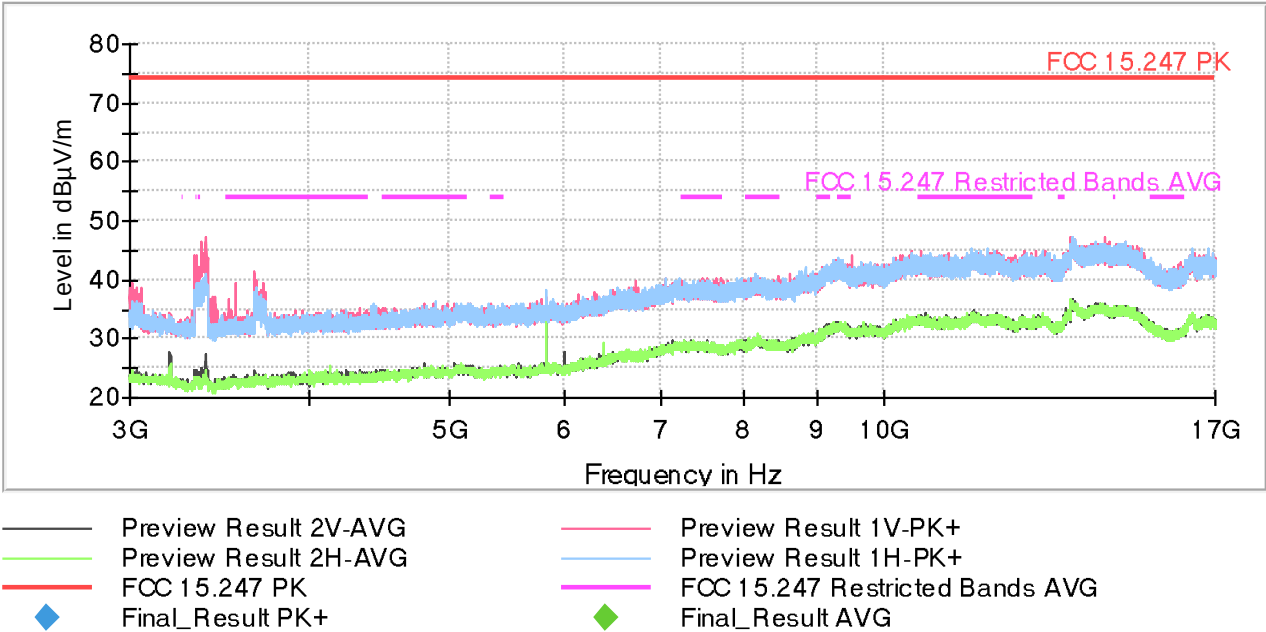
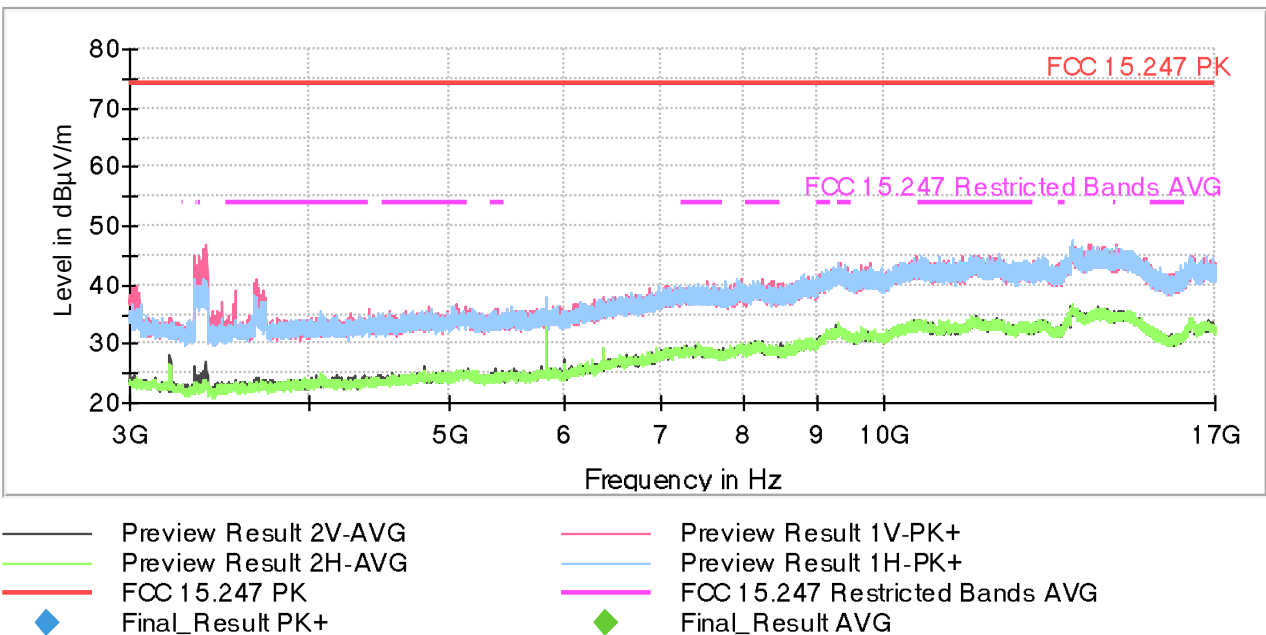


Frequency Range GHz = [3, 17]      Equipment Type = Digital Transmission System (DTS)  
Modulation = 802.11n HT40 (OFDM MCS0)      Frequency MHz = 2422.00000  
MIMO Mode = SISO      Active Port = 1

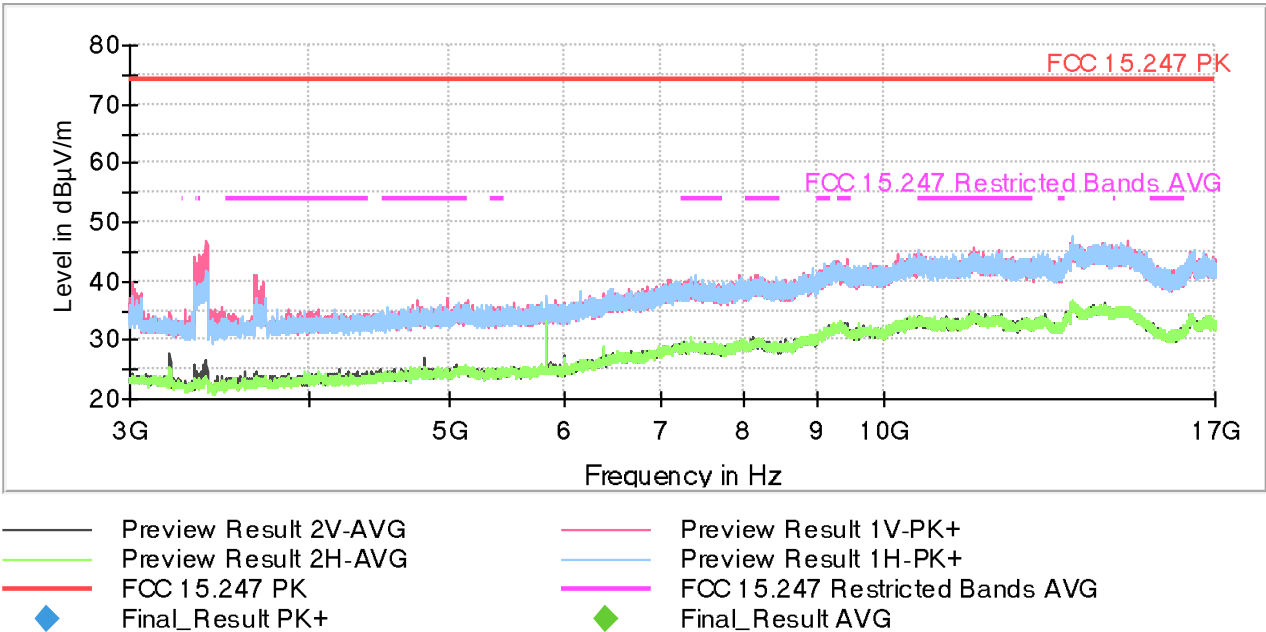
Images:



Frequency Range GHz = [3, 17]      Equipment Type = Digital Transmission System (DTS)  
Modulation = 802.11n HT40 (OFDM MCS0)      Frequency MHz = 2437.00000  
MIMO Mode = SISO      Active Port = 1

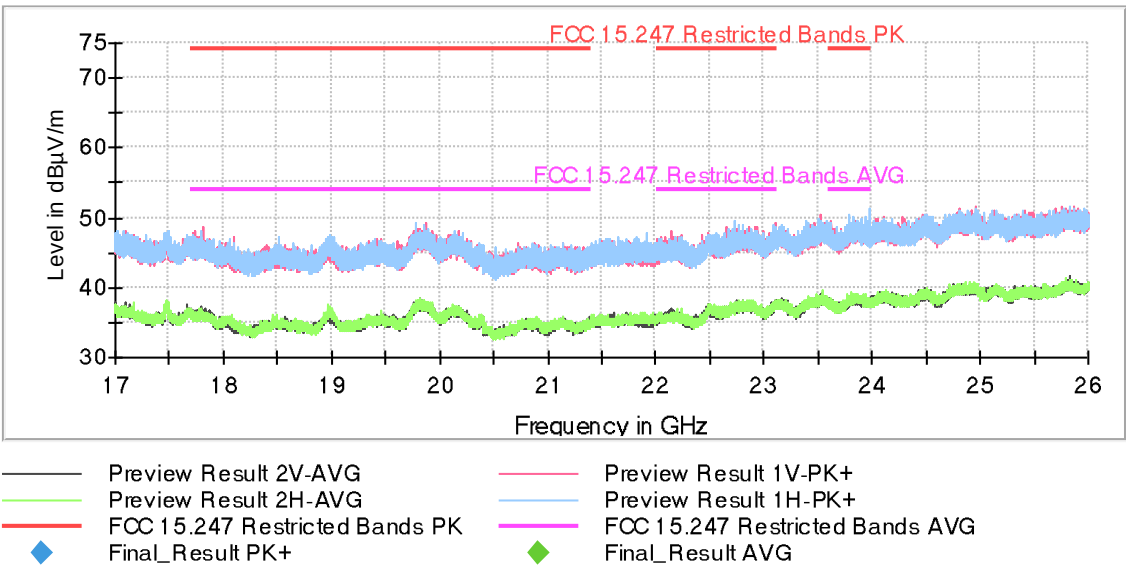


Frequency Range GHz = [3, 17]      Equipment Type = Digital Transmission System (DTS)  
Modulation = 802.11n HT40 (OFDM MCS0)      Frequency MHz = 2452.00000  
MIMO Mode = SISO      Active Port = 1



Frequency Range GHz = [17, 26]      Equipment Type = Digital Transmission System (DTS)  
Modulation = 802.11n40 (DSSS 1 Mbit/s)      Frequency MHz = This plot is valid for all channel  
MIMO Mode = SISO      Active Port = 1

Images:



## Appendix B: Test results. Bluetooth EDR

|                                                                                                  |     |
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# TEST CONDITIONS

(\*): Data provided by the client.

POWER SUPPLY (\*):

Vnominal: 12V DC  
Type of Power Supply: External power supply

ANTENNA (\*):

Type of Antenna: Internal  
Maximum Declared Antenna Gain: +1.91 dBi

TEST FREQUENCIES (\*):

| Modulation       | Data rates | Low Channel: | Middle Channel | High Channel |
|------------------|------------|--------------|----------------|--------------|
| BTEDR GFSK       | 1-DH5      | 2402 MHz     | 2441 MHz       | 2480 MHz     |
| BTEDR PI/4 DQPSK | 2-DH5      | 2402 MHz     | 2441 MHz       | 2480 MHz     |
| BTEDR 8DPSK      | 3-DH5      | 2402 MHz     | 2441 MHz       | 2480 MHz     |

During transmitter test the EUT was controlled by a SW tool provided by the client to operate in a continuous transmit mode on the modulation schemes and test channels as required.

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) 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).

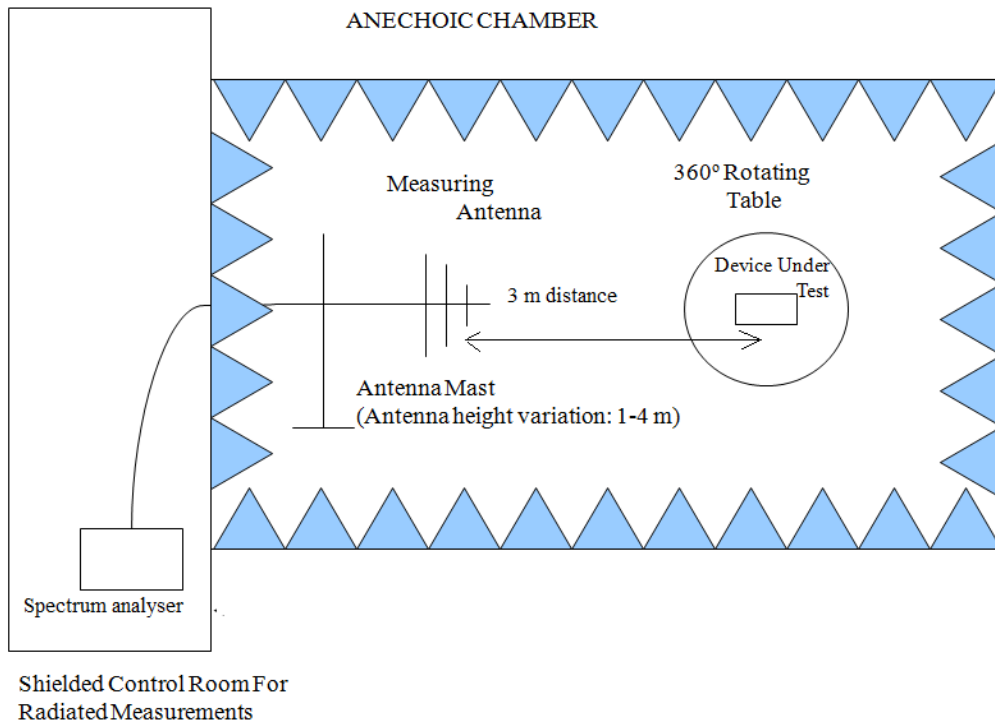
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was 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.

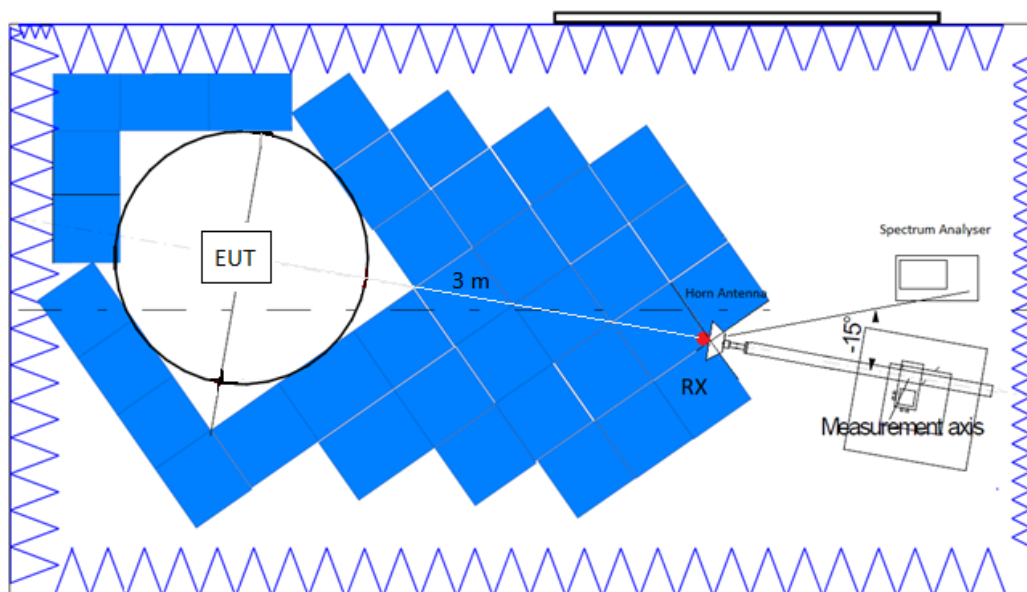
Measurements were made in both horizontal and vertical planes of polarization.

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.

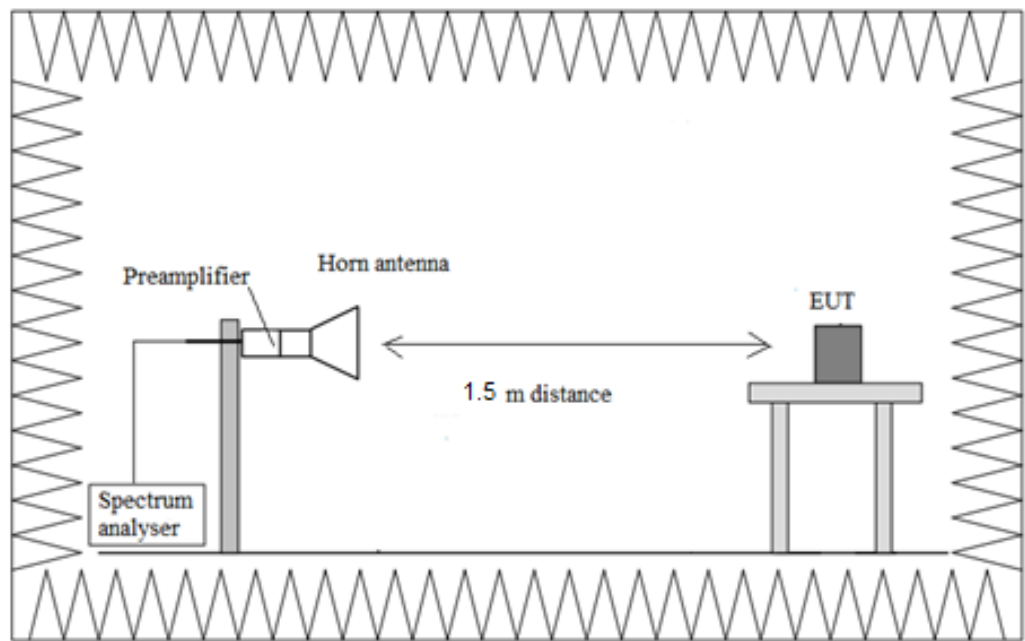
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup  $f > 17\text{ GHz}$ :



TEST CASES DETAILS

99dBw Occupied Channel Bandwidth 99%

Limits

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Occ Ch BW (MHz) |
|-------------------------------------------------|----------|------------|------|-----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 0.860           |
|                                                 |          | 2441.00000 |      | 0.855           |
|                                                 |          | 2480.00000 |      | 0.860           |

Verdict

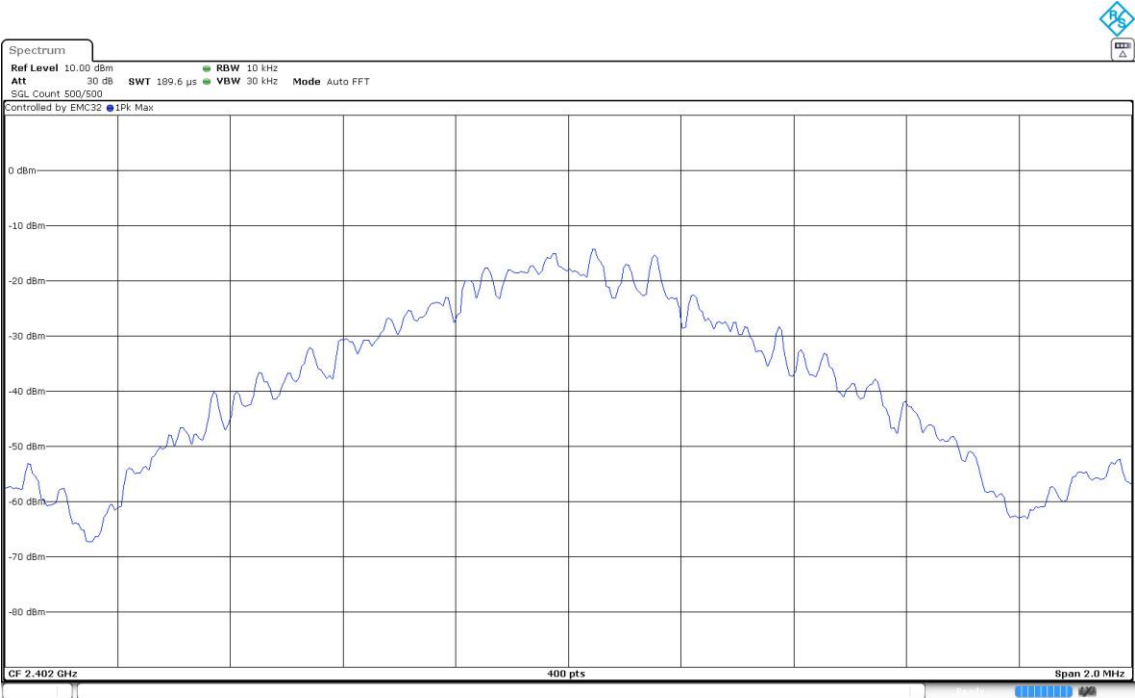
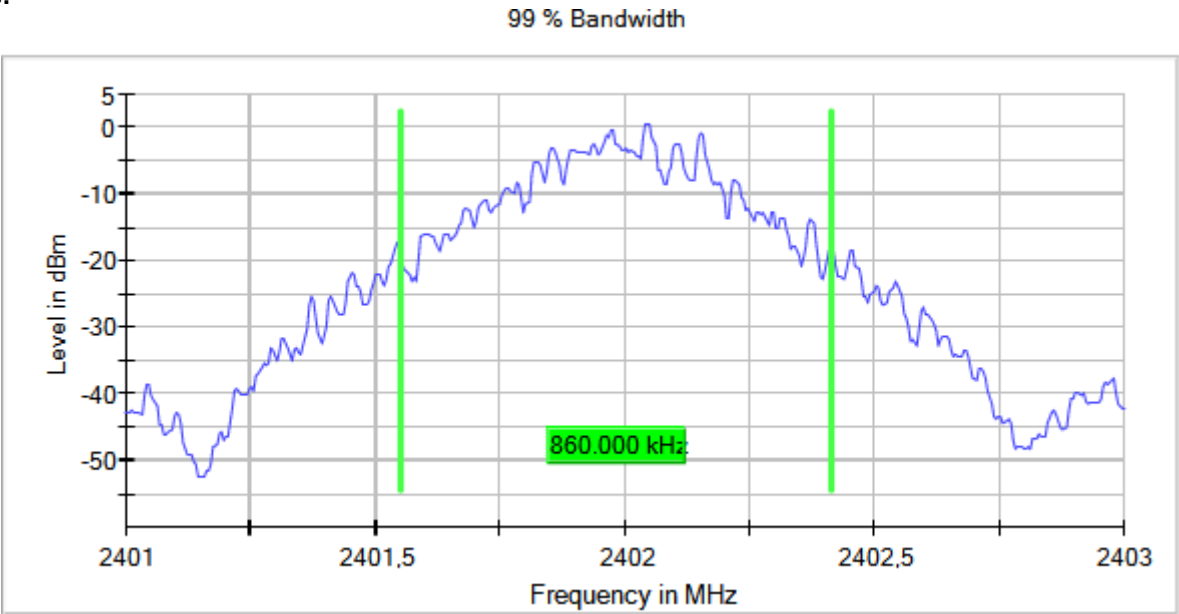
Pass



Attachments

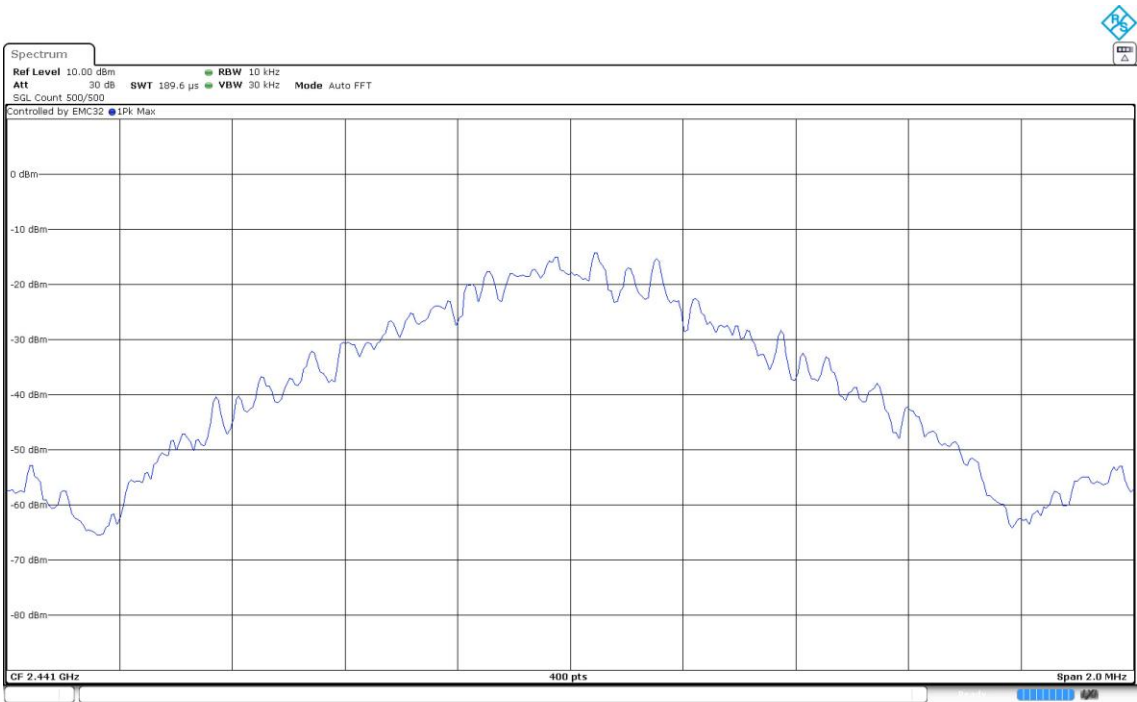
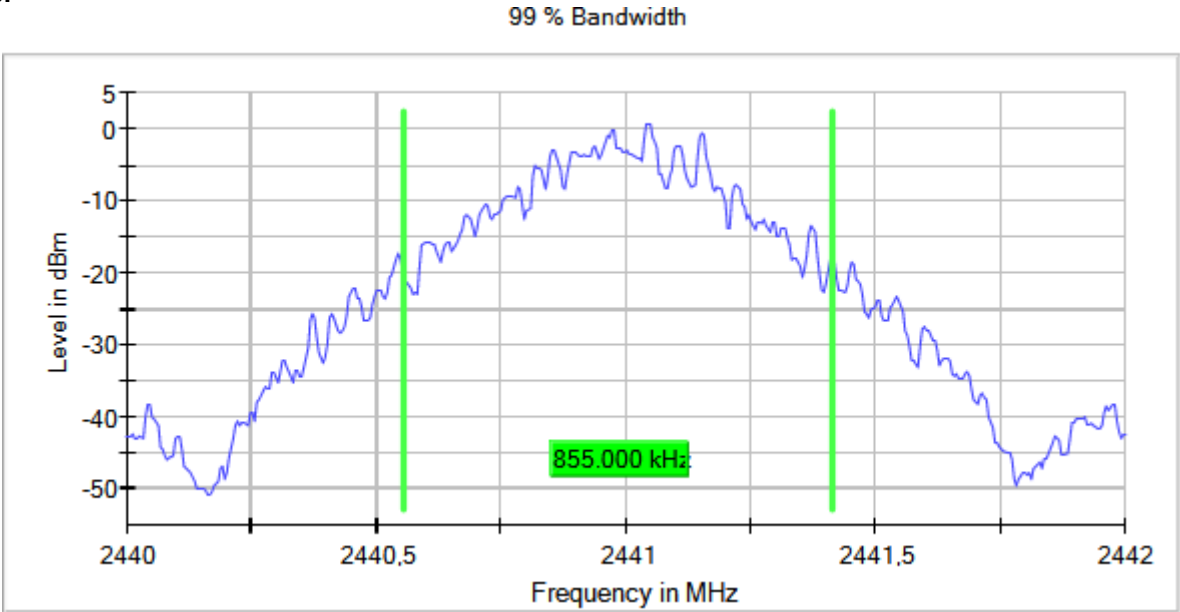
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2402.00000  
MIMO Mode = SISO      Active Port = 1

Images:



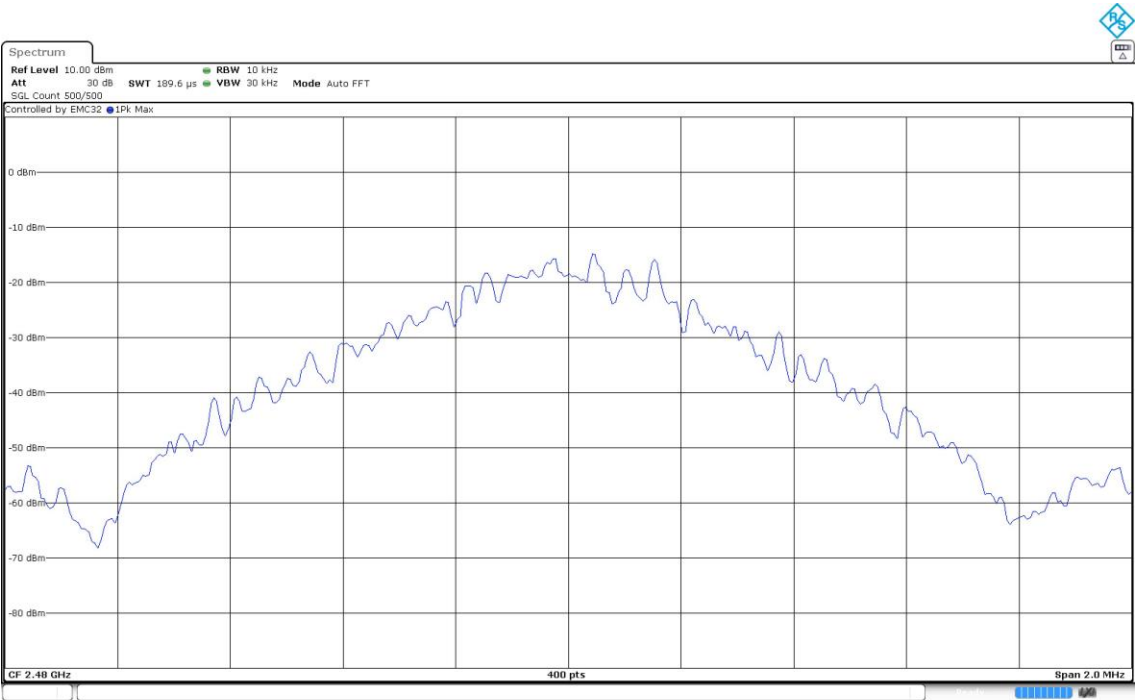
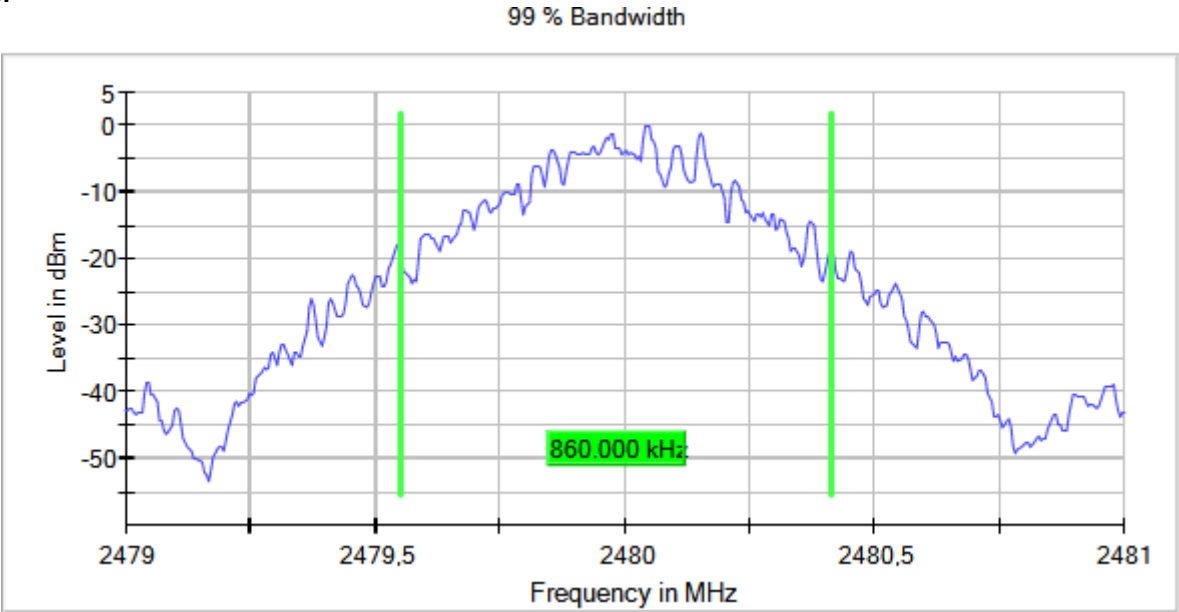
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Occ Ch BW (MHz) |
|-------------------------------------------------|----------|------------|------|-----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 1.170           |
|                                                 |          | 2441.00000 |      | 1.170           |
|                                                 |          | 2480.00000 |      | 1.180           |

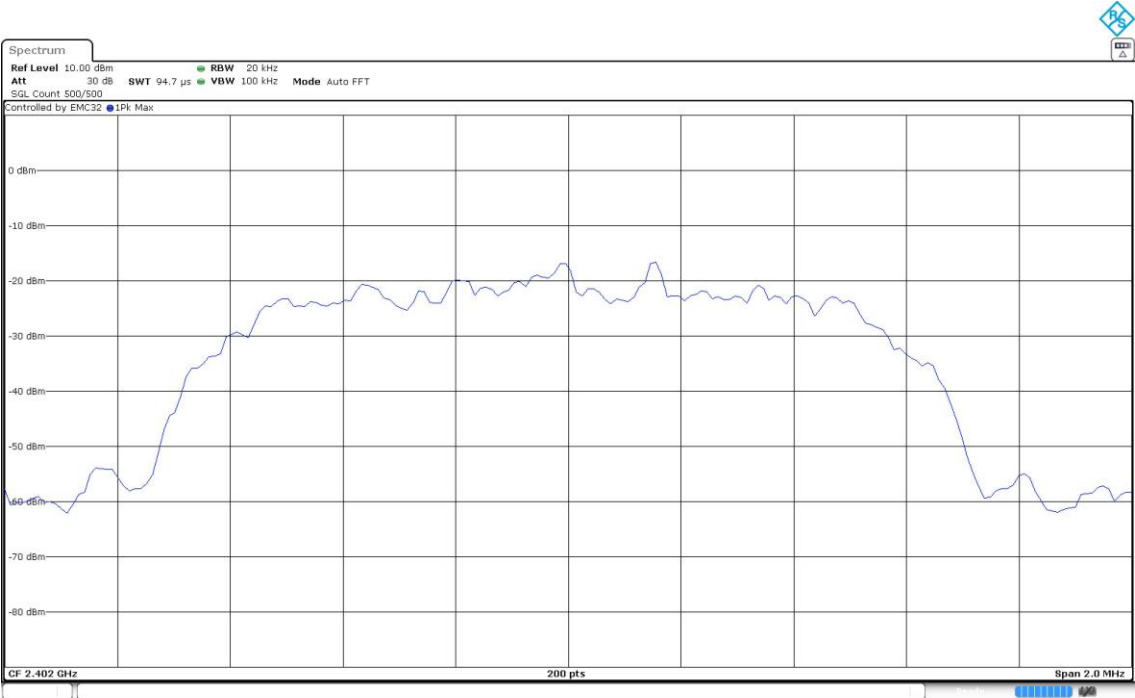
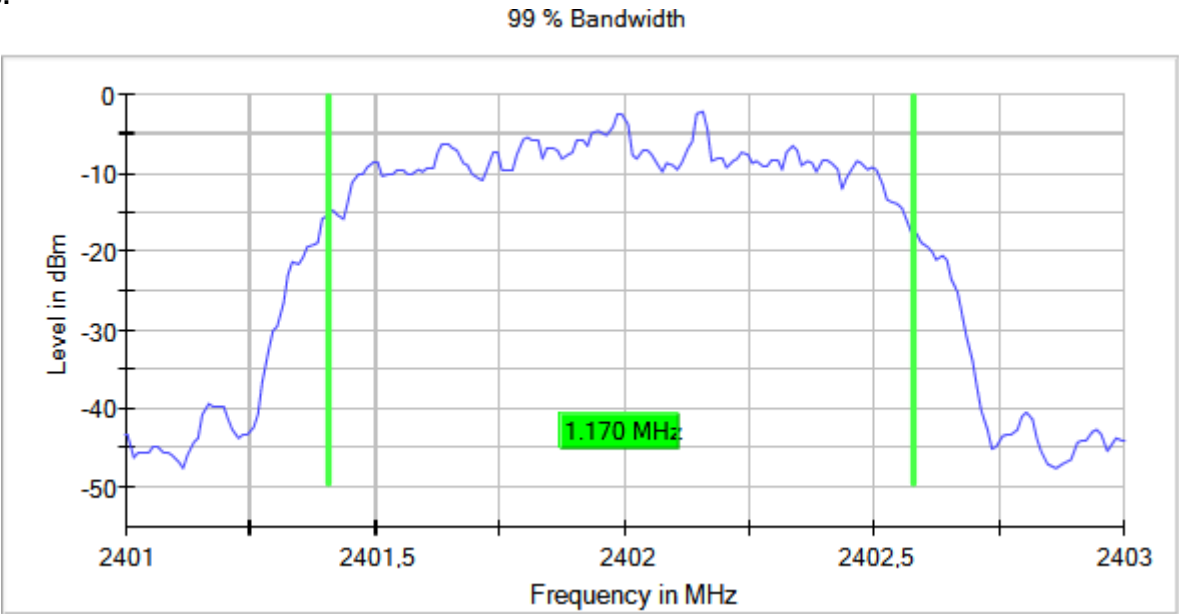
Verdict

Pass

Attachments

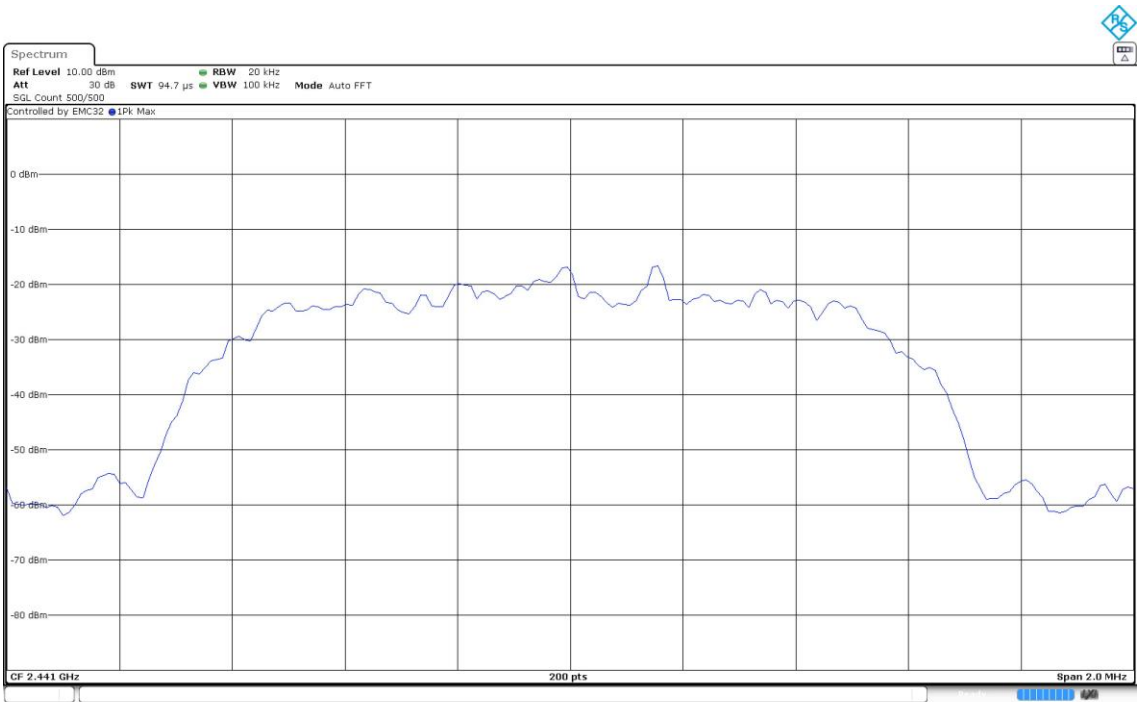
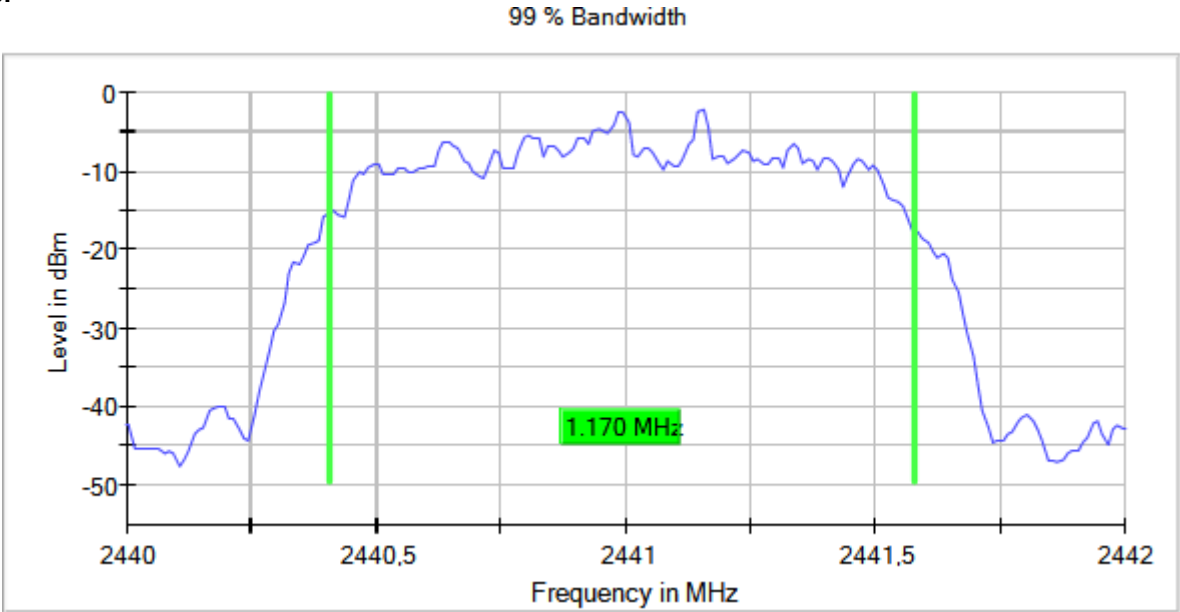
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)      Frequency MHz = 2402.00000  
MIMO Mode = SISO      Active Port = 1

Images:



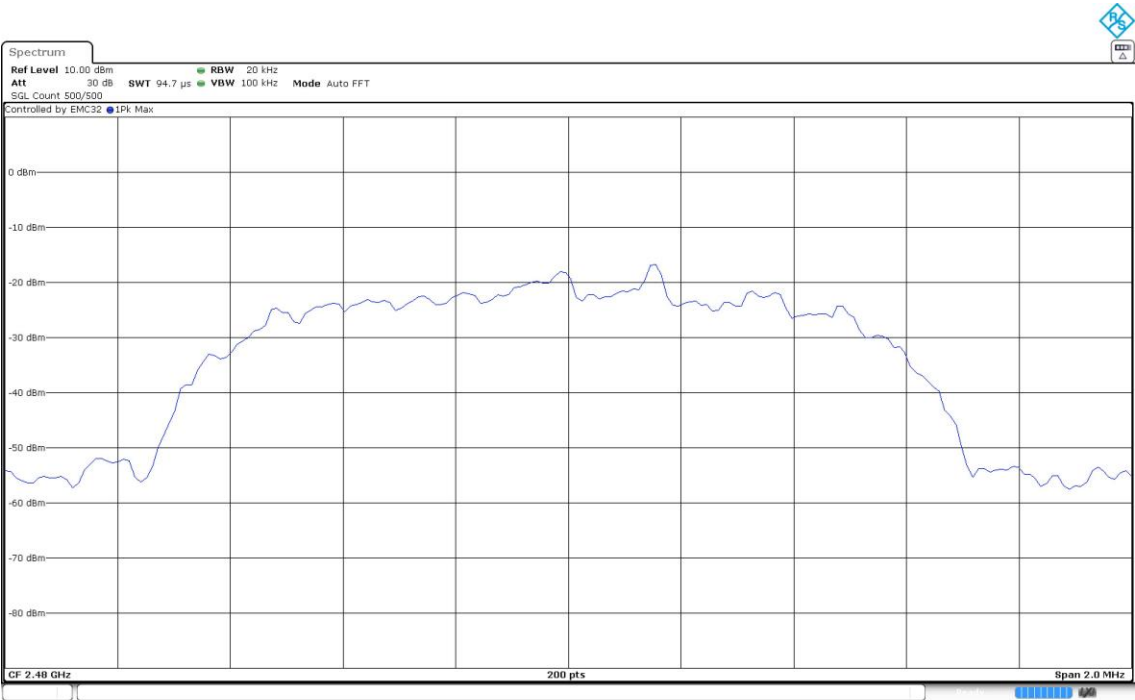
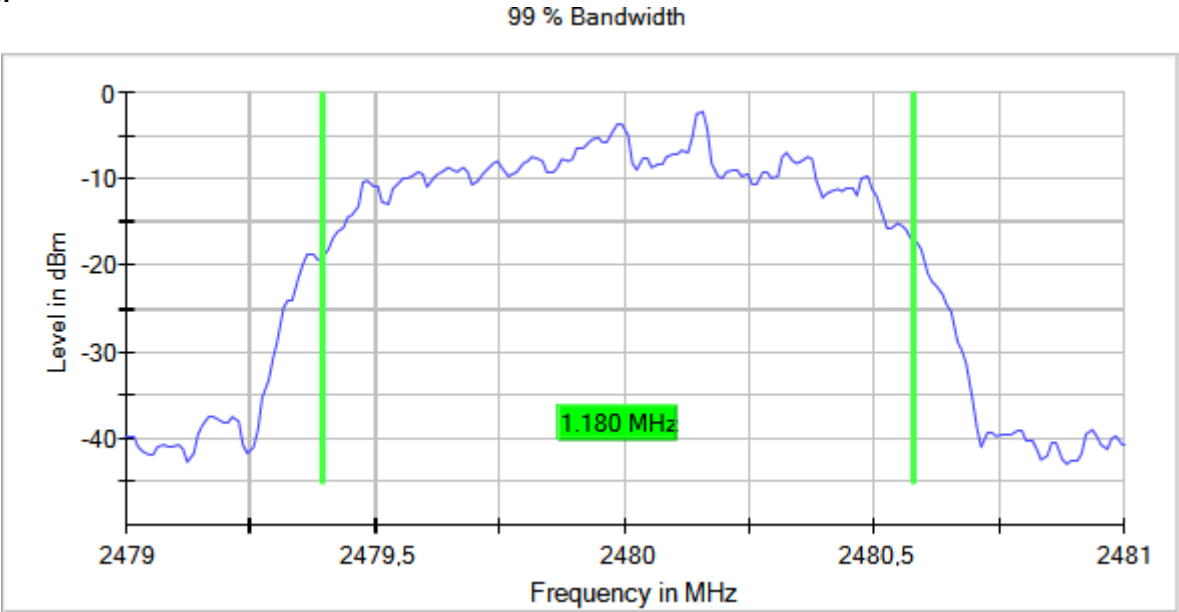
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    Frequency MHz = 2441.00000  
MIMO Mode = SISO    Active Port = 1

Images:



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

Images:



Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Occ Ch BW (MHz) |
|-------------------------------------------------|----------|------------|------|-----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 1.180           |
|                                                 |          | 2441.00000 |      | 1.180           |
|                                                 |          | 2480.00000 |      | 1.180           |

Verdict

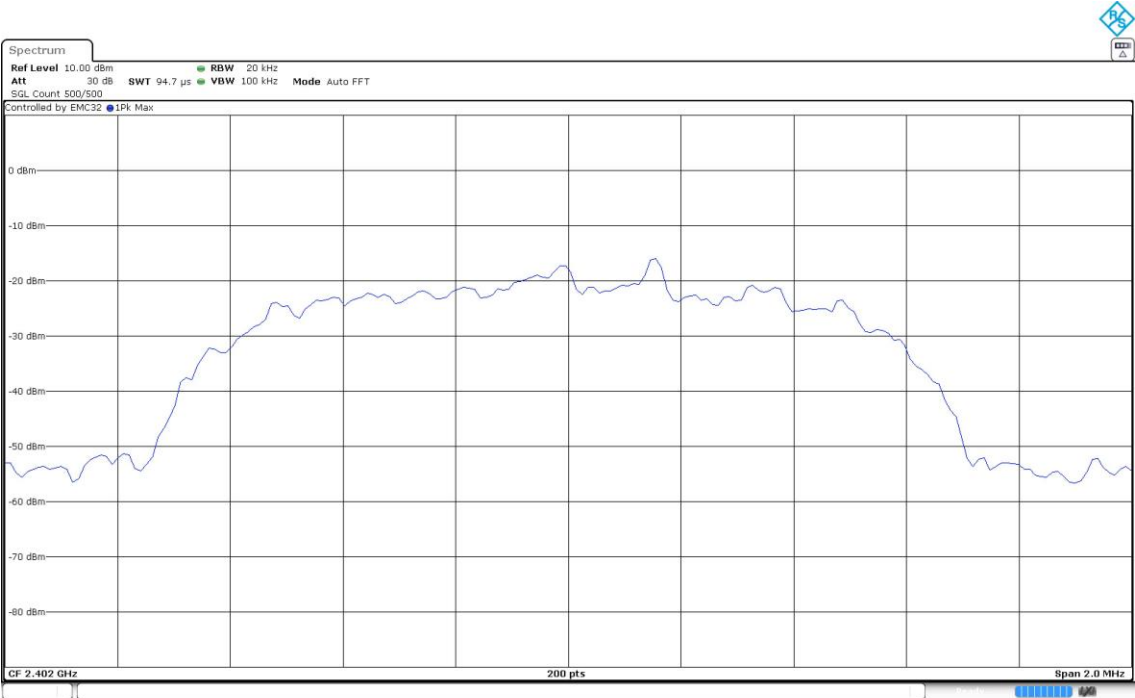
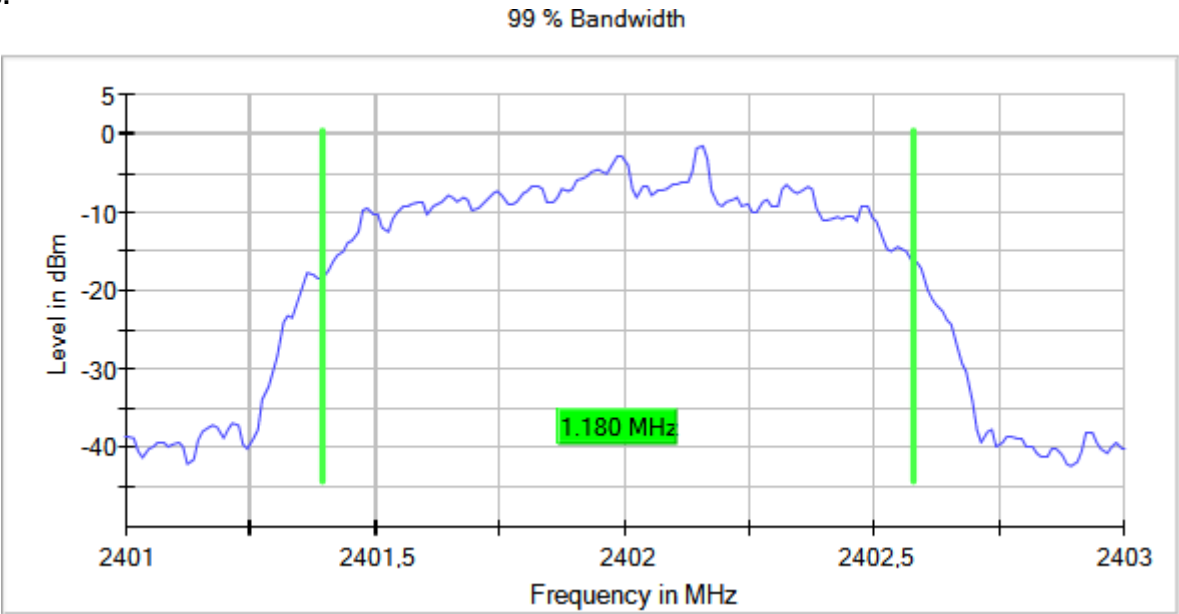
Pass



Attachments

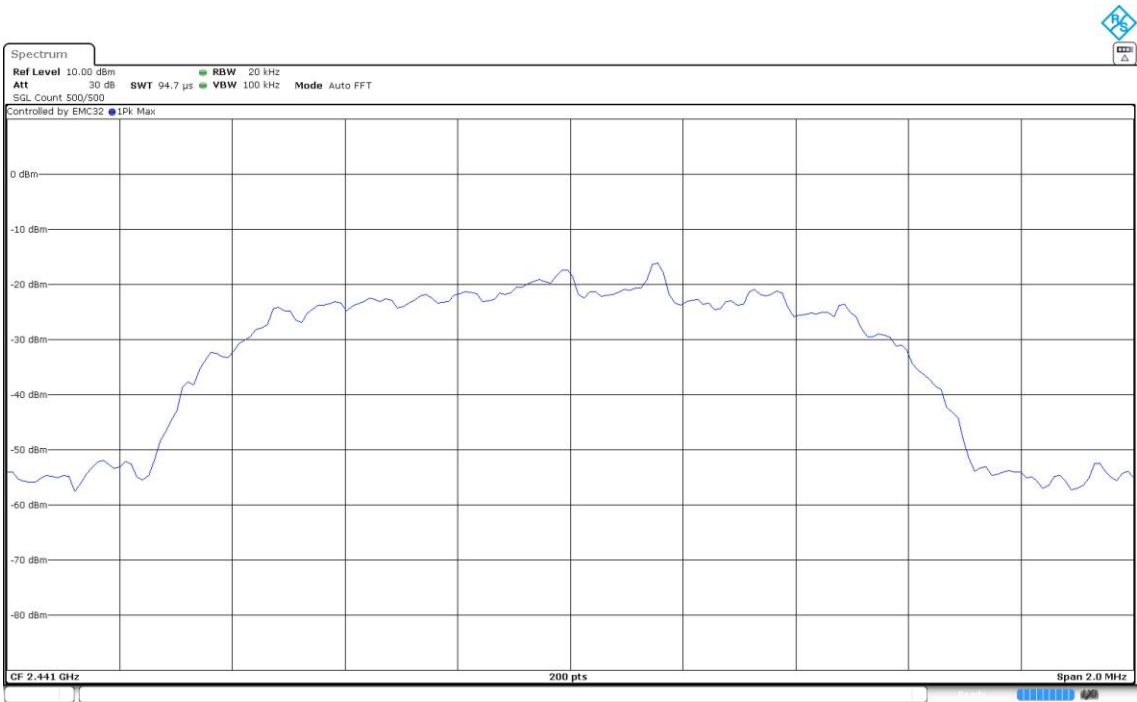
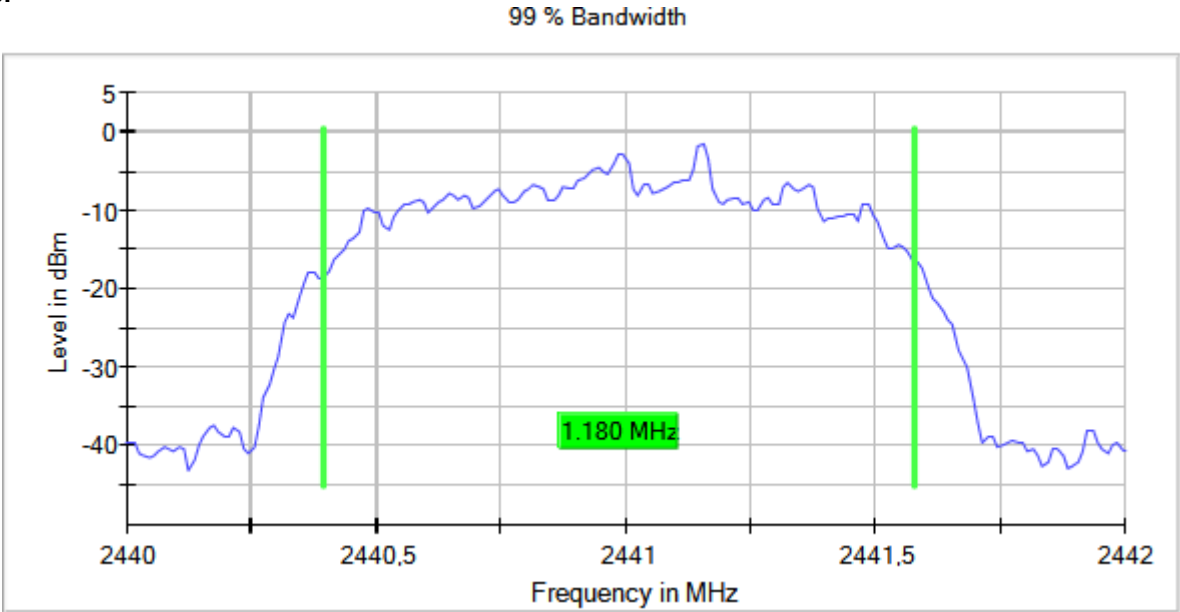
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    Frequency MHz = 2402.00000  
MIMO Mode = SISO    Active Port = 1

Images:



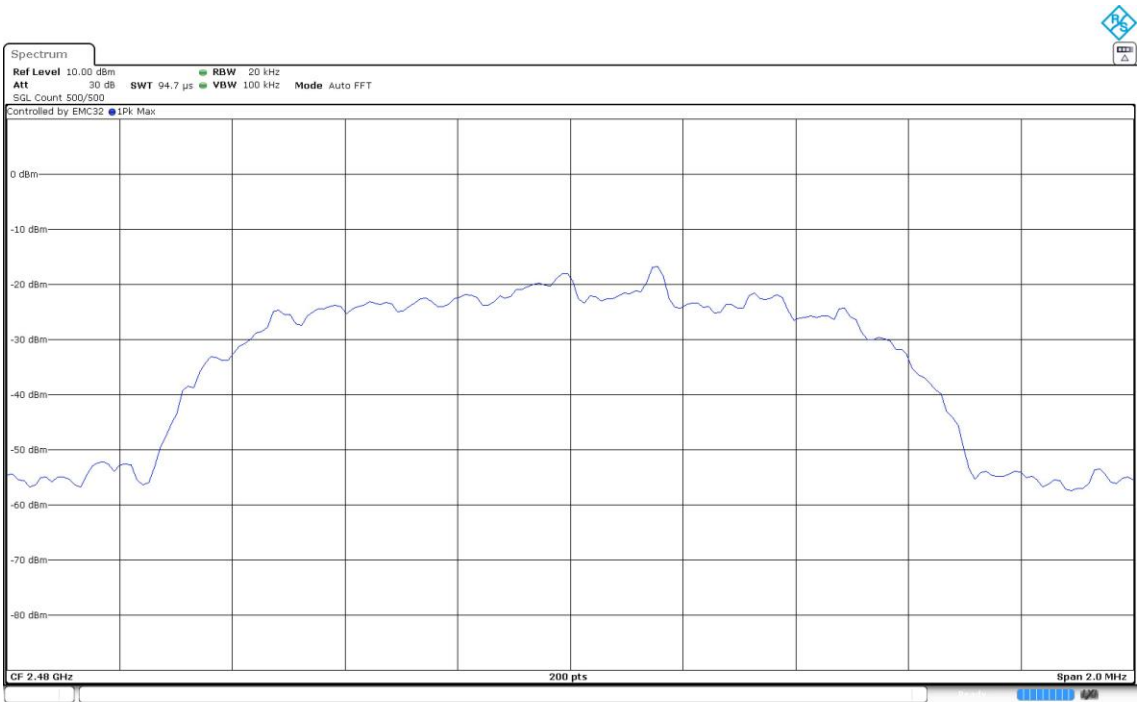
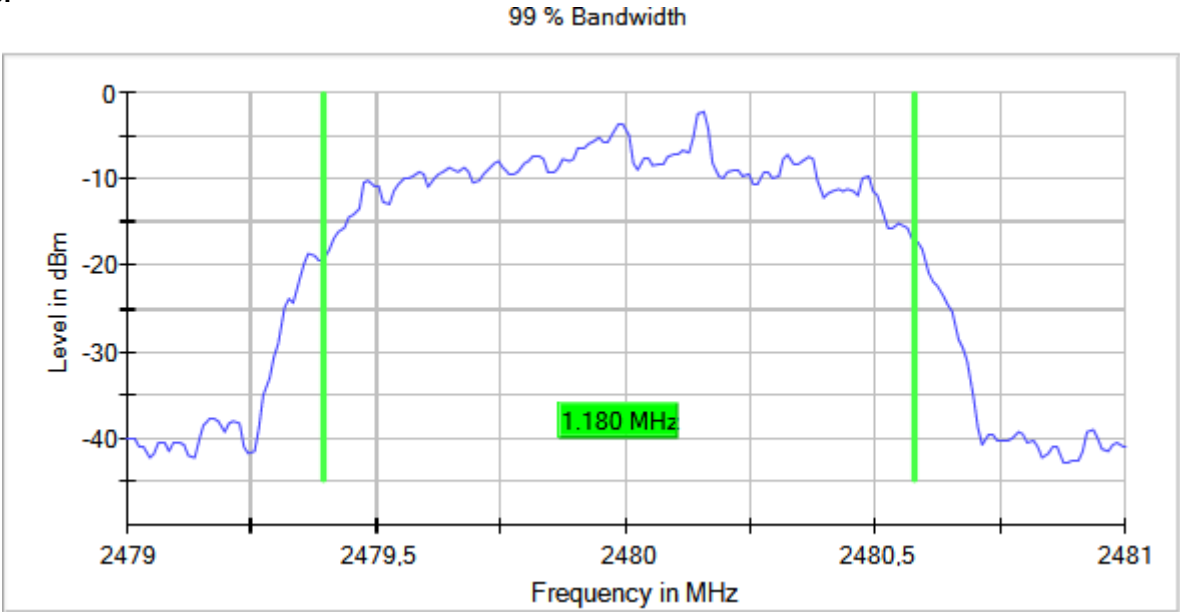
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    Frequency MHz = 2441.00000  
MIMO Mode = SISO    Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



RSS-247 5.1 (b) / FCC 15.247 (a) (1) [20dBW] 20 dB Bandwidth

Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Ebw (MHz) |
|-------------------------------------------------|----------|------------|------|-----------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 0.930     |
|                                                 |          | 2441.00000 |      | 0.930     |
|                                                 |          | 2480.00000 |      | 0.930     |

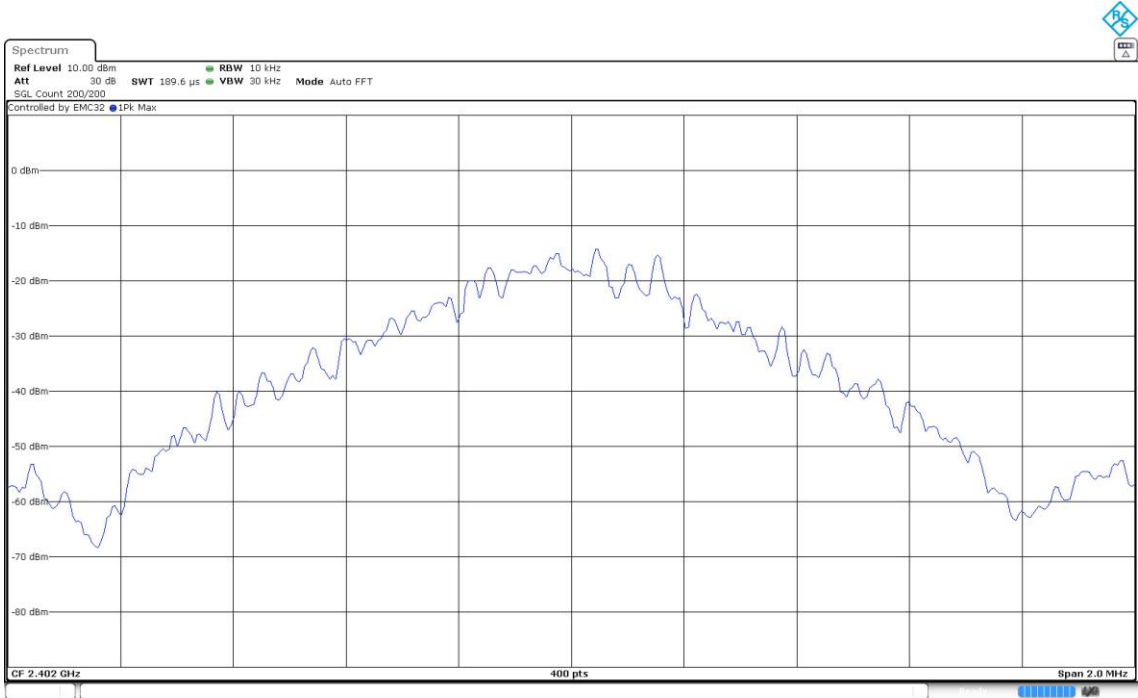
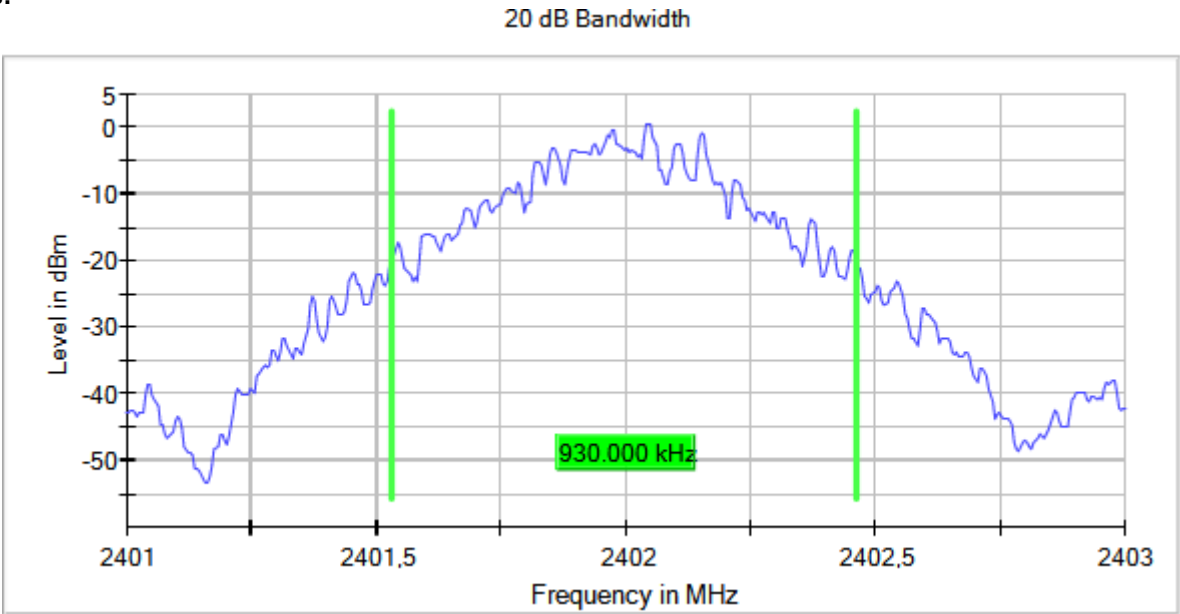
Verdict

Pass

Attachments

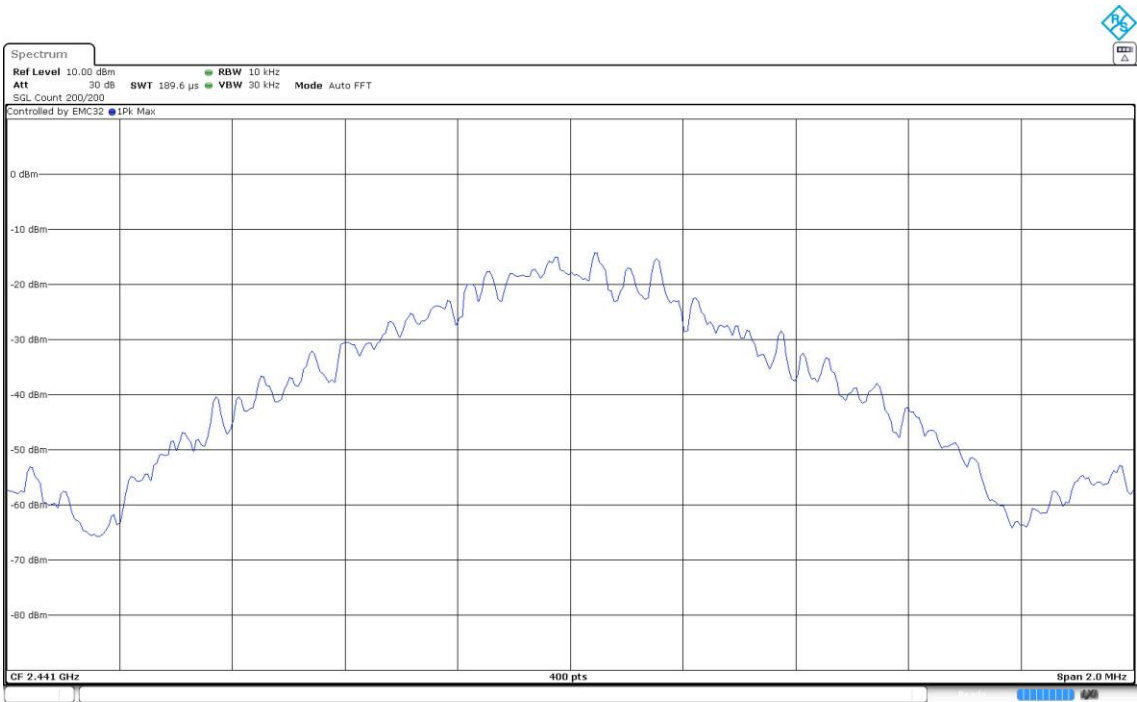
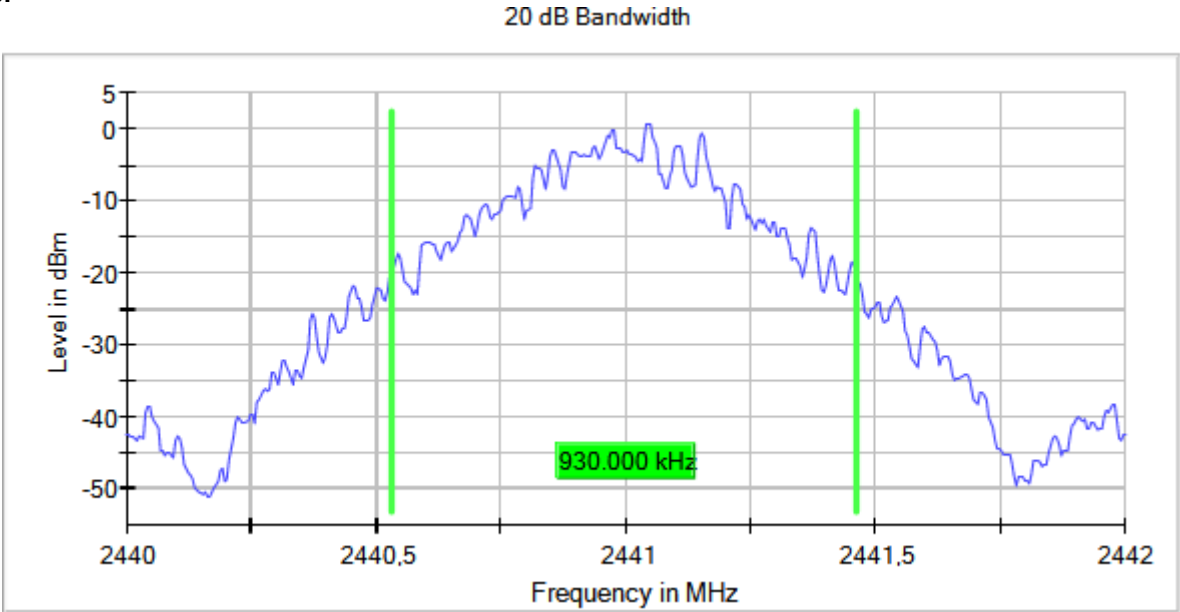
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    Frequency MHz = 2402.00000  
MIMO Mode = SISO    Active Port = 1

Images:



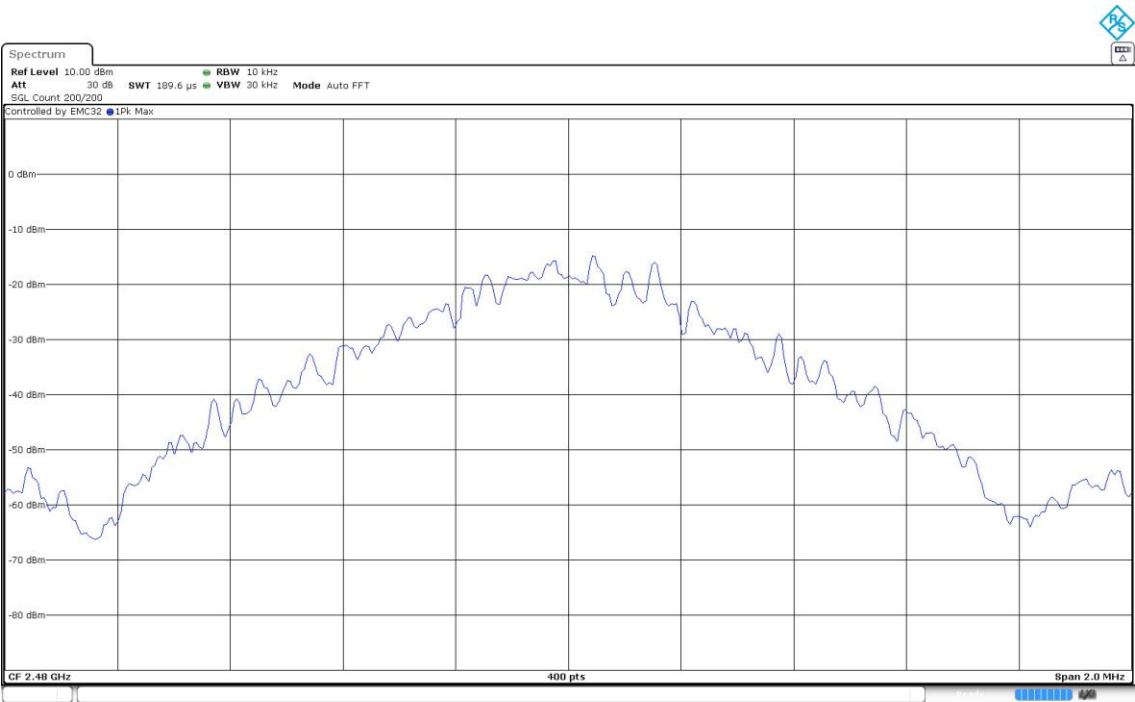
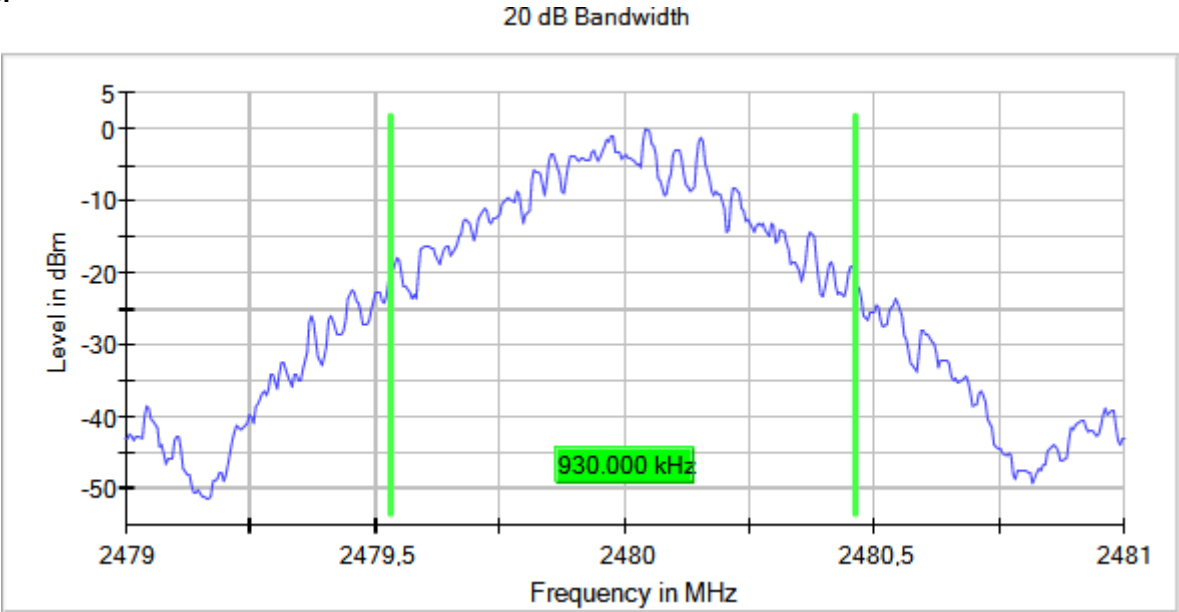
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    Frequency MHz = 2441.00000  
MIMO Mode = SISO    Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Ebw (MHz) |
|-------------------------------------------------|----------|------------|------|-----------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 1.315     |
|                                                 |          | 2441.00000 |      | 1.315     |
|                                                 |          | 2480.00000 |      | 1.315     |

Verdict

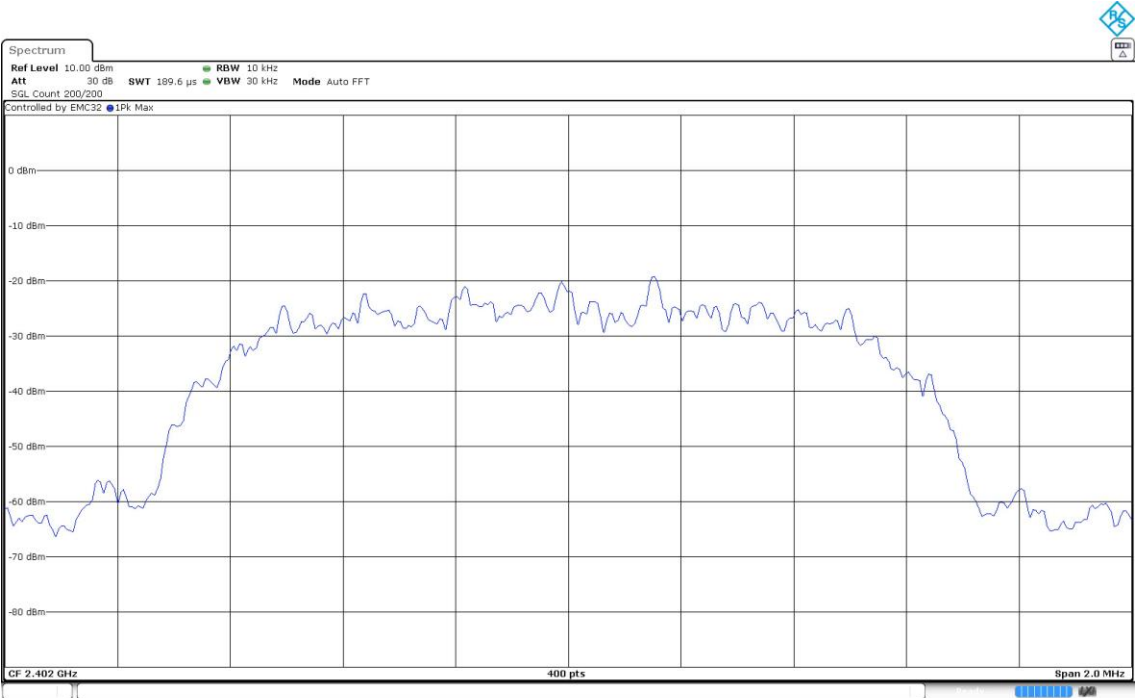
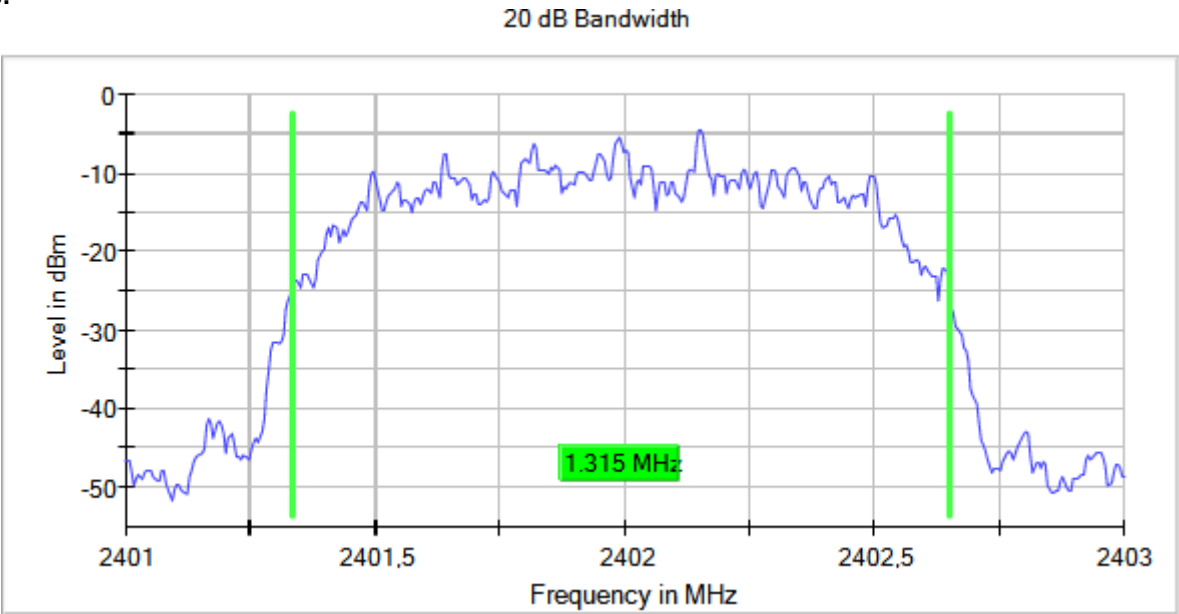
Pass



Attachments

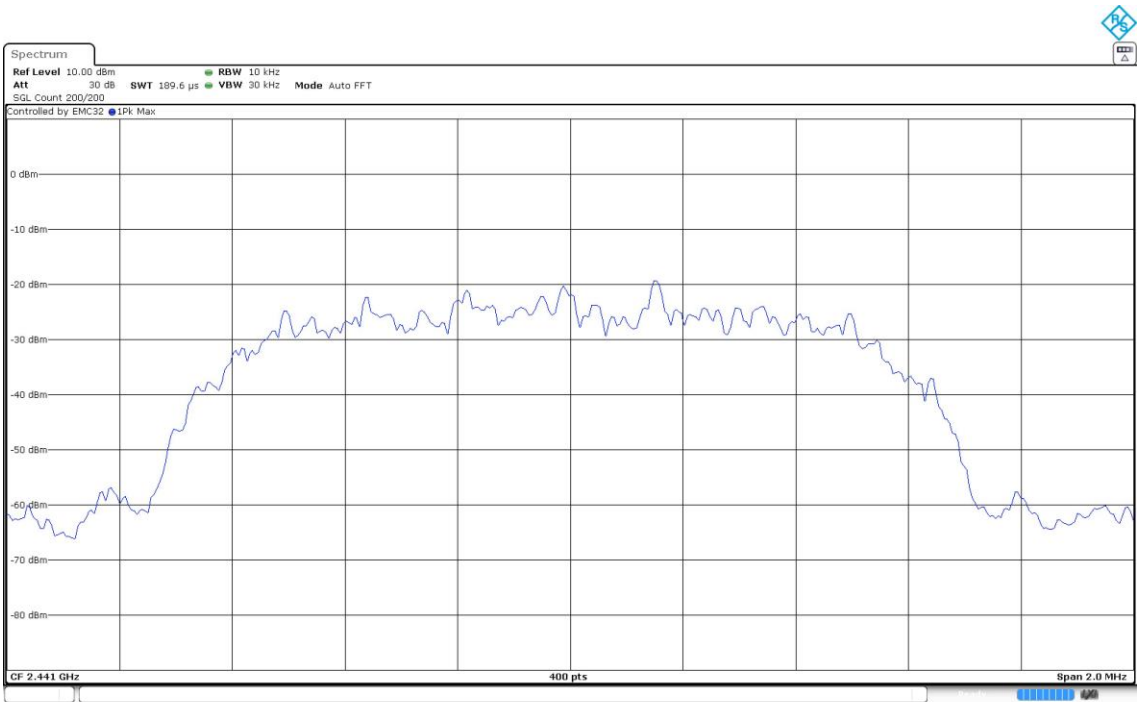
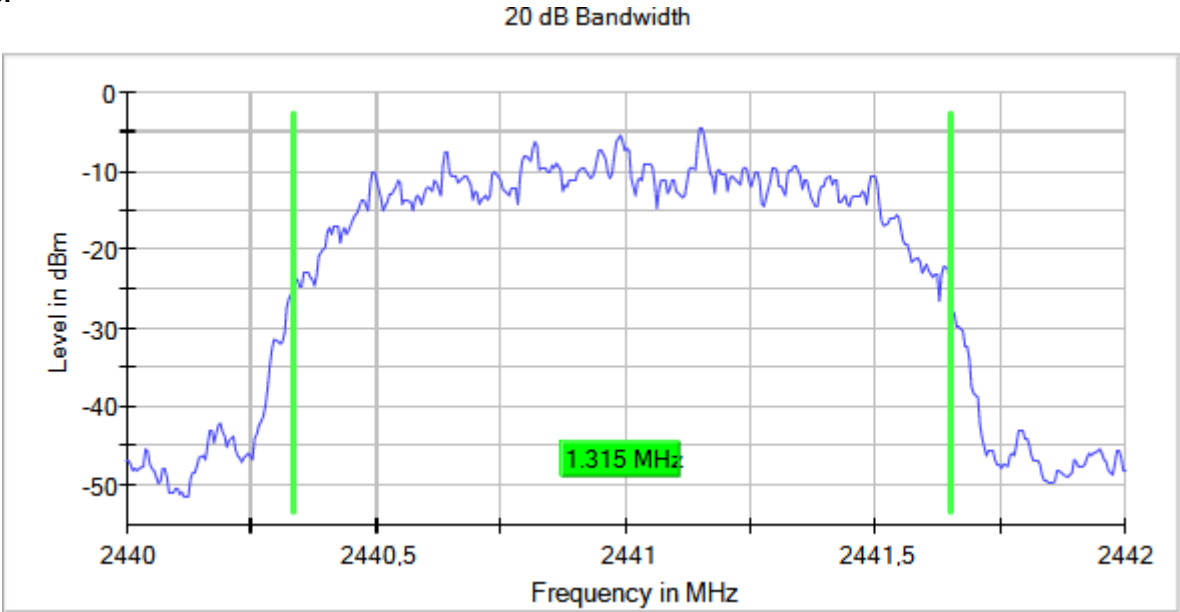
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)      Frequency MHz = 2402.00000  
MIMO Mode = SISO      Active Port = 1

Images:



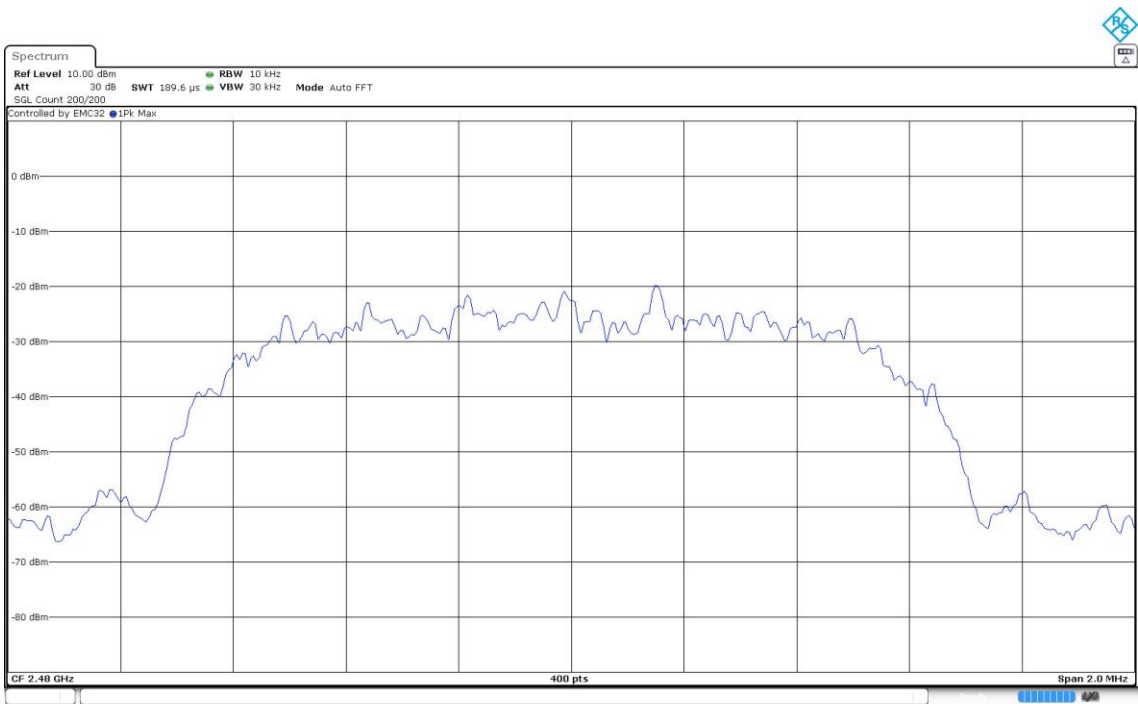
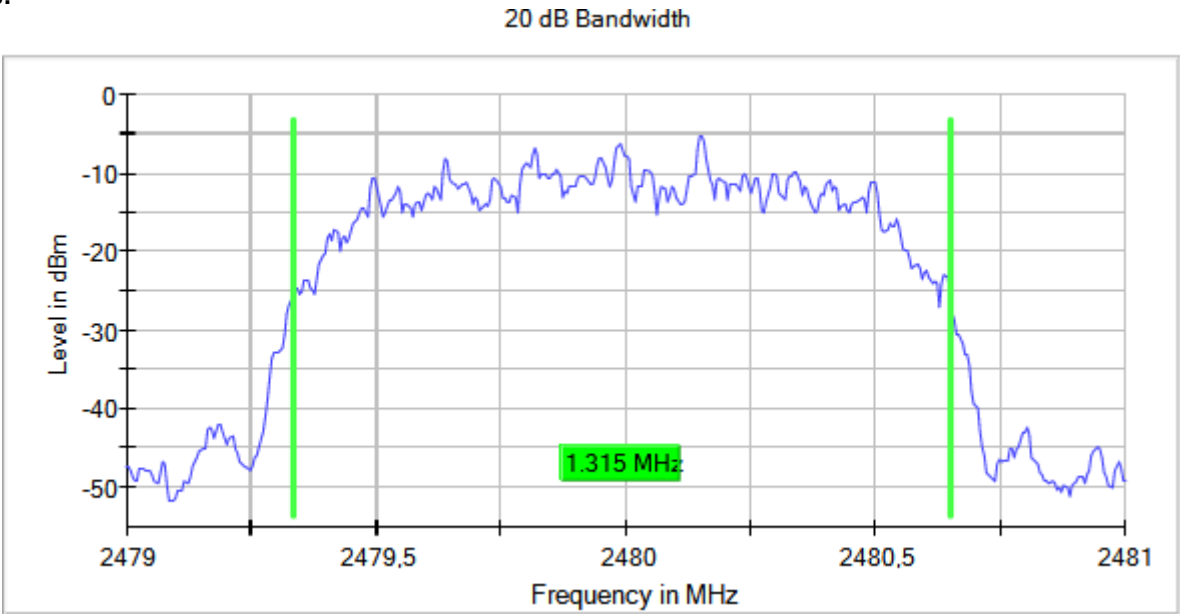
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



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

Images:



Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Ebw (MHz) |
|-------------------------------------------------|----------|------------|------|-----------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 1.270     |
|                                                 |          | 2441.00000 |      | 1.270     |
|                                                 |          | 2480.00000 |      | 1.270     |

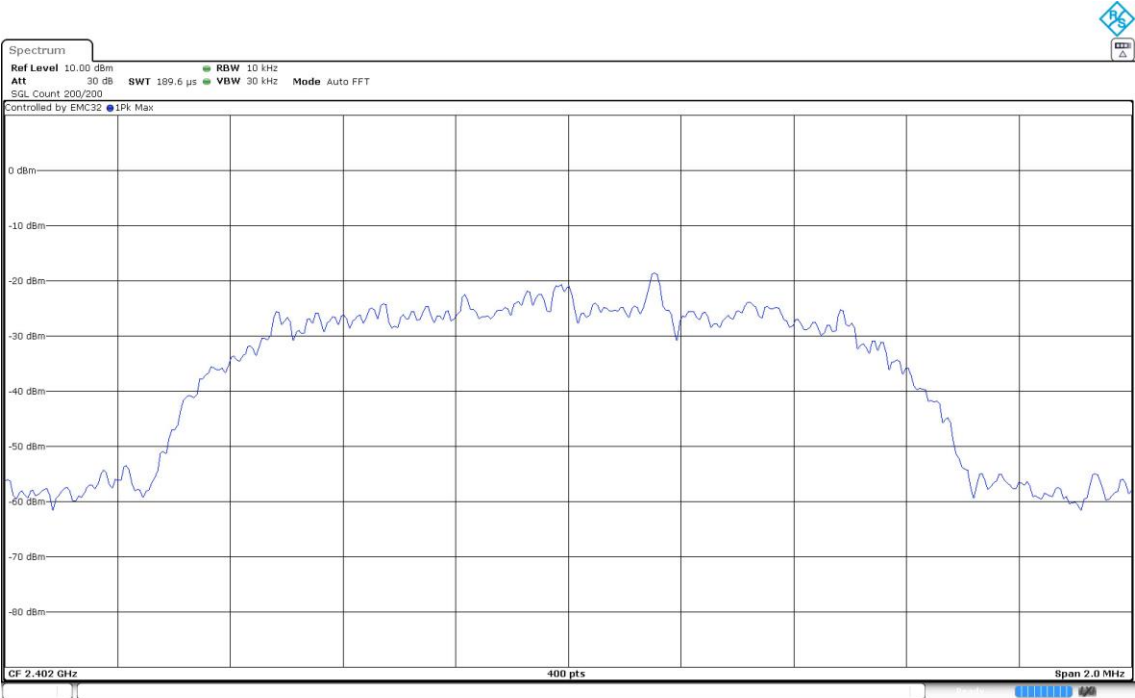
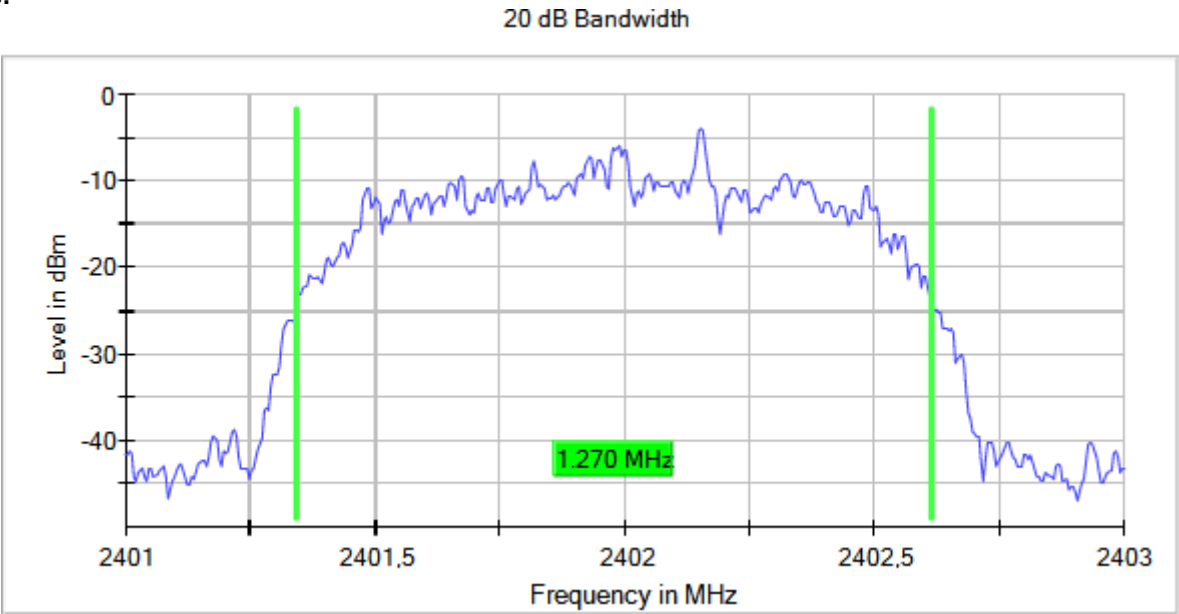
Verdict

Pass

Attachments

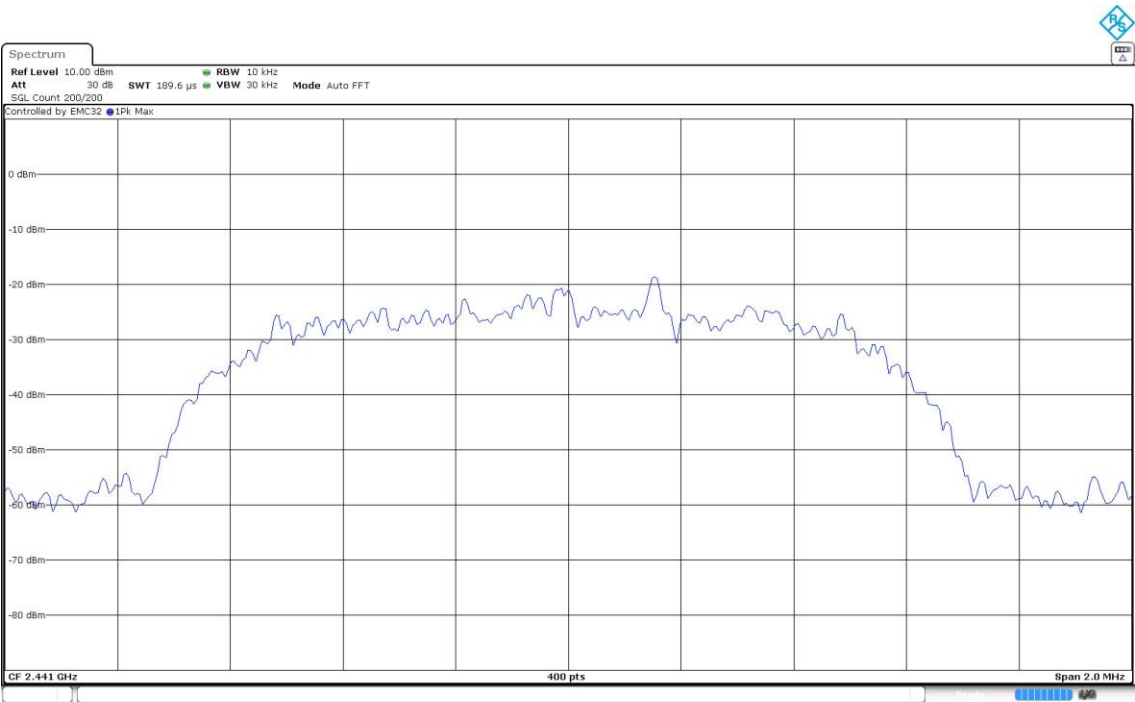
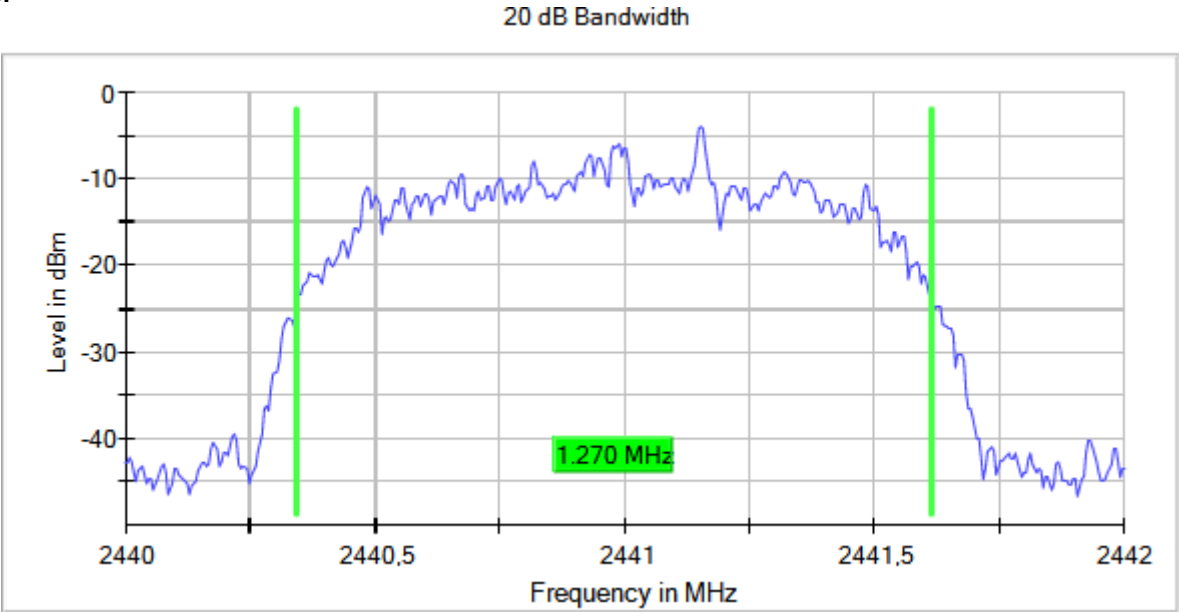
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)      Frequency MHz = 2402.00000  
MIMO Mode = SISO      Active Port = 1

Images:



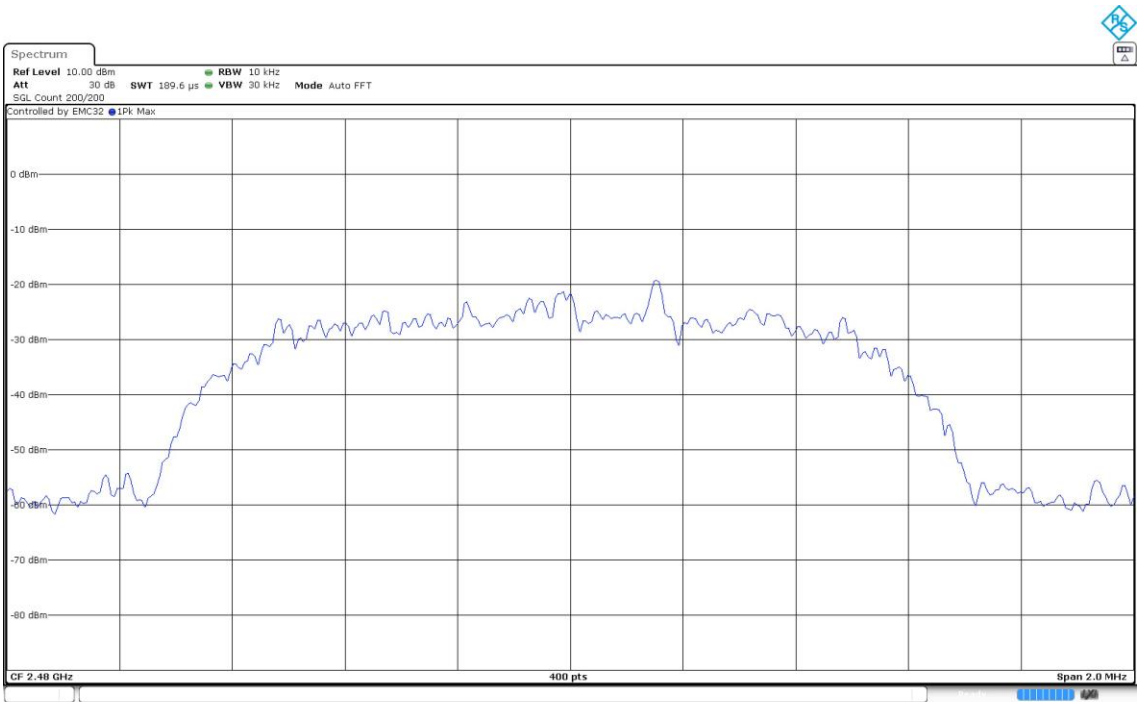
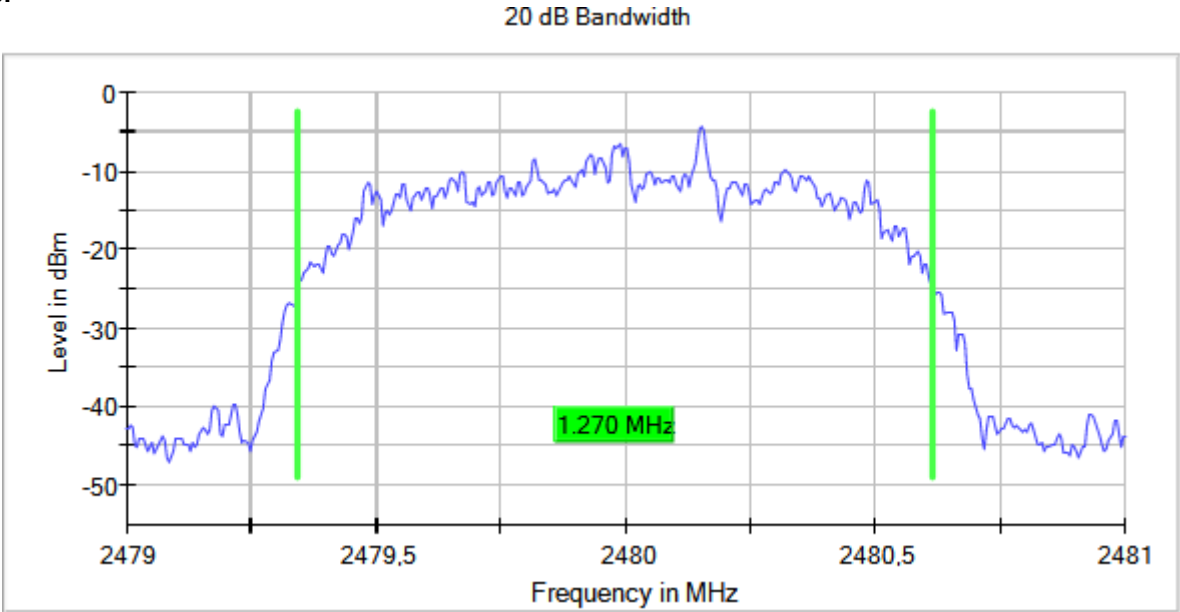
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



# RSS-247 5.1 (b) / FCC 15.247 (a) (1) [CFS] Carrier Frequency Separation

Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | Freq Sep (MHz) |
|-------------------------------------------------|----------|------|----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 0.98           |

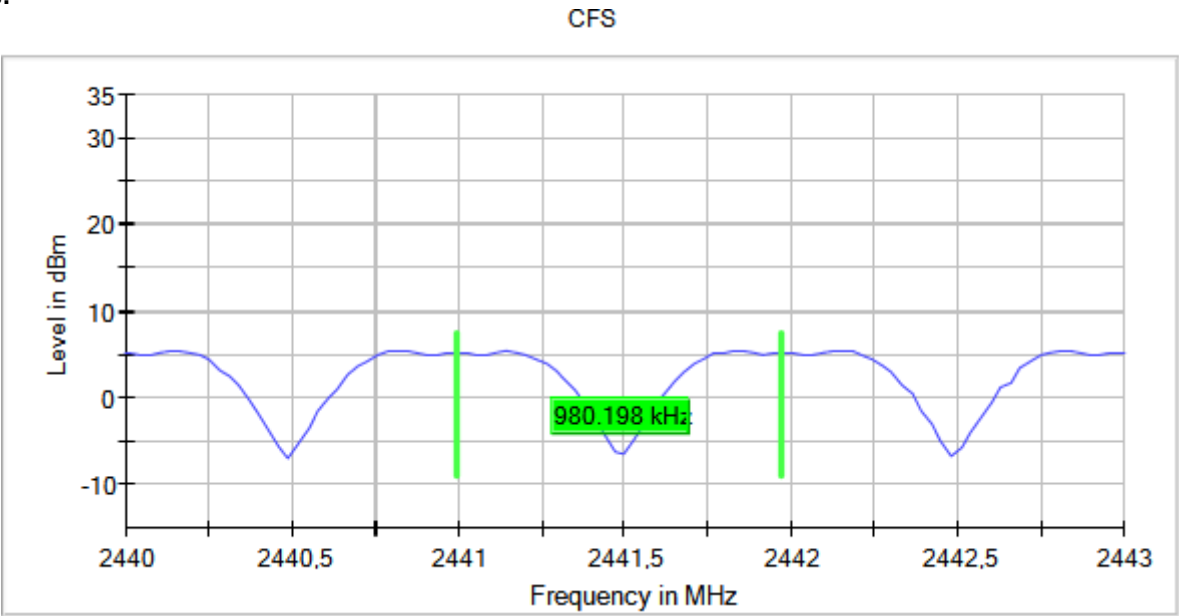
Verdict

Pass

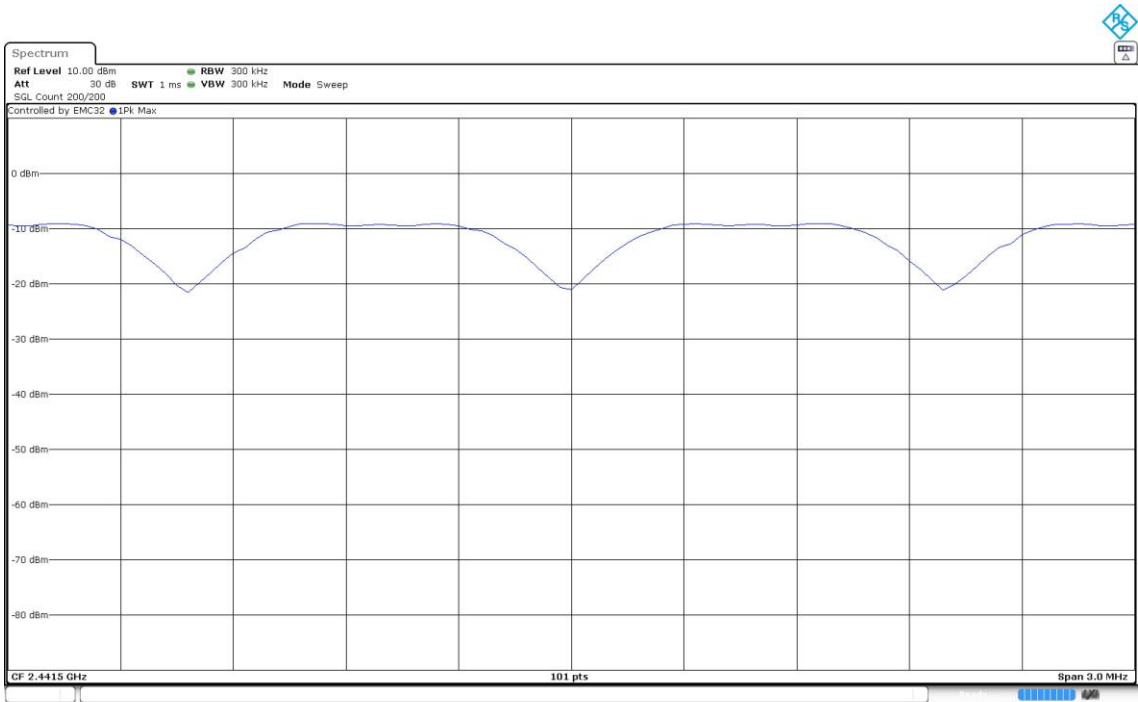
Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:







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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | Freq Sep (MHz) |
|-------------------------------------------------|----------|------|----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 1.01           |

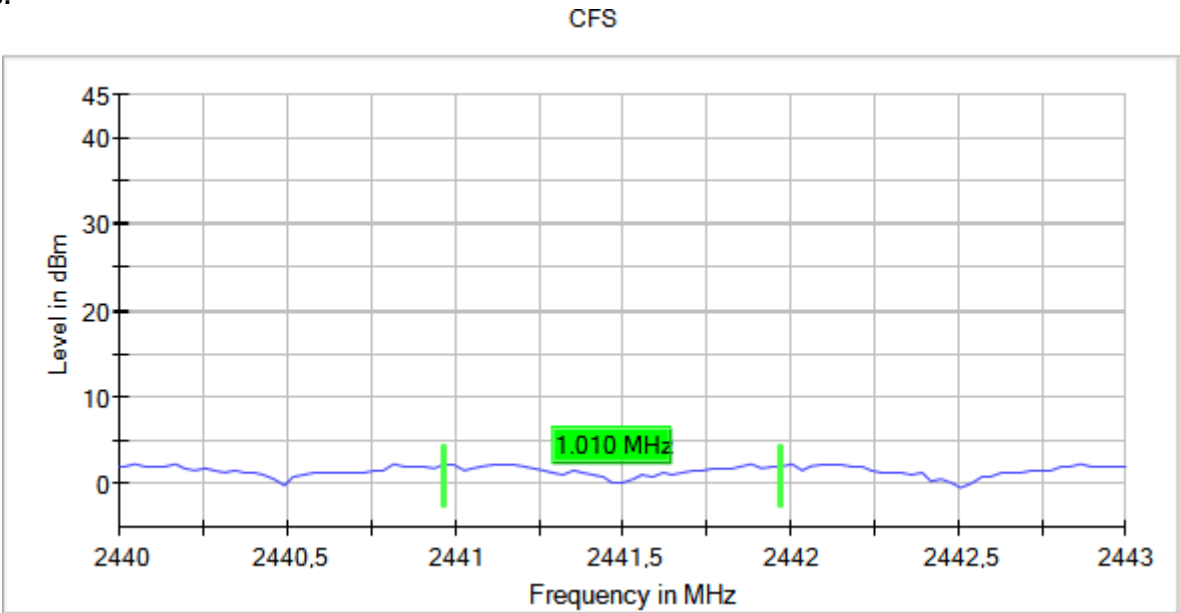
Verdict

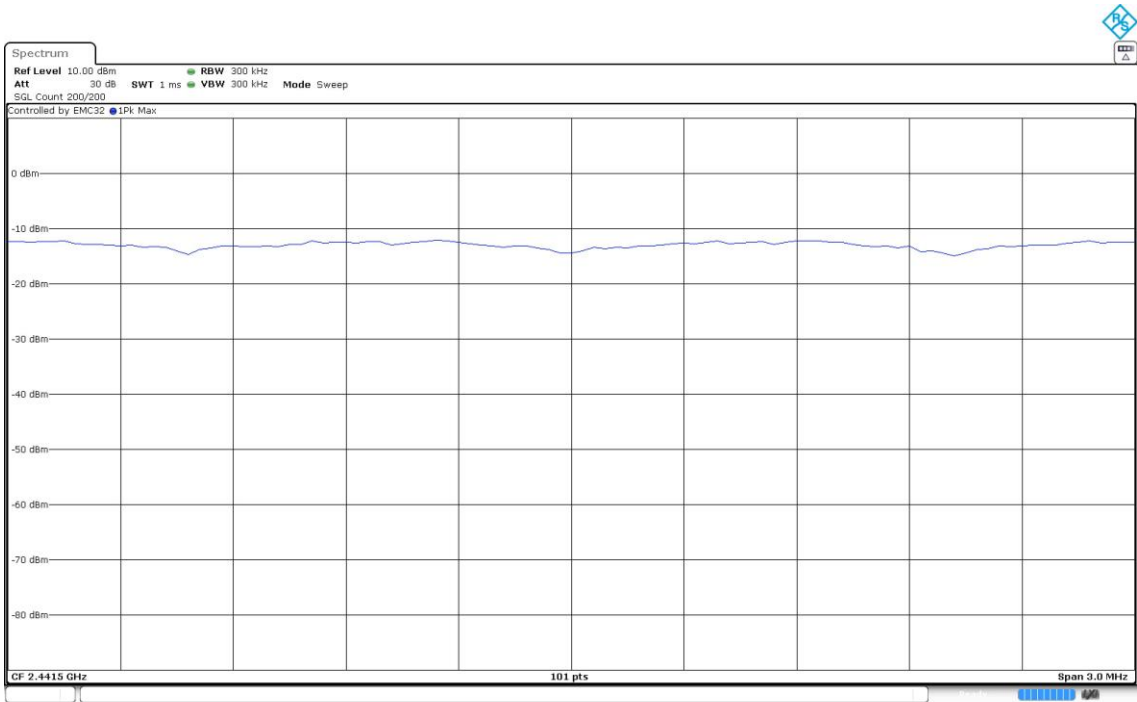
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:





Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | Freq Sep (MHz) |
|-------------------------------------------------|----------|------|----------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 1.01           |

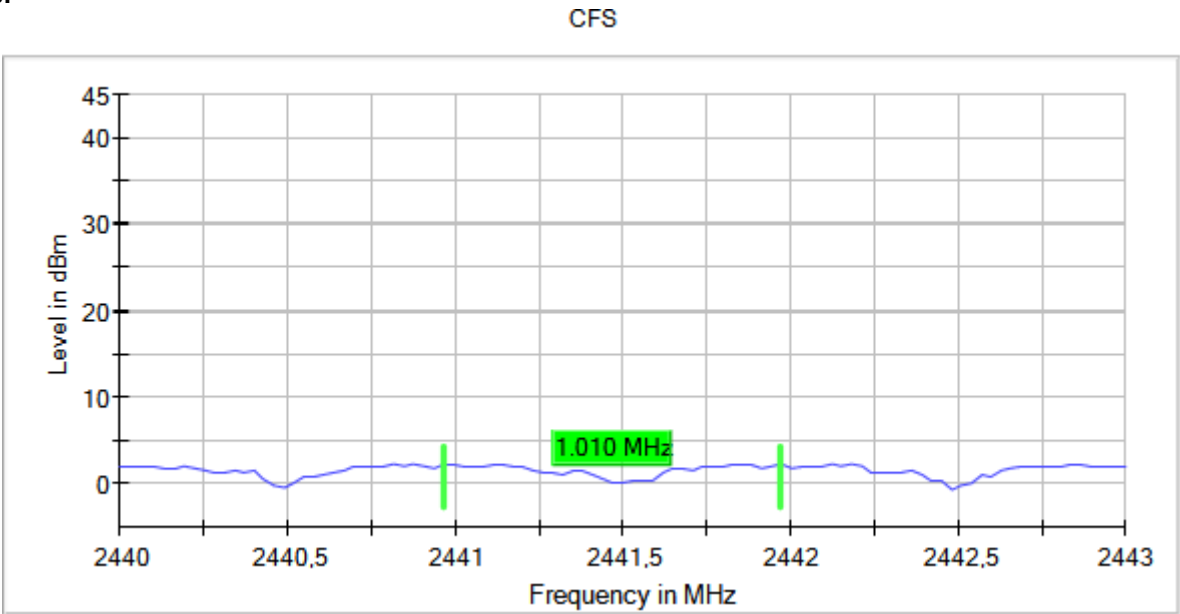
Verdict

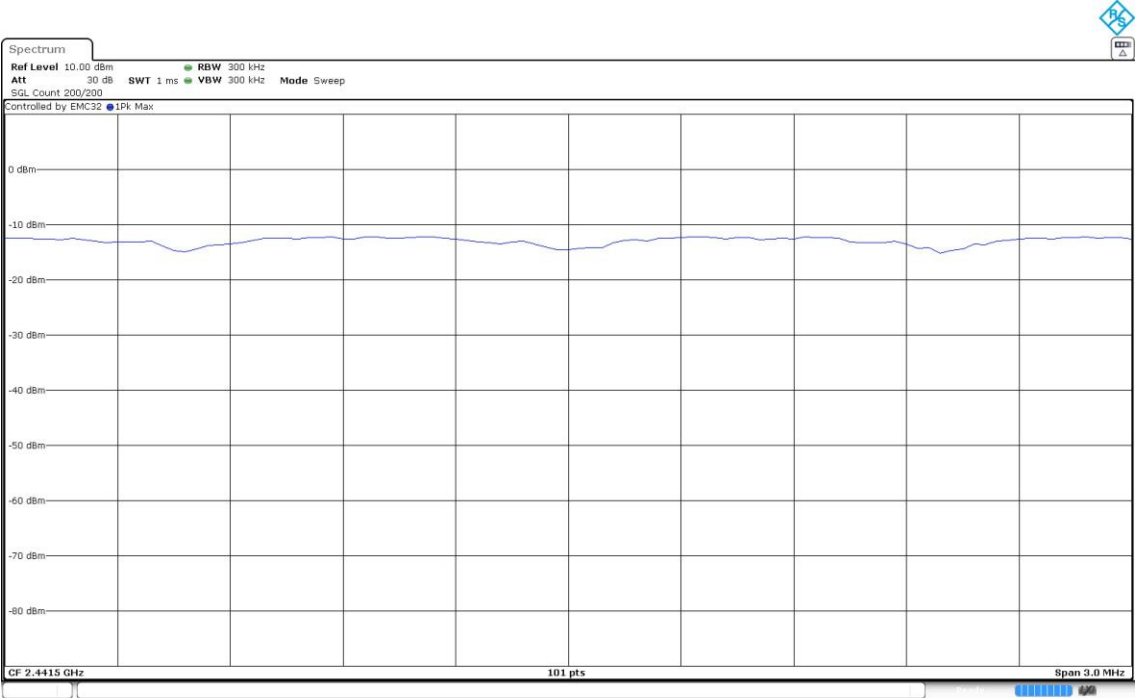
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:





RSS-247 5.1 (d) / FCC 15.247 (a) (1) (iii) [DwT] Time of Occupancy  
(Dwell Time)

Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds (400 ms) within a period of 0.4 seconds multiplied by the number of hopping channels employed = 0.4 x 79= 31.6 seconds.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHp | Avg COT (ms) |
|-------------------------------------------------|----------|------|-----|--------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 93  | 273.96       |
|                                                 |          |      | 92  | 269.49       |
|                                                 |          |      | 99  | 289.85       |

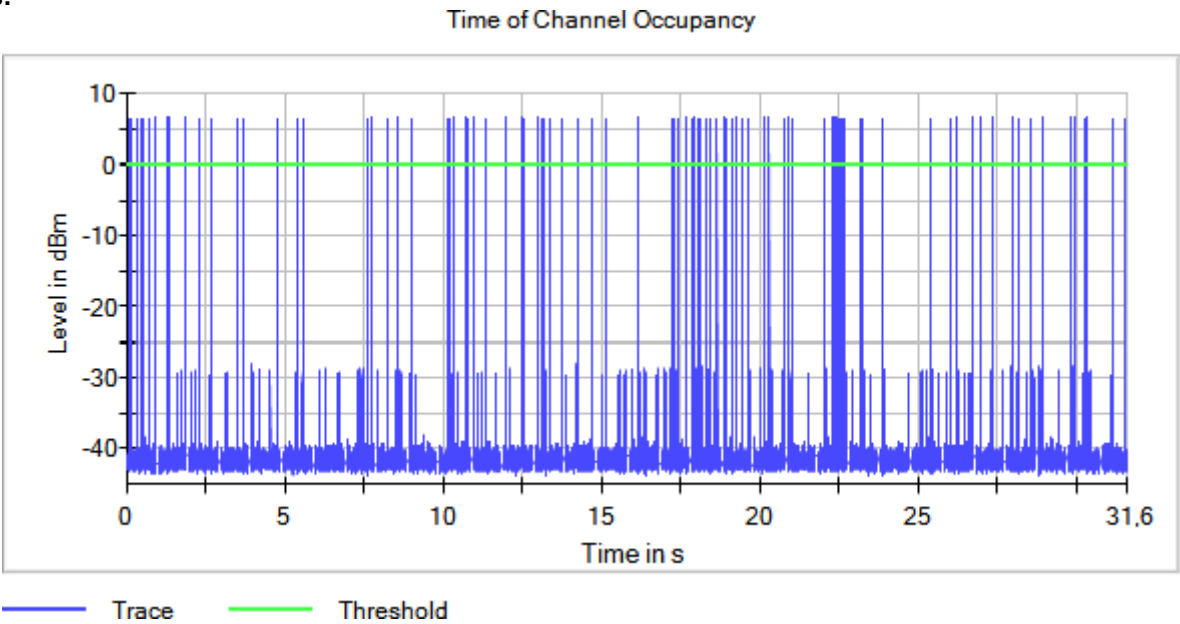
Verdict

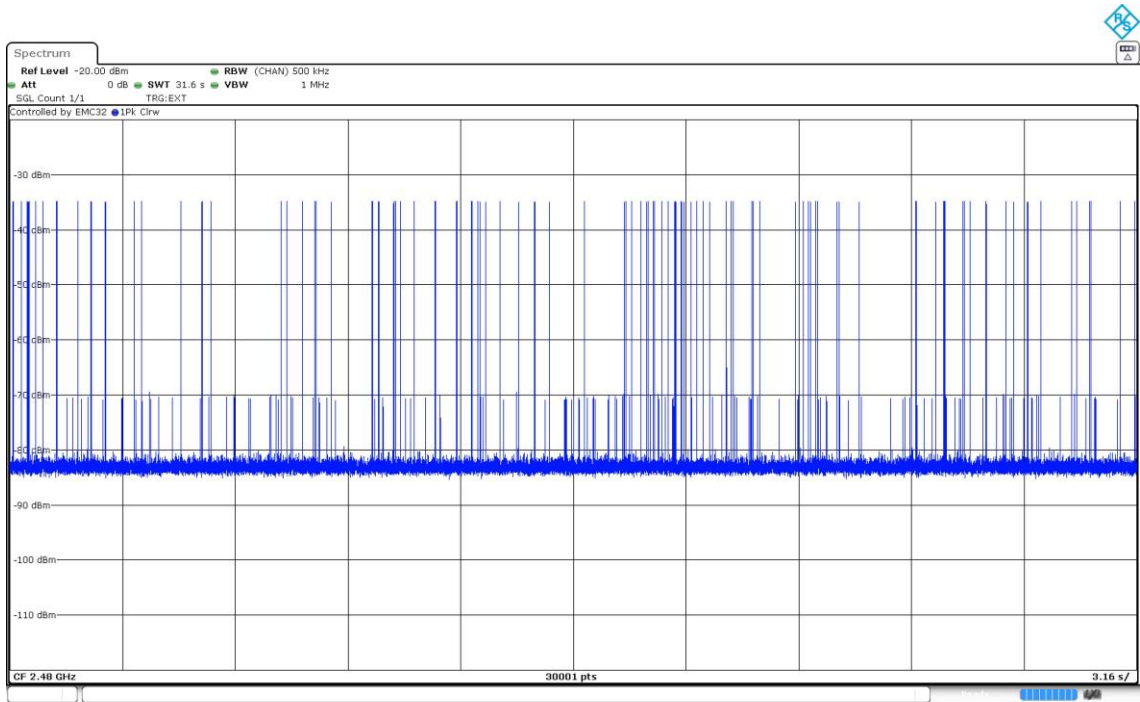
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    MIMO Mode = SISO  
Active Port = 1

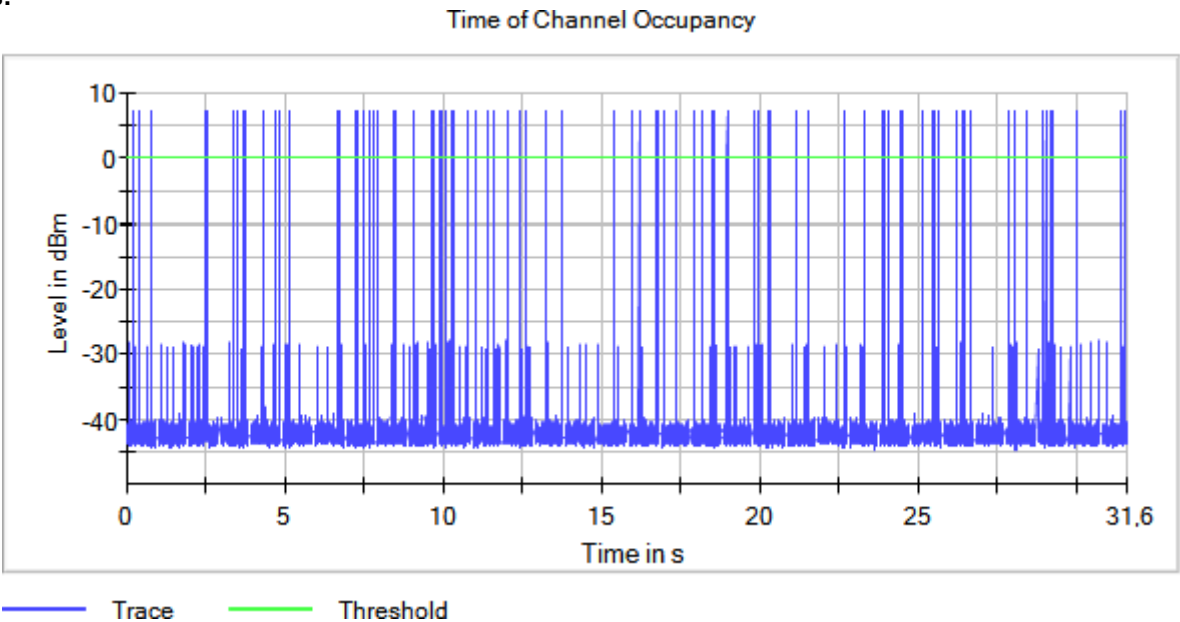
Images:

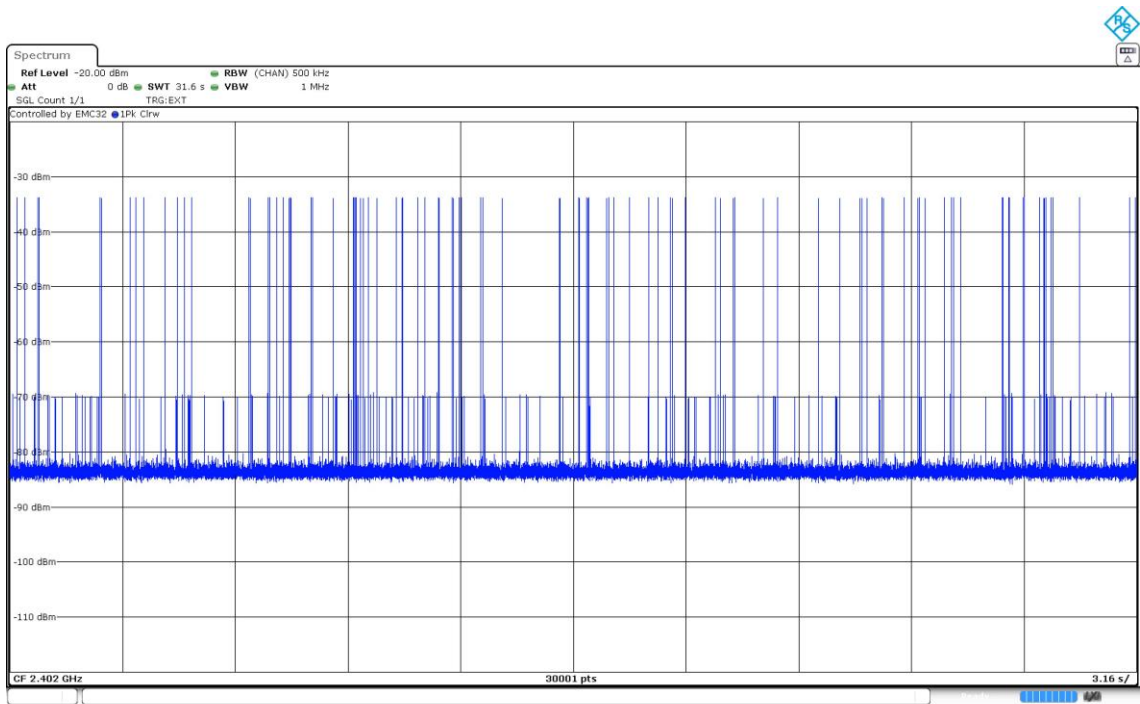




Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    MIMO Mode = SISO  
Active Port = 1

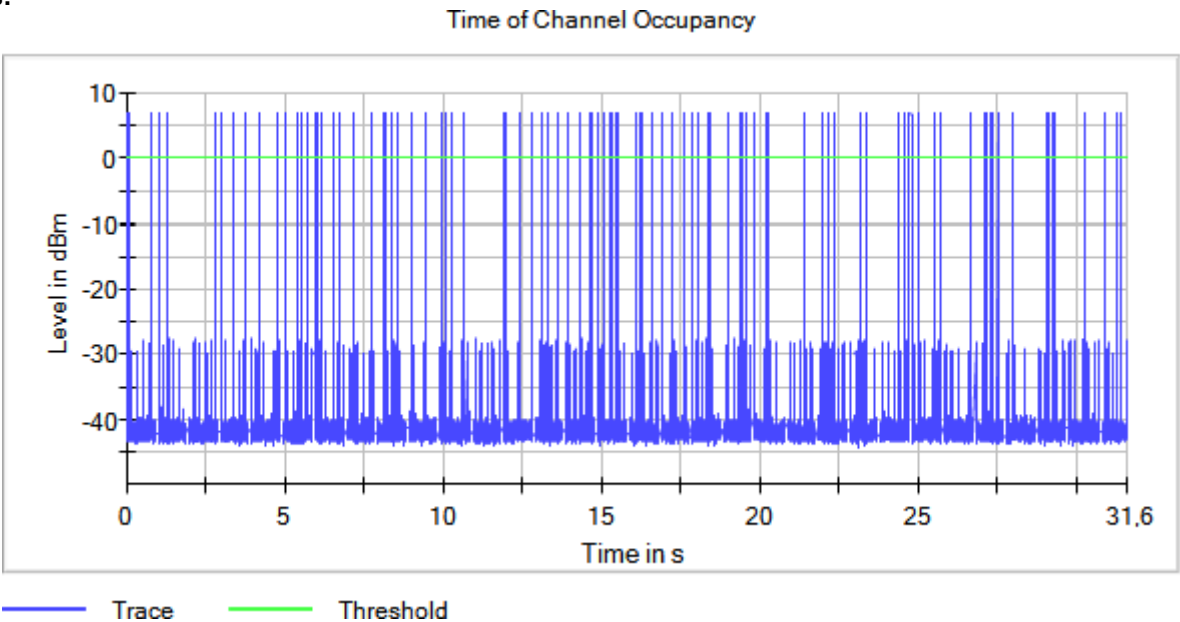
Images:



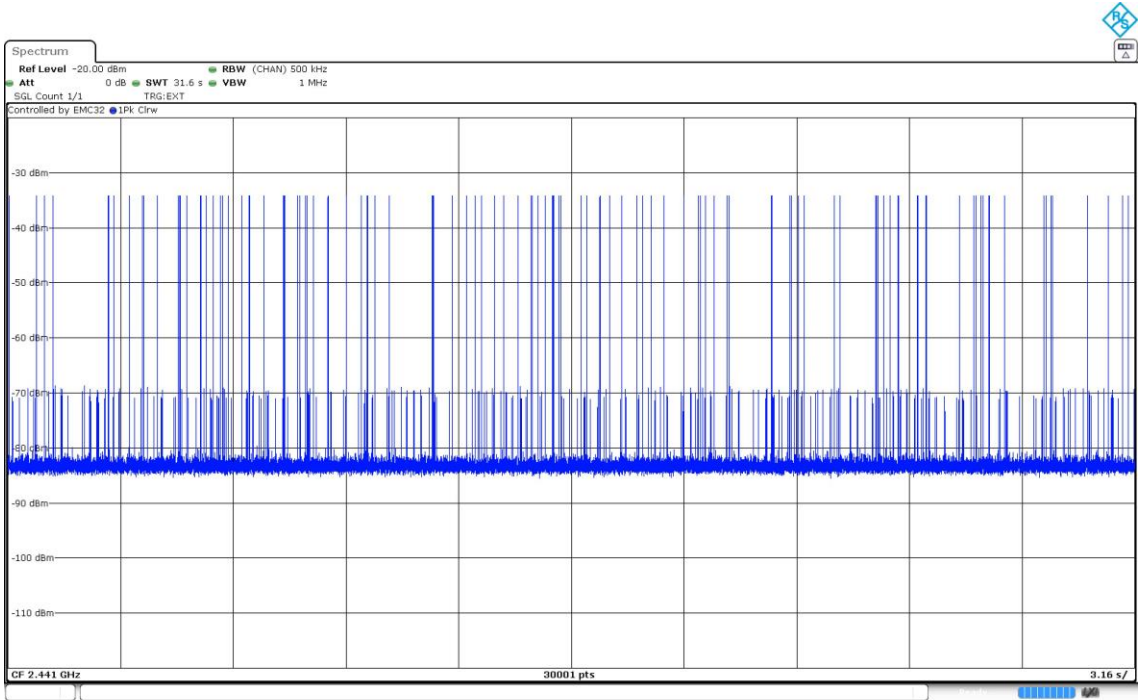


Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:







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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHp | Avg COT (ms) |
|-------------------------------------------------|----------|------|-----|--------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 92  | 114.54       |
|                                                 |          |      | 89  | 133.48       |
|                                                 |          |      | 97  | 141.04       |

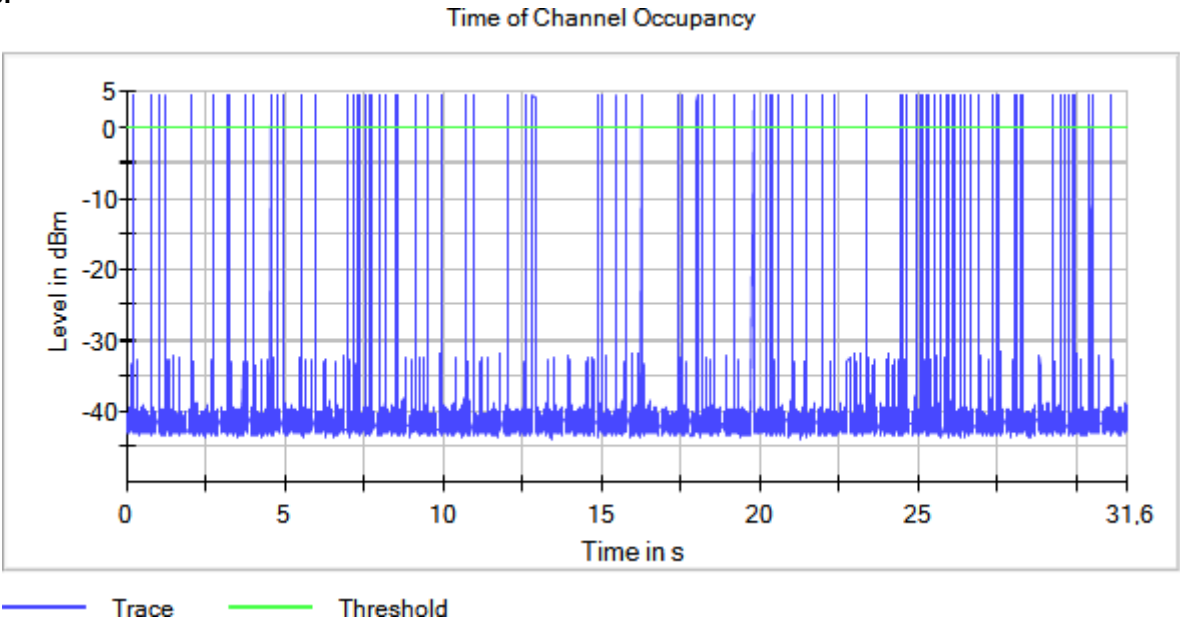
Verdict

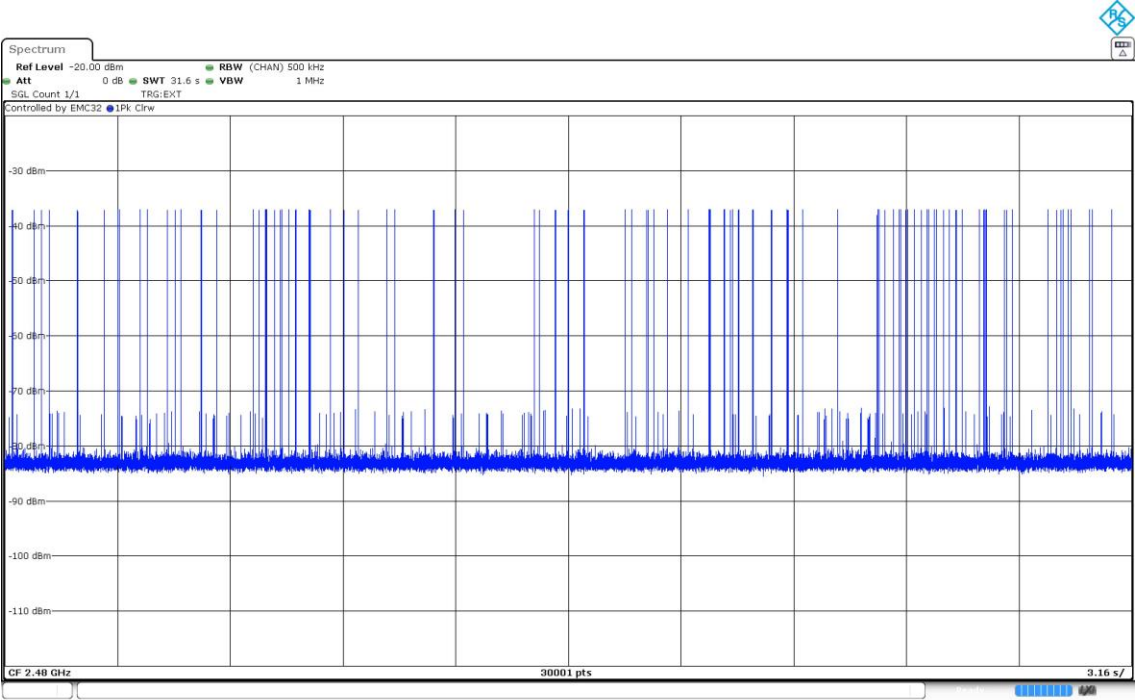
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    MIMO Mode = SISO  
Active Port = 1

