TEST REPORT

Reference No.....: WTX25X08224705W002

FCC ID:	2AIWVH101
Applicant:	Udisense Inc. DBA: Nanit
Address:	244 Fifth Avenue, Suite #2702, New York, New York 10001, United States
Manufacturer:	Udisense Inc. DBA: Nanit
Address:	244 Fifth Avenue, Suite #2702, New York, New York 10001, United States
Product Name:	8 inch Tablet Terminal (Nanit Home)
Model No:	H101
Standards:	FCC Part 15E
Date of Receipt sample :	2025-08-21
Date of Test:	2025-08-21 to 2025-09-12
Date of Issue:	2025-09-12
Test Report Form No:	WTX_Part 15EW
Test Result:	Pass
	port refer only to the sample(s) tested, this test report cannot be ut prior written permission of the company. The report would be invalid without nd the signatures of approver. Prepared By:
	Waltek Testing Group (Shenzhen) Co., Ltd.
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Tested by:	Approved by:

TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4 5
1.3 TEST METHODOLOGY	5
1.4 EUT OPERATING DURING TEST	
1.5 TEST FACILITY	
1.6 EUT SETUP AND TEST MODE	6
1.7 TEST EQUIPMENT LIST AND DETAILS	
2. SUMMARY OF TEST RESULTS	8
3.DYNAMIC FREQUENCY SELECTION (DFS)	9
3.1 REQUIREMENT	9
3.2 RADAR TEST WAVEFORMS	
3.3 CALIBRATION OF RADAR WAVEFORM	
3.4 TEST PROCEDURE	
3.5 TEST RESULTS	17
EXHIBIT 1 - TEST SETUP PHOTOGRAPHS	20

Page 2 of 20

Report version

Version No.	Date of issue	Description
Rev.00	2025-09-12	Original
/	1	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT				
Product Name:	8 inch Tablet Terminal (Nanit Home)			
Trade Name:	Nanit			
Model No.:	H101			
Adding Model:	1			
Rated Voltage:	DC 5V from adapter or DC 3.8V from battery			
Battery Capacity: 4000mAh				
Dower Adenter:	GW12-050210CU			
Power Adapter: Input:AC100-240V 50/60Hz 0.4A Output:DC5V2.1A				
The EUT is only support slave without radar Detection function.				
Note: The test data is gathered from a production sample provided by the manufacturer.				

Technical Characteristics of EUT						
Support Standards:	802.11a, 802.11n(HT20/40), 802	802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)				
Frequency Range:	5260-5320MHz, 5500-5700MHz					
Max. RF Output Power:	15.87dBm (Conducted)					
Type of Modulation:	QPSK, 16QAM, 64QAM					
	□Master					
Operation Mode	□Client with radar detection					
	⊠Client without radar detection					
Communication Mode	⊠IP Based(Load Based)	□Frame Based				
Weather Band(5600~5650MHz)	□With 5600~5650MHz	⊠Without 5600~5650MHz				
Type of Antenna:	FPC Antenna					
Antenna Gain:	3.45dBi					
Note The Antenna Gain is provided by the customer and can affect the validity of results.						

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

<u>KDB905462 D02:</u> Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating in the 5250-5350MHz And 5470-5725MHz Bands Incorporating Dynamic Frequency Selection.

KDB905462 D03:U-Nii Client Devices Without Radar Detection Capability.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

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1.3 Test Methodology

All measurements contained in this report were conducted with KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

1.4 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under WIN XP were executed.

1.5 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC - Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is mai ntained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

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Page 5 of 20

1.6 EUT Setup and Test Mode

The EUT in this application is a client device without radar detection capability and indicate the FCC identifier for the Master U-NII Device .During the test, the product works on the designated test channel and transmits normal data to the master.

Messages for communication between Master and Client Devices: 0101010101.......(Continuous cycle.) The type of system architecture for the device in this application is IP based, more detailed description as follows:

Test Mode List				
Test Mode	Description	Remark		
TM1	802.11ac-VHT(80)	5290MHz		
TM2	802.11ac-VHT(80)	5530MHz		

EUT Cable List and Details				
Cable Description	Length (m)	Shielded/Unshielded	With / Without Core	
Type-C Cable	1.75	Unshielded	Without Ferrite	

Special Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
1	1	1	1		

Auxiliary Equipment List and Details				
Description Manufacturer Model Serial Number				
Notebook	Lenovo	TianYi 100-14IBD	PF0F4ABV	

