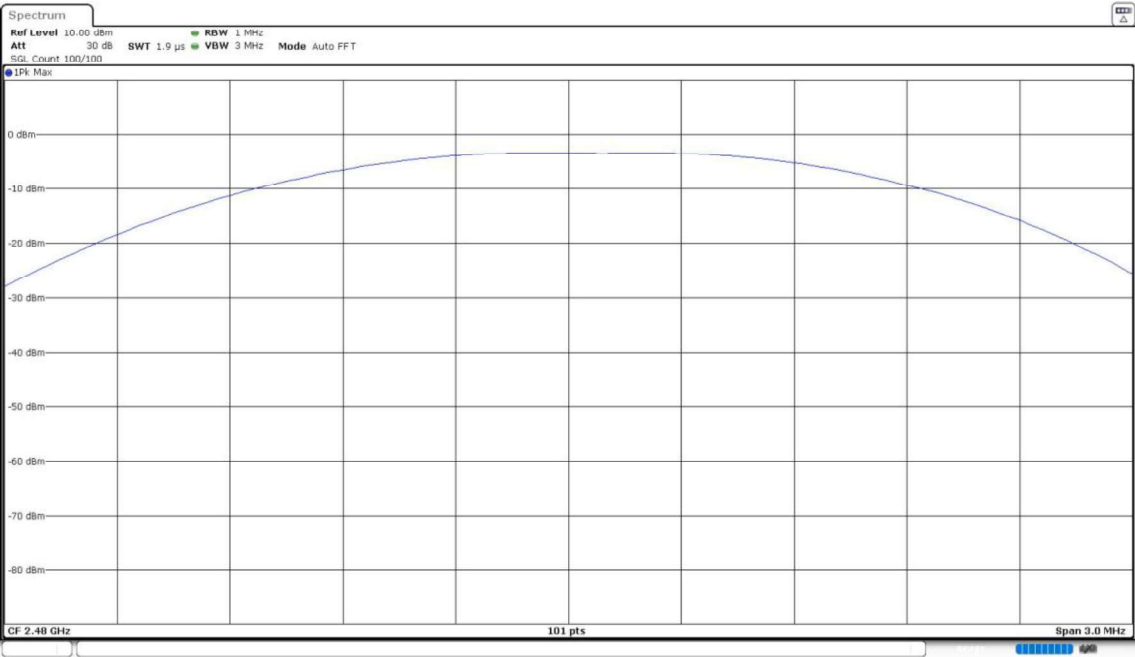
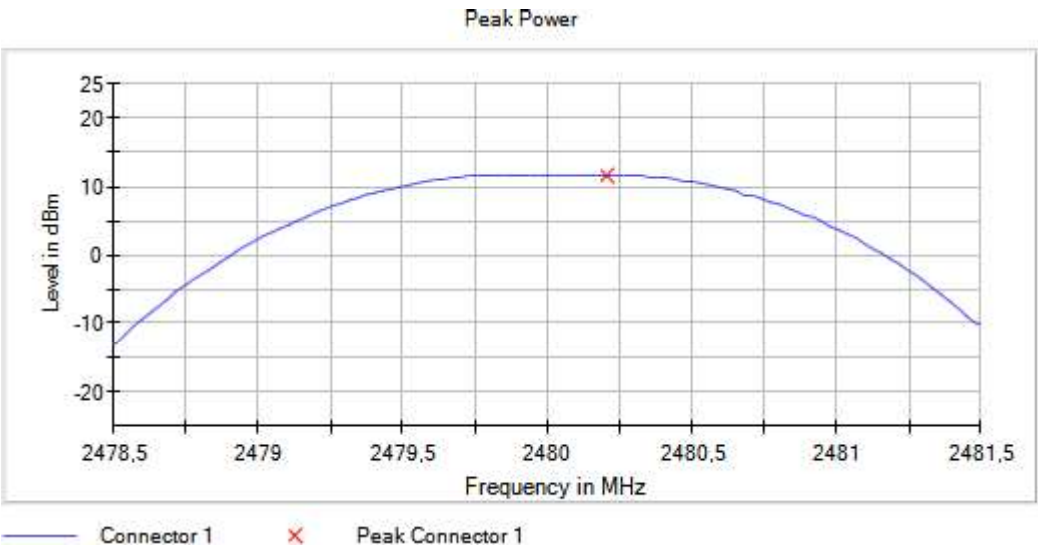


Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



RSS-247 5.5 / FCC 15.247 (d) [Bndedge] 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.

Modulation: BT (GFSK 1-DH5)

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.

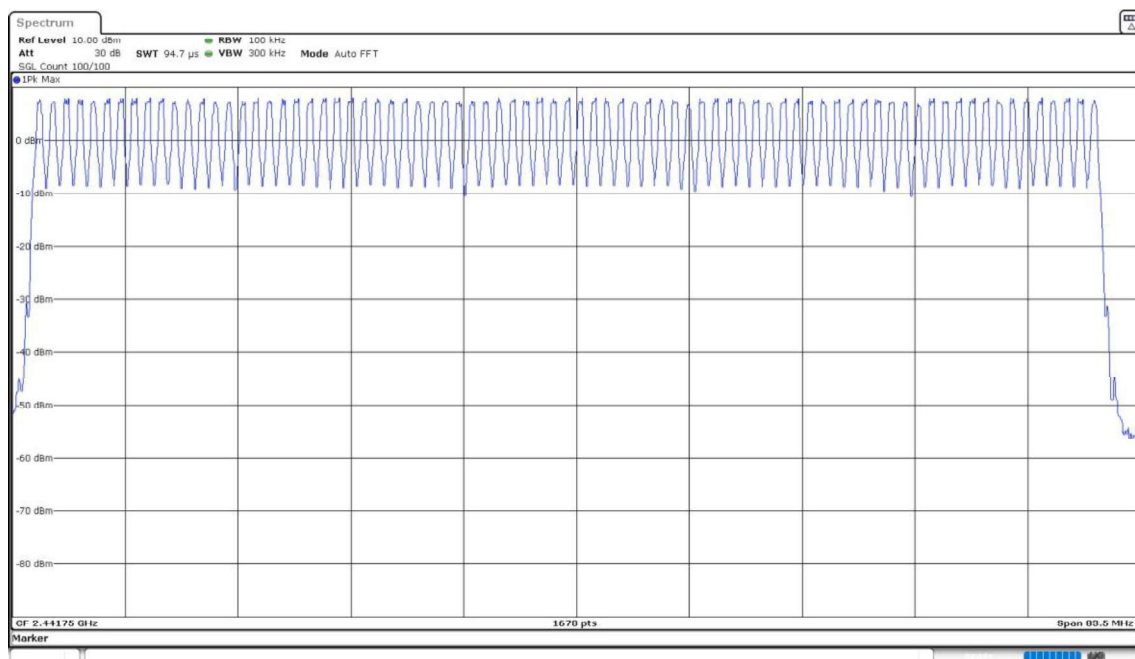
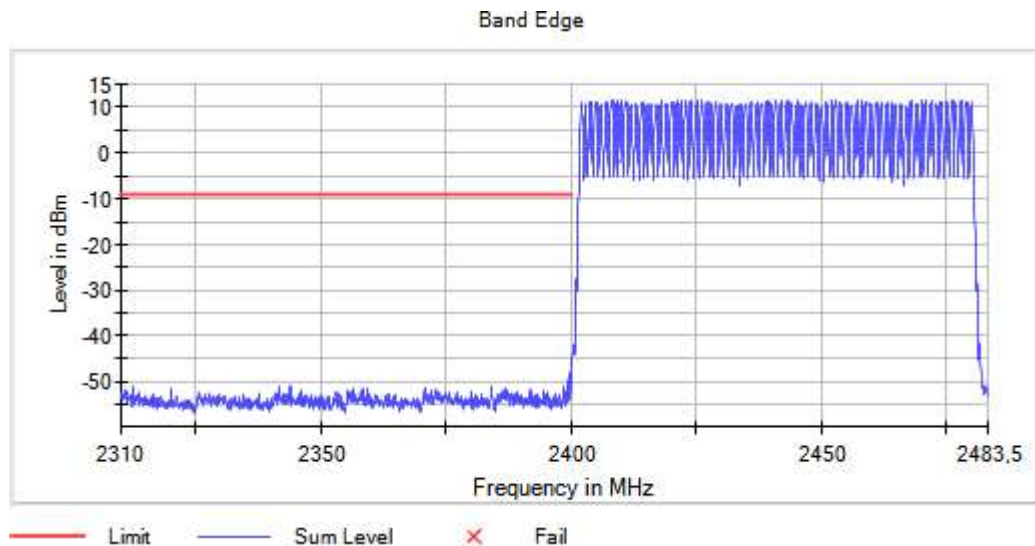
Verdict

Pass

Attachments

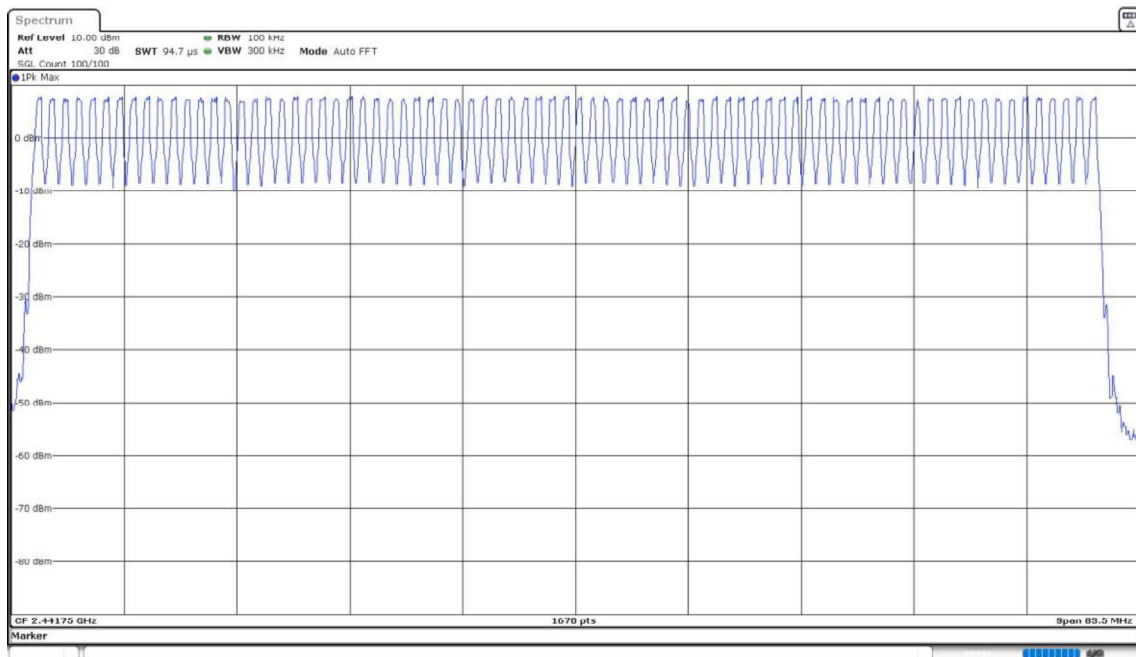
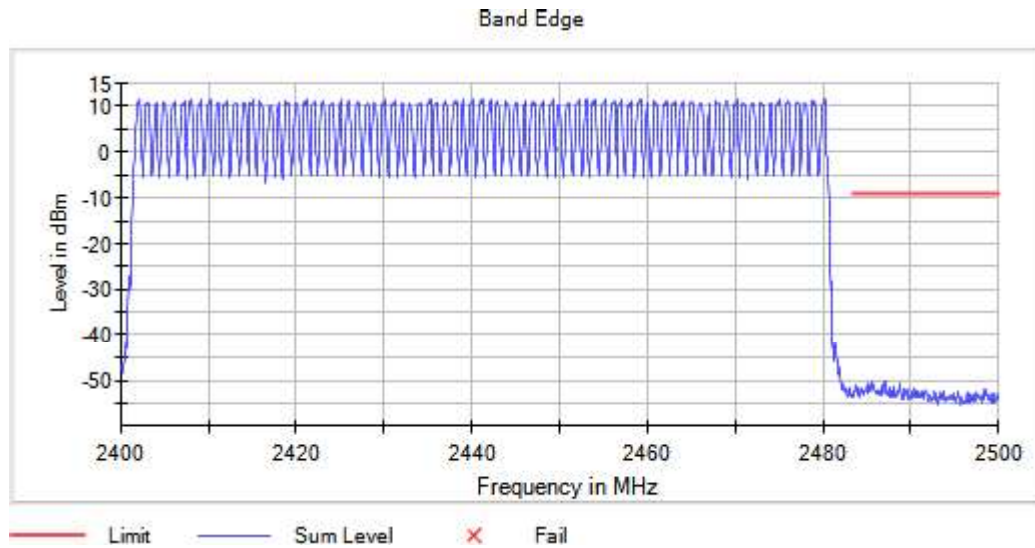
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



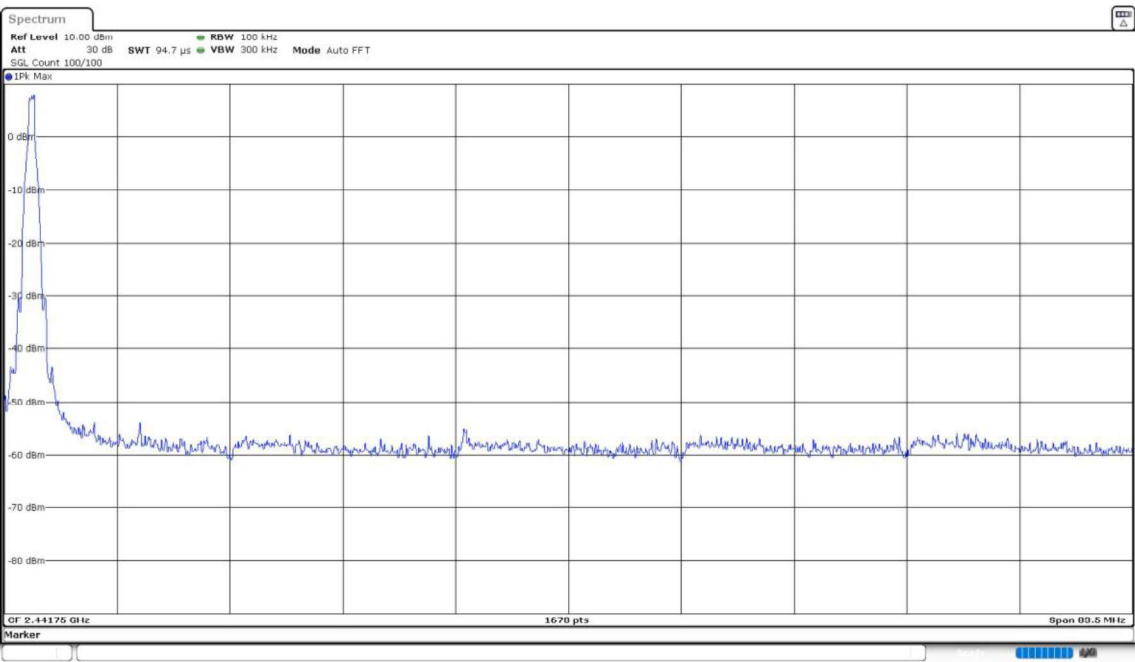
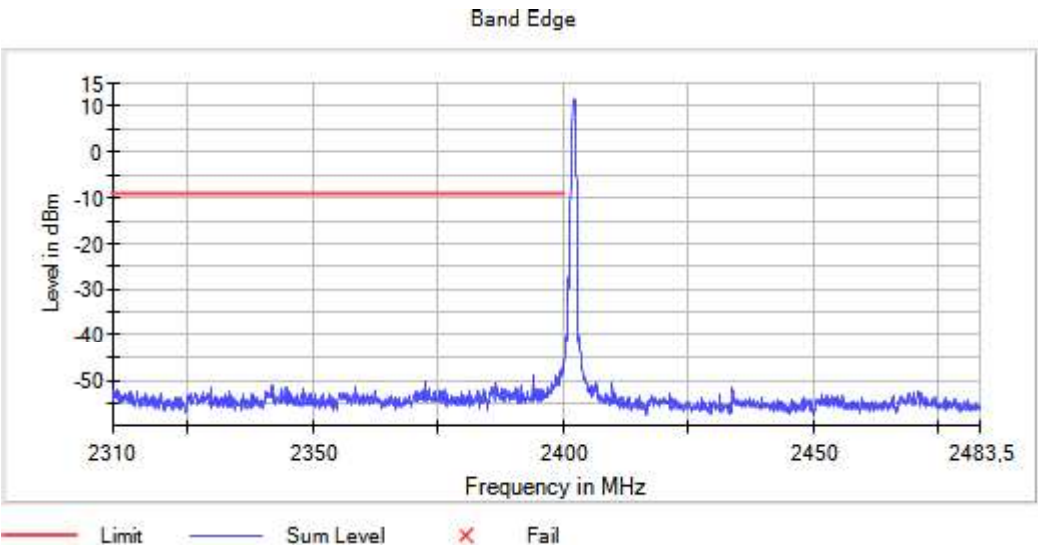
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



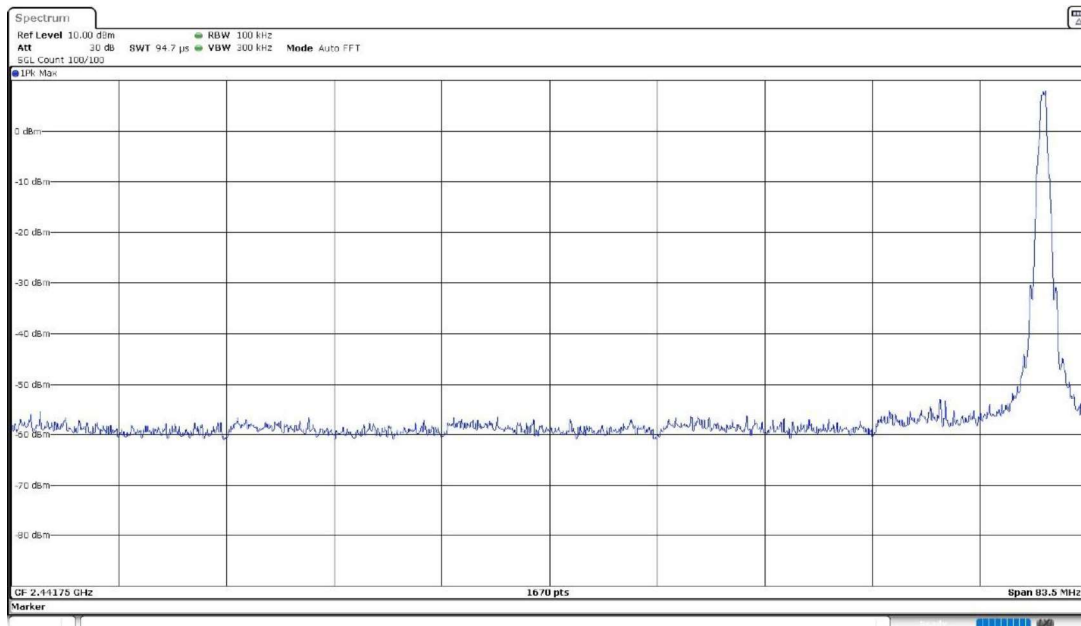
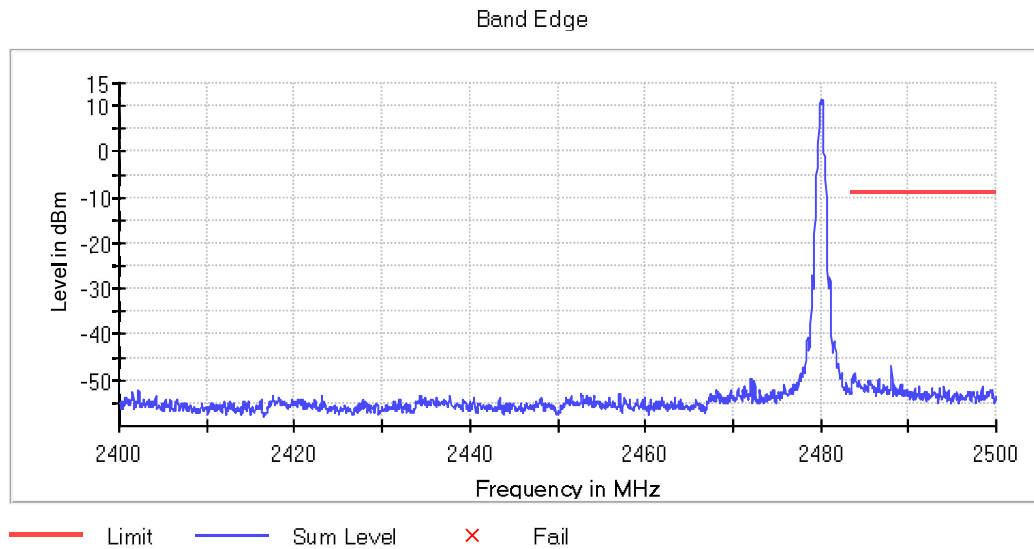
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



Modulation: BT (Pi/4 DQPSK 2-DH5)

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.

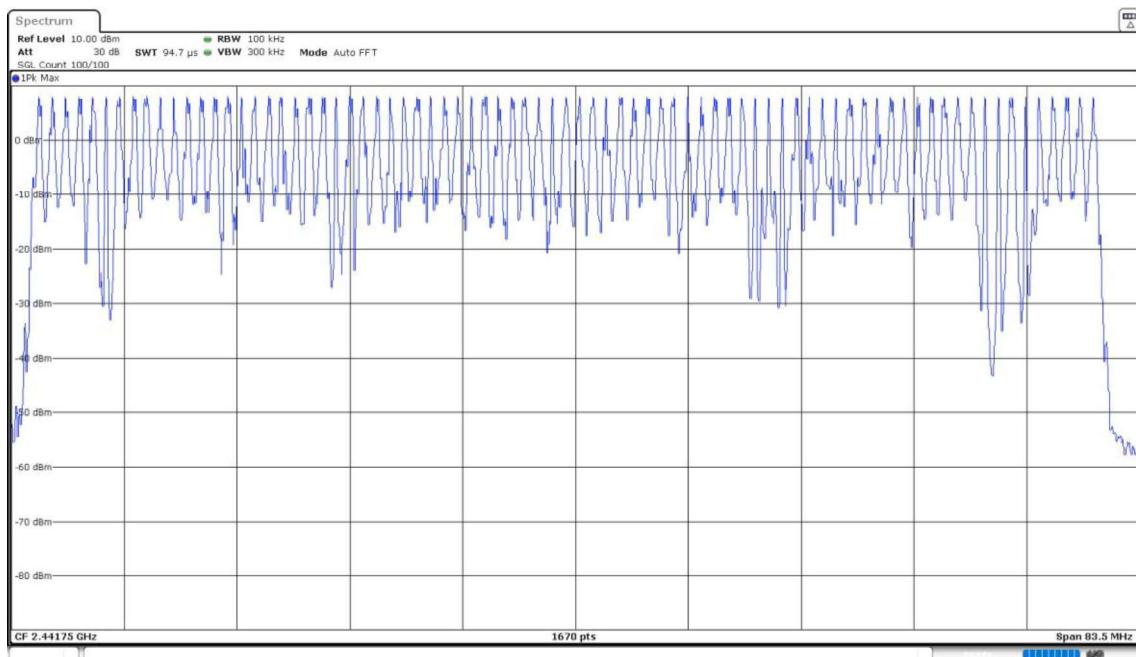
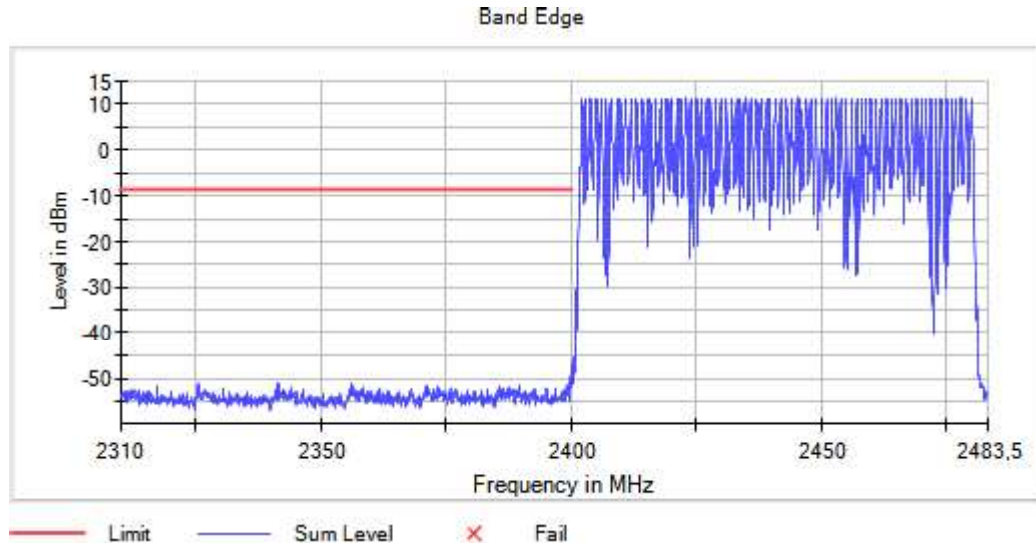
Verdict

Pass

Attachments

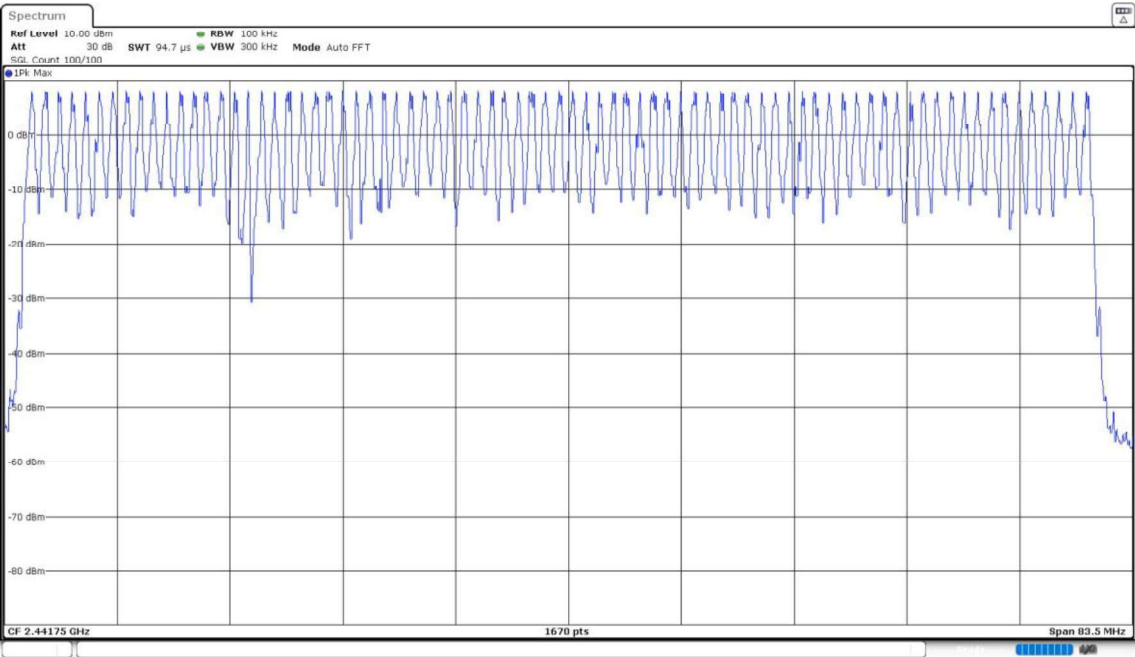
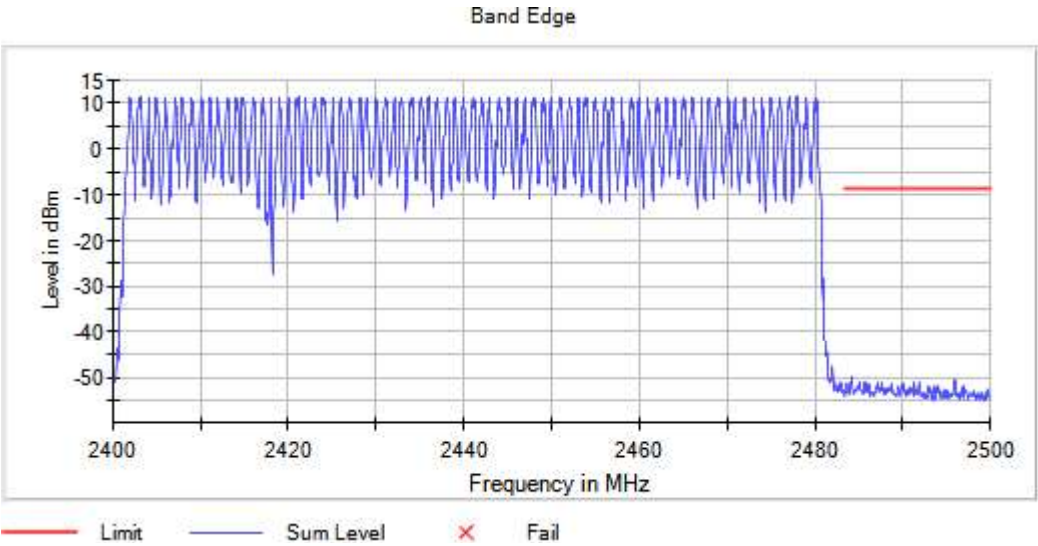
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



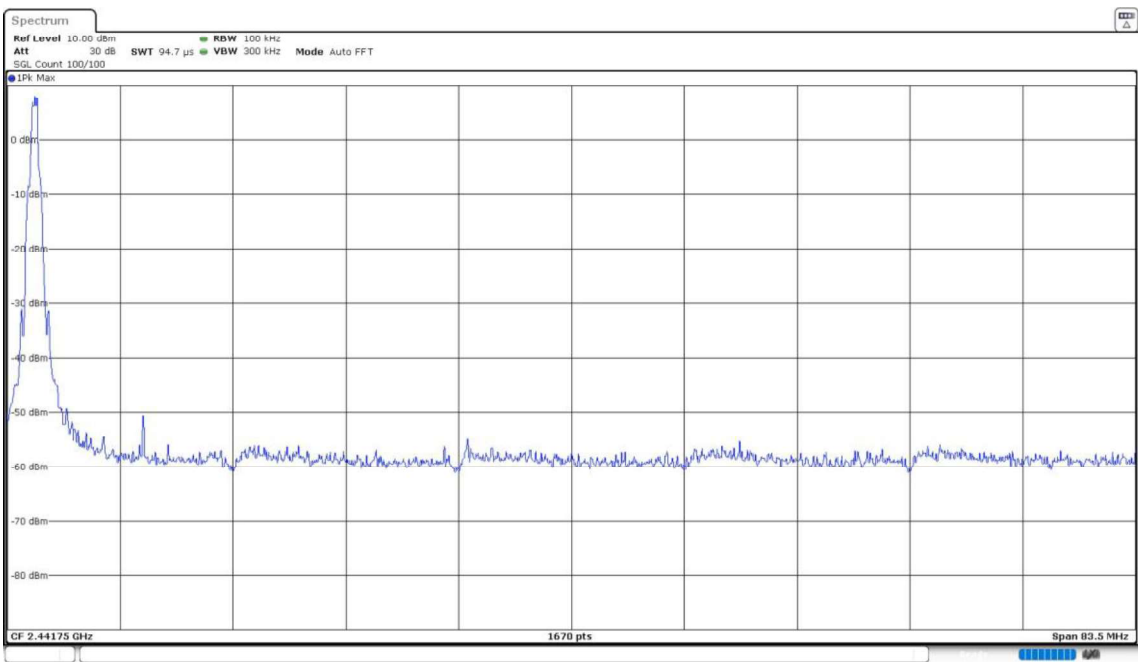
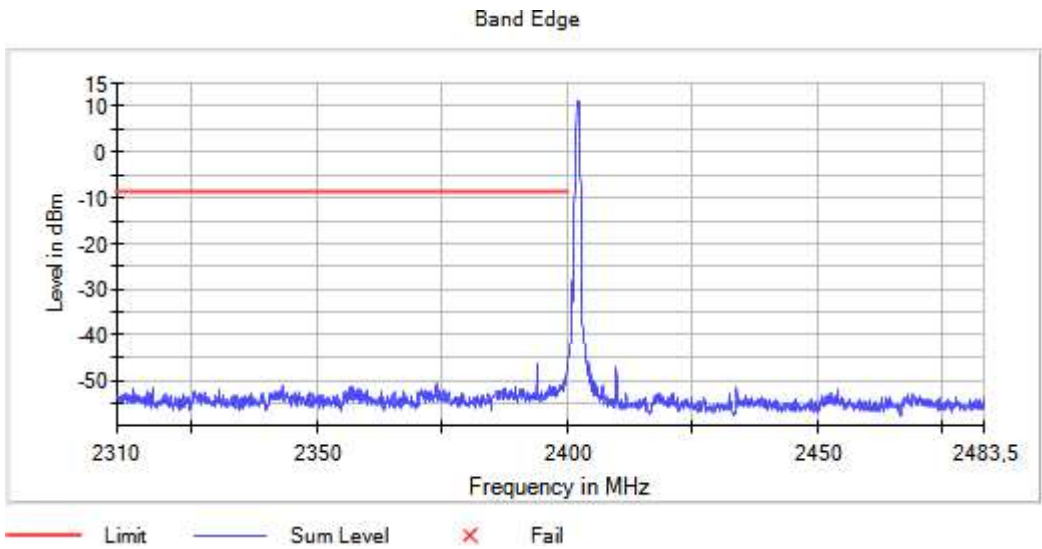
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



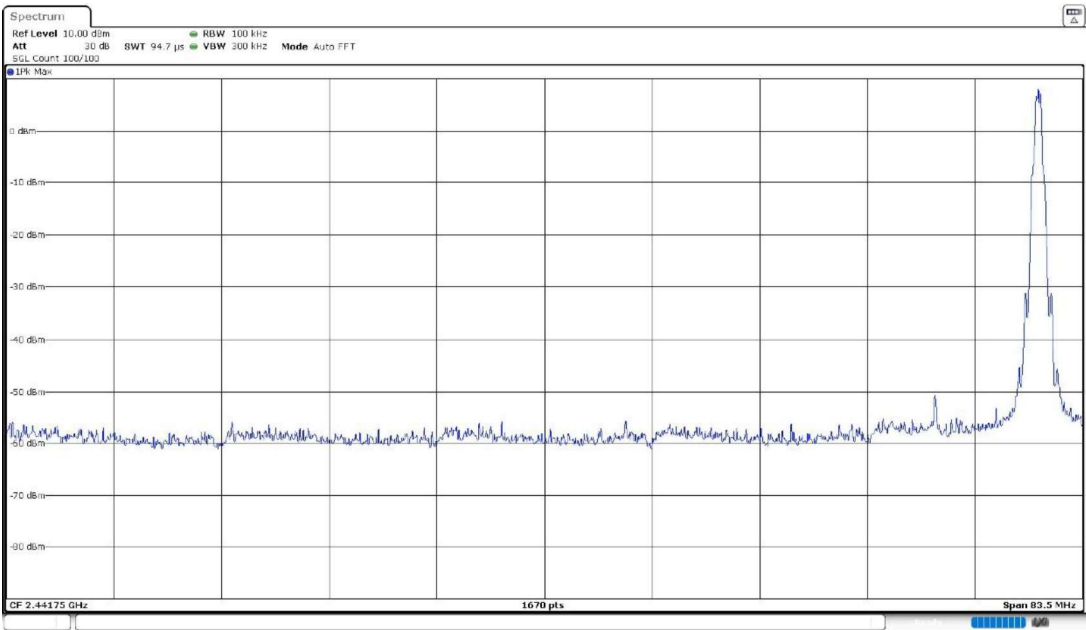
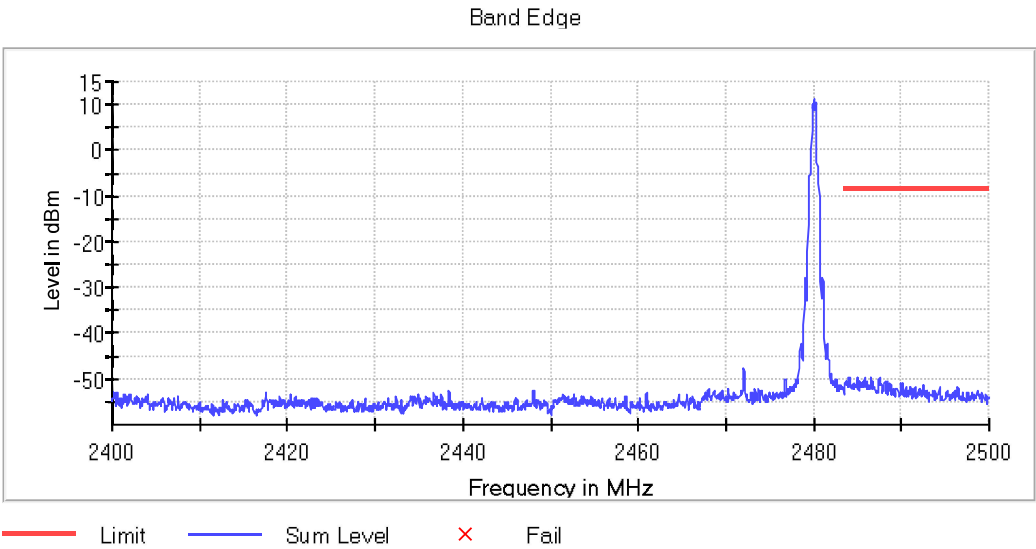
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Modulation: BT (8DPSK 3-DH5)

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.

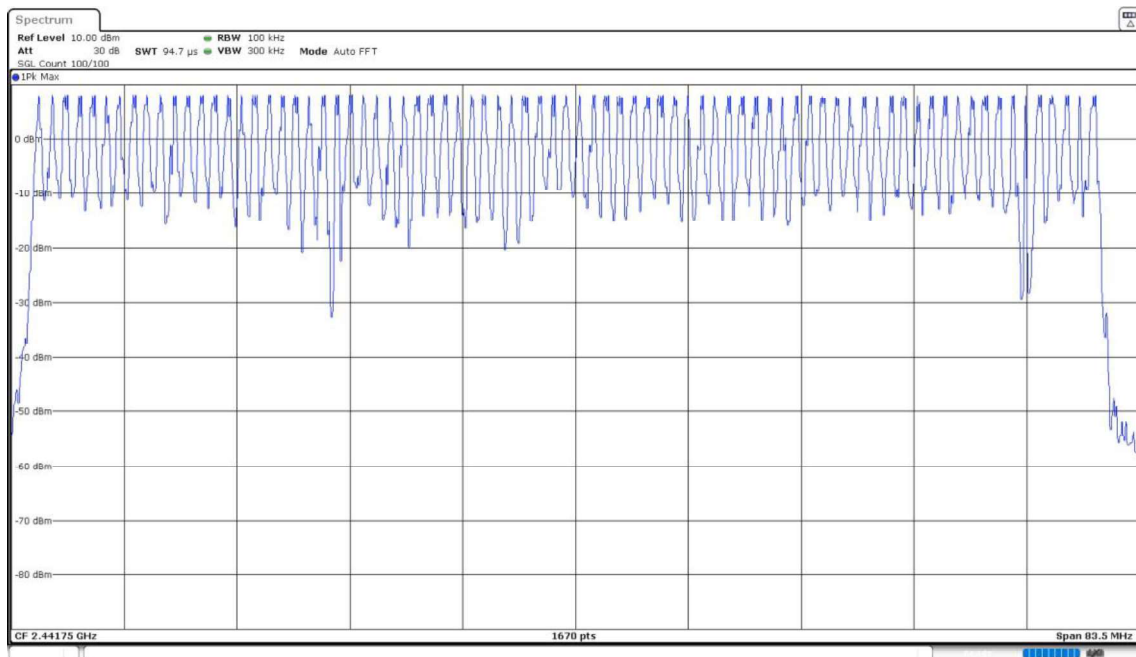
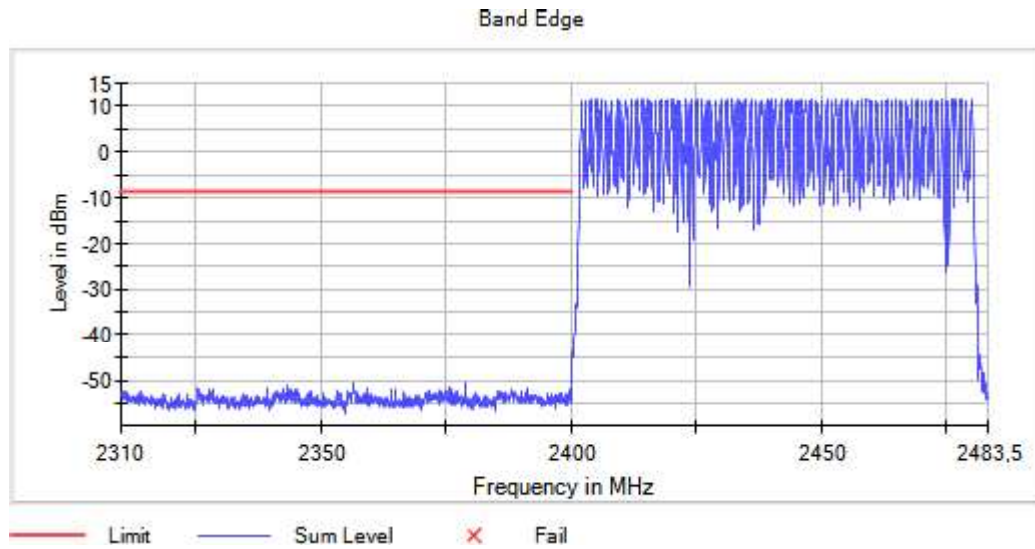
Verdict

Pass

Attachments

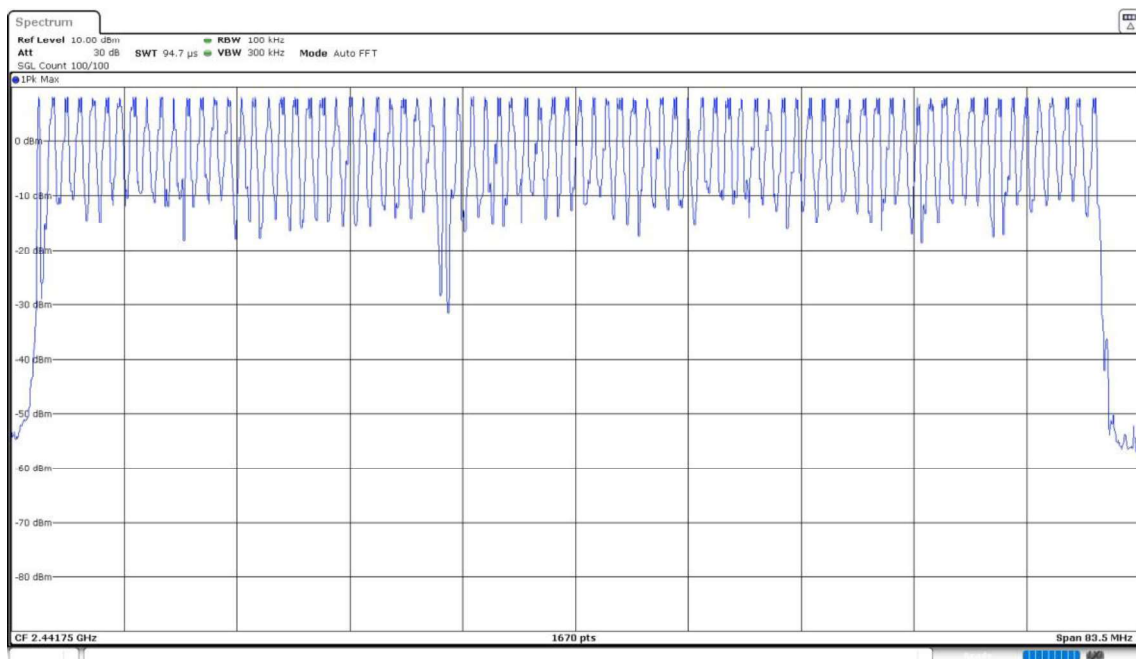
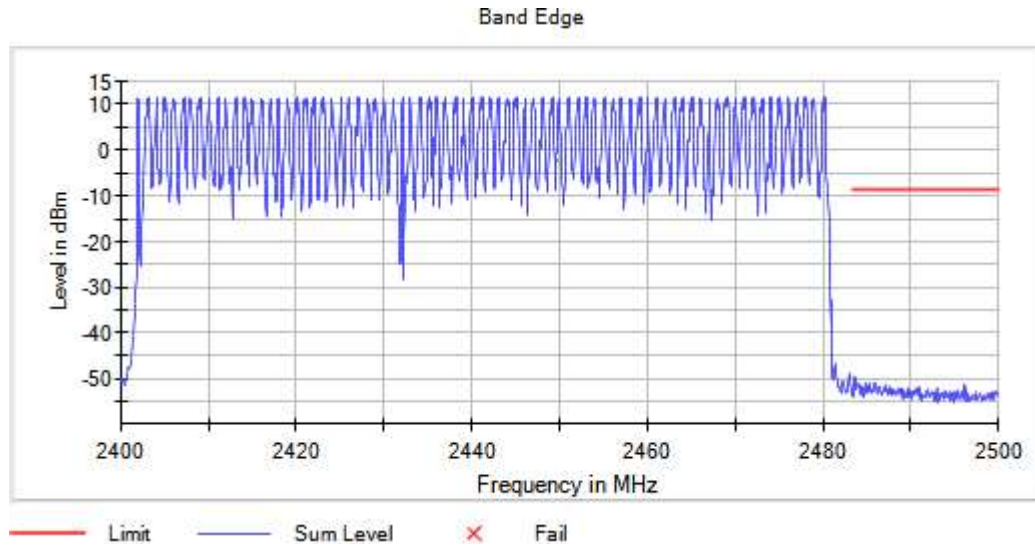
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



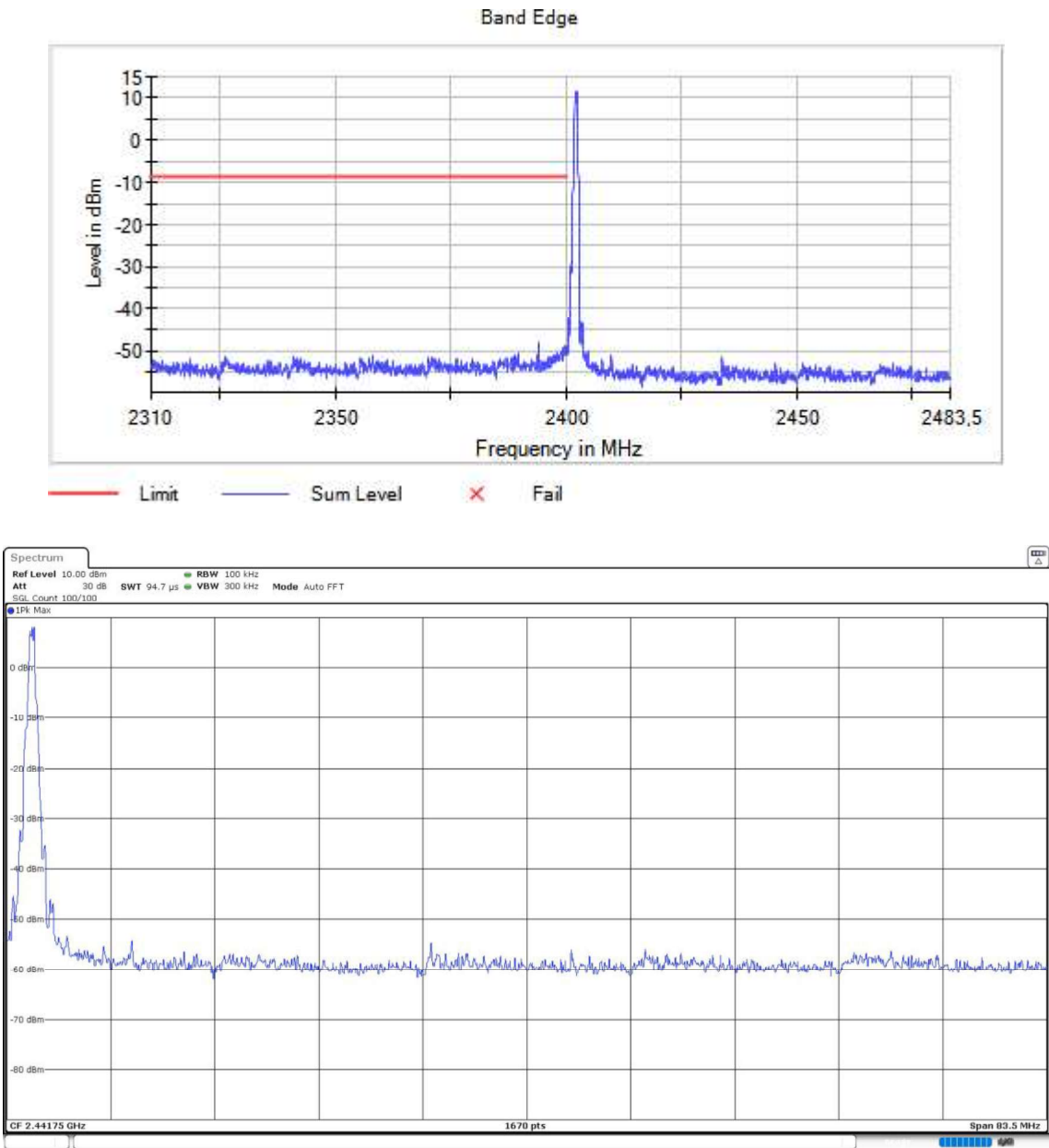
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



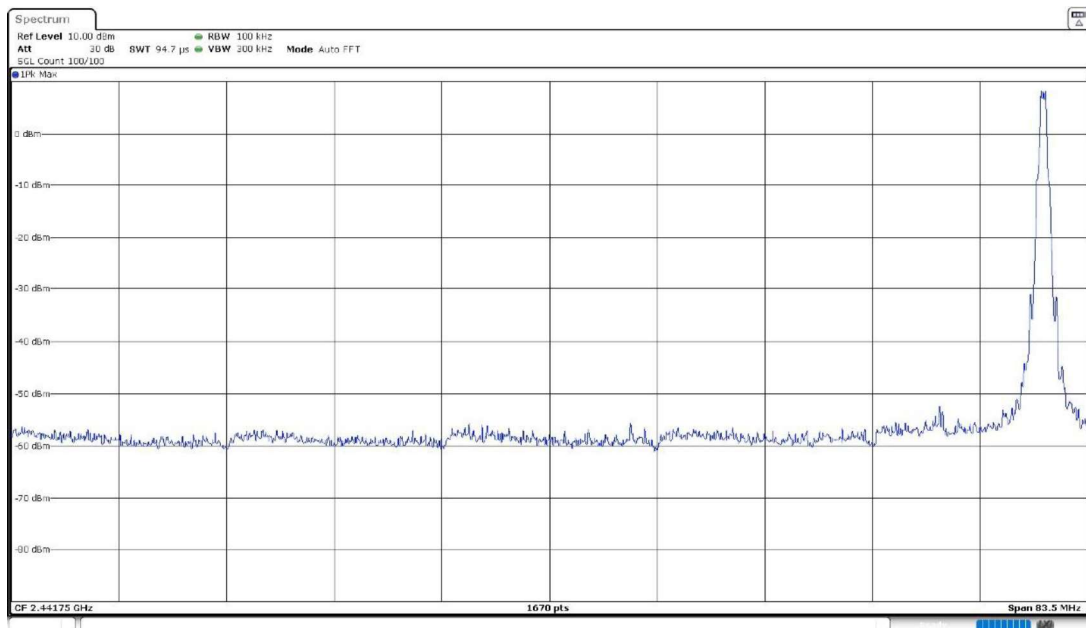
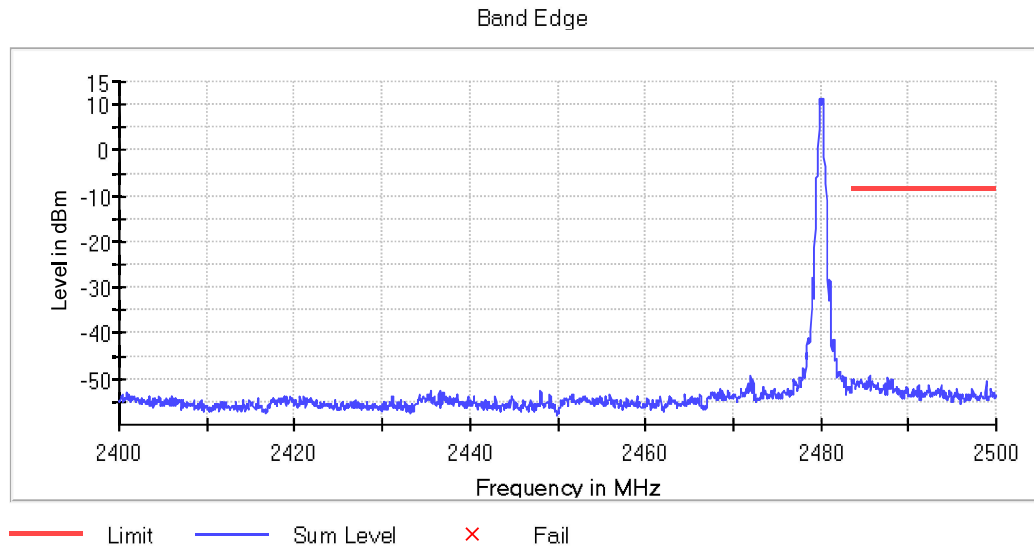
Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



Operation Band = [2400, 2483.5] MHz, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)

Limits

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
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	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency range 30 MHz - 1 GHz (worst-case):

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Results

No spurious frequencies at less than 20 dB below the limit.

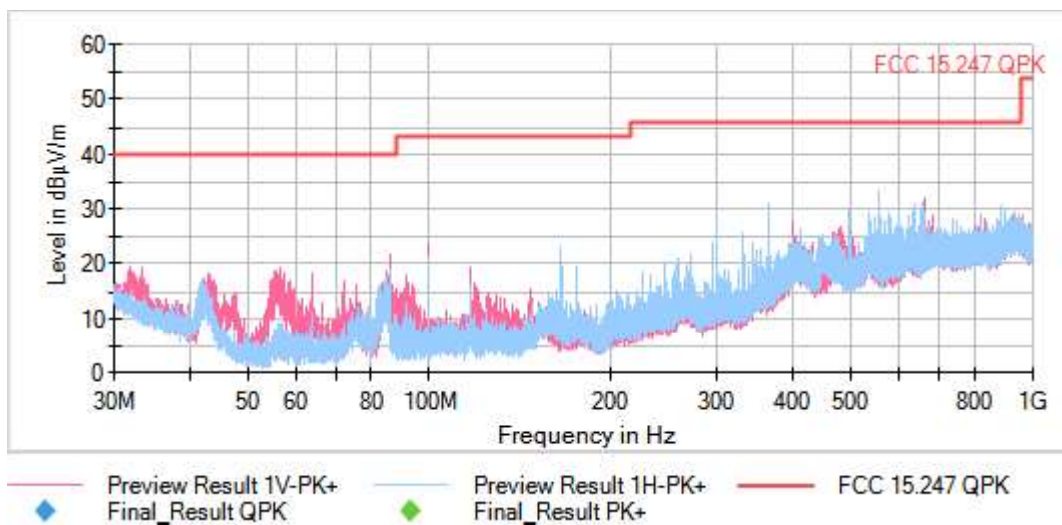
Verdict

Pass

Attachments

Frequency MHz = The spurious frequencies detected do not depend on the operating channel, Equipment Type = Frequency Hopping Spread Spectrum systems (DSSS), Modulation = The spurious frequencies detected do not depend on the modulation, Frequency Range GHz = [0.03, 1]

Images:



Modulation: BT (GFSK 1-DH5)

Results

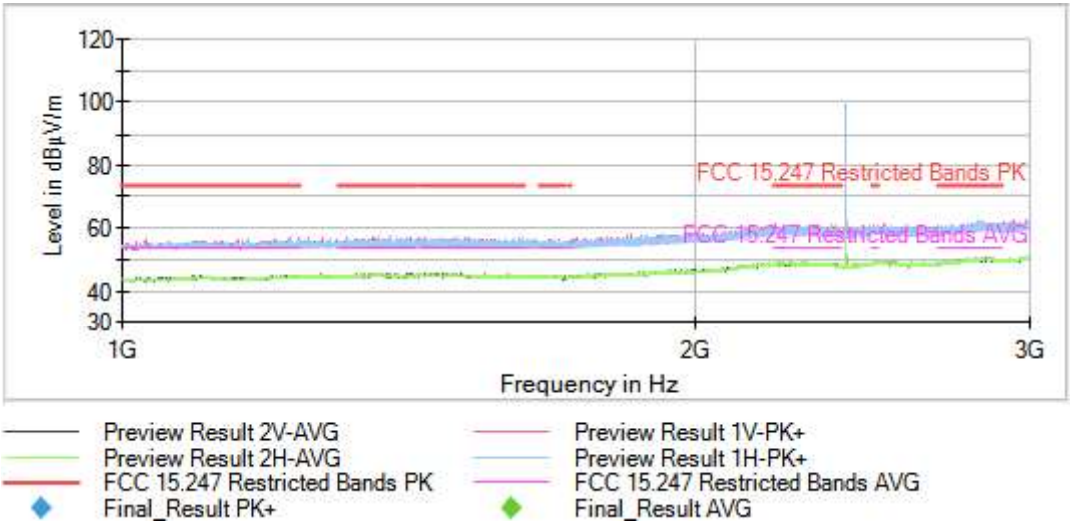
No spurious frequencies at less than 20 dB below the limit.

Verdict

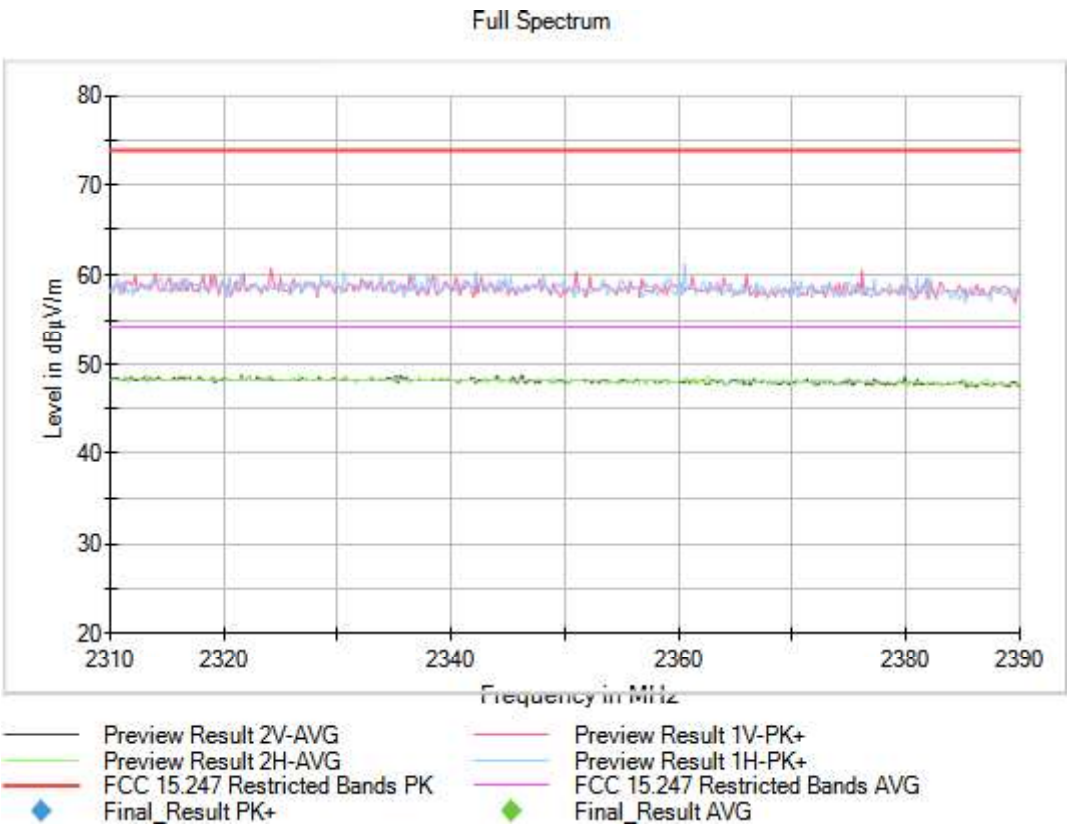
Pass

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

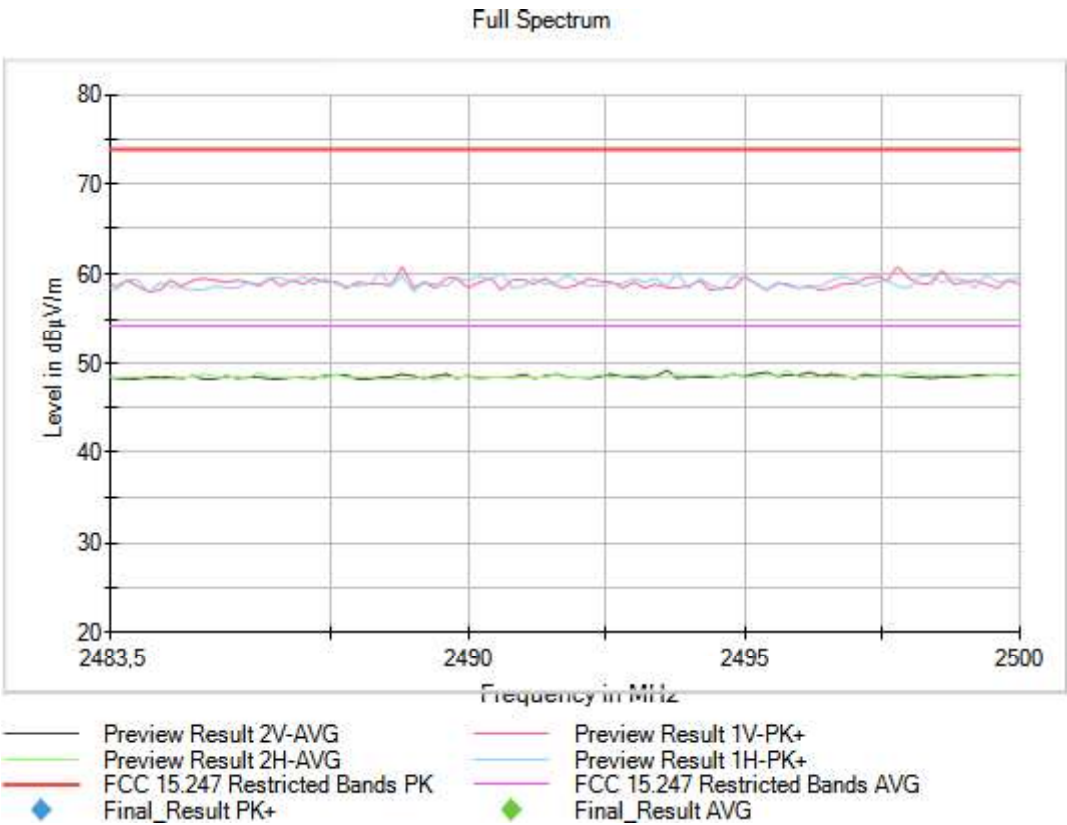
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

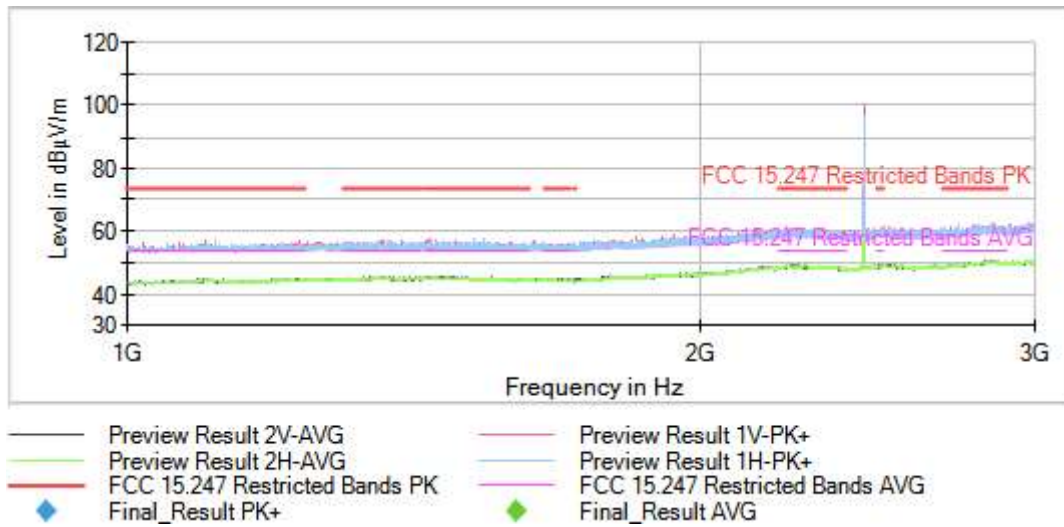


FREQUENCY RANGE 2.4835-2.5 GHz:

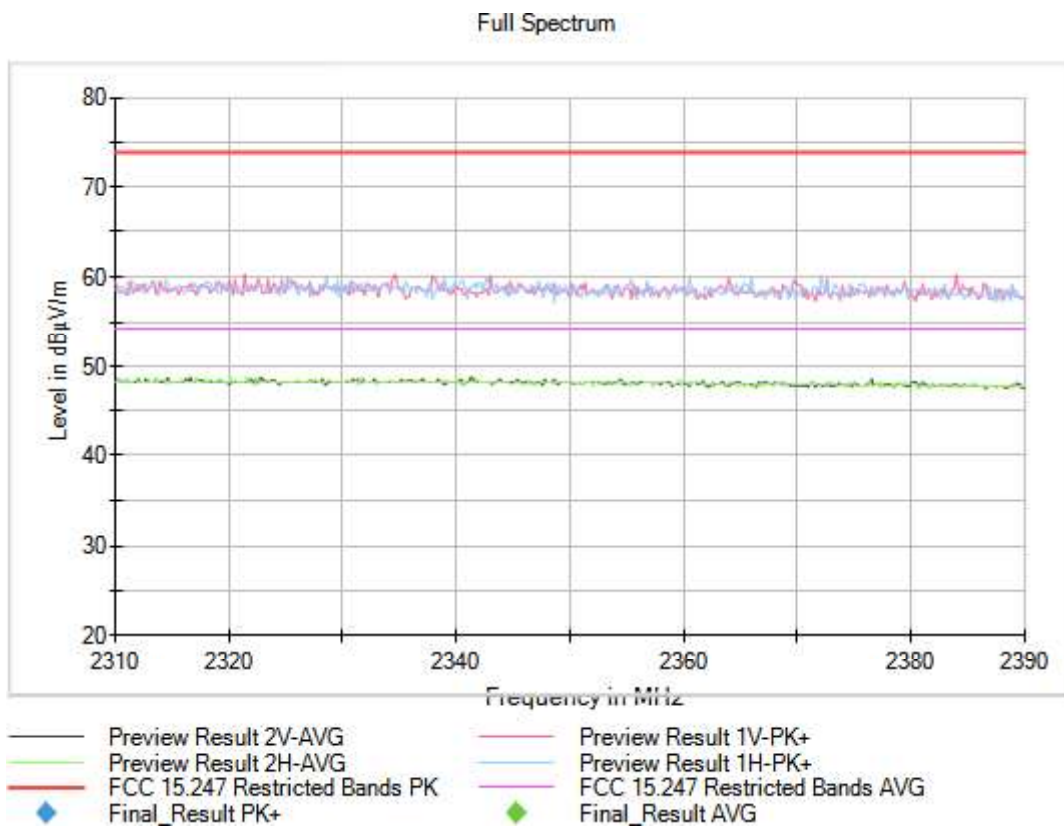


**Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (GFSK 1-DH5), Frequency Range GHz = [1, 3]**

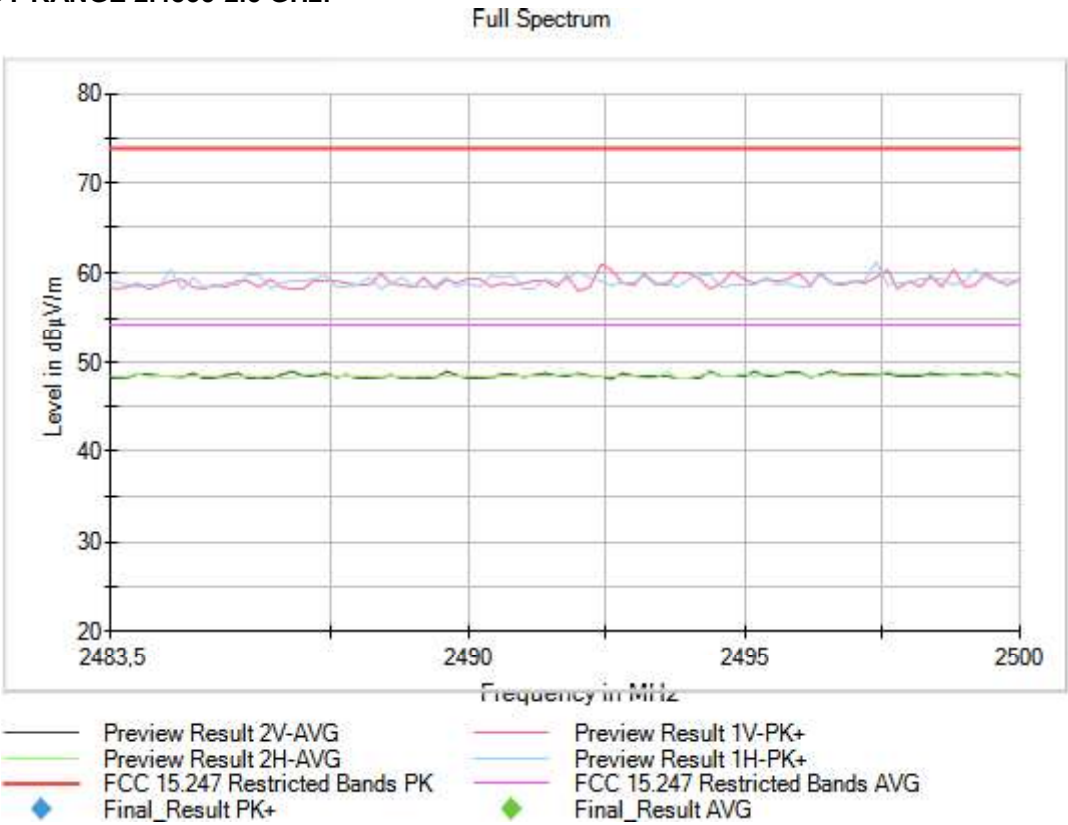
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

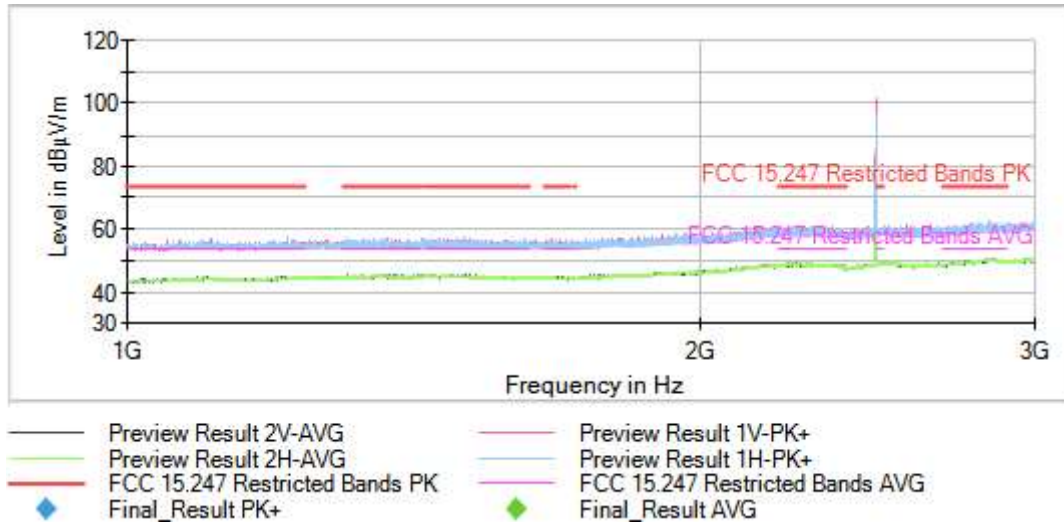


FREQUENCY RANGE 2.4835-2.5 GHz:



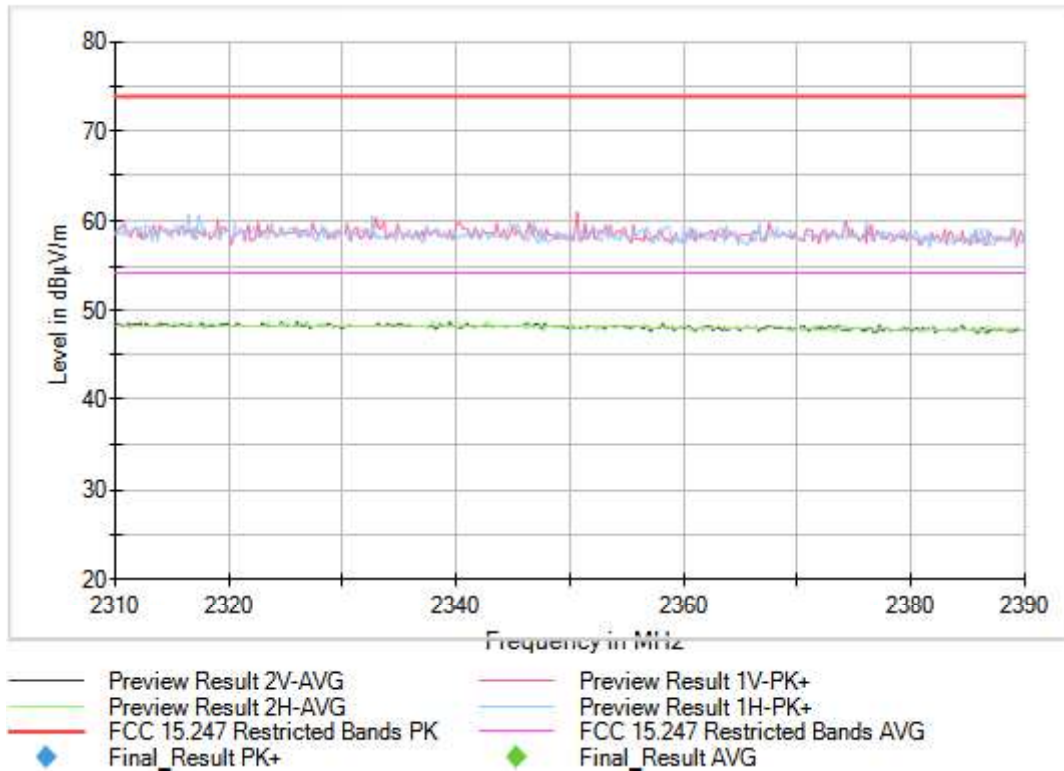
**Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (GFSK 1-DH5), Frequency Range GHz = [1, 3]**

Images:

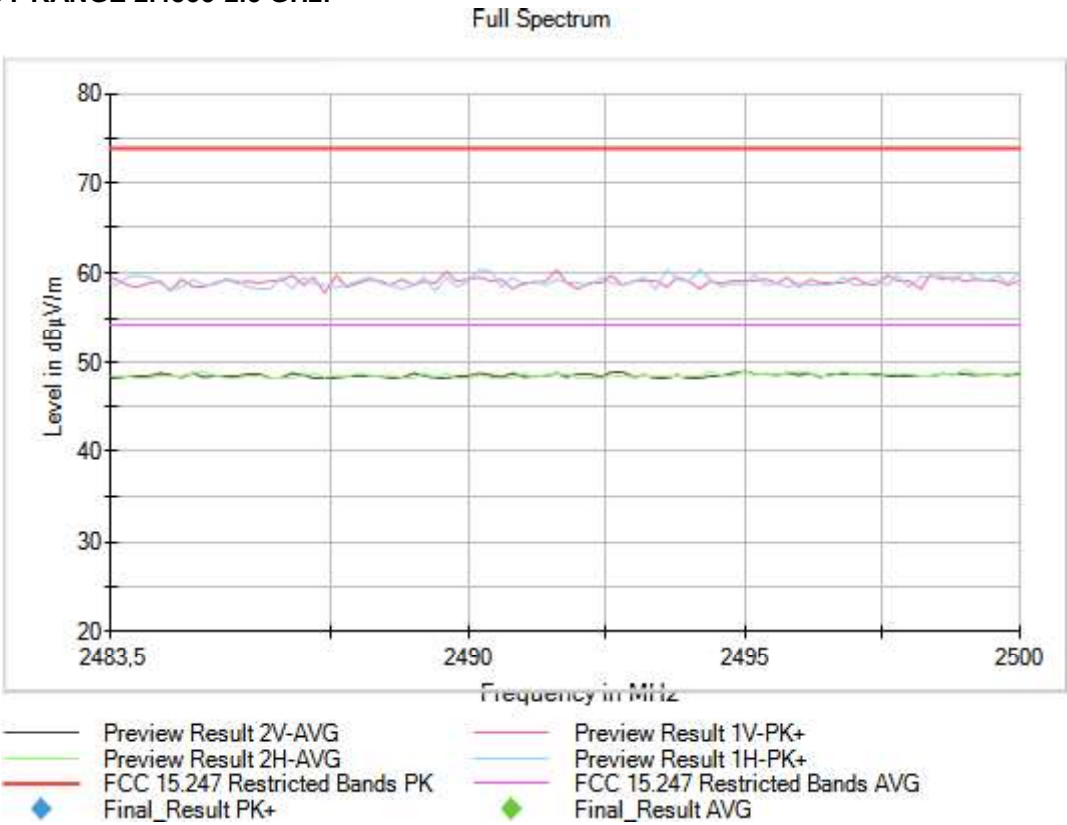


FREQUENCY RANGE 2.31-2.39 GHz:

Full Spectrum

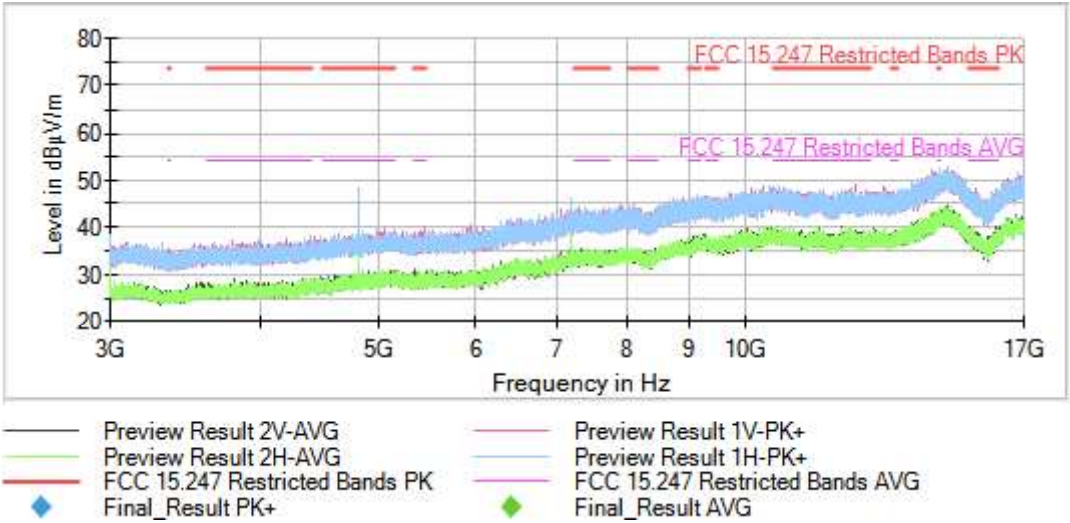


FREQUENCY RANGE 2.4835-2.5 GHz:



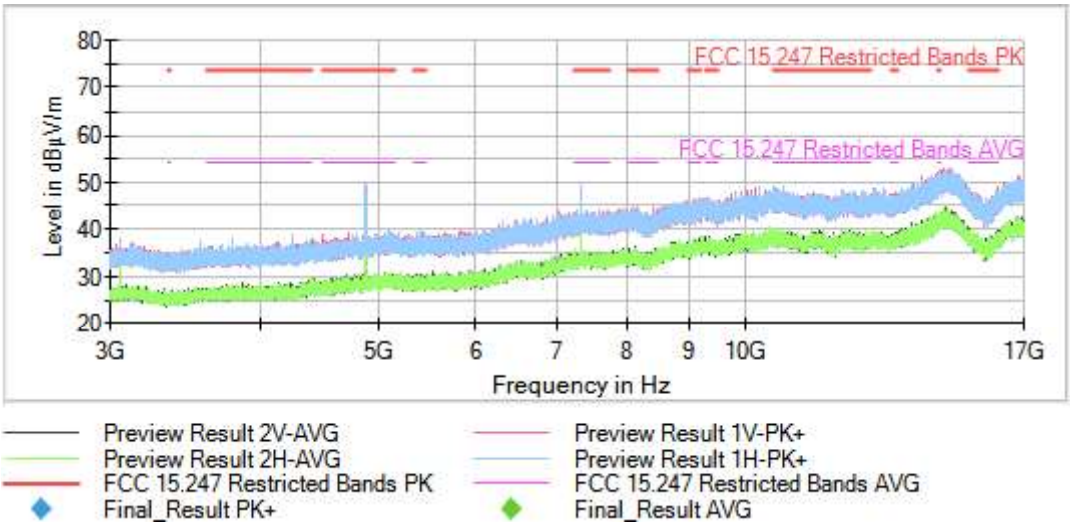
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (GFSK 1-DH5), Frequency Range GHz = [3, 17]

Images:



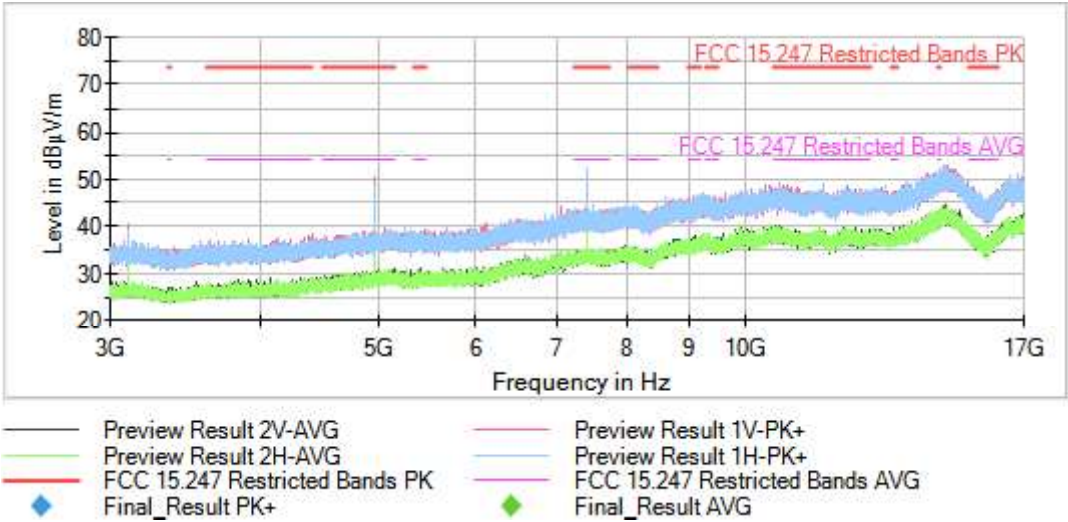
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (GFSK 1-DH5), Frequency Range GHz = [3, 17]

Images:



Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (GFSK 1-DH5), Frequency Range GHz = [3, 17], Number of Transmission Chains = 1,
Measurement Point = 1, Active Port = 1

Images:



Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

No spurious frequencies at less than 20 dB below the limit.

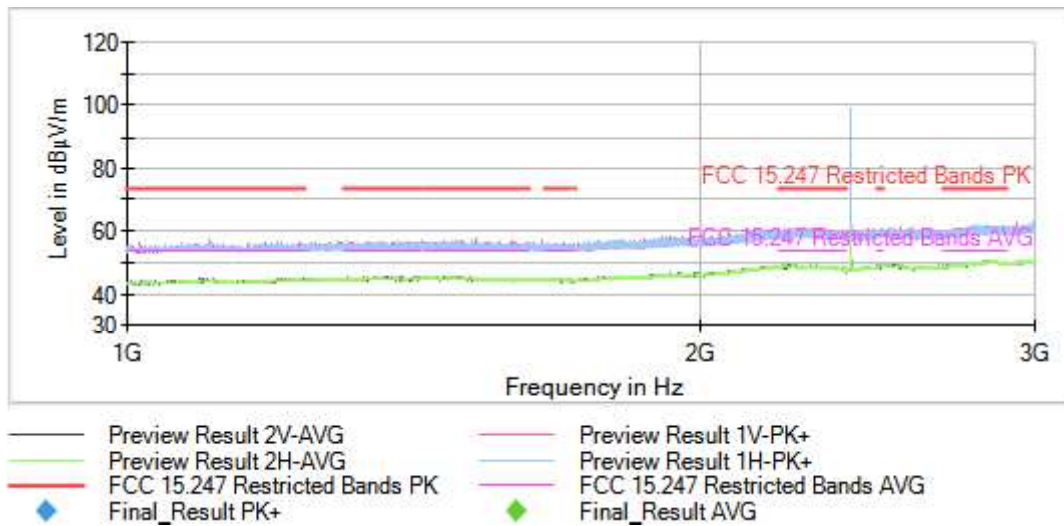
Verdict

Pass

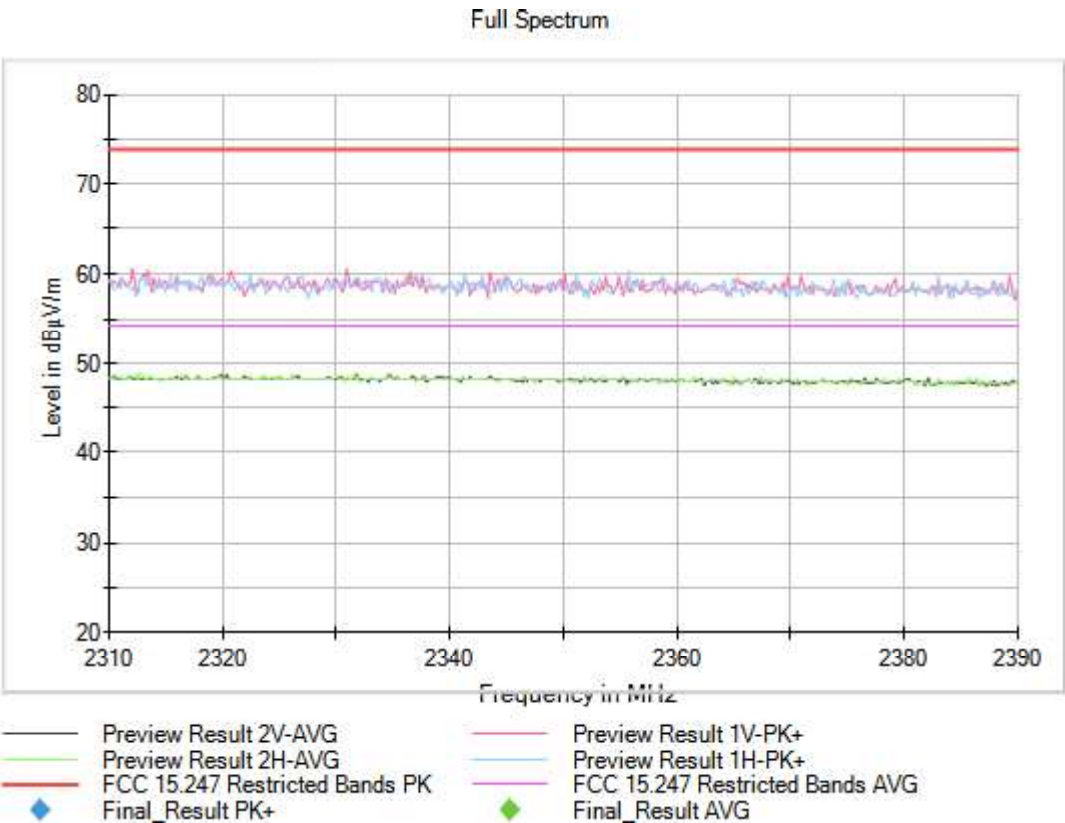
Attachments

Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (Pi/4 DQPSK 2-DH5), Frequency Range GHz = [1, 3]

