

FCC Appendix RF Test Data for BT

FCC ID : 2ABN9-KJ801

Company : Kogi Electronics Co., Ltd.

EUT : Wireless Carplay Adapter

Model Number : KJ801

Report No. : CTA25121001901

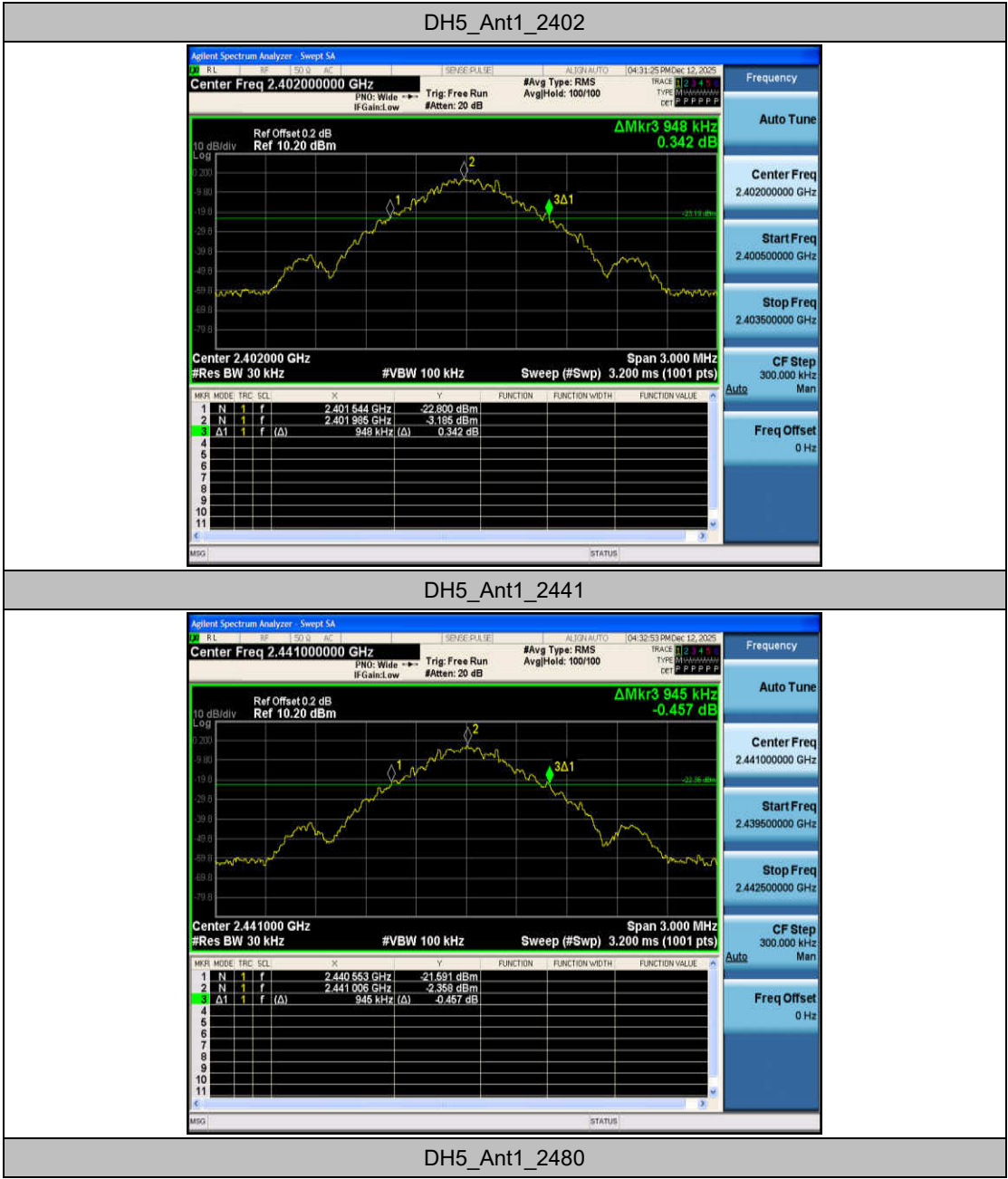
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.544	2402.492	---	---
		2441	0.945	2440.553	2441.498	---	---
		2480	0.948	2479.550	2480.498	---	---
2DH5	Ant1	2402	1.281	2401.379	2402.660	---	---
		2441	1.326	2440.343	2441.669	---	---
		2480	1.323	2479.346	2480.669	---	---
3DH5	Ant1	2402	1.314	2401.352	2402.666	---	---
		2441	1.329	2440.346	2441.675	---	---
		2480	1.317	2479.349	2480.666	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87663	2401.5721	2402.4487	---	---
		2441	0.87174	2440.5722	2441.4440	---	---
		2480	0.86668	2479.5742	2480.4409	---	---
2DH5	Ant1	2402	1.1891	2401.4151	2402.6042	---	---
		2441	1.1858	2440.4174	2441.6032	---	---
		2480	1.1880	2479.4169	2480.6049	---	---
3DH5	Ant1	2402	1.1926	2401.4142	2402.6068	---	---
		2441	1.1915	2440.4139	2441.6054	---	---
		2480	1.1883	2479.4162	2480.6045	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



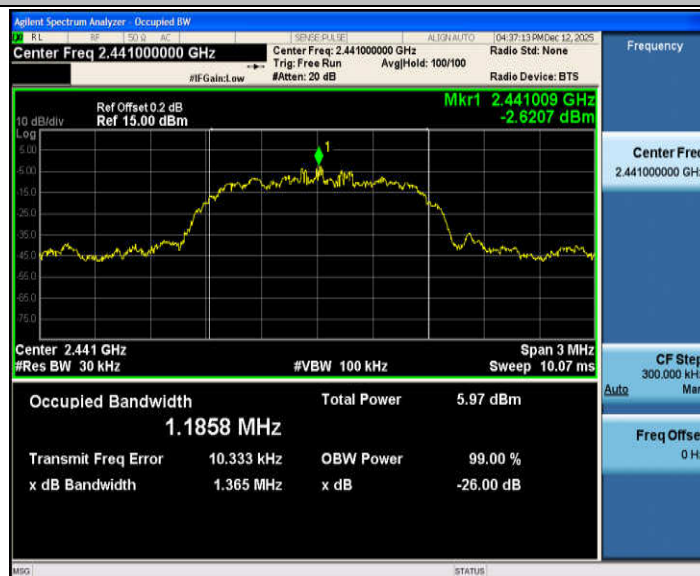
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.19	≤20.97	PASS
		2441	-0.43	≤20.97	PASS
		2480	-0.49	≤20.97	PASS
2DH5	Ant1	2402	2.52	≤20.97	PASS
		2441	2.25	≤20.97	PASS
		2480	2.20	≤20.97	PASS
3DH5	Ant1	2402	2.50	≤20.97	PASS
		2441	2.23	≤20.97	PASS
		2480	2.16	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥ 0.632	PASS
2DH5	Ant1	Hop	1.128	≥ 0.884	PASS
3DH5	Ant1	Hop	1.16	≥ 0.886	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

