



Appendix A

RF Test Data for BT (Conducted Measurement)

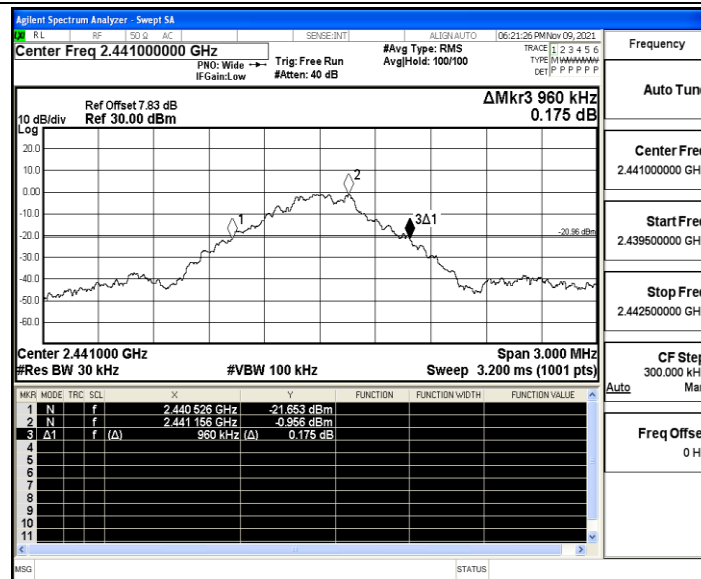
Product Name: Bluetooth Adapter

Test Model: 06H-8510-4.0

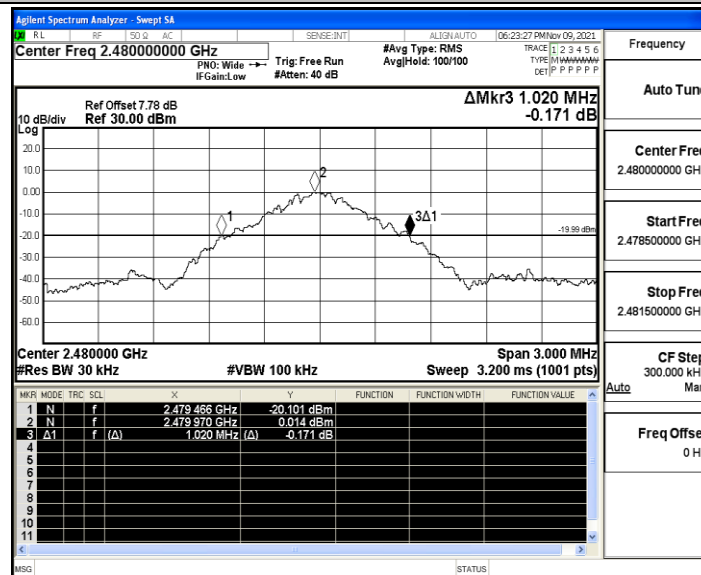
Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Li Huan

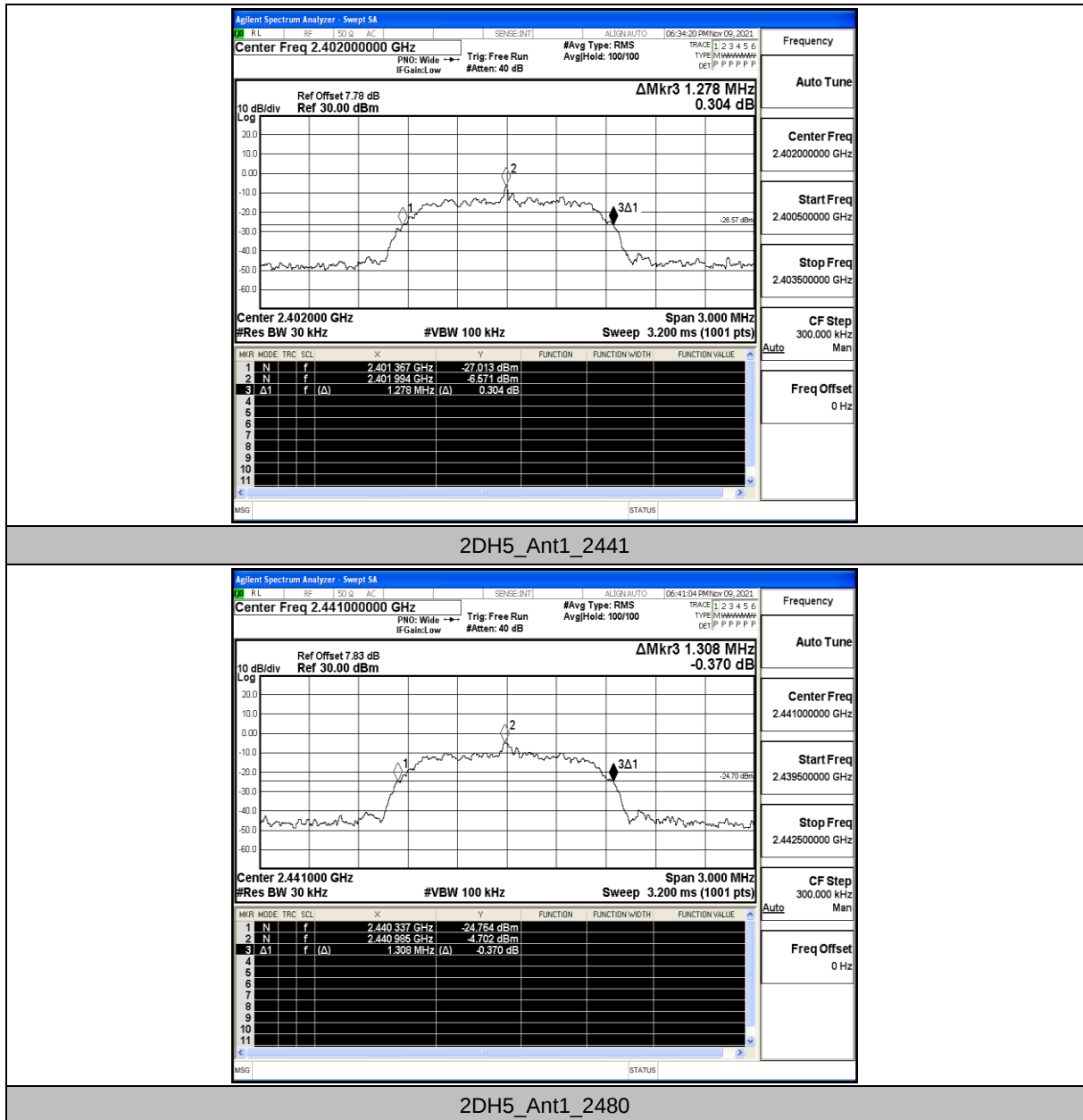


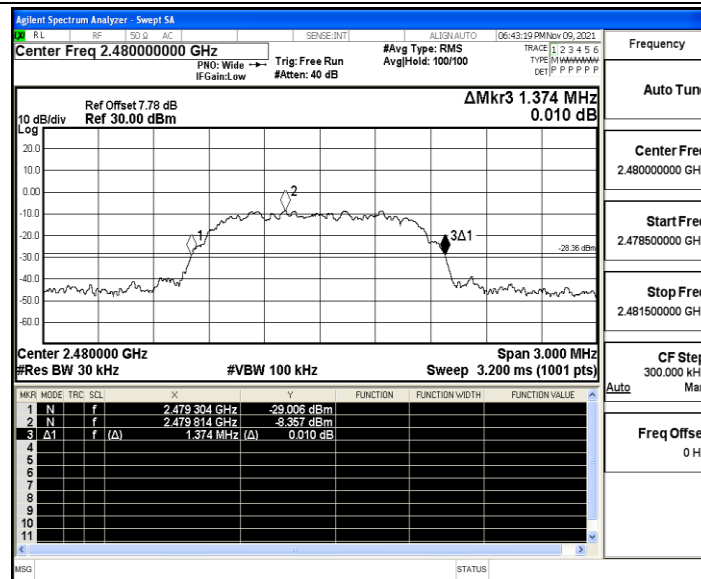


DH5_Ant1_2480

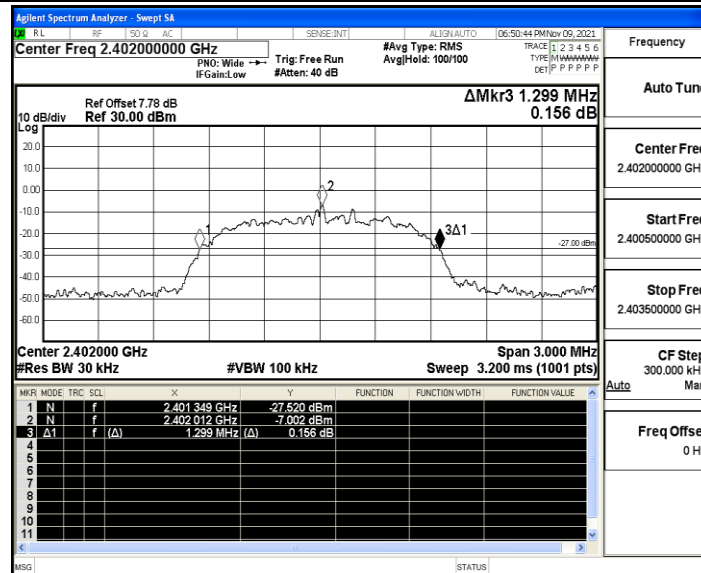


2DH5_Ant1_2402





3DH5_Ant1_2402



3DH5_Ant1_2441



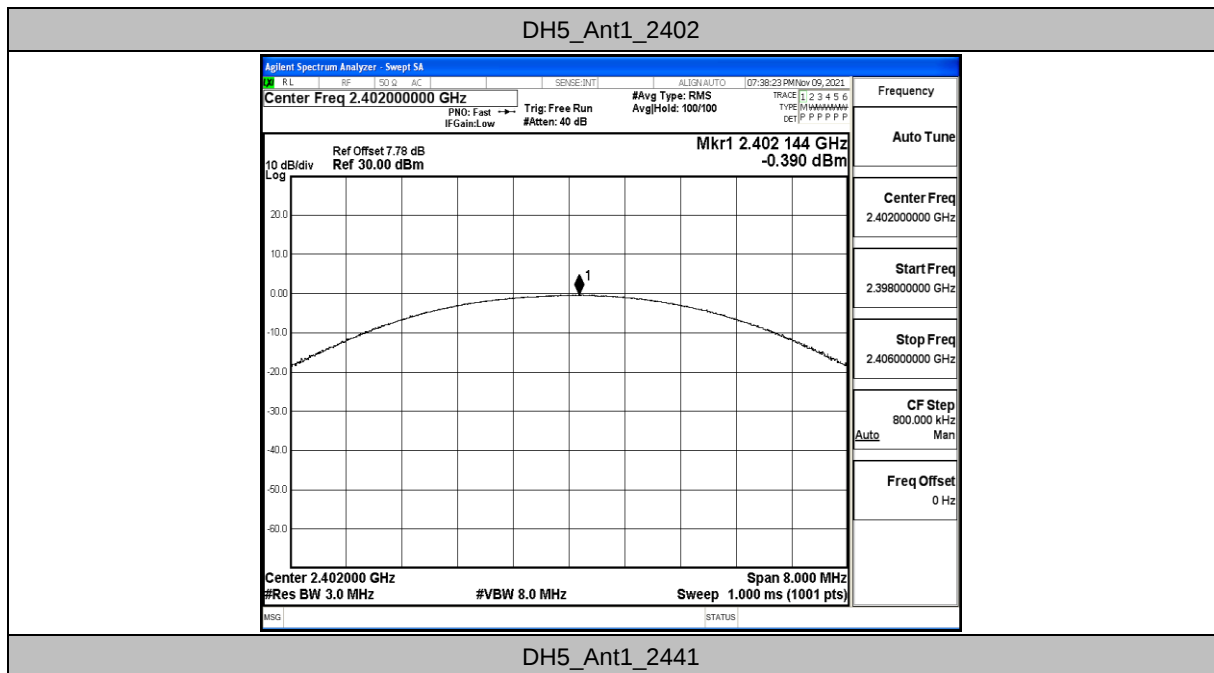


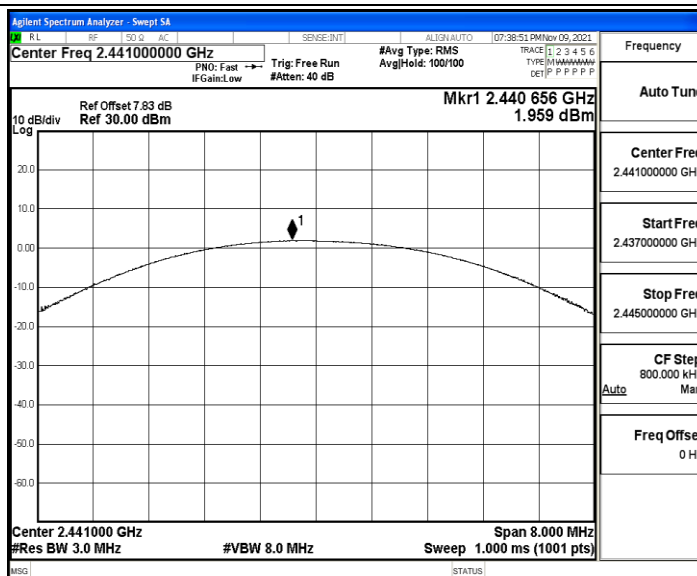
A.2 Maximum conducted output power

Test Result

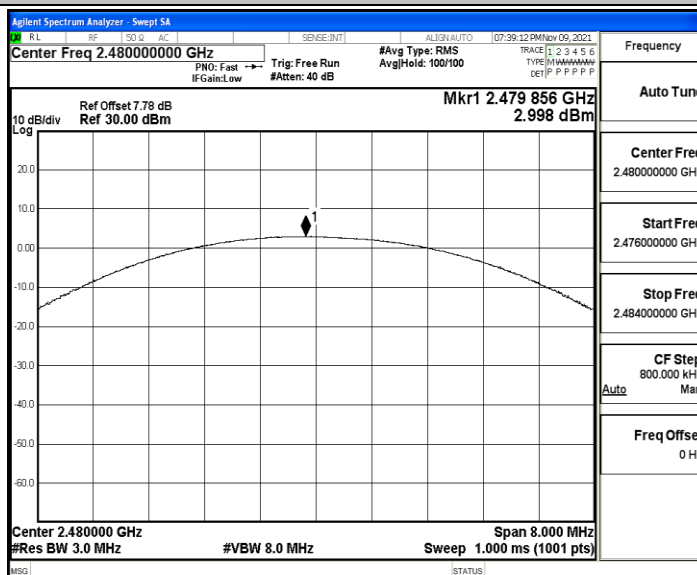
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.39	≤30	PASS
		2441	1.96	≤30	PASS
		2480	3.00	≤30	PASS
2DH5	Ant1	2402	-2.82	≤20.97	PASS
		2441	-0.27	≤20.97	PASS
		2480	0.80	≤20.97	PASS
3DH5	Ant1	2402	-2.55	≤20.97	PASS
		2441	0.13	≤20.97	PASS
		2480	1.41	≤20.97	PASS

