



**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT  
INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT**

*OF*

**Smart Wireless Battery Camera**

**Model No.:**

**E933, E933J3F-V2, E933J5G, SL01, SL01PRO, SL02, SL03,  
LSH-FLCAM-1, CSH-FLCAM-1, SHA5344**

**FCC ID: Z63-E933J3F-V2**

**Trademark: N/A**

**Report No.: E01A23030136F00101**

**Issue Date: March 30, 2023**

*Prepared for*

**SHENZHEN AONI ELECTRONIC CO.,LTD.**

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Dong Guan Anci Eleaactronic Technology Co., Ltd.**

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TRF Date: 2022-06-29  
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**VERIFICATION OF COMPLIANCE**

Applicant:	SHENZHEN AONI ELECTRONIC CO.,LTD. No.5,Bldg., Honghui Industrial Park, 2nd Liuxian Road, Xin'An streets, Bao'an District, Shenzhen, P.R.china.
Manufacturer:	SHENZHEN AONI ELECTRONIC CO.,LTD. No.5,Bldg., Honghui Industrial Park, 2nd Liuxian Road, Xin'An streets, Bao'an District, Shenzhen, P.R.china
Product Description:	Smart Wireless Battery Camera
Trade Mark:	N/A
Model Number:	E933, E933J3F-V2, E933J5G, SL01, SL01PRO, SL02, SL03, LSH-FLCAM-1, CSH-FLCAM-1, SHA5344 (There is no difference between the models except the name. So all the test were performed on the model E933J3F-V2)
Sample number:	A23030136 005

**We hereby certify that:**

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247(2022).

Date of Test : March 06, 2023 to March 28, 2023

Prepared by : Duke Liu

Reviewer & Authorized Signer : Tiger Xu

Tiger Xu/ Supervisor



### Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23030136F00101

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## 1. General Information

### 1.1 Product Description

Characteristics	Description
Product Name	Smart Wireless Battery Camera
Model number	E933J3F-V2
Power Supply	DC 5V, DC 3.7V
Test Power Supply	DC 5V, 2A from adapter, DC 3.7V from battery
Adapter Information	Model: KA12H-0502000US Input: AC 100-240V~50/60Hz, 0.4A Max Output: DC 5V2A Model: KA12C-0502000US Input: AC 100-240V~50/60Hz, 0.35A Max Output: DC 5V2A
Modulation	802.11b: DSSS(DBPSK/DQPSK/CCK) 802.11g/n: OFDM(BPSK/QPSK/16QAM/64QAM)
Operating Frequency Range	2412-2462MHz for 802.11b/g; 2412-2462MHz for 802.11n(HT20); 2422-2452MHz for 802.11n(HT40);
Number of Channels	11 channels for 802.11b/g; 11 channels for 802.11n(HT20); 7 channels for 802.11n(HT40);
Transmit Power Max	802.11b: 12.61dBm 802.11g: 13.18dBm 802.11n(HT20): 12.27dBm 802.11n(HT40): 11.12dBm
Antenna Type	Internal PCB antenna
Antenna Gain	2.86dBi
Sample receipt date	March 06, 2023

**Note:** for more details, please refer to the User's manual of the EUT.

## **1.2 Test Methodology**

All the test program has follow FCC new test procedure KDB 558074 D01 15.247 Meas Guidance v05r02 and in accordance with the procedures given in ANSI C63.10-2013.

## 2. System Test Configuration

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.1.2 Conducted Emissions

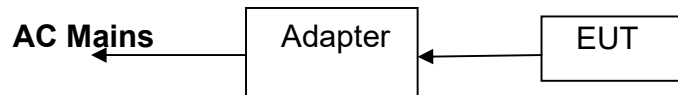
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

### 2.4 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Trademark	Model No.	FCC ID	Note
1.	Smart Wireless Battery Camera	N/A	E933J3F-V2	Z63-E933J3F-V2	<b>EUT</b>
2.	Adapter	N/A	KA12H-0502000US KA12C-0502000US	N/A	<b>Support EUT</b>



**Note:**

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

### 3. Description of Test Modes

The EUT has been tested under its typical operating condition and Only the worst case data were reported. The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20 ): MCS0; 802.11n (HT40 ): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed. EUT is connected by com port, and transmit the control instruction via test software(SecureCRT V8.1.4).

Frequency and Channel list for 802.11 b/g/n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Frequency and Channel list for 802.11 n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	8	2447
4	2427	6	2437	9	2452
		7	2442		

Test Frequency and Channel for 802.11 b/g/n (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

Test Frequency and channel for 802.11 n (HT40):

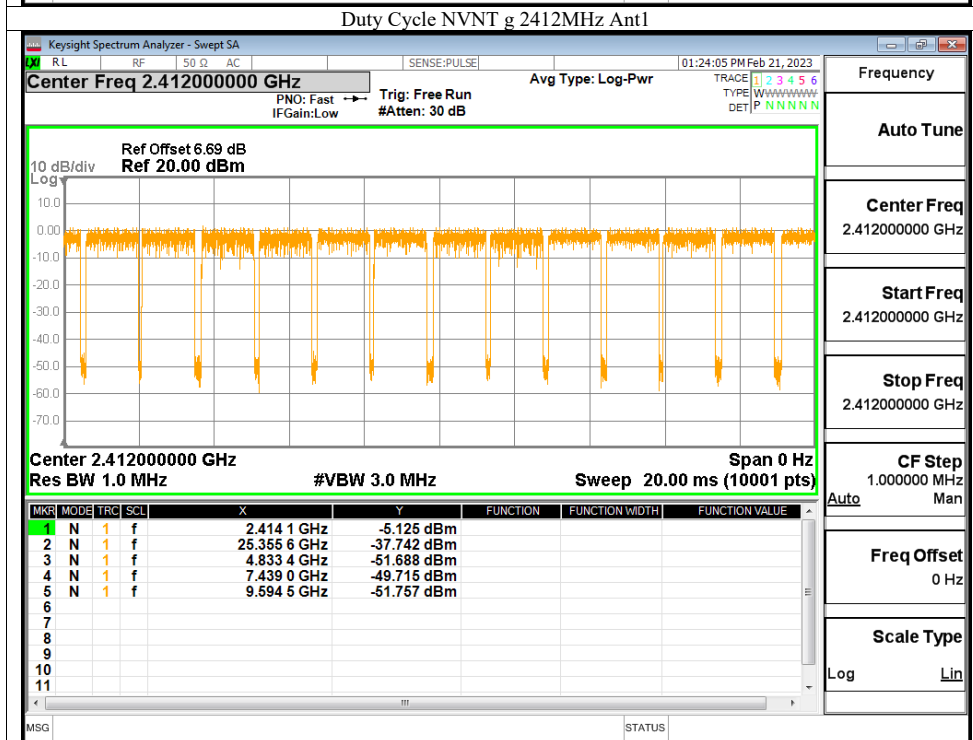
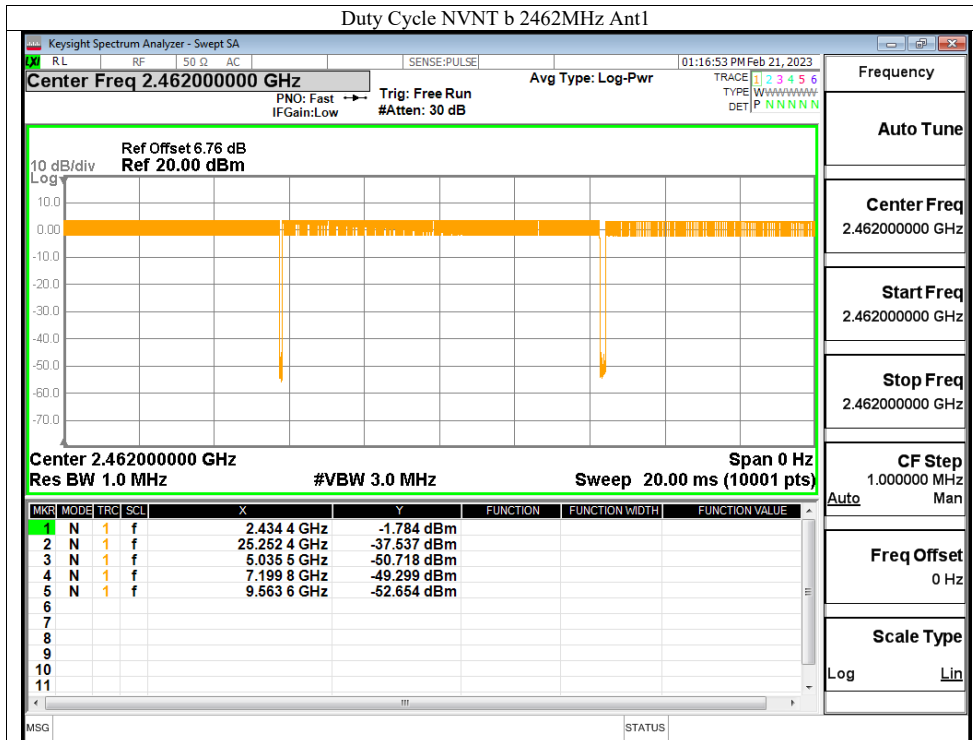
Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452

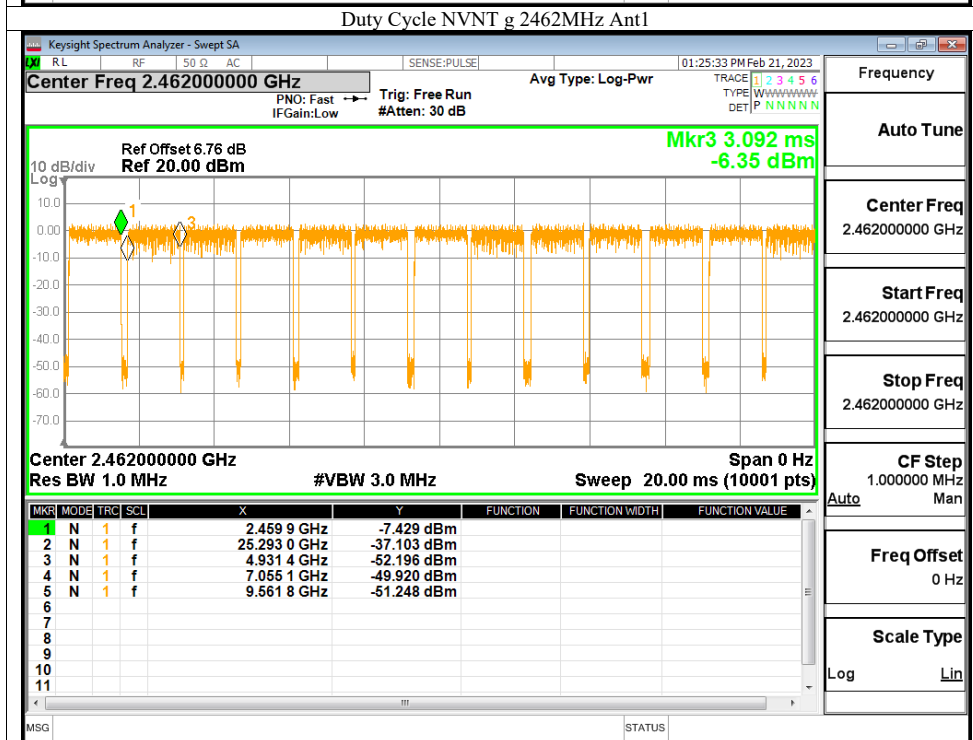
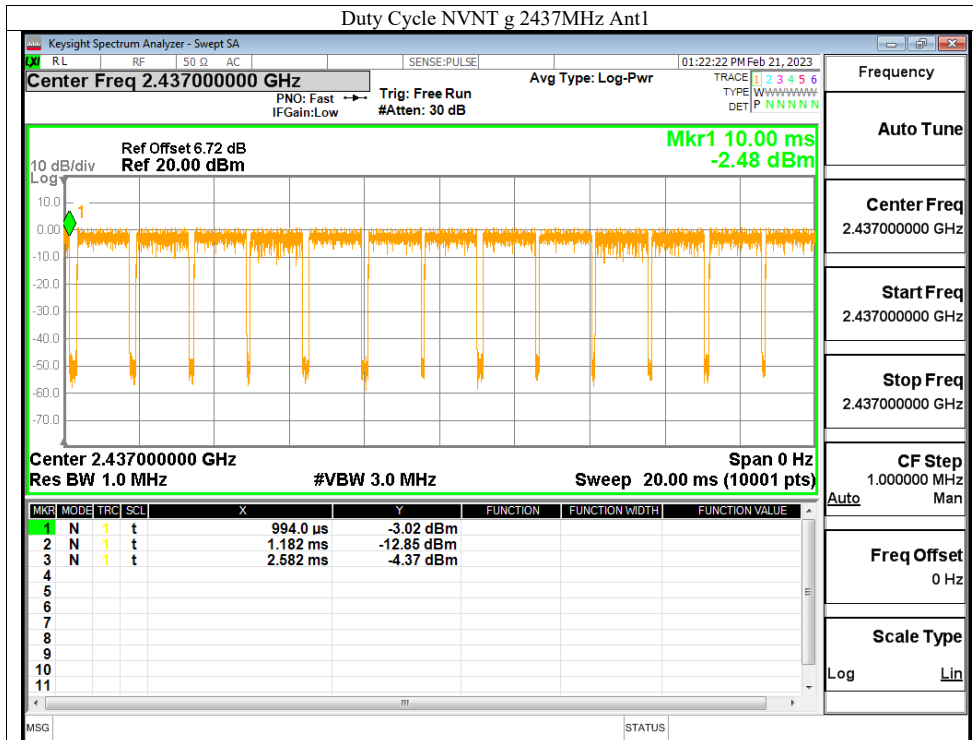
Operated Mode for Worst Duty cycle:  
Duty Cycle:

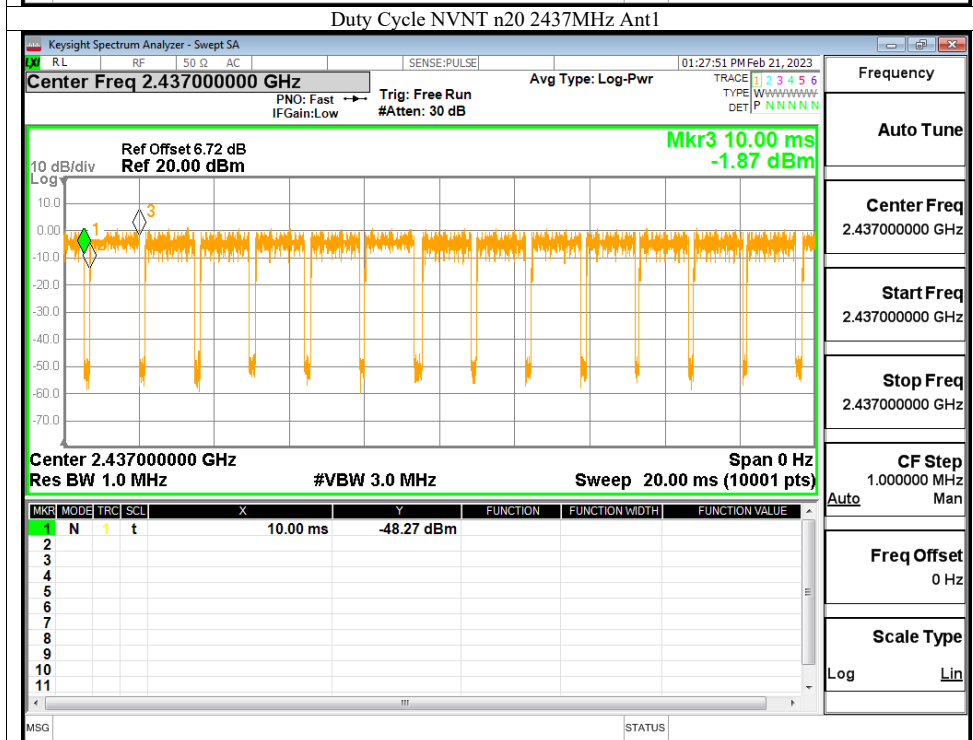
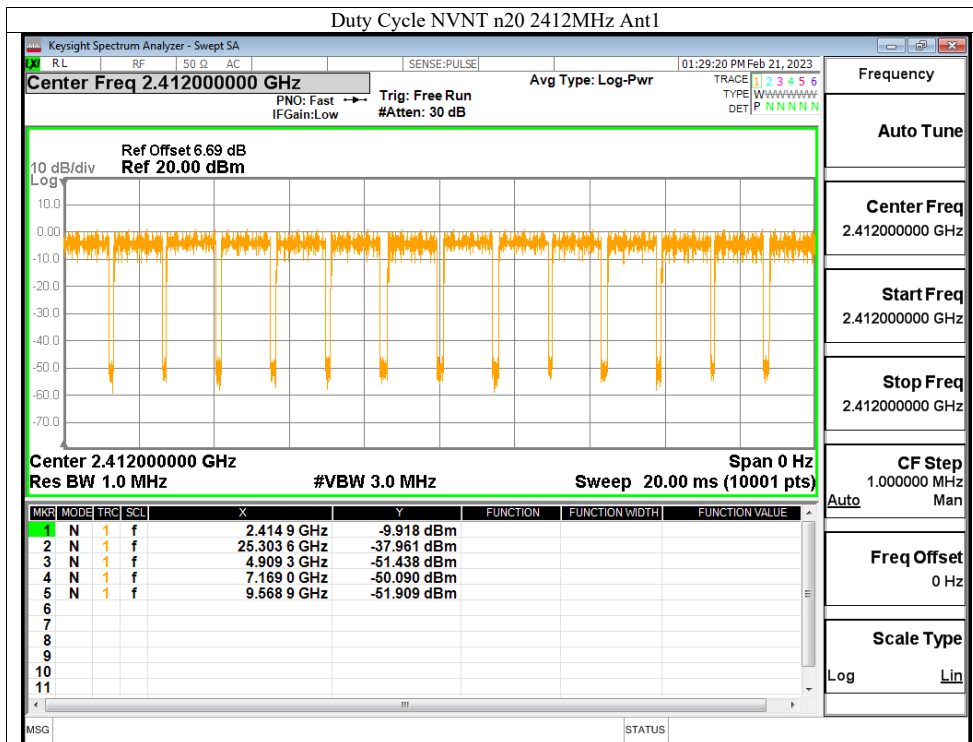
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.04	0	0.12
NVNT	b	2437	Ant1	97.89	0.09	0.12
NVNT	b	2462	Ant1	99.16	0	0.12
NVNT	g	2412	Ant1	90.8	0.42	0.71
NVNT	g	2437	Ant1	87.73	0.57	0.71
NVNT	g	2462	Ant1	89.63	0.48	0.71
NVNT	n20	2412	Ant1	91.88	0.37	0.76
NVNT	n20	2437	Ant1	89.13	0.5	0.76
NVNT	n20	2462	Ant1	87.94	0.56	0.76
NVNT	n40	2422	Ant1	0	0	$\infty$
NVNT	n40	2437	Ant1	0	0	$\infty$
NVNT	n40	2452	Ant1	20	6.99	500

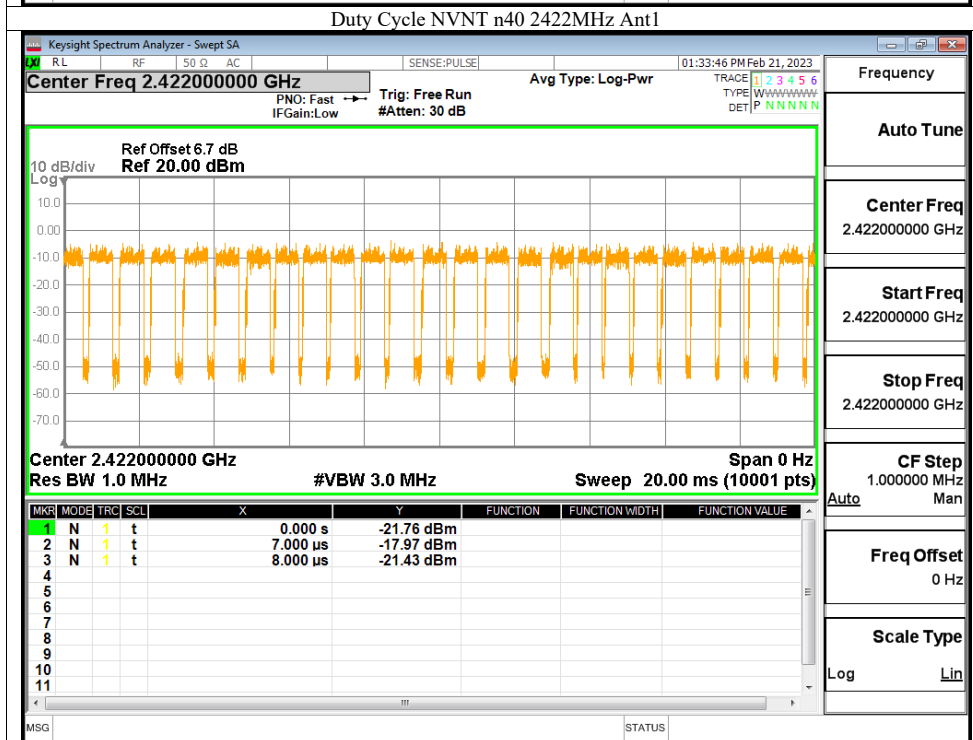
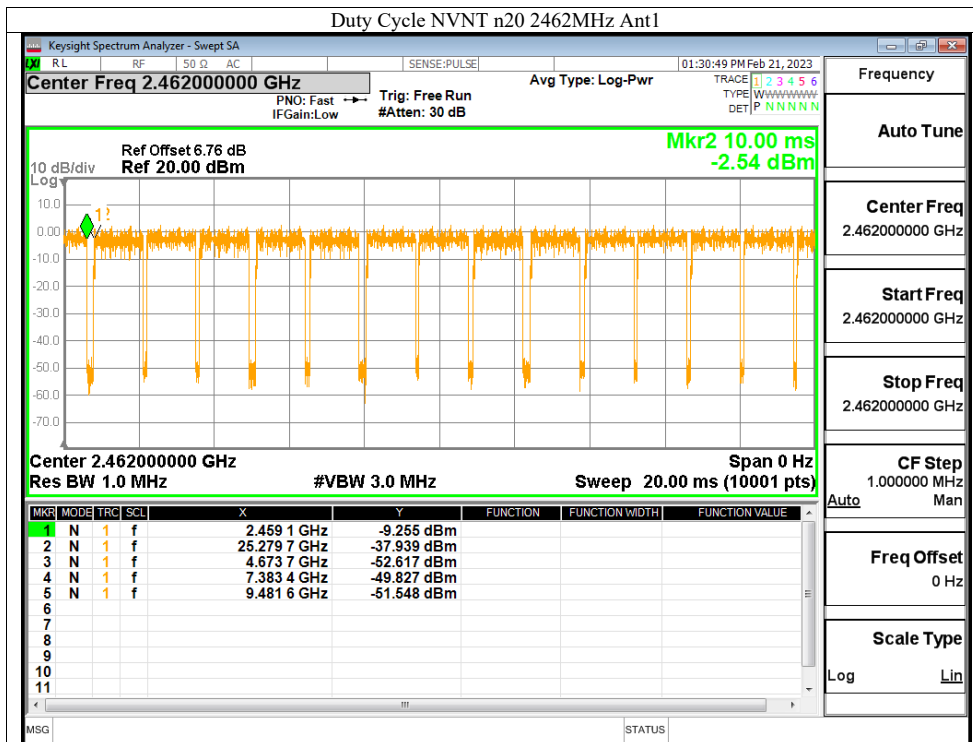
All the modulation modes were tested, the data of the mode are recorded in the following pages:



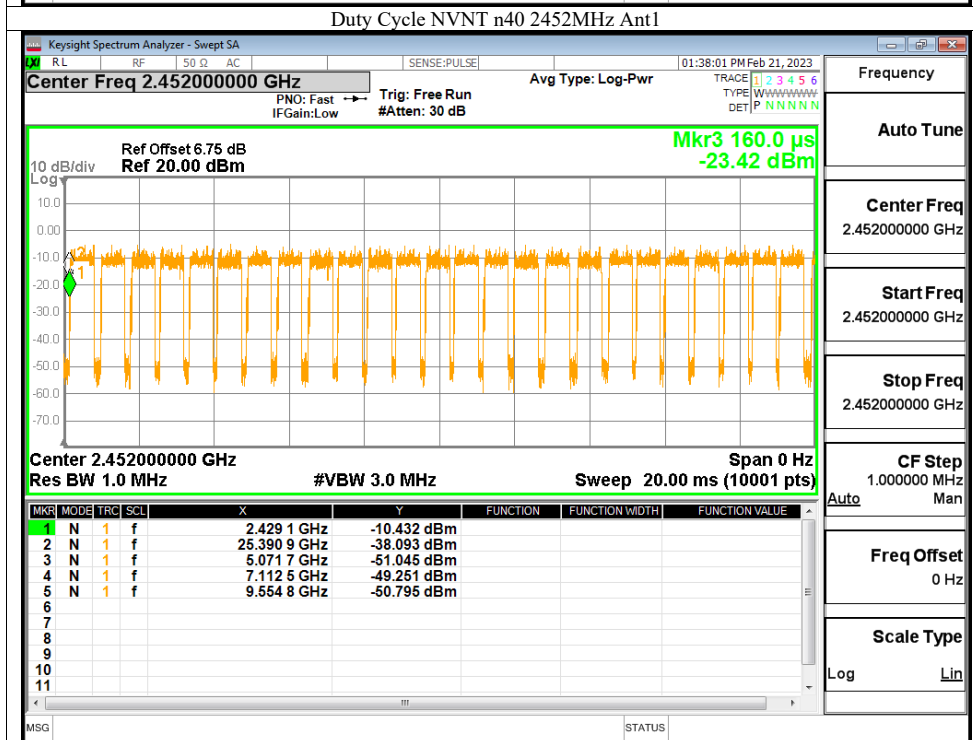
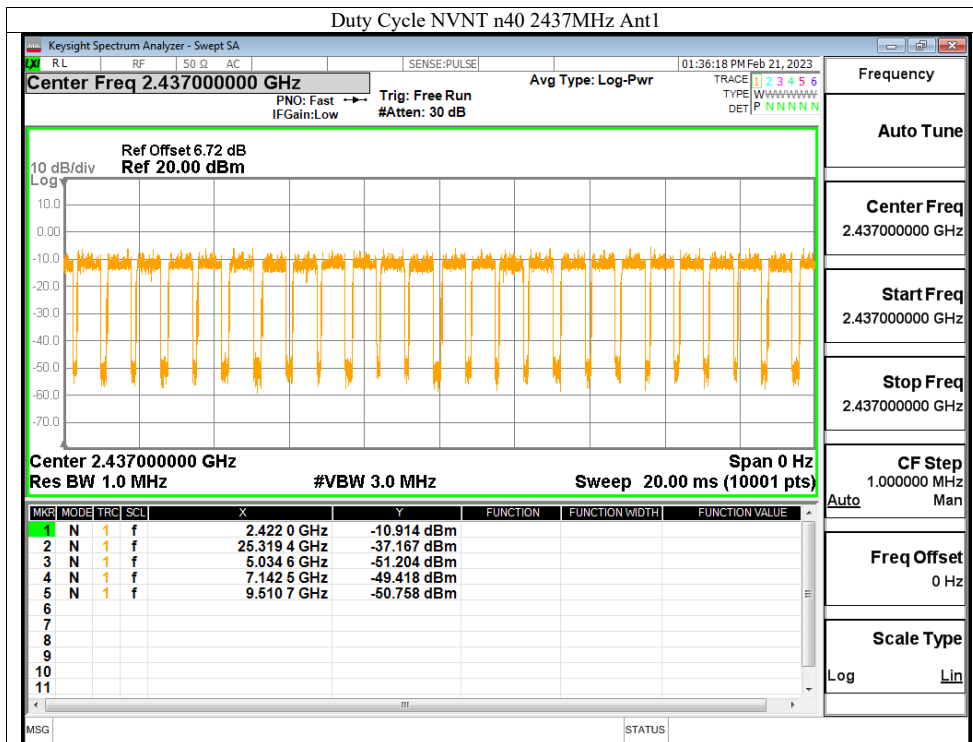












#### 4. Summary of Test Results

<b>FCC Rules</b>	<b>Description Of Test</b>	<b>Result</b>
§15.247(a)(2)	6dB bandwidth	Pass
§15.247(b)(3)	Max Peak output Power test	Pass
§15.247(e)	Power density	Pass
§15.247(d)	Band edge test	Pass
§15.207	AC Power Conducted Emission	Pass
§15.247(d), §15.209	Radiated Emission	Pass
§15.247(d)	Antenna Port Emission	Pass
§15.247(b)&§15.203	Antenna Application	Pass
N/A (Not Applicable).		