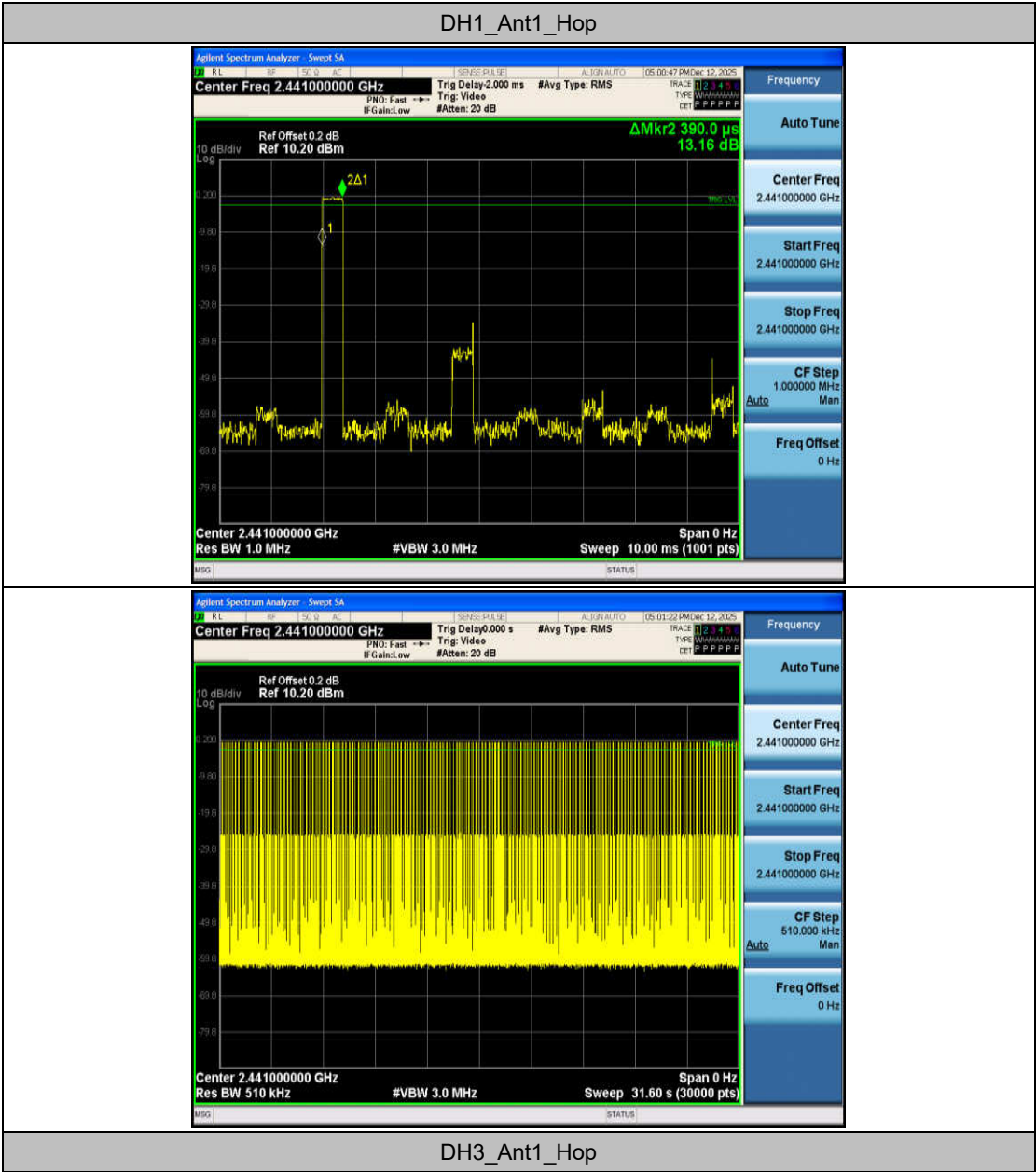


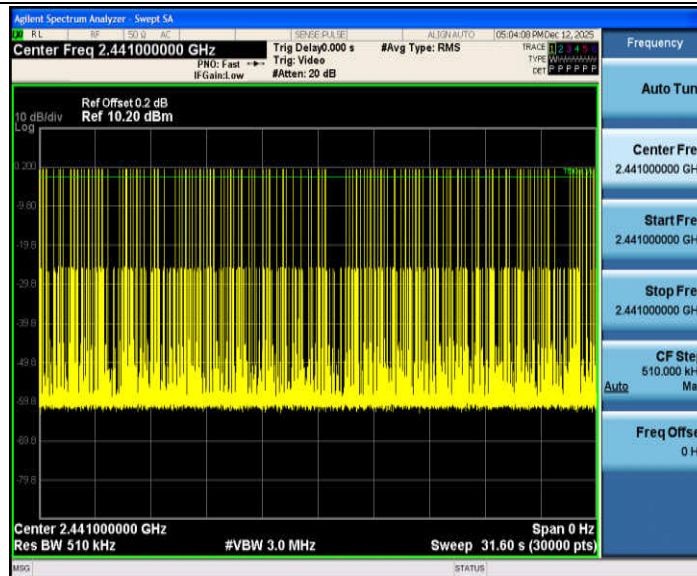
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
DH3	Ant1	Hop	1.640	162	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.890	107	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.640	156	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.900	111	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.390	319	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.640	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.900	98	0.284	≤0.4	PASS

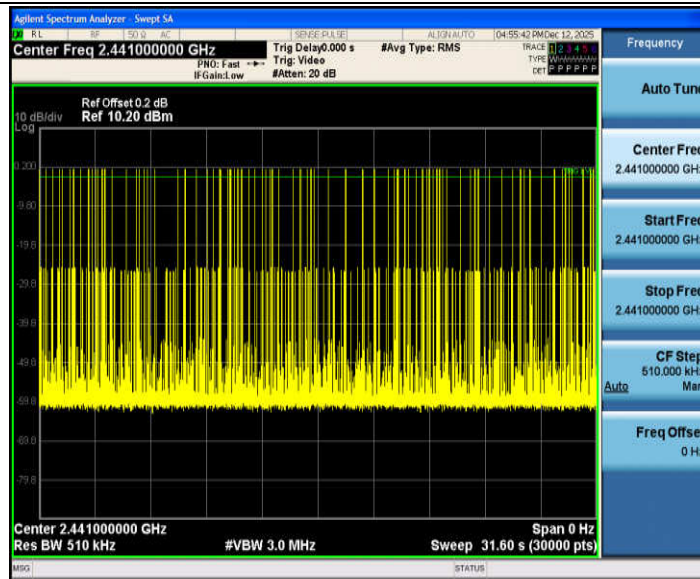
Test Graphs



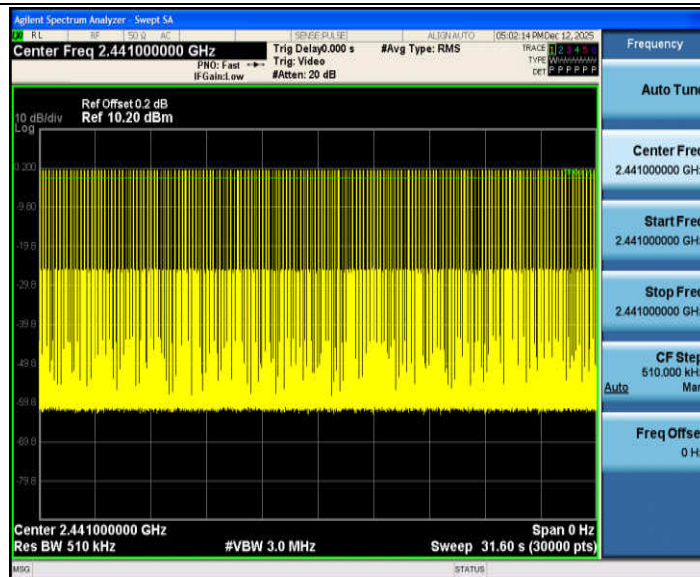
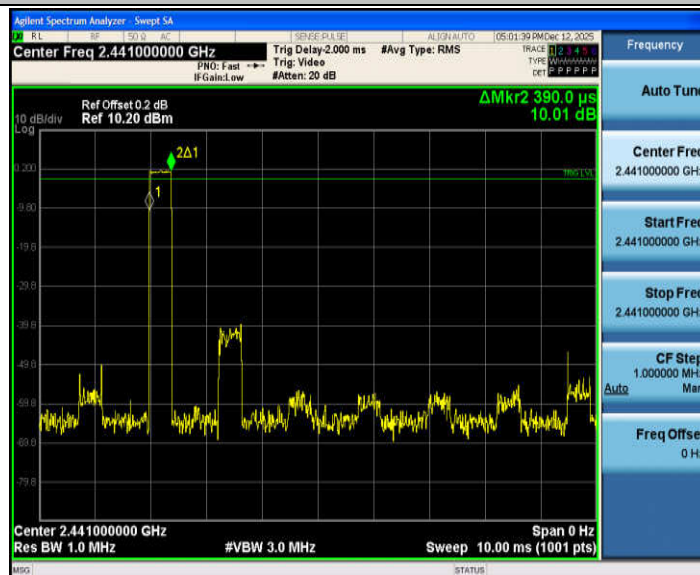


