

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: love island TWS
Test Model: EEBLLVI124

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

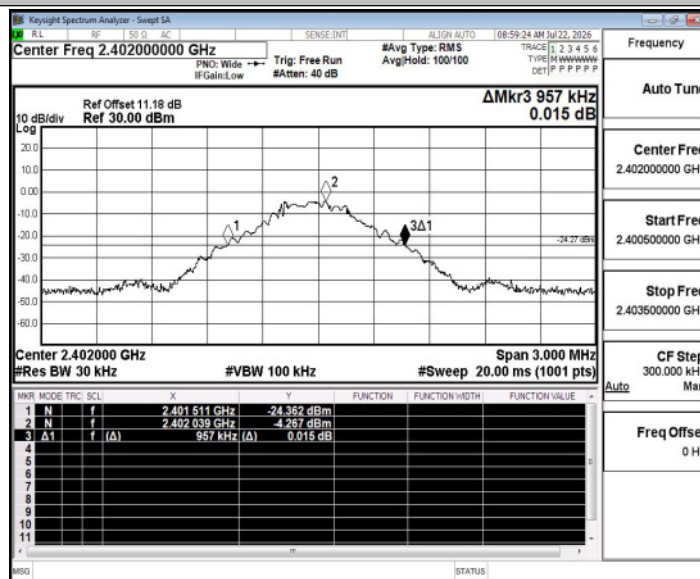
A.1 20dB Emission Bandwidth

Test Result

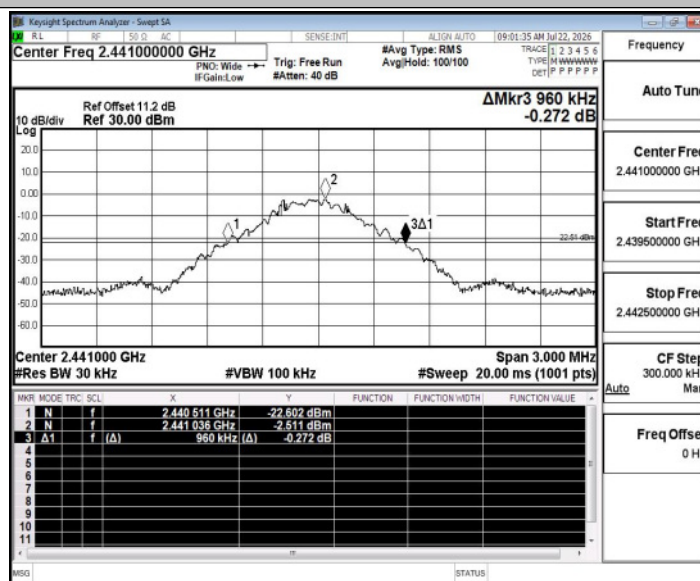
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.511	2402.468	---	---
		2441	0.960	2440.511	2441.471	---	---
		2480	0.960	2479.508	2480.468	---	---
2DH5	Ant1	2402	1.281	2401.349	2402.630	---	---
		2441	1.278	2440.349	2441.627	---	---
		2480	1.275	2479.349	2480.624	---	---
3DH5	Ant1	2402	1.296	2401.331	2402.627	---	---
		2441	1.284	2440.340	2441.624	---	---
		2480	1.287	2479.334	2480.621	---	---

