



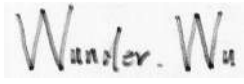
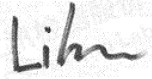
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Projector

Test Model: Pro V8

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Wunder Wu
Supervised by:	 Li Huan





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.460	2402.495	---	---
		2441	1.044	2440.454	2441.498	---	---
		2480	1.038	2479.454	2480.492	---	---
2DH5	Ant1	2402	1.290	2401.352	2402.642	---	---
		2441	1.290	2440.352	2441.642	---	---
		2480	1.296	2479.349	2480.645	---	---
3DH5	Ant1	2402	1.293	2401.340	2402.633	---	---
		2441	1.293	2440.340	2441.633	---	---
		2480	1.305	2479.334	2480.639	---	---

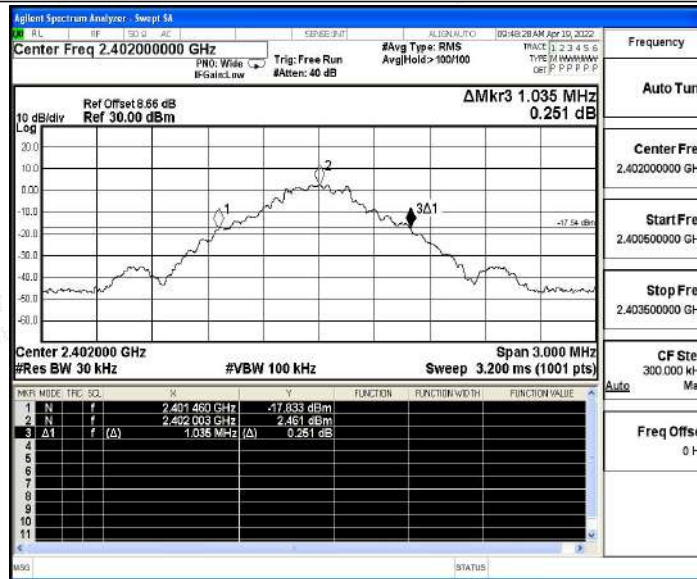


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Scan code to check authenticity

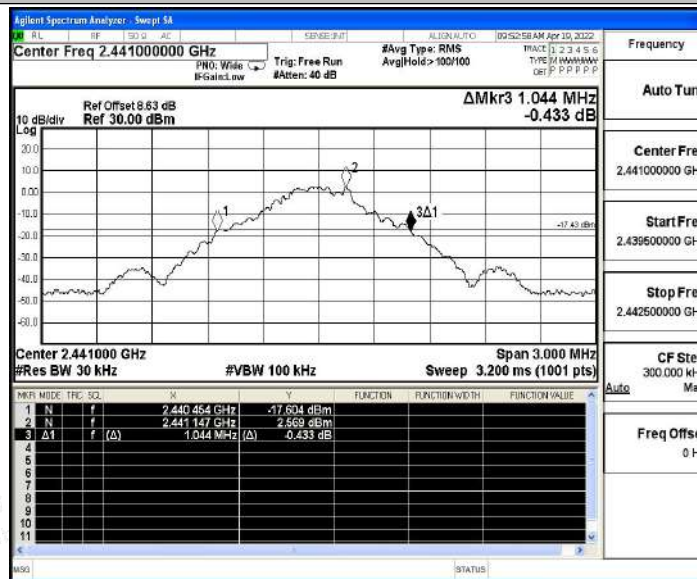


Test Graphs

DH5_Ant1_2402

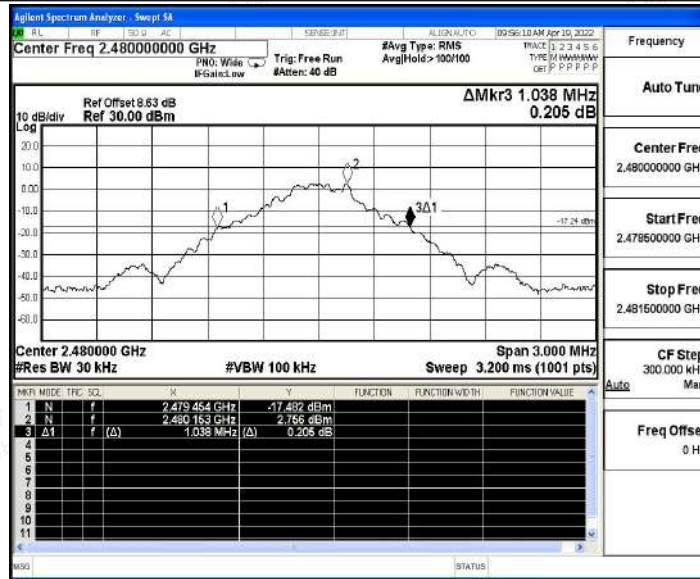


DH5_Ant1_2441

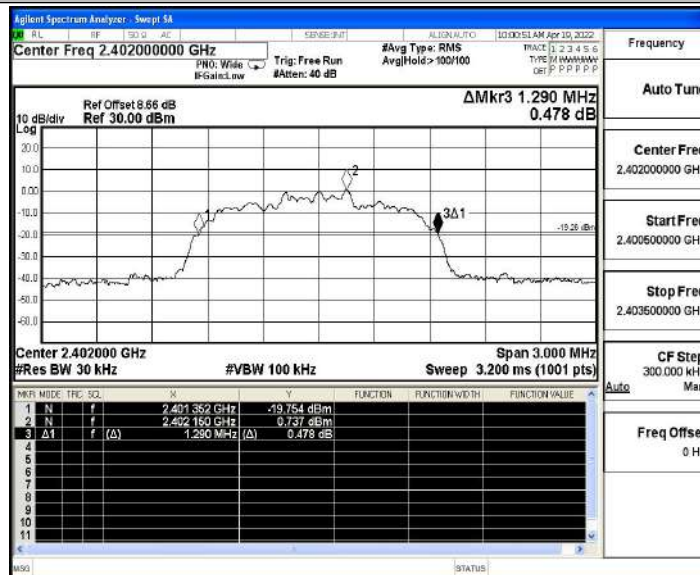


DH5_Ant1_2480



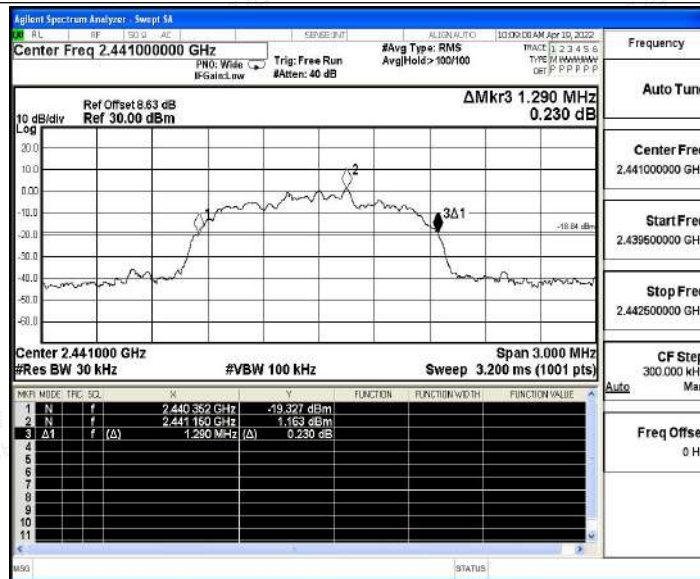


2DH5_Ant1_2402

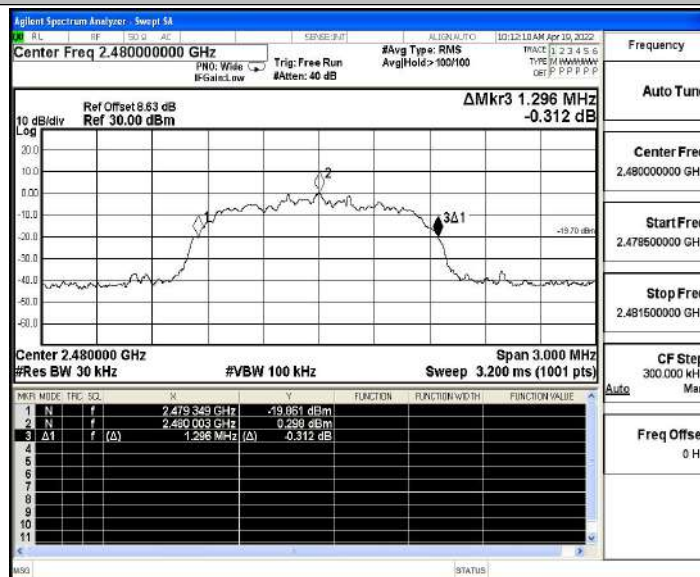


2DH5_Ant1_2441



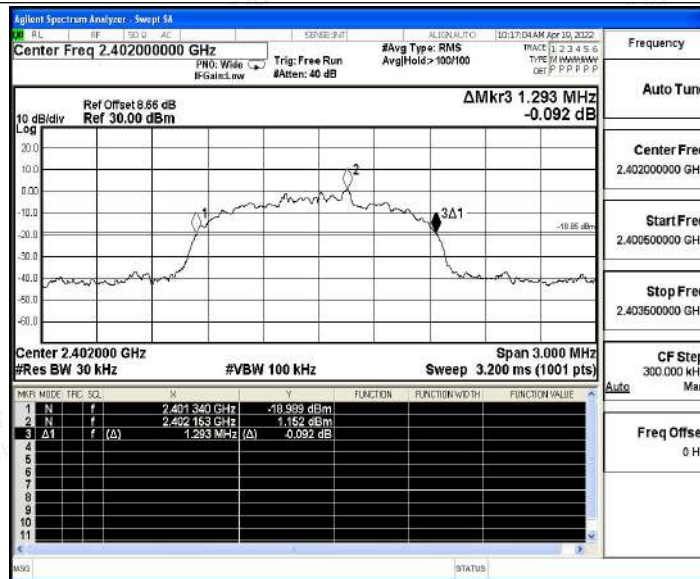


2DH5_Ant1_2480

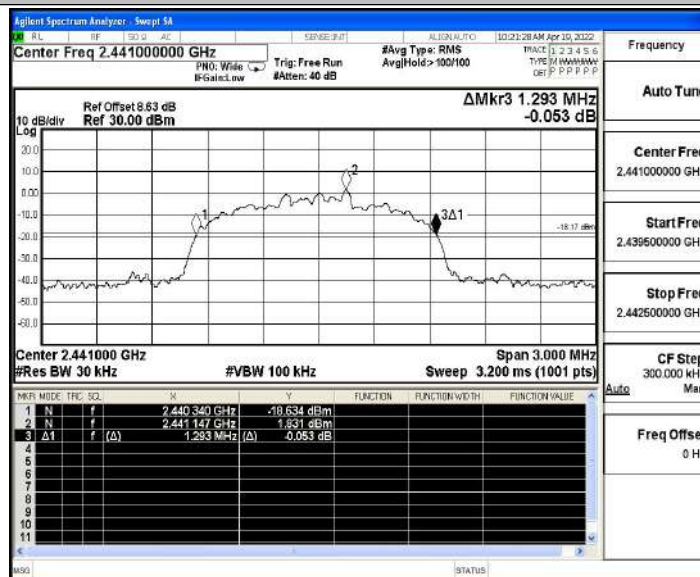


3DH5_Ant1_2402



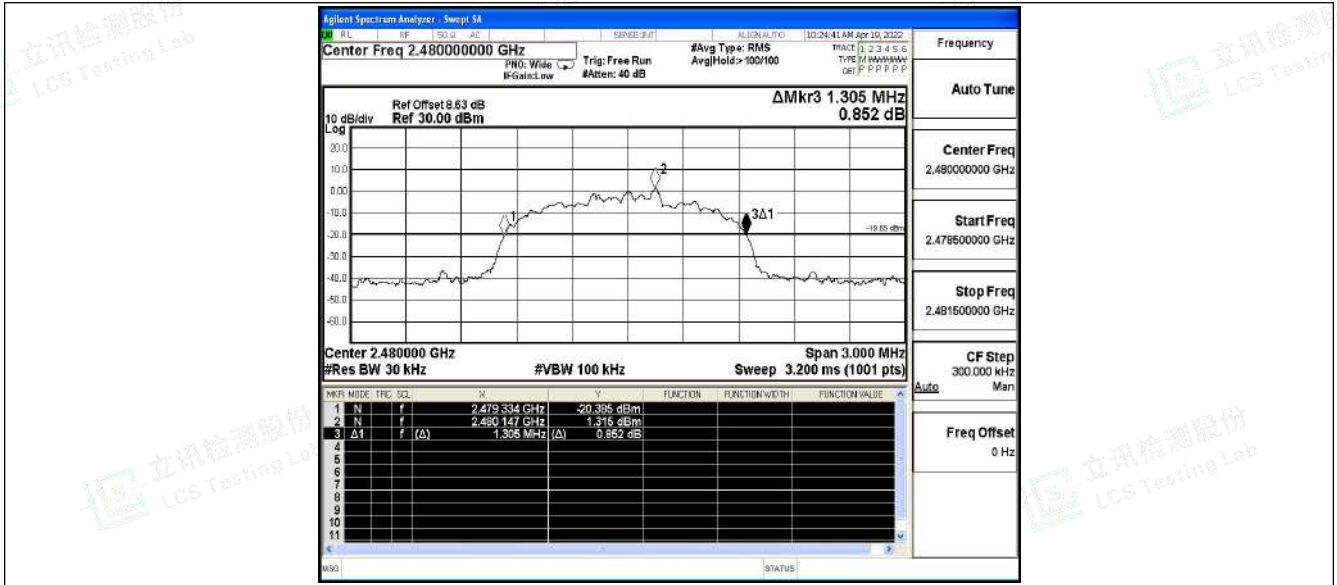


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90326	2401.540	2402.443	---	---
		2441	0.89819	2440.544	2441.443	---	---
		2480	0.90537	2479.540	2480.445	---	---
2DH5	Ant1	2402	1.1858	2401.395	2402.581	---	---
		2441	1.1766	2440.398	2441.575	---	---
		2480	1.1855	2479.393	2480.578	---	---
3DH5	Ant1	2402	1.1770	2401.401	2402.578	---	---
		2441	1.1764	2440.404	2441.580	---	---
		2480	1.1891	2479.394	2480.583	---	---

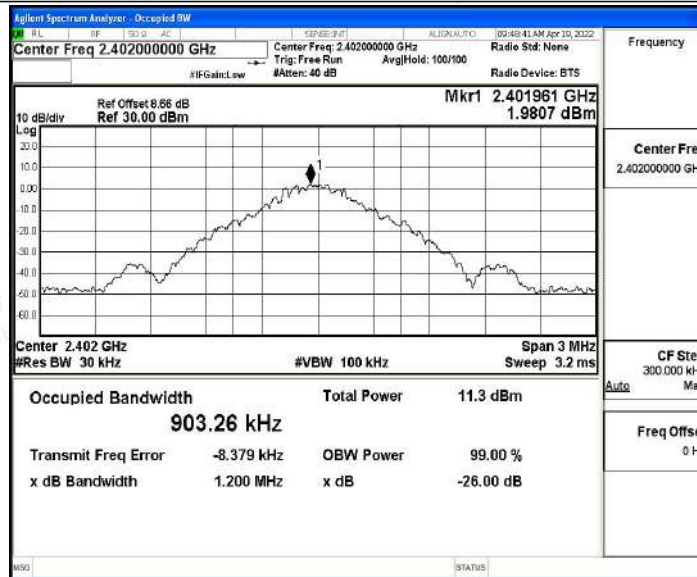


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Scan code to check authenticity

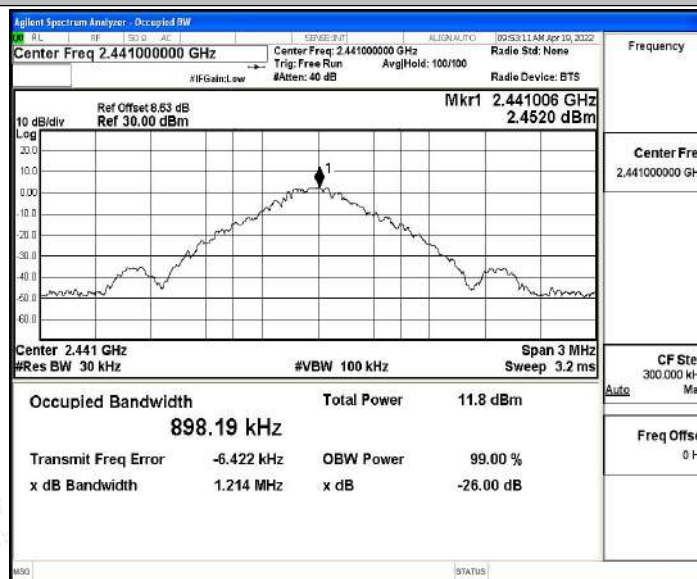


Test Graphs

DH5_Ant1_2402

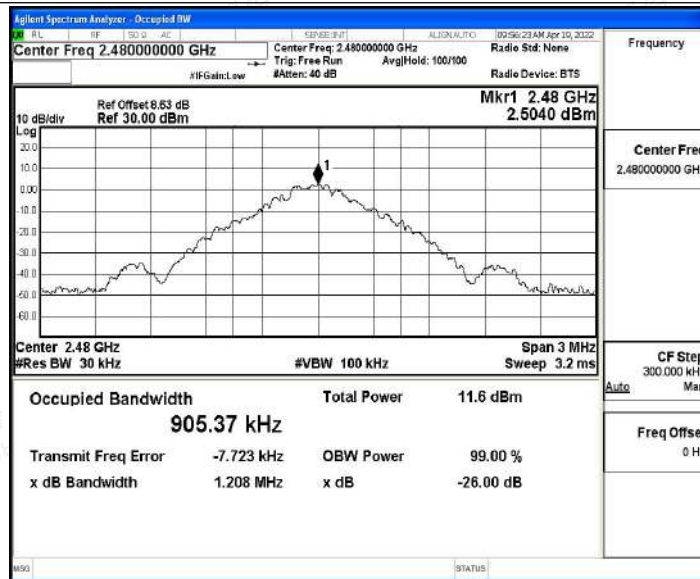


DH5_Ant1_2441

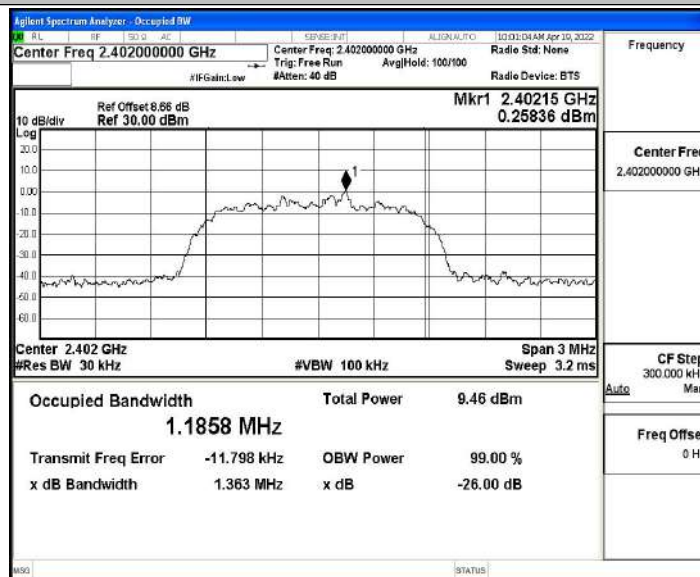


DH5_Ant1_2480



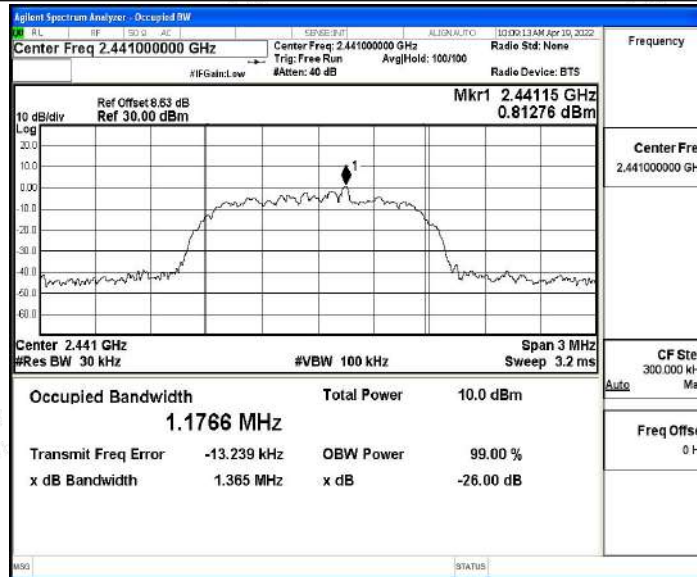


2DH5_Ant1_2402

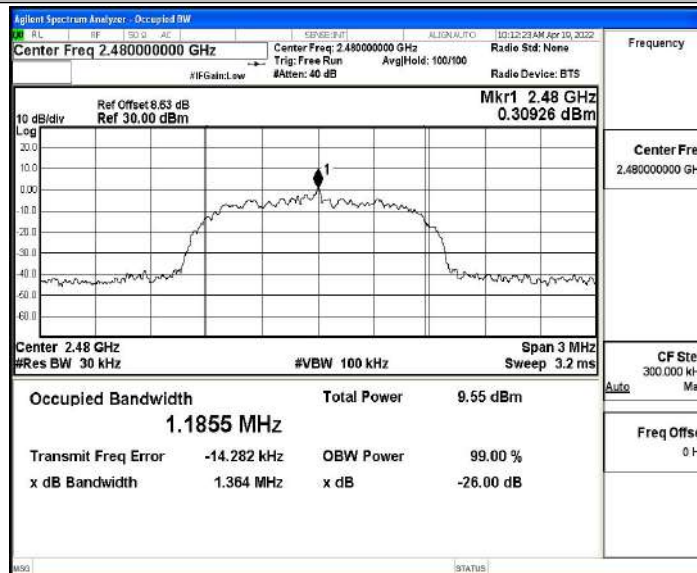


2DH5_Ant1_2441



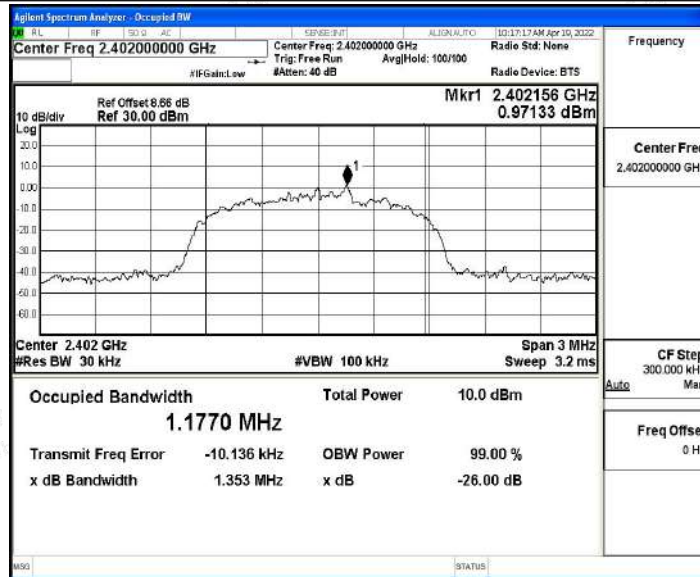


2DH5_Ant1_2480

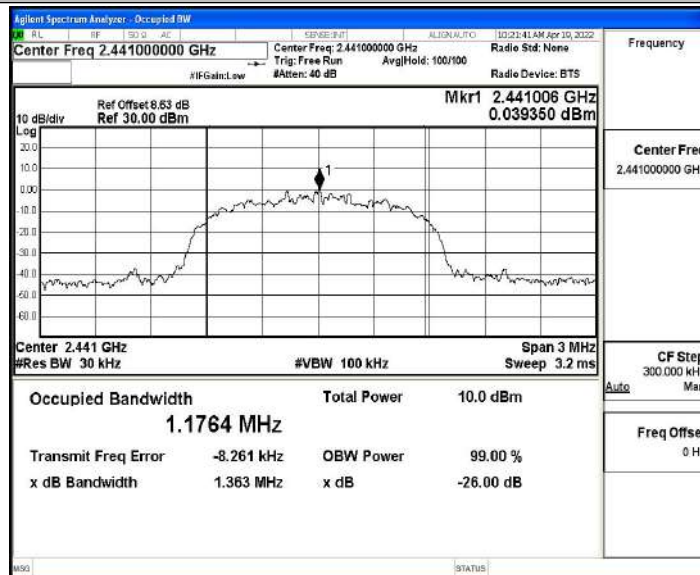


3DH5_Ant1_2402



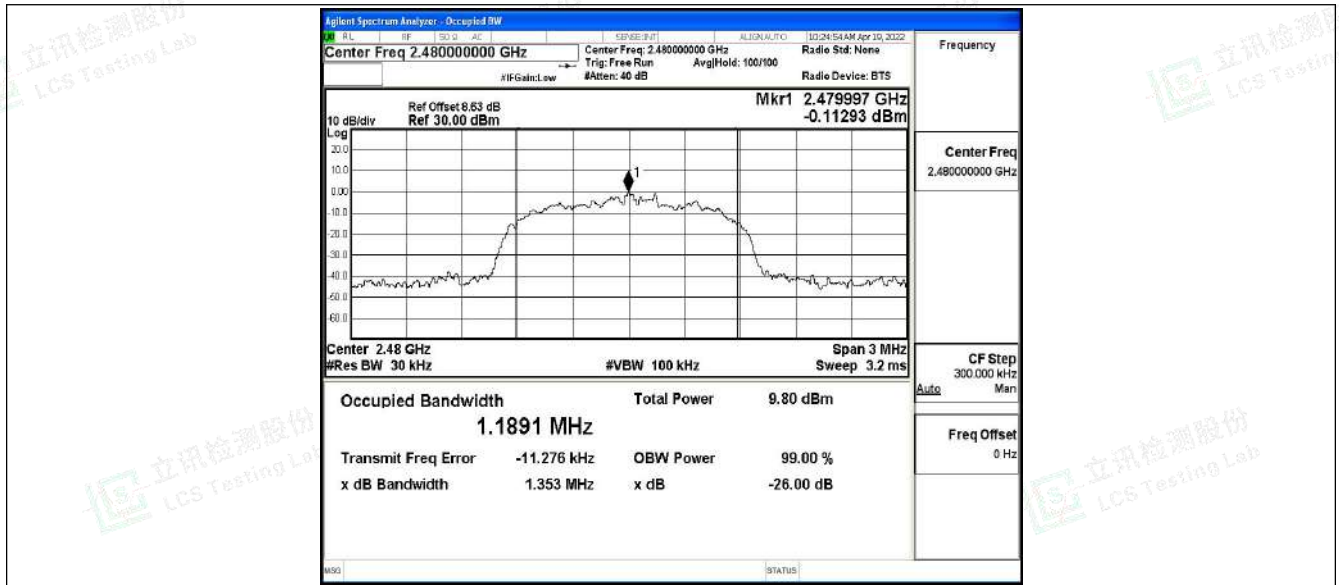


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Maximum peak conducted output power

Test Result

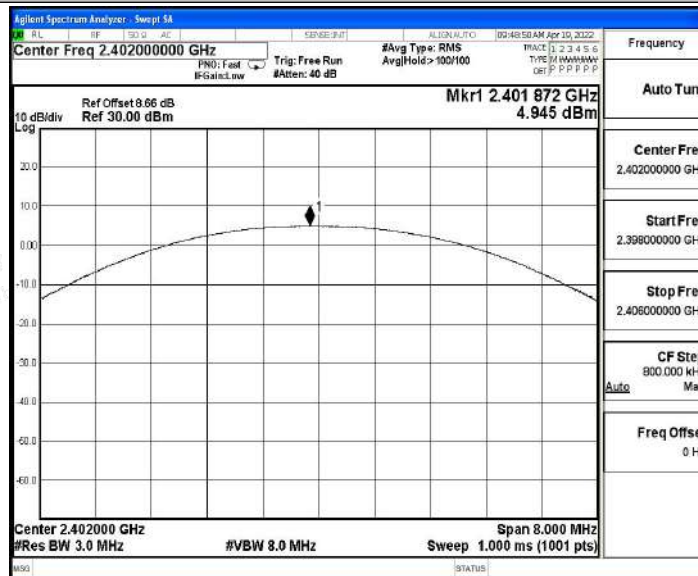
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.95	≤20.97	PASS
		2441	5.36	≤20.97	PASS
		2480	5.36	≤20.97	PASS
2DH5	Ant1	2402	4.74	≤20.97	PASS
		2441	5.2	≤20.97	PASS
		2480	5.07	≤20.97	PASS
3DH5	Ant1	2402	4.81	≤20.97	PASS
		2441	5.22	≤20.97	PASS
		2480	5.21	≤20.97	PASS