DH5_Ant1_Hop

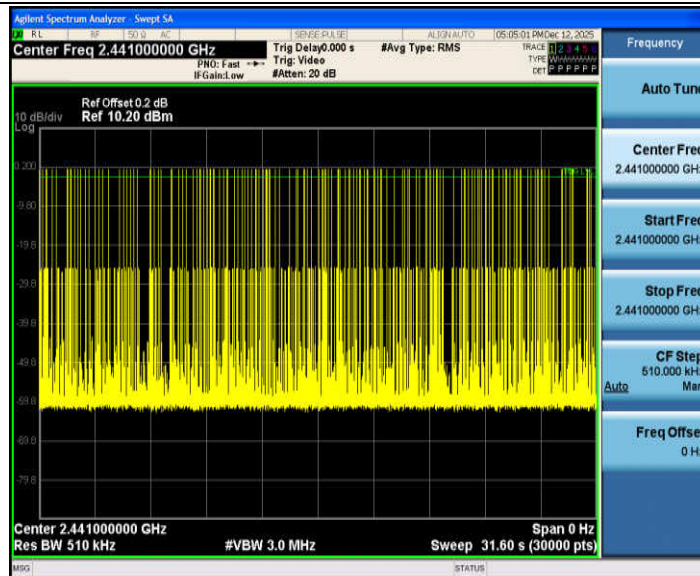




2DH1_Ant1_Hop

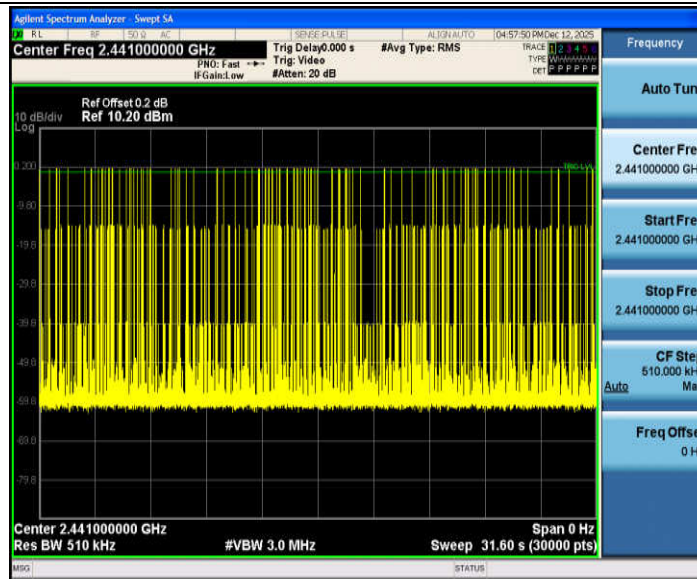


2DH3_Ant1_Hop

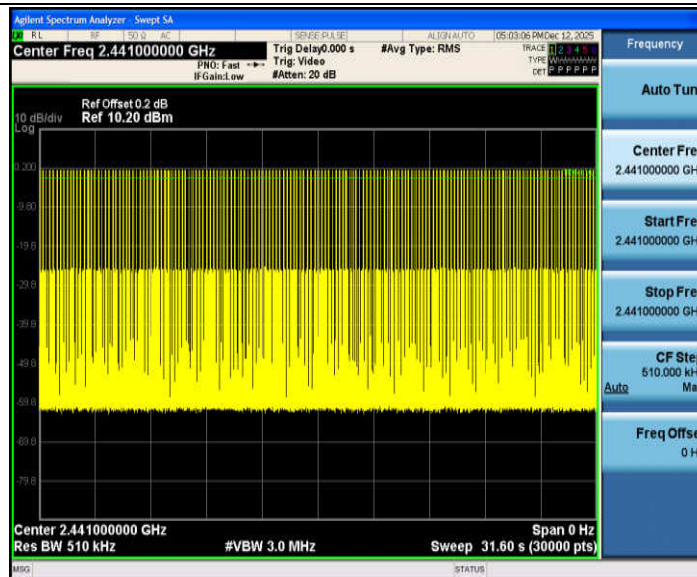
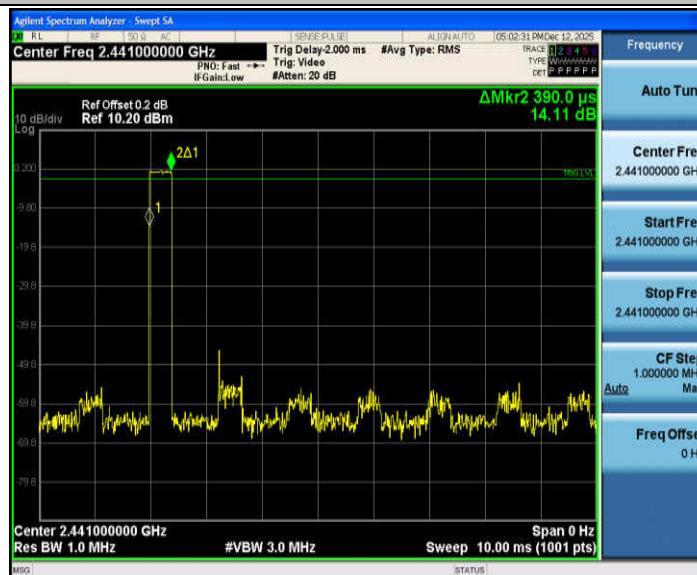


2DH5_Ant1_Hop

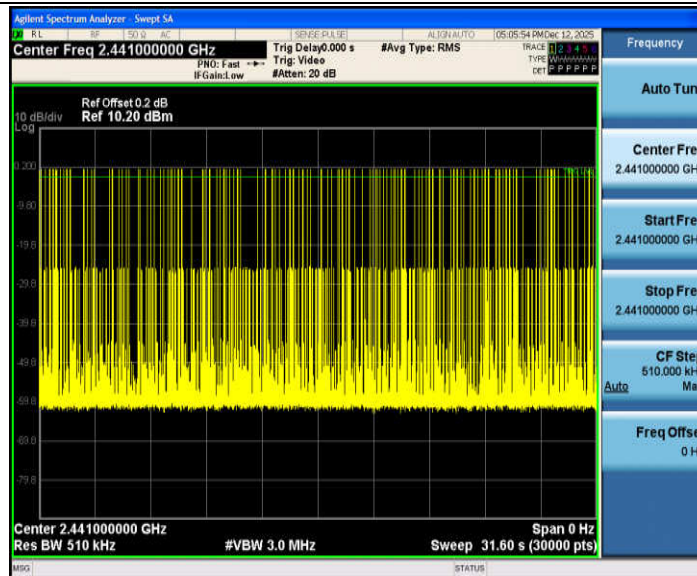




3DH1_Ant1_Hop

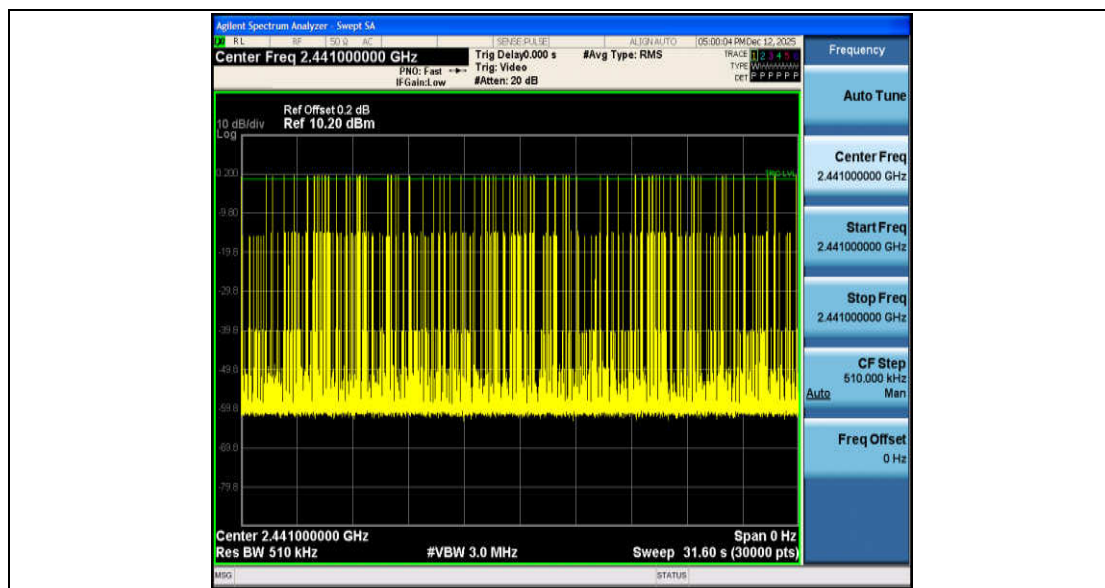


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix F: 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



