

Applicant: Shenzhen Anboqi Technology Co.,Ltd

Case No. : TH2401212-C05

EUT: Wifi Camera

M/N: ABQ-A28

Standard: FCC Part15 Subpart C, Section 15.247

Test Power Supply: NA

Ambient Condition: 20 °C, 36 %RH, 101.325 kPa

Test Date: 2024.01.23

Test Engineer: Blue

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.059	---	---		
		2441	1.008	---	---		
		2480	1.005	---	---		
2DH5	Ant1	2402	1.299	---	---		
		2441	1.341	---	---		
		2480	1.326	---	---		
3DH5	Ant1	2402	1.353	---	---		
		2441	1.371	---	---		
		2480	1.308	---	---		

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



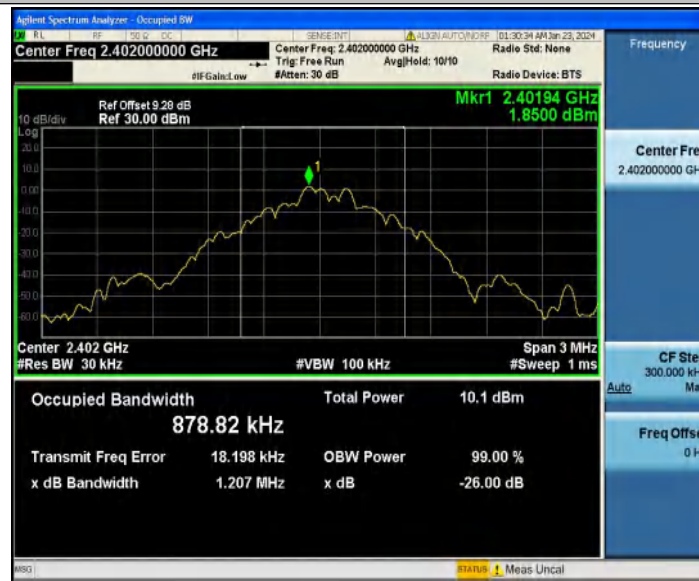
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87882	2401.5788	2402.4576	---	---
		2441	0.94828	2440.5380	2441.4863	---	---
		2480	0.86084	2479.5541	2480.4150	---	---
2DH5	Ant1	2402	1.1987	2401.3957	2402.5944	---	---
		2441	1.1669	2440.4166	2441.5835	---	---
		2480	1.2261	2479.3894	2480.6155	---	---
3DH5	Ant1	2402	1.2286	2401.3814	2402.6100	---	---
		2441	1.2134	2440.3684	2441.5818	---	---
		2480	1.2271	2479.3937	2480.6208	---	---

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	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.04	≤20.97	PASS
		2441	4.11	≤20.97	PASS
		2480	3.39	≤20.97	PASS
2DH5	Ant1	2402	5.23	≤20.97	PASS
		2441	5.37	≤20.97	PASS
		2480	4.9	≤20.97	PASS
3DH5	Ant1	2402	5.63	≤20.97	PASS
		2441	5.83	≤20.97	PASS
		2480	5.29	≤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



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.706	PASS
2DH5	Ant1	Hop	1.022	≥ 0.894	PASS
3DH5	Ant1	Hop	0.996	≥ 0.914	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



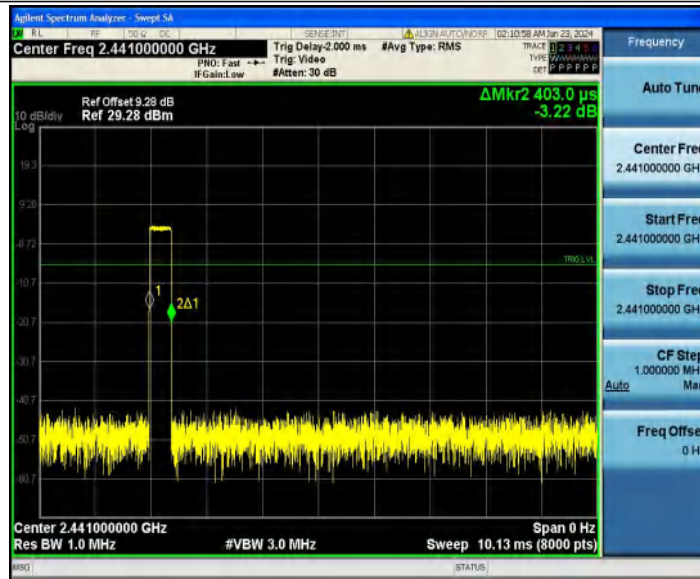
Appendix E: Time of occupancy

Test Result

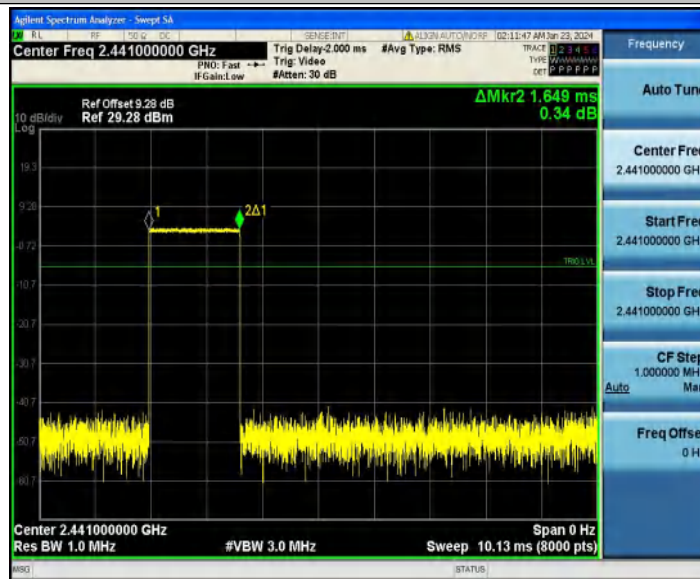
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.403	320	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.649	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH1	Ant1	Hop	0.403	320	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.654	160	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.902	106.67	0.31	≤0.4	PASS
3DH1	Ant1	Hop	0.403	320	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.654	160	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.904	106.67	0.31	≤0.4	PASS

