

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

Smart WiFi Flood Light

MODEL NUMBER: AT2309, AT2310, AT2312, AT2321

REPORT NUMBER: E04A23080329F00301

ISSUE DATE: September 17, 2023

FCC ID: 2APP3-AT230900

Prepared for

Meko Lighting Company Limited

**No.2, Songlin East Road, Zeng Tian Village, Xin An District, Chang An Town,
Dongguan, China**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake
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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	September 17, 2023	Initial Issue	Joson

Summary of Test Results			
Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Meko Lighting Company Limited
Address: No.2, Songlin East Road, Zeng Tian Village, Xin An District,
Chang An Town, Dongguan, China

Manufacturer Information

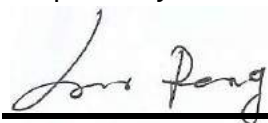
Company Name: Meko Lighting Company Limited
Address: No.2, Songlin East Road, Zeng Tian Village, Xin An District,
Chang An Town, Dongguan, China

EUT Information

EUT Name: Smart WiFi Flood Light
Model: AT2309, AT2310, AT2312, AT2321
(Models AT2309, AT2310, AT2312 have the same schematic diagram and electrical construction and colour, They all have a black appearance, just different sales platforms; Model AT2321 have a white appearance, the others are the same as models AT2309, AT2310, AT2312, We choose model AT2309 to do all tests)
Brand: 
Sample Received Date: September 5, 2023
Sample Status: Normal
Sample ID: A23080329 002
Date of Tested: September 6, 2023 to September 7, 2023
Hardware version: V1.0
Software version: V1.0

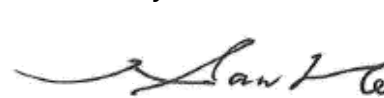
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C(DTS)	Pass

Prepared By:



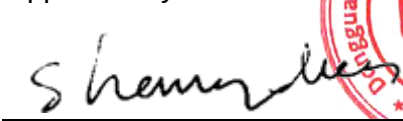
Joson Peng
Project Engineer

Checked By:



Alan He
Project Leader

Approved By:



Shawn Wen
Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DTS).

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
AC Power Line Conducted Emission	0.009 MHz ~ 0.15 MHz	2	4.00
	0.15 MHz ~ 30 MHz	2	3.62
Radiated Band edge and Spurious Emission	9kHz ~ 30MHz	2	2.20
	30 MHz ~ 1 GHz	2	3.16
	1 GHz ~ 18 GHz	2	5.64
	18 GHz ~ 26.5 GHz	2	5.54
Conducted Output Power	/	2	0.73
6dB Bandwidth and 99% Occupied Bandwidth	/	2	9.2ppm
Power Spectral Density	/	2	1.84
Conducted Band edge and spurious emission	9kHz ~ 30MHz	2	0.95
	30 MHz ~ 1 GHz	2	1.49
	1 GHz ~ 18 GHz	2	1.75
	18 GHz ~ 26.5 GHz	2	2.06
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Smart WiFi Flood Light
Model	AT2309
Ratings	120Vac, 50/60Hz
Test Power Supply	120Vac, 60Hz
Power Supply Information	/

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	802.11 b/g/n
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7
Number of Channels:	IEEE 802.11b/g/n-HT20: 11 IEEE 802.11n-HT40: 7
Maximum Peak Power:	IEEE 802.11b: 15.45dBm IEEE 802.11g: 13.25dBm IEEE 802.11n-HT20: 13.22dBm IEEE 802.11n-HT40: 11.91 dBm
Antenna Type:	PCB Antenna
Antenna Gain:	2.2dBi

5.2. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM AVERAGE EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	13.47	15.67
g	2412 ~ 2462	1-11[11]	12.52	14.72
n HT20	2412 ~ 2462	1-11[11]	12.5	14.7
n HT40	2422 ~ 2452	3-9[7]	10.7	12.9

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		Wifi Test Tool v1.6.0 release					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	30	30	30	/		
802.11g	1	15	15	15			
802.11n HT20	1	15	15	15			
802.11n HT40	1	/			15	15	15

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
 802.11g mode: 6 Mbps
 802.11n HT20 mode: MCS0
 802.11n HT40 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB Antenna	2.2dBi

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5.7. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

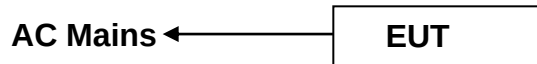
Item	Equipment	Trademark	Model No.	FCC ID	Note
1.	Smart WiFi Flood Light		AT2309	2APP3-AT230900	EUT

Note:

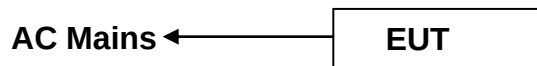
- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

5.8. SETUP DIAGRAM

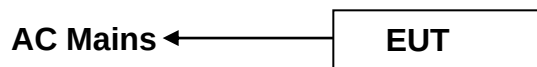
AC conducted emission :



Radiated Emission:



RF conducted:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2022/10/08	2023/10/07
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2022/10/08	2023/10/07
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/03/16	2024/03/15
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2022/10/08	2023/10/07
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/03/16	2024/03/15
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2022/10/08	2023/10/07
temperature humidity chamber	Espec	SH-241	SH-241-2014	2022/10/08	2023/10/07
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2022/10/08	2023/10/07
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2022/10/29	2023/10/28
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2022/10/08	2023/10/07
Pre-Amplifier	A-INFO	HPA-1G1850	HYP A21003	2022/10/29	2023/10/28
Horn antenna	A-INFO	3117	246069	2022/03/11	2023/03/10
Pre-Amplifier	ZKJC	HPA-184057	HYP A21004	2022/10/29	2023/10/28
Horn antenna	ZKJC	3116C	246265	2022/03/29	2023/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2022/12/03	2023/12/02
LISN/AMN	Rohde & Schwarz	ENV216	102843	2022/10/08	2023/10/07
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/03/30	2024/03/29
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data"

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G

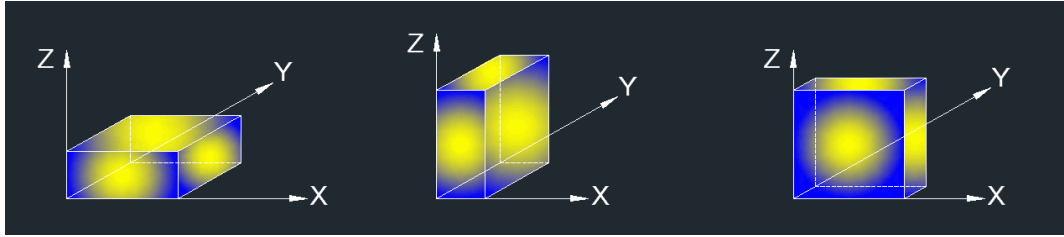
The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

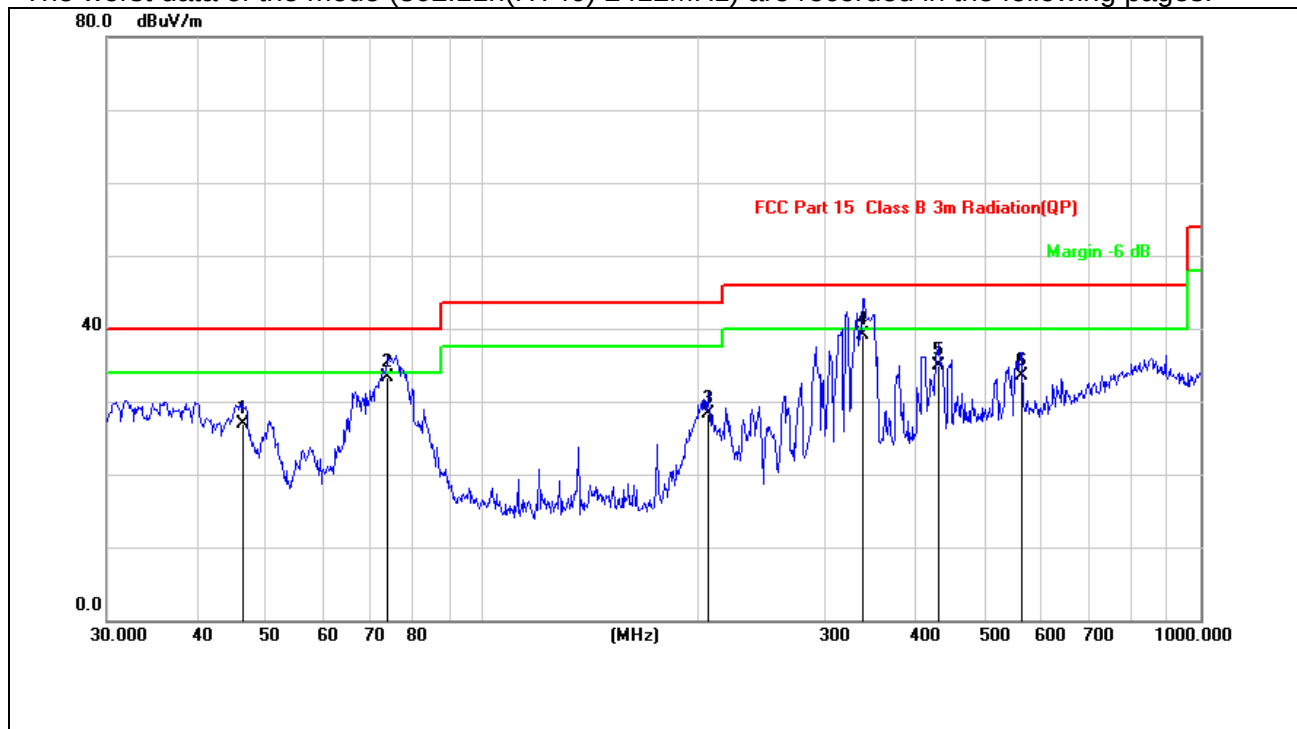
TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

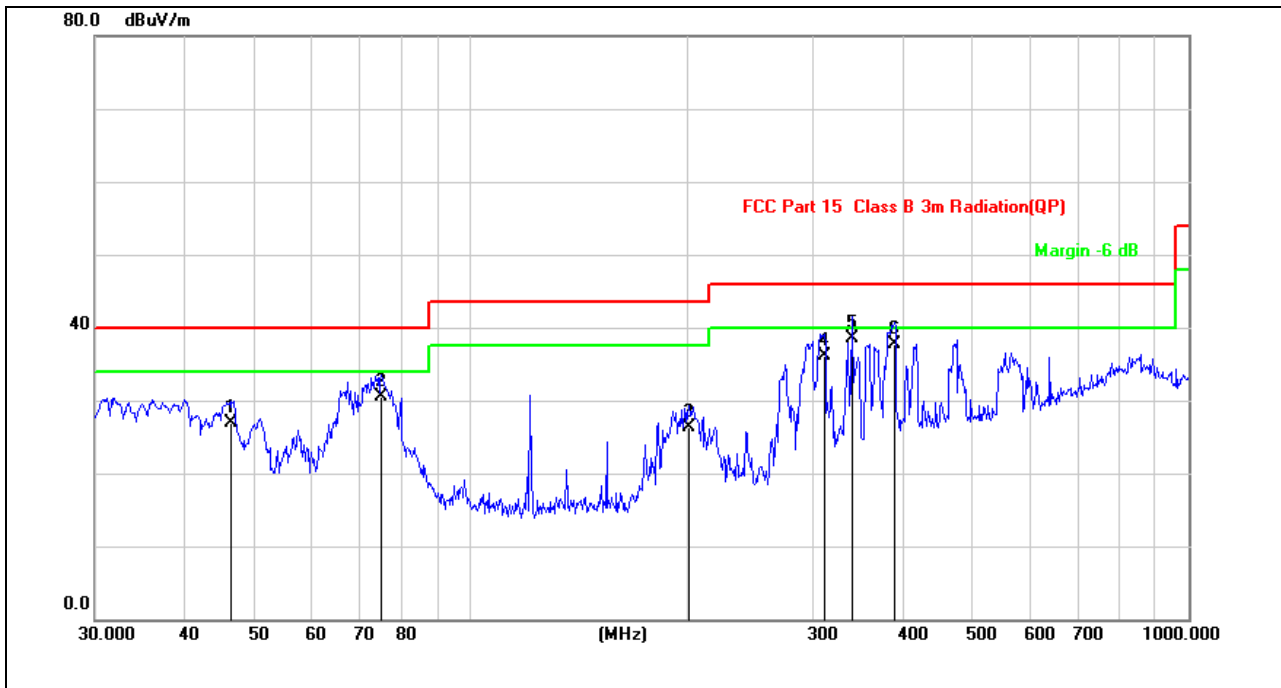
Radiated Spurious Emission :

The worst data of the mode (802.11n(HT40) 2412MHz) are recorded in the following pages.



Site:	ChamberA-2	Antenna::	Horizontal	Temperature(C):	24.6(C)
Limit:	FCC Part 15 C 3m Radiation(QP)			Humidity(%):	51.8%
EUT:	Smart WiFi Flood Light	Test Time:		2023-09-06	
M/N.:	AT2309	Power Rating:		AC 120V 60Hz	
Mode:	TX2412	Test Engineer:		Fink	
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	46.3402	36.70	-9.86	26.84	40.00	-13.16	QP
2 *	73.8756	44.35	-10.97	33.38	40.00	-6.62	QP
3	206.3976	39.32	-10.98	28.34	43.50	-15.16	QP
4	338.4001	44.49	-5.29	39.20	46.00	-6.80	QP
5	431.0316	36.65	-1.80	34.85	46.00	-11.15	QP
6	562.6624	33.01	0.56	33.57	46.00	-12.43	QP



Site:	ChamberA-2	Antenna::Horizontal	Temperature(C):24.6(C)
Limit:	FCC Part 15 3m Radiation(QP)		Humidity(%):51.8%
EUT:	Smart WiFi Flood Light	Test Time:	2023-09-06
M/N.:	AT2309	Power Rating:	AC 120V 60Hz
Mode:	TX2412	Test Engineer:	Fink
Note:			

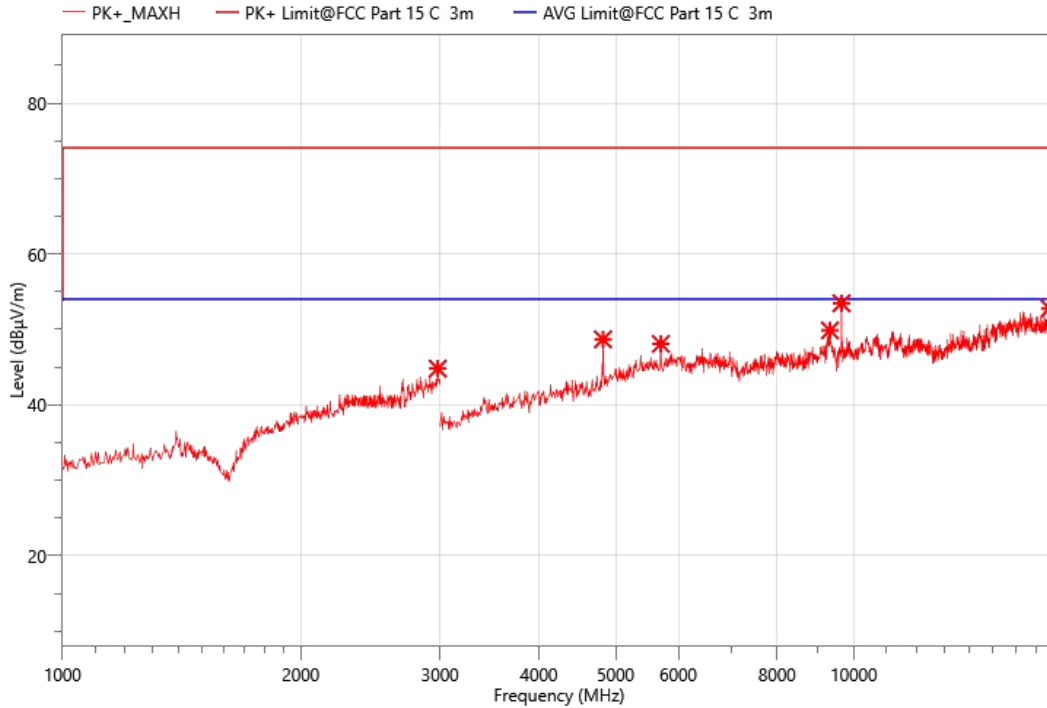
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	46.5030	36.72	-9.82	26.90	40.00	-13.10	QP
2	75.1822	41.61	-11.14	30.47	40.00	-9.53	QP
3	201.3930	37.35	-11.00	26.35	43.50	-17.15	QP
4	311.0867	42.73	-6.56	36.17	46.00	-9.83	QP
5 *	339.5888	43.62	-5.18	38.44	46.00	-7.56	QP
6	389.3549	40.98	-3.20	37.78	46.00	-8.22	QP

Above 1000MHz~10th Harmonics:

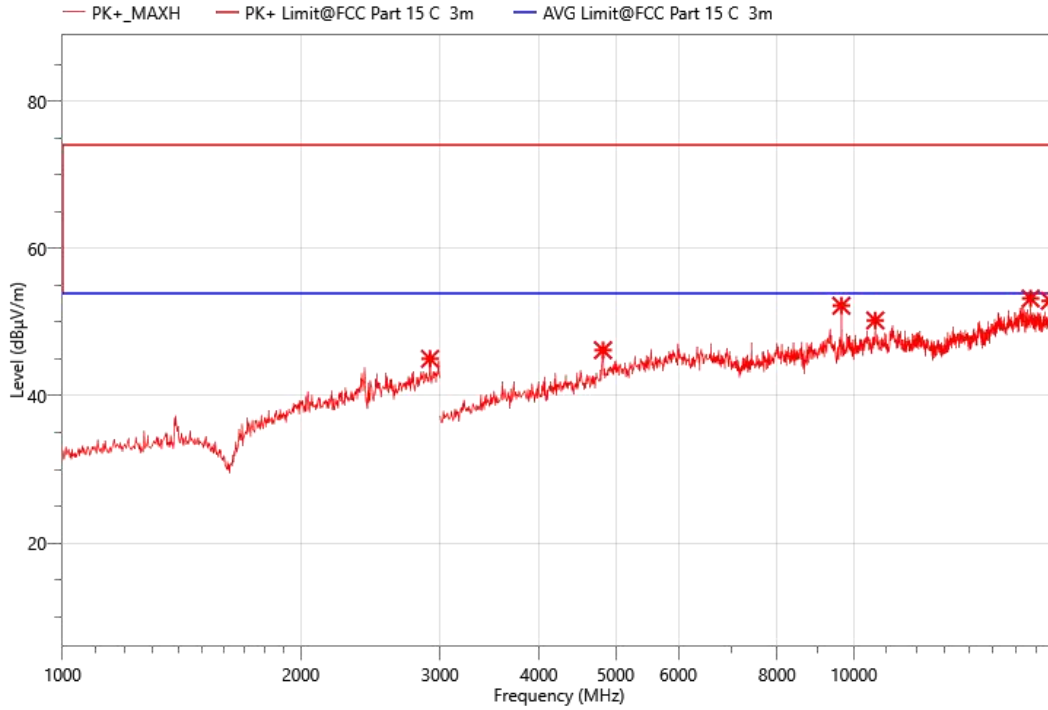
All the modulation modes were tested the data of the worst mode (TX 802.11b) are recorded in the following pages and the others modulation methods do not exceed the limits. The frequency range from 1GHz to 25GHz is investigated.

Operation Mode: 802.11b Lowest
Test Voltage: AC 120V 60Hz

Test Date : 2023-09-06
Test by: Fink



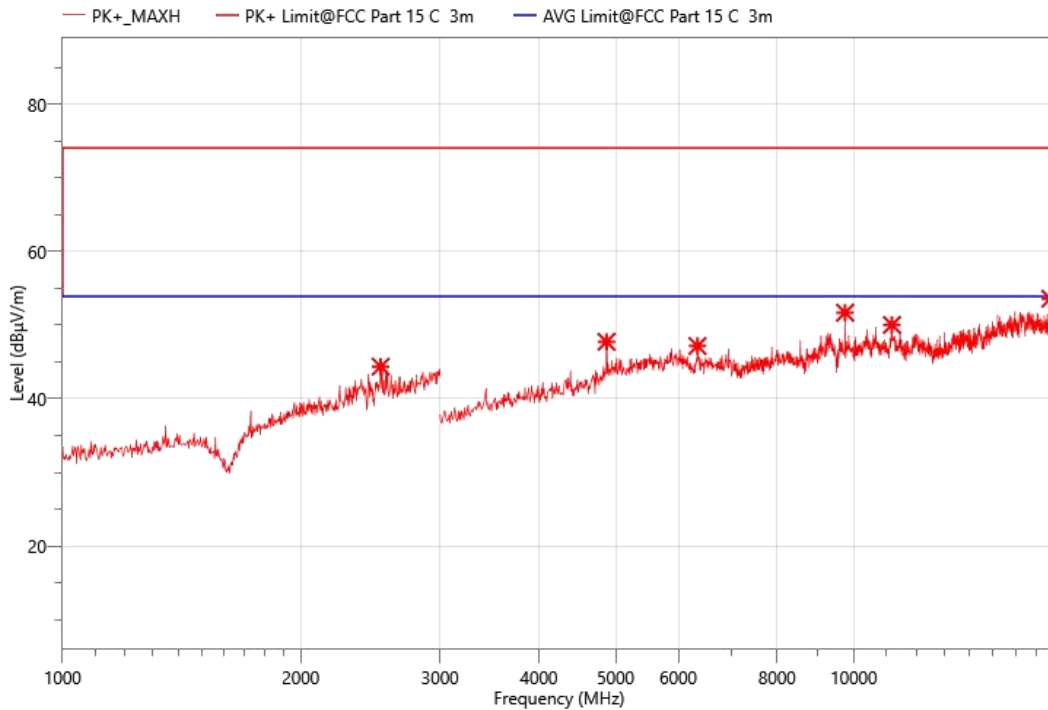
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2980.000	54.05	44.80	74.00	29.20	PK+	H	-9.25
2	4820.000	58.09	48.68	74.00	25.32	PK+	H	-9.41
3	5705.000	54.86	48.08	74.00	25.92	PK+	H	-6.78
4	9330.000	50.77	49.87	74.00	24.13	PK+	H	-0.9
5	9650.000	54.38	53.46	74.00	20.54	PK+	H	-0.92
6	17685.000	47.77	52.76	74.00	21.24	PK+	H	4.99



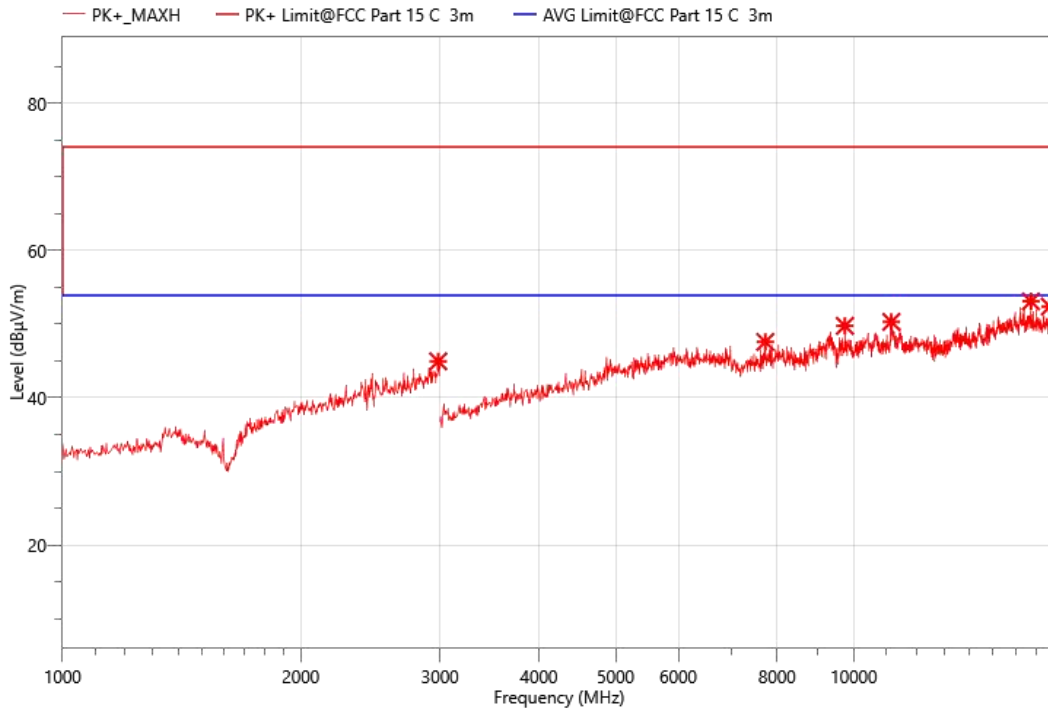
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2914.000	55.26	45.02	74.00	28.98	PK+	V	-10.24
2	4820.000	55.61	46.20	74.00	27.80	PK+	V	-9.41
3	9645.000	53.08	52.24	74.00	21.76	PK+	V	-0.84
4	10645.000	50.44	50.24	74.00	23.76	PK+	V	-0.2
5	16730.000	48.85	53.22	74.00	20.78	PK+	V	4.37
6	17695.000	48.07	52.90	74.00	21.10	PK+	V	4.83

Operation Mode: 802.11b Middle
Test Voltage: AC 120V 60Hz

Test Date : 2023-09-06
Test by: Fink



No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2524.000	56.47	44.37	74.00	29.63	PK+	H	-12.1
2	4870.000	56.89	47.75	74.00	26.25	PK+	H	-9.14
3	6345.000	51.43	47.18	74.00	26.82	PK+	H	-4.25
4	9750.000	52.64	51.70	74.00	22.30	PK+	H	-0.94
5	11175.000	49.31	50.04	74.00	23.96	PK+	H	0.73
6	17720.000	49.22	53.60	74.00	20.40	PK+	H	4.38



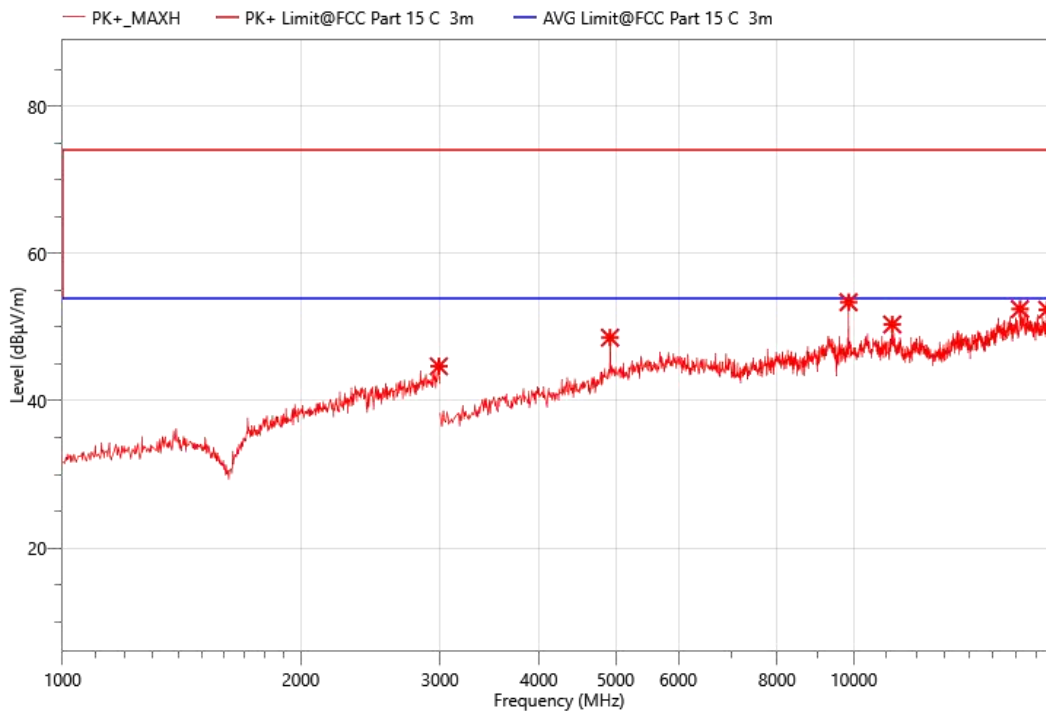
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2984.000	54.32	44.96	74.00	29.04	PK+	V	-9.36
2	7730.000	50.24	47.60	74.00	26.40	PK+	V	-2.64
3	9745.000	50.69	49.78	74.00	24.22	PK+	V	-0.91
4	11155.000	49.41	50.32	74.00	23.68	PK+	V	0.91
5	16745.000	48.76	53.10	74.00	20.90	PK+	V	4.34
6	17695.000	47.57	52.40	74.00	21.60	PK+	V	4.83

