

Case No. : <u>GTS20250516011-2-08</u>	
Ambient Condition: <u>22</u> °C, <u>51</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.6.13-2025.7.8</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.921	2401.538	2402.459	---	---
		2441	1.005	2440.508	2441.513	---	---
		2480	1.032	2479.466	2480.498	---	---
2DH1	Ant1	2402	1.365	2401.313	2402.678	---	---
		2441	1.344	2440.334	2441.678	---	---
		2480	1.350	2479.322	2480.672	---	---
3DH1	Ant1	2402	1.359	2401.316	2402.675	---	---
		2441	1.356	2440.319	2441.675	---	---
		2480	1.359	2479.316	2480.675	---	---

Test Graphs

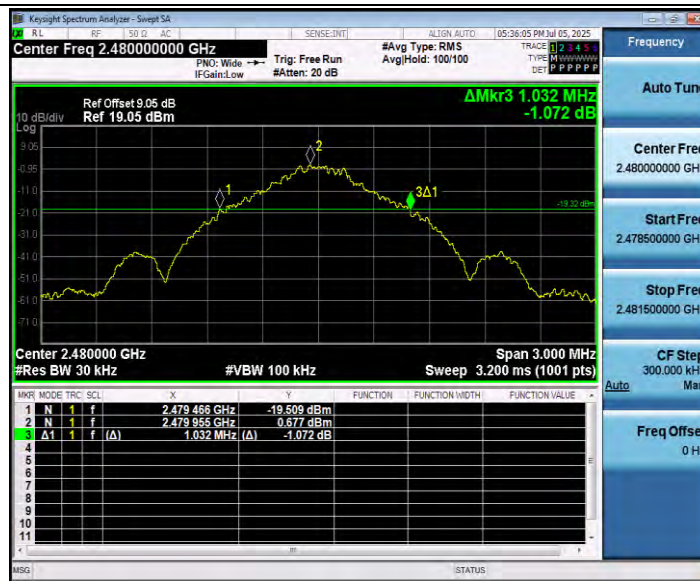
DH1_Ant1_2402



DH1_Ant1_2441



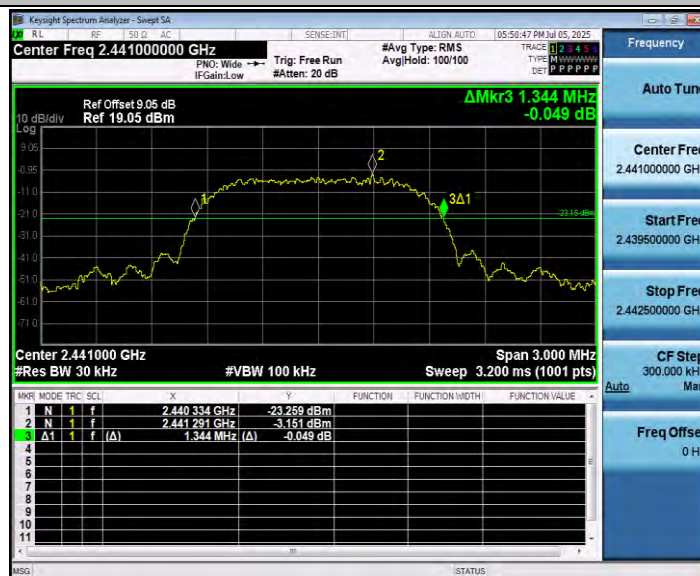
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



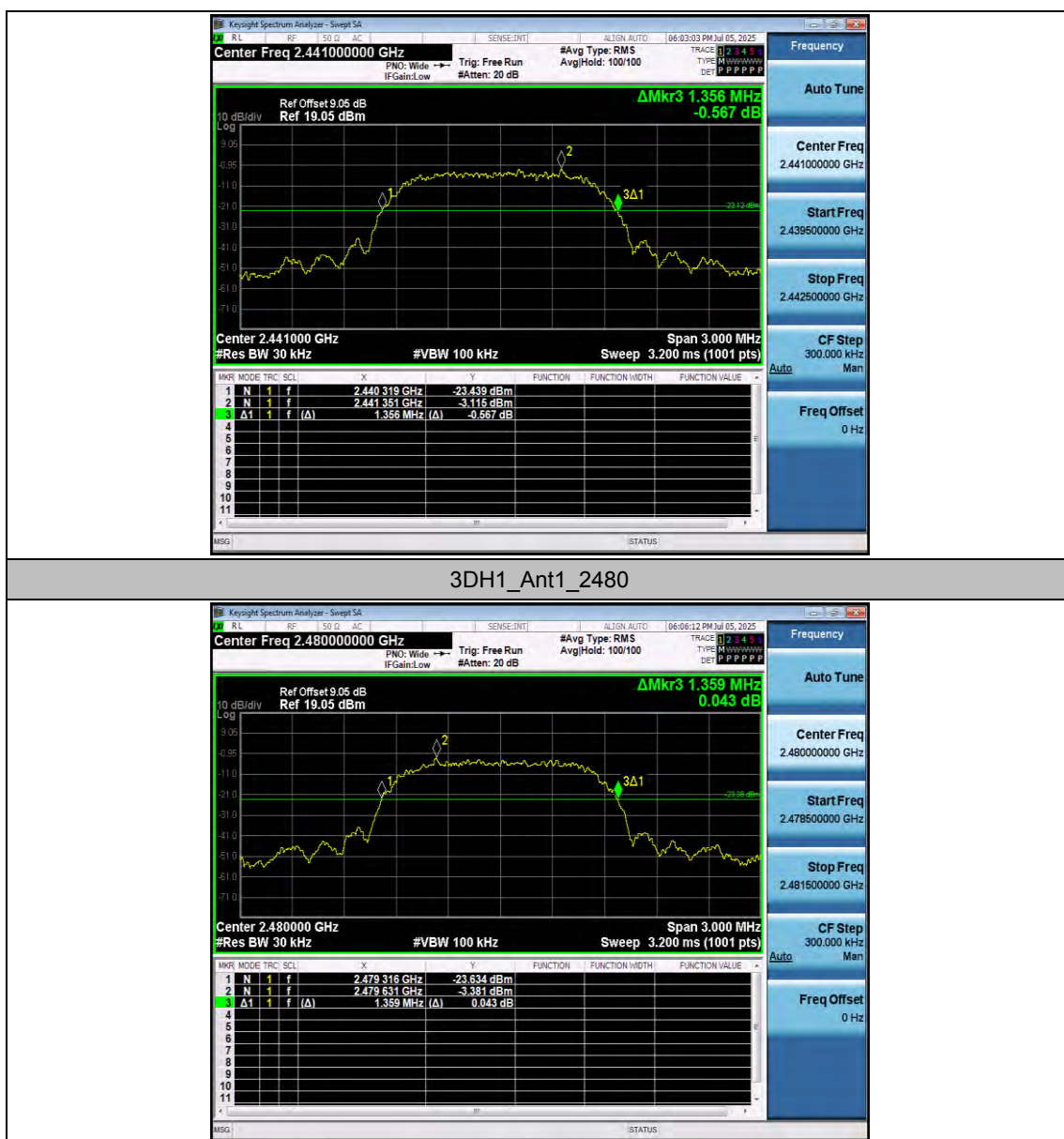
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.89656	2401.5464	2402.4429	---	---
		2441	0.90783	2440.5499	2441.4577	---	---
		2480	0.88925	2479.5547	2480.4439	---	---
2DH1	Ant1	2402	1.1994	2401.3990	2402.5984	---	---
		2441	1.1969	2440.4004	2441.5973	---	---
		2480	1.2019	2479.3963	2480.5982	---	---
3DH1	Ant1	2402	1.1975	2401.3992	2402.5967	---	---
		2441	1.1927	2440.4018	2441.5945	---	---
		2480	1.1973	2479.3973	2480.5946	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



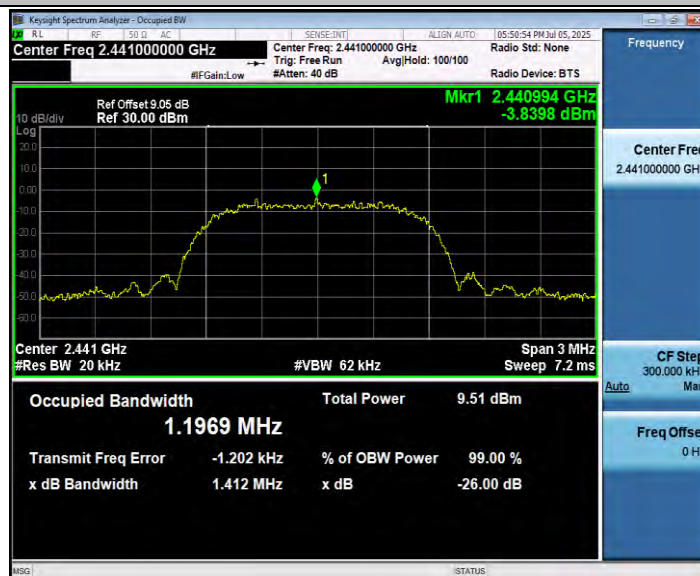
DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



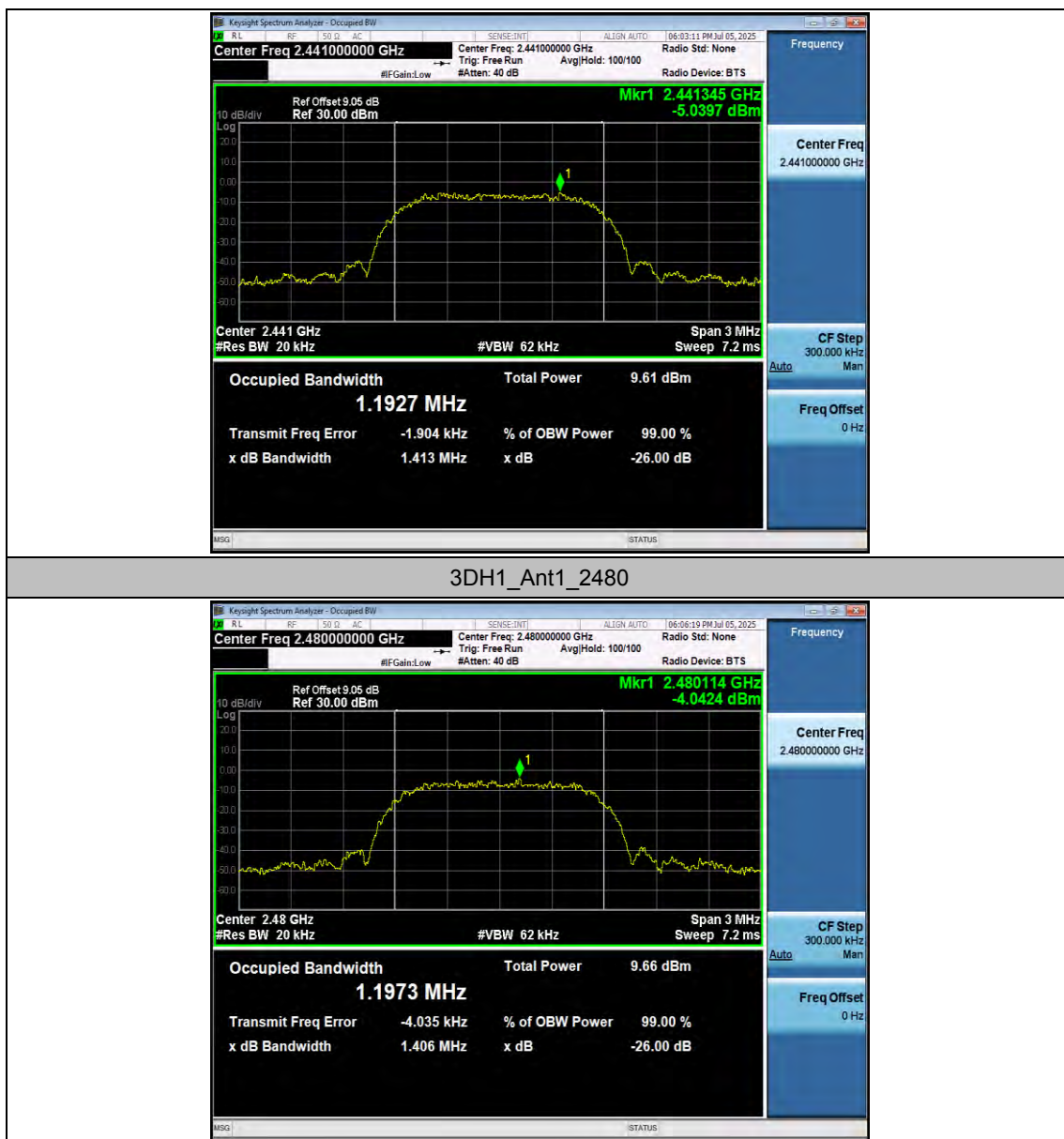
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