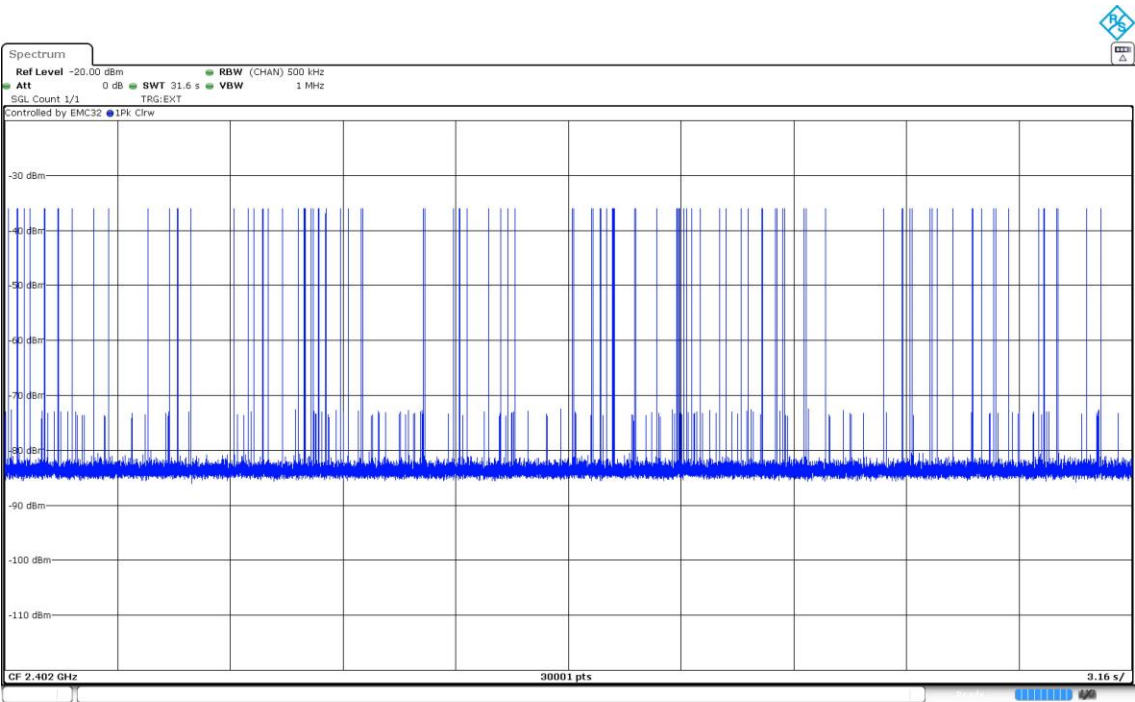
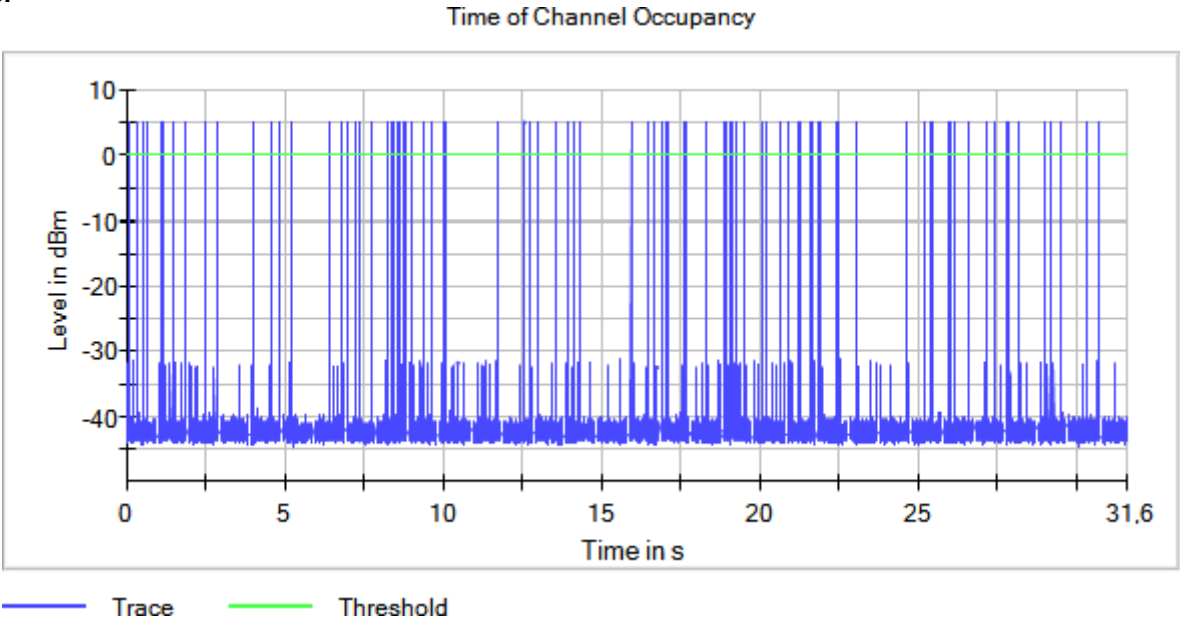
Images:





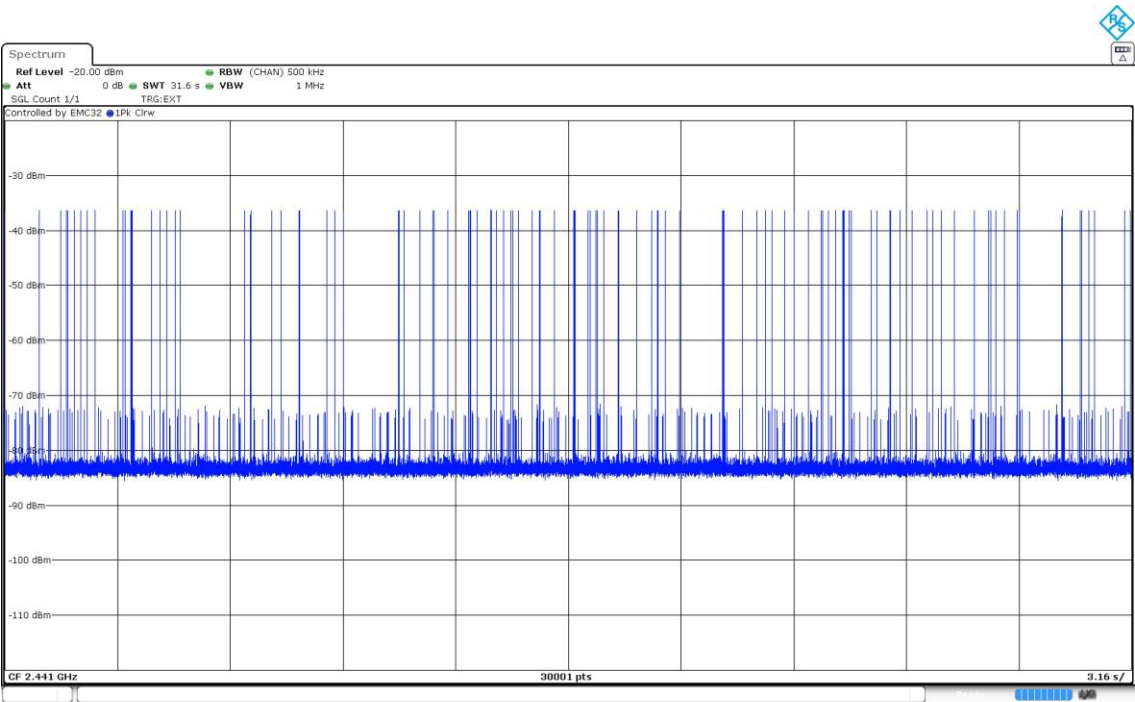
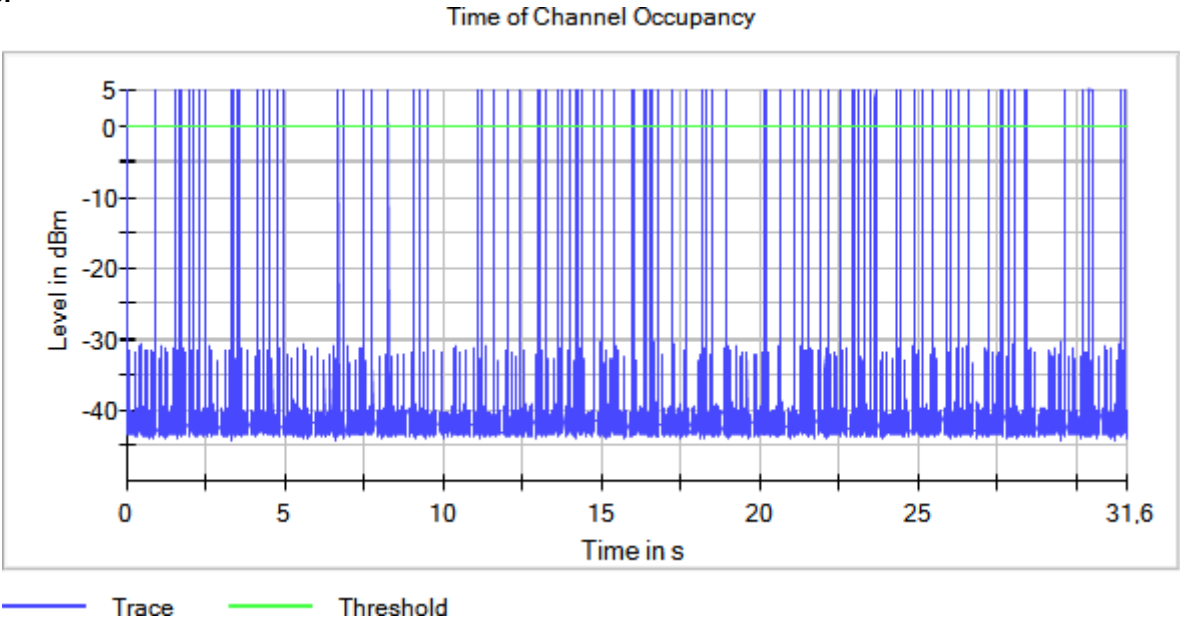
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHp | Avg COT (ms) |
|-------------------------------------------------|----------|------|-----|--------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 99  | 161.42       |
|                                                 |          |      | 101 | 157.57       |
|                                                 |          |      | 95  | 199.58       |

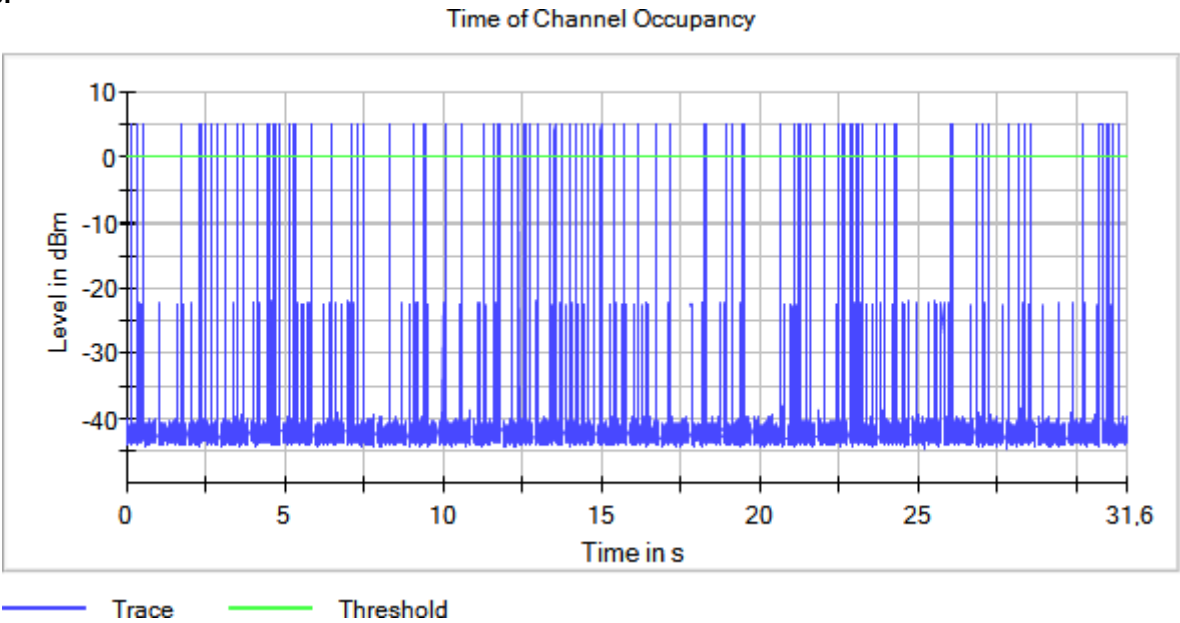
Verdict

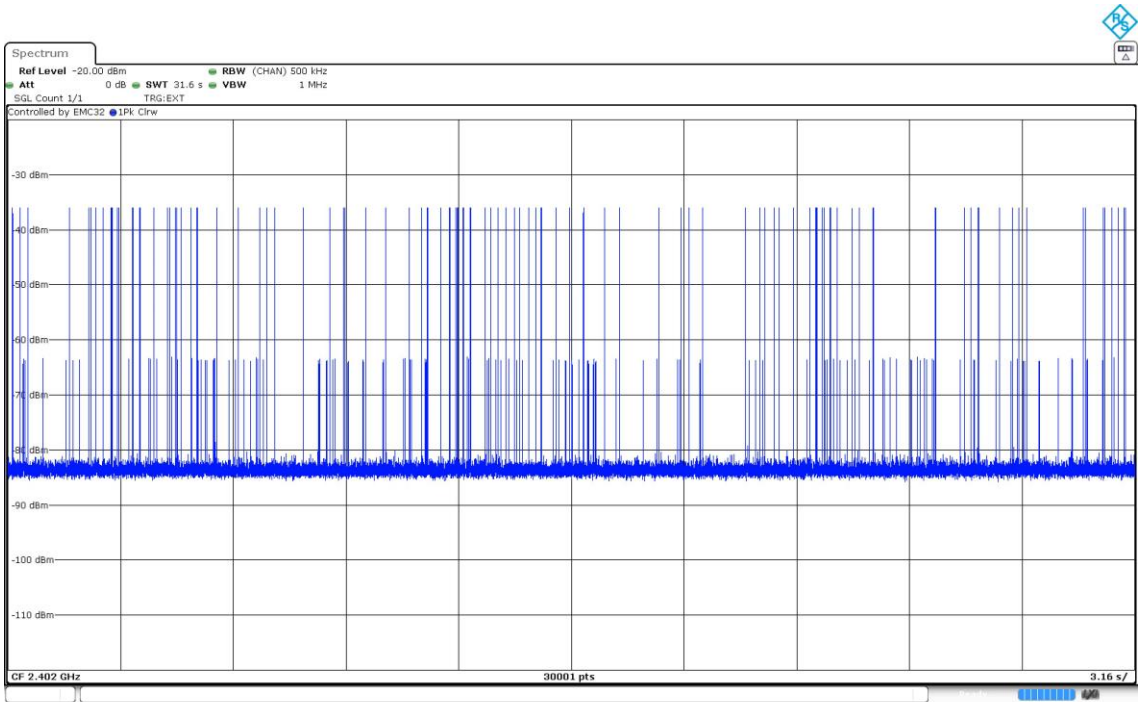
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    MIMO Mode = SISO  
Active Port = 1

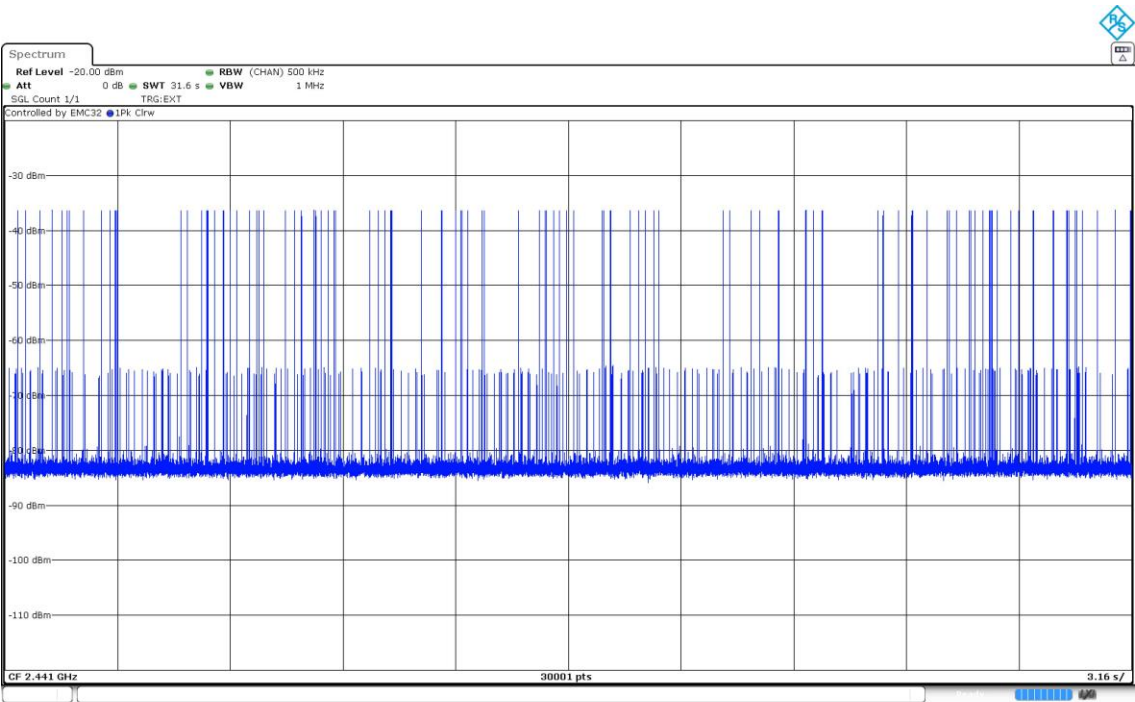
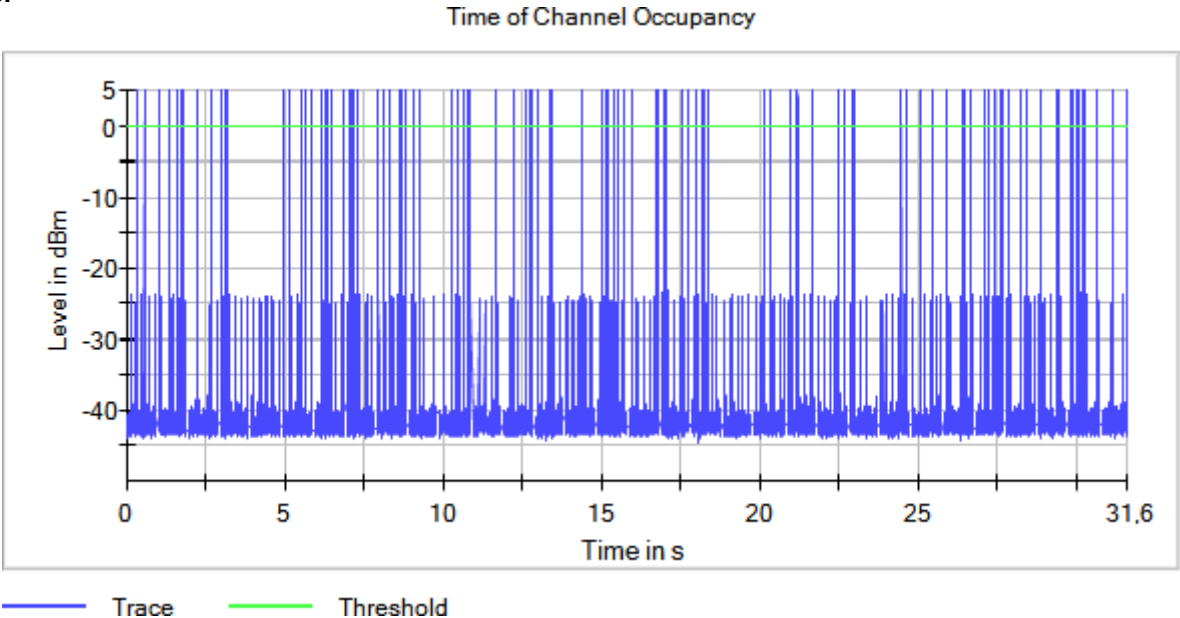
Images:





Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    MIMO Mode = SISO  
Active Port = 1

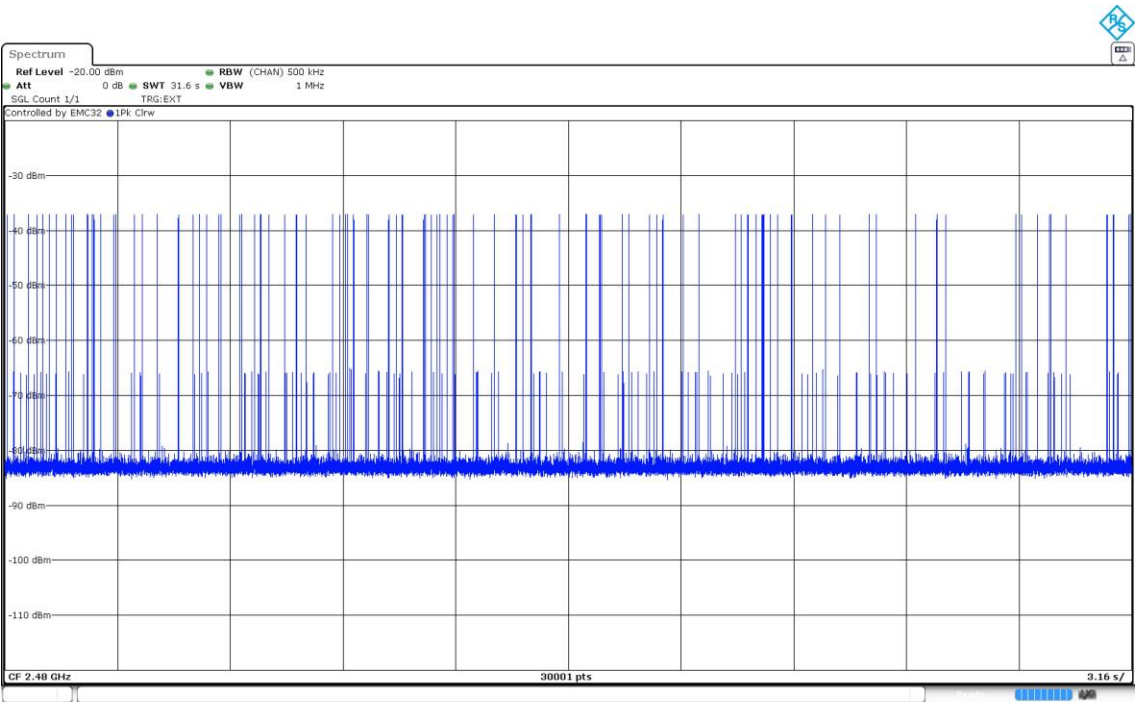
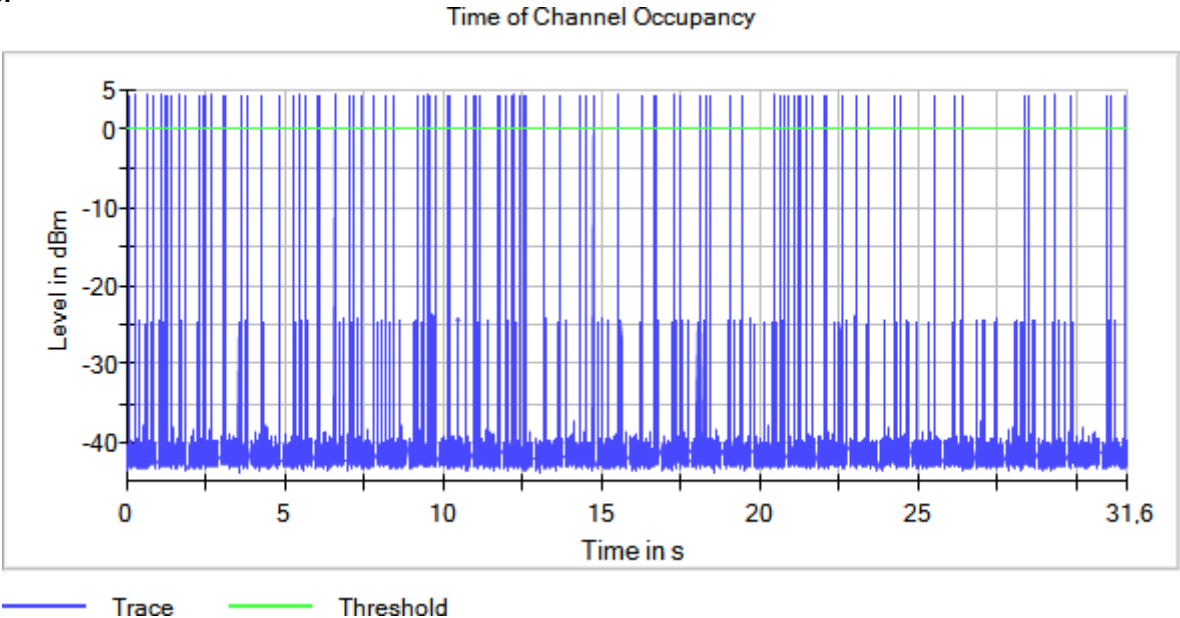
Images:





Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



RSS-247 5.1 (d) / FCC 15.247 (a) (1) (iii) [NHC] Number of hopping channels

Limits

Frequency hopping system in the 2400-2483.5 MHz band shall use at least 15 channels.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHC |
|-------------------------------------------------|----------|------|-----|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 79  |

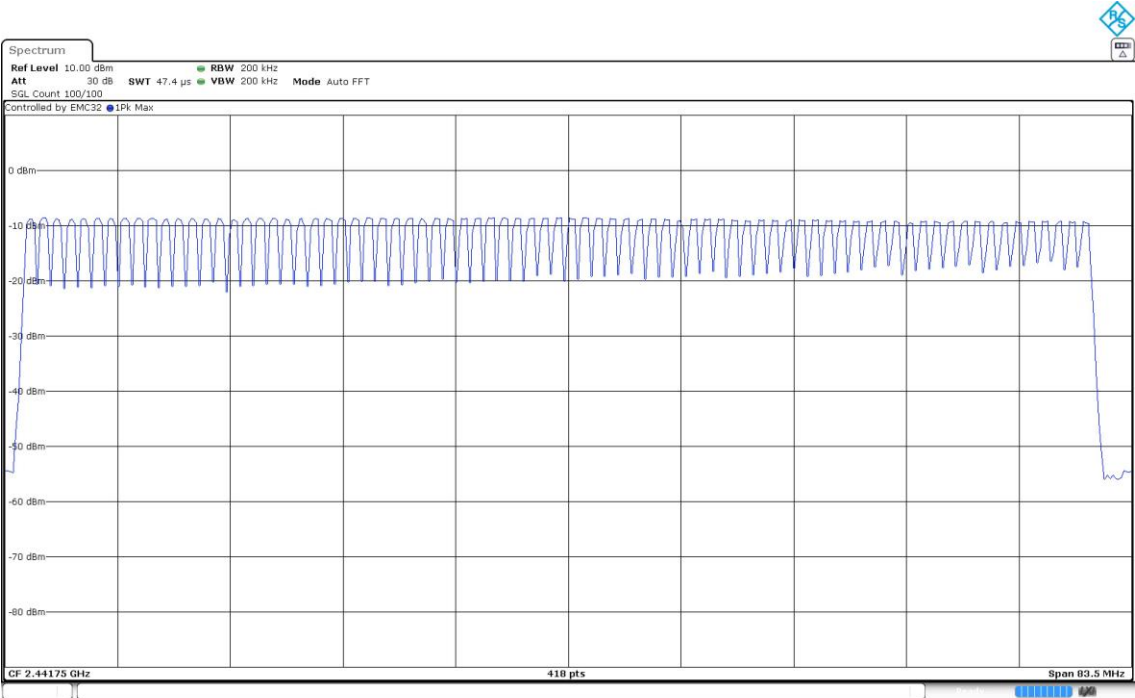
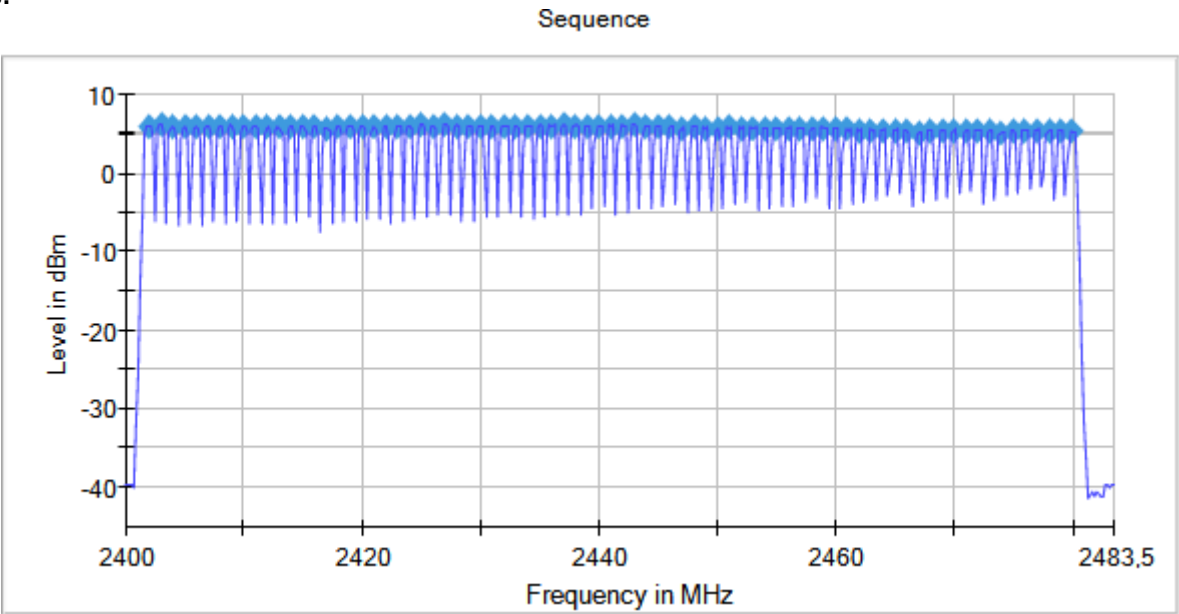
Verdict

Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHC |
|-------------------------------------------------|----------|------|-----|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 79  |

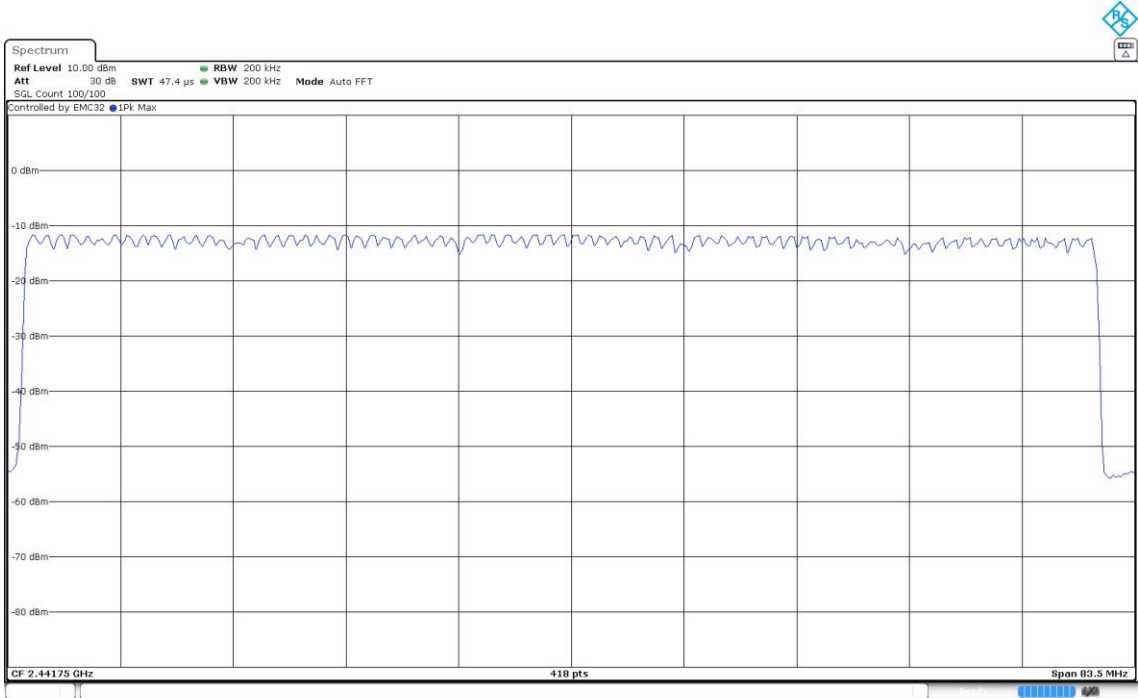
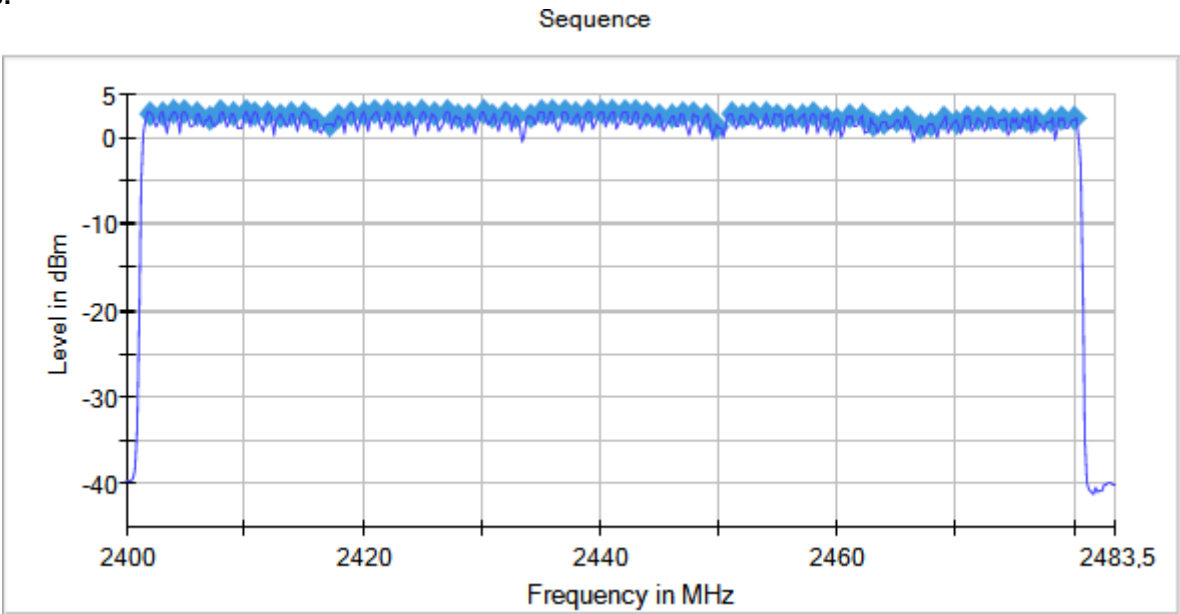
Verdict

Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Port | NHC |
|-------------------------------------------------|----------|------|-----|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 1    | 79  |

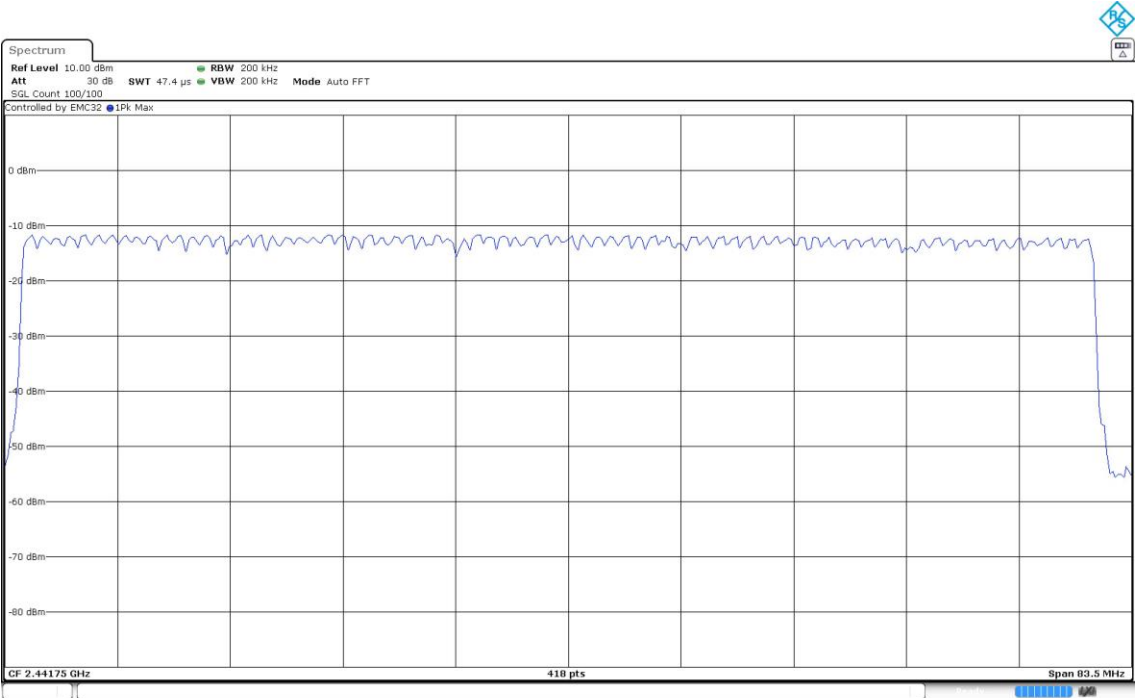
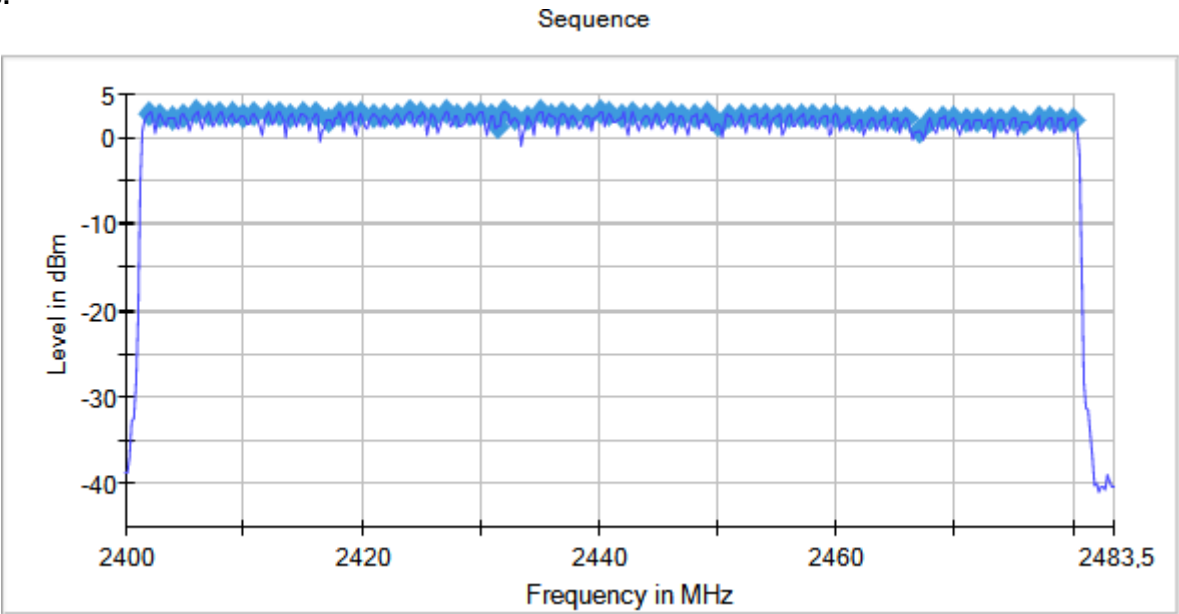
Verdict

Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    MIMO Mode = SISO  
Active Port = 1

Images:



# RSS-247 5.4 (b) / FCC 15.247 (b) (1) [Pkcp] Maximum Peak Conducted output power

**Limits**

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels: 1 watt (30 dBm).

RSS-247:

The e.i.r.p. shall not exceed 4 W (RSS-247).

**Results**

The maximum peak conducted output power level of the fundamental emission was measured according to clause 7.8.5 “Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices” of ANSI C63.10-2013.

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

Maximum Declared Antenna Gain: +1.91 dBi

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Modulation: BT (GFSK 1-DH5)

MIMO Mode: SISO

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Peak Power (dBm) | EIRP (dBm) |
|-------------------------------------------------|----------|------------|------|------------------|------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 6.2640           | 8.1740     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2441.00000 | 1    | 6.2290           | 8.1390     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2480.00000 | 1    | 5.5980           | 7.5080     |

**Verdict**

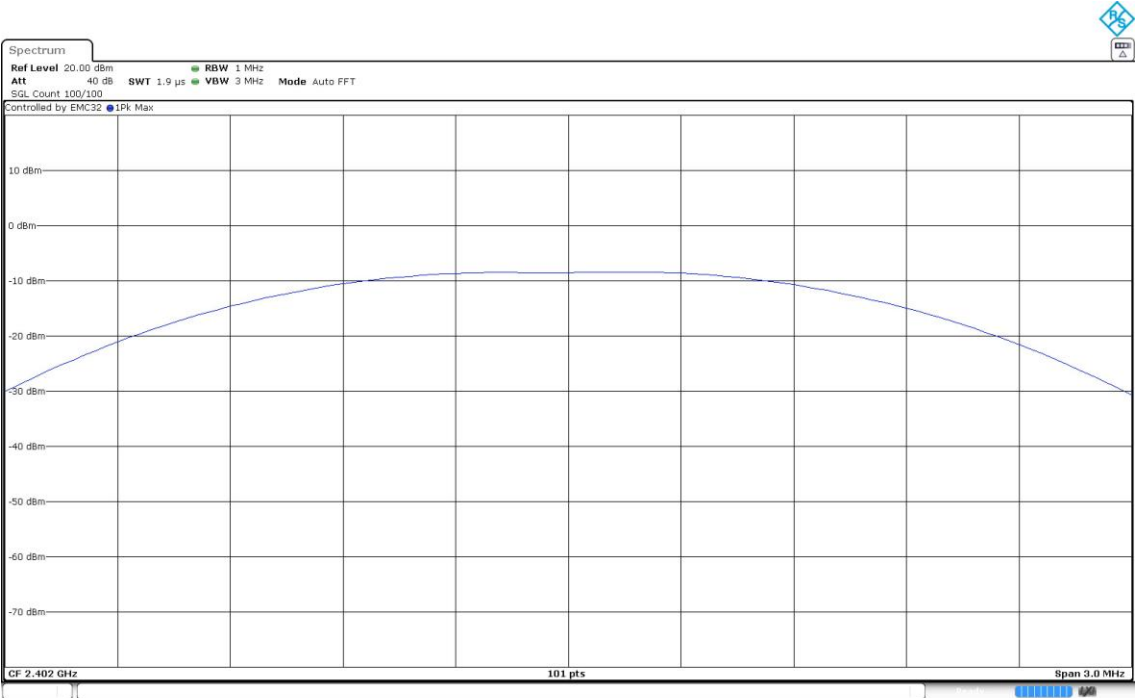
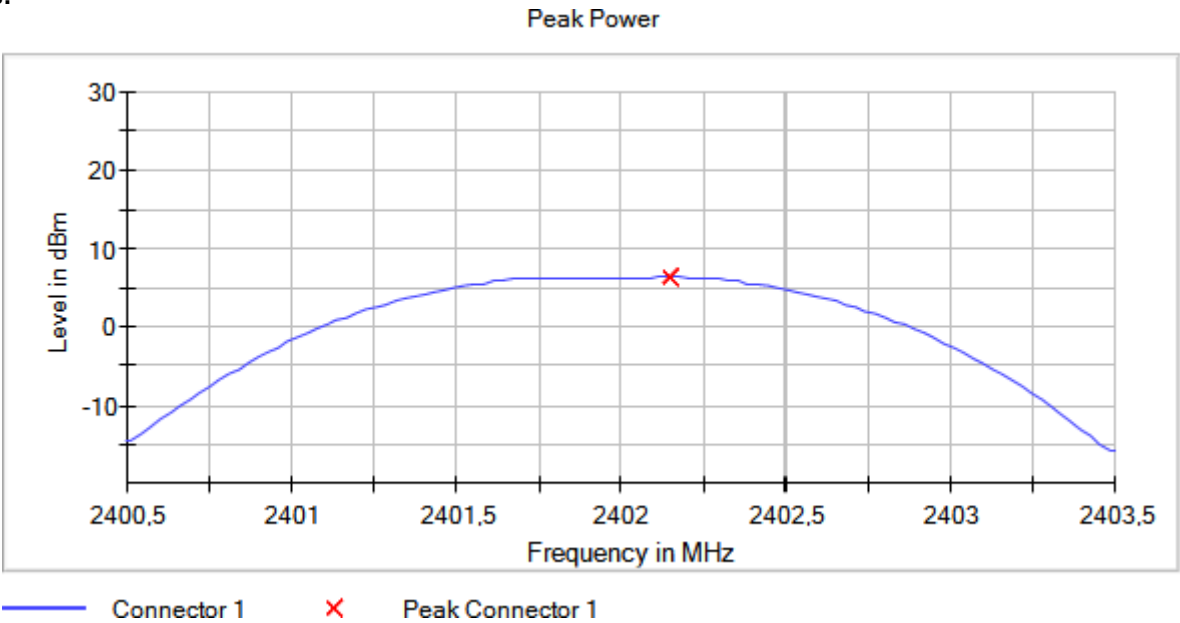
Pass



Attachments

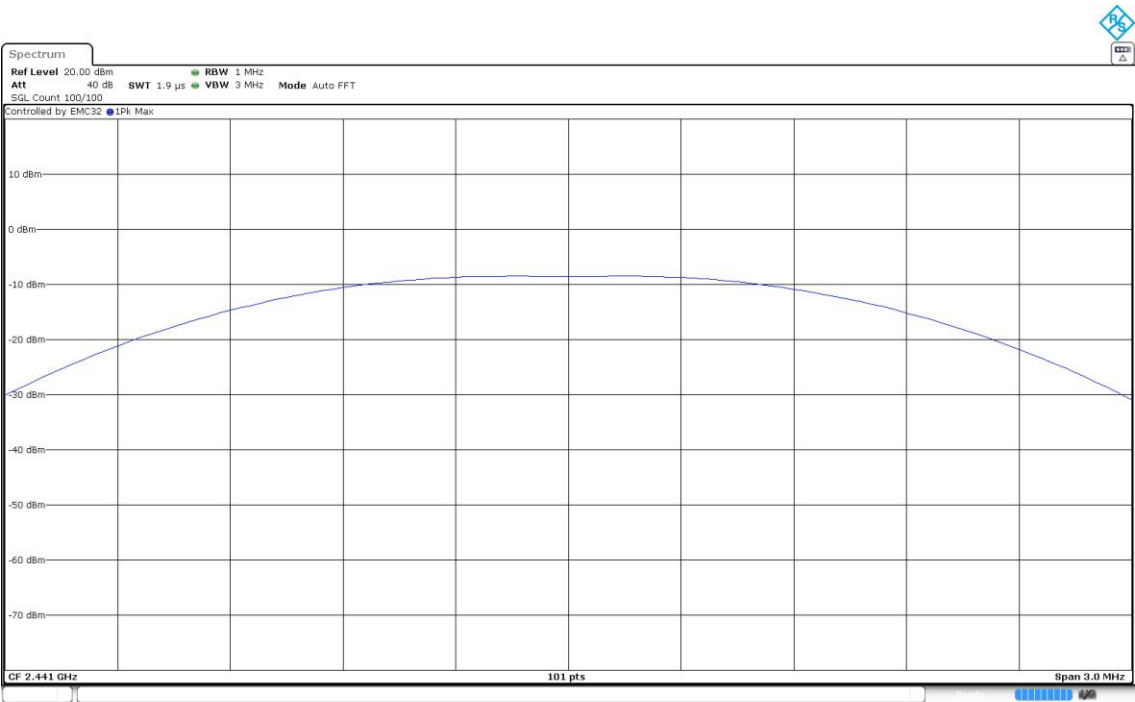
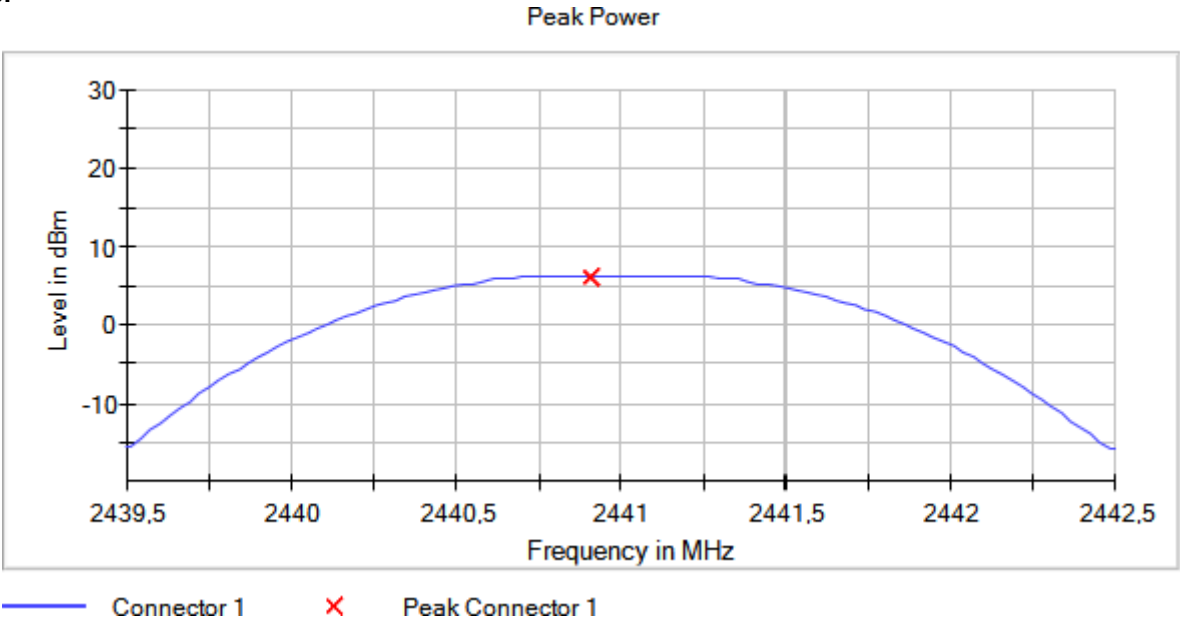
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)    Frequency MHz = 2402.00000  
MIMO Mode = SISO    Active Port = 1

Images:



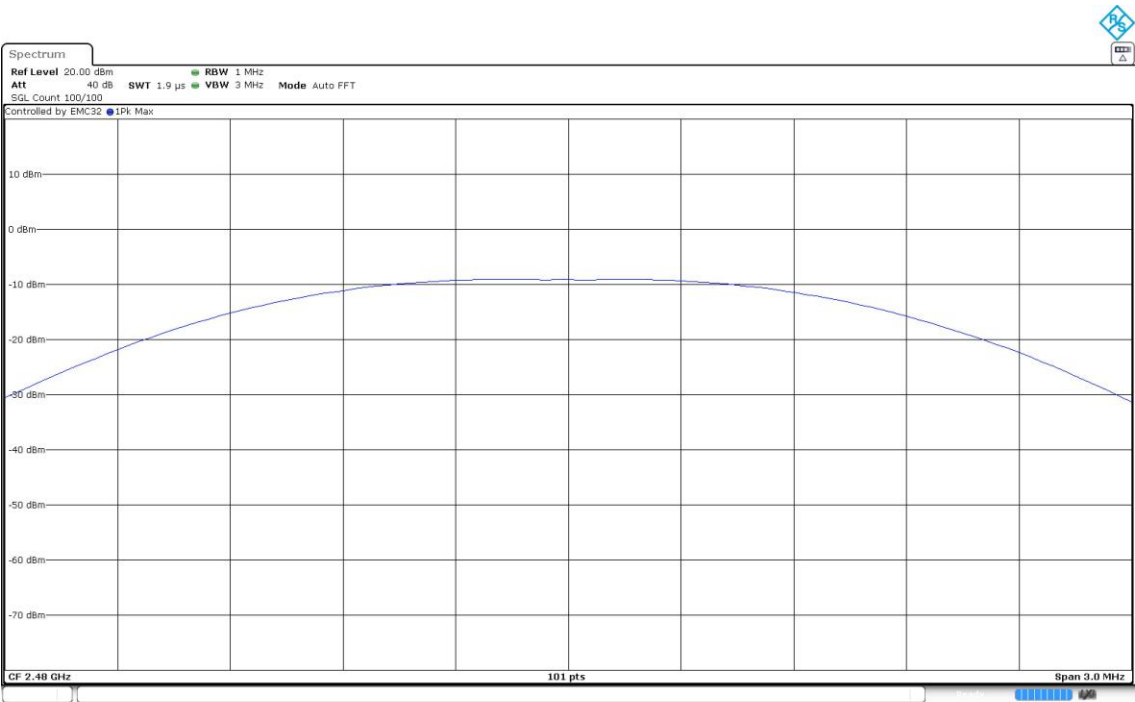
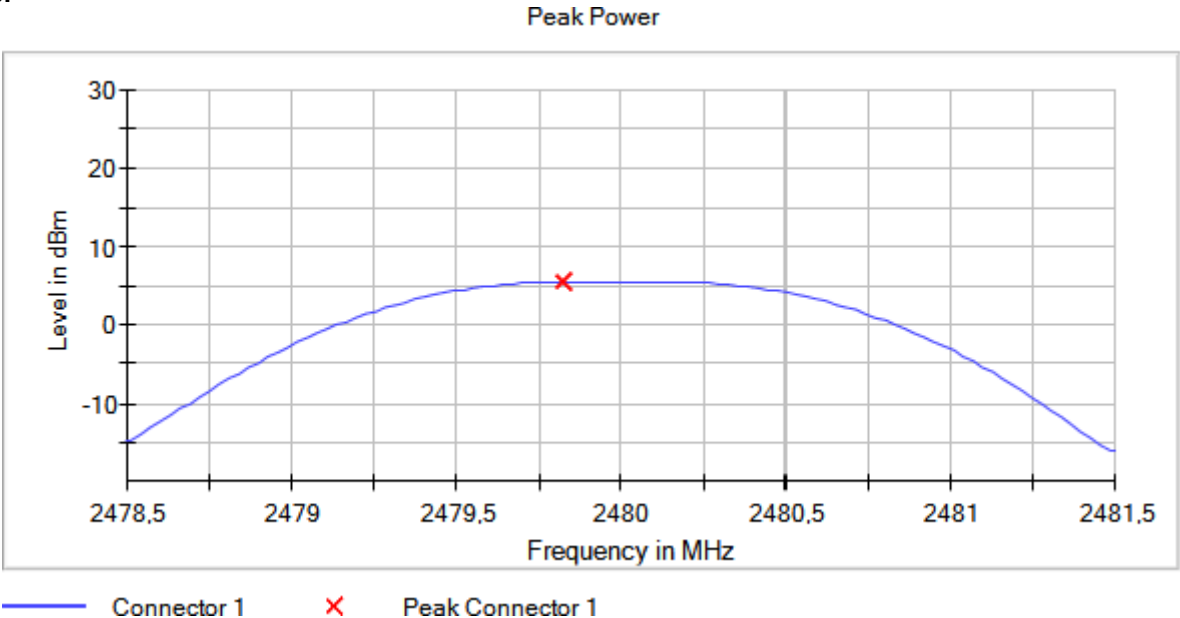
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (GFSK 1-DH5)      Frequency MHz = 2480.00000  
MIMO Mode = SISO      Active Port = 1

Images:



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

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Peak Power (dBm) | EIRP (dBm) |
|-------------------------------------------------|----------|------------|------|------------------|------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 5.6440           | 7.5540     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2441.00000 | 1    | 5.3490           | 7.2590     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2480.00000 | 1    | 4.7890           | 6.6990     |