Test Graphs

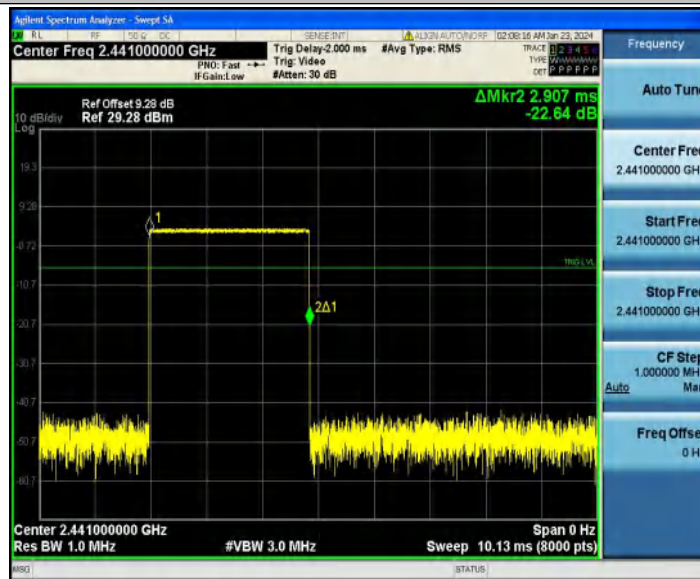
DH1_Ant1_Hop



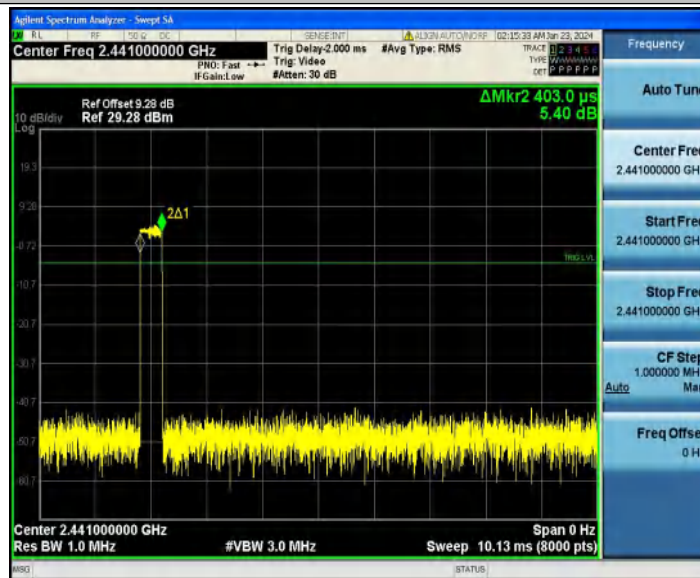
DH3_Ant1_Hop



DH5_Ant1_Hop



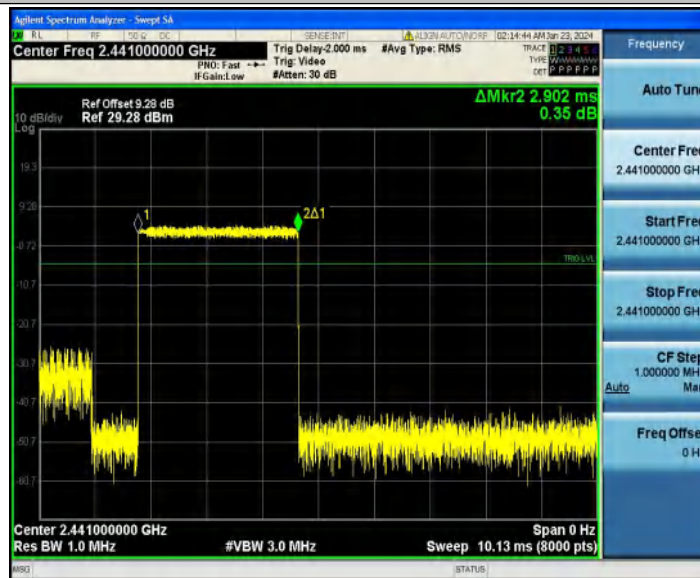
2DH1_Ant1_Hop



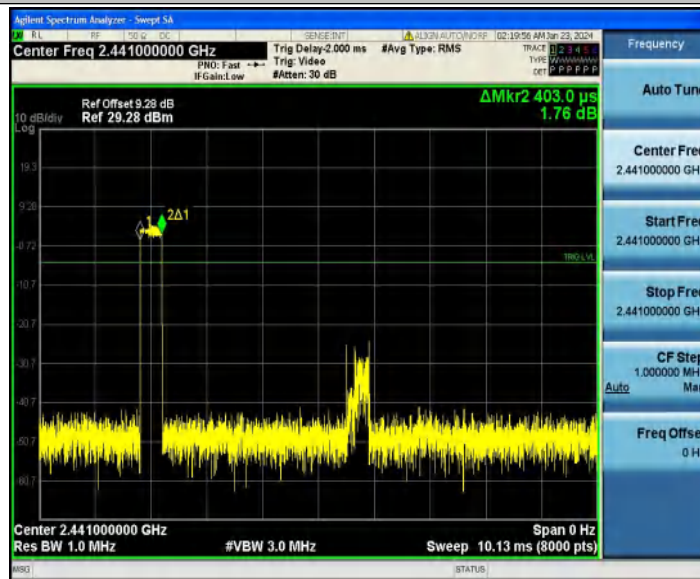
2DH3_Ant1_Hop



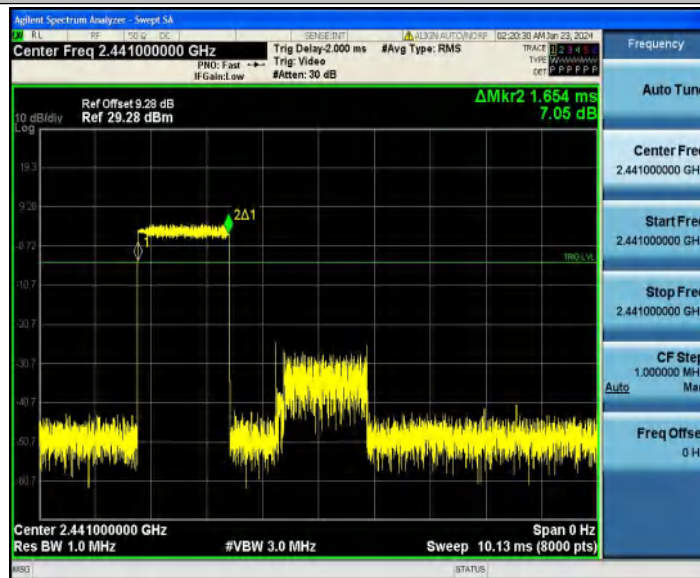
2DH5_Ant1_Hop



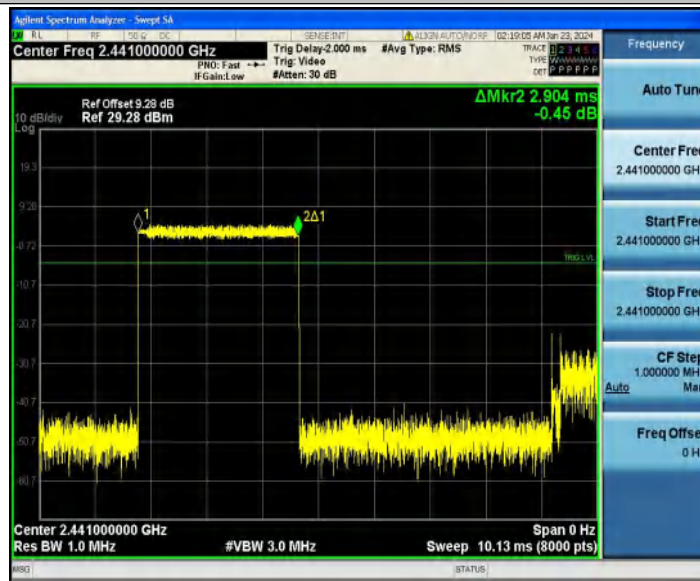
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