Test Graphs

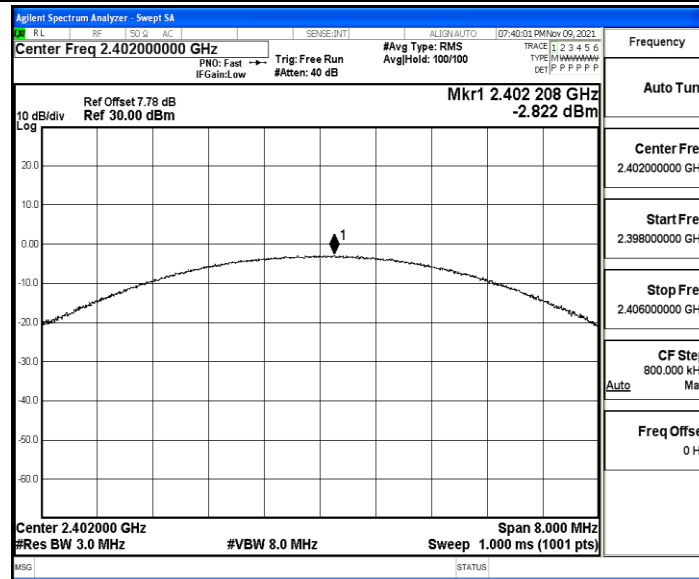




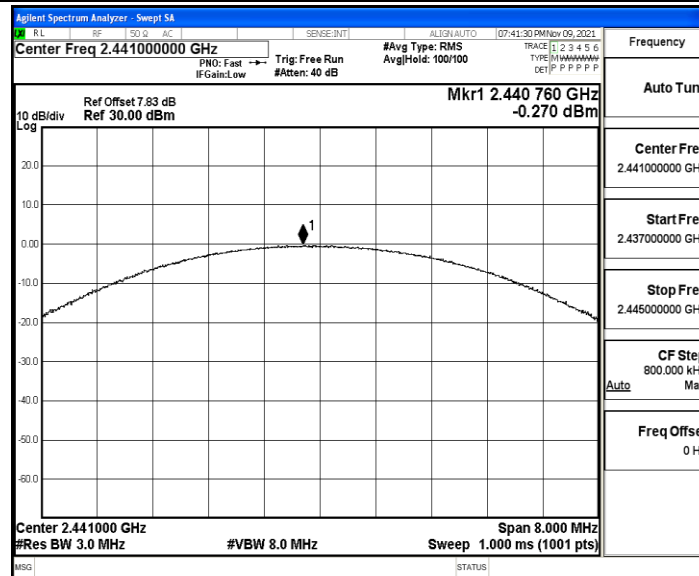
DH5_Ant1_2480



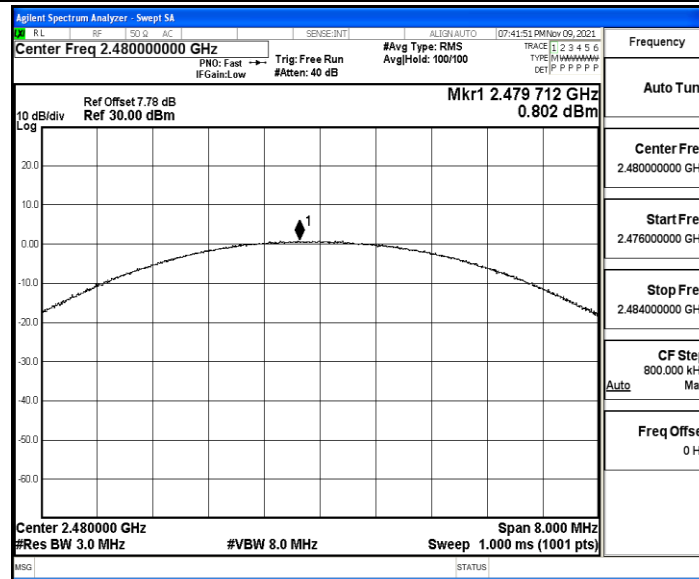
2DH5_Ant1_2402



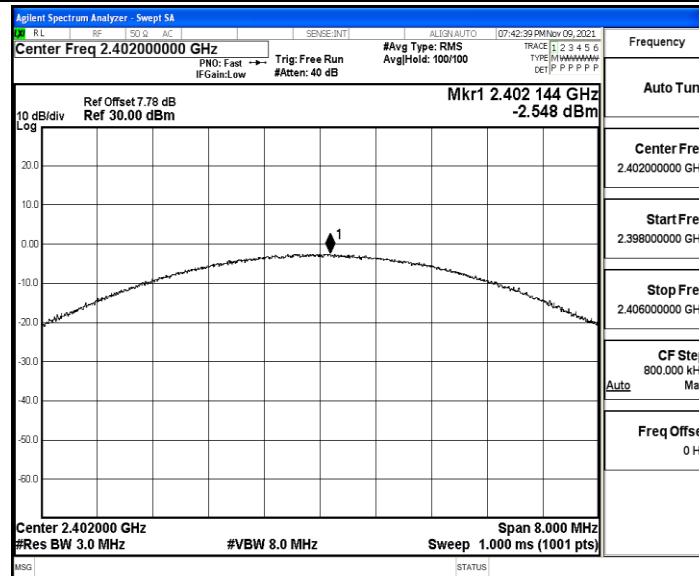
2DH5_Ant1_2441



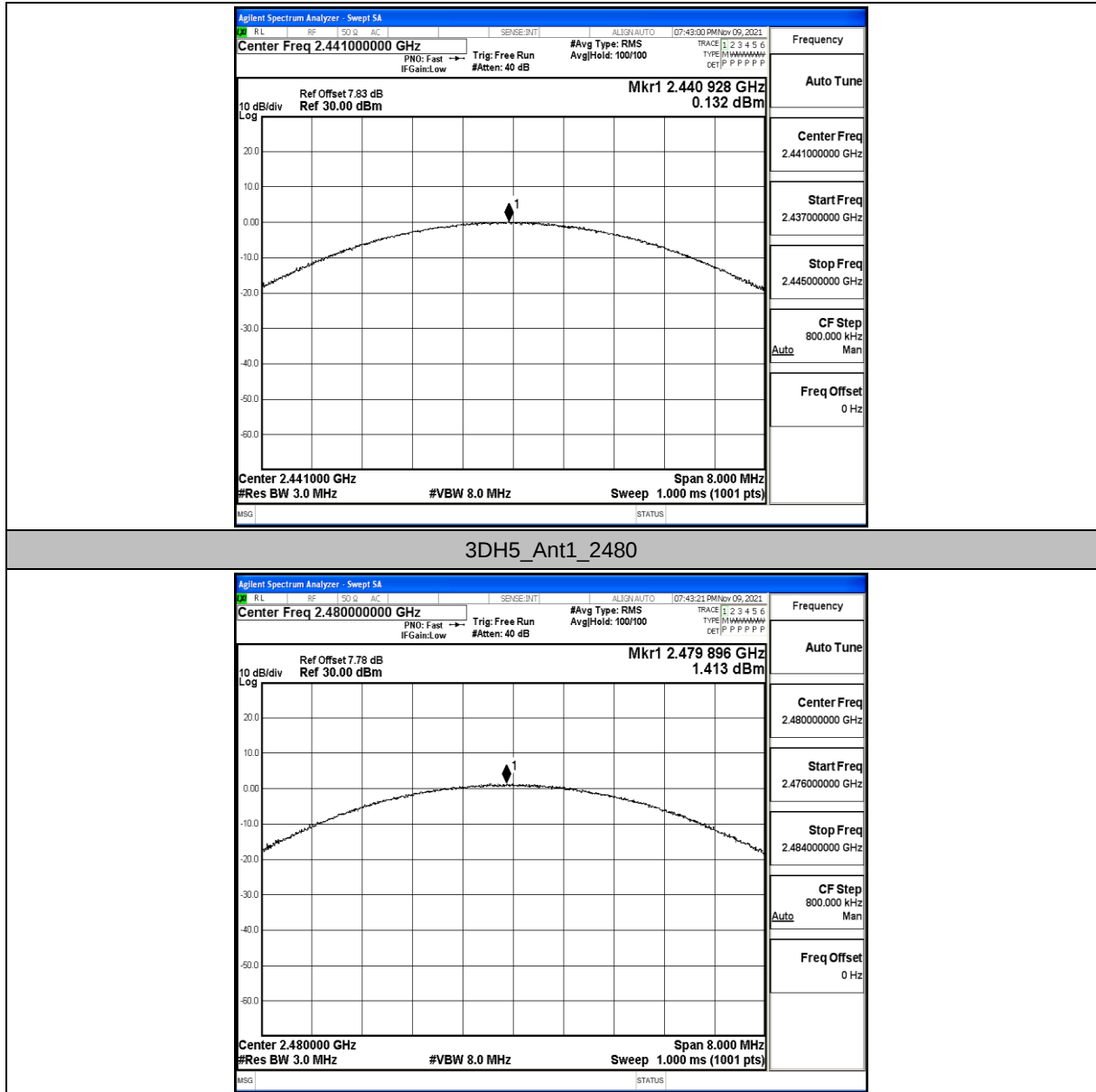
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



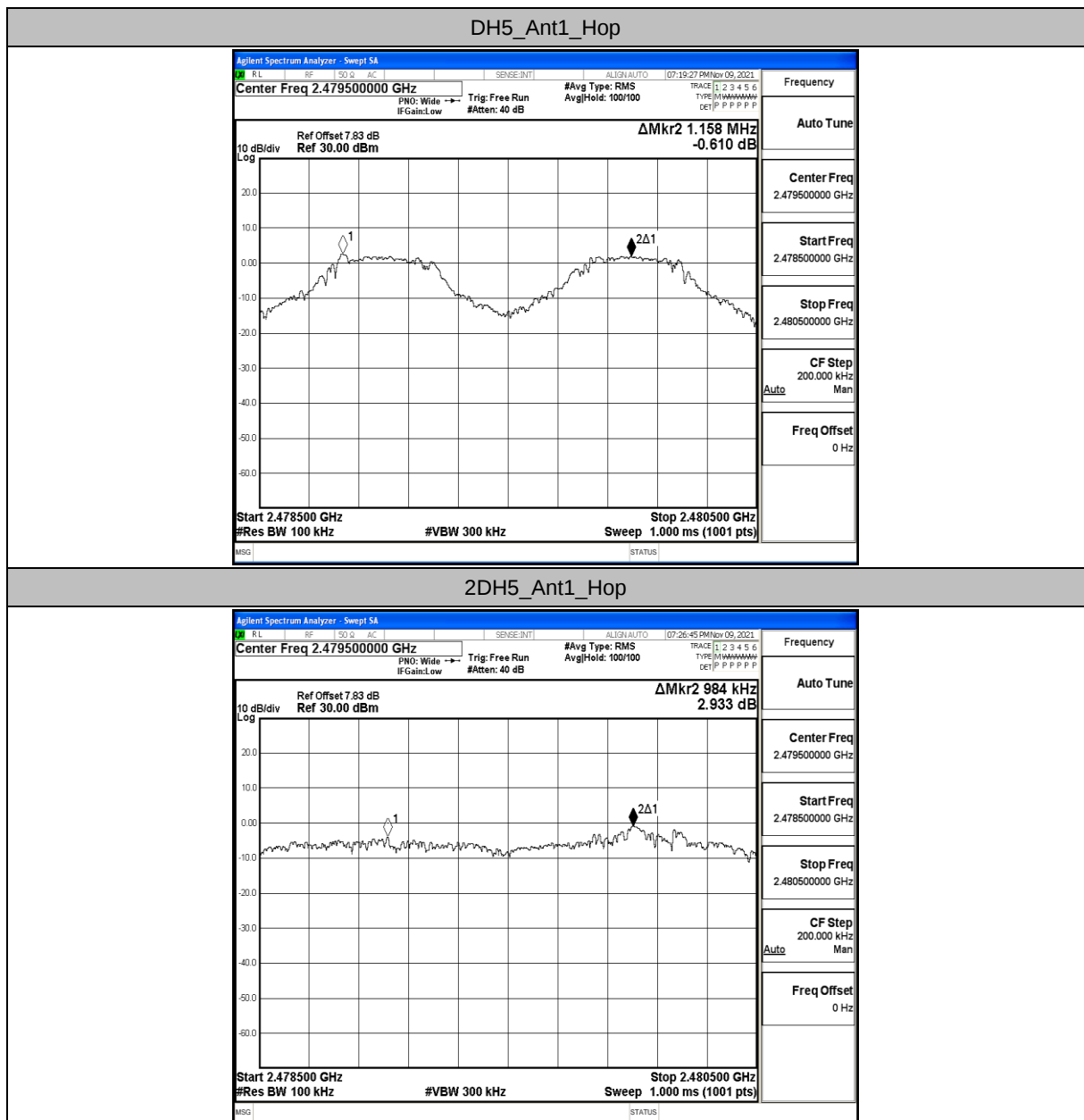


A.3 Carrier frequency separation

Test Result

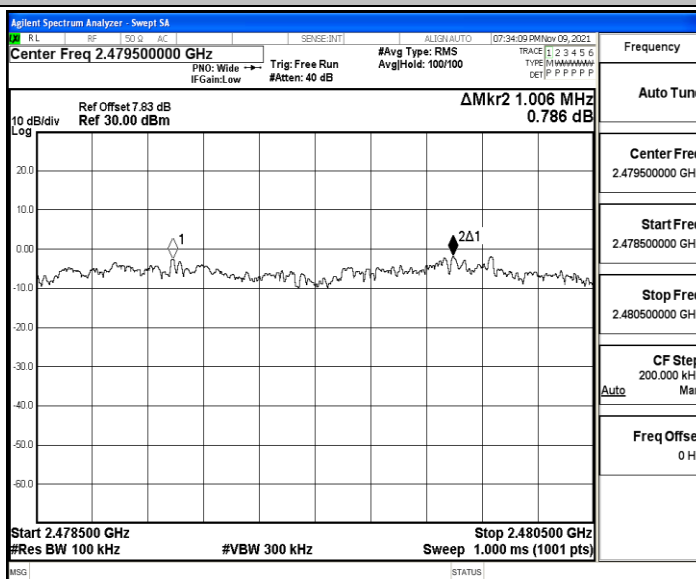
TestMode	Antenna	Channel	Result[M/Hz]	Limit[M/Hz]	Verdict
DH5	Ant1	Hop	1.158	≥ 0.772	PASS
2DH5	Ant1	Hop	0.984	≥ 0.656	PASS
3DH5	Ant1	Hop	1.006	≥ 0.671	PASS

Test Graphs





3DH5_Ant1_Hop



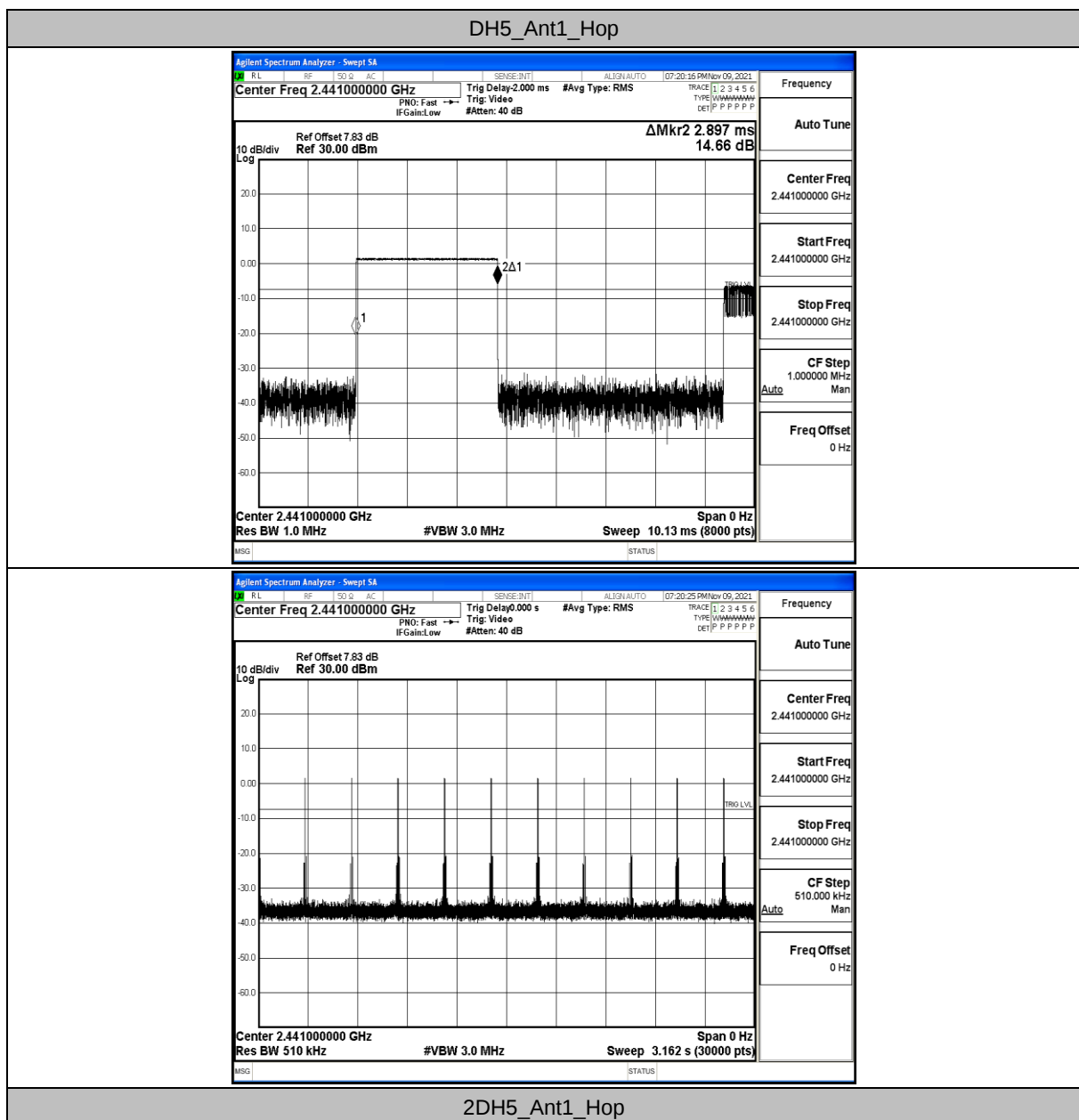


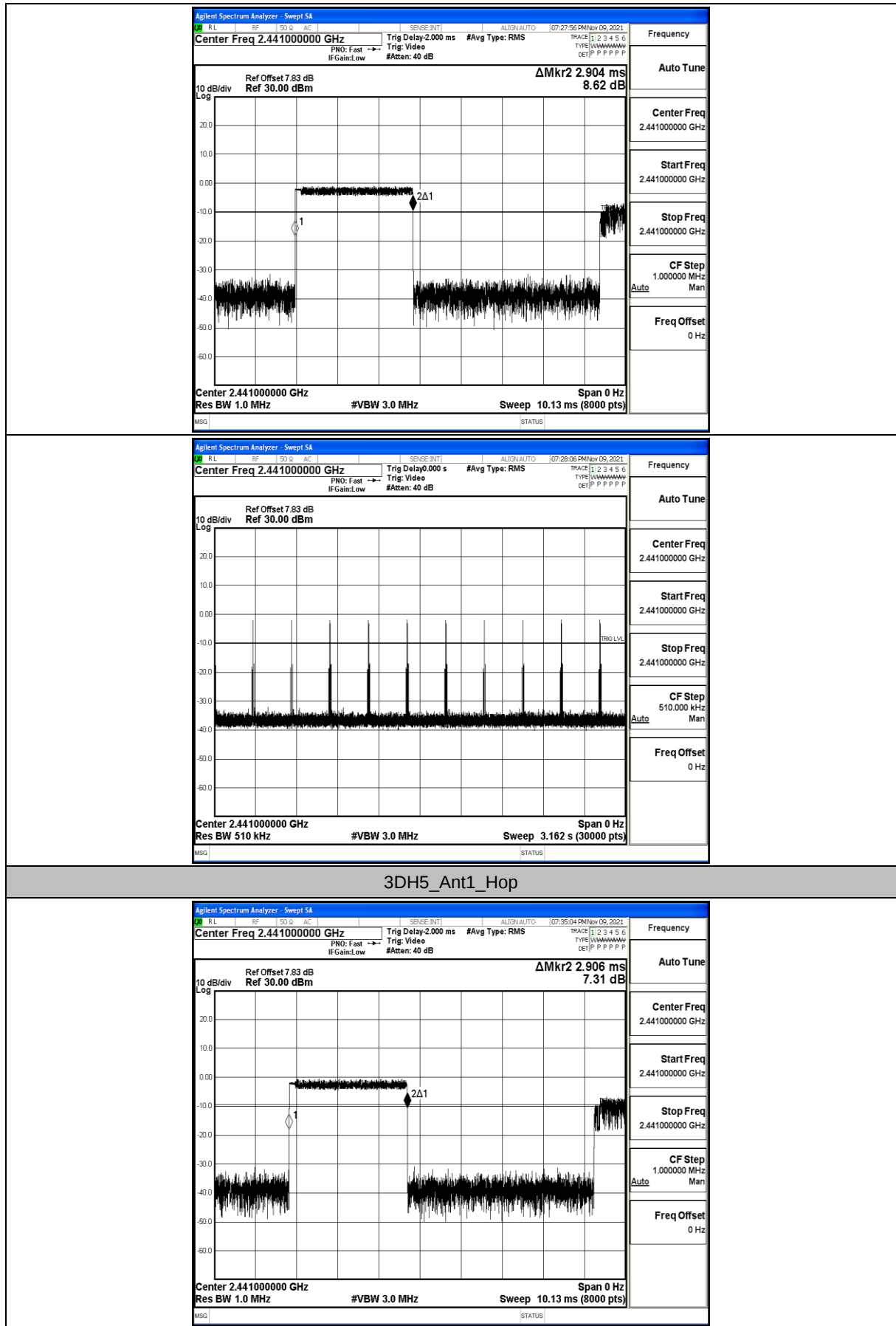
A.4 Time of occupancy

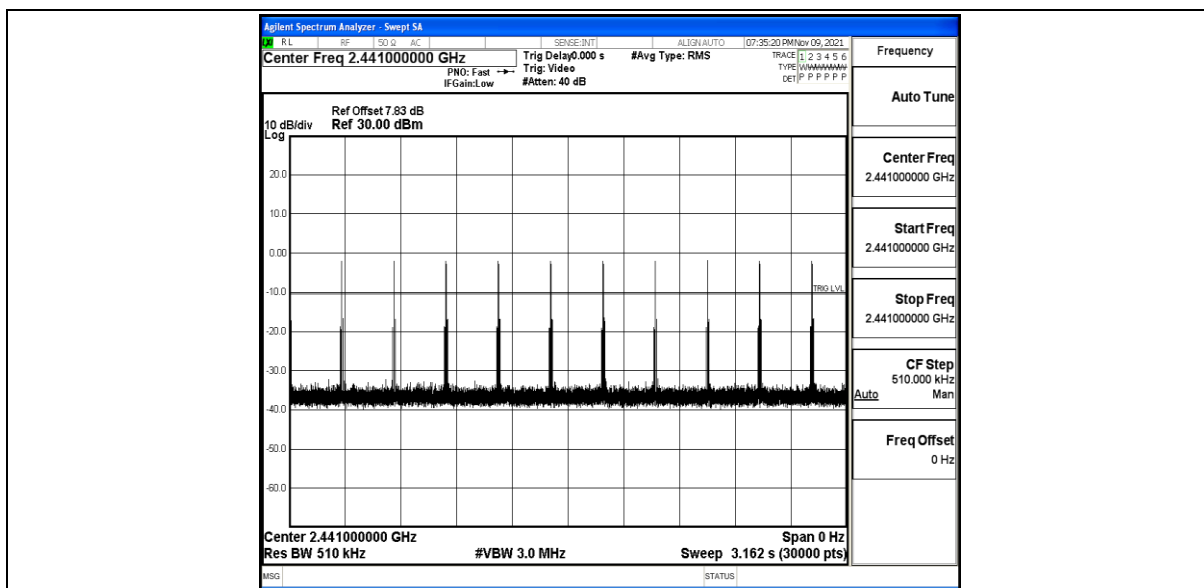
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
2DH5	Ant1	Hop	2.90	110	0.319	≤0.4	PASS
3DH5	Ant1	Hop	2.91	110	0.32	≤0.4	PASS

Test Graphs







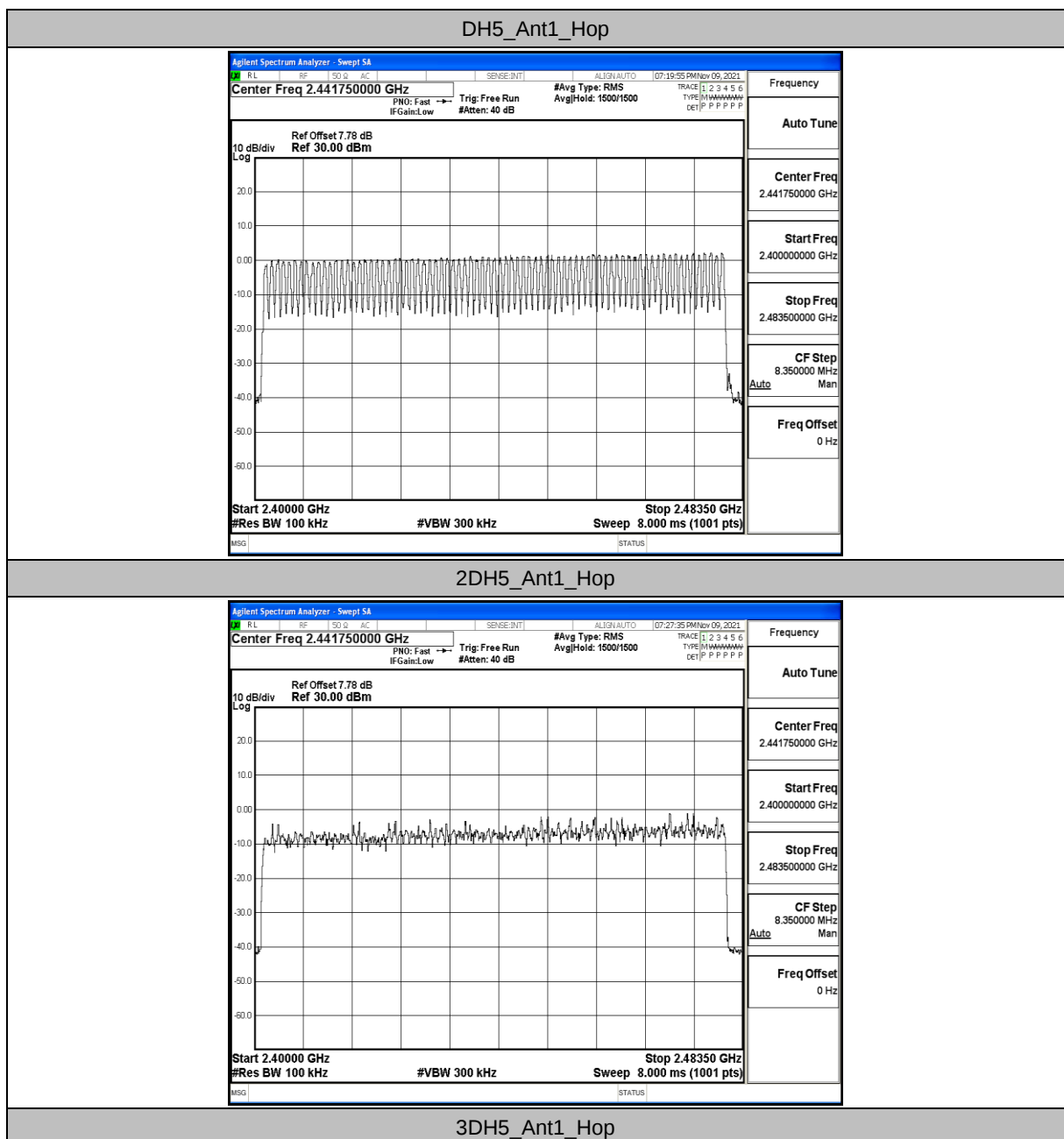


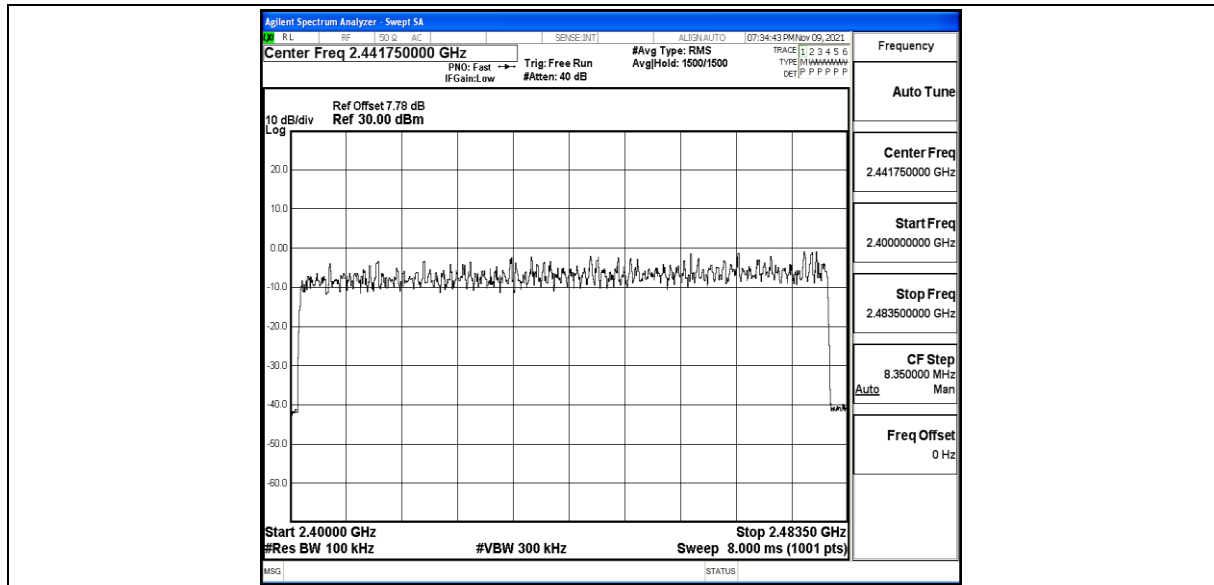
A.5 Number of hopping channels

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







A.6 Band edge measurements

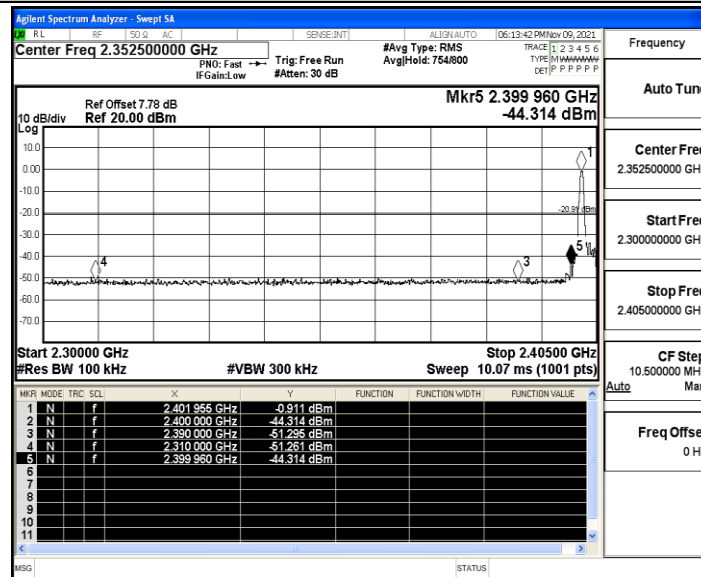
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.91	-44.31	≤ -20.91	PASS
		High	2480	2.40	-48.35	≤ -17.6	PASS
		Low	Hop_2402	-0.57	-49.44	≤ -20.57	PASS
		High	Hop_2480	2.24	-48.48	≤ -17.76	PASS
2DH5	Ant1	Low	2402	-4.94	-49.55	≤ -24.94	PASS
		High	2480	-1.04	-48.26	≤ -21.04	PASS
		Low	Hop_2402	-5.39	-49.52	≤ -25.39	PASS
		High	Hop_2480	-1.79	-48.55	≤ -21.79	PASS
3DH5	Ant1	Low	2402	-4.73	-49.78	≤ -24.73	PASS
		High	2480	-0.65	-48.67	≤ -20.65	PASS
		Low	Hop_2402	-7.18	-49.5	≤ -27.18	PASS
		High	Hop_2480	-2.19	-48.58	≤ -22.19	PASS

