9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup

Same as section 4.1

9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

9.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	≥span/RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

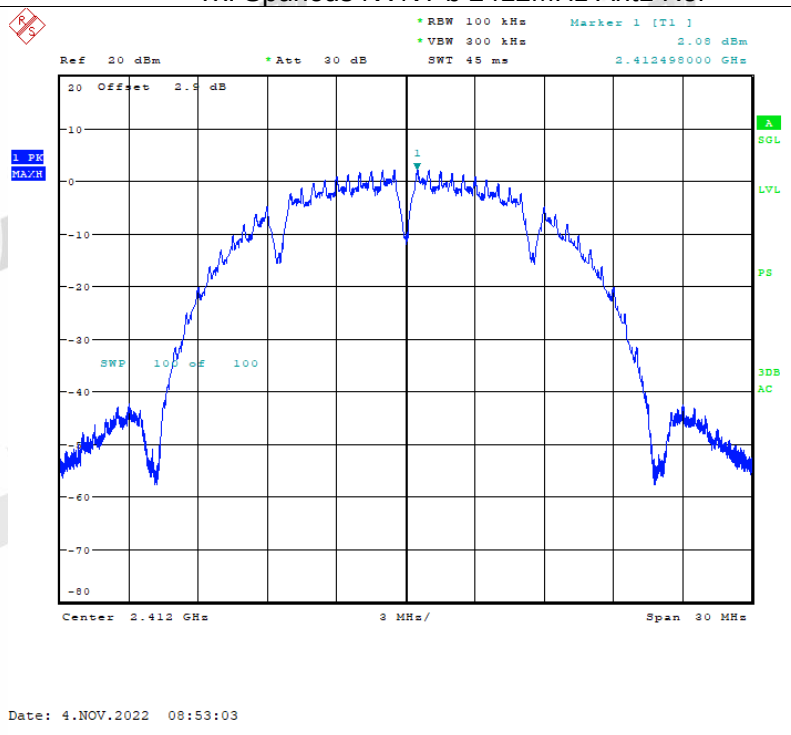
9.4. Test result

EUT Set Mode	CH or Frequency	Ant1 Result (dBm)	EUT Set Mode	CH or Frequency	Ant1 Result Result (dBm)
11b	CH1	Pass	11n HT 20	CH1	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH11	Pass
11g	CH1	Pass	11n HT 40	CH3	Pass
	CH6	Pass		CH6	Pass
	CH11	Pass		CH9	Pass

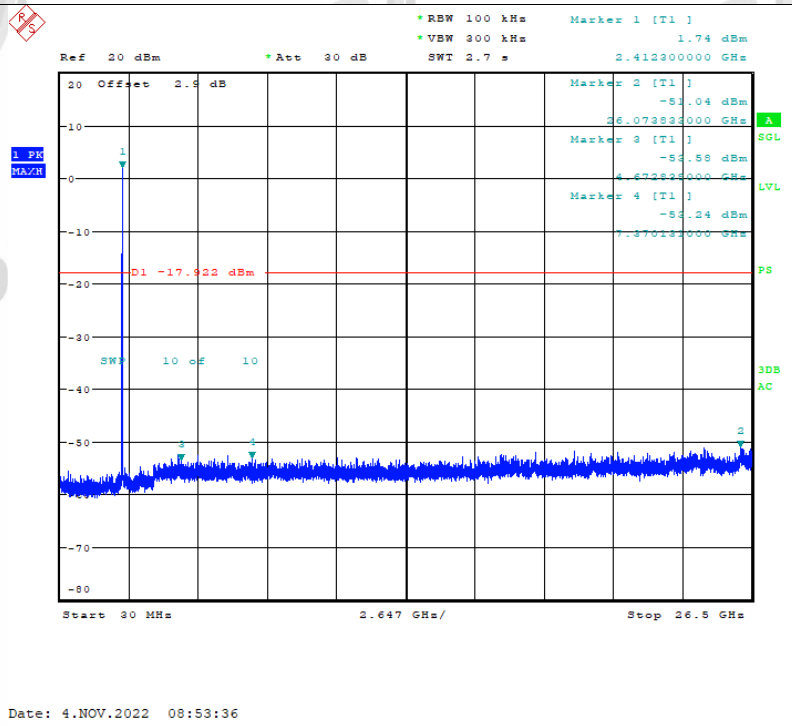
9.5. Original test data

Test Graphs

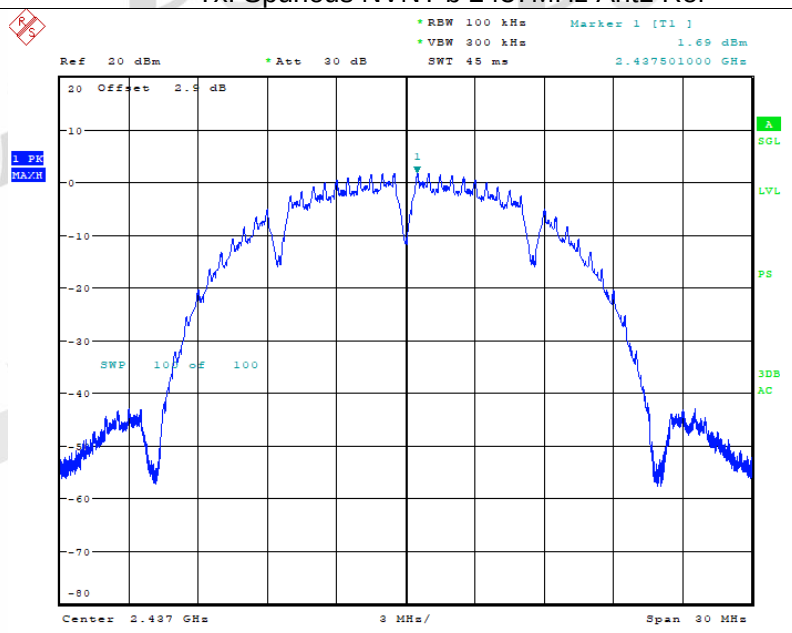
Tx. Spurious NVNT b 2412MHz Ant1 Ref



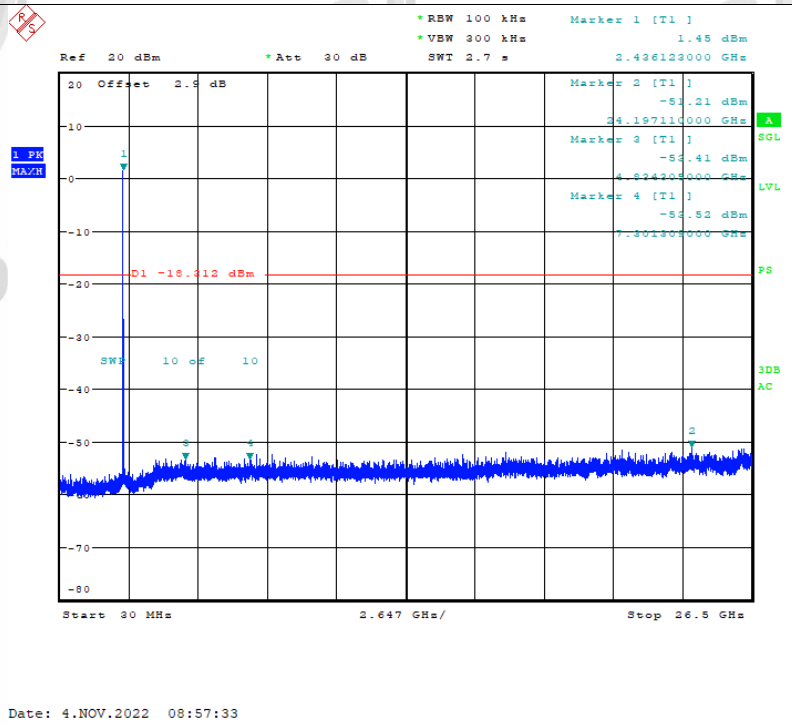
Tx. Spurious NVNT b 2412MHz Ant1 Emission



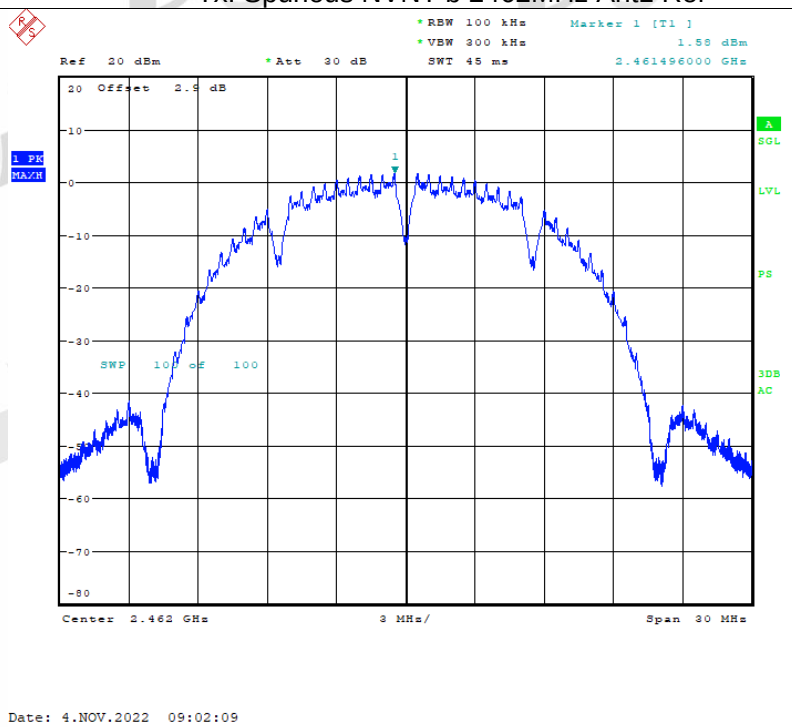
Tx. Spurious NVNT b 2437MHz Ant1 Ref



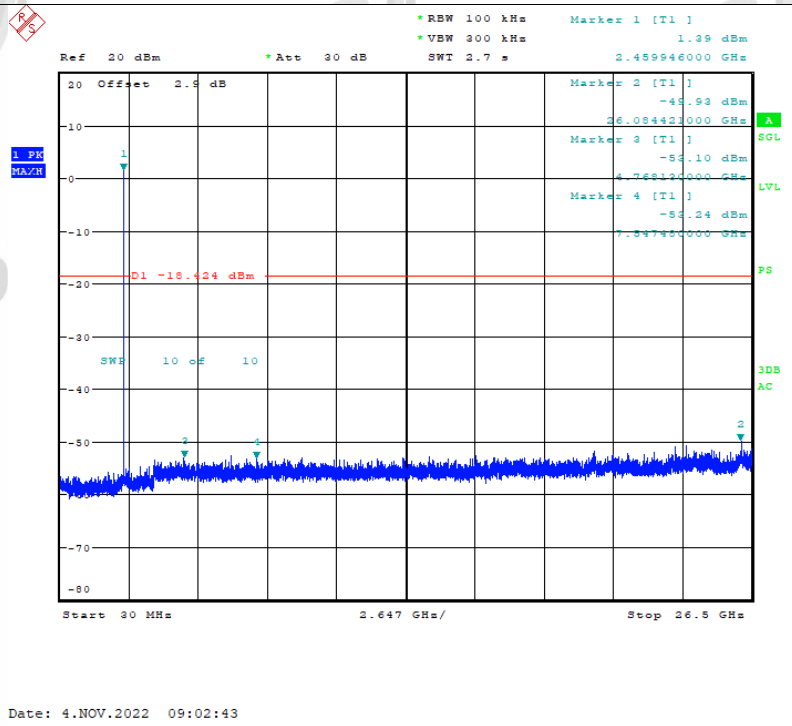
Tx. Spurious NVNT b 2437MHz Ant1 Emission



