

# Measurement Results

No.1-1330/20-01-12\_Annex\_MR

---

## Test logging

This document is electronically signed and valid without handwritten signature.  
For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorized:

---

---

**Jörg Warken**  
Lab Manager  
Radio Communications

## Table of Content

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| EUT Information                                                                     | 3  |
| Common2G4 Peak OP 3MHz/3MHz ~ BT Classic Basic rate                                 | 4  |
| FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate    | 8  |
| FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate             | 12 |
| FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate           | 17 |
| FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate                        | 20 |
| FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate                       | 30 |
| Common2G4 Peak OP 3MHz/3MHz ~ BT Classic EDR Pi/4DQPSK                              | 37 |
| FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi/4DQPSK | 41 |
| FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi/4DQPSK                     | 45 |
| FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi/4DQPSK                    | 55 |
| Common2G4 Peak OP 3MHz/3MHz ~ BT Classic EDR 8DPSK                                  | 62 |
| FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK     | 66 |
| FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK                         | 70 |
| FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK                        | 80 |

## EUT Information

| EUT DEFINITION       |                     |
|----------------------|---------------------|
| Manufacturer         | LEICA               |
| Type                 | Digital Camera 2416 |
| Serial Number        | NI                  |
| Setup Number         | 1.0                 |
| Version SW           | NI                  |
| Version FW           | NI                  |
| Version HW           | NI                  |
| Comment 1            |                     |
| Comment 2            |                     |
| Temperature [°C] Min | -10                 |
| Temperature [°C] Nom | 20                  |
| Temperature [°C] Max | 45                  |
| Voltage [V] Min      | 7.4                 |
| Voltage [V] Nom      | 7.4                 |
| Voltage [V] Max      | 7.4                 |

## Common2G4 Peak OP 3MHz/3MHz ~ BT Classic Basic rate

| Test References                   |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:38:36                                           |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                     |
| System Version                    | 3.0.1.0                                                       |
| Test Specification                | None                                                          |
| Test Method                       |                                                               |
| TC Version                        | 0.0.1                                                         |
| My Description                    | Peak Output Power conducted 3MHz/3MHz - BT Classic Basic Rate |
| Add. Information                  |                                                               |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

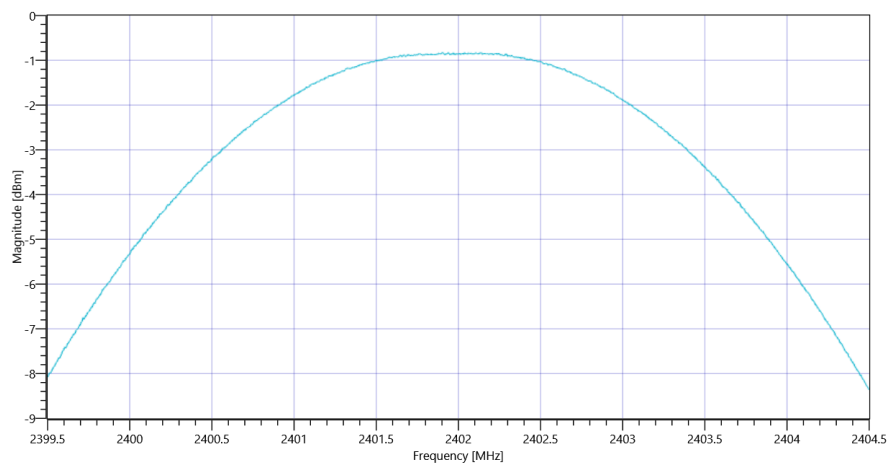
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.80    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.20   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2399.500   2404.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -0.83    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.826038 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2401.905 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic Basic rate

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

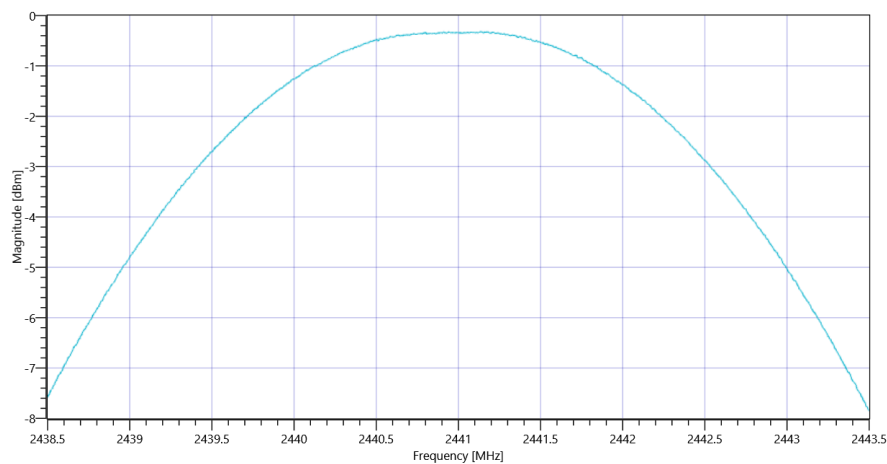
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.34    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.66   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2438.500   2443.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -0.32    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.928966 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2441.135 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic Basic rate

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

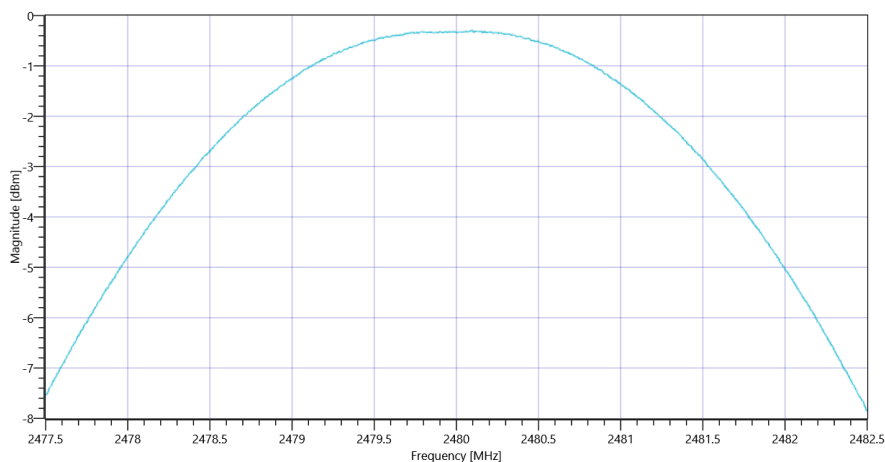
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.30    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.900 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.70   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2477.500   2482.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -0.29    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.935406 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2480.09  | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic Basic rate

General verdict

PASS

## FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate

| Test References                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:40:11                                                         |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                                   |
| System Version                    | 3.0.1.0                                                                     |
| Test Specification                | FCC Part 15.247                                                             |
| Test Method                       |                                                                             |
| TC Version                        | 0.0.1                                                                       |
| My Description                    | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate |
| Add. Information                  |                                                                             |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

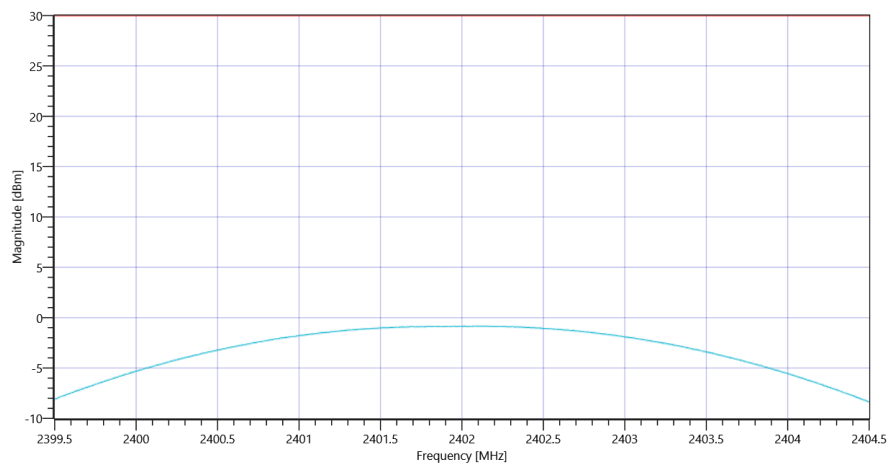
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.84    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.16   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2399.500   2404.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -0.84    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.824138 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2402.015 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