## 5. Test Facility

Site Description

EMC Lab. : Accredited by FCC, May 30, 2019  
Designation Number: CN1230  
Test Firm Registration Number: 991798

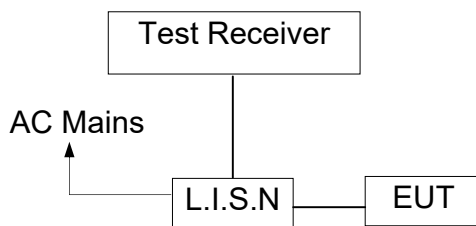
Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.  
Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road,  
Songshan, Lake Hi-tech Industrial Development  
Zone, Dongguan City, Guangdong Pr., China.

## 6. Conducted Emissions Test

### 6.1 Measurement Procedure:

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 6.2 Test SET-UP (Block Diagram of Configuration)



### 6.3 Measurement Equipment Used:

Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
1.	LISN	ROHDE&SCHWARZ	ENV216	101413	2023-10-07
2.	RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19044022	2023-05-12
3.	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12
4.	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2025-11-21
5.	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A

### 6.4 Conducted Emission Limit

#### (7) Conducted Emission

##### Frequency(MHz)

0.15-0.5

0.5-5.0

5.0-30.0

##### Quasi-peak

66-56

56

60

##### Average

56-46

46

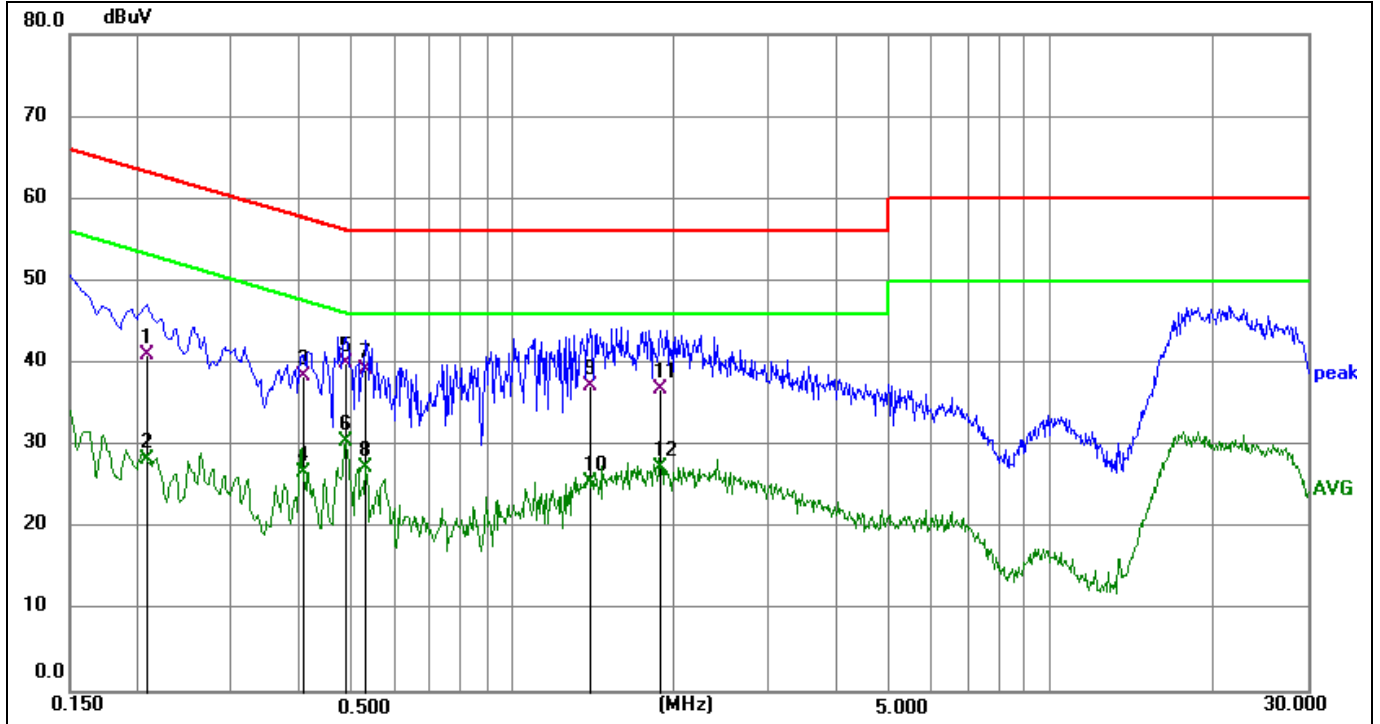
50

#### Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

**6.5 Measurement Result:**

All the modulation modes were tested the data of the worst mode (802.11 b TX2412) are recorded in the following pages and the others modulation methods do not exceed the limits. Please refer to following pages.



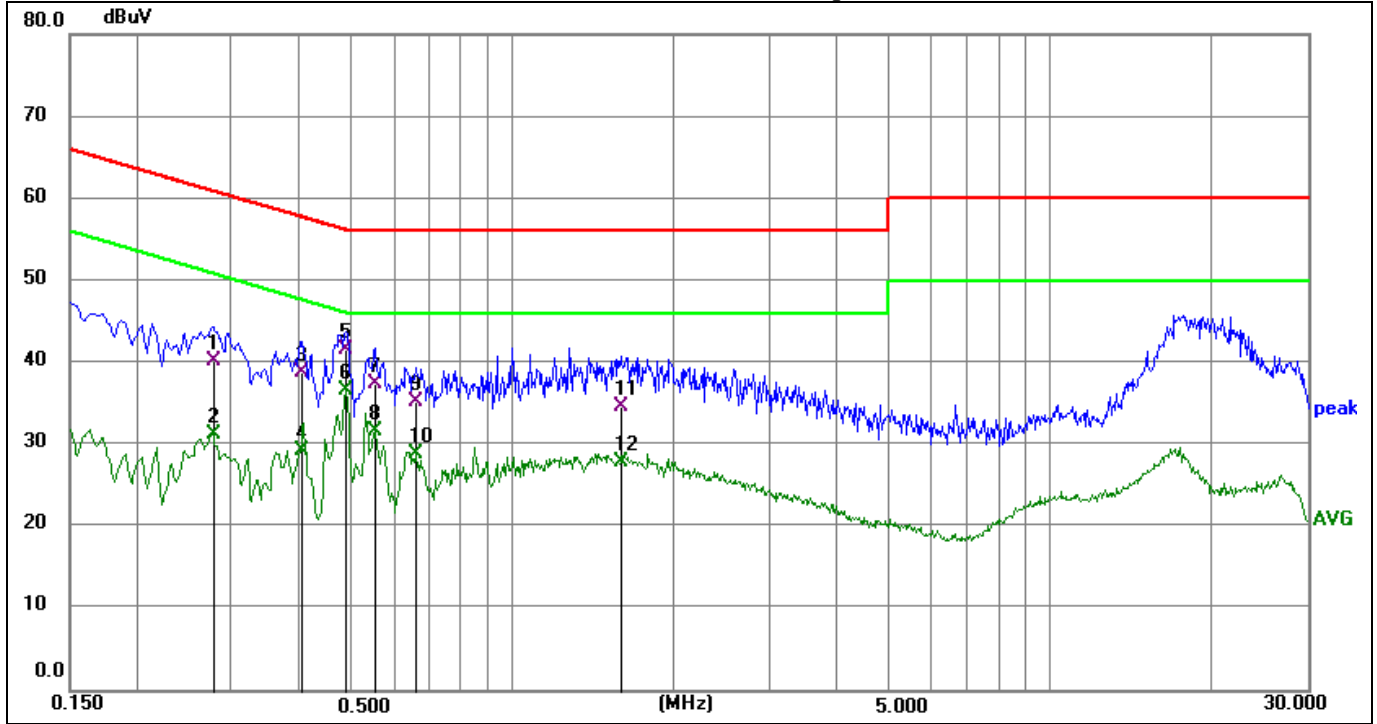
<b>Site:</b>	843	<b>Phase:</b> L1	<b>Temperature(C):</b> 23.5(C)
<b>Limit:</b>	FCC PART 15C Conduction(QP)		<b>Humidity(%):</b> 52.6%
<b>EUT:</b>	Smart Wireless Battery Camera	<b>Test Time:</b>	2023/3/8 17:05:12
<b>M/N.:</b>	E933J3F-V2	<b>Power Rating:</b>	AC 120V/60Hz
<b>Mode:</b>	WIFI TX2412	<b>Test Engineer:</b>	Sunshine
<b>Note:</b>			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.2085	30.98	9.92	40.90	63.26	-22.36	QP	
2	0.2085	18.34	9.92	28.26	53.26	-25.00	AVG	
3	0.4065	28.63	9.82	38.45	57.72	-19.27	QP	
4	0.4065	16.90	9.82	26.72	47.72	-21.00	AVG	
5	0.4875	30.25	9.84	40.09	56.21	-16.12	QP	
6	0.4875	20.65	9.84	30.49	46.21	-15.72	AVG	
7	0.5325	29.30	9.89	39.19	56.00	-16.81	QP	
8	0.5325	17.31	9.89	27.20	46.00	-18.80	AVG	
9	1.3965	27.00	10.20	37.20	56.00	-18.80	QP	
10	1.3965	15.34	10.20	25.54	46.00	-20.46	AVG	
11	1.8870	26.58	10.19	36.77	56.00	-19.23	QP	
12	1.8870	17.01	10.19	27.20	46.00	-18.80	AVG	

\*:Maximum data x:Over limit !:over margin

TRF No.: 01-R001-3A-WIFI

Global Testing , Great Quality.



Site:	843	Phase:	N	Temperature(C):	23.5(C)
Limit:	FCC PART 15C Conduction(QP)	Test Time:	2023/3/8 17:09:53	Humidity(%):	52.6%
EUT:	Smart Wireless Battery Camera	Power Rating:	AC 120V/60Hz	Test Engineer:	Sunshine
M/N.:	E933J3F-V2				
Mode:	WIFI TX2412				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.2760	30.31	9.89	40.20	60.94	-20.74	QP	
2	0.2760	21.40	9.89	31.29	50.94	-19.65	AVG	
3	0.4020	28.85	9.94	38.79	57.81	-19.02	QP	
4	0.4020	19.28	9.94	29.22	47.81	-18.59	AVG	
5	0.4875	31.69	9.97	41.66	56.21	-14.55	QP	
6	0.4875	26.71	9.97	36.68	46.21	-9.53	AVG	
7	0.5550	27.49	9.99	37.48	56.00	-18.52	QP	
8	0.5550	21.71	9.99	31.70	46.00	-14.30	AVG	
9	0.6585	25.15	10.02	35.17	56.00	-20.83	QP	
10	0.6585	18.78	10.02	28.80	46.00	-17.20	AVG	
11	1.5855	24.47	10.19	34.66	56.00	-21.34	QP	
12	1.5855	17.73	10.19	27.92	46.00	-18.08	AVG	

\*:Maximum data x:Over limit !:over margin

## 7. Radiated Emission Test

### 7.1 Measurement Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured was complete.

When spectrum scanned from 30MHz to 1GHz setting resolution bandwidth 120KHz and video bandwidth 300KHz:

EMI Test Receiver	Setting
Attenuation	Auto
RB	120KHz
VB	300KHz
Detector	QP
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz:

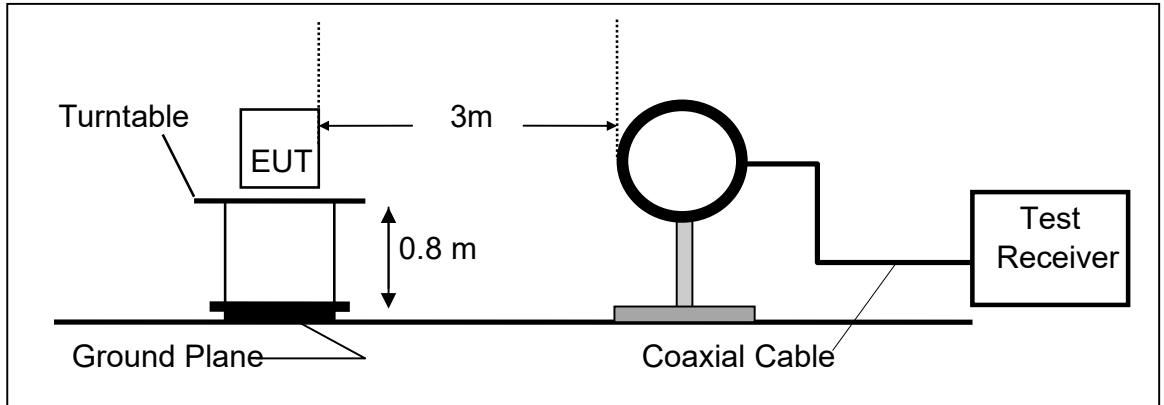
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz:

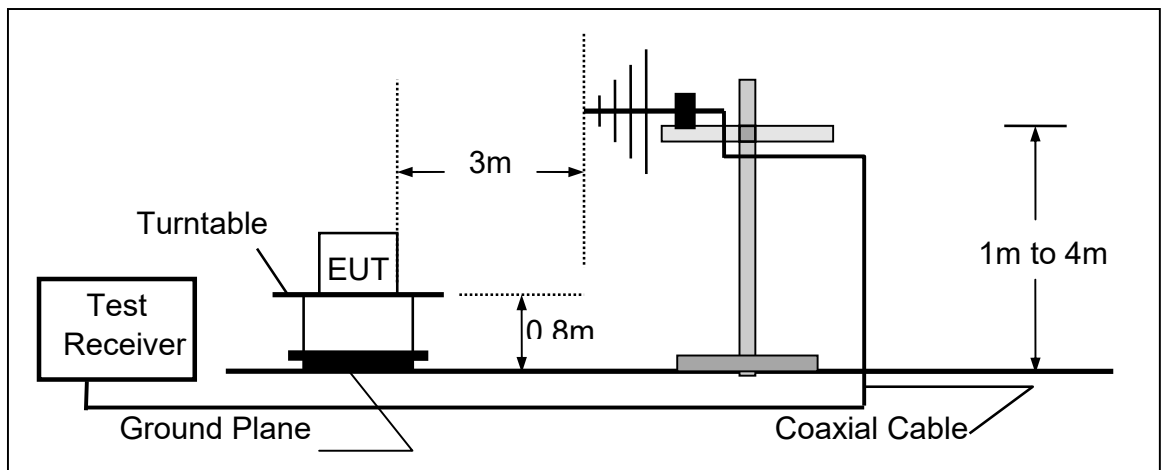
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	Peak
Trace	Max hold

## 7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

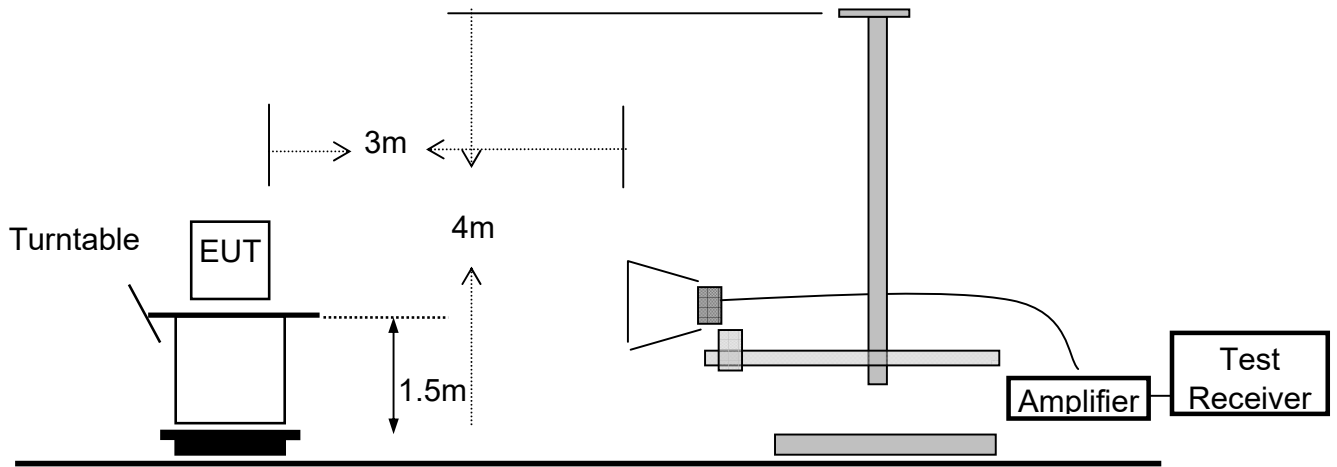


(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz





(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
6.	EMI Test Receiver	Rohde & Schwarz	ESPI7	100502	2023-10-07
7.	Pre-Amplifier	Anritsu	MH648A	M57886	2023-05-12
8.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-1290	2023-12-11
9.	RF Cable	N/A	ZT06S-NJ-NJ-11M	19060398	2023-05-12
10.	RF Cable	N/A	ZT06S-NJ-NJ-0.5M	19060400	2023-05-12
11.	RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19060404	2023-05-12
12.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023-10-07
13.	Low noise Amplifiers	A-INFO	LA1018N4009	J101313052400 1	2023-05-12
14.	Horn antenna	A-INFO	LB-10180-SF	J203109061212 3	2024-05-14
15.	RF Cable	N/A	ZT26-NJ-NJ-11M	19060401	2023-05-12
16.	RF Cable	N/A	ZT26-NJ-NJ-2.5M	19060402	2023-05-12
17.	RF Cable	N/A	ZT26-NJ-NJ-0.5M	19060403	2023-05-12
18.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-12
19.	Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A

**7.4 Radiated Emission Limit**

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies (MHz)	Field Strength (micровolts/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
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

**15.205 Restricted bands of operation**

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 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	( <sup>2</sup> )

- Remark 1. Emission level in dBuV/m=20 log (uV/m)  
 : 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.  
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

## 7.5 Measurement Result

### Below 30MHz:

All the modulation modes were tested the data of the test mode are recorded in the following pages.

Operation Mode:	TX Mode	Test Date :	2023-03-16
Frequency Range:	9KHz~30MHz	Temperature :	25.0°C
Test Result:	PASS	Humidity :	54.1%
Measured Distance:	3m	Test By:	Big

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

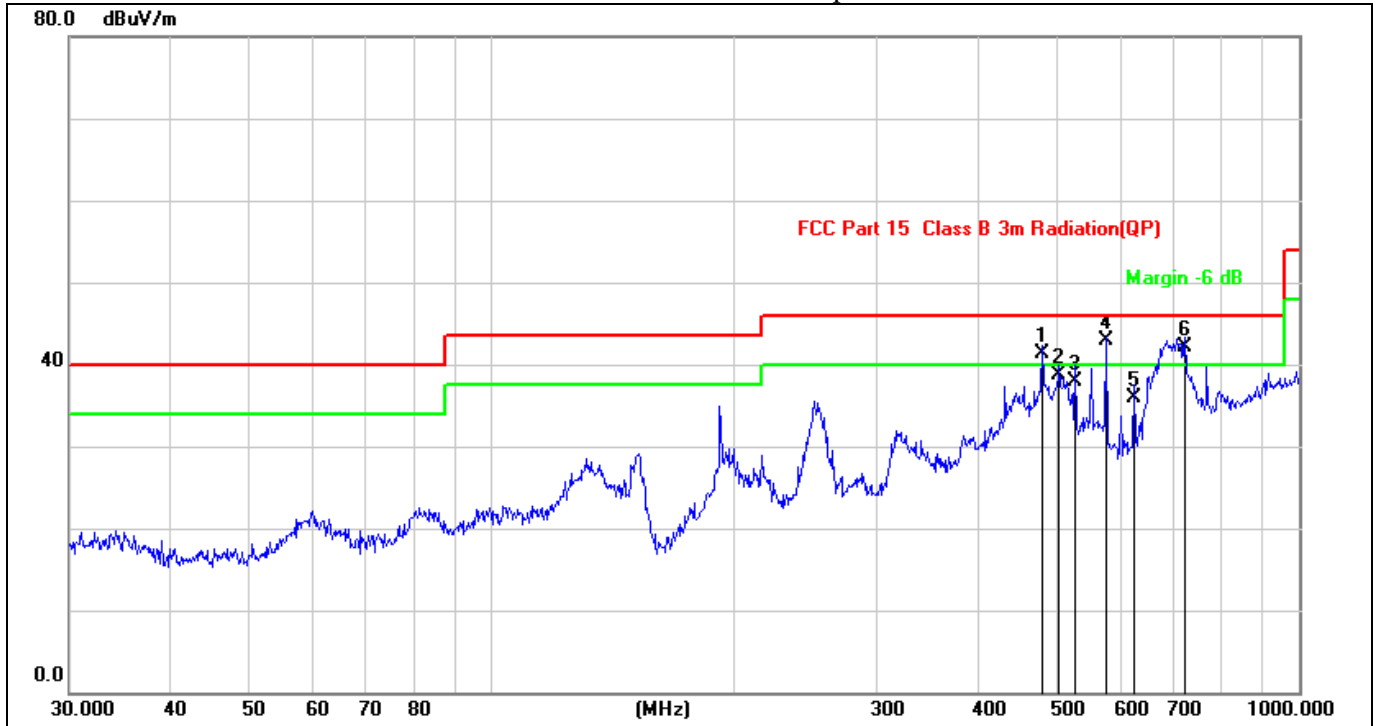
Distance extrapolation factor =  $40 \log(\text{Specific distance} / \text{test distance})$  (dB);

Limit line = Specific limits (dBuV) + distance extrapolation factor.

### Below 1000MHz:

All the modulation modes were tested the data of the worst mode (TX 802.11b 2412MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.

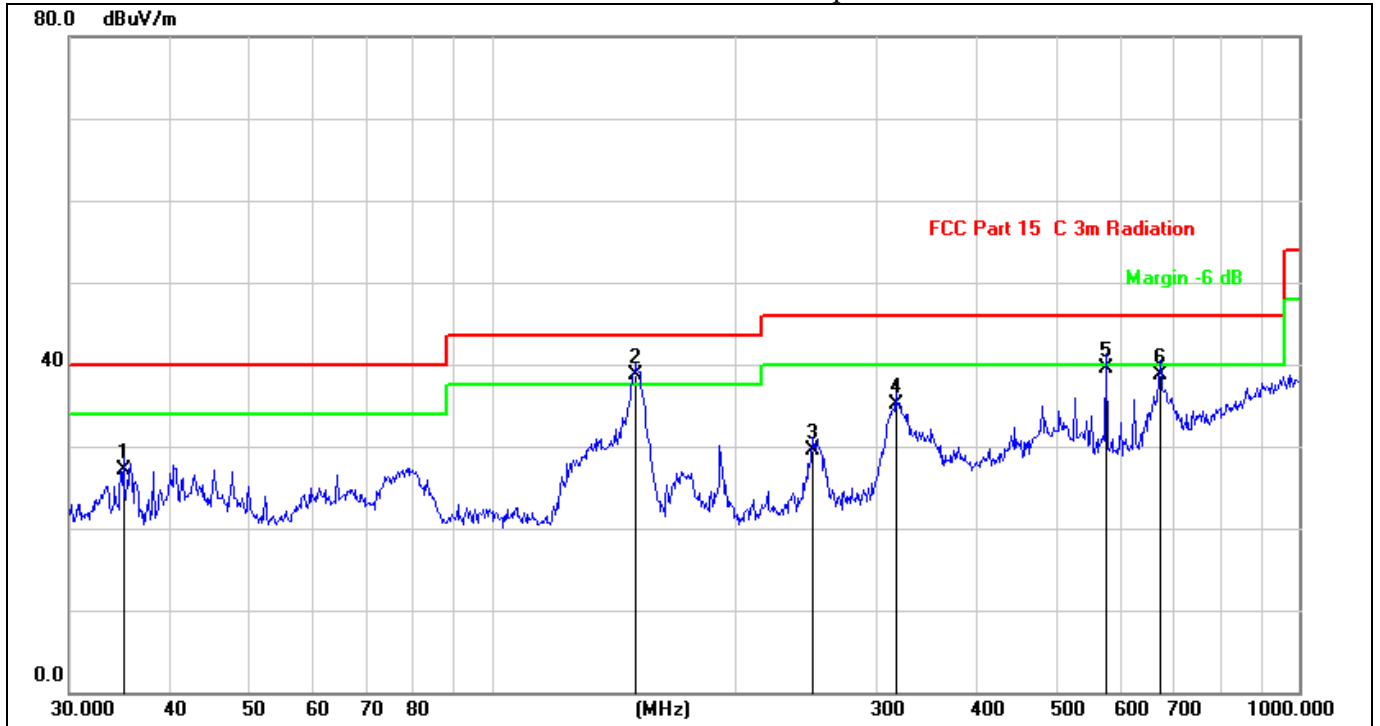
Please refer to the following test plots:



Site:	LAB	Antenna::Horizontal	Temperature(C):25.0(C)
Limit:	FCC Part 15 C 3m Radiation		Humidity(%):54.1%
EUT:	Smart Wireless Battery Camera	Test Time:	2023/03/22 14:05:43
M/N.:	E933J3F-V2	Power Rating:	AC 120V/60Hz
Mode:	TX2412	Test Engineer:	Sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1 !	480.5276	40.06	1.30	41.36	46.00	-4.64	QP	
2	504.7062	37.12	1.53	38.65	46.00	-7.35	QP	
3	528.2458	36.02	1.83	37.85	46.00	-8.15	QP	
4 *	576.6443	40.28	2.70	42.98	46.00	-3.02	QP	
5	625.0779	32.68	3.16	35.84	46.00	-10.16	QP	
6 !	721.7259	36.51	5.51	42.02	46.00	-3.98	QP	

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



Site:	LAB	Antenna::	Vertical	Temperature(C):	25.0(C)
Limit:	FCC Part 15 C 3m Radiation	Test Time:	2023/03/22 14:10:04	Humidity(%):	54.1%
EUT:	Smart Wireless Battery Camera	Power Rating:	AC 120V/60Hz	Test Engineer:	Sunshine
M/N.:	E933J3F-V2	Test Engineer:	Sunshine		
Mode:	TX2412				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	35.0048	34.09	-7.07	27.02	40.00	-12.98	QP	
2 *	151.0666	48.99	-10.37	38.62	43.50	-4.88	QP	
3	249.4250	33.39	-3.85	29.54	46.00	-16.46	QP	
4	316.5890	36.67	-1.63	35.04	46.00	-10.96	QP	
5	576.6443	36.88	2.70	39.58	46.00	-6.42	QP	
6	672.8444	34.45	4.24	38.69	46.00	-7.31	QP	

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

**Above 1GHz:**

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 Date : 2023-03-16  
 Test Voltage: DC 3.7V Test by: Big

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	64.03	44.05	74	54	-9.97	-9.95
7236	V	62.13	42.56	74	54	-11.87	-11.44
9648	V	60.36	41.56	74	54	-13.64	-12.44
12060	V	59.02	40.06	74	54	-14.98	-13.94
14472	V	56.12	37.06	74	54	-17.88	-16.94
16884	V	55.43	36.13	74	54	-18.57	-17.87
4824	H	62.75	42.73	74	54	-11.25	-11.27
7236	H	61.61	42.51	74	54	-12.39	-11.49
9648	H	60.08	40.89	74	54	-13.92	-13.11
12060	H	59.41	39.42	74	54	-14.59	-14.58
14472	H	57.03	38.13	74	54	-16.97	-15.87
16884	H	56.24	36.46	74	54	-17.76	-17.54

Operation Mode: 802.11b Middle Test Date : 2023-03-16  
 Test Voltage: DC 3.7V Test by: Big

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	62.32	43.28	74	54	-11.68	-10.72
7311	V	61.32	41.65	74	54	-12.68	-12.35
9688	V	59.53	40.38	74	54	-14.47	-13.62
12185	V	57.53	38.01	74	54	-16.47	-15.99
14622	V	56.24	36.85	74	54	-17.76	-17.15
17059	V	55.14	36.28	74	54	-18.86	-17.72
4874	H	63.12	43.05	74	54	-10.88	-10.95
7311	H	61.86	42.58	74	54	-12.14	-11.42
9688	H	59.31	40.12	74	54	-14.69	-13.88
12185	H	57.28	38.14	74	54	-16.72	-15.86
14622	H	56.31	36.47	74	54	-17.69	-17.53
17059	H	56.75	37.02	74	54	-17.25	-16.98

Operation Mode: 802.11b Highest

Test Date : 2023-03-16

Test Voltage: DC 3.7V

Test by: Big

Freq. (MHz)	Ant. Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4924	V	62.31	43.05	74	54	-11.69	-10.95
7386	V	61.86	40.86	74	54	-12.14	-13.14
9848	V	59.77	41.05	74	54	-14.23	-12.95
12310	V	58.61	38.96	74	54	-15.39	-15.04
14772	V	56.47	37.14	74	54	-17.53	-16.86
17234	V	55.63	37.04	74	54	-18.37	-16.96
4924	H	62.43	43.05	74	54	-11.57	-10.95
7386	H	60.14	41.52	74	54	-13.86	-12.48
9848	H	59.25	40.38	74	54	-14.75	-13.62
12310	H	58.61	40.03	74	54	-15.39	-13.97
14772	H	57.86	39.05	74	54	-16.14	-14.95
17234	H	56.21	37.25	74	54	-17.79	-16.75

**All emissions not reported were more than 20dB below the specified limit or in the noise floor.**

**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.

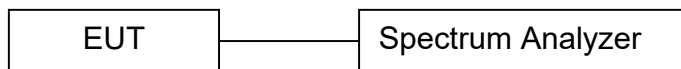
## 8. 6dB Bandwidth Test

### 8.1 Measurement Procedure

The EUT was operating in IEEE 802.11b, 802.11g, 802.11n(HT20) mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02 .

