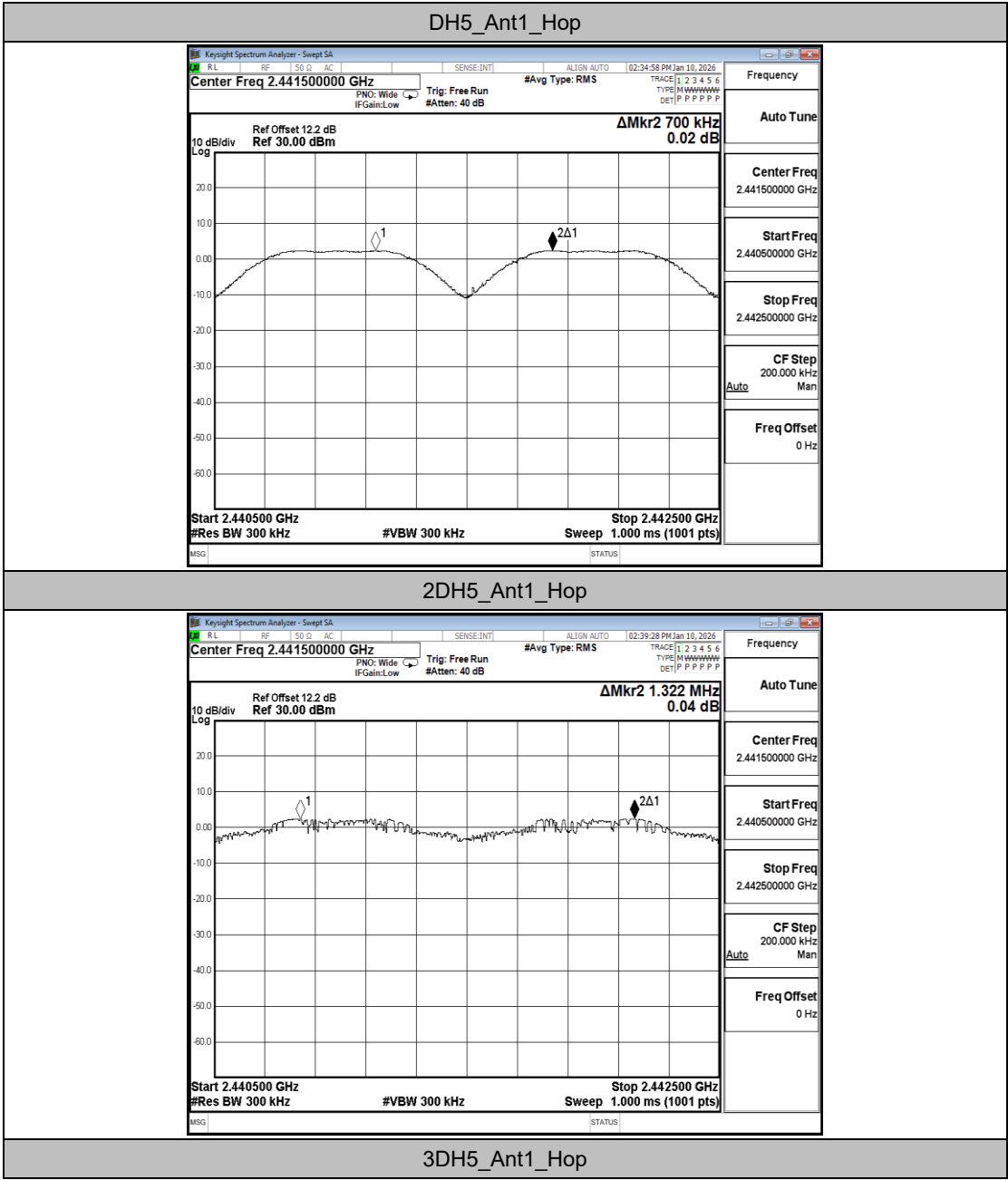
A.3 Carrier frequency separation

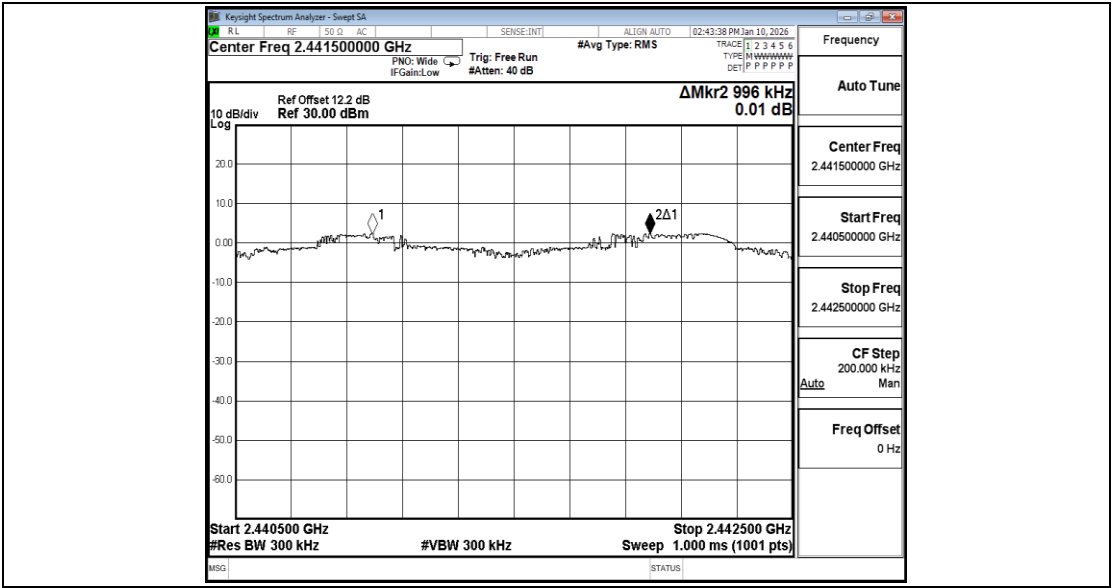
Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.7	≥0.670	PASS
2DH5	Ant1	Hop	1.322	≥0.850	PASS
3DH5	Ant1	Hop	0.996	≥0.858	PASS