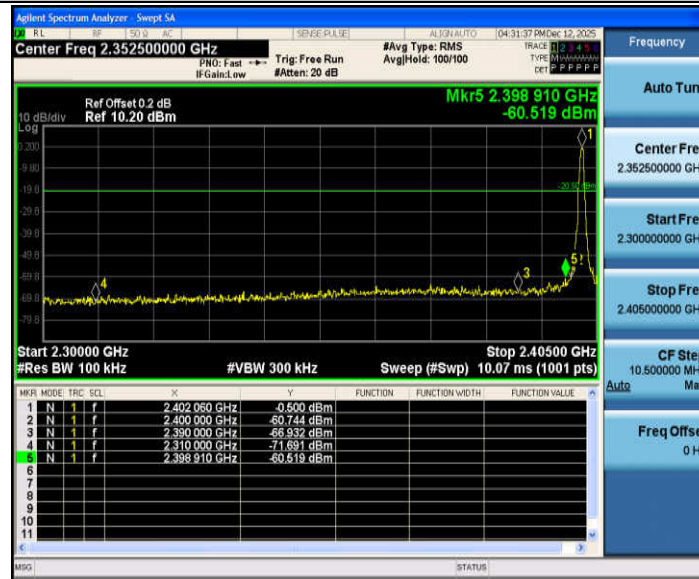
Appendix G: Band edge measurements

Test Result

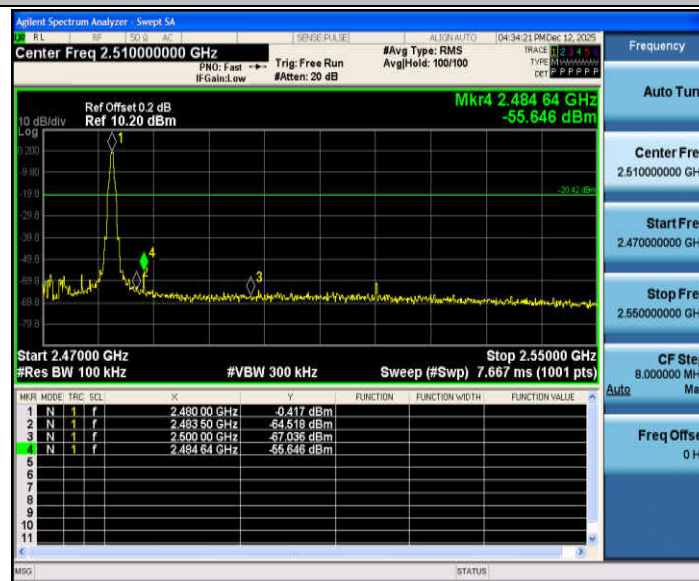
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.50	-60.52	≤ -20.5	PASS
		High	2480	-0.42	-55.65	≤ -20.42	PASS
		Low	Hop_2402	-1.21	-56.18	≤ -21.21	PASS
		High	Hop_2480	-1.15	-63.81	≤ -21.15	PASS
2DH5	Ant1	Low	2402	-0.12	-51.13	≤ -20.12	PASS
		High	2480	-1.08	-52.34	≤ -21.08	PASS
		Low	Hop_2402	-0.83	-52.77	≤ -20.83	PASS
		High	Hop_2480	-4.02	-65.06	≤ -24.02	PASS
3DH5	Ant1	Low	2402	-0.25	-51.28	≤ -20.25	PASS
		High	2480	-0.74	-57.75	≤ -20.74	PASS
		Low	Hop_2402	-1.48	-54.89	≤ -21.48	PASS
		High	Hop_2480	-1.40	-63.9	≤ -21.4	PASS

Test Graphs

DH5_Ant1_Low_2402



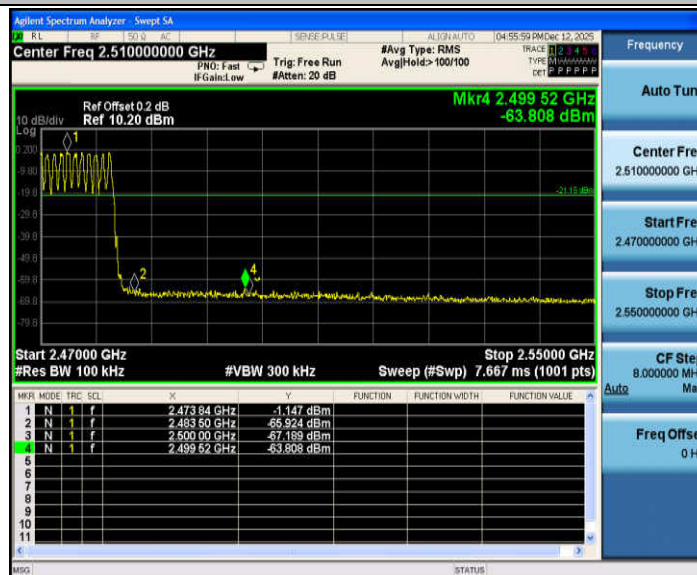
DH5_Ant1_High_2480



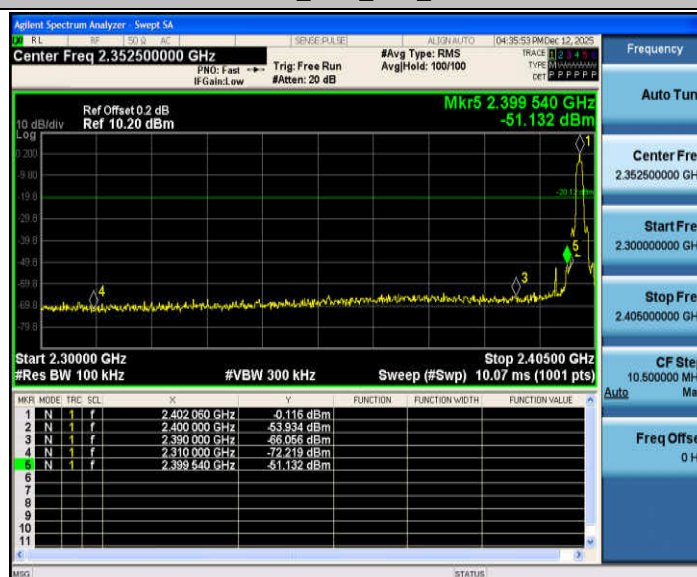
DH5_Ant1_Low_Hop_2402



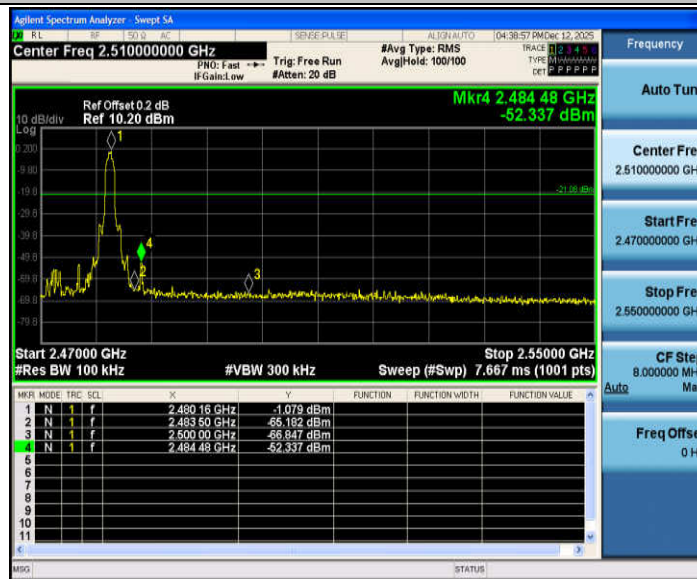
DH5_Ant1_High_Hop_2480



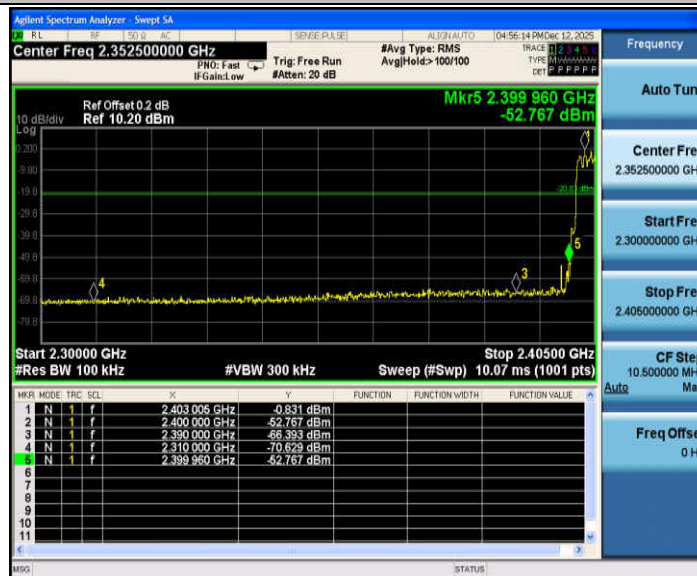
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