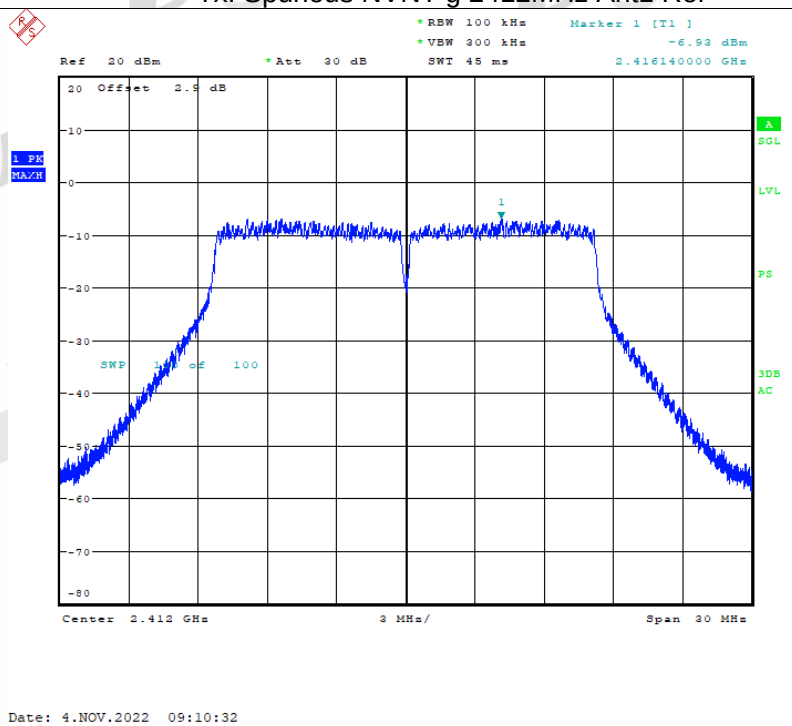
Tx. Spurious NVNT b 2462MHz Ant1 Ref



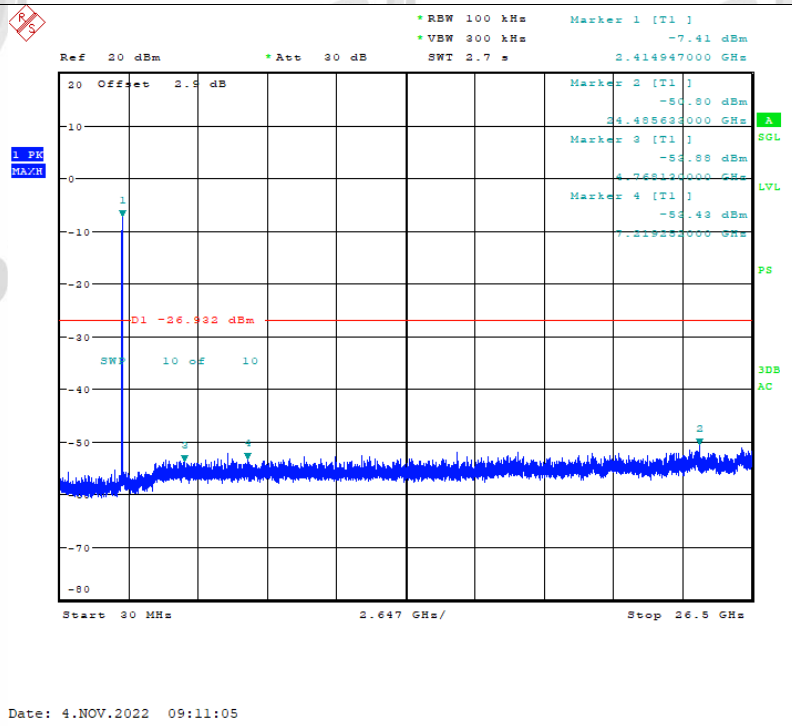
Tx. Spurious NVNT b 2462MHz Ant1 Emission



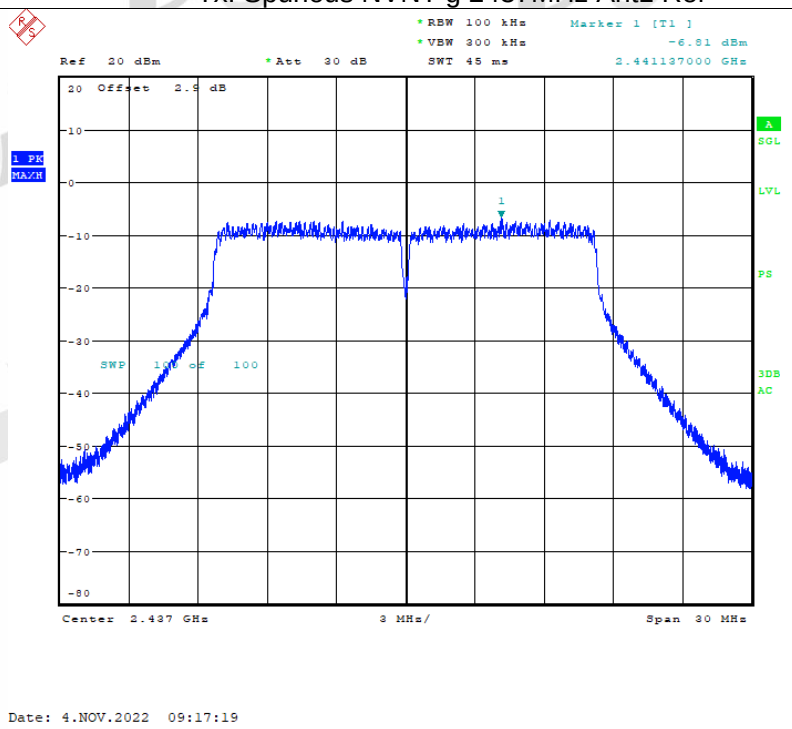
Tx. Spurious NVNT g 2412MHz Ant1 Ref



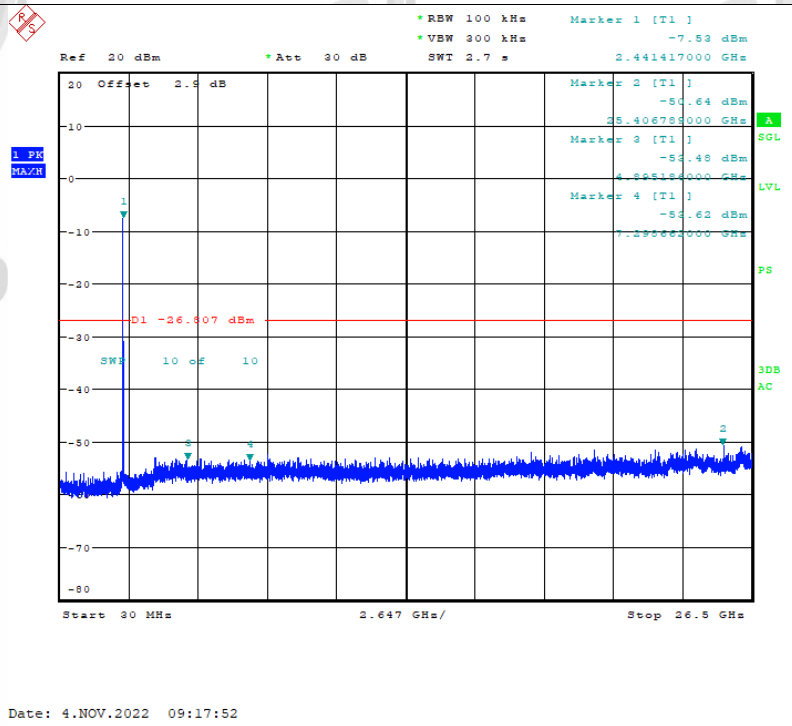
Tx. Spurious NVNT g 2412MHz Ant1 Emission



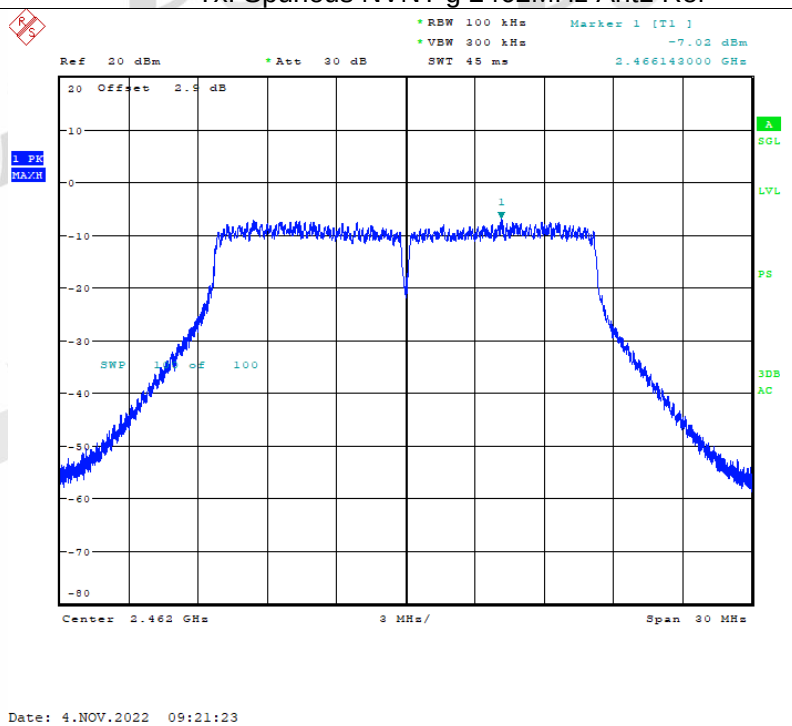
Tx. Spurious NVNT g 2437MHz Ant1 Ref



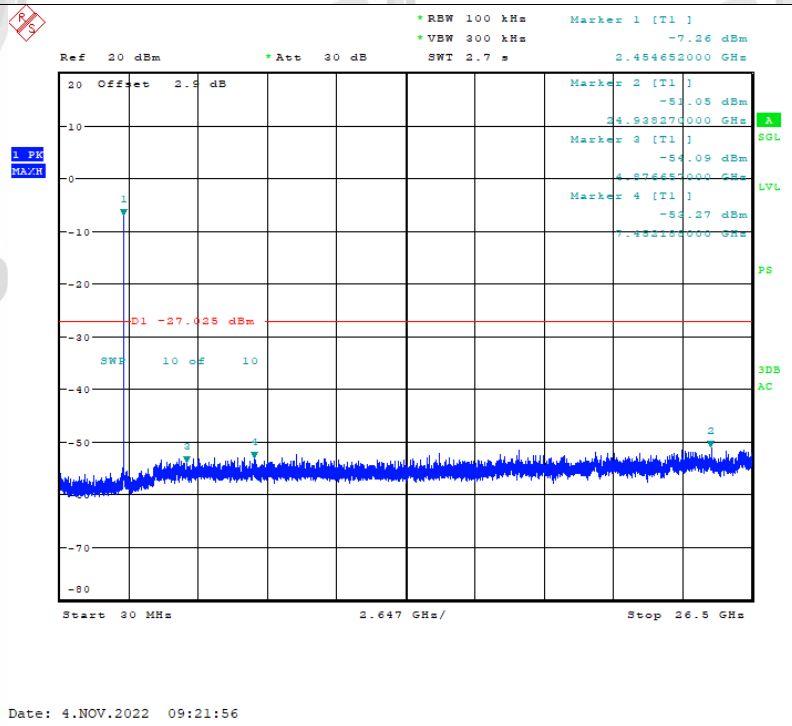
Tx. Spurious NVNT g 2437MHz Ant1 Emission



