

# FCC Radio Test Report

## FCC ID: 2AGZE-NXST22

### Original Grant

**Report No.** : TB-FCC146380  
**Applicant** : Nexersys Corporation  
**Equipment Under Test (EUT)**  
**EUT Name** : Nexersys Console  
**Model No.** : NXST22  
**Series Model No.** : Please see the page of 4  
**Brand Name** : Nexersys  
**Receipt Date** : 2015-12-15  
**Test Date** : 2015-12-16 to 2015-12-30  
**Issue Date** : 2015-12-31  
**Standards** : FCC Part 15, Subpart C (15.247:2015)  
**Test Method** : ANSI C63.10:2013  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** :

**Approved& Authorized** :



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



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## 1. General Information about EUT

### 1.1 Client Information

**Applicant** : Nexersys Corporation  
**Address** : 1021 East 7th Street, Suite 100, Austin, TX 78702, United States  
**Manufacturer** : Nexersys Corporation  
**Address** : 1021 East 7th Street, Suite 100, Austin, TX 78702, United States

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	Nexersys Console
<b>Models No.</b>	:	NXST22, NXST19, WF1851T, WF2151T, NXST-XX(The XX is client number from 01 to 50)
<b>Model Difference</b>	:	They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color.
<b>Product Description</b>	:	Operation Frequency: WIFI 802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz BLE: 2402MHz~2480MHz see note(2)
	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 9 channels see note(3)
	RF Output Power:	802.11b: 18.60dBm 802.11g: 16.68dBm 802.11n (HT20): 15.84dBm 802.11n (HT40): 12.84dBm
	Antenna Gain:	3.12 dBi Embedded Antenna
	Modulation Type:	802.11b:DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
<b>Power Supply</b>	:	DC power supplied by AC/DC Adapter.
<b>Power Rating</b>	:	AC/DC Adapter: Input:100~240V, 50/60Hz , 2A Output:12V, 3.0A
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**Note:**

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC

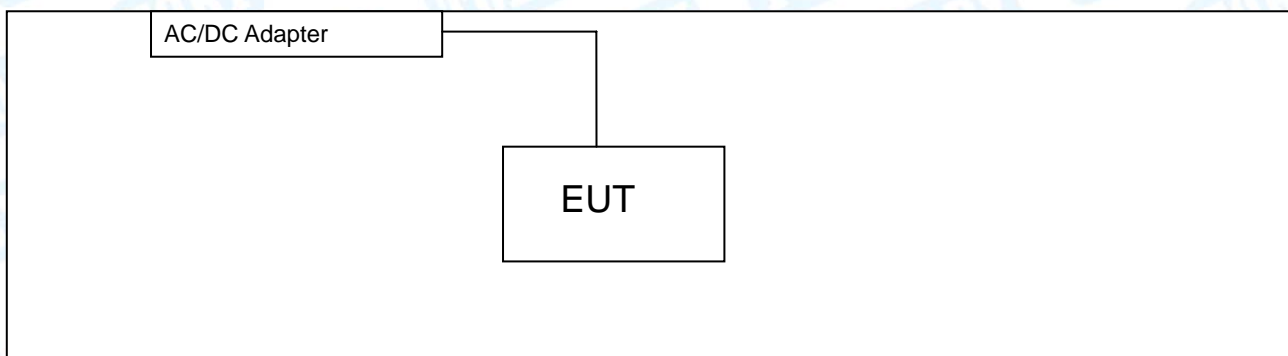
KDB 558074 D01 DTS Meas Guidance v03r03.

- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for BLE function, and recorded in the separate test report.
- (3) Antenna information provided by the applicant.
- (4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note:CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

### 1.3 Block Diagram Showing the Configuration of System Tested

#### TX Mode



### 1.4 Description of Support Units

The EUT has been tested as an independent unit.



## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	AC Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 3	TX Mode B Mode Channel 01/06/11
Mode 4	TX Mode G Mode Channel 01/06/11
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11

**Note:**

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.  
According to ANSI C63.10 standards, the measurements are performed at the highest, Midle, lowest available channels, and the worst case data rate as follows:  
802.11b Mode: CCK (1 Mbps)  
802.11g Mode: OFDM (6 Mbps)  
802.11n (HT20) Mode: MCS 0 (6.5 Mbps)  
802.11n (HT40) Mode: MCS 0 (13 Mbps)
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	Realtek MP Test		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	45	45	45
IEEE 802.11g OFDM	45	45	44
IEEE 802.11n (HT20)	43	43	42
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	43	45	44

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty ( $U_{Lab}$ )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm 3.42$ dB $\pm 3.42$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.40$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB

## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **FCC List No.: (811562)**

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



## 2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
<b>Note:</b> "/" for no requirement for this test item. N/A is an abbreviation for Not Applicable.				



### 3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



## 4. Conducted Emission Test

### 4.1 Test Standard and Limit

#### 4.1.1 Test Standard

FCC Part 15.207

#### 4.1.2 Test Limit

**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

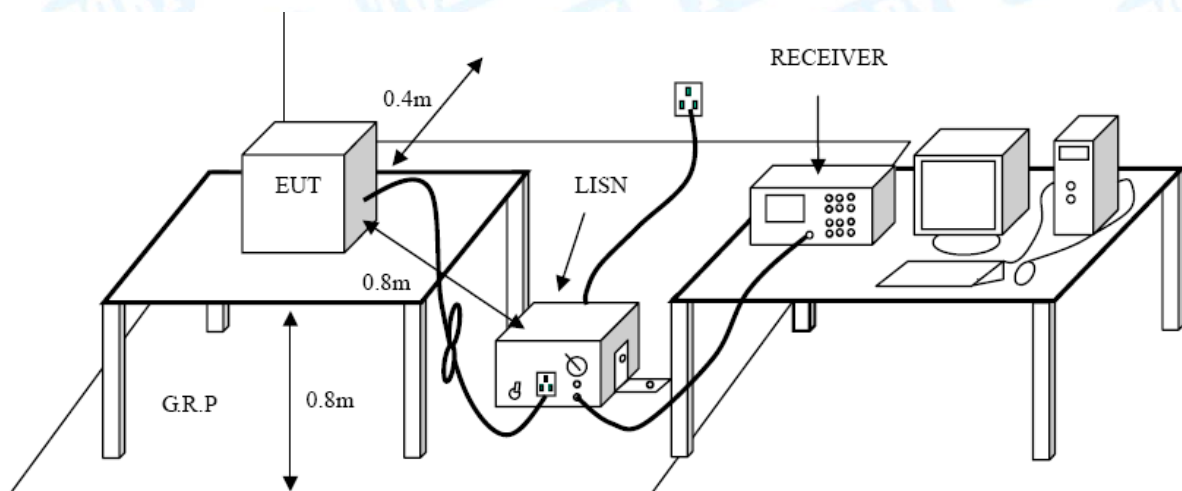
Notes:

(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2 Test Setup



### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

#### 4.4 EUT Operating Mode

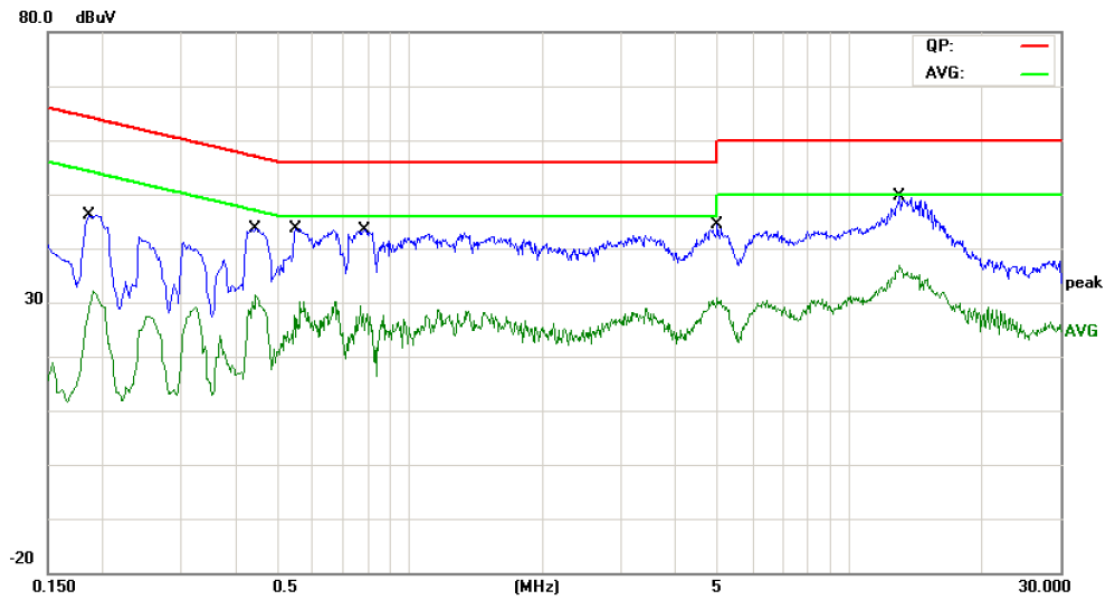
Please refer to the description of test mode.

#### 4.5 Test Data

Please see the next page



<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		

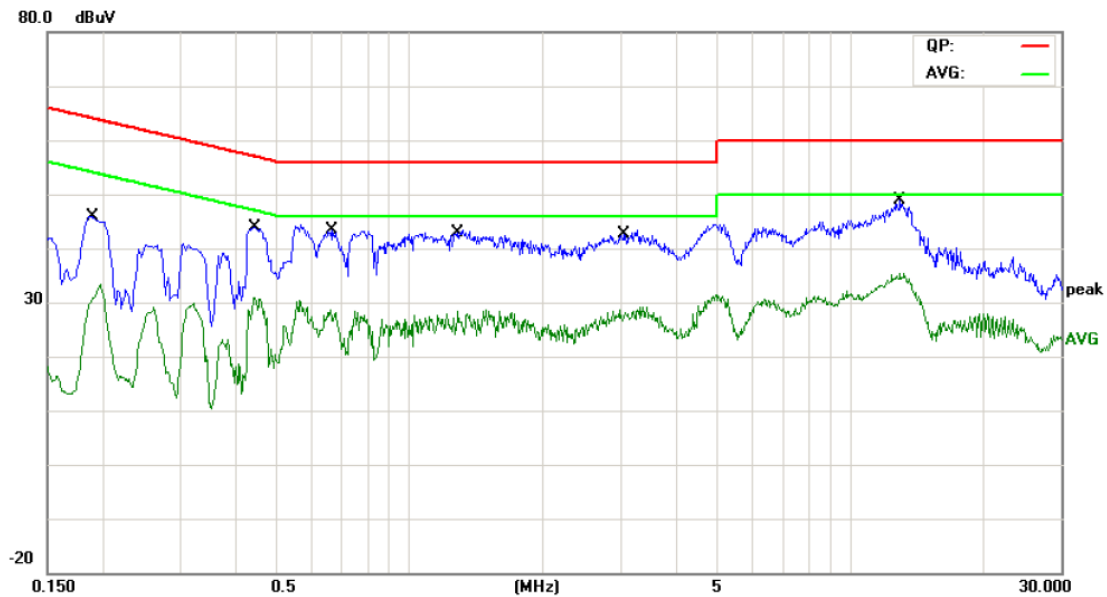


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1859	36.08	10.12	46.20	64.21	-18.01	QP
2		0.1859	21.91	10.12	32.03	54.21	-22.18	AVG
3		0.4460	33.51	10.04	43.55	56.95	-13.40	QP
4		0.4460	21.29	10.04	31.33	46.95	-15.62	AVG
5		0.5500	33.49	10.02	43.51	56.00	-12.49	QP
6		0.5500	20.15	10.02	30.17	46.00	-15.83	AVG
7		0.7900	33.37	10.06	43.43	56.00	-12.57	QP
8		0.7900	19.42	10.06	29.48	46.00	-16.52	AVG
9		4.9898	34.22	10.06	44.28	56.00	-11.72	QP
10		4.9898	20.70	10.06	30.76	46.00	-15.24	AVG
11	*	12.9539	39.45	10.10	49.55	60.00	-10.45	QP
12		12.9539	26.70	10.10	36.80	50.00	-13.20	AVG

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

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



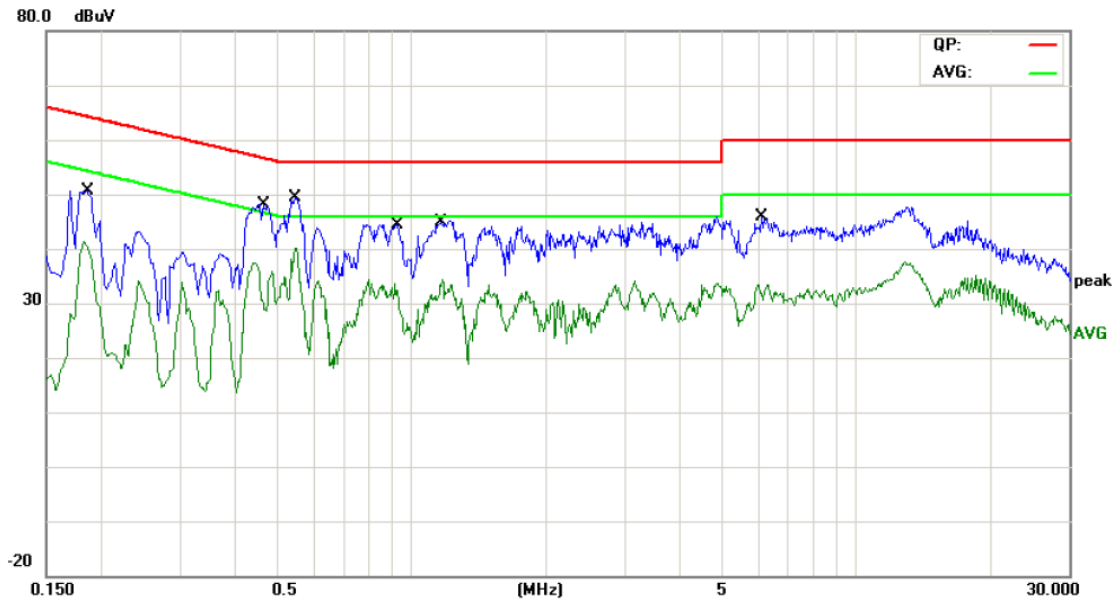
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1900	35.70	10.12	45.82	64.03	-18.21	QP
2		0.1900	23.37	10.12	33.49	54.03	-20.54	AVG
3		0.4420	33.87	10.04	43.91	57.02	-13.11	QP
4		0.4420	20.84	10.04	30.88	47.02	-16.14	AVG
5		0.6580	33.38	10.02	43.40	56.00	-12.60	QP
6		0.6580	18.67	10.02	28.69	46.00	-17.31	AVG
7		1.2860	33.31	10.13	43.44	56.00	-12.56	QP
8		1.2860	18.30	10.13	28.43	46.00	-17.57	AVG
9		3.0659	32.63	10.06	42.69	56.00	-13.31	QP
10		3.0659	18.65	10.06	28.71	46.00	-17.29	AVG
11	*	12.9539	38.71	10.10	48.81	60.00	-11.19	QP
12		12.9539	25.25	10.10	35.35	50.00	-14.65	AVG

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

**Emission Level= Read Level+ Correct Factor**



<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 240V/60 Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		

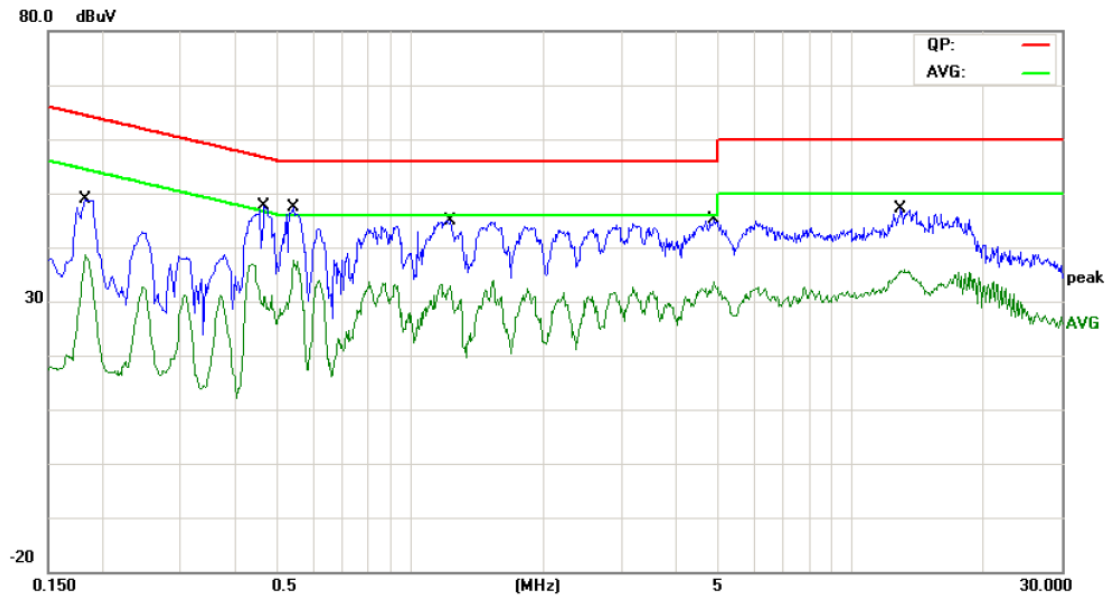


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1860	40.46	10.12	50.58	64.21	-13.63	QP
2	0.1860	31.32	10.12	41.44	54.21	-12.77	AVG
3	0.4620	38.09	10.03	48.12	56.66	-8.54	QP
4	0.4620	27.42	10.03	37.45	46.66	-9.21	AVG
5	0.5460	39.37	10.02	49.39	56.00	-6.61	QP
6 *	0.5460	30.13	10.02	40.15	46.00	-5.85	AVG
7	0.9180	34.31	10.12	44.43	56.00	-11.57	QP
8	0.9180	23.60	10.12	33.72	46.00	-12.28	AVG
9	1.1660	34.97	10.14	45.11	56.00	-10.89	QP
10	1.1660	24.20	10.14	34.34	46.00	-11.66	AVG
11	6.0059	35.94	10.06	46.00	60.00	-14.00	QP
12	6.0059	23.40	10.06	33.46	50.00	-16.54	AVG

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

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 240V/60 Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1819	38.78	9.98	48.76	64.39	-15.63	QP
2		0.1819	28.72	9.98	38.70	54.39	-15.69	AVG
3		0.4660	37.60	10.02	47.62	56.58	-8.96	QP
4		0.4660	26.87	10.02	36.89	46.58	-9.69	AVG
5		0.5420	37.30	10.04	47.34	56.00	-8.66	QP
6	*	0.5420	27.48	10.04	37.52	46.00	-8.48	AVG
7		1.2300	34.90	10.06	44.96	56.00	-11.04	QP
8		1.2300	22.88	10.06	32.94	46.00	-13.06	AVG
9		4.8859	35.10	9.96	45.06	56.00	-10.94	QP
10		4.8859	23.09	9.96	33.05	46.00	-12.95	AVG
11		12.9539	36.93	10.22	47.15	60.00	-12.85	QP
12		12.9539	25.58	10.22	35.80	50.00	-14.20	AVG

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

**Emission Level= Read Level+ Correct Factor**



## 5. Radiated Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.209

#### 5.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

Frequency (MHz)	Field Strength (microvolt/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

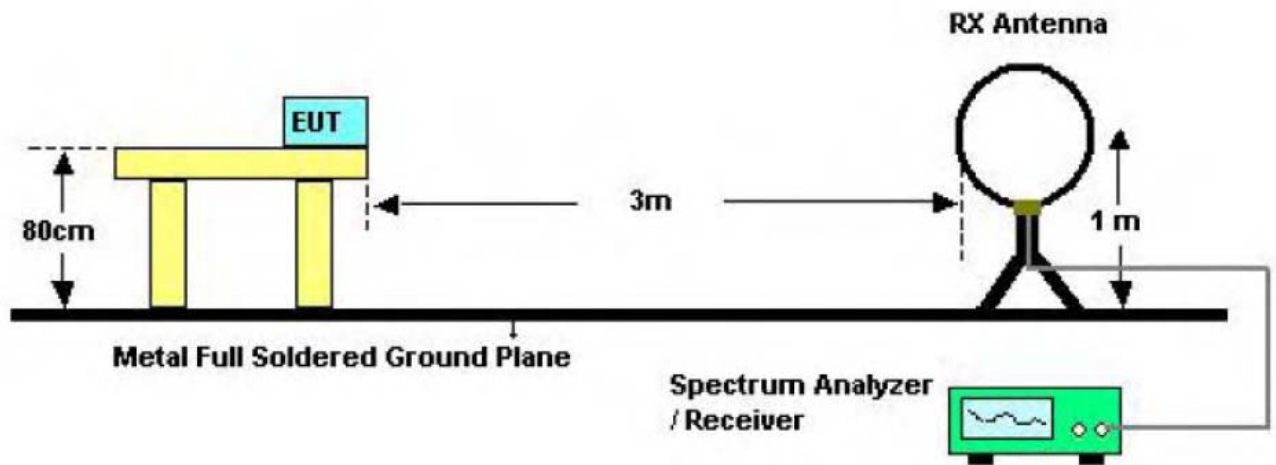
**Radiated Emission Limit (Above 1000MHz)**

Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

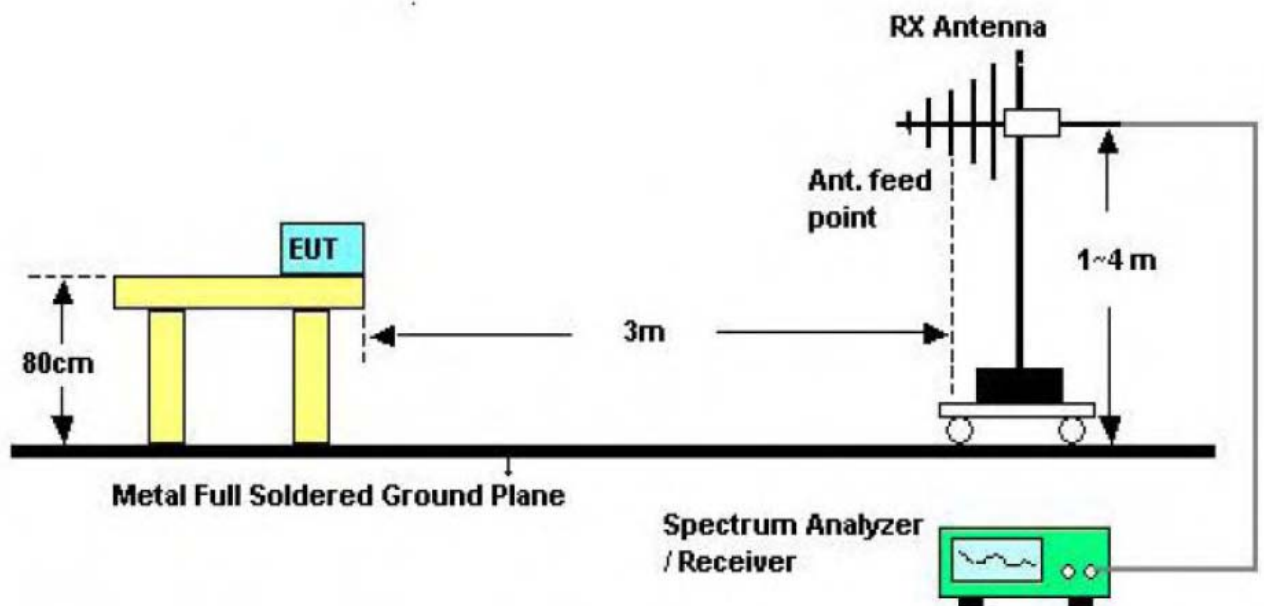
**Note:**

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

## 5.2 Test Setup

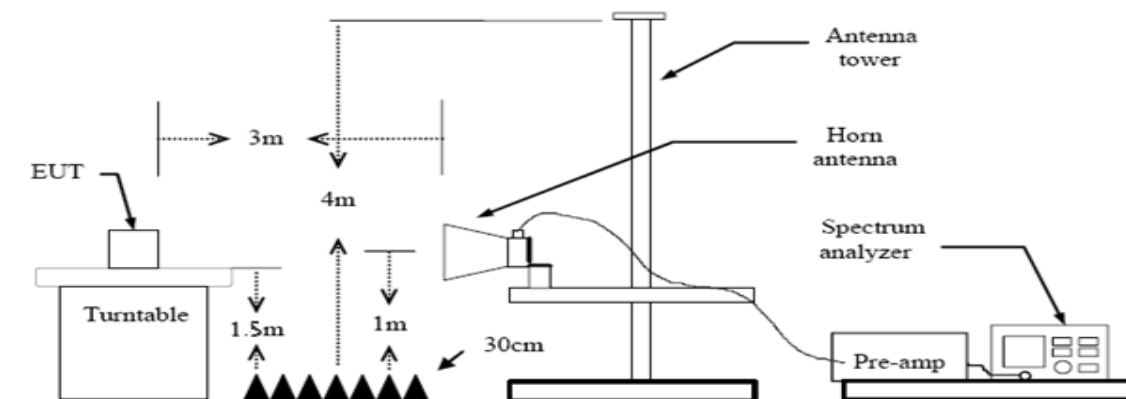


Below 30MHz Test Setup



Below 1000MHz Test Setup





Above 1GHz Test Setup

### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

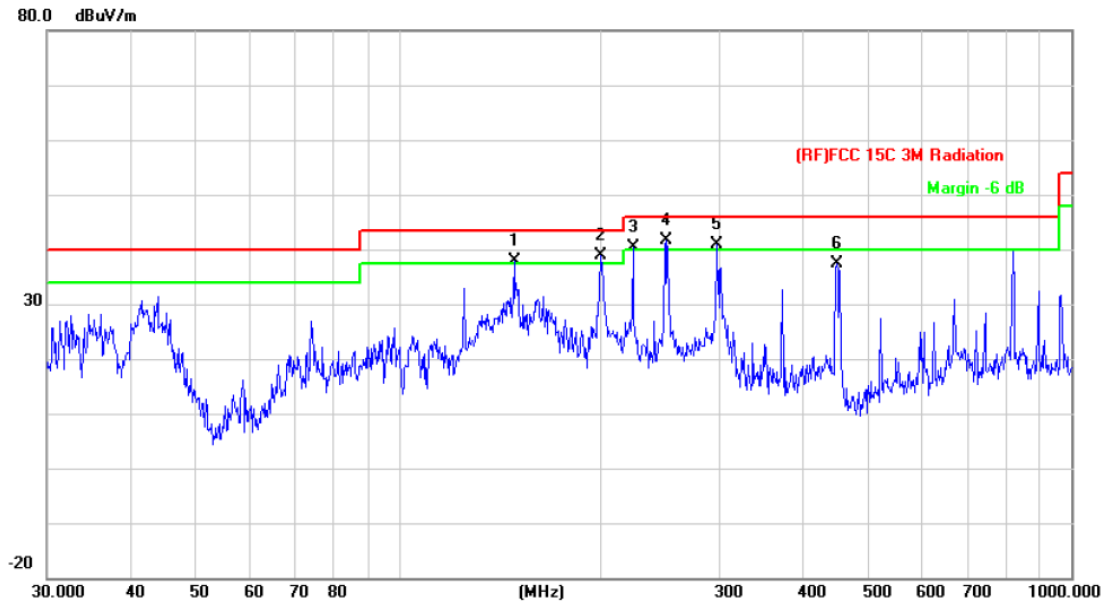
## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		