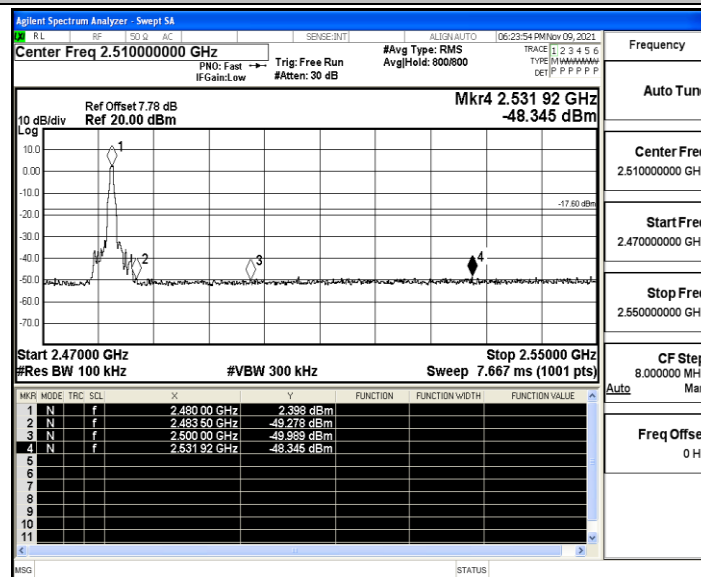


Test Graphs

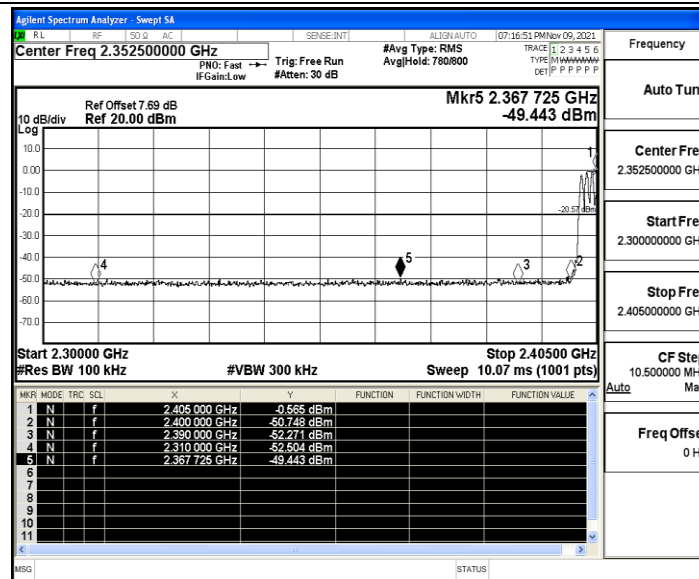
DH5_Ant1_Low_2402



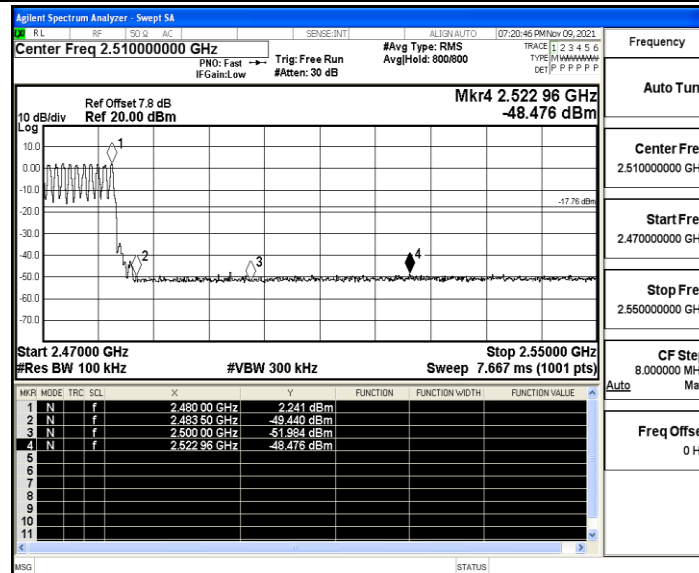
DH5_Ant1_High_2480



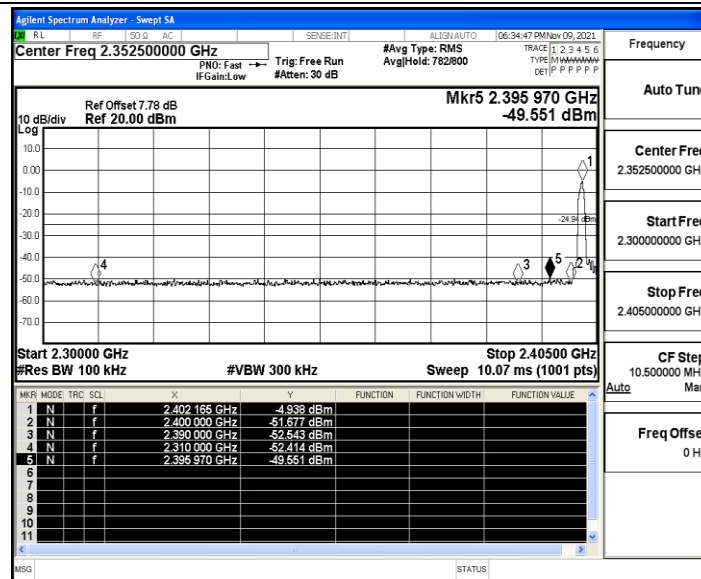
DH5_Ant1_Low_Hop_2402



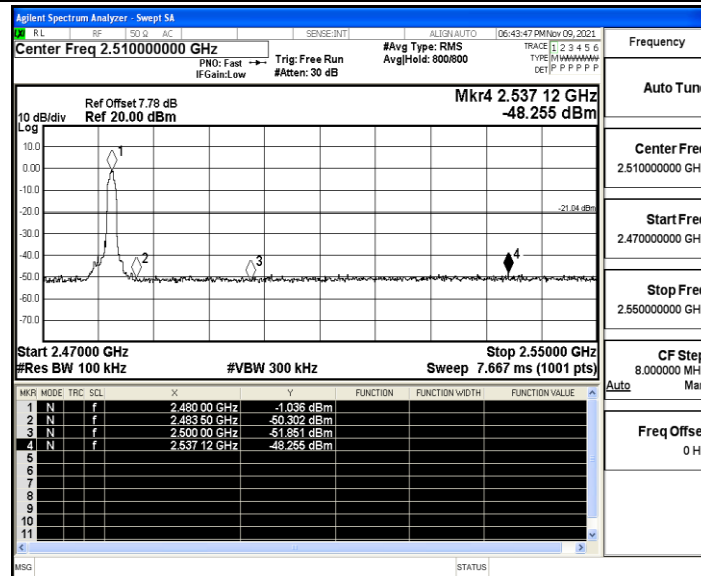
DH5_Ant1_High_Hop_2480



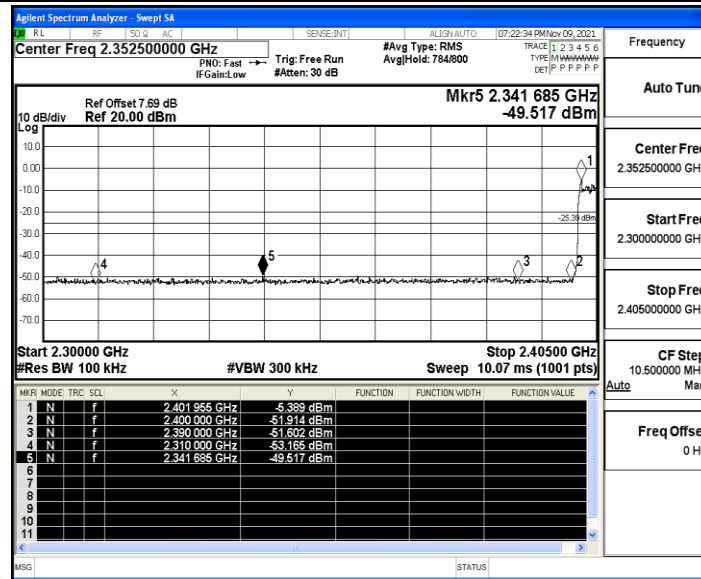
2DH5_Ant1_Low_2402



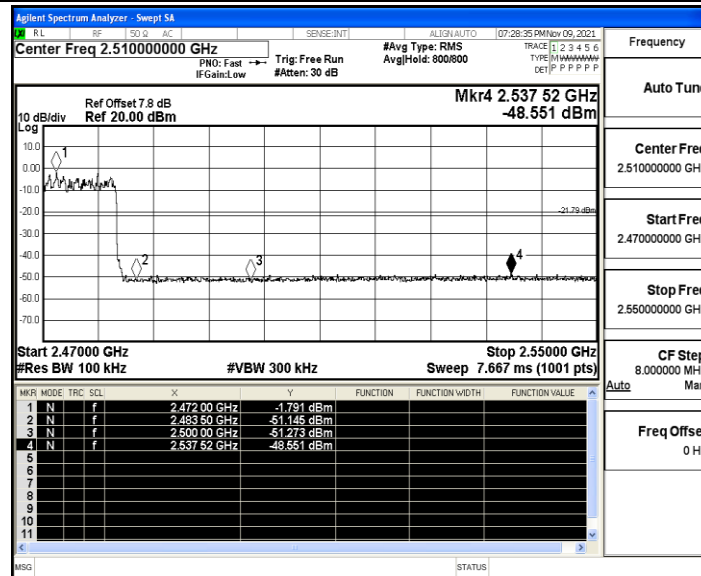
2DH5_Ant1_High_2480



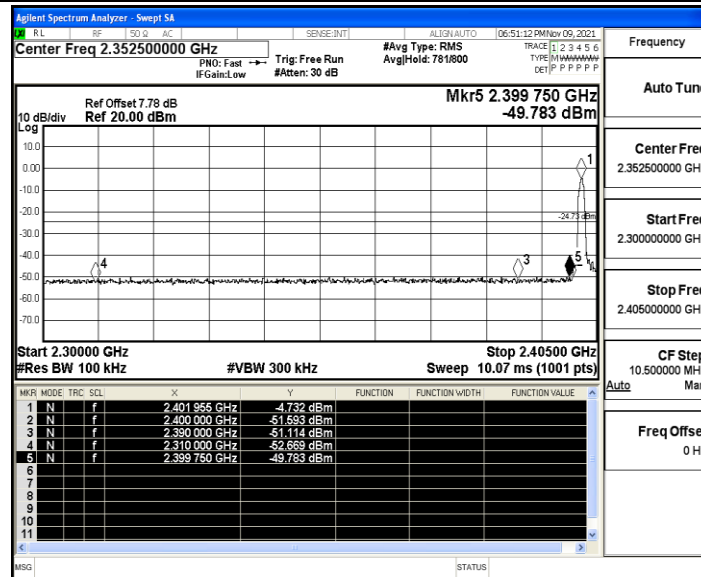
2DH5_Ant1_Low_Hop_2402



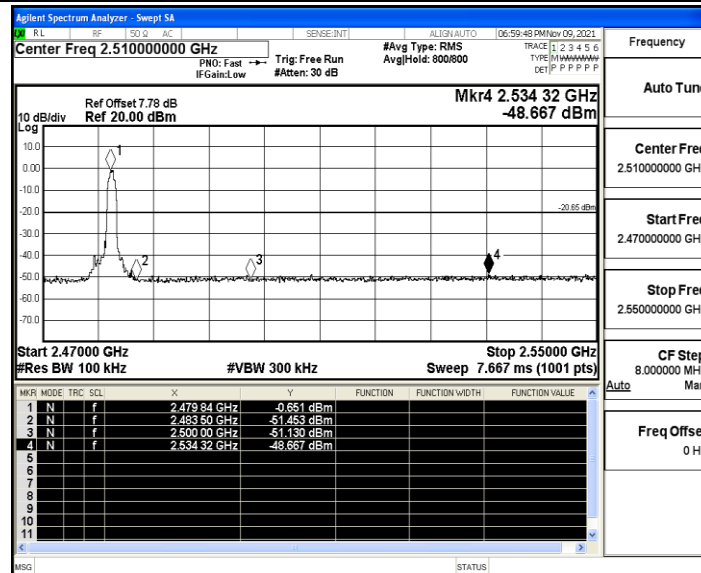
2DH5_Ant1_High_Hop_2480



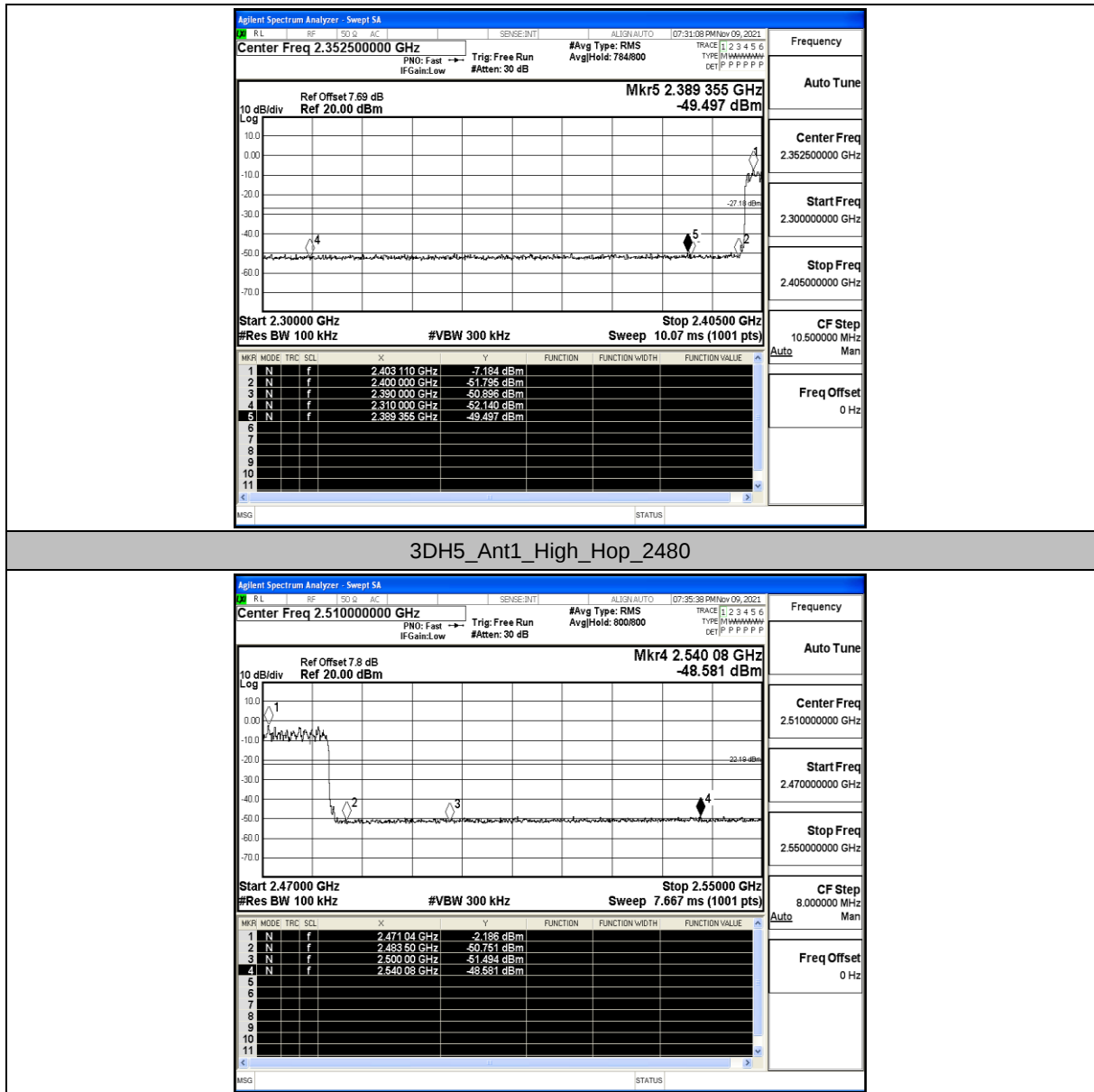
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402





A.7 Conducted Spurious Emission

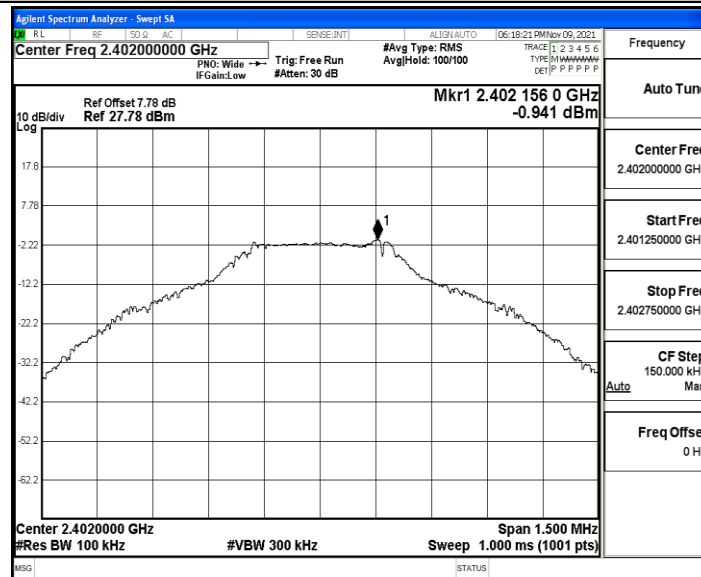
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-61.88	≤ -20.94	PASS
			1000~26500	-0.94	-46.82	≤ -20.94	PASS
		2441	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-61.29	≤ -18.68	PASS
			1000~26500	1.32	-47.9	≤ -18.68	PASS
		2480	Reference	1.69	1.69	---	PASS
			30~1000	1.69	-43.39	≤ -18.31	PASS
			1000~26500	1.69	-47.18	≤ -18.31	PASS
2DH5	Ant1	2402	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-52.19	≤ -24.79	PASS
			1000~26500	-4.79	-47.43	≤ -24.79	PASS
		2441	Reference	-2.85	-2.85	---	PASS
			30~1000	-2.85	-61.49	≤ -22.85	PASS
			1000~26500	-2.85	-47.55	≤ -22.85	PASS
		2480	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-61.87	≤ -20.95	PASS
			1000~26500	-0.95	-46.98	≤ -20.95	PASS
3DH5	Ant1	2402	Reference	-7.09	-7.09	---	PASS
			30~1000	-7.09	-62.22	≤ -27.09	PASS
			1000~26500	-7.09	-47.08	≤ -27.09	PASS
		2441	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-61.25	≤ -22.94	PASS
			1000~26500	-2.94	-46.62	≤ -22.94	PASS
		2480	Reference	-0.92	-0.92	---	PASS
			30~1000	-0.92	-61.22	≤ -20.92	PASS
			1000~26500	-0.92	-47.23	≤ -20.92	PASS

