



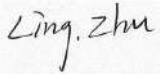
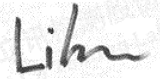
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 2G Feature phone

Test Model: RAYO R2

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

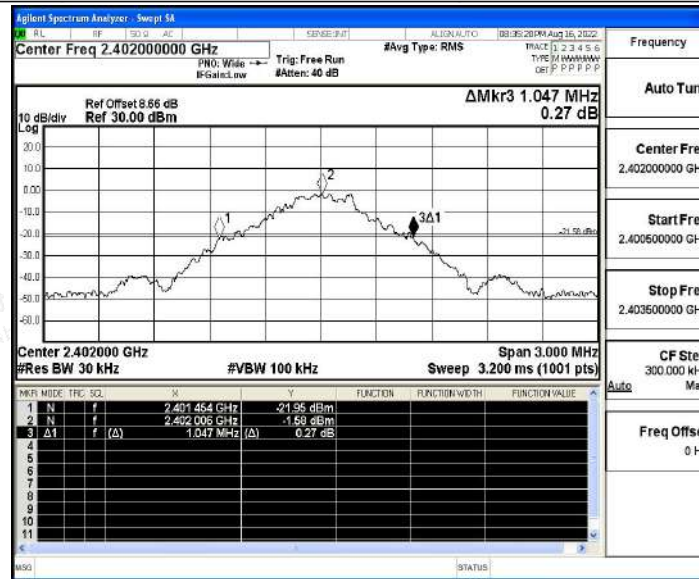
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.047	2401.454	2402.501	---
		2441	1.044	2440.457	2441.501	---
		2480	1.047	2479.451	2480.498	---
2DH5	Ant1	2402	1.290	2401.352	2402.642	---
		2441	1.359	2440.310	2441.669	---
		2480	1.317	2479.331	2480.648	---
3DH5	Ant1	2402	1.305	2401.340	2402.645	---
		2441	1.290	2440.343	2441.633	---
		2480	1.290	2479.346	2480.636	---



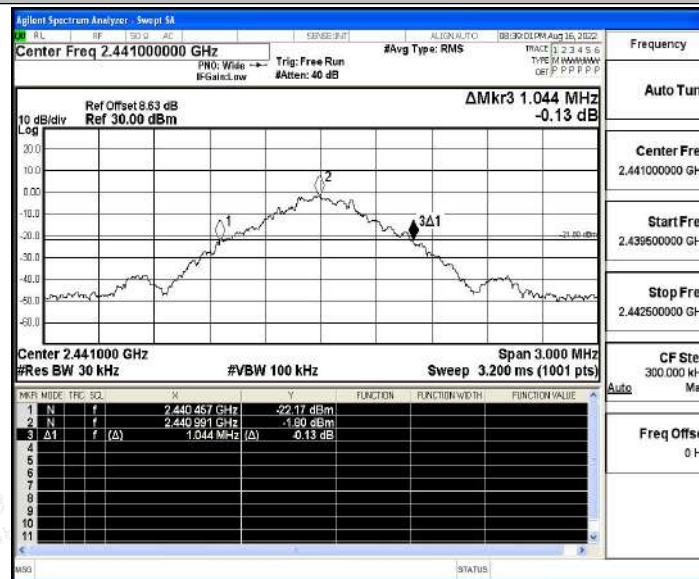


Test Graphs

DH5_Ant1_2402

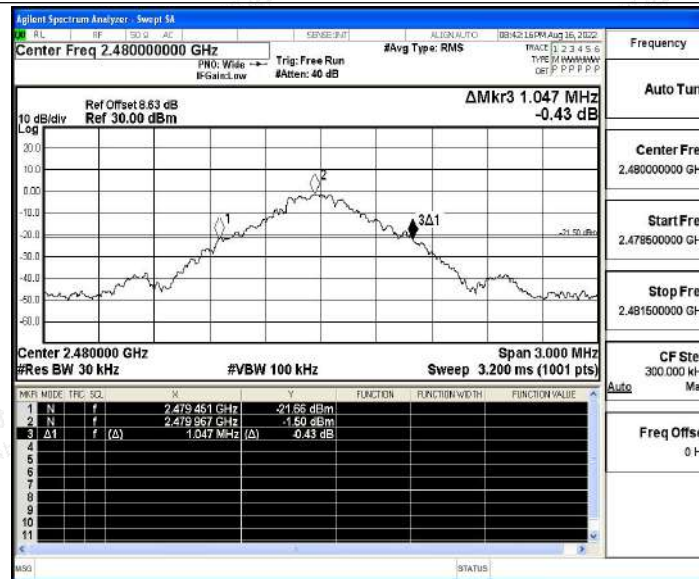


DH5_Ant1_2441

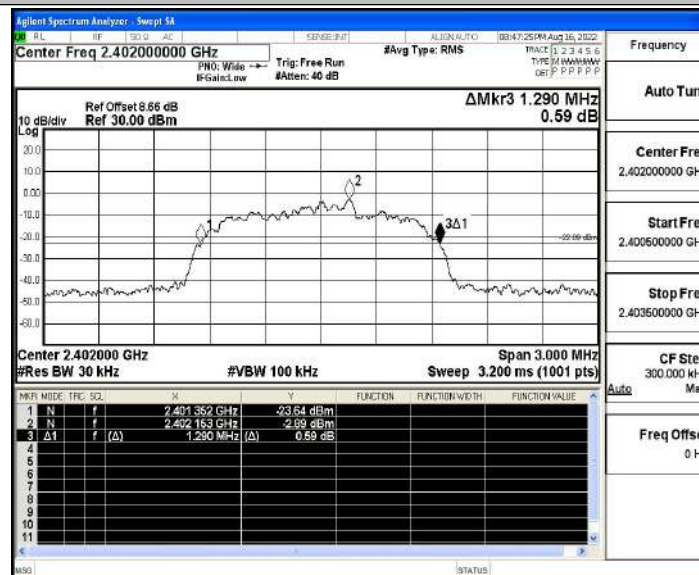


DH5_Ant1_2480



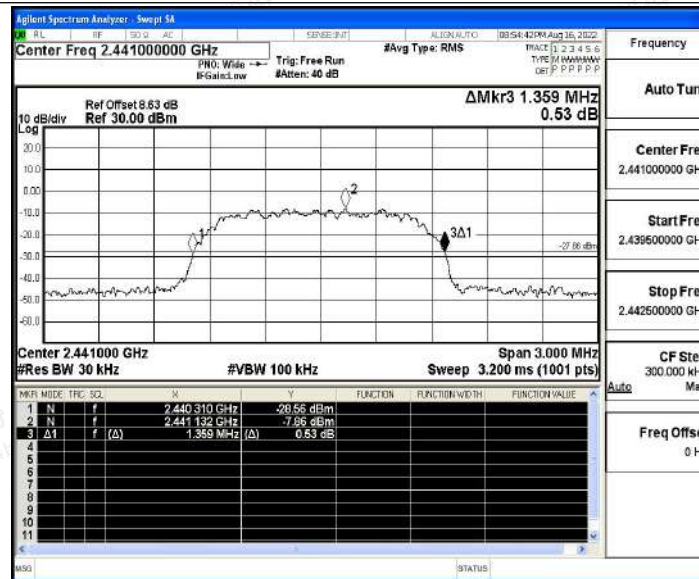


2DH5_Ant1_2402

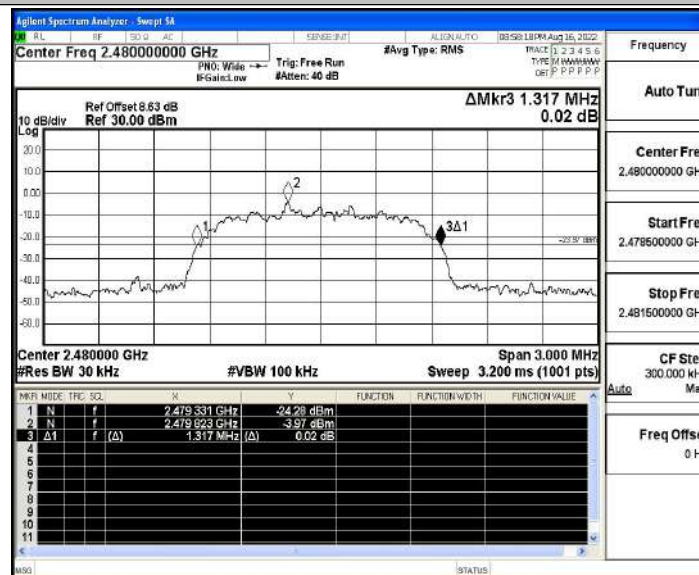


2DH5_Ant1_2441



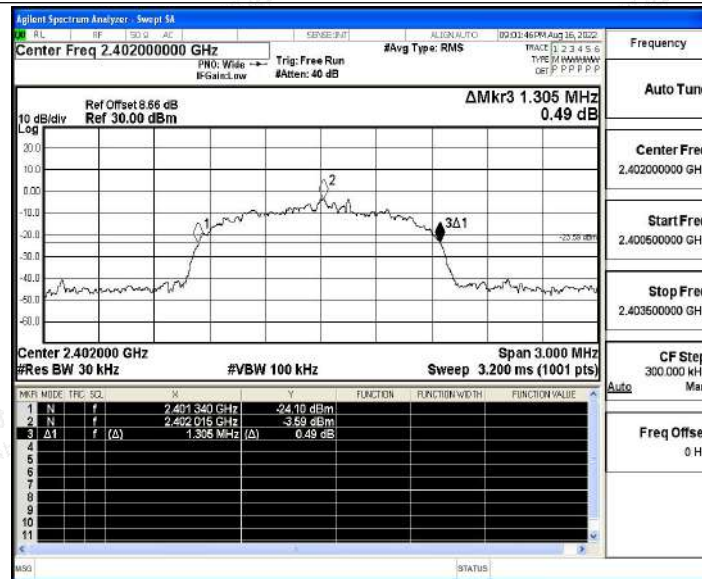


2DH5_Ant1_2480

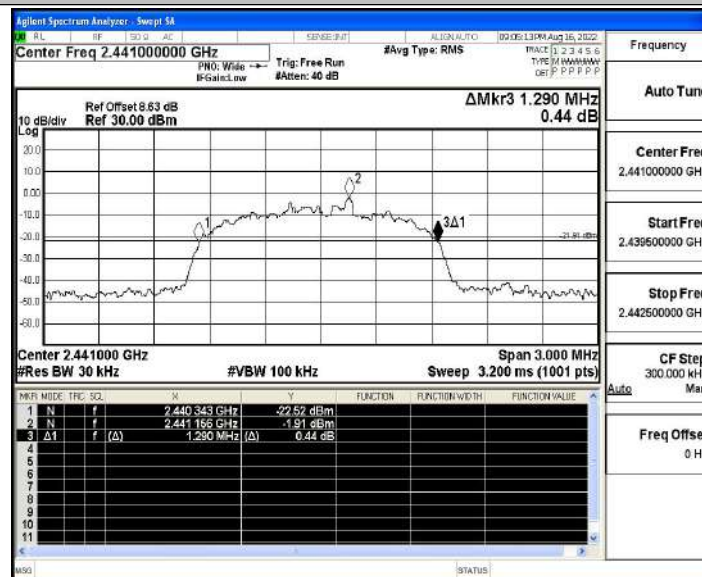


3DH5_Ant1_2402



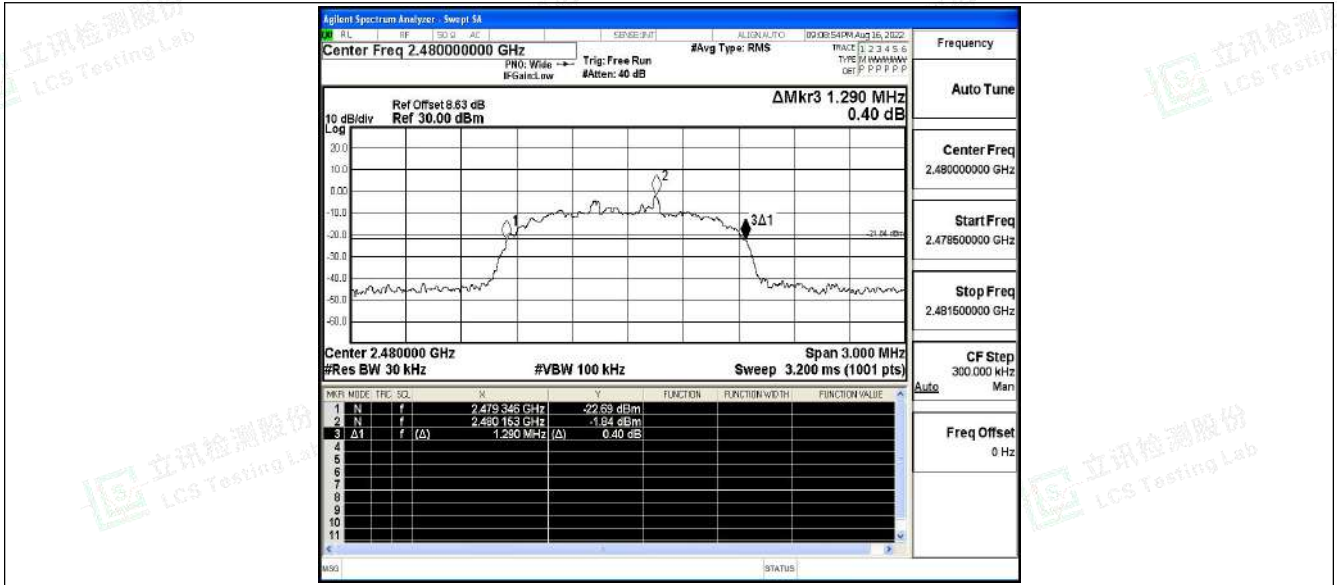


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

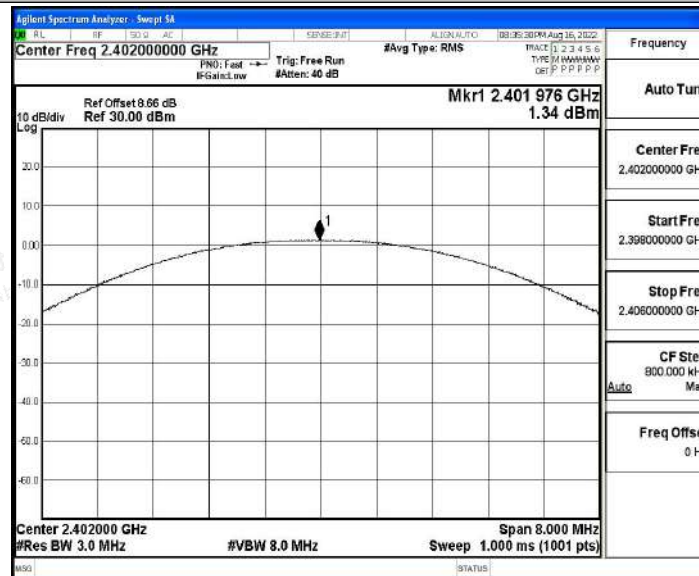
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.34	≤20.97	PASS
		2441	1.68	≤20.97	PASS
		2480	1.62	≤20.97	PASS
2DH5	Ant1	2402	1.42	≤20.97	PASS
		2441	1.47	≤20.97	PASS
		2480	1.35	≤20.97	PASS
3DH5	Ant1	2402	1.62	≤20.97	PASS
		2441	1.63	≤20.97	PASS
		2480	1.6	≤20.97	PASS