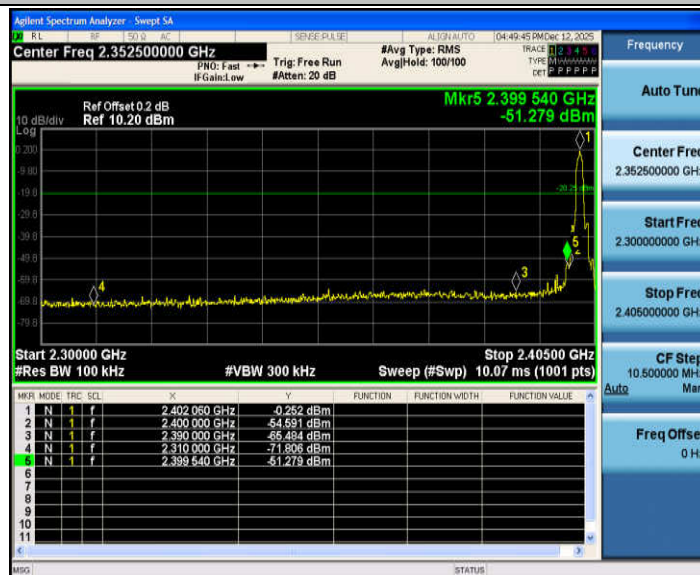
2DH5_Ant1_Low_Hop_2402



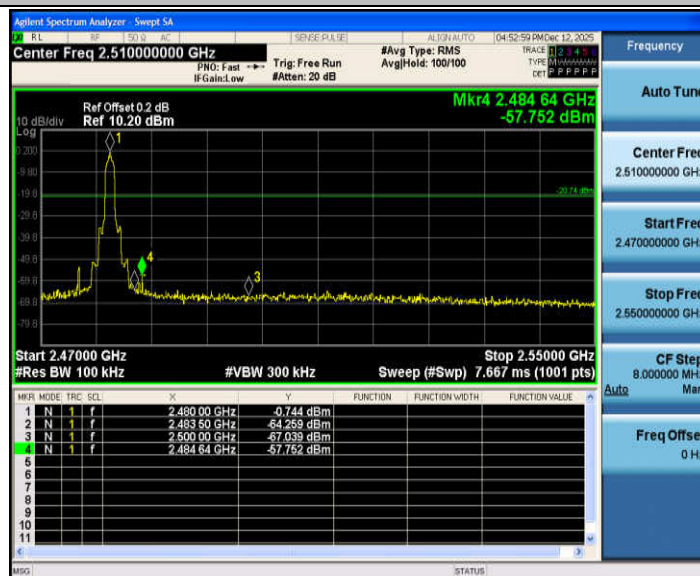
2DH5_Ant1_High_Hop_2480



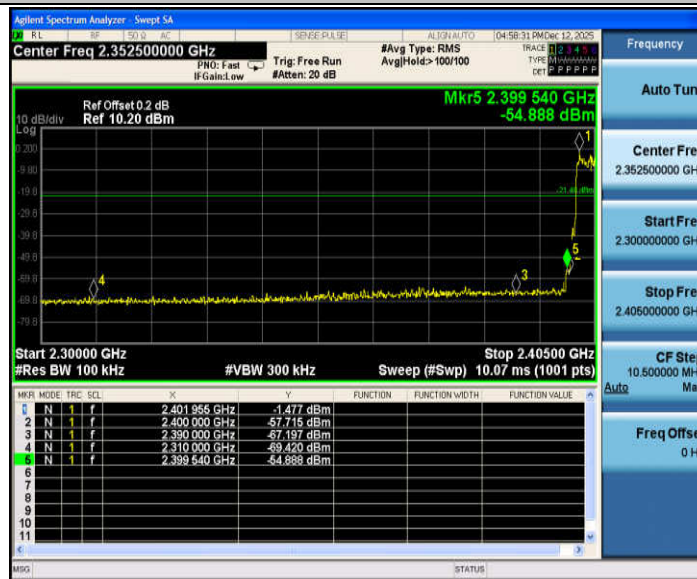
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

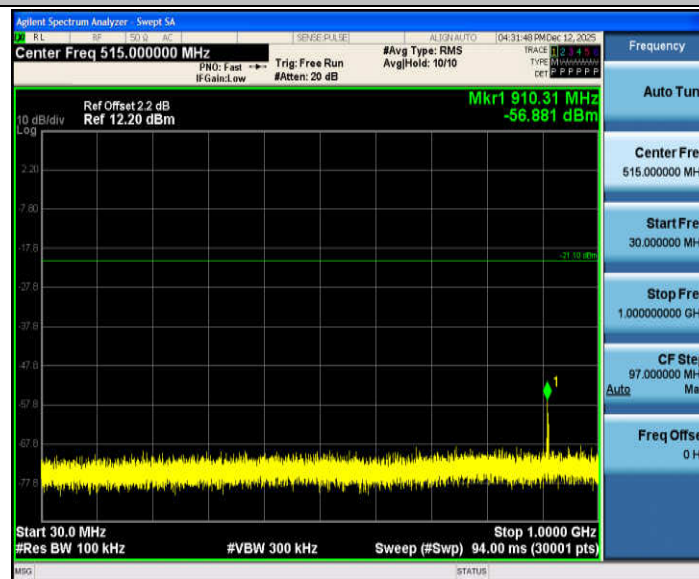
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-56.88	≤ -21.1	PASS
			1000~26500	-1.10	-42.26	≤ -21.1	PASS
		2441	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-68.3	≤ -21.56	PASS
			1000~26500	-1.56	-38.39	≤ -21.56	PASS
		2480	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-66.99	≤ -21.65	PASS
			1000~26500	-1.65	-43.13	≤ -21.65	PASS
2DH5	Ant1	2402	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-68.01	≤ -21.97	PASS
			1000~26500	-1.97	-45.23	≤ -21.97	PASS
		2441	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-64.48	≤ -22.53	PASS
			1000~26500	-2.53	-45.75	≤ -22.53	PASS
		2480	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-68.06	≤ -22.63	PASS
			1000~26500	-2.63	-45.38	≤ -22.63	PASS
3DH5	Ant1	2402	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-58.74	≤ -23.33	PASS
			1000~26500	-3.33	-44.16	≤ -23.33	PASS
		2441	Reference	-3.68	-3.68	---	PASS
			30~1000	-3.68	-62.46	≤ -23.68	PASS
			1000~26500	-3.68	-43.49	≤ -23.68	PASS
		2480	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-68.57	≤ -22.28	PASS
			1000~26500	-2.28	-44.66	≤ -22.28	PASS

Test Graphs

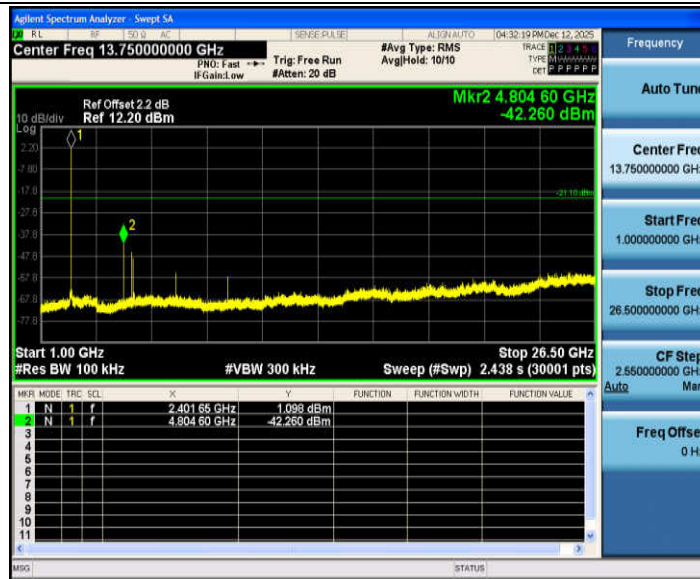
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



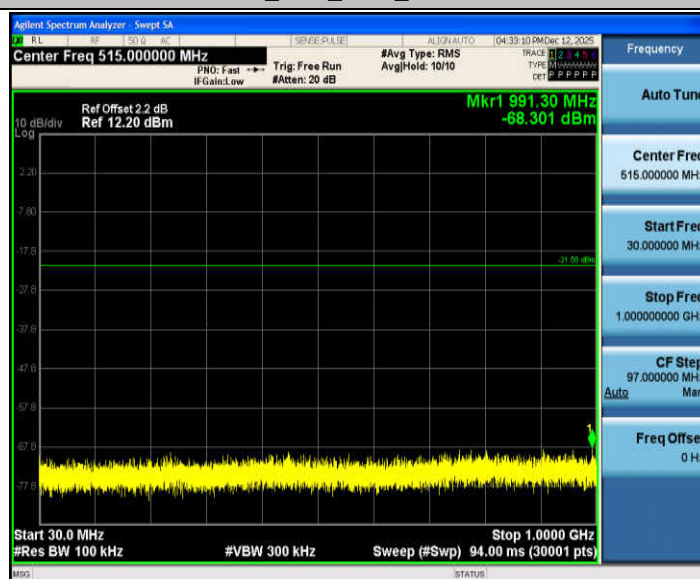
DH5_Ant1_2402_1000~26500



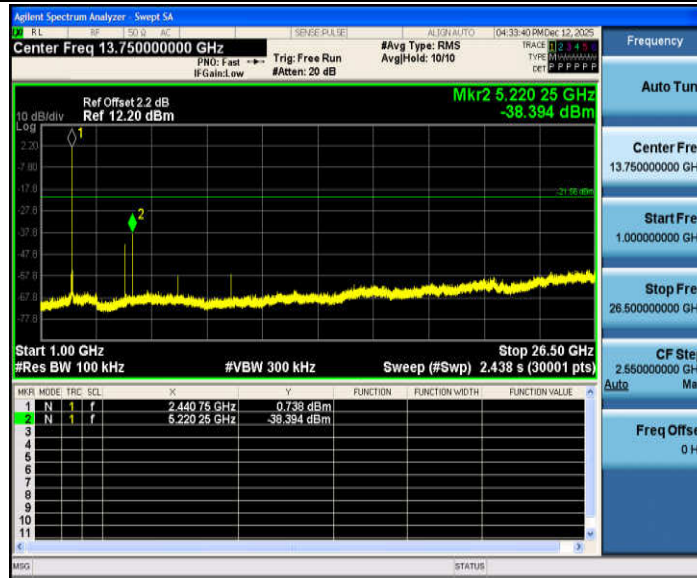
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