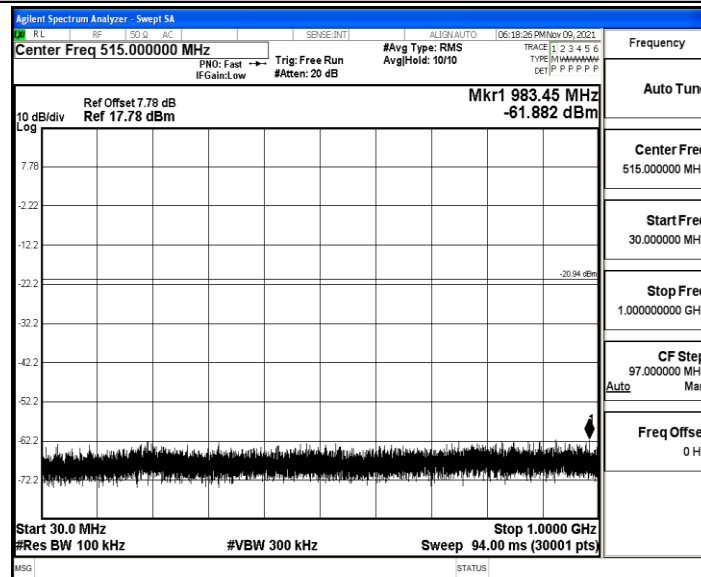


Test Graphs

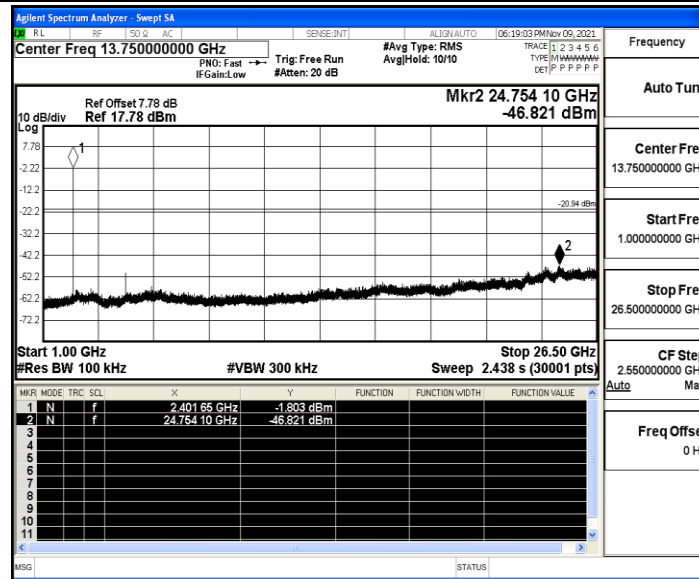
DH5_Ant1_2402_0~Reference



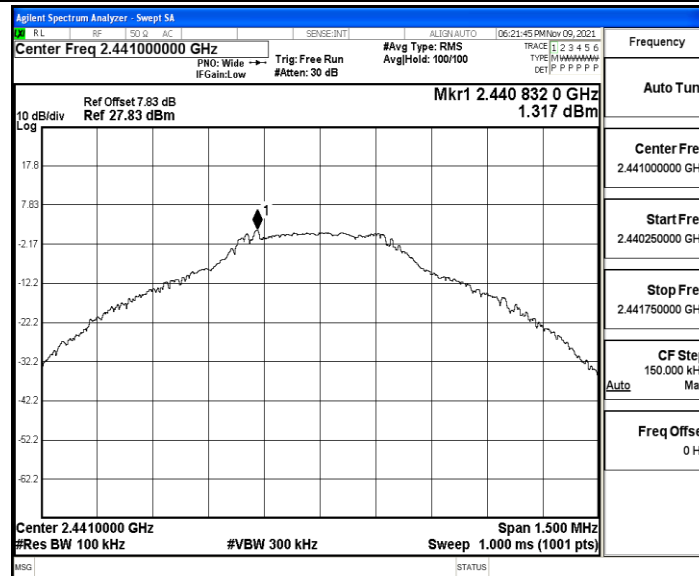
DH5_Ant1_2402_30~1000



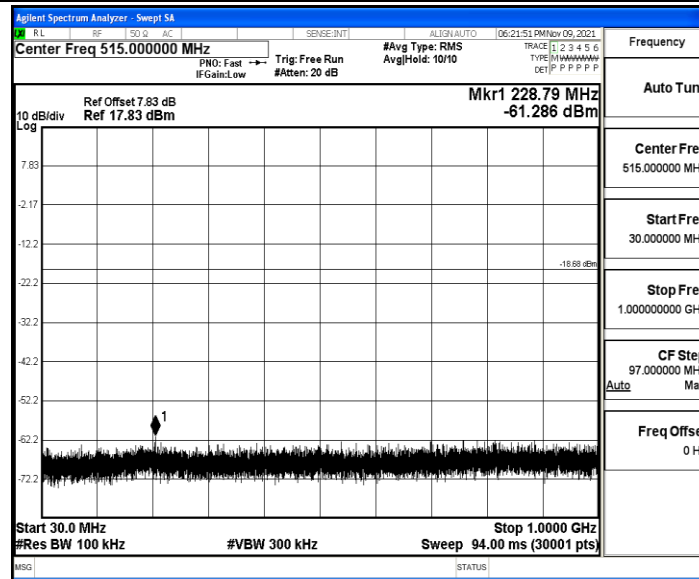
DH5_Ant1_2402_1000~26500



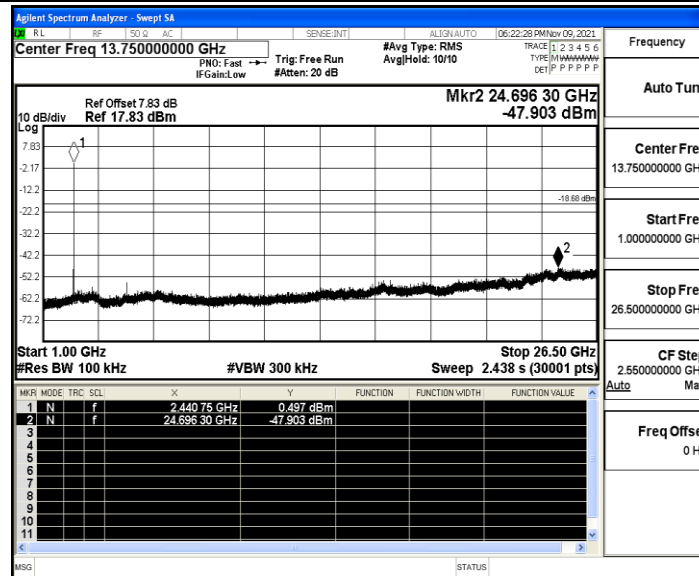
DH5_Ant1_2441_0~Reference



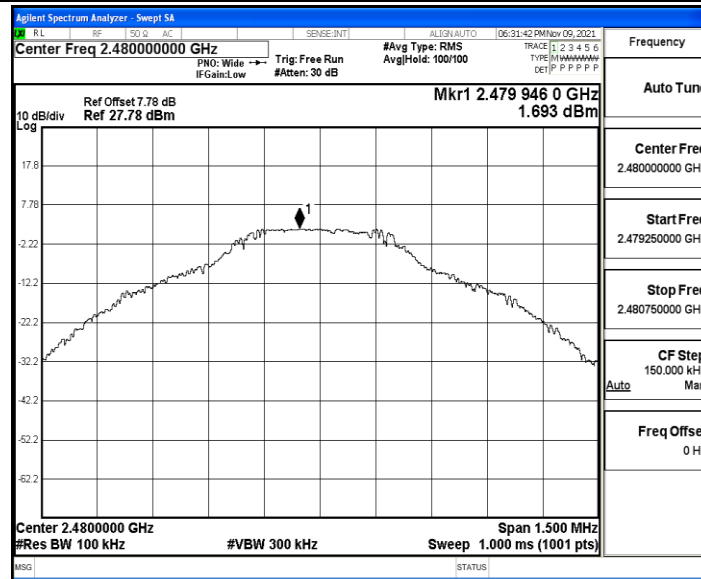
DH5_Ant1_2441_30~1000



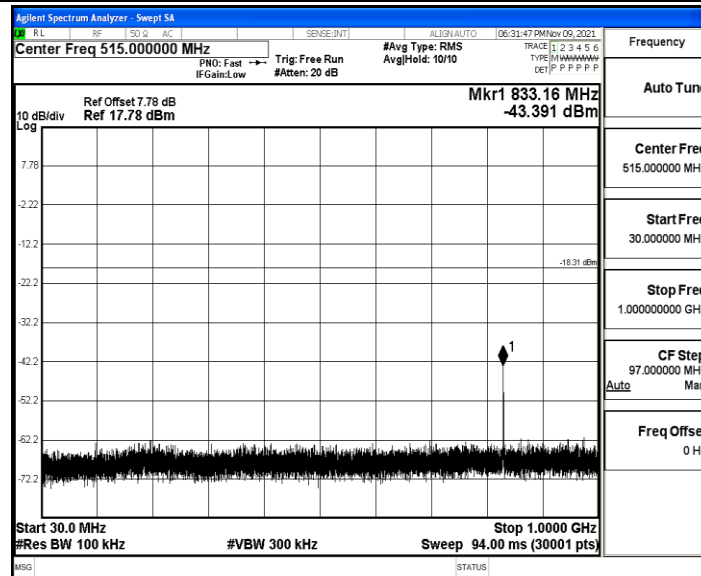
DH5_Ant1_2441_1000~26500



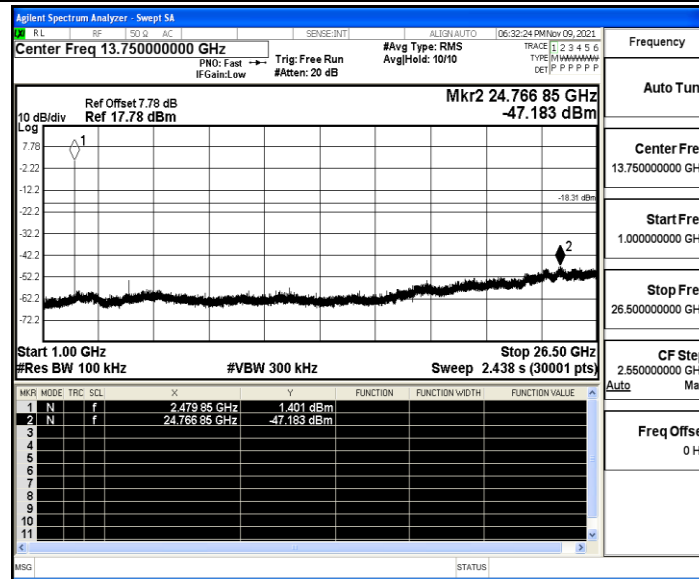
DH5_Ant1_2480_0~Reference



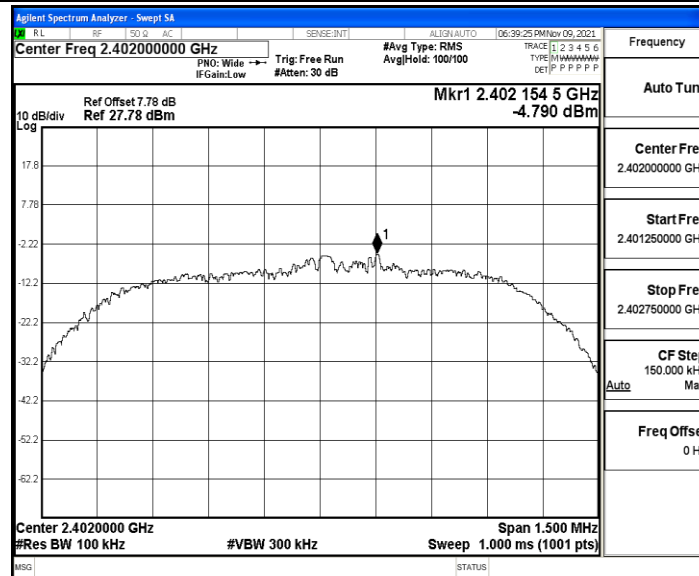
DH5_Ant1_2480_30~1000



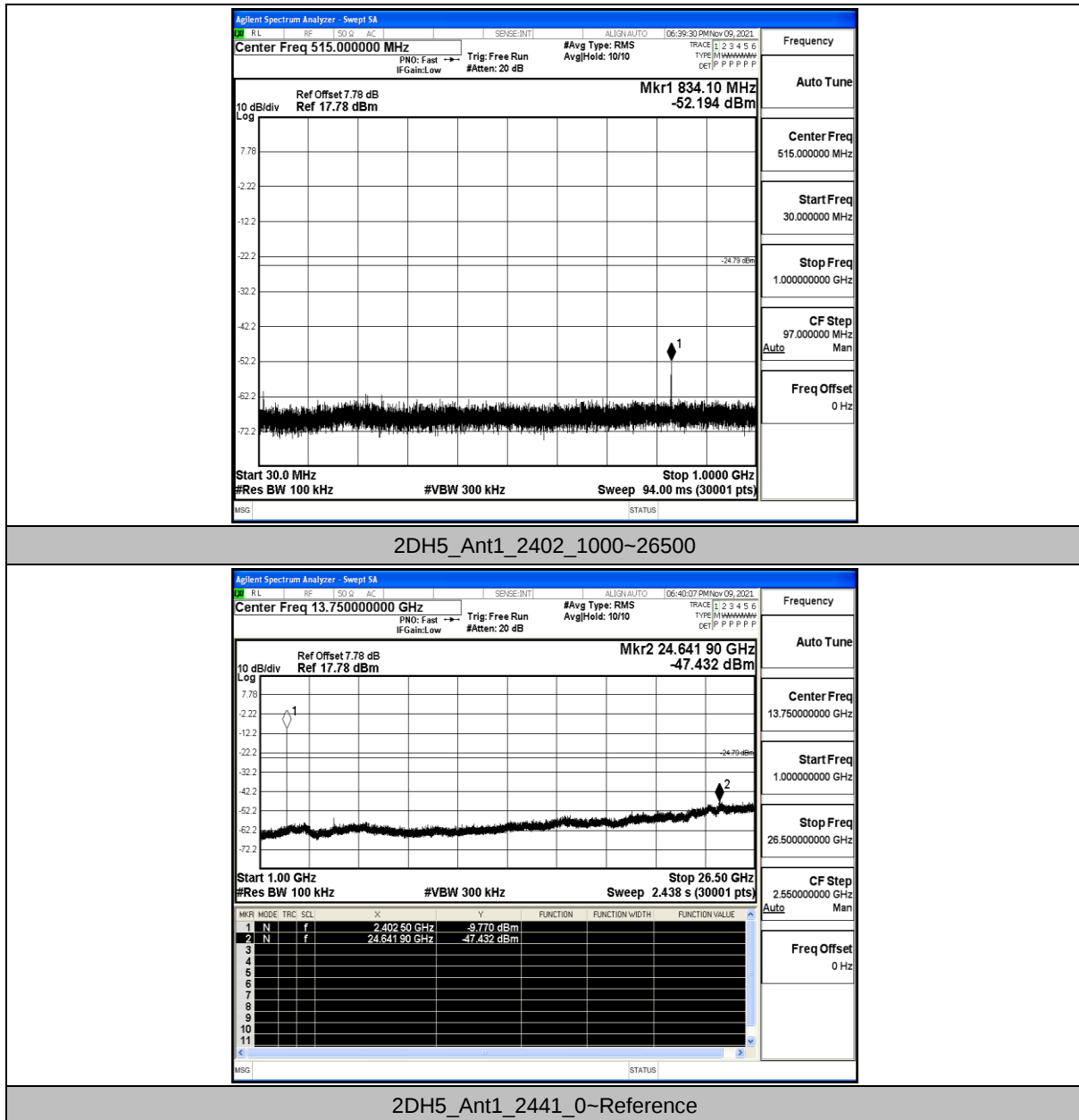
DH5_Ant1_2480_1000~26500

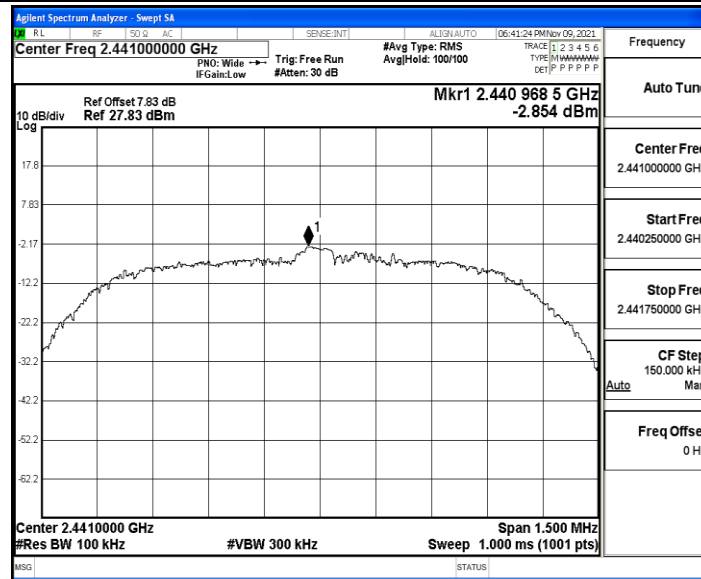


2DH5_Ant1_2402_0~Reference

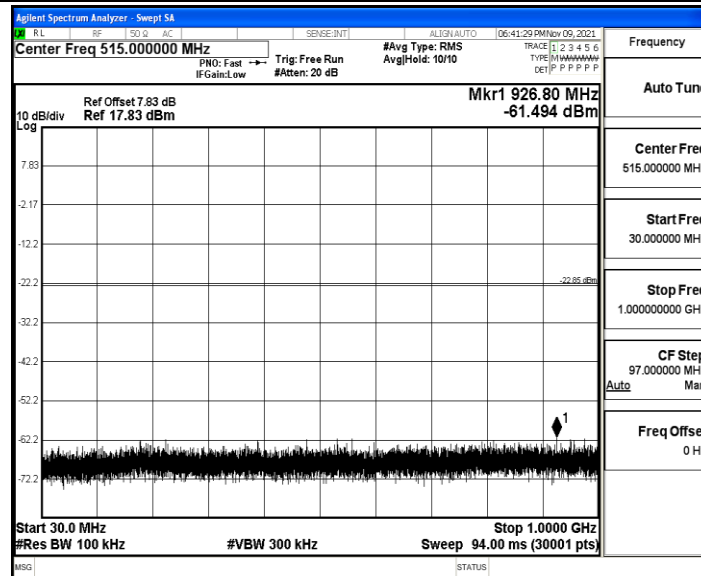


2DH5_Ant1_2402_30~1000

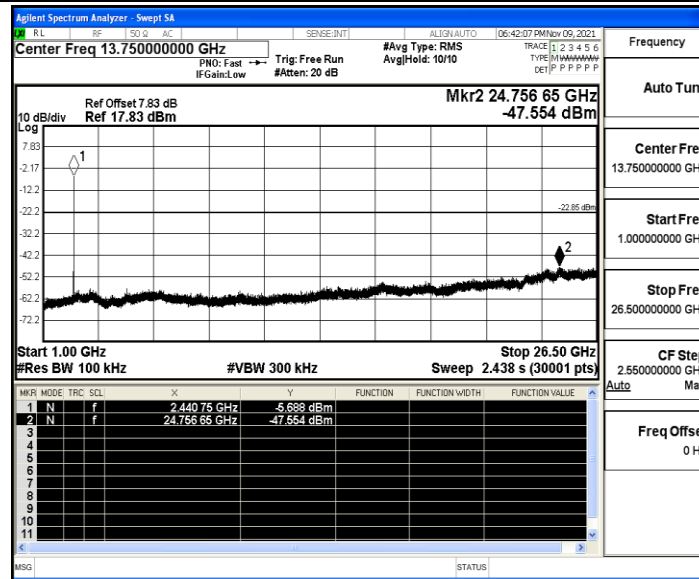




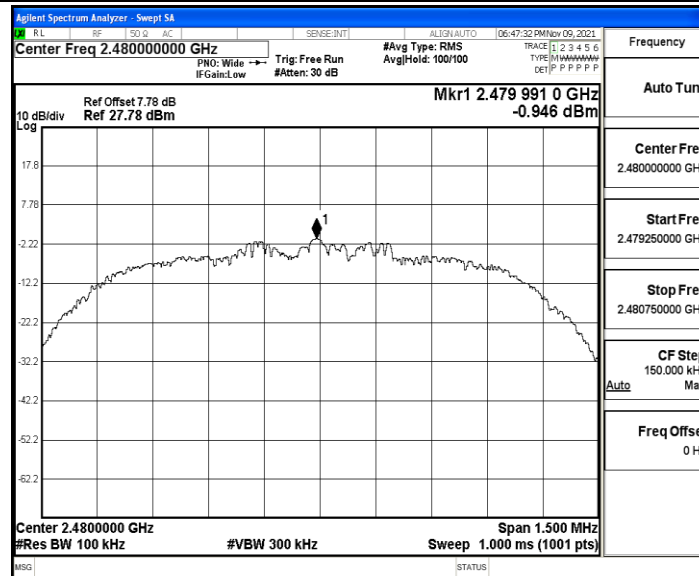
2DH5_Ant1_2441_30~1000



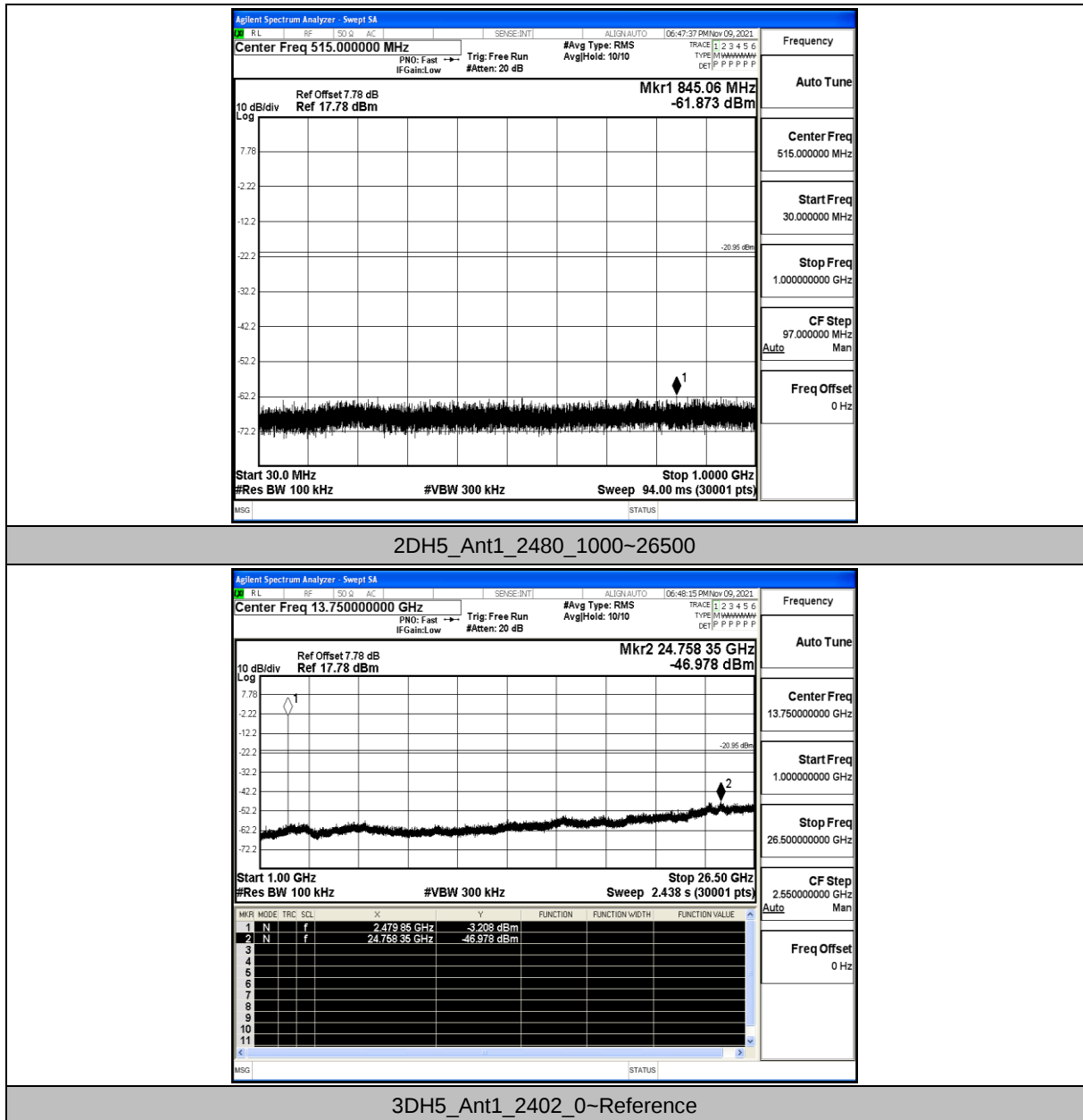
2DH5_Ant1_2441_1000~26500

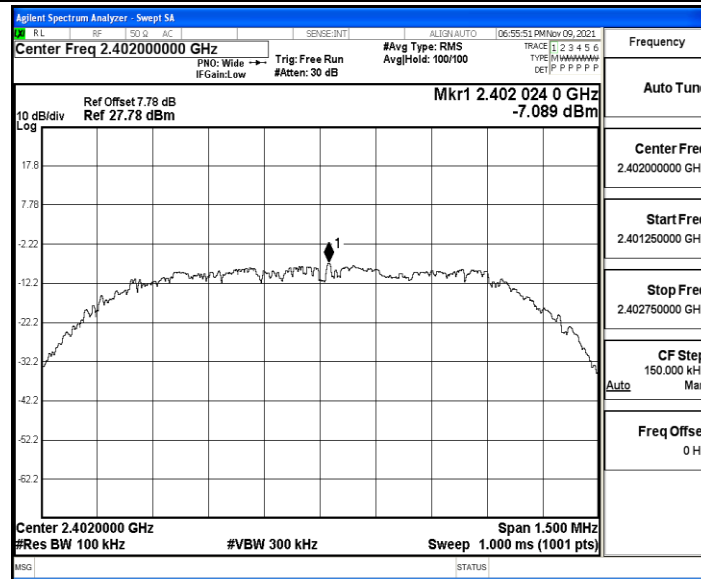


2DH5_Ant1_2480_0~Reference

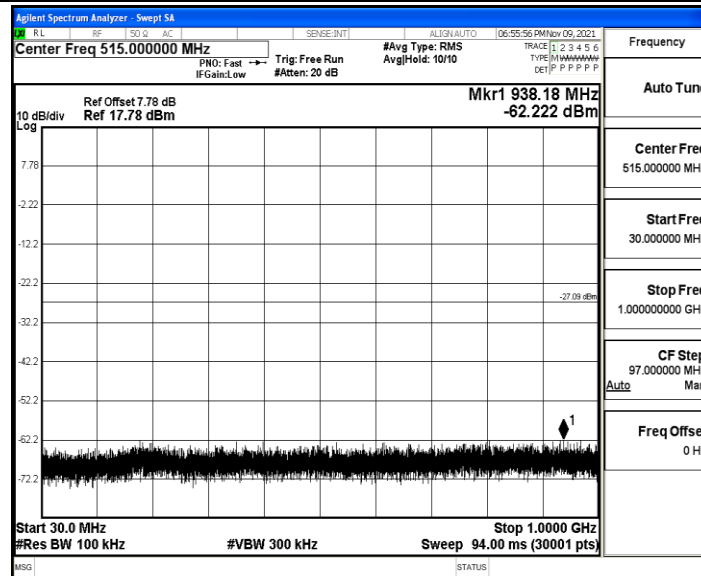


2DH5_Ant1_2480_30~1000

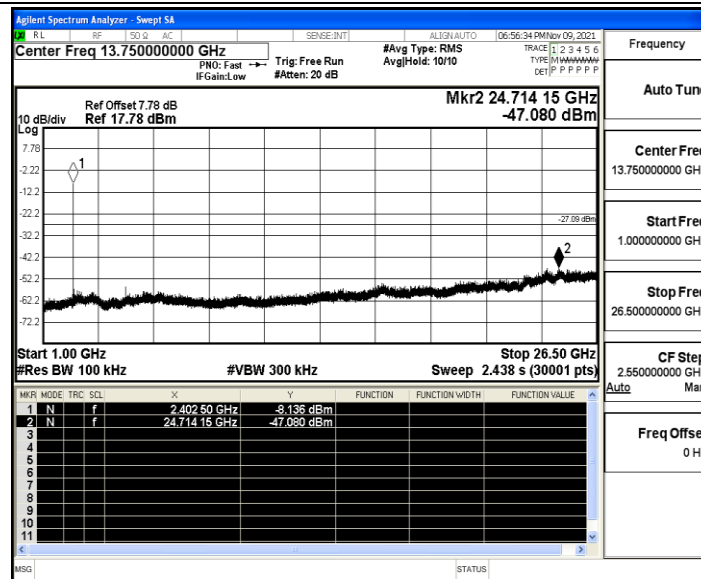




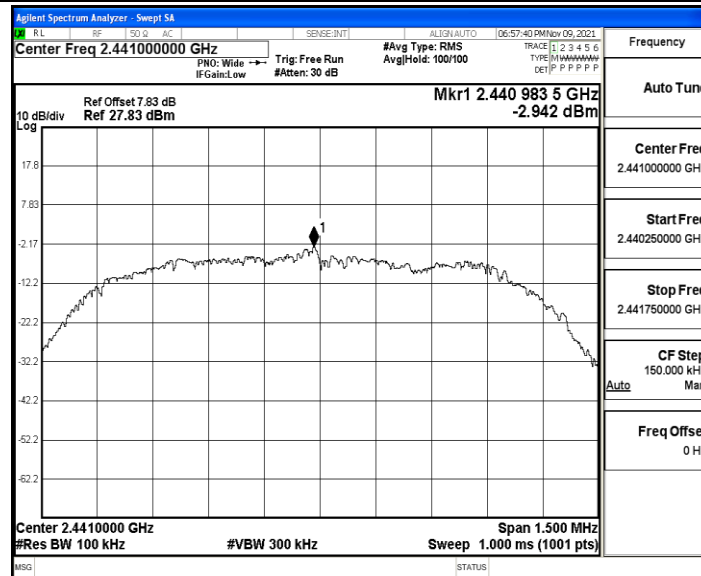
3DH5_Ant1_2402_30~1000



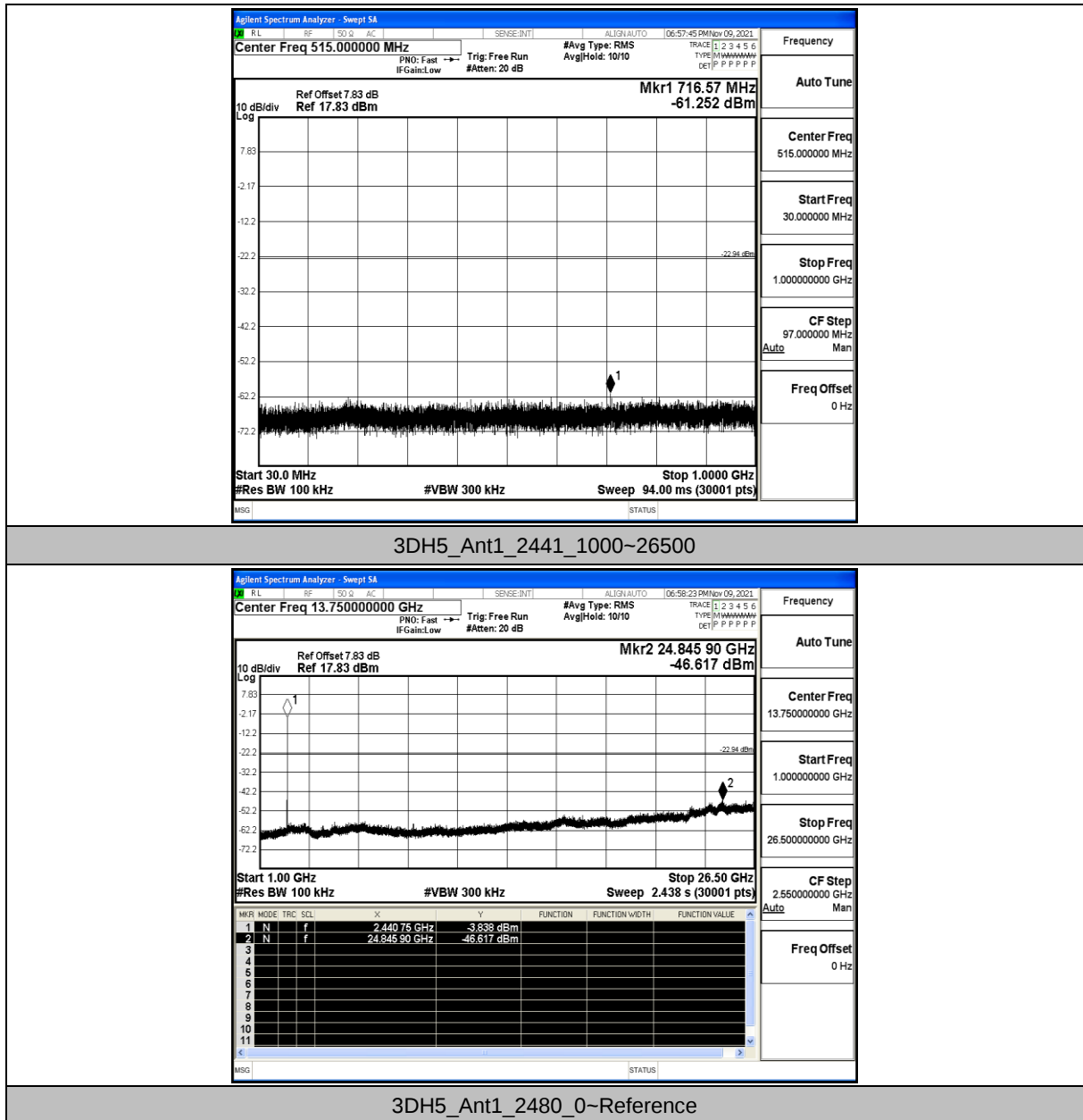
3DH5_Ant1_2402_1000~26500

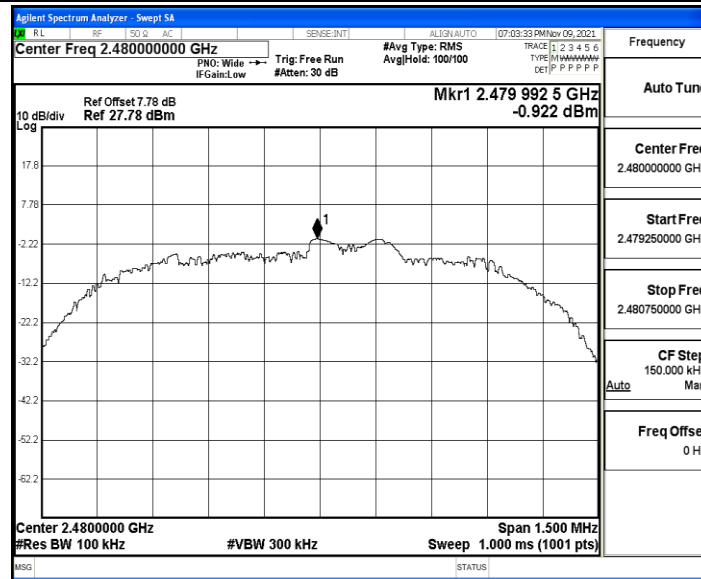


3DH5_Ant1_2441_0~Reference

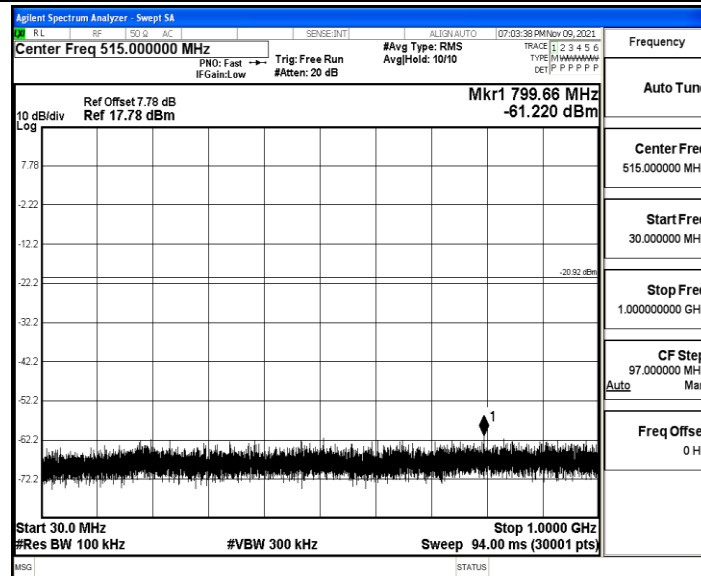


3DH5_Ant1_2441_30~1000

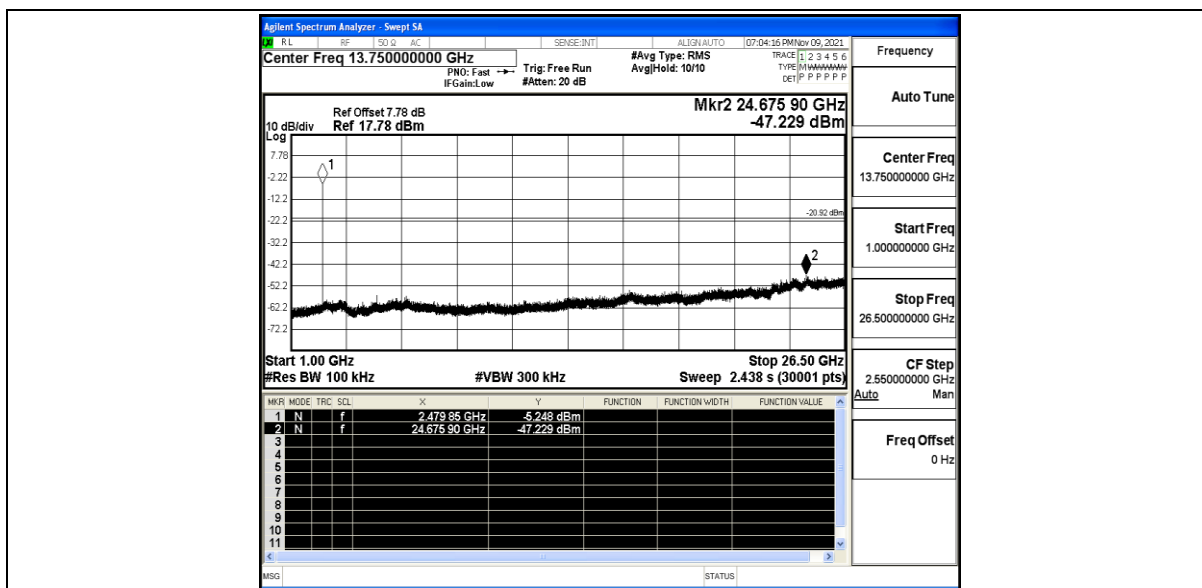




3DH5_Ant1_2480_30~1000



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	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2389.775	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2390.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2310.000	-41.2	≤-21.20	54.00	≤74	PASS
				Peak	2329.085	-38.36	≤-21.20	56.84	≤74	PASS
				Peak	2390.000	-39.6	≤-21.20	55.60	≤74	PASS
		High	2480	AV	2483.500	-43.69	≤-41.20	51.51	≤54	PASS
				AV	2483.520	-43.69	≤-41.20	51.51	≤54	PASS
				AV	2500.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2483.500	-36.44	≤-21.20	58.76	≤74	PASS
				Peak	2483.600	-36.34	≤-21.20	58.86	≤74	PASS
				Peak	2500.000	-39.94	≤-21.20	55.26	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-39.65	≤-21.20	55.55	≤74	PASS
				Peak	2319.950	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2390.000	-40.97	≤-21.20	54.23	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2497.600	-37.54	≤-21.20	57.66	≤74	PASS
				Peak	2500.000	-40.6	≤-21.20	54.60	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2389.775	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2390.000	-48.59	≤-41.20	46.61	≤54	PASS
				Peak	2310.000	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	2377.805	-38.26	≤-21.20	56.94	≤74	PASS
				Peak	2390.000	-39.76	≤-21.20	55.44	≤74	PASS
		High	2480	AV	2483.500	-47.35	≤-41.20	47.85	≤54	PASS
				AV	2483.520	-47.35	≤-41.20	47.85	≤54	PASS
				AV	2500.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	2483.500	-39.76	≤-21.20	55.44	≤74	PASS
				Peak	2486.880	-37.79	≤-21.20	57.41	≤74	PASS
				Peak	2500.000	-39.25	≤-21.20	55.95	≤74	PASS
		Low	Hop_240 2	Peak	2310.000	-40.21	≤-21.20	54.99	≤74	PASS
				Peak	2370.560	-37.34	≤-21.20	57.86	≤74	PASS
				Peak	2390.000	-40.85	≤-21.20	54.35	≤74	PASS
		High	Hop_248 0	Peak	2483.500	-40.07	≤-21.20	55.13	≤74	PASS
				Peak	2486.960	-38.01	≤-21.20	57.19	≤74	PASS
				Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS



3DH5	Ant1	Low	2402	AV	2310.000	-48.89	≤-41.20	46.31	≤54	PASS
				AV	2387.045	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2390.000	-48.48	≤-41.20	46.72	≤54	PASS
				Peak	2310.000	-38.86	≤-21.20	56.34	≤74	PASS
				Peak	2364.680	-38	≤-21.20	57.20	≤74	PASS
				Peak	2390.000	-40.34	≤-21.20	54.86	≤74	PASS
		High	2480	AV	2483.500	-47.42	≤-41.20	47.78	≤54	PASS
				AV	2483.520	-47.42	≤-41.20	47.78	≤54	PASS
				AV	2500.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2483.500	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	2498.800	-38.08	≤-21.20	57.12	≤74	PASS
				Peak	2500.000	-39.47	≤-21.20	55.73	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-41.11	≤-21.20	54.09	≤74	PASS
				Peak	2388.410	-37.55	≤-21.20	57.65	≤74	PASS
				Peak	2390.000	-40.53	≤-21.20	54.67	≤74	PASS
		High	Hop_2480	Peak	2483.500	-39.8	≤-21.20	55.40	≤74	PASS
				Peak	2496.720	-37.47	≤-21.20	57.73	≤74	PASS
				Peak	2500.000	-40.86	≤-21.20	54.34	≤74	PASS

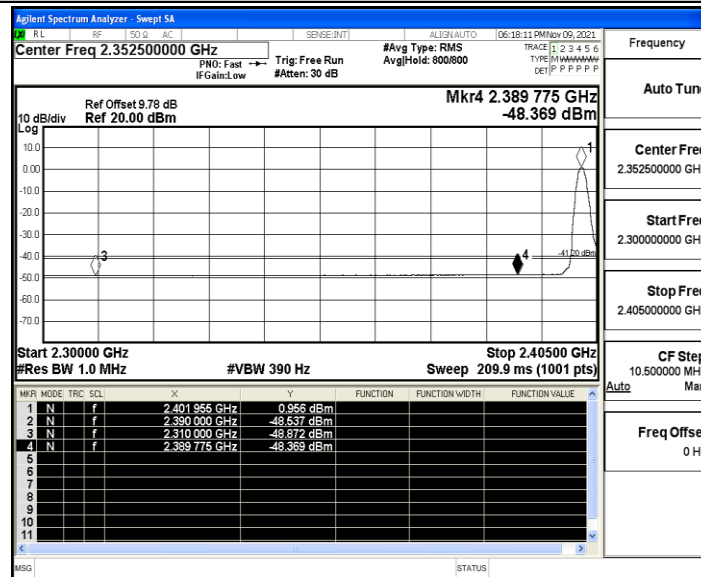
Note:

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.

