

Appendix Test Data for BT_BLE

1. RF Output Power, Duty Cycle, Tx-sequence, Tx-gap, Medium Utilization

1.1 Test Result

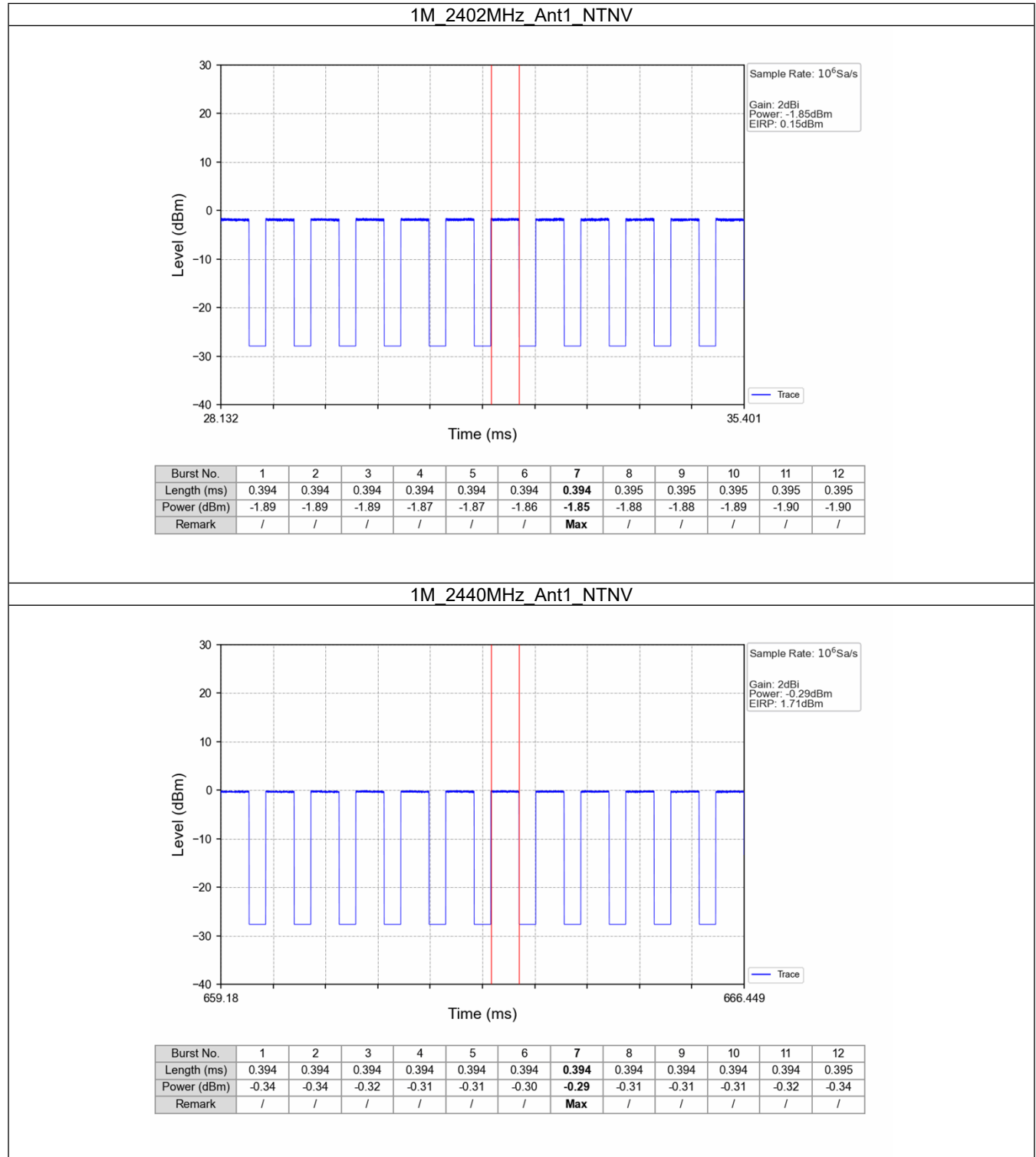
1.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	1M	SISO	2402	1	3.33	-1.85	1.48	<=20	Pass
			2440	1	3.33	-0.29	3.04	<=20	Pass
			2480	1	3.33	-1.98	1.35	<=20	Pass
	2M	SISO	2402	1	3.33	-1.00	2.33	<=20	Pass
			2440	1	3.33	-1.46	1.87	<=20	Pass
			2480	1	3.33	-0.55	2.78	<=20	Pass
HTNV	1M	SISO	2402	1	3.33	-1.85	1.48	<=20	Pass
			2440	1	3.33	-0.28	3.05	<=20	Pass
			2480	1	3.33	-1.98	1.35	<=20	Pass
	2M	SISO	2402	1	3.33	-1.01	2.32	<=20	Pass
			2440	1	3.33	-1.46	1.87	<=20	Pass
			2480	1	3.33	-0.56	2.77	<=20	Pass
LTVN	1M	SISO	2402	1	3.33	-1.85	1.48	<=20	Pass
			2440	1	3.33	-0.28	3.05	<=20	Pass
			2480	1	3.33	-1.99	1.34	<=20	Pass
	2M	SISO	2402	1	3.33	-0.99	2.34	<=20	Pass
			2440	1	3.33	-1.46	1.87	<=20	Pass
			2480	1	3.33	-0.55	2.78	<=20	Pass

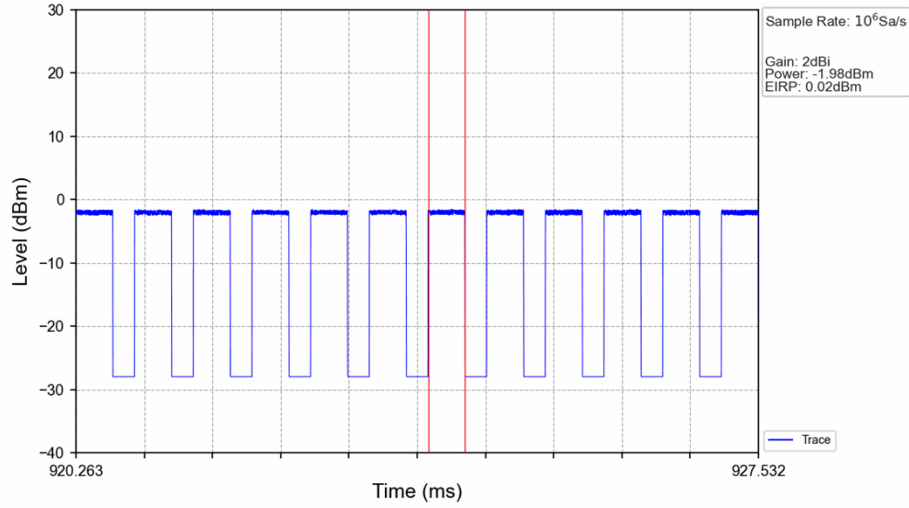
Note1: E.I.R.P = Measured Power + Antenna Gain

1.2 Test Graph

1.2.1 Power

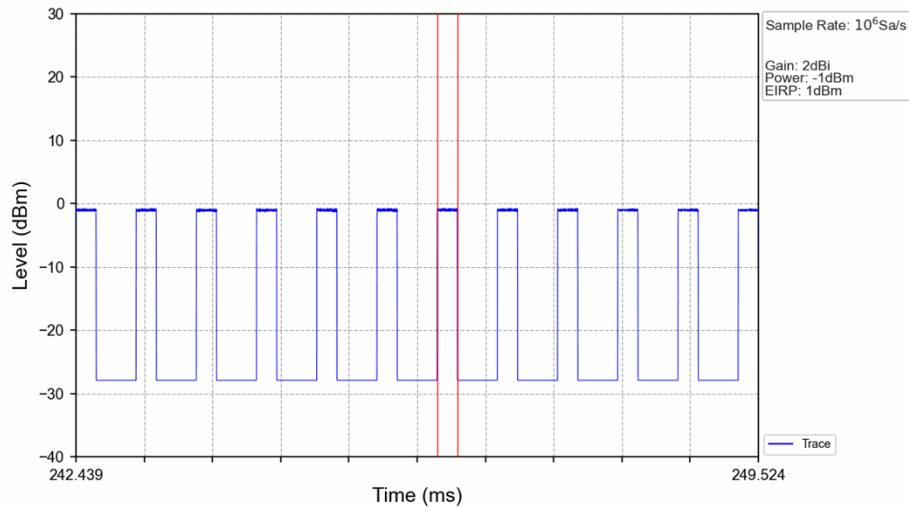


1M_2480MHz_Ant1_NTNV



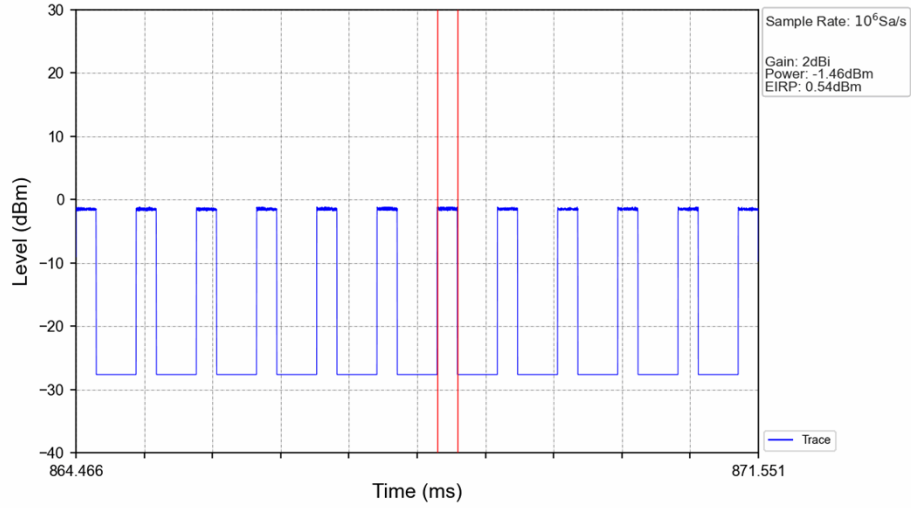
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.395	0.395	0.395	0.395	0.395
Power (dBm)	-2.01	-2.03	-2.01	-2.02	-2.01	-2.00	-1.98	-2.01	-2.01	-2.02	-2.04	-2.03
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2402MHz_Ant1_NTNV



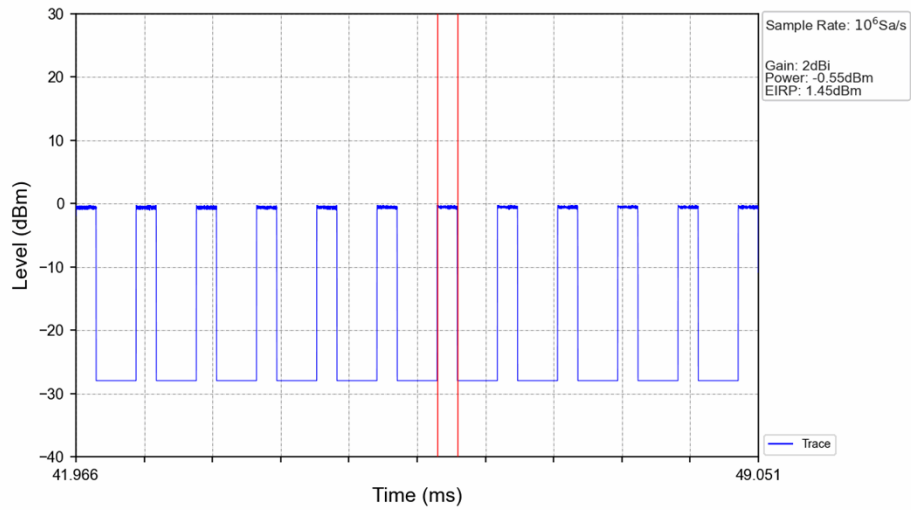
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.211	0.211	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.05	-1.06	-1.06	-1.05	-1.03	-1.02	-1.00	-1.02	-1.02	-1.03	-1.04	-1.05
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2440MHz_Ant1_NTNV



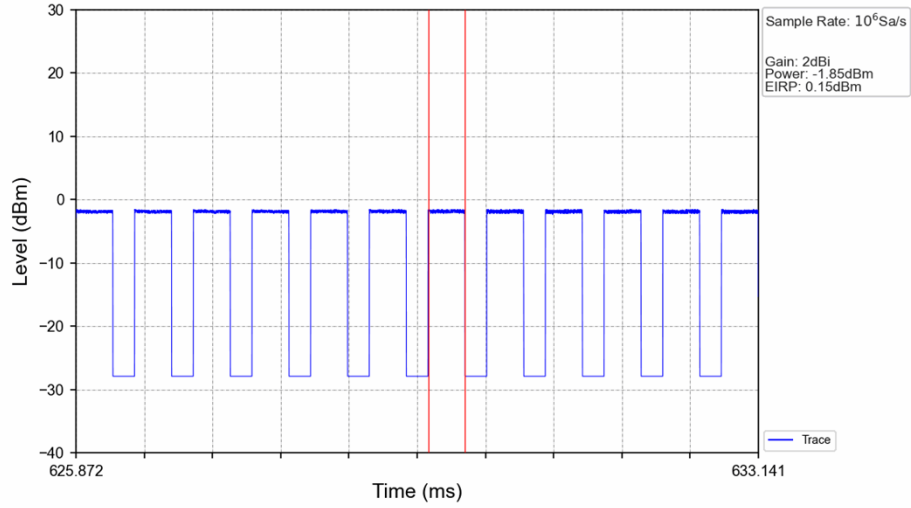
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.211	0.211	0.211	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.55	-1.55	-1.56	-1.50	-1.49	-1.48	-1.46	-1.49	-1.50	-1.50	-1.50	-1.51
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2480MHz_Ant1_NTNV



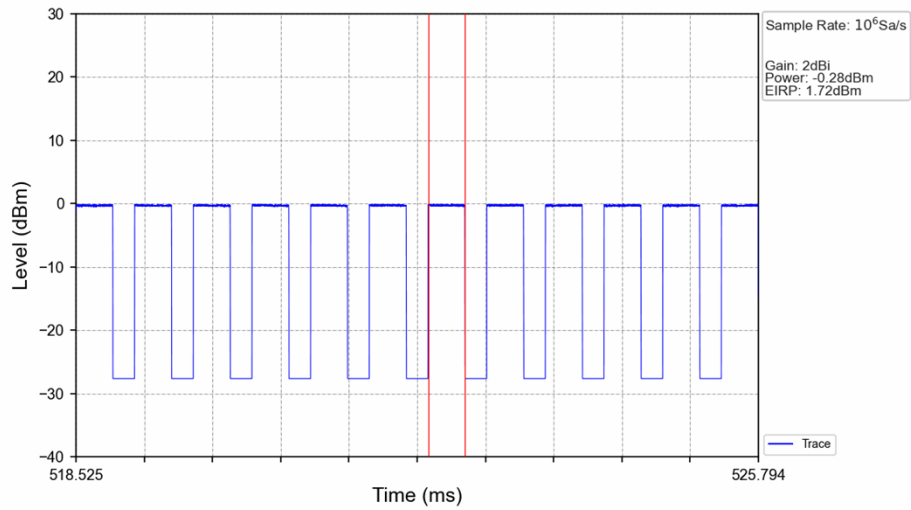
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-0.61	-0.61	-0.61	-0.60	-0.60	-0.56	-0.55	-0.55	-0.56	-0.56	-0.57	-0.58
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2402MHz_Ant1_HTNV



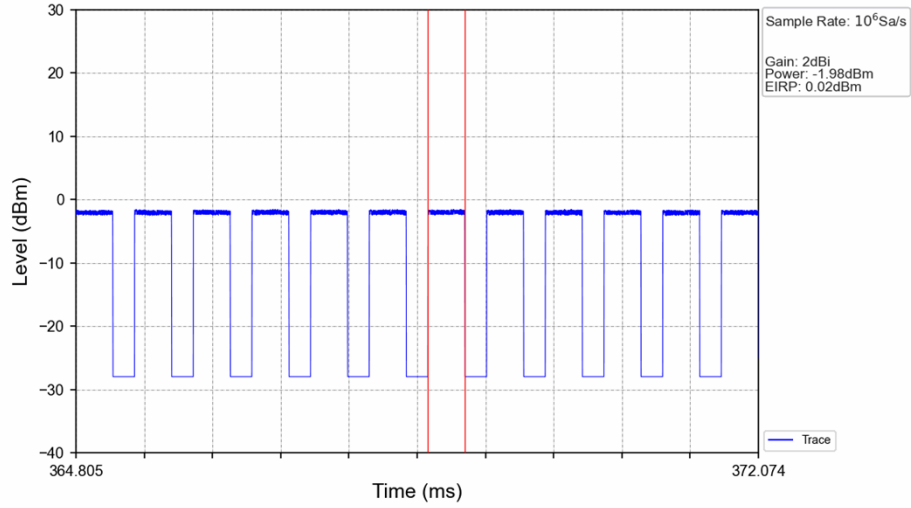
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.395
Power (dBm)	-1.89	-1.89	-1.88	-1.88	-1.86	-1.86	-1.85	-1.88	-1.88	-1.89	-1.90	-1.91
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2440MHz_Ant1_HTNV



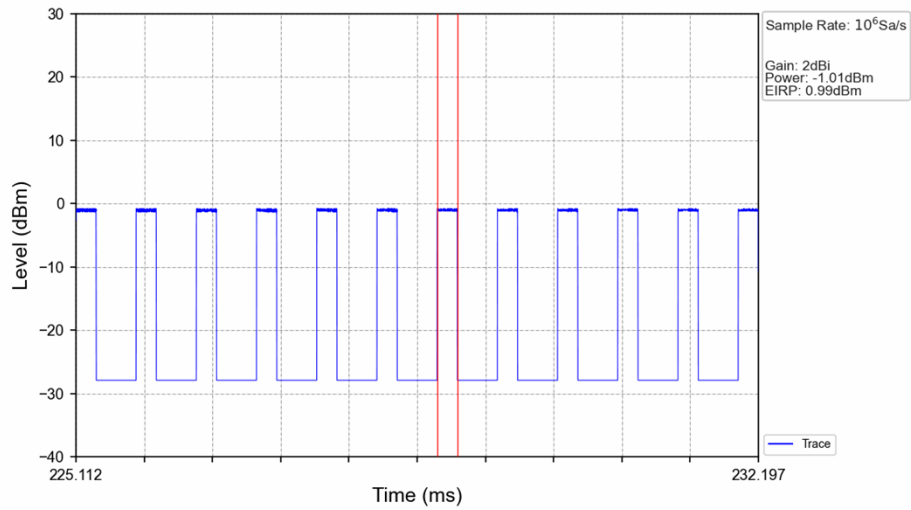
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.395	0.395	0.395
Power (dBm)	-0.32	-0.33	-0.32	-0.31	-0.31	-0.29	-0.28	-0.28	-0.31	-0.33	-0.34	-0.33
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2480MHz_Ant1_HTNV



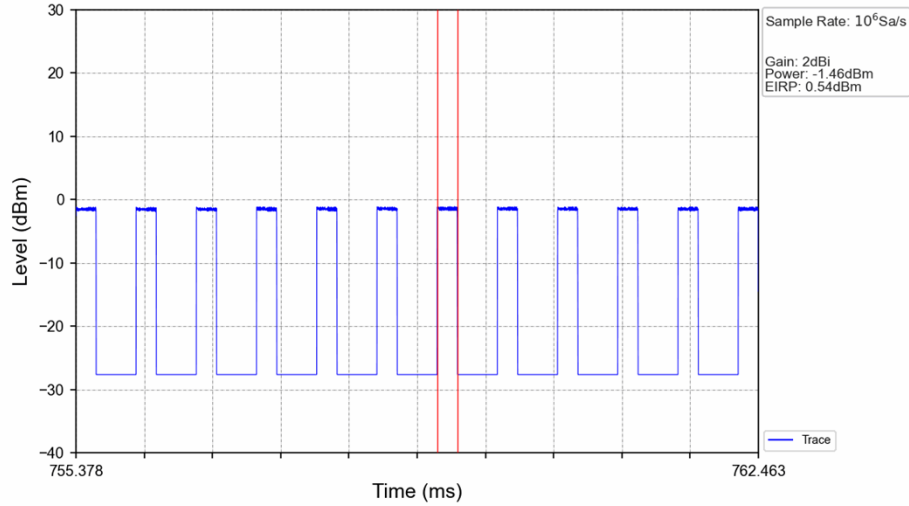
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.394	0.394	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
Power (dBm)	-2.04	-2.02	-2.00	-2.00	-2.00	-1.98	-1.98	-2.01	-2.02	-2.04	-2.06	-2.04
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2402MHz_Ant1_HTNV



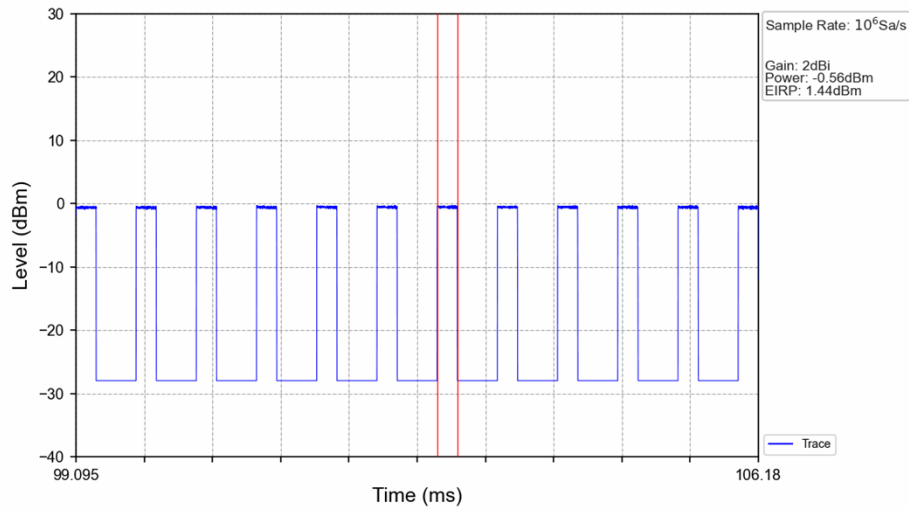
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.211	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.08	-1.06	-1.06	-1.06	-1.03	-1.02	-1.01	-1.03	-1.04	-1.02	-1.04	-1.04
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2440MHz_Ant1_HTNV



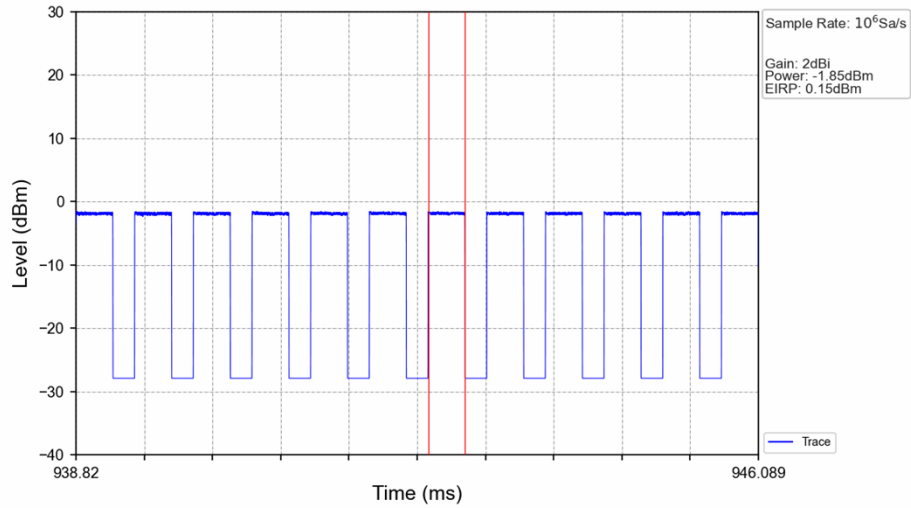
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.51	-1.53	-1.52	-1.49	-1.49	-1.47	-1.46	-1.47	-1.49	-1.50	-1.51	-1.51
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2480MHz_Ant1_HTNV



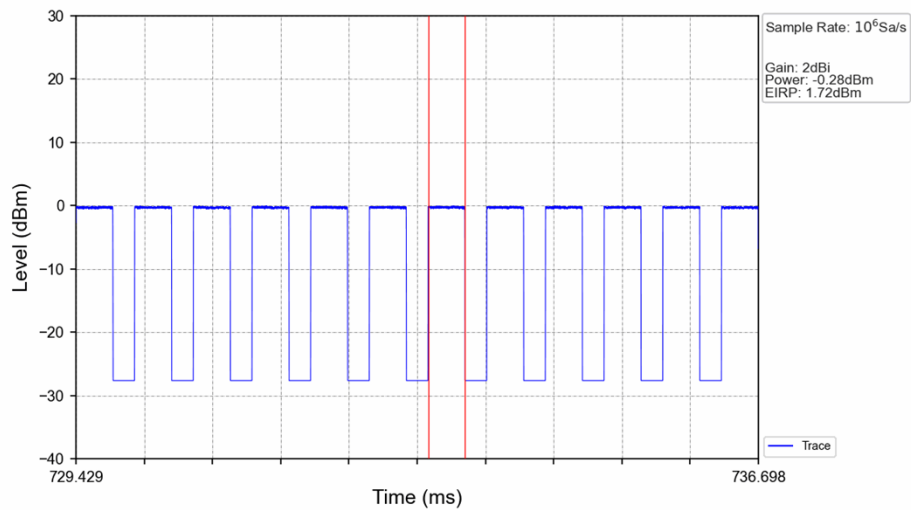
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-0.63	-0.63	-0.62	-0.59	-0.57	-0.57	-0.56	-0.58	-0.58	-0.60	-0.60	-0.63
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2402MHz_Ant1_LTNV



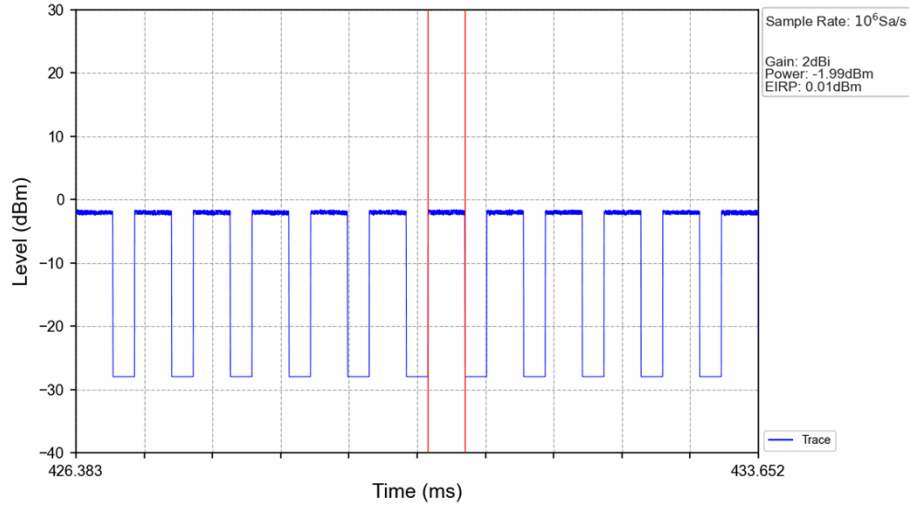
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.395	0.395	0.395	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394
Power (dBm)	-1.89	-1.90	-1.90	-1.88	-1.87	-1.85	-1.85	-1.87	-1.87	-1.89	-1.88	-1.88
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2440MHz_Ant1_LTNV



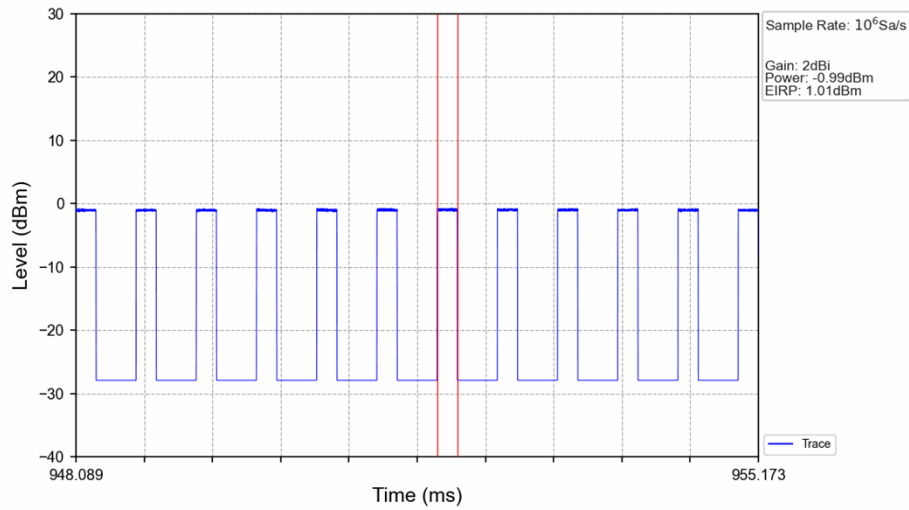
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.395	0.395	0.395	0.395	0.395	0.395	0.394	0.394	0.394	0.394	0.394	0.394
Power (dBm)	-0.33	-0.31	-0.33	-0.32	-0.31	-0.31	-0.28	-0.30	-0.30	-0.29	-0.30	-0.32
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

1M_2480MHz_Ant1_LTNV



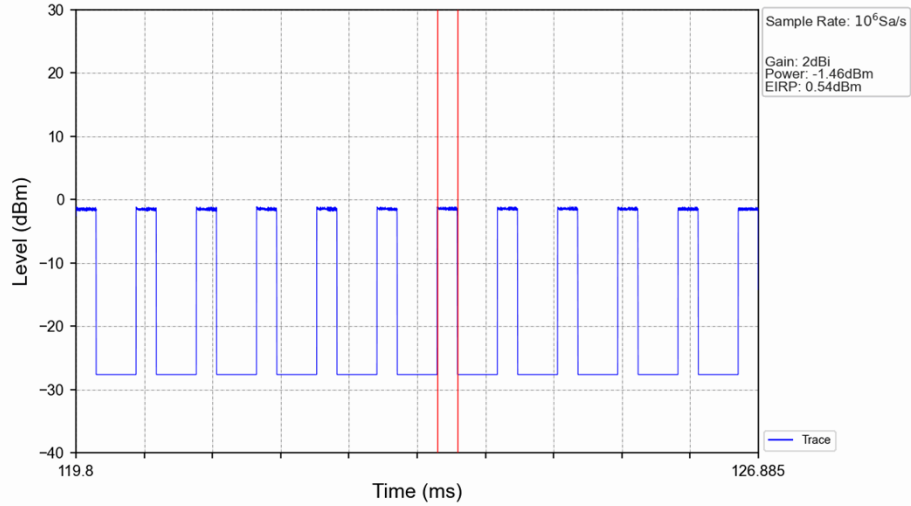
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.394	0.394	0.394	0.394	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
Power (dBm)	-2.02	-2.03	-2.02	-2.02	-2.02	-2.02	-1.99	-2.01	-2.02	-2.03	-2.04	-2.05
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2402MHz_Ant1_LTNV