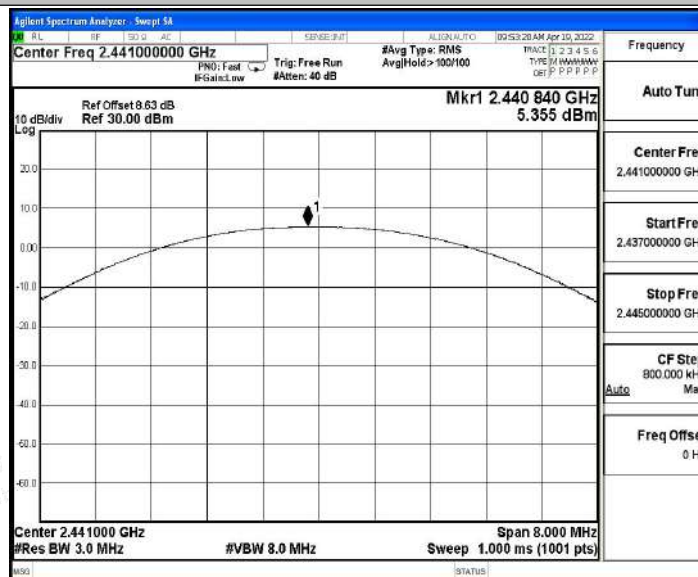


Test Graphs

DH5_Ant1_2402

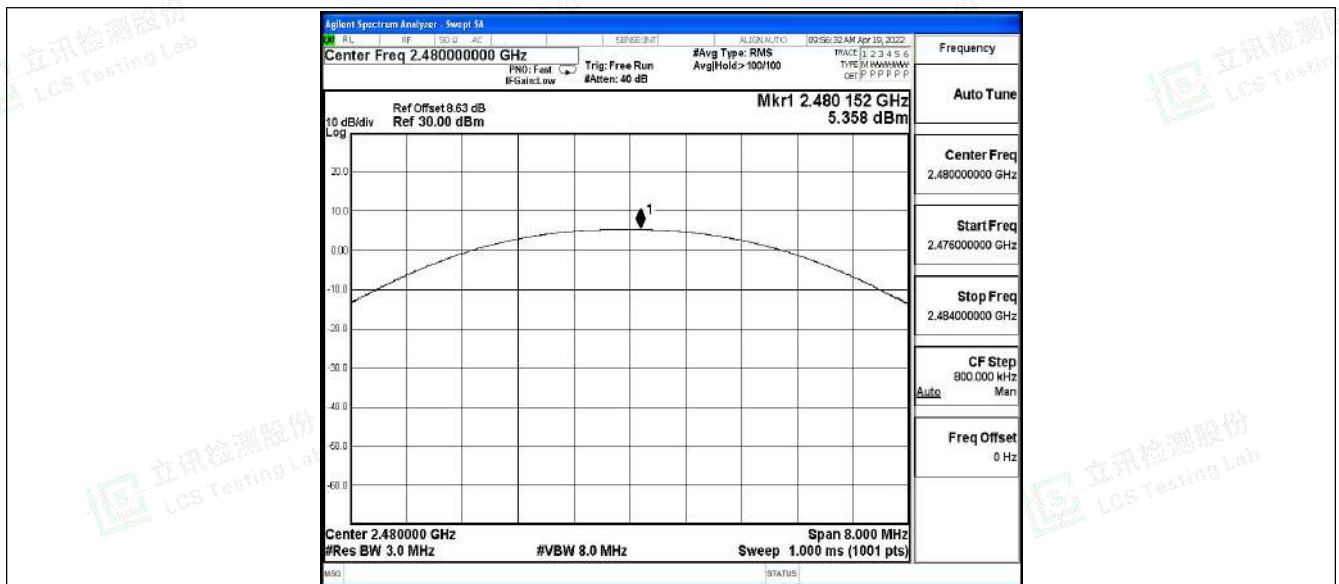


DH5_Ant1_2441

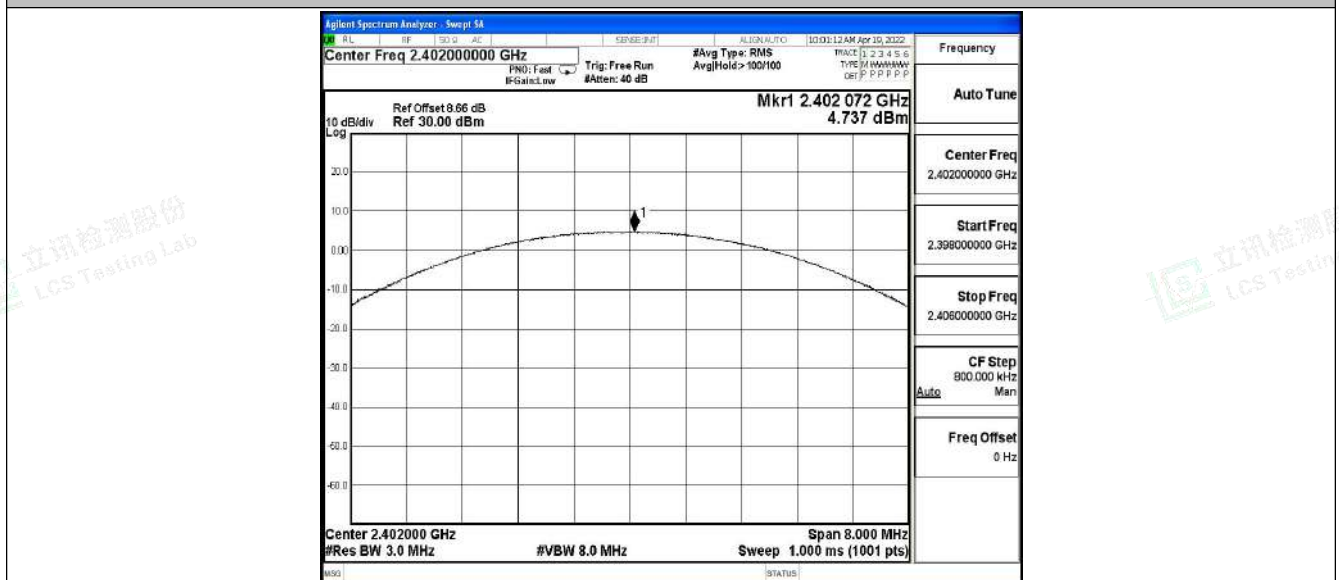


DH5_Ant1_2480



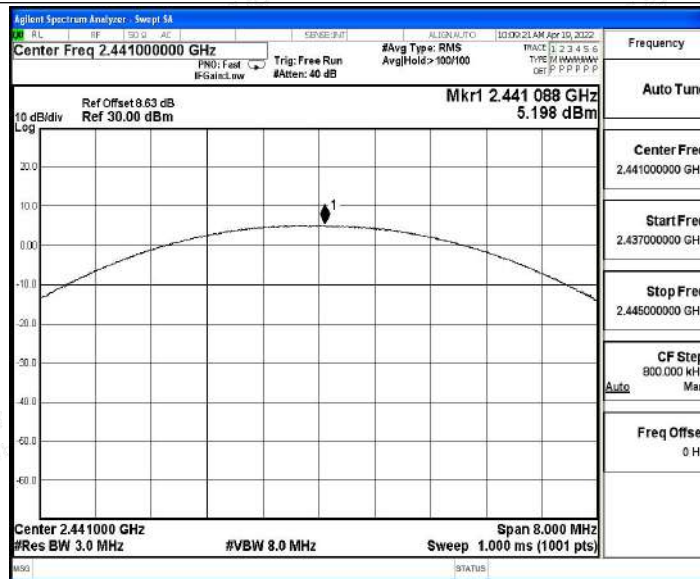


2DH5_Ant1_2402

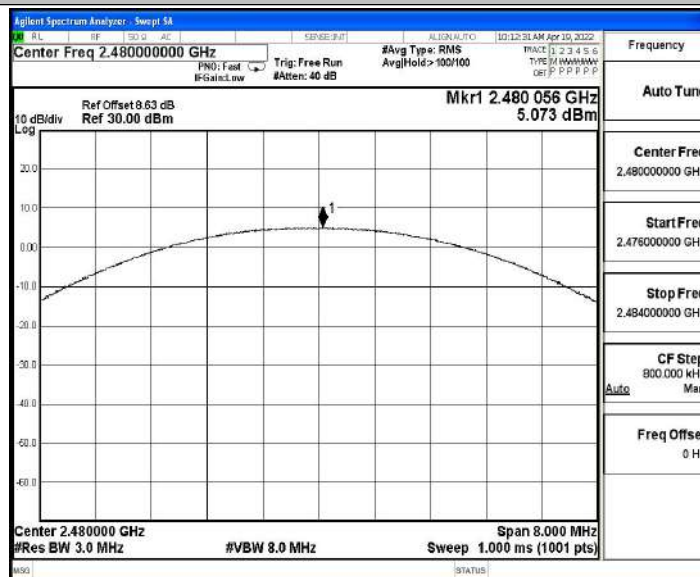


2DH5_Ant1_2441



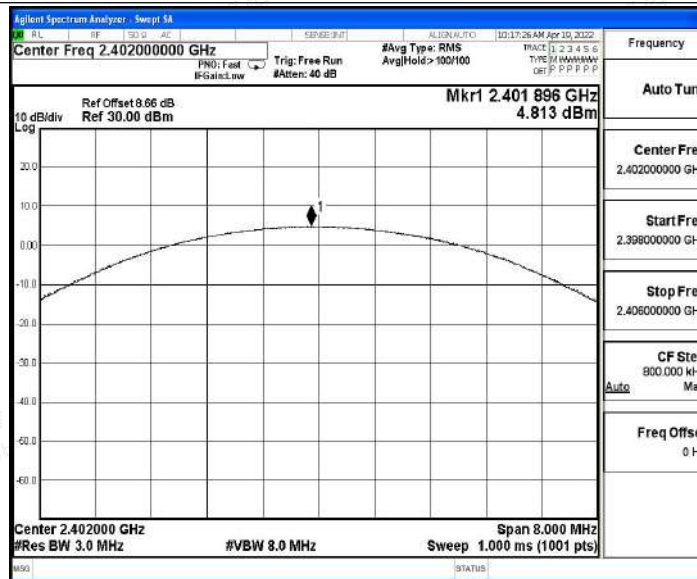


2DH5_Ant1_2480

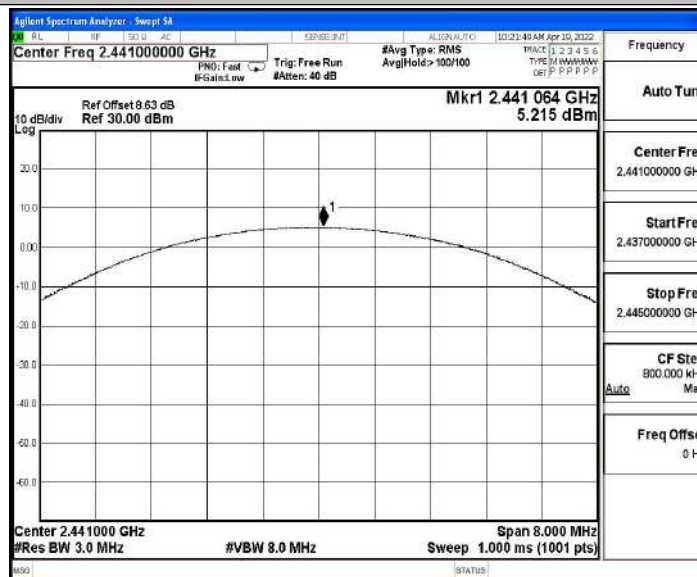


3DH5_Ant1_2402



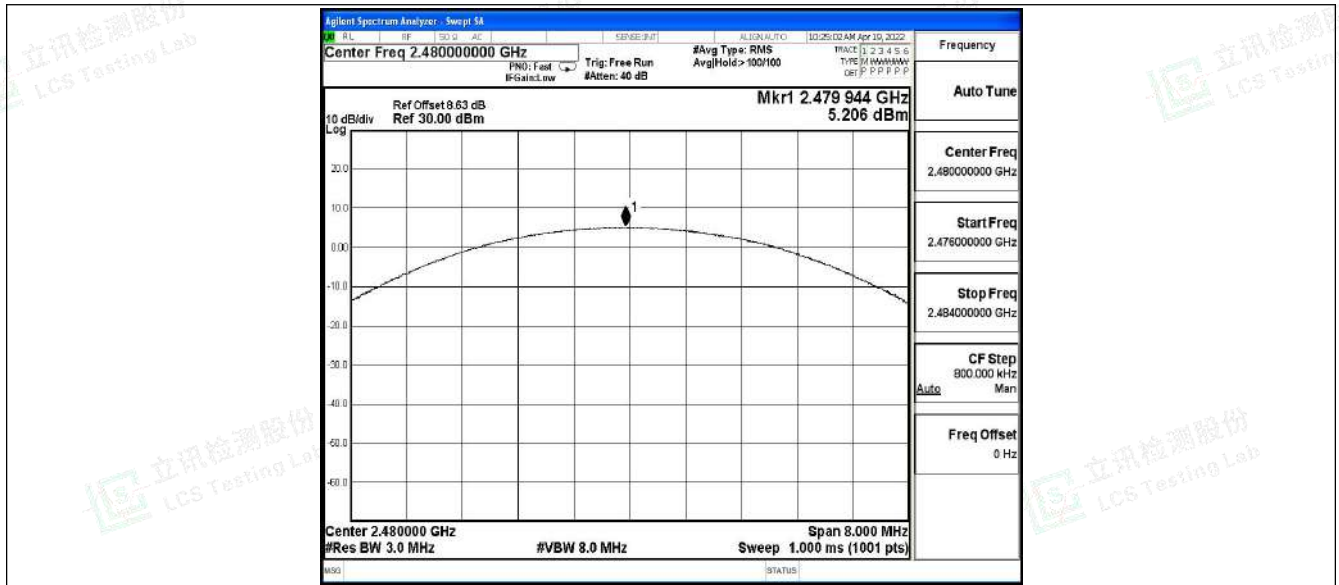


3DH5_Ant1_2441



3DH5_Ant1_2480







A.4 Carrier frequency separation

Test Result

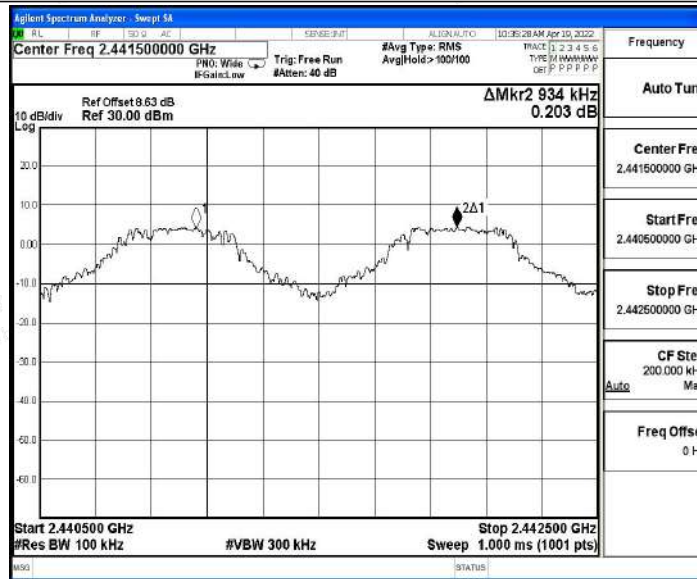
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.934	≥ 0.696	PASS
2DH5	Ant1	Hop	1.164	≥ 0.864	PASS
3DH5	Ant1	Hop	1.178	≥ 0.870	PASS



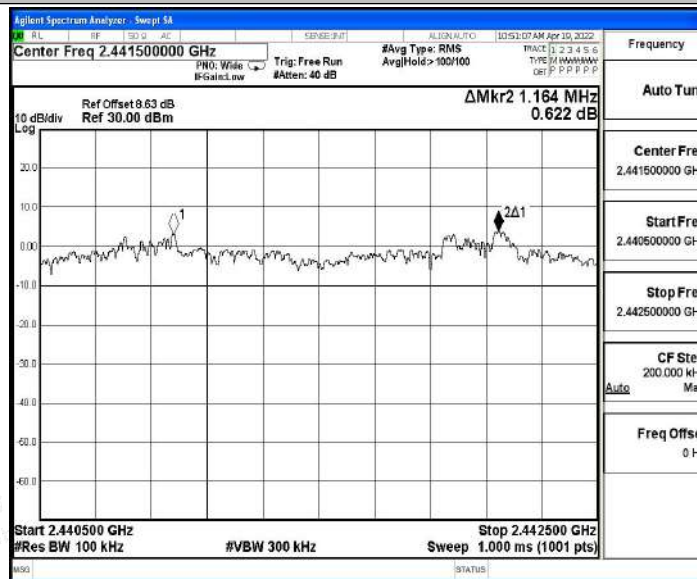


Test Graphs

DH5_Ant1_Hop

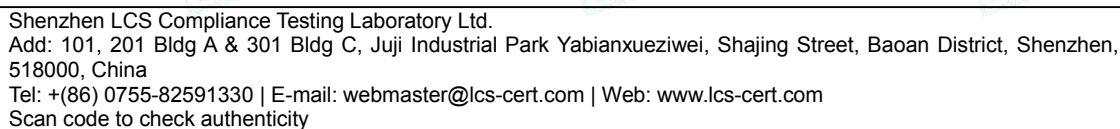
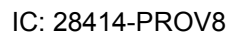


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Time of occupancy

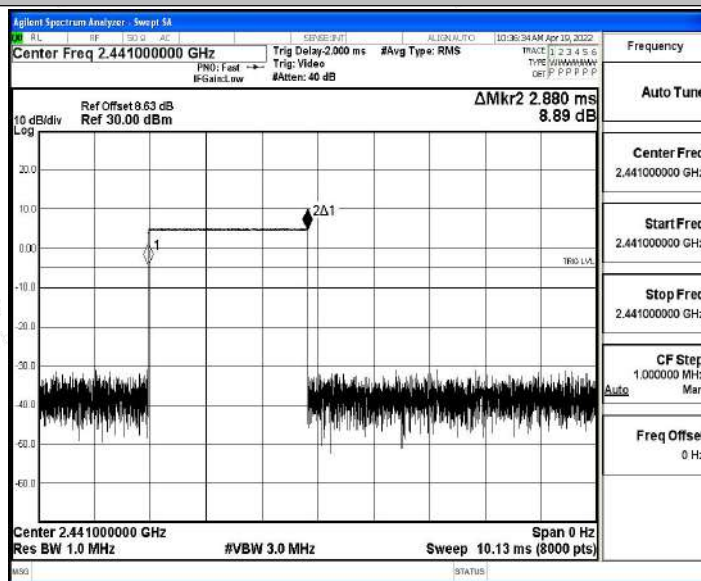
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs



Agilent Spectrum Analyzer - Sweep 5A

Center Freq 2.441000000 GHz

Trig Delay: 2.000 ms #Avg Type: RMS

Ref Offset: 9.63 dB Ref 30.00 dBm

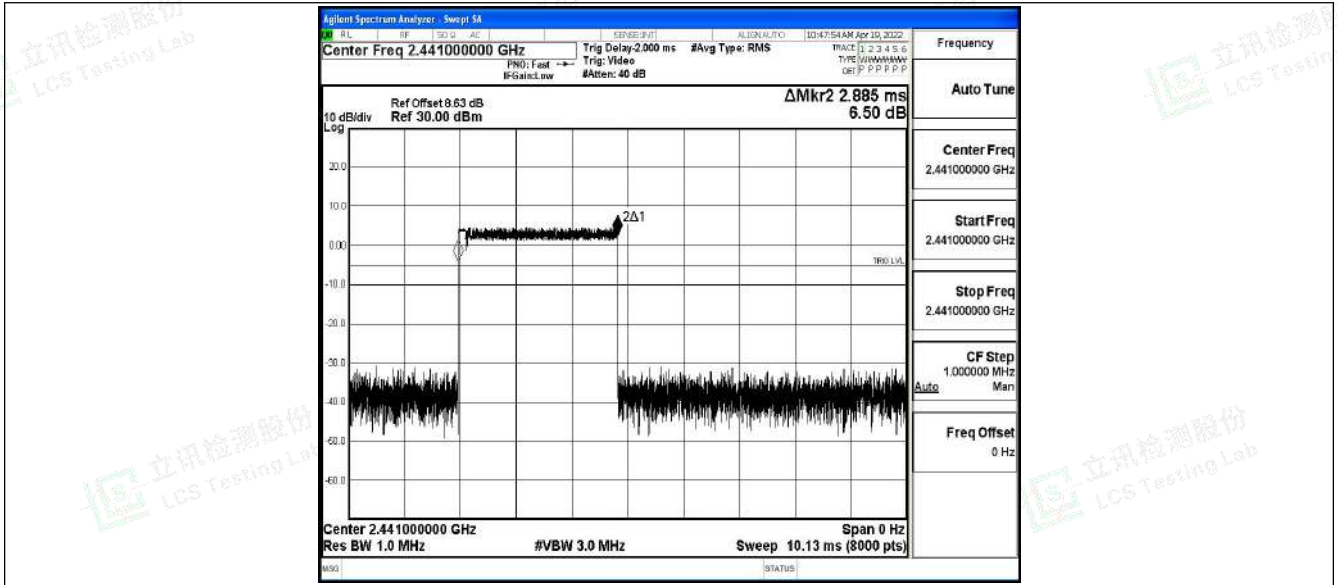
ΔMkr2 2.884 ms 6.47 dB

Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts)

3DH5 Ant1 Hop



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A.6 Number of hopping channels

Test Result

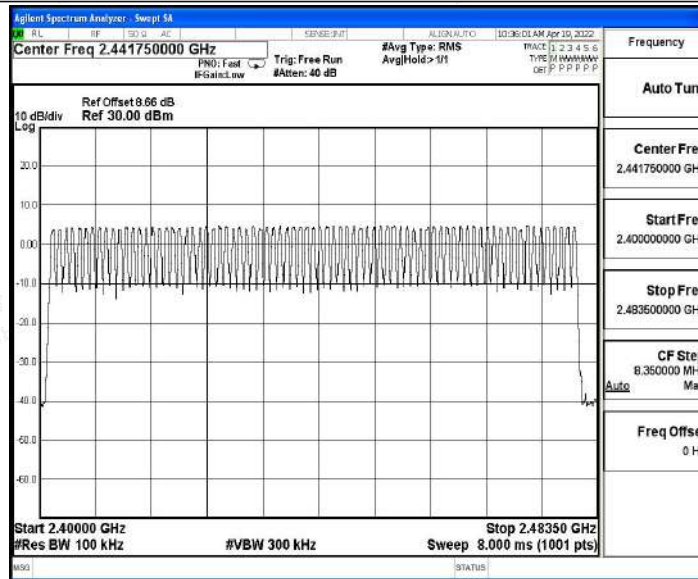
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS



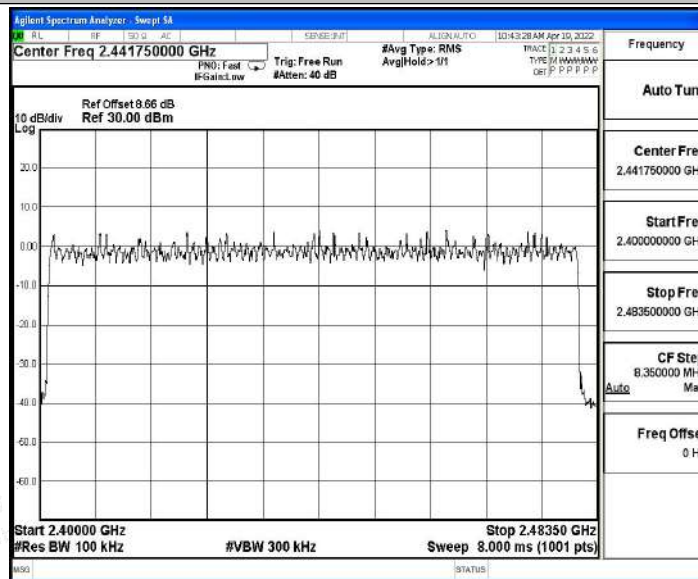


Test Graphs

DH5_Ant1_Hop

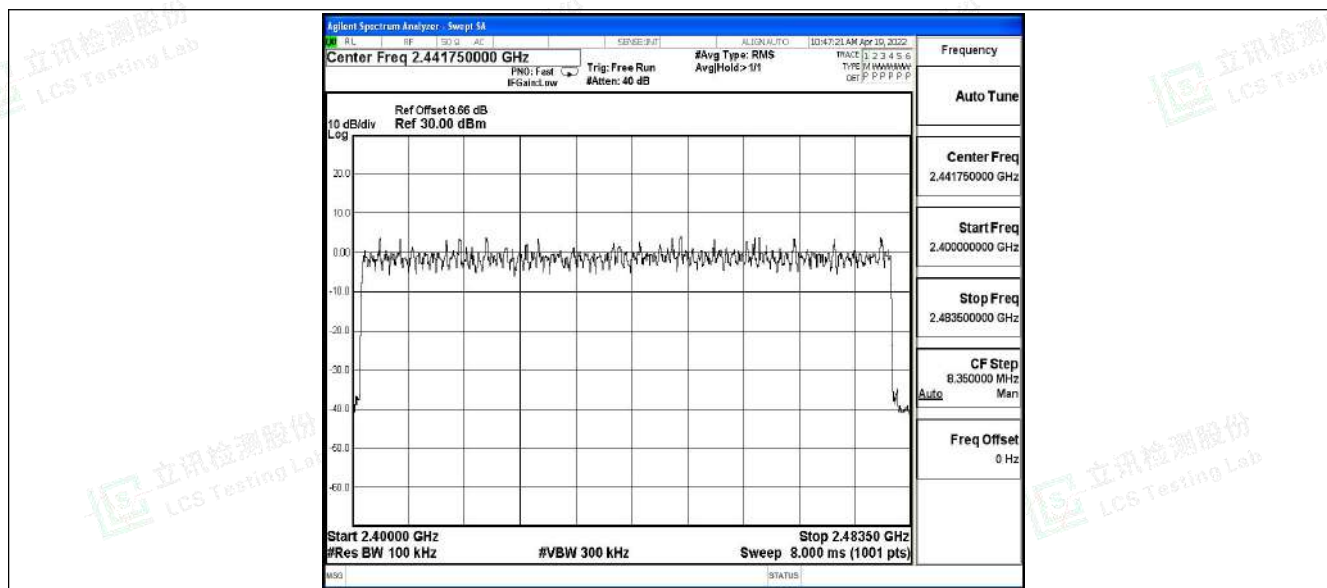


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.7 Band edge measurements

Test Result

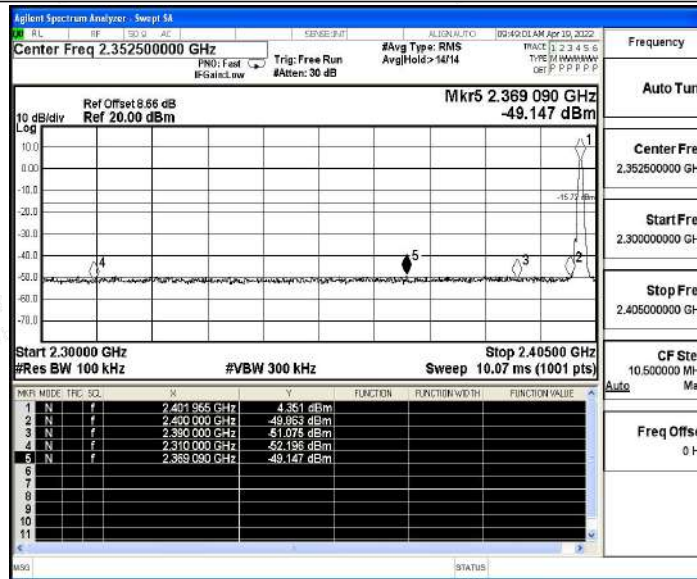
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.28	-49.15	≤ -15.72	PASS
		High	2480	4.89	-47.82	≤ -15.11	PASS
		Low	Hop_2402	3.71	-49.15	≤ -16.29	PASS
		High	Hop_2480	4.67	-47.95	≤ -15.33	PASS
2DH5	Ant1	Low	2402	0.50	-48.59	≤ -19.5	PASS
		High	2480	3.85	-47.79	≤ -16.15	PASS
		Low	Hop_2402	2.58	-49.01	≤ -17.42	PASS
		High	Hop_2480	3.69	-47.96	≤ -16.31	PASS
3DH5	Ant1	Low	2402	3.17	-48.99	≤ -16.83	PASS
		High	2480	3.85	-48.42	≤ -16.15	PASS
		Low	Hop_2402	-0.59	-49.25	≤ -20.59	PASS
		High	Hop_2480	3.76	-47.62	≤ -16.24	PASS