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1041A	Communication	Rohde &	CMW500	148650	2025-02-23	2026-02-22
1001	Tester	Schwarz	CIVIVV500	140000	2025-02-25	2020-02-22
WTXE1022A	GSM Tester	Rohde &	CMUDOO	111102	2025-02-23	2026 02 22
1002	GSW Tester	Schwarz	CMU200	114403	2025-02-23	2026-02-22
WTXE1005A	Spectrum	Agilont	N9020A	US471401	2025-02-23	2026-02-22
1005	Analyzer	Agilent	N9020A	02	2025-02-23	2020-02-22
WTXE1084A	Spectrum	A mile mt	NOOGOA	MY543205	2025-02-23	2026 02 22
1001	Analyzer	Agilent N9020A	48	2025-02-23	2026-02-22	
WTXE1044A	Signal	A -::1 - :-4	007504	3610A014	2005 00 00	0000 00 00
1001	Generator	Agilent	83752A	53	2025-02-23	2026-02-22
WTXE1045A	Vector Signal	A -::1 - :4	NEAGOA	MY470702	2025 22 22	0000 00 00
1001	Generator	Agilent	N5182A	02	2025-02-23	2026-02-22
WTXE1018A	Danie Divida	\\\-\:\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	45004	DM004	0005 00 00	0000 00 00
1001	Power Divider	Weinschel	1506A	PM204	2025-02-23	2026-02-22

Software List					
Description	Manufacturer	Model	Version		
EMI Test Software	Farad	EZ EMO	DA 0244		
(Radiated Emission)*	Farad	EZ-EMC	RA-03A1		

^{*}Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.407(h)	Dynamic Frequency Selection (DFS)	Pass

N/A: Not applicable.

3. Dynamic Frequency Selection (DFS)

3.1 Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

	Operational Mode				
Requirement	Master	Client Without	Client With Radar		
	Master	Radar Detection	Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement	Master Device or Client with	Client Without Radar		
	Radar Detection	Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with multiple bandwidth	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20MHz channels and the channel center frequency.

LIMIT

1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64dBm
EIRP < 200 milliwatt and	00 ID
power spectral density < 10 dBm/MHz	-62dBm
EIRP < 200 milliwatt that do not meet the power	
spectral density requirement	-64dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

·	·	
Paramenter	Value	
Non-occupancy period	Minimum 30 minutes	
Channel Availability Check Time	60 seconds	
Channel Move Time	10 seconds See Note 1.	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	

- Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
- Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
- Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

3.2 RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \frac{1}{360} \right\}. $ $\left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right\} $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
	Ag	gregate (Radar Types 1	-4)	80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\}$$

would be Round up

= Round up $\{17.2\} = 18$.

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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency	Pulse Repetition Frequency	Pulse Repetition Interval
Number	(Pulses Per Second)	(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 - Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

333

Pulse

Width

(µsec)

1

Radar

6

Type

				•••	
	Pulses per	Hopping	Hopping	Minimum	Minimum
PRI (µsec)	Hop	Rate (kHz)	Sequence	Percentage of	Number of
	Пор	Nate (KI IZ)	l enath	Successful	Trials

0.333

Length

300

Successful 70%

30

Table 7 – Frequency Hopping Radar Test Waveform

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

9

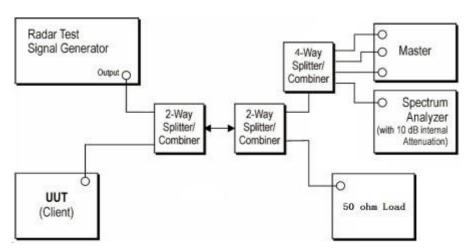
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250-5724MHz.Next,the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

3.3 Calibration of Radar Waveform

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was - -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