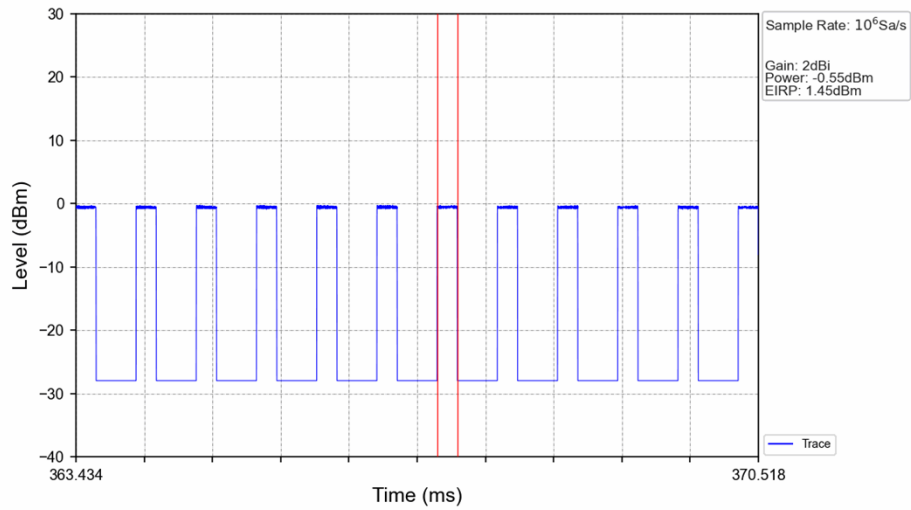
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.211	0.211	0.211	0.211	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.07	-1.07	-1.09	-1.07	-1.06	-1.02	-0.99	-1.00	-1.00	-1.02	-1.03	-1.05
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2440MHz_Ant1_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-1.51	-1.52	-1.51	-1.50	-1.49	-1.50	-1.46	-1.47	-1.47	-1.50	-1.51	-1.53
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2M_2480MHz_Ant1_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.210	0.210	0.211	0.211	0.211	0.211	0.210	0.210	0.210	0.210	0.210	0.210
Power (dBm)	-0.60	-0.61	-0.61	-0.60	-0.59	-0.57	-0.55	-0.58	-0.58	-0.58	-0.57	-0.61
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

2. Power Spectral Density

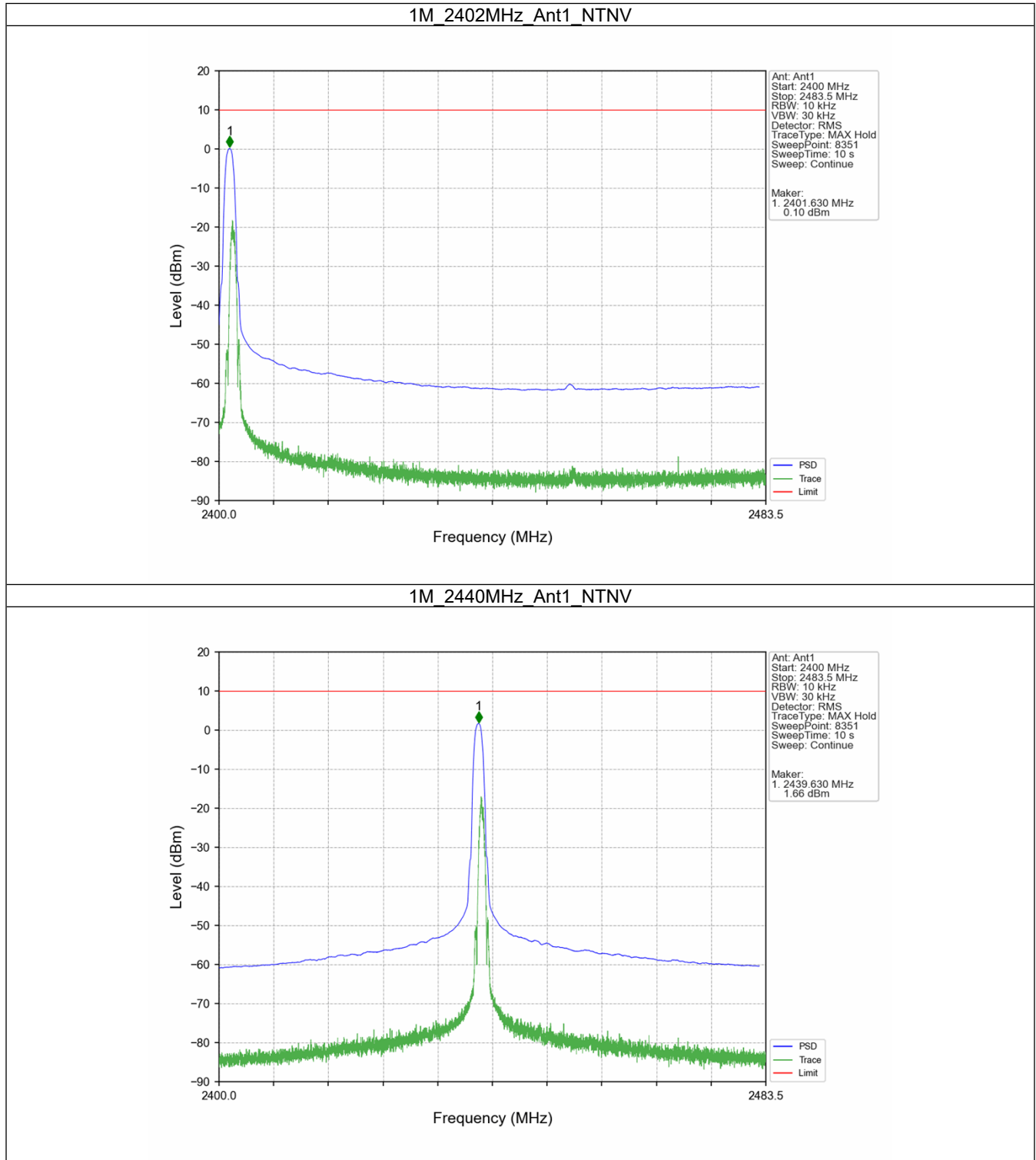
2.1 Test Result

2.1.1 PSD

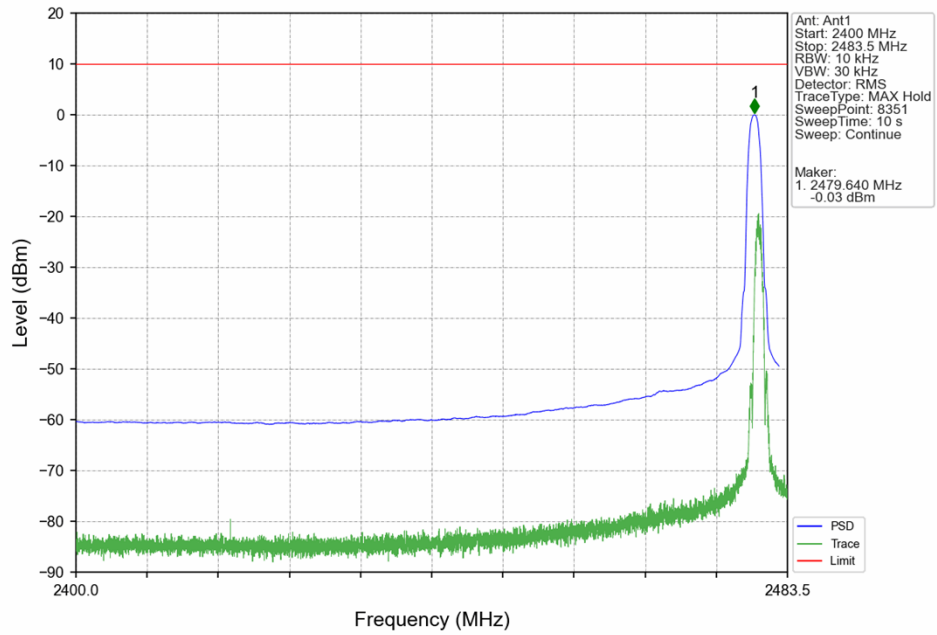
ENV	Mode	TX Type	Frequency (MHz)	ANT	E.I.R.PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	1M	SISO	2402	1	0.10	<=10	Pass
			2440	1	1.66	<=10	Pass
			2480	1	-0.03	<=10	Pass
	2M	SISO	2402	1	-0.06	<=10	Pass
			2440	1	-0.51	<=10	Pass
			2480	1	0.40	<=10	Pass

2.2 Test Graph

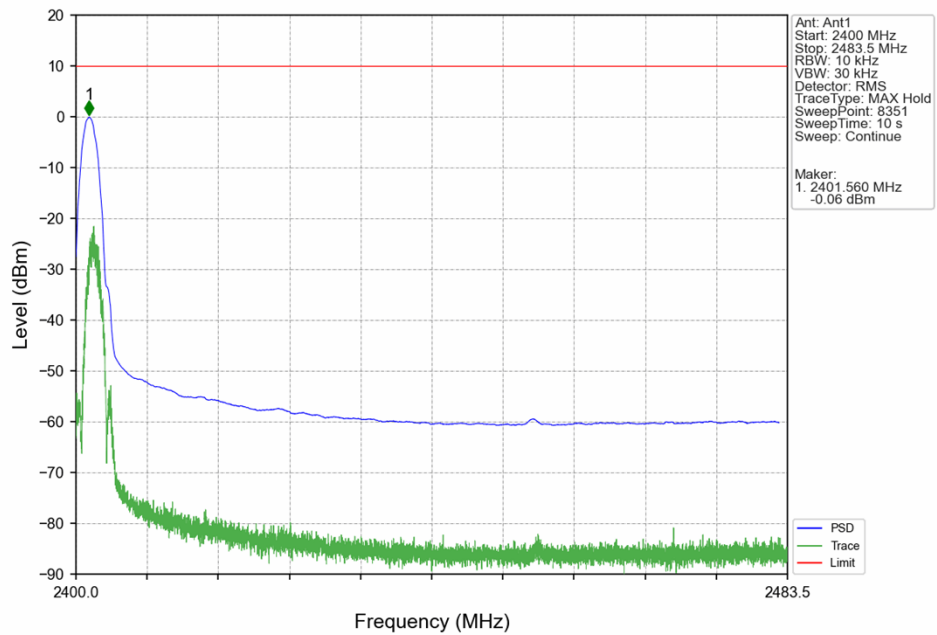
2.2.1 PSD



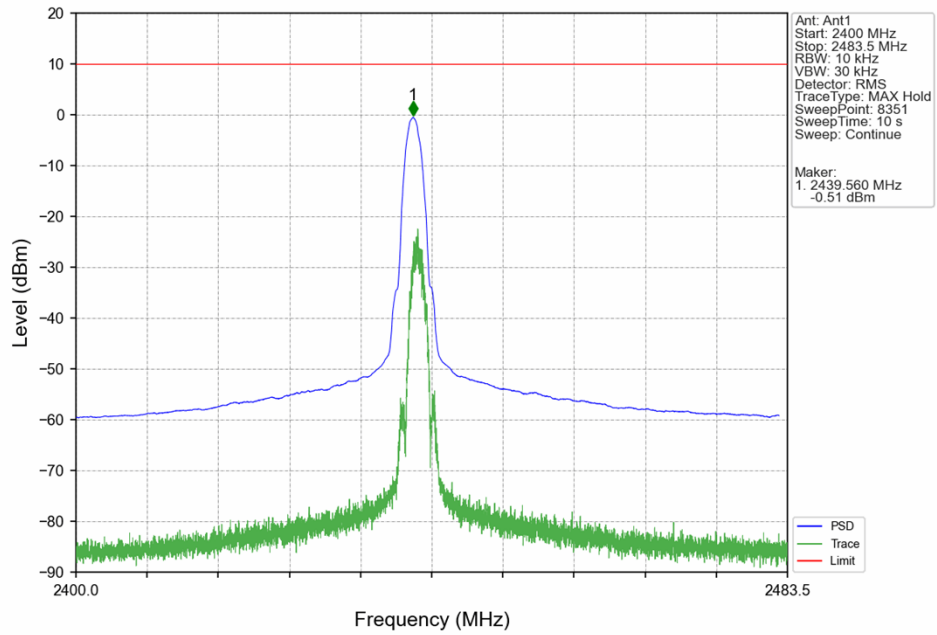
1M_2480MHz_Ant1_NTNV



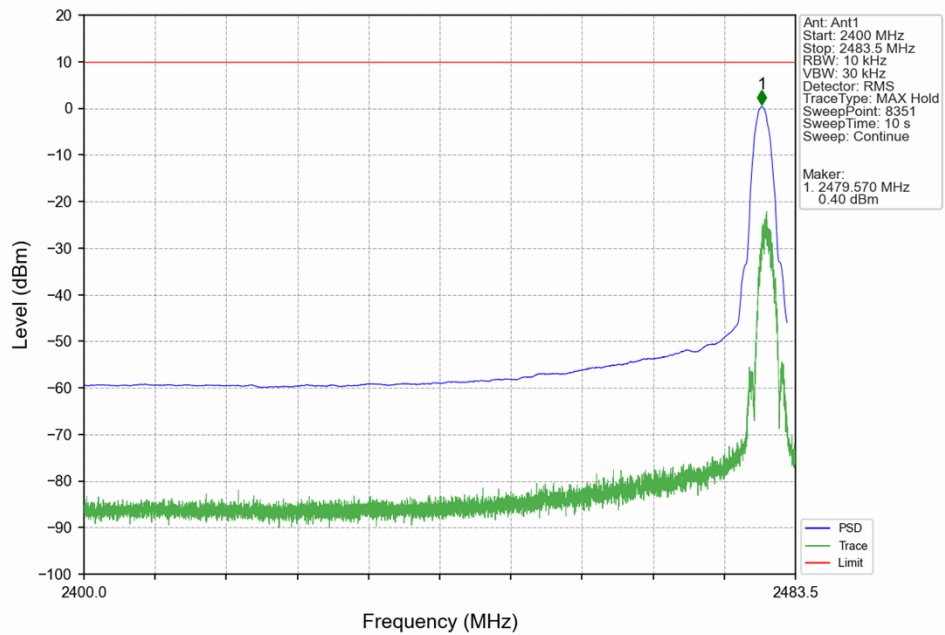
2M_2402MHz_Ant1_NTNV



2M_2440MHz_Ant1_NTNV



2M_2480MHz_Ant1_NTNV



3. Occupied Channel Bandwidth

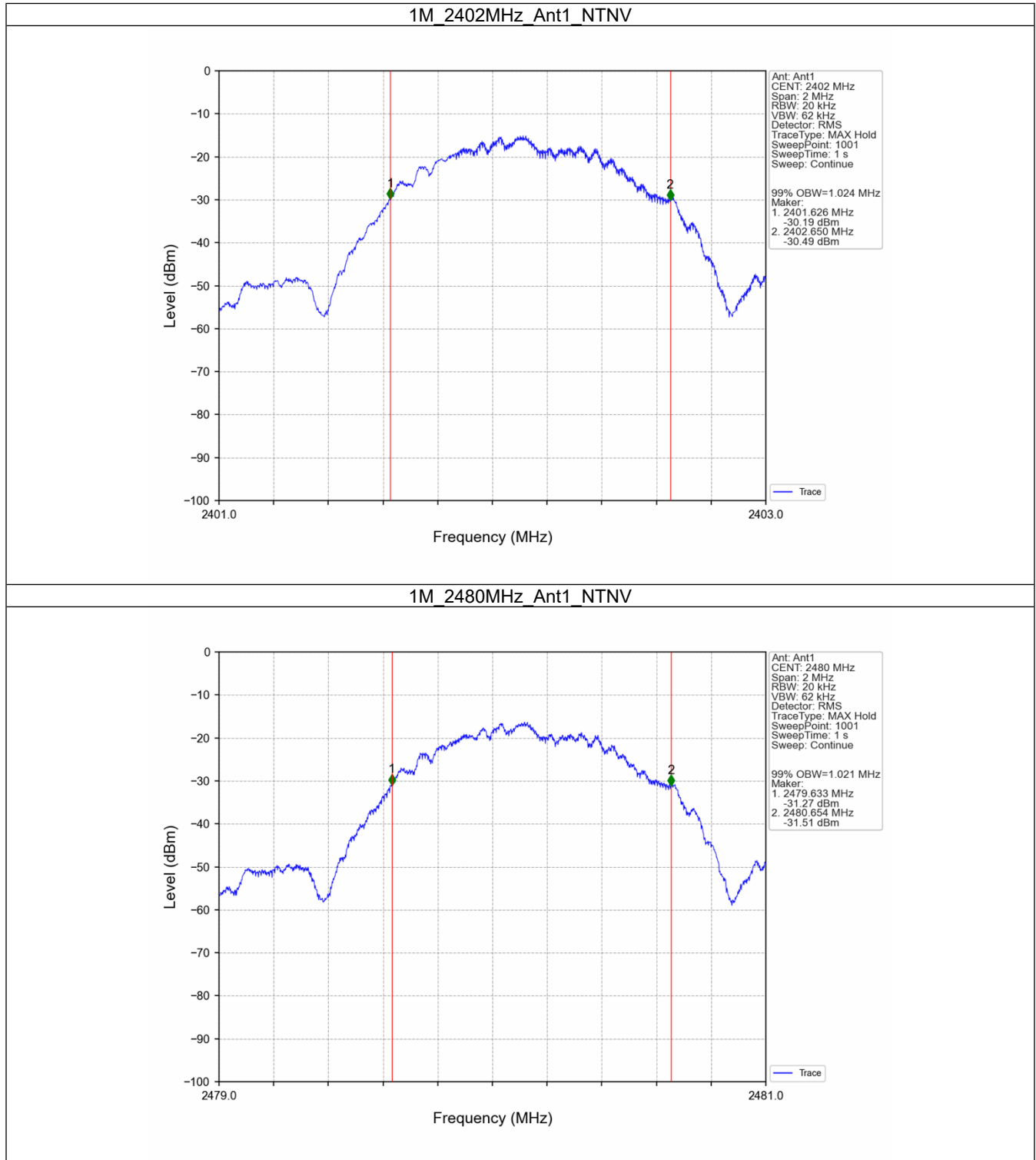
3.1 Test Result

3.1.1 OBW_Ant1

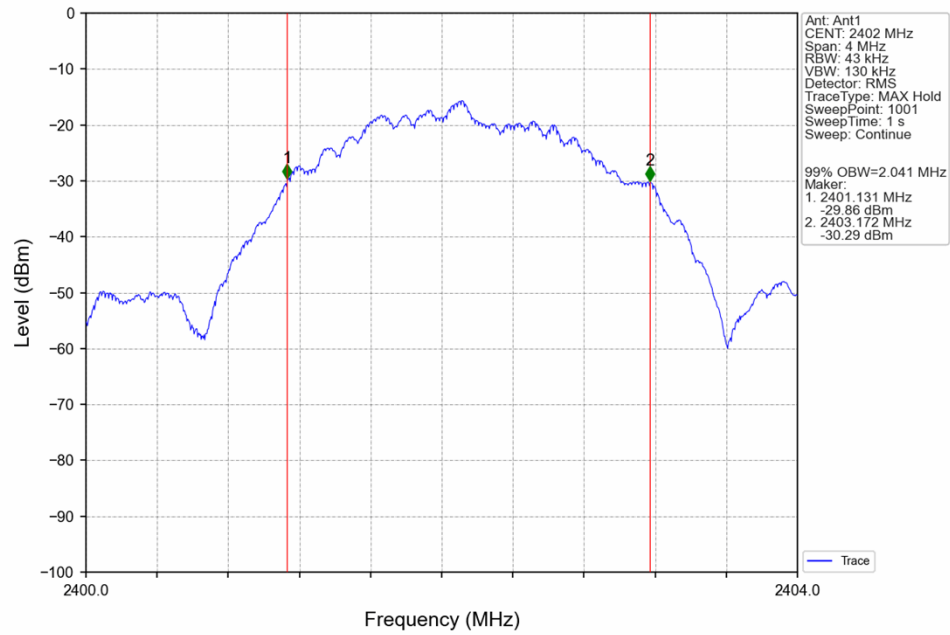
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	OBW (MHz)	Frequency Range (MHz)			Verdict
				Result	FL	FH	Limit	
NTNV	1M	SISO	2402	1.024	2401.626	/	≥ 2400	Pass
			2480	1.021	/	2480.654	≤ 2483.5	Pass
	2M	SISO	2402	2.041	2401.131	/	≥ 2400	Pass
			2480	2.041	/	2481.176	≤ 2483.5	Pass

3.2 Test Graph

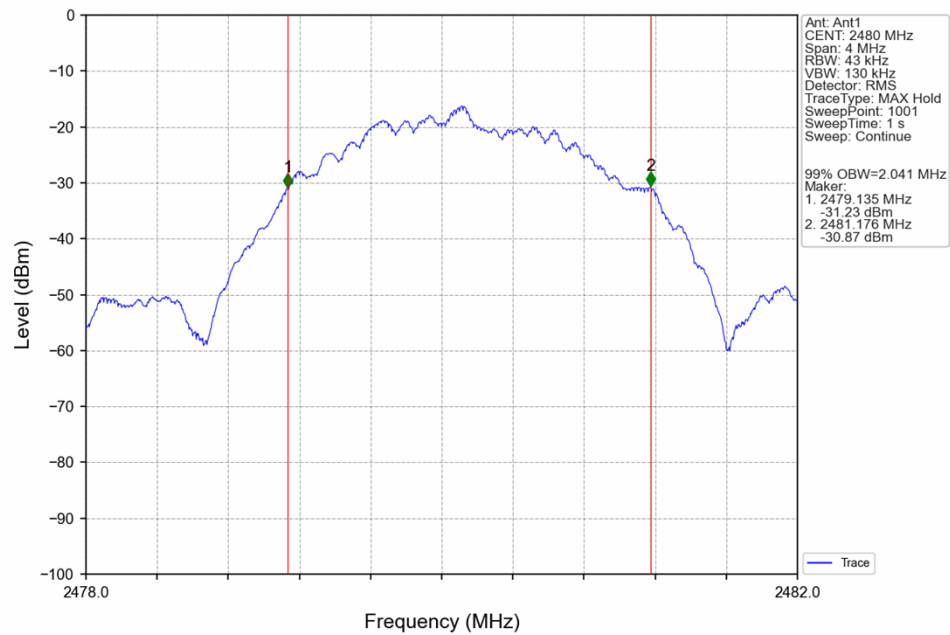
3.2.1 OBW_Ant1



2M_2402MHz_Ant1_NTNV



2M_2480MHz_Ant1_NTNV



4. Transmitter Unwanted Emissions In The Out-Of-Band Domain

4.1 Test Result

4.1.1 1M-Ant1

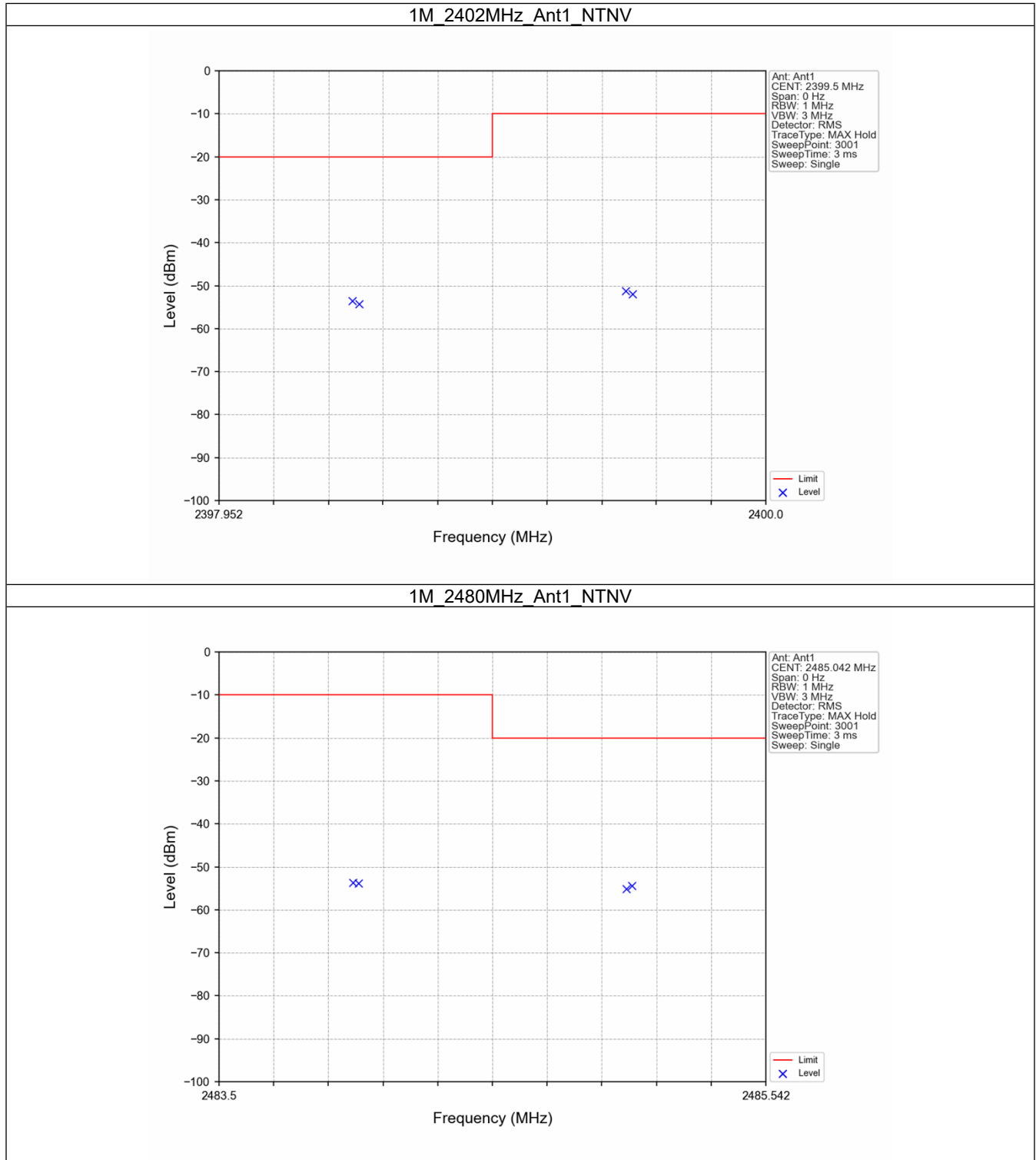
1M Ant1 NTV							
Mode	TX Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
1M	SISO	2402	1	2398.452	-53.58	<=-20	Pass
				2398.476	-54.31	<=-20	Pass
				2399.476	-51.16	<=-10	Pass
				2399.500	-52.01	<=-10	Pass
		2480	1	2484.000	-53.70	<=-10	Pass
				2484.021	-53.77	<=-10	Pass
				2485.021	-55.17	<=-20	Pass
				2485.042	-54.34	<=-20	Pass

4.1.2 2M-Ant1

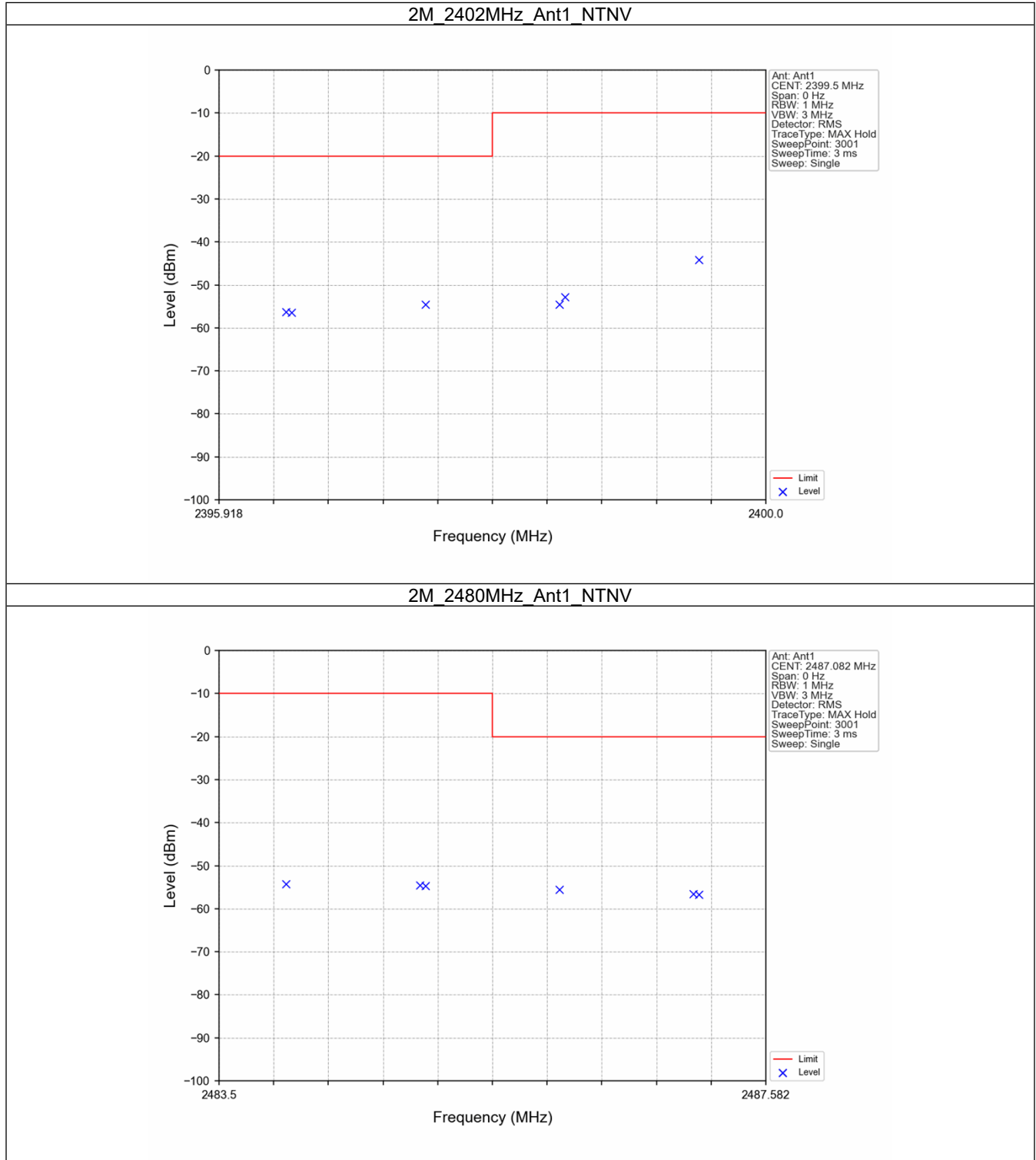
2M Ant1 NTV							
Mode	TX Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
2M	SISO	2402	1	2396.418	-56.30	<=-20	Pass
				2396.459	-56.38	<=-20	Pass
				2397.459	-54.55	<=-20	Pass
				2398.459	-54.60	<=-10	Pass
				2398.500	-52.86	<=-10	Pass
				2399.500	-44.11	<=-10	Pass
		2480	1	2484.000	-54.30	<=-10	Pass
				2485.000	-54.51	<=-10	Pass
				2485.041	-54.67	<=-10	Pass
				2486.041	-55.60	<=-20	Pass
				2487.041	-56.52	<=-20	Pass
				2487.082	-56.69	<=-20	Pass

4.2 Test Graph

4.2.1 1M-Ant1



4.2.2 2M-Ant1



5. Blocking

5.1 Test Result

5.1.1 1M-Ant1_NTNV

Wanted signal meanpower from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power(dBm) CW	PER	Limit	Results
-68.90	2300	-30.67	0.67%	≤10%	PASS
	2380		1.09%		
	2504		0.57%		
	2584		1.20%		

5.1.2 2M-Ant1_NTNV

Wanted signal meanpower from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power(dBm) CW	PER	Limit	Results
-65.90	2300	-30.67	1.11%	≤10%	PASS
	2380		0.27%		
	2504		1.41%		
	2584		0.66%		

***** End of Report *****