Operation Mode: 802.11b Highest

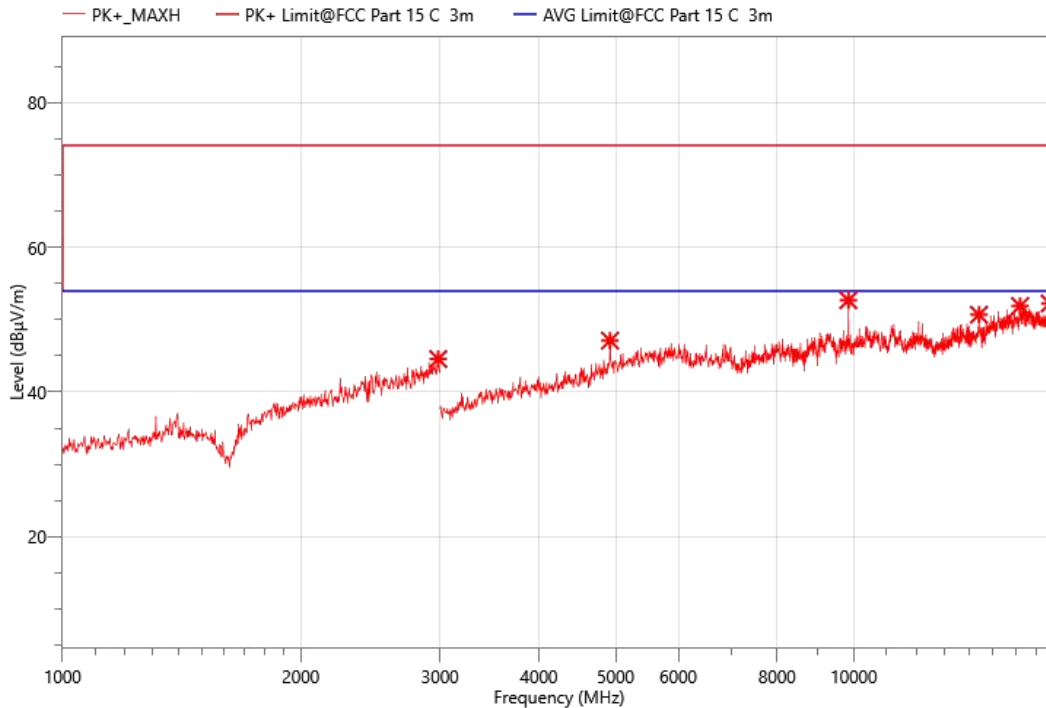
Test Date : 2023-09-06

Test Voltage: AC 120V 60Hz

Test by: Fink



No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2990.000	53.88	44.69	74.00	29.31	PK+	H	-9.19
2	4920.000	57.34	48.58	74.00	25.42	PK+	H	-8.76
3	9850.000	55.03	53.40	74.00	20.60	PK+	H	-1.63
4	11185.000	50.08	50.37	74.00	23.63	PK+	H	0.29
5	16220.000	48.20	52.46	74.00	21.54	PK+	H	4.26
6	17560.000	48.20	52.38	74.00	21.62	PK+	H	4.18



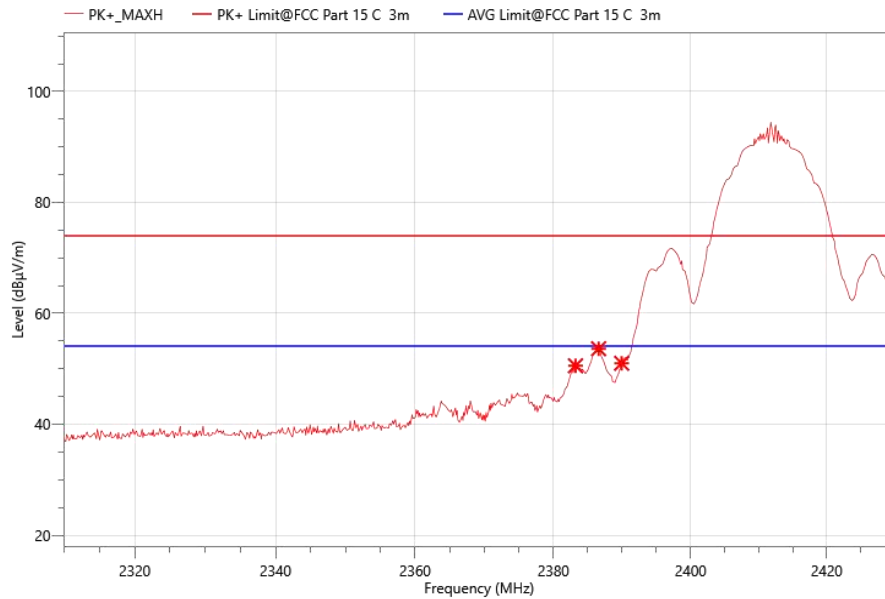
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2984.000	53.91	44.55	74.00	29.45	PK+	V	-9.36
2	4920.000	55.86	47.10	74.00	26.90	PK+	V	-8.76
3	9845.000	54.33	52.67	74.00	21.33	PK+	V	-1.66
4	14395.000	48.68	50.67	74.00	23.33	PK+	V	1.99
5	16225.000	47.61	51.87	74.00	22.13	PK+	V	4.26
6	17690.000	47.32	52.23	74.00	21.77	PK+	V	4.91

No others harmonics emissions are higher than 20 dB below the limits of 47 CFR Part 15.247.

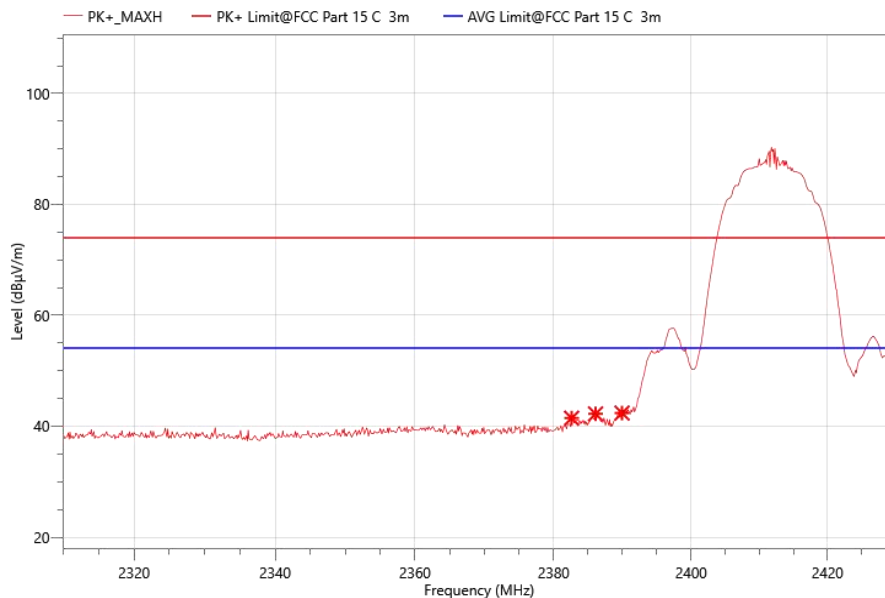
Note: (1) All Readings are Peak Value and AV.

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

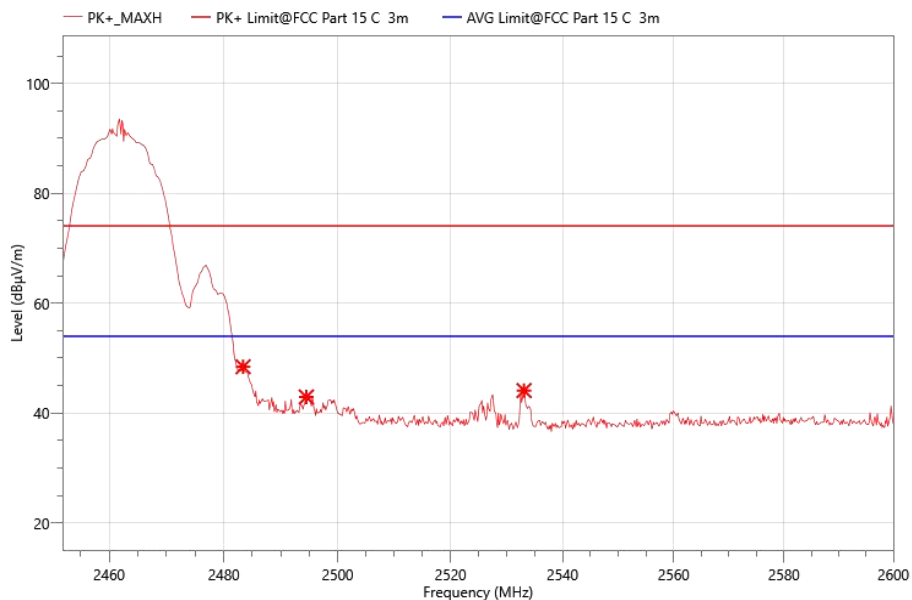
(3) Data of measurement within this frequency range shown “ – ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Band edge:**802.11b 2412MHz****Horizontal**

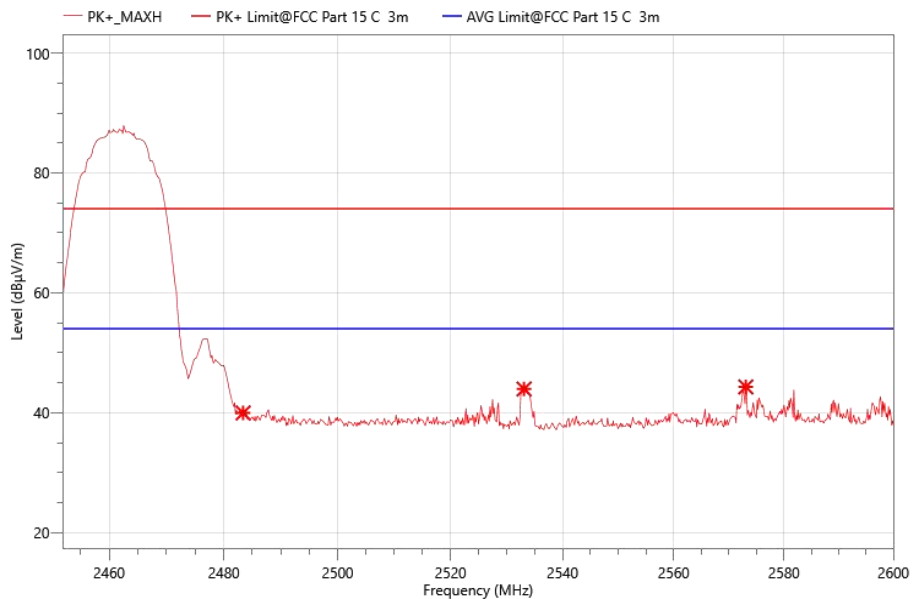
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2383.200	71.29	50.55	74.00	23.45	PK+	H	-20.74
2	2386.560	74.36	53.62	74.00	20.38	PK+	H	-20.74
3	2389.920	71.73	51.00	74.00	23.00	PK+	H	-20.73

Vertical

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2382.600	62.22	41.47	74.00	32.53	PK+	V	-20.75
2	2386.080	62.98	42.24	74.00	31.76	PK+	V	-20.74
3	2389.920	63.12	42.39	74.00	31.61	PK+	V	-20.73

802.11b 2462MHz**Horizontal**

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2483.376	68.72	48.42	74.00	25.58	PK+	H	-20.3
2	2494.476	63.20	42.93	74.00	31.07	PK+	H	-20.27
3	2533.104	64.20	44.09	74.00	29.91	PK+	H	-20.11

Vertical

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Corr. (dB)
1	2483.376	60.27	39.97	74.00	34.03	PK+	V	-20.3
2	2533.104	64.07	43.96	74.00	30.04	PK+	V	-20.11
3	2573.064	64.10	44.31	74.00	29.69	PK+	V	-19.79

9. Antenna Requirement

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC Power Line Conducted Emission

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

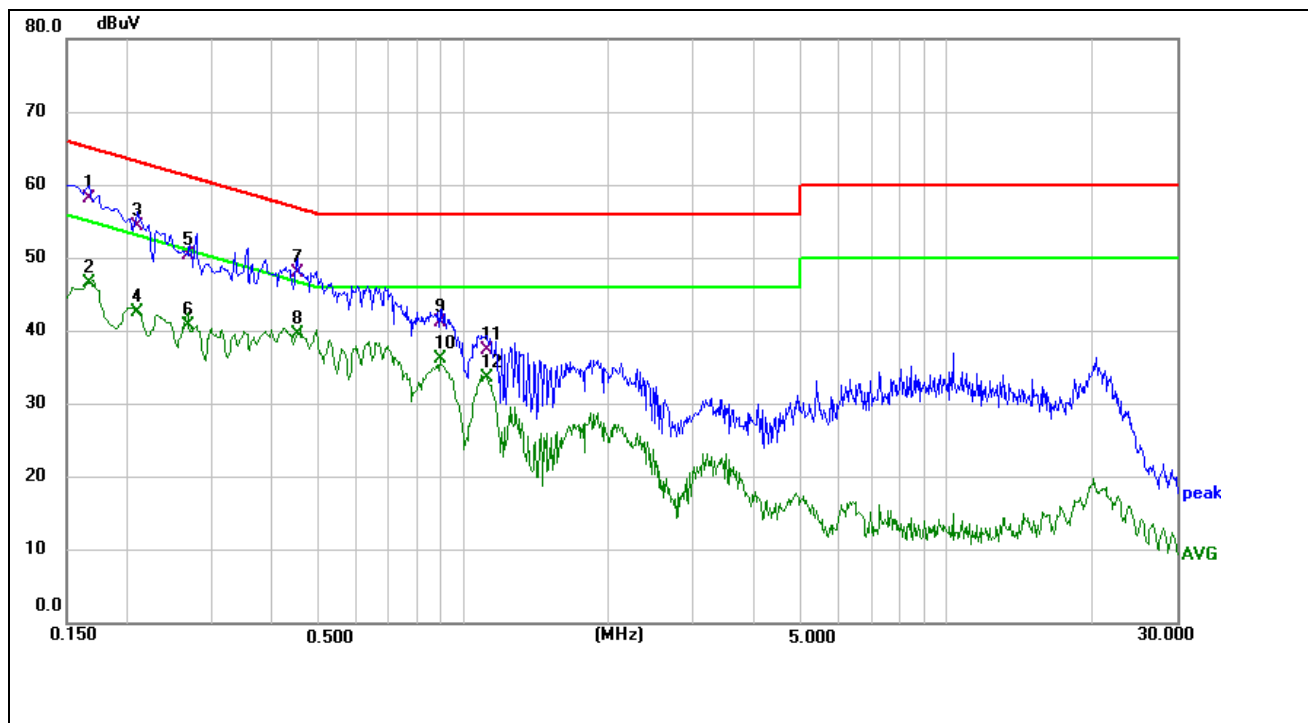
TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

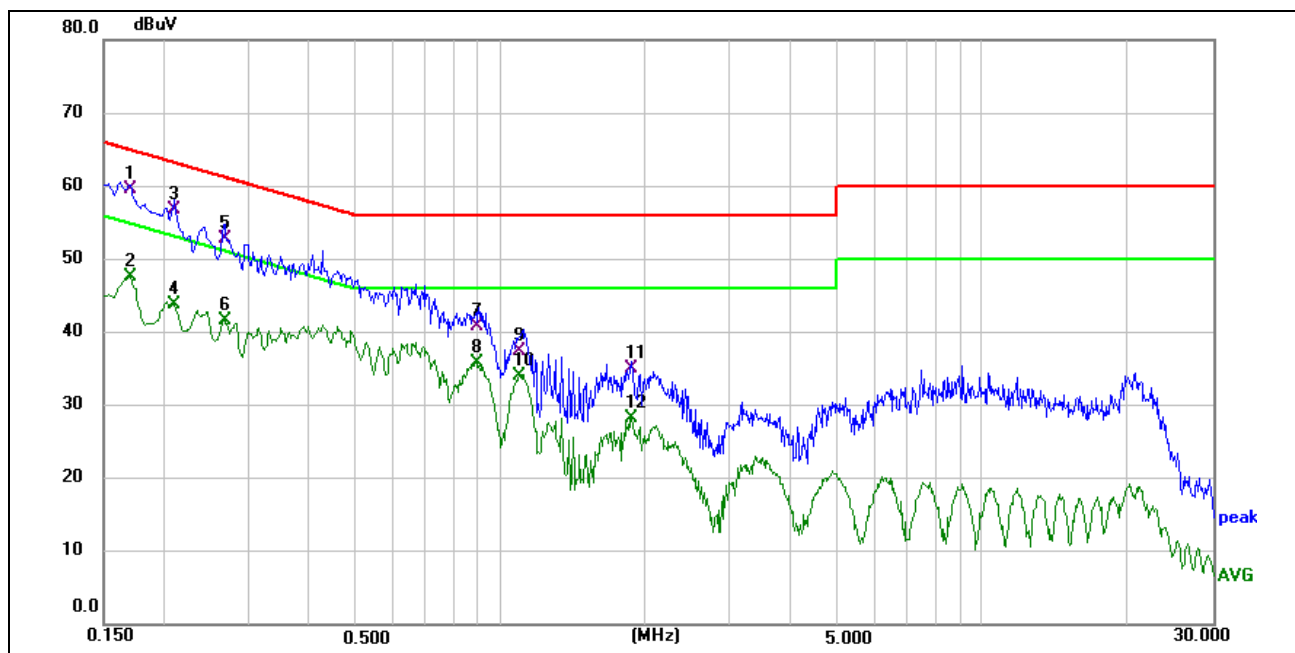
TEST ENVIRONMENT

Temperature	24.8°C	Relative Humidity	51.9%
Atmosphere Pressure	101kPa		

TEST RESULTS

Site:		Phase: L1	Temperature(C): 24.8(C)
Limit:	FCC Part 15 C Conduction(QP)		Humidity(%): 51.9%
EUT:	Smart WiFi Flood Light	Test Time:	2023-09-07
M/N.:	AT2309	Power Rating:	AC 120V 60Hz
Mode:	TX 2412	Test Engineer:	Fink
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1 *	0.1660	47.42	10.72	58.14	65.16	-7.02	QP	
2	0.1660	35.89	10.72	46.61	55.16	-8.55	AVG	
3	0.2100	43.56	10.81	54.37	63.21	-8.84	QP	
4	0.2100	31.80	10.81	42.61	53.21	-10.60	AVG	
5	0.2686	39.54	10.93	50.47	61.16	-10.69	QP	
6	0.2686	29.93	10.93	40.86	51.16	-10.30	AVG	
7	0.4500	36.65	11.30	47.95	56.88	-8.93	QP	
8	0.4500	28.35	11.30	39.65	46.88	-7.23	AVG	
9	0.8940	30.81	10.42	41.23	56.00	-14.77	QP	
10	0.8940	25.80	10.42	36.22	46.00	-9.78	AVG	
11	1.1220	27.07	10.42	37.49	56.00	-18.51	QP	
12	1.1220	23.11	10.42	33.53	46.00	-12.47	AVG	



Site:	FCC Part 15 C Conduction(QP)	Phase:N	Temperature(C):24.8(C)
Limit:	Smart WiFi Flood Light	Test Time:	Humidity(%):51.9%
EUT:	AT2309	Power Rating:	2023-09-07
M/N.:	TX 2412	Test Engineer:	AC 120V 60Hz
Mode:			Fink
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1 *	0.1700	48.82	10.66	59.48	64.96	-5.48	QP	
2	0.1700	36.97	10.66	47.63	54.96	-7.33	AVG	
3	0.2100	45.92	10.75	56.67	63.21	-6.54	QP	
4	0.2100	33.07	10.75	43.82	53.21	-9.39	AVG	
5	0.2660	41.99	10.86	52.85	61.24	-8.39	QP	
6	0.2660	30.78	10.86	41.64	51.24	-9.60	AVG	
7	0.8940	30.43	10.35	40.78	56.00	-15.22	QP	
8	0.8940	25.48	10.35	35.83	46.00	-10.17	AVG	
9	1.0980	27.04	10.35	37.39	56.00	-18.61	QP	
10	1.0980	23.69	10.35	34.04	46.00	-11.96	AVG	
11	1.8740	24.61	10.36	34.97	56.00	-21.03	QP	
12	1.8740	17.93	10.36	28.29	46.00	-17.71	AVG	

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

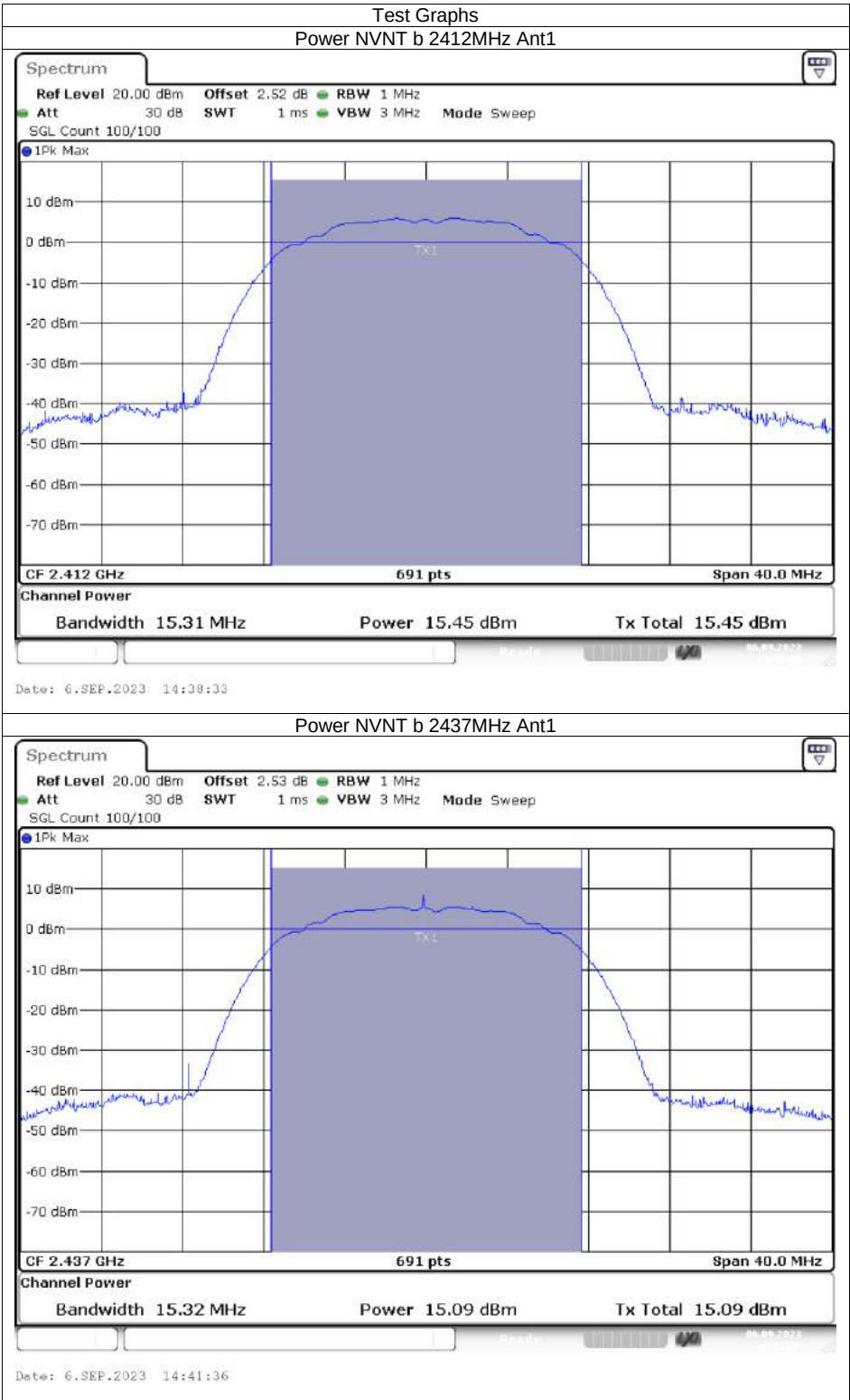
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

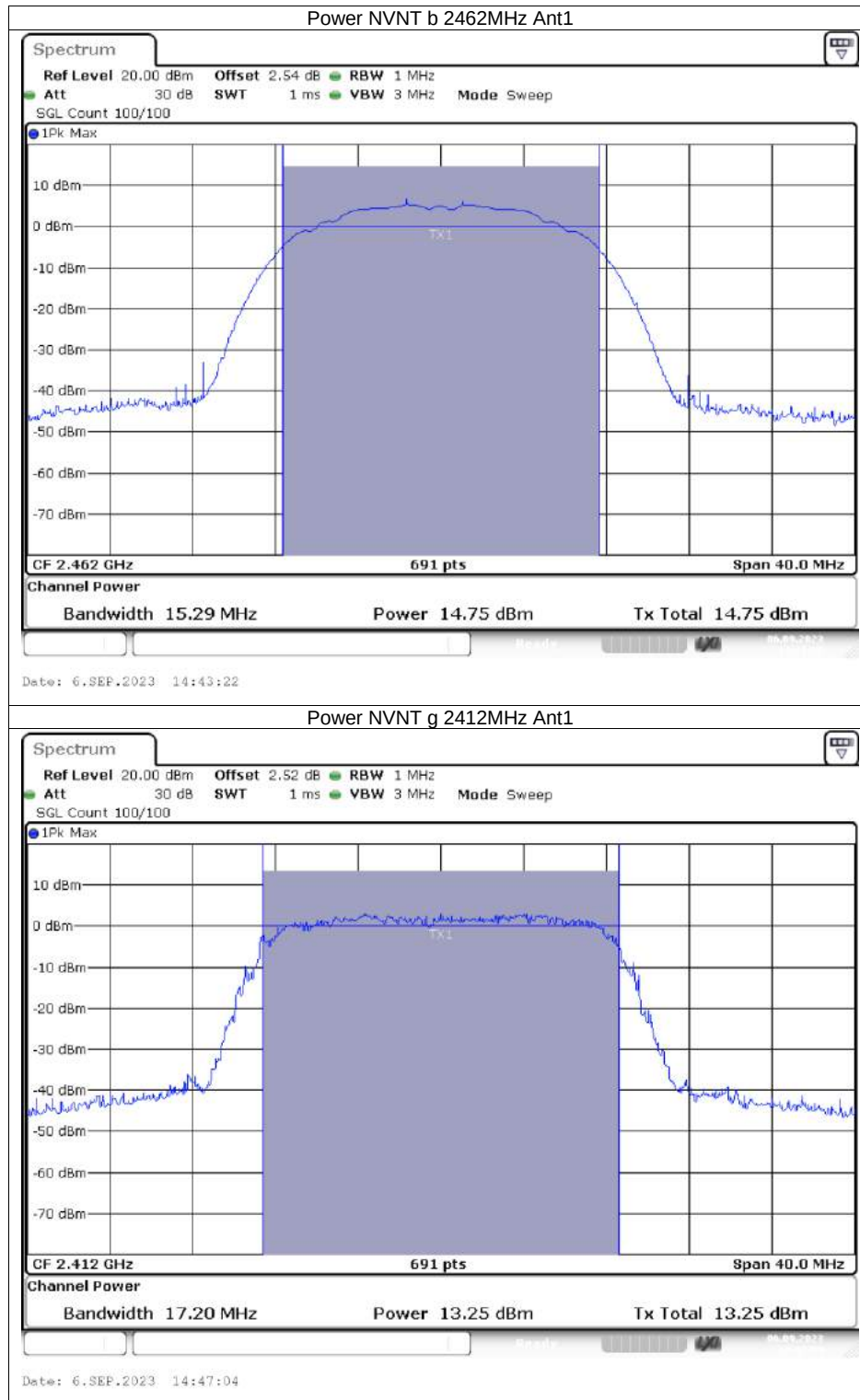
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

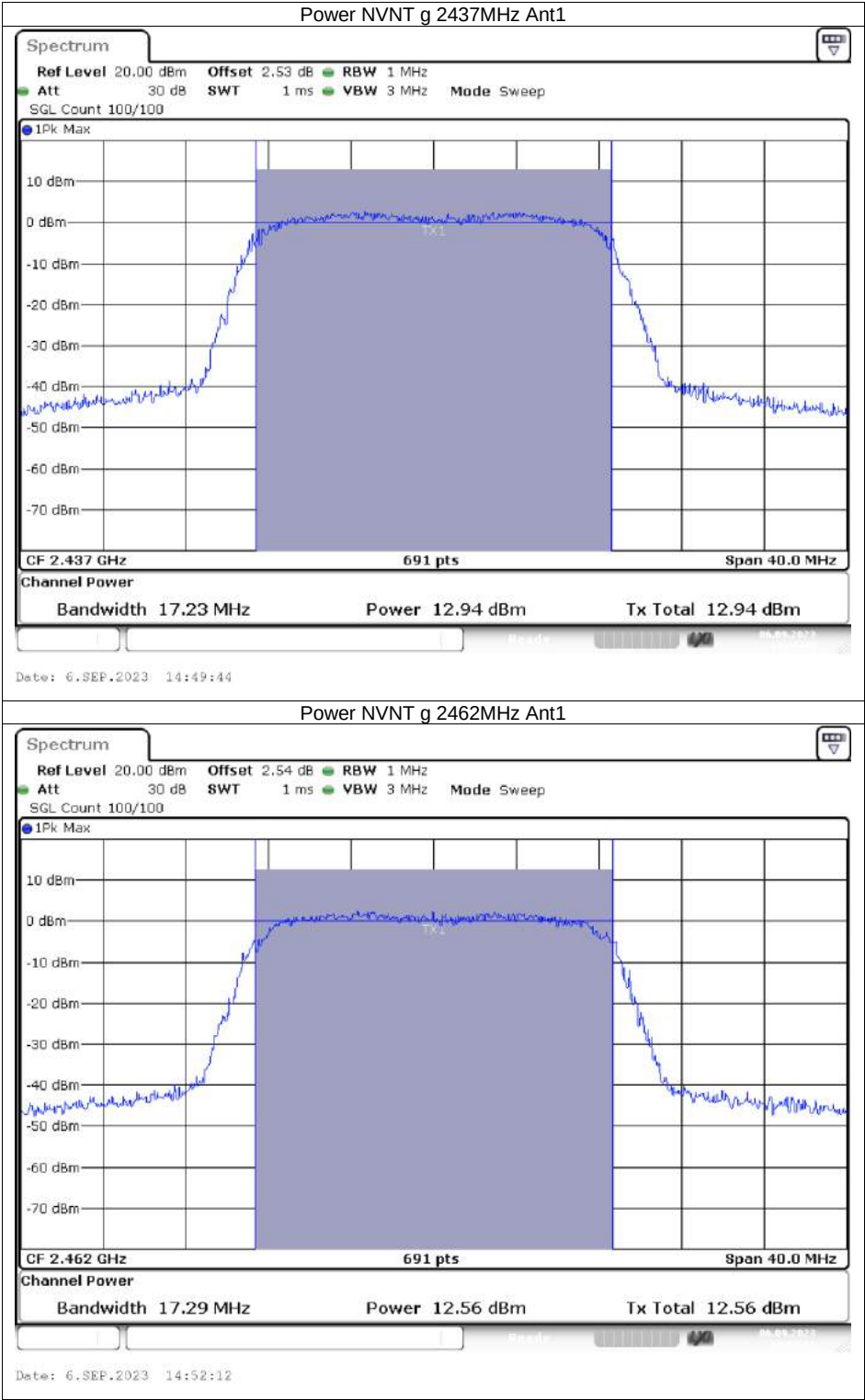
Note: All the modes have been tested, only the worst data was recorded in the report.

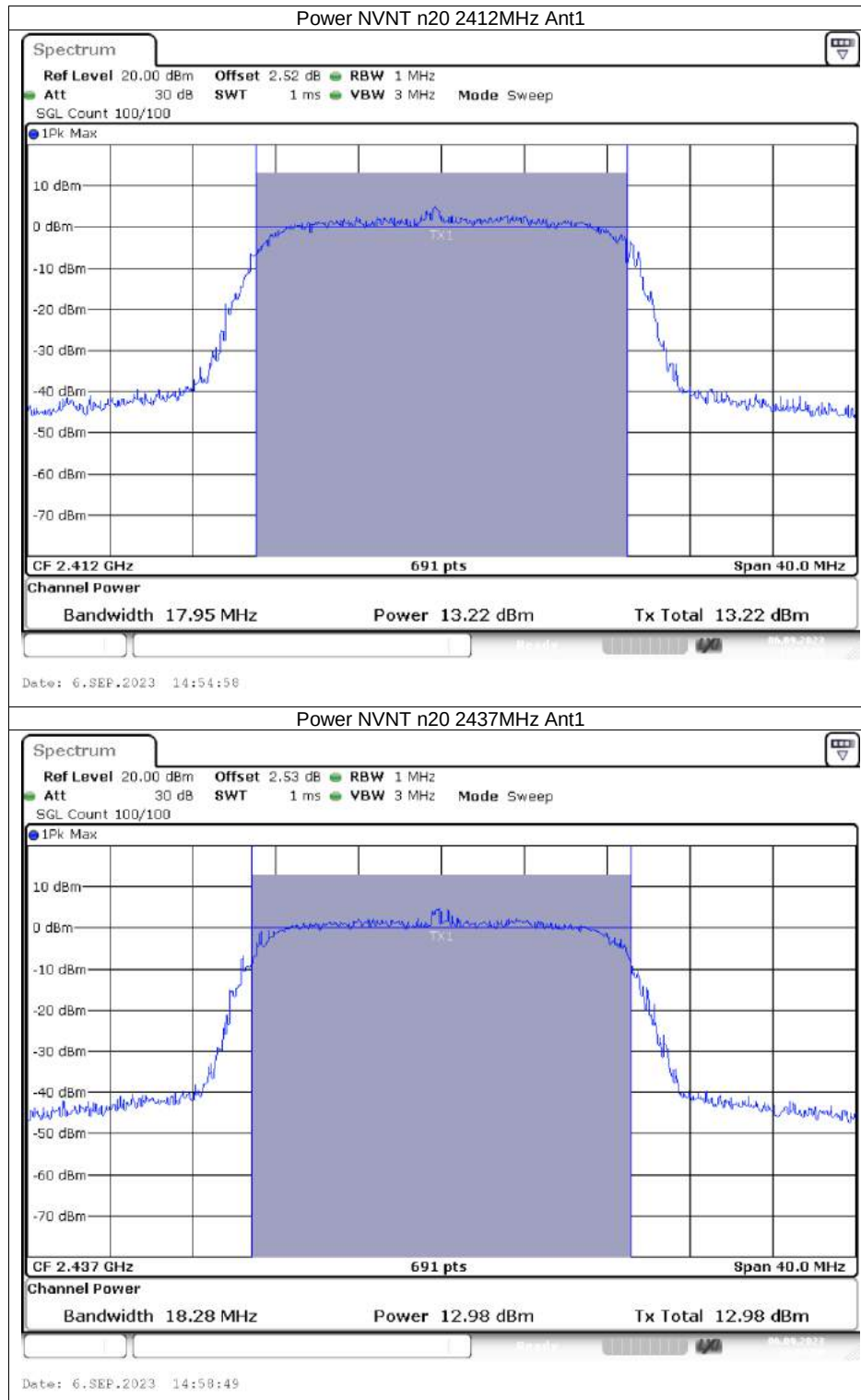
11. TEST DATA**Maximum Conducted Output Power**

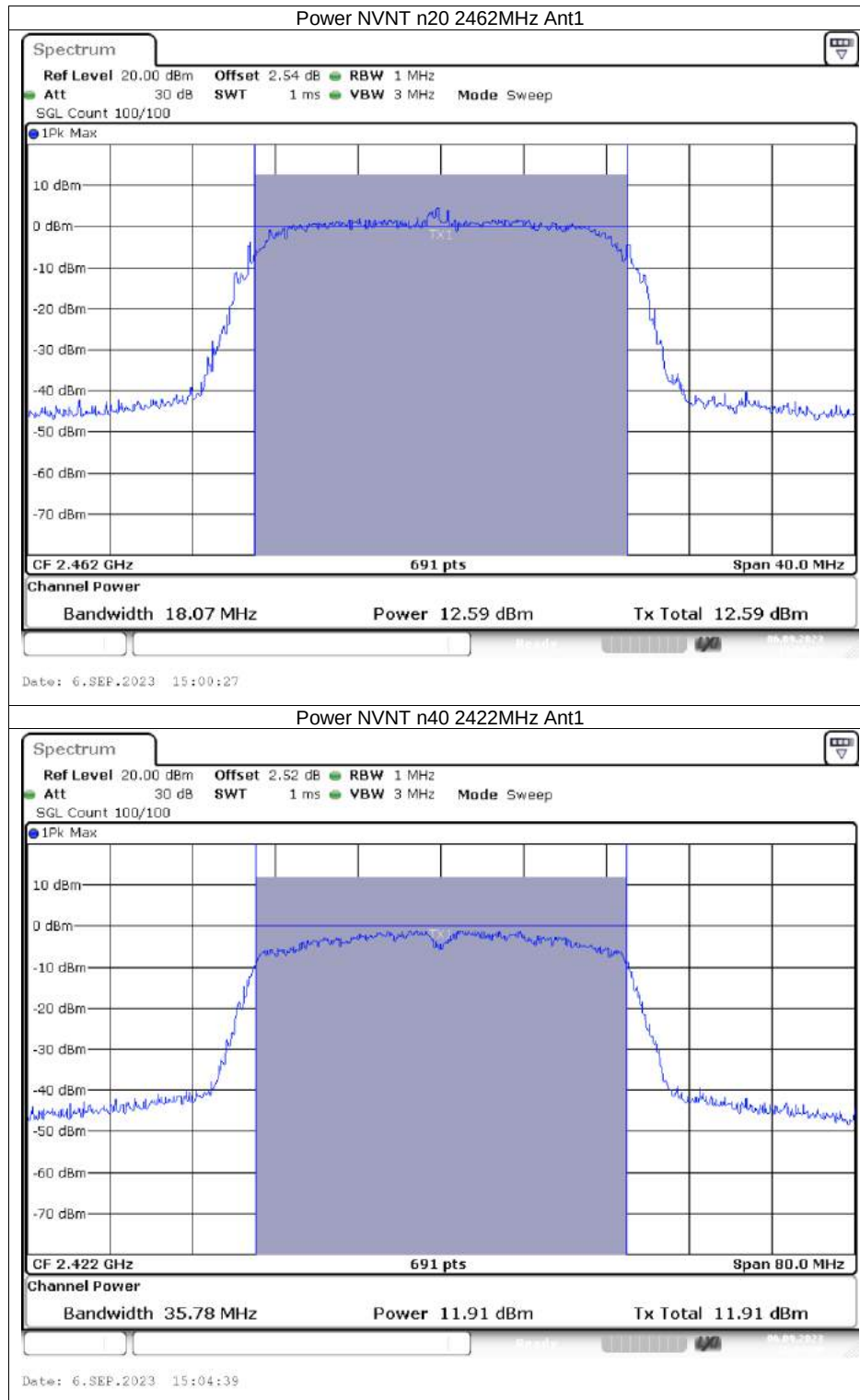
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.45	30	Pass
NVNT	b	2437	Ant1	15.09	30	Pass
NVNT	b	2462	Ant1	14.75	30	Pass
NVNT	g	2412	Ant1	13.25	30	Pass
NVNT	g	2437	Ant1	12.94	30	Pass
NVNT	g	2462	Ant1	12.56	30	Pass
NVNT	n20	2412	Ant1	13.22	30	Pass
NVNT	n20	2437	Ant1	12.98	30	Pass
NVNT	n20	2462	Ant1	12.59	30	Pass
NVNT	n40	2422	Ant1	11.91	30	Pass
NVNT	n40	2437	Ant1	11.52	30	Pass
NVNT	n40	2452	Ant1	11.07	30	Pass

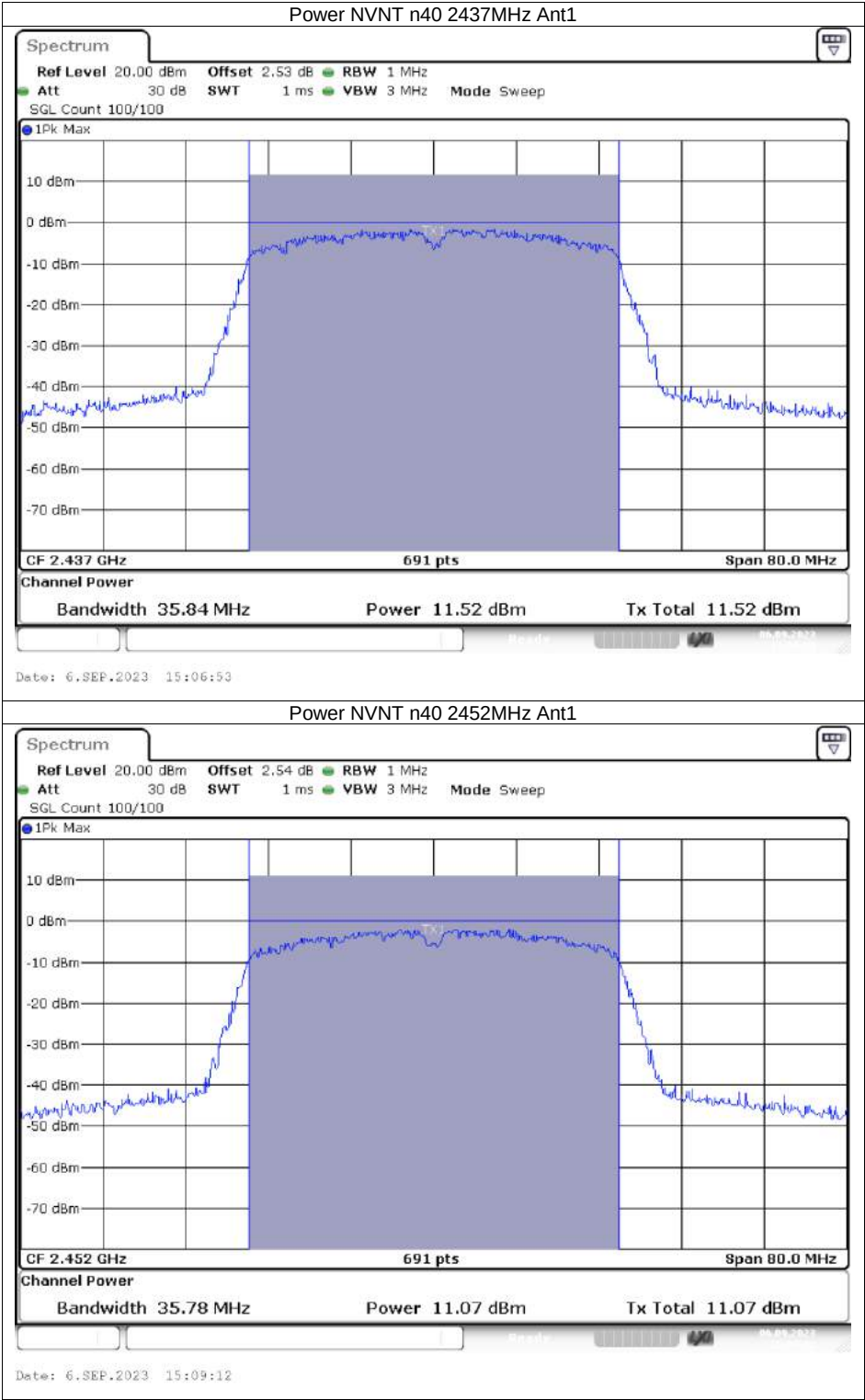






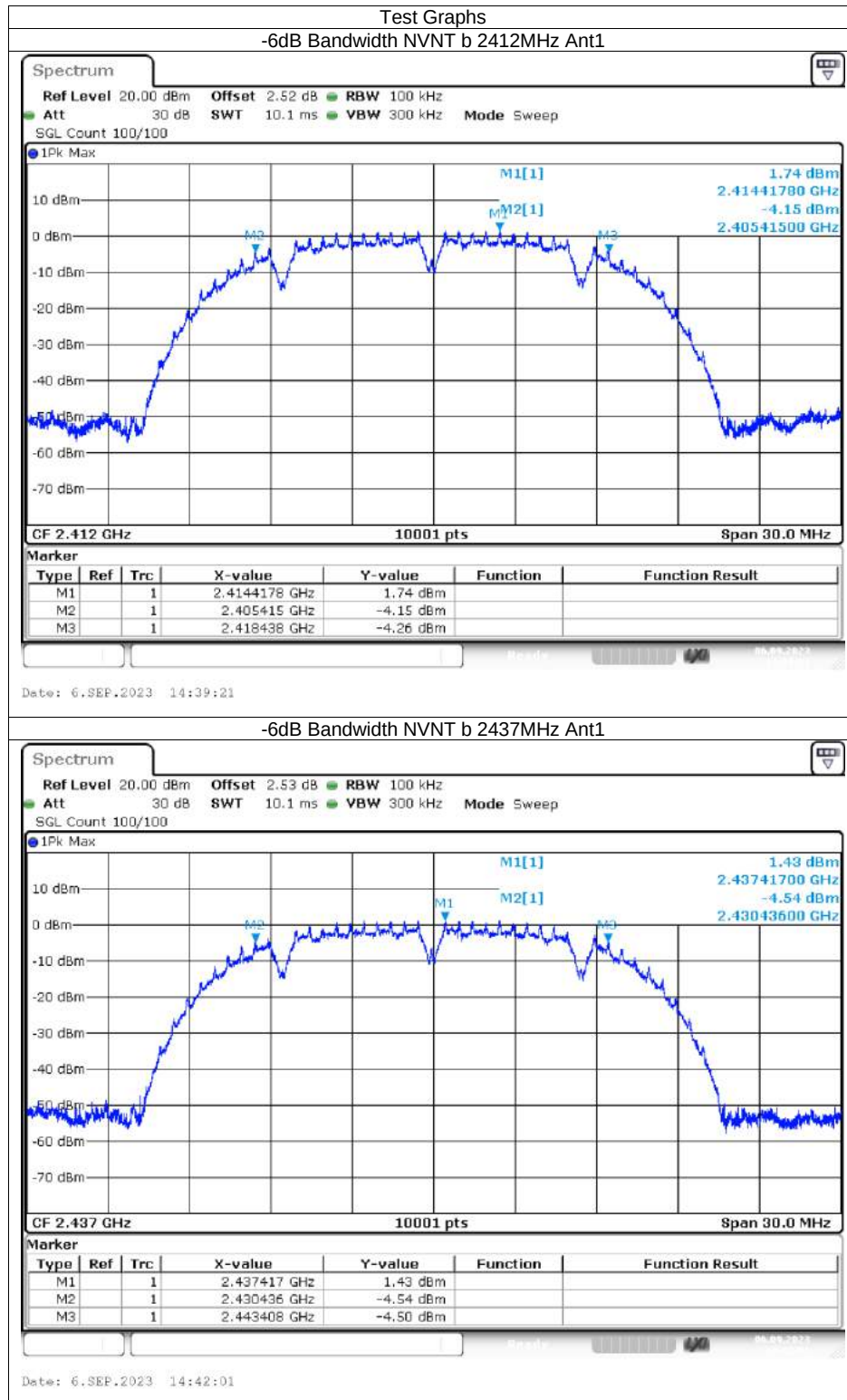


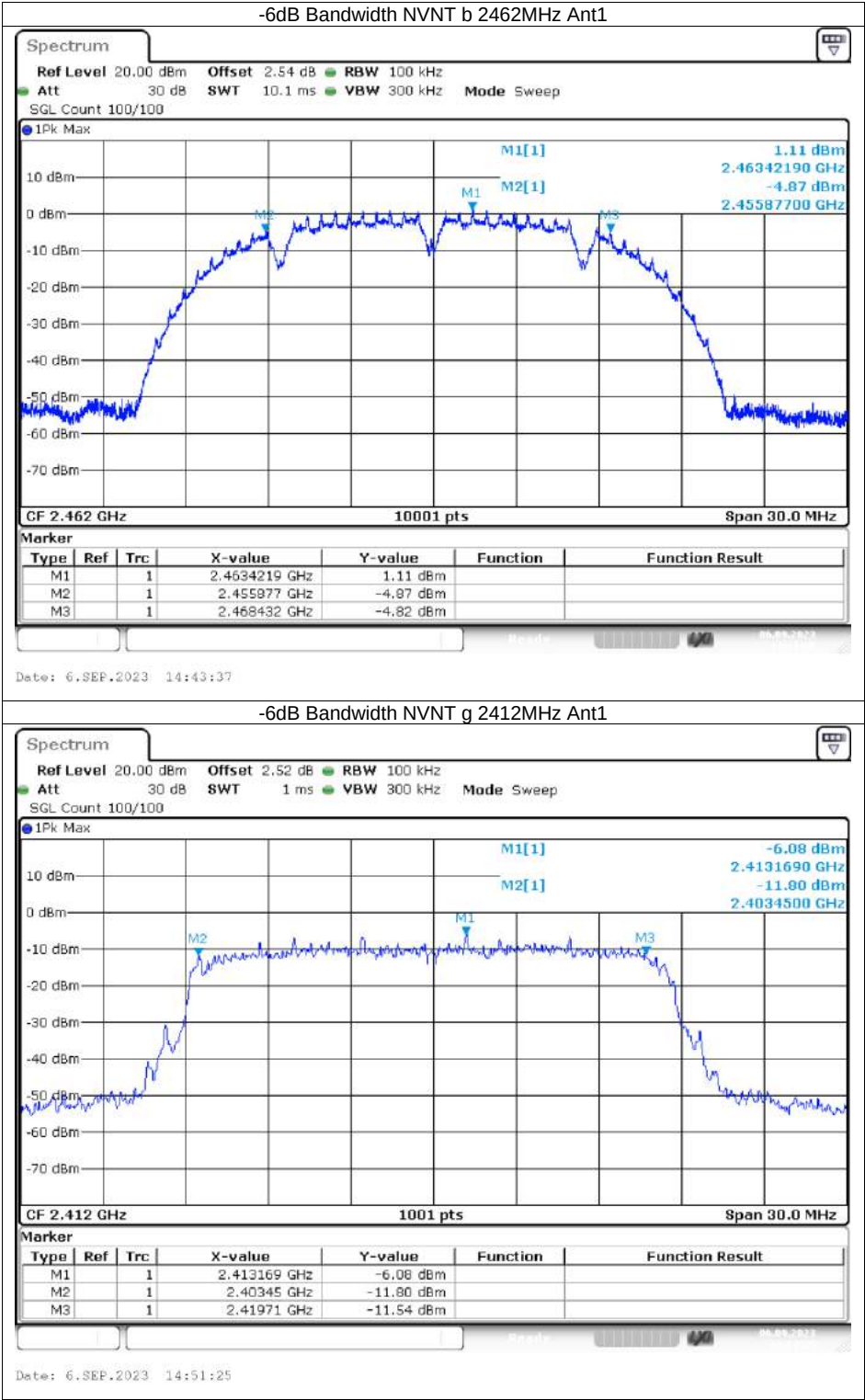


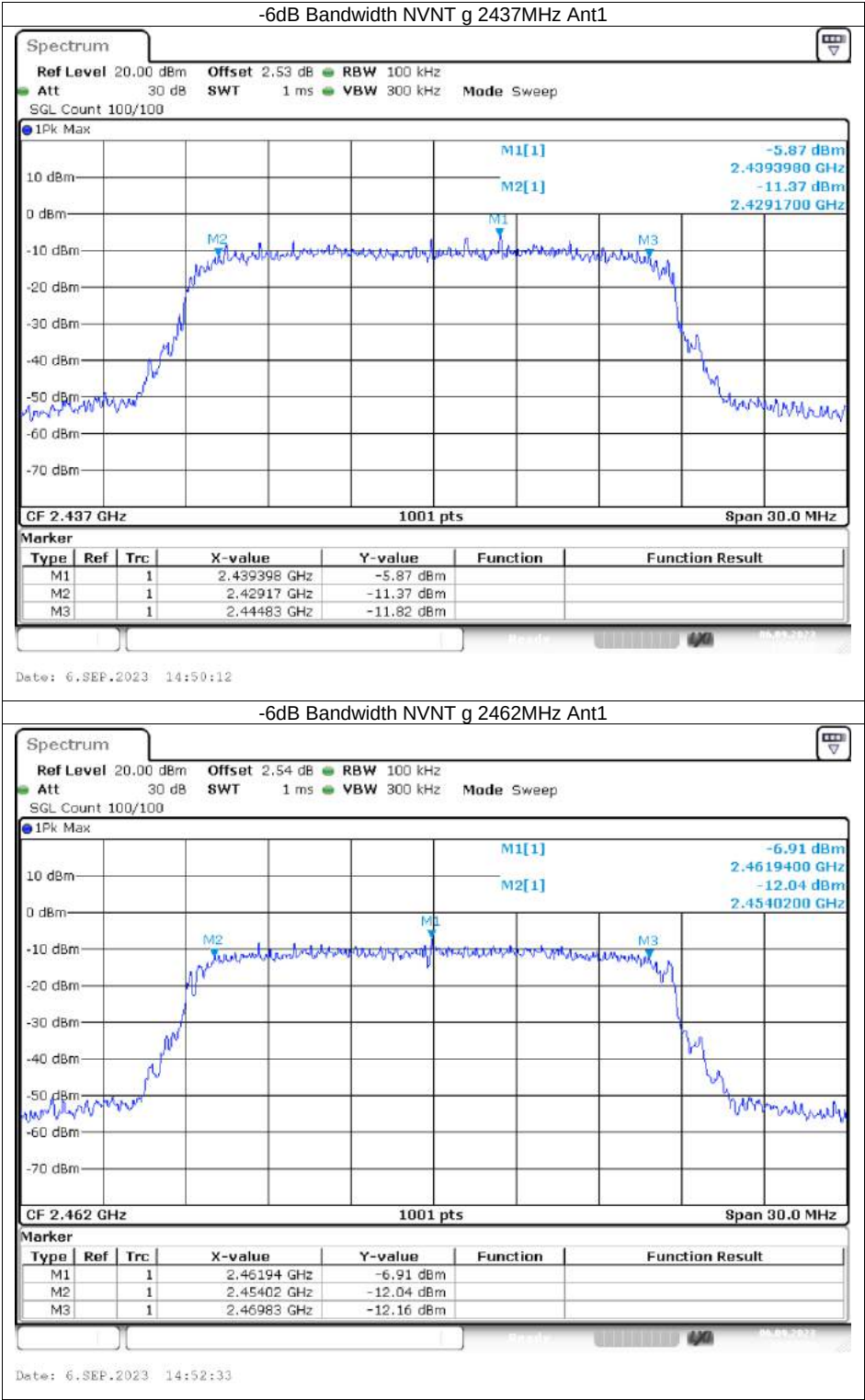


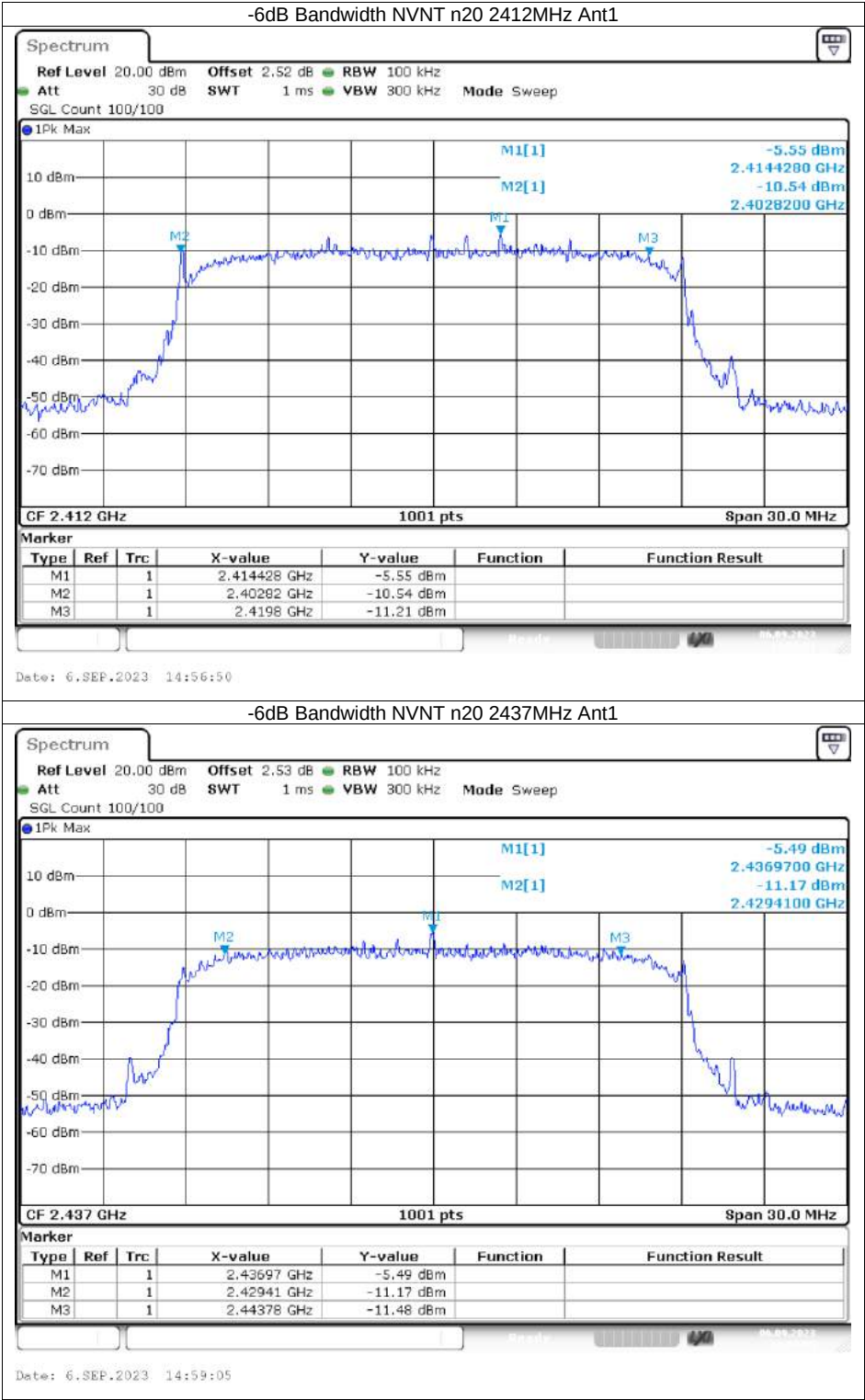
-6dB Bandwidth

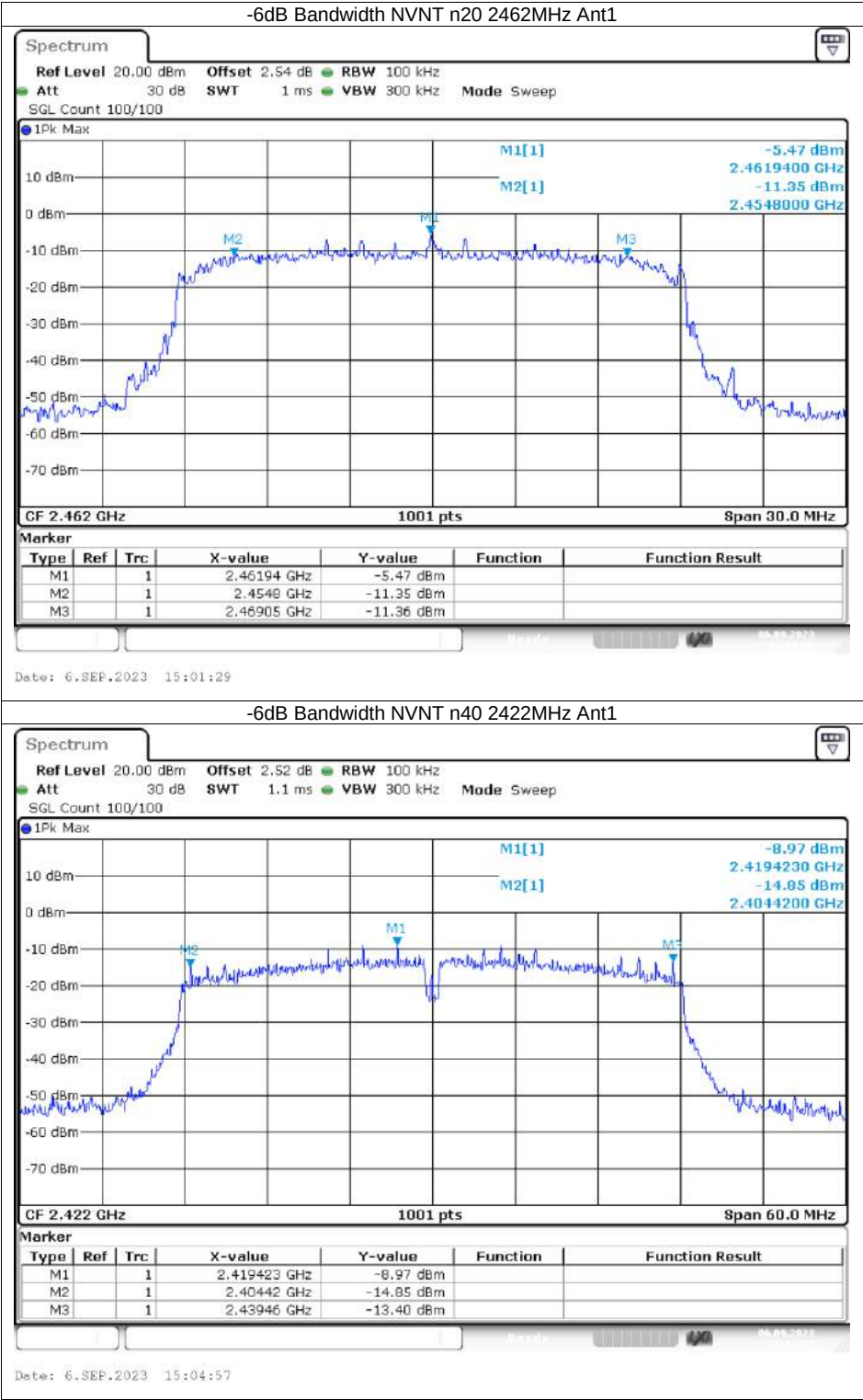
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	13.023	0.5	Pass
NVNT	b	2437	Ant1	12.972	0.5	Pass
NVNT	b	2462	Ant1	12.555	0.5	Pass
NVNT	g	2412	Ant1	16.26	0.5	Pass
NVNT	g	2437	Ant1	15.66	0.5	Pass
NVNT	g	2462	Ant1	15.81	0.5	Pass
NVNT	n20	2412	Ant1	16.98	0.5	Pass
NVNT	n20	2437	Ant1	14.37	0.5	Pass
NVNT	n20	2462	Ant1	14.25	0.5	Pass
NVNT	n40	2422	Ant1	35.04	0.5	Pass
NVNT	n40	2437	Ant1	35.16	0.5	Pass
NVNT	n40	2452	Ant1	35.034	0.5	Pass

