



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95MAX

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	0.813	2401.595	2402.408	---
		2441	0.813	2440.592	2441.405	---
		2480	0.861	2479.553	2480.414	---
2DH5	Ant	2402	1.290	2401.361	2402.651	---
		2441	1.278	2440.367	2441.645	---
		2480	1.269	2479.367	2480.636	---
3DH5	Ant	2402	1.290	2401.352	2402.642	---
		2441	1.275	2440.358	2441.633	---
		2480	1.290	2479.352	2480.642	---

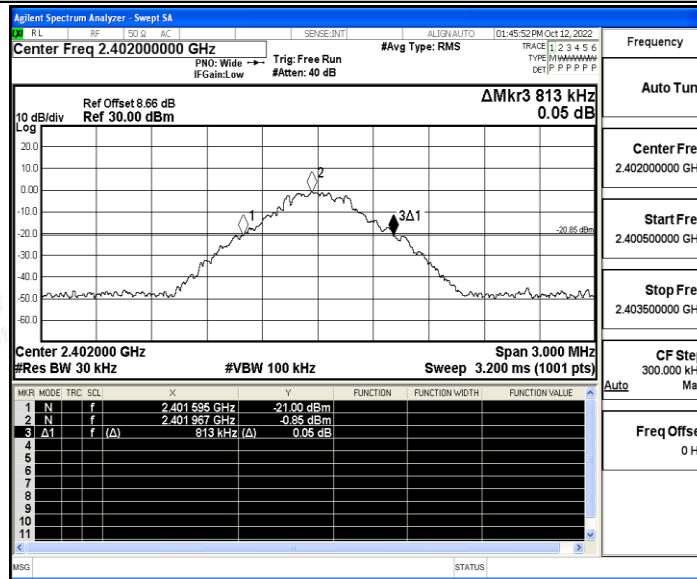


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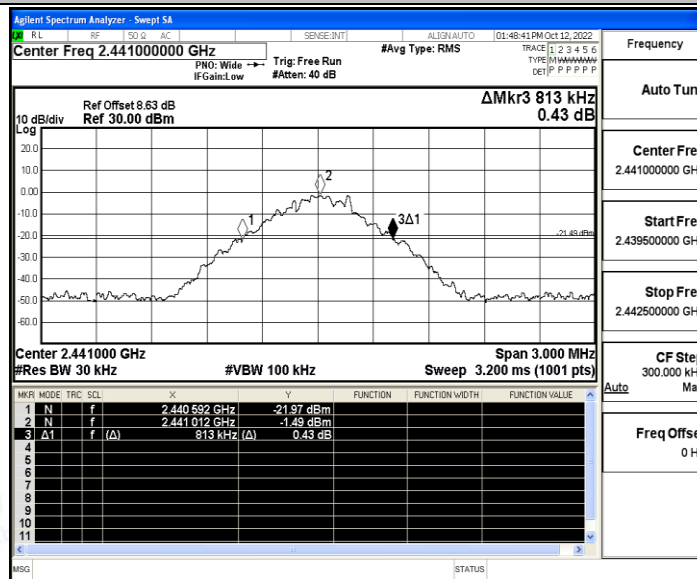


Test Graphs

DH5_Ant_2402

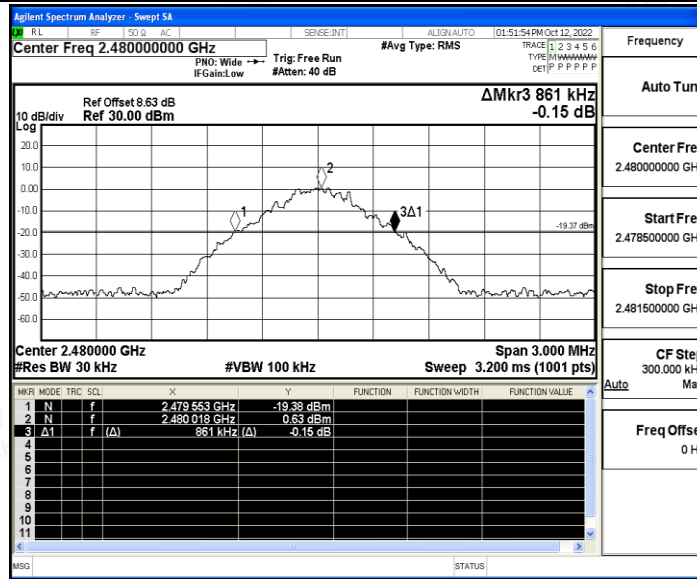


DH5_Ant_2441

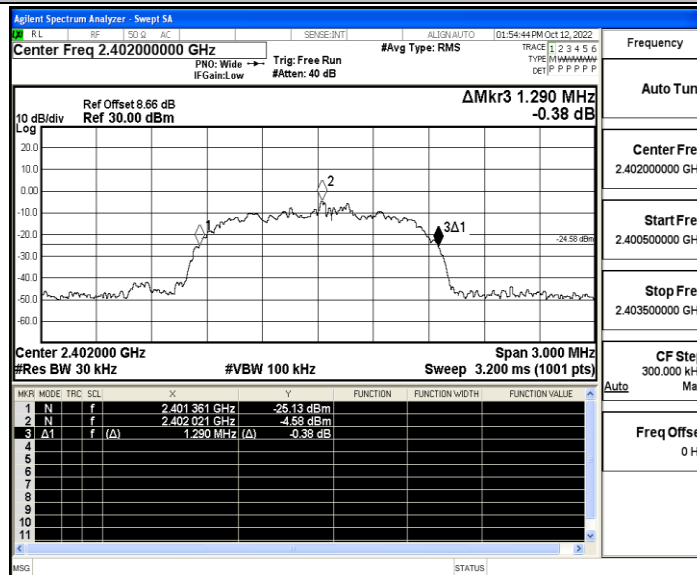


DH5_Ant_2480



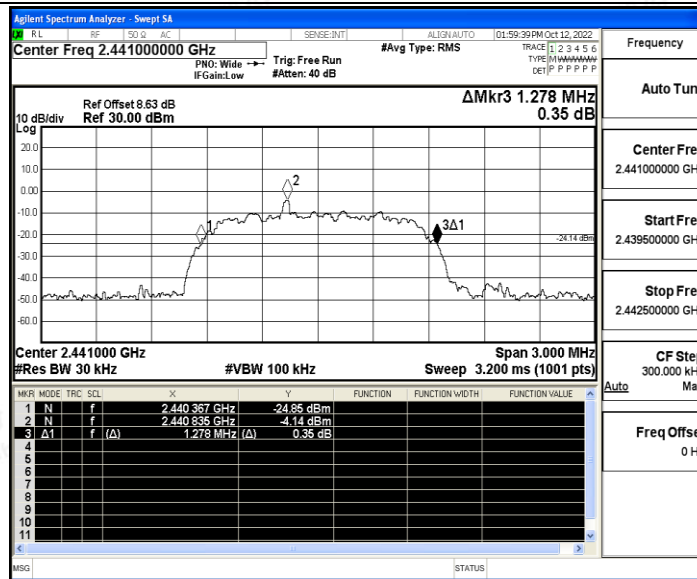


2DH5_Ant_2402

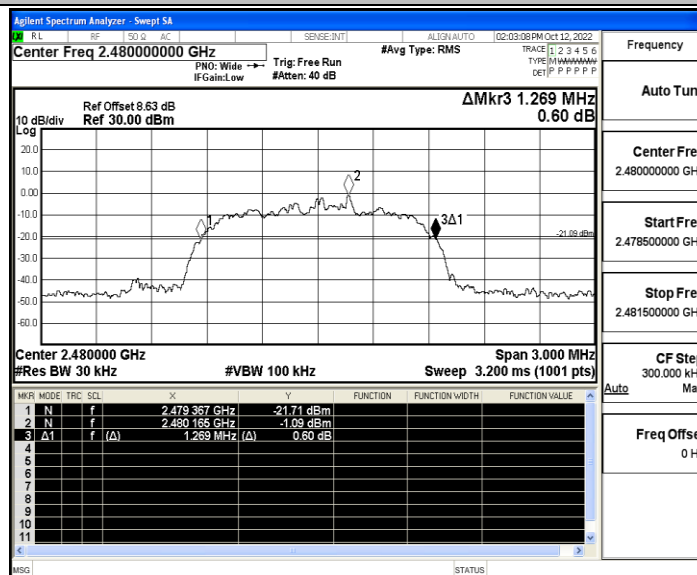


2DH5_Ant_2441



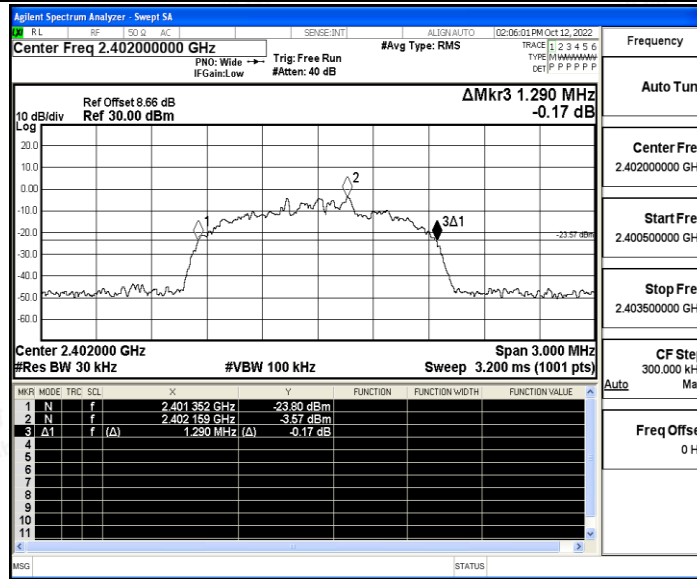


2DH5_Ant_2480

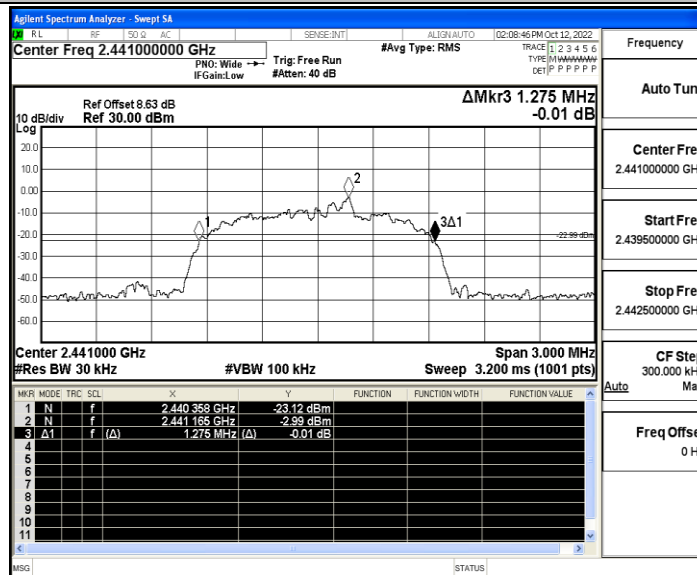


3DH5_Ant_2402



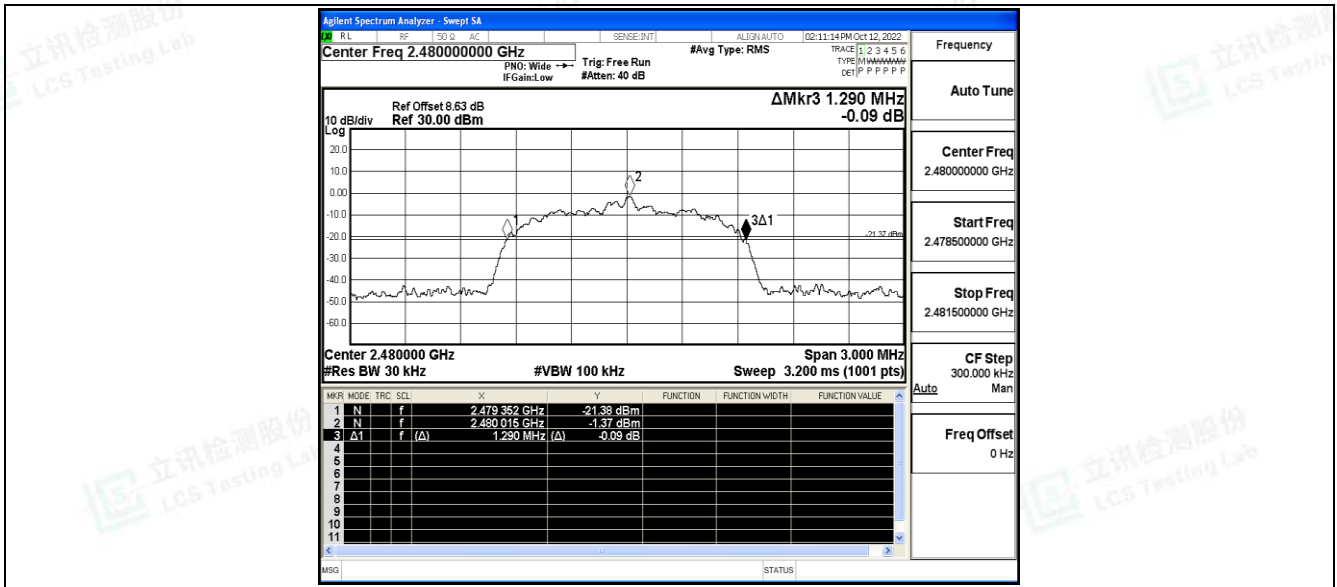


3DH5_Ant_2441



3DH5_Ant_2480







A.2 Occupied Channel Bandwidth

Test Result

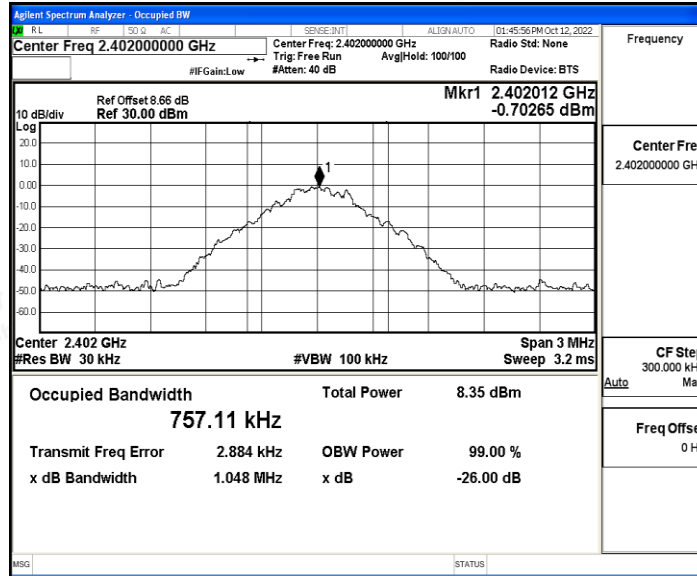
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant	2402	0.75711	2401.6243	2402.3814	---	---
		2441	0.75144	2440.6252	2441.3767	---	---
		2480	0.76174	2479.6190	2480.3807	---	---
2DH5	Ant	2402	1.1721	2401.4123	2402.5844	---	---
		2441	1.1625	2440.4119	2441.5744	---	---
		2480	1.1735	2479.4071	2480.5806	---	---
3DH5	Ant	2402	1.1613	2401.4157	2402.5770	---	---
		2441	1.1666	2440.4136	2441.5802	---	---
		2480	1.1712	2479.4087	2480.5799	---	---



