

RF Test Data for Bluetooth (BR+EDR) (Conducted Measurements)

General Description of EUT	
EUT Name:	Ebook Reader
Model:	B6
Sample ID:	HC-C-202506-0031-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.85V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202506-0031-17	

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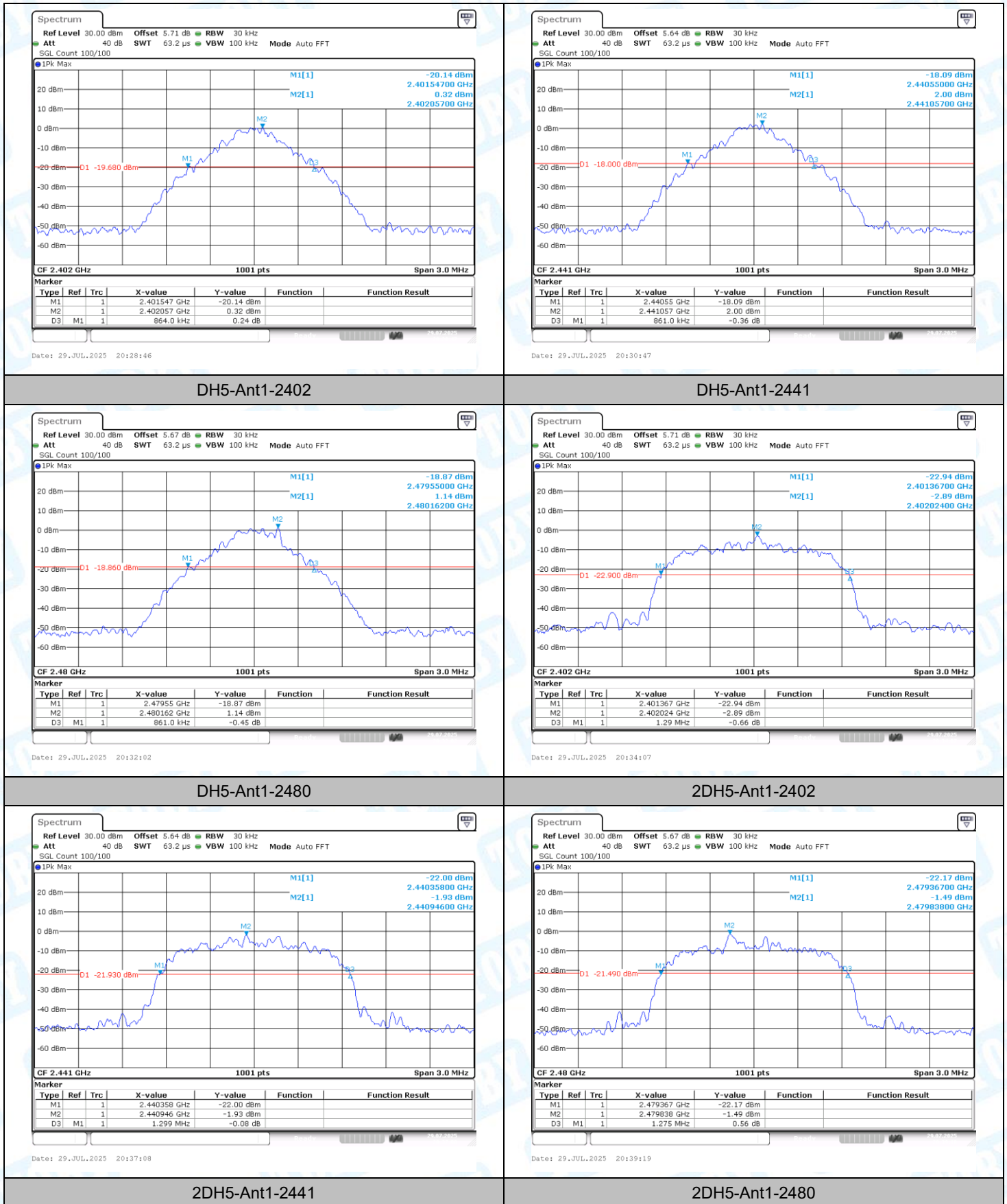
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1: 20dB Emission Bandwidth

1.1 Test Result

Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	2401.55	2402.41	---	---
DH5	Ant1	2441	0.86	2440.55	2441.41	---	---
DH5	Ant1	2480	0.86	2479.55	2480.41	---	---
2DH5	Ant1	2402	1.29	2401.37	2402.66	---	---
2DH5	Ant1	2441	1.30	2440.36	2441.66	---	---
2DH5	Ant1	2480	1.27	2479.37	2480.64	---	---
3DH5	Ant1	2402	1.27	2401.36	2402.63	---	---
3DH5	Ant1	2441	1.30	2440.35	2441.65	---	---
3DH5	Ant1	2480	1.27	2479.36	2480.63	---	---

1.2 Test Graphs

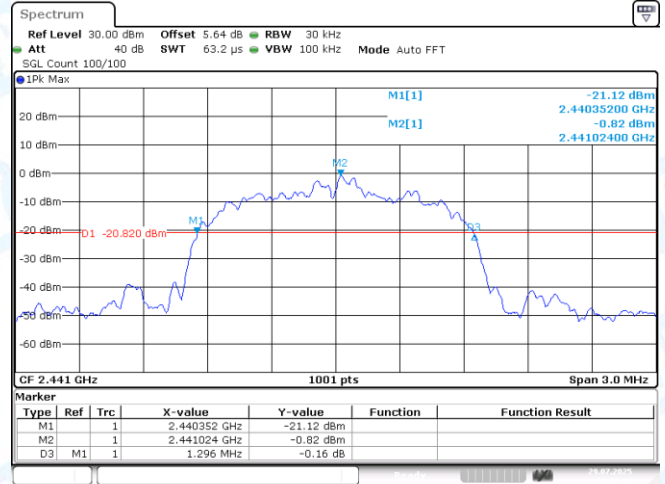


2DH5-Ant1-2441

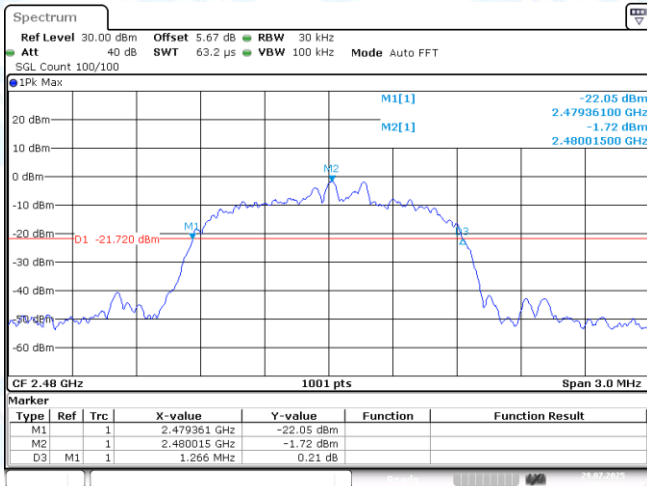
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



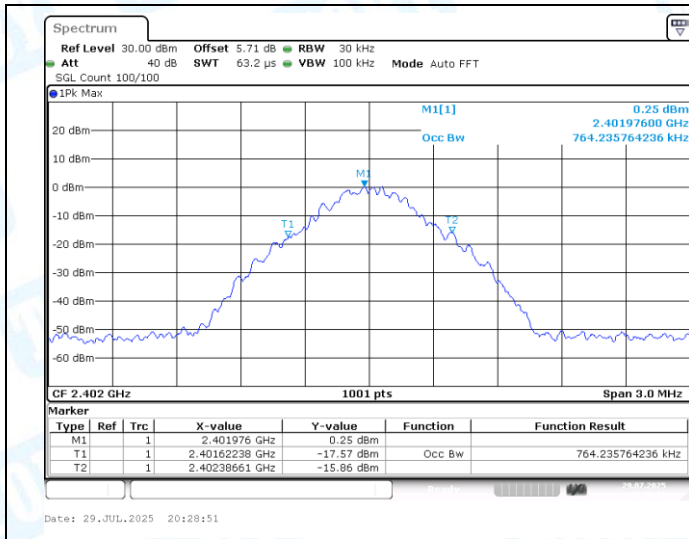
3DH5-Ant1-2480

2: Occupied Channel Bandwidth

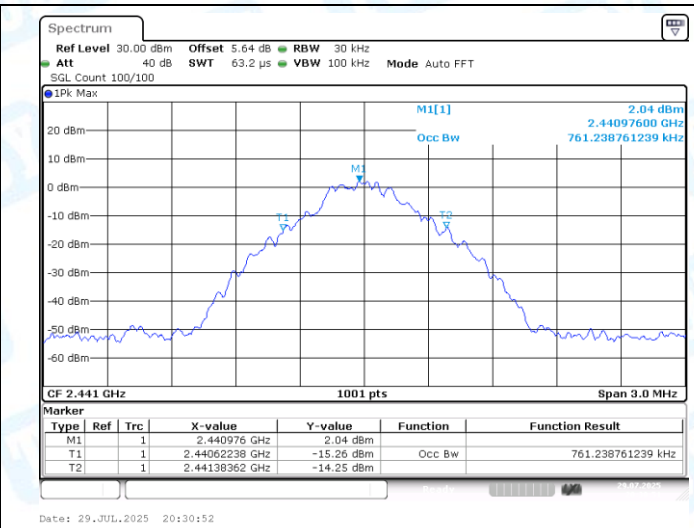
2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.76424	2401.6224	2402.3866	---	---
DH5	Ant1	2441	0.76124	2440.6224	2441.3836	---	---
DH5	Ant1	2480	0.76124	2479.6224	2480.3836	---	---
2DH5	Ant1	2402	1.1568	2401.4216	2402.5784	---	---
2DH5	Ant1	2441	1.1688	2440.4126	2441.5814	---	---
2DH5	Ant1	2480	1.1568	2479.4186	2480.5754	---	---
3DH5	Ant1	2402	1.2018	2401.3946	2402.5964	---	---
3DH5	Ant1	2441	1.1598	2440.4216	2441.5814	---	---
3DH5	Ant1	2480	1.1508	2479.4246	2480.5754	---	---

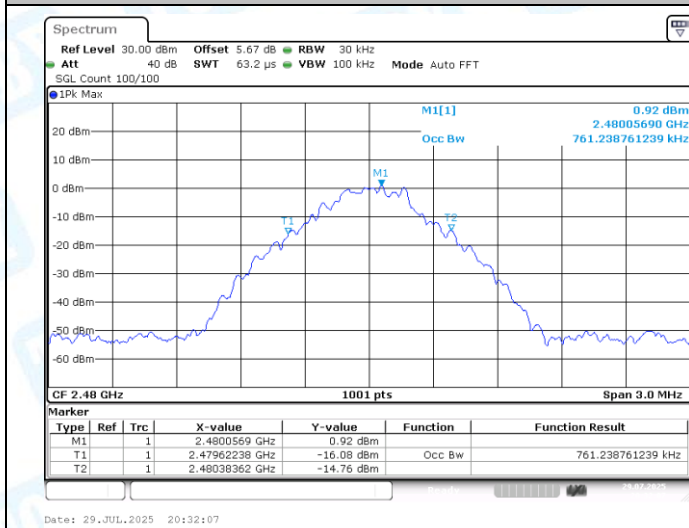
2.2 Test Graphs



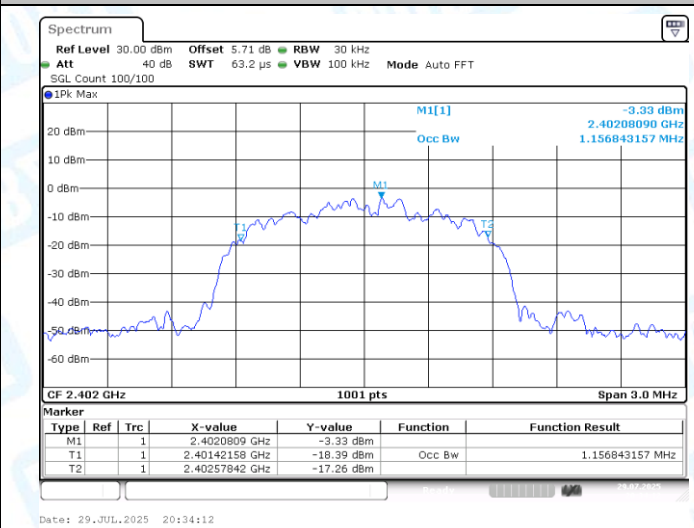
DH5-Ant1-2402



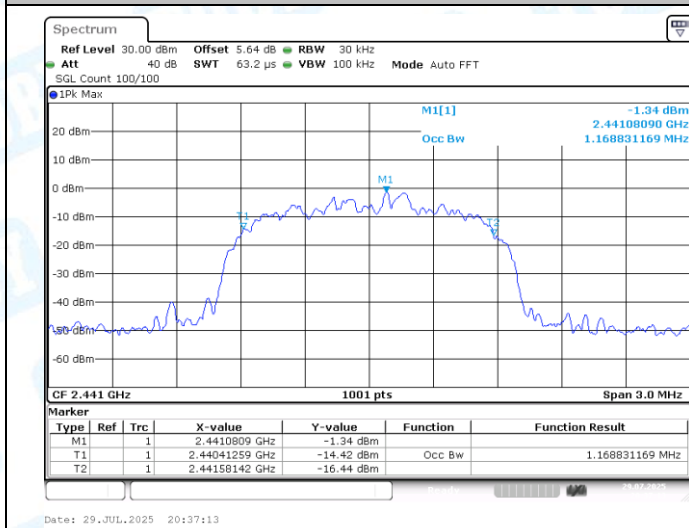
DH5-Ant1-2441



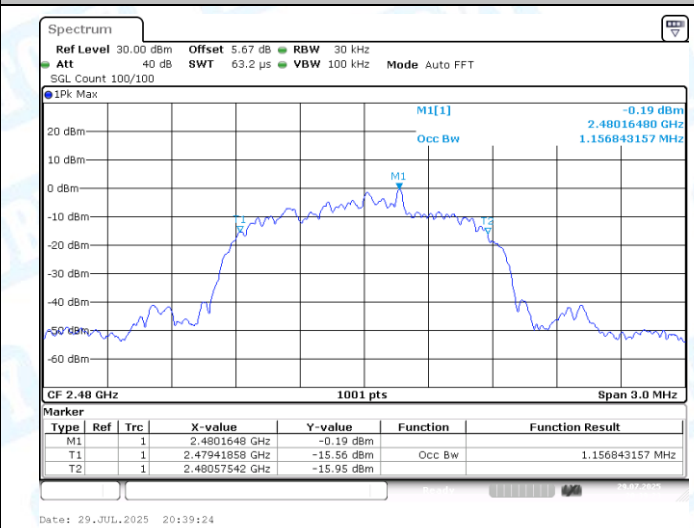
DH5-Ant1-2480



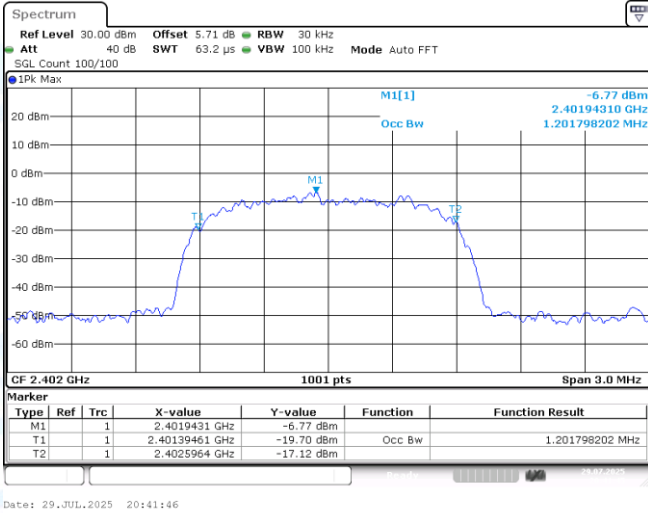
2DH5-Ant1-2402



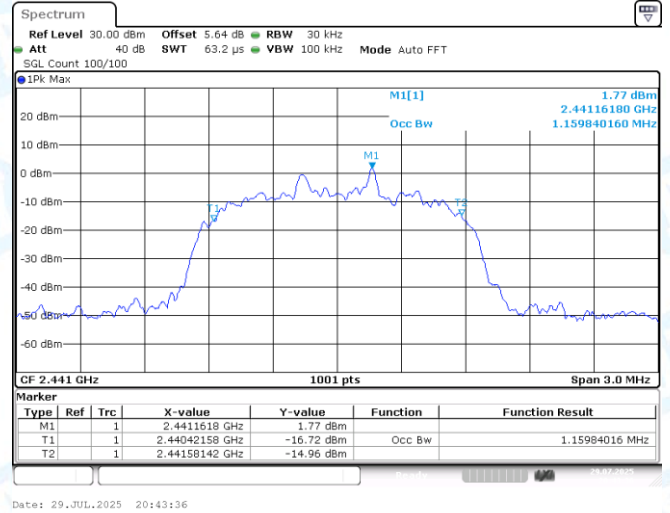
2DH5-Ant1-2441



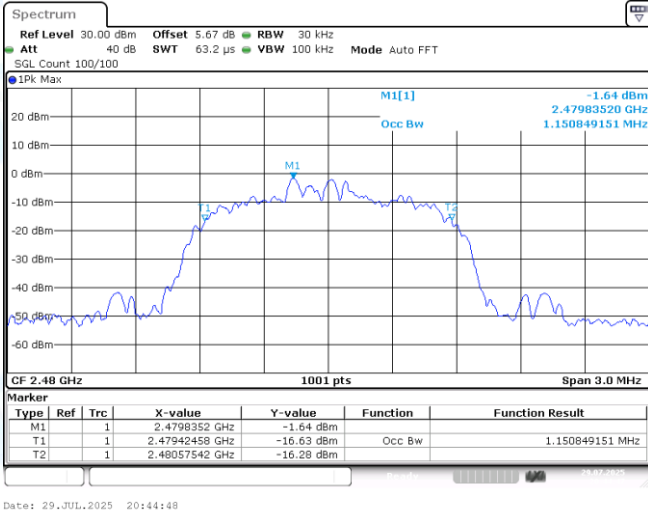
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



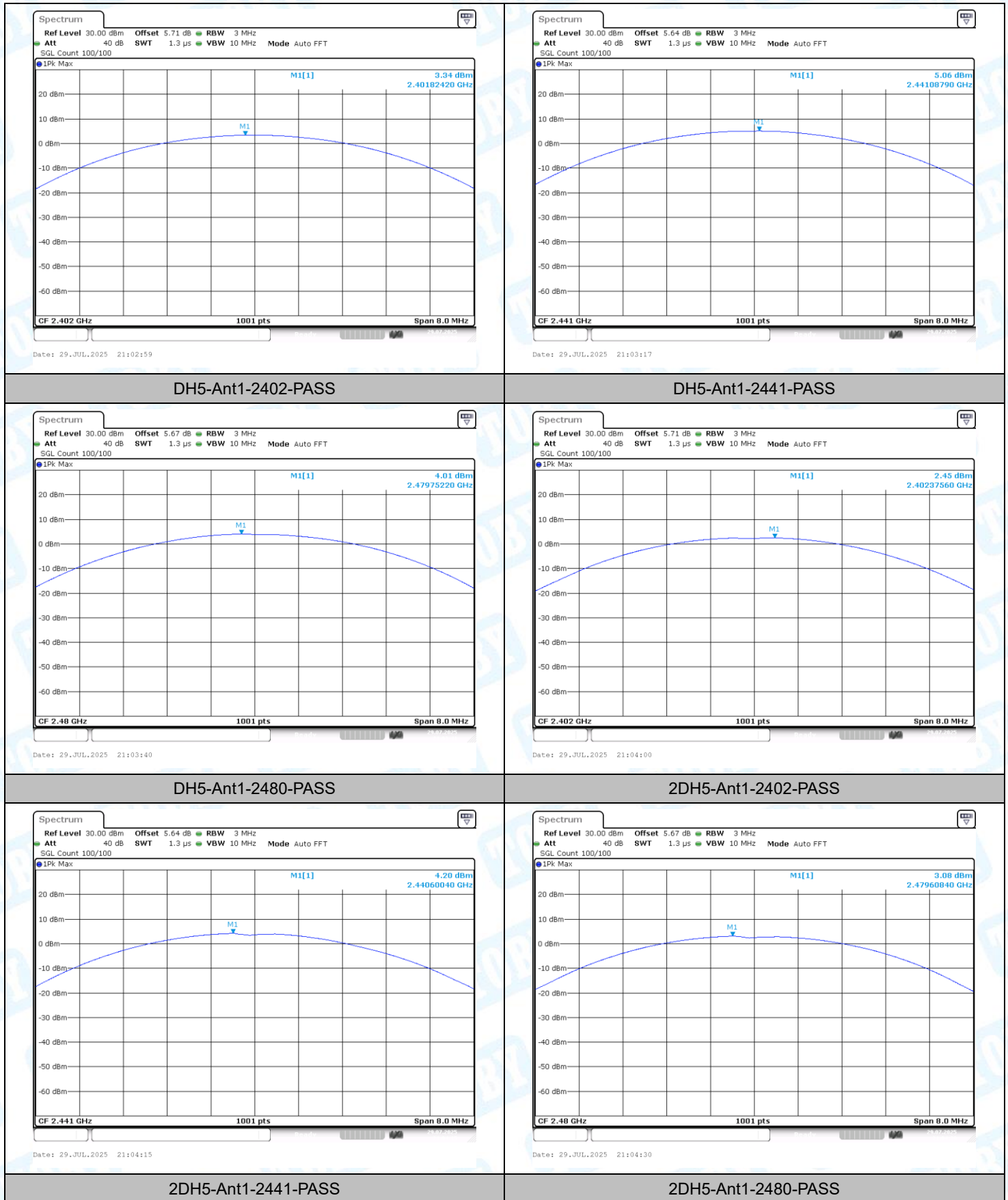
3DH5-Ant1-2480

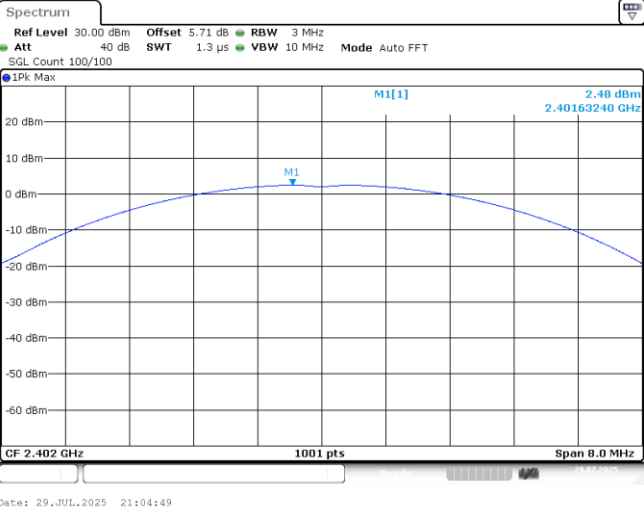
3: Maximum conducted output power

3.1 Test Result Peak

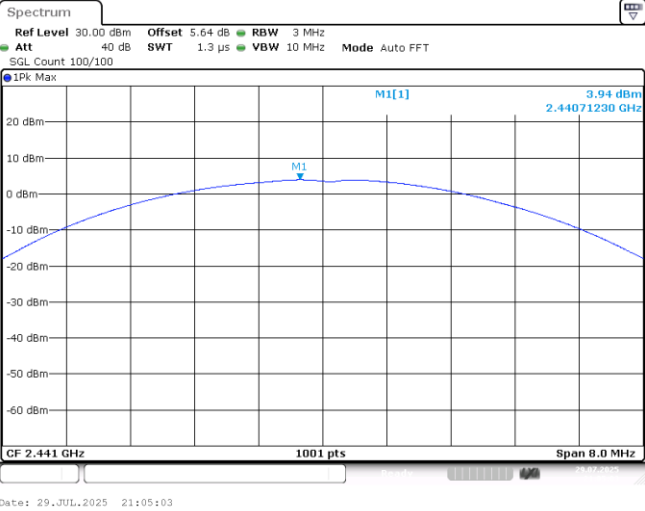
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.34	≤30	PASS
DH5	Ant1	2441	5.06	≤30	PASS
DH5	Ant1	2480	4.01	≤30	PASS
2DH5	Ant1	2402	2.45	≤30	PASS
2DH5	Ant1	2441	4.20	≤30	PASS
2DH5	Ant1	2480	3.08	≤30	PASS
3DH5	Ant1	2402	2.48	≤30	PASS
3DH5	Ant1	2441	3.94	≤30	PASS
3DH5	Ant1	2480	3.00	≤30	PASS

3.2 Test Graphs

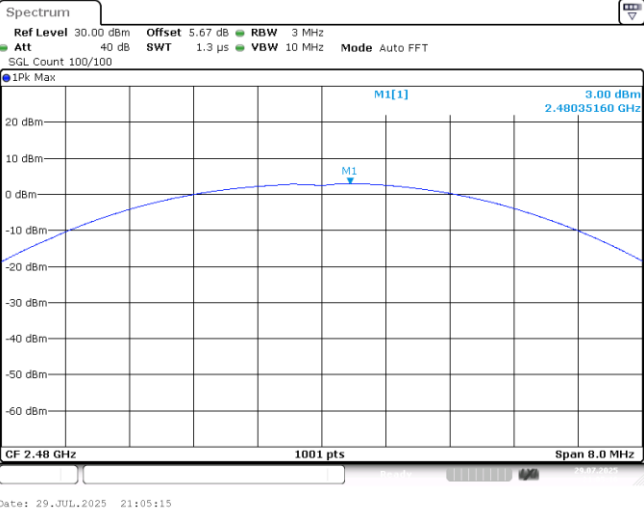




3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



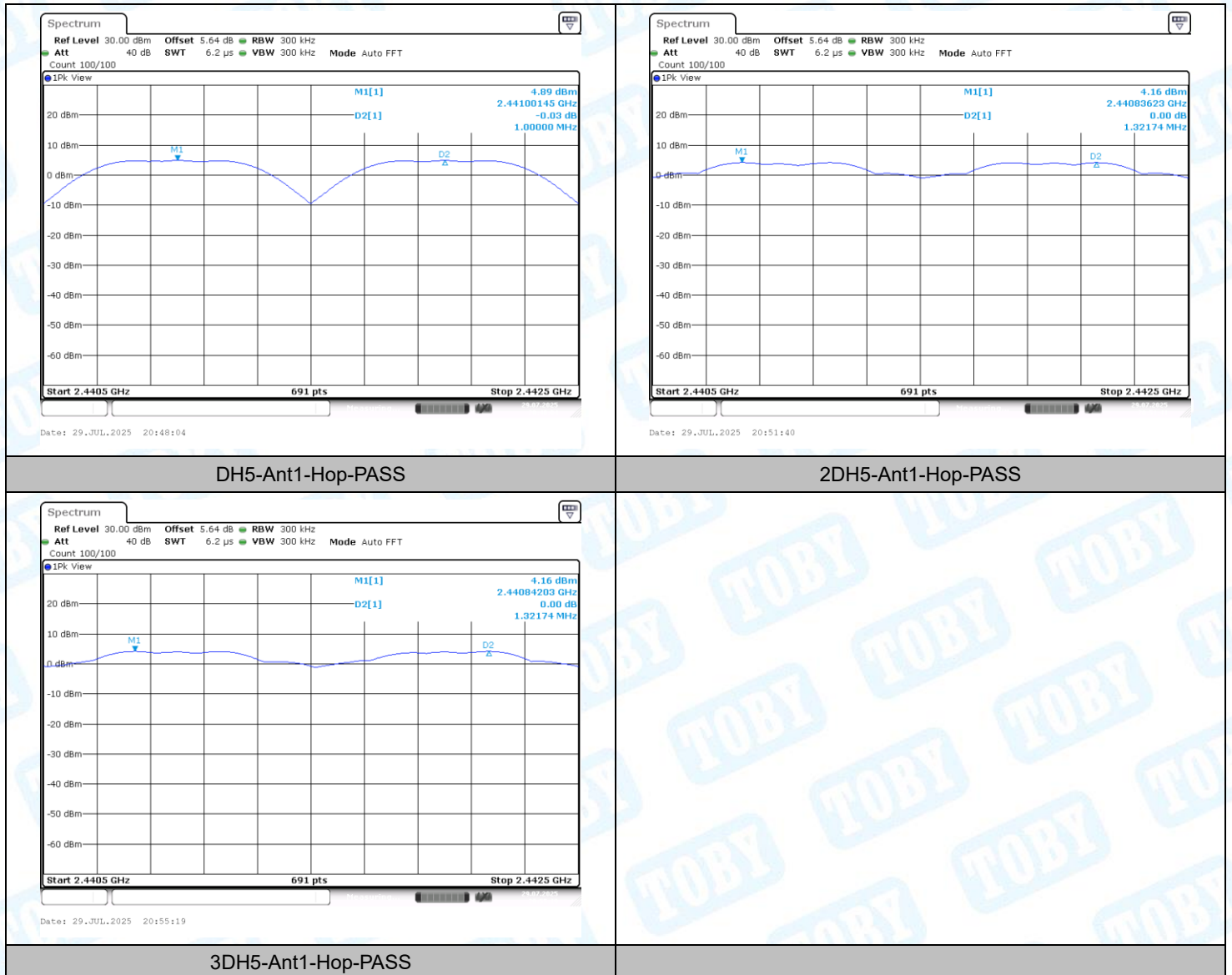
3DH5-Ant1-2480-PASS

4: Carrier frequency separation

4.1 Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥0.860	PASS
2DH5	Ant1	Hop	1.322	≥1.300	PASS
3DH5	Ant1	Hop	1.322	≥1.300	PASS

4.2 Test Graphs

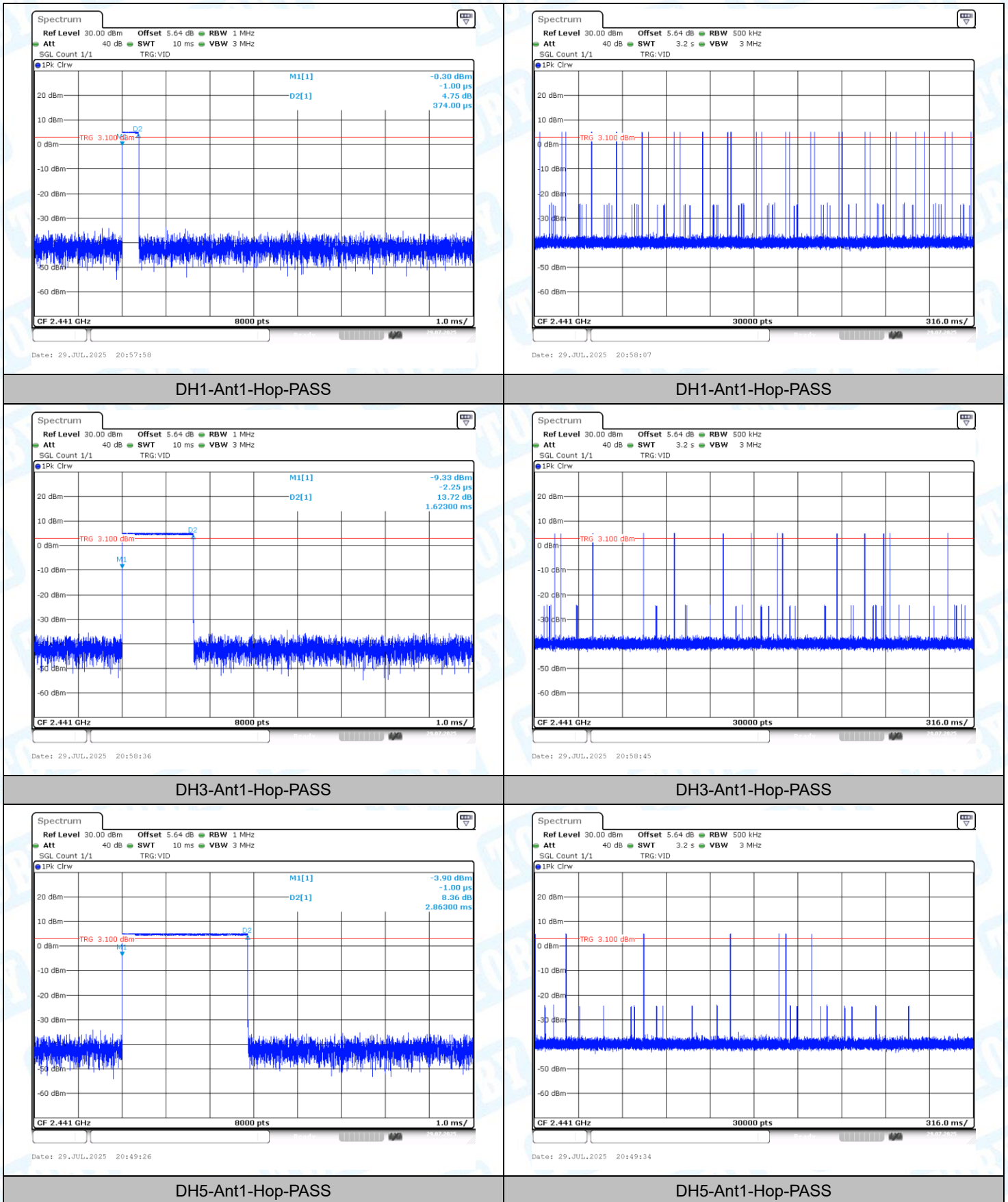


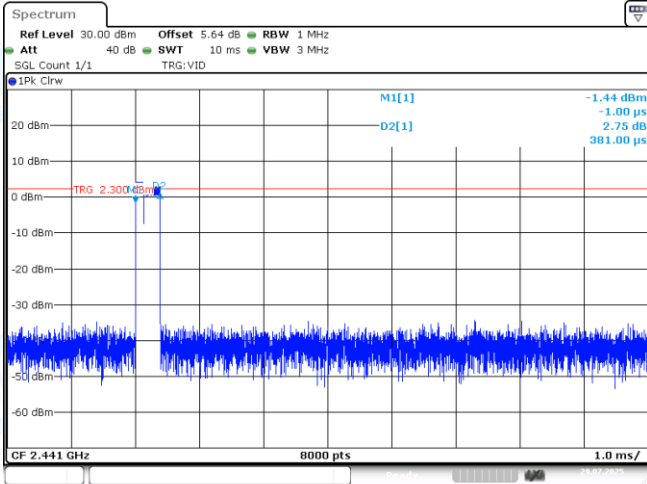
5: Time of occupancy

5.1 Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	330	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.623	150	0.243	≤0.4	PASS
DH5	Ant1	Hop	2.863	70	0.2	≤0.4	PASS
2DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
2DH5	Ant1	Hop	2.867	120	0.344	≤0.4	PASS
3DH1	Ant1	Hop	0.383	330	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.625	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.868	70	0.201	≤0.4	PASS

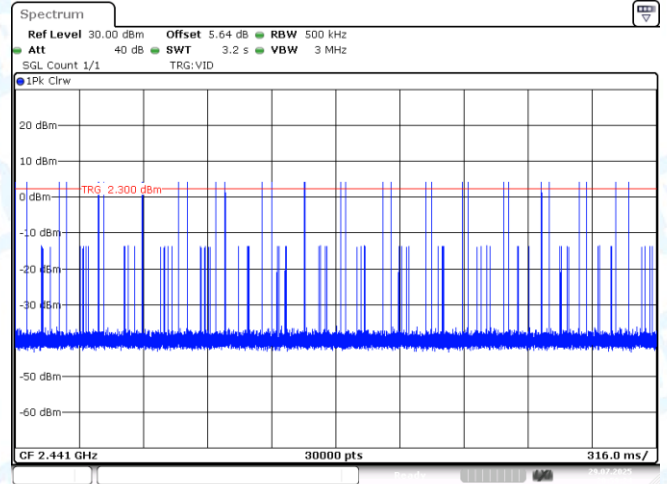
5.2 Test Graphs





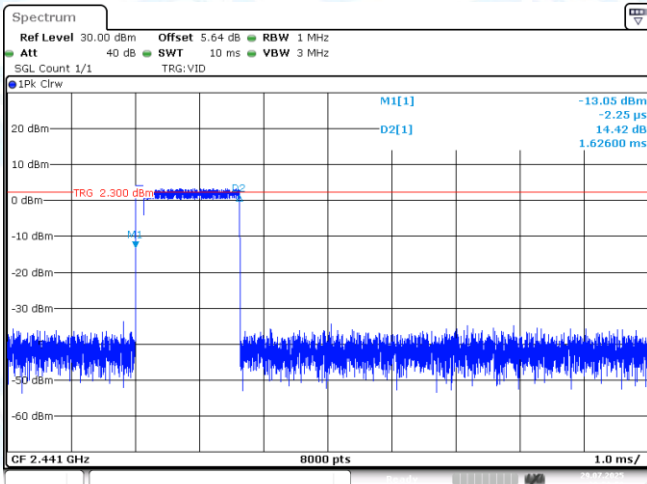
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2DH1-Ant1-Hop-PASS



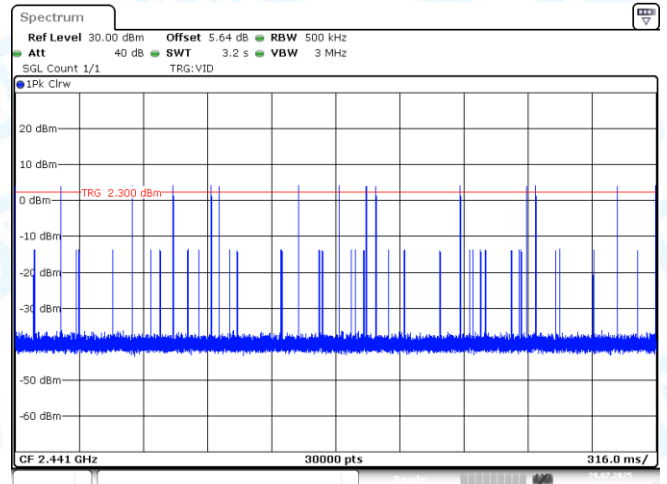
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2DH1-Ant1-Hop-PASS



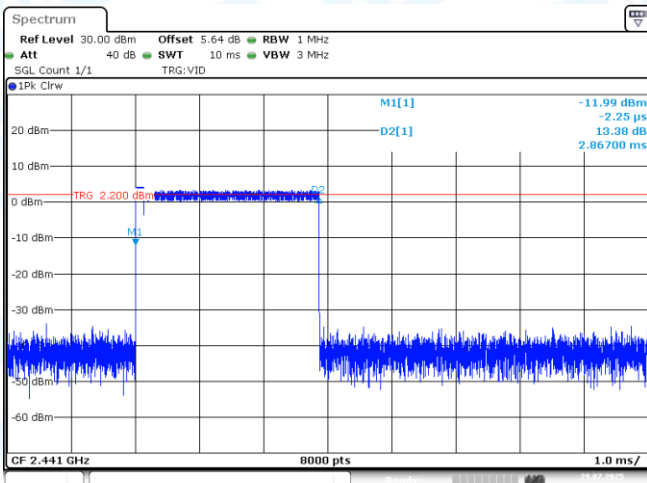
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2DH3-Ant1-Hop-PASS



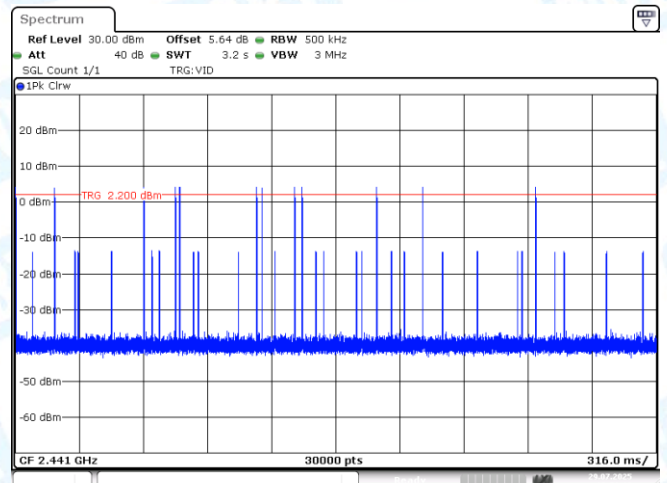
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2DH3-Ant1-Hop-PASS



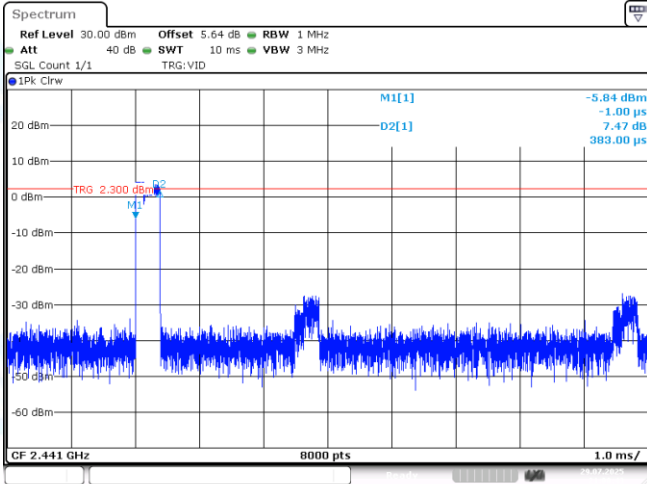
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2DH5-Ant1-Hop-PASS

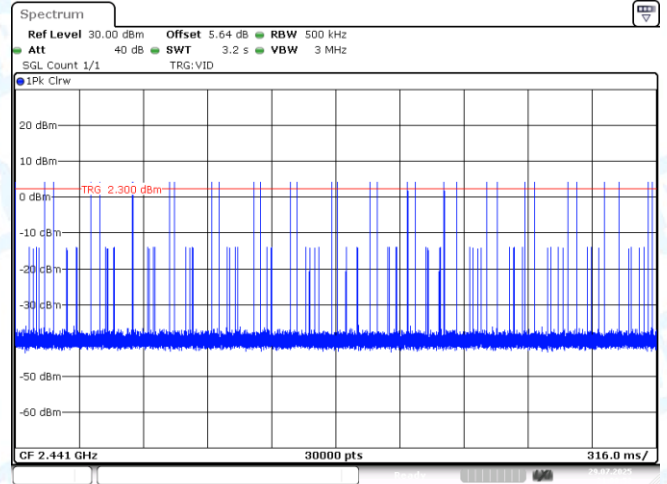


Date: 29.JUL.2025 20:53:10

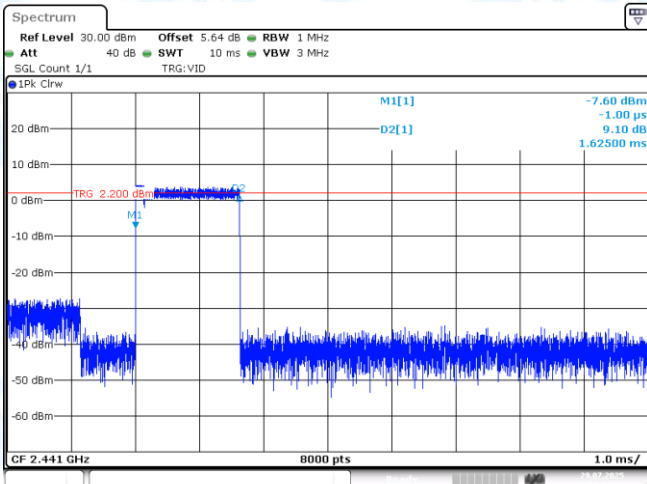
2DH5-Ant1-Hop-PASS



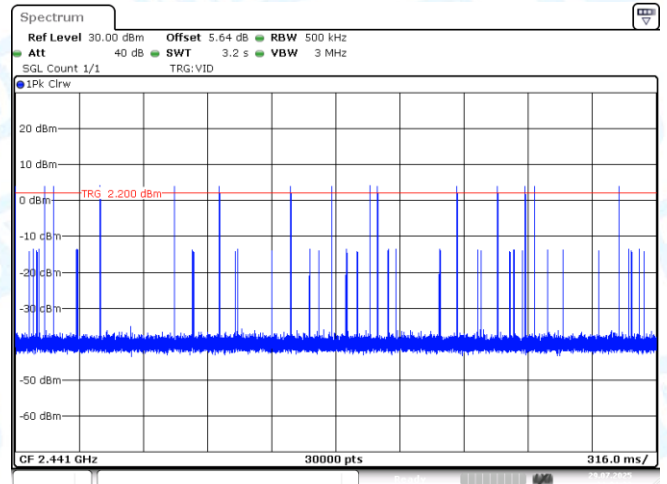
3DH1-Ant1-Hop-PASS



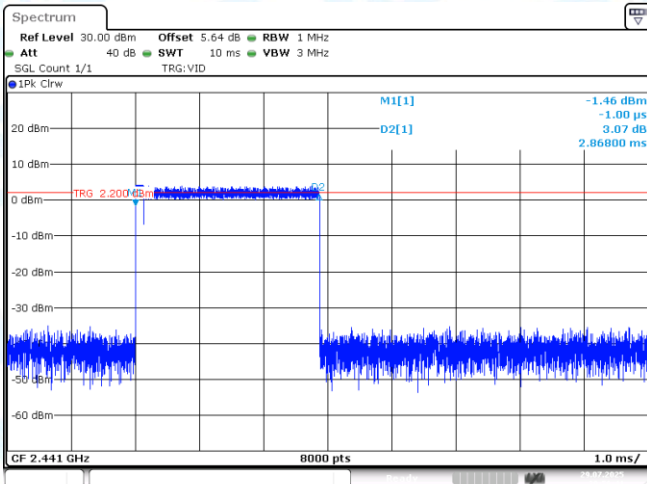
3DH1-Ant1-Hop-PASS



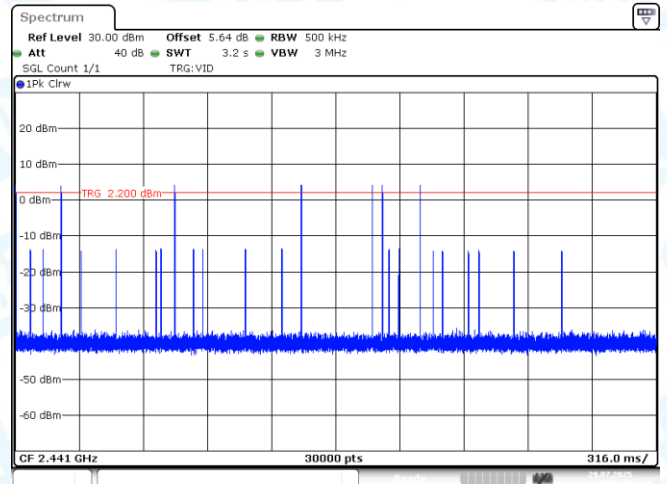
3DH3-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



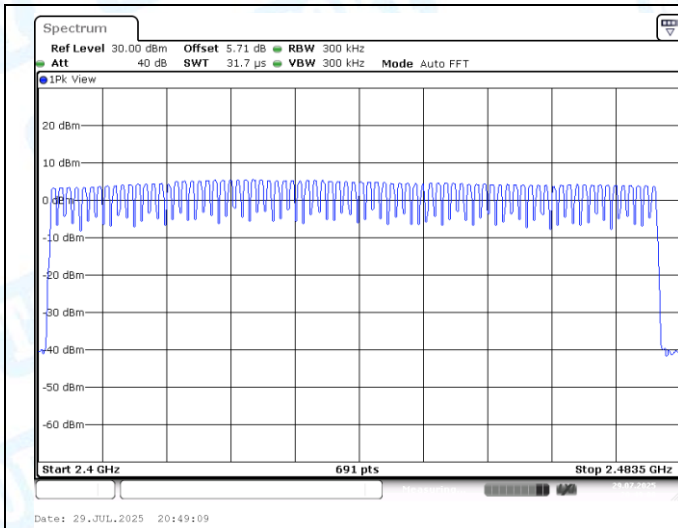
3DH5-Ant1-Hop-PASS

6: Number of hopping channels

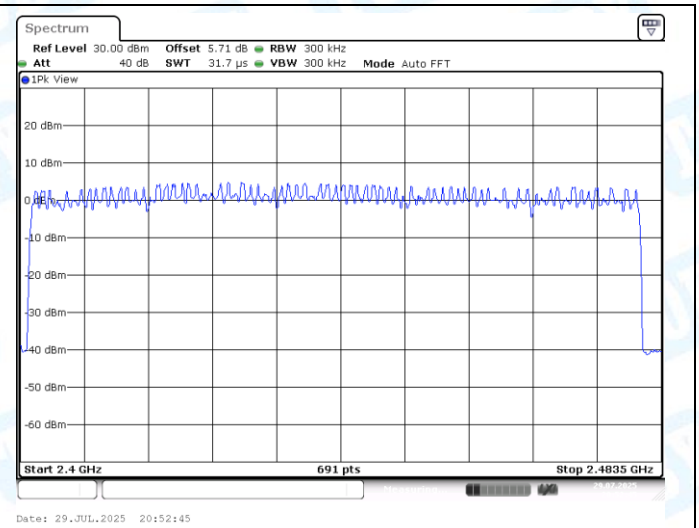
6.1 Test Result

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

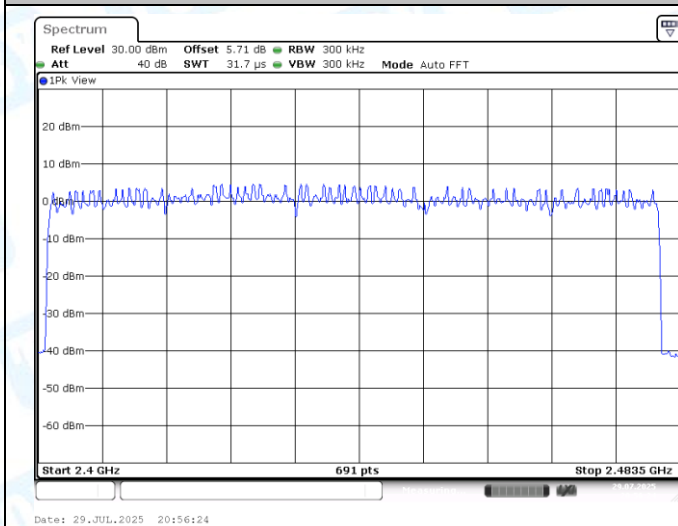
6.2 Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



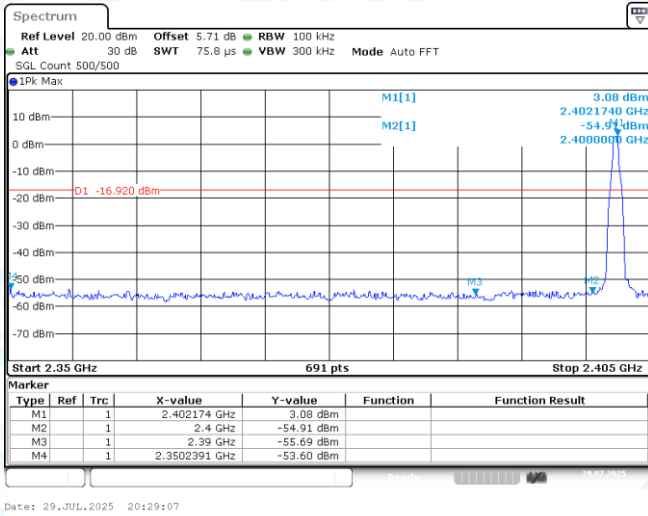
3DH5-Ant1-Hop-PASS

7: Band edge measurements

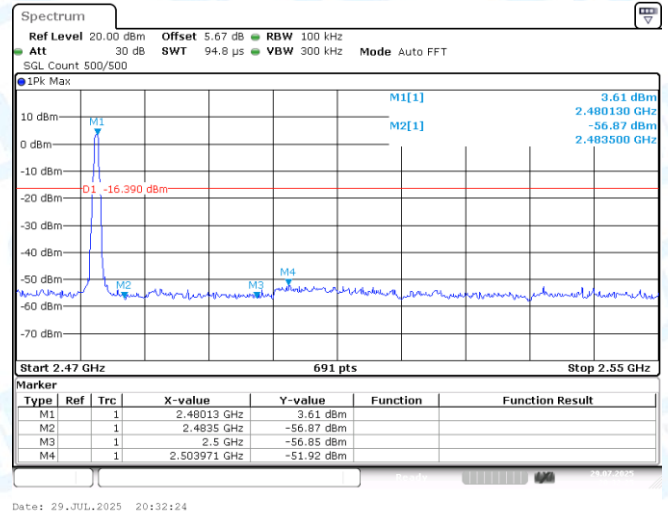
7.1 Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.08	-53.6	≤-16.92	PASS
DH5	Ant1	High	2480	3.61	-51.92	≤-16.39	PASS
DH5	Ant1	Low	Hop_2402	2.79	-53.21	≤-17.21	PASS
DH5	Ant1	High	Hop_2480	3.54	-51.56	≤-16.46	PASS
2DH5	Ant1	Low	2402	2.06	-52.36	≤-17.94	PASS
2DH5	Ant1	High	2480	2.90	-51.74	≤-17.1	PASS
2DH5	Ant1	Low	Hop_2402	-4.80	-53.47	≤-24.8	PASS
2DH5	Ant1	High	Hop_2480	2.68	-51.9	≤-17.32	PASS
3DH5	Ant1	Low	2402	2.48	-52.72	≤-17.52	PASS
3DH5	Ant1	High	2480	3.02	-51.86	≤-16.98	PASS
3DH5	Ant1	Low	Hop_2402	-1.30	-53.05	≤-21.3	PASS
3DH5	Ant1	High	Hop_2480	-2.25	-51.92	≤-22.25	PASS

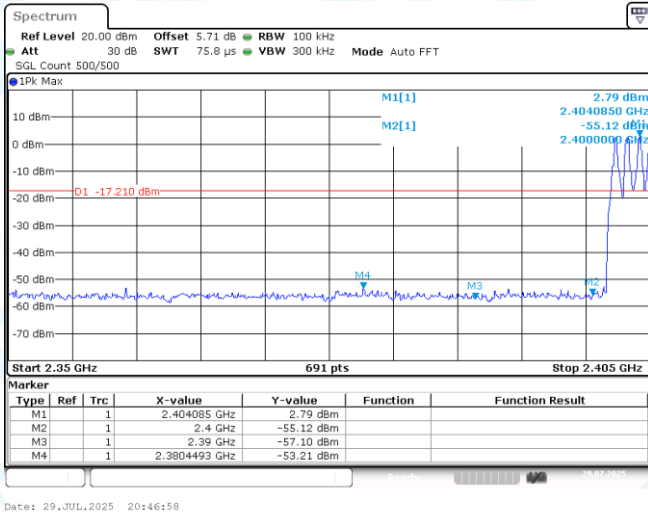
7.2 Test Graphs



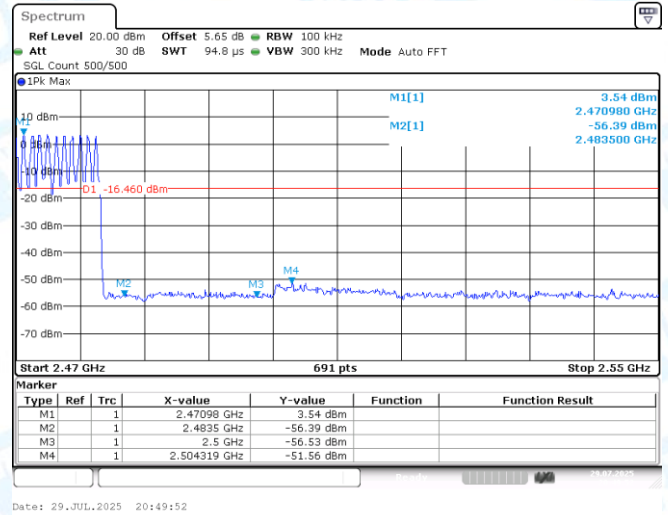
DH5-Ant1-2402-PASS



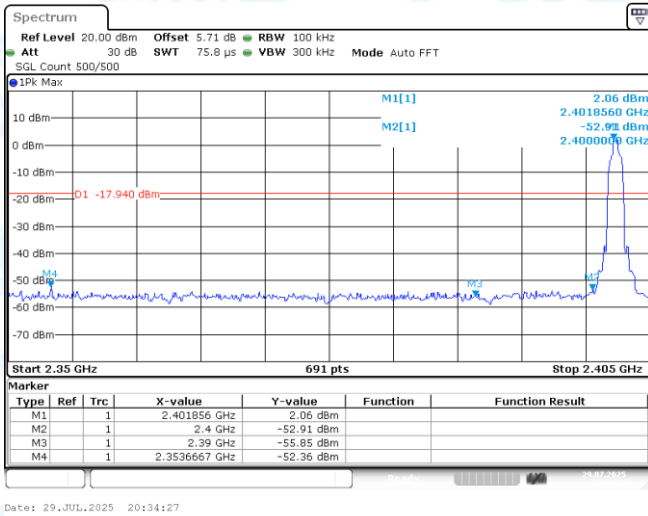
DH5-Ant1-2480-PASS



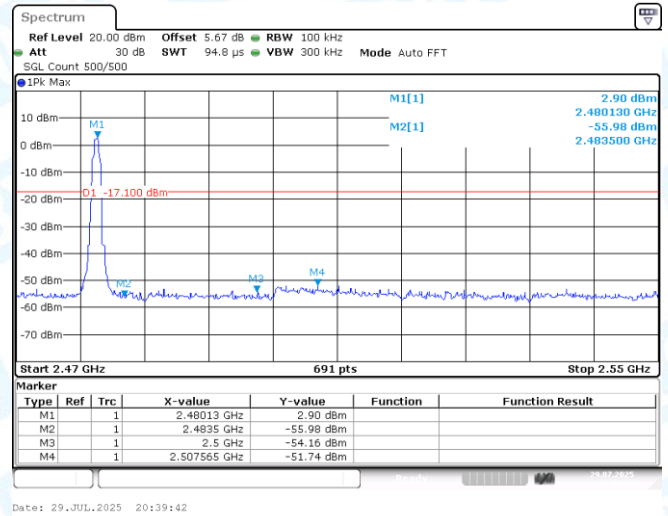
DH5-Ant1-Hop_2402-PASS



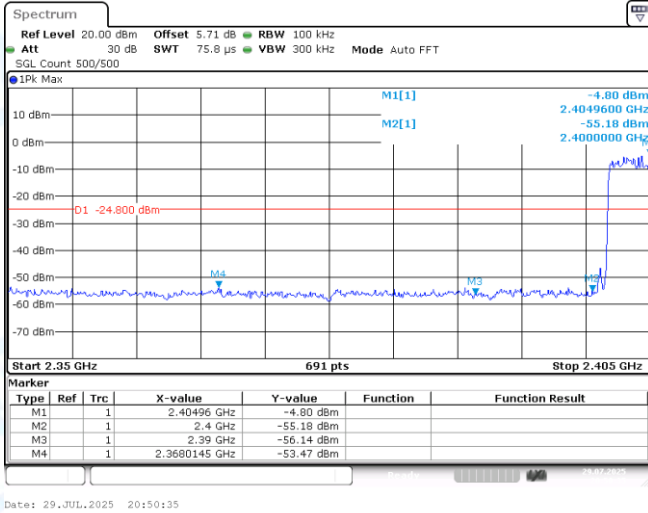
DH5-Ant1-Hop_2480-PASS



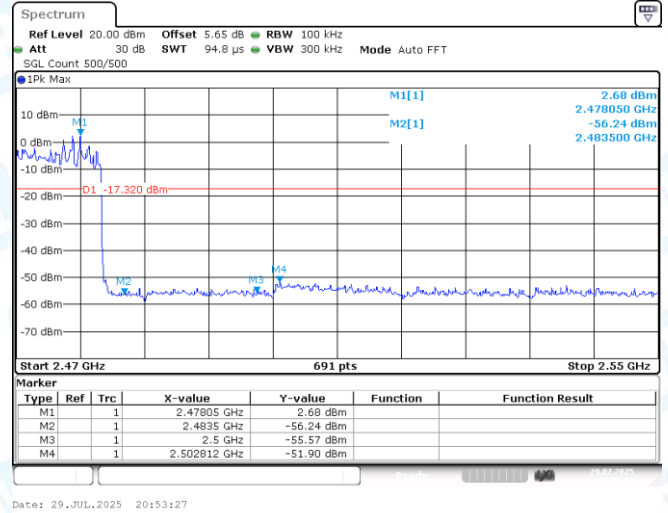
2DH5-Ant1-2402-PASS



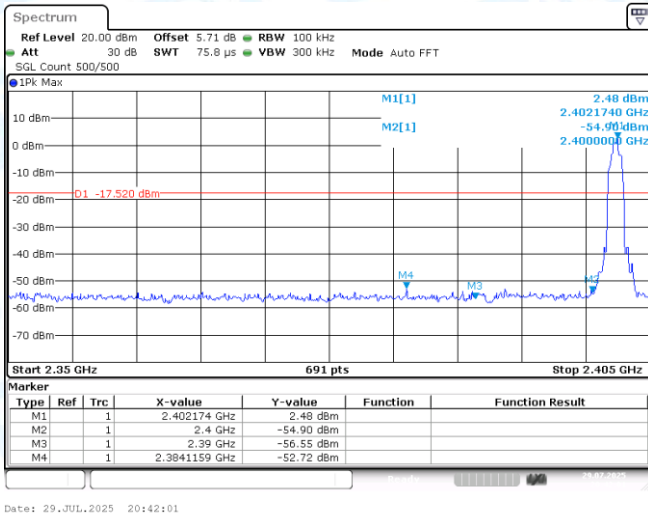
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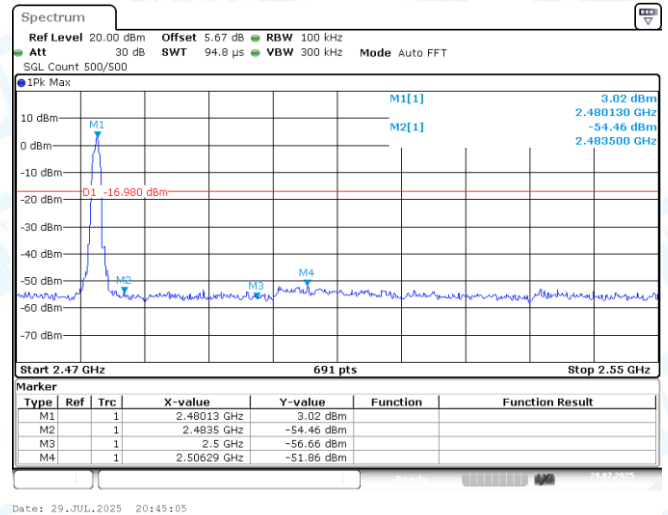
2DH5-Ant1-Hop_2402-PASS



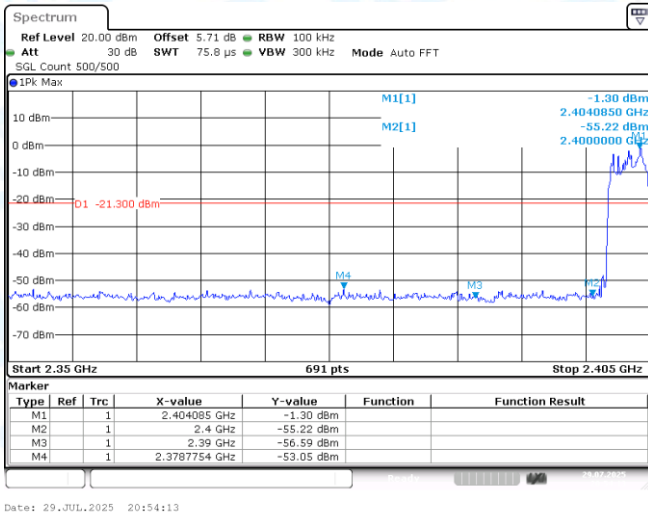
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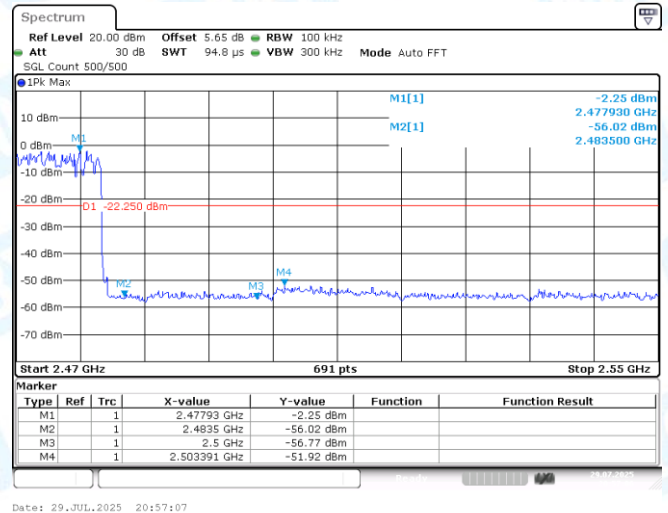
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



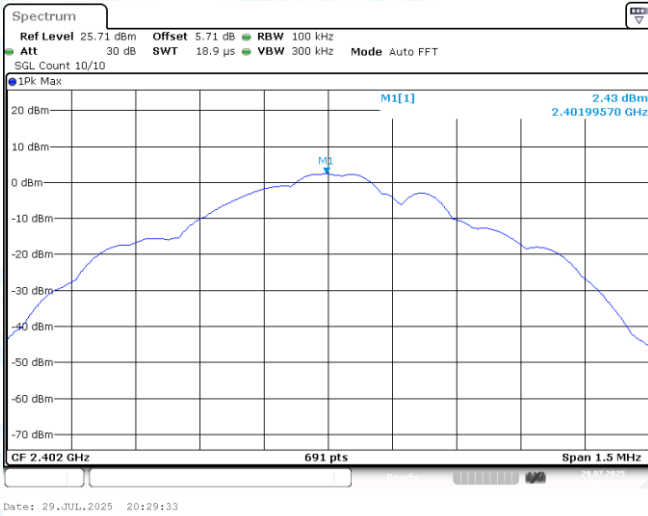
3DH5-Ant1-Hop_2480-PASS

8: Conducted Spurious Emission

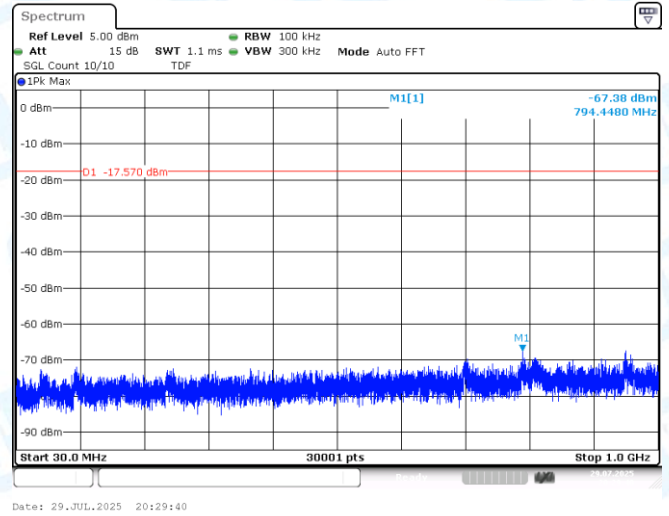
8.1 Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	2.43	2.43	---	PASS
DH5	Ant1	2402	30~1000	2.43	-67.38	≤-17.57	PASS
DH5	Ant1	2402	1000~26500	2.43	-47.23	≤-17.57	PASS
DH5	Ant1	2441	0~Reference	3.83	3.83	---	PASS
DH5	Ant1	2441	30~1000	3.83	-67.85	≤-16.17	PASS
DH5	Ant1	2441	1000~26500	3.83	-47.12	≤-16.17	PASS
DH5	Ant1	2480	0~Reference	2.77	2.77	---	PASS
DH5	Ant1	2480	30~1000	2.77	-66.45	≤-17.23	PASS
DH5	Ant1	2480	1000~26500	2.77	-46.42	≤-17.23	PASS
2DH5	Ant1	2402	0~Reference	-1.10	-1.10	---	PASS
2DH5	Ant1	2402	30~1000	-1.10	-67.77	≤-21.1	PASS
2DH5	Ant1	2402	1000~26500	-1.10	-47.58	≤-21.1	PASS
2DH5	Ant1	2441	0~Reference	1.12	1.12	---	PASS
2DH5	Ant1	2441	30~1000	1.12	-68.12	≤-18.88	PASS
2DH5	Ant1	2441	1000~26500	1.12	-46.49	≤-18.88	PASS
2DH5	Ant1	2480	0~Reference	-4.46	-4.46	---	PASS
2DH5	Ant1	2480	30~1000	-4.46	-67.33	≤-24.46	PASS
2DH5	Ant1	2480	1000~26500	-4.46	-47.43	≤-24.46	PASS
3DH5	Ant1	2402	0~Reference	-2.05	-2.05	---	PASS
3DH5	Ant1	2402	30~1000	-2.05	-67.71	≤-22.05	PASS
3DH5	Ant1	2402	1000~26500	-2.05	-47.04	≤-22.05	PASS
3DH5	Ant1	2441	0~Reference	-1.84	-1.84	---	PASS
3DH5	Ant1	2441	30~1000	-1.84	-66.81	≤-21.84	PASS
3DH5	Ant1	2441	1000~26500	-1.84	-46.82	≤-21.84	PASS
3DH5	Ant1	2480	0~Reference	-2.24	-2.24	---	PASS
3DH5	Ant1	2480	30~1000	-2.24	-67.86	≤-22.24	PASS
3DH5	Ant1	2480	1000~26500	-2.24	-47.26	≤-22.24	PASS

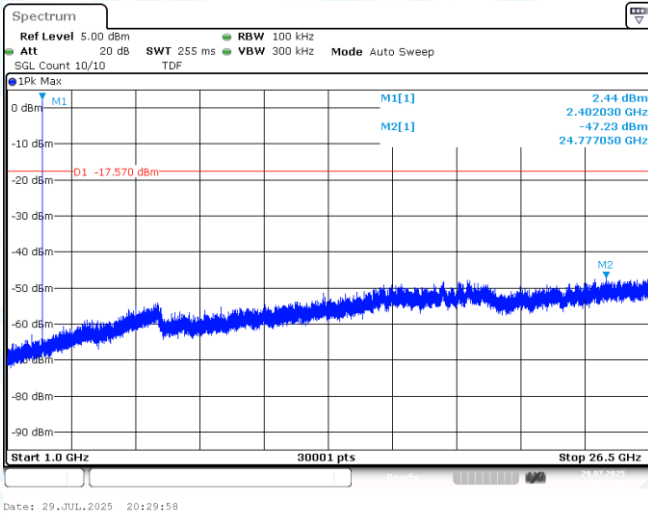
8.2 Test Graphs



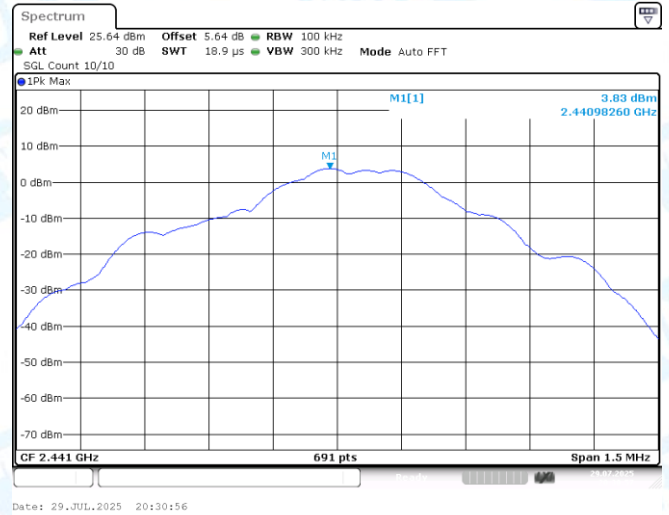
DH5-Ant1-2402-0~Reference-PASS



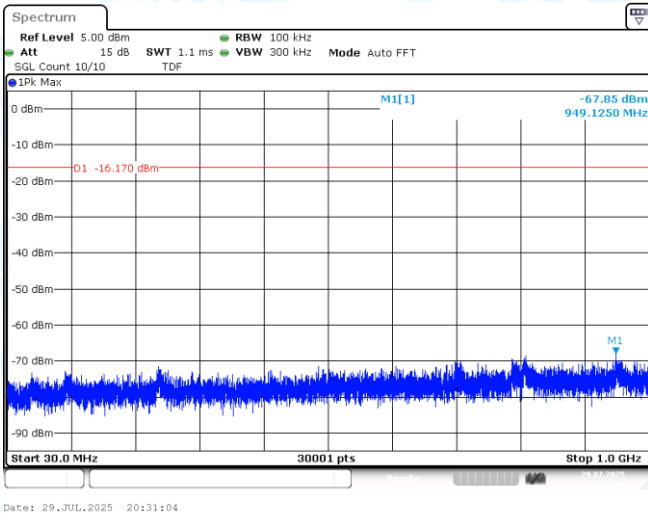
DH5-Ant1-2402-30~1000-PASS



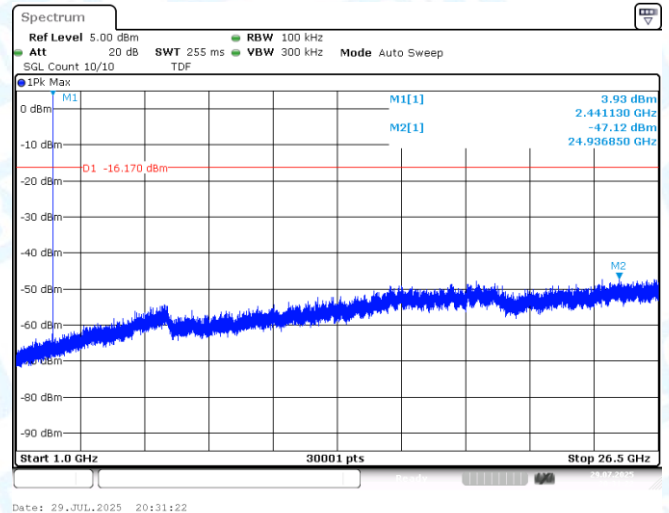
DH5-Ant1-2402-1000~26500-PASS



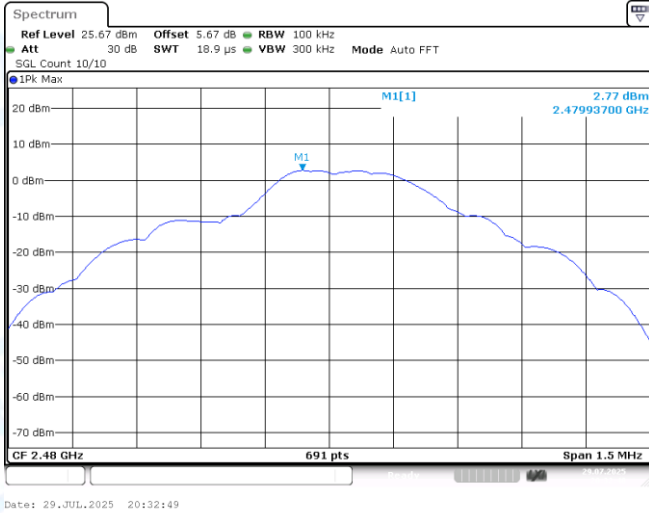
DH5-Ant1-2441-0~Reference-PASS



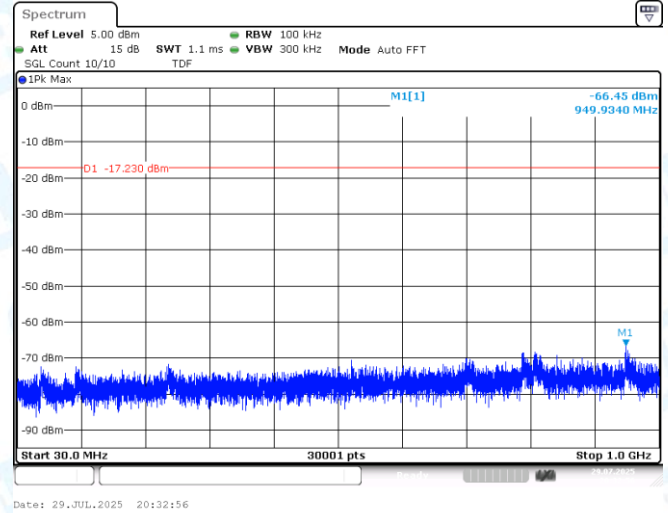
DH5-Ant1-2441-30~1000-PASS



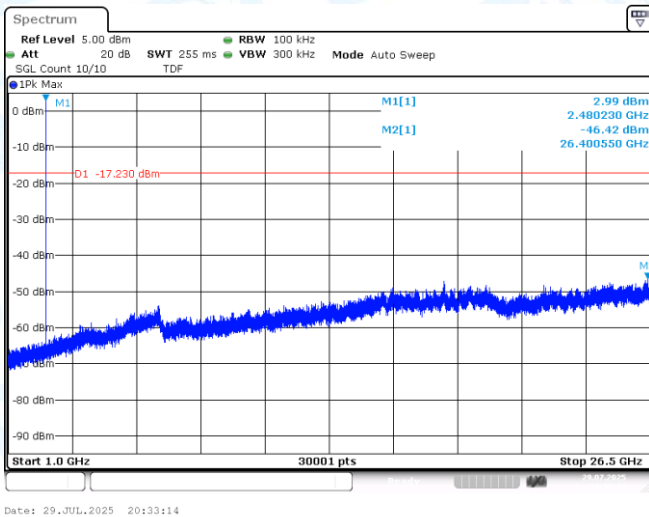
DH5-Ant1-2441-1000~26500-PASS



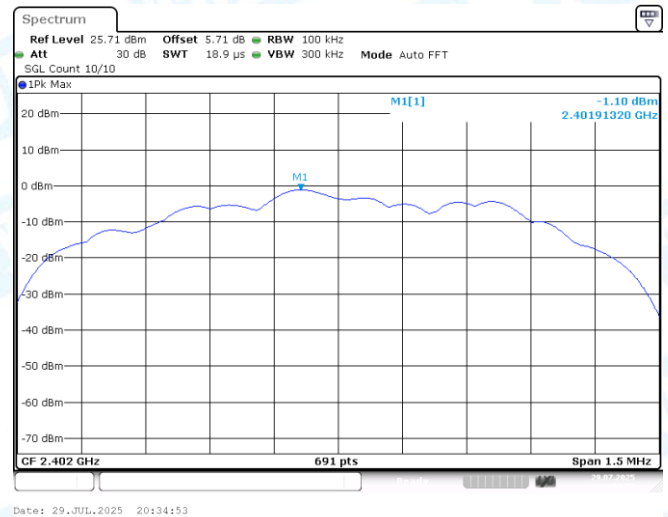
DH5-Ant1-2480-0~Reference-PASS



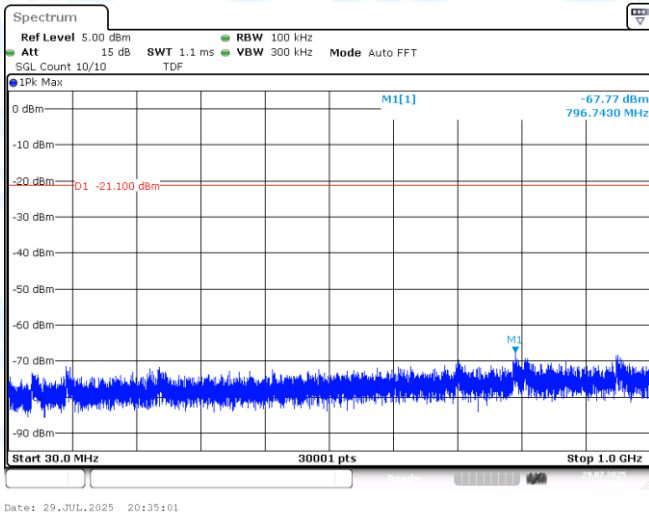
DH5-Ant1-2480-30~1000-PASS



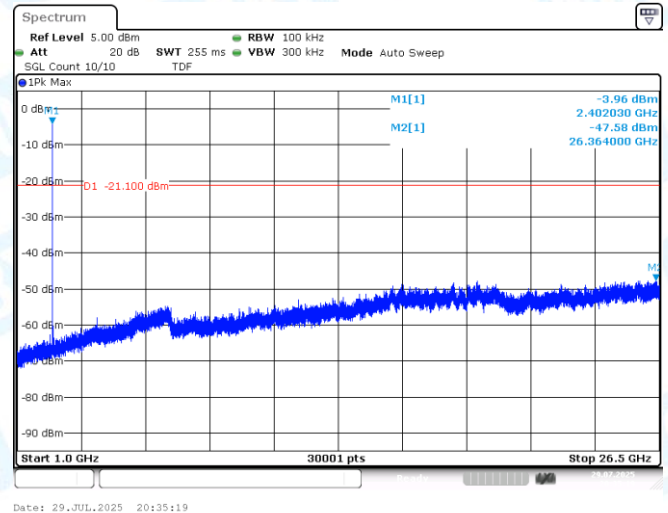
DH5-Ant1-2480-1000~26500-PASS



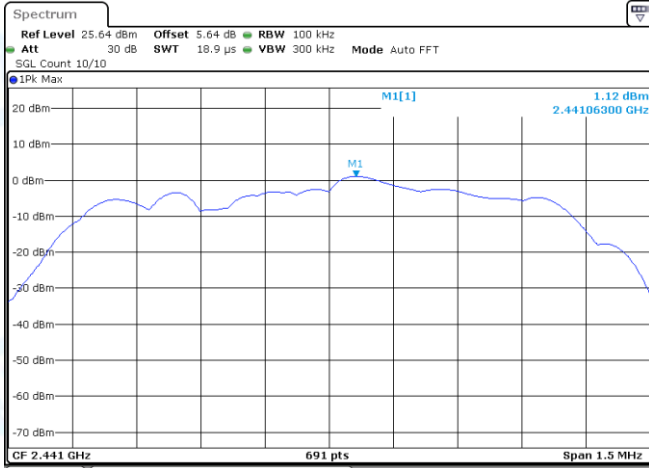
2DH5-Ant1-2402-0~Reference-PASS



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

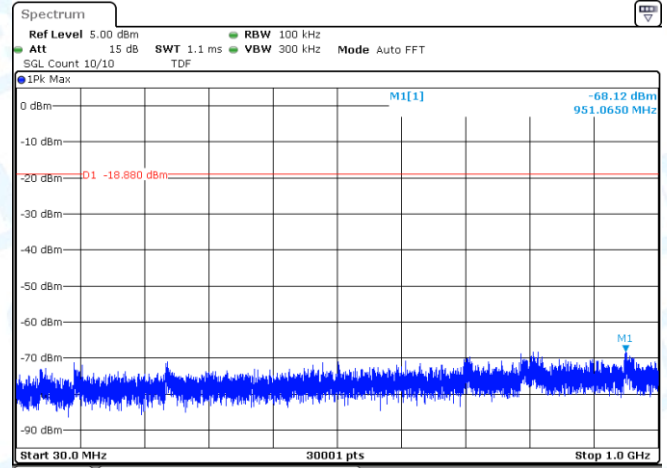


2DH5-Ant1-2402-1000~26500-PASS



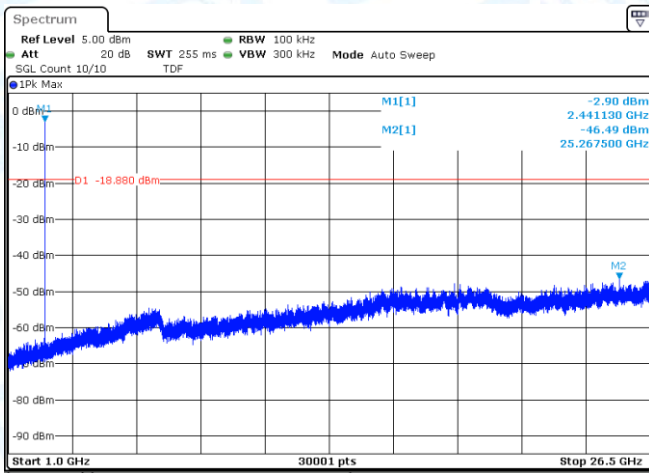
Date: 29.JUL.2025 20:37:17

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



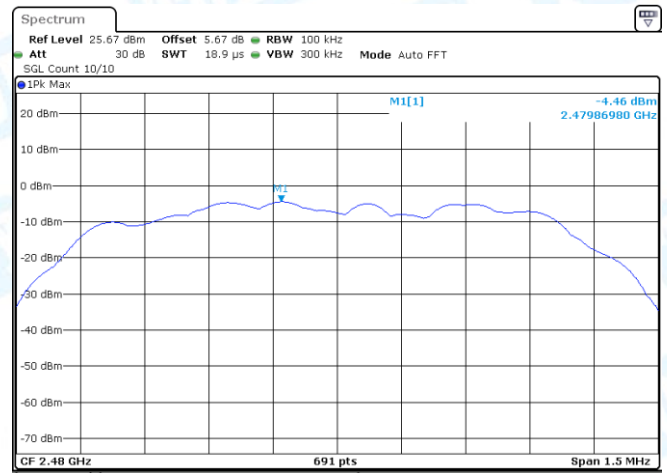
Date: 29.JUL.2025 20:37:25

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



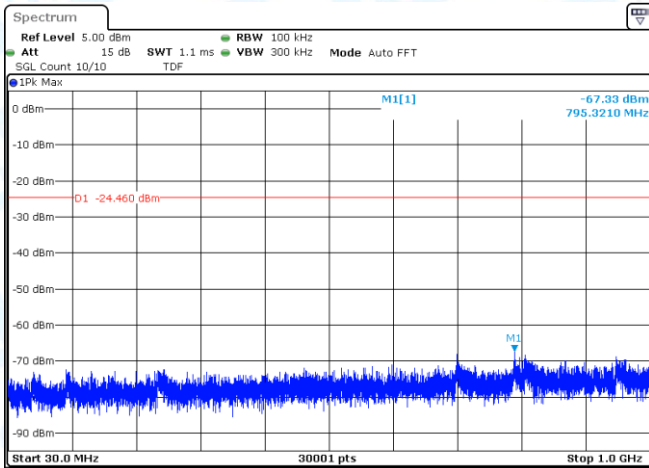
Date: 29.JUL.2025 20:37:43

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



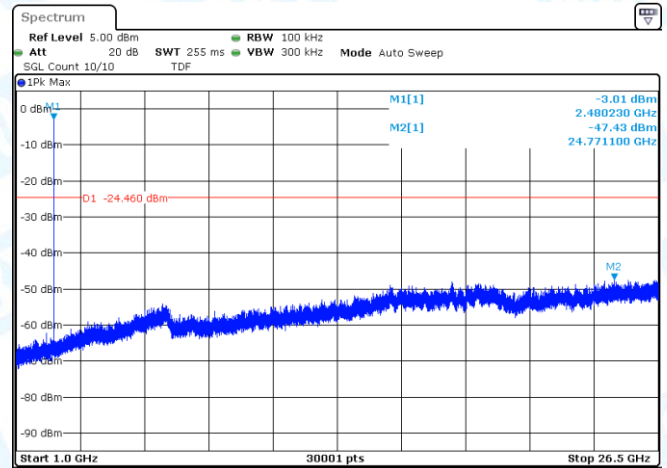
Date: 29.JUL.2025 20:40:06

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



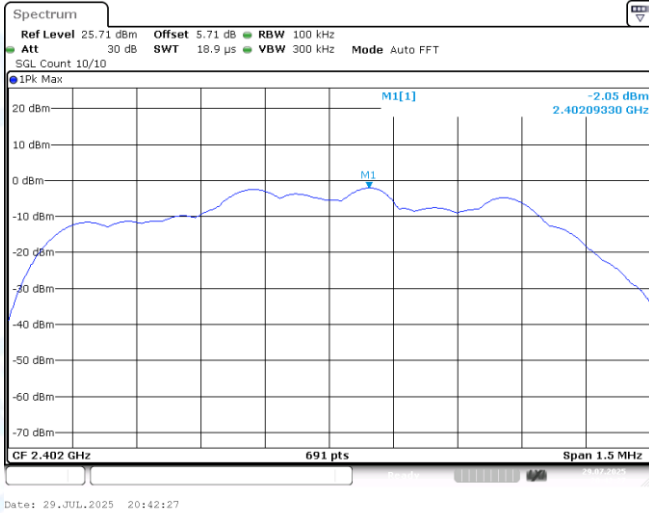
Date: 29.JUL.2025 20:40:14

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

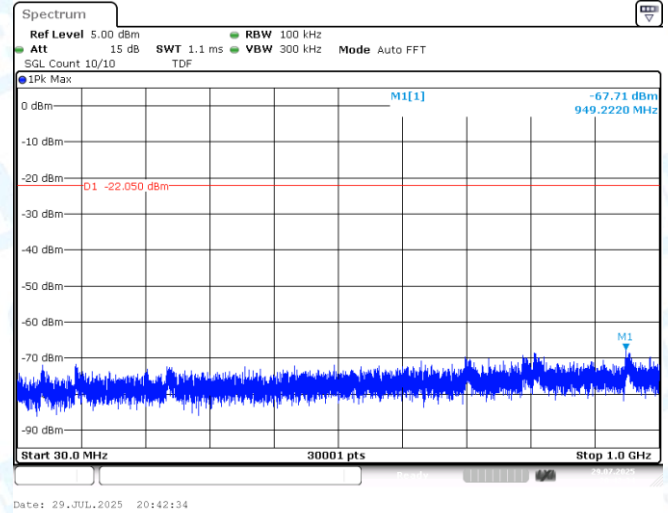


Date: 29.JUL.2025 20:40:31

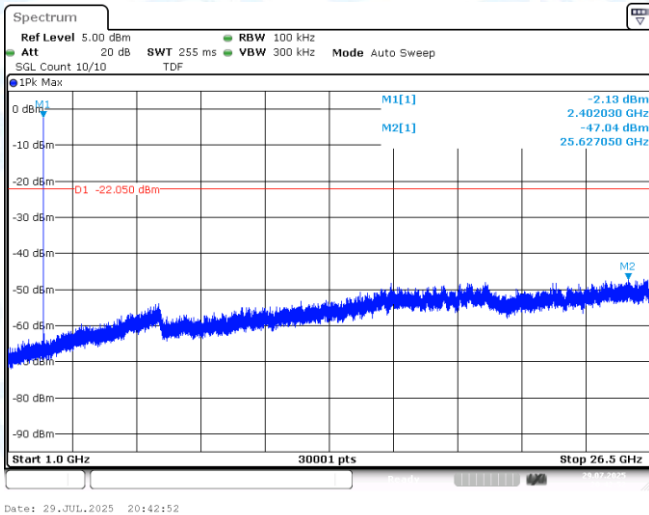
2DH5-Ant1-2480-1000~26500-PASS



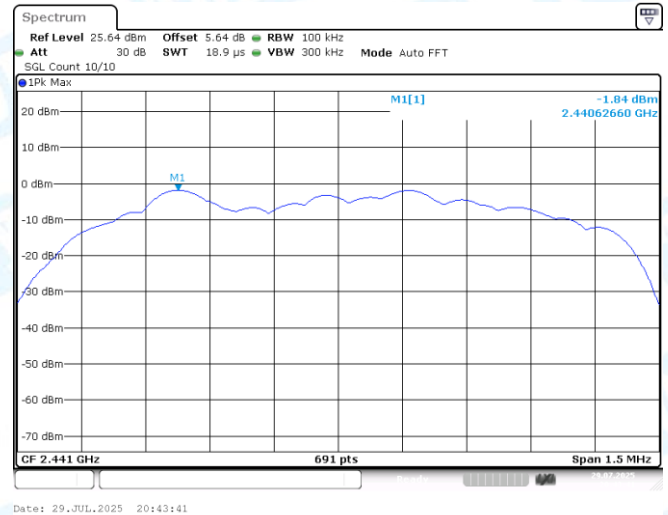
3DH5-Ant1-2402-0~Reference-PASS



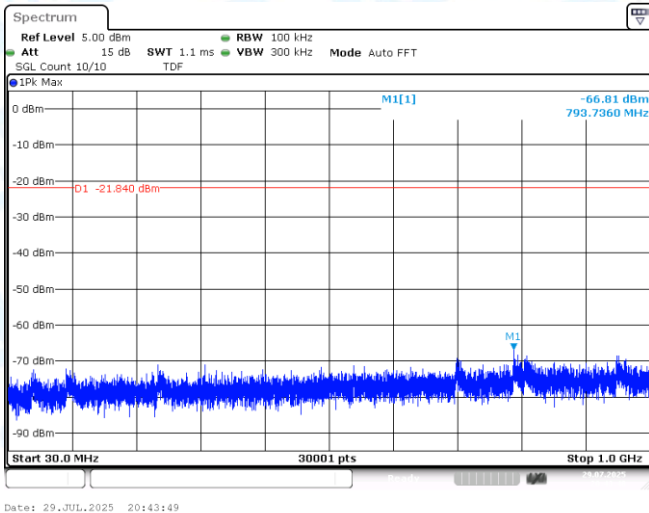
3DH5-Ant1-2402-30~1000-PASS



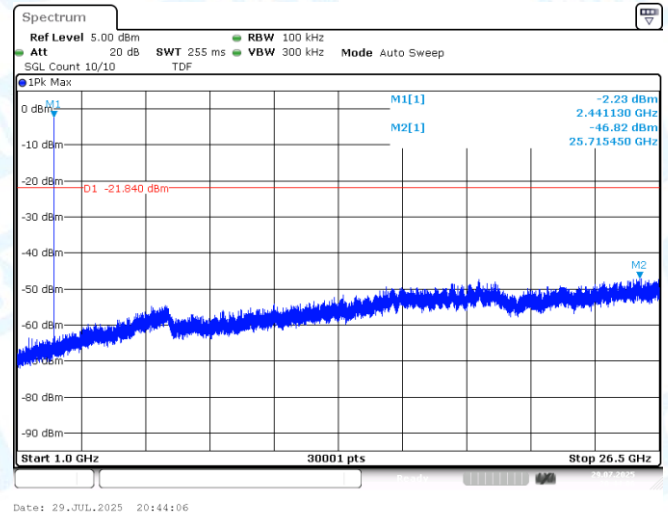
3DH5-Ant1-2402-1000~26500-PASS



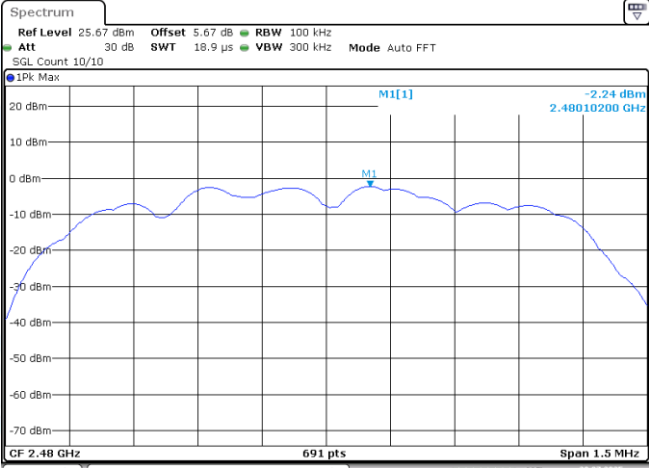
3DH5-Ant1-2441-0~Reference-PASS



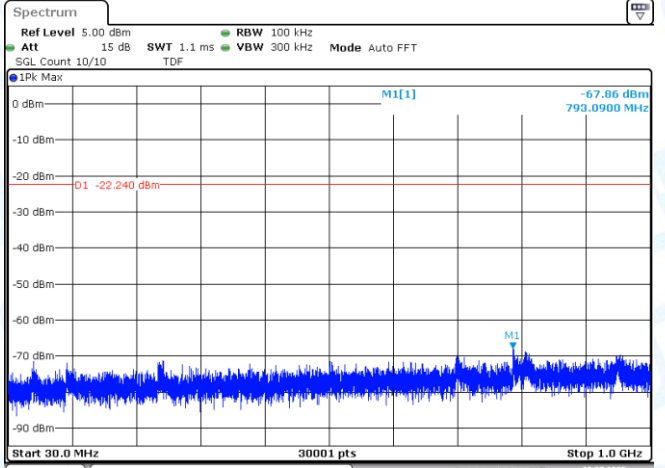
3DH5-Ant1-2441-30~1000-PASS



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



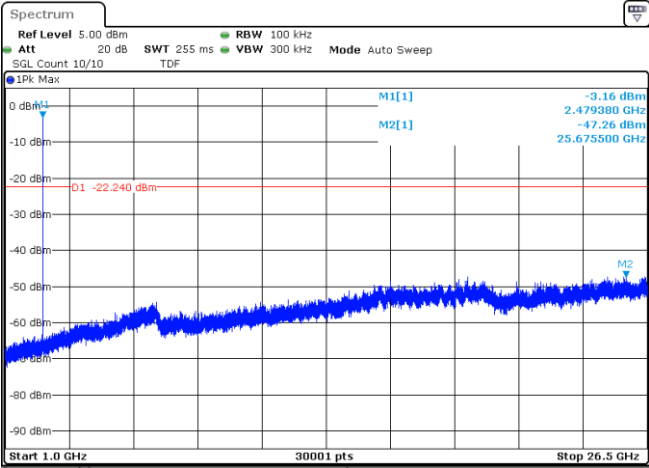
Date: 29.JUL.2025 20:45:29



Date: 29.JUL.2025 20:45:37

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

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



Date: 29.JUL.2025 20:45:54

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

9: Duty Cycle

9.1 Test Result

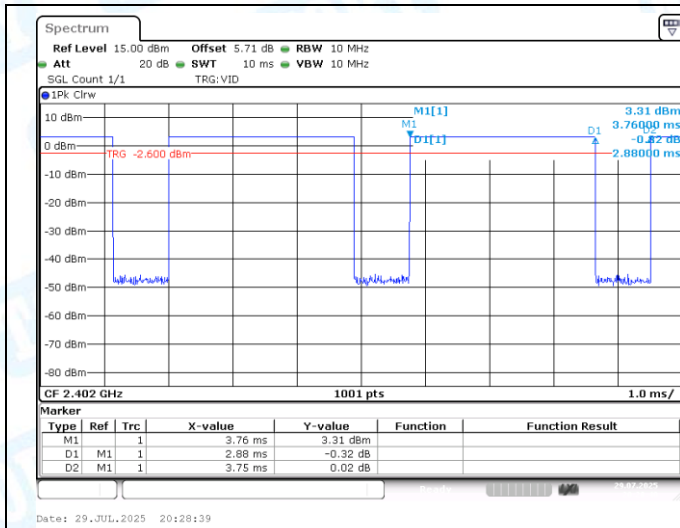
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
DH5	Ant1	2441	2.88	3.75	76.80	1.15	0.35
DH5	Ant1	2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
2DH5	Ant1	2441	2.89	3.75	77.07	1.13	0.35
2DH5	Ant1	2480	2.89	3.76	76.86	1.14	0.35
3DH5	Ant1	2402	2.89	3.76	76.86	1.14	0.35
3DH5	Ant1	2441	2.90	3.76	77.13	1.13	0.34
3DH5	Ant1	2480	2.89	3.75	77.07	1.13	0.35

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

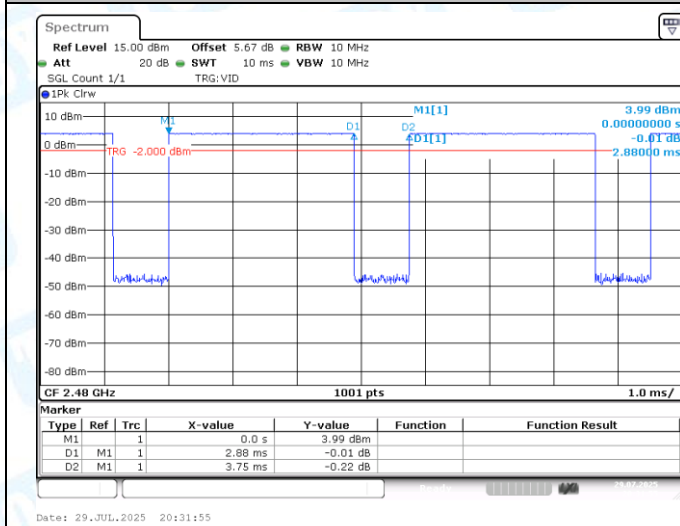
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

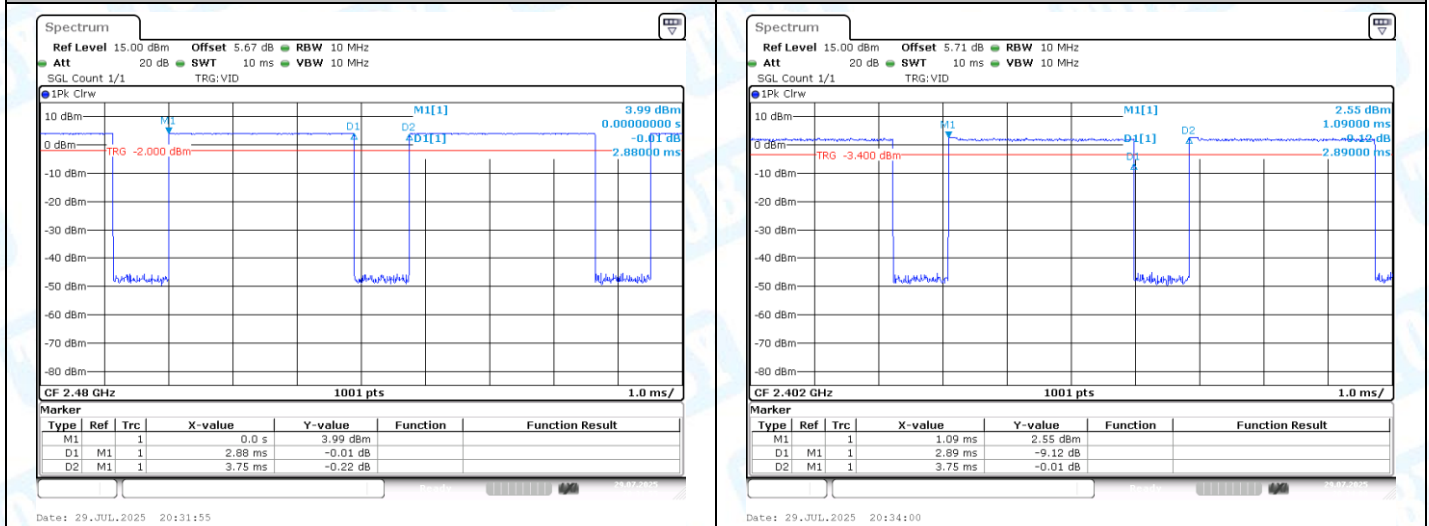
9.2 Test Graphs



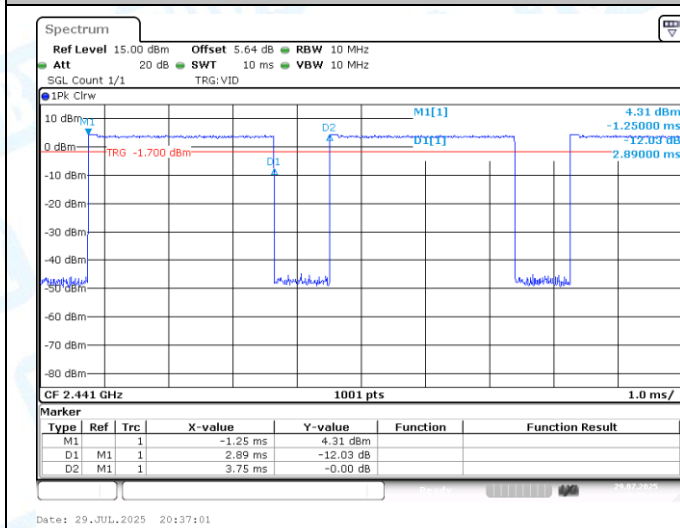
NTNV-DH5-Ant1-2402



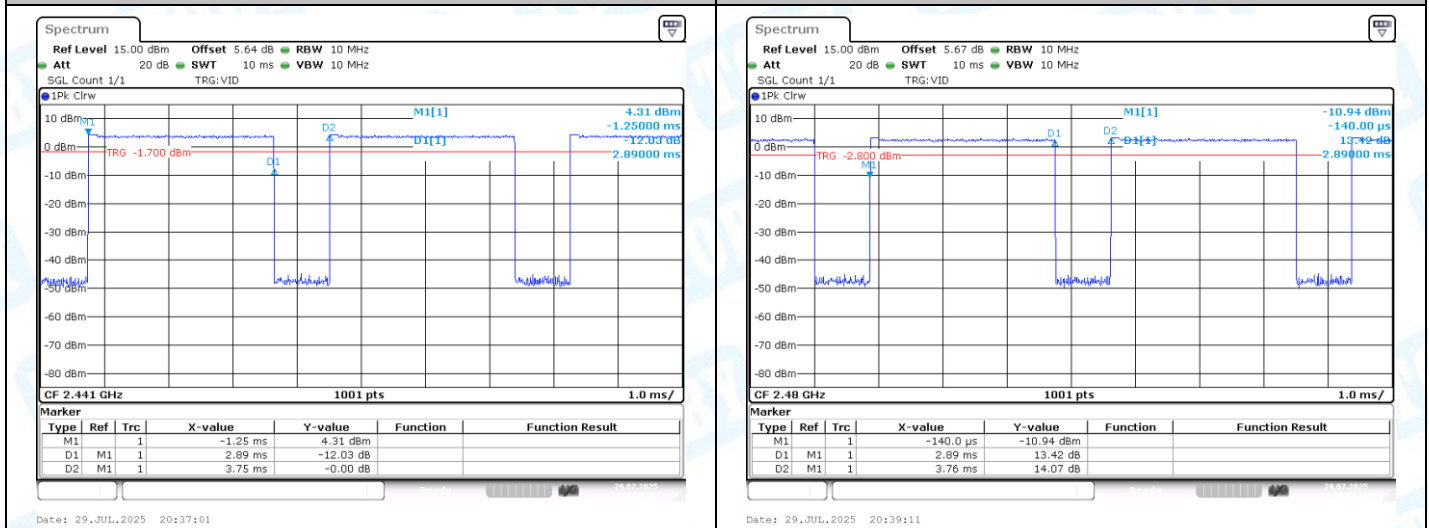
NTNV-DH5-Ant1-2441



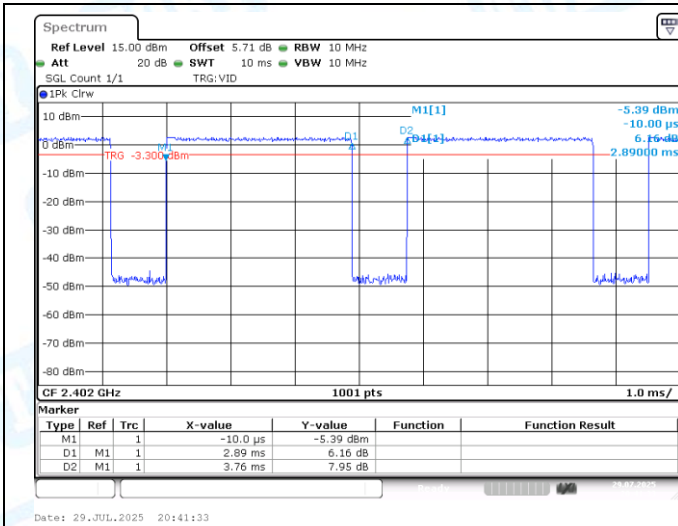
NTNV-DH5-Ant1-2480



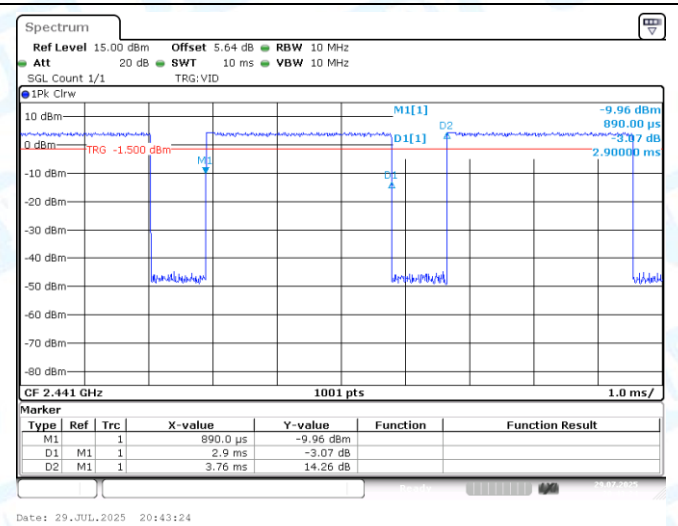
NTNV-2DH5-Ant1-2441



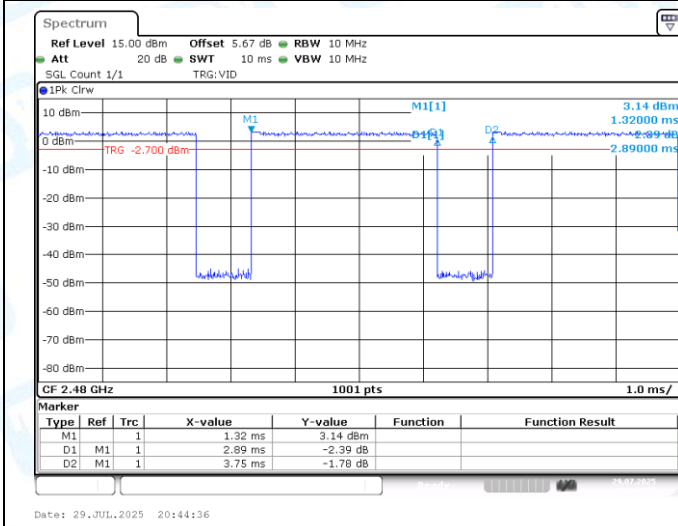
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

10: Emissions in Restricted Bands

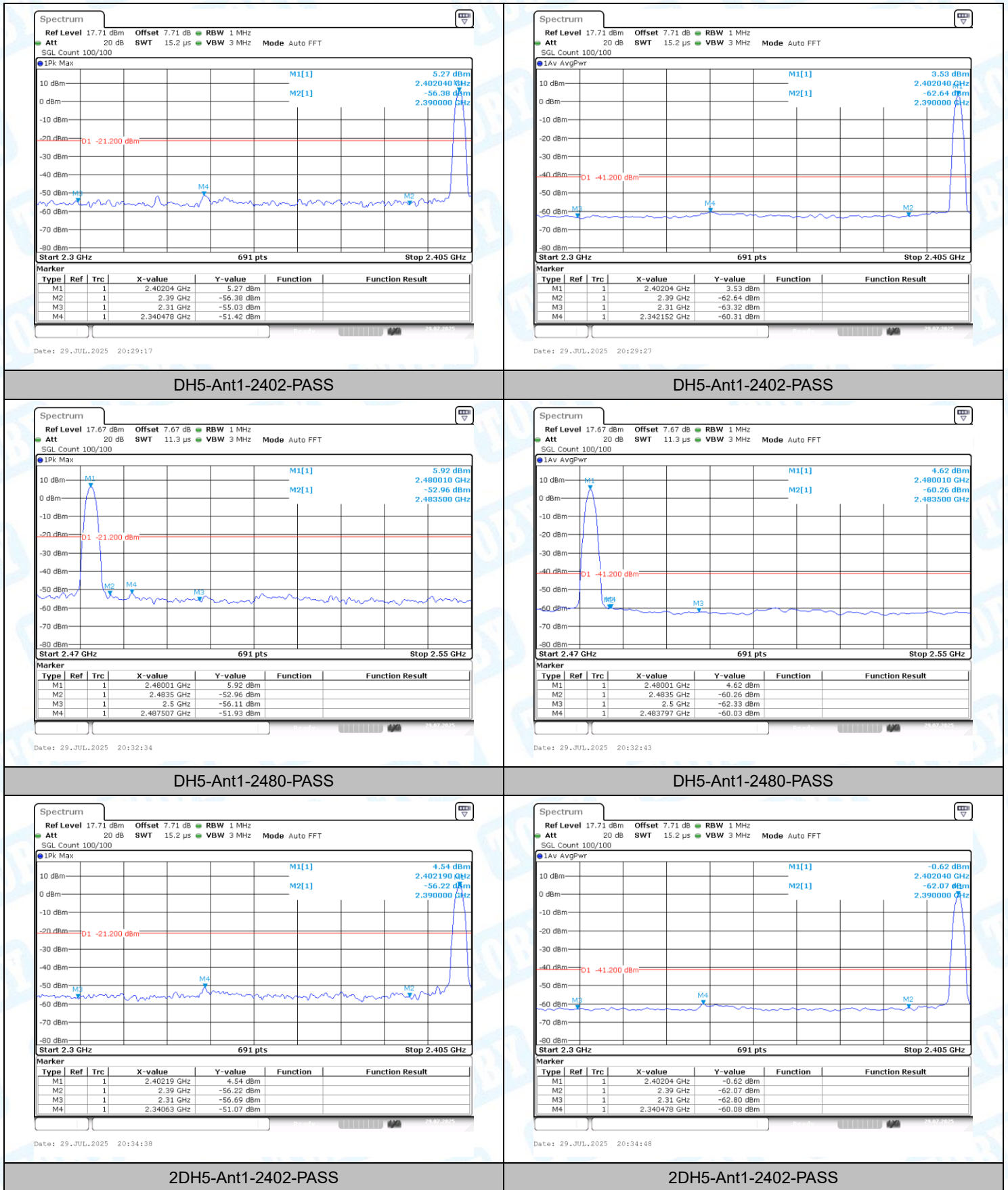
10.1 Test Result

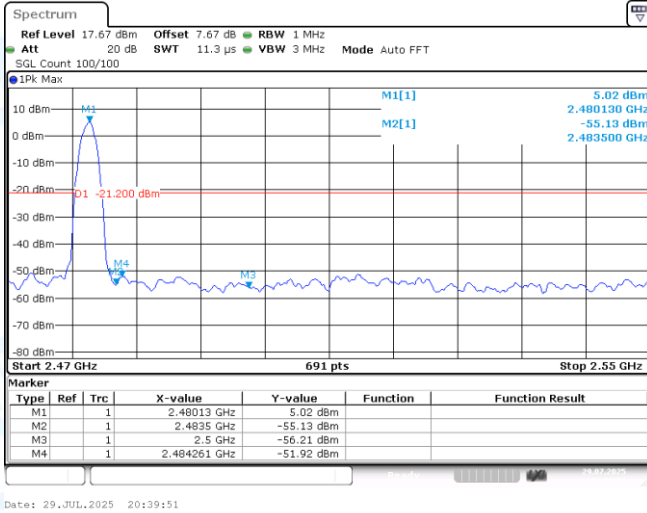
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	Peak	2390.000	-56.38	≤-21.20	38.82	≤74	PASS
DH5	Ant1	Low	2402	Peak	2310.000	-55.03	≤-21.20	40.17	≤74	PASS
DH5	Ant1	Low	2402	Peak	2340.478	-51.42	≤-21.20	43.78	≤74	PASS
DH5	Ant1	Low	2402	AV	2390.000	-62.64	≤-41.20	32.56	≤54	PASS
DH5	Ant1	Low	2402	AV	2310.000	-63.32	≤-41.20	31.88	≤54	PASS
DH5	Ant1	Low	2402	AV	2342.152	-60.31	≤-41.20	34.89	≤54	PASS
DH5	Ant1	High	2480	Peak	2483.500	-52.96	≤-21.20	42.24	≤74	PASS
DH5	Ant1	High	2480	Peak	2500.000	-56.11	≤-21.20	39.09	≤74	PASS
DH5	Ant1	High	2480	Peak	2487.507	-51.93	≤-21.20	43.27	≤74	PASS
DH5	Ant1	High	2480	AV	2483.500	-60.26	≤-41.20	34.94	≤54	PASS
DH5	Ant1	High	2480	AV	2500.000	-62.33	≤-41.20	32.87	≤54	PASS
DH5	Ant1	High	2480	AV	2483.797	-60.03	≤-41.20	35.17	≤54	PASS
2DH5	Ant1	Low	2402	Peak	2390.000	-56.22	≤-21.20	38.98	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2310.000	-56.69	≤-21.20	38.51	≤74	PASS
2DH5	Ant1	Low	2402	Peak	2340.630	-51.07	≤-21.20	44.13	≤74	PASS
2DH5	Ant1	Low	2402	AV	2390.000	-62.07	≤-41.20	33.13	≤54	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-62.8	≤-41.20	32.40	≤54	PASS
2DH5	Ant1	Low	2402	AV	2340.478	-60.08	≤-41.20	35.12	≤54	PASS
2DH5	Ant1	High	2480	Peak	2483.500	-55.13	≤-21.20	40.07	≤74	PASS
2DH5	Ant1	High	2480	Peak	2500.000	-56.21	≤-21.20	38.99	≤74	PASS
2DH5	Ant1	High	2480	Peak	2484.261	-51.92	≤-21.20	43.28	≤74	PASS
2DH5	Ant1	High	2480	AV	2483.500	-60.19	≤-41.20	35.01	≤54	PASS
2DH5	Ant1	High	2480	AV	2500.000	-62.16	≤-41.20	33.04	≤54	PASS
2DH5	Ant1	High	2480	AV	2483.565	-60.33	≤-41.20	34.87	≤54	PASS
3DH5	Ant1	Low	2402	Peak	2390.000	-54.17	≤-21.20	41.03	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2310.000	-53.99	≤-21.20	41.21	≤74	PASS
3DH5	Ant1	Low	2402	Peak	2345.652	-51.62	≤-21.20	43.58	≤74	PASS
3DH5	Ant1	Low	2402	AV	2390.000	-62.08	≤-41.20	33.12	≤54	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-62.98	≤-41.20	32.22	≤54	PASS
3DH5	Ant1	Low	2402	AV	2340.022	-60.47	≤-41.20	34.73	≤54	PASS
3DH5	Ant1	High	2480	Peak	2483.500	-55.35	≤-21.20	39.85	≤74	PASS
3DH5	Ant1	High	2480	Peak	2500.000	-54.92	≤-21.20	40.28	≤74	PASS
3DH5	Ant1	High	2480	Peak	2483.913	-51.83	≤-21.20	43.37	≤74	PASS
3DH5	Ant1	High	2480	AV	2483.500	-61.09	≤-41.20	34.11	≤54	PASS
3DH5	Ant1	High	2480	AV	2500.000	-62.53	≤-41.20	32.67	≤54	PASS
3DH5	Ant1	High	2480	AV	2483.913	-60.8	≤-41.20	34.40	≤54	PASS

Note:

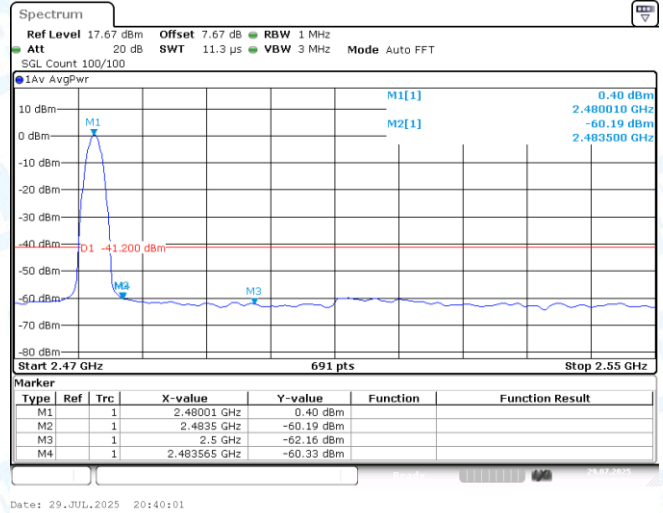
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

10.2 Test Graphs

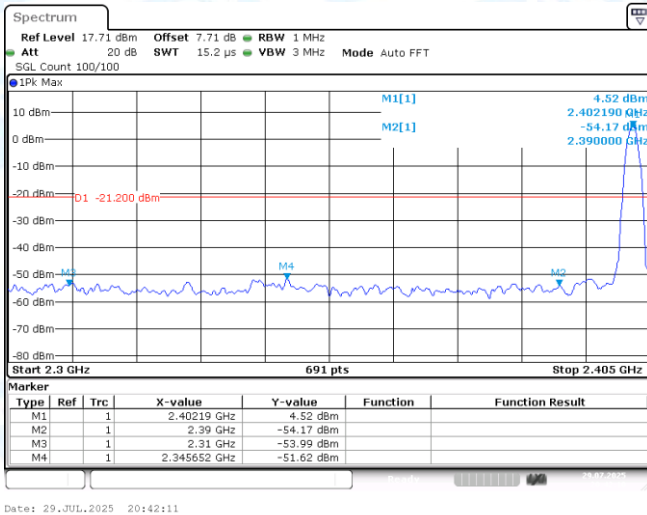




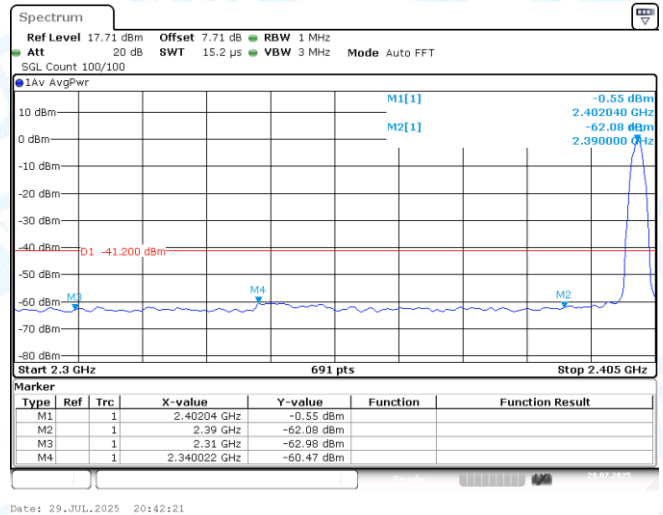
2DH5-Ant1-2480-PASS



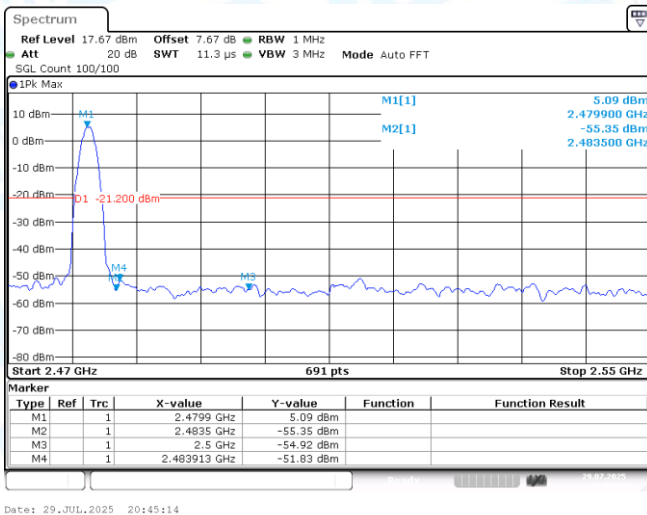
2DH5-Ant1-2480-PASS



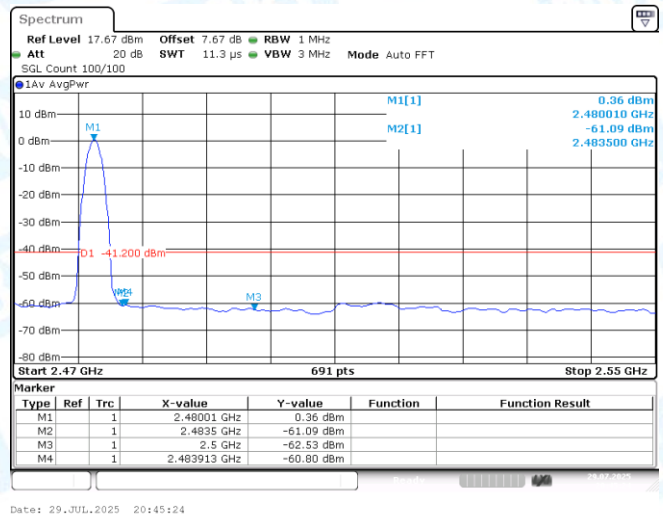
3DH5-Ant1-2402-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-2480-PASS

-----END OF THE REPORT-----