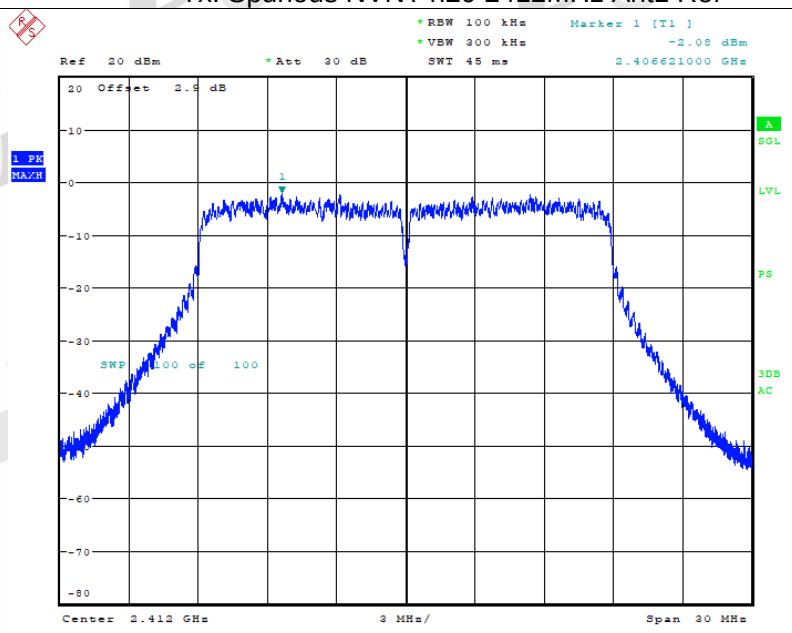
Tx. Spurious NVNT g 2462MHz Ant1 Ref



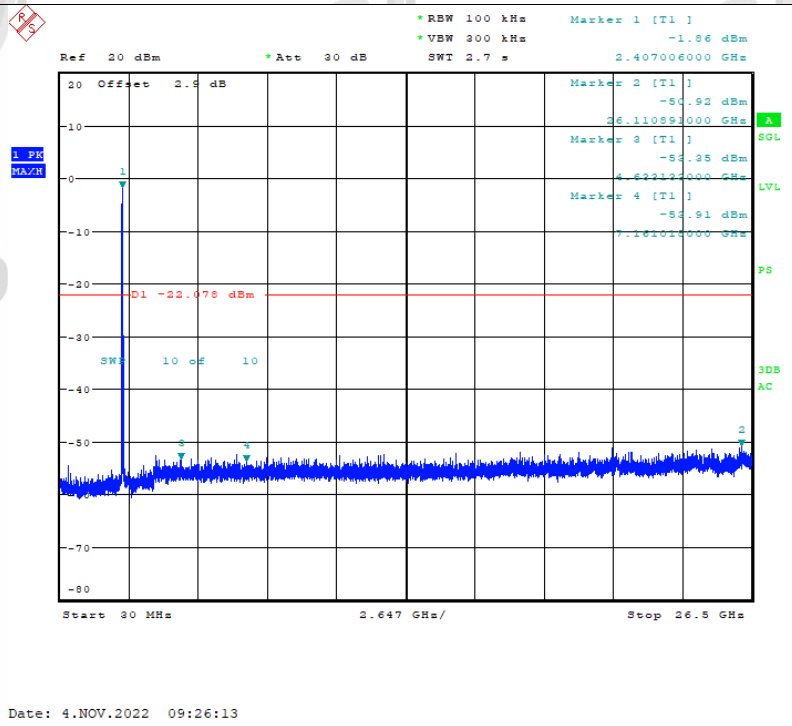
Tx. Spurious NVNT g 2462MHz Ant1 Emission



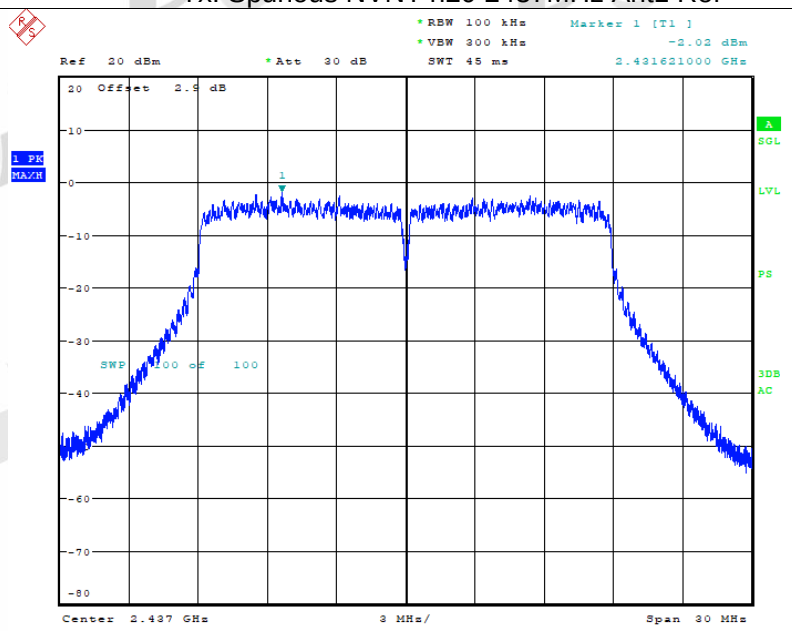
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



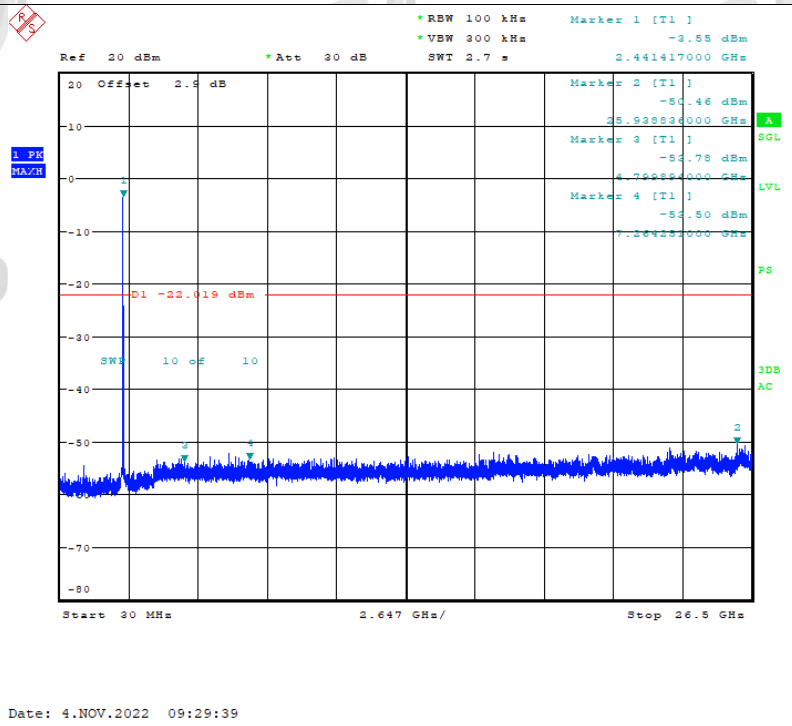
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



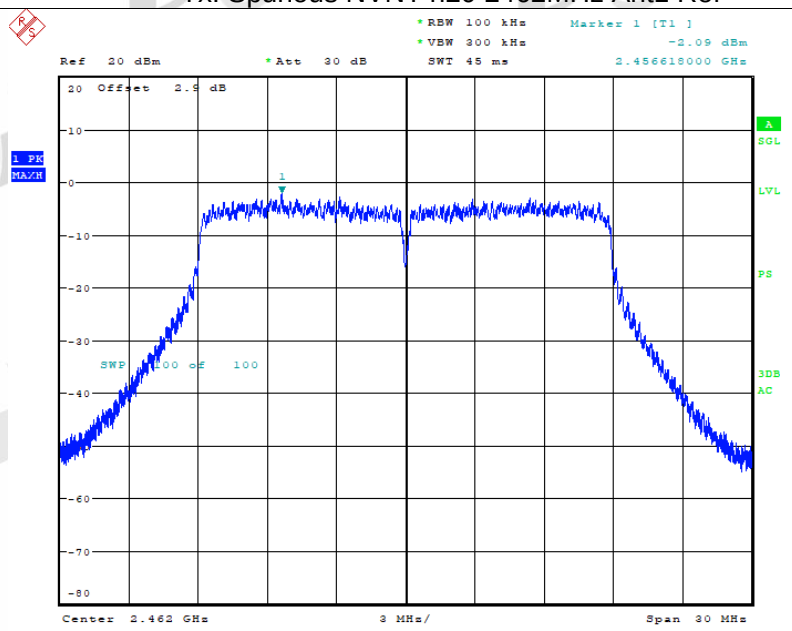
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



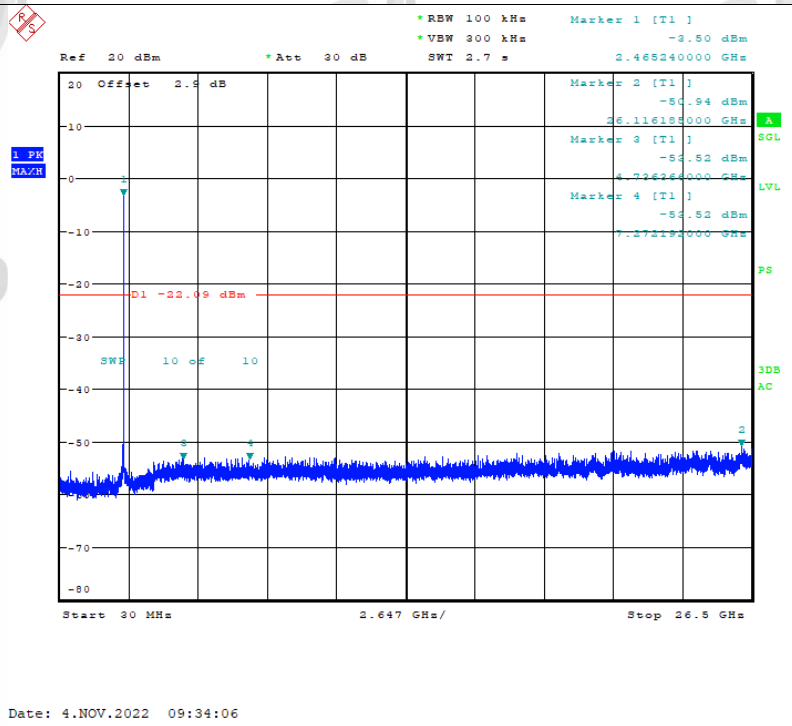
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



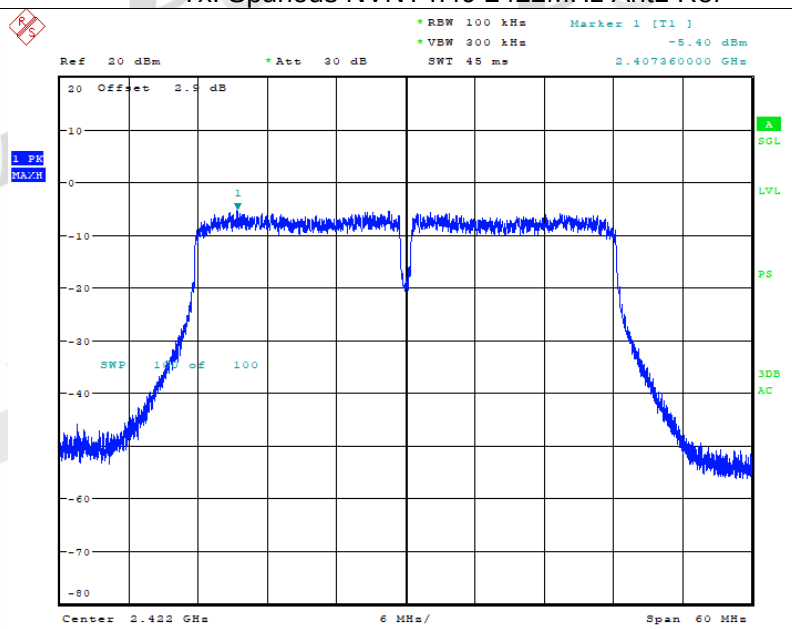
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