Appendix F: Number of hopping channels

Test Result

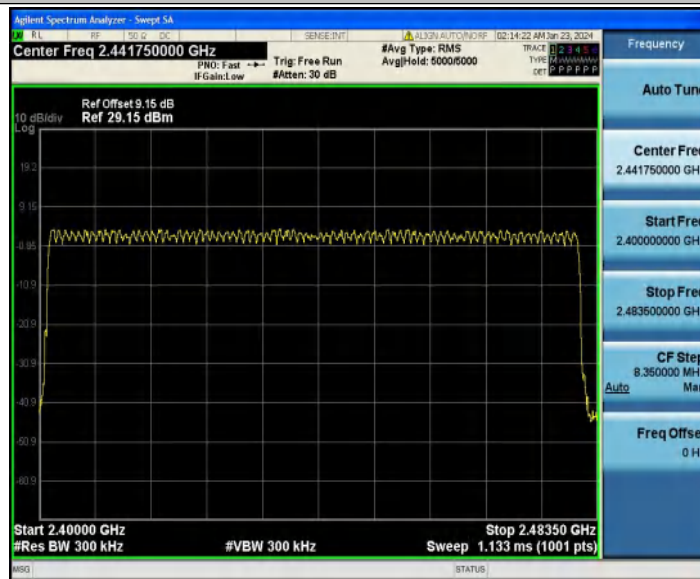
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

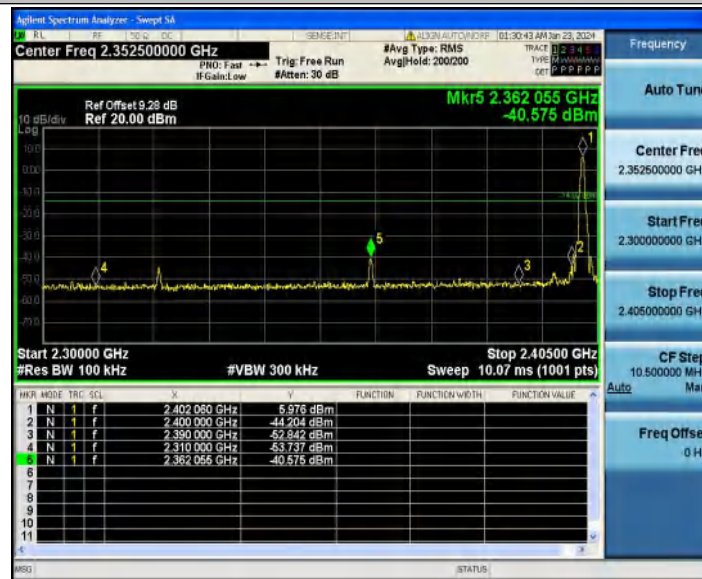
Appendix G: Band edge measurements

Test Result

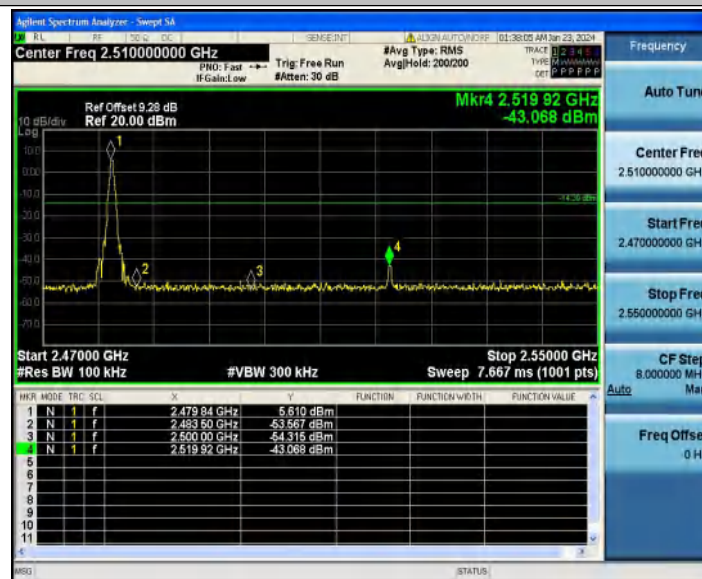
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.98	-40.58	≤ -14.02	PASS
		High	2480	5.61	-43.07	≤ -14.39	PASS
		Low	Hop_2402	2.18	-44.27	≤ -17.82	PASS
		High	Hop_2480	2.85	-43.76	≤ -17.15	PASS
2DH5	Ant1	Low	2402	6.26	-40.77	≤ -13.74	PASS
		High	2480	5.82	-43.63	≤ -14.18	PASS
		Low	Hop_2402	-0.37	-43.67	≤ -20.37	PASS
		High	Hop_2480	0.24	-46.64	≤ -19.76	PASS
3DH5	Ant1	Low	2402	6.25	-41.56	≤ -13.76	PASS
		High	2480	5.90	-44.51	≤ -14.1	PASS
		Low	Hop_2402	-0.82	-45.11	≤ -20.82	PASS
		High	Hop_2480	0.17	-46.72	≤ -19.83	PASS

Test Graphs

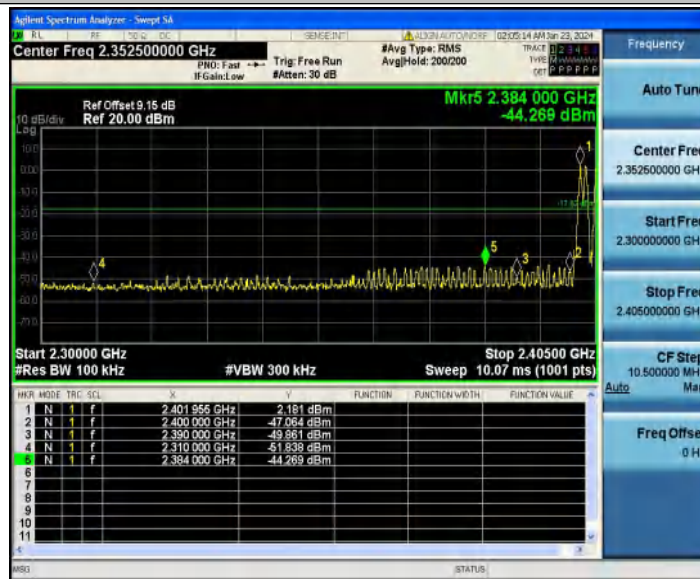
DH5_Ant1_Low_2402



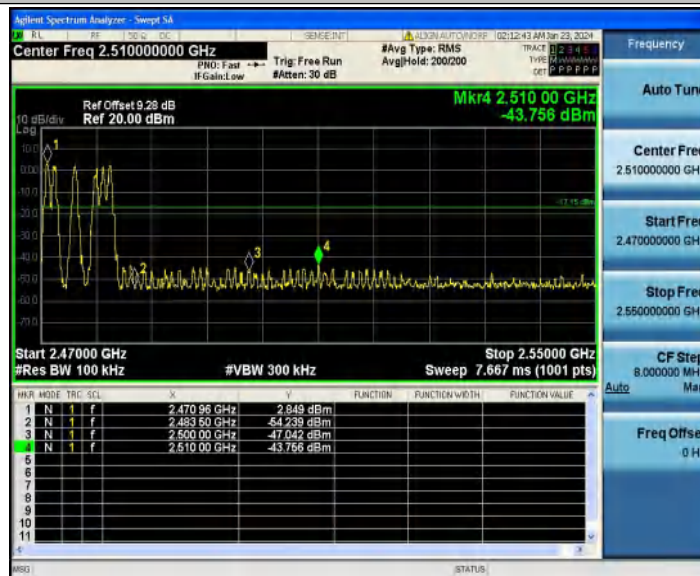
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



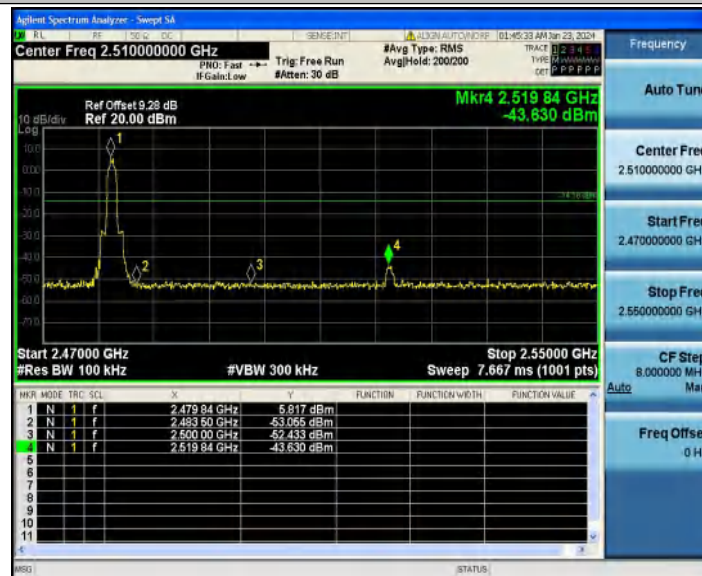
DH5_Ant1_High_Hop_2480



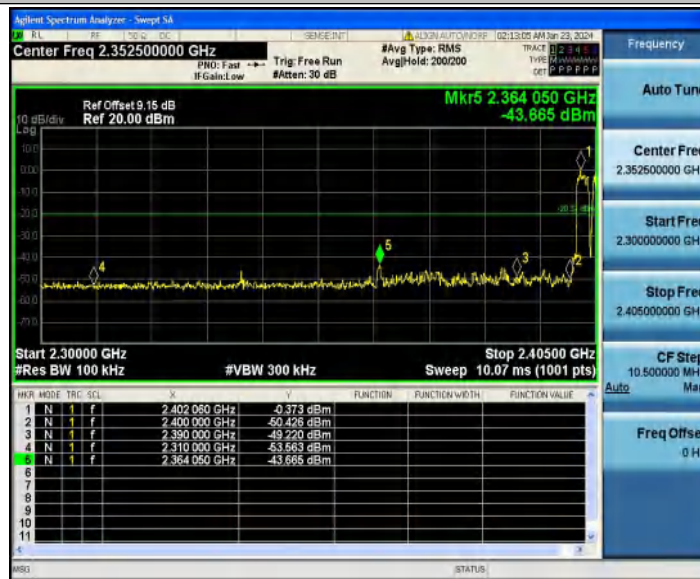
2DH5_Ant1_Low_2402



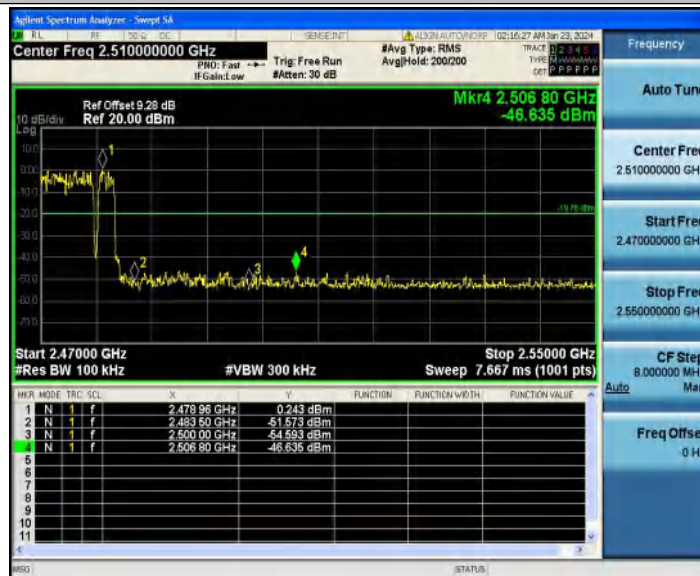
2DH5_Ant1_High_2480



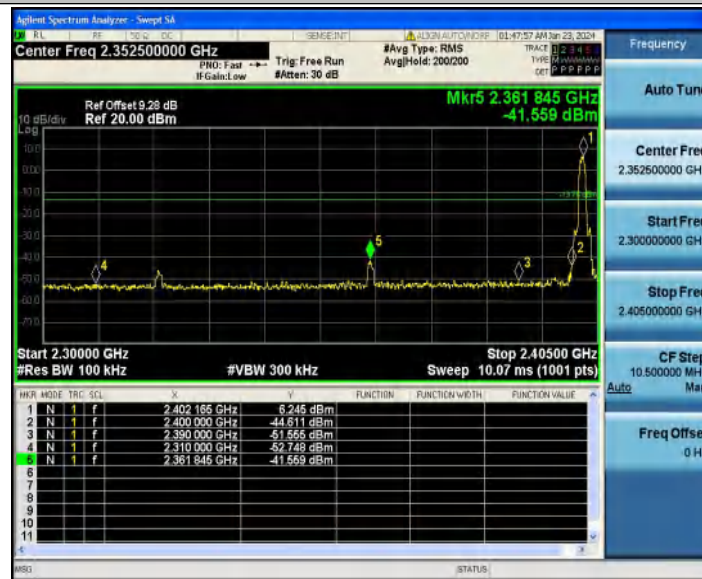
2DH5_Ant1_Low_Hop_2402



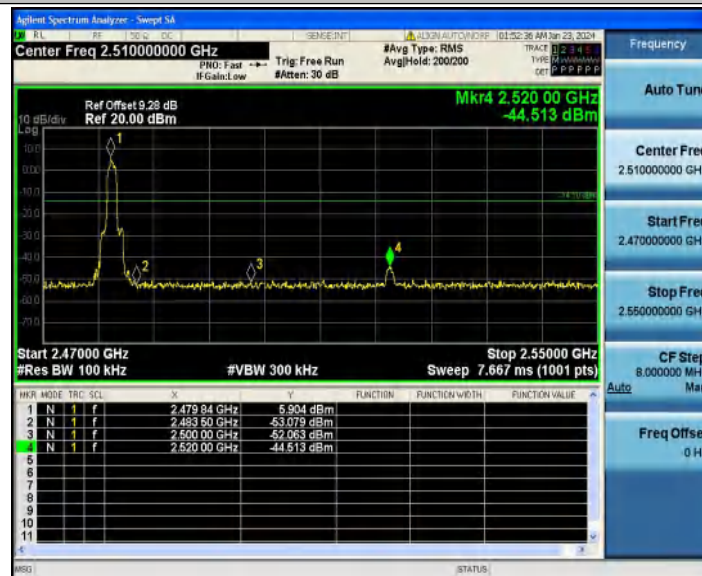
2DH5_Ant1_High_Hop_2480



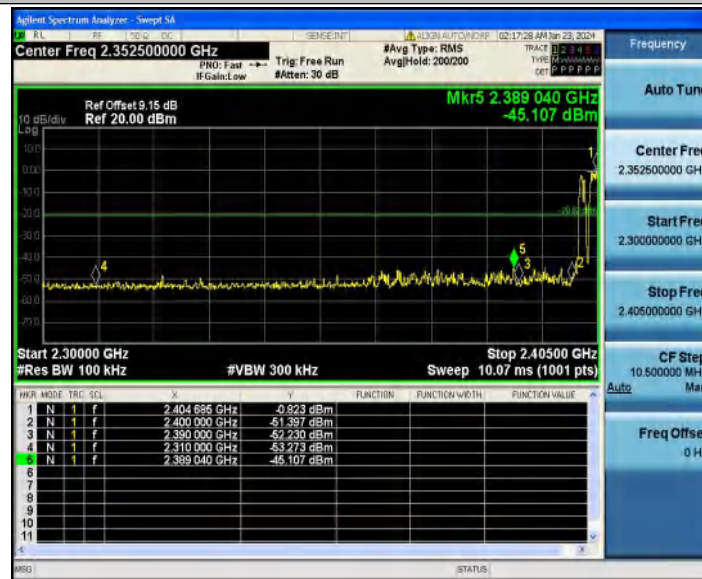
3DH5_Ant1_Low_2402



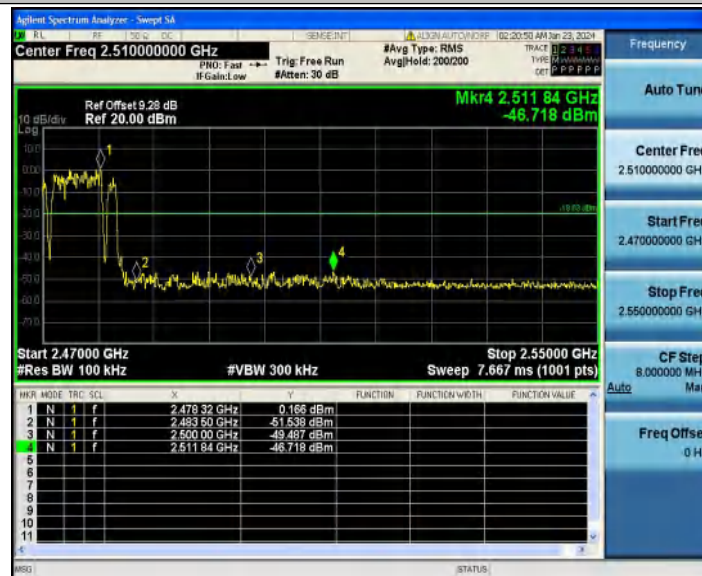
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

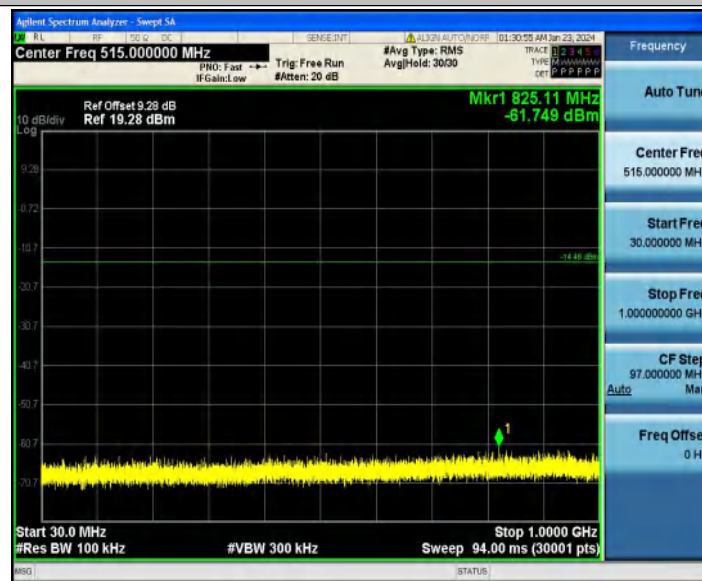
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-61.75	≤-14.48	PASS
			1000~26500	5.52	-38.36	≤-14.48	PASS
		2441	Reference	6.24	6.24	---	PASS
			30~1000	6.24	-62.17	≤-13.76	PASS
			1000~26500	6.24	-40.09	≤-13.76	PASS
		2480	Reference	5.08	5.08	---	PASS
			30~1000	5.08	-62.34	≤-14.92	PASS
			1000~26500	5.08	-43.77	≤-14.92	PASS
2DH5	Ant1	2402	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-62.34	≤-17.62	PASS
			1000~26500	2.38	-42.65	≤-17.62	PASS
		2441	Reference	6.26	6.26	---	PASS
			30~1000	6.26	-61.84	≤-13.74	PASS
			1000~26500	6.26	-44.05	≤-13.74	PASS
		2480	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-62.42	≤-17.95	PASS
			1000~26500	2.05	-43.77	≤-17.95	PASS
3DH5	Ant1	2402	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-60.97	≤-16.7	PASS
			1000~26500	3.30	-39.63	≤-16.7	PASS
		2441	Reference	6.22	6.22	---	PASS
			30~1000	6.22	-62.1	≤-13.78	PASS
			1000~26500	6.22	-42.77	≤-13.78	PASS
		2480	Reference	5.44	5.44	---	PASS
			30~1000	5.44	-62.1	≤-14.56	PASS
			1000~26500	5.44	-44.55	≤-14.56	PASS

Test Graphs

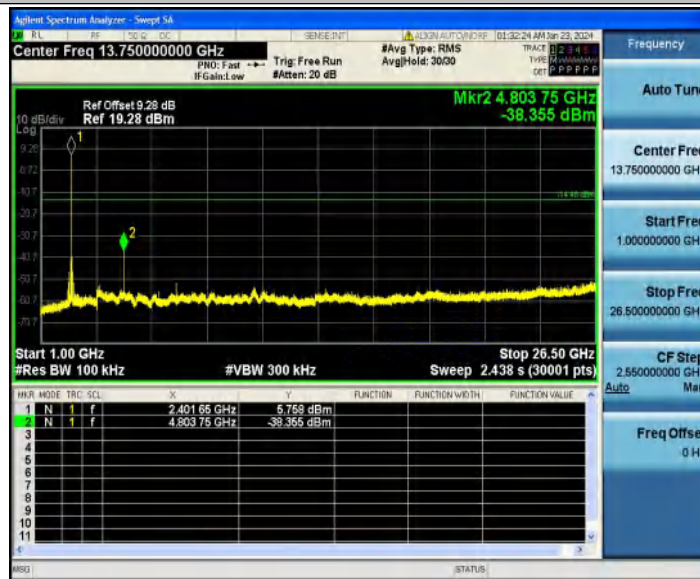
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



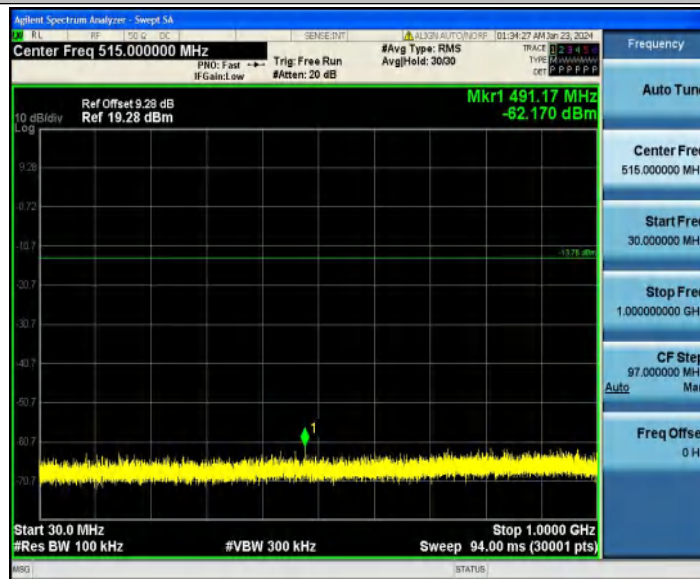
DH5_Ant1_2402_1000~26500



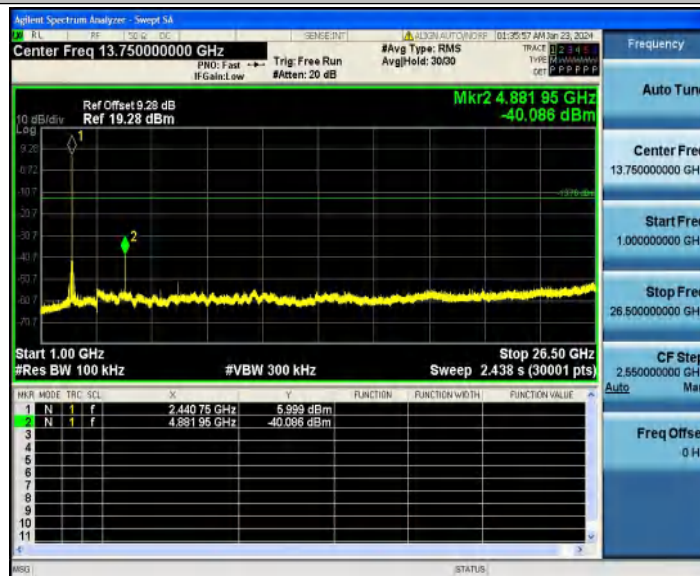
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



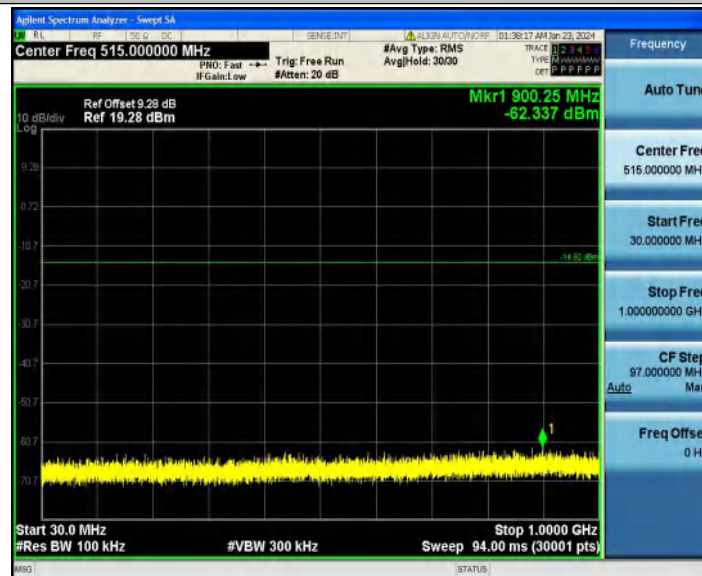
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



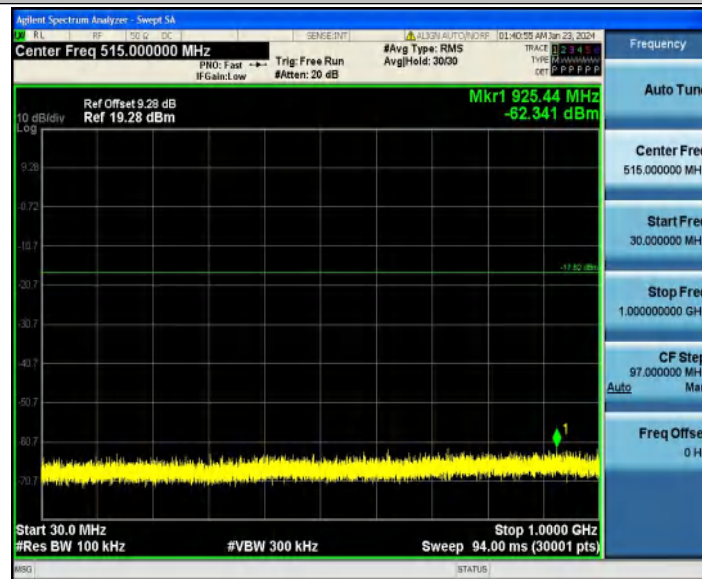
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



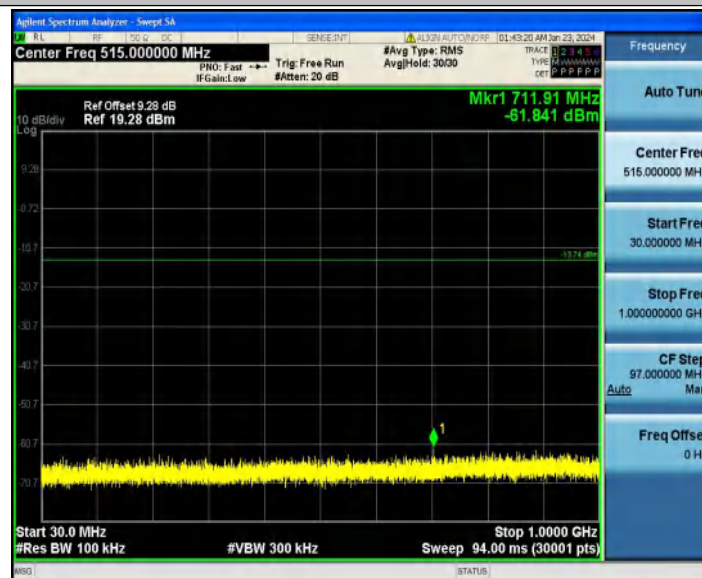
2DH5_Ant1_2402_1000~26500



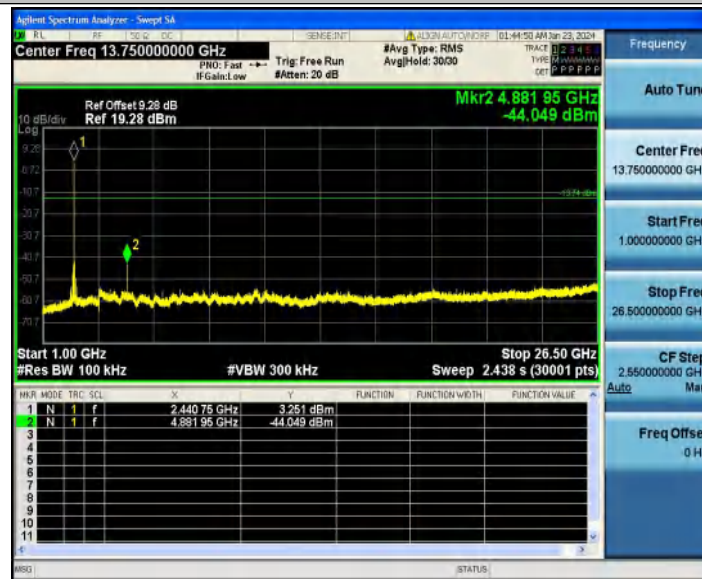
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



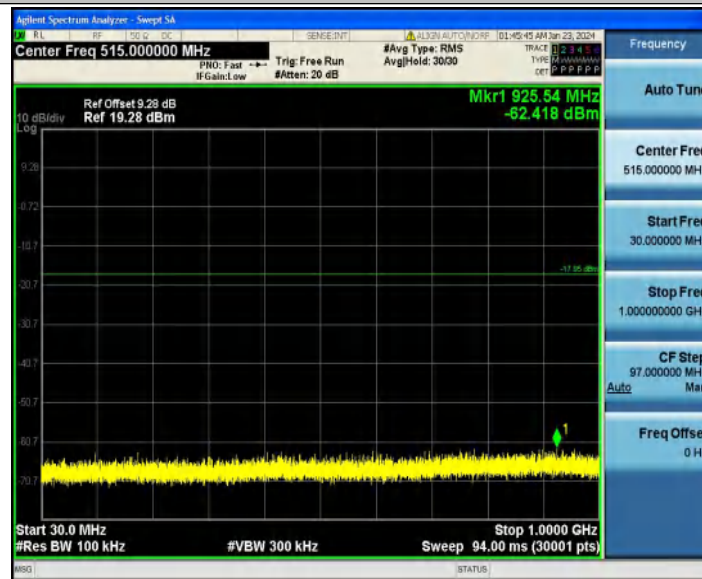
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



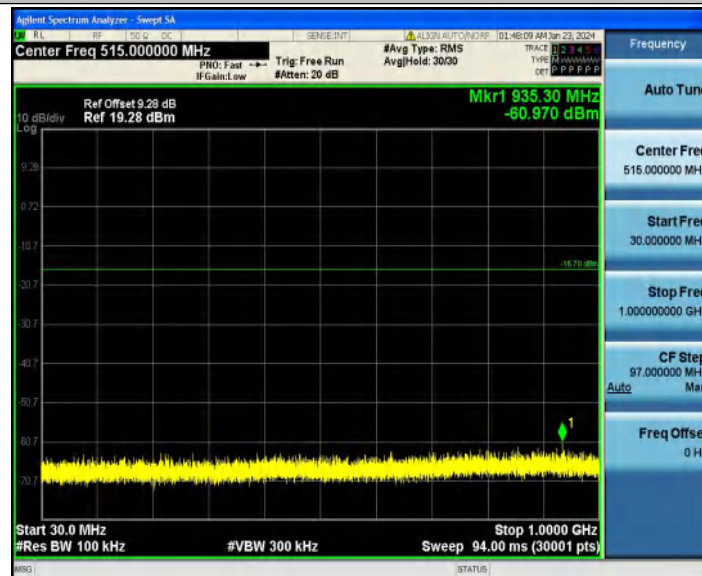
2DH5_Ant1_2480_1000~26500



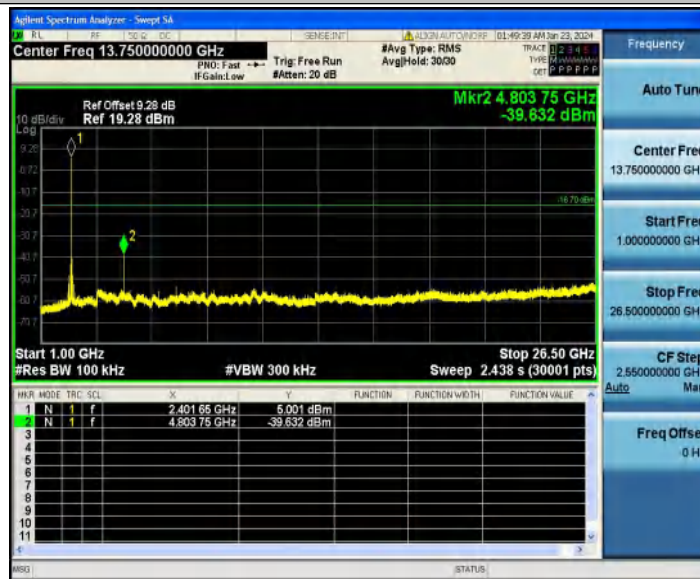
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



