

Appendix B

7.1 Maximum Conducted Output Power

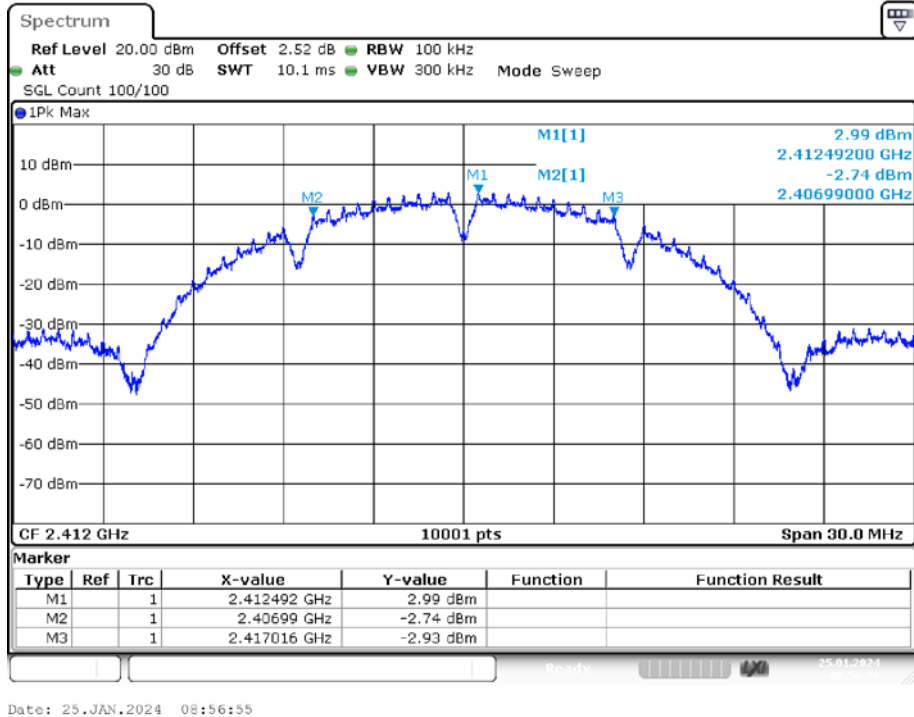
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.12	0	16.12	30	Pass
NVNT	b	2437	Ant1	16.32	0	16.32	30	Pass
NVNT	b	2462	Ant1	16.39	0	16.39	30	Pass
NVNT	g	2412	Ant1	15.48	0	15.48	30	Pass
NVNT	g	2437	Ant1	15.62	0	15.62	30	Pass
NVNT	g	2462	Ant1	15.65	0	15.65	30	Pass
NVNT	n20	2412	Ant1	15.68	0	15.68	30	Pass
NVNT	n20	2437	Ant1	15.8	0	15.8	30	Pass
NVNT	n20	2462	Ant1	15.88	0	15.88	30	Pass

7.2 -6dB Bandwidth

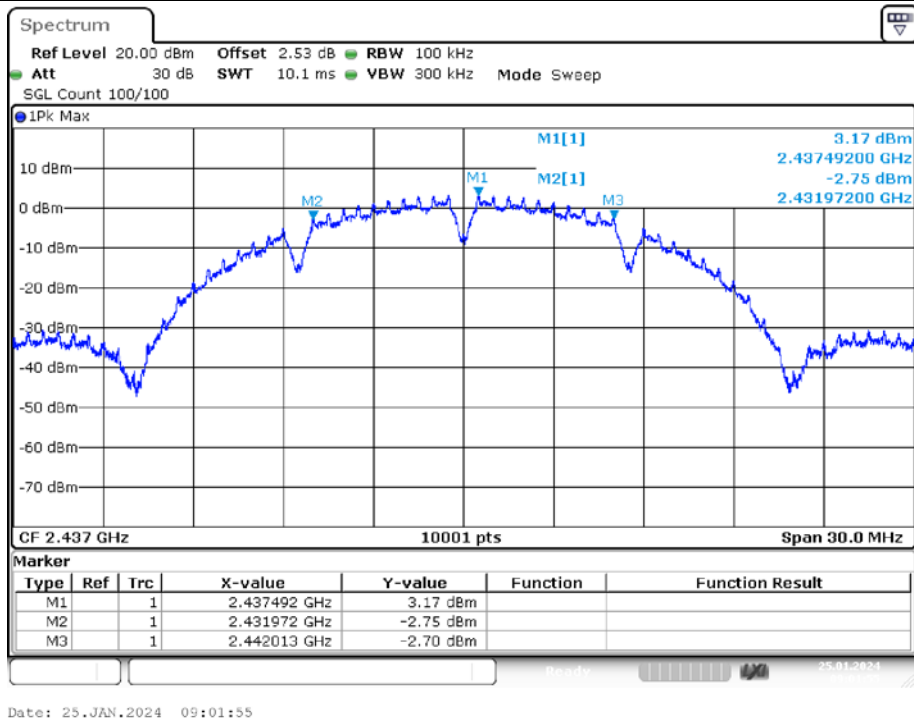
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.03	0.5	Pass
NVNT	b	2437	Ant1	10.04	0.5	Pass
NVNT	b	2462	Ant1	10.04	0.5	Pass
NVNT	g	2412	Ant1	16.34	0.5	Pass
NVNT	g	2437	Ant1	16.33	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass
NVNT	n20	2412	Ant1	17.59	0.5	Pass
NVNT	n20	2437	Ant1	17.6	0.5	Pass
NVNT	n20	2462	Ant1	17.59	0.5	Pass

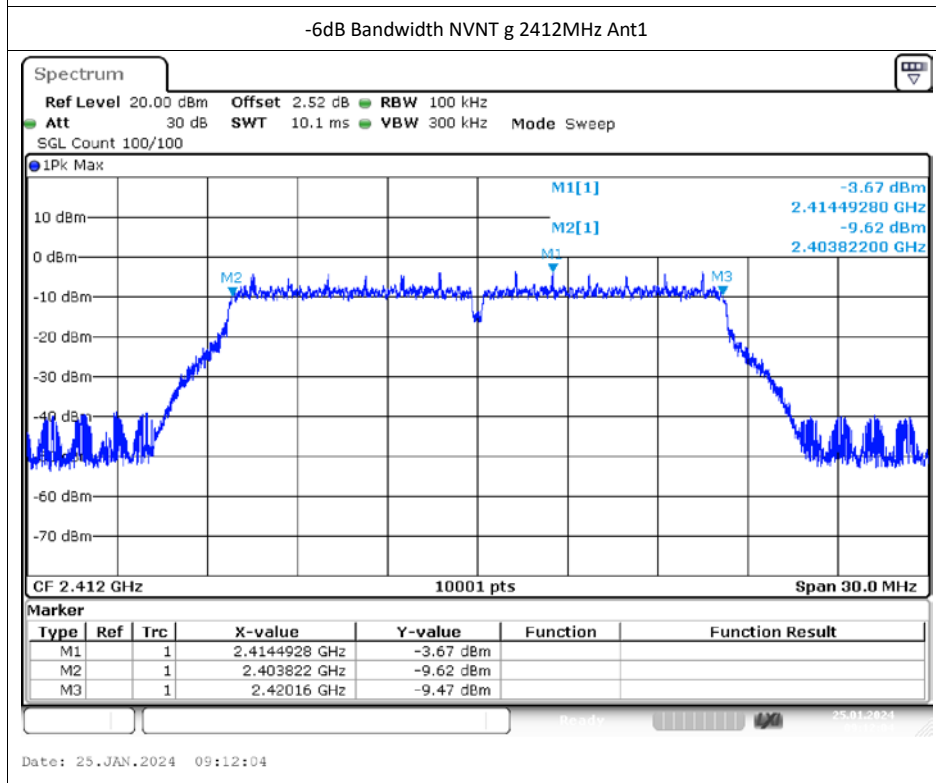
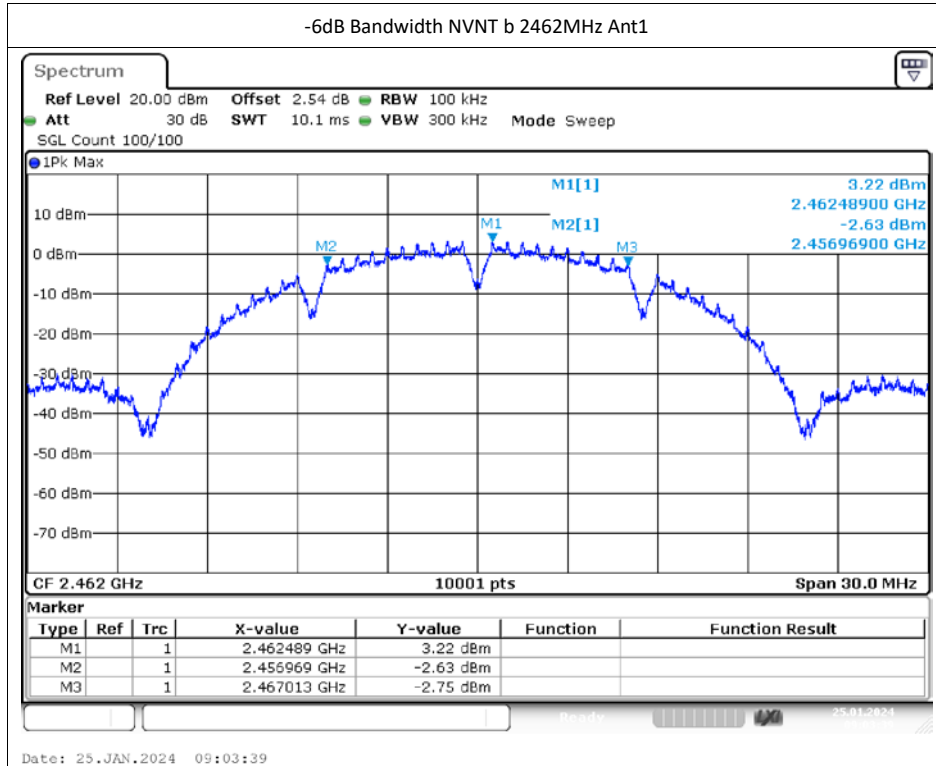
Test Graphs

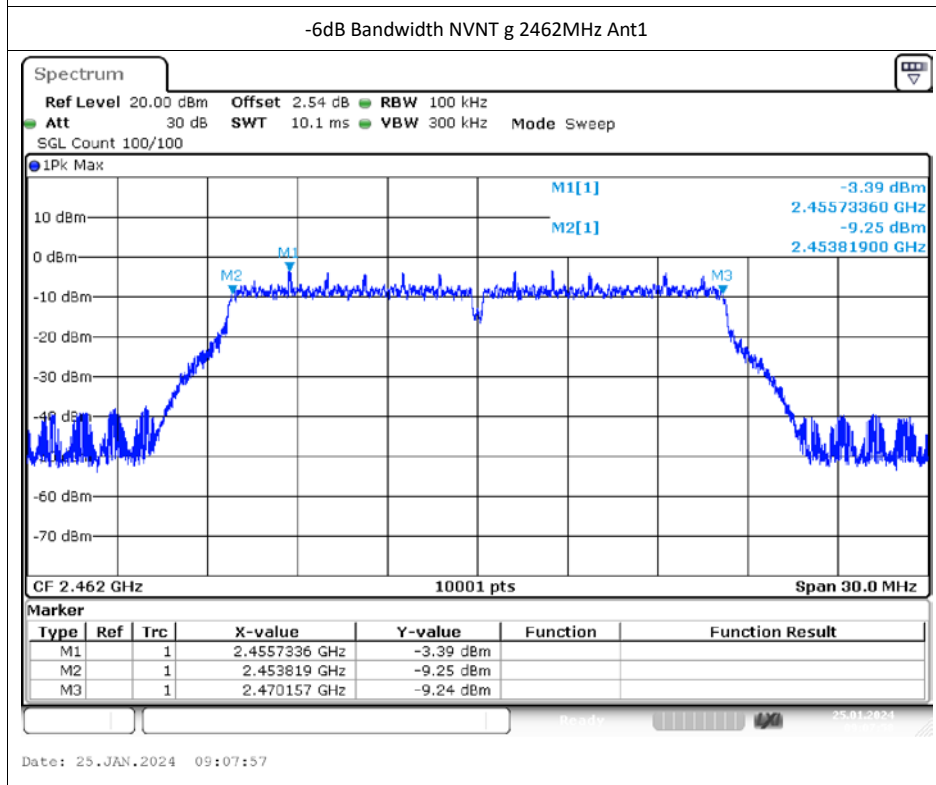
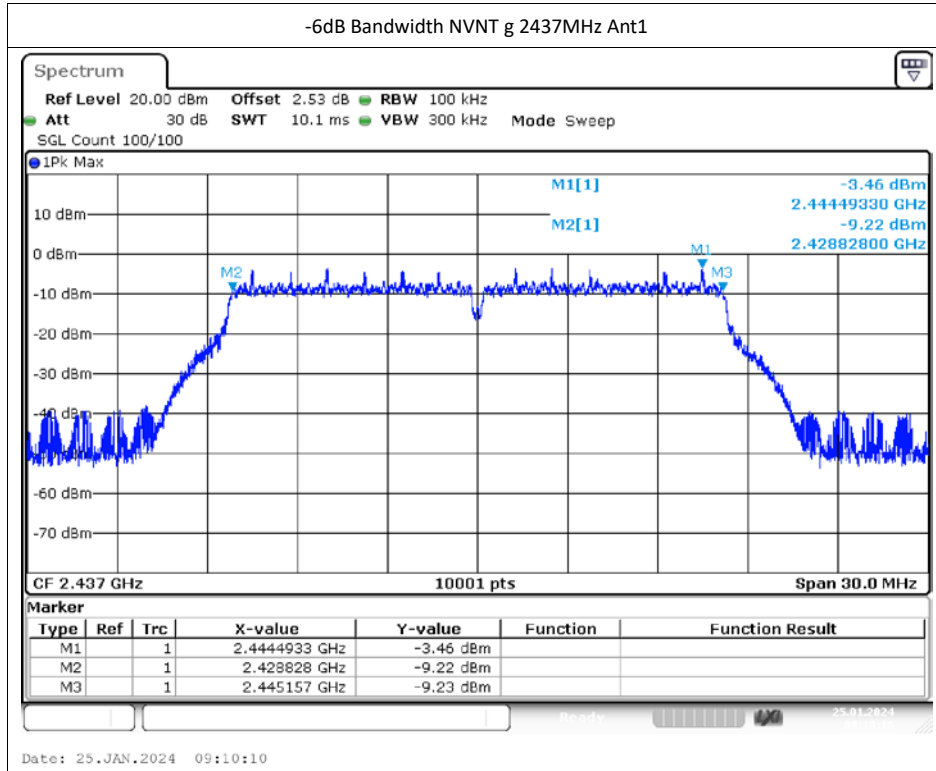
-6dB Bandwidth NVNT b 2412MHz Ant1