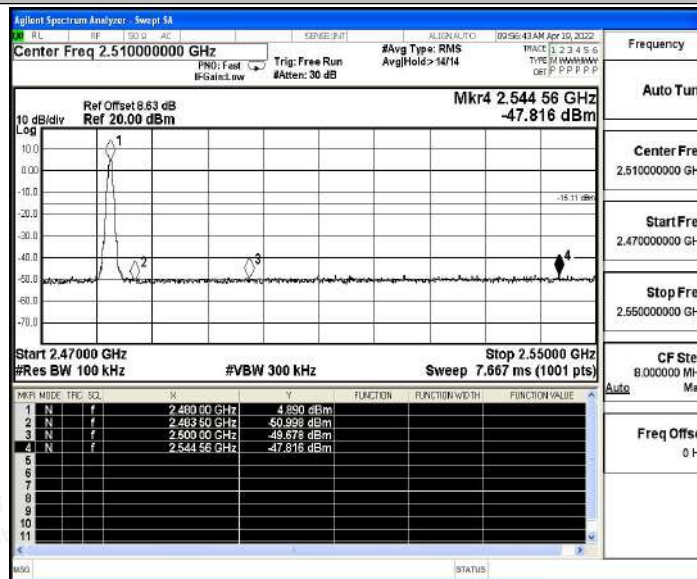


Test Graphs

DH5_Ant1_Low_2402

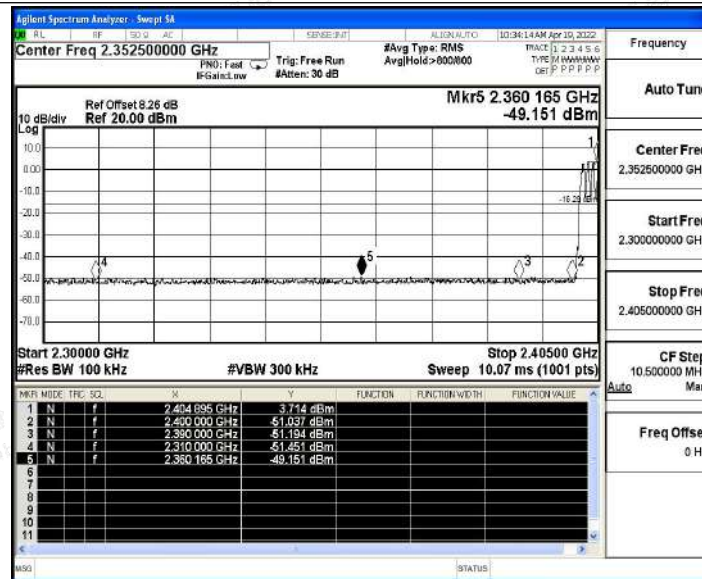


DH5_Ant1_High_2480

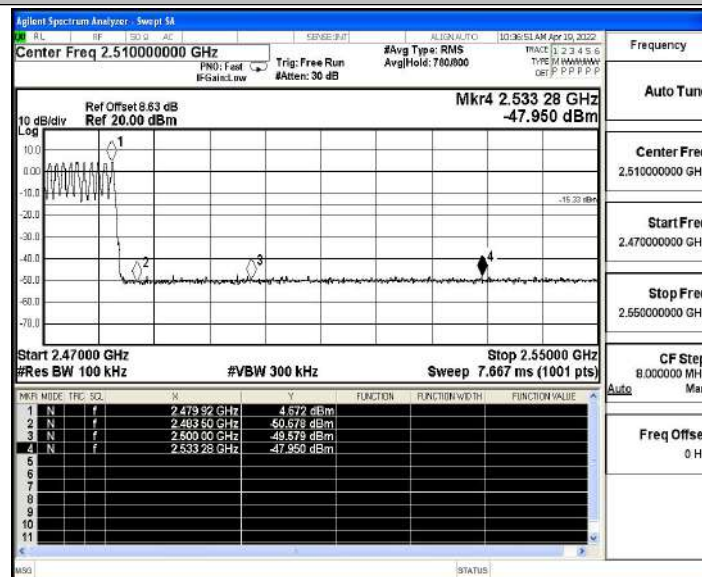


DH5_Ant1_Low_Hop_2402



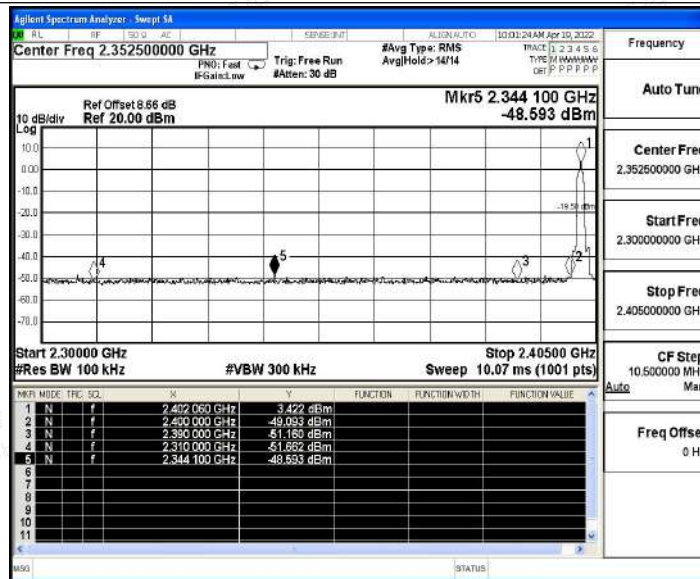


DH5_Ant1_High_Hop_2480

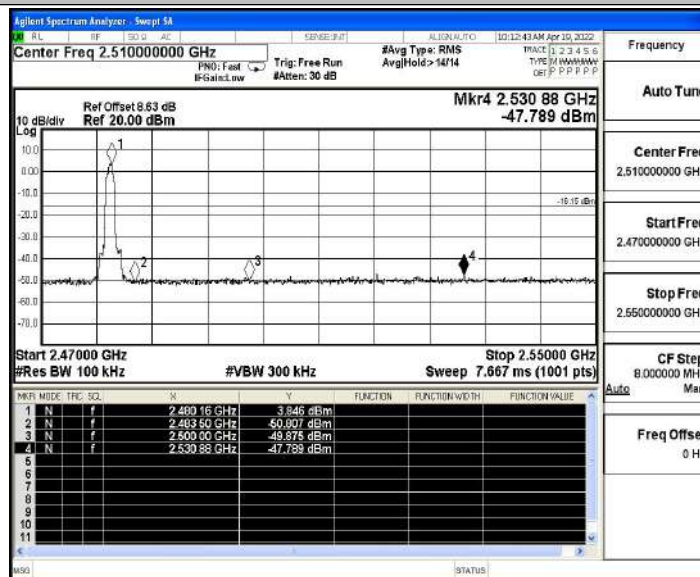


2DH5_Ant1_Low_2402



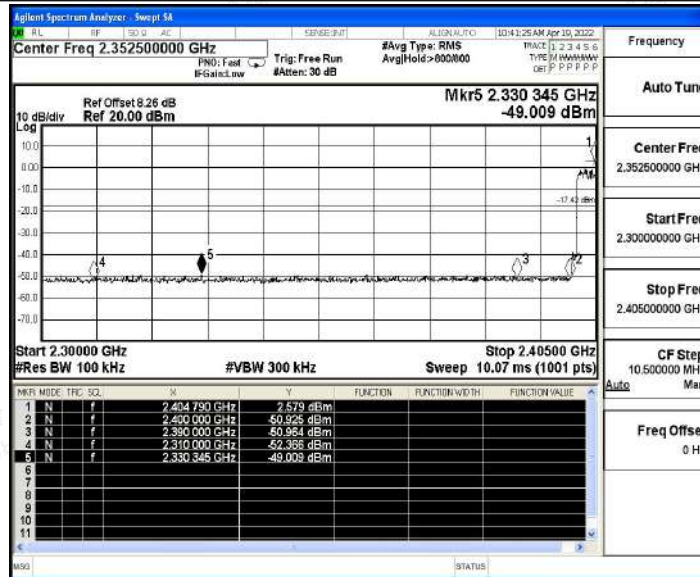


2DH5_Ant1_High_2480

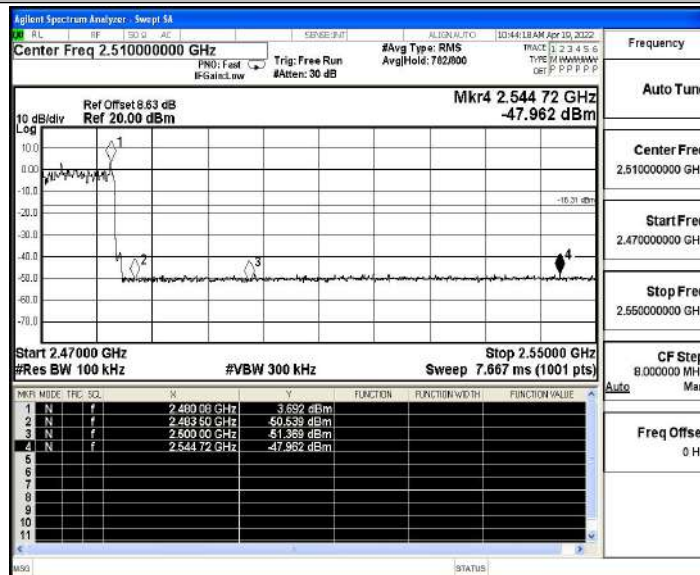


2DH5_Ant1_Low_Hop_2402



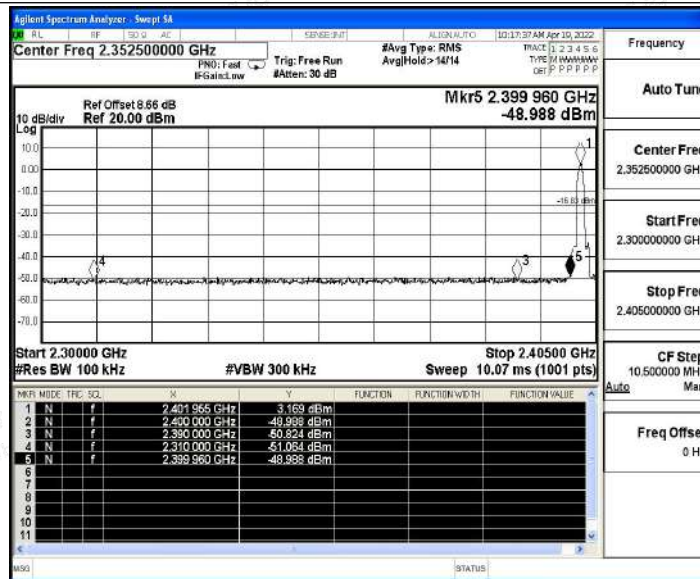


2DH5_Ant1_High_Hop_2480

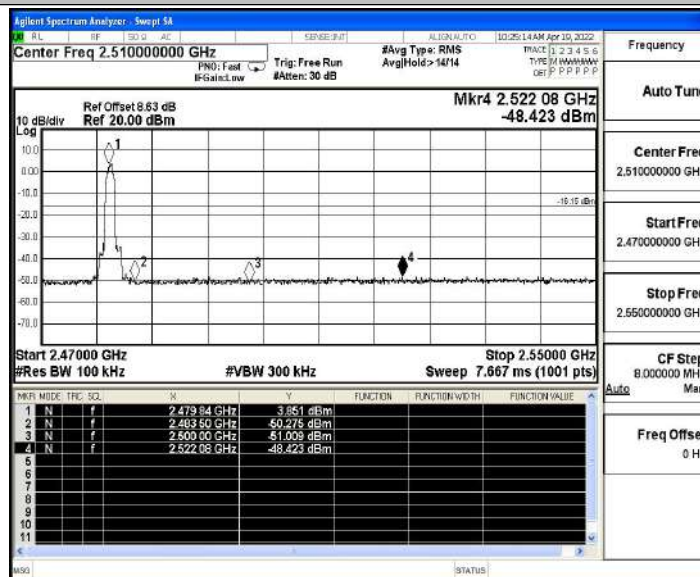


3DH5_Ant1_Low_2402



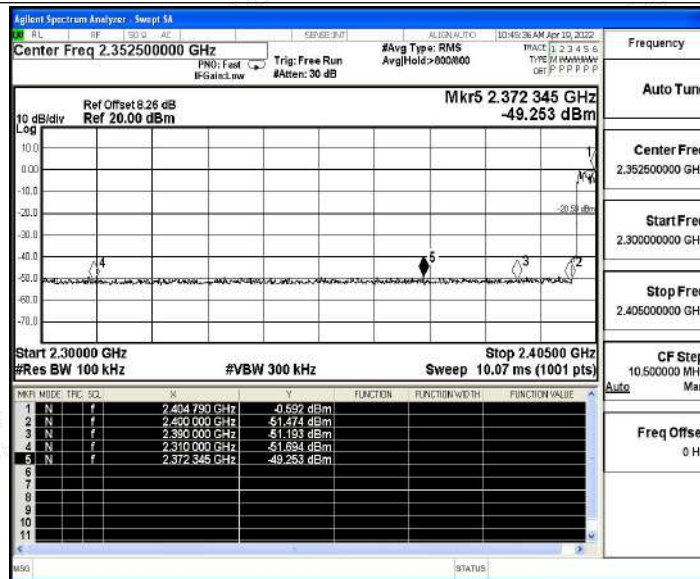


3DH5_Ant1_High_2480

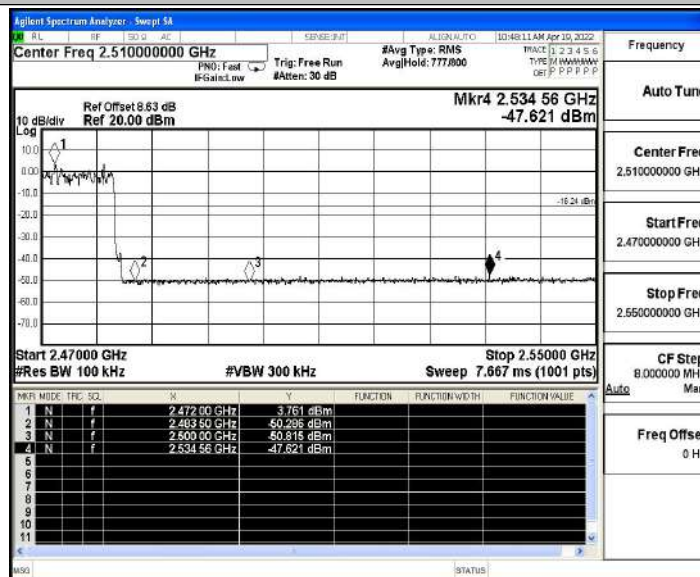


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.8 Conducted Spurious Emission

Test Result

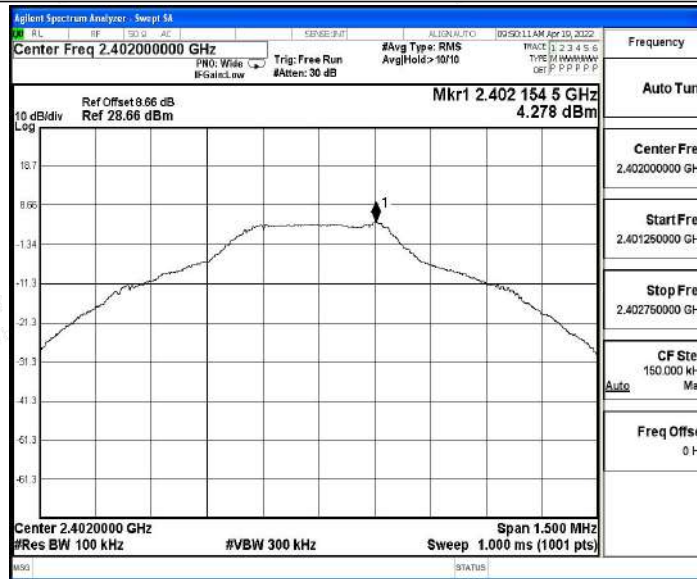
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-60.46	≤ -15.72	PASS
			1000~26500	4.28	-45.61	≤ -15.72	PASS
		2441	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-57.89	≤ -15.2	PASS
			1000~26500	4.80	-45.89	≤ -15.2	PASS
		2480	Reference	4.72	4.72	---	PASS
			30~1000	4.72	-60.63	≤ -15.28	PASS
			1000~26500	4.72	-46.32	≤ -15.28	PASS
2DH5	Ant1	2402	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-60.61	≤ -16.44	PASS
			1000~26500	3.56	-46.16	≤ -16.44	PASS
		2441	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-44.77	≤ -16.28	PASS
			1000~26500	3.72	-45.58	≤ -16.28	PASS
		2480	Reference	3.70	3.70	---	PASS
			30~1000	3.70	-56.89	≤ -16.3	PASS
			1000~26500	3.70	-46.41	≤ -16.3	PASS
3DH5	Ant1	2402	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-60.23	≤ -16.45	PASS
			1000~26500	3.55	-46.17	≤ -16.45	PASS
		2441	Reference	3.86	3.86	---	PASS
			30~1000	3.86	-59.73	≤ -16.14	PASS
			1000~26500	3.86	-44.9	≤ -16.14	PASS
		2480	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-58.5	≤ -16.27	PASS
			1000~26500	3.73	-44.43	≤ -16.27	PASS