Test Graphs

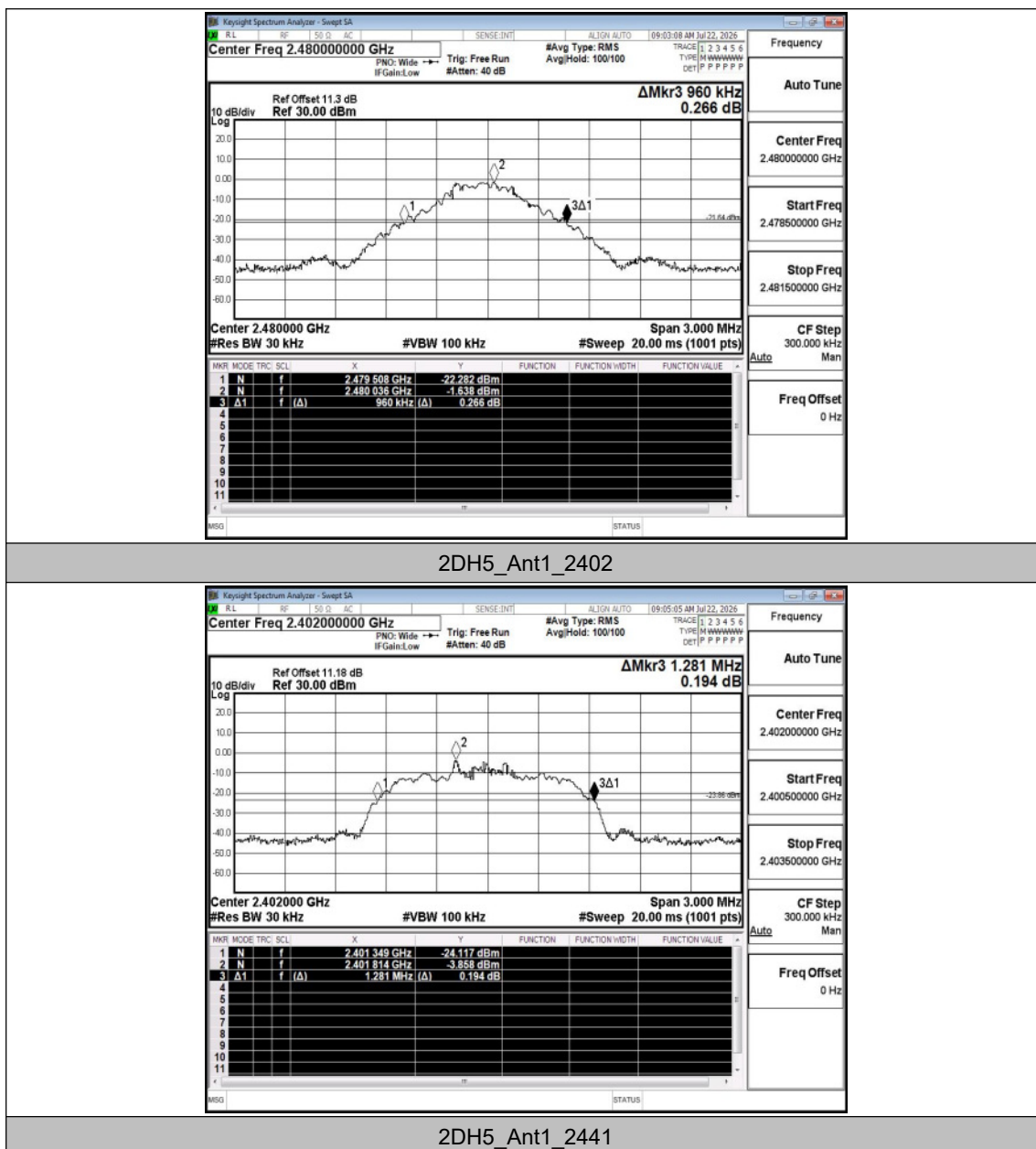
DH5_Ant1_2402

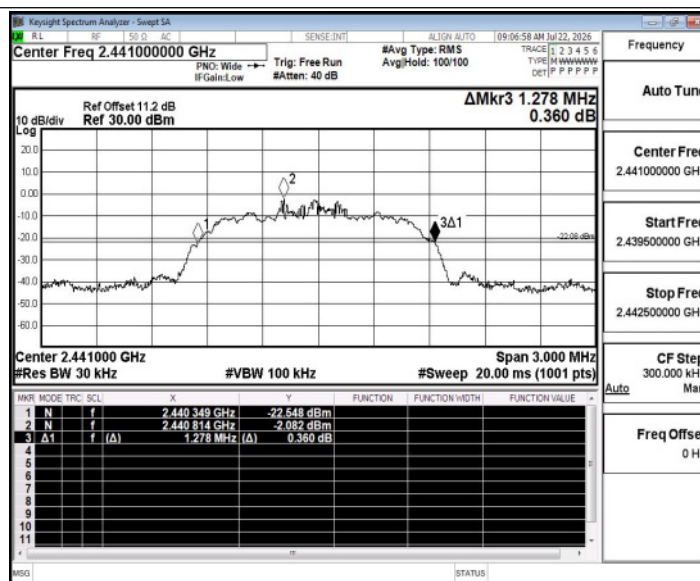


DH5_Ant1_2441

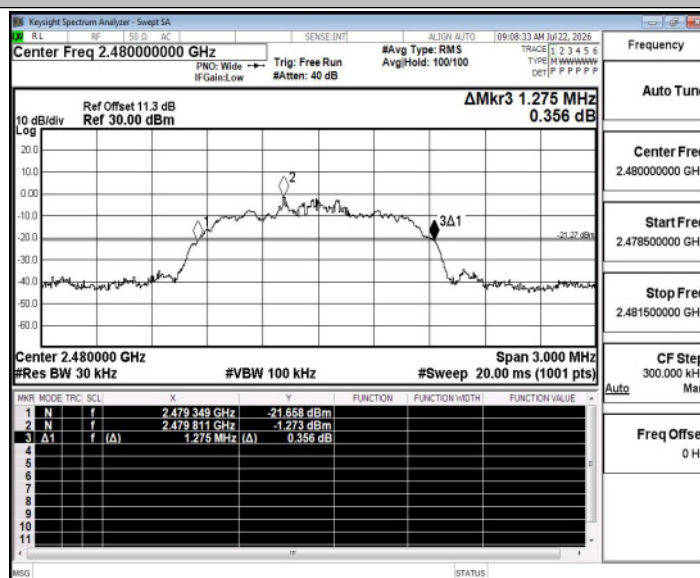


DH5_Ant1_2480

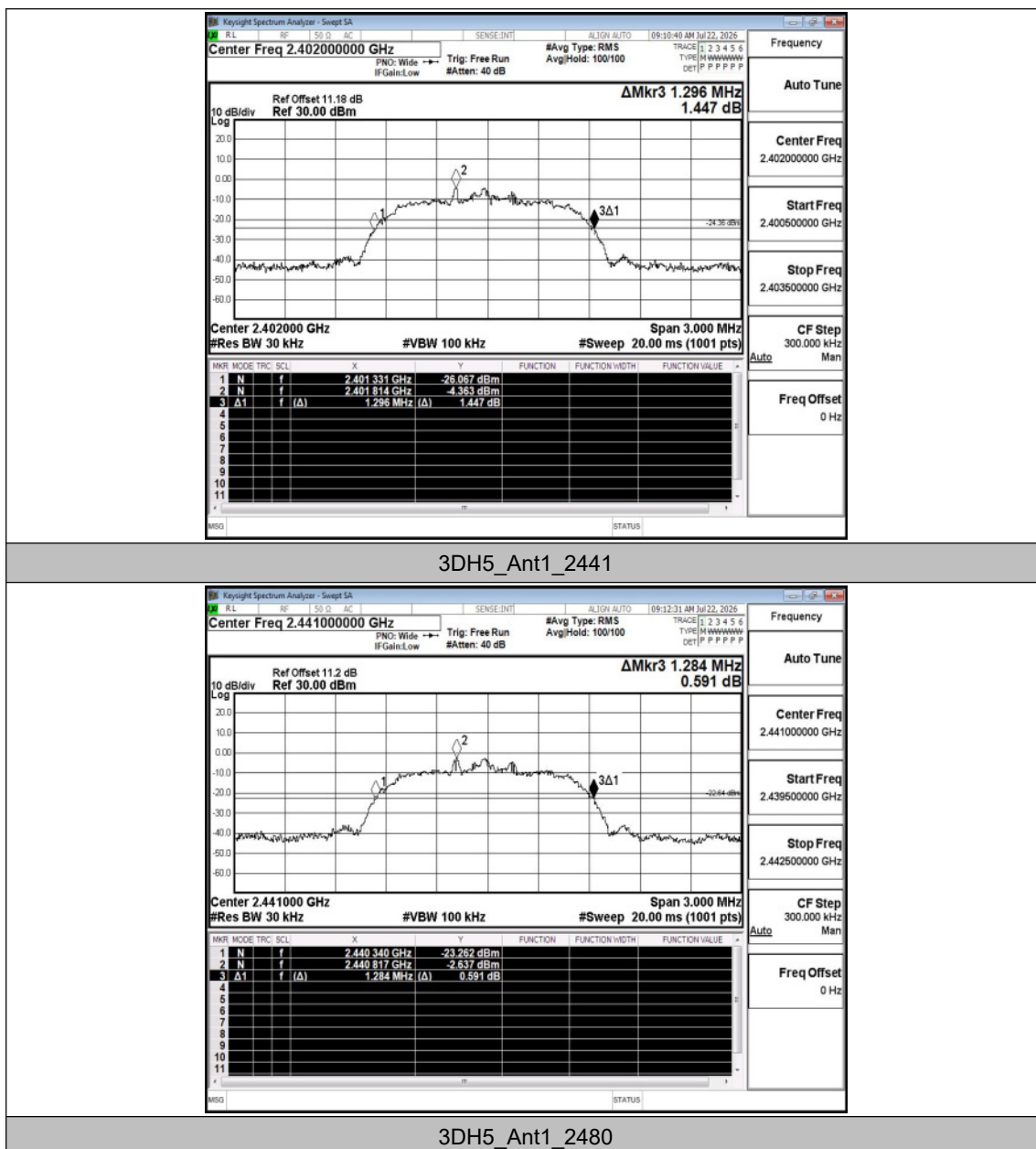


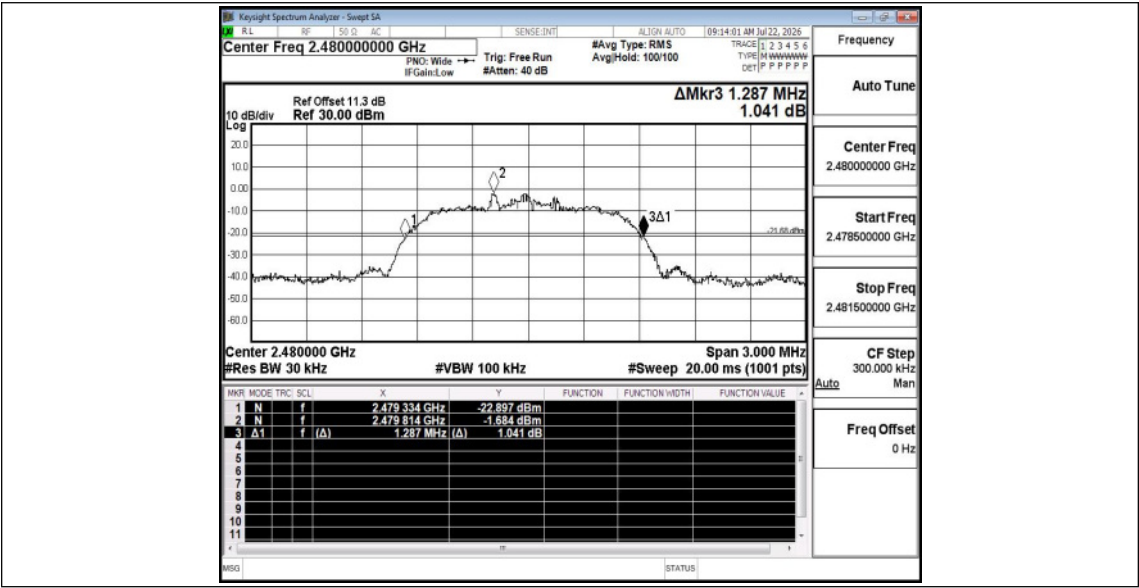


2DH5_Ant1_2480



3DH5_Ant1_2402





A.2 Maximum Peak conducted output power

Test Result

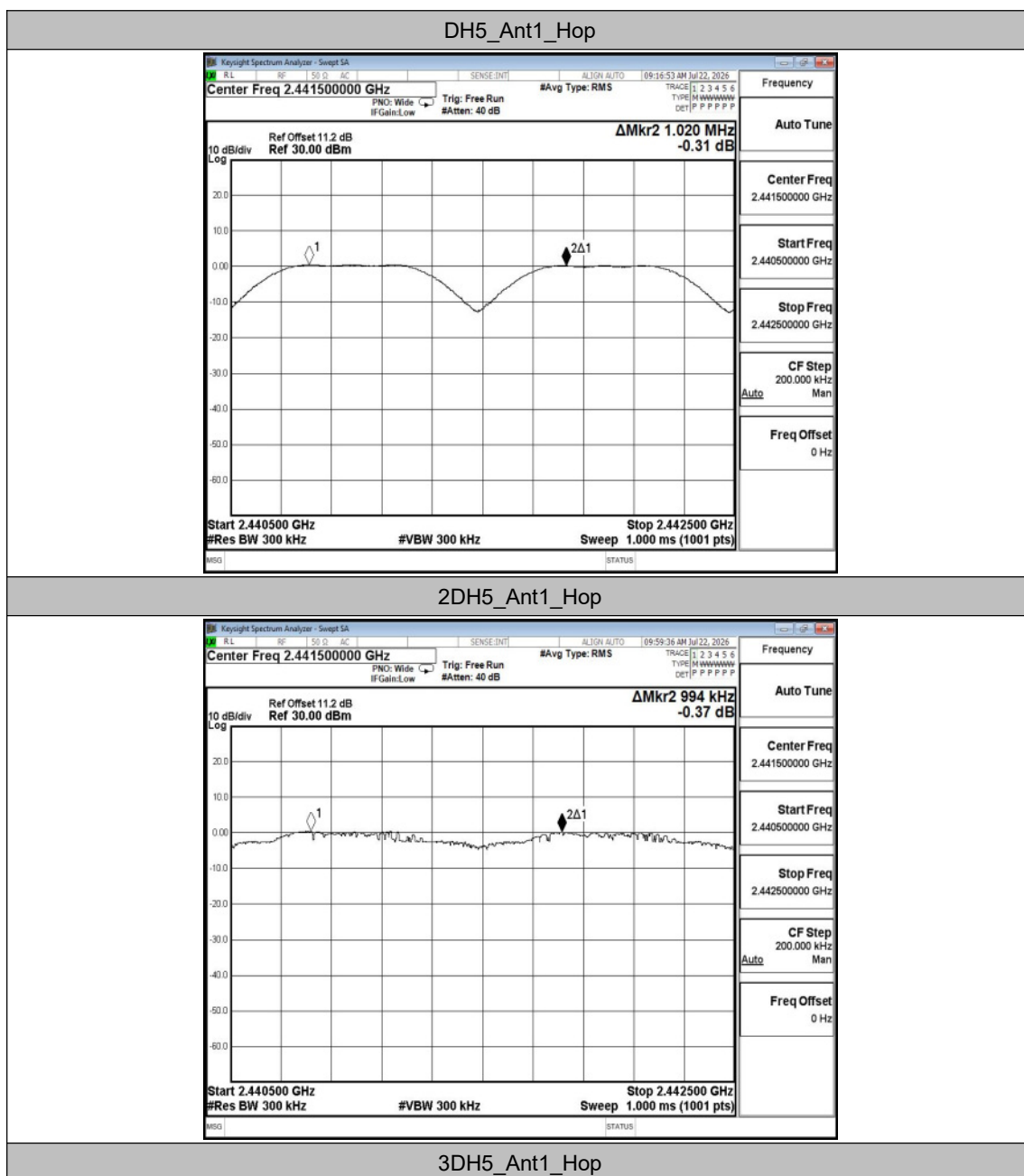
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.57	≤30	PASS
		2441	3.22	≤30	PASS
		2480	3.94	≤30	PASS
2DH5	Ant1	2402	2.54	≤20.97	PASS
		2441	3.13	≤20.97	PASS
		2480	3.75	≤20.97	PASS
3DH5	Ant1	2402	2.68	≤20.97	PASS
		2441	3.12	≤20.97	PASS
		2480	3.67	≤20.97	PASS

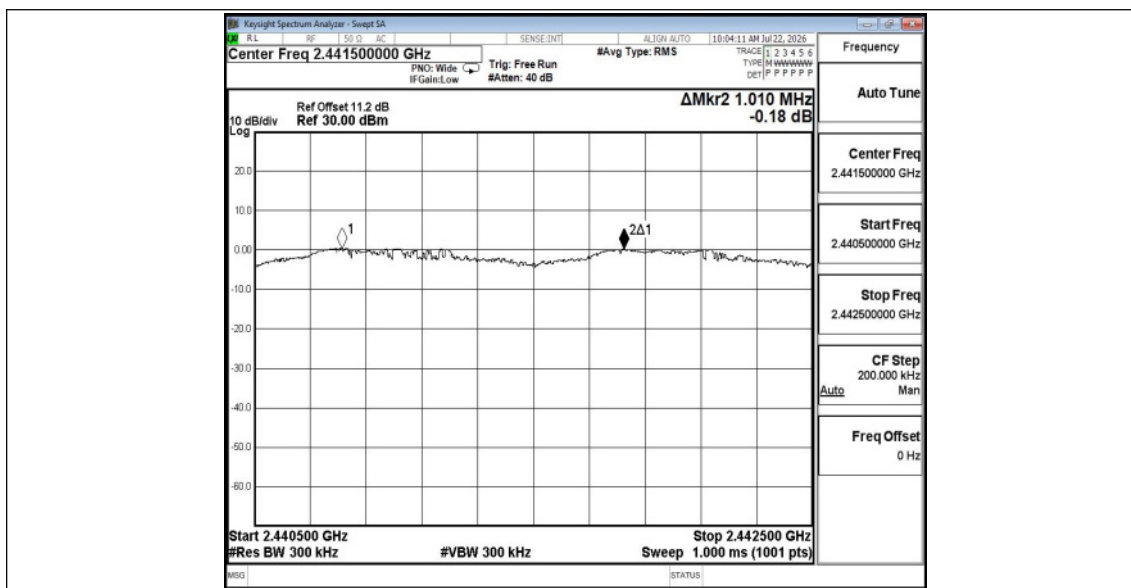
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥0.640	PASS
2DH5	Ant1	Hop	0.994	≥0.854	PASS
3DH5	Ant1	Hop	1.01	≥0.864	PASS