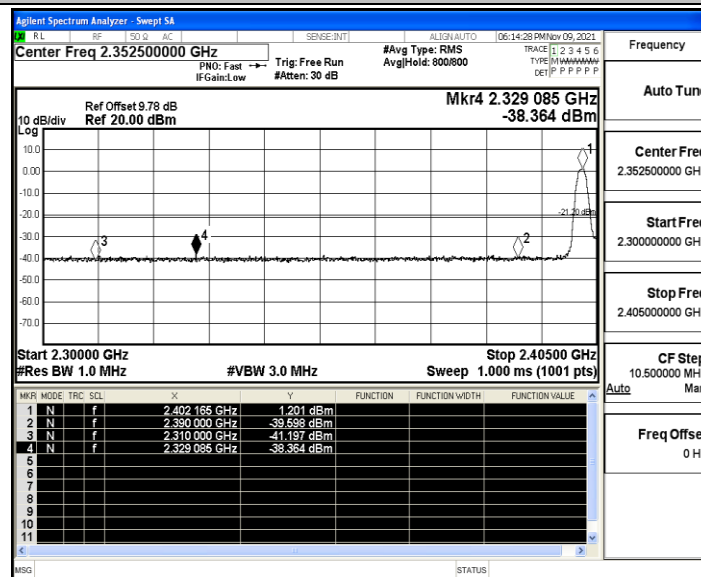


Test Graphs

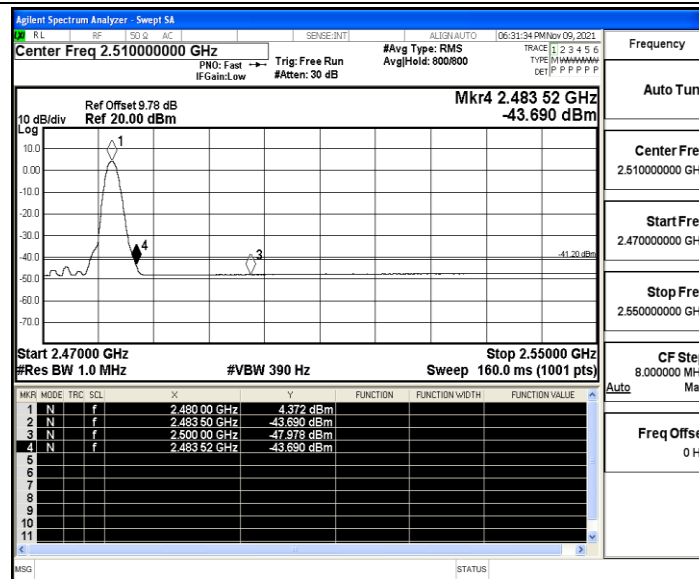
DH5_Ant1_Low_2402_AV



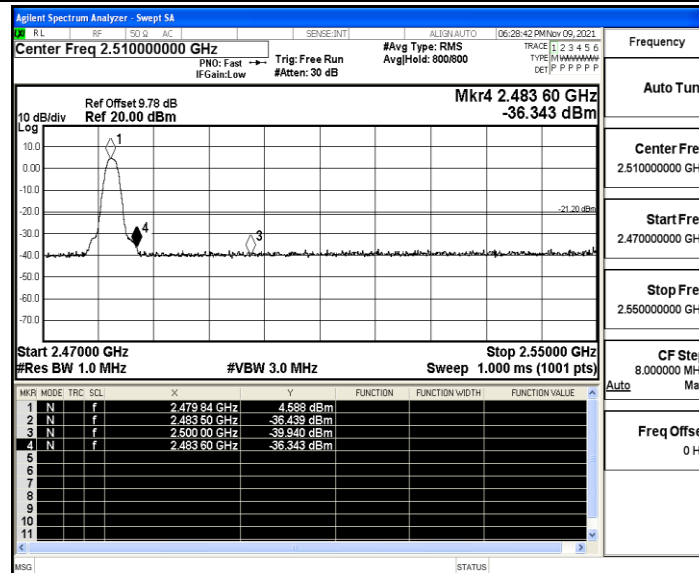
DH5_Ant1_Low_2402_Peak



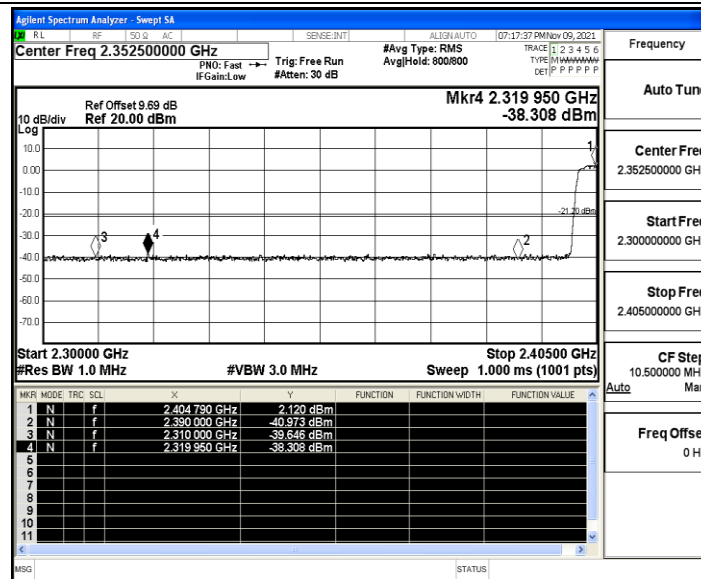
DH5_Ant1_High_2480_AV



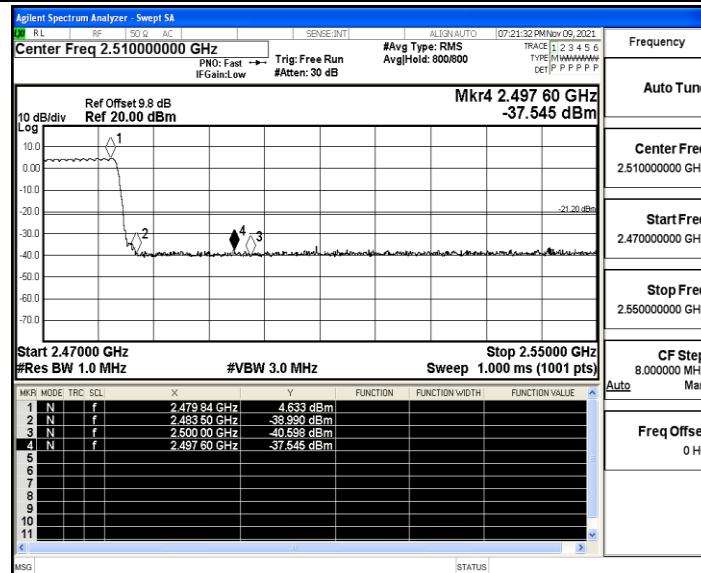
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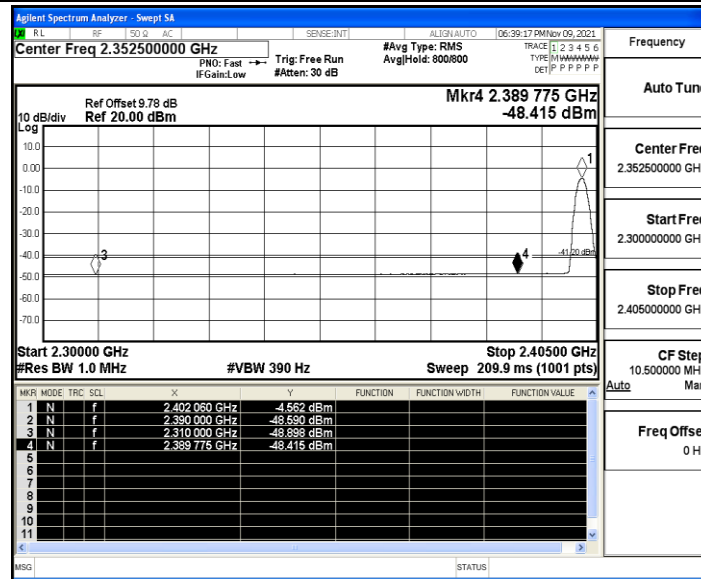
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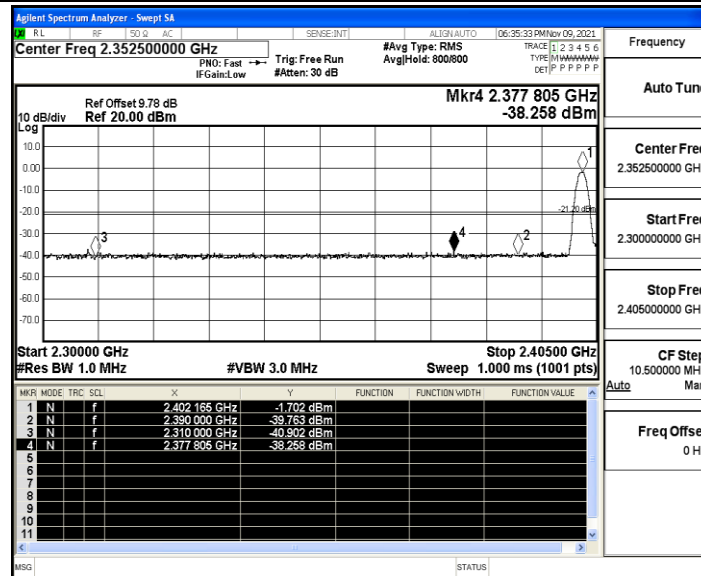
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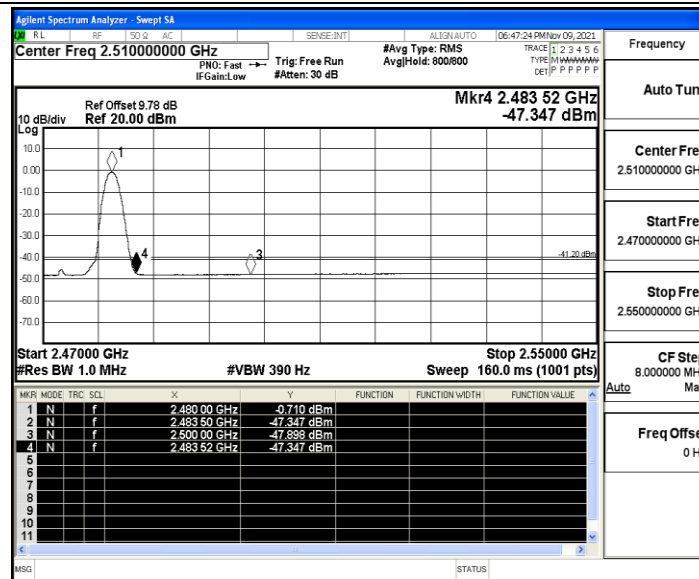
2DH5_Ant1_Low_2402_AV



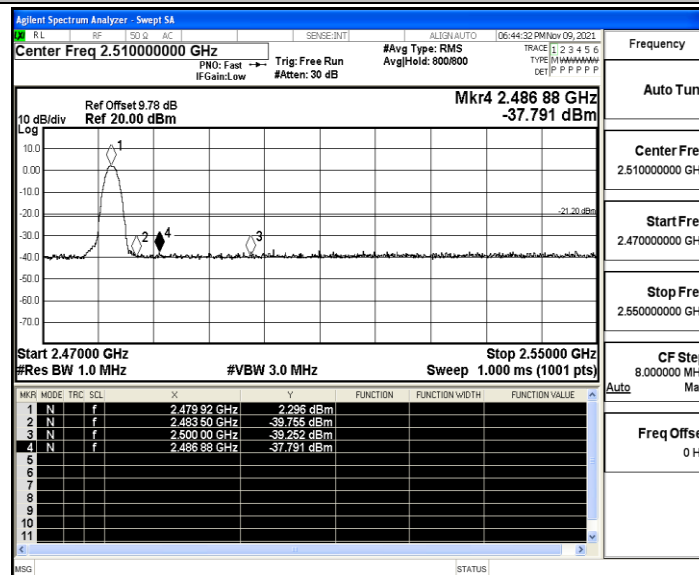
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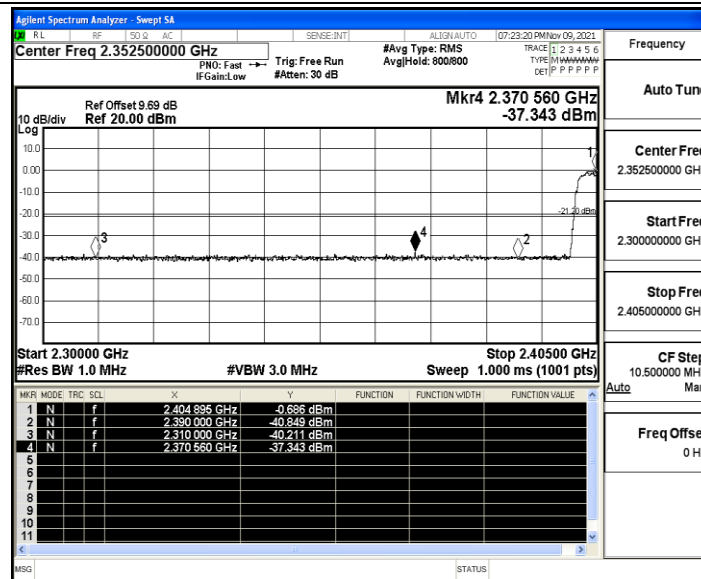
2DH5_Ant1_High_2480_AV



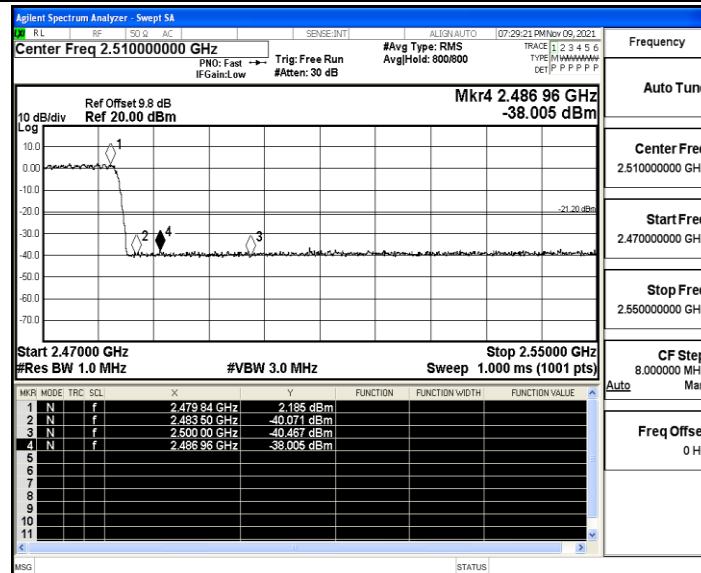
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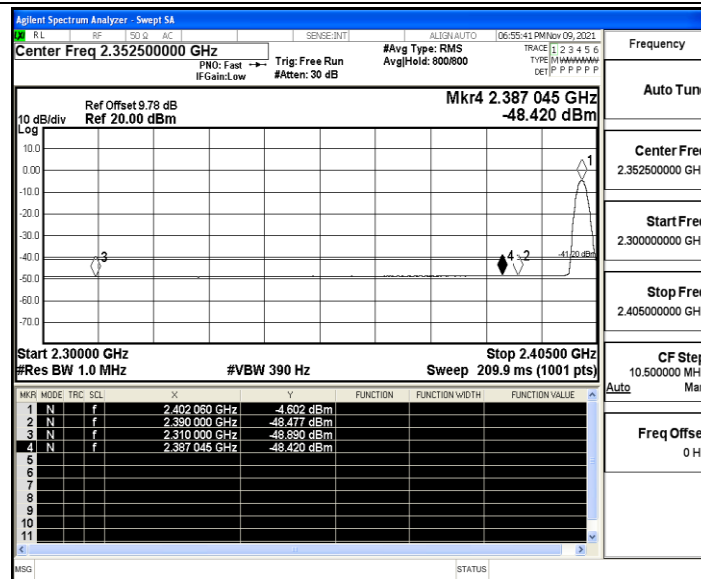
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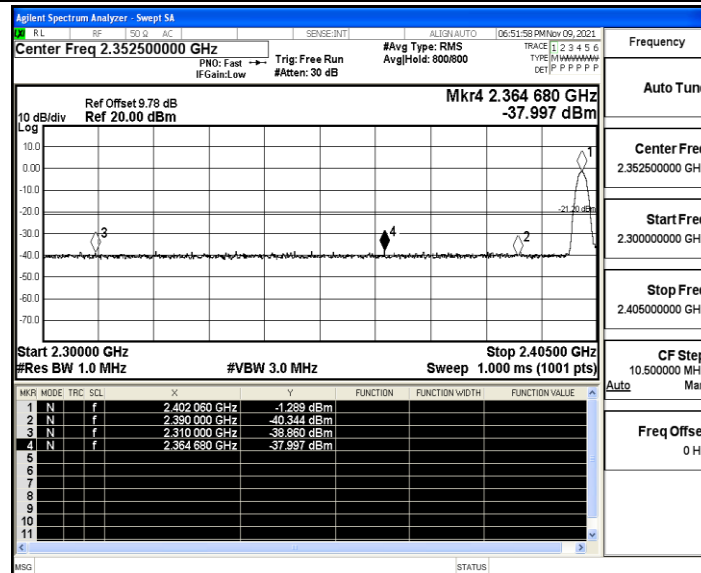
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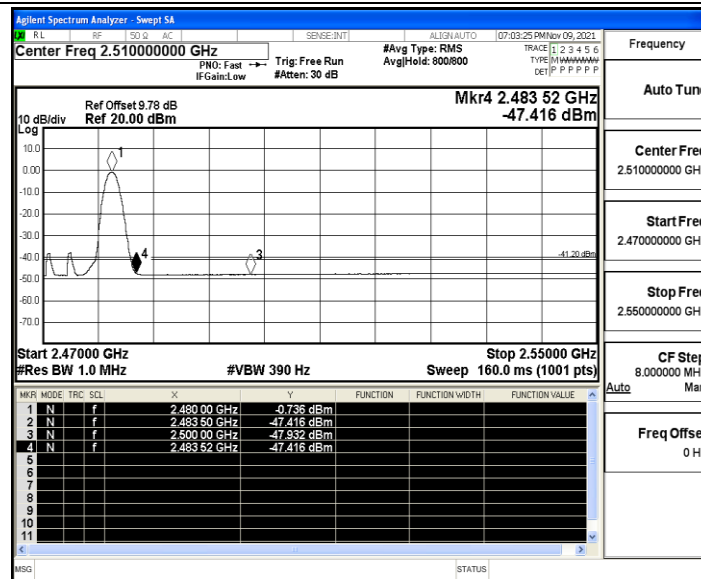
3DH5_Ant1_Low_2402_AV



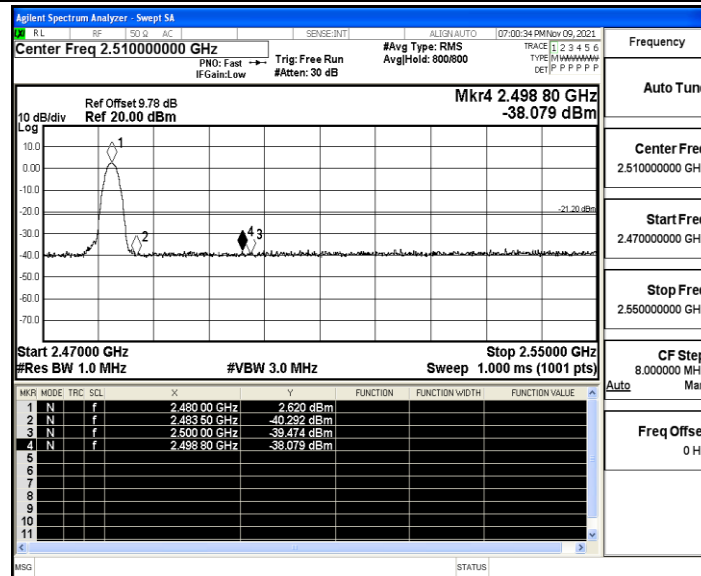
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