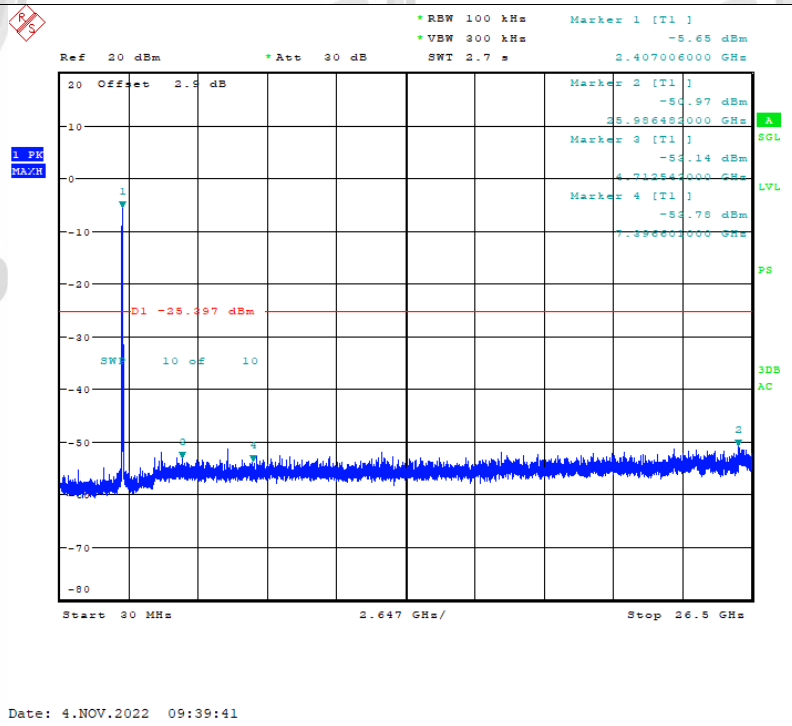
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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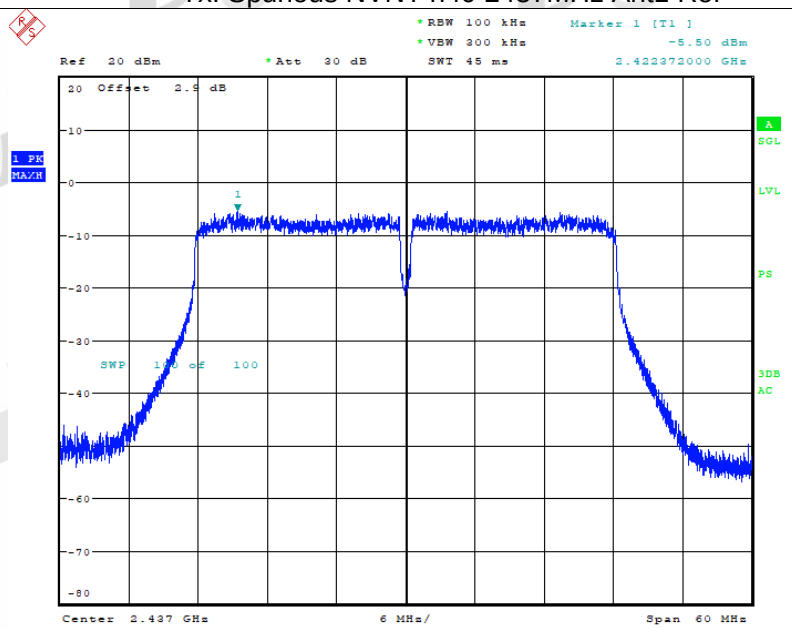
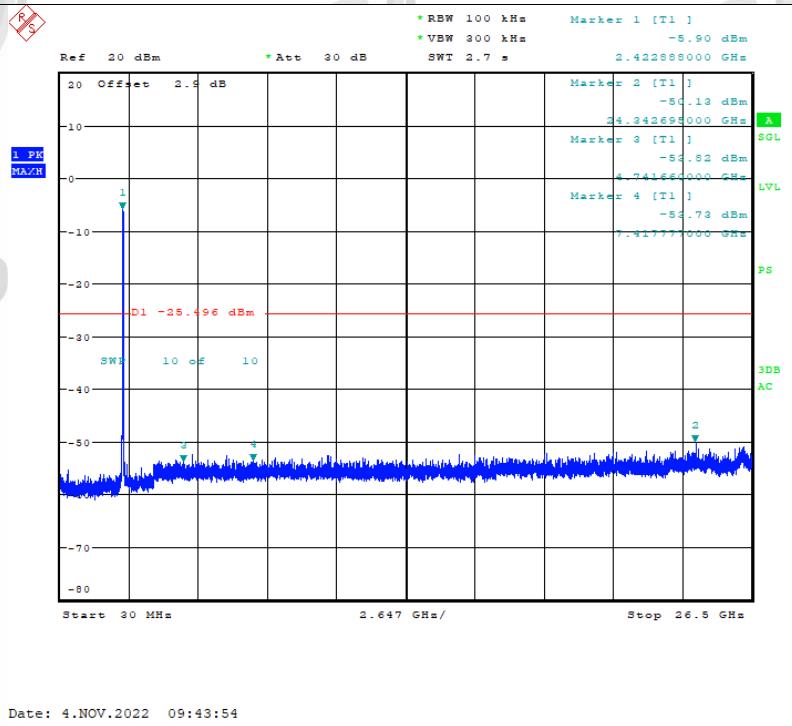
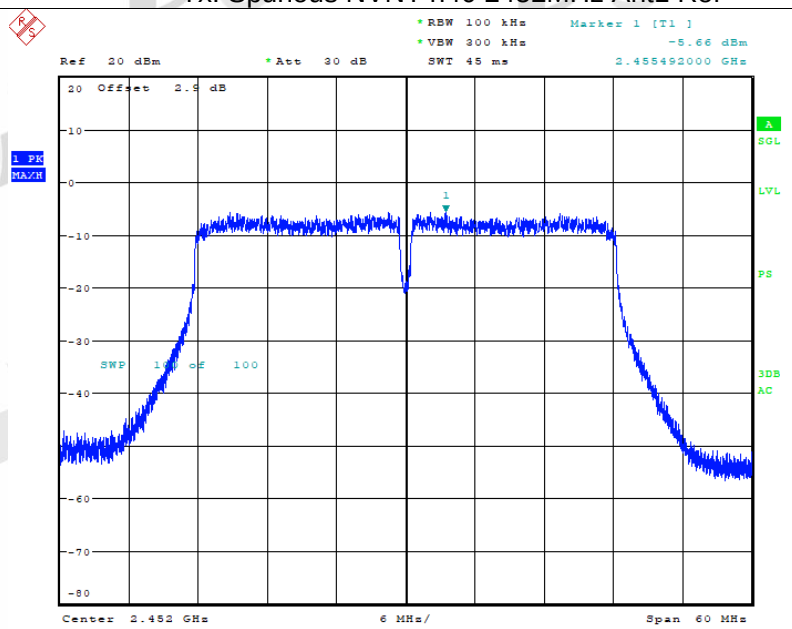


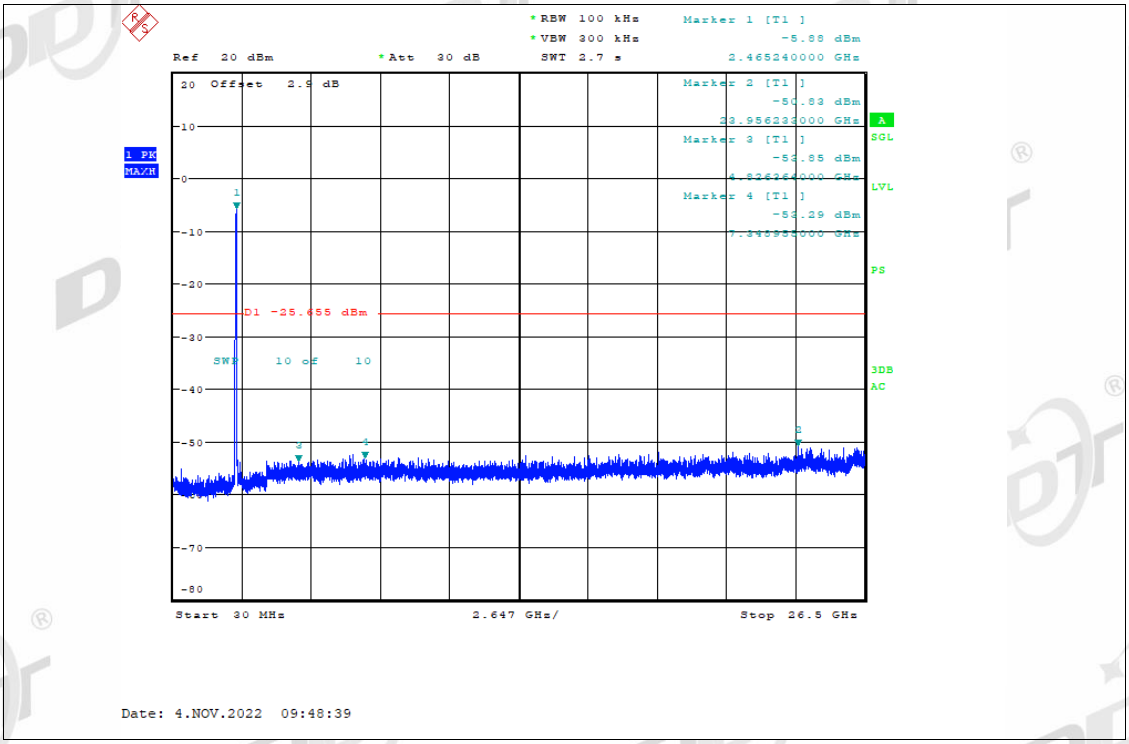
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref

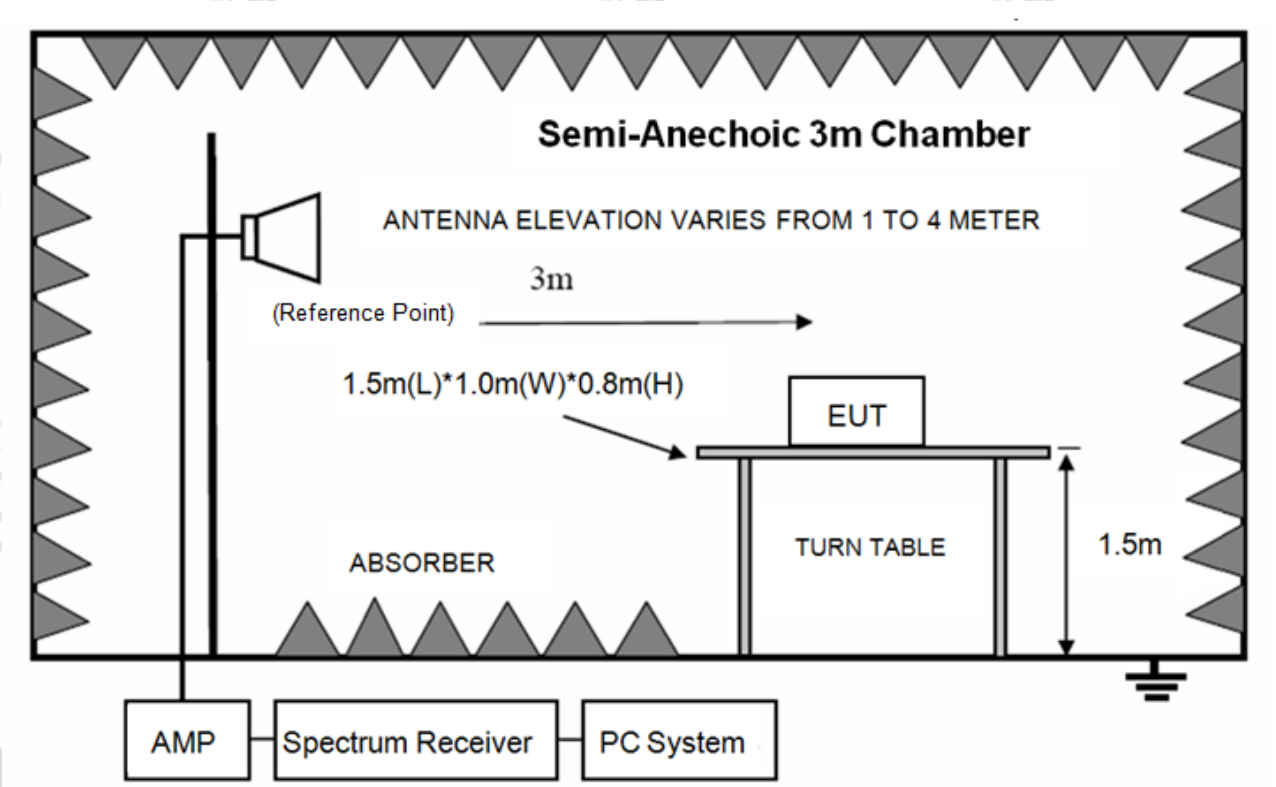


Tx. Spurious NVNT n40 2452MHz Ant1 Emission


RBW 100 kHz
VBW 300 kHz
SWT 2.7 s
Marker 1 [T1]
-5.88 dBm
2.465240000 GHz
Ref 20 dBm
Att 30 dB
Offset 2.9 dB
Marker 2 [T1]
-50.83 dBm
23.956232000 GHz
Marker 3 [T1]
-53.85 dBm
4.826264000 GHz
Marker 4 [T1]
-53.29 dBm
7.345931000 GHz
1 PK
MAXH
A
SGL
LVL
PS
3DB
AC
D1 -25.655 dBm
SWP 10 of 10
Start 30 MHz
2.647 GHz/
Stop 26.5 GHz
Date: 4.NOV.2022 09:48:39

10. Radiated Band Edge Compliance

10.1. Block diagram of test setup



10.2. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20dB below the fundamental emissions or comply with RSS-Gen Issue 3 clause 7.2.5 (Same as FCC 15.209) limits.