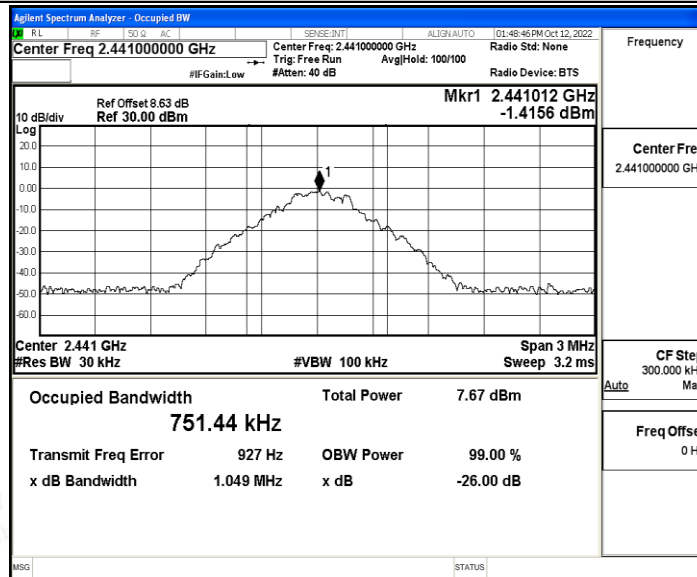


Test Graphs

DH5_Ant_2402

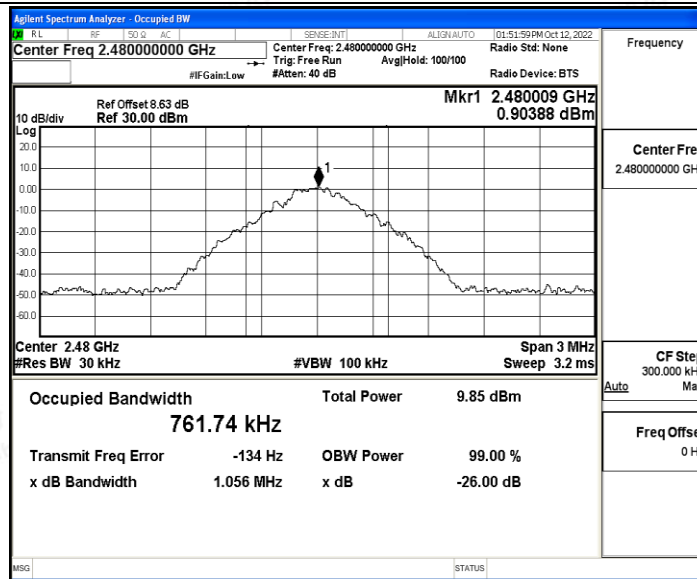


DH5_Ant_2441

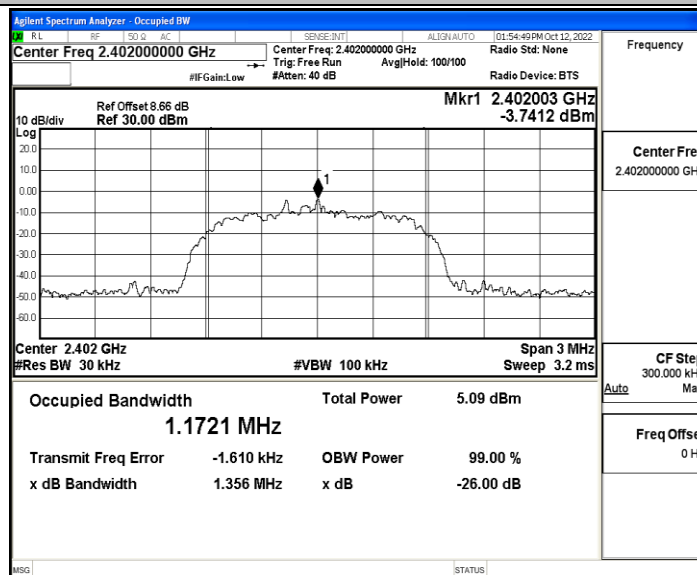


DH5_Ant_2480



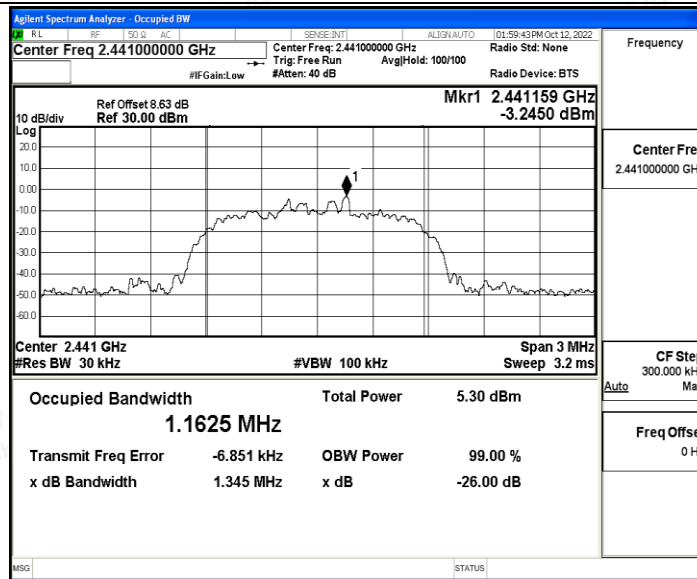


2DH5_Ant_2402

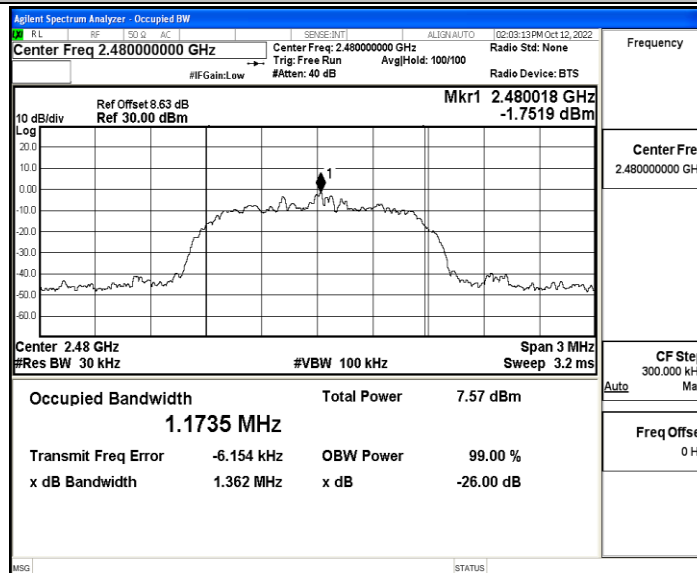


2DH5_Ant_2441



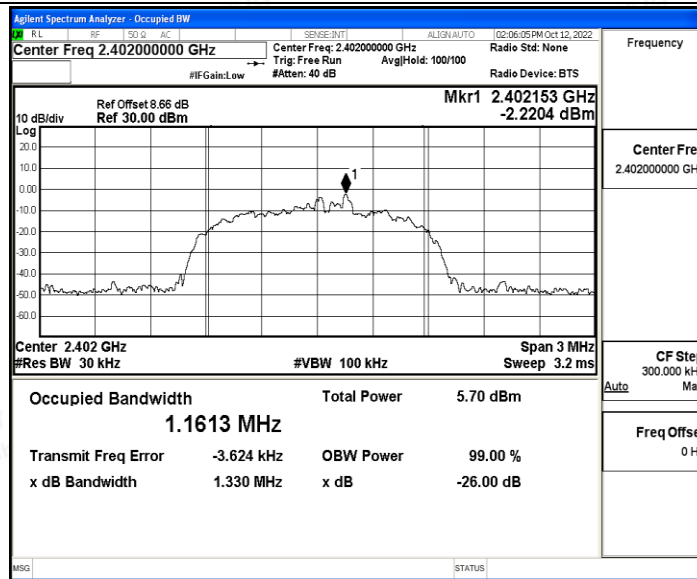


2DH5_Ant_2480

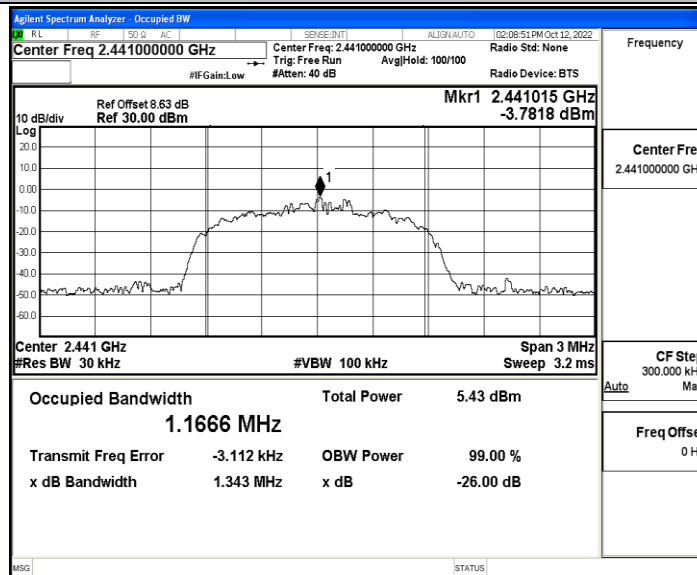


3DH5_Ant_2402



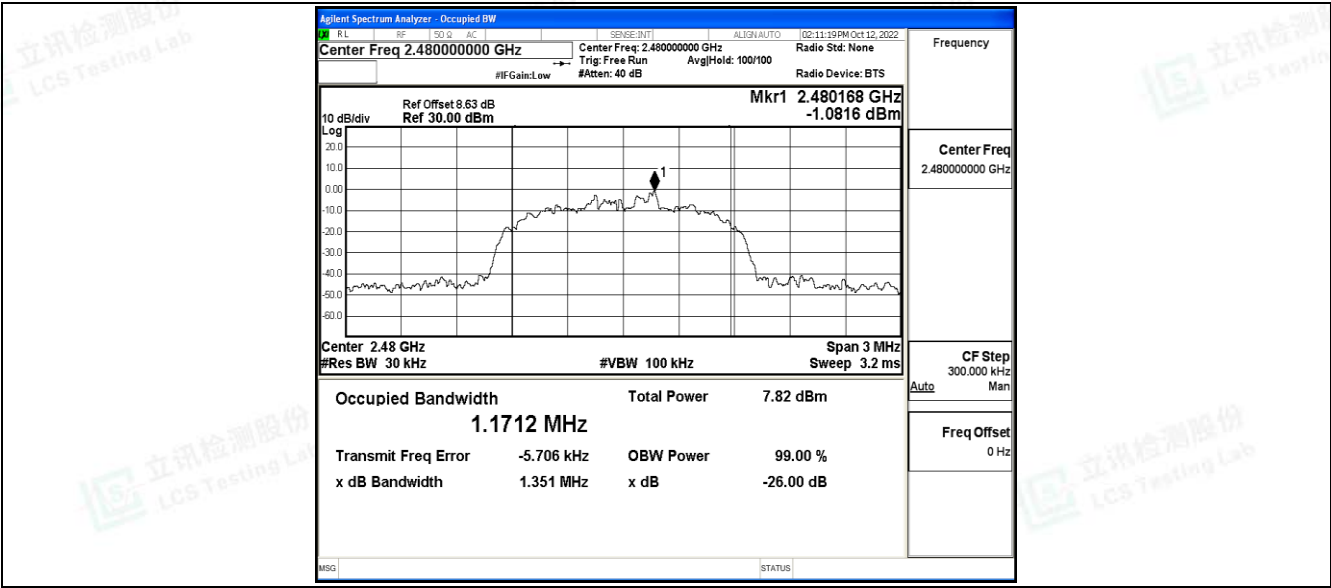


3DH5_Ant_2441



3DH5_Ant_2480







A.3 Maximum conducted output power

Test Result

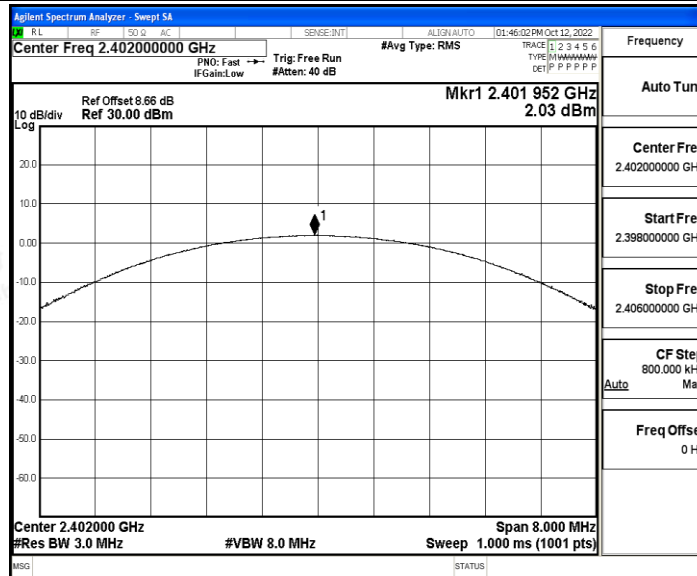
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	2.03	≤21	PASS
		2441	1.30	≤21	PASS
		2480	3.66	≤21	PASS
2DH5	Ant	2402	0.39	≤21	PASS
		2441	0.45	≤21	PASS
		2480	2.89	≤21	PASS
3DH5	Ant	2402	0.47	≤21	PASS
		2441	0.32	≤21	PASS
		2480	2.88	≤21	PASS