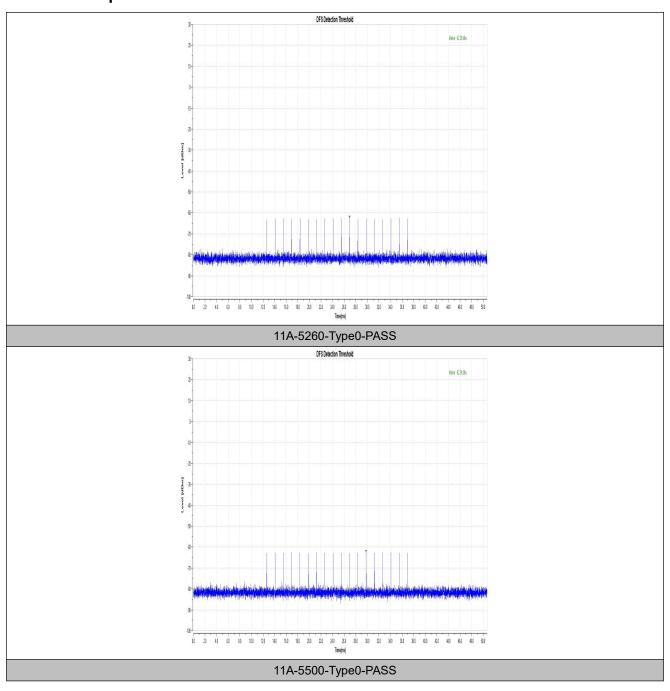
Conducted Calibration Setup



Test Result

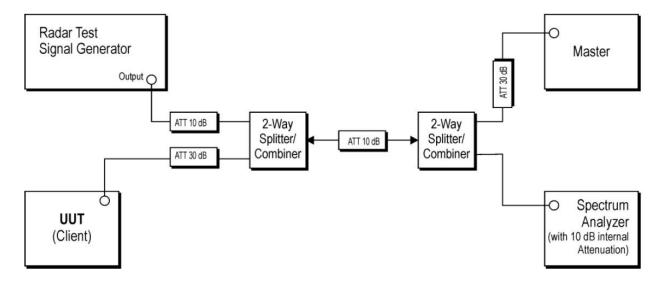
TestMode	Frequency[dbm]	Radar Type	Result	Limit[dbm]	Verdict
11A	5260	Type0	-62.38	-62.00	PASS
11A	5500	Type0	-62.39	-62.00	PASS

Test Graphs



TEST CONFIGURATION

Setup for Client with injection at the Master



3.4 TEST PROCEDURE

- 1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
- 3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types Waltek Testing Group (Shenzhen) Co., Ltd.

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start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type

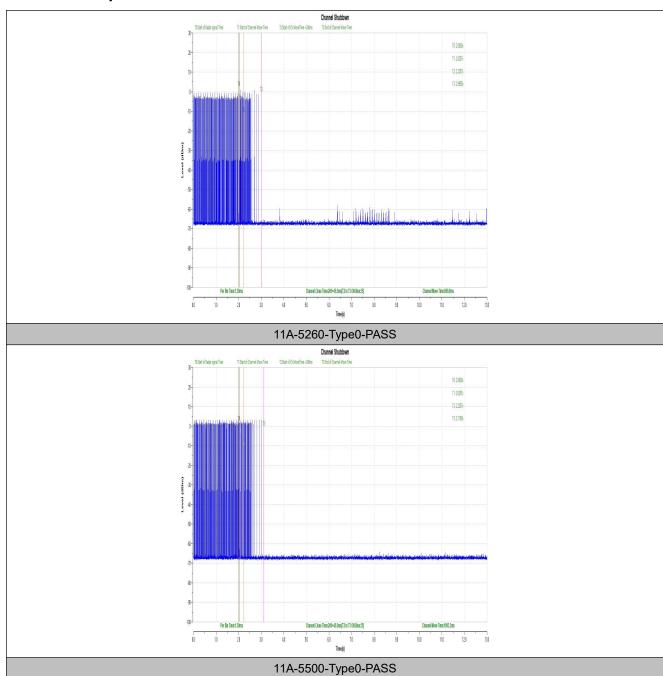
- 7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

3.5 TEST RESULTS

Test Result

Test Mode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5260	200+45.5	200+60	969.8	10000	PASS
11A	5500	200+45.5	200+60	1093.3	10000	PASS

Test Graphs



Non-occupancy Observer

Test Result

Test Mode	Frequency[MHz]	Result	Limit[s]	Verdict
11A	5260	see test graph	≥1800	PASS
11A	5500	see test graph	≥1800	PASS

Test Graphs

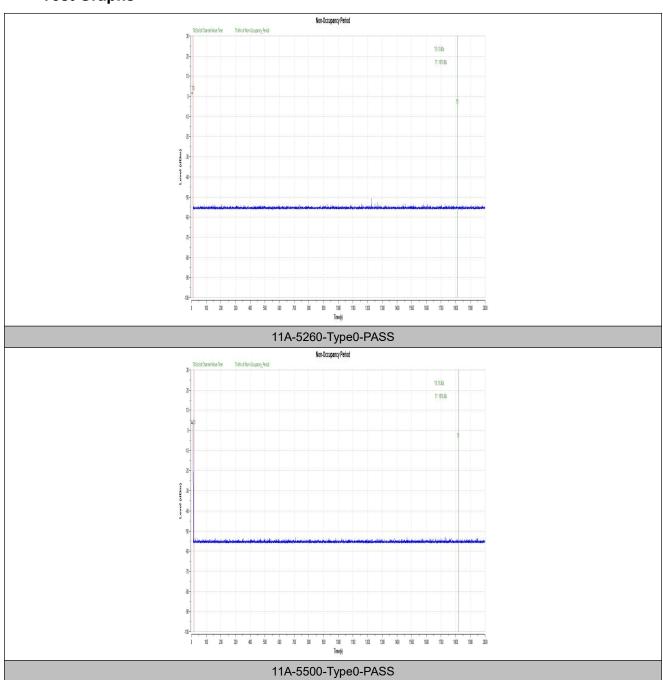


EXHIBIT 1 - TEST SETUP PHOTOGRAPHS

Please refer to "ANNEX"

***** END OF REPORT *****