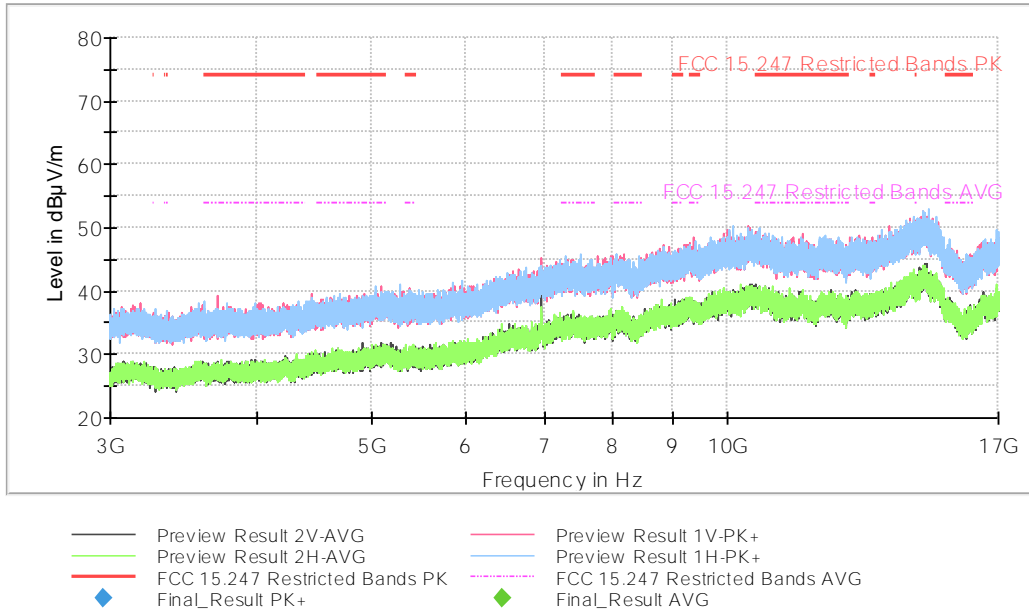


Frequency (MHz) = 2402.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (Pi/4 DQPSK 2-DH5), Frequency Range (GHz) = [3, 17]

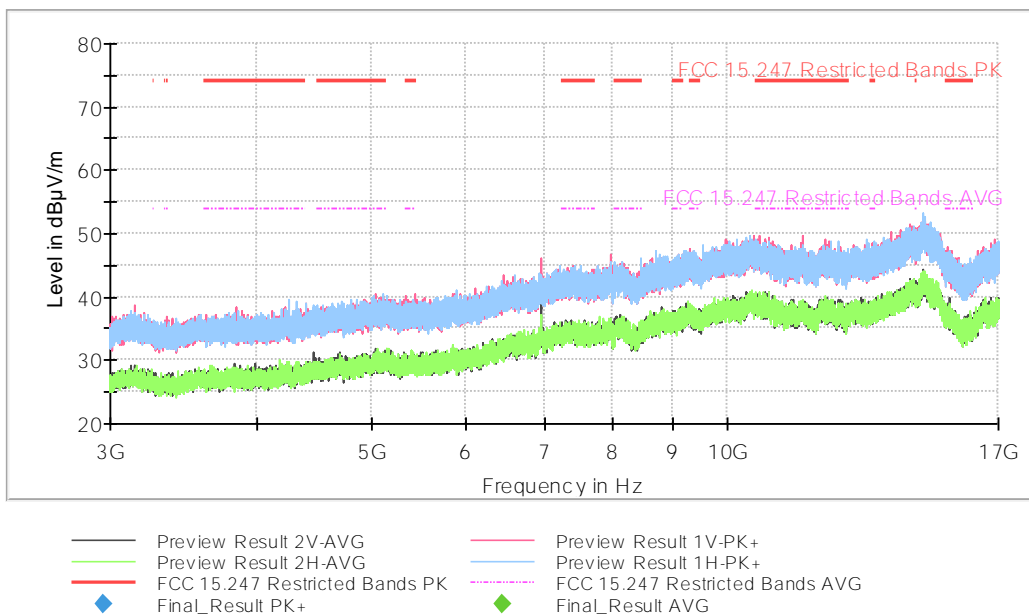
Plots:



Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Frequency (MHz) = 2441.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (Pi/4 DQPSK 2-DH5), Frequency Range (GHz) = [3, 17]

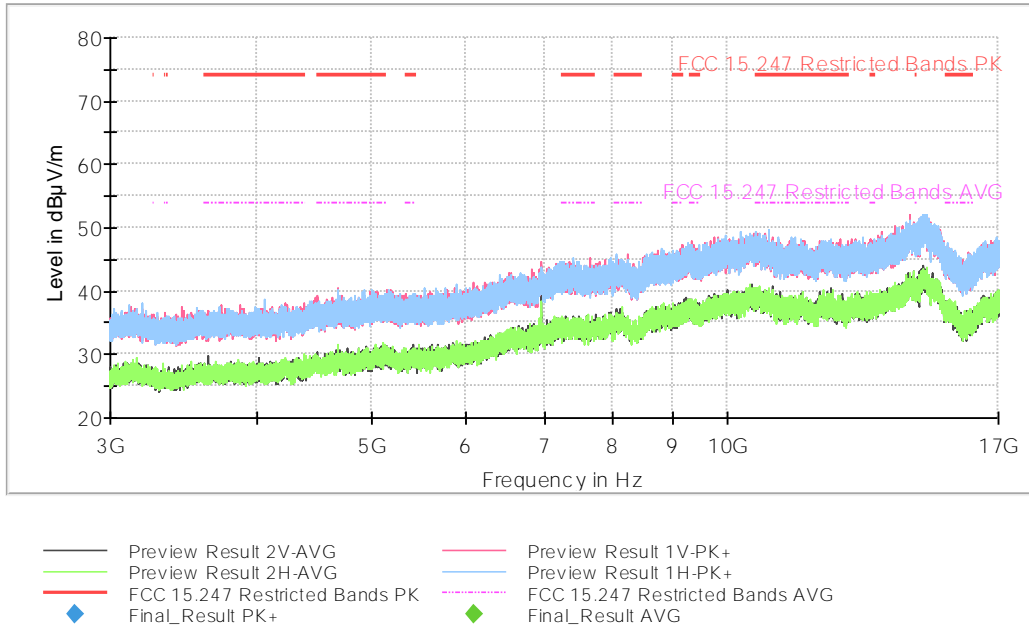
Plots:



Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Frequency (MHz) = 2480.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (Pi/4 DQPSK 2-DH5), Frequency Range (GHz) = [3, 17]

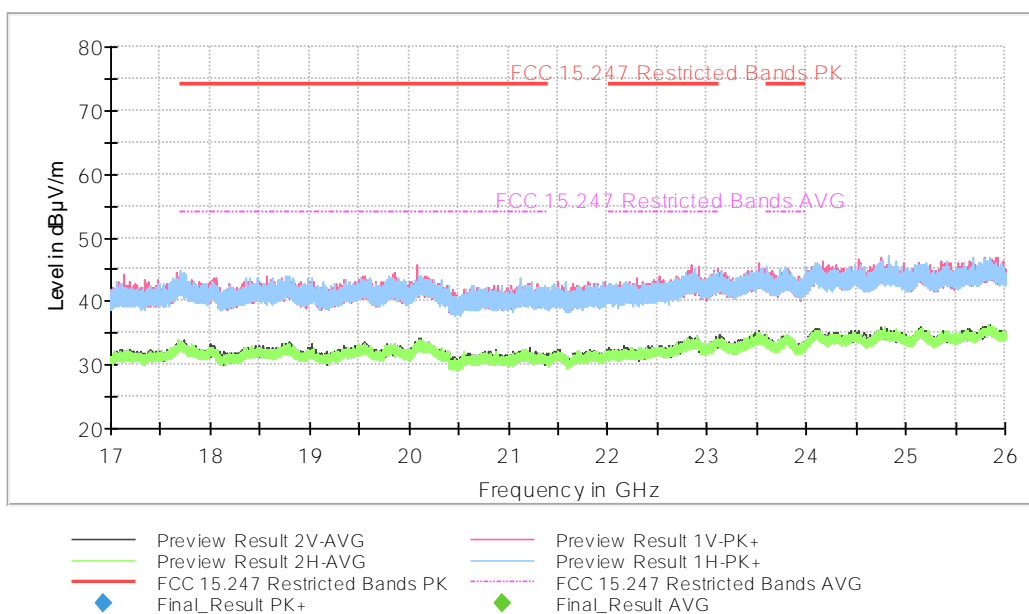
Plots:



Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (Pi/4 DQPSK 2-DH5), Frequency Range (GHz) = [17, 26]

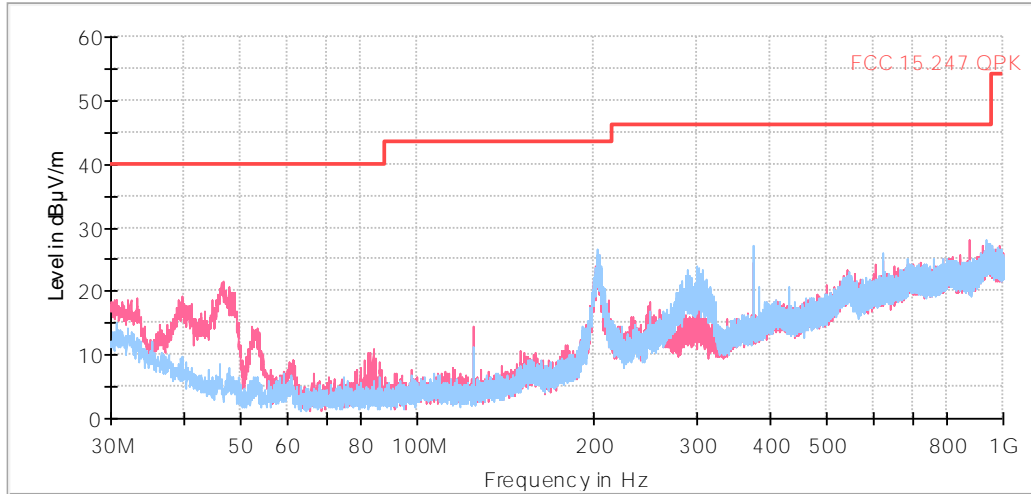
Plots:



This plot is valid for Low, Middle and High Channels.
 Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 32001

Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5),
Frequency Range (GHz) = [0.03, 1]

Plots:

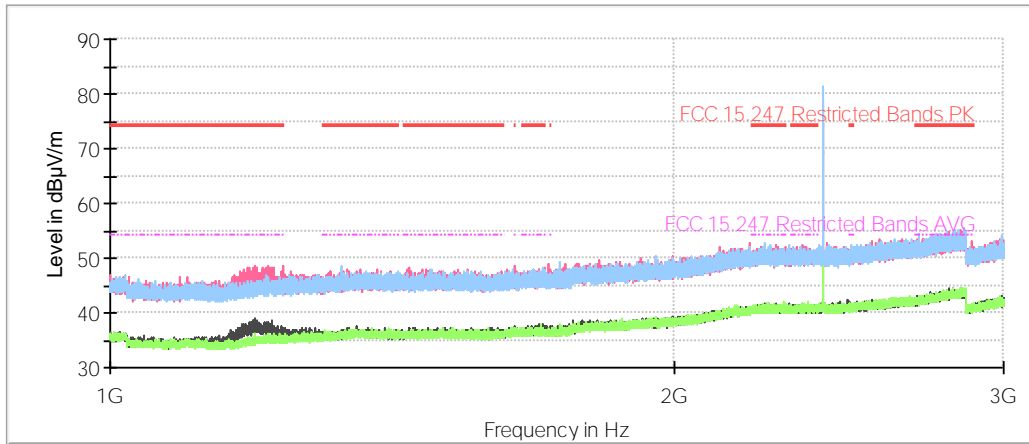


◆ Preview Result 1V-PK+ Final_Result QPK ◆ Preview Result 1H-PK+ Final_Result PK+ — FCC 15.247 QPK

This plot is valid for Low, Middle and High Channels.
Settings: RBW = 100 kHz / VBW = 300 kHz / Sweep Time = 1s / Sweep points = 32001

Frequency (MHz) = 2402.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [1, 3]

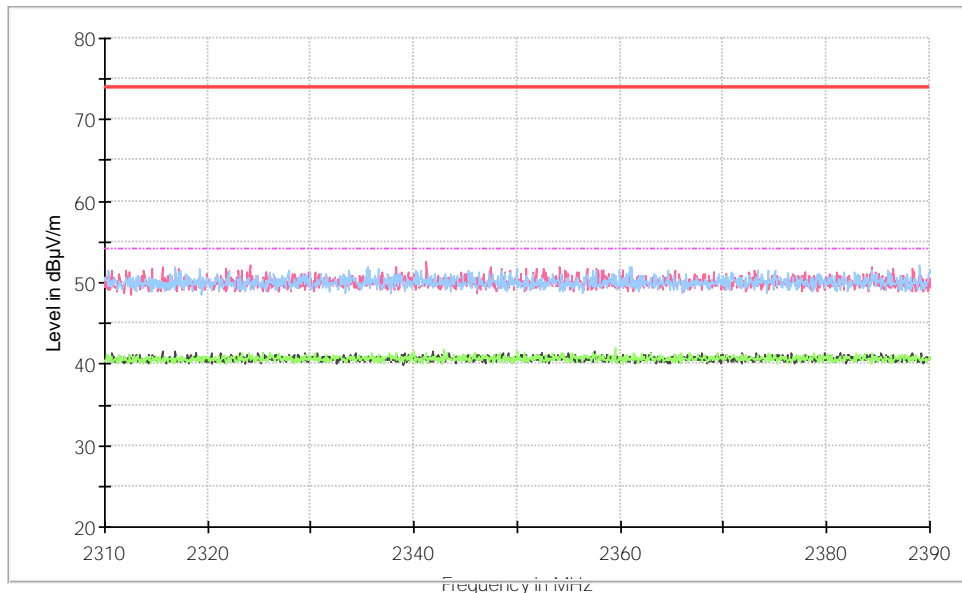
Plots:



- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

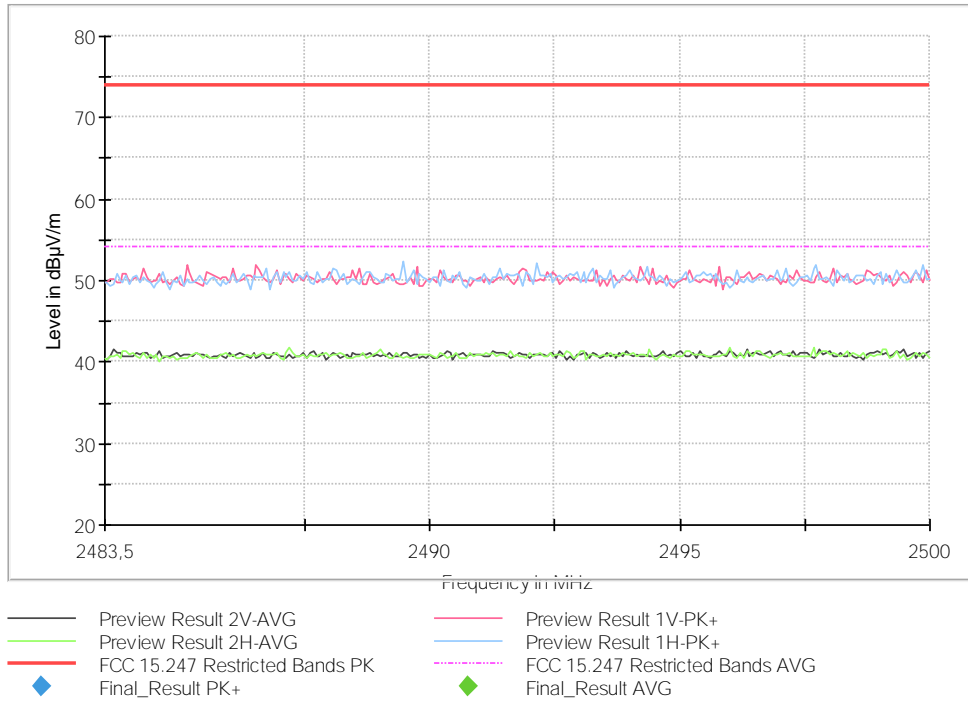
Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 30000

Full Spectrum



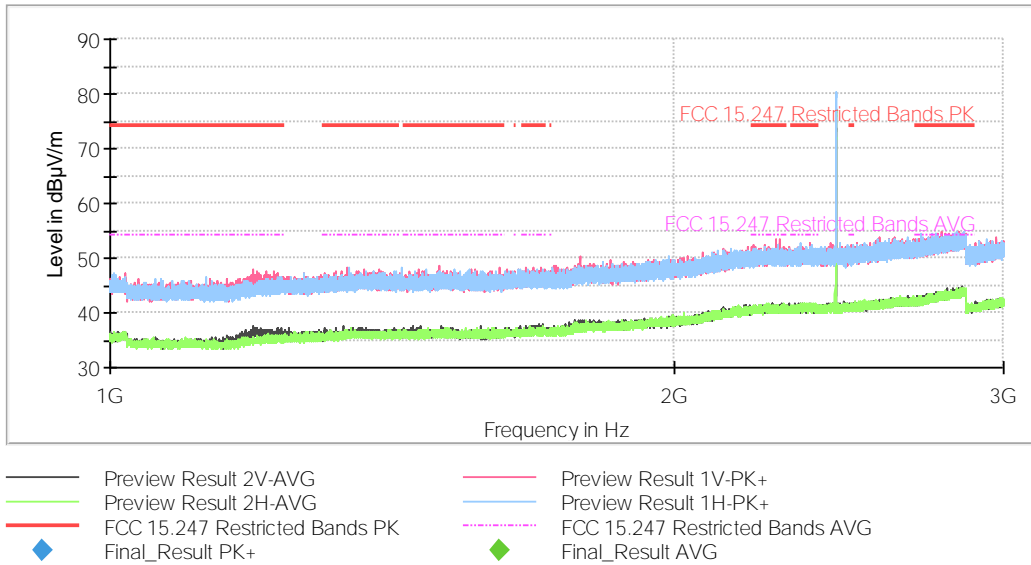
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

Full Spectrum



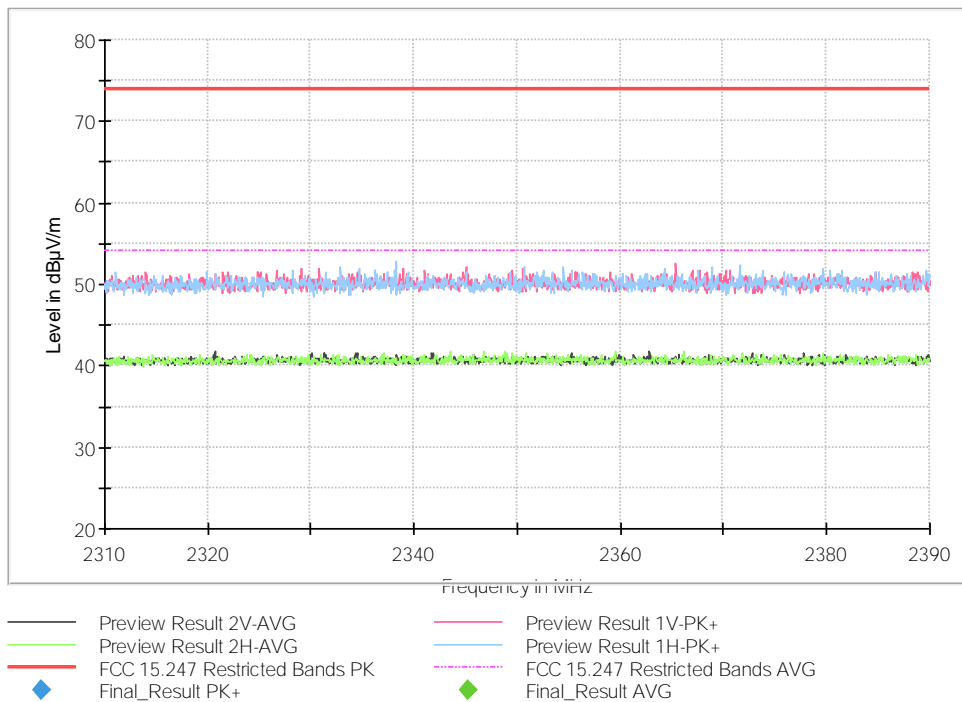
Frequency (MHz) = 2441.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [1, 3]

Plots:

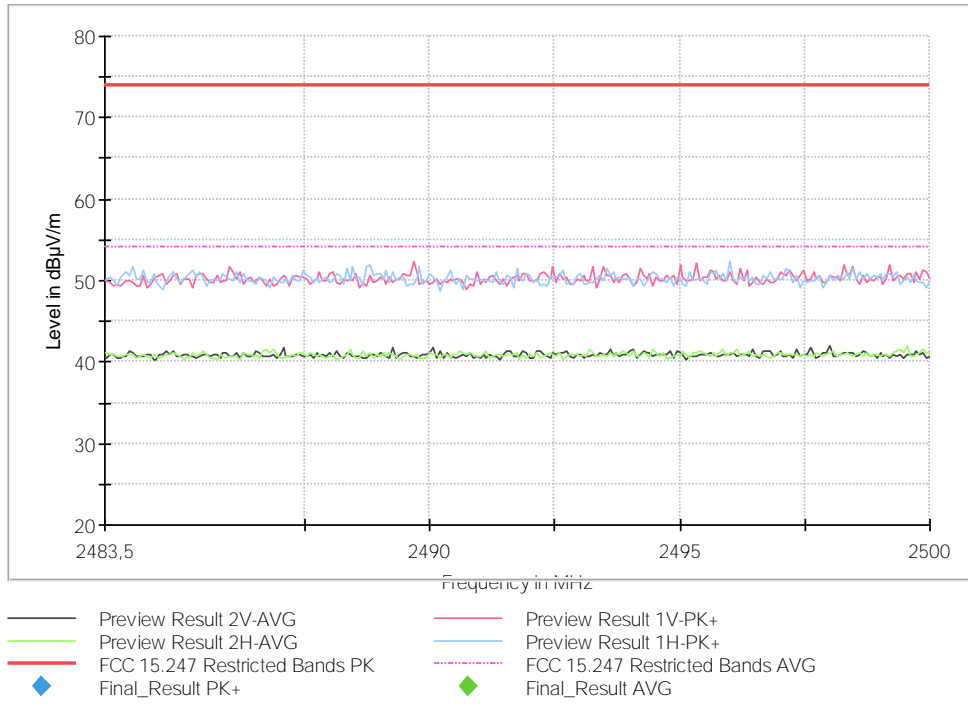


Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 30000

Full Spectrum

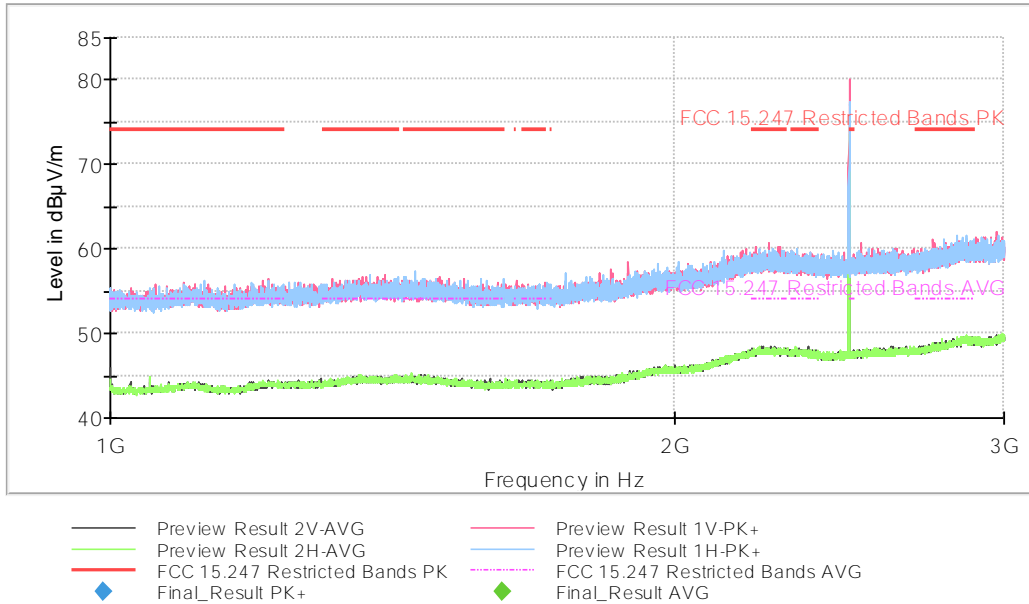


Full Spectrum



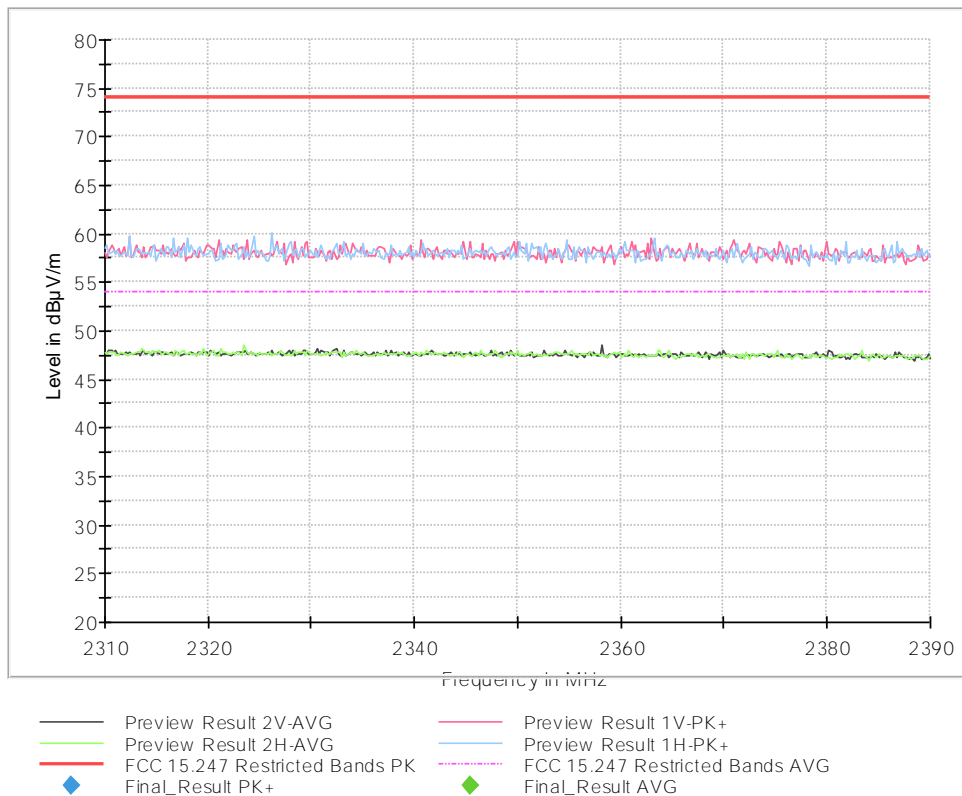
Frequency (MHz) = 2480.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [1, 3]

Plots:

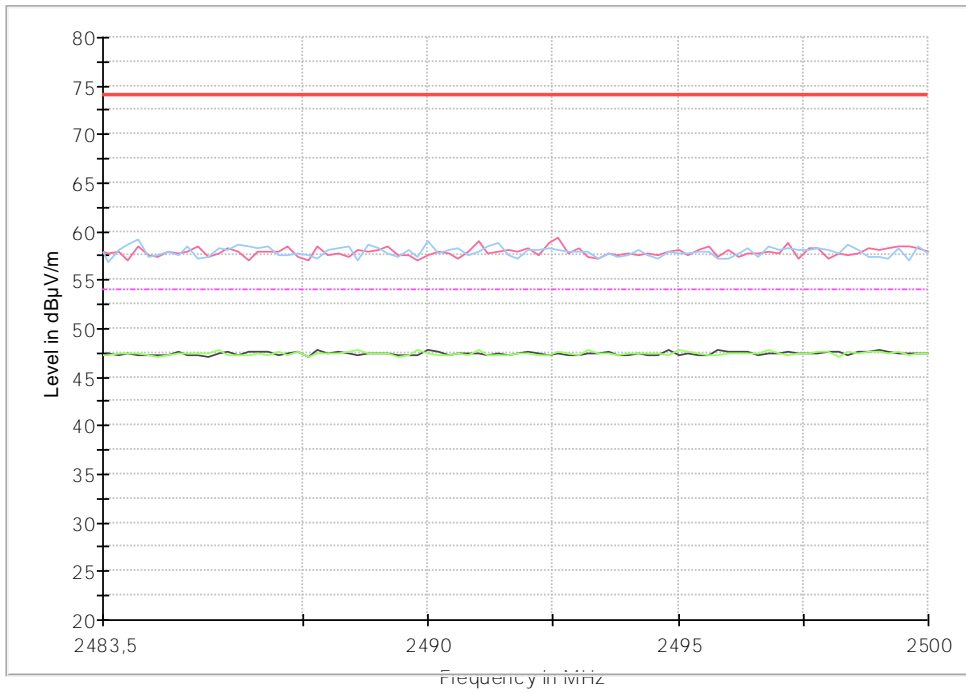


Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 30000

Full Spectrum



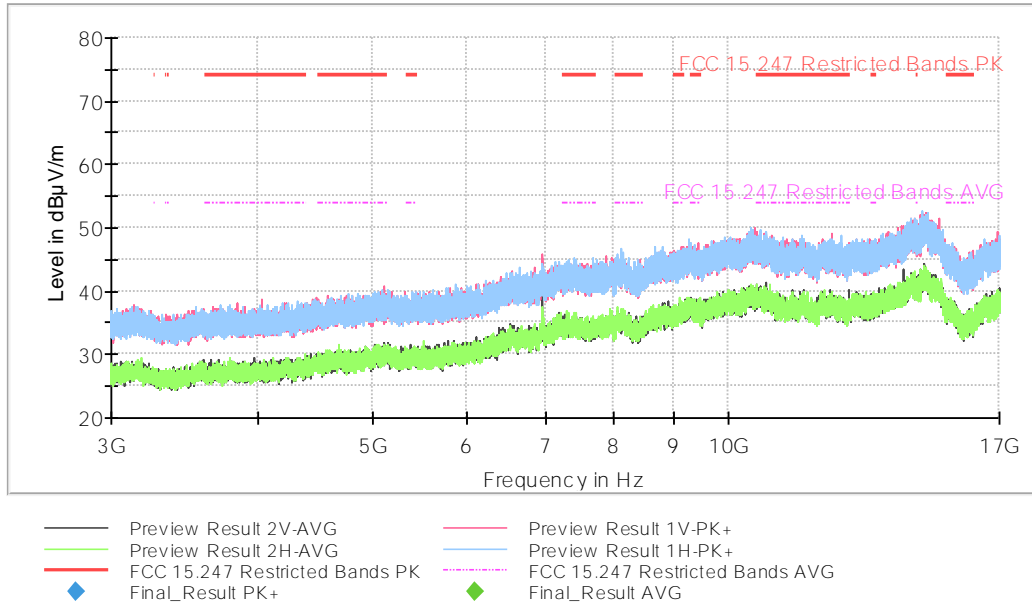
Full Spectrum



- | | | | |
|---|--------------------------------|---|---------------------------------|
| — | Preview Result 2V-AVG | — | Preview Result 1V-PK+ |
| — | Preview Result 2H-AVG | — | Preview Result 1H-PK+ |
| — | FCC 15.247 Restricted Bands PK | — | FCC 15.247 Restricted Bands AVG |
| ◆ | Final_Result PK+ | ◆ | Final_Result AVG |

Frequency (MHz) = 2402.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [3, 17]

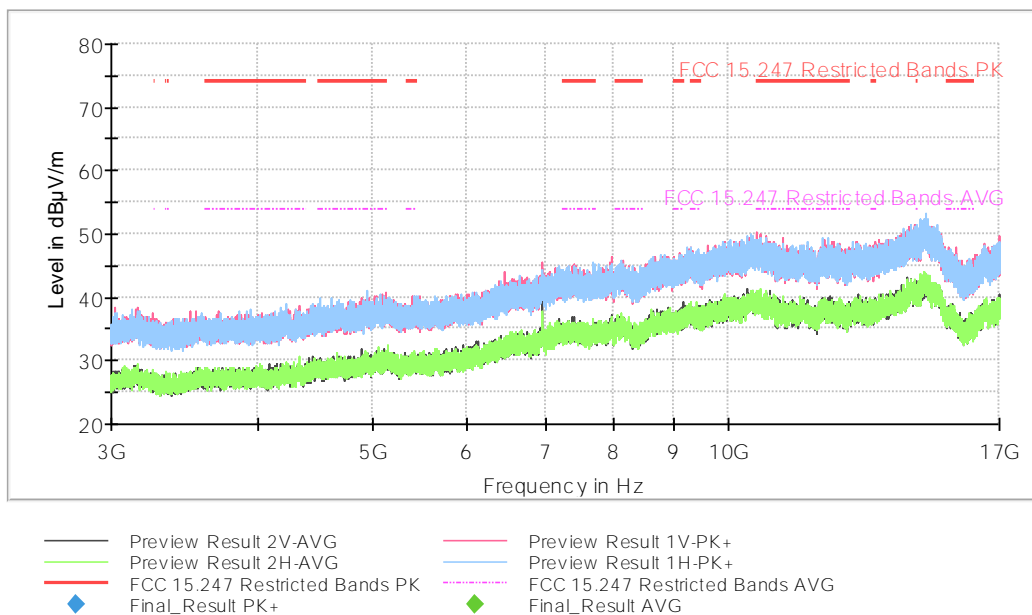
Plots:



Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Frequency (MHz) = 2441.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [3, 17]

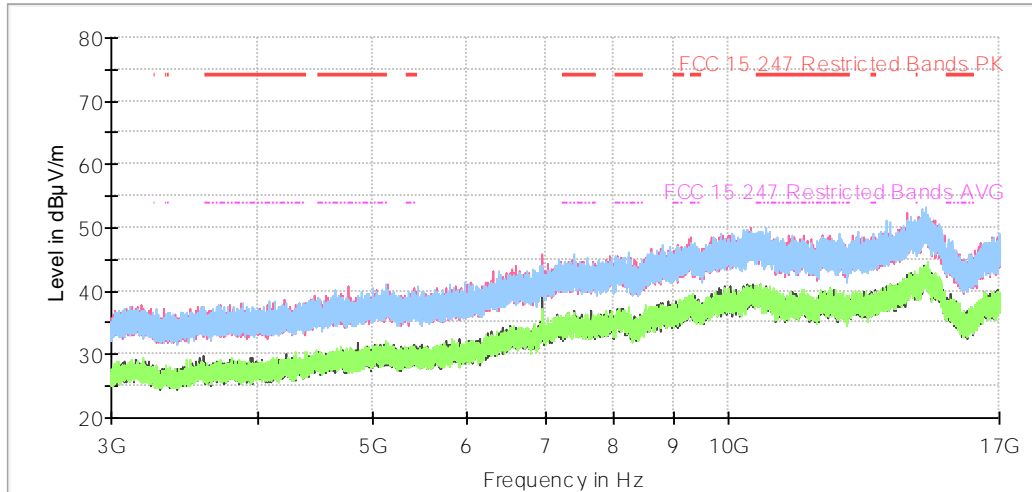
Plots:



Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Frequency (MHz) = 2480.00000, Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [3, 17]

Plots:

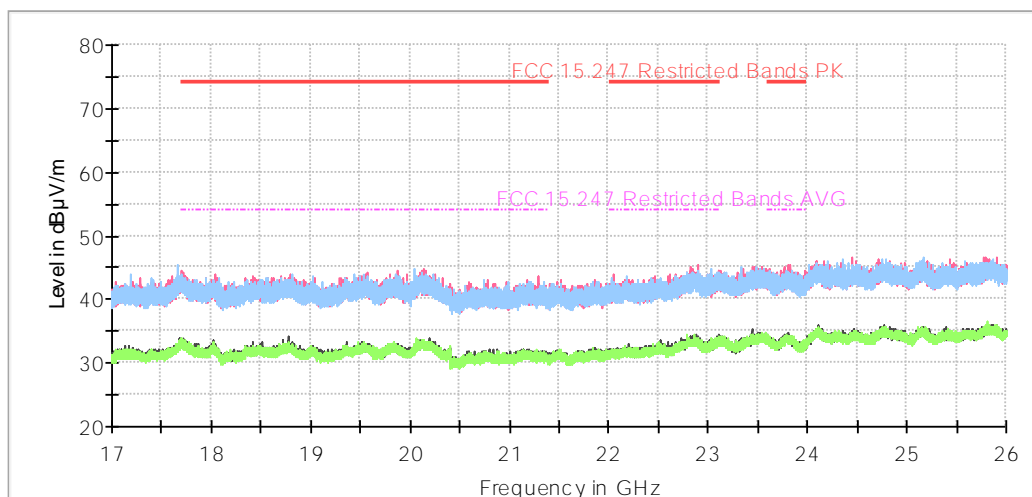


- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 100000

Equipment Type: Frequency Hopping Spread Spectrum systems (DSS), Modulation: BT (8DPSK 3-DH5), Frequency Range (GHz) = [17, 26]

Plots:



- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

This plot is valid for Low, Middle and High Channels.

Settings: RBW = 1 MHz / VBW = 3 MHz / Sweep Time = 1s / Sweep points = 32001

Appendix B: Test results. 802.11 b/g/n20/n40 1x1

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TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 12 Vdc
 Type of Power Supply: External DC.

ANTENNA (*):

- Internal antenna (Antenova SR4W030)
 Maximum Declared Antenna Gain: 5.2 dBi

TEST FREQUENCIES (*):

Operating Channel Bandwidth:	20 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low	2412
	Middle	2437
	High	2462
Operating Channel Bandwidth:	40 MHz	
Transmission Channels:	Channel	Channel Frequency (MHz)
	Low	2422
	Middle	2437
	High	2452

POWER SETTINGS:

The EUT was tested in the following operating mode:

Continuous transmission with a modulated carrier on all required channels selecting the supported data rates/modulations types.

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

The following power settings were used to configure the EUT for the tests:

Modulation	Power setting
802.11b (DSSS 1 Mbit/s)	13 dBm
802.11g (OFDM 6 Mbit/s)	13 dBm
802.11n HT20 (OFDM MCS0 6.5 Mbit/s)	13 dBm
802.11n HT40 (OFDM MCS0 13.5 Mbit/s)	14 dBm

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it connected to the TS8997 RF test bench using a low-loss RF cable.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range from 30 MHz to 1000 MHz and Double ridge horn antenna for the range from 1 GHz to 17 GHz) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

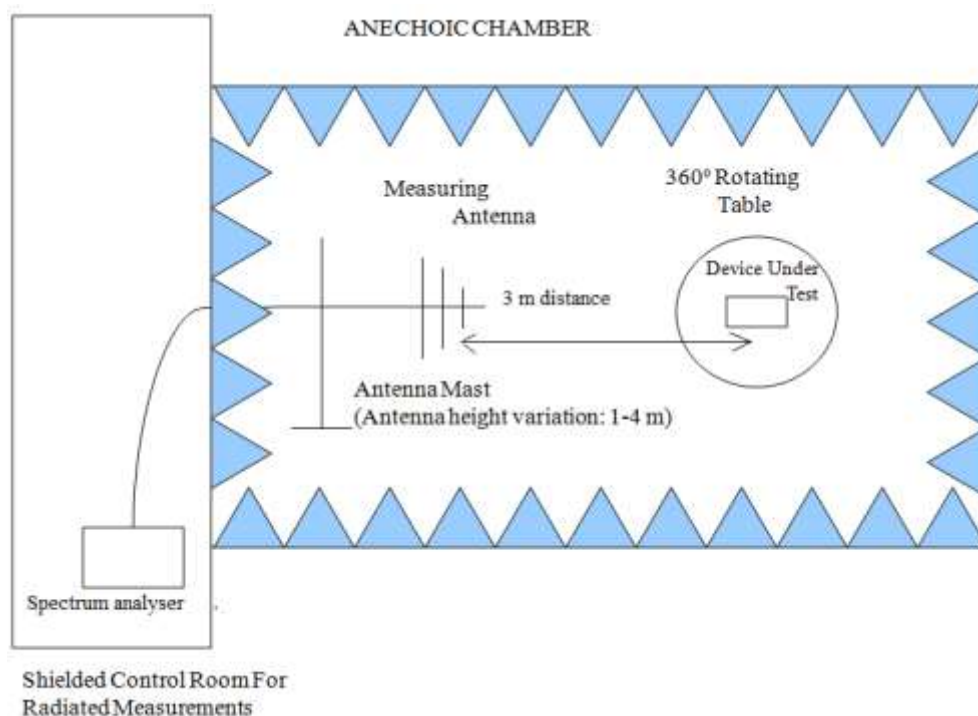
For radiated emissions in the range 17 GHz-26 GHz performed at a distance closer than the specified distance in the standard, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and its situation and orientation were varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

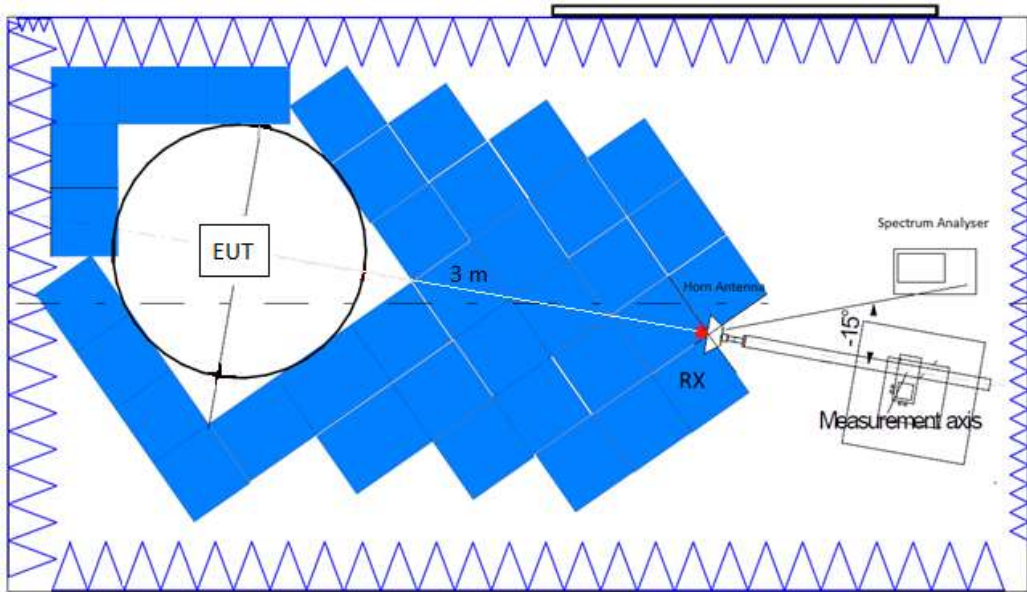
Measurements were made in both horizontal and vertical planes of polarization.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

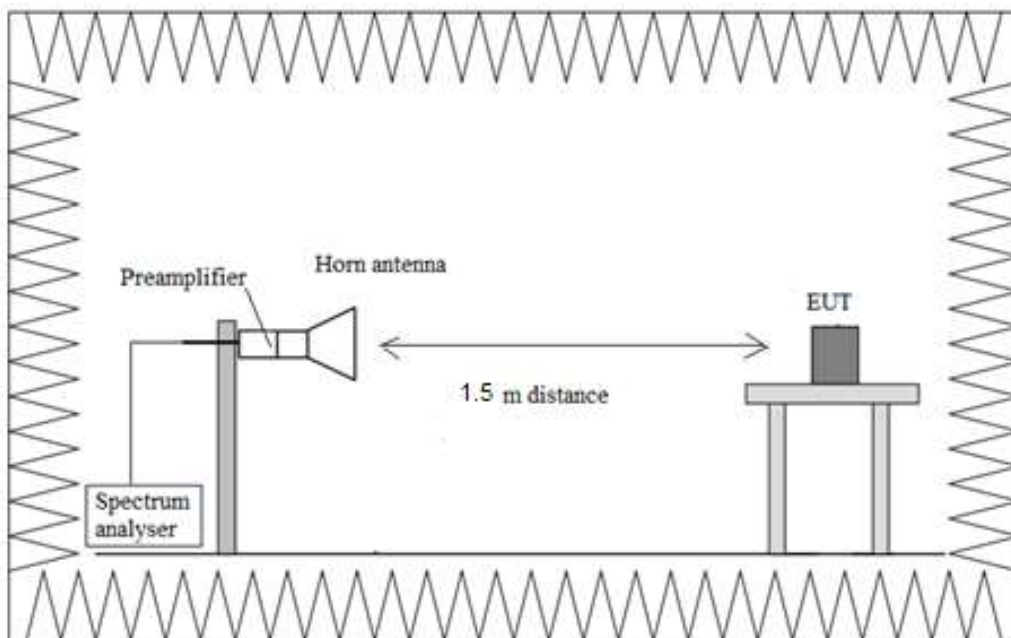
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.247 / RSS-247

Occupied Bandwidth 99%

Results

Modulation: 802.11b (DSSS 1 Mbit/s)

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2412.00	Digital Transmission System (DTS)	13.000000
2437.00		13.100000
2462.00		13.100000

Modulation: 802.11g (OFDM 6 Mbit/s)

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2412.00	Digital Transmission System (DTS)	16.200000
2437.00		16.200000
2462.00		16.200000

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2412.00	Digital Transmission System (DTS)	17.300000
2437.00		17.400000
2462.00		17.300000

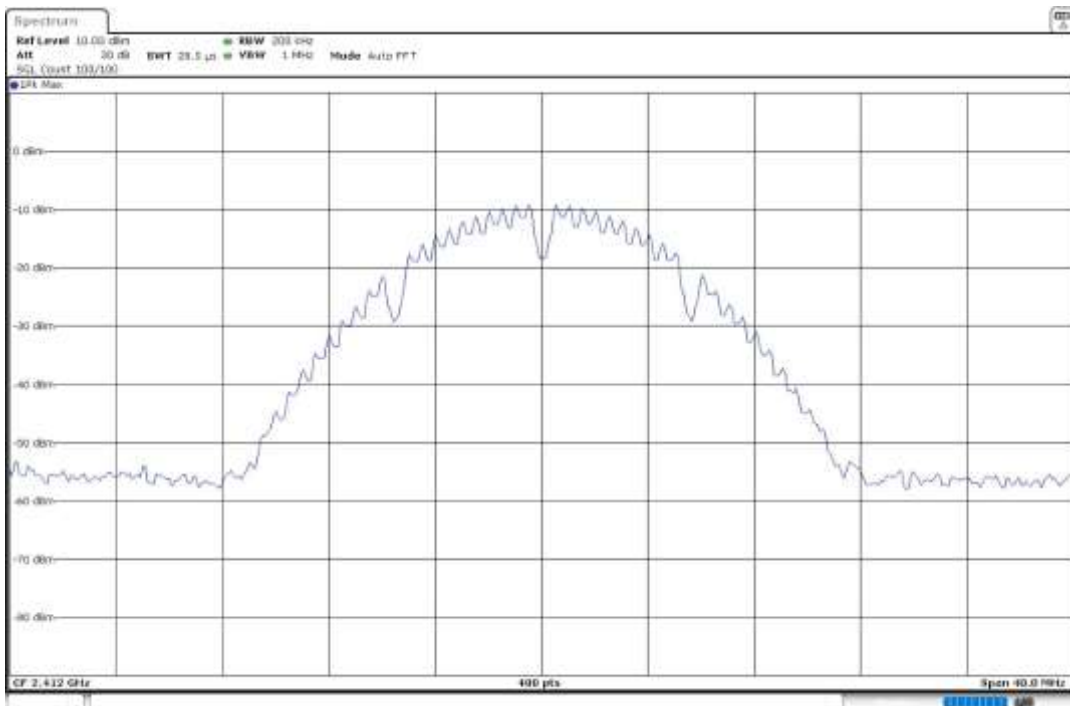
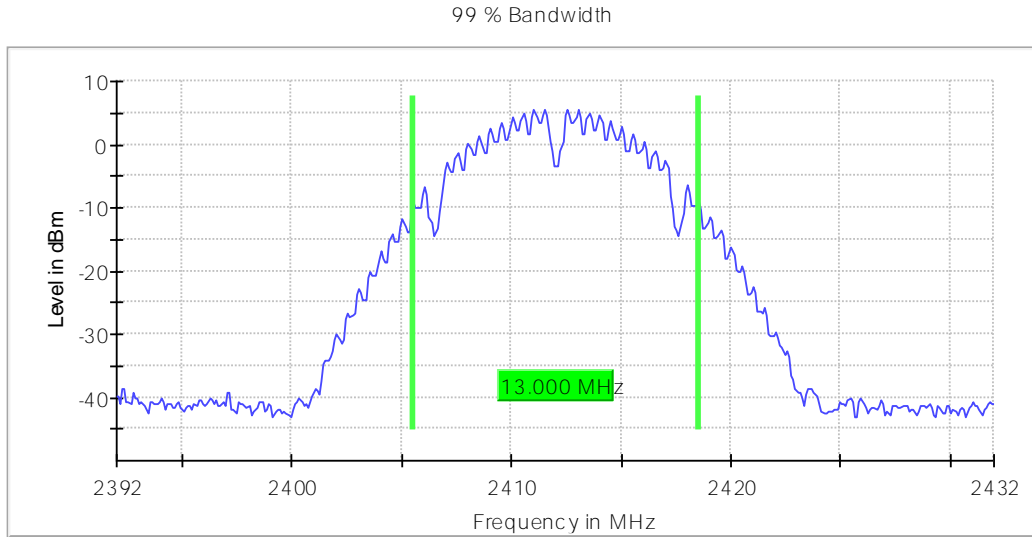
Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2422.00	Digital Transmission System (DTS)	35.750000
2437.00		36.250000
2452.00		36.000000

Attachments

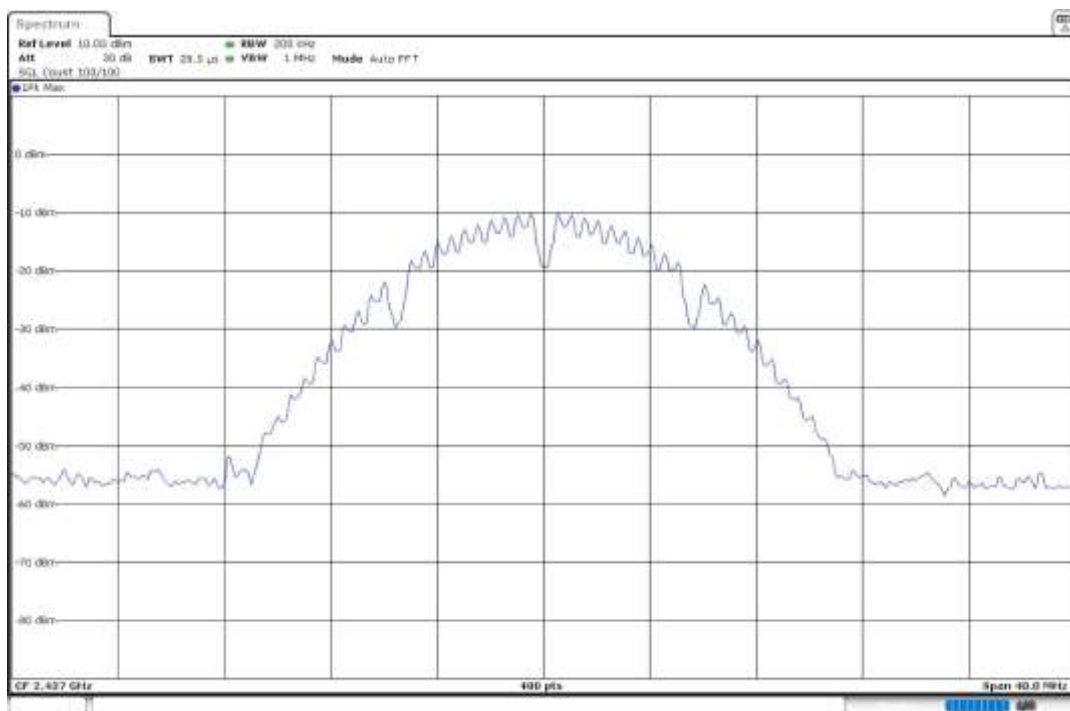
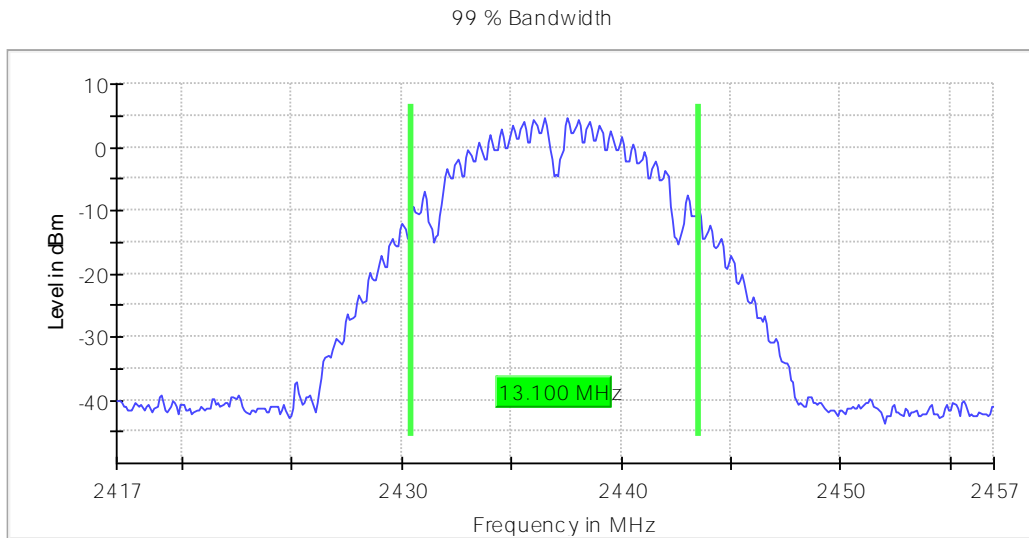
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



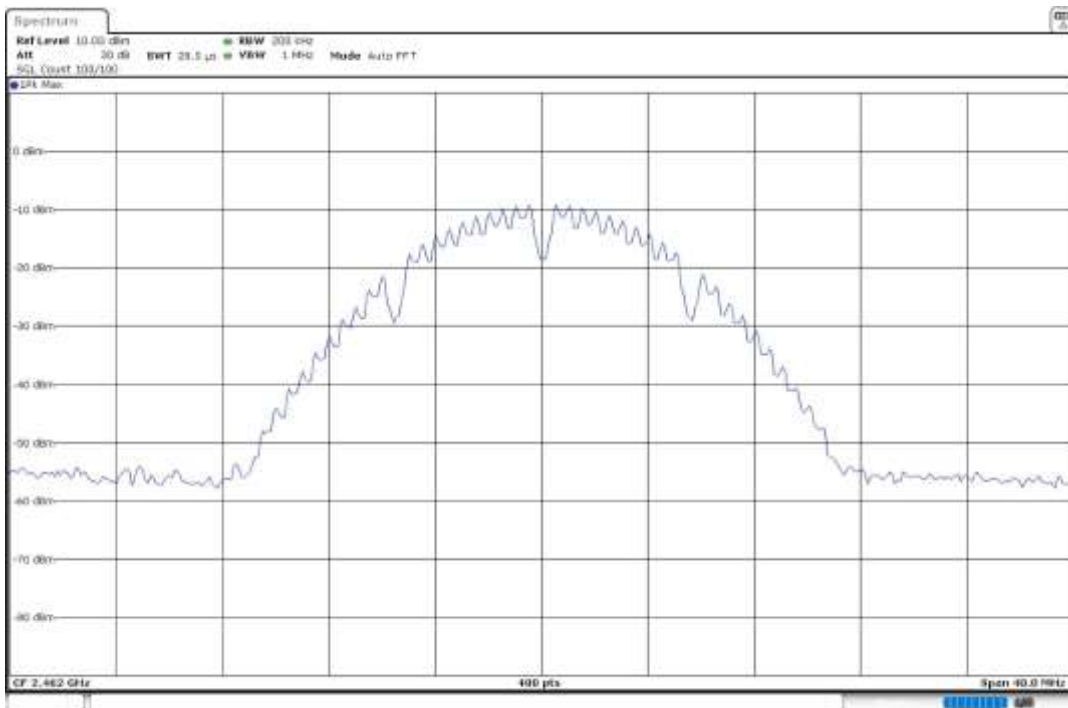
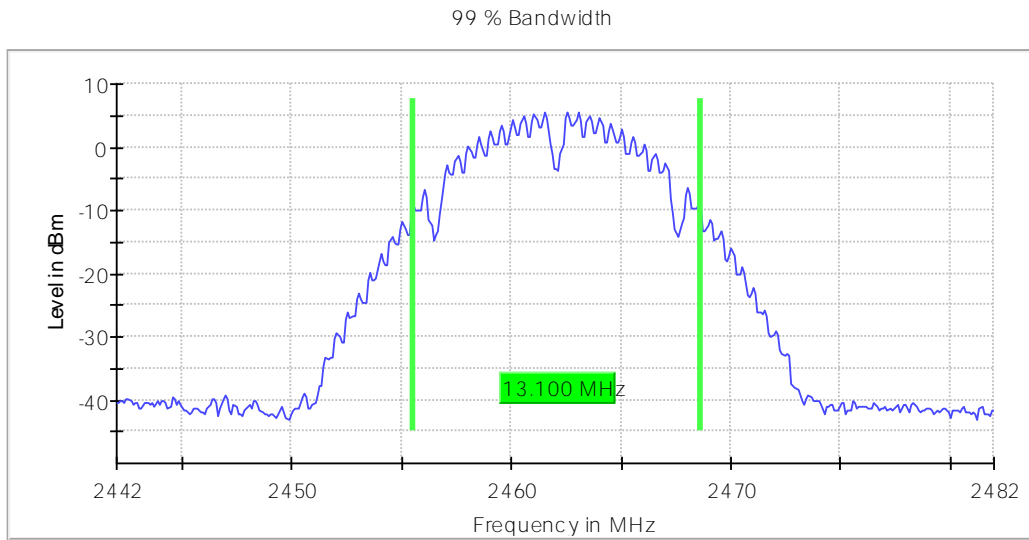
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



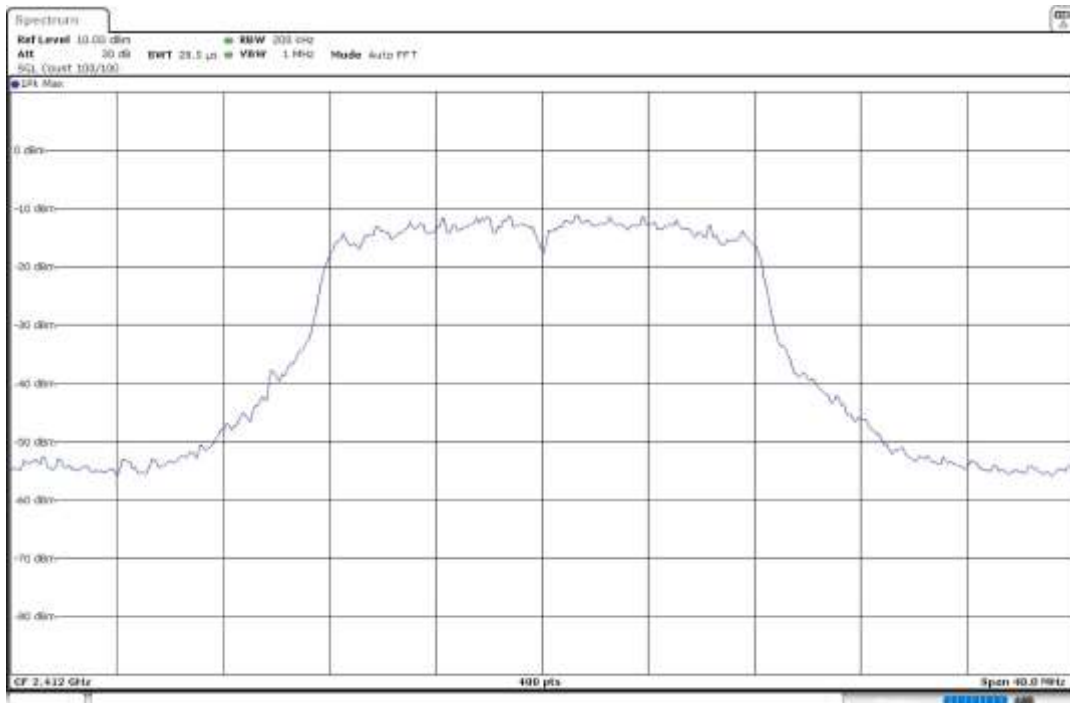
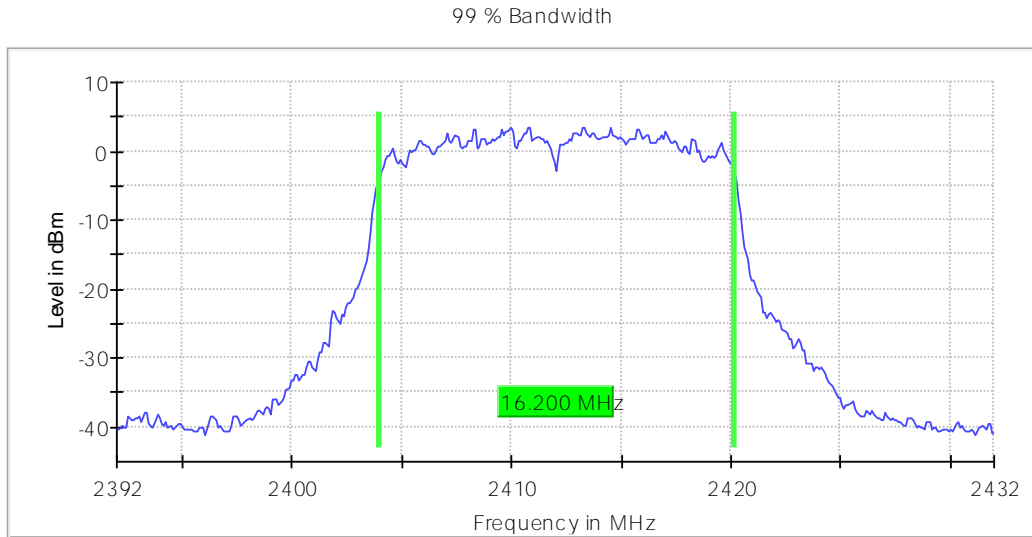
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