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequency) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 8.2 Test SET-UP (Block Diagram of Configuration)



### 8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

### 8.4 Measurement Results

6db Bandwidth Test Data Chart:

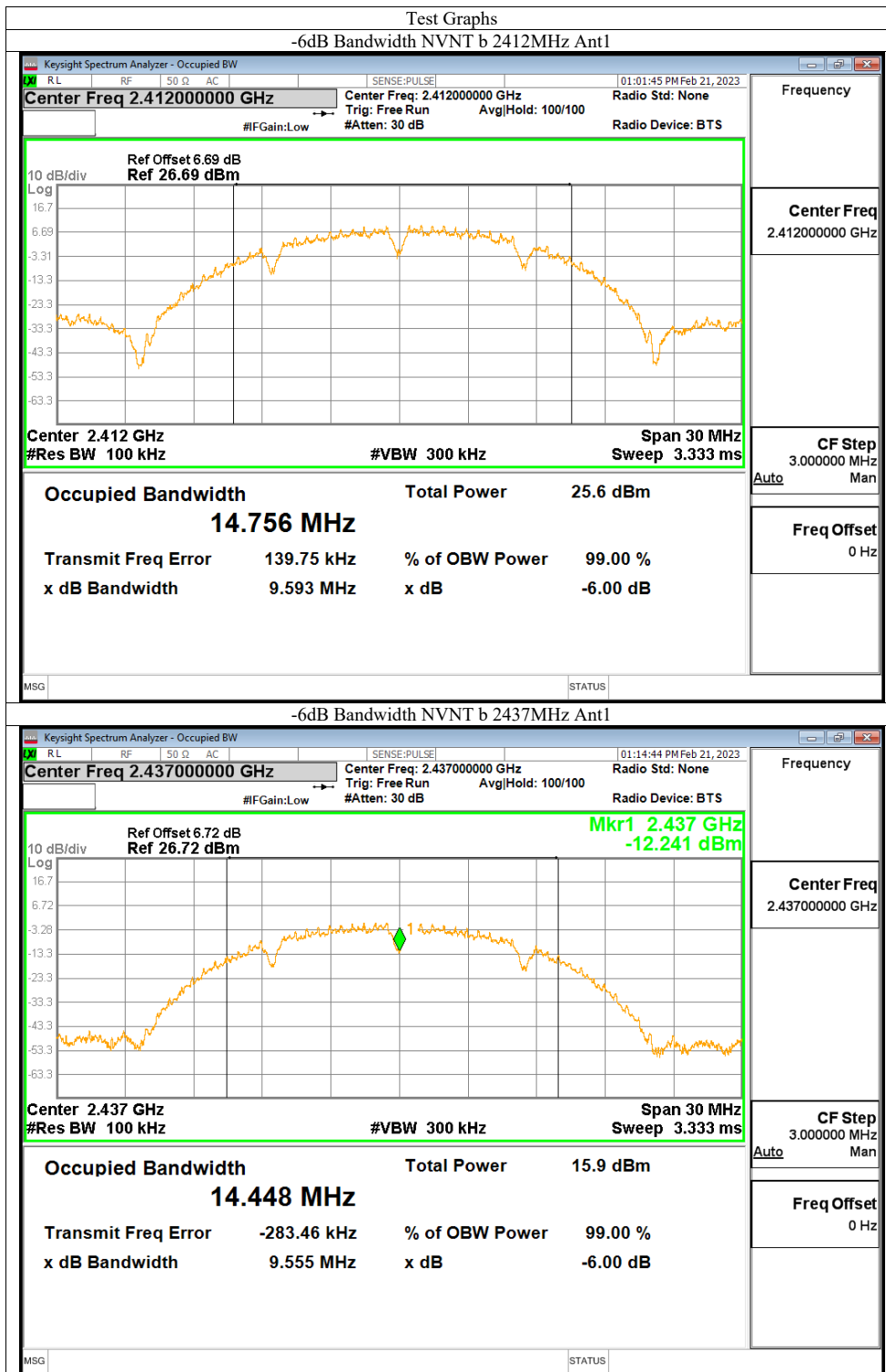
Refer to attached data chart.

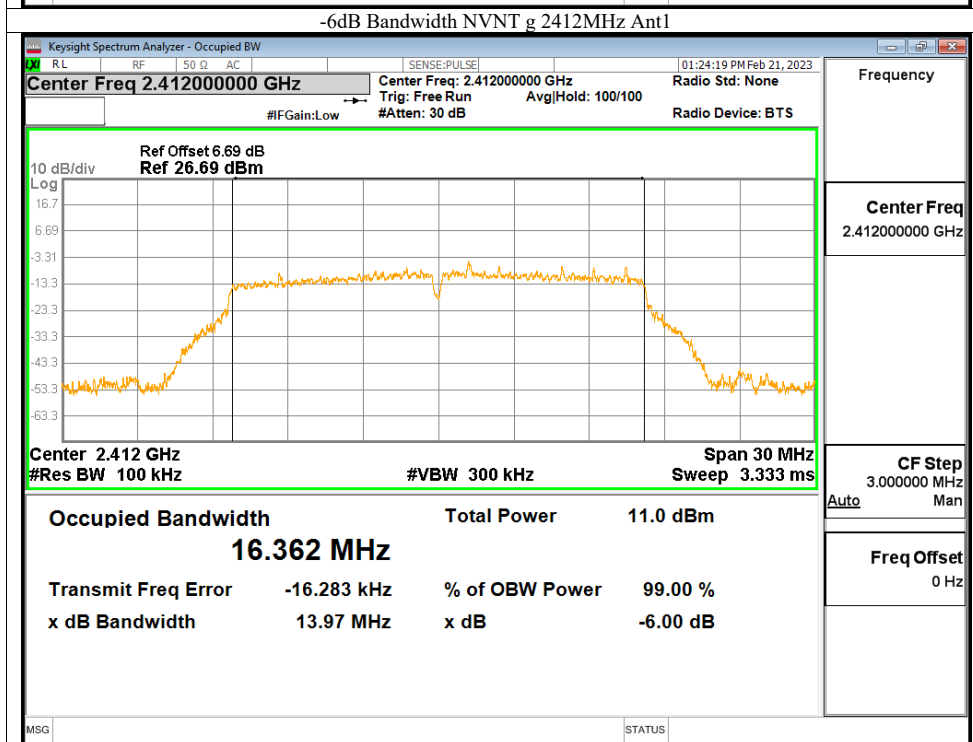
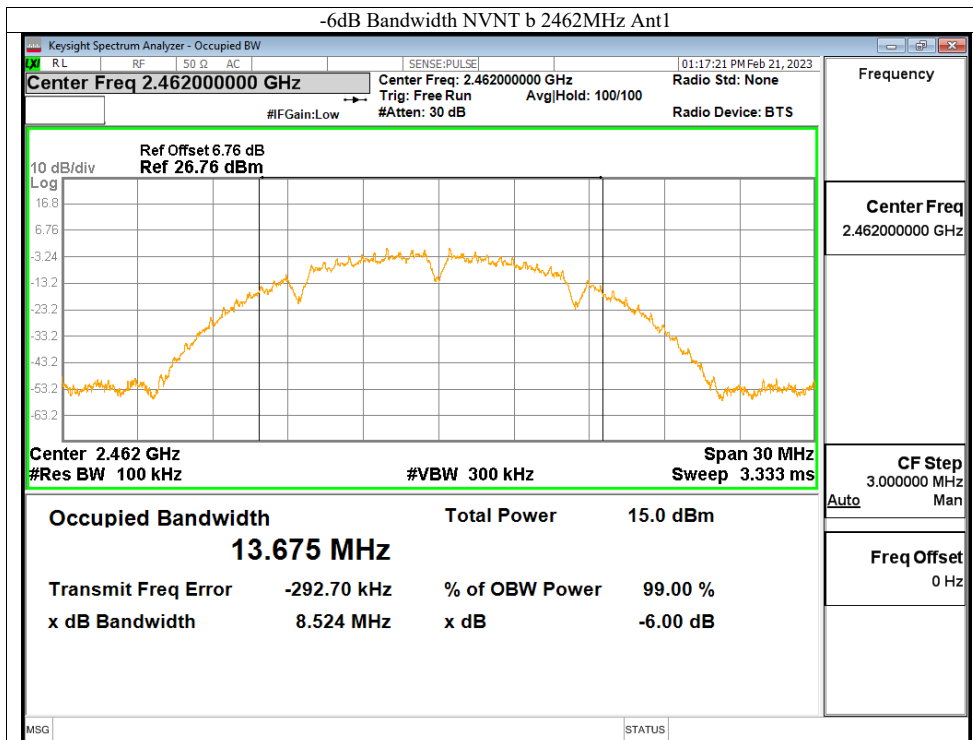


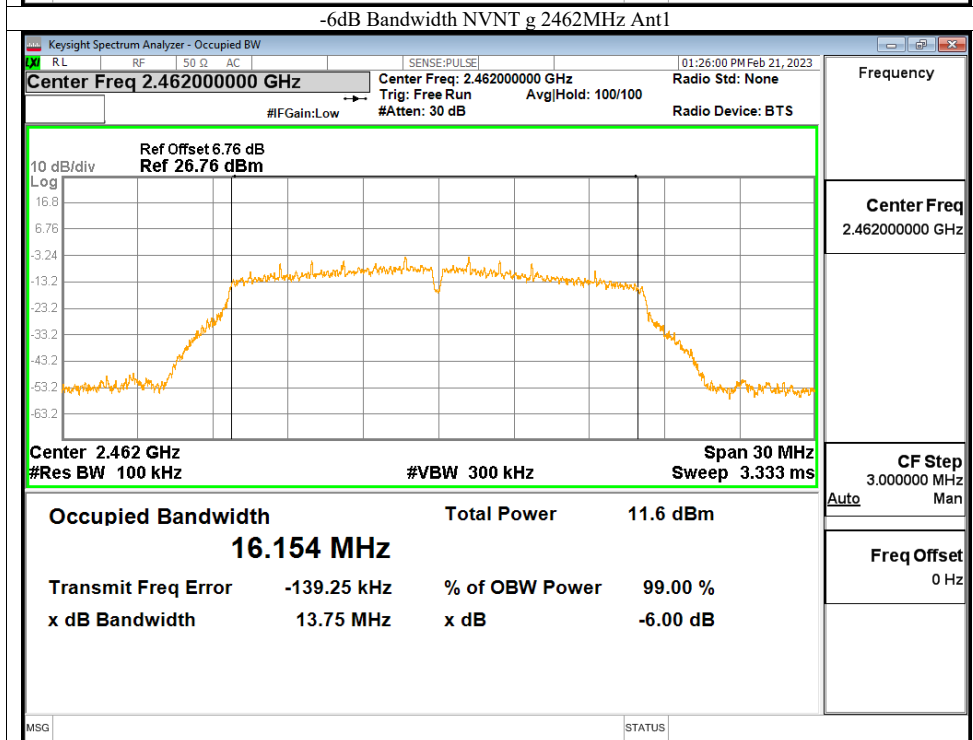
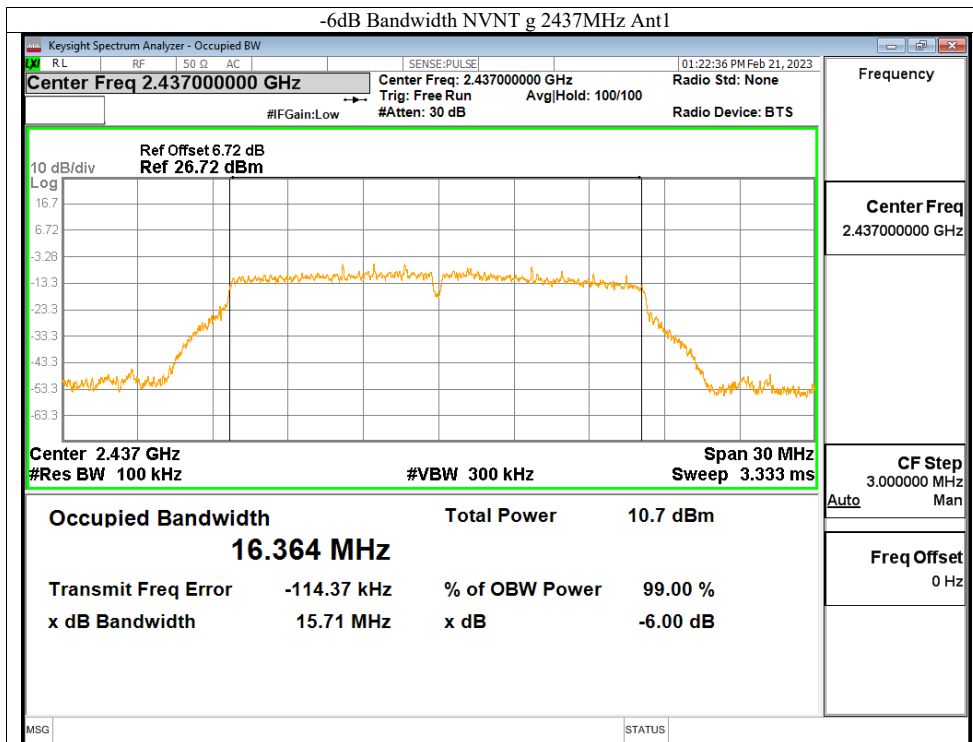
Spectrum Detector: PK  
 Test By: Big  
 Humidity : 60%

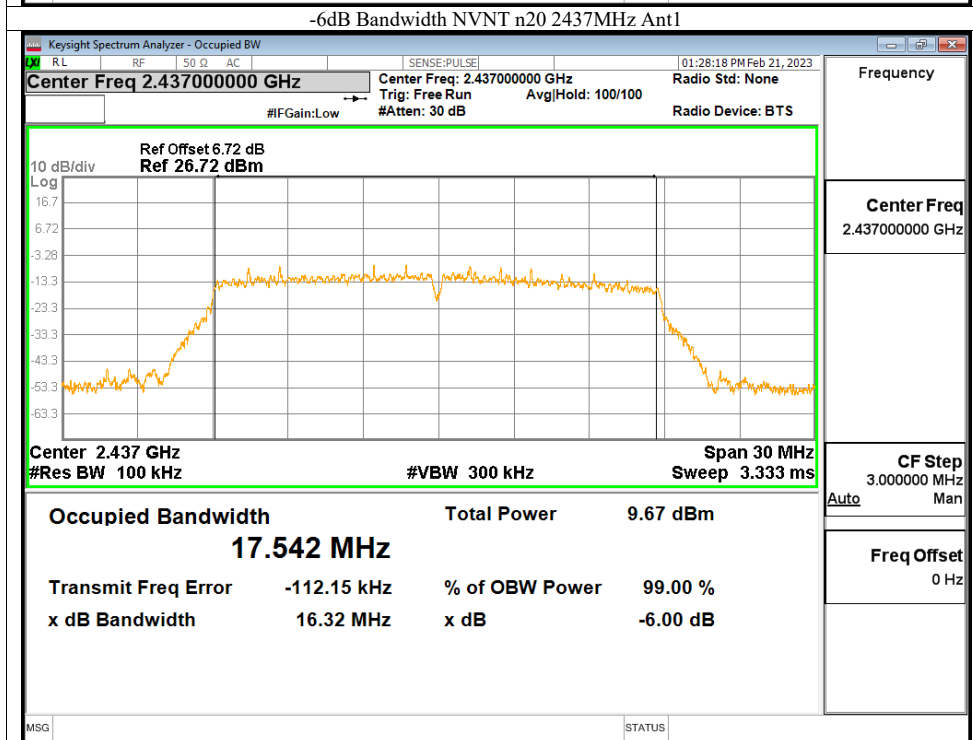
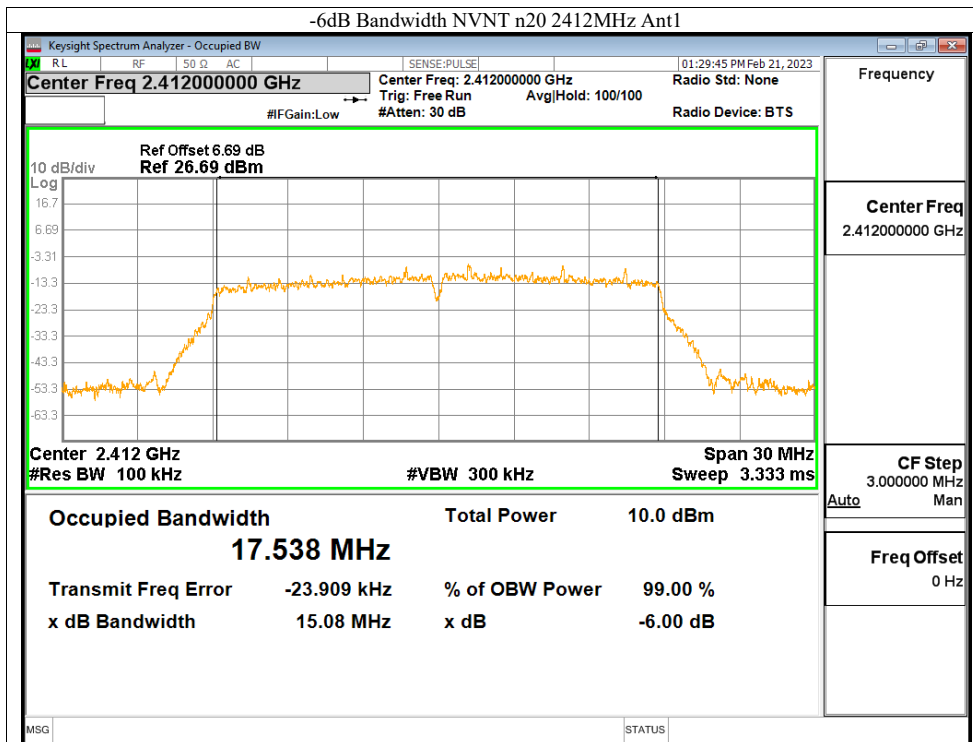
Test Date : 2023-03-16  
 Temperature : 26°C

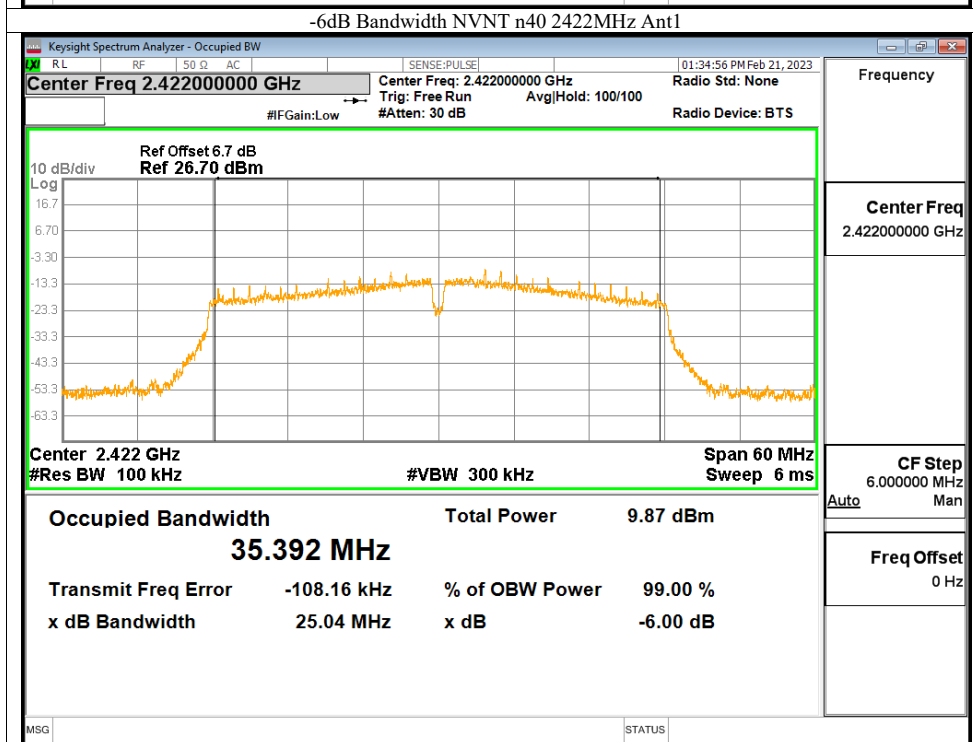
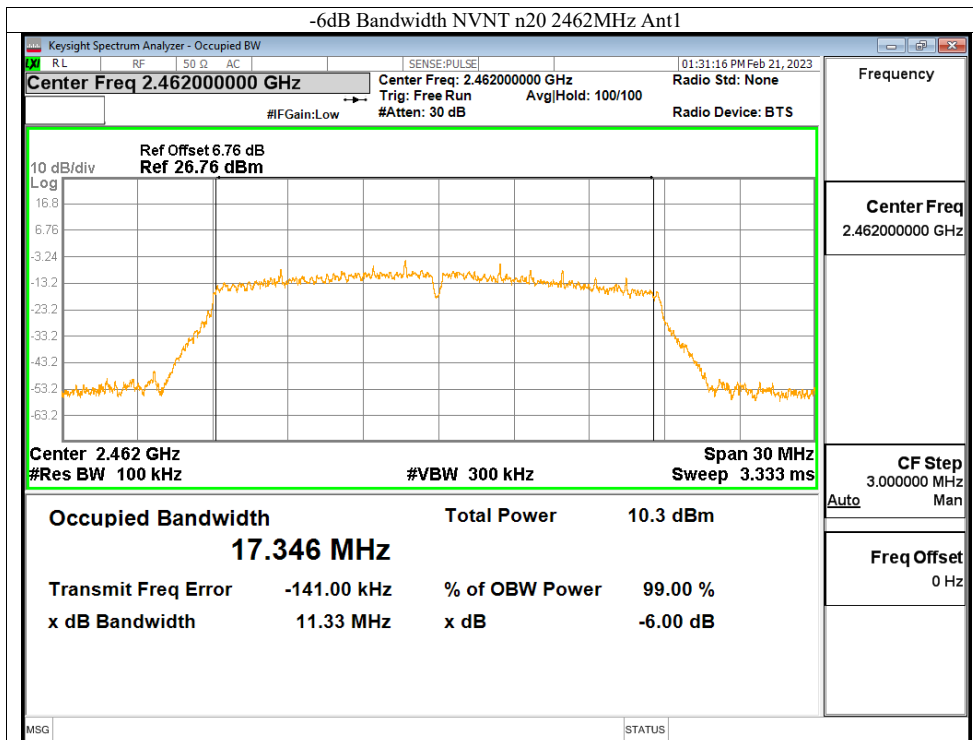
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.593	0.5	Pass
b	2437	Ant1	9.555	0.5	Pass
b	2462	Ant1	8.524	0.5	Pass
g	2412	Ant1	13.973	0.5	Pass
g	2437	Ant1	15.707	0.5	Pass
g	2462	Ant1	13.751	0.5	Pass
n20	2412	Ant1	15.08	0.5	Pass
n20	2437	Ant1	16.319	0.5	Pass
n20	2462	Ant1	11.329	0.5	Pass
n40	2422	Ant1	25.04	0.5	Pass
n40	2437	Ant1	35.114	0.5	Pass
n40	2452	Ant1	31.283	0.5	Pass

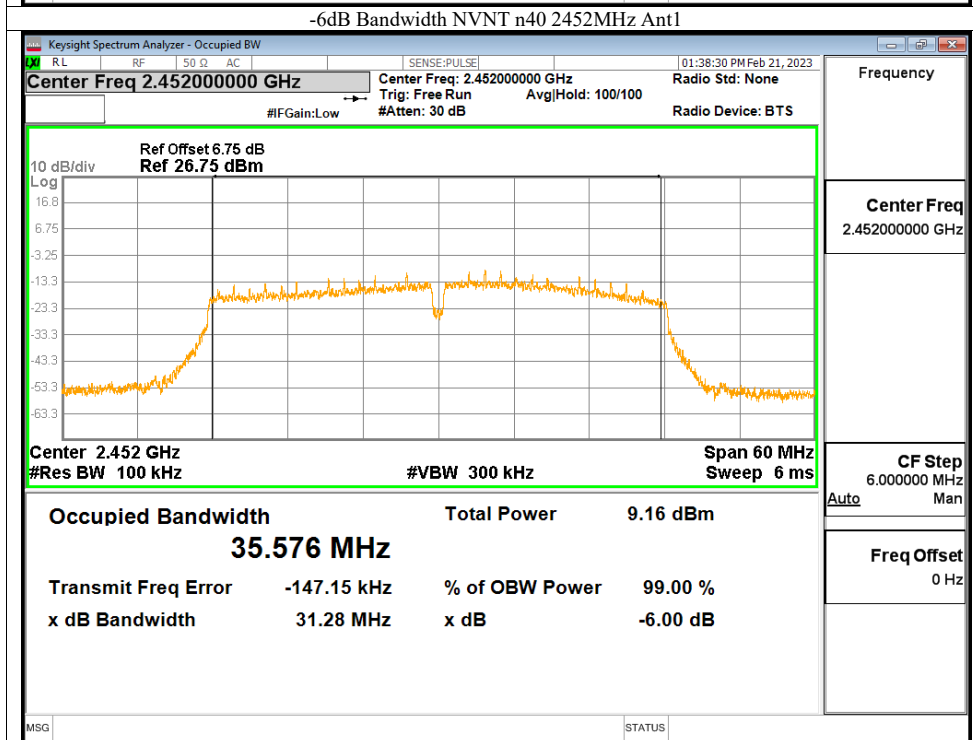
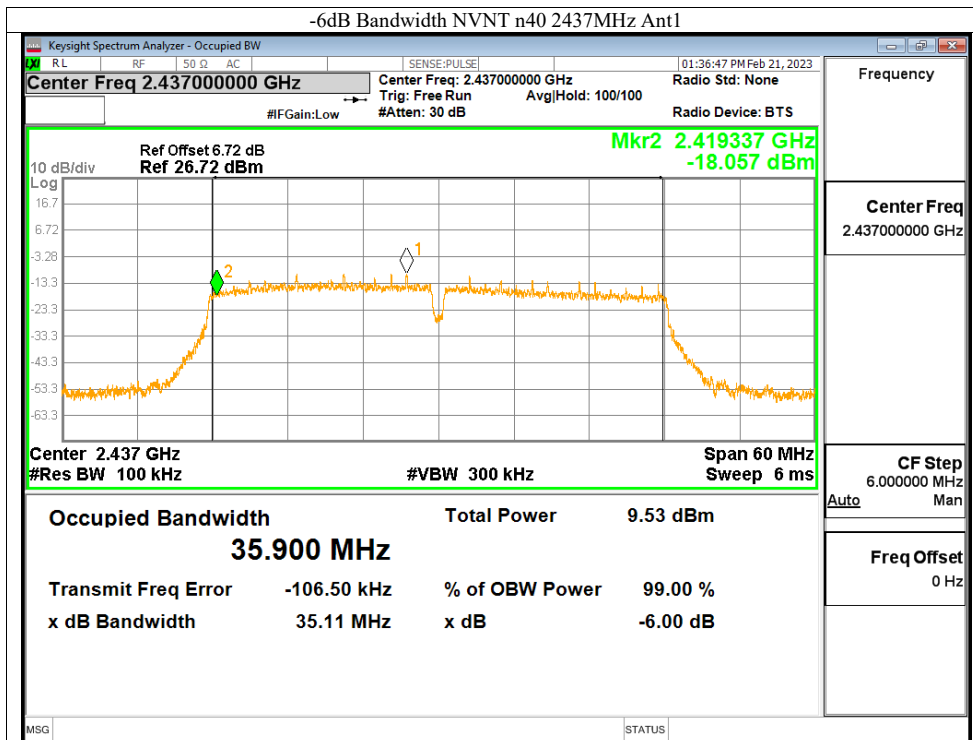












## 9. Maximum Peak Output Power Test

### 9.1 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Measure the conducted output power and record the results in the test report.