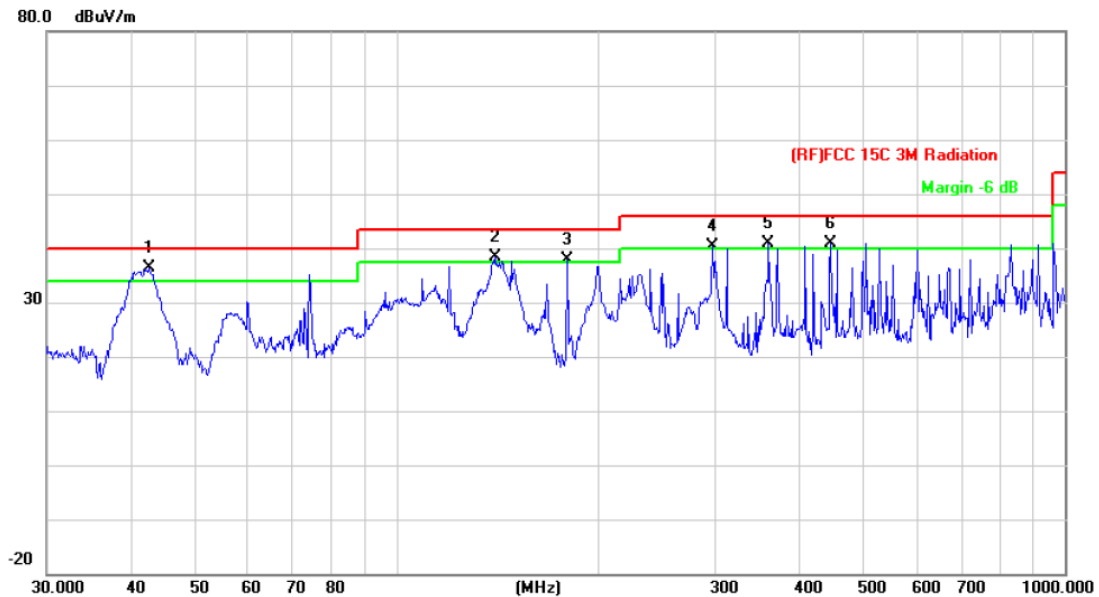


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	148.4410	59.22	-21.30	37.92	43.50	-5.58	peak
2	!	199.2855	59.22	-20.43	38.79	43.50	-4.71	peak
3	!	222.9499	59.71	-19.40	40.31	46.00	-5.69	peak
4	*	249.4250	59.90	-18.15	41.75	46.00	-4.25	peak
5	!	297.2241	58.13	-17.14	40.99	46.00	-5.01	peak
6		447.9821	49.81	-12.49	37.32	46.00	-8.68	peak

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

**Emission Level= Read Level+ Correct Factor**

EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



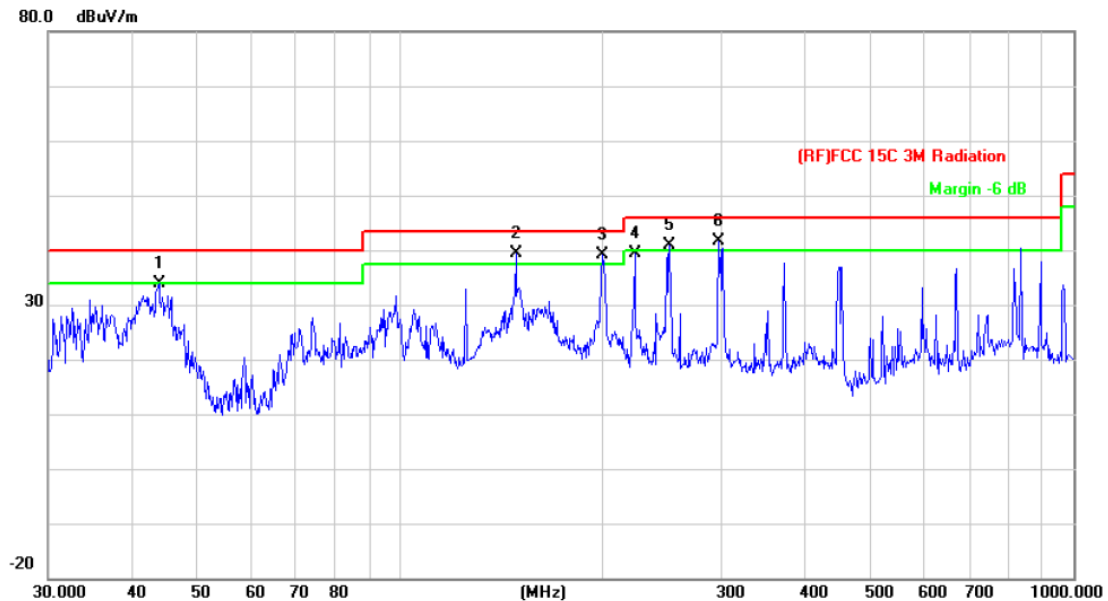
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	42.6000	57.67	-21.26	36.41	40.00	-3.59	peak
2	!	140.3420	60.36	-21.95	38.41	43.50	-5.09	peak
3	!	180.0165	58.48	-20.57	37.91	43.50	-5.59	peak
4	!	297.2241	57.58	-17.14	40.44	46.00	-5.56	peak
5	!	360.4476	55.43	-14.55	40.88	46.00	-5.12	peak
6	!	446.4141	53.39	-12.53	40.86	46.00	-5.14	peak

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

Emission Level= Read Level+ Correct Factor



EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

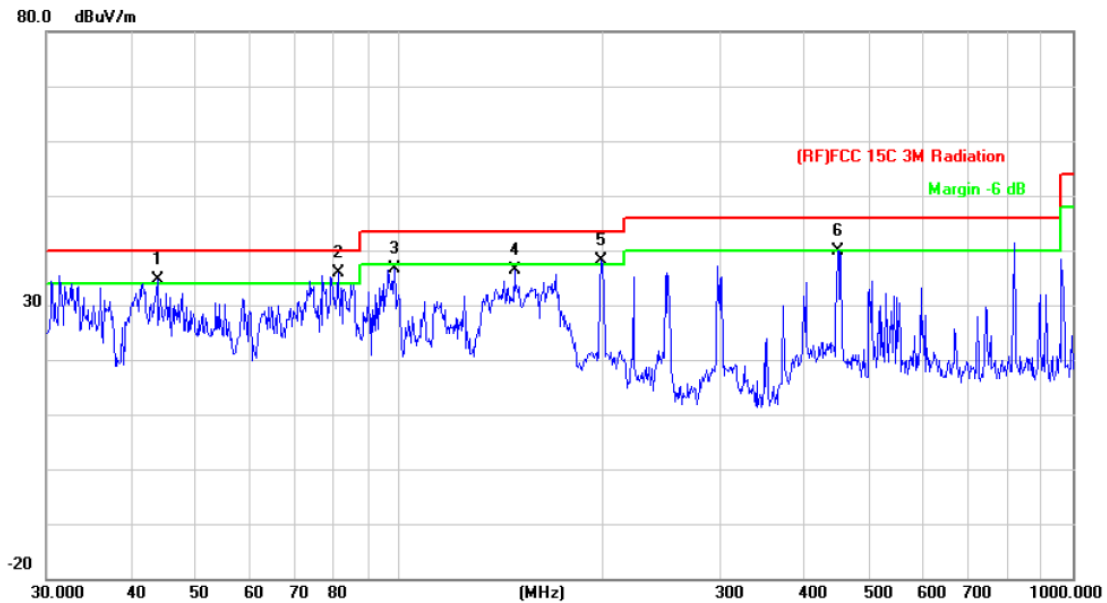


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		43.8119	55.61	-21.77	33.84	40.00	-6.16	peak
2	*	148.4410	60.74	-21.30	39.44	43.50	-4.06	peak
3	!	199.2855	59.48	-20.43	39.05	43.50	-4.45	peak
4		222.9499	58.70	-19.40	39.30	46.00	-6.70	peak
5	!	251.1802	58.86	-18.10	40.76	46.00	-5.24	peak
6	!	297.2241	58.71	-17.14	41.57	46.00	-4.43	peak

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

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	Only worse case is reported		



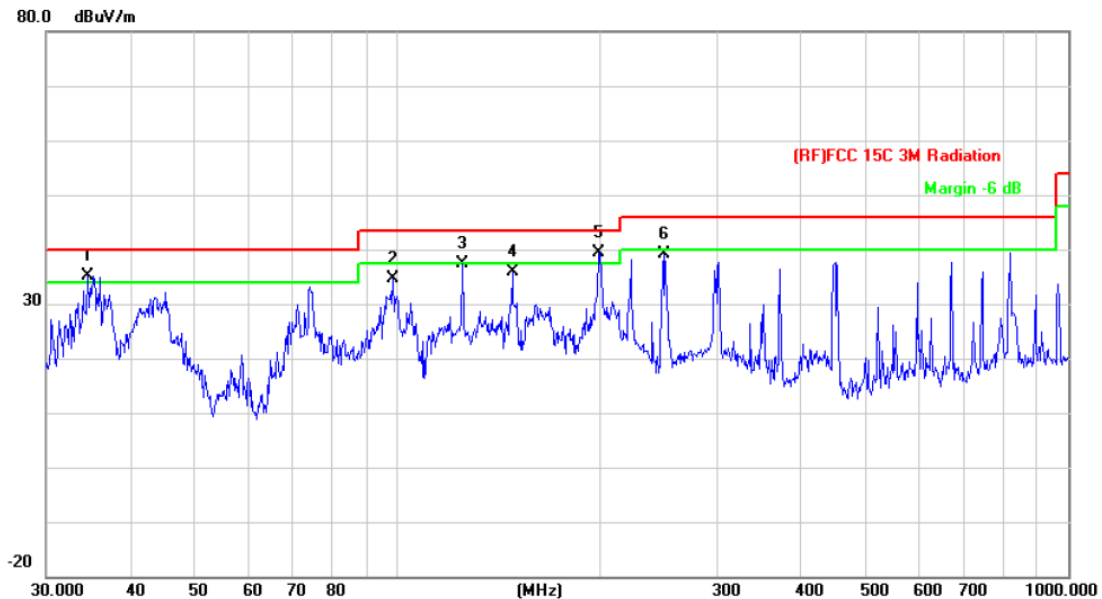
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	43.8119	56.44	-21.77	34.67	40.00	-5.33	peak
2	*	81.2116	58.99	-23.21	35.78	40.00	-4.22	peak
3		98.4865	58.66	-21.95	36.71	43.50	-6.79	peak
4		148.4410	57.57	-21.30	36.27	43.50	-7.23	peak
5	!	199.2855	58.47	-20.43	38.04	43.50	-5.46	peak
6		447.9821	52.44	-12.49	39.95	46.00	-6.05	peak

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

**Emission Level= Read Level+ Correct Factor**



<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	Only worse case is reported		

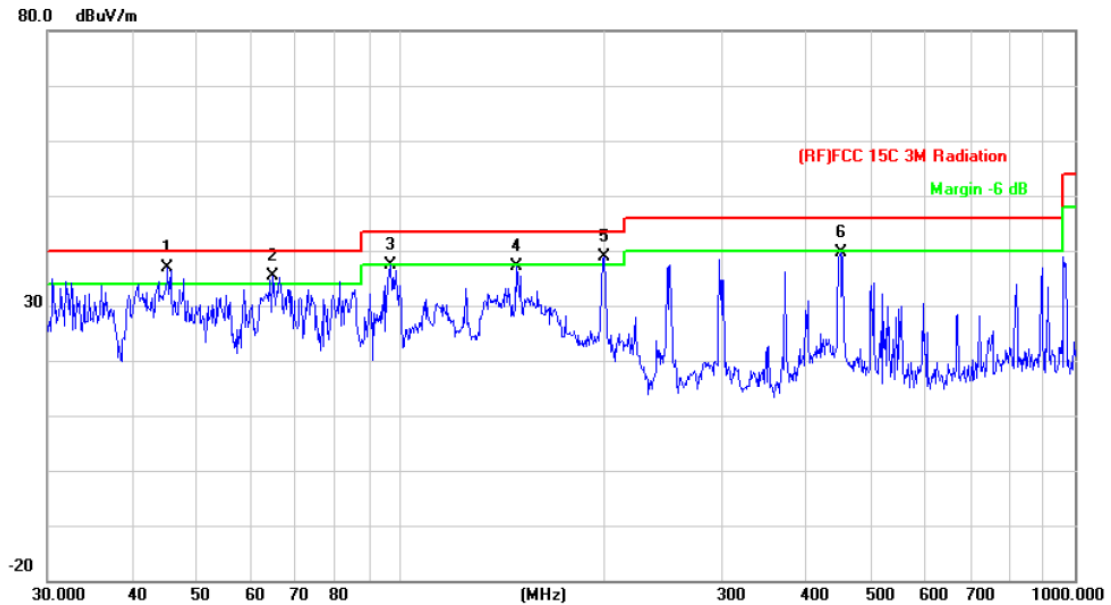


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	!	34.5172	52.00	-16.76	35.24	40.00	-4.76	peak
2		98.4865	56.50	-21.95	34.55	43.50	-8.95	peak
3		125.0066	59.83	-22.34	37.49	43.50	-6.01	peak
4		148.4410	57.21	-21.30	35.91	43.50	-7.59	peak
5	*	199.2855	59.80	-20.43	39.37	43.50	-4.13	peak
6		249.4250	57.24	-18.15	39.09	46.00	-6.91	peak

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

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	Only worse case is reported		



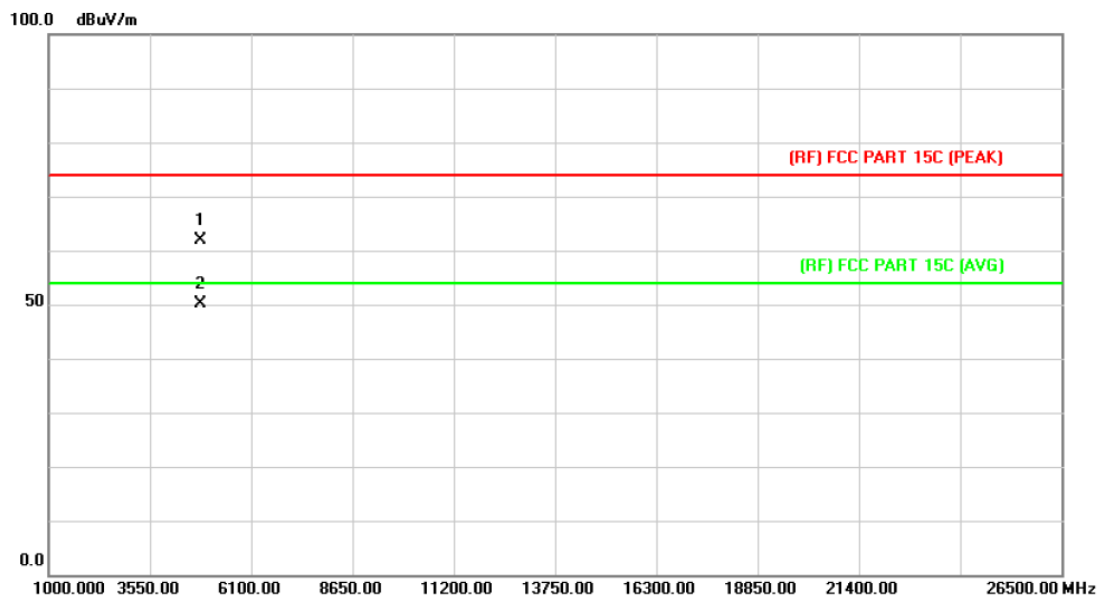
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	45.2165	59.35	-22.37	36.98	40.00	-3.02	peak
2	!	64.6594	59.59	-24.10	35.49	40.00	-4.51	peak
3		96.7749	59.47	-22.10	37.37	43.50	-6.13	peak
4		148.4410	58.38	-21.30	37.08	43.50	-6.42	peak
5	!	200.6879	59.34	-20.36	38.98	43.50	-4.52	peak
6		449.5557	52.03	-12.47	39.56	46.00	-6.44	peak

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

**Emission Level= Read Level+ Correct Factor**



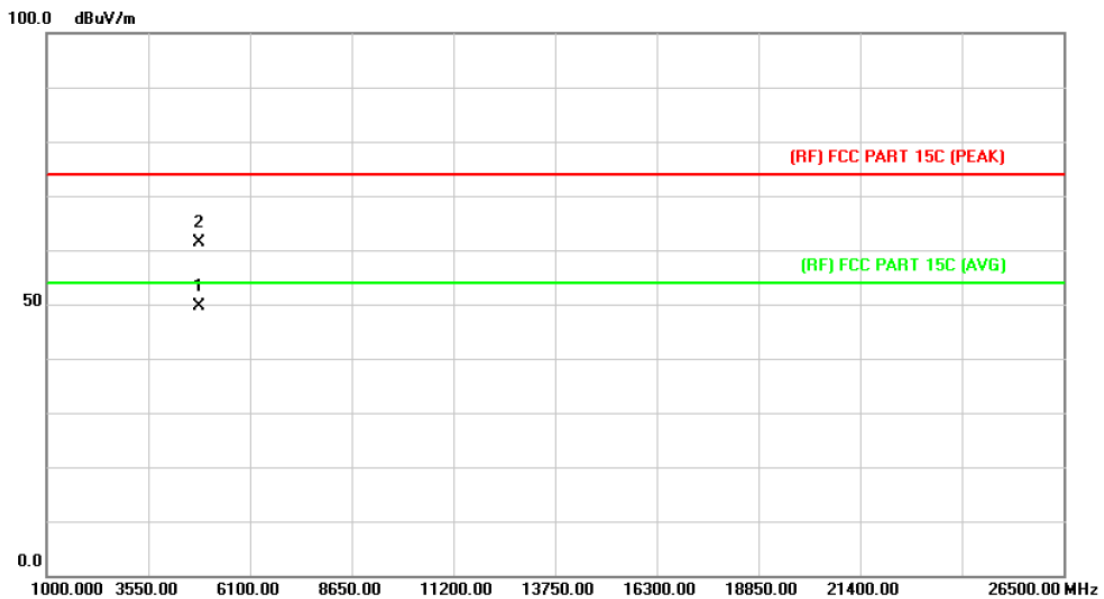
<b>EUT:</b>	Nexersys Console	<b>Model:</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.955	48.37	13.56	61.93	74.00	-12.07	peak
2	*	4824.009	36.56	13.56	50.12	54.00	-3.88	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model:</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

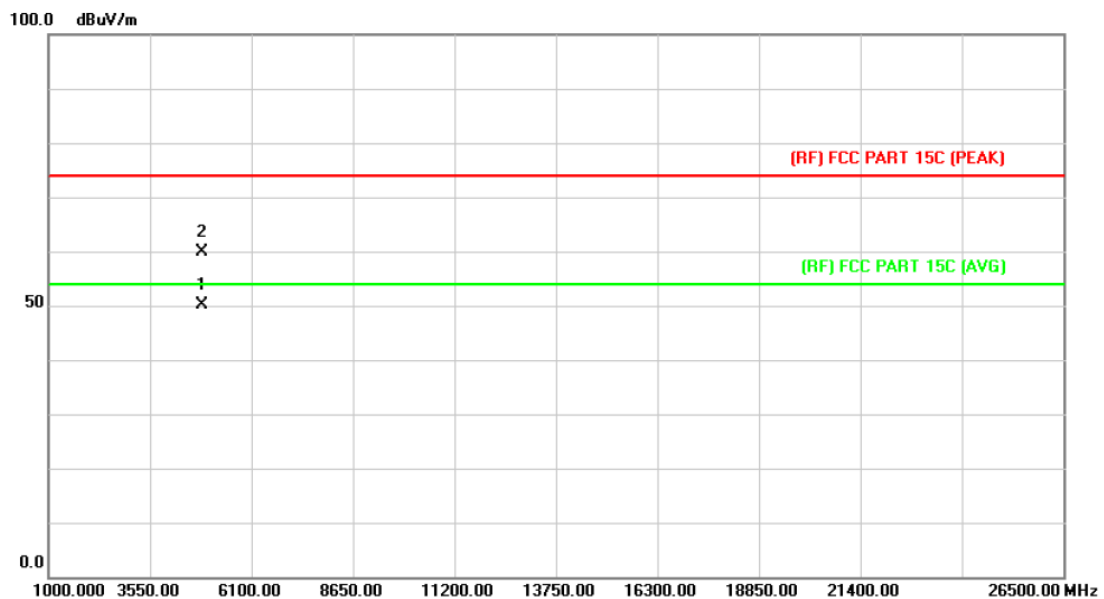


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.009	36.11	13.56	49.67	54.00	-4.33	AVG
2		4824.012	47.93	13.56	61.49	74.00	-12.51	peak

Emission Level= Read Level+ Correct Factor



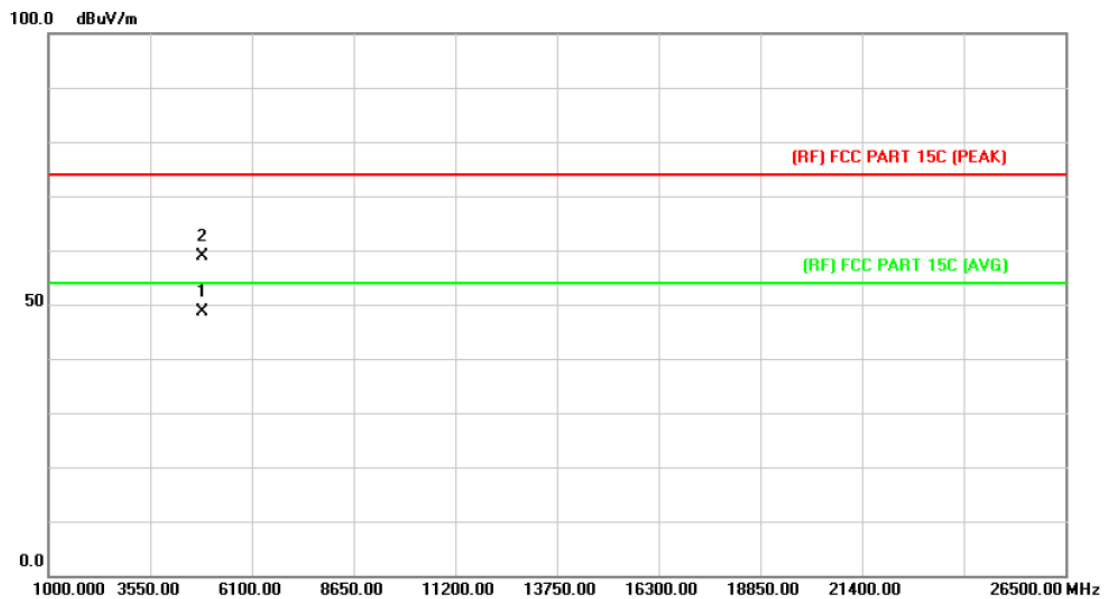
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4873.991	36.19	13.86	50.05	54.00	-3.95	AVG
2		4874.204	46.07	13.86	59.93	74.00	-14.07	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

