

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: laptop

Test Model: MLSE001

Environmental Conditions

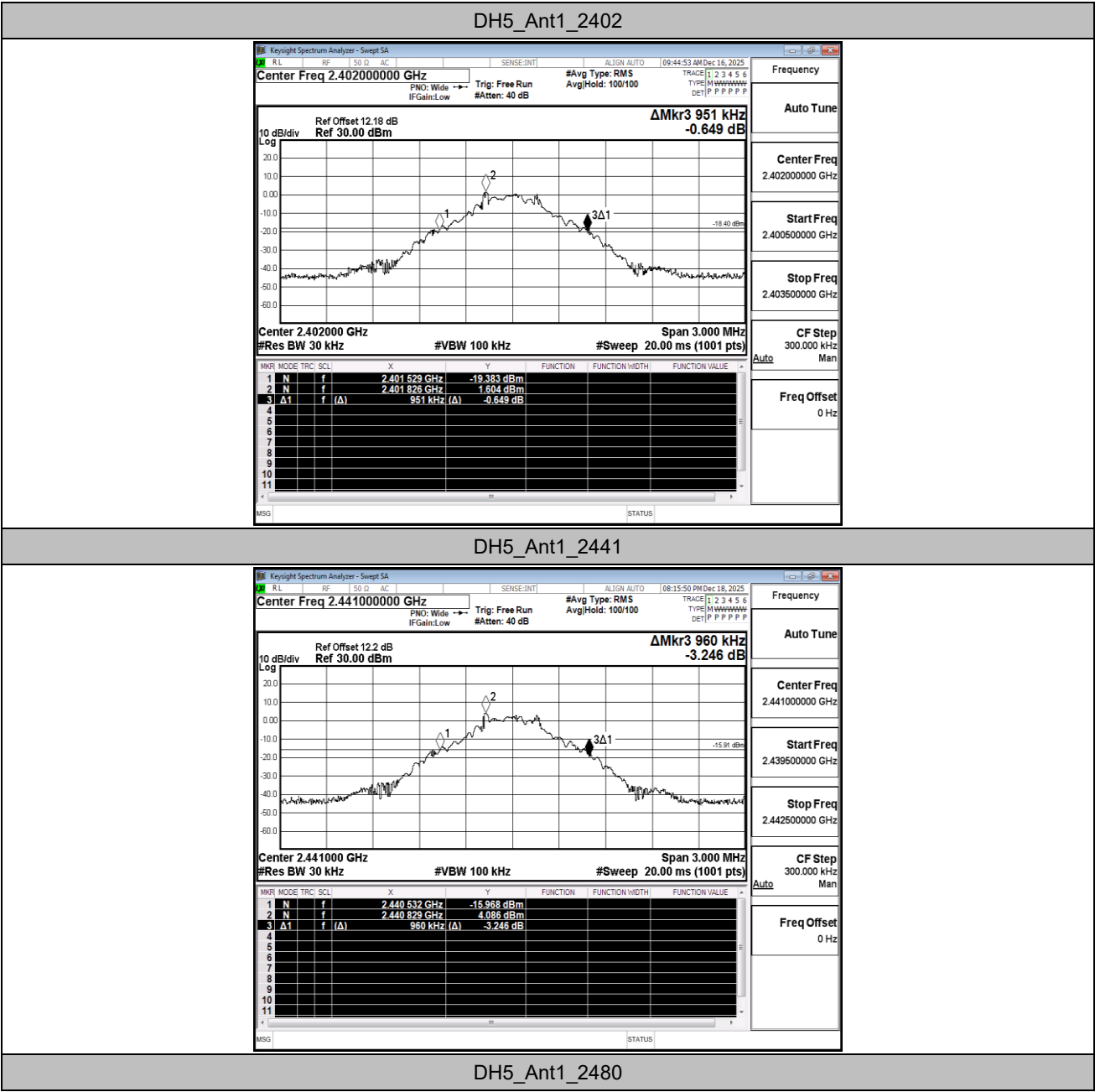
Temperature:	23.2°C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

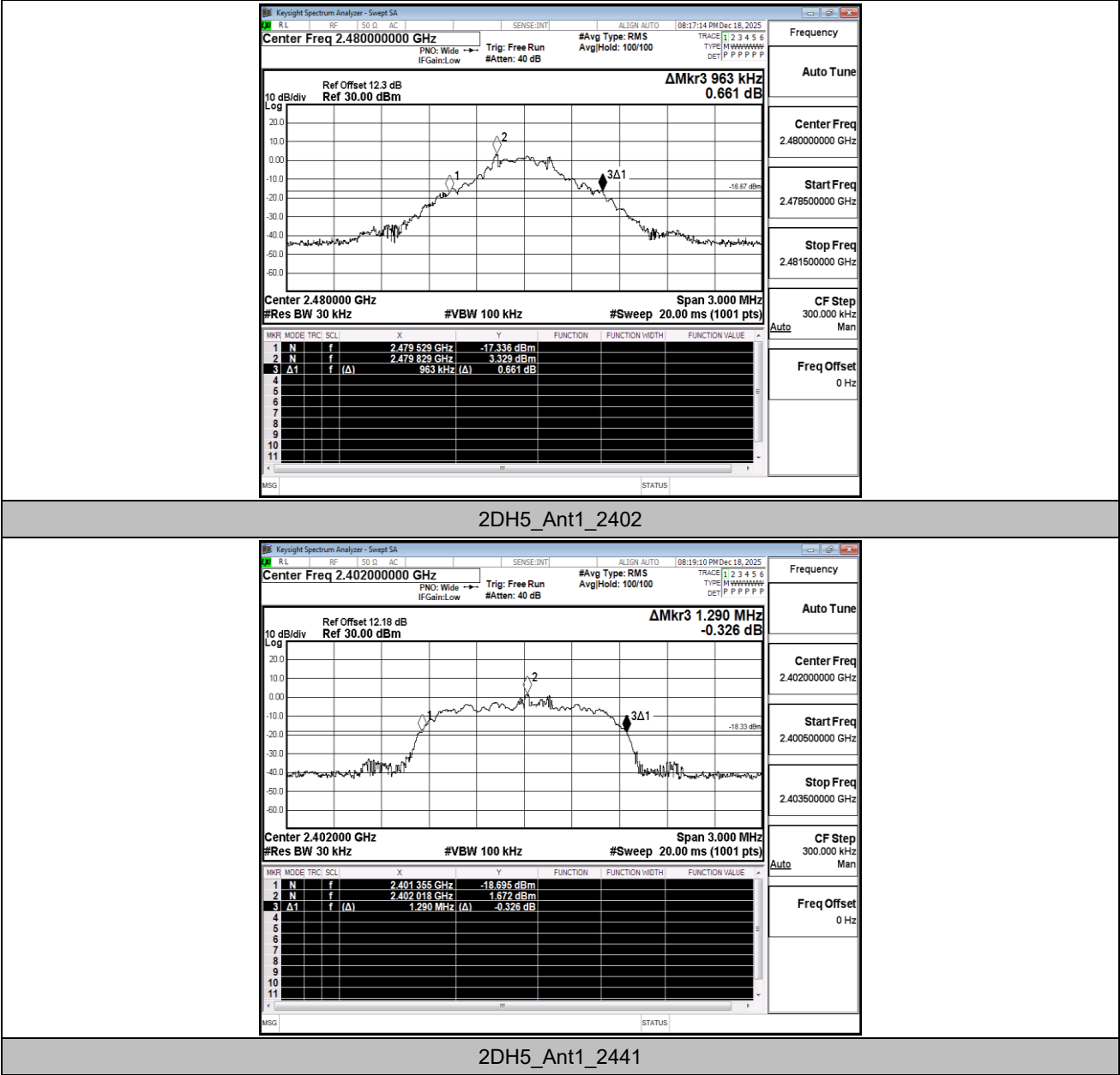
A.1 20dB Emission Bandwidth

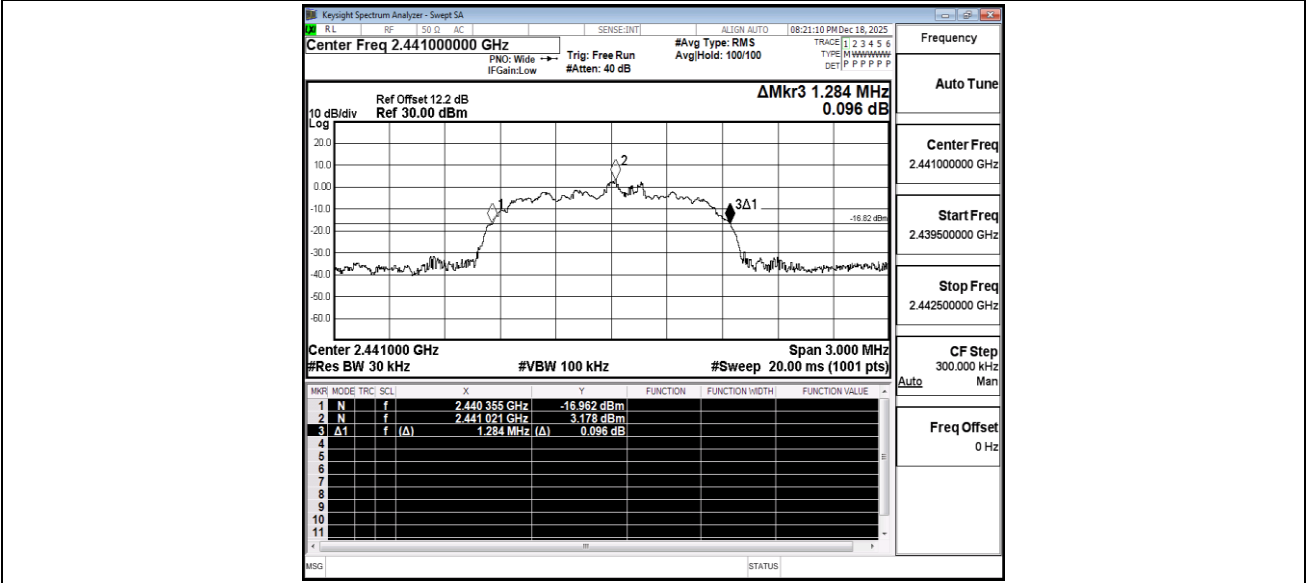
Test Result

TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.529	2402.480	---	---
		2441	0.960	2440.532	2441.492	---	---
		2480	0.963	2479.529	2480.492	---	---
2DH5	Ant1	2402	1.290	2401.355	2402.645	---	---
		2441	1.284	2440.355	2441.639	---	---
		2480	1.293	2479.352	2480.645	---	---
3DH5	Ant1	2402	1.296	2401.343	2402.639	---	---
		2441	1.296	2440.343	2441.639	---	---
		2480	1.299	2479.343	2480.642	---	---

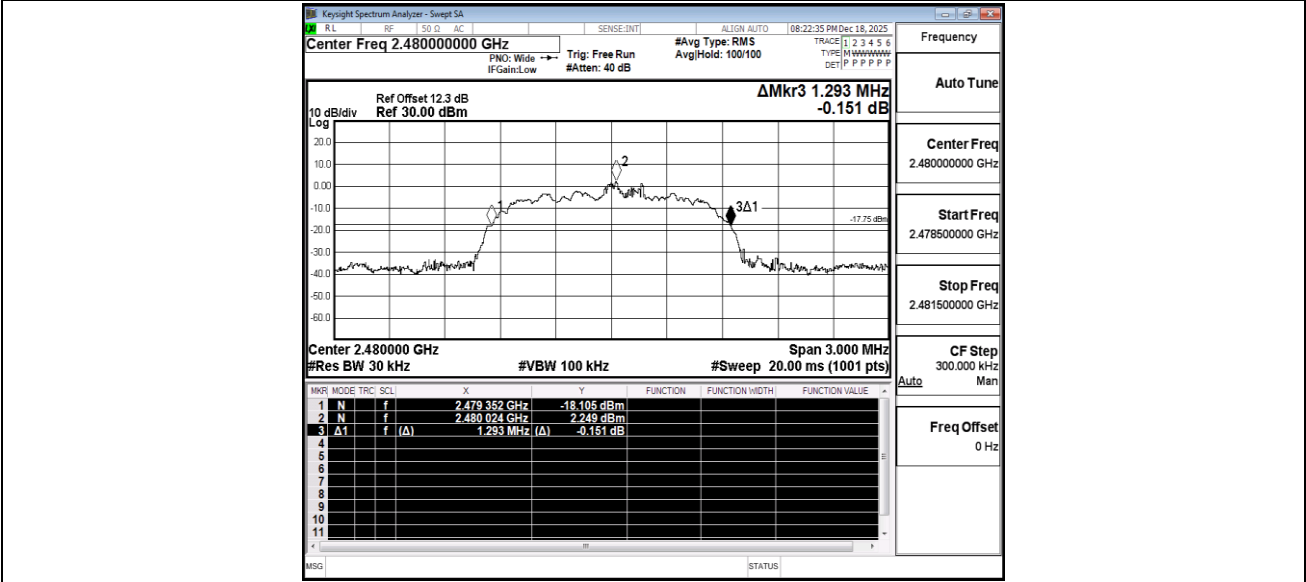
Test Graphs





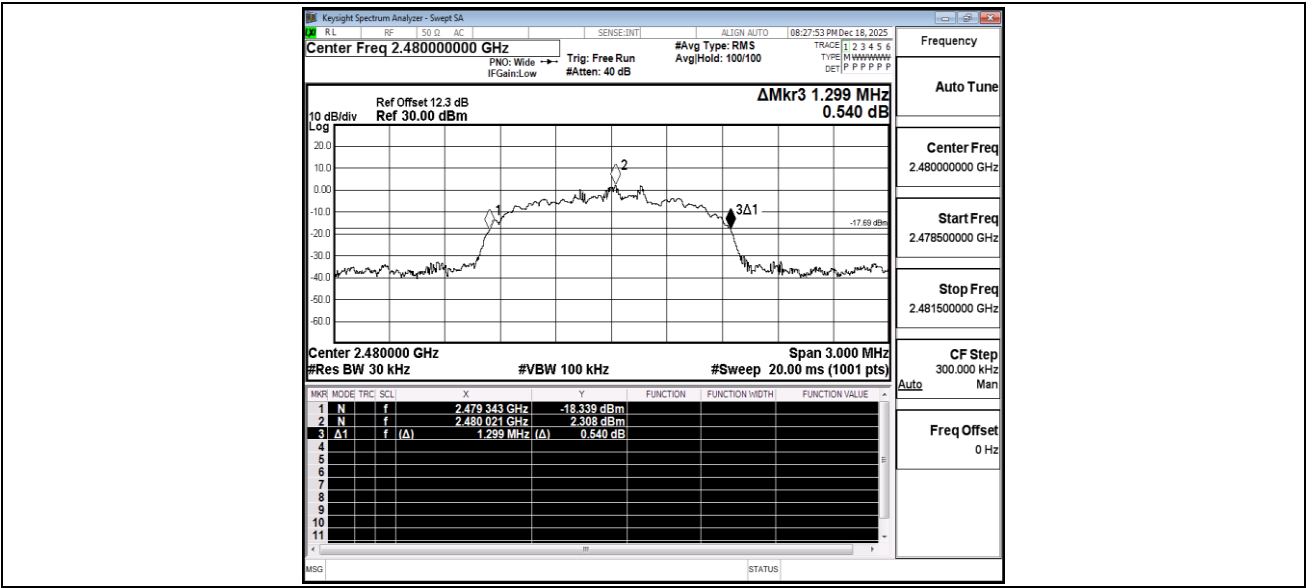


2DH5_Ant1_2480



3DH5_Ant1_2402



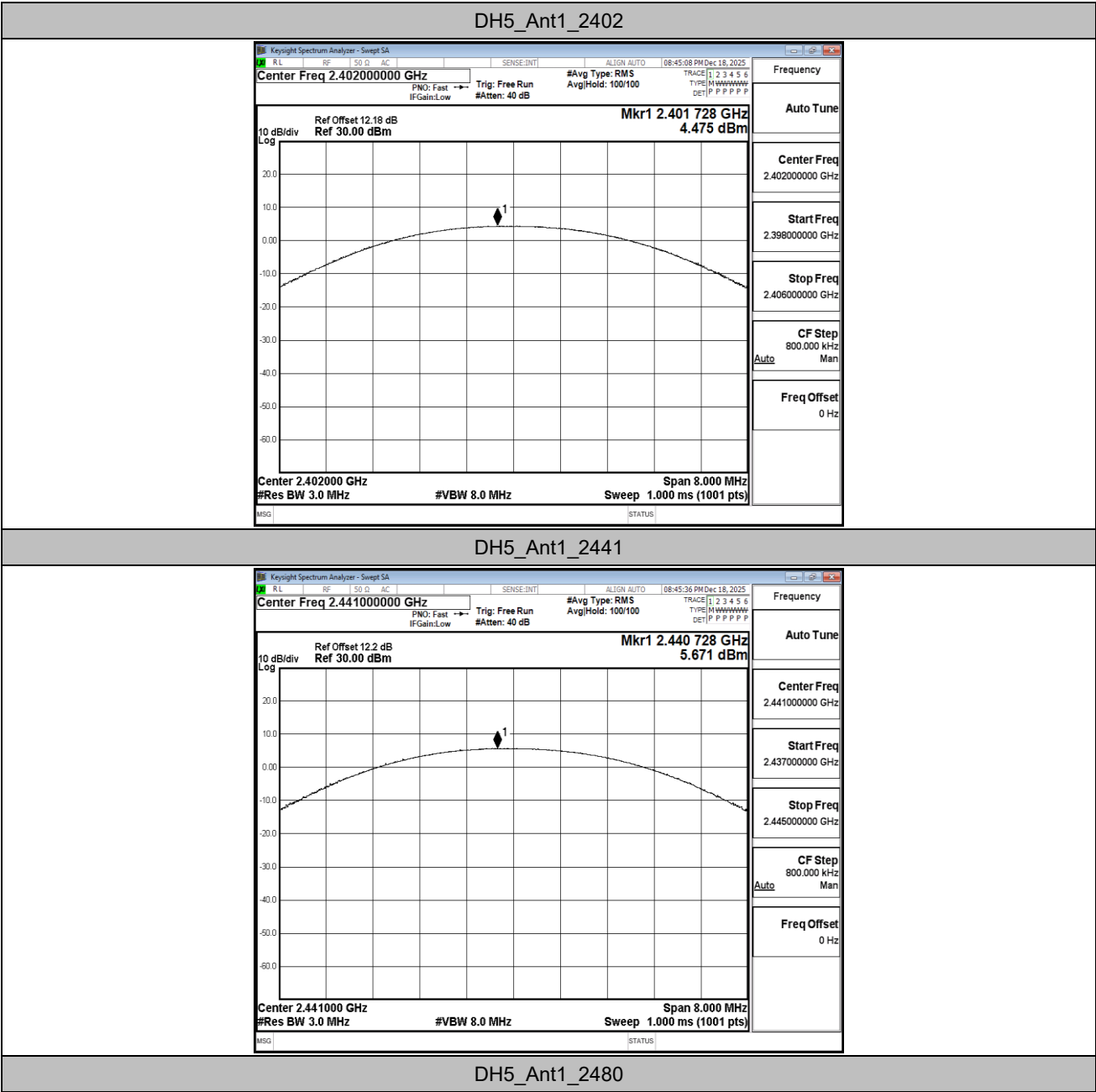


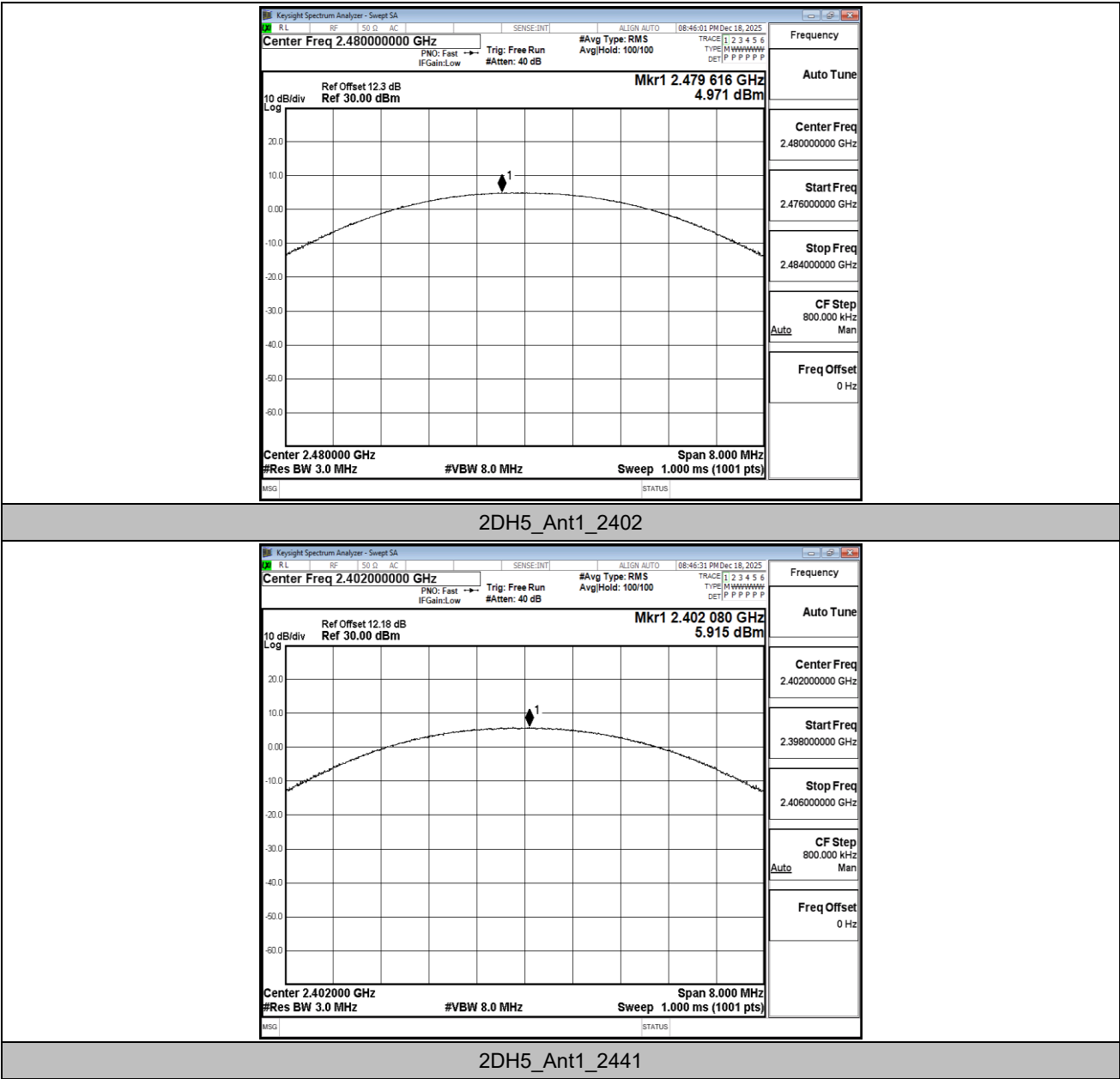
A.2 Maximum Peak conducted output power

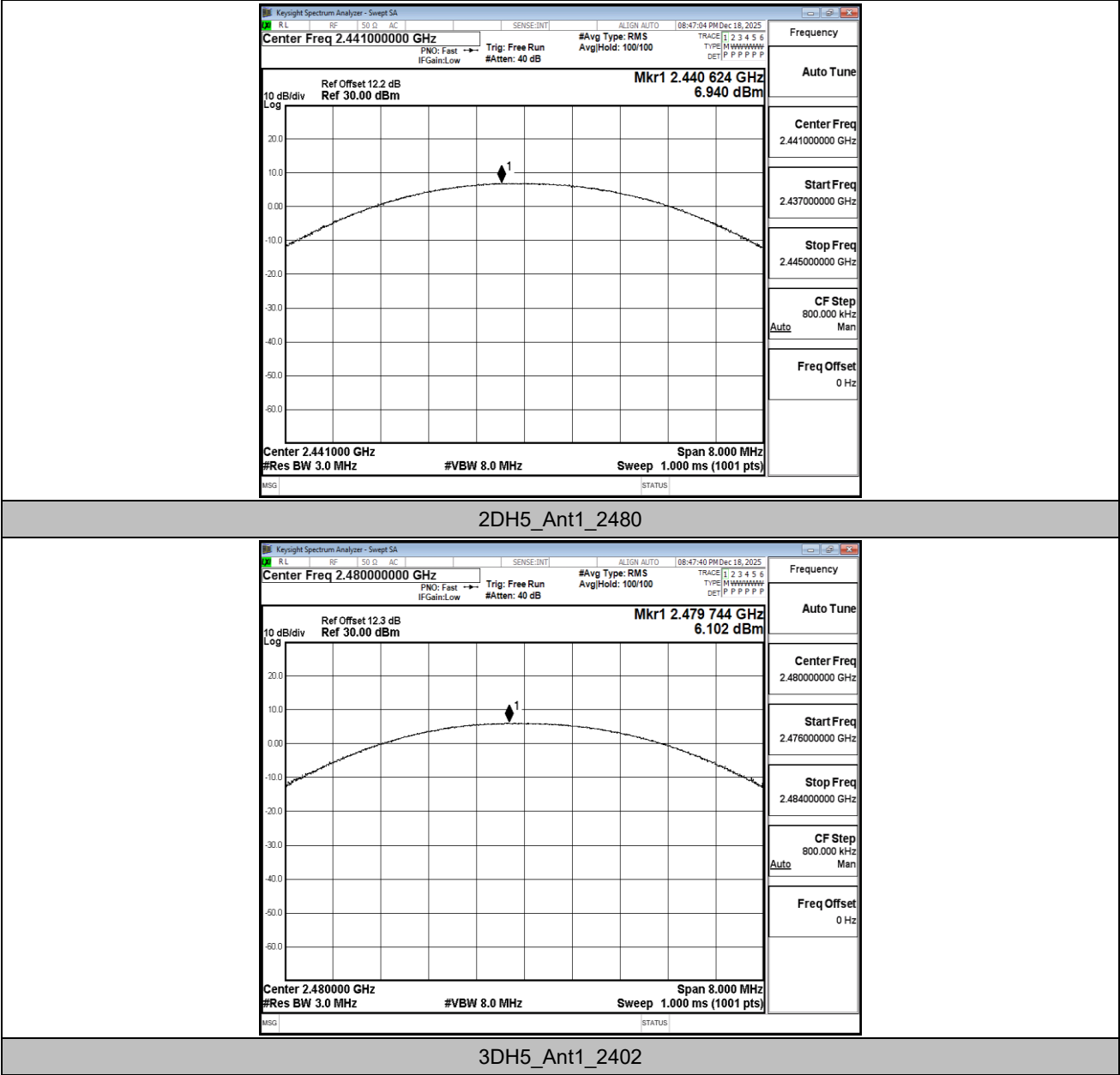
Test Result Peak

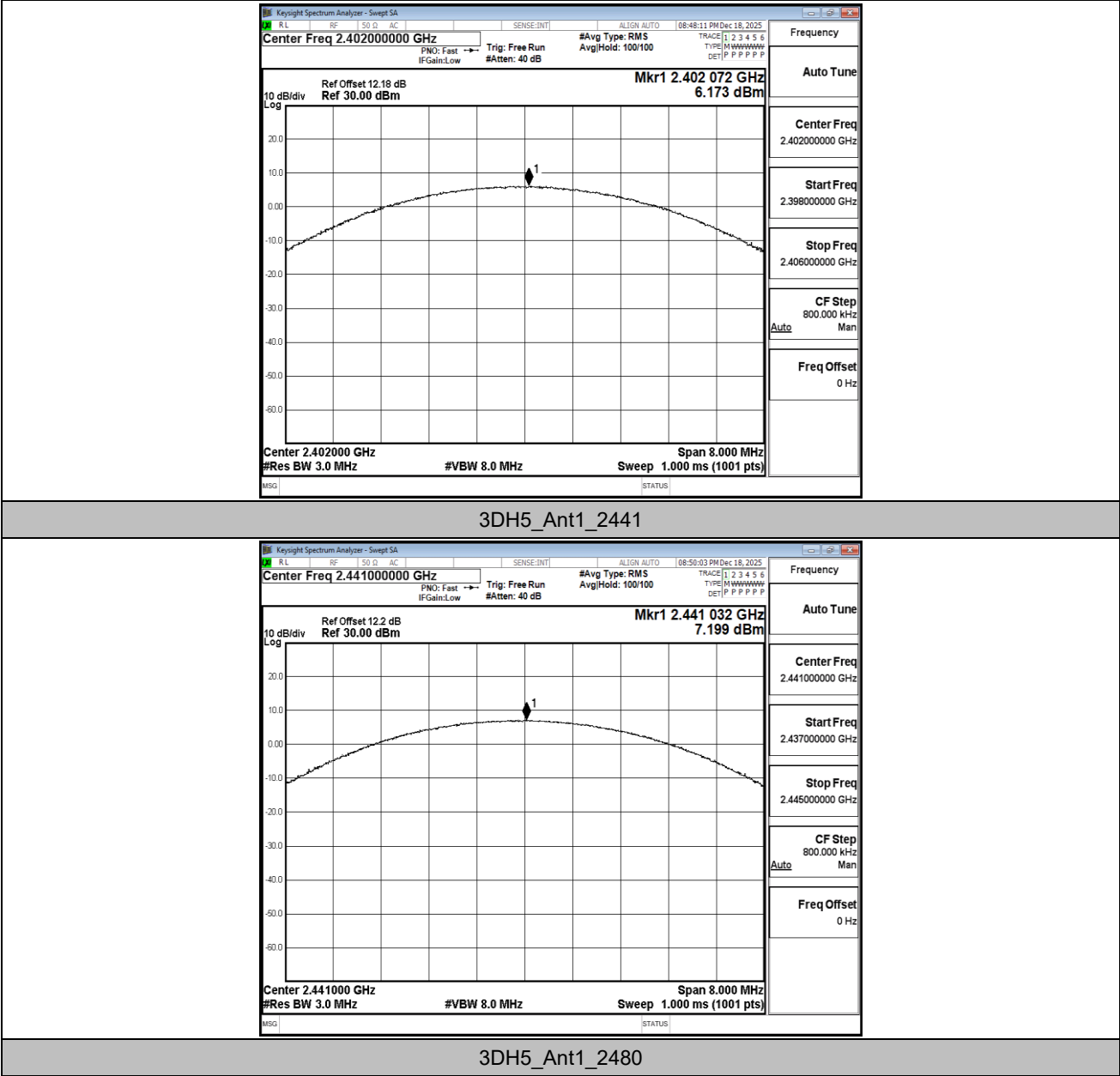
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.48	≤30	PASS
		2441	5.67	≤30	PASS
		2480	4.97	≤30	PASS
2DH5	Ant1	2402	5.92	≤20.97	PASS
		2441	6.94	≤20.97	PASS
		2480	6.10	≤20.97	PASS
3DH5	Ant1	2402	6.17	≤30	PASS
		2441	7.20	≤30	PASS
		2480	6.18	≤30	PASS

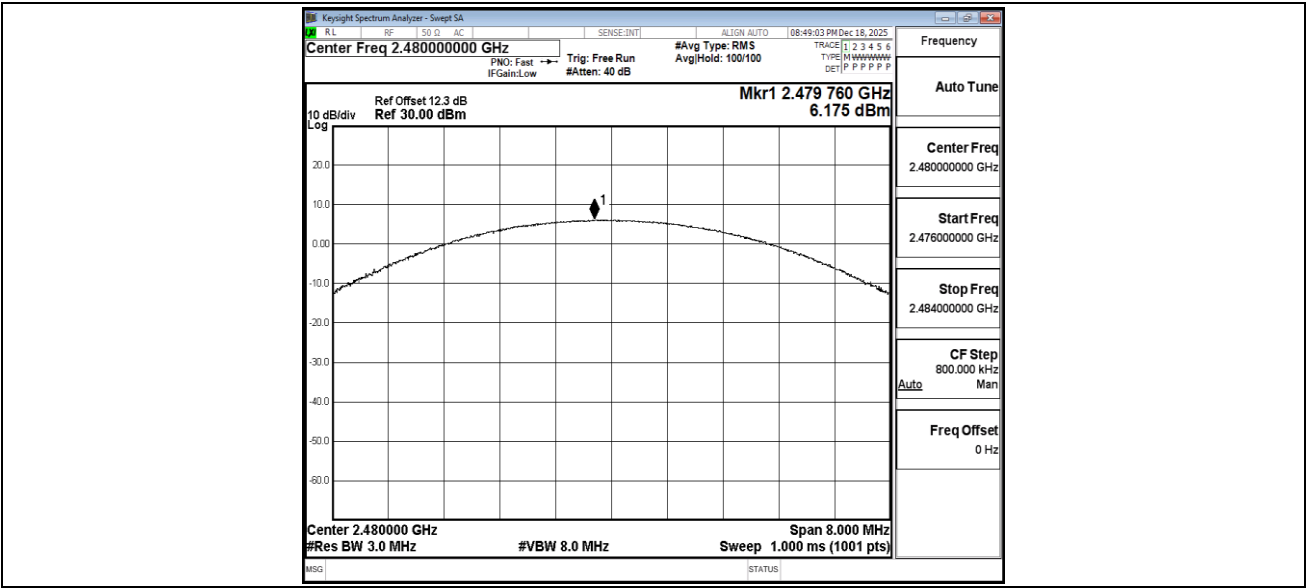
Test Graphs









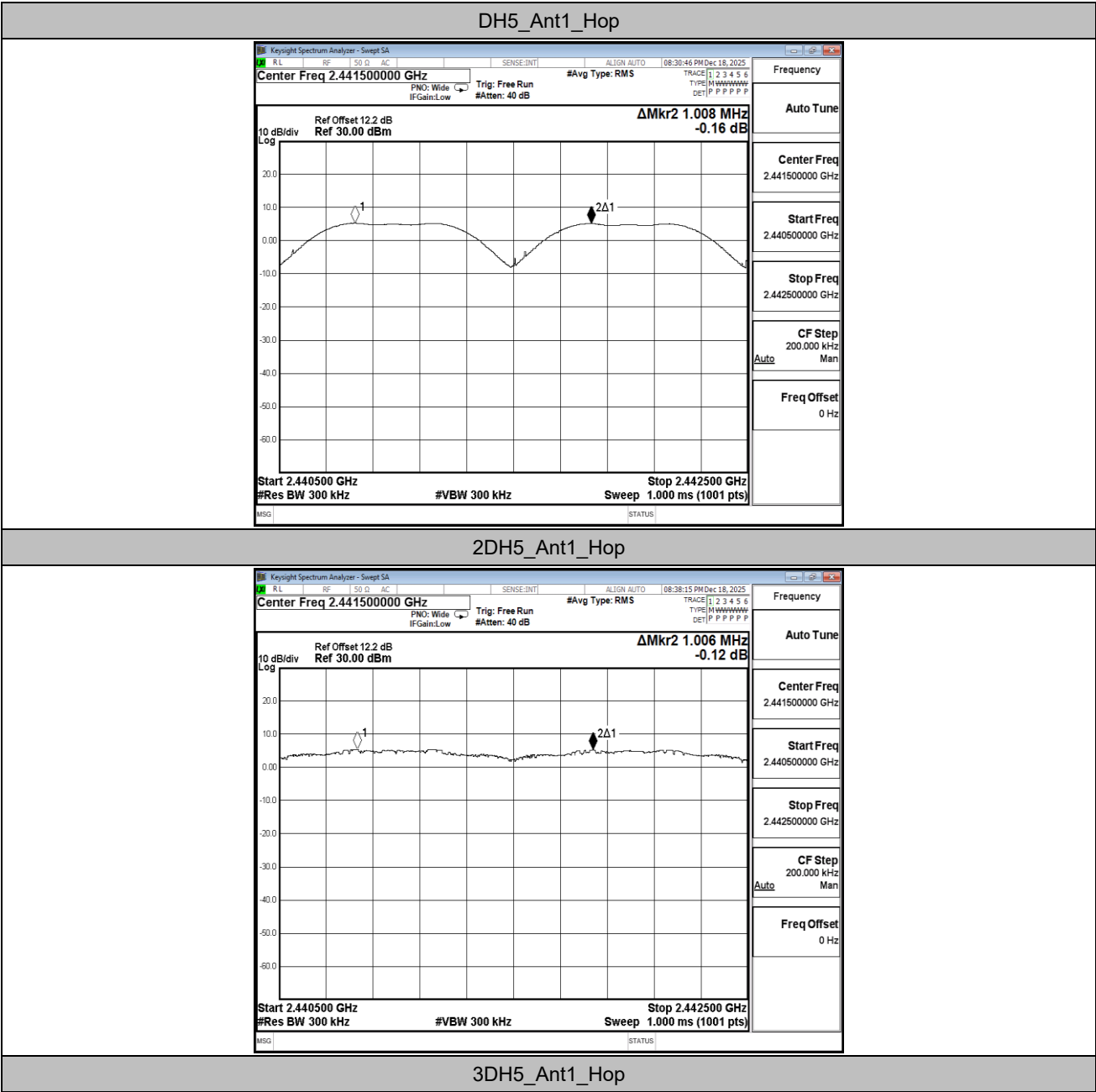


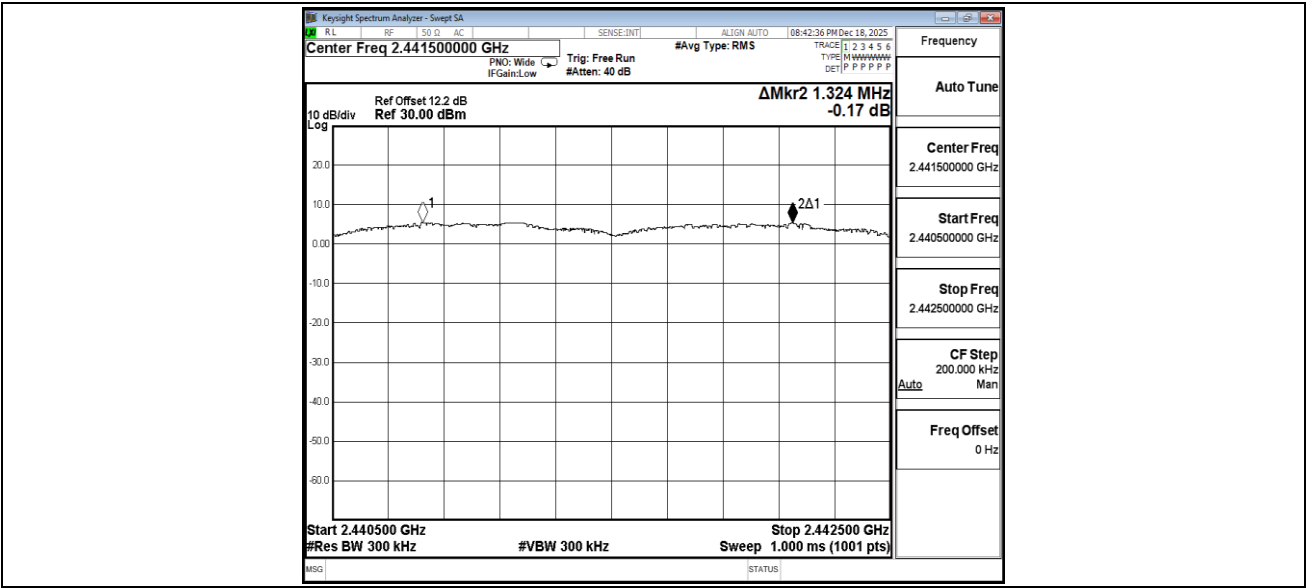
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.642	PASS
2DH5	Ant1	Hop	1.006	≥ 0.862	PASS
3DH5	Ant1	Hop	1.324	≥ 0.866	PASS

Test Graphs



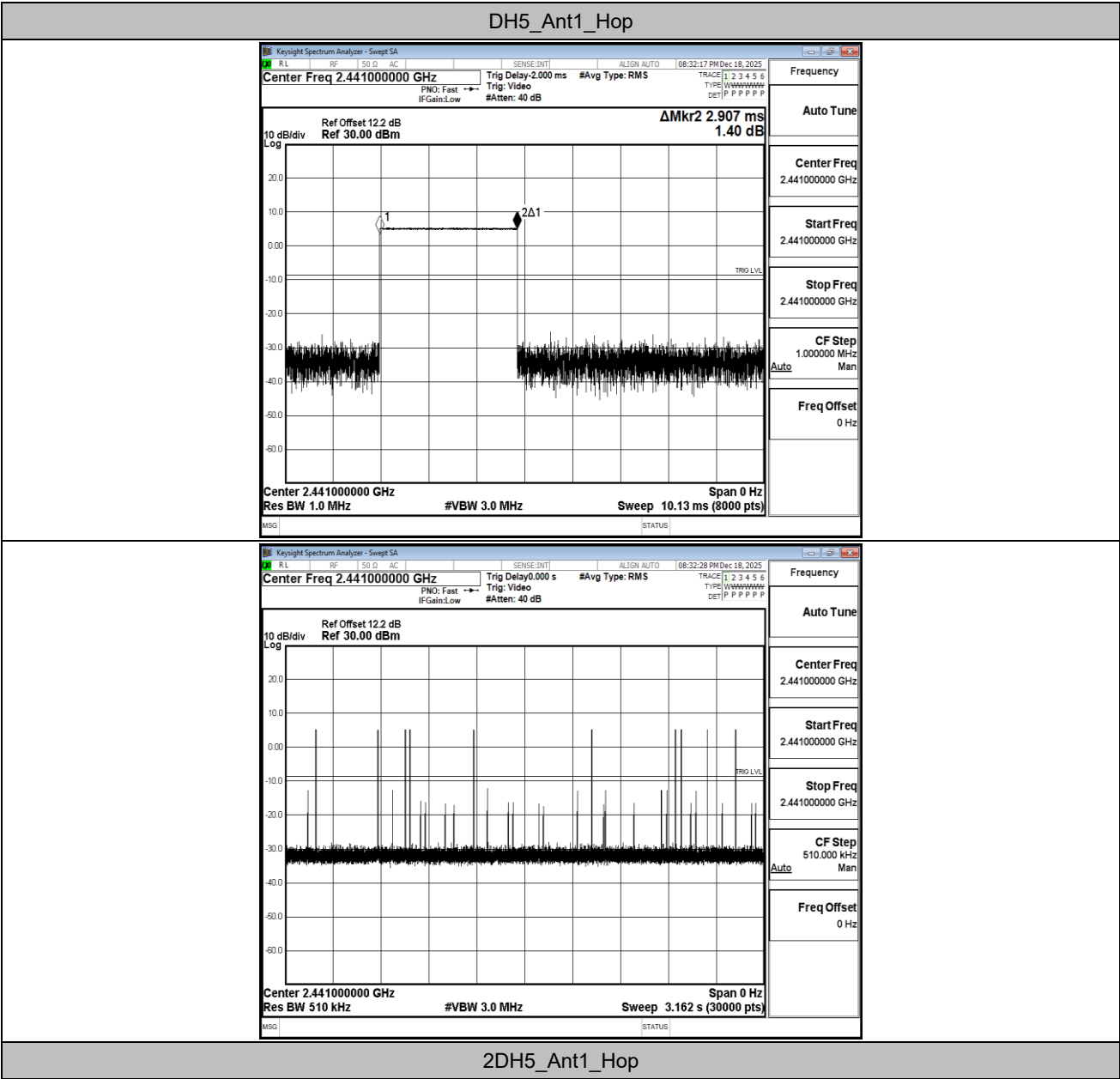


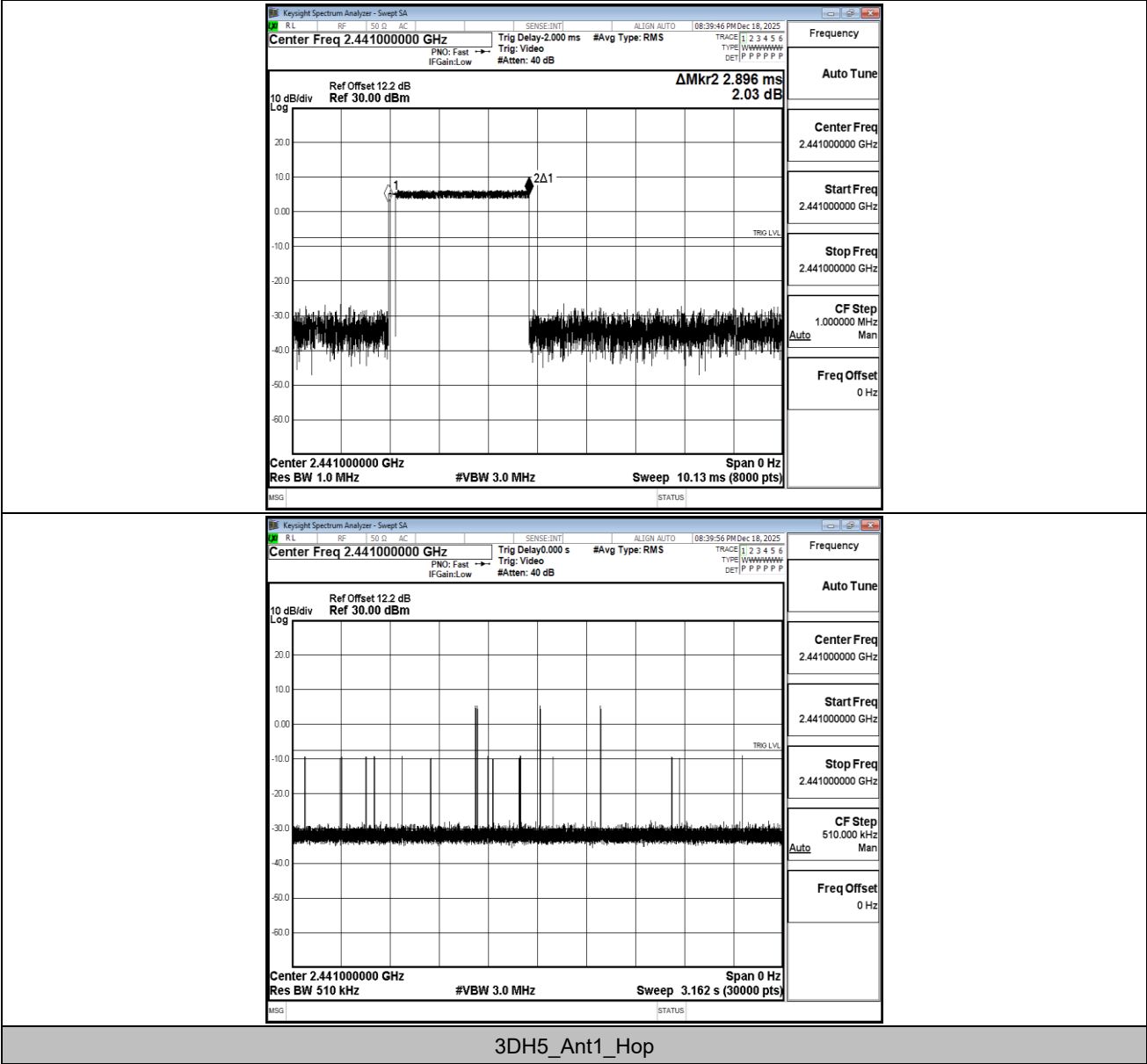
A.4 Time of occupancy

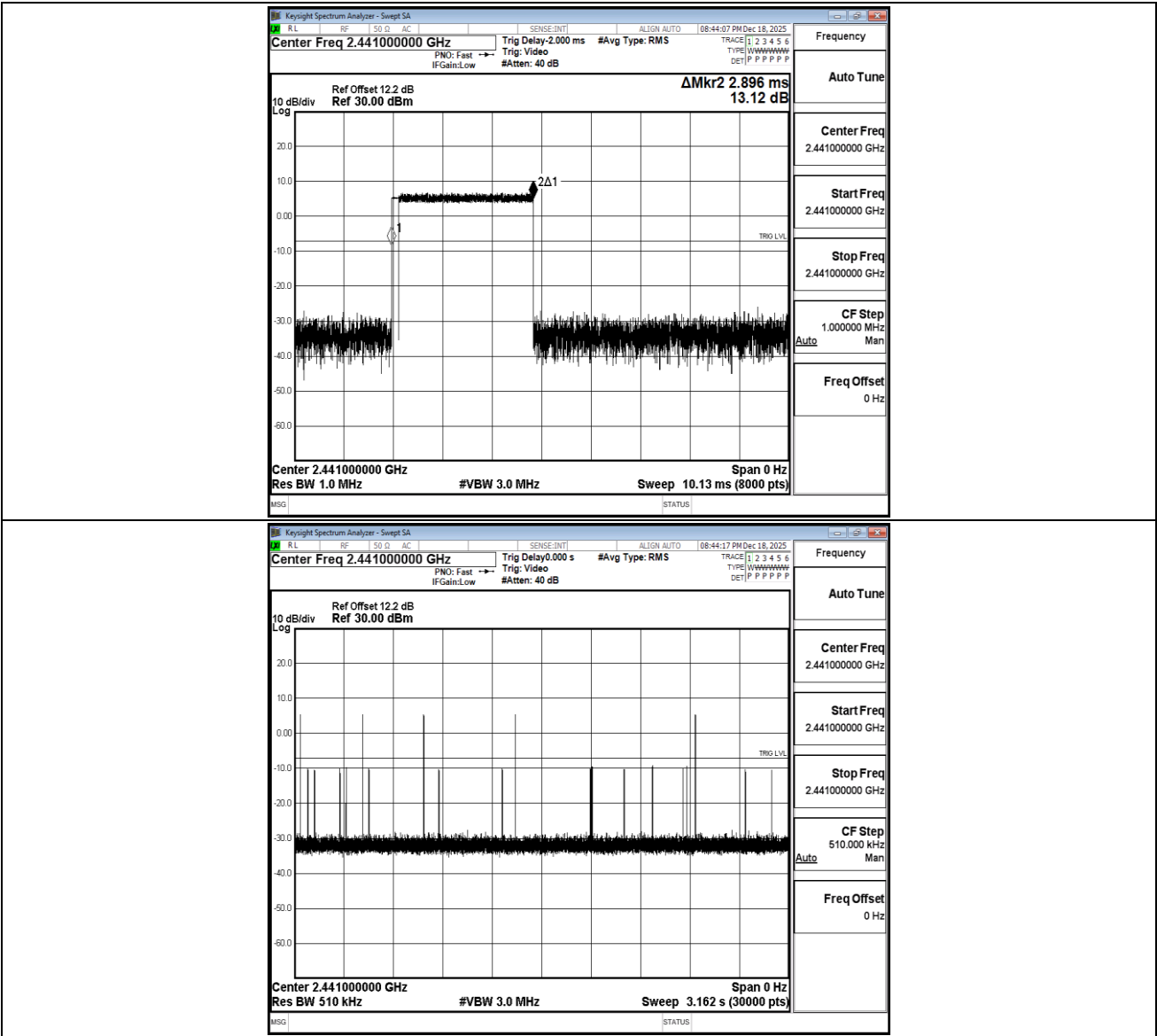
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.896	50	0.145	≤0.4	PASS
3DH5	Ant1	Hop	2.896	60	0.174	≤0.4	PASS

Test Graphs





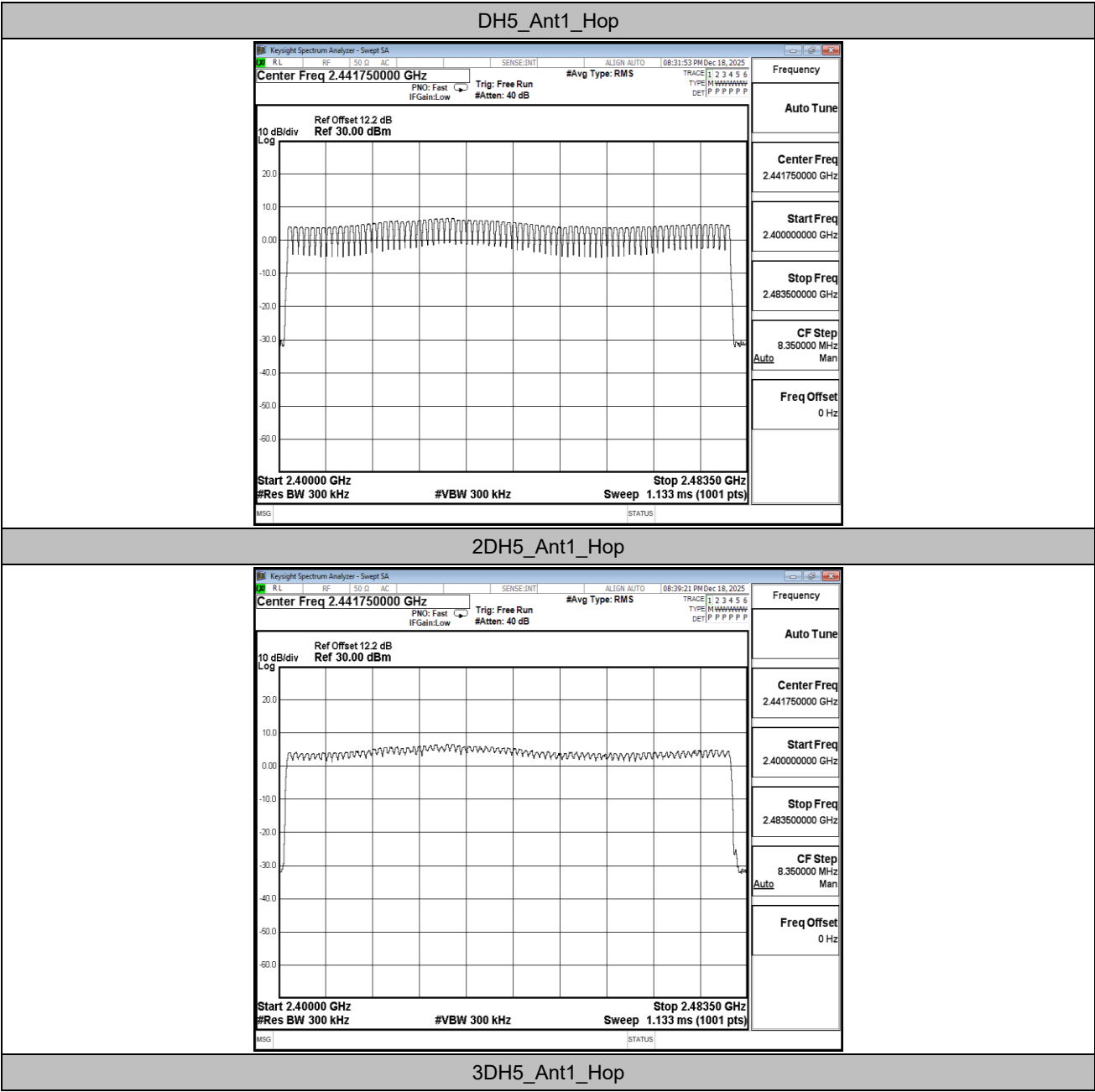


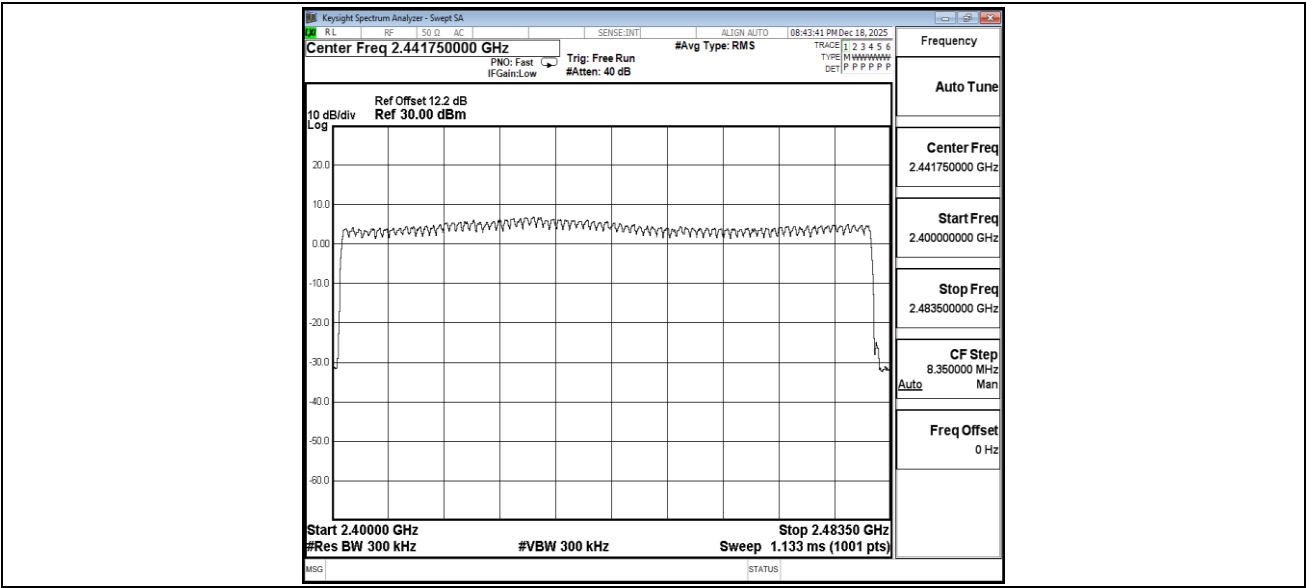
A.5 Number of hopping channels

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

Test Graphs



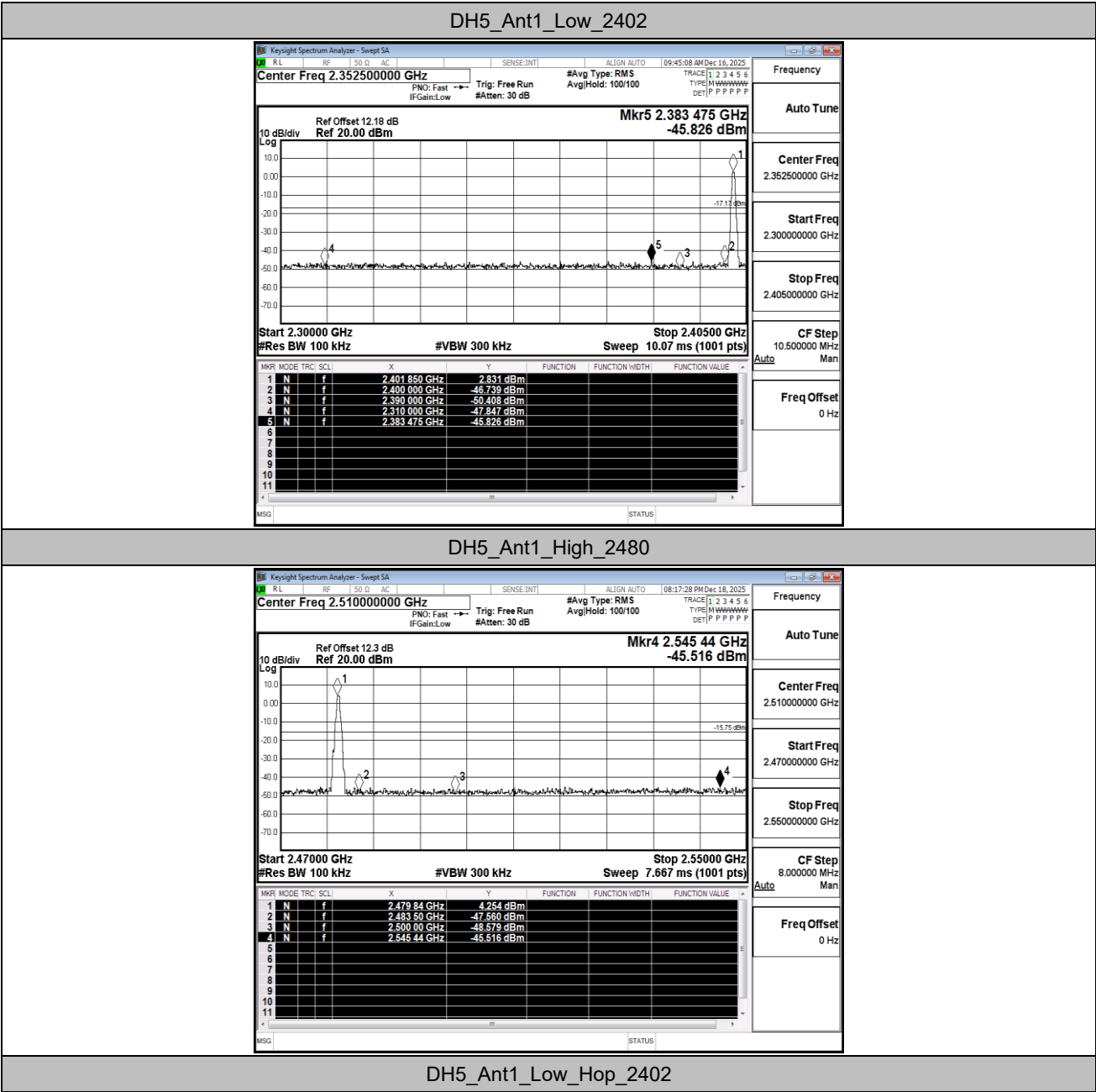


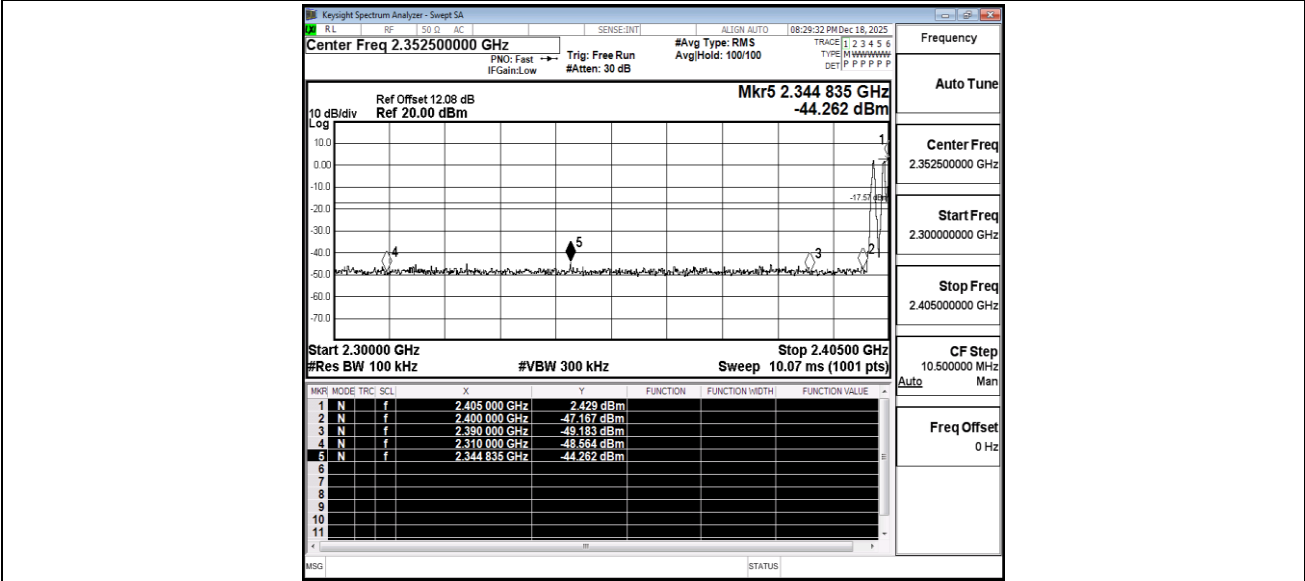
A.6 Band edge measurements

Test Result

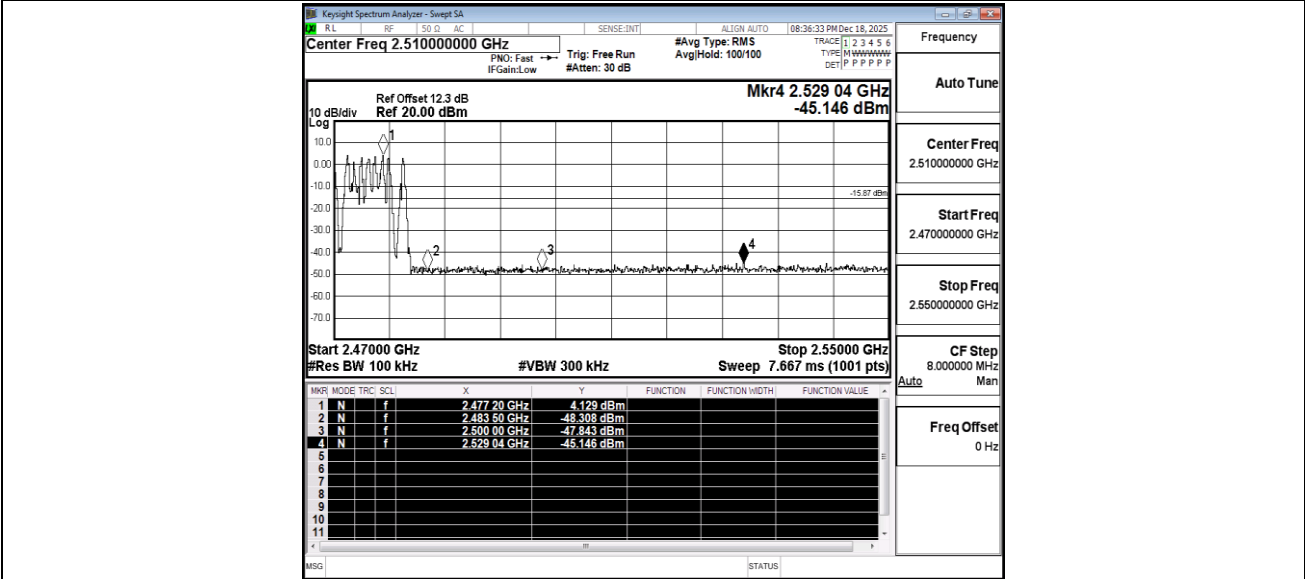
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.83	-45.83	≤-17.17	PASS
		High	2480	4.25	-45.52	≤-15.75	PASS
		Low	Hop_2402	2.43	-44.26	≤-17.57	PASS
		High	Hop_2480	4.13	-45.15	≤-15.87	PASS
2DH5	Ant1	Low	2402	3.42	-44.7	≤-16.58	PASS
		High	2480	4.52	-44.74	≤-15.48	PASS
		Low	Hop_2402	-0.47	-45.44	≤-20.47	PASS
		High	Hop_2480	1.99	-44.41	≤-18.01	PASS
3DH5	Ant1	Low	2402	4.00	-44.33	≤-16.01	PASS
		High	2480	4.52	-44.86	≤-15.48	PASS
		Low	Hop_2402	3.71	-44.87	≤-16.29	PASS
		High	Hop_2480	1.17	-44.6	≤-18.83	PASS

Test Graphs

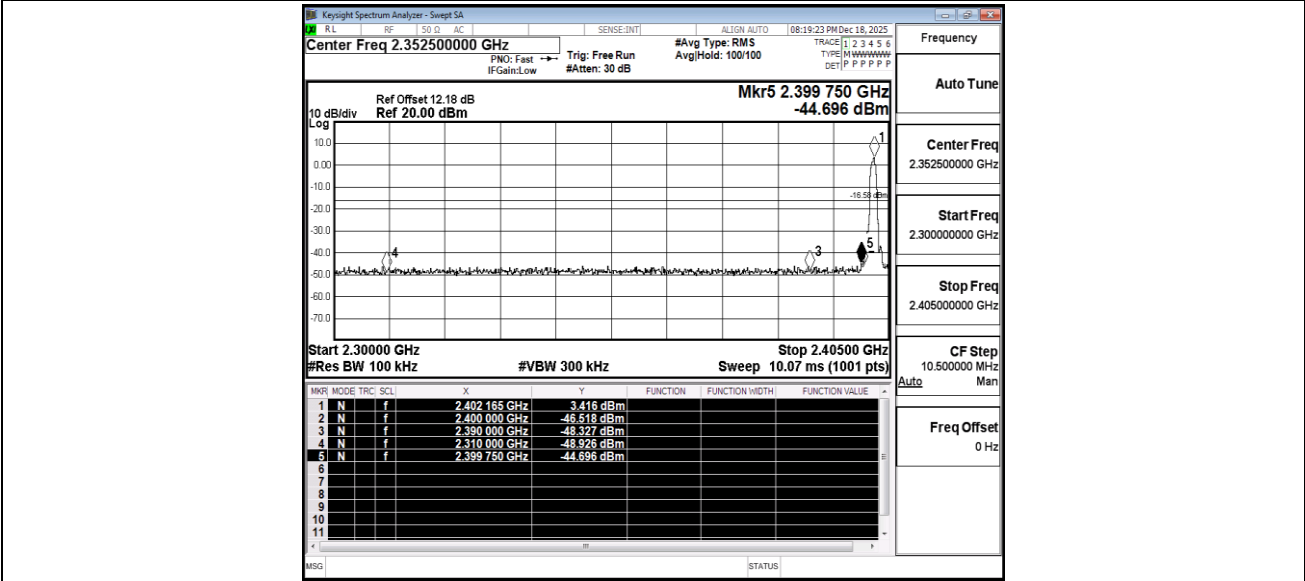




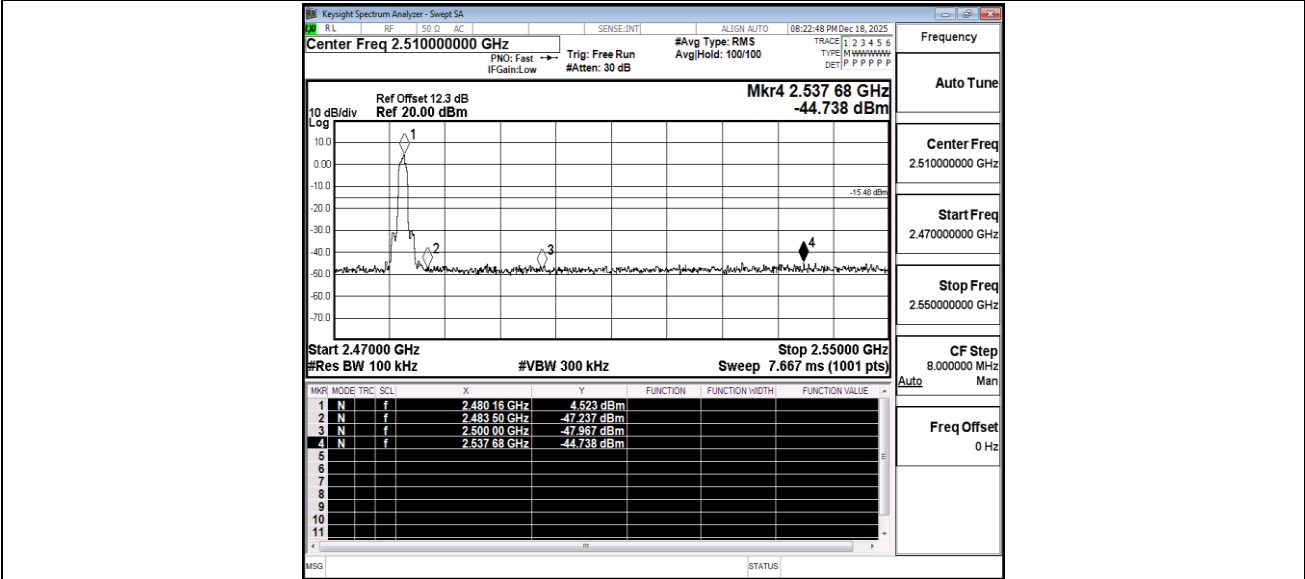
DH5_Ant1_High_Hop_2480



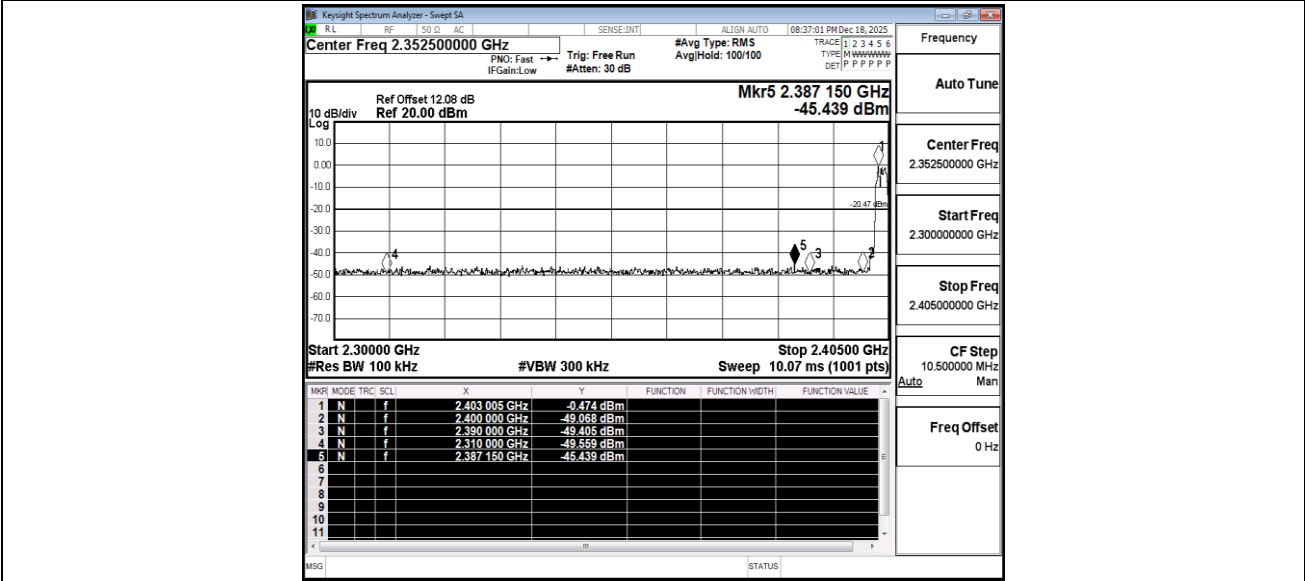
2DH5_Ant1_Low_2402



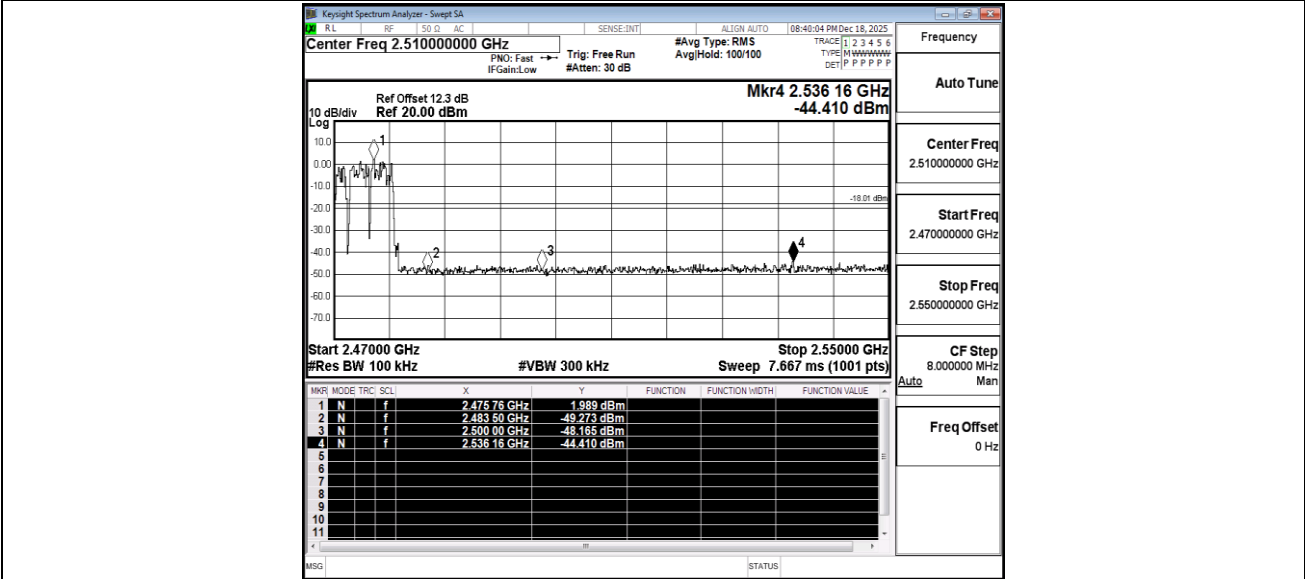
2DH5_Ant1_High_2480



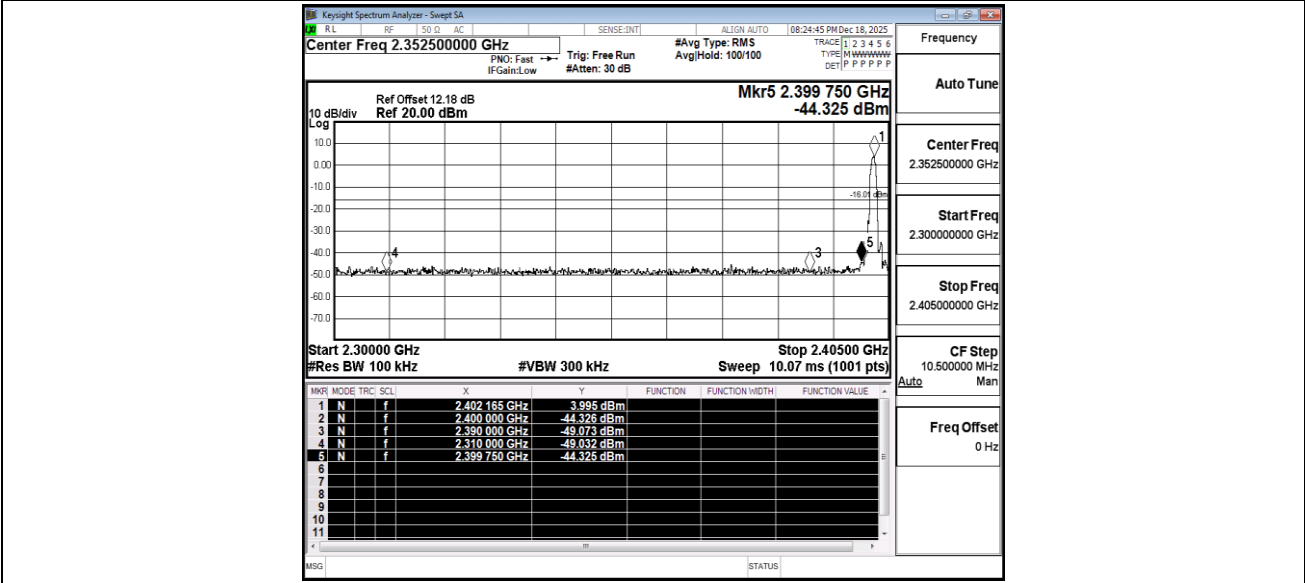
2DH5_Ant1_Low_Hop_2402



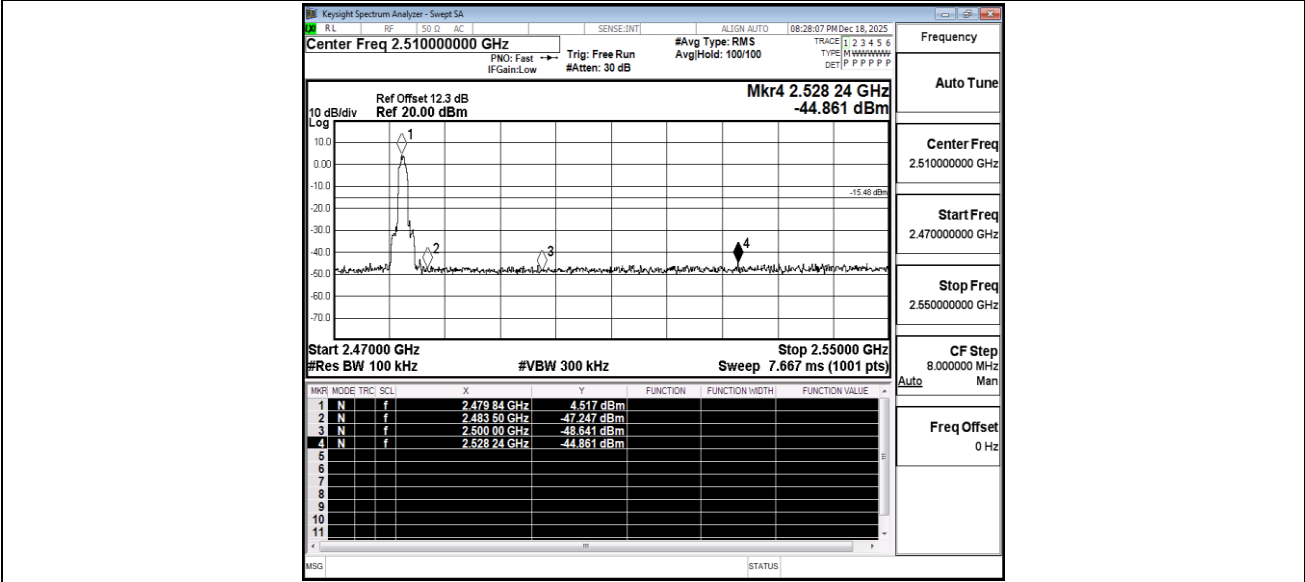
2DH5_Ant1_High_Hop_2480



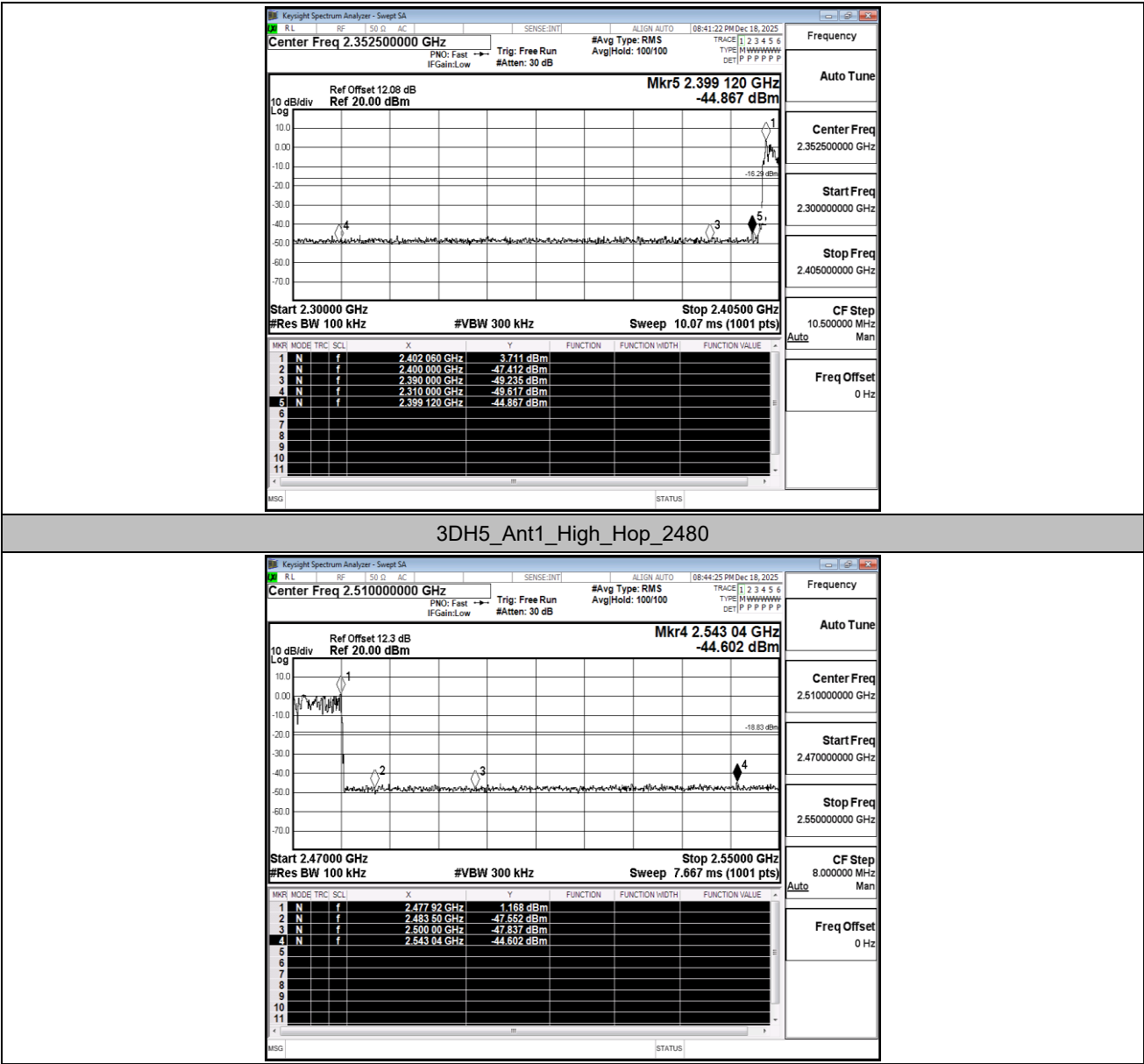
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

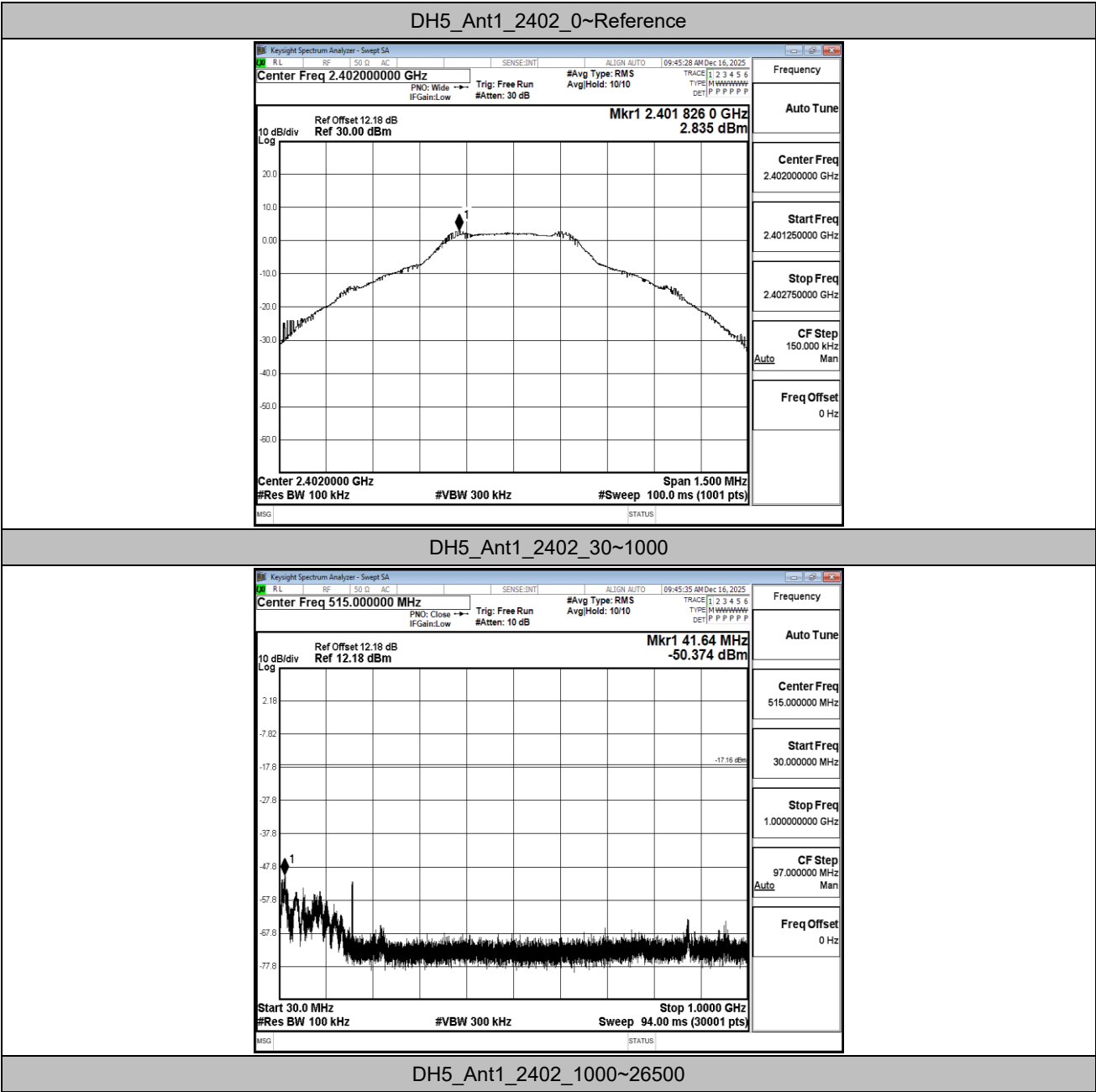


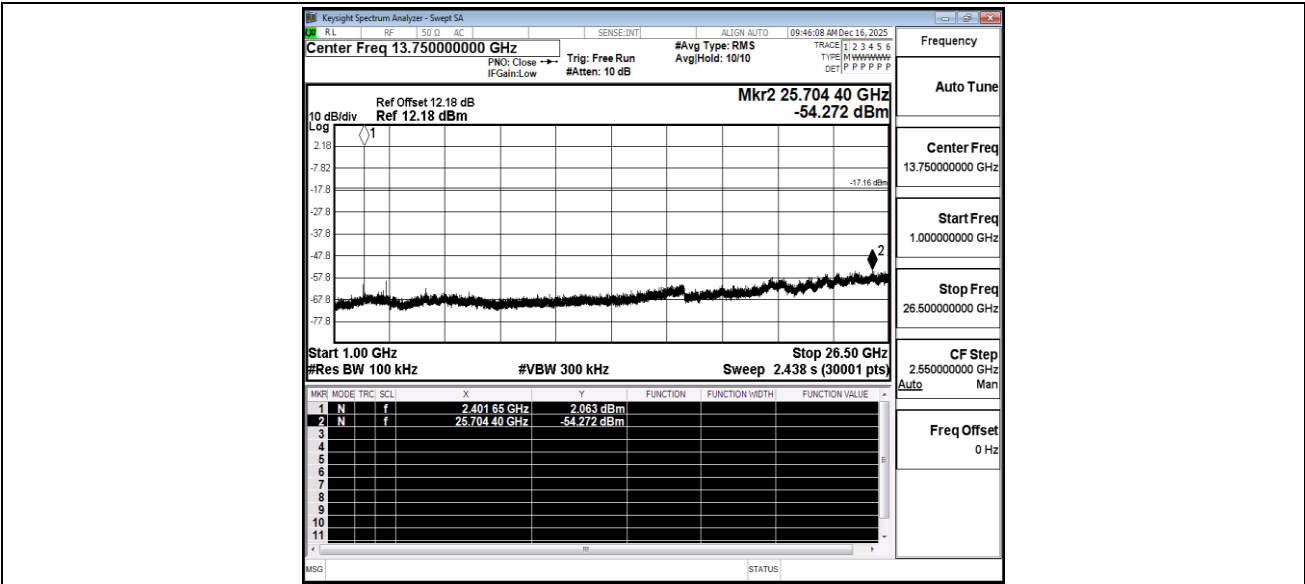
A.7 Conducted Spurious Emission

Test Result

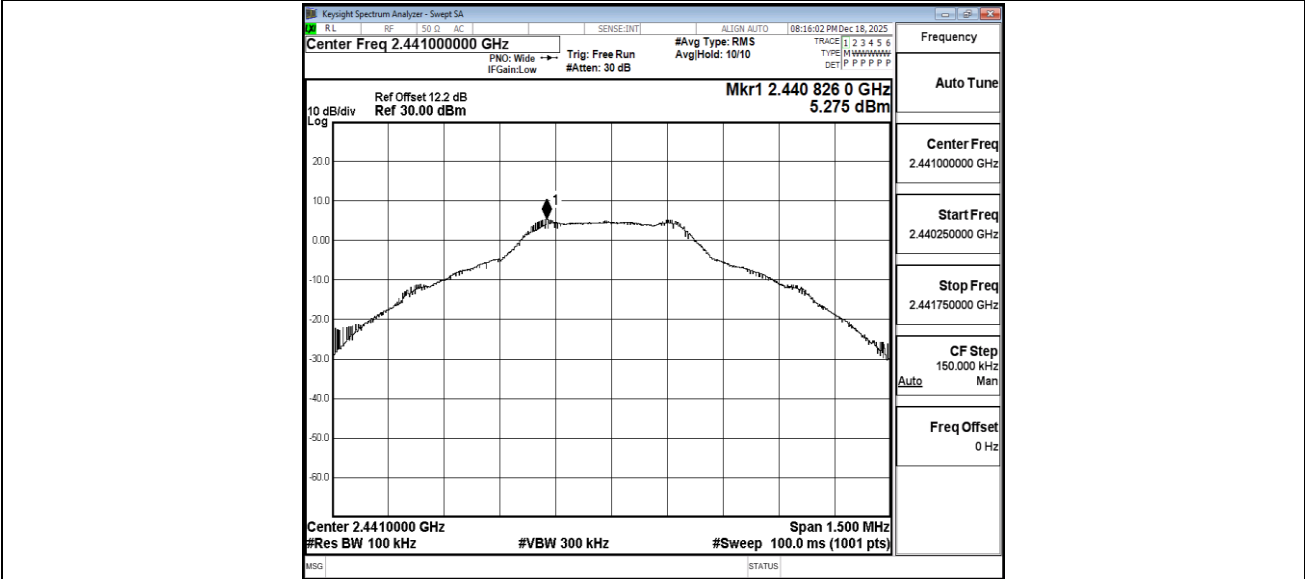
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-50.37	≤ -17.16	PASS
			1000~26500	2.84	-54.27	≤ -17.16	PASS
		2441	Reference	5.28	5.28	---	PASS
			30~1000	5.28	-52.67	≤ -14.72	PASS
			1000~26500	5.28	-30.05	≤ -14.72	PASS
		2480	Reference	4.53	4.53	---	PASS
			30~1000	4.53	-51.58	≤ -15.47	PASS
			1000~26500	4.53	-28.27	≤ -15.47	PASS
2DH5	Ant1	2402	Reference	3.75	3.75	---	PASS
			30~1000	3.75	-52.82	≤ -16.25	PASS
			1000~26500	3.75	-38.71	≤ -16.25	PASS
		2441	Reference	5.14	5.14	---	PASS
			30~1000	5.14	-50.24	≤ -14.86	PASS
			1000~26500	5.14	-54.31	≤ -14.86	PASS
		2480	Reference	4.36	4.36	---	PASS
			30~1000	4.36	-51.68	≤ -15.64	PASS
			1000~26500	4.36	-38.58	≤ -15.64	PASS
3DH5	Ant1	2402	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-52.29	≤ -16.12	PASS
			1000~26500	3.88	-41.94	≤ -16.12	PASS
		2441	Reference	5.20	5.20	---	PASS
			30~1000	5.20	-51.63	≤ -14.8	PASS
			1000~26500	5.20	-38.98	≤ -14.8	PASS
		2480	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-50.22	≤ -15.56	PASS
			1000~26500	4.44	-49.7	≤ -15.56	PASS

Test Graphs

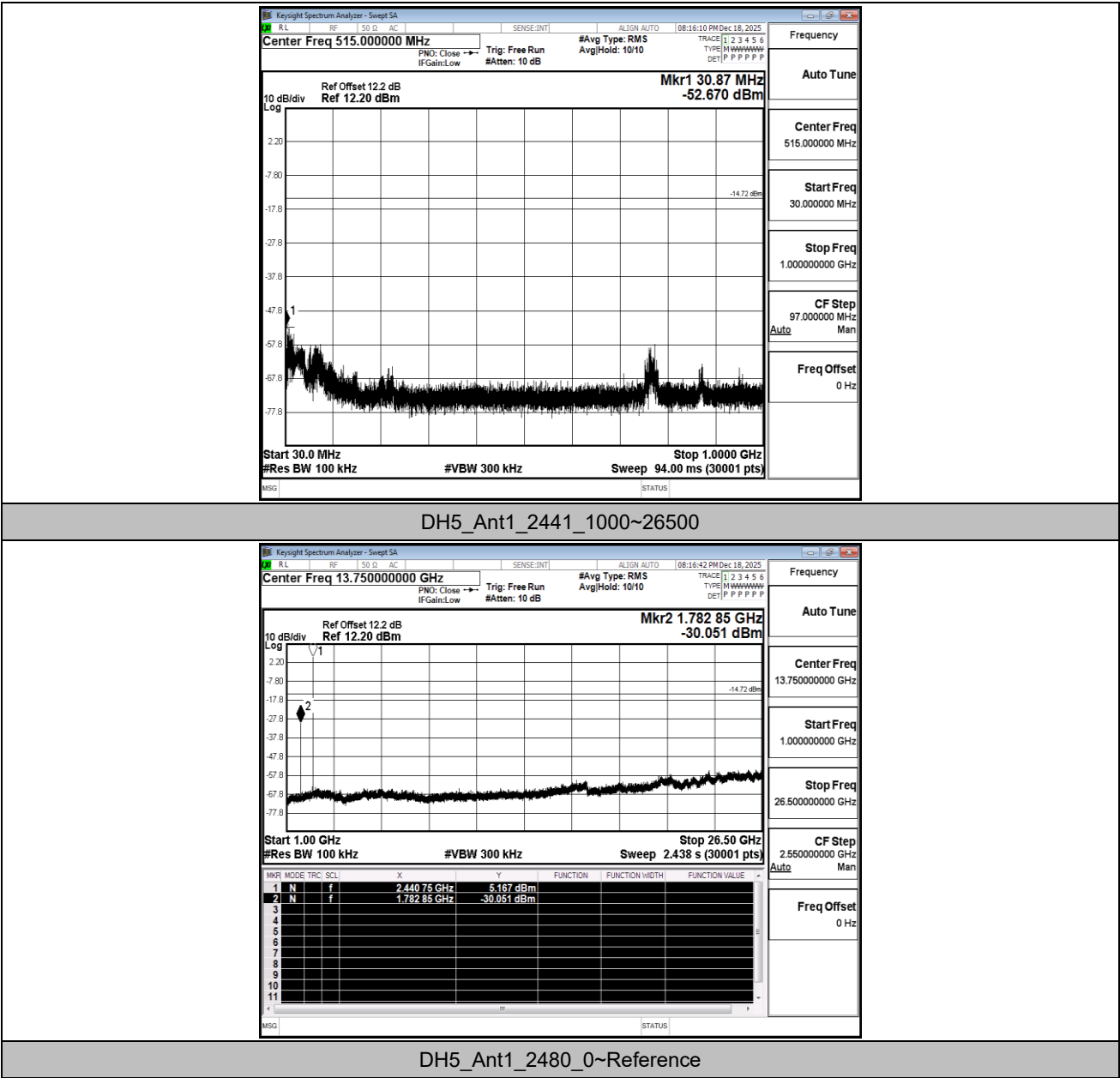


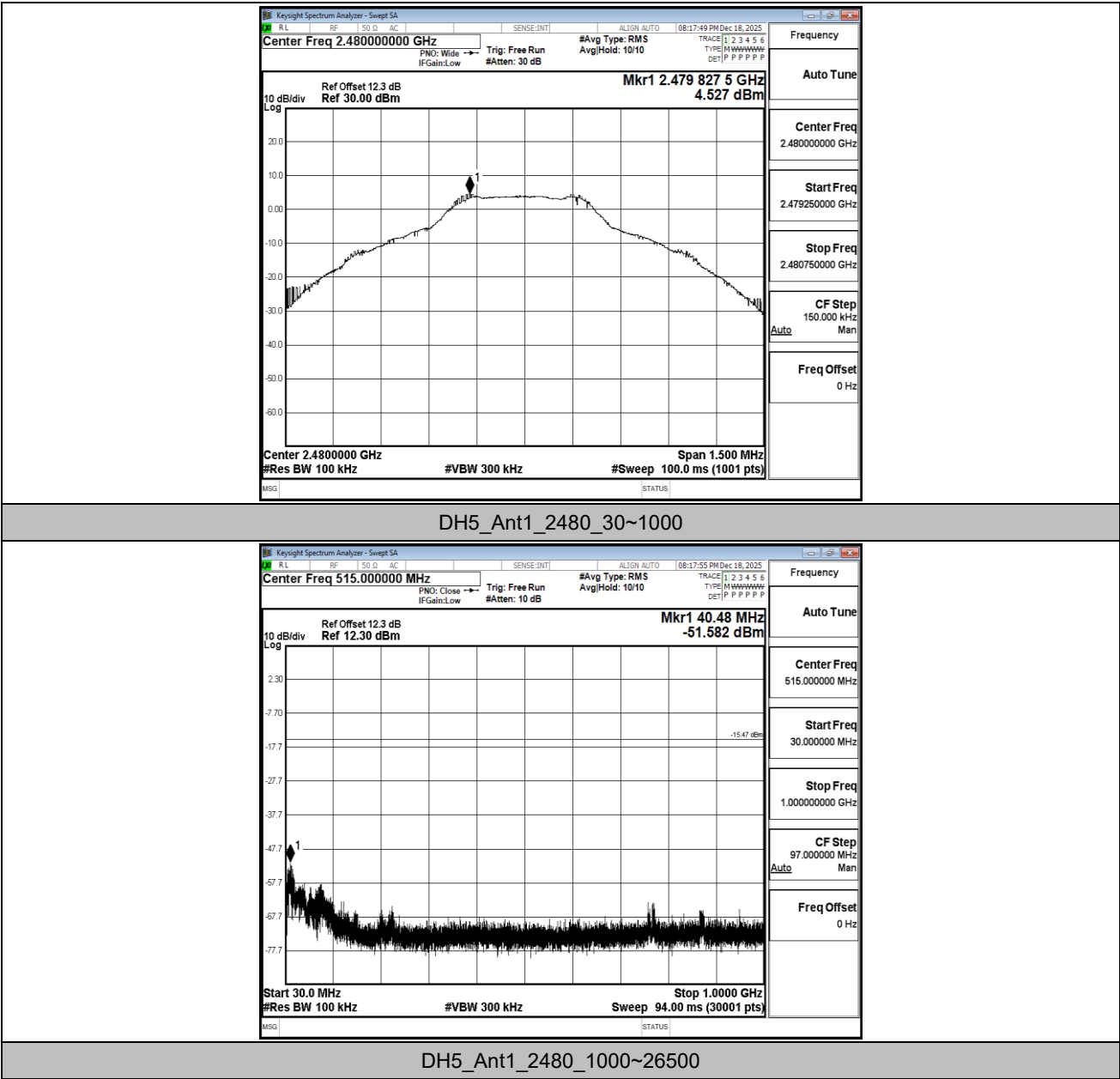


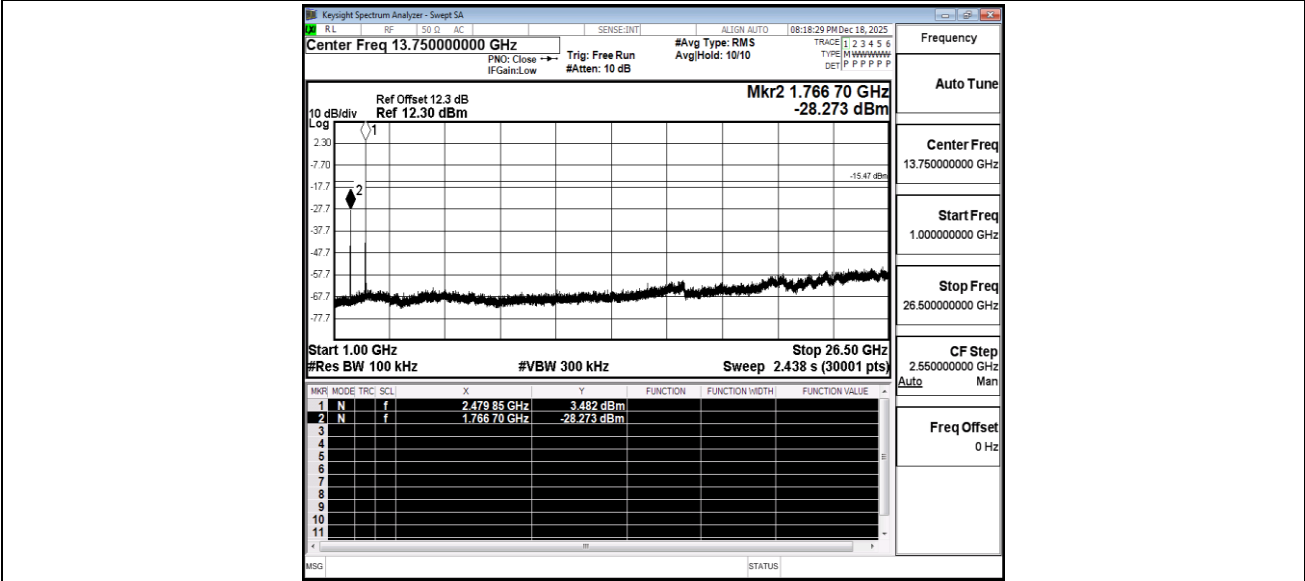
DH5_Ant1_2441_0~Reference



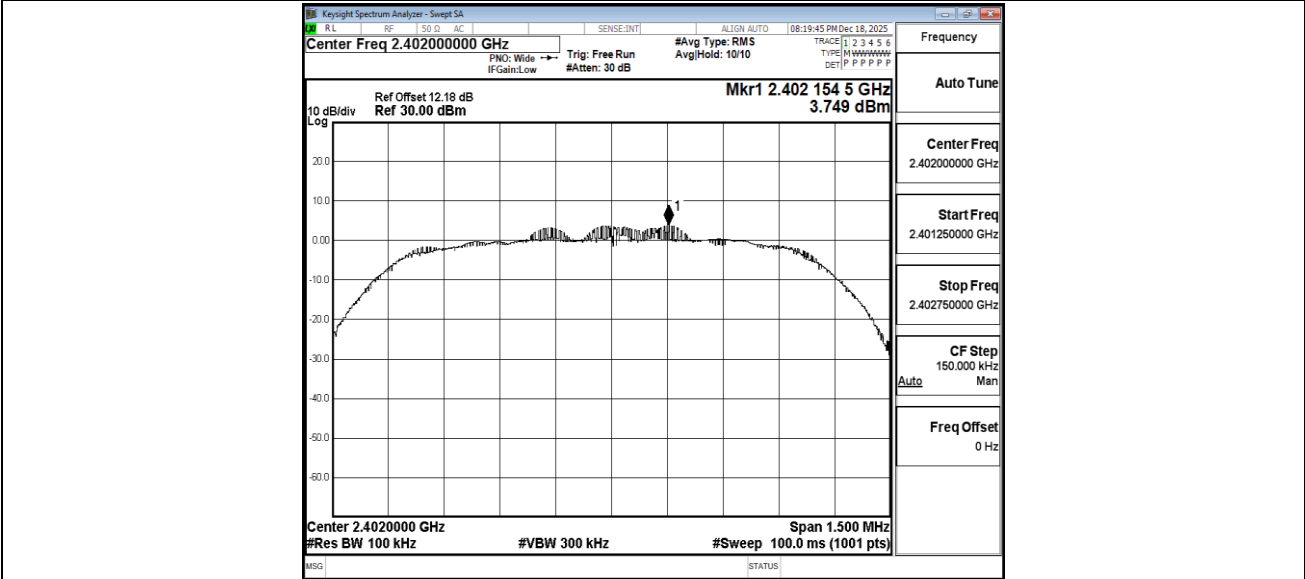
DH5_Ant1_2441_30~1000



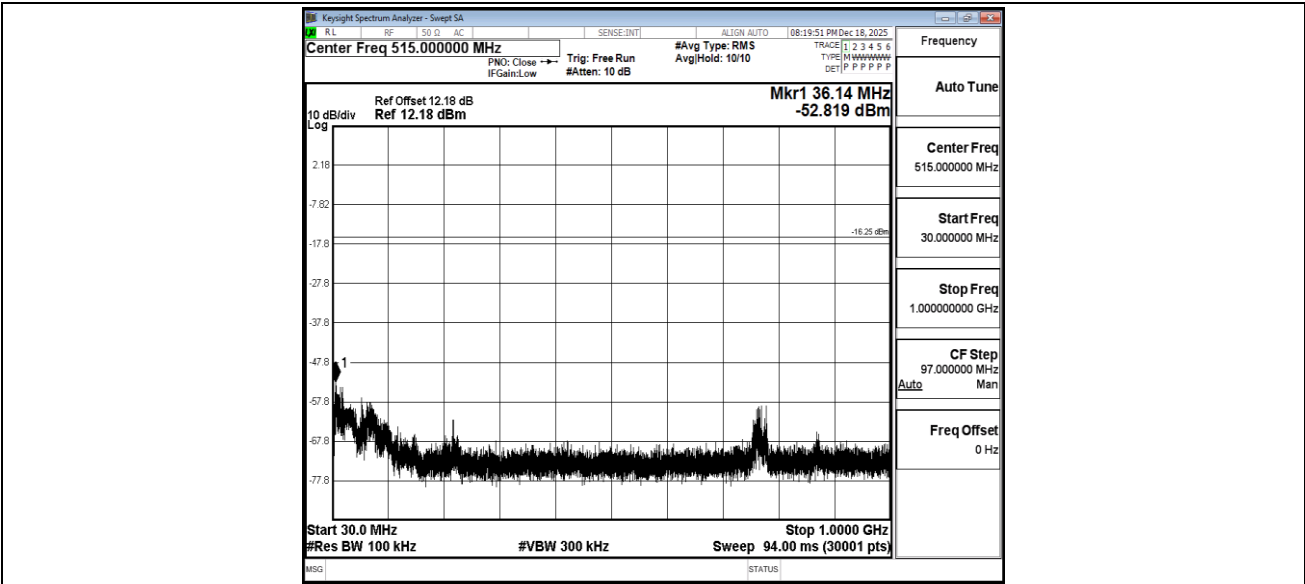




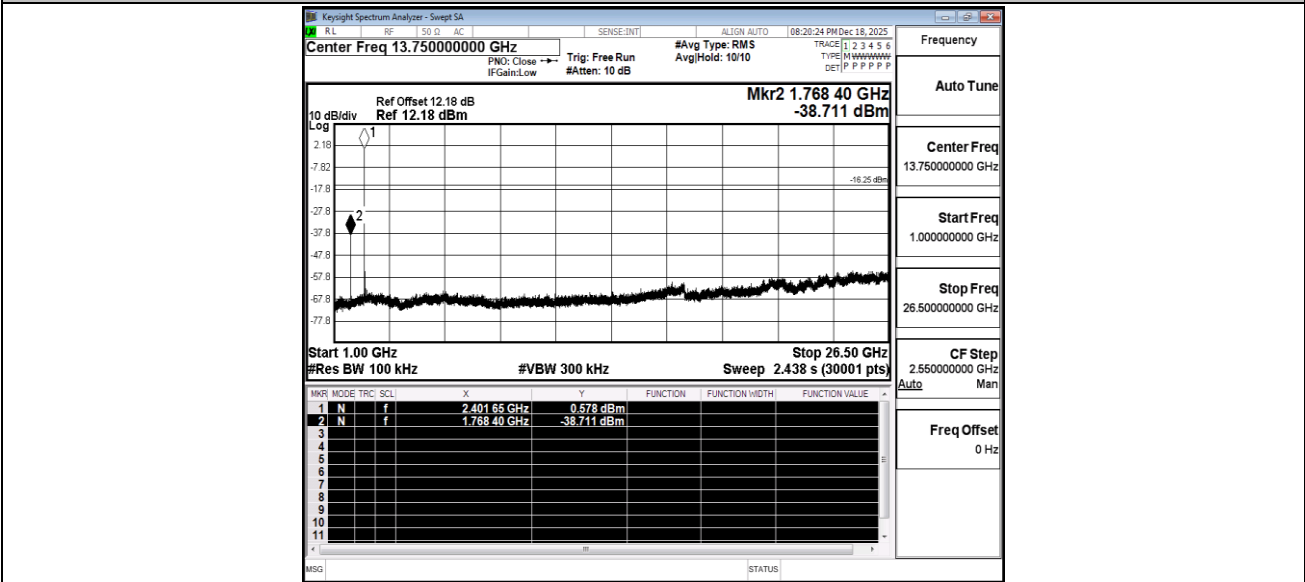
2DH5_Ant1_2402_0~Reference



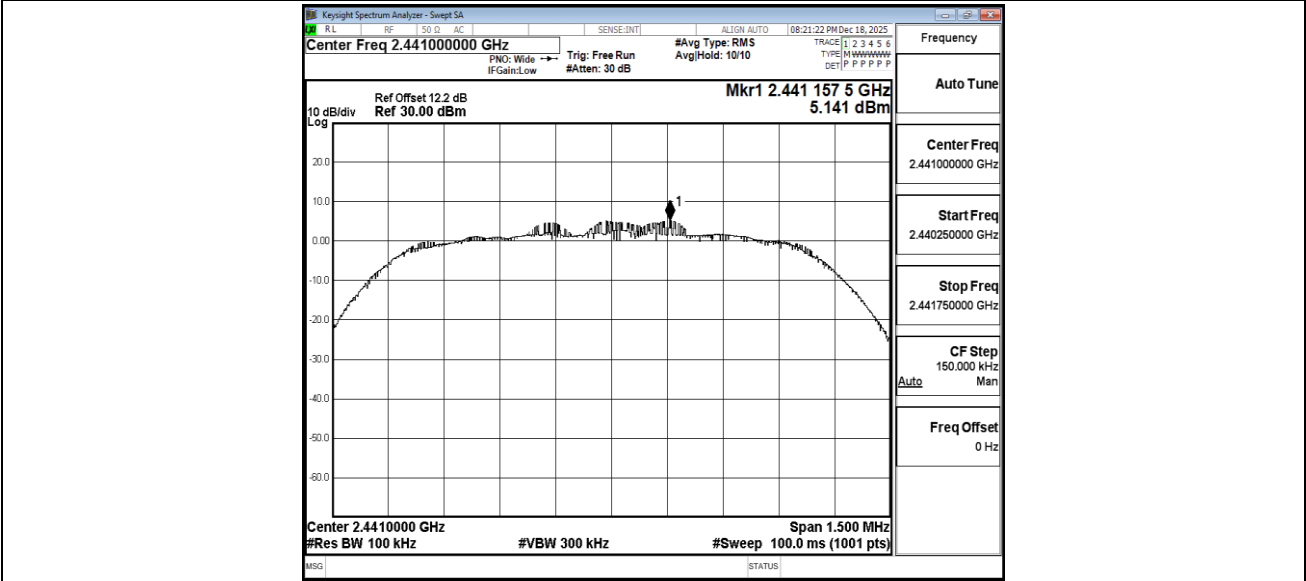
2DH5_Ant1_2402_30~1000



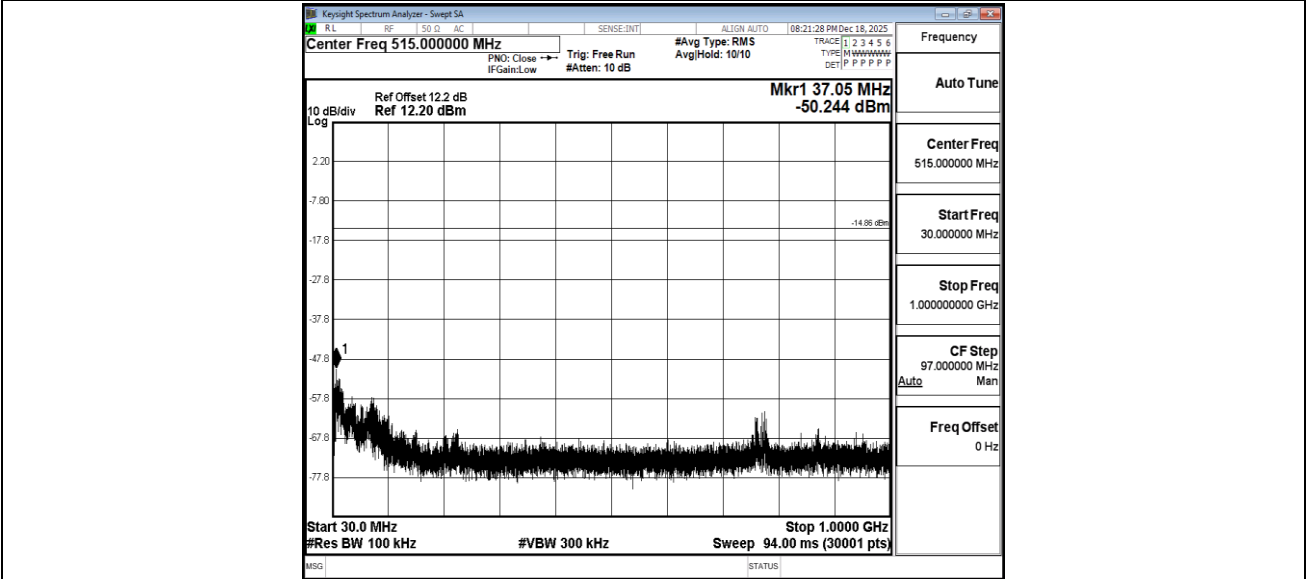
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