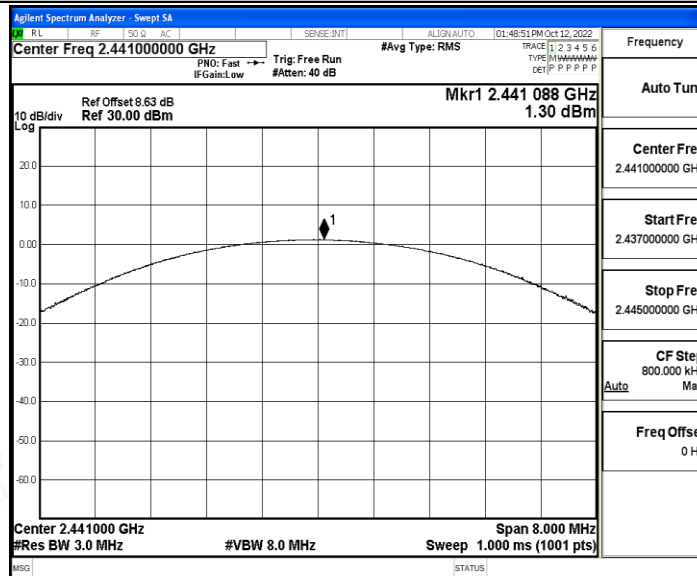


Test Graphs

DH5_Ant_2402

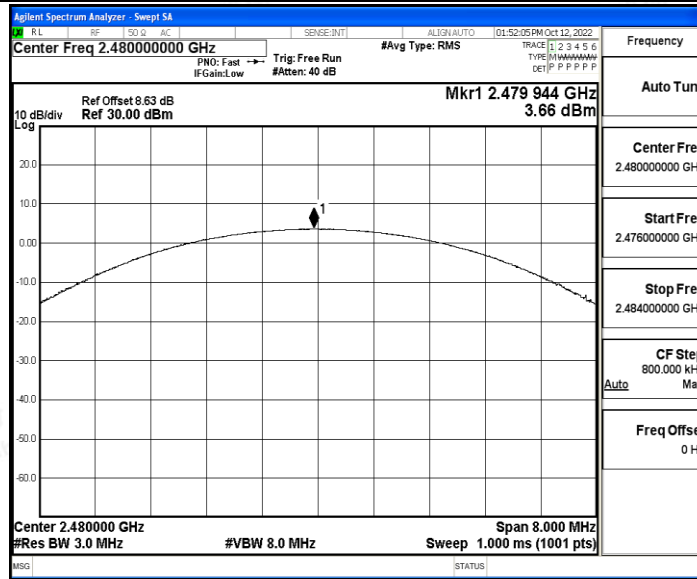


DH5_Ant_2441

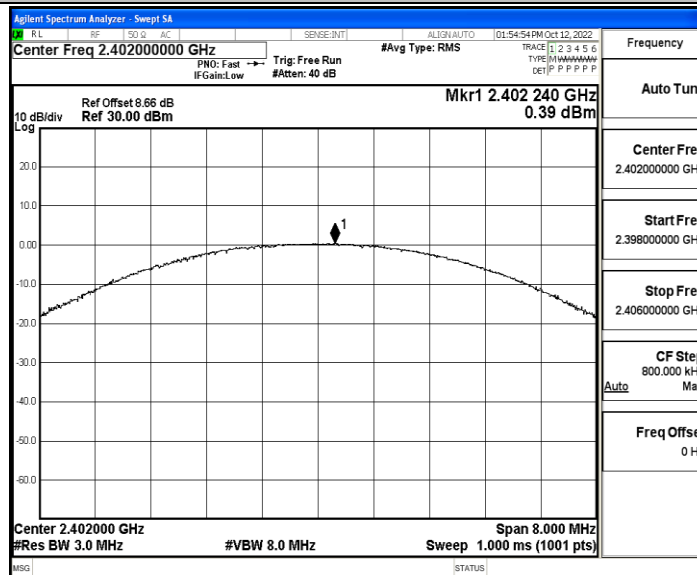


DH5_Ant_2480



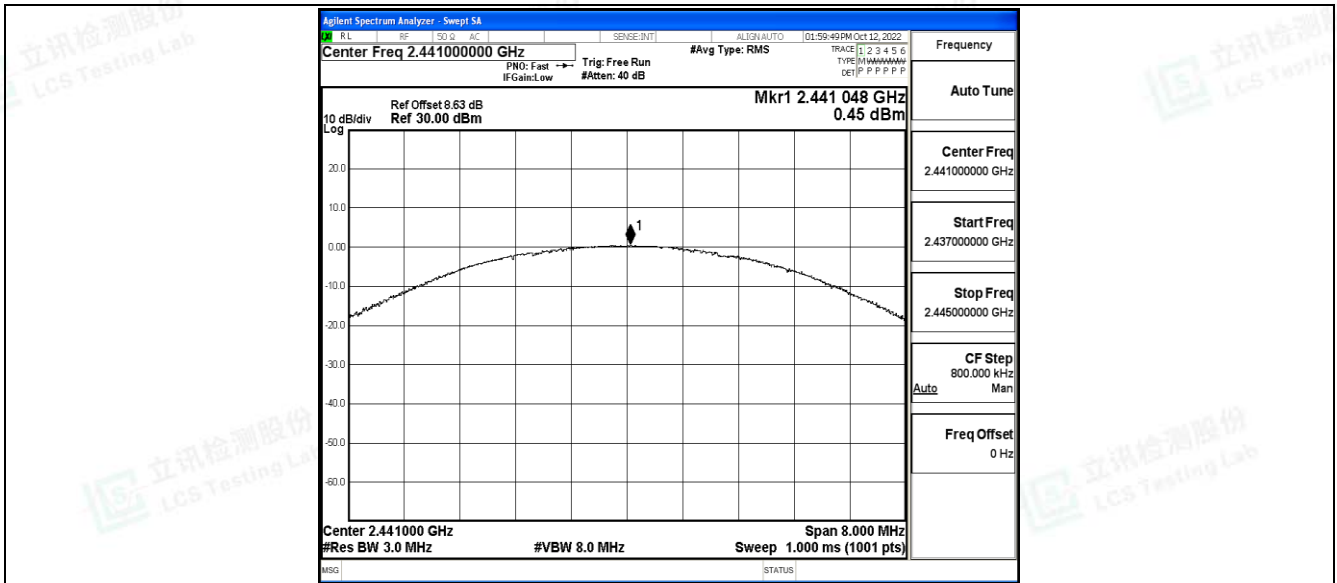


2DH5_Ant_2402

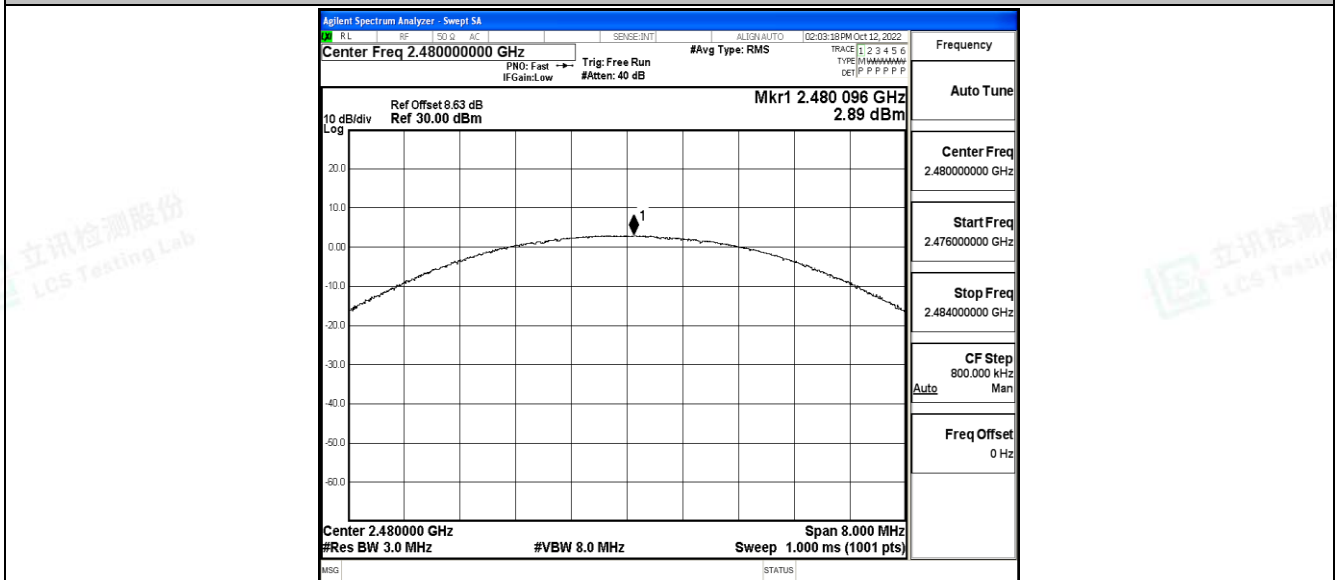


2DH5_Ant_2441



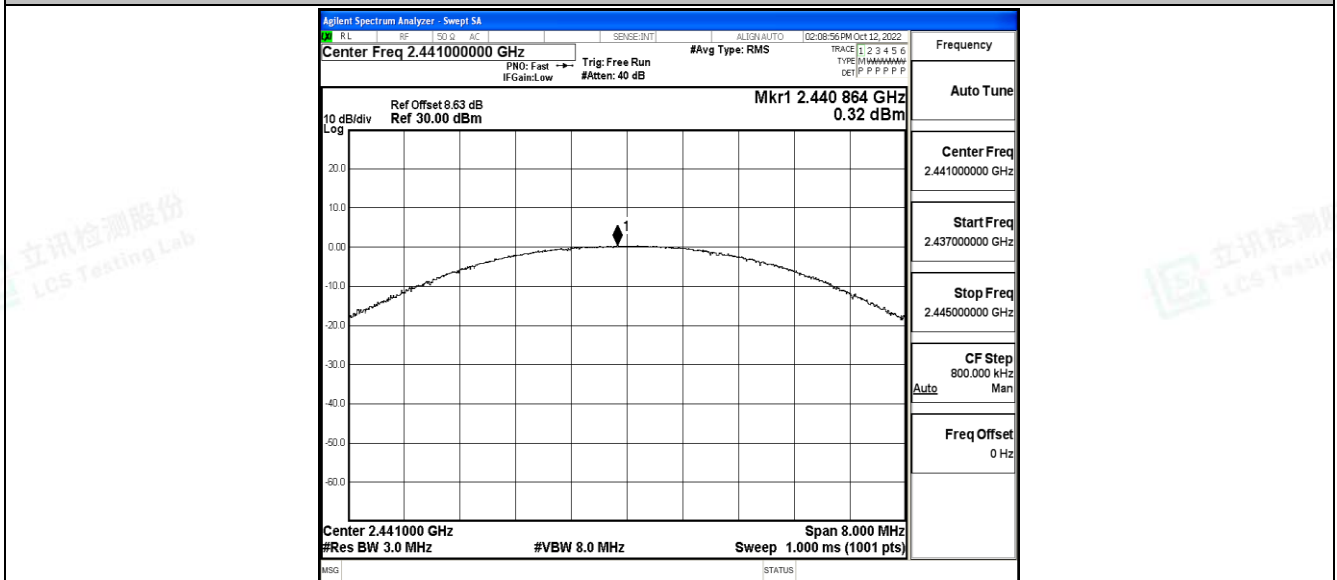
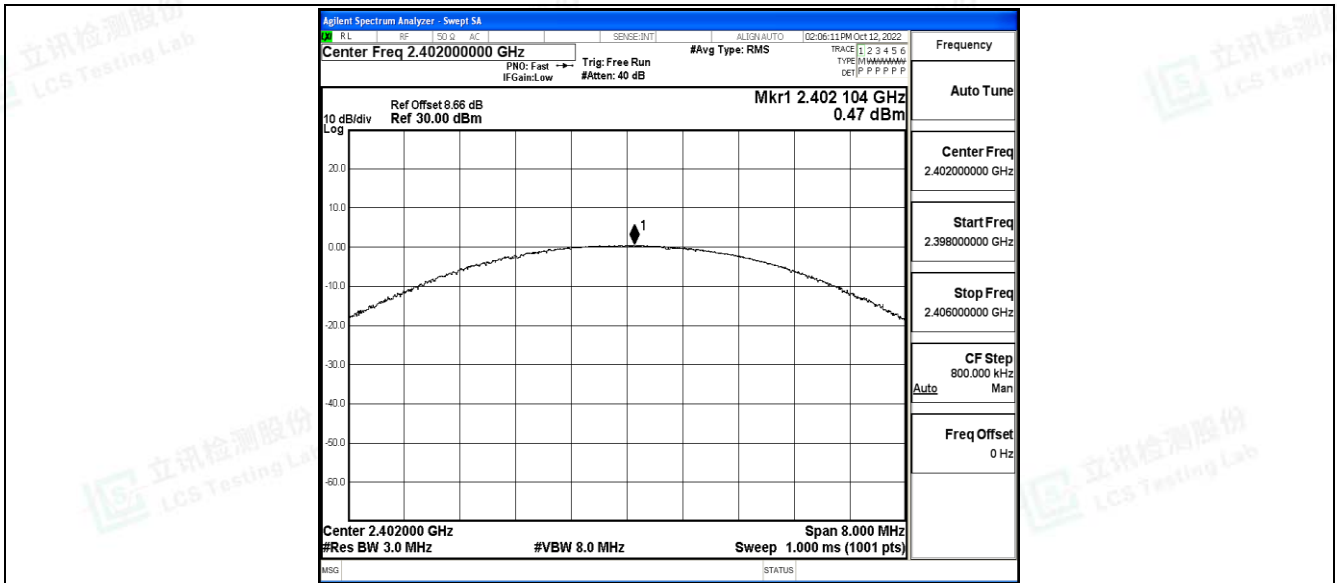


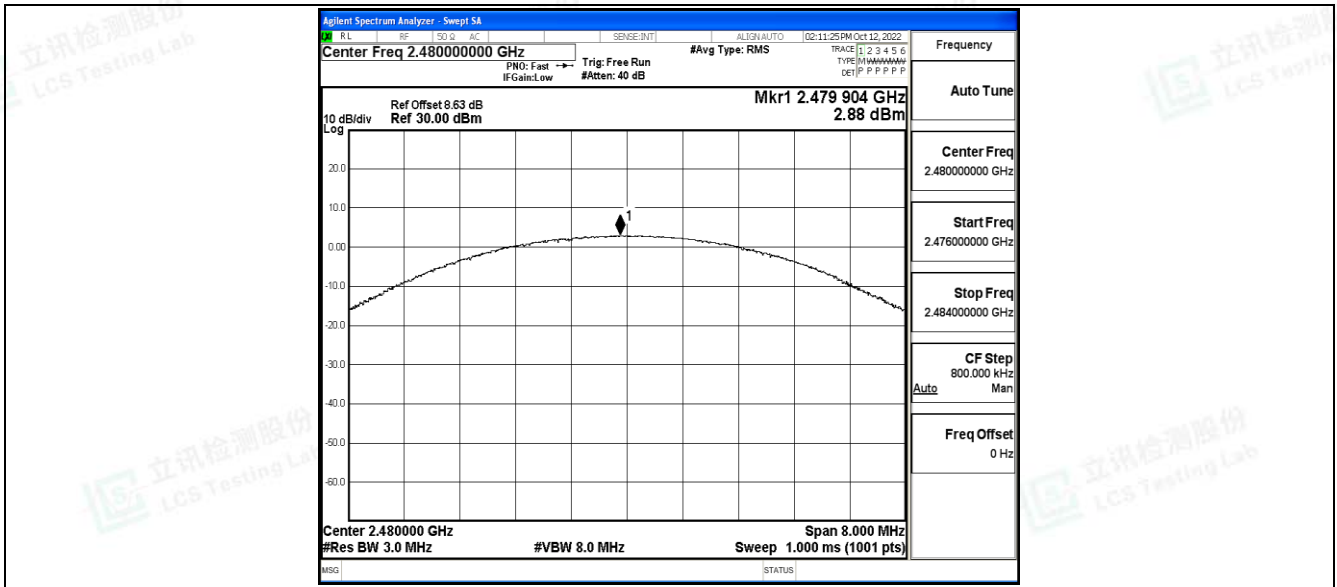
2DH5_Ant_2480



3DH5_Ant_2402









A.4 Carrier frequency separation

Test Result

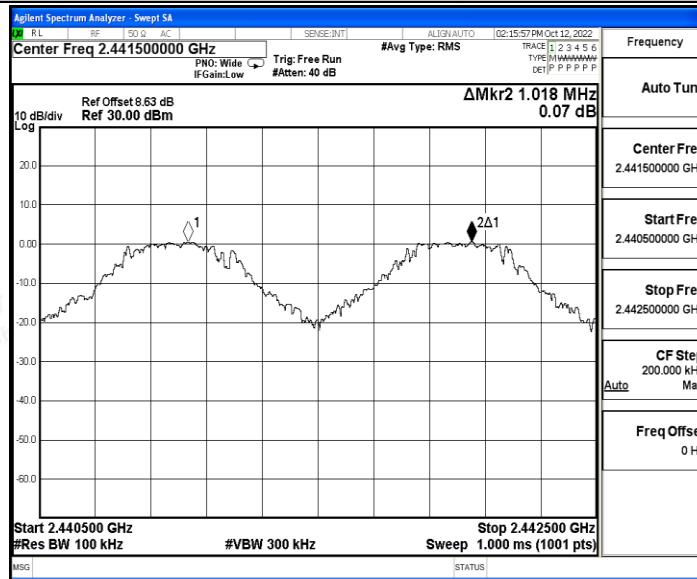
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.018	≥ 0.574	PASS
2DH5	Ant	Hop	1.046	≥ 0.860	PASS
3DH5	Ant	Hop	1.054	≥ 0.860	PASS



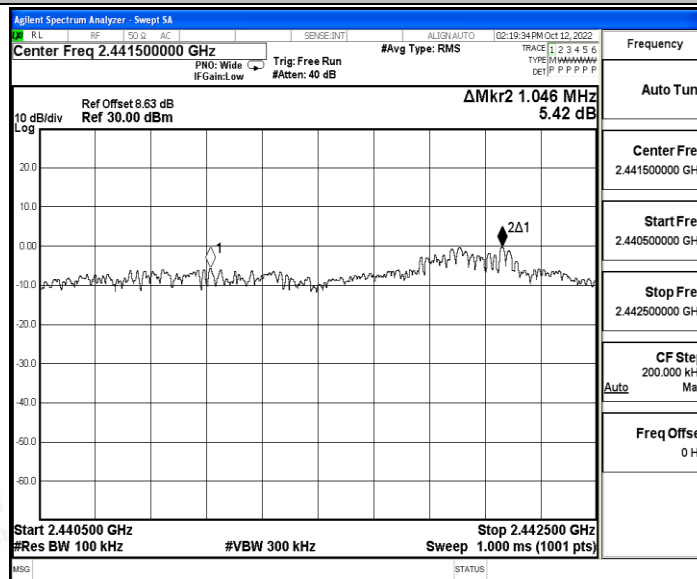


Test Graphs

DH5_Ant_Hop

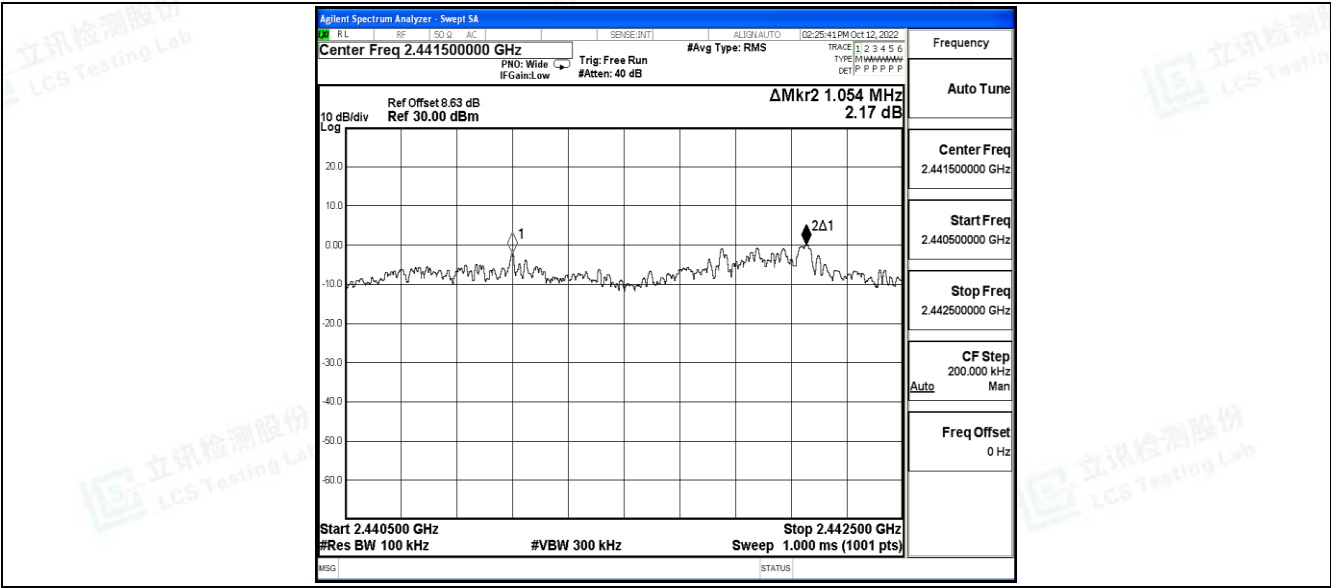


2DH5_Ant_Hop



3DH5_Ant_Hop





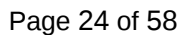


A.5 Time of occupancy

Test Result

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

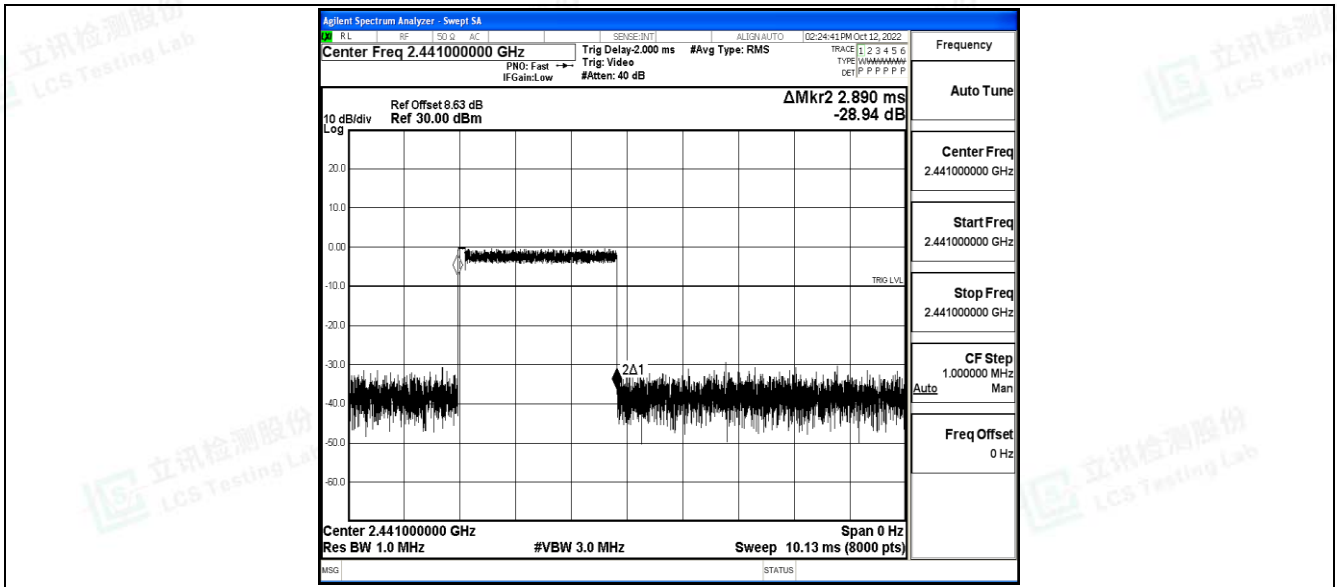




Test Graphs



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A.6 Number of hopping channels

