



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 2G Feature phone

Test Model: RAYO SOL

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu Ling Zhu
Supervised by:	Li Huan Li Huan





A.1 20dB Emission Bandwidth

Test Result

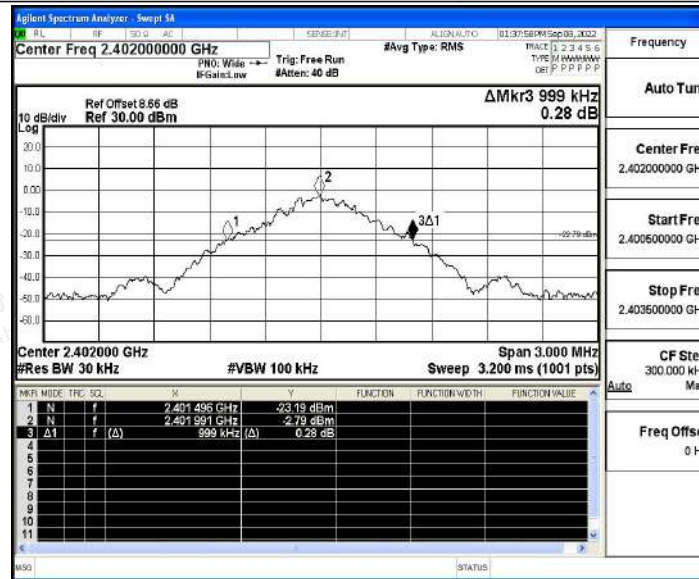
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.999	2401.496	2402.495	---
		2441	0.966	2440.520	2441.486	---
		2480	0.960	2479.529	2480.489	---
2DH5	Ant1	2402	1.341	2401.325	2402.666	---
		2441	1.284	2440.358	2441.642	---
		2480	1.278	2479.367	2480.645	---
3DH5	Ant1	2402	1.290	2401.346	2402.636	---
		2441	1.317	2440.334	2441.651	---
		2480	1.326	2479.331	2480.657	---



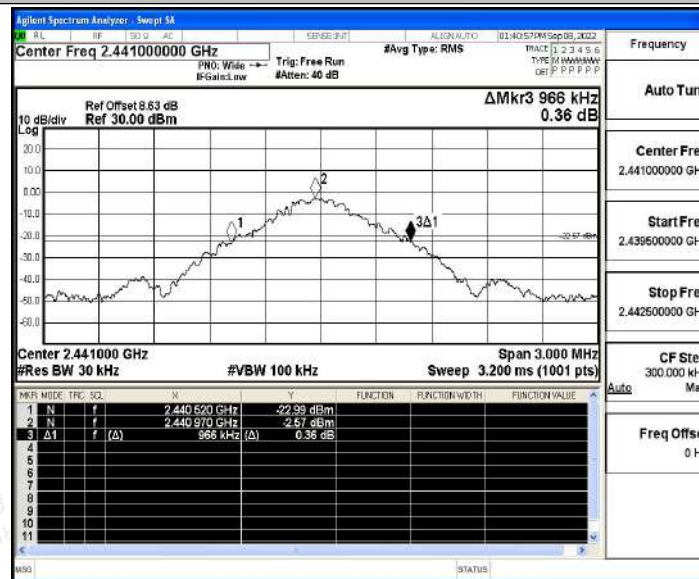


Test Graphs

DH5_Ant1_2402

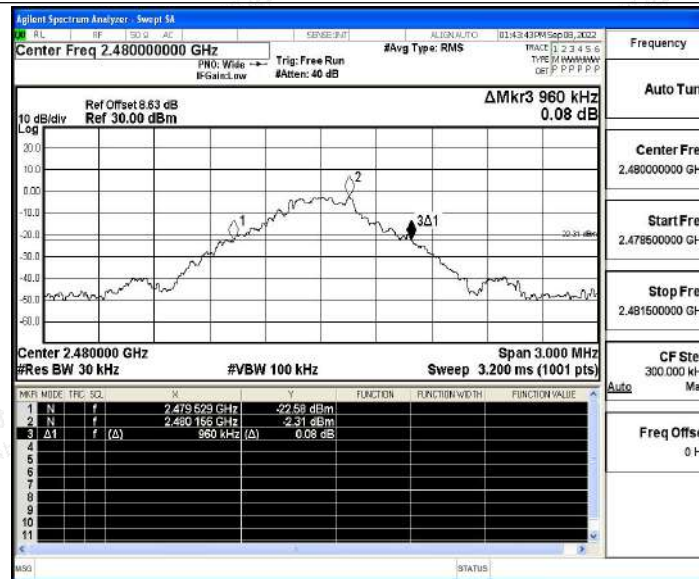


DH5_Ant1_2441

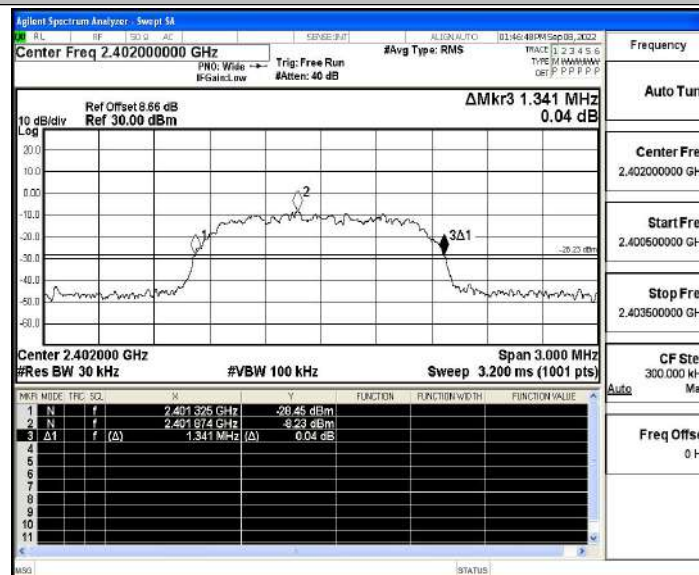


DH5_Ant1_2480



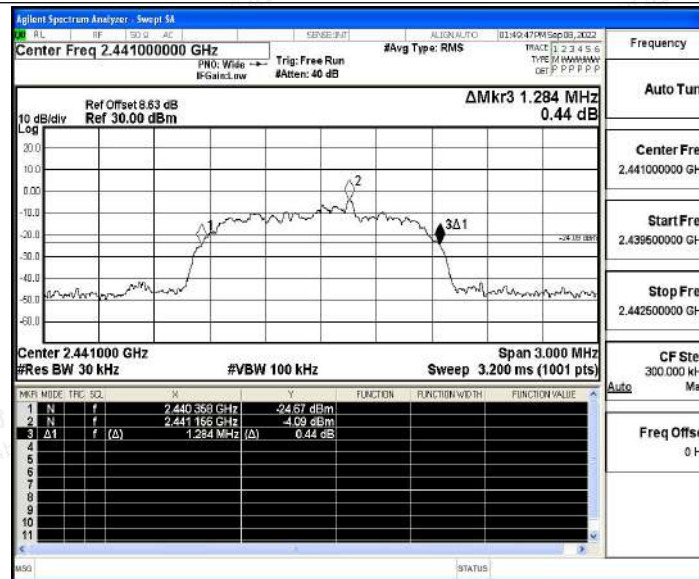


2DH5_Ant1_2402

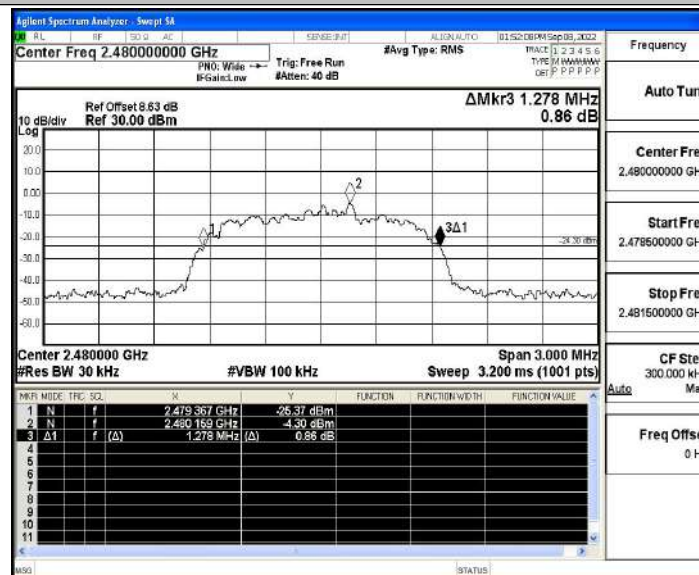


2DH5_Ant1_2441



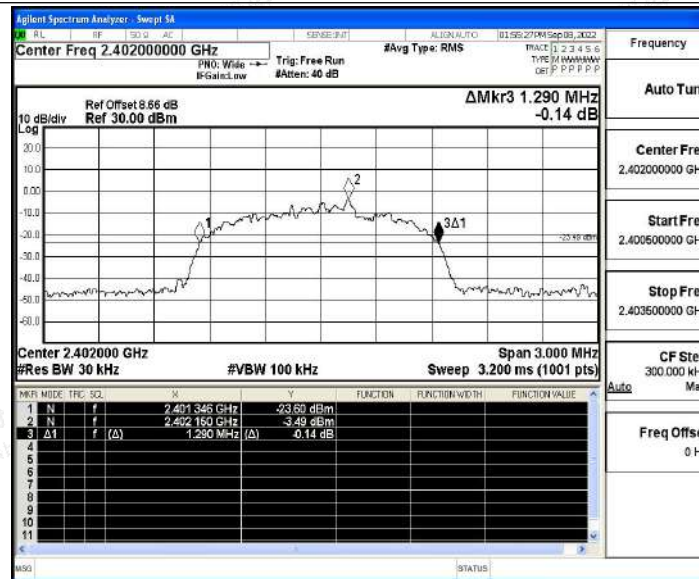


2DH5_Ant1_2480

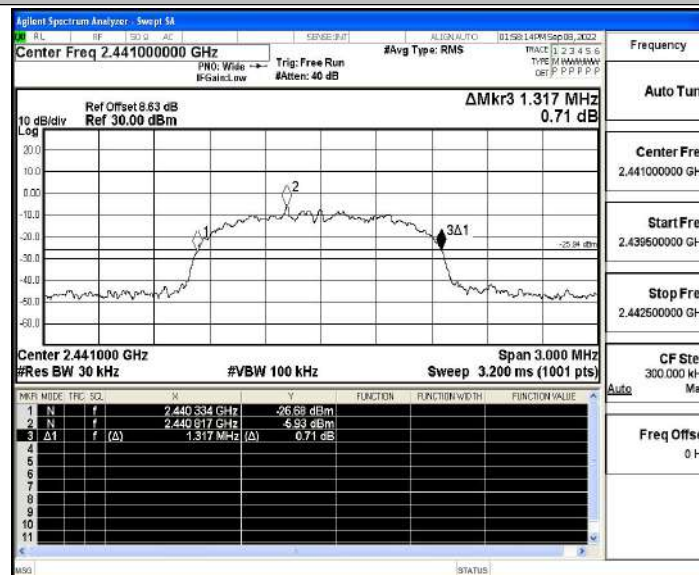


3DH5_Ant1_2402





3DH5_Ant1_2441



3DH5_Ant1_2480

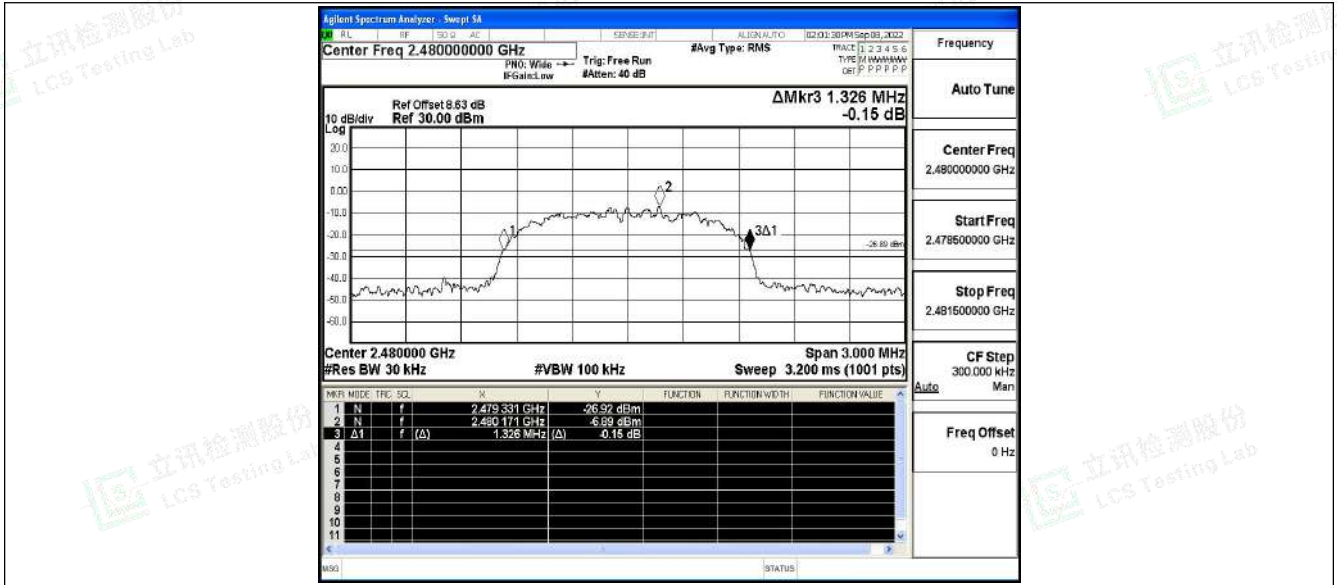


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A.2 Maximum peak conducted output power