Test Graphs



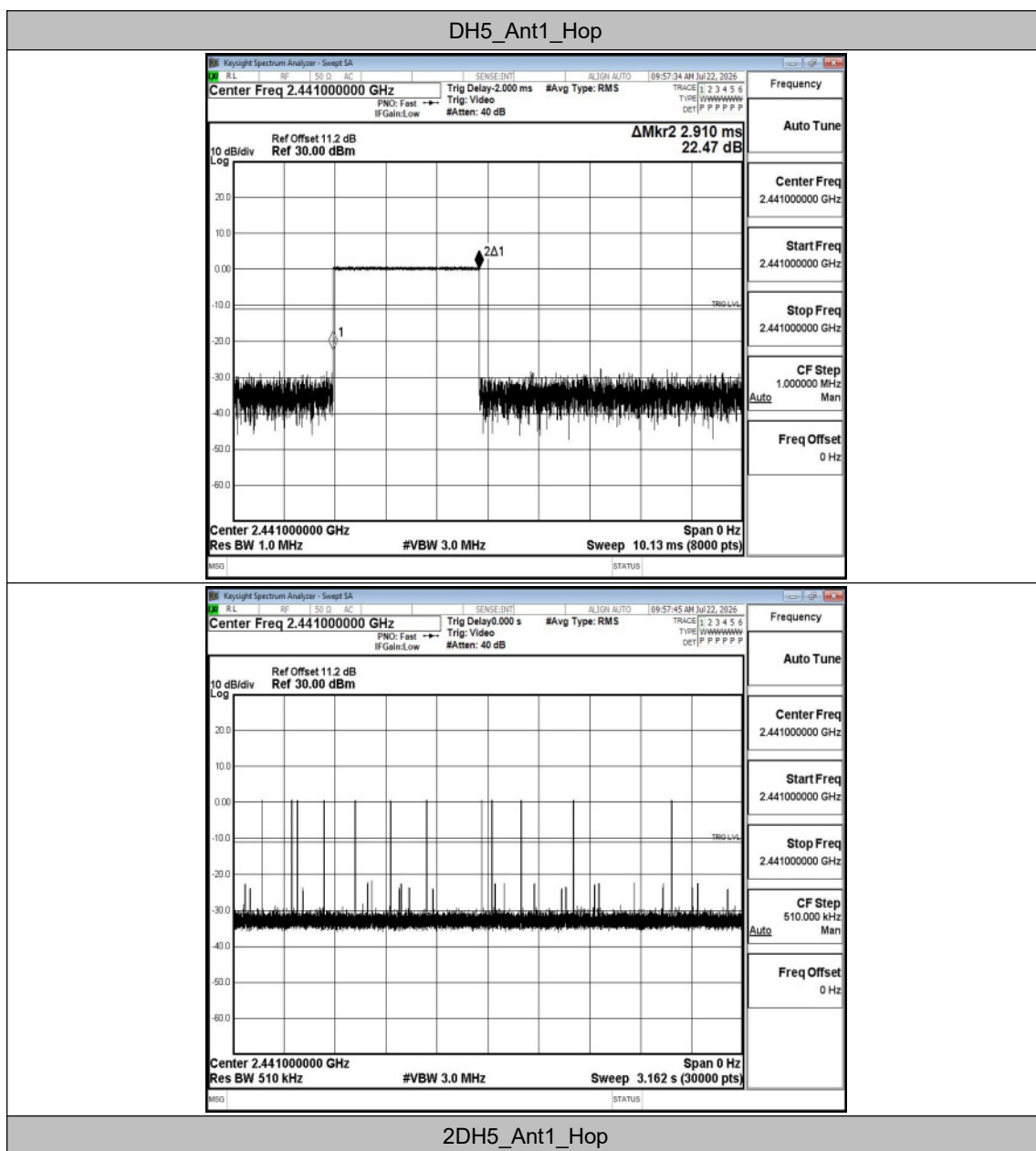


A.4 Time of occupancy

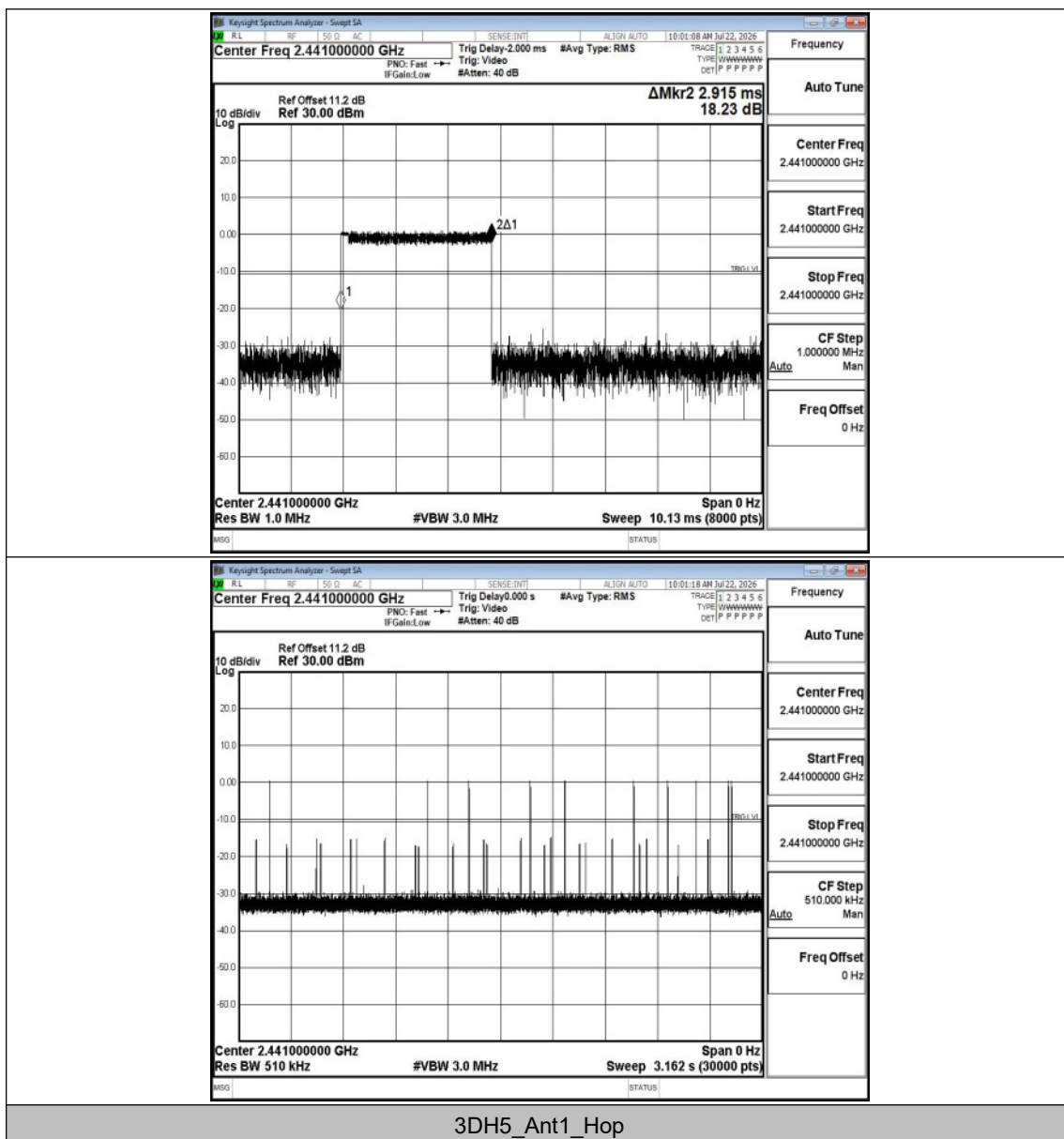
Test Result

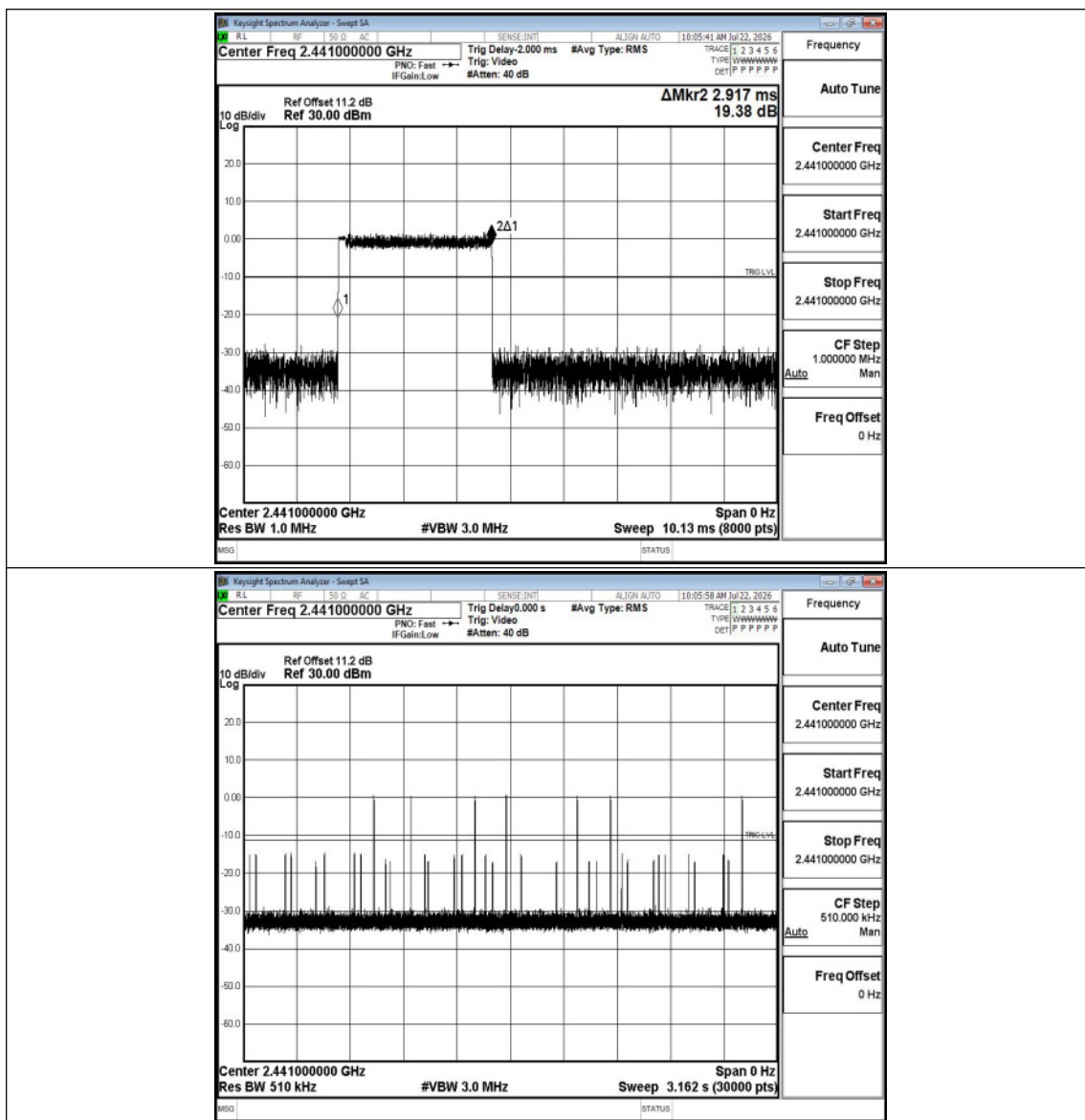
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.910	130	0.378	≤0.4	PASS
2DH5	Ant1	Hop	2.915	110	0.321	≤0.4	PASS
3DH5	Ant1	Hop	2.917	80	0.233	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