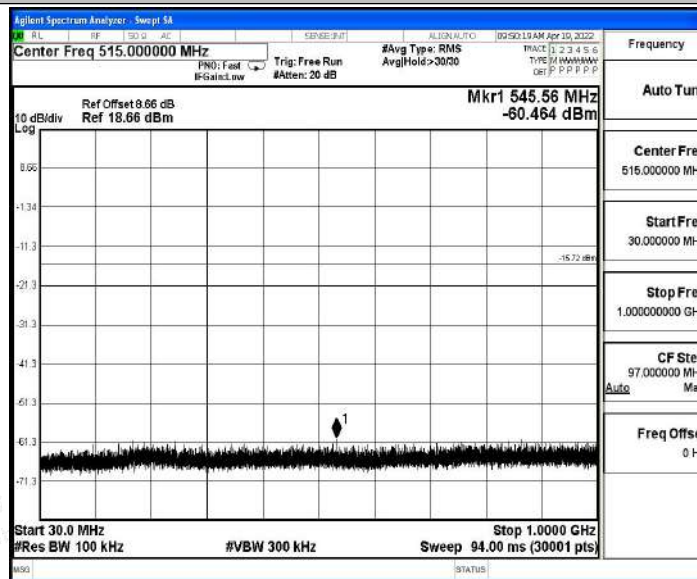


Test Graphs

DH5_Ant1_2402_0~Reference

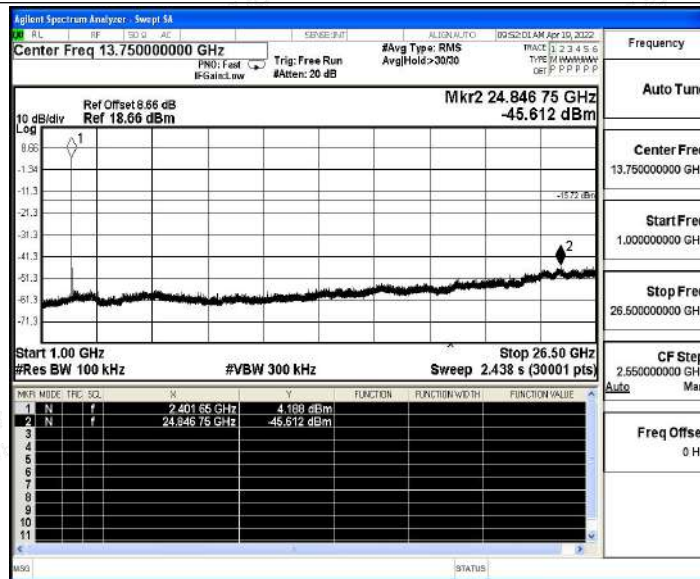


DH5_Ant1_2402_30~1000

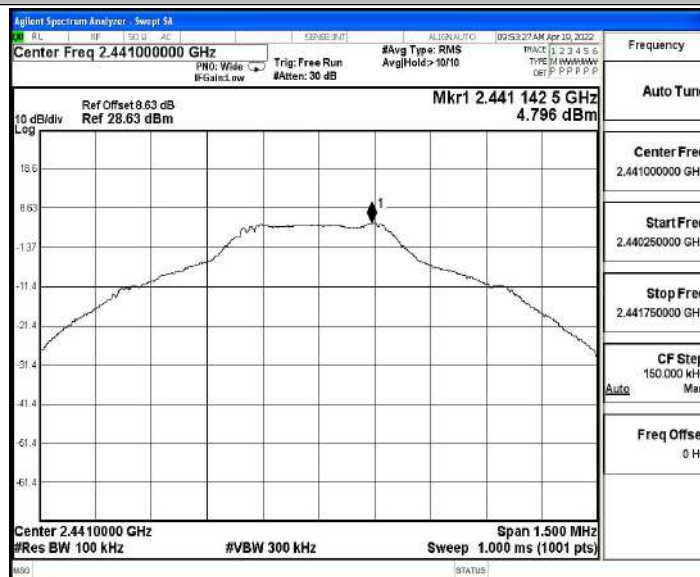


DH5_Ant1_2402_1000~26500



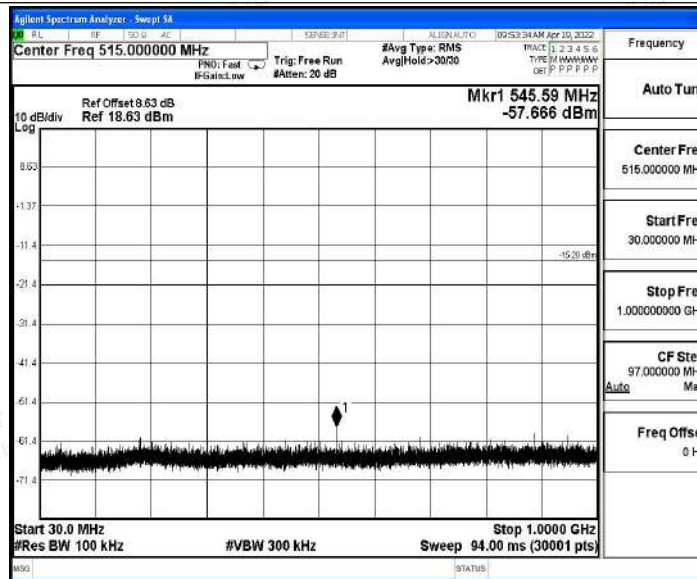


DH5_Ant1_2441_0~Reference

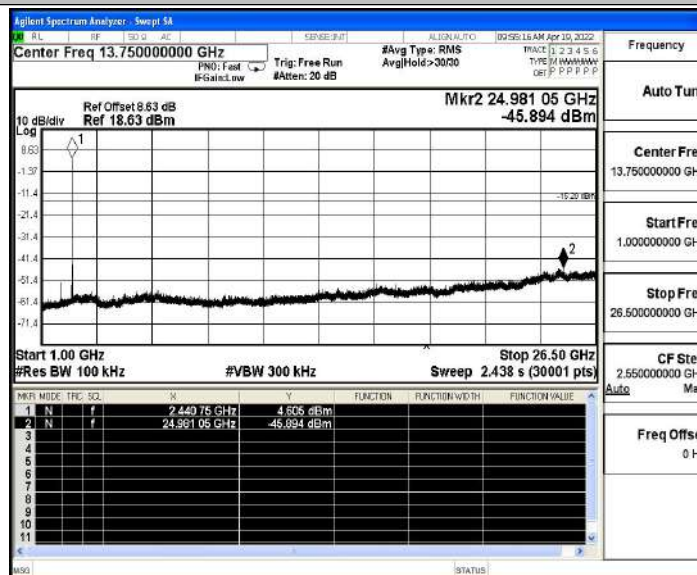


DH5_Ant1_2441_30~1000



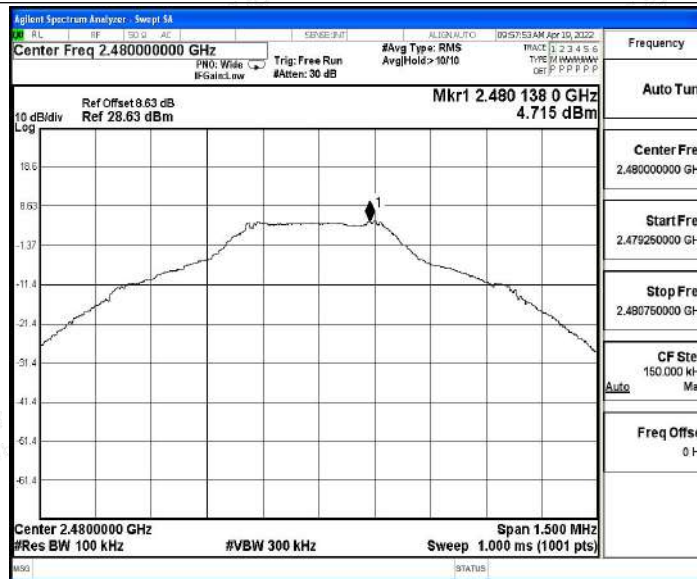


DH5_Ant1_2441_1000~26500

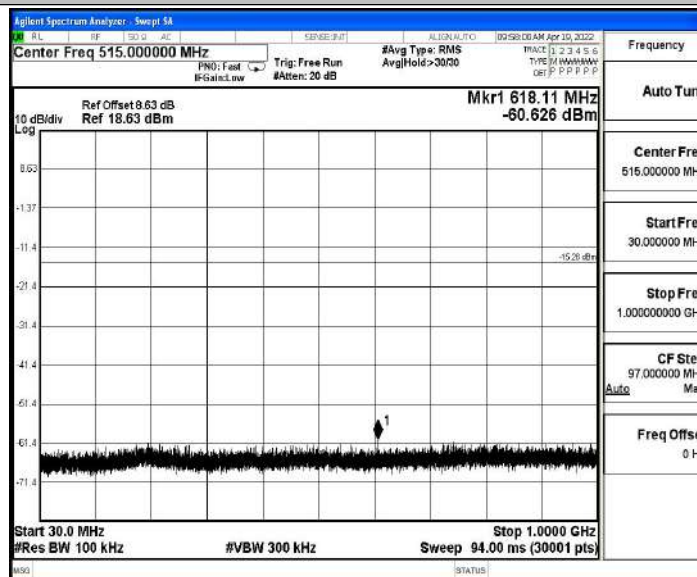


DH5_Ant1_2480_0~Reference



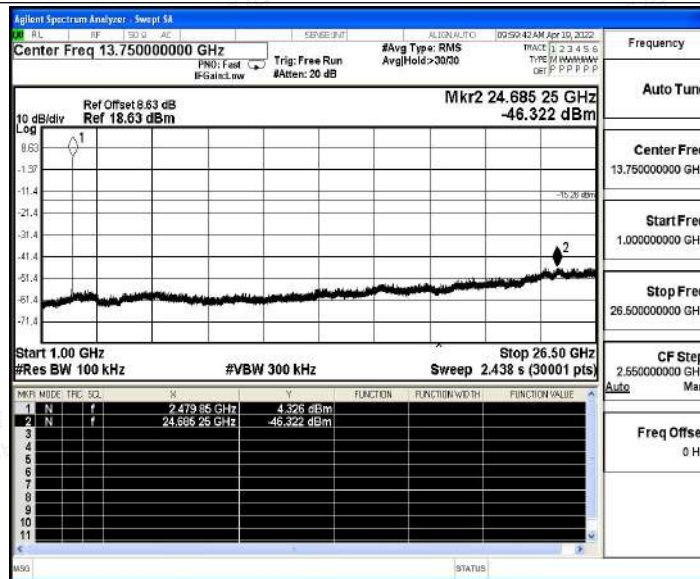


DH5_Ant1_2480_30~1000

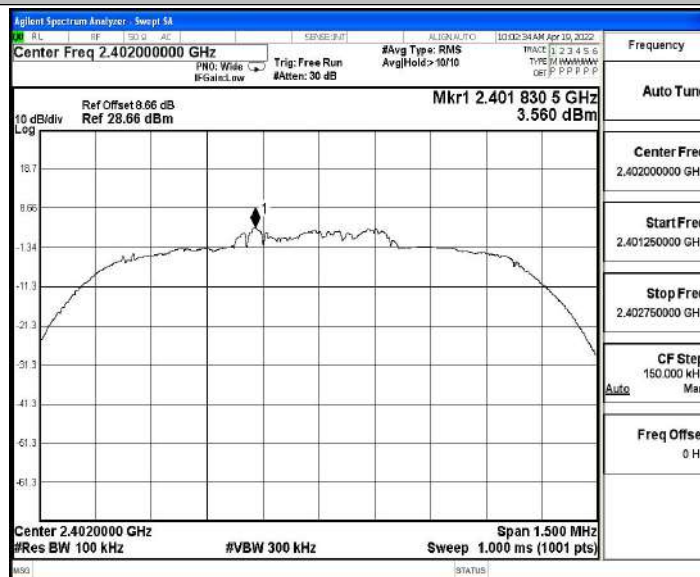


DH5_Ant1_2480_1000~26500



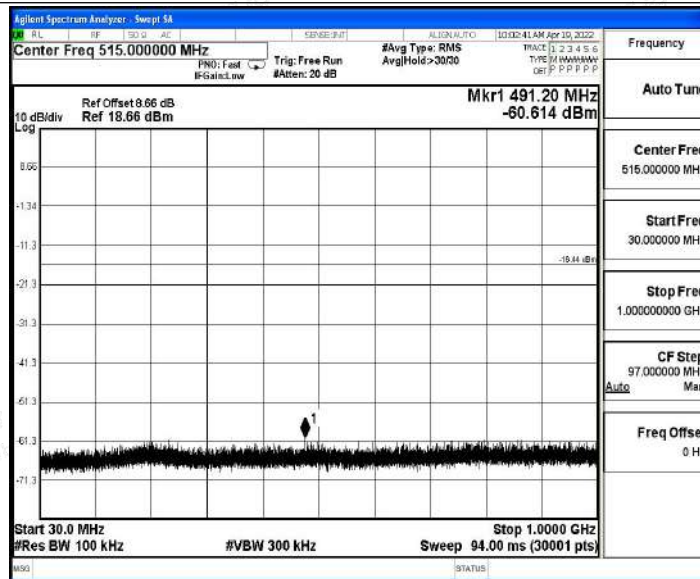


2DH5_Ant1_2402_0~Reference

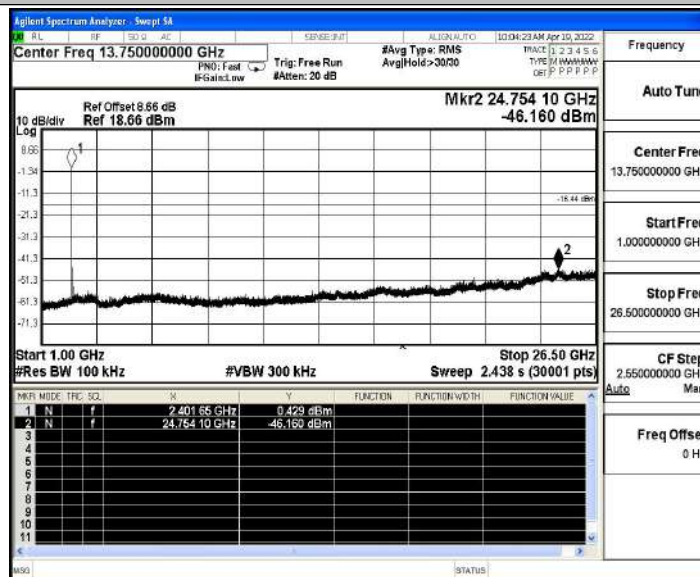


2DH5_Ant1_2402_30~1000



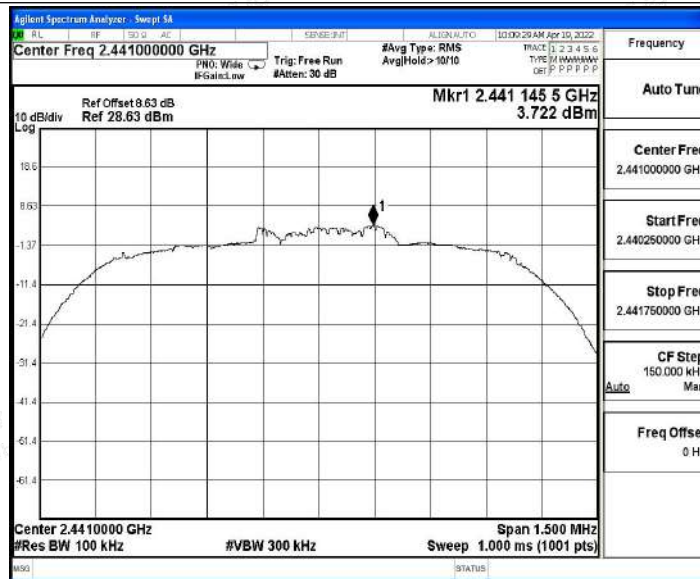


2DH5_Ant1_2402_1000~26500

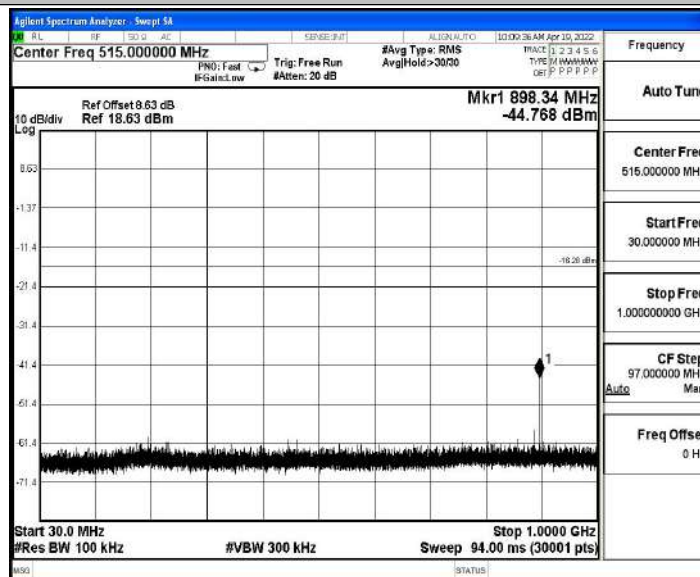


2DH5_Ant1_2441_0~Reference



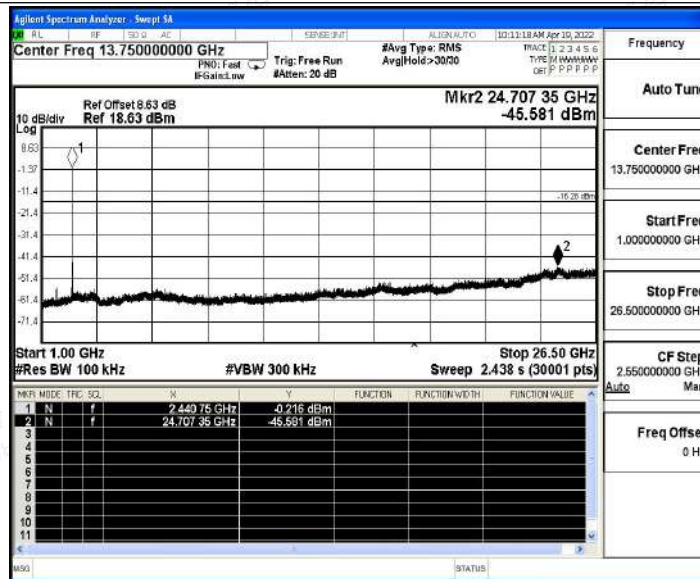


2DH5_Ant1_2441_30~1000

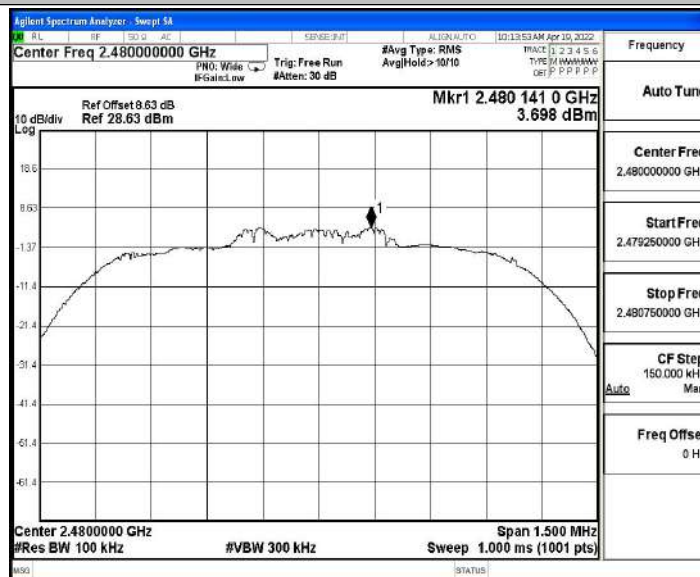


2DH5_Ant1_2441_1000~26500



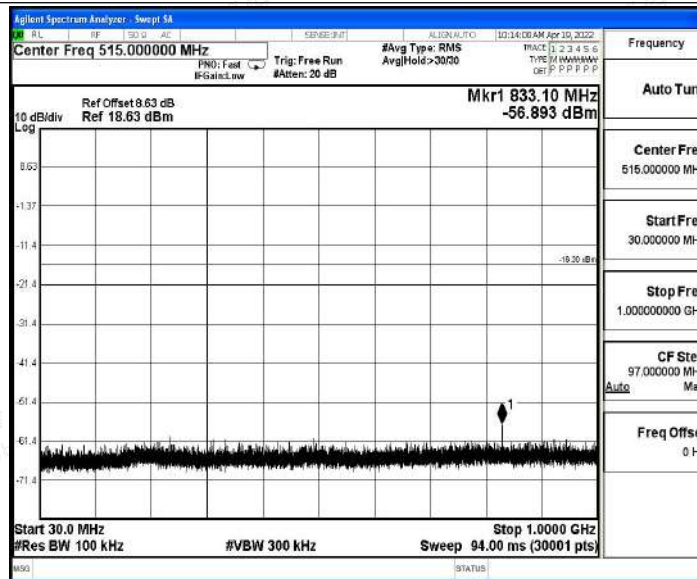


2DH5_Ant1_2480_0~Reference

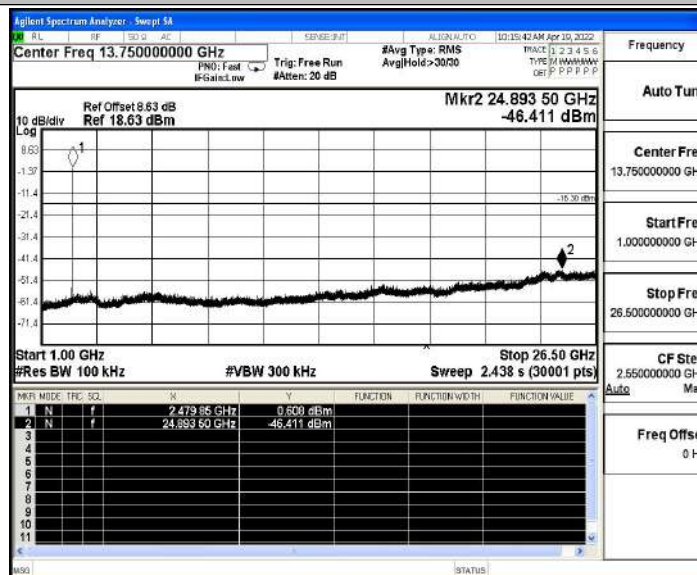


2DH5_Ant1_2480_30~1000



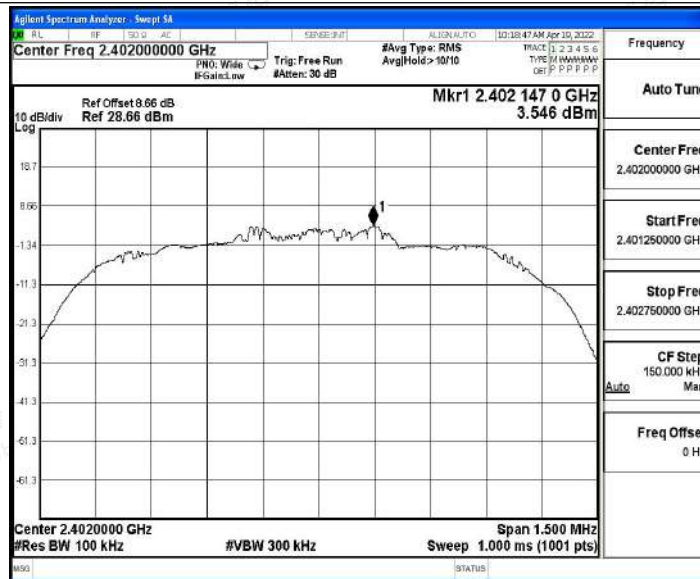


2DH5_Ant1_2480_1000~26500

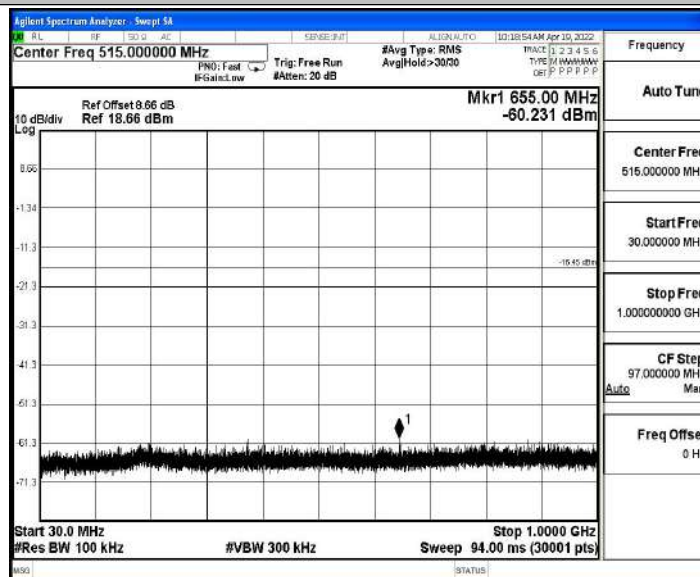


3DH5_Ant1_2402_0~Reference



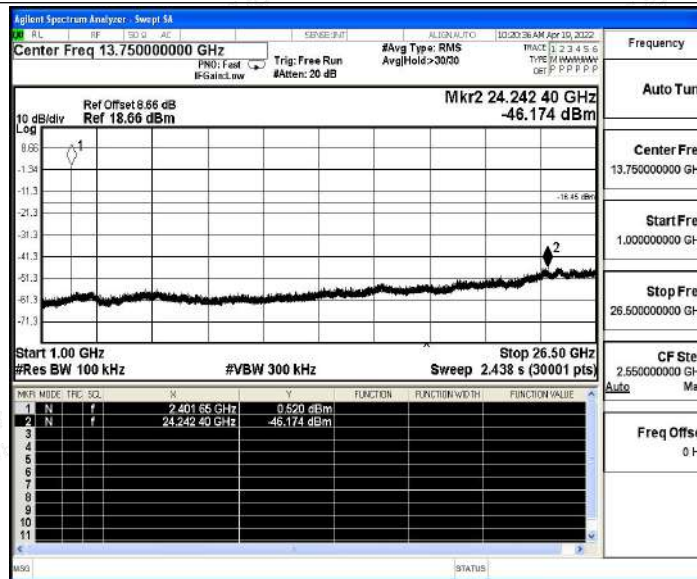


3DH5_Ant1_2402_30~1000

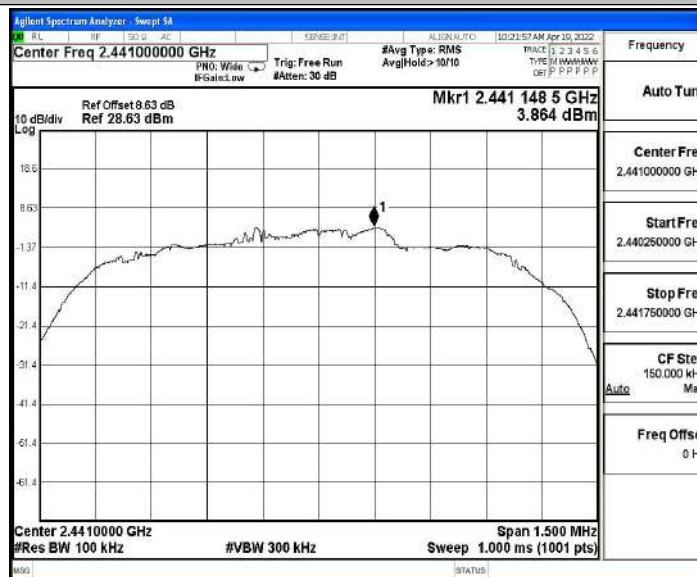


3DH5_Ant1_2402_1000~26500



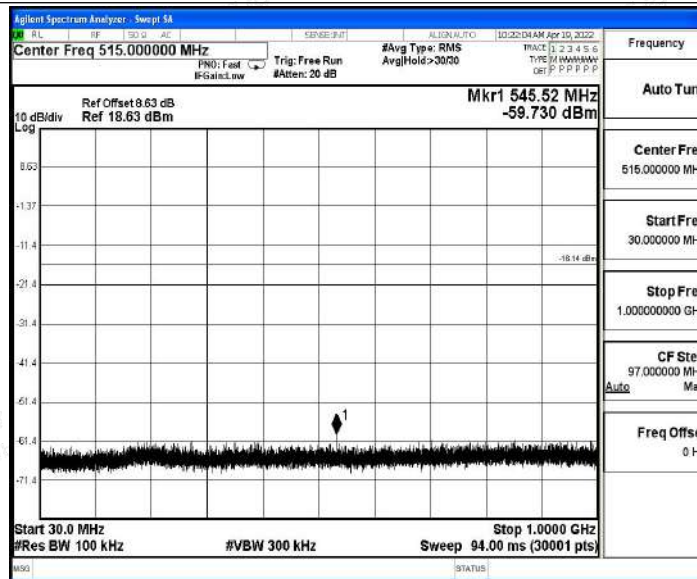


3DH5_Ant1_2441_0~Reference

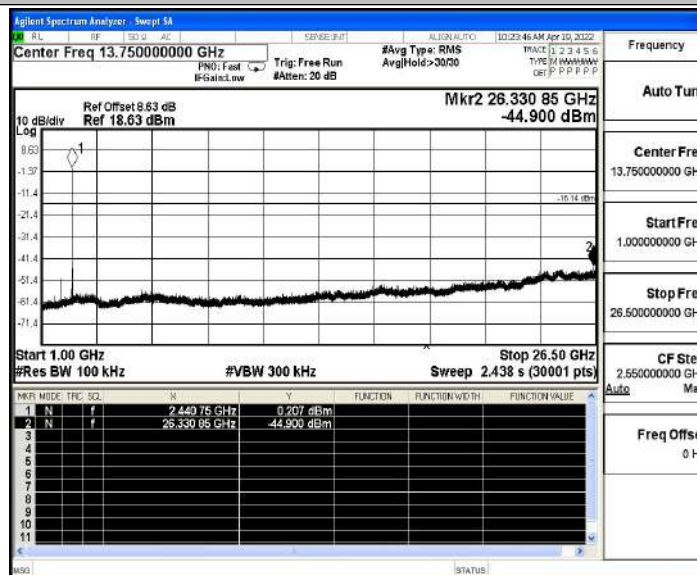


3DH5_Ant1_2441_30~1000



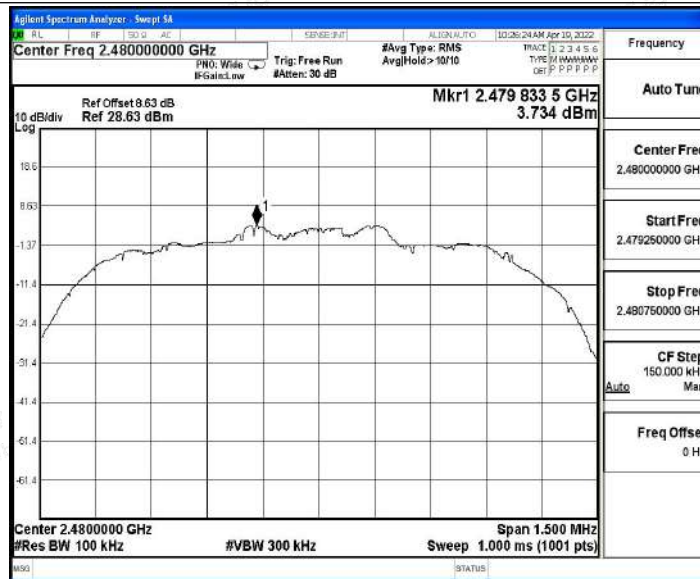


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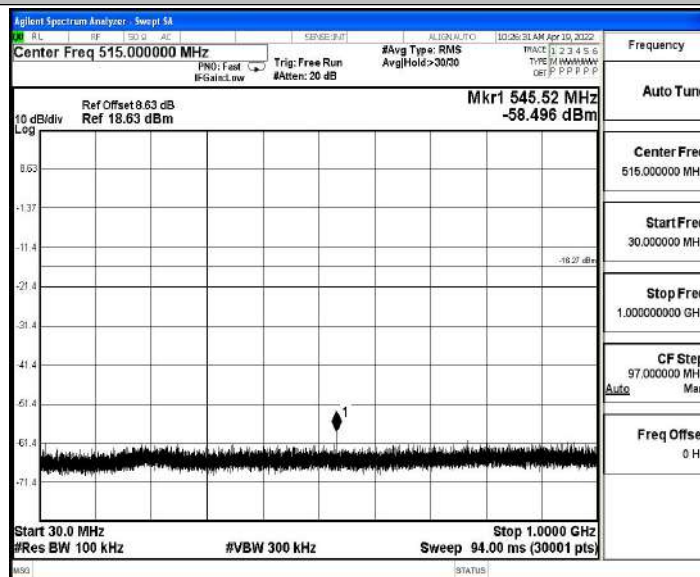


3DH5_Ant1_2480_0~Reference



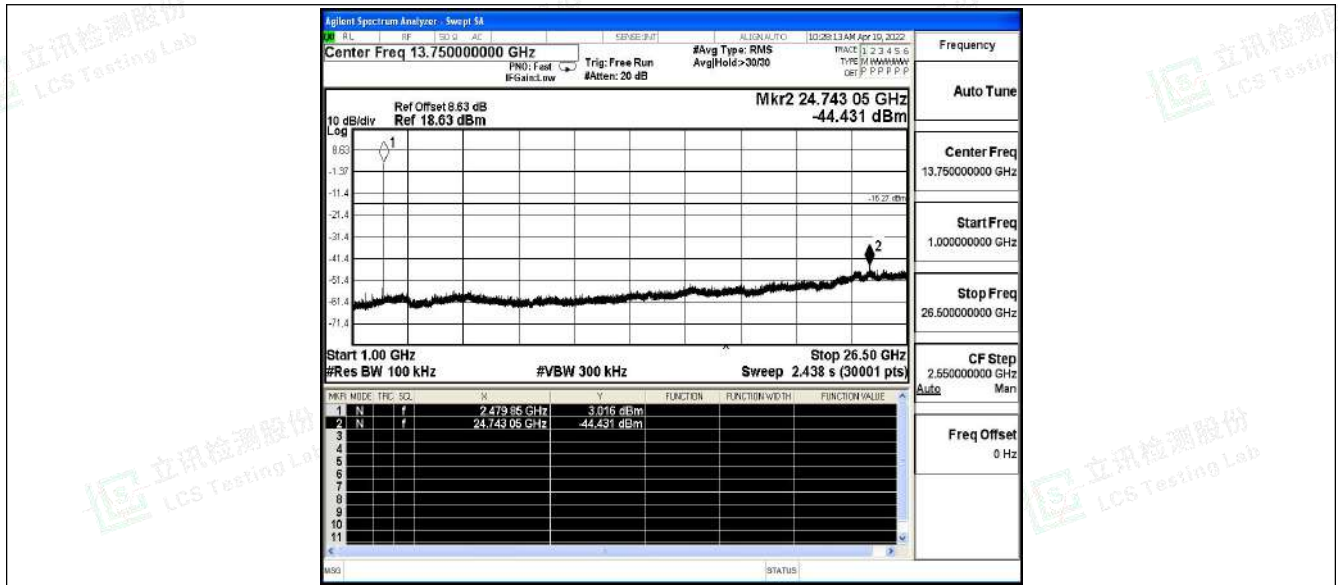


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.29	≤-41.20	46.91	≤54	PASS
				AV	2389.460	-47.78	≤-41.20	47.42	≤54	PASS
				AV	2390.000	-47.96	≤-41.20	47.24	≤54	PASS
				Peak	2310.000	-39	≤-21.20	56.20	≤74	PASS
				Peak	2374.760	-36.59	≤-21.20	58.61	≤74	PASS
				Peak	2390.000	-38.79	≤-21.20	56.41	≤74	PASS
		High	2480	AV	2483.500	-46.93	≤-41.20	48.27	≤54	PASS
				AV	2483.520	-46.93	≤-41.20	48.27	≤54	PASS
				AV	2500.000	-47.25	≤-41.20	47.95	≤54	PASS
				Peak	2483.500	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2489.600	-35.92	≤-21.20	59.28	≤74	PASS
				Peak	2500.000	-37.66	≤-21.20	57.54	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2337.170	-37.2	≤-21.20	58.00	≤74	PASS
				Peak	2390.000	-39.32	≤-21.20	55.88	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.4	≤-21.20	56.80	≤74	PASS
				Peak	2492.320	-36.1	≤-21.20	59.10	≤74	PASS
				Peak	2500.000	-37.48	≤-21.20	57.72	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.33	≤-41.20	46.87	≤54	PASS
				AV	2383.580	-47.78	≤-41.20	47.42	≤54	PASS
				AV	2390.000	-47.92	≤-41.20	47.28	≤54	PASS
				Peak	2310.000	-38.94	≤-21.20	56.26	≤74	PASS
				Peak	2335.280	-36.86	≤-21.20	58.34	≤74	PASS
				Peak	2390.000	-38.69	≤-21.20	56.51	≤74	PASS
		High	2480	AV	2483.500	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2483.520	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2500.000	-47.31	≤-41.20	47.89	≤54	PASS
				Peak	2483.500	-37.45	≤-21.20	57.75	≤74	PASS
				Peak	2483.760	-36.46	≤-21.20	58.74	≤74	PASS
				Peak	2500.000	-36.68	≤-21.20	58.52	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2388.935	-36.6	≤-21.20	58.60	≤74	PASS
				Peak	2390.000	-38.56	≤-21.20	56.64	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2492.400	-35.98	≤-21.20	59.22	≤74	PASS





3DH5	Ant1	Low	2402	Peak	2500.000	-37.99	≤ -21.20	57.21	≤ 74	PASS
				AV	2310.000	-48.26	≤ -41.20	46.94	≤ 54	PASS
				AV	2389.880	-47.77	≤ -41.20	47.43	≤ 54	PASS
				AV	2390.000	-47.92	≤ -41.20	47.28	≤ 54	PASS
				Peak	2310.000	-39.47	≤ -21.20	55.73	≤ 74	PASS
				Peak	2389.040	-36.63	≤ -21.20	58.57	≤ 74	PASS
				Peak	2390.000	-38.05	≤ -21.20	57.15	≤ 74	PASS
		High	2480	AV	2483.500	-46.67	≤ -41.20	48.53	≤ 54	PASS
				AV	2483.520	-46.67	≤ -41.20	48.53	≤ 54	PASS
				AV	2500.000	-47.38	≤ -41.20	47.82	≤ 54	PASS
				Peak	2483.500	-38.4	≤ -21.20	56.80	≤ 74	PASS
				Peak	2492.400	-36.14	≤ -21.20	59.06	≤ 74	PASS
				Peak	2500.000	-37.34	≤ -21.20	57.86	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-39.3	≤ -21.20	55.90	≤ 74	PASS
				Peak	2356.595	-36.61	≤ -21.20	58.59	≤ 74	PASS
				Peak	2390.000	-39.18	≤ -21.20	56.02	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-37.78	≤ -21.20	57.42	≤ 74	PASS
				Peak	2497.360	-36.13	≤ -21.20	59.07	≤ 74	PASS
				Peak	2500.000	-37.29	≤ -21.20	57.91	≤ 74	PASS

Note:

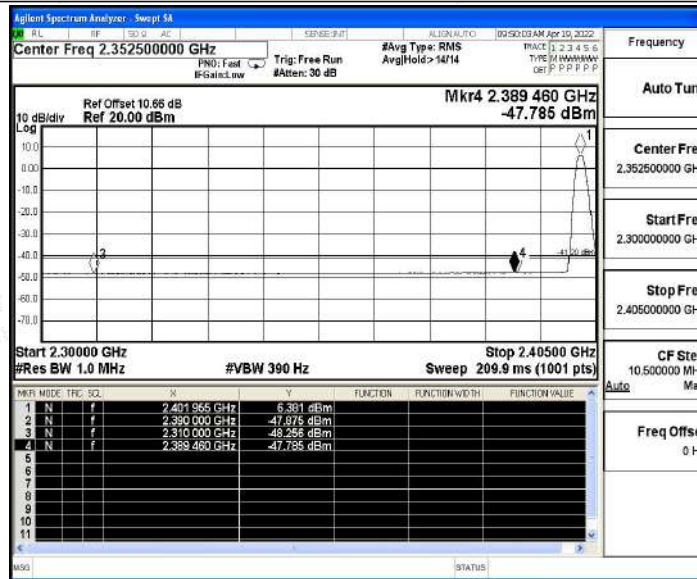
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



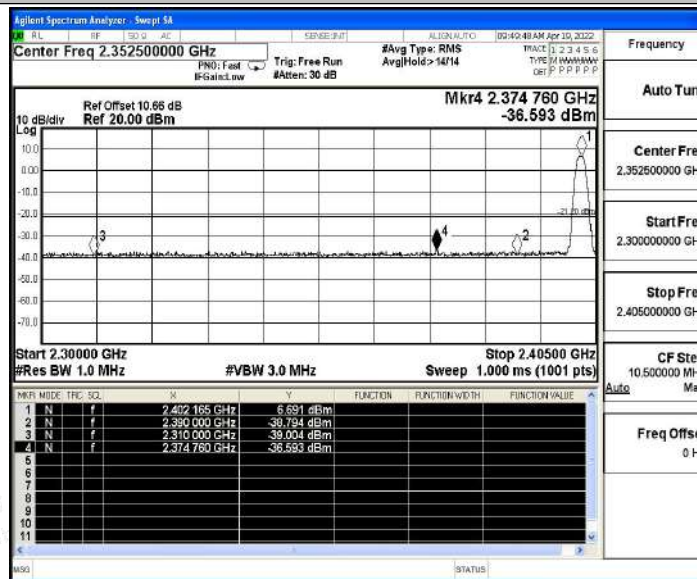


Test Graphs

DH5_Ant1_Low_2402_AV

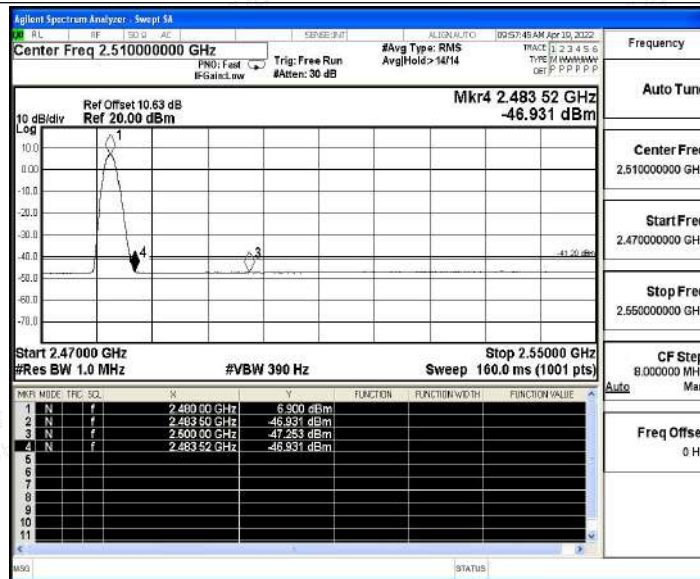


DH5_Ant1_Low_2402_Peak

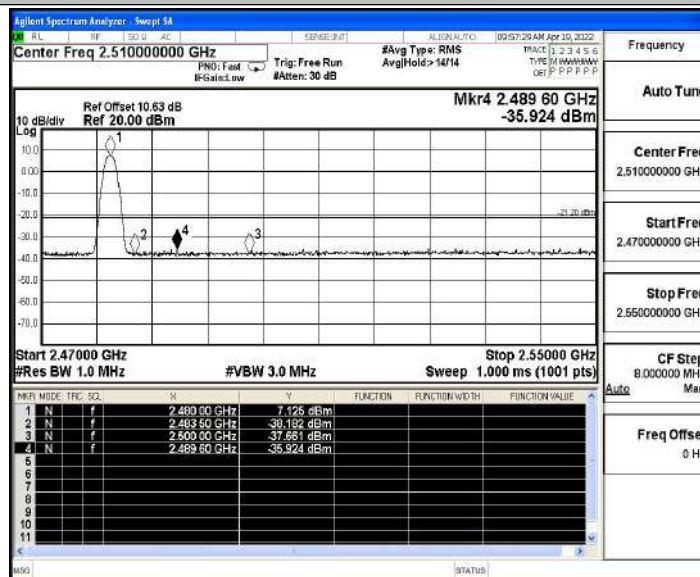


DH5_Ant1_High_2480_AV



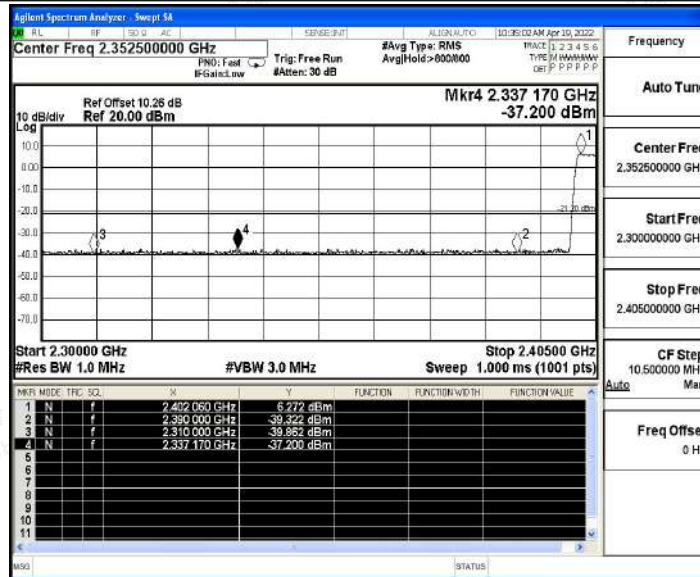


DH5_Ant1_High_2480_Peak

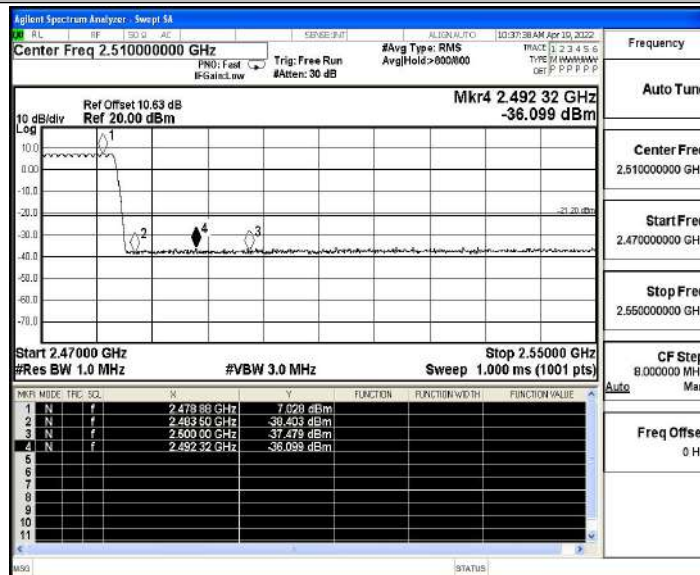


DH5_Ant1_Low_Hop_2402_Peak



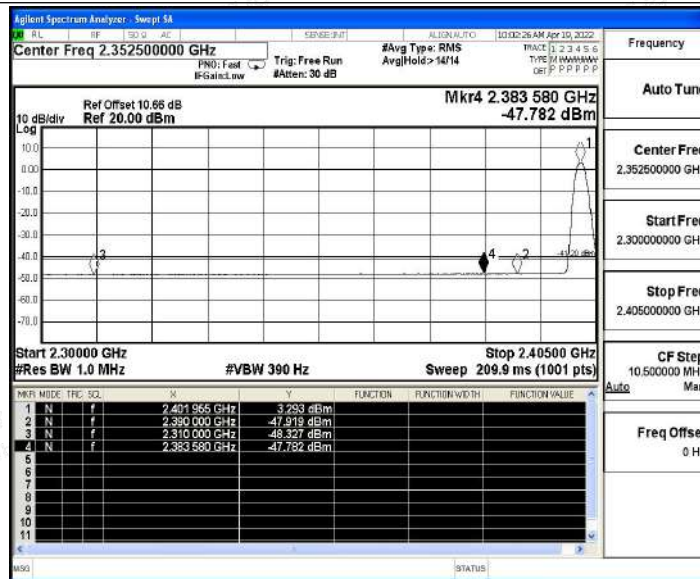


DH5_Ant1_High_Hop_2480_Peak

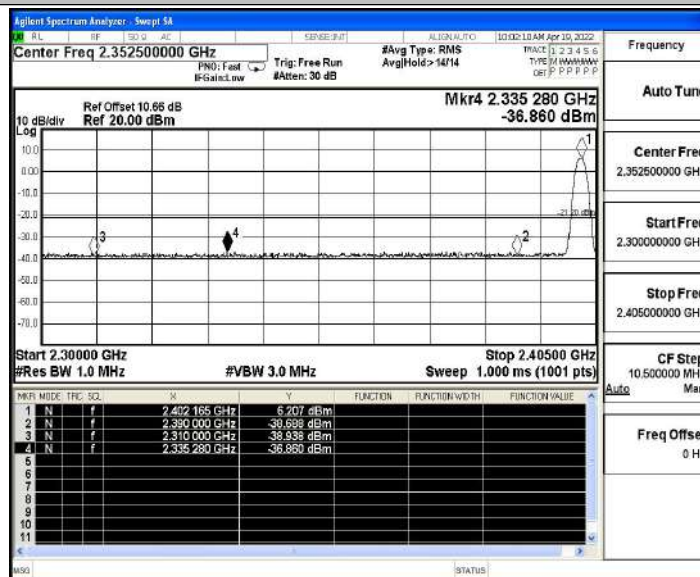


2DH5_Ant1_Low_2402_AV



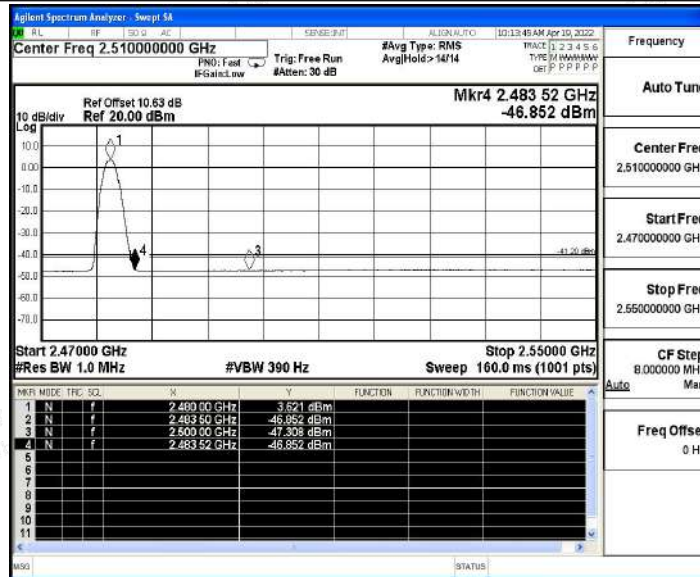


2DH5_Ant1_Low_2402_Peak

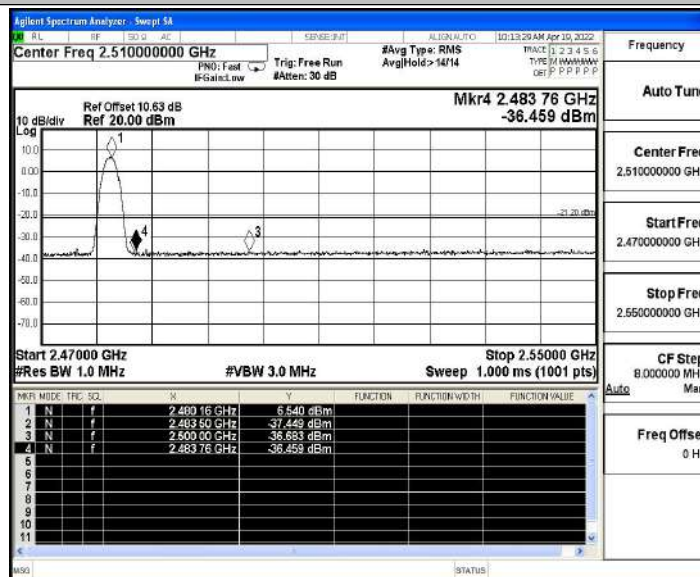


2DH5_Ant1_High_2480_AV



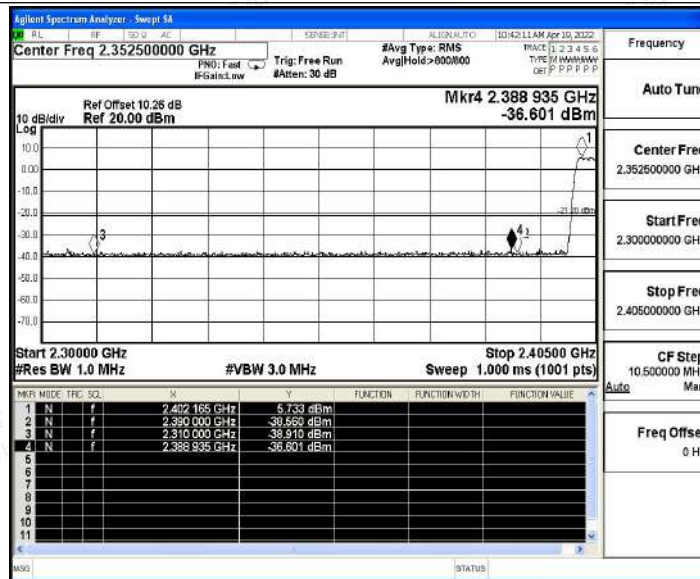


2DH5_Ant1_High_2480_Peak

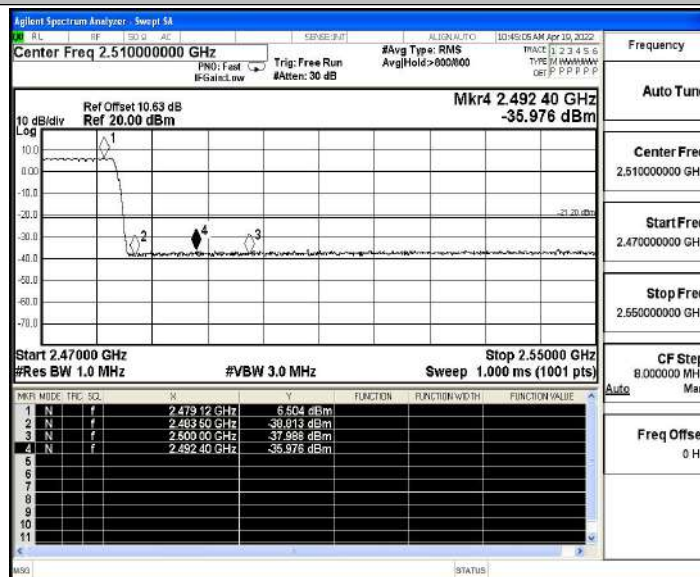


2DH5_Ant1_Low_Hop_2402_Peak



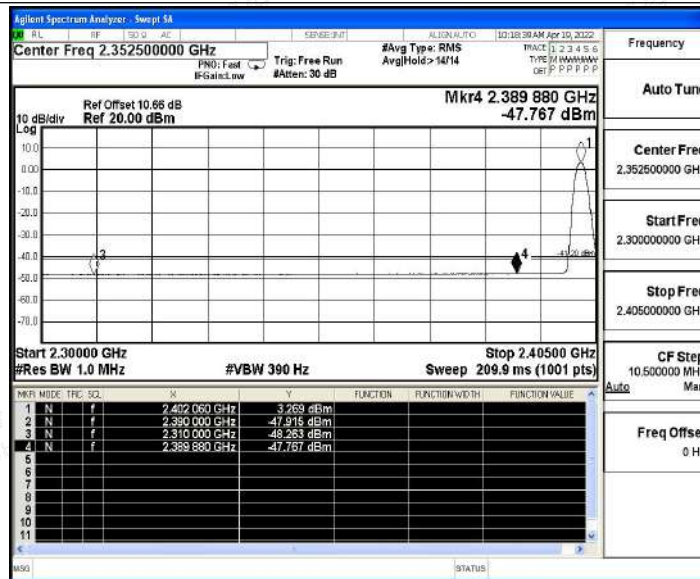


2DH5_Ant1_High_Hop_2480_Peak

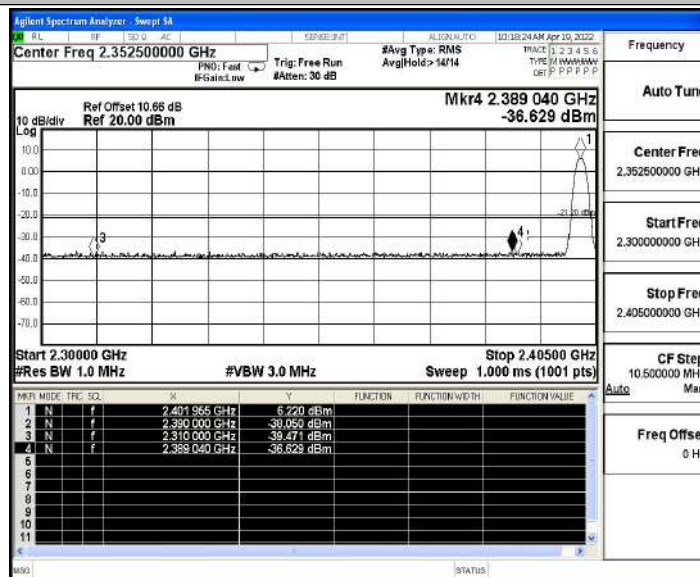


3DH5_Ant1_Low_2402_AV



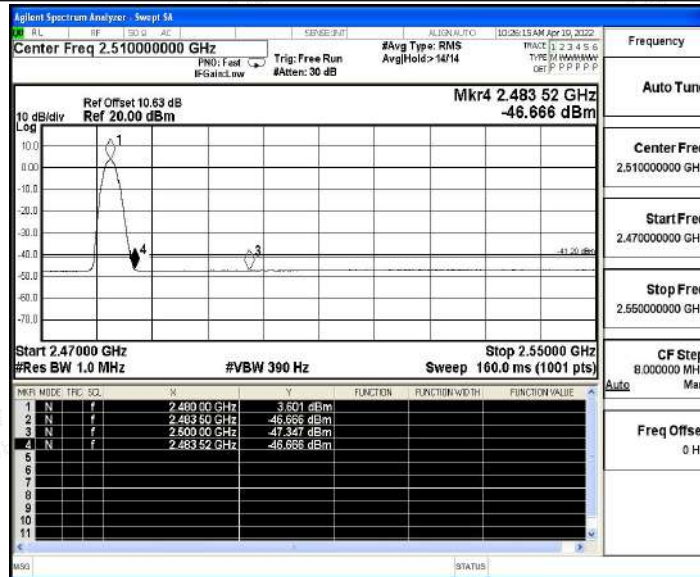


3DH5_Ant1_Low_2402_Peak

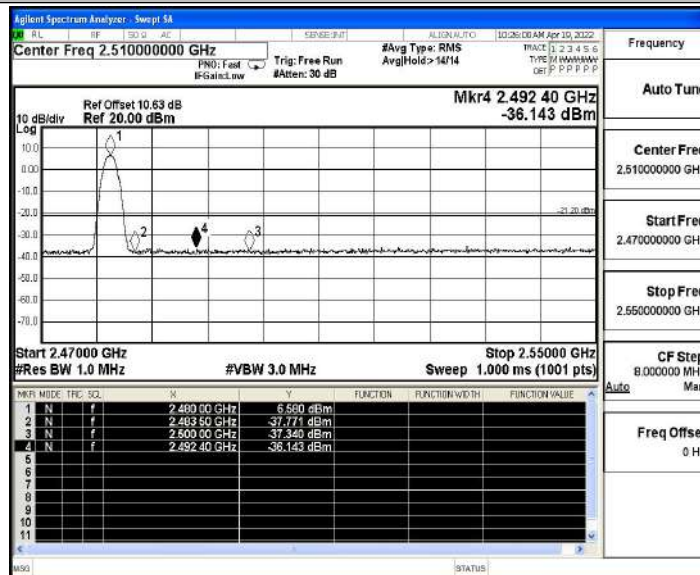


3DH5_Ant1_High_2480_AV



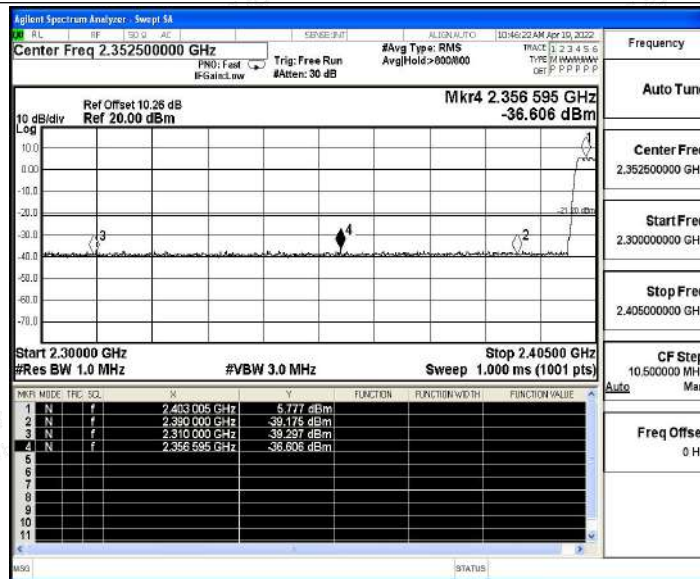


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