Test Result

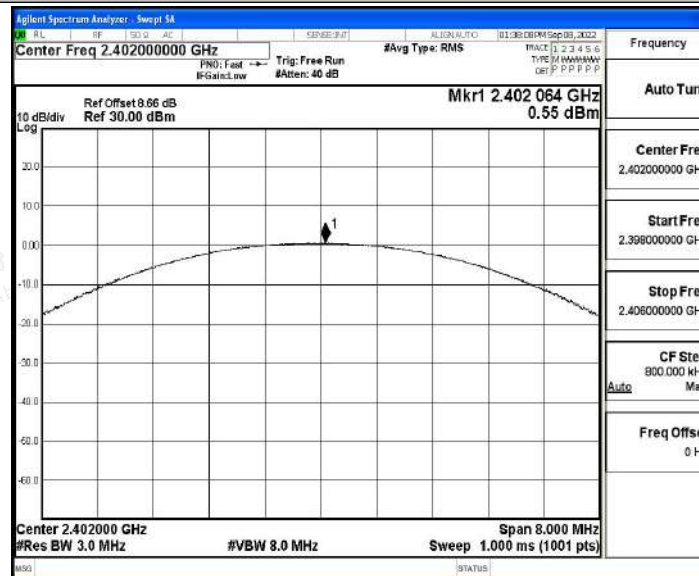
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.55	≤20.97	PASS
		2441	0.46	≤20.97	PASS
		2480	0.39	≤20.97	PASS
2DH5	Ant1	2402	0.05	≤20.97	PASS
		2441	0.03	≤20.97	PASS
		2480	-0.1	≤20.97	PASS
3DH5	Ant1	2402	0.5	≤20.97	PASS
		2441	0.53	≤20.97	PASS
		2480	0.34	≤20.97	PASS



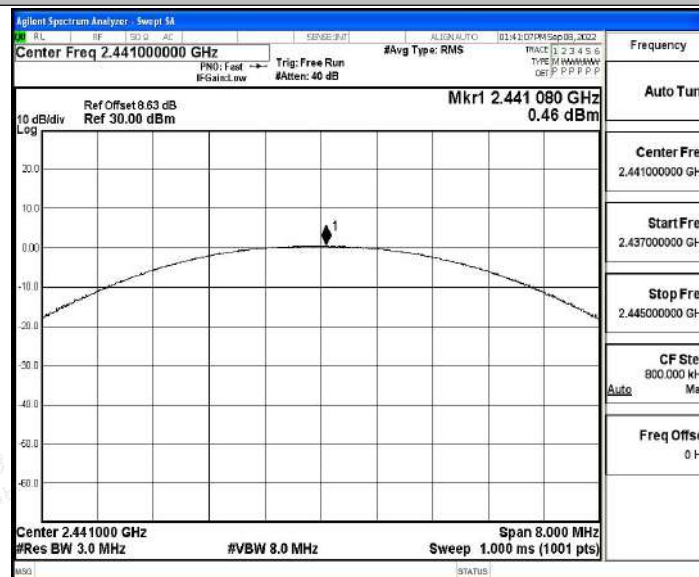


Test Graphs

DH5_Ant1_2402

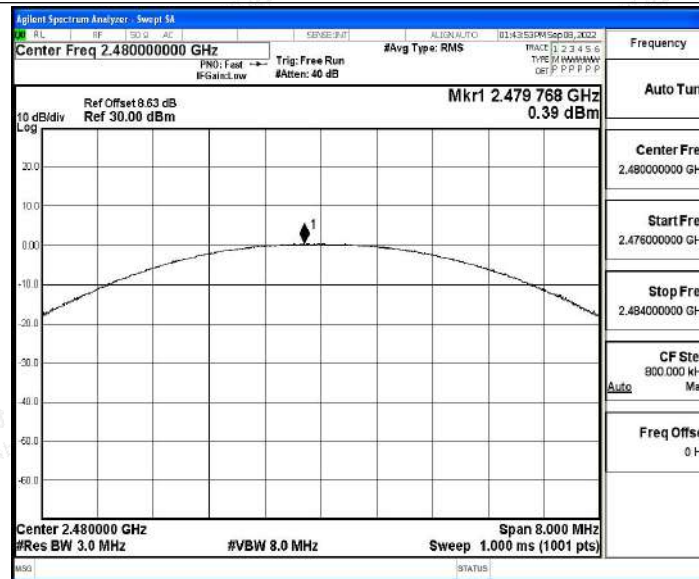


DH5_Ant1_2441

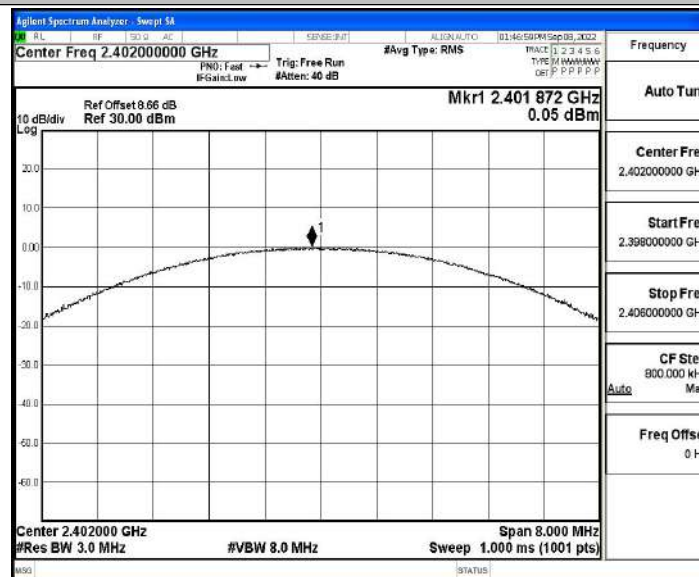


DH5_Ant1_2480



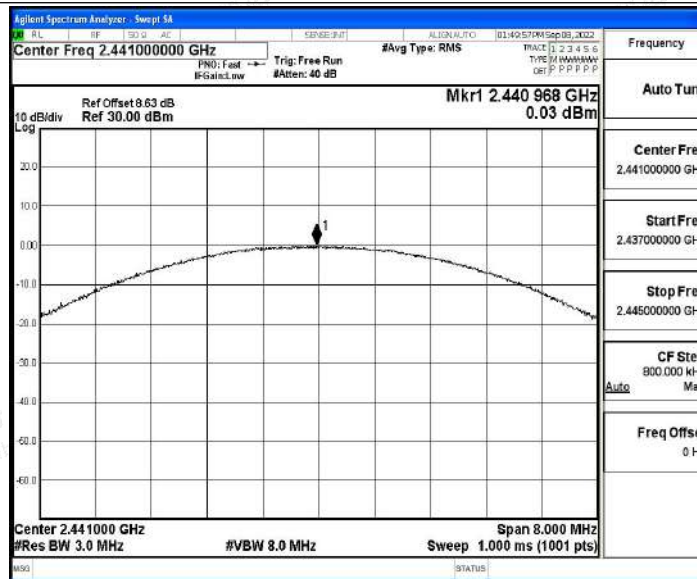


2DH5_Ant1_2402

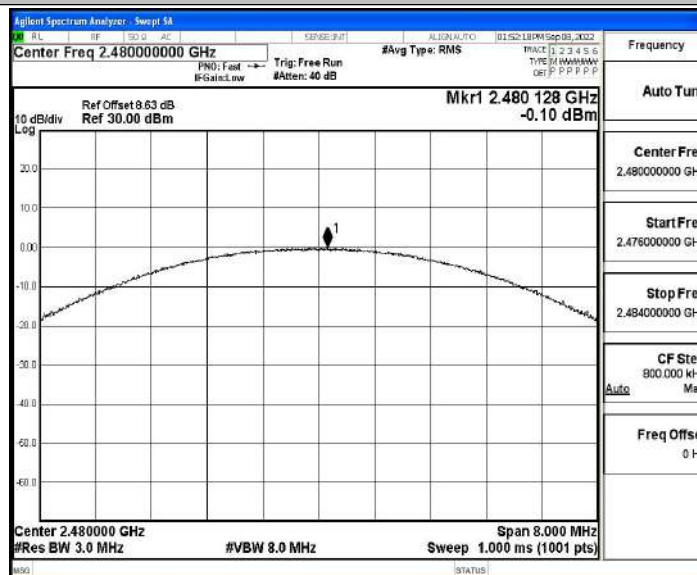


2DH5_Ant1_2441



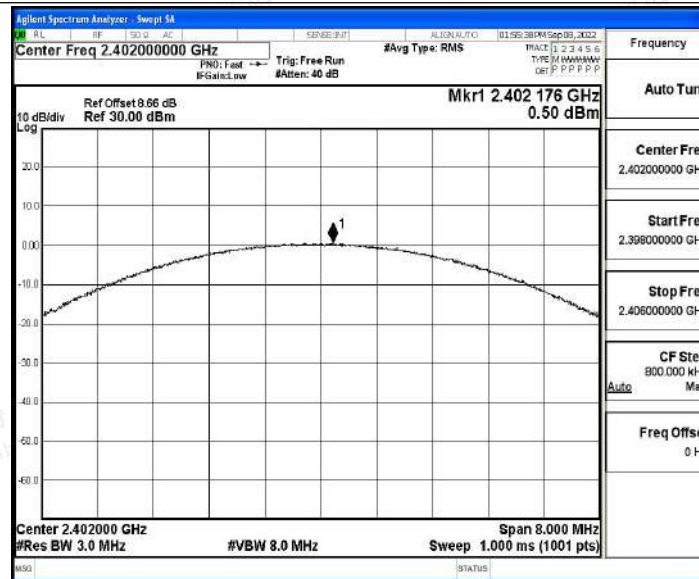


2DH5_Ant1_2480

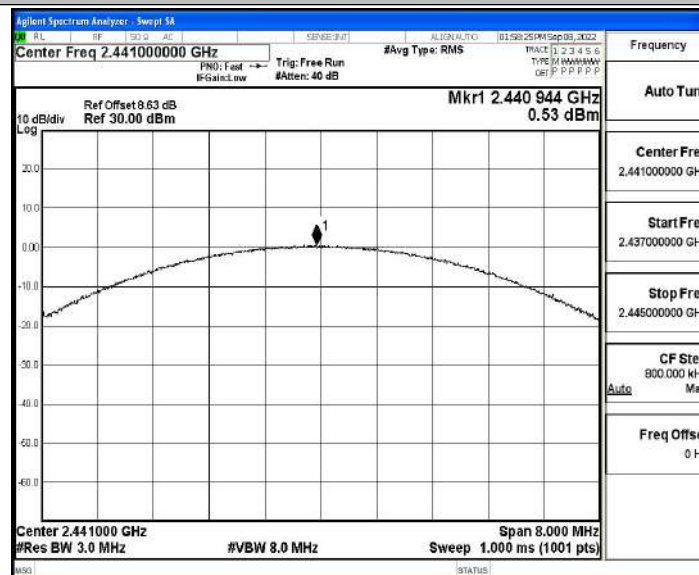


3DH5_Ant1_2402



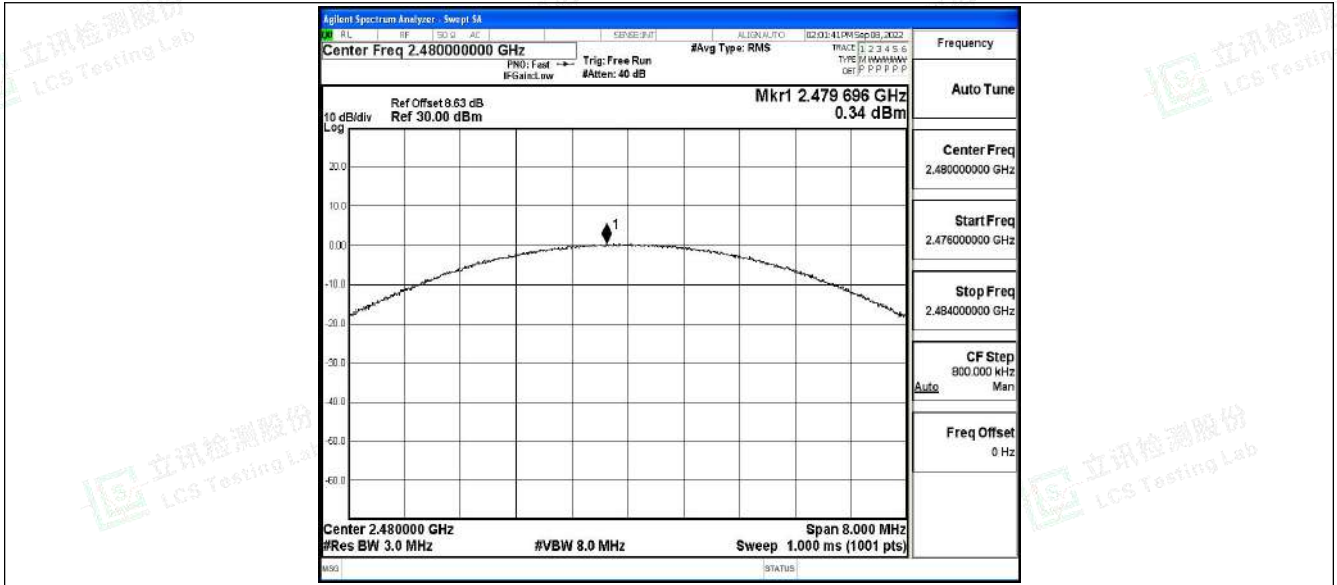


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

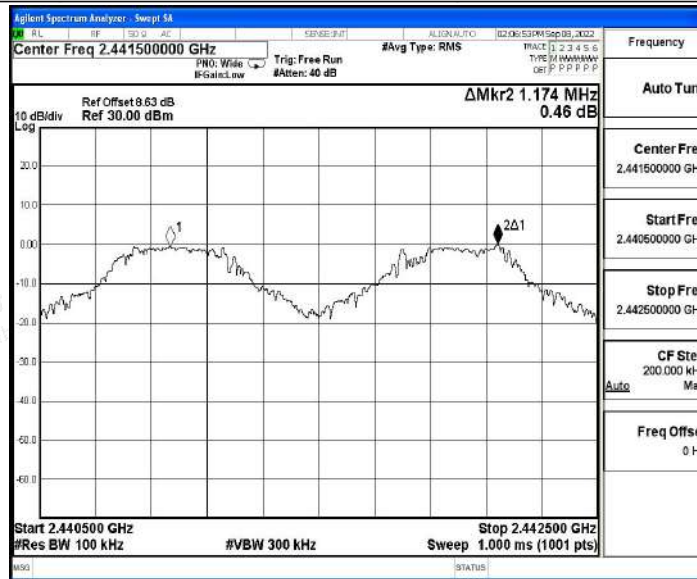
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.174	≥0.999	PASS
2DH5	Ant1	Hop	1.058	≥0.894	PASS
3DH5	Ant1	Hop	1.046	≥0.884	PASS