Note: offset=System attenuation +cabal loss

Test Graphs





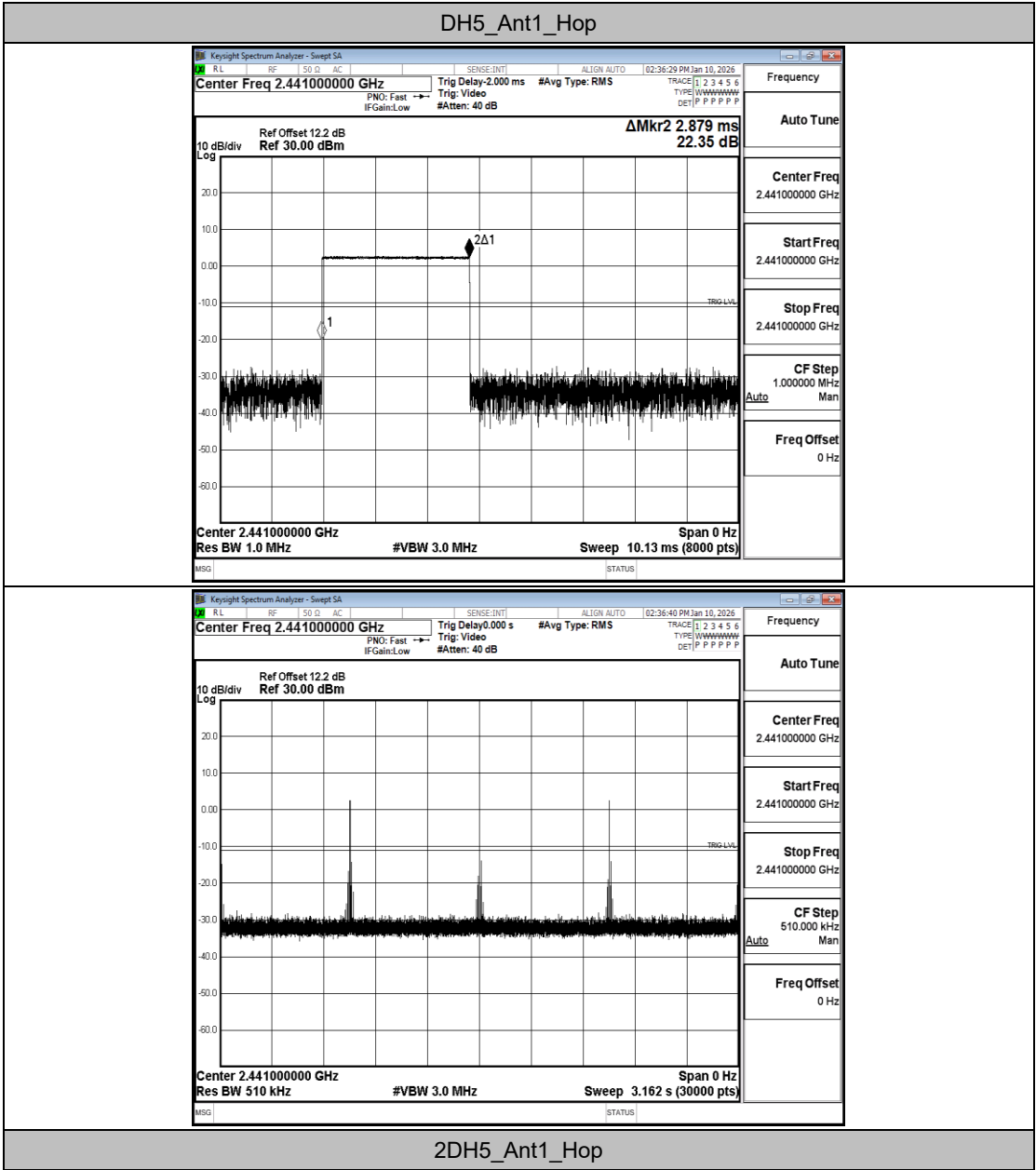
A.4 Time of occupancy

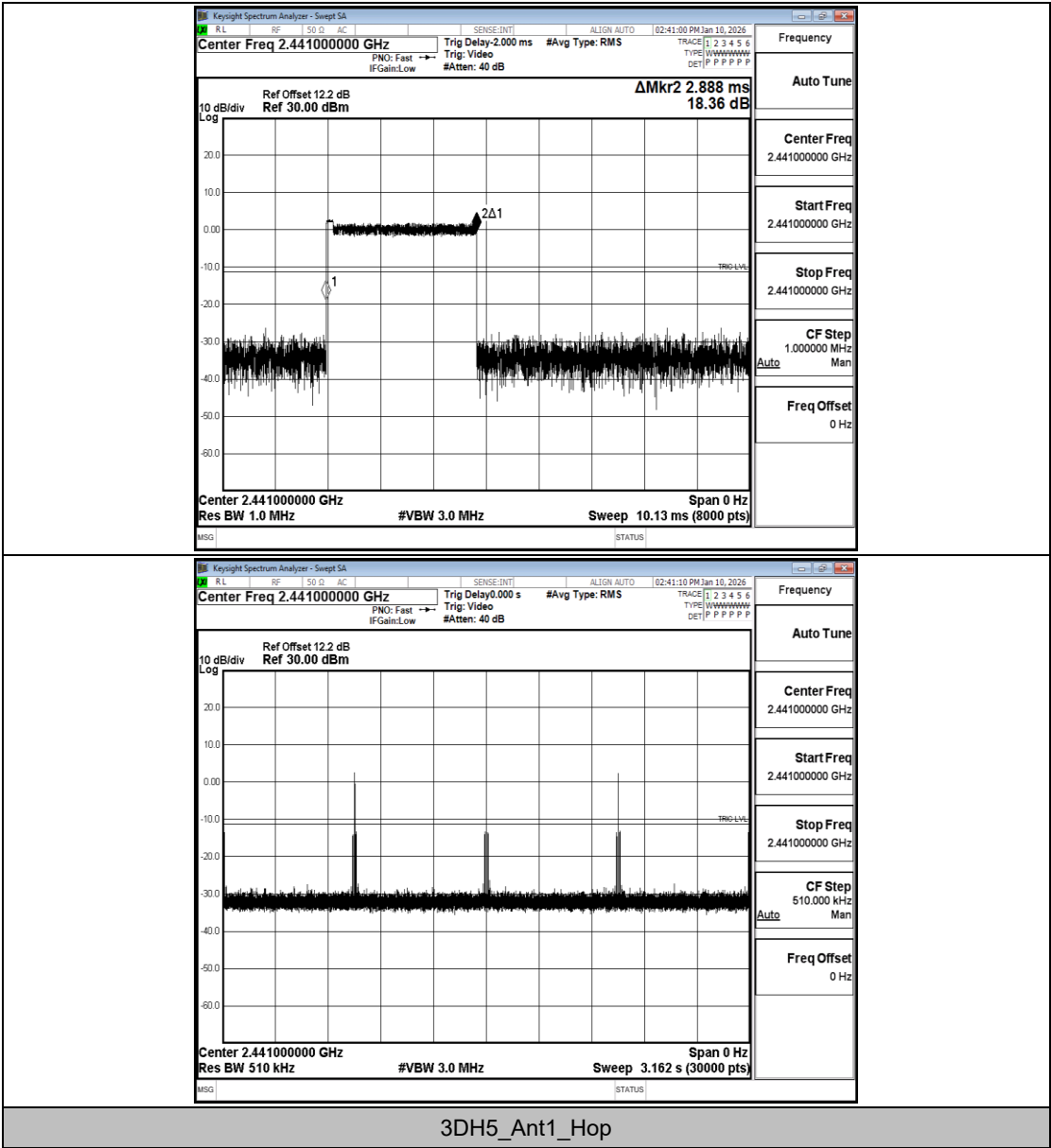
Test Result

