



CQASZ20260701654E-02

Summary

NO.	Item	Verdict
1	20dB Emission Bandwidth	Pass
2	Occupied Channel Bandwidth	Pass
3	Maximum conducted output power	Pass
4	Carrier frequency separation	Pass
5	Time of occupancy	Pass
6	Number of hopping channels	Pass
7	Band edge measurements	Pass
8	Conducted Spurious Emission	Pass
9	Emissions in Restricted Bands	Pass
10	Duty Cycle	Pass

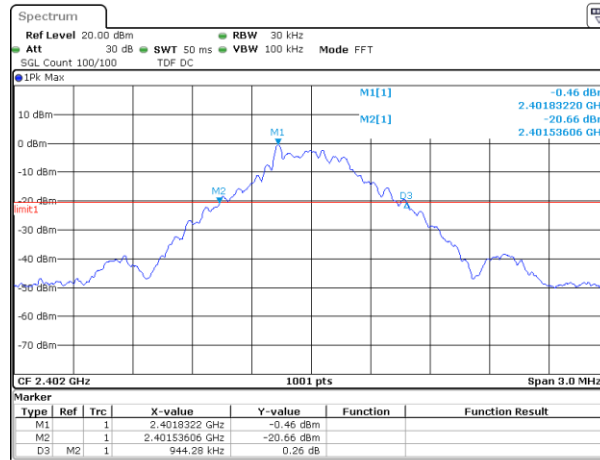
Appendix A: 20dB Emission Bandwidth

Test Result

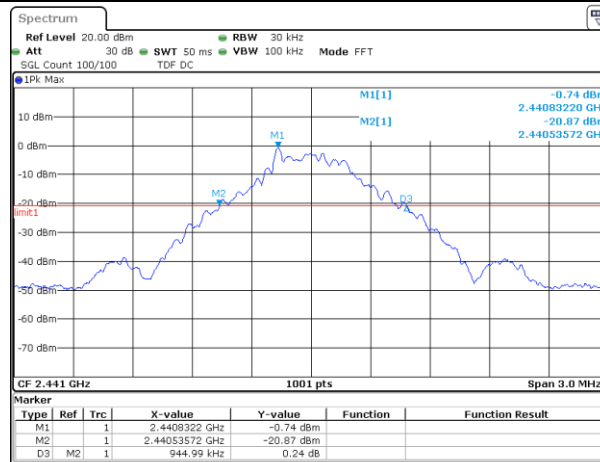
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	0.94	2401.54	2402.48	-	-
2	NTNV	DH5	2441	1Mbps	ANT1	0.94	2440.54	2441.48	-	-
3	NTNV	DH5	2480	1Mbps	ANT1	0.94	2479.54	2480.48	-	-
4	NTNV	2DH5	2402	2Mbps	ANT1	1.27	2401.37	2402.64	-	-
5	NTNV	2DH5	2441	2Mbps	ANT1	1.26	2440.37	2441.64	-	-
6	NTNV	2DH5	2480	2Mbps	ANT1	1.24	2479.37	2480.61	-	-
7	NTNV	3DH5	2402	3Mbps	ANT1	1.26	2401.37	2402.64	-	-
8	NTNV	3DH5	2441	3Mbps	ANT1	1.27	2440.37	2441.64	-	-
9	NTNV	3DH5	2480	3Mbps	ANT1	1.24	2479.38	2480.61	-	-

Test Graphs

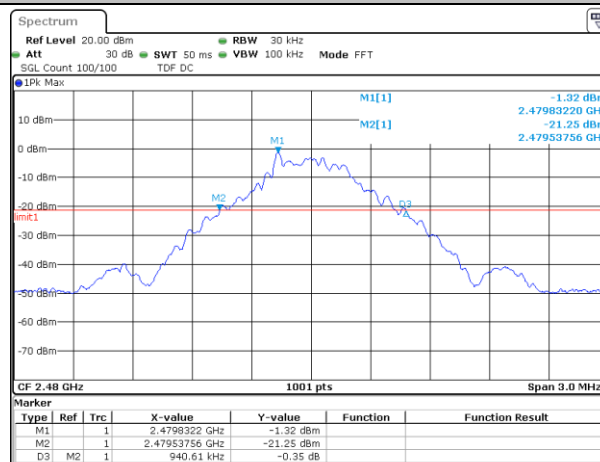
NTNV_DH5_2402_1Mbps



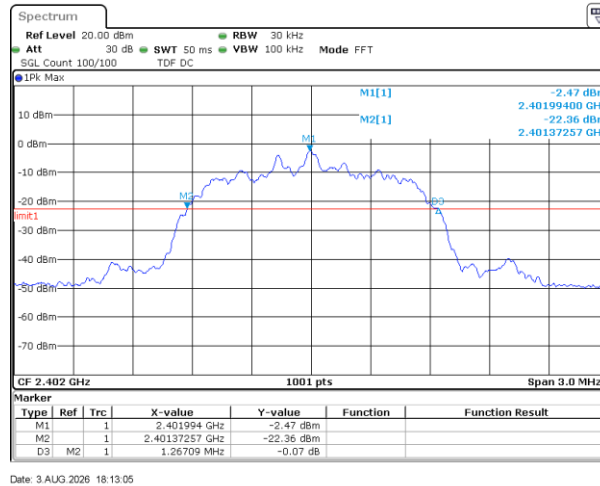
NTNV_DH5_2441_1Mbps



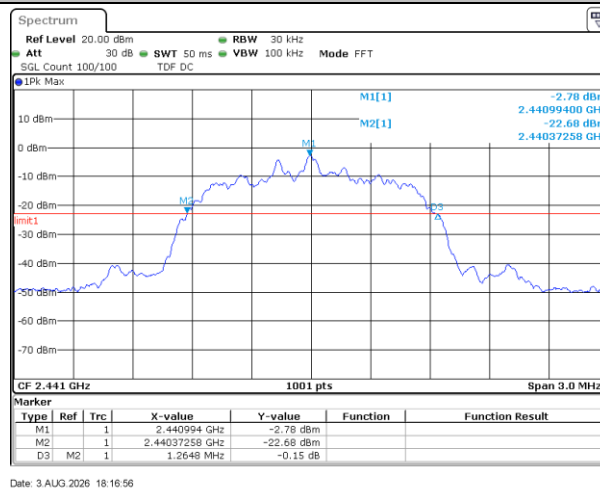
NTNV_DH5_2480_1Mbps



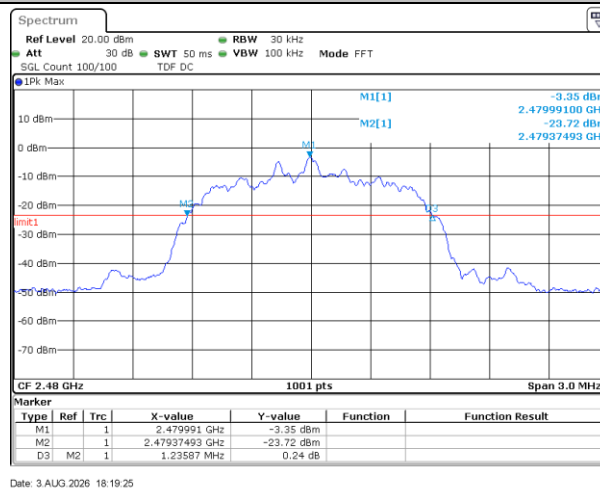
NTNV_2DH5_2402_2Mbps



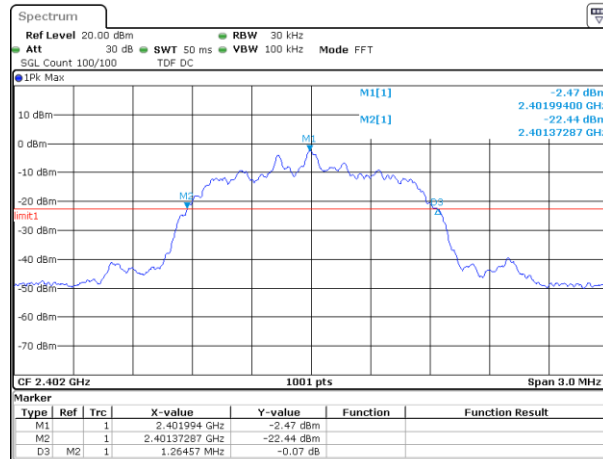
NTNV_2DH5_2441_2Mbps



NTNV_2DH5_2480_2Mbps

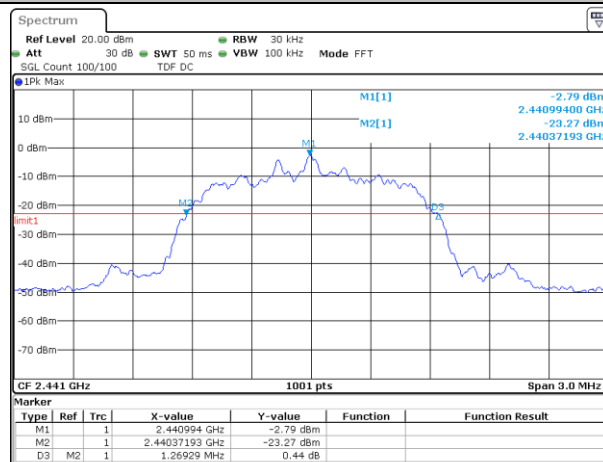


NTNV_3DH5_2402_3Mbps



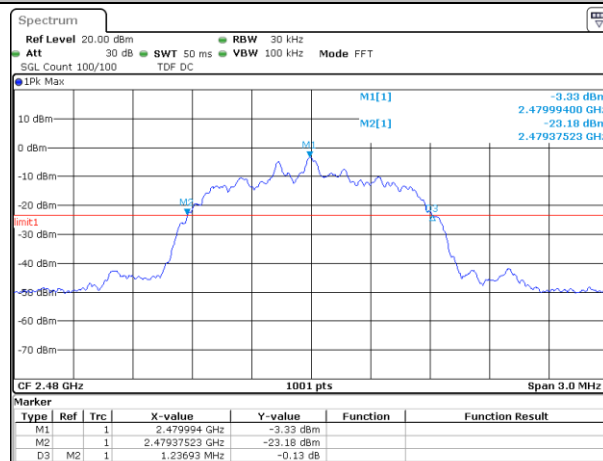
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NTNV_3DH5_2441_3Mbps



Date: 3 AUG 2026 18:27:18

NTNV_3DH5_2480_3Mbps



Date: 3 AUG 2026 18:28:54

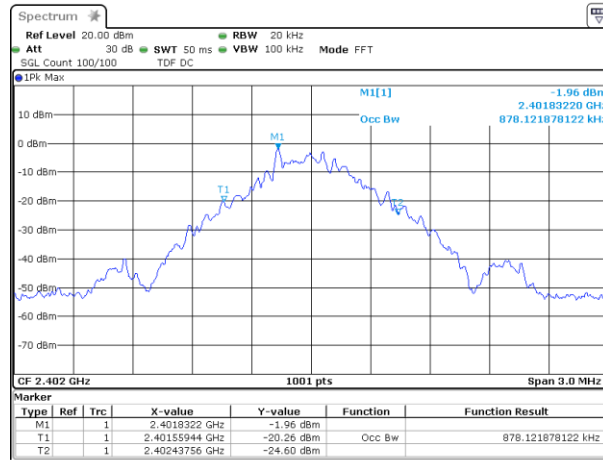
Appendix B: Occupied Channel Bandwidth

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	99% OBW (MHz)	Limit (MHz)	FL (MHz)	FH (MHz)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	0.88	-	2401.56	2402.44	Pass
2	NTNV	DH5	2441	1Mbps	ANT1	0.88	-	2440.56	2441.44	Pass
3	NTNV	DH5	2480	1Mbps	ANT1	0.86	-	2479.57	2480.43	Pass
4	NTNV	2DH5	2402	2Mbps	ANT1	1.15	-	2401.42	2402.57	Pass
5	NTNV	2DH5	2441	2Mbps	ANT1	1.15	-	2440.42	2441.57	Pass
6	NTNV	2DH5	2480	2Mbps	ANT1	1.14	-	2479.42	2480.57	Pass
7	NTNV	3DH5	2402	3Mbps	ANT1	1.15	-	2401.42	2402.57	Pass
8	NTNV	3DH5	2441	3Mbps	ANT1	1.16	-	2440.42	2441.58	Pass
9	NTNV	3DH5	2480	3Mbps	ANT1	1.14	-	2479.42	2480.57	Pass

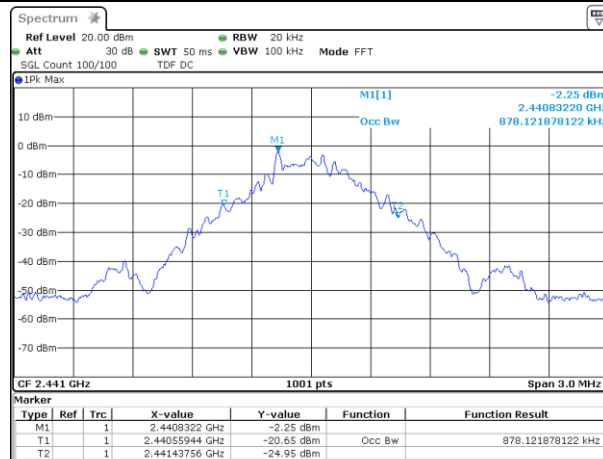
Test Graphs

NTNV_DH5_2402_1Mbps



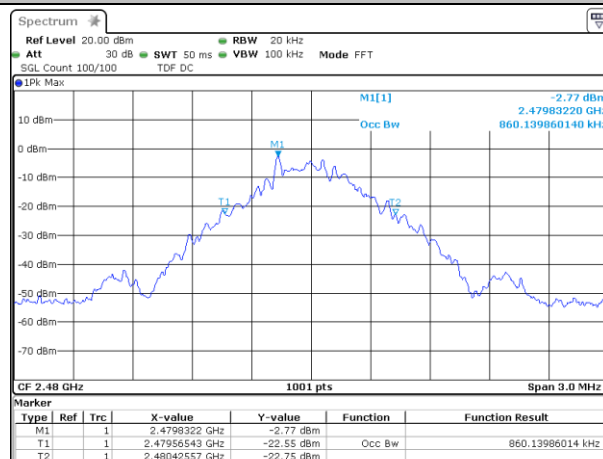
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NTNV_DH5_2441_1Mbps



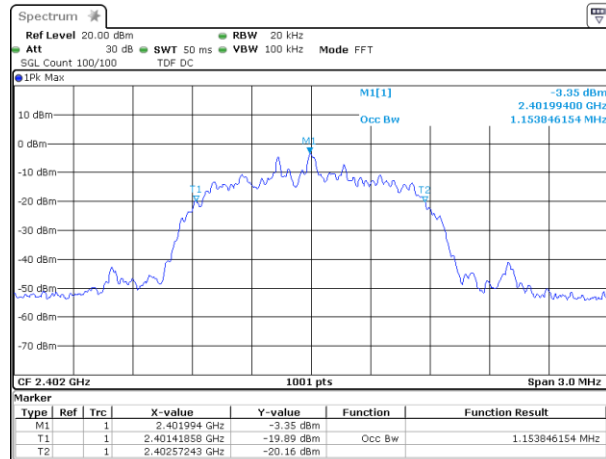
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NTNV_DH5_2480_1Mbps

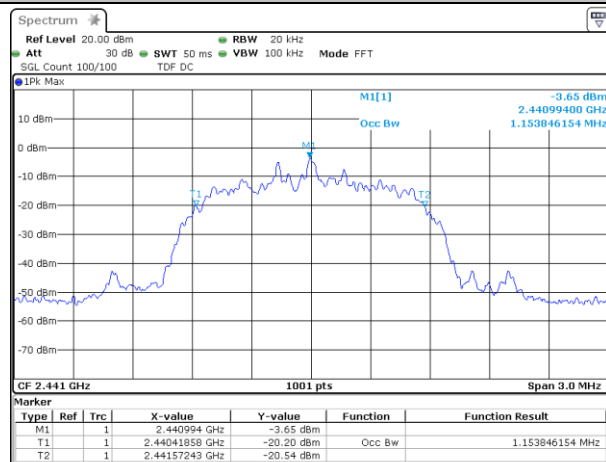


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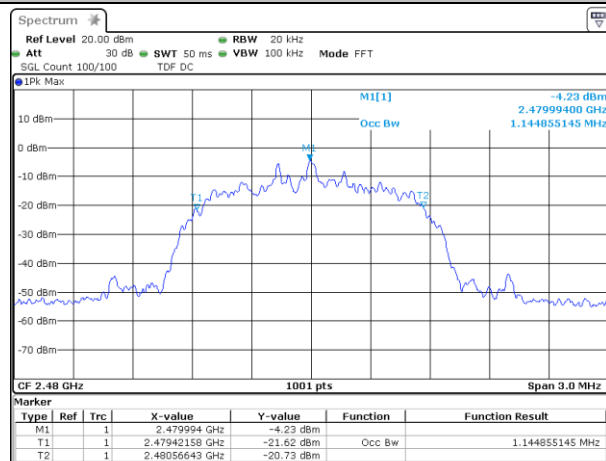
NTNV_2DH5_2402_2Mbps



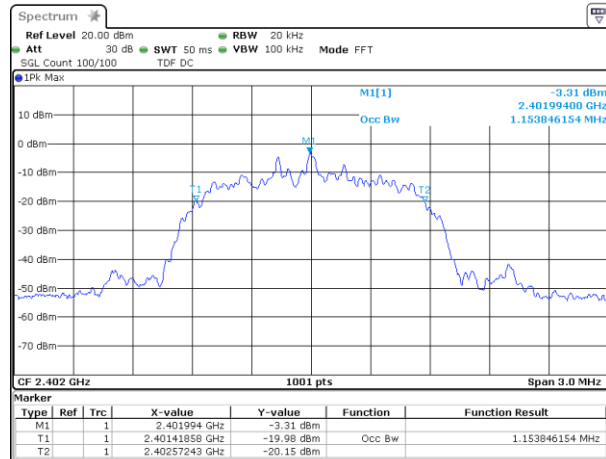
NTNV_2DH5_2441_2Mbps



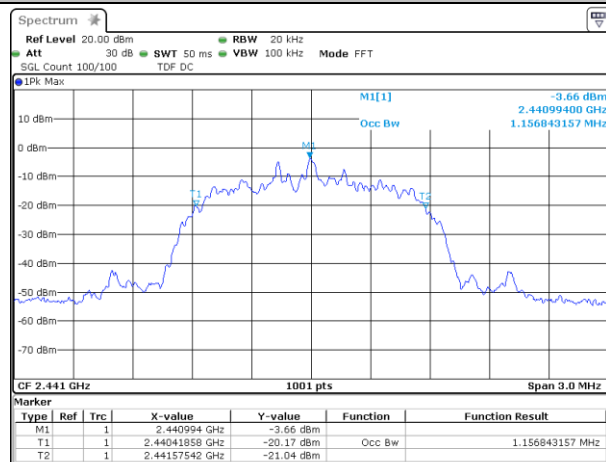
NTNV_2DH5_2480_2Mbps



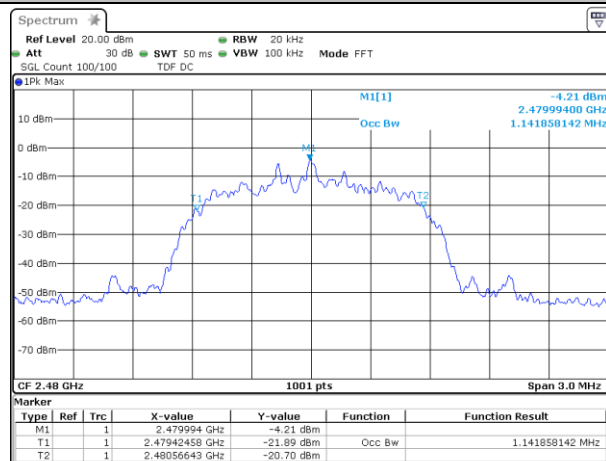
NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

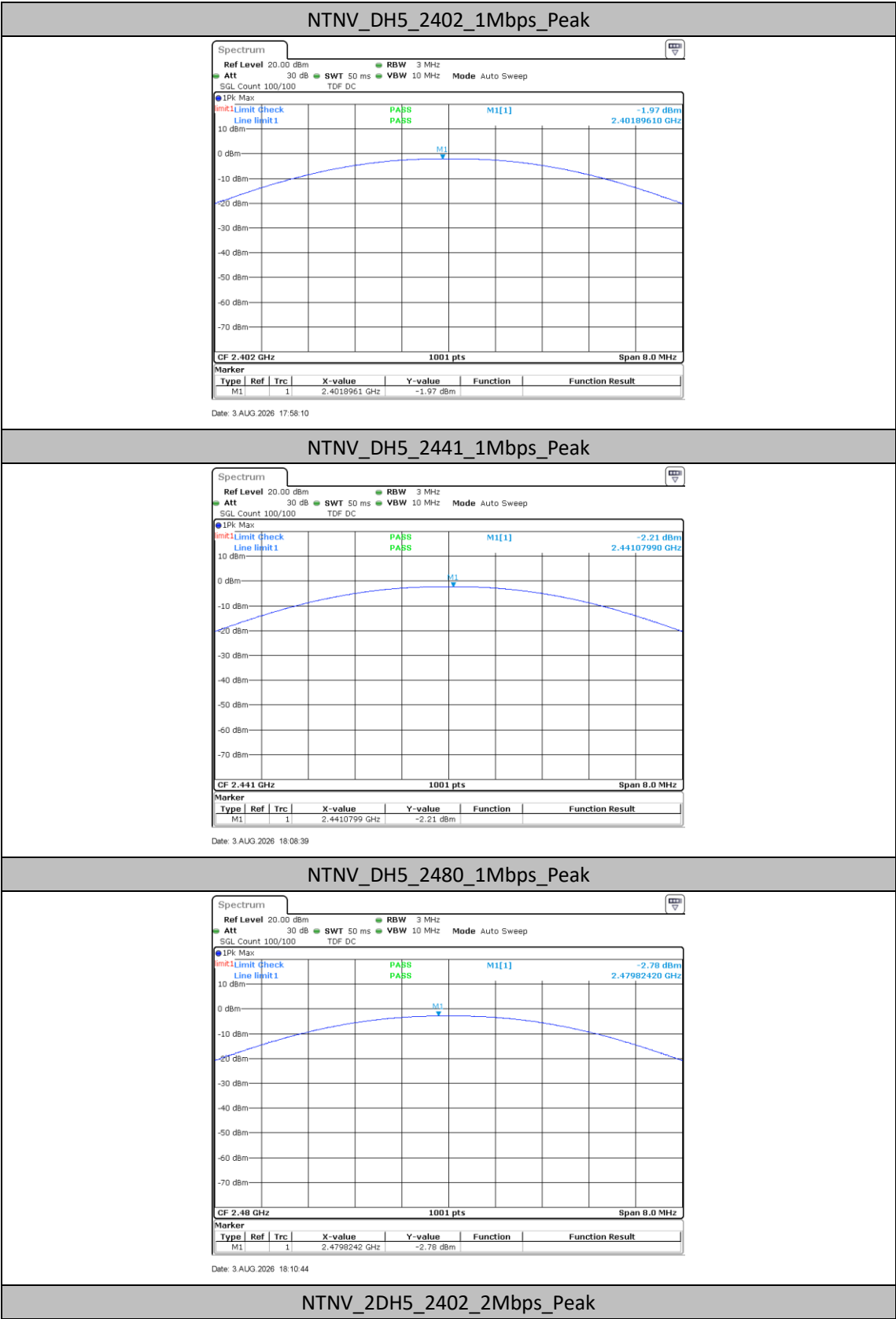


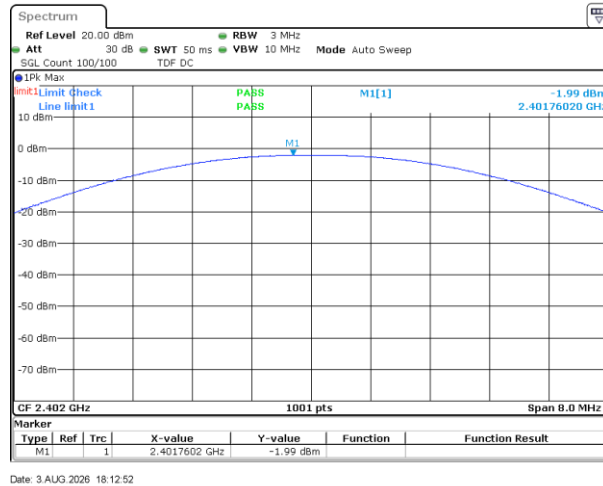
Appendix C: Maximum conducted output power

Test Result

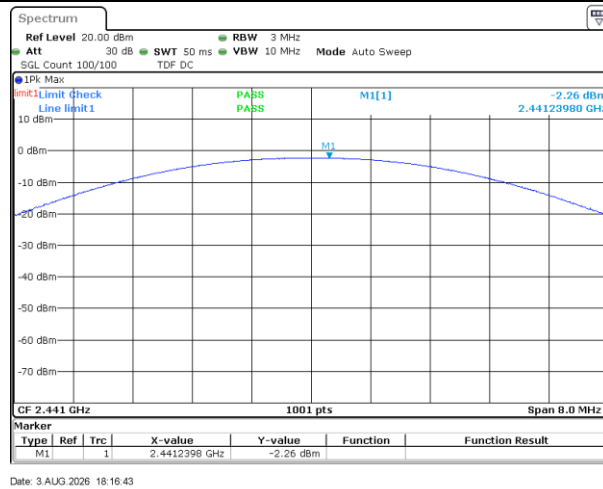
NO.	Test Condition	Test Mode	Freq (MHz)	Detector	Antenna	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
1	NTNV	DH5	2402	Peak	ANT1	-1.97	≤ 30	Pass
2	NTNV	DH5	2441	Peak	ANT1	-2.21	≤ 30	Pass
3	NTNV	DH5	2480	Peak	ANT1	-2.78	≤ 30	Pass
4	NTNV	2DH5	2402	Peak	ANT1	-1.99	≤ 30	Pass
5	NTNV	2DH5	2441	Peak	ANT1	-2.26	≤ 30	Pass
6	NTNV	2DH5	2480	Peak	ANT1	-2.81	≤ 30	Pass
7	NTNV	3DH5	2402	Peak	ANT1	-2.00	≤ 30	Pass
8	NTNV	3DH5	2441	Peak	ANT1	-2.31	≤ 30	Pass
9	NTNV	3DH5	2480	Peak	ANT1	-2.79	≤ 30	Pass

Test Graphs

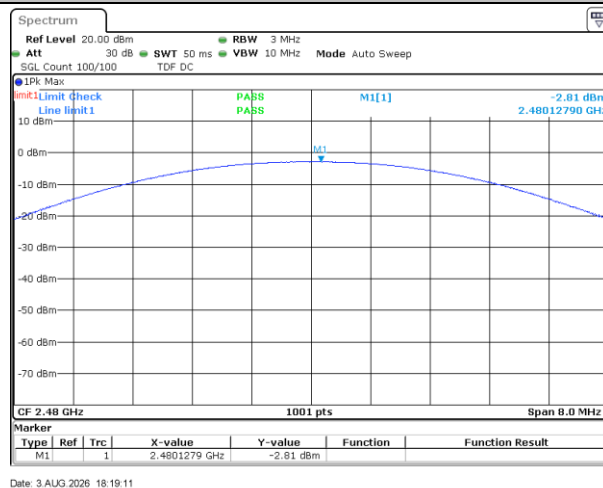




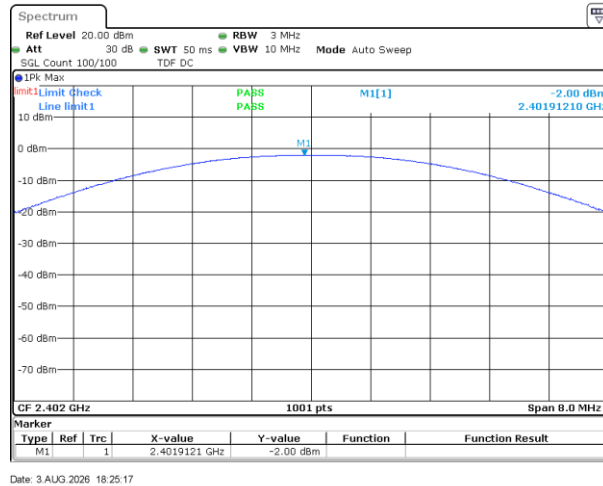
NTNV_2DH5_2441_2Mbps_Peak



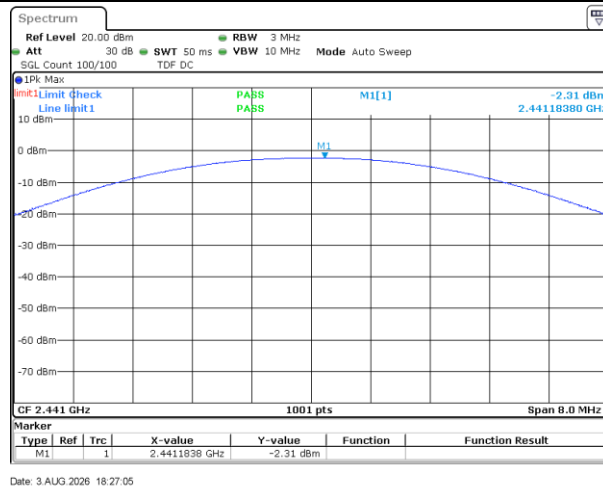
NTNV_2DH5_2480_2Mbps_Peak



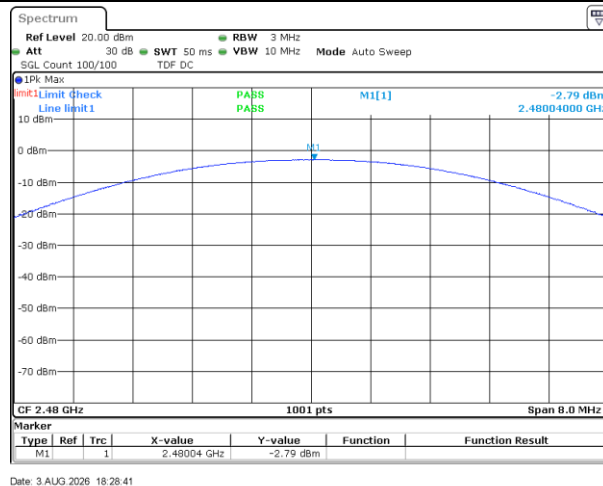
NTNV_3DH5_2402_3Mbps_Peak



NTNV_3DH5_2441_3Mbps_Peak



NTNV_3DH5_2480_3Mbps_Peak

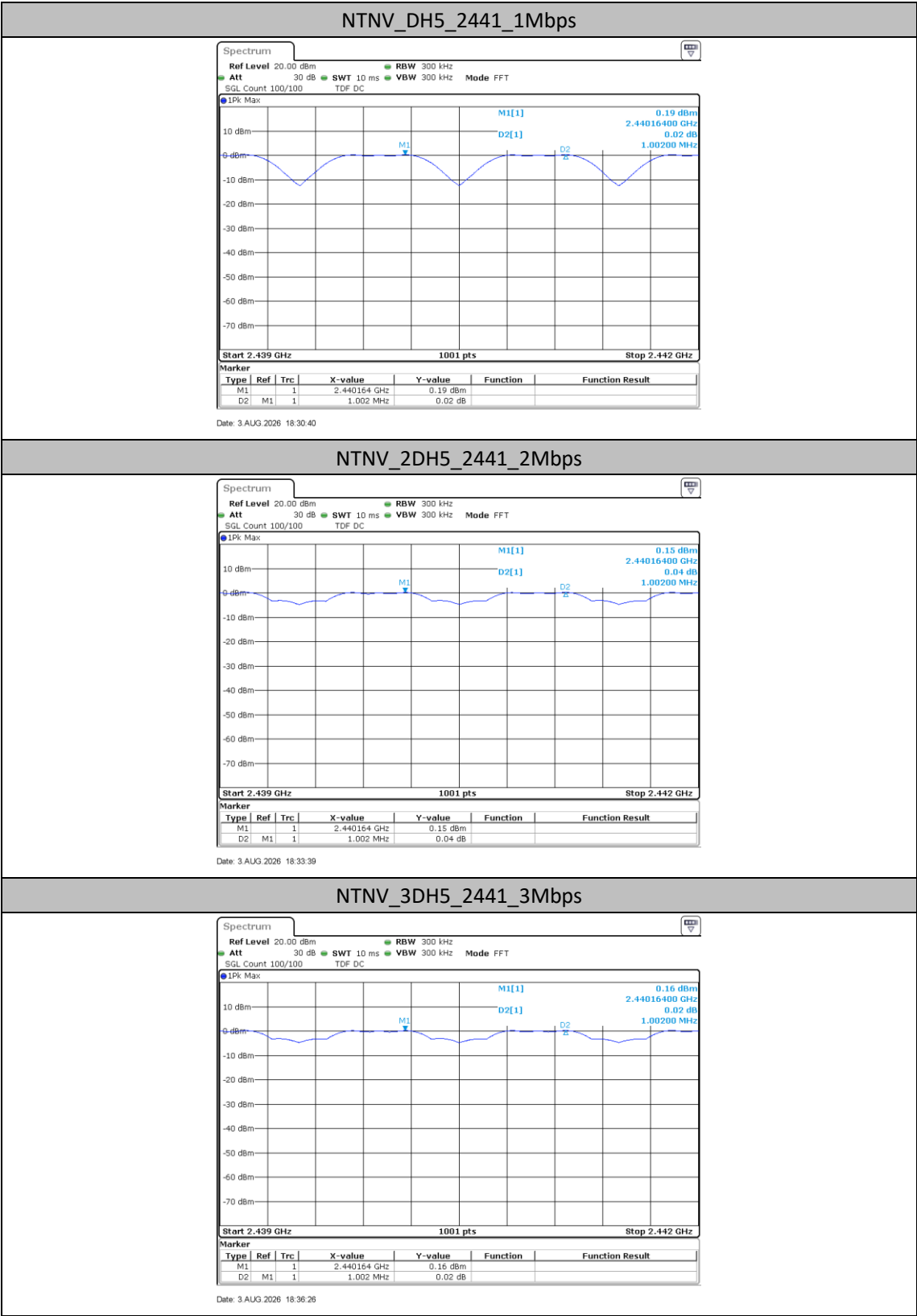


Appendix D: Carrier frequency separation

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Result (MHz)	Limit (MHz)	Verdict
1	NTNV	DH5 FHSS	2441	1Mbps	ANT1	1.00	≥ 0.63	Pass
2	NTNV	2DH5 FHSS	2441	2Mbps	ANT1	1.00	≥ 0.84	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	1.00	≥ 0.85	Pass

Test Graphs

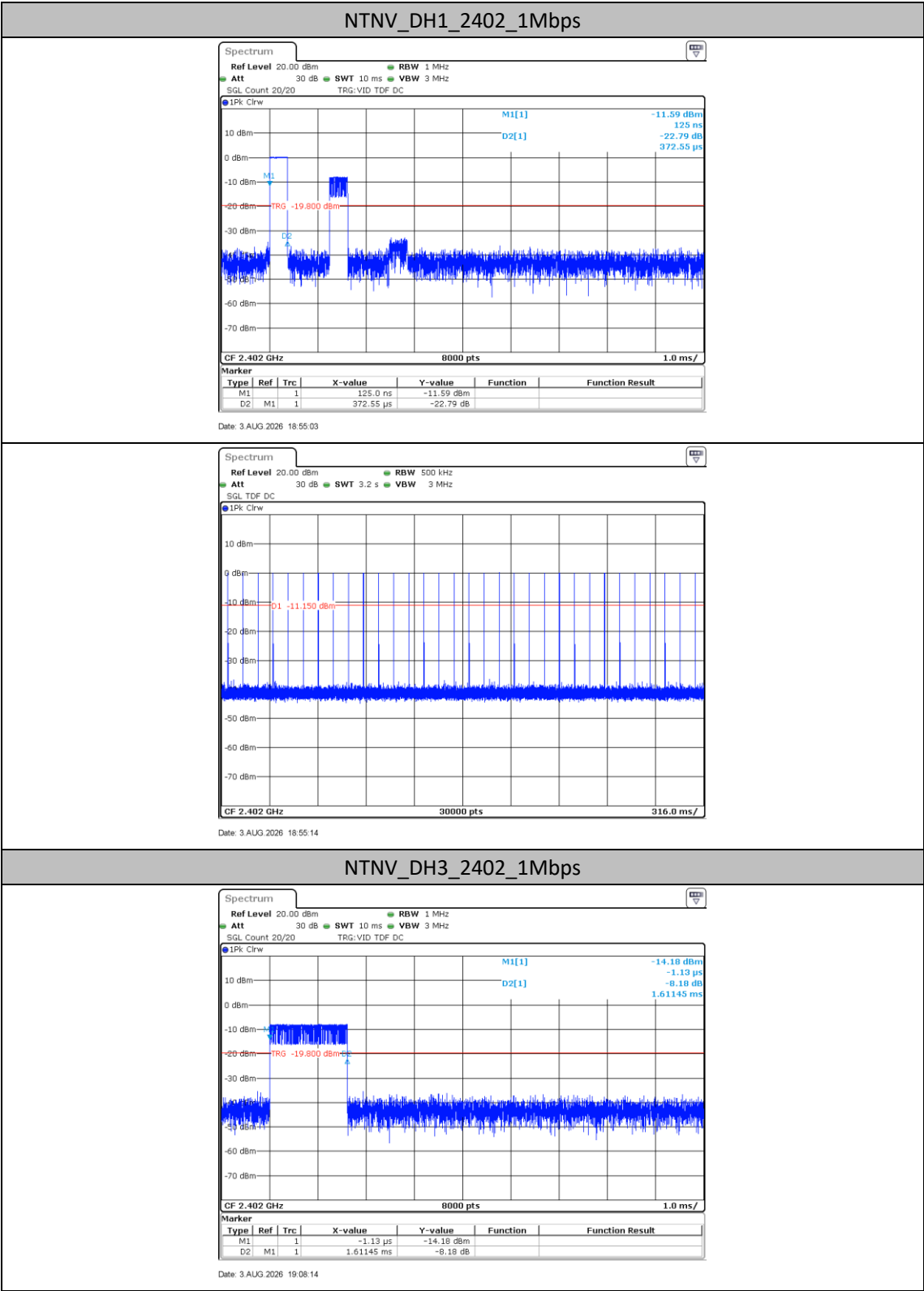


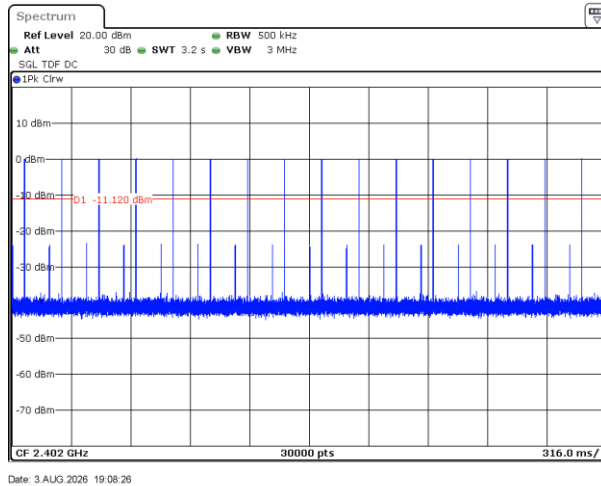
Appendix E: Time of occupancy

Test Result

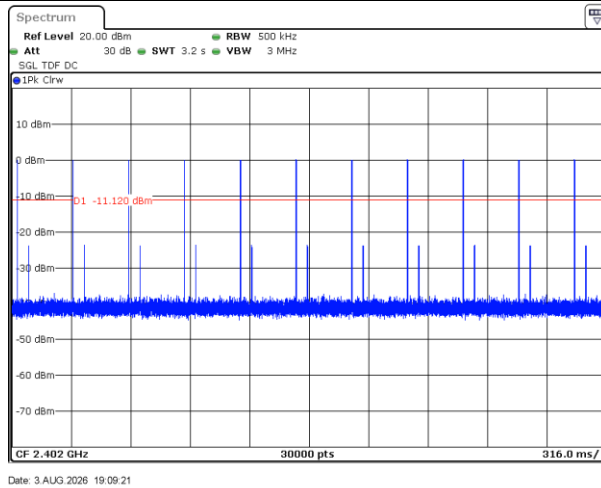
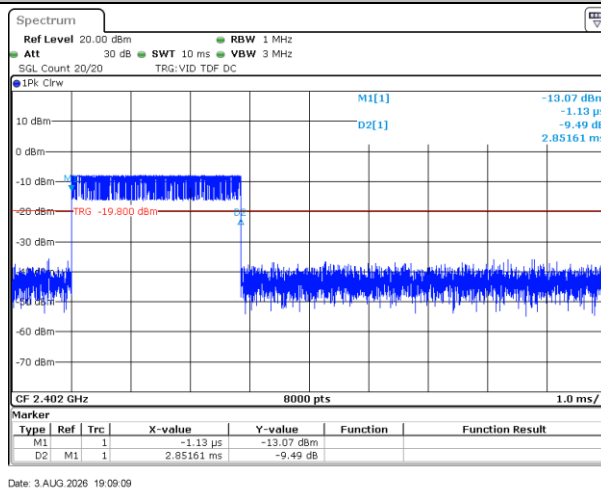
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Burst Width (ms)	Total Hops	Dwell Time (s)	Limit (s)	Verdict
1	NTNV	DH1 FHSS	2402	1Mbps	ANT1	0.37	32	0.12	≤0.4	Pass
2	NTNV	DH3 FHSS	2402	1Mbps	ANT1	1.61	16	0.26	≤0.4	Pass
3	NTNV	DH5 FHSS	2402	1Mbps	ANT1	2.85	11	0.31	≤0.4	Pass
4	NTNV	2DH1 FHSS	2402	2Mbps	ANT1	0.38	32	0.12	≤0.4	Pass
5	NTNV	2DH3 FHSS	2402	2Mbps	ANT1	1.62	16	0.26	≤0.4	Pass
6	NTNV	2DH5 FHSS	2402	2Mbps	ANT1	2.86	11	0.32	≤0.4	Pass
7	NTNV	3DH1 FHSS	2402	3Mbps	ANT1	0.38	32	0.12	≤0.4	Pass
8	NTNV	3DH3 FHSS	2402	3Mbps	ANT1	1.62	16	0.26	≤0.4	Pass
9	NTNV	3DH5 FHSS	2402	3Mbps	ANT1	2.87	11	0.32	≤0.4	Pass

Test Graphs

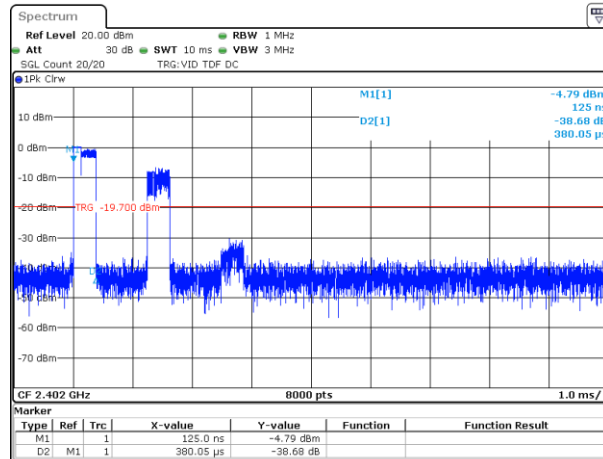




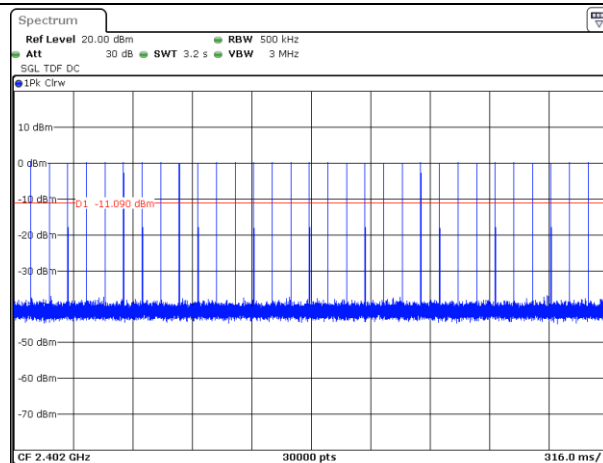
NTNV_DH5_2402_1Mbps



NTNV_2DH1_2402_2Mbps

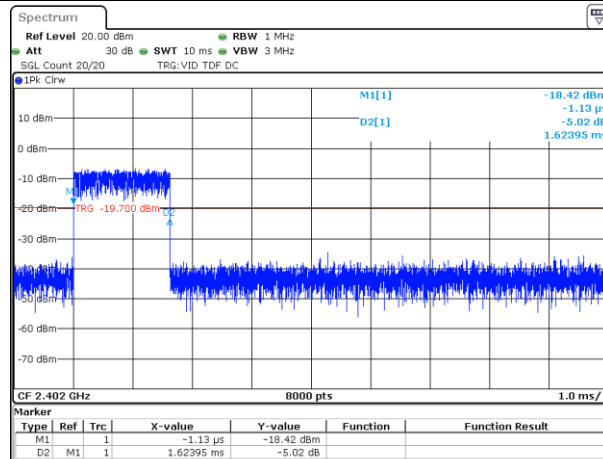


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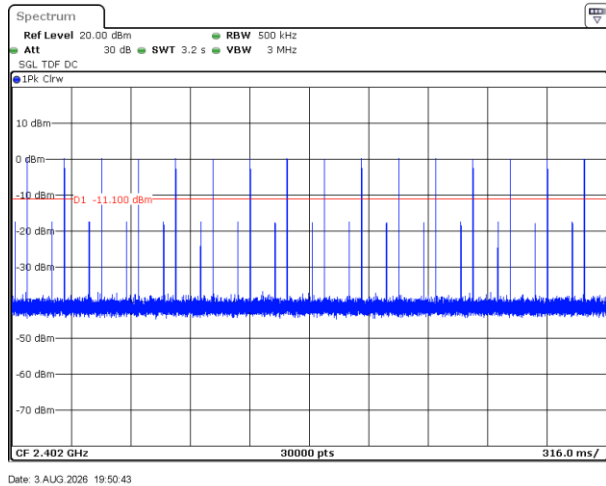


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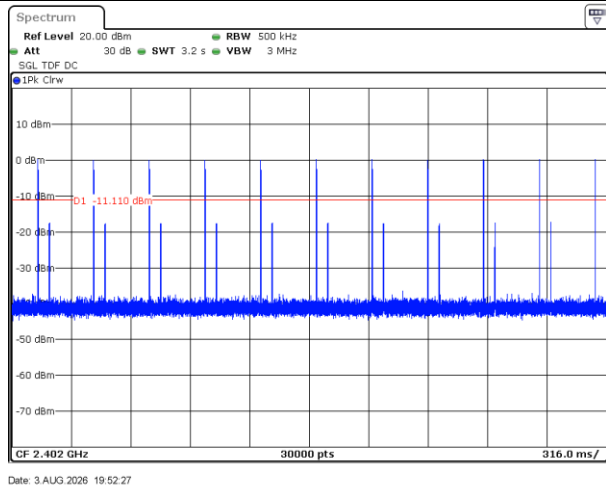
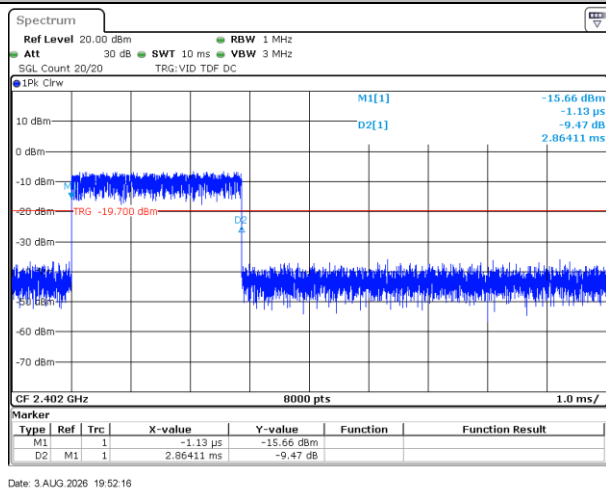
NTNV_2DH3_2402_2Mbps



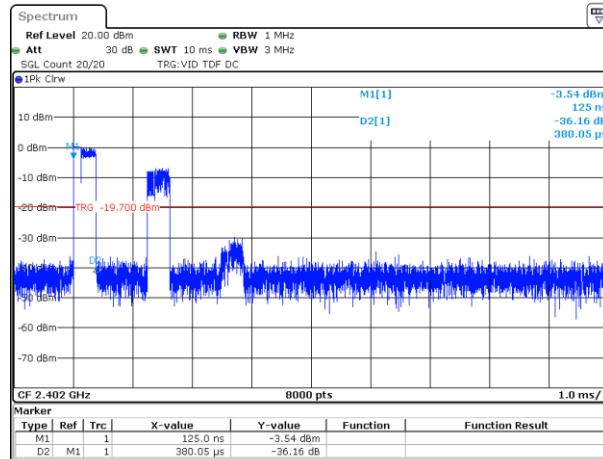
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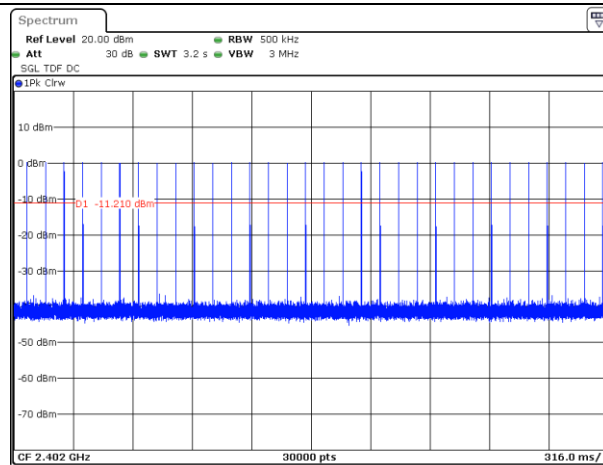
NTNV_2DH5_2402_2Mbps



NTNV_3DH1_2402_3Mbps

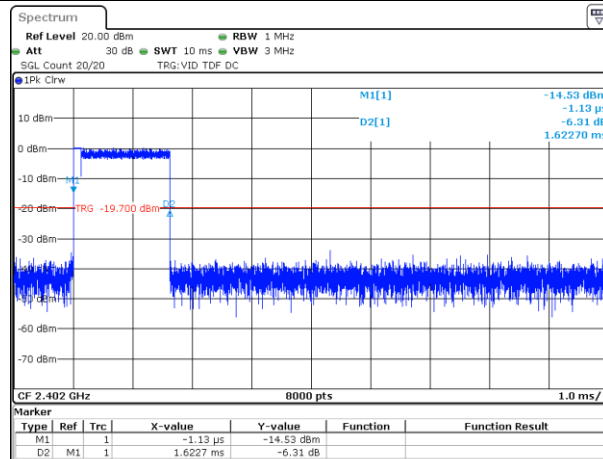


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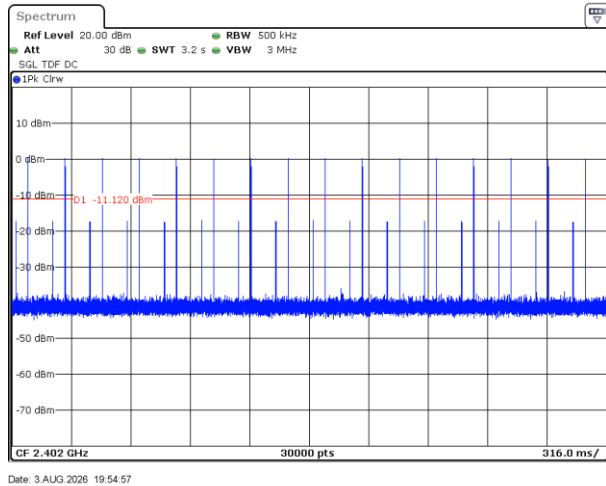


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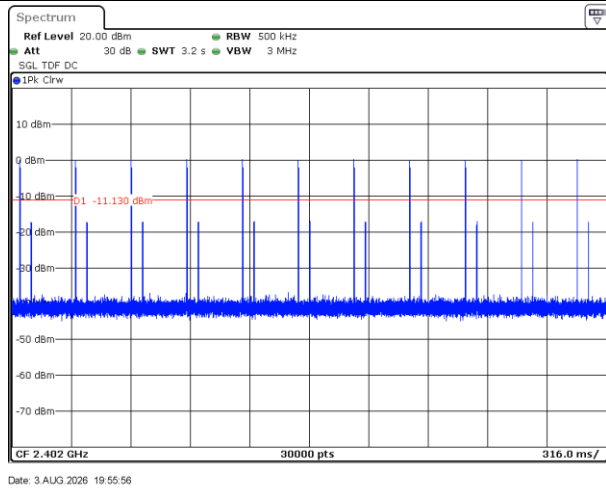
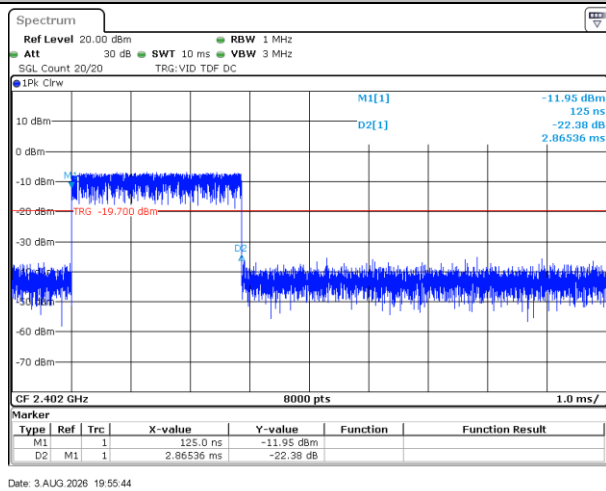
NTNV_3DH3_2402_3Mbps



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NTNV_3DH5_2402_3Mbps



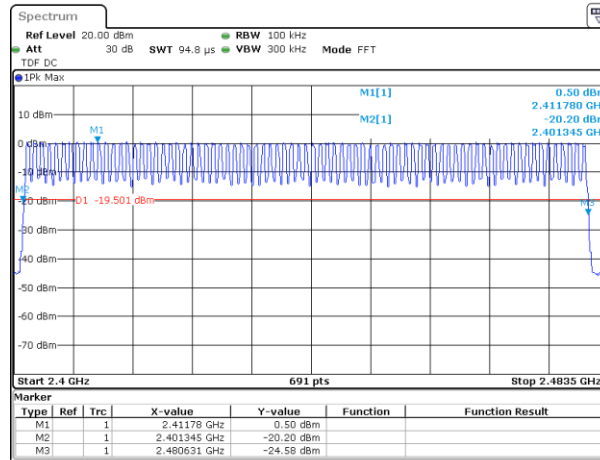
Appendix F: Number of hopping channels

Test Result

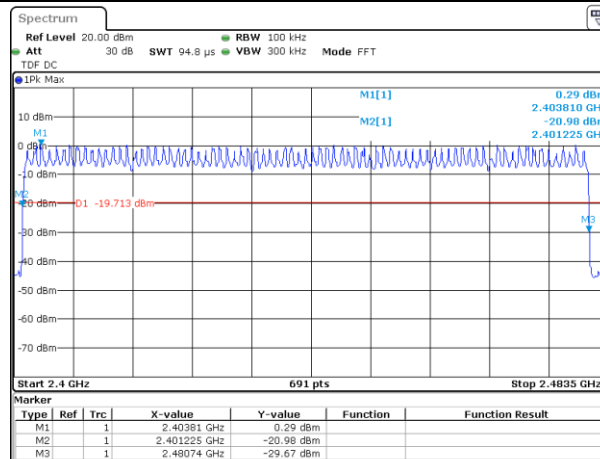
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Result (Num)	Limit (Num)	Verdict
1	NTNV	DH5 FHSS	2441	1Mbps	ANT1	79	≥ 15	Pass
2	NTNV	2DH5 FHSS	2441	2Mbps	ANT1	79	≥ 15	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	79	≥ 15	Pass

Test Graphs

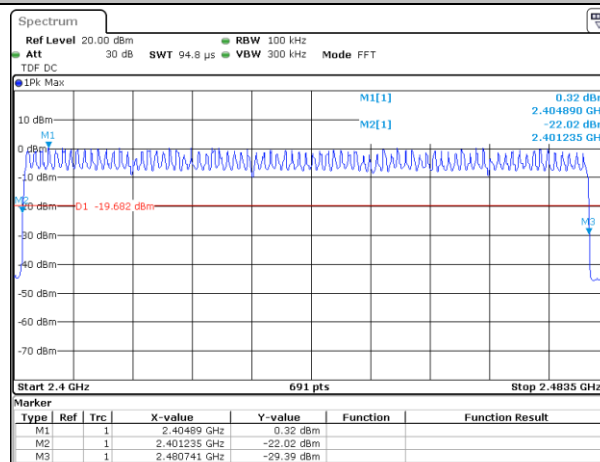
NTNV_DH5_2441_1Mbps



NTNV_2DH5_2441_2Mbps



NTNV_3DH5_2441_3Mbps



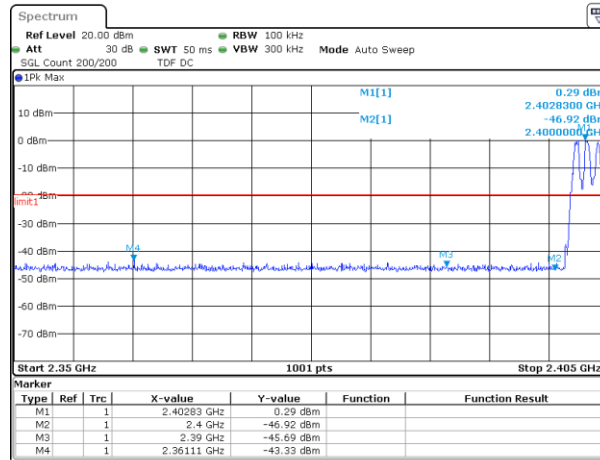
Appendix G: Band edge measurements

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Reference (dBm)	Emission Level (dBm)	Limit (dBm)	Verdict
7	NTNV	DH5 FHSS	2402	1Mbps	ANT1	0.29	-43.33	≤ -19.71	Pass
8	NTNV	DH5 FHSS	2480	1Mbps	ANT1	-0.02	-44.16	≤ -20.02	Pass
9	NTNV	2DH5 FHSS	2402	1Mbps	ANT1	0.15	-43.94	≤ -19.85	Pass
10	NTNV	2DH5 FHSS	2480	1Mbps	ANT1	-0.3	-43.90	≤ -20.3	Pass
11	NTNV	3DH5 FHSS	2402	1Mbps	ANT1	-1.47	-43.67	≤ -21.47	Pass
12	NTNV	3DH5 FHSS	2480	1Mbps	ANT1	-1.04	-43.58	≤ -21.04	Pass
1	NTNV	DH5	2402	1Mbps	ANT1	0.32	-44.31	≤ -19.68	Pass
2	NTNV	DH5	2480	1Mbps	ANT1	-1.4	-44.51	≤ -21.4	Pass
3	NTNV	2DH5	2402	2Mbps	ANT1	-0.45	-44.58	≤ -20.45	Pass
4	NTNV	2DH5	2480	2Mbps	ANT1	-1.24	-44.96	≤ -21.24	Pass
5	NTNV	3DH5	2402	3Mbps	ANT1	-0.36	-44.57	≤ -20.36	Pass
6	NTNV	3DH5	2480	3Mbps	ANT1	-1.55	-43.83	≤ -21.55	Pass

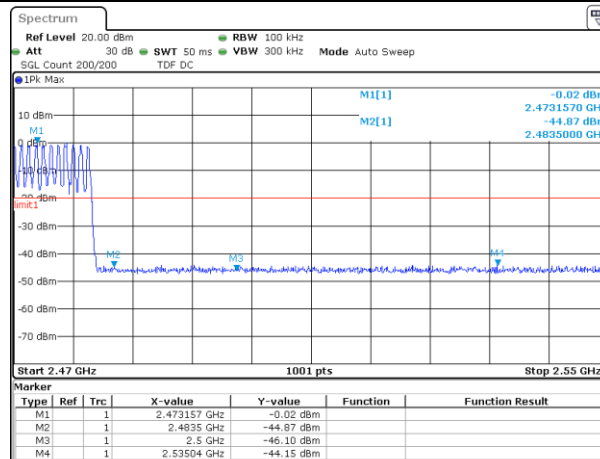
Test Graphs

NTNV_DH5_2402_1Mbps



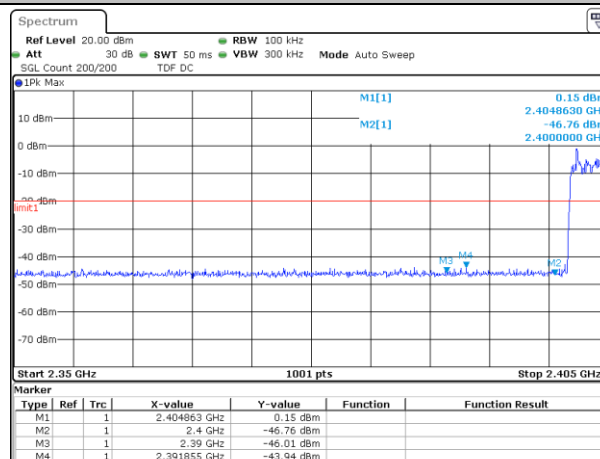
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NTNV_DH5_2480_1Mbps



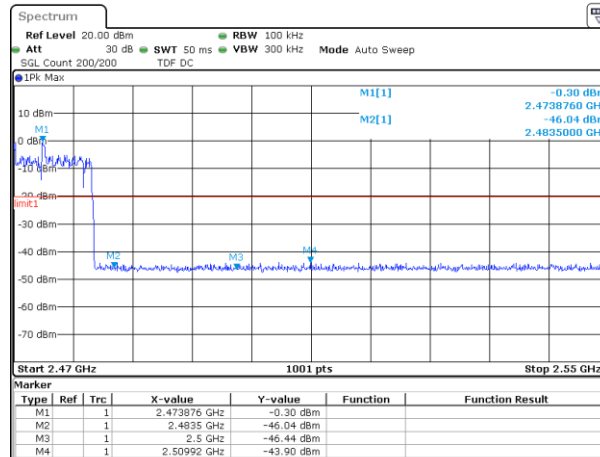
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NTNV_2DH5_2402_1Mbps



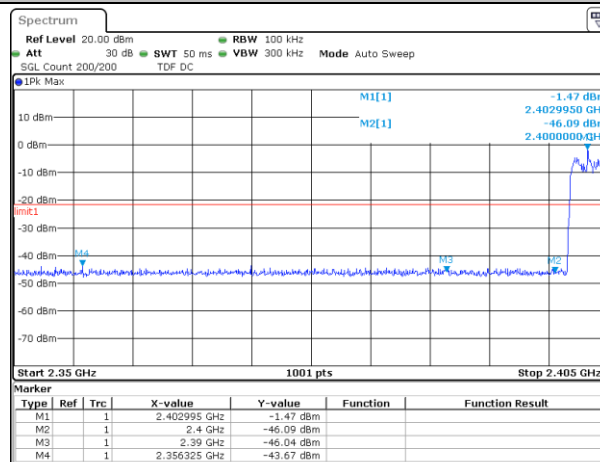
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NTNV_2DH5_2480_1Mbps



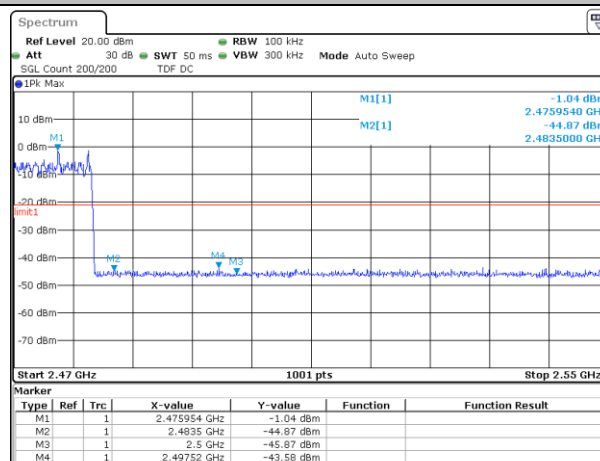
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NTNV_3DH5_2402_1Mbps



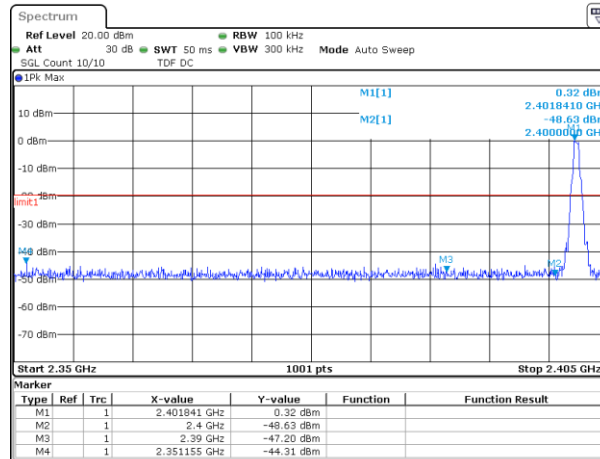
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NTNV_3DH5_2480_1Mbps



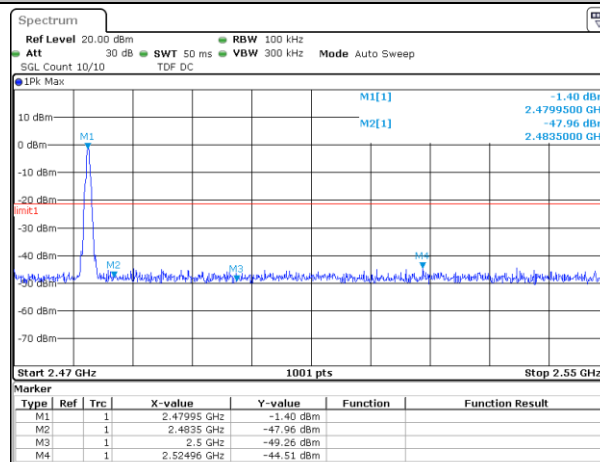
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NTNV_DH5_2402_1Mbps



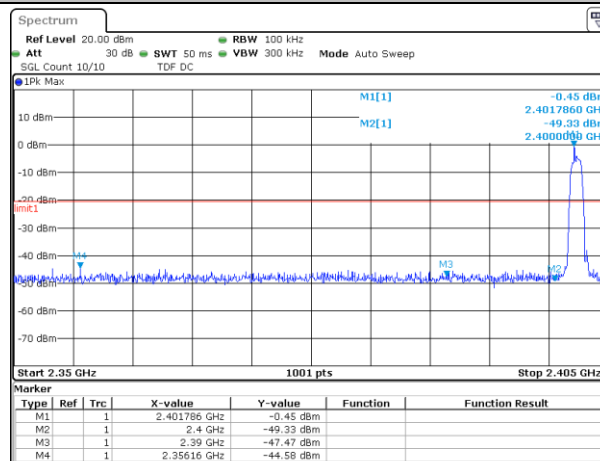
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NTNV_DH5_2480_1Mbps



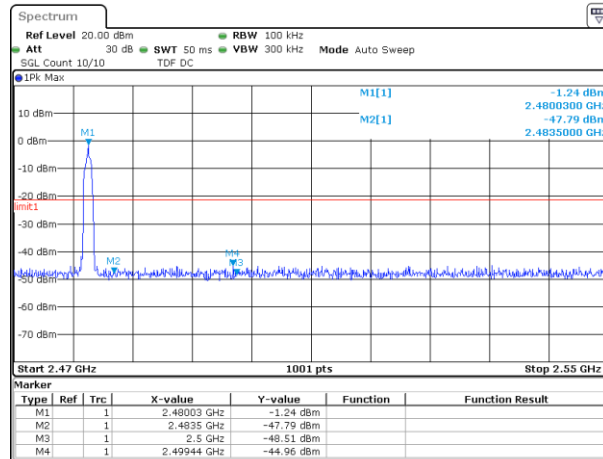
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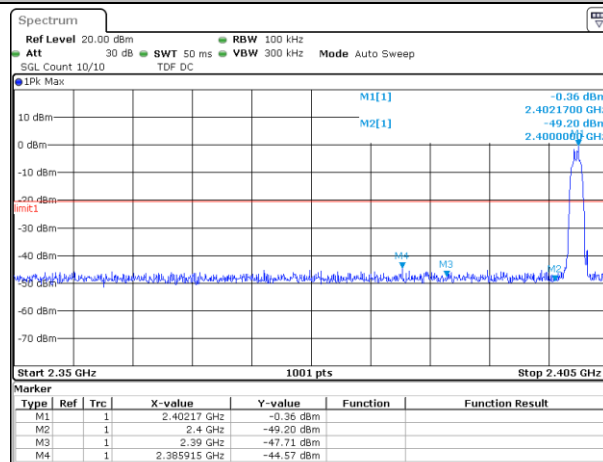
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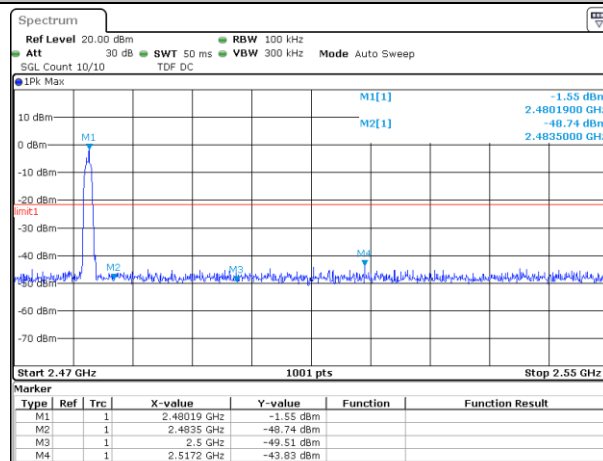
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NTNV_3DH5_2402_3Mbps



Date: 3 AUG 2026 18:25:35

NTNV_3DH5_2480_3Mbps



Date: 3 AUG 2026 18:28:58

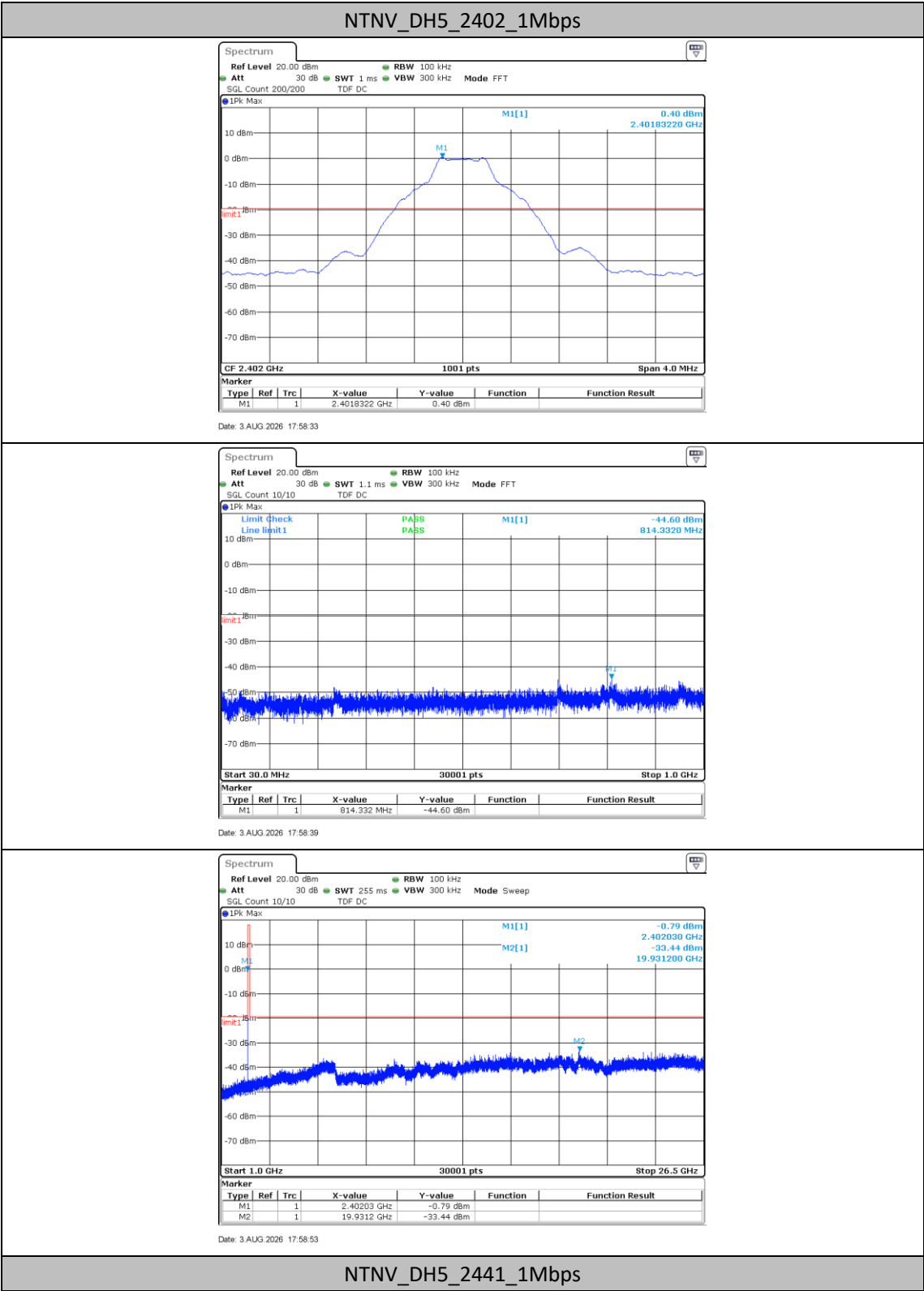
Appendix H: Conducted Spurious Emission

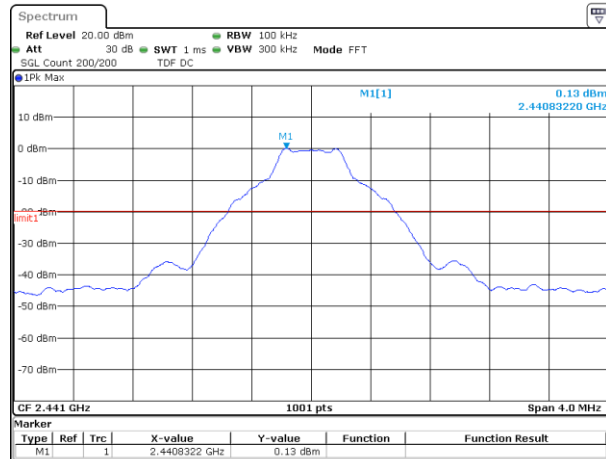
Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Frequency Range (MHz)	Ref Level (MHz)	Max Power (dBm)	Limit (dBm)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	Reference	0.1	0.4	/	/
						30~1000	0.1	-44.60	≤-19.60	Pass
						1000~26500	0.1	-33.44	≤-19.60	Pass
2	NTNV	DH5	2441	1Mbps	ANT1	Reference	0.1	0.13	/	/
						30~1000	0.1	-44.93	≤-19.87	Pass
						1000~26500	0.1	-34.01	≤-19.87	Pass
3	NTNV	DH5	2480	1Mbps	ANT1	Reference	0.1	-0.45	/	/
						30~1000	0.1	-45.37	≤-20.45	Pass
						1000~26500	0.1	-32.76	≤-20.45	Pass
4	NTNV	2DH5	2402	2Mbps	ANT1	Reference	0.1	0.31	/	/
						30~1000	0.1	-44.89	≤-19.69	Pass
						1000~26500	0.1	-34.48	≤-19.69	Pass
5	NTNV	2DH5	2441	2Mbps	ANT1	Reference	0.1	0.01	/	/
						30~1000	0.1	-44.90	≤-19.99	Pass
						1000~26500	0.1	-32.82	≤-19.99	Pass
6	NTNV	2DH5	2480	2Mbps	ANT1	Reference	0.1	-0.6	/	/
						30~1000	0.1	-44.44	≤-20.60	Pass
						1000~26500	0.1	-33.80	≤-20.60	Pass
7	NTNV	3DH5	2402	3Mbps	ANT1	Reference	0.1	0.28	/	/
						30~1000	0.1	-44.52	≤-19.72	Pass
						1000~26500	0.1	-33.54	≤-19.72	Pass
8	NTNV	3DH5	2441	3Mbps	ANT1	Reference	0.1	-0.01	/	/
						30~1000	0.1	-44.99	≤-20.01	Pass
						1000~26500	0.1	-33.65	≤-20.01	Pass
9	NTNV	3DH5	2480	3Mbps	ANT1	Reference	0.1	-0.6	/	/

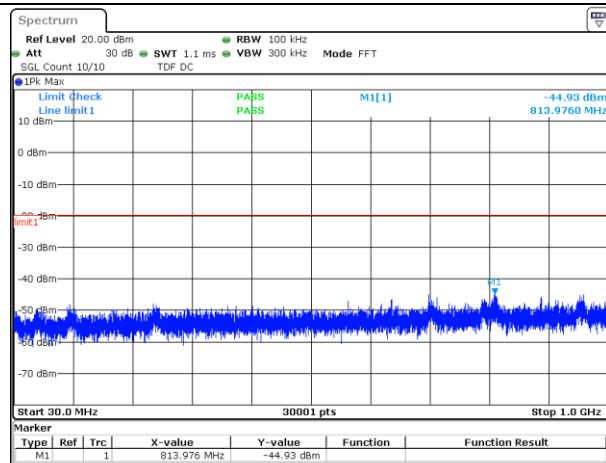
						30~1000	0.1	-45.46	≤-20.60	Pass
						1000~26500	0.1	-33.63	≤-20.60	Pass

Test Graphs

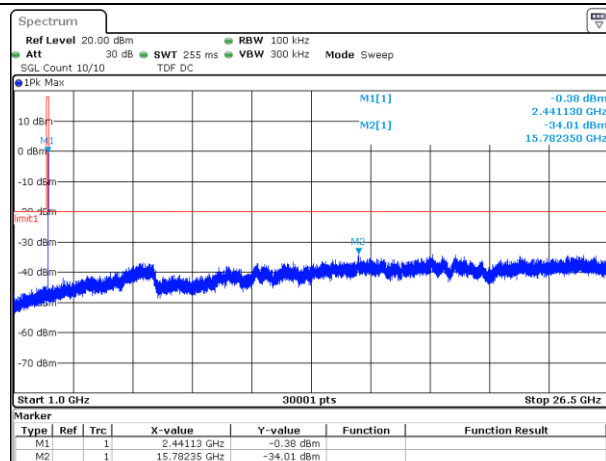




Date: 3 AUG 2026 18:09:21

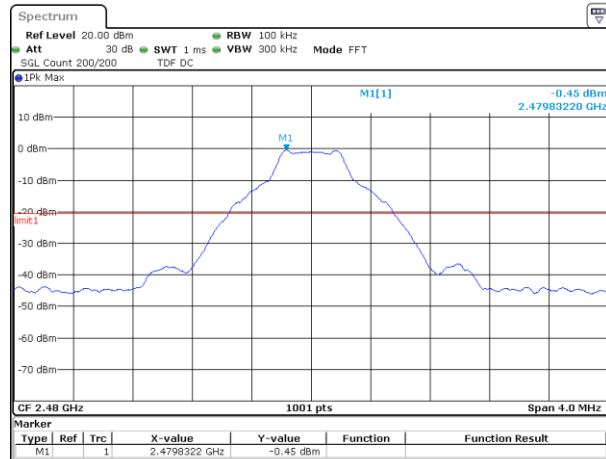


Date: 3 AUG 2026 18:09:27

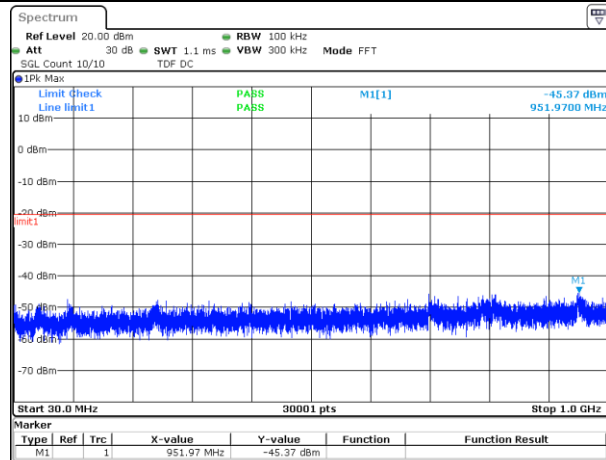


Date: 3 AUG 2026 18:09:42

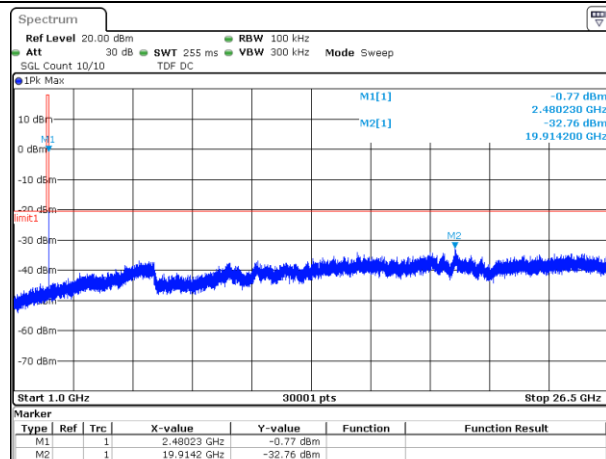
NTNV_DH5_2480_1Mbps



Date: 3 AUG 2026 18:11:24

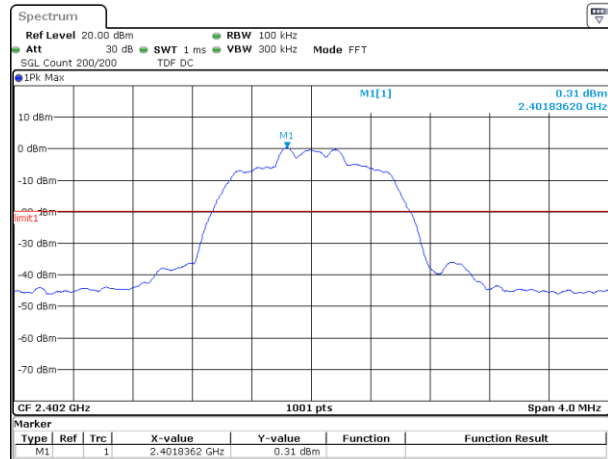


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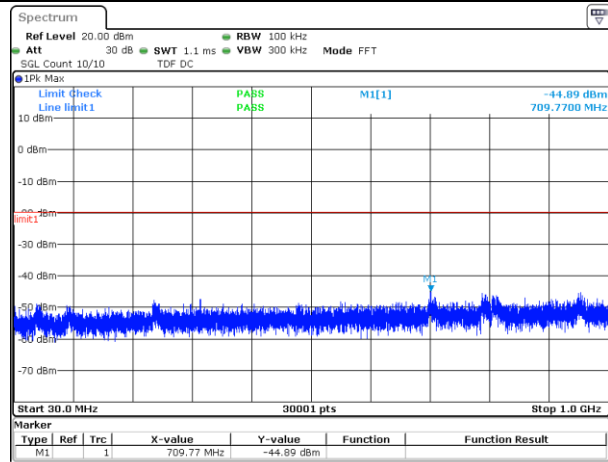


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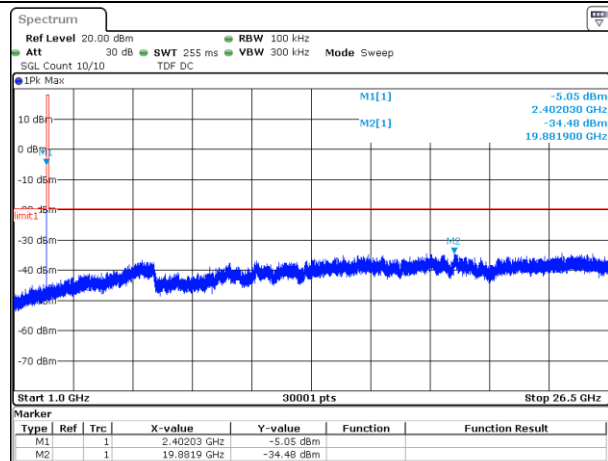
NTNV_2DH5_2402_2Mbps



Date: 3 AUG 2026 18:13:15

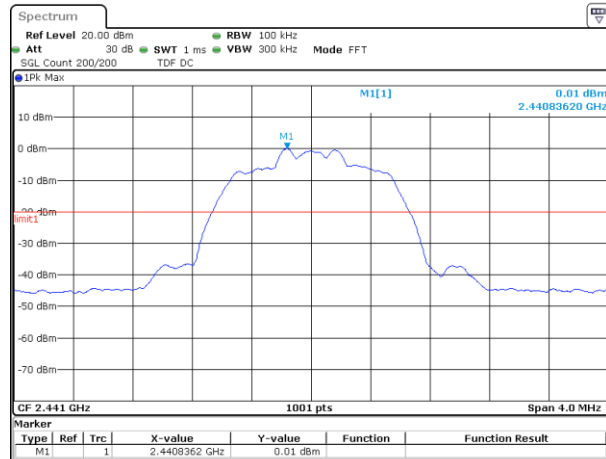


Date: 3 AUG 2026 18:13:21

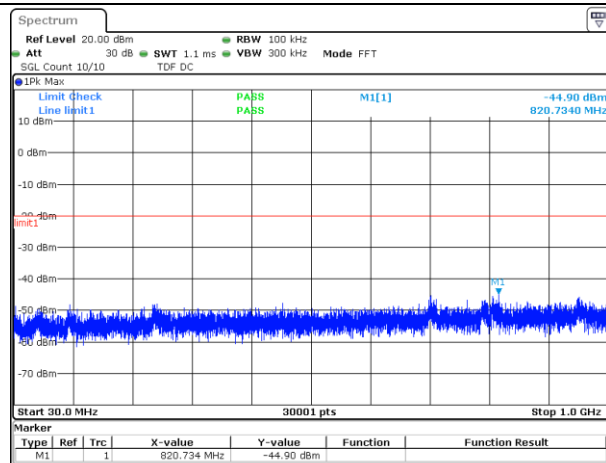


Date: 3 AUG 2026 18:13:35

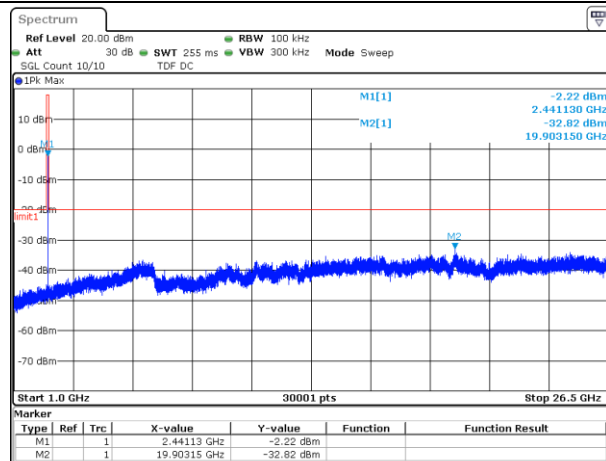
NTNV_2DH5_2441_2Mbps



Date: 3 AUG 2026 18:17:02

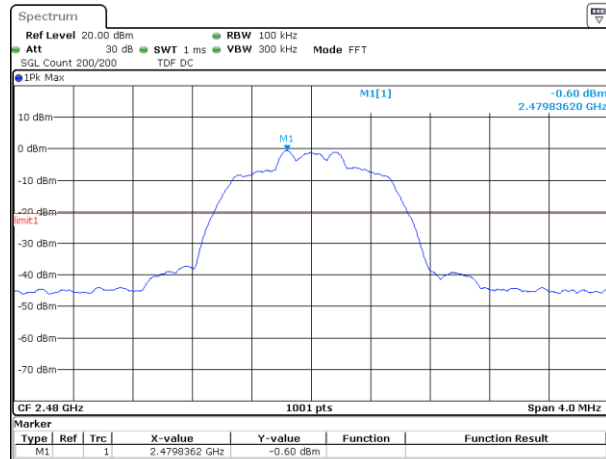


Date: 3 AUG 2026 18:17:08

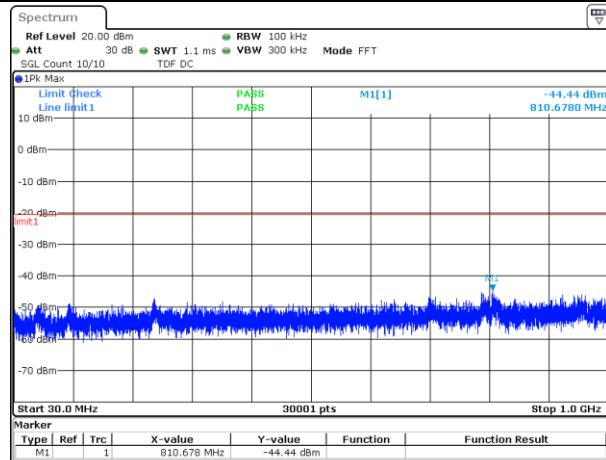


Date: 3 AUG 2026 18:17:22

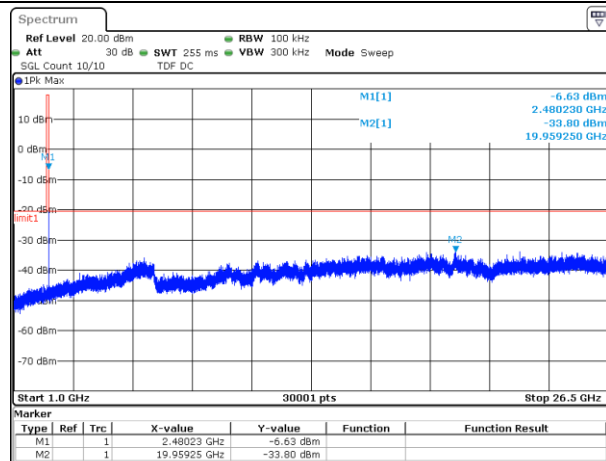
NTNV_2DH5_2480_2Mbps



Date: 3 AUG 2026 18:19:34

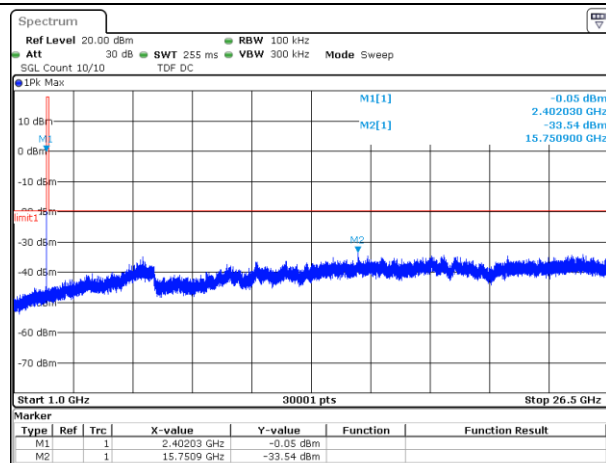
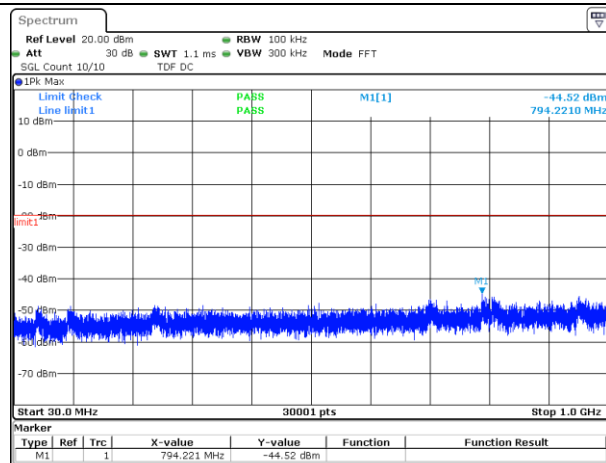
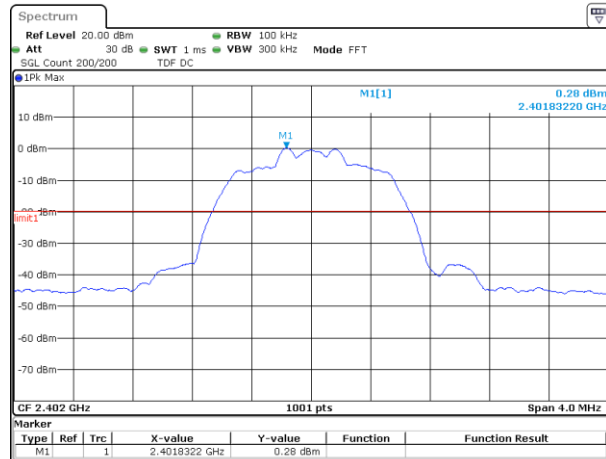


Date: 3 AUG 2026 18:19:40

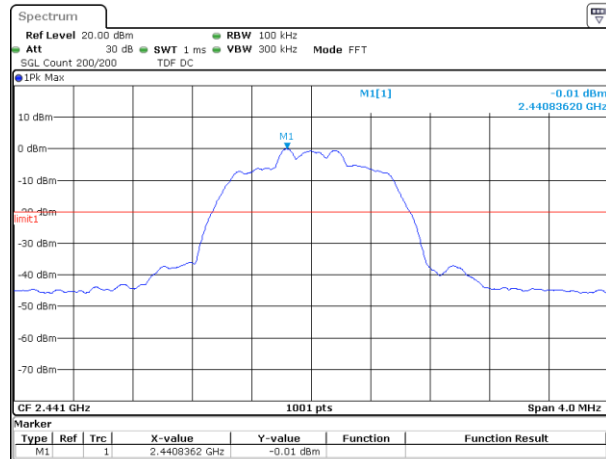


Date: 3 AUG 2026 18:19:54

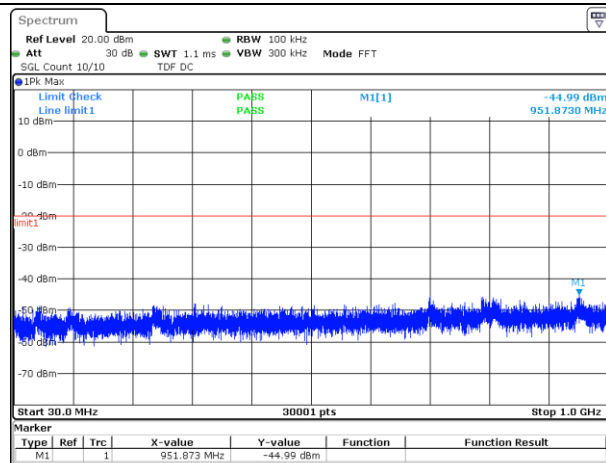
NTNV_3DH5_2402_3Mbps



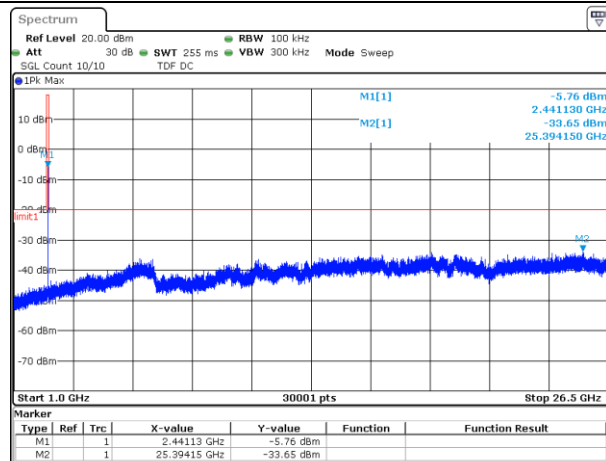
NTNV_3DH5_2441_3Mbps



Date: 3 AUG 2026 18:27:24

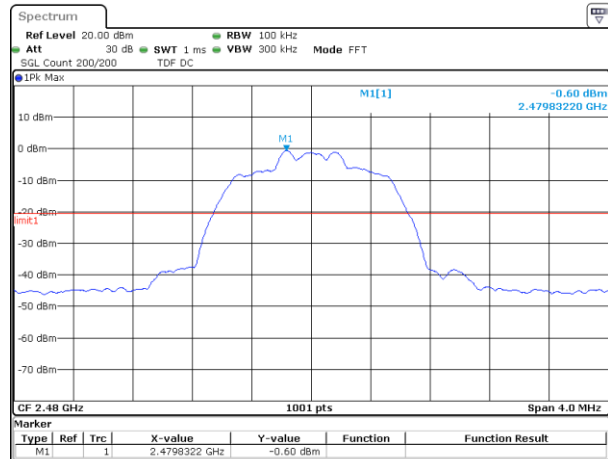


Date: 3 AUG 2026 18:27:30

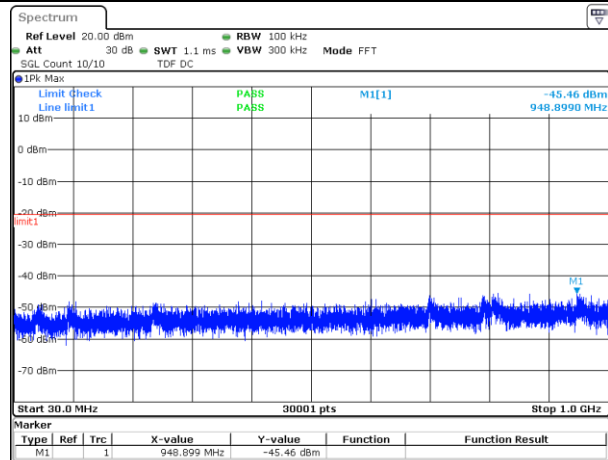


Date: 3 AUG 2026 18:27:44

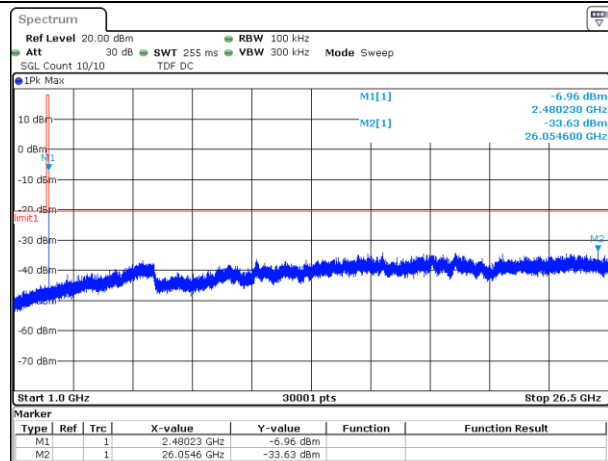
NTNV_3DH5_2480_3Mbps



Date: 3 AUG 2026 18:29:04



Date: 3 AUG 2026 18:29:10



Date: 3 AUG 2026 18:29:24

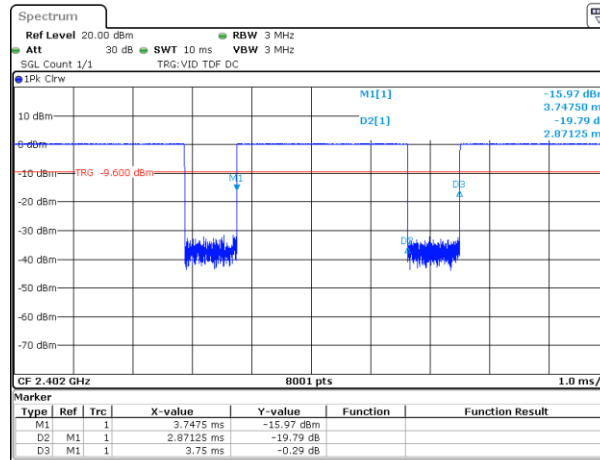
Appendix I: Duty Cycle

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	T_On (ms)	Period (ms)	Duty Cycle Correction Factor (dB)	Max DC Variation (%)
1	NTNV	DH5	2402	1Mbps	ANT1	2.87	3.75	0.77	76.57
2	NTNV	DH5	2441	1Mbps	ANT1	2.87	3.75	0.77	76.57
3	NTNV	DH5	2480	1Mbps	ANT1	2.87	3.75	0.77	76.57
4	NTNV	2DH5	2402	2Mbps	ANT1	2.88	3.75	0.77	76.90
5	NTNV	2DH5	2441	2Mbps	ANT1	2.88	3.75	0.77	76.90
6	NTNV	2DH5	2480	2Mbps	ANT1	2.88	3.75	0.77	76.87
7	NTNV	3DH5	2402	3Mbps	ANT1	2.88	3.75	0.77	76.90
8	NTNV	3DH5	2441	3Mbps	ANT1	2.88	3.75	0.77	76.87
9	NTNV	3DH5	2480	3Mbps	ANT1	2.88	3.75	0.77	76.87

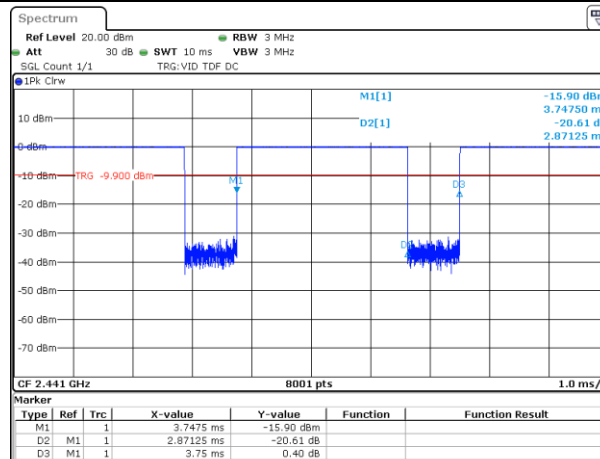
Test Graphs

NTNV_DH5_2402_1Mbps



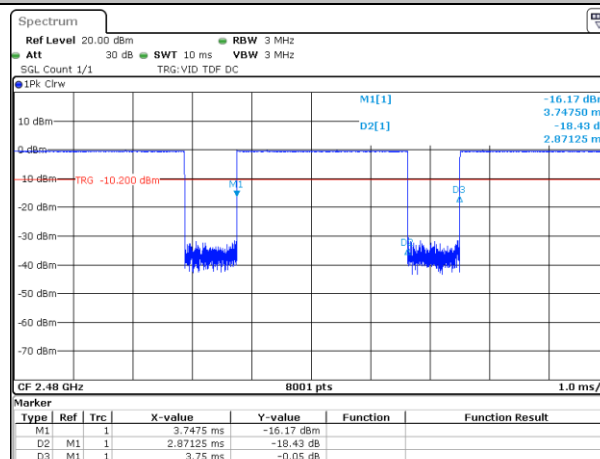
Date: 3 AUG 2026 17:58:02

NTNV_DH5_2441_1Mbps



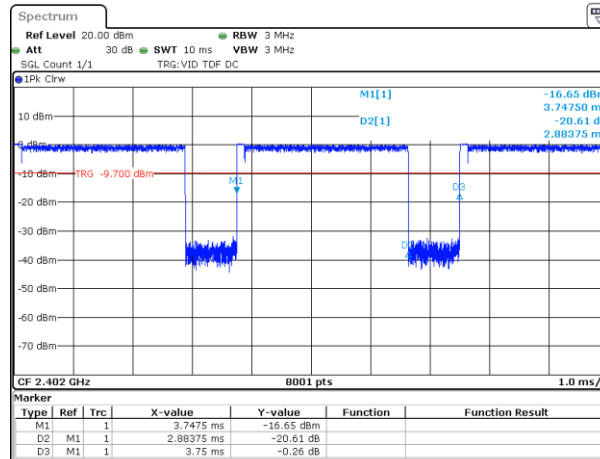
Date: 3 AUG 2026 18:08:30

NTNV_DH5_2480_1Mbps



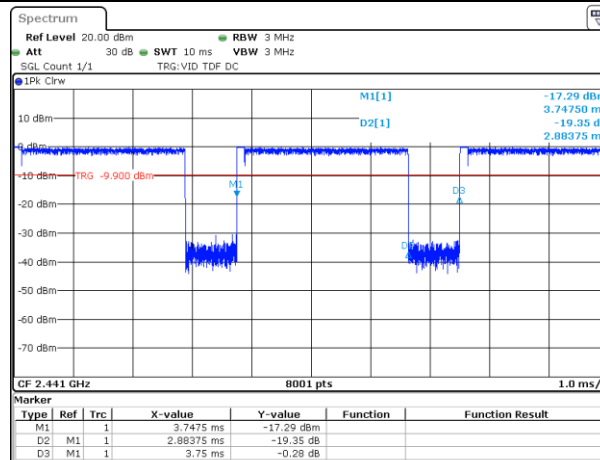
Date: 3 AUG 2026 18:10:36

NTNV_2DH5_2402_2Mbps



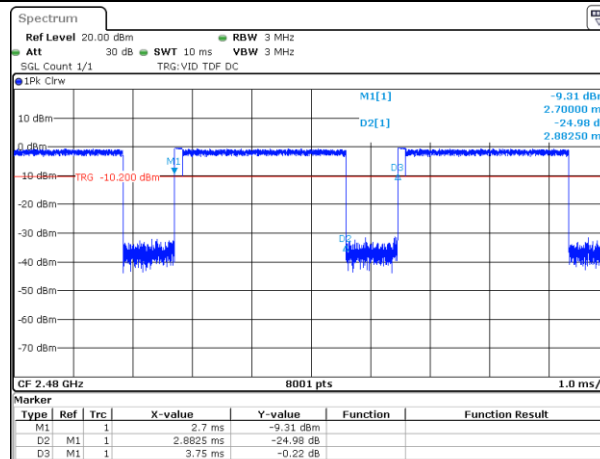
Date: 3 AUG 2026 18:12:43

NTNV_2DH5_2441_2Mbps



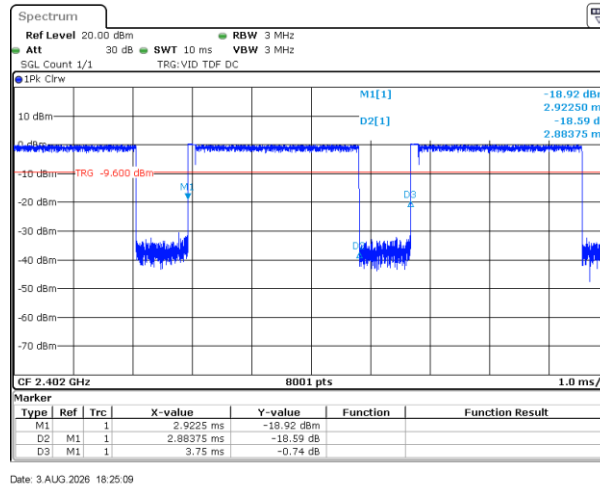
Date: 3 AUG 2026 18:16:34

NTNV_2DH5_2480_2Mbps

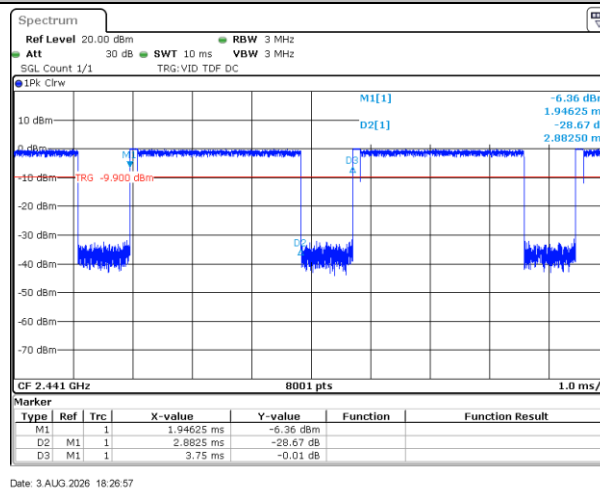


Date: 3 AUG 2026 18:19:03

NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