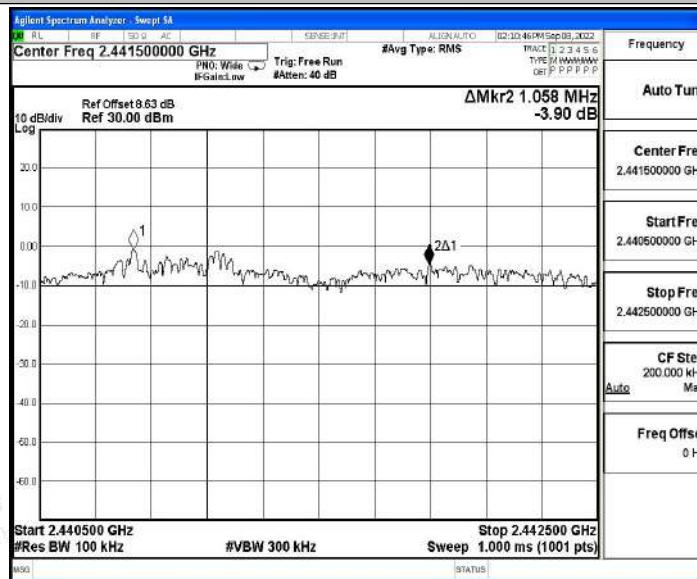


Test Graphs

DH5_Ant1_Hop

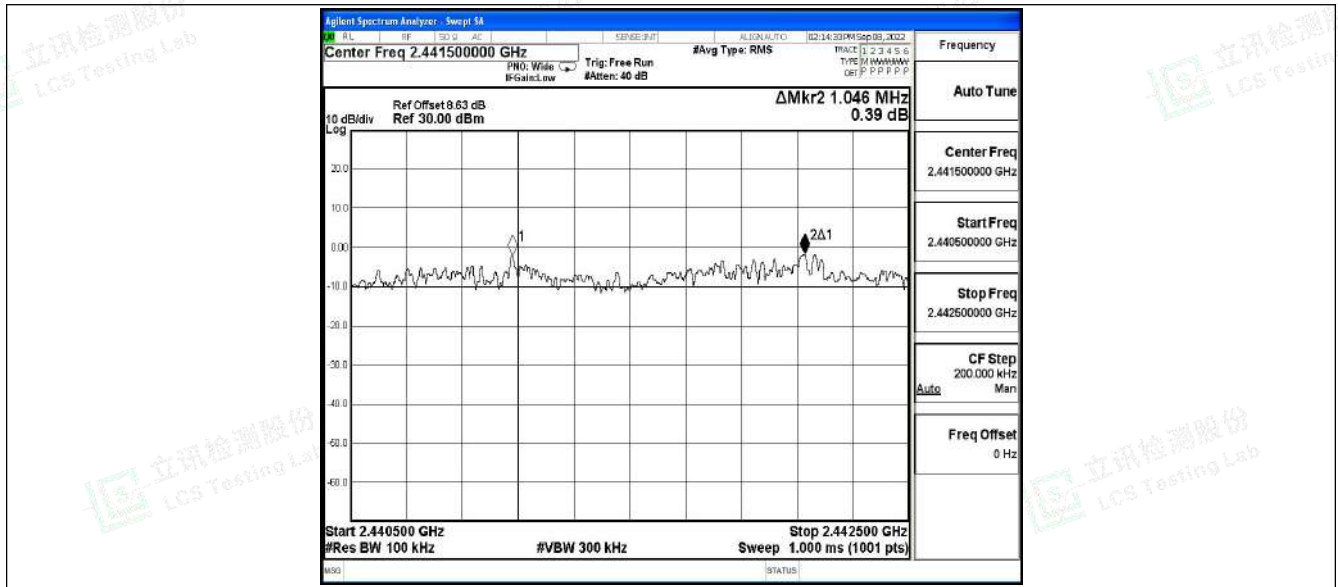


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

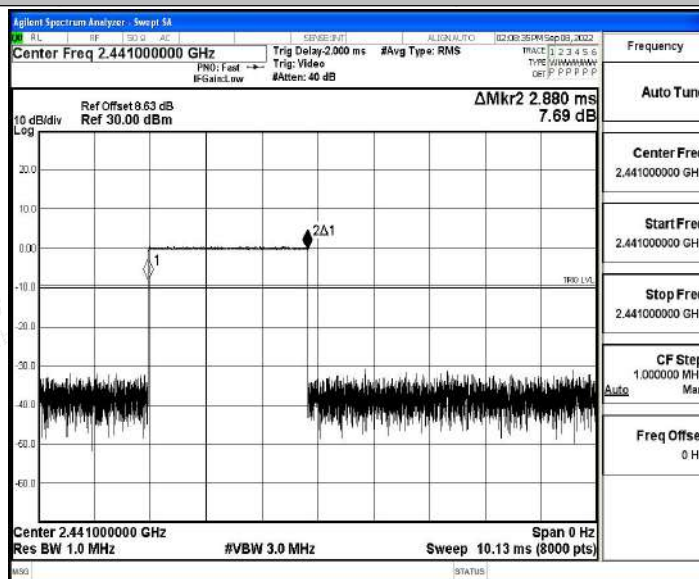
Test Result

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	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

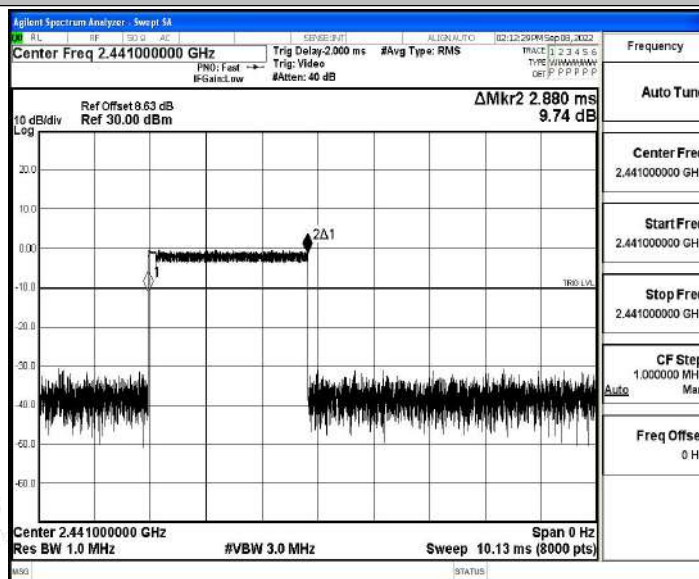


Test Graphs

DH5 Ant1 Hop

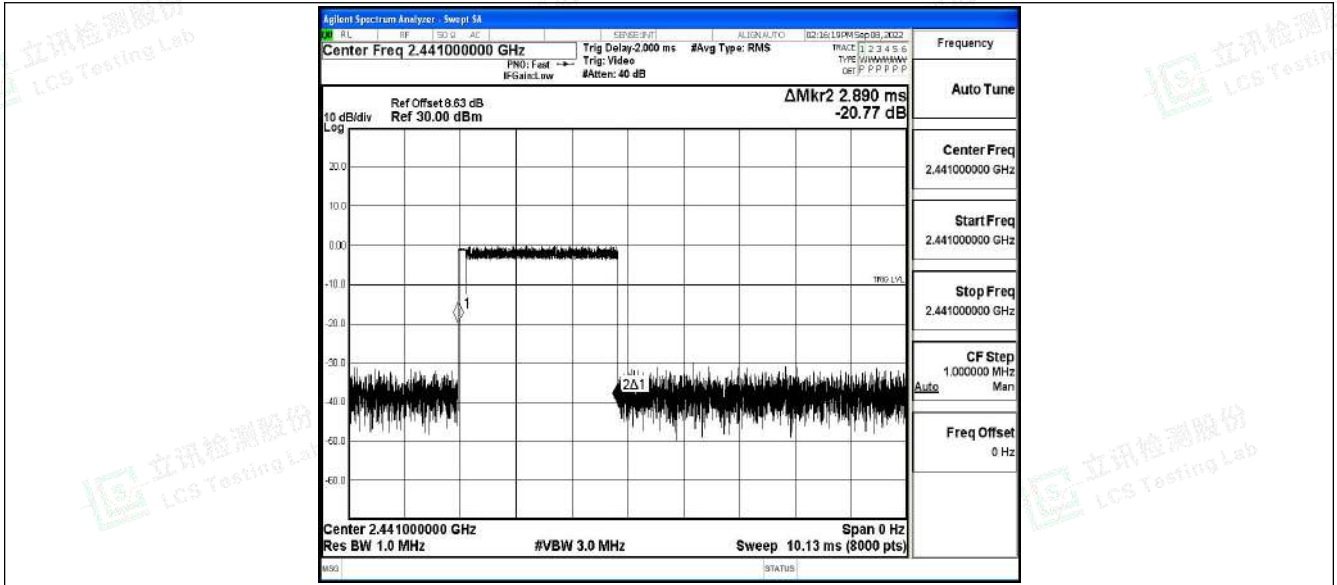


2DH5 Ant1 Hop



3DH5 Ant1 Hop







A.5 Number of hopping channels

Test Result

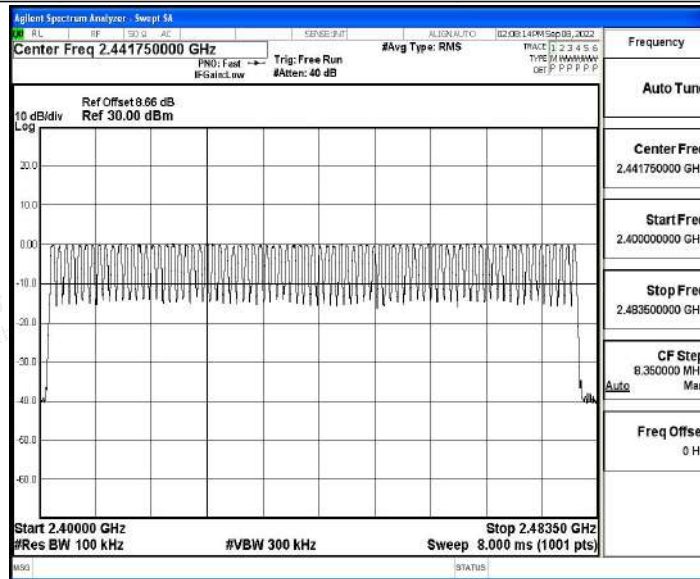
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



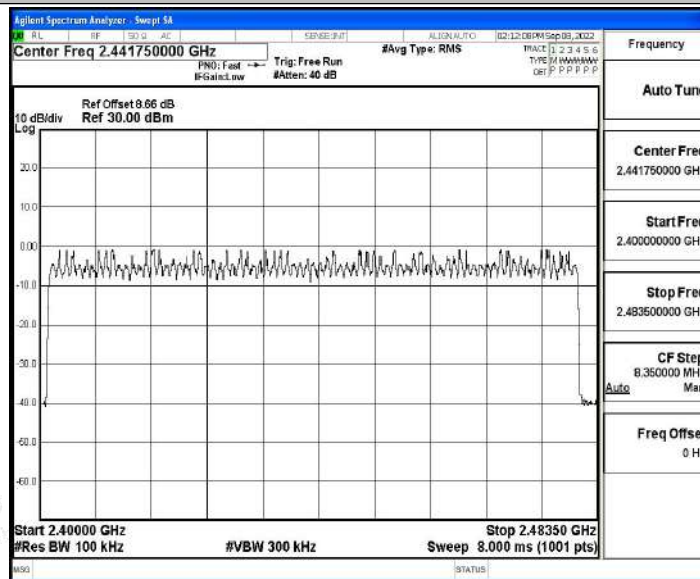


Test Graphs

DH5_Ant1_Hop

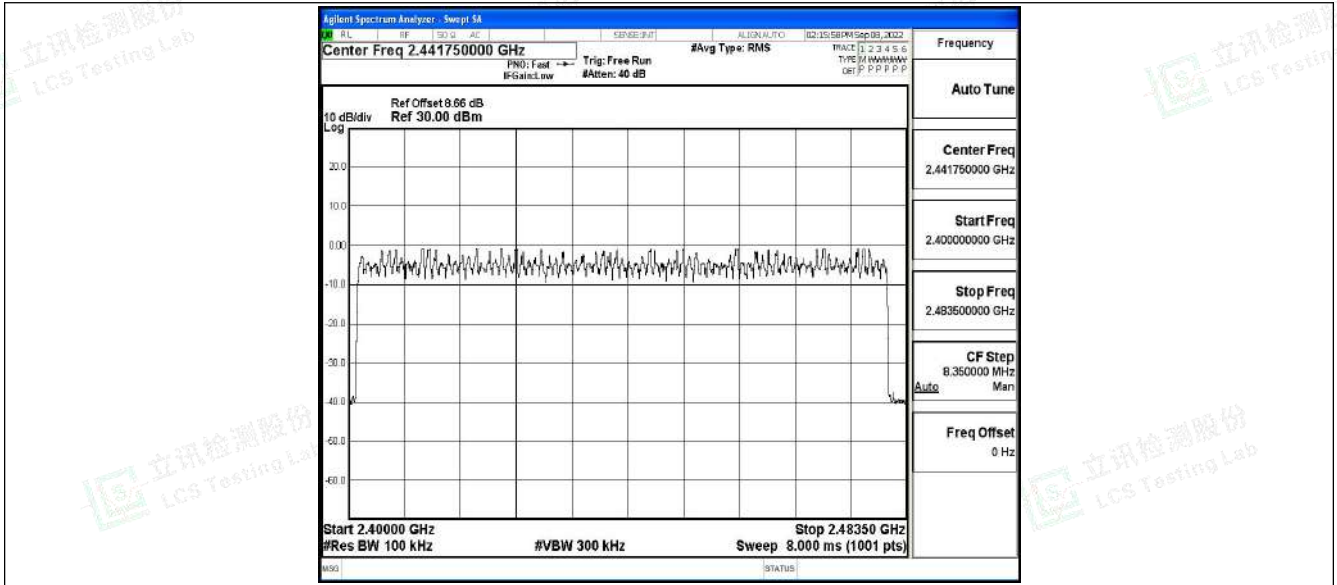


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

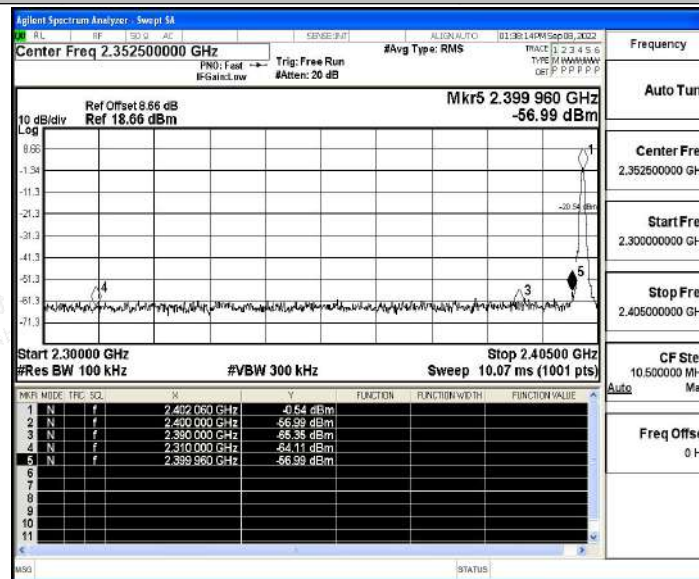
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-56.99	≤-20.54	PASS
		High	2480	-0.99	-59.9	≤-20.99	PASS
		Low	Hop_2402	-0.55	-58.62	≤-20.55	PASS
		High	Hop_2480	-0.02	-57.12	≤-20.02	PASS
2DH5	Ant1	Low	2402	-4.74	-58.66	≤-24.74	PASS
		High	2480	-1.41	-59.09	≤-21.41	PASS
		Low	Hop_2402	-5.56	-59.4	≤-25.56	PASS
		High	Hop_2480	-3.03	-57.07	≤-23.03	PASS
3DH5	Ant1	Low	2402	-3.29	-58.61	≤-23.29	PASS
		High	2480	-4.72	-58.21	≤-24.72	PASS
		Low	Hop_2402	-1.48	-59.01	≤-21.48	PASS
		High	Hop_2480	-3.28	-57.25	≤-23.28	PASS