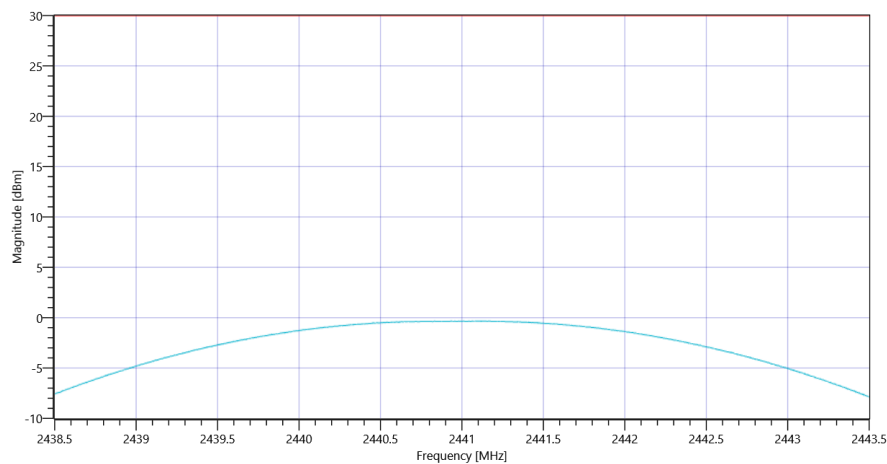
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.42    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2441.100 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.58   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2438.500   2443.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -0.34    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.924698 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2441.105 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

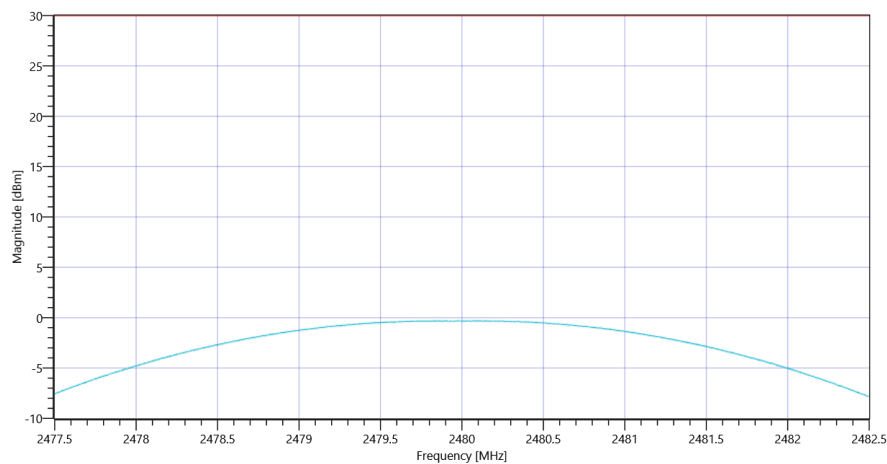
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.38    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.100 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.62   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2477.500   2482.500    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -0.32    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.928966 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2480.095 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate

General verdict

PASS

## FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate

| Test References                   |                                                                    |
|-----------------------------------|--------------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:41:44                                                |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                          |
| System Version                    | 3.0.1.0                                                            |
| Test Specification                | FCC Part 15.247                                                    |
| Test Method                       |                                                                    |
| TC Version                        | 0.0.1                                                              |
| My Description                    | FCC 15.247 Number Of Hopping Channels FHSS - BT Classic Basic Rate |
| Add. Information                  |                                                                    |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 2402                |
| Frequency mid to test                            | False   Freq [MHz] 2441                |
| Frequency high to test                           | False   Freq [MHz] 2480                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX hopping MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.21    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2449.090 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.79   10.8   10       |
| Start [MHz]   Stop [MHz]                             | 2399.000   2483.000    |
| RBW [MHz]   VBW [MHz]                                | 0.200000   0.500000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1   10000   1001   SWE |

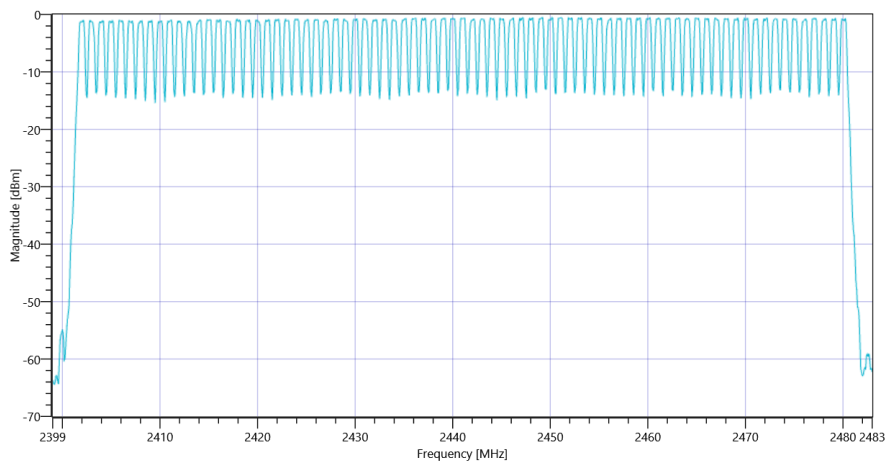
### RESULT

| Test Description       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------|-------------|-------------|----------|------|---------|
| Hopp channel (rounded) | ---         | ---         | 2402     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2403     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2404     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2405     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2406     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2407     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2408     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2409     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2410     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2411     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2412     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2413     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2414     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2415     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2416     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2417     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2418     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2419     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2420     | MHz  | INFO    |

| RESULT                 |             |             |          |      |         |
|------------------------|-------------|-------------|----------|------|---------|
| Test Description       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
| Hopp channel (rounded) | ---         | ---         | 2421     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2422     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2423     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2424     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2425     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2426     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2427     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2428     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2429     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2430     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2431     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2432     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2433     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2434     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2435     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2436     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2437     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2438     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2439     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2440     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2441     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2442     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2443     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2444     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2445     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2446     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2447     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2448     | MHz  | INFO    |

| RESULT                 |             |             |          |      |         |
|------------------------|-------------|-------------|----------|------|---------|
| Test Description       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
| Hopp channel (rounded) | ---         | ---         | 2449     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2450     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2451     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2452     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2453     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2454     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2455     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2456     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2457     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2458     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2459     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2460     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2461     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2462     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2463     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2464     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2465     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2466     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2467     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2468     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2469     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2470     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2471     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2472     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2473     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2474     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2475     | MHz  | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2476     | MHz  | INFO    |

| RESULT                 |             |             |          |        |         |
|------------------------|-------------|-------------|----------|--------|---------|
| Test Description       | Lower Limit | Upper Limit | Measured | Unit   | Verdict |
| Hopp channel (rounded) | ---         | ---         | 2477     | MHz    | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2478     | MHz    | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2479     | MHz    | INFO    |
| Hopp channel (rounded) | ---         | ---         | 2480     | MHz    | INFO    |
| Σ Hopping channels     | 15          | ---         | 79       | Number | PASS    |



FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate

General verdict

PASS

## FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate

### Test References

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:42:37                                                  |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                            |
| System Version                    | 3.0.1.0                                                              |
| Test Specification                | FCC Part 15.247                                                      |
| Test Method                       |                                                                      |
| TC Version                        | 0.0.1                                                                |
| My Description                    | FCC 15.247 Carrier Frequency Separation FHSS - BT Classic Basic Rate |
| Add. Information                  |                                                                      |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 2402                |
| Frequency mid to test                            | False   Freq [MHz] 2441                |
| Frequency high to test                           | False   Freq [MHz] 2480                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX hopping MHz

### RESULT: Reference Power cond.

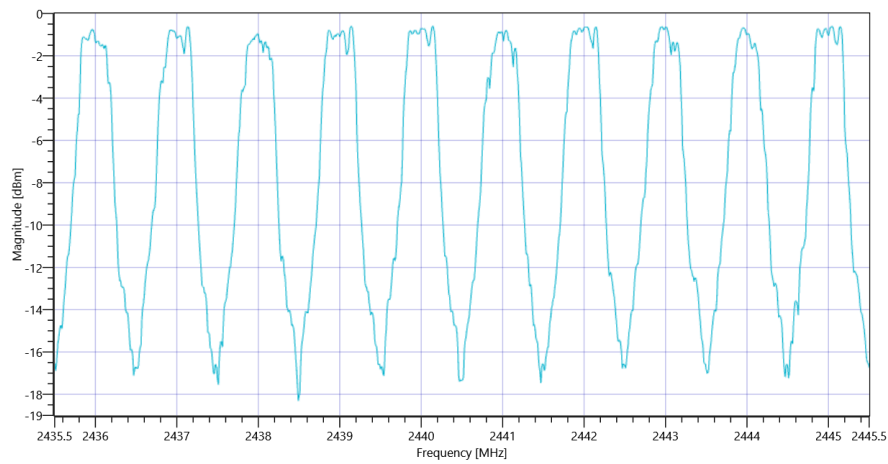
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.16    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2463.080 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.84   10.8   10       |
| Start [MHz]   Stop [MHz]                             | 2435.500   2445.500    |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1   20000   1001   SWE |

### RESULT

| Test Description     | Lower Limit        | Upper Limit | Measured | Unit | Verdict |
|----------------------|--------------------|-------------|----------|------|---------|
| 1 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 1 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 2 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 2 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 3 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 3 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 4 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 4 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 5 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 5 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 6 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 6 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 7 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 7 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 8 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 8 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| 9 CFS n to n+1 (rnd) | 0.025              | ---         | 1        | MHz  | PASS    |
| 9 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | ---         | 1        | MHz  | PASS    |
| Carrier Freq. (rnd)  | ---                | ---         | 2436     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2437     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2438     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2439     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2440     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2441     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2442     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2443     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2444     | MHz  | INFO    |
| Carrier Freq. (rnd)  | ---                | ---         | 2445     | MHz  | INFO    |



FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate

General verdict

PASS

## FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

### Test References

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:44:42                                            |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                      |
| System Version                    | 3.0.1.0                                                        |
| Test Specification                | FCC Part 15.247                                                |
| Test Method                       |                                                                |
| TC Version                        | 0.0.2                                                          |
| My Description                    | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate |
| Add. Information                  |                                                                |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.83    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.900 | MHz  | INFO    |

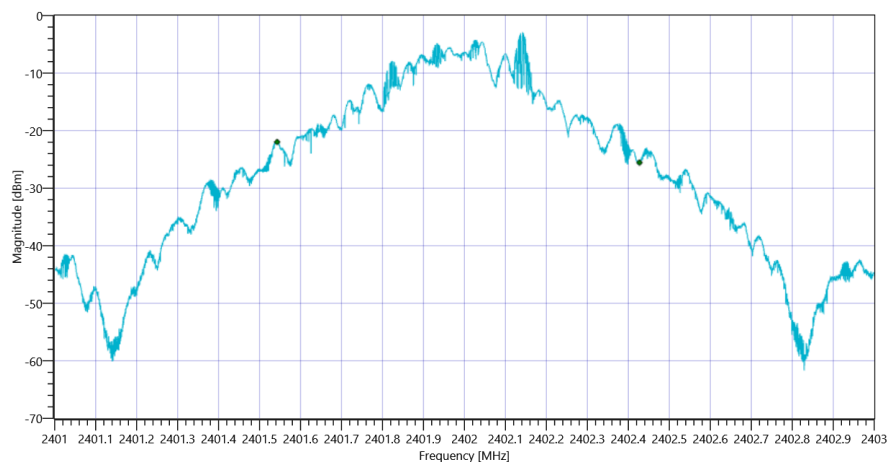
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.17   10.79   10      |
| Start [MHz]   Stop [MHz]                             | 2401.000   2403.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

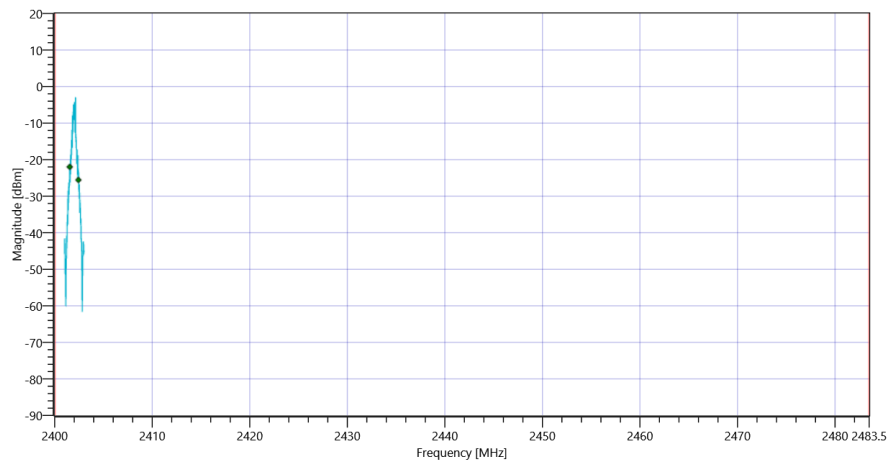
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 884.312   | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2401.5428 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2402.4272 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 99PCT

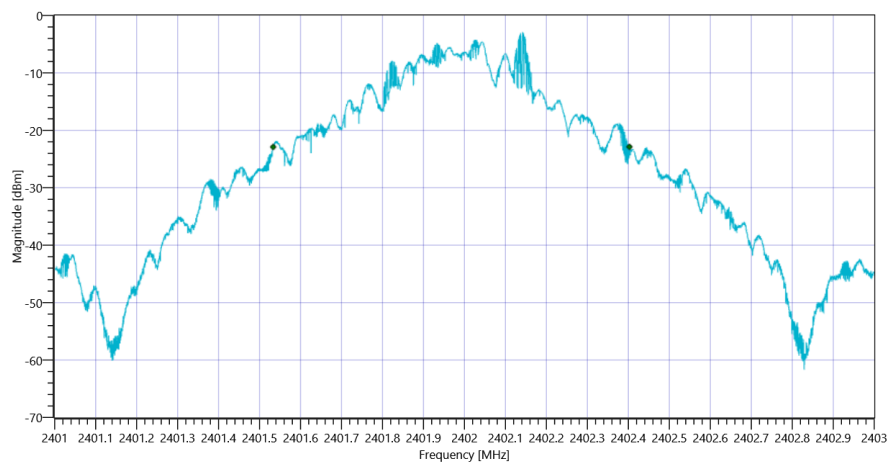
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