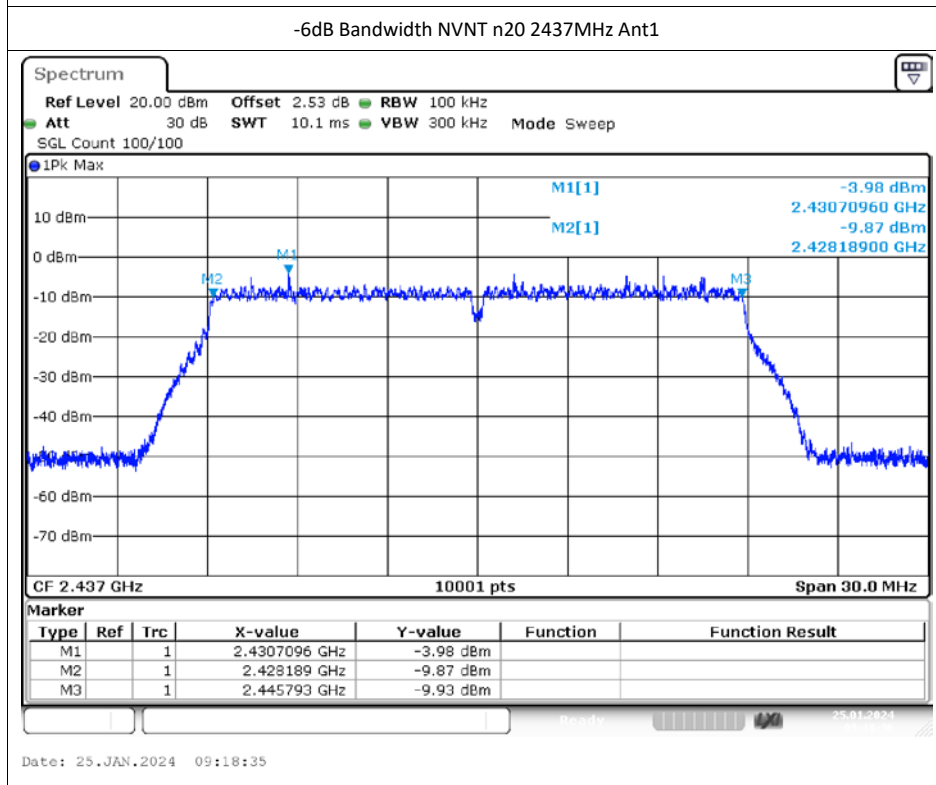
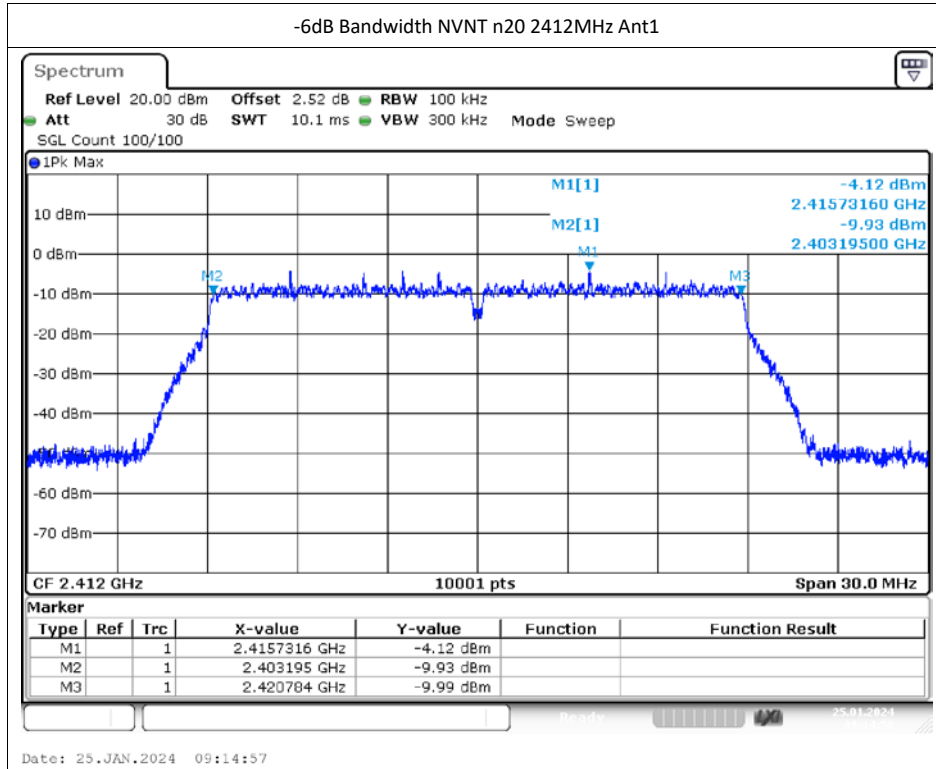


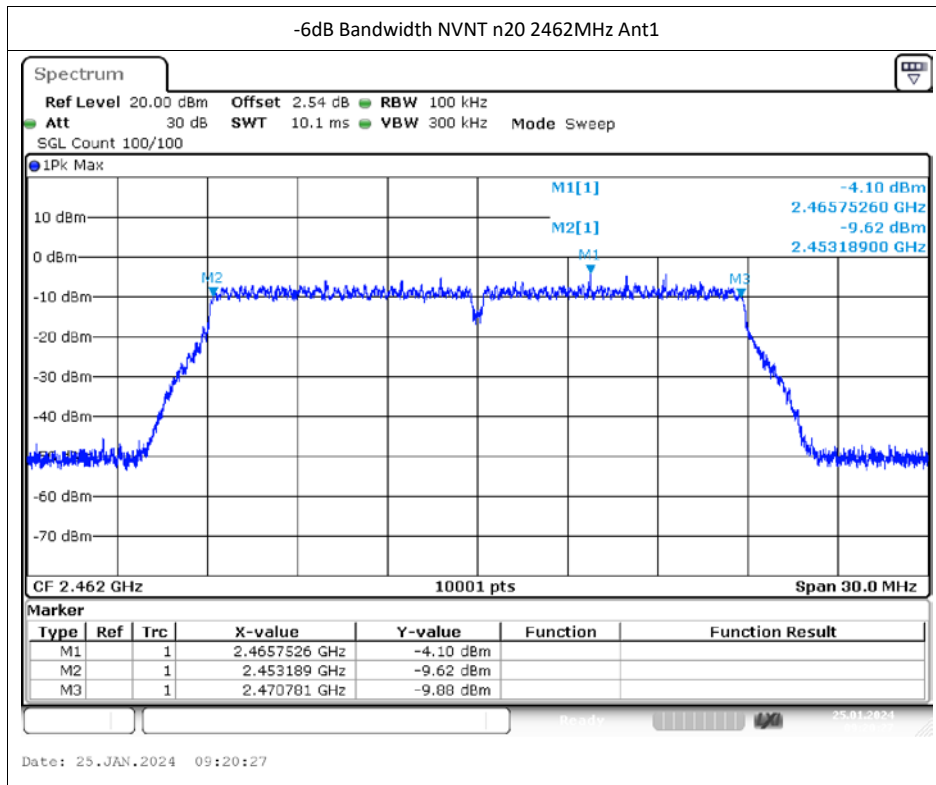
-6dB Bandwidth NVNT b 2437MHz Ant1





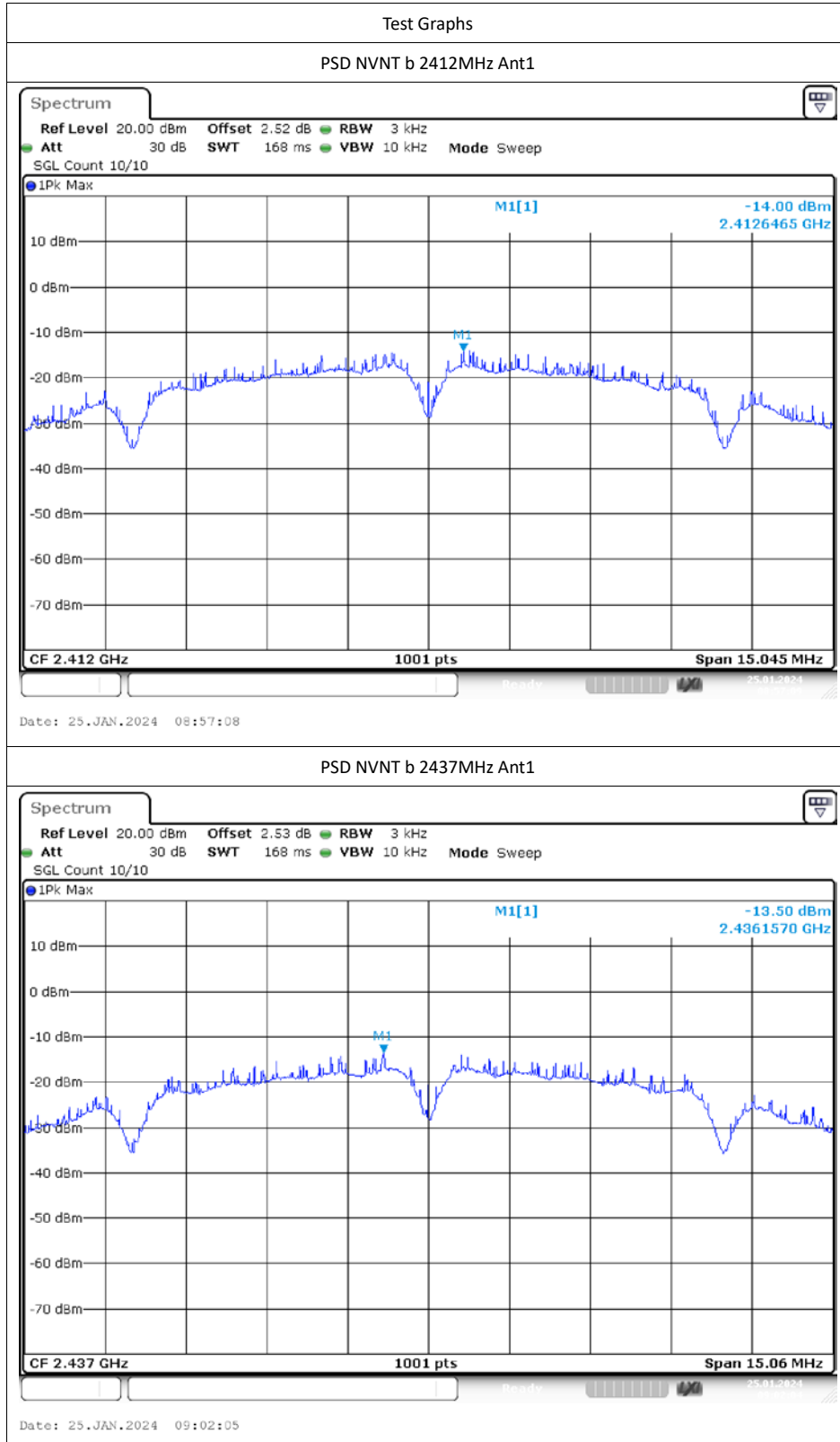


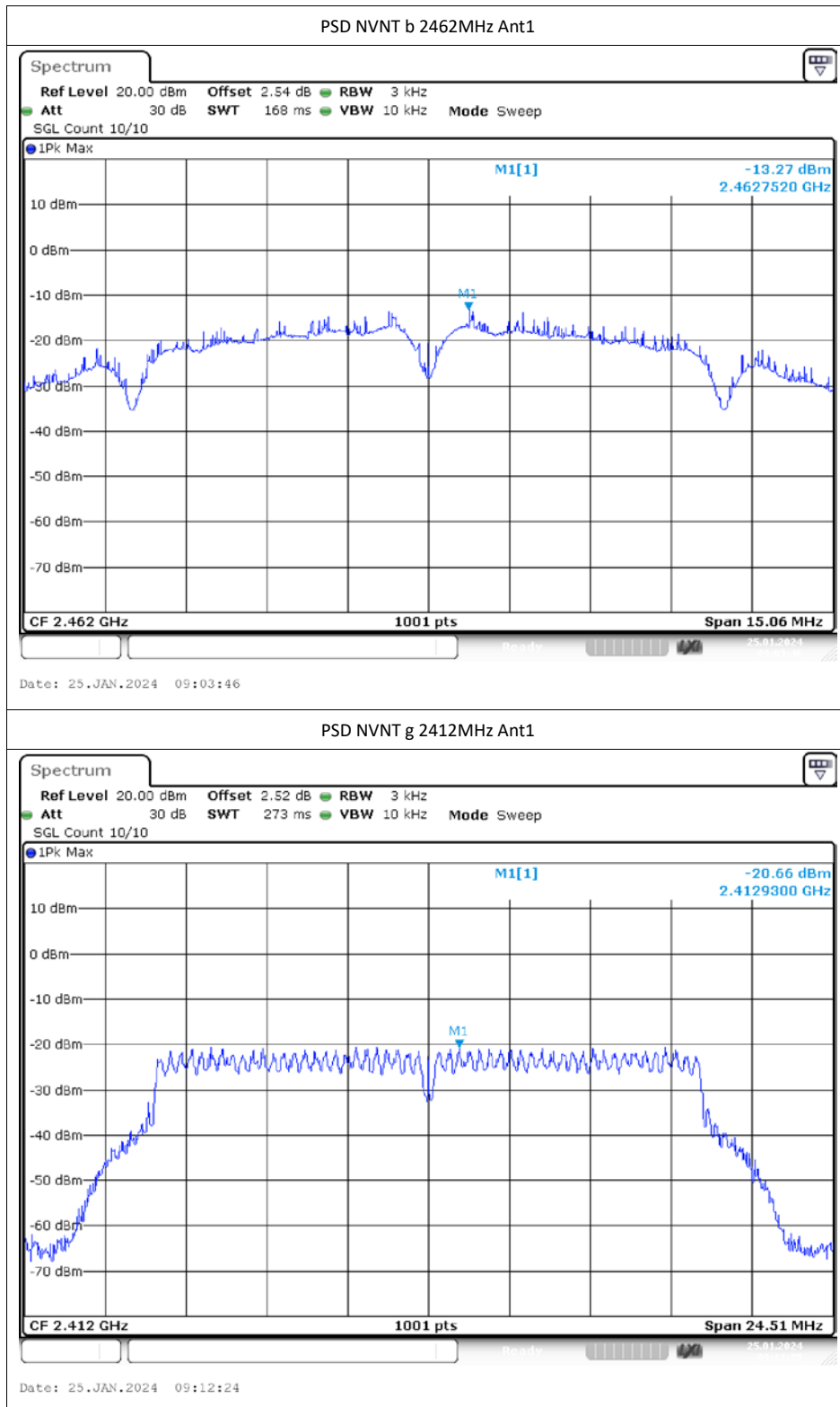


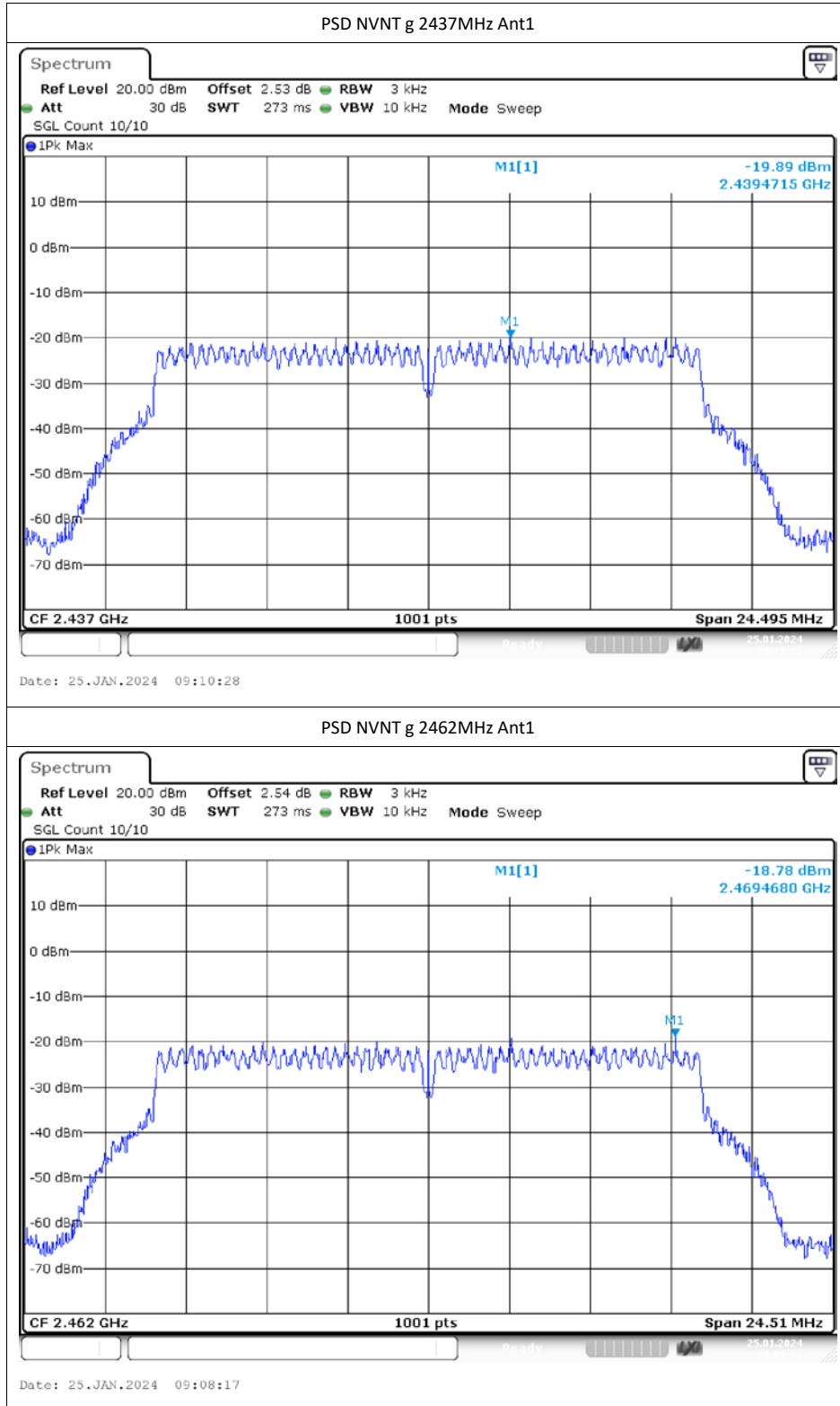


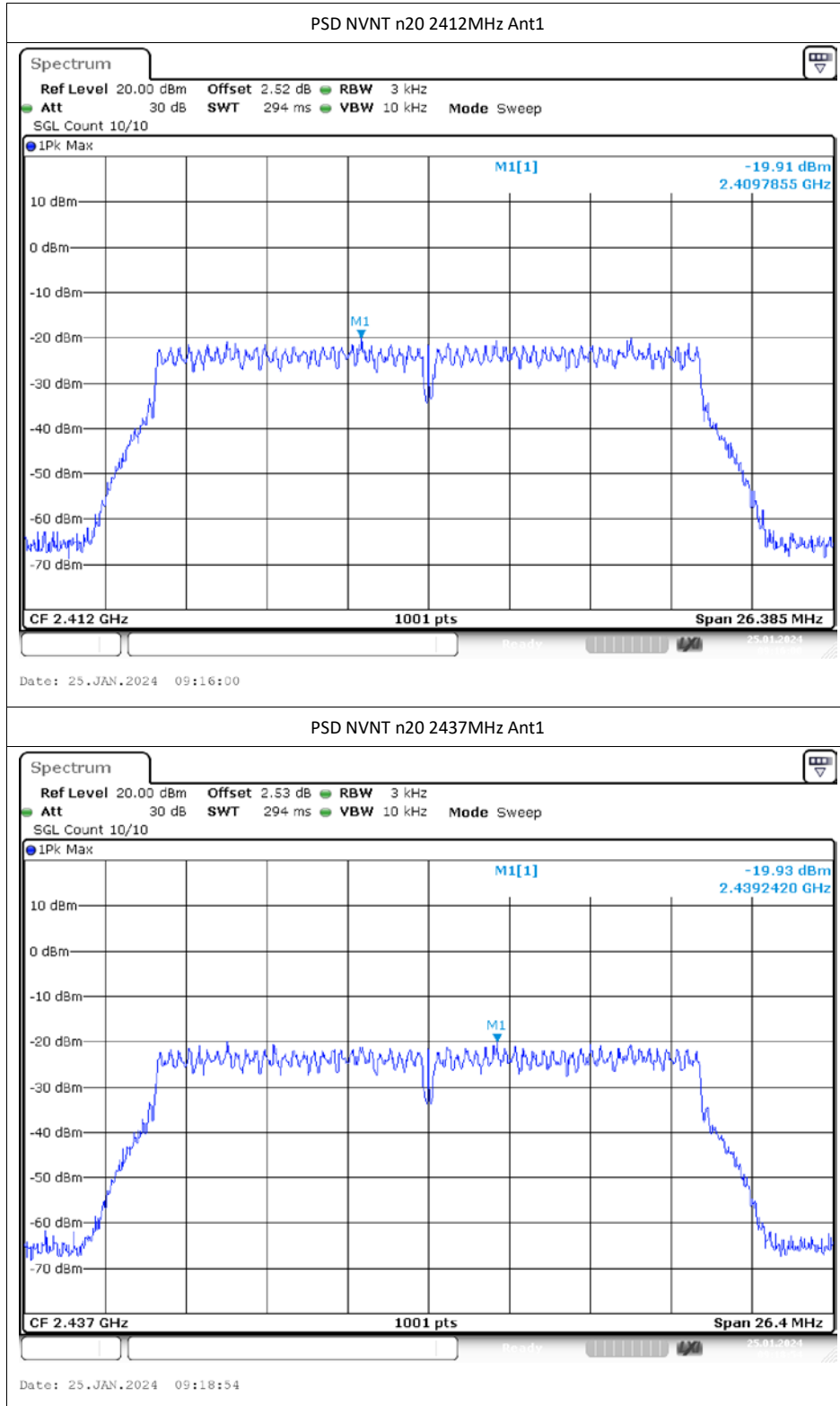
7.3 Maximum Power Spectral Density Level

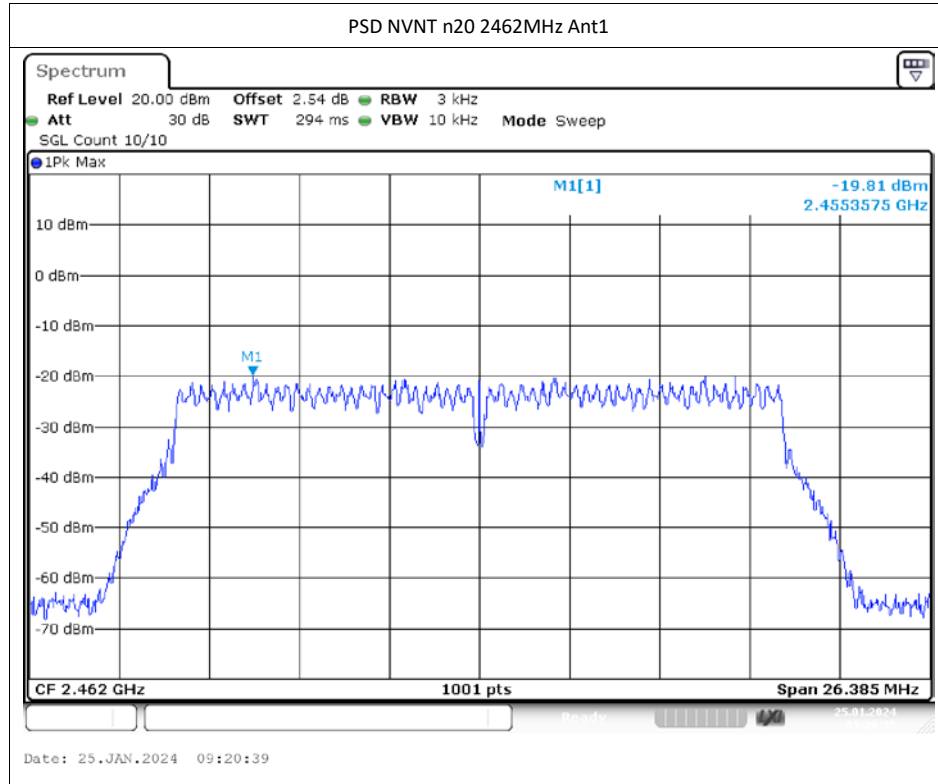
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14	0	-14	8	Pass
NVNT	b	2437	Ant1	-13.5	0	-13.5	8	Pass
NVNT	b	2462	Ant1	-13.27	0	-13.27	8	Pass
NVNT	g	2412	Ant1	-20.66	0	-20.66	8	Pass
NVNT	g	2437	Ant1	-19.89	0	-19.89	8	Pass
NVNT	g	2462	Ant1	-18.78	0	-18.78	8	Pass
NVNT	n20	2412	Ant1	-19.91	0	-19.91	8	Pass
NVNT	n20	2437	Ant1	-19.93	0	-19.93	8	Pass
NVNT	n20	2462	Ant1	-19.81	0	-19.81	8	Pass





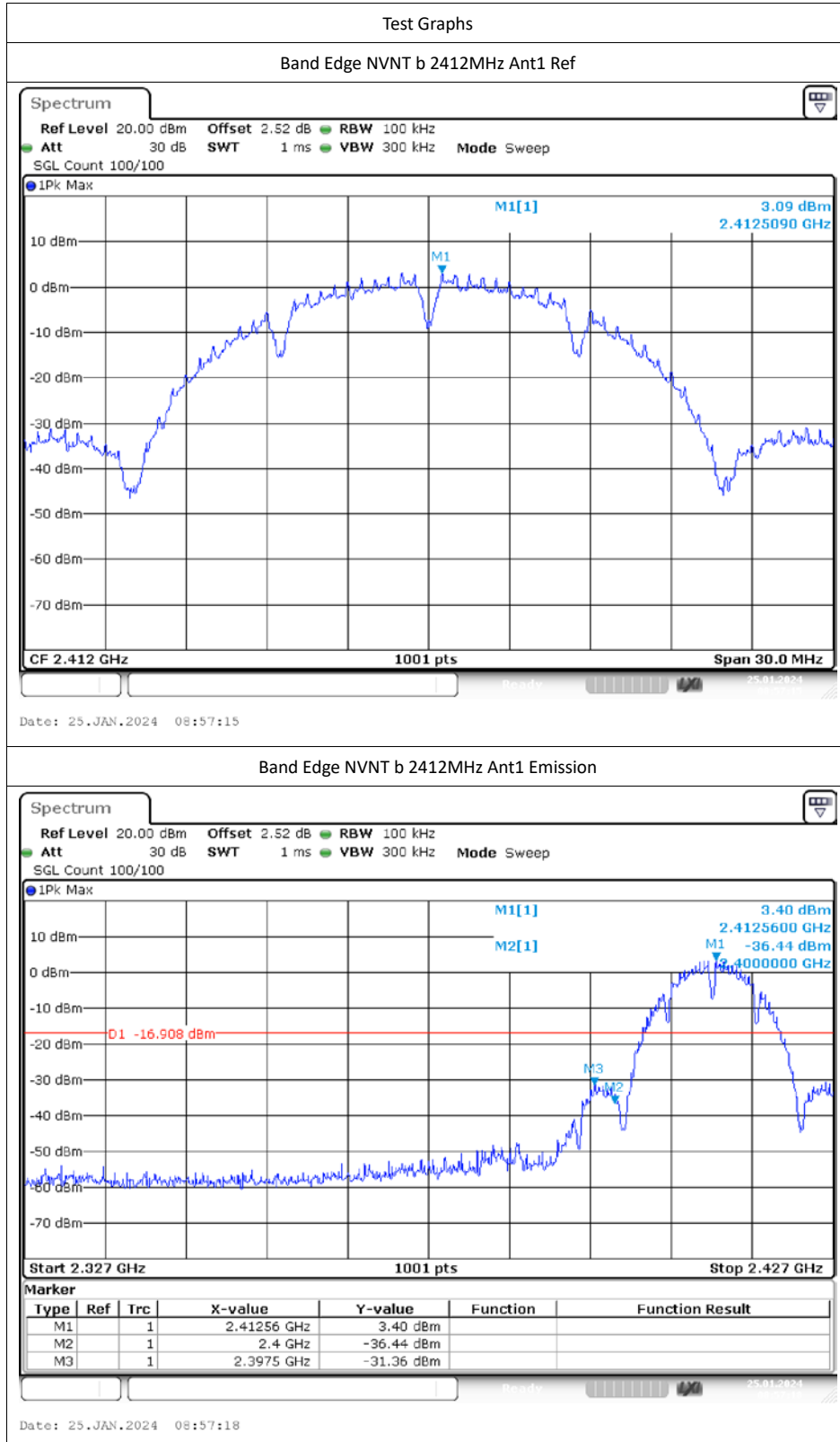


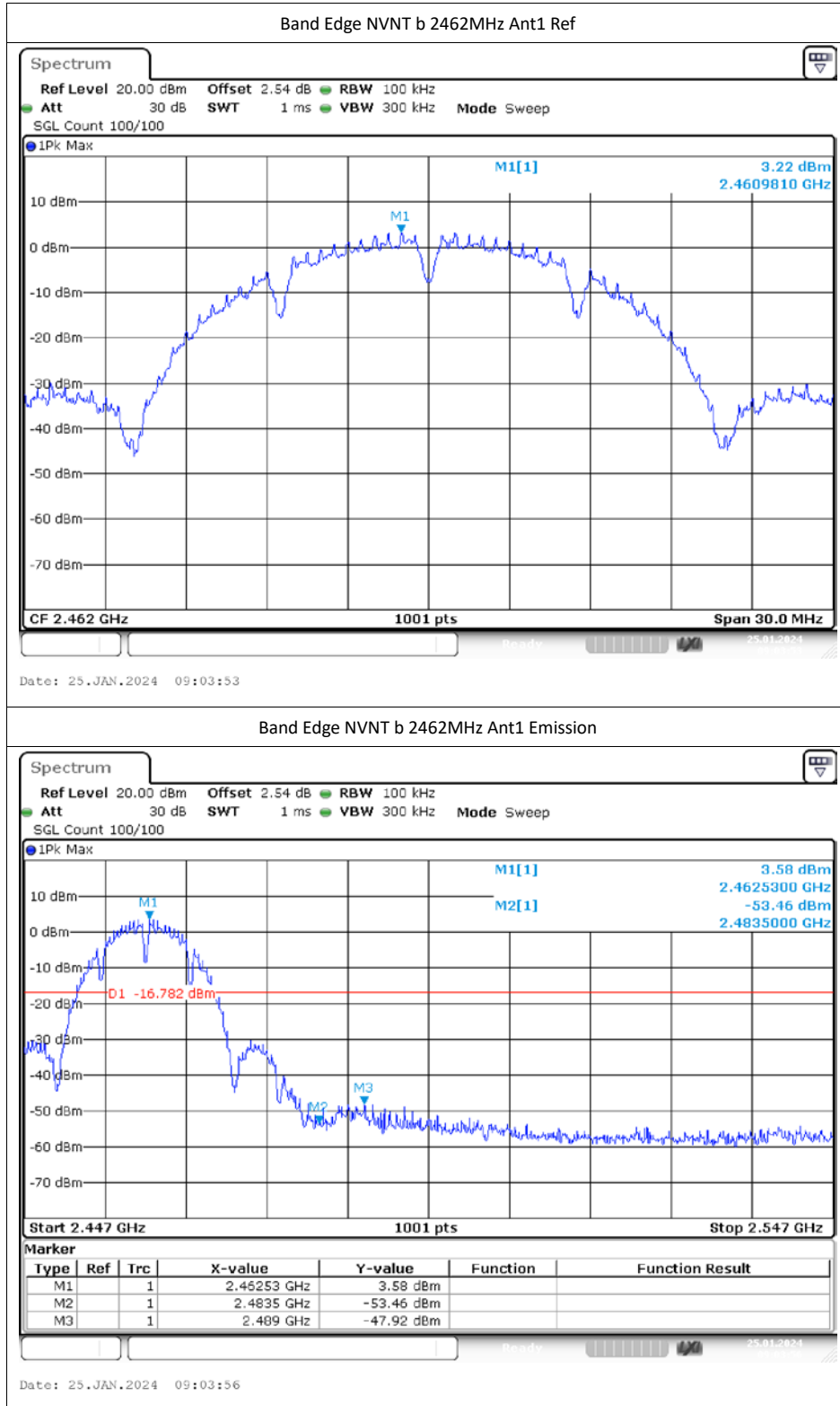


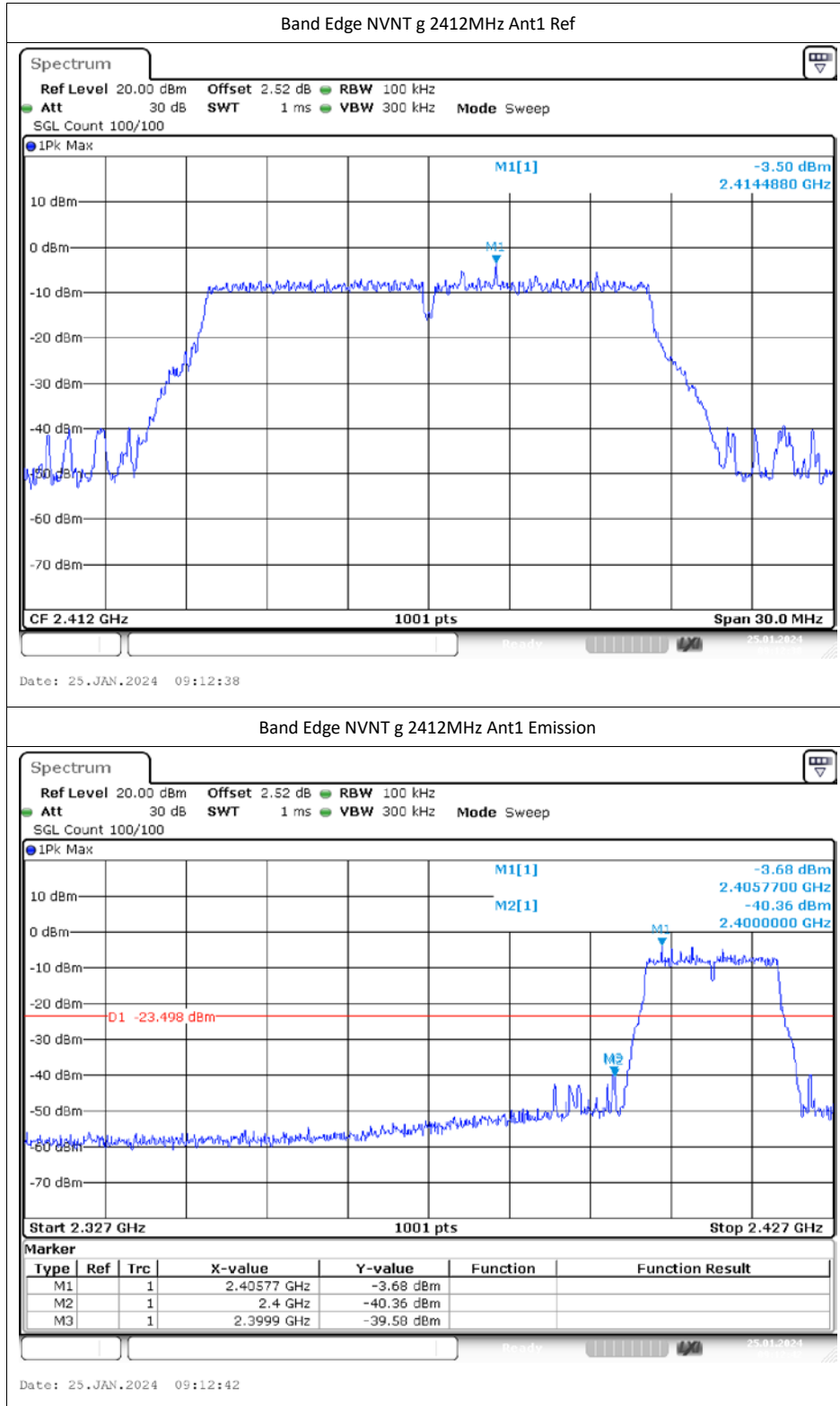


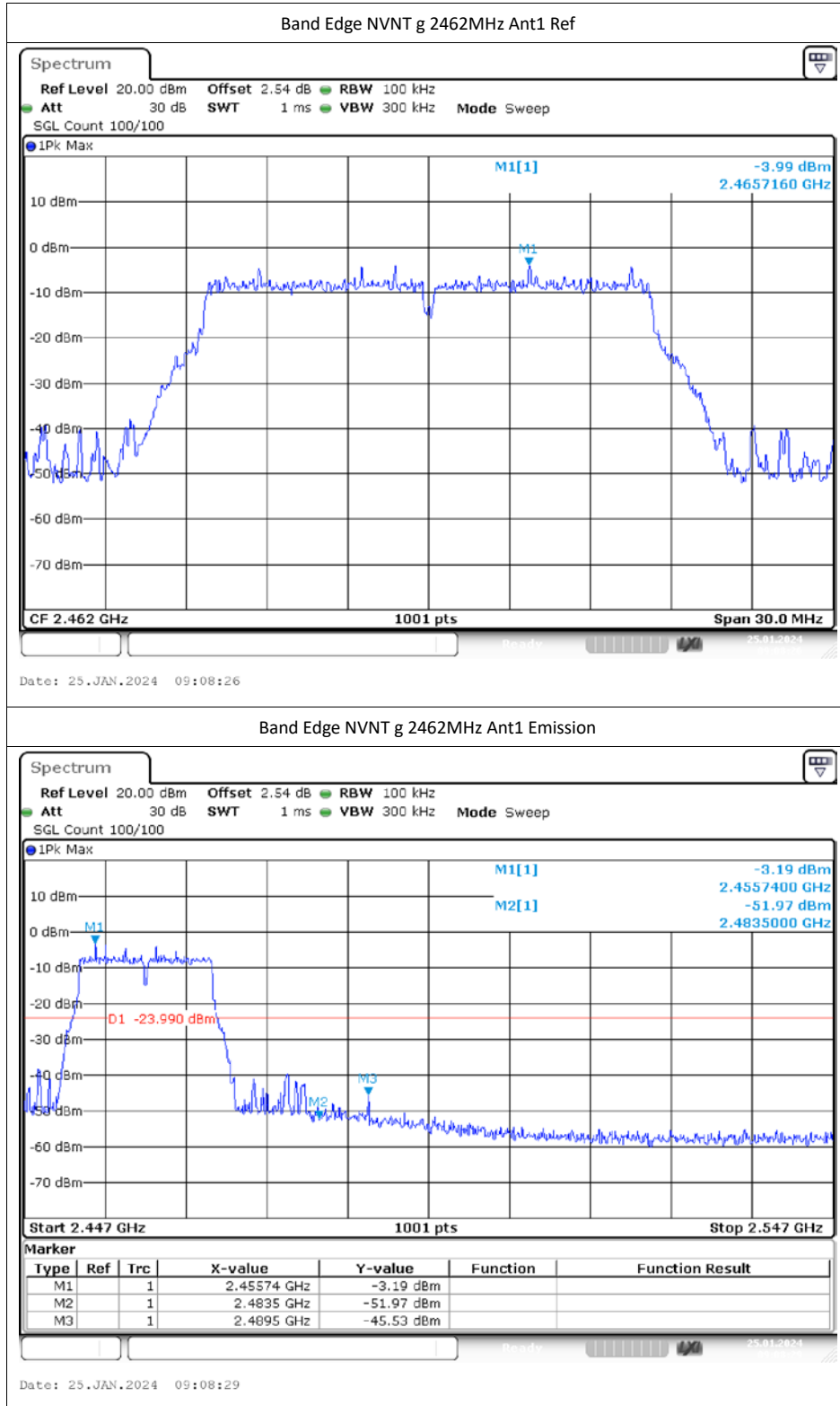
7.4 Band Edge

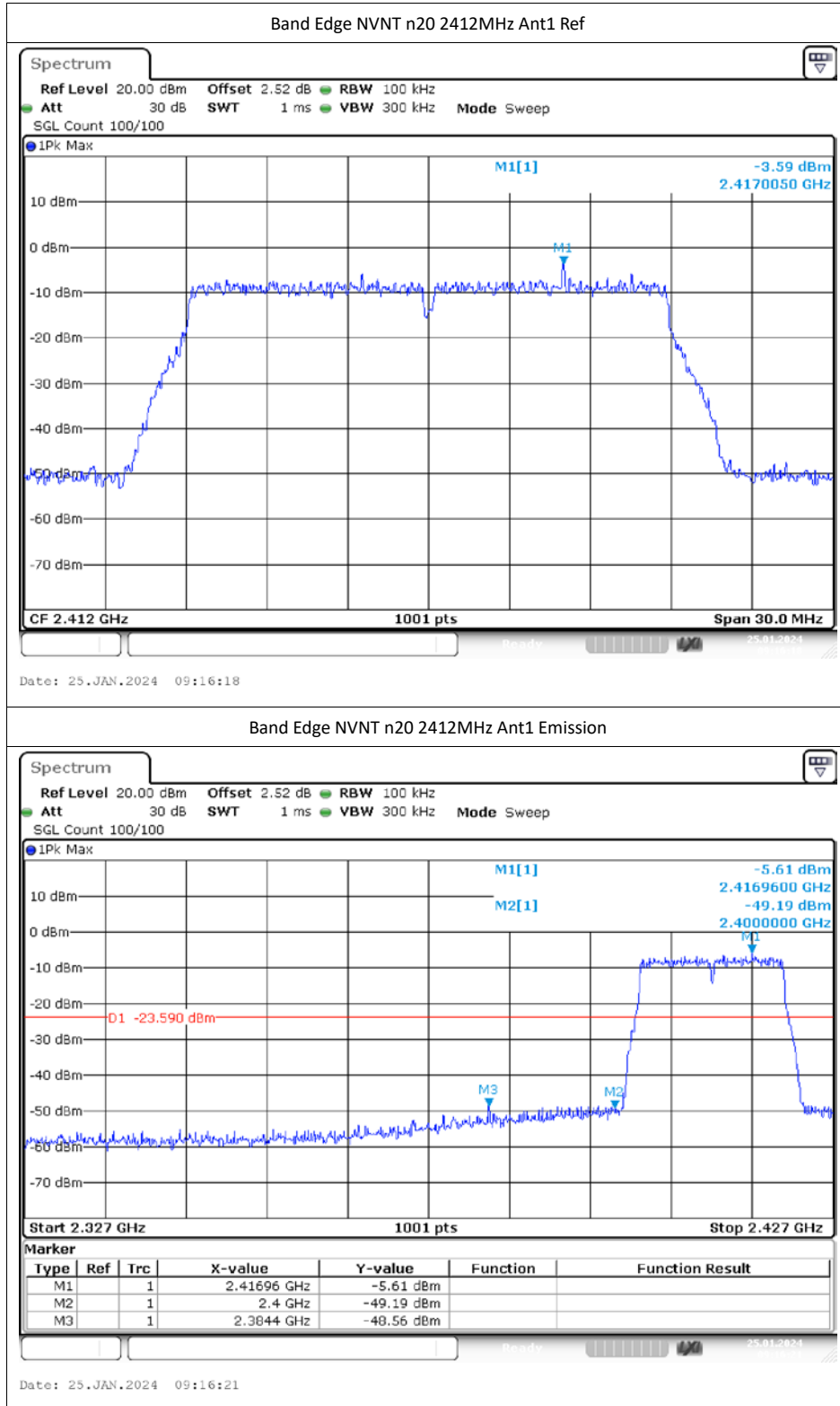
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-34.45	-20	Pass
NVNT	b	2462	Ant1	-51.14	-20	Pass
NVNT	g	2412	Ant1	-36.08	-20	Pass
NVNT	g	2462	Ant1	-41.54	-20	Pass
NVNT	n20	2412	Ant1	-44.97	-20	Pass
NVNT	n20	2462	Ant1	-45.35	-20	Pass

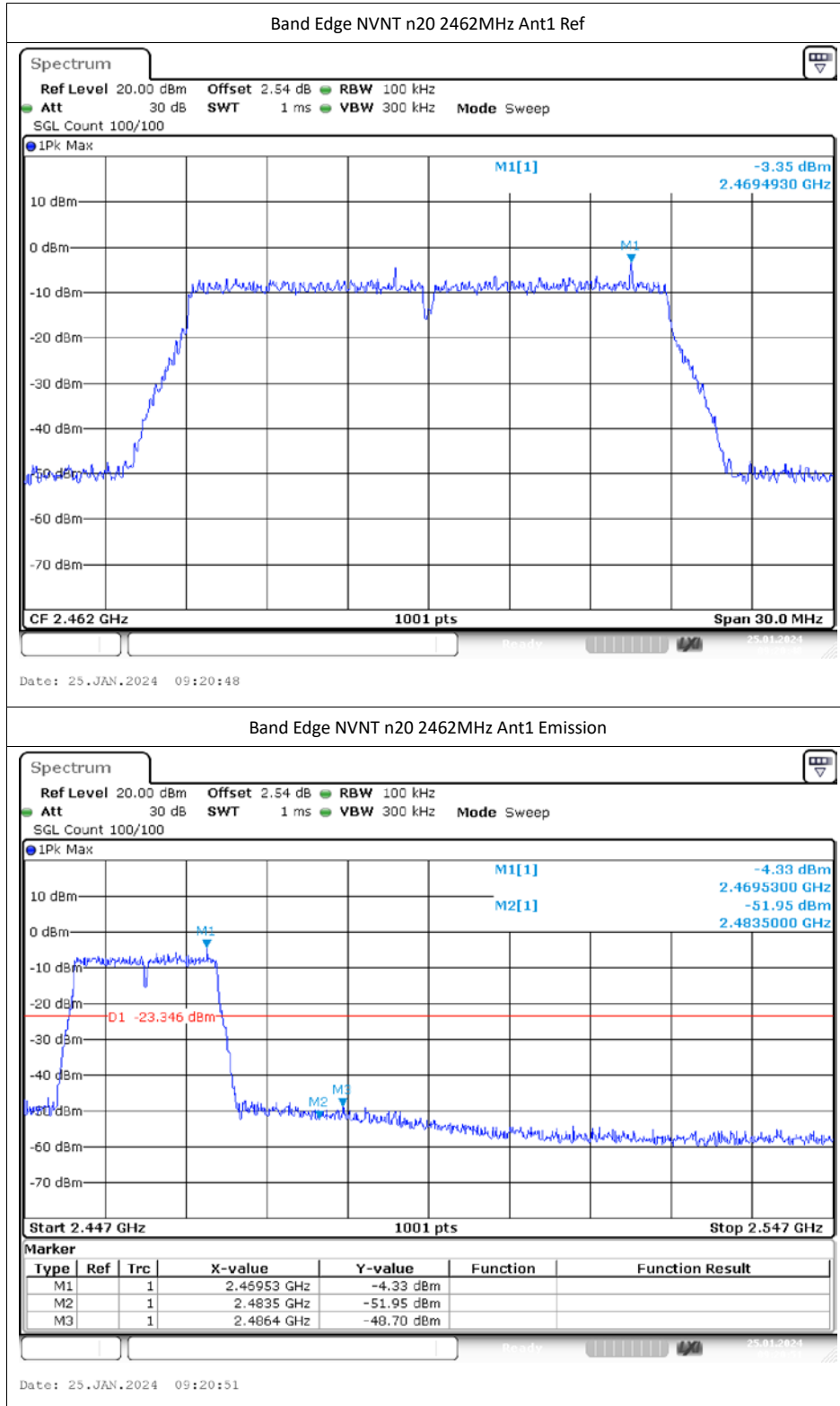










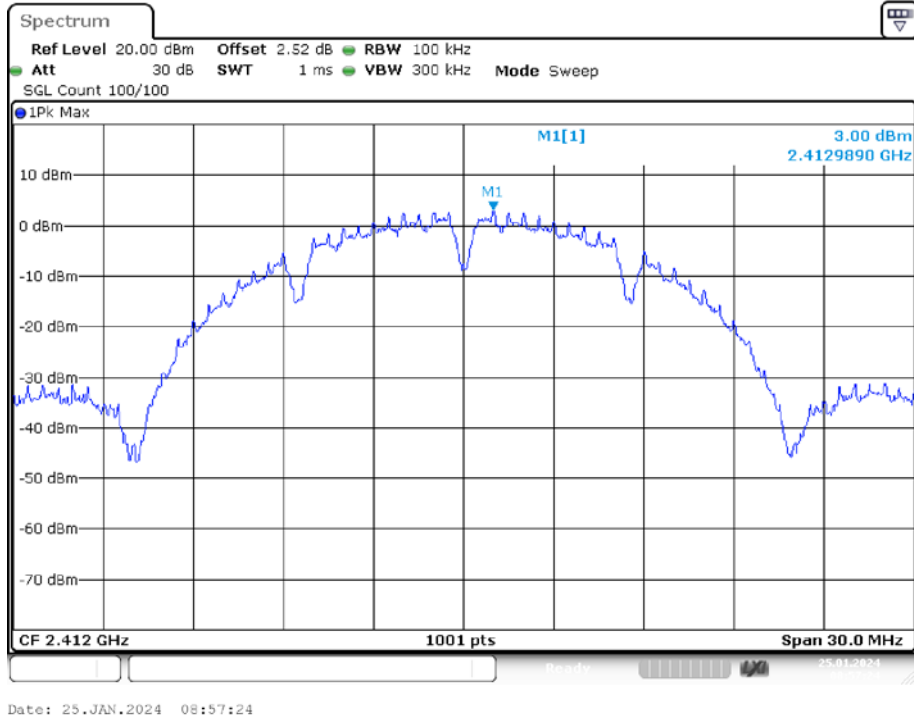


Conducted RF Spurious Emission

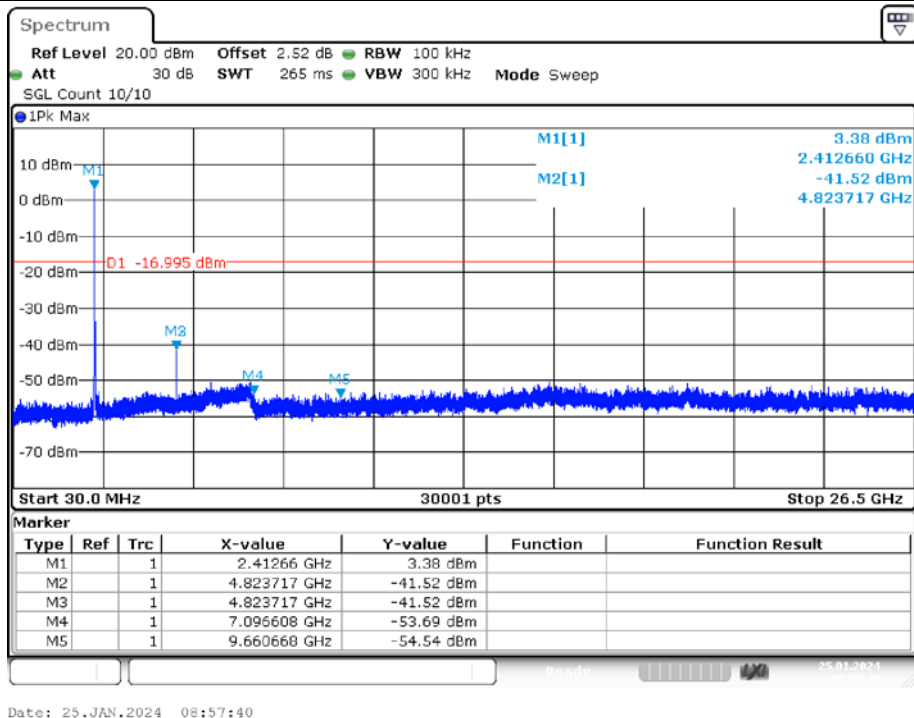
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.52	-20	Pass
NVNT	b	2437	Ant1	-45.42	-20	Pass
NVNT	b	2462	Ant1	-46.42	-20	Pass
NVNT	g	2412	Ant1	-45.31	-20	Pass
NVNT	g	2437	Ant1	-46.96	-20	Pass
NVNT	g	2462	Ant1	-46	-20	Pass
NVNT	n20	2412	Ant1	-46.01	-20	Pass
NVNT	n20	2437	Ant1	-46.03	-20	Pass
NVNT	n20	2462	Ant1	-44.89	-20	Pass

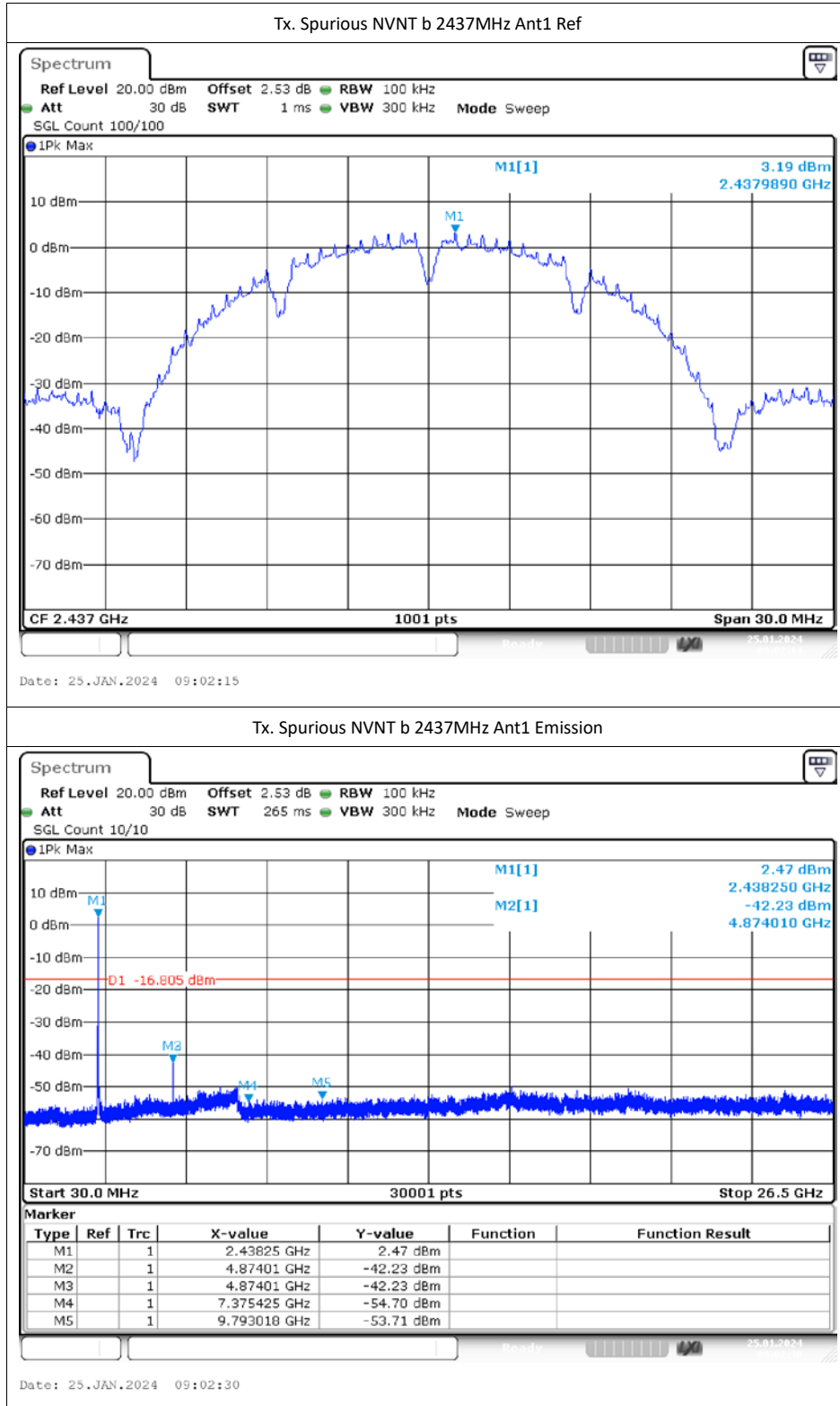
Test Graphs

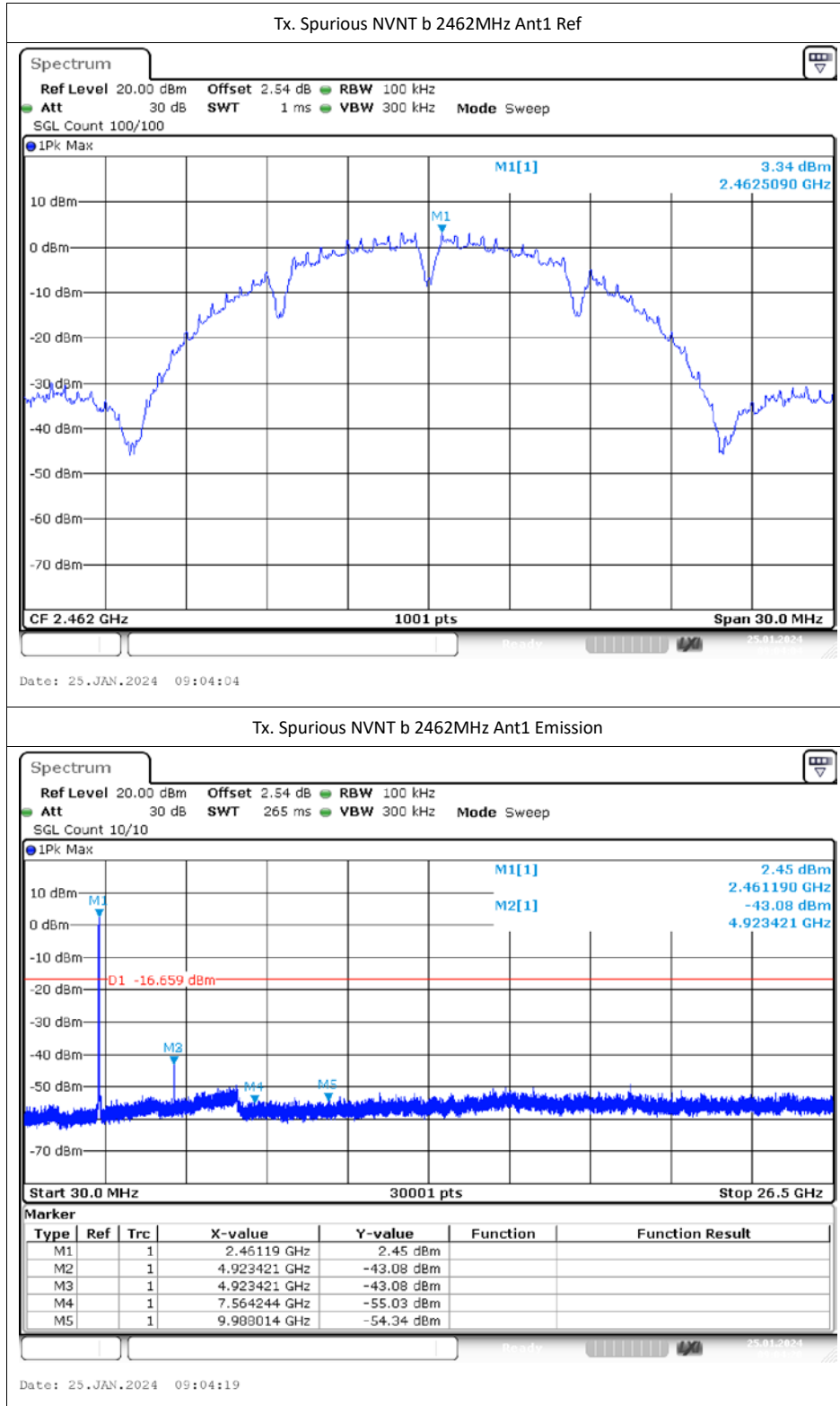
Tx. Spurious NVNT b 2412MHz Ant1 Ref

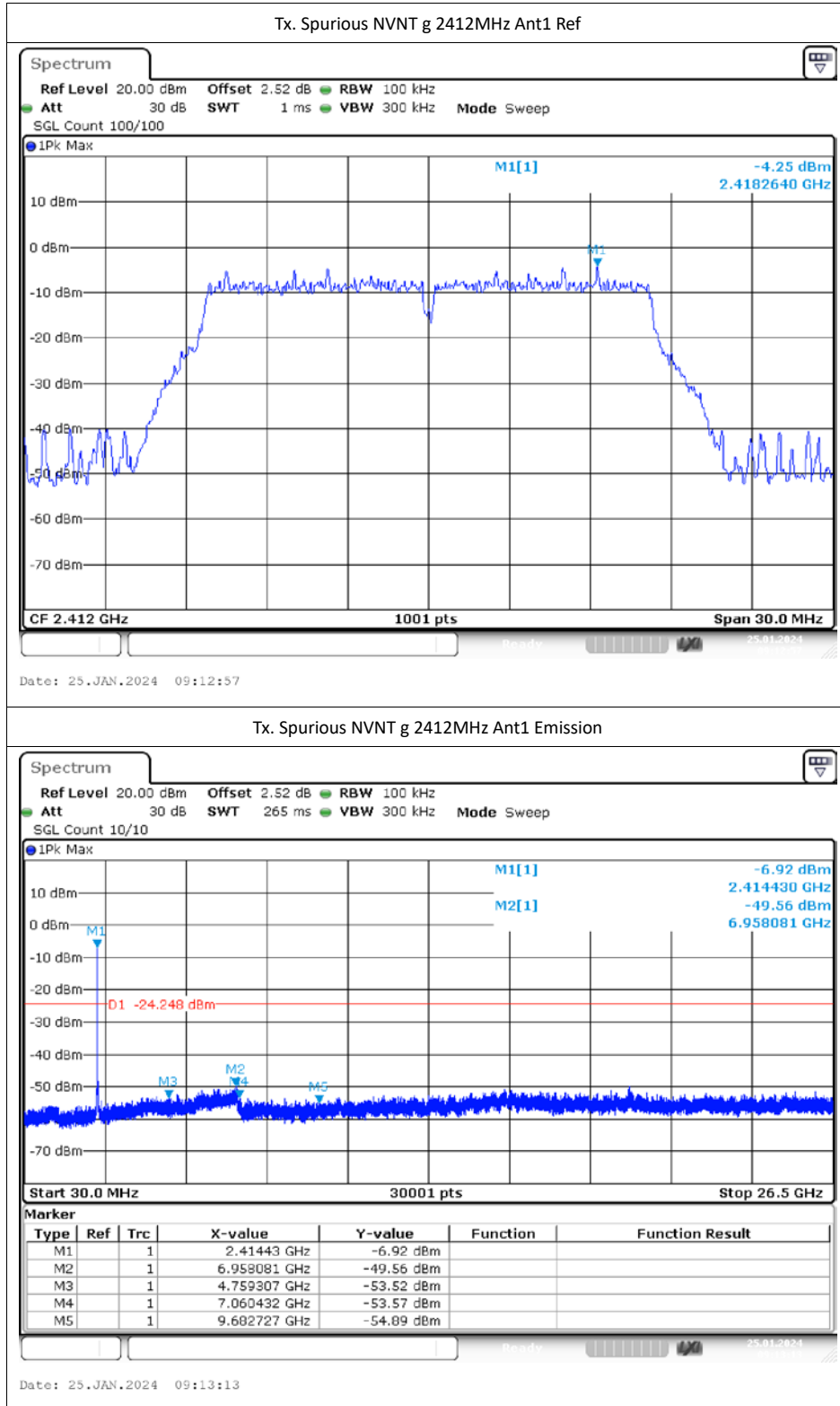


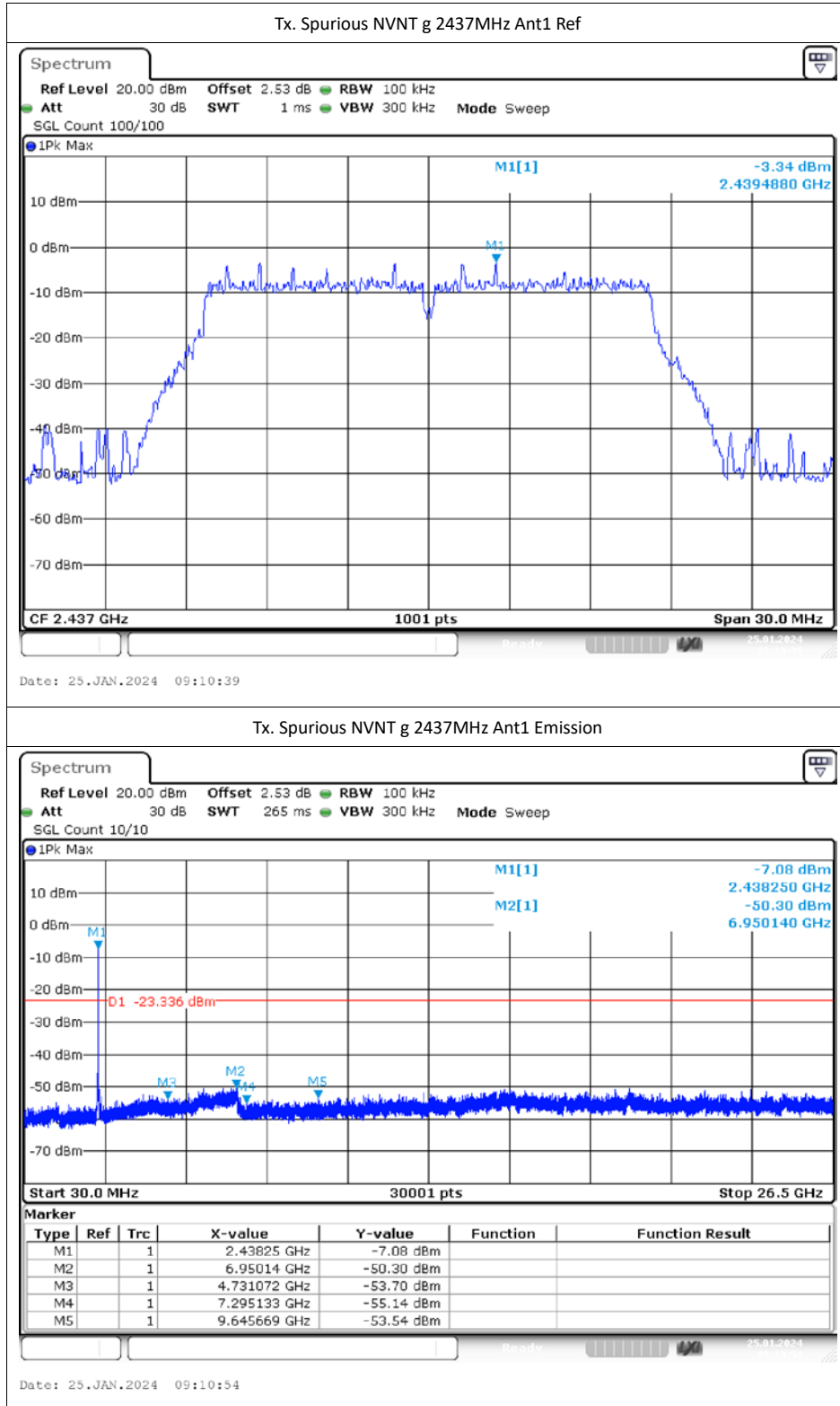
Tx. Spurious NVNT b 2412MHz Ant1 Emission