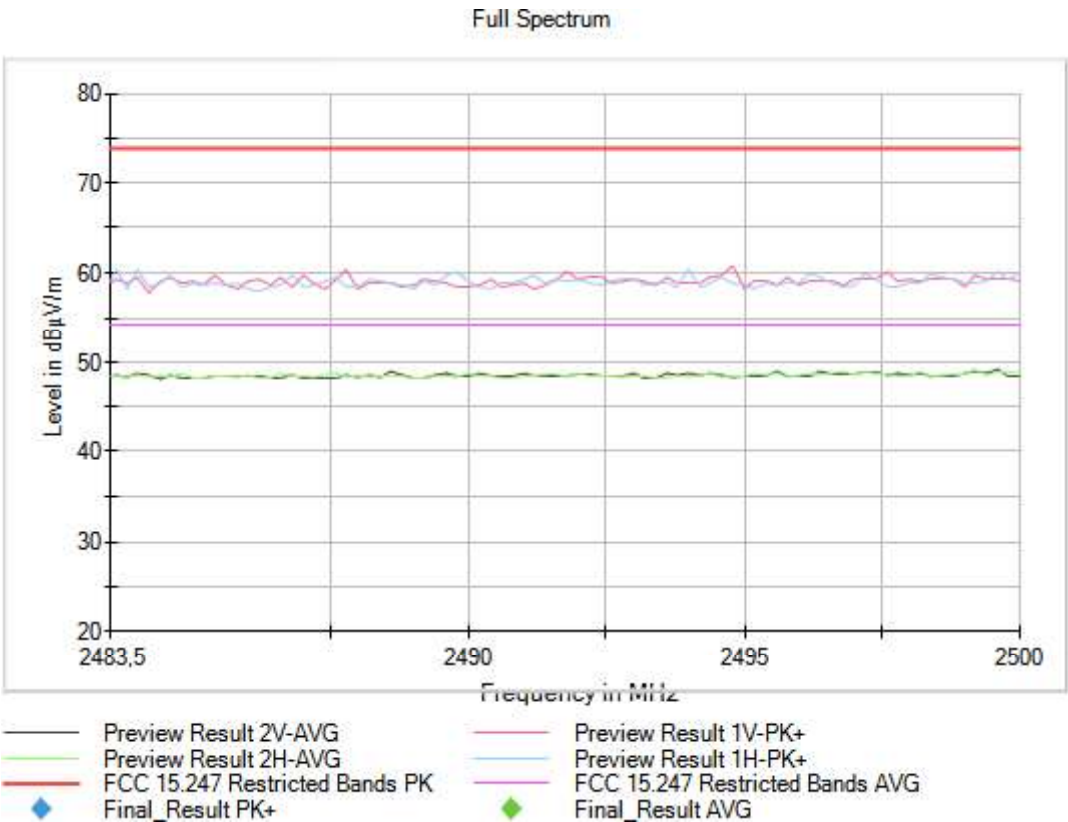
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

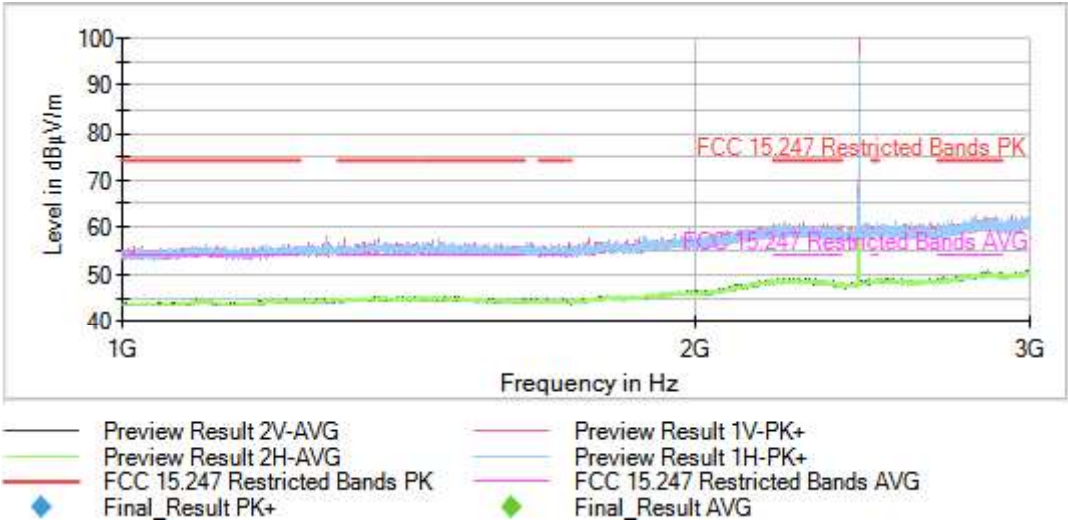


FREQUENCY RANGE 2.4835-2.5 GHz:



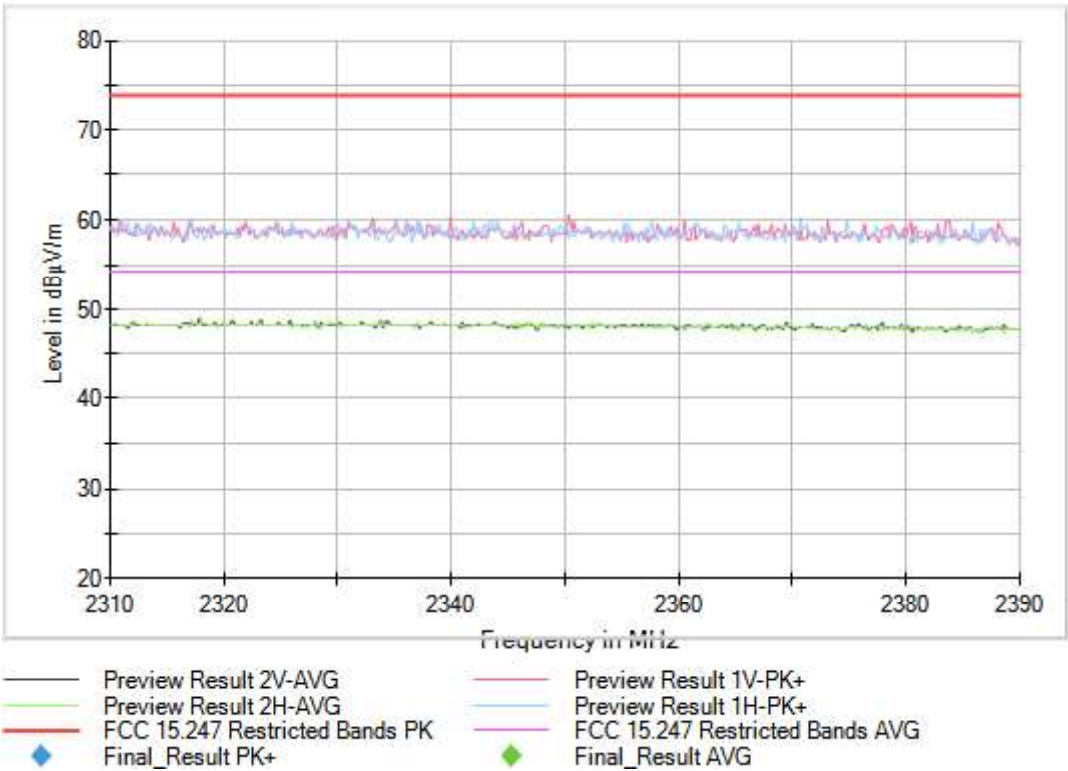
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (Pi/4 DQPSK 2-DH5), Frequency Range GHz = [1, 3]

Images:

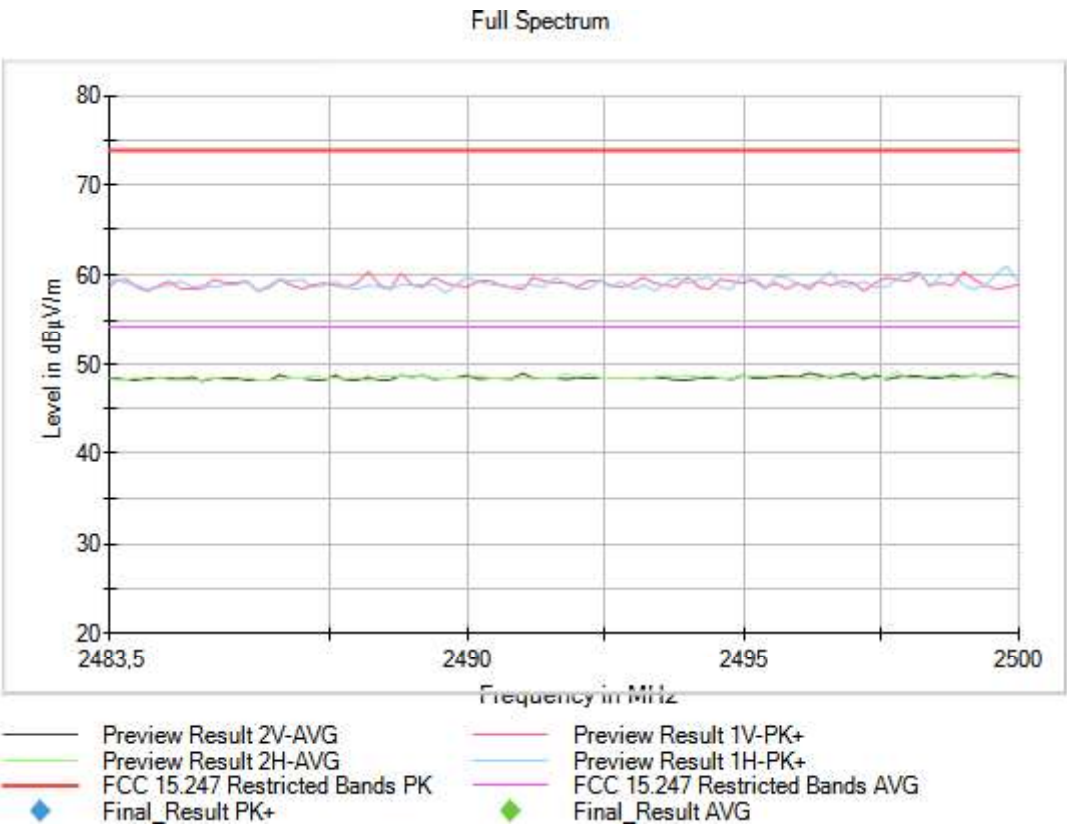


FREQUENCY RANGE 2.31-2.39 GHz:

Full Spectrum

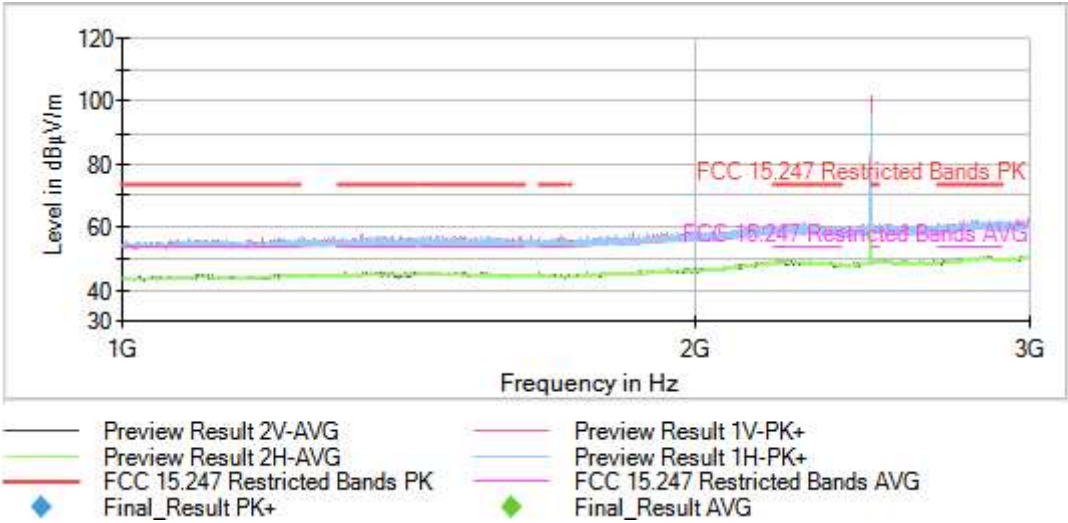


FREQUENCY RANGE 2.4835-2.5 GHz:



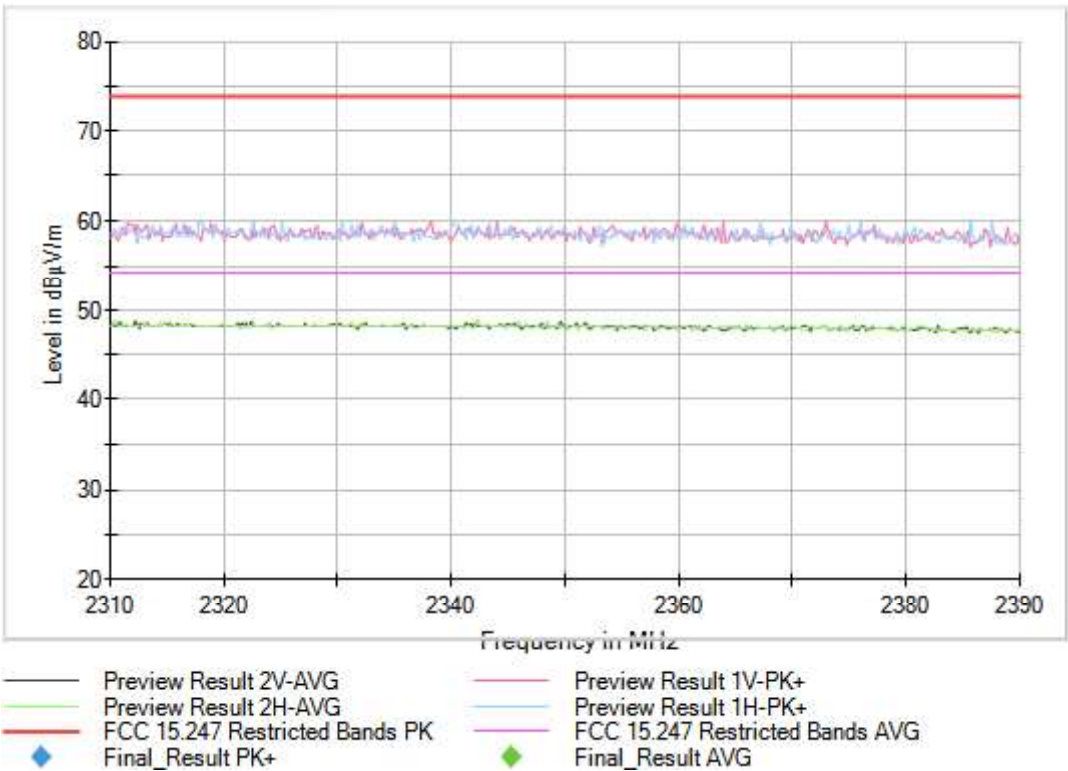
Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (Pi/4 DQPSK 2-DH5), Frequency Range GHz = [1, 3]

Images:

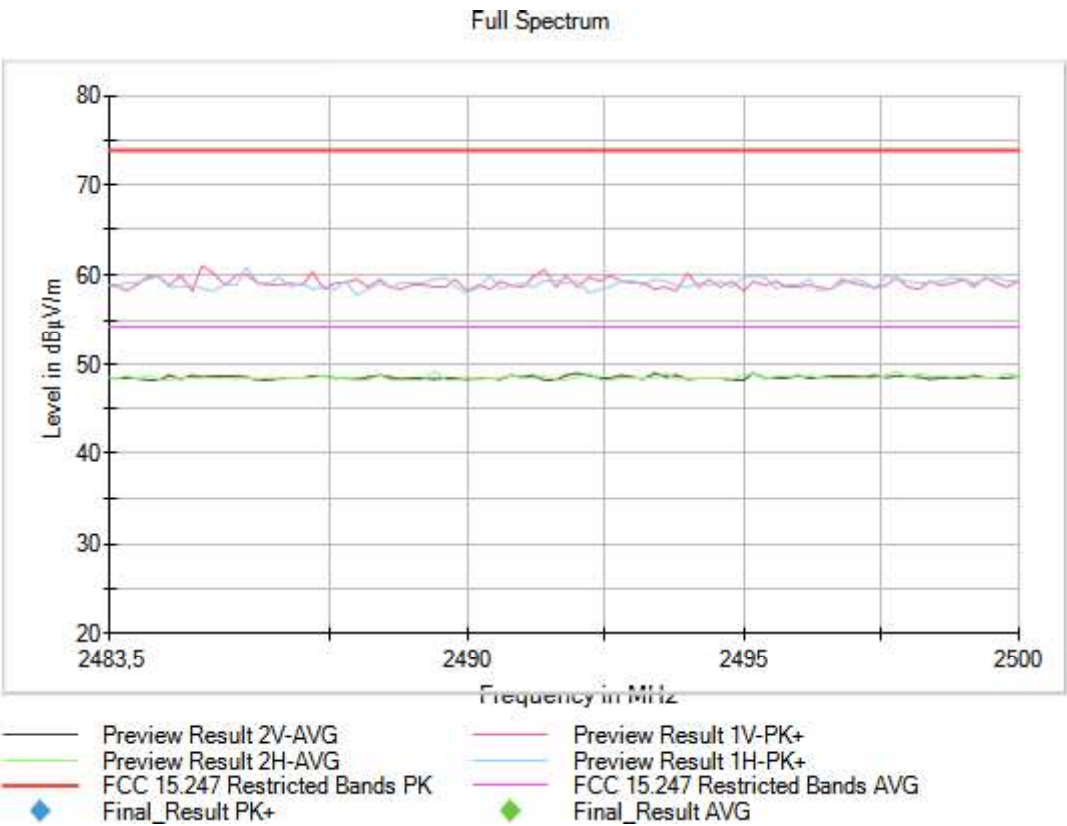


FREQUENCY RANGE 2.31-2.39 GHz:

Full Spectrum

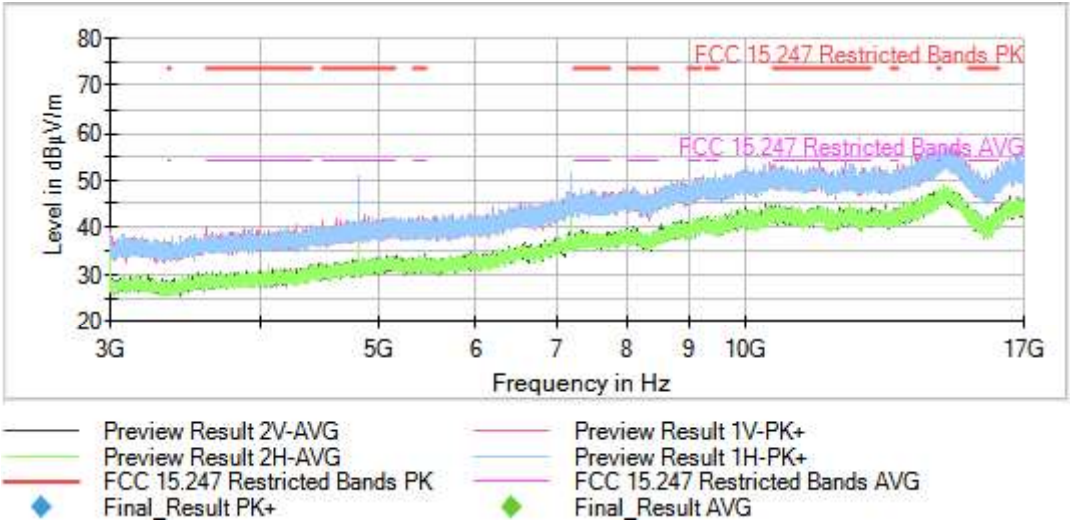


FREQUENCY RANGE 2.4835-2.5 GHz:



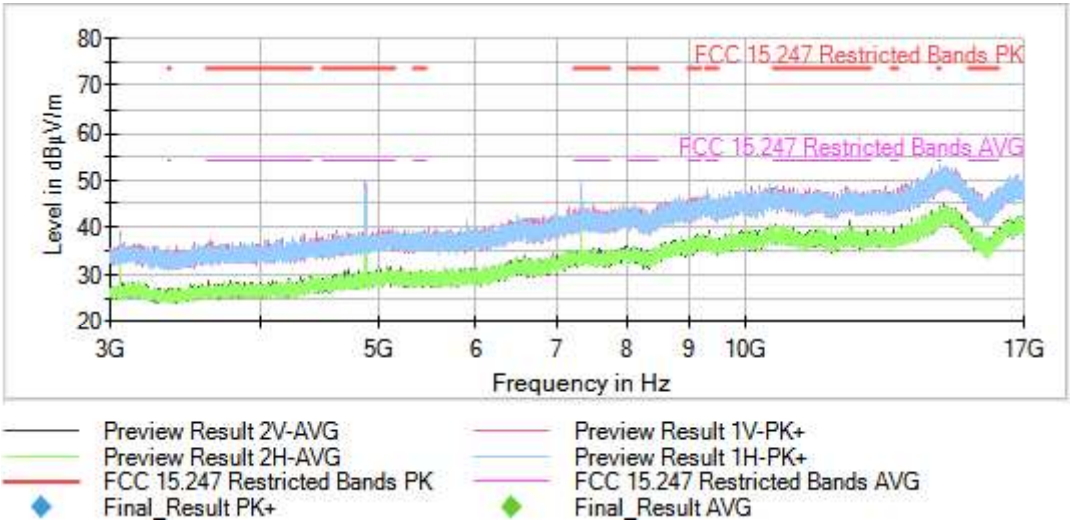
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (Pi/4 DQPSK 2-DH5), Frequency Range GHz = [3, 17]

Images:



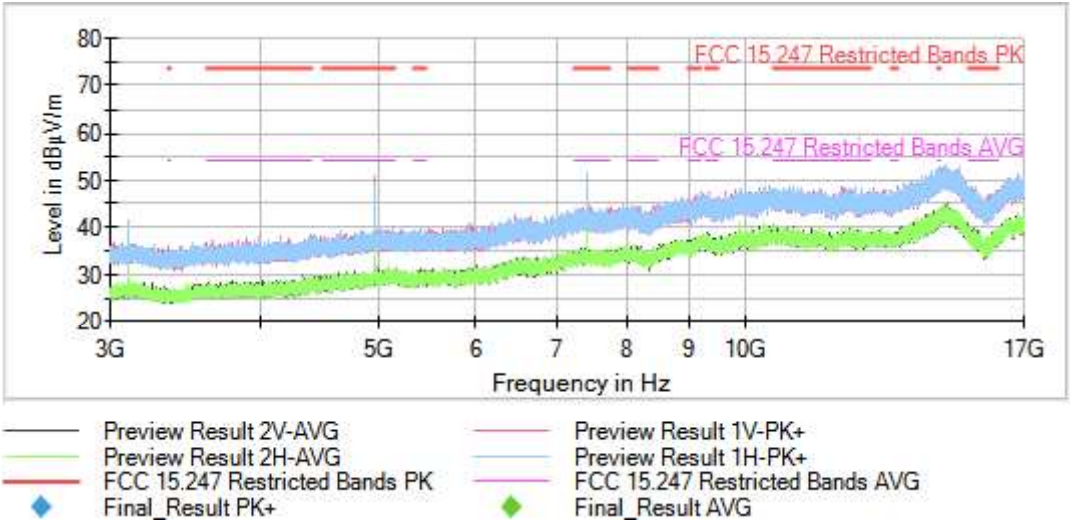
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (Pi/4 DQPSK 2-DH5), Frequency Range GHz = [3, 17]

Images:



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

Images:



Modulation: BT (8DPSK 3-DH5)

Results

No spurious frequencies at less than 20 dB below the limit.

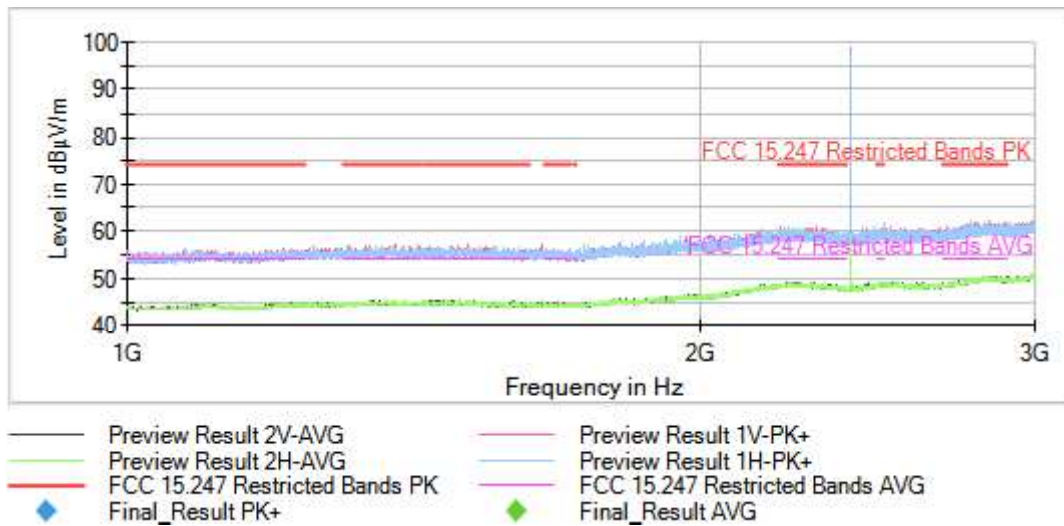
Verdict

Pass

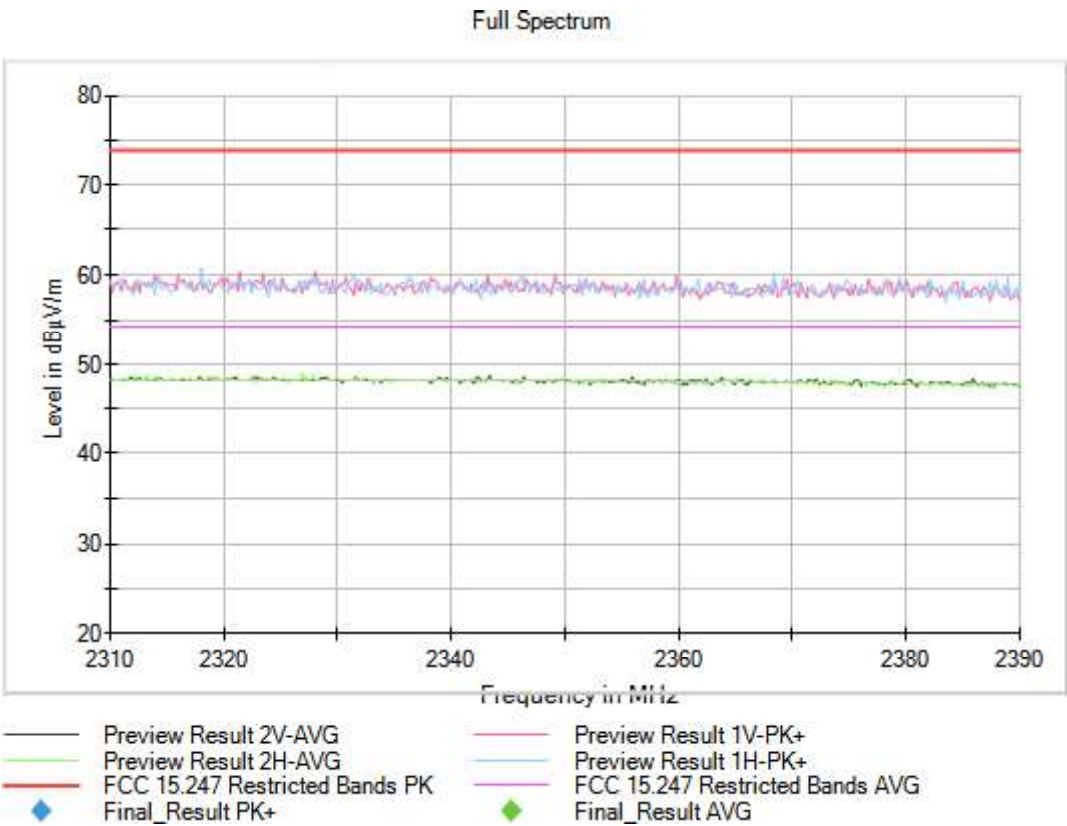
Attachments

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

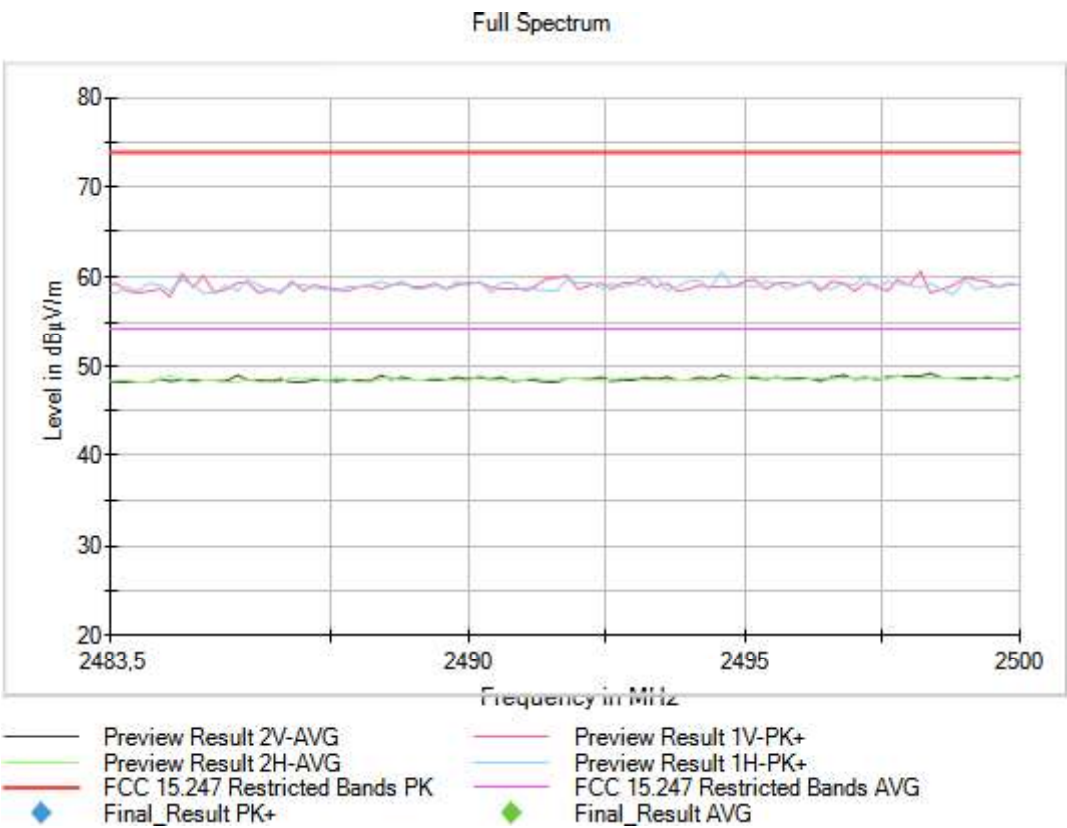
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

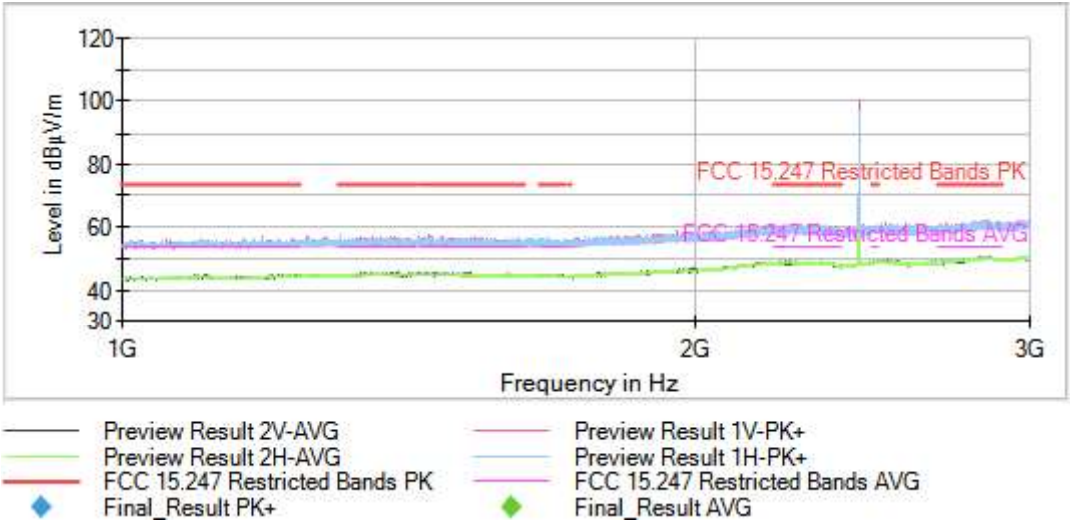


FREQUENCY RANGE 2.4835-2.5 GHz:

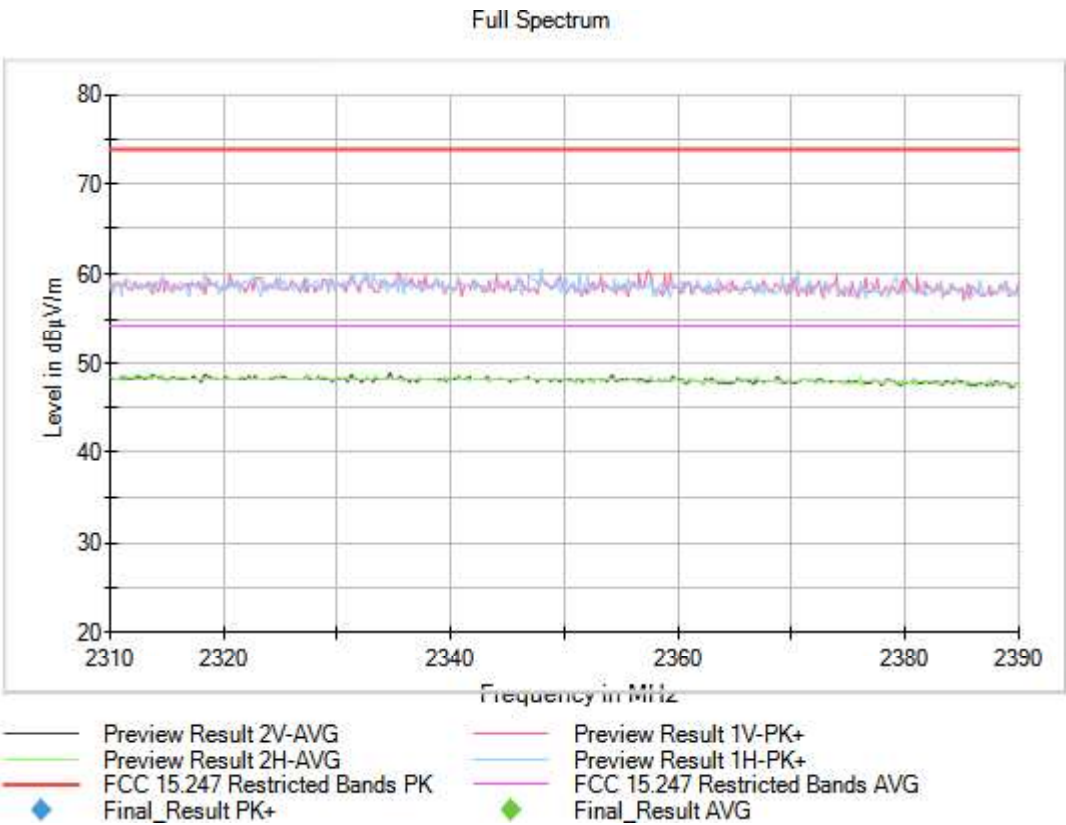


Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Modulation = BT (8DPSK 3-DH5), Frequency Range GHz = [1, 3]

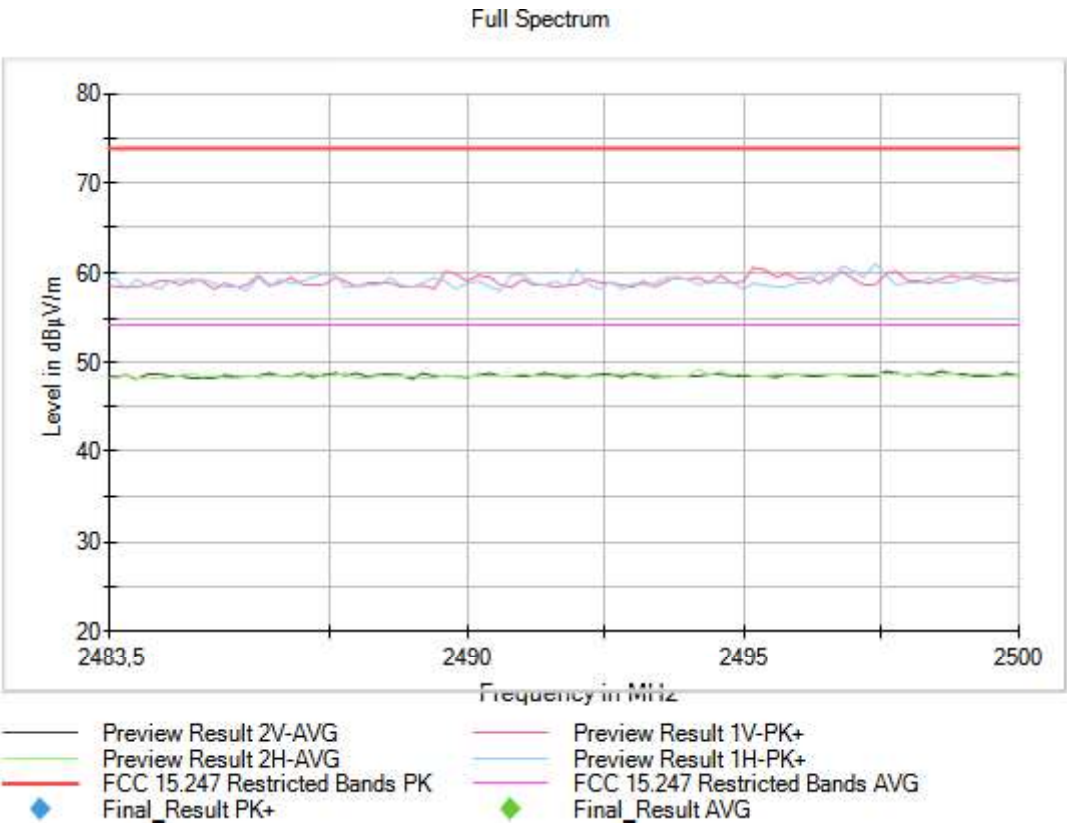
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

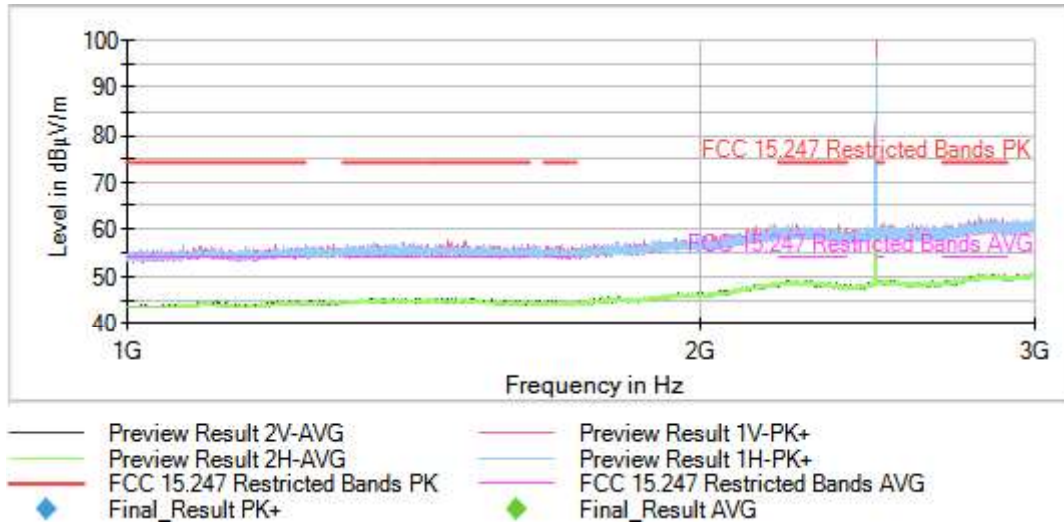


FREQUENCY RANGE 2.4835-2.5 GHz:

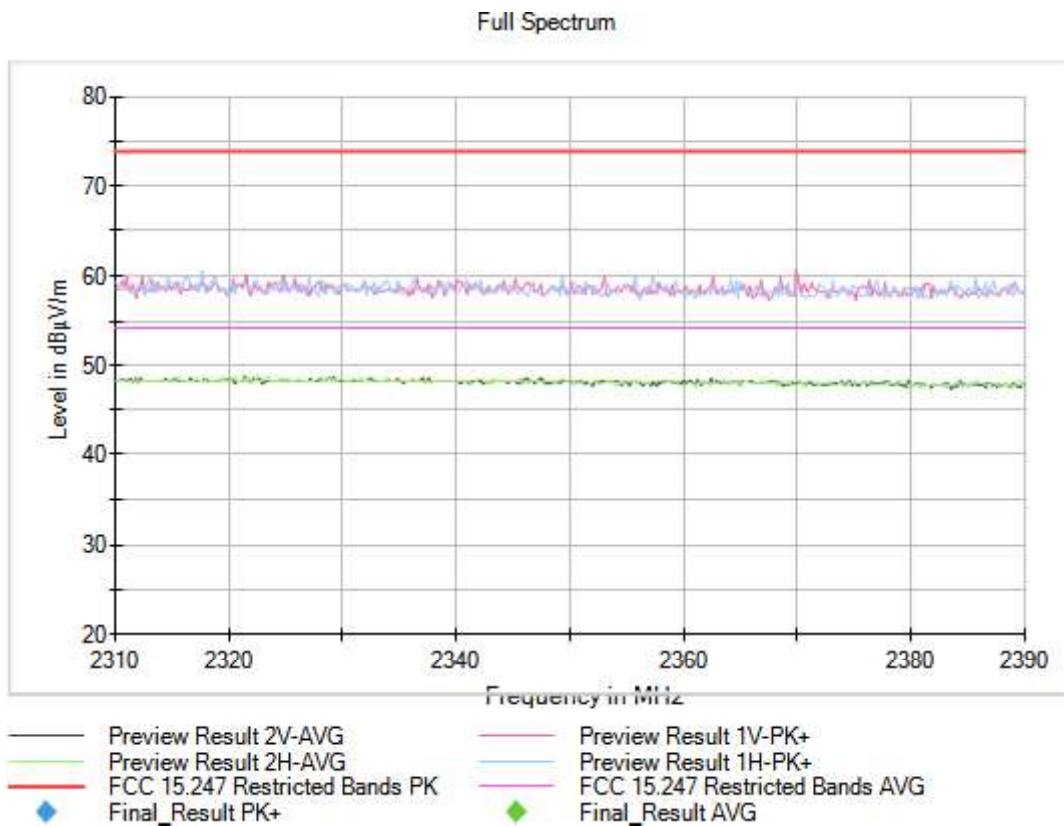


**Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (8DPSK 3-DH5), Frequency Range GHz = [1, 3]**

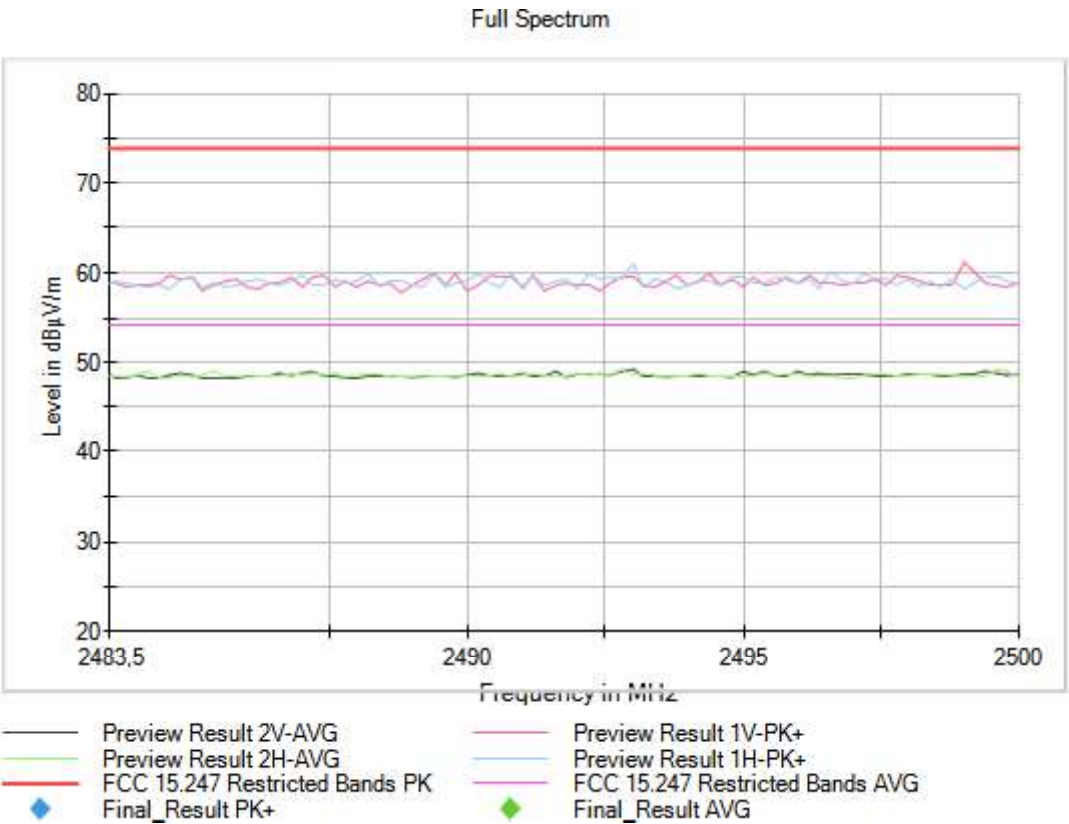
Images:



FREQUENCY RANGE 2.31-2.39 GHz:

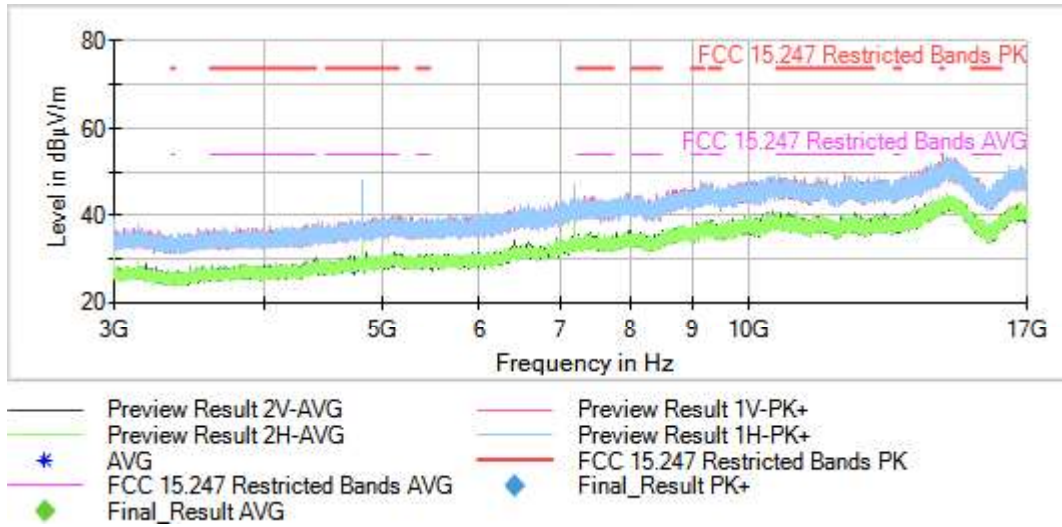


FREQUENCY RANGE 2.4835-2.5 GHz:



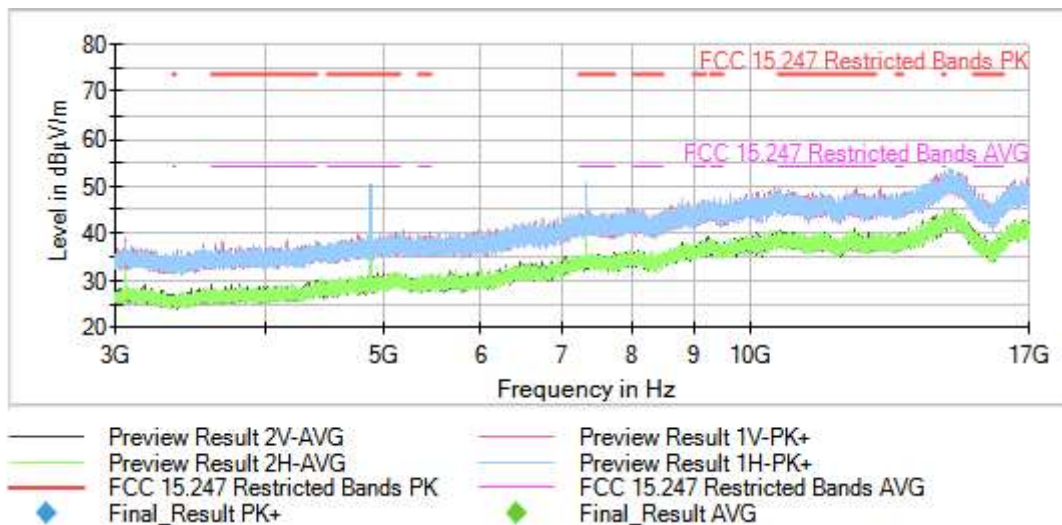
**Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (8DPSK 3-DH5), Frequency Range GHz = [3, 17]**

Images:



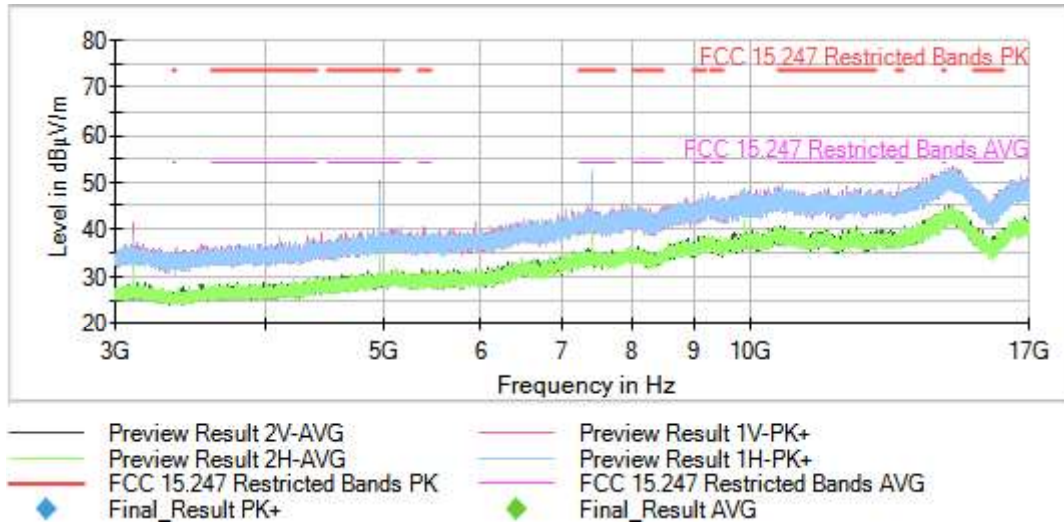
**Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BT (8DPSK 3-DH5), Frequency Range GHz = [3, 17]**

Images:



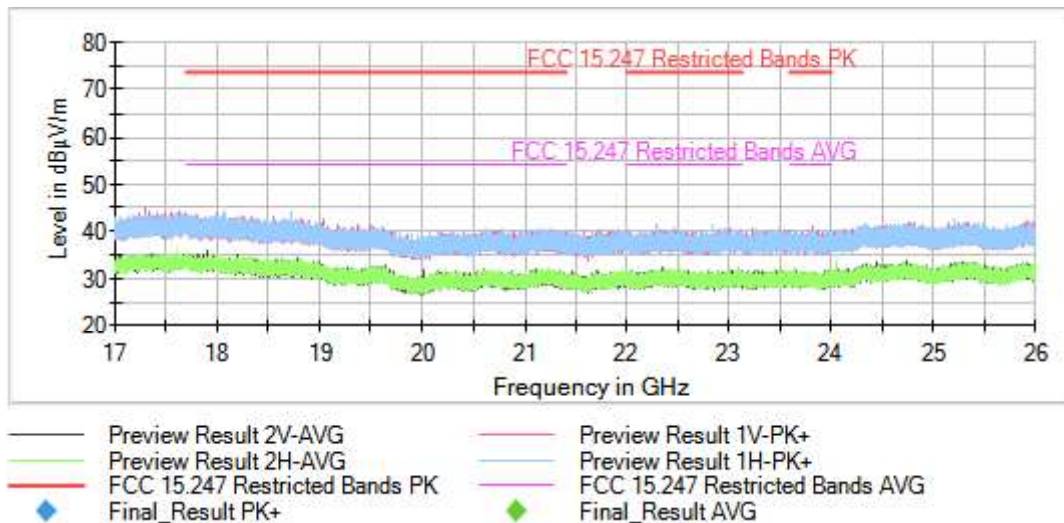
Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Modulation = BT (8DPSK 3-DH5), Frequency Range GHz = [3, 17]

Images:



Frequency MHz = The spurious frequencies detected do not depend neither on the operating channel, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS), Modulation = The spurious frequencies detected do not depend on the modulation, Frequency Range GHz = [17, 26]

Images:



99dBw Occupied Channel Bandwidth 99%

Modulation: BT (GFSK 1-DH5)

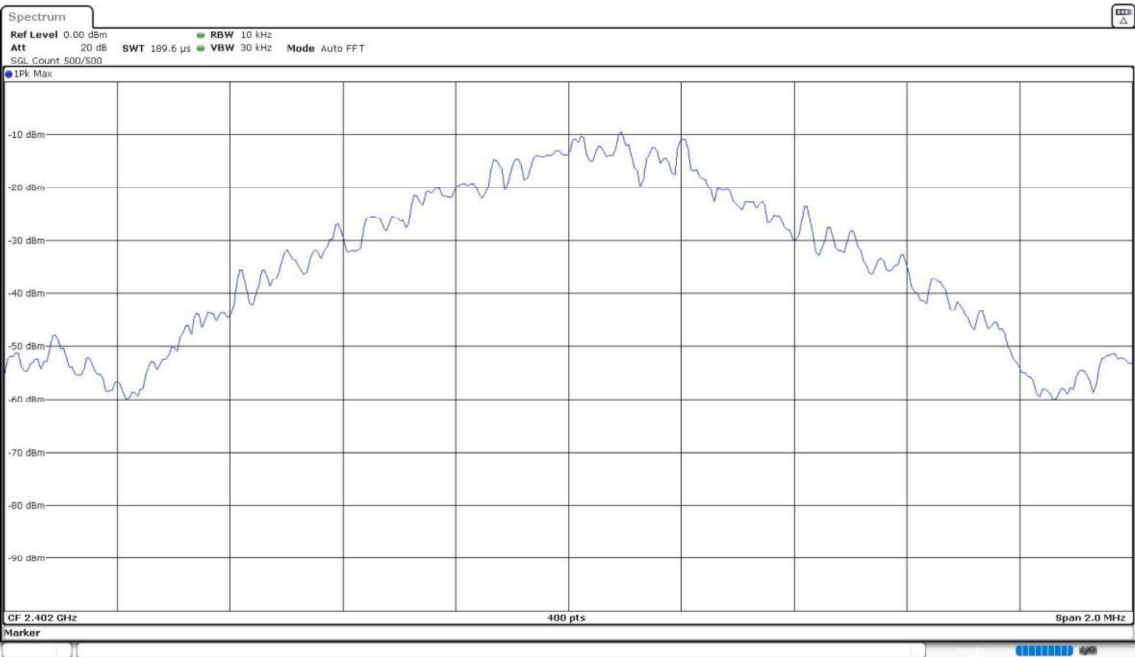
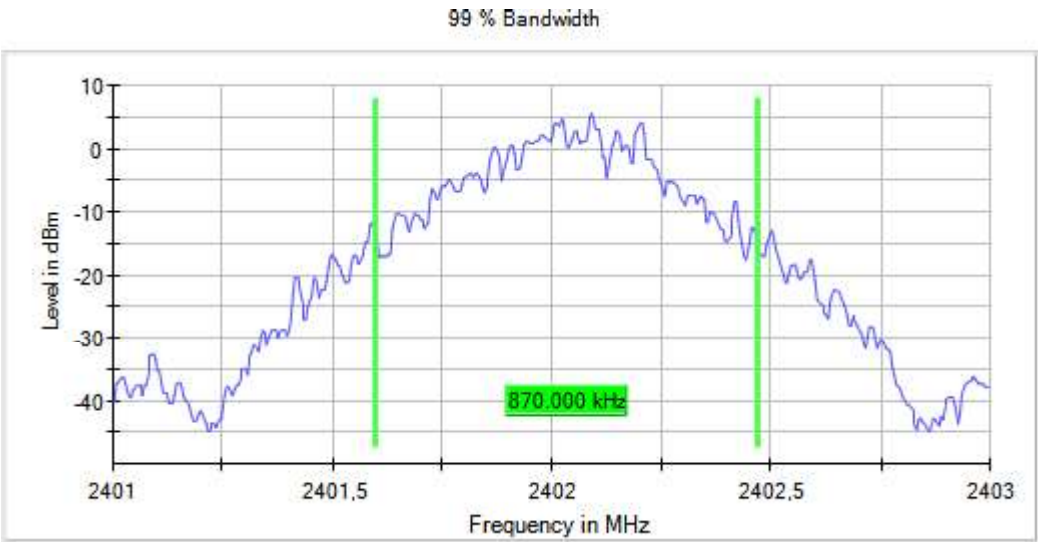
Results

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2402.00000	Frequency Hopping Spread Spectrum systems (DSS)	0.870
2441.00000		0.865
2480.00000		0.860

Attachments

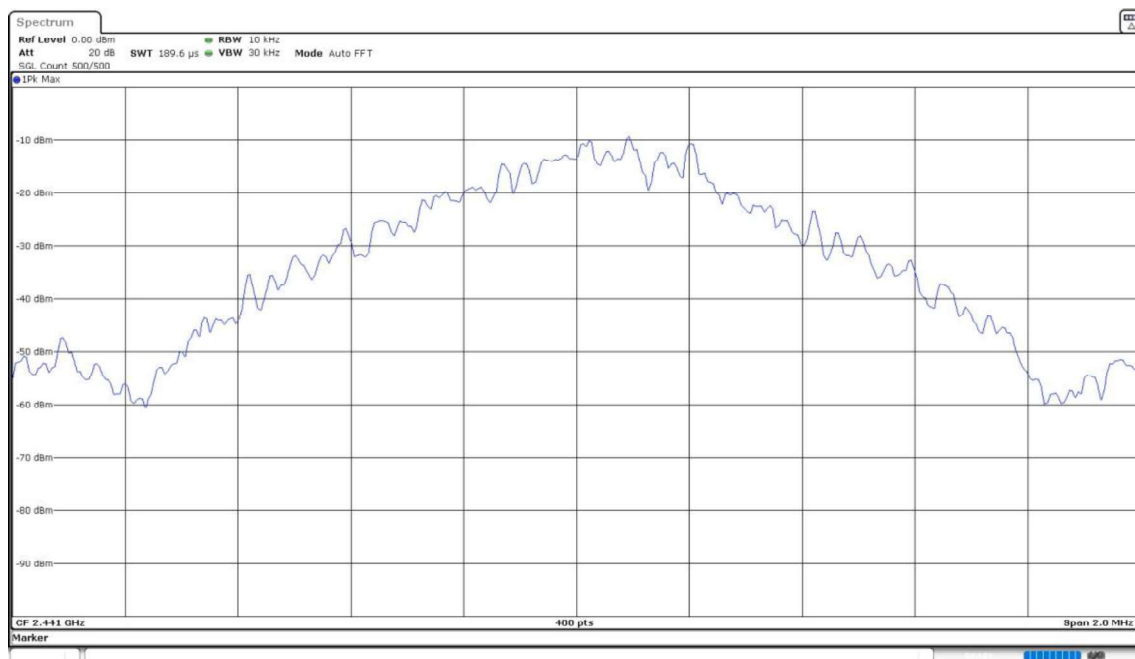
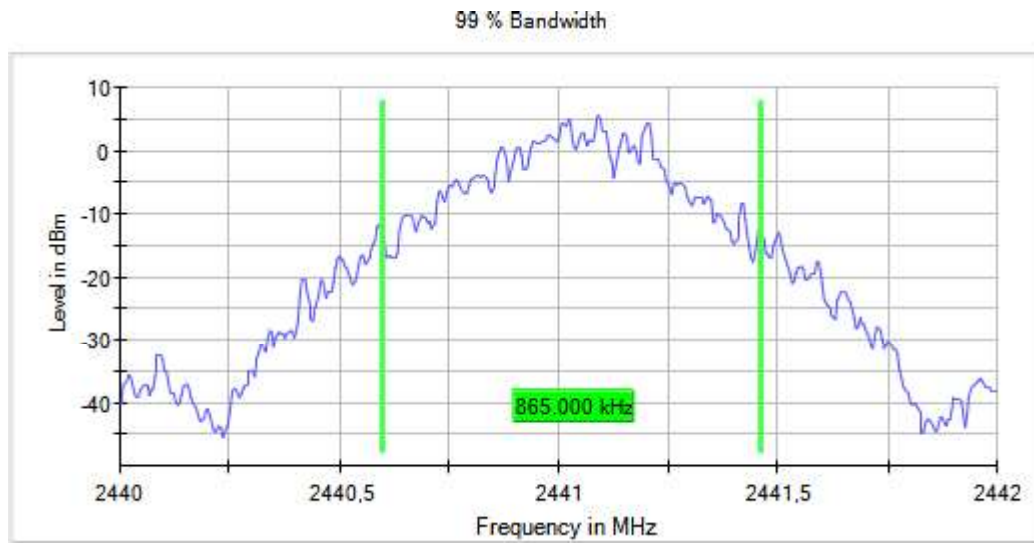
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



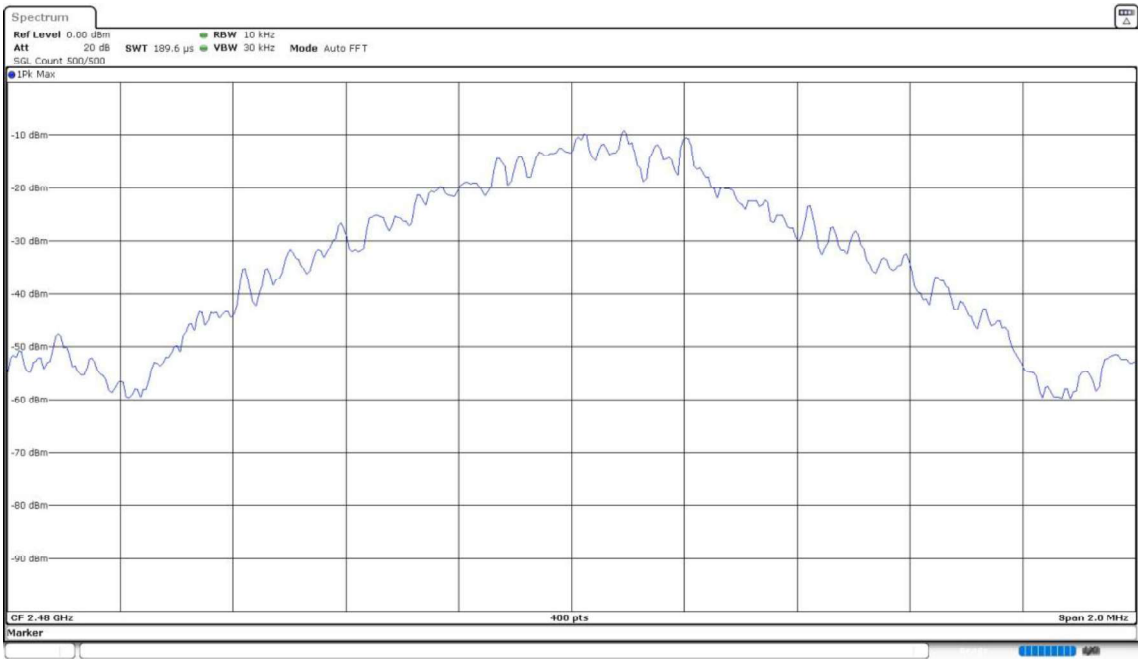
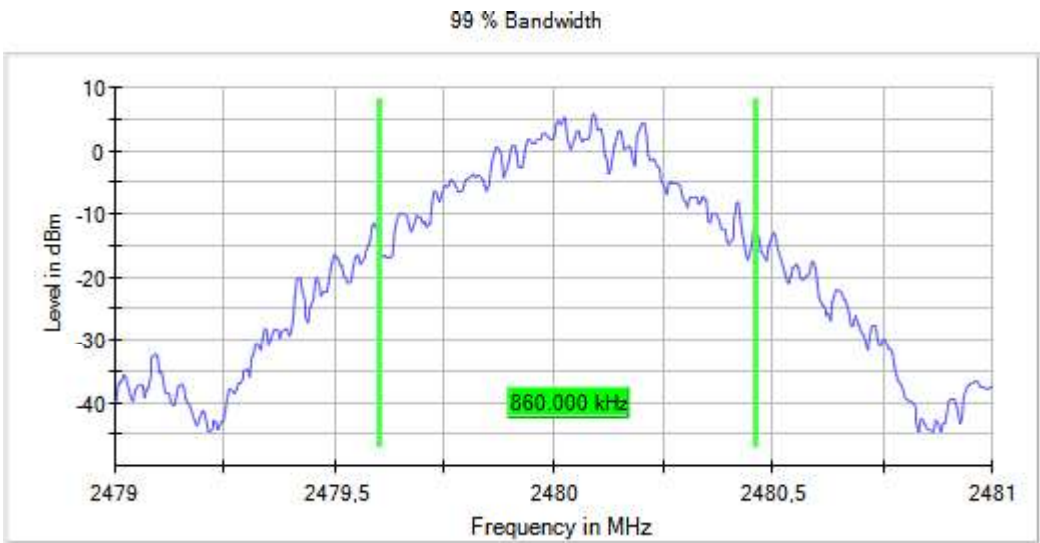
**Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)**

Images:



Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (GFSK 1-DH5)

Images:



Modulation: BT (Pi/4 DQPSK 2-DH5)

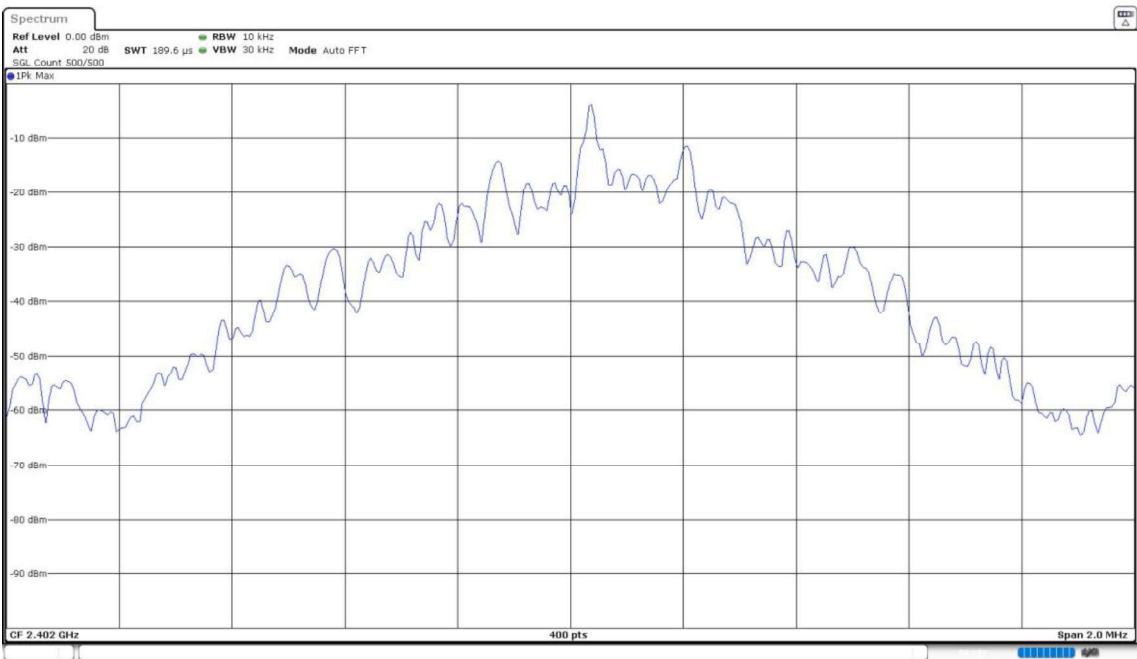
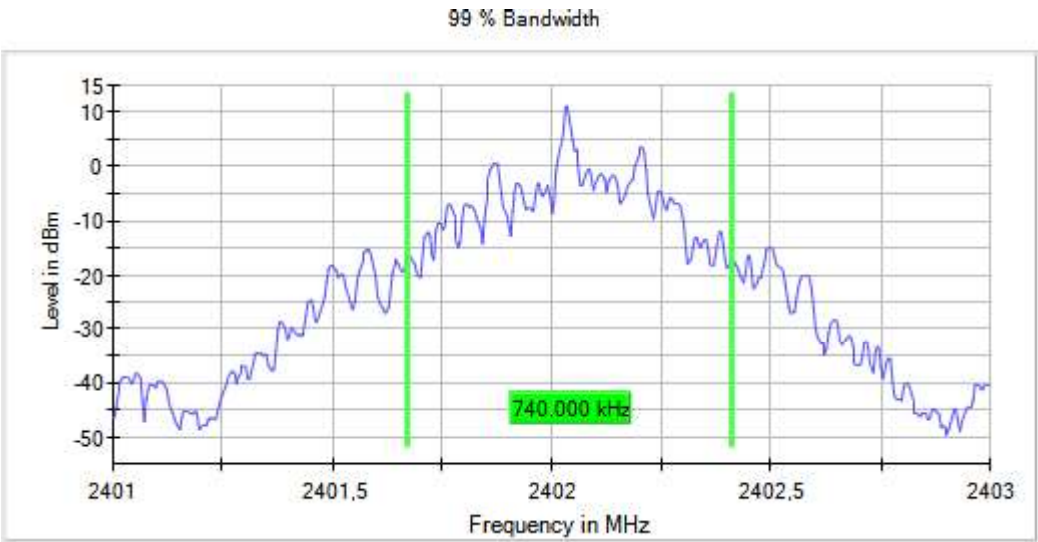
Results

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2402.00000	Frequency Hopping Spread Spectrum systems (DSS)	0.740
2441.00000		0.740
2480.00000		0.730

Attachments

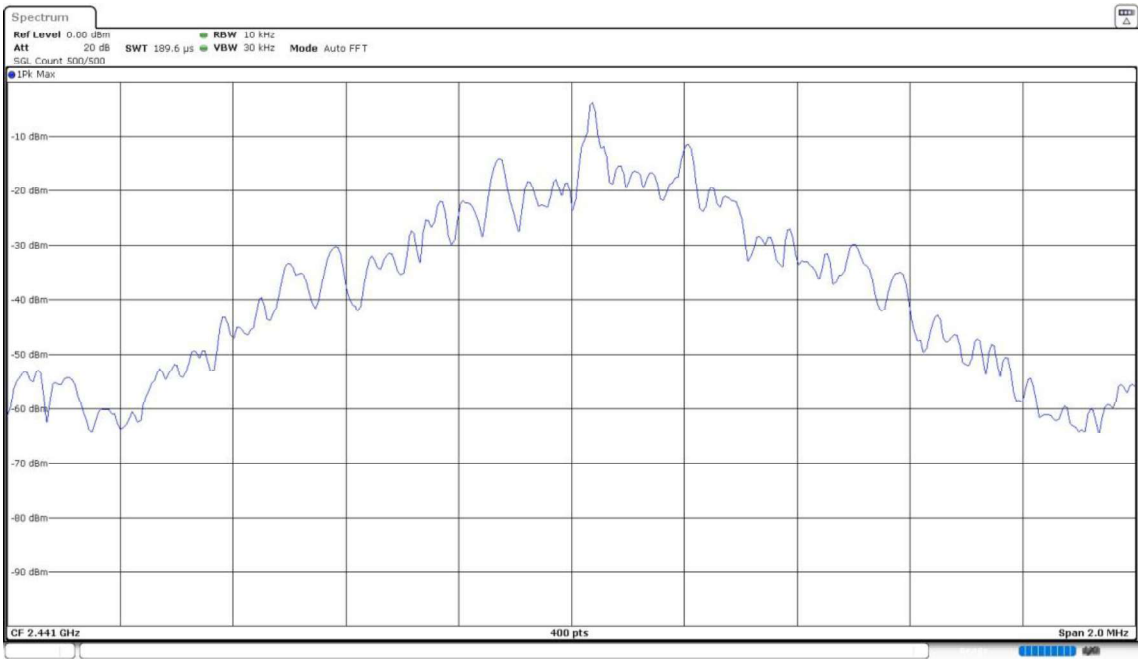
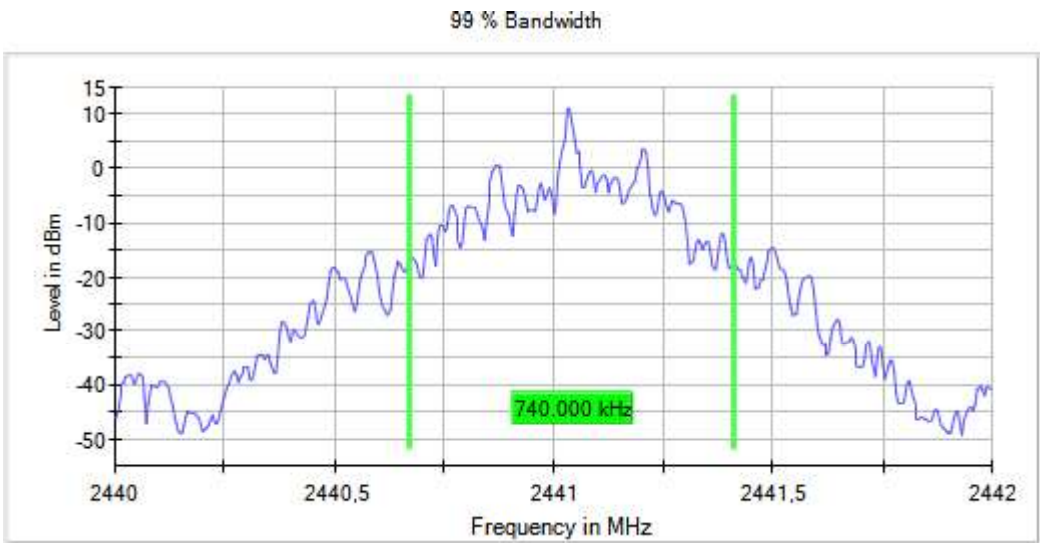
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



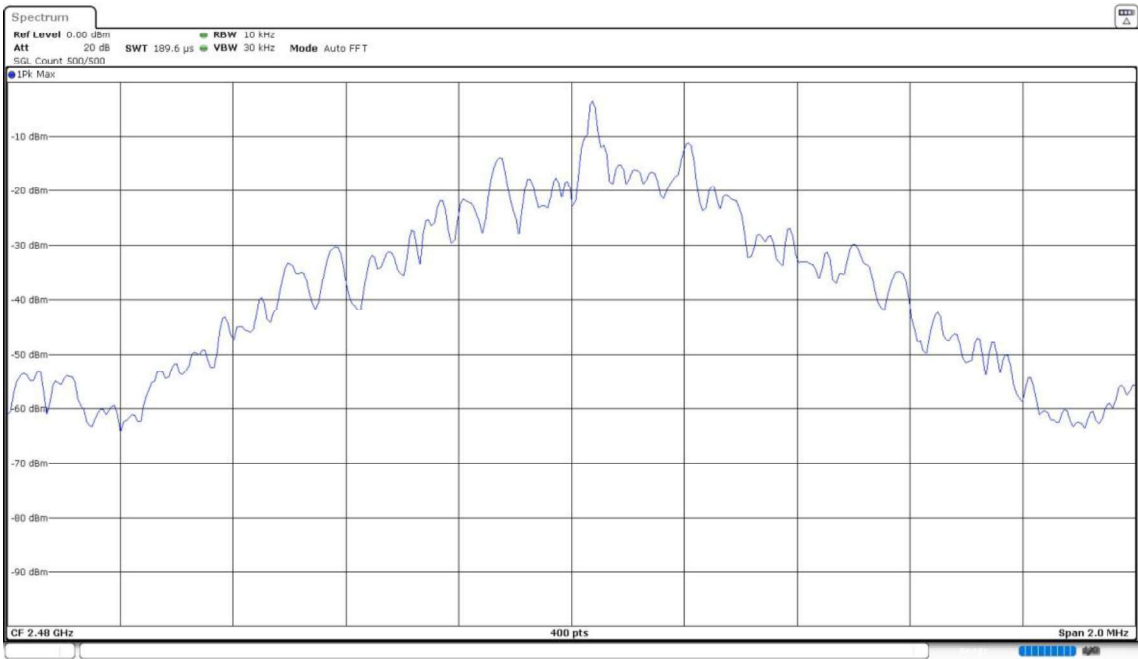
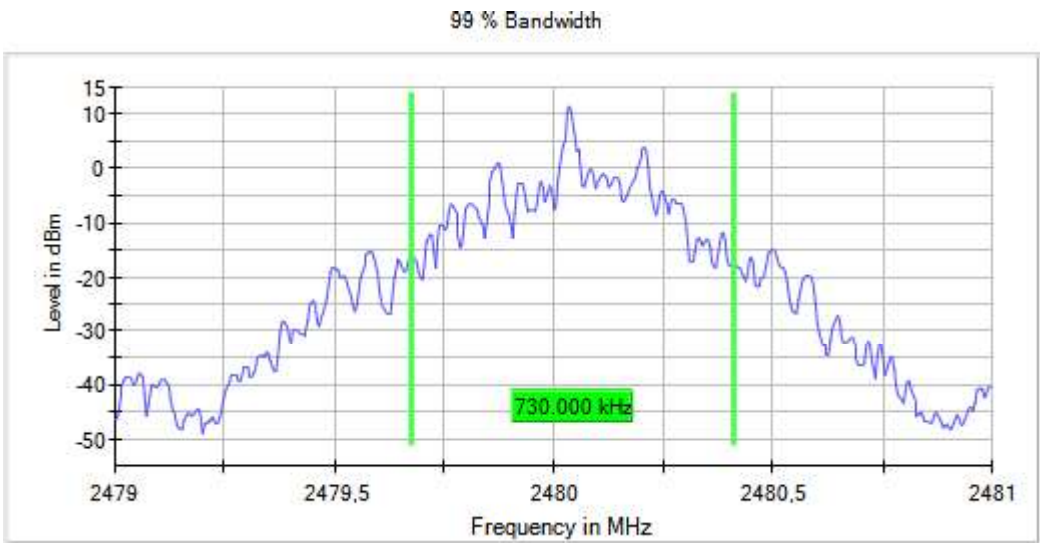
Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Modulation: BT (8DPSK 3-DH5)

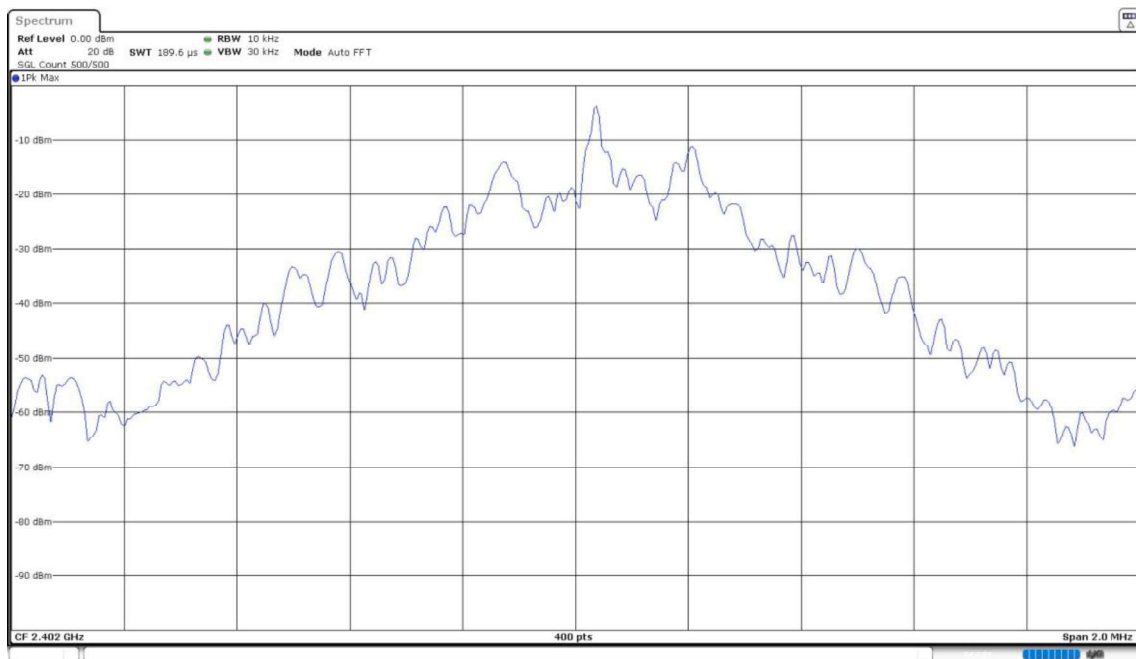
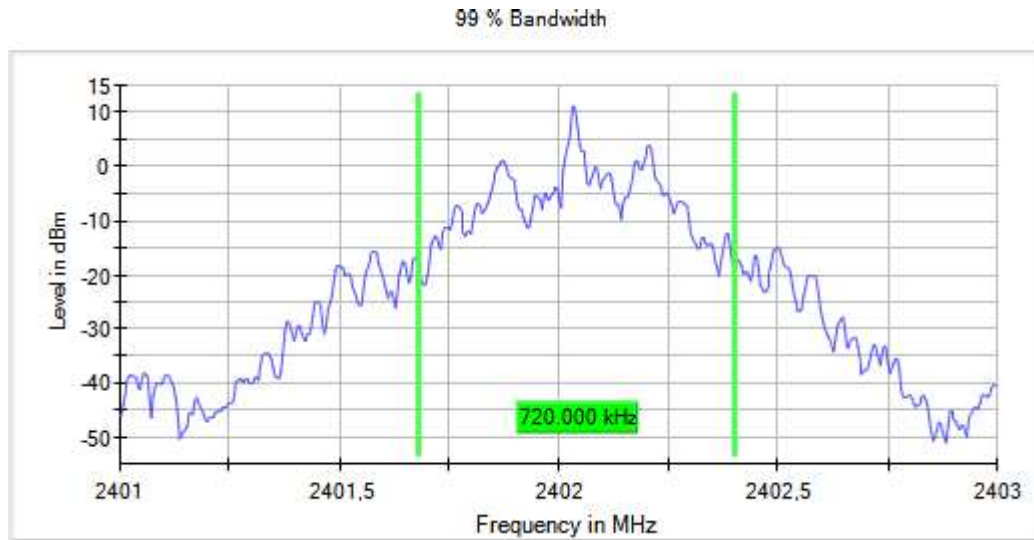
Results

Freq (MHz)	Equipment	Occ Ch BW (MHz)
2402.00000	Frequency Hopping Spread Spectrum systems (DSS)	0.720
2441.00000		0.715
2480.00000		0.710

Attachments

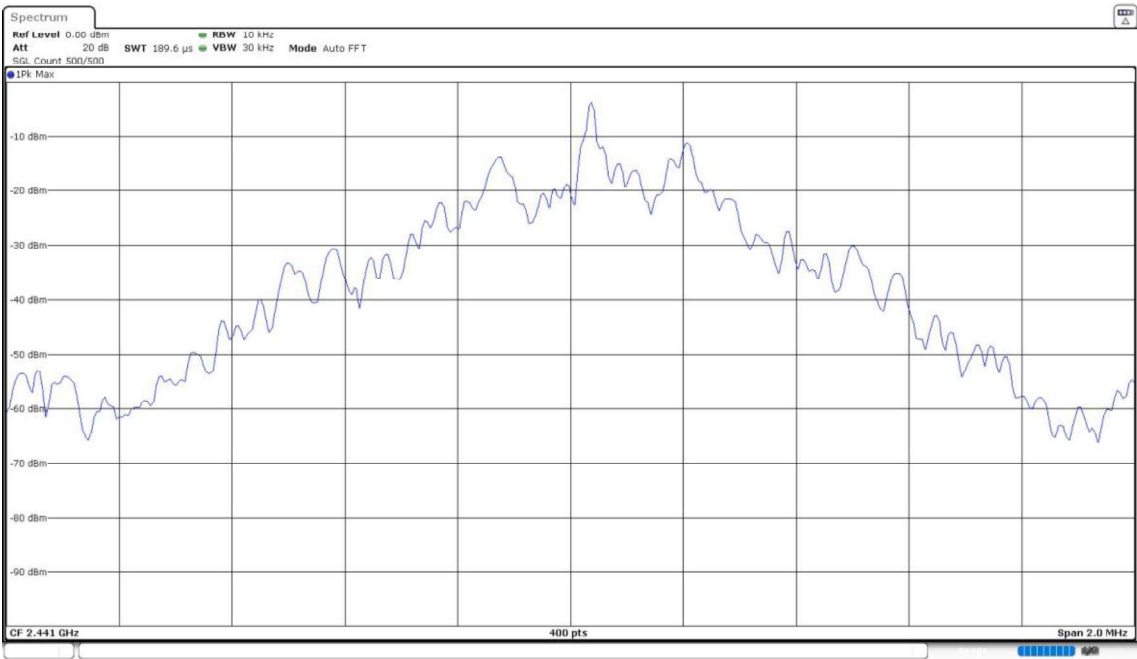
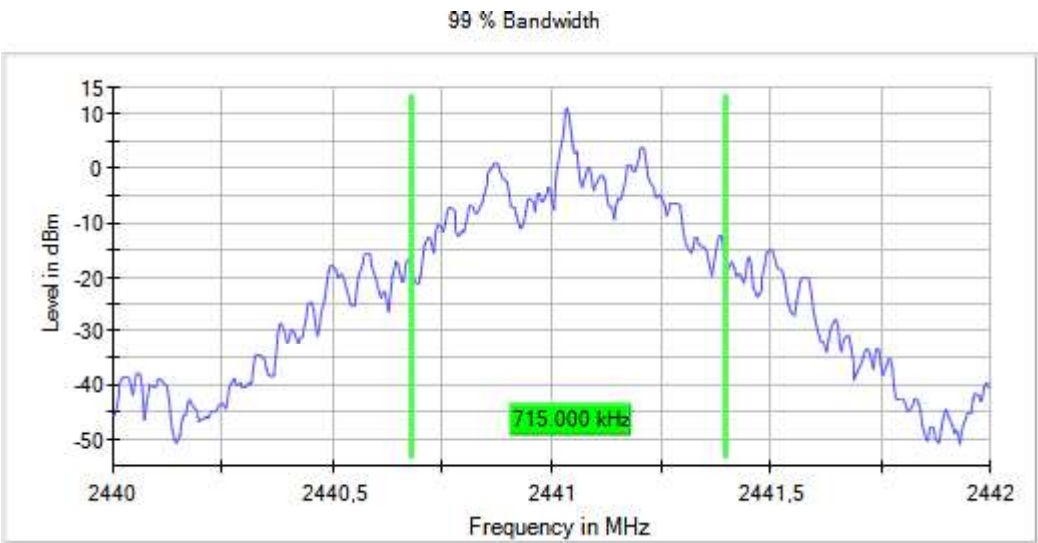
Frequency MHz = 2402.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



Frequency MHz = 2441.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:



Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
Bandwidth MHz = 1, Modulation = BT (8DPSK 3-DH5)

Images:

