

Appendix Test Data

Report No.:	1812C50182112501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-27	Finish Test Date:	2025-04-27
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25°C	Relative Humidity:	47%
Pressure:	101kPa		

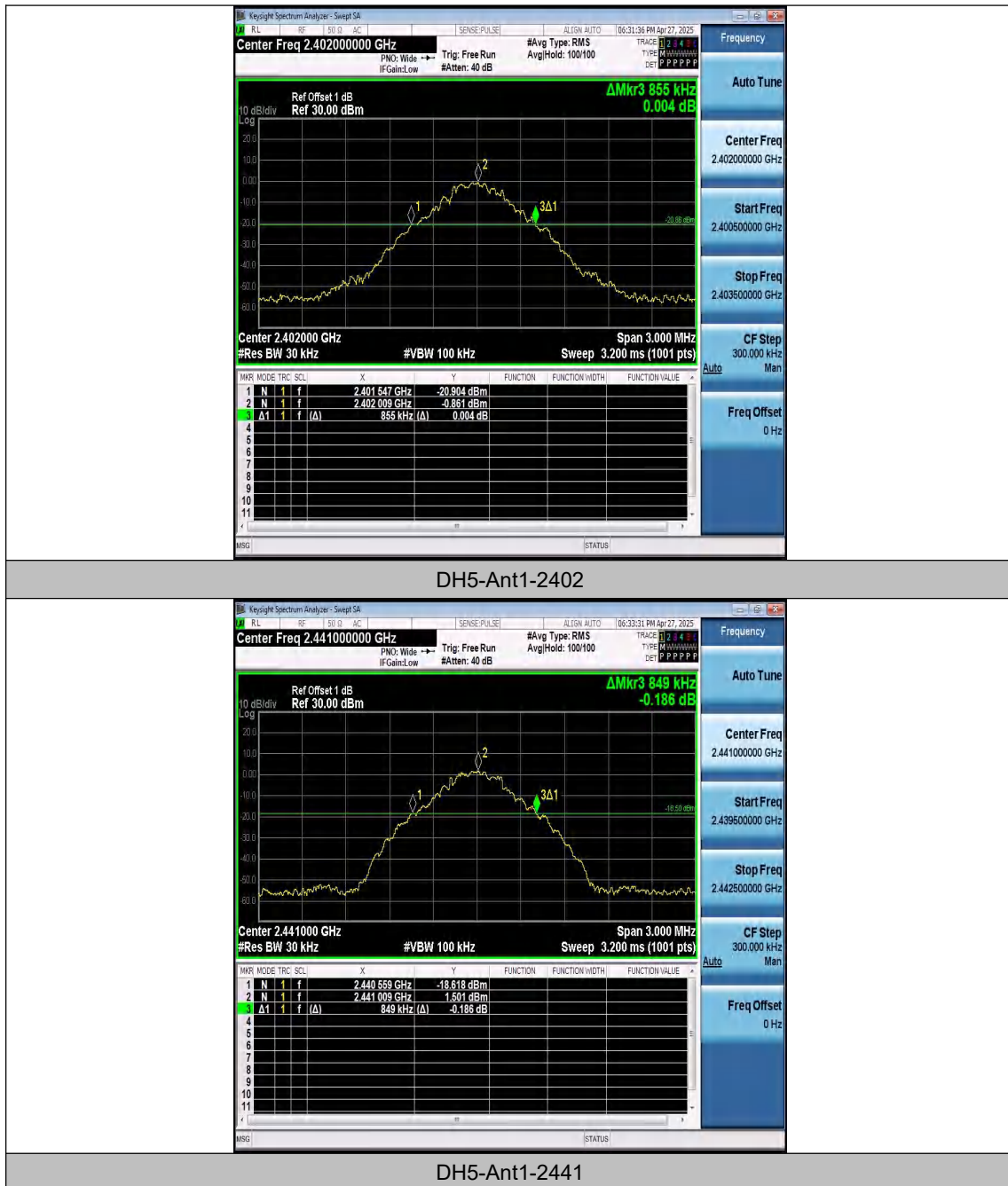
Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.855	2401.547	2402.402	---	---
DH5	Ant1	2441	0.849	2440.559	2441.408	---	---
DH5	Ant1	2480	0.852	2479.559	2480.411	---	---
2DH5	Ant1	2402	1.278	2401.361	2402.639	---	---
2DH5	Ant1	2441	1.245	2440.364	2441.609	---	---
2DH5	Ant1	2480	1.272	2479.367	2480.639	---	---
3DH5	Ant1	2402	1.272	2401.355	2402.627	---	---
3DH5	Ant1	2441	1.257	2440.358	2441.615	---	---
3DH5	Ant1	2480	1.278	2479.352	2480.630	---	---



Test Graphs



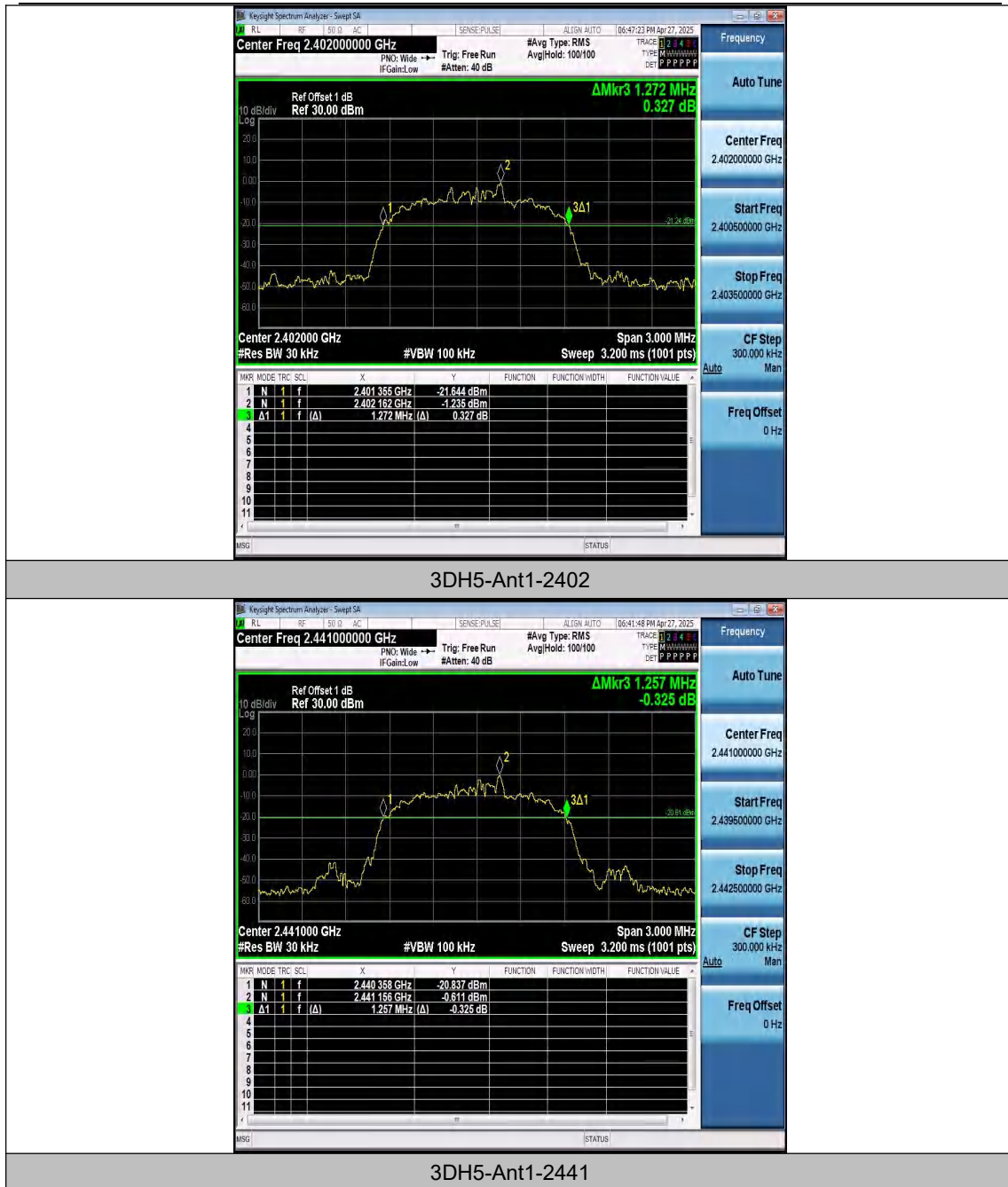


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3DH5-Ant1-2480

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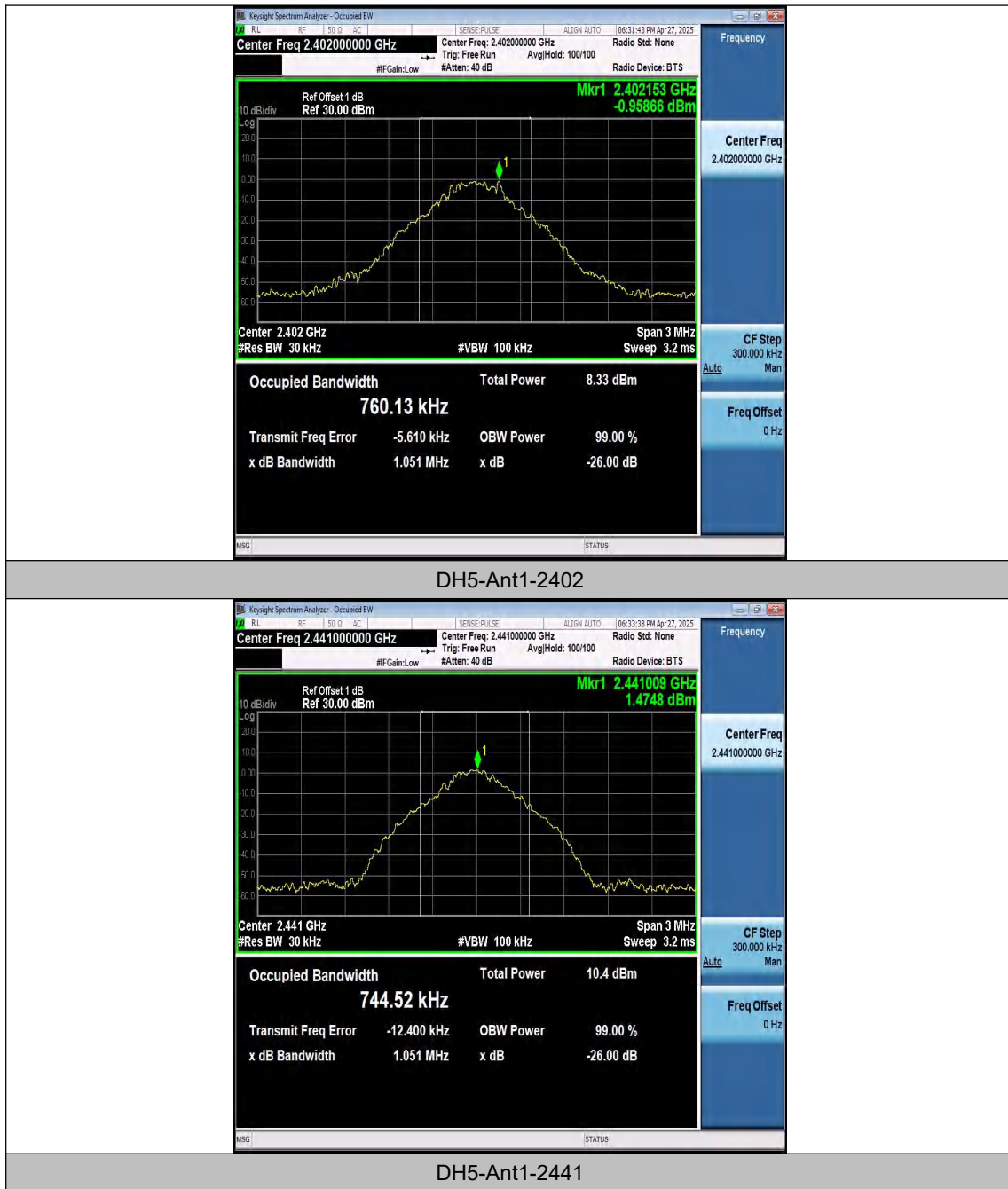
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.76013	2401.6143	2402.3745	---	---
DH5	Ant1	2441	0.74452	2440.6153	2441.3599	---	---
DH5	Ant1	2480	0.75455	2479.6231	2480.3777	---	---
2DH5	Ant1	2402	1.1733	2401.4034	2402.5767	---	---
2DH5	Ant1	2441	1.1648	2440.4084	2441.5732	---	---
2DH5	Ant1	2480	1.1729	2479.4079	2480.5808	---	---
3DH5	Ant1	2402	1.1879	2401.3965	2402.5844	---	---
3DH5	Ant1	2441	1.1573	2440.4156	2441.5729	---	---
3DH5	Ant1	2480	1.1583	2479.4188	2480.5771	---	---



Test Graphs



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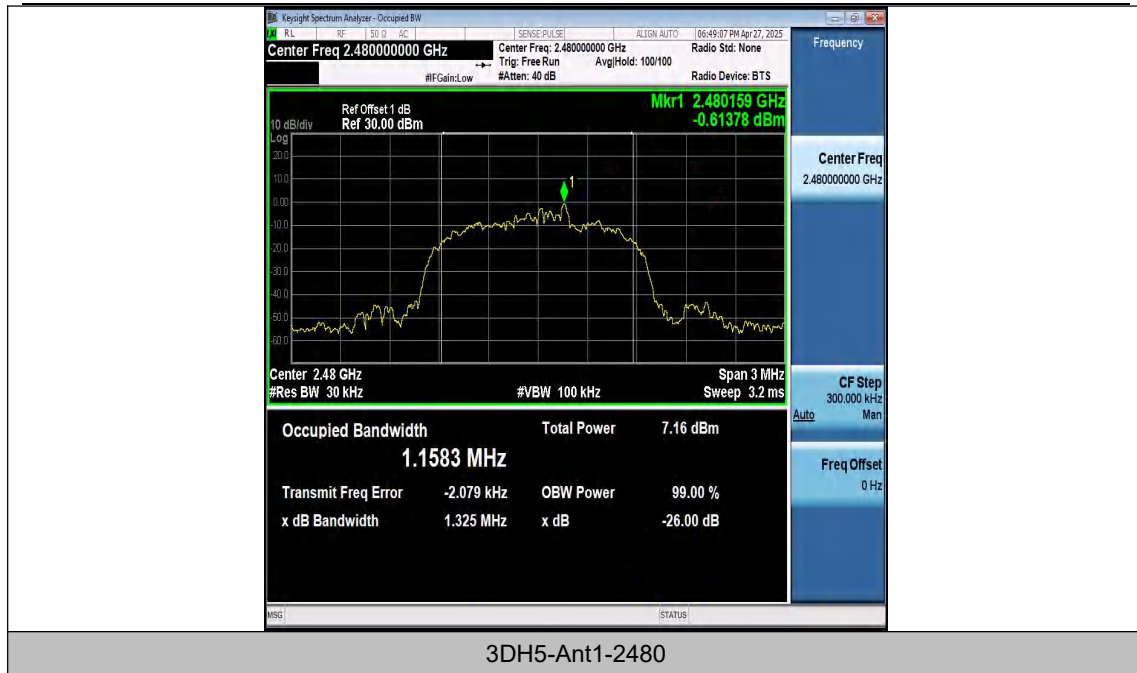
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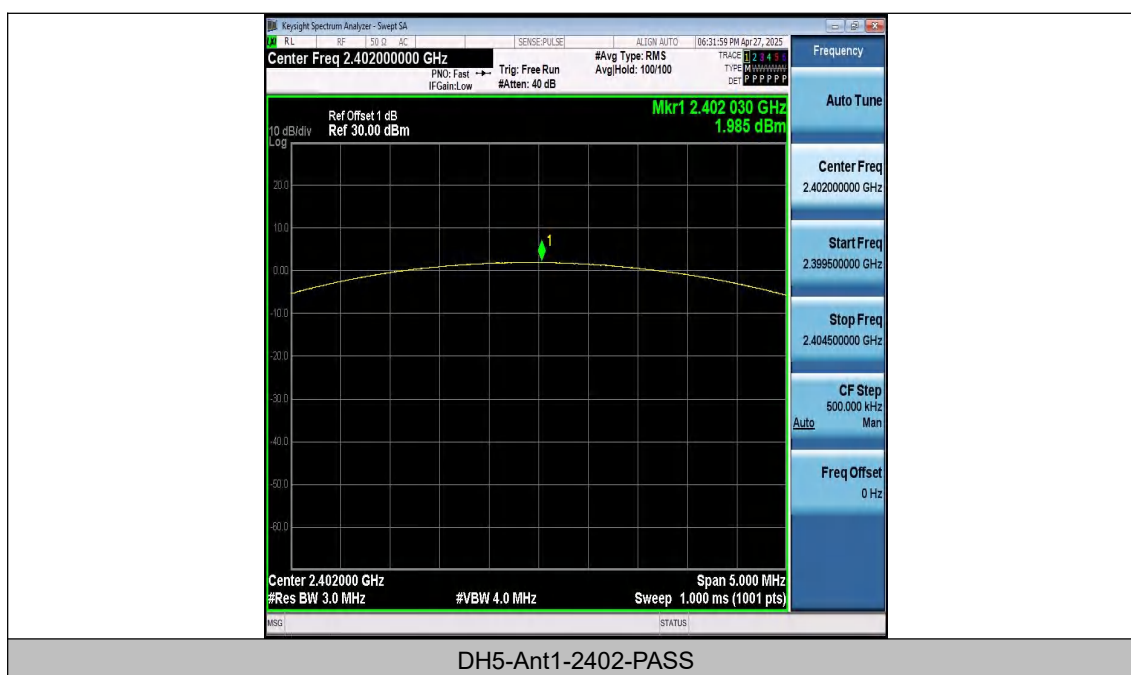
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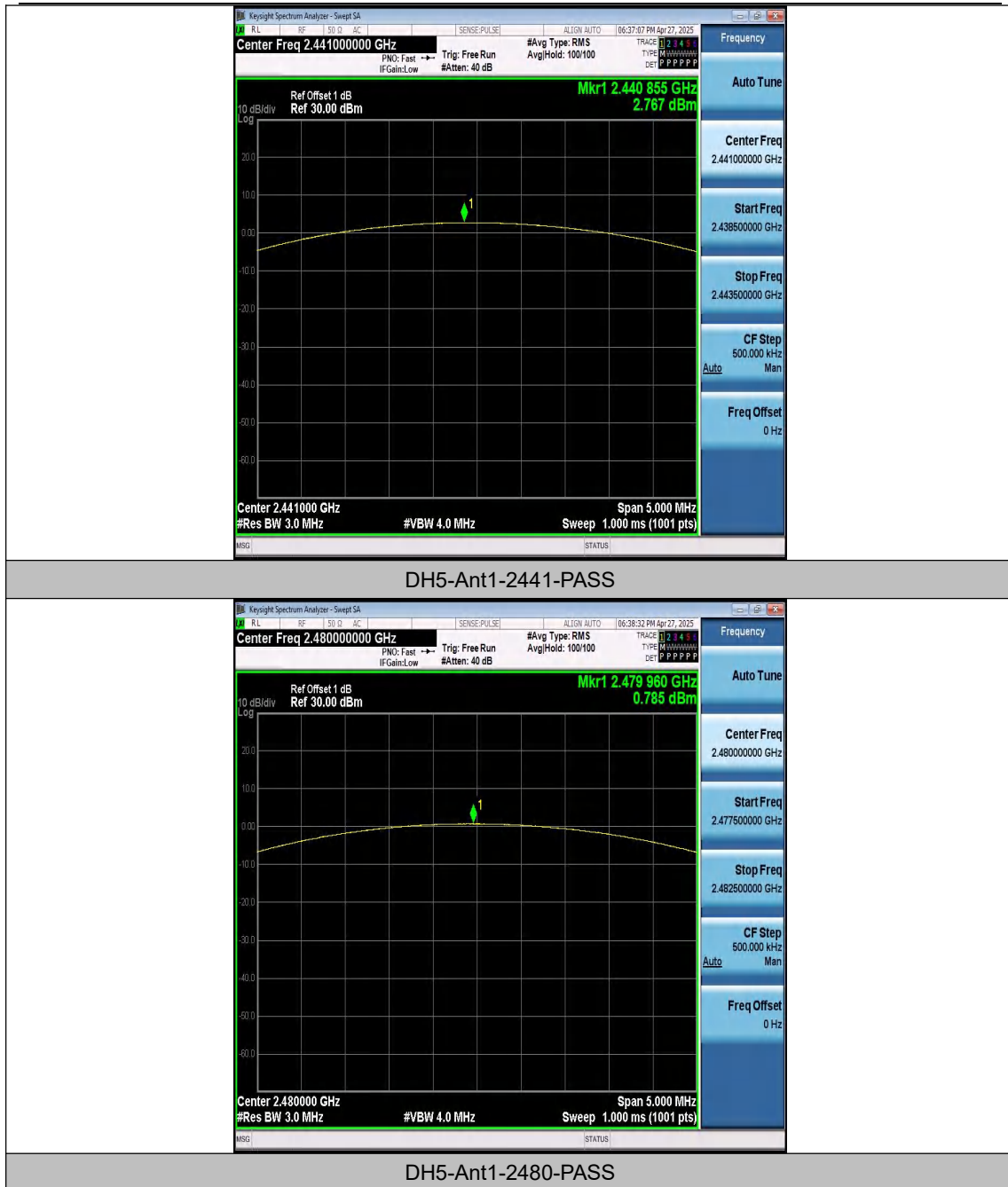
Appendix C: Maximum Conducted Output Power

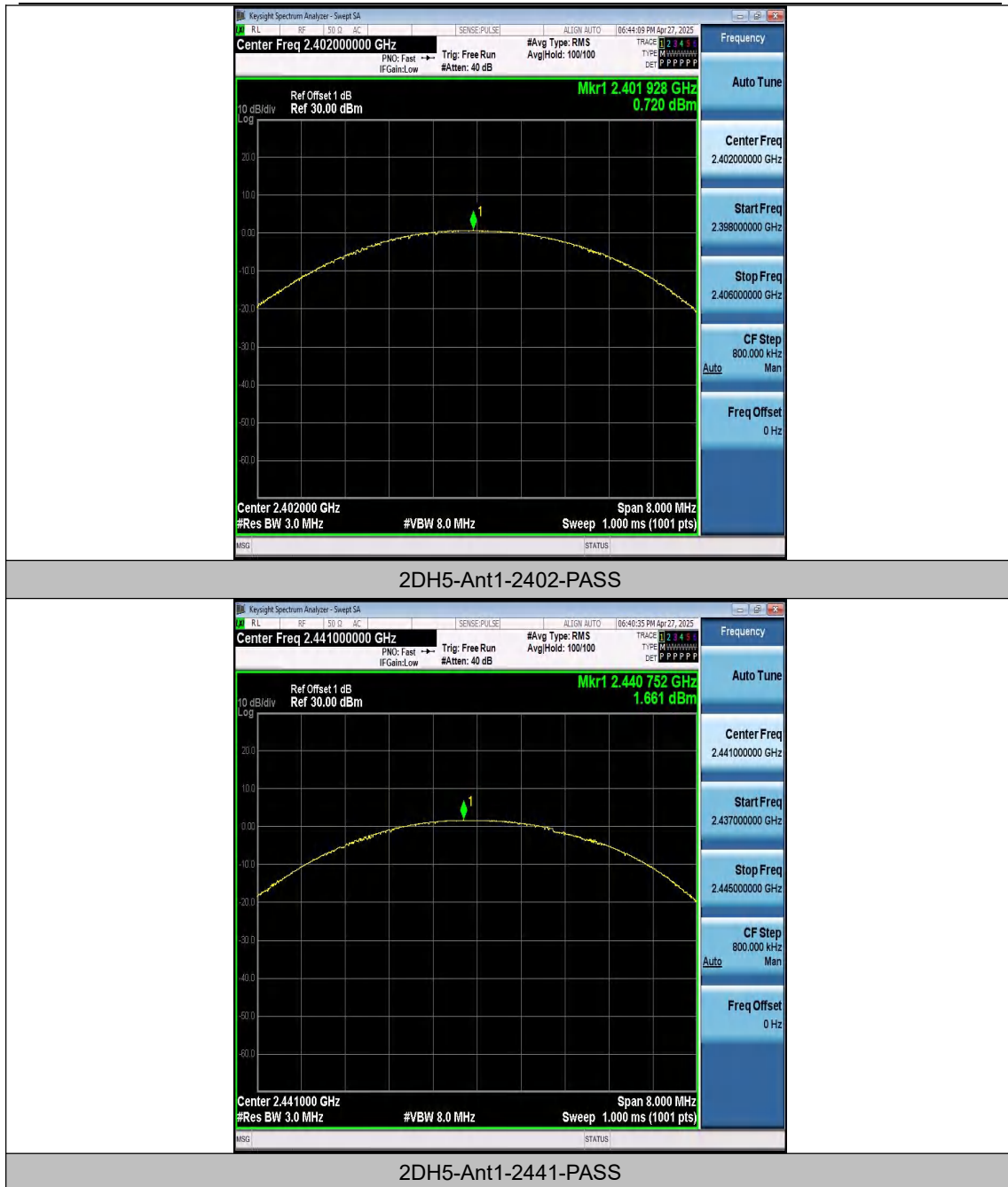
Test Result Peak

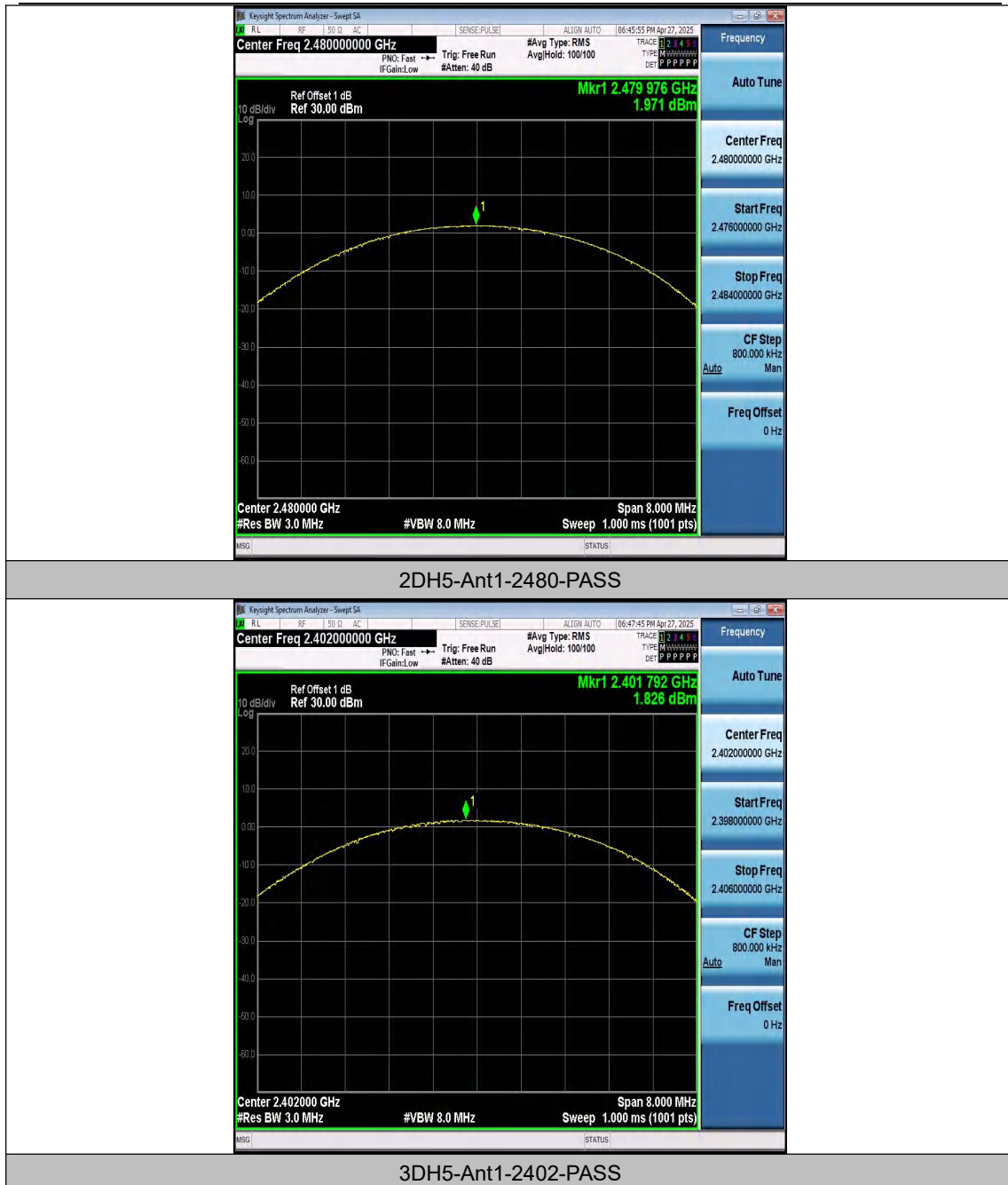
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.99	≤20.97	PASS
DH5	Ant1	2441	2.77	≤20.97	PASS
DH5	Ant1	2480	0.79	≤20.97	PASS
2DH5	Ant1	2402	0.72	≤20.97	PASS
2DH5	Ant1	2441	1.66	≤20.97	PASS
2DH5	Ant1	2480	1.97	≤20.97	PASS
3DH5	Ant1	2402	1.83	≤20.97	PASS
3DH5	Ant1	2441	1.64	≤20.97	PASS
3DH5	Ant1	2480	1.87	≤20.97	PASS

Test Graphs





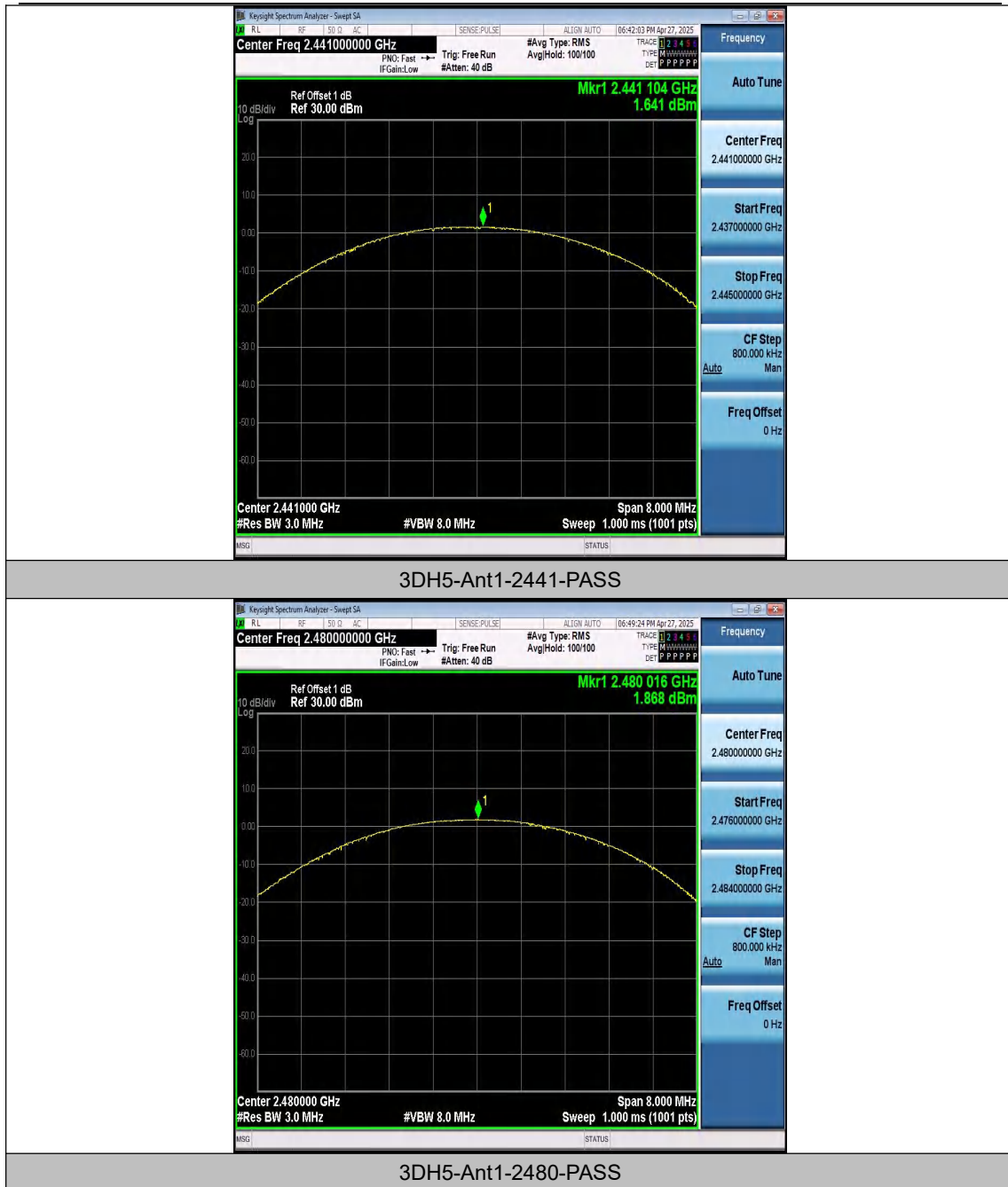




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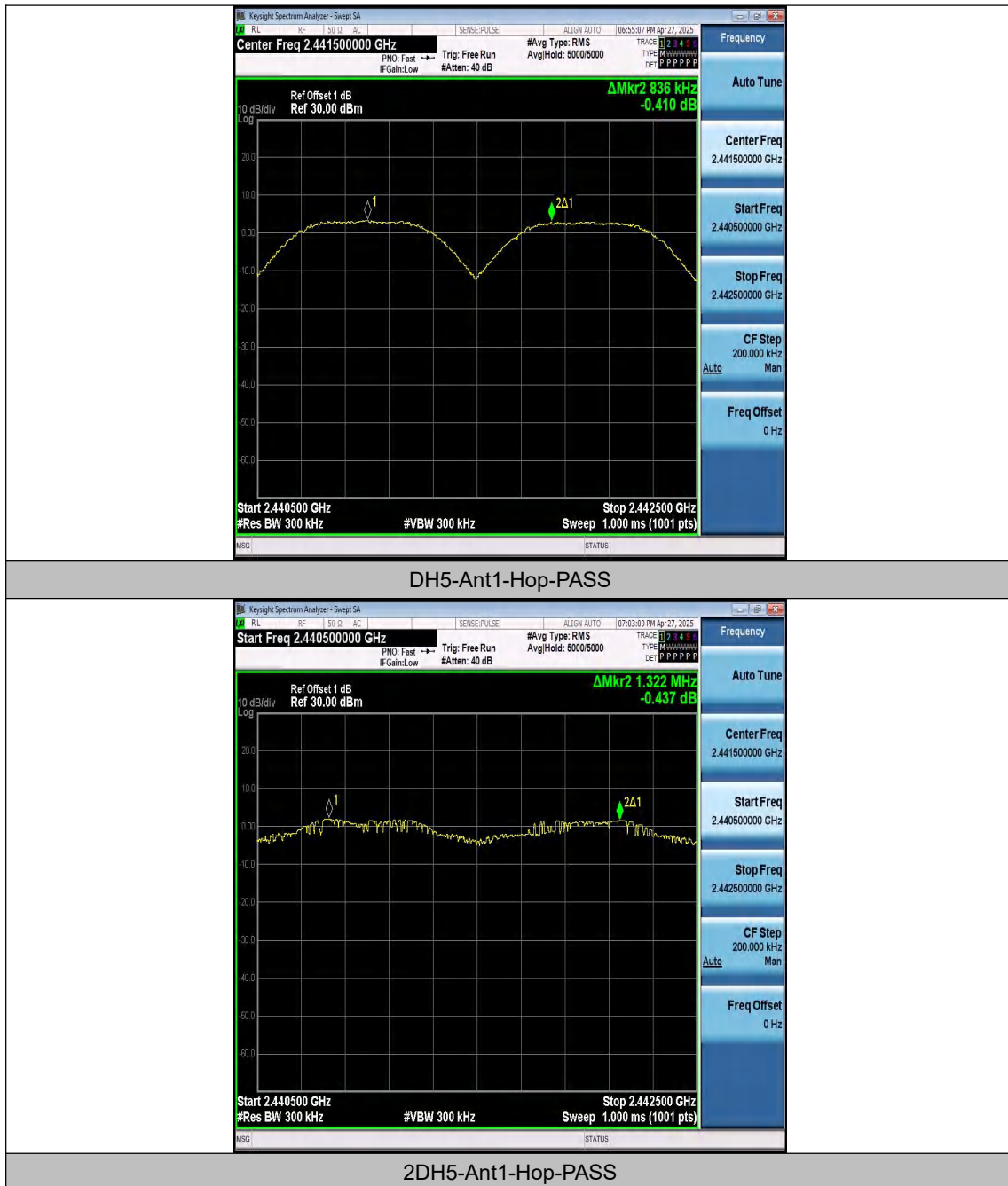
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.836	≥ 0.570	PASS
2DH5	Ant1	Hop	1.322	≥ 1.278	PASS
3DH5	Ant1	Hop	1.298	≥ 1.278	PASS



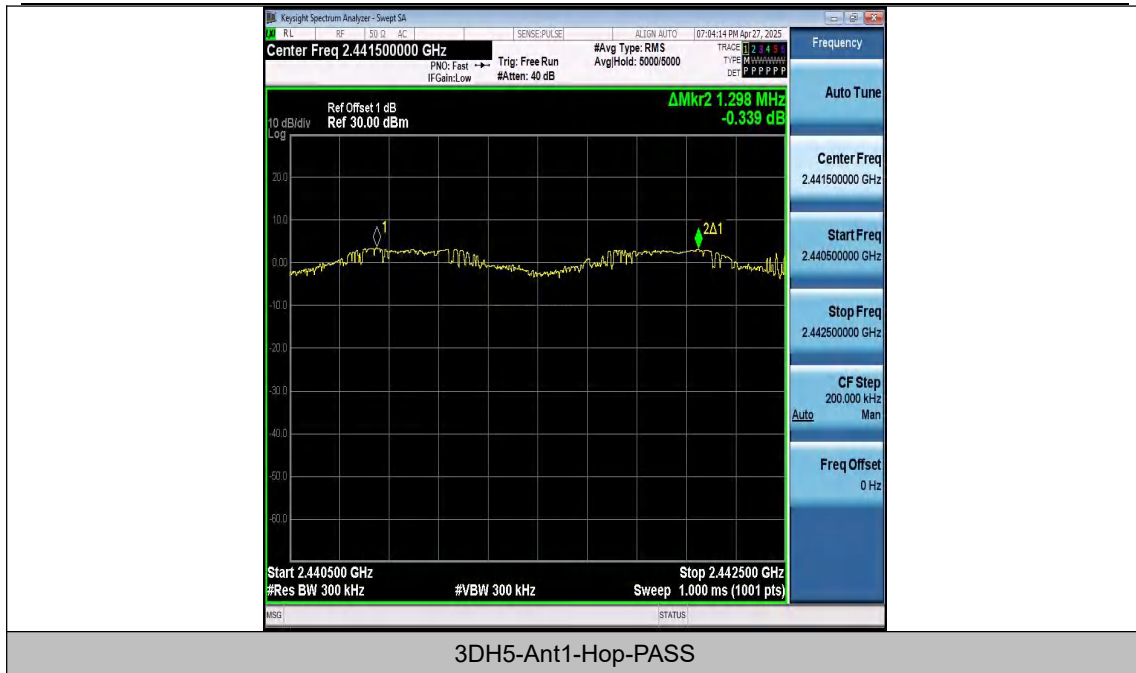
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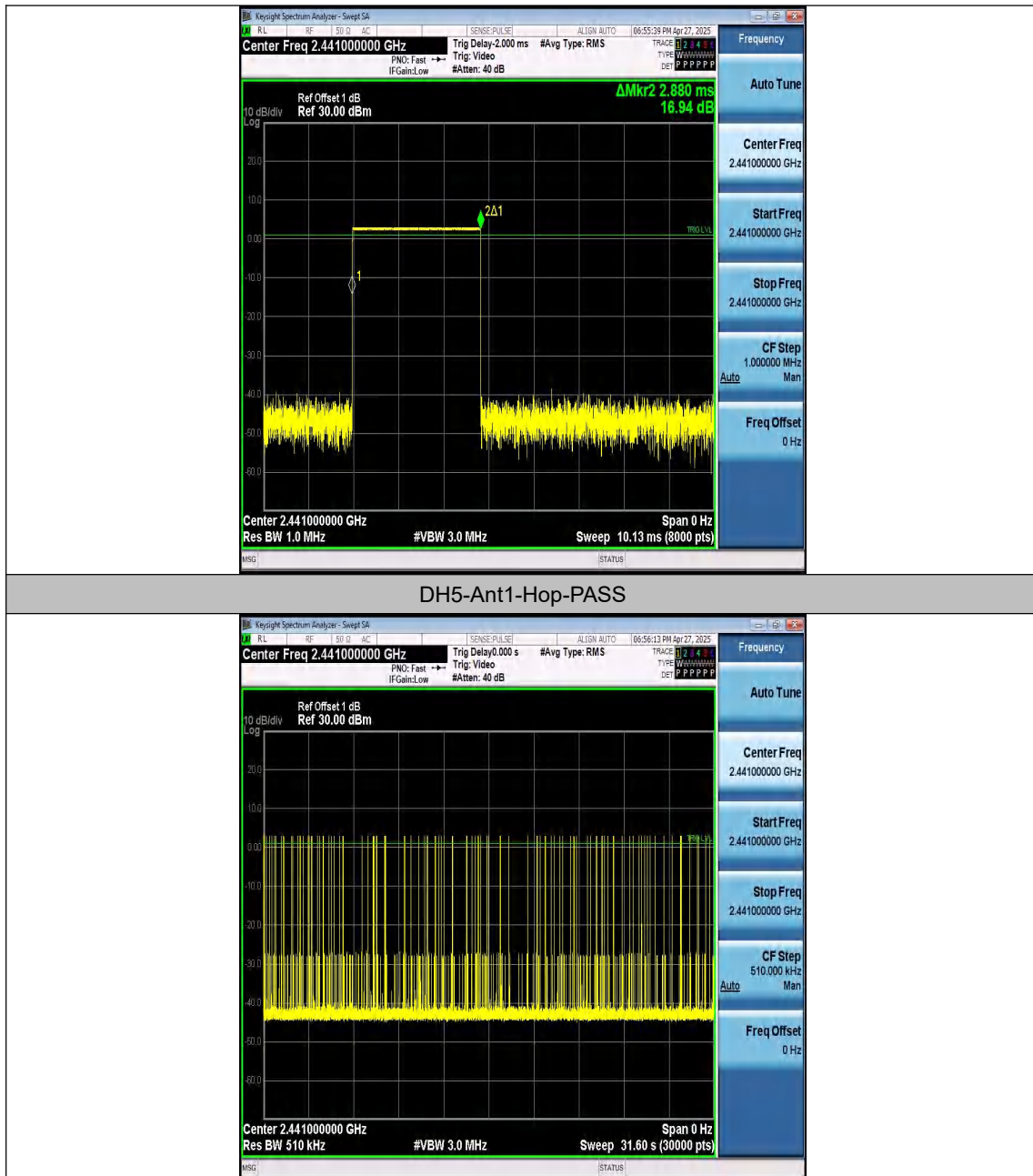
Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.880	102	0.294	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106	0.306	≤0.4	PASS
3DH5	Ant1	Hop	2.885	108	0.312	≤0.4	PASS



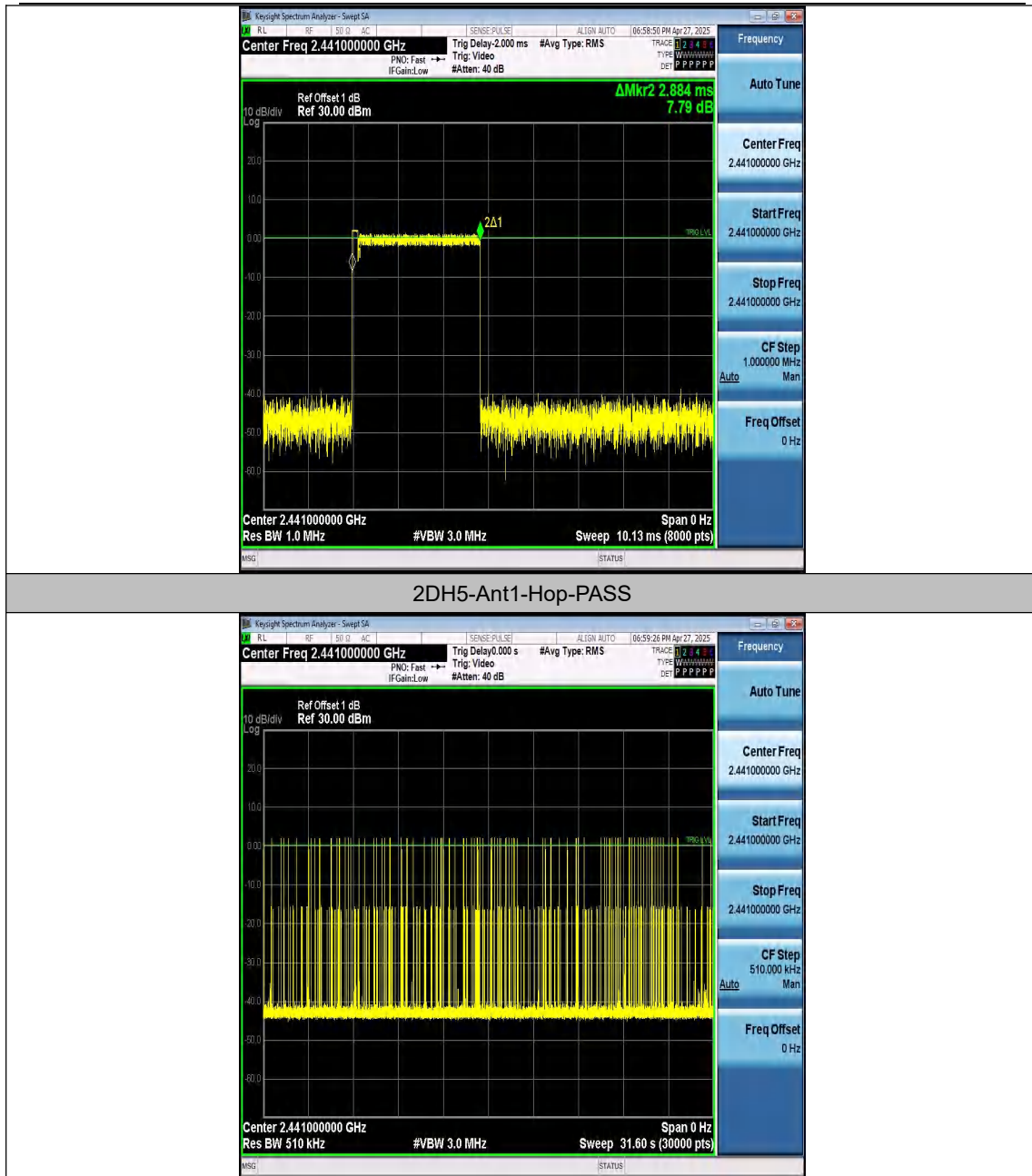
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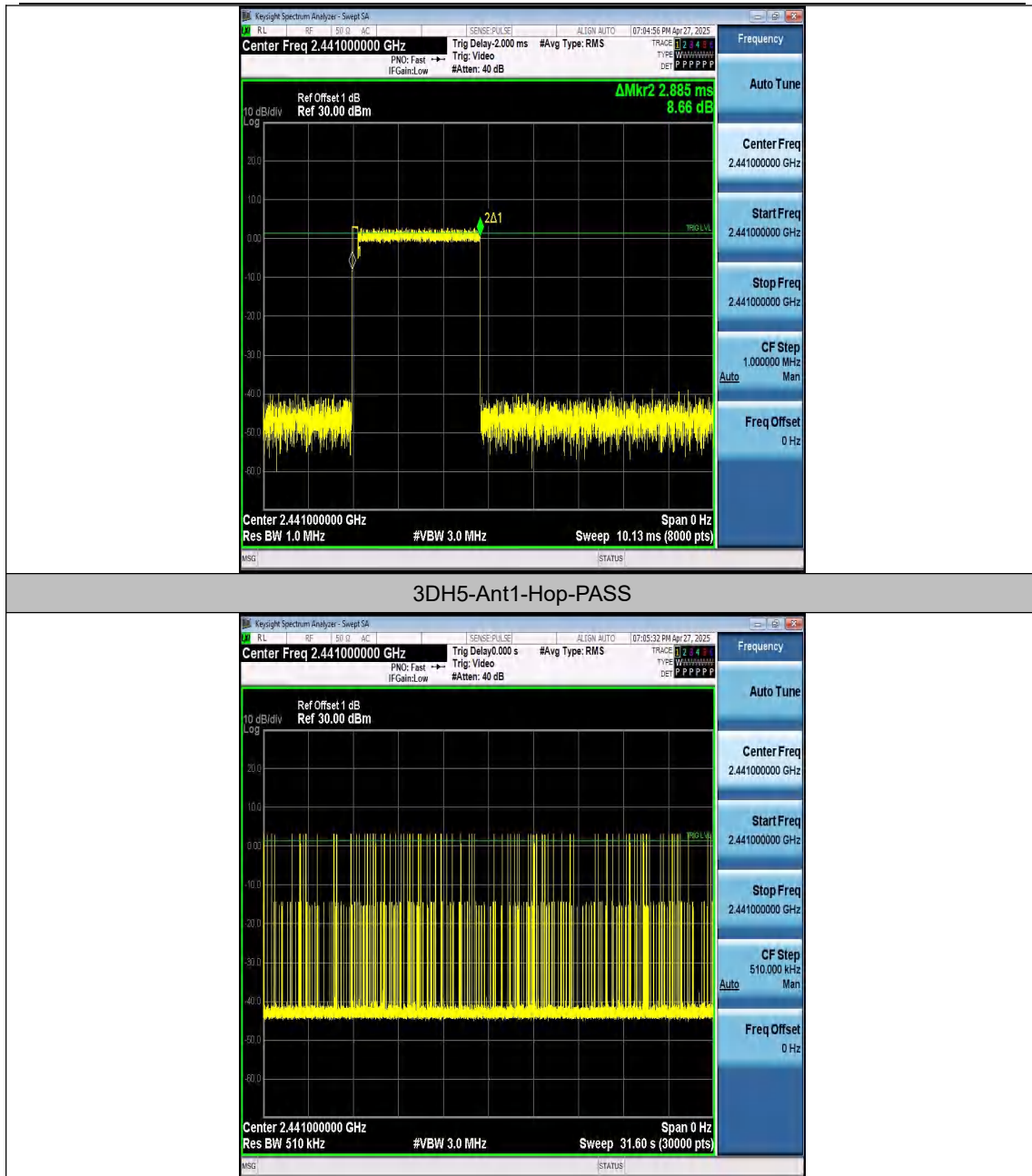


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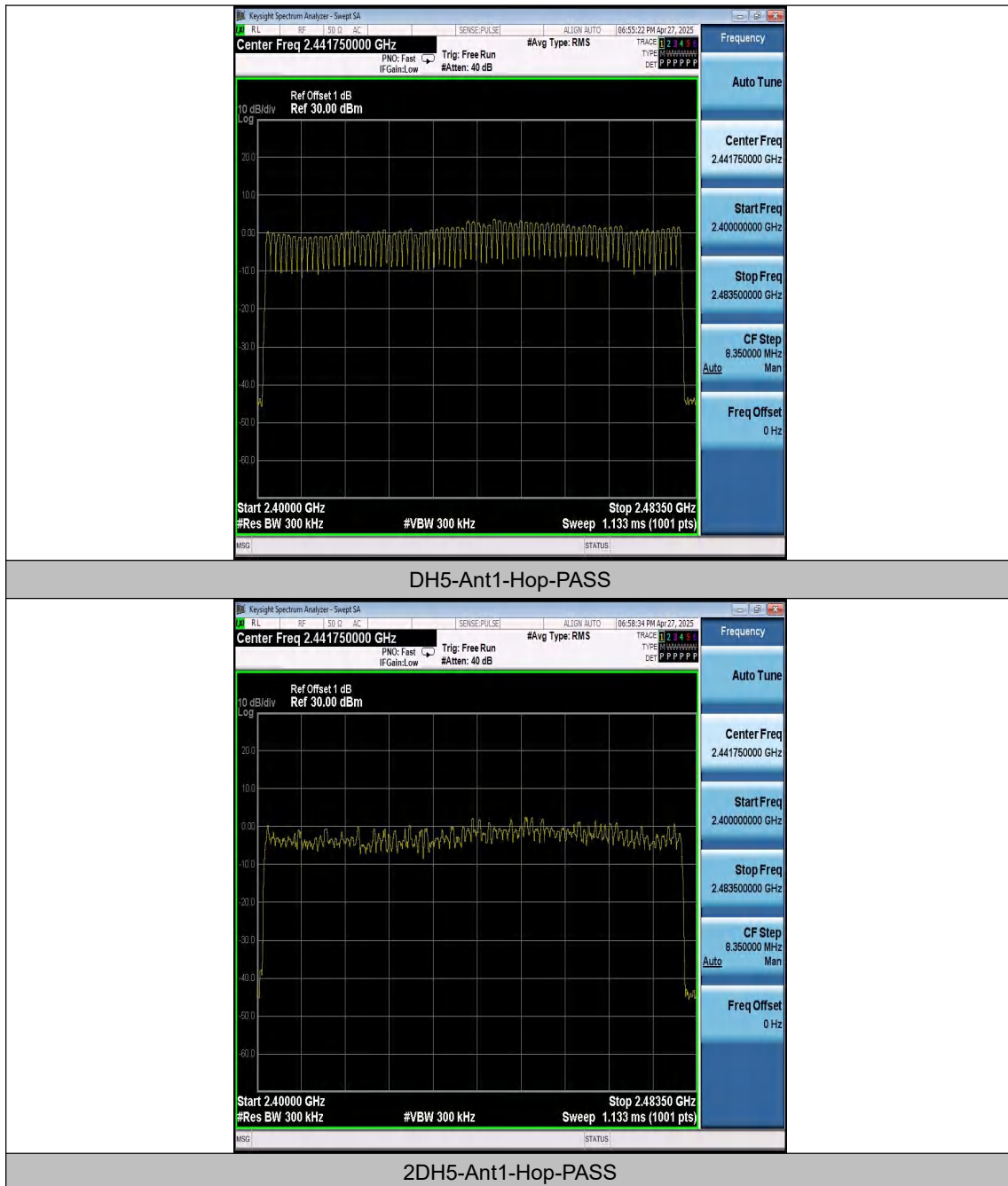
Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



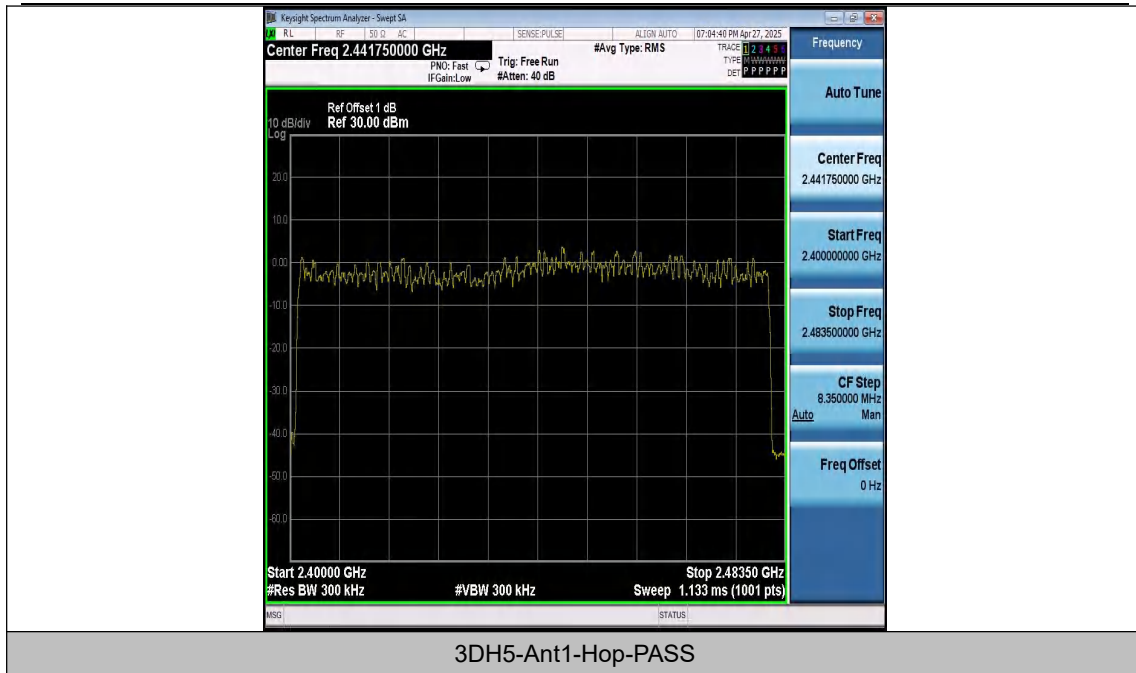
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Appendix G: Conducted Band edge

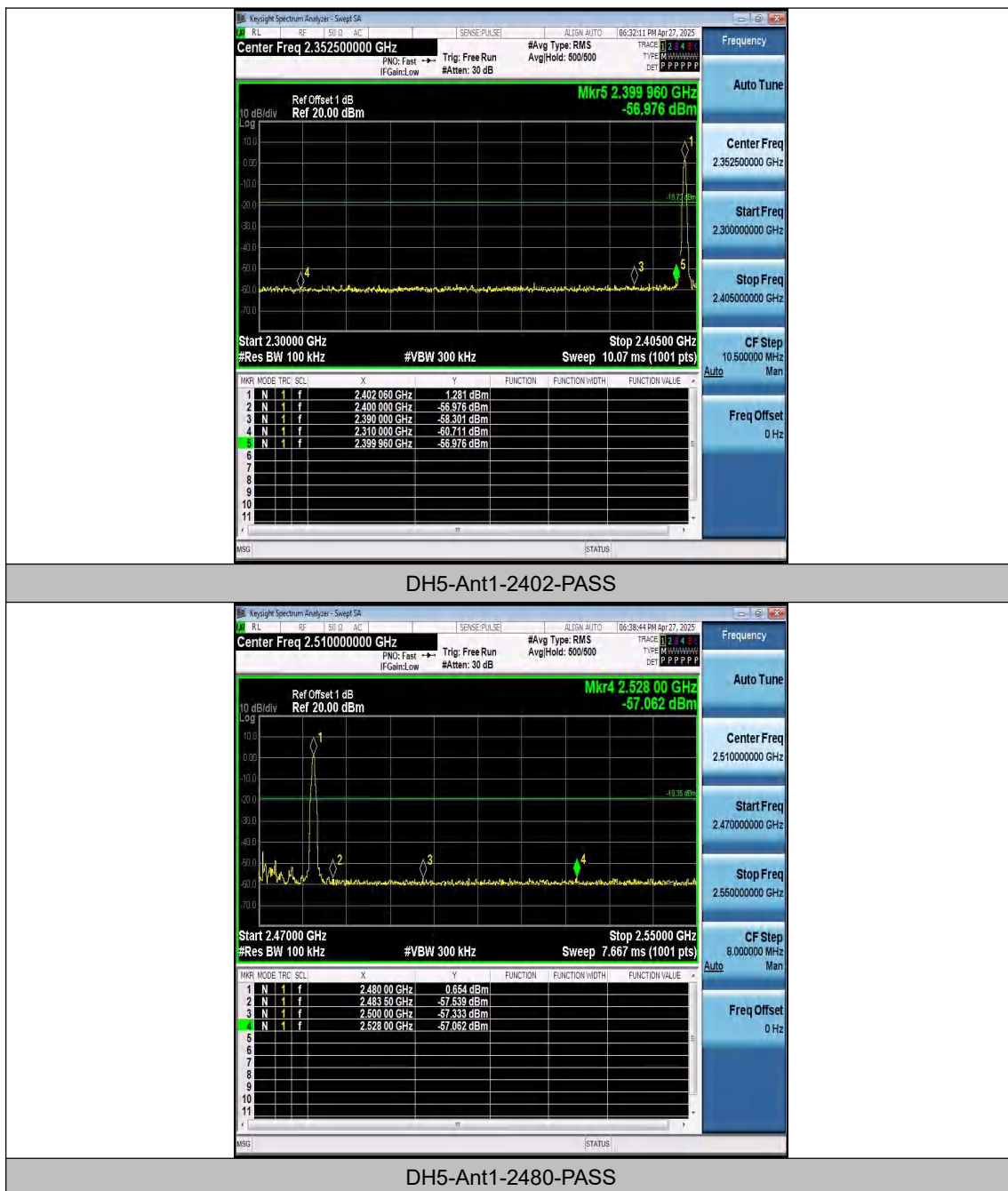
Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.28	-56.98	≤-18.72	PASS
DH5	Ant1	High	2480	0.65	-57.06	≤-19.35	PASS
DH5	Ant1	Low	Hop_2402	0.11	-57.3	≤-19.9	PASS
DH5	Ant1	High	Hop_2480	1.33	-56.87	≤-18.67	PASS
2DH5	Ant1	Low	2402	0.13	-48.84	≤-19.87	PASS
2DH5	Ant1	High	2480	1.70	-56.91	≤-18.3	PASS
2DH5	Ant1	Low	Hop_2402	-2.69	-52.55	≤-22.69	PASS
2DH5	Ant1	High	Hop_2480	-1.75	-56.92	≤-21.75	PASS
3DH5	Ant1	Low	2402	1.45	-47.55	≤-18.55	PASS
3DH5	Ant1	High	2480	1.64	-56.81	≤-18.36	PASS
3DH5	Ant1	Low	Hop_2402	-4.64	-50.86	≤-24.64	PASS
3DH5	Ant1	High	Hop_2480	4.03	-56.77	≤-15.97	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.



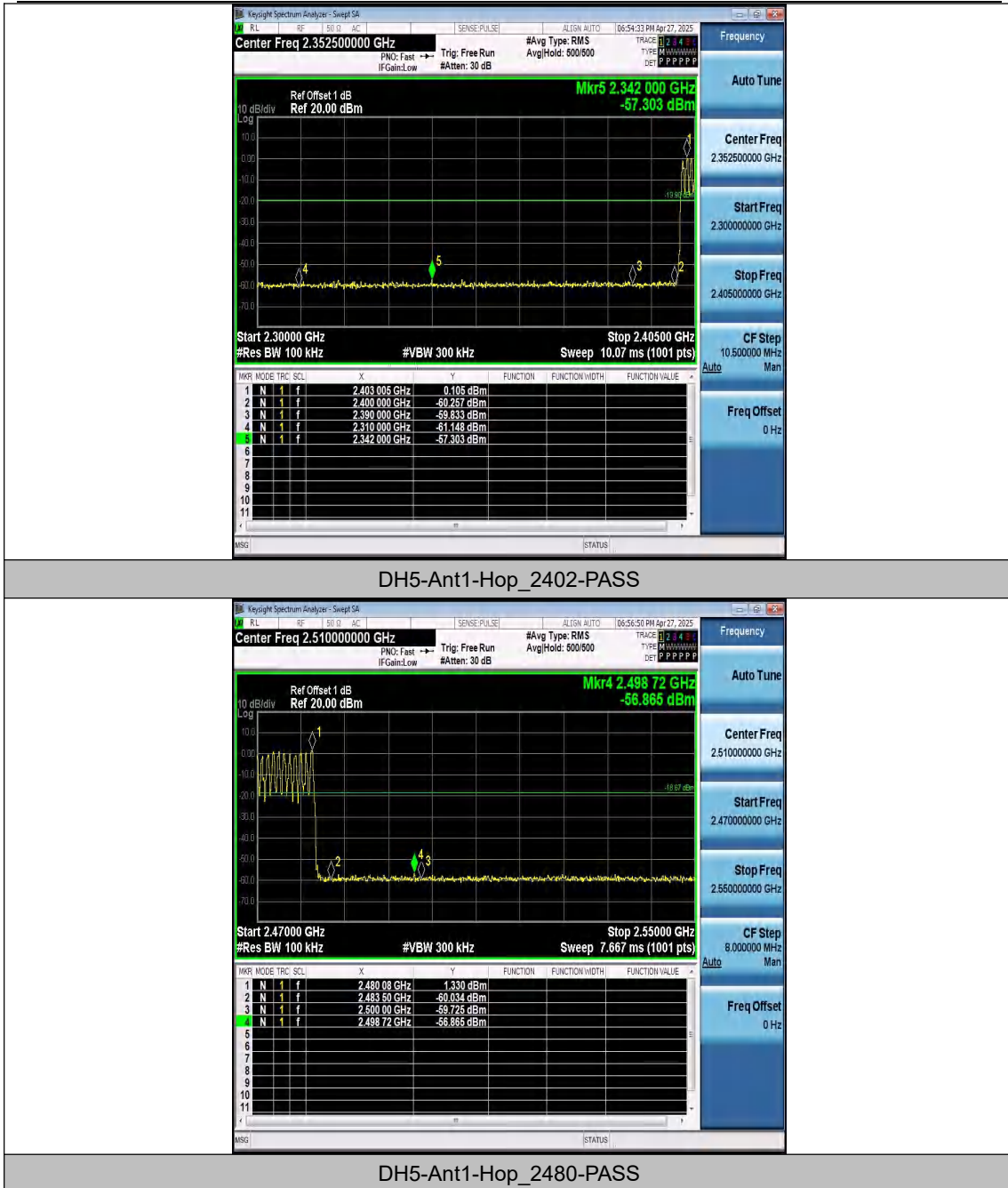
Test Graphs

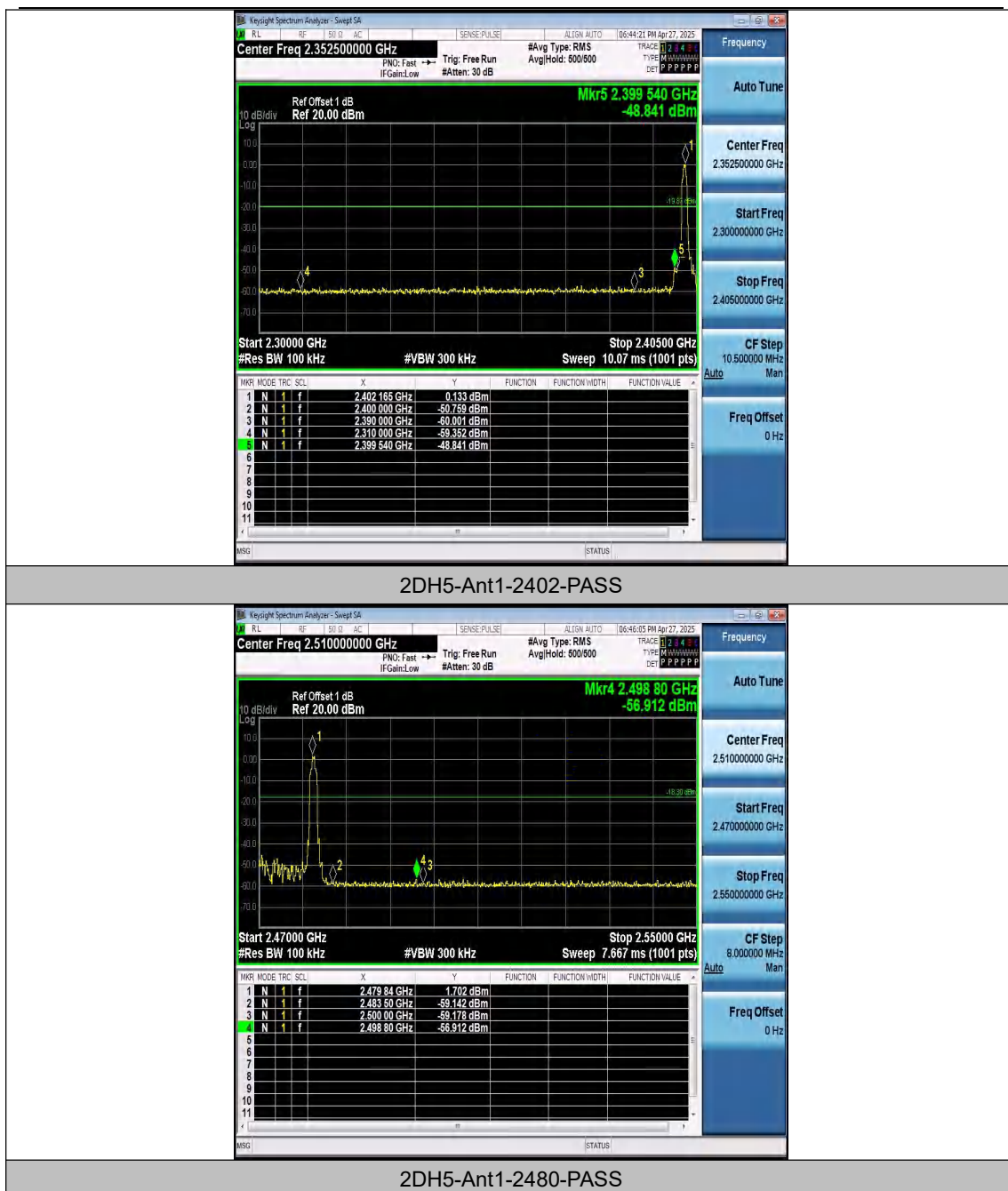


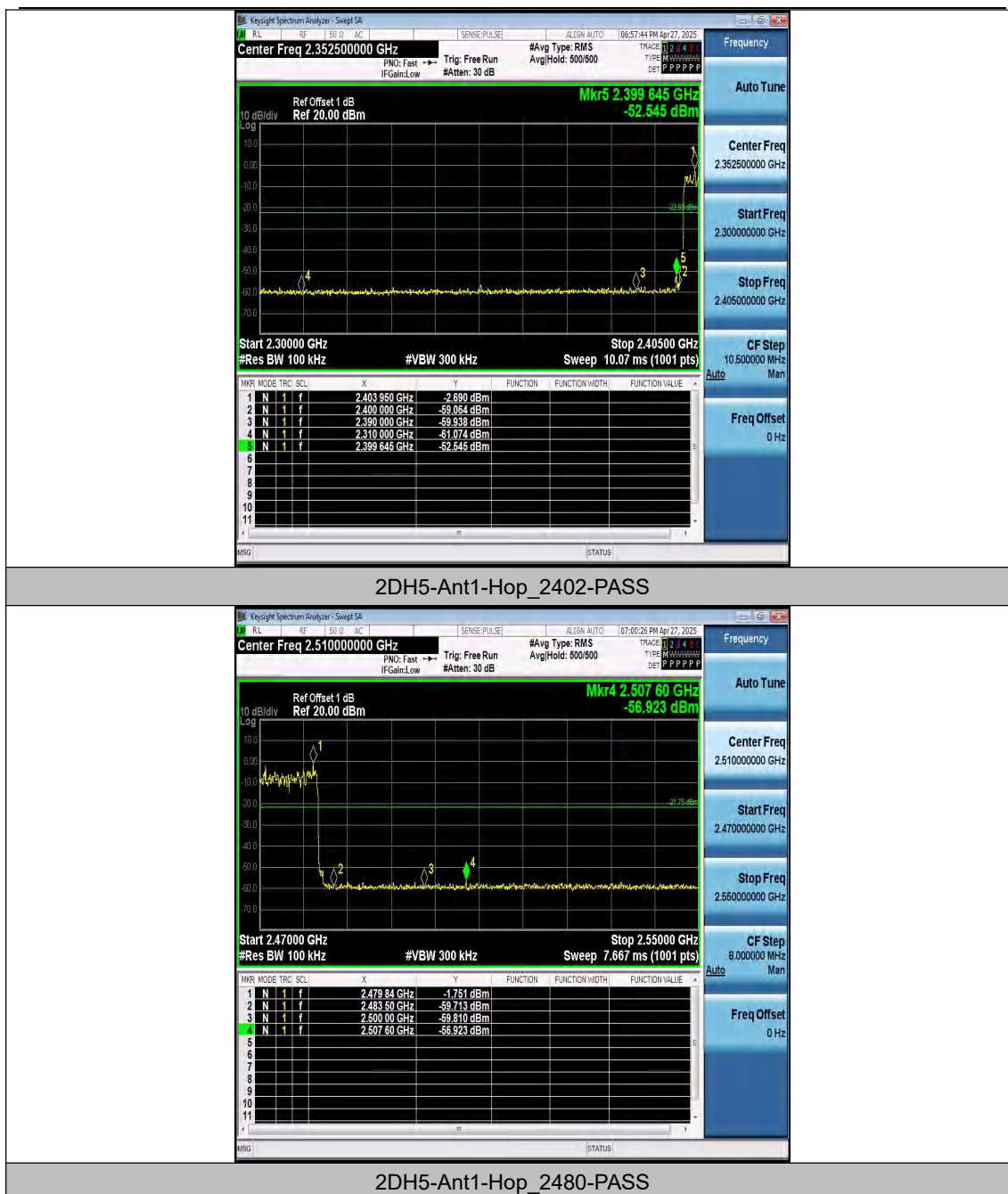
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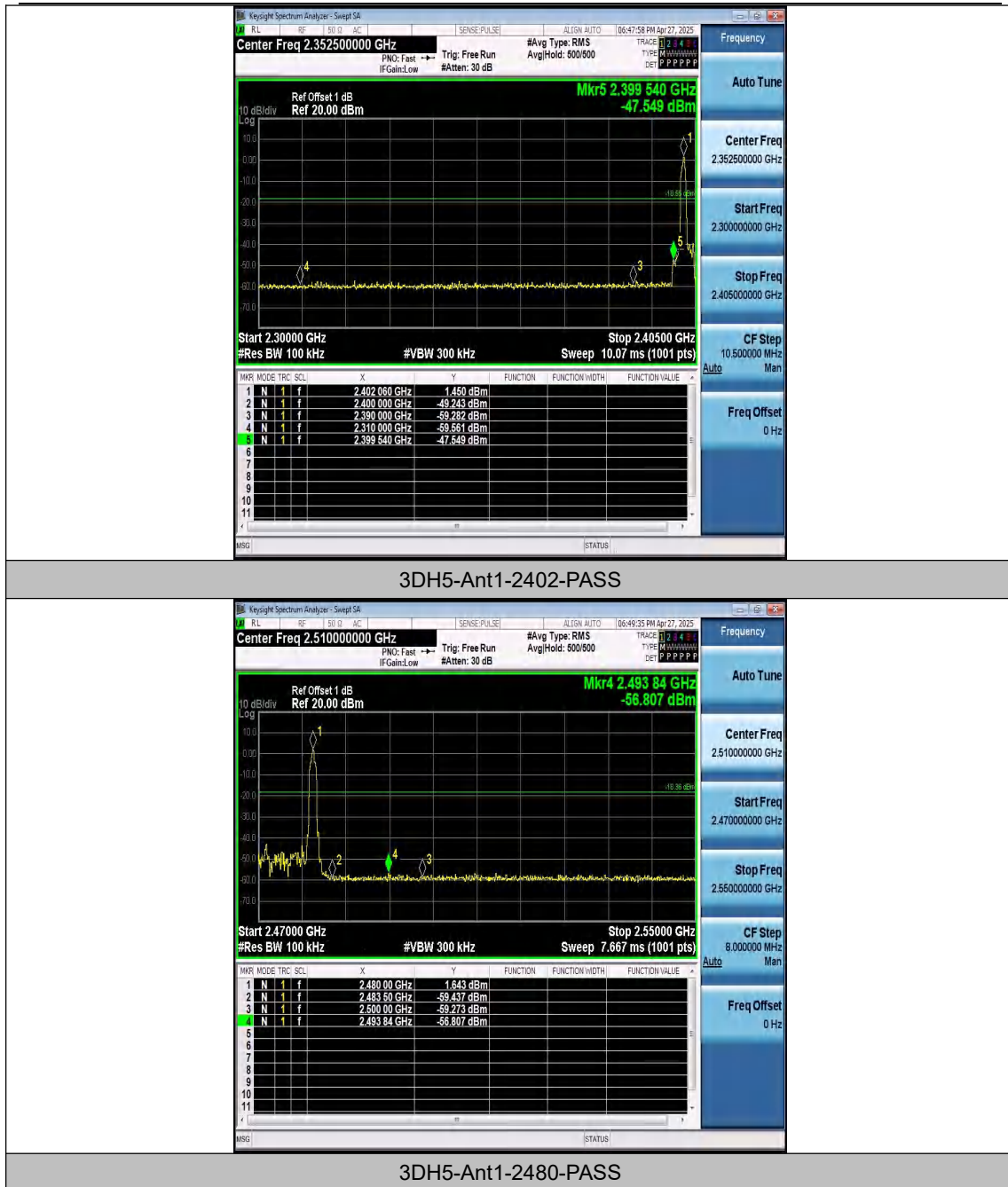
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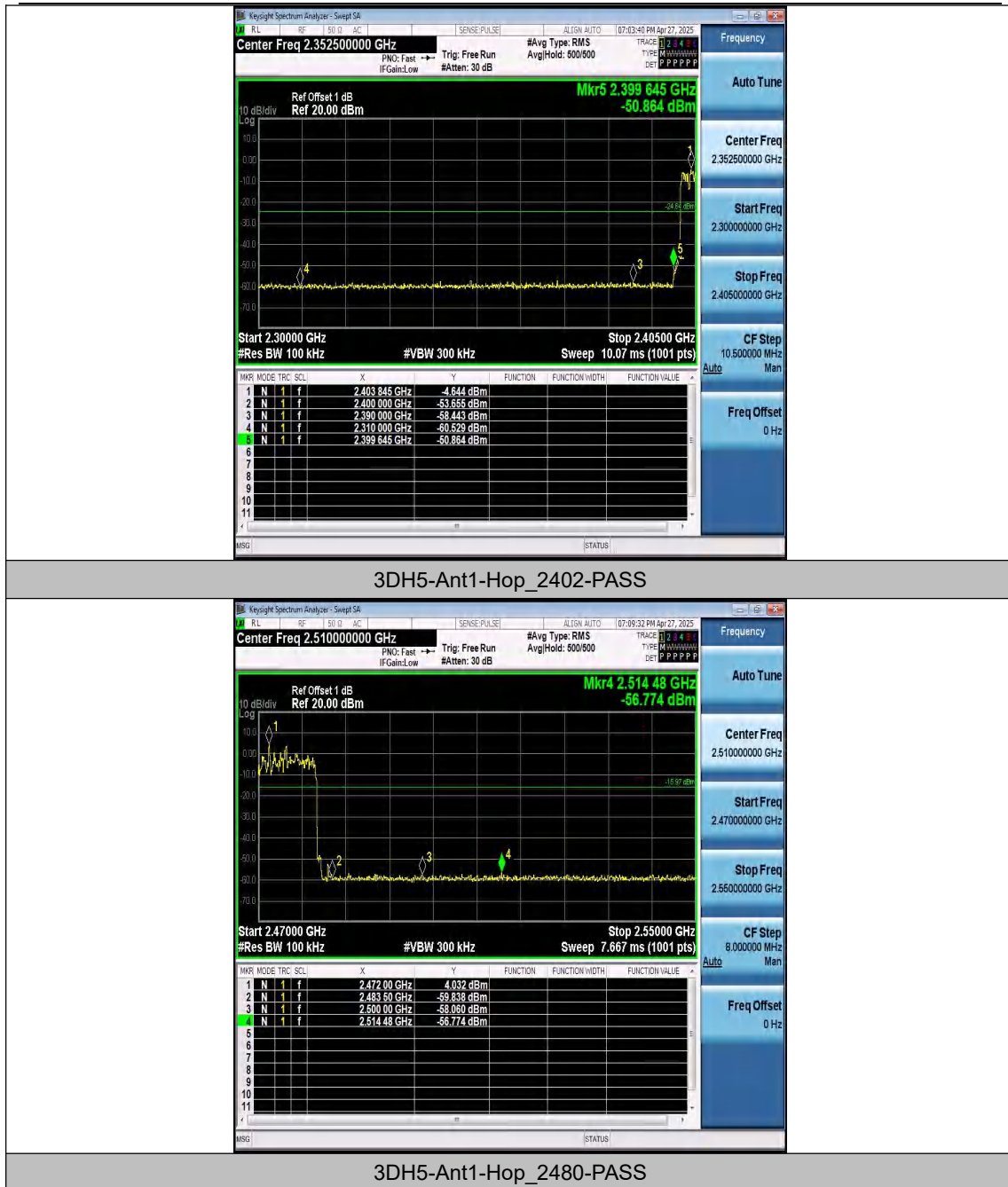


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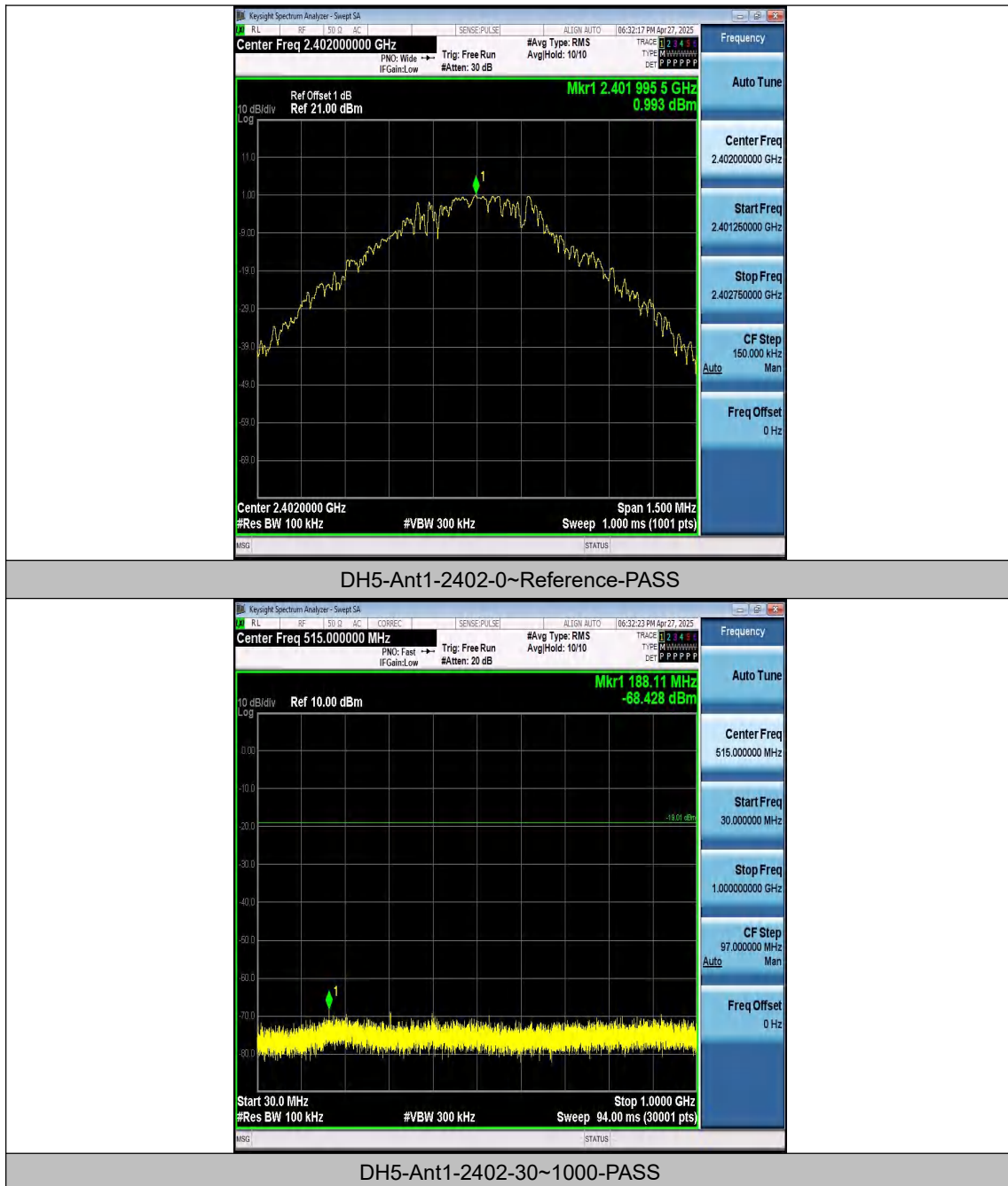
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	0.99	0.99	---	PASS
DH5	Ant1	2402	30~1000	0.99	-68.43	≤-19.01	PASS
DH5	Ant1	2402	1000~26500	0.99	-50.69	≤-19.01	PASS
DH5	Ant1	2441	0~Reference	2.02	2.02	---	PASS
DH5	Ant1	2441	30~1000	2.02	-68.18	≤-17.98	PASS
DH5	Ant1	2441	1000~26500	2.02	-49.43	≤-17.98	PASS
DH5	Ant1	2480	0~Reference	-0.15	-0.15	---	PASS
DH5	Ant1	2480	30~1000	-0.15	-68.37	≤-20.15	PASS
DH5	Ant1	2480	1000~26500	-0.15	-49.43	≤-20.15	PASS
2DH5	Ant1	2402	0~Reference	-2.07	-2.07	---	PASS
2DH5	Ant1	2402	30~1000	-2.07	-56.55	≤-22.07	PASS
2DH5	Ant1	2402	1000~26500	-2.07	-47.82	≤-22.07	PASS
2DH5	Ant1	2441	0~Reference	-4.08	-4.08	---	PASS
2DH5	Ant1	2441	30~1000	-4.08	-68.51	≤-24.08	PASS
2DH5	Ant1	2441	1000~26500	-4.08	-48.67	≤-24.08	PASS
2DH5	Ant1	2480	0~Reference	-4.07	-4.07	---	PASS
2DH5	Ant1	2480	30~1000	-4.07	-69.14	≤-24.07	PASS
2DH5	Ant1	2480	1000~26500	-4.07	-53.33	≤-24.07	PASS
3DH5	Ant1	2402	0~Reference	-1.02	-1.02	---	PASS
3DH5	Ant1	2402	30~1000	-1.02	-69.19	≤-21.02	PASS
3DH5	Ant1	2402	1000~26500	-1.02	-53.72	≤-21.02	PASS
3DH5	Ant1	2441	0~Reference	-1.40	-1.40	---	PASS
3DH5	Ant1	2441	30~1000	-1.40	-68.38	≤-21.4	PASS
3DH5	Ant1	2441	1000~26500	-1.40	-53.66	≤-21.4	PASS
3DH5	Ant1	2480	0~Reference	-3.27	-3.27	---	PASS
3DH5	Ant1	2480	30~1000	-3.27	-69.03	≤-23.27	PASS
3DH5	Ant1	2480	1000~26500	-3.27	-47.15	≤-23.27	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

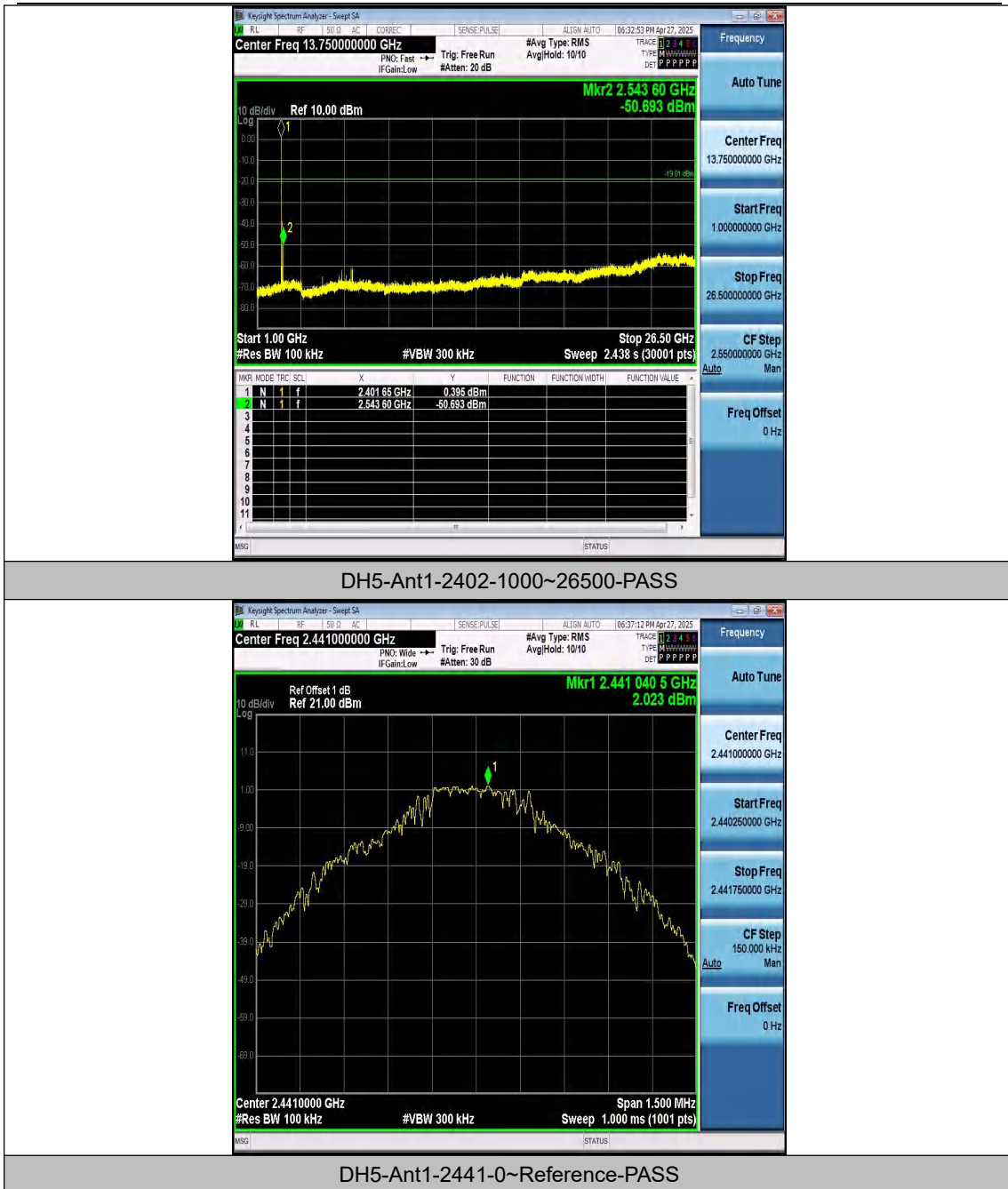
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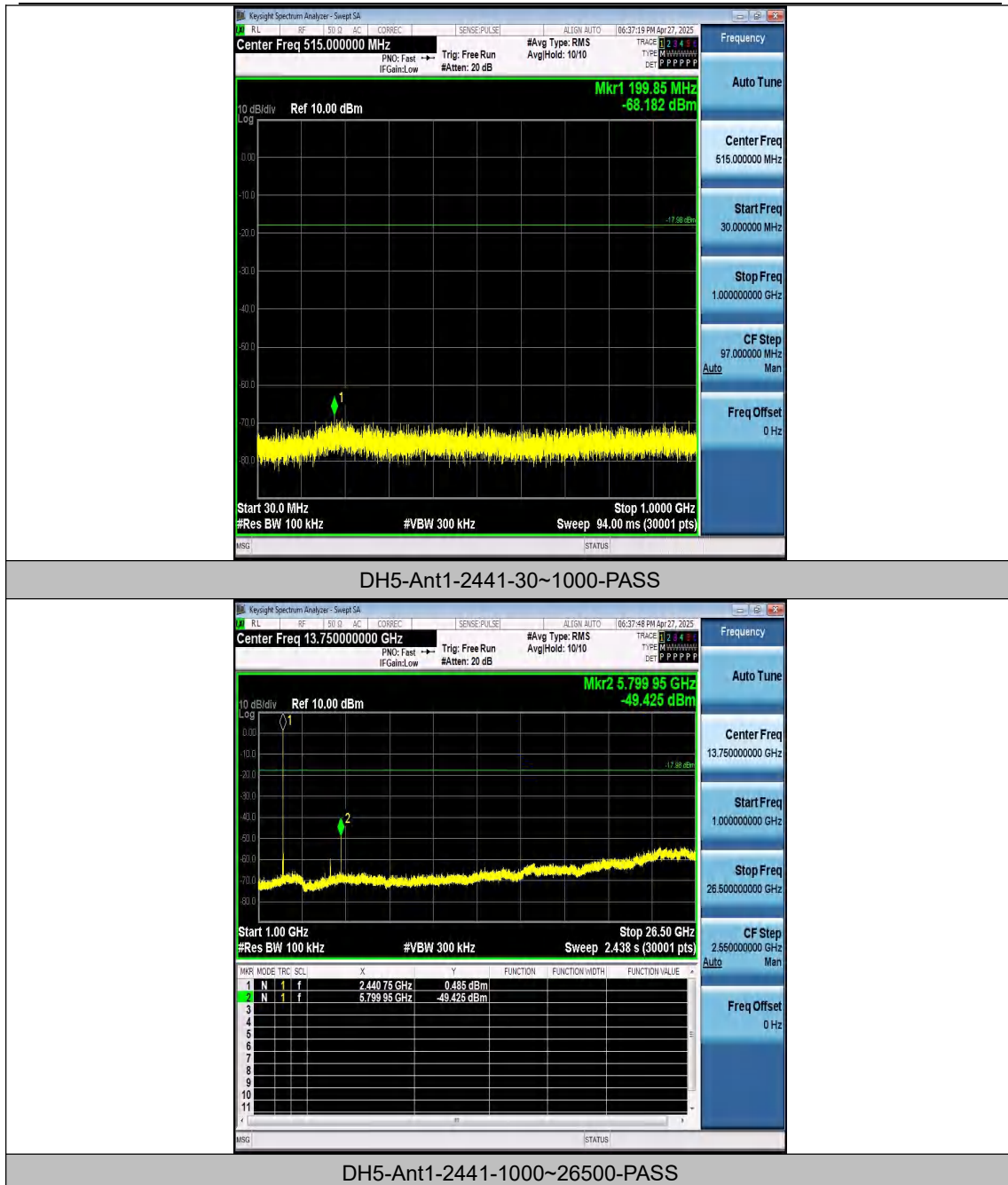
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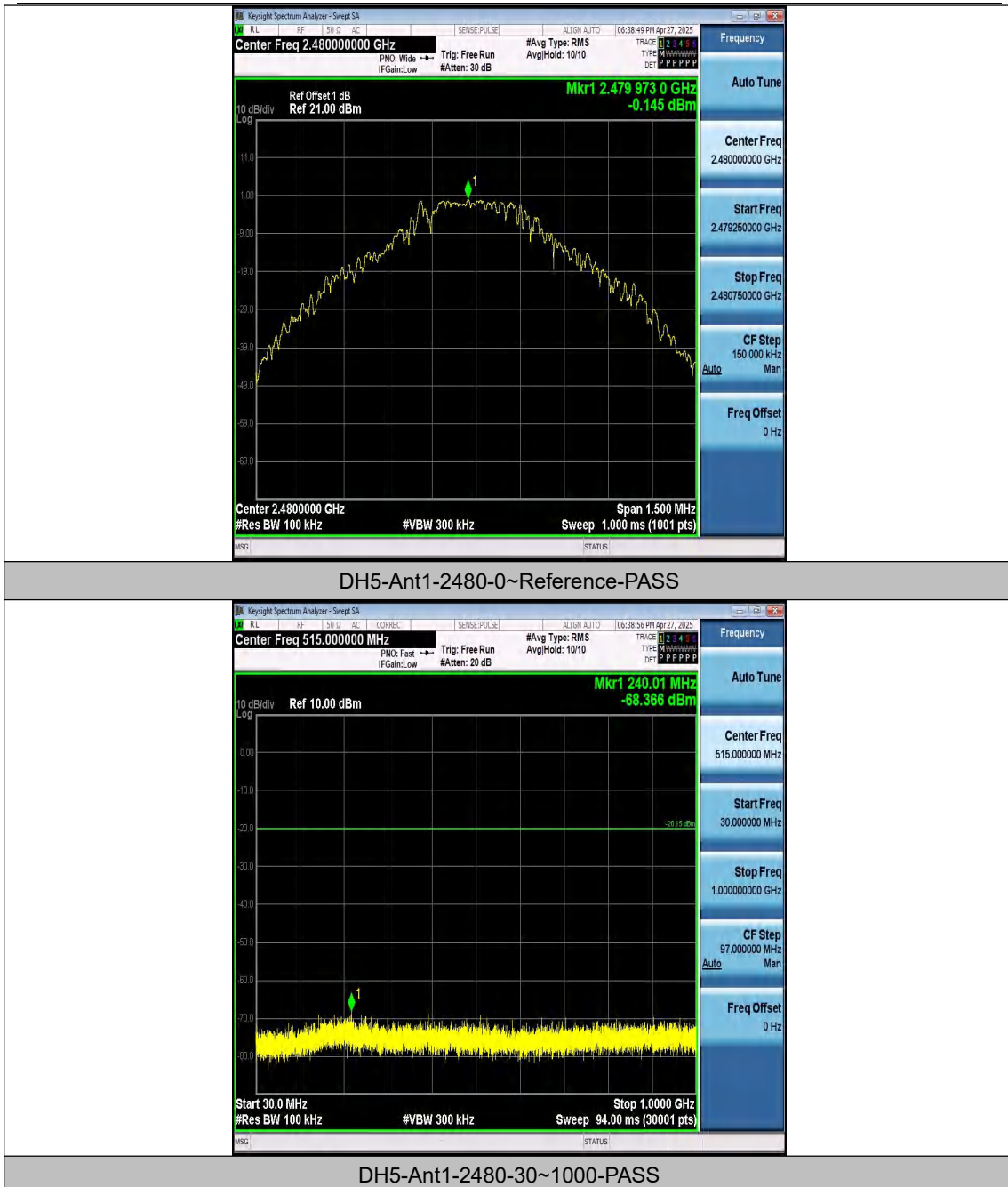