Test Result

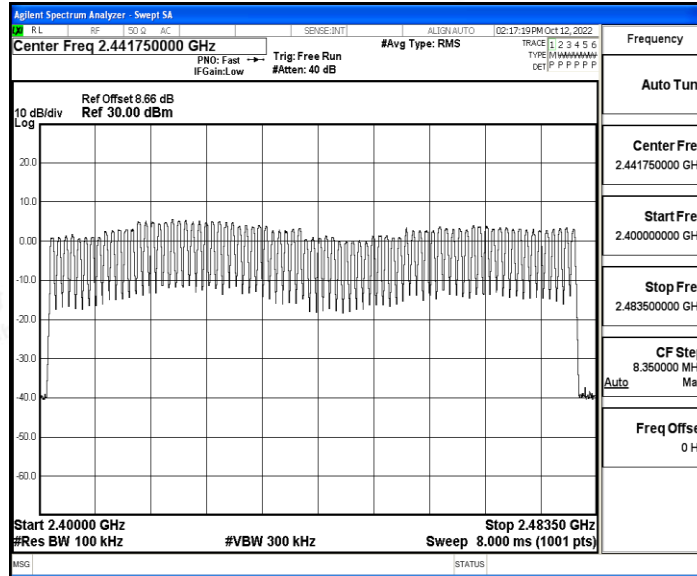
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥15	PASS
2DH5	Ant	Hop	79	≥15	PASS
3DH5	Ant	Hop	79	≥15	PASS



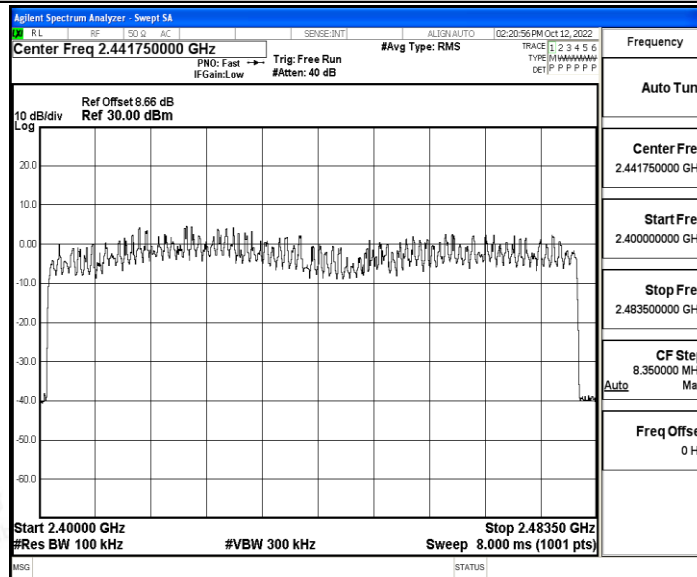


Test Graphs

DH5_Ant_Hop

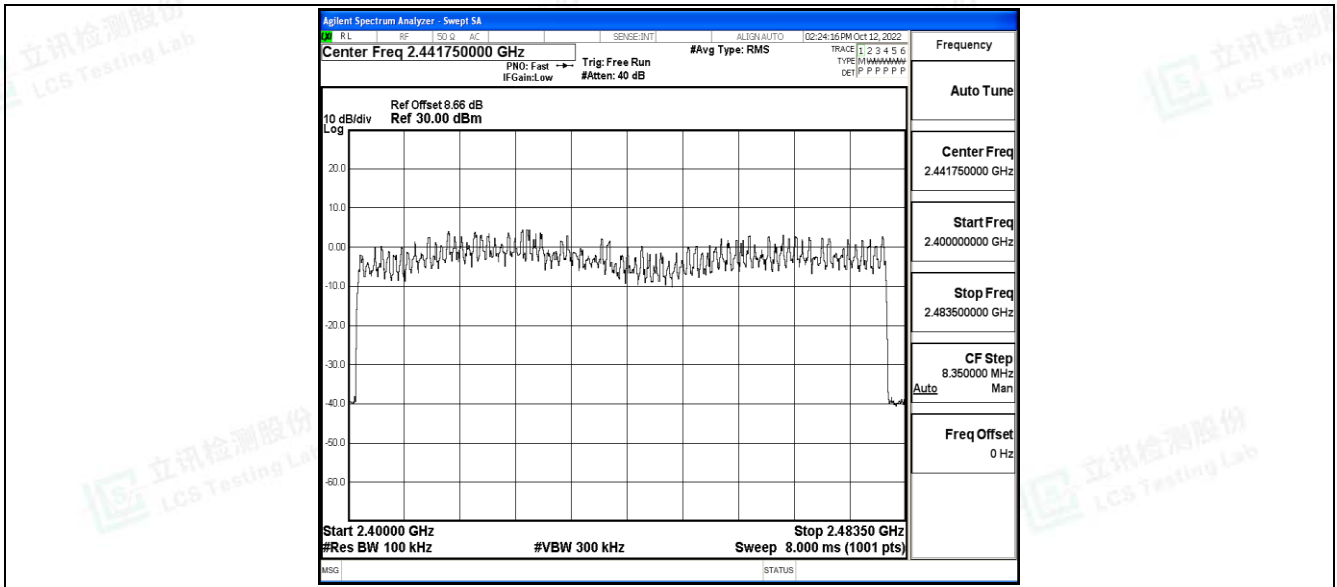


2DH5_Ant_Hop



3DH5_Ant_Hop







A.7 Band edge measurements

Test Result

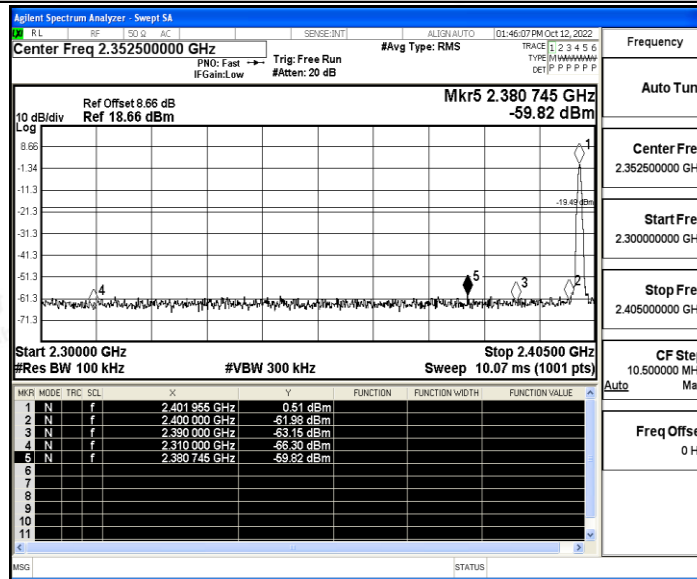
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	0.51	-59.82	≤ -19.49	PASS
		High	2480	2.95	-58.45	≤ -17.05	PASS
		Low	Hop_2402	1.11	-58.92	≤ -18.9	PASS
		High	Hop_2480	3.02	-57.73	≤ -16.98	PASS
2DH5	Ant	Low	2402	-5.19	-60.11	≤ -25.19	PASS
		High	2480	-2.41	-58.24	≤ -22.41	PASS
		Low	Hop_2402	-5.27	-58.41	≤ -25.27	PASS
		High	Hop_2480	2.11	-56.49	≤ -17.9	PASS
3DH5	Ant	Low	2402	-2.09	-60.38	≤ -22.09	PASS
		High	2480	-2.18	-59.02	≤ -22.18	PASS
		Low	Hop_2402	-5.73	-58.61	≤ -25.73	PASS
		High	Hop_2480	1.84	-57.43	≤ -18.16	PASS