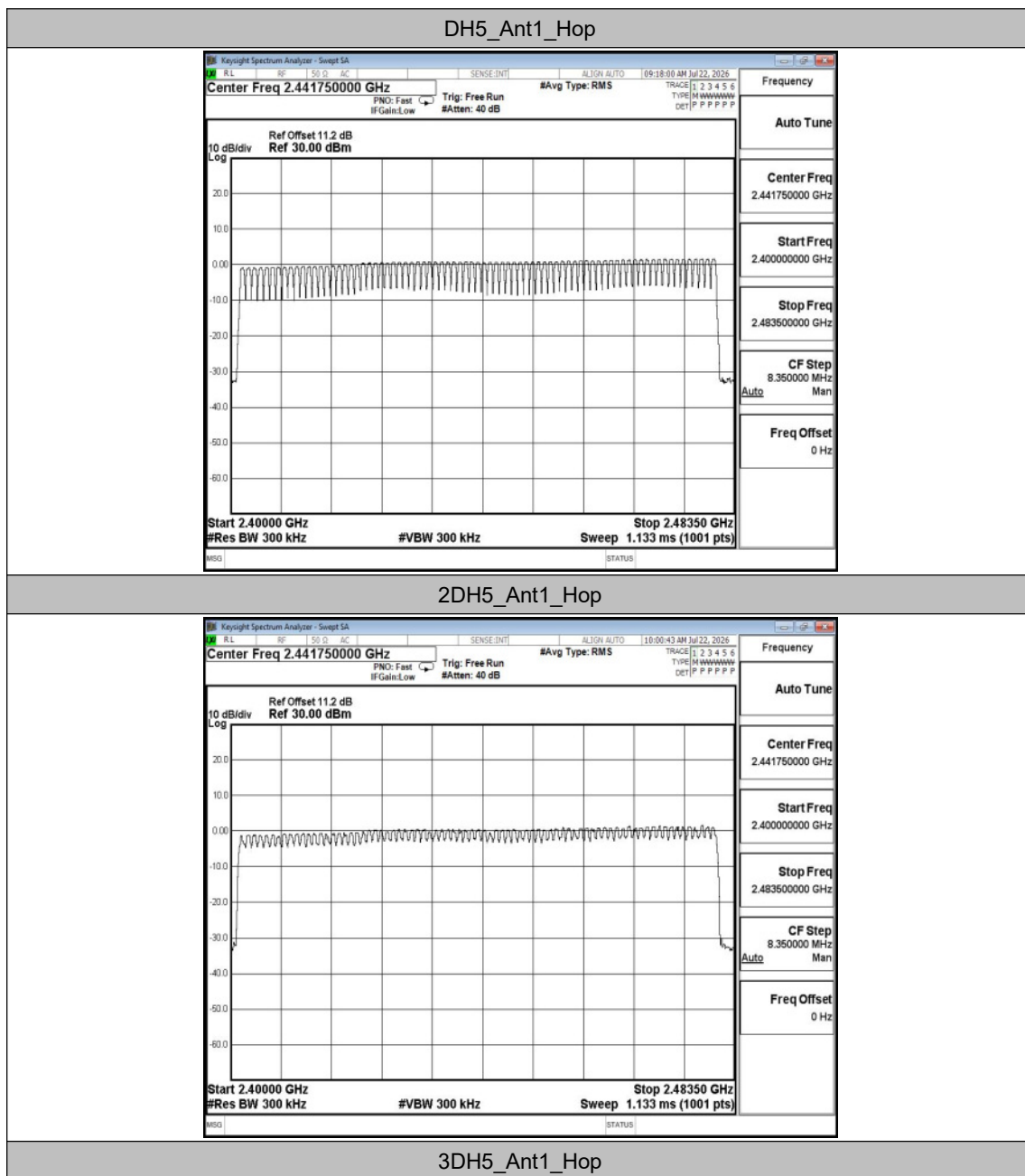


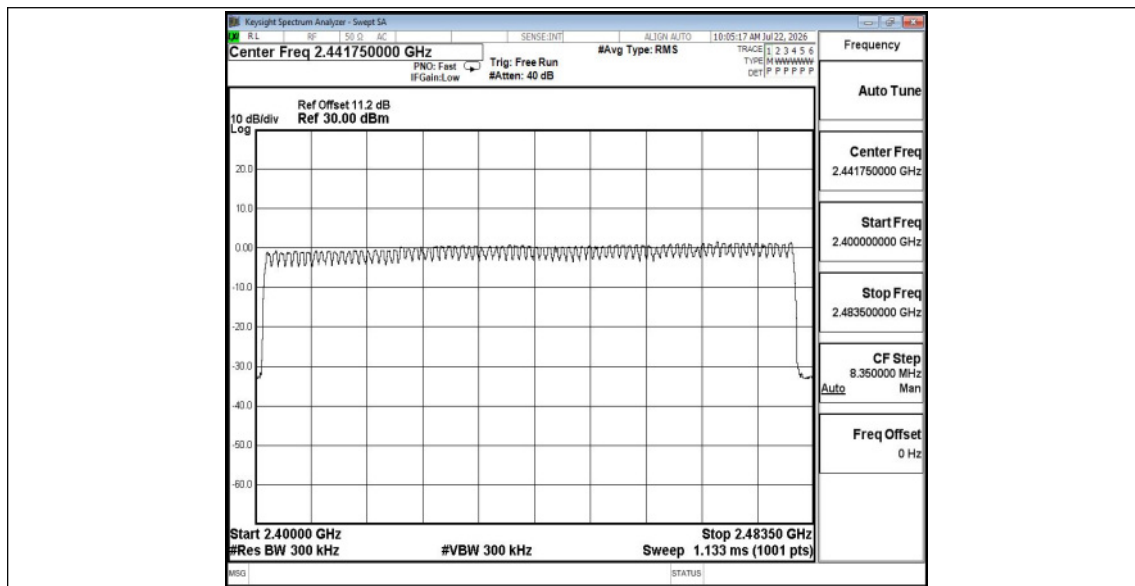
A.5 Number of hopping channels

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

Test Graphs



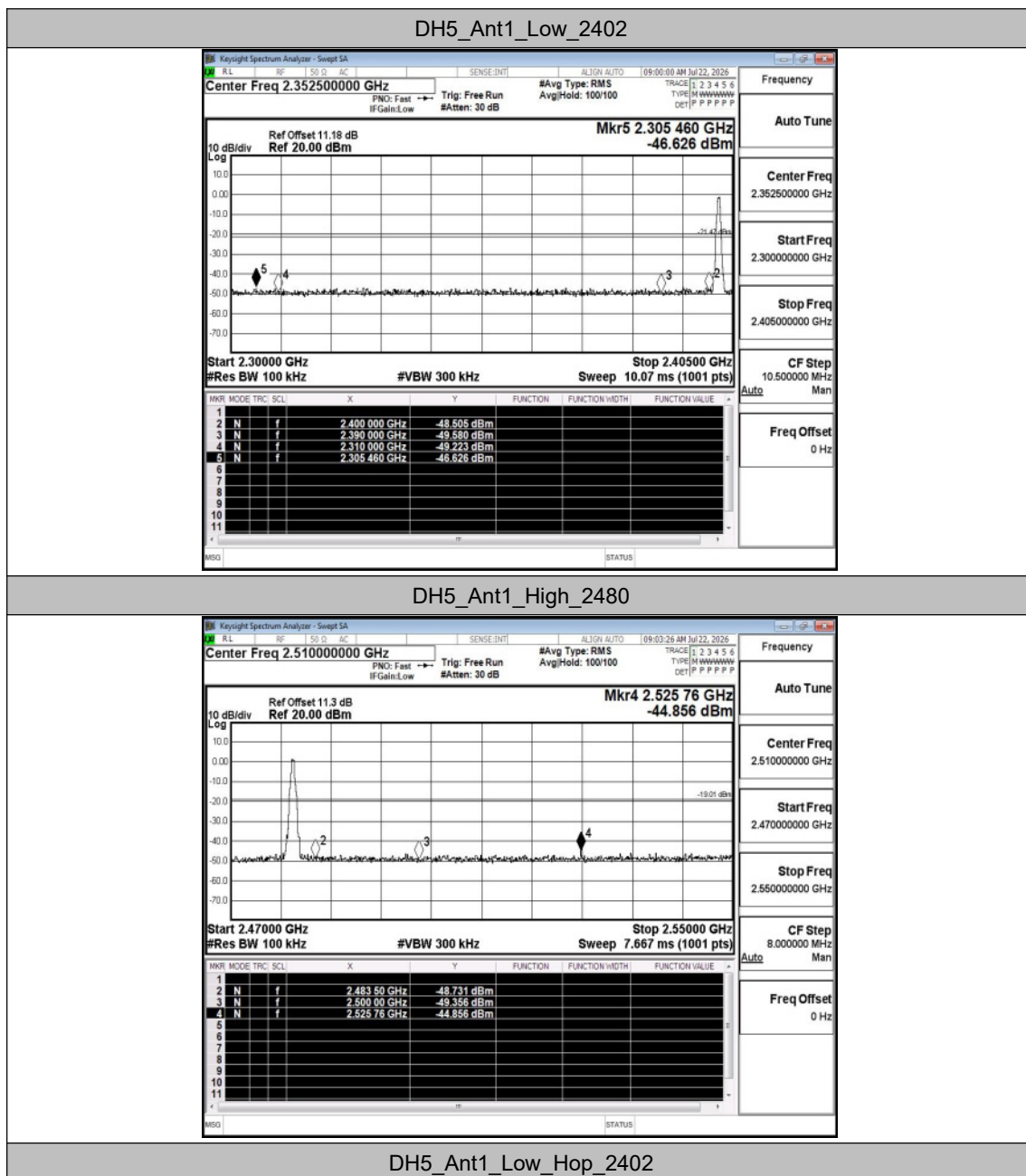


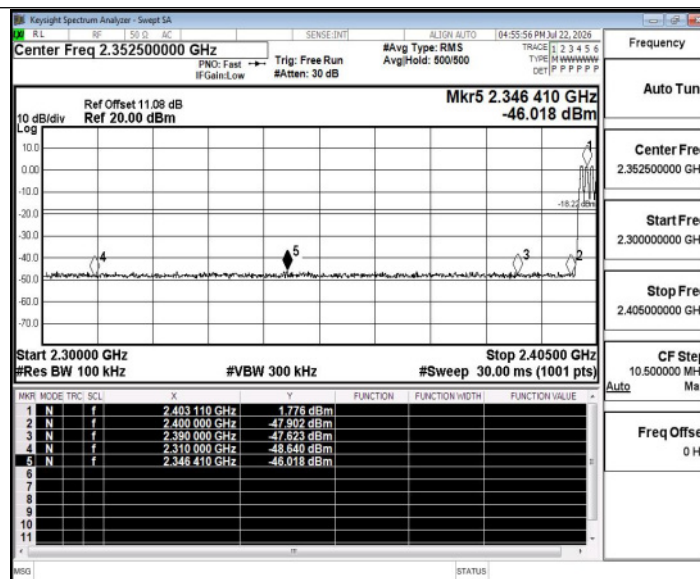
A.6 Band edge measurements

Test Result

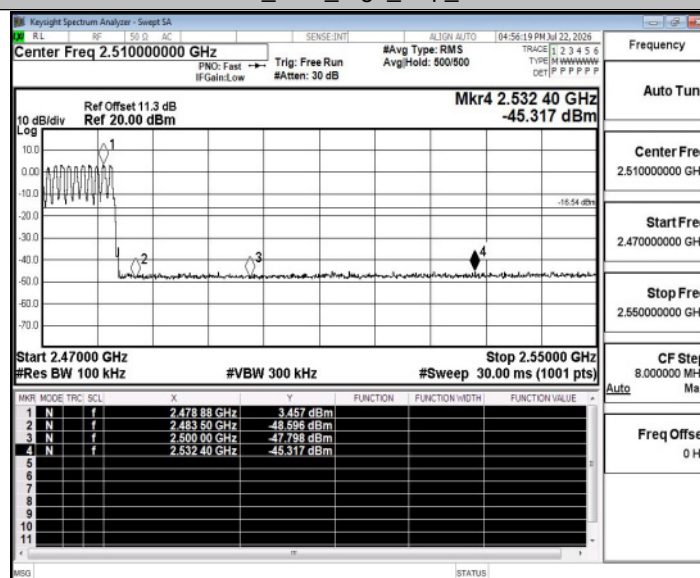
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.47	-46.63	≤ -21.47	PASS
		High	2480	0.99	-44.86	≤ -19.01	PASS
		Low	Hop_2402	1.78	-46.02	≤ -18.22	PASS
		High	Hop_2480	3.46	-45.32	≤ -16.54	PASS
2DH5	Ant1	Low	2402	-1.38	-46.4	≤ -21.38	PASS
		High	2480	0.19	-45.69	≤ -19.81	PASS
		Low	Hop_2402	1.32	-45.66	≤ -18.68	PASS
		High	Hop_2480	3.07	-45	≤ -16.93	PASS
3DH5	Ant1	Low	2402	-1.58	-45.25	≤ -21.58	PASS
		High	2480	0.14	-45.47	≤ -19.86	PASS
		Low	Hop_2402	-0.16	-45.07	≤ -20.16	PASS
		High	Hop_2480	3.57	-44.43	≤ -16.43	PASS

Test Graphs

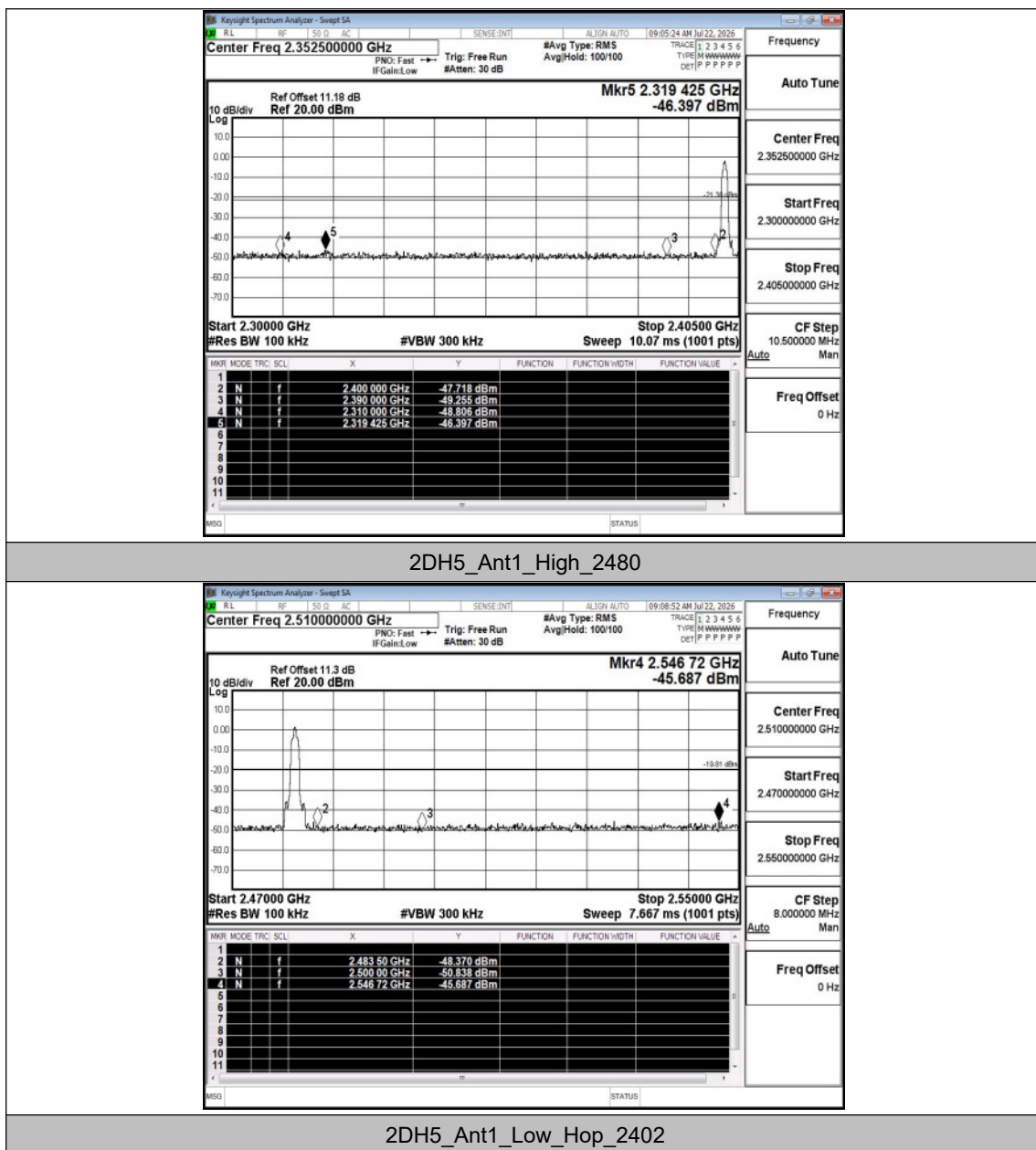


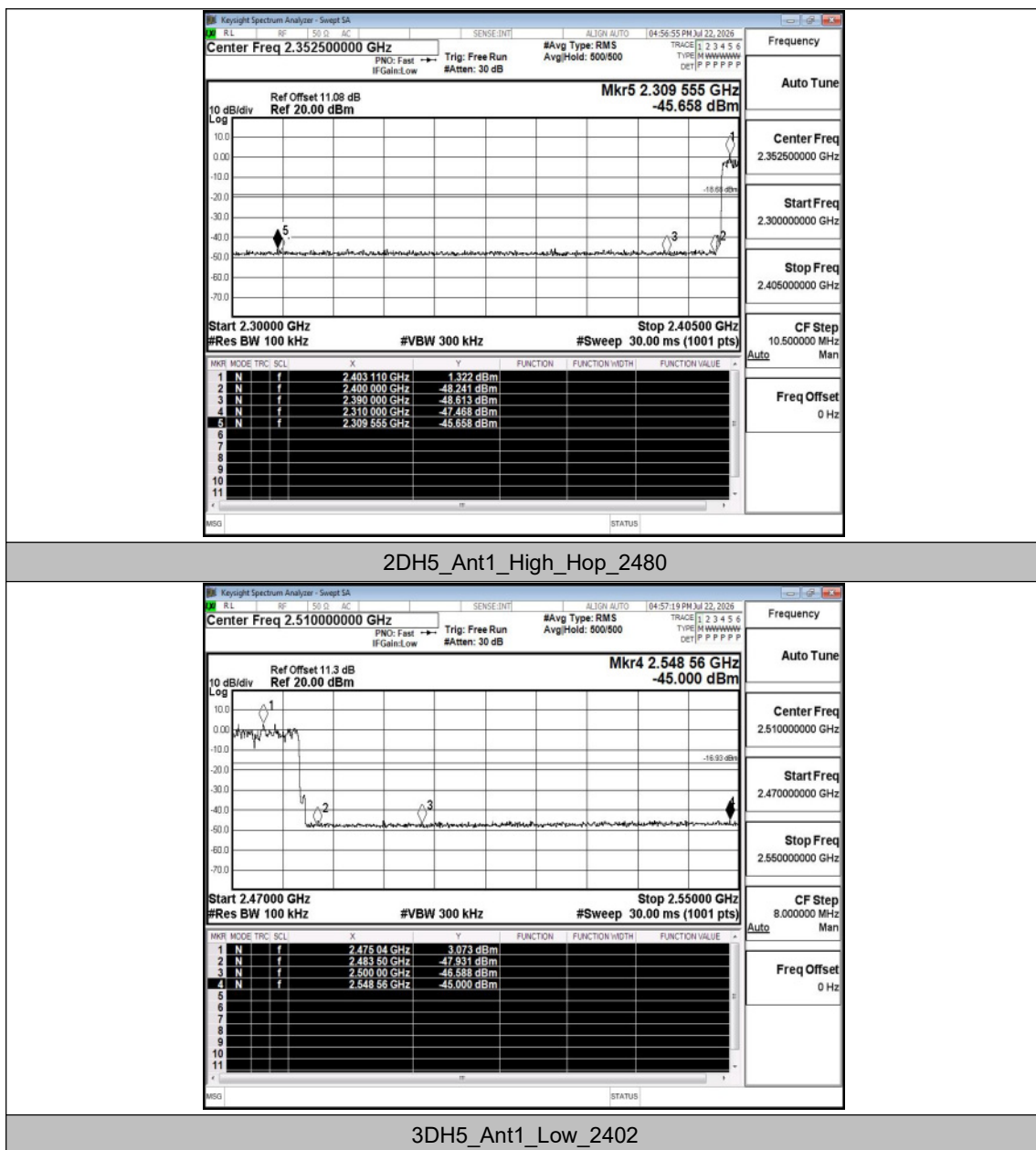


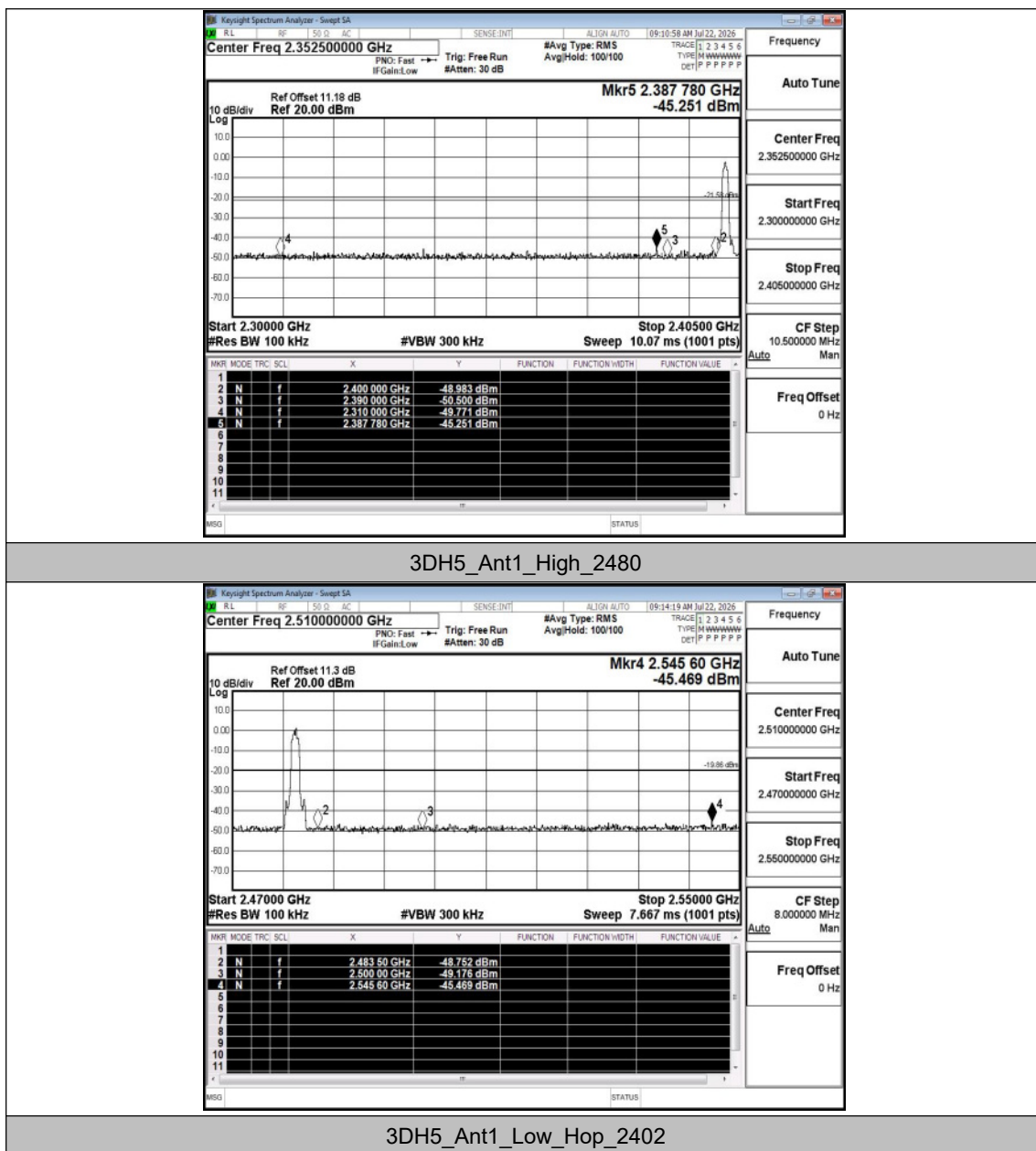
DH5_Ant1_High_Hop_2480

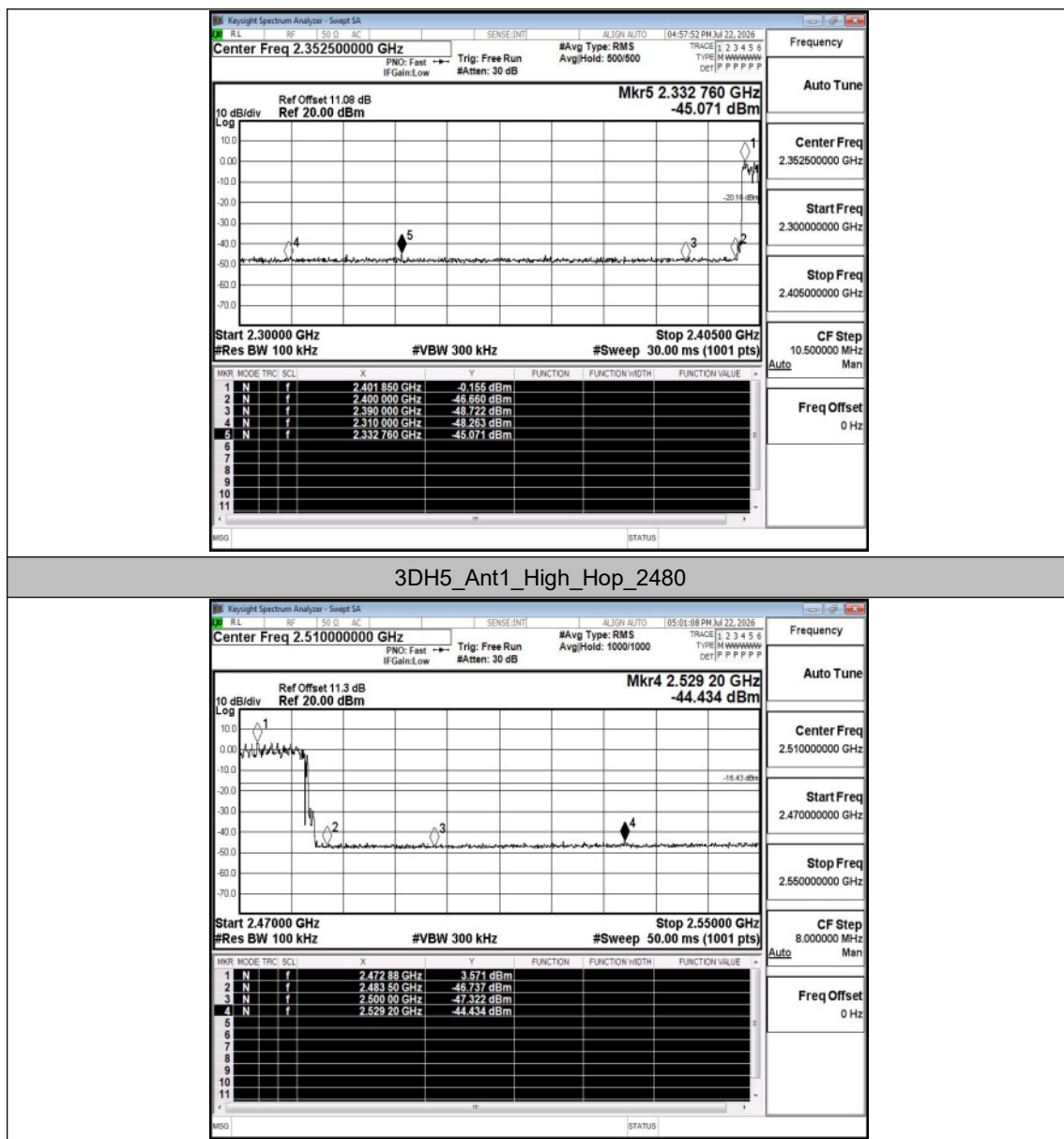


2DH5 Ant1 Low 2402







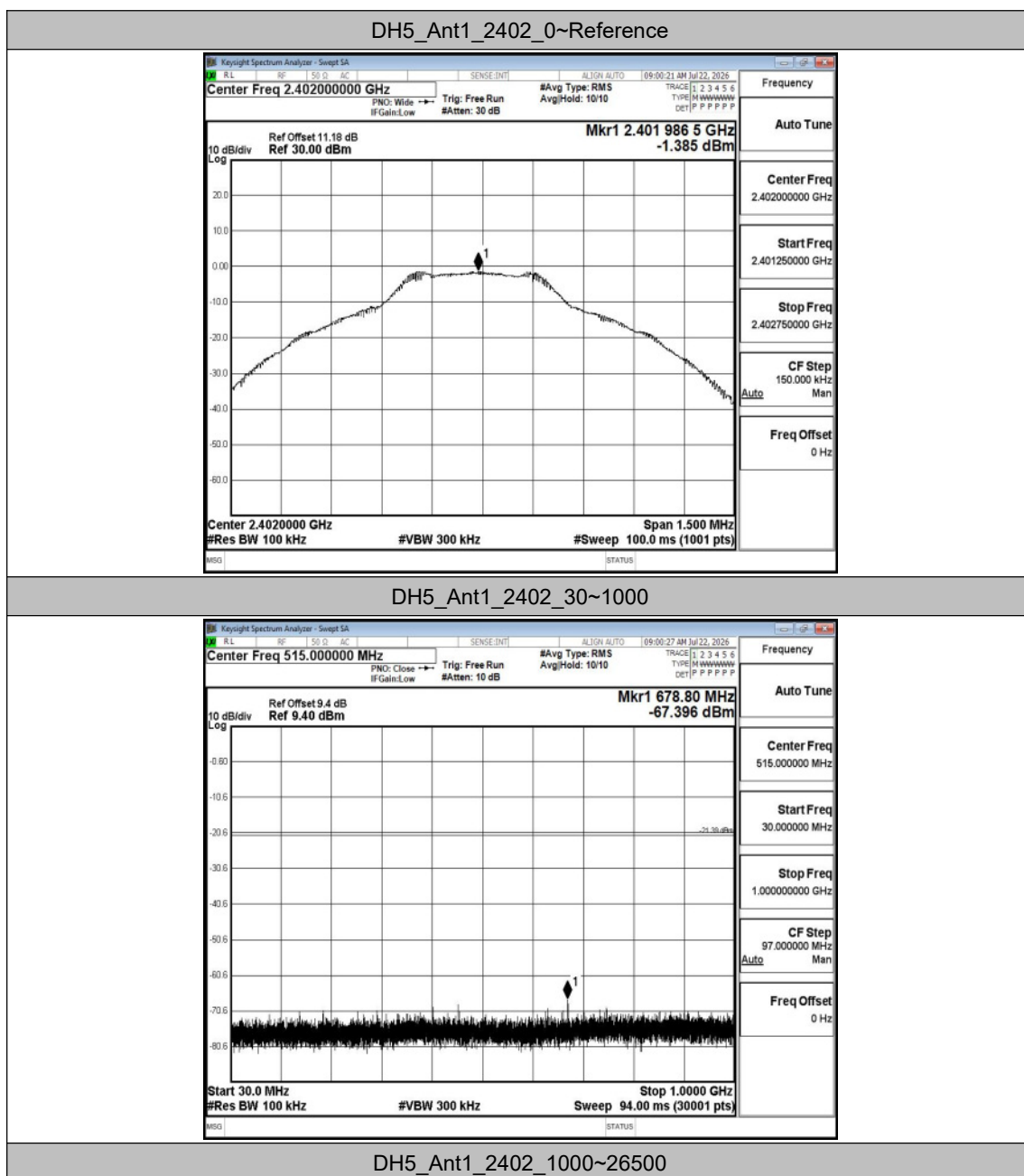


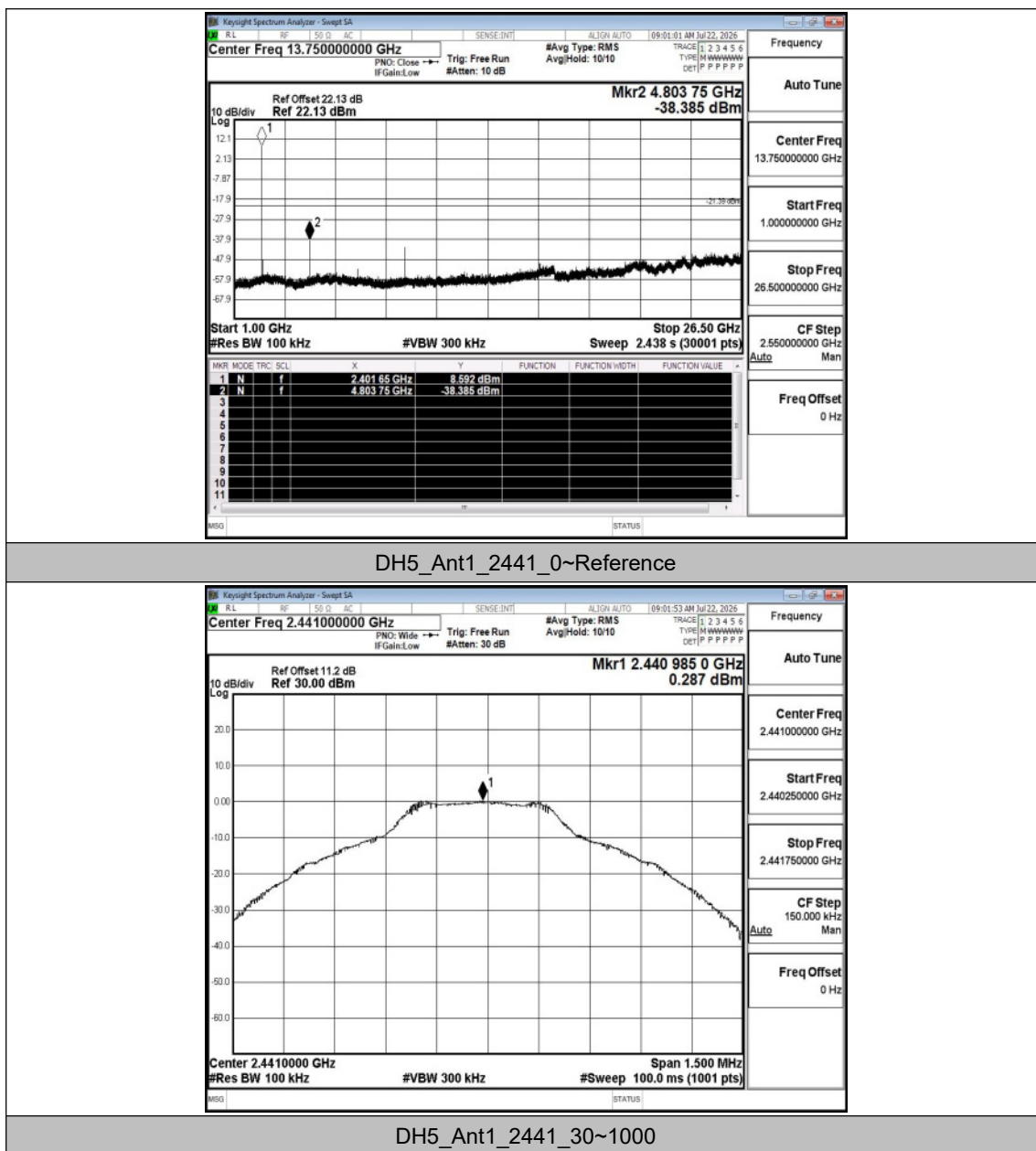
A.7 Conducted Spurious Emission

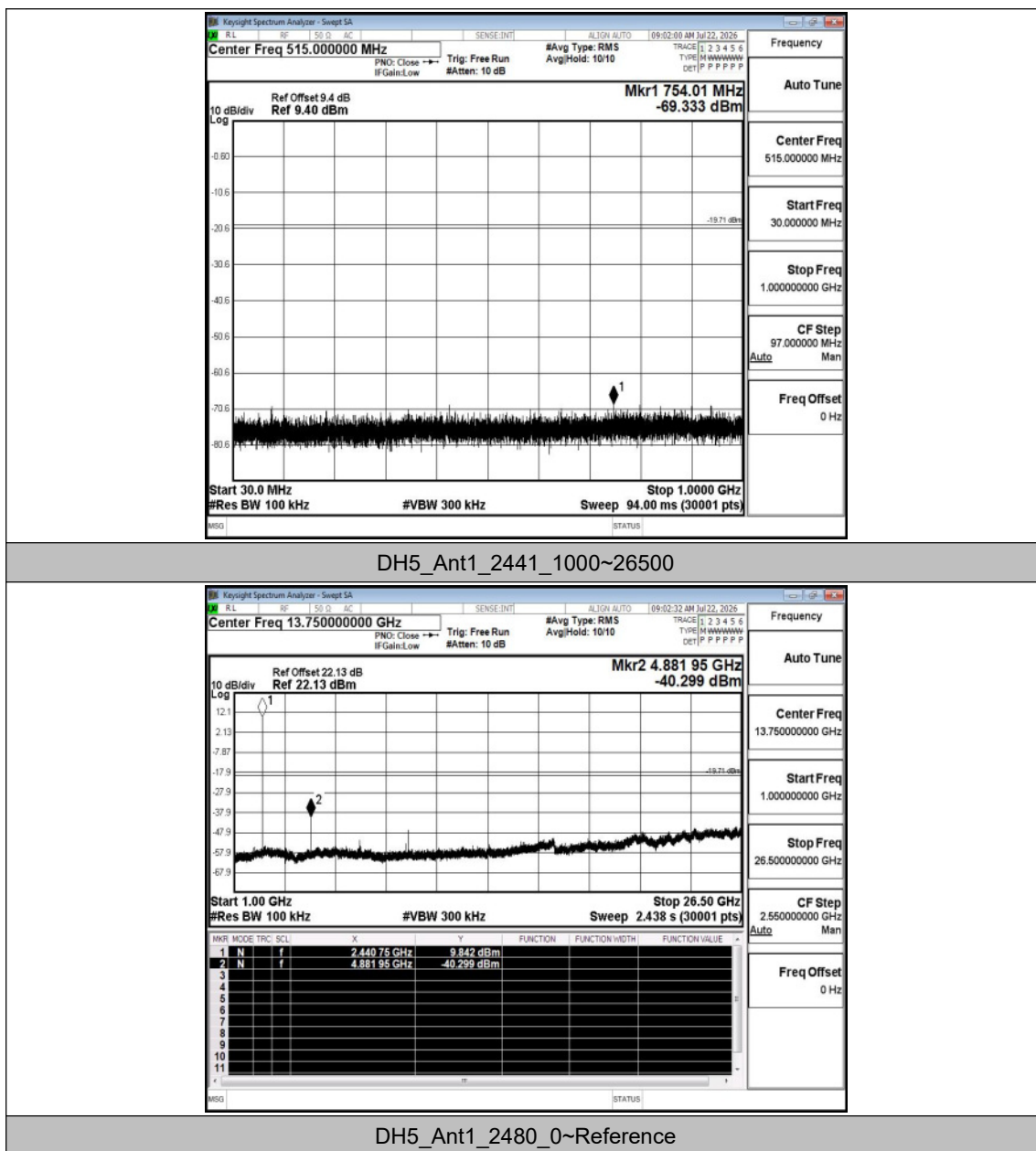
Test Result

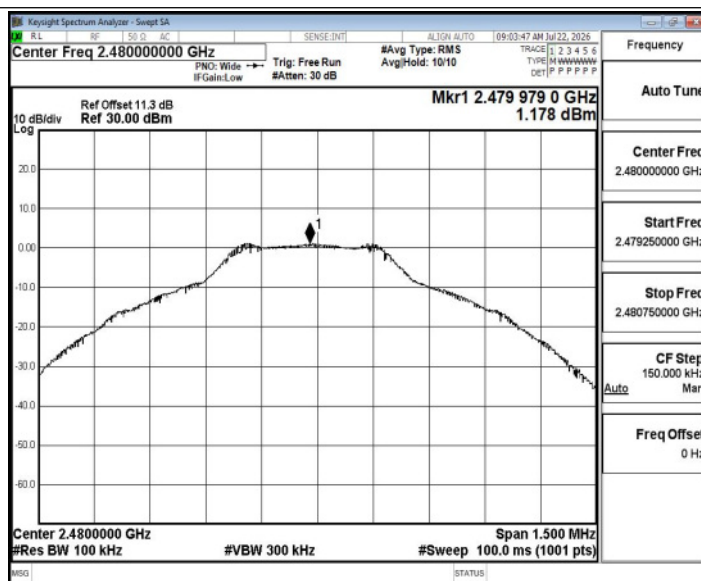
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-67.4	≤-21.39	PASS
			1000~26500	-1.39	-38.39	≤-21.39	PASS
		2441	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-69.33	≤-19.71	PASS
			1000~26500	0.29	-40.3	≤-19.71	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-65.94	≤-18.82	PASS
			1000~26500	1.18	-40.52	≤-18.82	PASS
2DH5	Ant1	2402	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-69.67	≤-21.38	PASS
			1000~26500	-1.38	-43.98	≤-21.38	PASS
		2441	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-69.34	≤-19.72	PASS
			1000~26500	0.28	-39.14	≤-19.72	PASS
		2480	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-68.82	≤-18.83	PASS
			1000~26500	1.17	-44.26	≤-18.83	PASS
3DH5	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-70.11	≤-21.35	PASS
			1000~26500	-1.35	-42.76	≤-21.35	PASS
		2441	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-68.32	≤-19.69	PASS
			1000~26500	0.31	-39.57	≤-19.69	PASS
		2480	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-68.71	≤-18.82	PASS
			1000~26500	1.18	-39.27	≤-18.82	PASS

Test Graphs

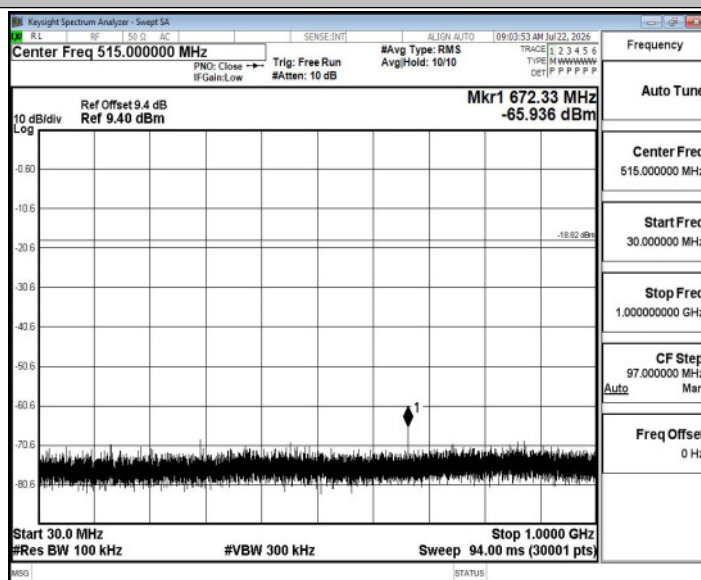




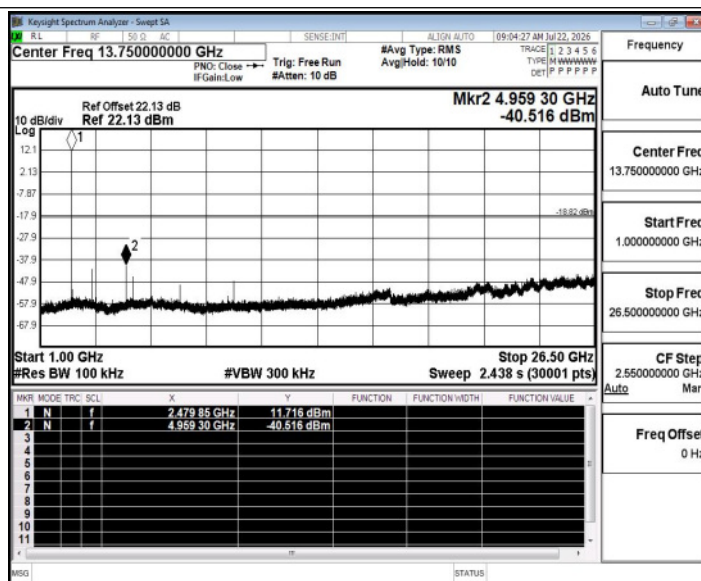




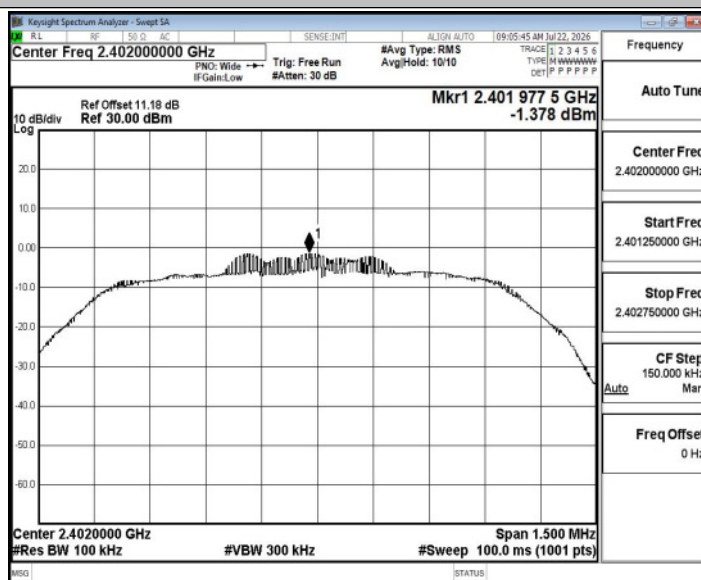
DH5_Ant1_2480_30~1000



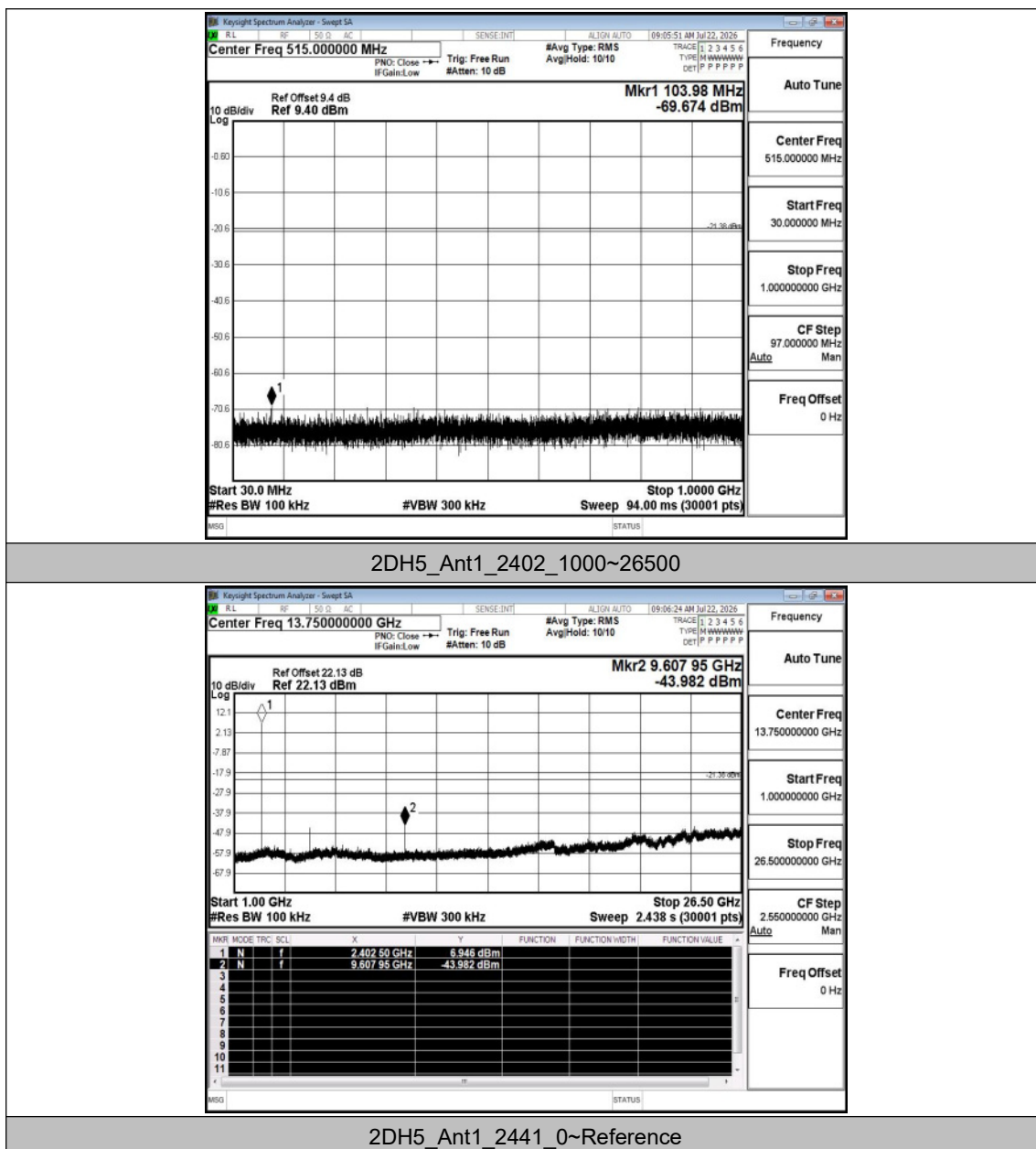
DH5_Ant1_2480_1000~26500

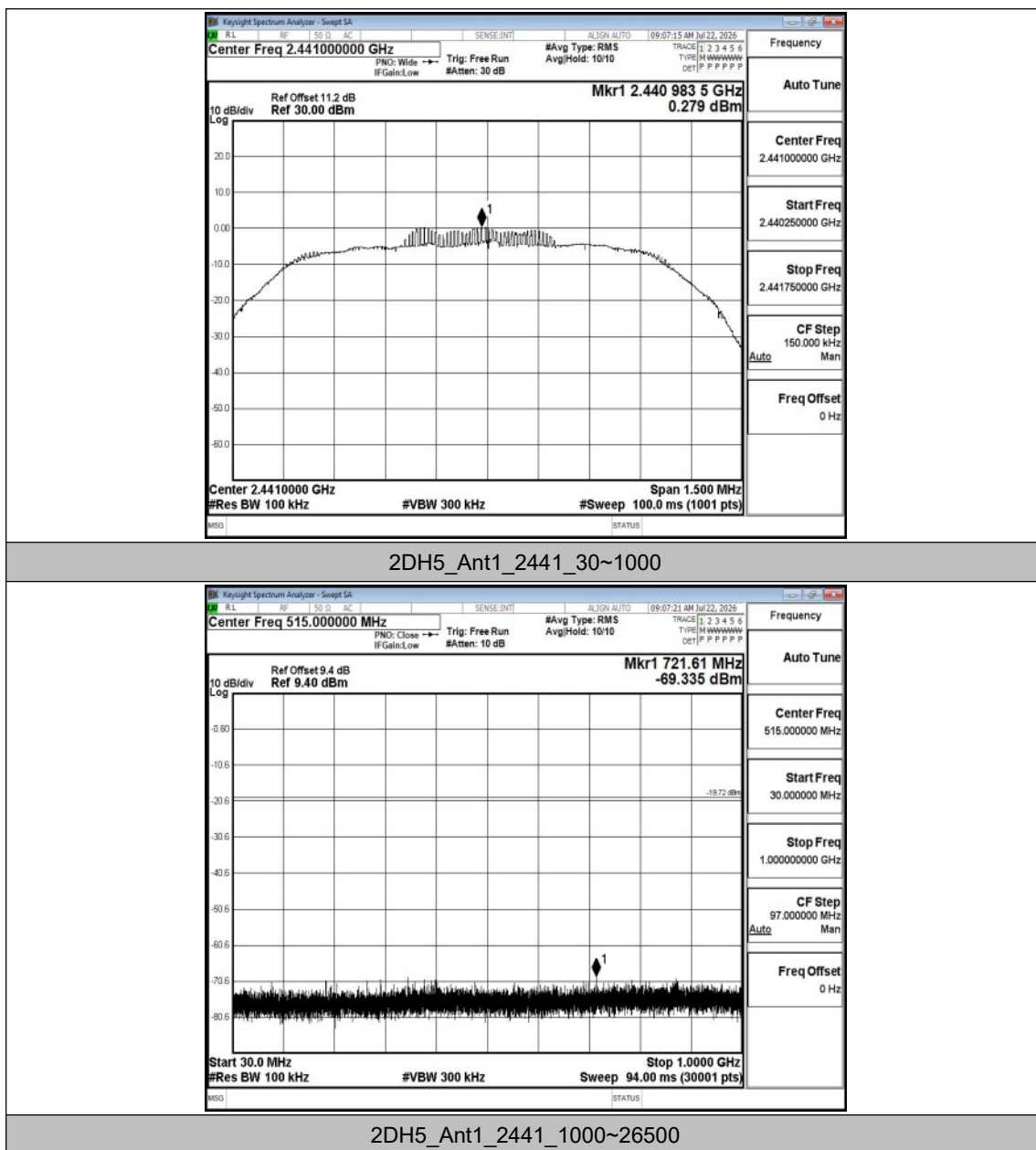


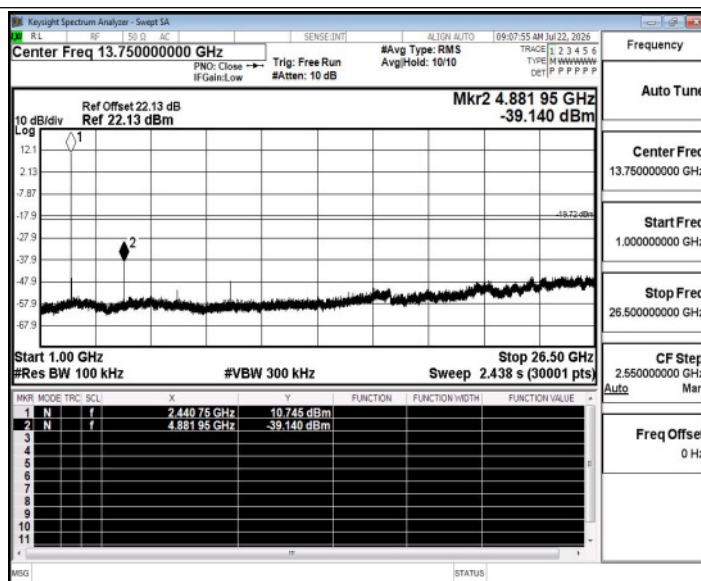
2DH5_Ant1_2402_0~Reference



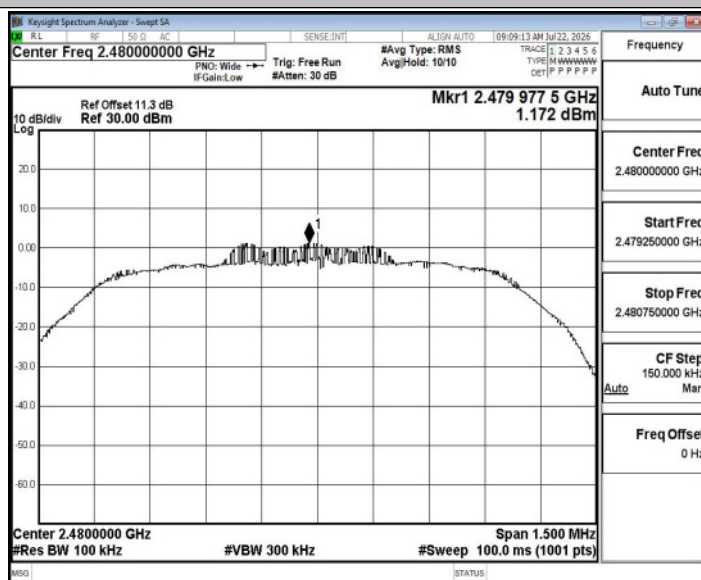
2DH5_Ant1_2402_30~1000



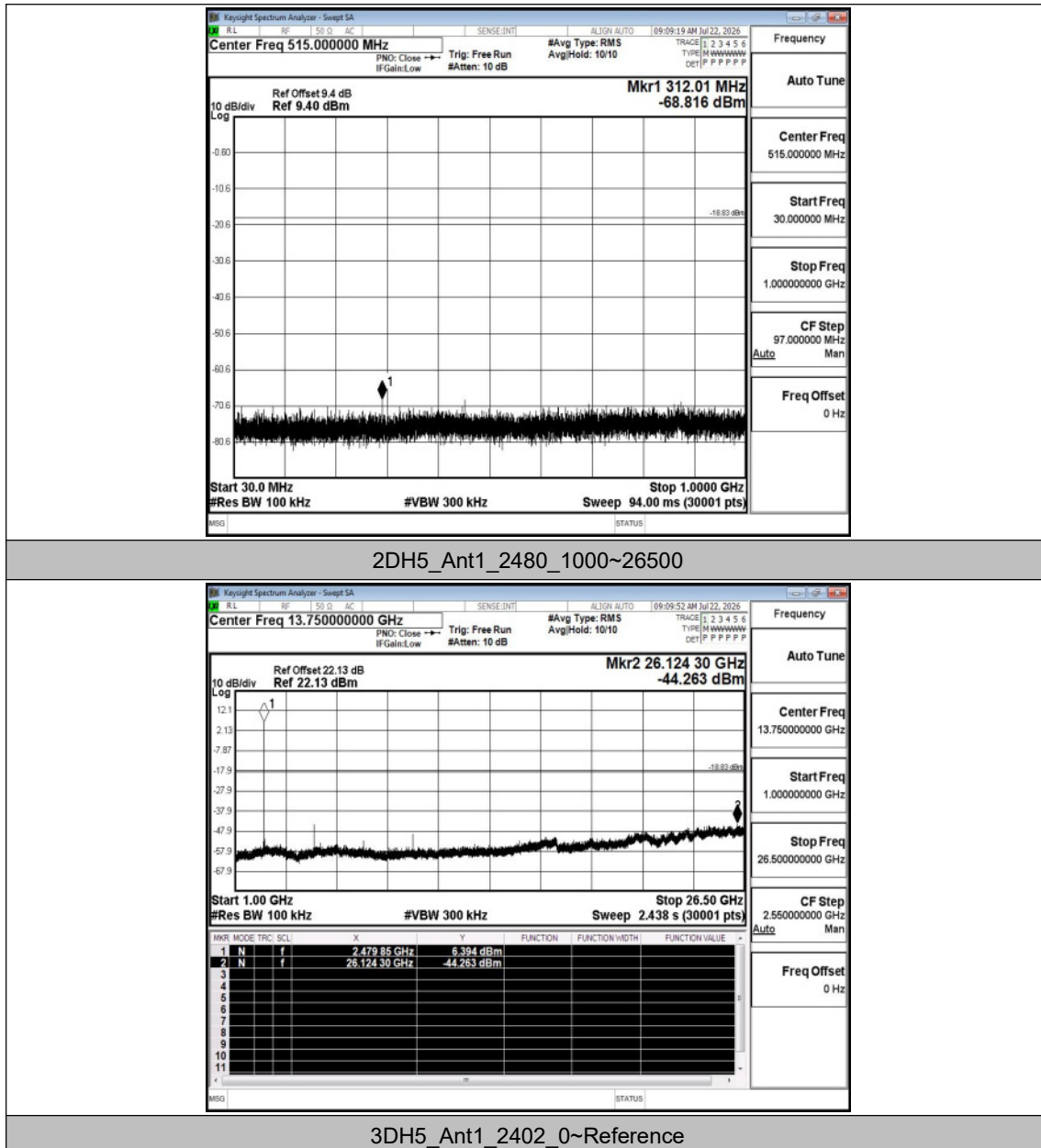


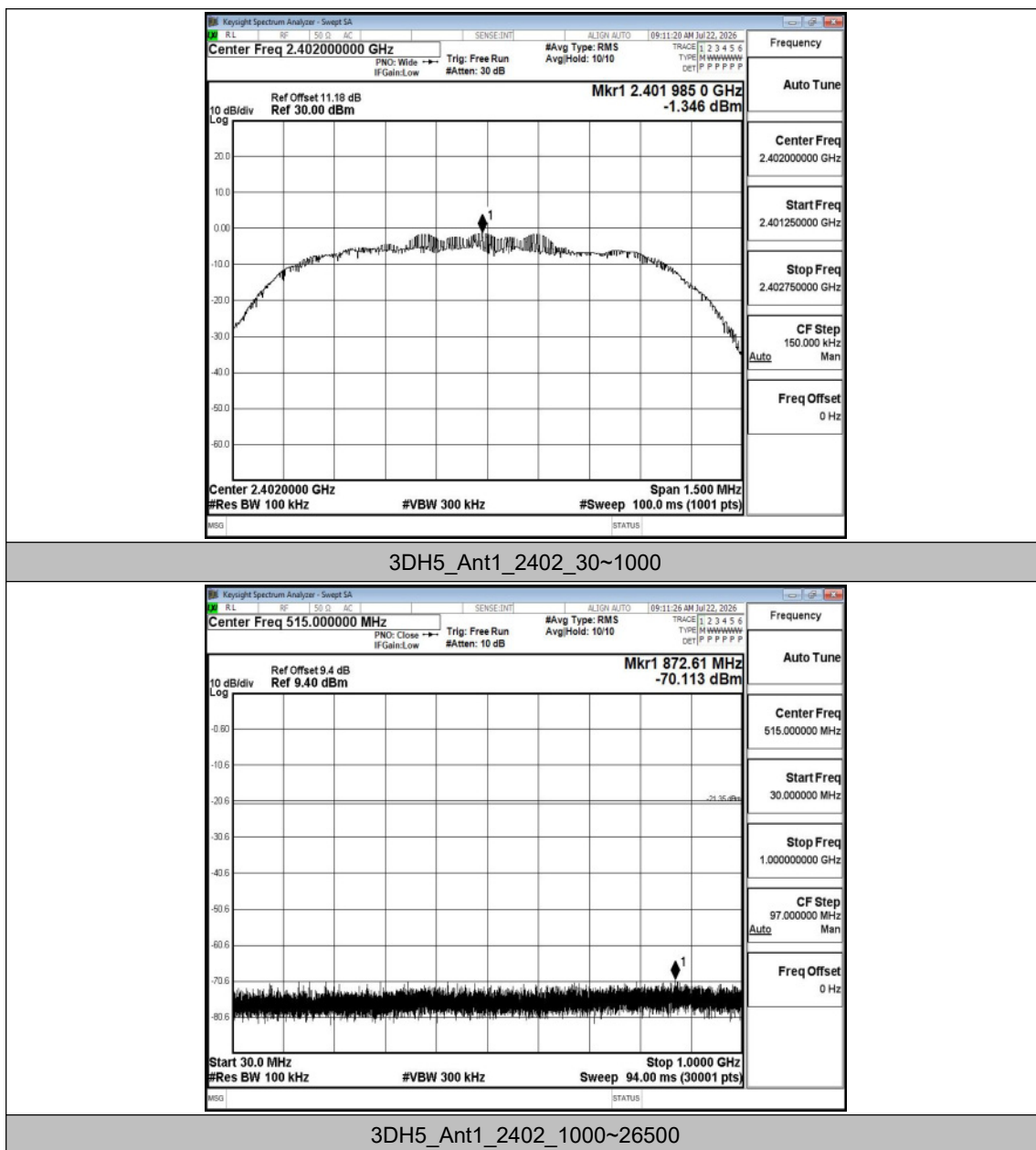


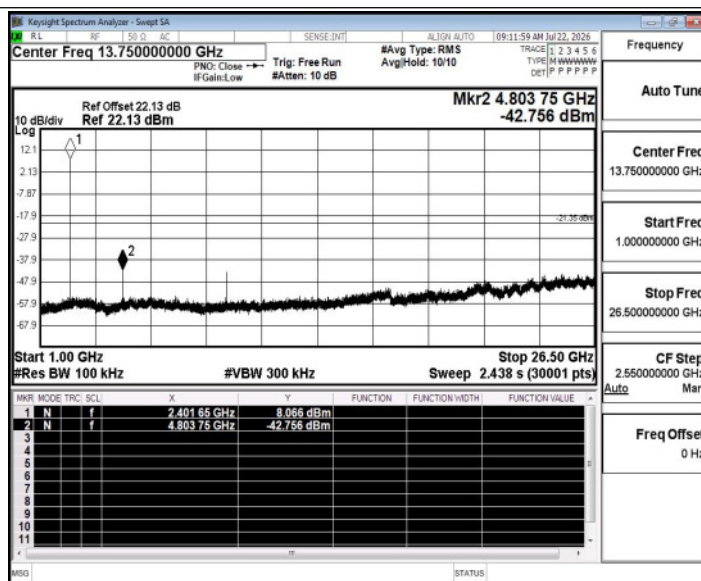
2DH5_Ant1_2480_0~Reference



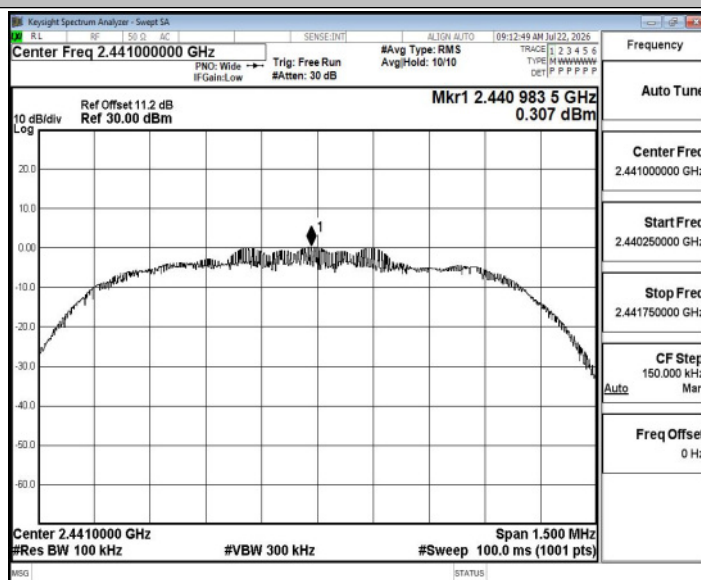
2DH5_Ant1_2480_30~1000



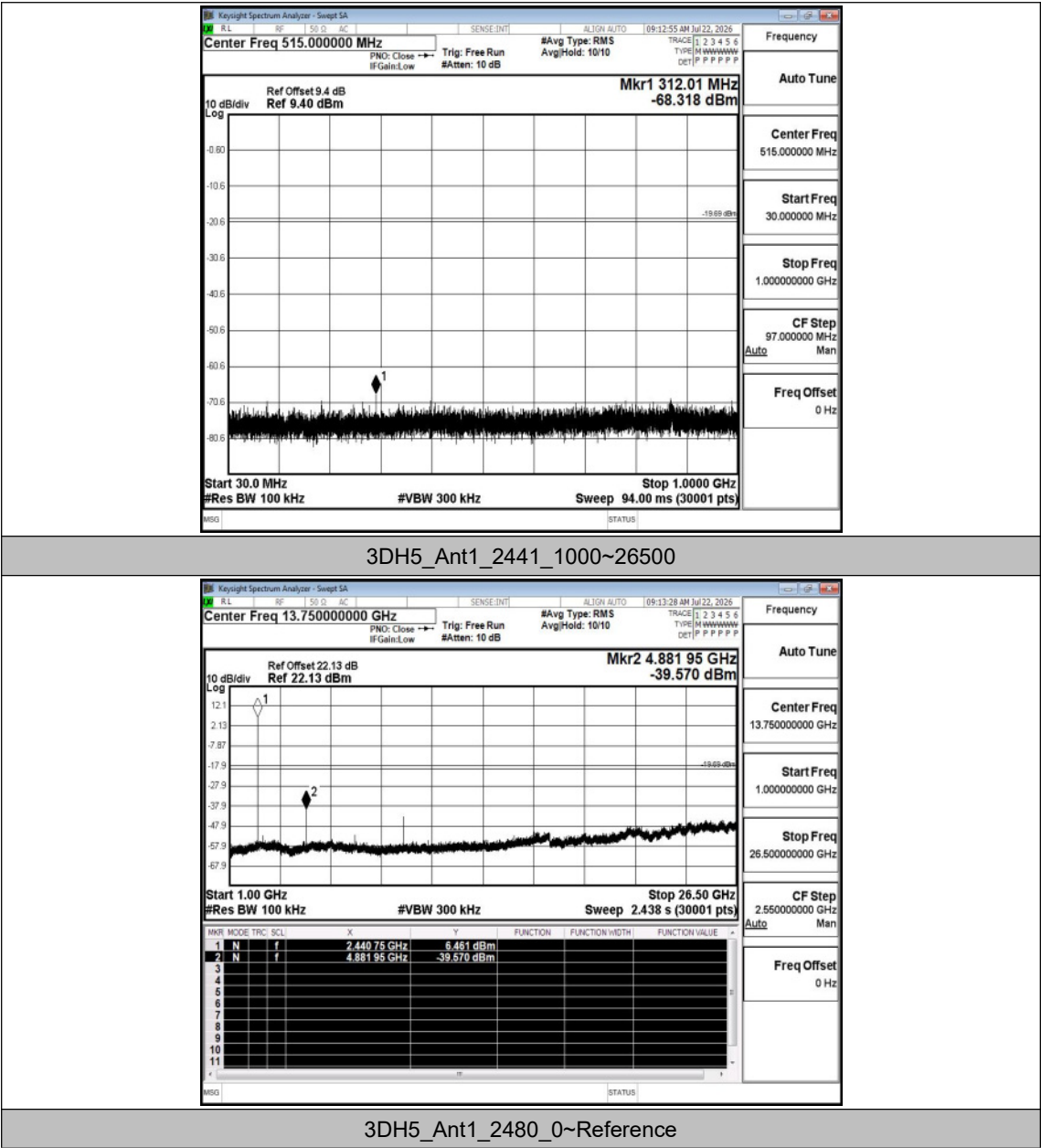


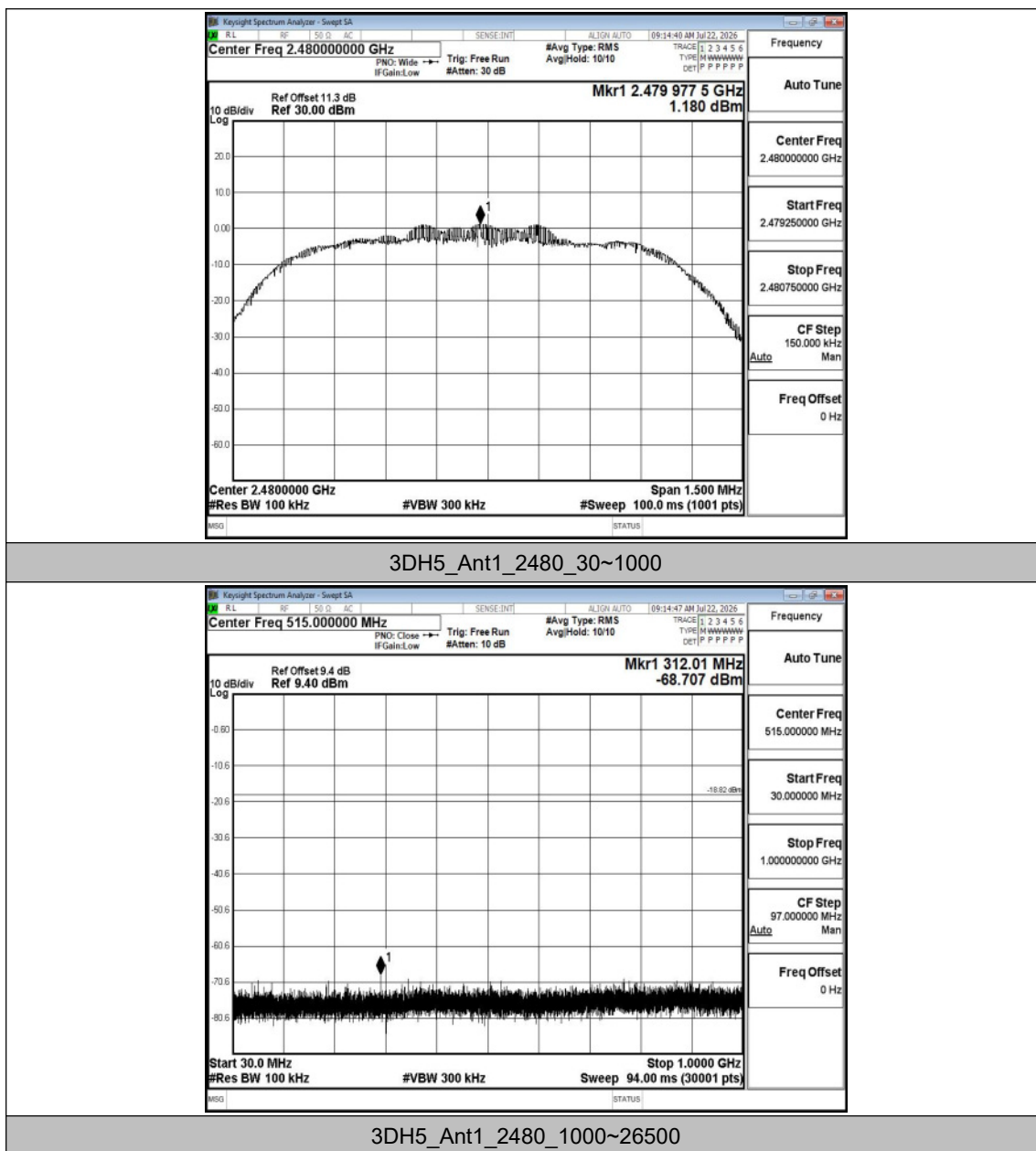


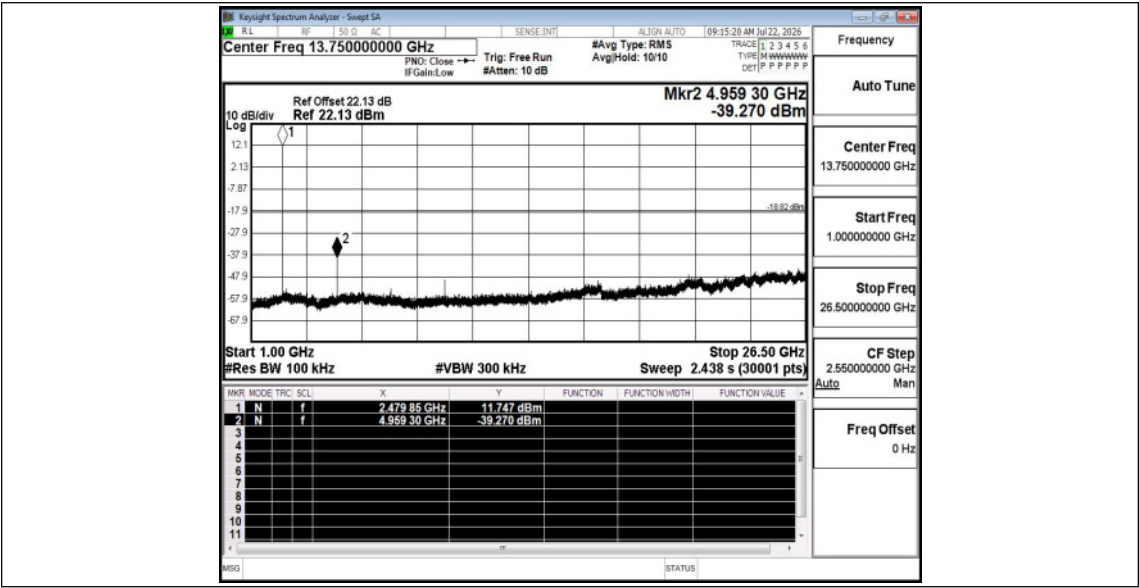
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000







A.8 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.76	77.66	1.10	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.76	77.66	1.10	---	---
2DH5	Ant1	2402	2.92	3.76	77.66	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.76	77.66	1.10	---	---
3DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

Test Graphs