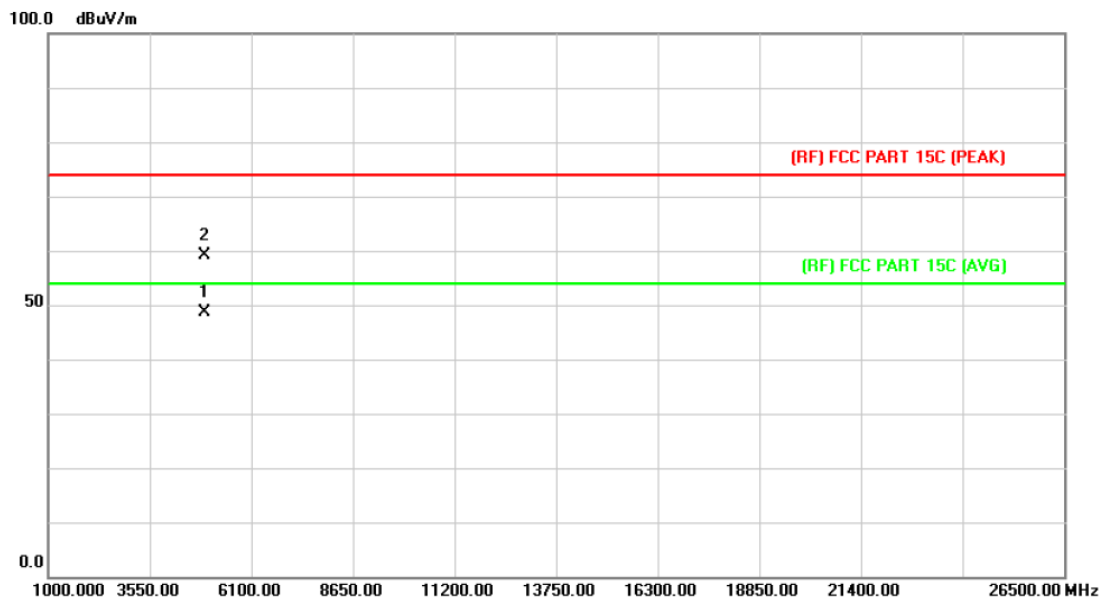


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.970	34.85	13.86	48.71	54.00	-5.29	AVG
2		4874.150	45.14	13.86	59.00	74.00	-15.00	peak

Emission Level= Read Level+ Correct Factor



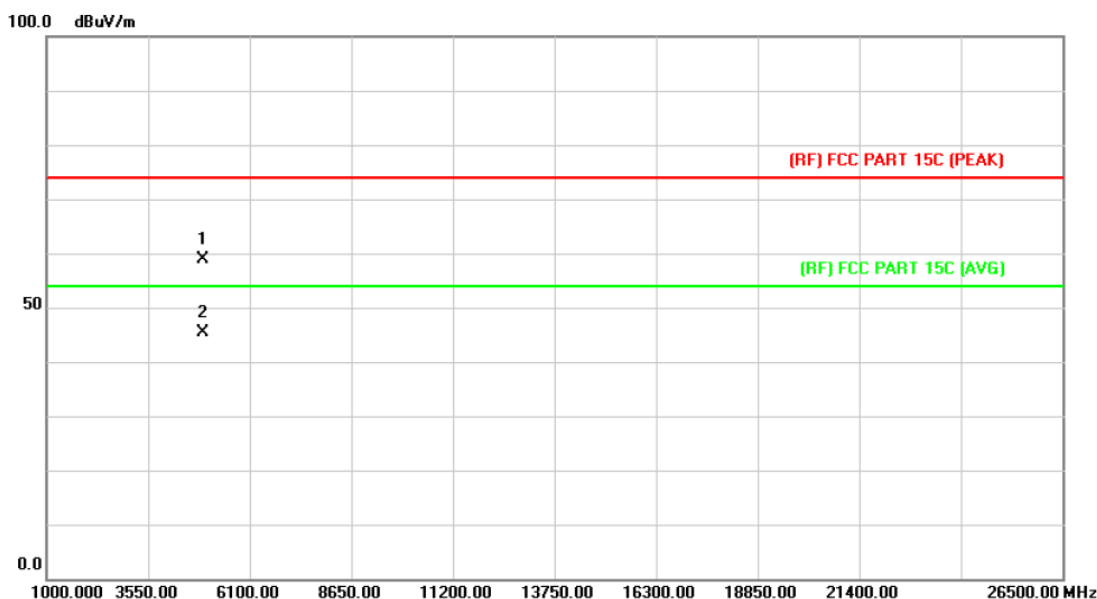
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.009	34.46	14.15	48.61	54.00	-5.39	AVG
2		4924.051	45.01	14.15	59.16	74.00	-14.84	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

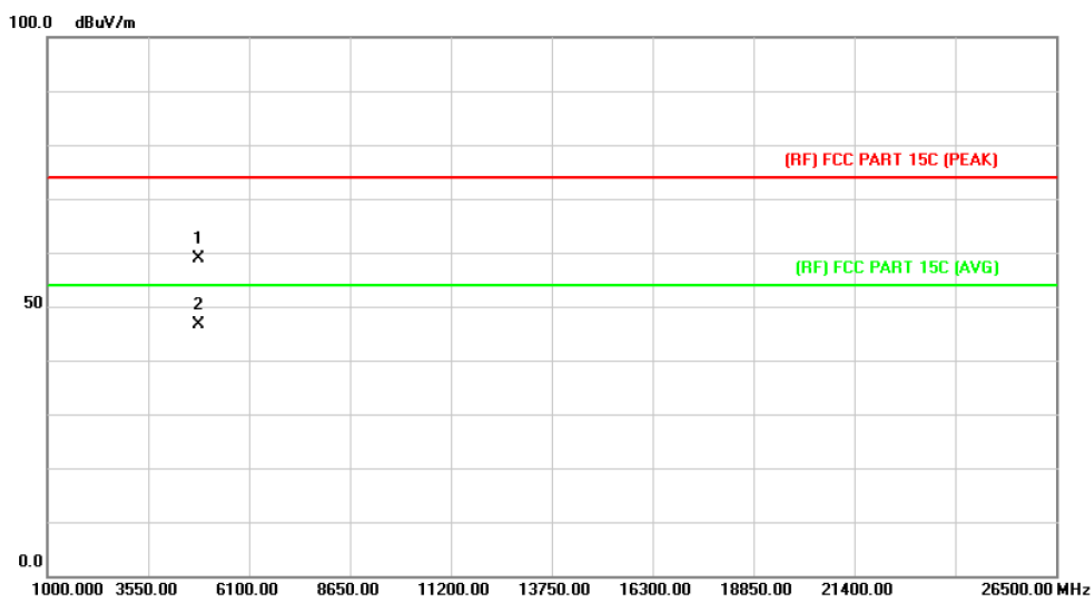


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4922.605	44.71	14.14	58.85	74.00	-15.15	peak
2	*	4924.009	31.28	14.15	45.43	54.00	-8.57	AVG

Emission Level= Read Level+ Correct Factor



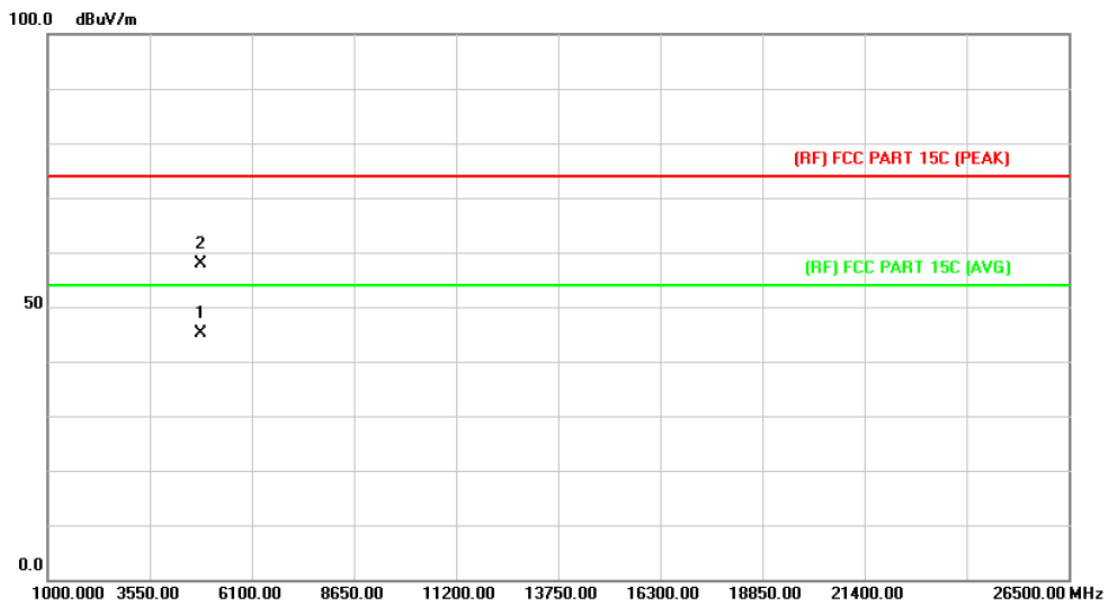
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.682	45.26	13.56	58.82	74.00	-15.18	peak
2	*	4824.030	32.98	13.56	46.54	54.00	-7.46	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

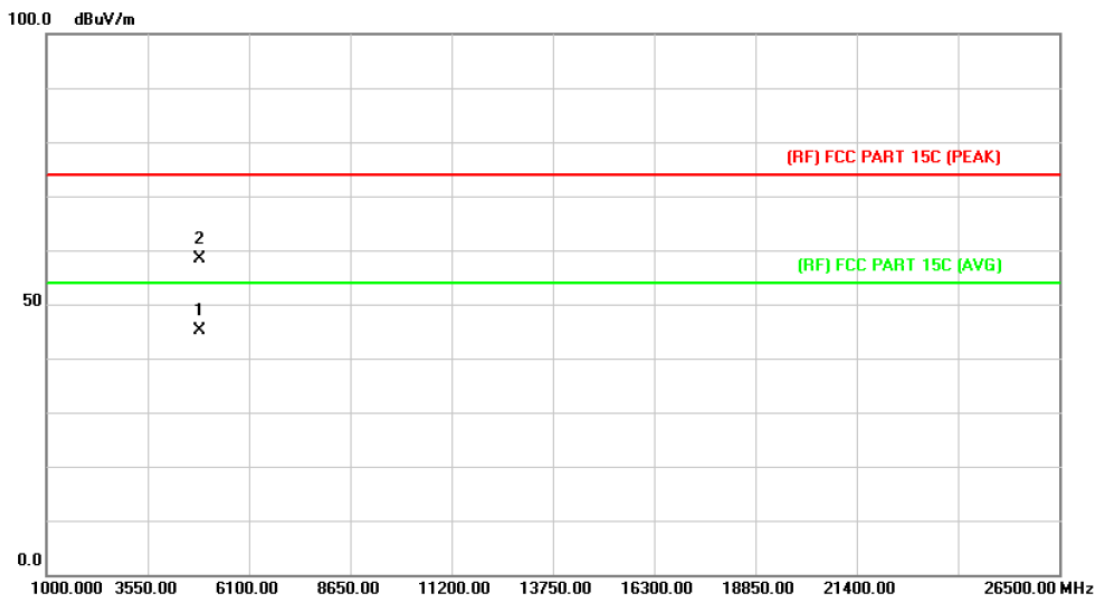


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.970	31.52	13.56	45.08	54.00	-8.92	AVG
2		4824.063	44.32	13.56	57.88	74.00	-16.12	peak

Emission Level= Read Level+ Correct Factor



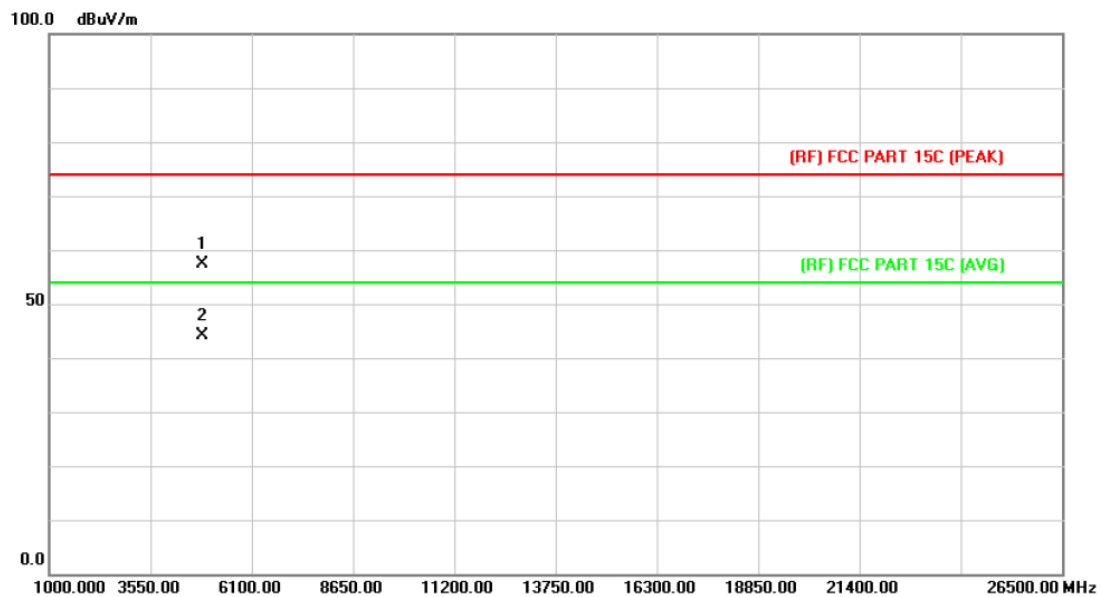
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.030	31.27	13.86	45.13	54.00	-8.87	AVG
2		4874.933	44.47	13.86	58.33	74.00	-15.67	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

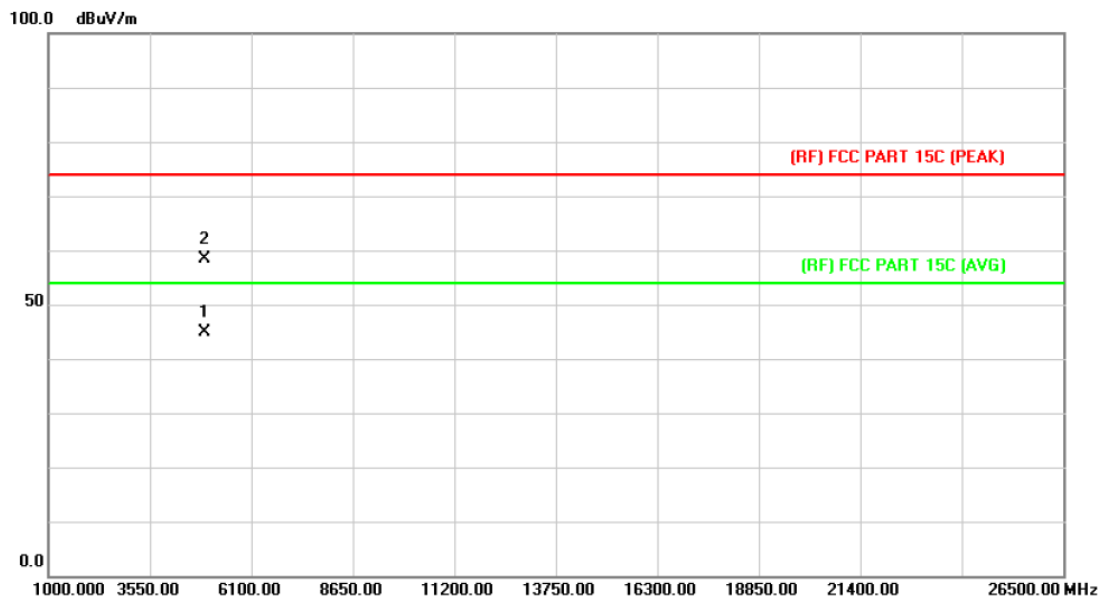


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.643	43.43	13.86	57.29	74.00	-16.71	peak
2	*	4875.323	30.28	13.87	44.15	54.00	-9.85	AVG

Emission Level= Read Level+ Correct Factor



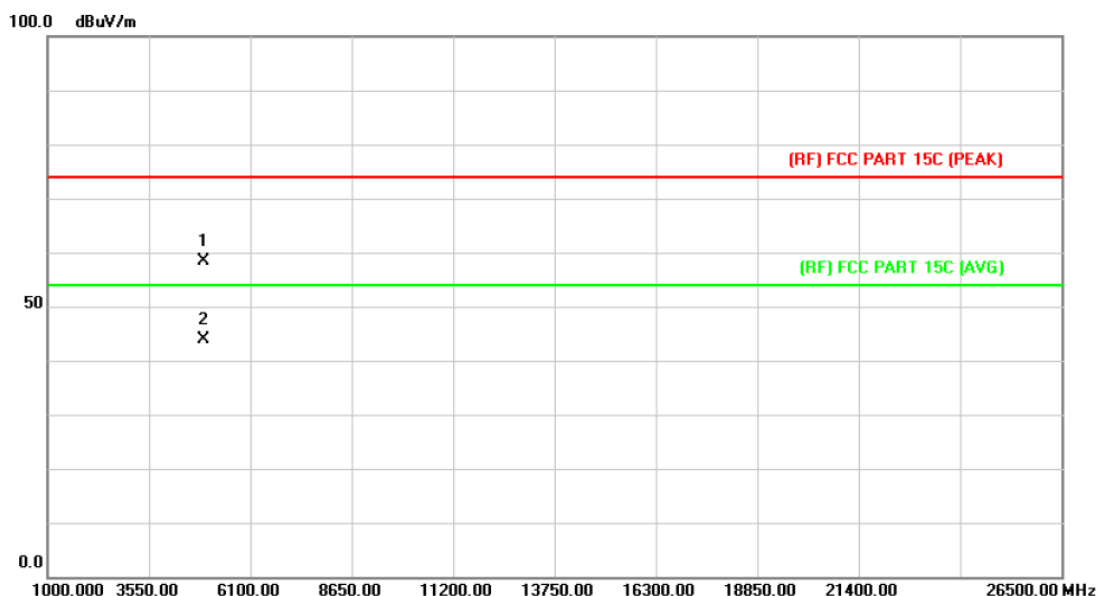
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.009	30.63	14.15	44.78	54.00	-9.22	AVG
2		4924.417	44.12	14.15	58.27	74.00	-15.73	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

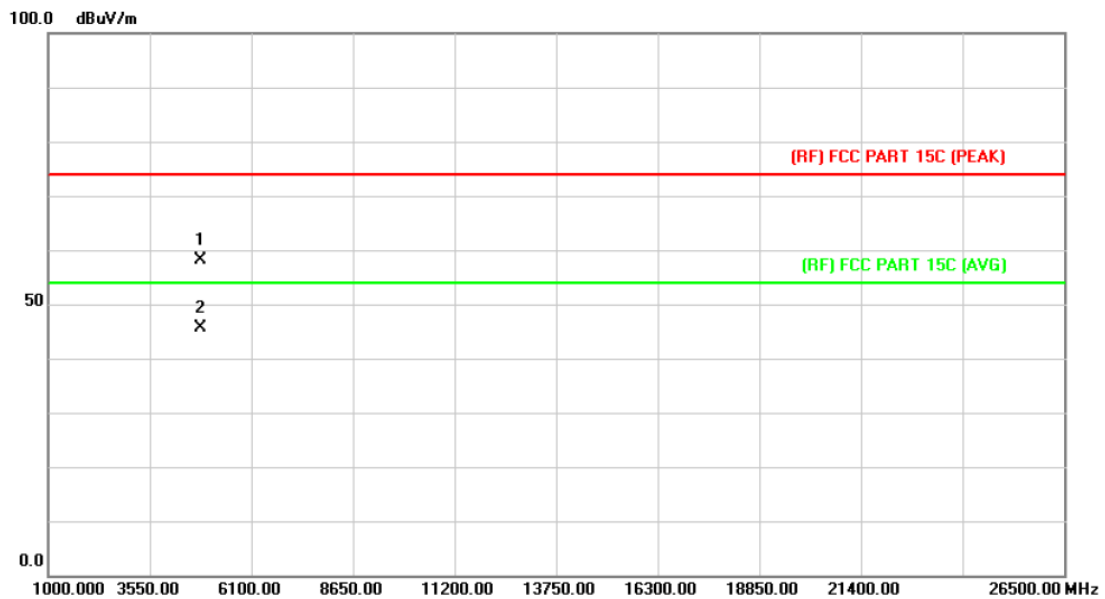


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.036	44.11	14.15	58.26	74.00	-15.74	peak
2	*	4924.606	29.70	14.15	43.85	54.00	-10.15	AVG

Emission Level= Read Level+ Correct Factor



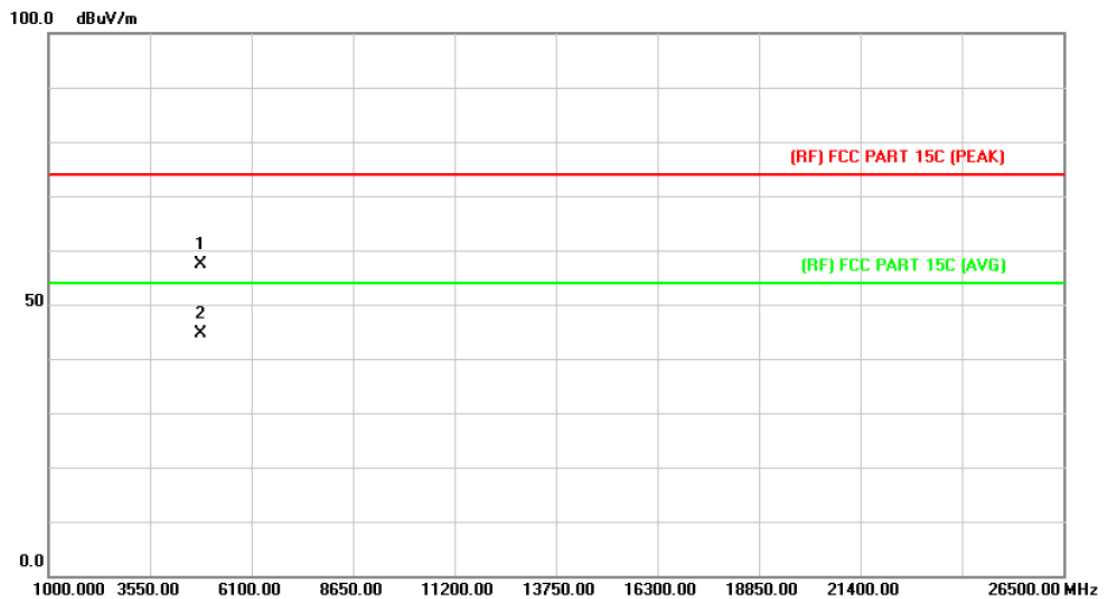
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.856	44.55	13.56	58.11	74.00	-15.89	peak
2	*	4823.988	32.05	13.56	45.61	54.00	-8.39	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

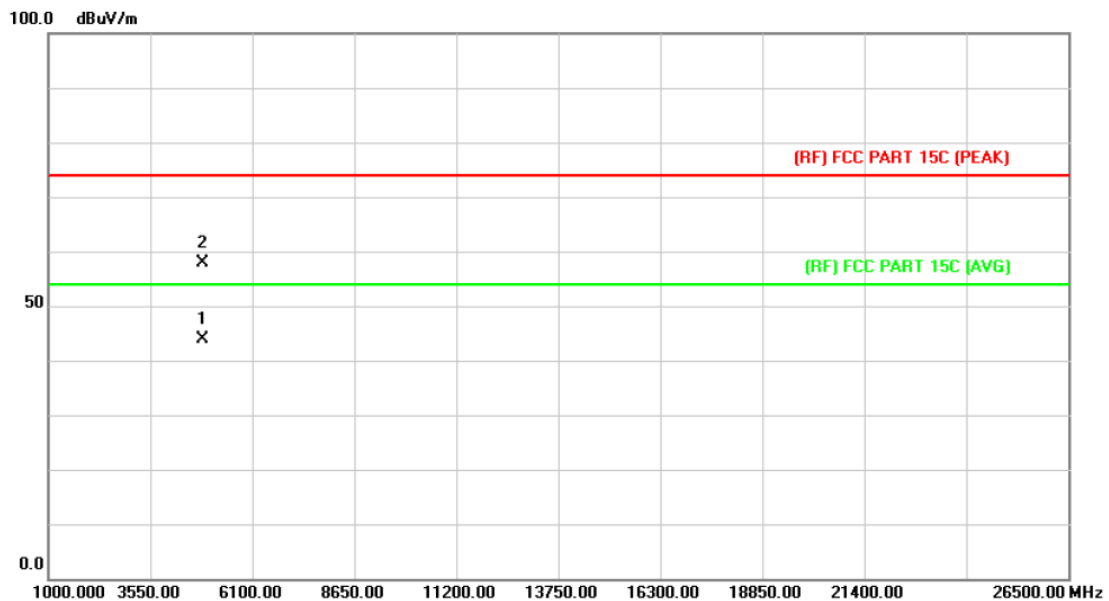


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.688	43.82	13.56	57.38	74.00	-16.62	peak
2	*	4823.970	30.97	13.56	44.53	54.00	-9.47	AVG