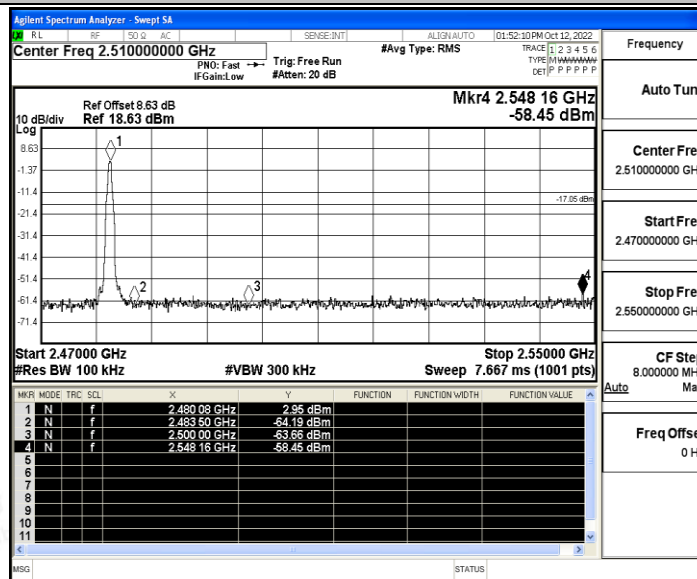


Test Graphs

DH5_Ant_Low_2402

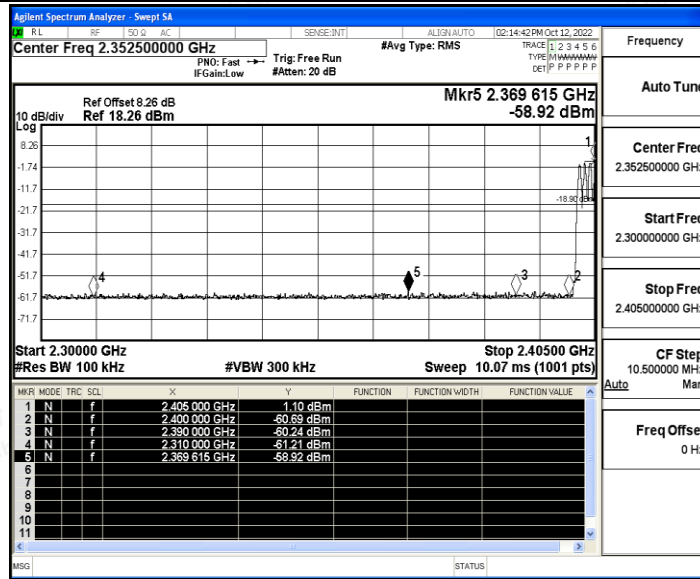


DH5_Ant_High_2480

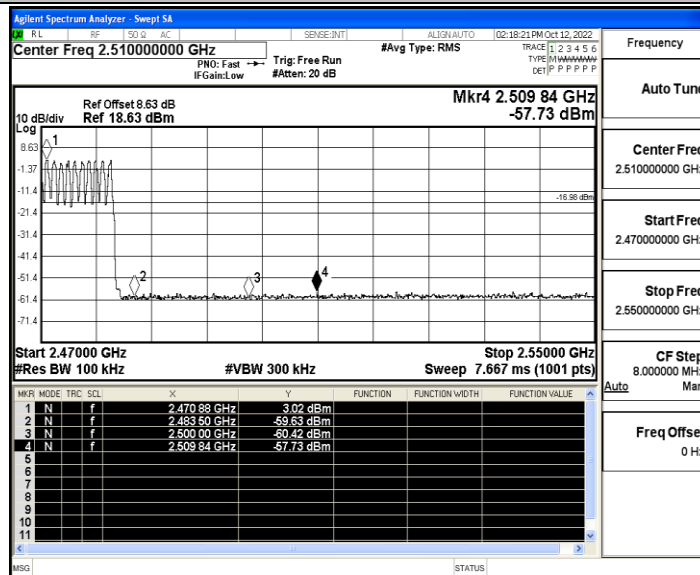


DH5_Ant_Low_Hop_2402



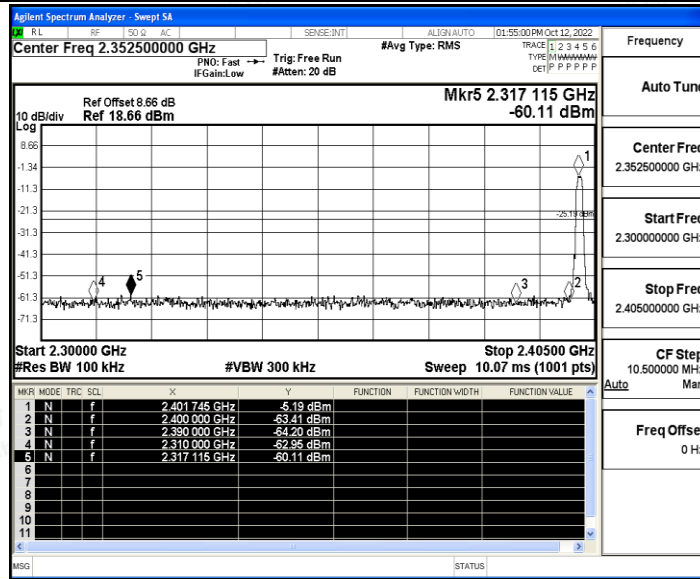


DH5_Ant_High_Hop_2480

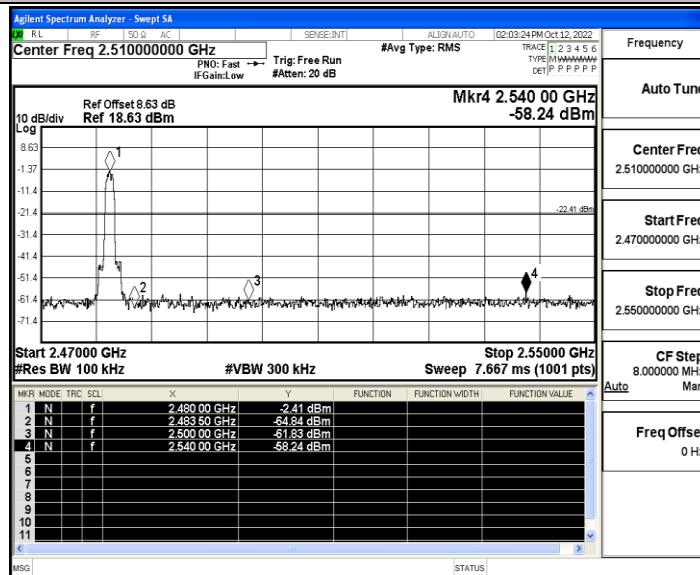


2DH5_Ant_Low_2402



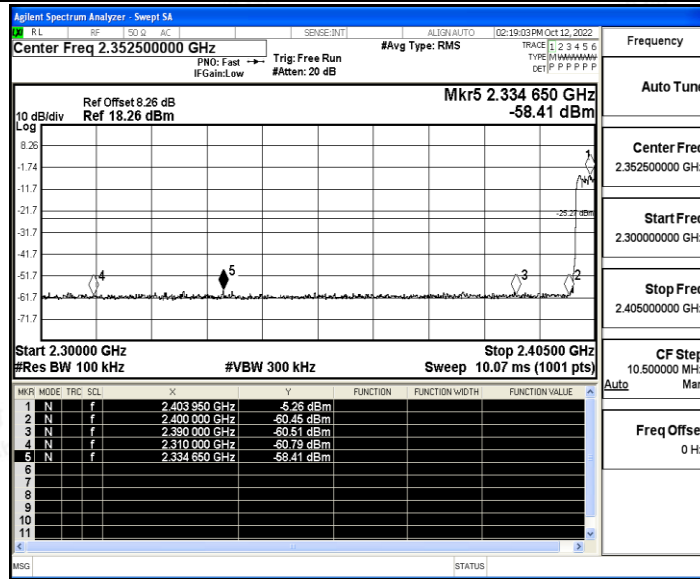


2DH5_Ant_High_2480

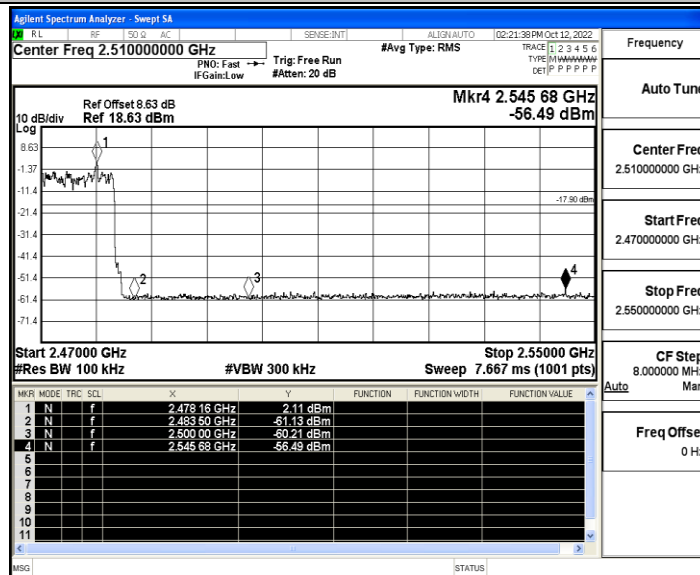


2DH5_Ant_Low_Hop_2402



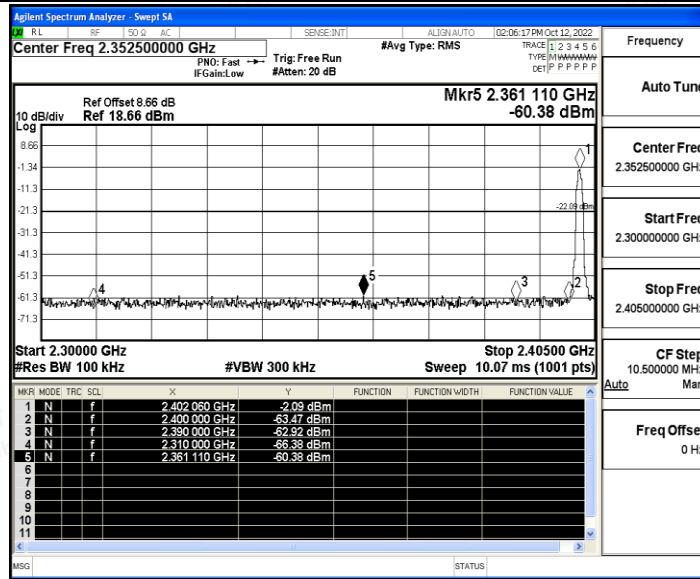


2DH5_Ant_High_Hop_2480

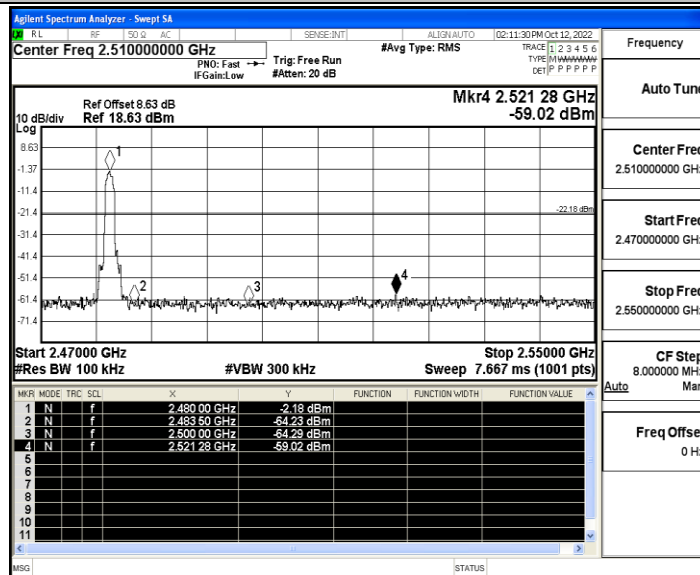


3DH5_Ant_Low_2402



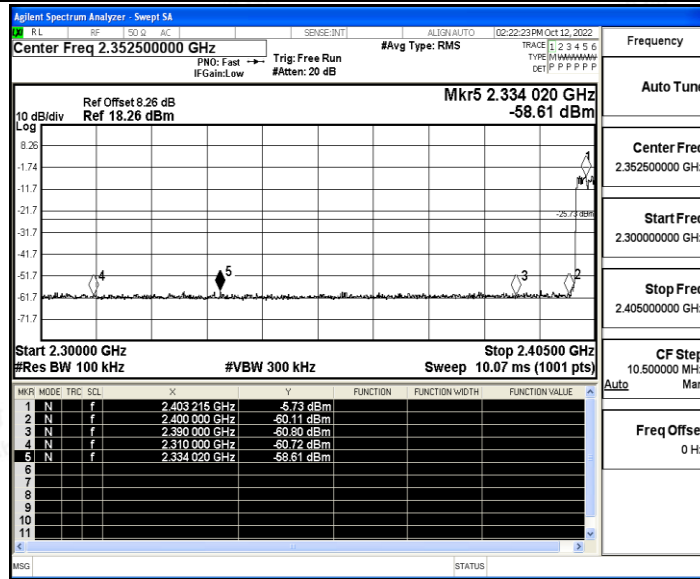


3DH5_Ant_High_2480

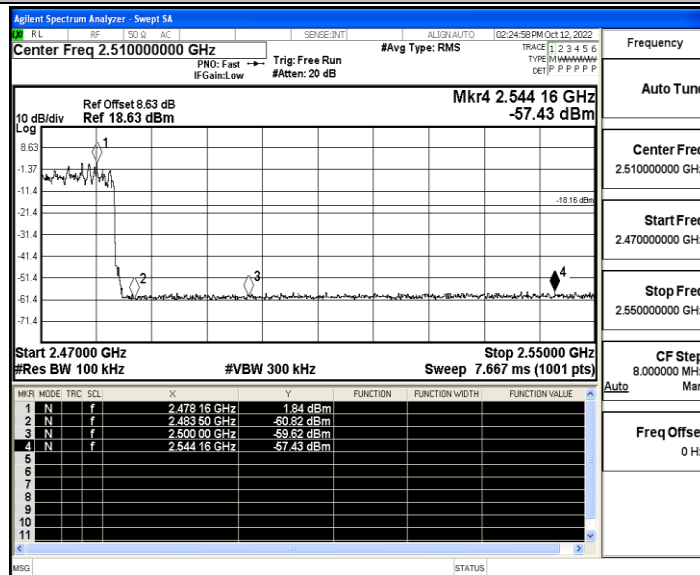


3DH5_Ant_Low_Hop_2402





3DH5_Ant_High_Hop_2480





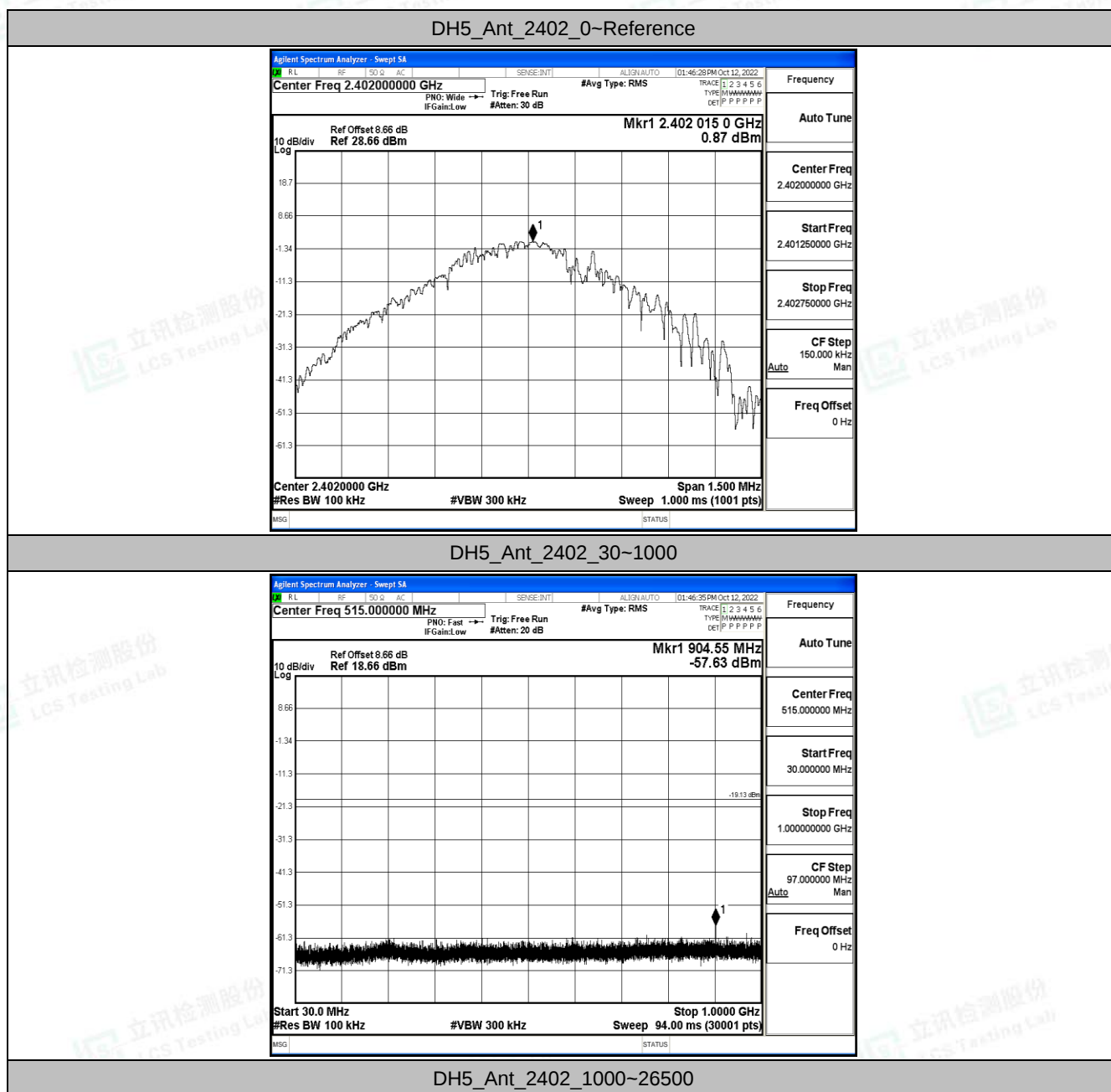
A.8 Conducted Spurious Emission

Test Result

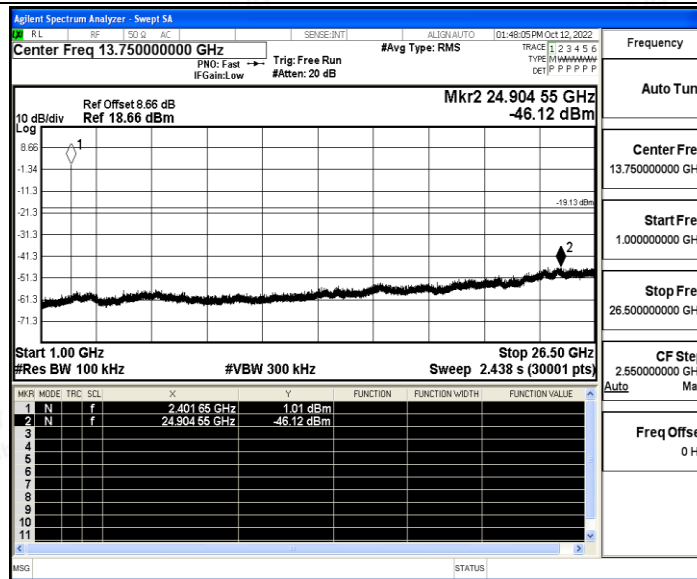
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-57.63	≤-19.13	PASS
			1000~26500	0.87	-46.13	≤-19.13	PASS
		2441	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-60.86	≤-20.12	PASS
			1000~26500	-0.12	-46.07	≤-20.12	PASS
		2480	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-60.73	≤-17.36	PASS
			1000~26500	2.64	-45.26	≤-17.36	PASS
2DH5	Ant	2402	Reference	-4.62	-4.62	---	PASS
			30~1000	-4.62	-60.65	≤-24.62	PASS
			1000~26500	-4.62	-45.81	≤-24.62	PASS
		2441	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-60.53	≤-24.76	PASS
			1000~26500	-4.76	-46.21	≤-24.76	PASS
		2480	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-60.34	≤-22.28	PASS
			1000~26500	-2.28	-45.7	≤-22.28	PASS
3DH5	Ant	2402	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-60.72	≤-24.68	PASS
			1000~26500	-4.68	-45.01	≤-24.68	PASS
		2441	Reference	-5.07	-5.07	---	PASS
			30~1000	-5.07	-60.62	≤-25.07	PASS
			1000~26500	-5.07	-46.17	≤-25.07	PASS
		2480	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-60.35	≤-22.38	PASS
			1000~26500	-2.38	-45.36	≤-22.38	PASS



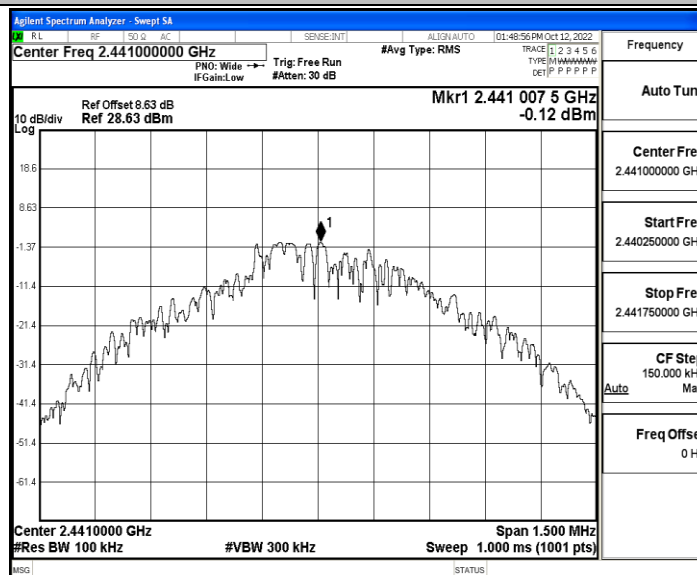
Test Graphs



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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

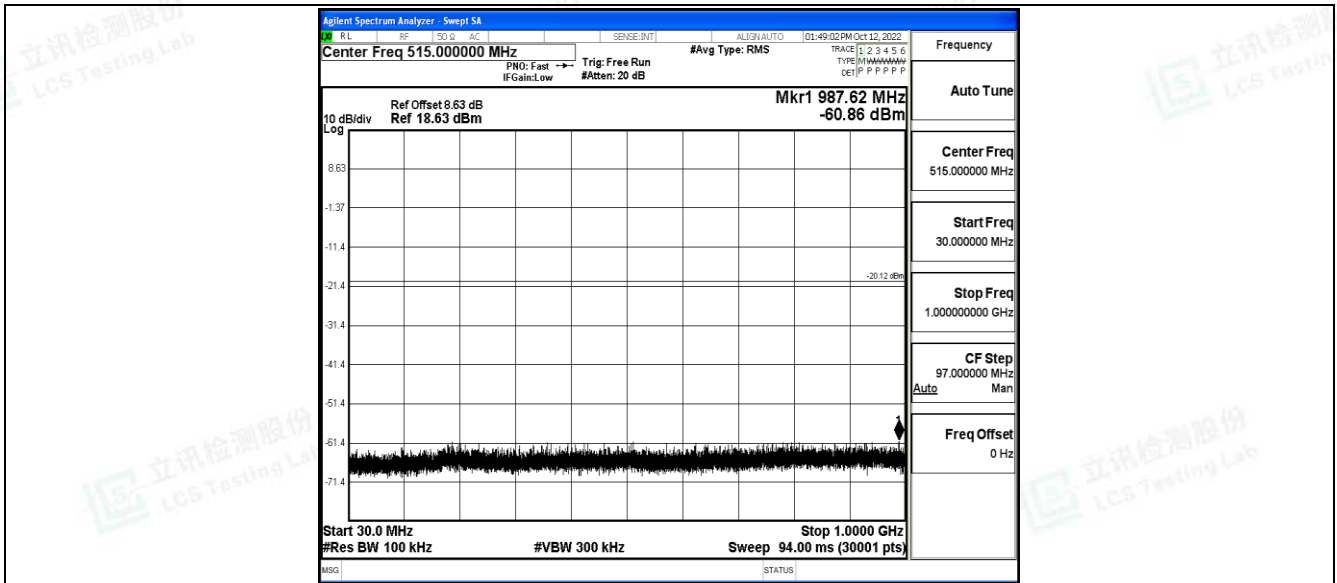


DH5_Ant_2441_0~Reference

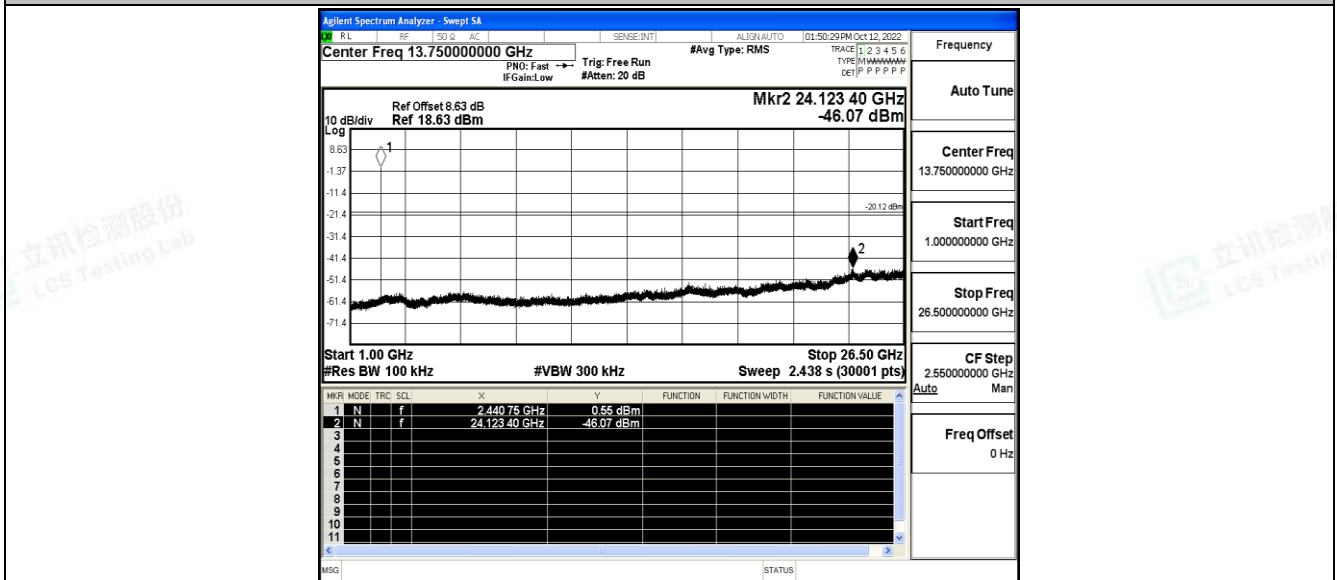


DH5_Ant_2441_30~1000



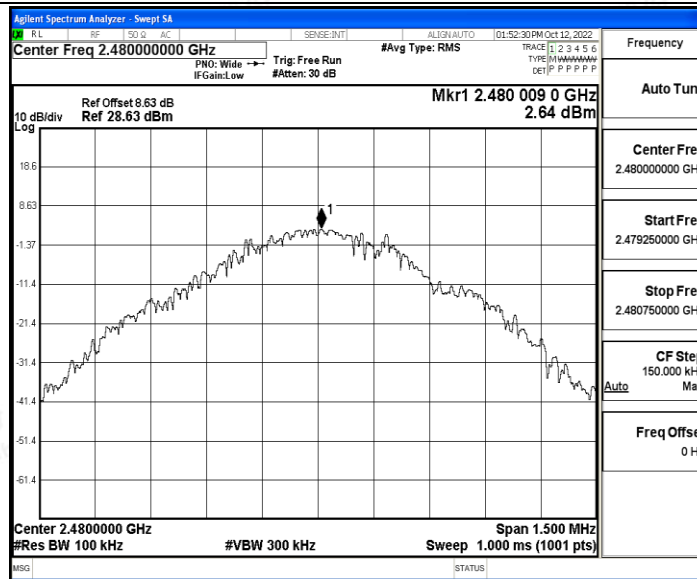


DH5_Ant_2441_1000~26500

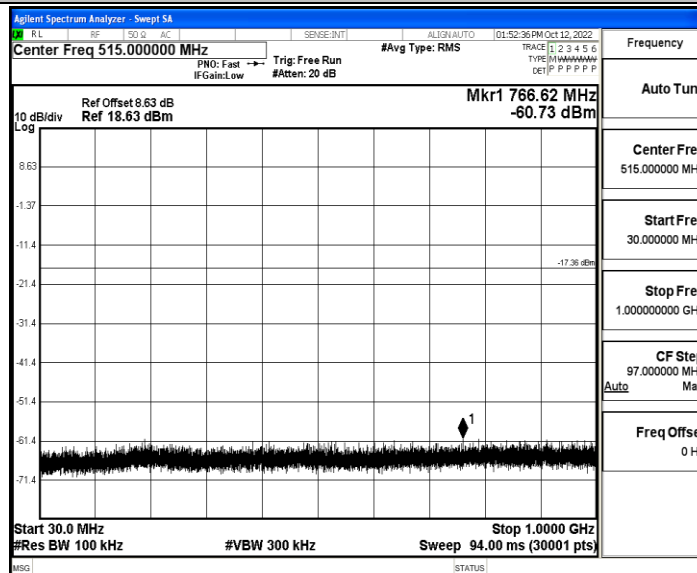


DH5_Ant_2480_0~Reference



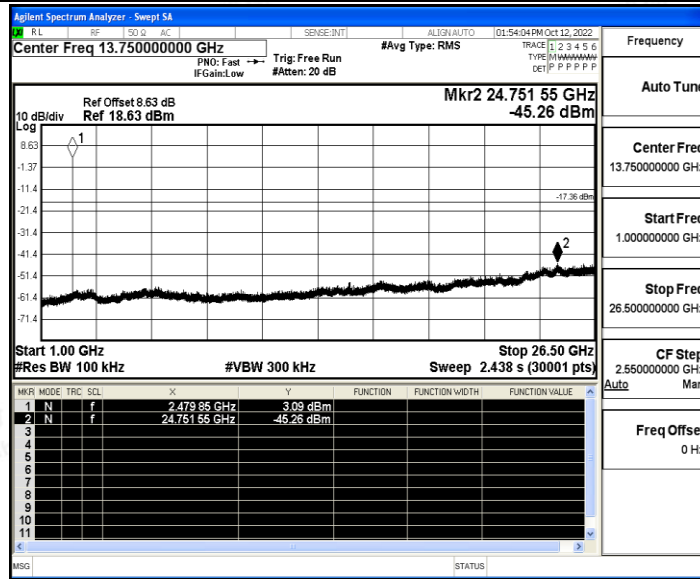


DH5_Ant_2480_30~1000

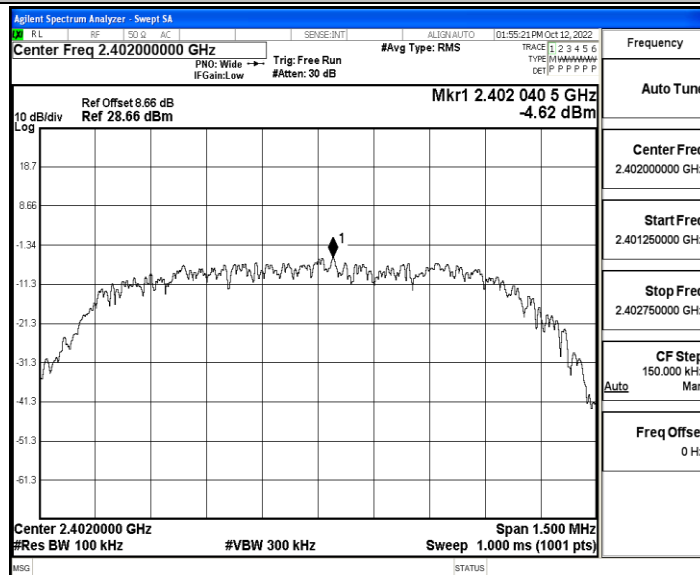


DH5_Ant_2480_1000~26500



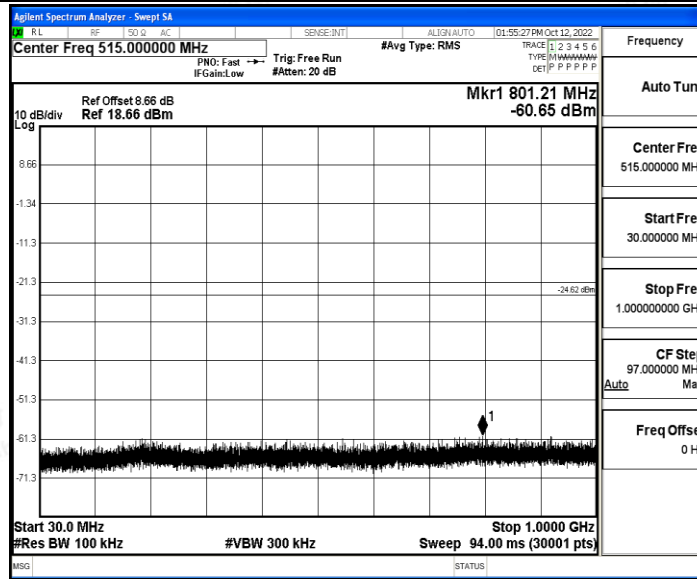


2DH5_Ant_2402_0-Reference

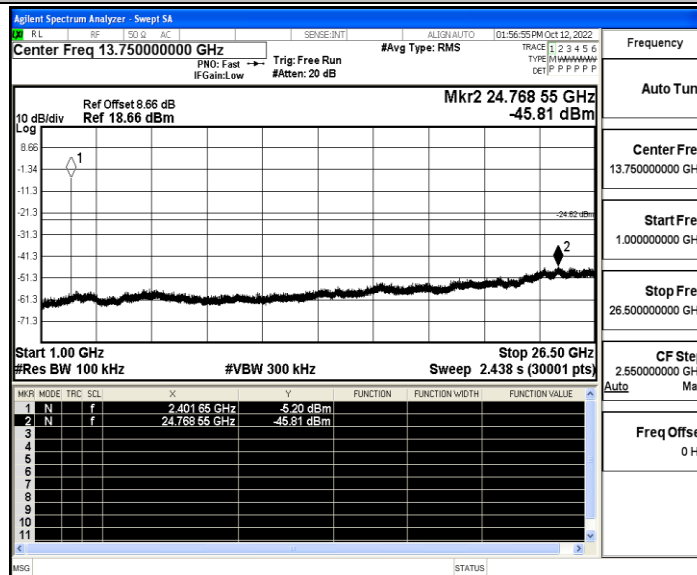


2DH5_Ant_2402_30~1000



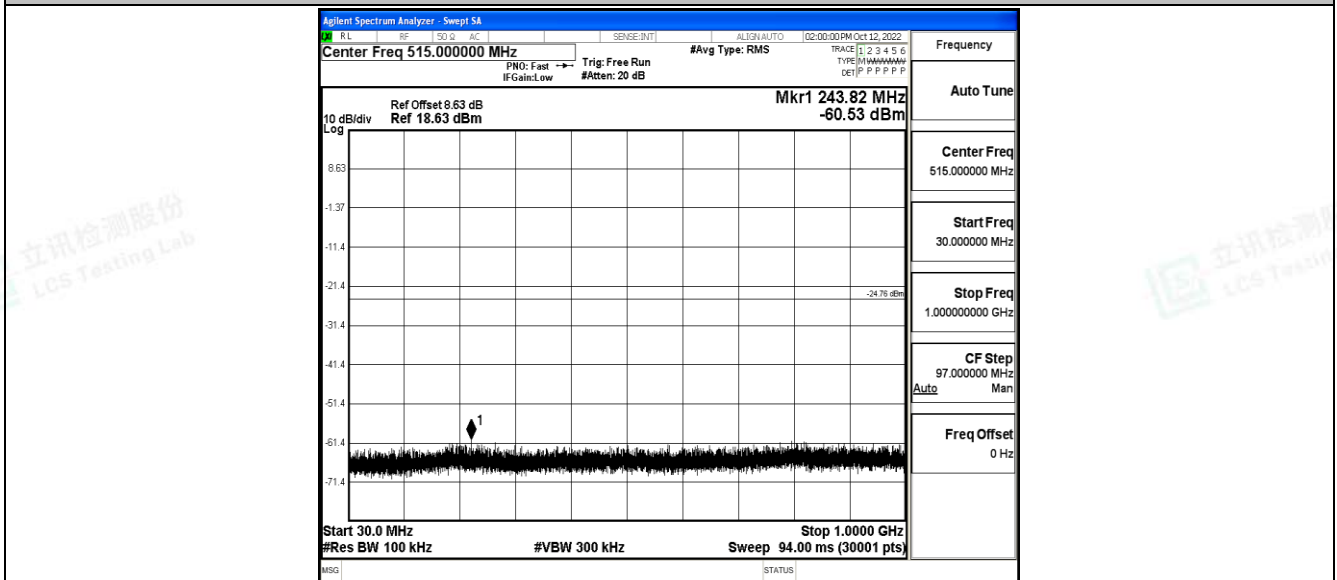
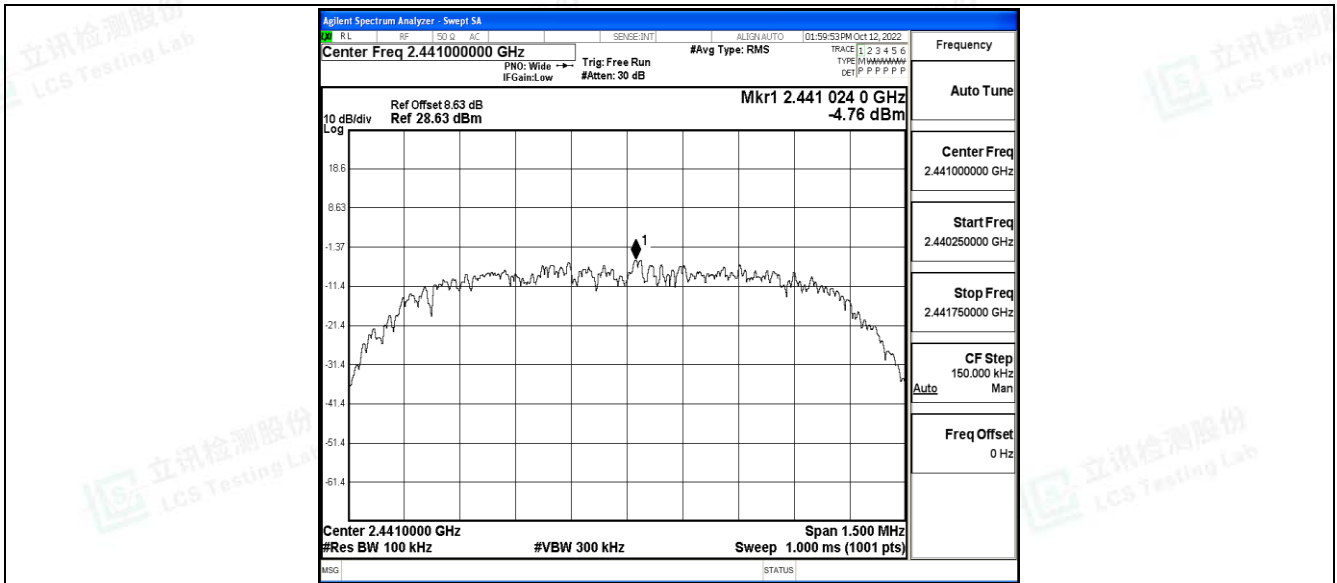


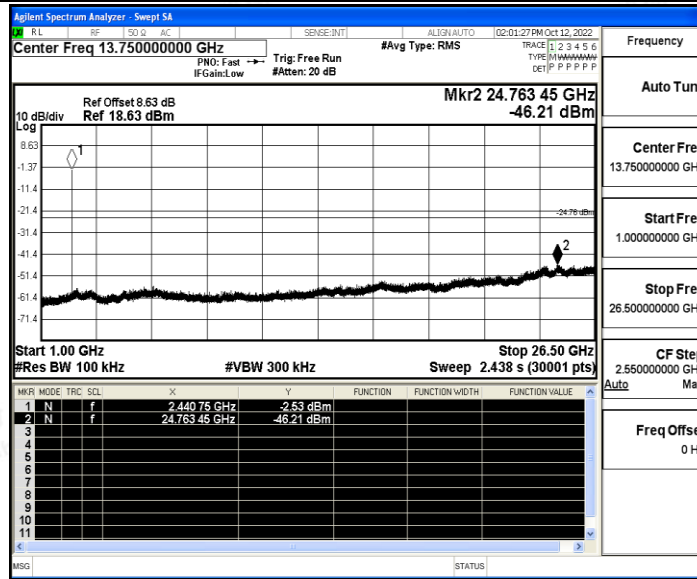
2DH5_Ant_2402_1000~26500



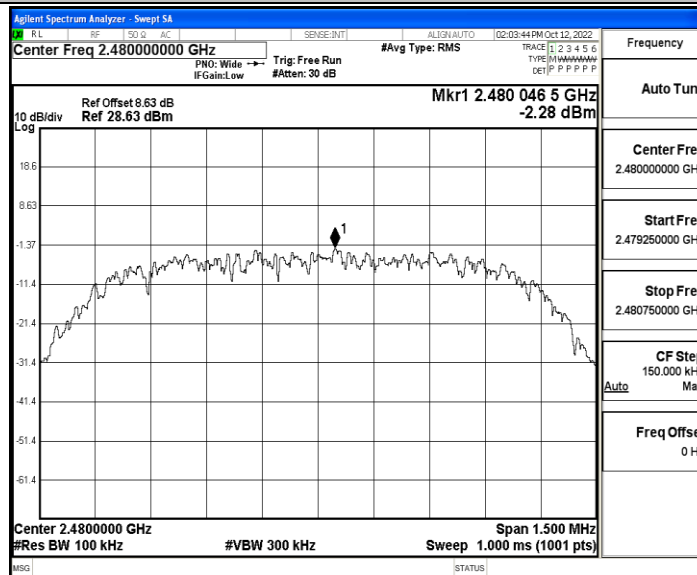
2DH5_Ant_2441_0~Reference





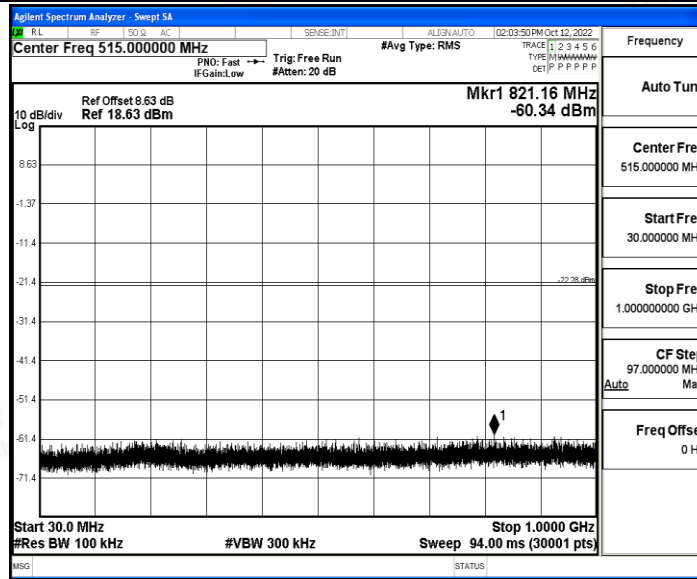


2DH5_Ant_2480_0-Reference

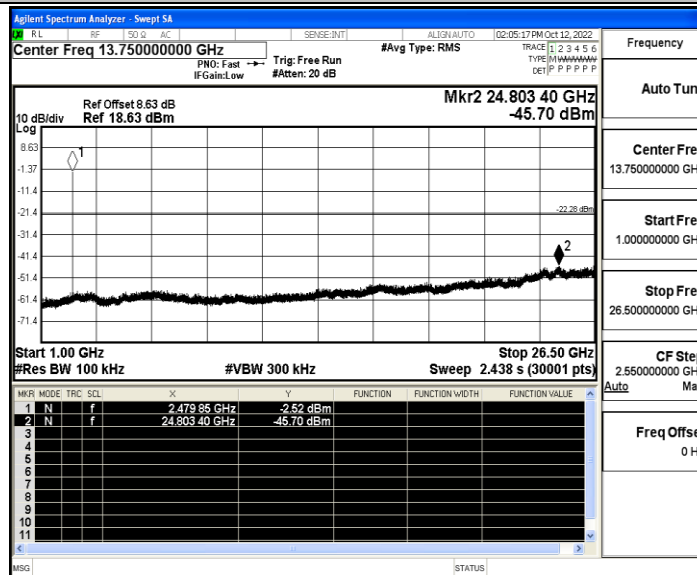


2DH5_Ant_2480_30~1000



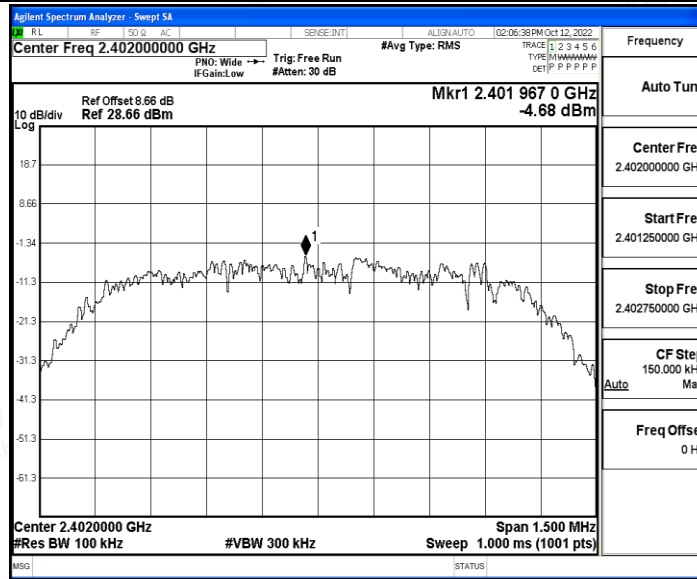


2DH5_Ant_2480_1000~26500

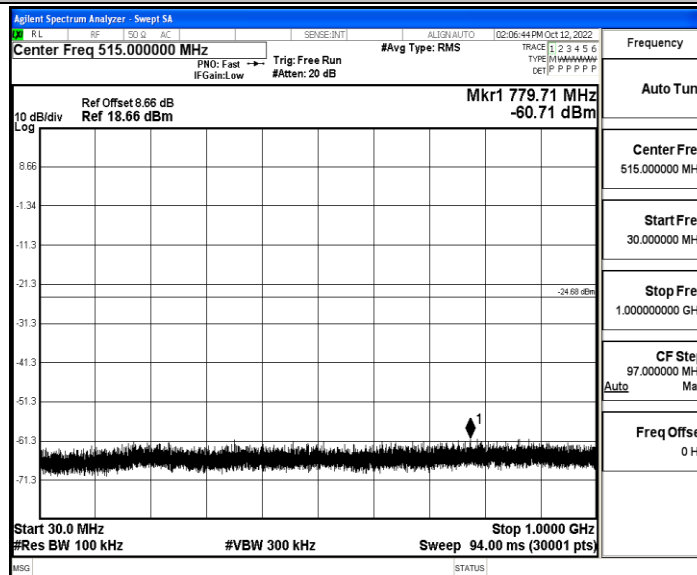


3DH5_Ant_2402_0-Reference



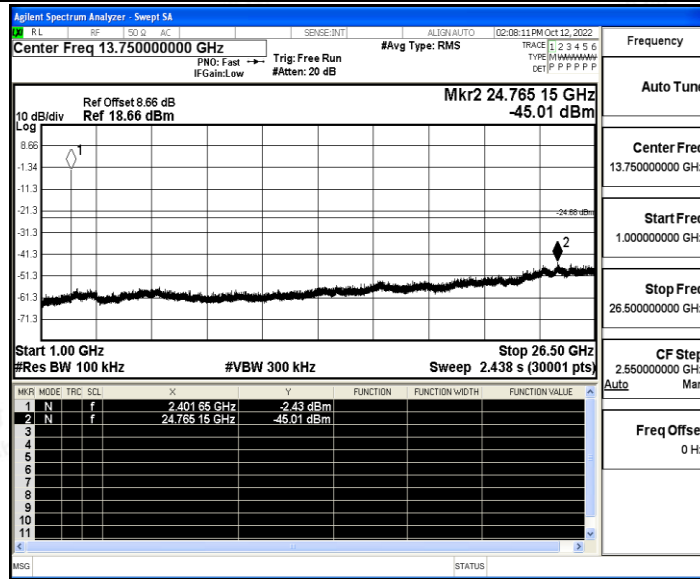


3DH5_Ant_2402_30~1000

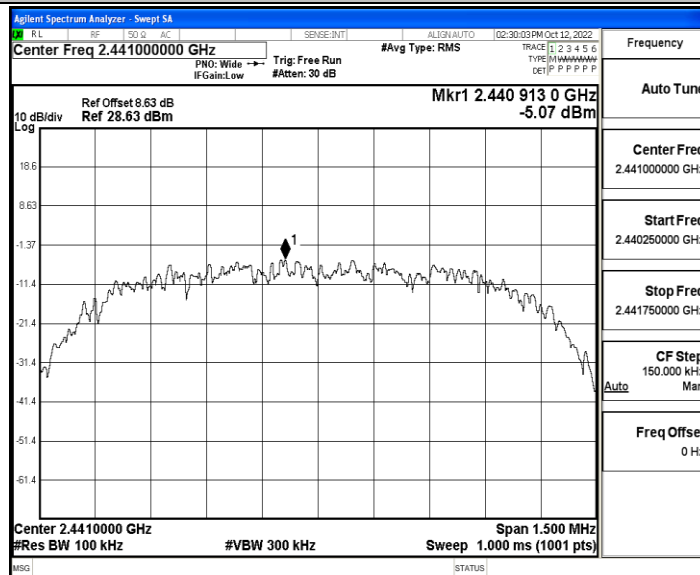


3DH5_Ant_2402_1000~26500



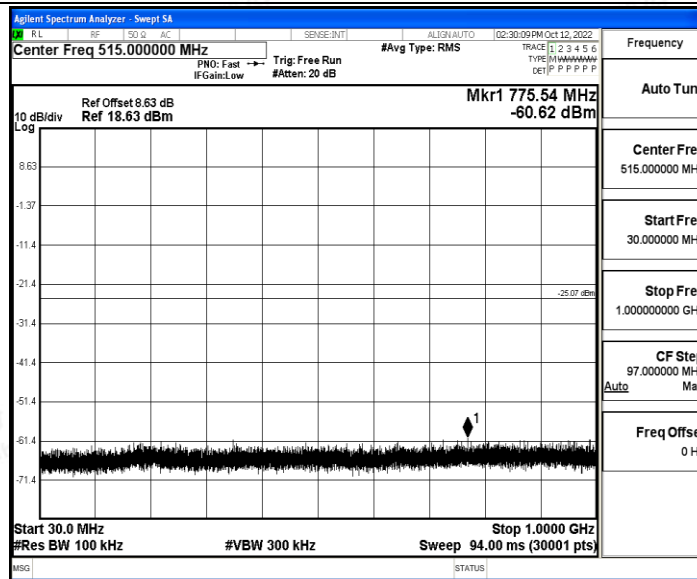


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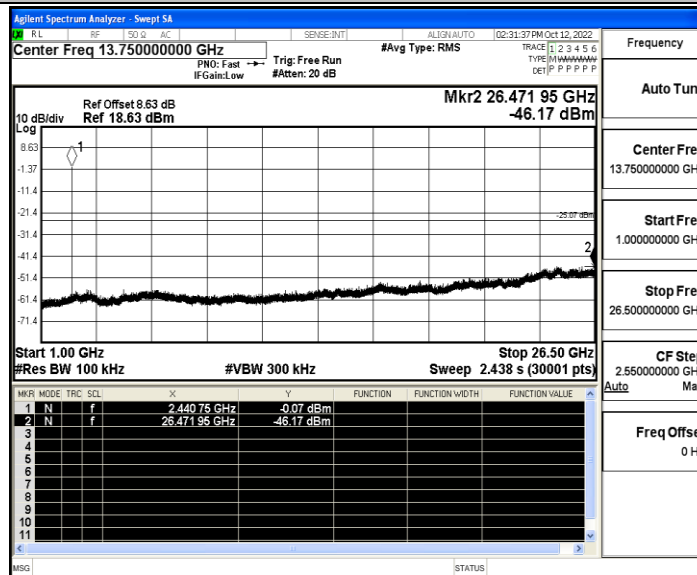


3DH5_Ant_2441_30~1000



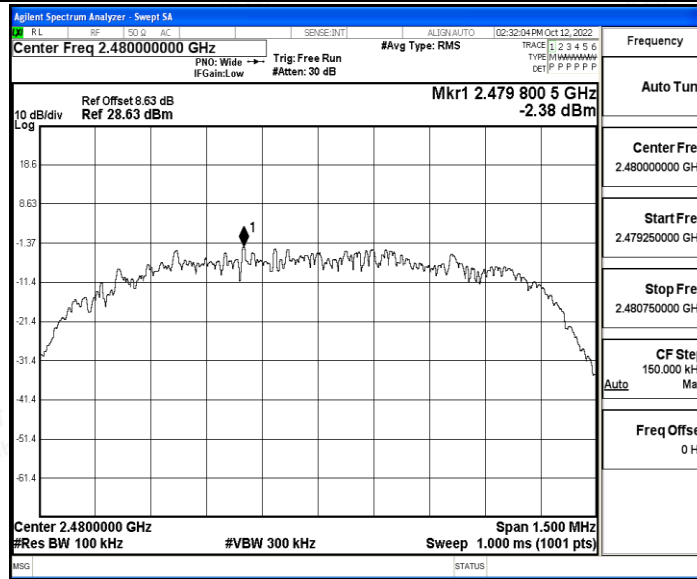


3DH5_Ant_2441_1000~26500

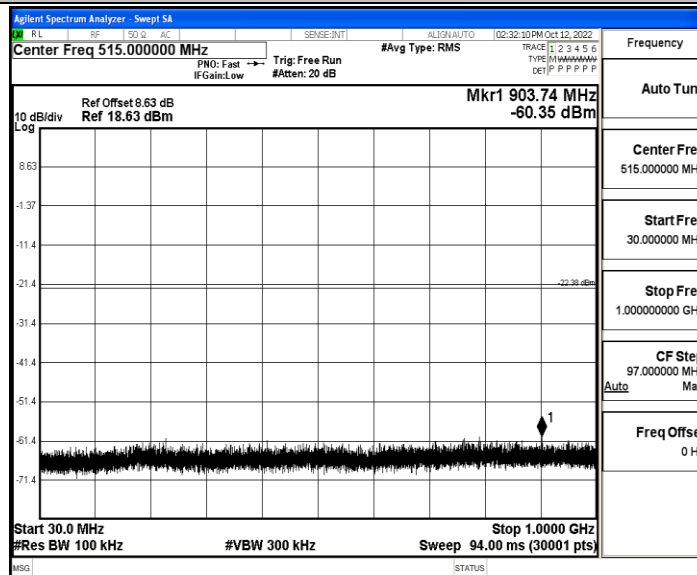


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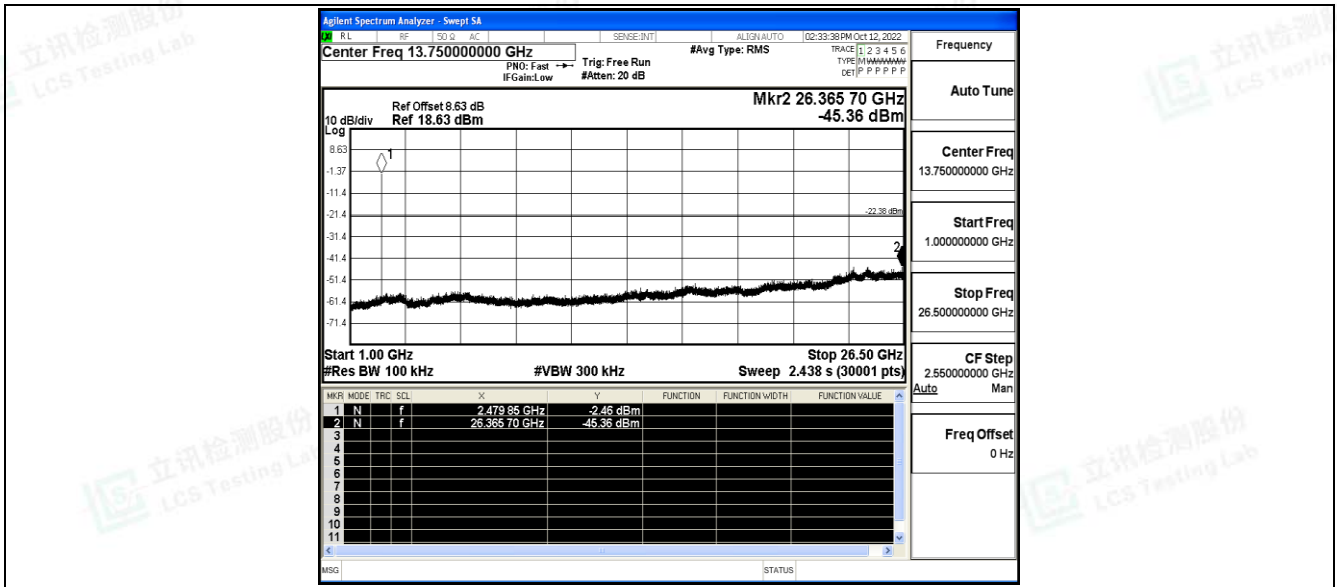


3DH5_Ant_2480_30~1000



3DH5_Ant_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	Ant	Low	2402	AV	2310.000	-58.04	≤-41.20	37.16	≤54	PASS
				AV	2389.040	-57.45	≤-41.20	37.75	≤54	PASS
				AV	2390.000	-57.7	≤-41.20	37.50	≤54	PASS
				Peak	2310.000	-52.85	≤-21.20	42.35	≤74	PASS
				Peak	2317.325	-47.93	≤-21.20	47.27	≤74	PASS
				Peak	2390.000	-53.07	≤-21.20	42.13	≤74	PASS
		High	2480	AV	2483.500	-53.94	≤-41.20	41.26	≤54	PASS
				AV	2483.520	-53.94	≤-41.20	41.26	≤54	PASS
				AV	2500.000	-56.97	≤-41.20	38.23	≤54	PASS
				Peak	2483.500	-51.95	≤-21.20	43.25	≤74	PASS
				Peak	2495.680	-48.25	≤-21.20	46.95	≤74	PASS
				Peak	2500.000	-50.98	≤-21.20	44.22	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-58.03	≤-41.20	37.17	≤54	PASS
				AV	2388.830	-57.43	≤-41.20	37.77	≤54	PASS
				AV	2390.000	-57.64	≤-41.20	37.56	≤54	PASS
				Peak	2310.000	-53.93	≤-21.20	41.27	≤74	PASS
				Peak	2334.335	-48.23	≤-21.20	46.97	≤74	PASS
				Peak	2390.000	-52.45	≤-21.20	42.75	≤74	PASS
		High	2480	AV	2483.500	-53.72	≤-41.20	41.48	≤54	PASS
				AV	2483.520	-53.72	≤-41.20	41.48	≤54	PASS
				AV	2500.000	-56.95	≤-41.20	38.25	≤54	PASS
				Peak	2483.500	-52.12	≤-21.20	43.08	≤74	PASS
				Peak	2495.600	-46.66	≤-21.20	48.54	≤74	PASS
				Peak	2500.000	-50.83	≤-21.20	44.37	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-58.01	≤-41.20	37.19	≤54	PASS
				AV	2384.840	-57.44	≤-41.20	37.76	≤54	PASS
				AV	2390.000	-57.66	≤-41.20	37.54	≤54	PASS
				Peak	2310.000	-51.49	≤-21.20	43.71	≤74	PASS
				Peak	2388.830	-47.01	≤-21.20	48.19	≤74	PASS
				Peak	2390.000	-51.2	≤-21.20	44.00	≤74	PASS
		High	2480	AV	2483.500	-53.69	≤-41.20	41.51	≤54	PASS
				AV	2483.520	-53.69	≤-41.20	41.51	≤54	PASS
				AV	2500.000	-57.13	≤-41.20	38.07	≤54	PASS
				Peak	2483.500	-50.92	≤-21.20	44.28	≤74	PASS
				Peak	2488.400	-48.47	≤-21.20	46.73	≤74	PASS



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Scan code to check authenticity



				Peak	2500.000	-49.23	≤-21.20	45.97	≤74	PASS
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Note:

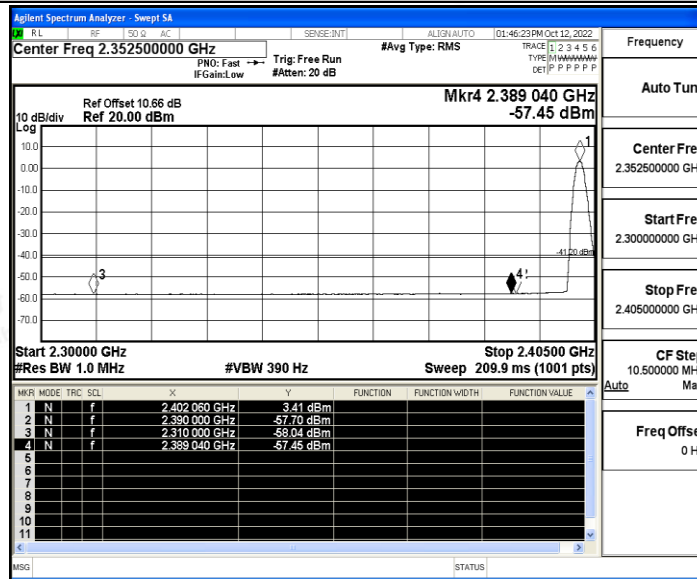
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



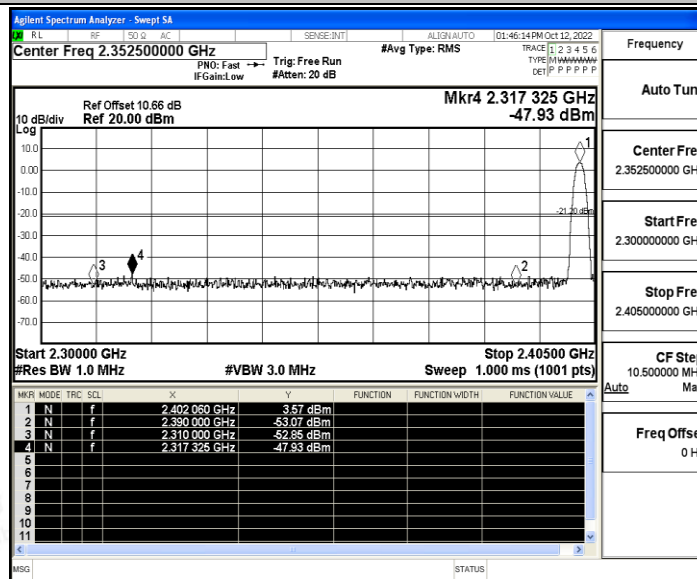


Test Graphs

DH5_Ant_Low_2402_AV

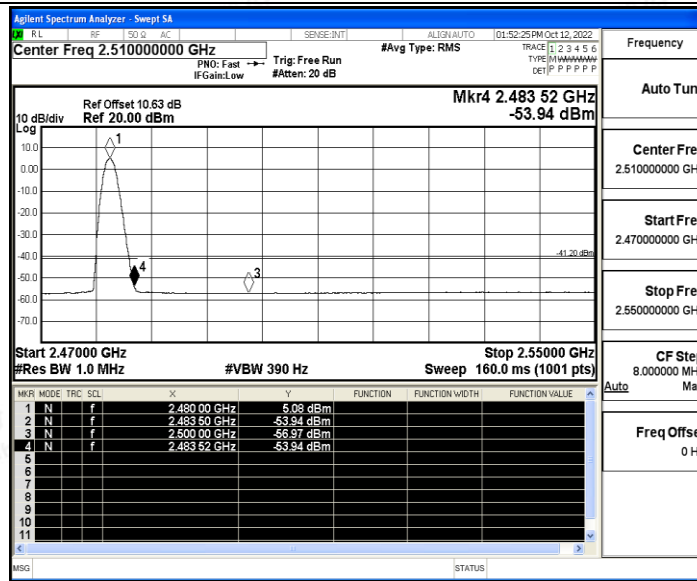


DH5_Ant_Low_2402_Peak

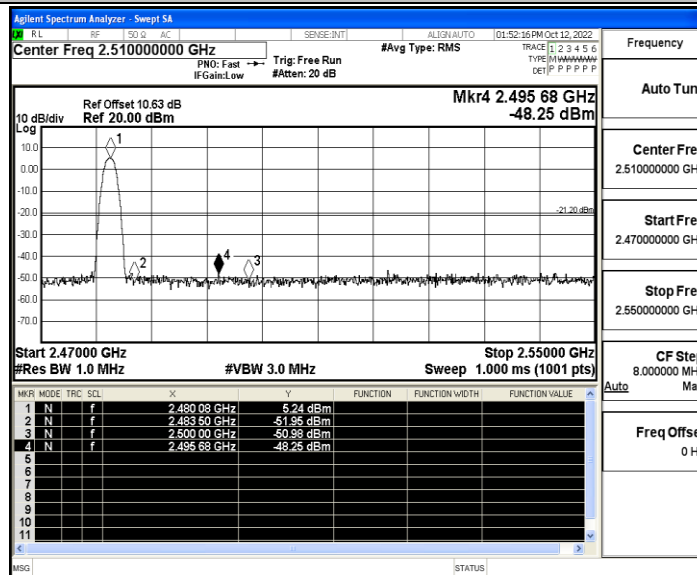


DH5_Ant_High_2480_AV



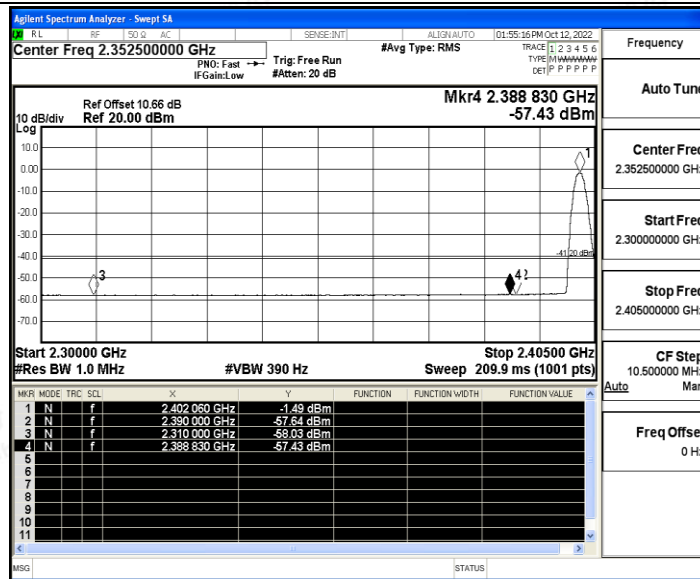


DH5_Ant_High_2480_Peak

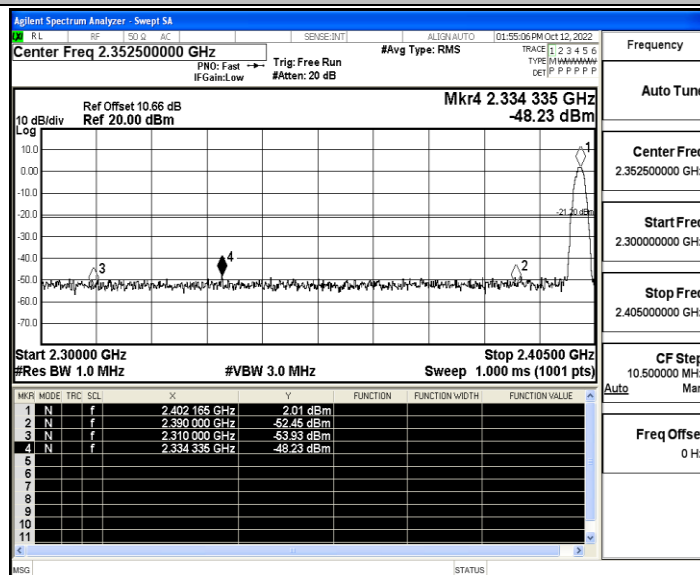


2DH5_Ant_Low_2402_AV



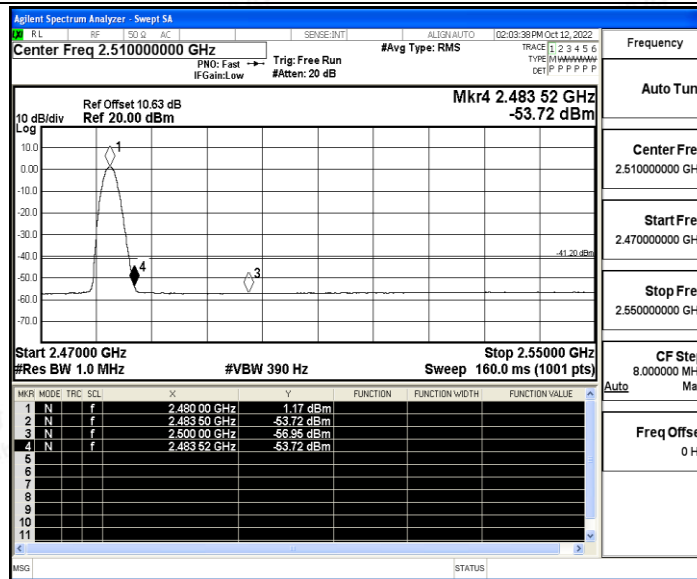


2DH5_Ant_Low_2402_Peak

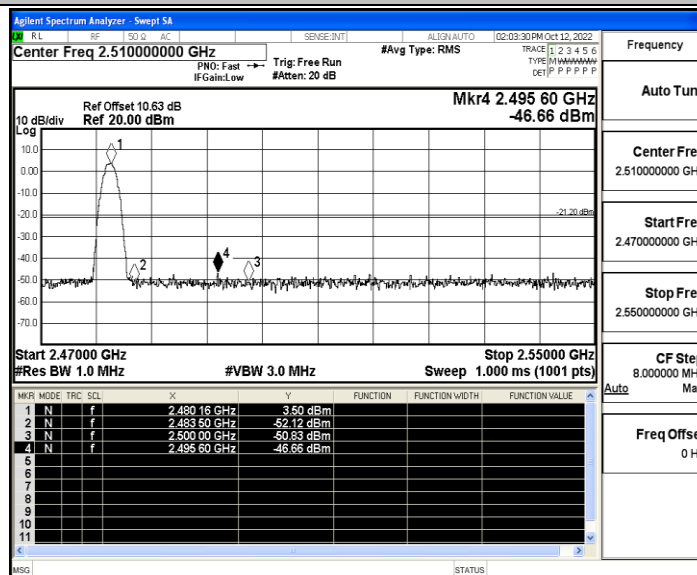


2DH5_Ant_High_2480_AV



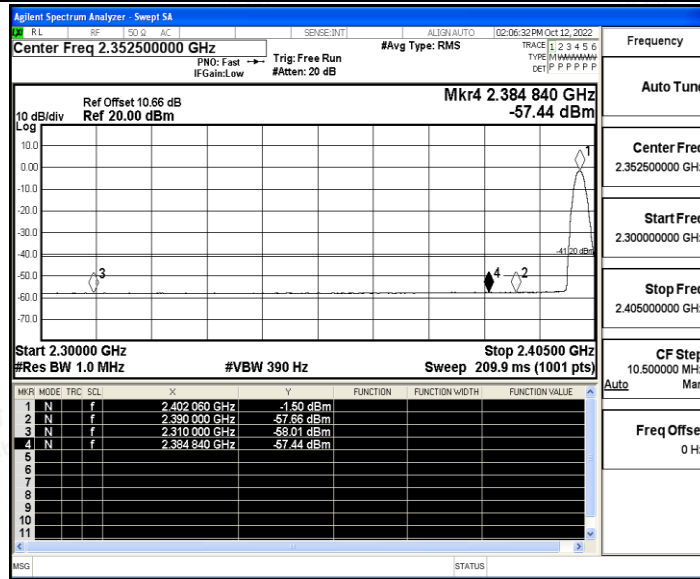


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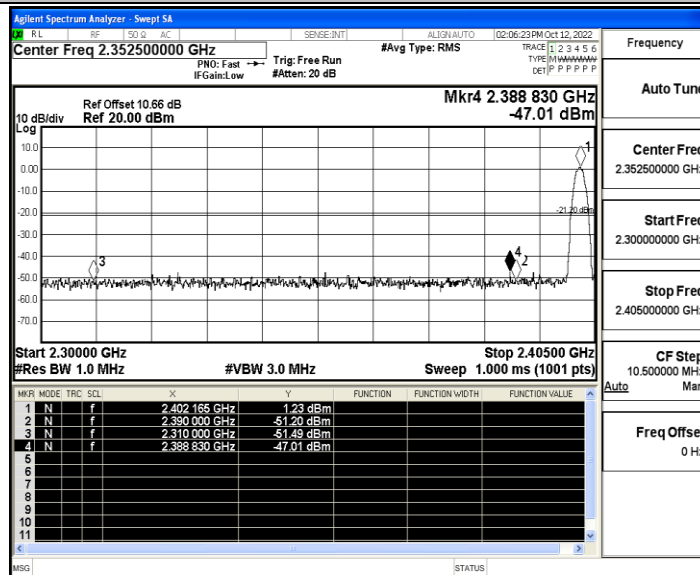


3DH5_Ant_Low_2402_AV



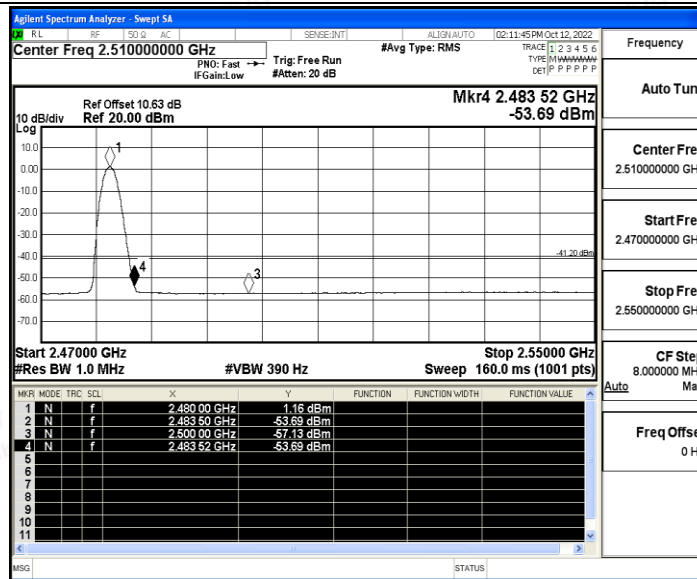


3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV





3DH5_Ant_High_2480_Peak