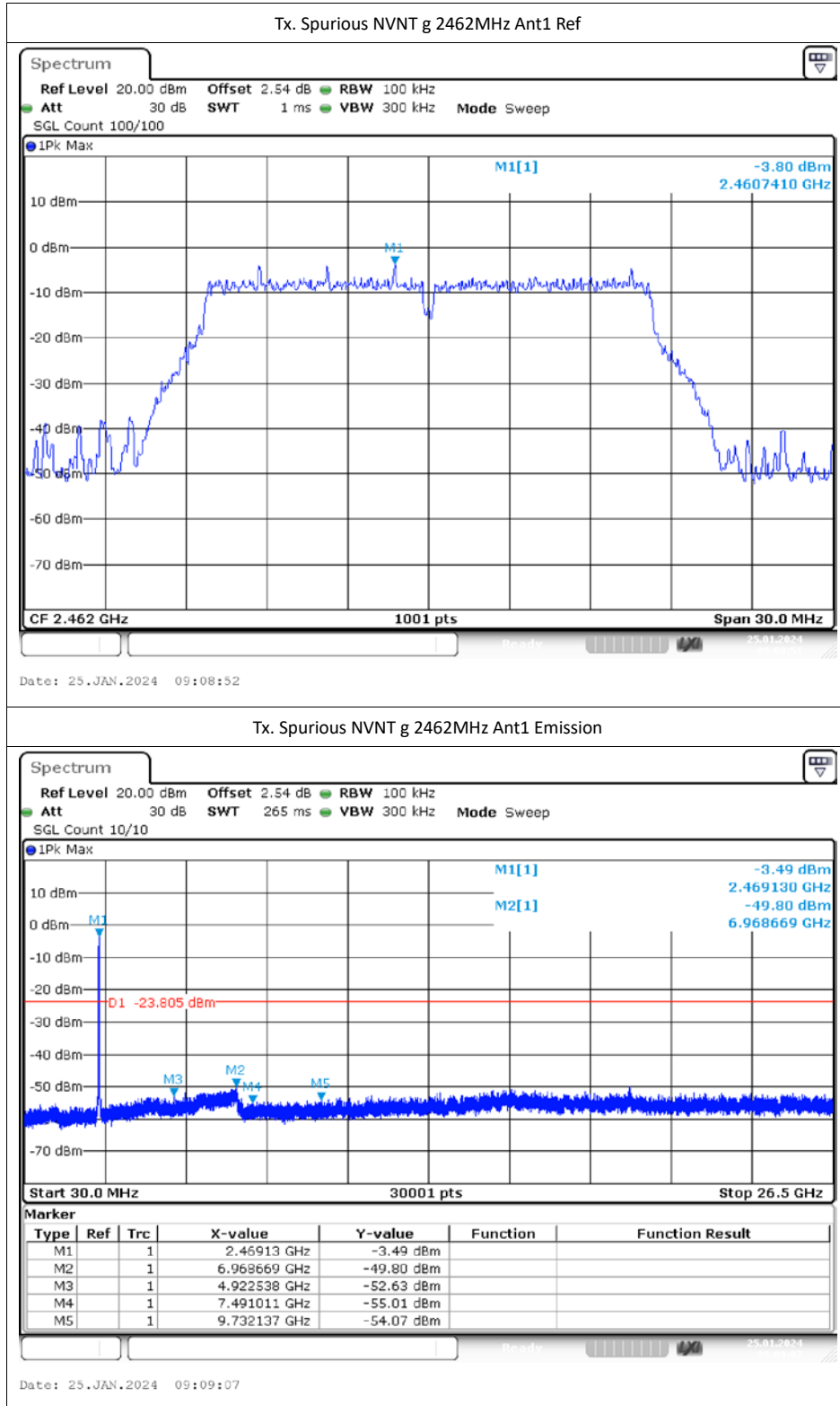


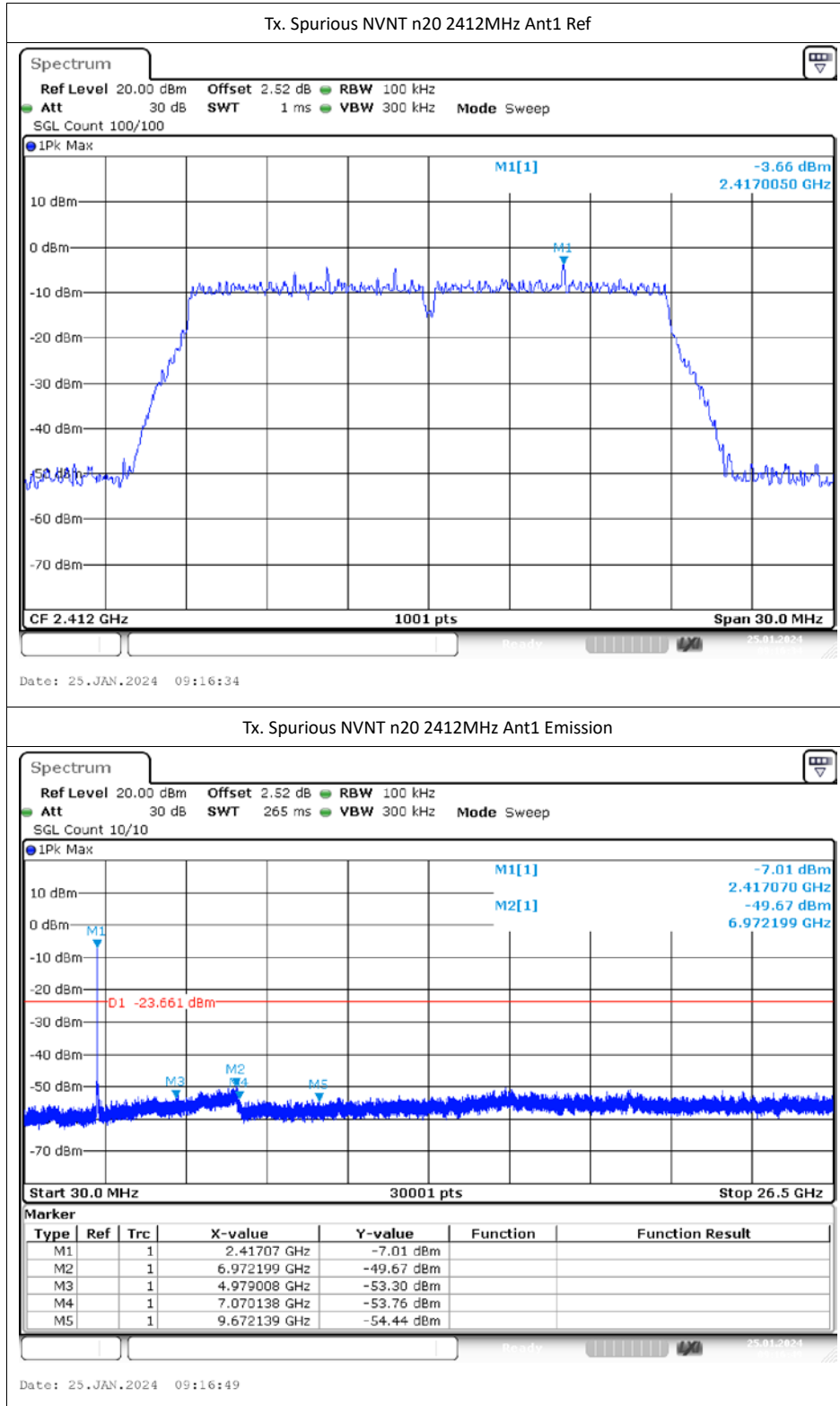


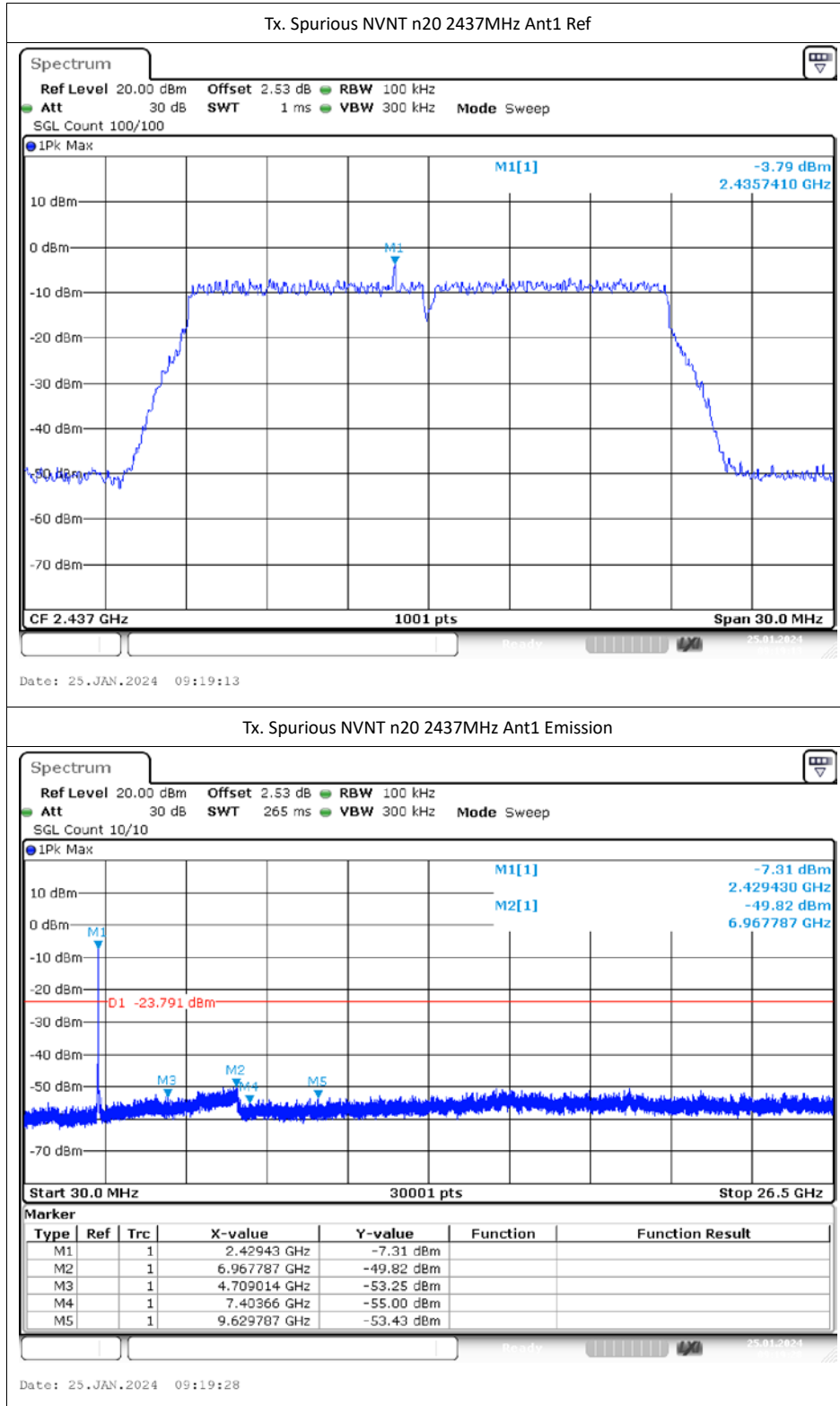


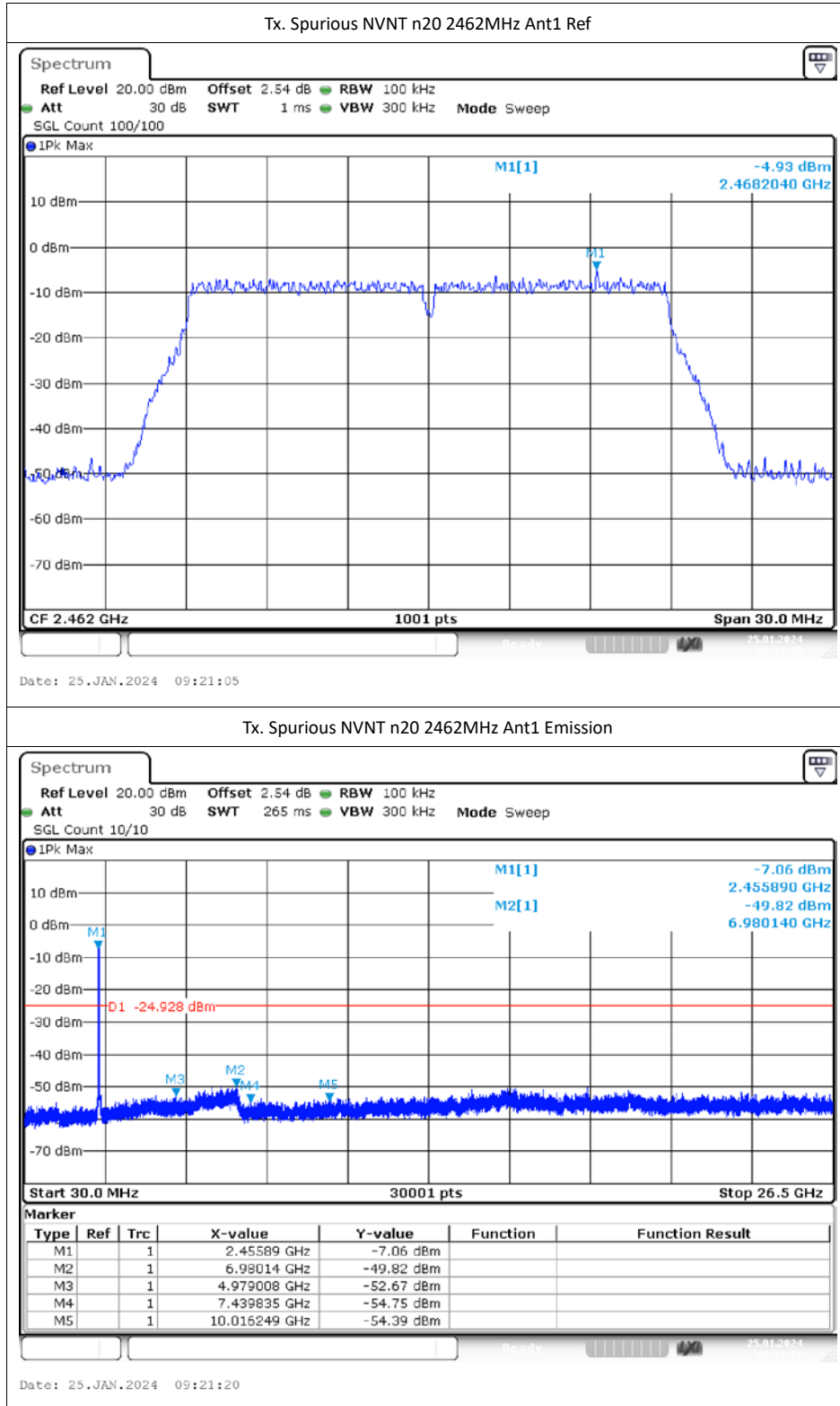












7.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	8.39	8.45	99.29	0	0.12	1
NVNT	b	2437	Ant1	8.39	8.45	99.29	0	0.12	1
NVNT	b	2462	Ant1	8.39	8.45	99.29	0	0.12	1
NVNT	g	2412	Ant1	1.39	1.46	95.21	0.21	0.72	1
NVNT	g	2437	Ant1	1.39	1.46	95.21	0.21	0.72	1
NVNT	g	2462	Ant1	1.39	1.46	95.21	0.21	0.72	1
NVNT	n20	2412	Ant1	5.08	5.15	98.64	0	0.2	1
NVNT	n20	2437	Ant1	5.09	5.15	98.83	0	0.2	1
NVNT	n20	2462	Ant1	5.08	5.15	98.64	0	0.2	1

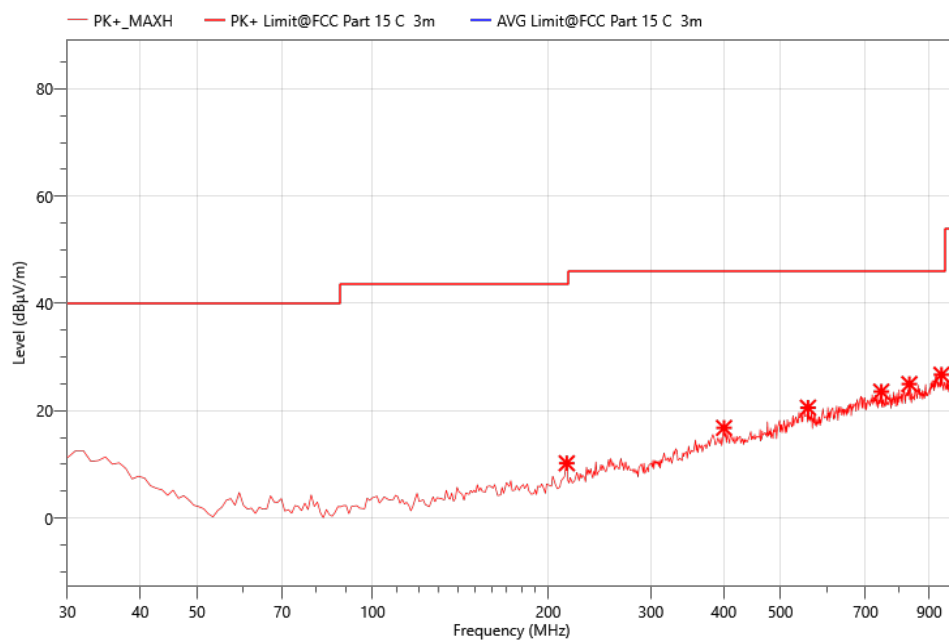
8. RADIATED TEST RESULTS

The data of the mode (802.11b 2412MHz) are recorded in the following pages.

The worst result as below:

DateTime: 2024-01-25 22:36:59

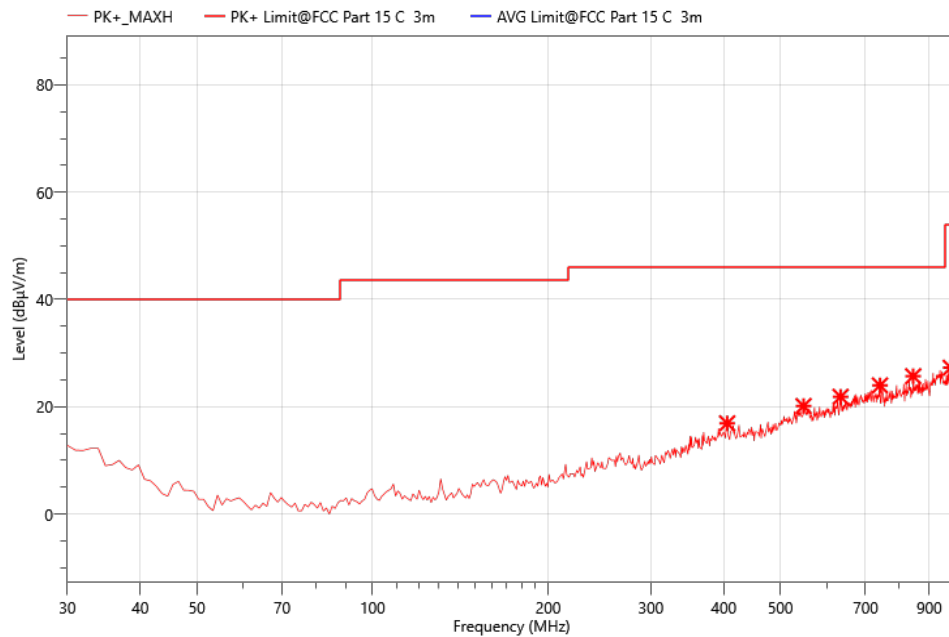
Mode:	FCC 2.4G WIFI 2412MHz
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	215.270	31.19	-21	10.19	43.50	33.31	PK+	V
2	400.540	30.71	-13.92	16.79	46.00	29.21	PK+	V
3	557.680	30.72	-10.16	20.56	46.00	25.44	PK+	V
4	744.890	30.73	-7.17	23.56	46.00	22.44	PK+	V
5	832.190	30.79	-5.83	24.96	46.00	21.04	PK+	V
6	944.710	30.03	-3.33	26.70	46.00	19.30	PK+	V

Mode:	FCC 2.4G WIFI 2412
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	405.390	30.61	-13.71	16.90	46.00	29.10	PK+	H
2	547.980	29.94	-9.82	20.12	46.00	25.88	PK+	H
3	634.310	30.78	-8.93	21.85	46.00	24.15	PK+	H
4	741.010	31.02	-7.05	23.97	46.00	22.03	PK+	H
5	844.800	31.47	-5.79	25.68	46.00	20.32	PK+	H
6	979.630	30.87	-3.61	27.26	53.90	26.64	PK+	H

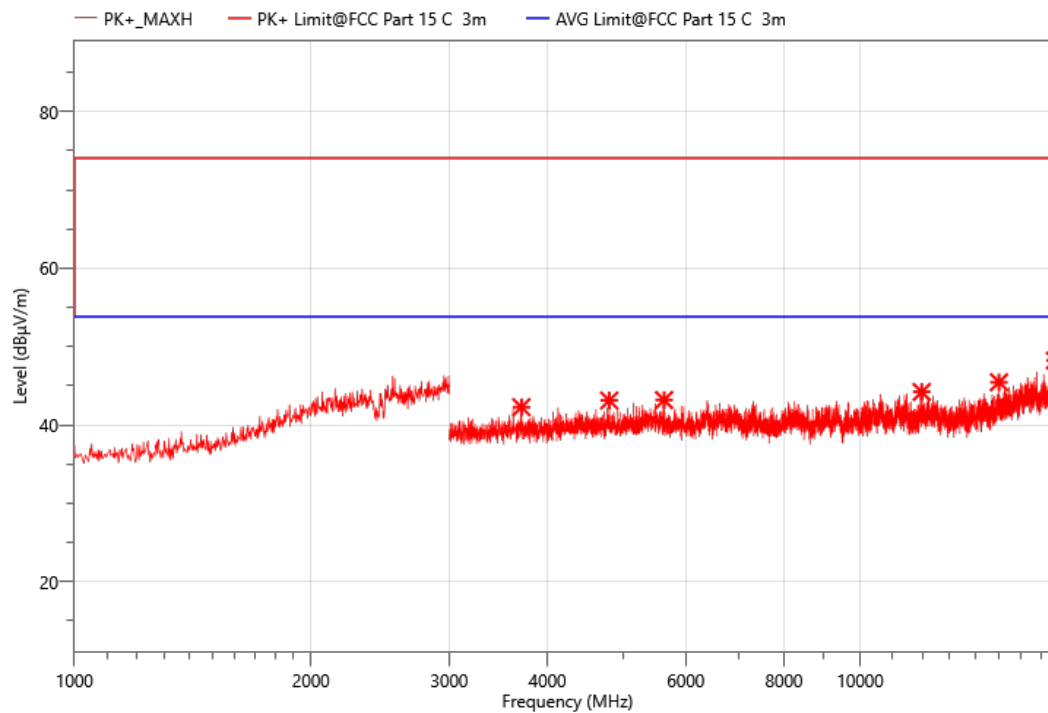
Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

Above 1000MHz~10th Harmonics:

The worst result as bellow:

DateTime: 2024-01-25 22:28:39

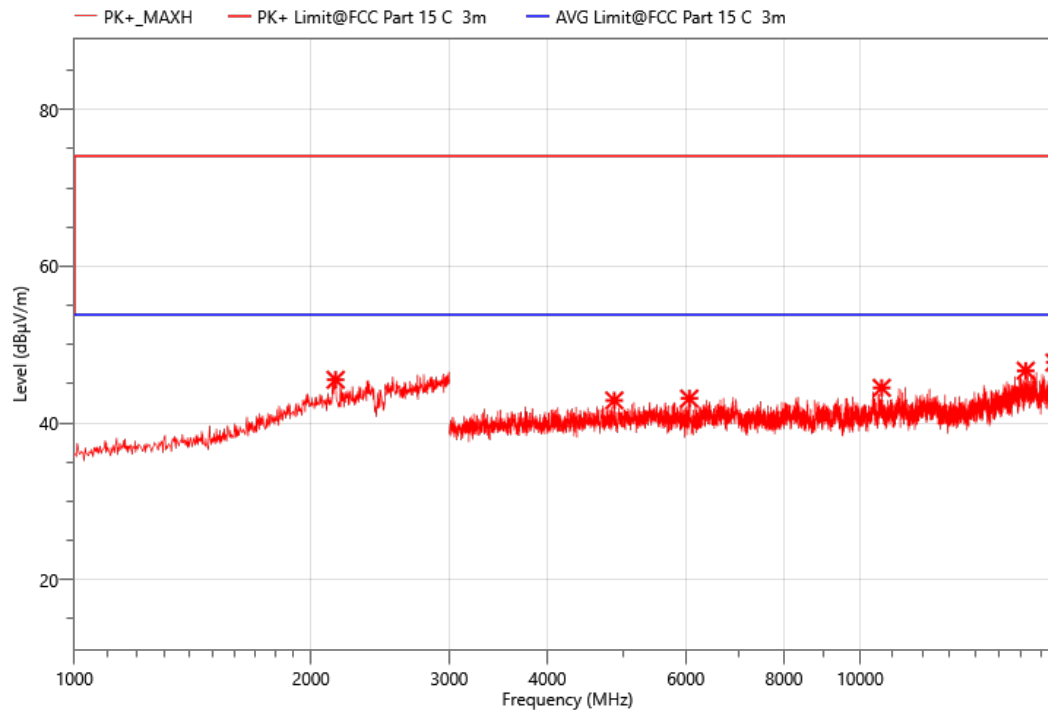
Mode:	2.4G WIFI TX 2412 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pressure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	3706.500	55.87	-13.59	42.28	74.00	31.72	PK+	V
2	4794.000	54.43	-11.3	43.13	74.00	30.87	PK+	V
3	5629.500	52.40	-9.21	43.19	74.00	30.81	PK+	V
4	11979.000	48.70	-4.48	44.22	74.00	29.78	PK+	V
5	15025.500	48.28	-2.82	45.46	74.00	28.54	PK+	V
6	17701.500	48.09	0.14	48.23	74.00	25.77	PK+	V

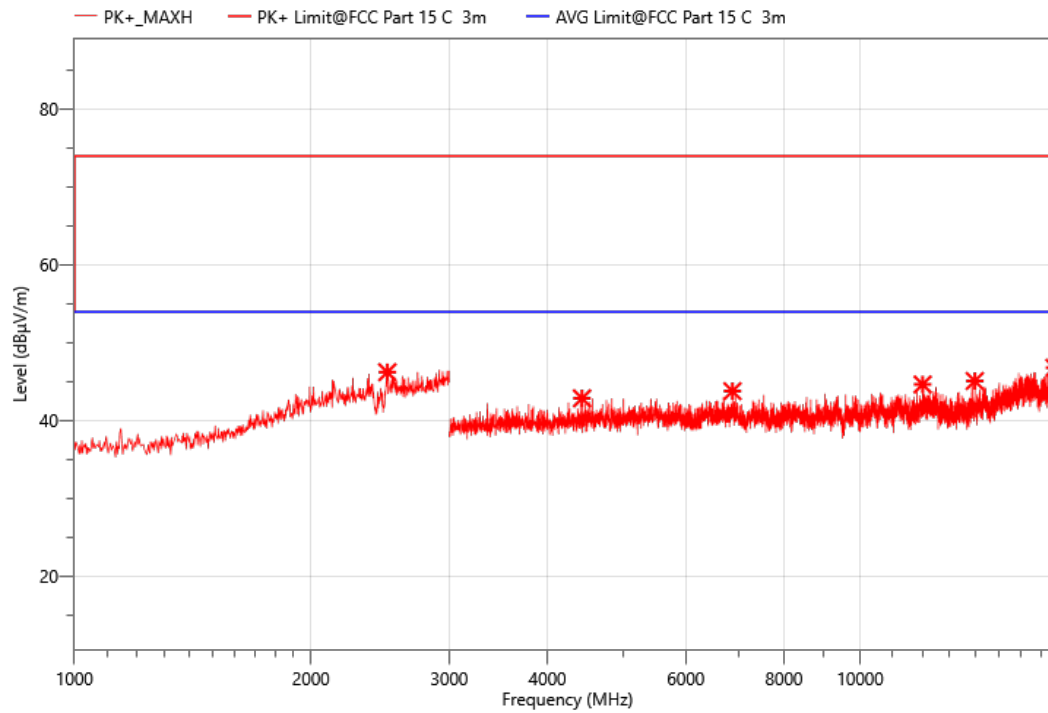
Mode:	2.4G WIFI TX 2412 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2150.000	54.57	-9.05	45.52	74.00	28.48	PK+	H
2	4866.000	54.06	-11.18	42.88	74.00	31.12	PK+	H
3	6061.500	51.09	-7.97	43.12	74.00	30.88	PK+	H
4	10653.000	49.80	-5.32	44.48	74.00	29.52	PK+	H
5	16246.500	47.21	-0.53	46.68	74.00	27.32	PK+	H
6	17682.000	47.44	0.28	47.72	74.00	26.28	PK+	H

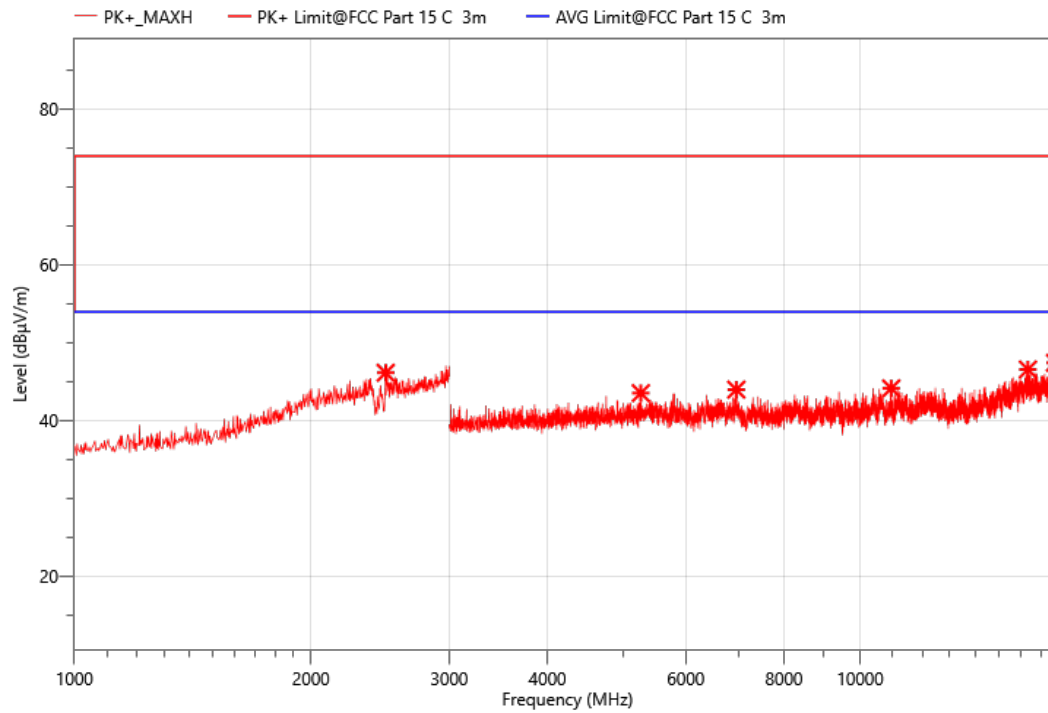
Mode:	2.4G WIFI TX 2437 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2502.000	54.63	-8.41	46.22	74.00	27.78	PK+	H
2	4426.500	54.91	-12.05	42.86	74.00	31.14	PK+	H
3	6879.000	51.96	-8.18	43.78	74.00	30.22	PK+	H
4	12010.500	49.29	-4.65	44.64	74.00	29.36	PK+	H
5	13993.500	48.66	-3.57	45.09	74.00	28.91	PK+	H
6	17677.500	46.49	0.3	46.79	74.00	27.21	PK+	H