Appendix A.3: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	2.31	≤20.97	PASS
		2441	3.28	≤20.97	PASS
		2480	3.78	≤20.97	PASS
2DH1	Ant1	2402	4.63	≤20.97	PASS
		2441	5.50	≤20.97	PASS
		2480	6.25	≤20.97	PASS
3DH1	Ant1	2402	4.68	≤20.97	PASS
		2441	6.06	≤20.97	PASS
		2480	6.12	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.178	≥ 0.688	PASS
		Hop_2441	1.02	≥ 0.688	PASS
		Hop_2480	0.83	≥ 0.688	PASS
2DH1	Ant1	Hop_2402	0.976	≥ 0.910	PASS
		Hop_2441	1.02	≥ 0.910	PASS
		Hop_2480	1.022	≥ 0.910	PASS
3DH1	Ant1	Hop_2402	1.172	≥ 0.906	PASS
		Hop_2441	1.176	≥ 0.906	PASS
		Hop_2480	1.002	≥ 0.906	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



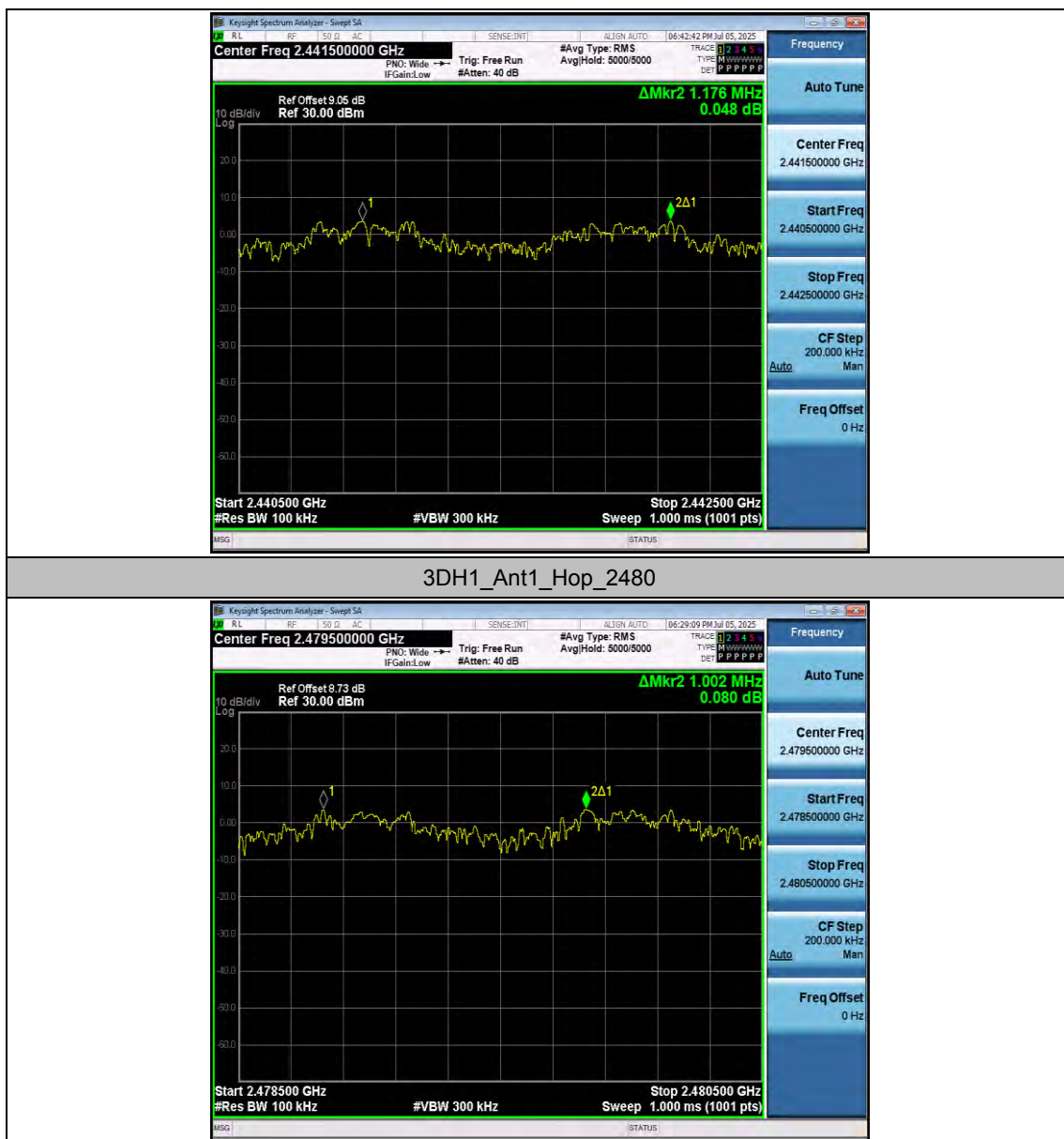
2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441

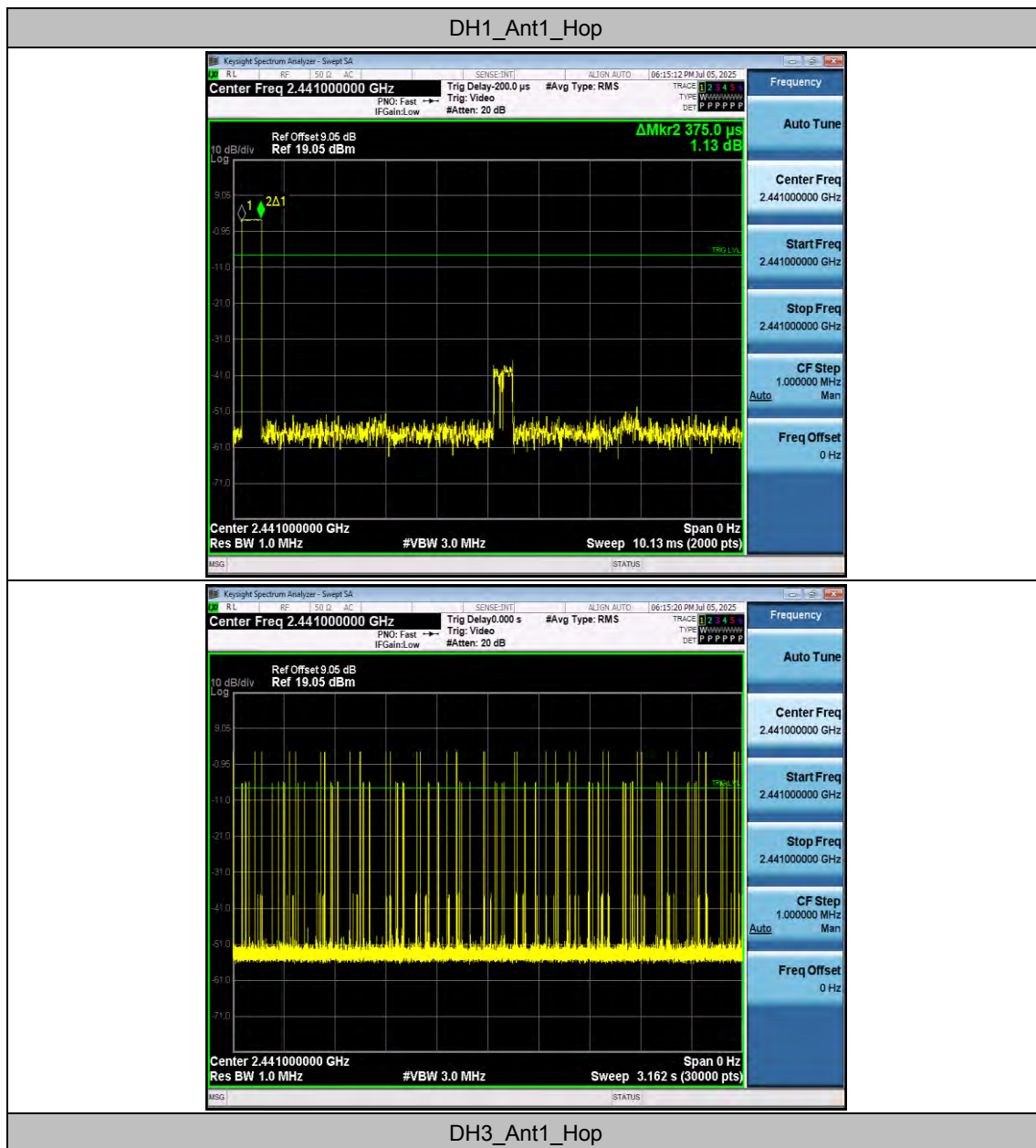


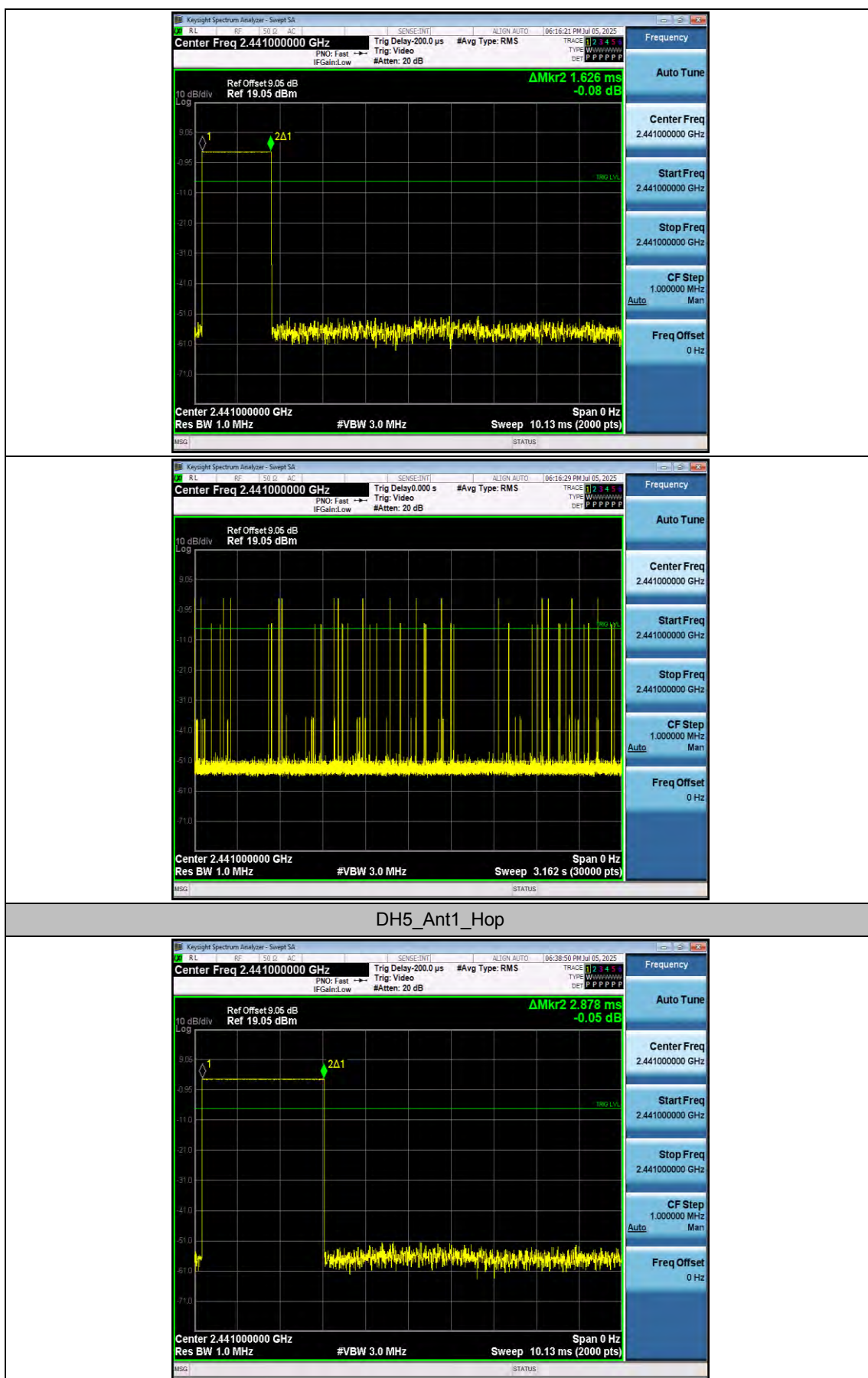
Appendix A.5: Time of occupancy

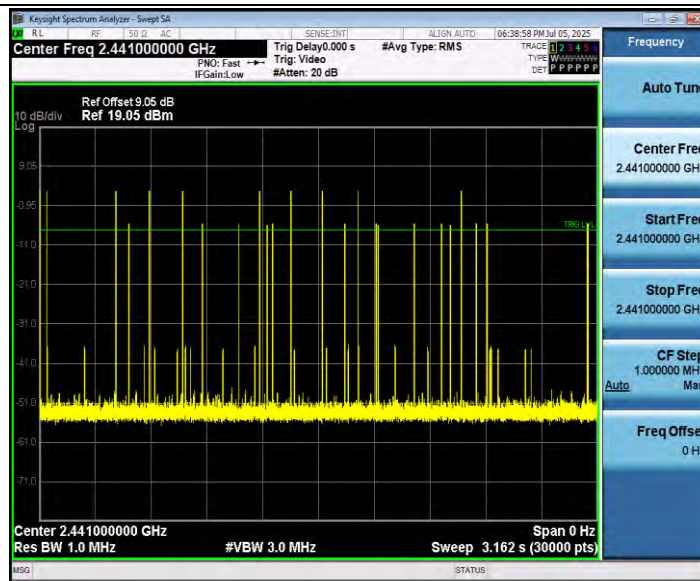
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.362	330	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.626	110	0.179	≤0.4	PASS
2DH5	Ant1	Hop	2.878	70	0.201	≤0.4	PASS
3DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
3DH3	Ant1	Hop	1.626	100	0.163	≤0.4	PASS
3DH5	Ant1	Hop	2.873	70	0.201	≤0.4	PASS

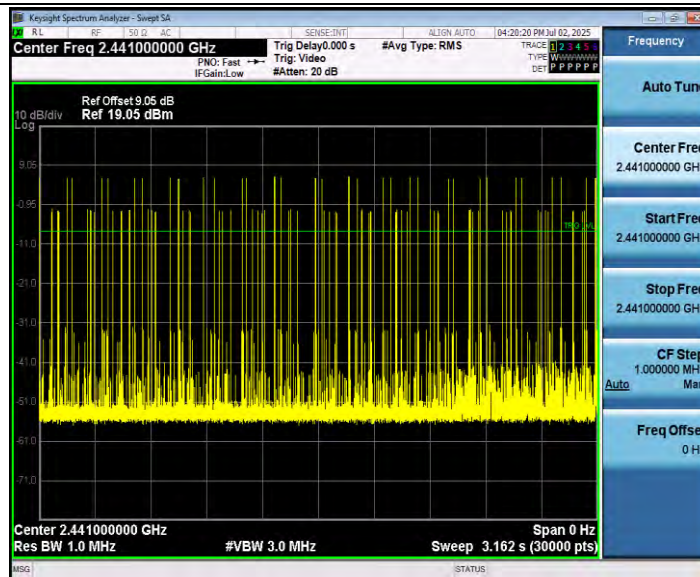
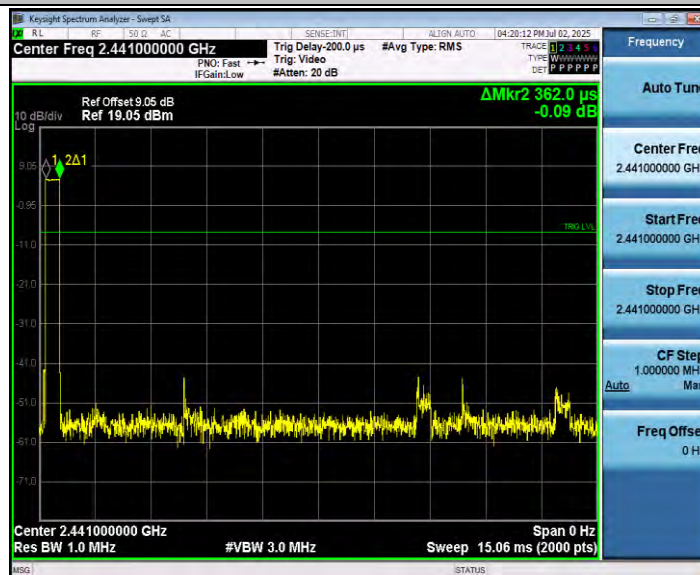
Test Graphs



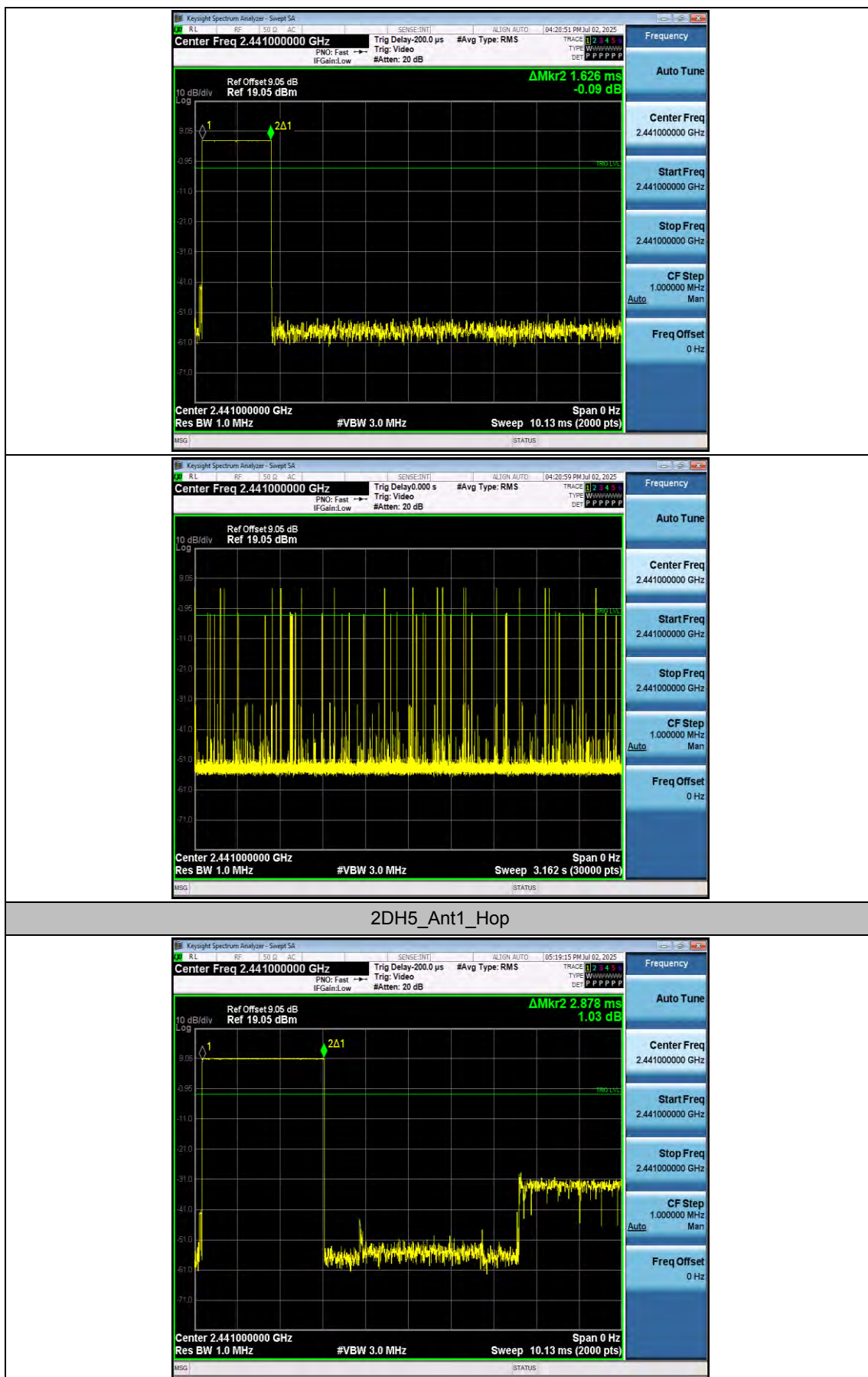


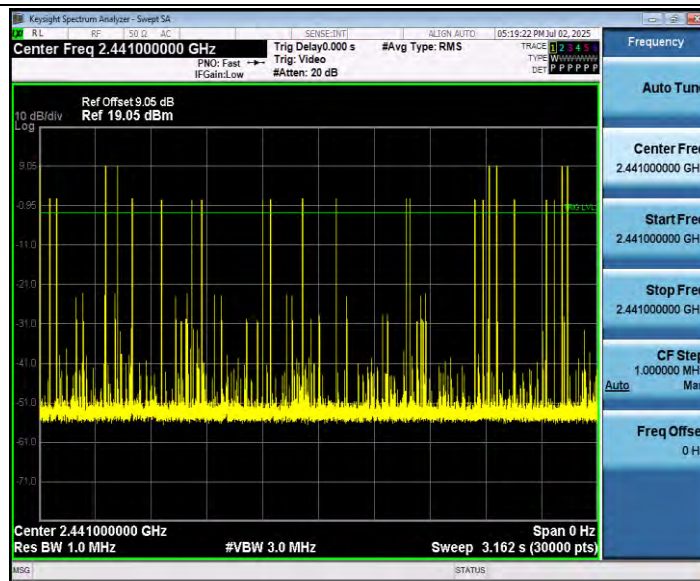


2DH1_Ant1_Hop

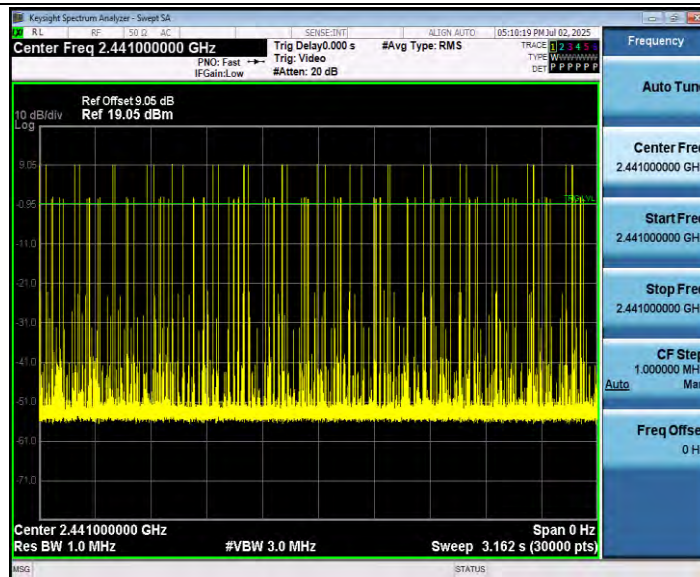
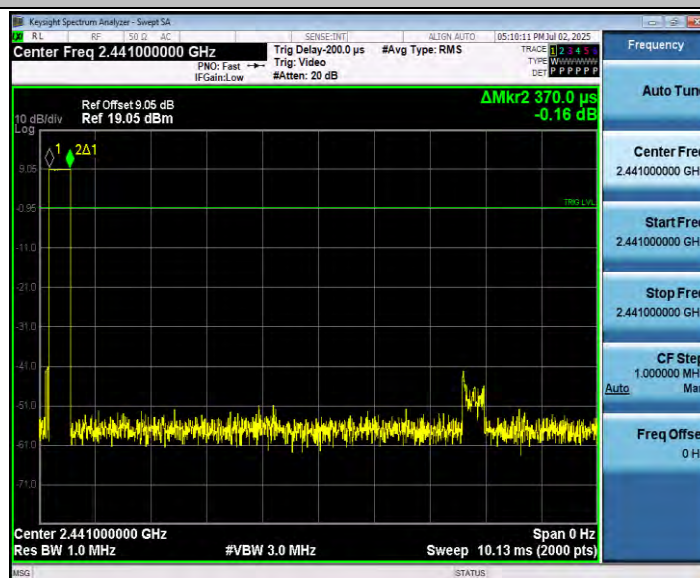


2DH3_Ant1_Hop

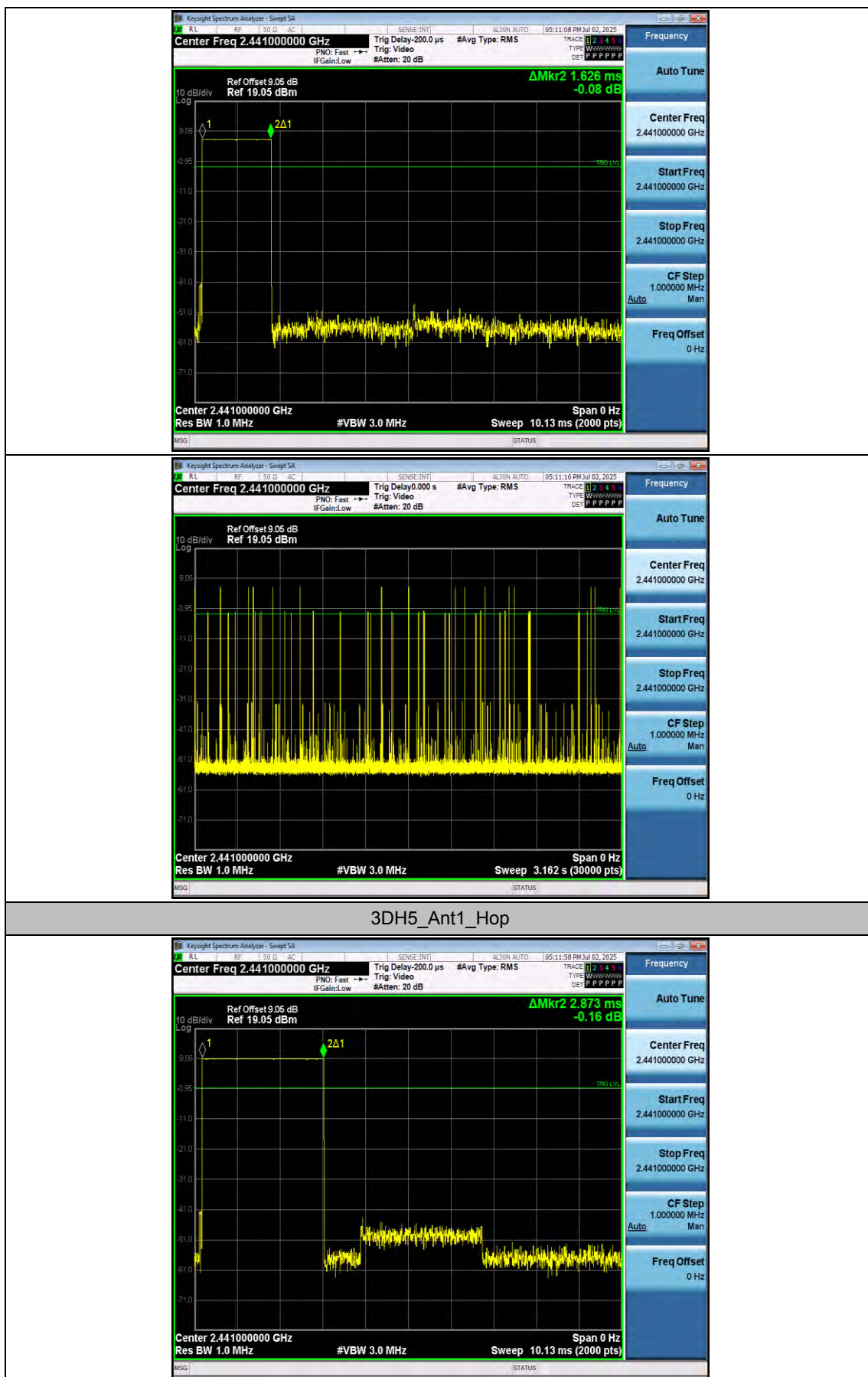




3DH1_Ant1_Hop



3DH3_Ant1_Hop



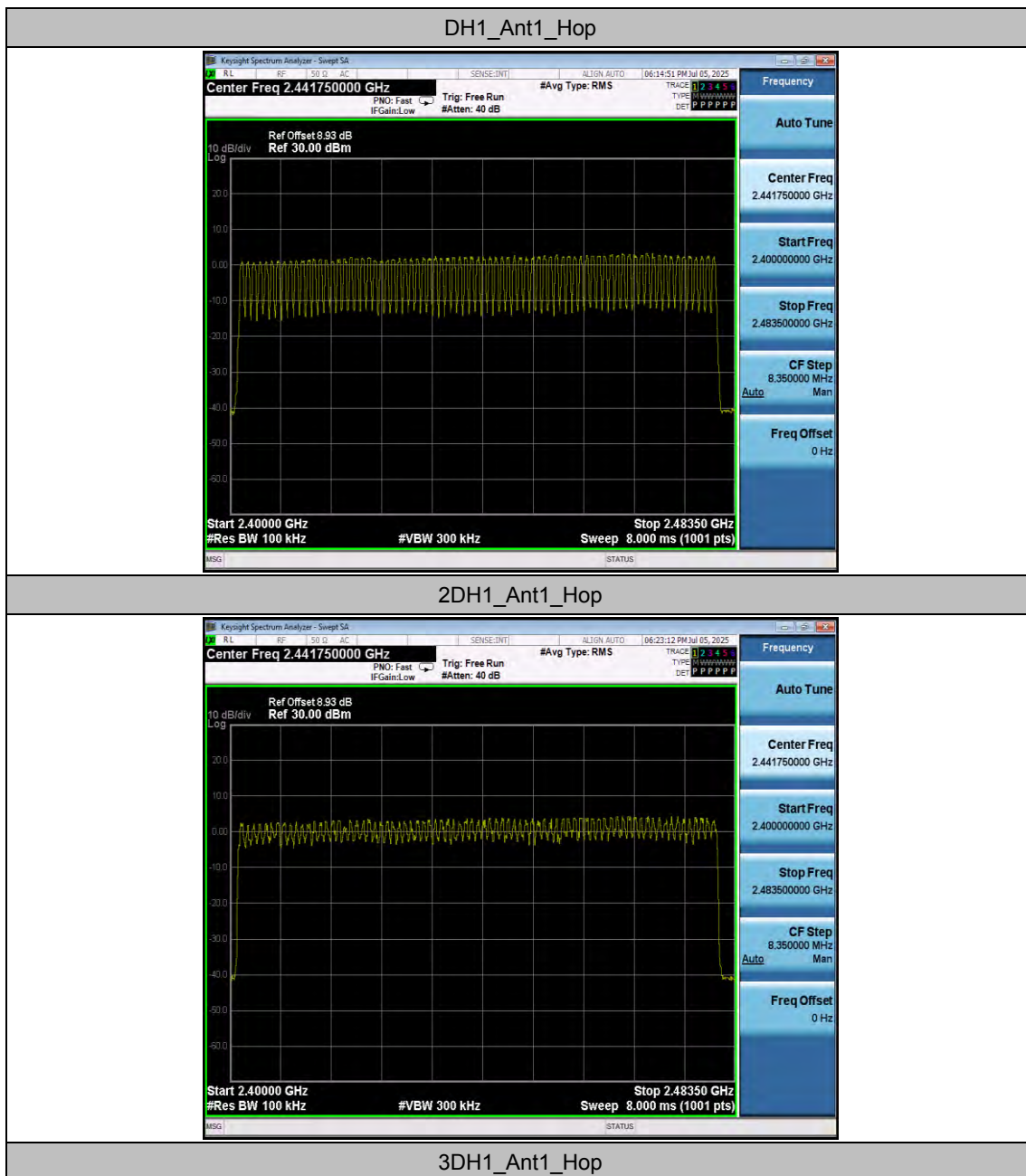


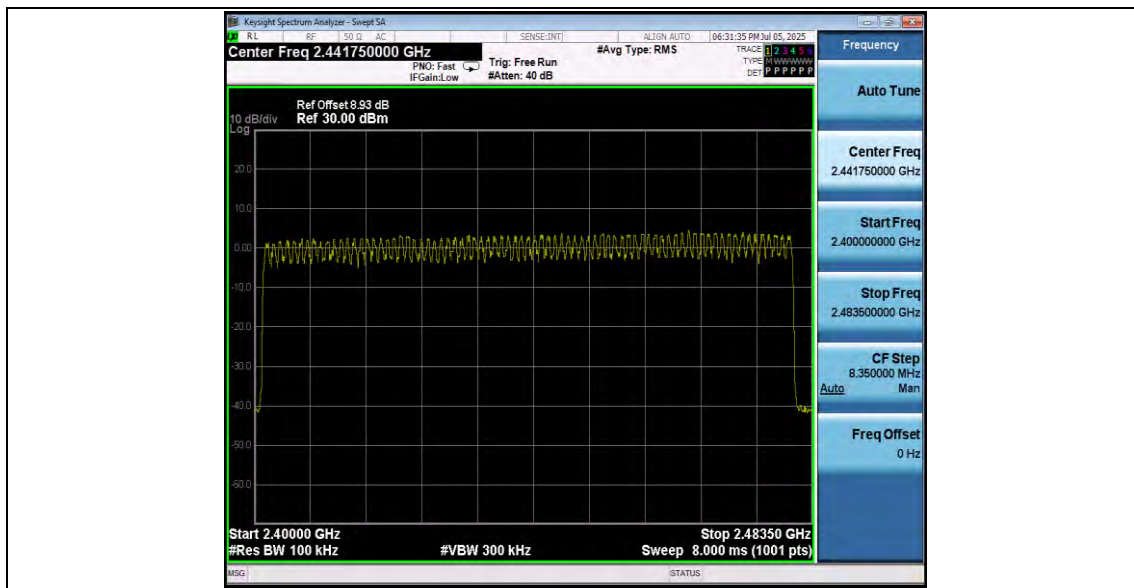
Appendix A.6: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs





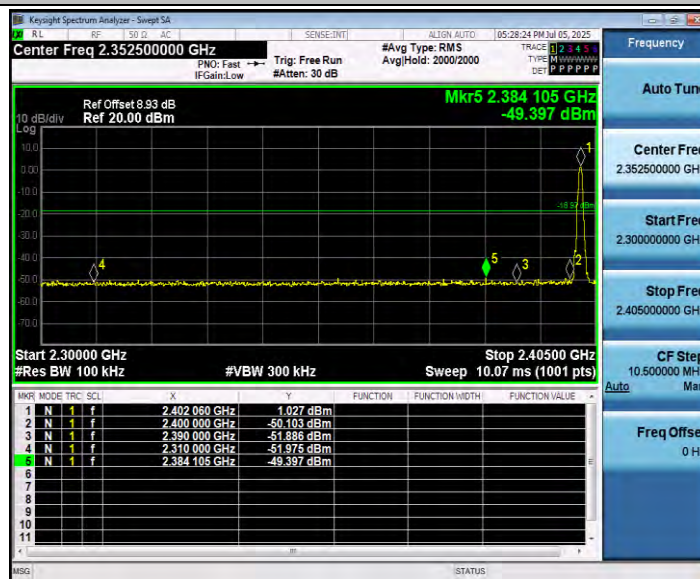
Appendix A.7: Band edge measurements

Test Result

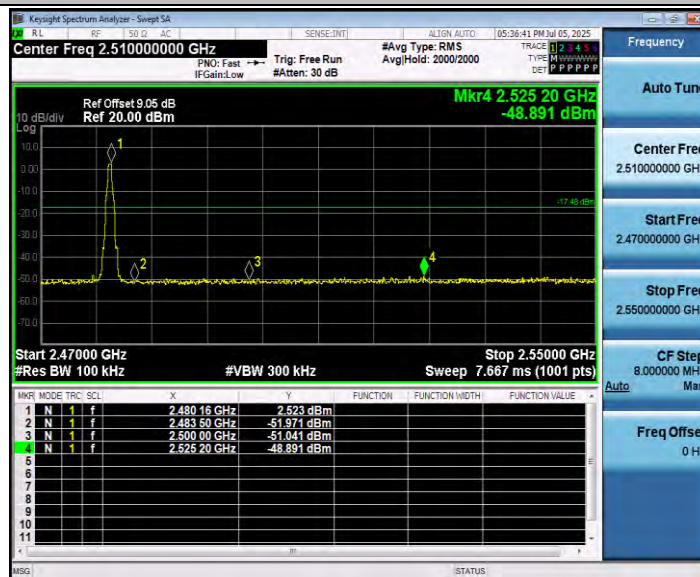
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	1.03	-49.4	≤ -18.97	PASS
		High	2480	2.52	-48.89	≤ -17.48	PASS
		Low	Hop_2402	1.25	-49.6	≤ -18.75	PASS
		High	Hop_2480	3.16	-48.49	≤ -16.84	PASS
2DH1	Ant1	Low	2402	0.26	-49.09	≤ -19.75	PASS
		High	2480	2.03	-48.61	≤ -17.97	PASS
		Low	Hop_2402	2.28	-49.89	≤ -17.72	PASS
		High	Hop_2480	3.79	-48.82	≤ -16.21	PASS
3DH1	Ant1	Low	2402	0.01	-49.38	≤ -19.99	PASS
		High	2480	1.77	-49.31	≤ -18.23	PASS
		Low	Hop_2402	2.27	-48.94	≤ -17.73	PASS
		High	Hop_2480	4.14	-48.77	≤ -15.86	PASS

Test Graphs

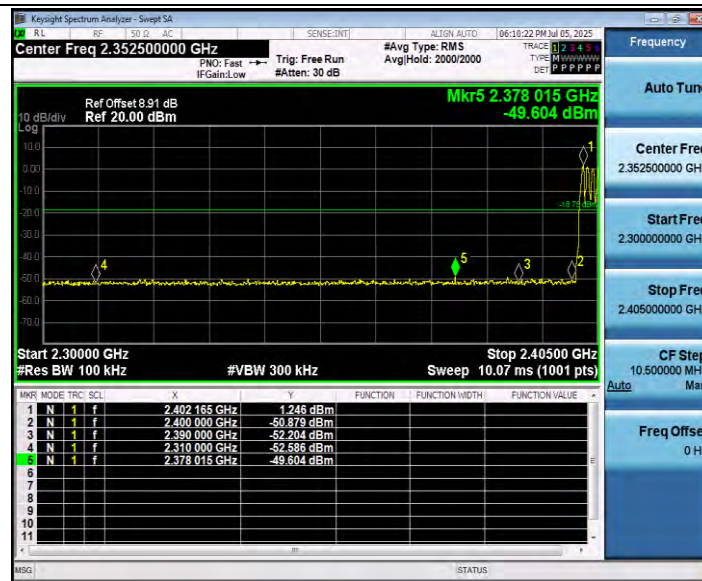
DH1_Ant1_Low_2402



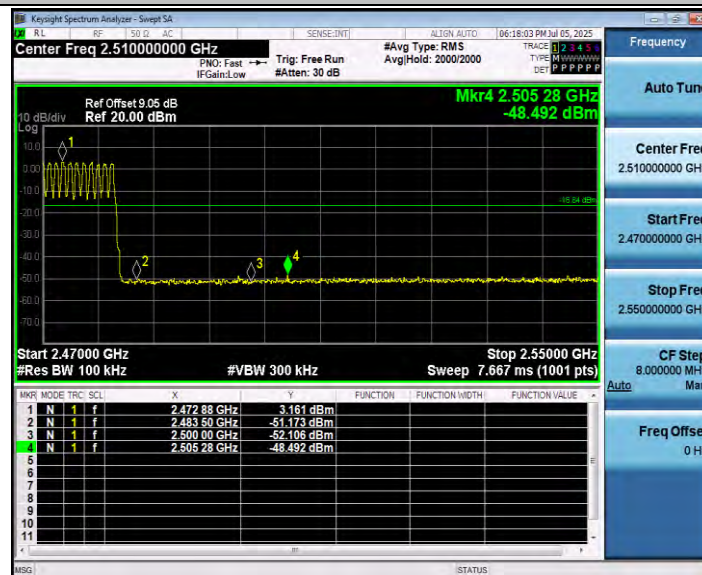
DH1_Ant1_High_2480



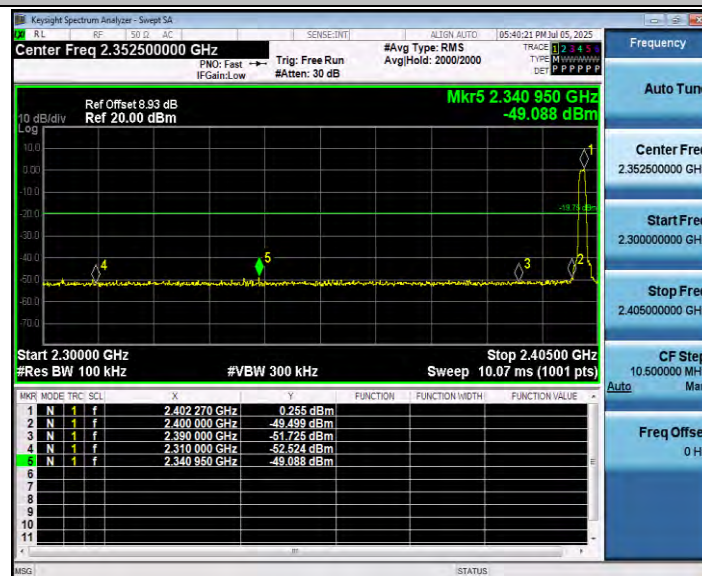
DH1_Ant1_Low_Hop_2402



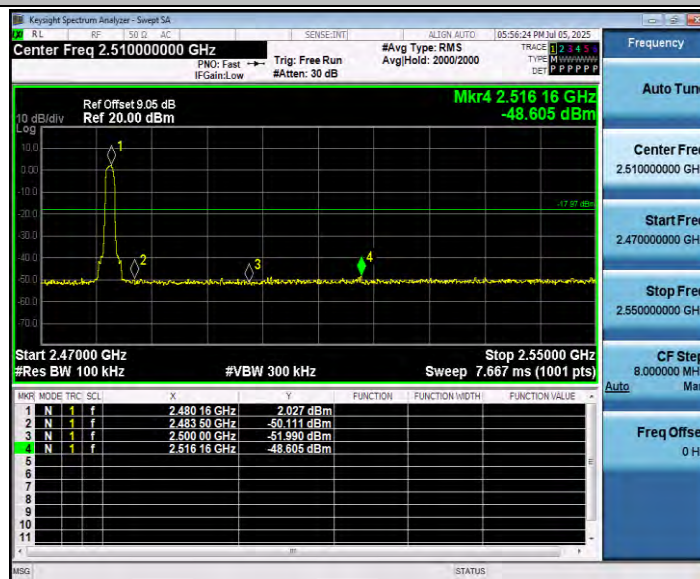
DH1_Ant1_High_Hop_2480



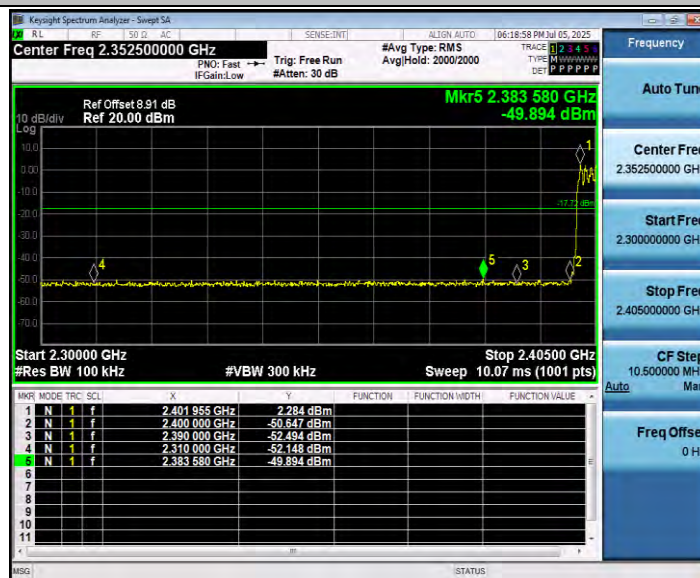
2DH1_Ant1_Low_2402



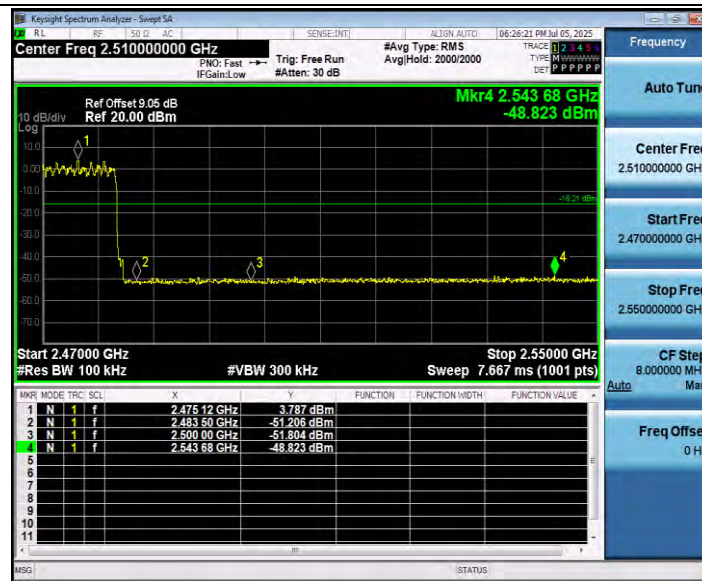
2DH1_Ant1_High_2480



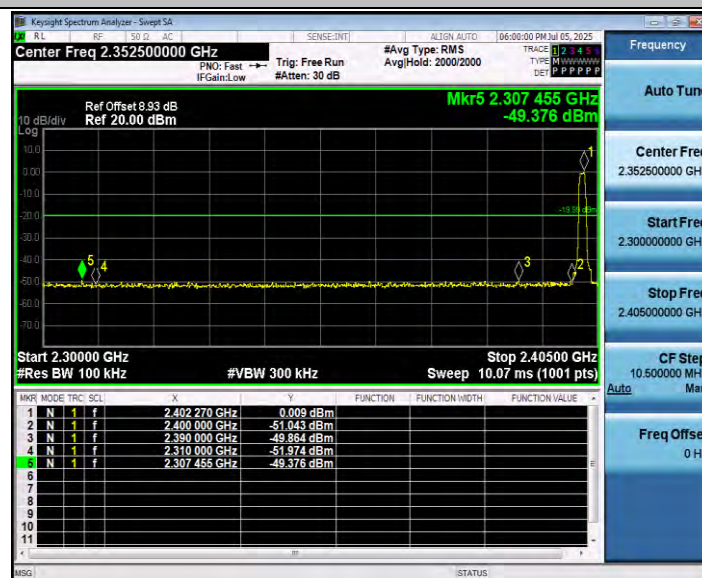
2DH1_Ant1_Low_Hop_2402



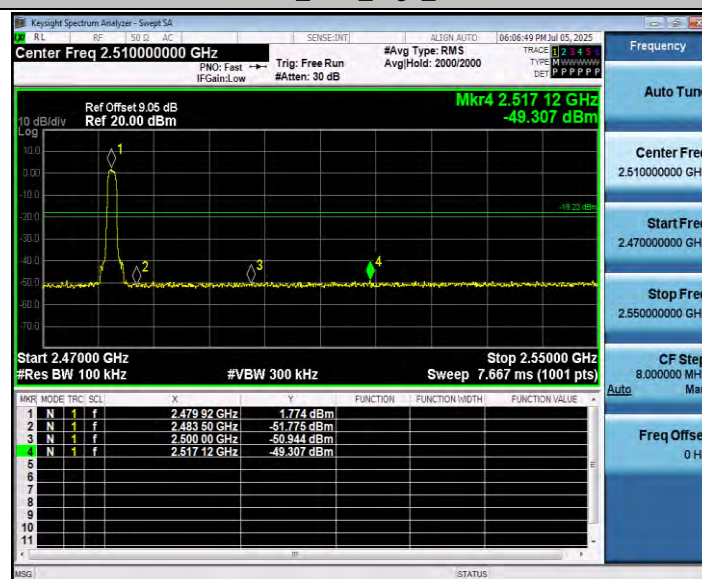
2DH1_Ant1_High_Hop_2480



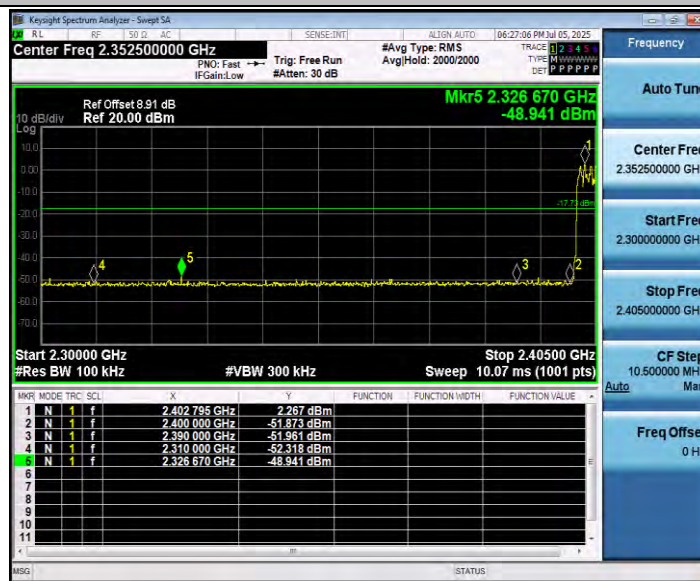
3DH1_Ant1_Low_2402



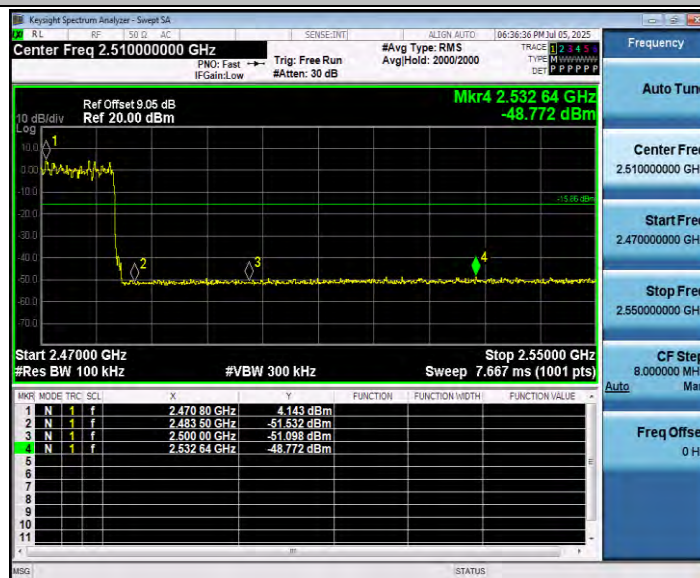
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480

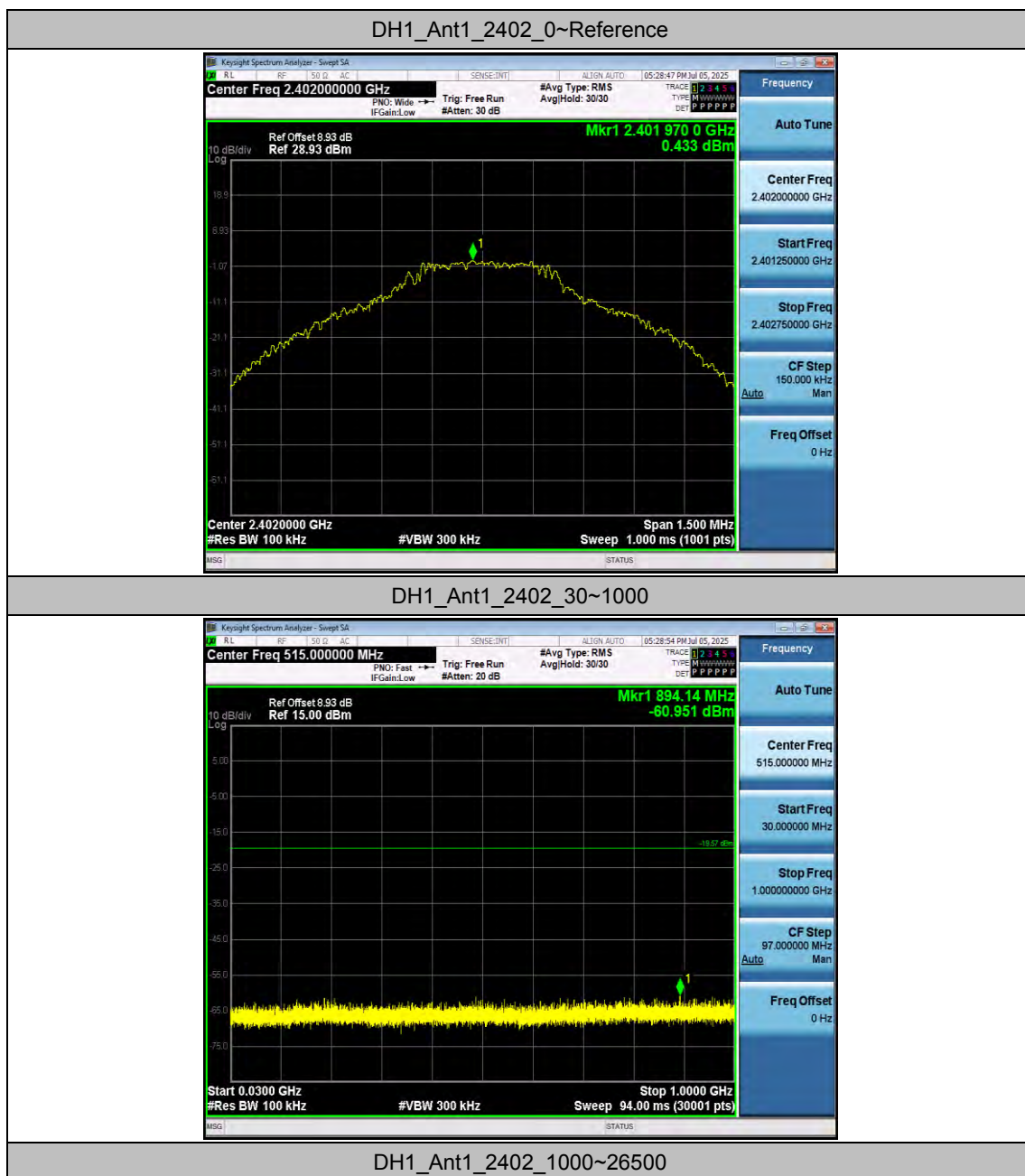


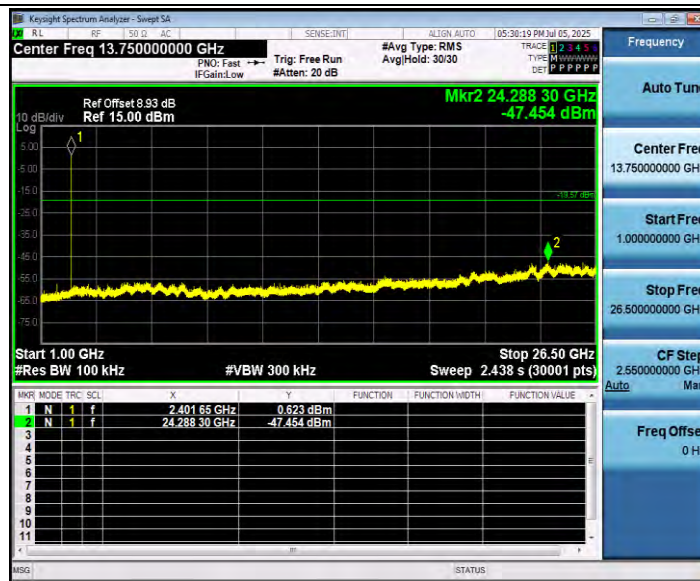
Appendix A.8: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-60.95	≤ -19.57	PASS
			1000~26500	0.43	-47.45	≤ -19.57	PASS
		2441	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-60.59	≤ -18.42	PASS
			1000~26500	1.58	-48.41	≤ -18.42	PASS
		2480	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-60.2	≤ -17.89	PASS
			1000~26500	2.11	-47.9	≤ -17.89	PASS
2DH1	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-60.89	≤ -19.88	PASS
			1000~26500	0.12	-48.09	≤ -19.88	PASS
		2441	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-59.28	≤ -18.91	PASS
			1000~26500	1.09	-47.77	≤ -18.91	PASS
		2480	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-60.88	≤ -18.87	PASS
			1000~26500	1.13	-47.62	≤ -18.87	PASS
3DH1	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-59.73	≤ -21.07	PASS
			1000~26500	-1.07	-48.1	≤ -21.07	PASS
		2441	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-61.11	≤ -19.64	PASS
			1000~26500	0.36	-47.72	≤ -19.64	PASS
		2480	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-60.7	≤ -19.37	PASS
			1000~26500	0.63	-48.36	≤ -19.37	PASS

Test Graphs

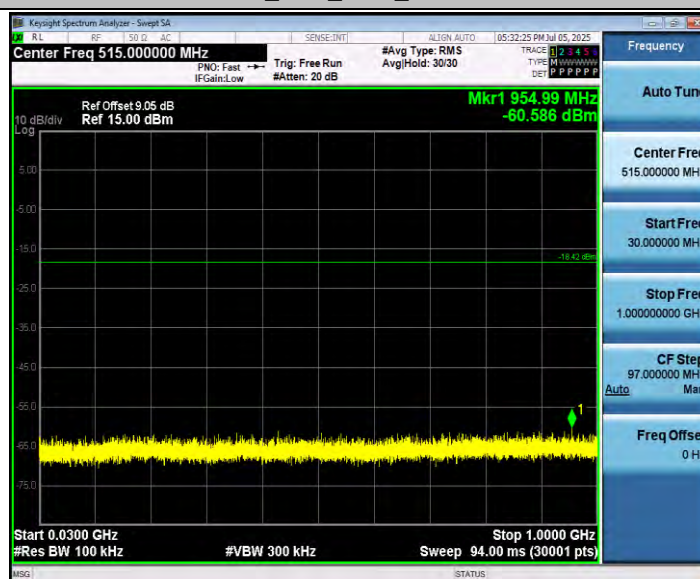




DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



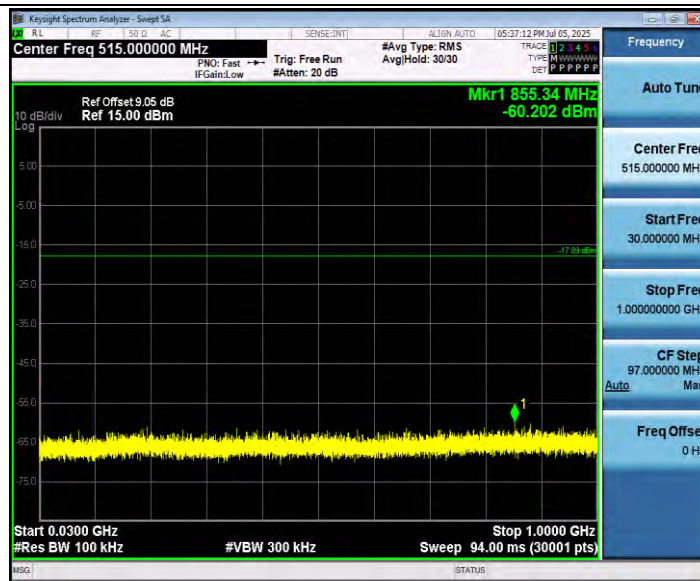
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000

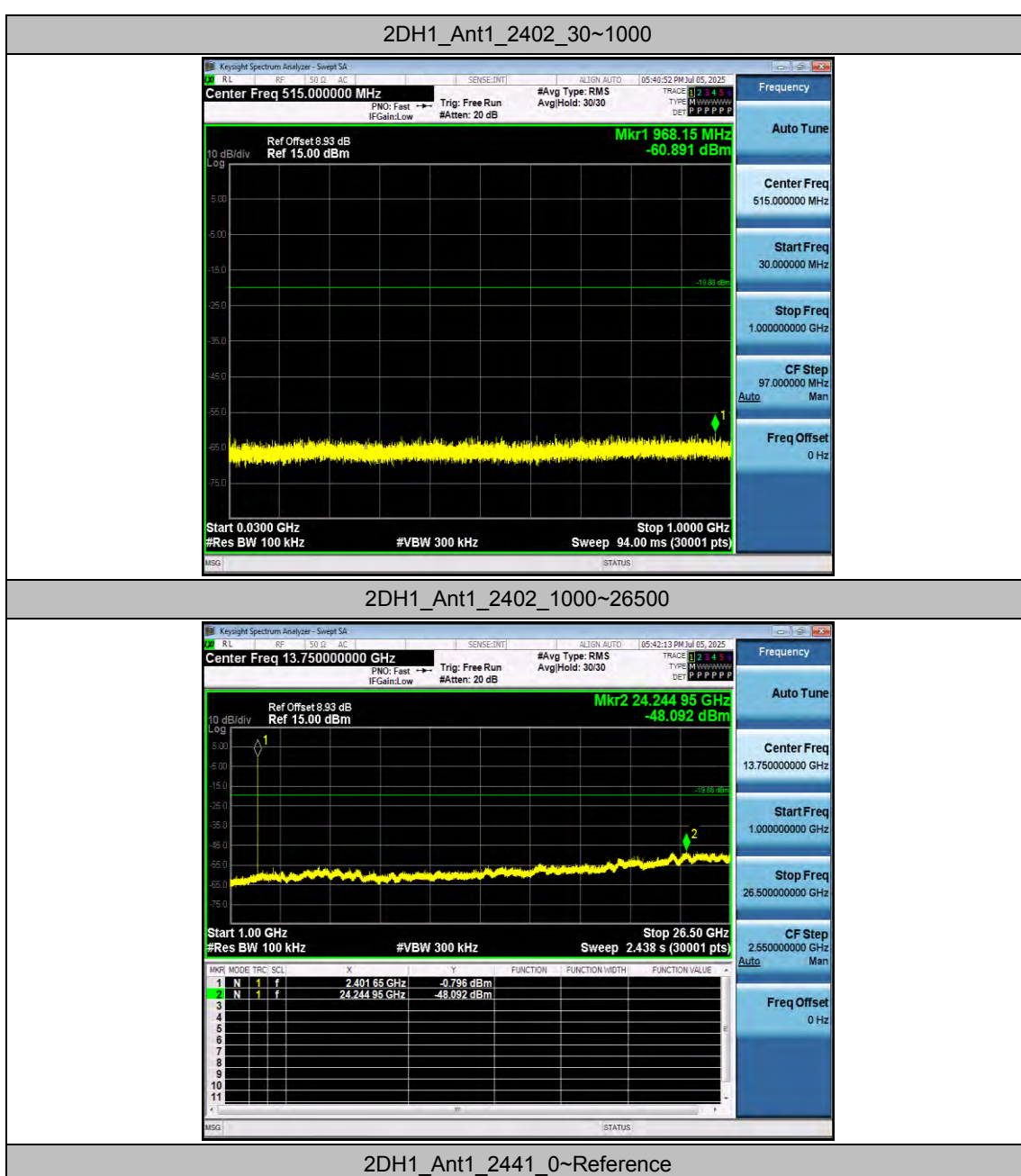


DH1_Ant1_2480_1000~26500



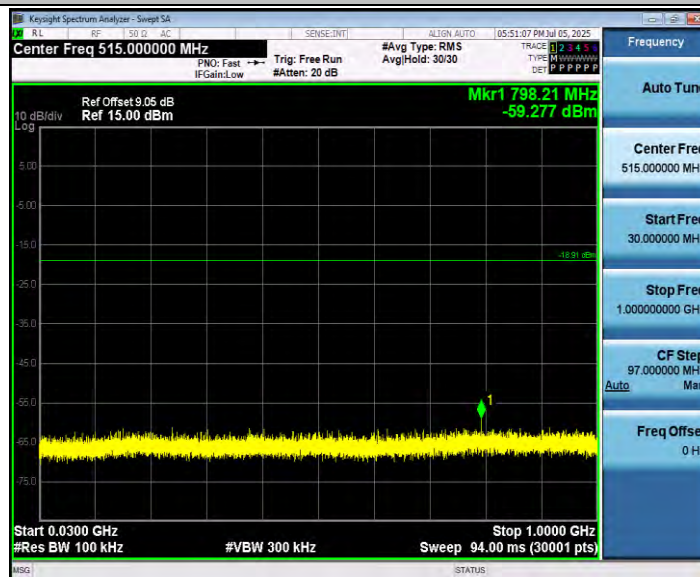
2DH1_Ant1_2402_0~Reference







2DH1_Ant1_2441_30~1000



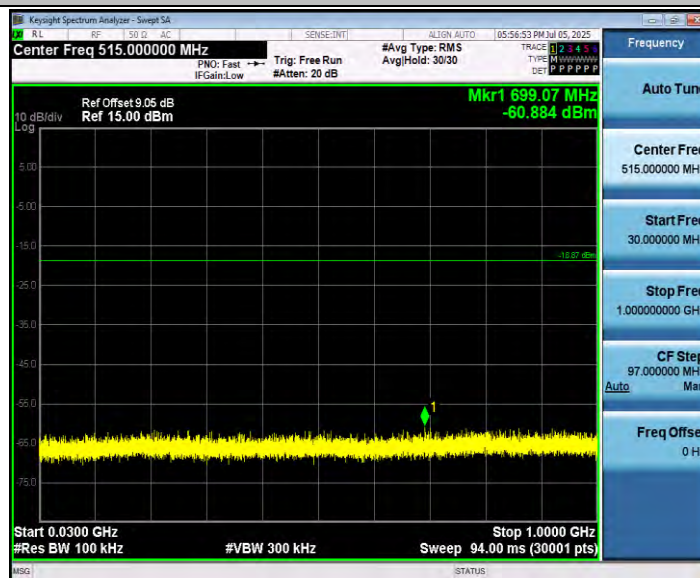
2DH1_Ant1_2441_1000~26500



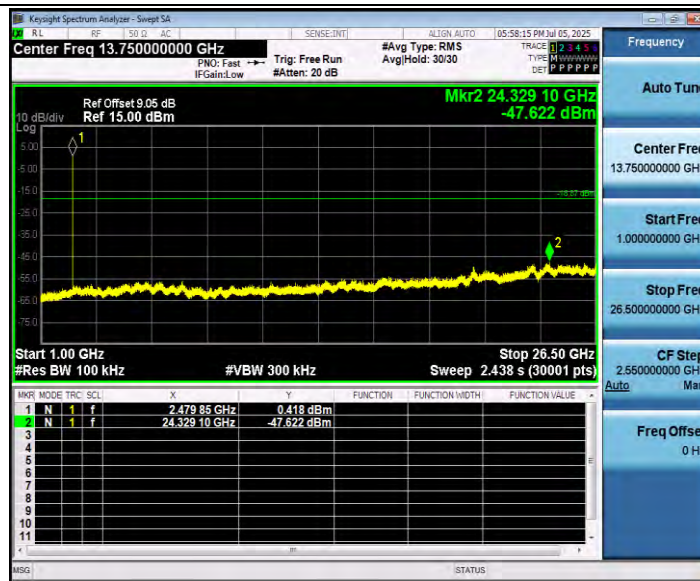
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



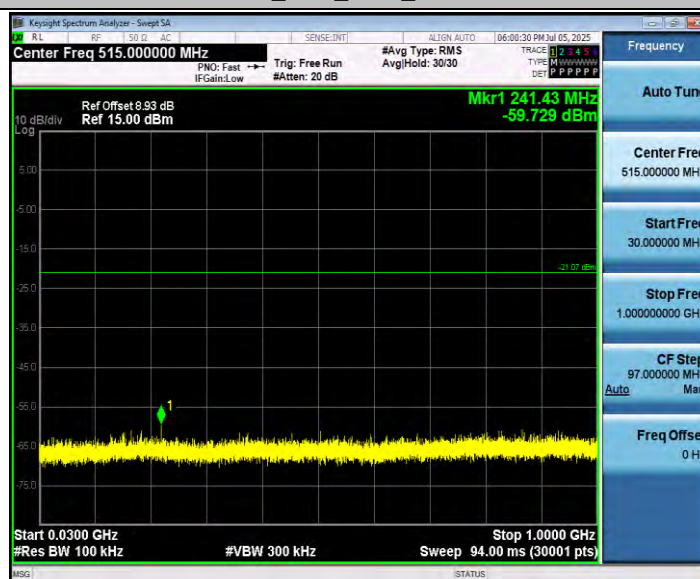
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



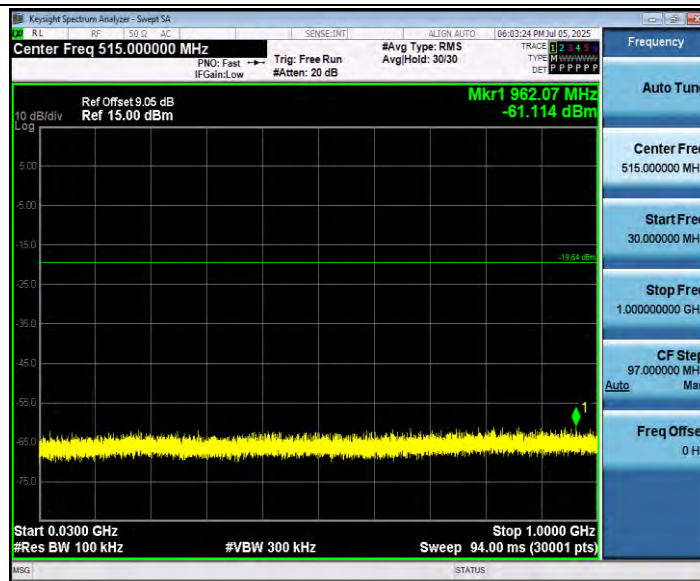
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000

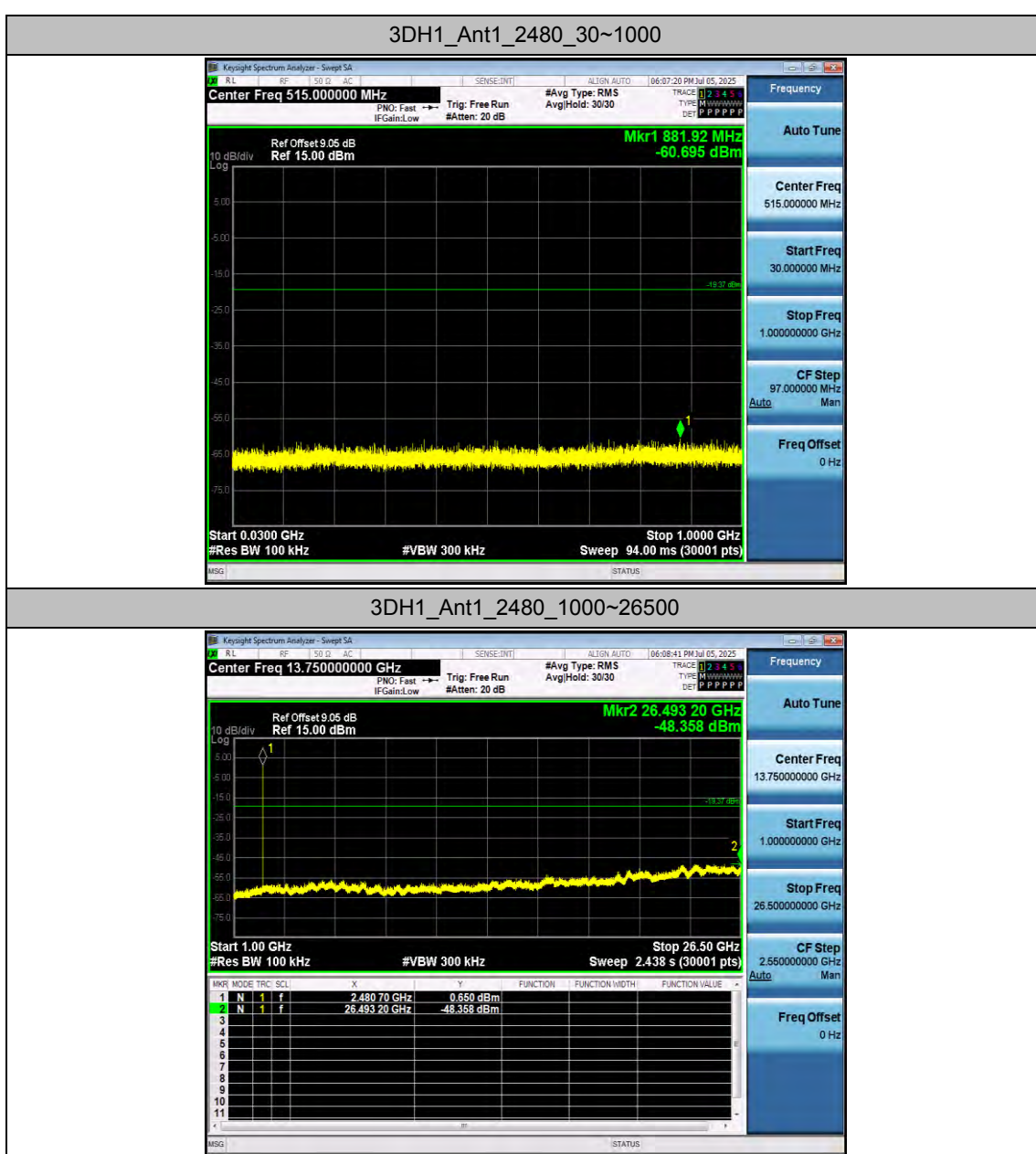


3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference





Appendix A.9: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2389.250	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-49.09	≤-41.20	46.11	≤54	PASS
				Peak	2310.000	-44.13	≤-21.20	51.07	≤74	PASS
				Peak	2379.380	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2390.000	-44.78	≤-21.20	50.42	≤74	PASS
		High	2480	AV	2483.500	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2483.520	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-42.12	≤-21.20	53.08	≤74	PASS
				Peak	2498.000	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2500.000	-45.41	≤-21.20	49.79	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.565	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-43.08	≤-21.20	52.12	≤74	PASS
				Peak	2365.835	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2390.000	-44.52	≤-21.20	50.68	≤74	PASS
		High	2480	AV	2483.500	-47.14	≤-41.20	48.06	≤54	PASS
				AV	2483.520	-47.14	≤-41.20	48.06	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-41.82	≤-21.20	53.38	≤74	PASS
				Peak	2486.720	-40.53	≤-21.20	54.67	≤74	PASS
				Peak	2500.000	-44.51	≤-21.20	50.69	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2387.255	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-45.56	≤-21.20	49.64	≤74	PASS
				Peak	2348.720	-40.15	≤-21.20	55.05	≤74	PASS
				Peak	2390.000	-42.46	≤-21.20	52.74	≤74	PASS
		High	2480	AV	2483.500	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2483.520	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2500.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2483.500	-44.27	≤-21.20	50.93	≤74	PASS
				Peak	2486.960	-40.33	≤-21.20	54.87	≤74	PASS

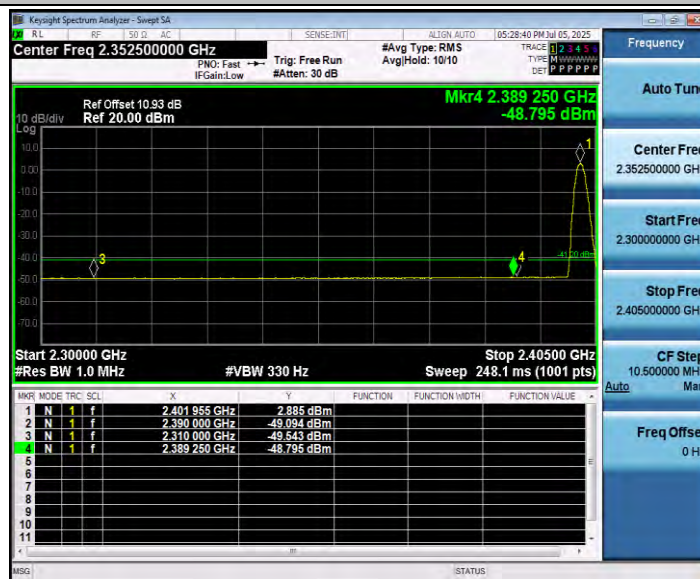
				Peak	2500.000	-43.09	≤ -21.20	52.11	≤ 74	PASS
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Note:

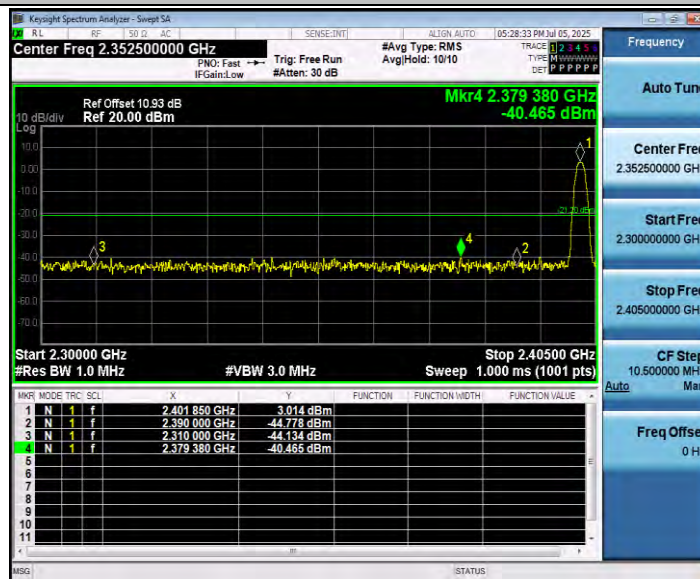
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

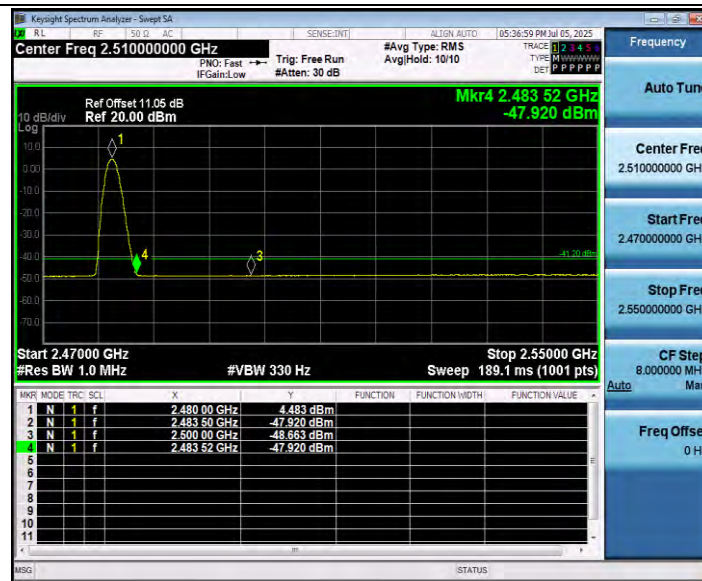
DH1_Ant1_Low_2402_AV



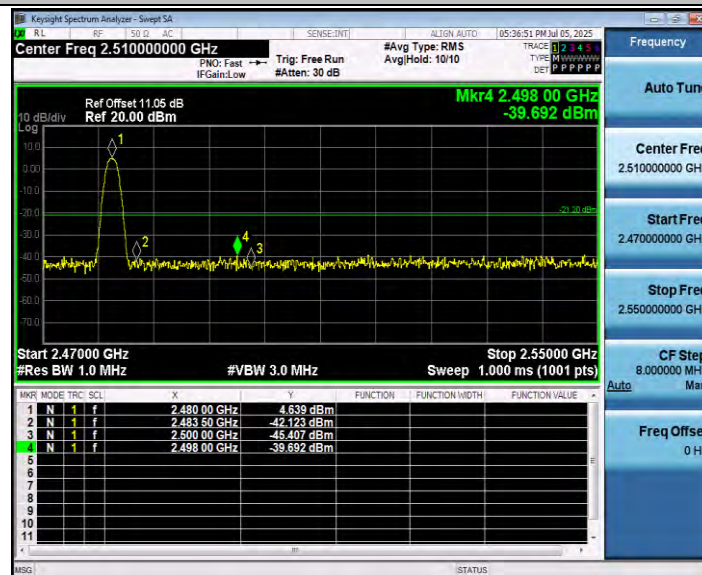
DH1_Ant1_Low_2402_Peak



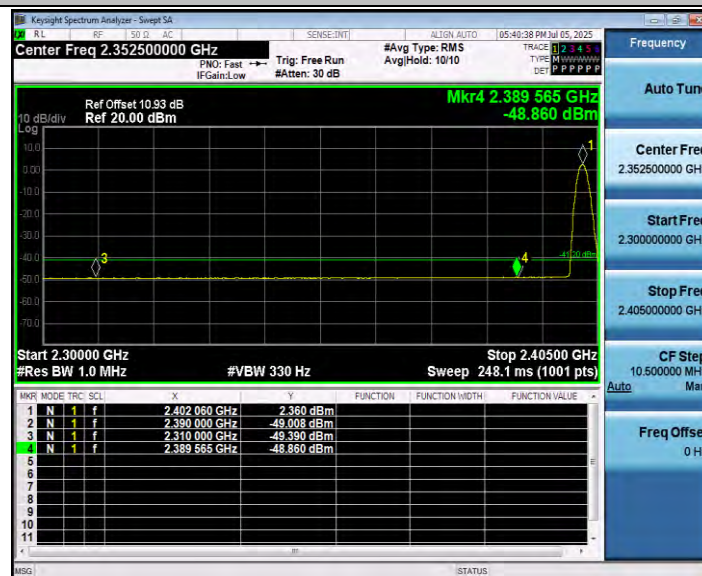
DH1_Ant1_High_2480_AV



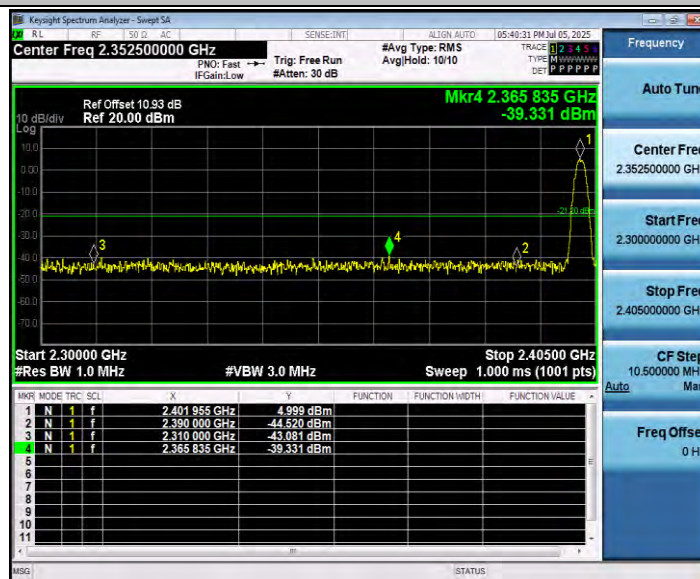
DH1_Ant1_High_2480_Peak



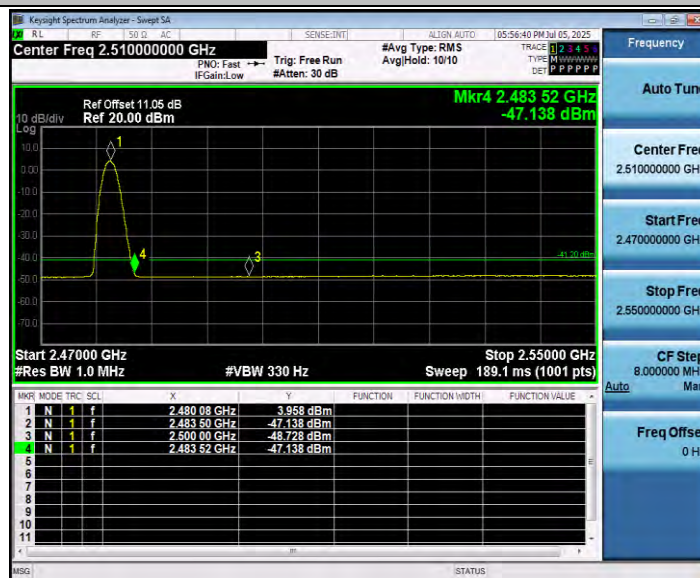
2DH1_Ant1_Low_2402_AV



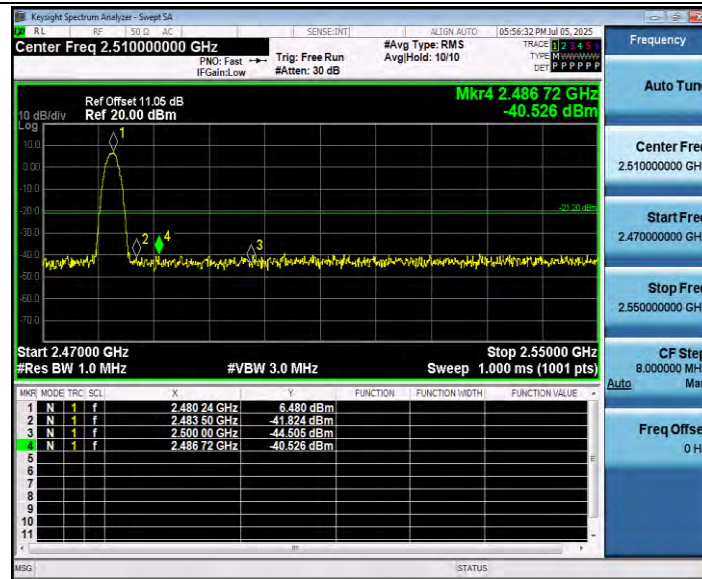
2DH1_Ant1_Low_2402_Peak



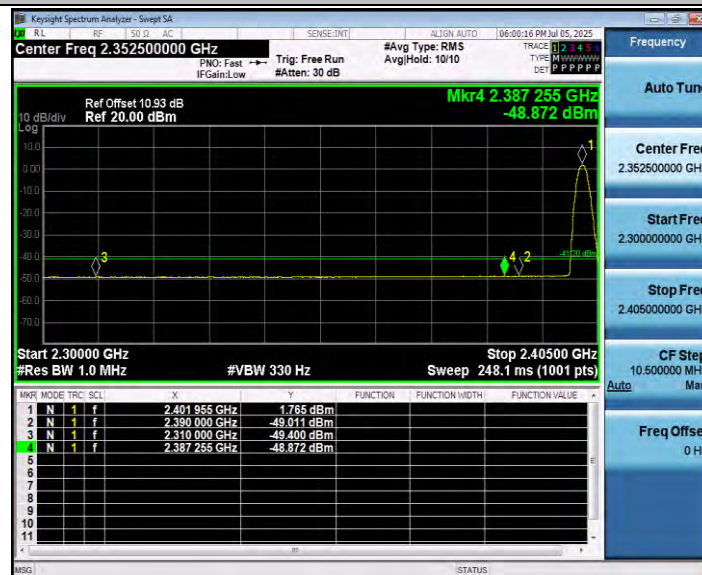
2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak