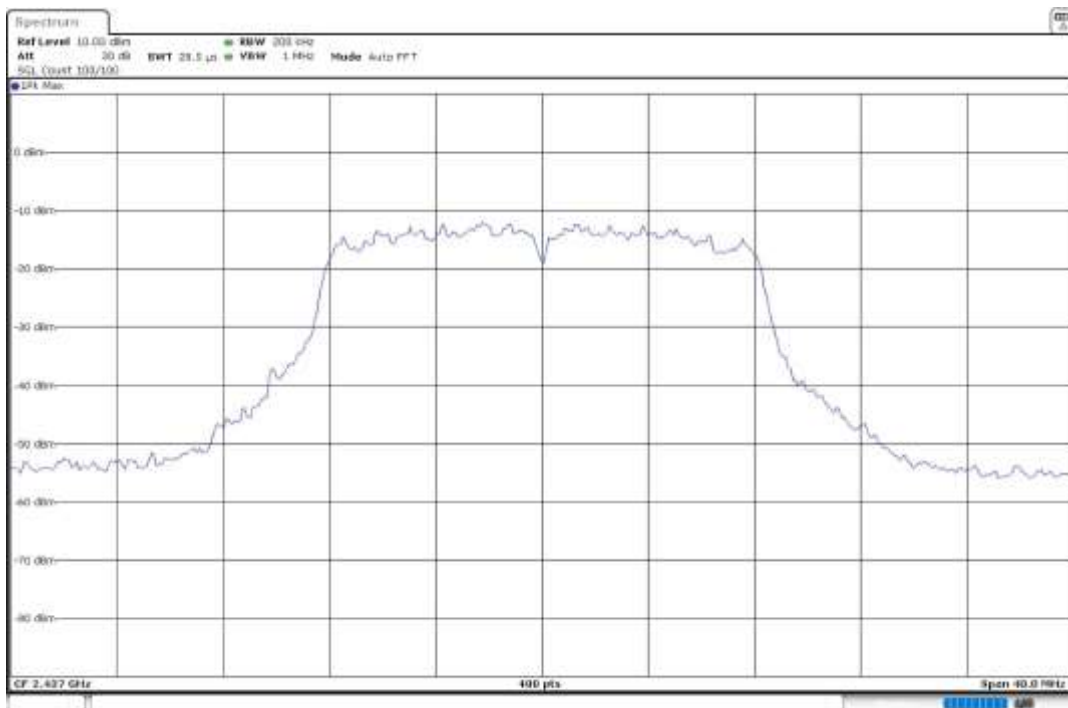
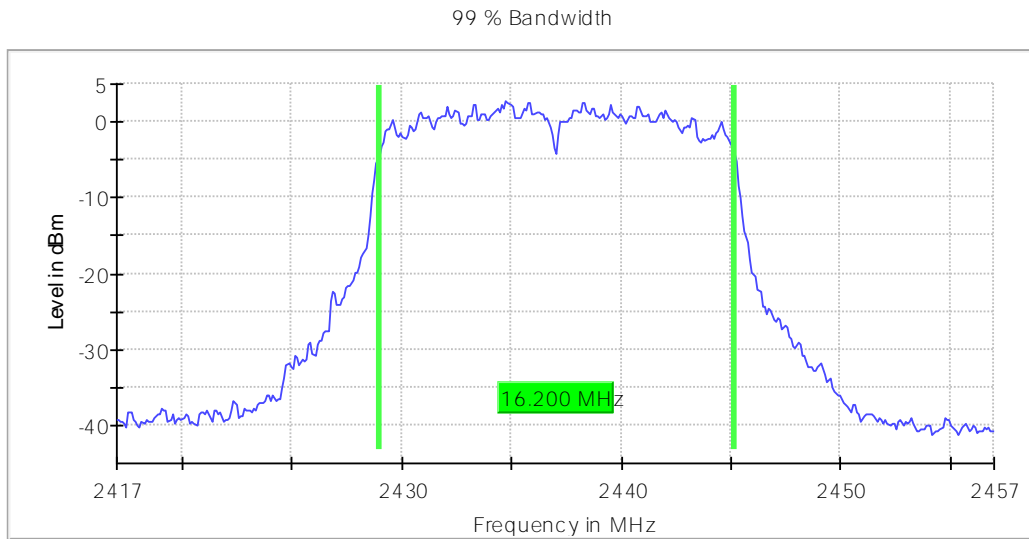
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



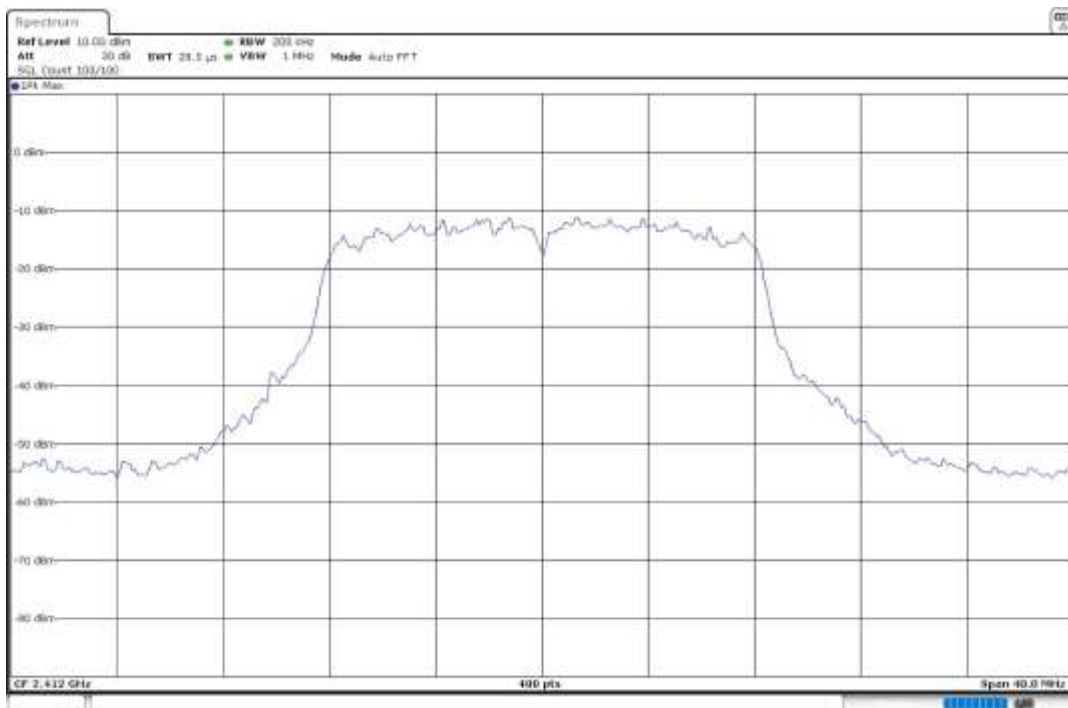
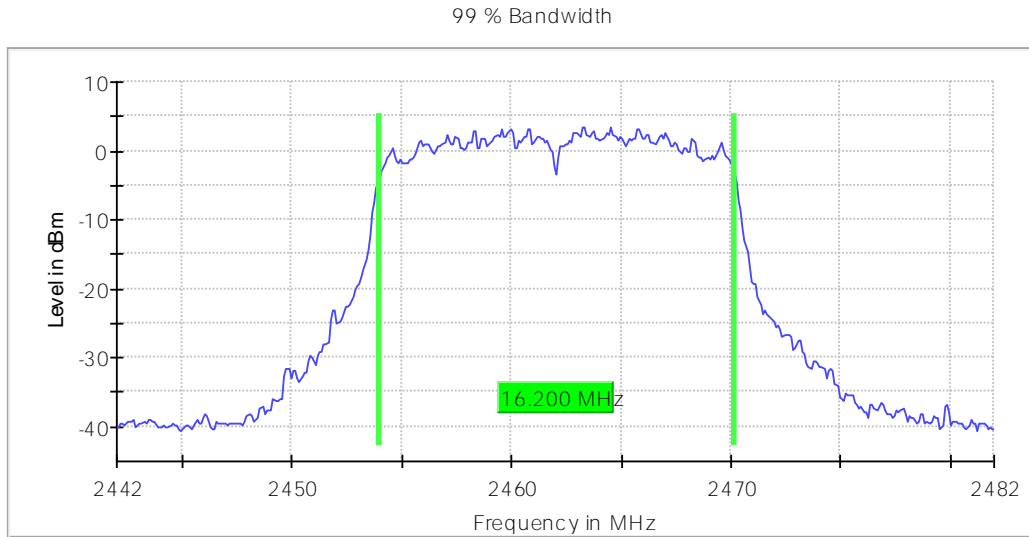
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



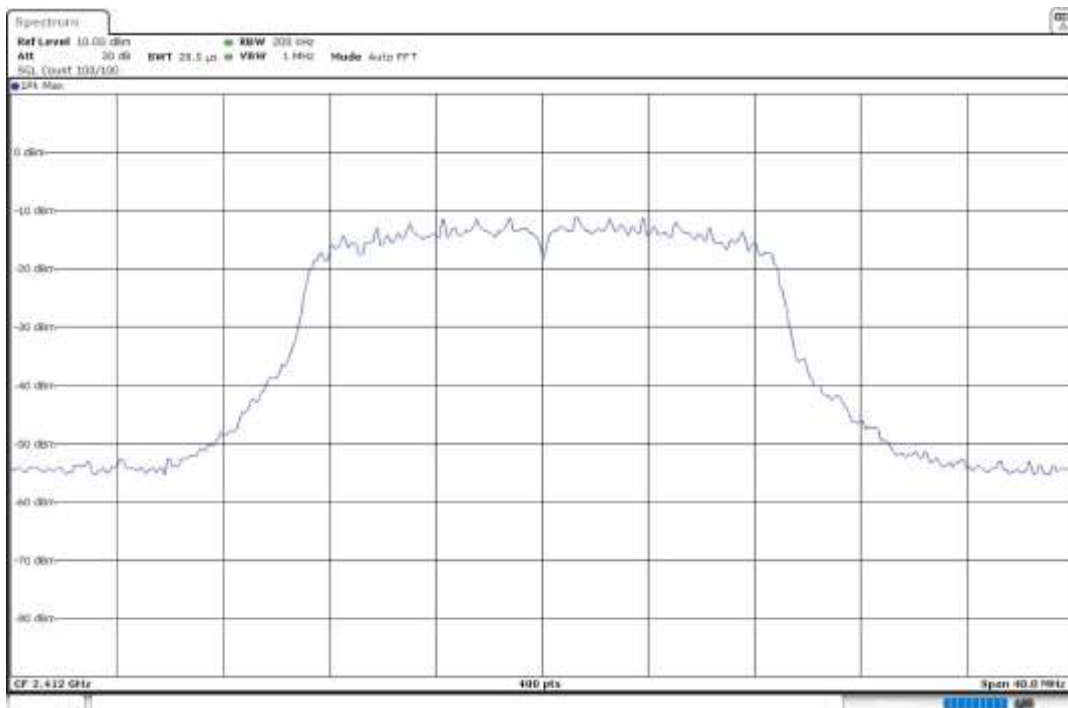
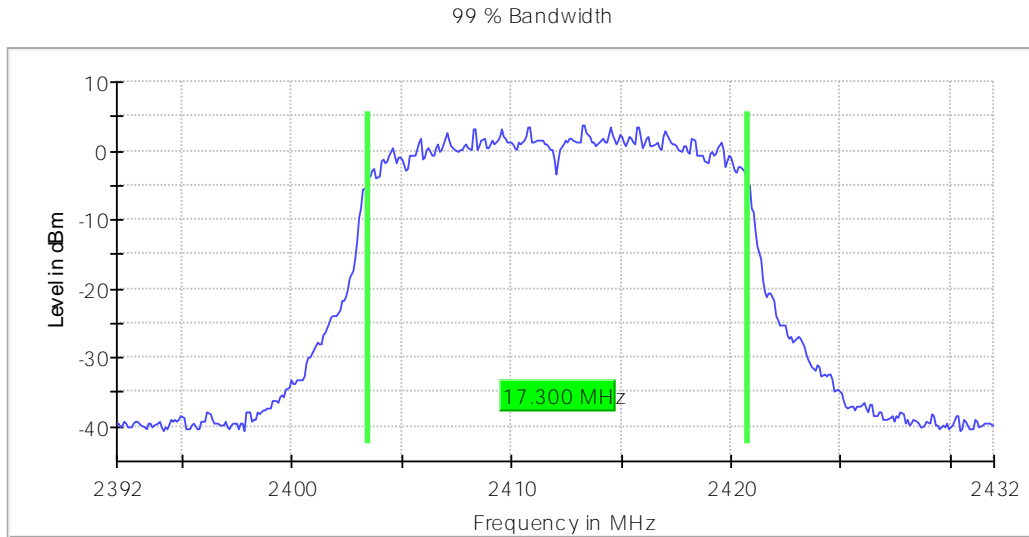
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



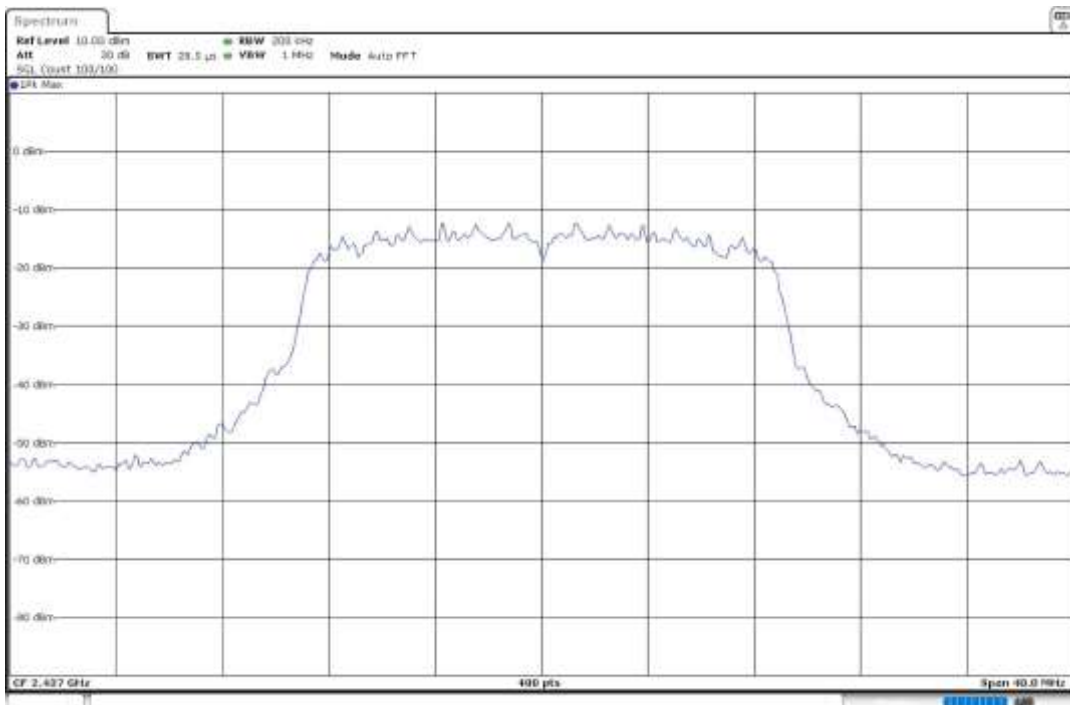
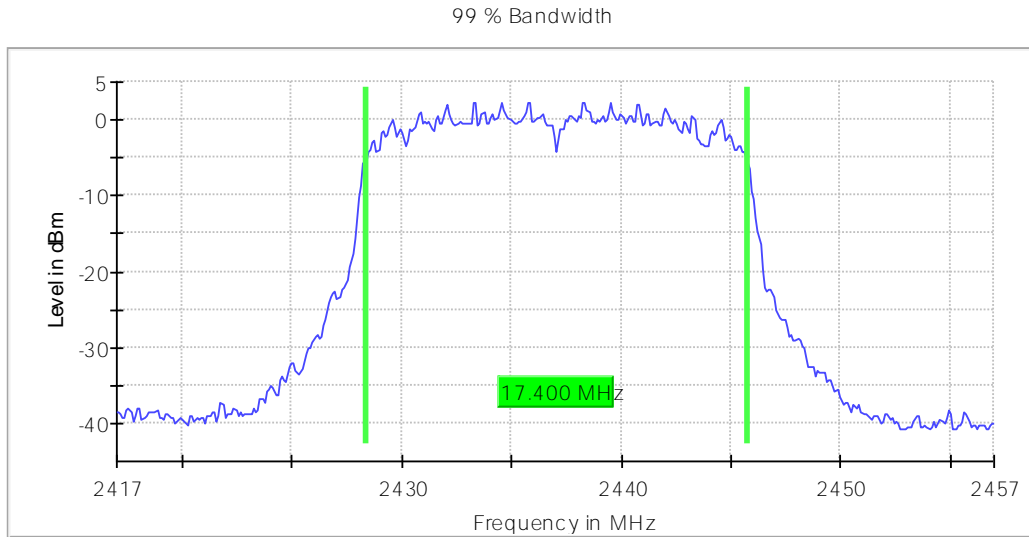
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



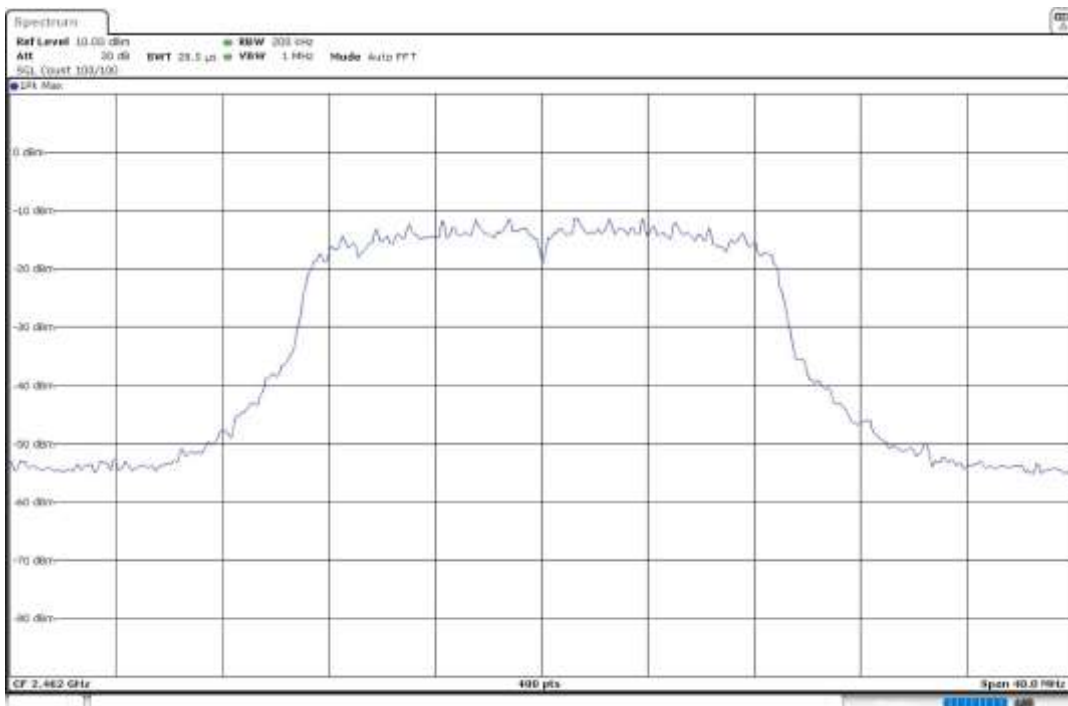
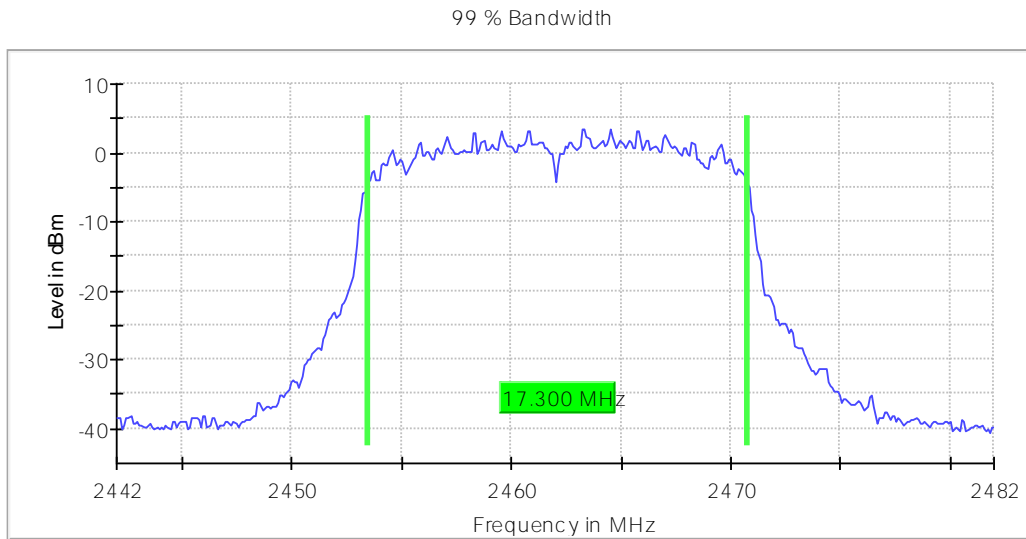
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



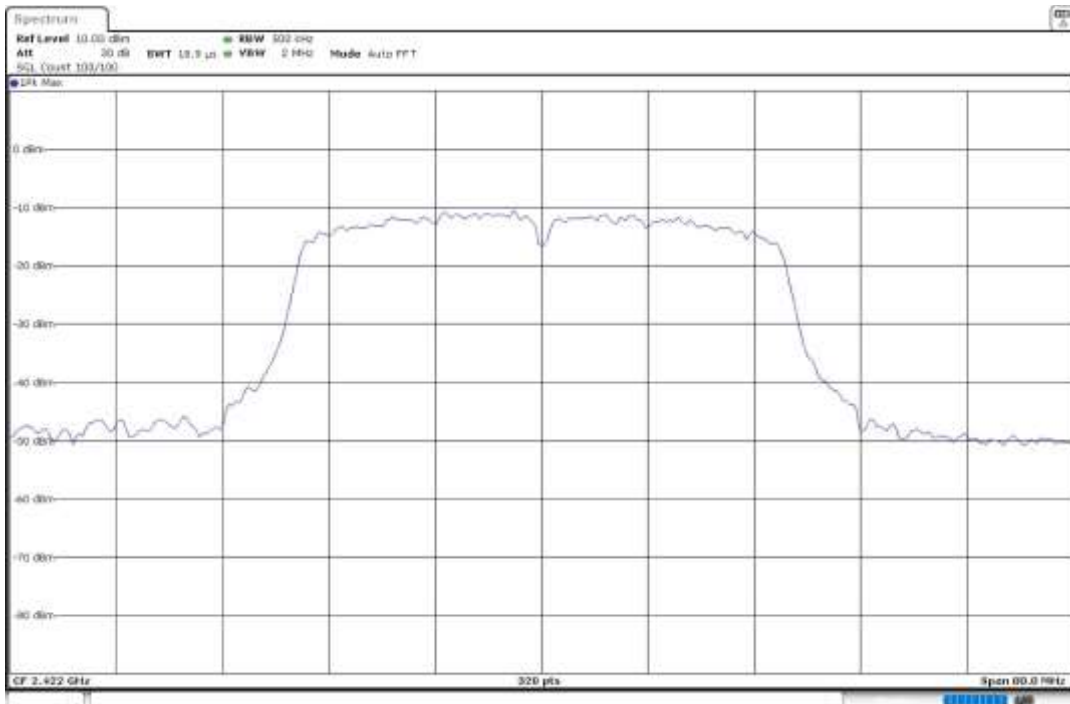
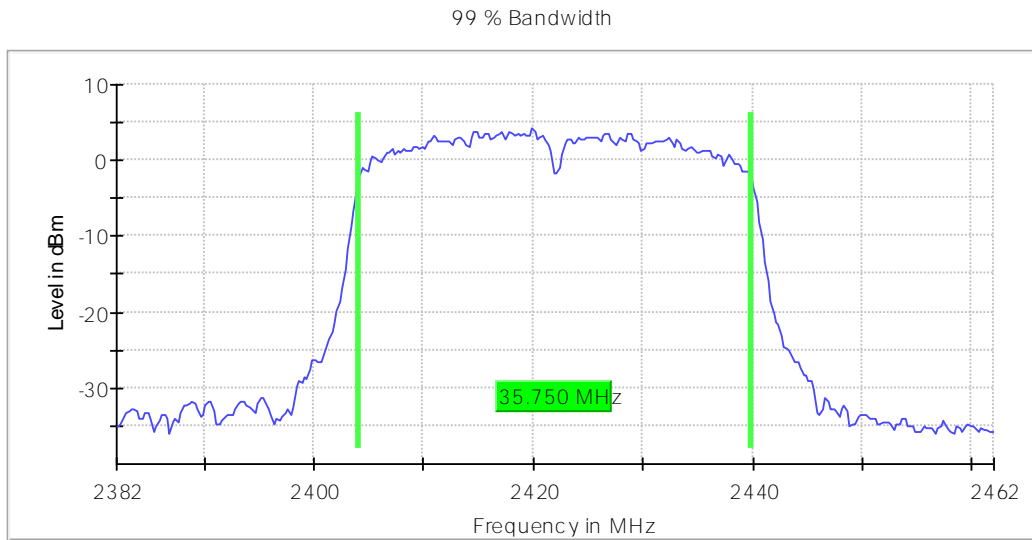
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



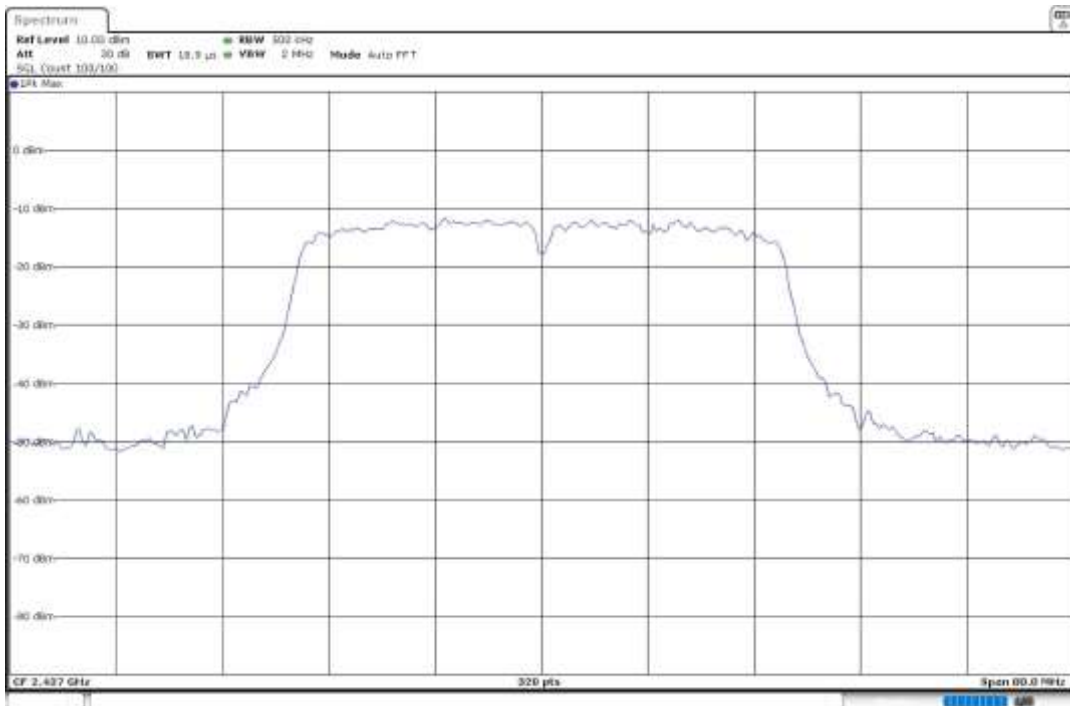
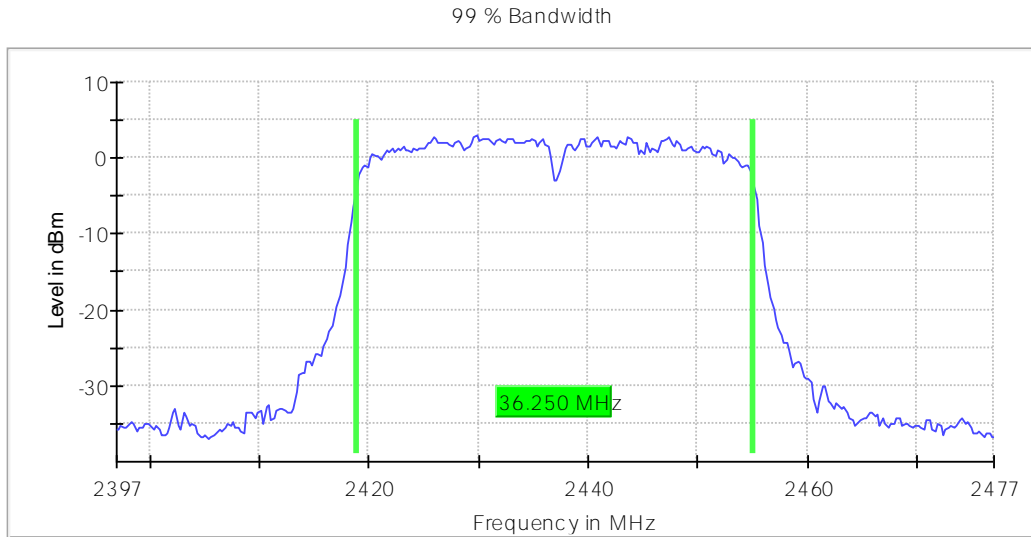
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2422.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



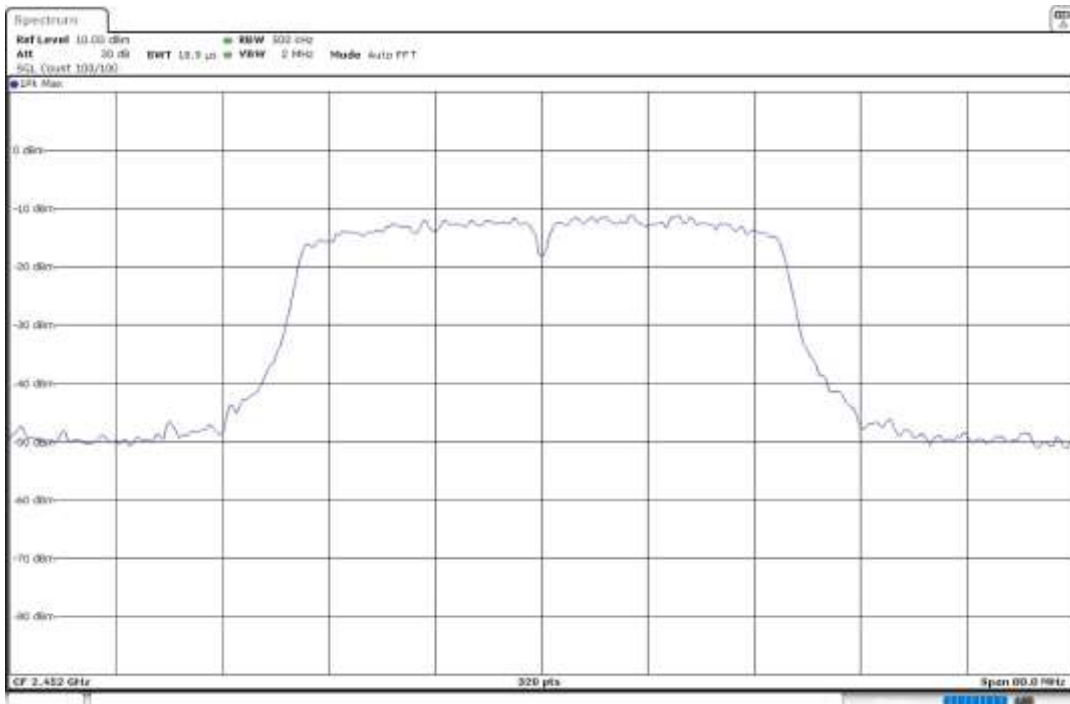
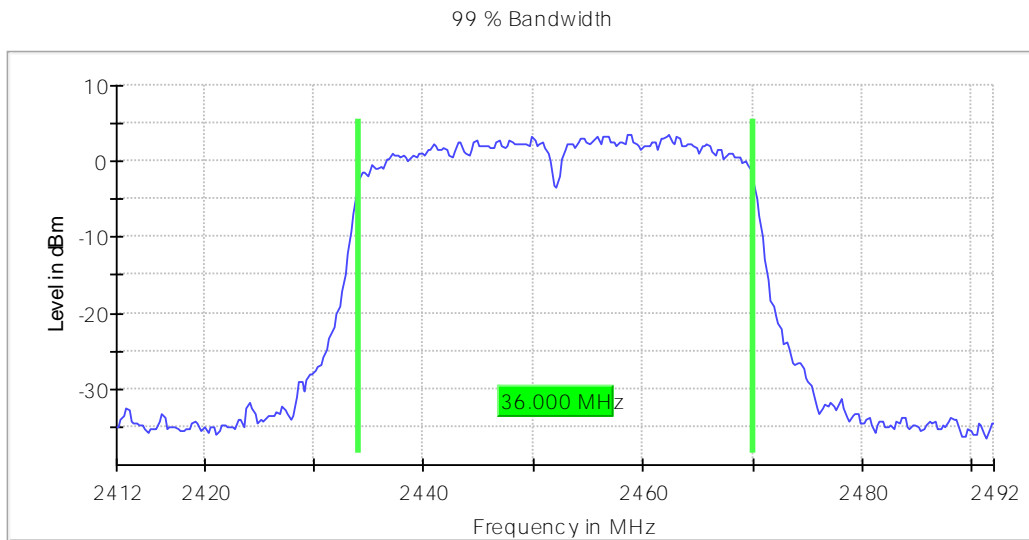
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2452.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



FCC 15.247 (a)(2) / RSS-247 5.2 (a) 6 dB Bandwidth

Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

Results

The 6 dB bandwidth of the fundamental emission was measured according to clause 11.8.1 “DTS bandwidth, Option 1” of ANSI C63.10-2013.

Modulation: 802.11b (DSSS 1 Mbit/s)

Freq (MHz)	Equipment	6dB BW (MHz)
2412.00	Digital Transmission System (DTS)	7.150000
2437.00		8.150000
2462.00		7.150000

Modulation: 802.11g (OFDM 6 Mbit/s)

Freq (MHz)	Equipment	6dB BW (MHz)
2412.00	Digital Transmission System (DTS)	15.250000
2437.00		15.450000
2462.00		15.250000

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Freq (MHz)	Equipment	6dB BW (MHz)
2412.00	Digital Transmission System (DTS)	15.250000
2437.00		15.250000
2462.00		15.250000

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Freq (MHz)	Equipment	6dB BW (MHz)
2422.00	Digital Transmission System (DTS)	35.150000
2437.00		35.200000
2452.00		35.200000

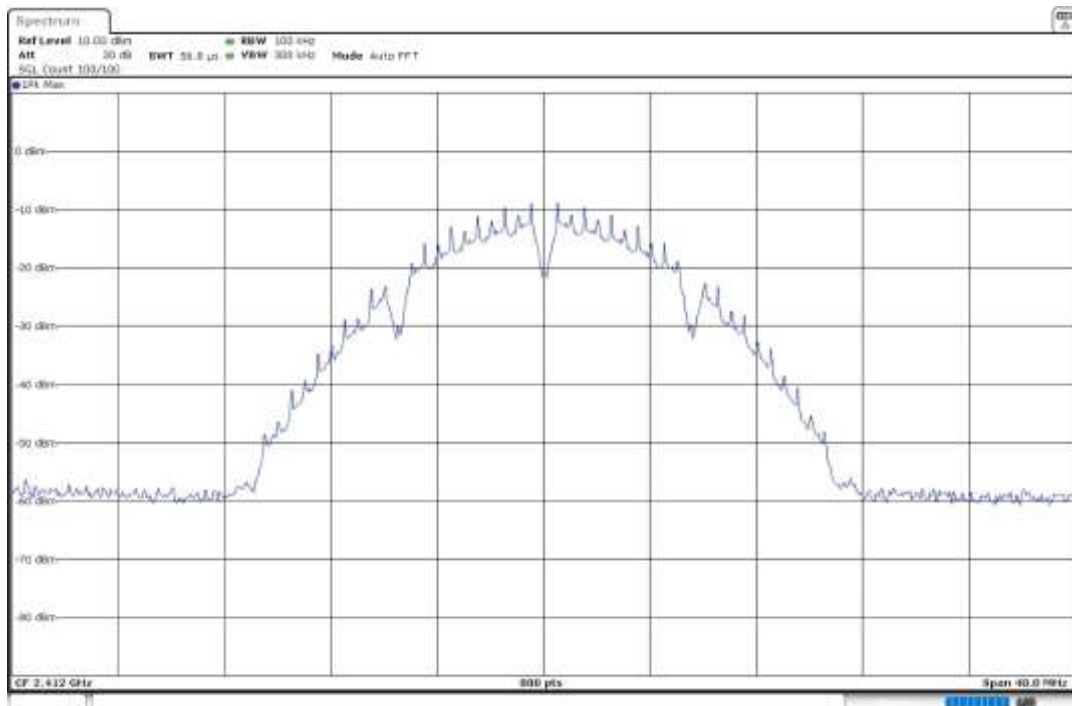
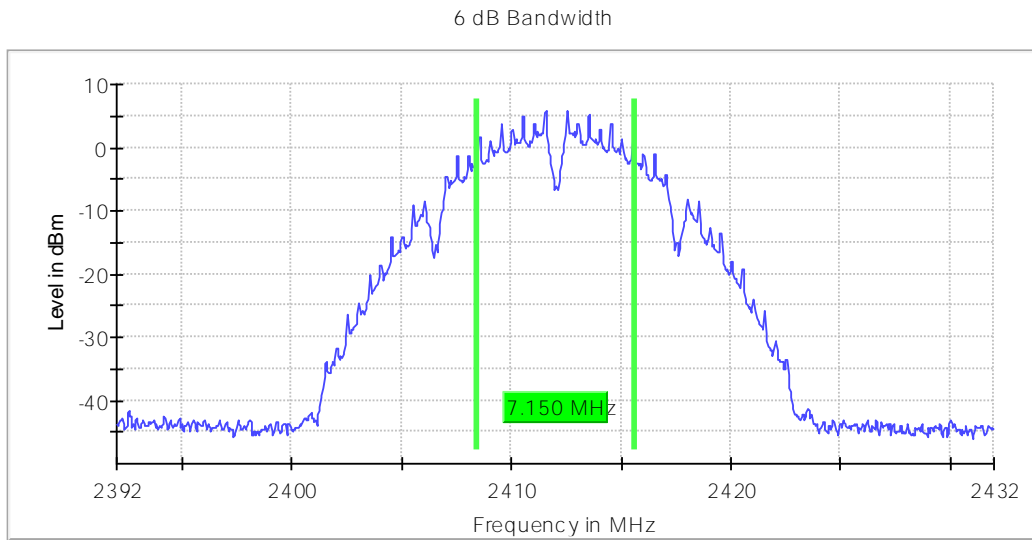
Verdict

Pass

Attachments

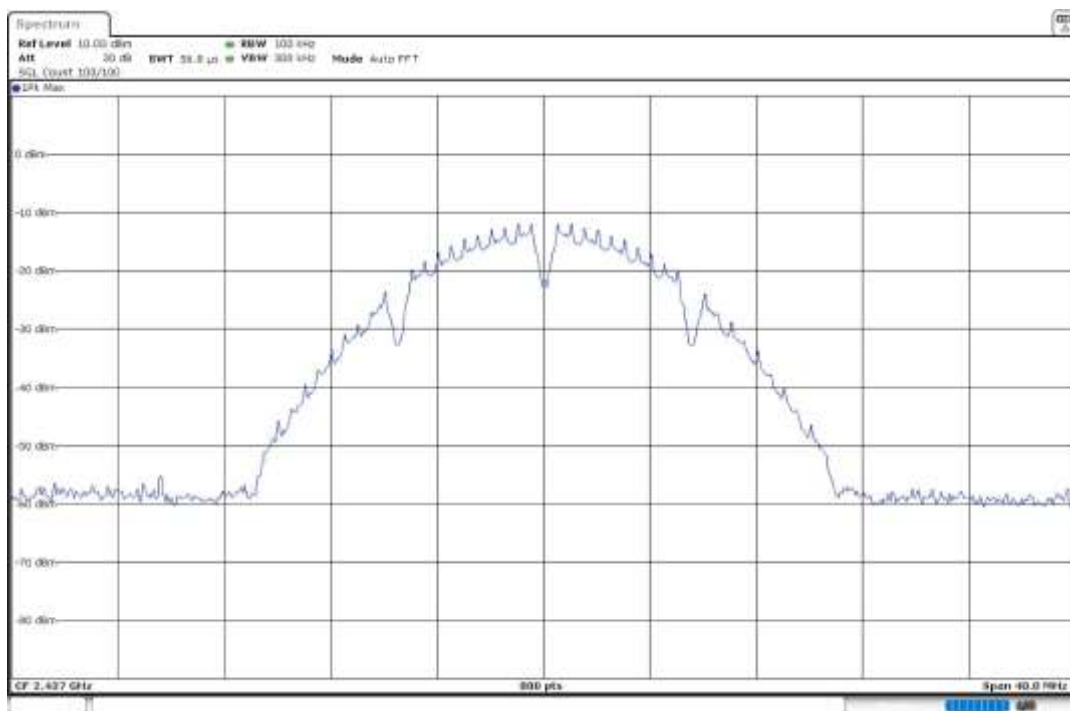
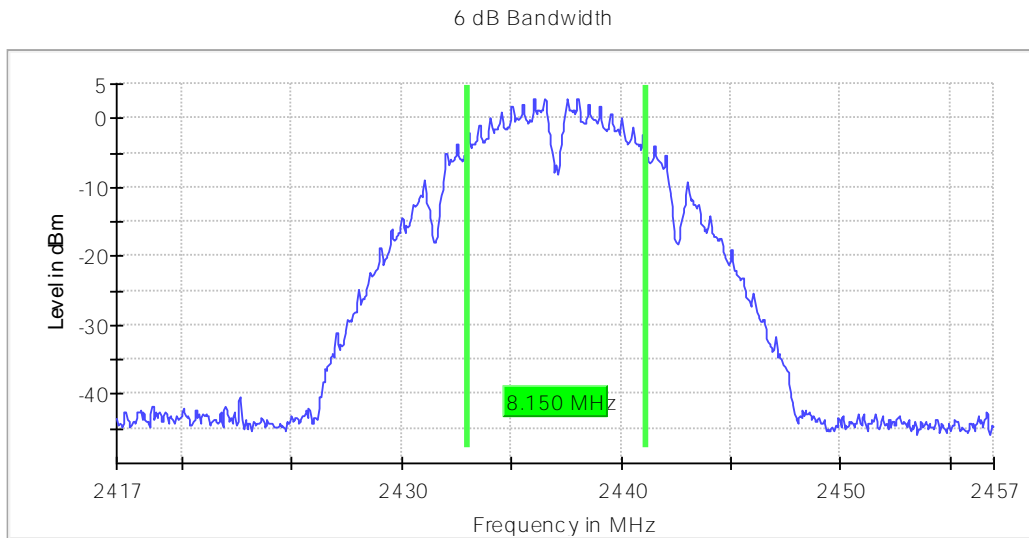
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



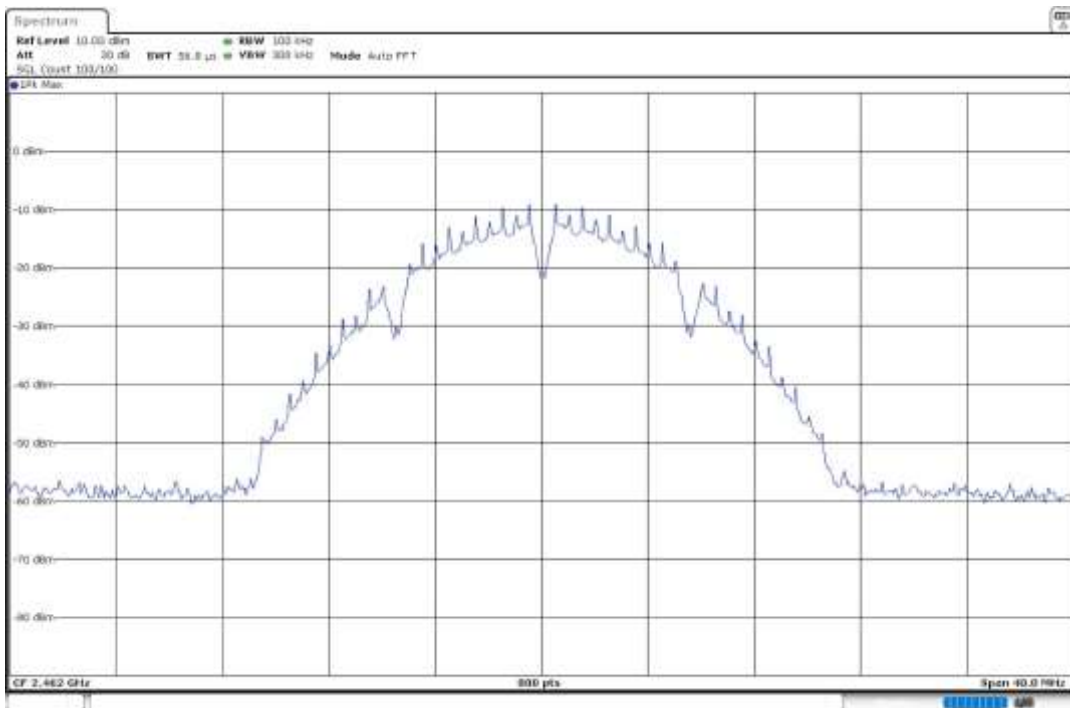
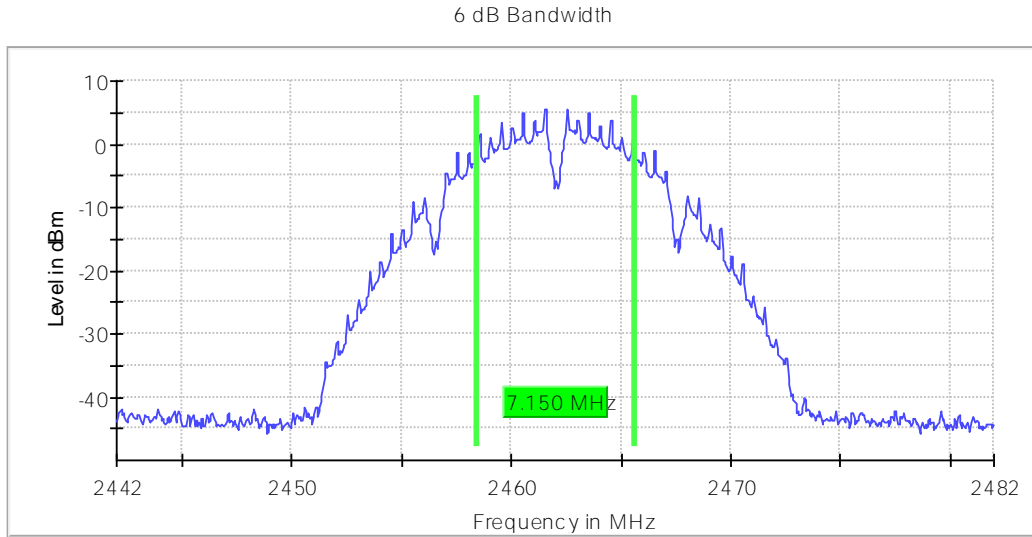
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



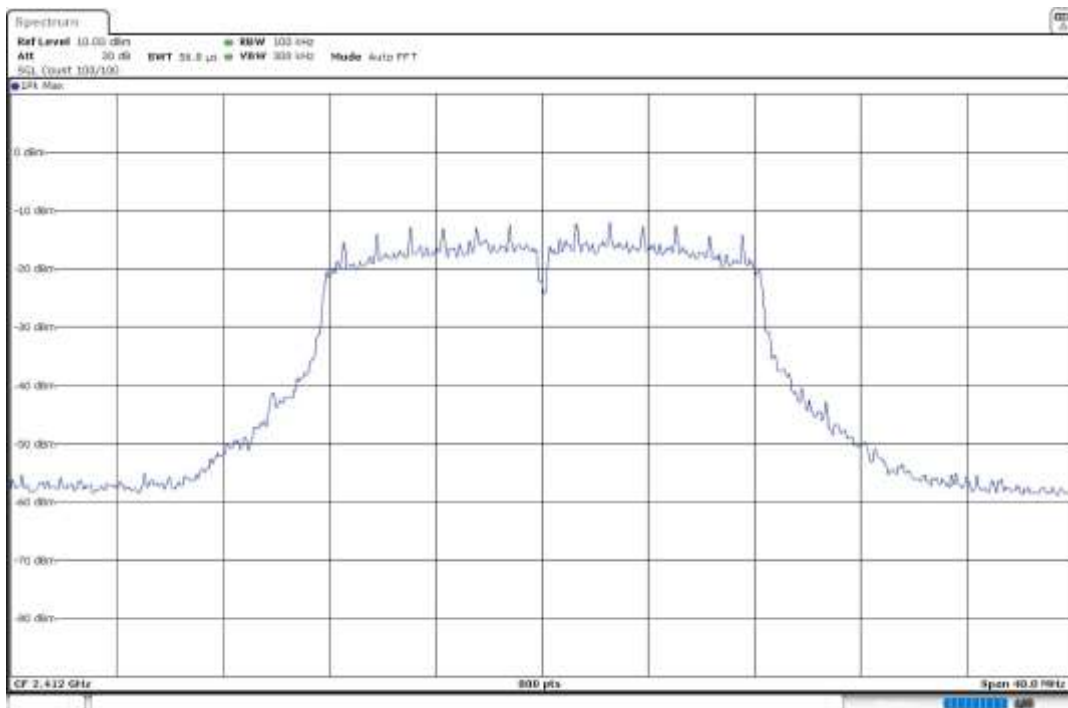
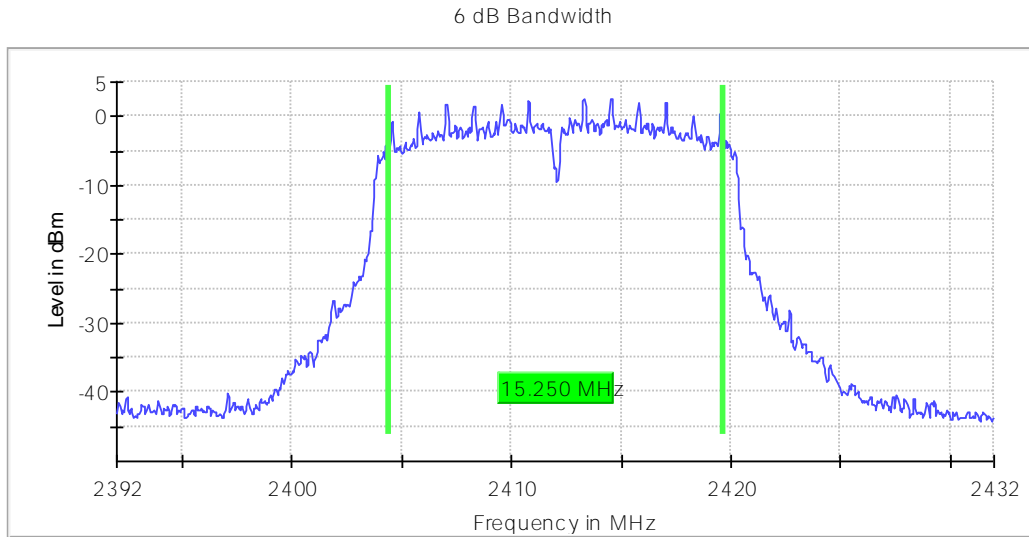
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:



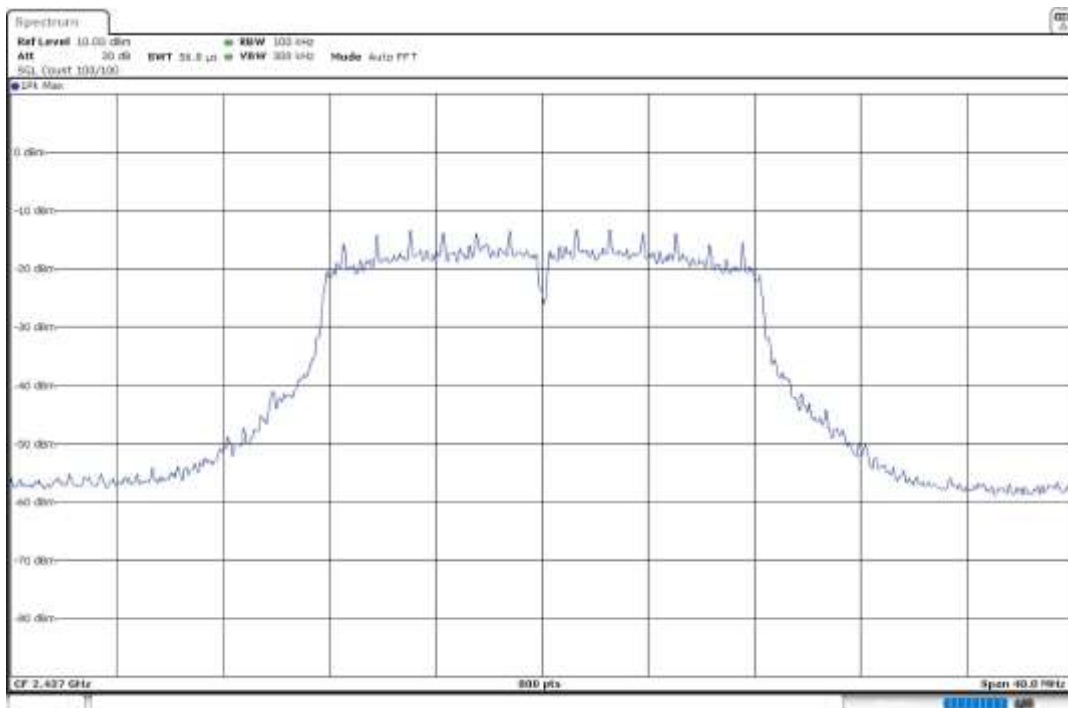
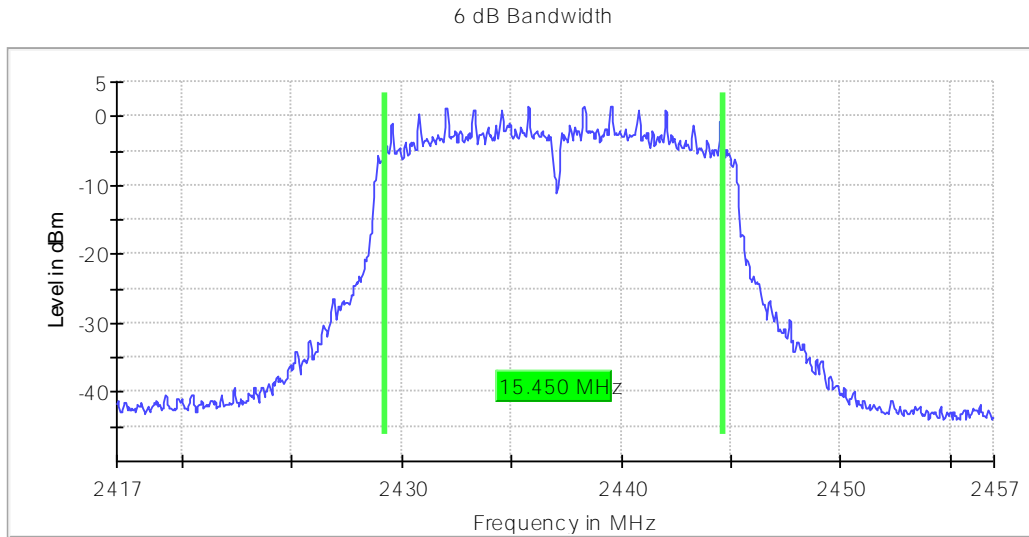
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



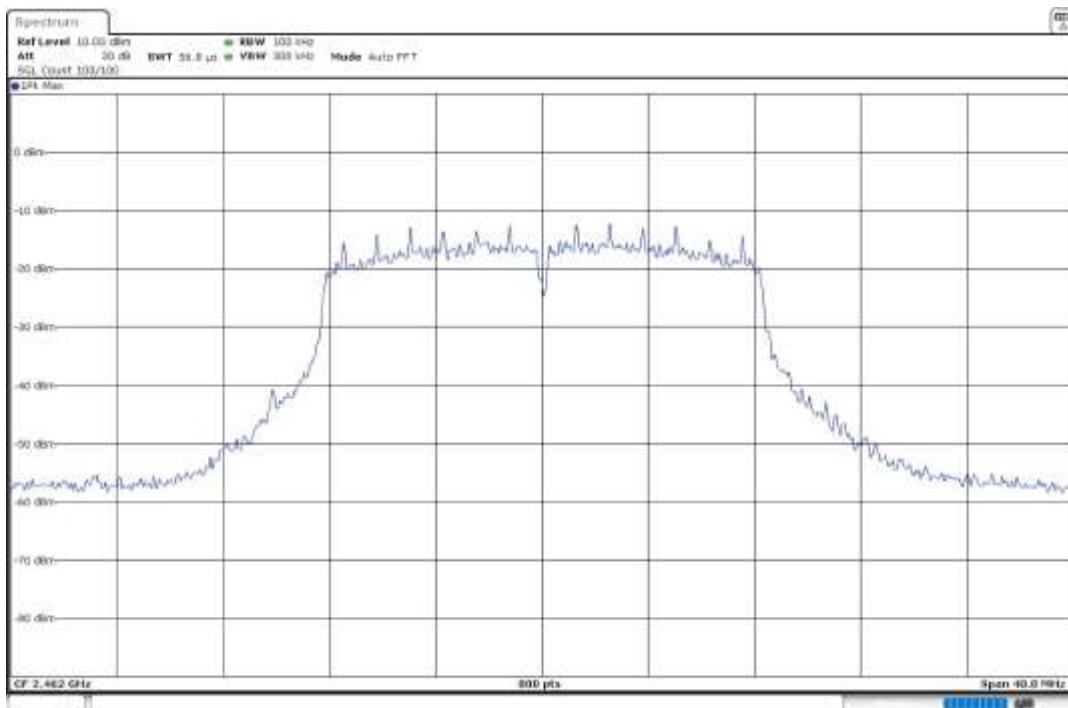
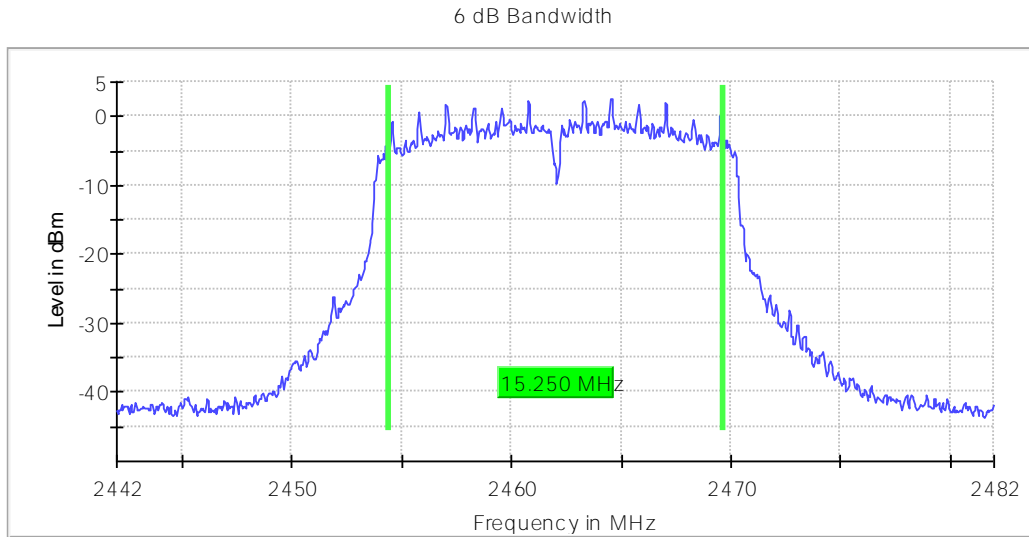
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



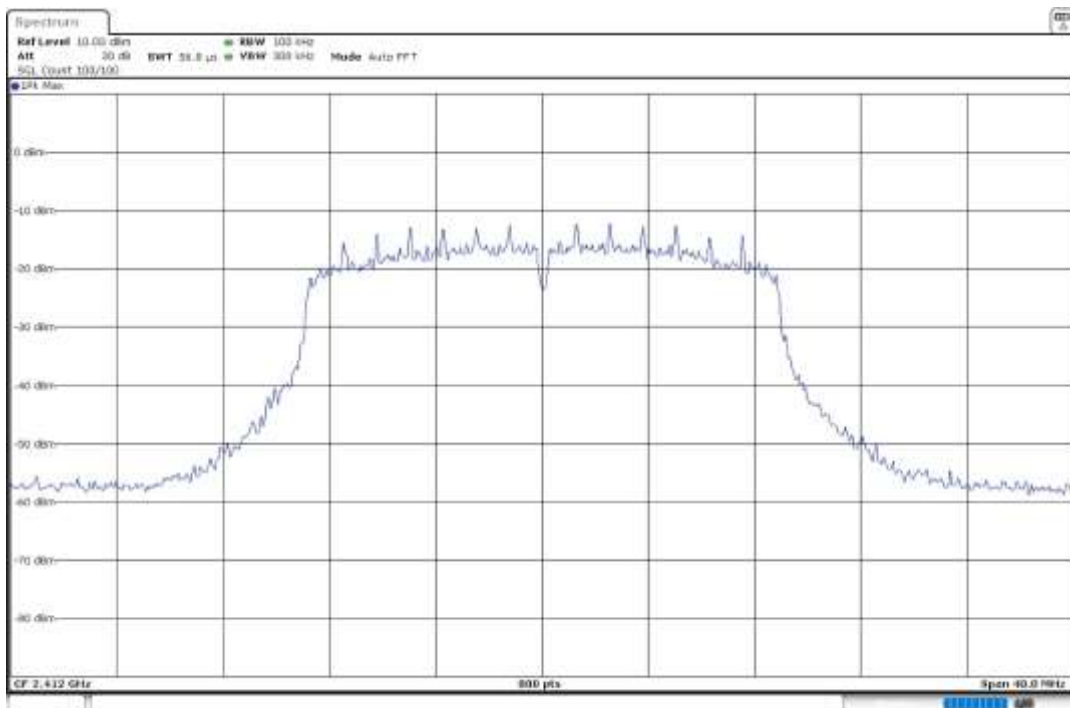
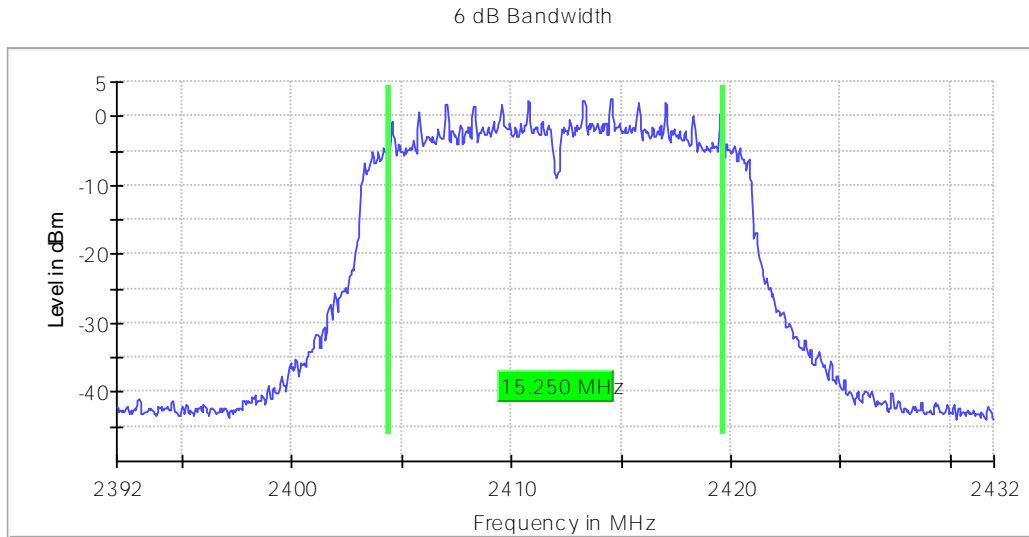
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:



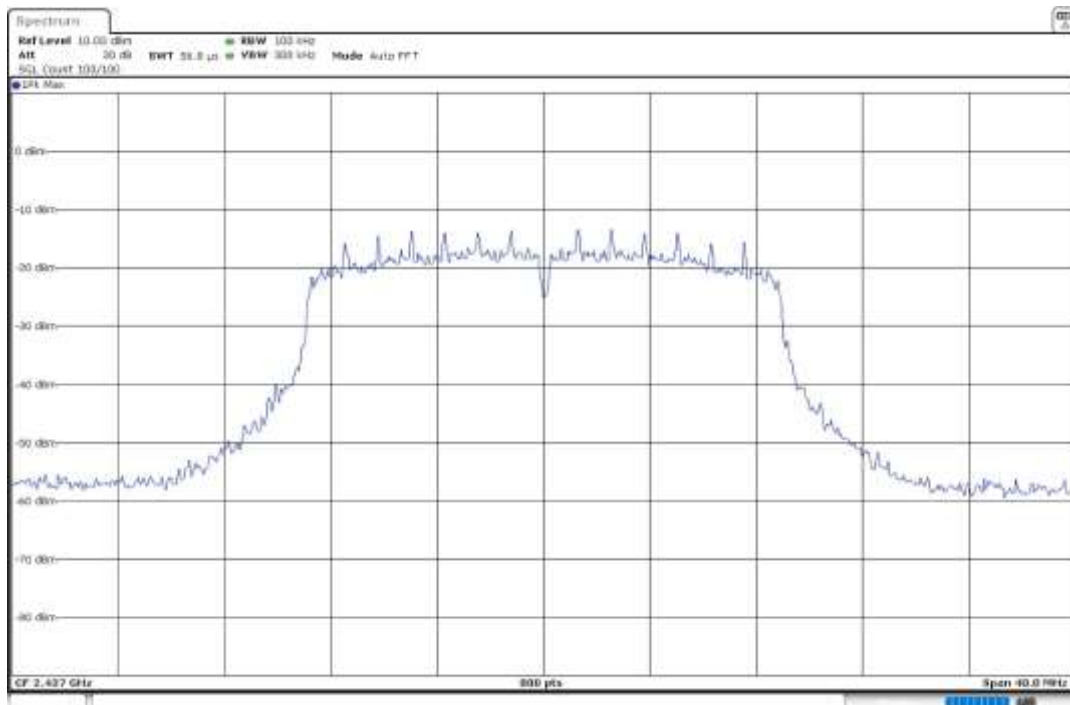
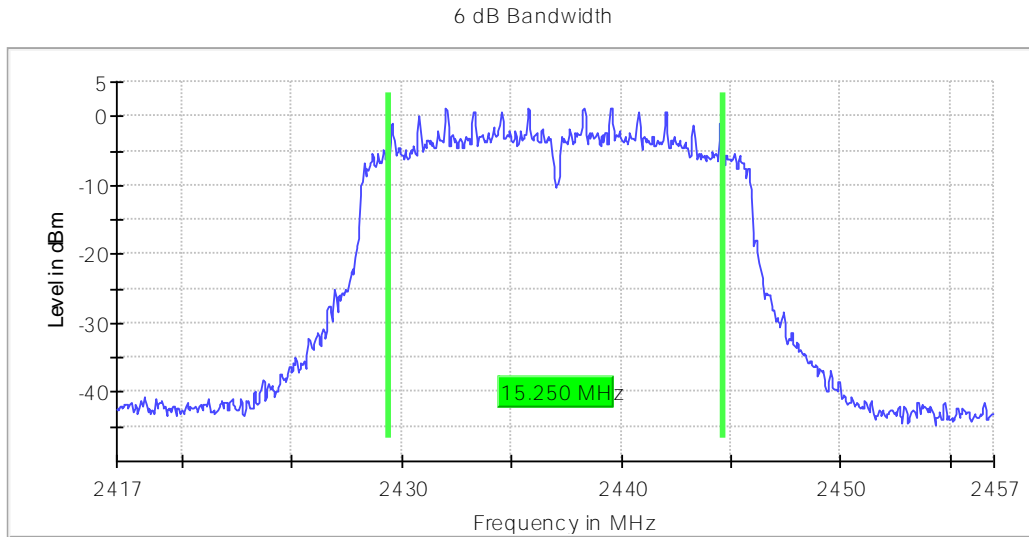
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



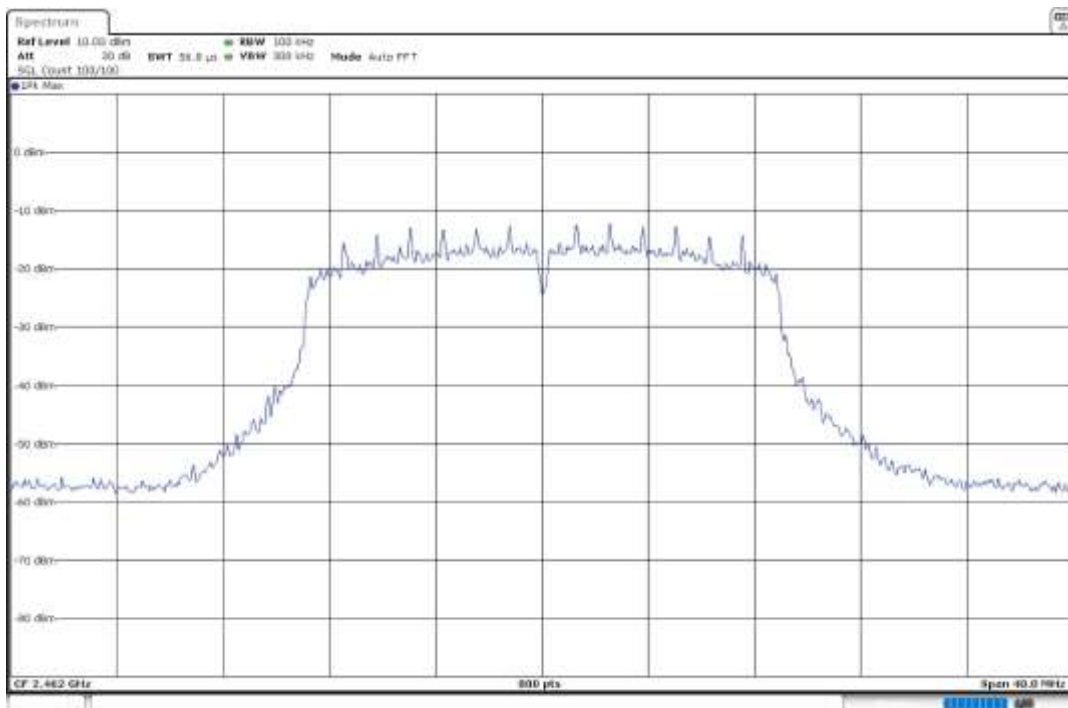
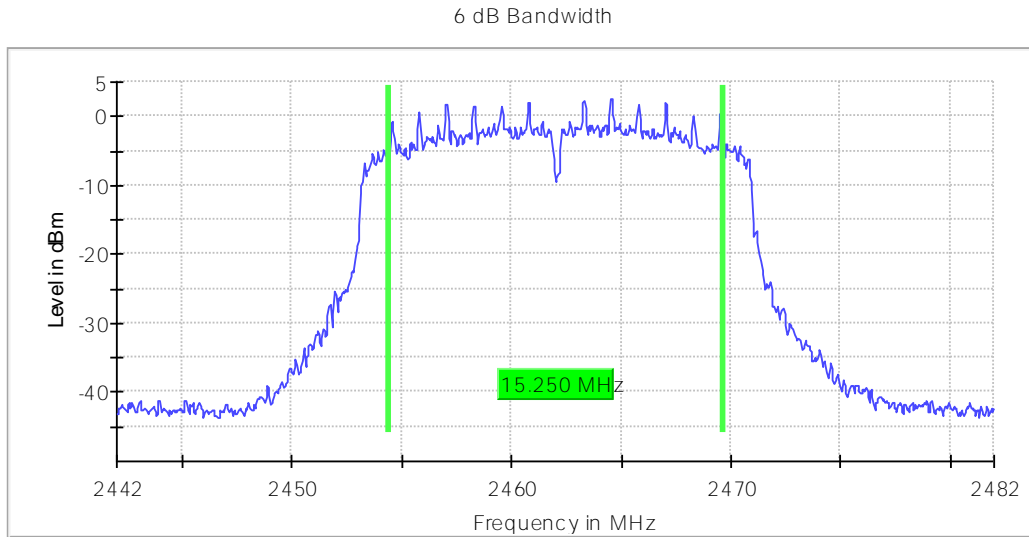
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



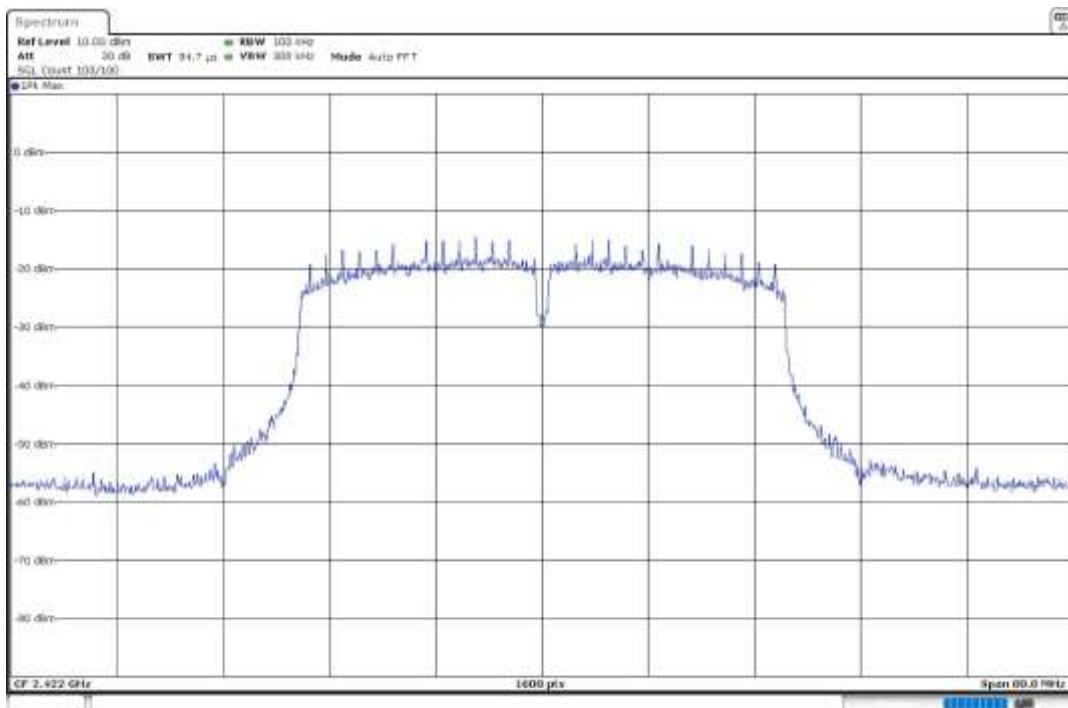
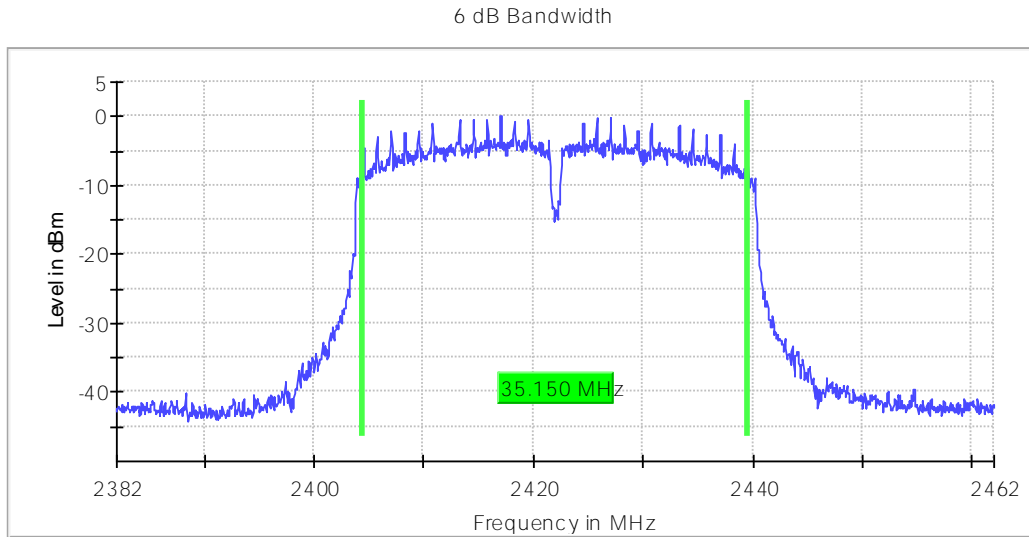
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:



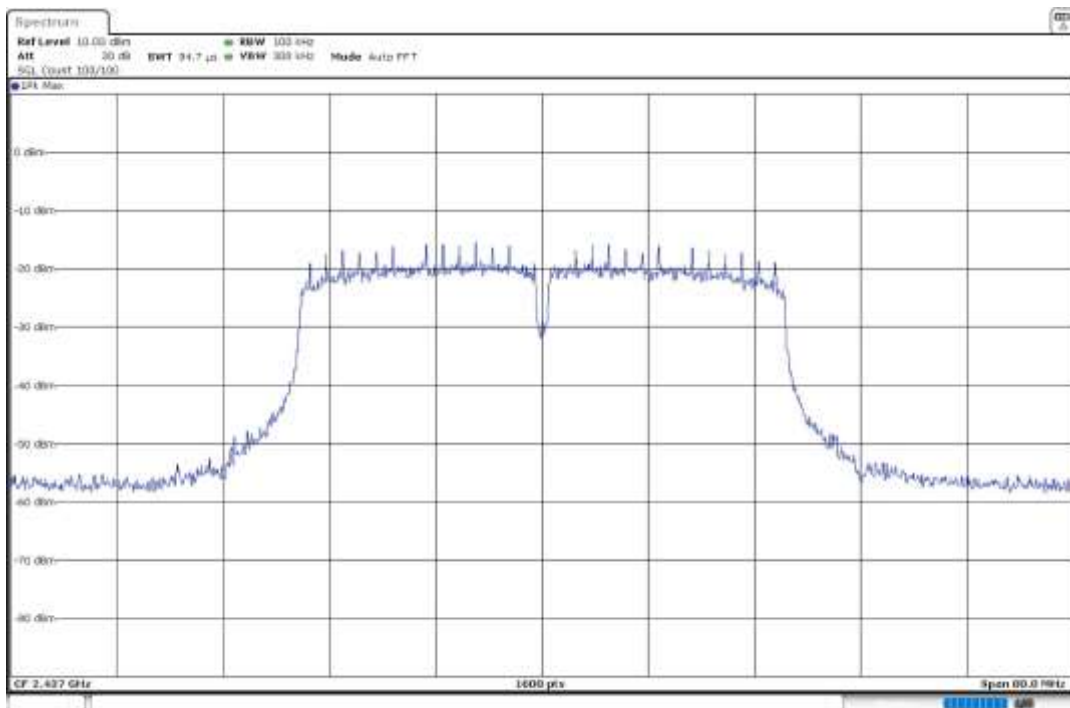
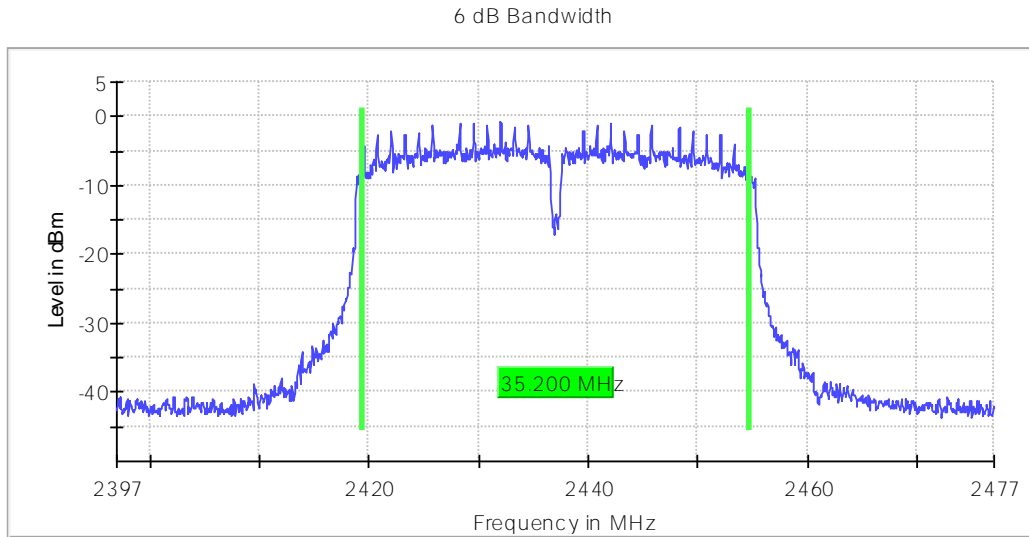
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2422.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



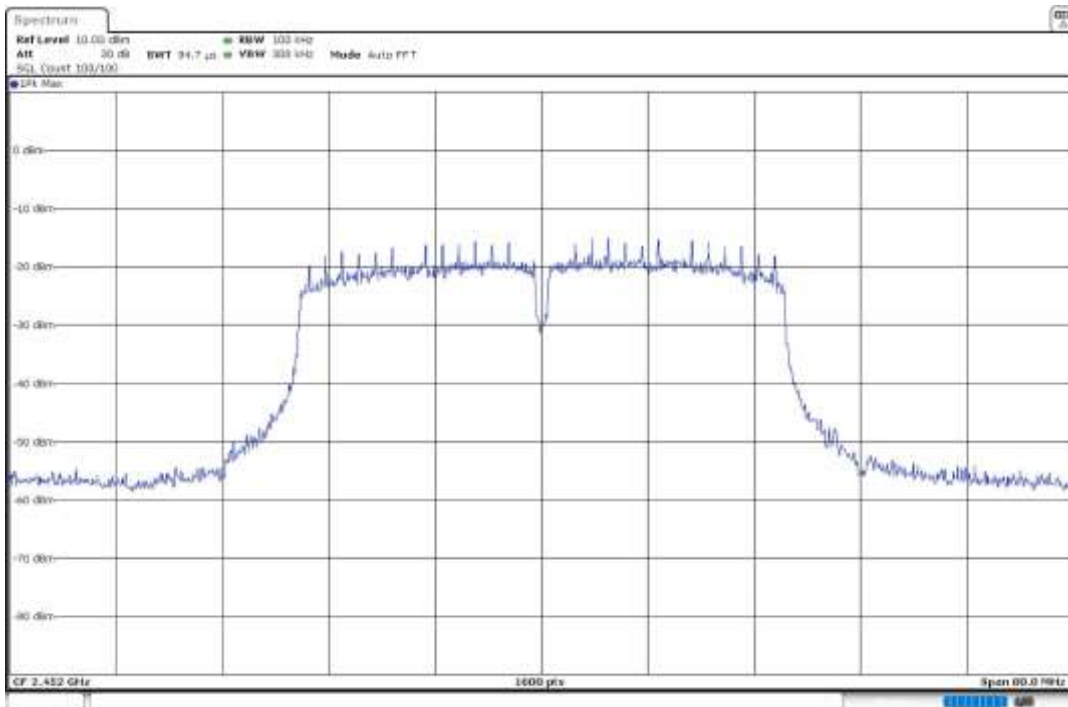
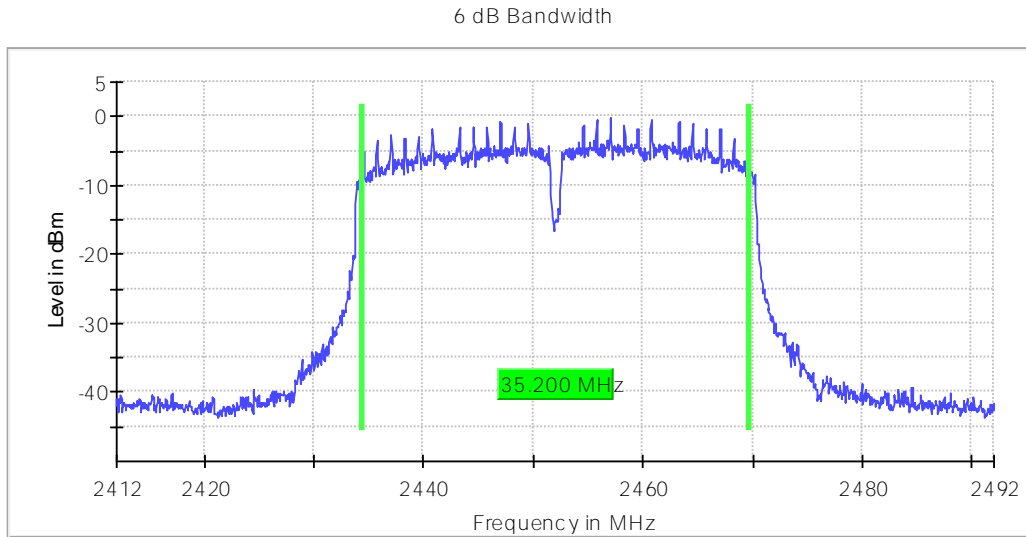
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2452.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:



FCC 15.247 (b) / RSS-247 5.4 (d) Maximum Output Power and Antenna Gain

Limits

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).
 The e.i.r.p. shall not exceed 4 W (36 dBm) (RSS-247).

Results

The maximum peak conducted output power level of the fundamental emission was measured according to clause 11.9.2.3.2 "Method AVGPM-G" of ANSI C63.10-2013.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

Maximum Declared Antenna Gain: +5.2 dBi

Modulation: 802.11b (DSSS 1 Mbit/s)

Operation Band (MHz)	Equipment	Avg Power Conducted (dBm)	Maximum EIRP Power (dBm)
2412.00	Digital Transmission System (DTS)	13.30	18.50
2437.00		12.38	17.58
2462.00		13.20	18.40

Modulation: 802.11g (OFDM 6 Mbit/s)

Operation Band (MHz)	Equipment	Avg Power Conducted (dBm)	Maximum EIRP Power (dBm)
2412.00	Digital Transmission System (DTS)	13.01	18.21
2437.00		12.15	17.35
2462.00		12.91	18.11

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Operation Band (MHz)	Equipment	Avg Power Conducted (dBm)	Maximum EIRP Power (dBm)
2412.00	Digital Transmission System (DTS)	12.76	17.96
2437.00		11.90	17.10
2462.00		12.65	17.85

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Operation Band (MHz)	Equipment	Avg Power Conducted (dBm)	Maximum EIRP Power (dBm)
2422.00	Digital Transmission System (DTS)	13.42	18.62
2437.00		12.87	18.07
2452.00		13.11	18.31

Verdict

Pass

FCC 15.247 (e) / RSS-247 5.2 (b) Power Spectral Density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Results

The maximum power spectral density level of the fundamental emission was measured according to clause 11.10.3 "Method AVGPSD-1" of ANSI C63.10-2013.

Modulation: 802.11b (DSSS 1 Mbit/s)

Freq (MHz)	Equipment	PSD (dBm)
2412.00	Digital Transmission System (DTS)	-3.09
2437.00		-4.14
2462.00		-3.02

Modulation: 802.11g (OFDM 6 Mbit/s)

Freq (MHz)	Equipment	PSD (dBm)
2412.00	Digital Transmission System (DTS)	-6.65
2437.00		-7.92
2462.00		-7.03

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Freq (MHz)	Equipment	PSD (dBm)
2412.00	Digital Transmission System (DTS)	-7.13
2437.00		-8.32
2462.00		-7.30

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Freq (MHz)	Equipment	PSD (dBm)
2422.00	Digital Transmission System (DTS)	-9.53
2437.00		-10.06
2452.00		-9.95

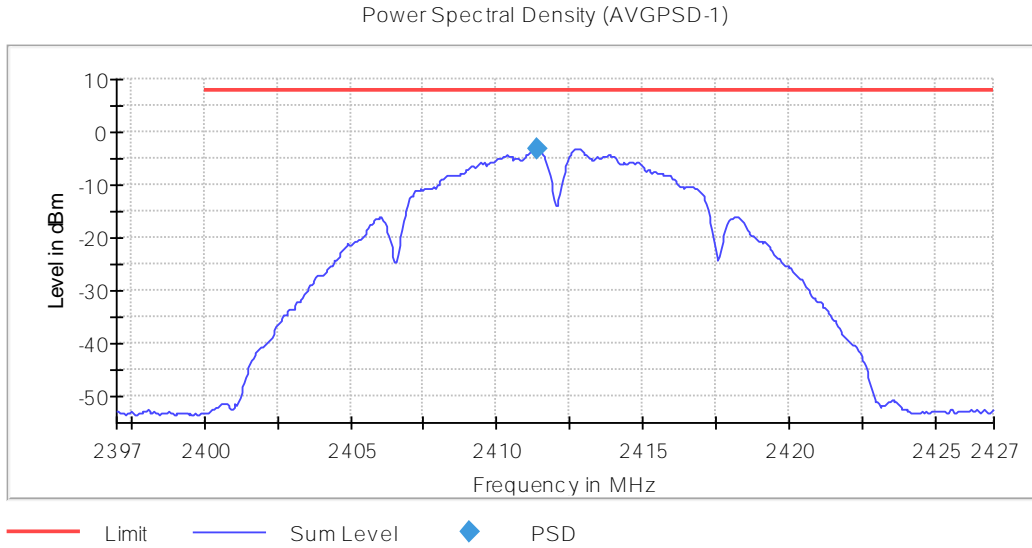
Verdict

Pass

Attachments

Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

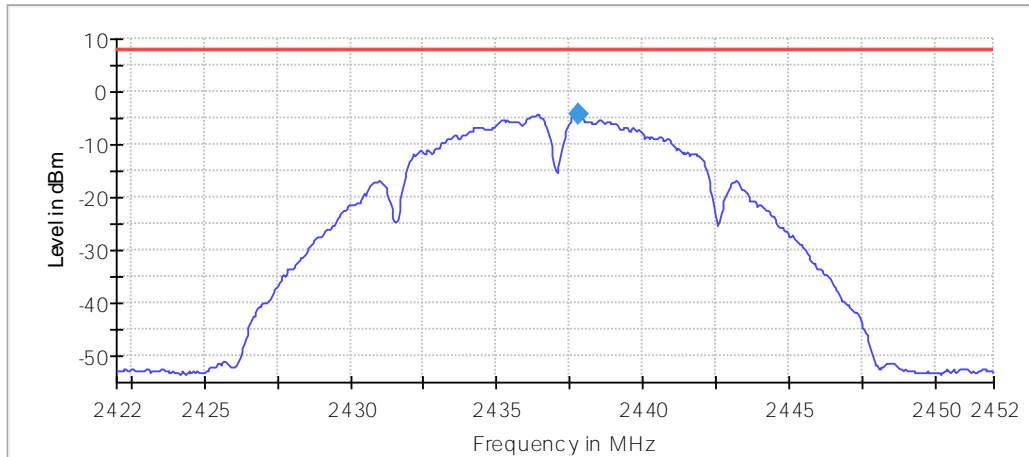
Plots:



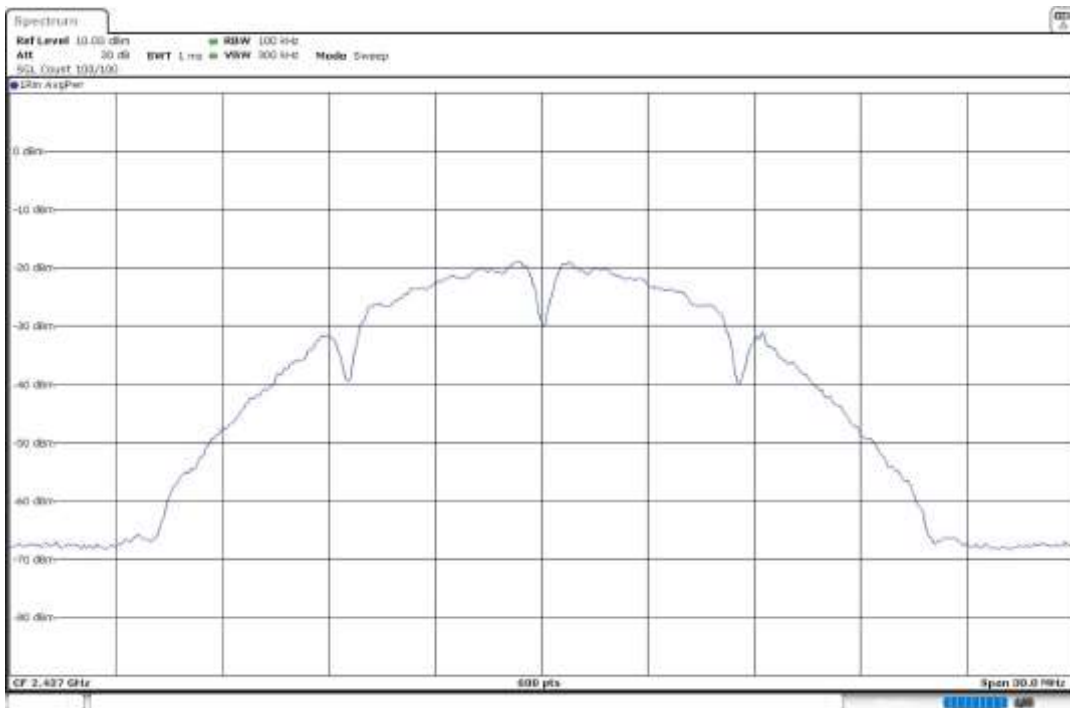
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:

Power Spectral Density (AVG PSD-1)



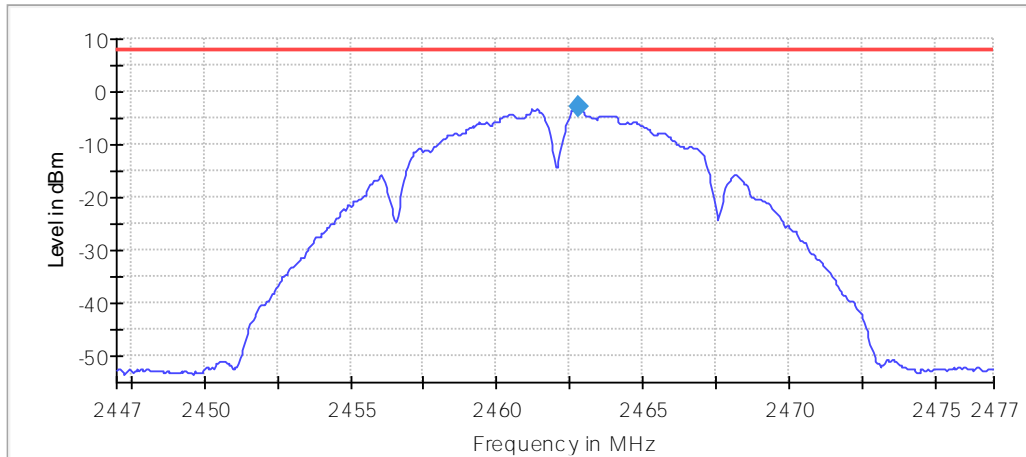
— Limit — Sum Level ◆ PSD



Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



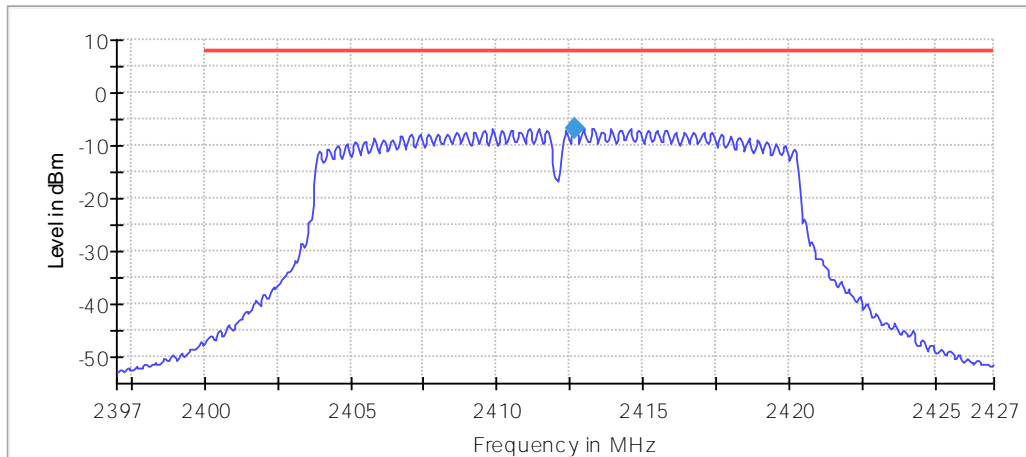
— Limit — Sum Level ◆ PSD



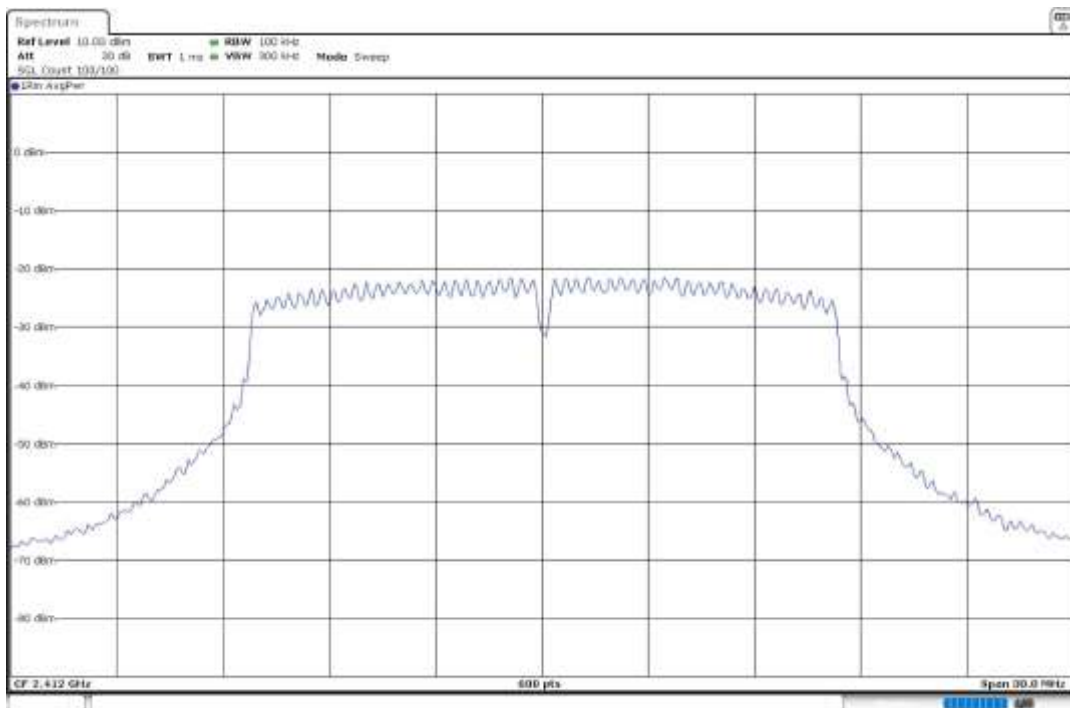
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



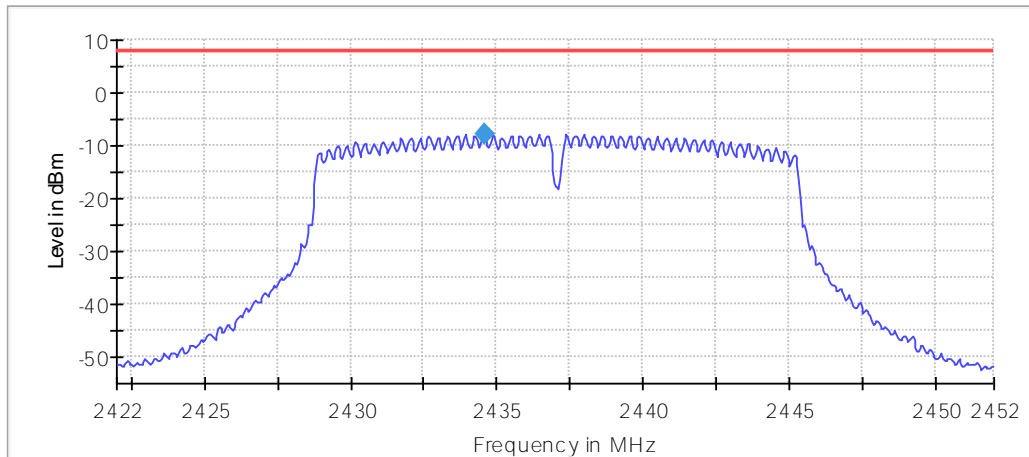
— Limit — Sum Level ◆ PSD



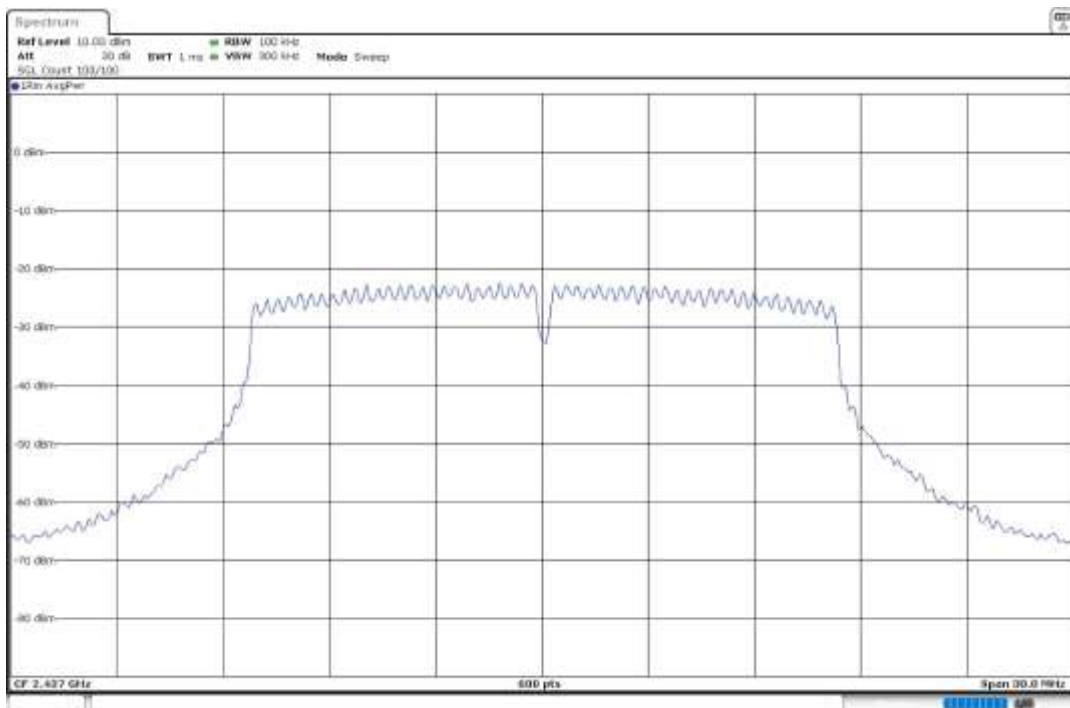
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



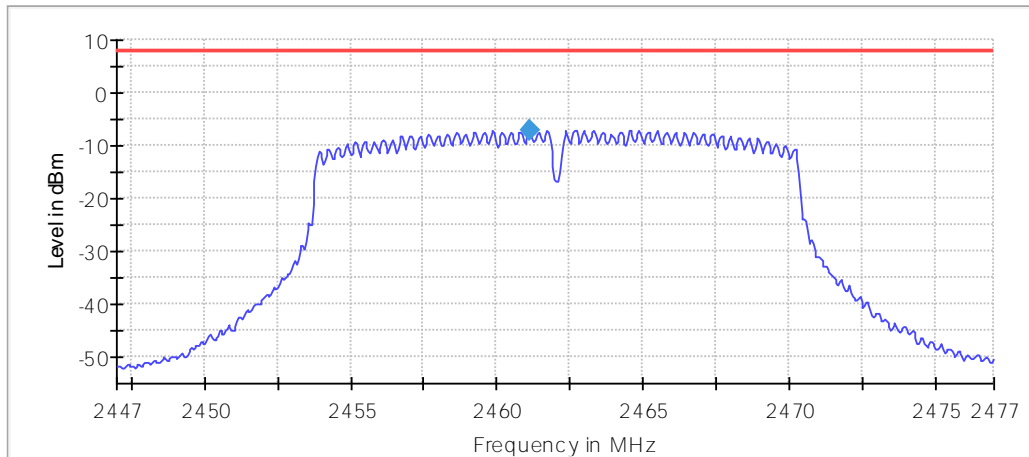
— Limit — Sum Level ◆ PSD



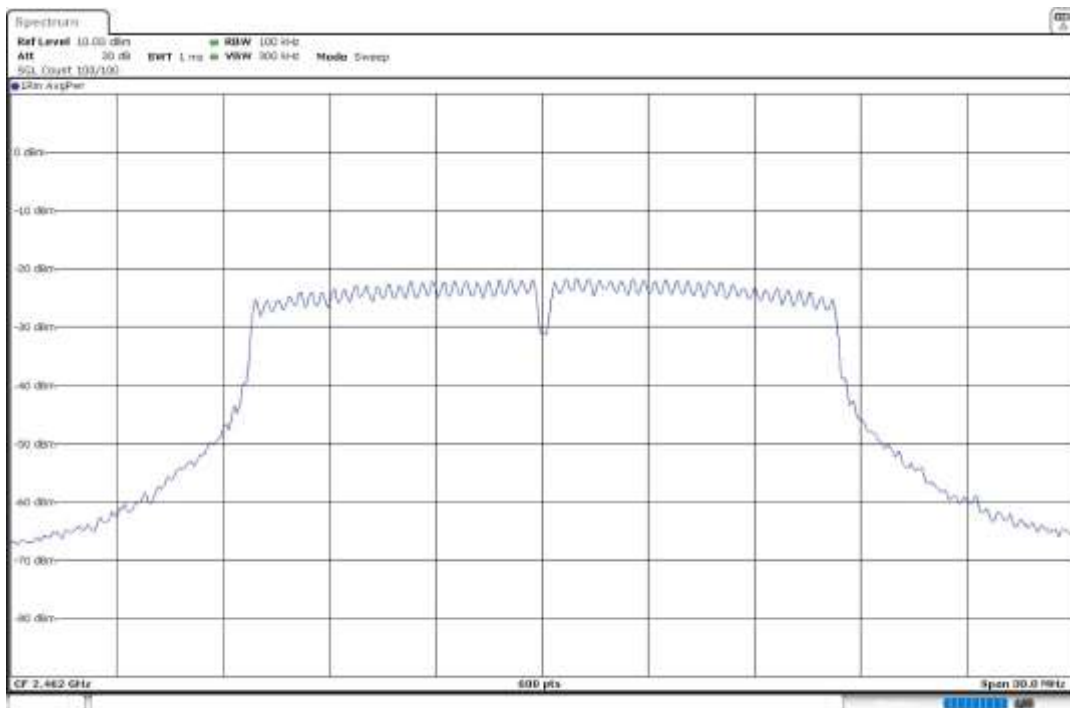
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



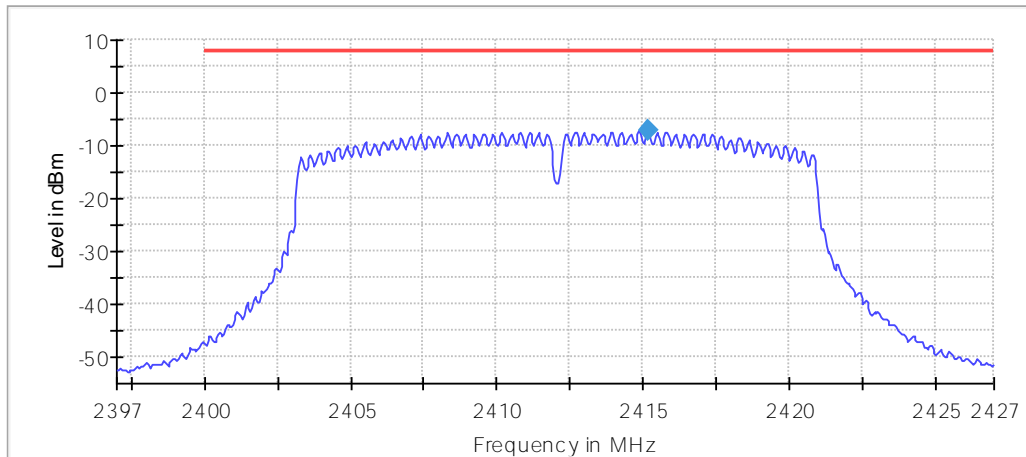
— Limit — Sum Level ◆ PSD



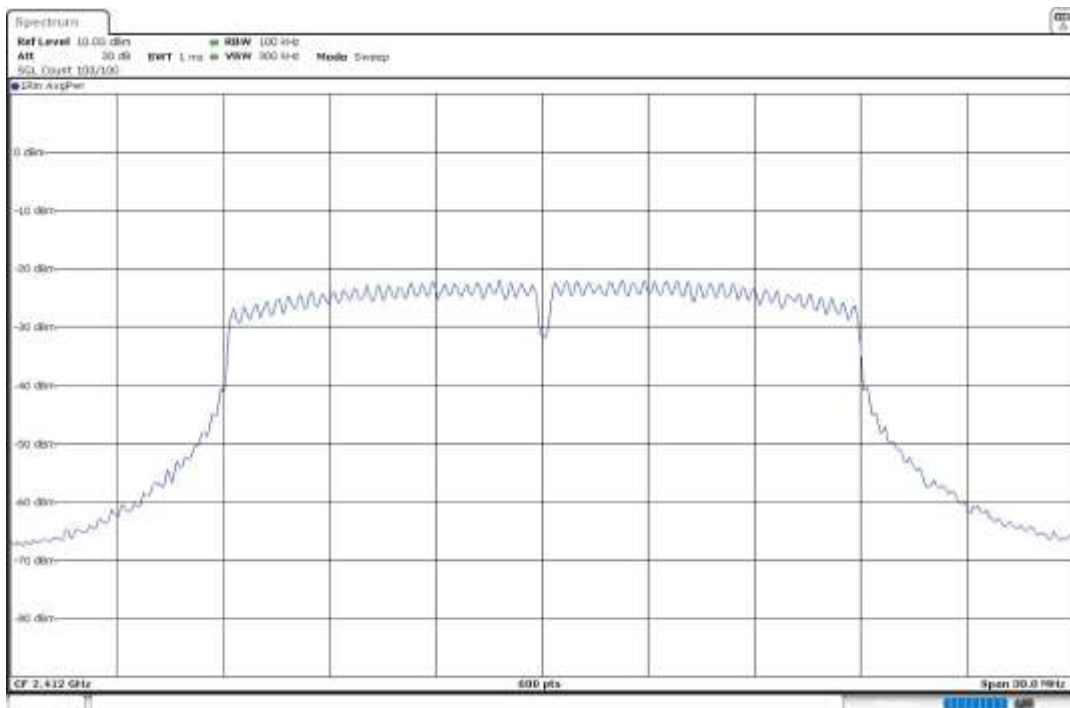
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)

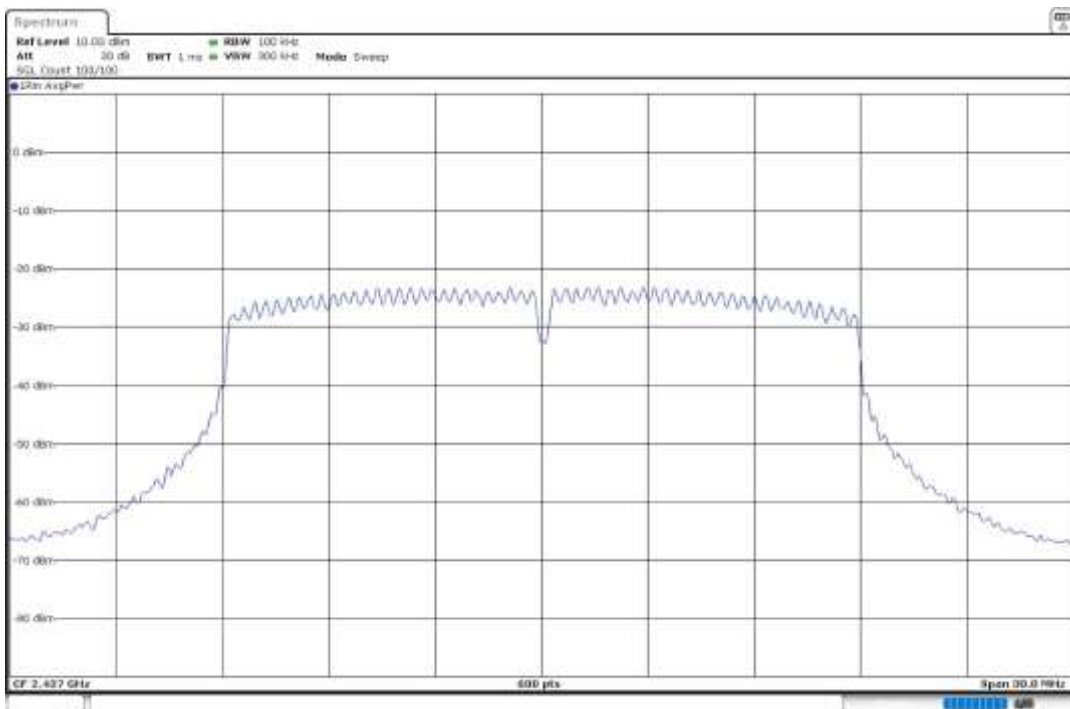
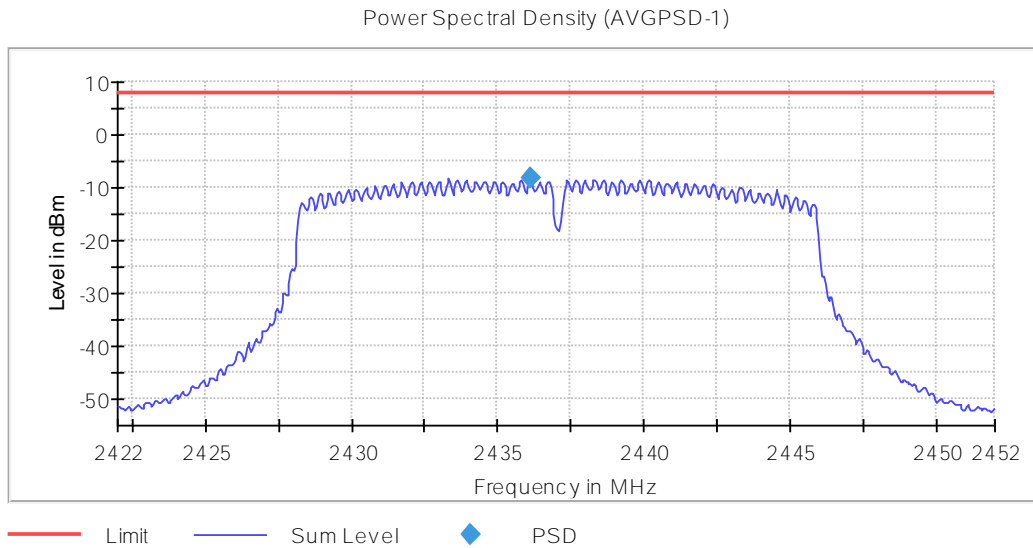


— Limit — Sum Level ◆ PSD



Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

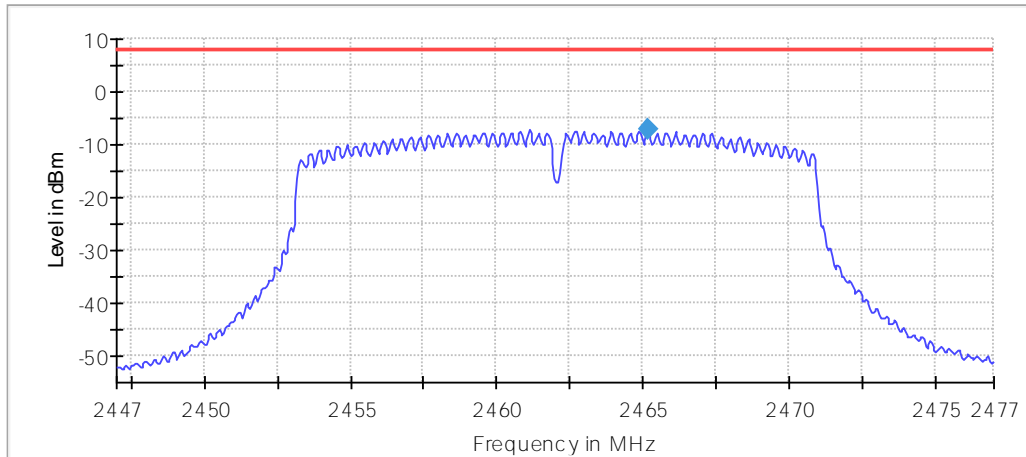
Plots:



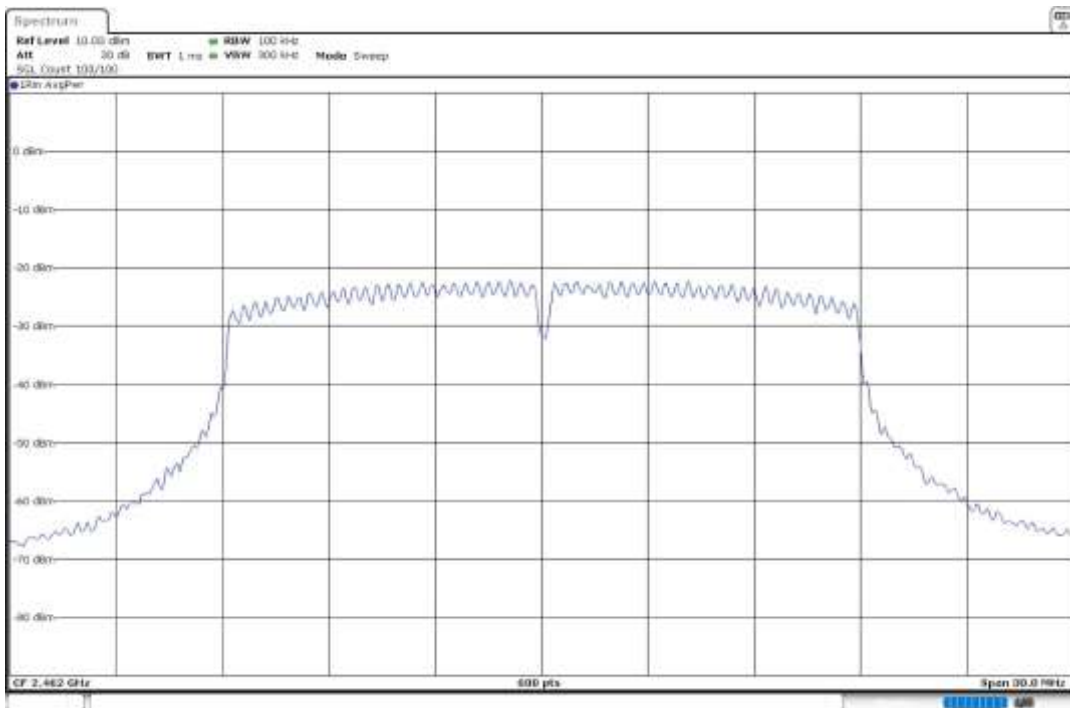
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