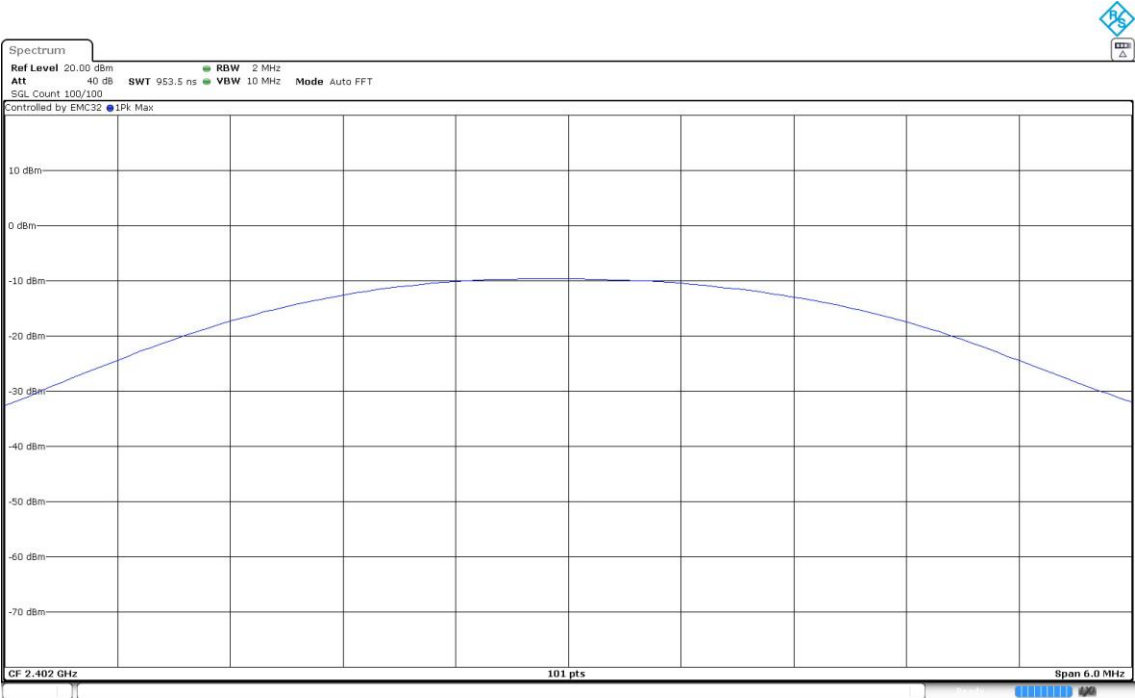
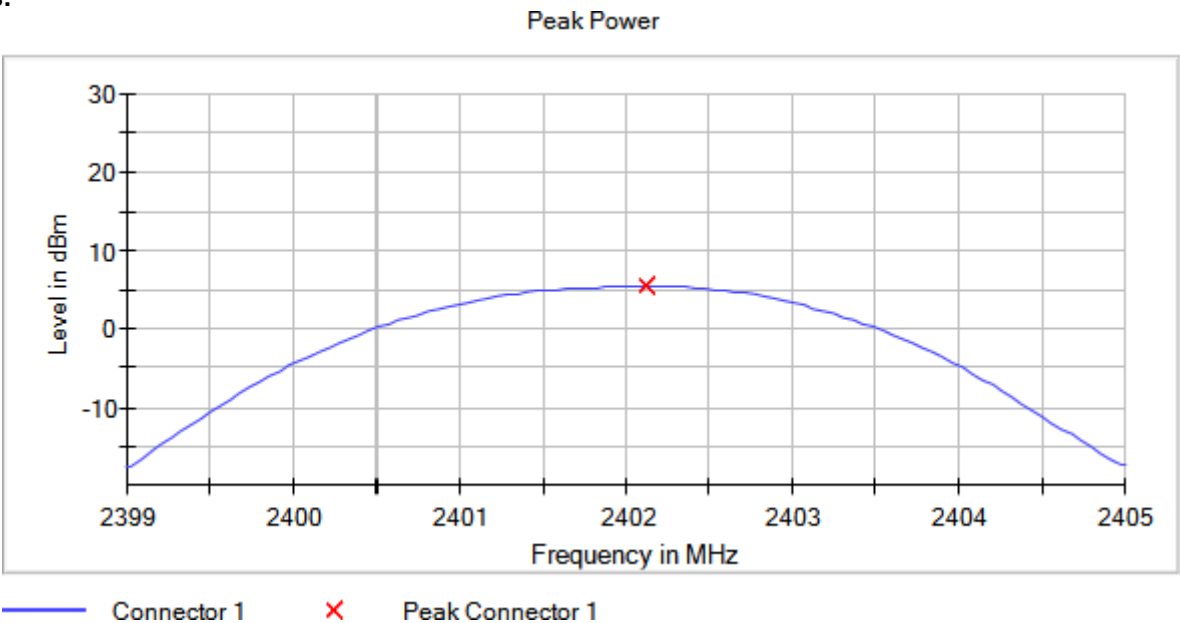
Verdict

Pass

Attachments

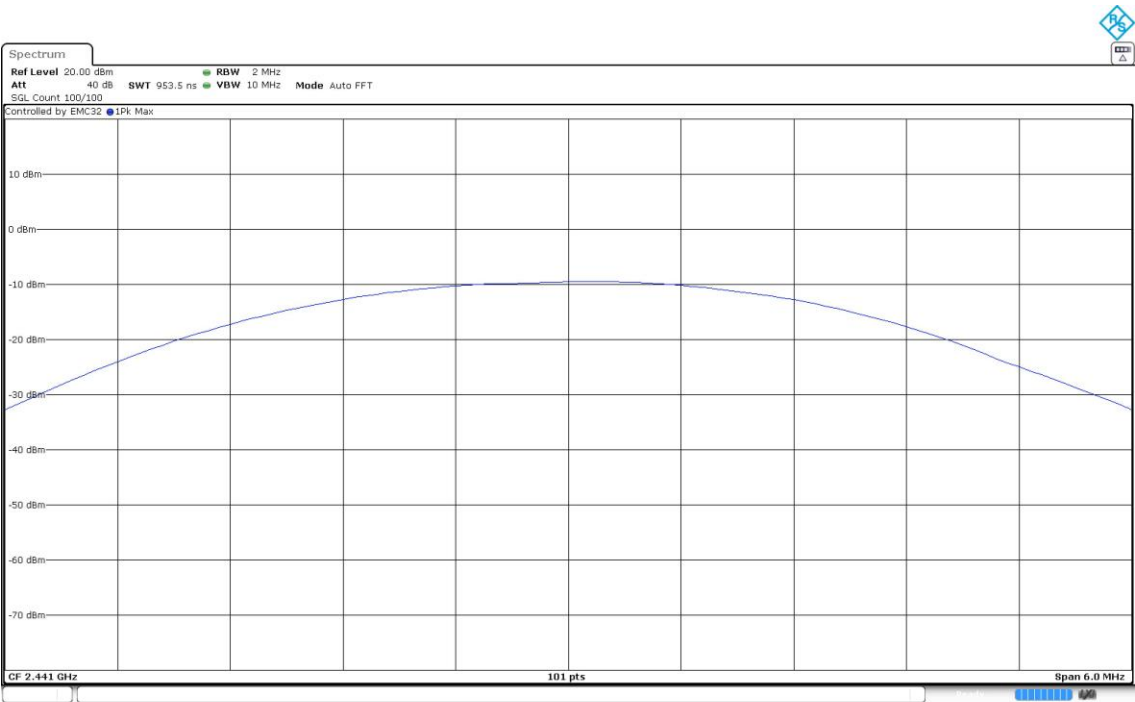
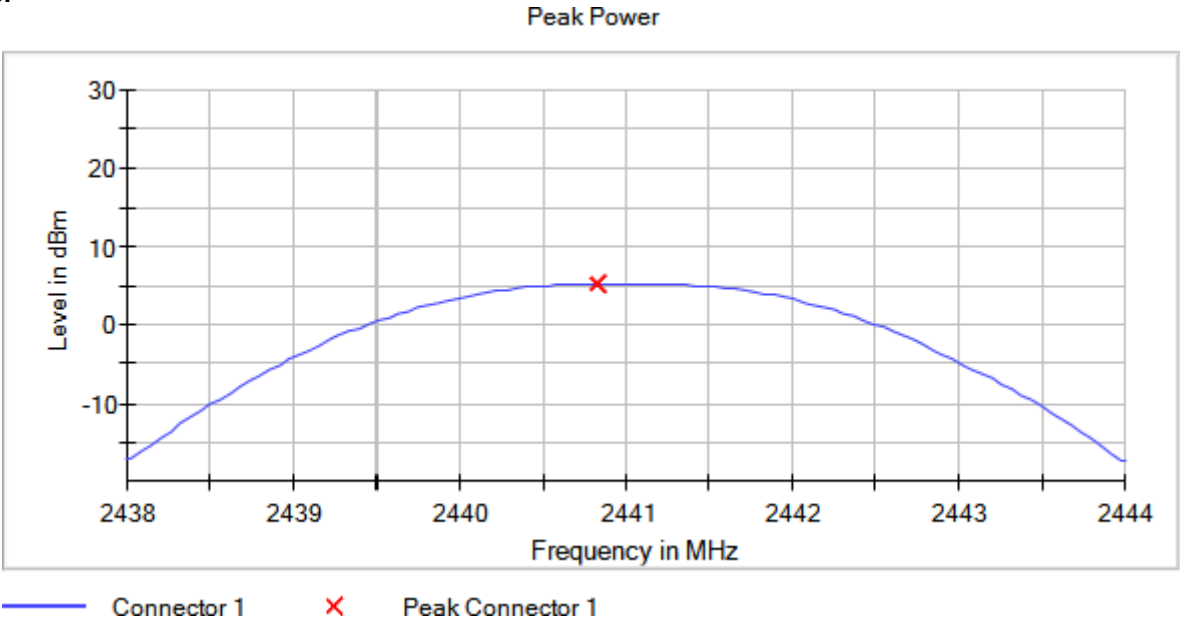
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)      Frequency MHz = 2402.00000  
MIMO Mode = SISO      Active Port = 1

Images:



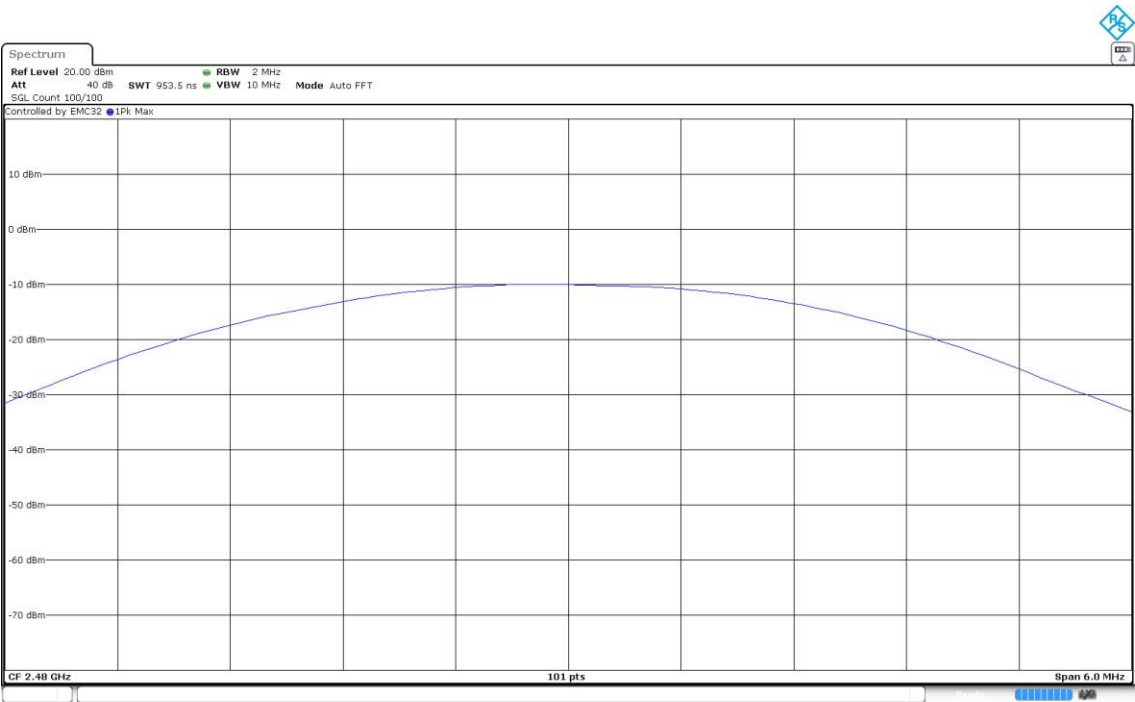
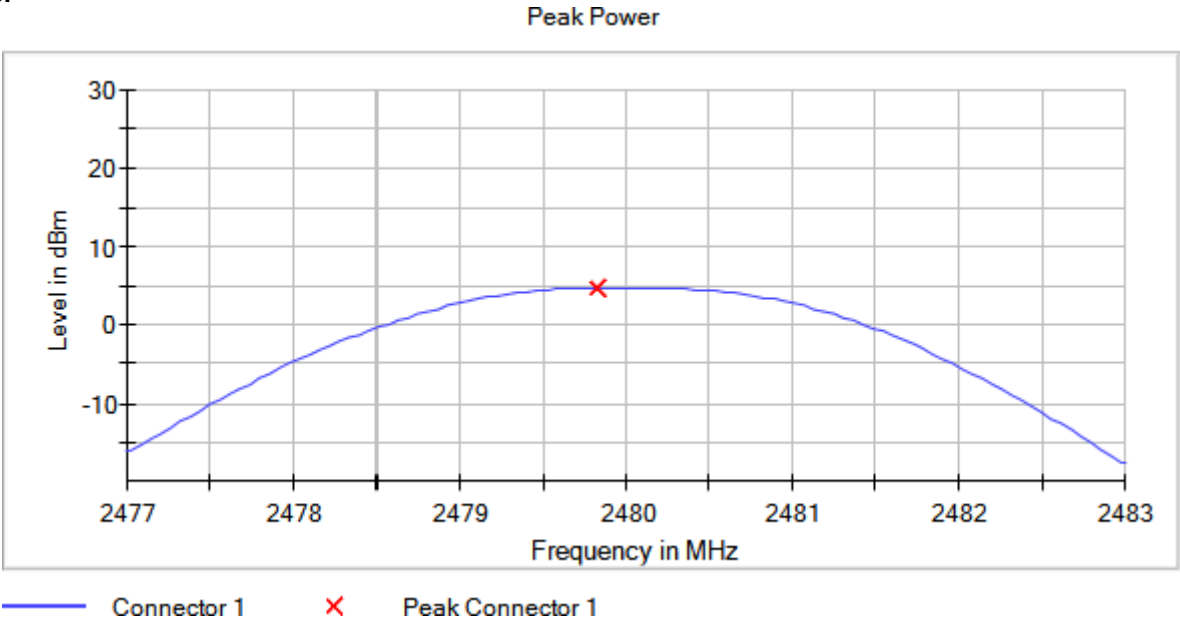
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (Pi/4 DQPSK 2-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



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

Images:



Modulation: BT (8DPSK 3-DH5)

MIMO Mode: SISO

Results

| Equipment                                       | BW (MHz) | Freq (MHz) | Port | Peak Power (dBm) | EIRP (dBm) |
|-------------------------------------------------|----------|------------|------|------------------|------------|
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2402.00000 | 1    | 5.4610           | 7.3710     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2441.00000 | 1    | 5.5540           | 7.4640     |
| Frequency Hopping Spread Spectrum systems (DSS) | 1        | 2480.00000 | 1    | 5.0980           | 7.0080     |

Verdict

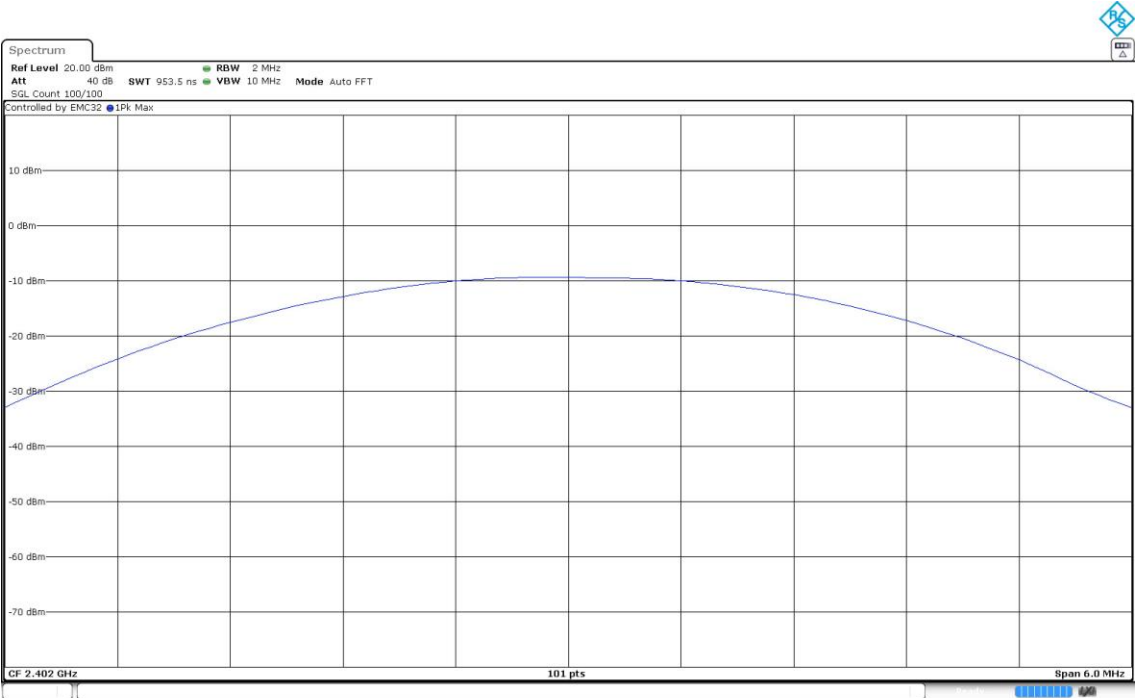
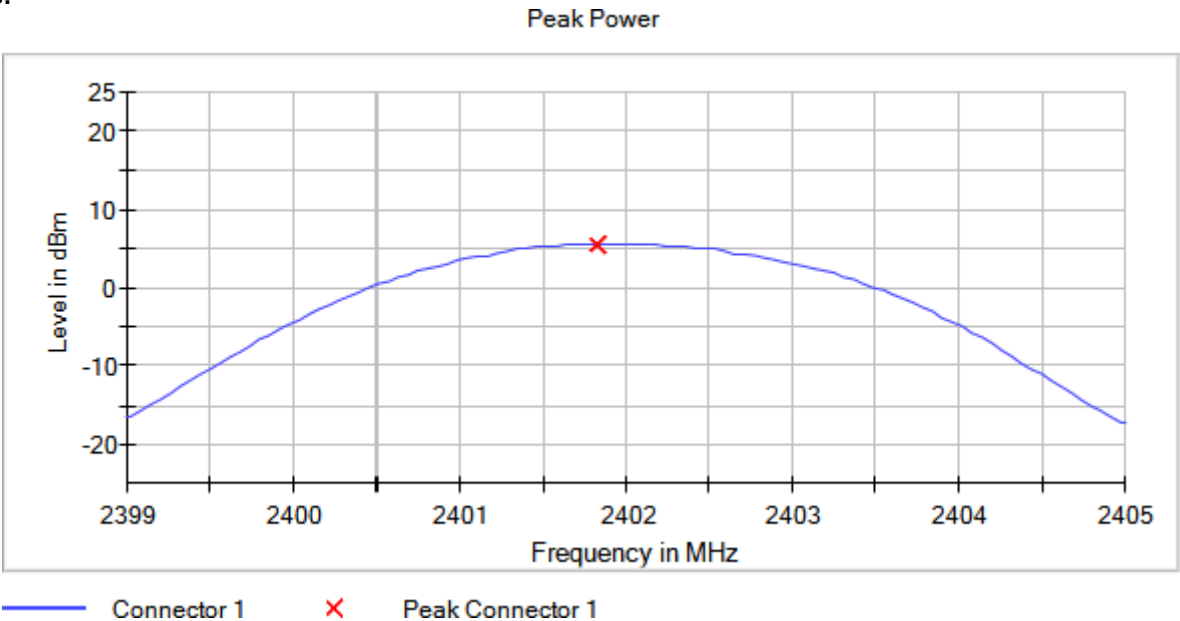
Pass



Attachments

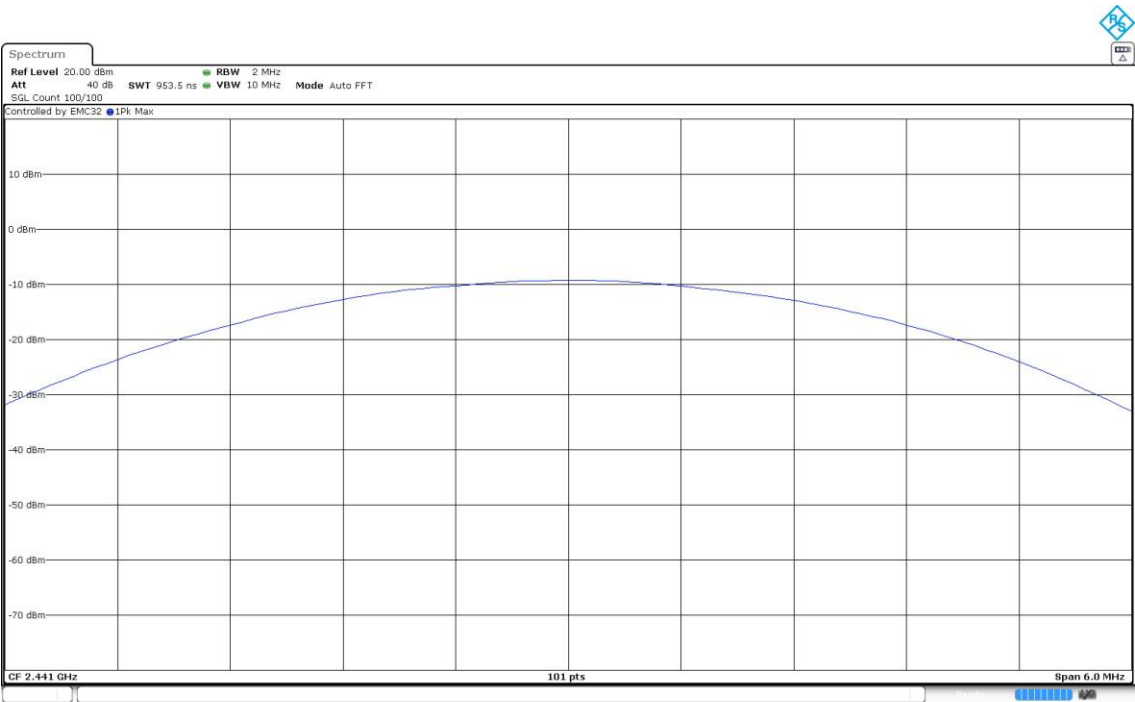
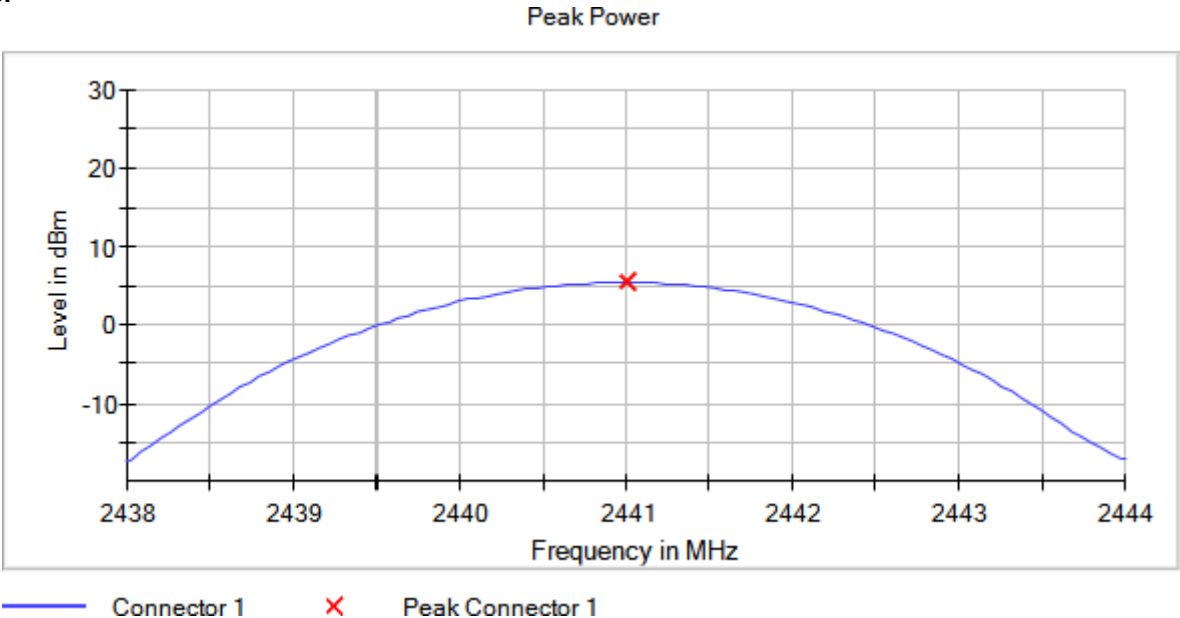
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5) Frequency MHz = 2402.00000  
MIMO Mode = SISO Active Port = 1

Images:



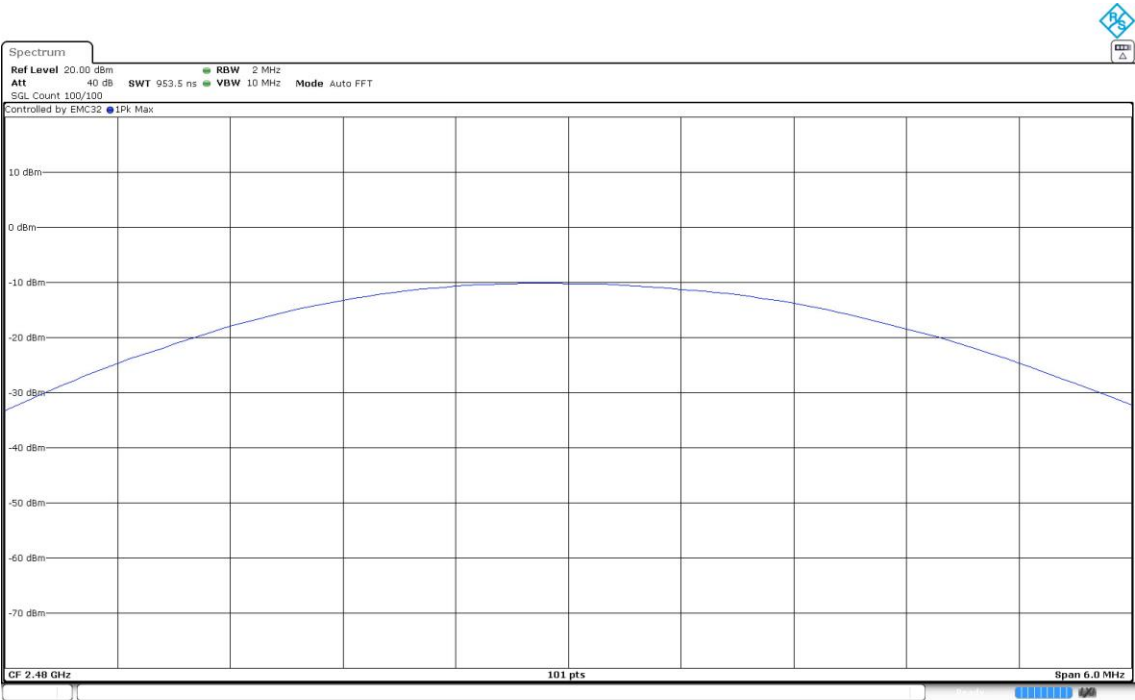
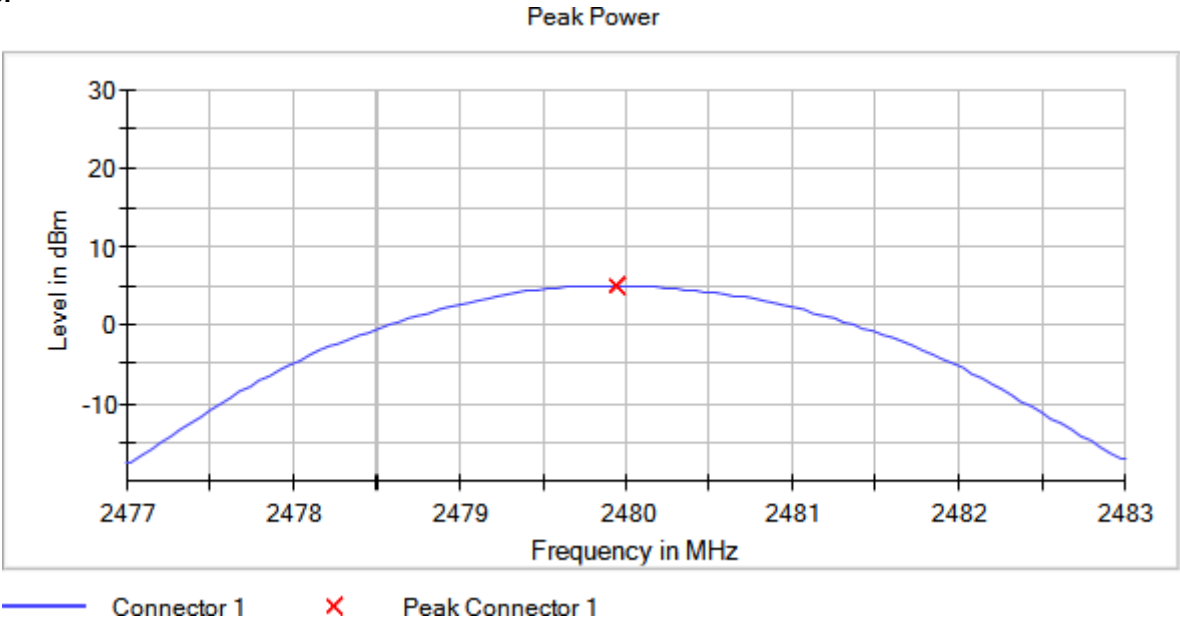
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)      Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)      Frequency MHz = 2441.00000  
MIMO Mode = SISO      Active Port = 1

Images:



Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)    Bandwidth MHz = 1  
Modulation = BT (8DPSK 3-DH5)    Frequency MHz = 2480.00000  
MIMO Mode = SISO    Active Port = 1

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)

MIMO Mode: SISO

### **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