### 9.2 Test SET-UP (Block Diagram of Configuration)



### 9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
USB RF Power sensor	RadiPower	RPR3006W	17I00015SNO88	2023-10-07
RF Test Software	MAIWEI	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12
Radio Frequency control box	MWRF-test	MW200-RFCB 2#	/	2023-05-12

### 9.4 Peak Power output limit

The maximum peak power shall be less 1Watt.

### 9.5 Measurement Results

Spectrum Detector:	PK	Test Date :	2023-03-16
Test By:	Big	Temperature :	26°C
Test Result:	PASS	Humidity :	60%

Test Channel	Peak Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	12.61	12.66	11.74	11.12	30	Pass
Middle	12.61	12.46	11.49	10.88		
Highest	11.83	13.18	12.27	10.46		



## 10. Band Edge Test

### 10.1 Measurement Procedure

#### For Conducted Test

1. The testing follows FCC KDB Publication No. 5558074 D01 15.247 Meas Guidance v05r02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. Measure and record the results in the test report.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### For Radiated emission Test

1. The testing follows FCC KDB Publication No. 5558074 D01 15.247 Meas Guidance v05r02.
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.
3. The EUT was placed on a turntable with 0.8 meter 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.
6. For measurement below 1GHz, 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.
7. Repeat above procedures until all frequency measured were complete.

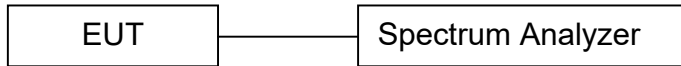
When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	AVG
Trace	Max hold

**10.2 Test SET-UP (Block Diagram of Configuration)**



**10.3 Measurement Equipment Used**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

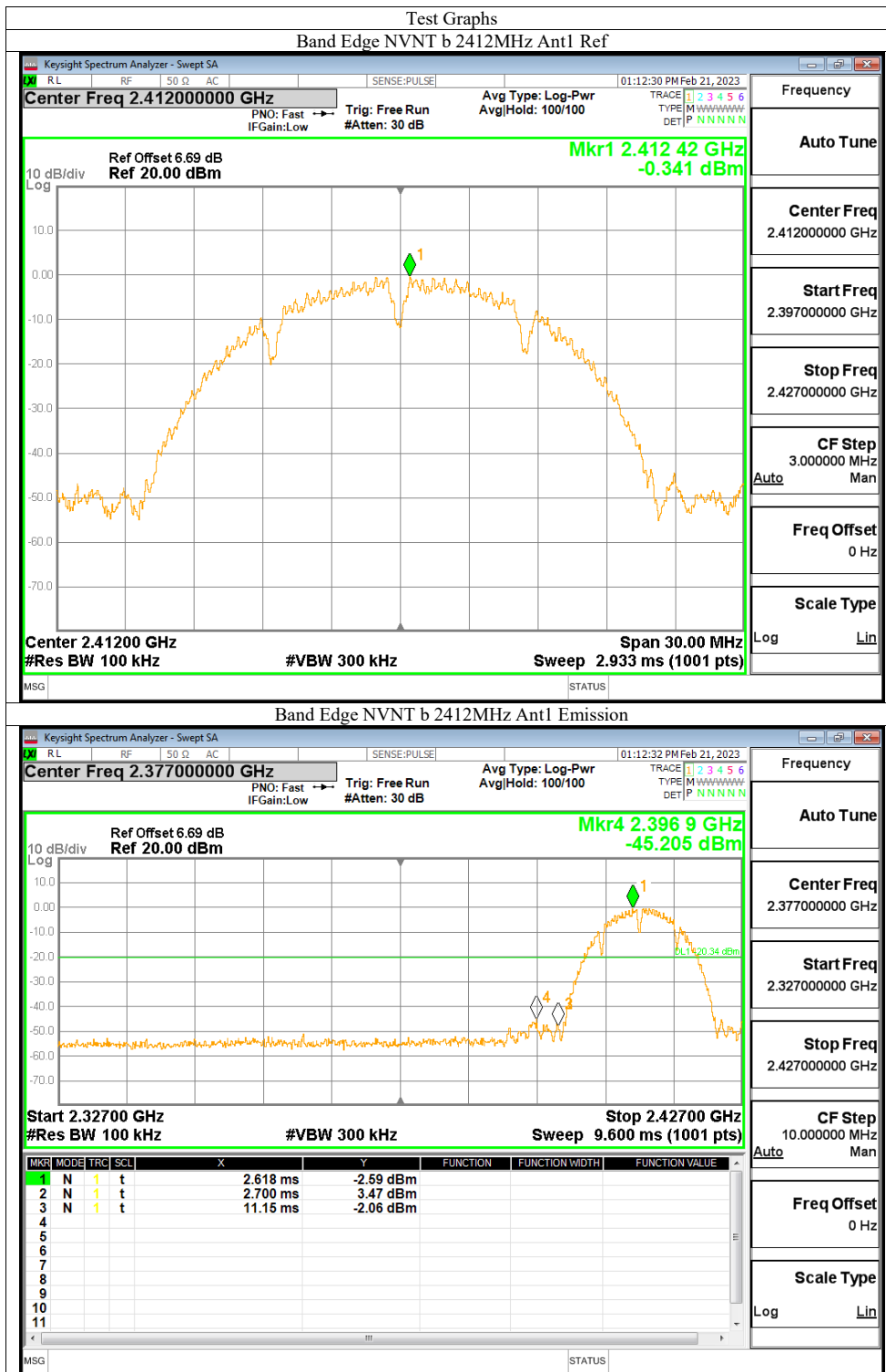
**10.4 Measurement Results**

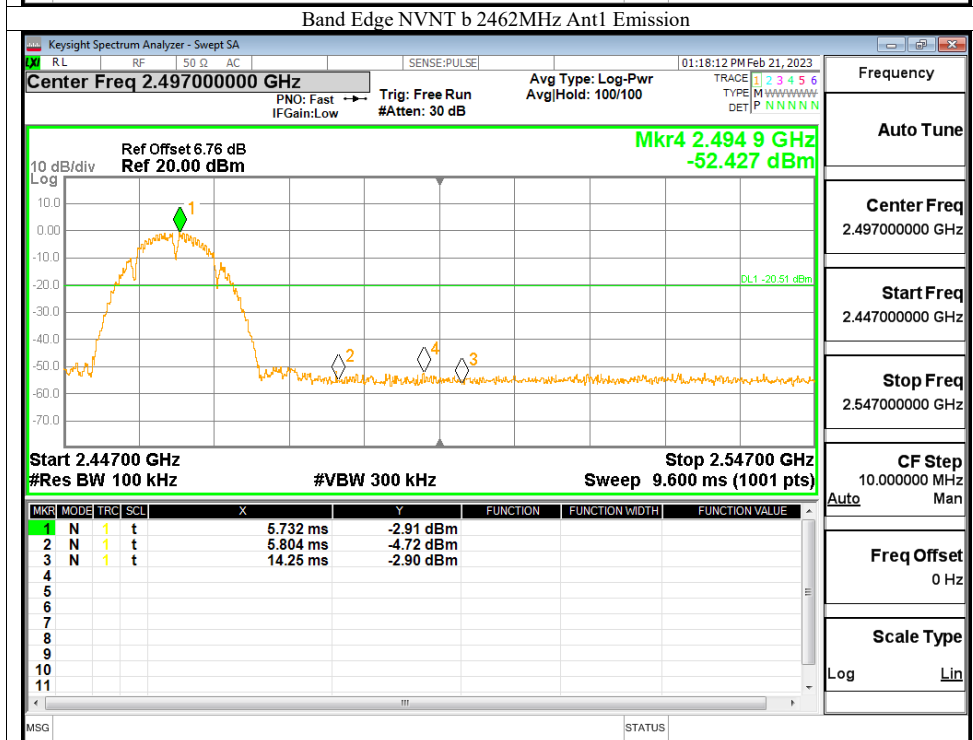
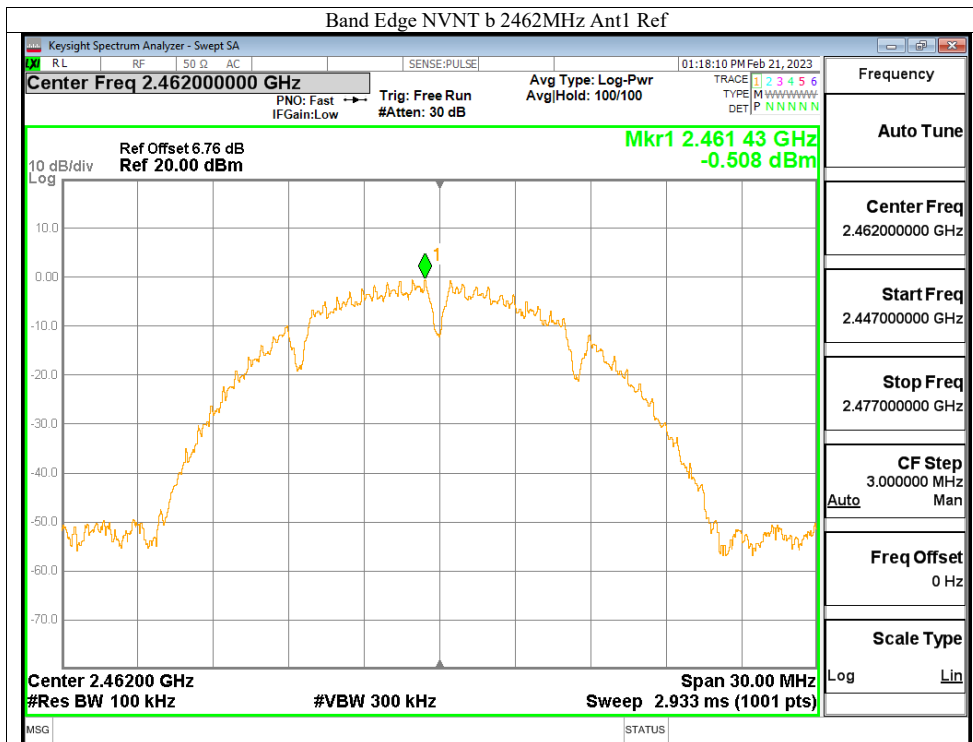
1. Conducted Test

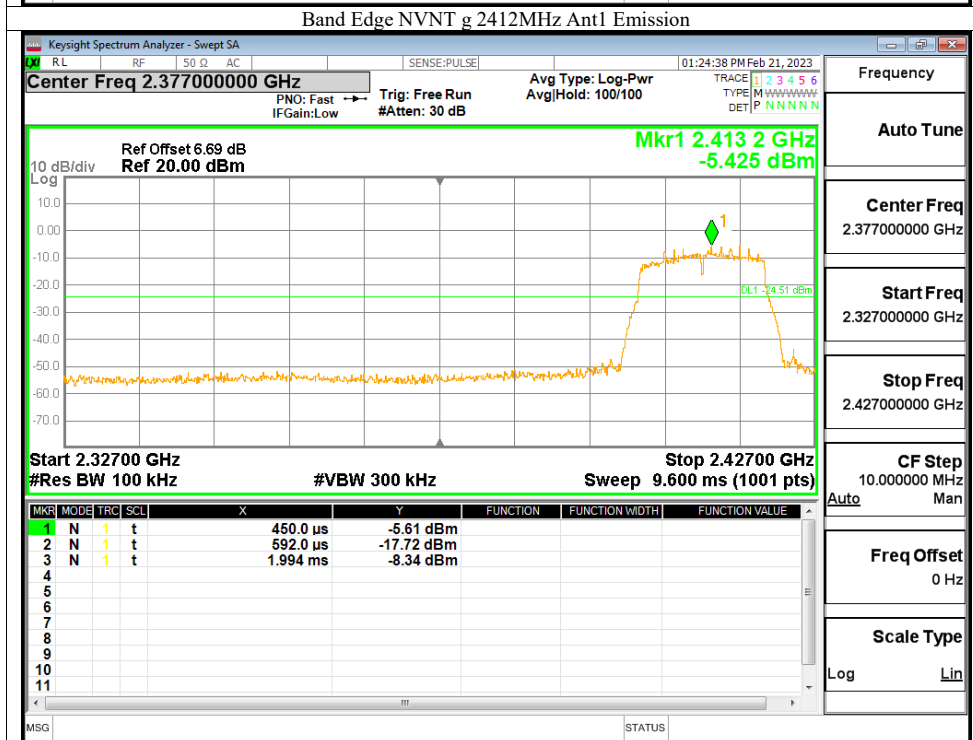
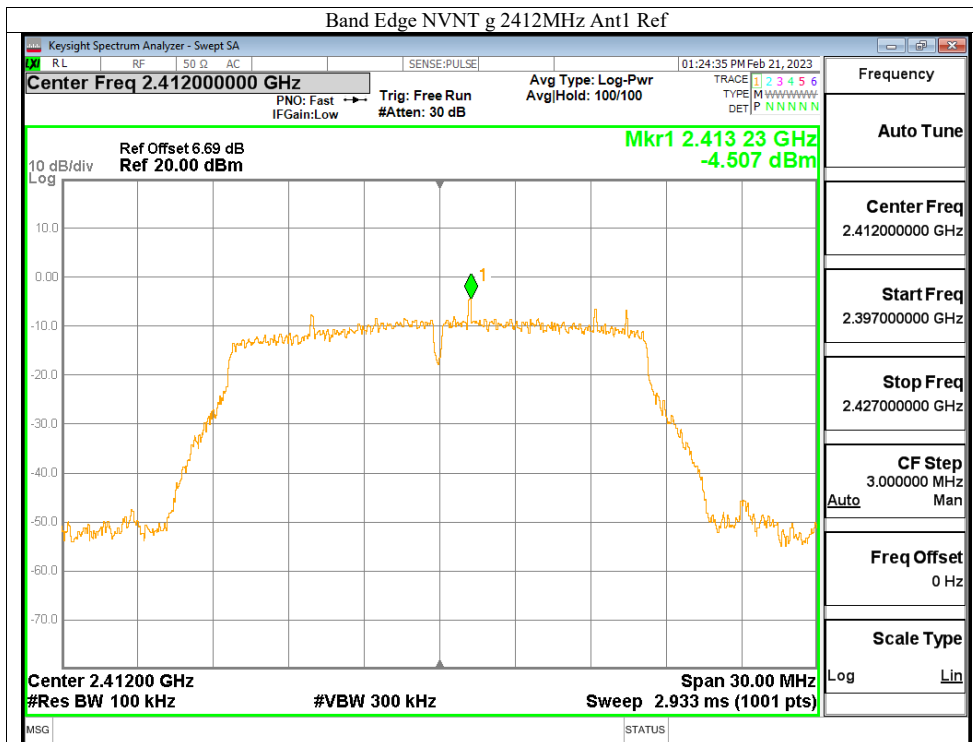
Please refer to the following pages.

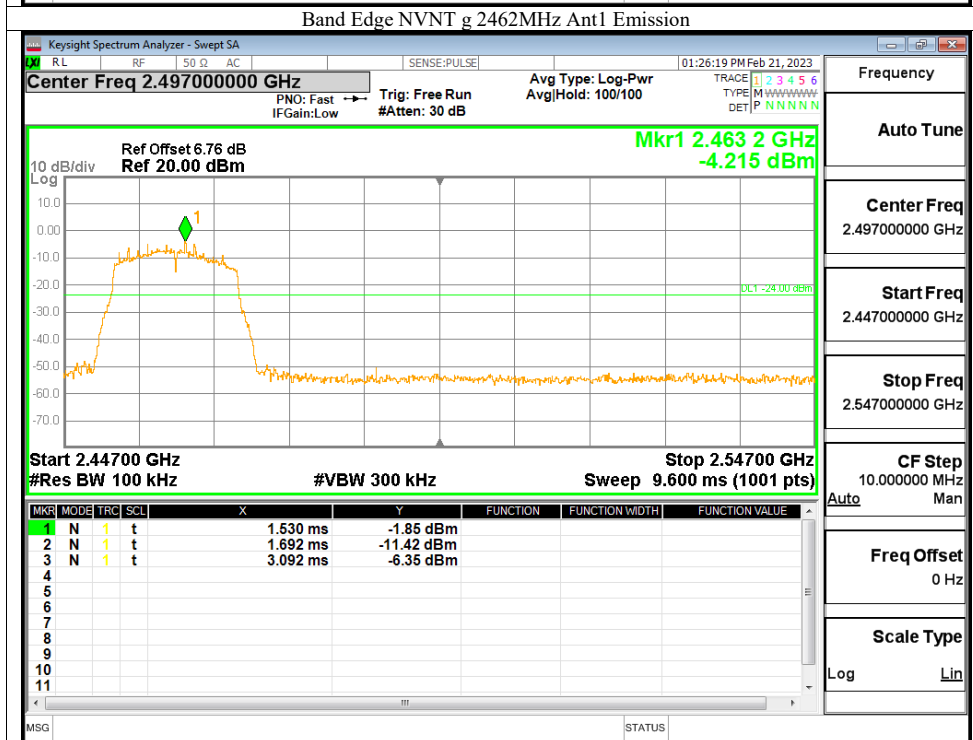
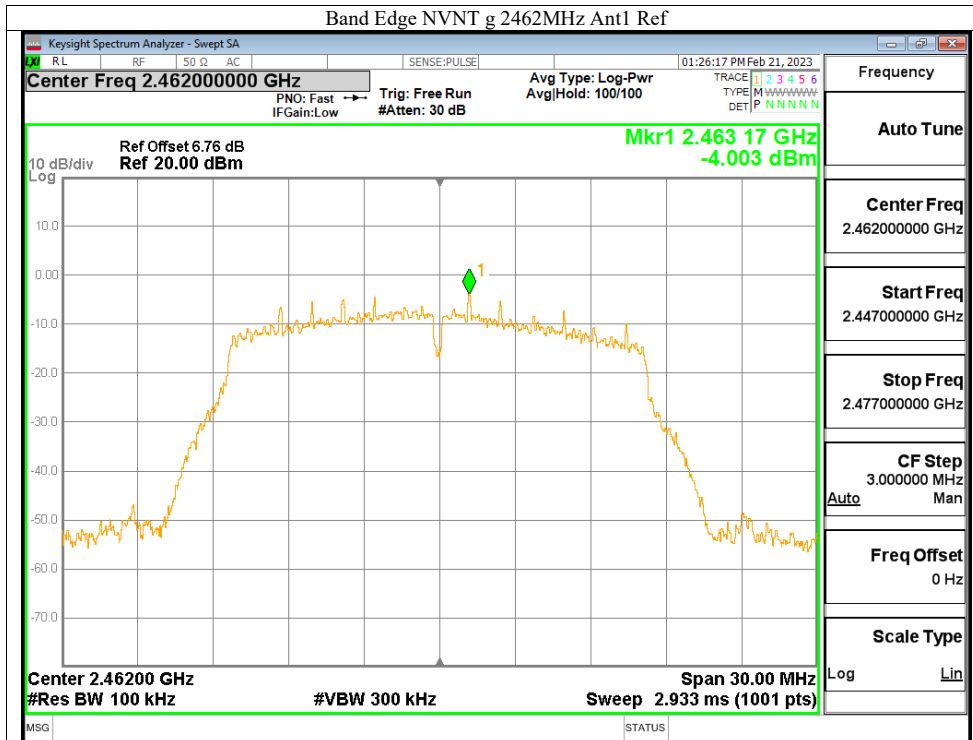
Spectrum Detector:	PK	Test Date :	2023-03-16
Test By:	Big	Temperature :	26°C
Test Result:	PASS	Humidity :	60%

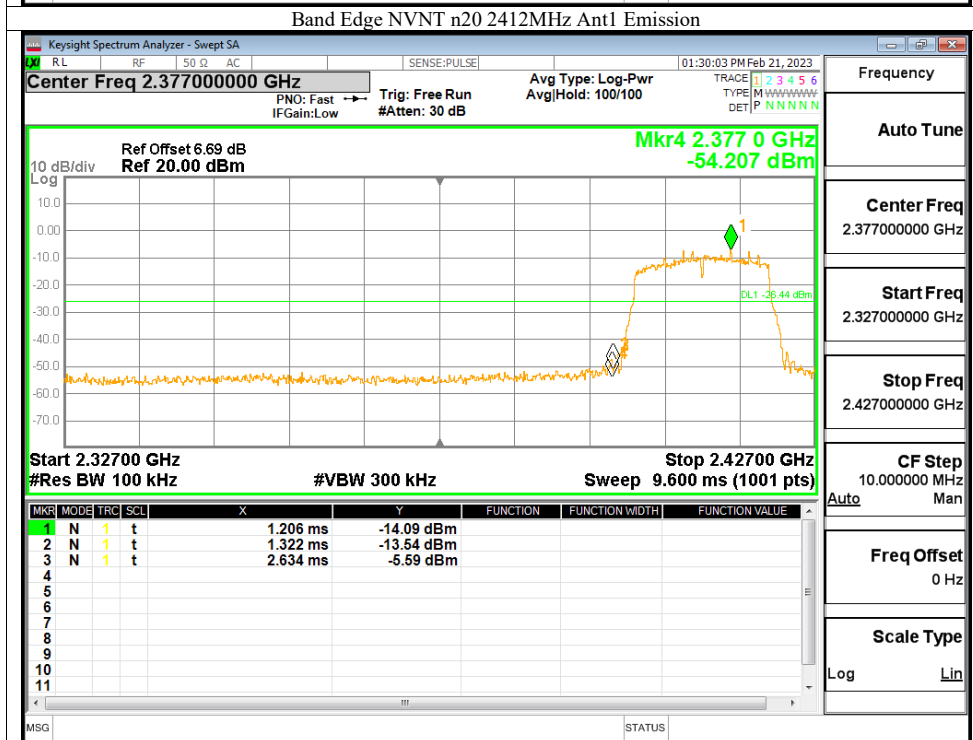
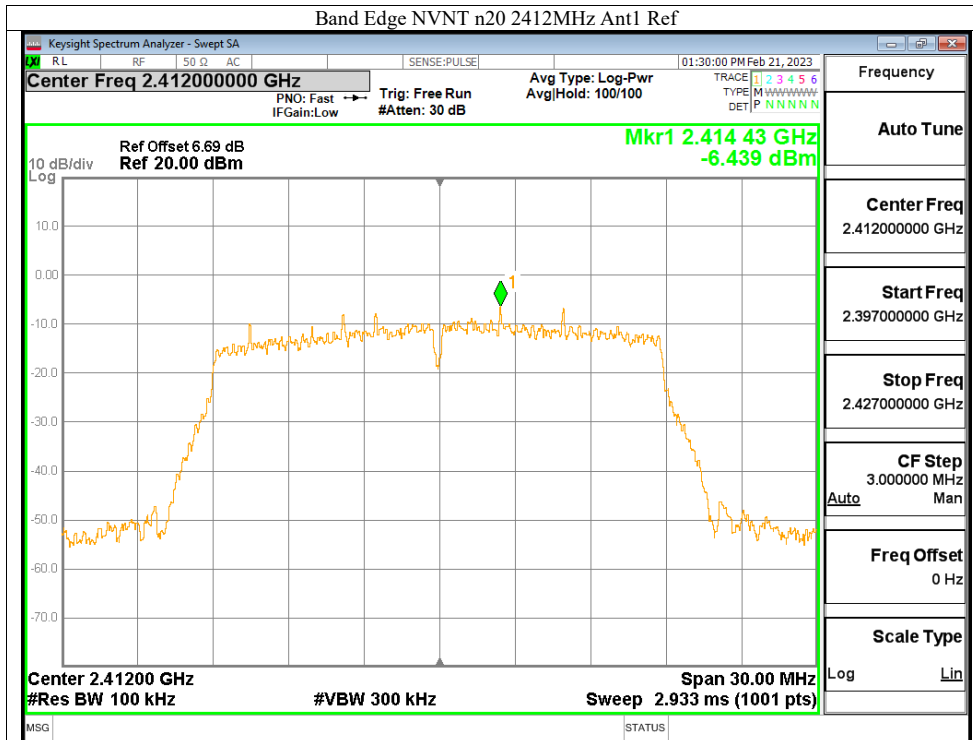
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-44.86	-20	Pass
b	2462	Ant1	-51.91	-20	Pass
g	2412	Ant1	-42.91	-20	Pass
g	2462	Ant1	-46.63	-20	Pass
n20	2412	Ant1	-41.08	-20	Pass
n20	2462	Ant1	-46.62	-20	Pass
n40	2422	Ant1	-42.23	-20	Pass
n40	2452	Ant1	-43.02	-20	Pass

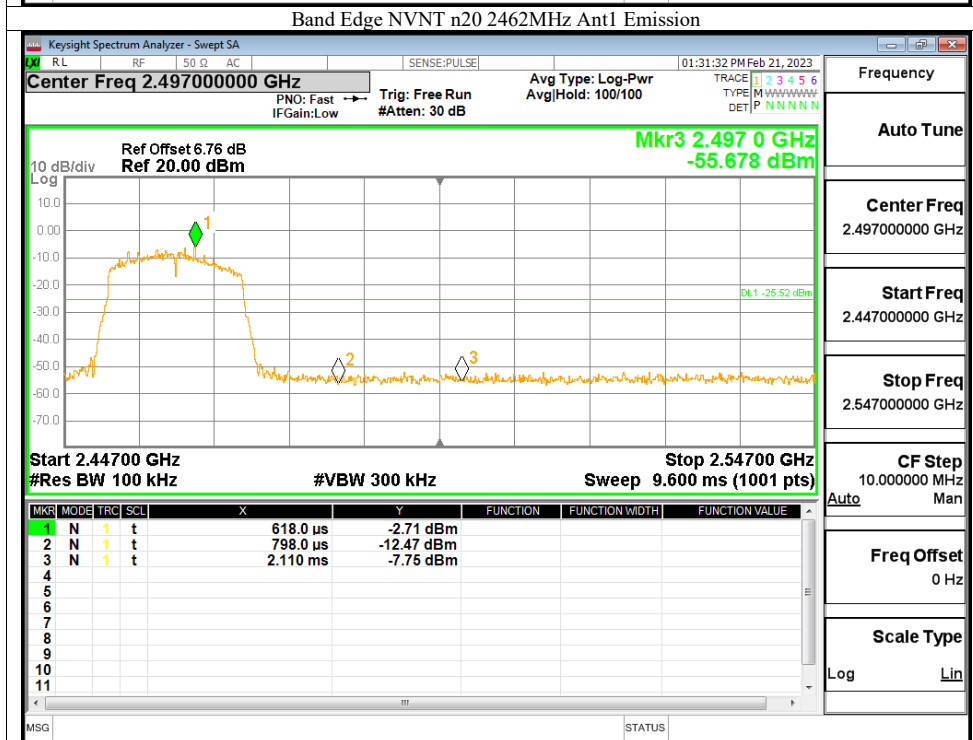
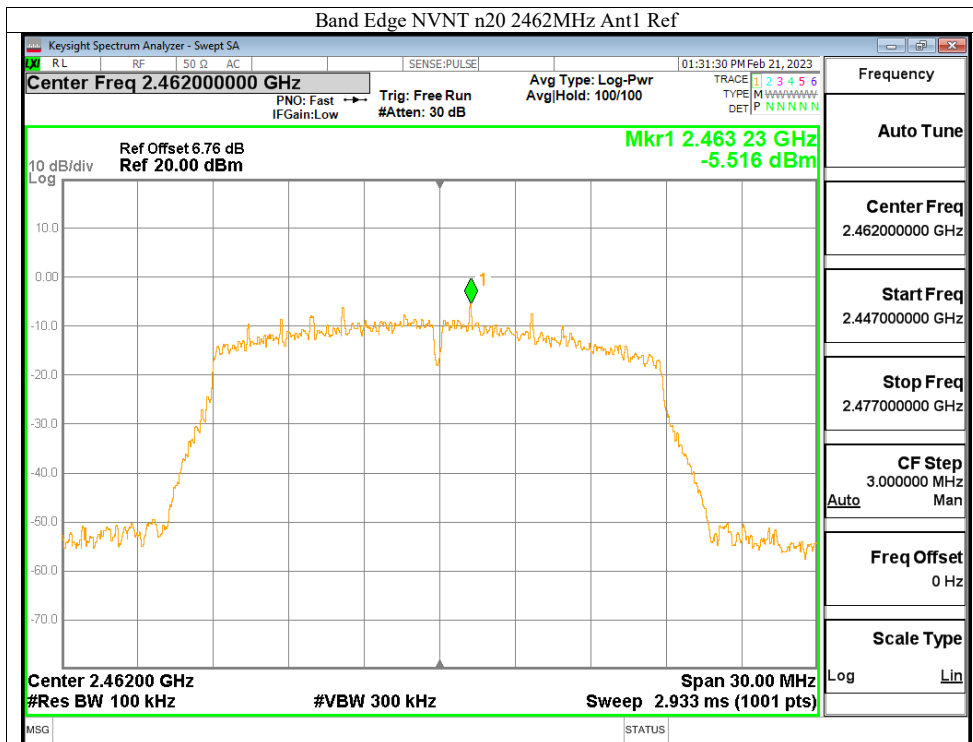