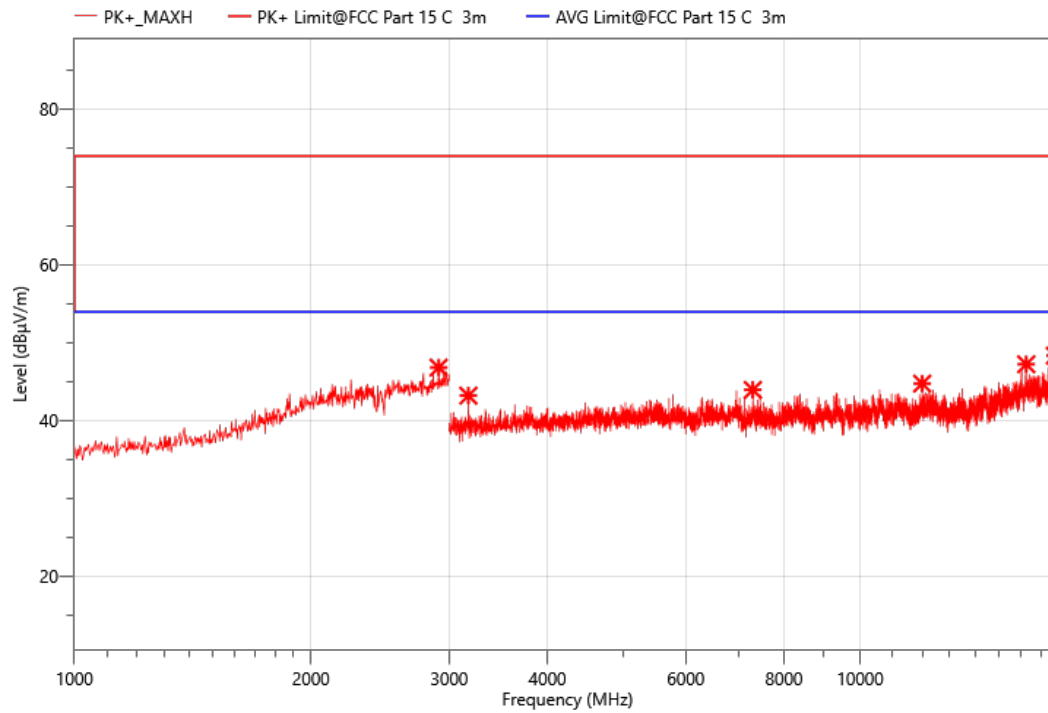
Mode:	2.4G WIFI TX 2437 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2490.000	54.57	-8.42	46.15	74.00	27.85	PK+	V
2	5259.000	53.73	-10.2	43.53	74.00	30.47	PK+	V
3	6957.000	51.85	-7.87	43.98	74.00	30.02	PK+	V
4	10953.000	49.02	-4.88	44.14	74.00	29.86	PK+	V
5	16351.500	48.25	-1.68	46.57	74.00	27.43	PK+	V
6	17704.500	47.34	0.08	47.42	74.00	26.58	PK+	V

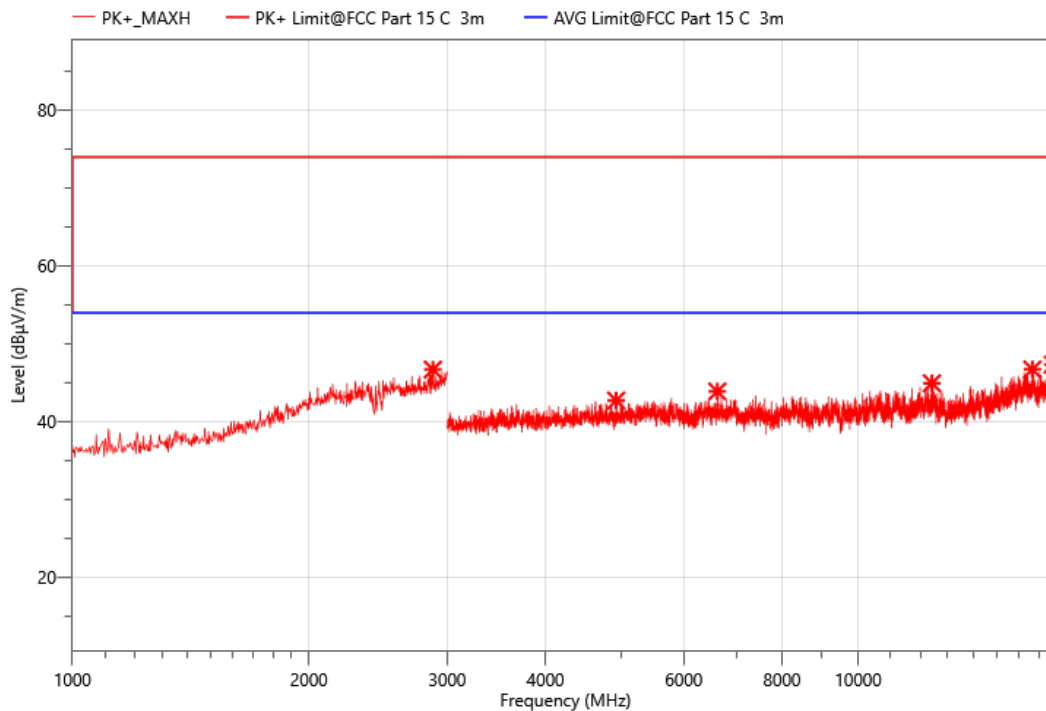
Mode:	2.4G WIFI TX 2462 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2908.000	54.51	-7.7	46.81	74.00	27.19	PK+	V
2	3172.500	58.03	-14.82	43.21	74.00	30.79	PK+	V
3	7302.000	51.57	-7.63	43.94	74.00	30.06	PK+	V
4	11995.500	49.00	-4.24	44.76	74.00	29.24	PK+	V
5	16272.000	48.42	-1.18	47.24	74.00	26.76	PK+	V
6	17701.500	48.21	0.14	48.35	74.00	25.65	PK+	V

Mode:	2.4G WIFI TX 2462 1-18G
Power:	DC 5V
TE:	Vier
Date:	2024-01-25
Humiture:	24°C 55%
Barometric Pessure	101.5



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2876.000	54.95	-8.27	46.68	74.00	27.32	PK+	H
2	4921.500	53.84	-11.13	42.71	74.00	31.29	PK+	H
3	6618.000	52.28	-8.4	43.88	74.00	30.12	PK+	H
4	12415.500	49.70	-4.78	44.92	74.00	29.08	PK+	H
5	16663.500	47.33	-0.63	46.70	74.00	27.30	PK+	H
6	17694.000	47.12	0.21	47.33	74.00	26.67	PK+	H

Other harmonics emissions are lower than 20dB below the allowable limit.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+ Probe Factor +Cable Loss.

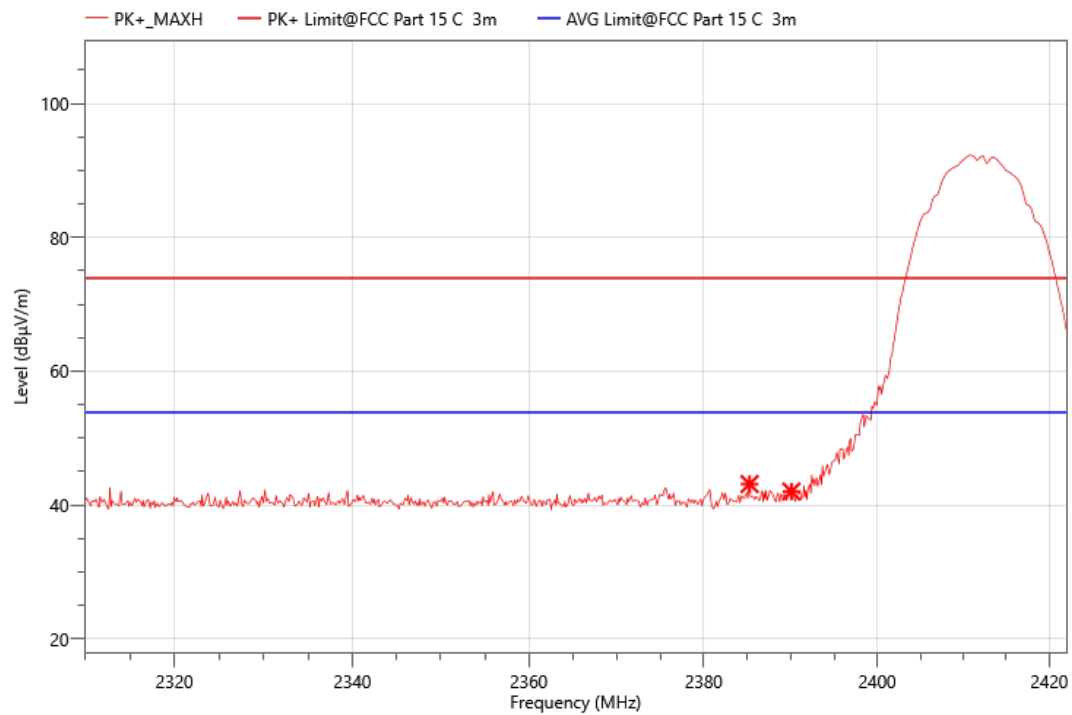
(3) The average measurement was not performed when the peak measured data under the limit of average detection.

(4) Measuring frequencies from 1GHz to 25GHz.

Band edge:

The worst result as bellow:

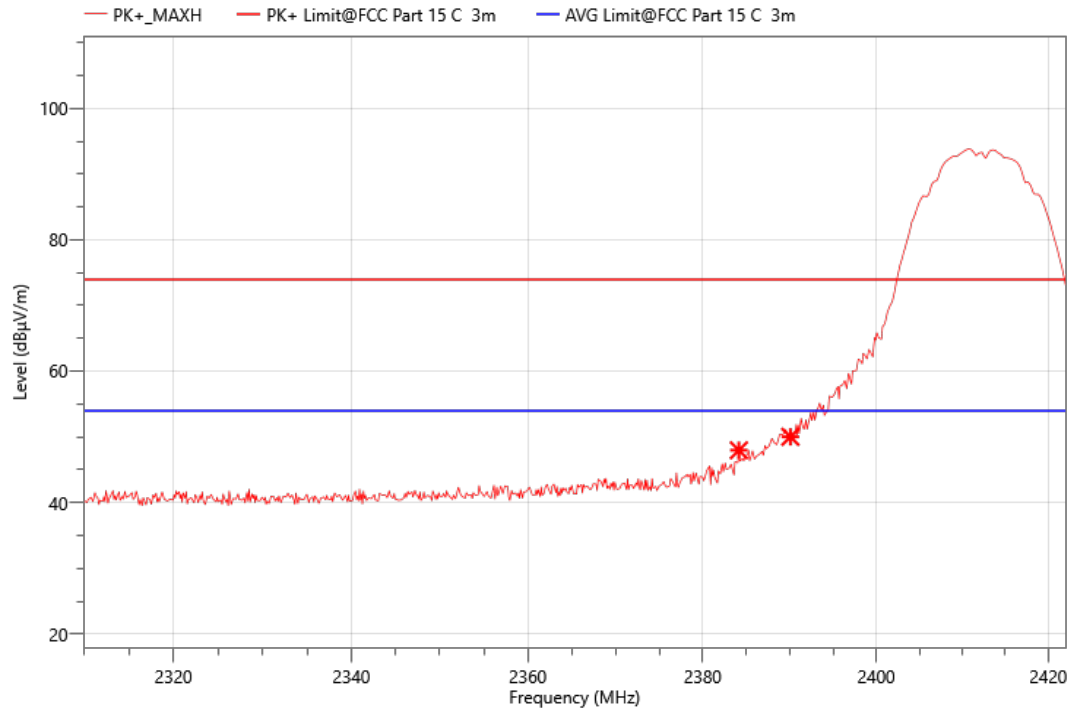
Mode:	2412
Power:	DC 5V
TE:	Vier
Date	2024/01/25
T/A/P	24°C/55%/101.5Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2385.264	61.12	-18	43.12	74.00	30.88	PK+	V
2	2390.080	60.00	-17.99	42.01	74.00	31.99	PK+	V

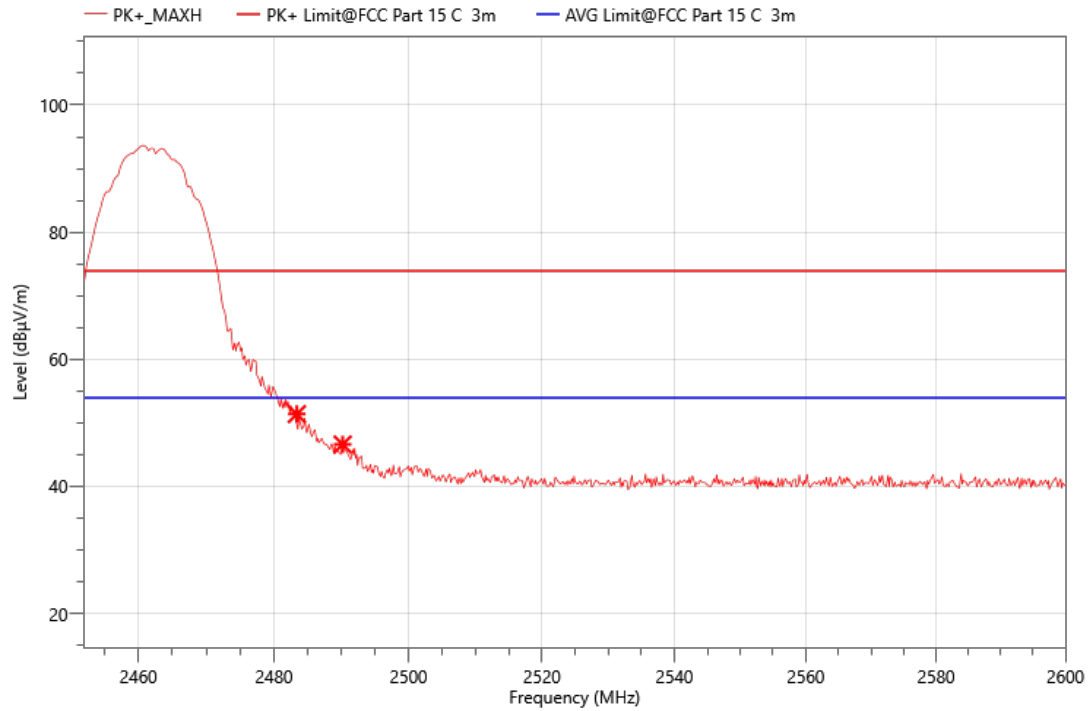
Mode:	2412
Power:	DC 5V
TE:	Vier
Date	2024/01/25
T/A/P	24°C/55%/101.5Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2384.144	65.96	-18	47.96	74.00	26.04	PK+	H
2	2390.080	68.00	-17.99	50.01	74.00	23.99	PK+	H

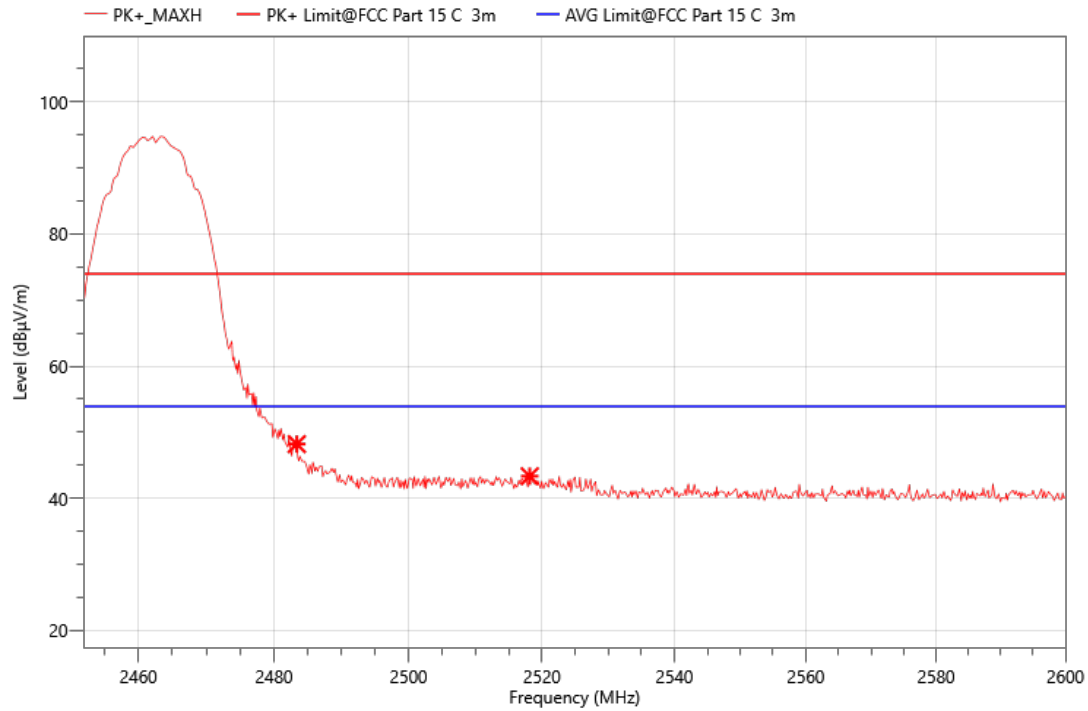
Mode:	2462
Power:	DC 5V
TE:	Vier
Date	2024/01/25
T/A/P	24°C/55%/101.5Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.376	69.09	-17.71	51.38	74.00	22.62	PK+	H
2	2490.184	64.31	-17.7	46.61	74.00	27.39	PK+	H

Mode:	2462
Power:	DC 5V
TE:	Vier
Date	2024/01/25
T/A/P	24°C/55%/101.5Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.376	65.90	-17.71	48.19	74.00	25.81	PK+	V
2	2518.156	60.96	-17.63	43.33	74.00	30.67	PK+	V