Emission Level= Read Level+ Correct Factor



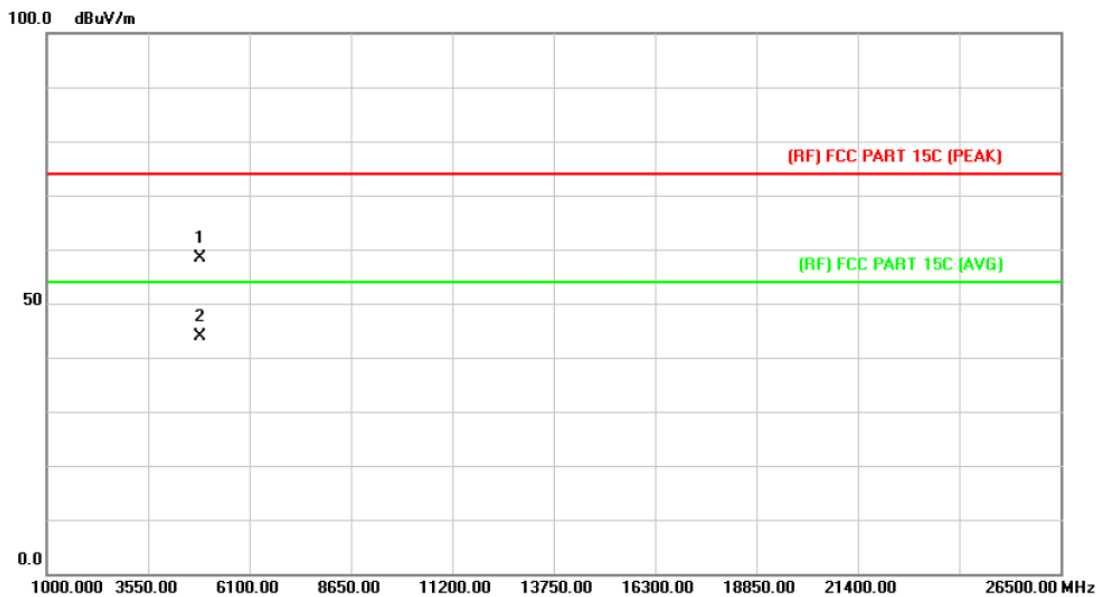
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.453	30.01	13.86	43.87	54.00	-10.13	AVG
2		4875.269	44.10	13.87	57.97	74.00	-16.03	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

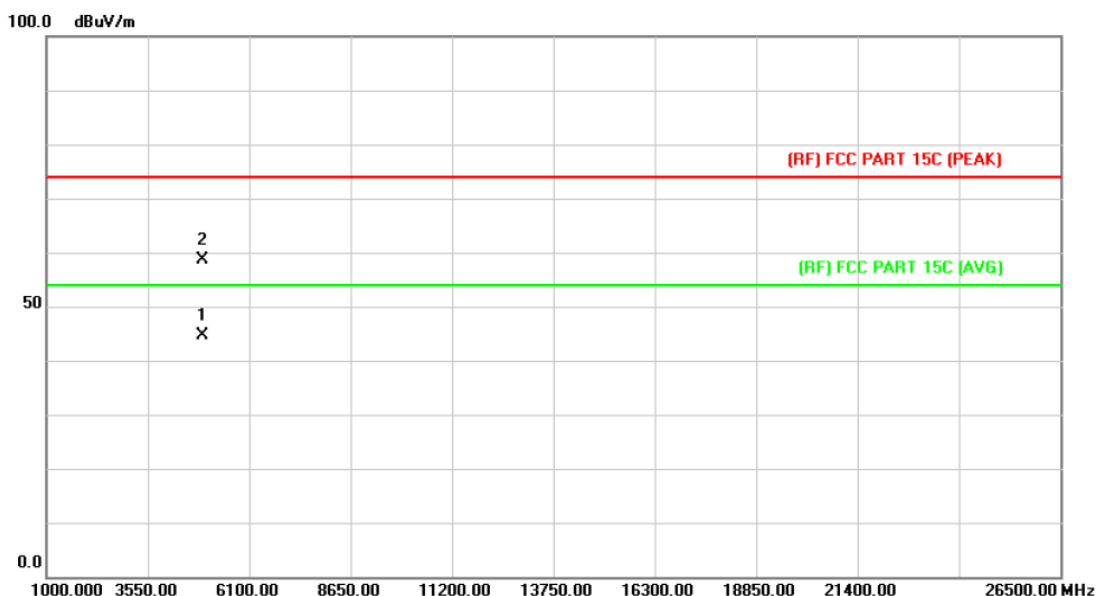


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.834	44.54	13.86	58.40	74.00	-15.60	peak
2	*	4875.221	30.04	13.87	43.91	54.00	-10.09	AVG

Emission Level= Read Level+ Correct Factor



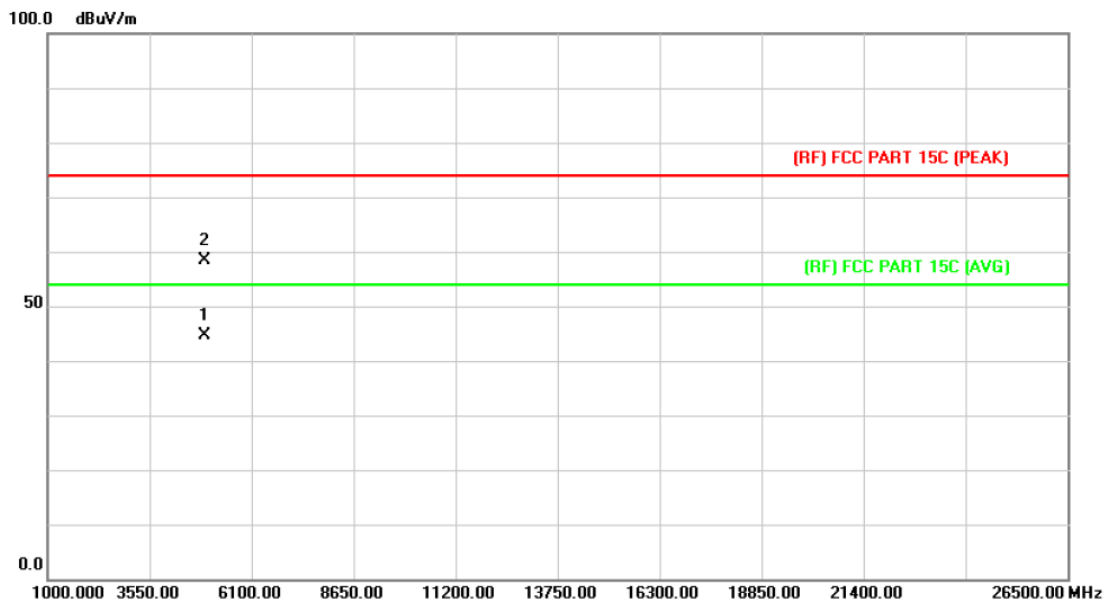
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.758	30.39	14.14	44.53	54.00	-9.47	AVG
2		4924.012	44.52	14.15	58.67	74.00	-15.33	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

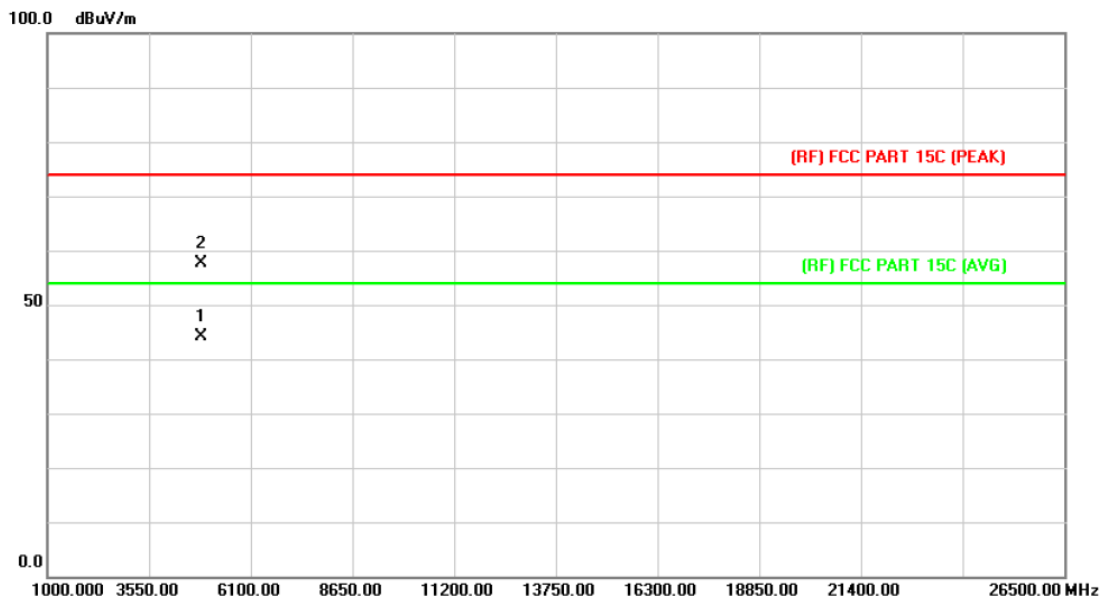


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4922.977	30.38	14.14	44.52	54.00	-9.48	AVG
2		4924.459	44.30	14.15	58.45	74.00	-15.55	peak

Emission Level= Read Level+ Correct Factor



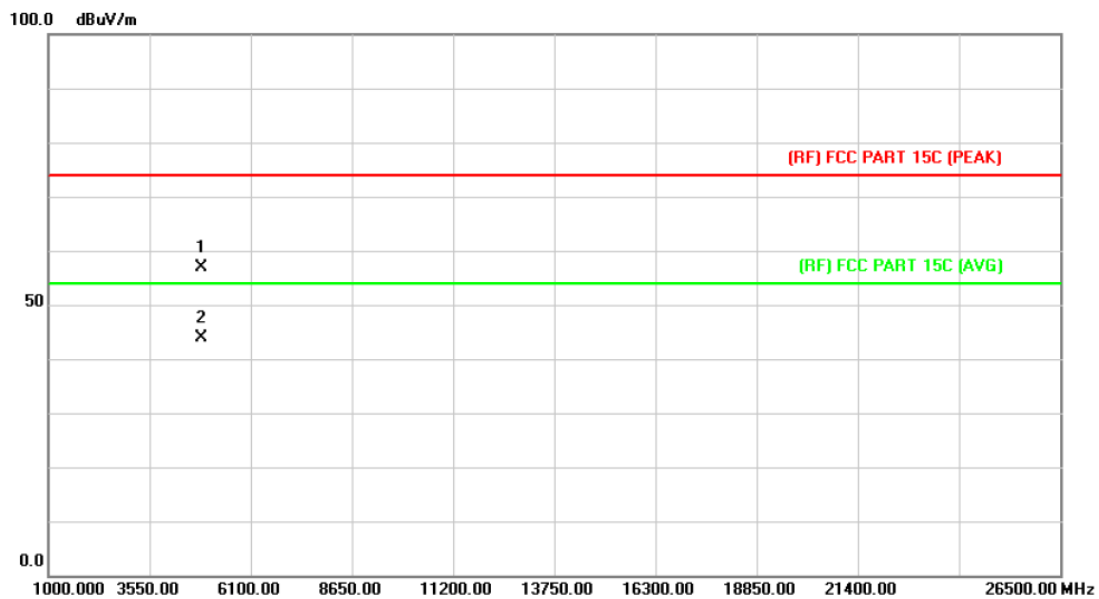
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4844.069	30.44	13.68	44.12	54.00	-9.88	AVG
2		4844.165	43.87	13.68	57.55	74.00	-16.45	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

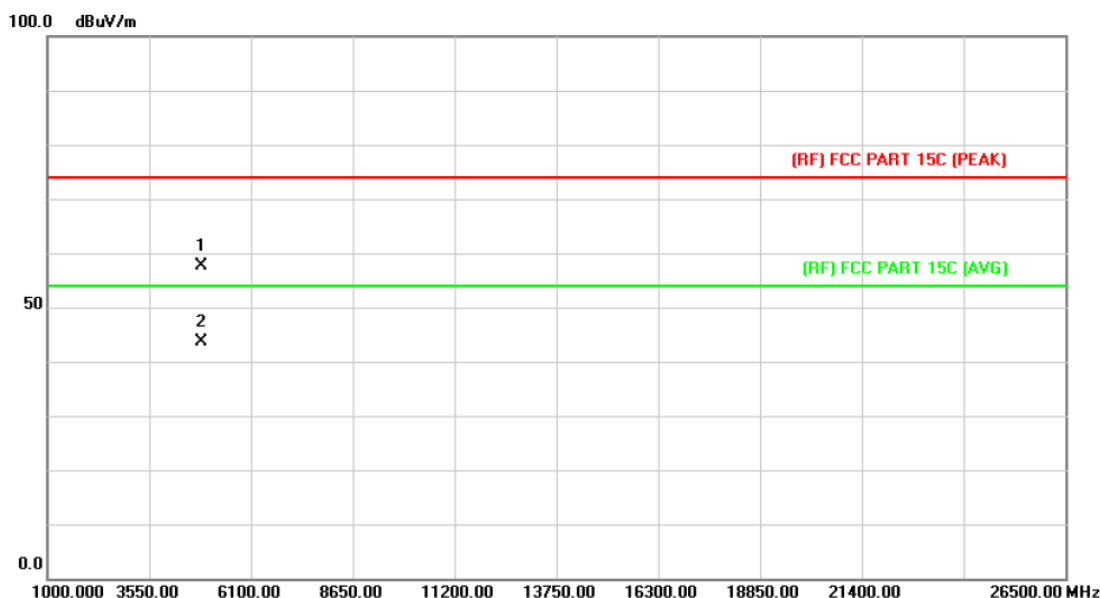


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.412	43.26	13.68	56.94	74.00	-17.06	peak
2	*	4843.910	30.32	13.68	44.00	54.00	-10.00	AVG

Emission Level= Read Level+ Correct Factor



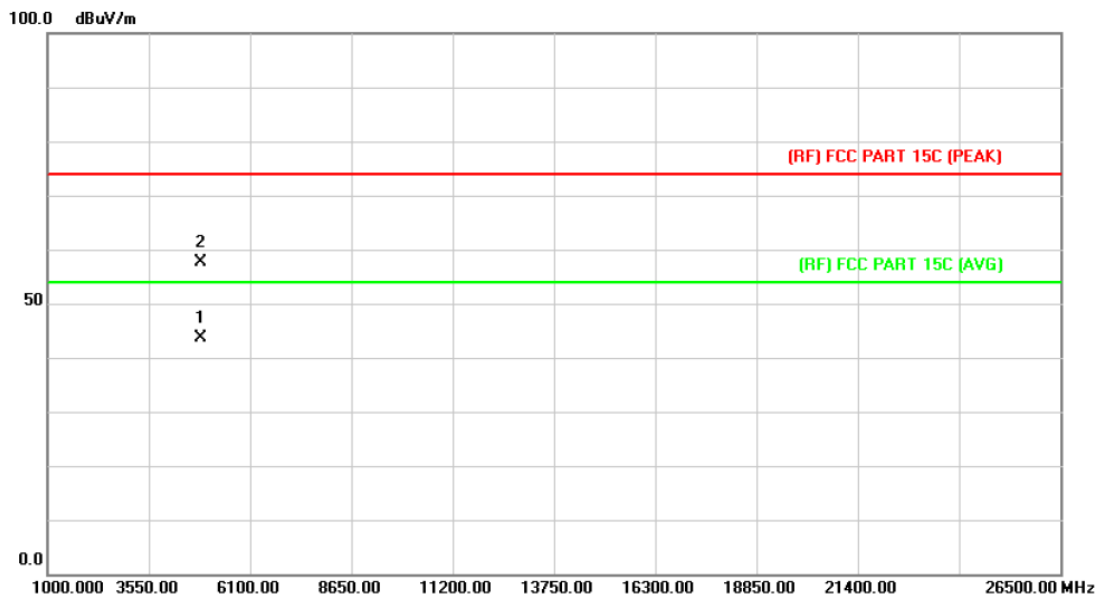
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.521	43.84	13.85	57.69	74.00	-16.31	peak
2	*	4875.260	29.78	13.87	43.65	54.00	-10.35	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

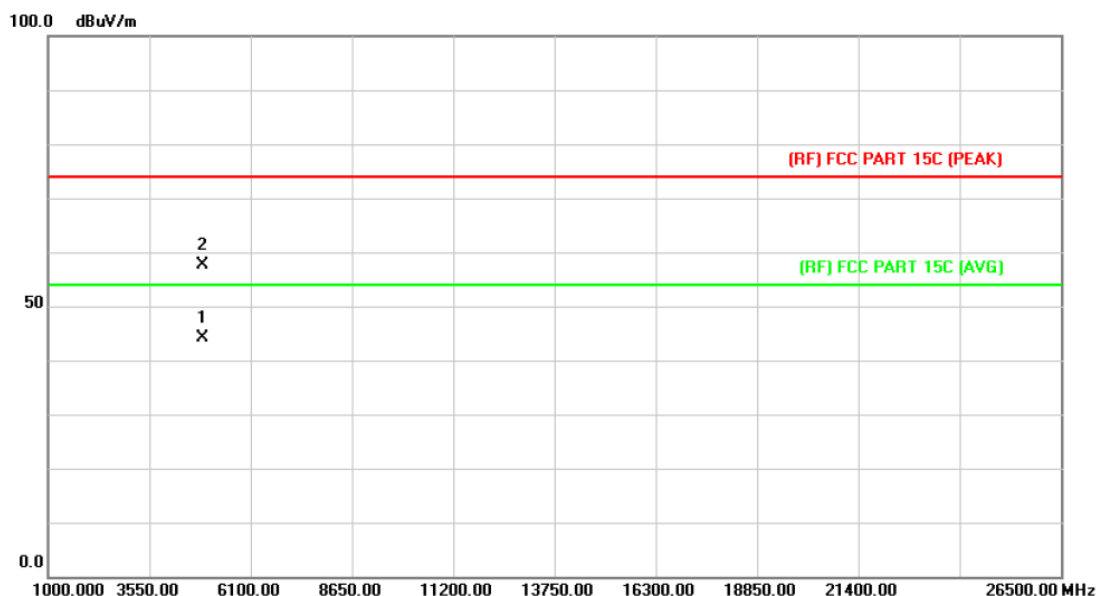


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.090	29.80	13.86	43.66	74.00	-30.34	peak
2	*	4874.117	43.88	13.86	57.74	74.00	-16.26	peak

Emission Level= Read Level+ Correct Factor



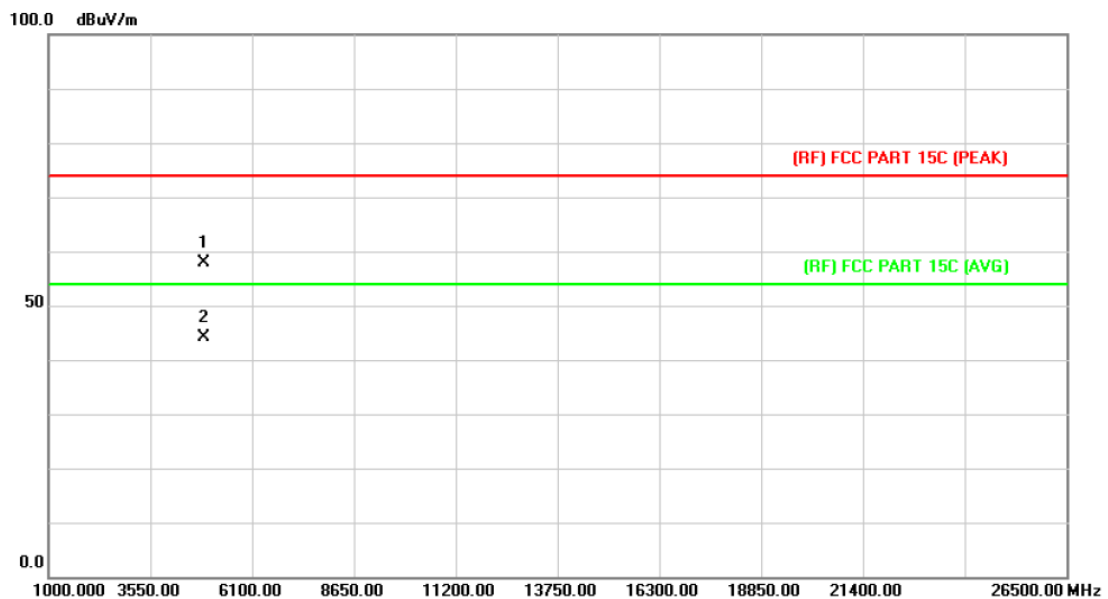
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.157	30.02	14.03	44.05	54.00	-9.95	AVG
2		4903.898	43.68	14.03	57.71	74.00	-16.29	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4904.246	43.76	14.03	57.79	74.00	-16.21	peak
2	*	4904.468	30.07	14.03	44.10	54.00	-9.90	AVG

Emission Level= Read Level+ Correct Factor



## 6. Restricted Bands Requirement

### 6.1 Test Standard and Limit

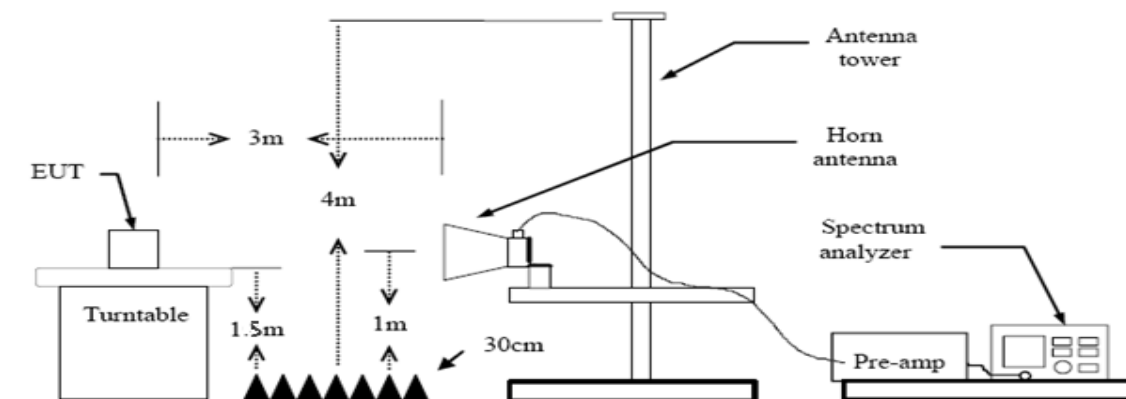
#### 5.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

#### 5.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

### 6.2 Test Setup



### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit

Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

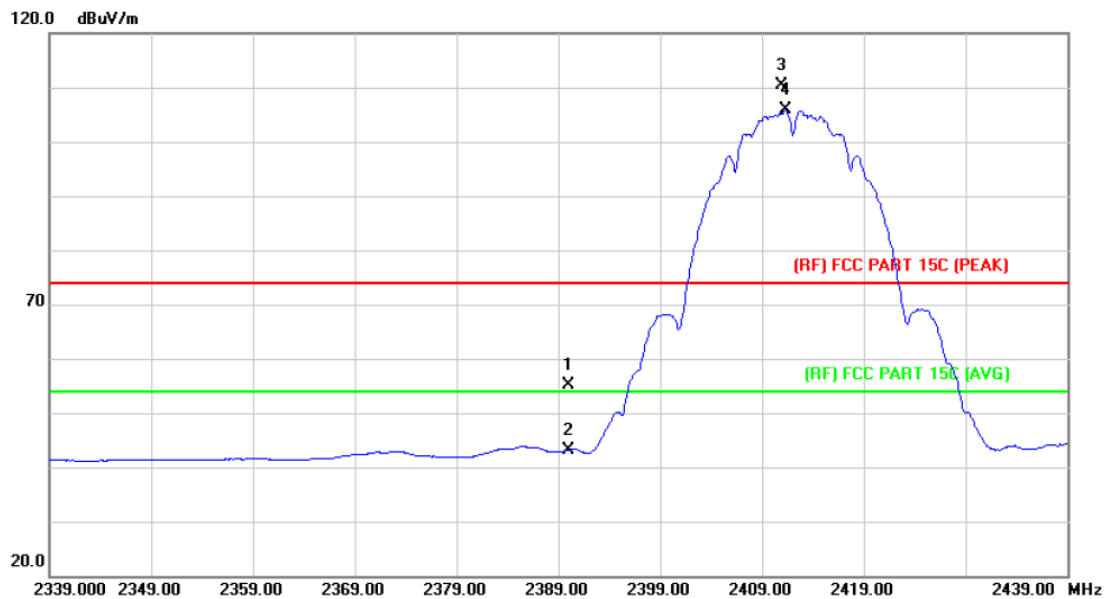
#### 6.5 Test Data

Please see the next page.



**(1) Radiation Test**

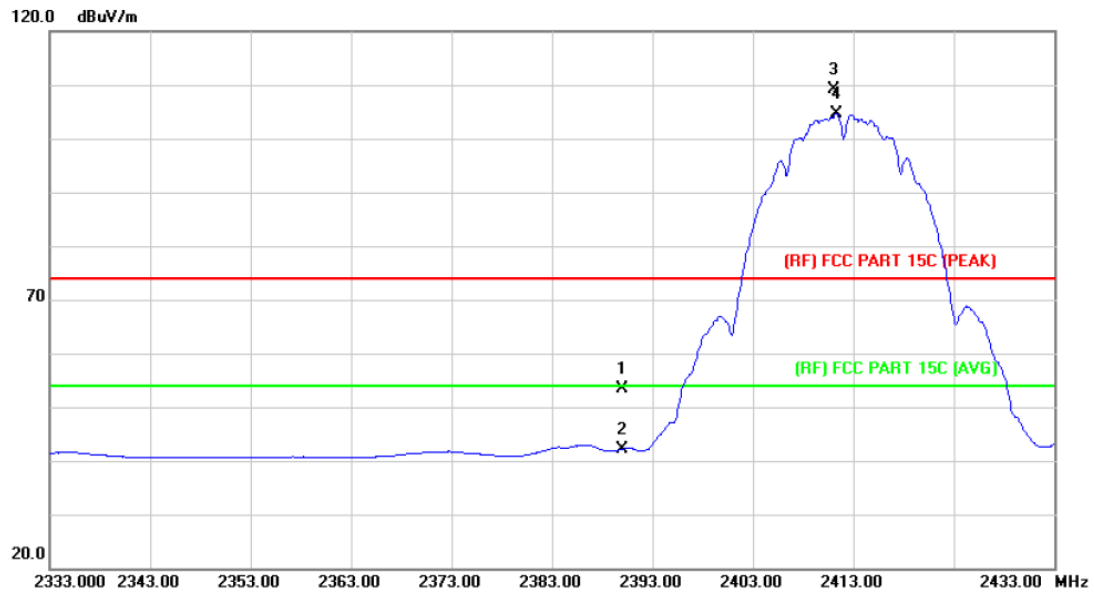
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	54.43	0.77	55.20	74.00	-18.80	peak
2		2390.000	42.37	0.77	43.14	54.00	-10.86	AVG
3	X	2410.900	109.53	0.86	110.39	Fundamental Frequency		peak
4	*	2411.300	104.90	0.86	105.76	Fundamental Frequency		AVG

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	N/A		

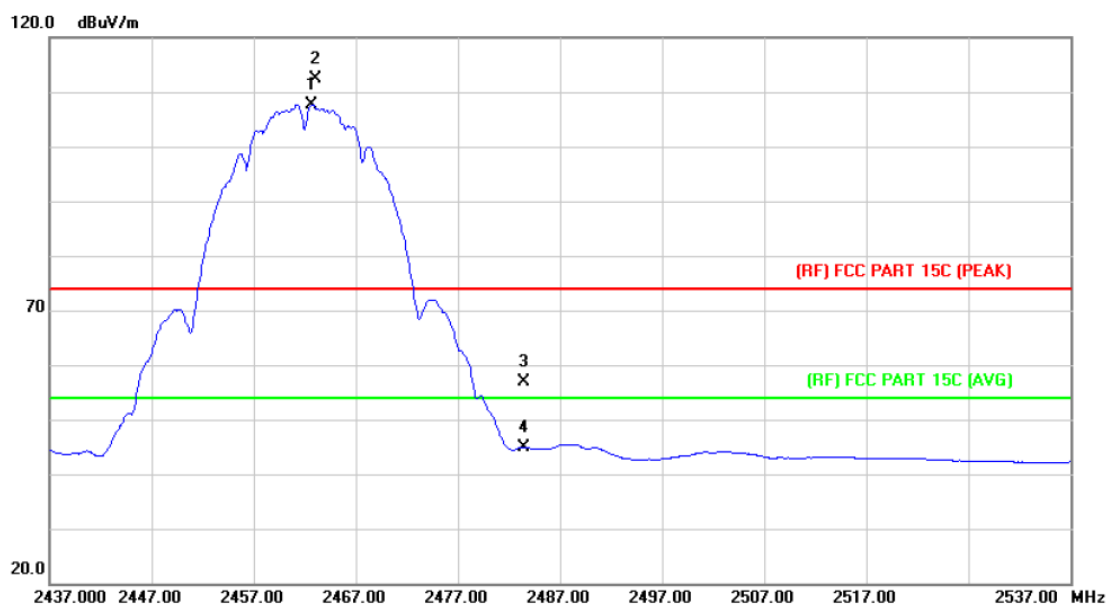


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	52.66	0.77	53.43	74.00	-20.57	peak
2		2390.000	41.42	0.77	42.19	54.00	-11.81	AVG
3	X	2411.000	108.33	0.86	109.19	Fundamental Frequency		peak
4	*	2411.300	103.70	0.86	104.56	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor



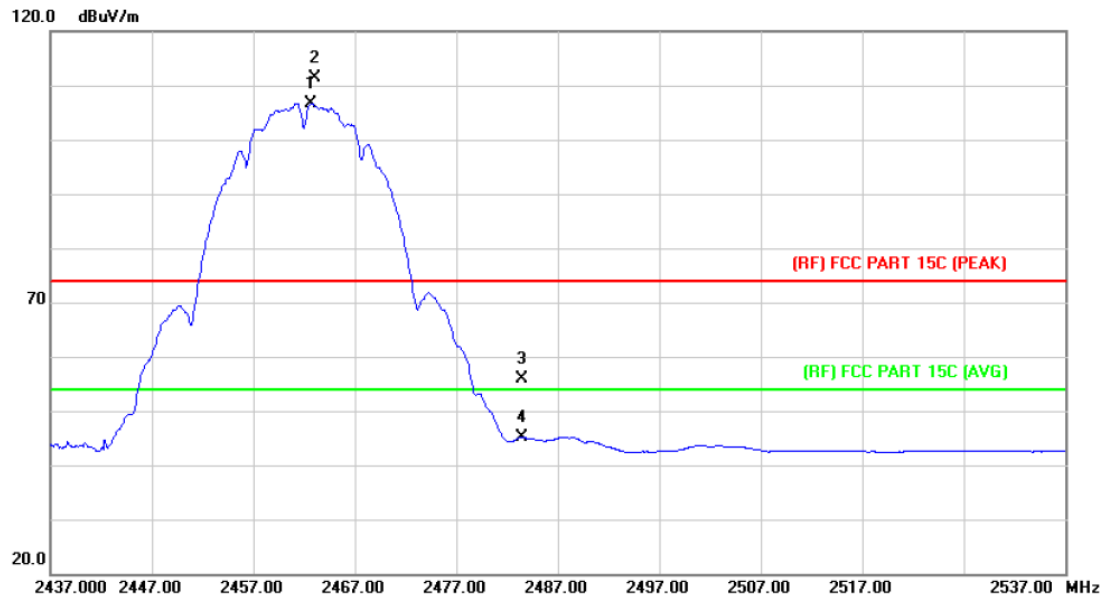
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	106.64	1.08	107.72	Fundamental Frequency		AVG
2	X	2463.100	111.29	1.08	112.37	Fundamental Frequency		peak
3		2483.500	55.77	1.17	56.94	74.00	-17.06	peak
4		2483.500	43.78	1.17	44.95	54.00	-9.05	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		

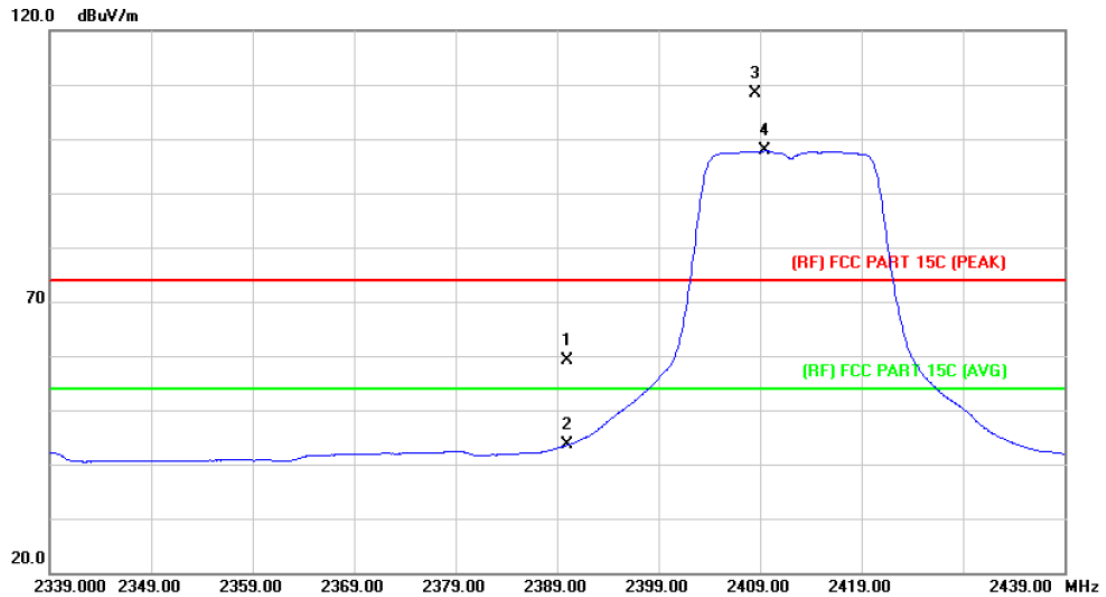


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	105.64	1.08	106.72	Fundamental Frequency		AVG
2	X	2463.100	110.33	1.08	111.41	Fundamental Frequency		peak
3		2483.500	54.83	1.17	56.00	74.00	-18.00	peak
4		2483.500	43.90	1.17	45.07	54.00	-8.93	AVG

Emission Level= Read Level+ Correct Factor



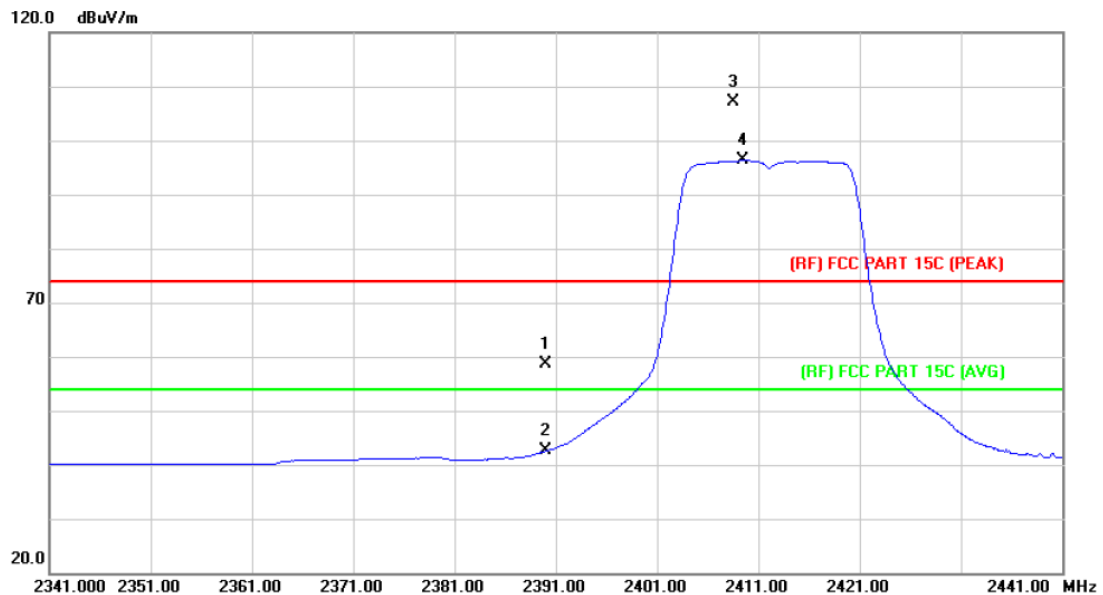
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	58.29	0.77	59.06	74.00	-14.94	peak
2		2390.000	42.77	0.77	43.54	54.00	-10.46	AVG
3	X	2408.600	107.64	0.85	108.49	Fundamental Frequency		peak
4	*	2409.500	96.97	0.85	97.82	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		

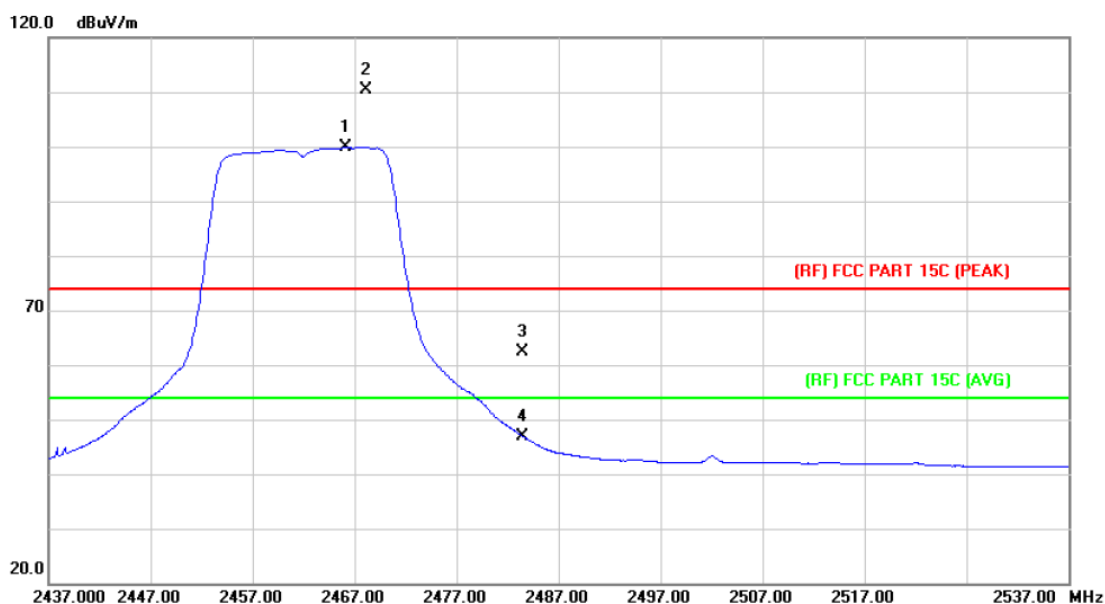


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	57.95	0.77	58.72	74.00	-15.28 peak
2		2390.000	41.74	0.77	42.51	54.00	-11.49 AVG
3	X	2408.500	106.24	0.85	107.09	Fundamental Frequency	peak
4	*	2409.500	95.61	0.85	96.46	Fundamental Frequency	AVG

Emission Level= Read Level+ Correct Factor



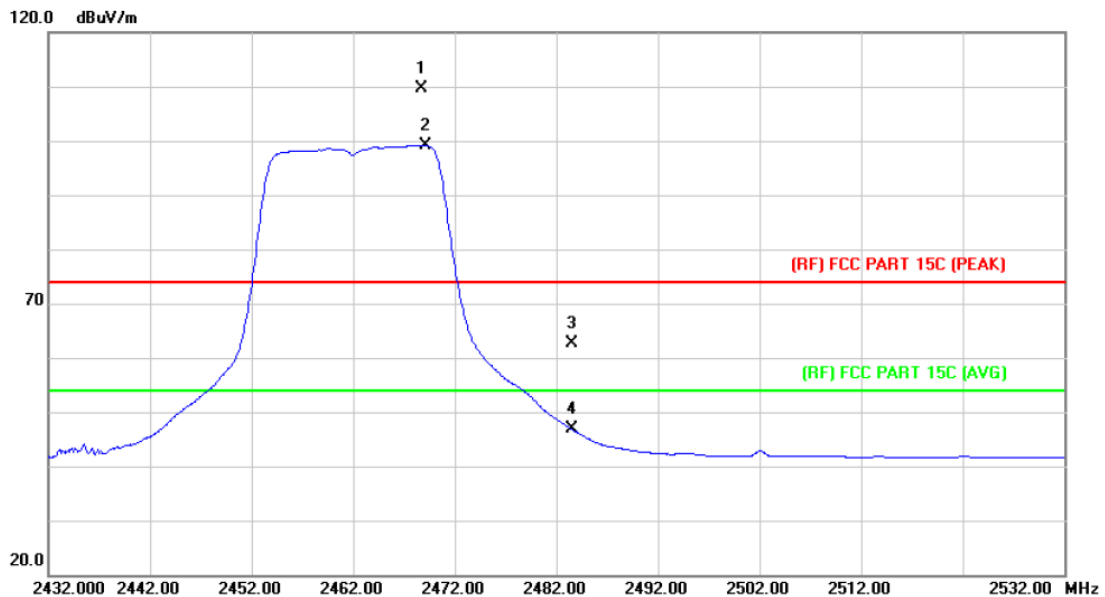
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2466.100	98.72	1.09	99.81	Fundamental Frequency		AVG
2	X	2468.200	109.21	1.11	110.32	Fundamental Frequency		peak
3		2483.500	61.24	1.17	62.41	74.00	-11.59	peak
4		2483.500	45.72	1.17	46.89	54.00	-7.11	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		

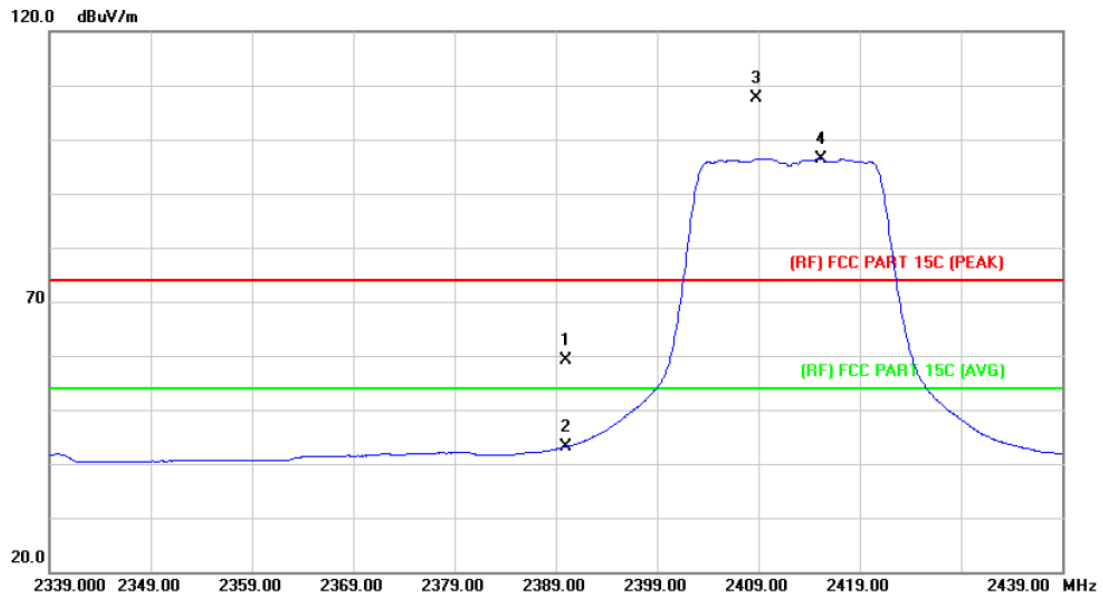


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2468.700	108.52	1.11	109.63	Fundamental Frequency		peak
2	*	2469.100	97.98	1.11	99.09	Fundamental Frequency		AVG
3		2483.500	61.37	1.17	62.54	74.00	-11.46	peak
4		2483.500	45.67	1.17	46.84	54.00	-7.16	AVG

Emission Level= Read Level+ Correct Factor



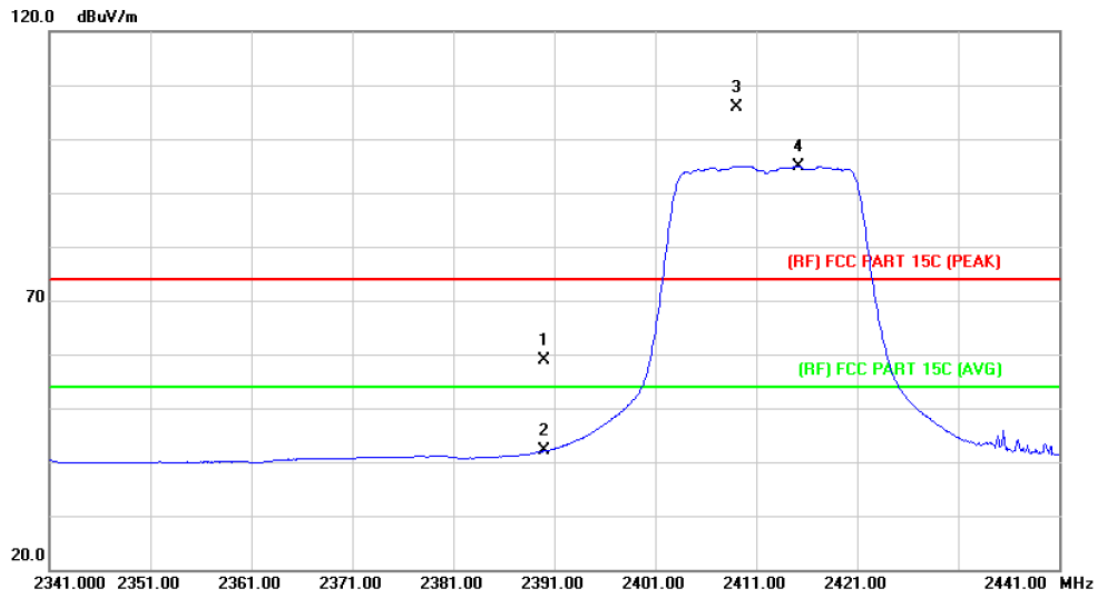
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	58.37	0.77	59.14	74.00	-14.86	peak
2		2390.000	42.36	0.77	43.13	54.00	-10.87	AVG
3	X	2408.800	106.89	0.85	107.74	Fundamental Frequency		peak
4	*	2415.200	95.59	0.88	96.47	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	N/A		

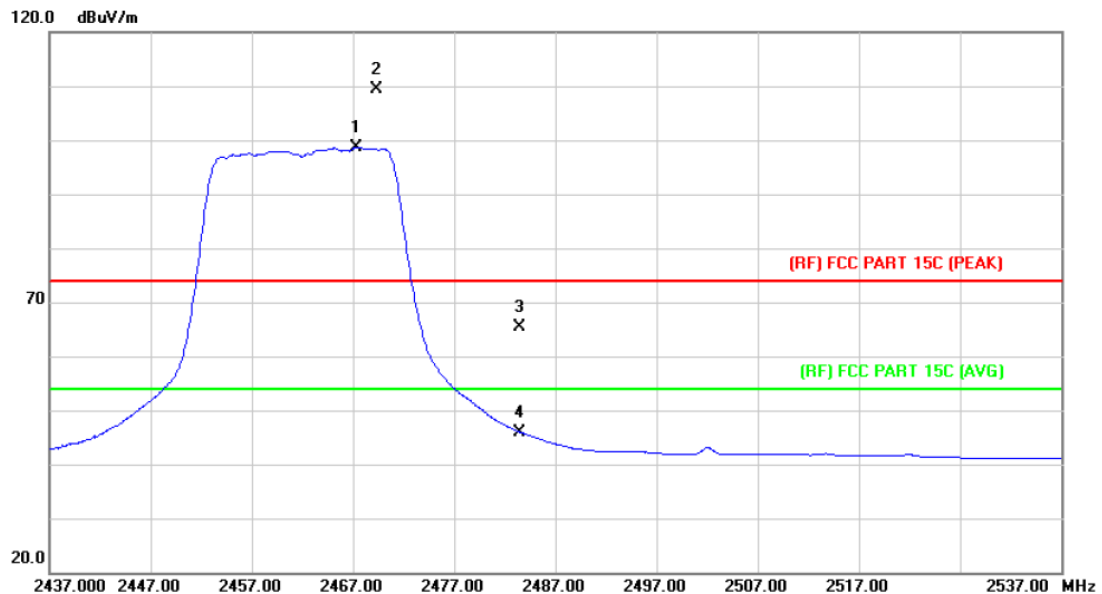


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	58.07	0.77	58.84	74.00	-15.16 peak
2		2390.000	41.24	0.77	42.01	54.00	-11.99 AVG
3	X	2409.000	105.14	0.85	105.99	Fundamental Frequency	peak
4	*	2415.200	94.07	0.88	94.95	Fundamental Frequency	AVG

Emission Level= Read Level+ Correct Factor



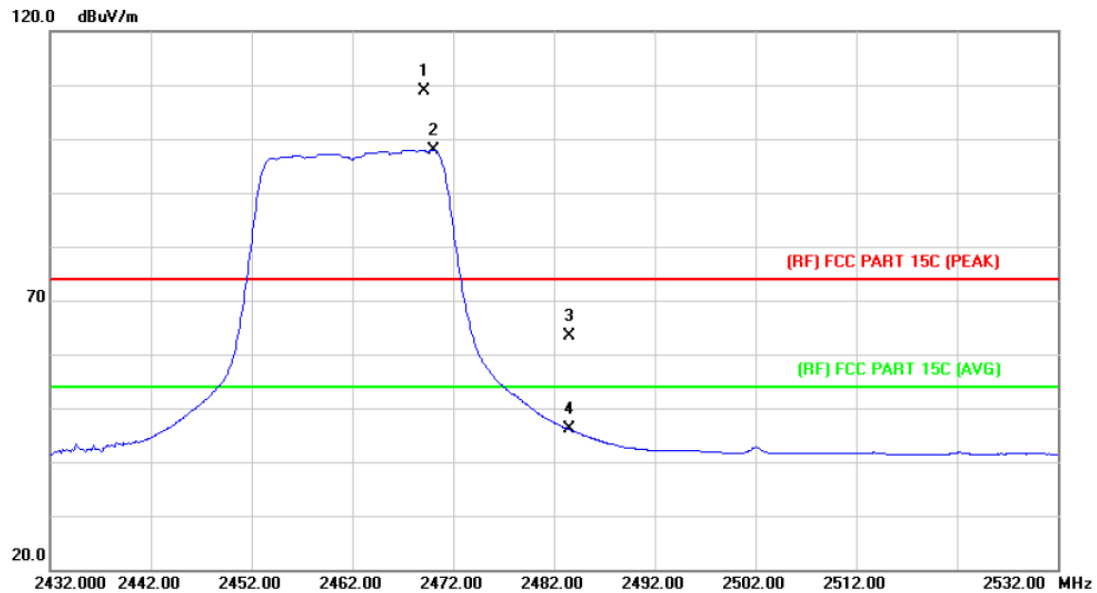
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2467.300	97.48	1.10	98.58	Fundamental Frequency		AVG
2	X	2469.300	108.33	1.11	109.44	Fundamental Frequency		peak
3		2483.500	64.30	1.17	65.47	74.00	-8.53	peak
4		2483.500	44.80	1.17	45.97	54.00	-8.03	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		

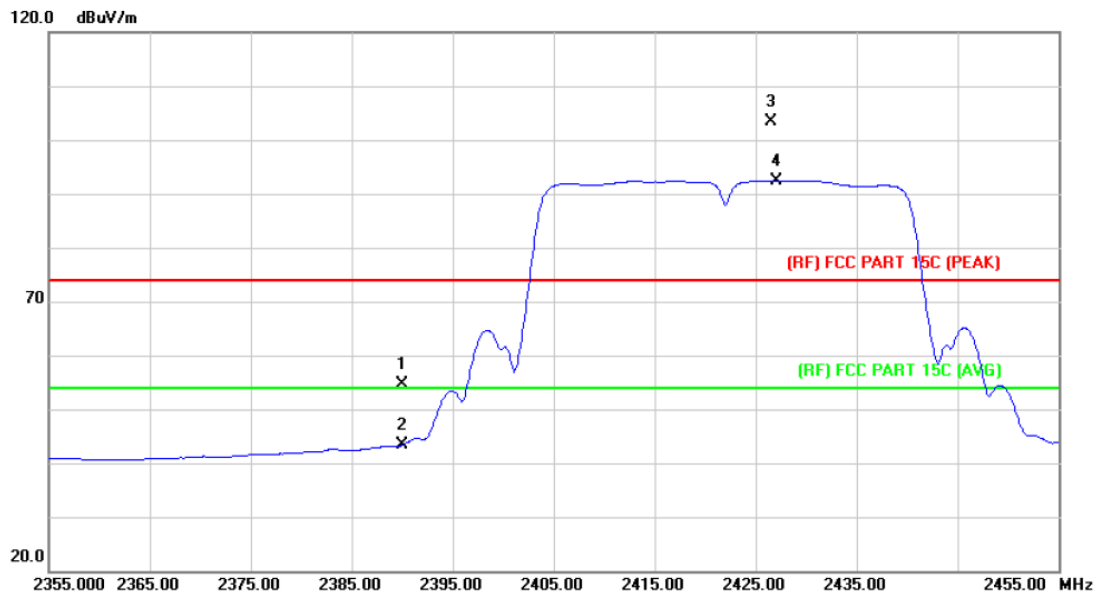


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2469.100	107.67	1.11	108.78	Fundamental Frequency		peak
2	*	2470.000	96.87	1.11	97.98	Fundamental Frequency		AVG
3		2483.500	62.31	1.17	63.48	74.00	-10.52	peak
4		2483.500	44.86	1.17	46.03	54.00	-7.97	AVG

Emission Level= Read Level+ Correct Factor



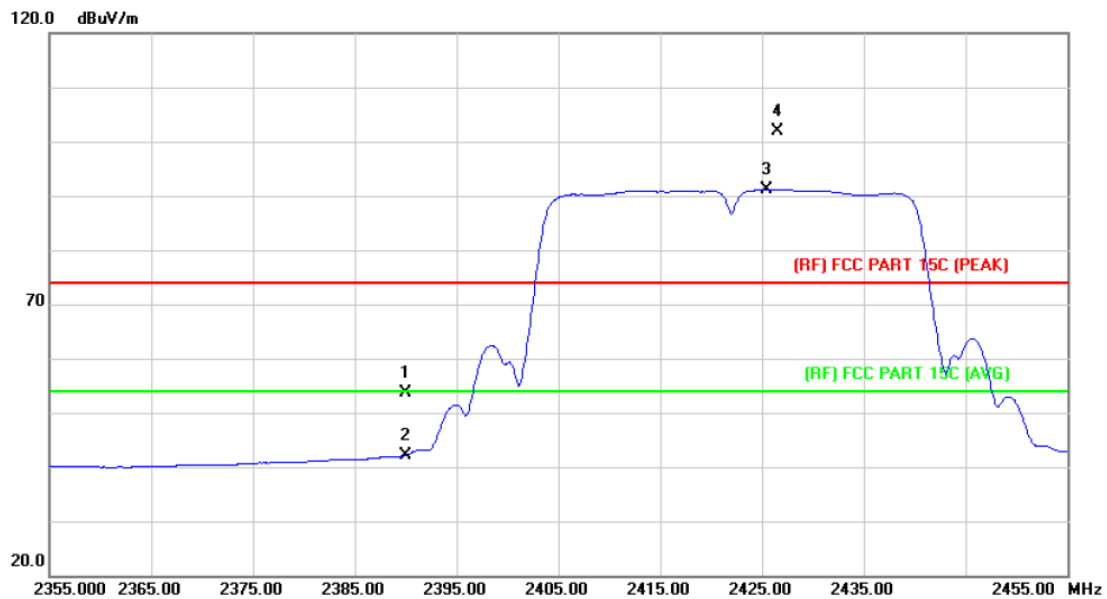
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	53.82	0.77	54.59	74.00	-19.41	peak
2		2390.000	42.54	0.77	43.31	54.00	-10.69	AVG
3	X	2426.500	102.33	0.93	103.26	Fundamental Frequency		peak
4	*	2427.100	91.52	0.93	92.45	Fundamental Frequency		AVG

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		

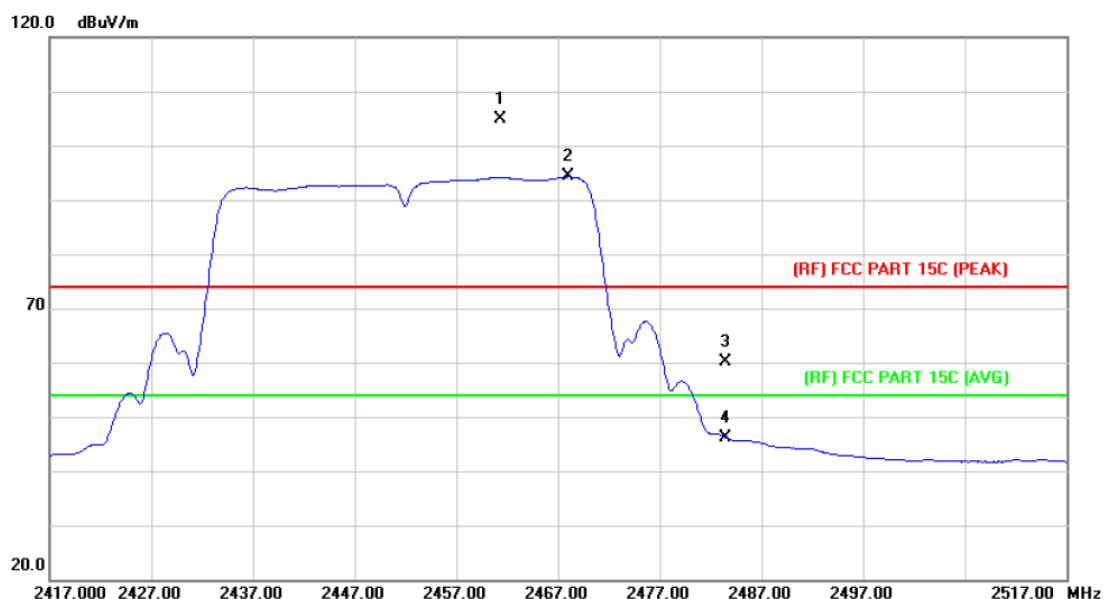


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	52.96	0.77	53.73	74.00	-20.27	peak
2		2390.000	41.38	0.77	42.15	54.00	-11.85	AVG
3	*	2425.500	90.24	0.93	91.17	Fundamental Frequency		AVG
4	X	2426.600	100.98	0.93	101.91	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor



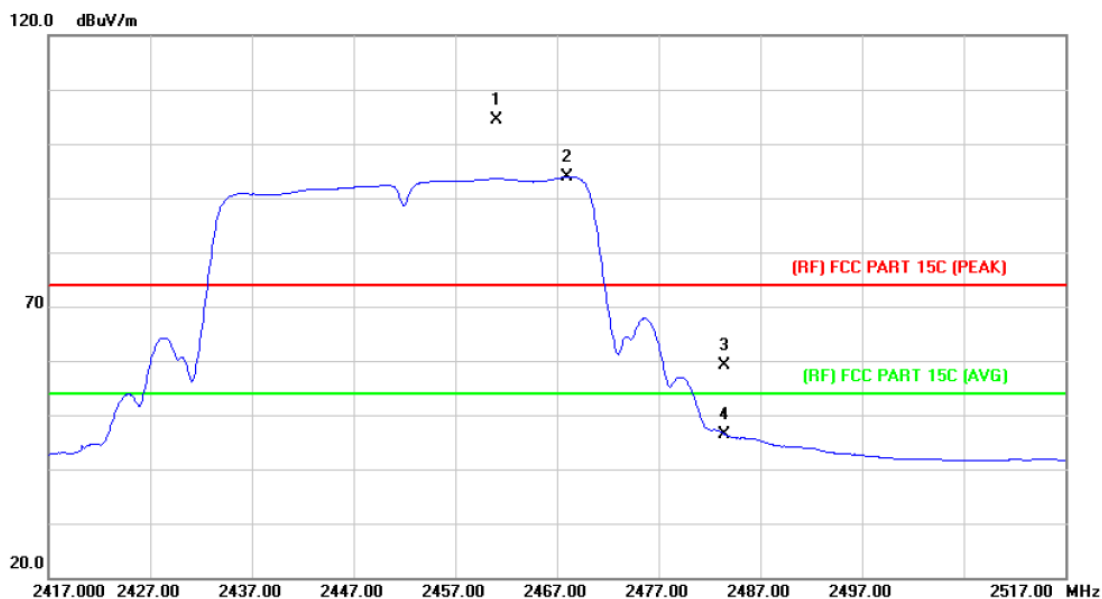
<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.300	103.78	1.07	104.85	Fundamental Frequency		peak
2	*	2468.000	93.16	1.11	94.27	Fundamental Frequency		AVG
3		2483.500	58.92	1.17	60.09	74.00	-13.91	peak
4		2483.500	45.01	1.17	46.18	54.00	-7.82	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		



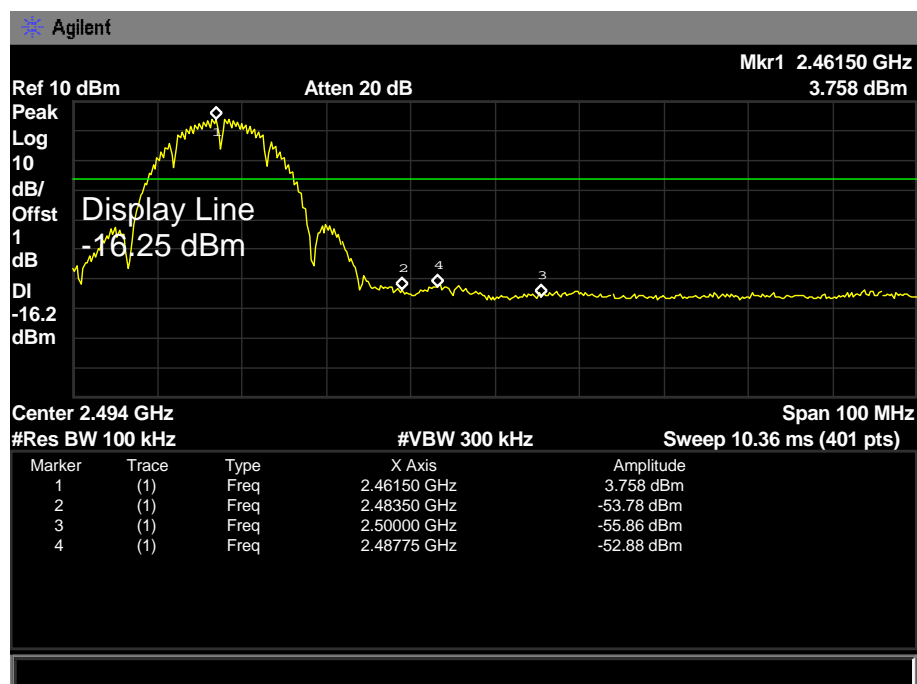
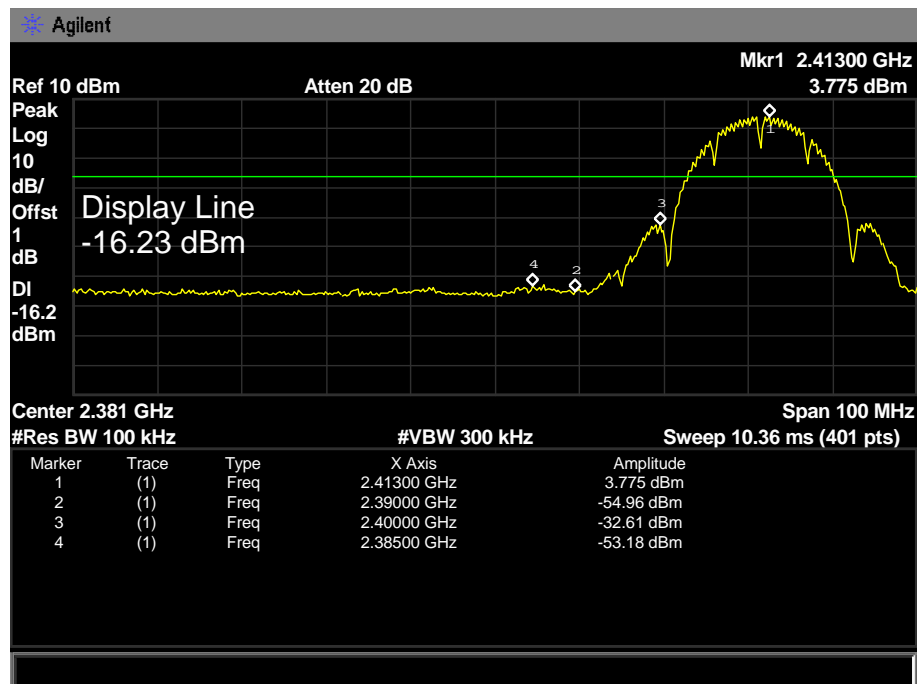
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	X	2461.100	103.25	1.06	104.31	Fundamental Frequency		peak
2	*	2468.000	92.77	1.11	93.88	Fundamental Frequency		AVG
3		2483.500	58.01	1.17	59.18	74.00	-14.82	peak
4		2483.500	45.31	1.17	46.48	54.00	-7.52	AVG

Emission Level= Read Level+ Correct Factor

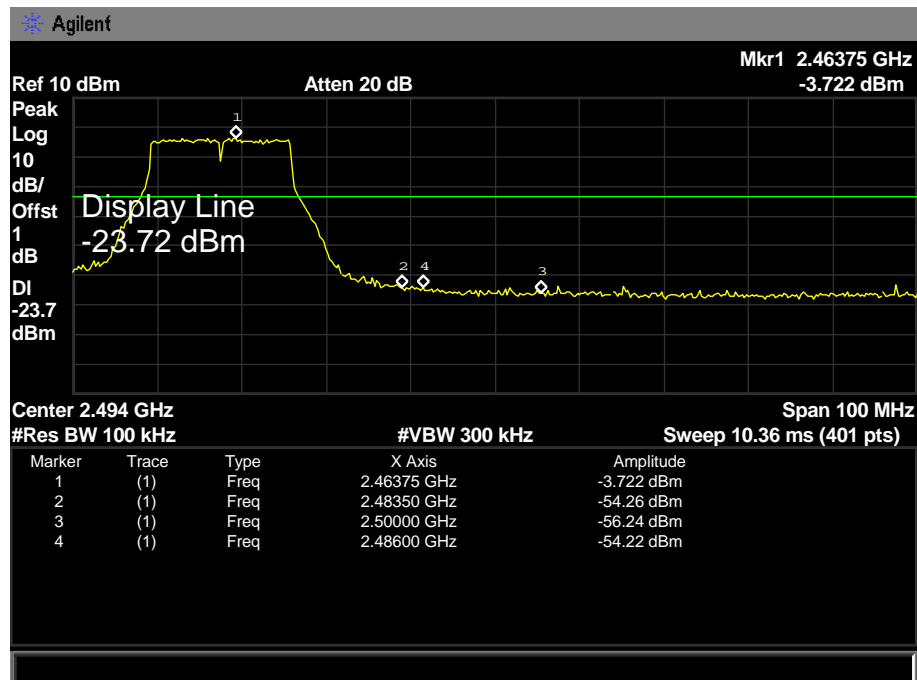
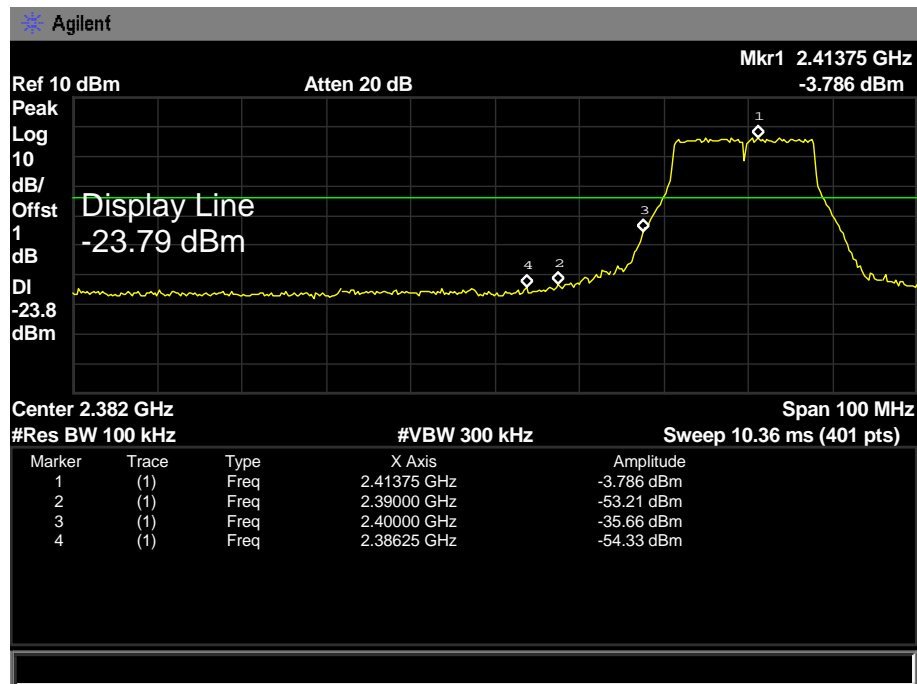


## (2) Conducted Test

EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		

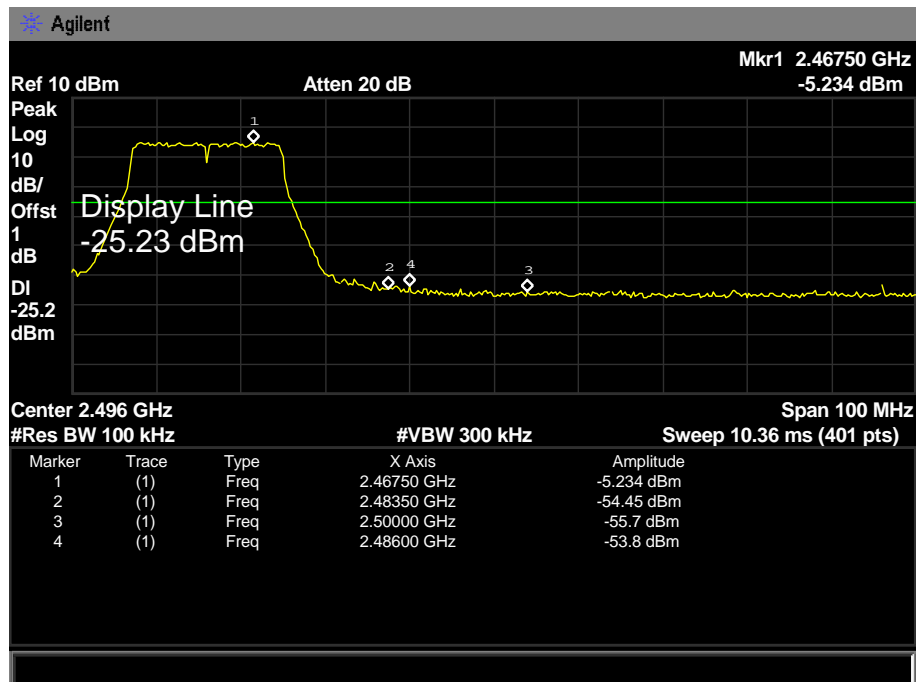
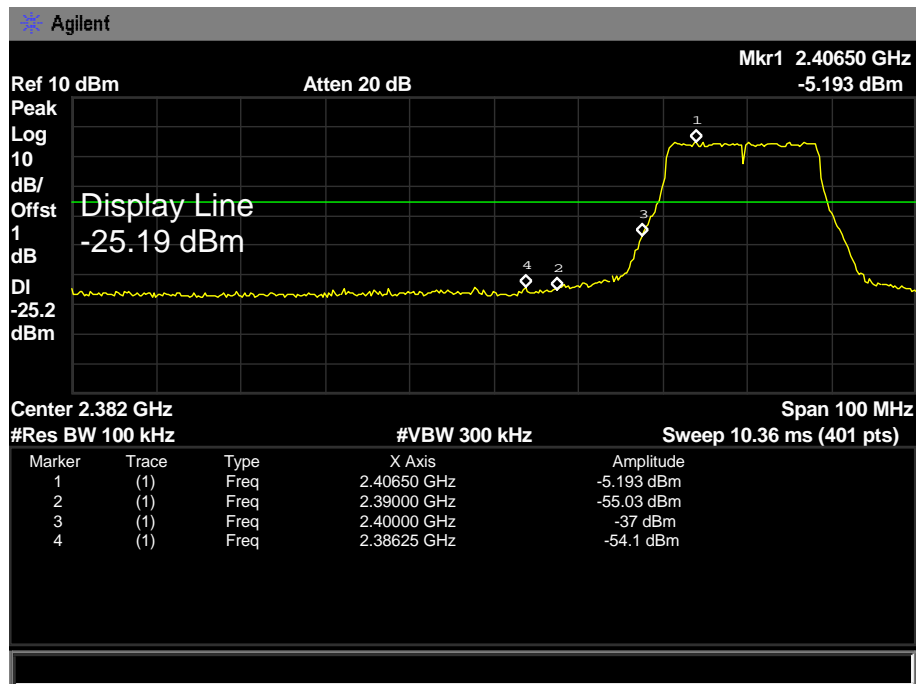


EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		

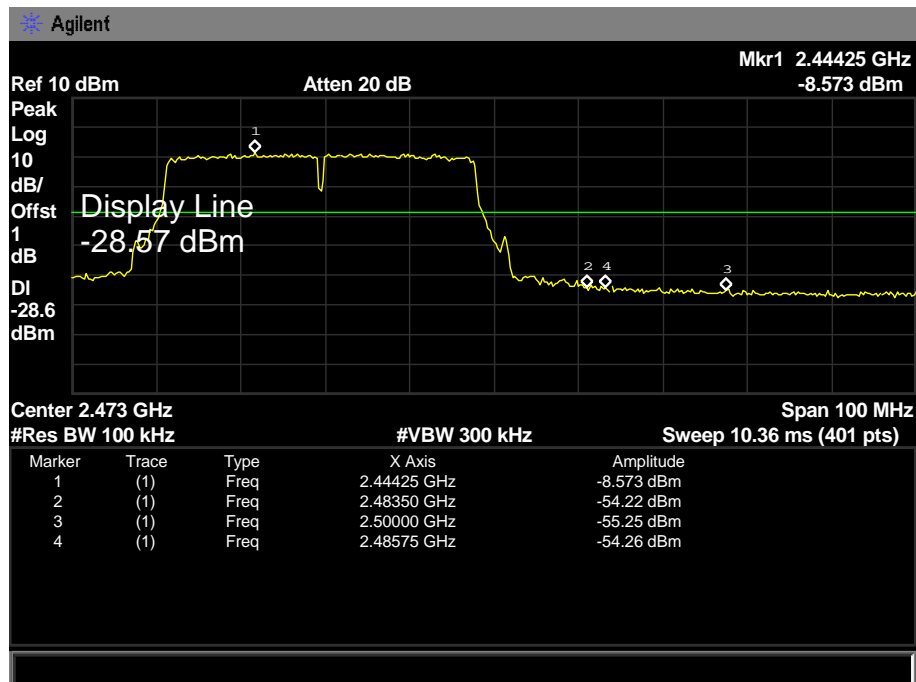
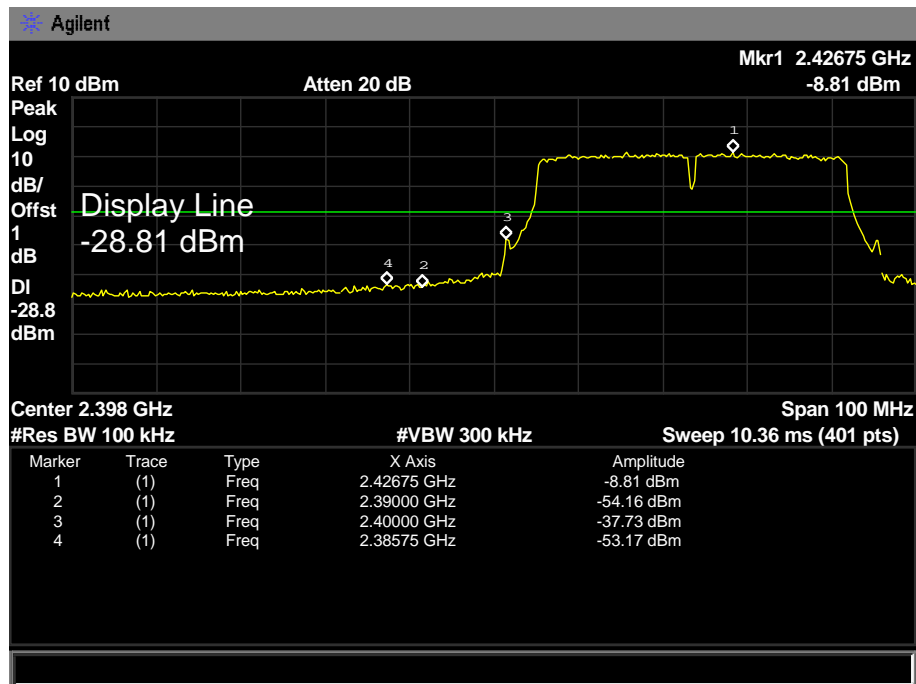




<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	The EUT is programed in continuously transmitting mode		



EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		





## 7. Bandwidth Test

### 7.1 Test Standard and Limit

#### 7.1.1 Test Standard

FCC Part 15.247 (a)(2)

#### 7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\geq 500$ KHz (6dB bandwidth)	2400~2483.5

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

### 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

## 7.5 Test Data

EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.093	15.0246	>=0.5
2437	10.100	15.0219	
2462	10.088	15.0098	

802.11B Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/Offst

1

dB

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

15.0246 MHz

Transmit Freq Error

5.770 kHz

x dB Bandwidth

10.093 MHz

Occ BW % Pwr

99.00 %

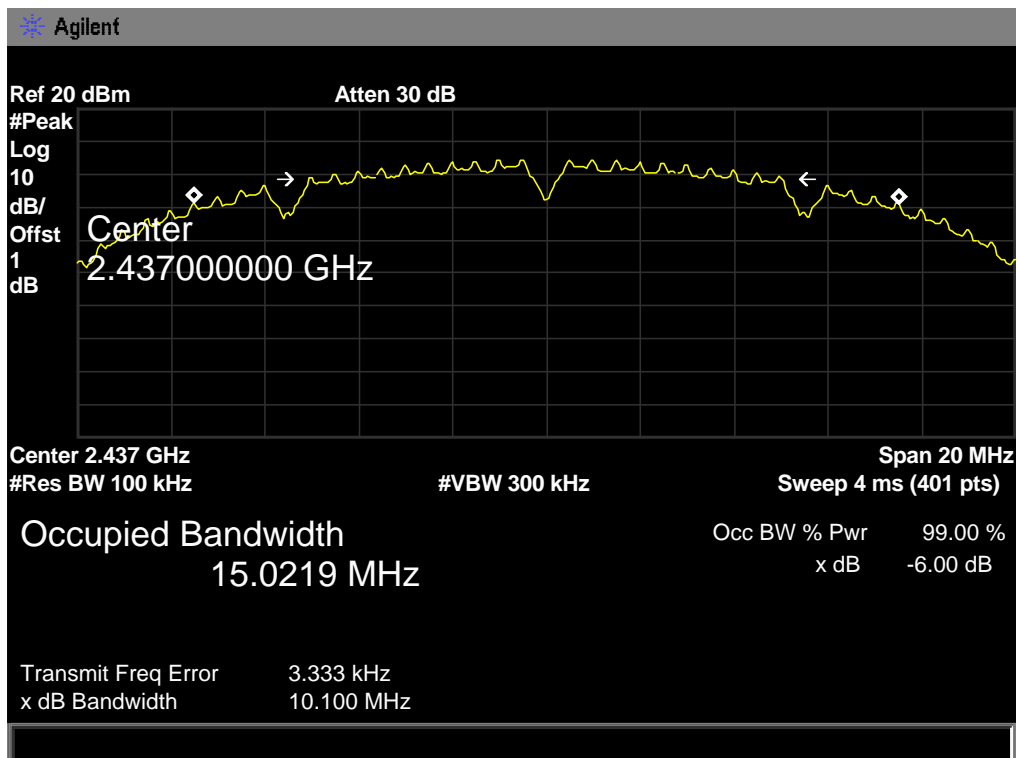
x dB

-6.00 dB



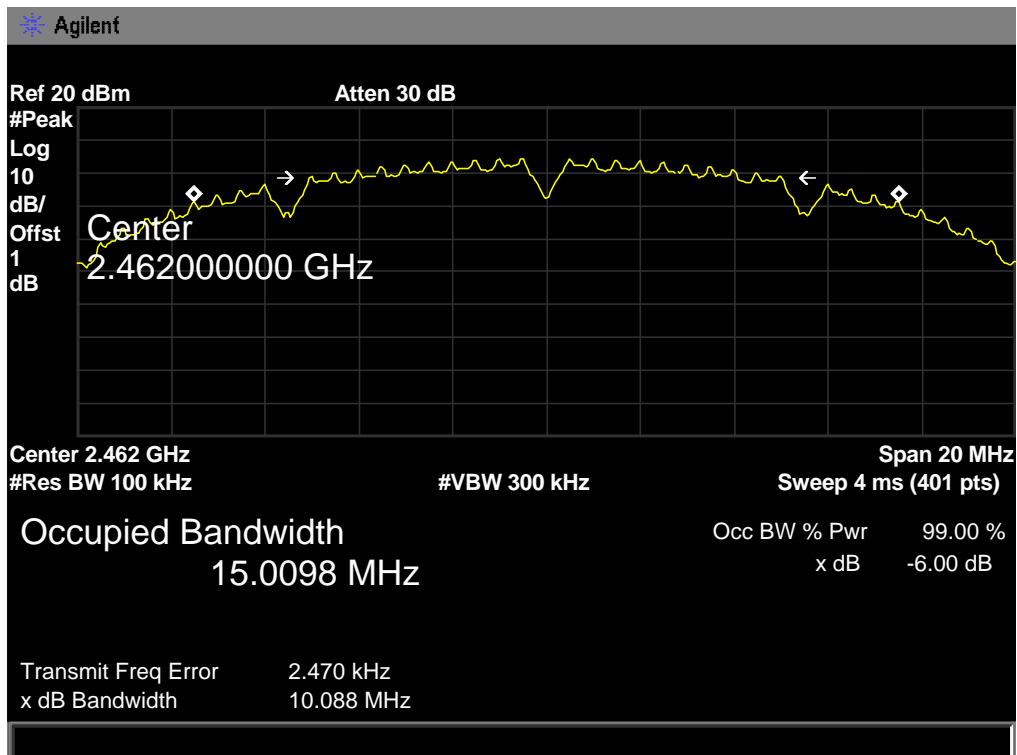
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.591	16.4702	>=0.5
2437	16.579	16.4552	
2462	16.566	16.4547	

802.11G Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

16.4702 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

-35.112 kHz

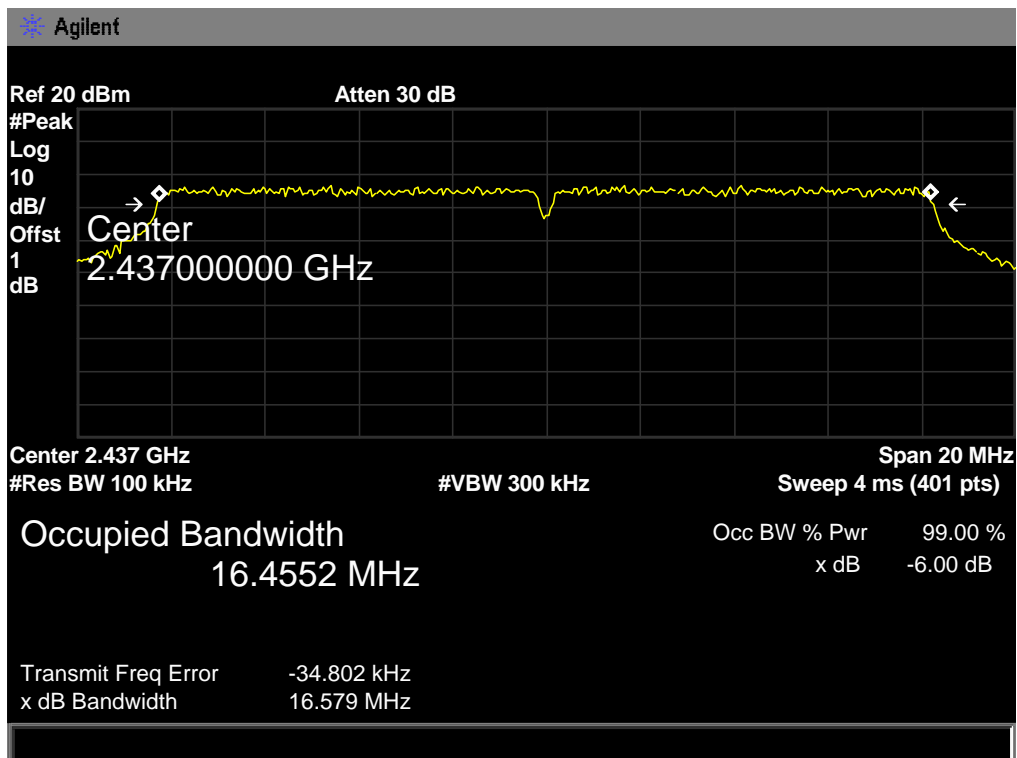
x dB Bandwidth

16.591 MHz



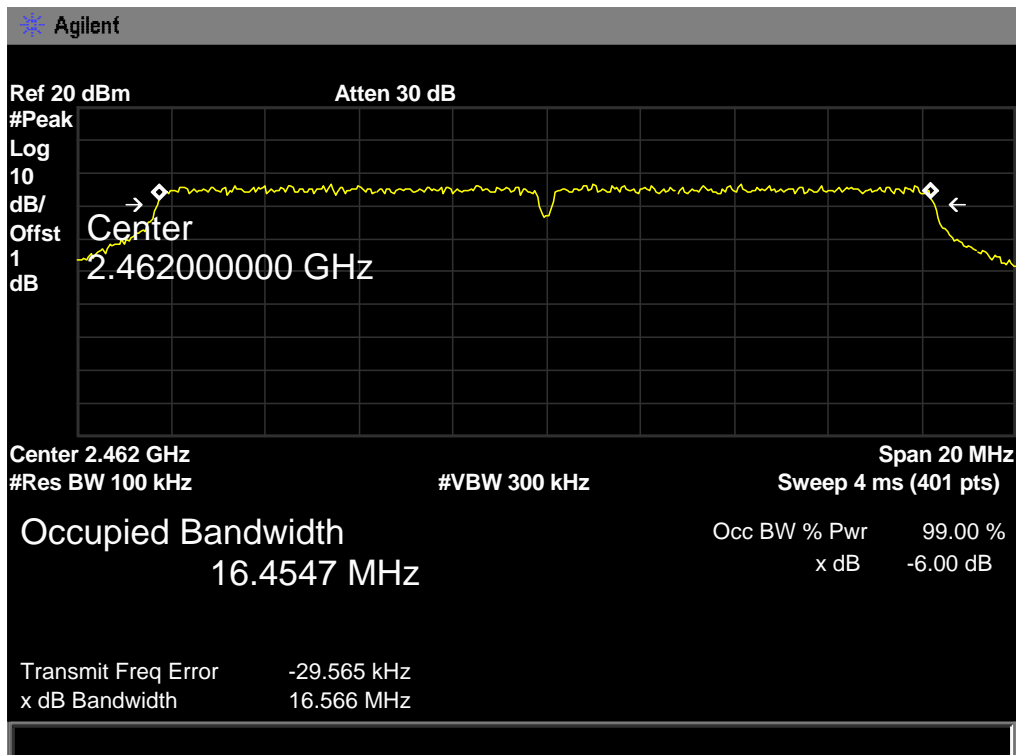
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.832	17.6430	>=0.5
2437	17.836	17.6604	
2462	17.832	17.6535	

802.11N(HT20) Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

17.6430 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

-15.423 kHz

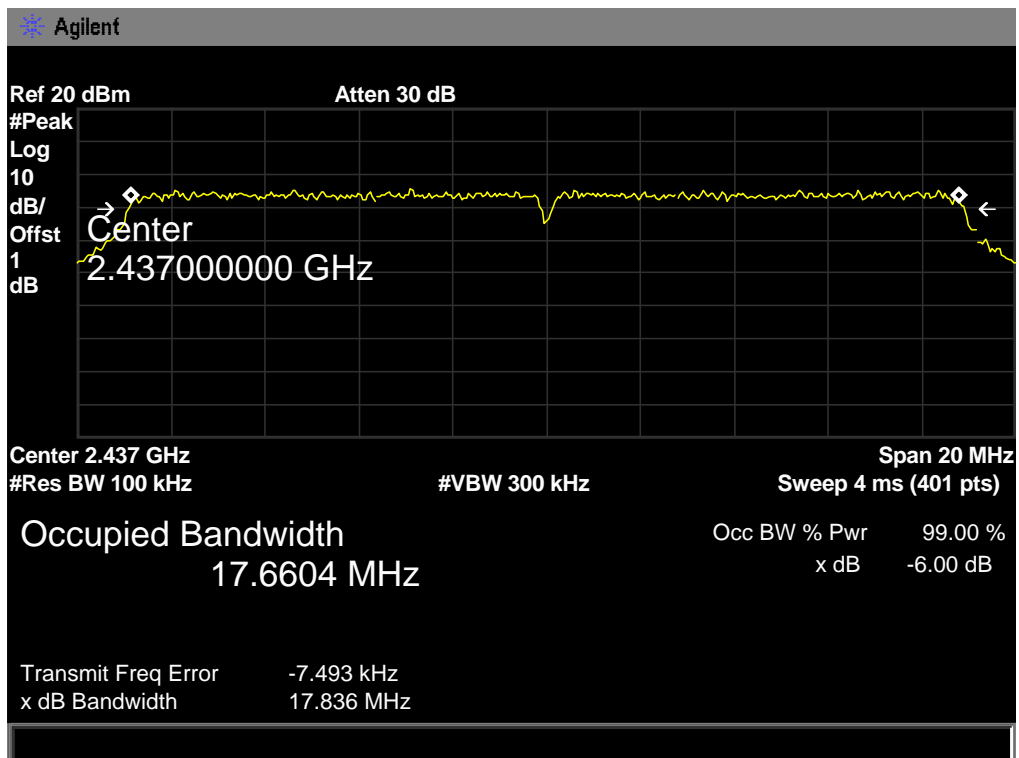
x dB Bandwidth

17.832 MHz



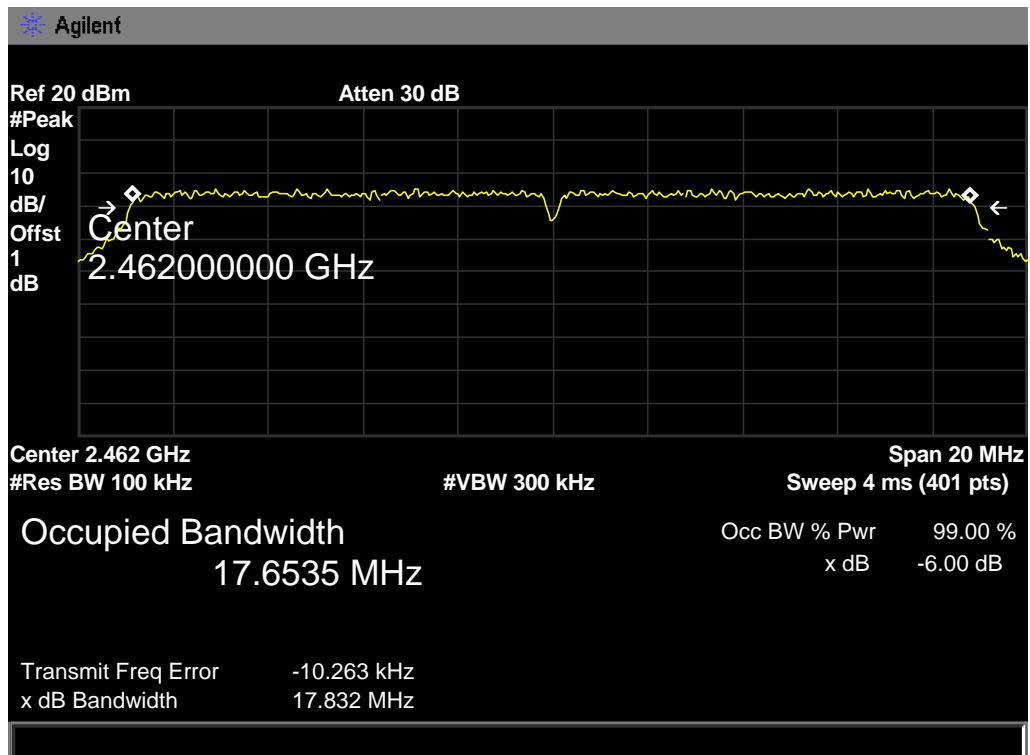
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.484	35.9744	>=0.5
2437	36.479	35.9561	
2452	36.478	35.9788	
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.422000000 GHz

Center 2.422 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 4.144 ms (401 pts)

Span 40 MHz

Occupied Bandwidth

35.9744 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

-3.410 kHz

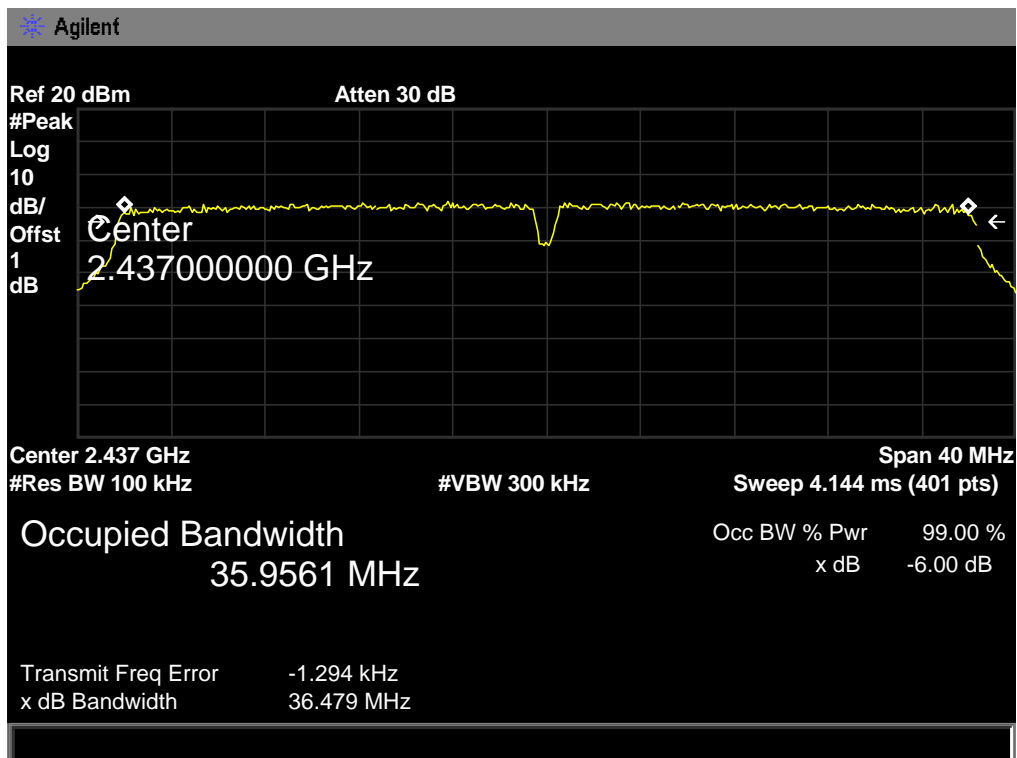
x dB Bandwidth

36.484 MHz



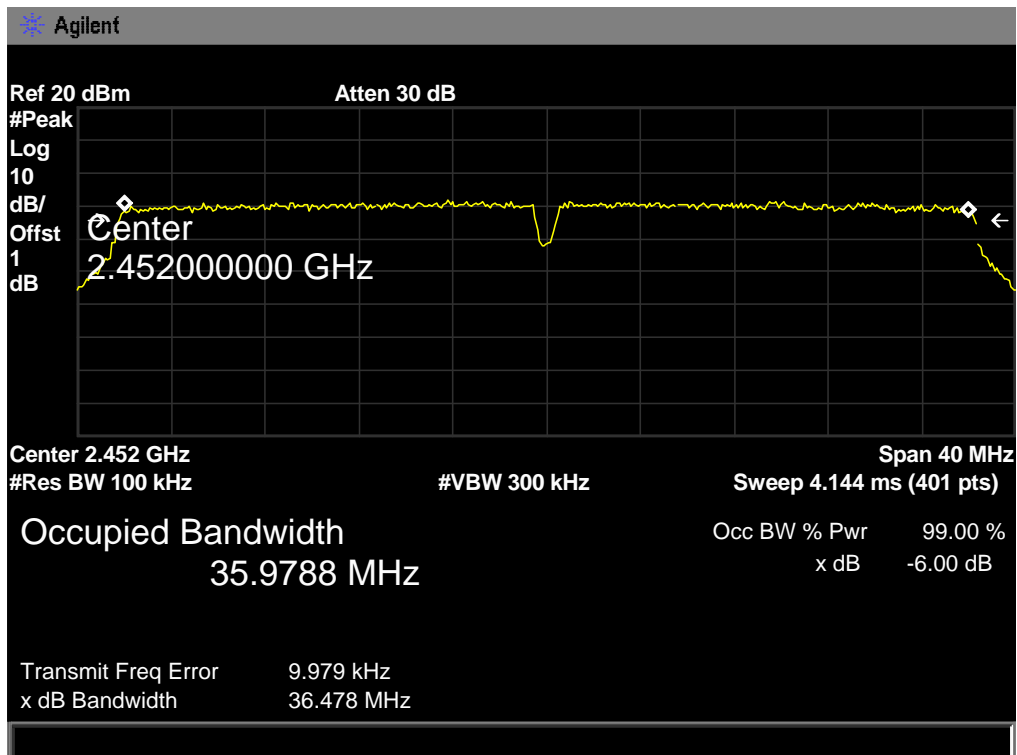
## 802.11N(HT40) Mode

2437 MHz



## 802.11N(HT40) Mode

2452 MHz



## 8. Peak Output Power Test

### 8.1 Test Standard and Limit

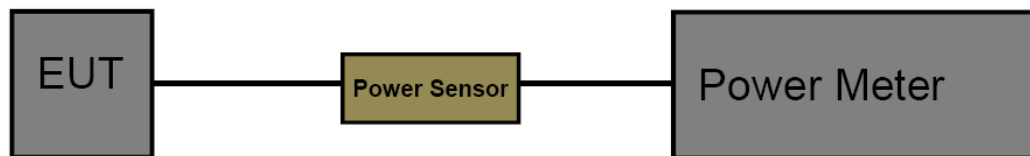
#### 8.1.1 Test Standard

FCC Part 15.247 (b)