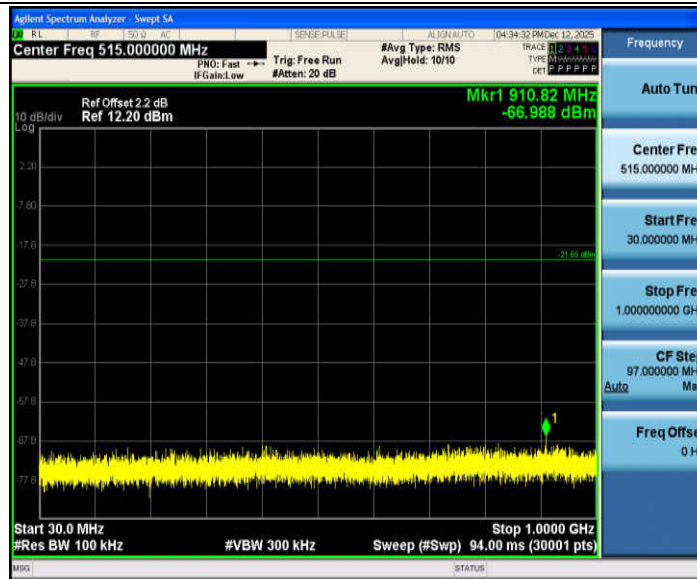
DH5_Ant1_2441_1000~26500



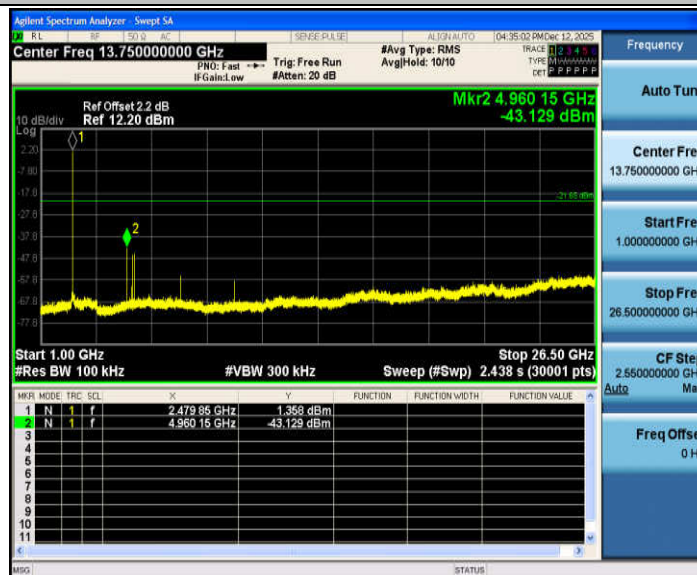
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



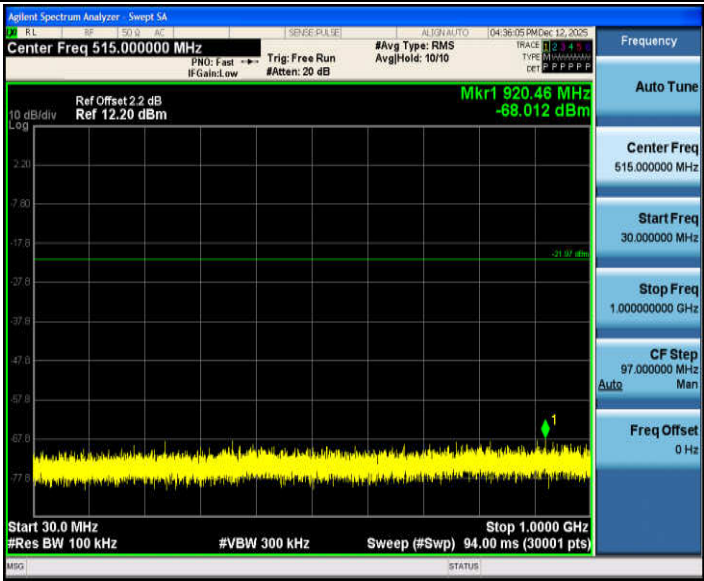
DH5_Ant1_2480_1000~26500



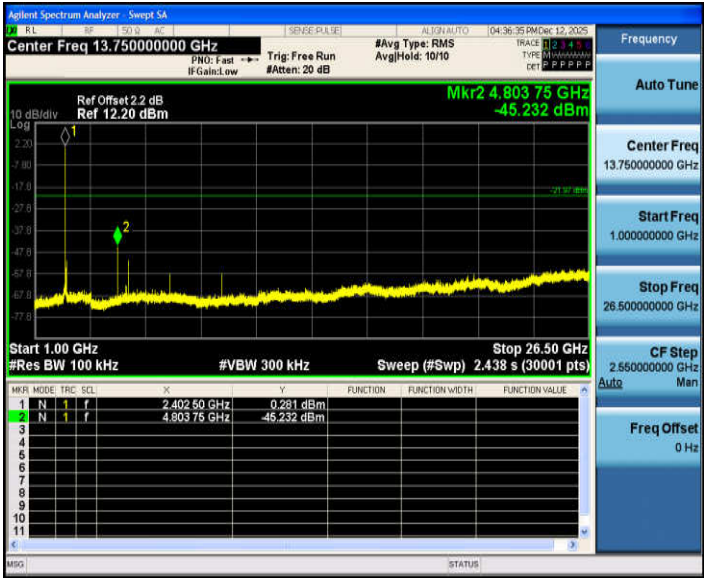
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



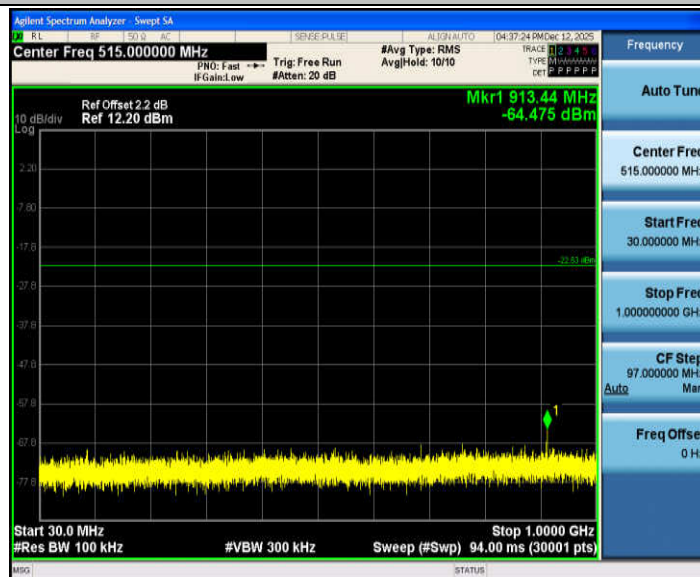
2DH5_Ant1_2402_1000~26500



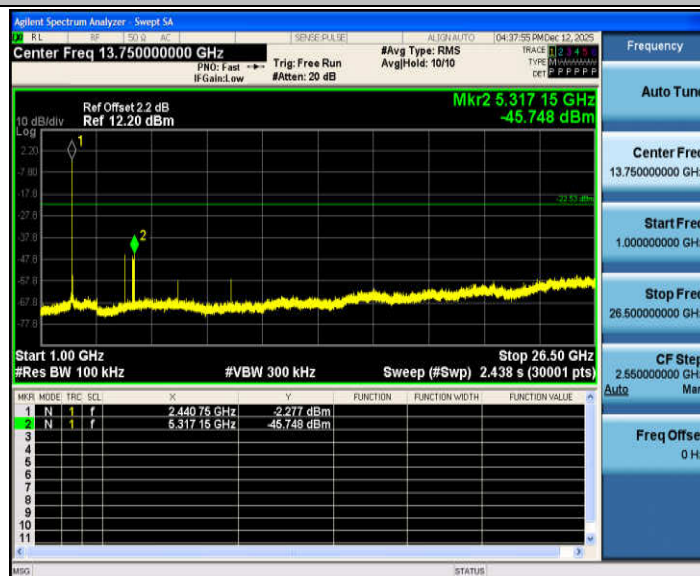
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



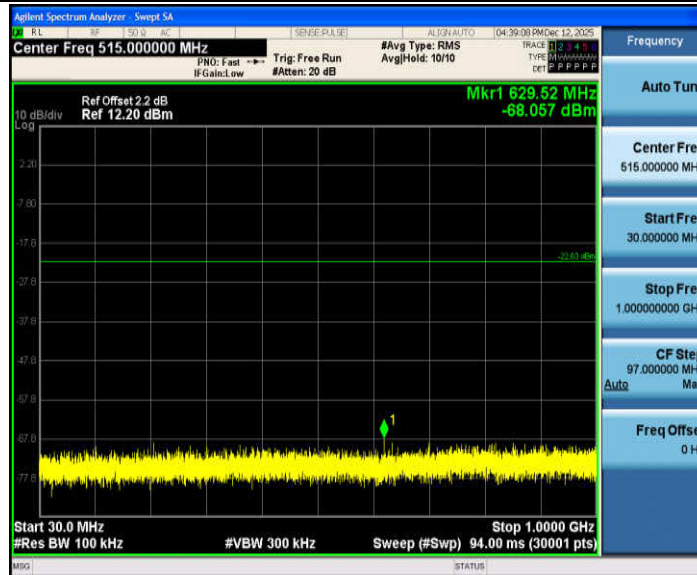
2DH5_Ant1_2441_1000~26500



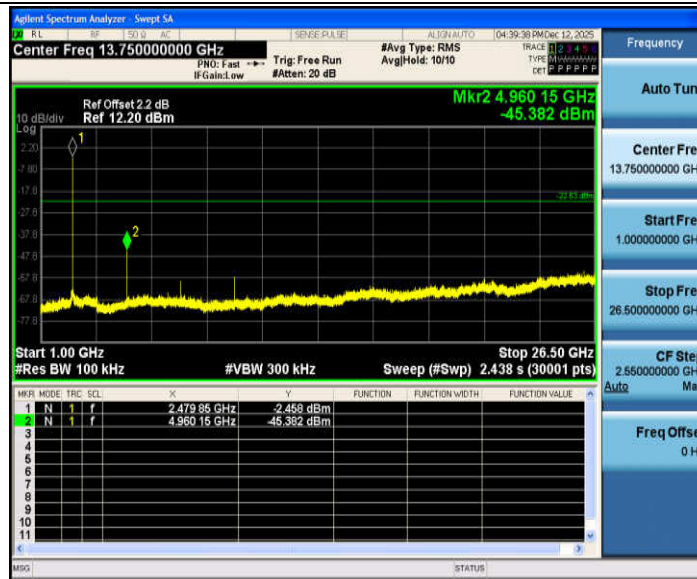
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



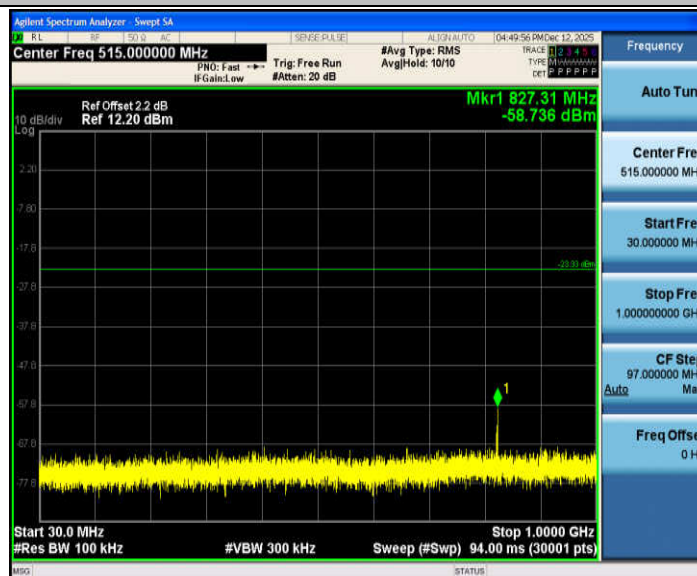
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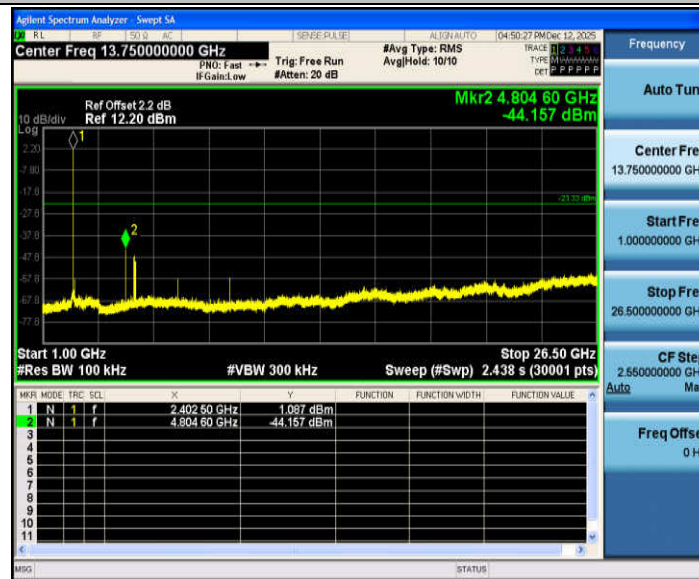
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3DH5_Ant1_2402_30~1000



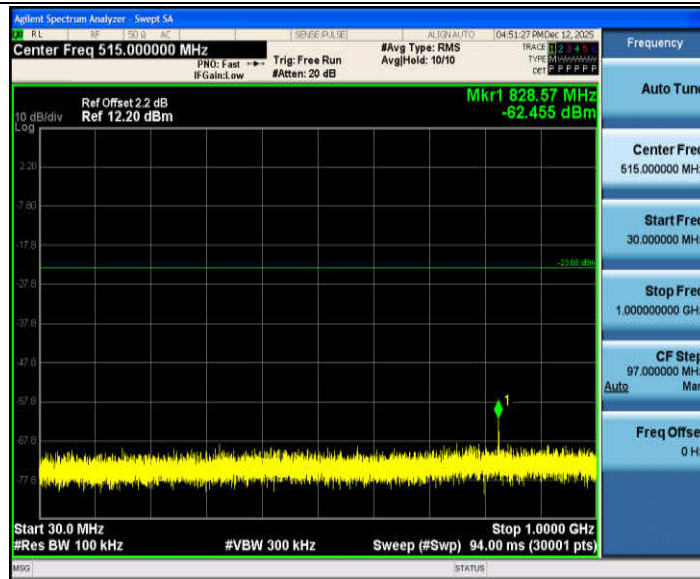
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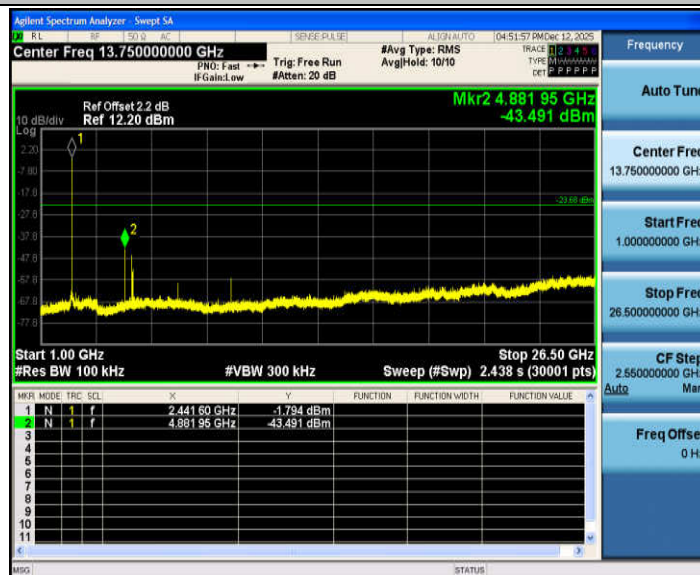
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



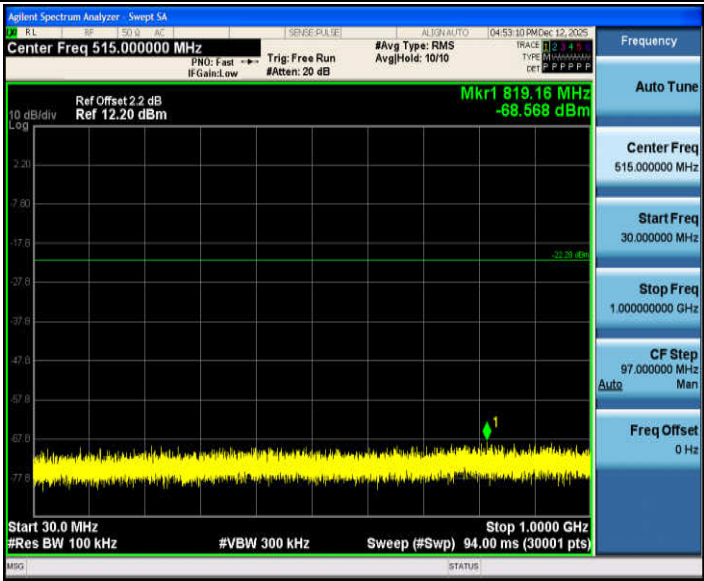
3DH5_Ant1_2441_1000~26500



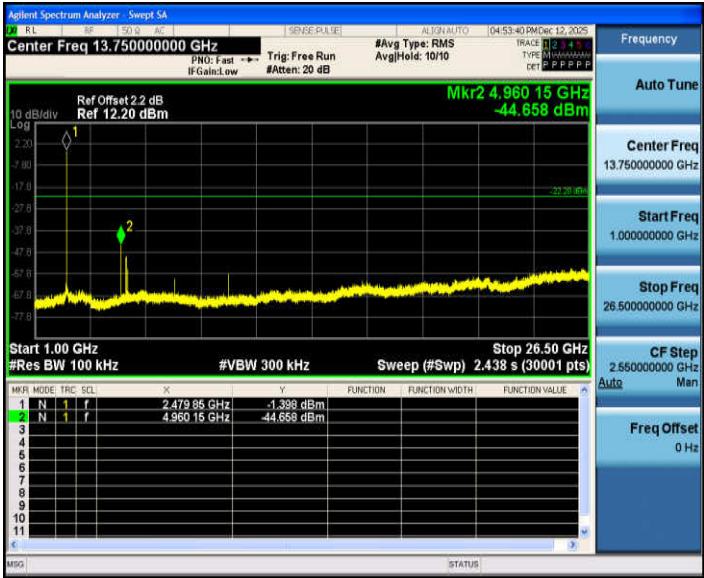
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

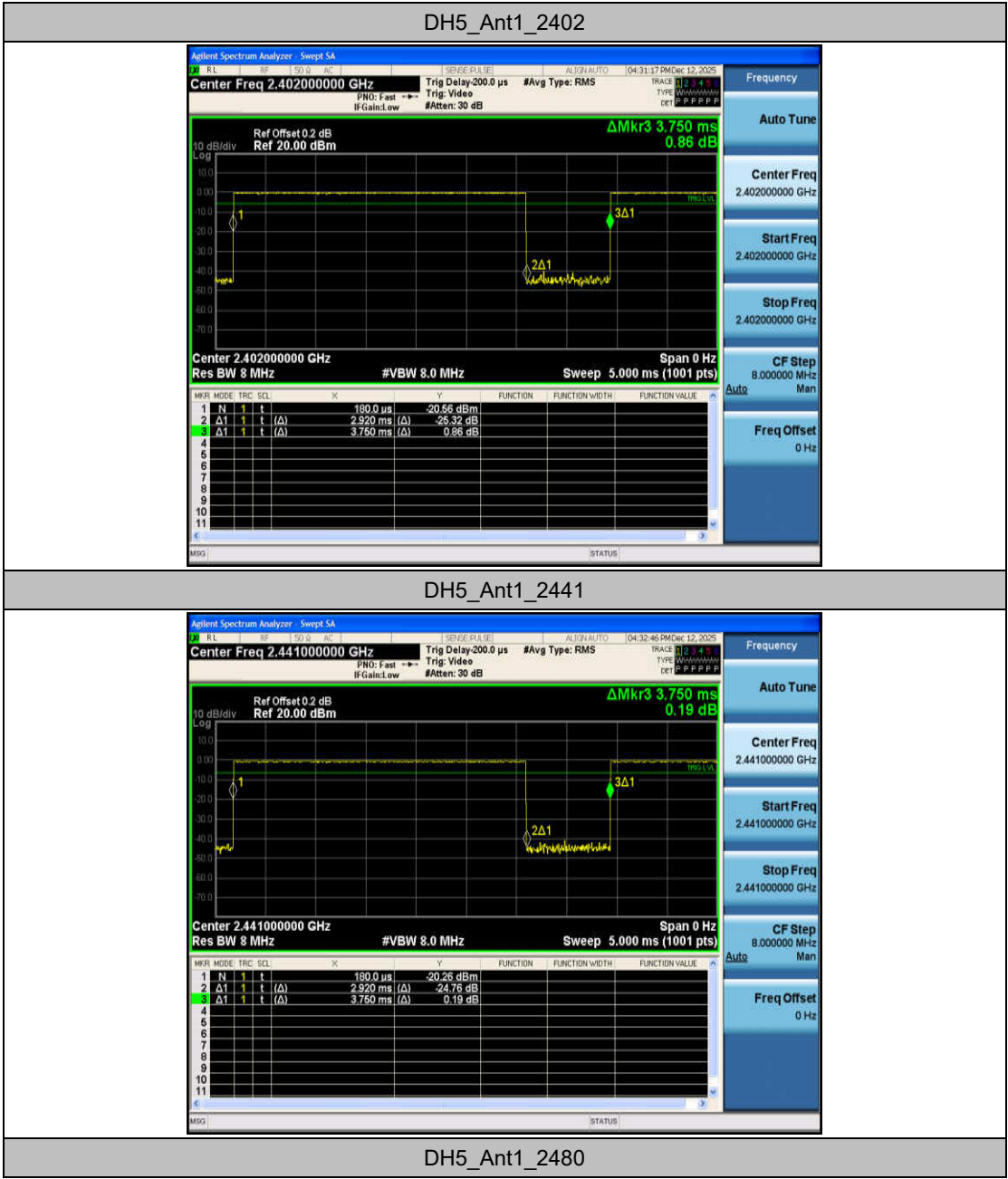


Appendix I: Duty Cycle

Test Result

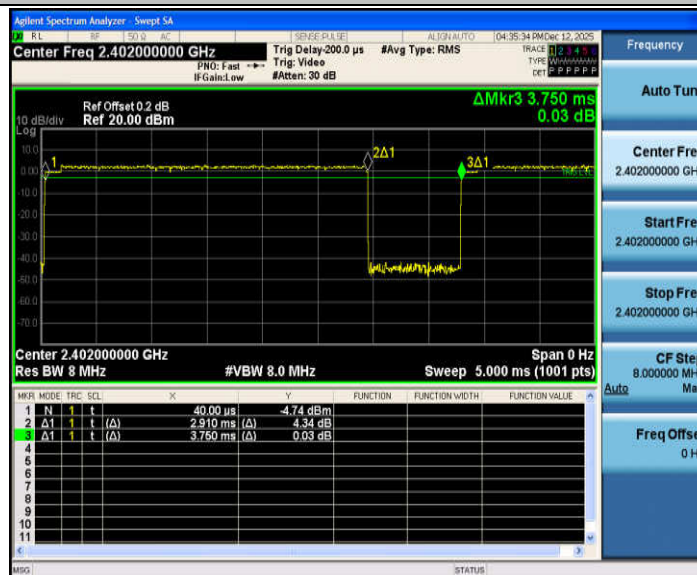
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---
3DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---

Test Graphs

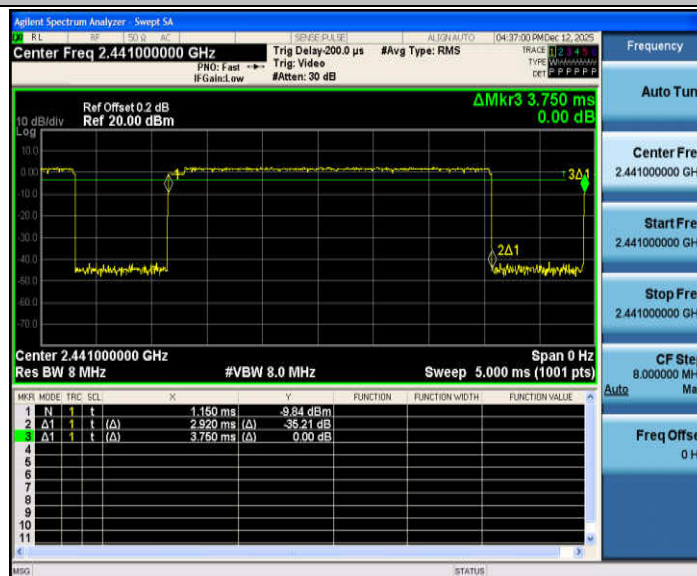




2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