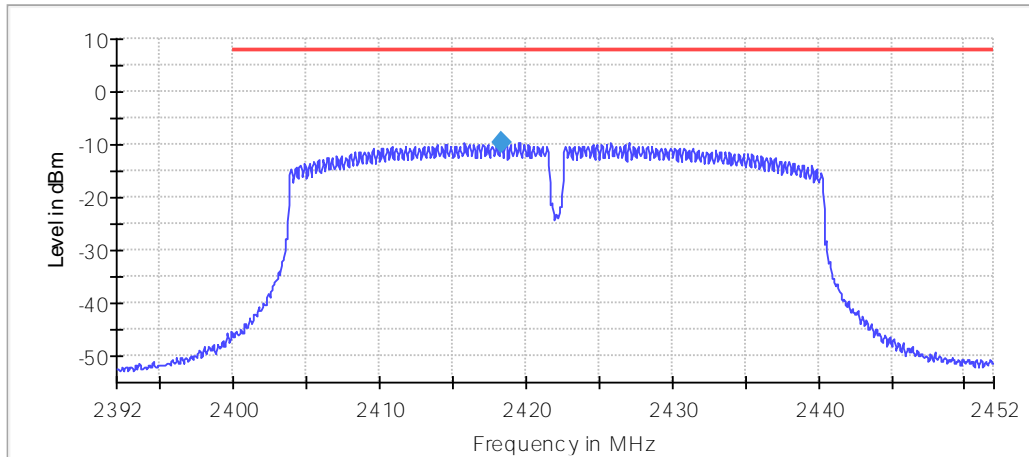
— Limit — Sum Level ◆ PSD



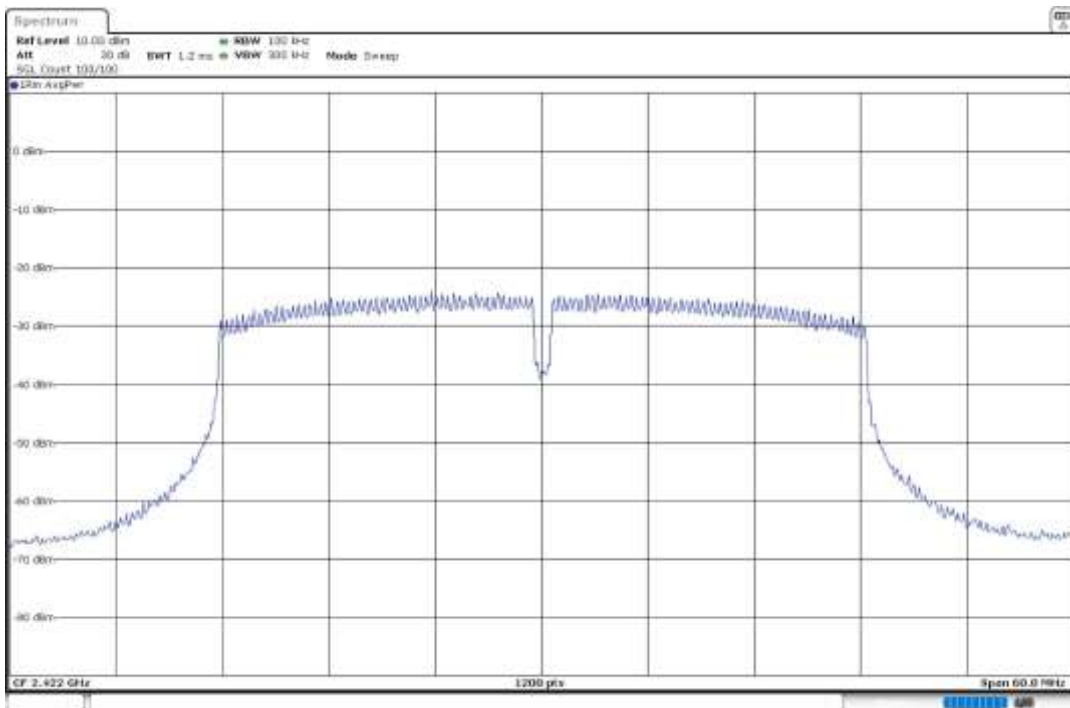
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2422.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



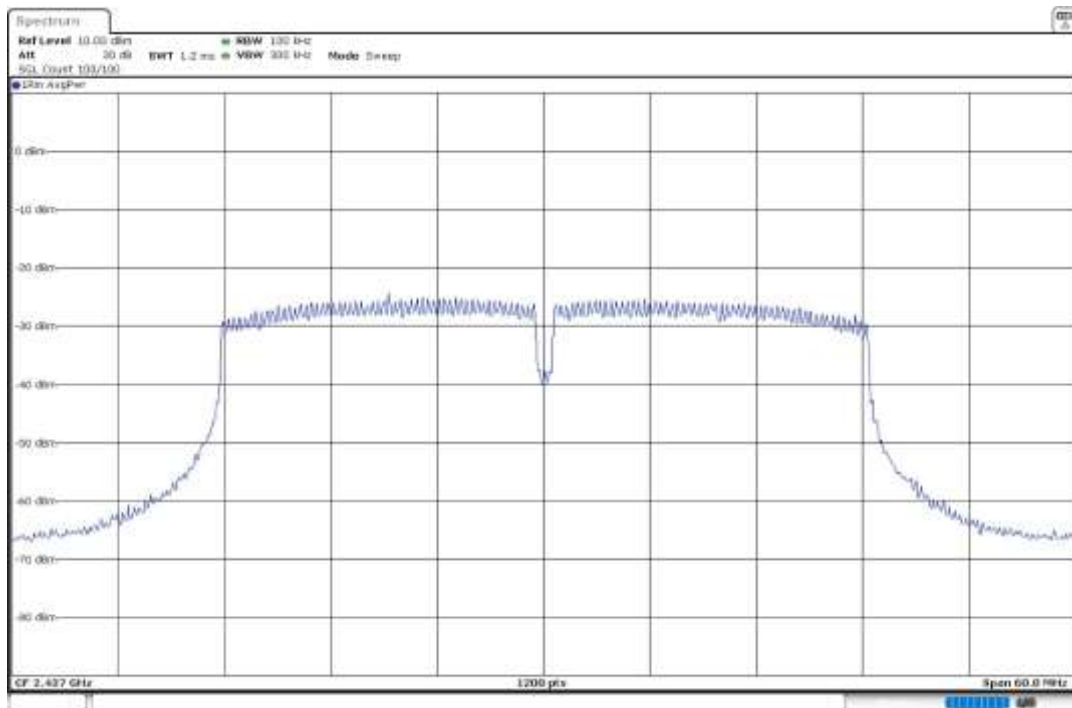
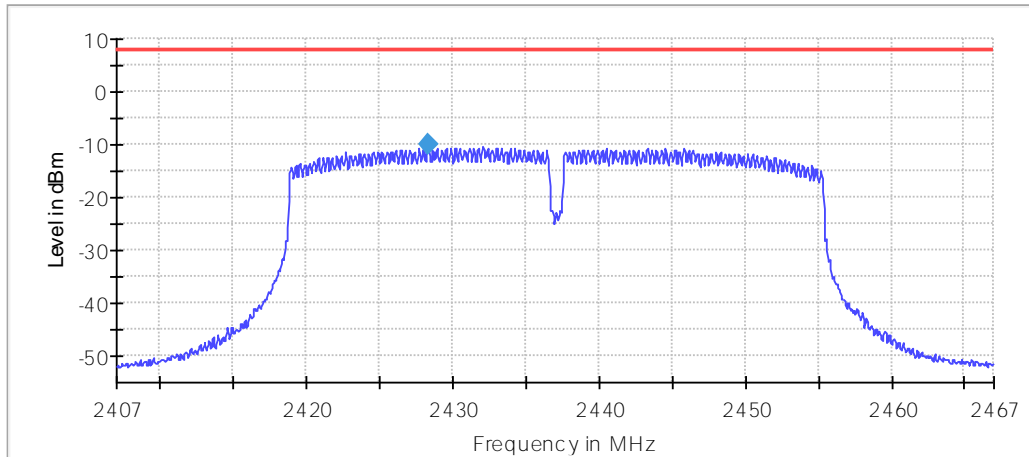
— Limit — Sum Level ◆ PSD



Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2437.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:

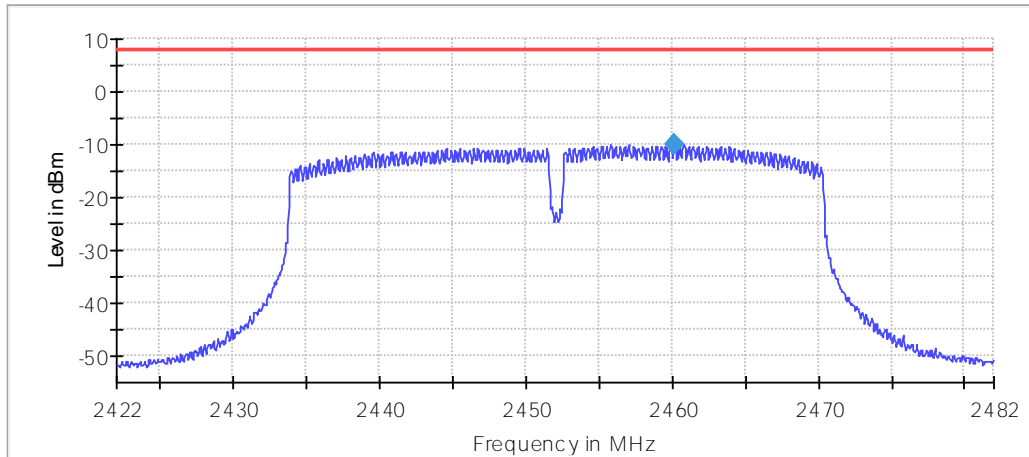
Power Spectral Density (AVGPSD-1)



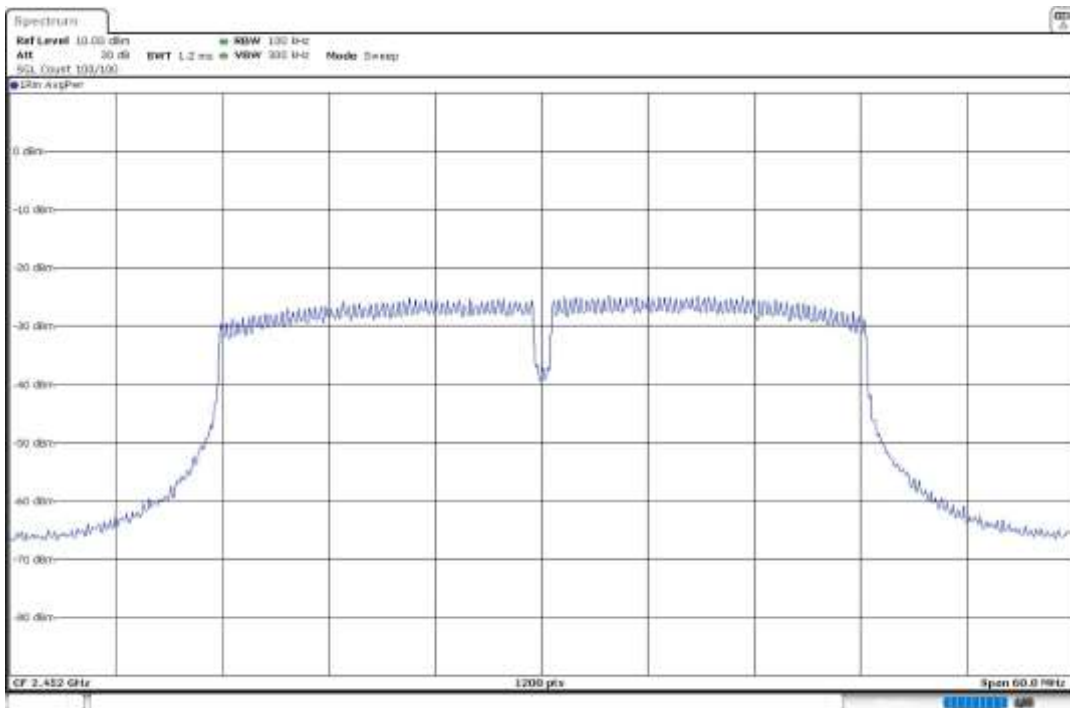
Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2452.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:

Power Spectral Density (AVGPSD-1)



— Limit — Sum Level ◆ PSD



FCC 15.247 (d) / RSS-247 5.5 Band-Edge Emissions Compliance (Transmitter)

Limits

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is 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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Results

Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Modulation: 802.11b (DSSS 1 Mbit/s)

Verdict

Pass

Modulation: 802.11g (OFDM 6 Mbit/s)

Verdict

Pass

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

Verdict

Pass

Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

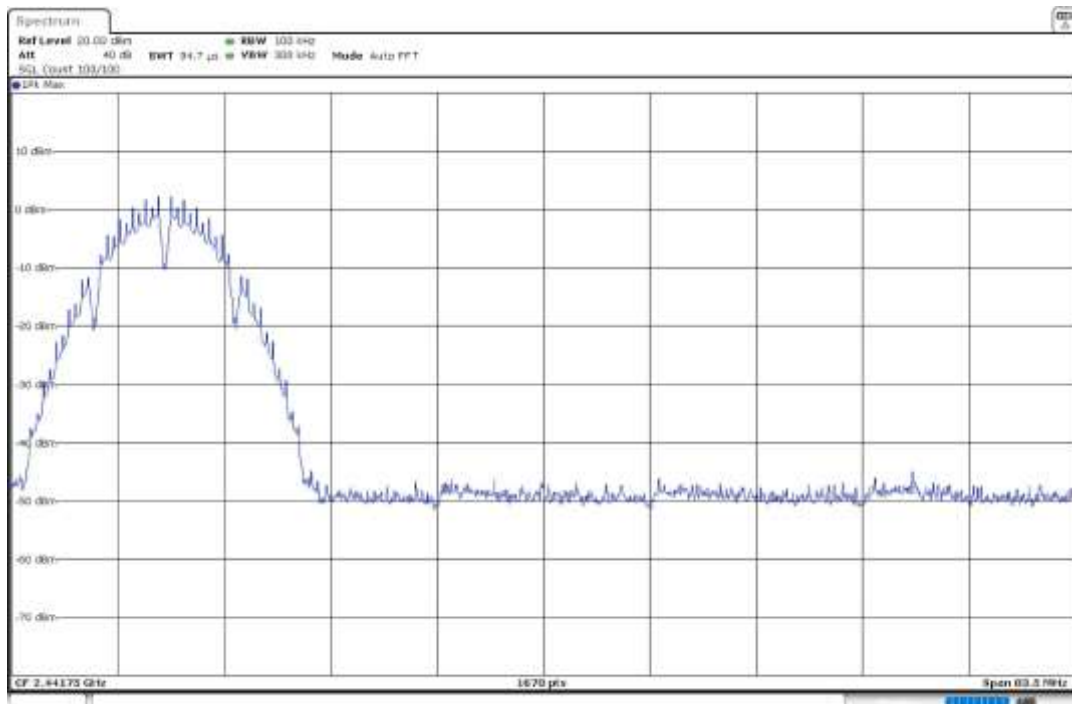
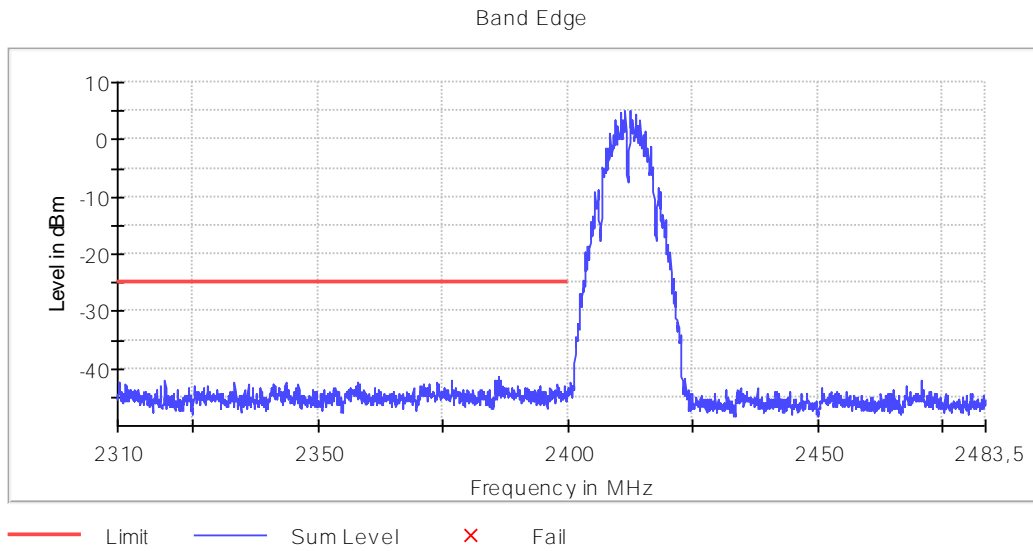
Verdict

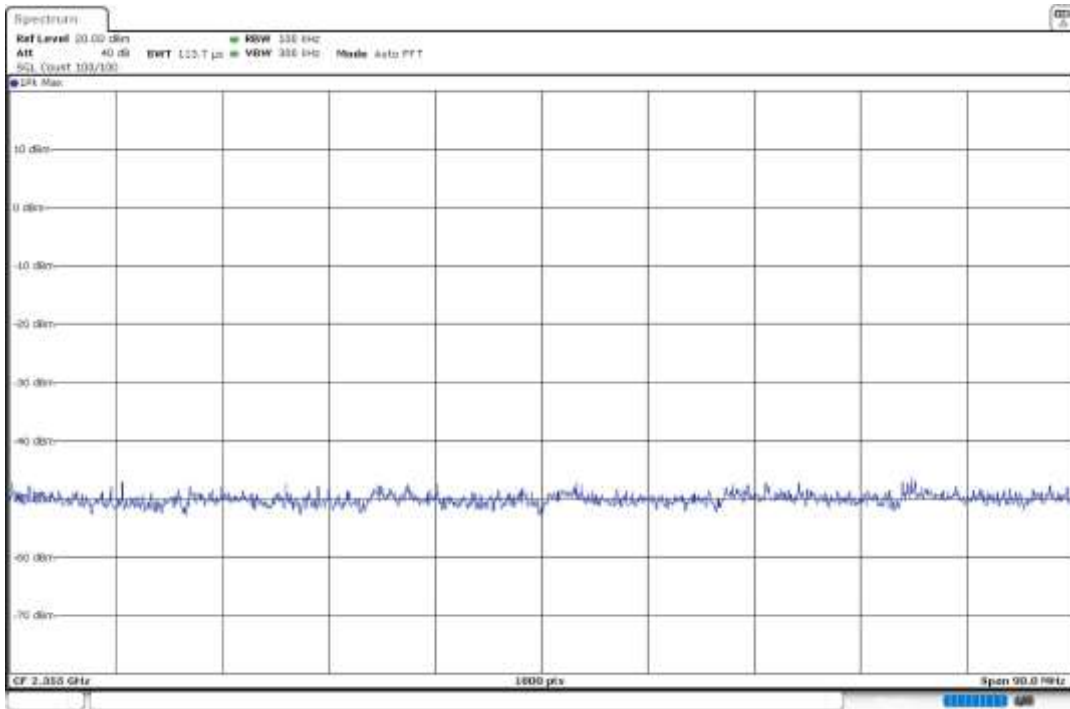
Pass

Attachments

Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

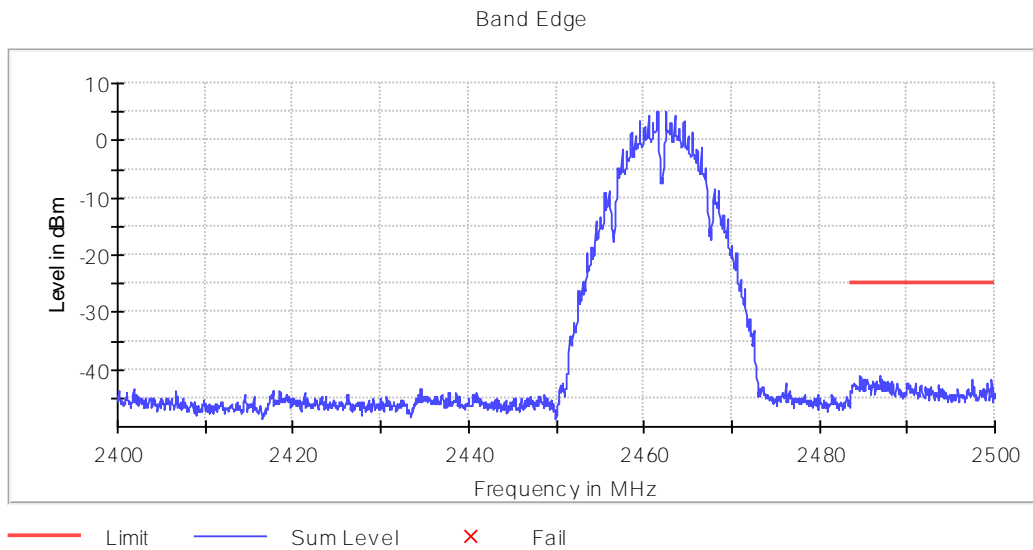
Plots:

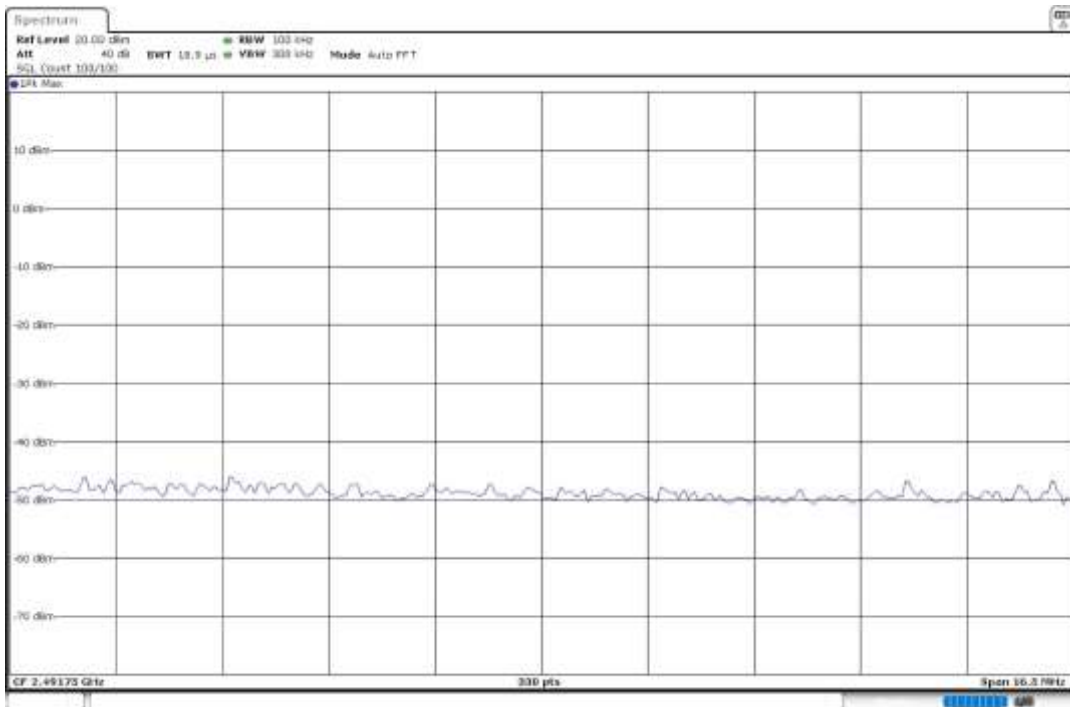
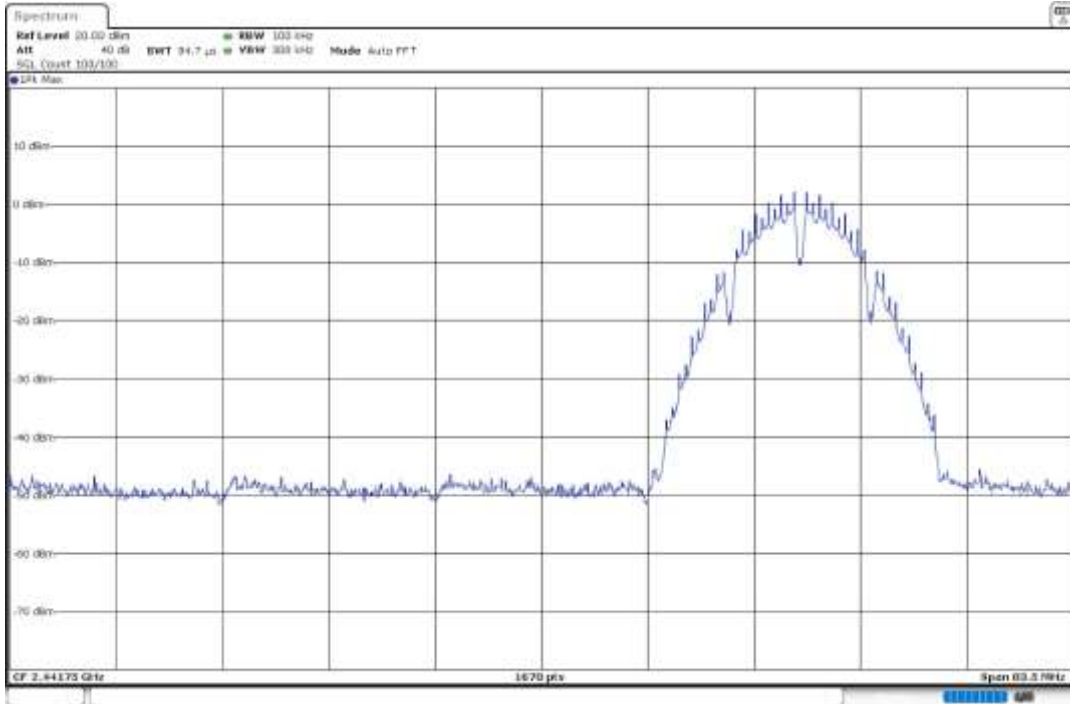




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11b (DSSS 1 Mbit/s)

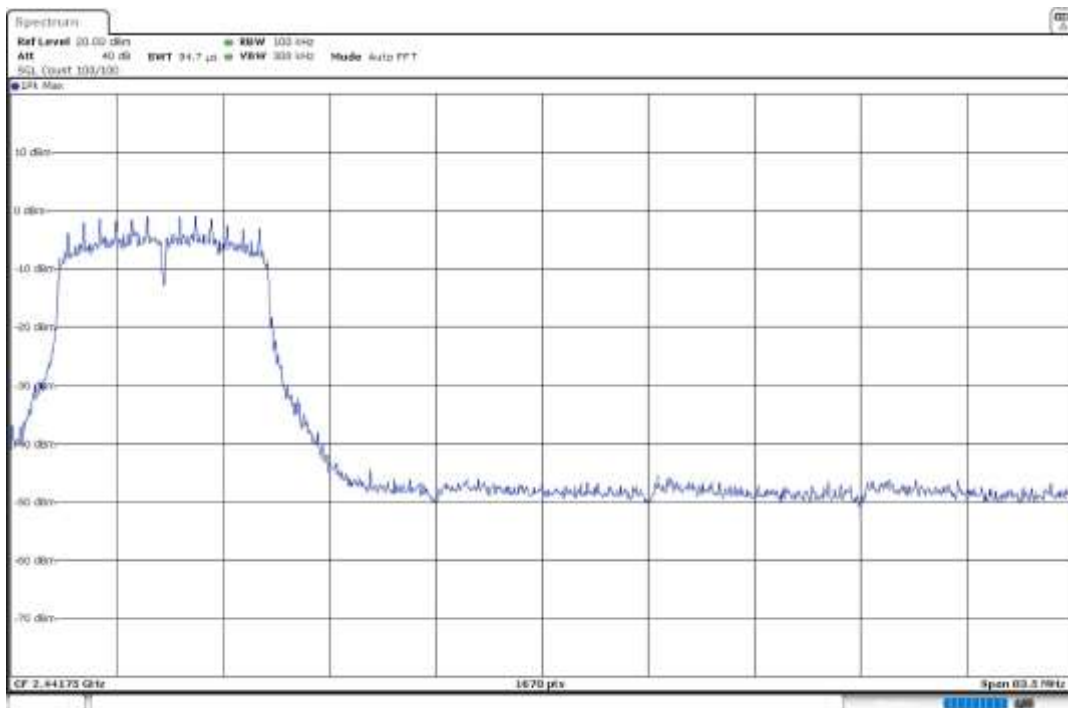
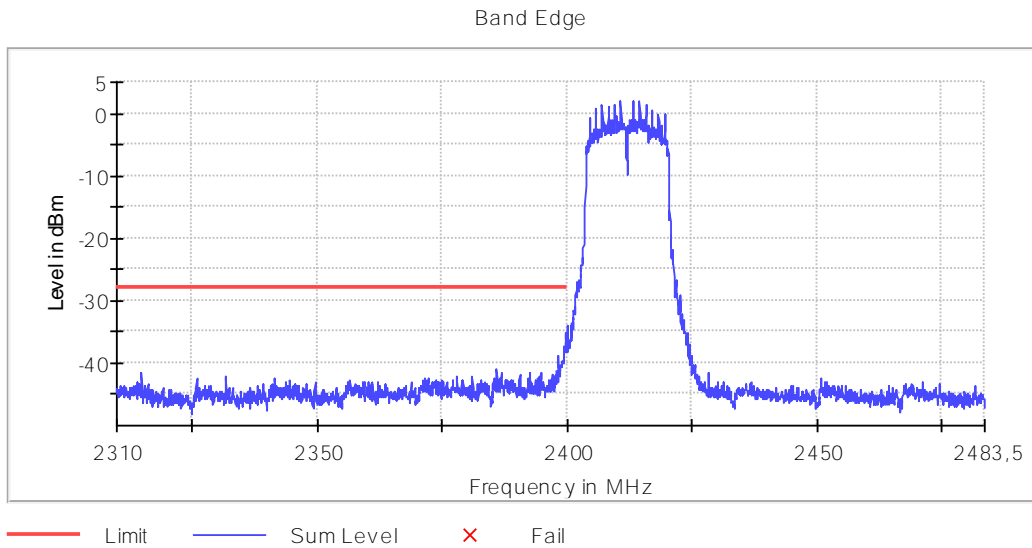
Plots:

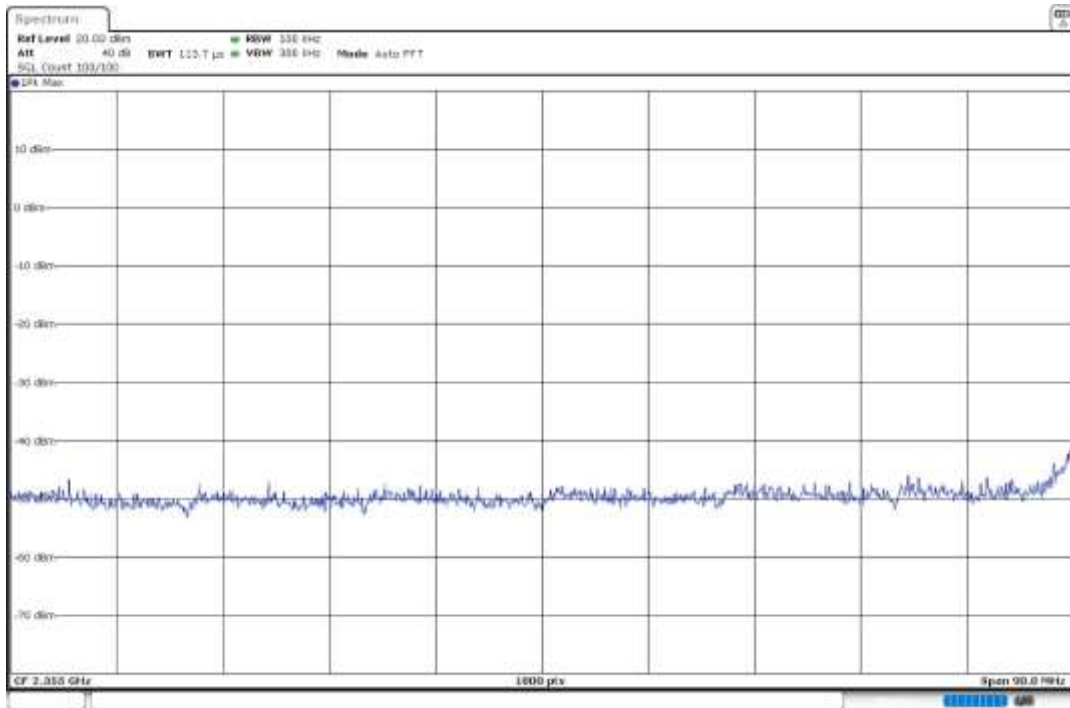




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

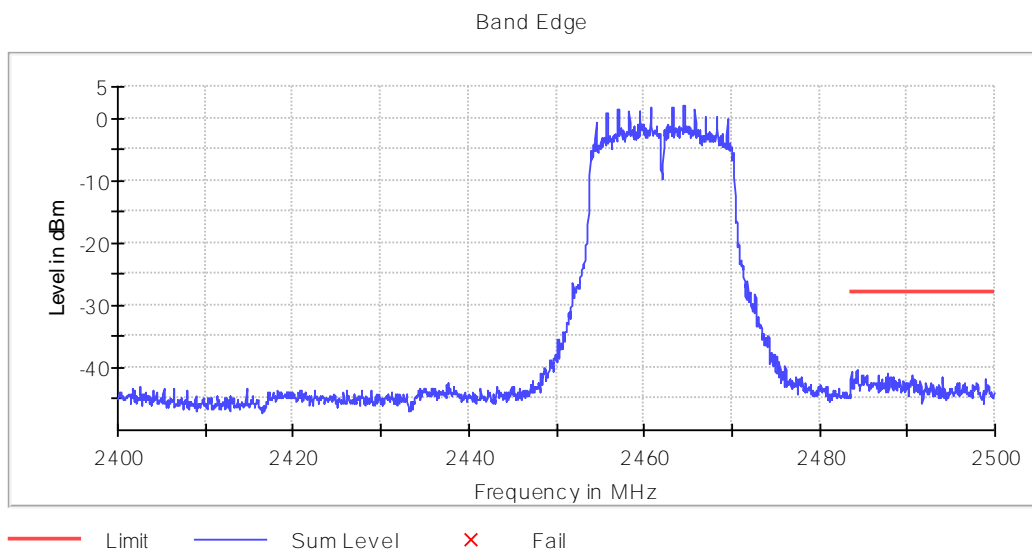
Plots:

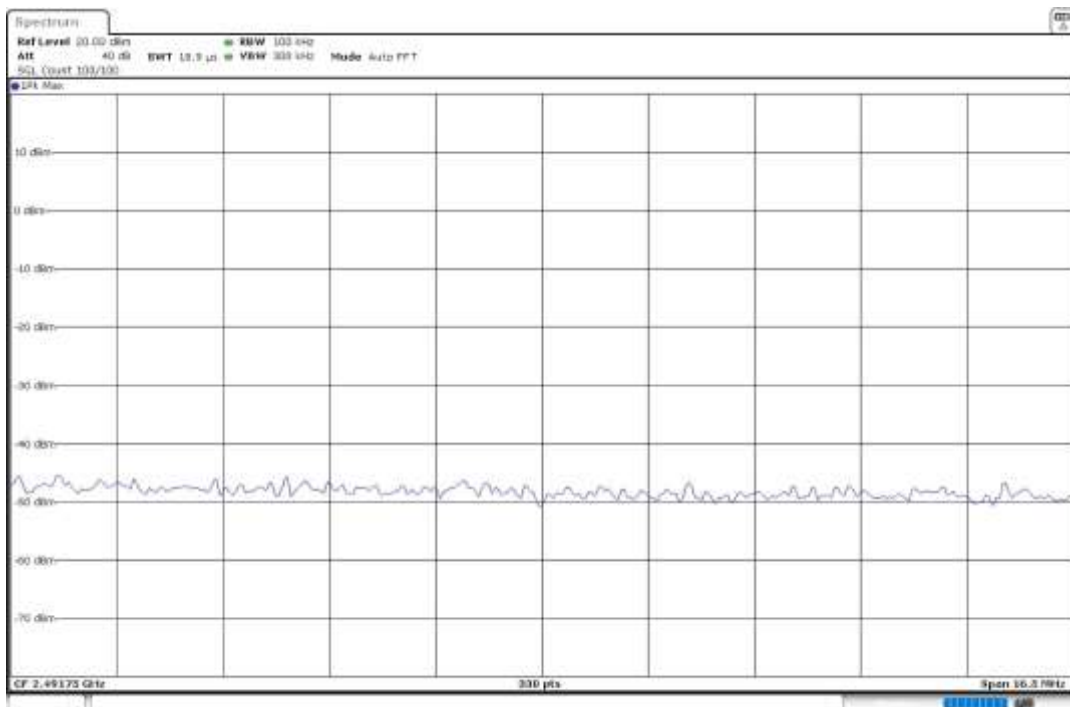
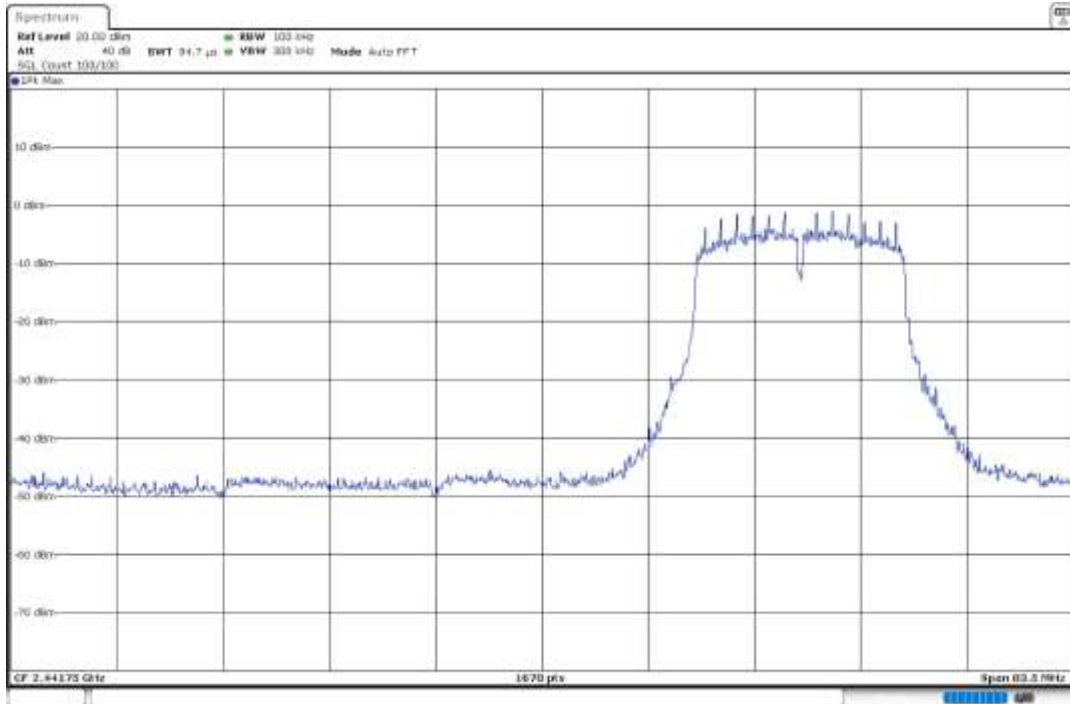




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11g (OFDM 6 Mbit/s)

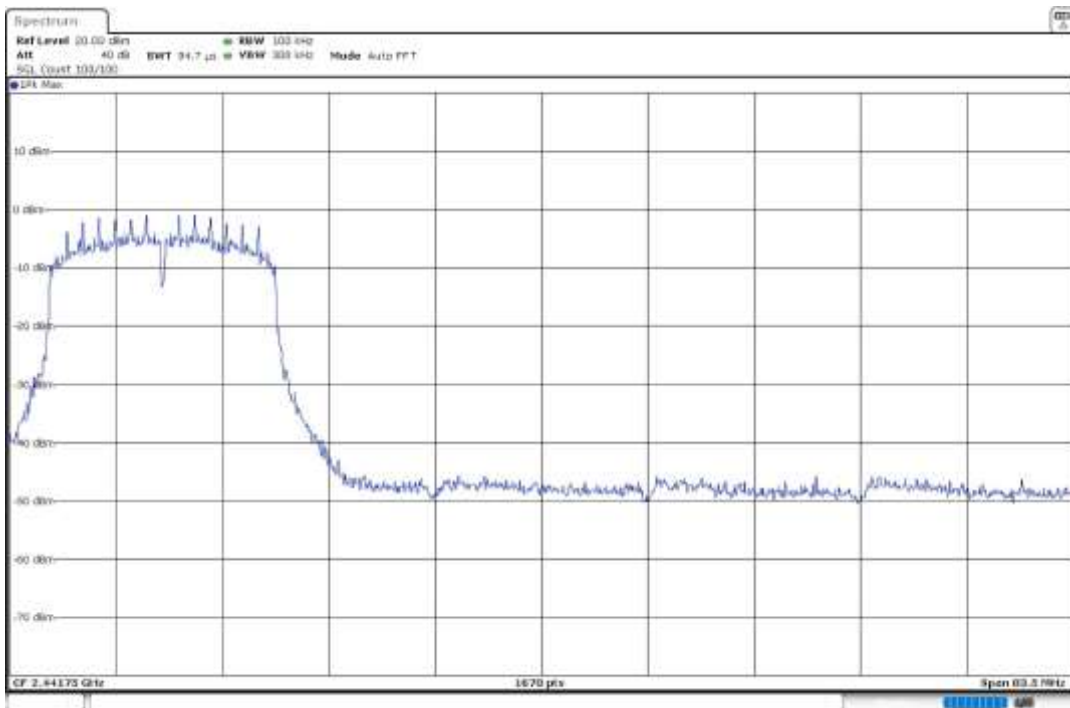
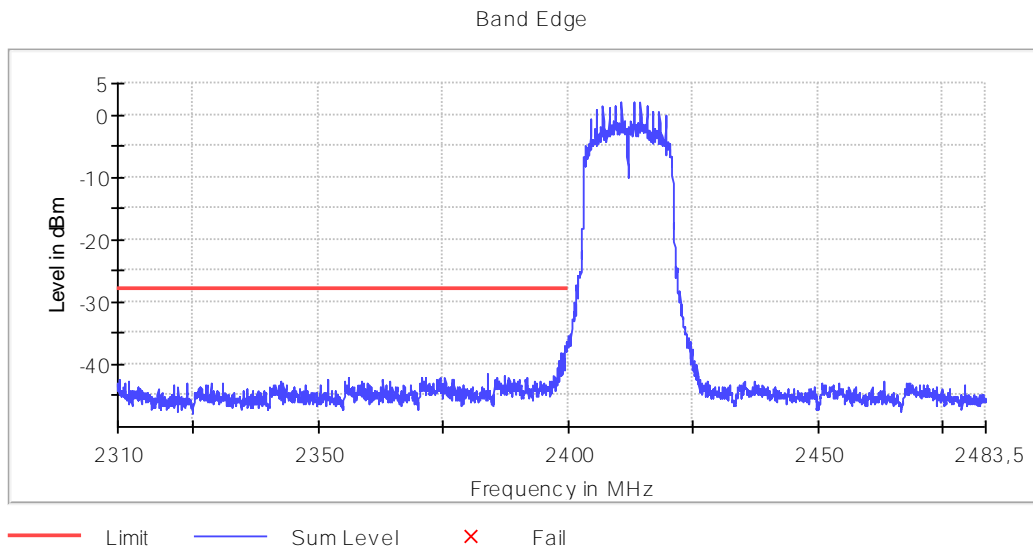
Plots:

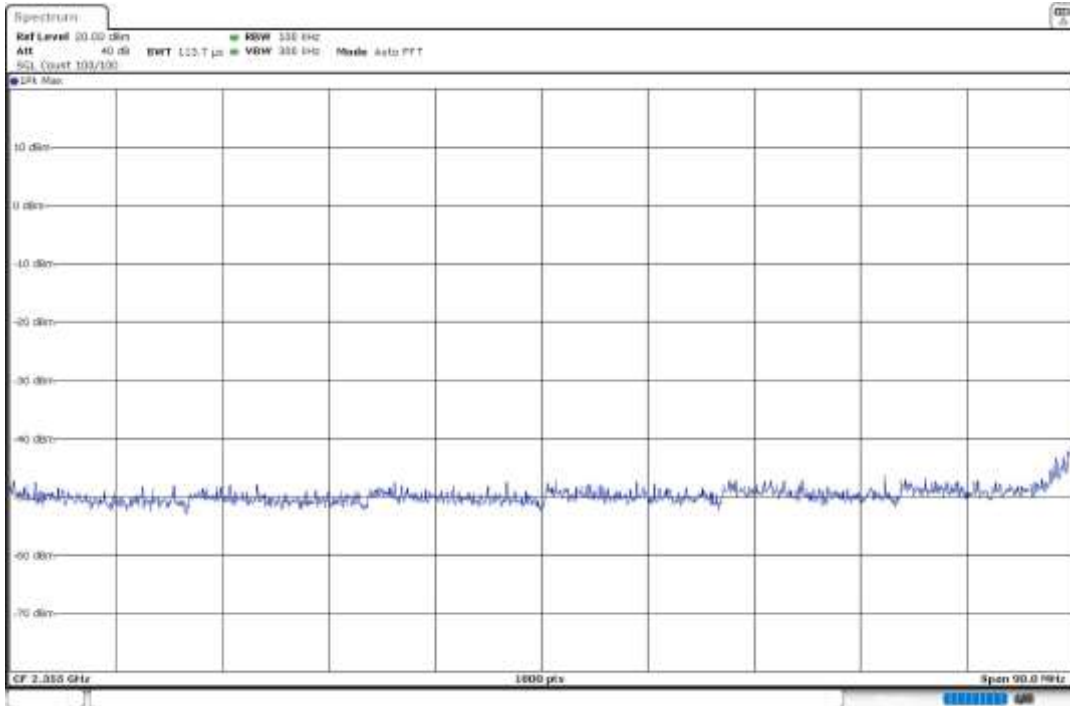




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2412.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

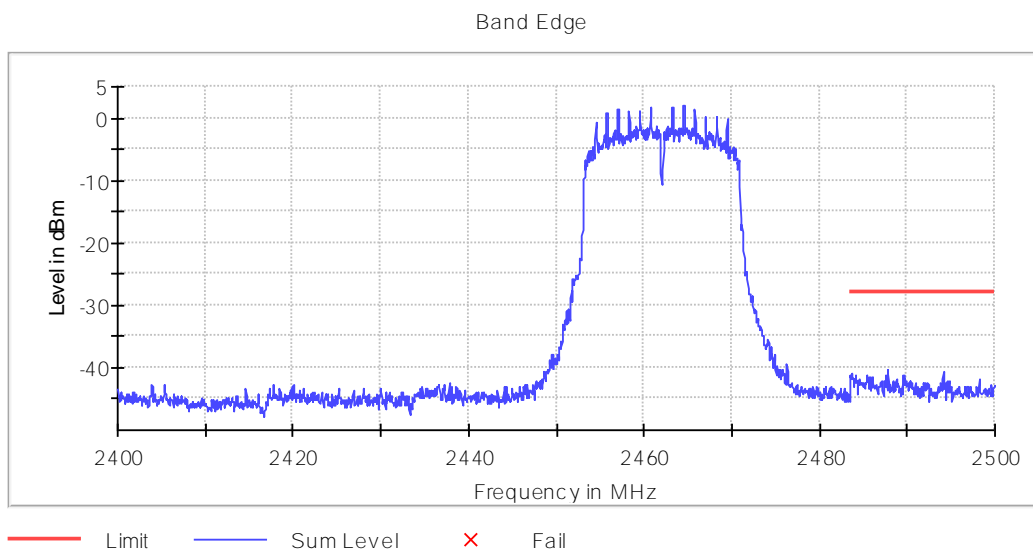
Plots:

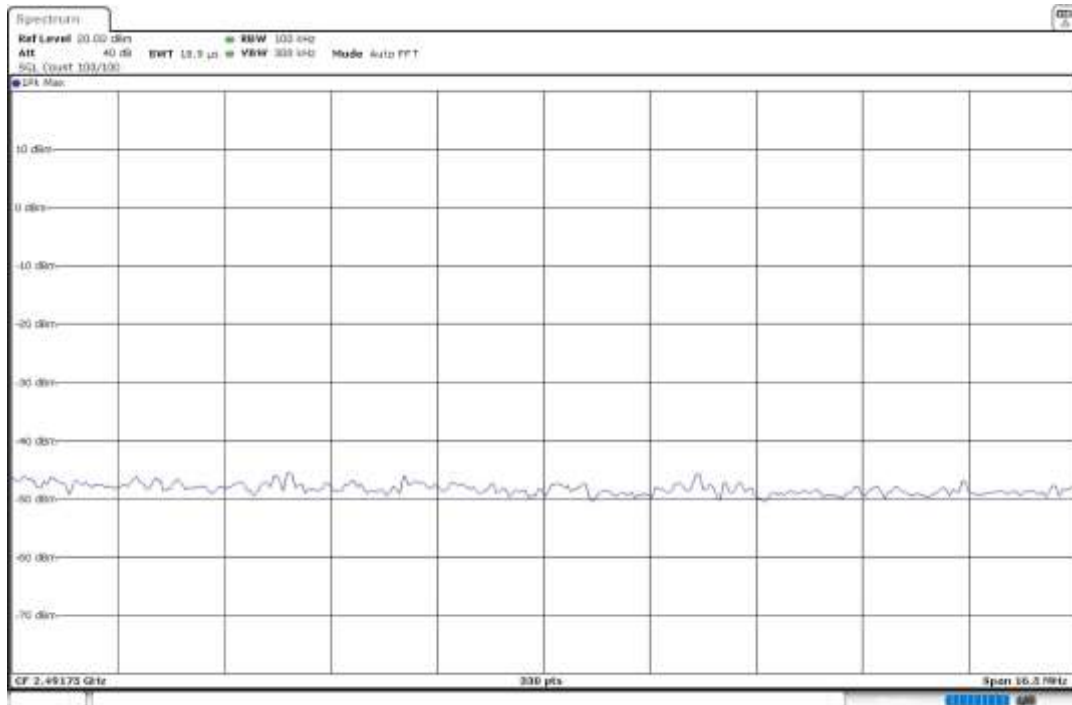
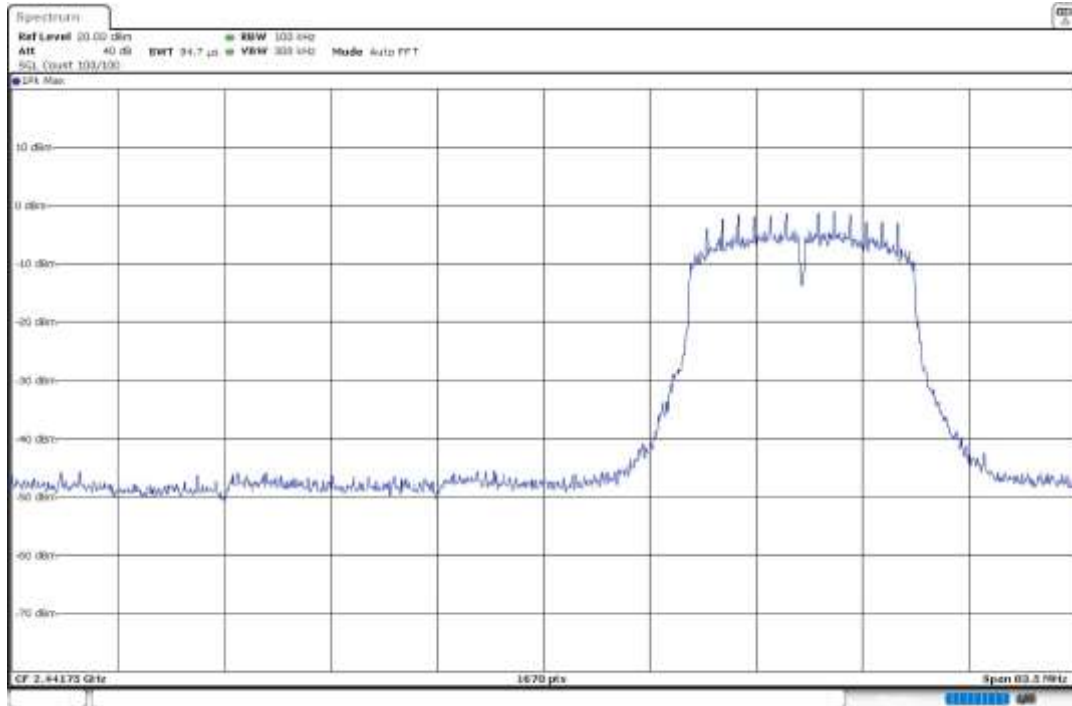




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2462.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

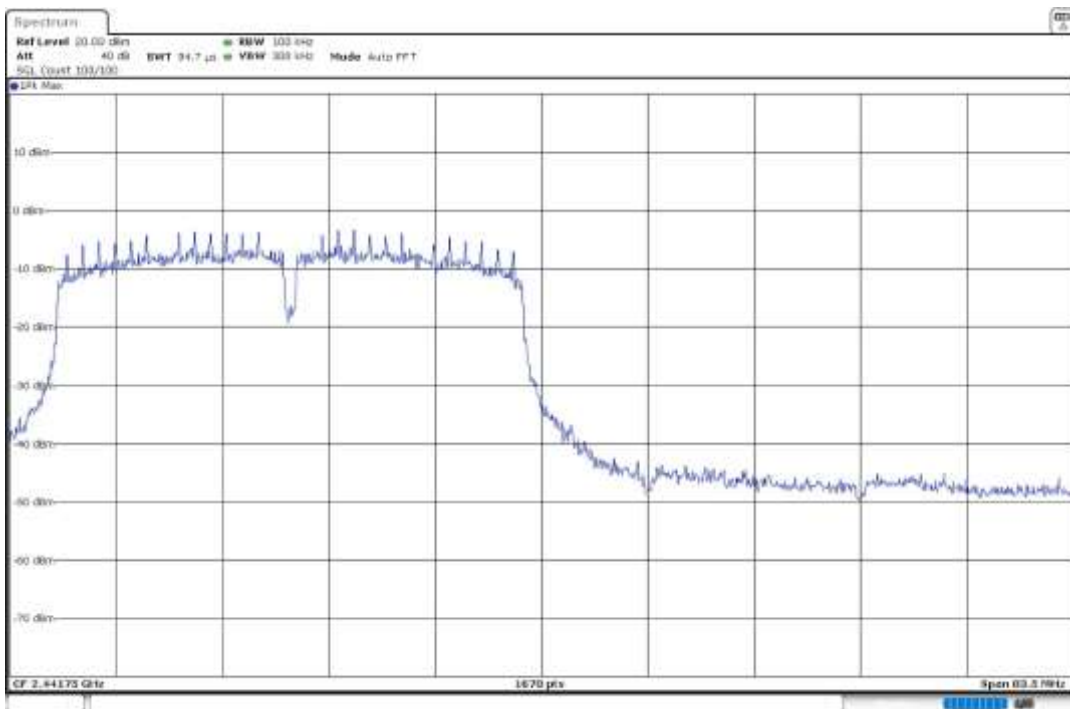
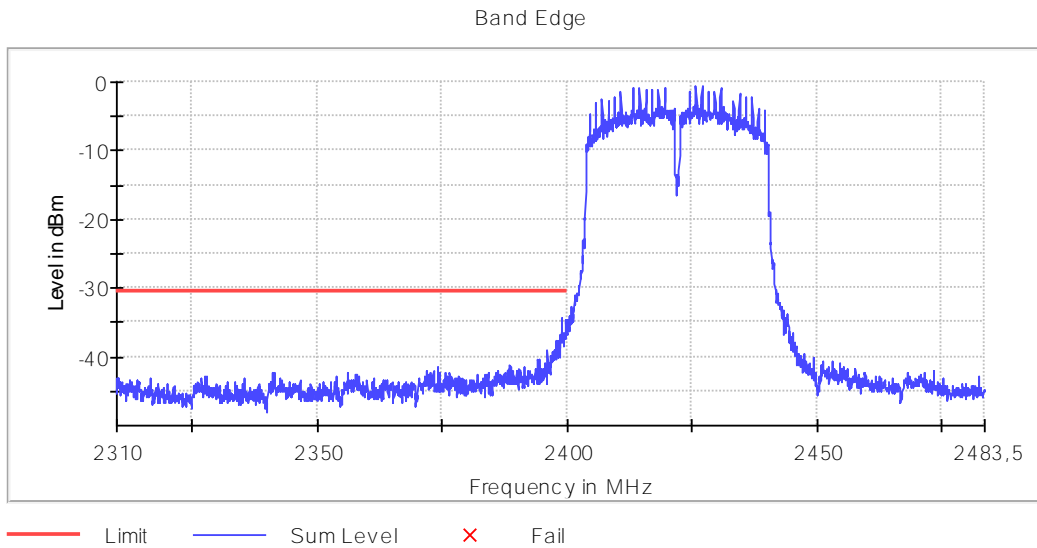
Plots:

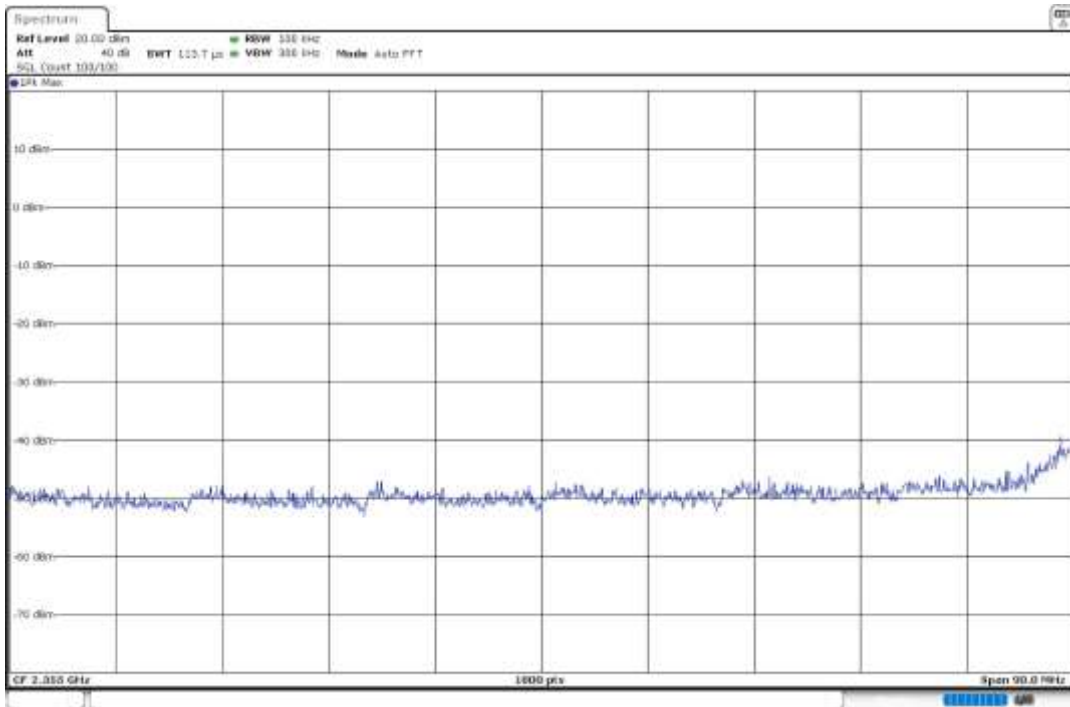




Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2422.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:





Operation Band (MHz) = [2400, 2483.5], Frequency (MHz) = 2452.00, Equipment Type: Digital Transmission System (DTS), Modulation: 802.11n HT40 (OFDM MCS0 13.5 Mbit/s)

Plots:

