Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: smart phone

Trade Mark: YEZZ

Test Model: MAX 3

FCC ID: 2APW4MAX3

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

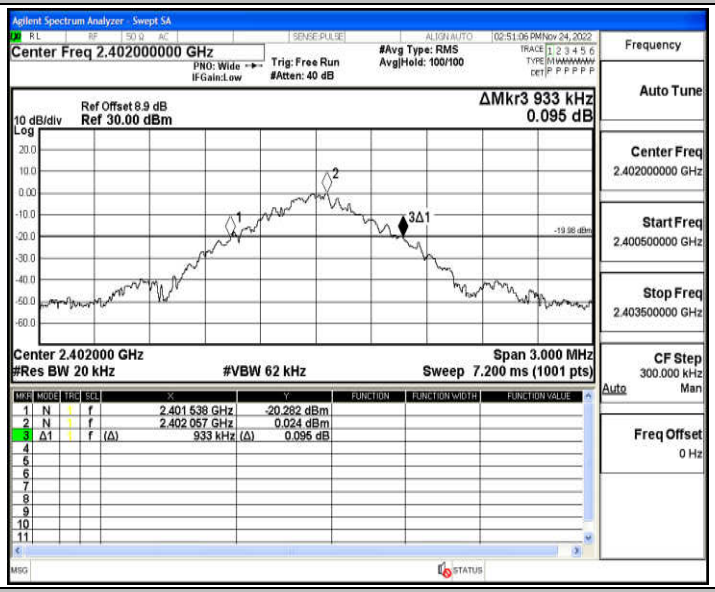
Appendix A: 20dB Emission Bandwidth

Test Result

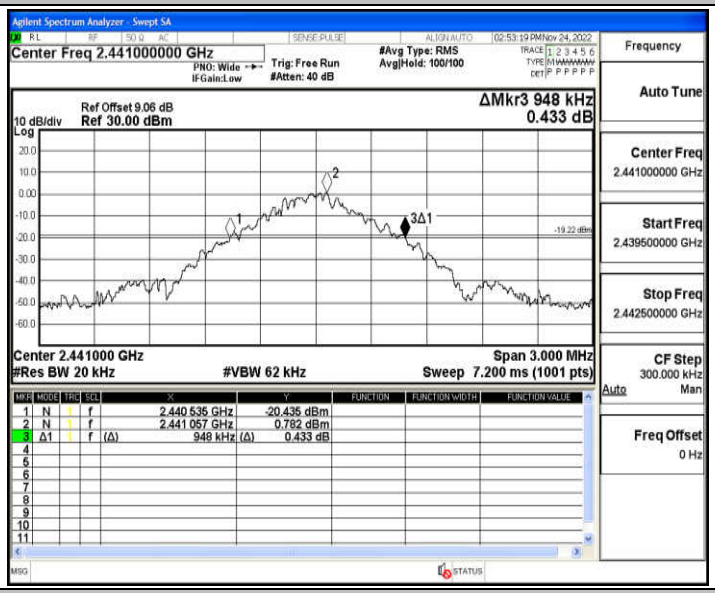
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.538	2402.471	---	---
		2441	0.948	2440.535	2441.483	---	---
		2480	0.948	2479.535	2480.483	---	---
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	---
		2441	1.281	2440.364	2441.645	---	---
		2480	1.311	2479.343	2480.654	---	---
3DH5	Ant1	2402	1.266	2401.361	2402.627	---	---
		2441	1.332	2440.328	2441.660	---	---
		2480	1.275	2479.349	2480.624	---	---

Test Graphs

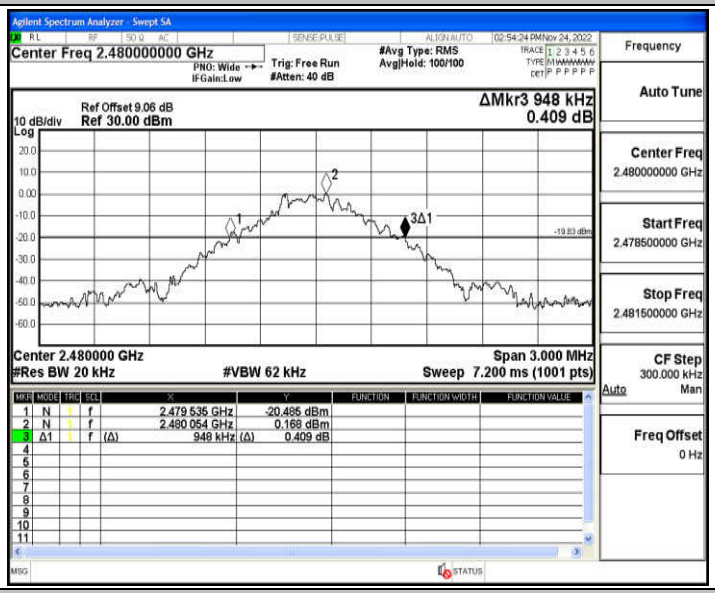
DH5_Ant1_2402



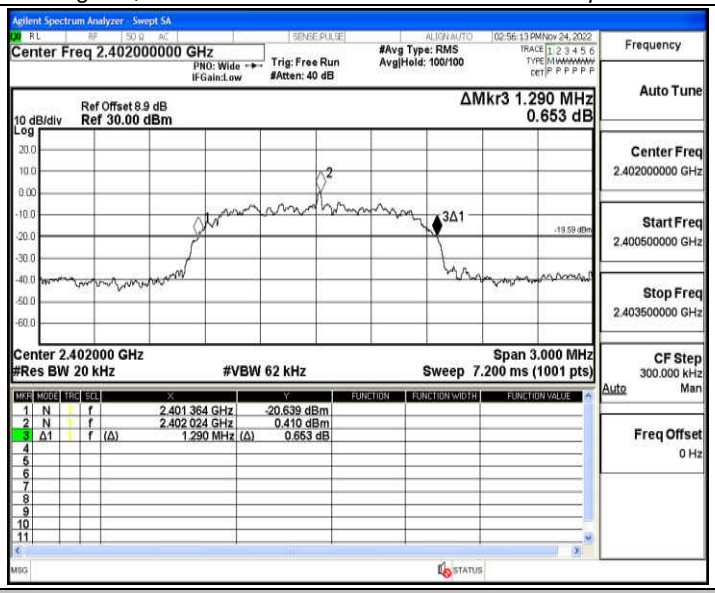
DH5_Ant1_2441



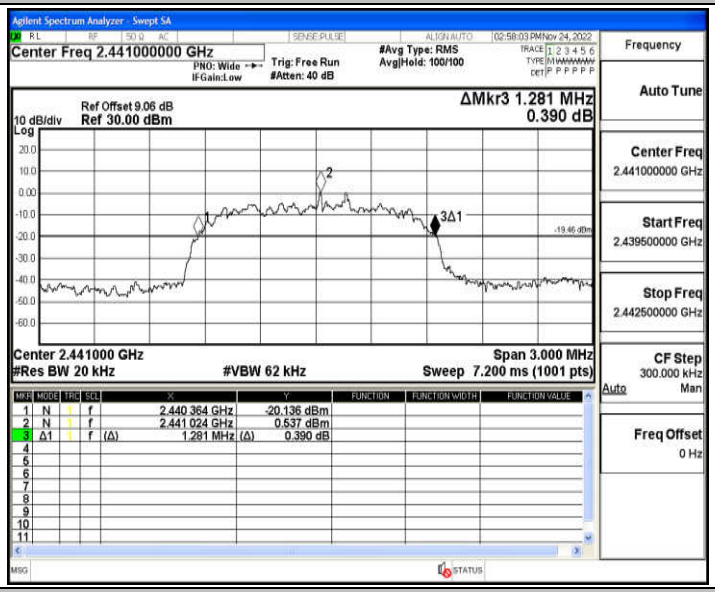
DH5_Ant1_2480



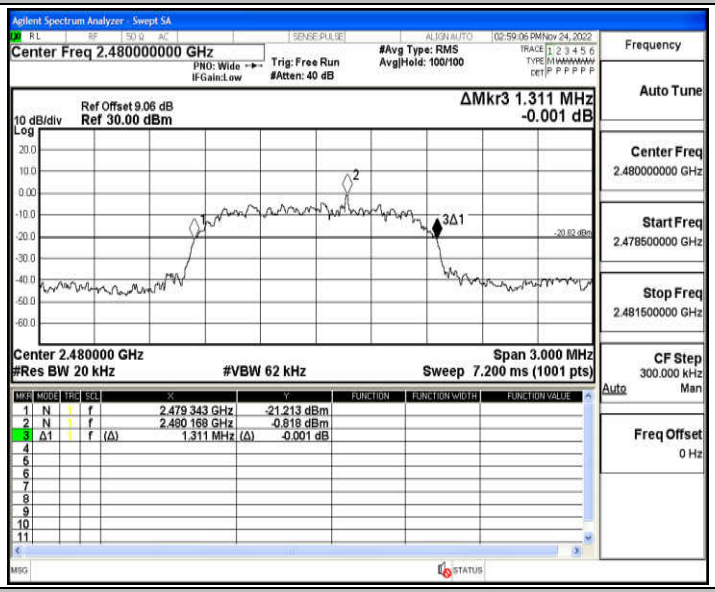
2DH5_Ant1_2402



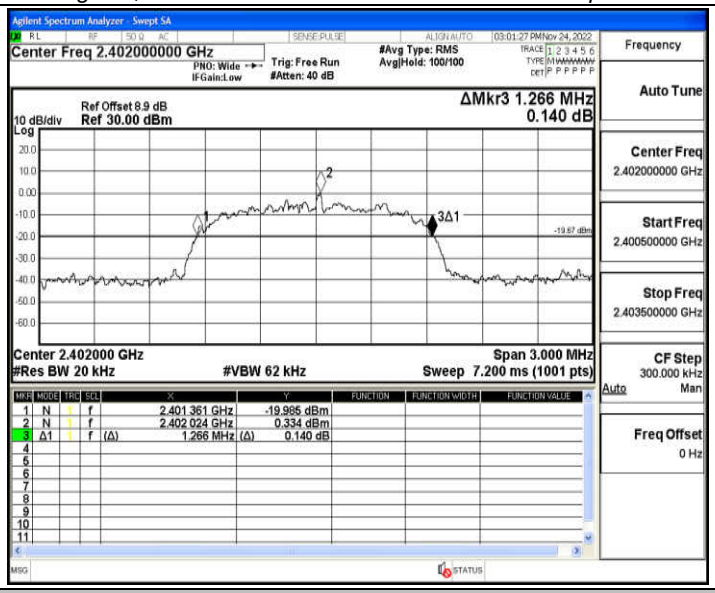
2DH5_Ant1_2441



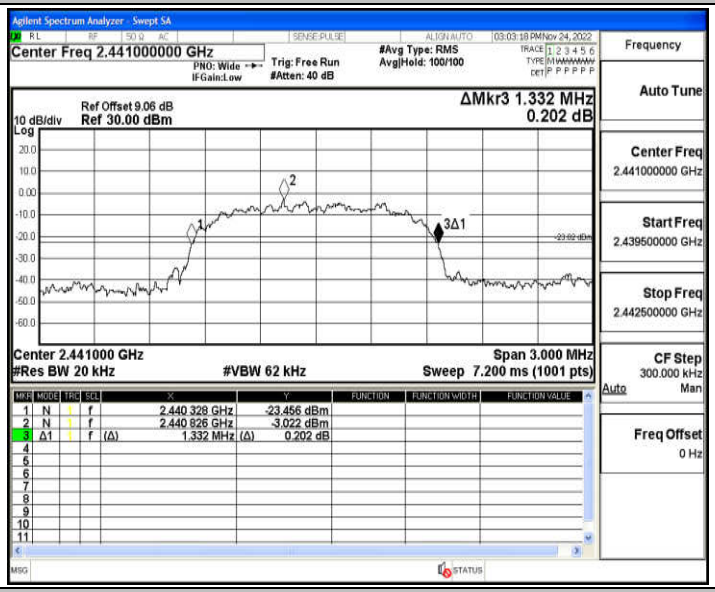
2DH5_Ant1_2480



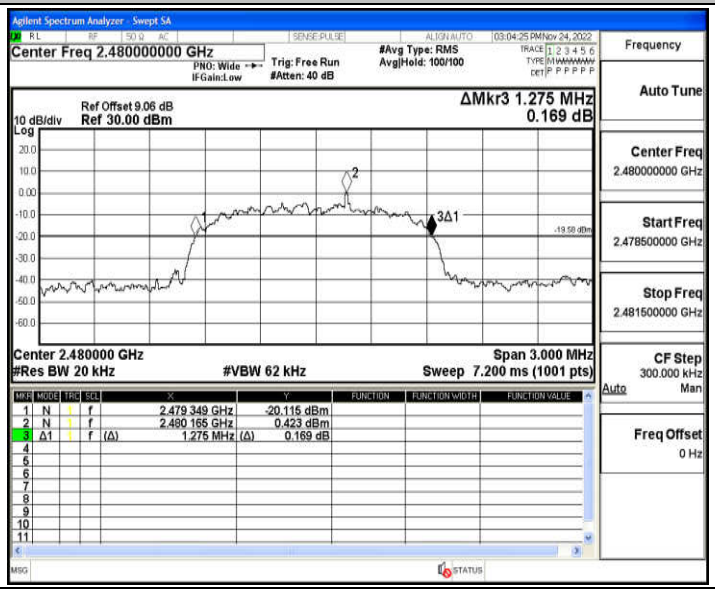
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



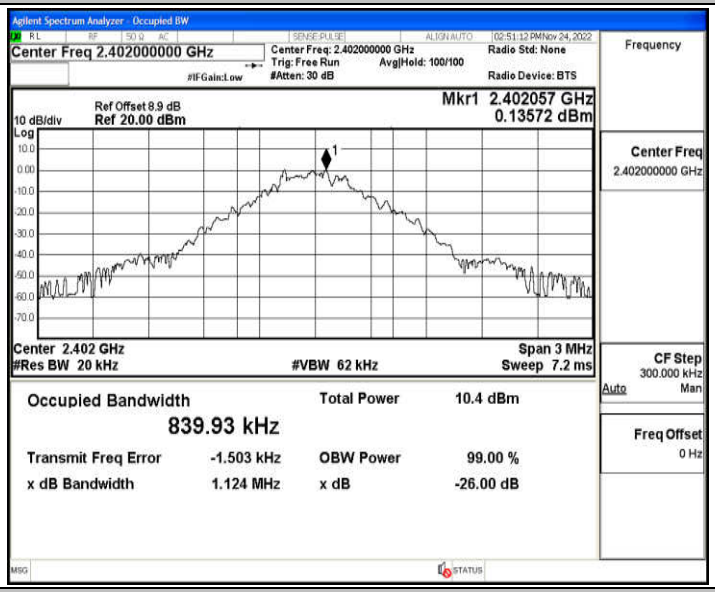
Appendix B: Occupied Channel Bandwidth

Test Result

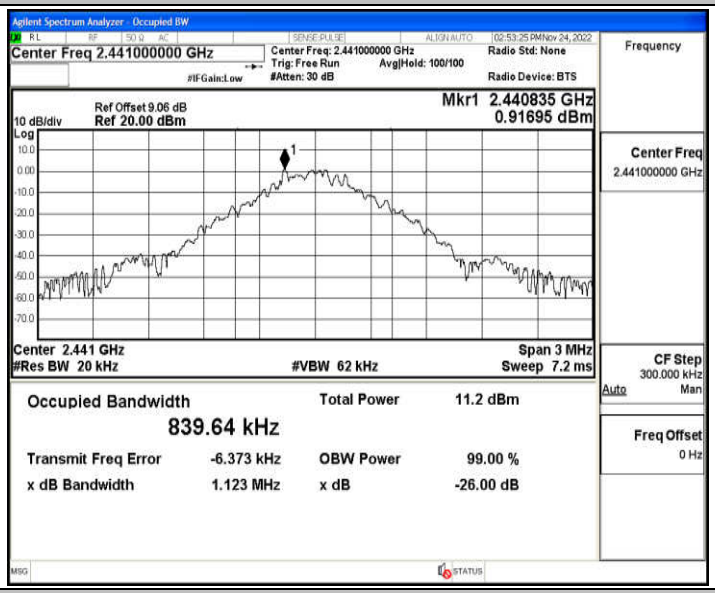
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.83993	2401.5785	2402.4185	---	---
		2441	0.83964	2440.5738	2441.4135	---	---
		2480	0.83581	2479.5756	2480.4114	---	---
2DH5	Ant1	2402	1.1930	2401.4032	2402.5962	---	---
		2441	1.1927	2440.4030	2441.5957	---	---
		2480	1.1835	2479.4043	2480.5878	---	---
3DH5	Ant1	2402	1.2050	2401.3877	2402.5927	---	---
		2441	1.1854	2440.4012	2441.5866	---	---
		2480	1.1956	2479.3924	2480.5880	---	---

Test Graphs

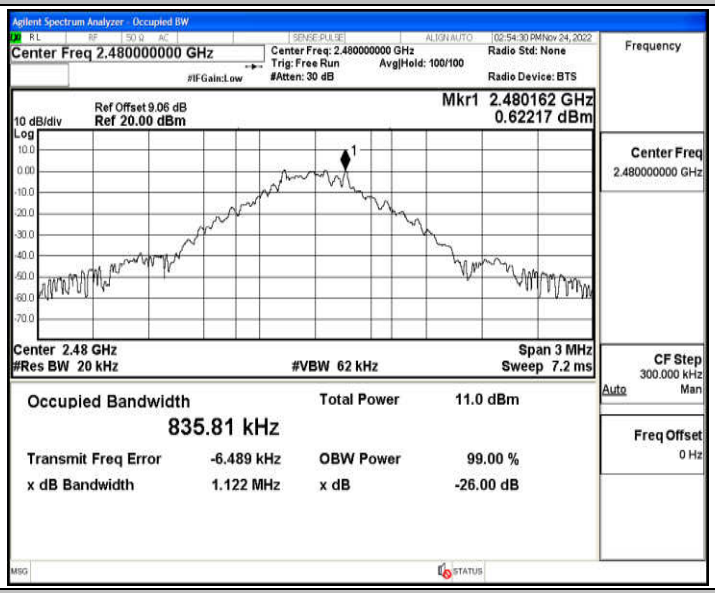
DH5_Ant1_2402



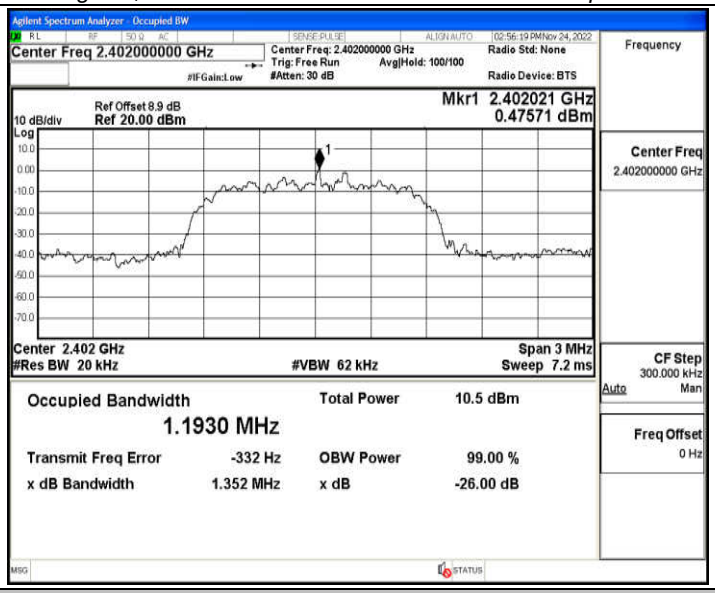
DH5_Ant1_2441



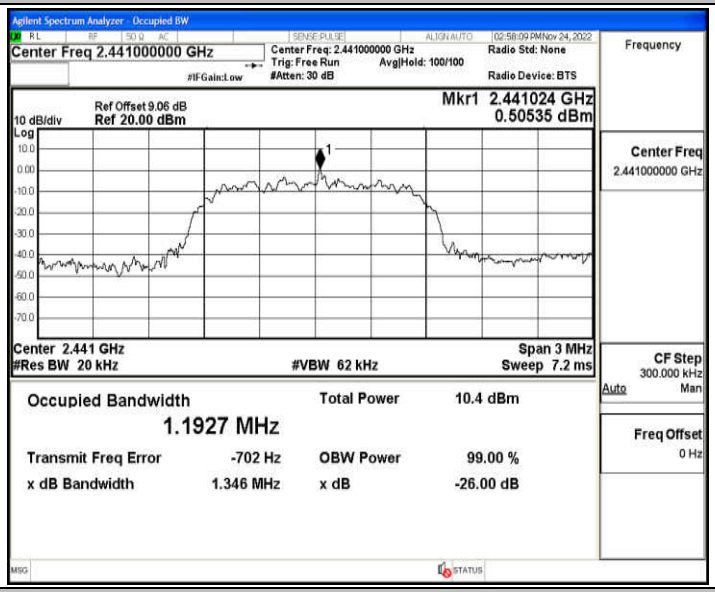
DH5_Ant1_2480



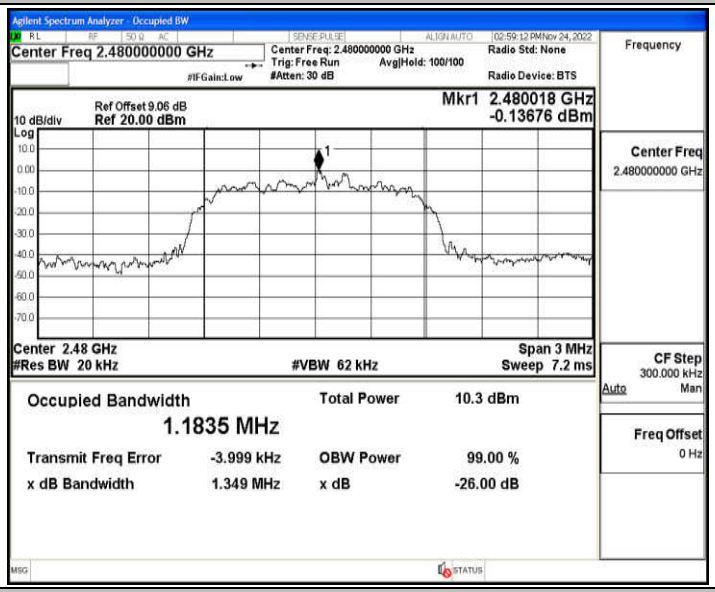
2DH5_Ant1_2402



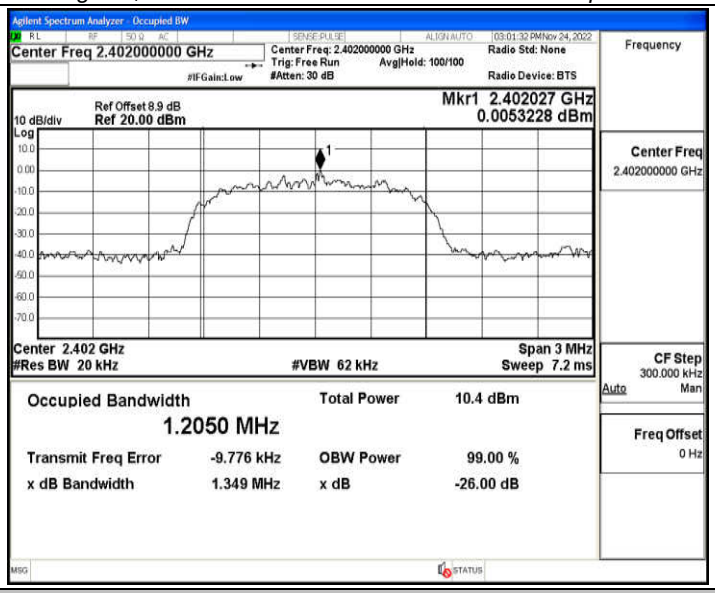
2DH5_Ant1_2441



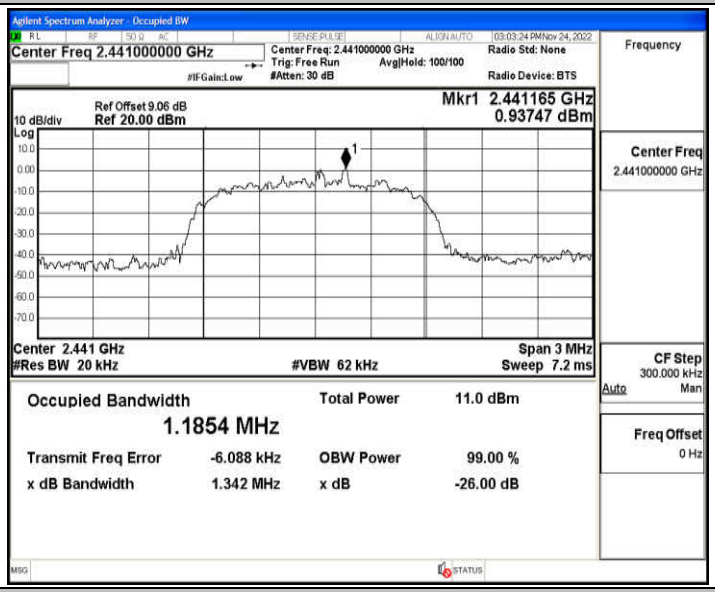
2DH5_Ant1_2480



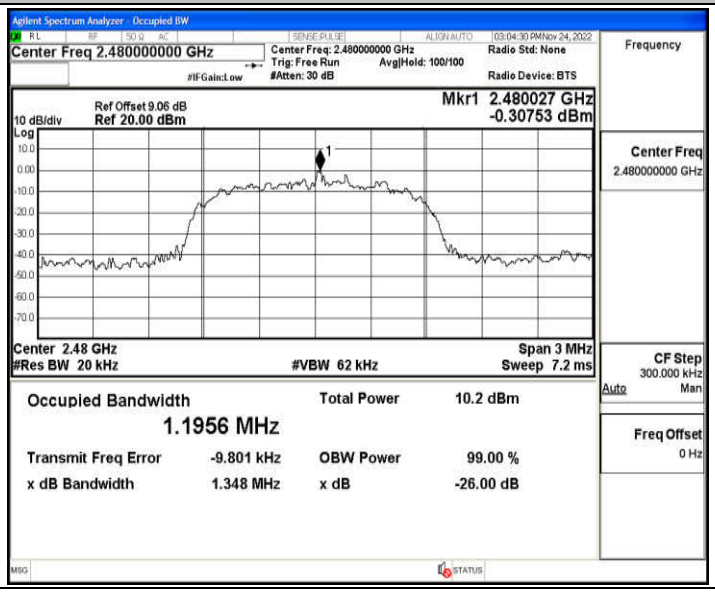
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



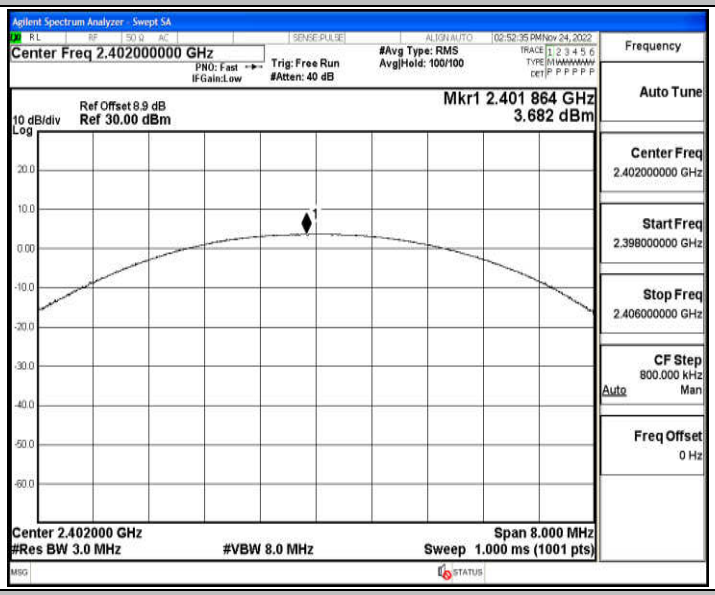
Appendix C: Maximum Peak conducted output power

Test Result

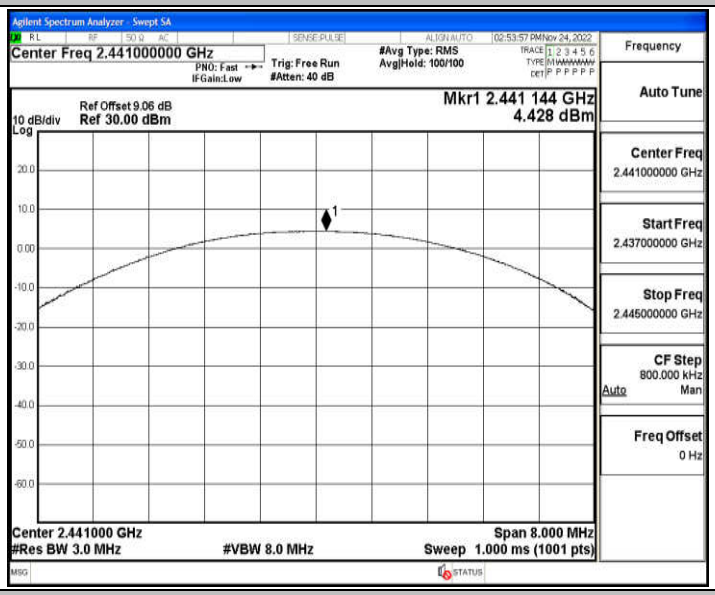
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.68	≤30.0	PASS
		2441	4.43	≤30.0	PASS
		2480	3.96	≤30.0	PASS
2DH5	Ant1	2402	5.67	≤20.97	PASS
		2441	6.15	≤20.97	PASS
		2480	5.63	≤20.97	PASS
3DH5	Ant1	2402	5.91	≤20.97	PASS
		2441	6.5	≤20.97	PASS
		2480	5.9	≤20.97	PASS

Test Graphs

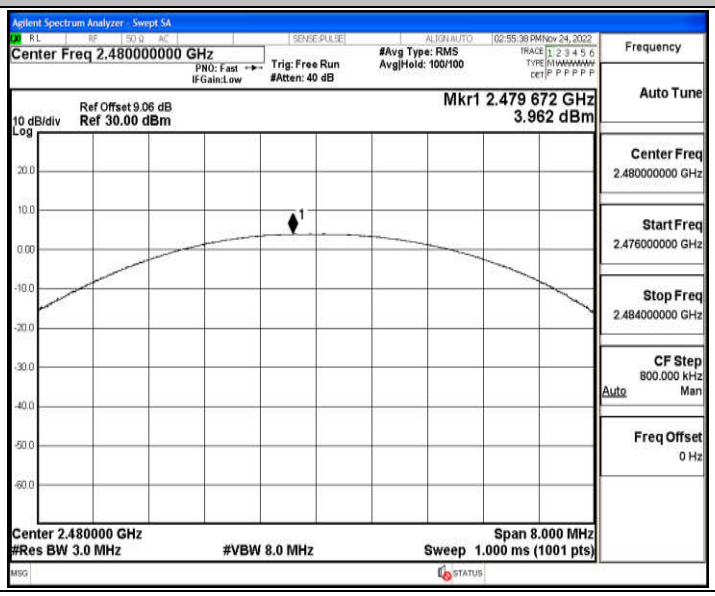
DH5_Ant1_2402



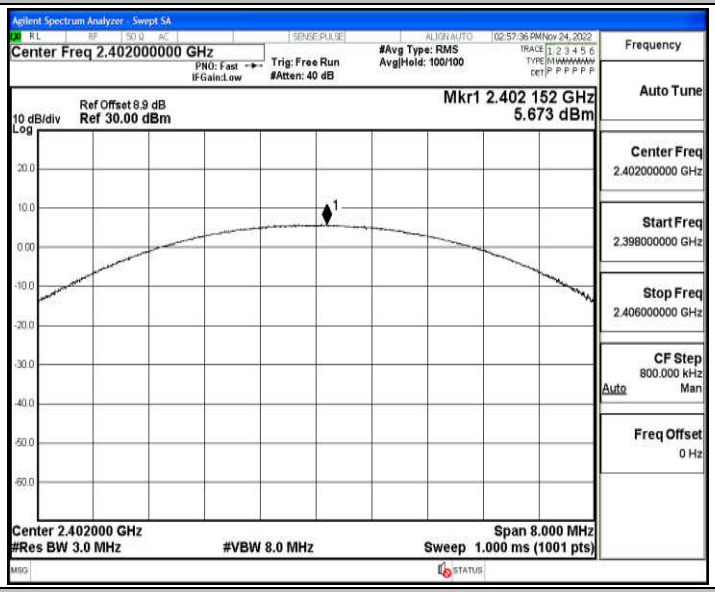
DH5_Ant1_2441



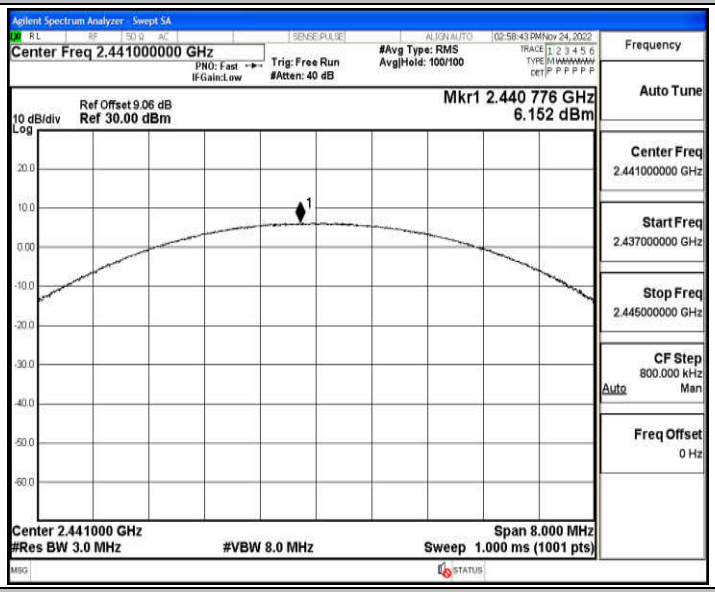
DH5_Ant1_2480



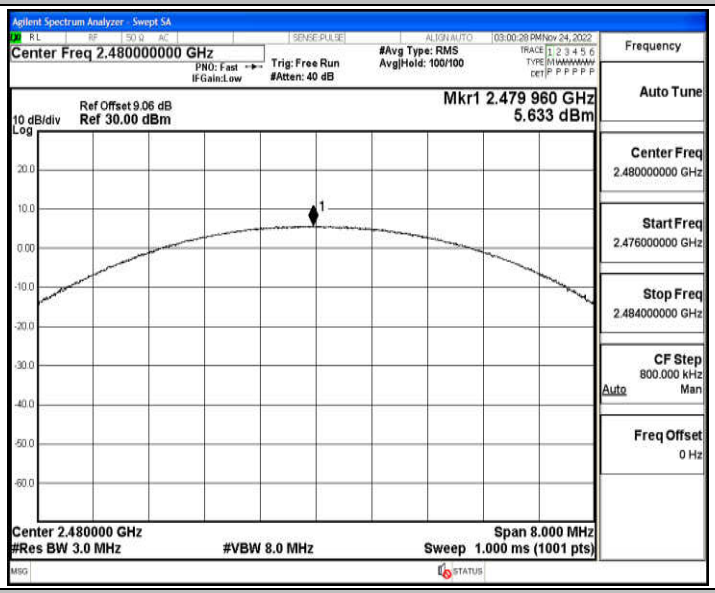
2DH5_Ant1_2402



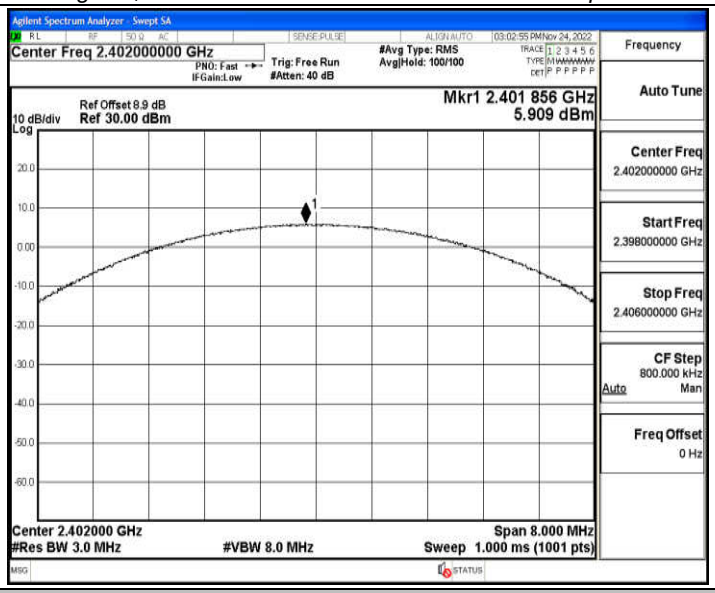
2DH5_Ant1_2441



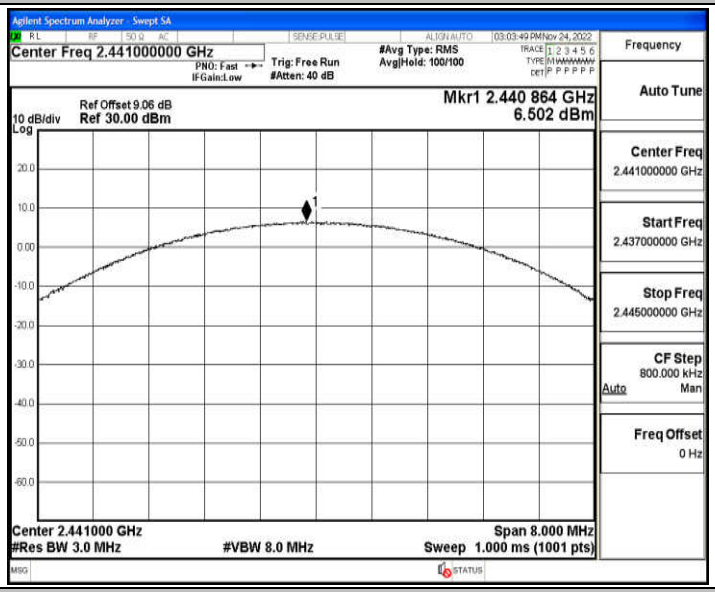
2DH5_Ant1_2480



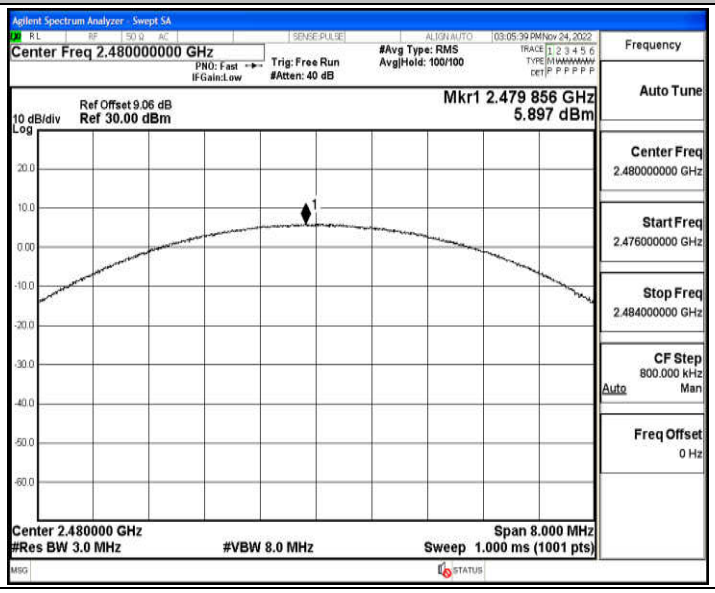
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



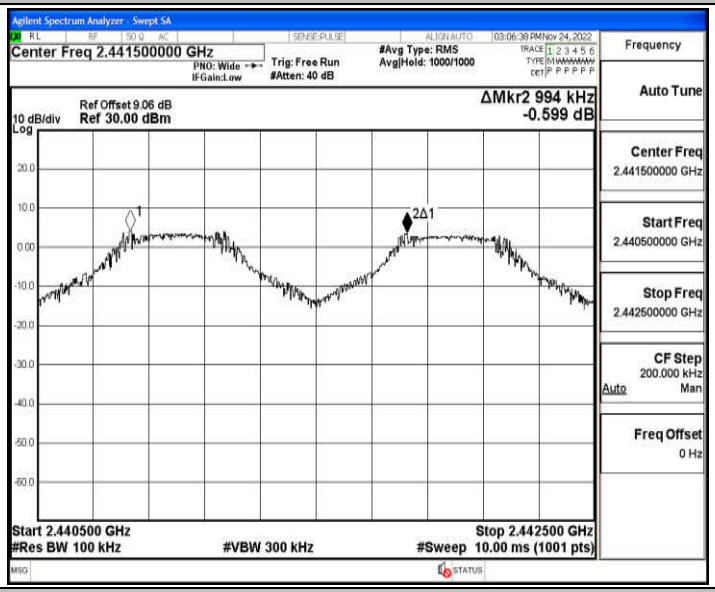
Appendix D: Carrier frequency separation

Test Result

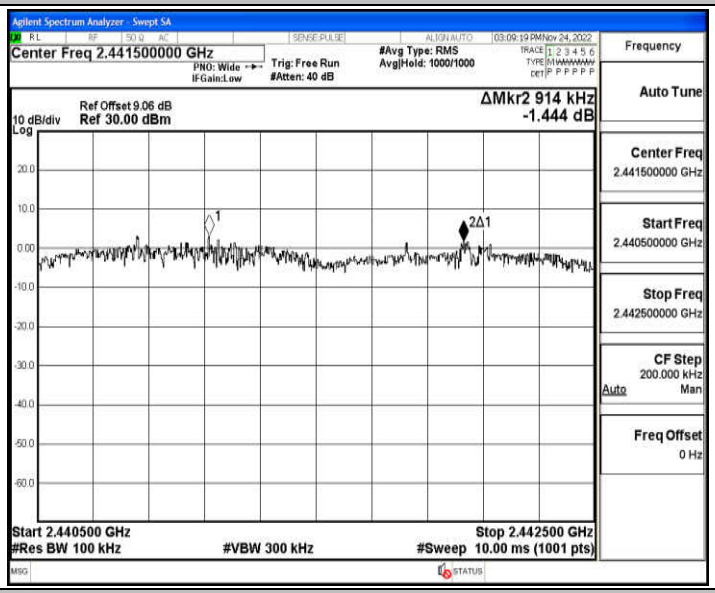
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.948	PASS
2DH5	Ant1	Hop	0.914	≥0.874	PASS
3DH5	Ant1	Hop	1.014	≥0.888	PASS

Test Graphs

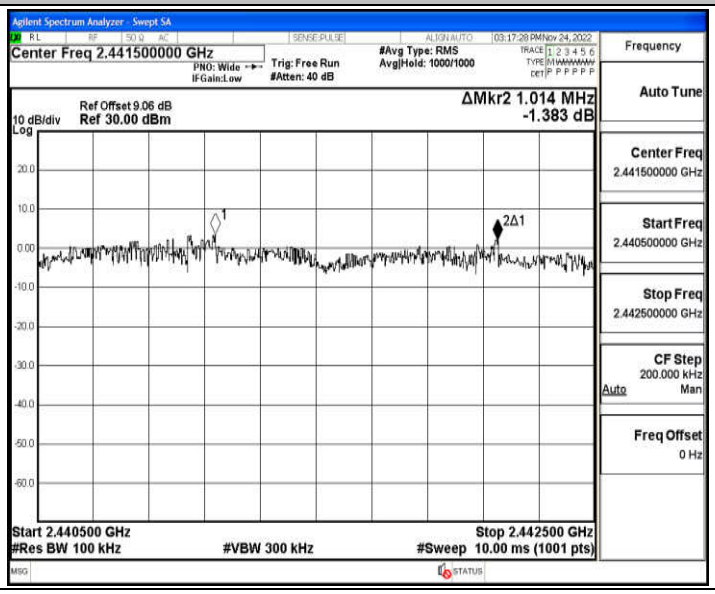
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



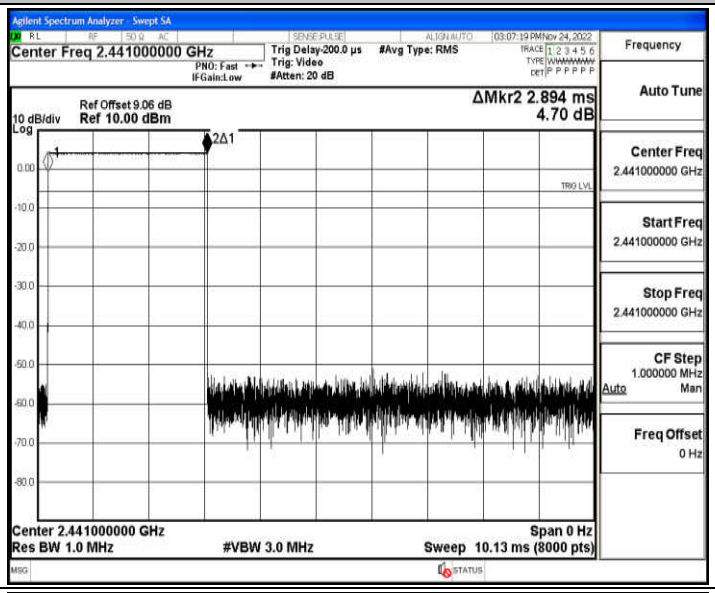
Appendix E: Time of occupancy

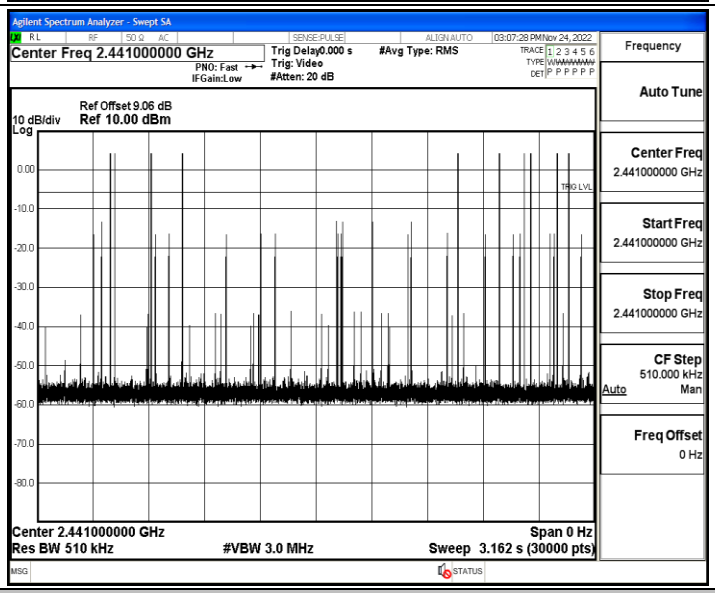
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.894	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.883	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.882	80	0.231	≤0.4	PASS

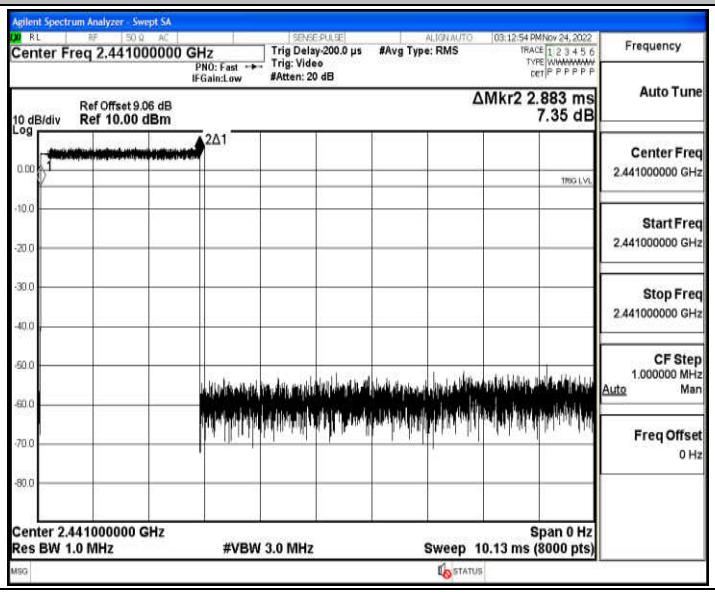
Test Graphs

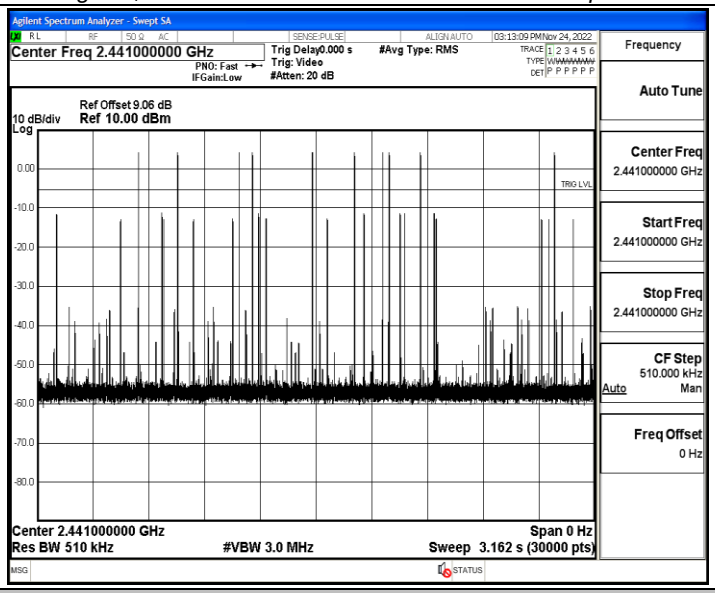
DH5_Ant1_Hop



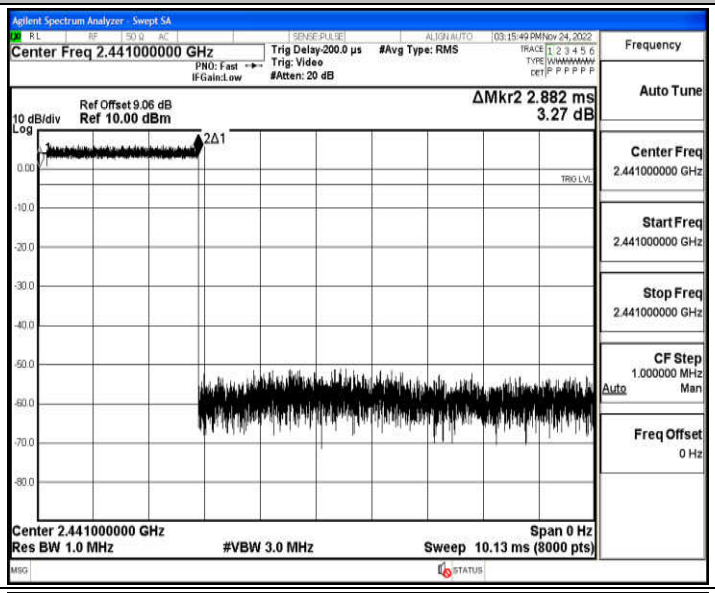


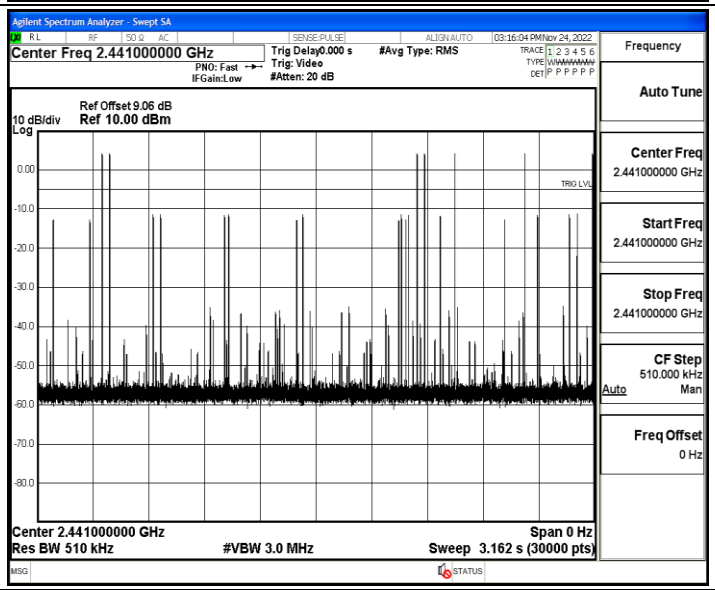
2DH5_Ant1_Hop





3DH5_Ant1_Hop





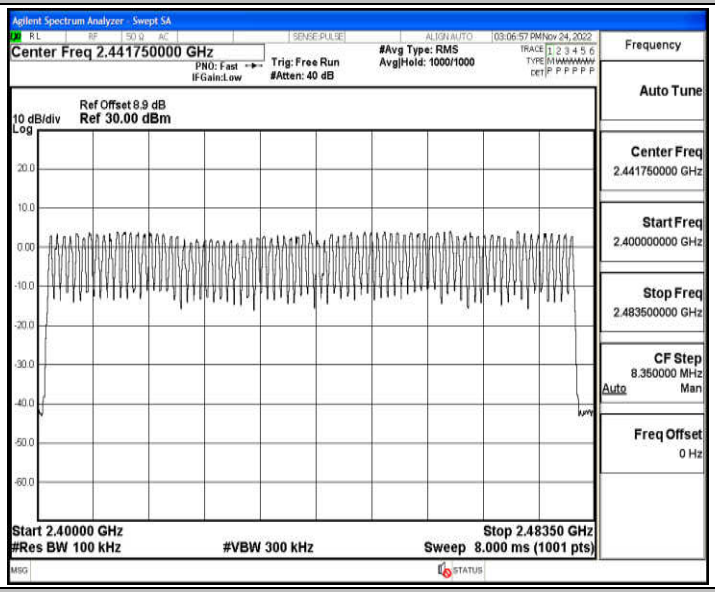
Appendix F: Number of hopping channels

Test Result

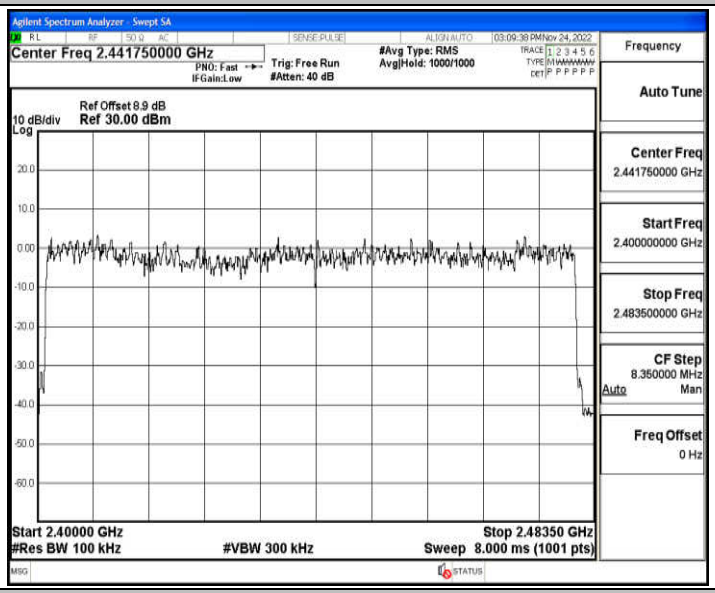
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

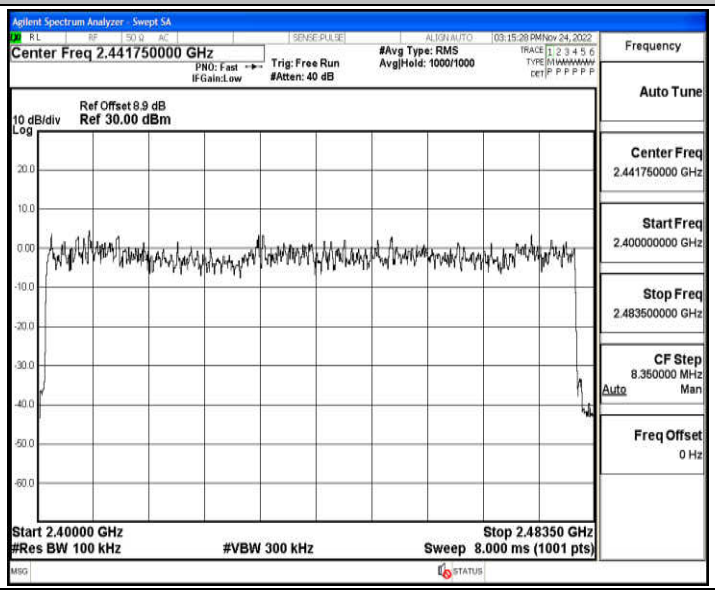
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



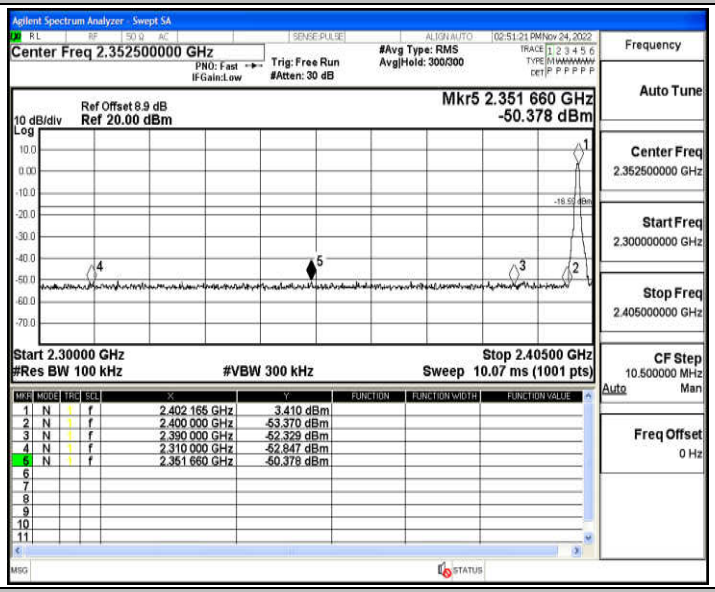
Appendix G: Band edge measurements

Test Result

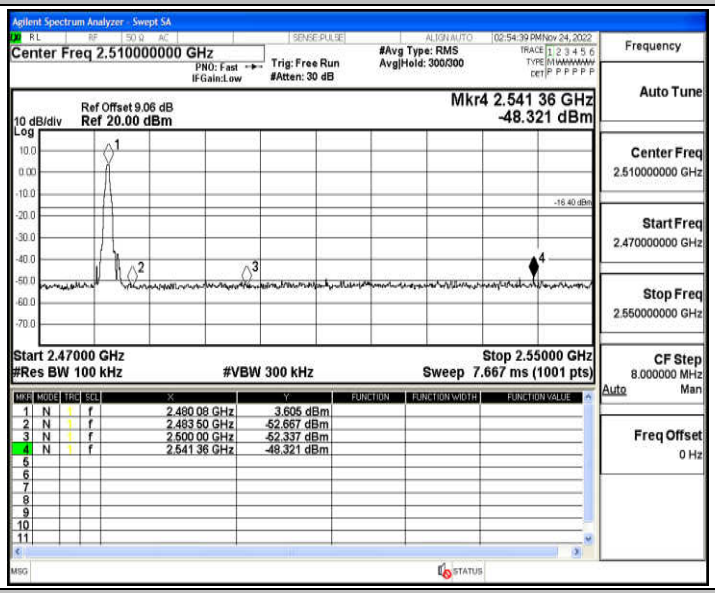
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.41	-50.38	≤-16.59	PASS
		High	2480	3.61	-48.32	≤-16.4	PASS
		Low	Hop_2402	1.90	-51.04	≤-18.11	PASS
		High	Hop_2480	3.75	-49.22	≤-16.25	PASS
2DH5	Ant1	Low	2402	3.78	-41.99	≤-16.22	PASS
		High	2480	1.60	-49.17	≤-18.4	PASS
		Low	Hop_2402	3.51	-50.76	≤-16.49	PASS
		High	Hop_2480	0.56	-48.98	≤-19.45	PASS
3DH5	Ant1	Low	2402	3.86	-43.86	≤-16.14	PASS
		High	2480	3.30	-48.78	≤-16.7	PASS
		Low	Hop_2402	1.11	-50.06	≤-18.89	PASS
		High	Hop_2480	3.63	-49.47	≤-16.37	PASS

Test Graphs

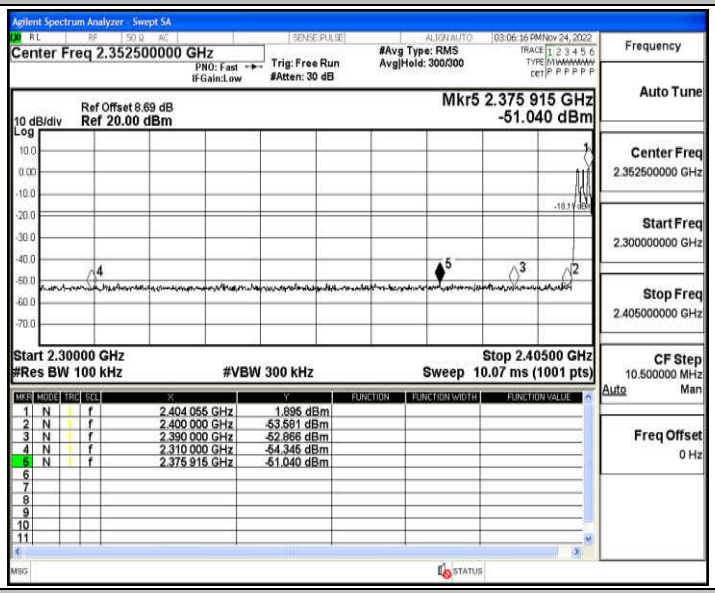
DH5_Ant1_Low_2402



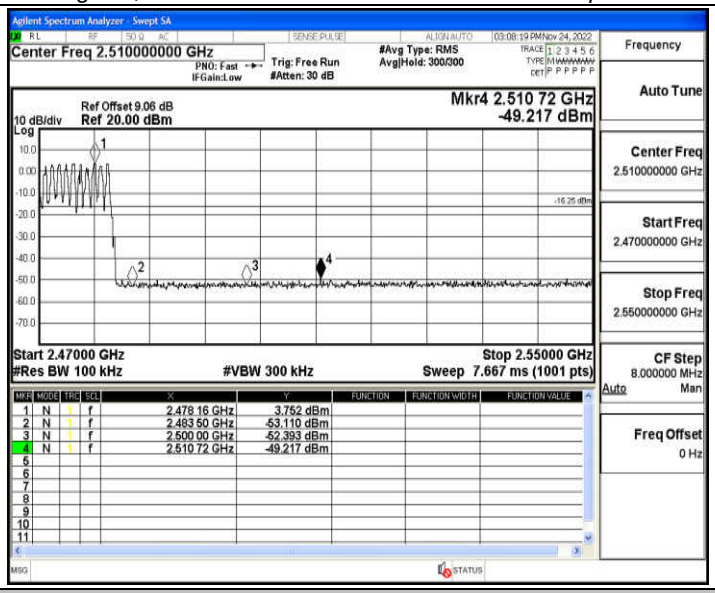
DH5_Ant1_High_2480



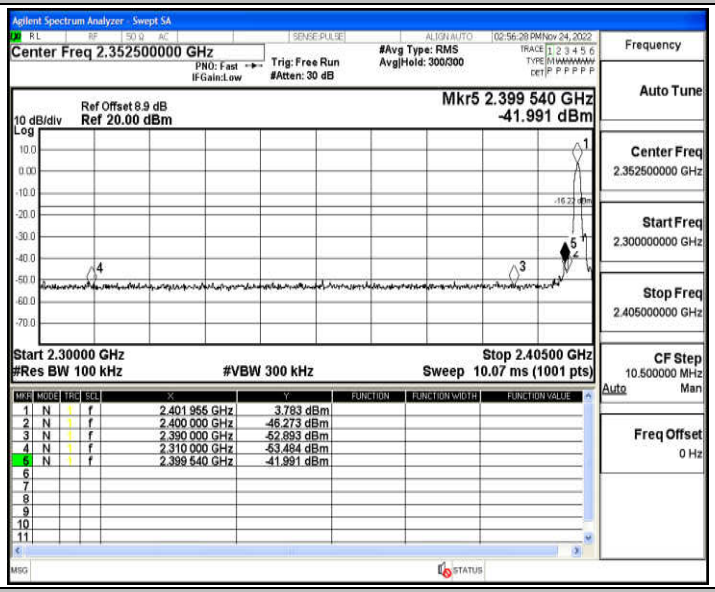
DH5_Ant1_Low_Hop_2402



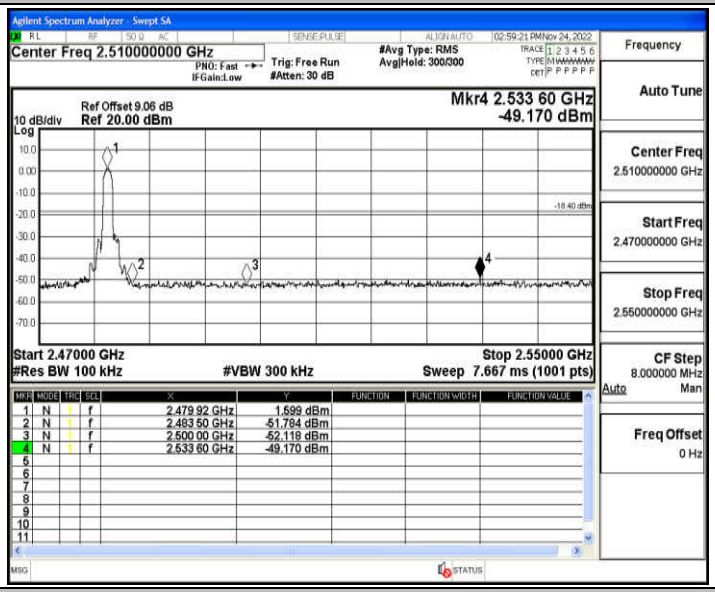
DH5_Ant1_High_Hop_2480



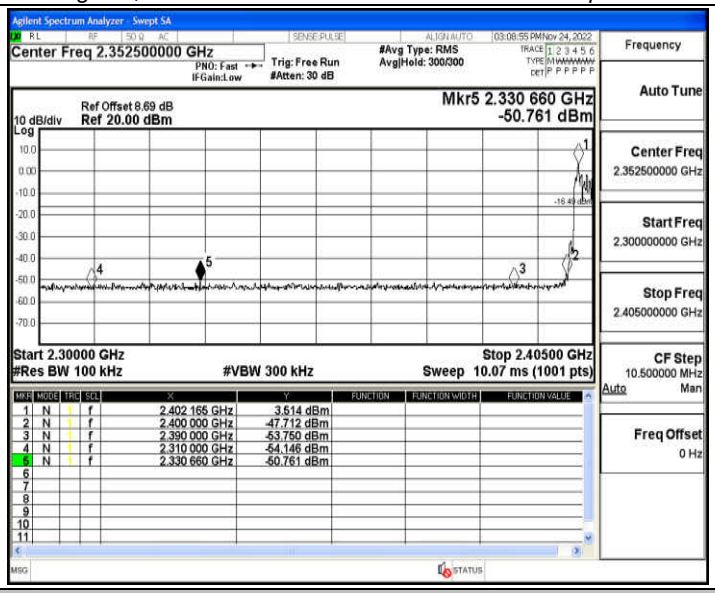
2DH5_Ant1_Low_2402



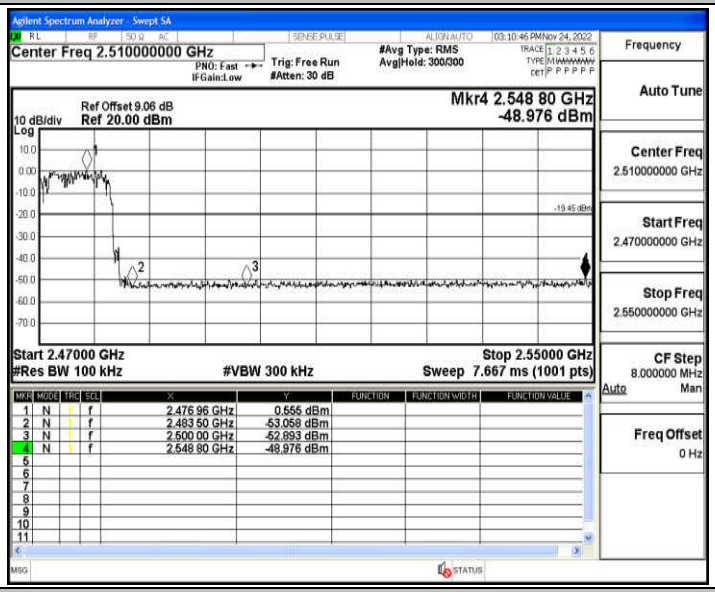
2DH5_Ant1_High_2480



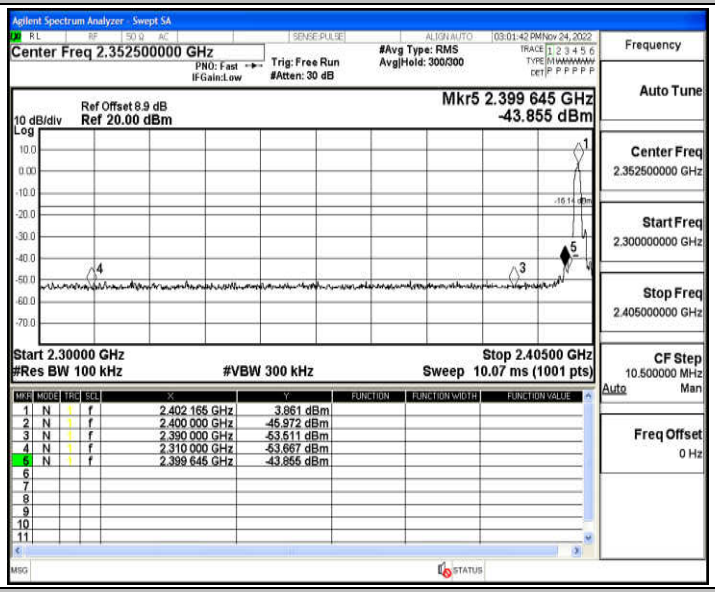
2DH5_Ant1_Low_Hop_2402



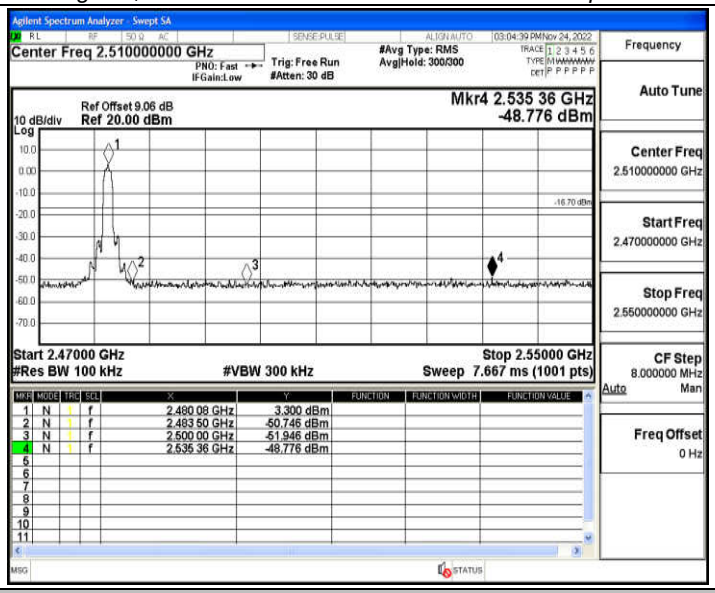
2DH5_Ant1_High_Hop_2480



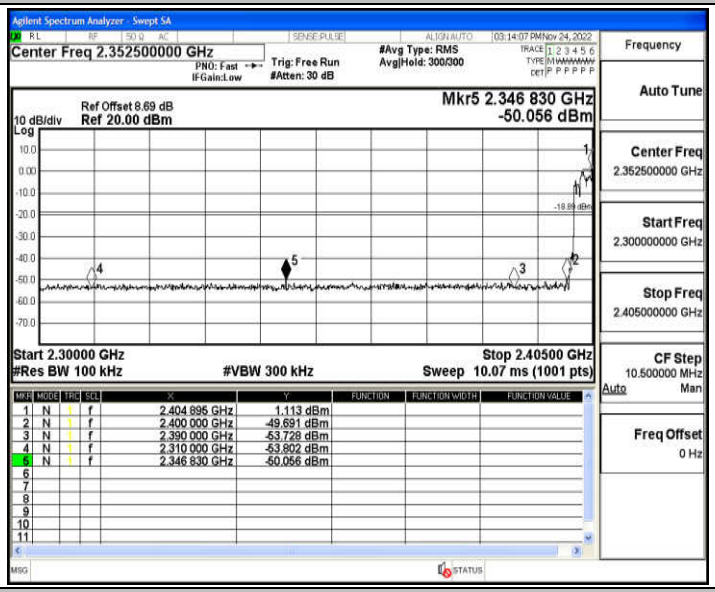
3DH5_Ant1_Low_2402



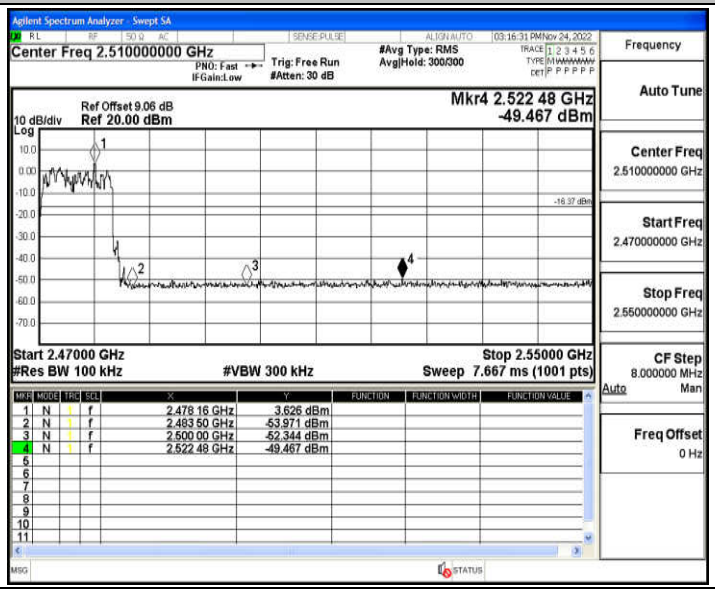
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



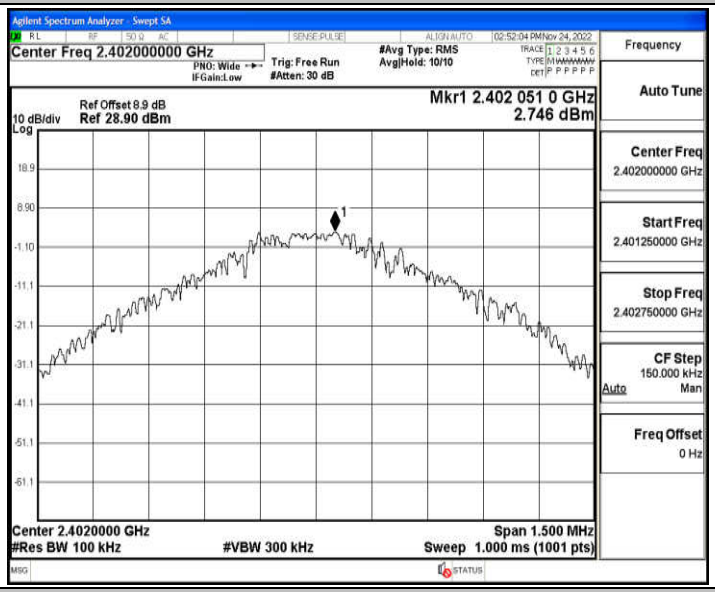
Appendix H: Conducted Spurious Emission

Test Result

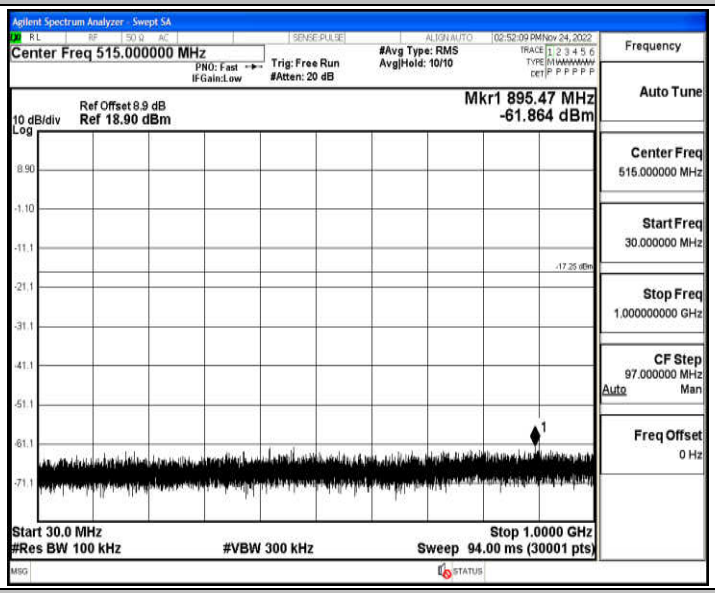
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-61.86	≤-17.25	PASS
			1000~26500	2.75	-51.76	≤-17.25	PASS
		2441	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-61.24	≤-16.66	PASS
			1000~26500	3.34	-51.76	≤-16.66	PASS
		2480	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-61.91	≤-16.66	PASS
			1000~26500	3.34	-51.12	≤-16.66	PASS
2DH5	Ant1	2402	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-62.39	≤-16.77	PASS
			1000~26500	3.23	-51.83	≤-16.77	PASS
		2441	Reference	2.96	2.96	---	PASS
			30~1000	2.96	-61.86	≤-17.04	PASS
			1000~26500	2.96	-52.07	≤-17.04	PASS
		2480	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-60.14	≤-18.96	PASS
			1000~26500	1.04	-51.76	≤-18.96	PASS
3DH5	Ant1	2402	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-61.14	≤-16.84	PASS
			1000~26500	3.16	-50.73	≤-16.84	PASS
		2441	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-60.56	≤-17.74	PASS
			1000~26500	2.26	-50.93	≤-17.74	PASS
		2480	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-61.42	≤-17.03	PASS
			1000~26500	2.97	-51.2	≤-17.03	PASS

Test Graphs

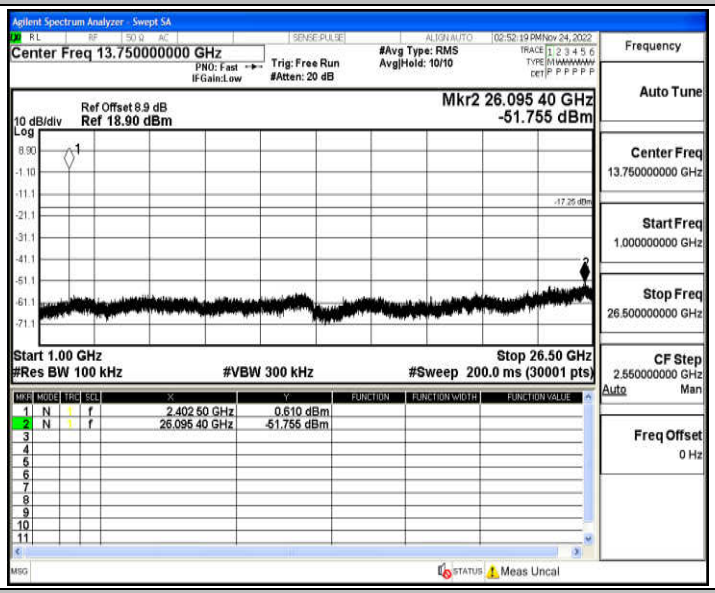
DH5_Ant1_2402_0~Reference



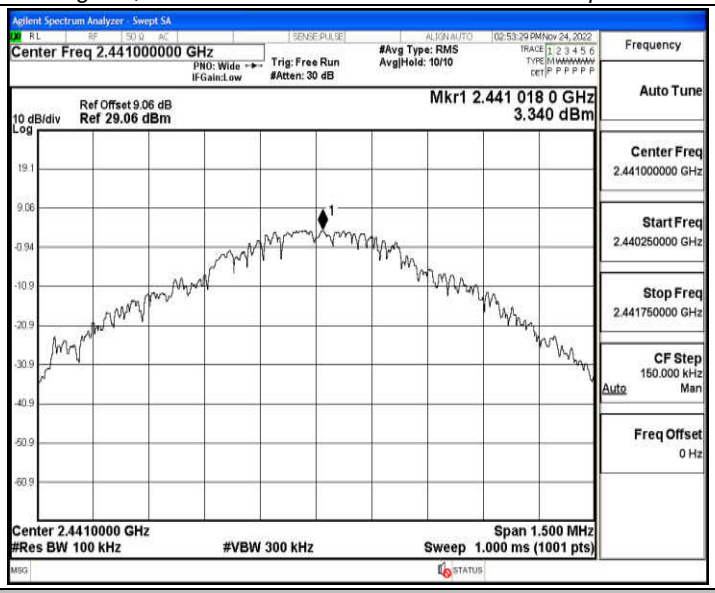
DH5_Ant1_2402_30~1000



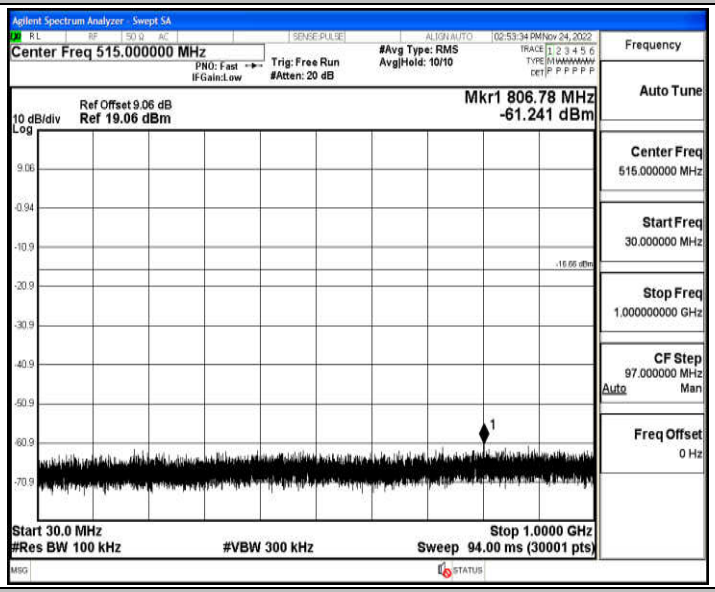
DH5_Ant1_2402_1000~26500



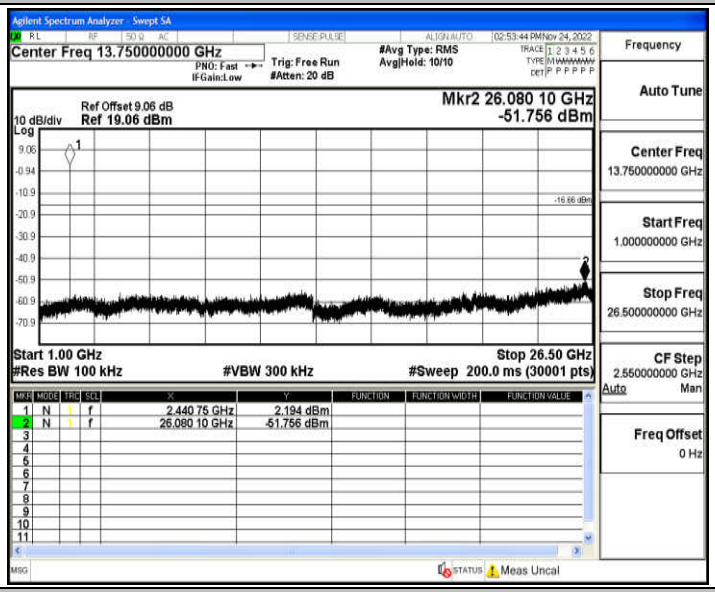
DH5_Ant1_2441_0~Reference



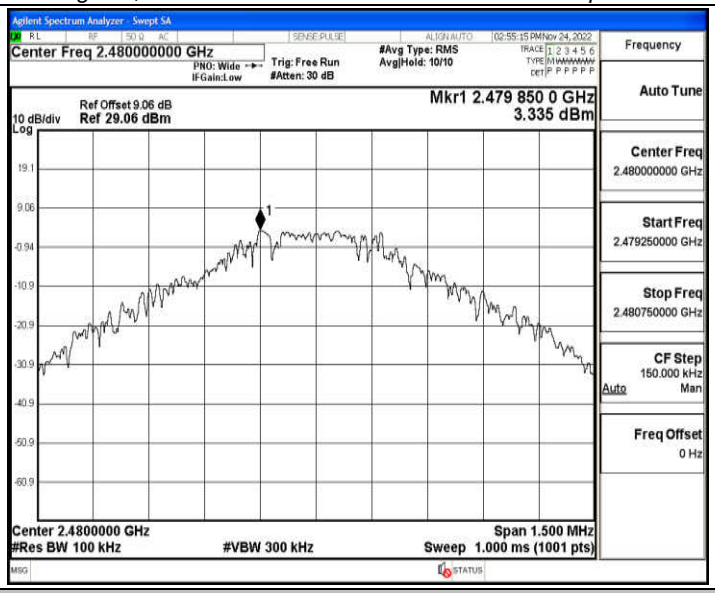
DH5_Ant1_2441_30~1000



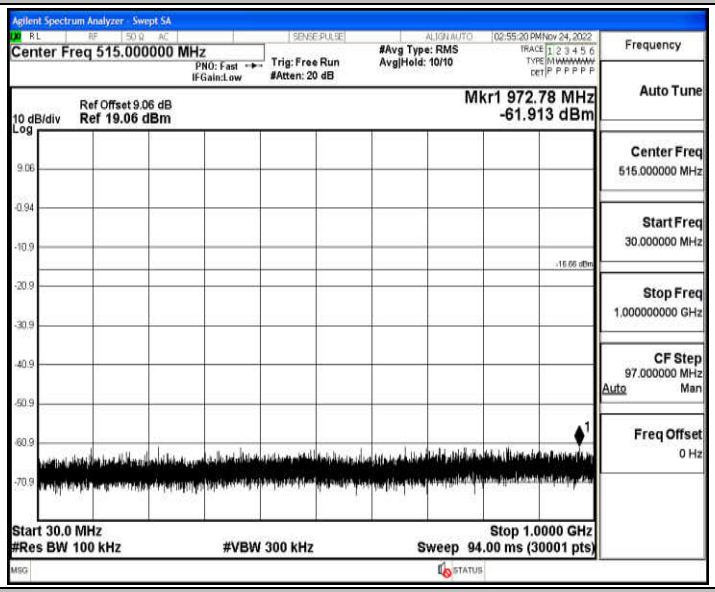
DH5_Ant1_2441_1000~26500



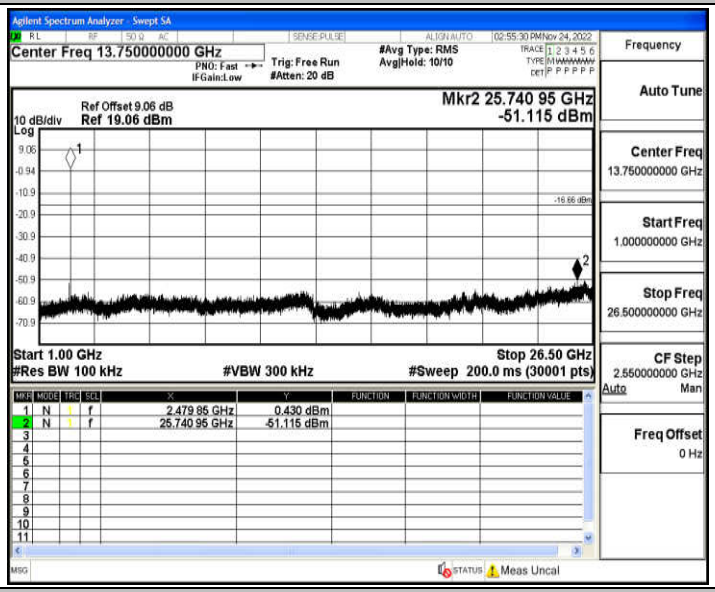
DH5_Ant1_2480_0~Reference



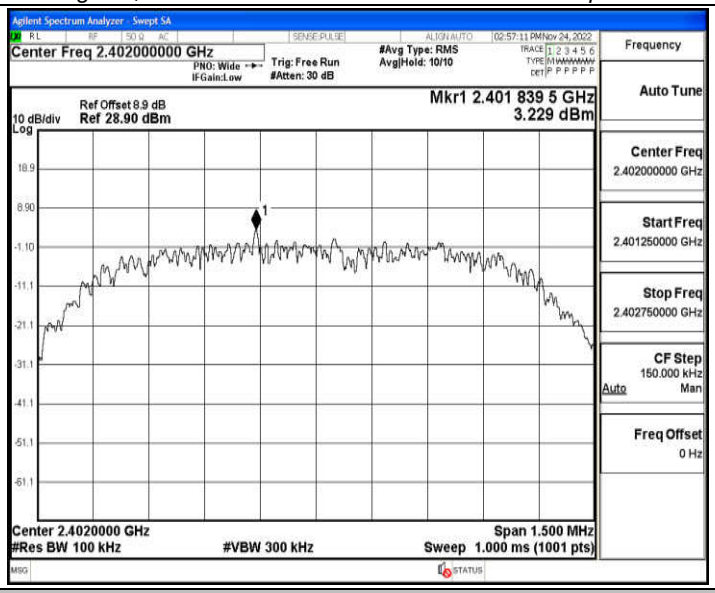
DH5_Ant1_2480_30~1000



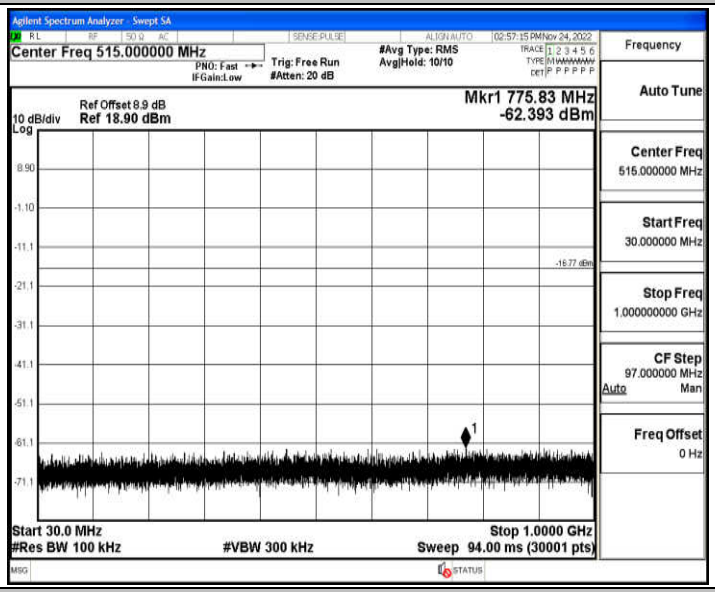
DH5_Ant1_2480_1000~26500



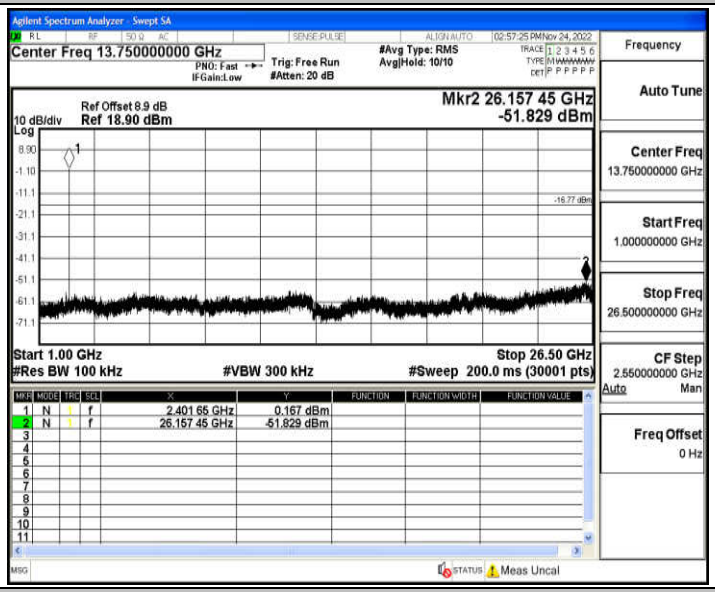
2DH5_Ant1_2402_0~Reference



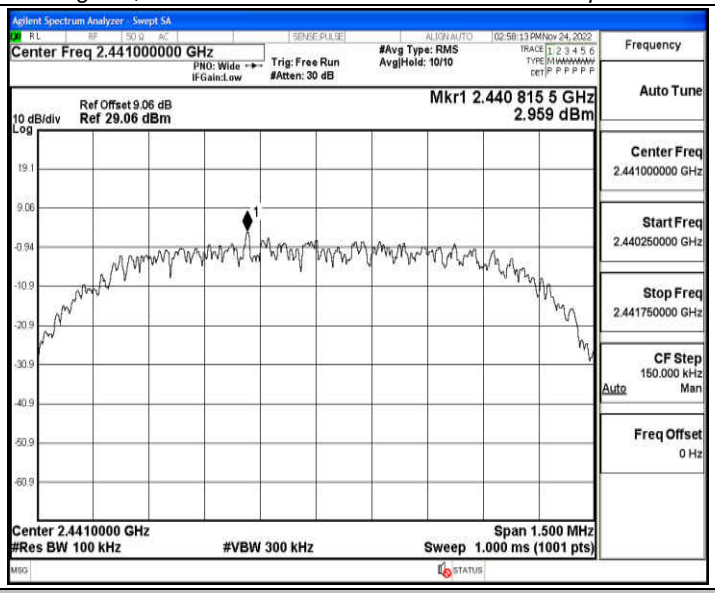
2DH5_Ant1_2402_30~1000



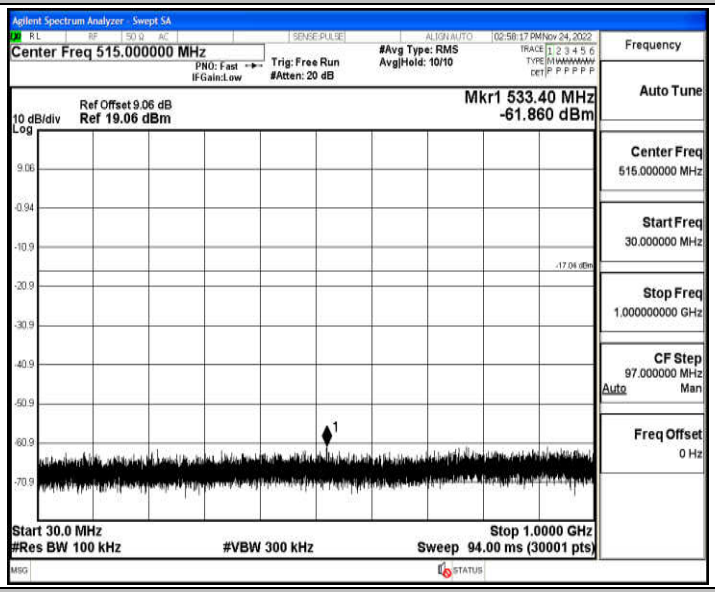
2DH5_Ant1_2402_1000~26500



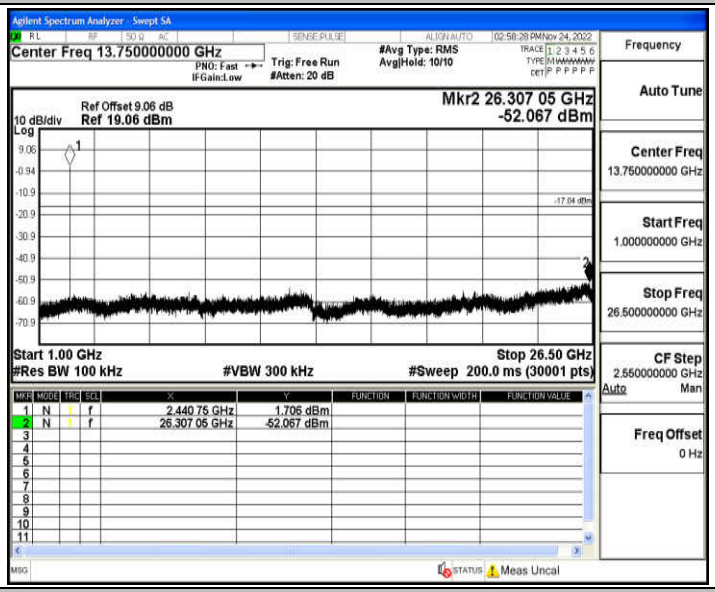
2DH5_Ant1_2441_0~Reference



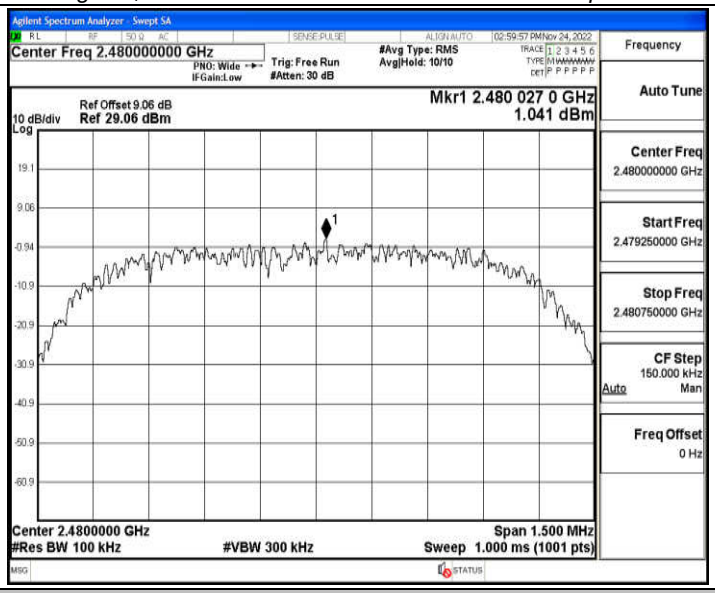
2DH5_Ant1_2441_30~1000



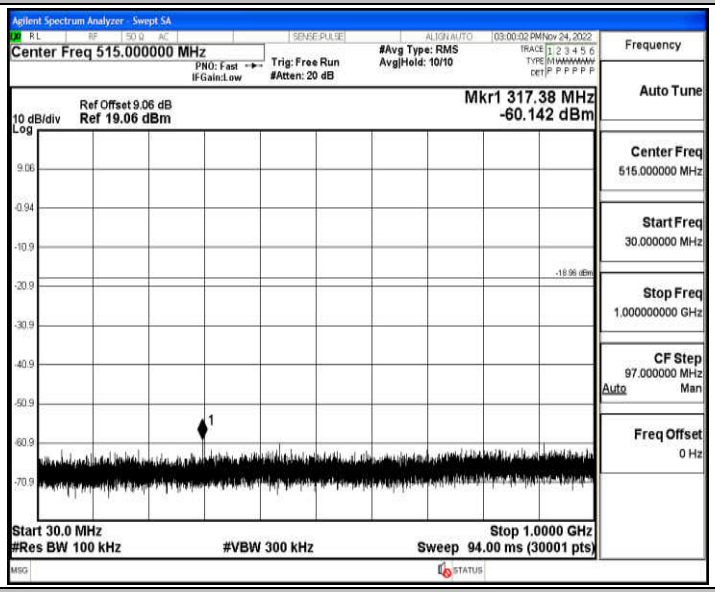
2DH5_Ant1_2441_1000~26500



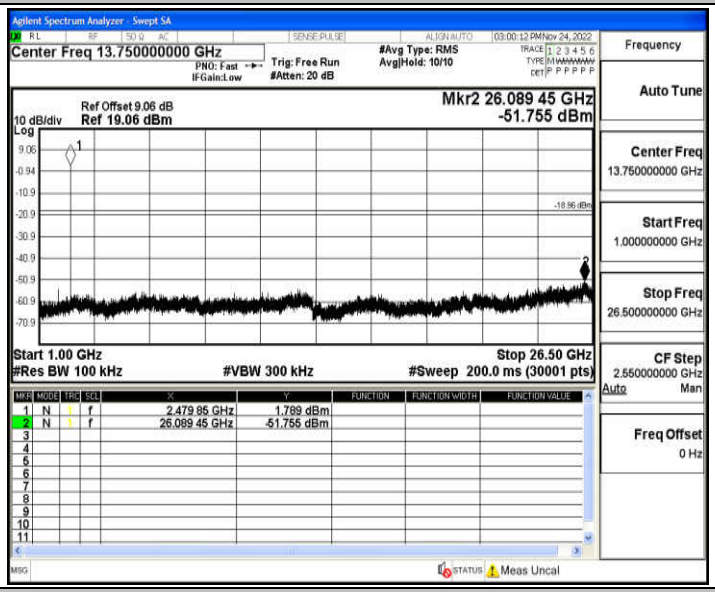
2DH5_Ant1_2480_0~Reference



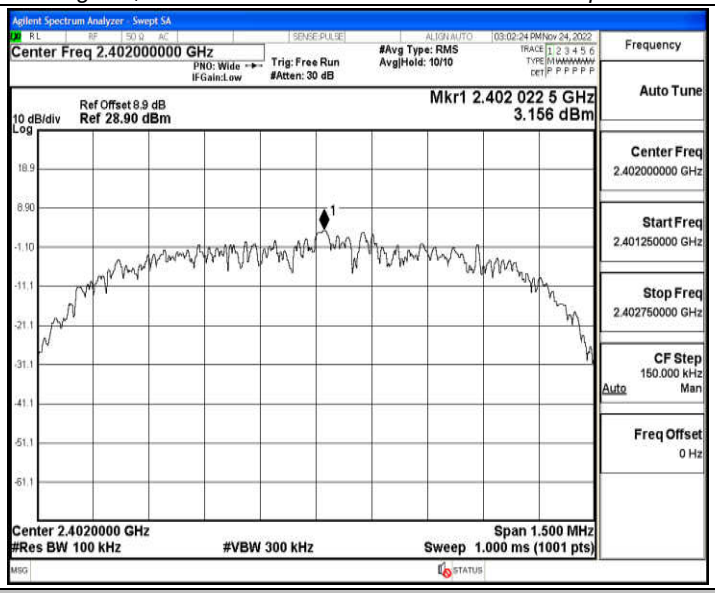
2DH5_Ant1_2480_30~1000



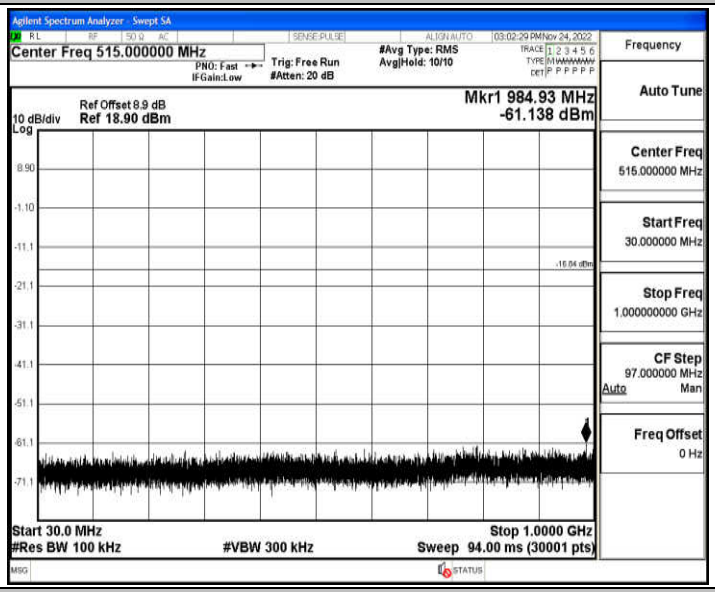
2DH5_Ant1_2480_1000~26500



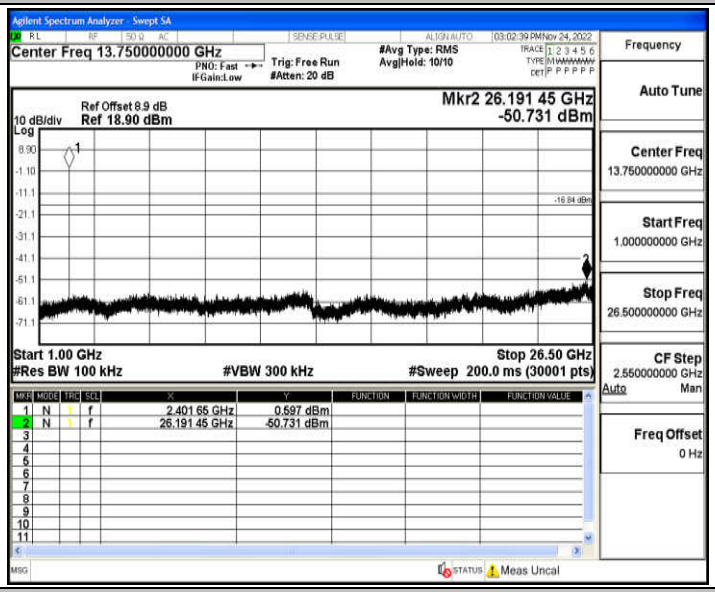
3DH5_Ant1_2402_0~Reference



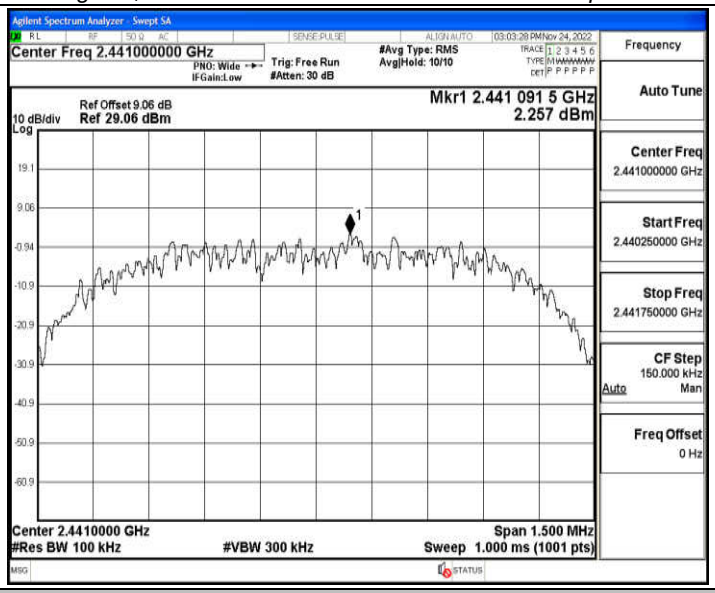
3DH5_Ant1_2402_30~1000



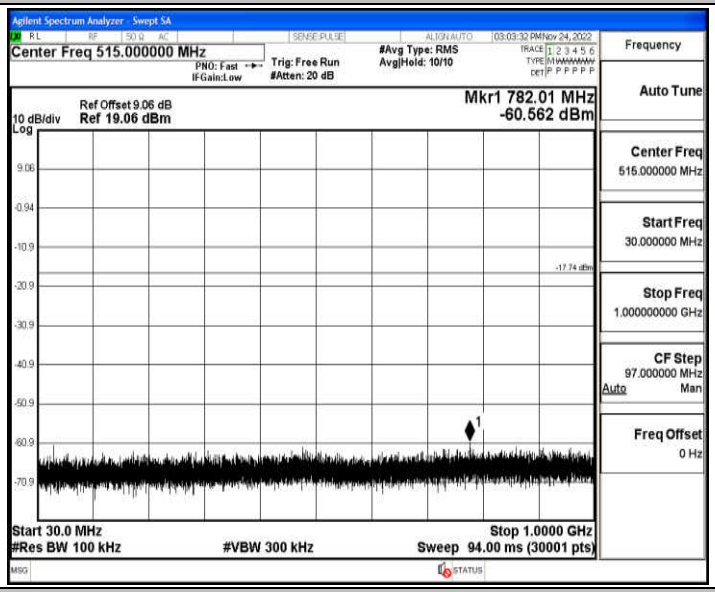
3DH5_Ant1_2402_1000~26500



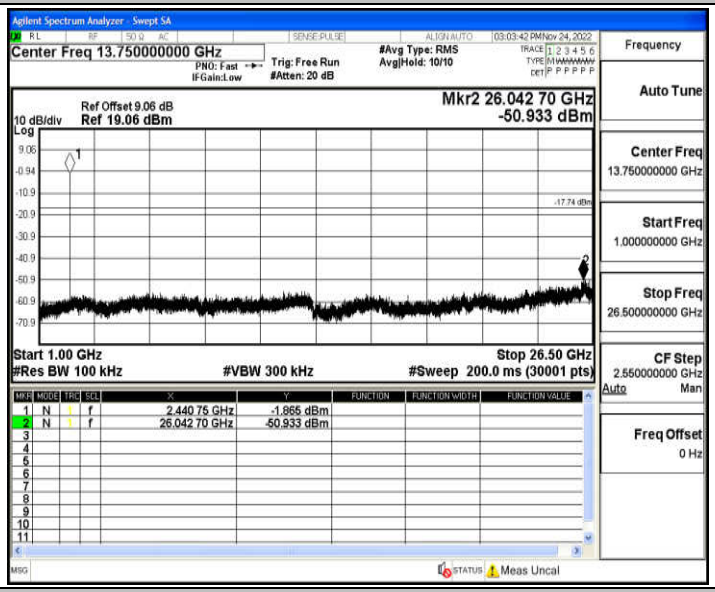
3DH5_Ant1_2441_0~Reference



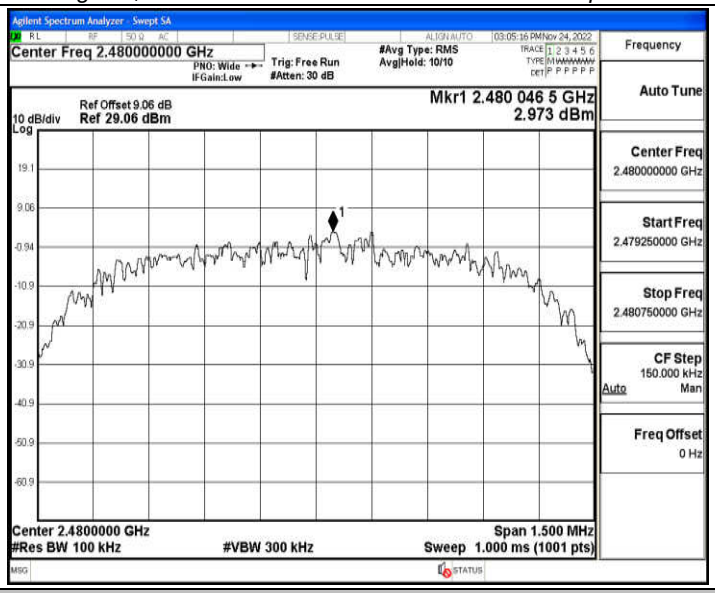
3DH5_Ant1_2441_30~1000



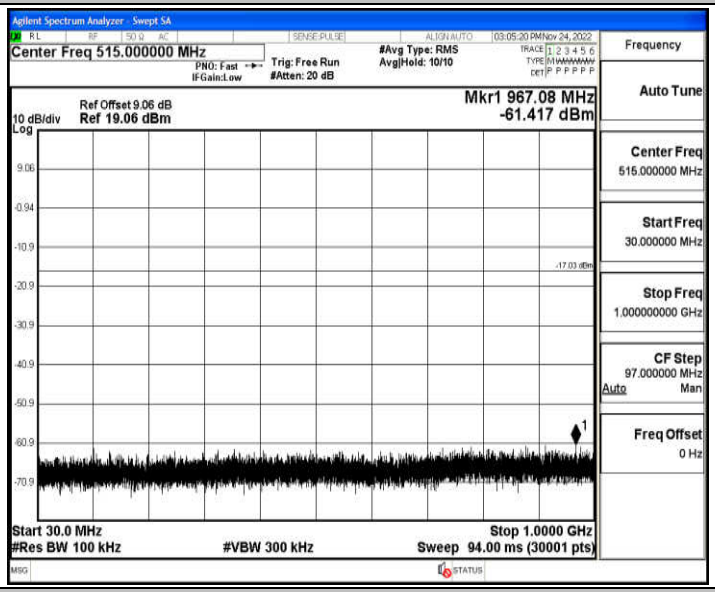
3DH5_Ant1_2441_1000~26500



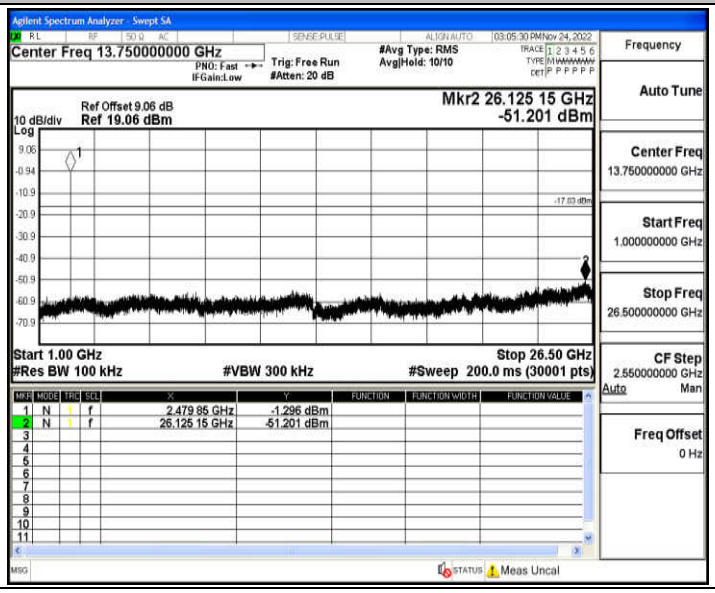
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



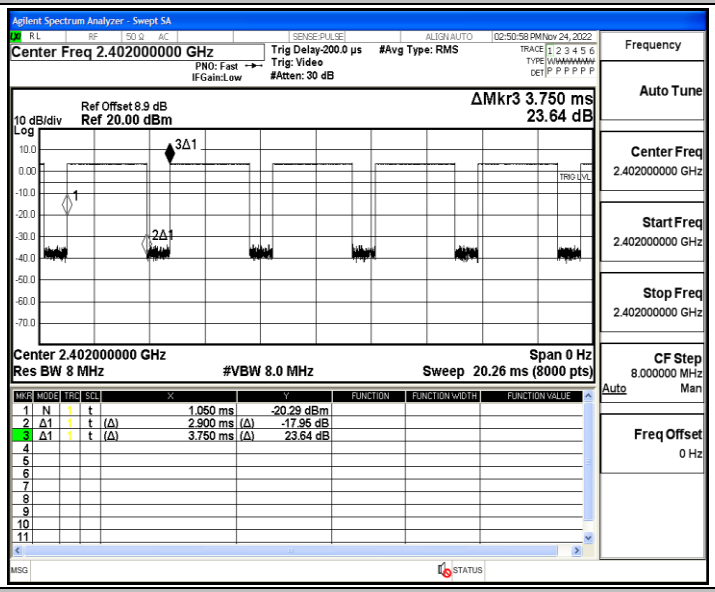
Appendix I: Duty Cycle

Test Result

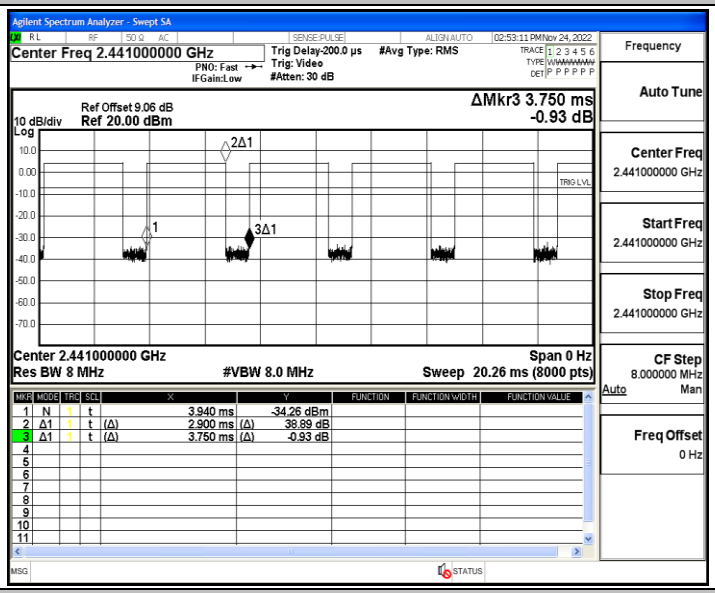
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.90	3.76	77.13	0.34
2DH5	Ant1	2402	2.88	3.75	76.80	0.35
		2441	2.88	3.75	76.80	0.35
		2480	2.88	3.75	76.80	0.35
3DH5	Ant1	2402	2.88	3.75	76.80	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.88	3.75	76.80	0.35

Test Graphs

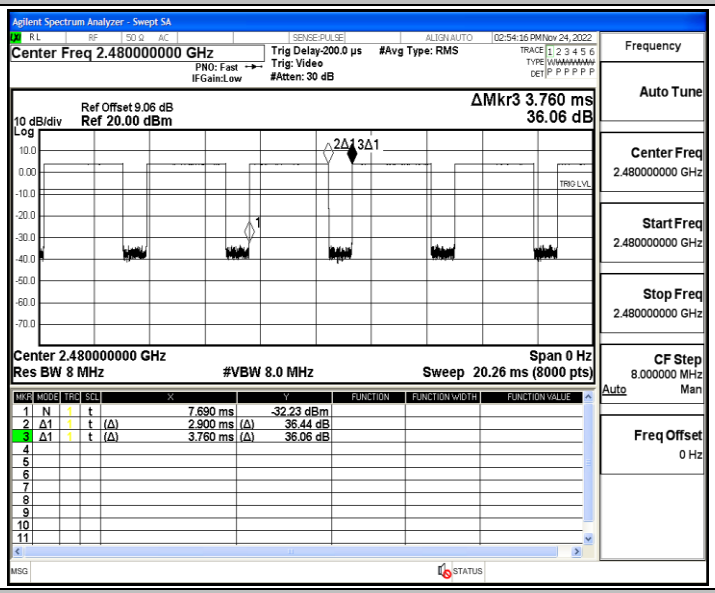
DH5_Ant1_2402



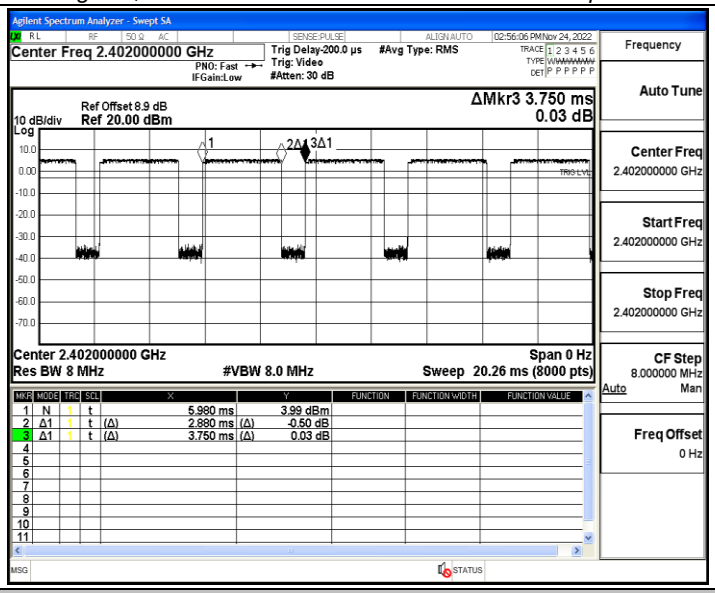
DH5_Ant1_2441



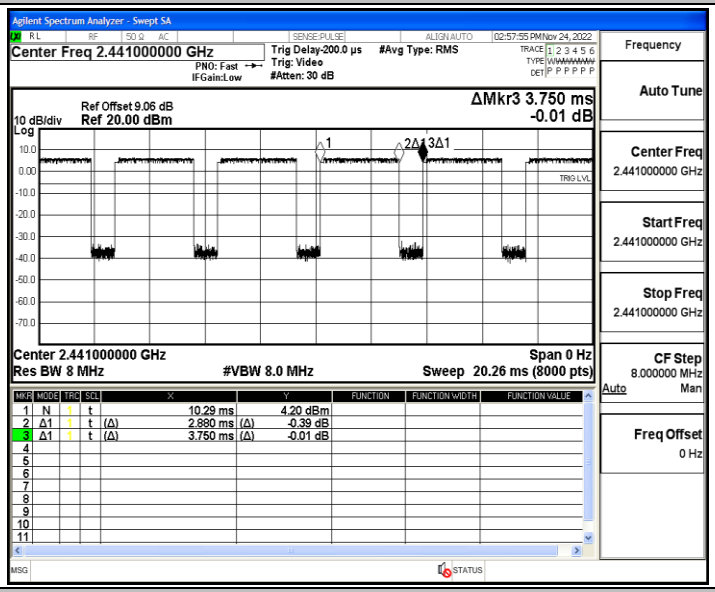
DH5_Ant1_2480



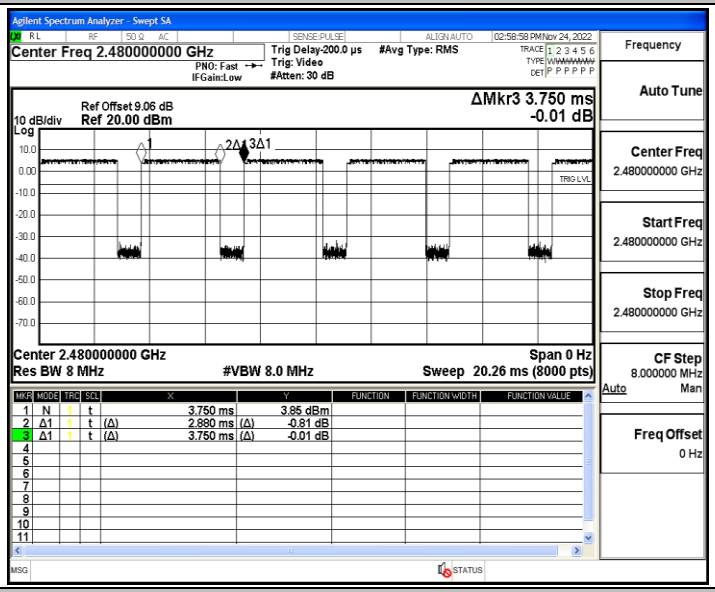
2DH5_Ant1_2402



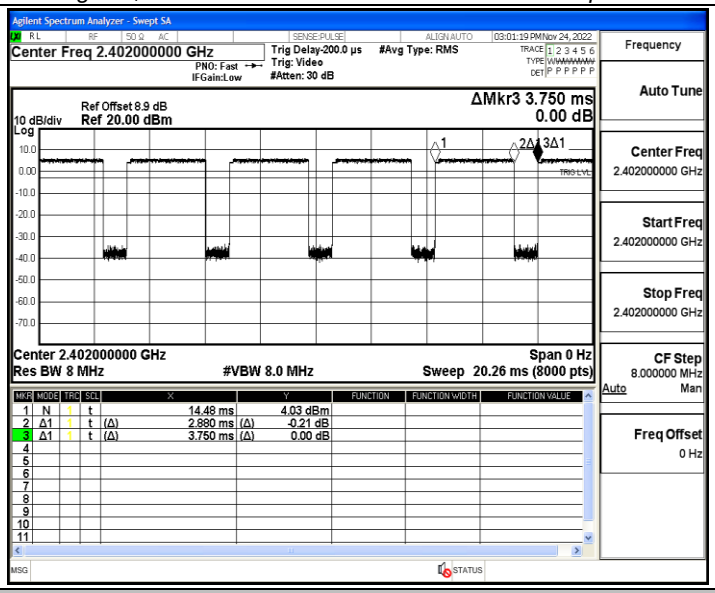
2DH5_Ant1_2441



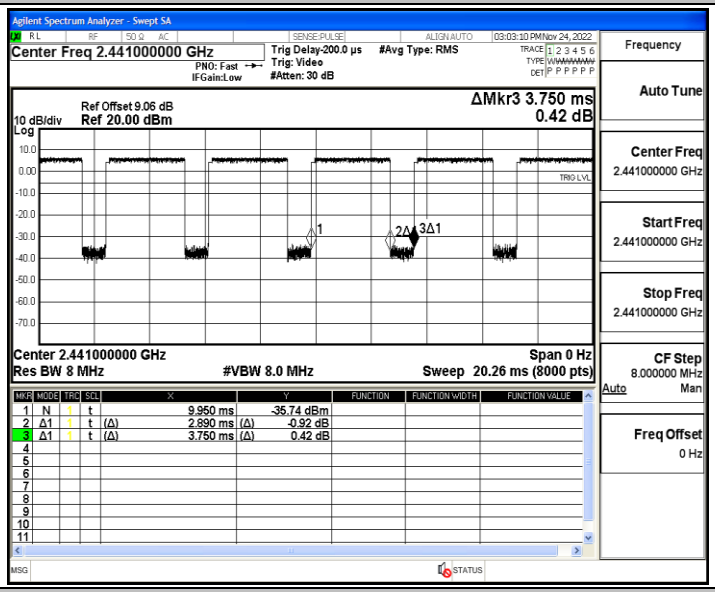
2DH5_Ant1_2480



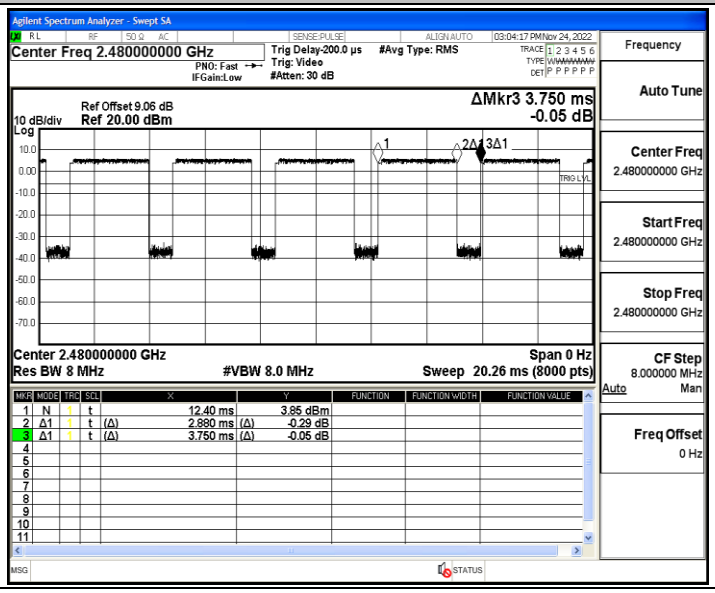
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

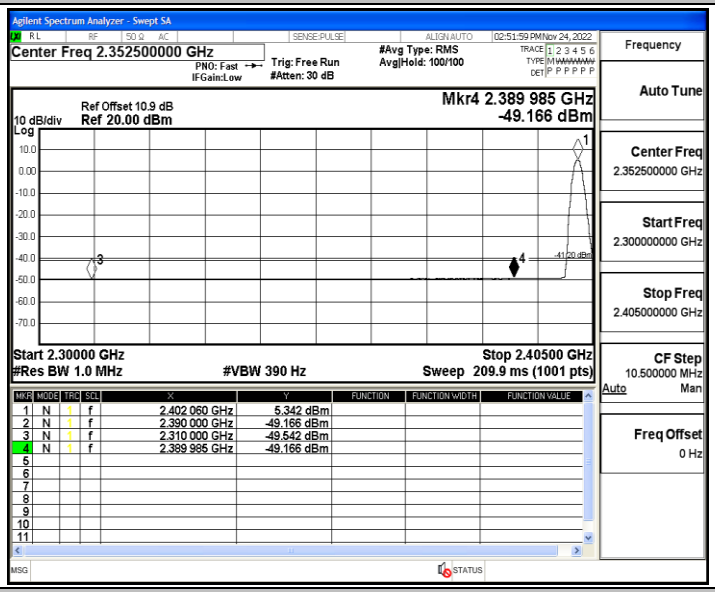
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.54	≤-41.20	PASS
				AV	2389.985	-49.17	≤-41.20	PASS
				AV	2390.000	-49.17	≤-41.20	PASS
				Peak	2310.000	-42.55	≤-21.20	PASS
				Peak	2366.150	-39.31	≤-21.20	PASS
				Peak	2390.000	-42.73	≤-21.20	PASS
		High	2480	AV	2483.500	-48.1	≤-41.20	PASS
				AV	2483.520	-48.1	≤-41.20	PASS
				AV	2500.000	-48.62	≤-41.20	PASS
				Peak	2483.500	-42.15	≤-21.20	PASS
				Peak	2494.800	-39.73	≤-21.20	PASS
				Peak	2500.000	-41.94	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.55	≤-41.20	PASS
				AV	2389.145	-49.19	≤-41.20	PASS
				AV	2390.000	-49.26	≤-41.20	PASS
				Peak	2310.000	-43.15	≤-21.20	PASS
				Peak	2378.750	-38.74	≤-21.20	PASS
				Peak	2390.000	-41.3	≤-21.20	PASS
		High	2480	AV	2483.500	-46.58	≤-41.20	PASS
				AV	2483.520	-46.58	≤-41.20	PASS
				AV	2500.000	-48.58	≤-41.20	PASS
				Peak	2483.500	-40.91	≤-21.20	PASS
				Peak	2483.600	-38.69	≤-21.20	PASS
				Peak	2500.000	-41.95	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.6	≤-41.20	PASS
				AV	2387.780	-49.19	≤-41.20	PASS
				AV	2390.000	-49.31	≤-41.20	PASS
				Peak	2310.000	-41.34	≤-21.20	PASS
				Peak	2370.140	-38.82	≤-21.20	PASS
				Peak	2390.000	-43.18	≤-21.20	PASS
		High	2480	AV	2483.500	-46.51	≤-41.20	PASS
				AV	2483.520	-46.51	≤-41.20	PASS
				AV	2500.000	-48.59	≤-41.20	PASS
				Peak	2483.500	-39.49	≤-21.20	PASS
				Peak	2484.000	-38.49	≤-21.20	PASS
				Peak	2500.000	-42.77	≤-21.20	PASS

Note：

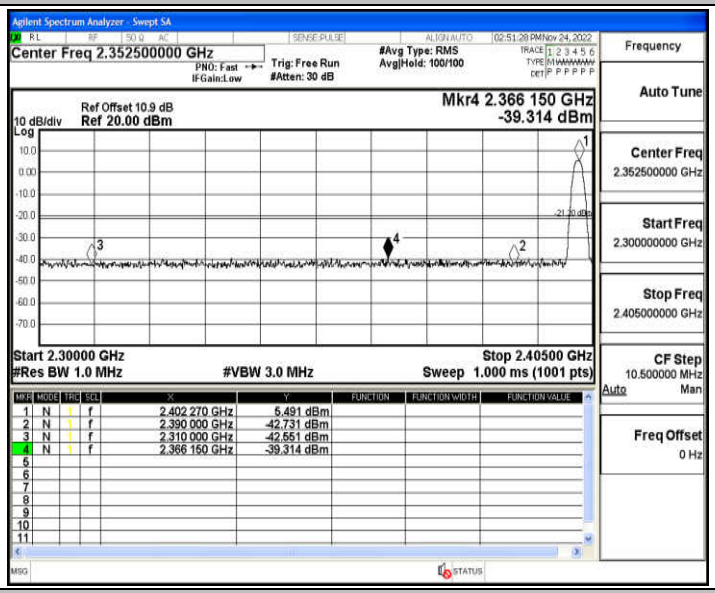
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

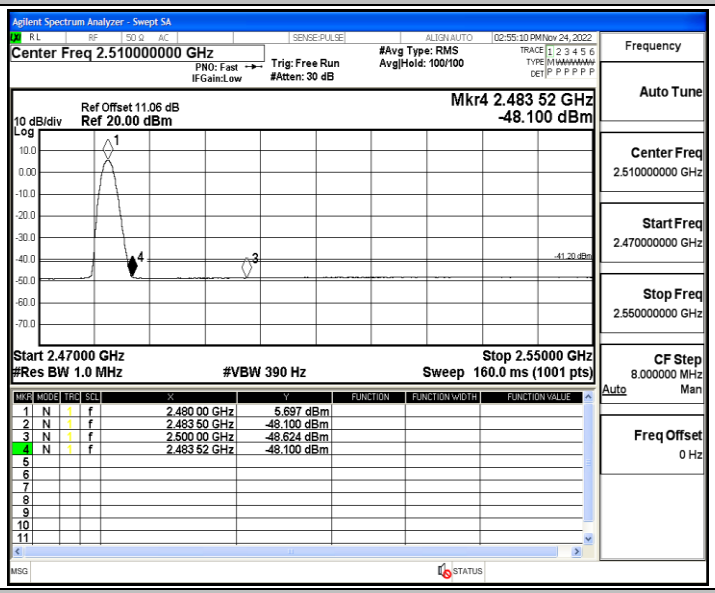
DH5_Ant1_Low_2402_AV



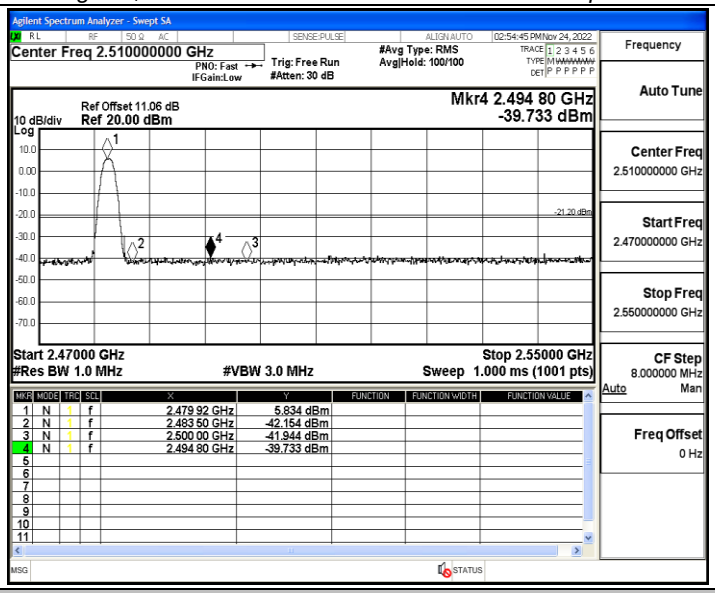
DH5_Ant1_Low_2402_Peak



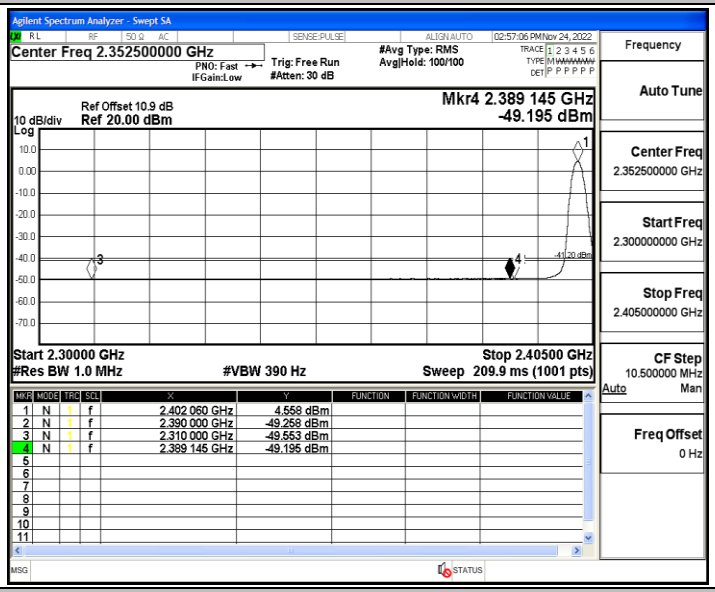
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV



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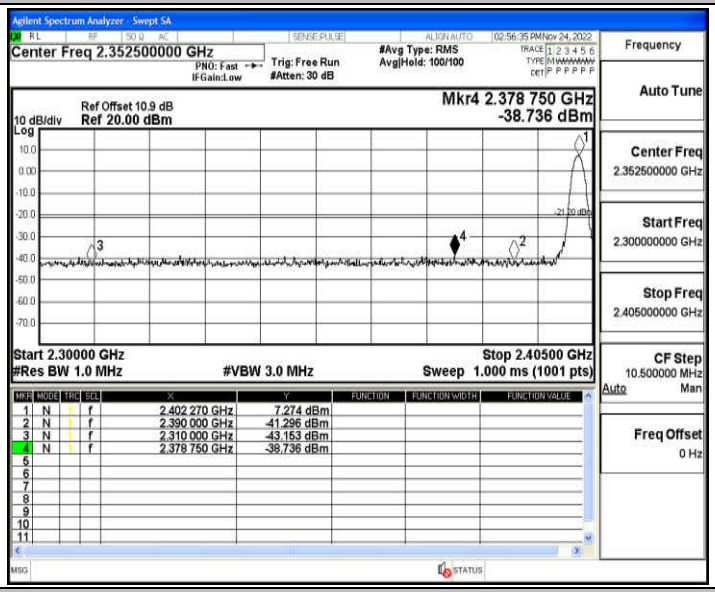

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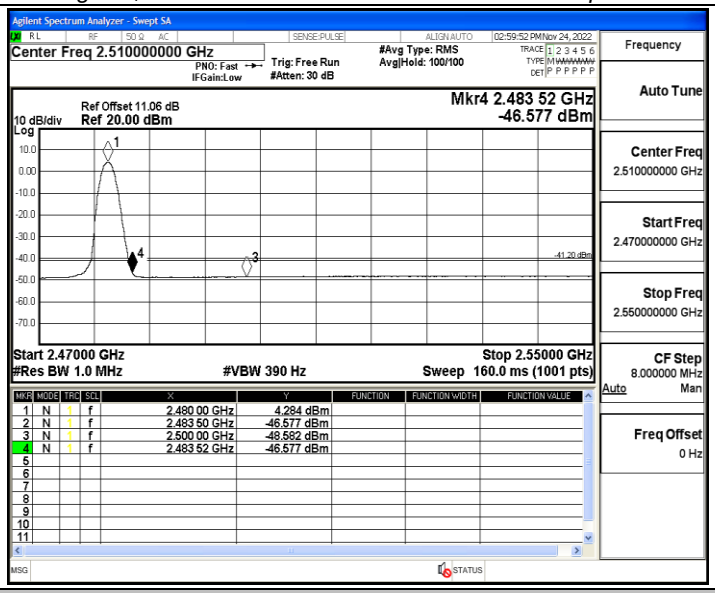

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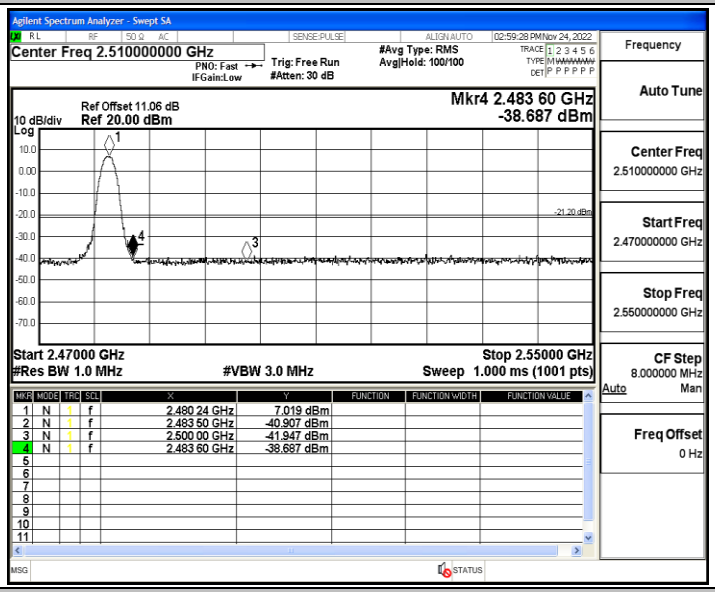
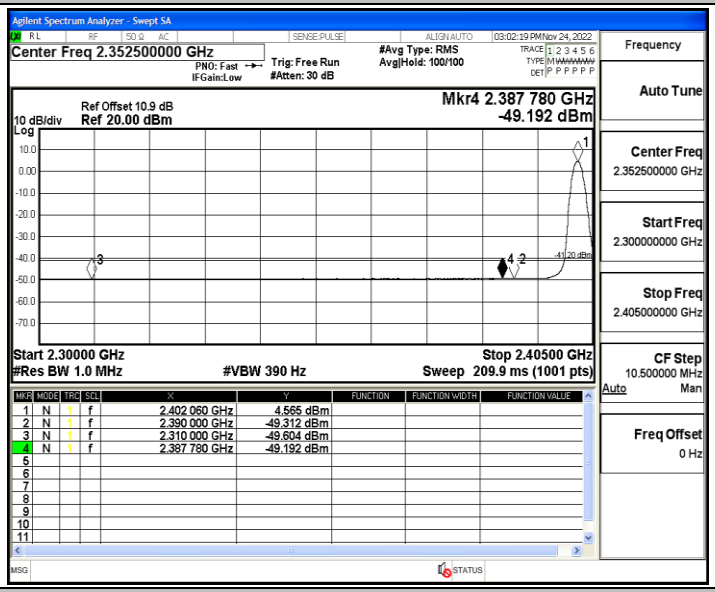


3DH5_Ant1_Low_2402_AV



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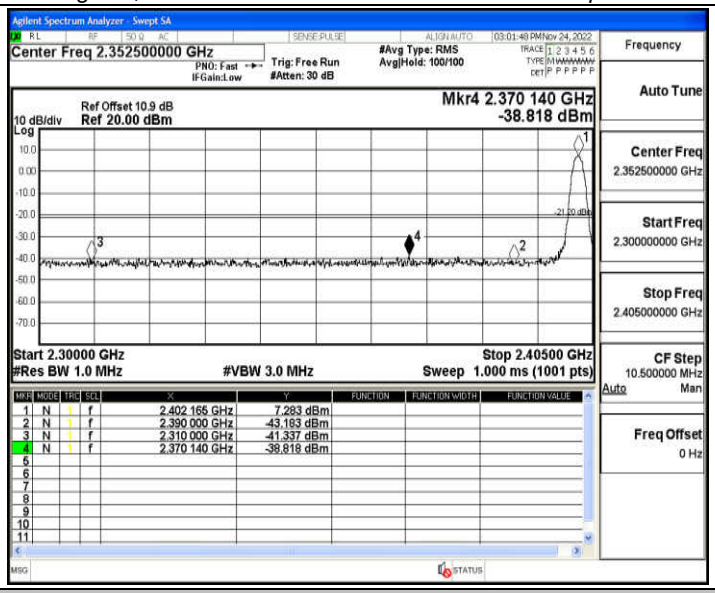

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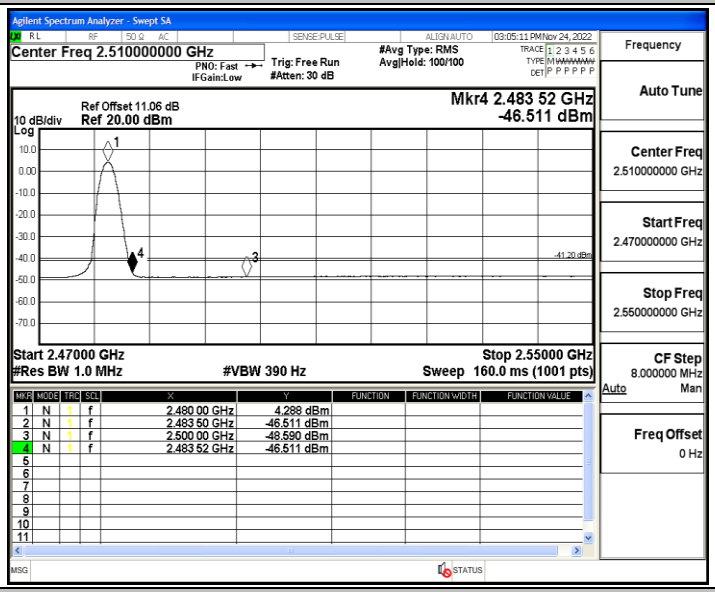

3DH5_Ant1_High_2480_Peak