10.3. Test procedure

Same with clause 8.3 except change investigated frequency range.

Remark: All restriction band have been tested, and shown in report.

10.4. Test result

Pass. (See below detailed test result)

Note: All modes were test and the worst case was record in this report.

Radiated Emission Test Result

Test Site : 10m Chamber

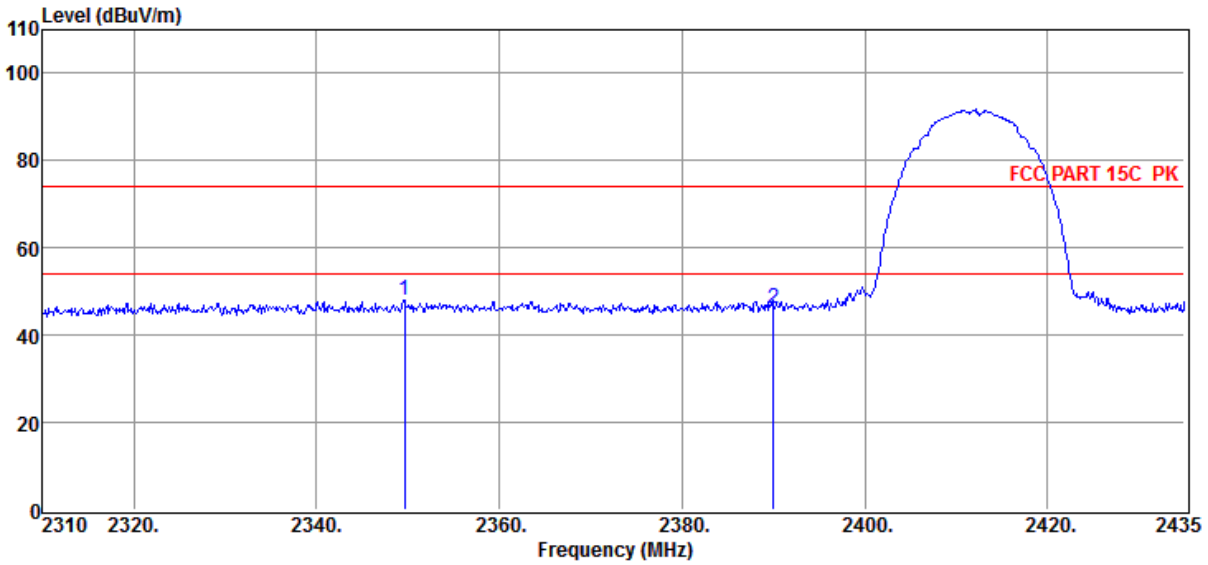
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11B 1M 2412MHz

Data: 7



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2349.63	44.78	34.59	-31.41	47.96	74.00	-26.04	Peak	VERTICAL
2	2390.00	42.65	35.00	-31.70	45.95	74.00	-28.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

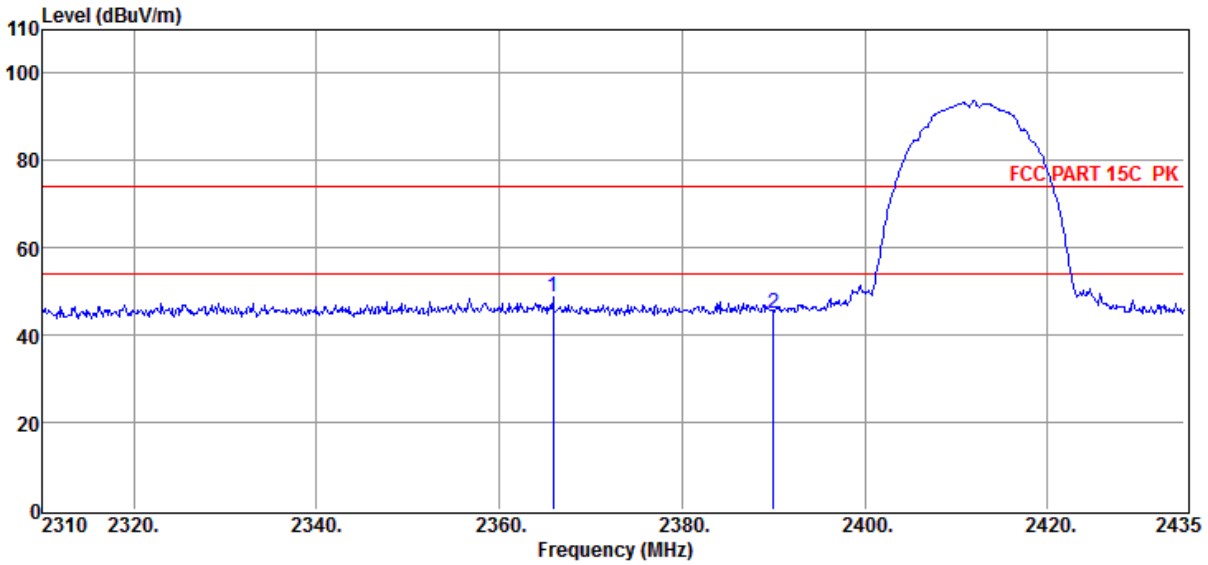
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11B 1M 2412MHz

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2365.88	45.36	34.76	-31.52	48.60	74.00	-25.40	Peak	HORIZONTAL
2	2390.00	41.74	35.00	-31.70	45.04	74.00	-28.96	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

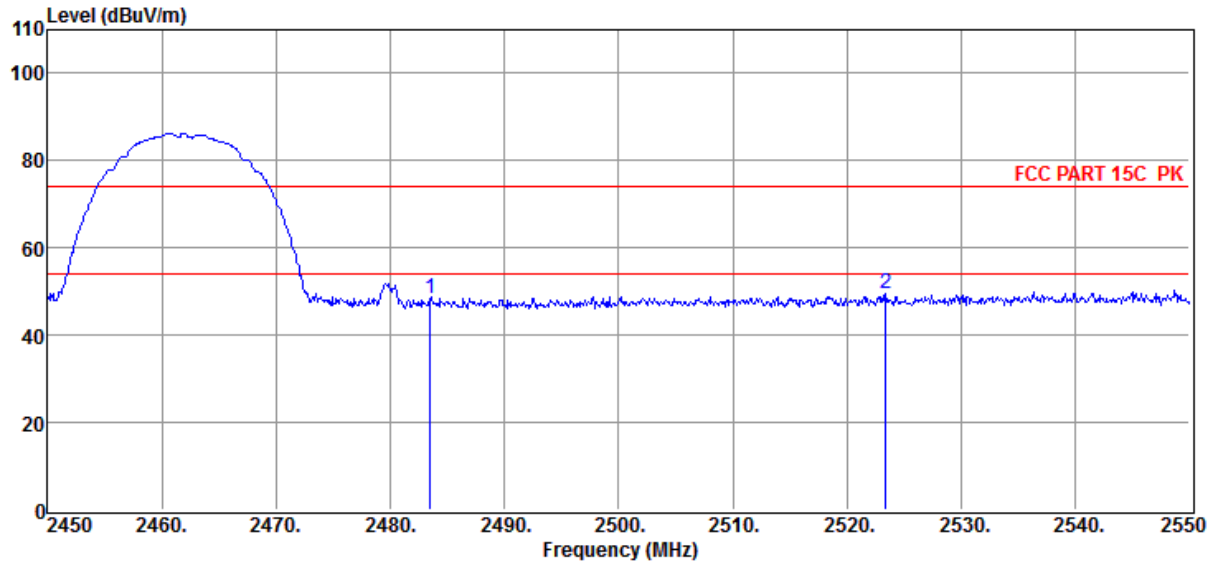
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11B 1M 2462MHz

Data: 9



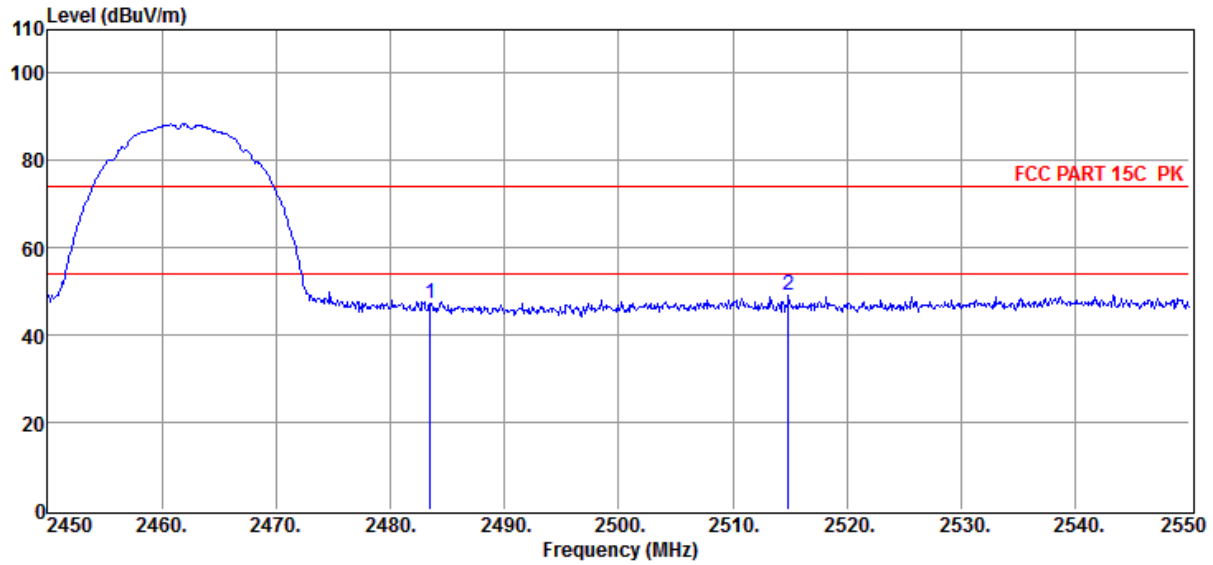
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	44.71	35.10	-31.58	48.23	74.00	-25.77	Peak	VERTICAL
2	2523.40	45.25	35.57	-31.40	49.42	74.00	-24.58	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-13-2022	**Tested By**	: Sunny
EUT	: Wireless cast	**Model Number**	: HT005E
Power Supply	: DC 5V	**Test Mode**	: Tx mode
Memo	: 11B 1M 2462MHz		

Data: 10



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	43.77	35.10	-31.58	47.29	74.00	-26.71	Peak	HORIZONTAL
2	2514.90	45.01	35.44	-31.46	48.99	74.00	-25.01	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