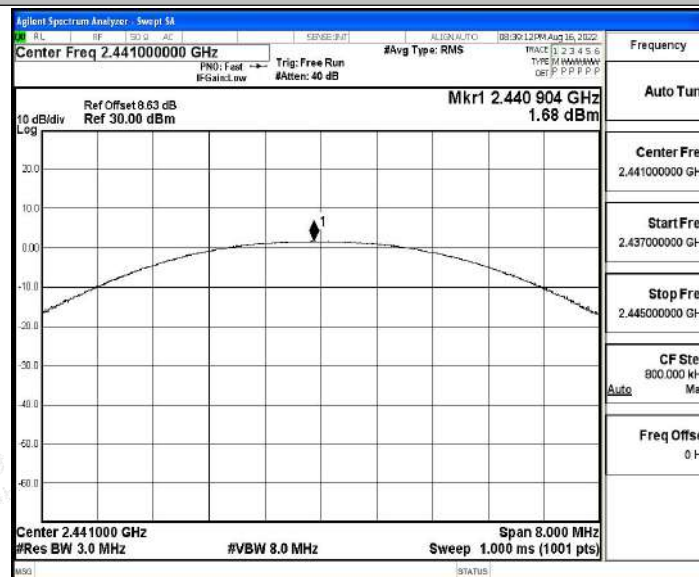


Test Graphs

DH5_Ant1_2402

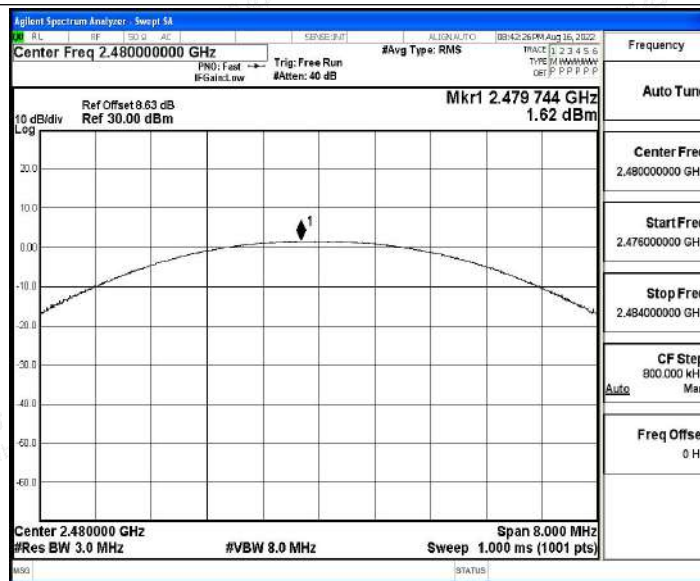


DH5_Ant1_2441

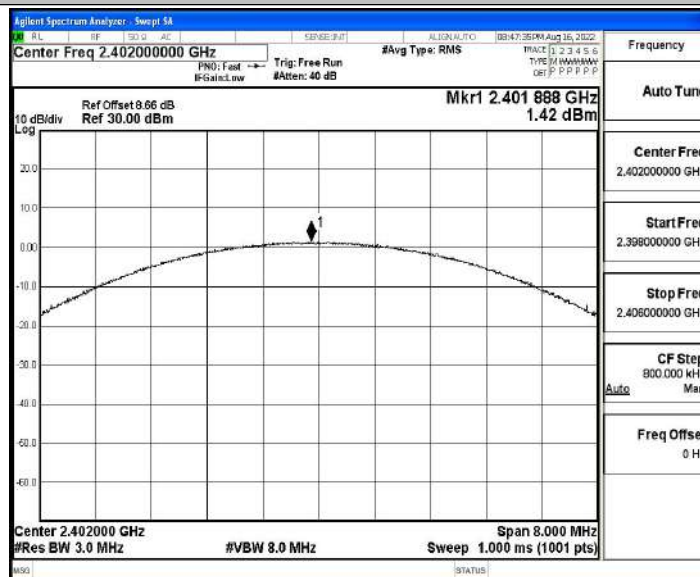


DH5_Ant1_2480



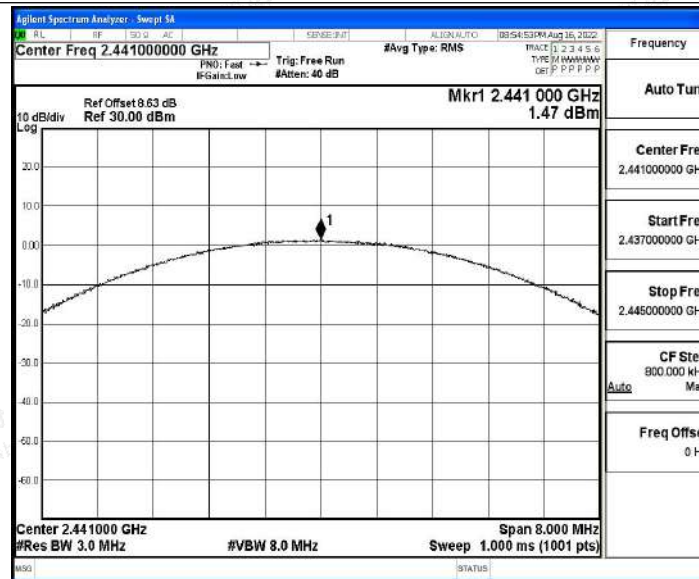


2DH5_Ant1_2402

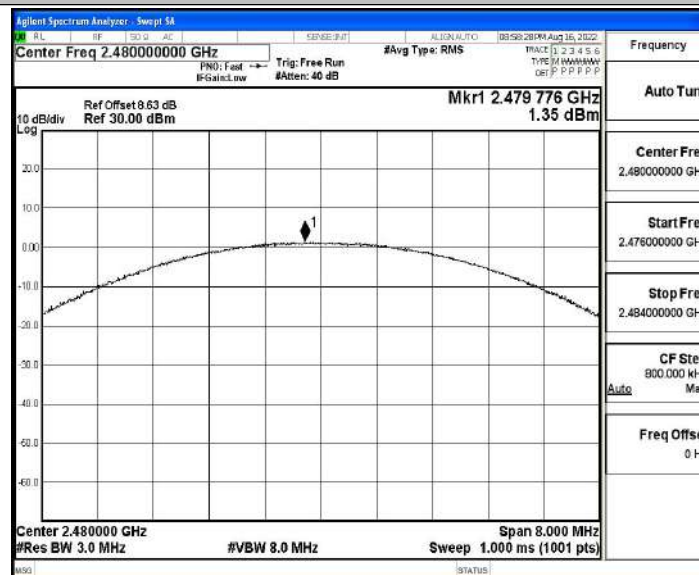


2DH5_Ant1_2441



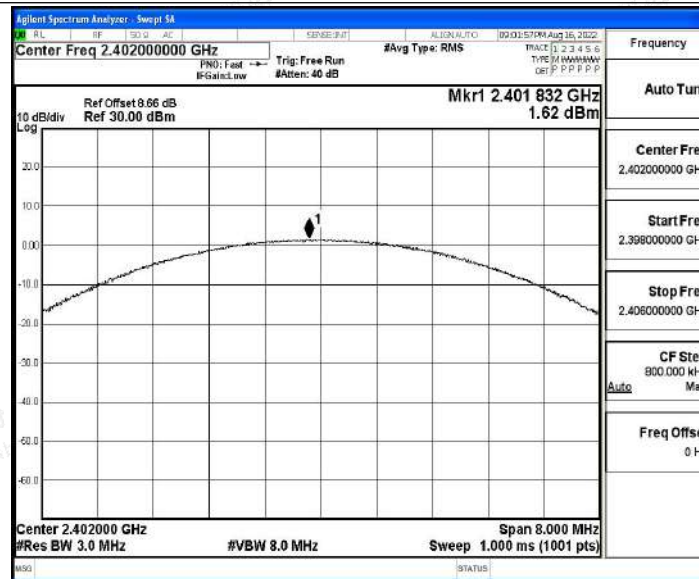


2DH5_Ant1_2480

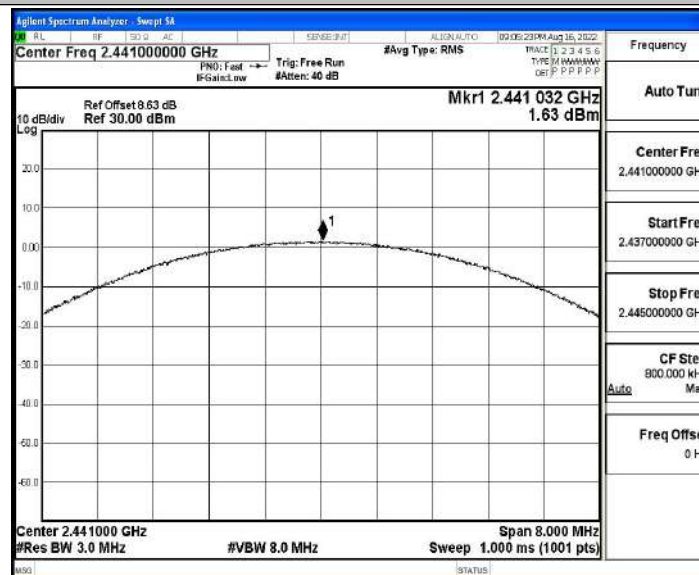


3DH5_Ant1_2402



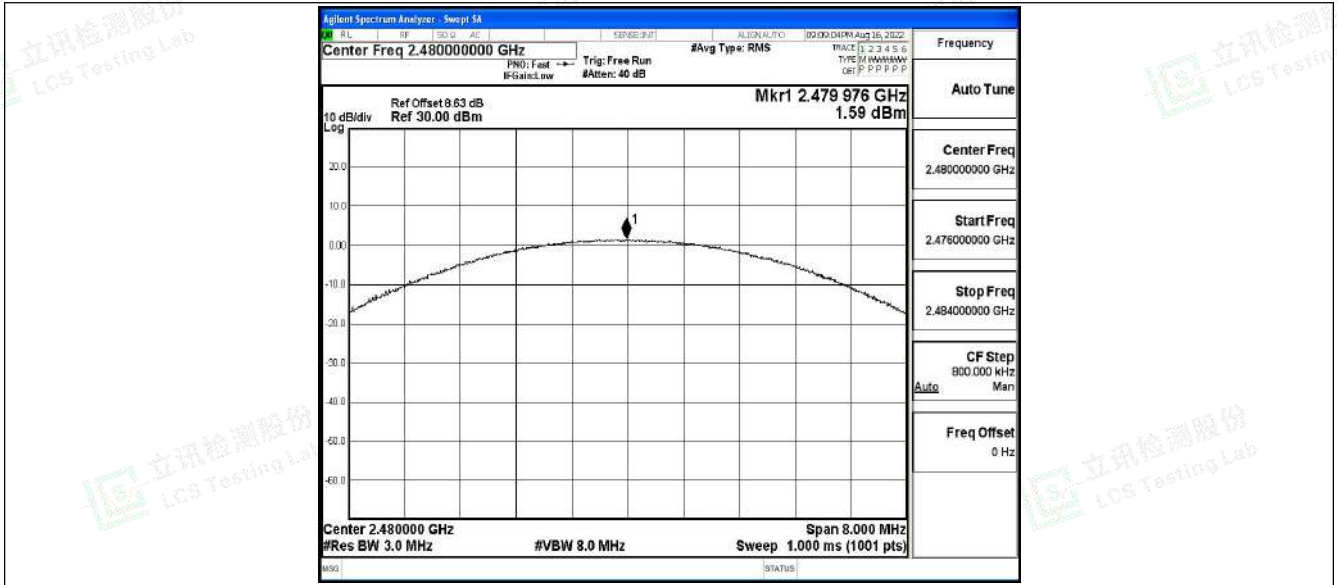


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

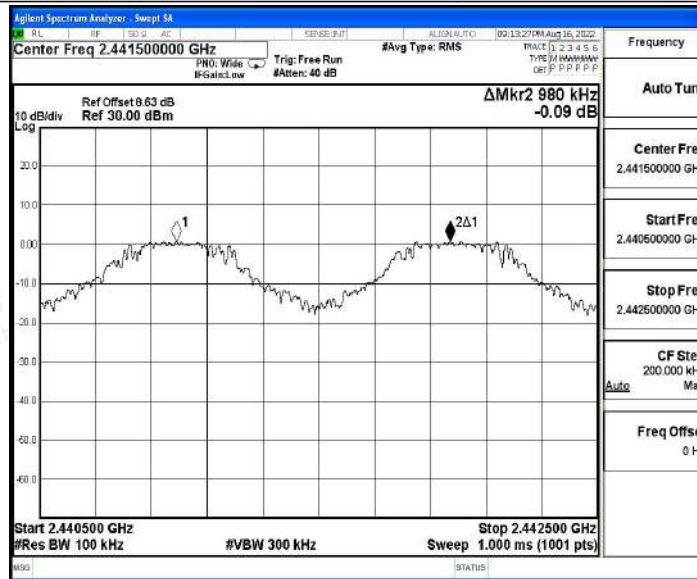
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	≥0.698	PASS
2DH5	Ant1	Hop	1.118	≥0.906	PASS
3DH5	Ant1	Hop	0.982	≥0.870	PASS



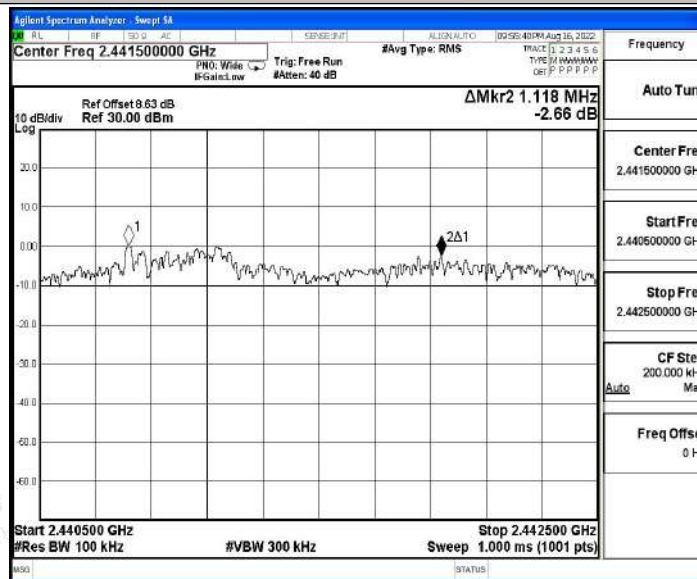


Test Graphs

DH5_Ant1_Hop

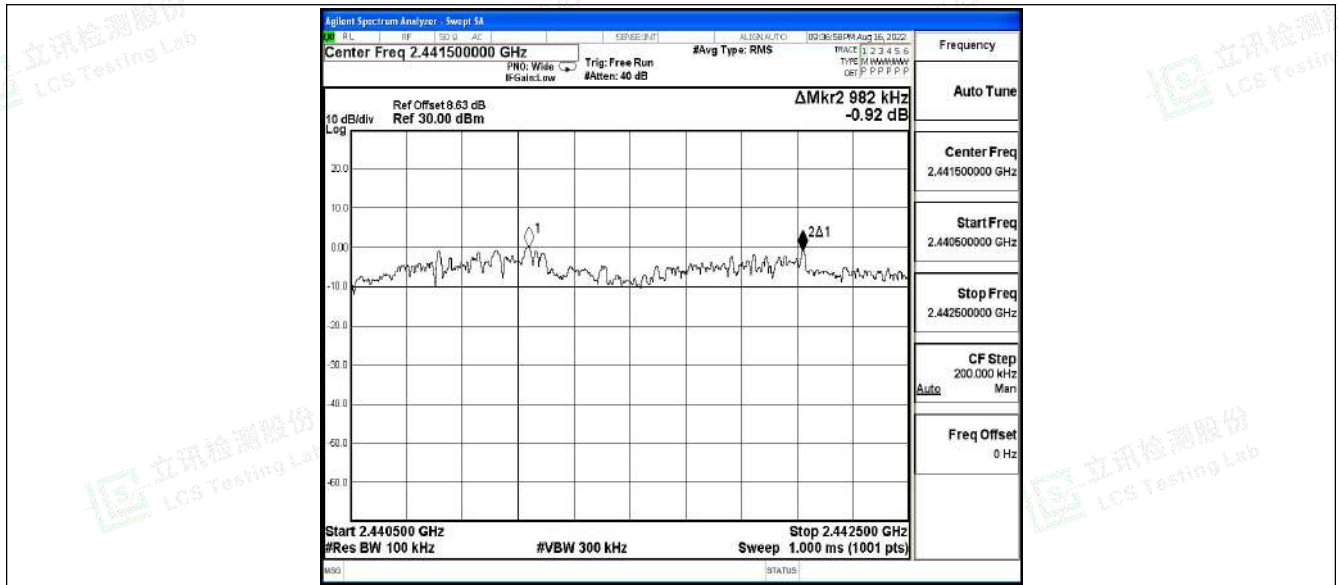


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

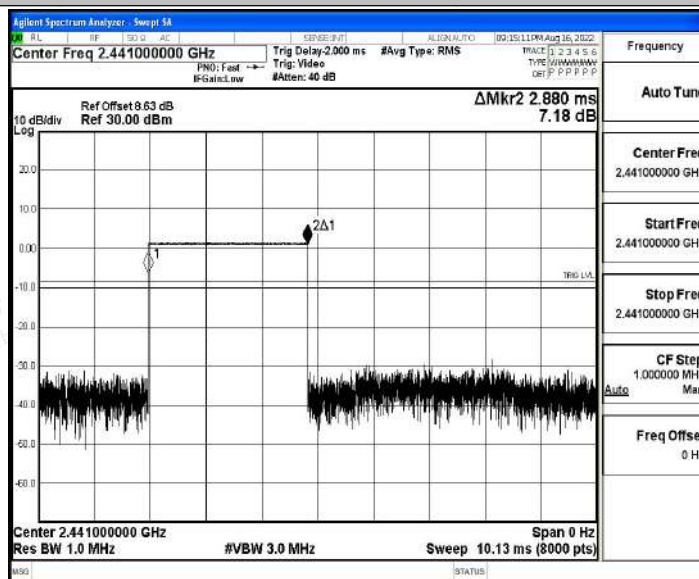
Test Result

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

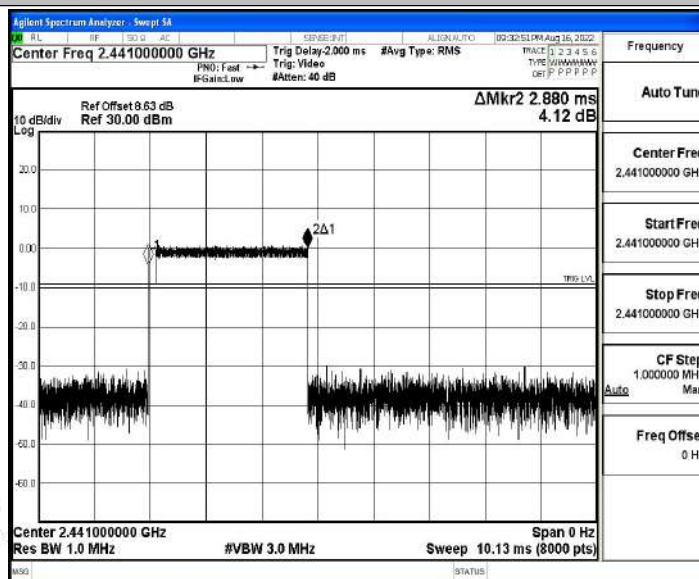


Test Graphs

DH5 Ant1 Hop



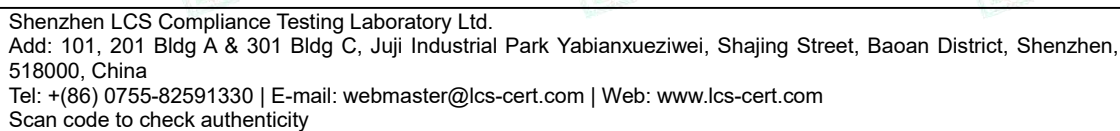
2DH5 Ant1 Hop



3DH5 Ant1 Hop



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A.5 Number of hopping channels

Test Result

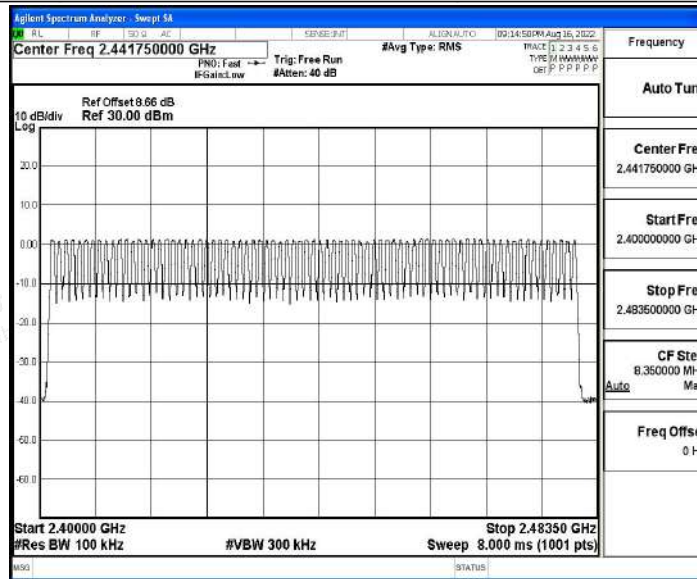
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



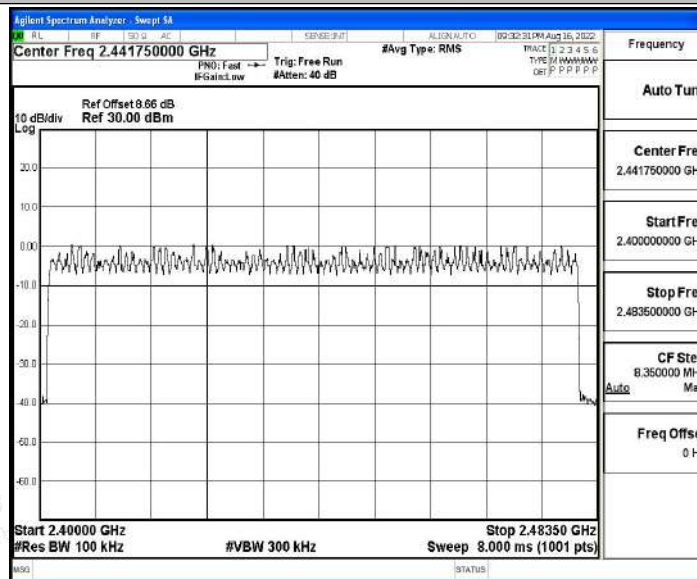


Test Graphs

DH5_Ant1_Hop

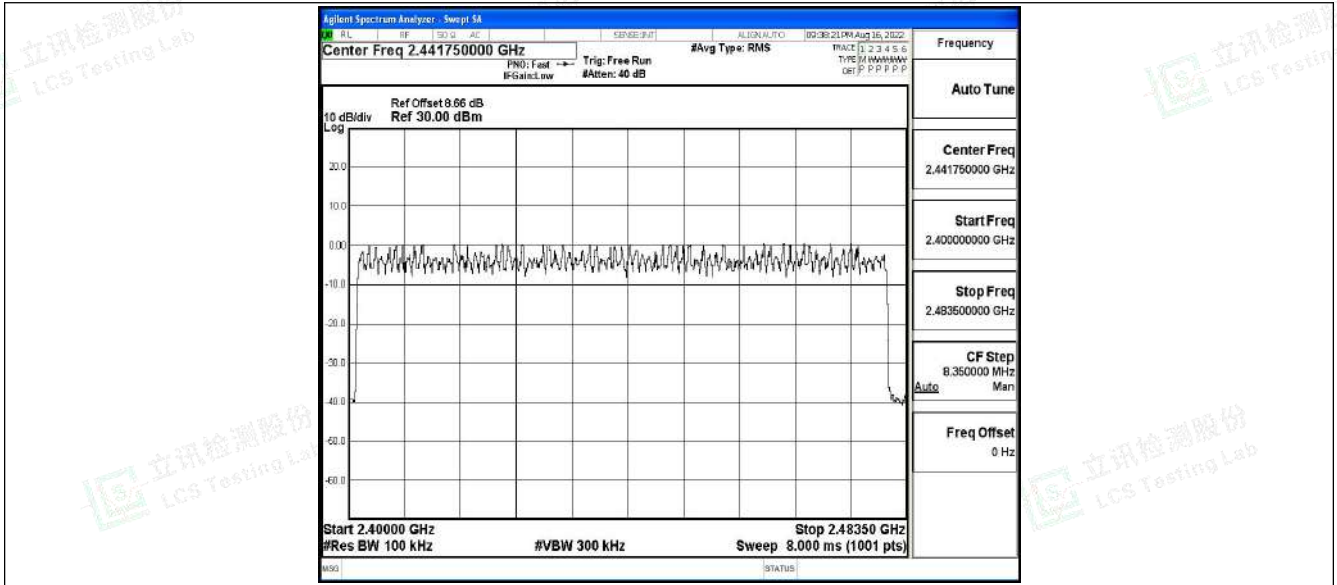


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

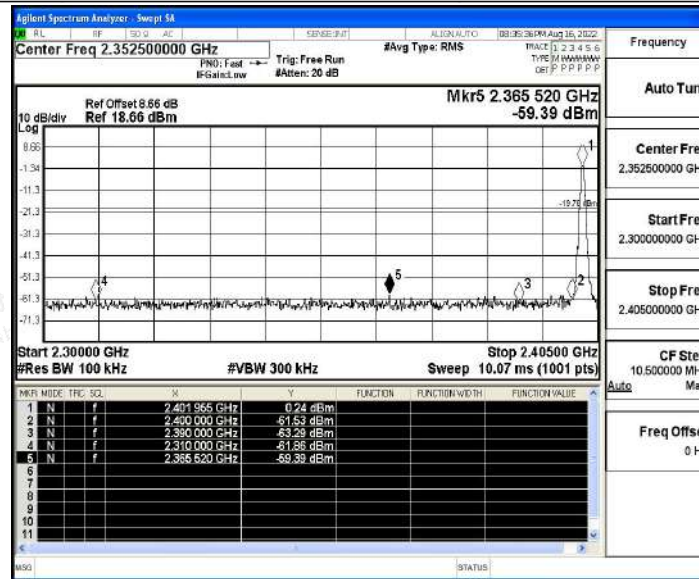
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.24	-59.39	≤-19.76	PASS
		High	2480	0.46	-59.05	≤-19.54	PASS
		Low	Hop_2402	0.83	-59.16	≤-19.17	PASS
		High	Hop_2480	0.81	-56.68	≤-19.19	PASS
2DH5	Ant1	Low	2402	-3.68	-57.6	≤-23.68	PASS
		High	2480	-3.44	-58.68	≤-23.44	PASS
		Low	Hop_2402	-0.98	-58.54	≤-20.98	PASS
		High	Hop_2480	0.24	-57.67	≤-19.76	PASS
3DH5	Ant1	Low	2402	-3.32	-57.51	≤-23.32	PASS
		High	2480	-1.09	-58.88	≤-21.09	PASS
		Low	Hop_2402	-0.75	-59.23	≤-20.75	PASS
		High	Hop_2480	0.09	-57.74	≤-19.91	PASS



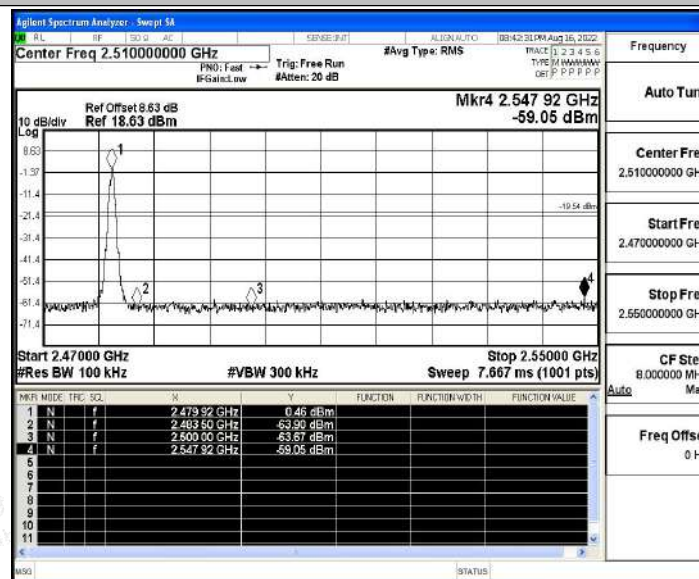


Test Graphs

DH5_Ant1_Low_2402

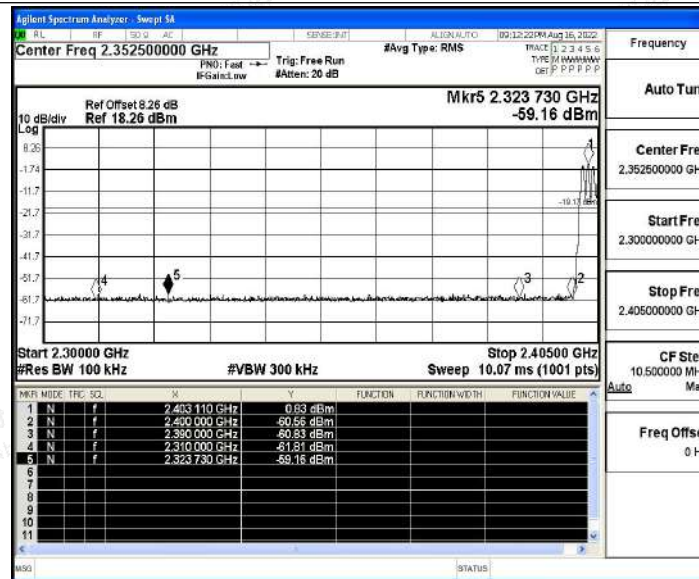


DH5_Ant1_High_2480

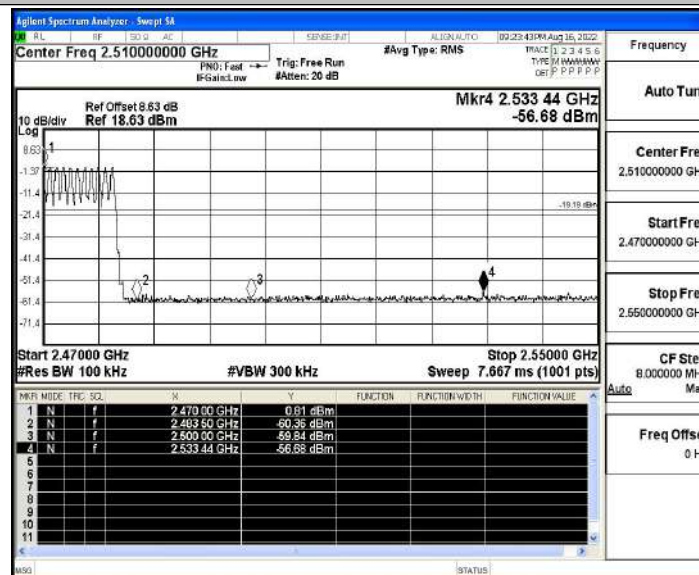


DH5_Ant1_Low_Hop_2402



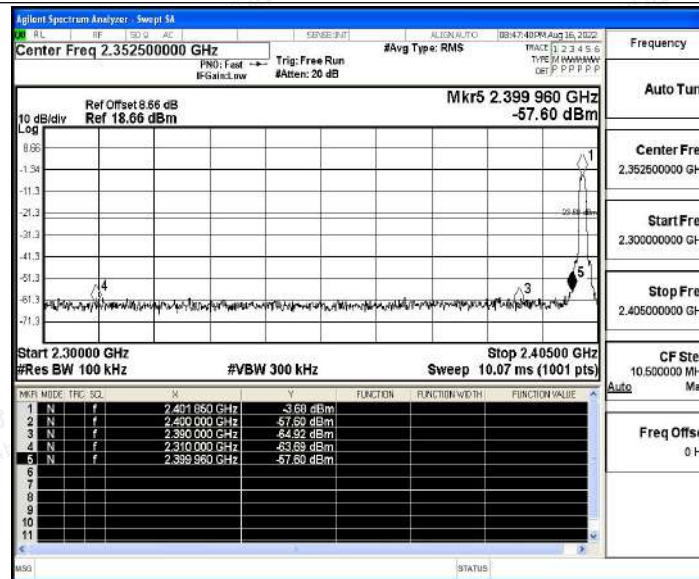


DH5_Ant1_High_Hop_2480

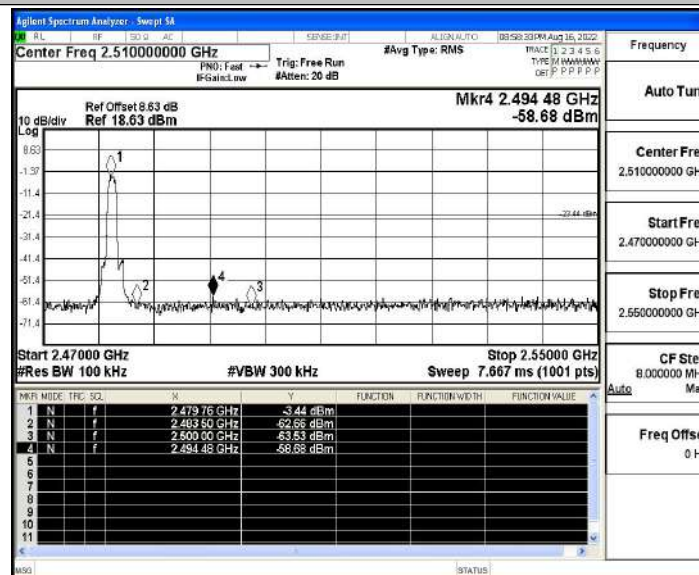


2DH5_Ant1_Low_2402



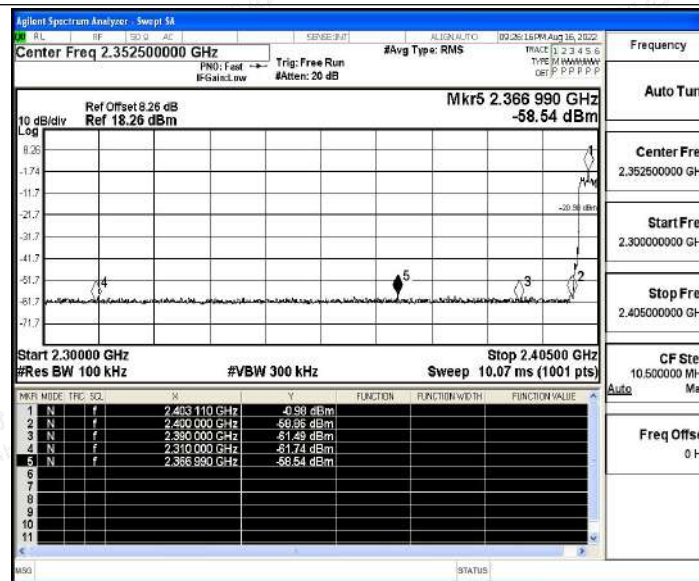


2DH5_Ant1_High_2480

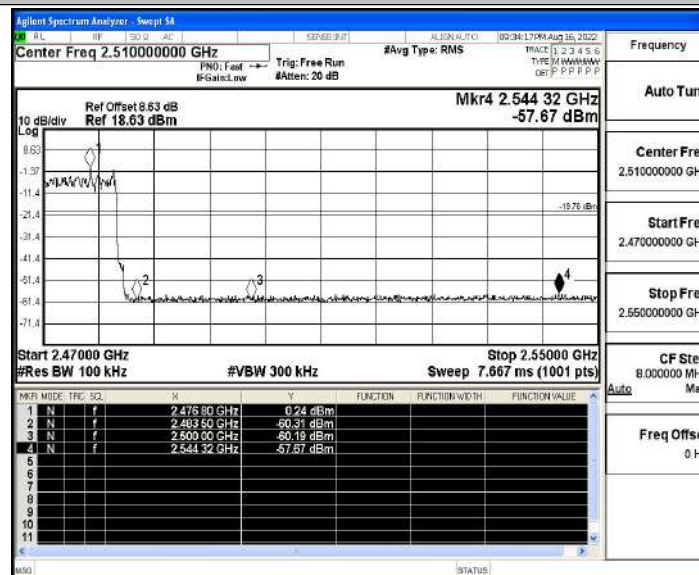


2DH5_Ant1_Low_Hop_2402



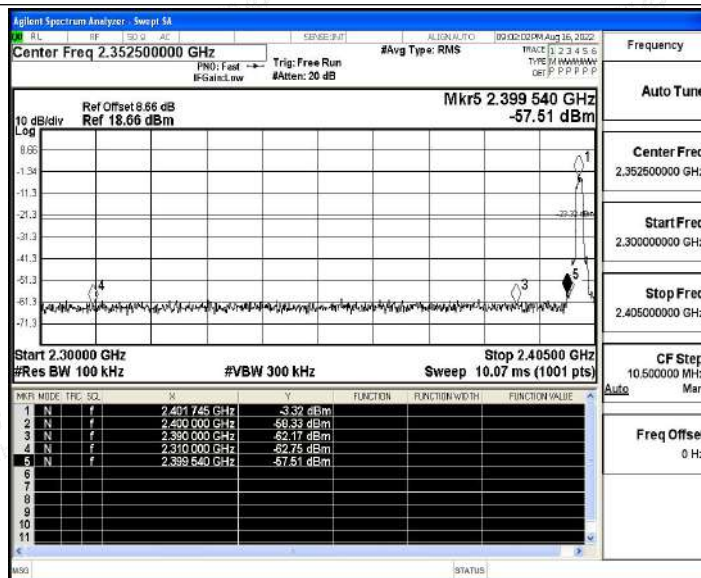


2DH5_Ant1_High_Hop_2480

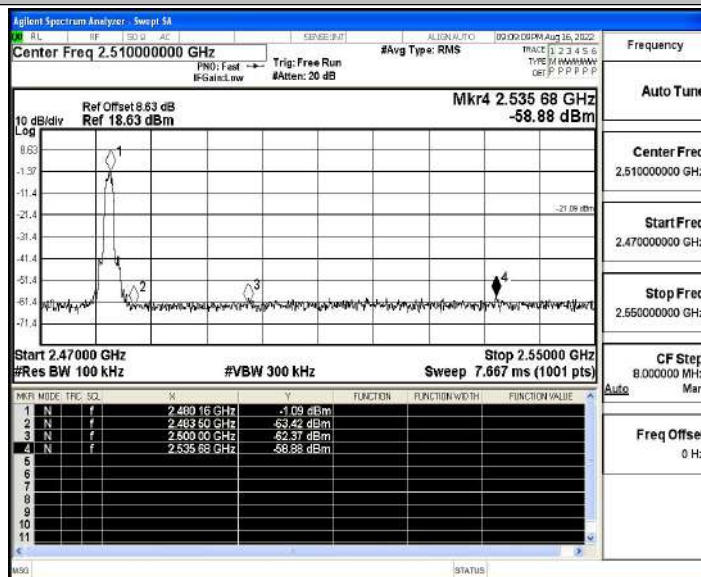


3DH5_Ant1_Low_2402



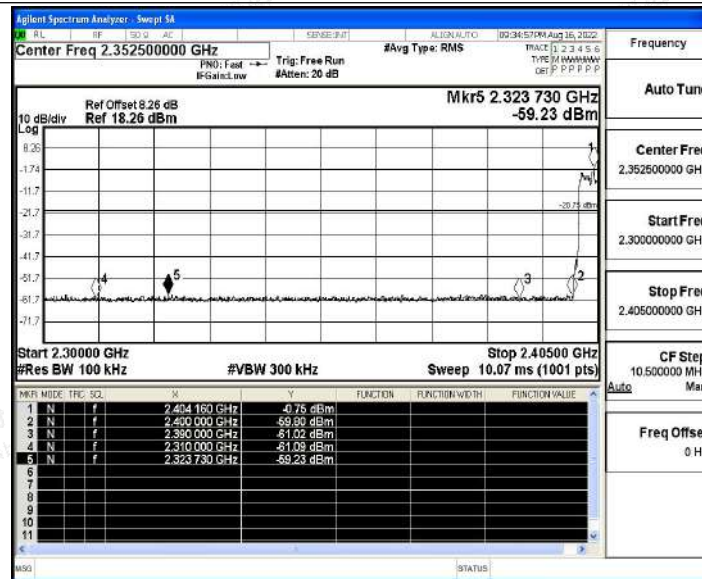


3DH5_Ant1_High_2480

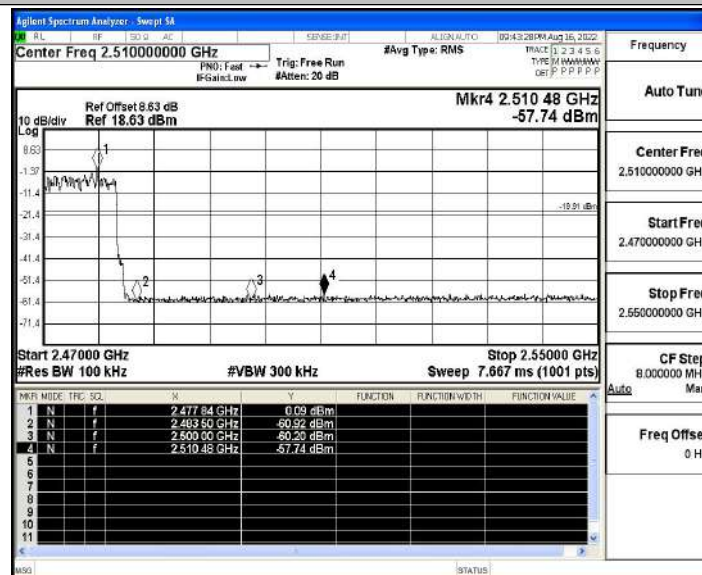


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-60.39	≤-19.76	PASS
			1000~26500	0.24	-45.98	≤-19.76	PASS
		2441	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-60.59	≤-19.59	PASS
			1000~26500	0.41	-46.39	≤-19.59	PASS
		2480	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-60.53	≤-19.78	PASS
			1000~26500	0.22	-46.09	≤-19.78	PASS
2DH5	Ant1	2402	Reference	-3.25	-3.25	---	PASS
			30~1000	-3.25	-60.56	≤-23.25	PASS
			1000~26500	-3.25	-45.81	≤-23.25	PASS
		2441	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-60.35	≤-21.34	PASS
			1000~26500	-1.34	-46.28	≤-21.34	PASS
		2480	Reference	-3.91	-3.91	---	PASS
			30~1000	-3.91	-60	≤-23.91	PASS
			1000~26500	-3.91	-46.3	≤-23.91	PASS
3DH5	Ant1	2402	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-60.66	≤-20.43	PASS
			1000~26500	-0.43	-45.45	≤-20.43	PASS
		2441	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-59.76	≤-21.18	PASS
			1000~26500	-1.18	-46.14	≤-21.18	PASS
		2480	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-61.06	≤-23.16	PASS
			1000~26500	-3.16	-46.1	≤-23.16	PASS



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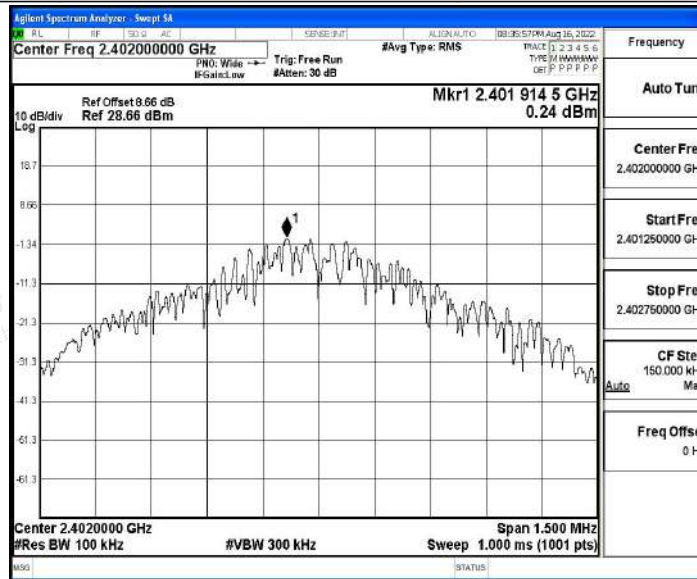
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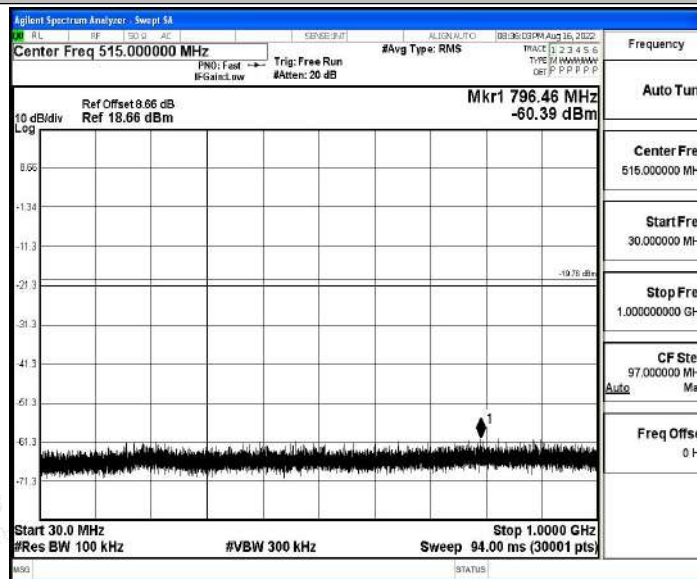


Test Graphs

DH5_Ant1_2402_0~Reference

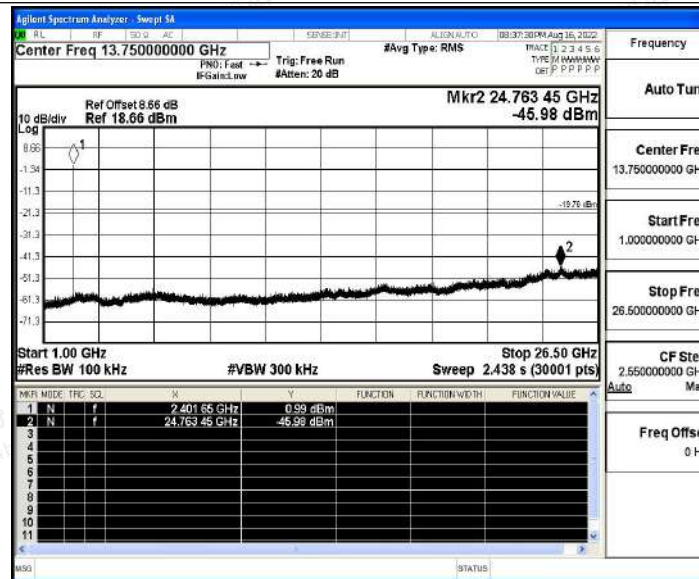


DH5_Ant1_2402_30~1000

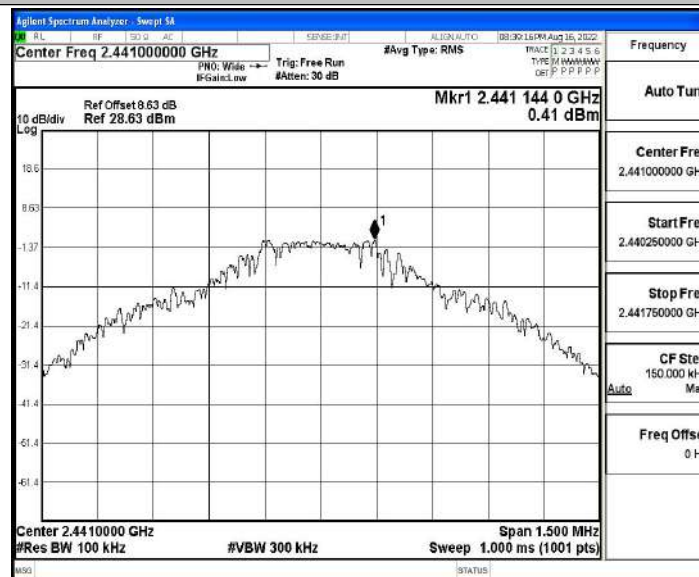


DH5_Ant1_2402_1000~26500





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

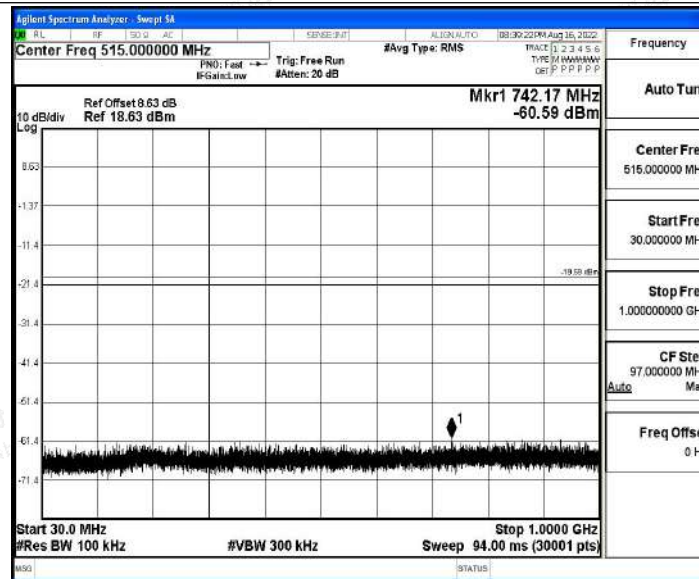


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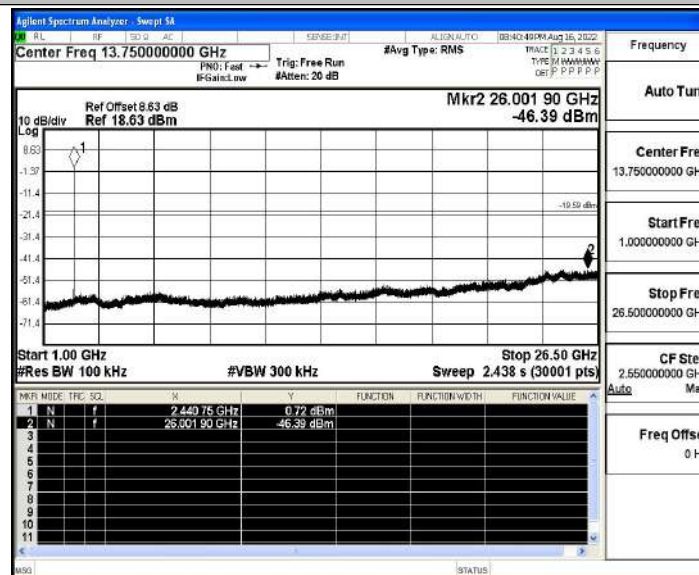
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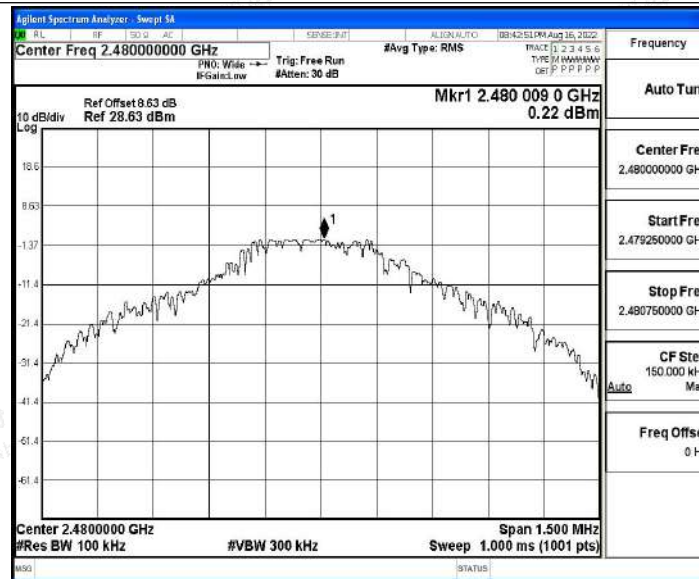


DH5_Ant1_2441_1000~26500

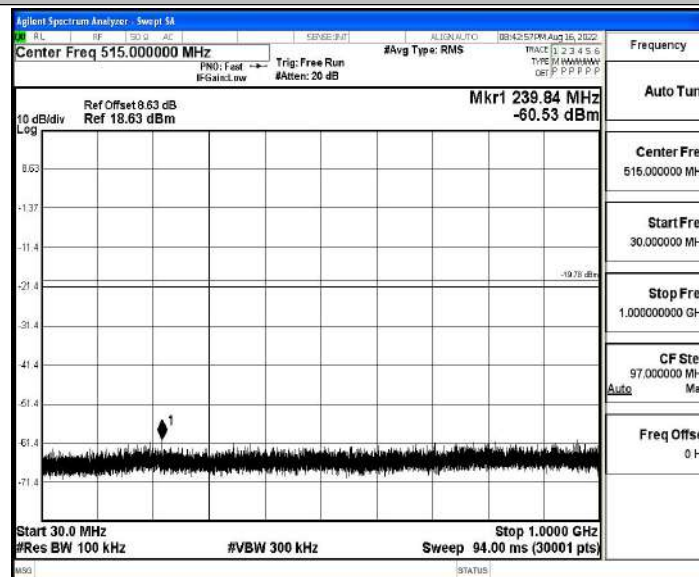


DH5_Ant1_2480_0~Reference



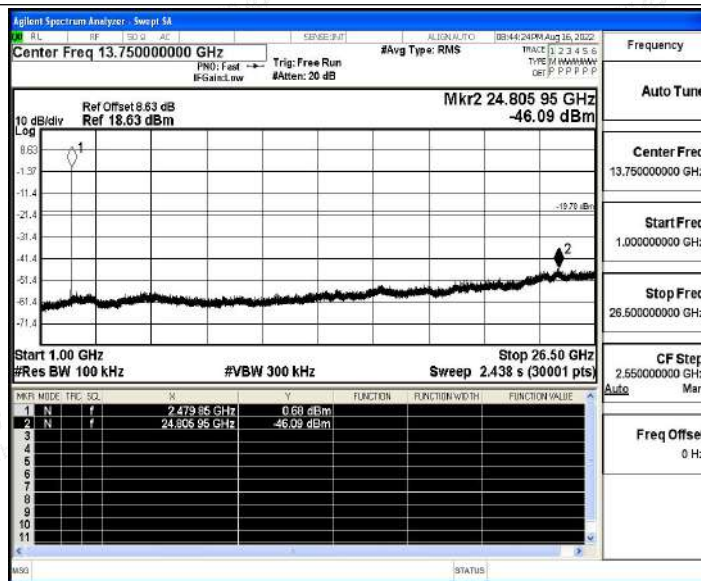


DH5_Ant1_2480_30~1000

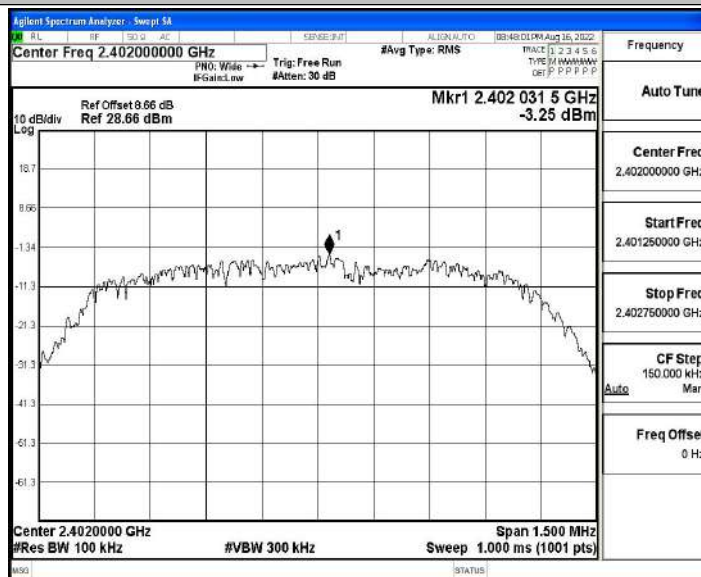


DH5_Ant1_2480_1000~26500





2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

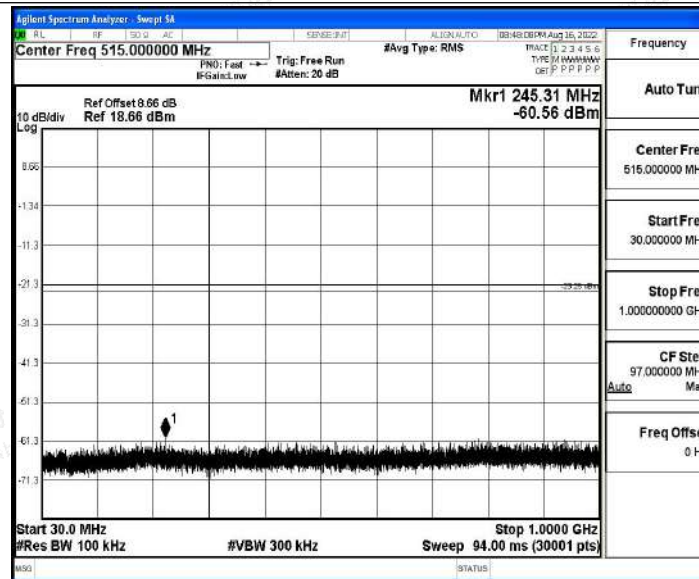


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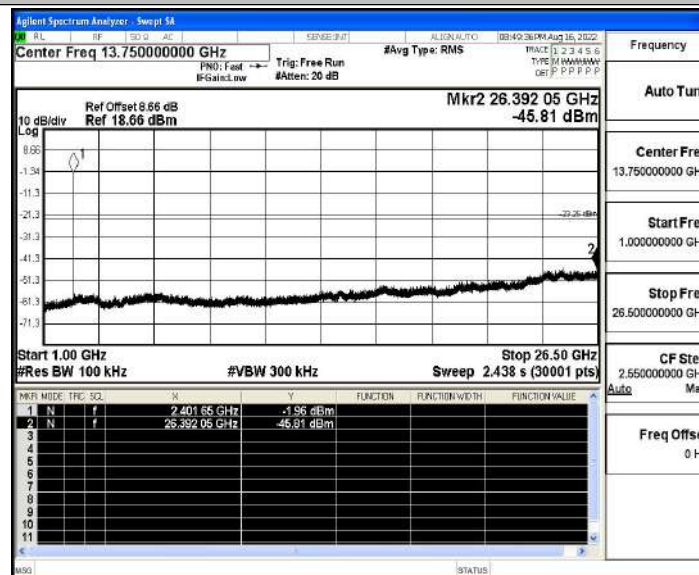
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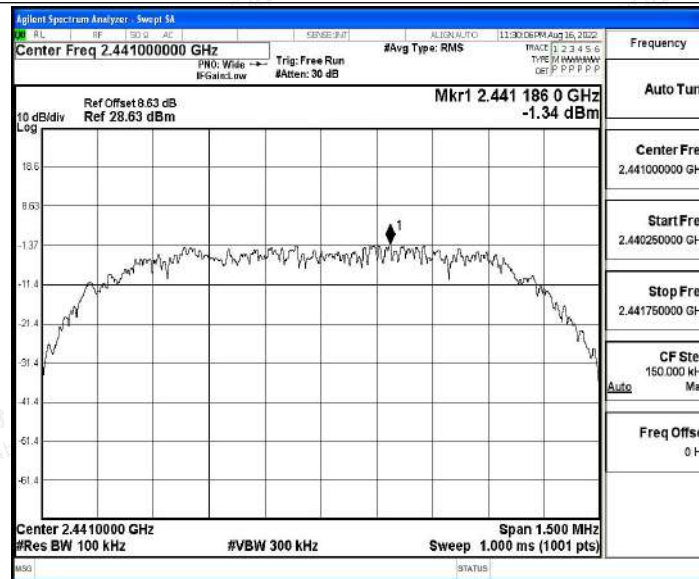


2DH5_Ant1_2402_1000~26500

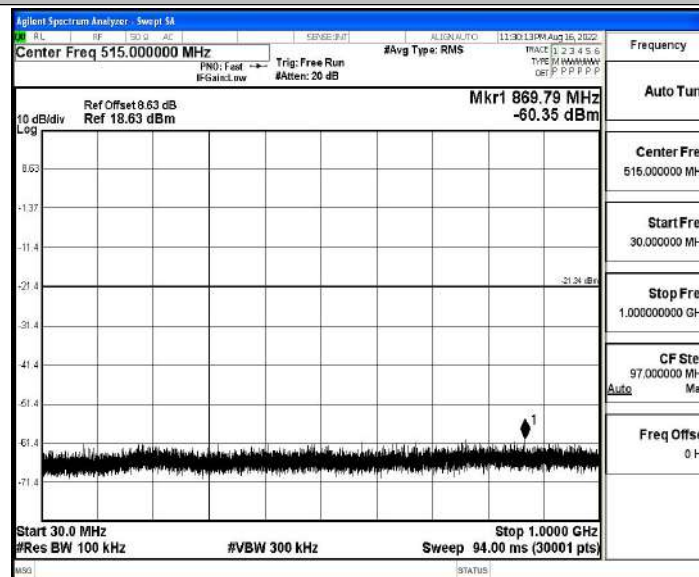


2DH5_Ant1_2441_0~Reference



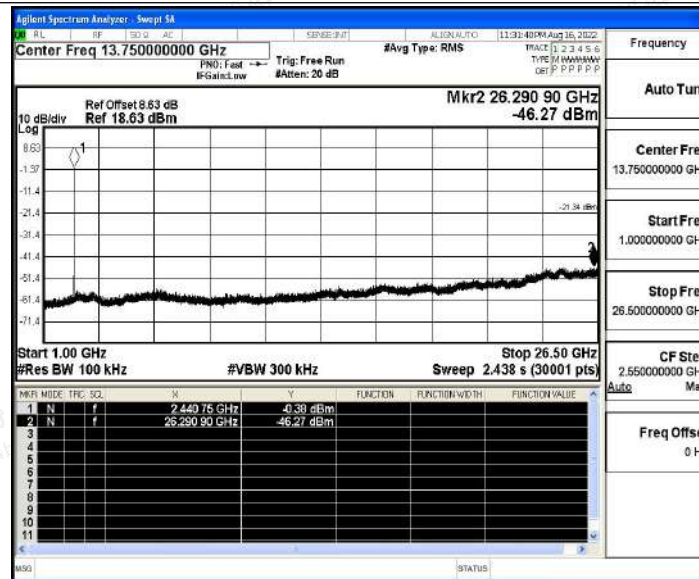


2DH5_Ant1_2441_30~1000

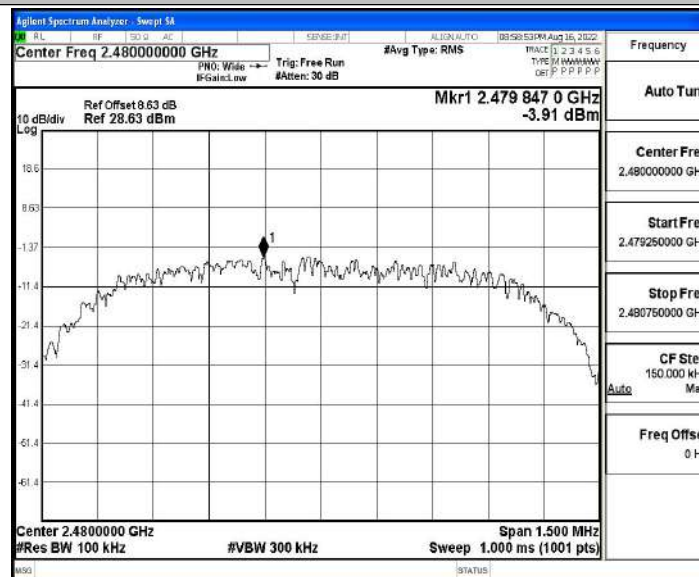


2DH5_Ant1_2441_1000~26500



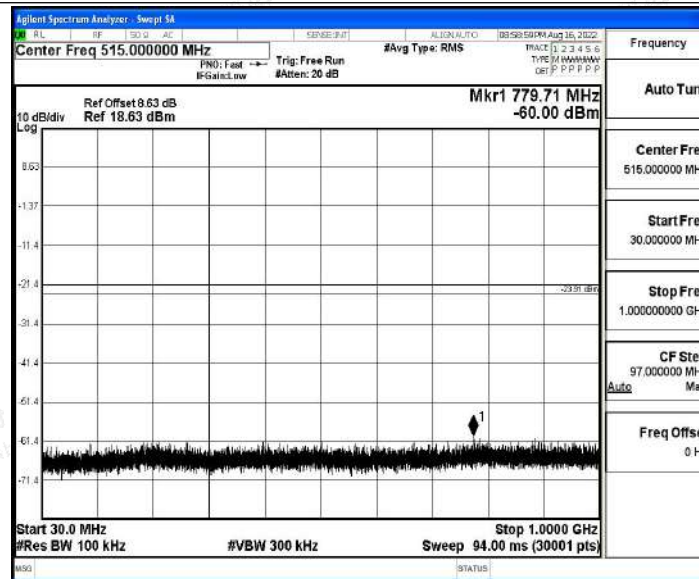


2DH5_Ant1_2480_0~Reference

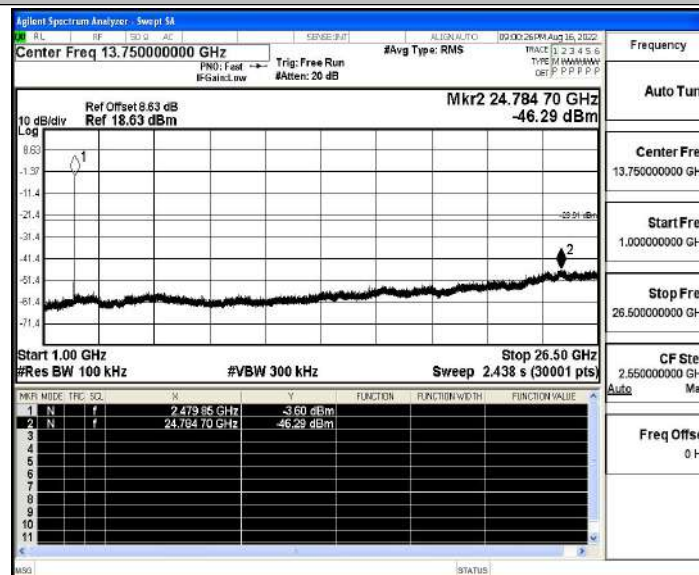


2DH5_Ant1_2480_30~1000



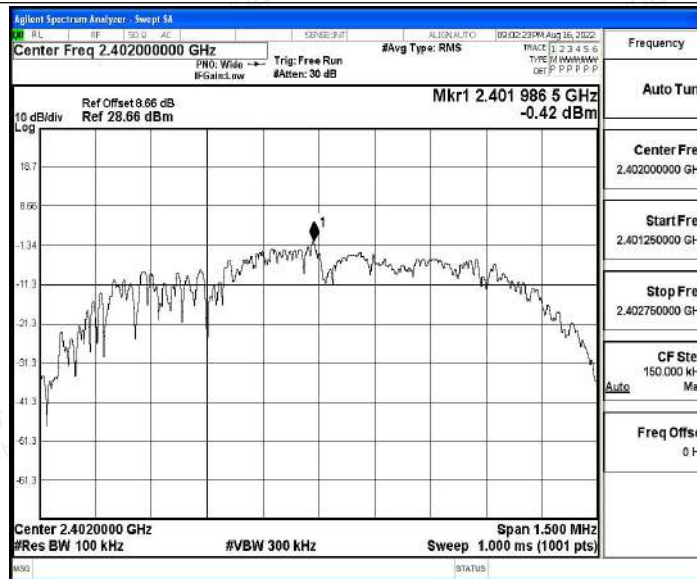


2DH5_Ant1_2480_1000~26500

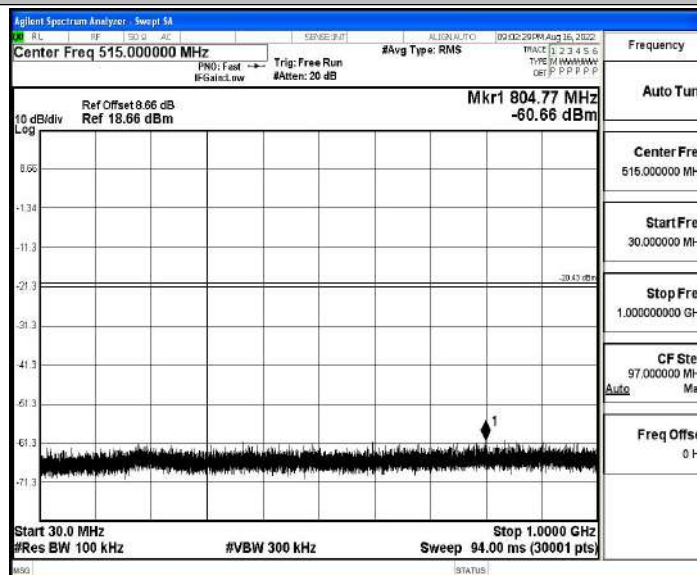


3DH5_Ant1_2402_0~Reference





3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

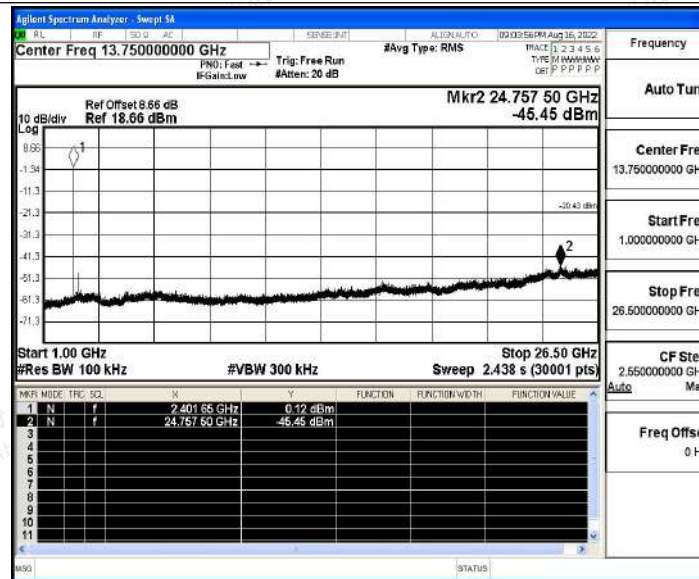


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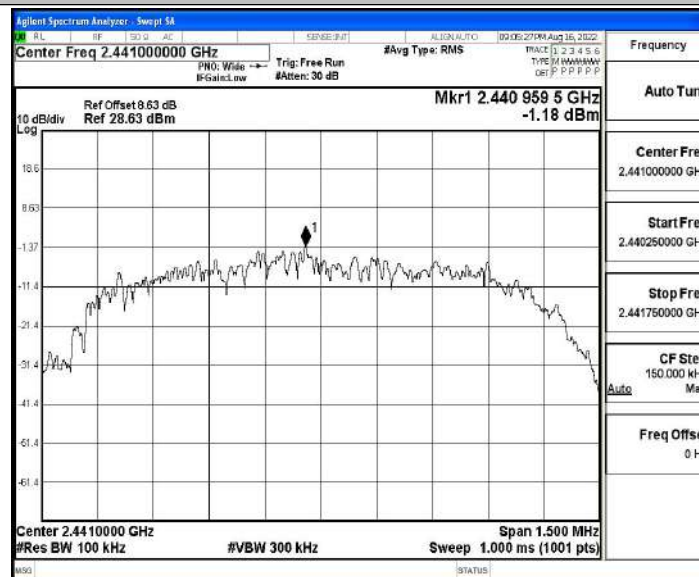
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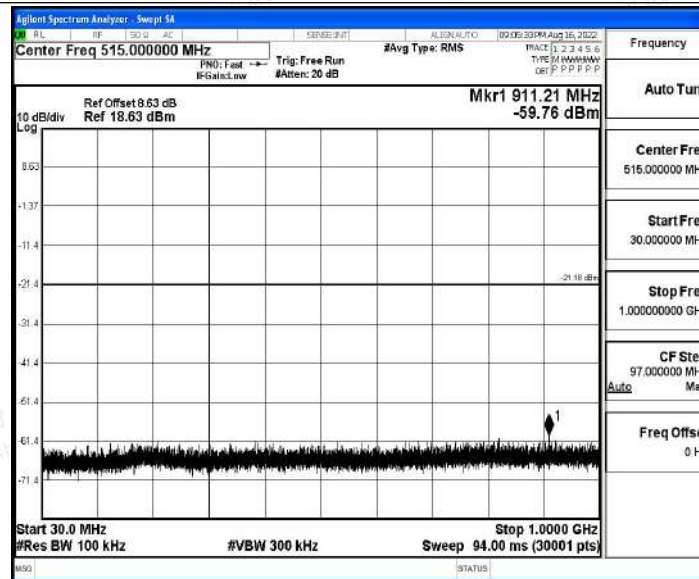


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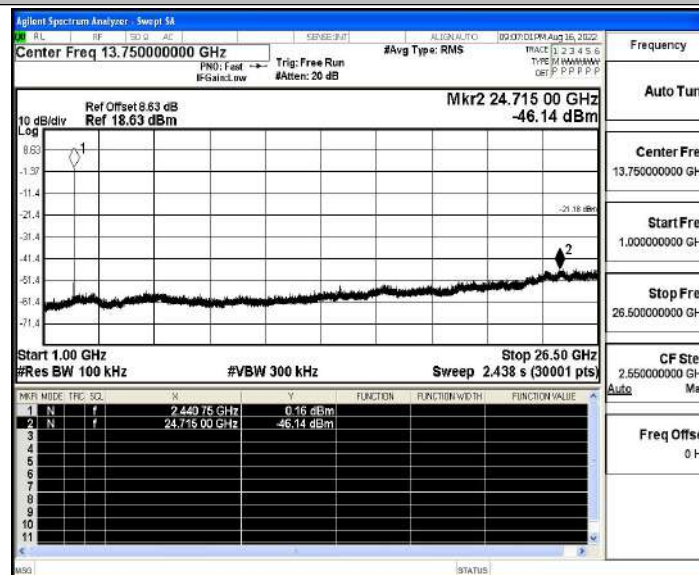


3DH5_Ant1_2441_30~1000



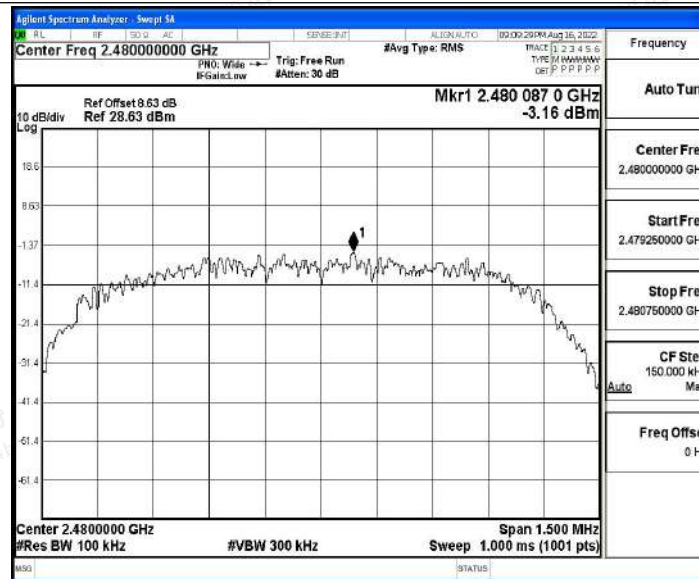


3DH5_Ant1_2441_1000~26500

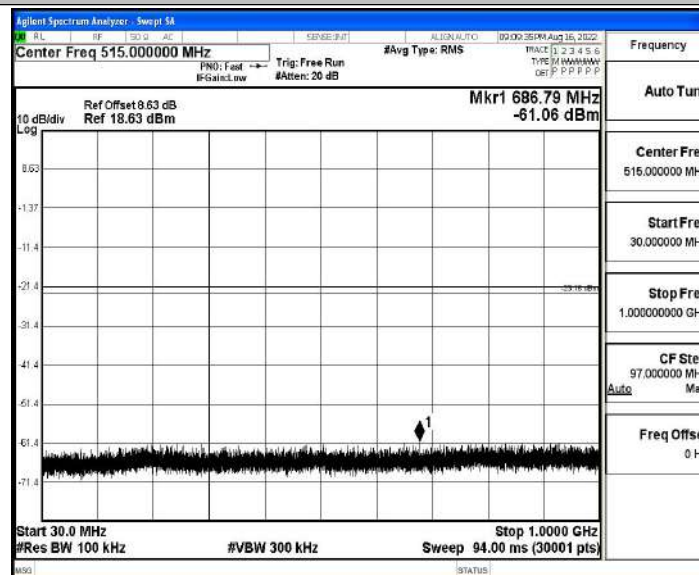


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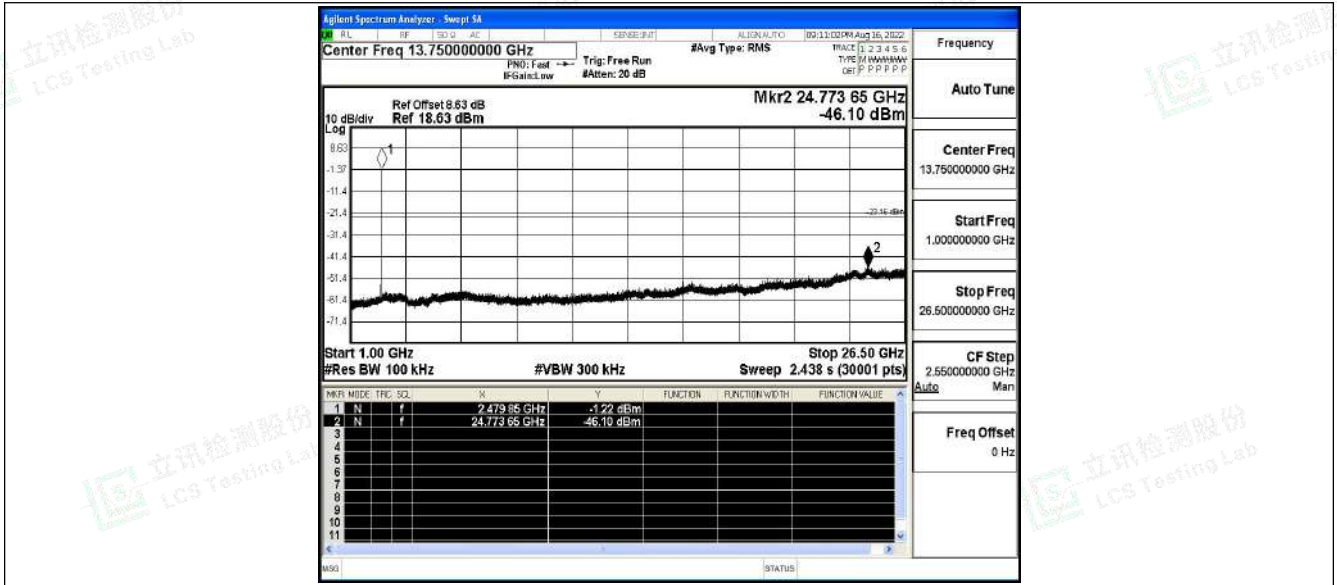


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







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	-58.14	≤-41.20	37.06	≤54	PASS
				AV	2386.520	-57.45	≤-41.20	37.75	≤54	PASS
				AV	2390.000	-57.69	≤-41.20	37.51	≤54	PASS
				Peak	2310.000	-52.13	≤-21.20	43.07	≤74	PASS
				Peak	2389.670	-48.31	≤-21.20	46.89	≤74	PASS
				Peak	2390.000	-51.84	≤-21.20	43.36	≤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	-56.99	≤-41.20	38.21	≤54	PASS
				Peak	2483.500	-50.46	≤-21.20	44.74	≤74	PASS
				Peak	2489.600	-48.35	≤-21.20	46.85	≤74	PASS
				Peak	2500.000	-52.78	≤-21.20	42.42	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.04	≤-41.20	37.16	≤54	PASS
				AV	2388.515	-57.31	≤-41.20	37.89	≤54	PASS
				AV	2390.000	-57.54	≤-41.20	37.66	≤54	PASS
				Peak	2310.000	-49.16	≤-21.20	46.04	≤74	PASS
				Peak	2387.570	-47.5	≤-21.20	47.70	≤74	PASS
				Peak	2390.000	-52.78	≤-21.20	42.42	≤74	PASS
		High	2480	AV	2483.500	-54.6	≤-41.20	40.60	≤54	PASS
				AV	2483.520	-54.6	≤-41.20	40.60	≤54	PASS
				AV	2500.000	-57.08	≤-41.20	38.12	≤54	PASS
				Peak	2483.500	-51.84	≤-21.20	43.36	≤74	PASS
				Peak	2494.960	-48.51	≤-21.20	46.69	≤74	PASS
				Peak	2500.000	-51.3	≤-21.20	43.90	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-57.92	≤-41.20	37.28	≤54	PASS
				AV	2388.830	-57.35	≤-41.20	37.85	≤54	PASS
				AV	2390.000	-57.5	≤-41.20	37.70	≤54	PASS
				Peak	2310.000	-53.09	≤-21.20	42.11	≤74	PASS
				Peak	2347.985	-47.96	≤-21.20	47.24	≤74	PASS
				Peak	2390.000	-53.17	≤-21.20	42.03	≤74	PASS
		High	2480	AV	2483.500	-54.4	≤-41.20	40.80	≤54	PASS
				AV	2483.520	-54.4	≤-41.20	40.80	≤54	PASS
				AV	2500.000	-57.04	≤-41.20	38.16	≤54	PASS
				Peak	2483.500	-51.99	≤-21.20	43.21	≤74	PASS
				Peak	2495.760	-48.32	≤-21.20	46.88	≤74	PASS



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				Peak	2500.000	-53.05	≤-21.20	42.15	≤74	PASS
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Note:

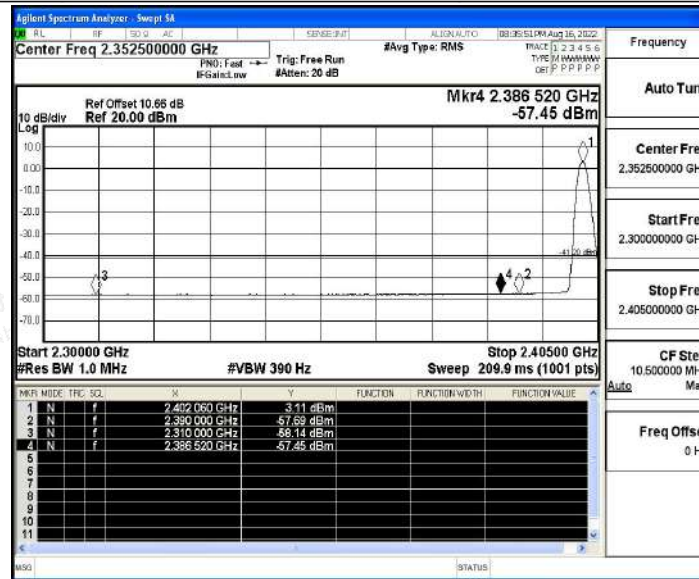
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



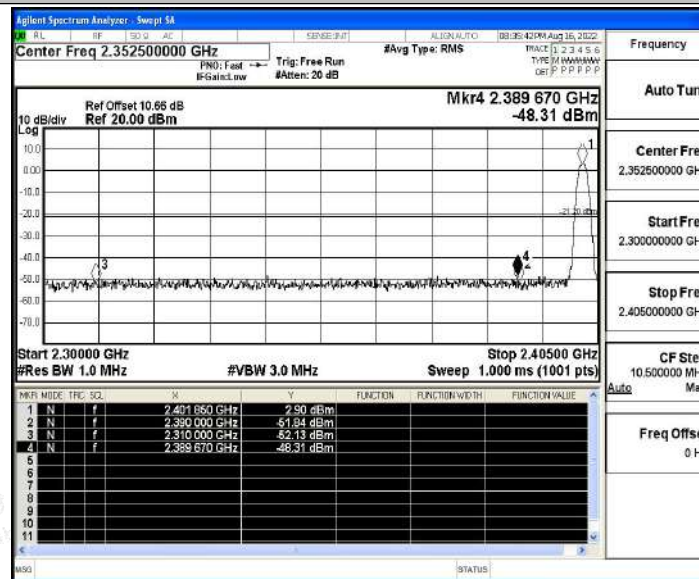


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

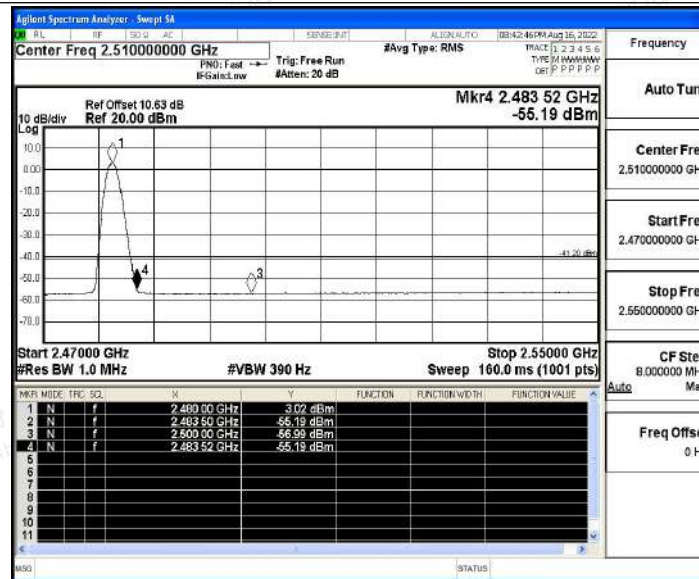


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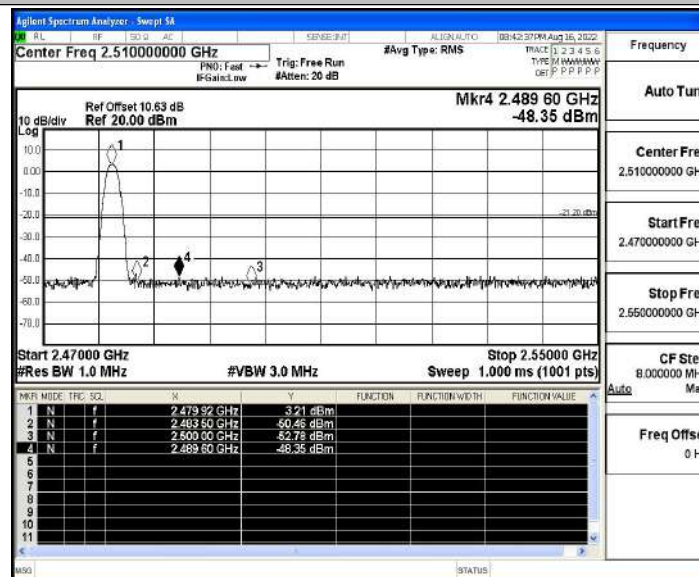
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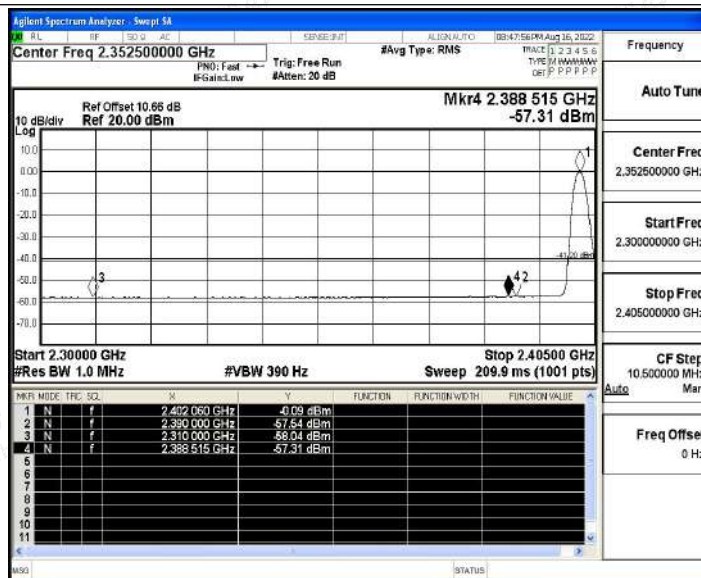


DH5_Ant1_High_2480_Peak

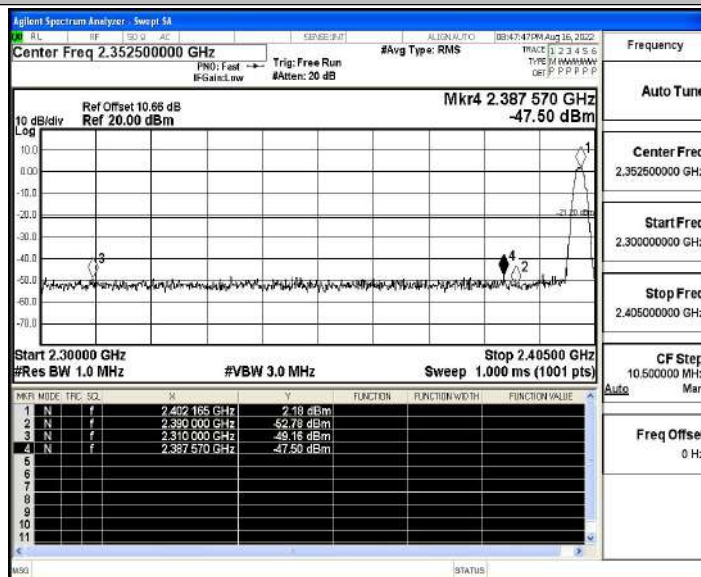


2DH5_Ant1_Low_2402_AV





2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

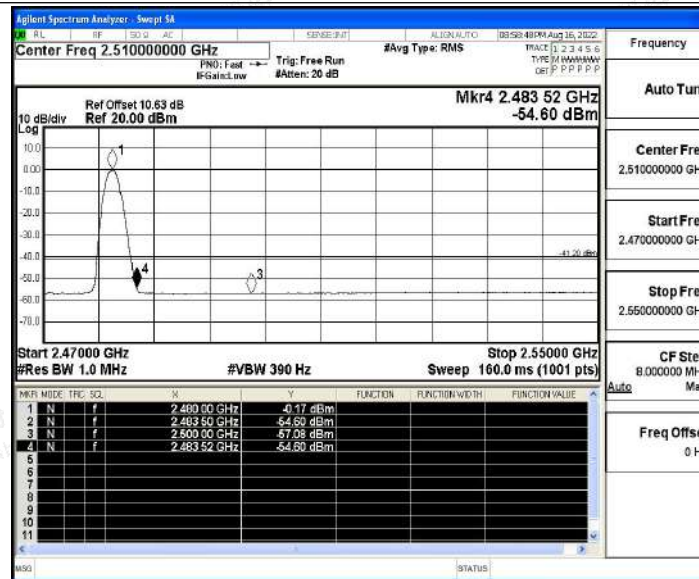


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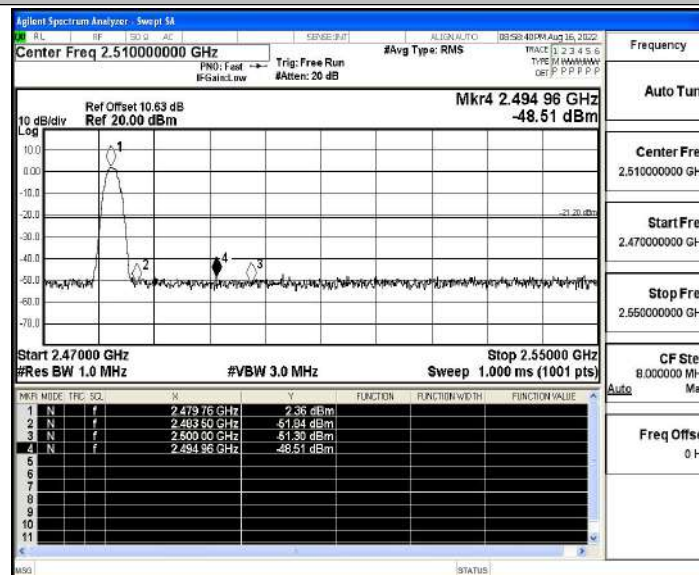
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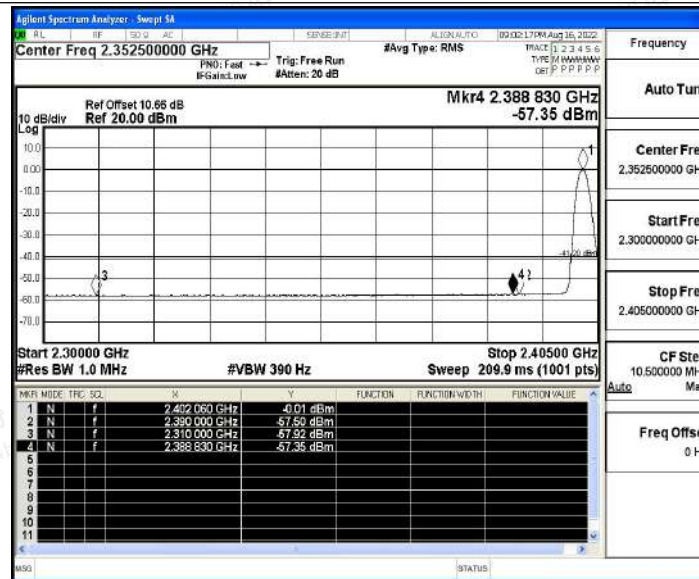


2DH5_Ant1_High_2480_Peak

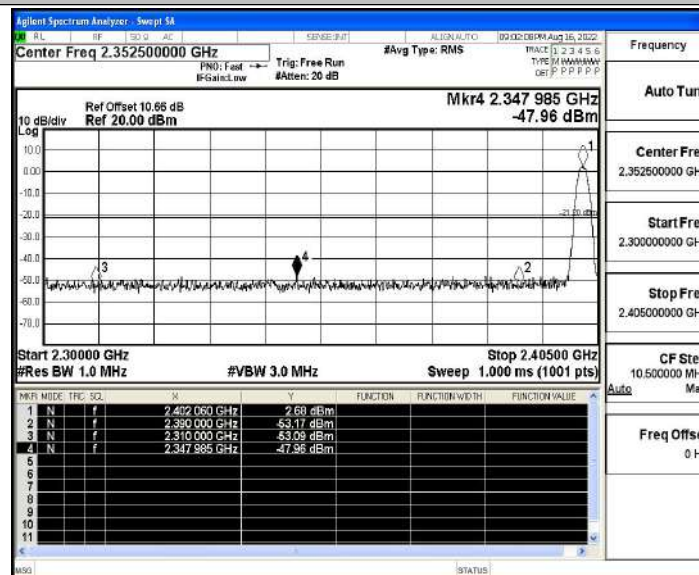


3DH5_Ant1_Low_2402_AV



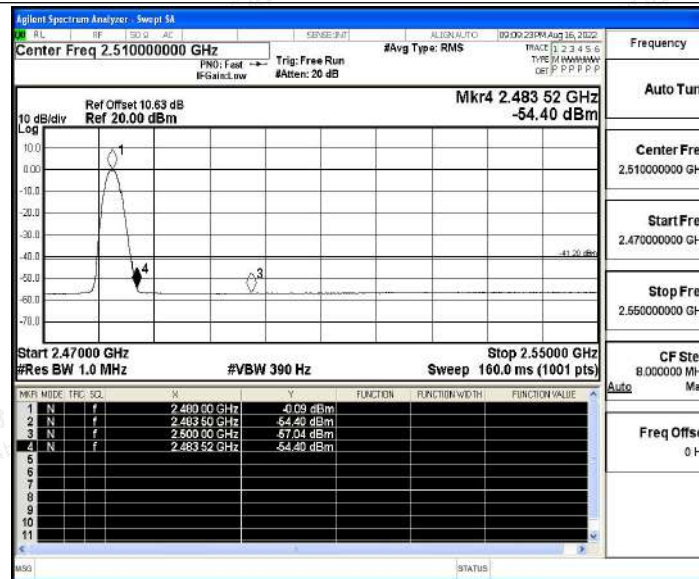


3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak