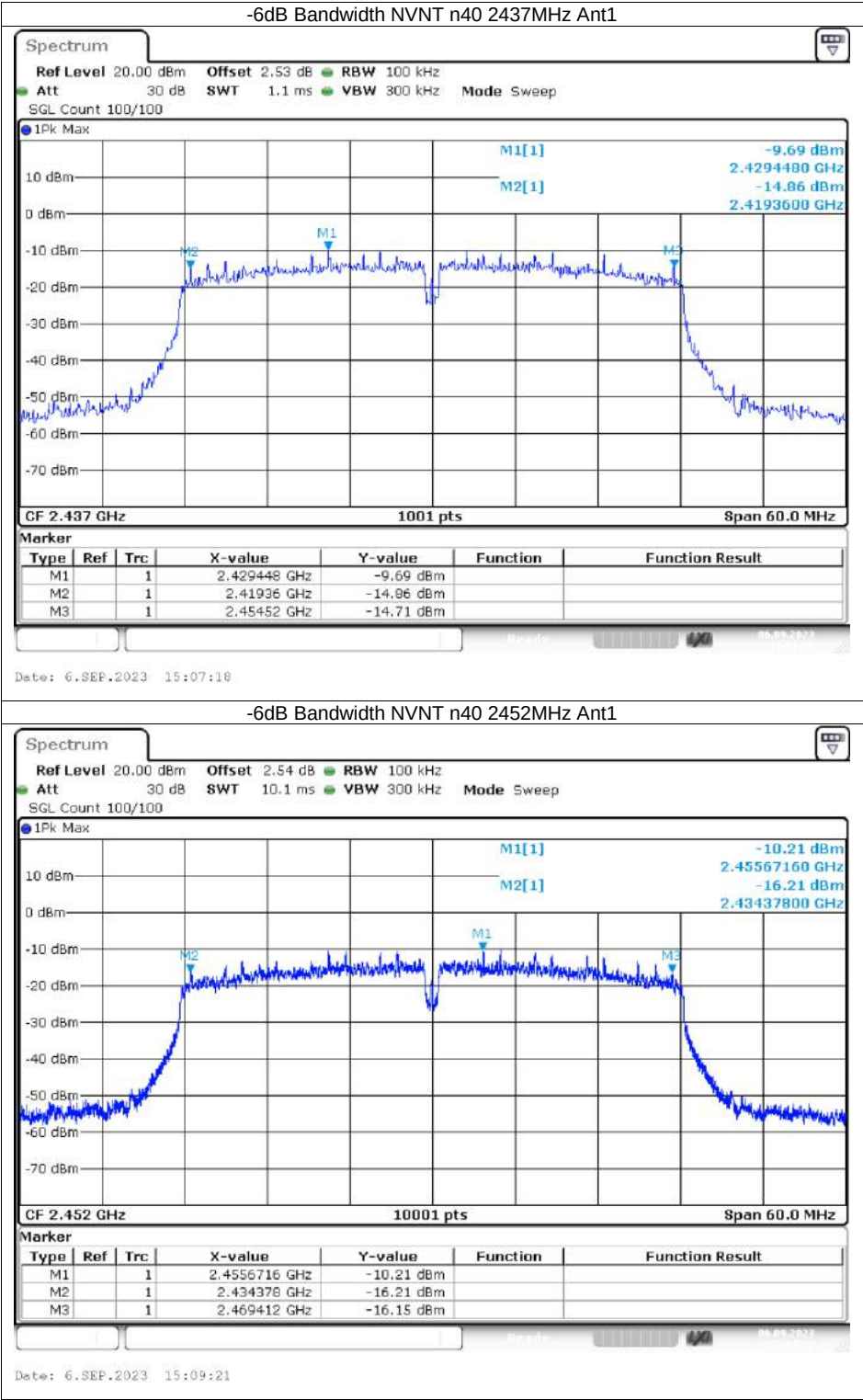






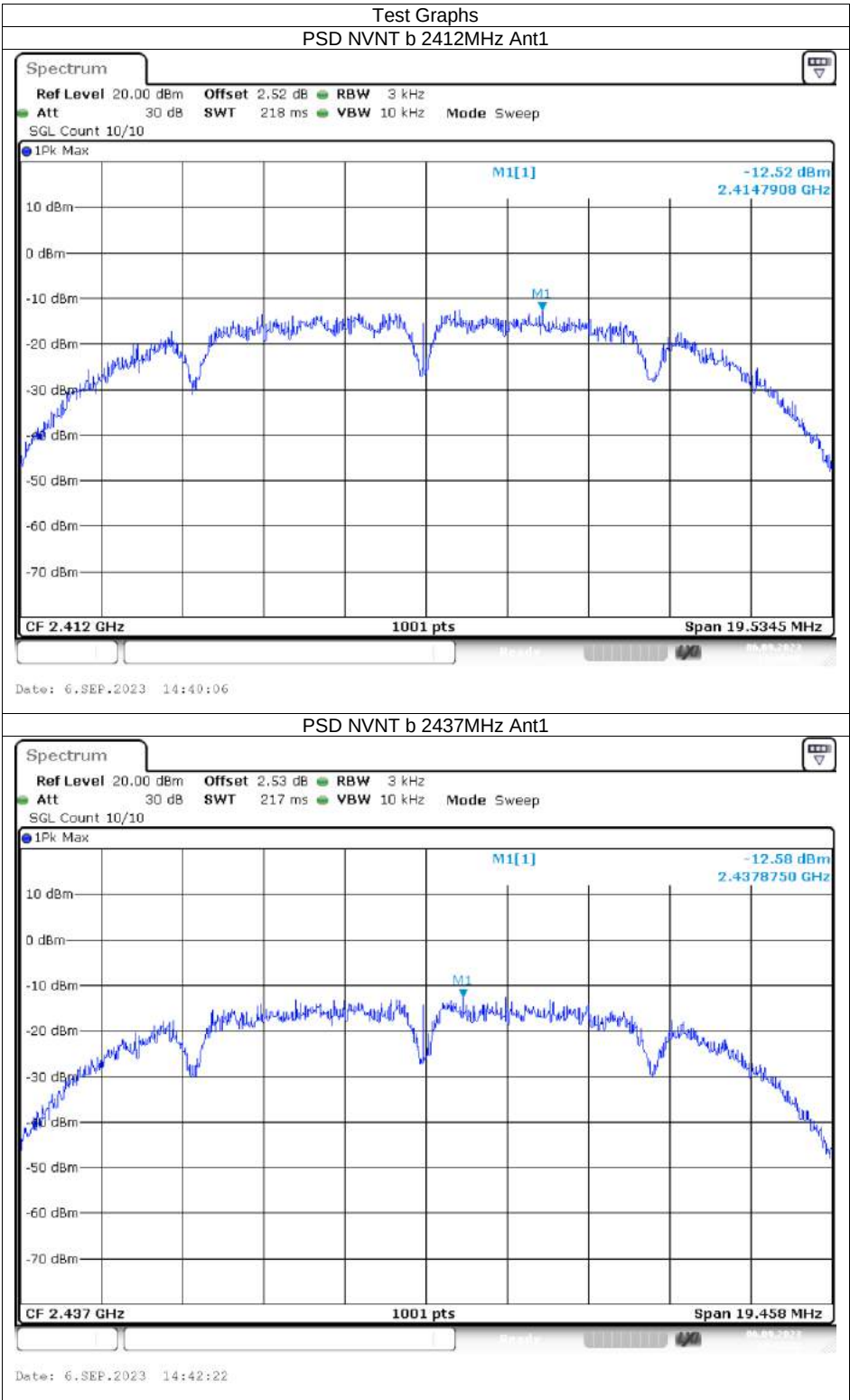


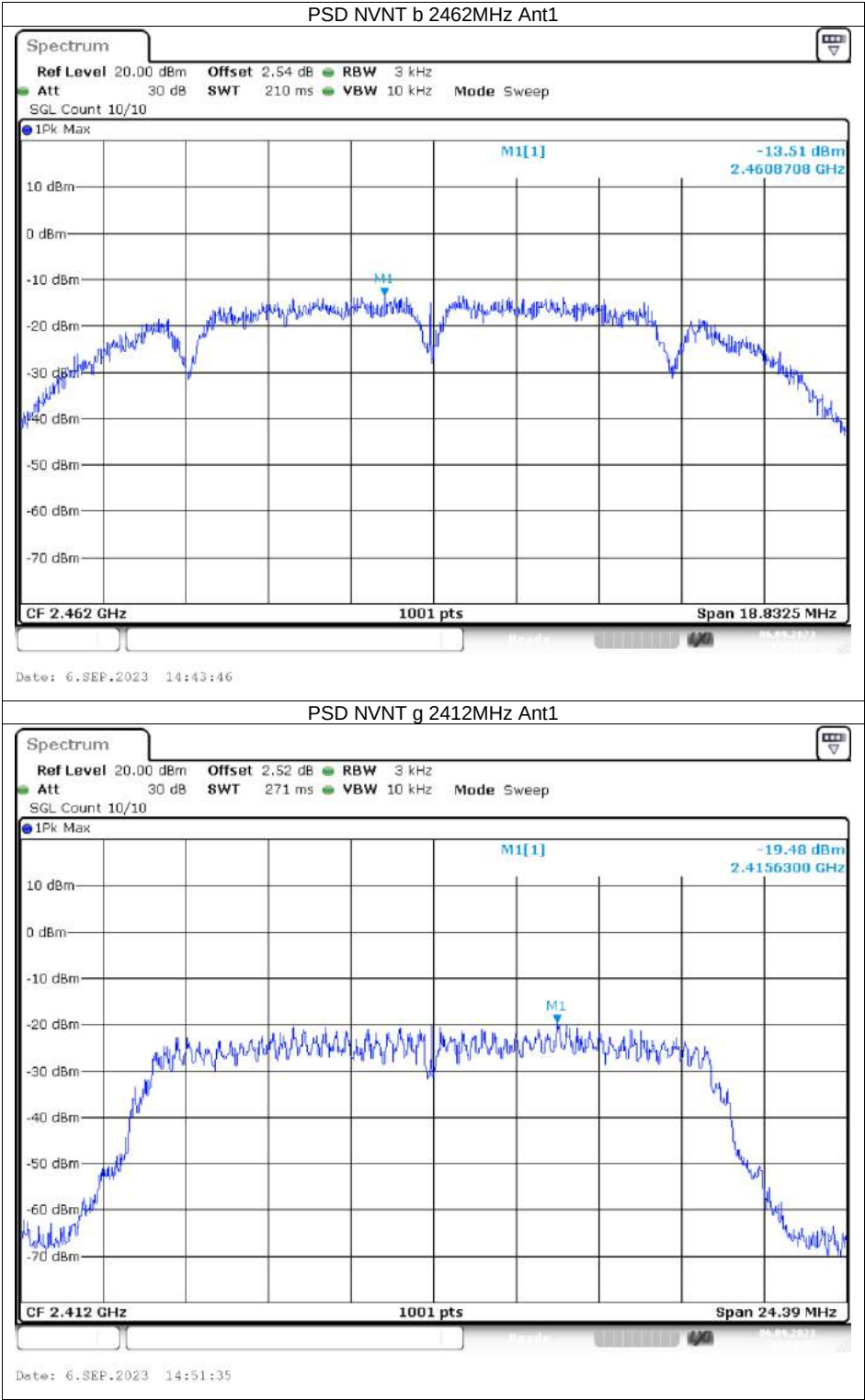


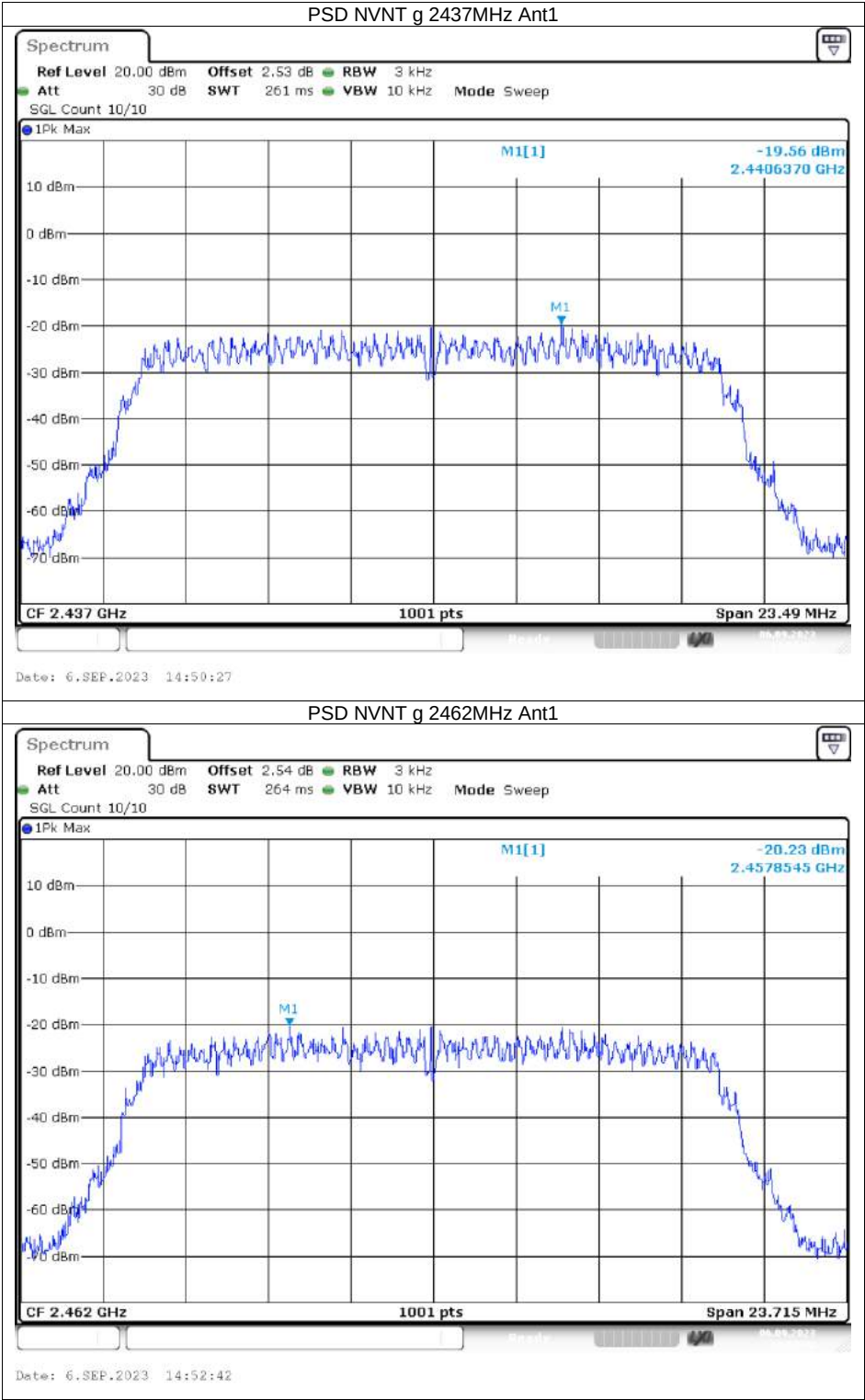


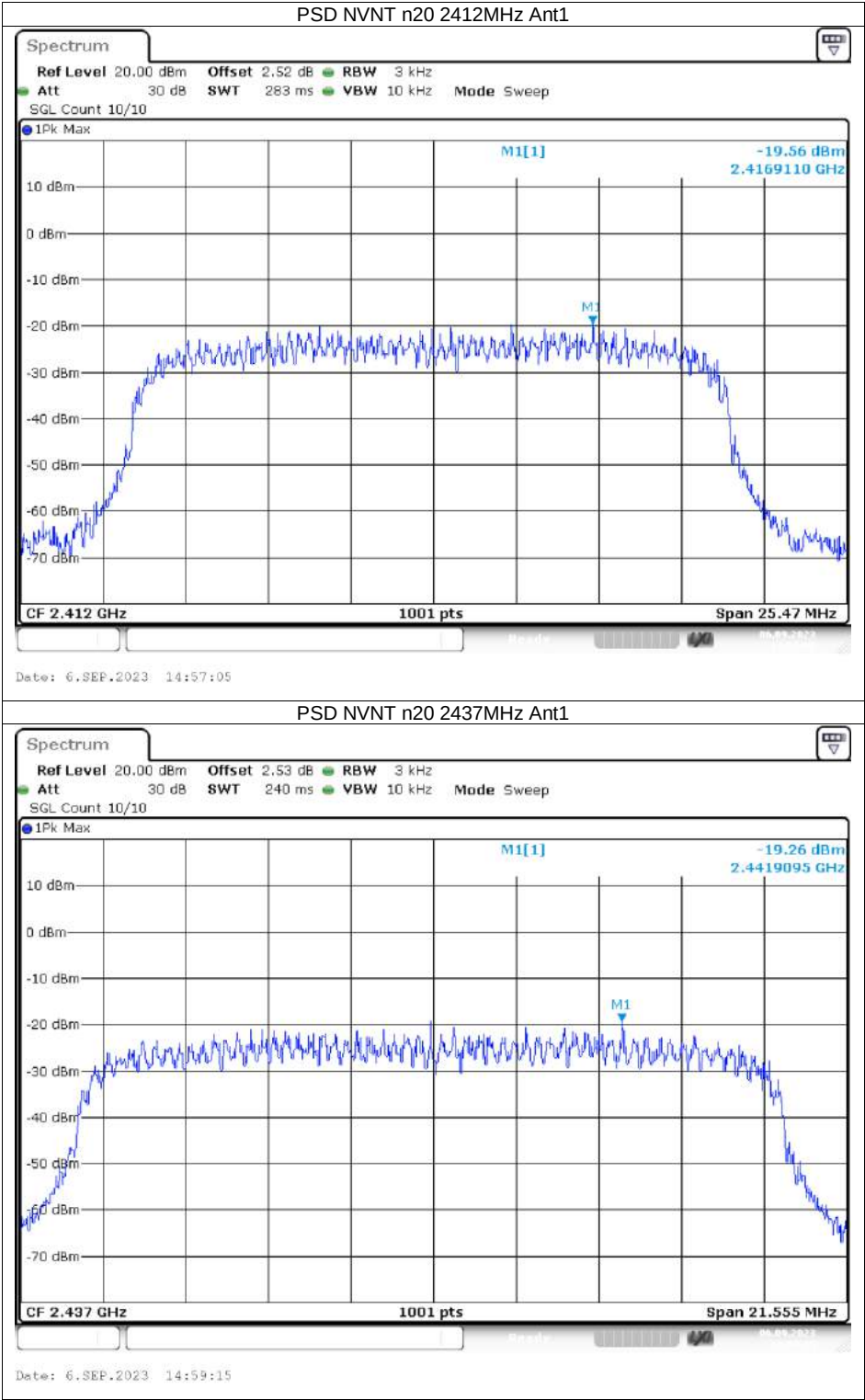
Maximum Power Spectral Density Level

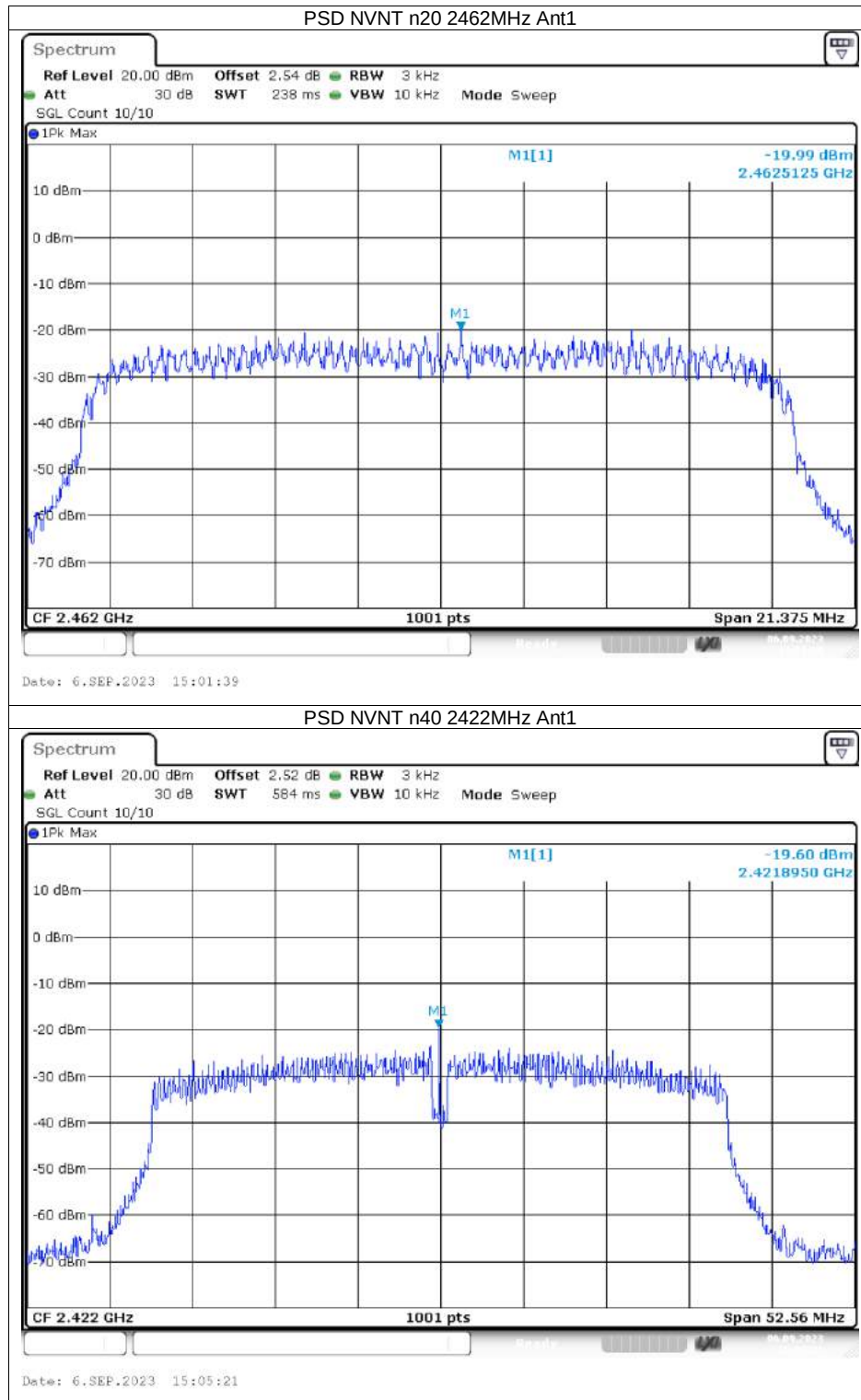
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-12.52	0	-12.52	8	Pass
NVNT	b	2437	Ant1	-12.58	0	-12.58	8	Pass
NVNT	b	2462	Ant1	-13.51	0	-13.51	8	Pass
NVNT	g	2412	Ant1	-19.48	0	-19.48	8	Pass
NVNT	g	2437	Ant1	-19.56	0	-19.56	8	Pass
NVNT	g	2462	Ant1	-20.23	0	-20.23	8	Pass
NVNT	n20	2412	Ant1	-19.56	0	-19.56	8	Pass
NVNT	n20	2437	Ant1	-19.26	0	-19.26	8	Pass
NVNT	n20	2462	Ant1	-19.99	0	-19.99	8	Pass
NVNT	n40	2422	Ant1	-19.6	0	-19.6	8	Pass
NVNT	n40	2437	Ant1	-21.22	0	-21.22	8	Pass
NVNT	n40	2452	Ant1	-20.76	0	-20.76	8	Pass

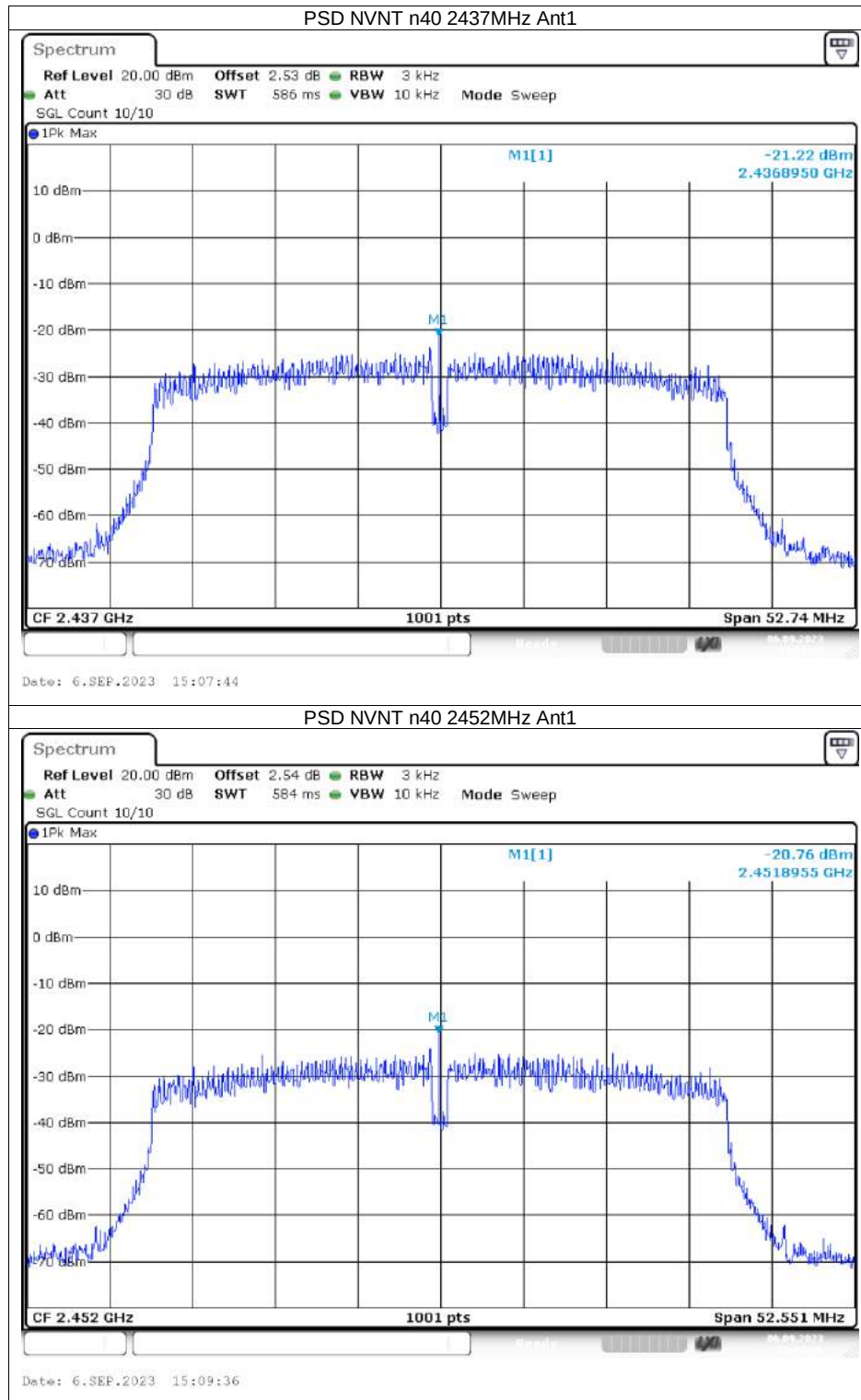






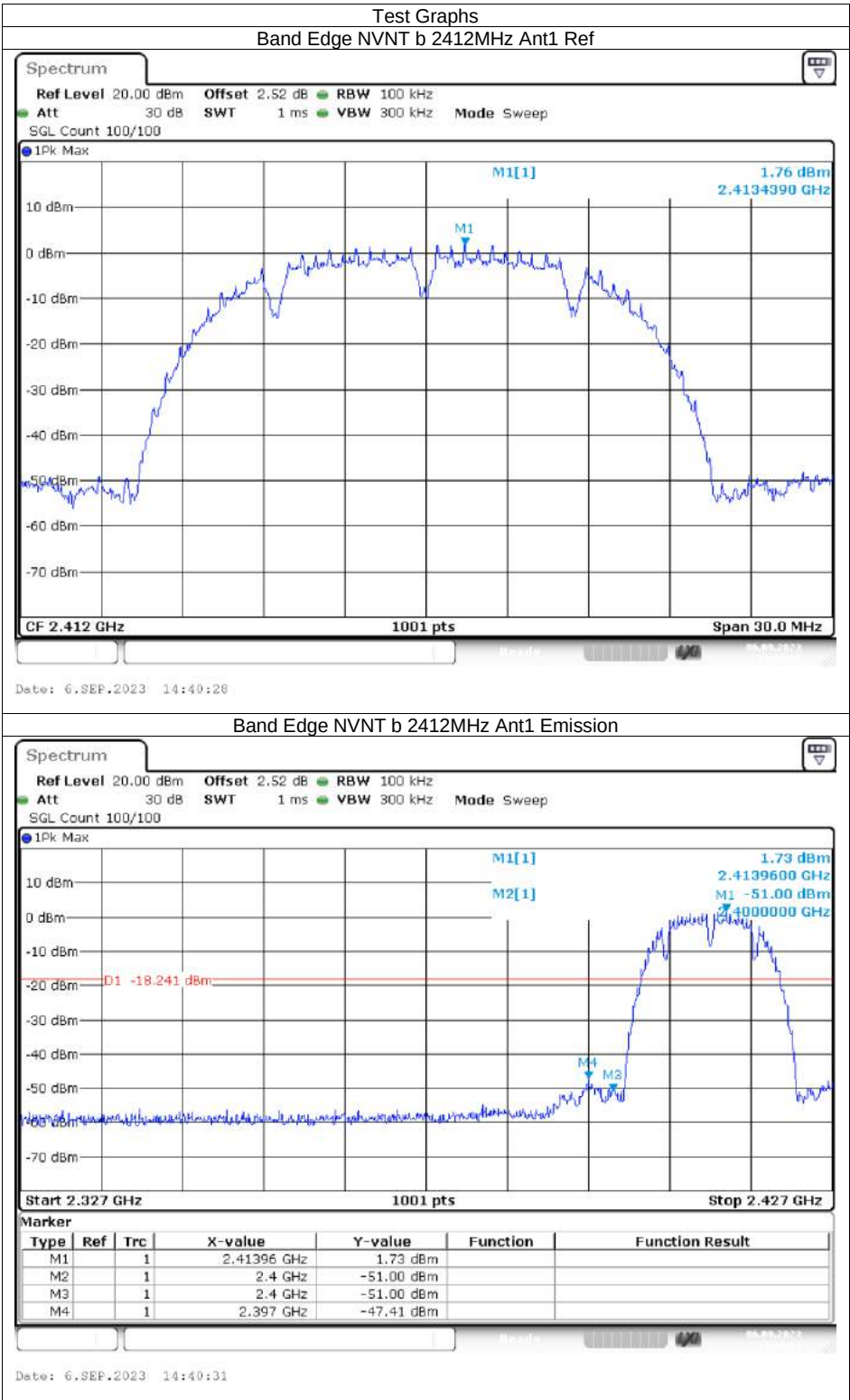


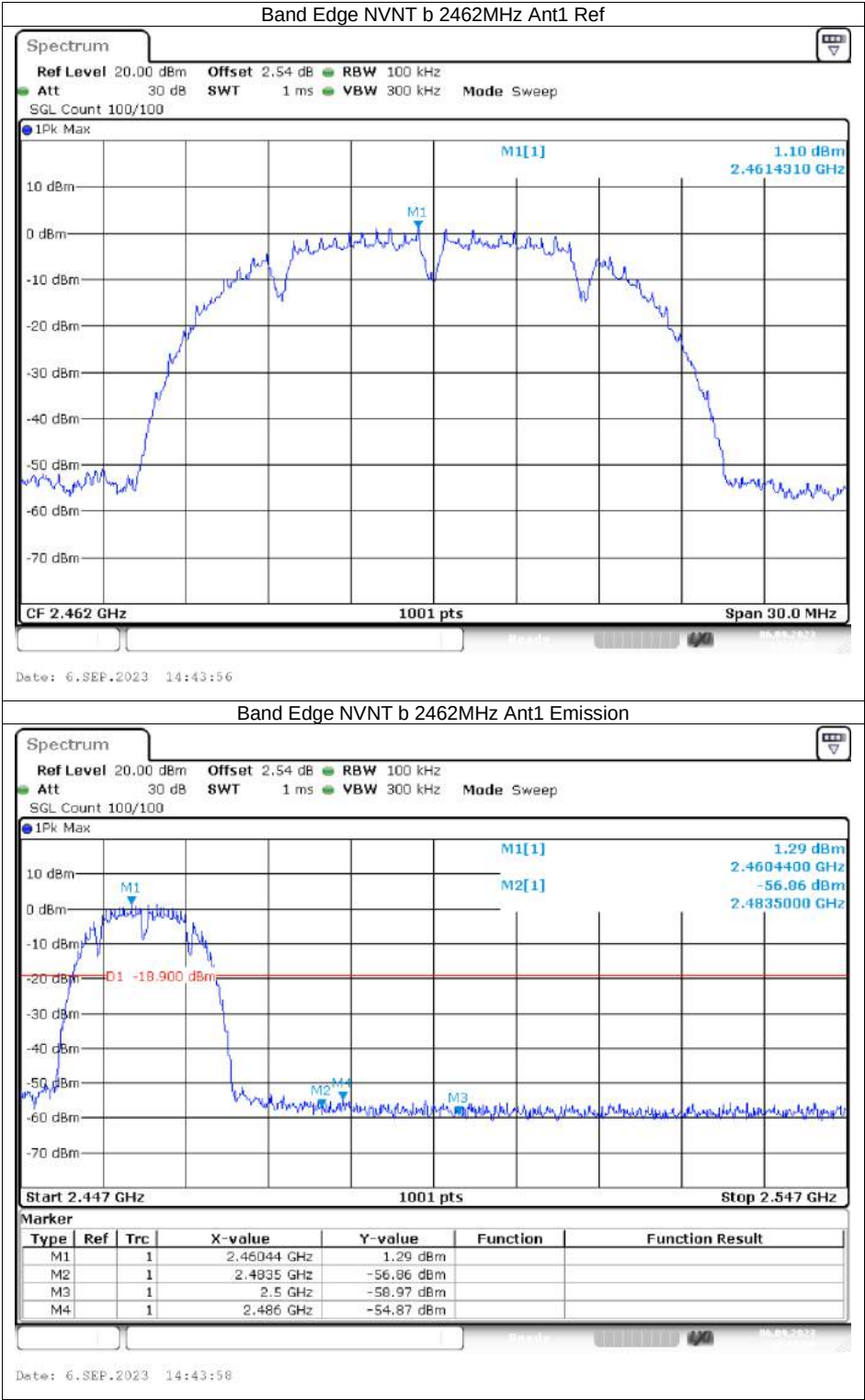


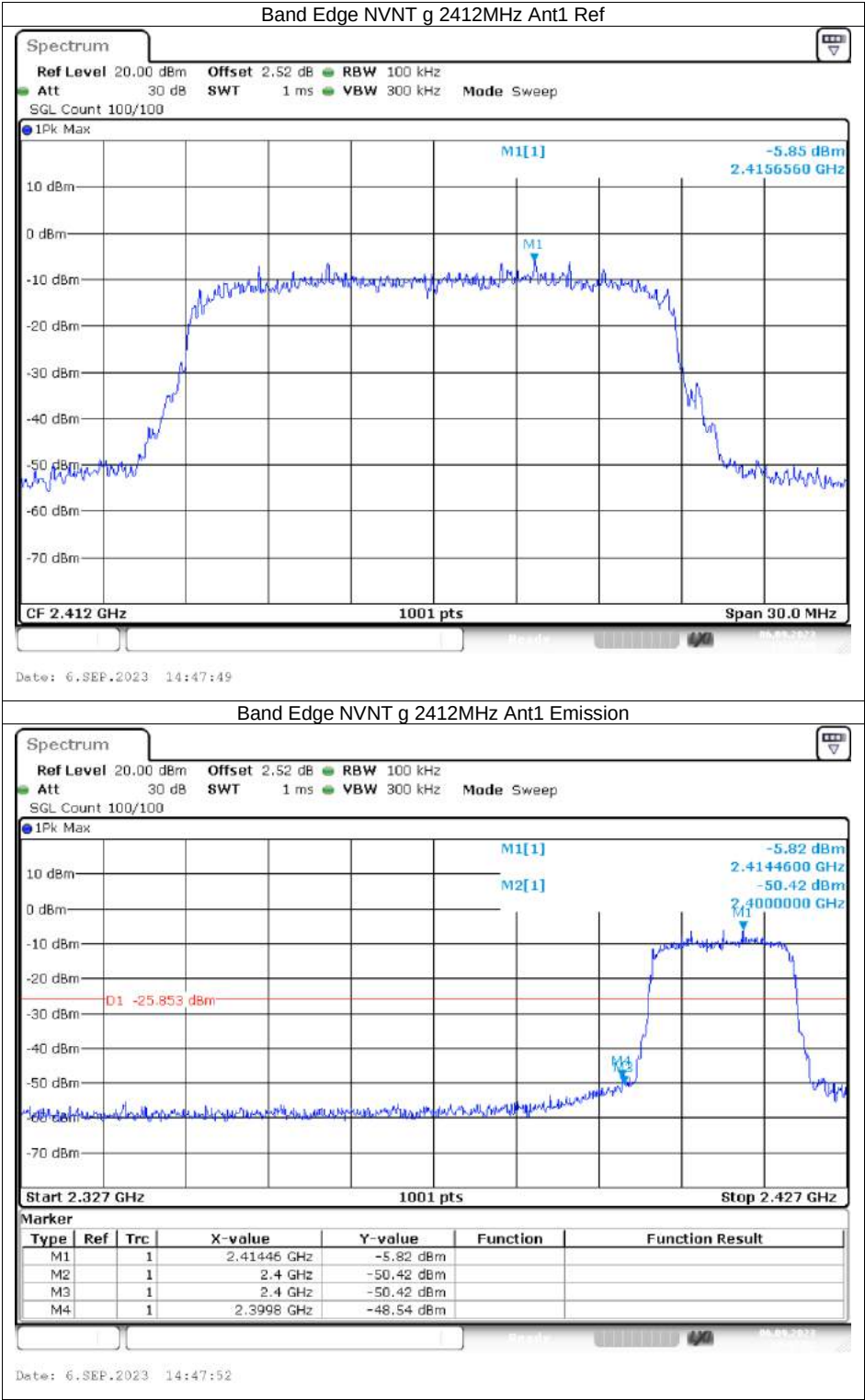


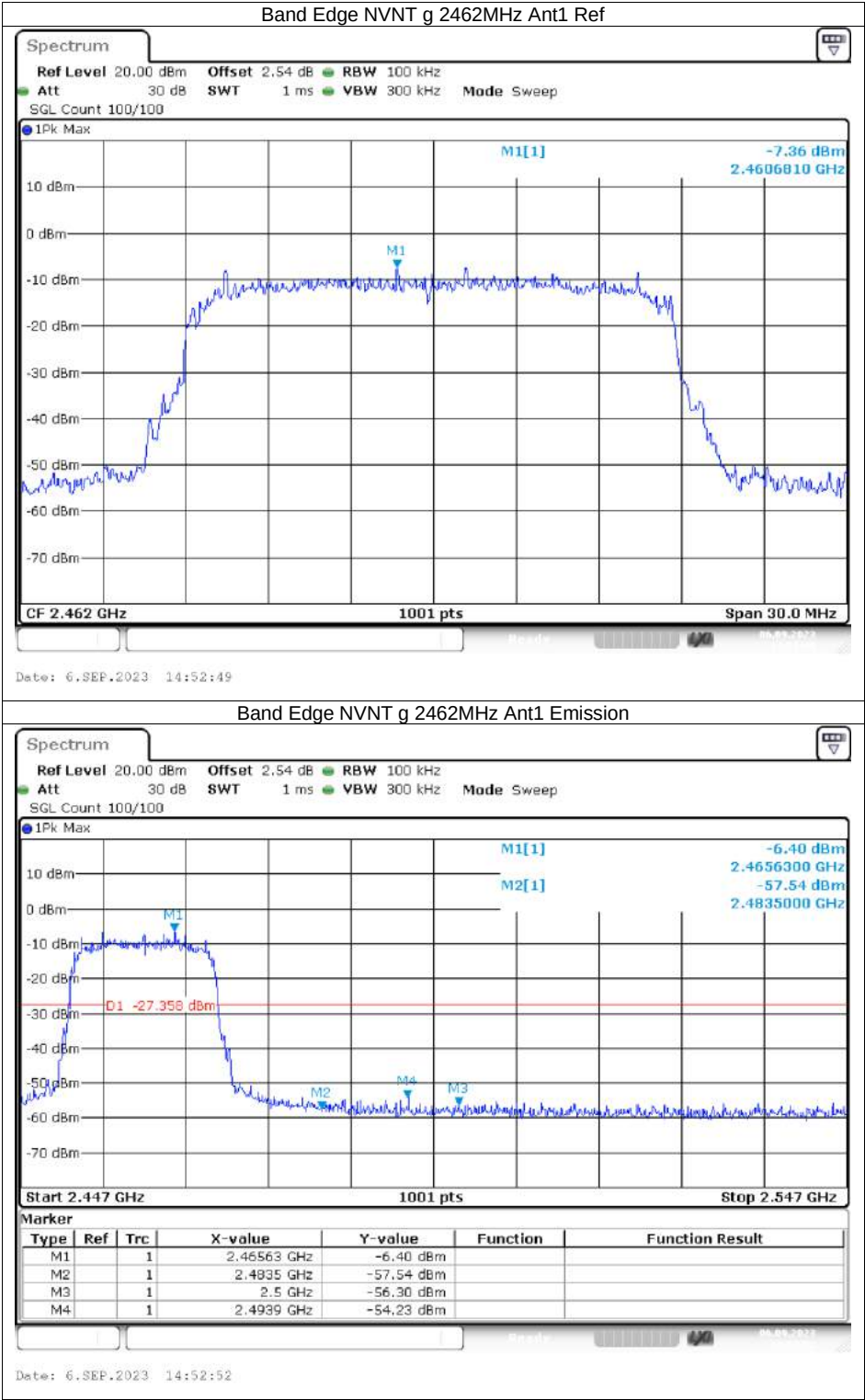
Band Edge

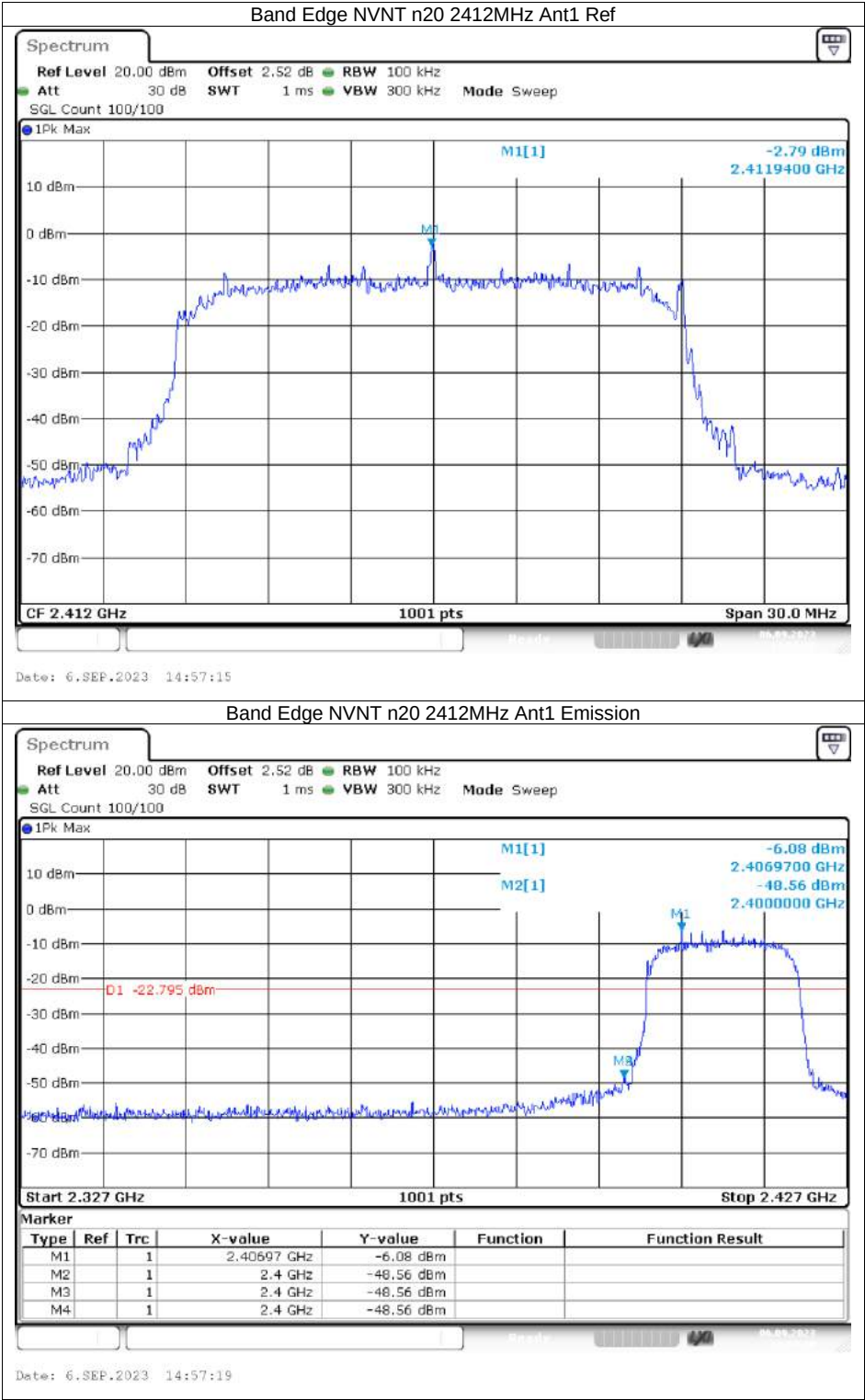
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.17	-20	Pass
NVNT	b	2462	Ant1	-55.96	-20	Pass
NVNT	g	2412	Ant1	-42.69	-20	Pass
NVNT	g	2462	Ant1	-46.86	-20	Pass
NVNT	n20	2412	Ant1	-45.76	-20	Pass
NVNT	n20	2462	Ant1	-46.31	-20	Pass
NVNT	n40	2422	Ant1	-38.97	-20	Pass
NVNT	n40	2452	Ant1	-43.29	-20	Pass

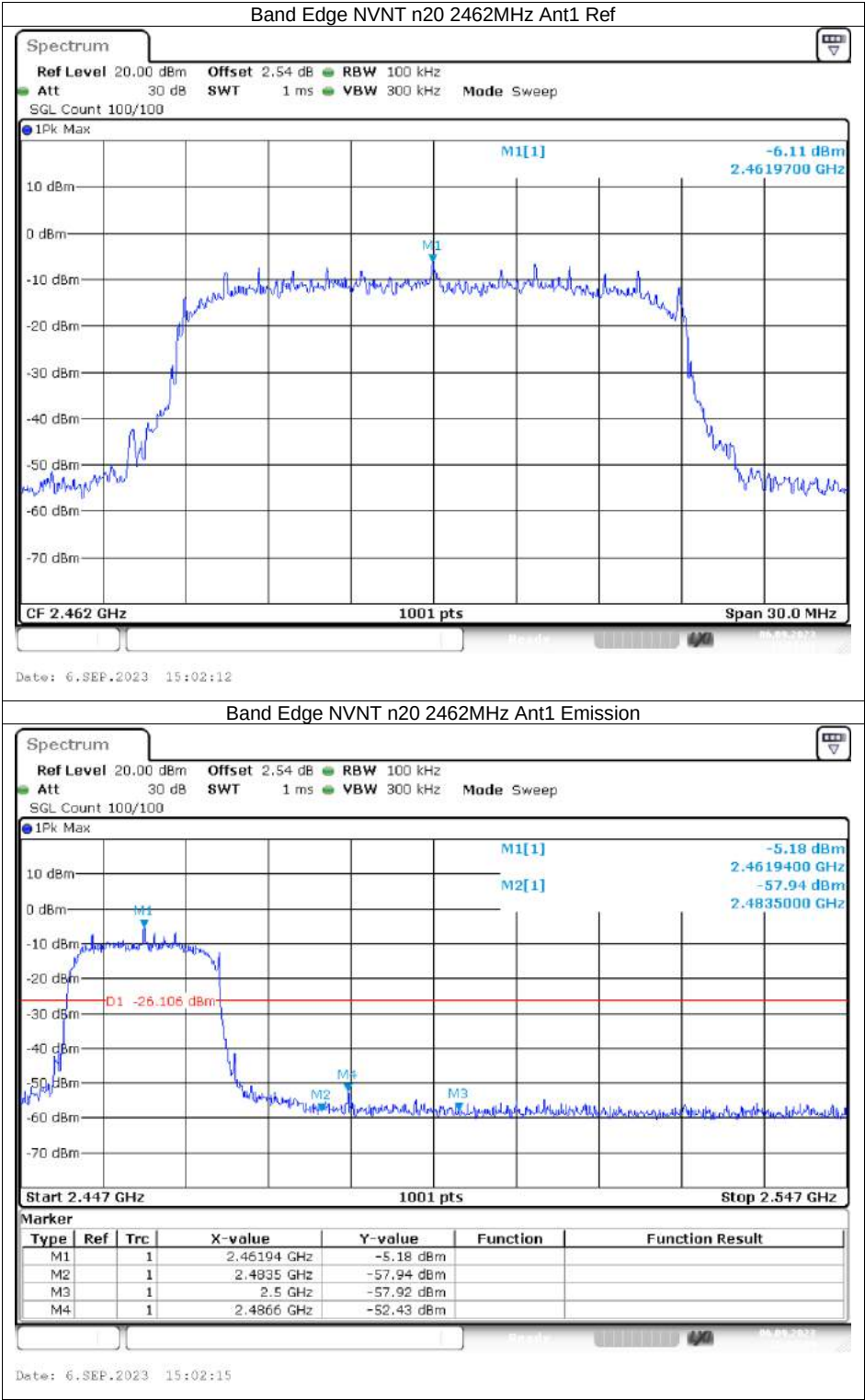


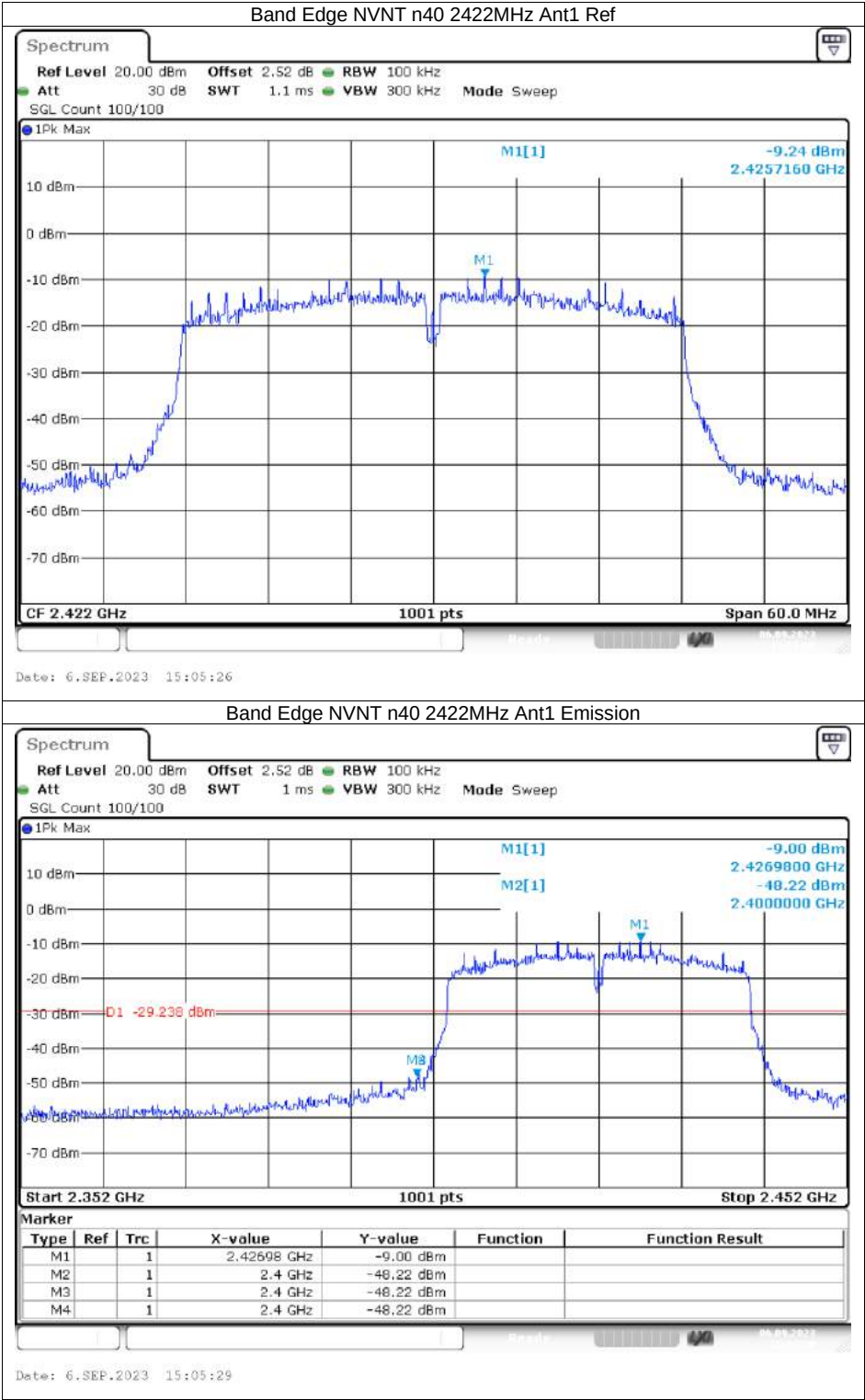


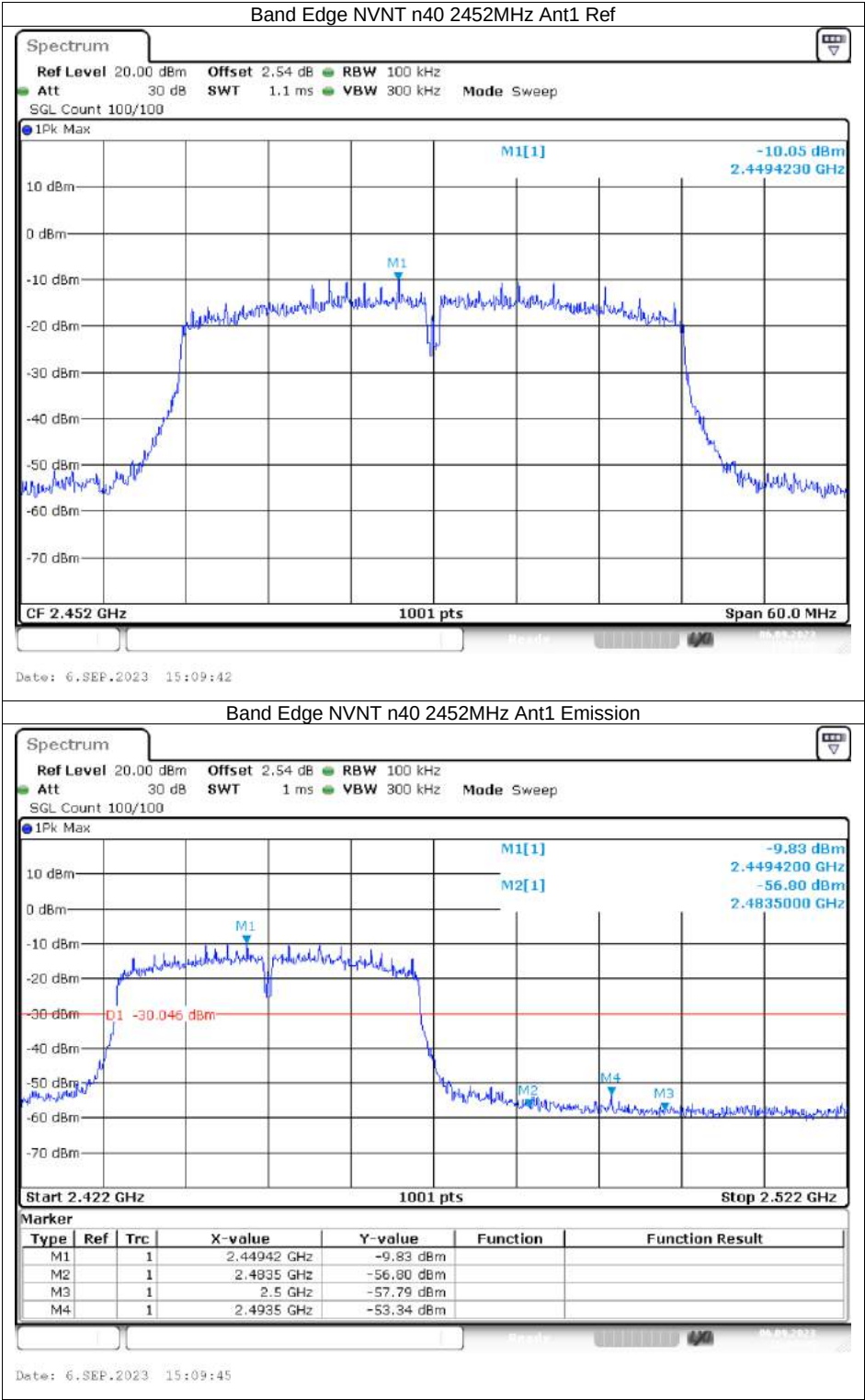






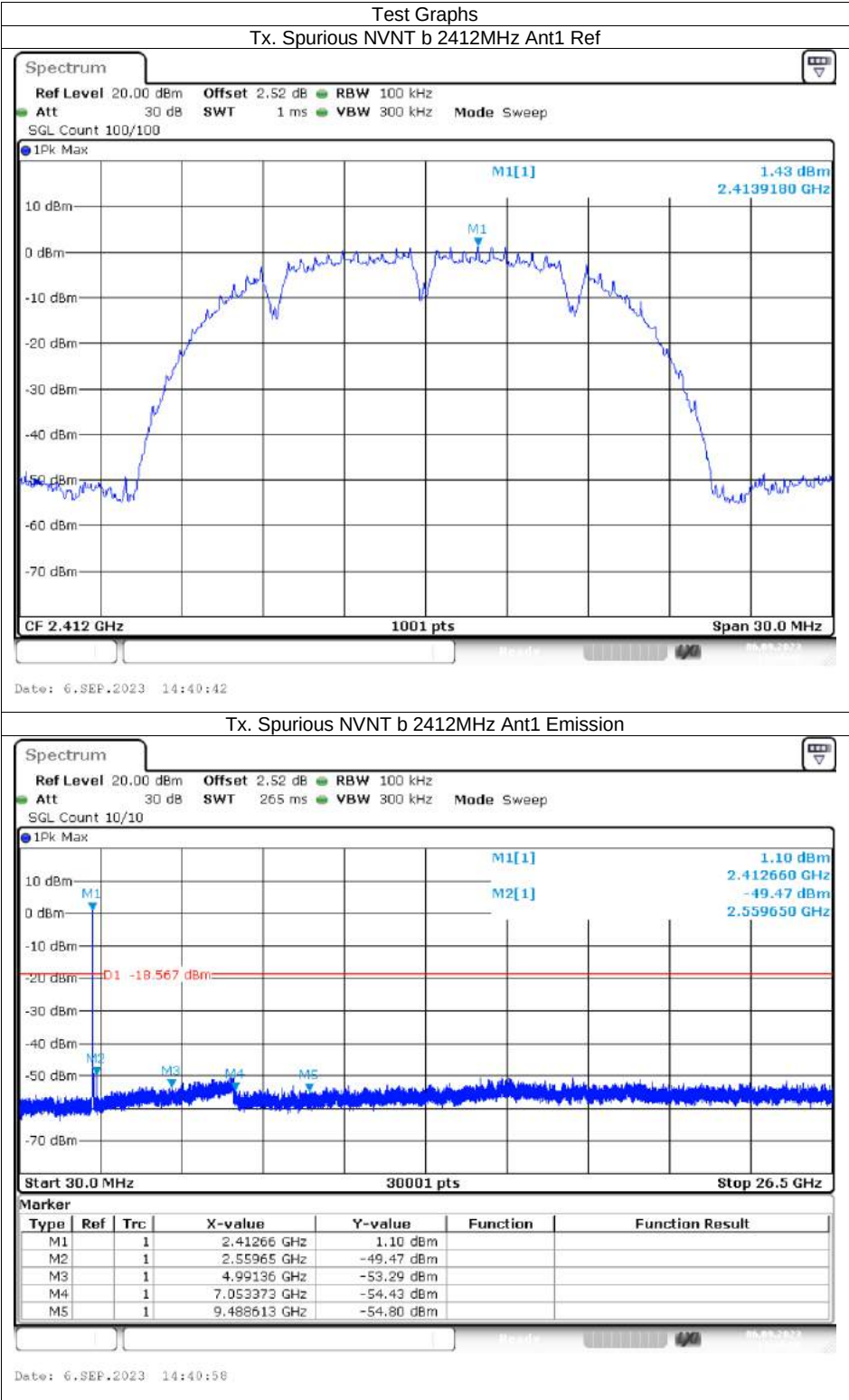


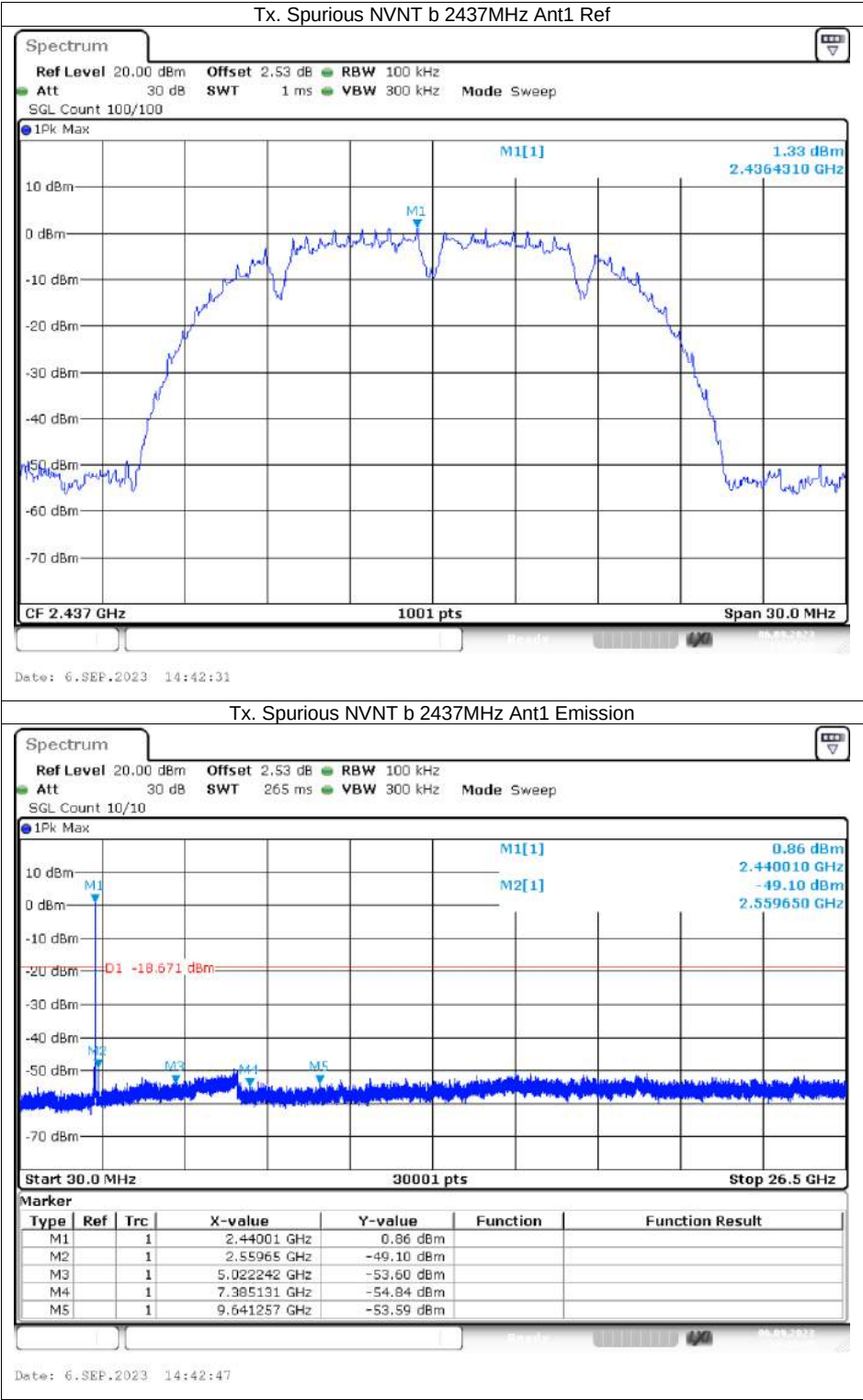


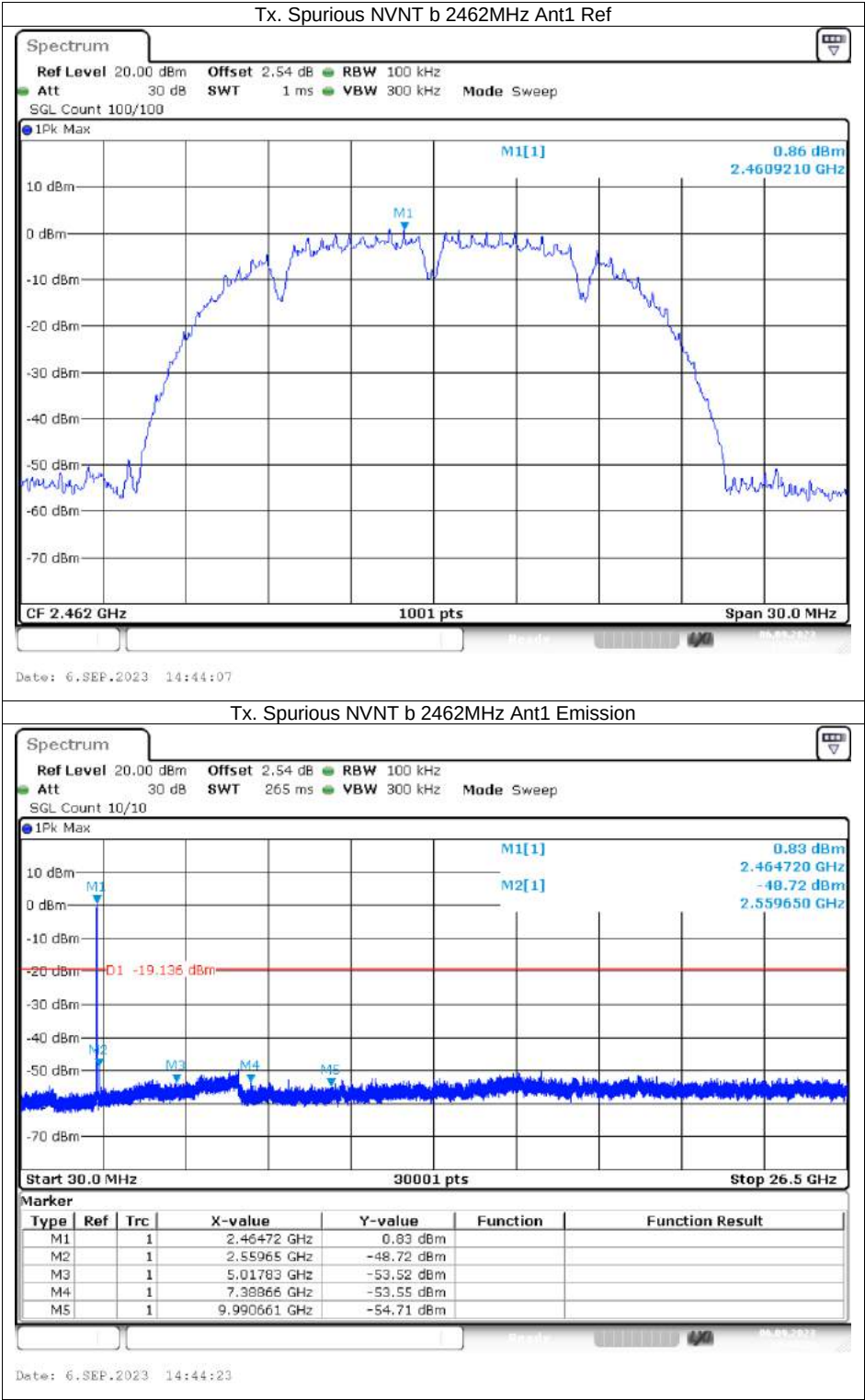


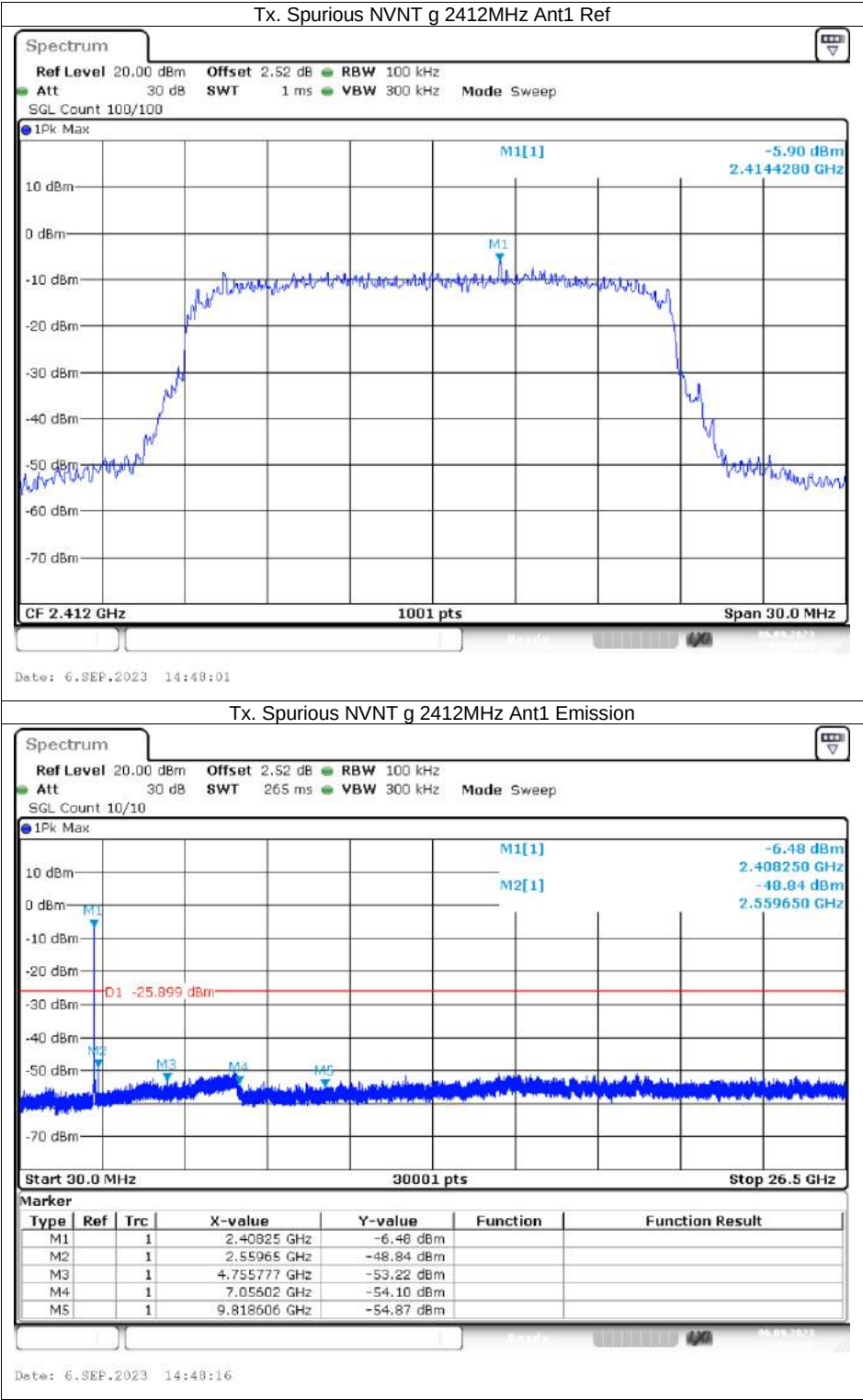
Conducted RF Spurious Emission

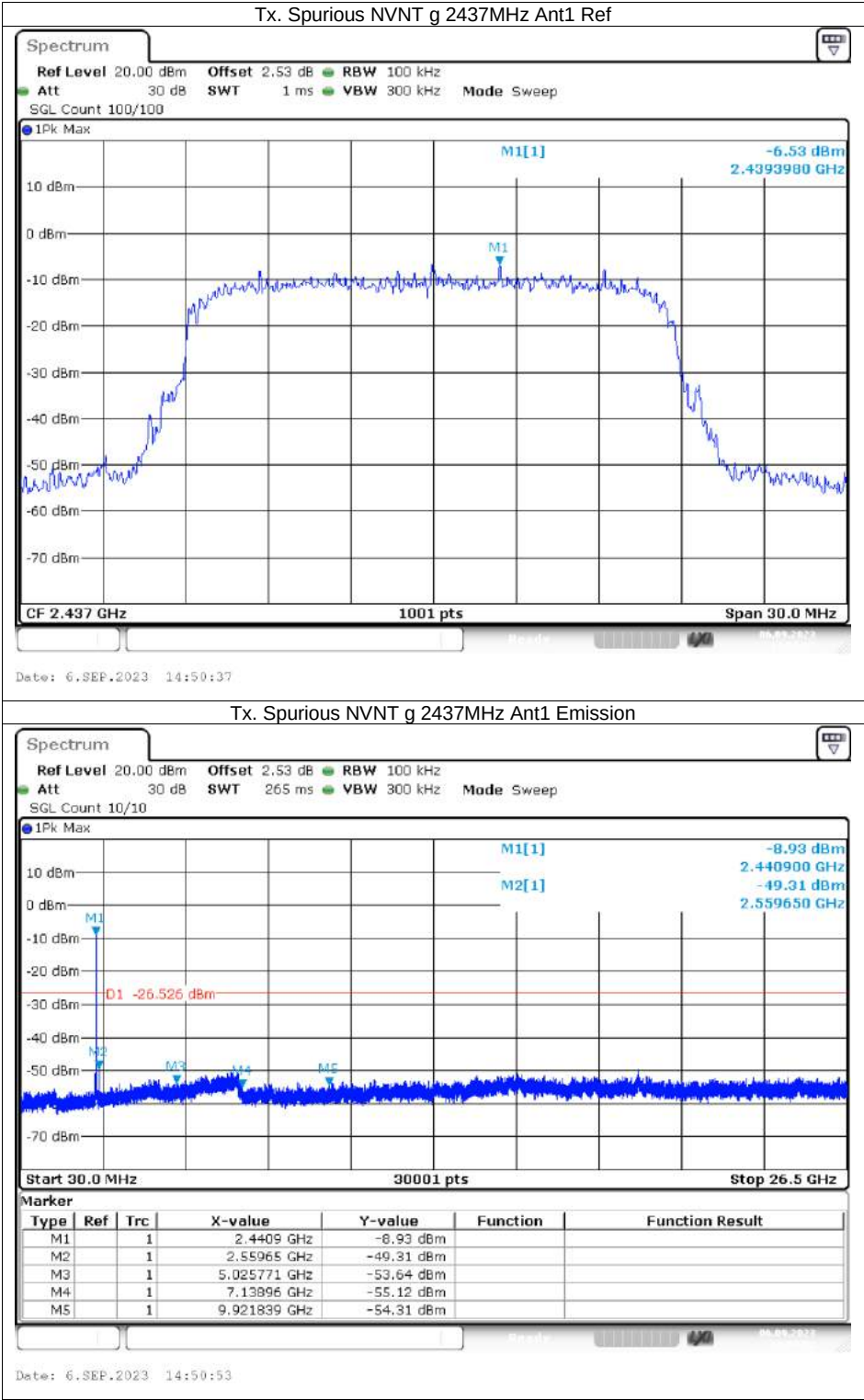
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.9	-20	Pass
NVNT	b	2437	Ant1	-50.42	-20	Pass
NVNT	b	2462	Ant1	-49.58	-20	Pass
NVNT	g	2412	Ant1	-42.93	-20	Pass
NVNT	g	2437	Ant1	-42.78	-20	Pass
NVNT	g	2462	Ant1	-43.11	-20	Pass
NVNT	n20	2412	Ant1	-45.11	-20	Pass
NVNT	n20	2437	Ant1	-42.93	-20	Pass
NVNT	n20	2462	Ant1	-44.19	-20	Pass
NVNT	n40	2422	Ant1	-40.82	-20	Pass
NVNT	n40	2437	Ant1	-38.92	-20	Pass
NVNT	n40	2452	Ant1	-39.62	-20	Pass

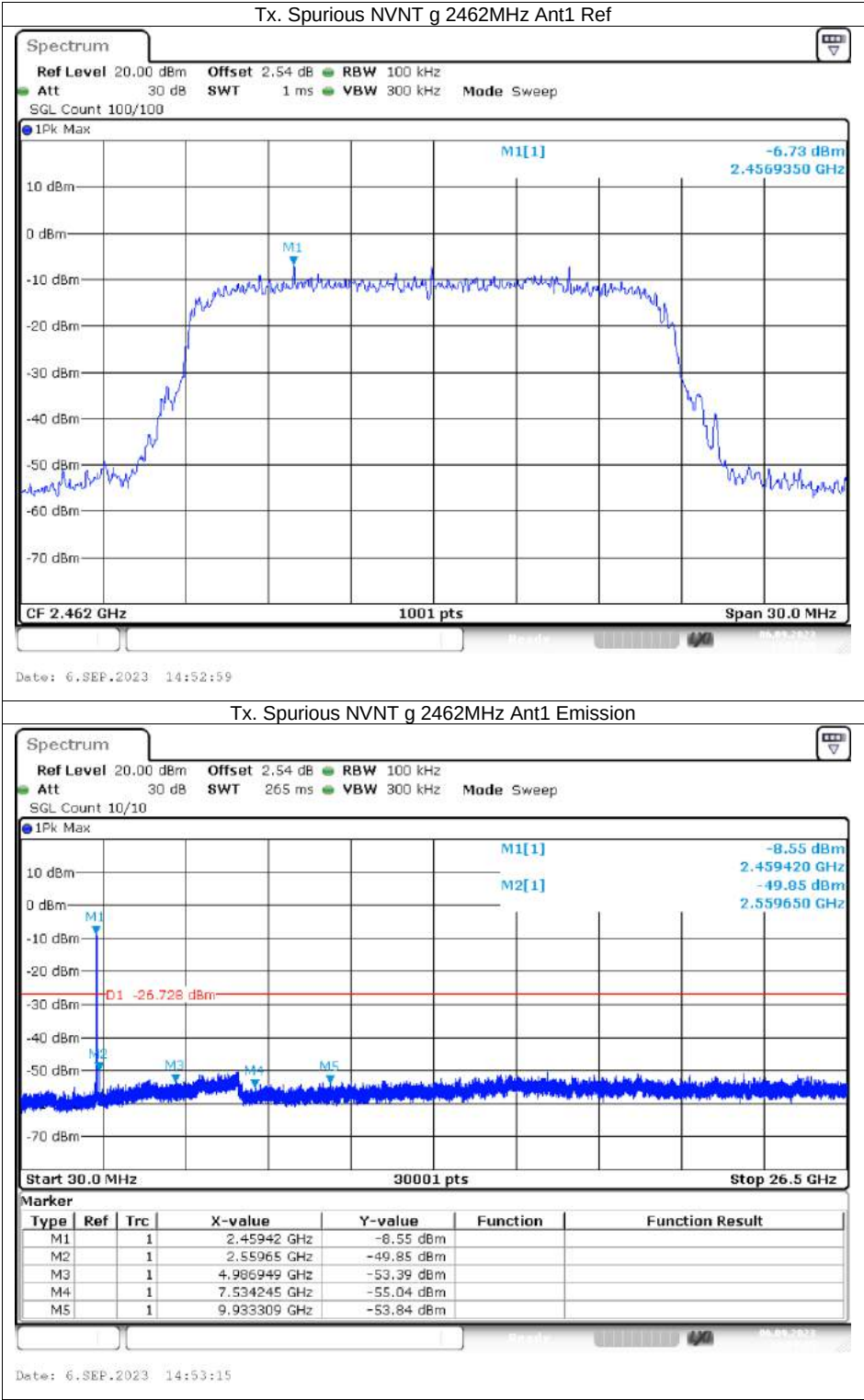


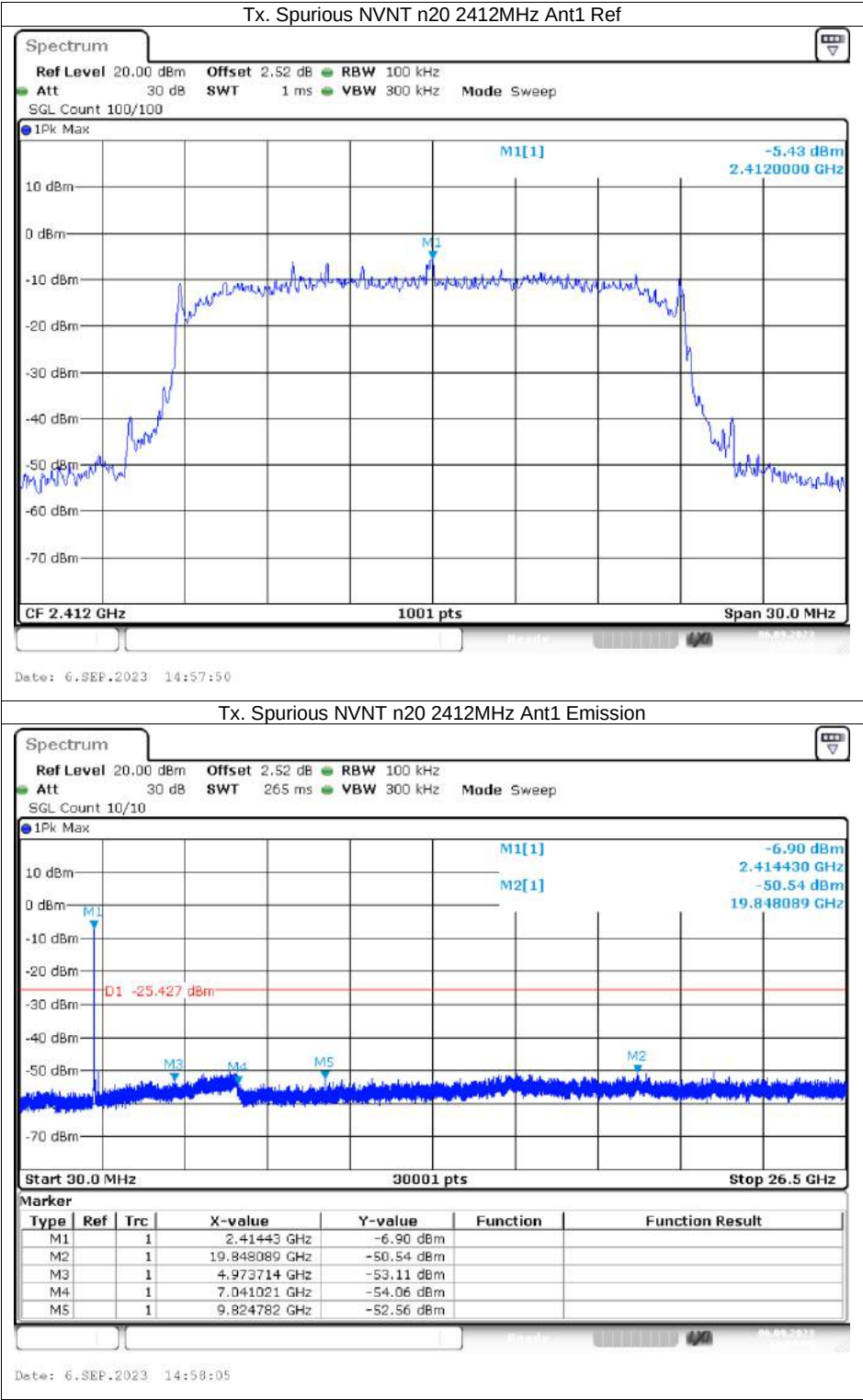


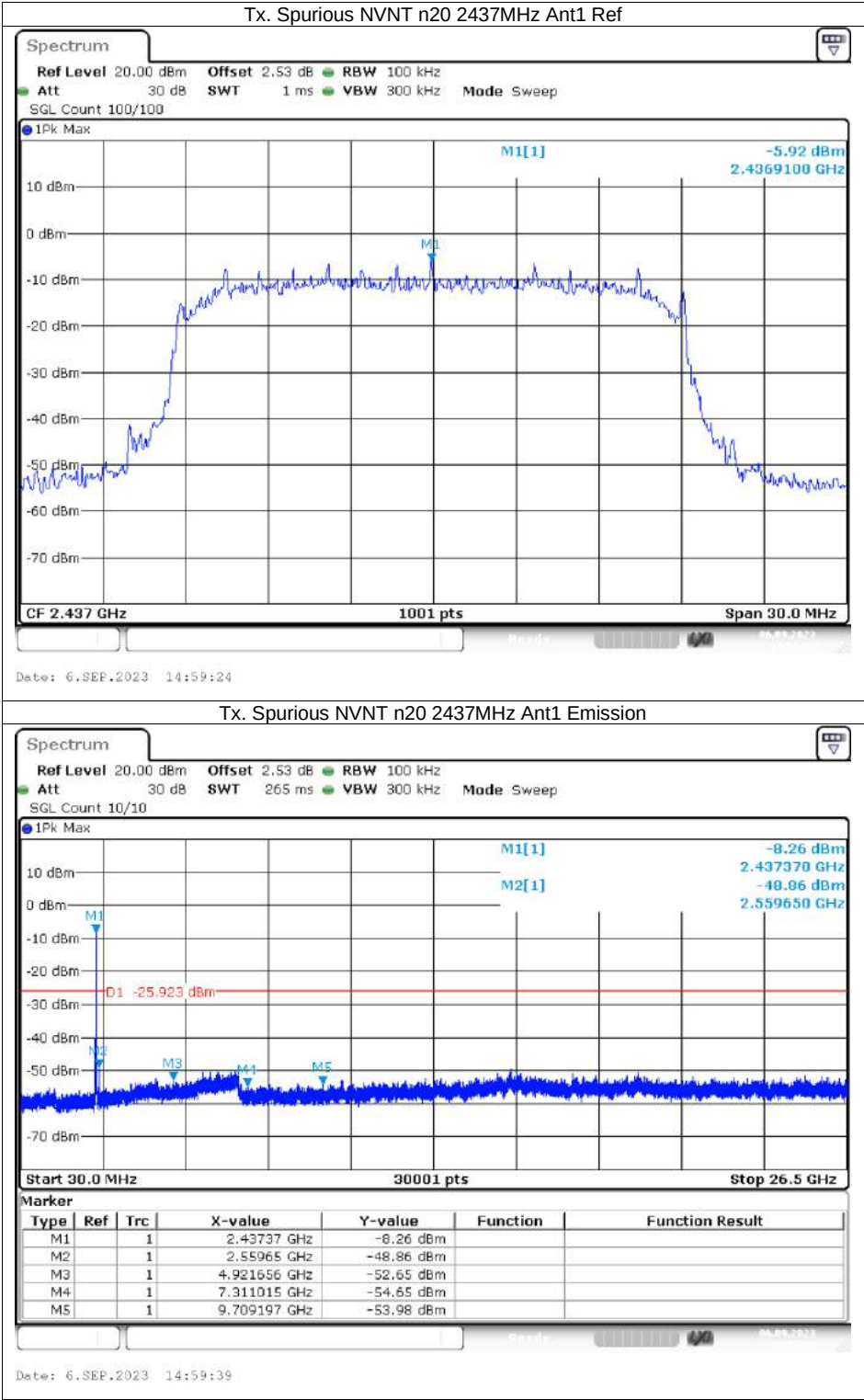


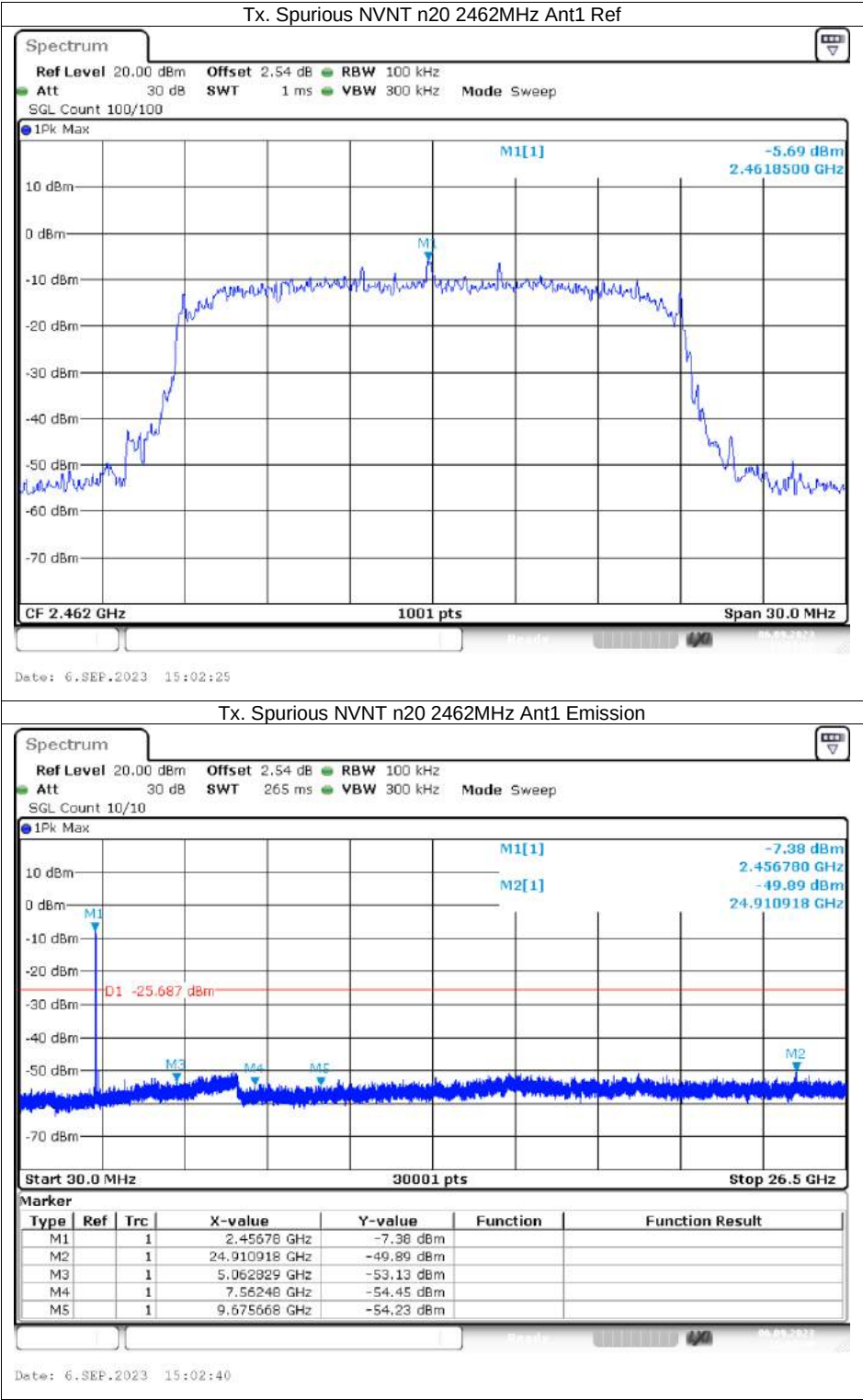


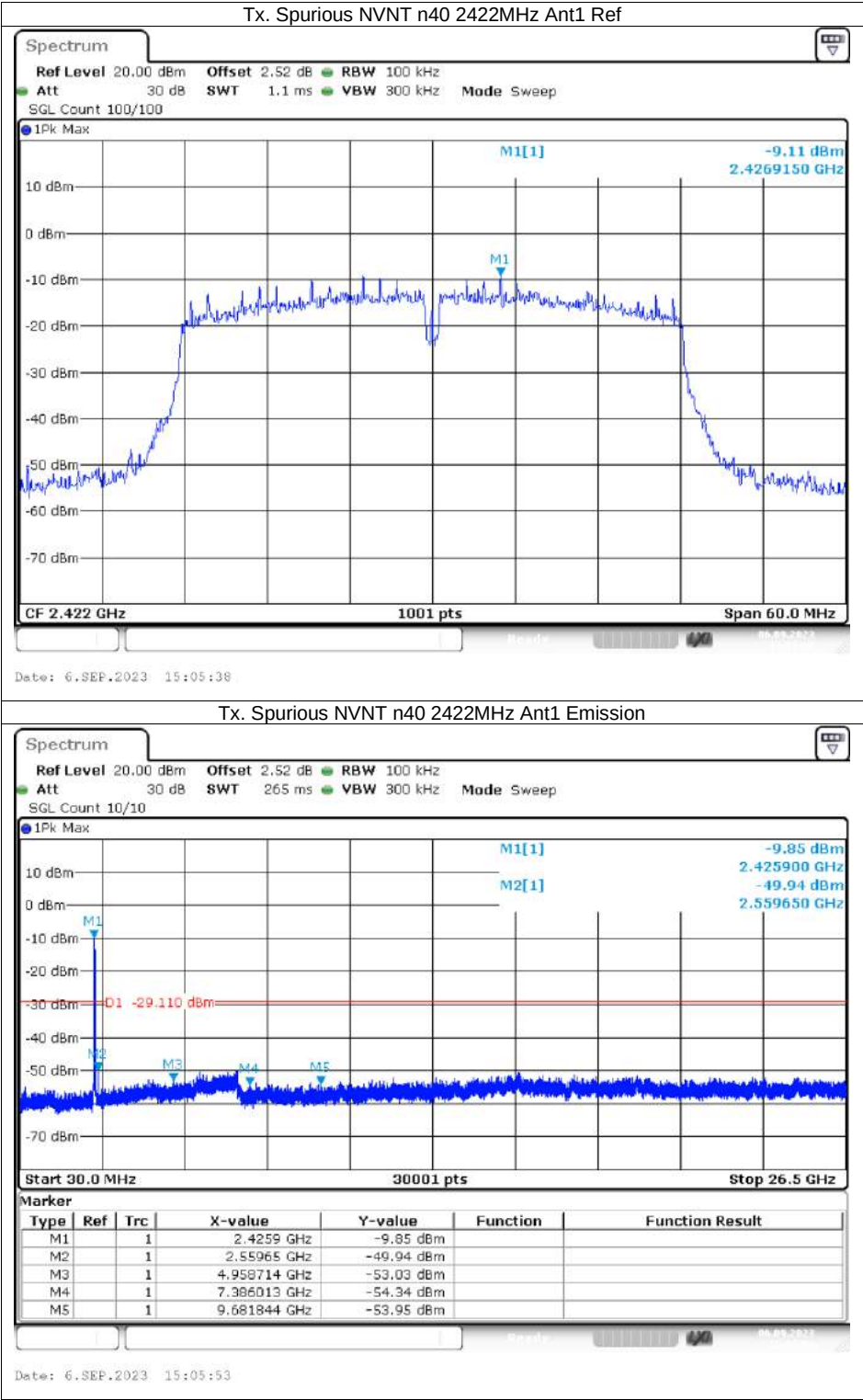


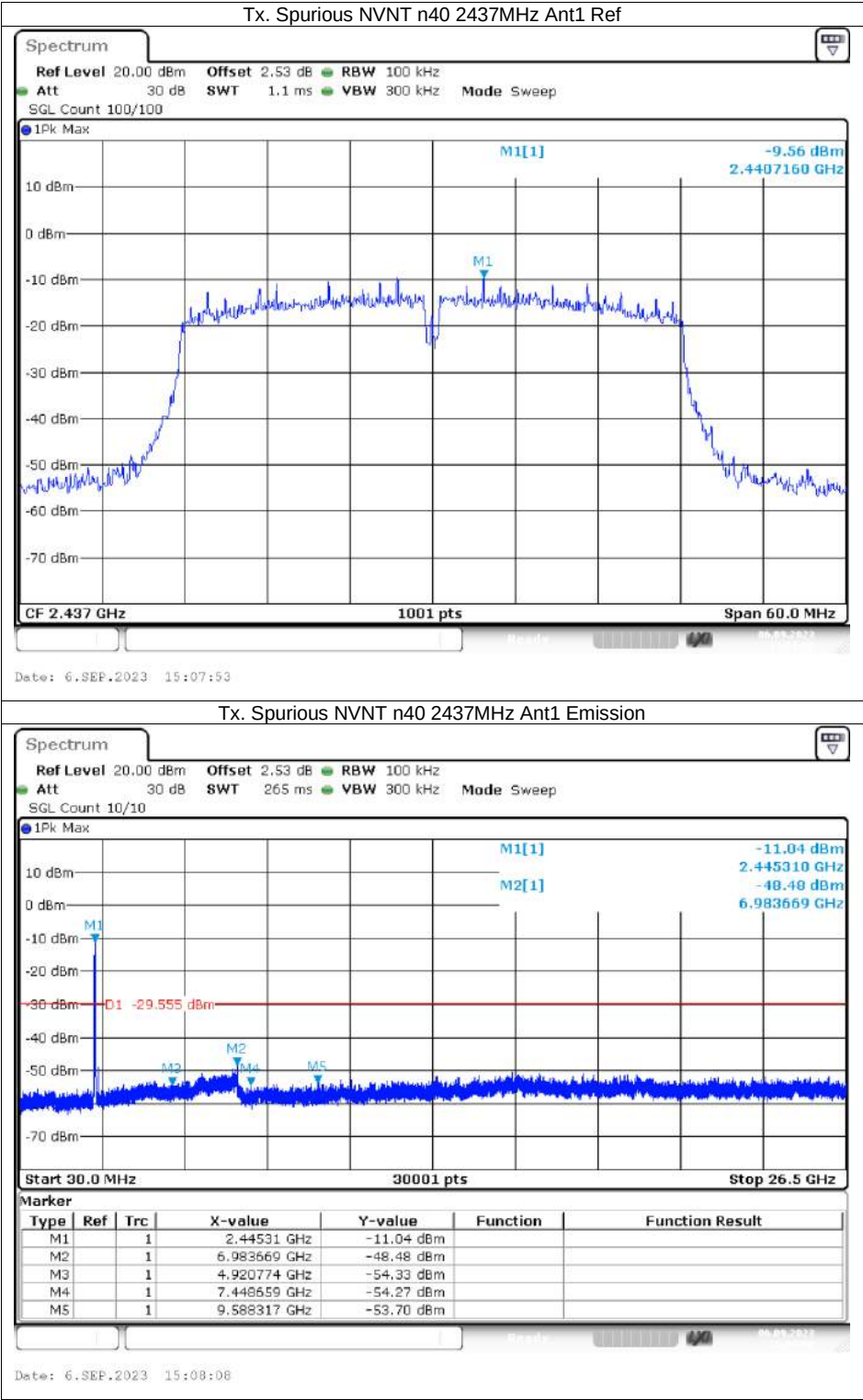


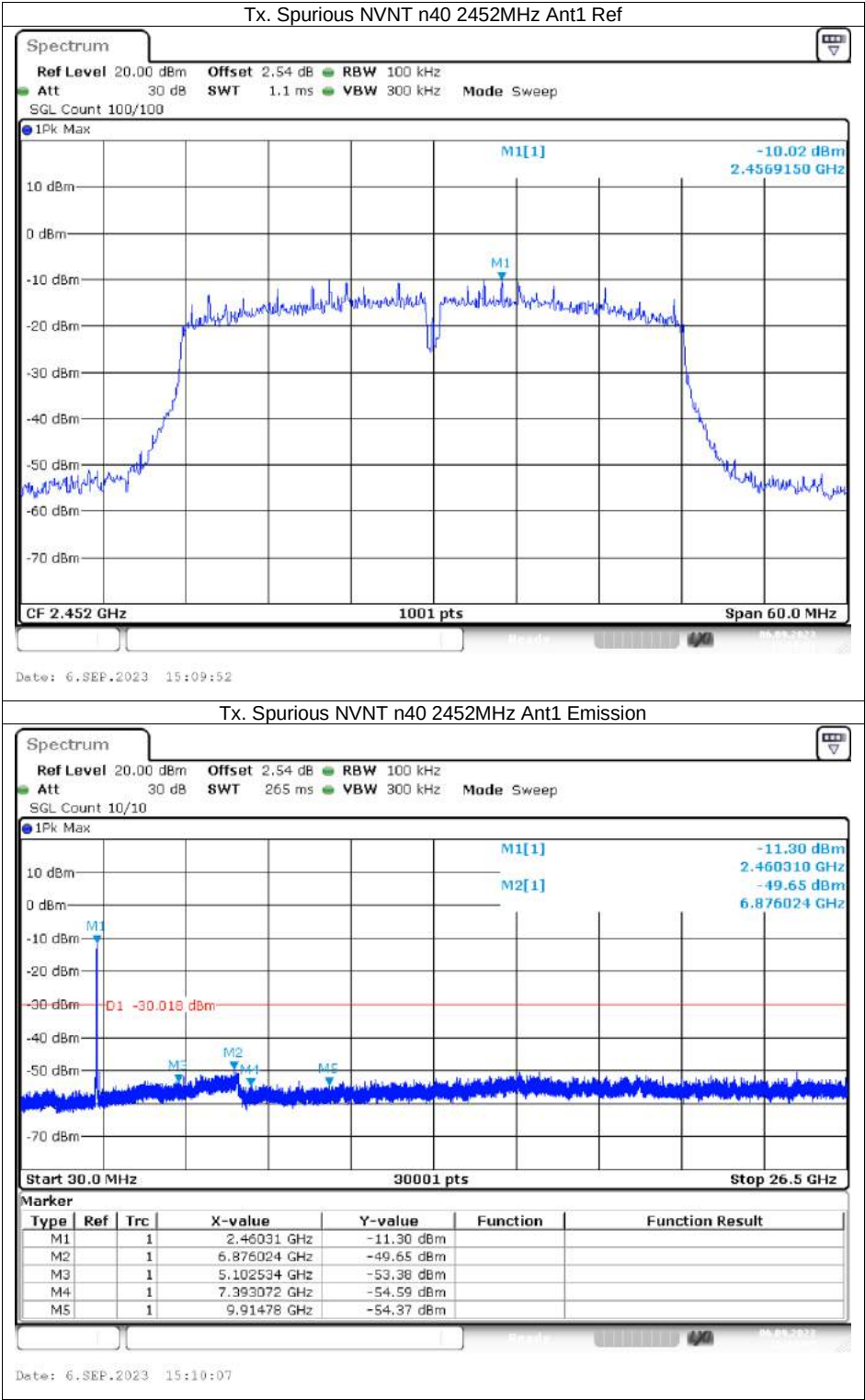






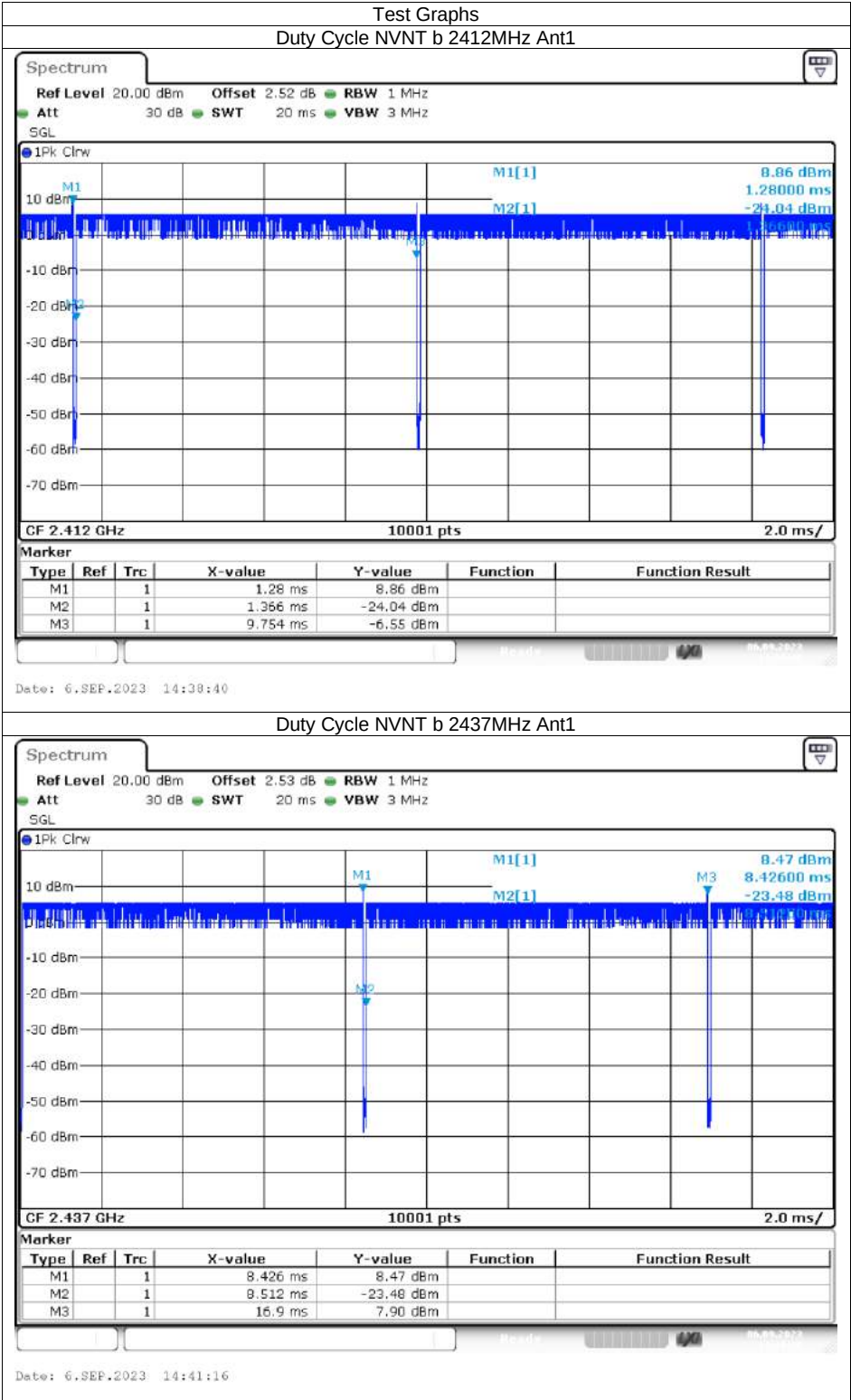


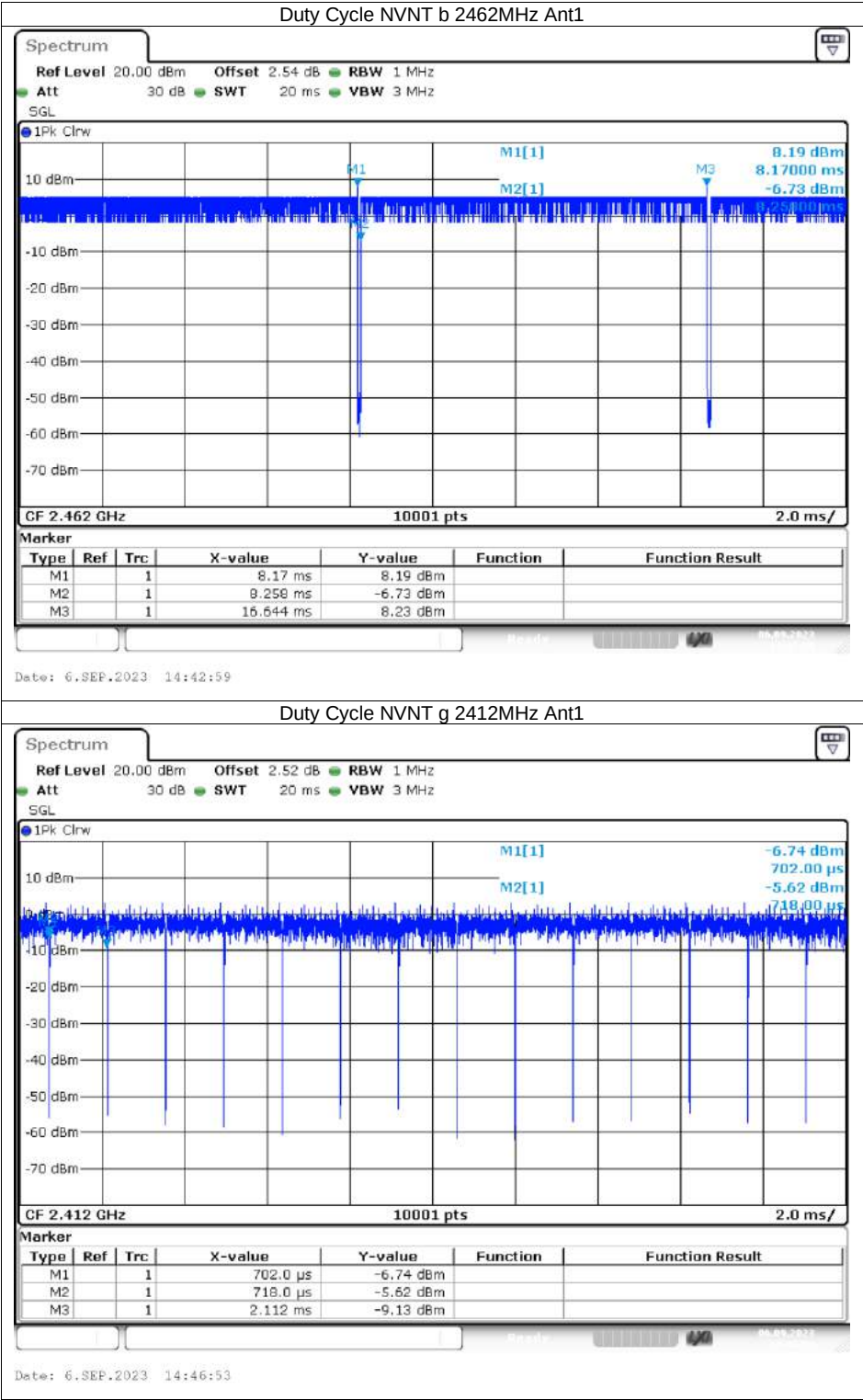


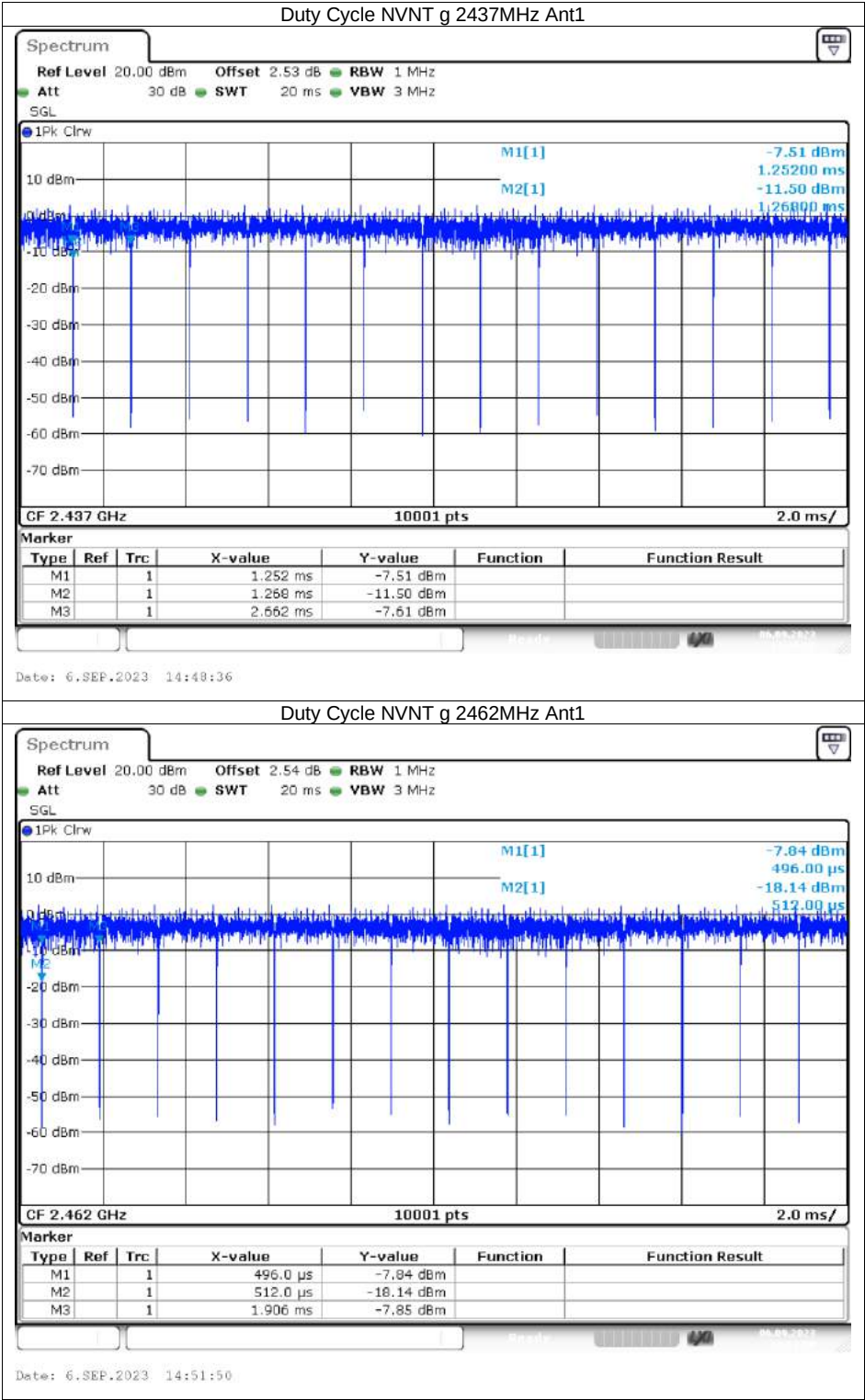


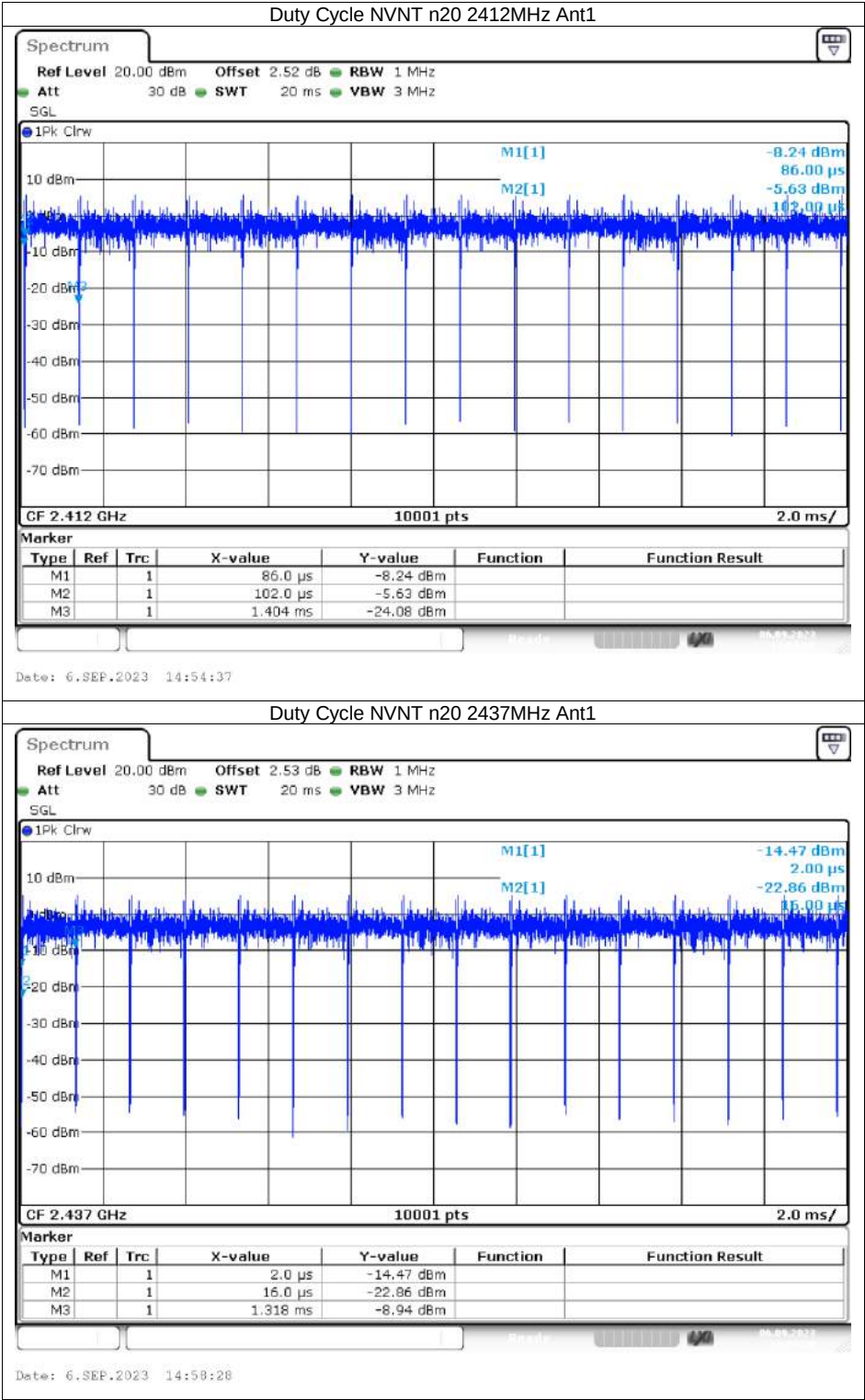
Duty Cycle

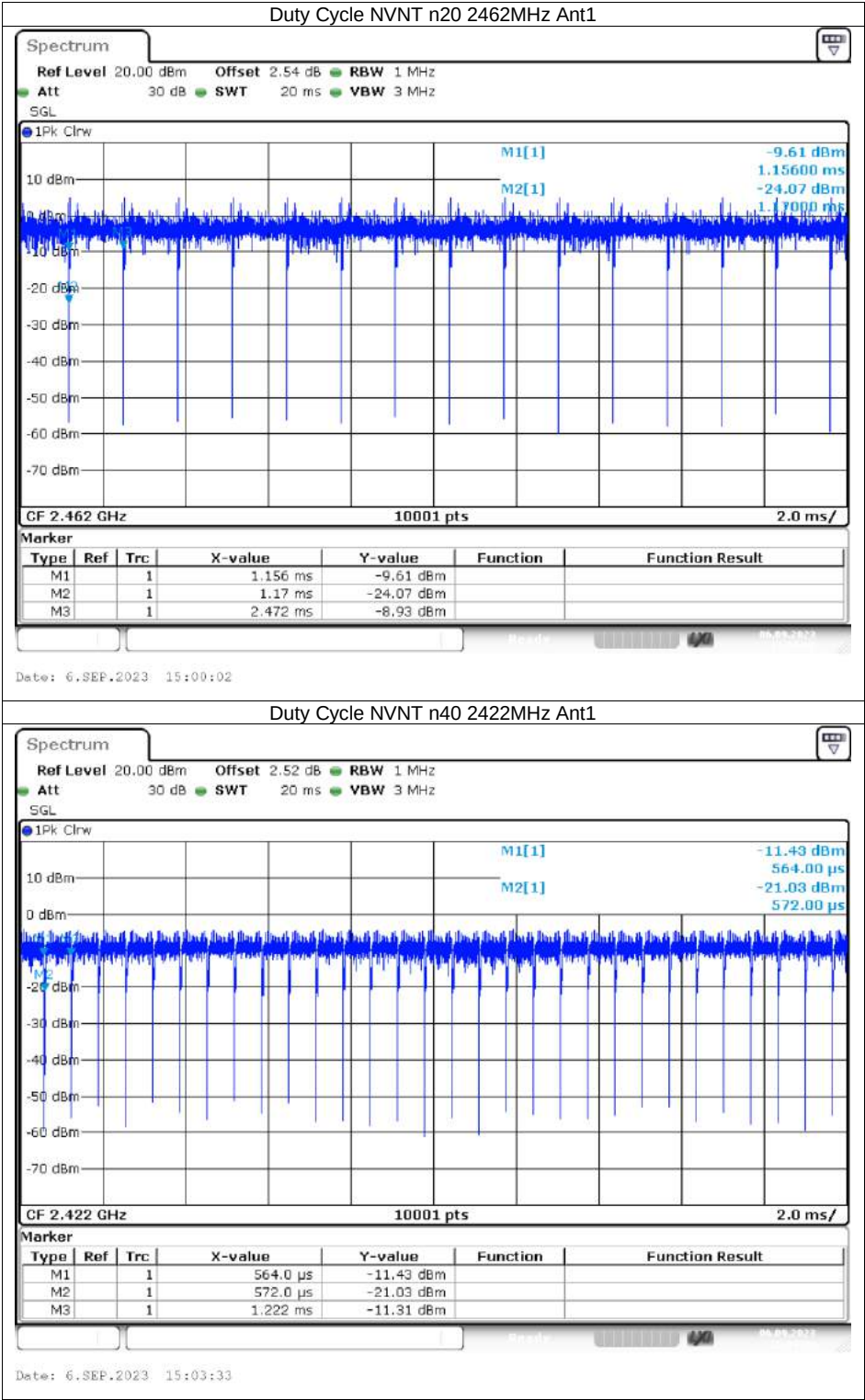
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	b	2437	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	b	2462	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	g	2412	Ant1	1.39	1.41	98.58	0	0.72	1
NVNT	g	2437	Ant1	1.39	1.41	98.58	0	0.72	1
NVNT	g	2462	Ant1	1.39	1.41	98.58	0	0.72	1
NVNT	n20	2412	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n20	2437	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n20	2462	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n40	2422	Ant1	0.65	0.66	98.48	0	1.54	1
NVNT	n40	2437	Ant1	0.65	0.66	98.48	0	1.54	1
NVNT	n40	2452	Ant1	0.65	0.66	98.48	0	1.54	1

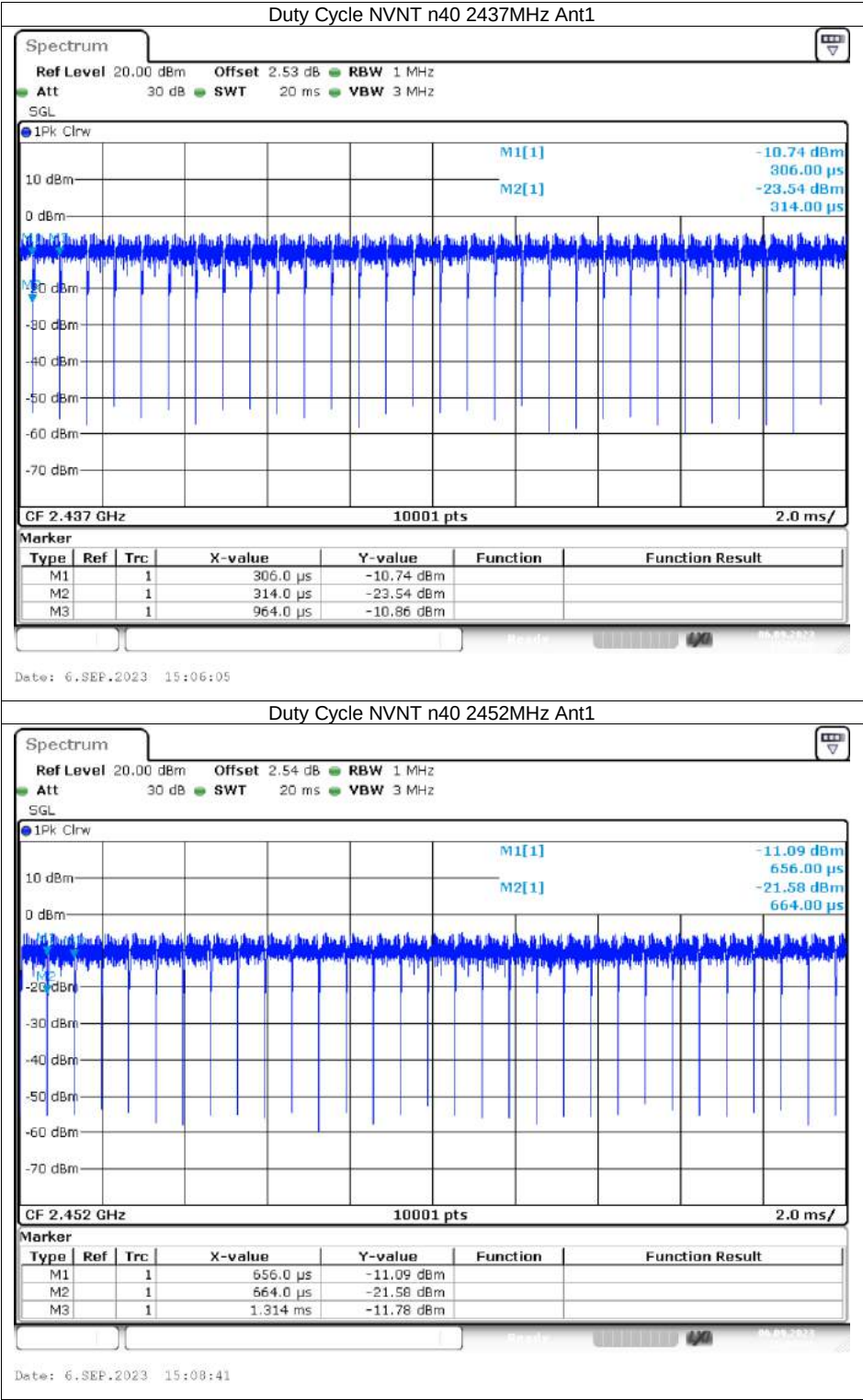












12. APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Radiated emissions below 1GHz



Conducted emissions



13. APPENDIX: PHOTOGRAPHS OF THE EUT

External photos

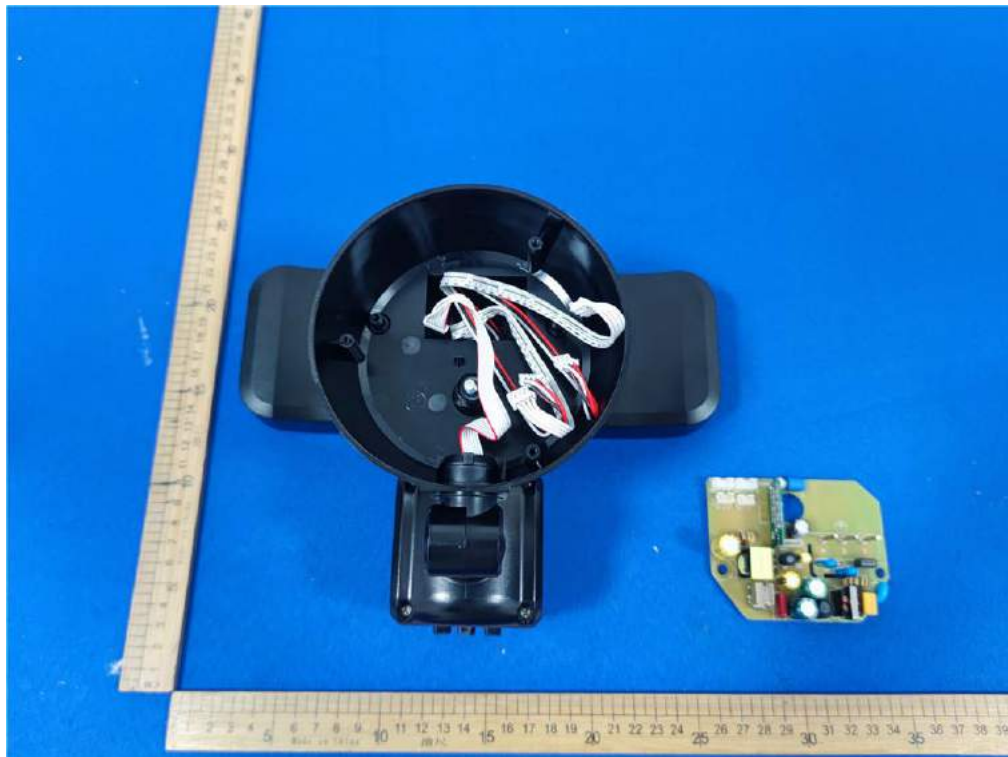
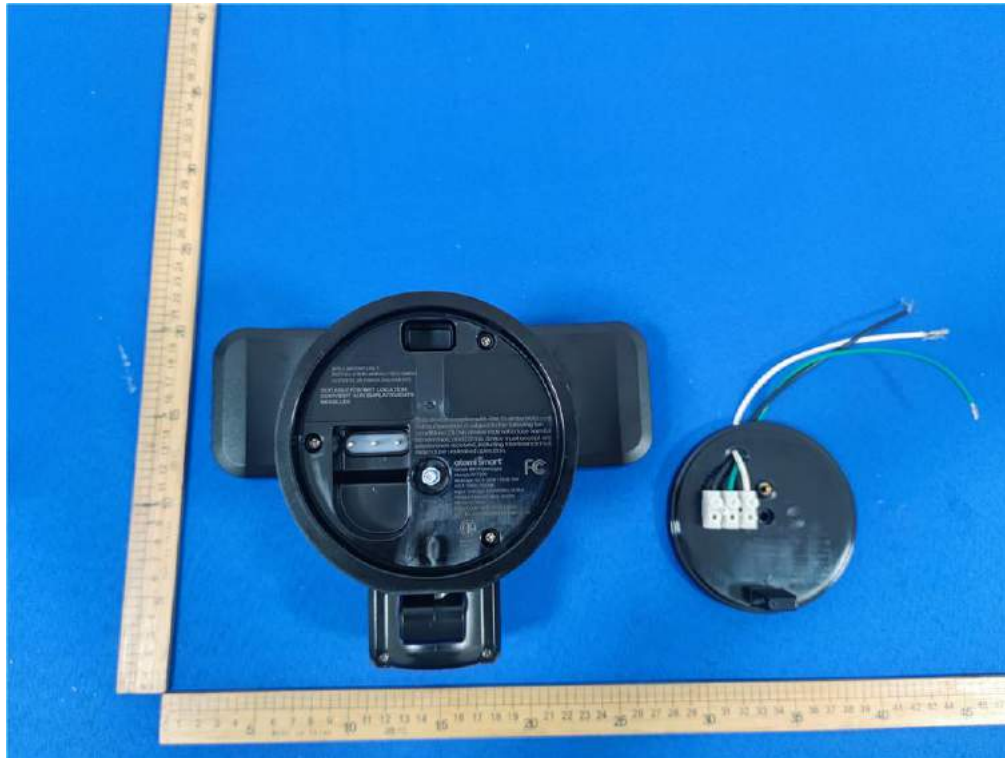


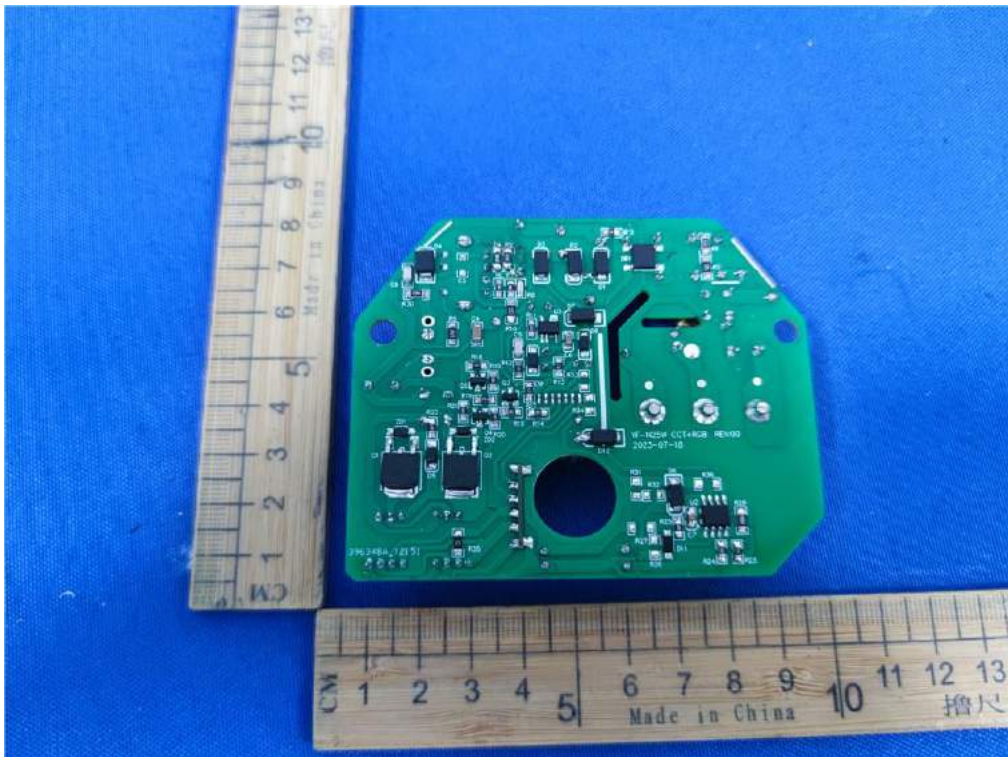
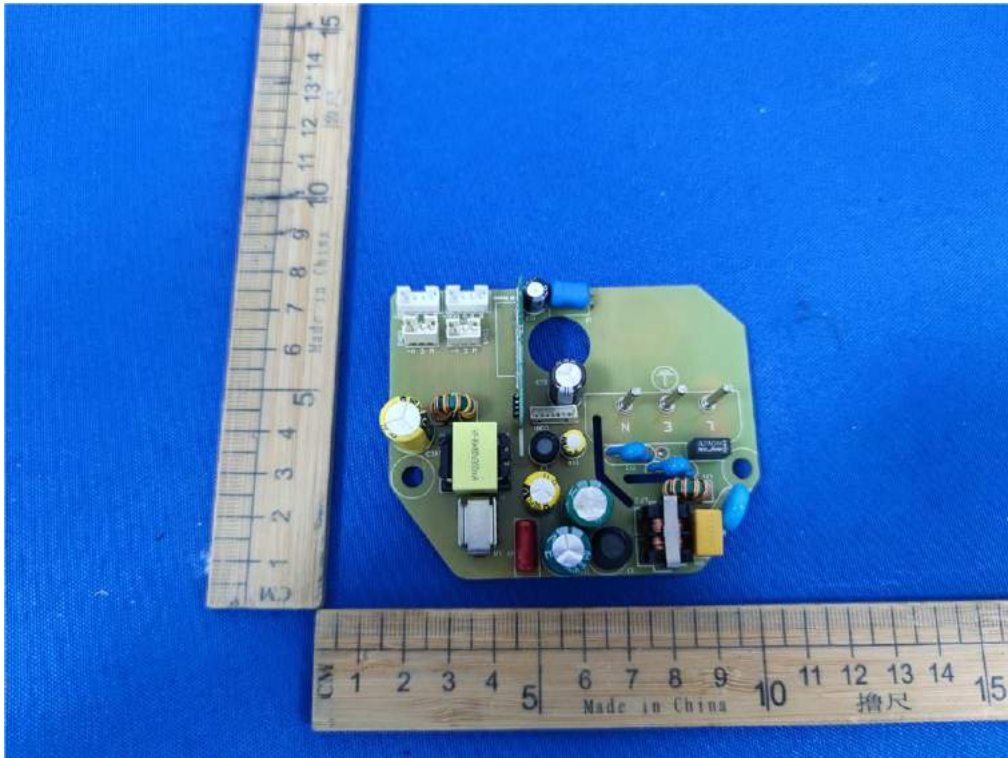




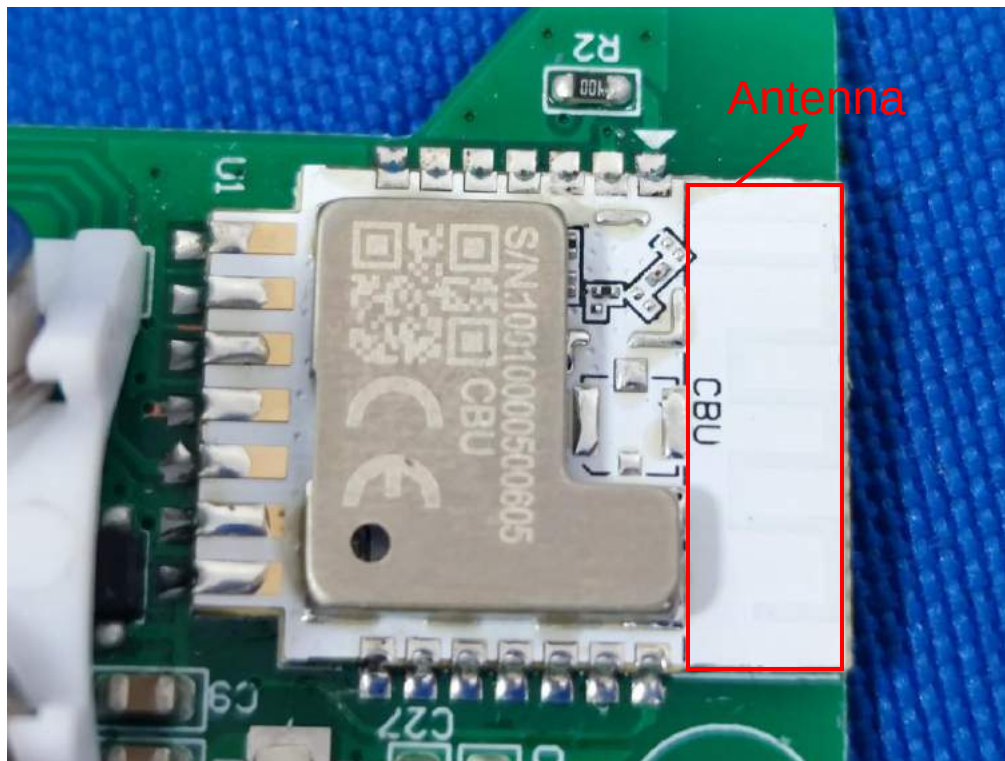
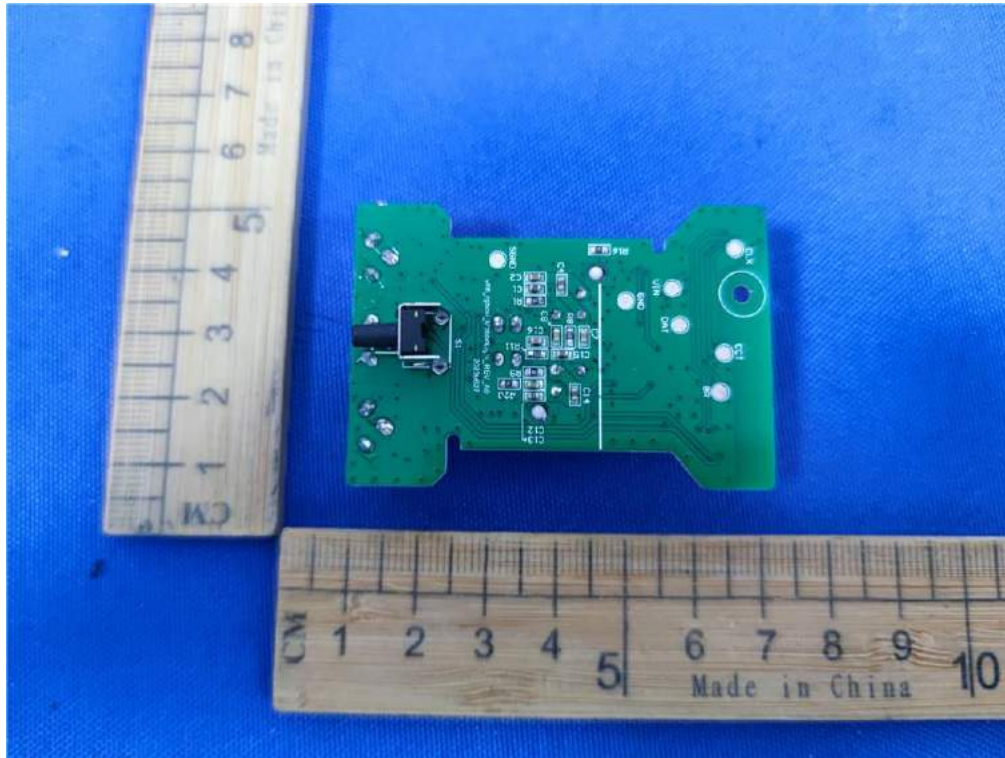
Internal photos

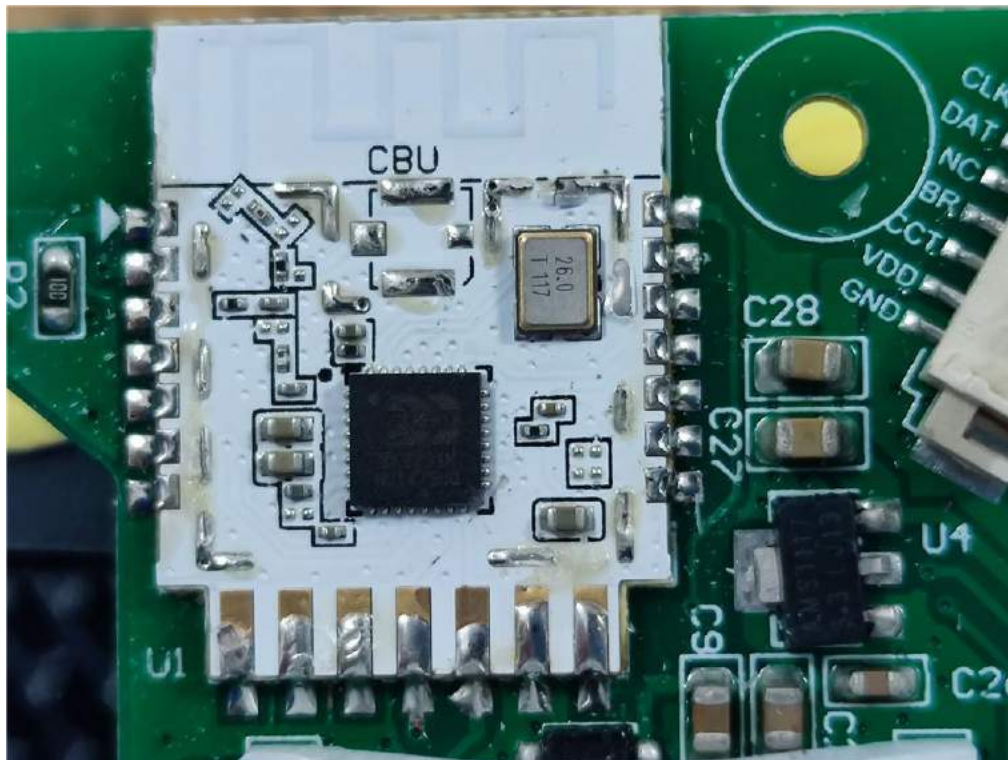












--- End of Report ---