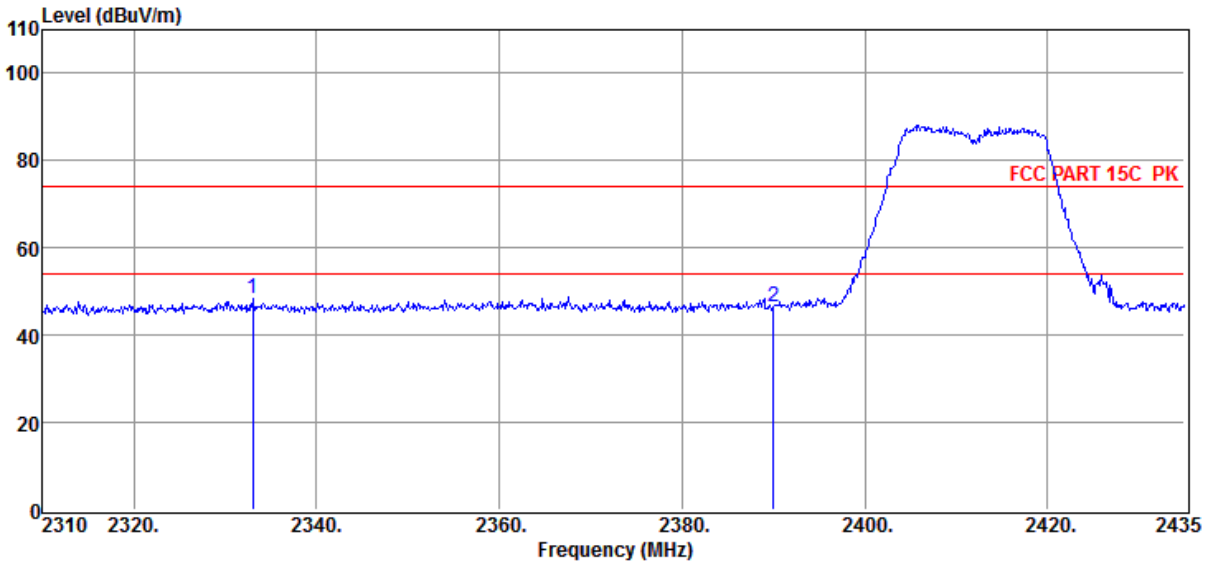
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11G 6M 2412MHz

Data: 11



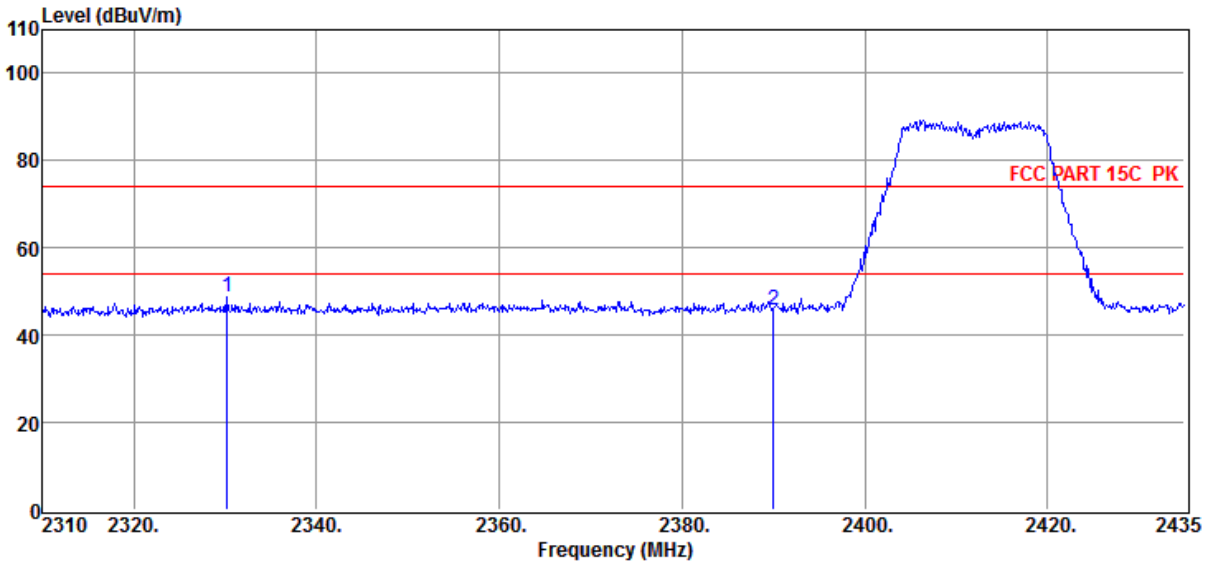
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2333.00	45.66	34.36	-31.61	48.41	74.00	-25.59	Peak	VERTICAL
2	2390.00	43.31	35.00	-31.70	46.61	74.00	-27.39	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-13-2022	**Tested By**	: Sunny
EUT	: Wireless cast	**Model Number**	: HT005E
Power Supply	: DC 5V	**Test Mode**	: Tx mode
Memo	: 11G 6M 2412MHz		

Data: 12



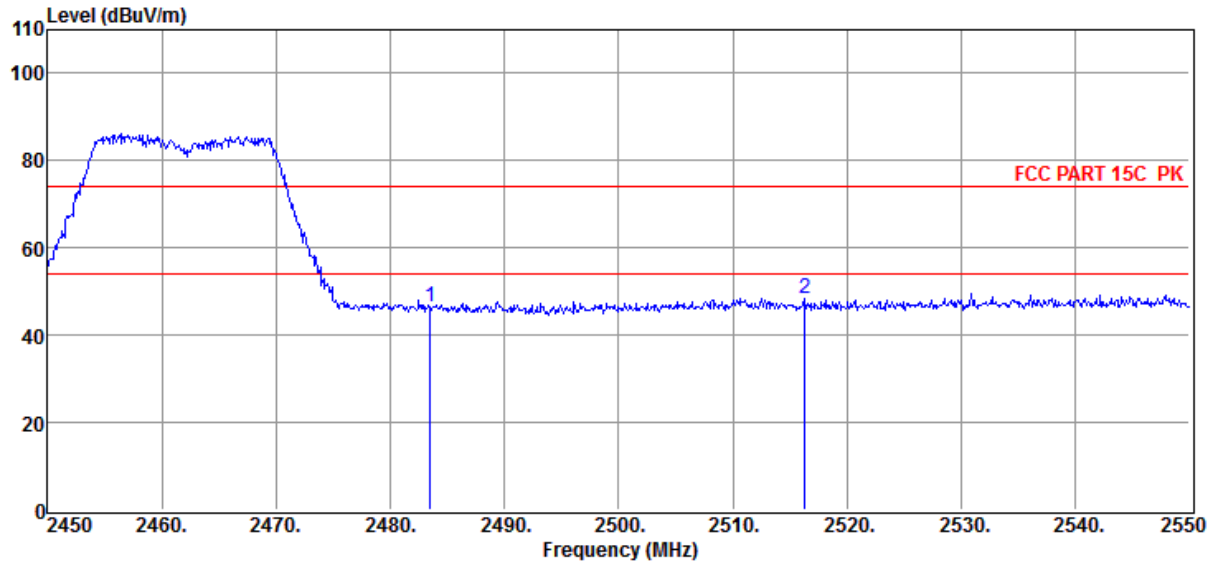
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2330.25	46.06	34.32	-31.64	48.74	74.00	-25.26	Peak	HORIZONTAL
2	2390.00	42.46	35.00	-31.70	45.76	74.00	-28.24	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	:	10m Chamber			
Test Date	:	11-13-2022	**Tested By**	:	Sunny
EUT	:	Wireless cast	**Model Number**	:	HT005E
Power Supply	:	DC 5V	**Test Mode**	:	Tx mode
Memo	:	11G 6M 2462MHz			

Data: 13



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	43.08	35.10	-31.58	46.60	74.00	-27.40	Peak	HORIZONTAL
2	2516.30	44.29	35.46	-31.45	48.30	74.00	-25.70	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

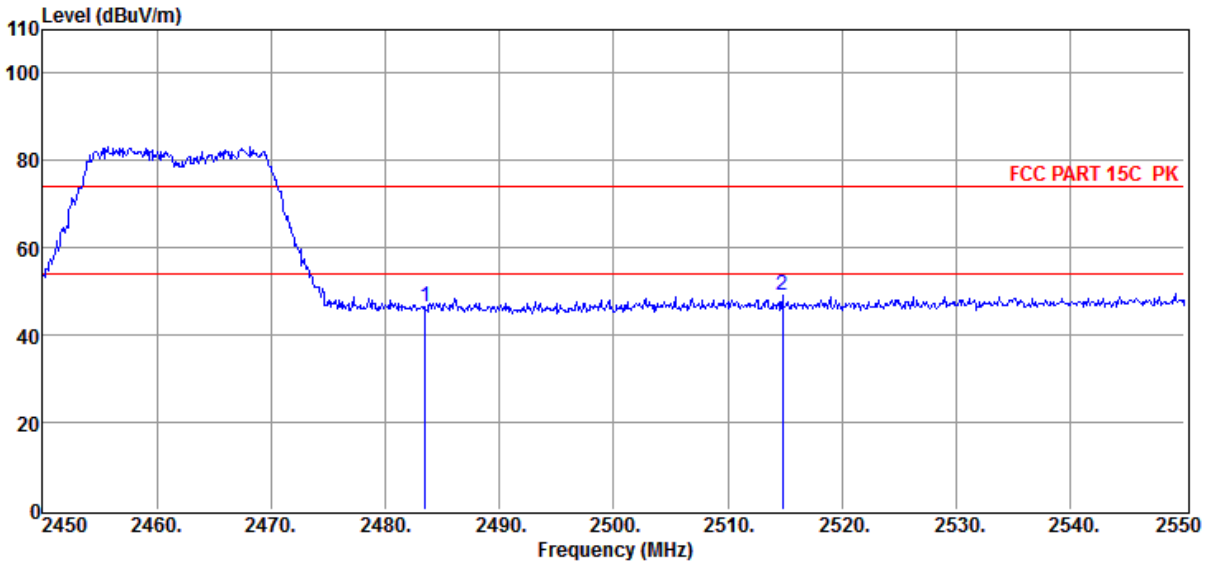
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11G 6M 2462MHz

Data: 14



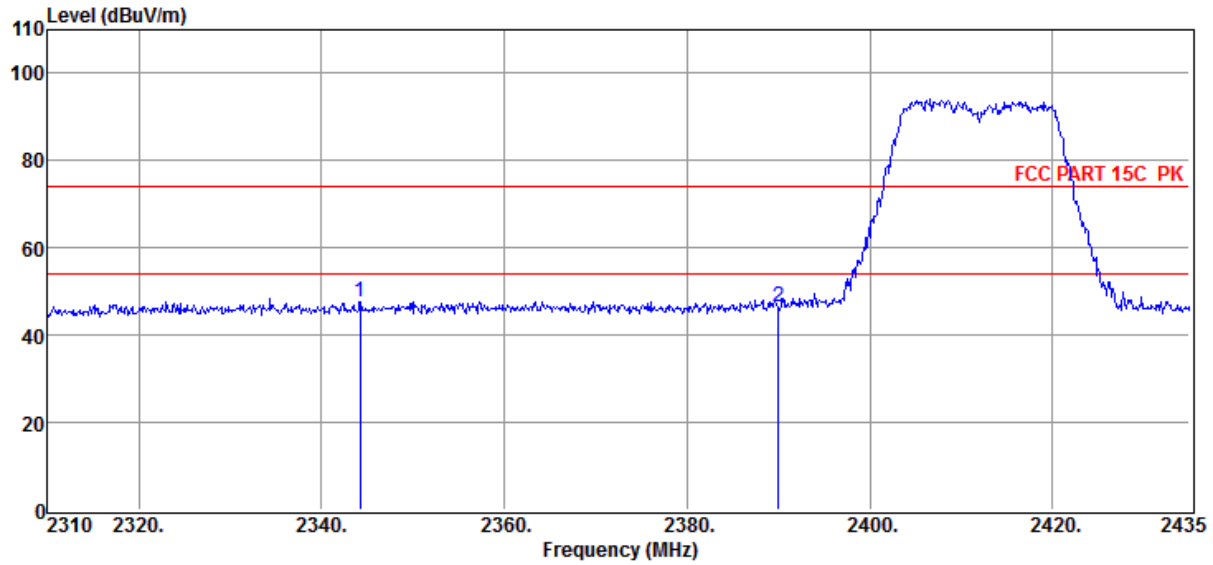
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	42.96	35.10	-31.58	46.48	74.00	-27.52	Peak	VERTICAL
2	2514.80	44.99	35.44	-31.46	48.97	74.00	-25.03	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	:	10m Chamber			
Test Date	:	11-13-2022	**Tested By**	:	Sunny
EUT	:	Wireless cast	**Model Number**	:	HT005E
Power Supply	:	DC 5V	**Test Mode**	:	Tx mode
Memo	:	11N20 MCS0 2412MHz			

Data: 15



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2344.25	44.71	34.52	-31.48	47.75	74.00	-26.25	Peak	HORIZONTAL
2	2390.00	43.33	35.00	-31.70	46.63	74.00	-27.37	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

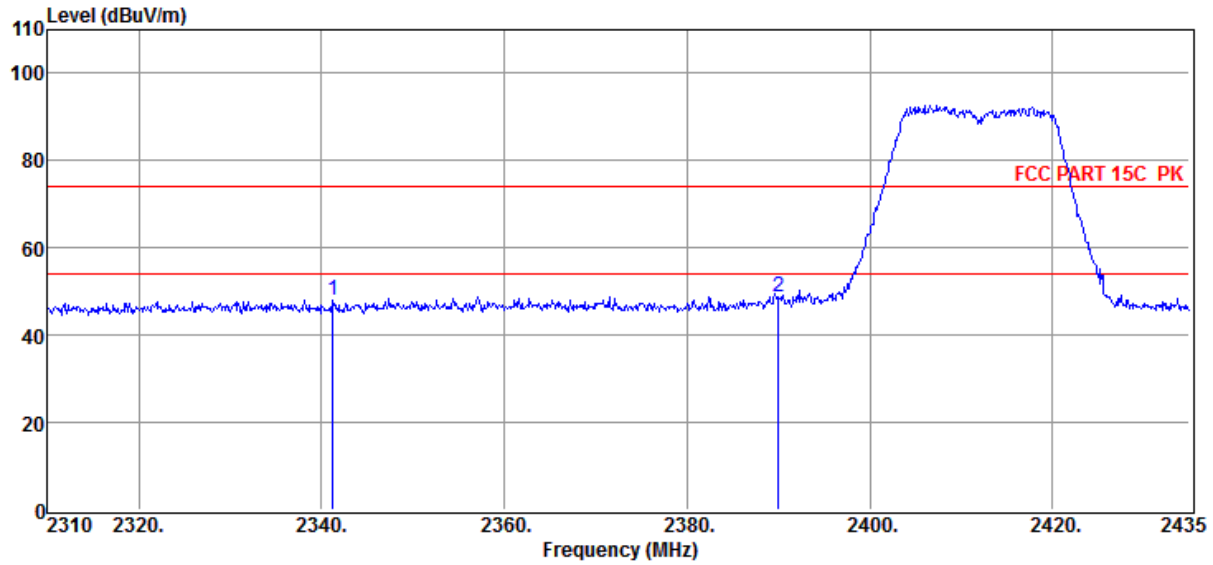
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N20 MCS0 2412MHz

Data: 16



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2341.25	45.06	34.48	-31.51	48.03	74.00	-25.97	Peak	VERTICAL
2	2390.00	45.31	35.00	-31.70	48.61	74.00	-25.39	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

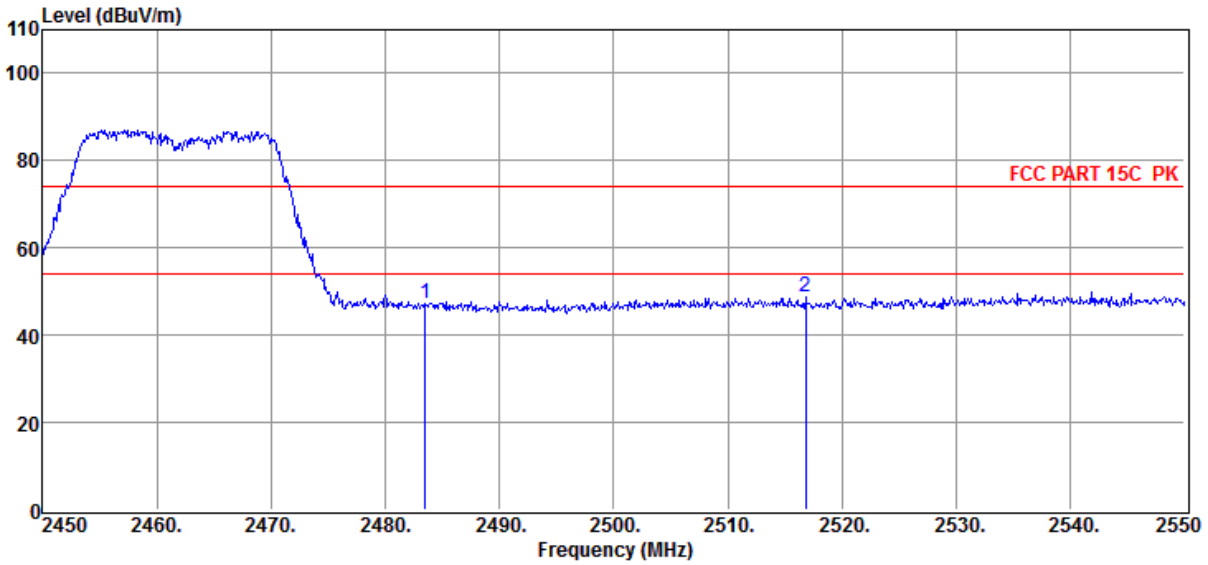
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 17



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	43.65	35.10	-31.58	47.17	74.00	-26.83	Peak	VERTICAL
2	2516.80	44.84	35.47	-31.44	48.87	74.00	-25.13	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

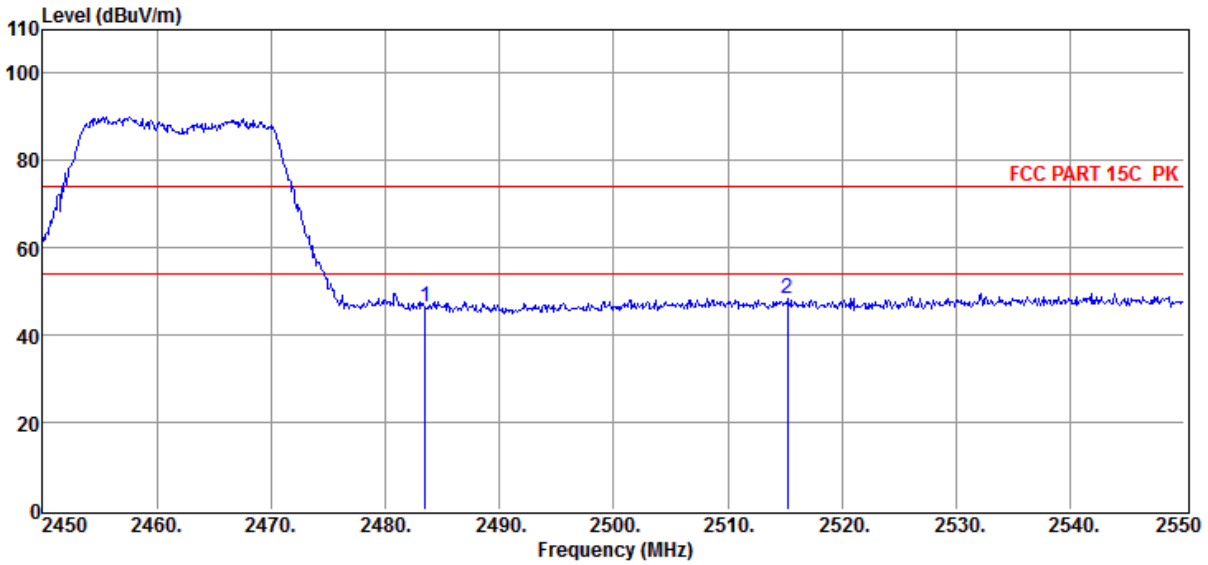
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 18



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	43.11	35.10	-31.58	46.63	74.00	-27.37	Peak	HORIZONTAL
2	2515.20	44.51	35.44	-31.45	48.50	74.00	-25.50	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

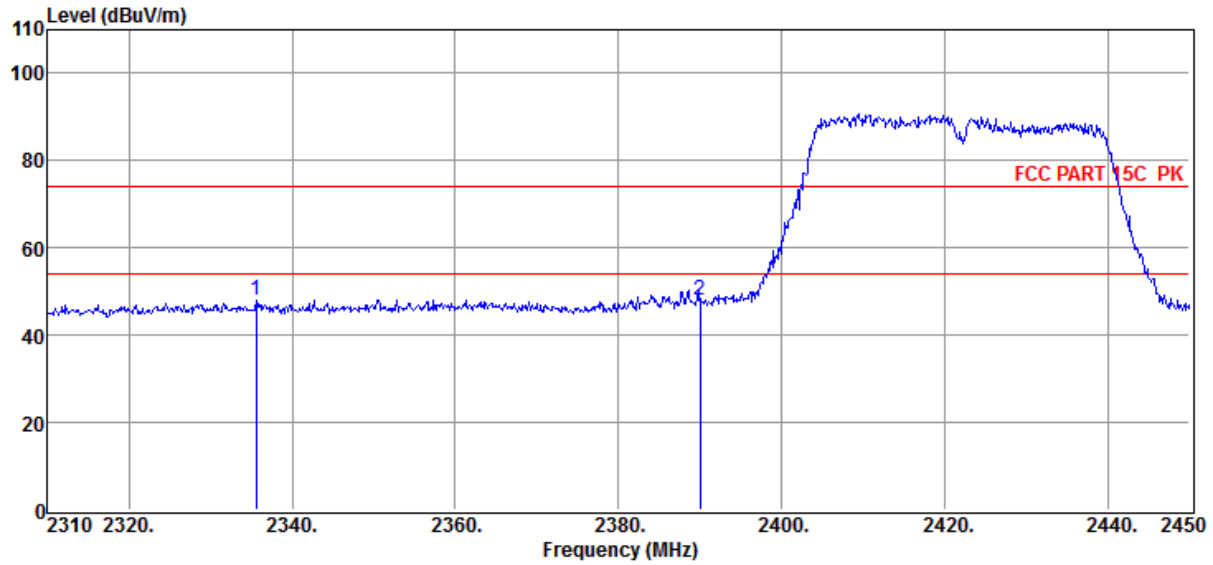
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 19



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2335.62	45.26	34.40	-31.58	48.08	74.00	-25.92	Peak	HORIZONTAL
2	2390.00	44.71	35.00	-31.70	48.01	74.00	-25.99	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

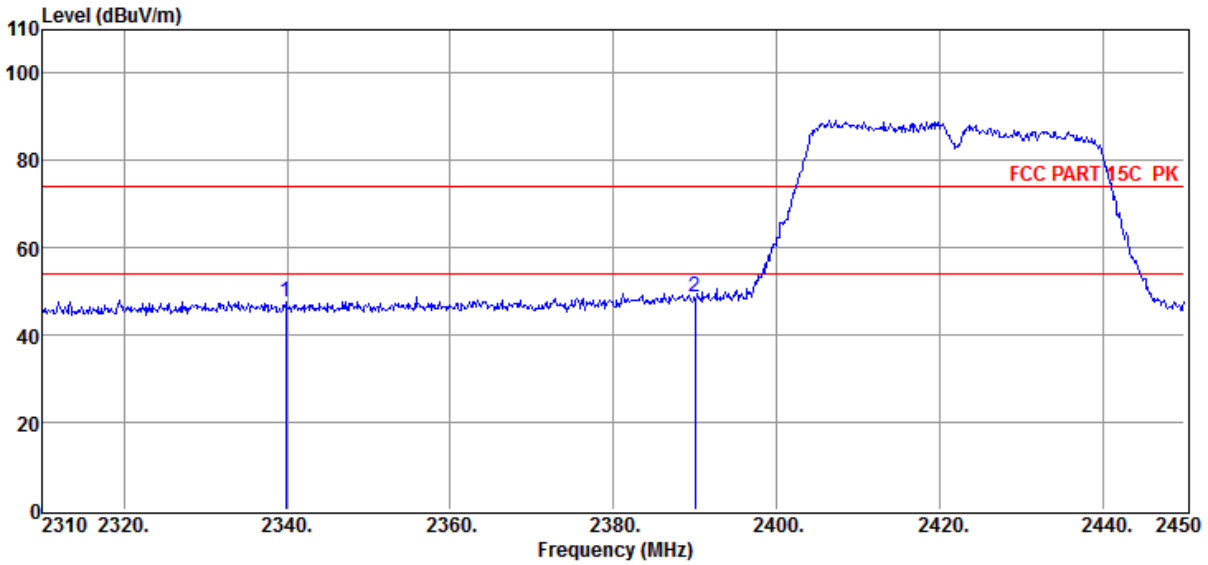
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 20



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2339.82	44.70	34.46	-31.53	47.63	74.00	-26.37	Peak	VERTICAL
2	2390.00	45.39	35.00	-31.70	48.69	74.00	-25.31	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

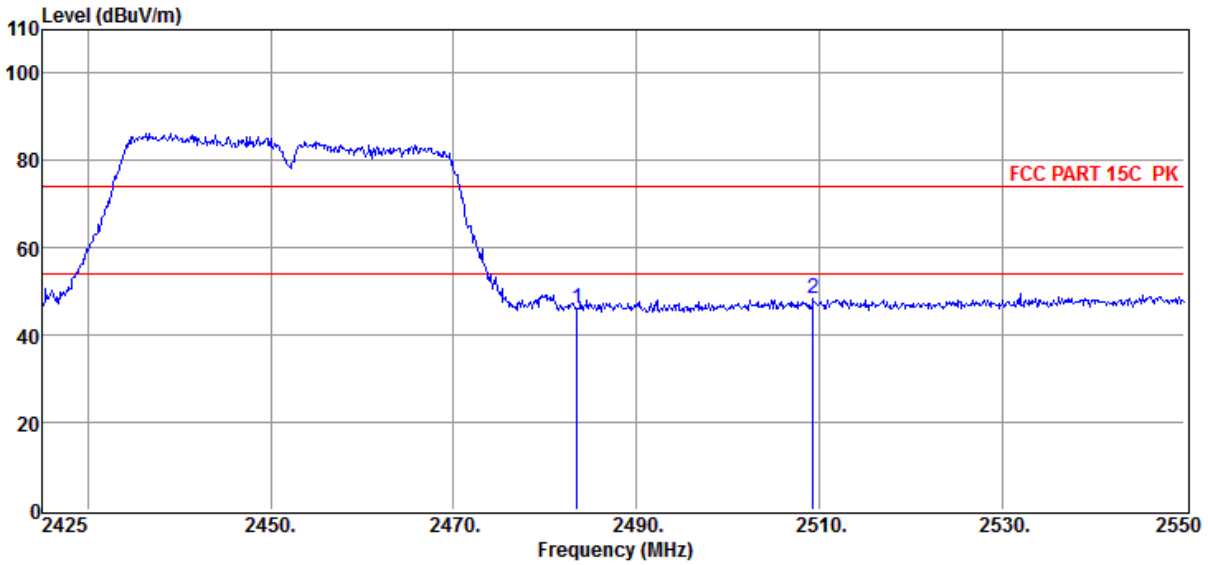
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 21



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	42.69	35.10	-31.58	46.21	74.00	-27.79	Peak	VERTICAL
2	2509.38	44.36	35.35	-31.49	48.22	74.00	-25.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

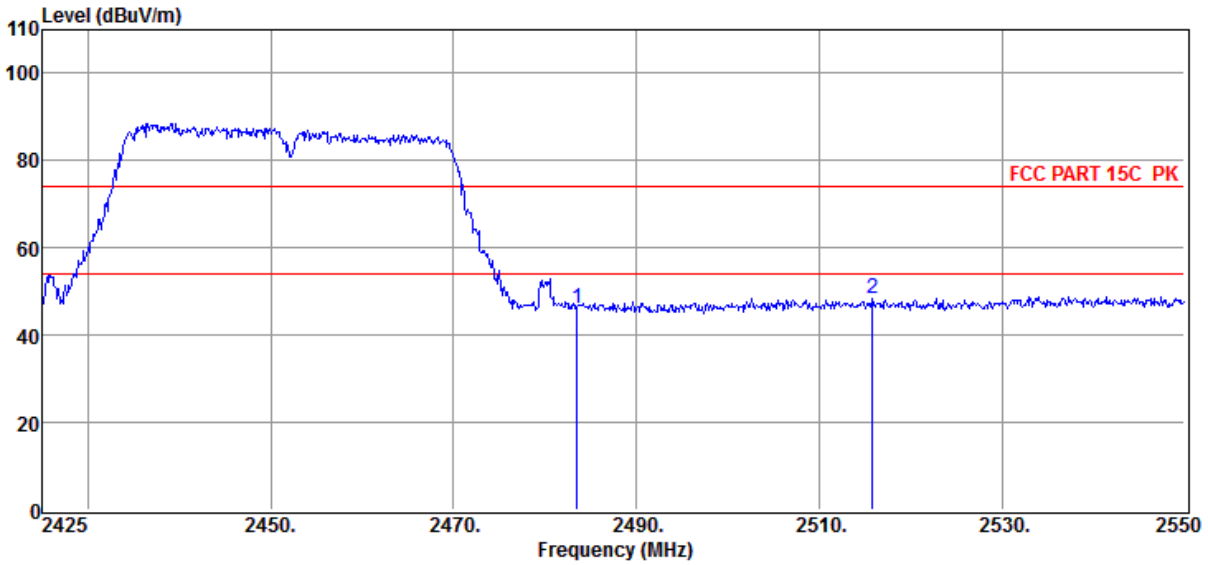
Test Date : 11-13-2022 **Tested By** : Sunny

EUT : Wireless cast **Model Number** : HT005E

Power Supply : DC 5V **Test Mode** : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 22

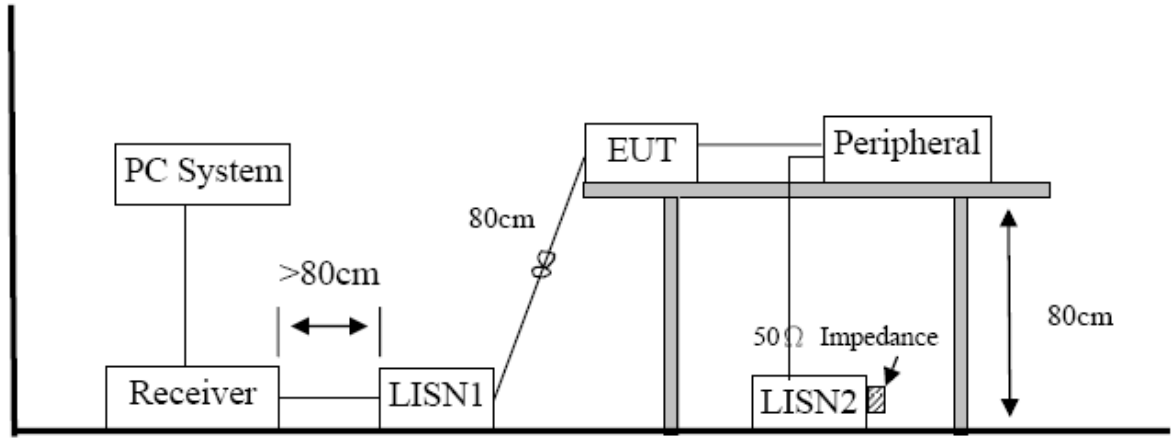


Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	42.63	35.10	-31.58	46.15	74.00	-27.85	Peak	HORIZONTAL
2	2515.88	44.45	35.45	-31.45	48.45	74.00	-25.55	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

11. Power Line Conducted Emission

11.1. Block diagram of test setup



11.2. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

11.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

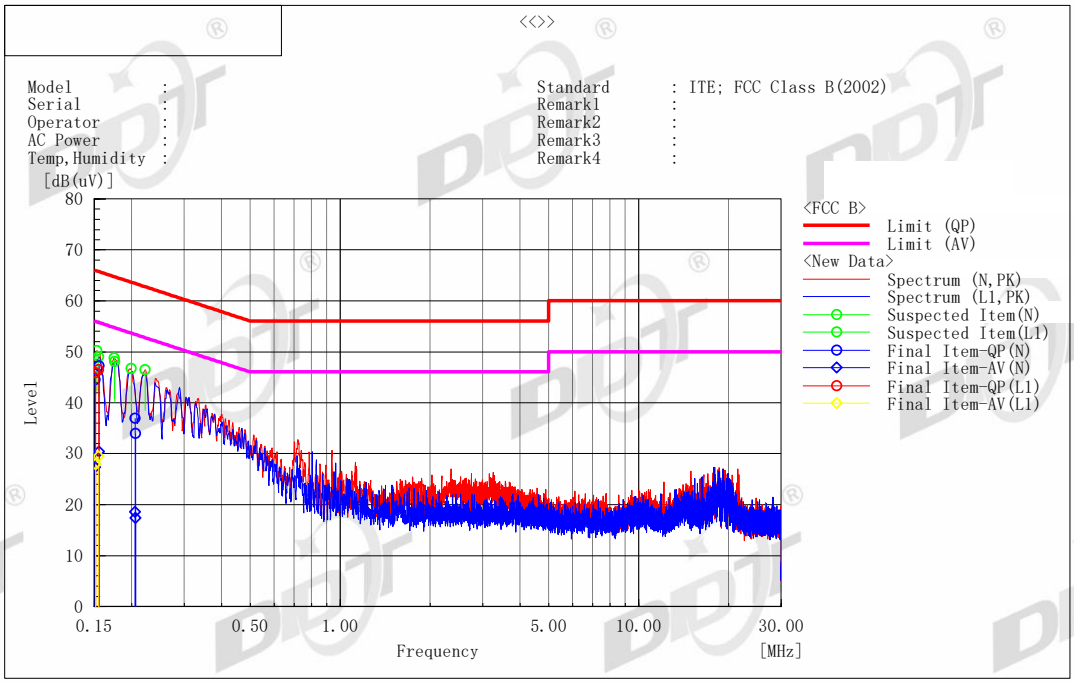
The bandwidth of test receiver is set at 9 kHz.

11.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: Pre-test AC conducted emission at all mode, only the worst case was recorded in this report.

Test Data:



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15544	37.4	20.6	9.8	47.2	30.4	65.7	55.7	18.5	25.3
2	0.15078	34.7	17.6	9.8	44.5	27.4	66.0	56.0	21.5	28.6
3	0.20558	27.2	8.8	9.7	36.9	18.5	63.4	53.4	26.5	34.9
4	0.20631	24.3	7.6	9.7	34.0	17.3	63.4	53.4	29.4	36.1

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15133	36.1	18.1	9.8	45.9	27.9	65.9	55.9	20.0	28.0
2	0.15493	36.7	19.6	9.8	46.5	29.4	65.7	55.7	19.2	26.3

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor
Note2) Line = Polarity of input power (Live or Neutral)
N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,
Note3) Factor = LISN Insertion Loss + Cable Loss
Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)
Note5) C/Average : Abbreviation of CISPR Average

12. Antenna Requirements

12.1. Limit

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

12.2. Result

The antenna used for this product is Chip antenna and no antenna other than that furnished by the responsible party shall be used with the device, maximum antenna gain is 3 dBi.