Appendix: Bluetooth Classic

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Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.52	2402.47	---	---
DH5	Ant1	2441	0.96	2440.52	2441.48	---	---
DH5	Ant1	2480	0.96	2479.52	2480.48	---	---
2DH5	Ant1	2402	1.53	2401.22	2402.75	---	---
2DH5	Ant1	2441	1.53	2440.22	2441.75	---	---
2DH5	Ant1	2480	1.53	2479.22	2480.75	---	---
3DH5	Ant1	2402	1.49	2401.26	2402.75	---	---
3DH5	Ant1	2441	1.49	2440.26	2441.75	---	---
3DH5	Ant1	2480	1.49	2479.26	2480.75	---	---

Test Graphs

DH5-Ant1-2402

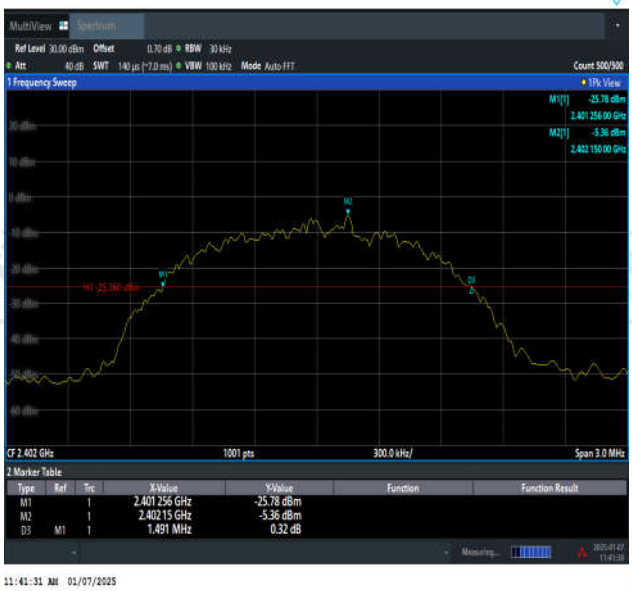
DH5-Ant1-2441

DH5-Ant1-2480

2DH5-Ant1-2402

2DH5-Ant1-2441

2DH5-Ant1-2480



3DH5-Ant1-2402

3DH5-Ant1-2441

3DH5-Ant1-2480

Appendix B: Occupied Channel Bandwidth

Test Result

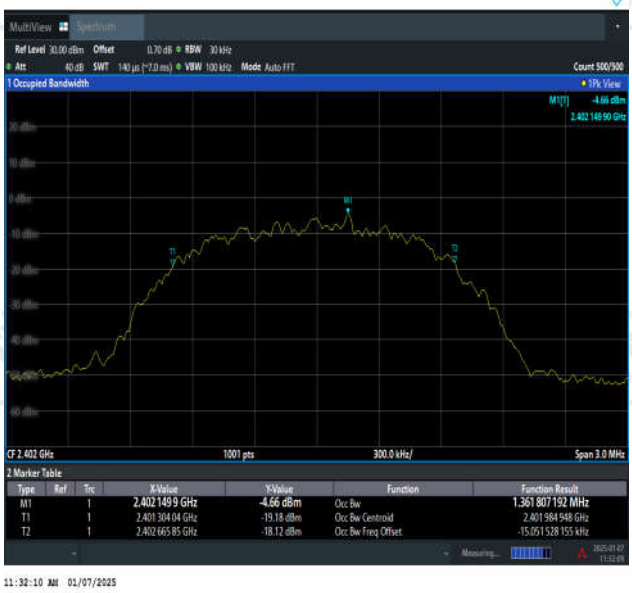
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.882	2401.5476	2402.4297	---	---
DH5	Ant1	2441	0.875	2440.5506	2441.4255	---	---
DH5	Ant1	2480	0.887	2479.5450	2480.4318	---	---
2DH5	Ant1	2402	1.362	2401.3040	2402.6659	---	---
2DH5	Ant1	2441	1.364	2440.3041	2441.6682	---	---
2DH5	Ant1	2480	1.36	2479.3044	2480.6646	---	---
3DH5	Ant1	2402	1.359	2401.3090	2402.6681	---	---
3DH5	Ant1	2441	1.361	2440.3107	2441.6717	---	---
3DH5	Ant1	2480	1.364	2479.3057	2480.6698	---	---

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

Appendix C: Maximum conducted output power

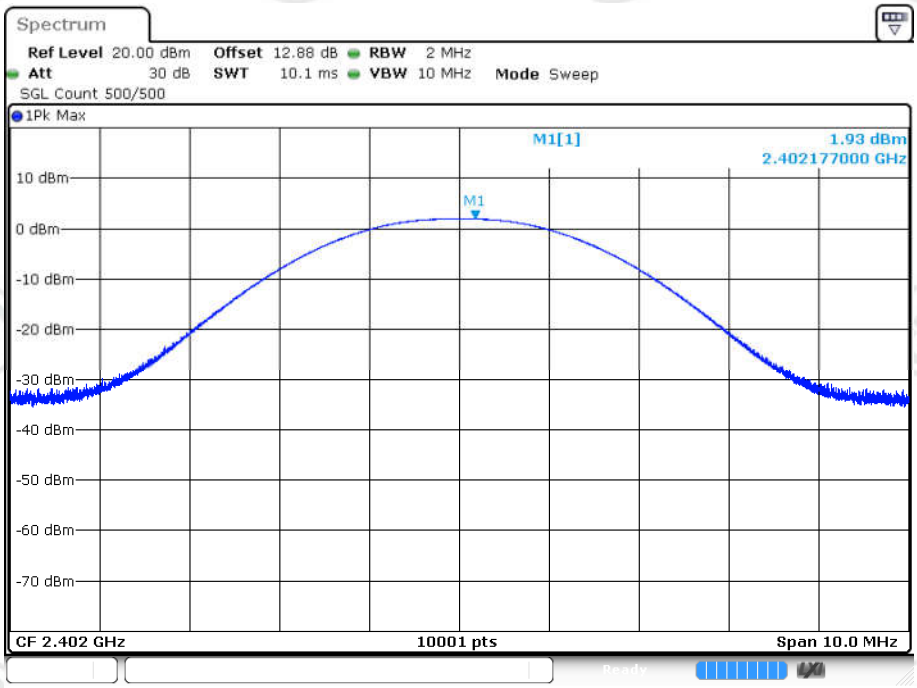
Test Result

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.93	30	Pass
NVNT	1-DH5	2441	Ant1	1.60	30	Pass
NVNT	1-DH5	2480	Ant1	1.58	30	Pass
NVNT	2-DH5	2402	Ant1	1.94	30	Pass
NVNT	2-DH5	2441	Ant1	1.59	30	Pass
NVNT	2-DH5	2480	Ant1	1.58	30	Pass
NVNT	3-DH5	2402	Ant1	**2.11**	30	Pass
NVNT	3-DH5	2441	Ant1	1.78	30	Pass
NVNT	3-DH5	2480	Ant1	1.75	30	Pass

Test Graphs

Test Graphs

Peak Power NVNT 1-DH5 2402MHz Ant1



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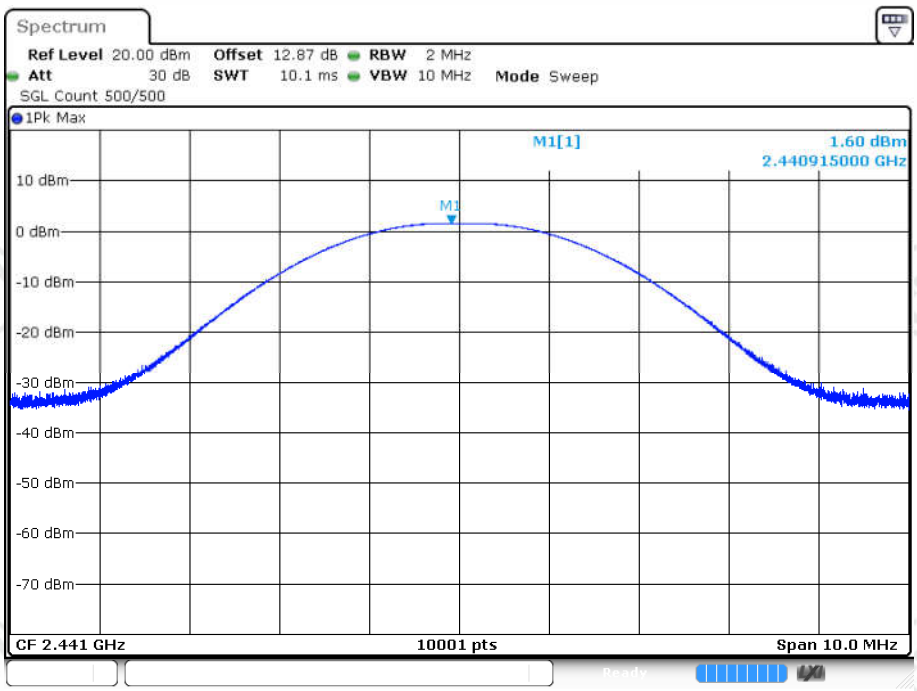
Peak Power NVNT 1-DH5 2441MHz Ant1



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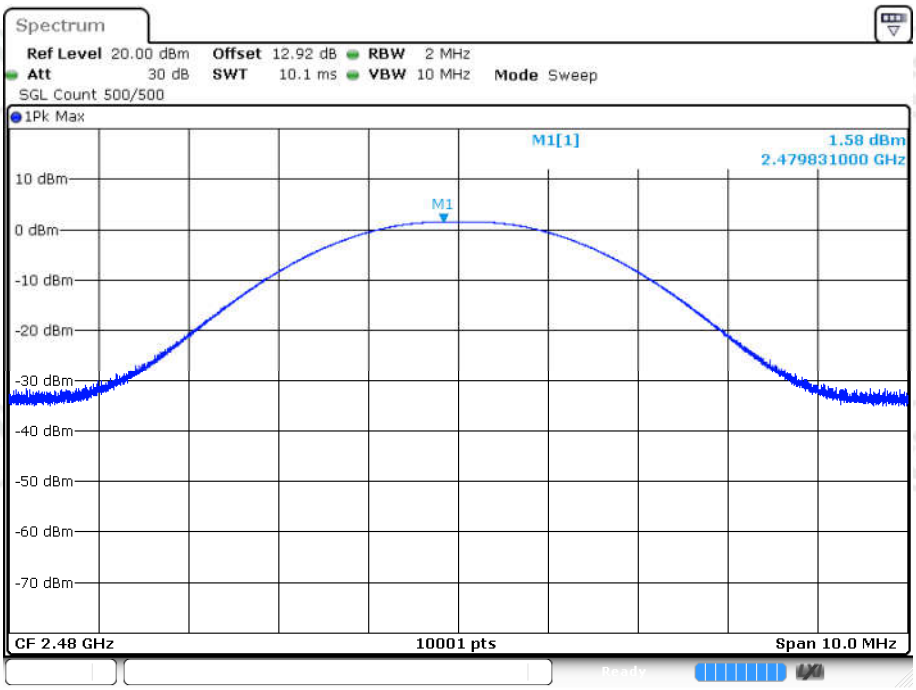
Peak Power NVNT 1-DH5 2480MHz Ant1



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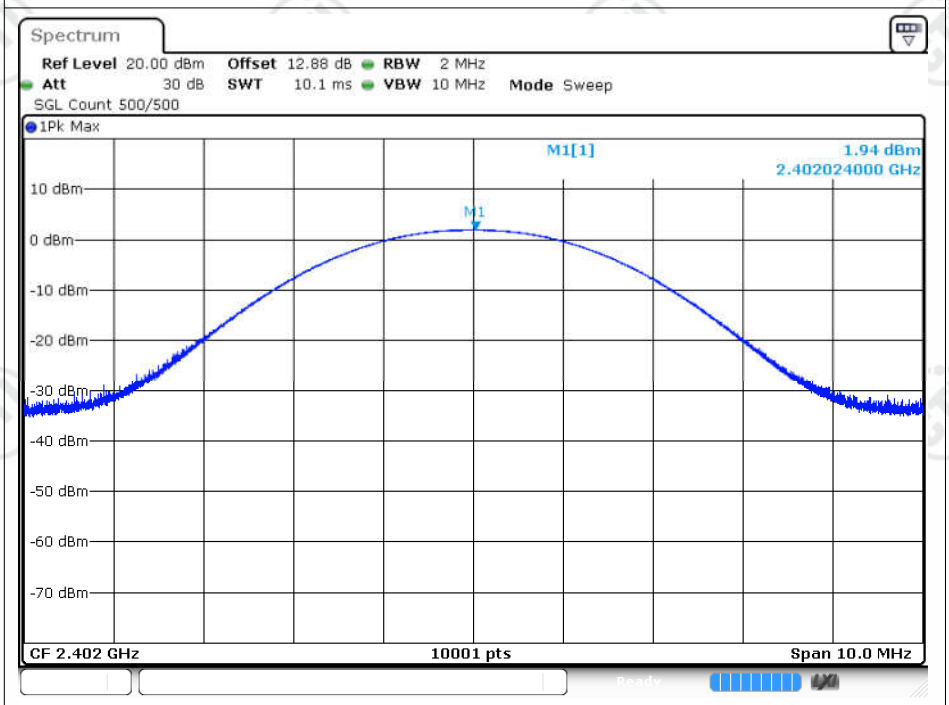
Peak Power NVNT 2-DH5 2402MHz Ant1



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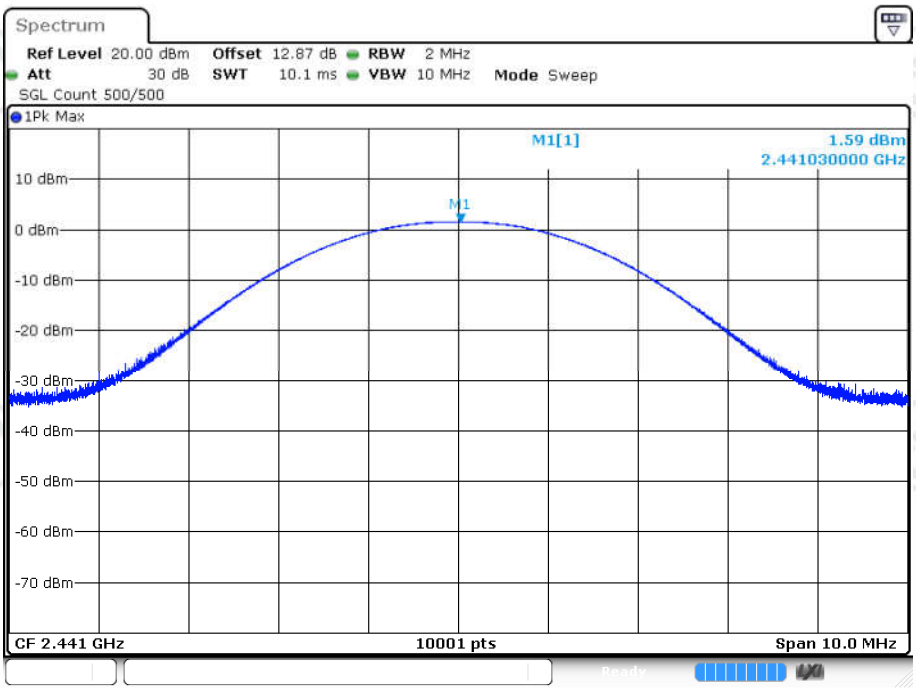
Peak Power NVNT 2-DH5 2441MHz Ant1



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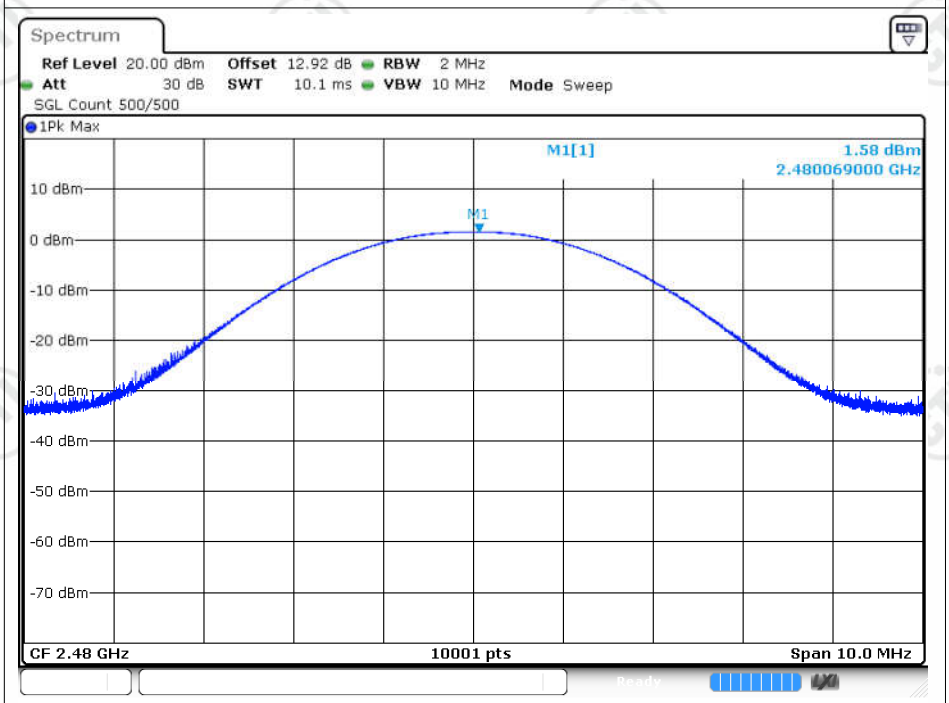
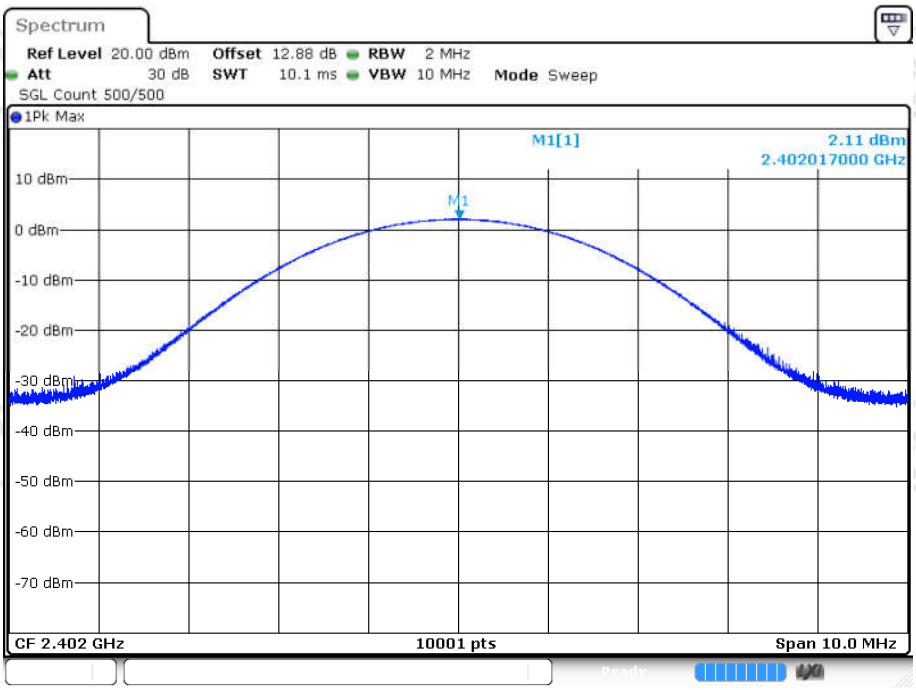
Peak Power NVNT 2-DH5 2480MHz Ant1



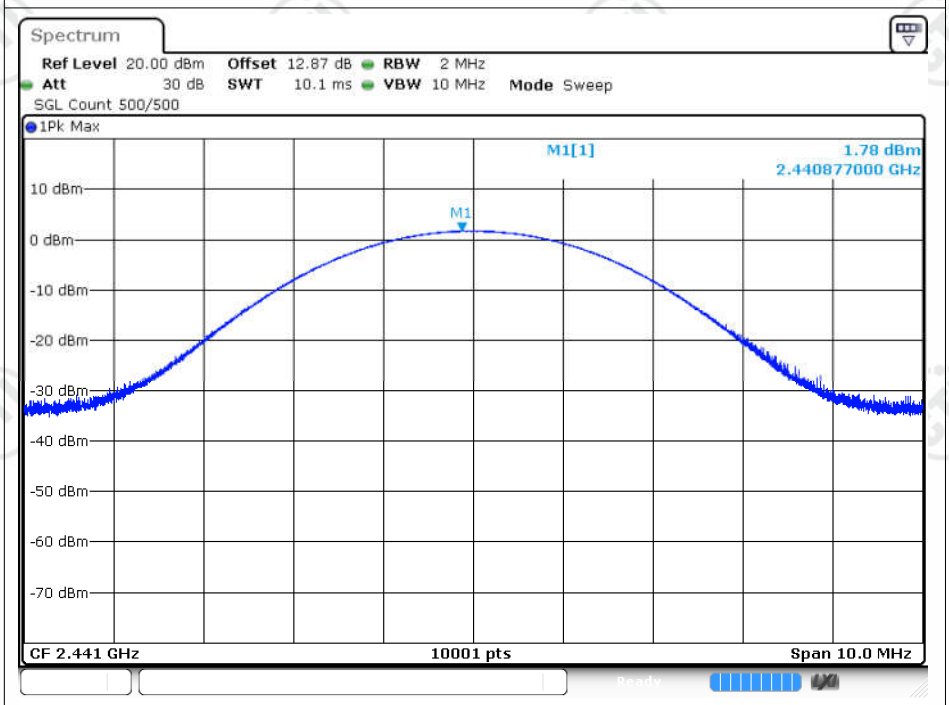
Date: 26.DEC.2024 14:40:02

Peak Power NVNT 3-DH5 2402MHz Ant1



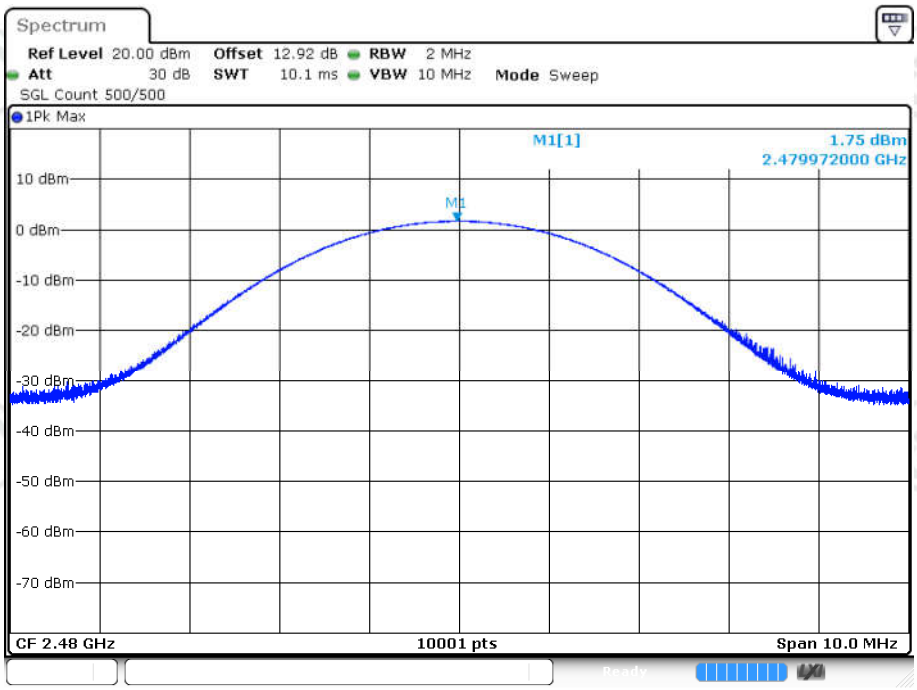
Date: 26.DEC.2024 14:41:18

Peak Power NVNT 3-DH5 2441MHz Ant1



Date: 26.DEC.2024 14:41:48

Peak Power NVNT 3-DH5 2480MHz Ant1



Date: 26.DEC.2024 14:42:15

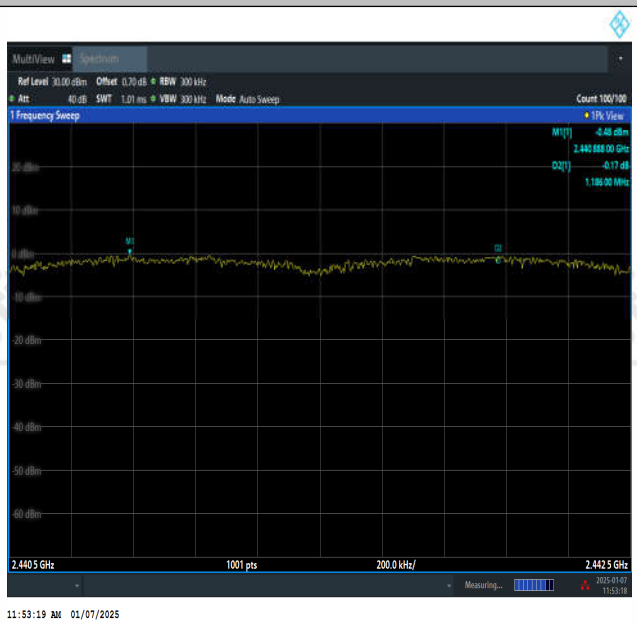
Appendix D: Carrier frequency separation

Test Result

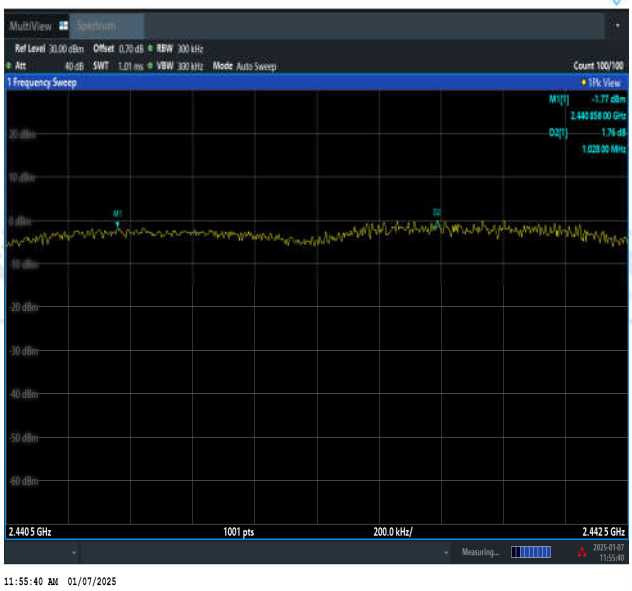
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.978	≥0.960	PASS
2DH5	Ant1	Hop	1.186	≥1.020	PASS
3DH5	Ant1	Hop	1.028	≥0.993	PASS

Test Graphs

DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



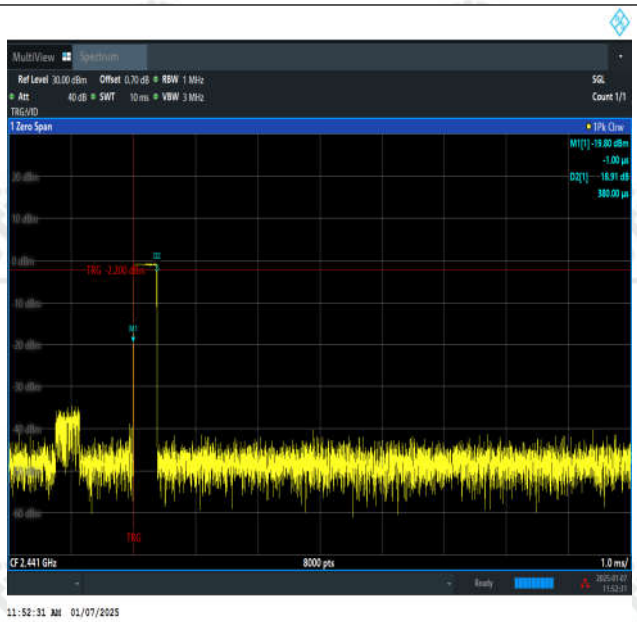
3DH5-Ant1-Hop-PASS

Appendix E: Time of occupancy

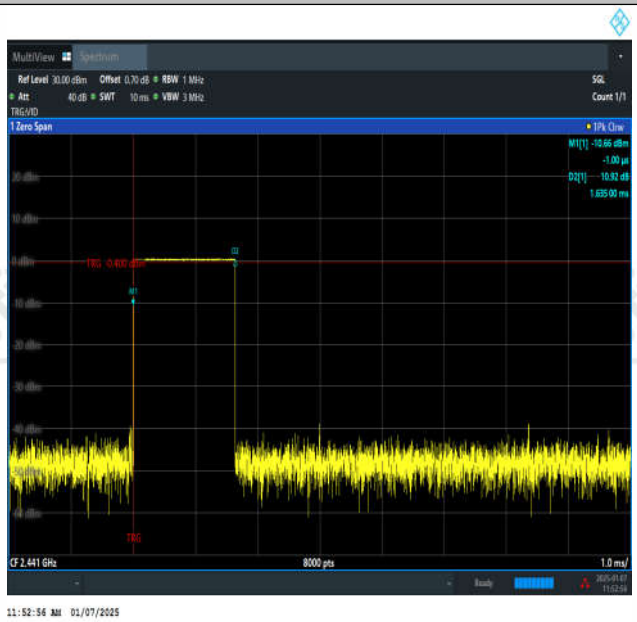
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.888	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.639	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.889	106.67	0.308	≤0.4	PASS

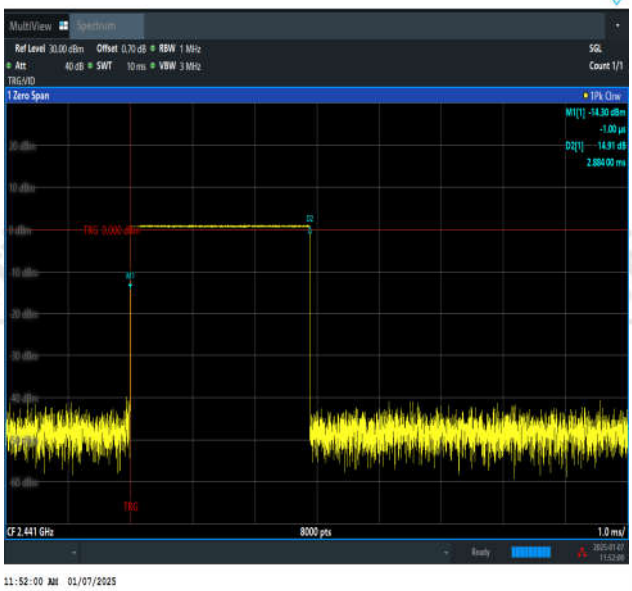
Test Graphs



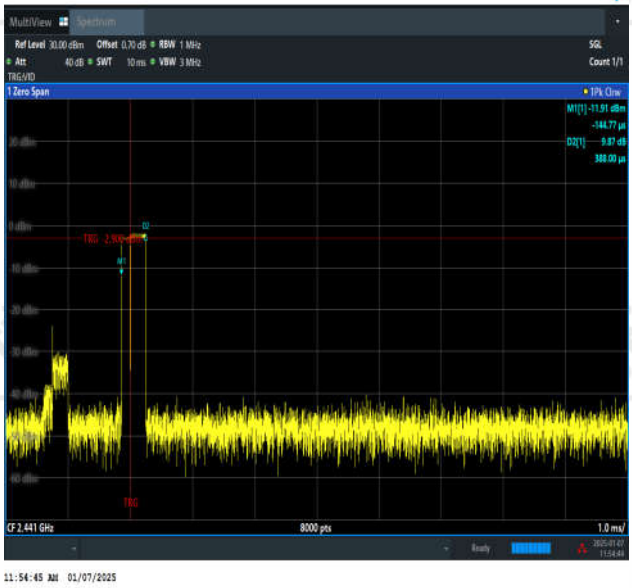
DH1-Ant1-Hop-PASS



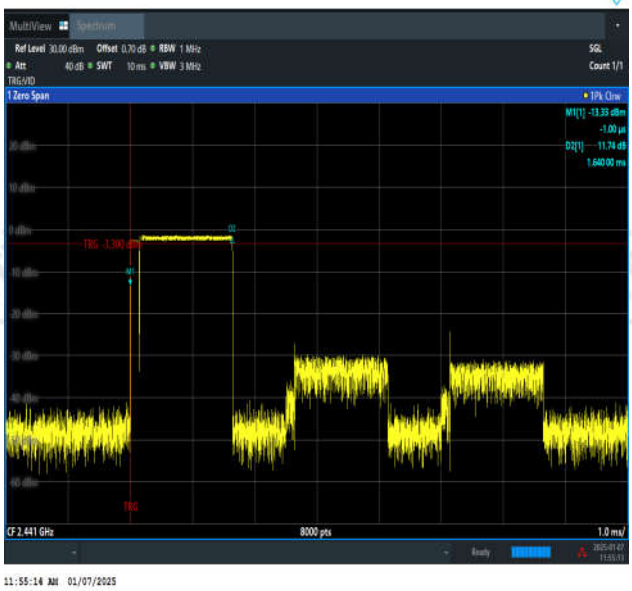
DH3-Ant1-Hop-PASS



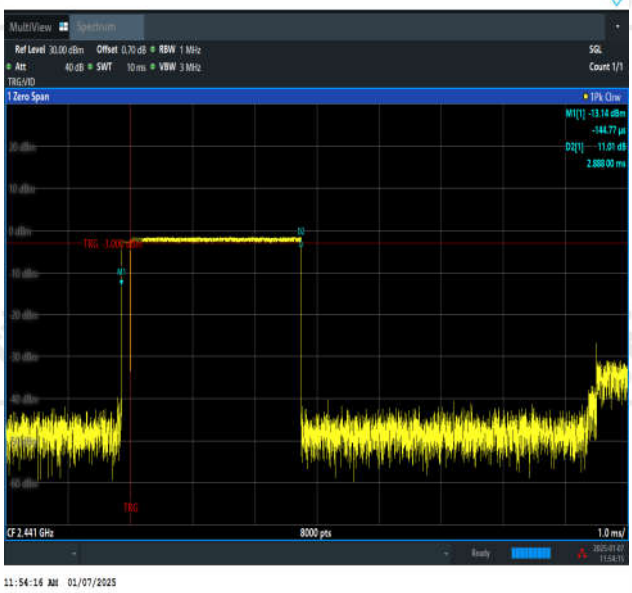
DH5-Ant1-Hop-PASS



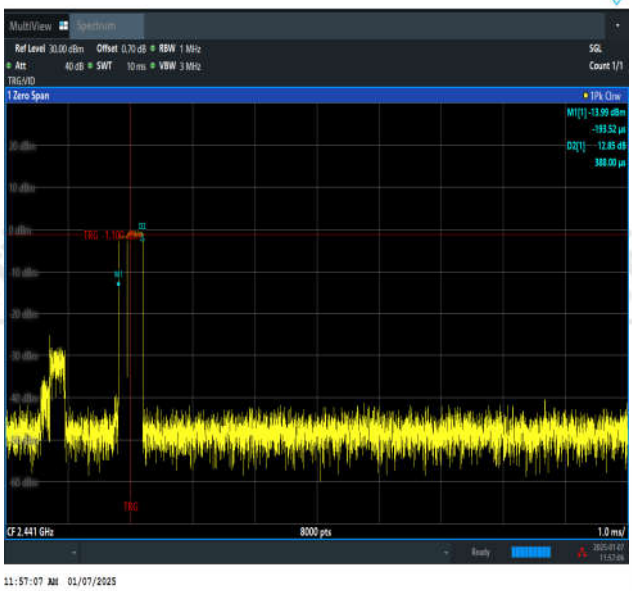
2DH1-Ant1-Hop-PASS



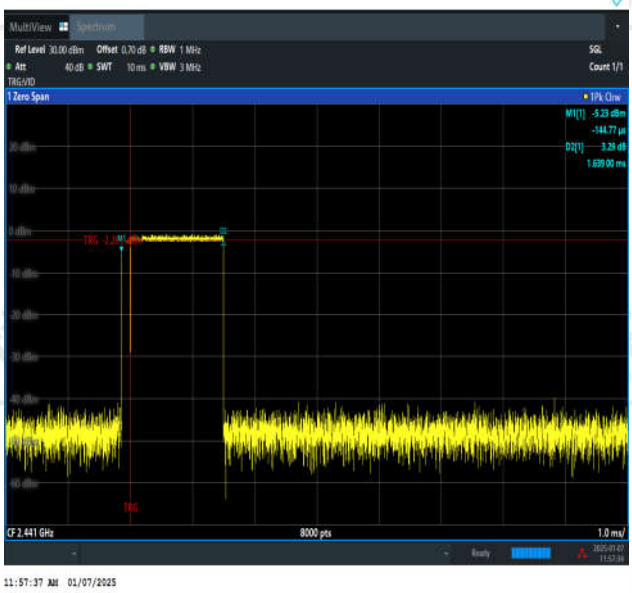
2DH3-Ant1-Hop-PASS



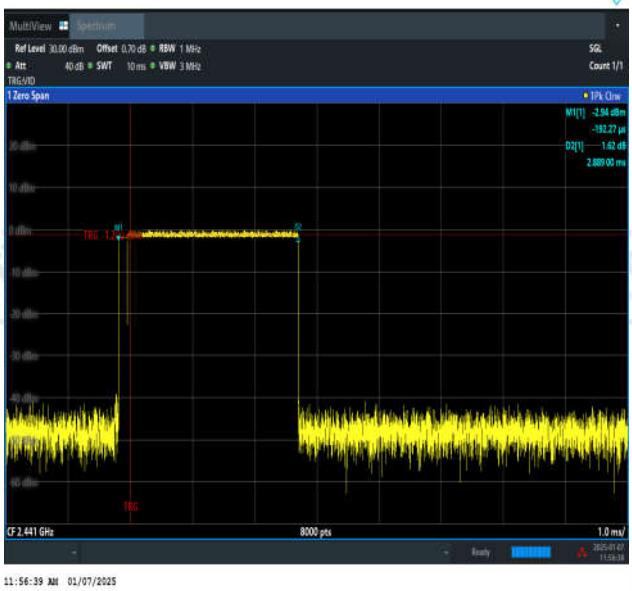
2DH5-Ant1-Hop-PASS



3DH1-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS



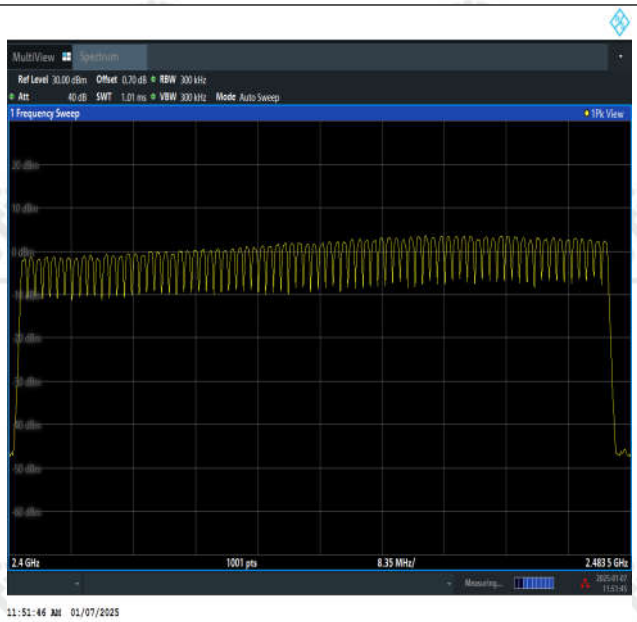
3DH5-Ant1-Hop-PASS

Appendix F: Number of hopping channels

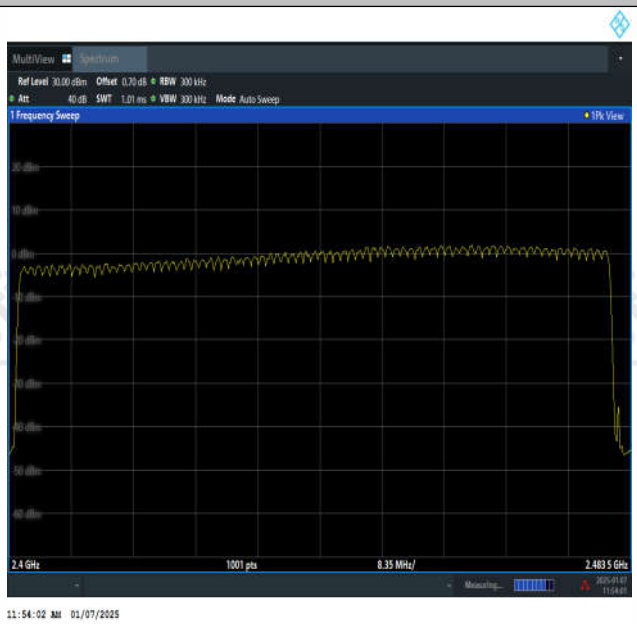
Test Result

TestMode	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

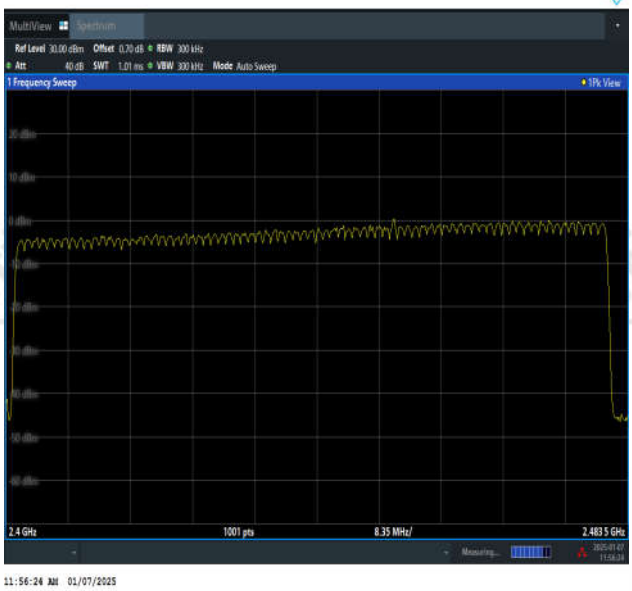
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

Appendix G: Band edge measurements

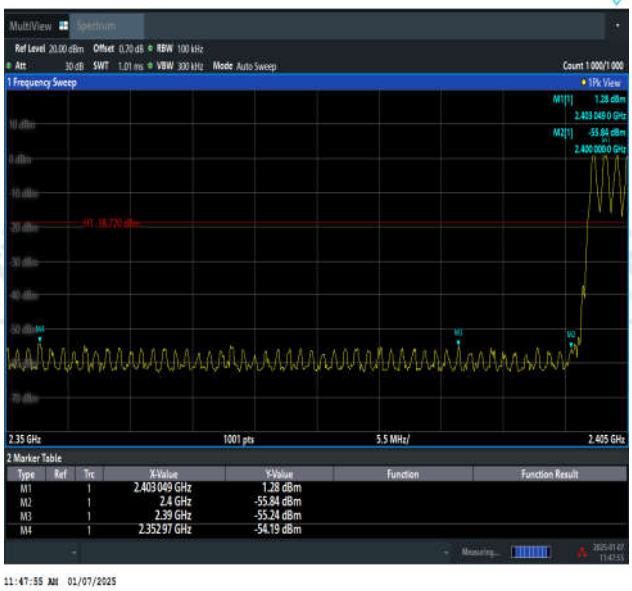
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.99	-46.87	≤-18.01	PASS
DH5	Ant1	High	2480	1.28	-44.06	≤-18.72	PASS
DH5	Ant1	Low	Hop_2402	1.28	-54.19	≤-18.72	PASS
DH5	Ant1	High	Hop_2480	2.12	-58.18	≤-17.88	PASS
2DH5	Ant1	Low	2402	-0.01	-43.82	≤-20.01	PASS
2DH5	Ant1	High	2480	-0.70	-44.24	≤-20.7	PASS
2DH5	Ant1	Low	Hop_2402	-1.03	-53.48	≤-21.03	PASS
2DH5	Ant1	High	Hop_2480	-0.19	-44.89	≤-20.19	PASS
3DH5	Ant1	Low	2402	0.03	-47.19	≤-19.97	PASS
3DH5	Ant1	High	2480	-0.58	-44.66	≤-20.58	PASS
3DH5	Ant1	Low	Hop_2402	-0.68	-48.81	≤-20.68	PASS
3DH5	Ant1	High	Hop_2480	0.02	-44.18	≤-19.98	PASS

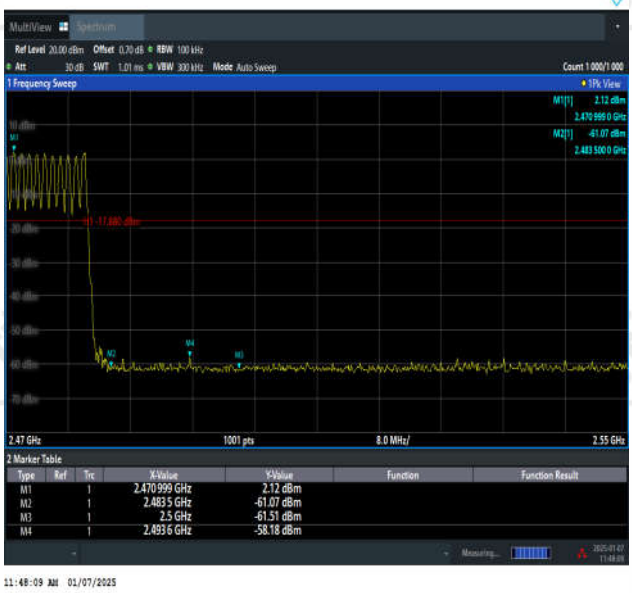
Test Graphs

DH5-Ant1-2402-PASS

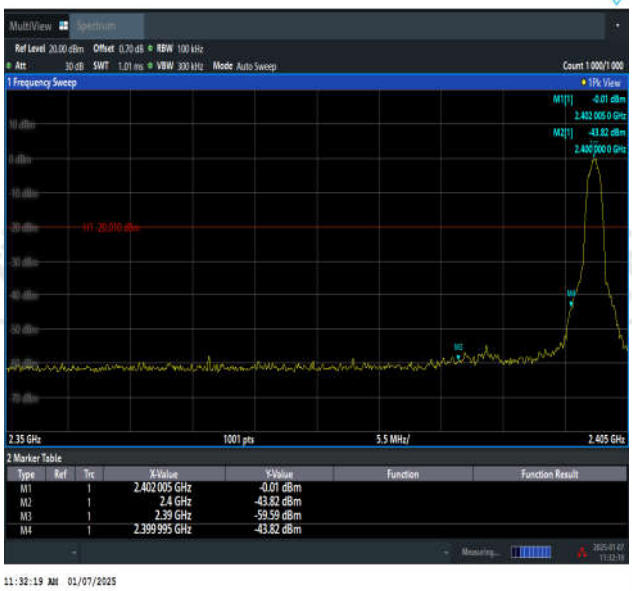
DH5-Ant1-2480-PASS



DH5-Ant1-Hop_2402-PASS



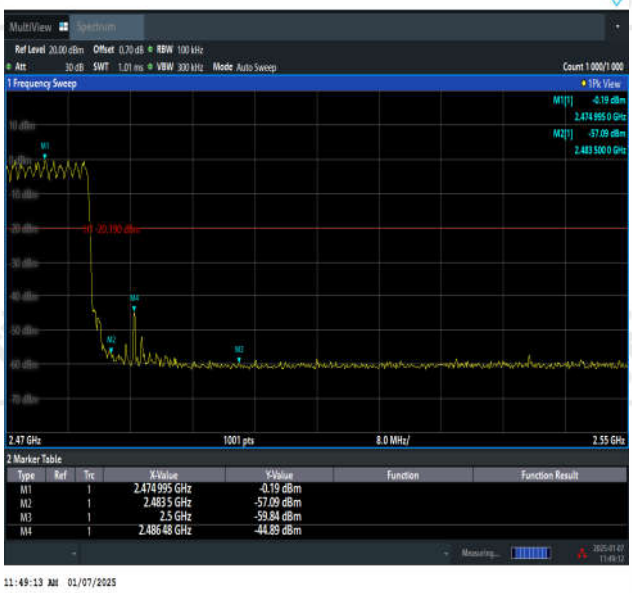
DH5-Ant1-Hop_2480-PASS



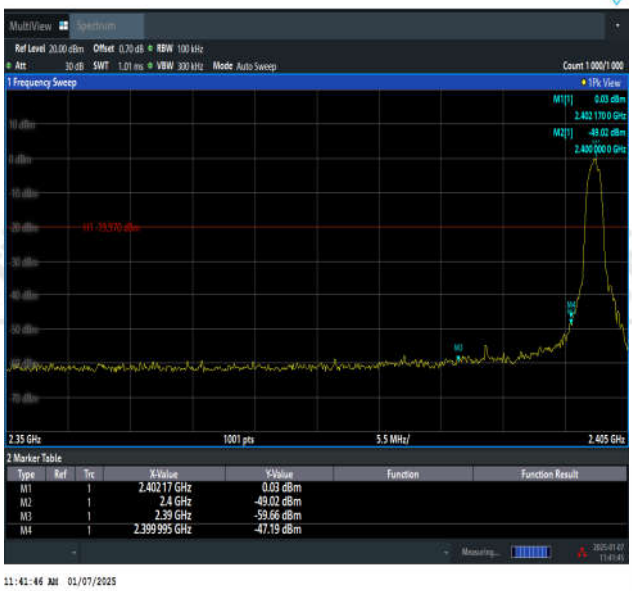
2DH5-Ant1-2402-PASS

2DH5-Ant1-2480-PASS

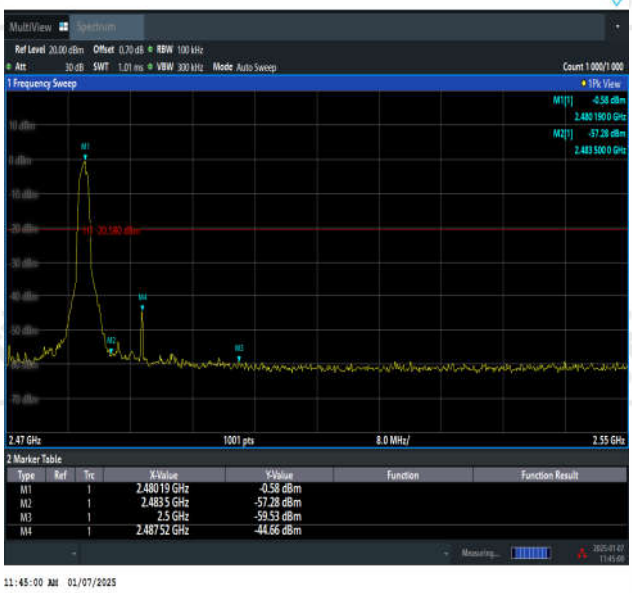
2DH5-Ant1-Hop_2402-PASS



2DH5-Ant1-Hop_2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS

3DH5-Ant1-Hop_2402-PASS

3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

Test Result

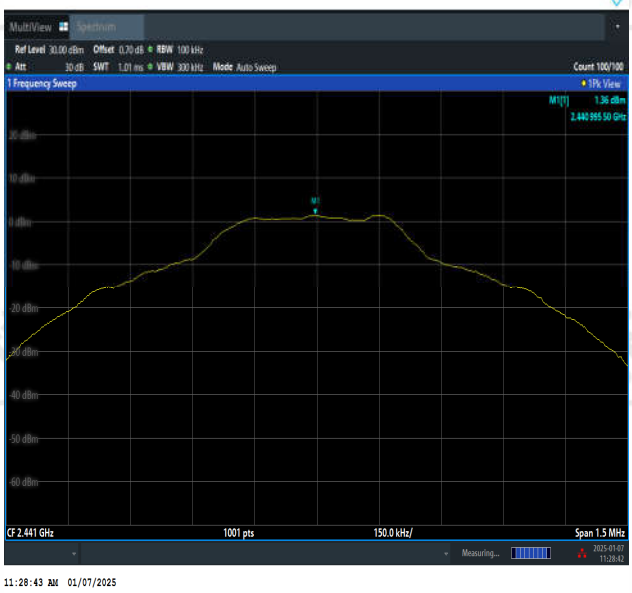
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	2.00	2.00	---	PASS
DH5	Ant1	2402	30~1000	2.00	-67.18	≤-18	PASS
DH5	Ant1	2402	1000~26500	2.00	-61.06	≤-18	PASS
DH5	Ant1	2441	0~Reference	1.36	1.36	---	PASS
DH5	Ant1	2441	30~1000	1.36	-66.61	≤-18.64	PASS
DH5	Ant1	2441	1000~26500	1.36	-60.09	≤-18.64	PASS
DH5	Ant1	2480	0~Reference	1.30	1.30	---	PASS
DH5	Ant1	2480	30~1000	1.30	-67.25	≤-18.7	PASS
DH5	Ant1	2480	1000~26500	1.30	-60.23	≤-18.7	PASS
2DH5	Ant1	2402	0~Reference	-0.01	-0.01	---	PASS
2DH5	Ant1	2402	30~1000	-0.01	-67.06	≤-20.01	PASS
2DH5	Ant1	2402	1000~26500	-0.01	-52.77	≤-20.01	PASS
2DH5	Ant1	2441	0~Reference	-0.63	-0.63	---	PASS
2DH5	Ant1	2441	30~1000	-0.63	-66.88	≤-20.63	PASS
2DH5	Ant1	2441	1000~26500	-0.63	-60.31	≤-20.63	PASS
2DH5	Ant1	2480	0~Reference	-0.64	-0.64	---	PASS
2DH5	Ant1	2480	30~1000	-0.64	-67.19	≤-20.64	PASS
2DH5	Ant1	2480	1000~26500	-0.64	-50.52	≤-20.64	PASS
3DH5	Ant1	2402	0~Reference	0.05	0.05	---	PASS
3DH5	Ant1	2402	30~1000	0.05	-67.13	≤-19.95	PASS
3DH5	Ant1	2402	1000~26500	0.05	-59.94	≤-19.95	PASS
3DH5	Ant1	2441	0~Reference	-0.55	-0.55	---	PASS
3DH5	Ant1	2441	30~1000	-0.55	-67.11	≤-20.55	PASS
3DH5	Ant1	2441	1000~26500	-0.55	-59.48	≤-20.55	PASS
3DH5	Ant1	2480	0~Reference	-0.58	-0.58	---	PASS
3DH5	Ant1	2480	30~1000	-0.58	-67.3	≤-20.58	PASS
3DH5	Ant1	2480	1000~26500	-0.58	-60.06	≤-20.58	PASS

Test Graphs

DH5-Ant1-2402-0~Reference-PASS

DH5-Ant1-2402-30~1000-PASS

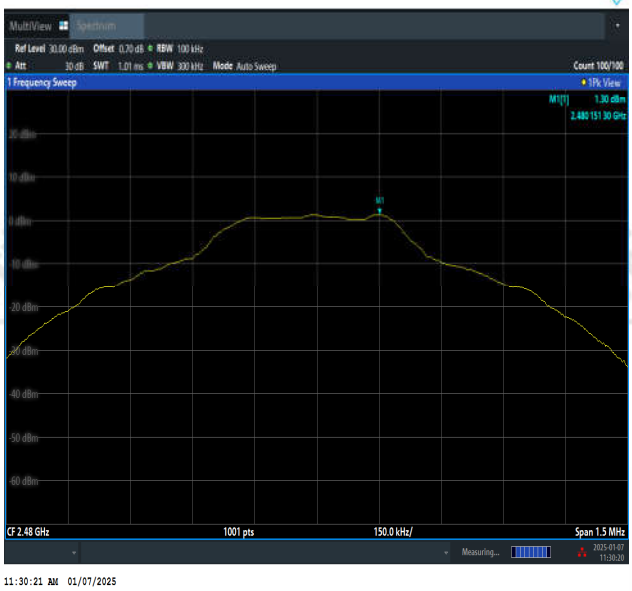
DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS

DH5-Ant1-2441-30~1000-PASS

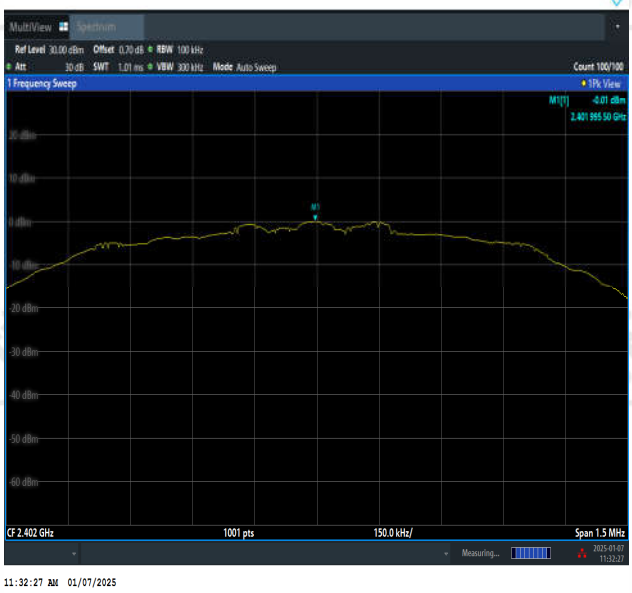
DH5-Ant1-2441-1000~26500-PASS



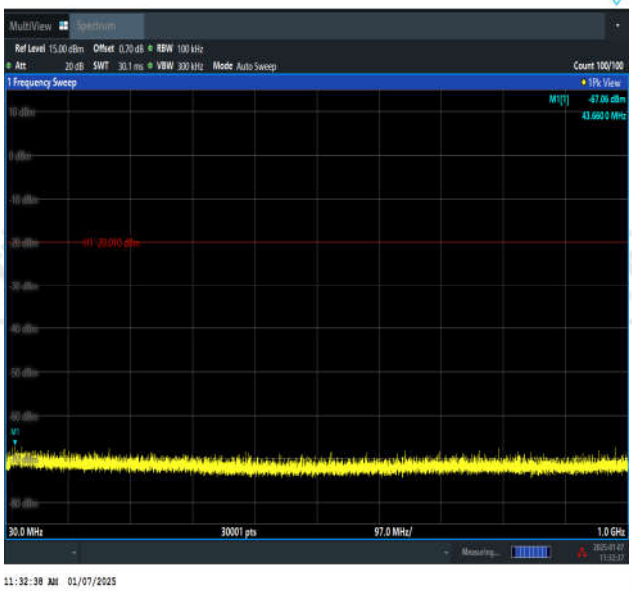
DH5-Ant1-2480-0~Reference-PASS

DH5-Ant1-2480-30~1000-PASS

DH5-Ant1-2480-1000~26500-PASS

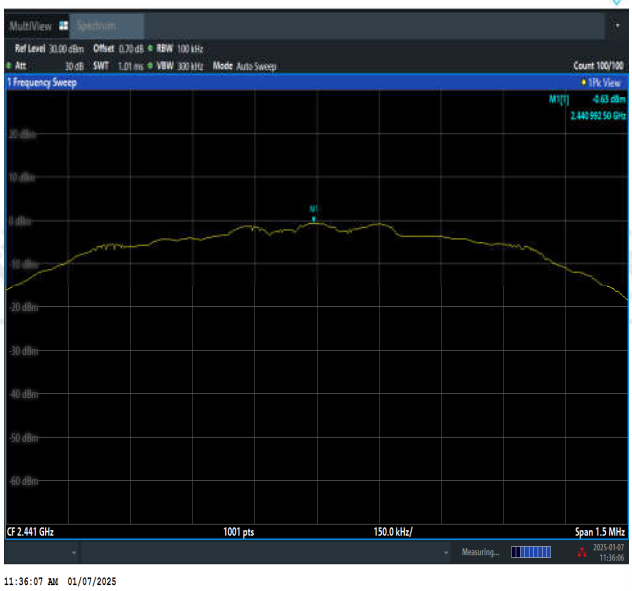


2DH5-Ant1-2402-0~Reference-PASS

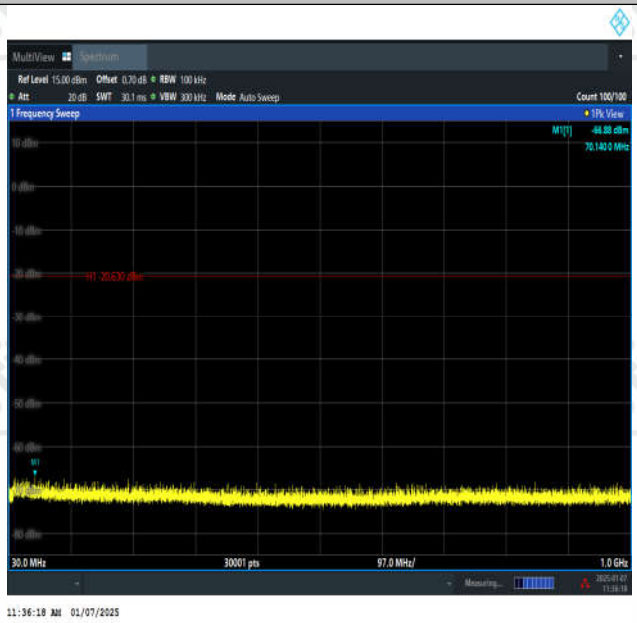


2DH5-Ant1-2402-30~1000-PASS

2DH5-Ant1-2402-1000~26500-PASS

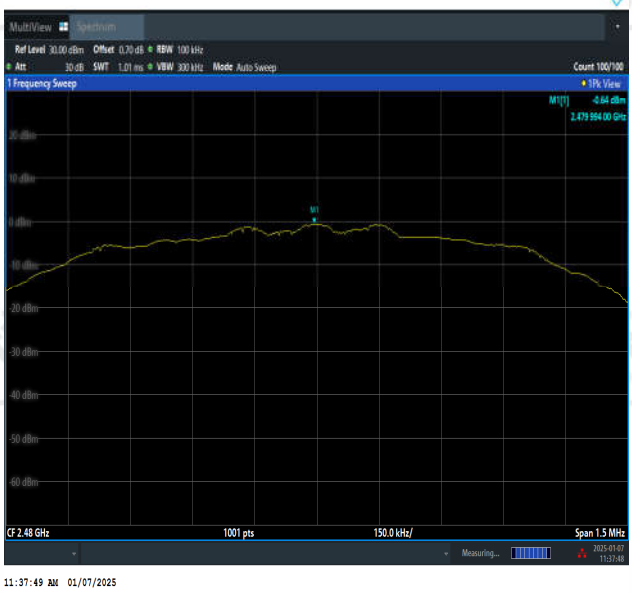


2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS

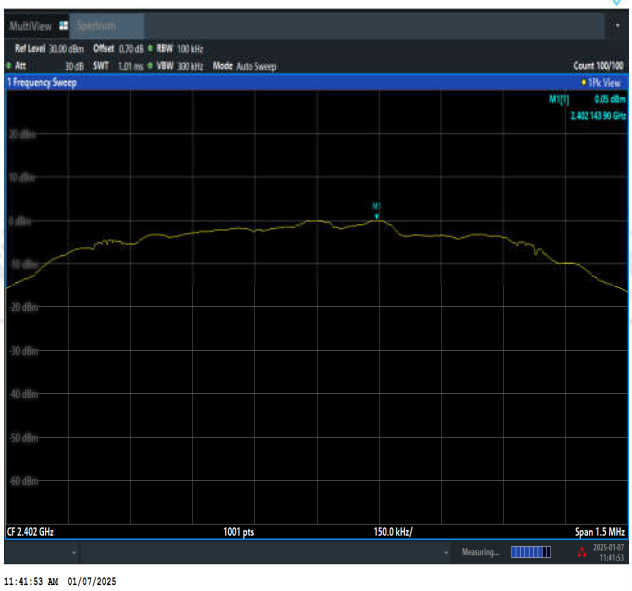
2DH5-Ant1-2441-1000~26500-PASS



2DH5-Ant1-2480-0~Reference-PASS

2DH5-Ant1-2480-30~1000-PASS

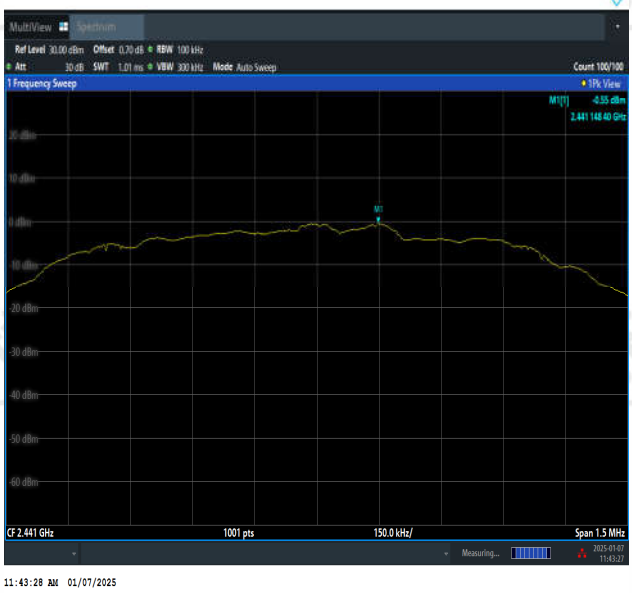
2DH5-Ant1-2480-1000~26500-PASS



3DH5-Ant1-2402-0~Reference-PASS

3DH5-Ant1-2402-30~1000-PASS

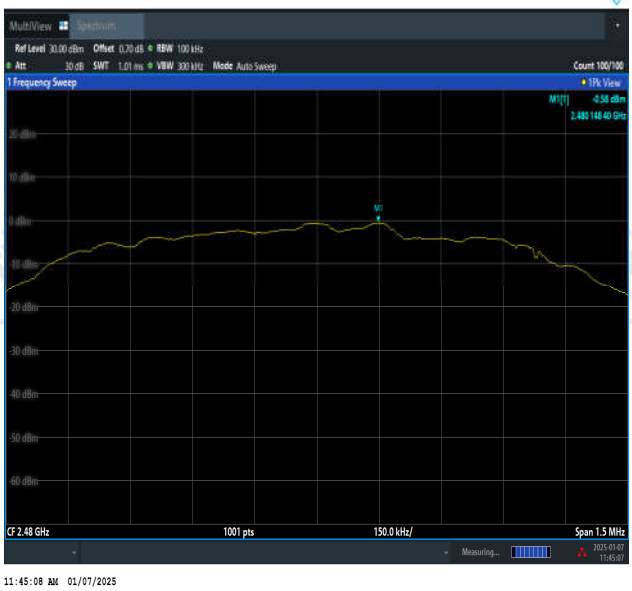
3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS

3DH5-Ant1-2441-30~1000-PASS

3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS

3DH5-Ant1-2480-30~1000-PASS

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

Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.76	76.86	1.14
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.89	3.76	76.86	1.14
2DH5	Ant1	2441	2.89	3.76	76.86	1.14
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.90	3.76	77.13	1.13
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

NTNV-DH5-Ant1-2402

NTNV-DH5-Ant1-2441

NTNV-DH5-Ant1-2480

NTNV-2DH5-Ant1-2402

NTNV-2DH5-Ant1-2441

NTNV-2DH5-Ant1-2480

NTNV-3DH5-Ant1-2402

NTNV-3DH5-Ant1-2441

NTNV-3DH5-Ant1-2480

END OF REPORT