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	2.888	40	0.116	≤0.4	PASS
3DH5	Ant1	Hop	2.888	40	0.116	≤0.4	PASS

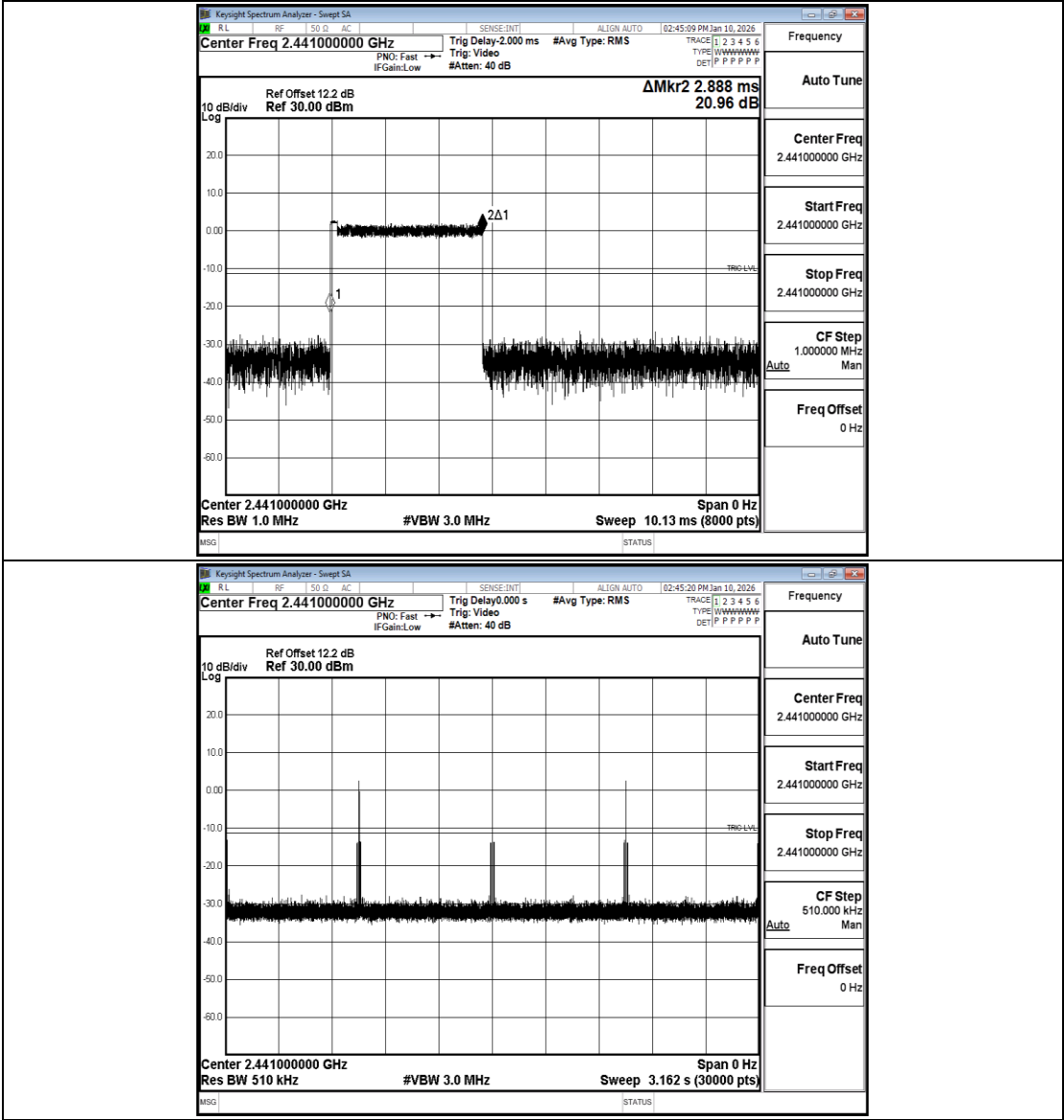
Note: offset=System attenuation +cabal loss

Test Graphs





3DH5_Ant1_Hop



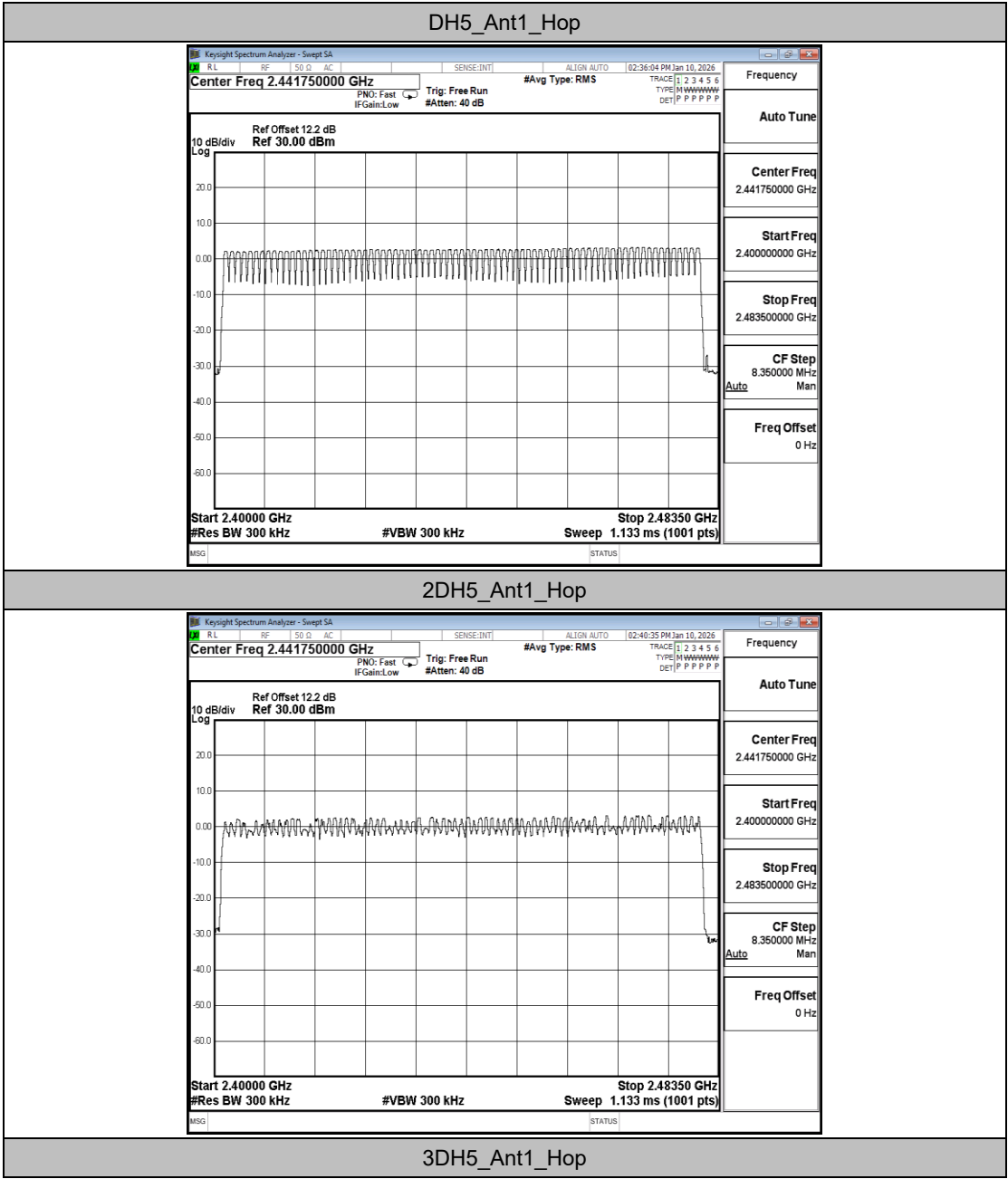
A.5 Number of hopping channels

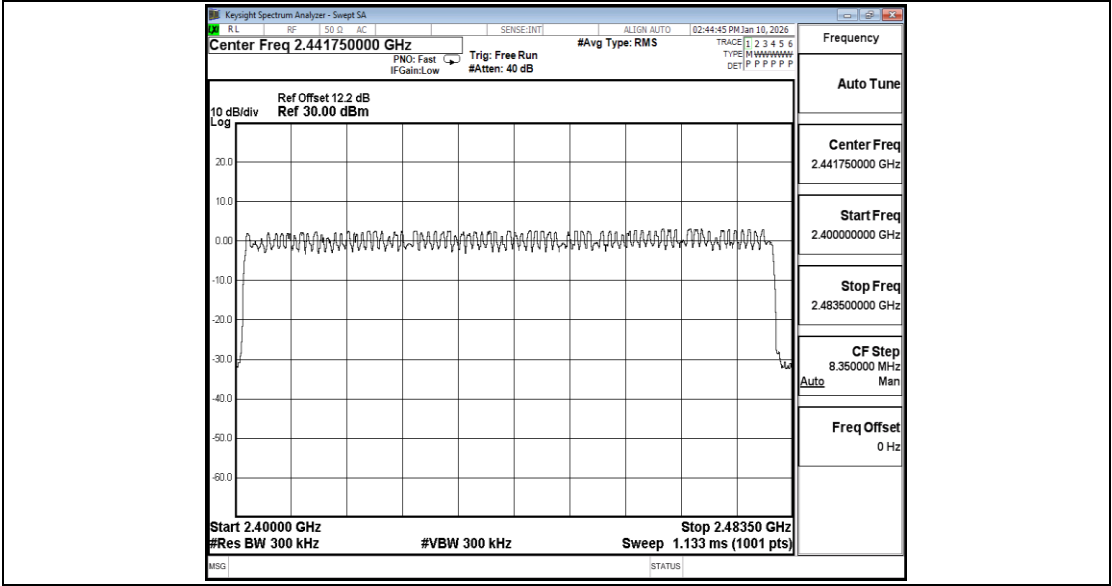
Test Result

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

Note: offset=System attenuation +caval loss

Test Graphs





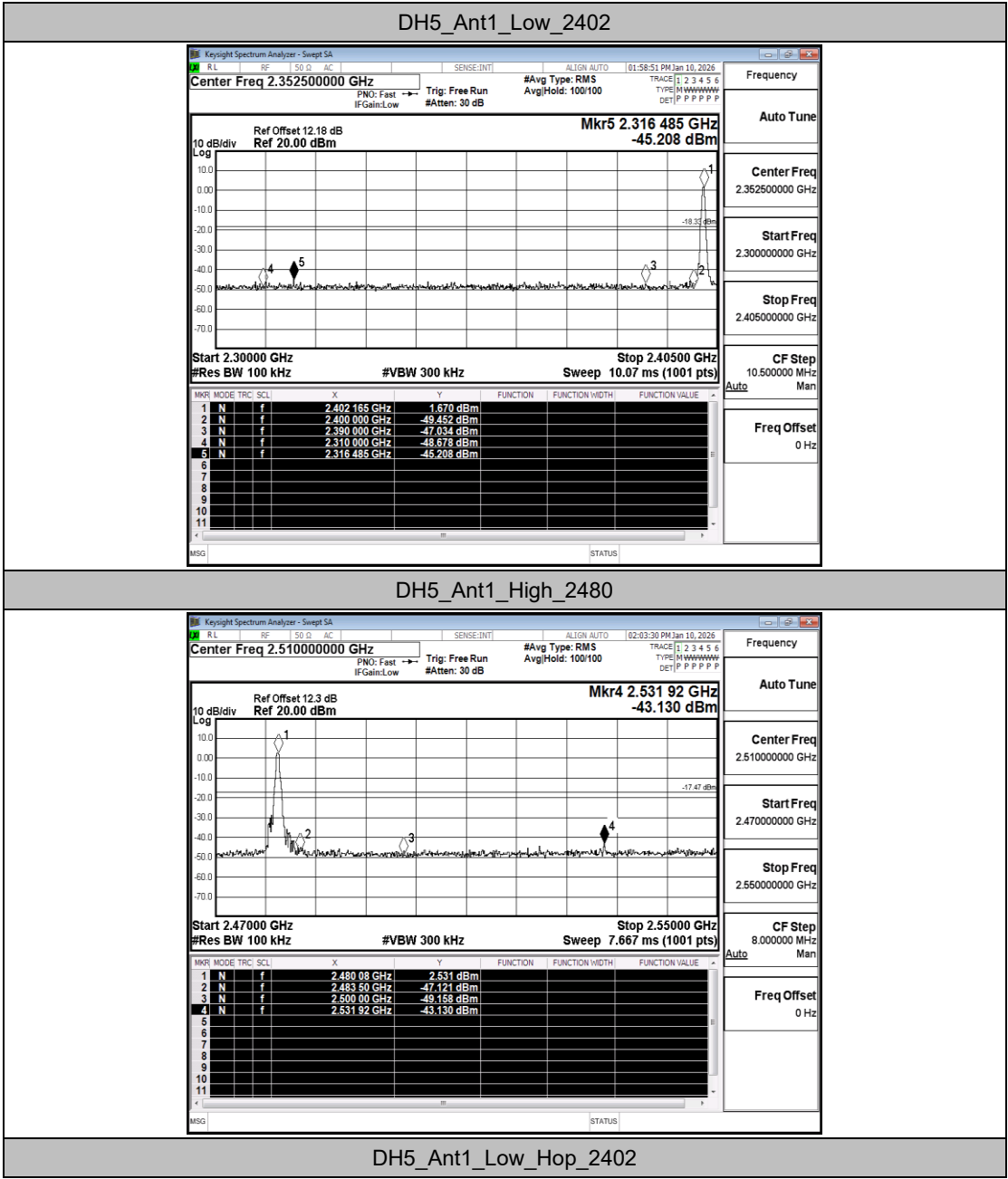
A.6 Band edge measurements

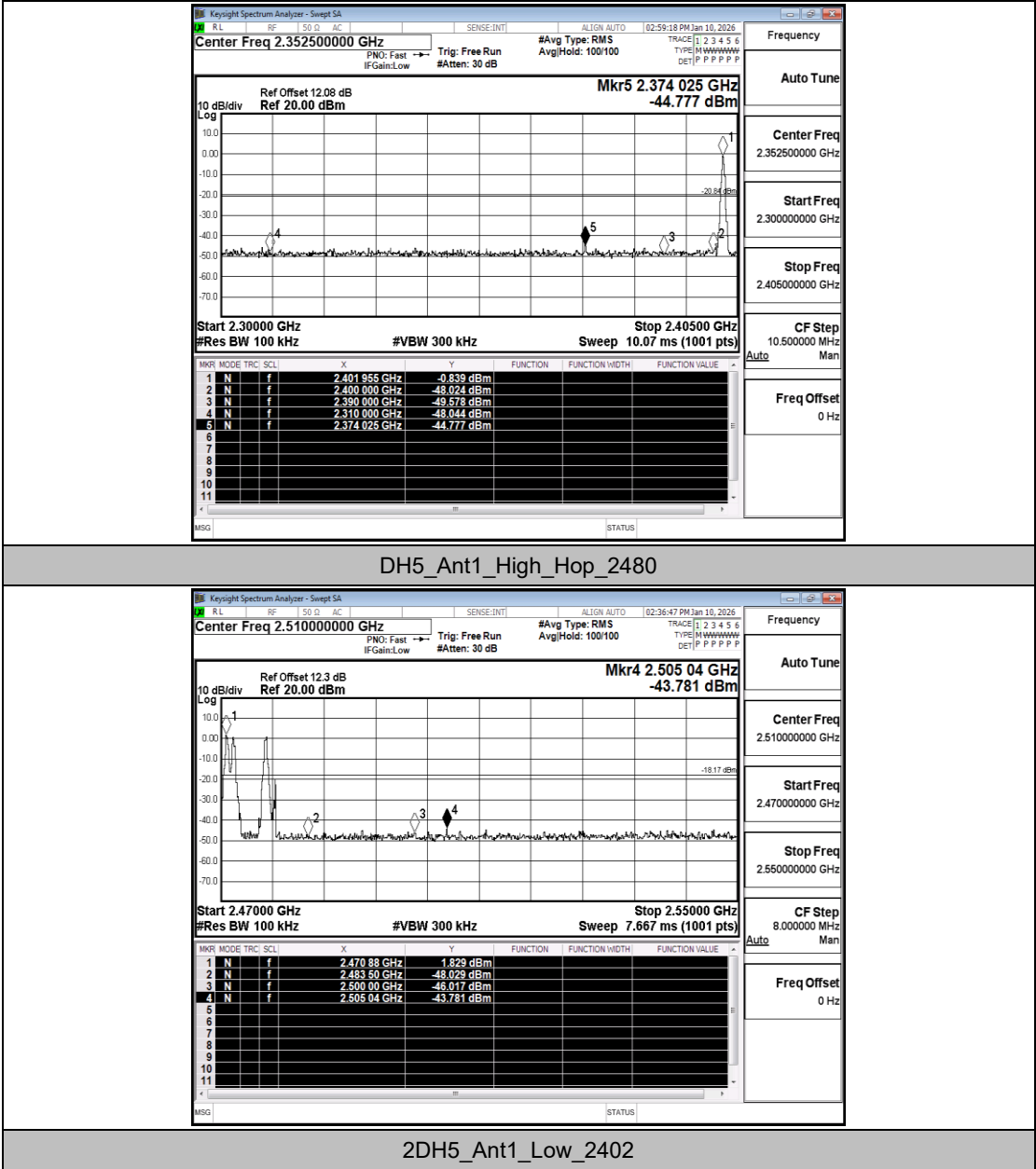
Test Result

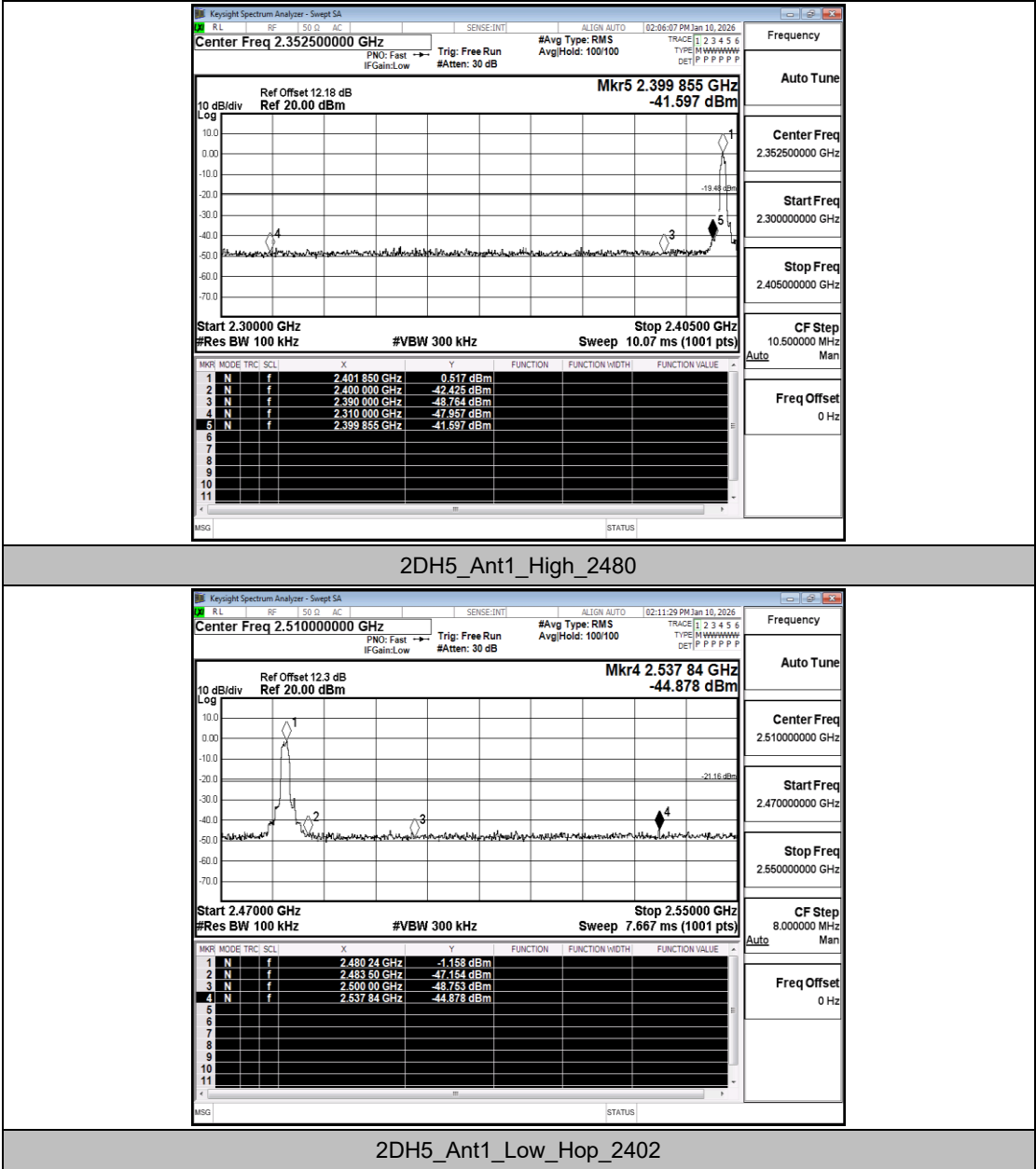
TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.67	-45.21	≤-18.33	PASS
		High	2480	2.53	-43.13	≤-17.47	PASS
		Low	Hop_2402	-0.84	-44.78	≤-20.84	PASS
		High	Hop_2480	1.83	-43.78	≤-18.17	PASS
2DH5	Ant1	Low	2402	0.52	-41.6	≤-19.48	PASS
		High	2480	-1.16	-44.88	≤-21.16	PASS
		Low	Hop_2402	-6.16	-45.66	≤-26.16	PASS
		High	Hop_2480	-3.51	-44.67	≤-23.51	PASS
3DH5	Ant1	Low	2402	-0.42	-39.98	≤-20.42	PASS
		High	2480	2.47	-44.85	≤-17.53	PASS
		Low	Hop_2402	-4.63	-45.89	≤-24.63	PASS
		High	Hop_2480	-2.75	-43.71	≤-22.75	PASS

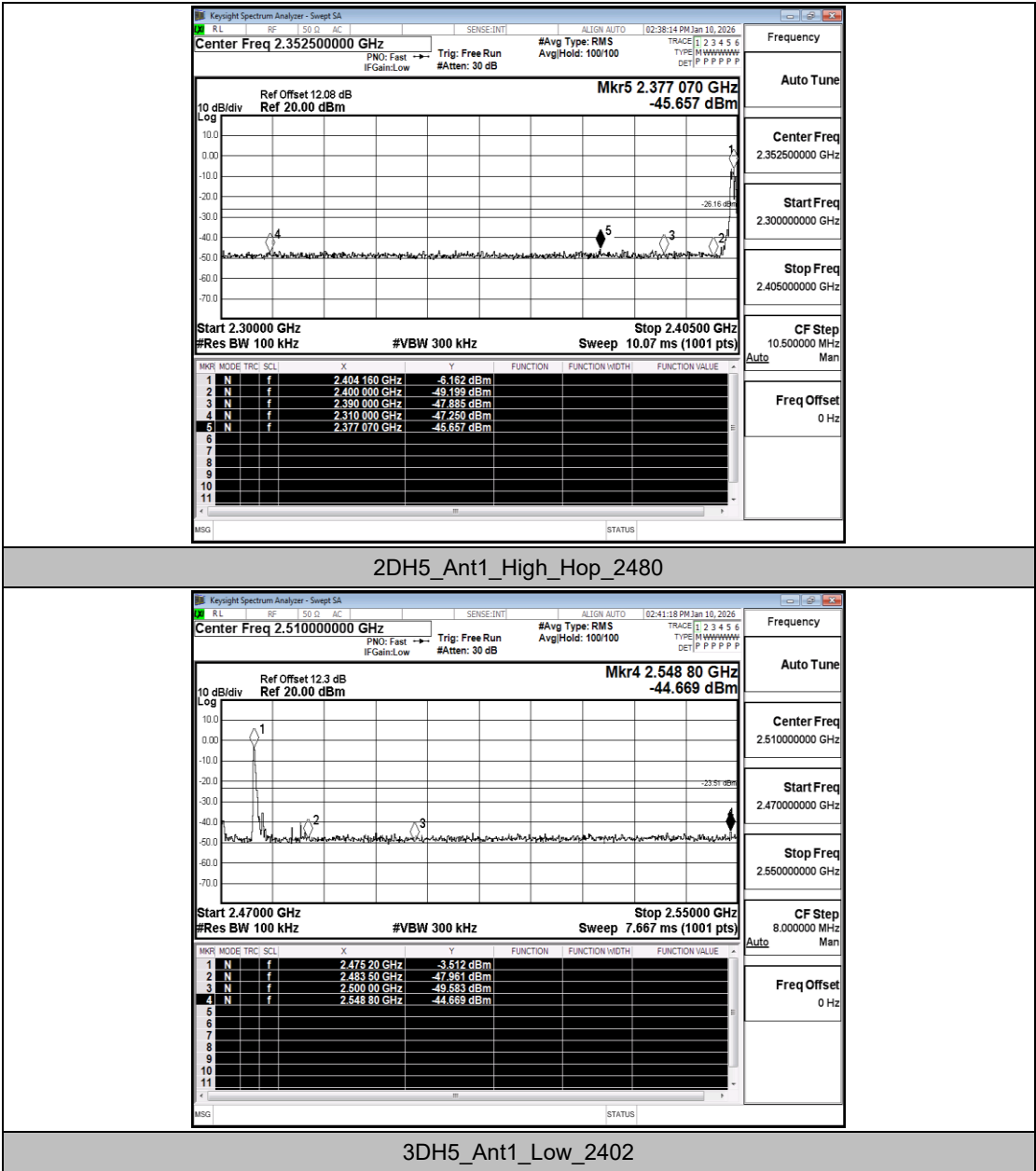
Note: offset=System attenuation +cabal loss

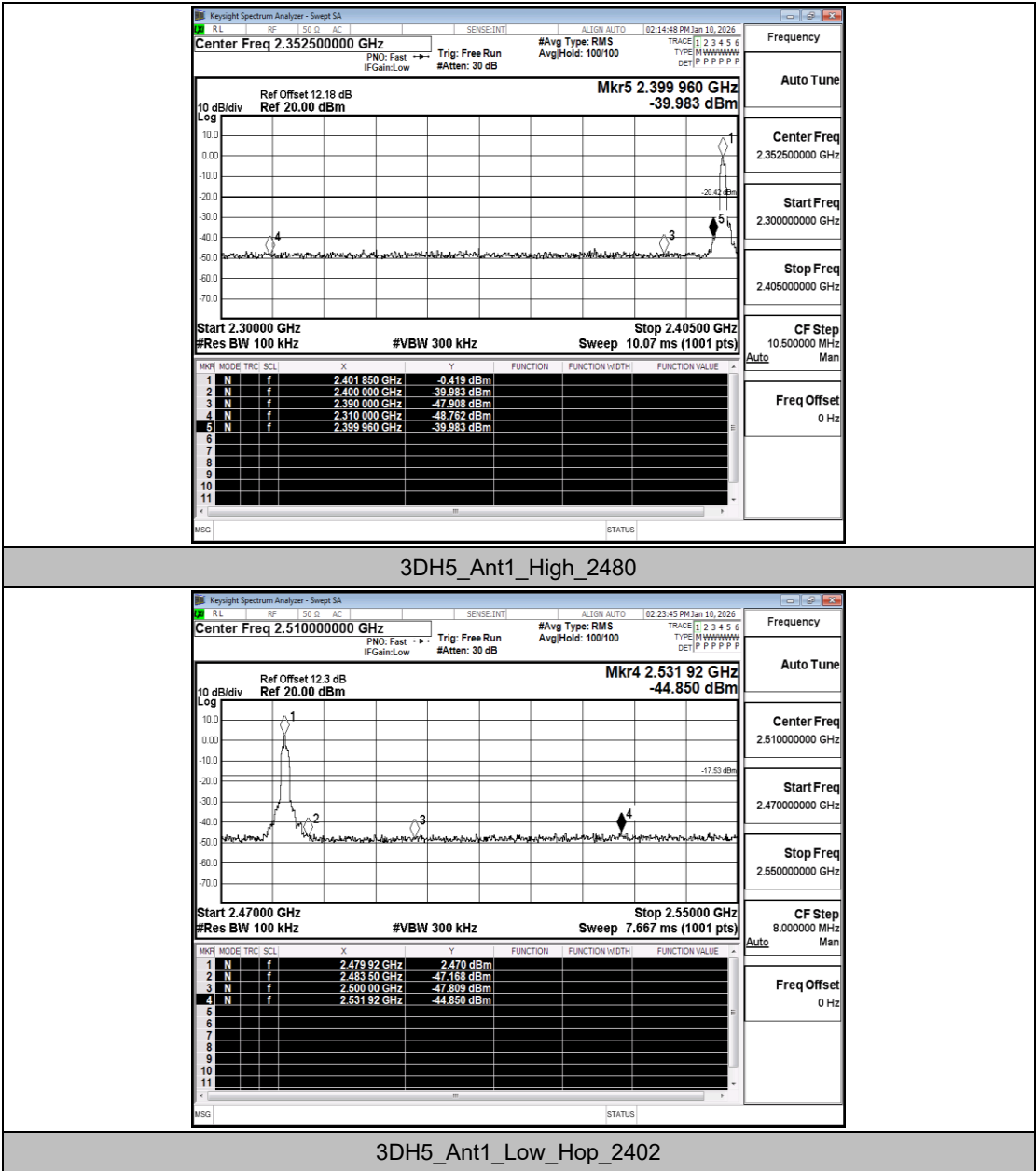
Test Graphs

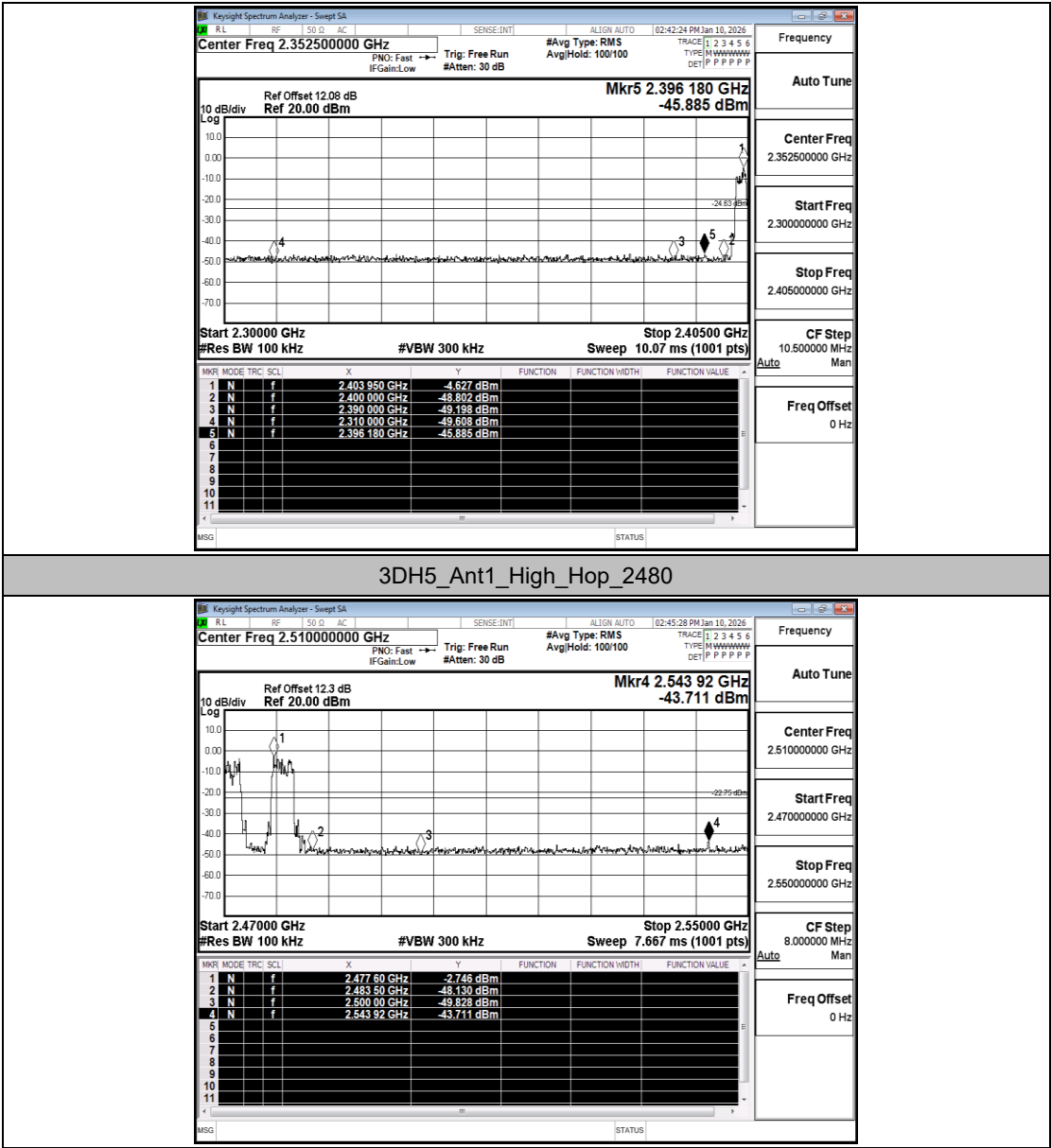












A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-45.82	≤-19.36	PASS
			1000~26500	0.64	-40.81	≤-19.36	PASS
		2441	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-64.17	≤-18.41	PASS
			1000~26500	1.59	-40.32	≤-18.41	PASS
		2480	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-55.01	≤-17.42	PASS
			1000~26500	2.58	-40.86	≤-17.42	PASS
2DH5	Ant1	2402	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-54.79	≤-19.33	PASS
			1000~26500	0.67	-47.5	≤-19.33	PASS
		2441	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-62.59	≤-18.39	PASS
			1000~26500	1.61	-45.93	≤-18.39	PASS
		2480	Reference	2.79	2.79	---	PASS
			30~1000	2.79	-59.78	≤-17.21	PASS
			1000~26500	2.79	-52.51	≤-17.21	PASS
3DH5	Ant1	2402	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-54.62	≤-19.34	PASS
			1000~26500	0.66	-48.39	≤-19.34	PASS
		2441	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-60.51	≤-18.56	PASS
			1000~26500	1.44	-47.82	≤-18.56	PASS
		2480	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-54.5	≤-17.37	PASS
			1000~26500	2.63	-45.03	≤-17.37	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