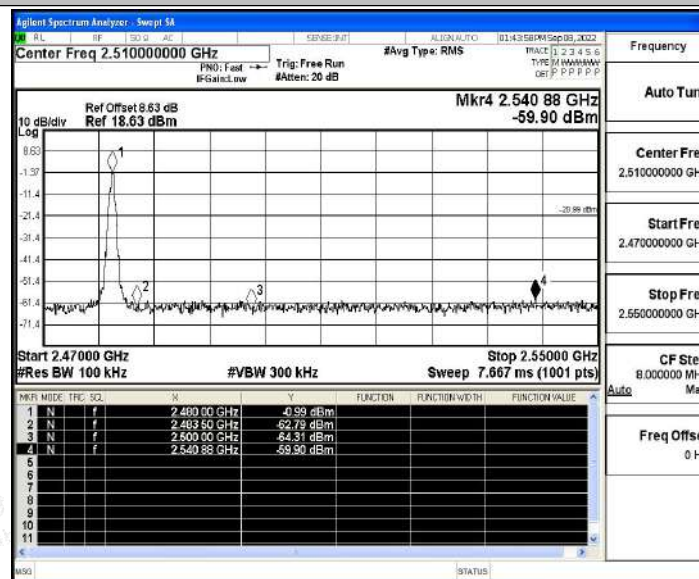


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

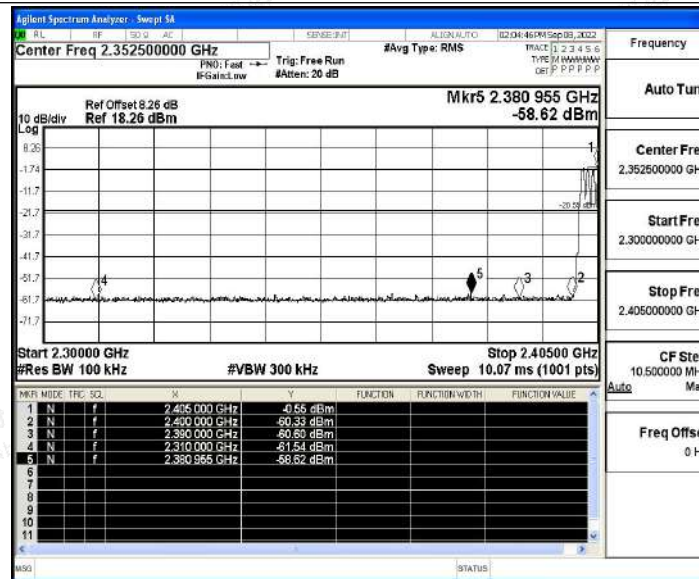


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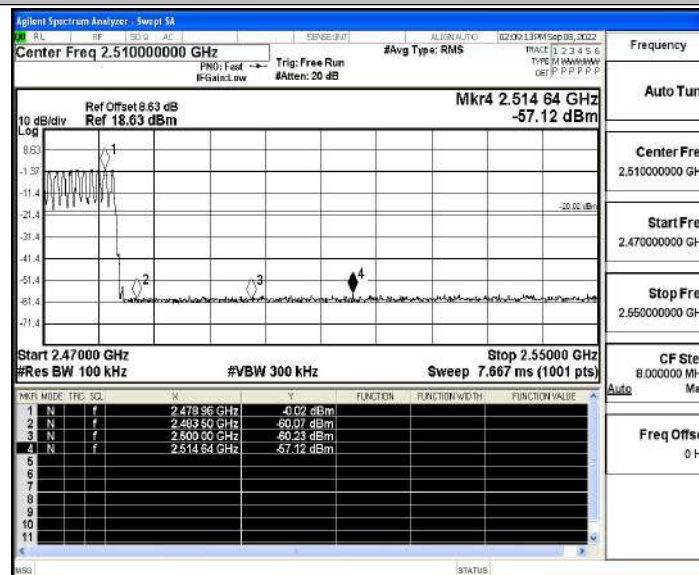
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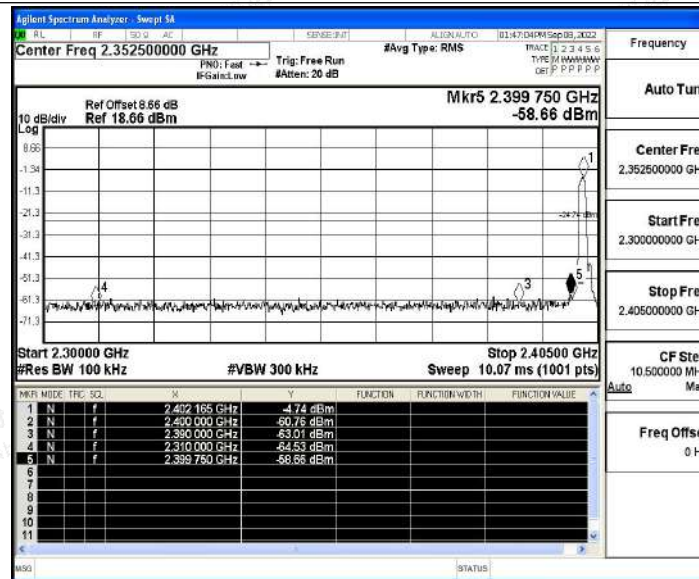


DH5_Ant1_High_Hop_2480

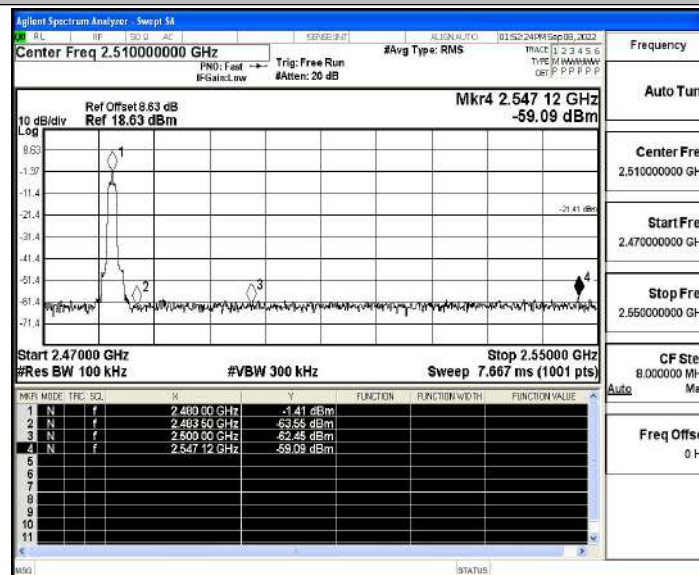


2DH5_Ant1_Low_2402



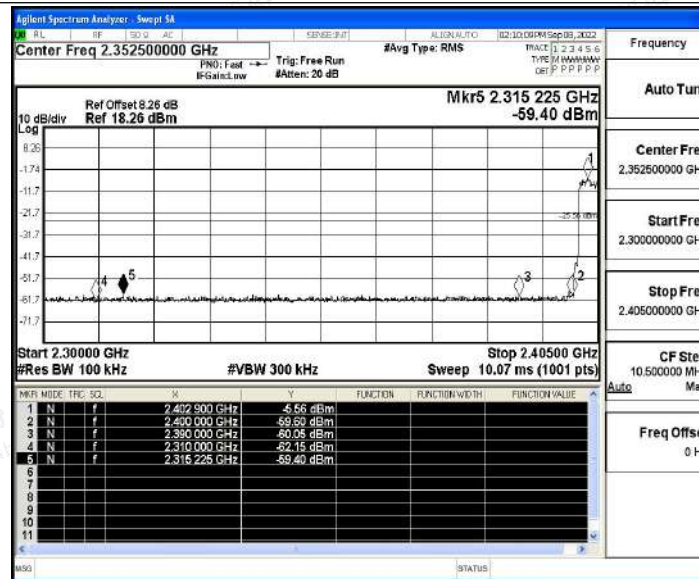


2DH5_Ant1_High_2480

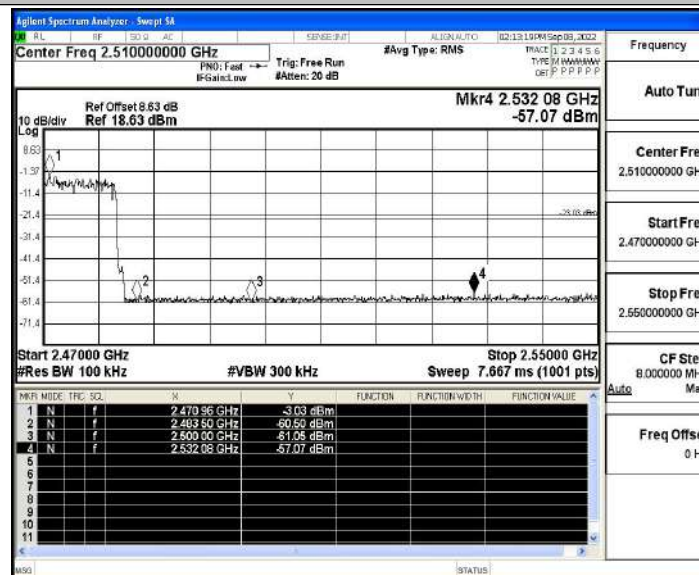


2DH5_Ant1_Low_Hop_2402



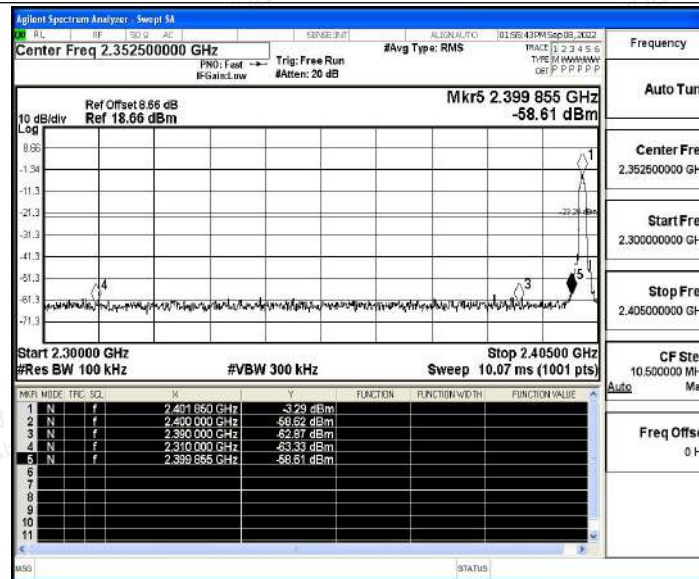


2DH5_Ant1_High_Hop_2480

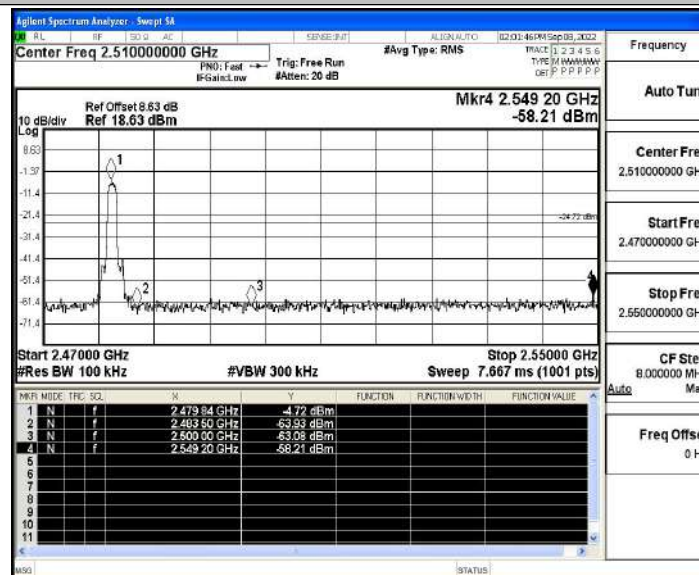


3DH5_Ant1_Low_2402



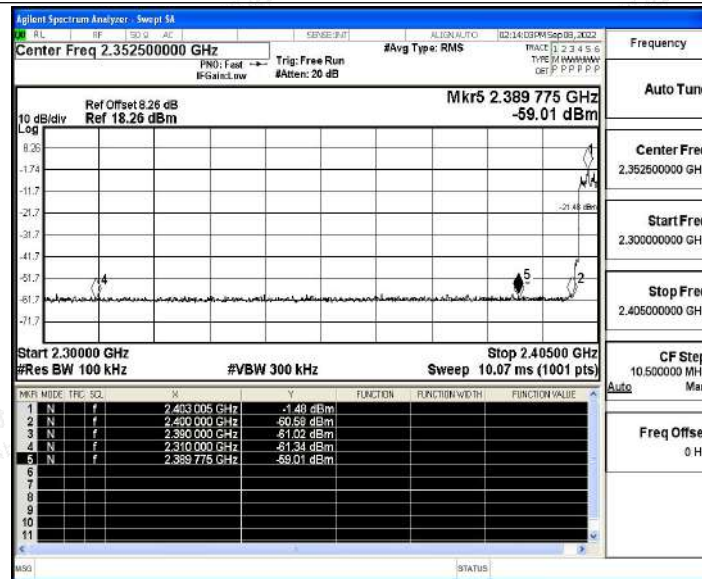


3DH5_Ant1_High_2480

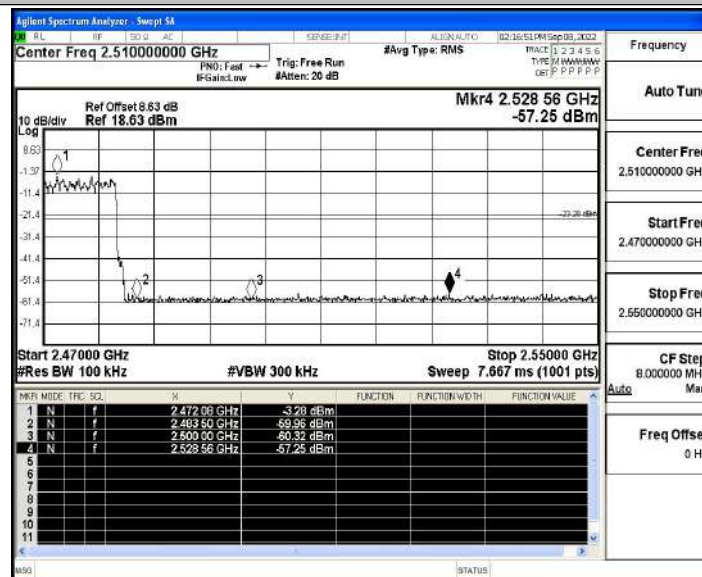


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-60.98	≤ -20.53	PASS
			1000~26500	-0.53	-46.64	≤ -20.53	PASS
		2441	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-60.81	≤ -20.42	PASS
			1000~26500	-0.42	-46.1	≤ -20.42	PASS
		2480	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-60.69	≤ -20.91	PASS
			1000~26500	-0.91	-45.81	≤ -20.91	PASS
2DH5	Ant1	2402	Reference	-5.40	-5.40	---	PASS
			30~1000	-5.40	-60.89	≤ -25.4	PASS
			1000~26500	-5.40	-46.51	≤ -25.4	PASS
		2441	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-60.23	≤ -22.19	PASS
			1000~26500	-2.19	-46.33	≤ -22.19	PASS
		2480	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-61.25	≤ -25.74	PASS
			1000~26500	-5.74	-45.41	≤ -25.74	PASS
3DH5	Ant1	2402	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-59.94	≤ -22.21	PASS
			1000~26500	-2.21	-46.02	≤ -22.21	PASS
		2441	Reference	-5.53	-5.53	---	PASS
			30~1000	-5.53	-61.02	≤ -25.53	PASS
			1000~26500	-5.53	-46.13	≤ -25.53	PASS
		2480	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-61.09	≤ -24.43	PASS
			1000~26500	-4.43	-46.44	≤ -24.43	PASS



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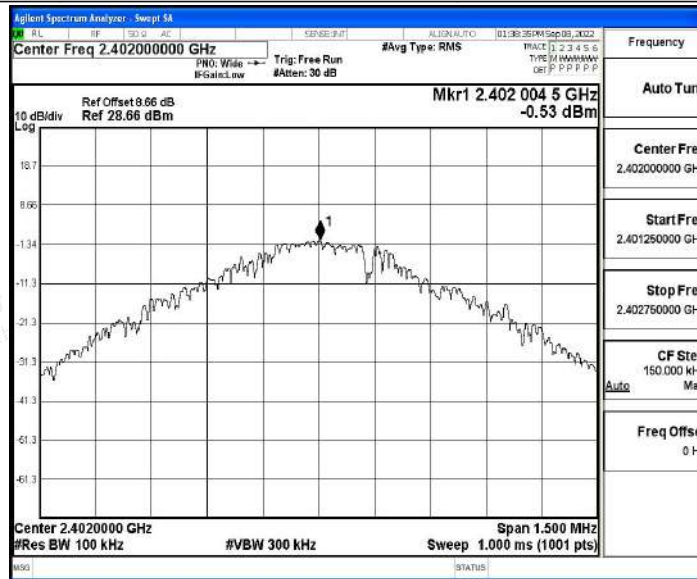
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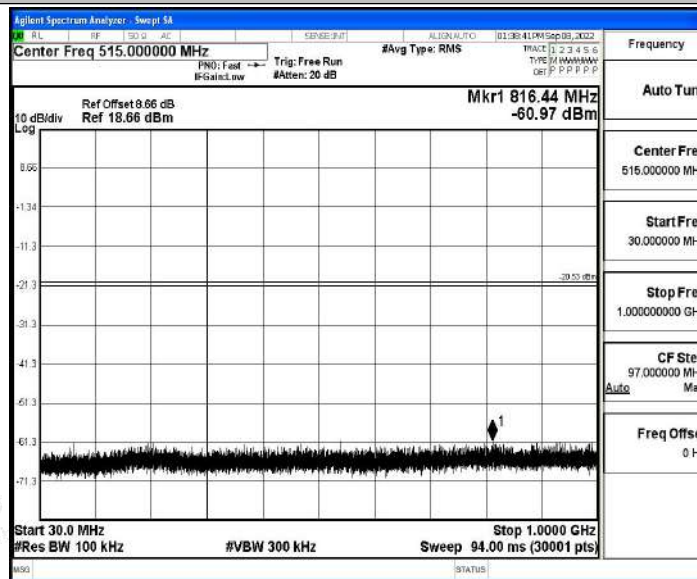


Test Graphs

DH5_Ant1_2402_0~Reference

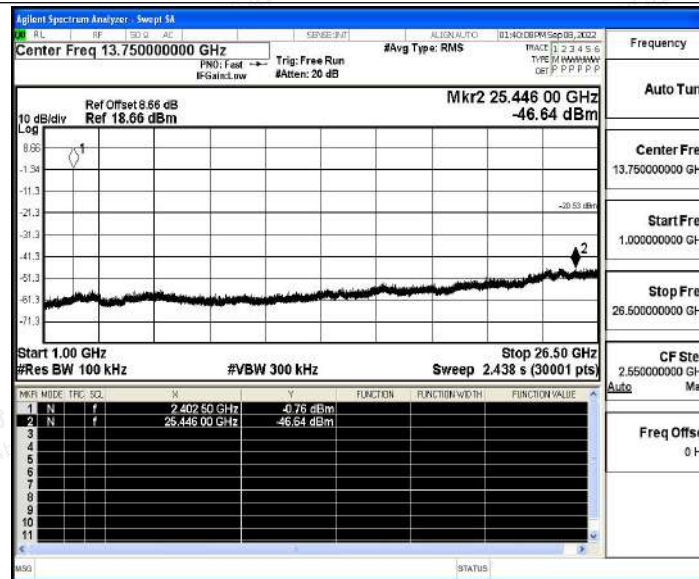


DH5_Ant1_2402_30~1000

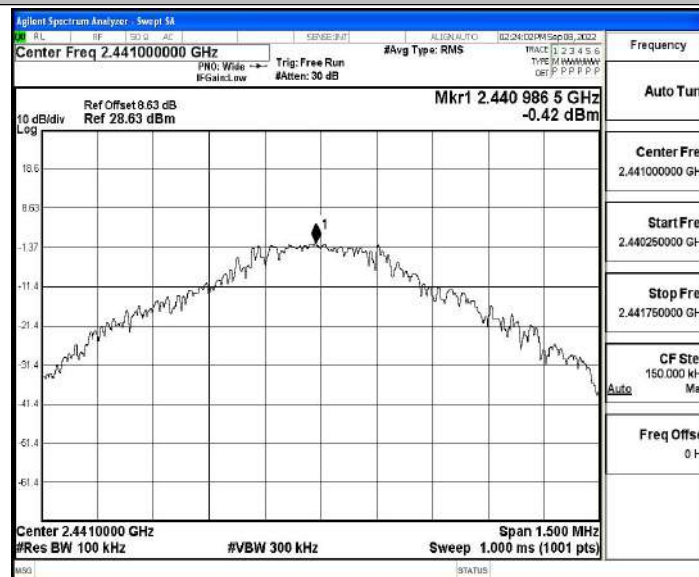


DH5_Ant1_2402_1000~26500



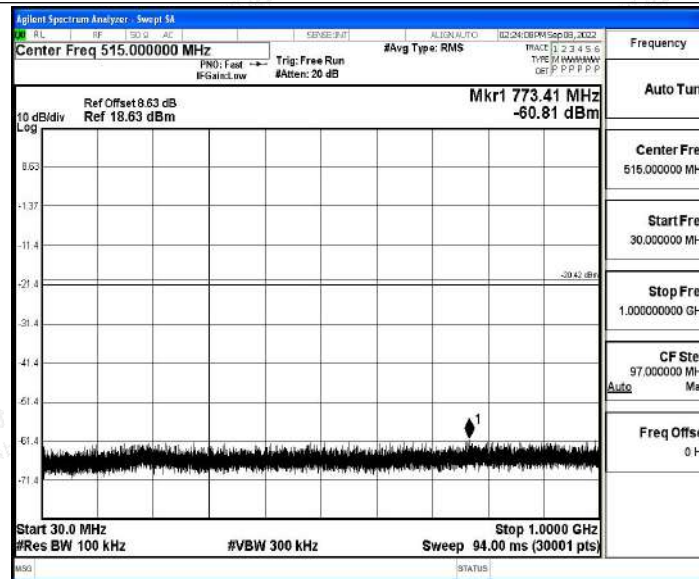


DH5_Ant1_2441_0~Reference

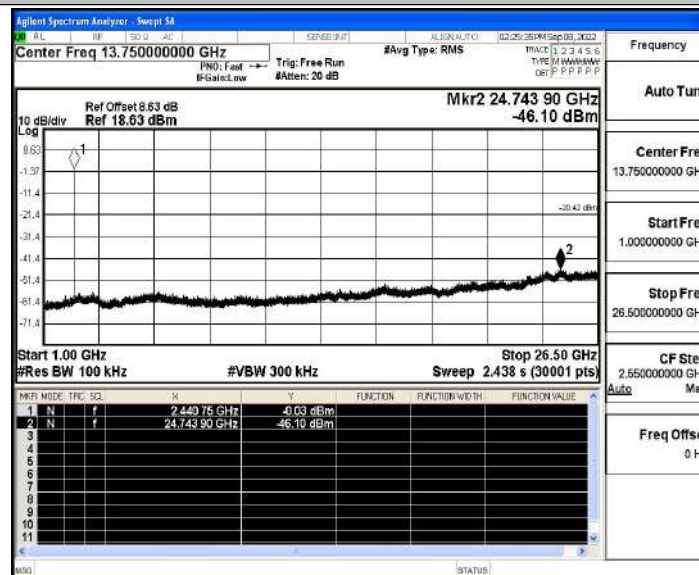


DH5_Ant1_2441_30~1000



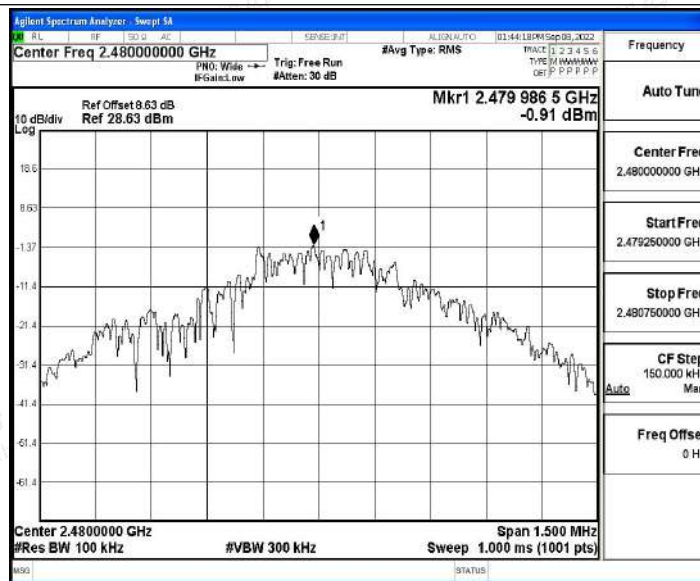


DH5_Ant1_2441_1000~26500

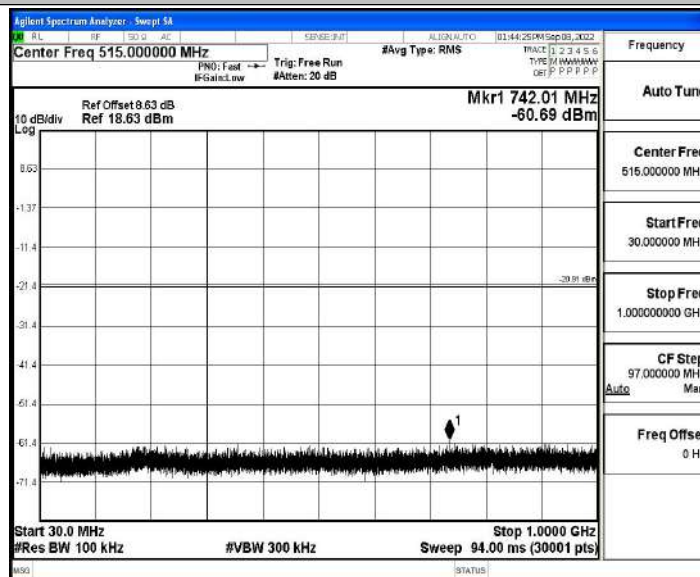


DH5_Ant1_2480_0~Reference





DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

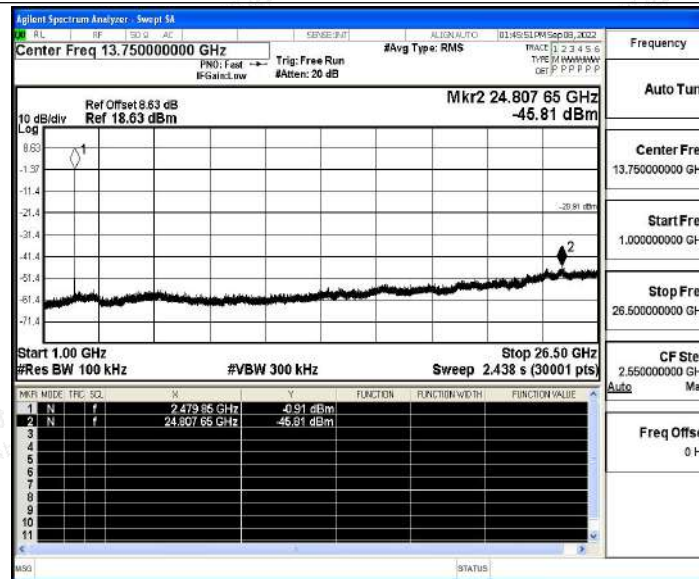


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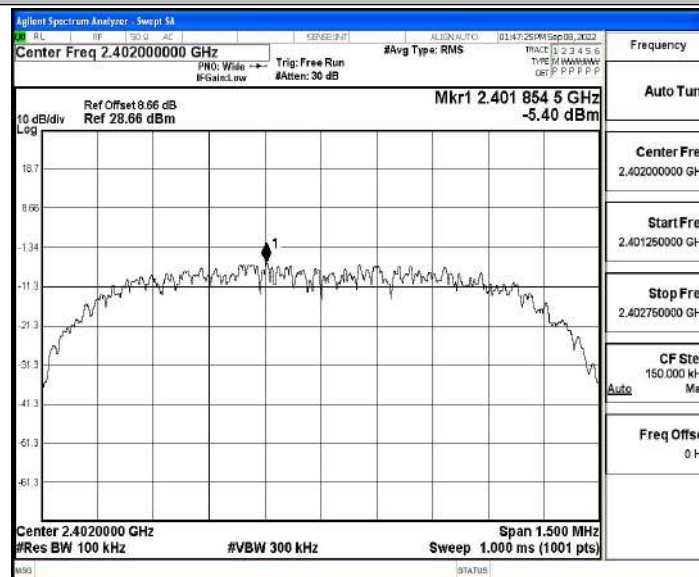
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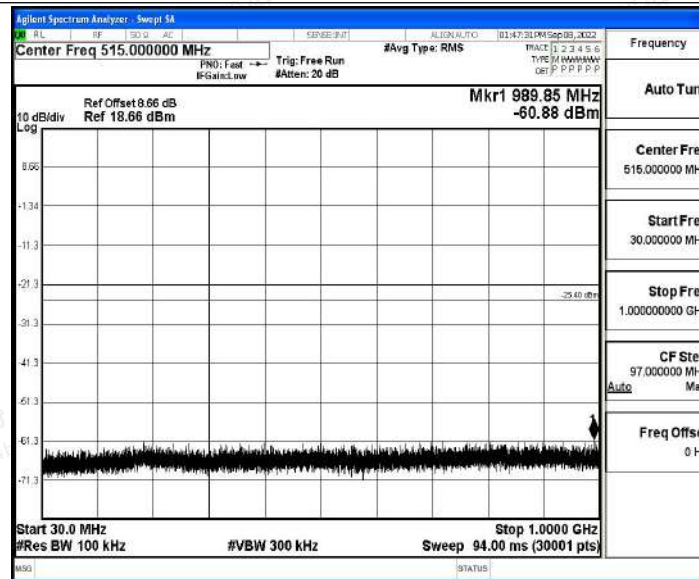


2DH5_Ant1_2402_0~Reference

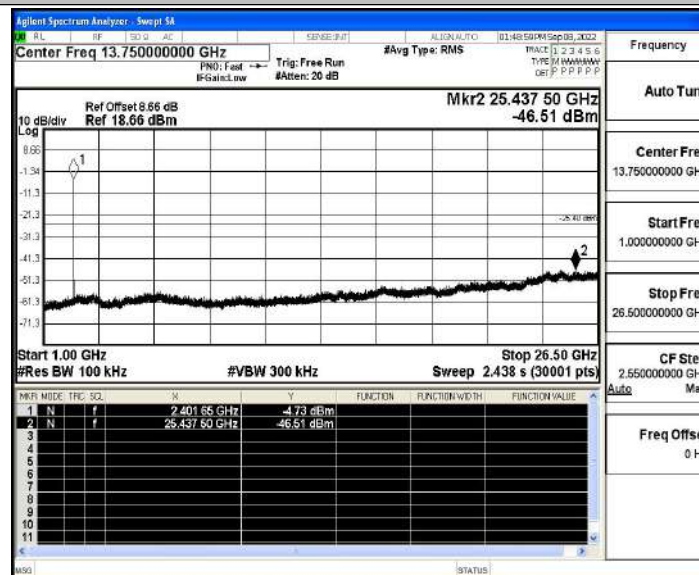


2DH5_Ant1_2402_30~1000



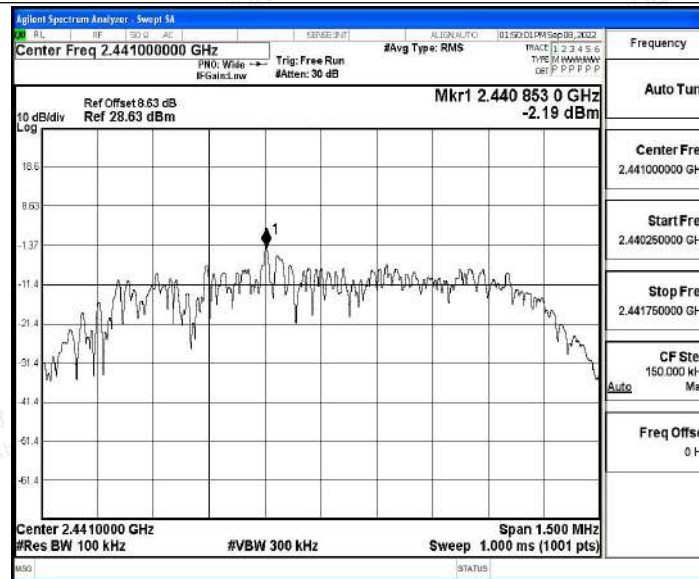


2DH5_Ant1_2402_1000~26500

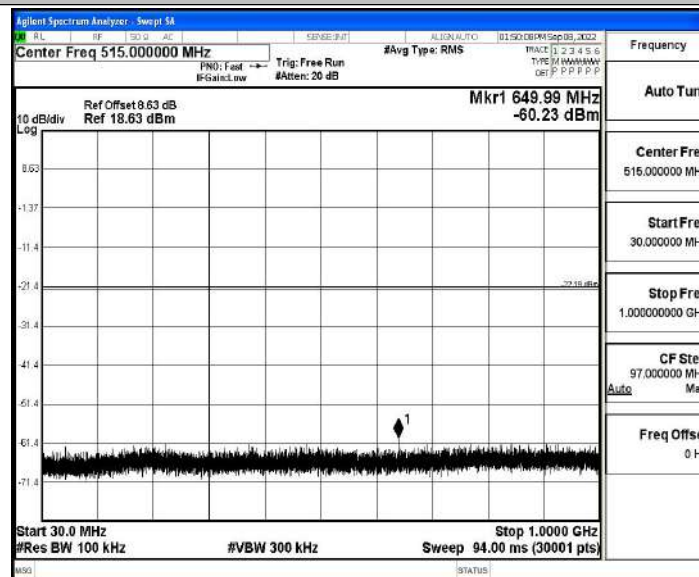


2DH5_Ant1_2441_0~Reference



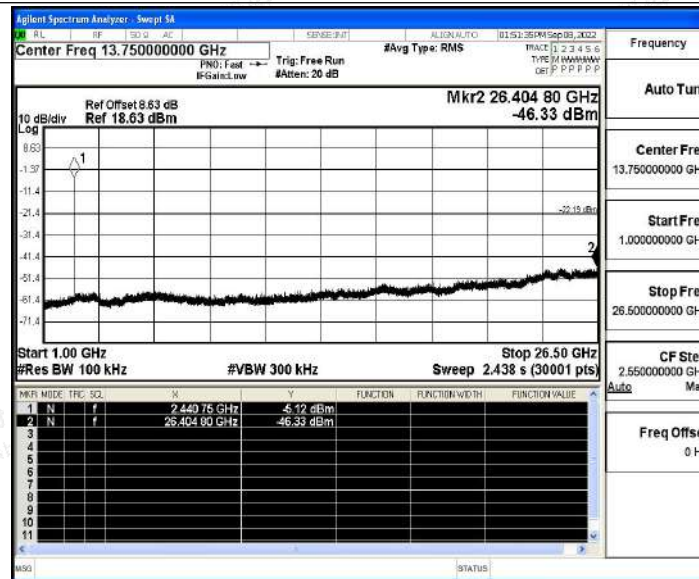


2DH5_Ant1_2441_30~1000

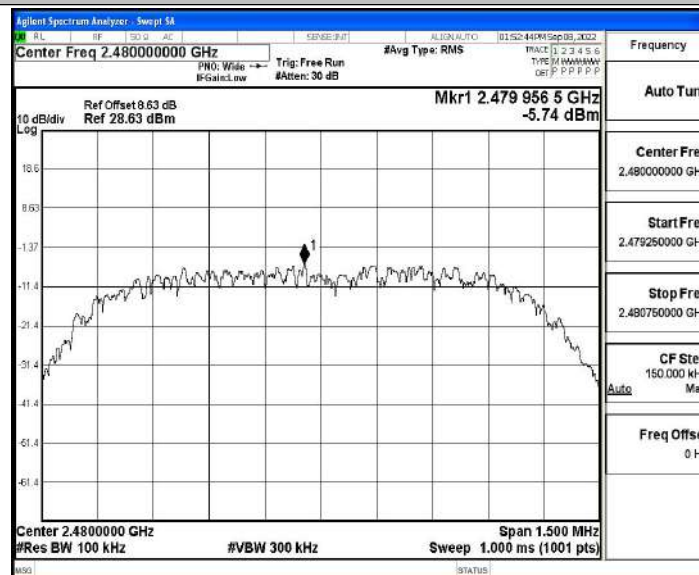


2DH5_Ant1_2441_1000~26500



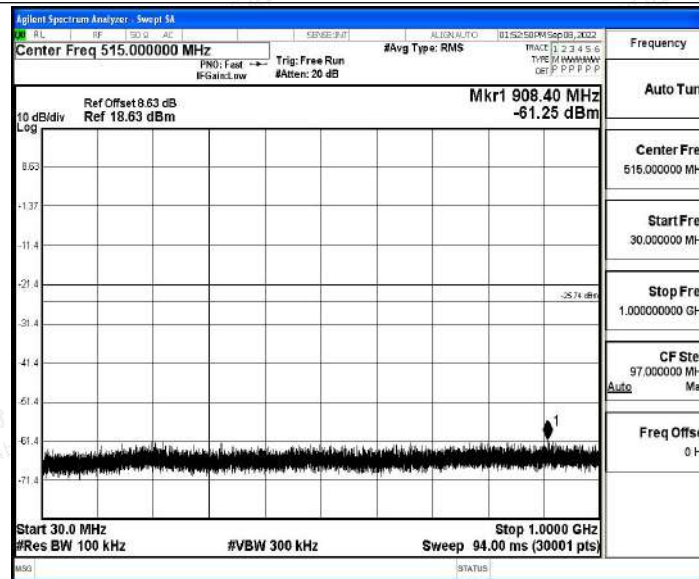


2DH5_Ant1_2480_0~Reference

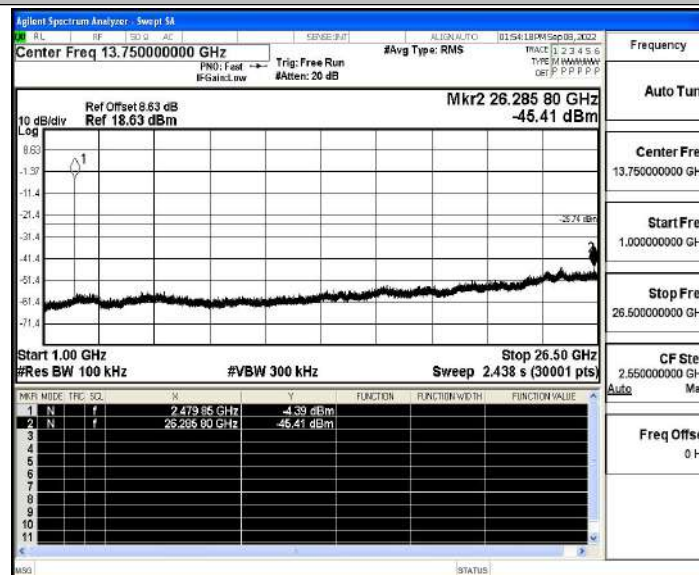


2DH5_Ant1_2480_30~1000



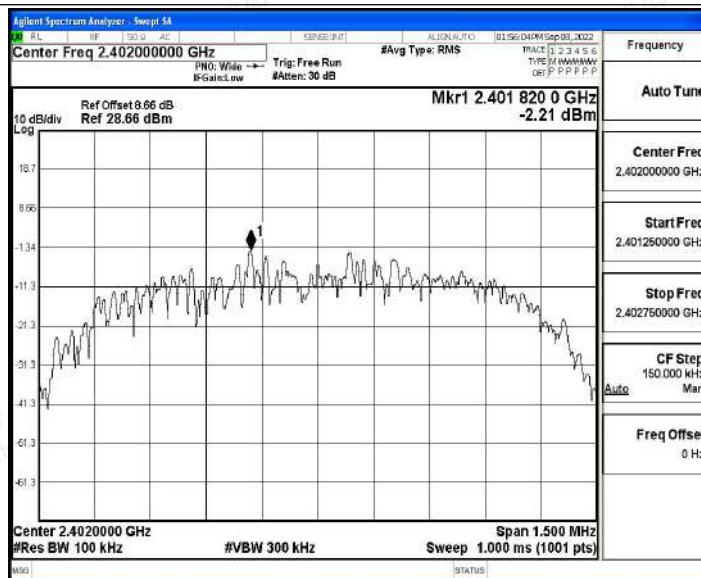


2DH5_Ant1_2480_1000~26500

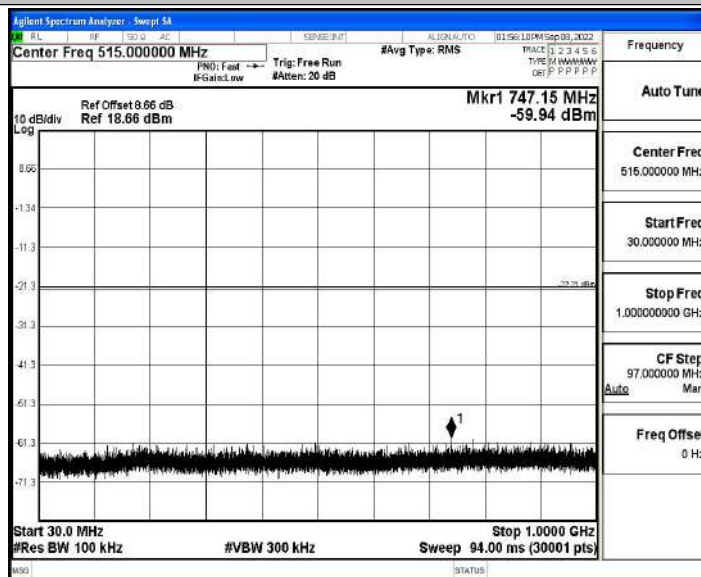


3DH5_Ant1_2402_0~Reference





3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

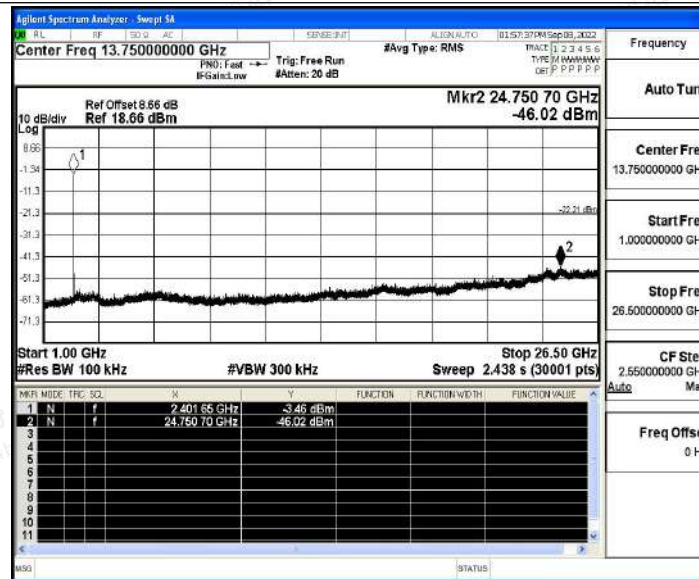


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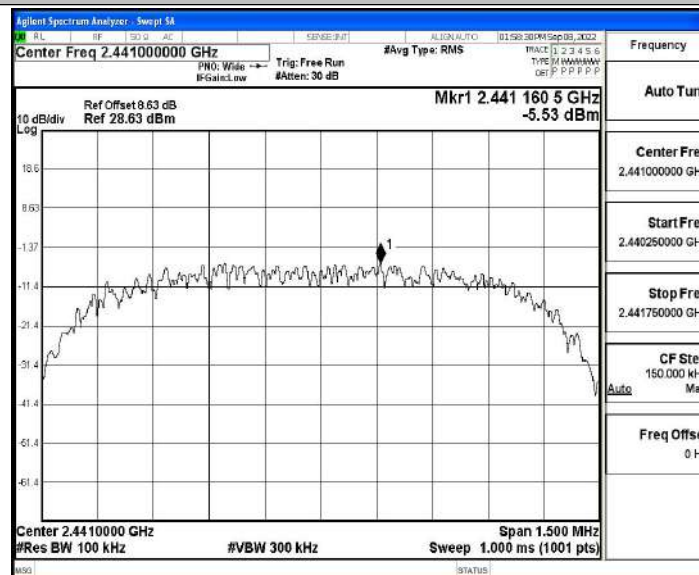
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

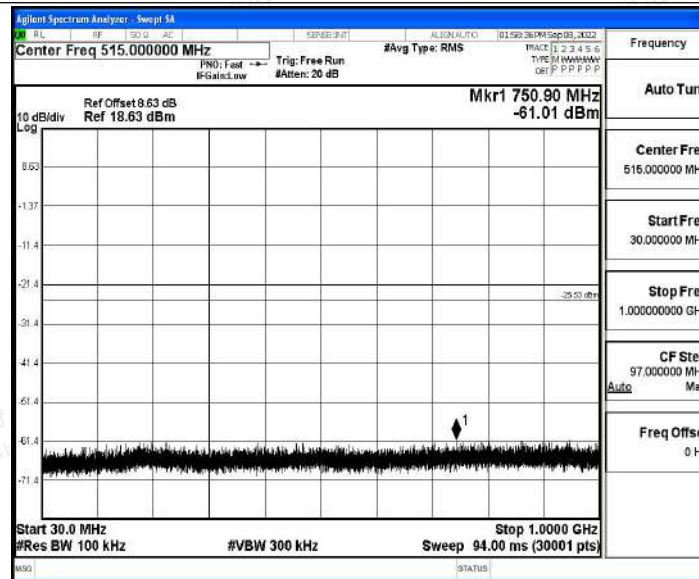


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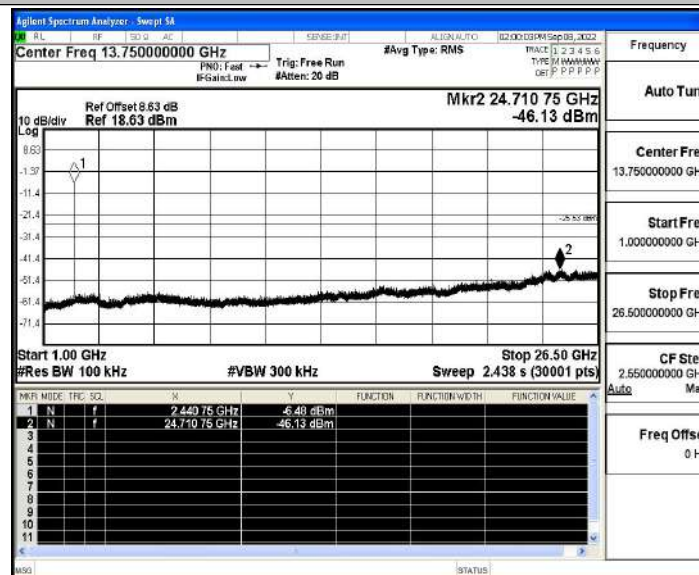
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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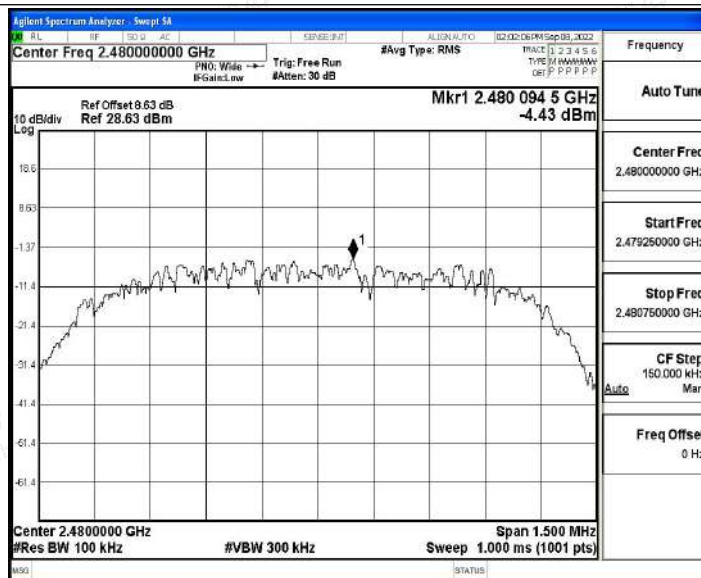


3DH5_Ant1_2441_1000~26500

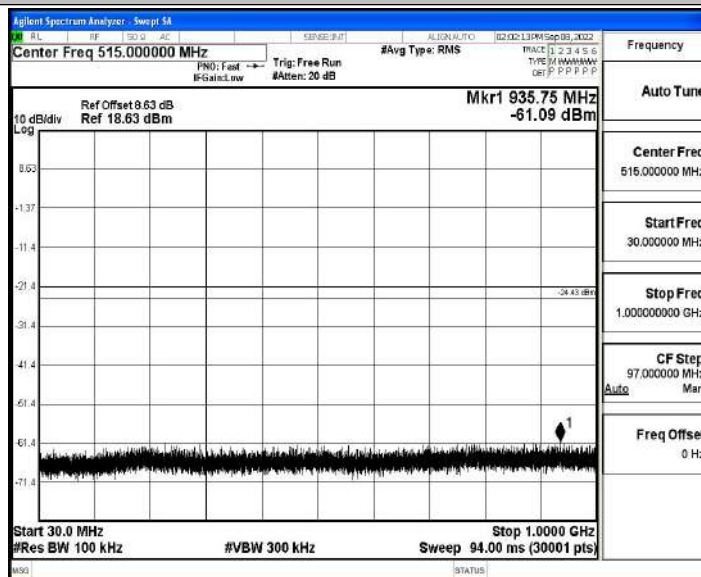


3DH5_Ant1_2480_0~Reference





3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

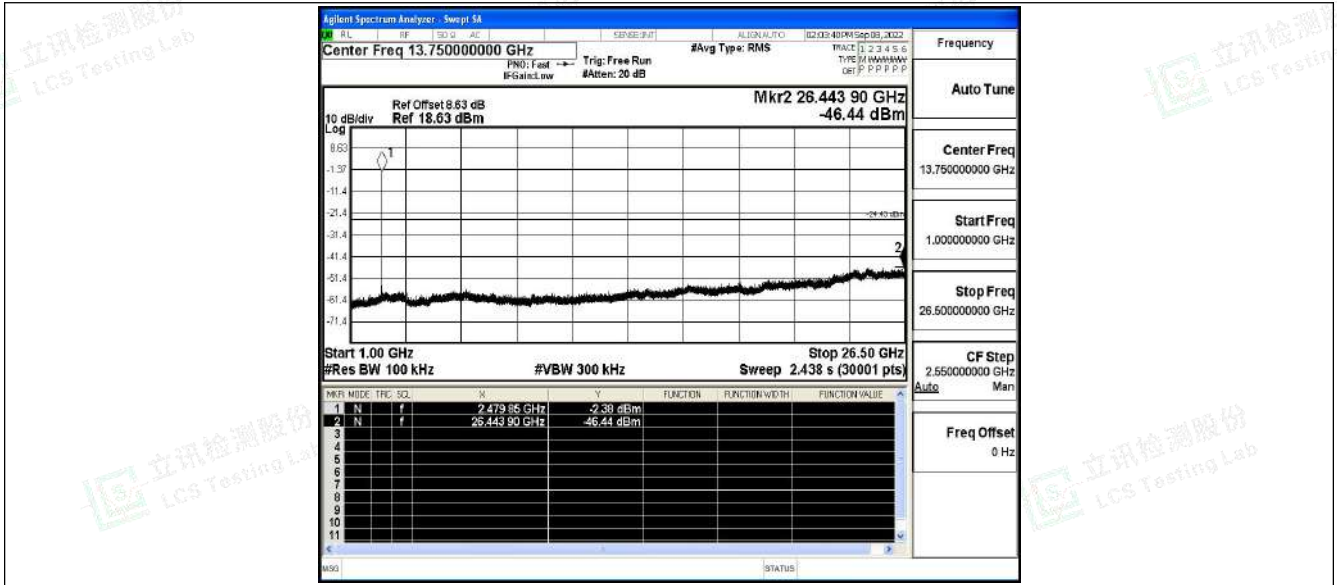


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A.8 Emissions in Restricted Bands

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	-58.25	≤-41.20	36.95	≤54	PASS
				AV	2382.425	-57.63	≤-41.20	37.57	≤54	PASS
				AV	2390.000	-57.81	≤-41.20	37.39	≤54	PASS
				Peak	2310.000	-51.42	≤-21.20	43.78	≤74	PASS
				Peak	2367.935	-48.17	≤-21.20	47.03	≤74	PASS
				Peak	2390.000	-51.11	≤-21.20	44.09	≤74	PASS
		High	2480	AV	2483.500	-55.32	≤-41.20	39.88	≤54	PASS
				AV	2483.520	-55.32	≤-41.20	39.88	≤54	PASS
				AV	2500.000	-57.34	≤-41.20	37.86	≤54	PASS
				Peak	2483.500	-51.16	≤-21.20	44.04	≤74	PASS
				Peak	2487.920	-49.01	≤-21.20	46.19	≤74	PASS
				Peak	2500.000	-52.45	≤-21.20	42.75	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2388.935	-57.68	≤-41.20	37.52	≤54	PASS
				AV	2390.000	-57.82	≤-41.20	37.38	≤54	PASS
				Peak	2310.000	-52.85	≤-21.20	42.35	≤74	PASS
				Peak	2380.220	-48	≤-21.20	47.20	≤74	PASS
				Peak	2390.000	-53.72	≤-21.20	41.48	≤74	PASS
		High	2480	AV	2483.500	-55.45	≤-41.20	39.75	≤54	PASS
				AV	2483.520	-55.45	≤-41.20	39.75	≤54	PASS
				AV	2500.000	-57.23	≤-41.20	37.97	≤54	PASS
				Peak	2483.500	-51.8	≤-21.20	43.40	≤74	PASS
				Peak	2494.000	-48.26	≤-21.20	46.94	≤74	PASS
				Peak	2500.000	-52.88	≤-21.20	42.32	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.2	≤-41.20	37.00	≤54	PASS
				AV	2386.310	-57.55	≤-41.20	37.65	≤54	PASS
				AV	2390.000	-57.67	≤-41.20	37.53	≤54	PASS
				Peak	2310.000	-52.85	≤-21.20	42.35	≤74	PASS
				Peak	2355.755	-49.36	≤-21.20	45.84	≤74	PASS
				Peak	2390.000	-52.56	≤-21.20	42.64	≤74	PASS
		High	2480	AV	2483.500	-55.19	≤-41.20	40.01	≤54	PASS
				AV	2483.520	-55.19	≤-41.20	40.01	≤54	PASS
				AV	2500.000	-57.21	≤-41.20	37.99	≤54	PASS
				Peak	2483.500	-51.5	≤-21.20	43.70	≤74	PASS
				Peak	2494.640	-48.7	≤-21.20	46.50	≤74	PASS



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				Peak	2500.000	-52.76	≤-21.20	42.44	≤74	PASS
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Note:

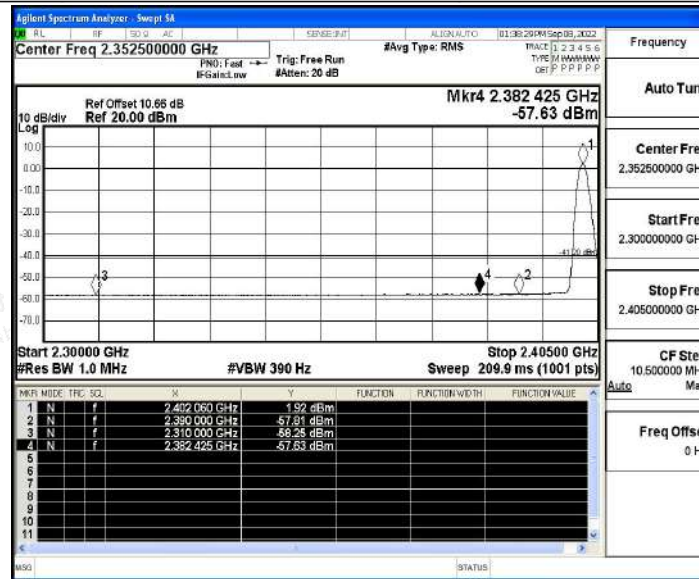
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



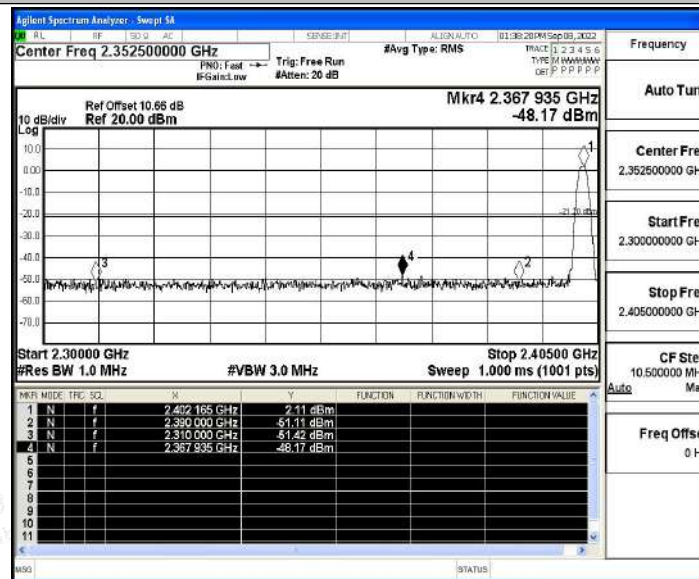


Test Graphs

DH5_Ant1_Low_2402_AV

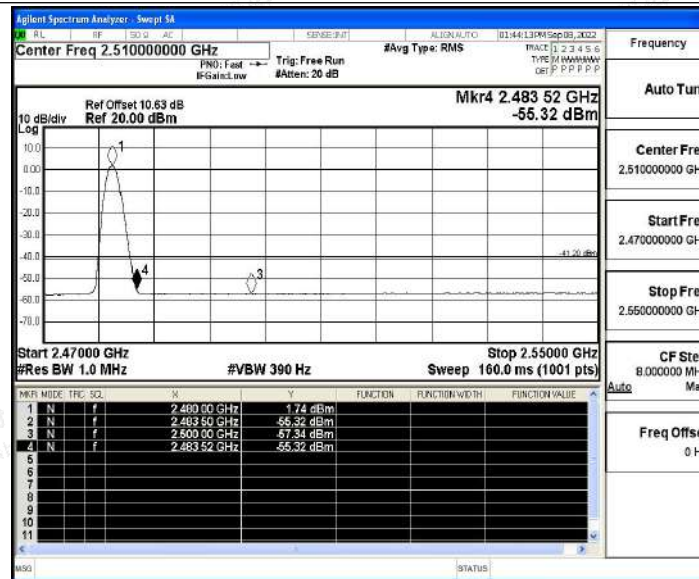


DH5_Ant1_Low_2402_Peak

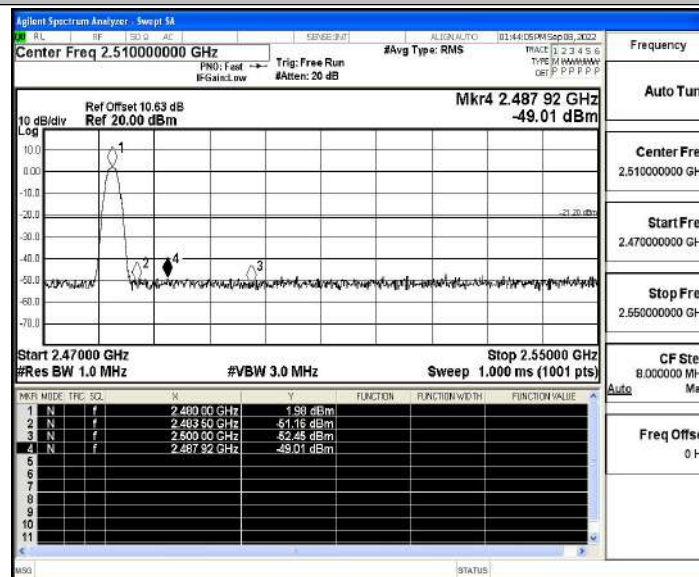


DH5_Ant1_High_2480_AV



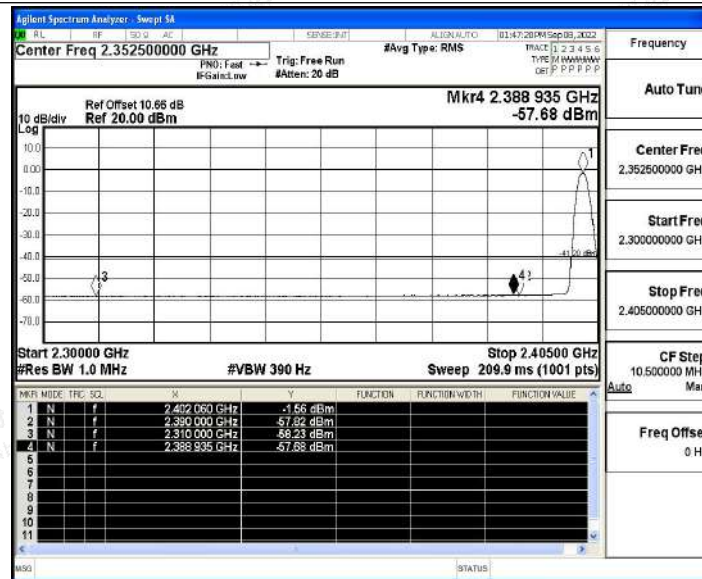


DH5_Ant1_High_2480_Peak

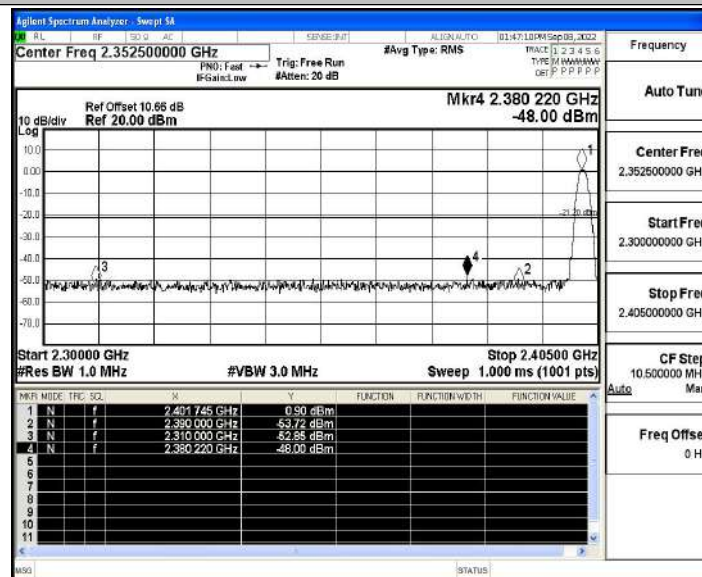


2DH5_Ant1_Low_2402_AV



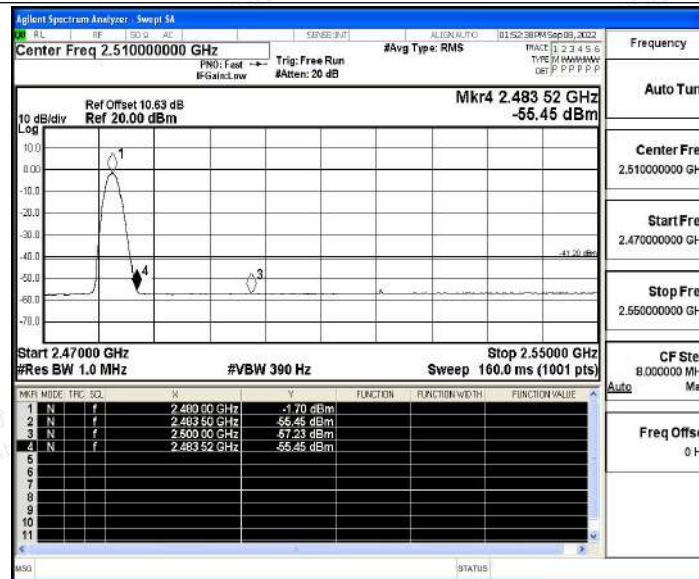


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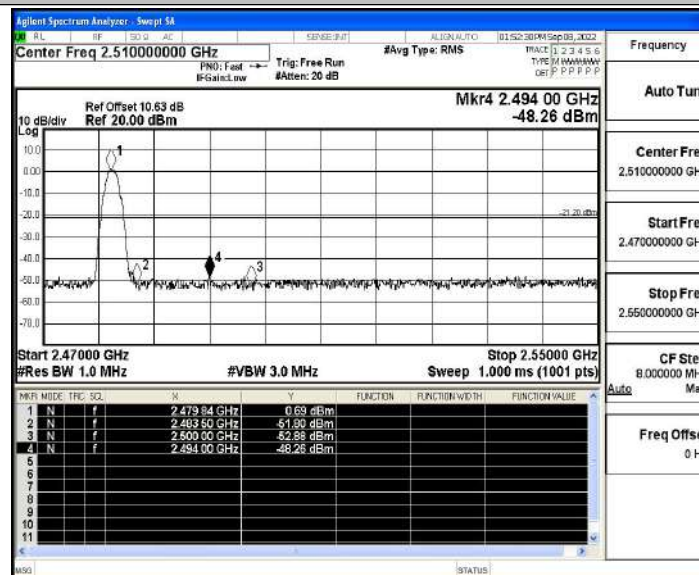


2DH5_Ant1_High_2480_AV



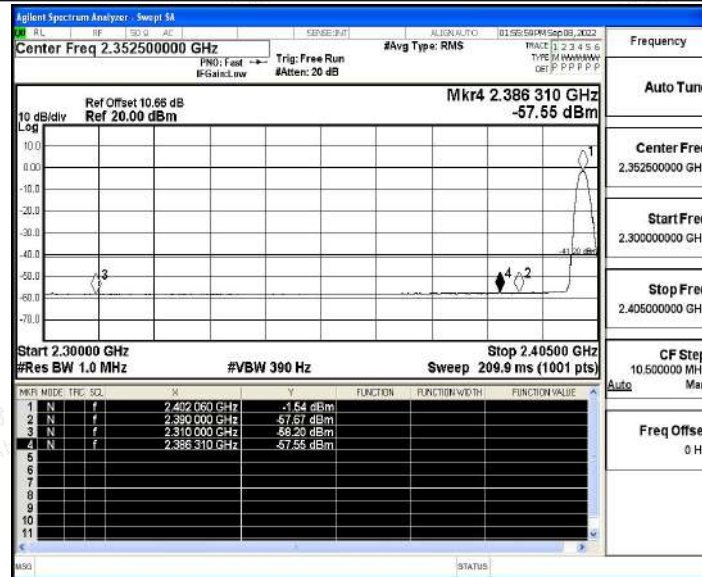


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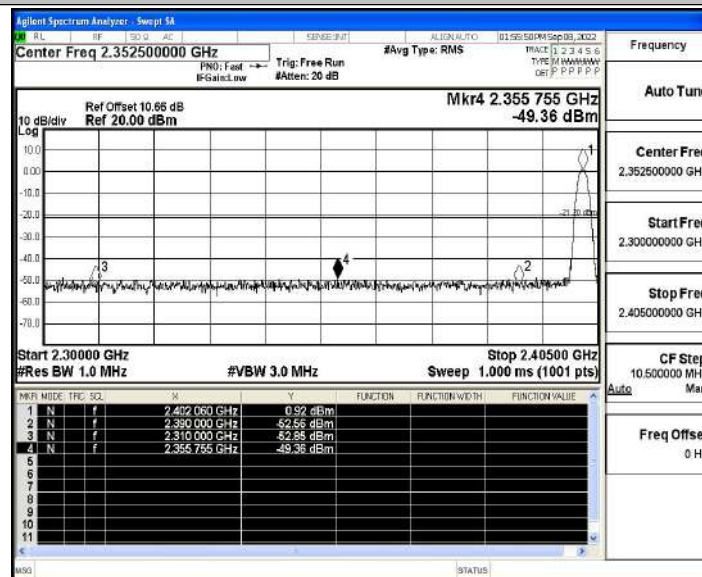


3DH5_Ant1_Low_2402_AV



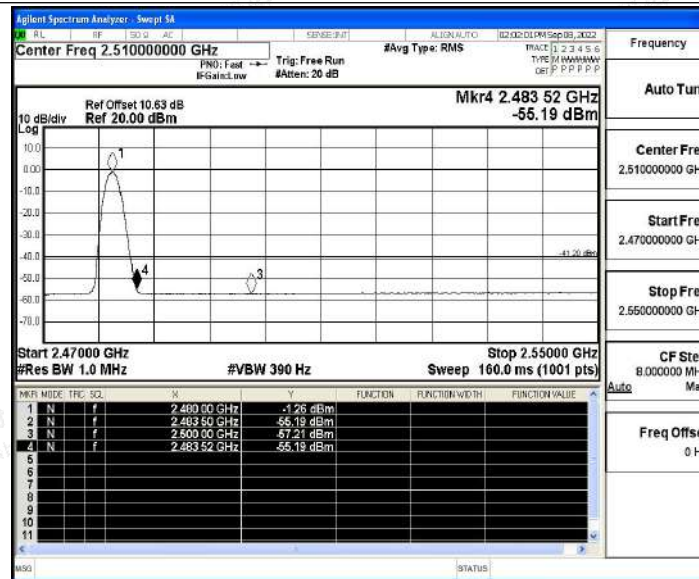


3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak