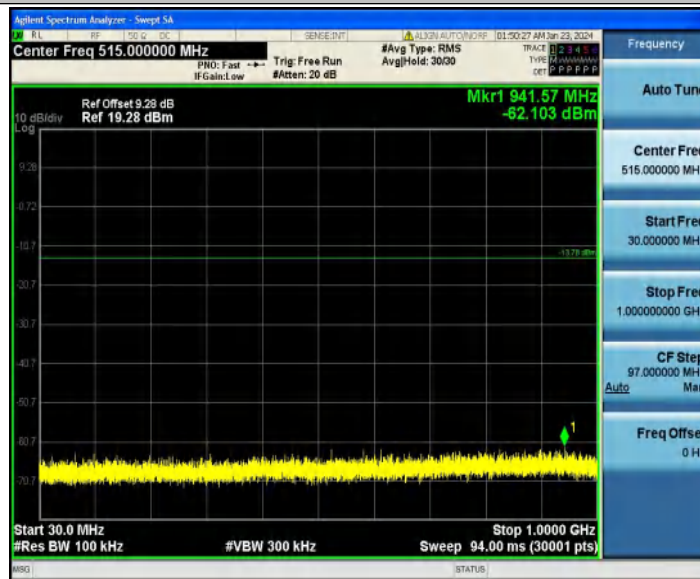
3DH5_Ant1_2402_1000~26500



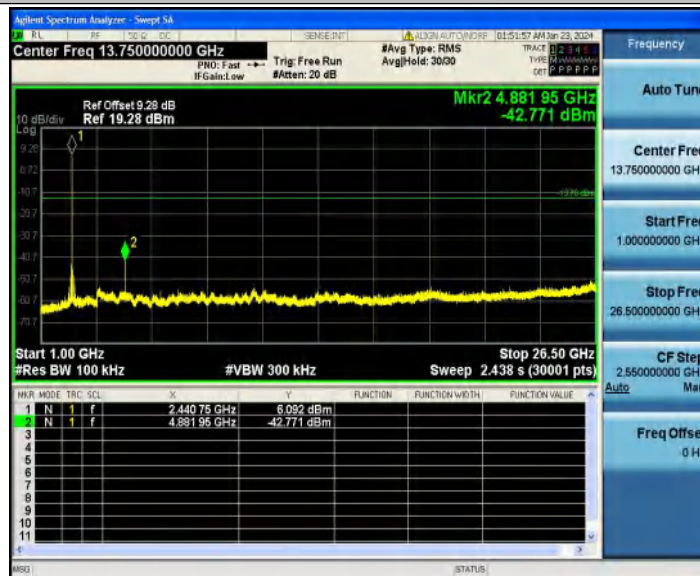
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



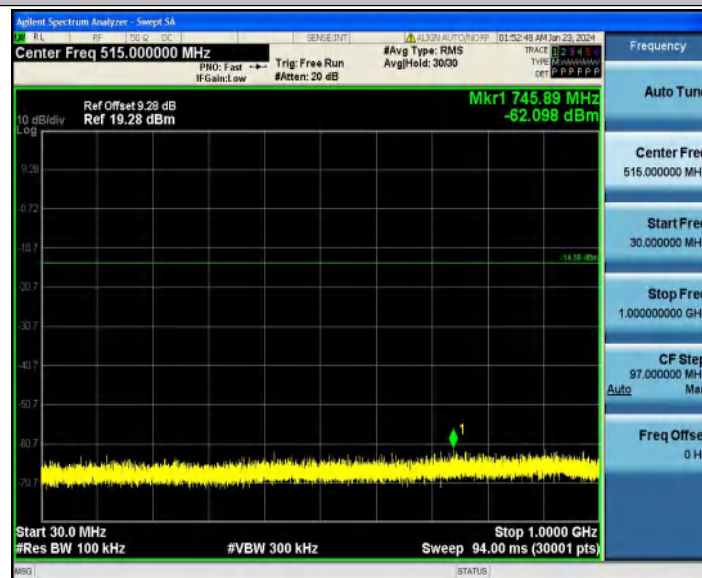
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000





Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.77	0.7613	76.13	1.18	---	---
		2441	2.87	3.77	0.7613	76.13	1.18	---	---
		2480	2.87	3.77	0.7613	76.13	1.18	---	---
2DH5	Ant1	2402	2.88	3.78	0.7619	76.19	1.18	---	---
		2441	2.88	3.79	0.7599	75.99	1.19	---	---
		2480	2.88	3.79	0.7599	75.99	1.19	---	---
3DH5	Ant1	2402	2.89	3.79	0.7625	76.25	1.18	---	---
		2441	2.89	3.79	0.7625	76.25	1.18	---	---
		2480	2.88	3.78	0.7619	76.19	1.18	---	---

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



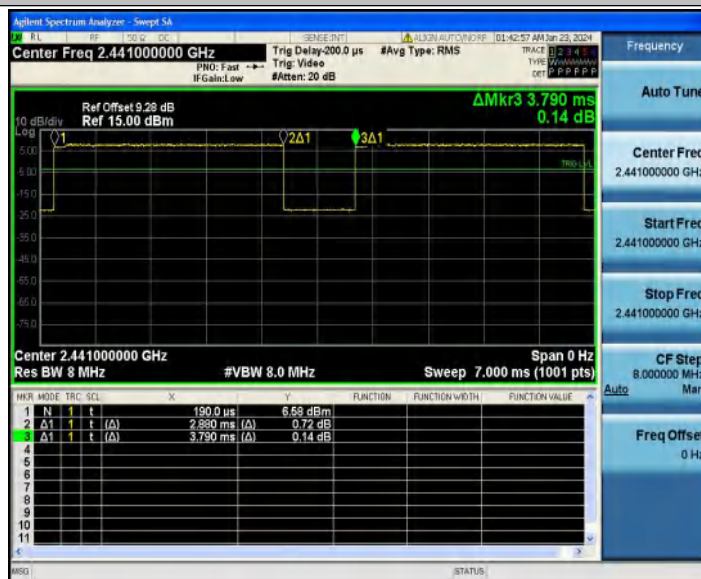
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

