



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: BT Receiver 511

Test Model: SEI-SERXBT

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

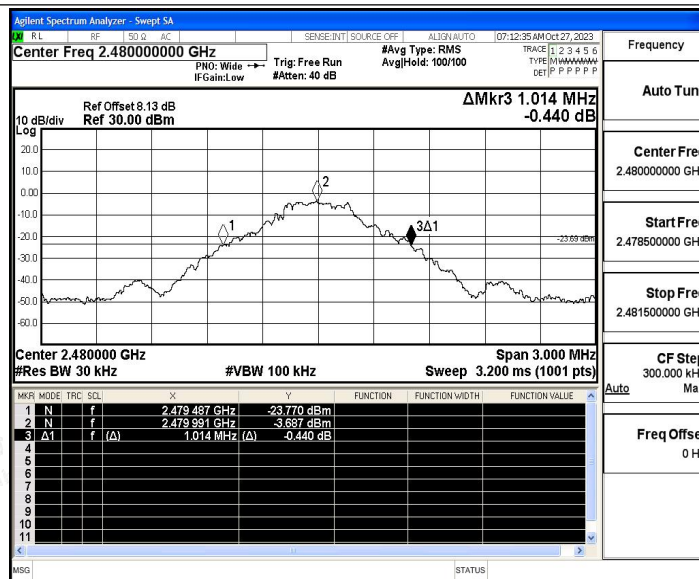
Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.466	2402.489	---	Pass
		2441	1.023	2440.475	2441.498	---	Pass
		2480	1.014	2479.487	2480.501	---	Pass
2DH5	Ant1	2402	1.296	2401.355	2402.651	---	Pass
		2441	1.329	2440.328	2441.657	---	Pass
		2480	1.284	2479.361	2480.645	---	Pass
3DH5	Ant1	2402	1.290	2401.349	2402.639	---	Pass
		2441	1.308	2440.340	2441.648	---	Pass
		2480	1.275	2479.346	2480.621	---	Pass

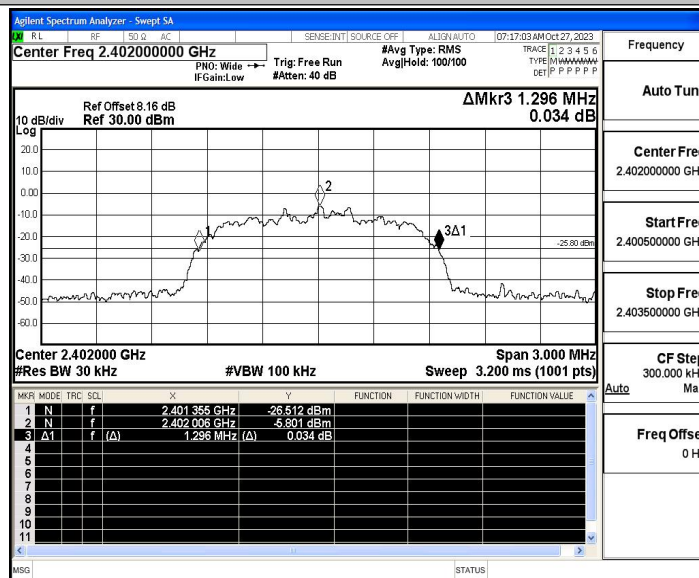


Test Graphs



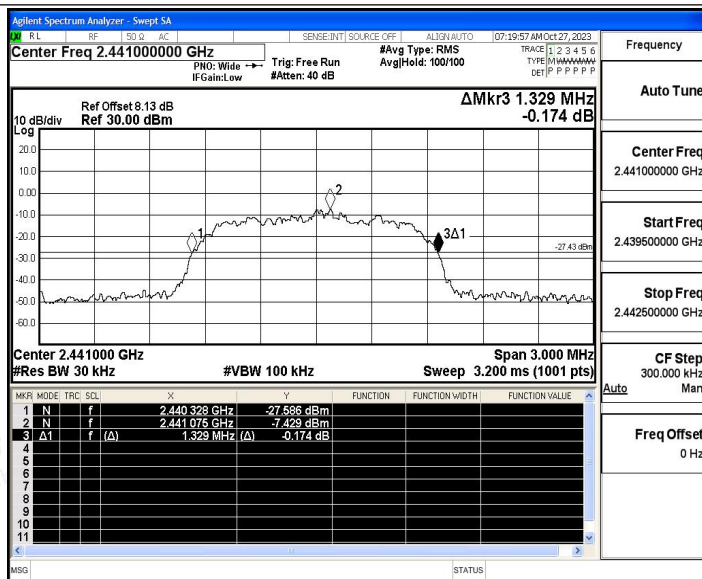


2DH5_Ant1_2402

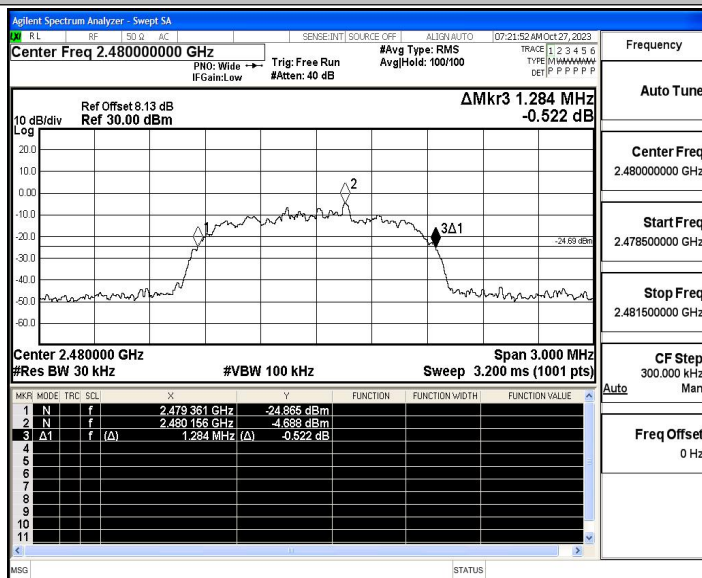


2DH5_Ant1_2441



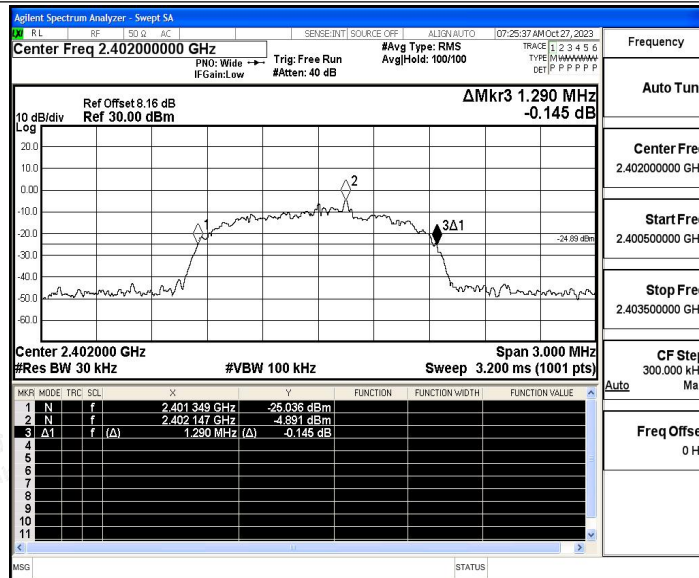


2DH5_Ant1_2480

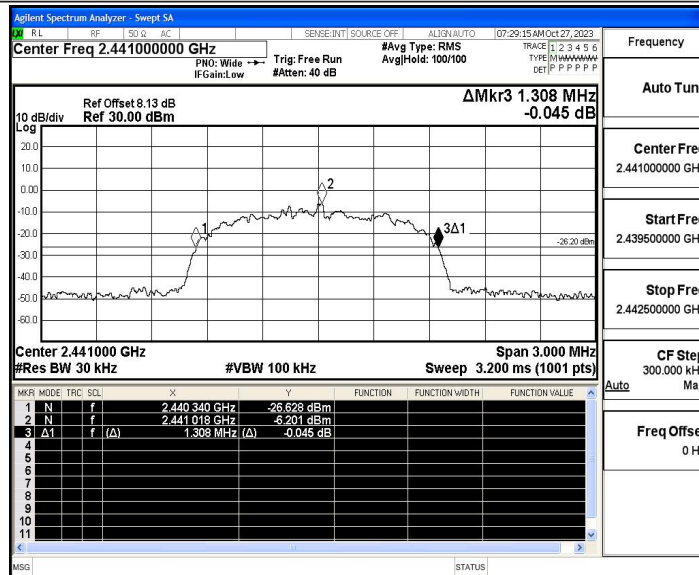


3DH5_Ant1_2402



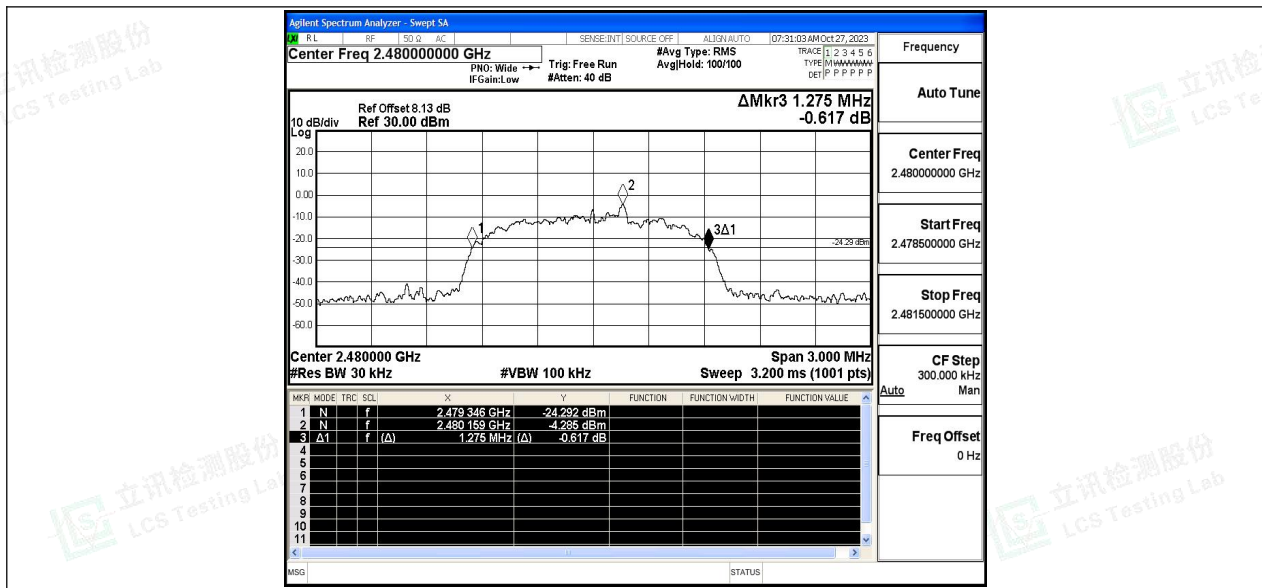


3DH5_Ant1_2441



3DH5_Ant1_2480





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A.2 Occupied Channel Bandwidth

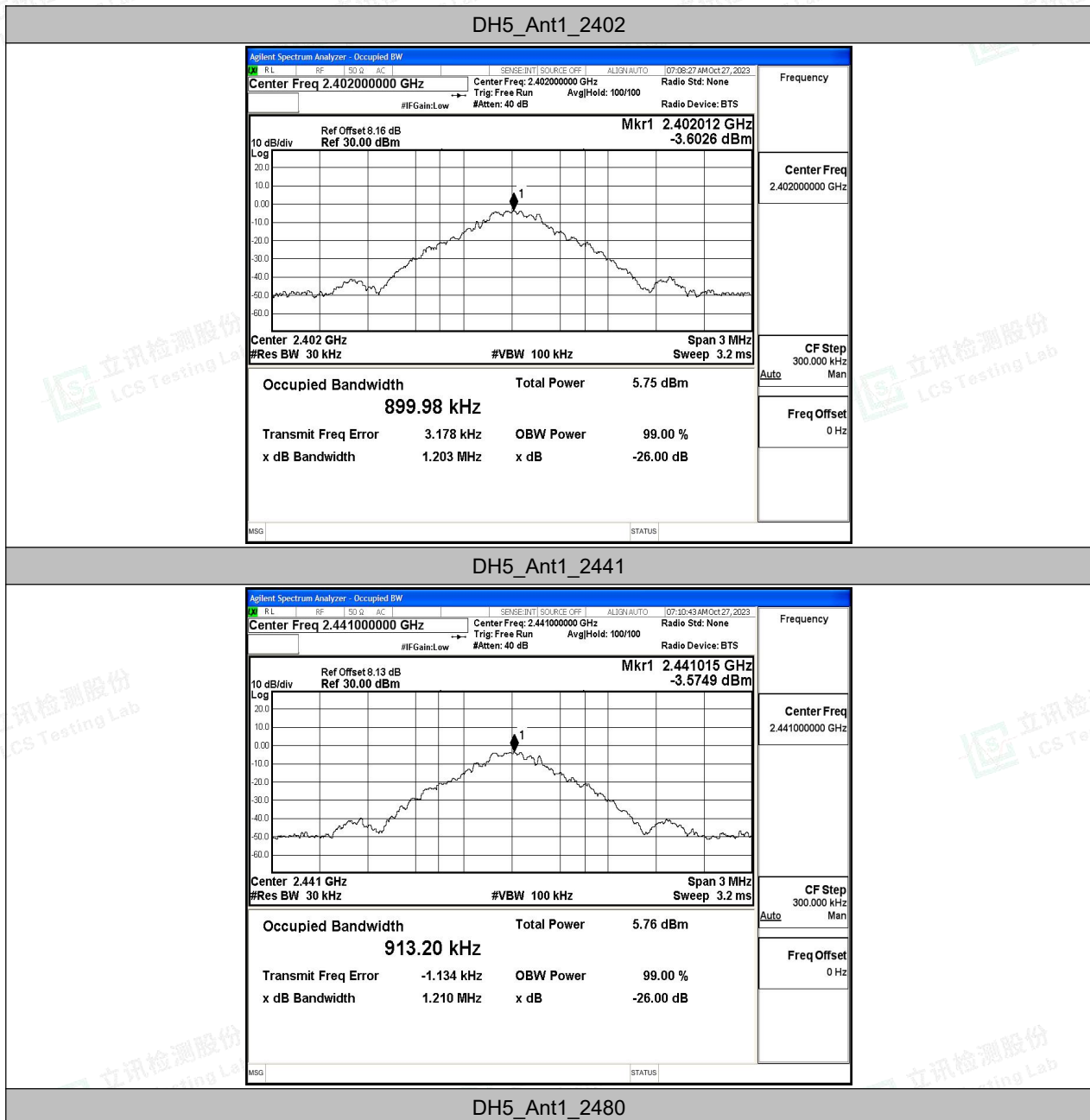
Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89998	2401.5532	2402.4532	---	---
		2441	0.91320	2440.5423	2441.4555	---	---
		2480	0.90660	2479.5471	2480.4537	---	---
2DH5	Ant1	2402	1.1737	2401.4061	2402.5798	---	---
		2441	1.1771	2440.4034	2441.5805	---	---
		2480	1.1714	2479.4077	2480.5791	---	---
3DH5	Ant1	2402	1.1827	2401.4033	2402.5860	---	---
		2441	1.1930	2440.3946	2441.5876	---	---
		2480	1.1777	2479.4021	2480.5798	---	---





Test Graphs

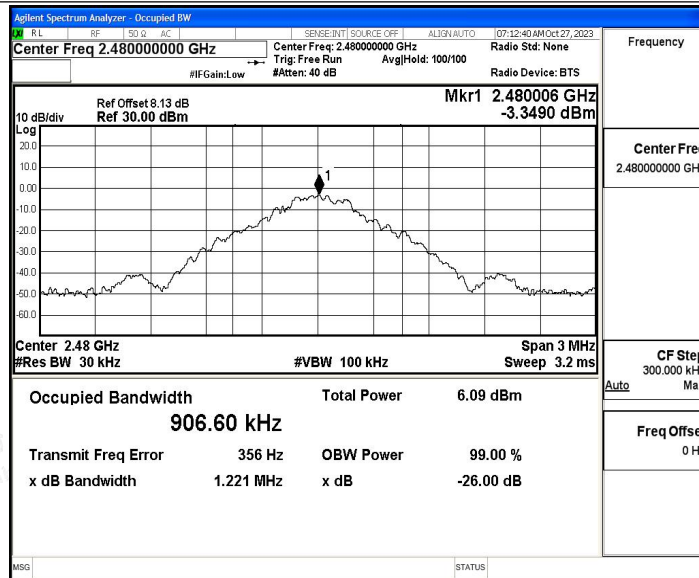


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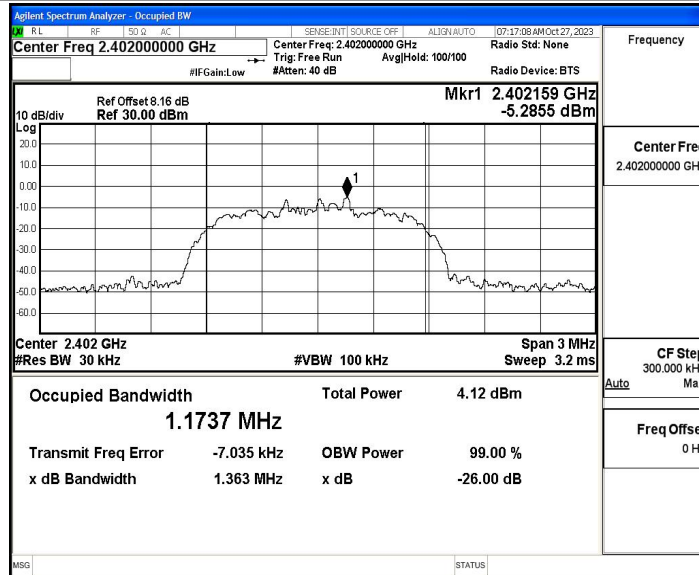
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2DH5_Ant1_2402



2DH5_Ant1_2441

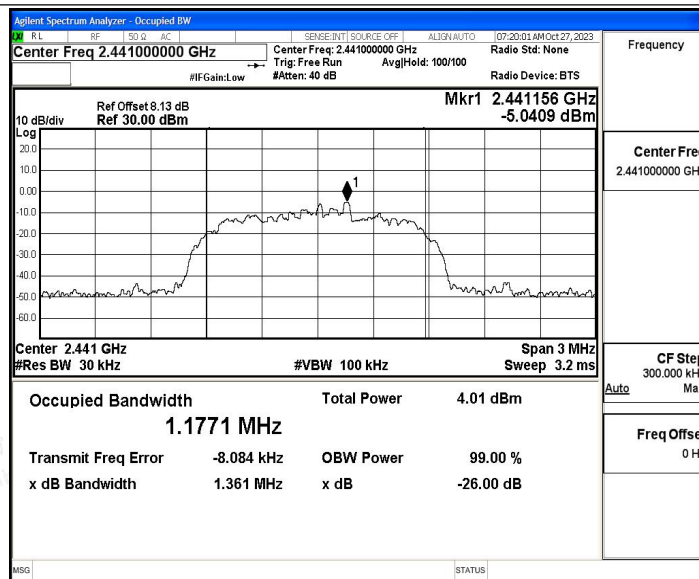


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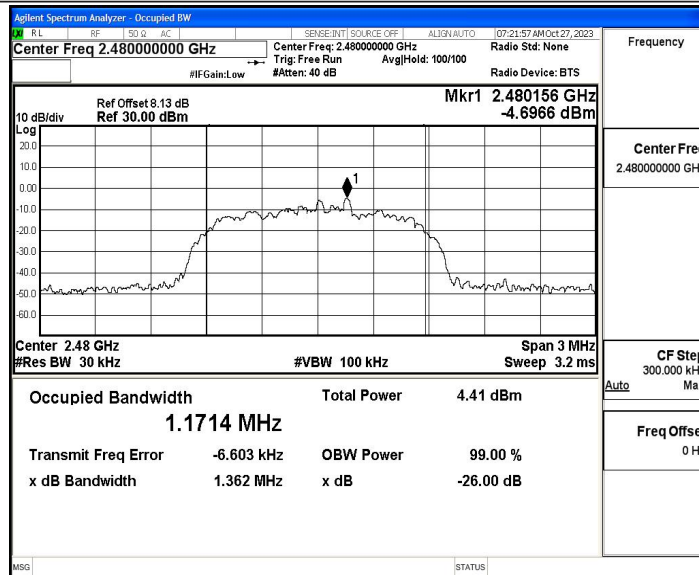
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2DH5_Ant1_2480



3DH5_Ant1_2402

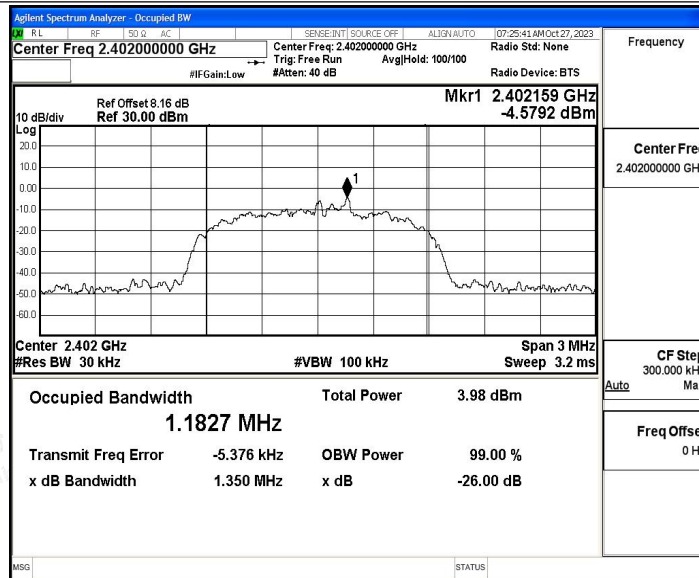


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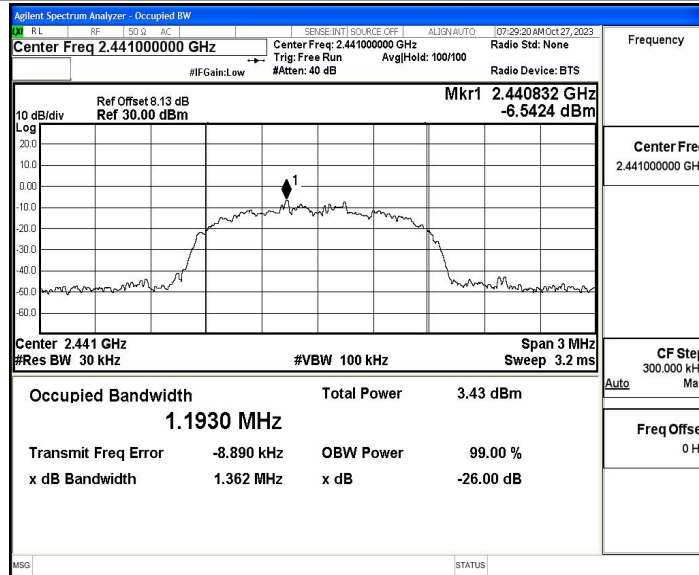
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3DH5_Ant1_2441



3DH5_Ant1_2480

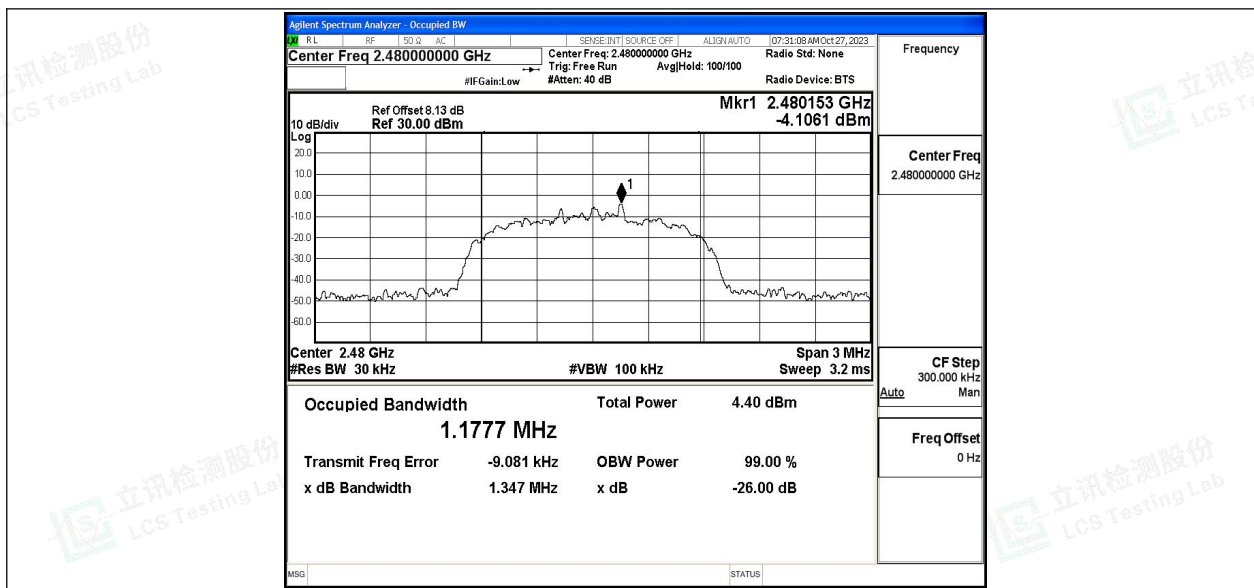


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A.3 Maximum peak conducted output power

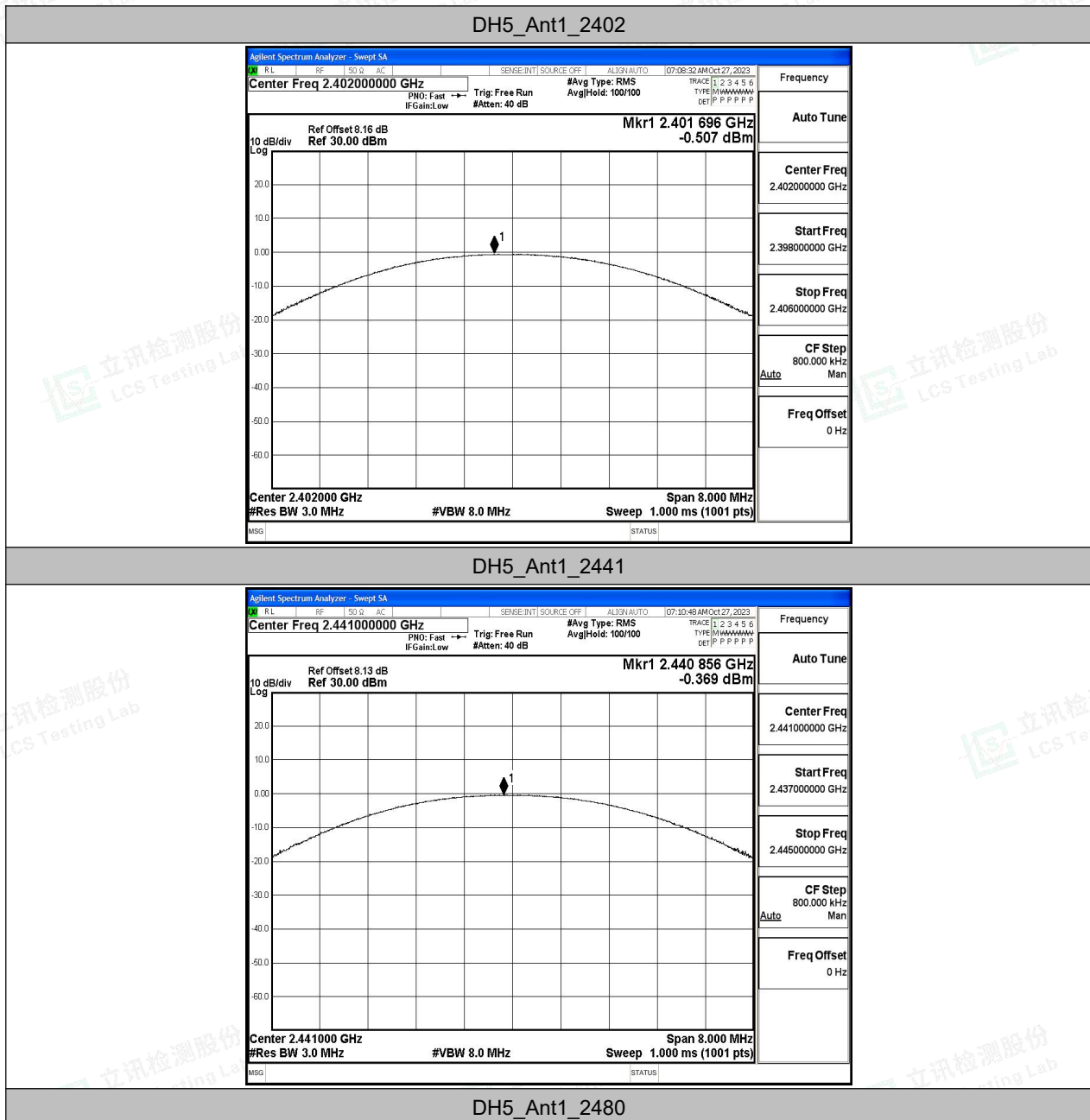
Test Result Peak

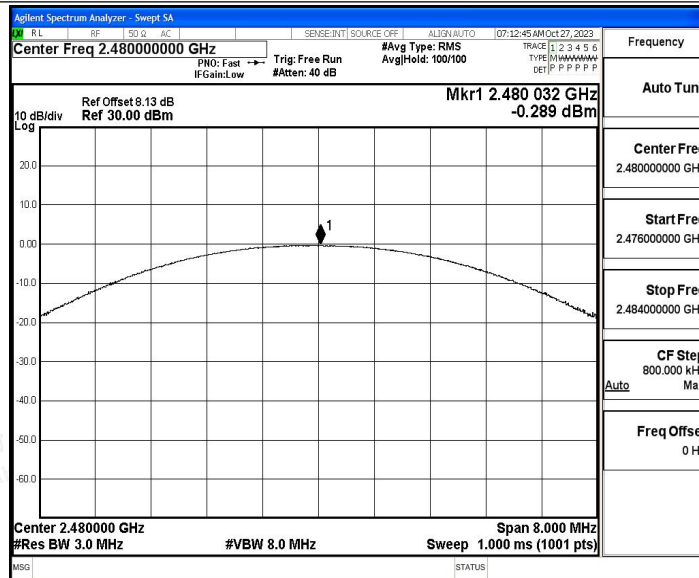
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.51	≤20.97	PASS
		2441	-0.37	≤20.97	PASS
		2480	-0.29	≤20.97	PASS
2DH5	Ant1	2402	-0.95	≤20.97	PASS
		2441	-0.75	≤20.97	PASS
		2480	-0.66	≤20.97	PASS
3DH5	Ant1	2402	-0.88	≤20.97	PASS
		2441	-0.72	≤20.97	PASS
		2480	-0.61	≤20.97	PASS



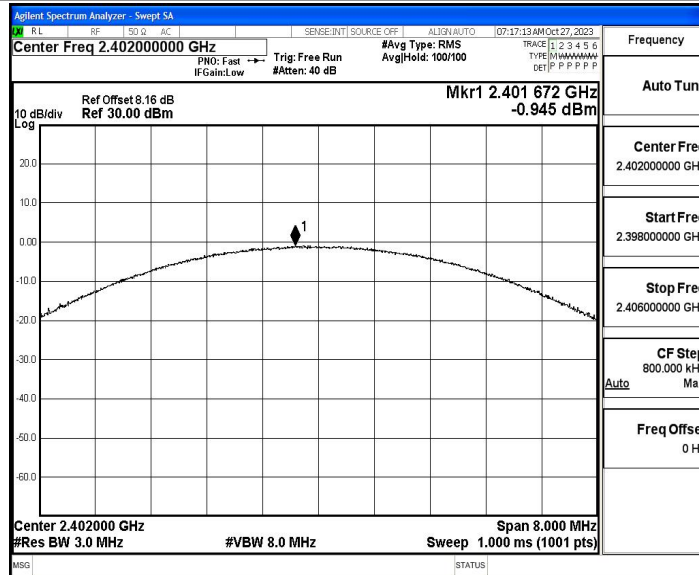


Test Graphs



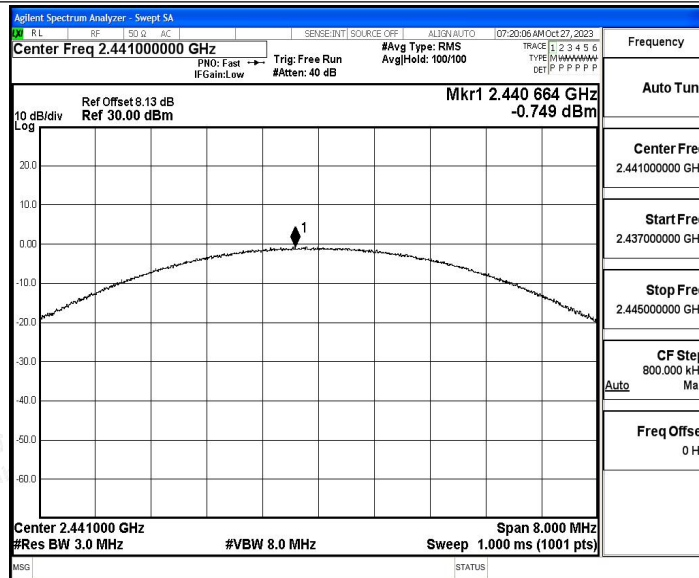


2DH5_Ant1_2402

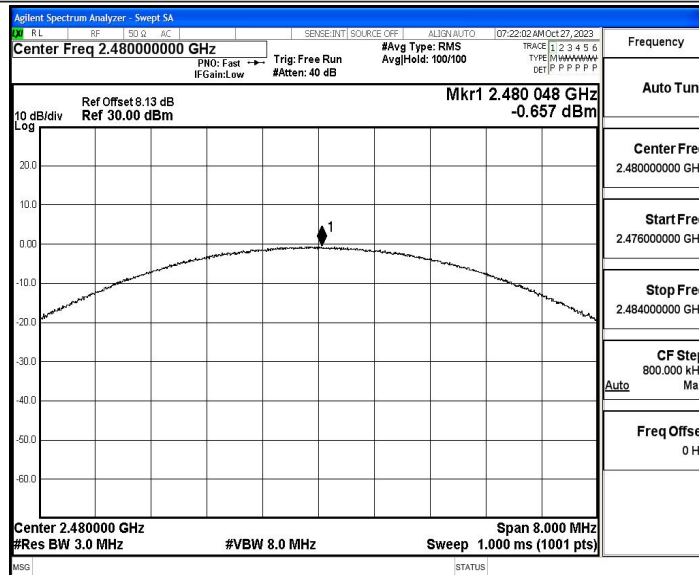


2DH5_Ant1_2441





2DH5_Ant1_2480



3DH5_Ant1_2402

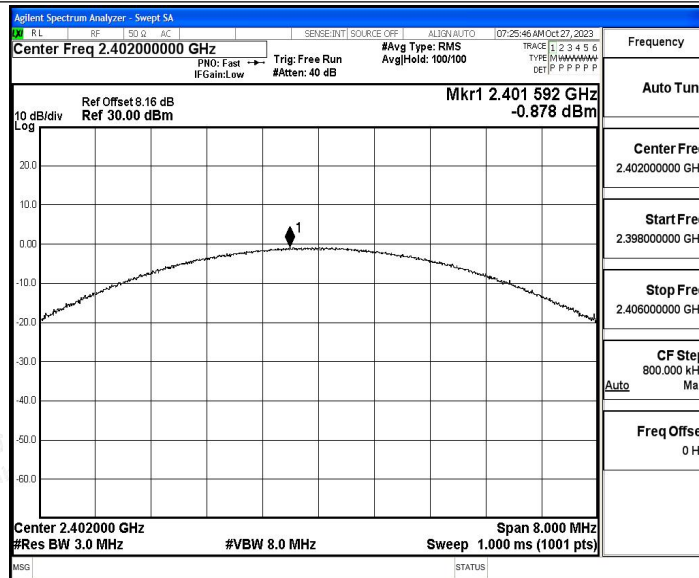


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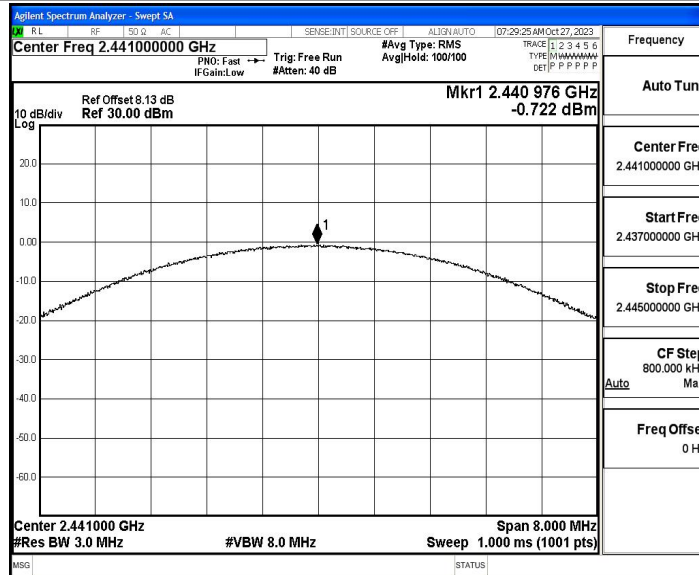
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3DH5_Ant1_2441



3DH5_Ant1_2480

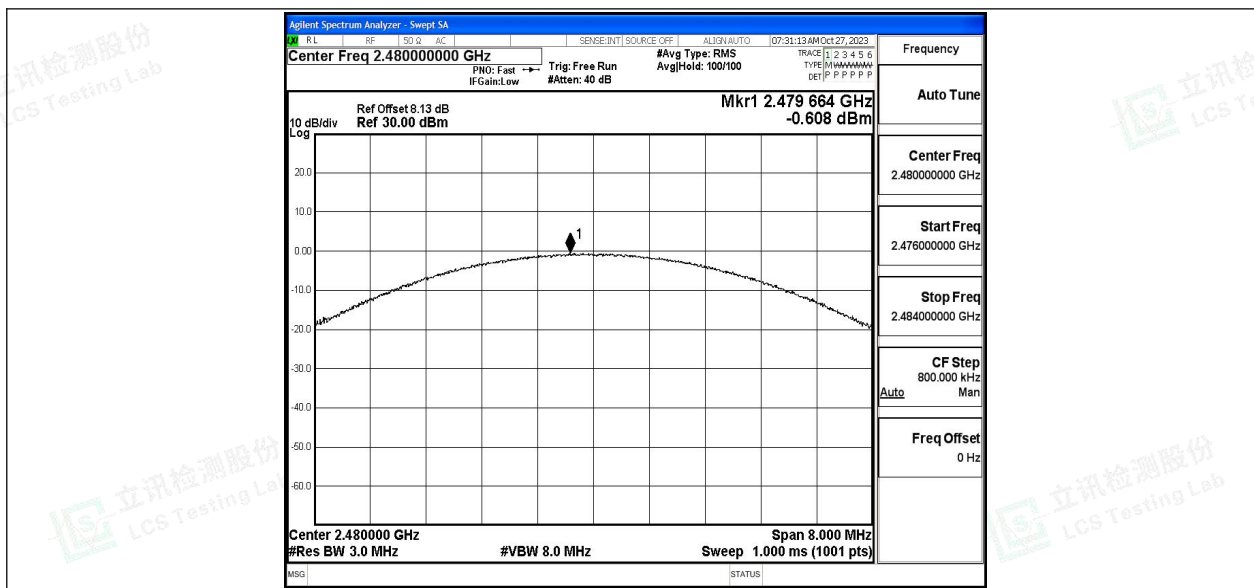


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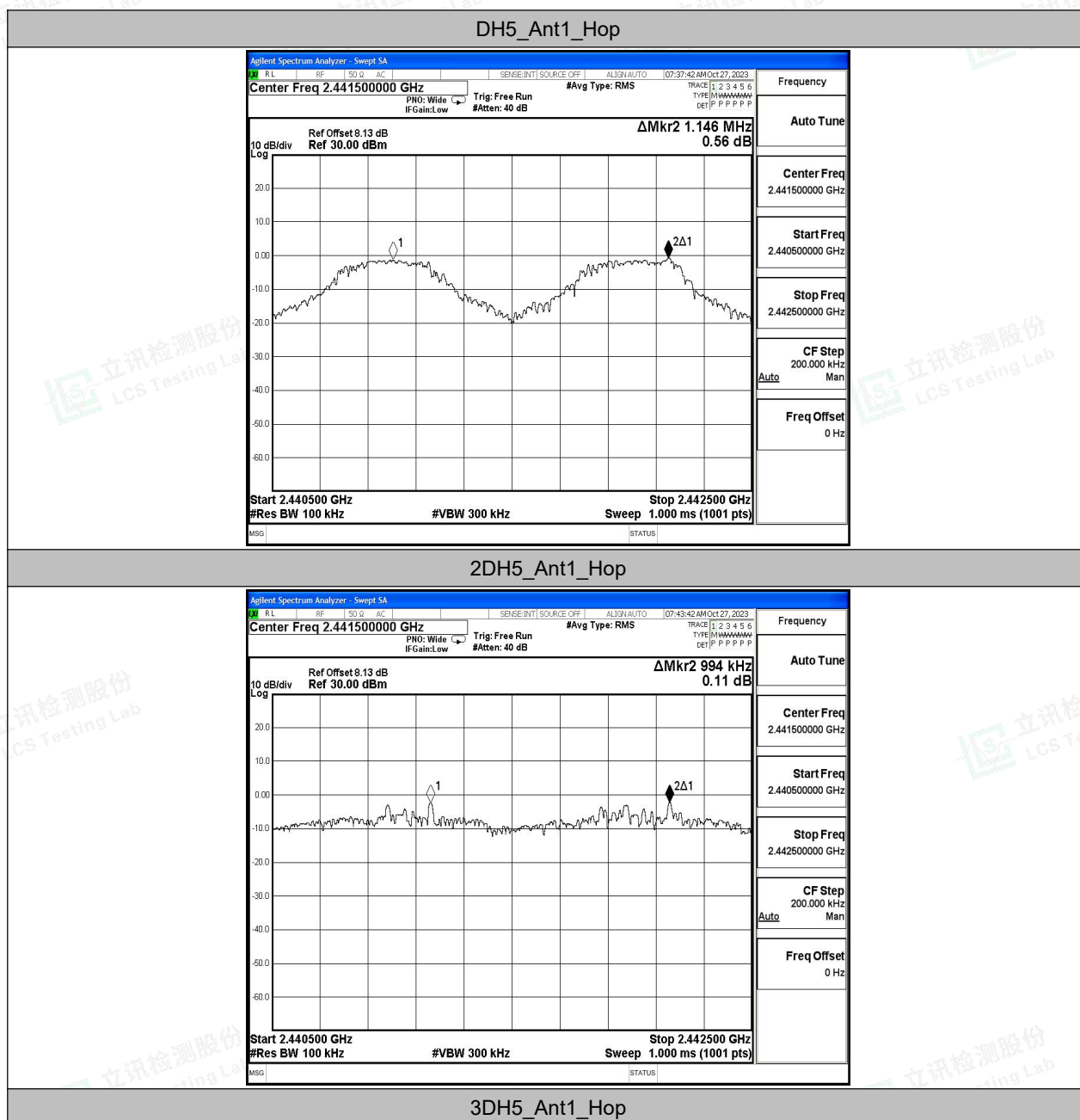
A.4 Carrier frequency separation

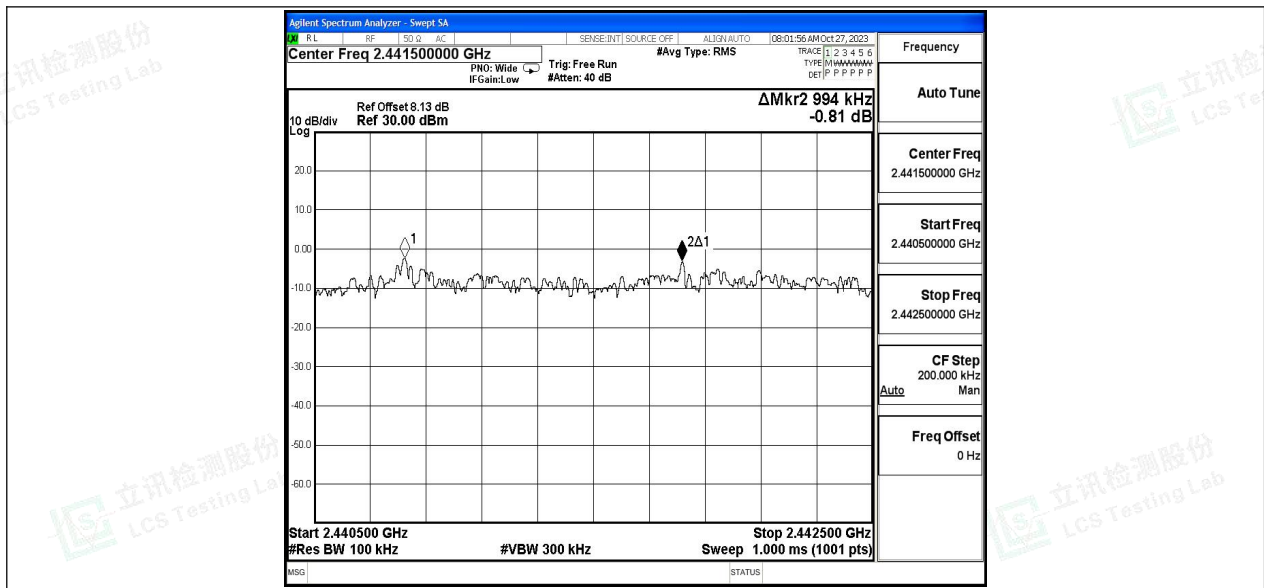
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.146	≥ 0.682	PASS
2DH5	Ant1	Hop	0.994	≥ 0.886	PASS
3DH5	Ant1	Hop	0.994	≥ 0.872	PASS



Test Graphs





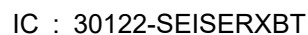


A.5 Time of occupancy

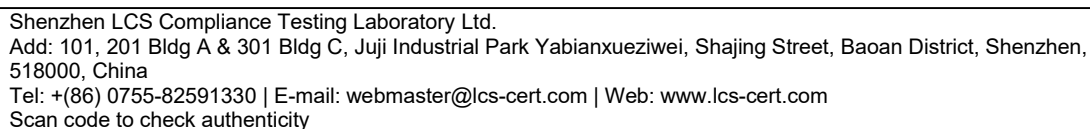
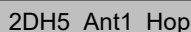
Test Result

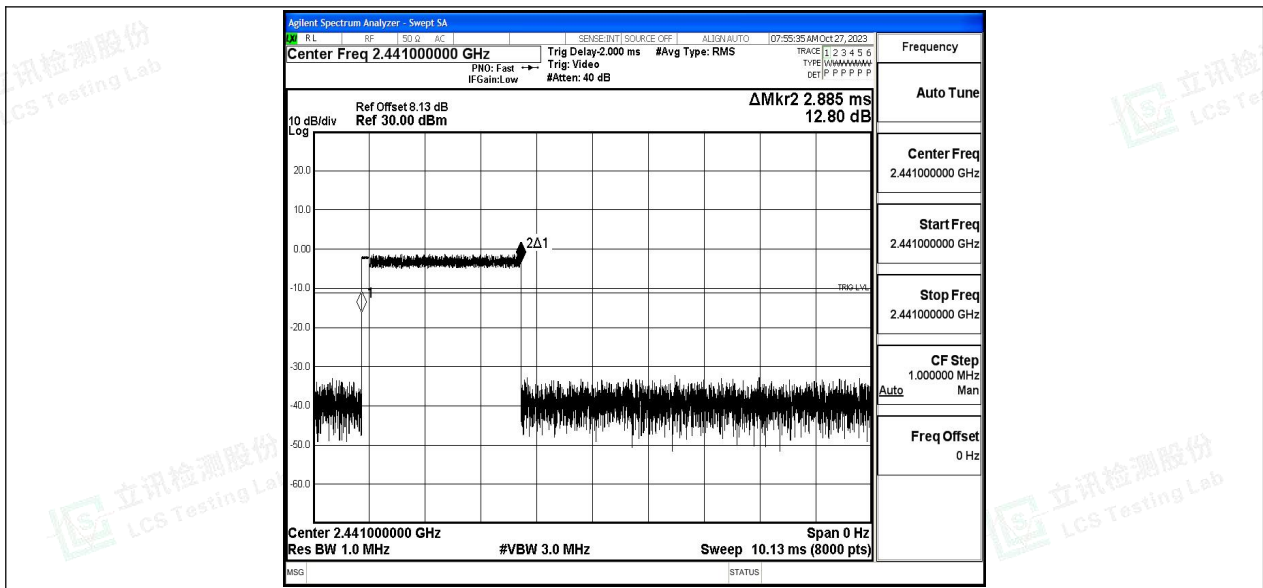
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS





DH5 Ant1 Hop







A.6 Number of hopping channels

Test Result

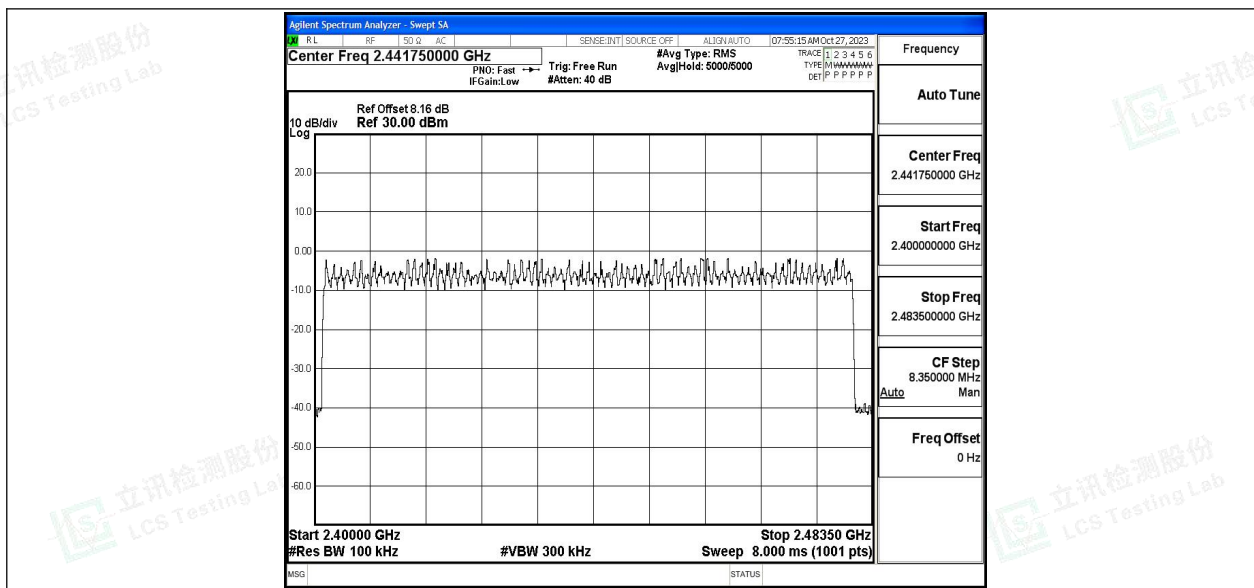
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.7 Band edge measurements

Test Result

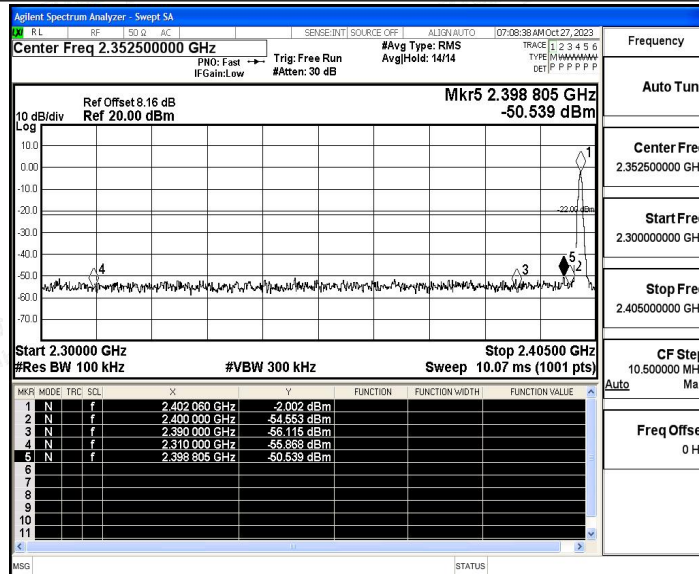
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.00	-50.54	≤ -22	PASS
		High	2480	-1.36	-50.8	≤ -21.36	PASS
		Low	Hop_2402	-1.63	-49.83	≤ -21.63	PASS
		High	Hop_2480	-0.73	-49.53	≤ -20.73	PASS
2DH5	Ant1	Low	2402	-4.10	-50.84	≤ -24.1	PASS
		High	2480	-5.93	-49.99	≤ -25.93	PASS
		Low	Hop_2402	-6.57	-50.26	≤ -26.57	PASS
		High	Hop_2480	-2.33	-49.55	≤ -22.33	PASS
3DH5	Ant1	Low	2402	-6.31	-49.87	≤ -26.31	PASS
		High	2480	-6.36	-50.34	≤ -26.36	PASS
		Low	Hop_2402	-4.59	-49.59	≤ -24.59	PASS
		High	Hop_2480	-2.27	-48.37	≤ -22.27	PASS



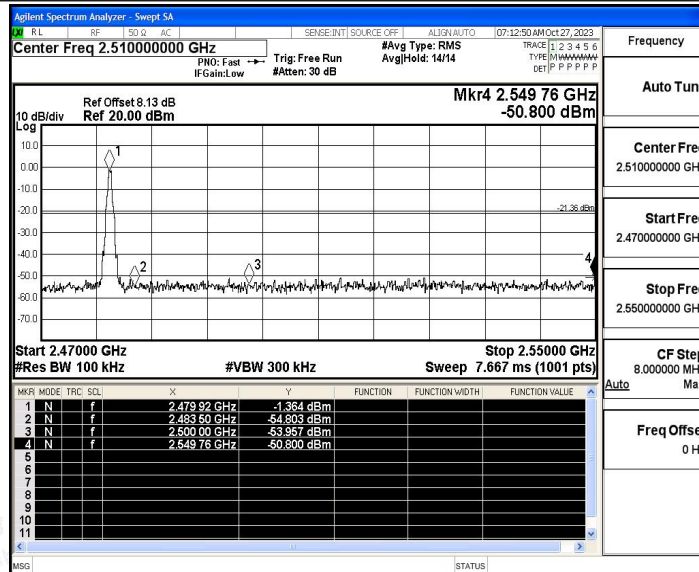


Test Graphs

DH5_Ant1_Low_2402

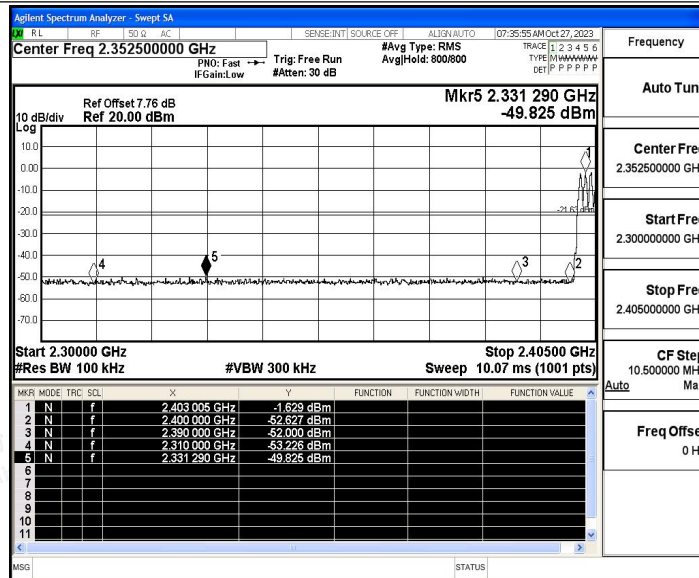


DH5_Ant1_High_2480

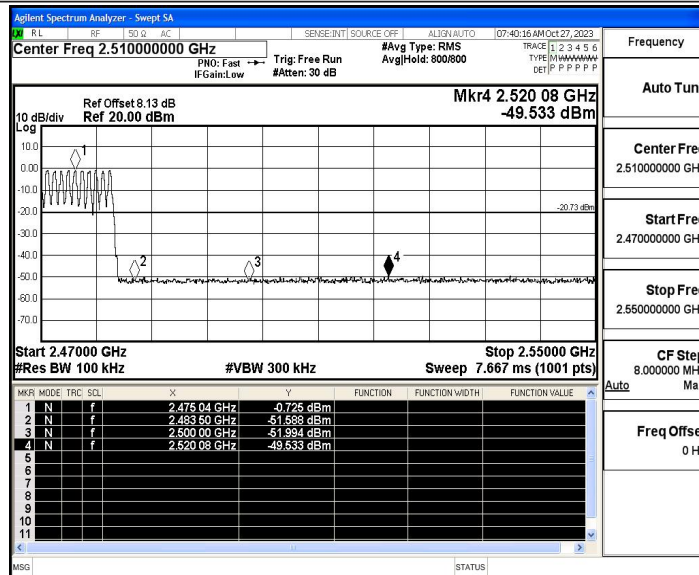


DH5_Ant1_Low_Hop_2402





DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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