

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: WIRELESS SPEAKER

Test Model: PY-MNRKSP-CRM

Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao xing hai
Supervised by:	Fengliu Tang

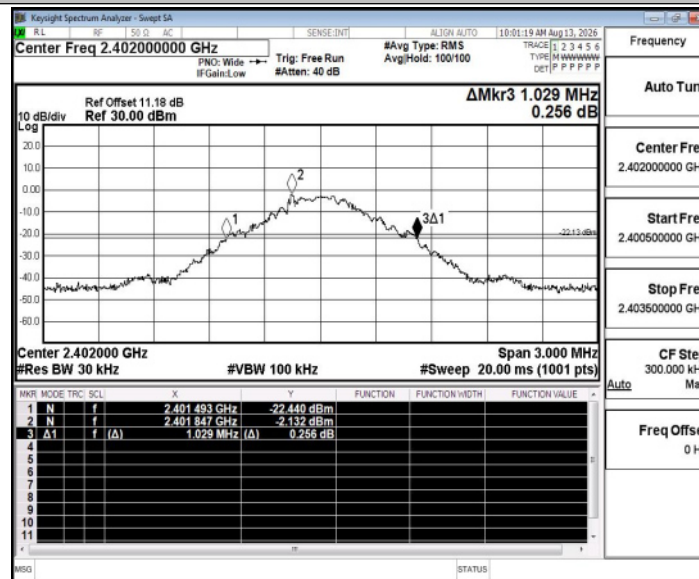
A.1 20dB Emission Bandwidth

Test Result

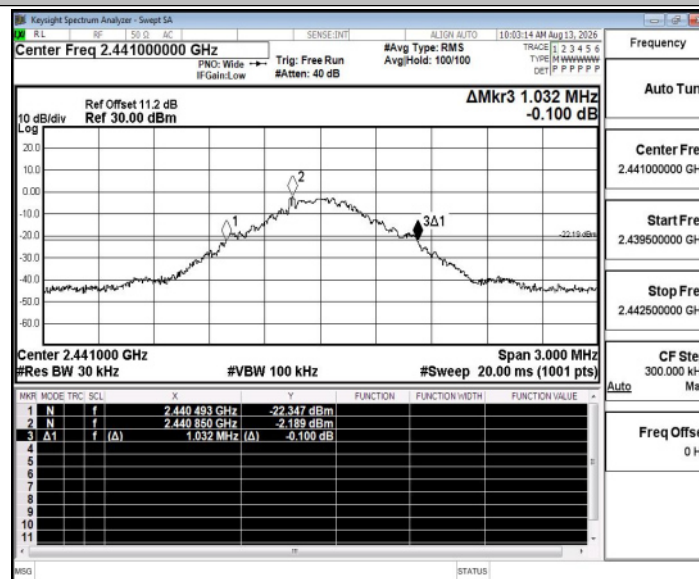
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.493	2402.522	No Limit	PASS
		2441	1.032	2440.493	2441.525	No Limit	PASS
		2480	1.071	2479.460	2480.531	No Limit	PASS
2DH5	Ant1	2402	1.326	2401.349	2402.675	No Limit	PASS
		2441	1.335	2440.346	2441.681	No Limit	PASS
		2480	1.341	2479.340	2480.681	No Limit	PASS
3DH5	Ant1	2402	1.293	2401.364	2402.657	No Limit	PASS
		2441	1.290	2440.364	2441.654	No Limit	PASS
		2480	1.302	2479.355	2480.657	No Limit	PASS

Test Graphs

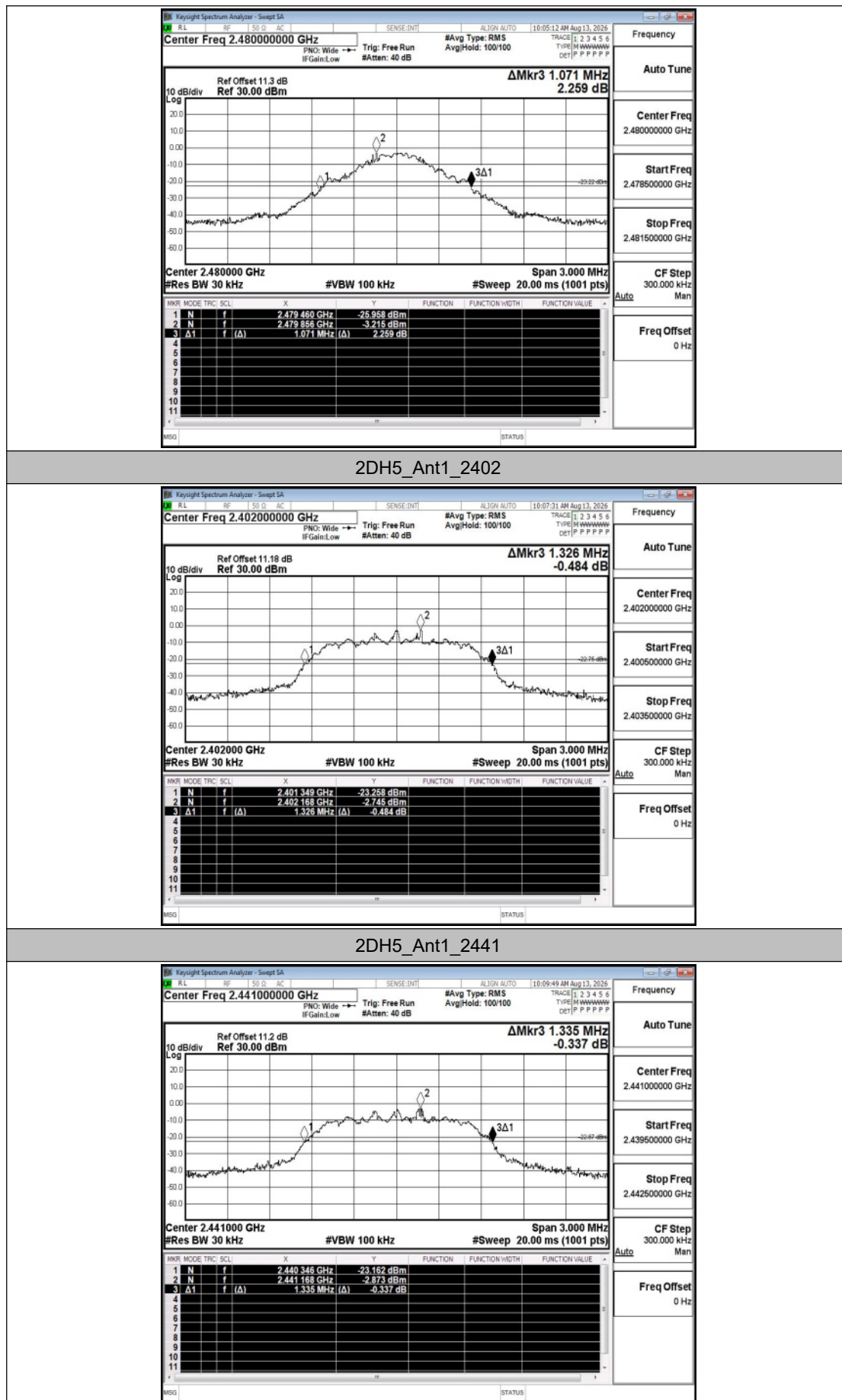
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

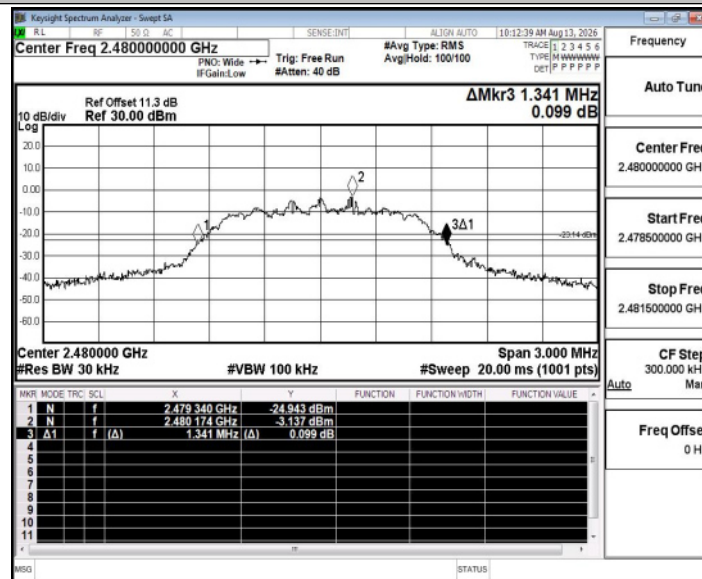


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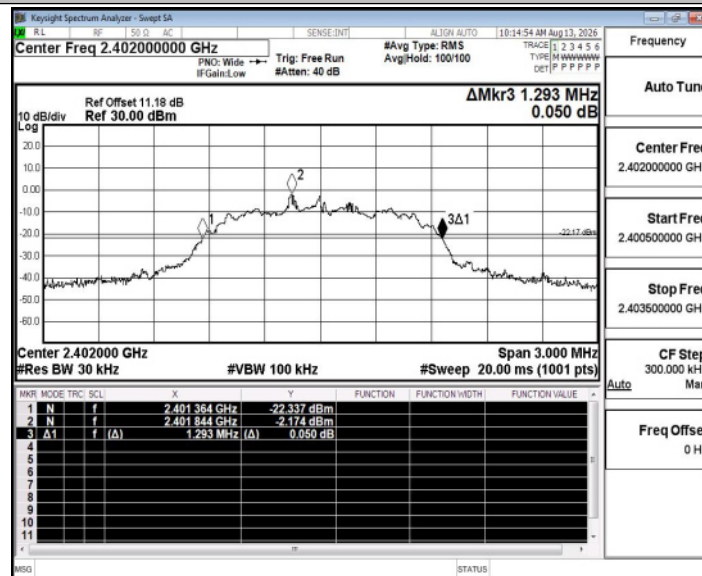
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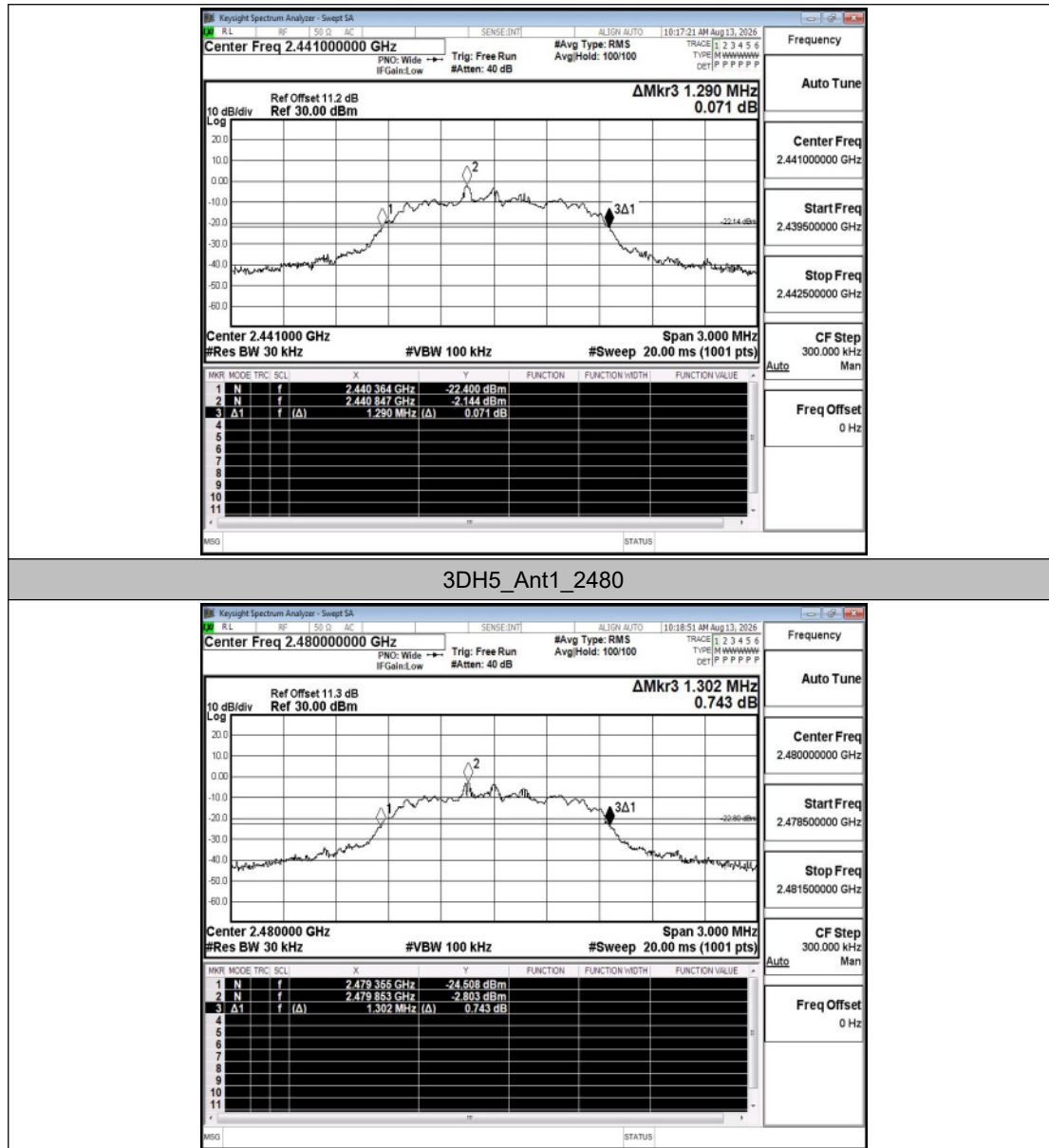
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



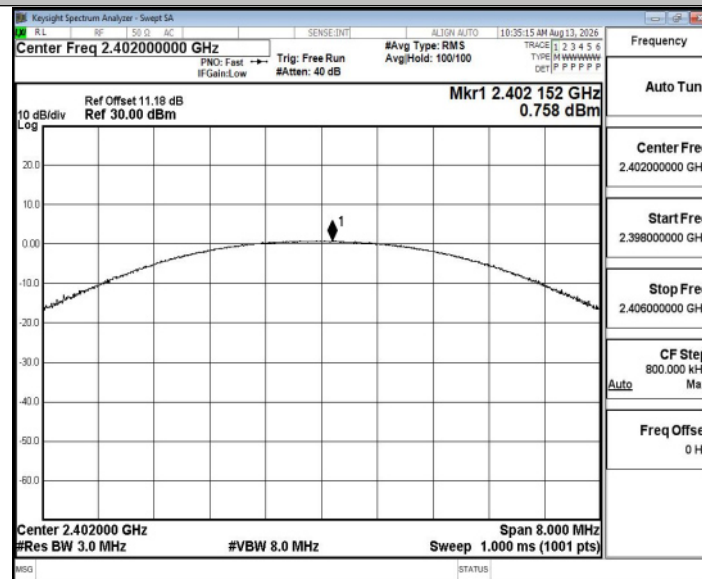
A.2 Maximum Peak conducted output power

Test Result Peak

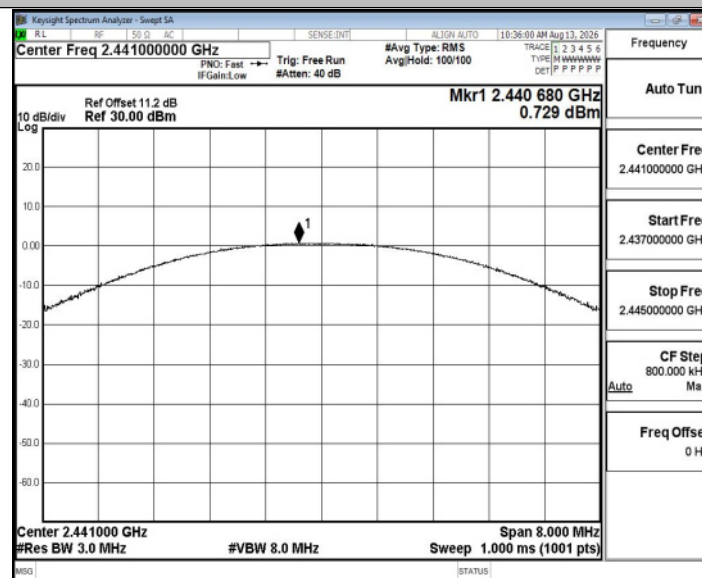
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.76	≤30	PASS
		2441	0.73	≤30	PASS
		2480	0.45	≤30	PASS
2DH5	Ant1	2402	1.38	≤20.97	PASS
		2441	1.41	≤20.97	PASS
		2480	1.14	≤20.97	PASS
3DH5	Ant1	2402	1.72	≤20.97	PASS
		2441	1.65	≤20.97	PASS
		2480	1.54	≤20.97	PASS

Test Graphs

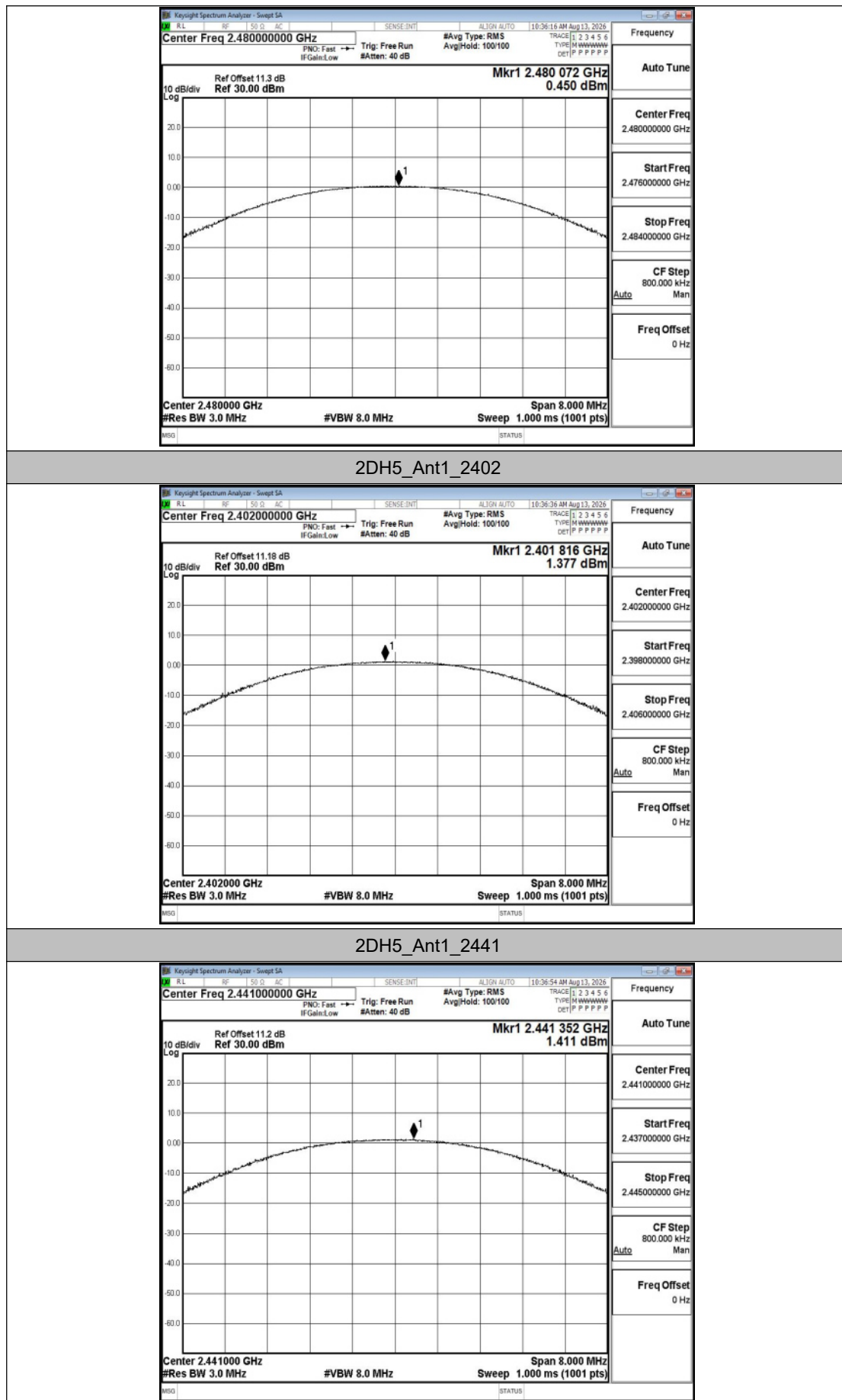
DH5_Ant1_2402



DH5_Ant1_2441



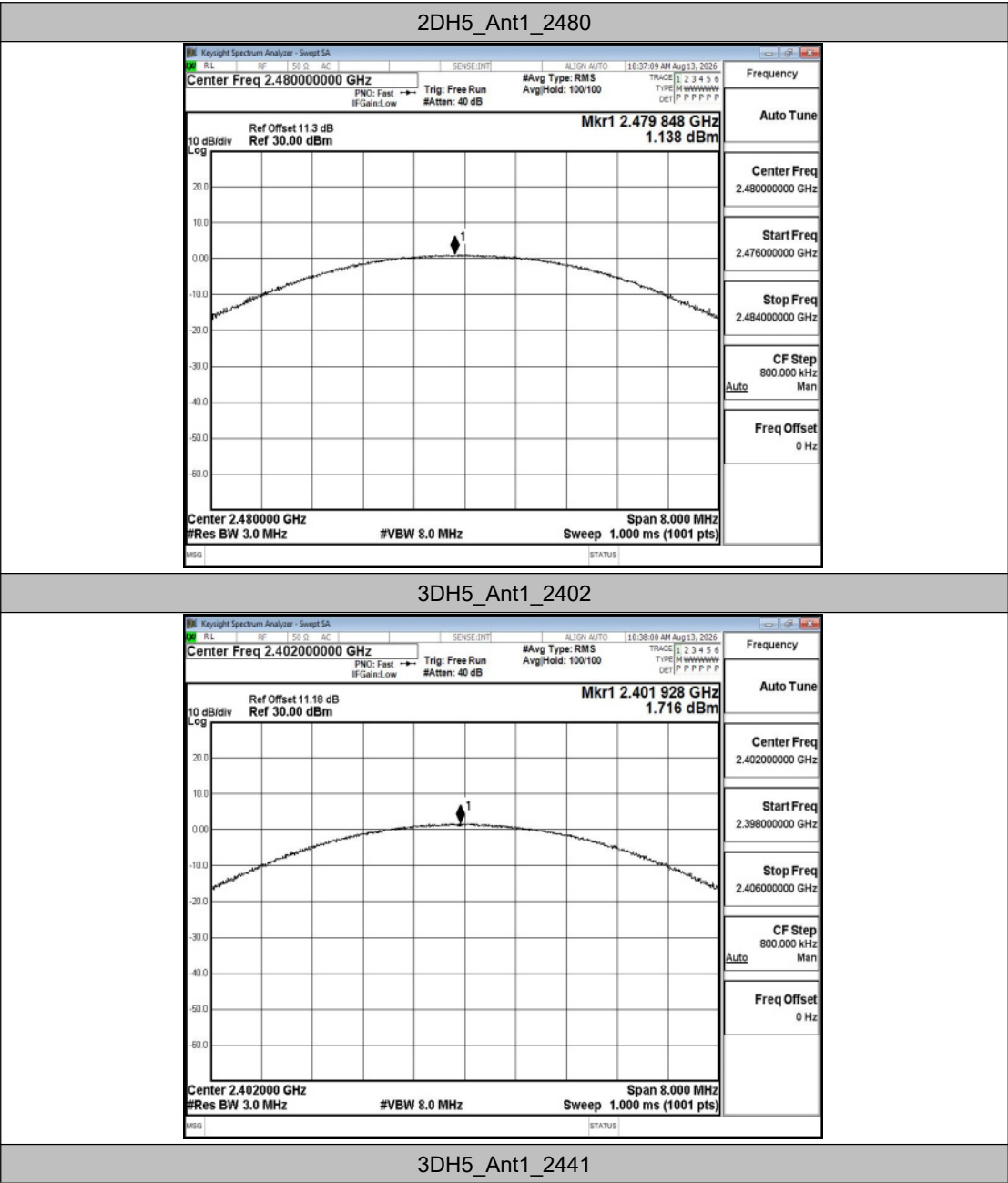
DH5_Ant1_2480

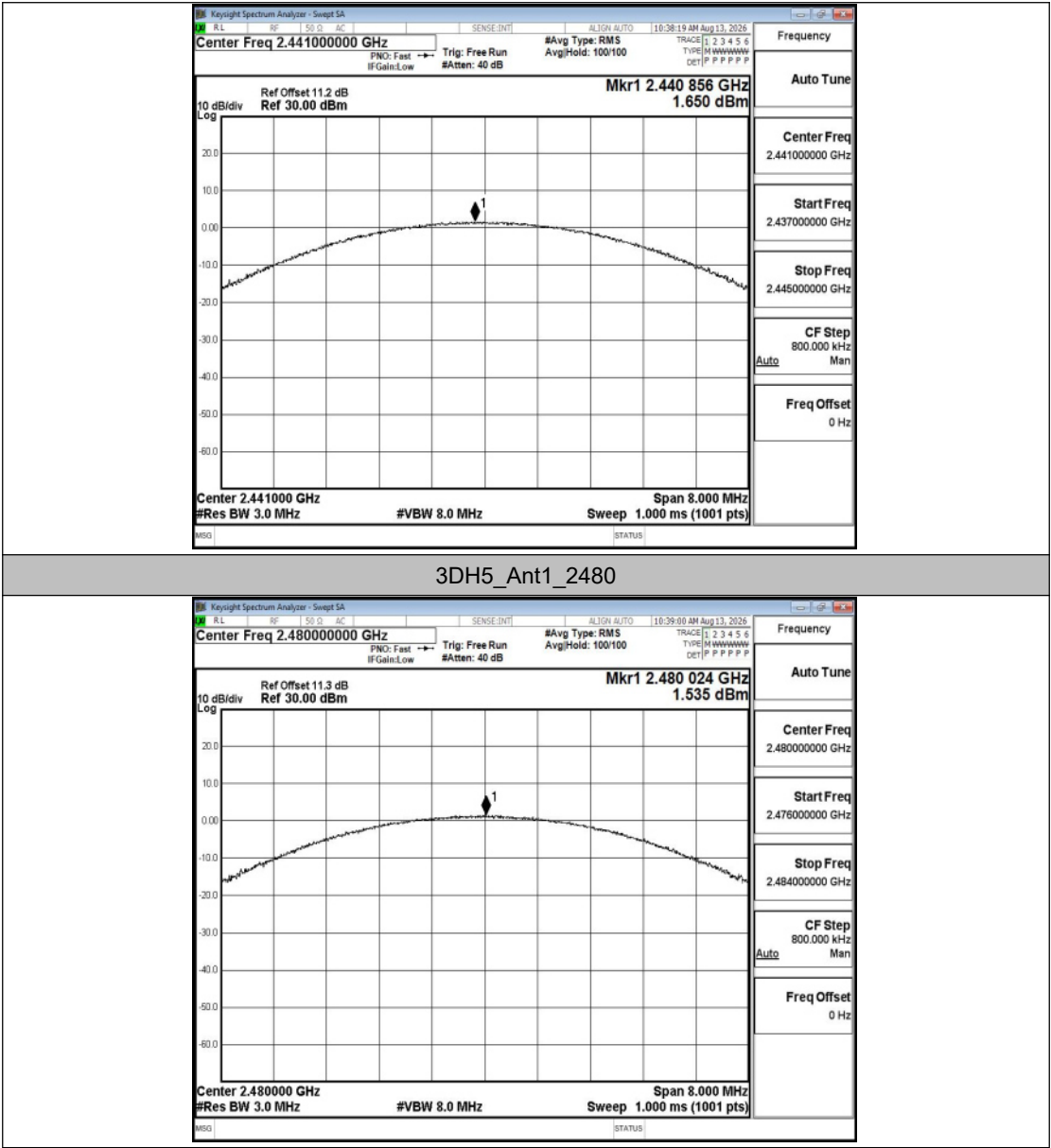


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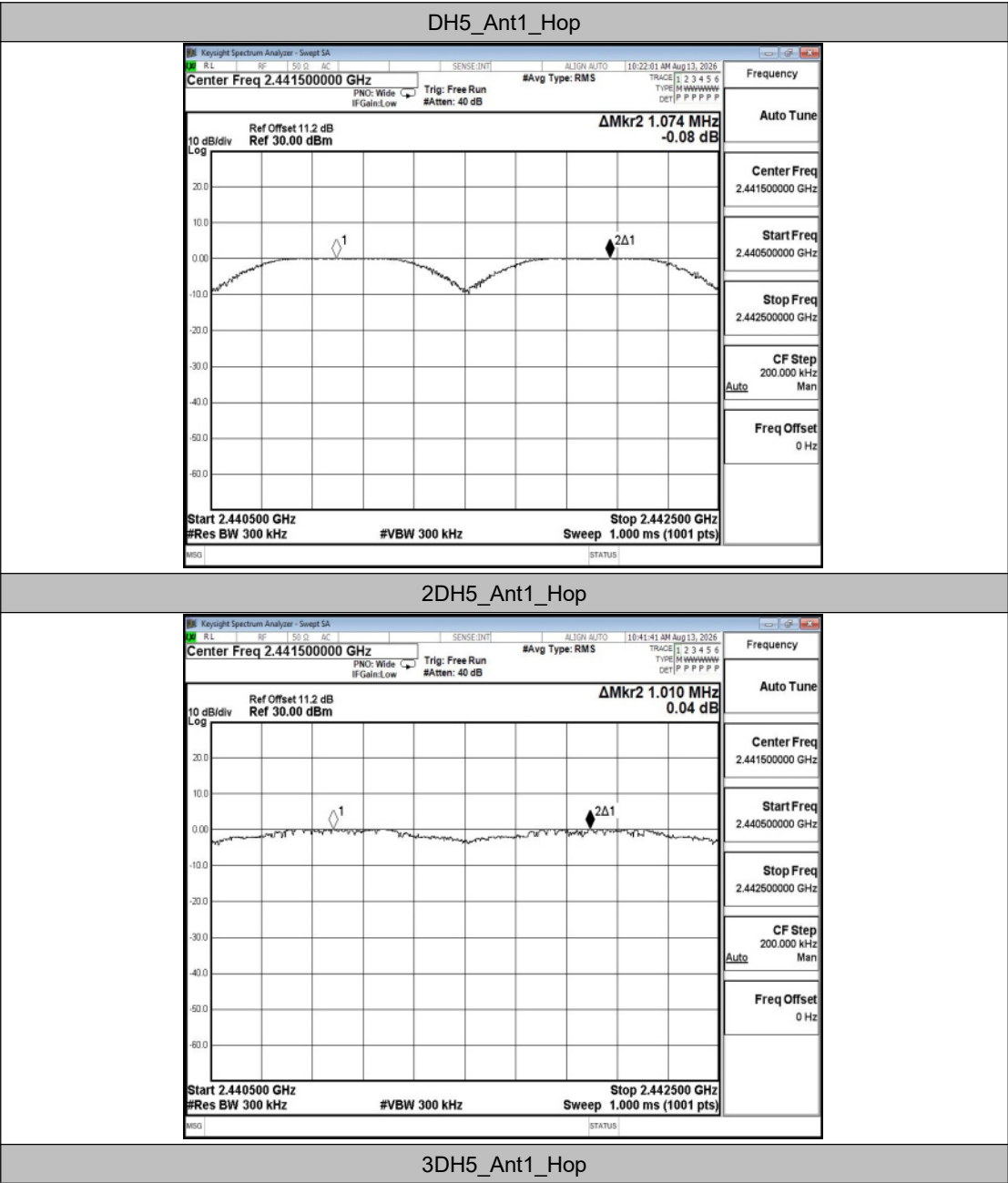


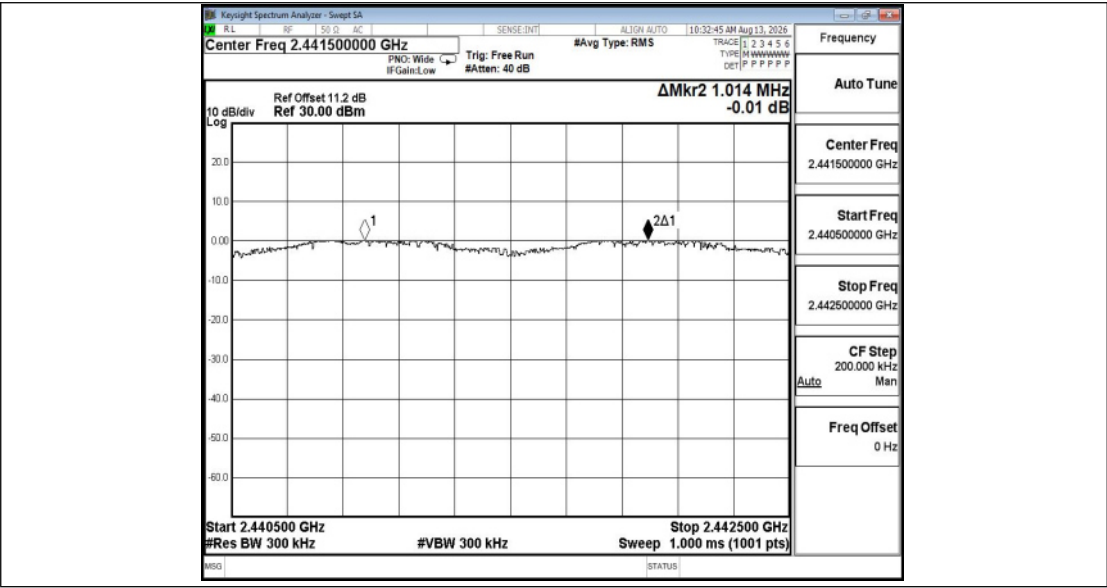
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.074	≥1.071	PASS
2DH5	Ant1	Hop	1.01	≥0.894	PASS
3DH5	Ant1	Hop	1.014	≥0.868	PASS

Test Graphs



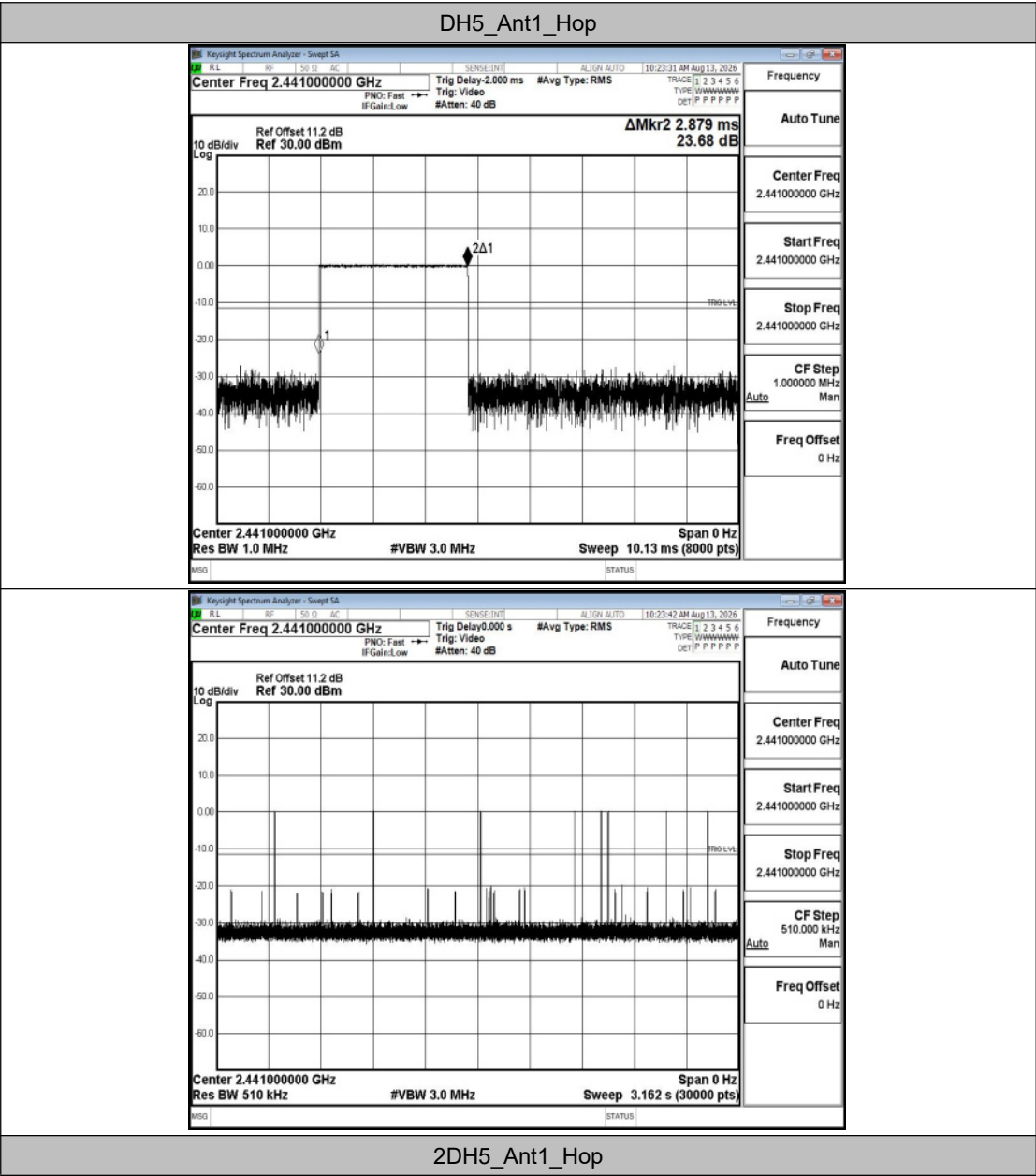


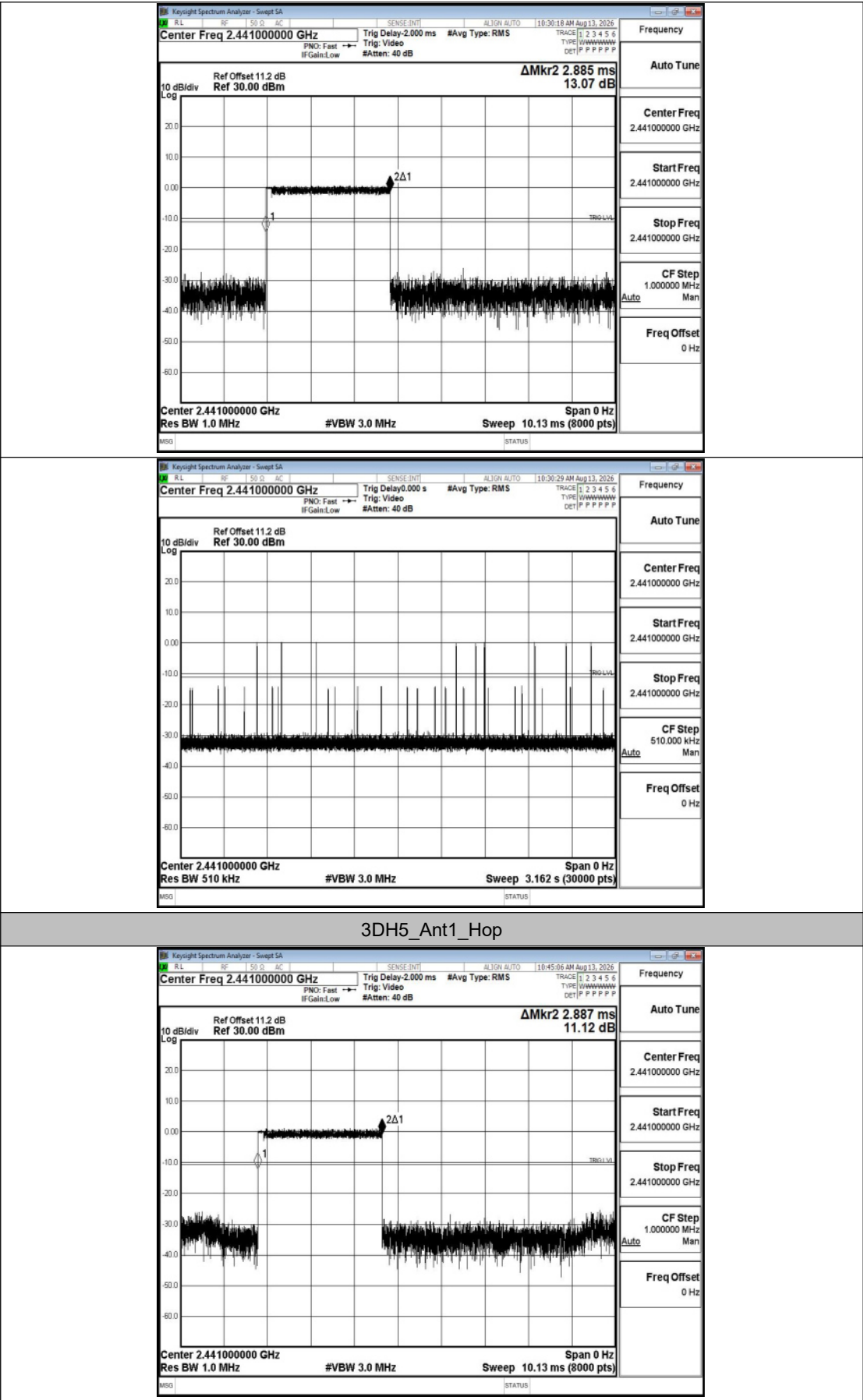
A.4 Time of occupancy

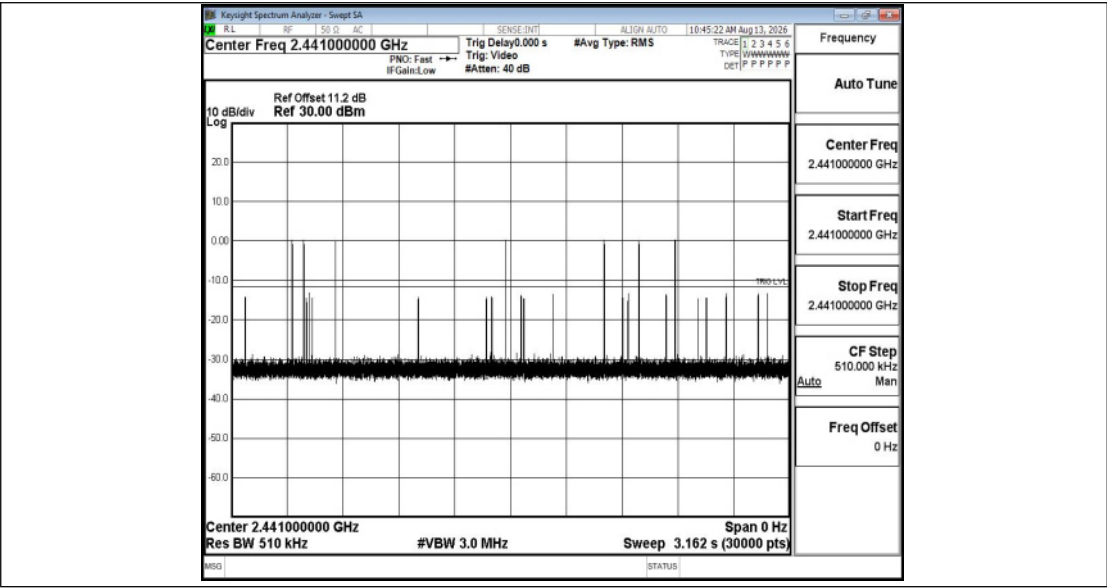
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.879	90	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
3DH5	Ant1	Hop	2.887	80	0.231	≤0.4	PASS

Test Graphs





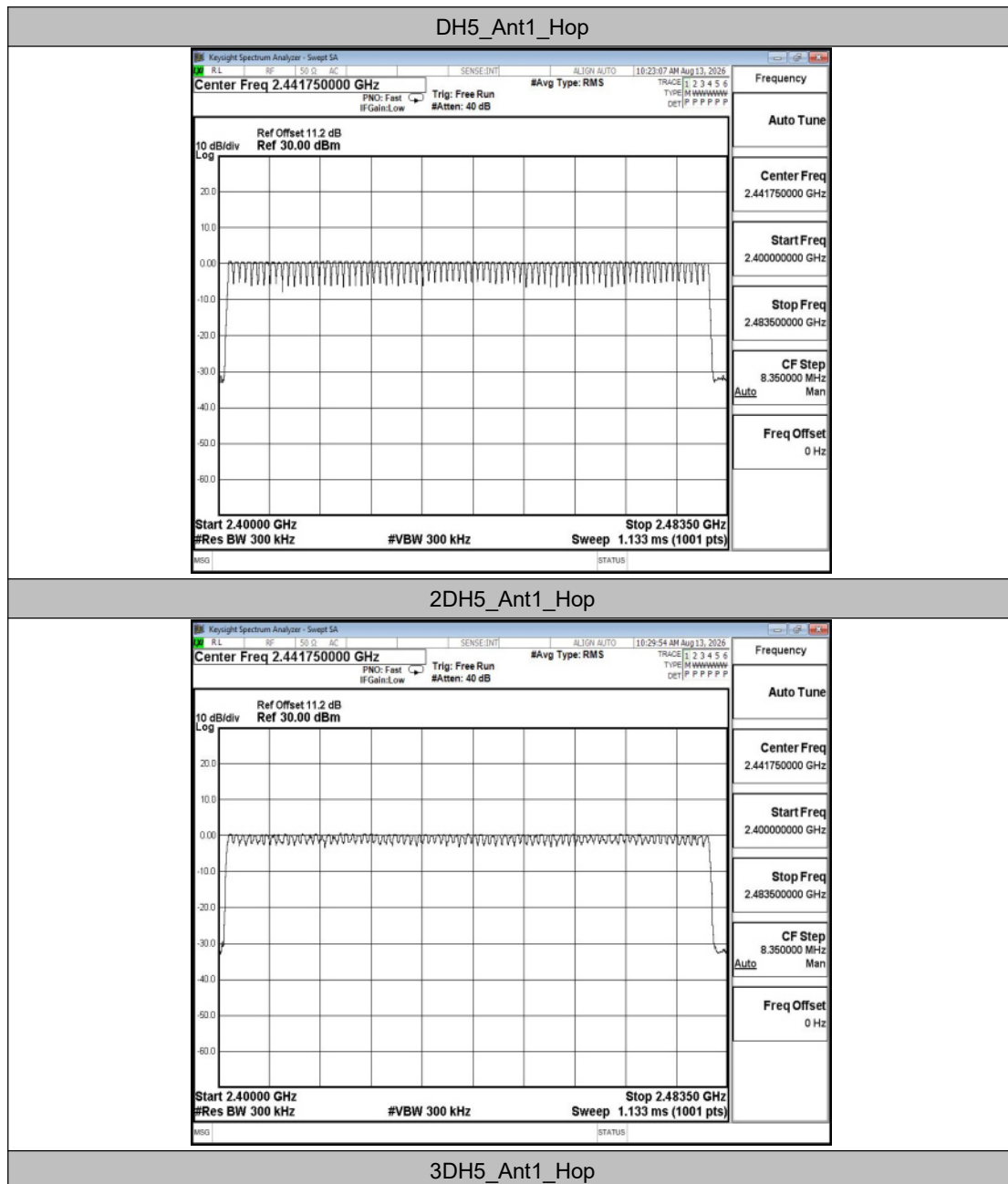


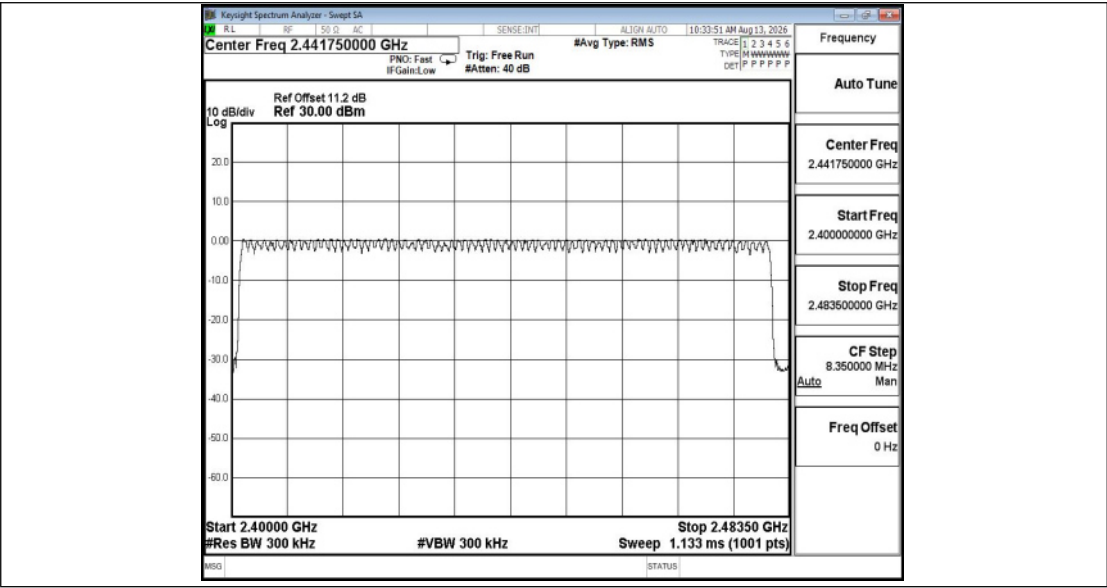
A.5 Number of hopping channels

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



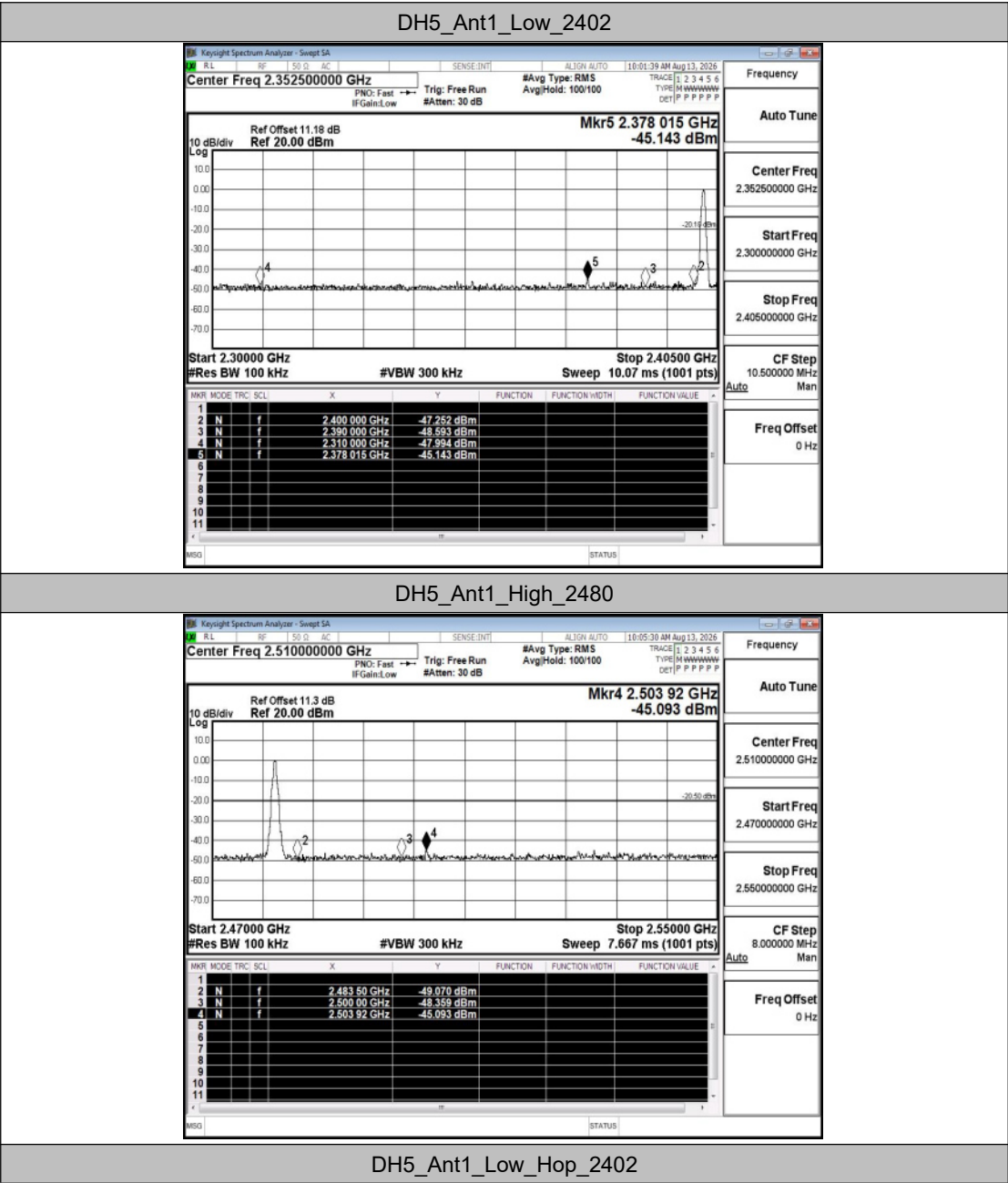


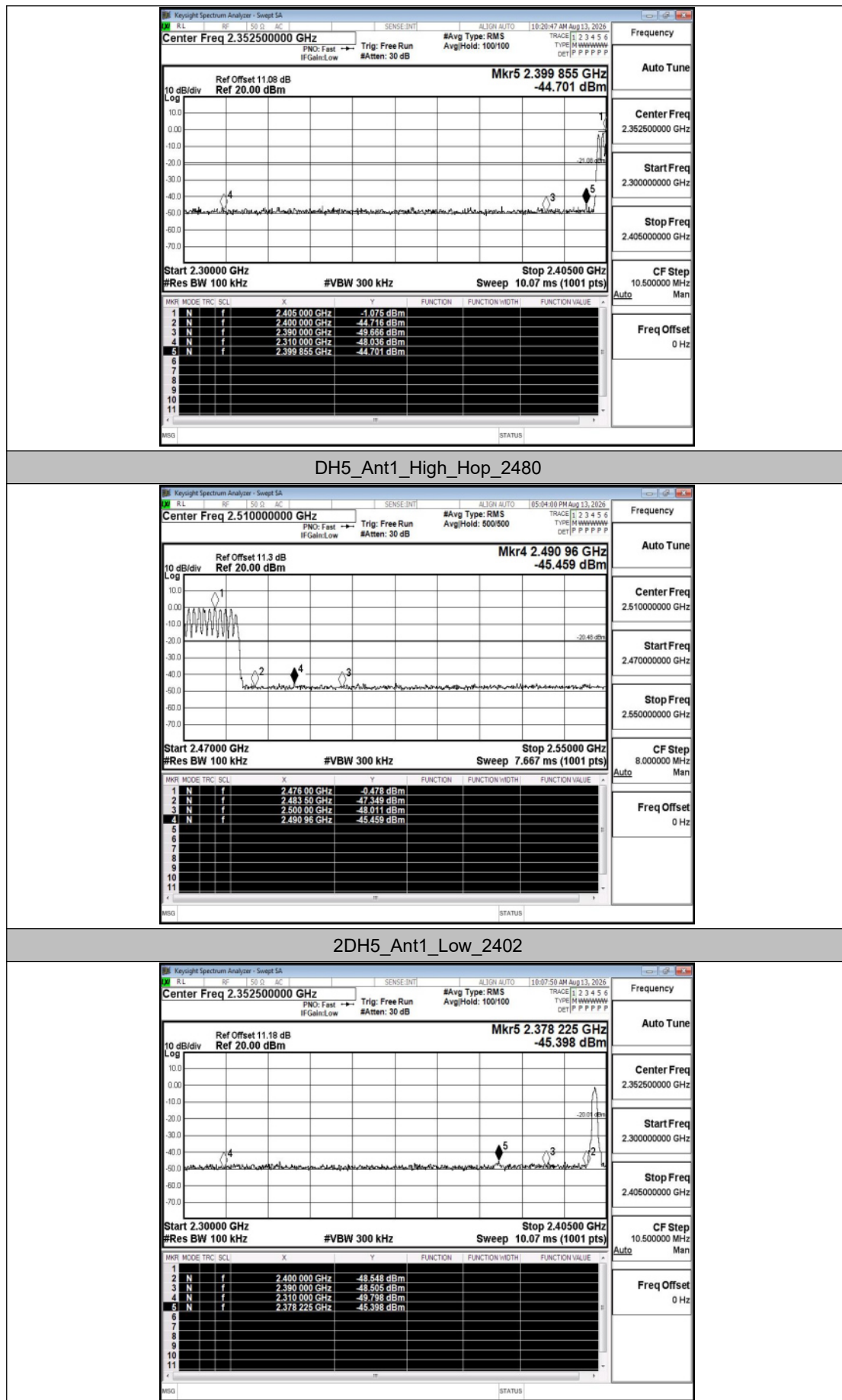
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.18	-45.14	≤ -20.18	PASS
		High	2480	-0.50	-45.09	≤ -20.5	PASS
		Low	Hop_2402	-1.08	-44.7	≤ -21.08	PASS
		High	Hop_2480	-0.80	-44.77	≤ -20.8	PASS
2DH5	Ant1	Low	2402	-0.01	-45.4	≤ -20.01	PASS
		High	2480	-0.76	-45.49	≤ -20.76	PASS
		Low	Hop_2402	-3.89	-45.91	≤ -23.89	PASS
		High	Hop_2480	-4.24	-45.58	≤ -24.24	PASS
3DH5	Ant1	Low	2402	-1.91	-44.84	≤ -21.91	PASS
		High	2480	-2.44	-44.83	≤ -22.44	PASS
		Low	Hop_2402	-3.84	-46.21	≤ -23.84	PASS
		High	Hop_2480	-1.52	-45.26	≤ -21.52	PASS

Test Graphs

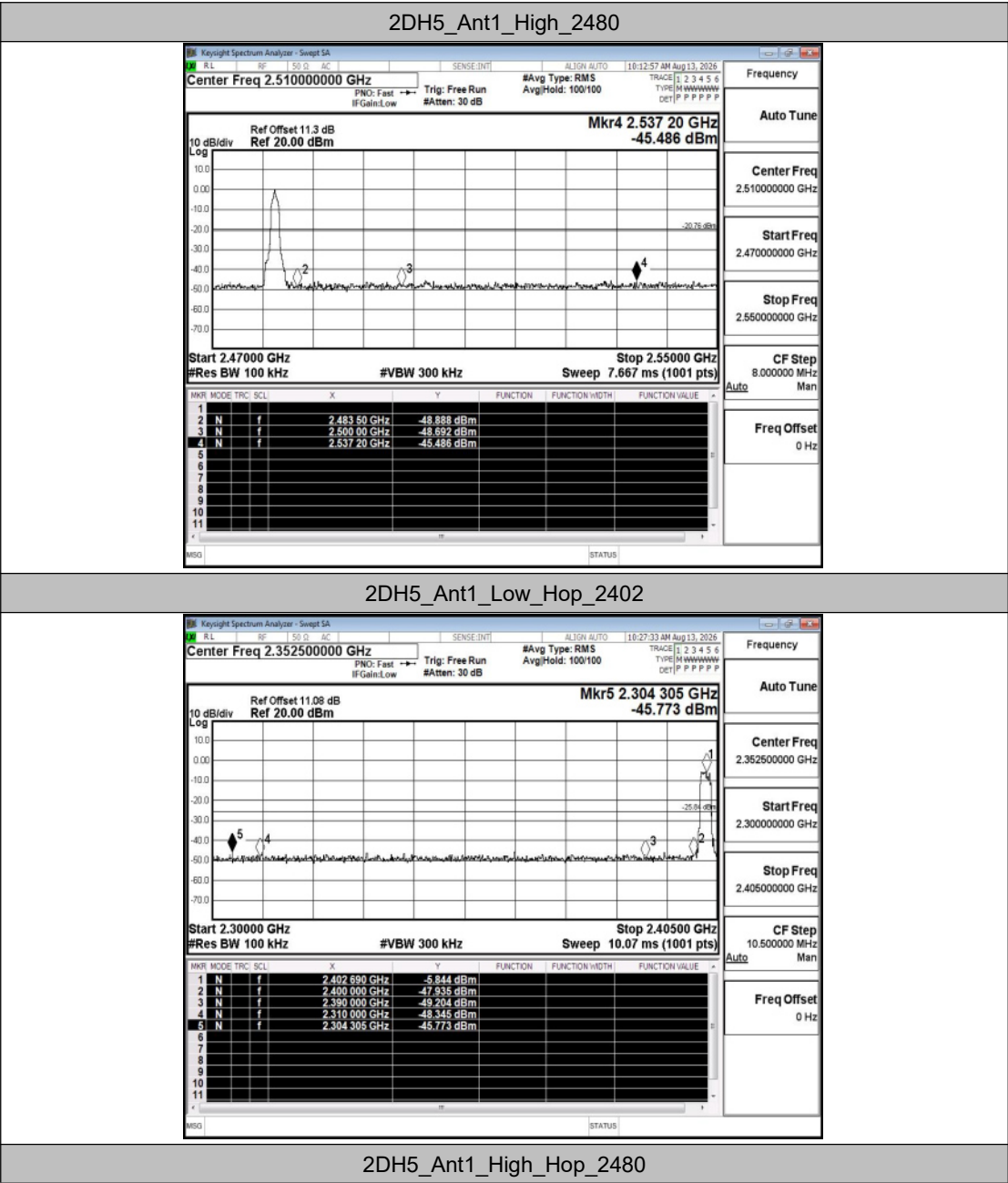


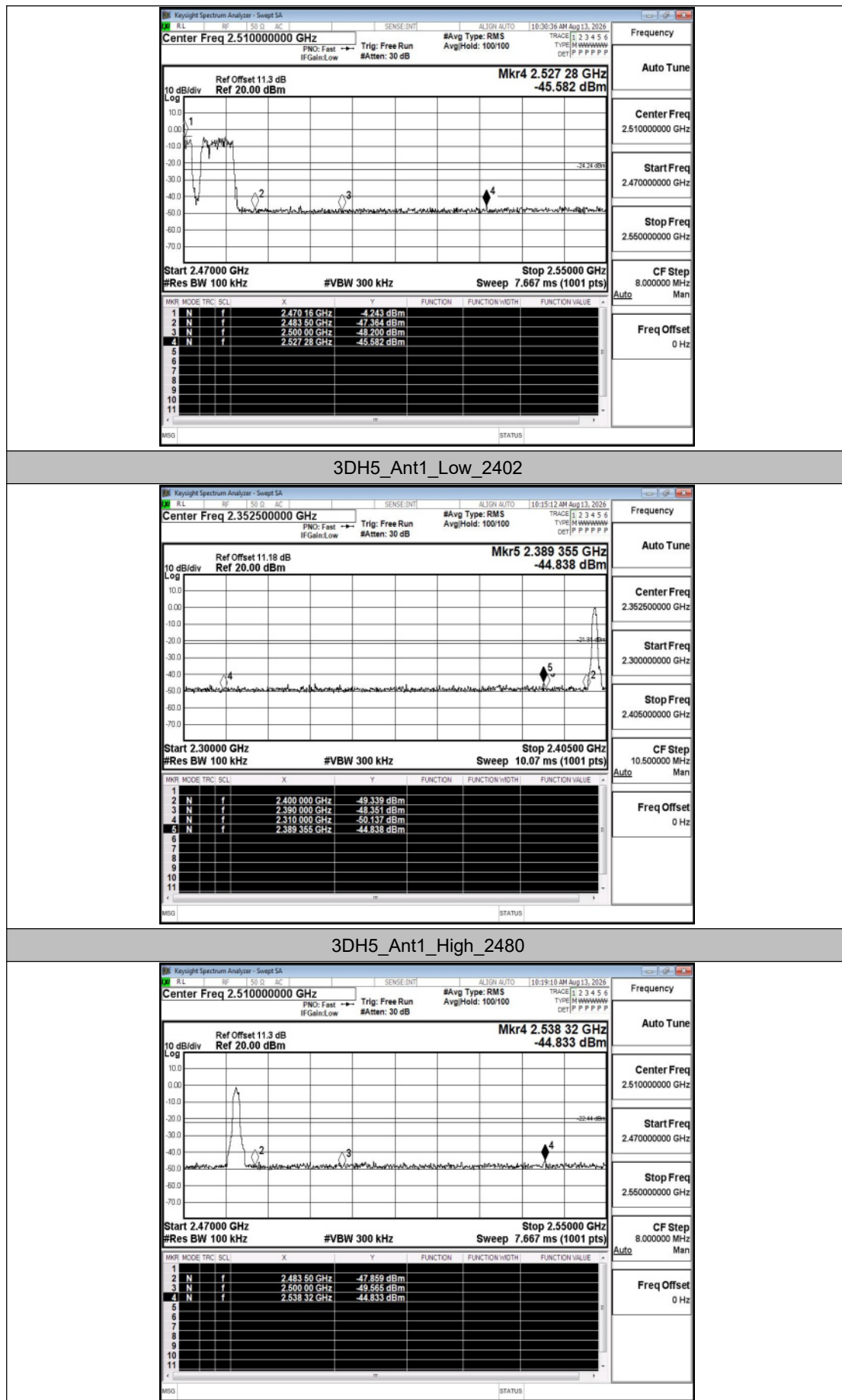


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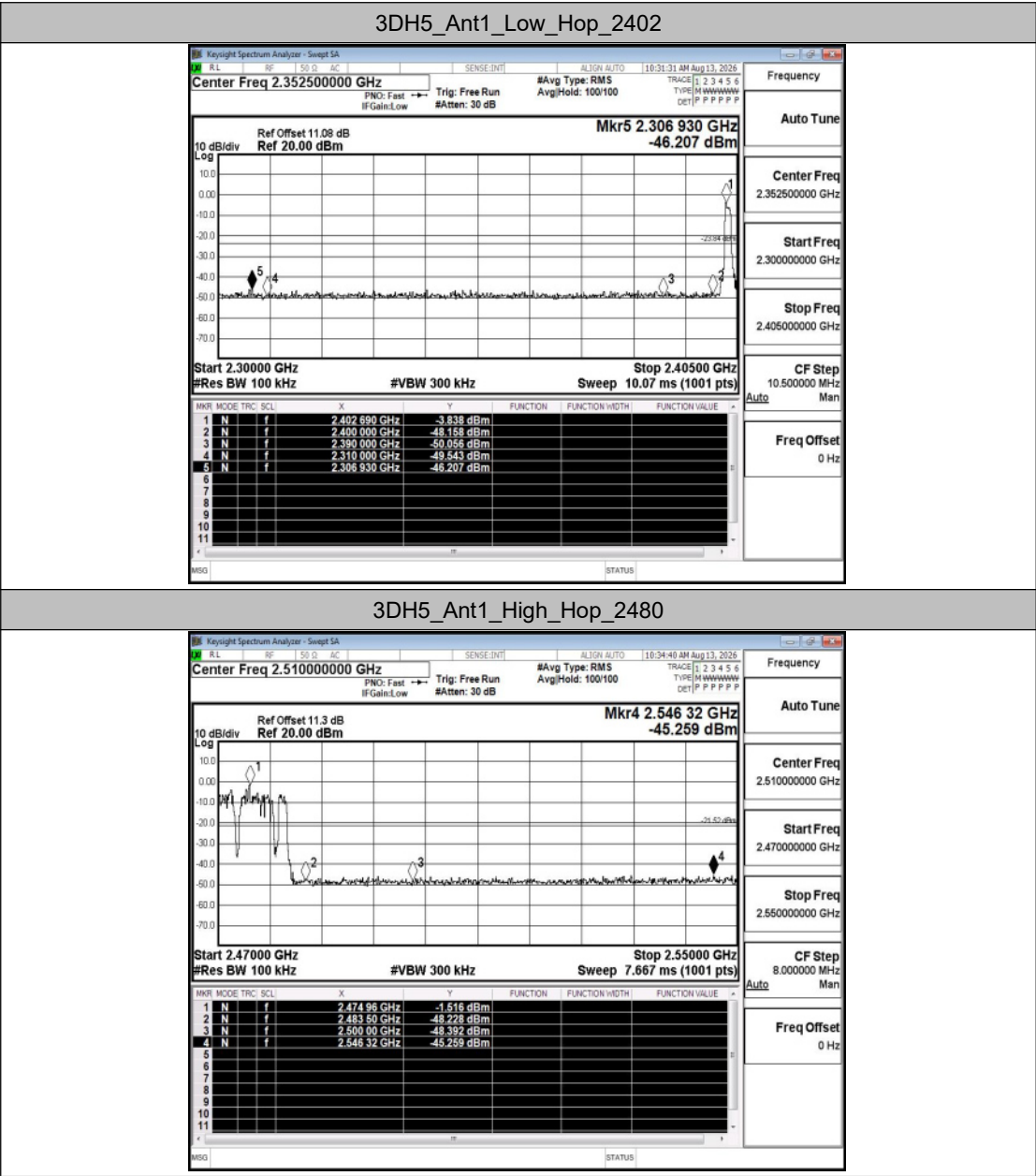




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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-69.68	≤-19.98	PASS
			1000~26500	0.02	-32.71	≤-19.98	PASS
		2441	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.87	≤-20.13	PASS
			1000~26500	-0.13	-32.03	≤-20.13	PASS
		2480	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-69.2	≤-20.37	PASS
			1000~26500	-0.37	-32.34	≤-20.37	PASS
2DH5	Ant1	2402	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-69.85	≤-19.99	PASS
			1000~26500	0.01	-36.7	≤-19.99	PASS
		2441	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.9	≤-20.13	PASS
			1000~26500	-0.13	-34.11	≤-20.13	PASS
		2480	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-70.19	≤-20.36	PASS
			1000~26500	-0.36	-33.28	≤-20.36	PASS
3DH5	Ant1	2402	Reference	0.00	0.00	---	PASS
			30~1000	0.00	-68.41	≤-20	PASS
			1000~26500	0.00	-34.55	≤-20	PASS
		2441	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-69.7	≤-20.11	PASS
			1000~26500	-0.11	-32.92	≤-20.11	PASS
		2480	Reference	-0.32	-0.32	---	PASS
			30~1000	-0.32	-69.96	≤-20.32	PASS
			1000~26500	-0.32	-31.13	≤-20.32	PASS

Test Graphs