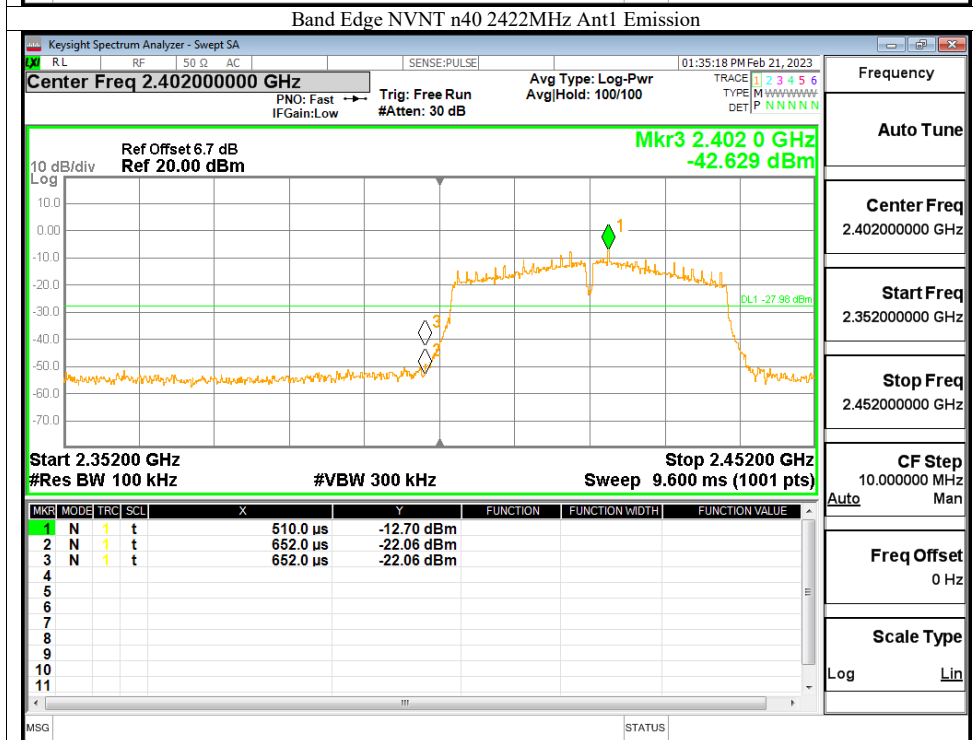
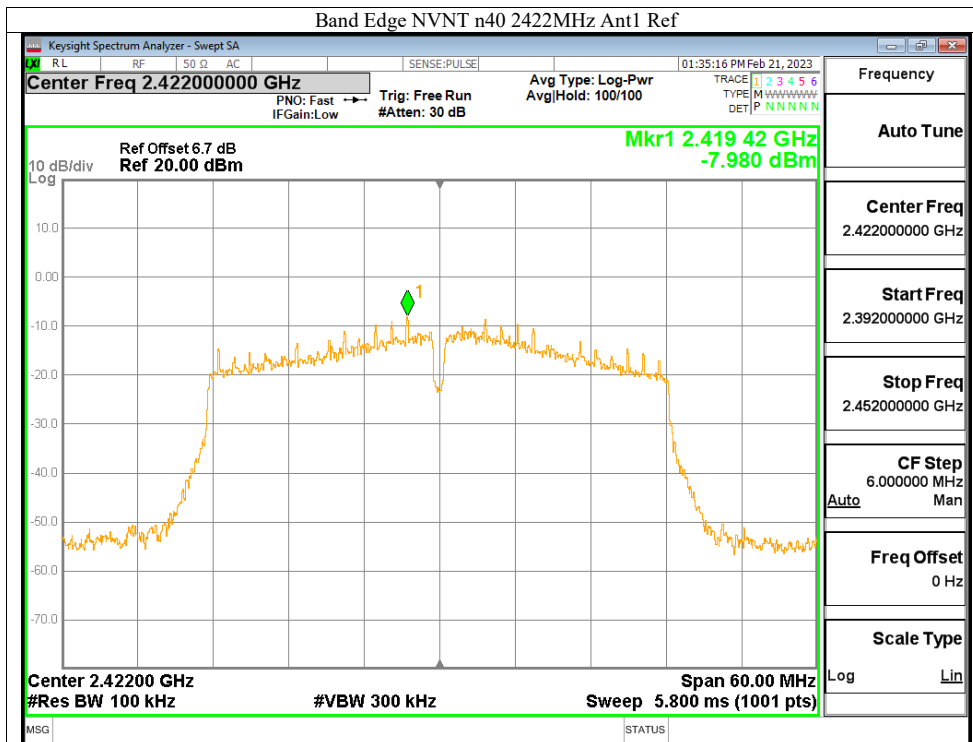


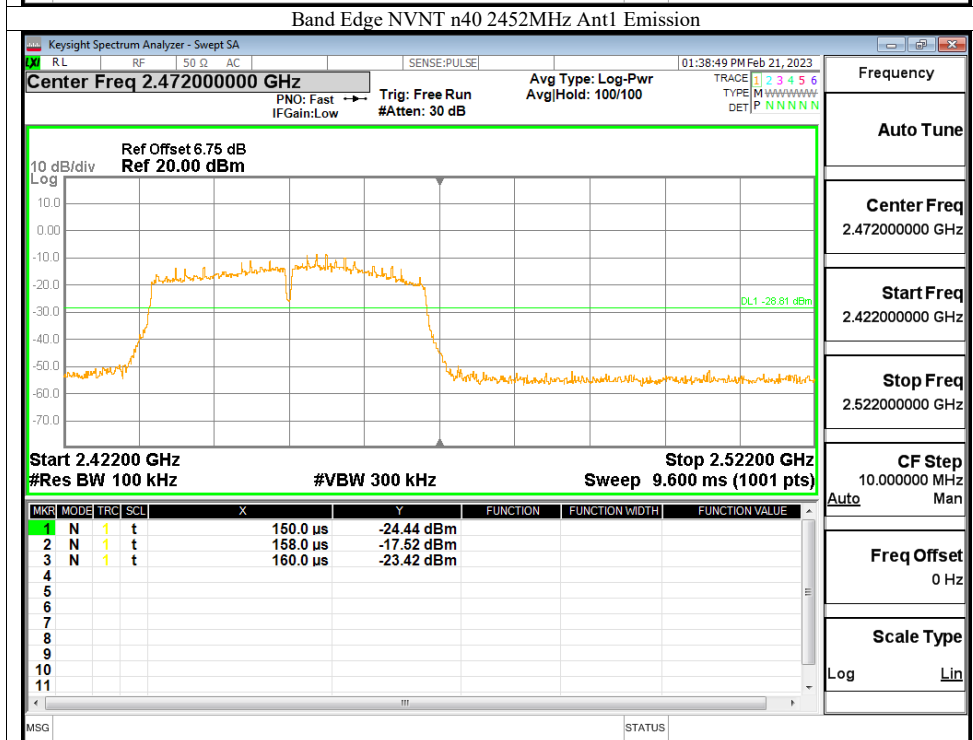
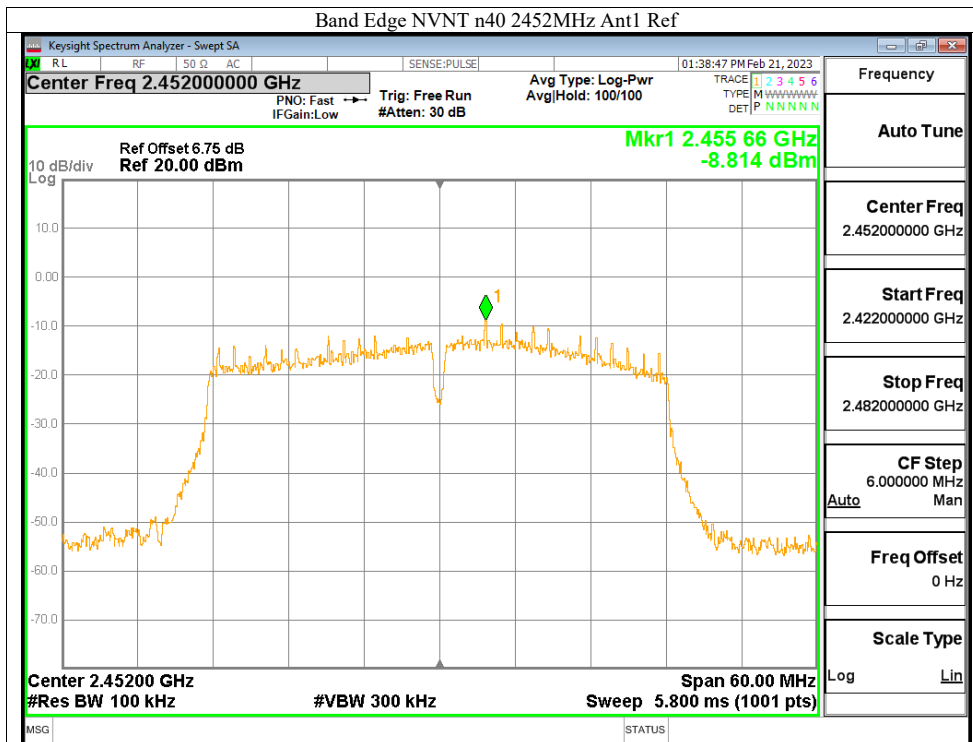












## 2. Radiated emission Test

Spectrum Detector: PK/AV      Test Date : 2023-03-16  
 Test By: Big      Temperature : 28 °C  
 Humidity : 65 %

IEEE 802.11b SISO										
Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<2400	H	87.55	68.65	-26.3	61.25	42.35	74	54	-12.75	-11.65
<2400	V	86.35	66.22	-26.1	60.25	40.12	74	54	-13.75	-13.88
>2483.5	H	88.15	68.35	-26.3	61.85	42.05	74	54	-12.15	-11.95
>2483.5	V	86.53	65.62	-26.1	60.43	39.52	74	54	-13.57	-14.48

IEEE 802.11g SISO										
Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<2400	H	91.31	70.61	-26.3	65.01	44.31	74	54	-8.99	-9.69
<2400	V	86.85	67.41	-26.1	60.75	41.31	74	54	-13.25	-12.69
>2483.5	H	87.84	67.88	-26.3	61.54	41.58	74	54	-12.46	-12.42
>2483.5	V	86.53	68.68	-26.1	60.43	42.58	74	54	-13.57	-11.42

IEEE 802.11n(HT20) SISO										
Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<2400	H	89.34	70.44	-26.3	63.04	44.14	74	54	-10.96	-9.86
<2400	V	86.31	68.68	-26.1	60.21	42.58	74	54	-13.79	-11.42
>2483.5	H	89.28	69.26	-26.3	62.98	42.96	74	54	-11.02	-11.04
>2483.5	V	87.68	68.15	-26.1	61.58	42.05	74	54	-12.42	-11.95

IEEE 802.11n(HT40) SISO										
Freq. (MHz)	Ant. Pol.	Reading Level(dBuV/m)		Correct Factor dB	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<2400	H	89.88	69.51	-26.3	63.58	43.21	74	54	-10.42	-10.79
<2400	V	86.33	68.45	-26.1	60.23	42.35	74	54	-13.77	-11.65
>2483.5	H	86.58	66.88	-26.3	60.28	40.58	74	54	-13.72	-13.42
>2483.5	V	85.96	66.23	-26.1	59.86	40.13	74	54	-14.14	-13.87

## 11. Power Density

### 11.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

### 11.2 Measuring Instruments and Setting

The following table is the setting of spectrum analyzer.

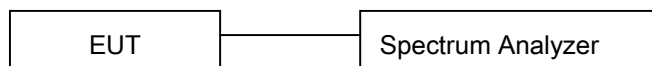
Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	Set the span to 1.5 times the DTS bandwidth.
RB	3kHz
VB	10KHz
Detector	Peak
Trace	Max hold
Sweep Time	Automatic

### 11.3 Test Procedures

The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02.

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set analyzer center frequency to DTS channel center frequency.
- Set the analyzer span to a minimum of 1.5 times the DTS bandwidth.
- Set the RBW  $\geq 3$  kHz. Set the VBW  $\geq 3 \times$  RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

### 11.4 Block Diagram of Test Setup



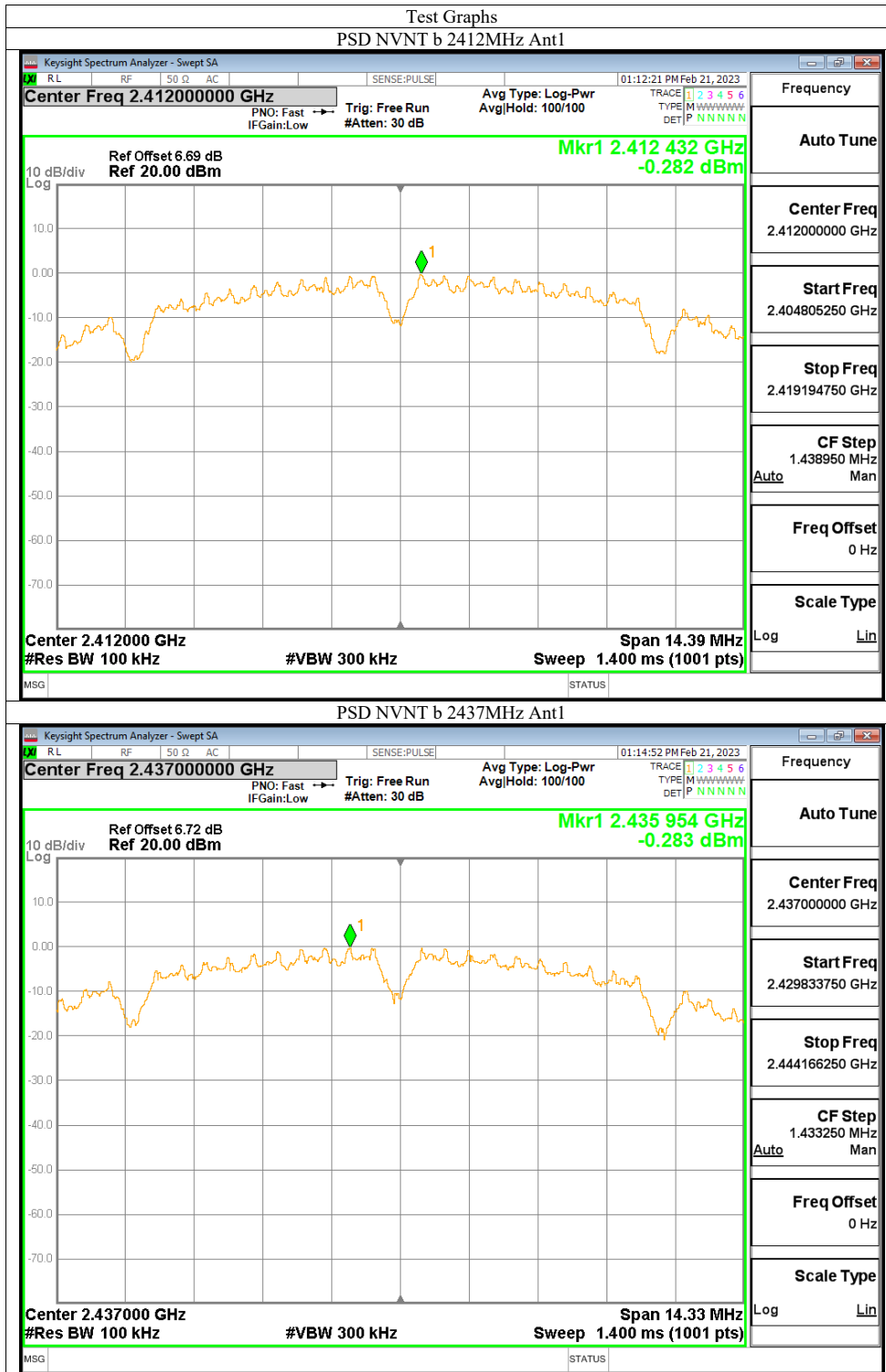
### 11.5 Limit

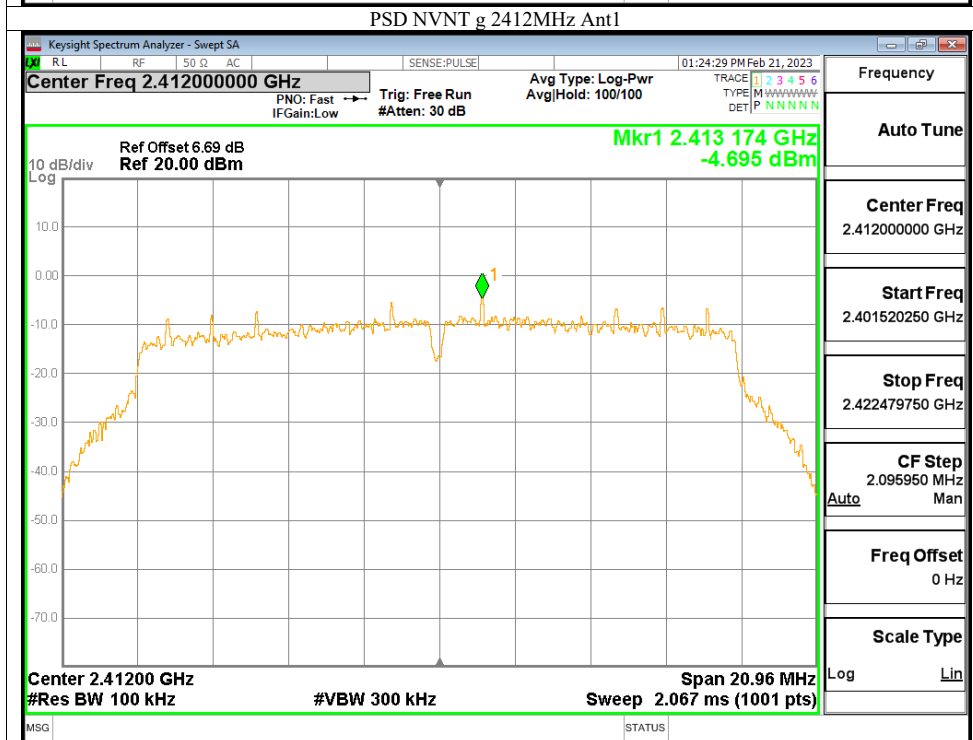
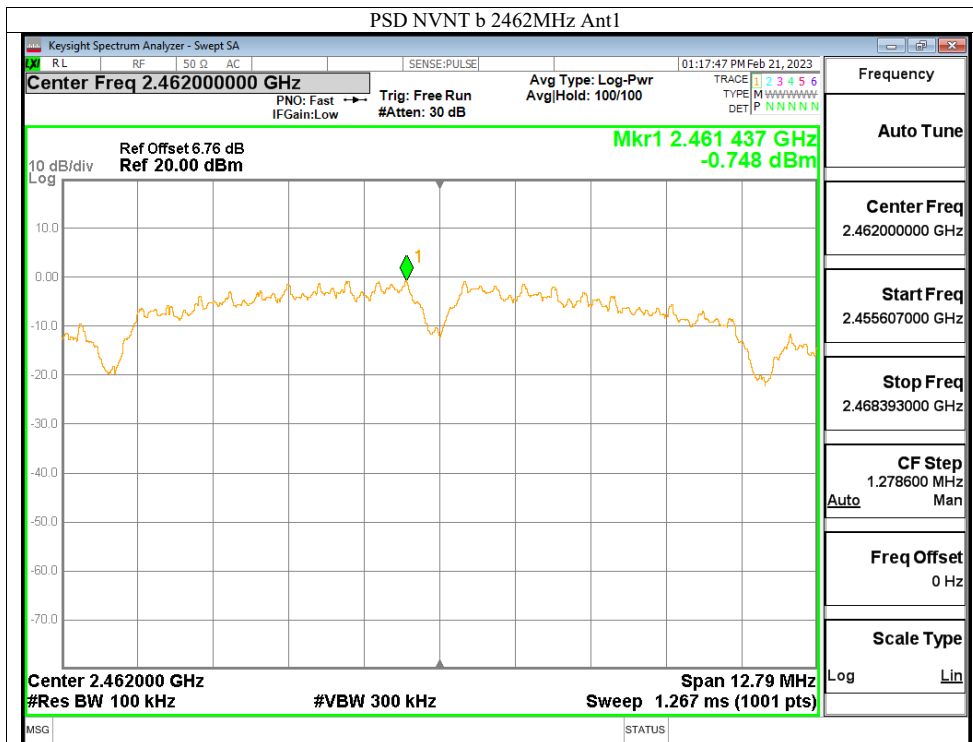
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3 kHz bandwidth.

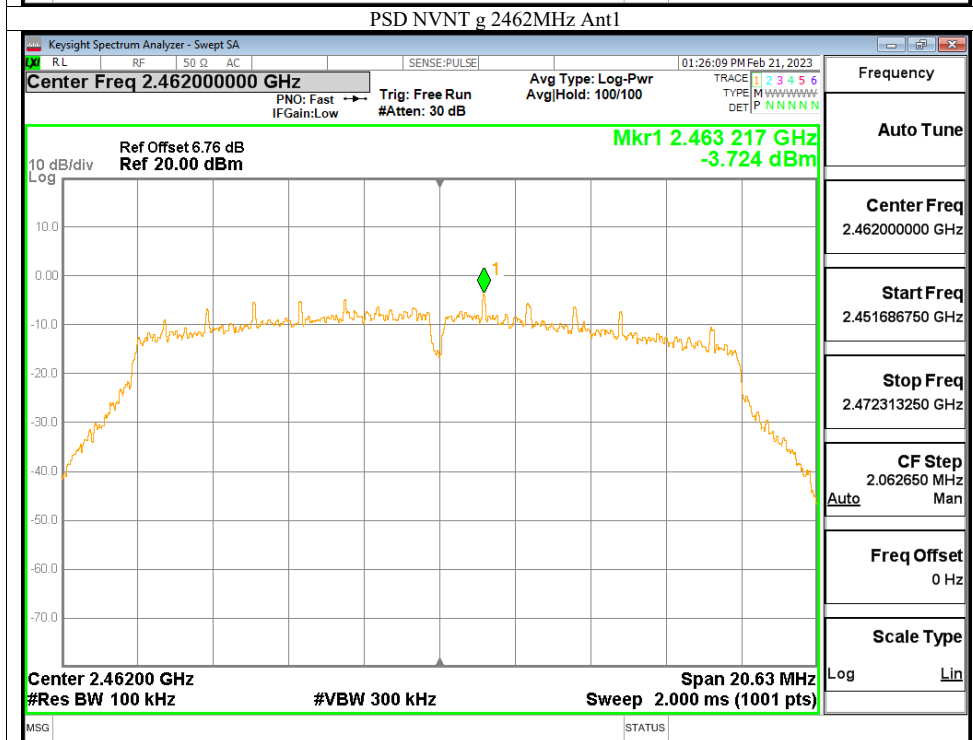
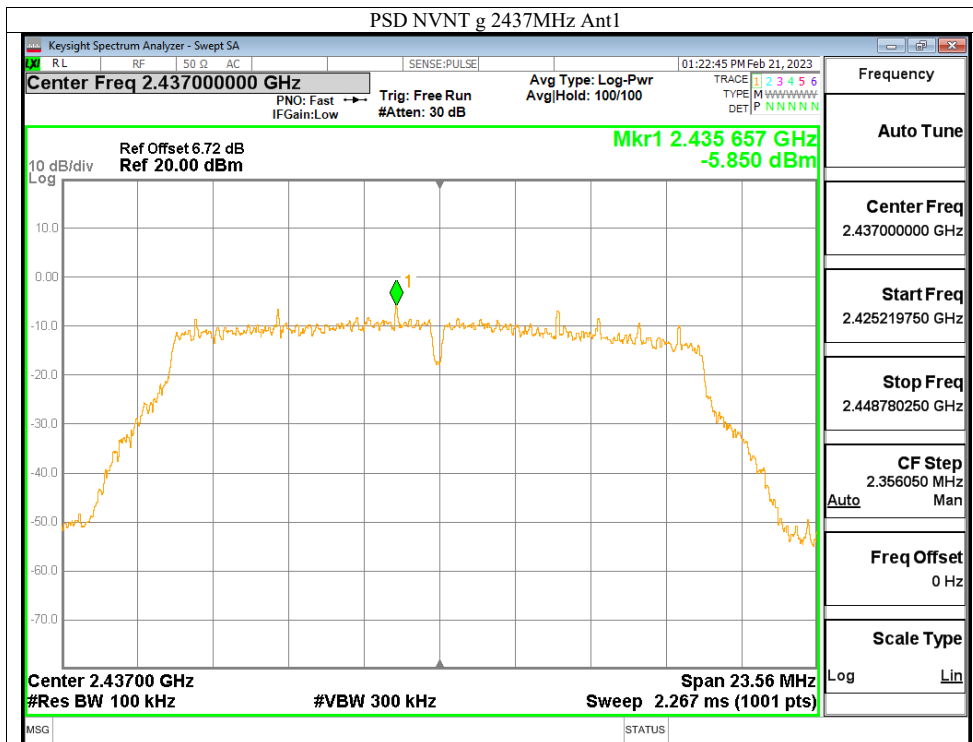
**11.6 Test Result**

Spectrum Detector: PK                      Test Date : 2023-03-16  
 Test By: Big                                  Temperature : 26°C  
 Test Result: PASS                          Humidity : 60%

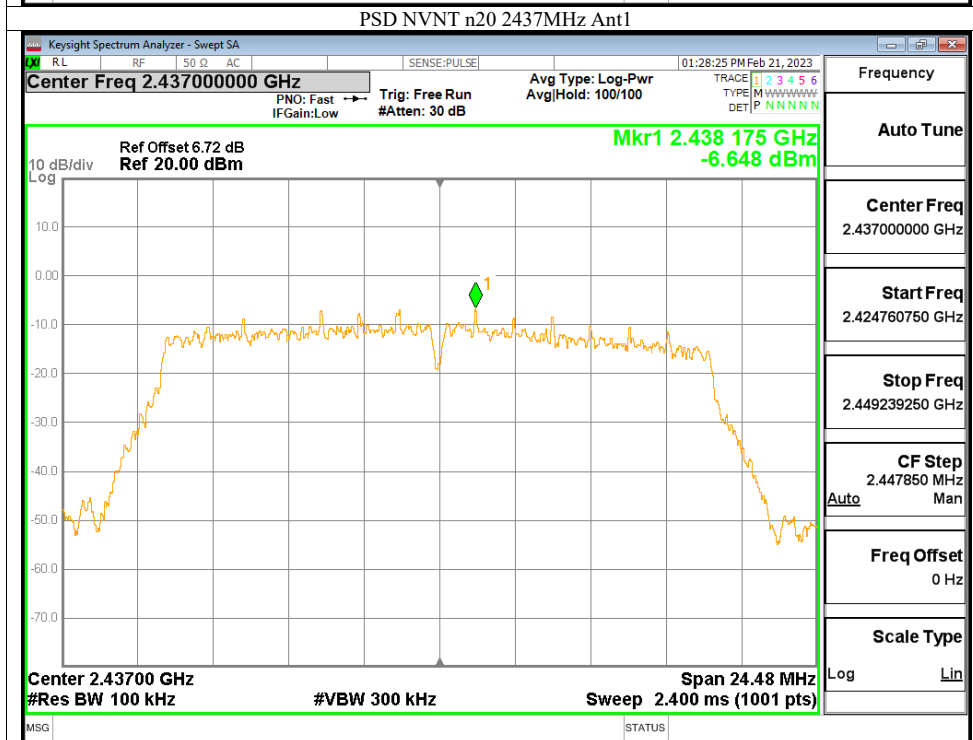
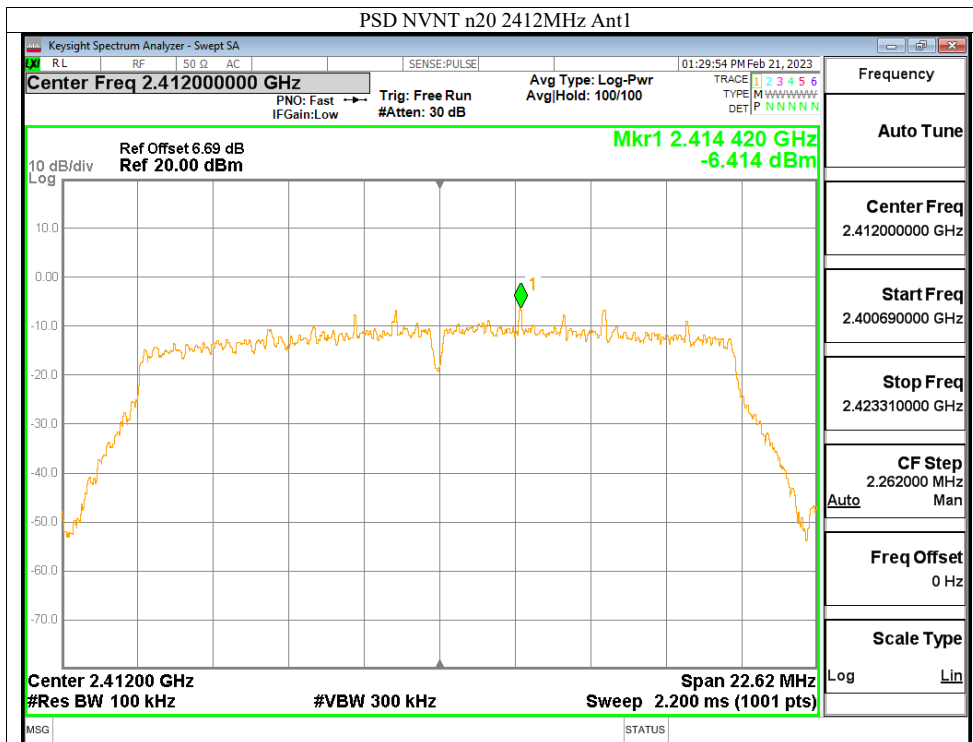
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-0.28	0	-0.28	8	Pass
b	2437	Ant1	-0.28	0	-0.28	8	Pass
b	2462	Ant1	-0.75	0	-0.75	8	Pass
g	2412	Ant1	-4.7	0	-4.7	8	Pass
g	2437	Ant1	-5.85	0	-5.85	8	Pass
g	2462	Ant1	-3.72	0	-3.72	8	Pass
n20	2412	Ant1	-6.41	0	-6.41	8	Pass
n20	2437	Ant1	-6.65	0	-6.65	8	Pass
n20	2462	Ant1	-5.82	0	-5.82	8	Pass
n40	2422	Ant1	-8.26	0	-8.26	8	Pass
n40	2437	Ant1	-9.5	0	-9.5	8	Pass
n40	2452	Ant1	-9.23	0	-9.23	8	Pass

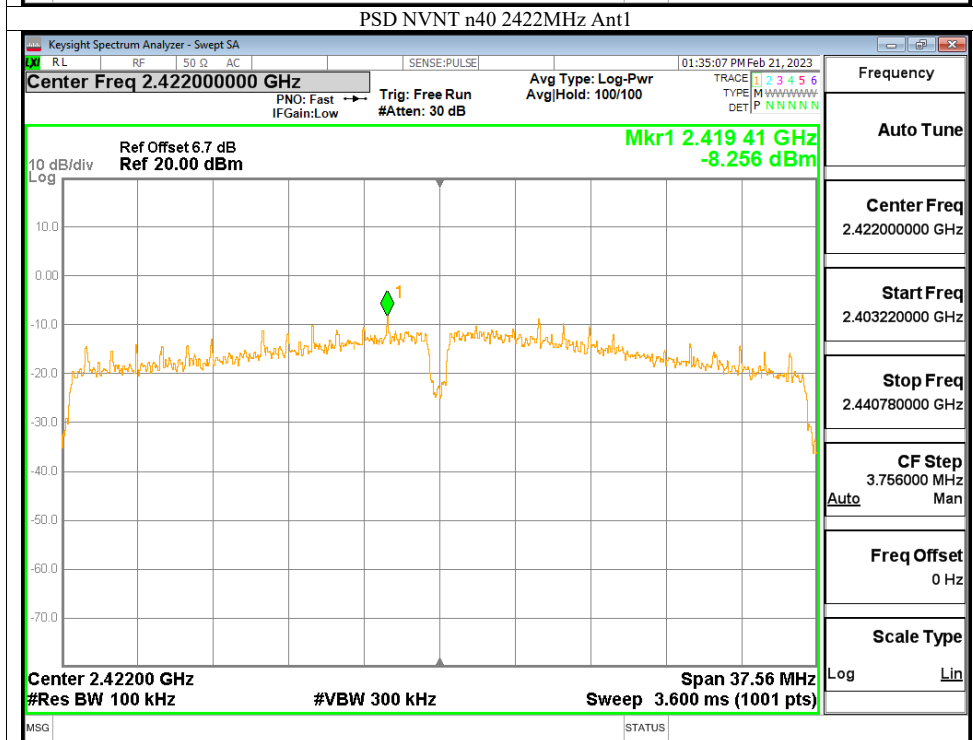
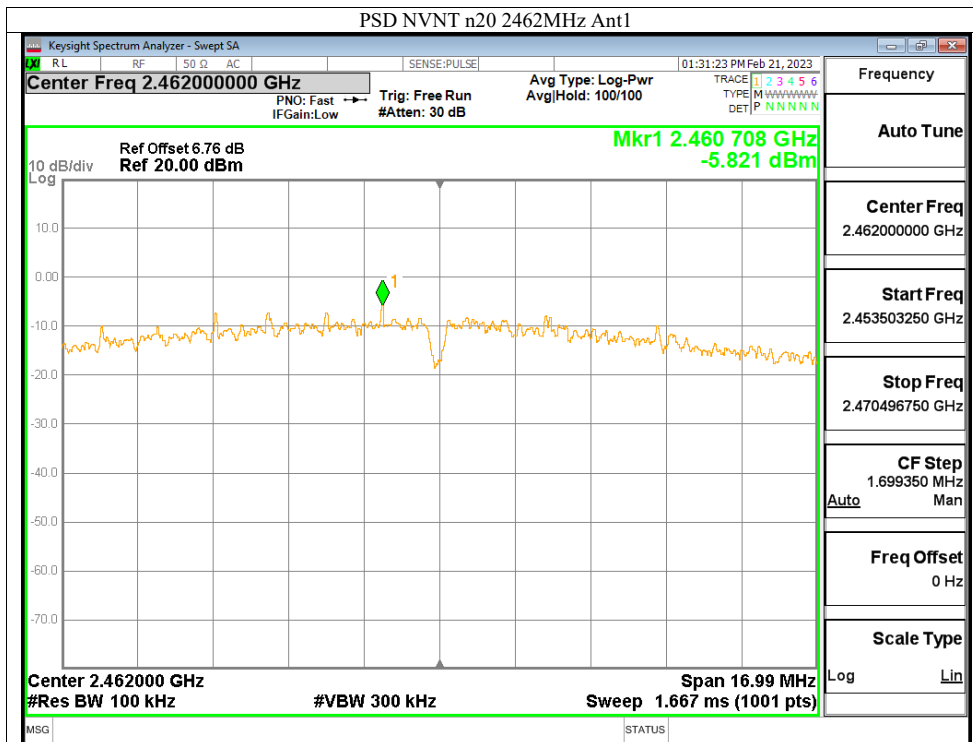


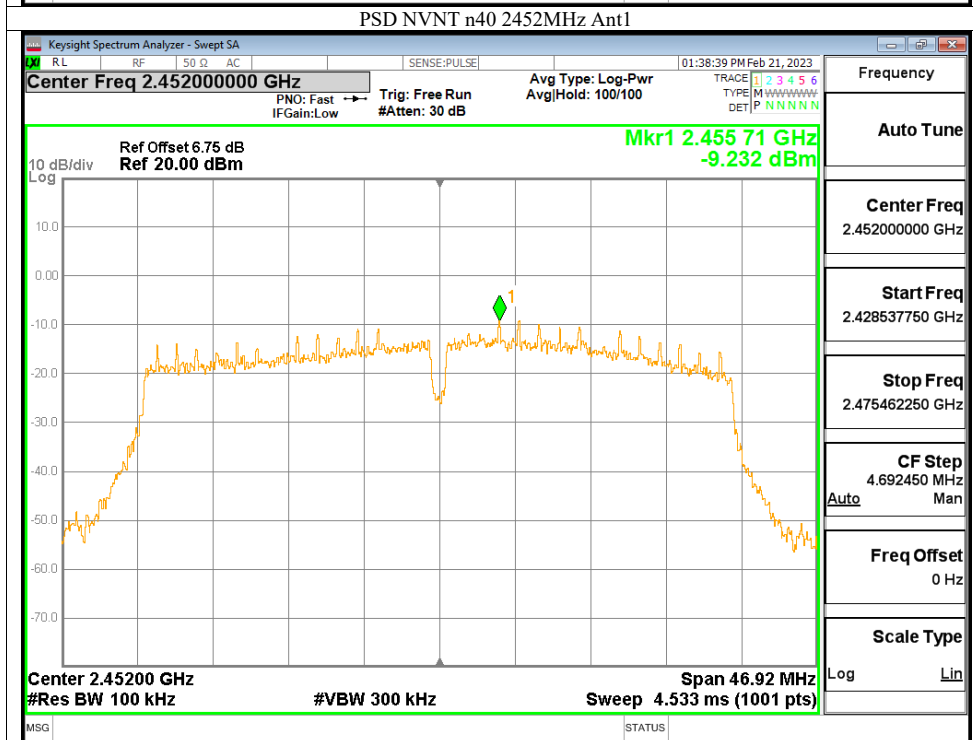
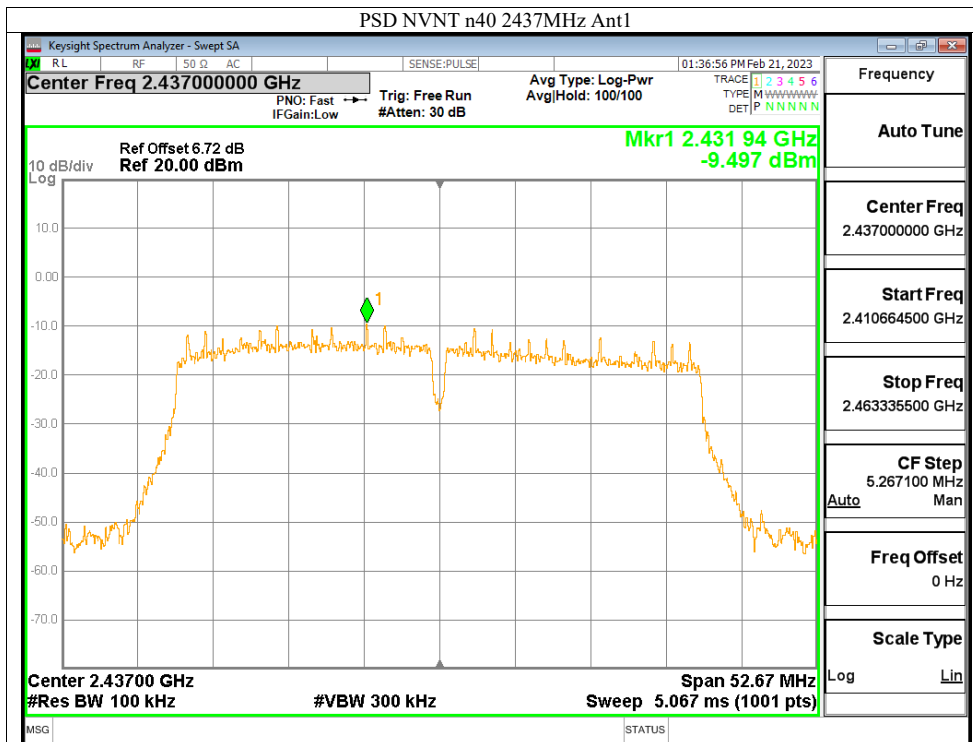












## 12. Antenna Port Emission

### 12.1 Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

### 12.2 Measuring Instruments and Setting

The following table is the setting of spectrum analyzer.

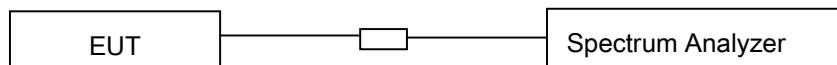
Spectrum analyzer	Setting
Attenuation	Auto
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max hold

### 12.3 Test Procedures

The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02 .

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, Middle, and high channels, the limit was determined by attenuation 20dB of the RF peak power output.

### 12.4 Block Diagram of Test setup



### 12.5 Test Result

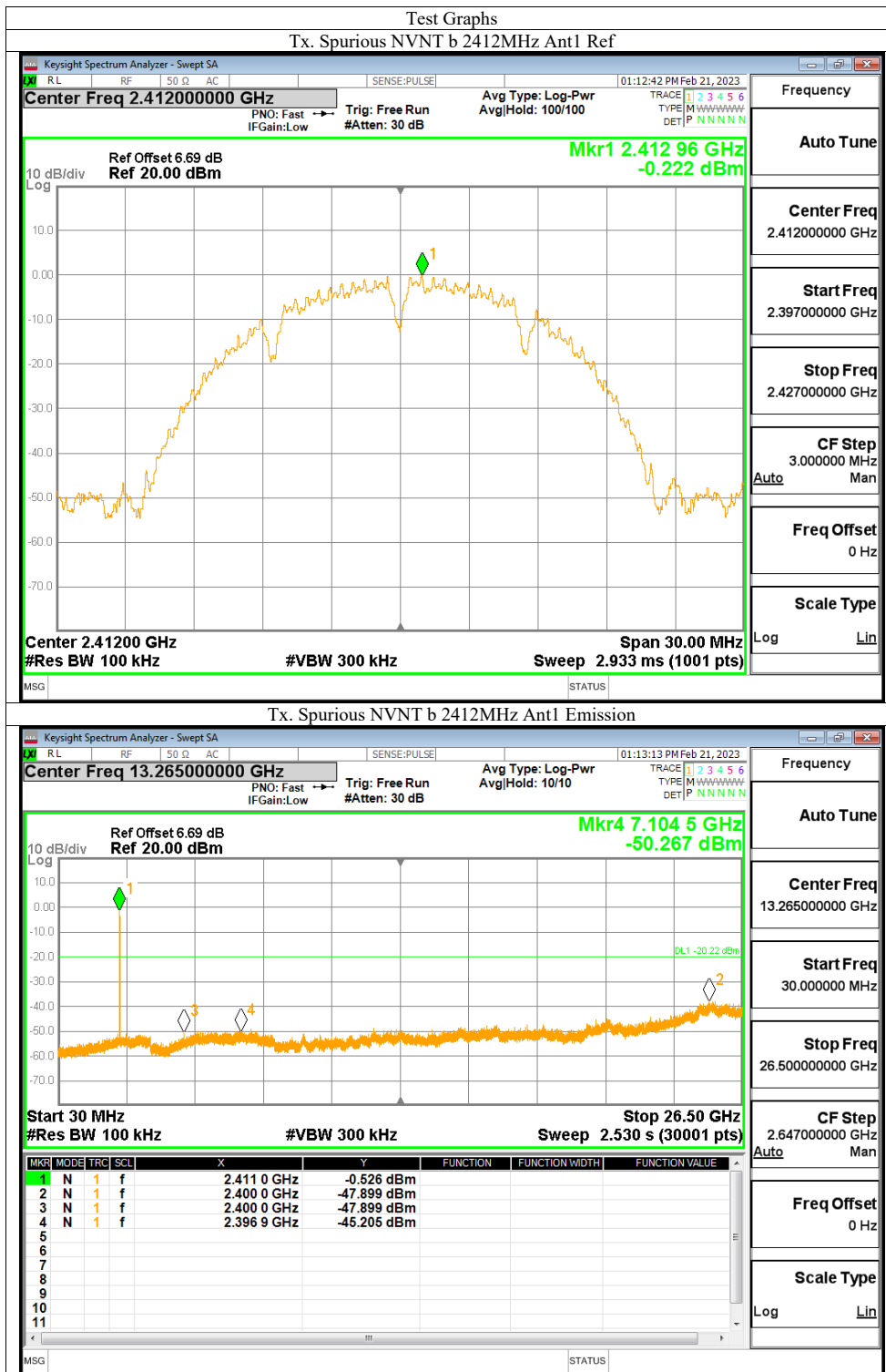
**PASS.**

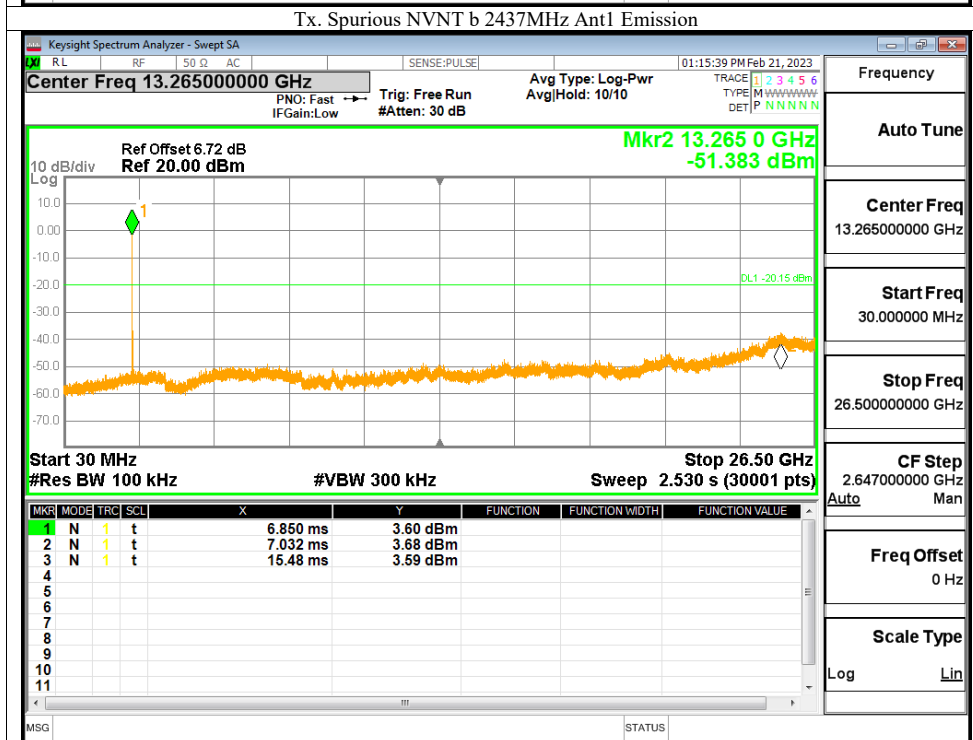
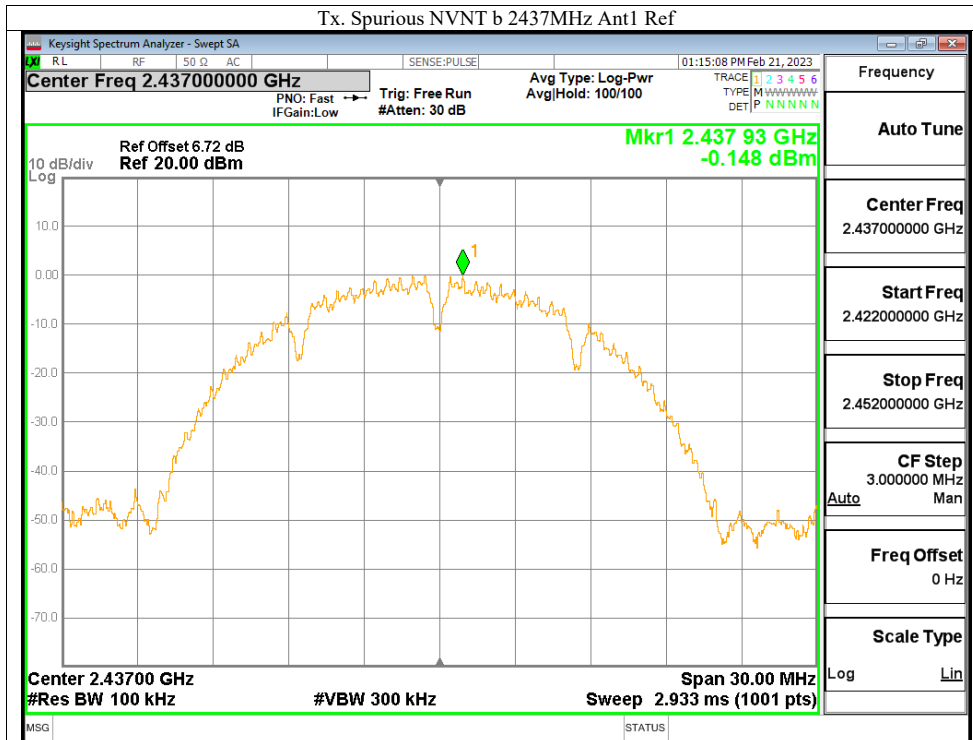
Please refer to following pages.

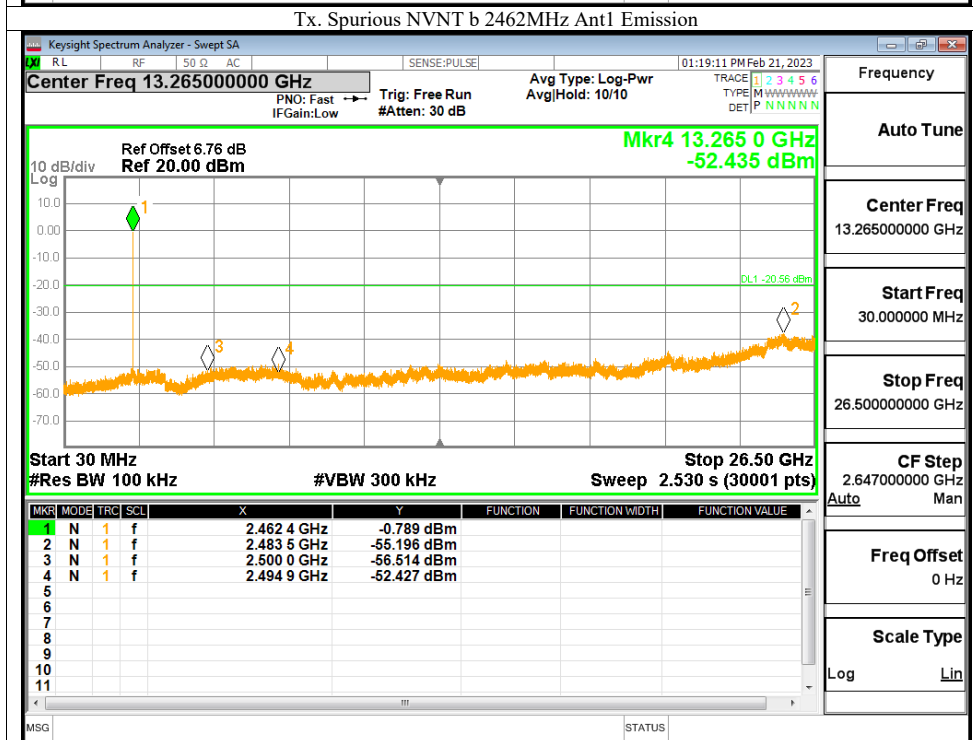
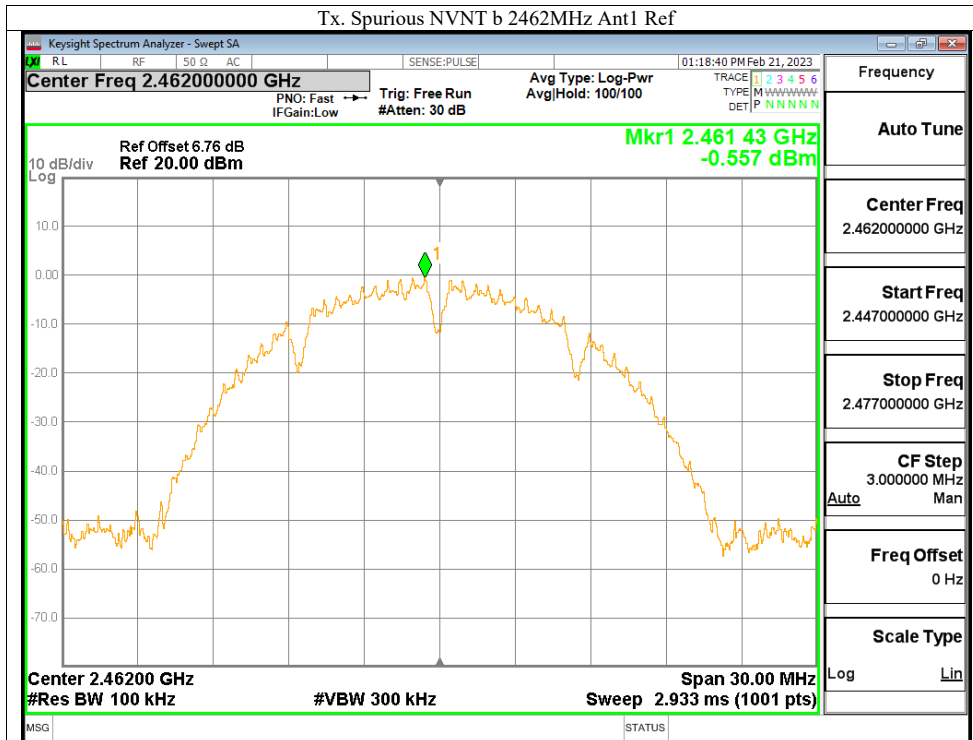
Spectrum Detector: PK  
Test By: Big  
Test Result: PASS

Test Date : 2023-03-16  
Temperature : 26°C  
Humidity : 60%

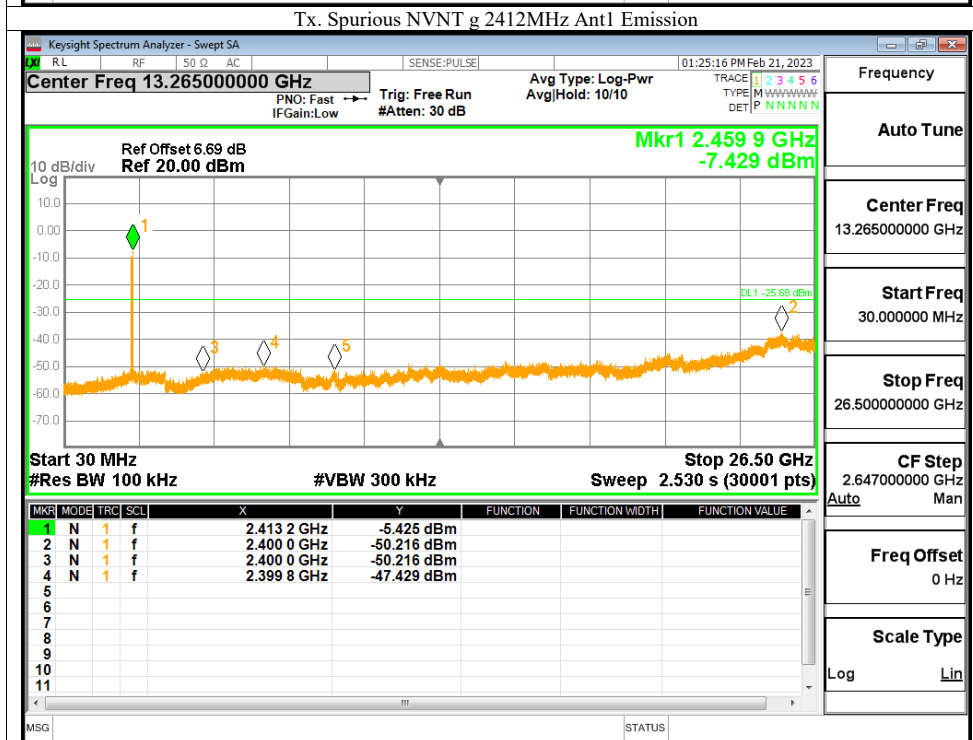
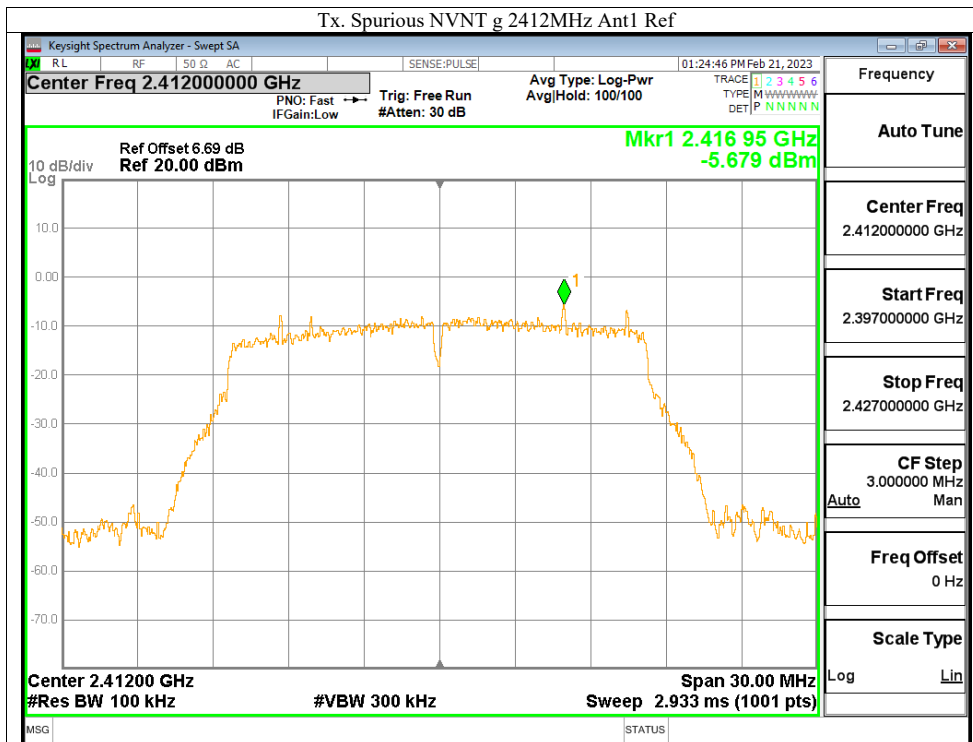
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-37.84	-20	Pass
b	2437	Ant1	-37.38	-20	Pass
b	2462	Ant1	-37.33	-20	Pass
g	2412	Ant1	-31.42	-20	Pass
g	2437	Ant1	-32.16	-20	Pass
g	2462	Ant1	-33.63	-20	Pass
n20	2412	Ant1	-31.13	-20	Pass
n20	2437	Ant1	-31.1	-20	Pass
n20	2462	Ant1	-32.86	-20	Pass
n40	2422	Ant1	-29.05	-20	Pass
n40	2437	Ant1	-29.05	-20	Pass
n40	2452	Ant1	-29.65	-20	Pass

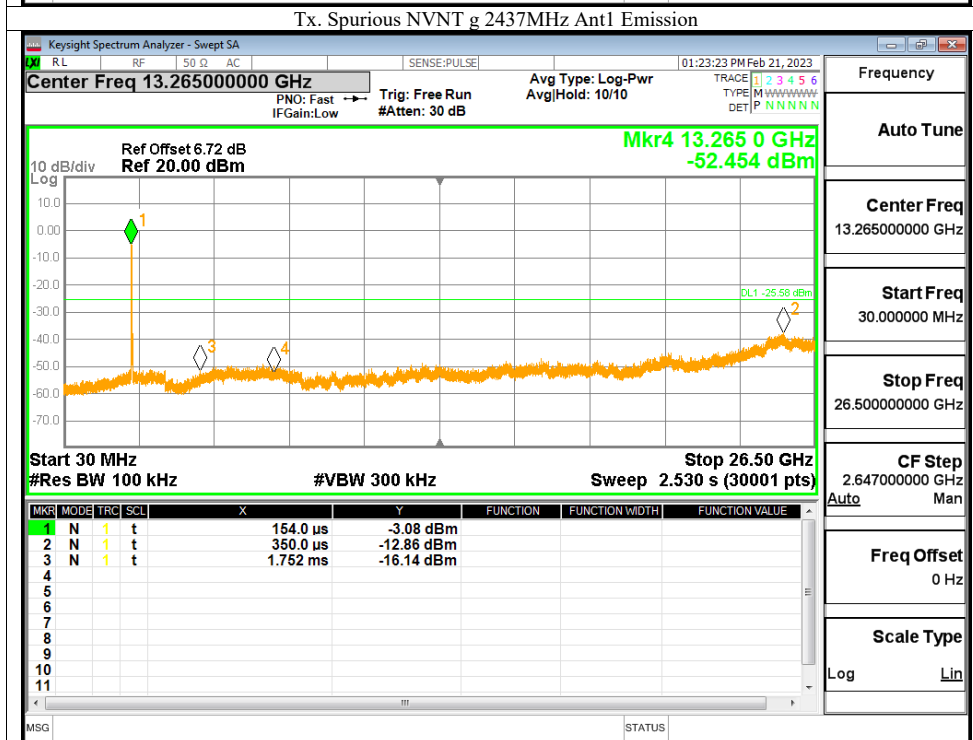
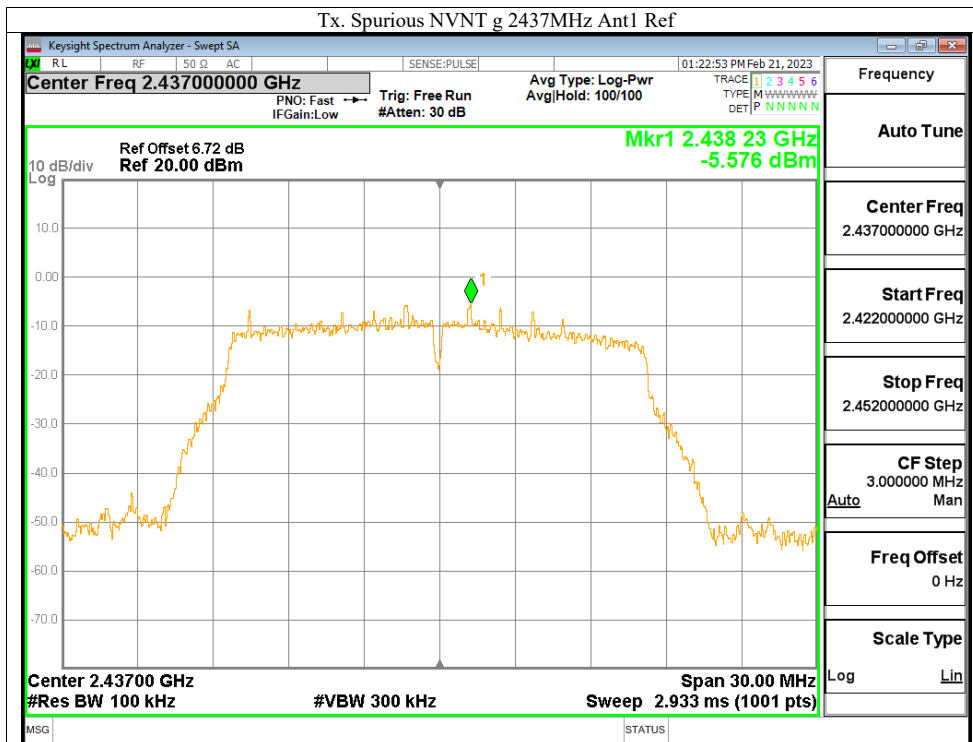


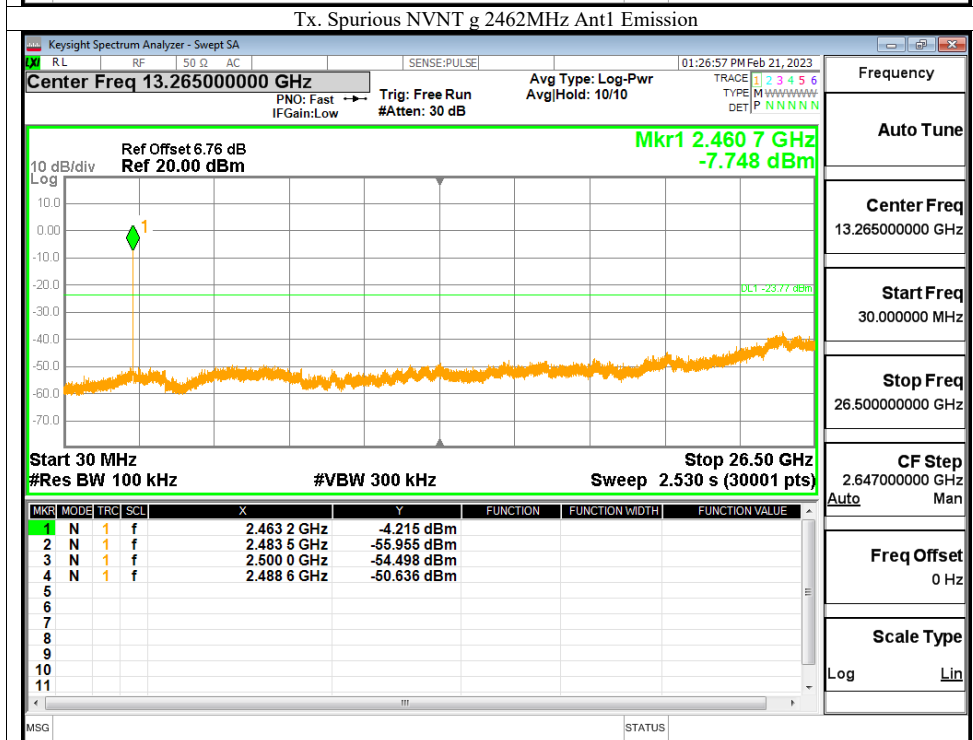
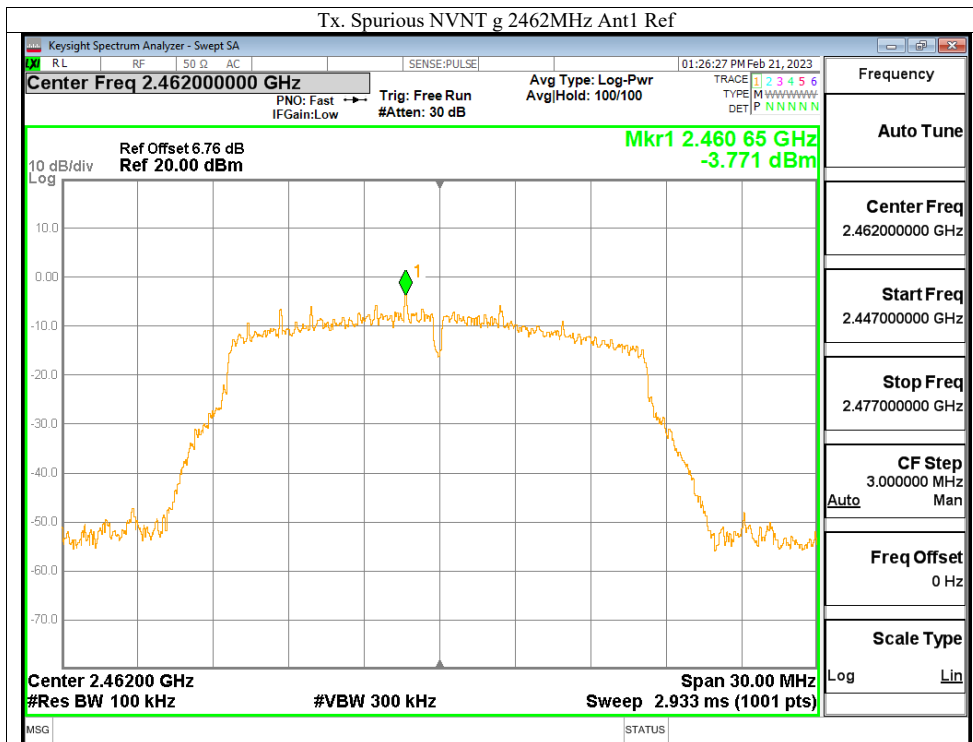


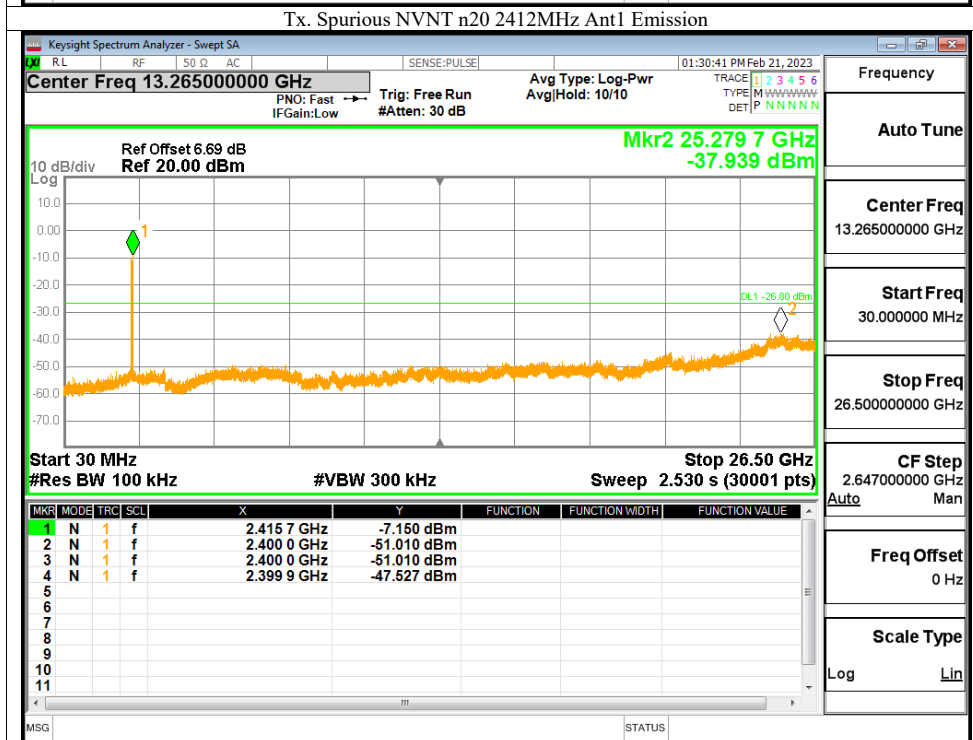
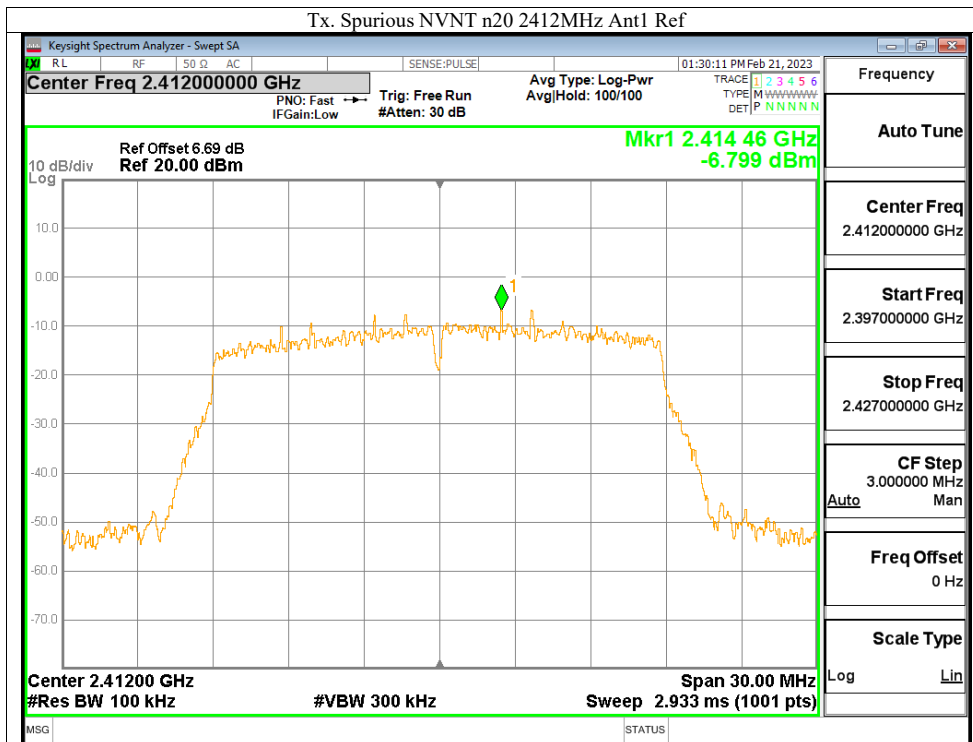


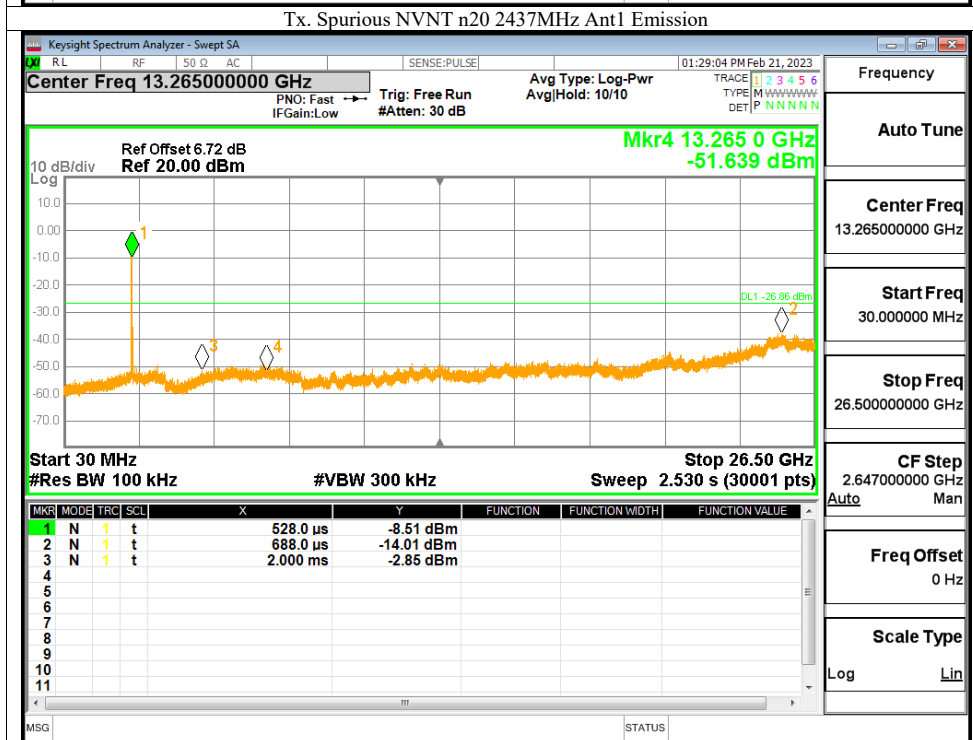
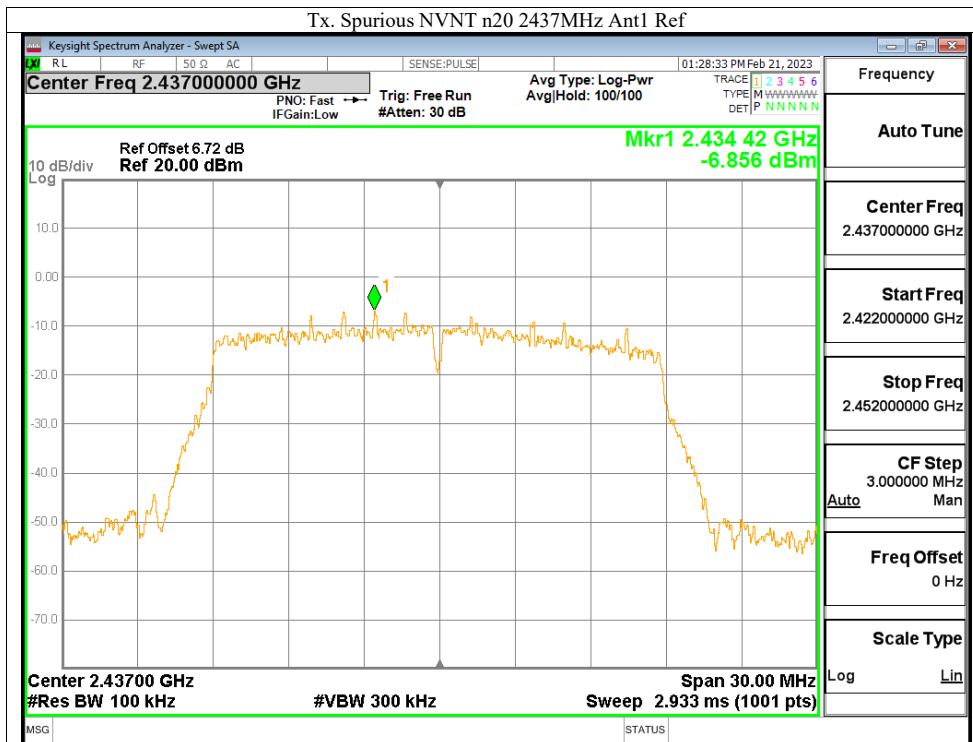


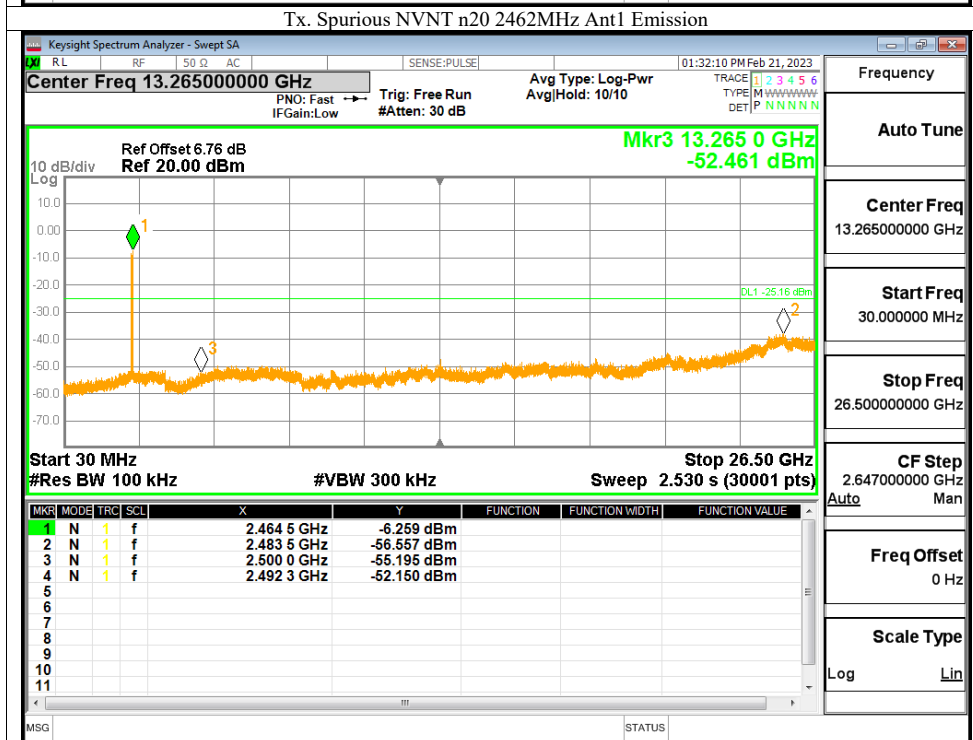
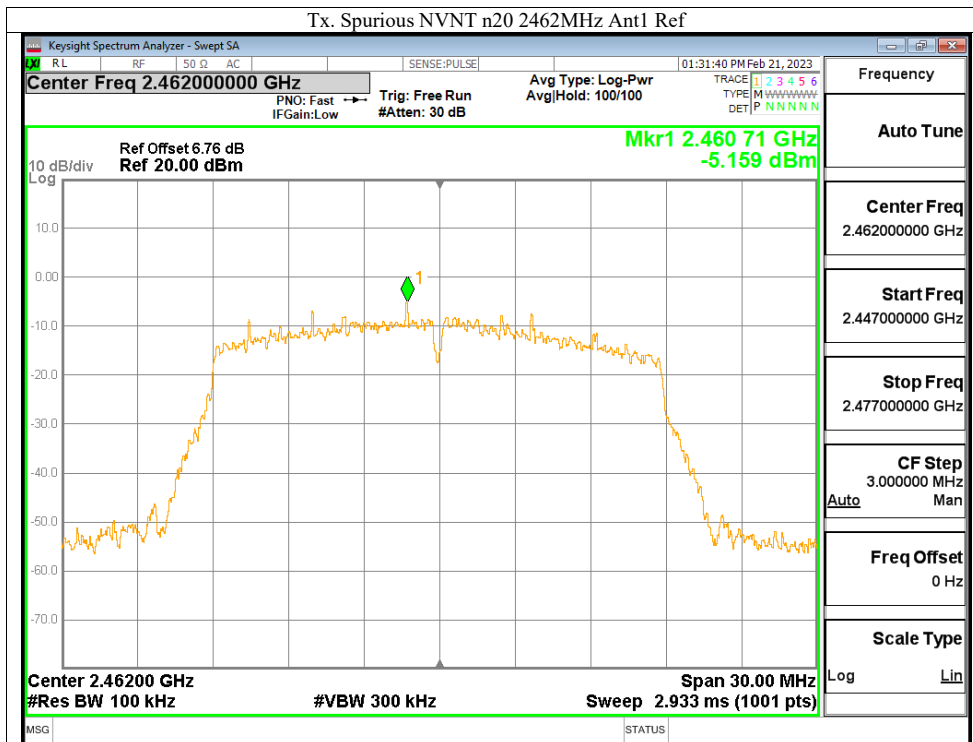


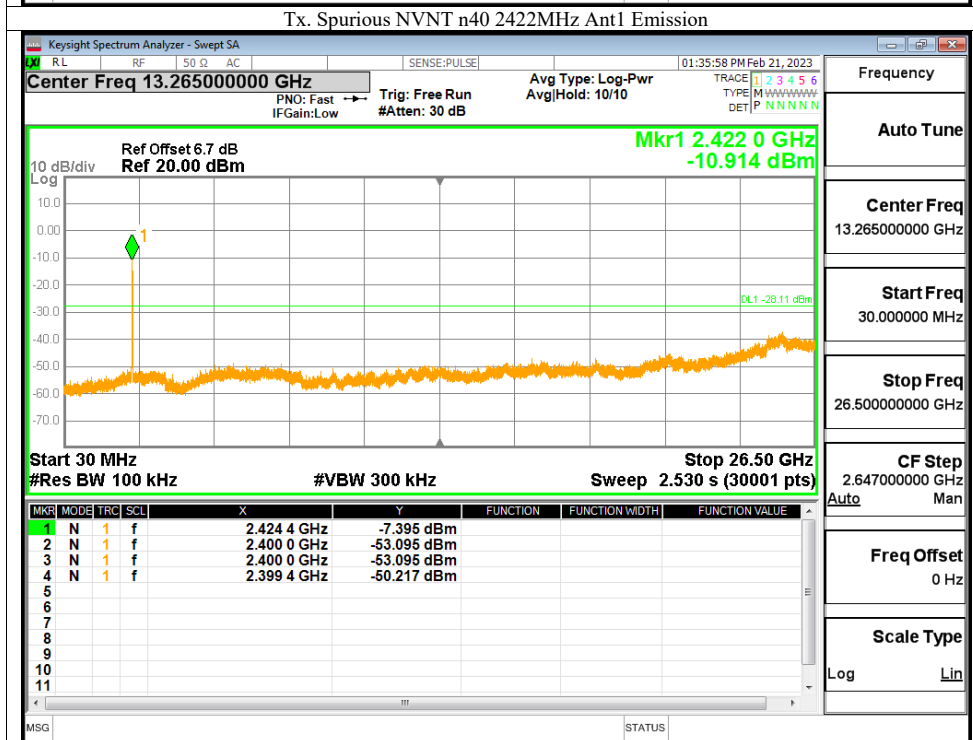
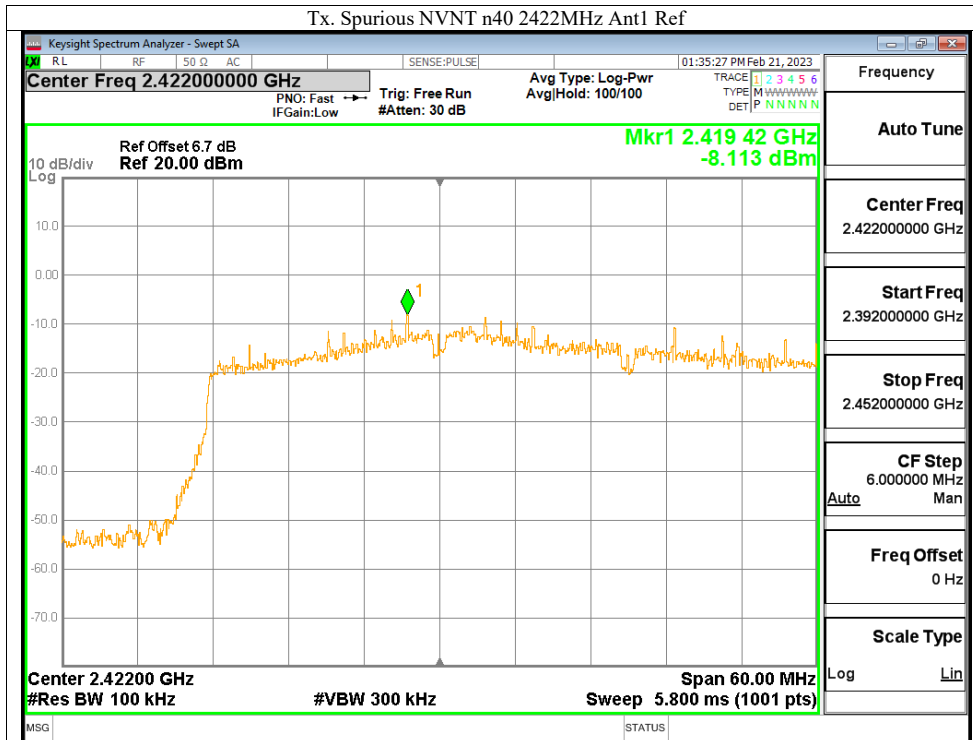


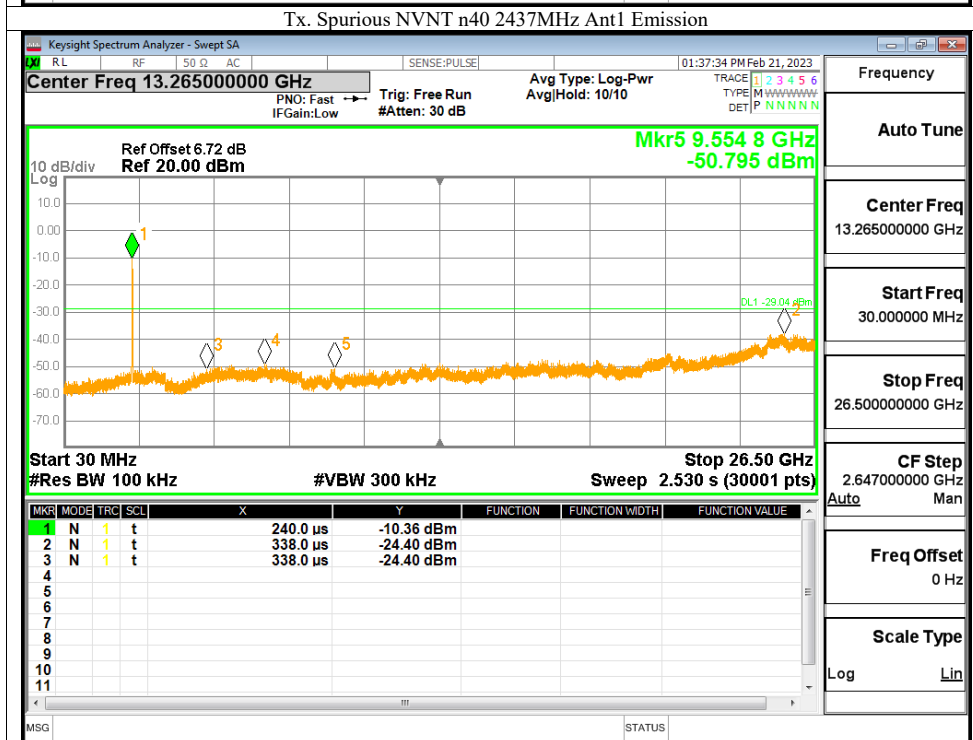
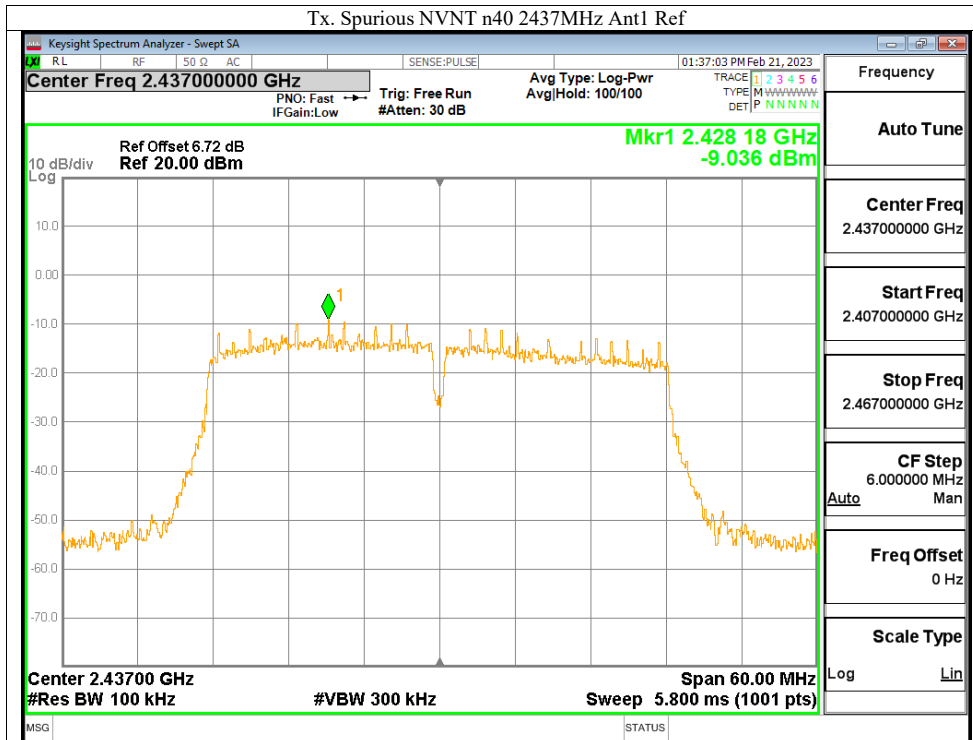




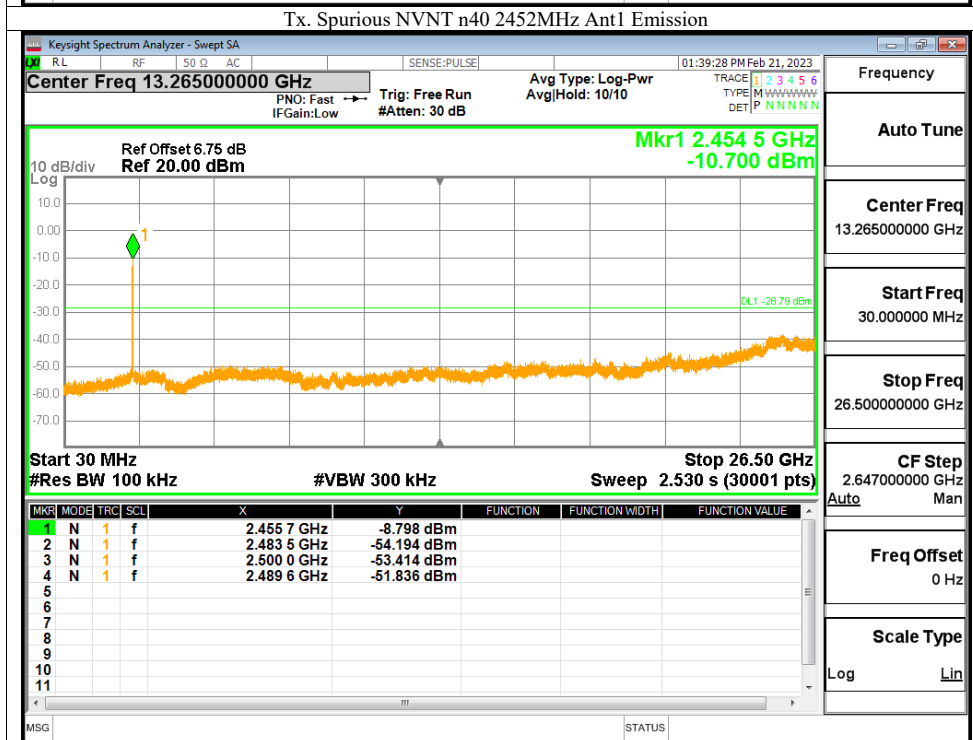
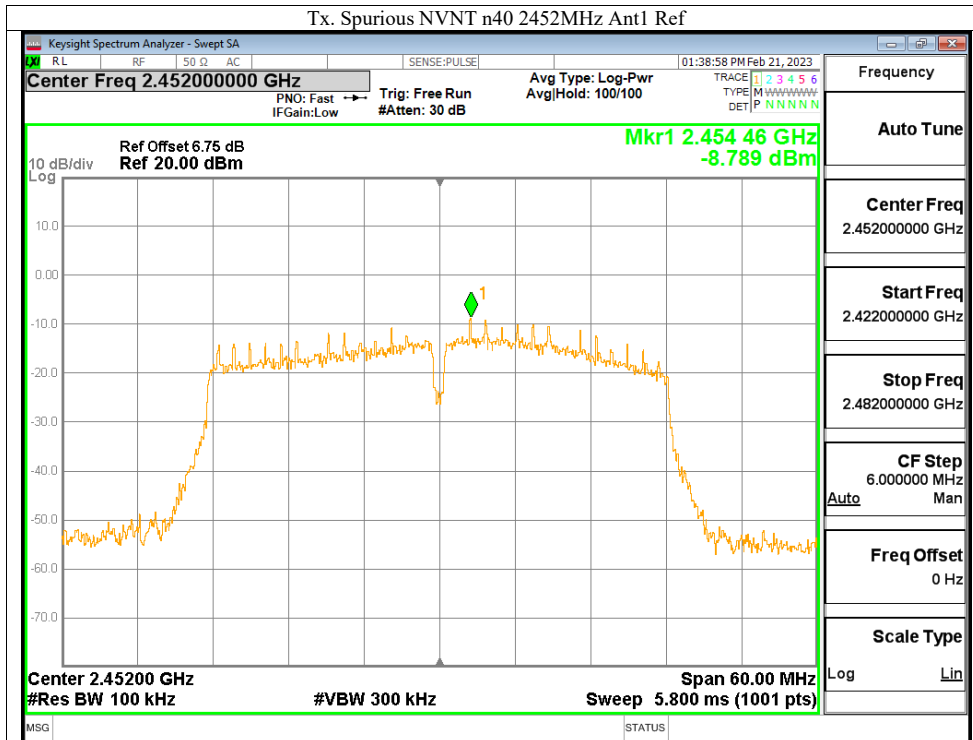












## **13. Antenna Application**

### **13.1 Antenna Requirement**

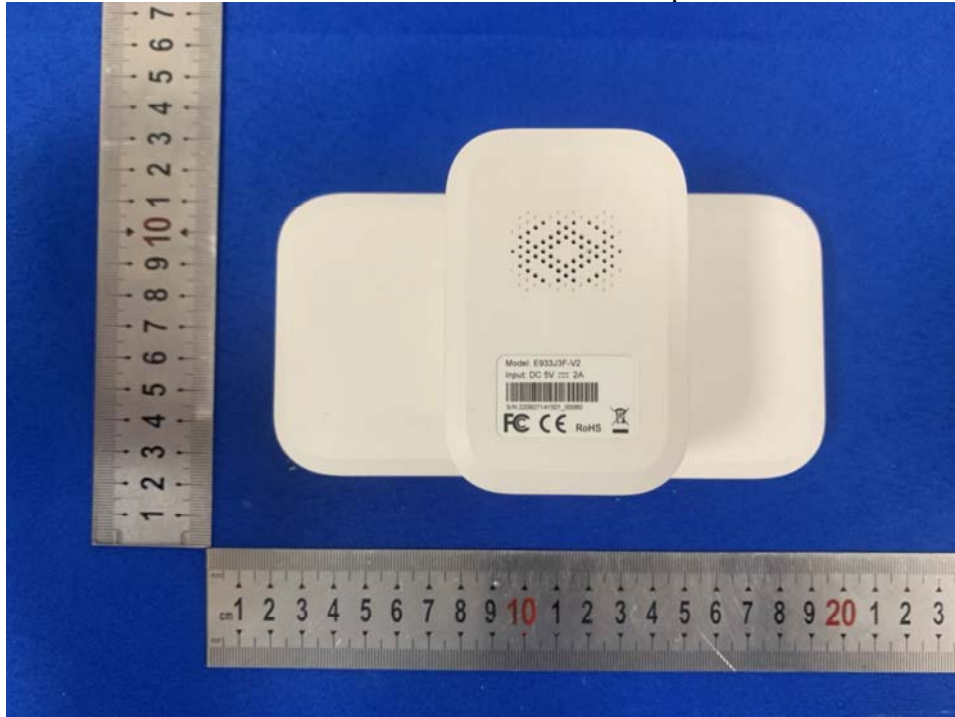
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **13.2 Result**

The EUT'S antenna is an internal PCB antenna. The antenna's gain is 2.86dBi and meets the requirement.

### 14. Photos of EUT

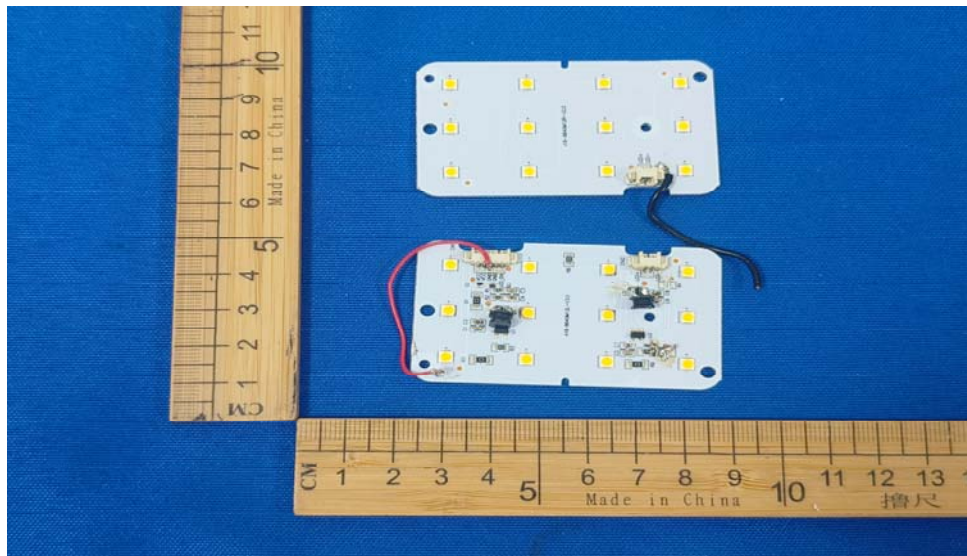




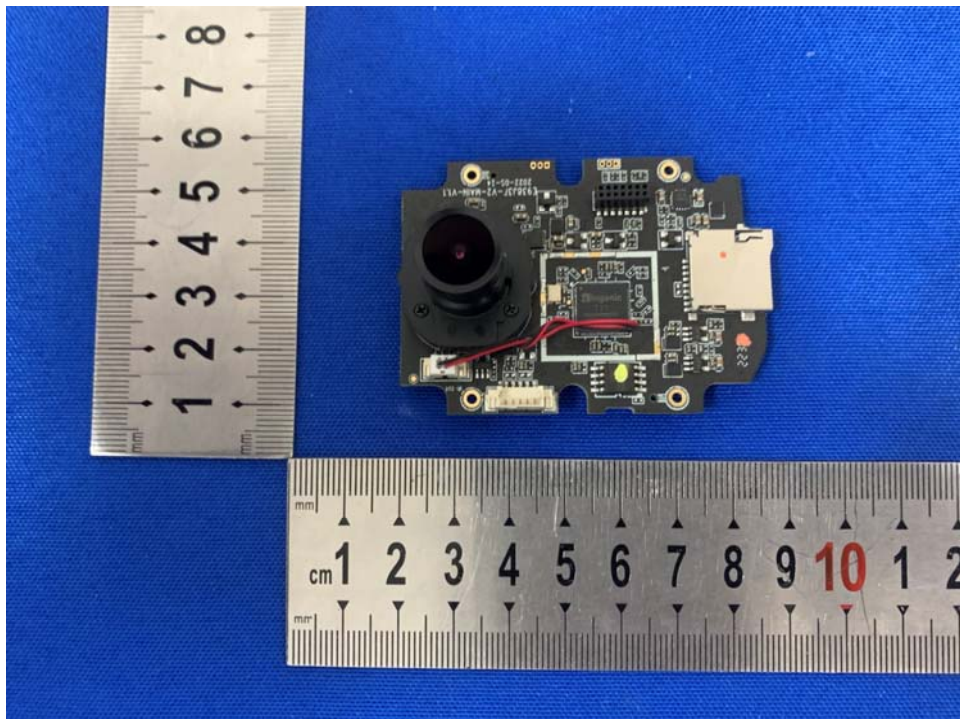
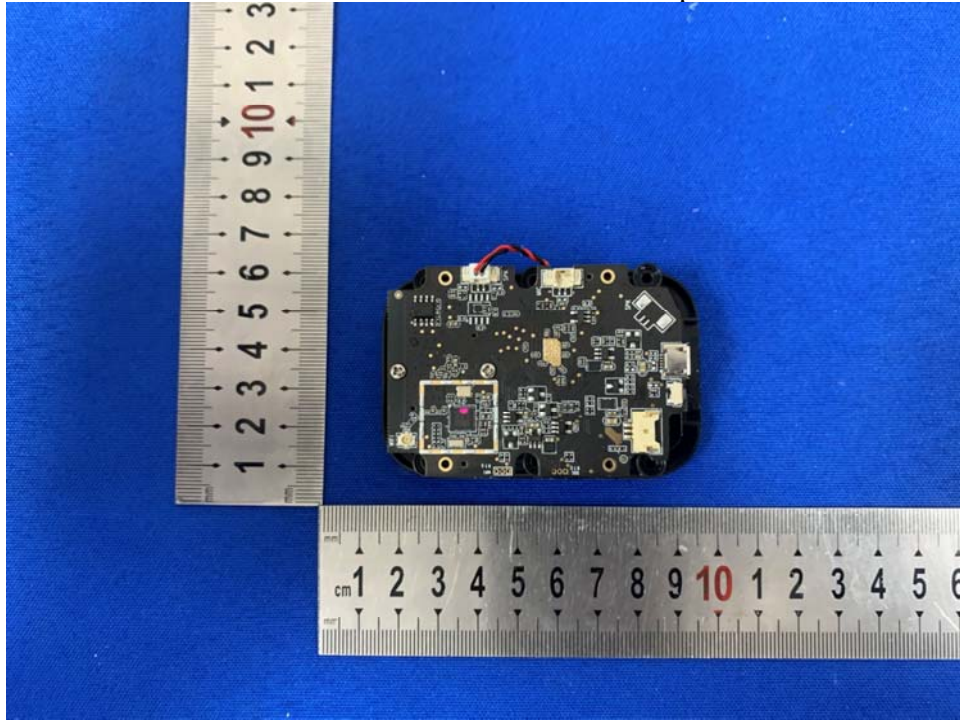




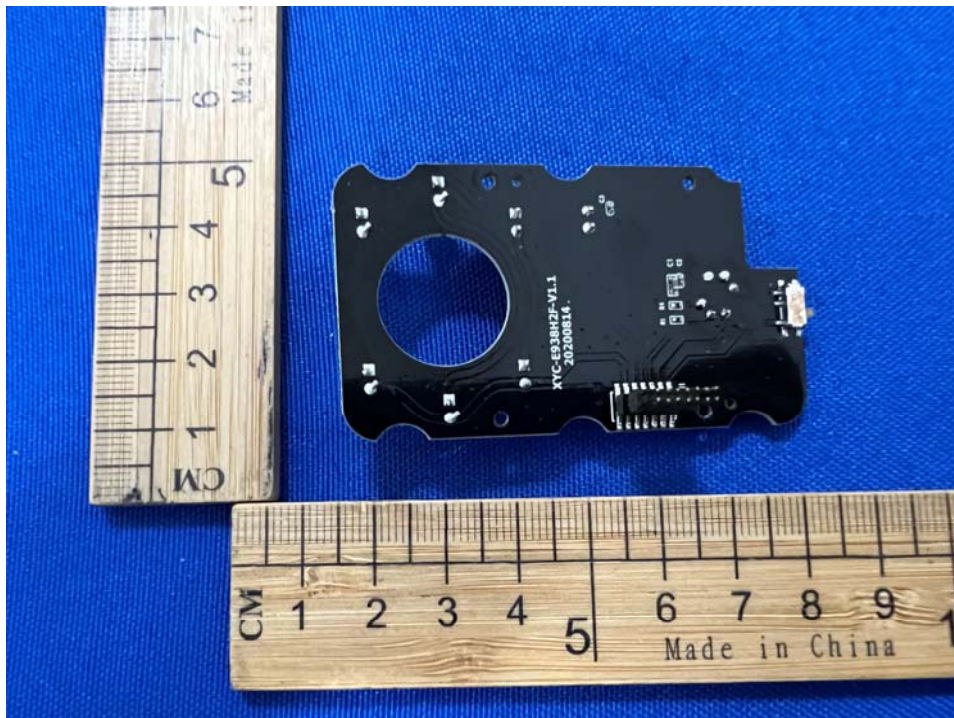
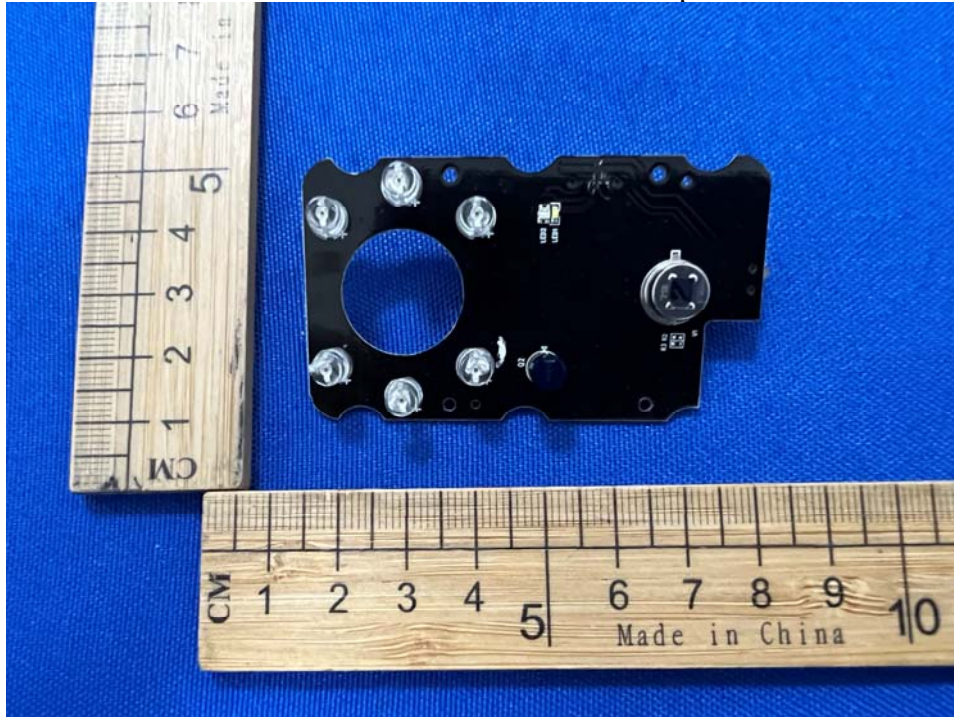




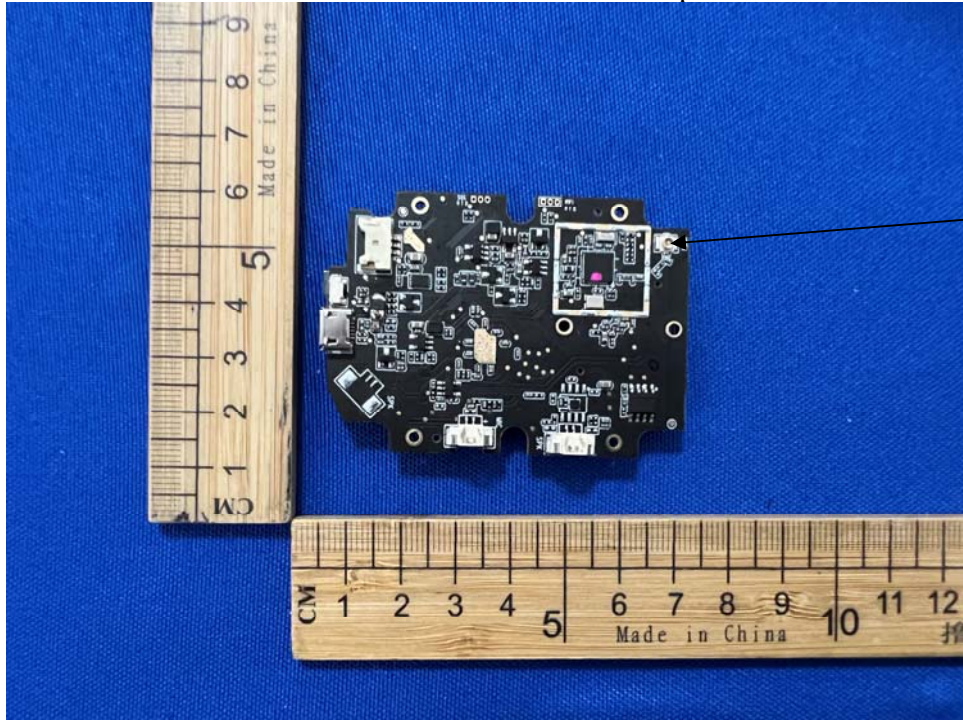




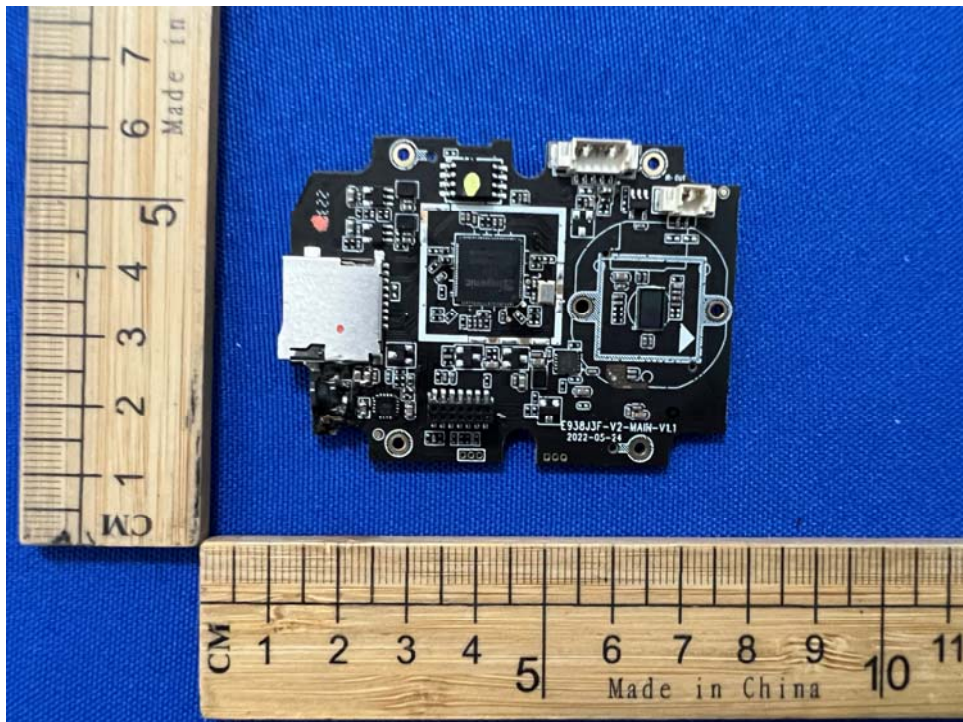


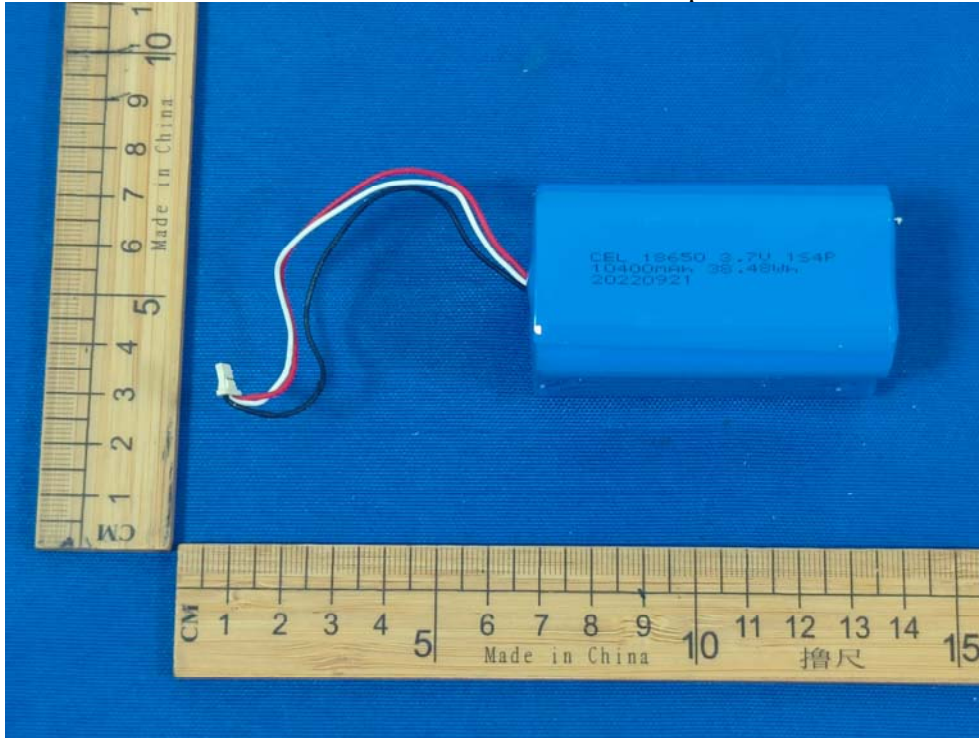






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