#### 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

### 8.2 Test Setup



### 8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

### 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.



## 8.5 Test Data

<b>EUT:</b>	Nexersys Console	<b>Model Name :</b>	NXST22
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	18.30	30
	2437	18.60	
	2462	18.44	
802.11g	2412	16.68	
	2437	16.63	
	2462	16.52	
802.11n (HT20)	2412	15.58	
	2437	15.84	
	2462	15.81	
802.11n (HT40)	2422	12.73	
	2437	12.82	
	2452	12.84	

## 9. Power Spectral Density Test

### 9.1 Test Standard and Limit

#### 9.1.1 Test Standard

FCC Part 15.247 (e)

#### 9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

### 9.2 Test Setup



### 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

### 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.



## 9.5 Test Data

EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-14.63	8	
2437	-14.66		
2462	-14.52		
802.11B Mode			
2412 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.41272 GHz

-14.63 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.412720000 GHz

-14.63 dBm

M1 S2

S3 FC

AA

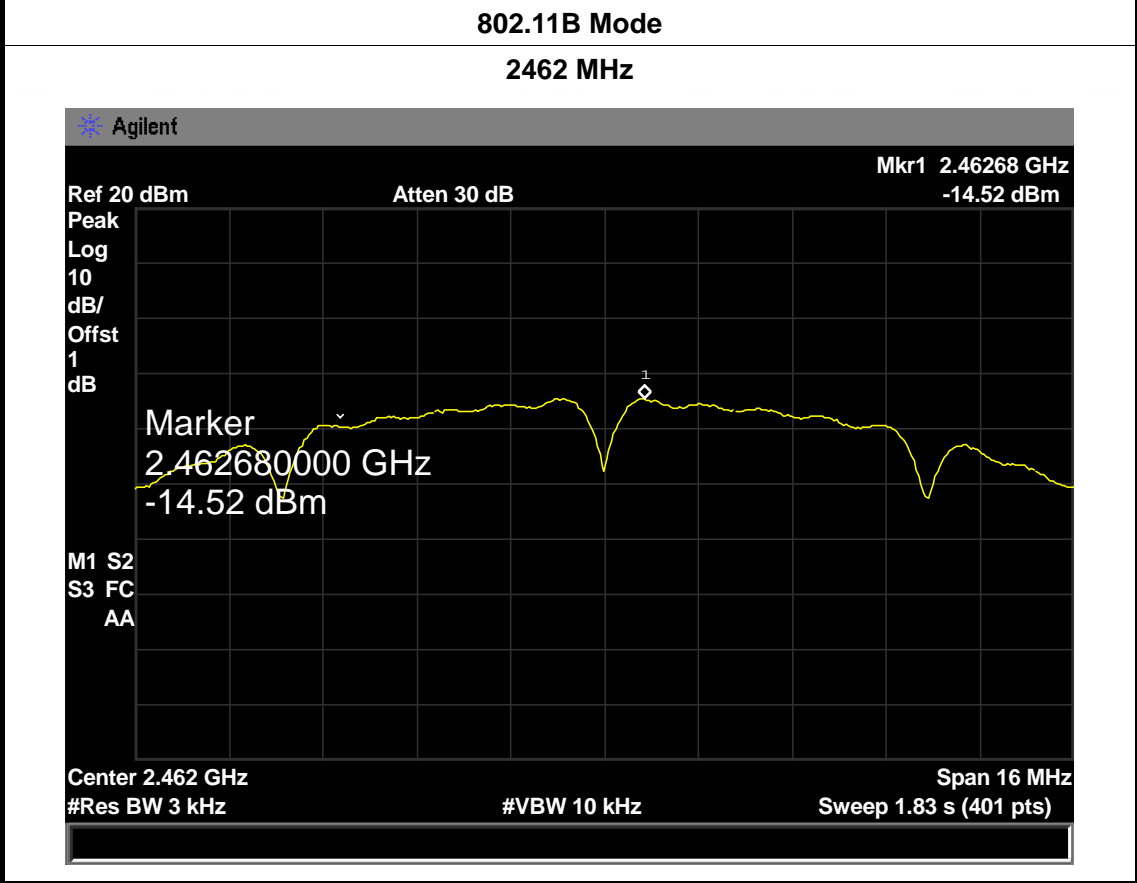
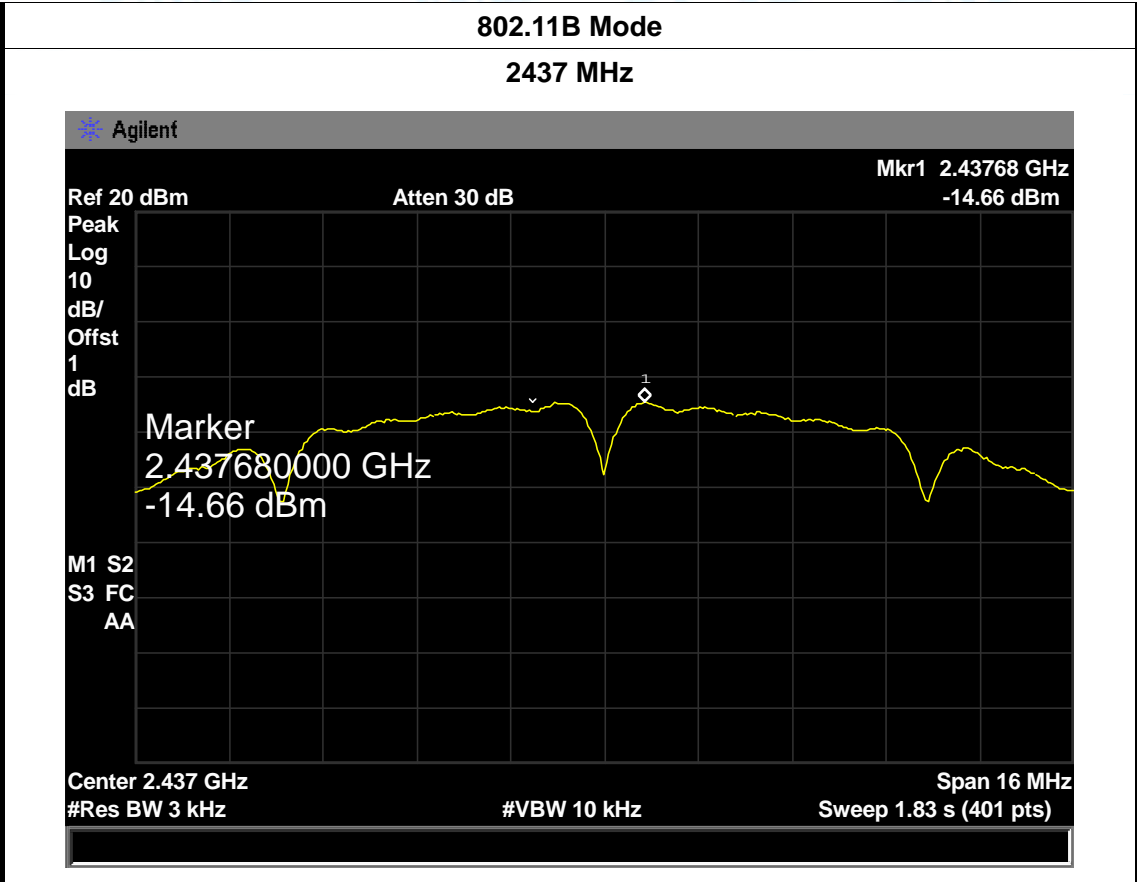
Center 2.412 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 16 MHz

Sweep 1.83 s (401 pts)





EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-17.86	8	
2437	-17.66		
2462	-17.67		
802.11G Mode			
2412 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.4110625 GHz  
-17.86 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.411062500 GHz

-17.86 dBm

M1 S2

S3 FC

AA

Center 2.412 GHz

#Res BW 3 kHz

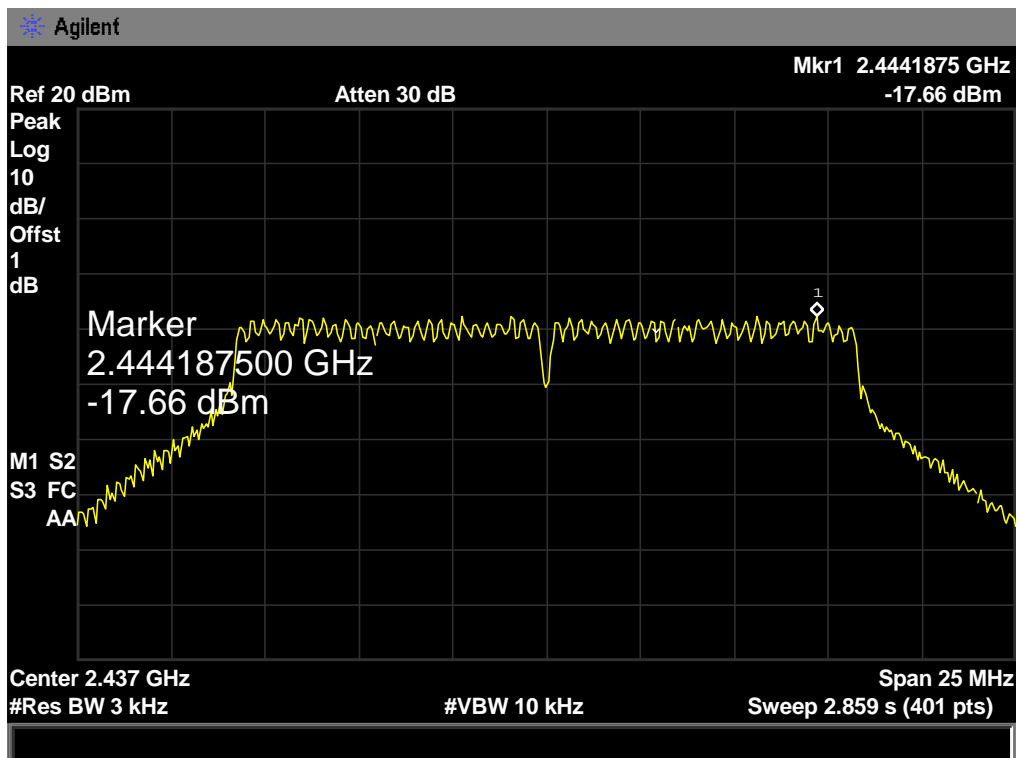
#VBW 10 kHz

Sweep 2.859 s (401 pts)

Span 25 MHz

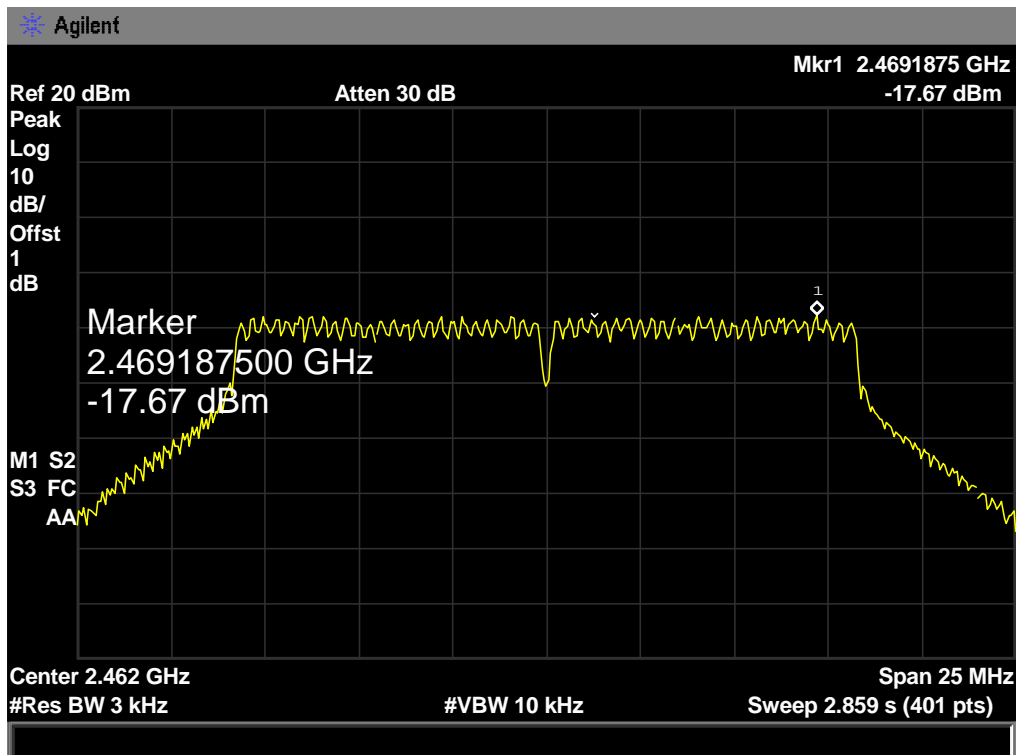
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz





EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-18.58	8	
2437	-18.75		
2462	-17.99		
802.11N(HT20) Mode			
2412 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.4098400 GHz  
-18.58 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.409840000 GHz

-18.58 dBm

M1 S2

S3 FC

AA

Center 2.412 GHz

#Res BW 3 kHz

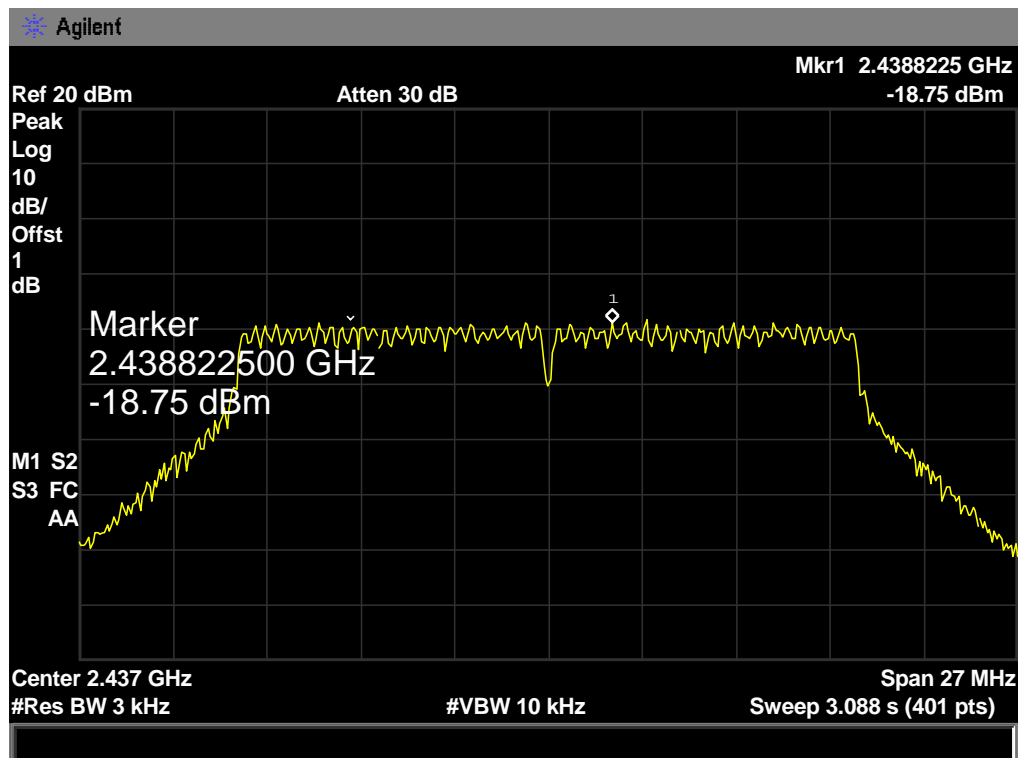
#VBW 10 kHz

Span 27 MHz

Sweep 3.088 s (401 pts)

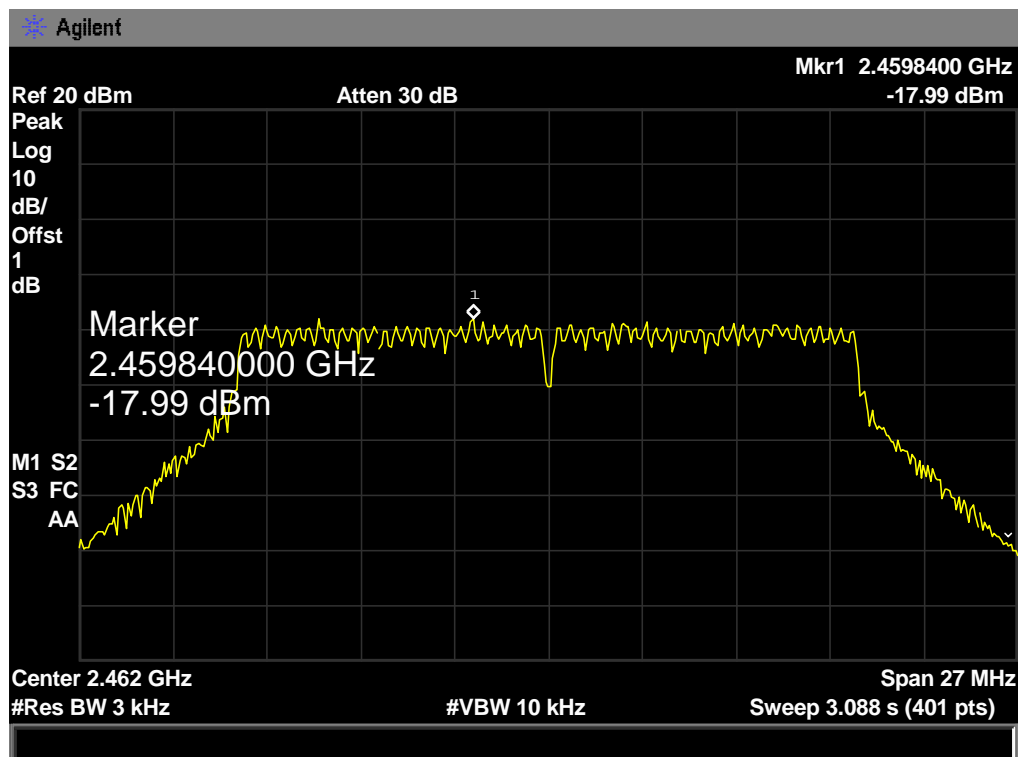
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz





EUT:	Nexersys Console	Model Name :	NXST22
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2422	-21.21	8	
2437	-21.67		
2452	-21.41		
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.43850 GHz  
-21.21 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.43850000 GHz

-21.21 dBm

M1 S2

S3 FC

AA

Center 2.422 GHz

#Res BW 3 kHz

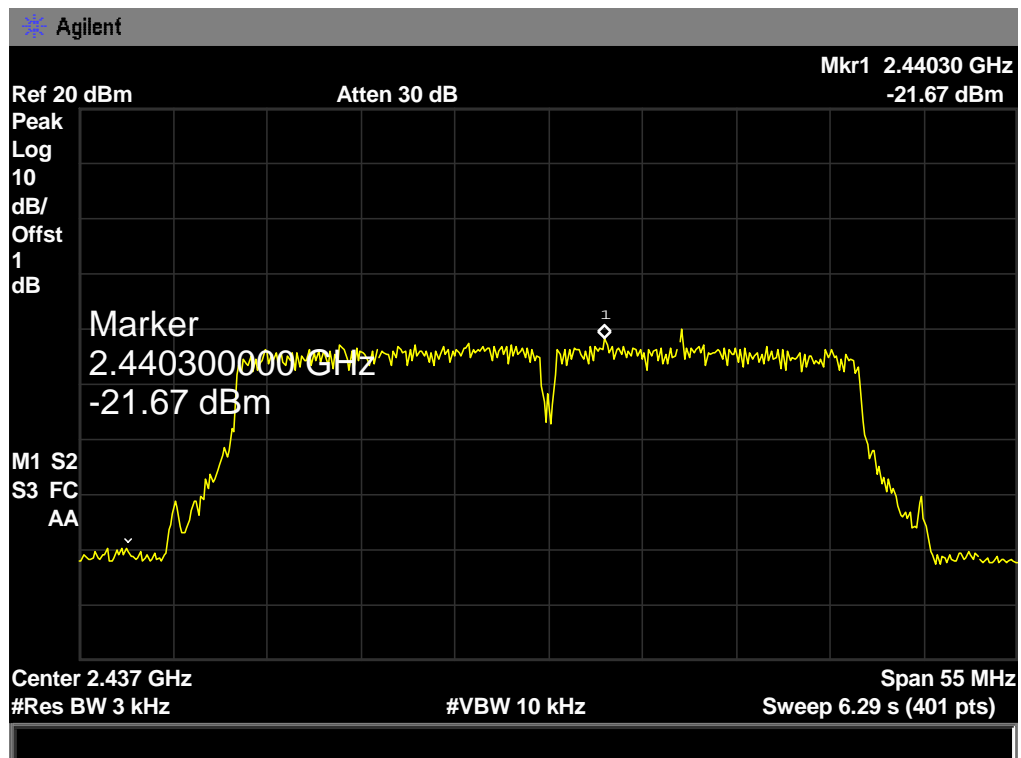
#VBW 10 kHz

Span 55 MHz

Sweep 6.29 s (401 pts)

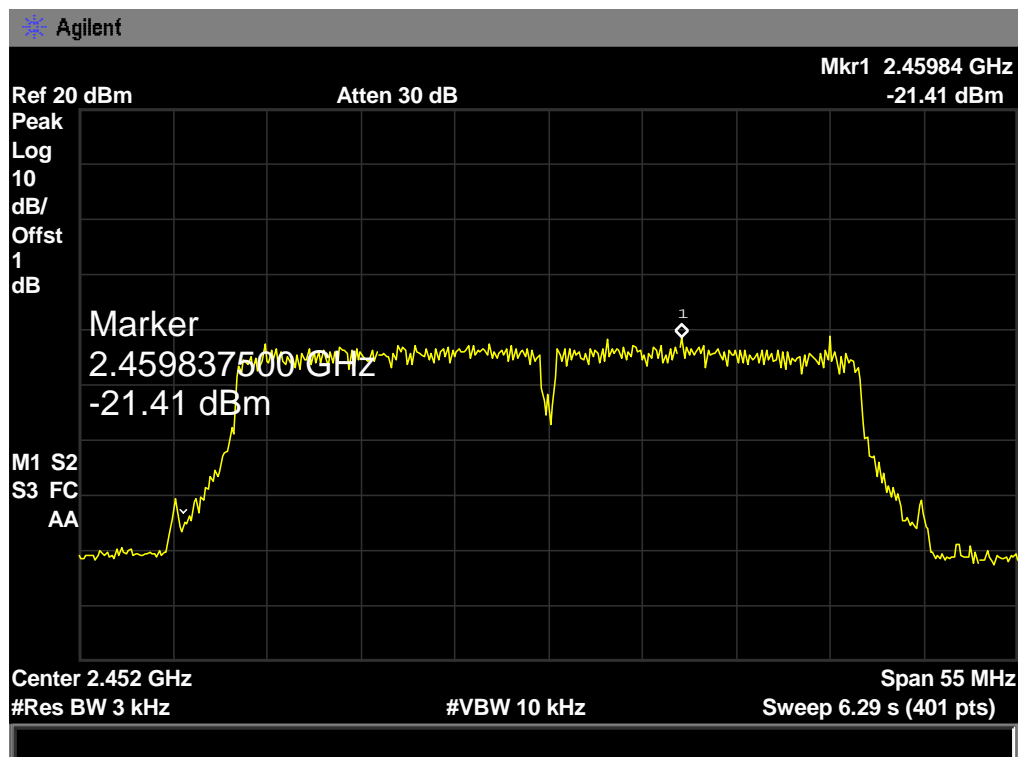
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz





## 10. Antenna Requirement

### 10.1 Standard Requirement

#### 10.1.1 Standard

FCC Part 15.203

#### 10.1.2 Requirement

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.

### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 3.12 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

#### Result

The EUT antenna is an FPC Antenna. It complies with the standard requirement.

Antenna Type
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna