

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Earbuds

Test Model: BSTWSTMP99

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao xing hai
Supervised by:	Fengliu Tang

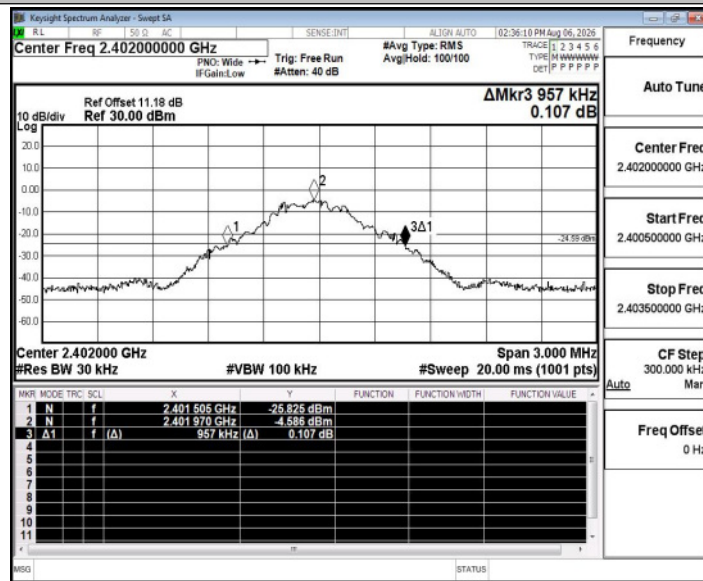
A.1 20dB Emission Bandwidth

Test Result

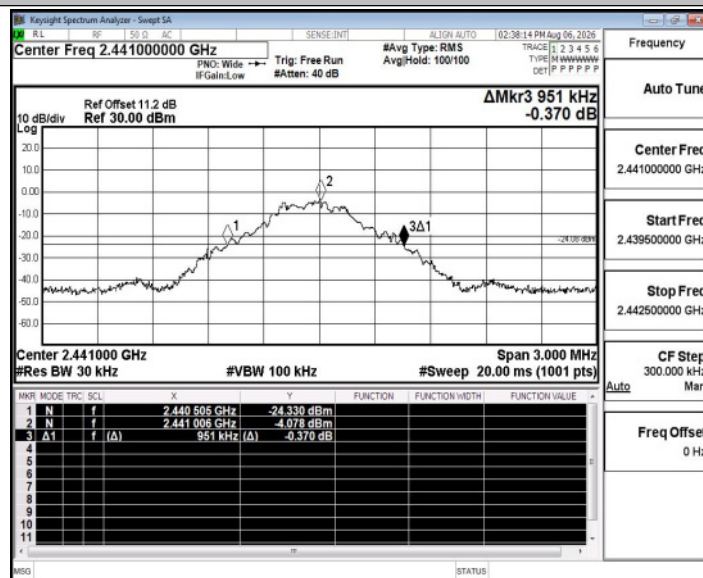
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.505	2402.462	No Limit	PASS
		2441	0.951	2440.505	2441.456	No Limit	PASS
		2480	0.951	2479.505	2480.456	No Limit	PASS
2DH5	Ant1	2402	1.281	2401.340	2402.621	No Limit	PASS
		2441	1.275	2440.343	2441.618	No Limit	PASS
		2480	1.281	2479.340	2480.621	No Limit	PASS
3DH5	Ant1	2402	1.278	2401.334	2402.612	No Limit	PASS
		2441	1.272	2440.334	2441.606	No Limit	PASS
		2480	1.284	2479.328	2480.612	No Limit	PASS

Test Graphs

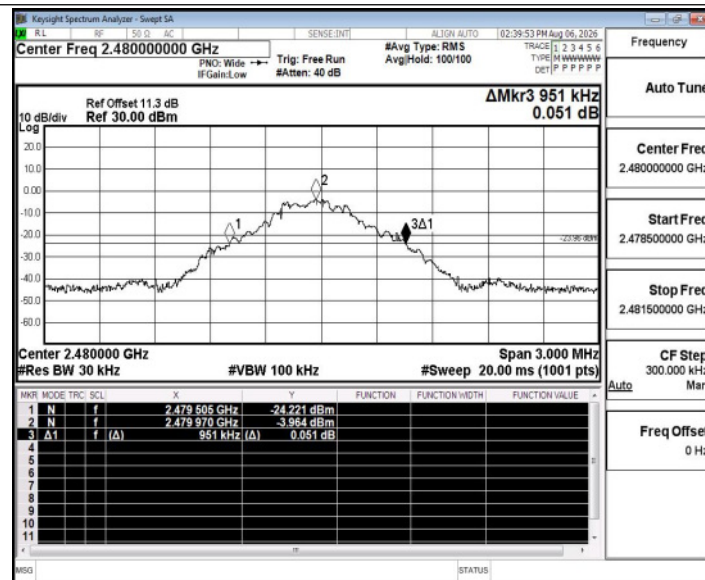
DH5_Ant1_2402



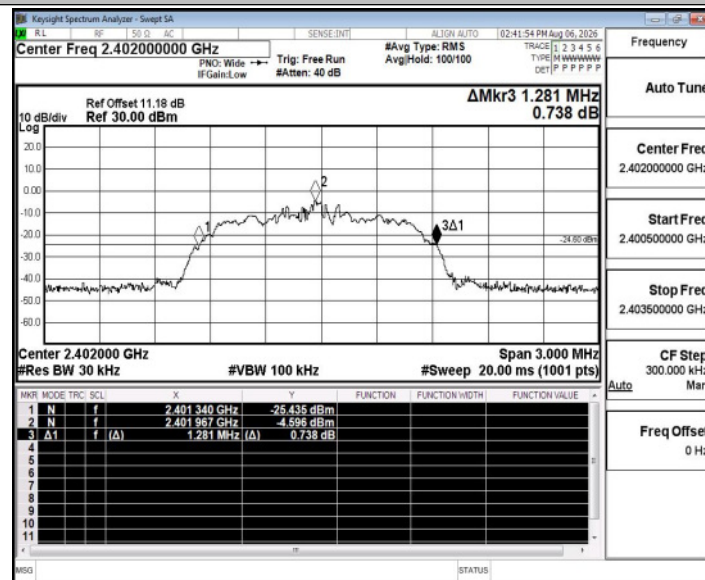
DH5_Ant1_2441



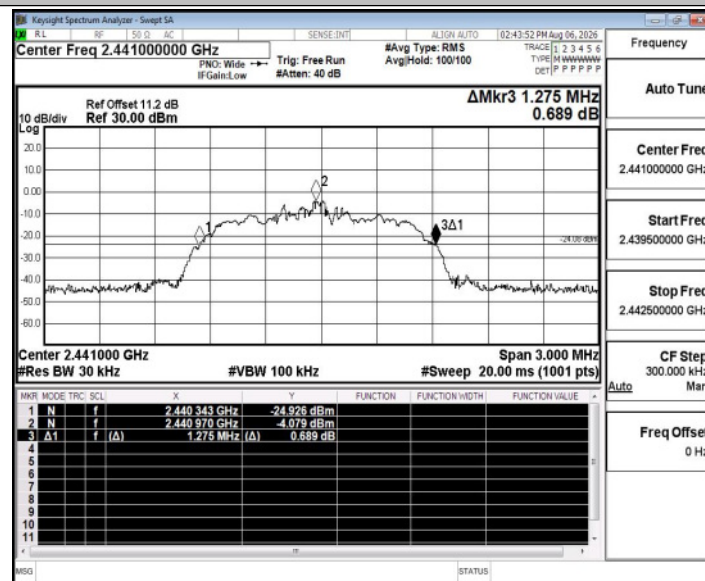
DH5_Ant1_2480



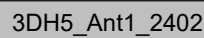
2DH5_Ant1_2402

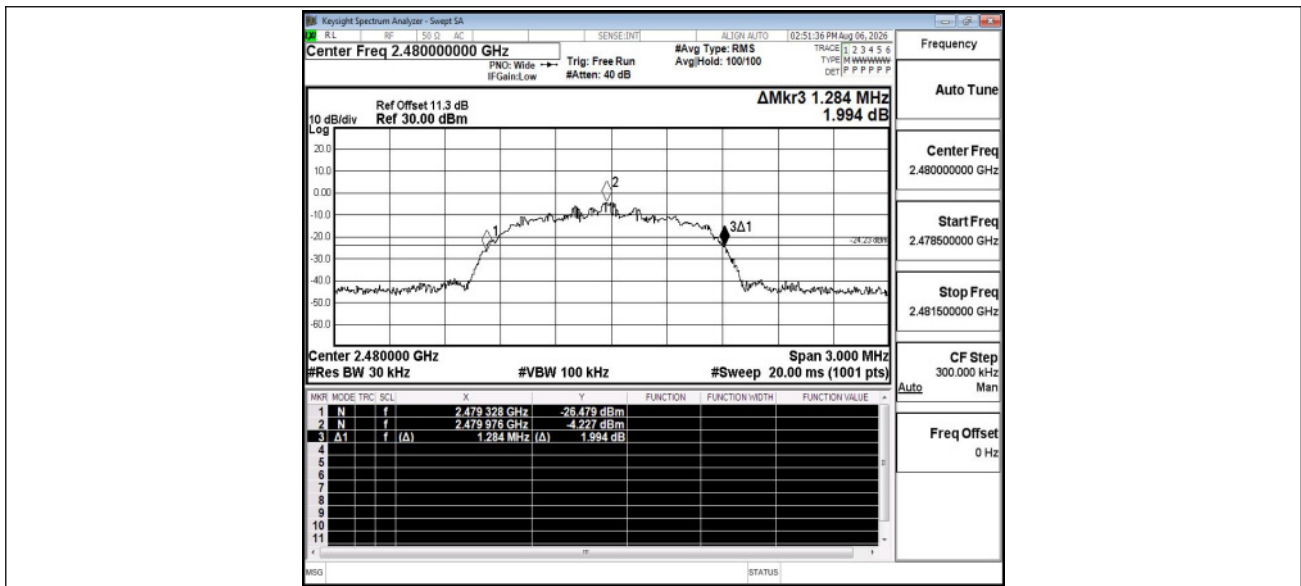


2DH5_Ant1_2441



2DH5_Ant1_2480





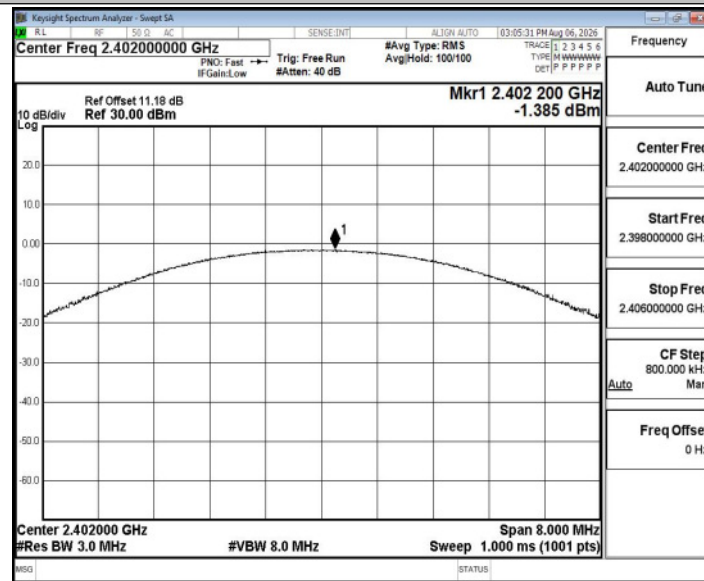
A.2 Maximum Peak conducted output power

Test Result Peak

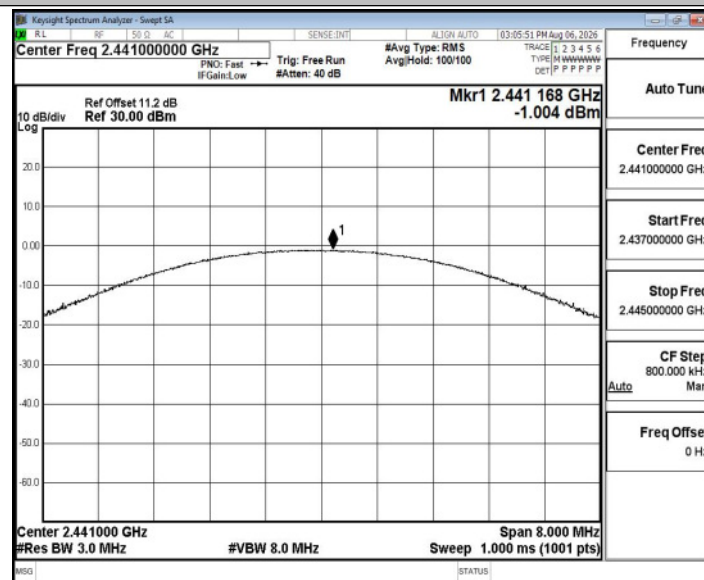
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.39	≤30	PASS
		2441	-1.00	≤30	PASS
		2480	-0.80	≤30	PASS
2DH5	Ant1	2402	-0.97	≤30	PASS
		2441	-0.39	≤30	PASS
		2480	-0.38	≤30	PASS
3DH5	Ant1	2402	-0.46	≤20.97	PASS
		2441	0.19	≤20.97	PASS
		2480	0.33	≤20.97	PASS

Test Graphs

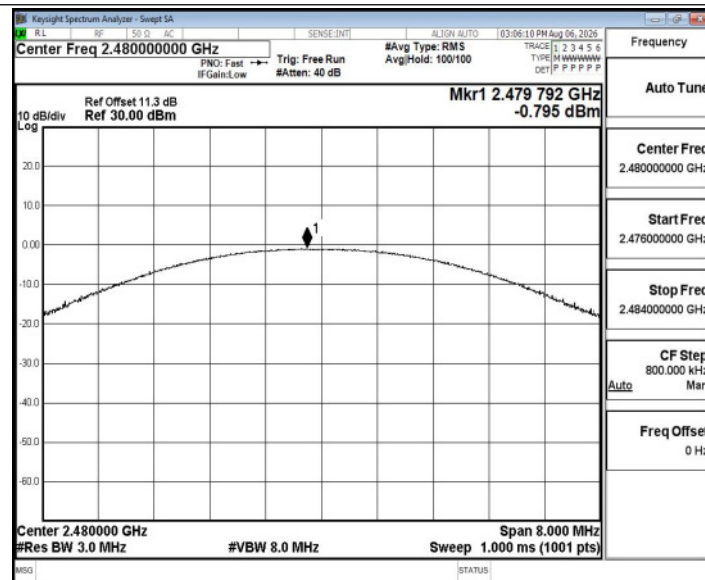
DH5_Ant1_2402



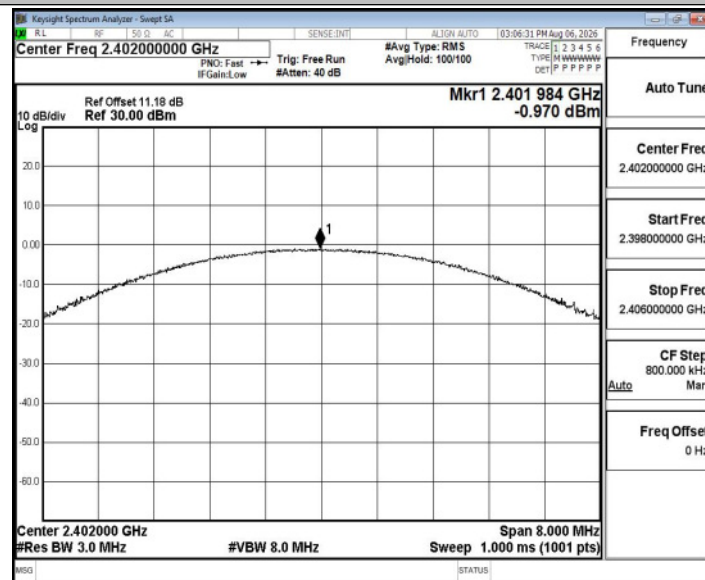
DH5_Ant1_2441



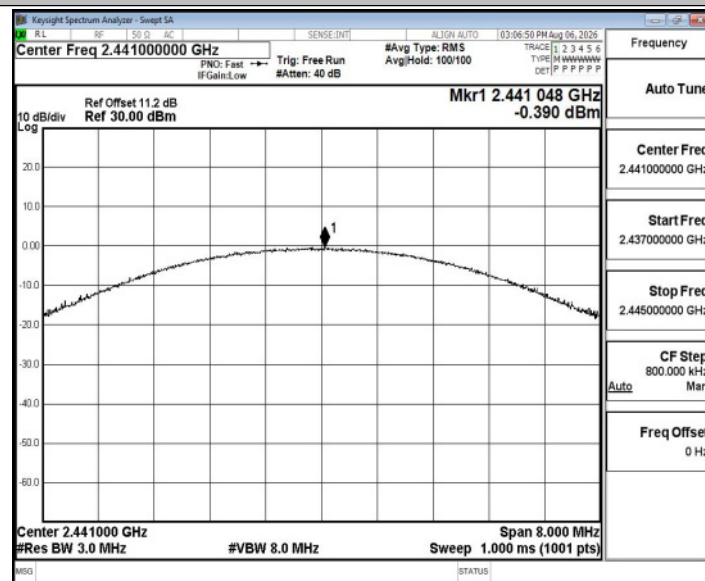
DH5_Ant1_2480



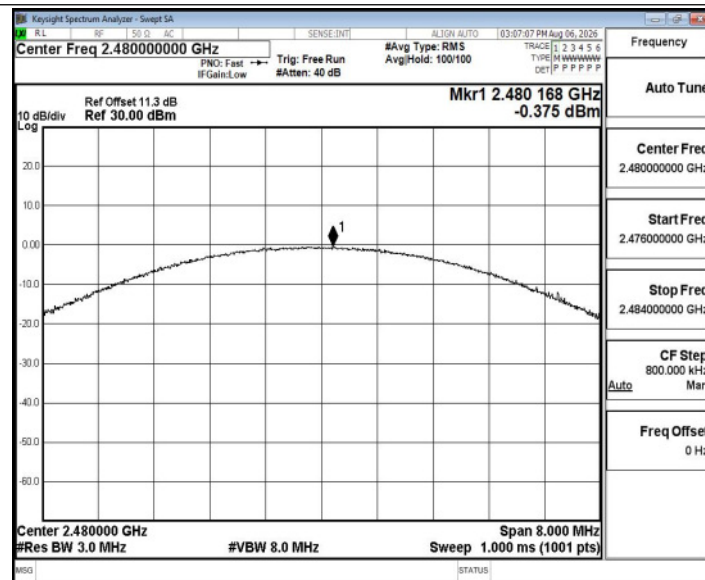
2DH5_Ant1_2402



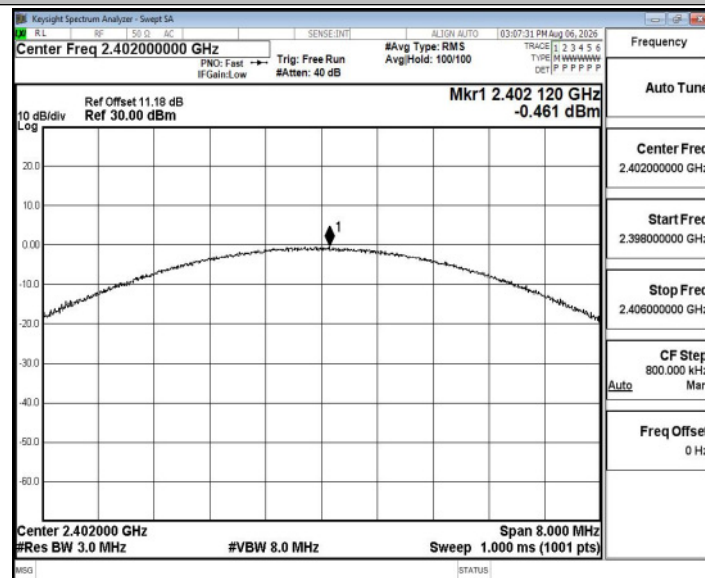
2DH5_Ant1_2441



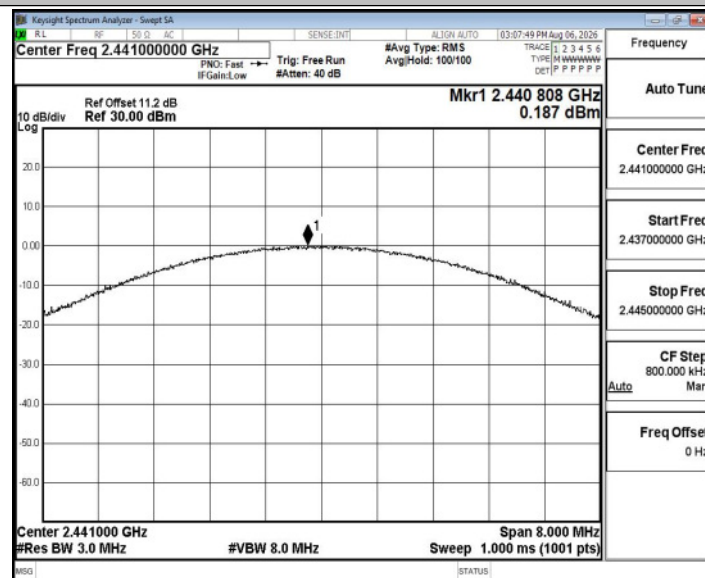
2DH5_Ant1_2480



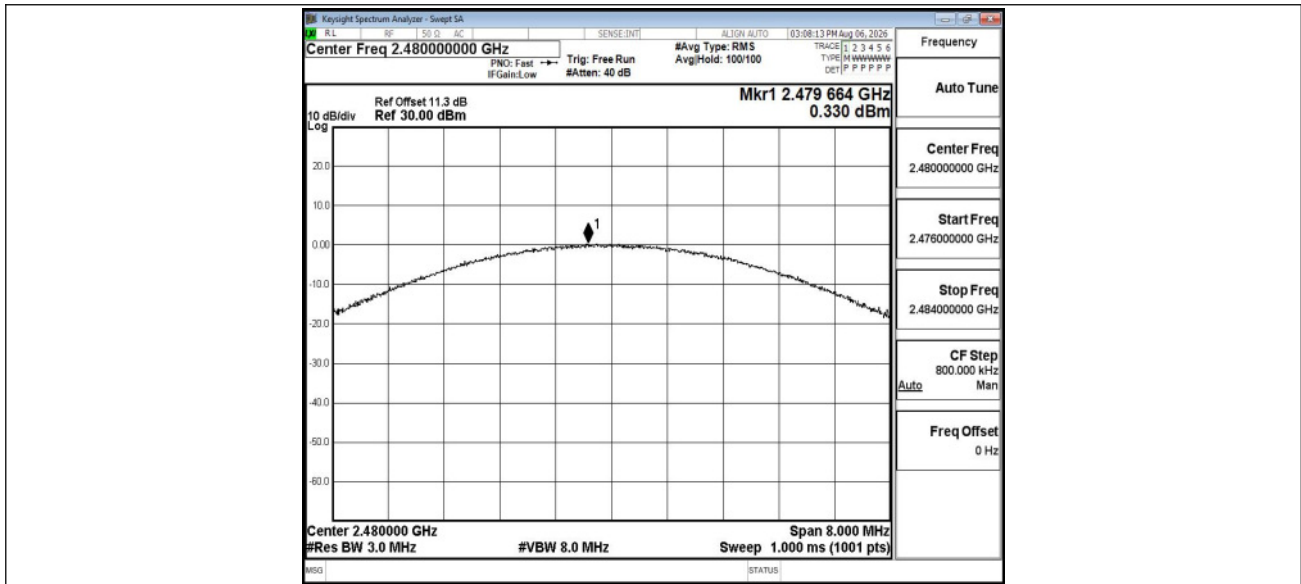
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



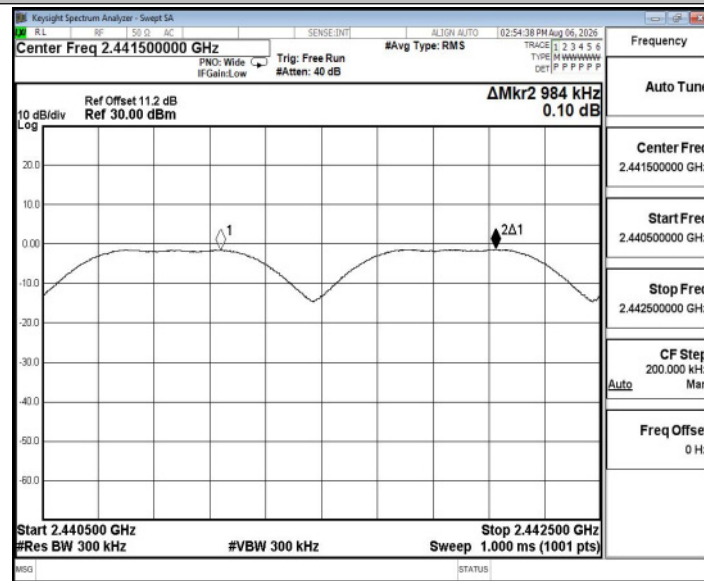
A.3 Carrier frequency separation

Test Result

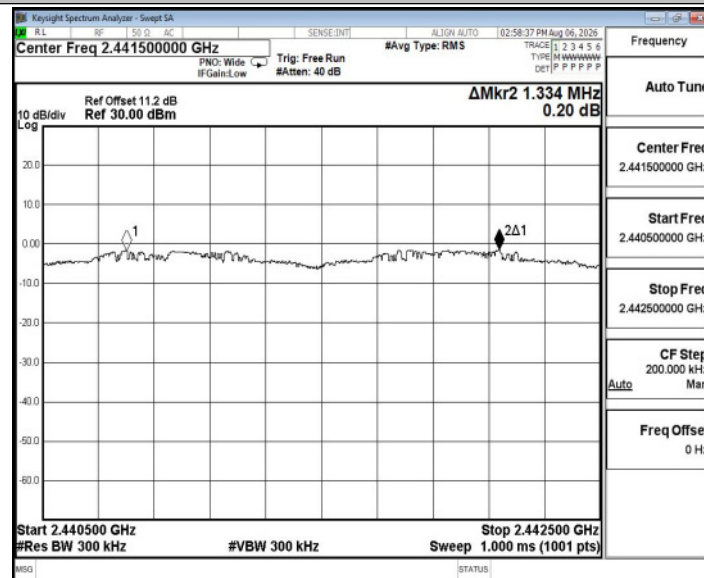
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.984	≥0.957	PASS
2DH5	Ant1	Hop	1.334	≥1.281	PASS
3DH5	Ant1	Hop	1.028	≥0.856	PASS

Test Graphs

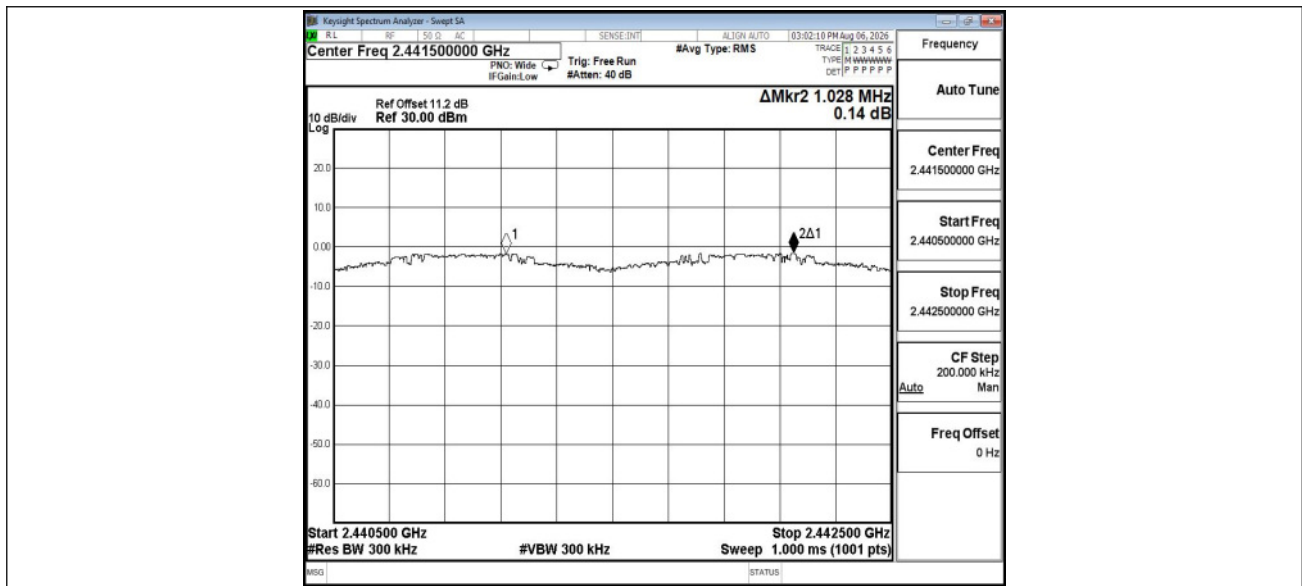
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

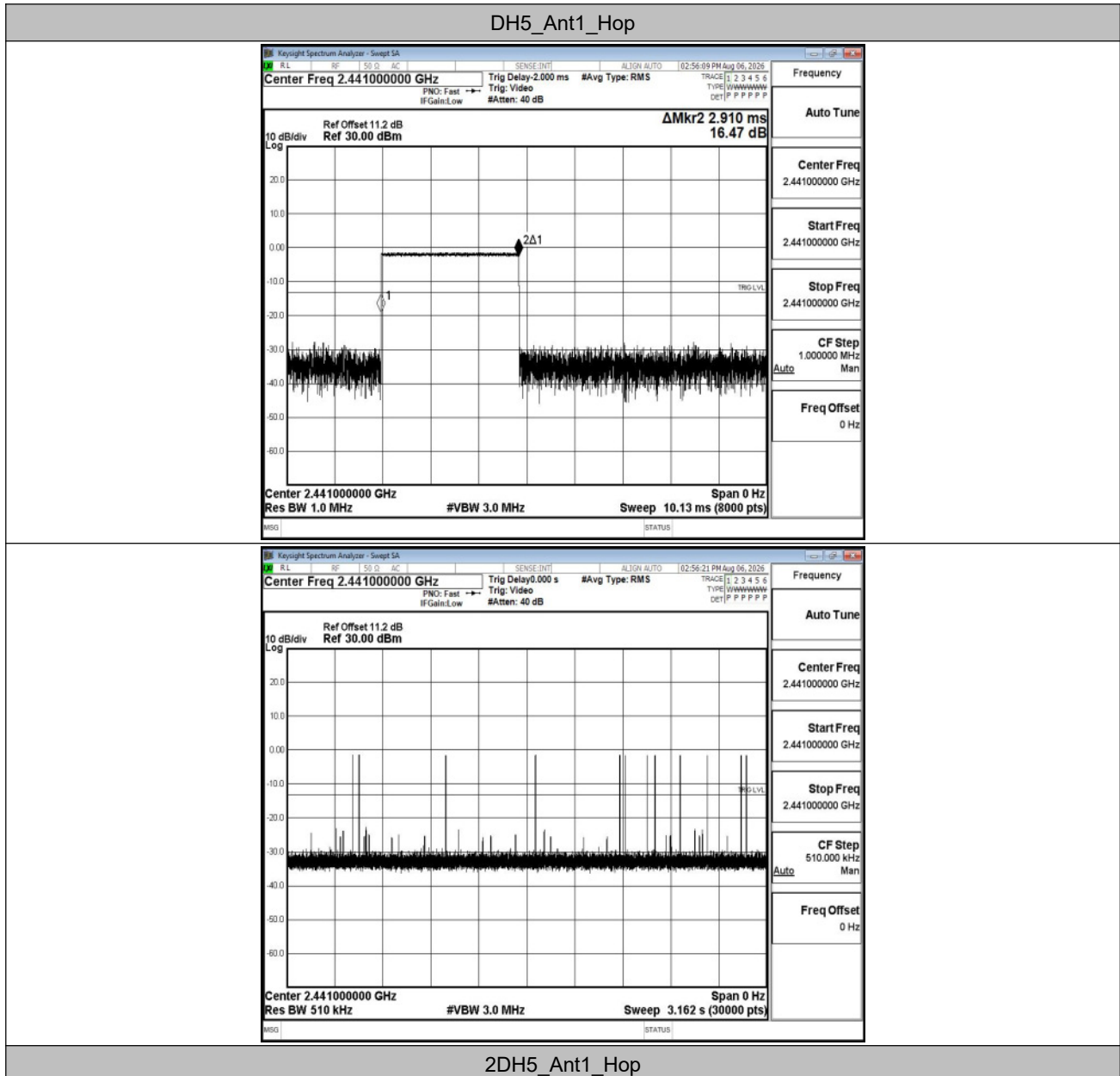


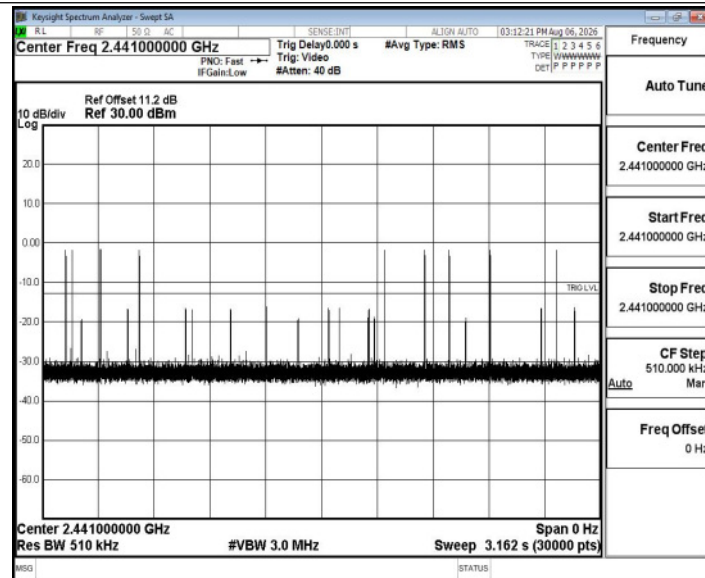
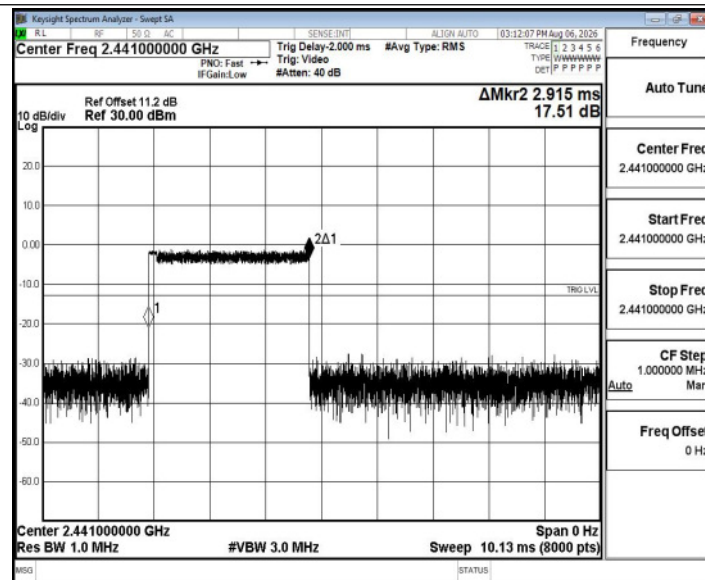
A.4 Time of occupancy

Test Result

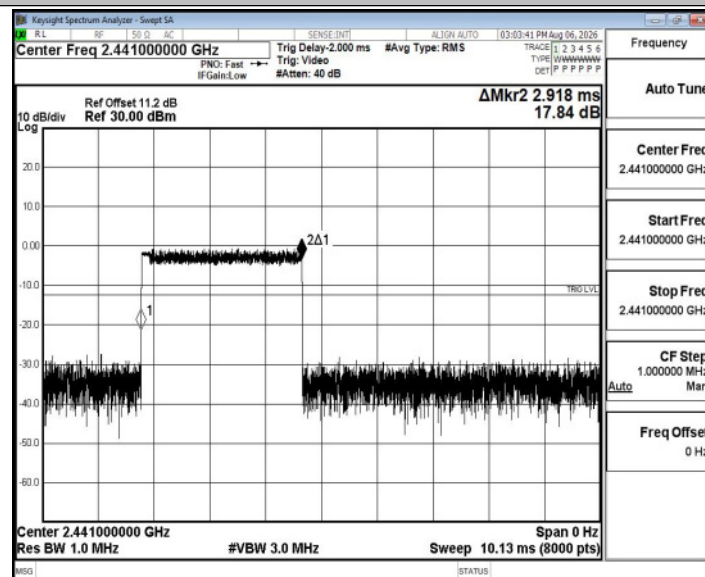
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.910	130	0.378	≤0.4	PASS
2DH5	Ant1	Hop	2.915	100	0.292	≤0.4	PASS
3DH5	Ant1	Hop	2.918	90	0.263	≤0.4	PASS

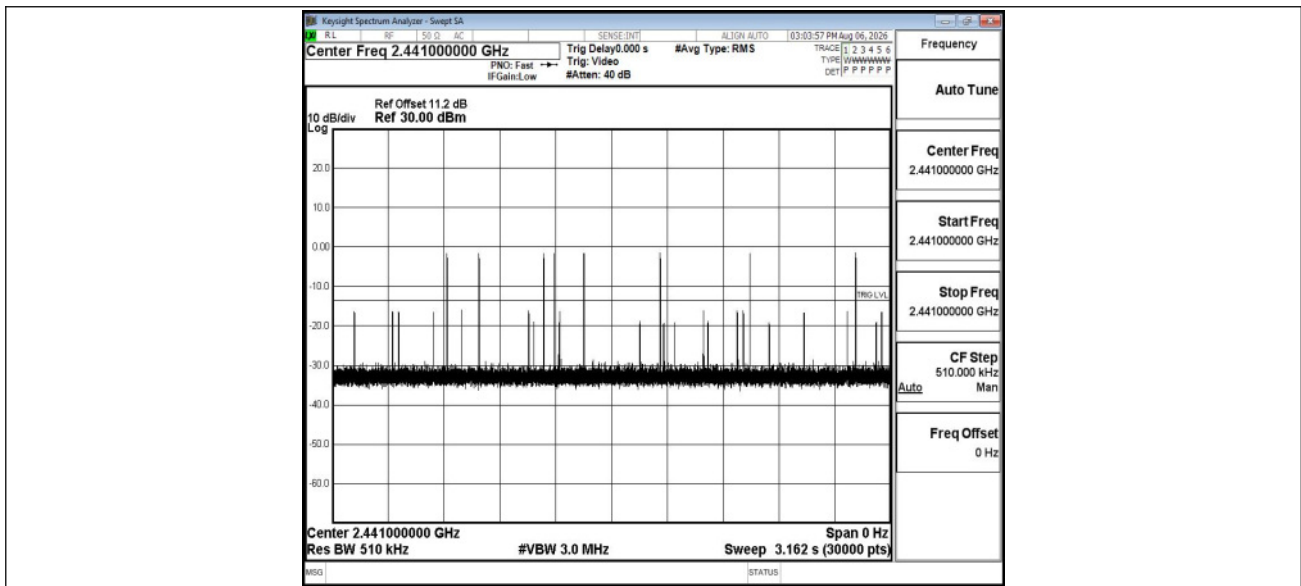
Test Graphs





3DH5_Ant1_Hop





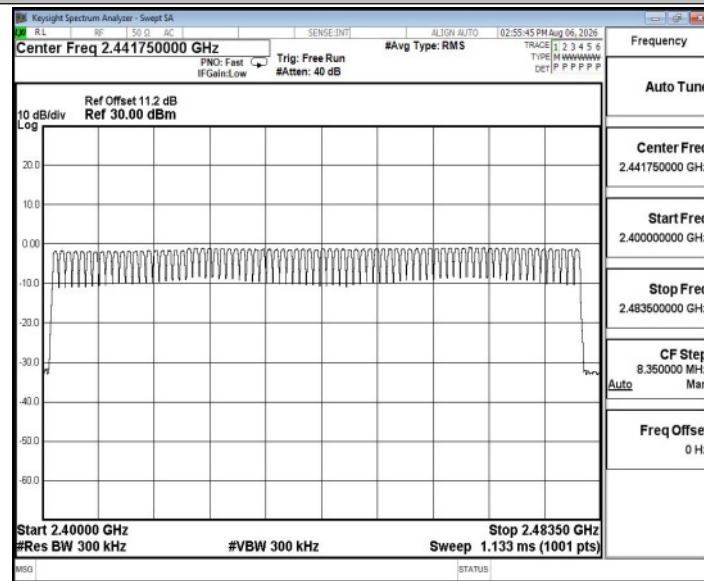
A.5 Number of hopping channels

Test Result

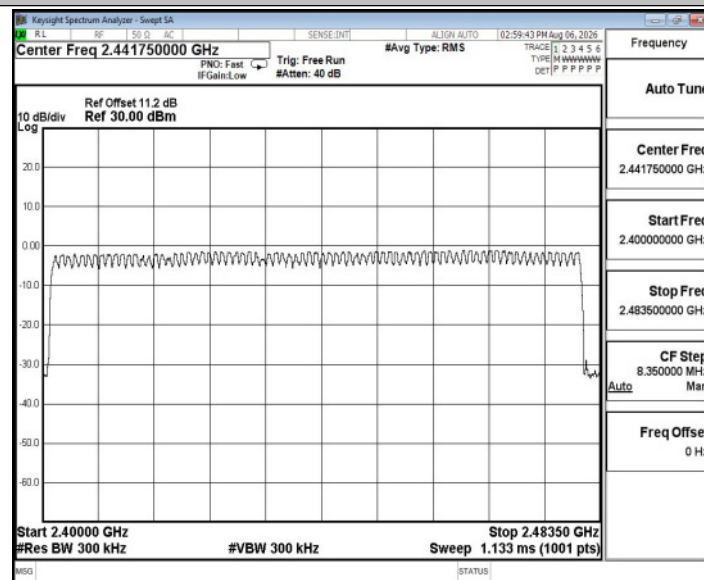
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

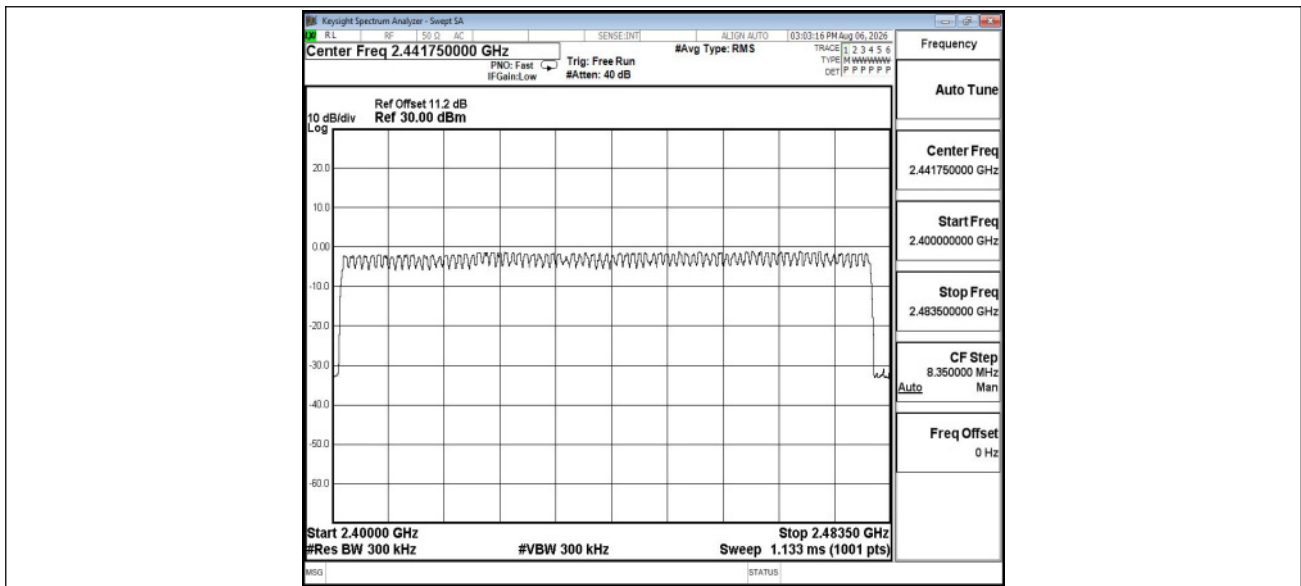
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



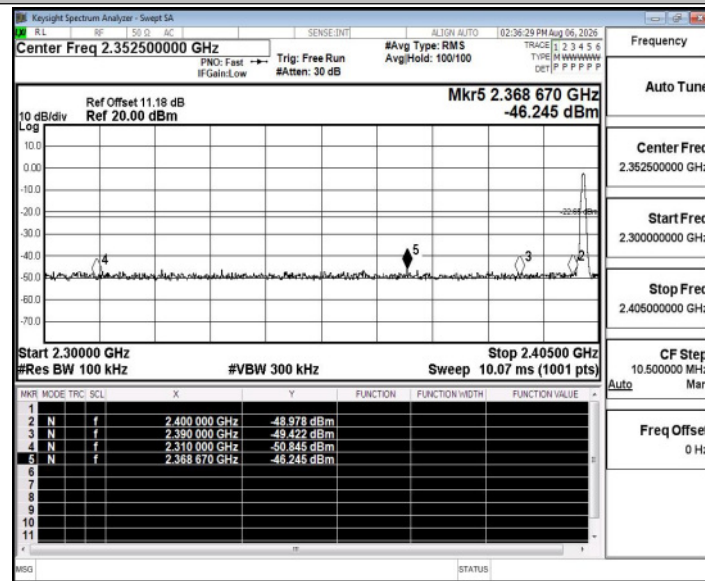
A.6 Band edge measurements

Test Result

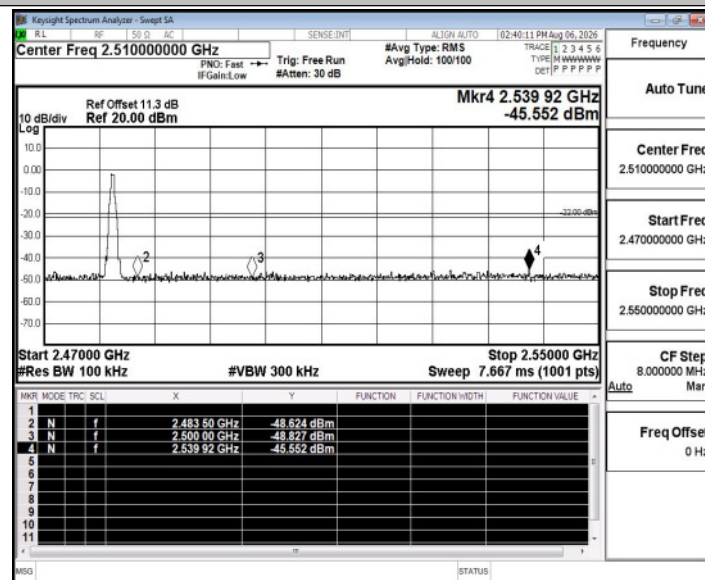
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.65	-46.25	≤ -22.65	PASS
		High	2480	-2.00	-45.55	≤ -22	PASS
		Low	Hop_2402	-2.84	-46.26	≤ -22.84	PASS
		High	Hop_2480	-2.20	-44.59	≤ -22.2	PASS
2DH5	Ant1	Low	2402	-2.57	-46.02	≤ -22.57	PASS
		High	2480	-1.86	-44.94	≤ -21.86	PASS
		Low	Hop_2402	-7.61	-46.04	≤ -27.61	PASS
		High	Hop_2480	-6.61	-45.93	≤ -26.61	PASS
3DH5	Ant1	Low	2402	-2.76	-46.41	≤ -22.76	PASS
		High	2480	-1.88	-46.02	≤ -21.88	PASS
		Low	Hop_2402	-2.68	-46.33	≤ -22.68	PASS
		High	Hop_2480	-5.01	-45.53	≤ -25.01	PASS

Test Graphs

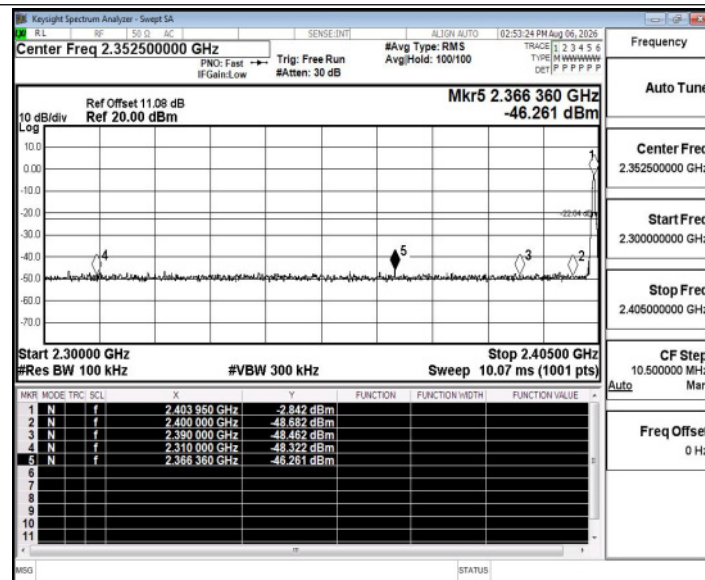
DH5_Ant1_Low_2402



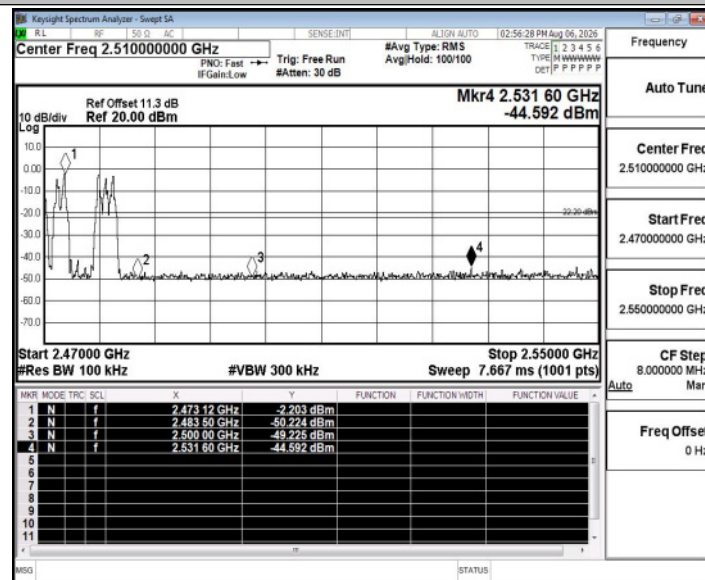
DH5_Ant1_High_2480



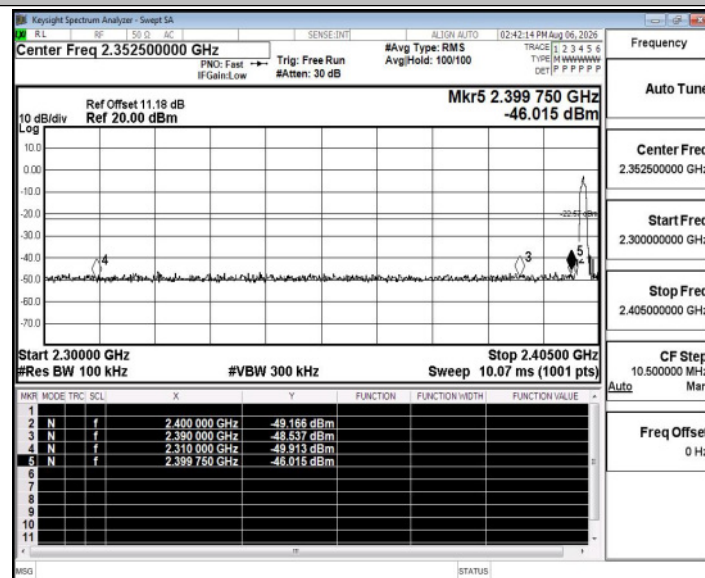
DH5_Ant1_Low_Hop_2402



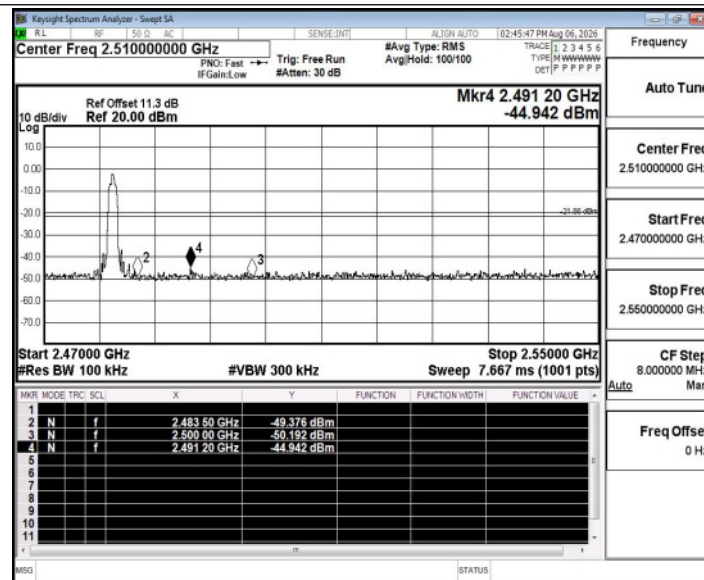
DH5_Ant1_High_Hop_2480



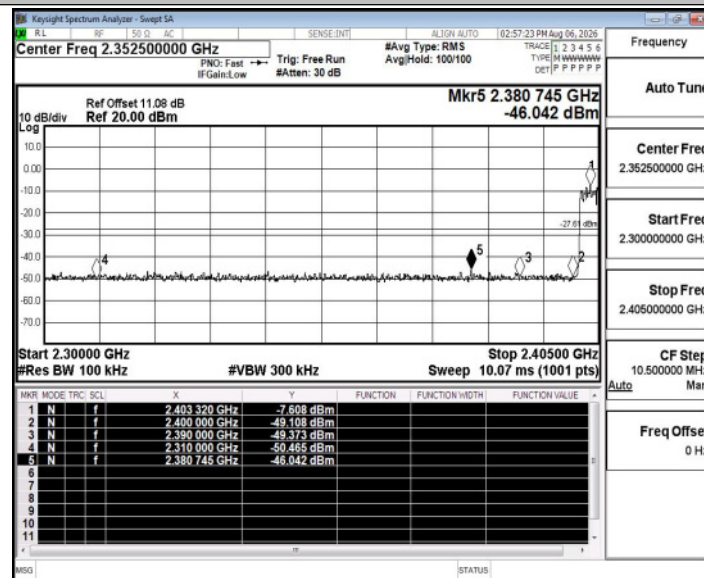
2DH5_Ant1_Low_2402



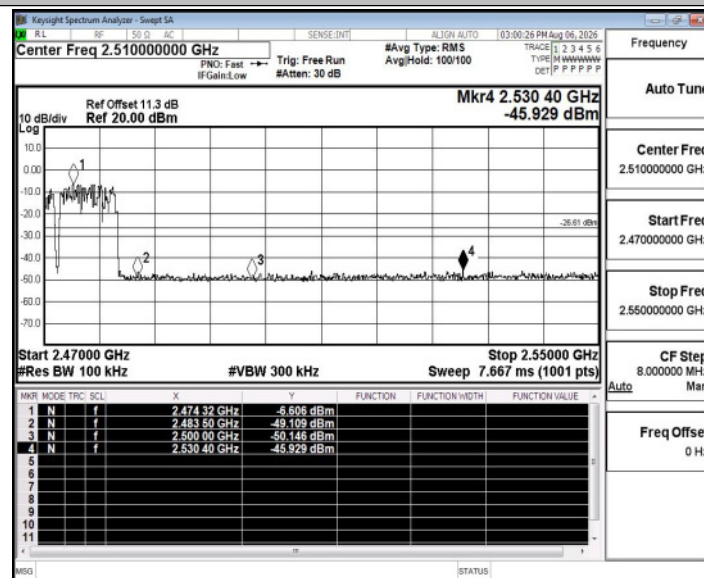
2DH5_Ant1_High_2480



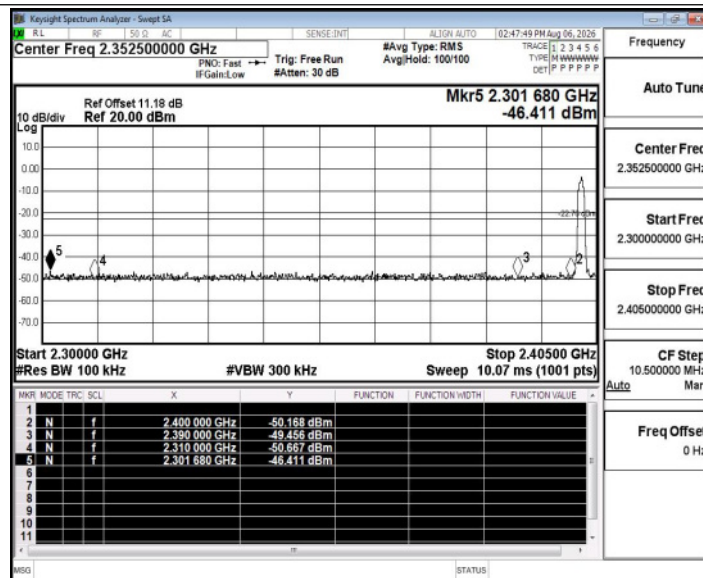
2DH5_Ant1_Low_Hop_2402



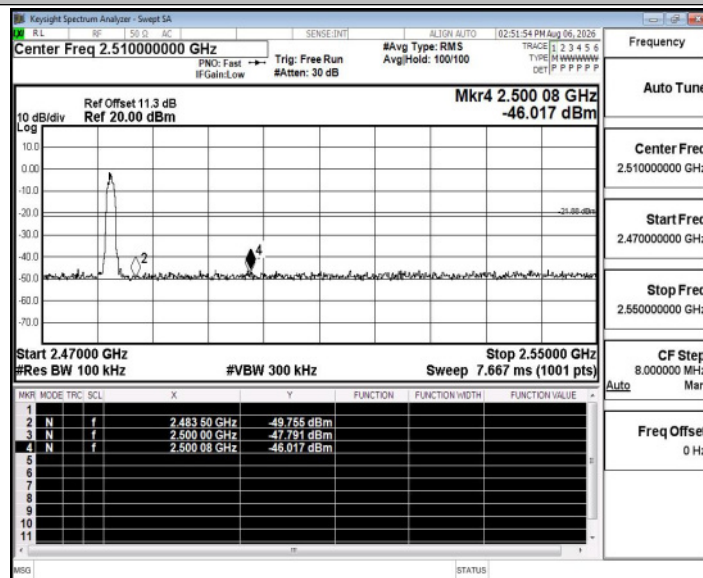
2DH5_Ant1_High_Hop_2480



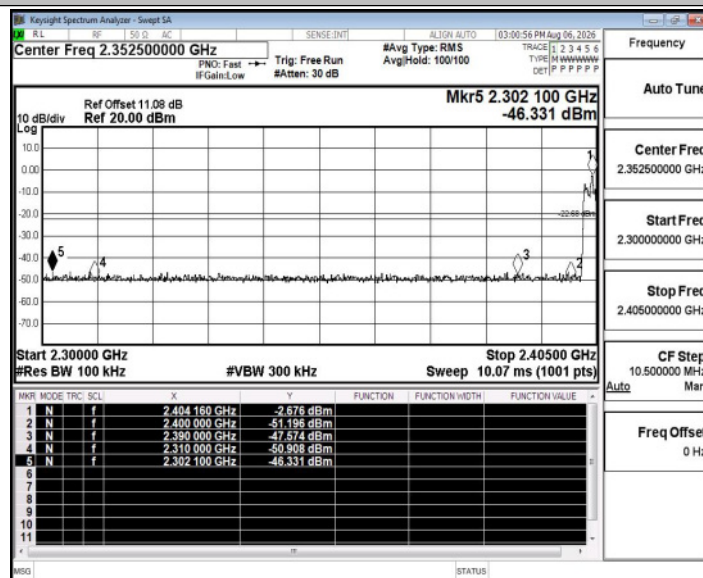
3DH5_Ant1_Low_2402



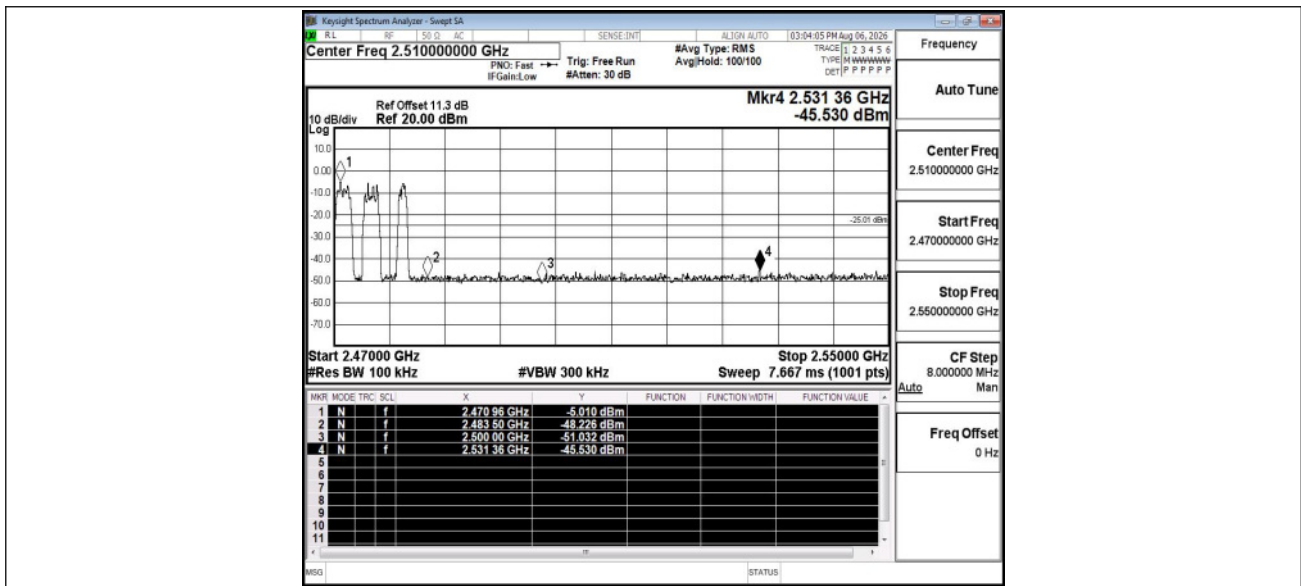
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



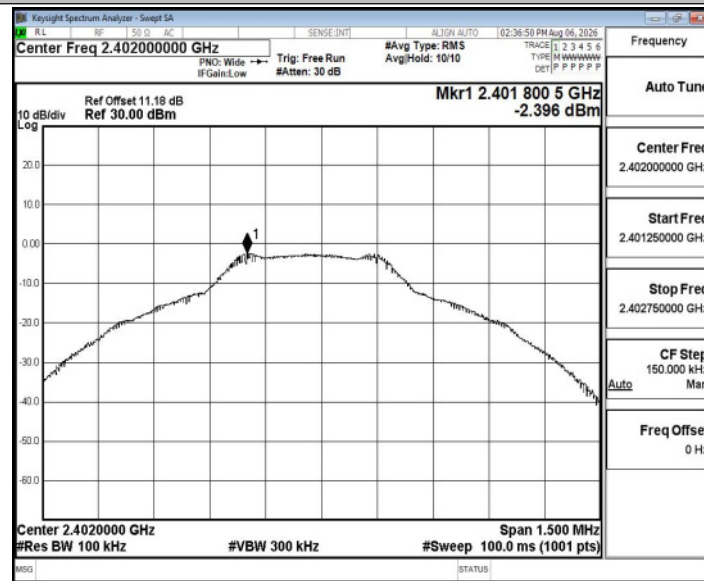
A.7 Conducted Spurious Emission

Test Result

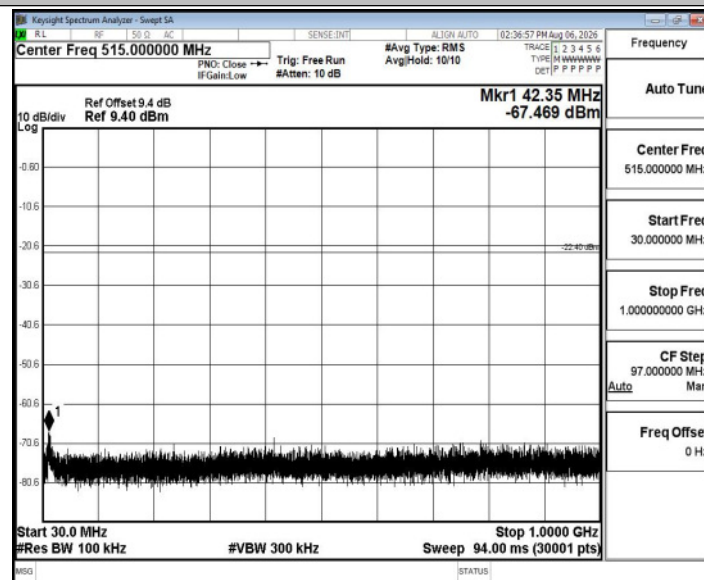
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-67.47	≤-22.4	PASS
			1000~26500	-2.40	-24.88	≤-22.4	PASS
		2441	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-67.52	≤-21.88	PASS
			1000~26500	-1.88	-24.15	≤-21.88	PASS
		2480	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-62.42	≤-21.75	PASS
			1000~26500	-1.75	-24.17	≤-21.75	PASS
2DH5	Ant1	2402	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-66.31	≤-22.46	PASS
			1000~26500	-2.46	-28.92	≤-22.46	PASS
		2441	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-61.42	≤-21.98	PASS
			1000~26500	-1.98	-24.86	≤-21.98	PASS
		2480	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-66.14	≤-21.85	PASS
			1000~26500	-1.85	-29.17	≤-21.85	PASS
3DH5	Ant1	2402	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-66.89	≤-22.47	PASS
			1000~26500	-2.47	-29.14	≤-22.47	PASS
		2441	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-66.81	≤-21.92	PASS
			1000~26500	-1.92	-28.55	≤-21.92	PASS
		2480	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-68.47	≤-21.83	PASS
			1000~26500	-1.83	-27.66	≤-21.83	PASS

Test Graphs

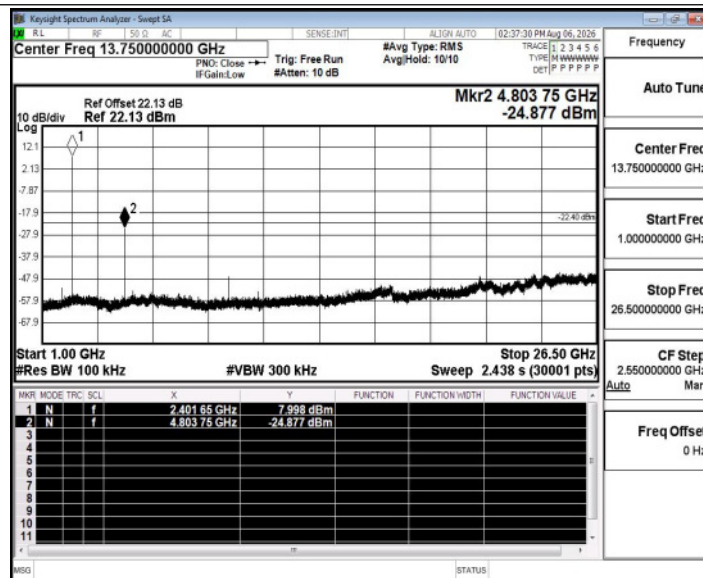
DH5_Ant1_2402_0~Reference



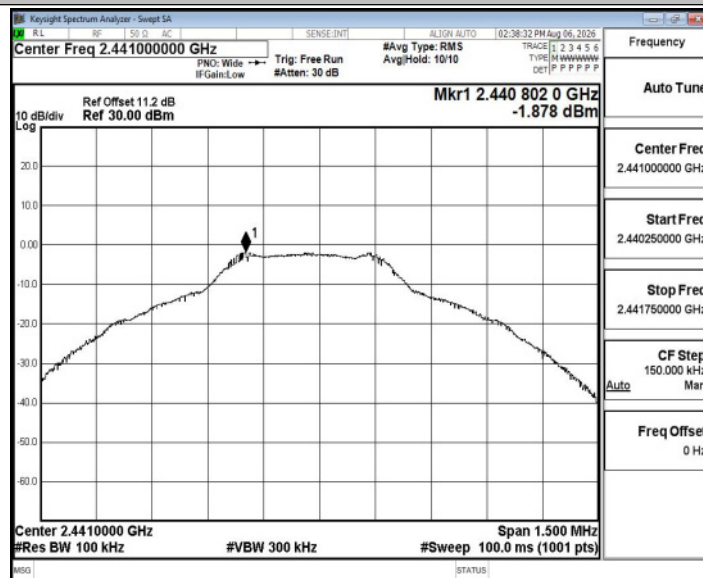
DH5_Ant1_2402_30~1000



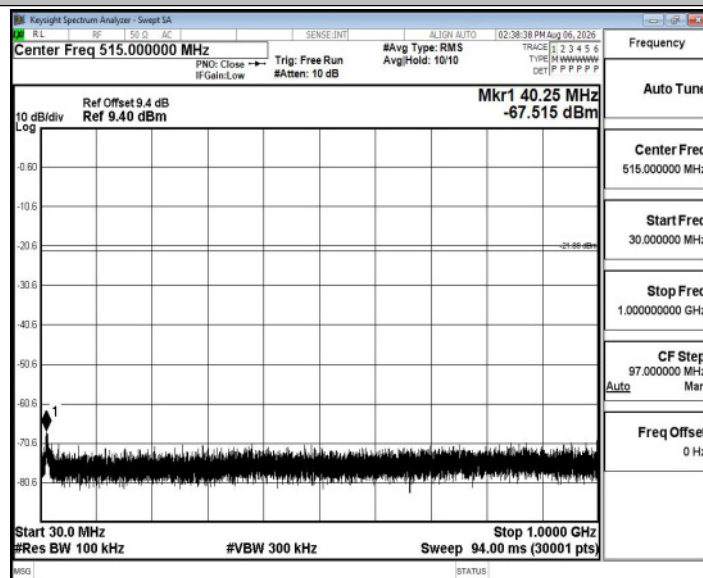
DH5_Ant1_2402_1000~26500



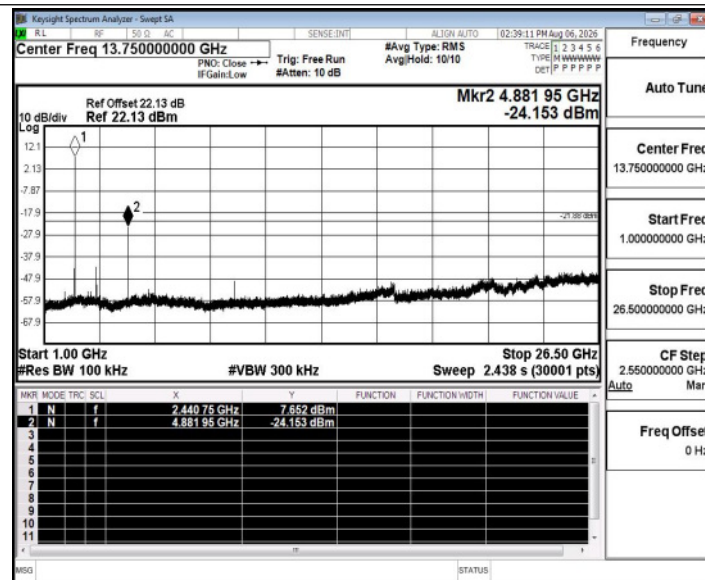
DH5_Ant1_2441_0~Reference



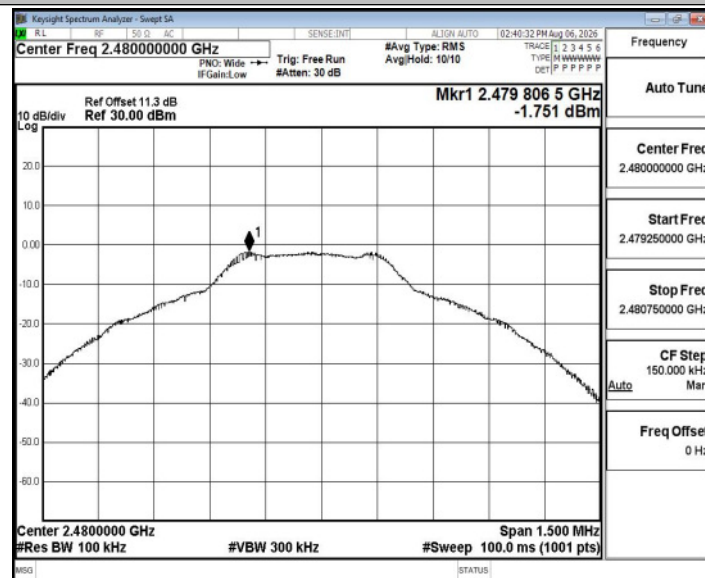
DH5_Ant1_2441_30~1000



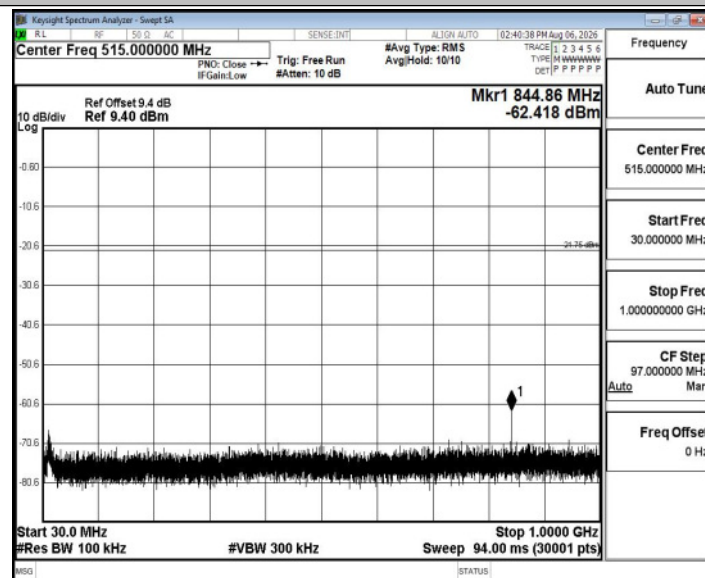
DH5_Ant1_2441_1000~26500



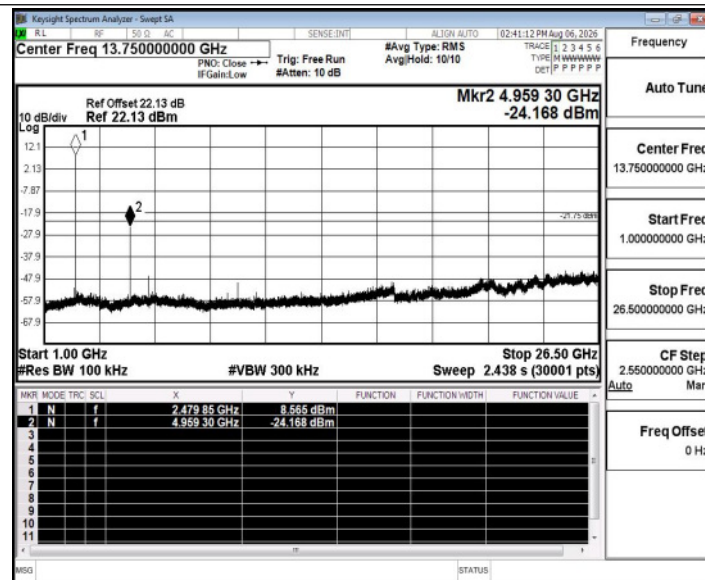
DH5_Ant1_2480_0~Reference



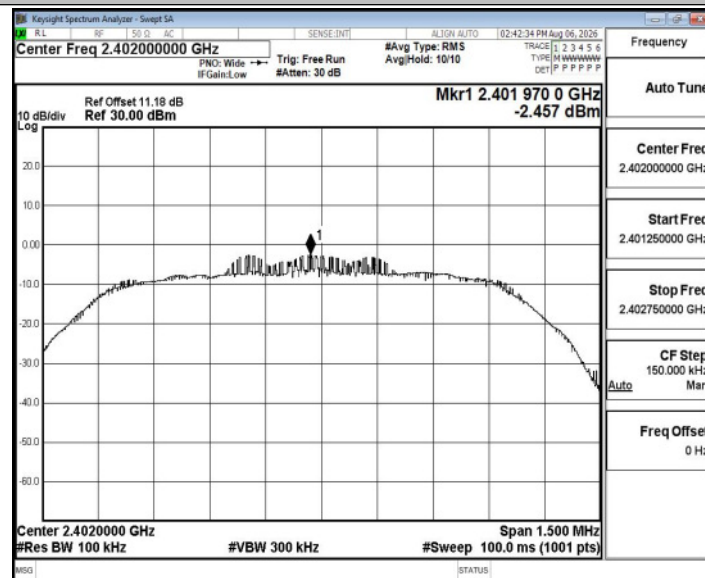
DH5_Ant1_2480_30~1000



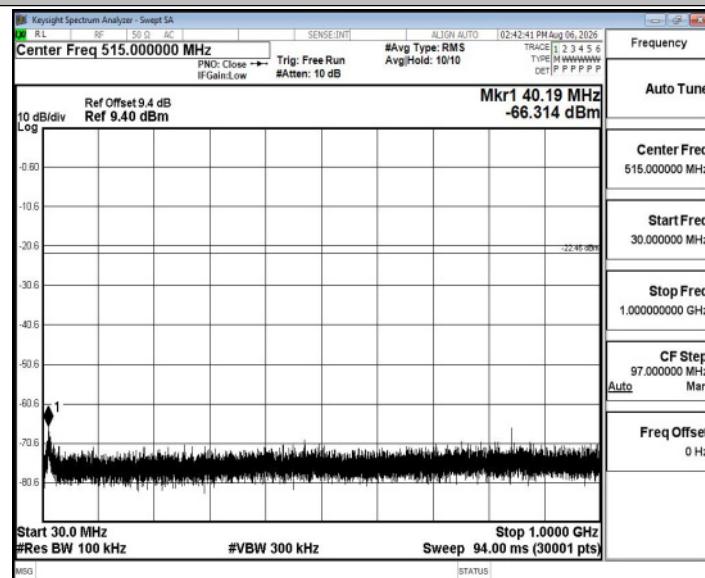
DH5_Ant1_2480_1000~26500



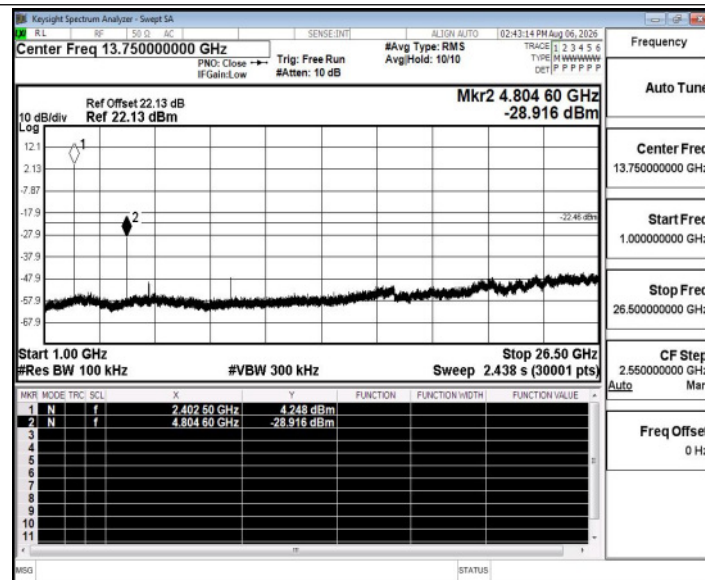
2DH5_Ant1_2402_0~Reference



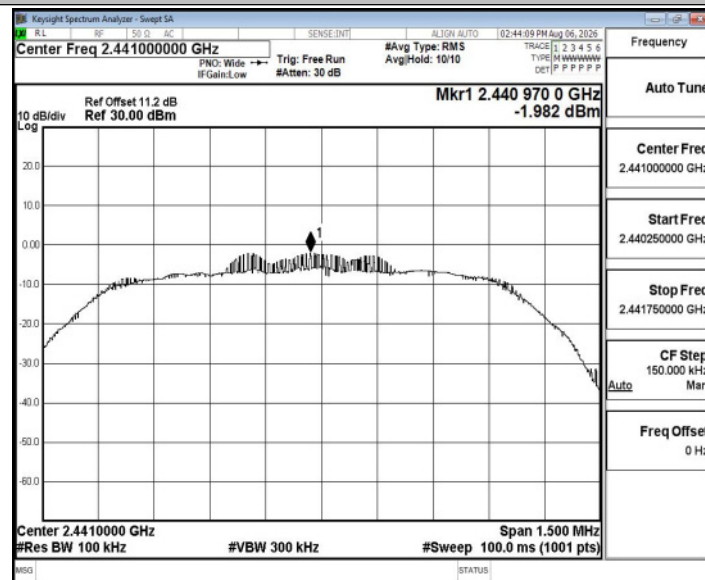
2DH5_Ant1_2402_30~1000



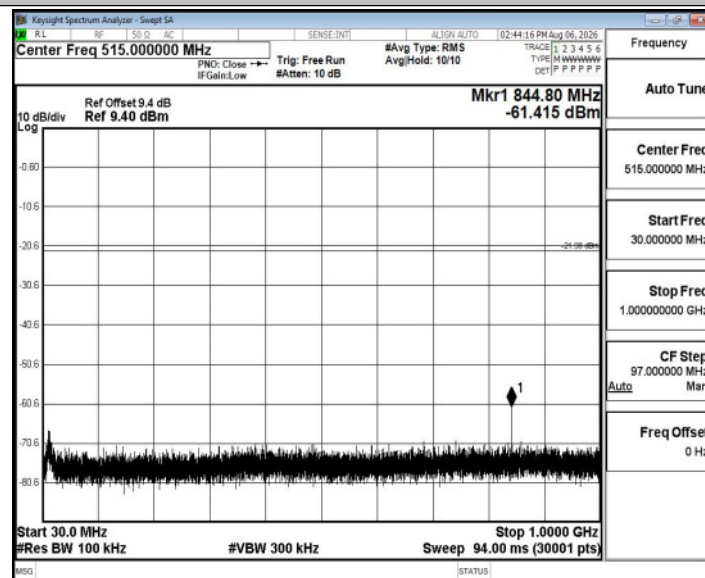
2DH5_Ant1_2402_1000~26500



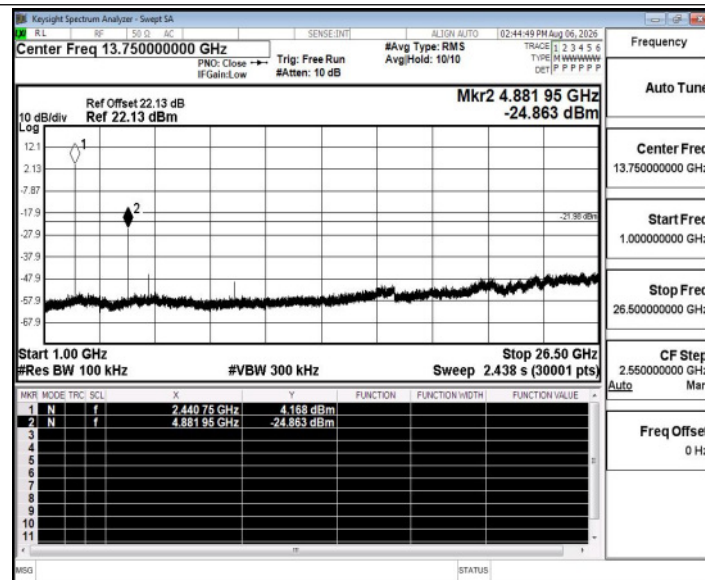
2DH5_Ant1_2441_0~Reference



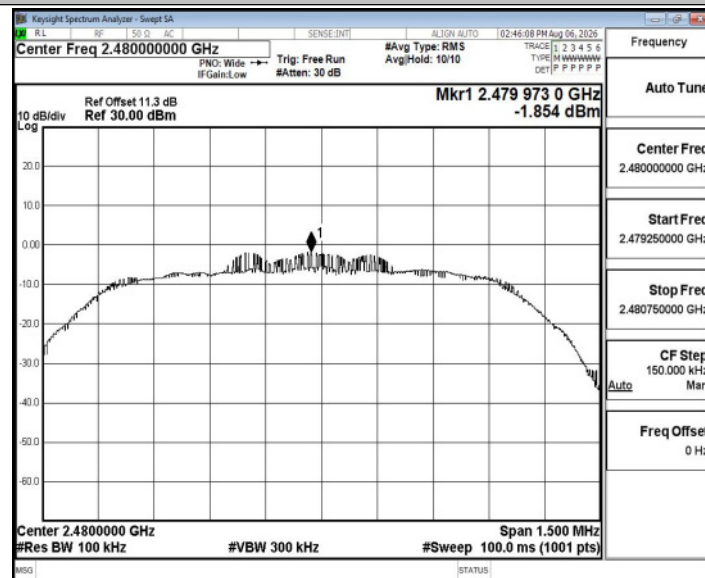
2DH5_Ant1_2441_30~1000



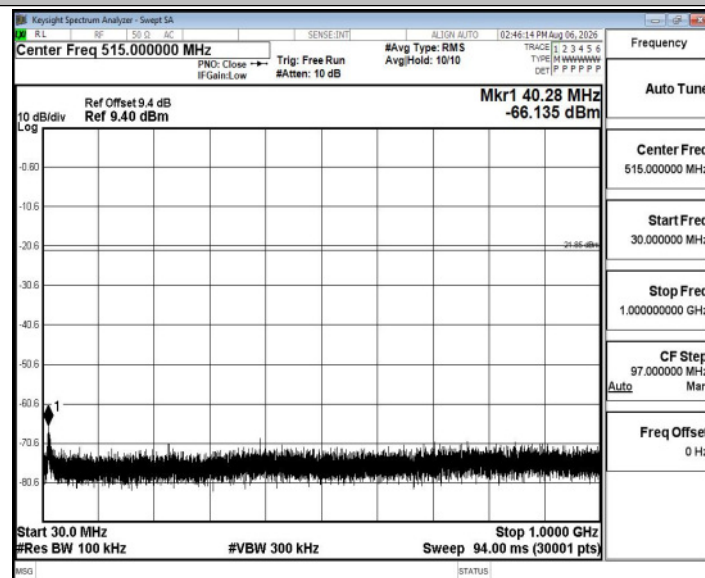
2DH5_Ant1_2441_1000~26500



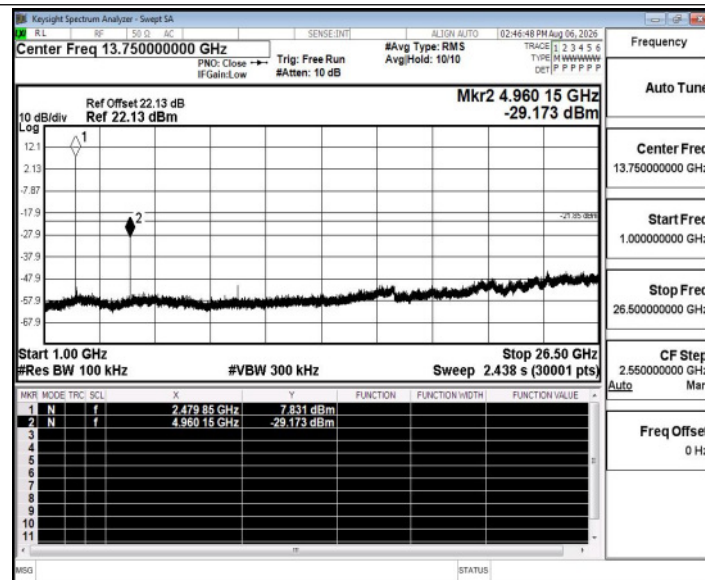
2DH5_Ant1_2480_0~Reference



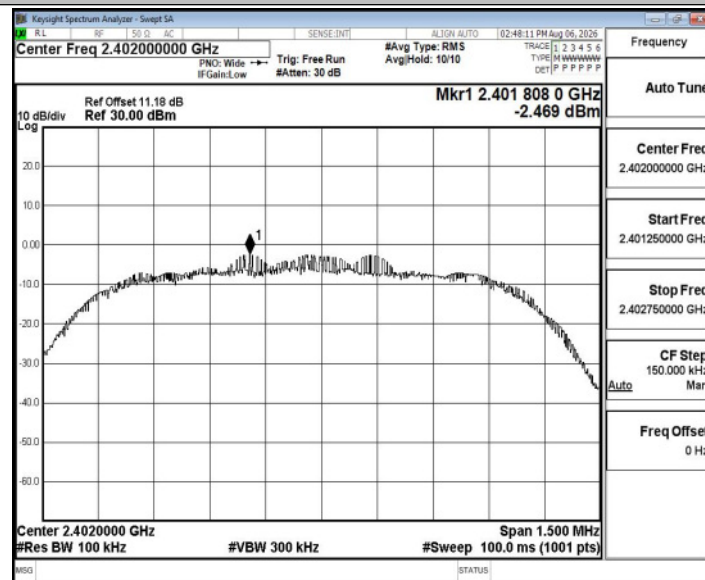
2DH5_Ant1_2480_30~1000



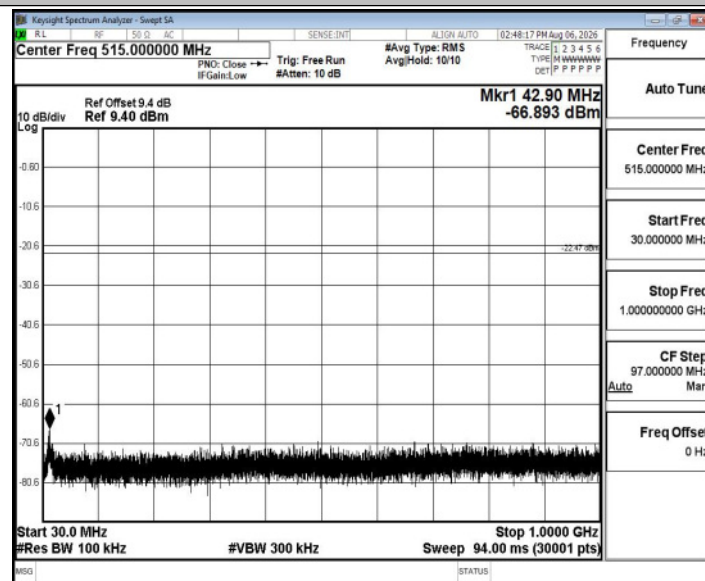
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500