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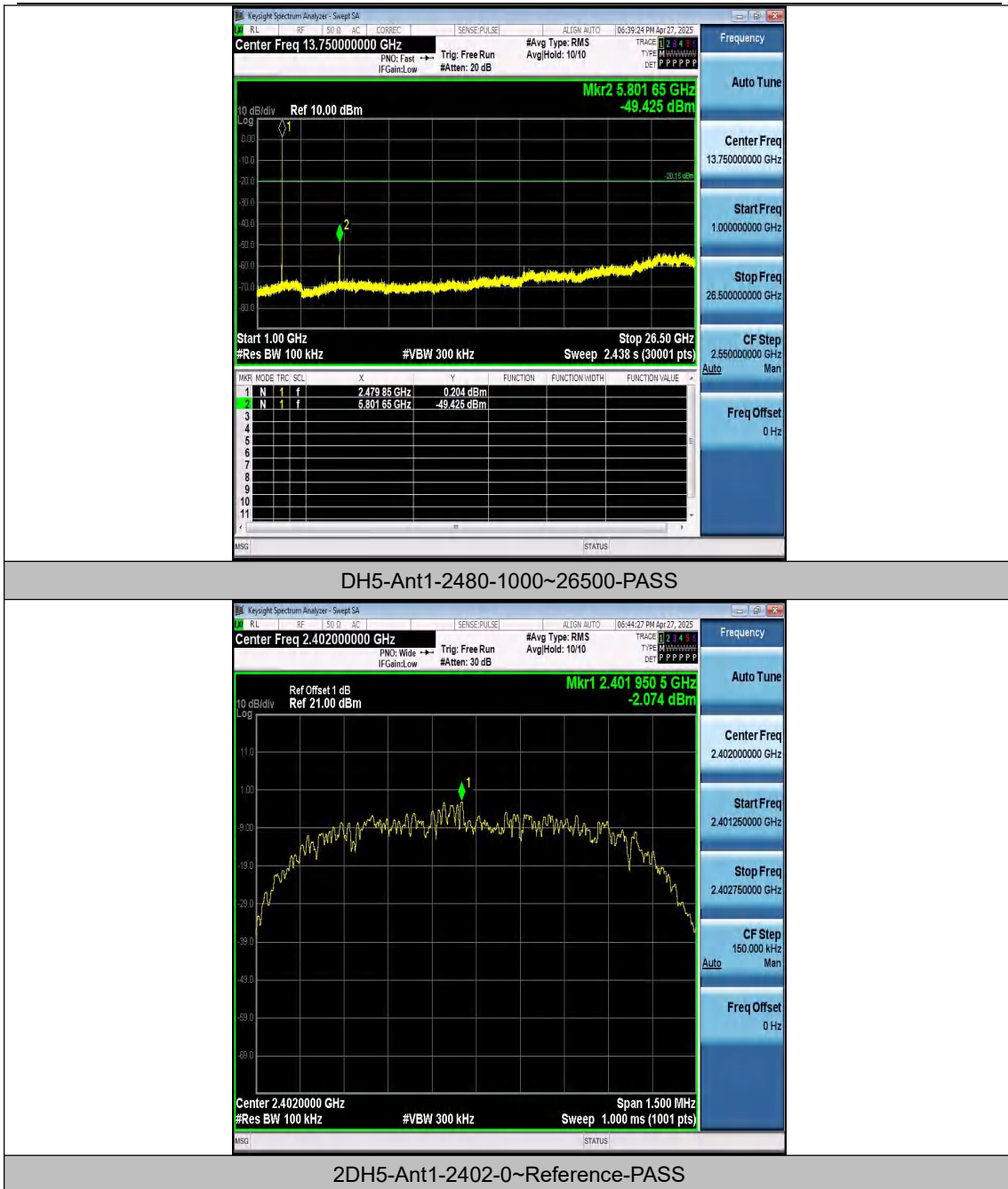




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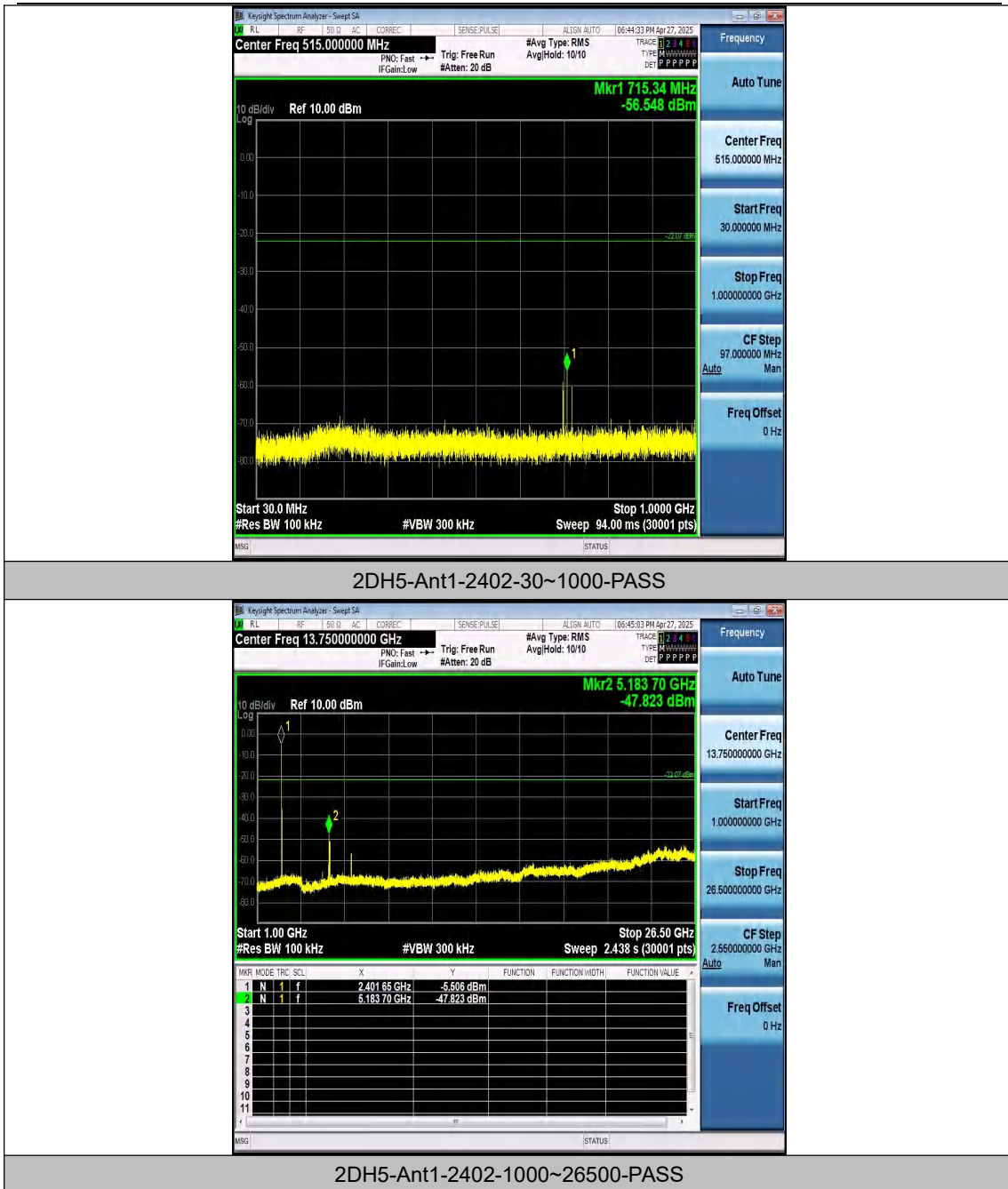
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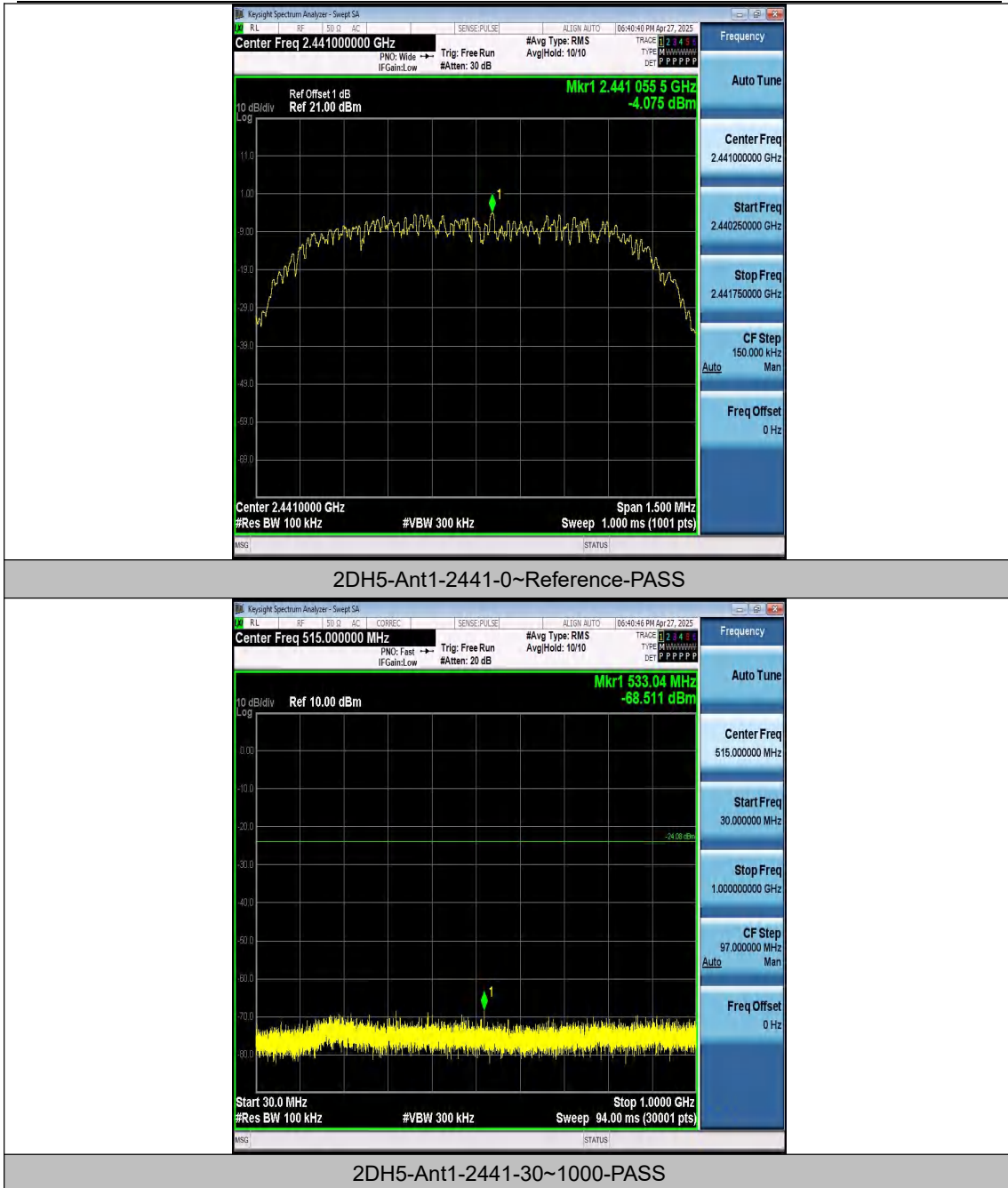


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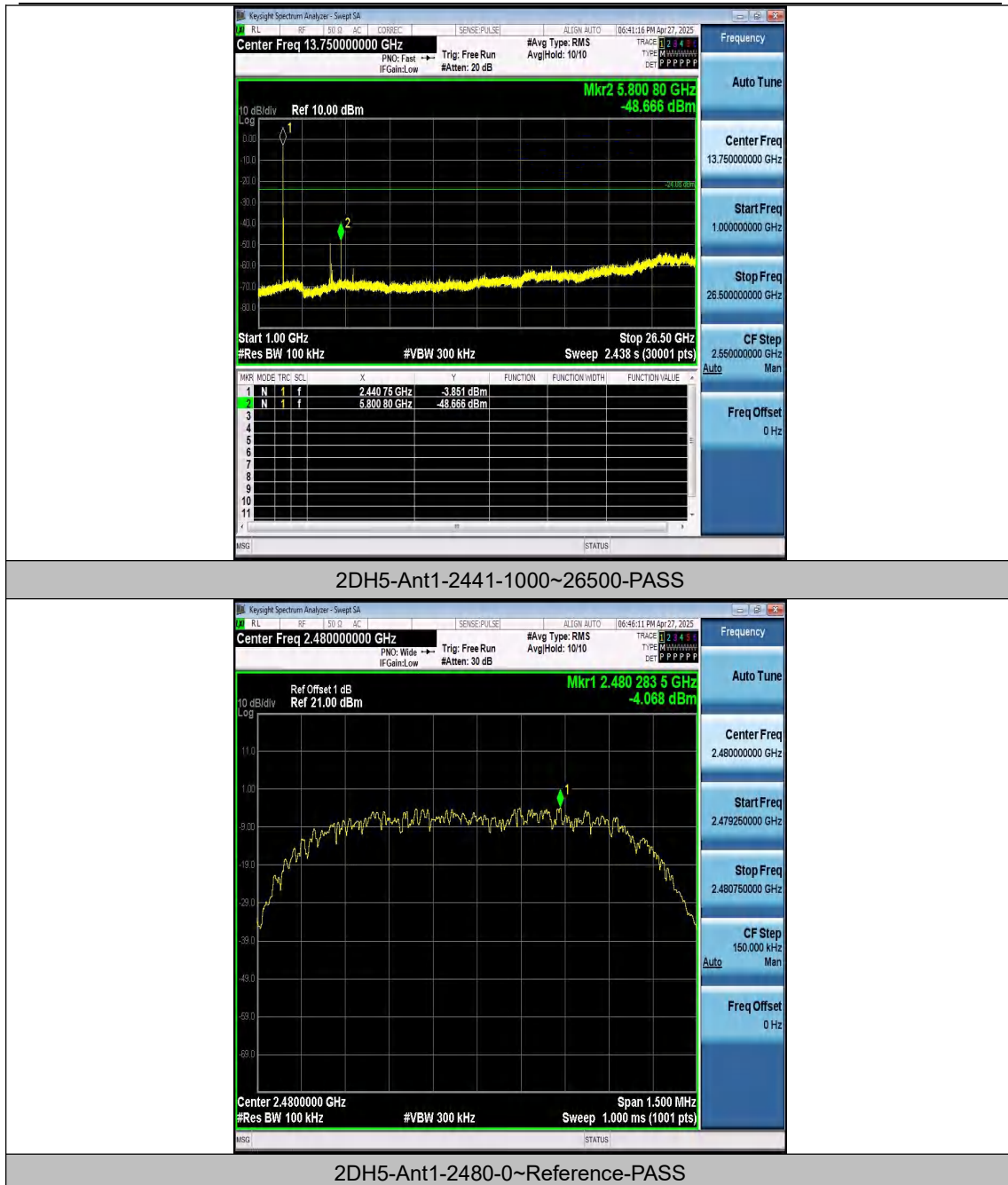


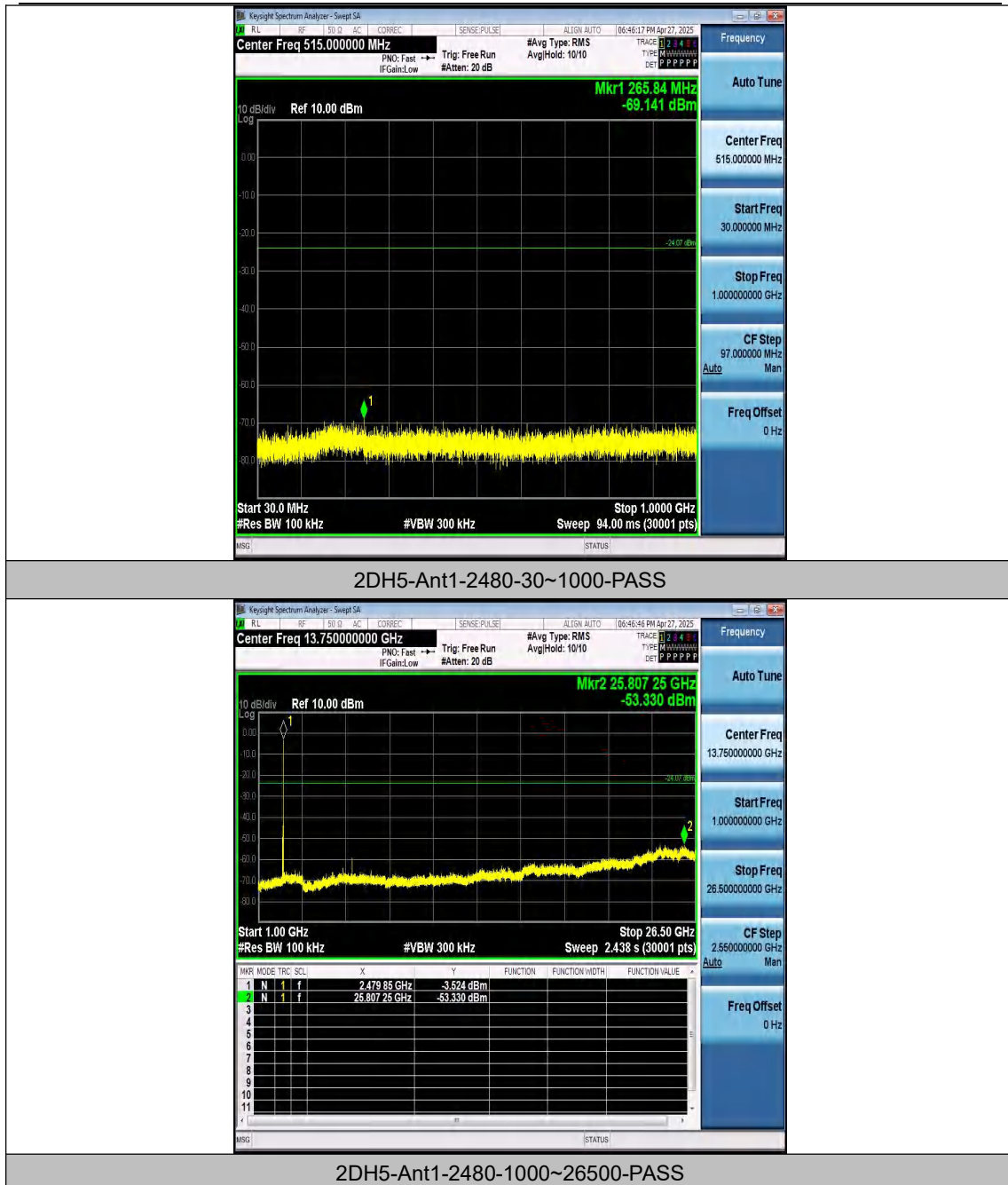


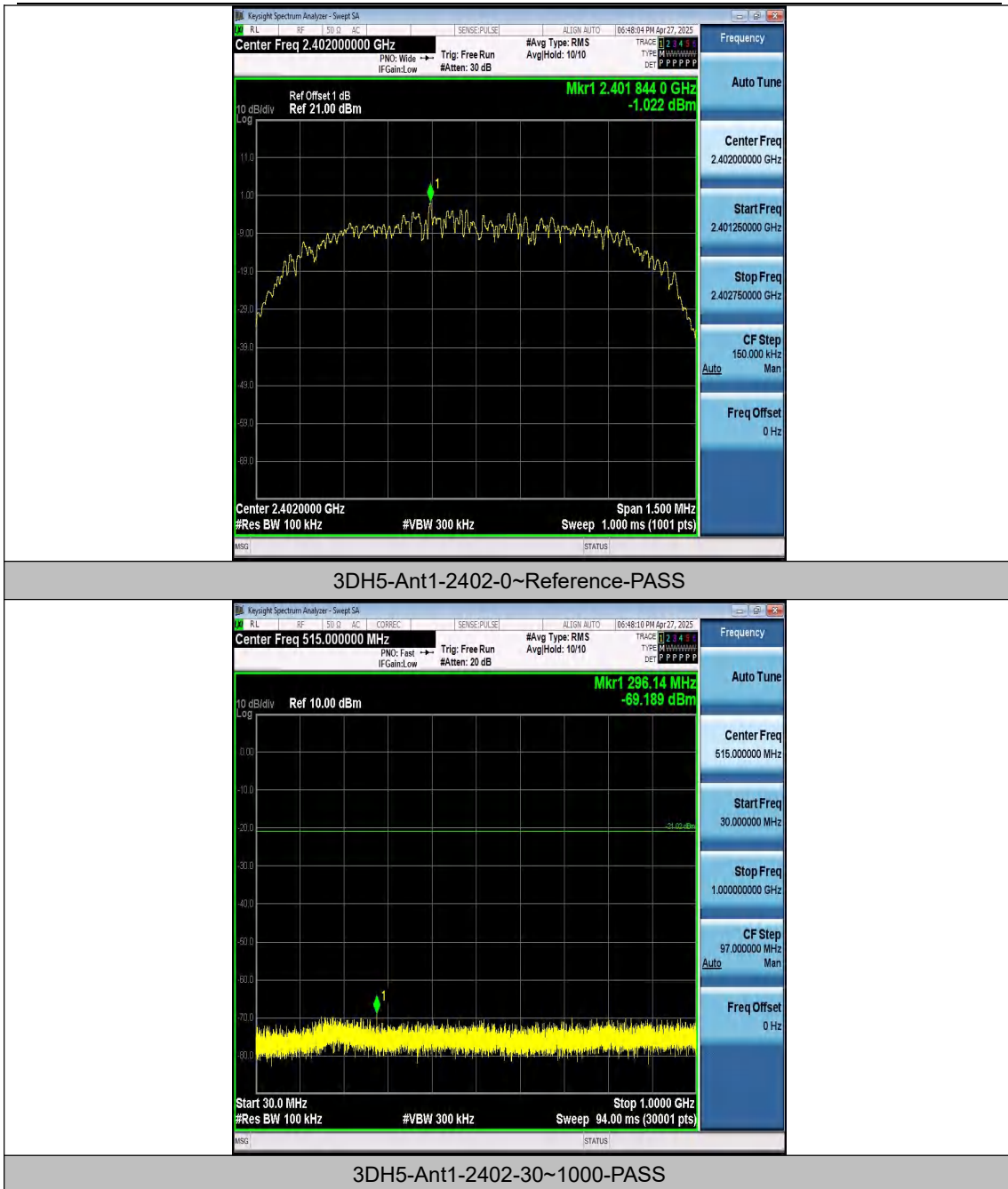
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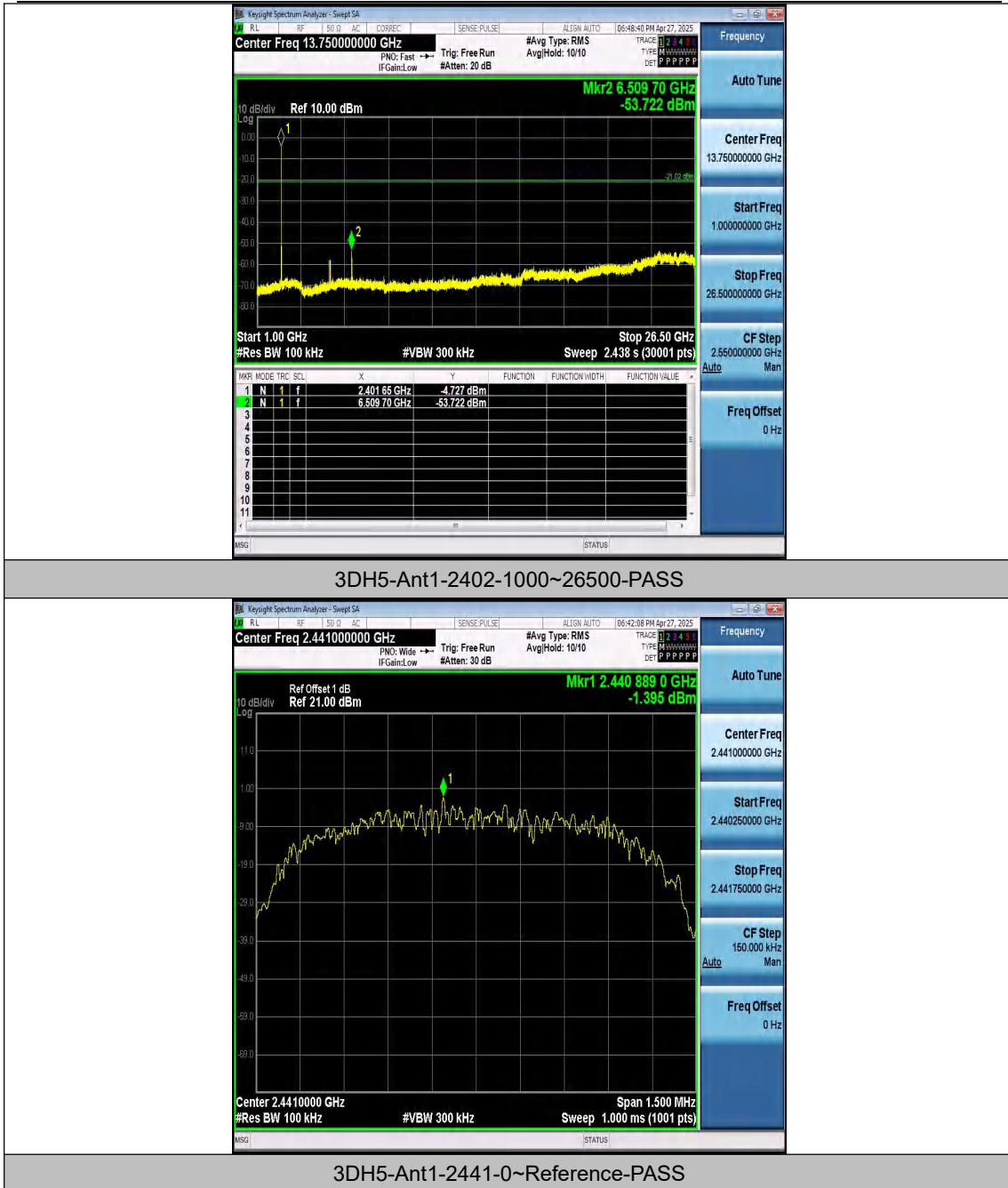




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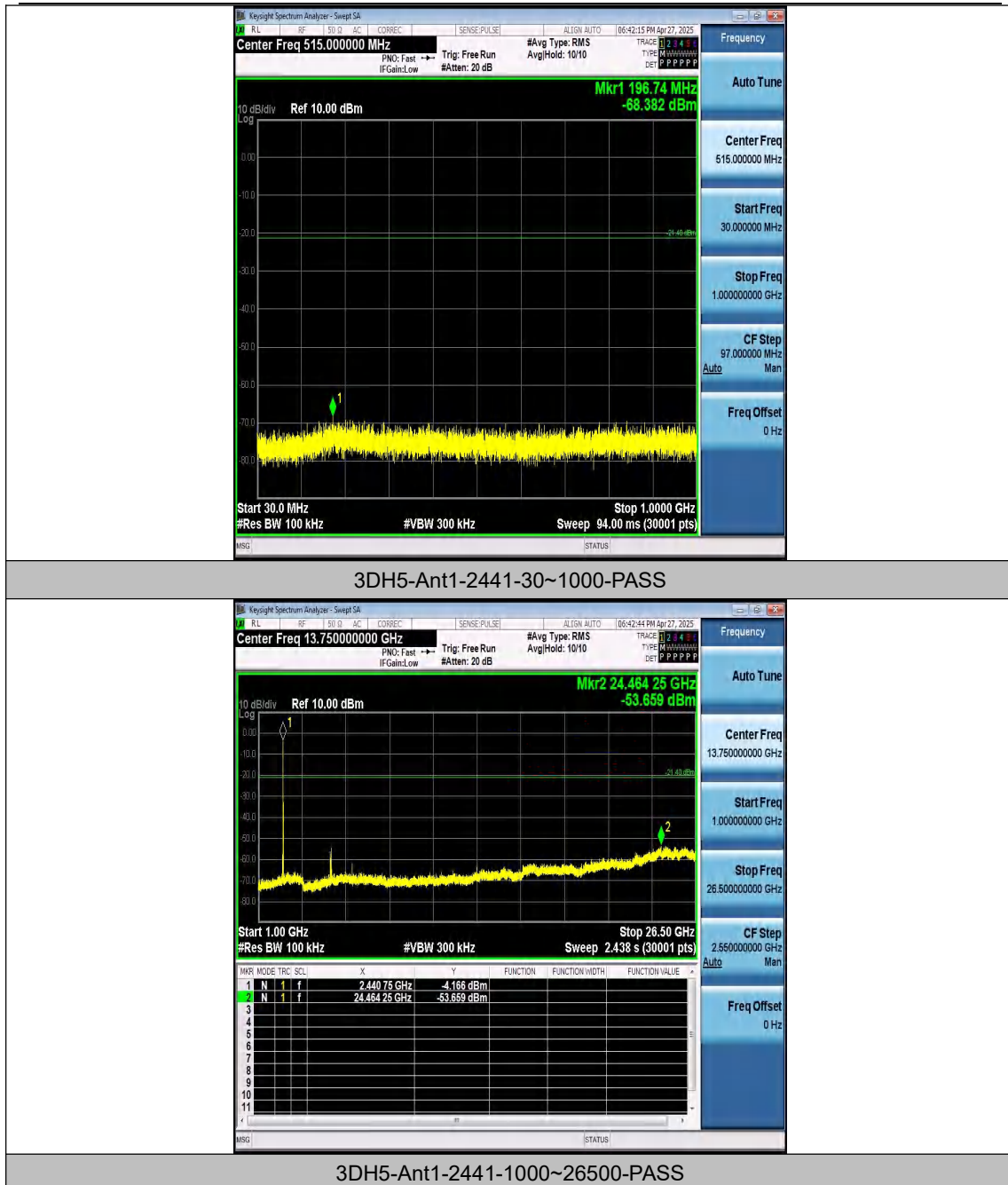


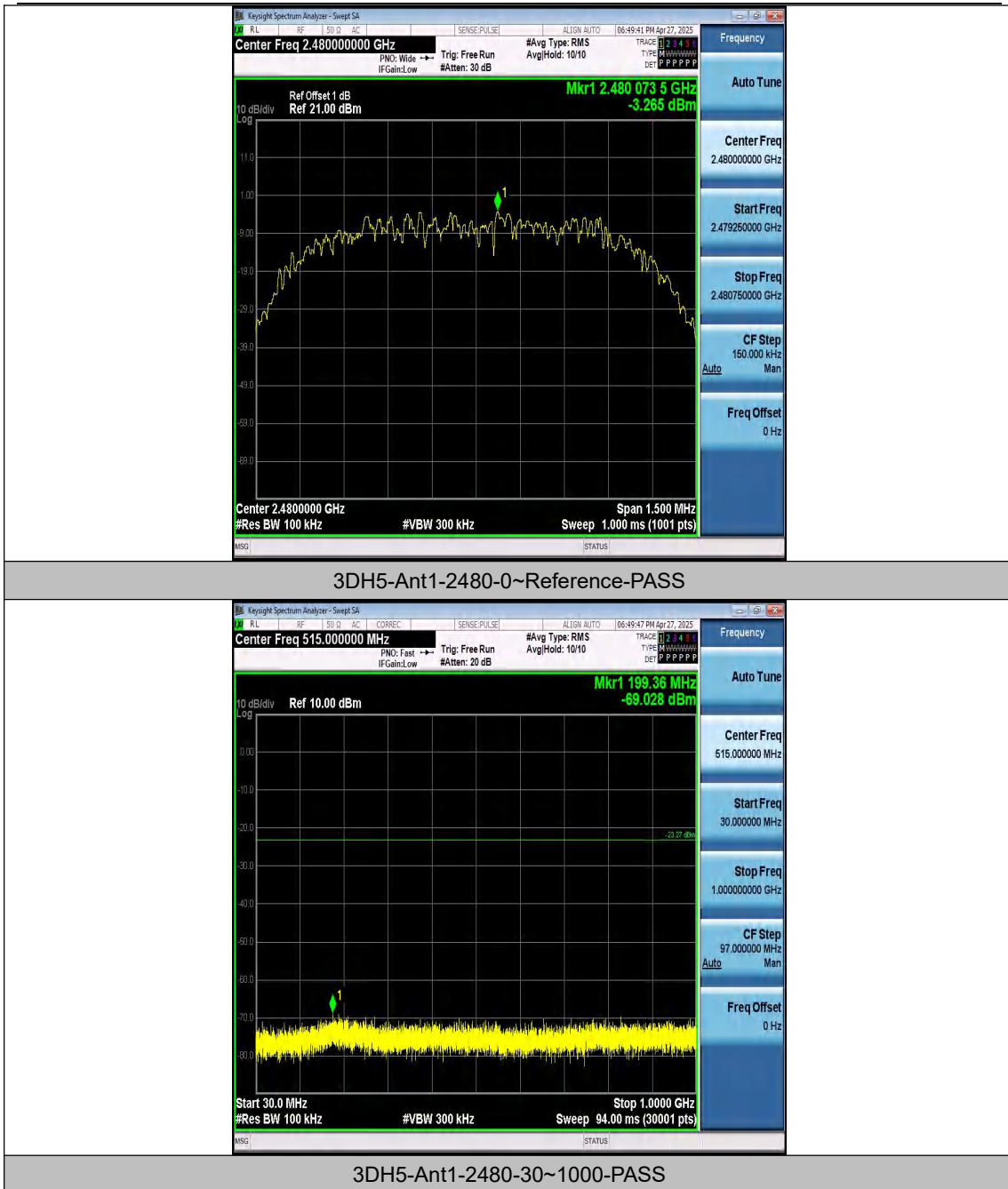
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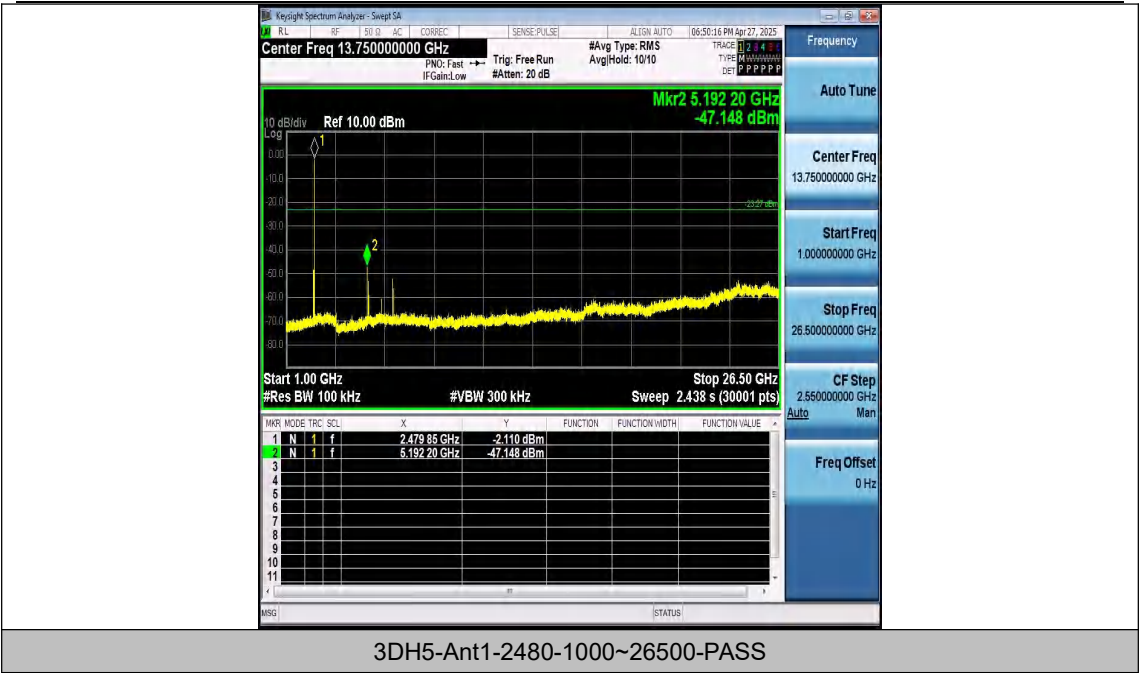




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3DH5-Ant1-2480-1000~26500-PASS

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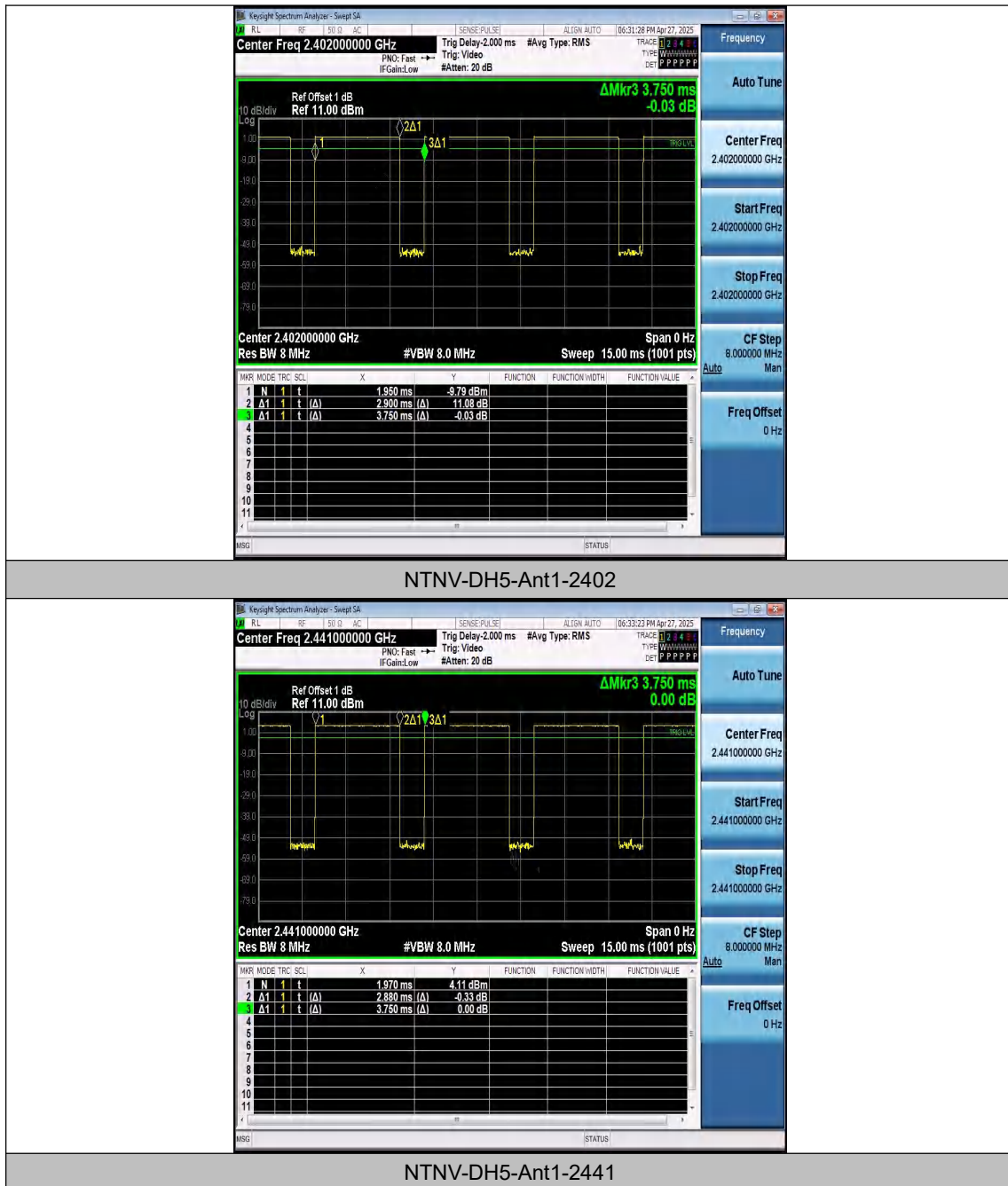
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	3.75	77.33	1.12
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13



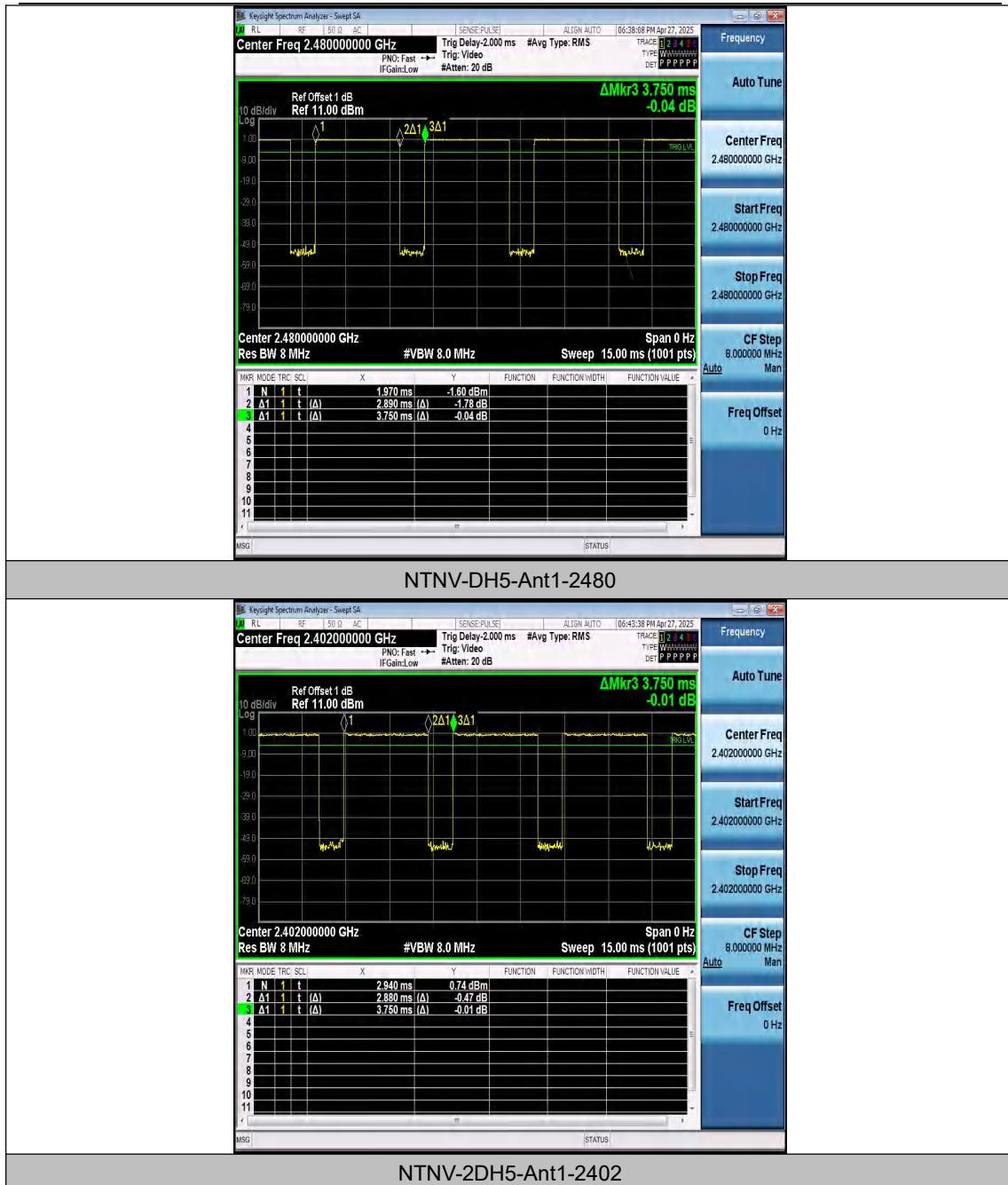
Test Graphs



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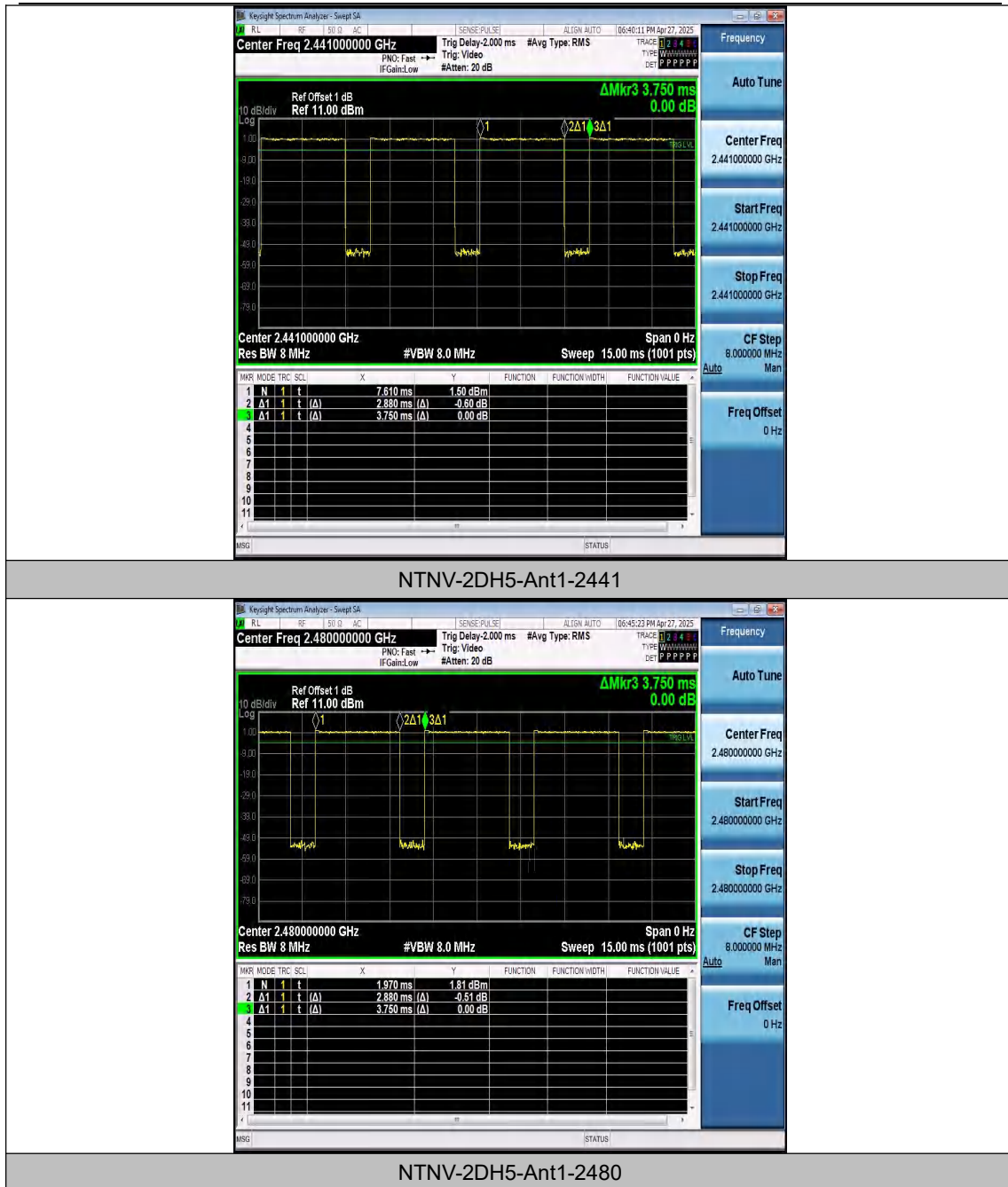
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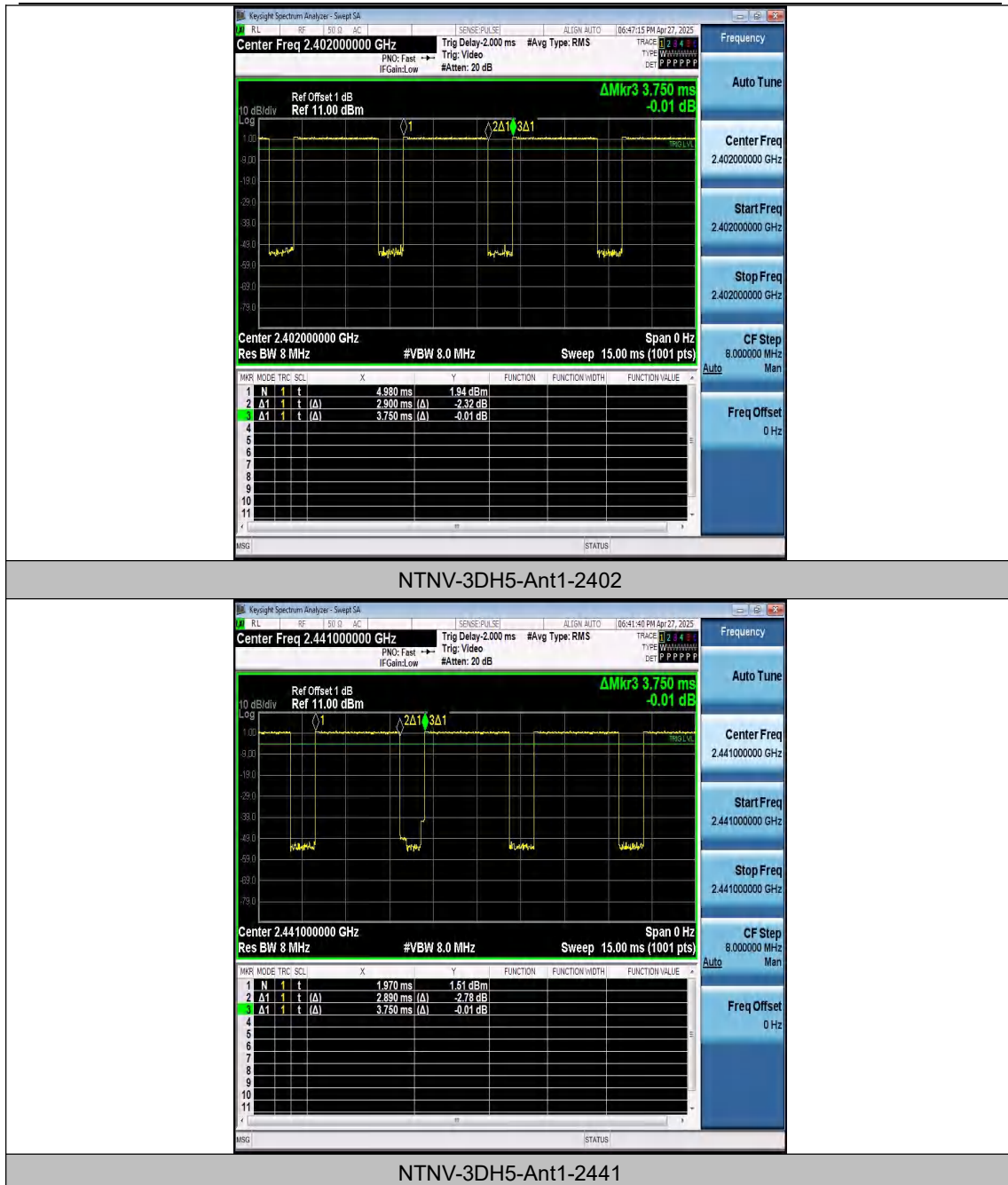


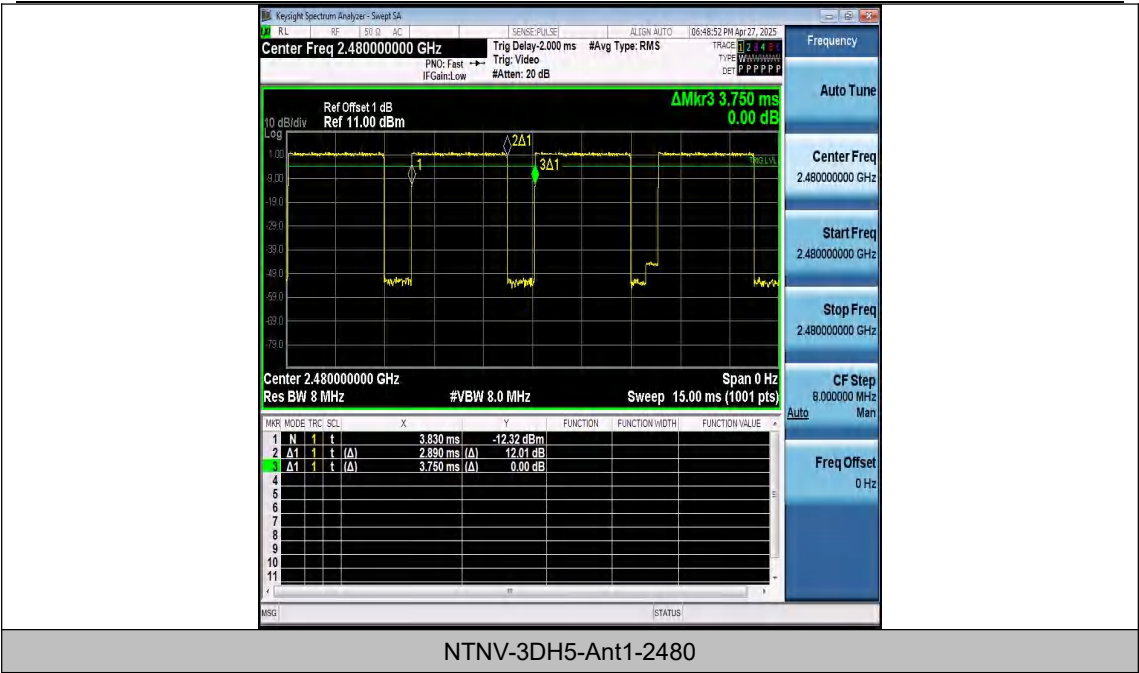
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NTNV-3DH5-Ant1-2480

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