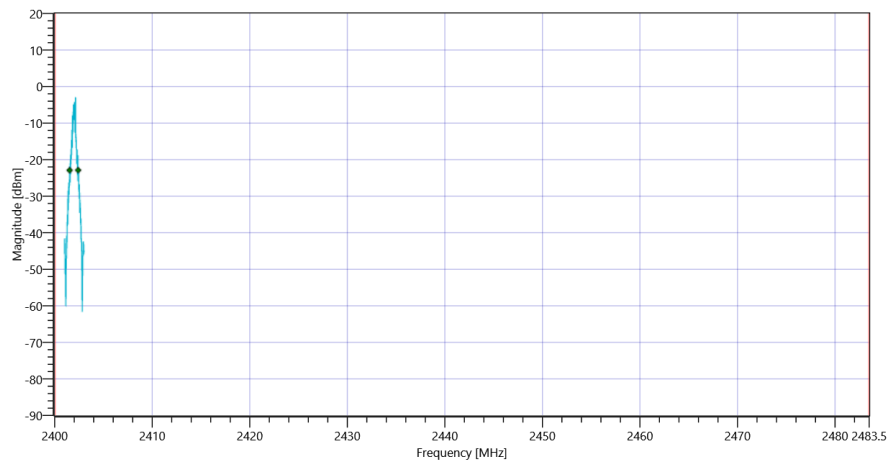
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 869       | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2401.5332 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2402.4026 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.45    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2441.000 | MHz  | INFO    |

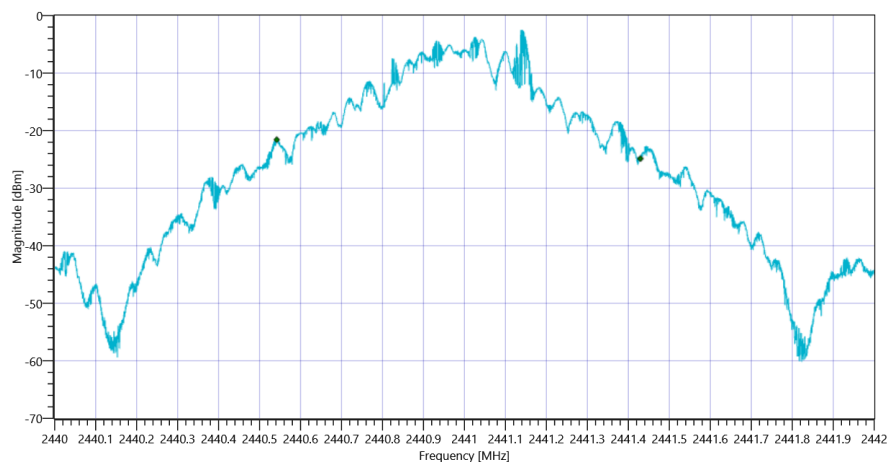
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.55   10.8   10       |
| Start [MHz]   Stop [MHz]                             | 2440.000   2442.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

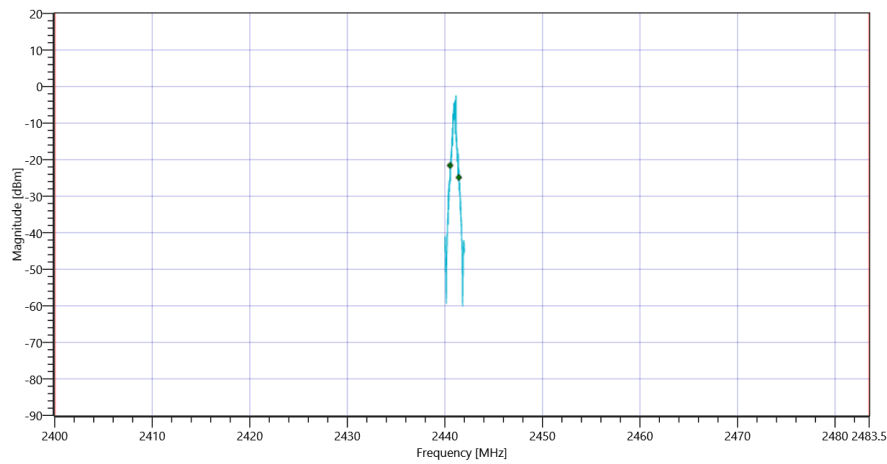
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 887.511   | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2440.5418 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2441.4294 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 99PCT

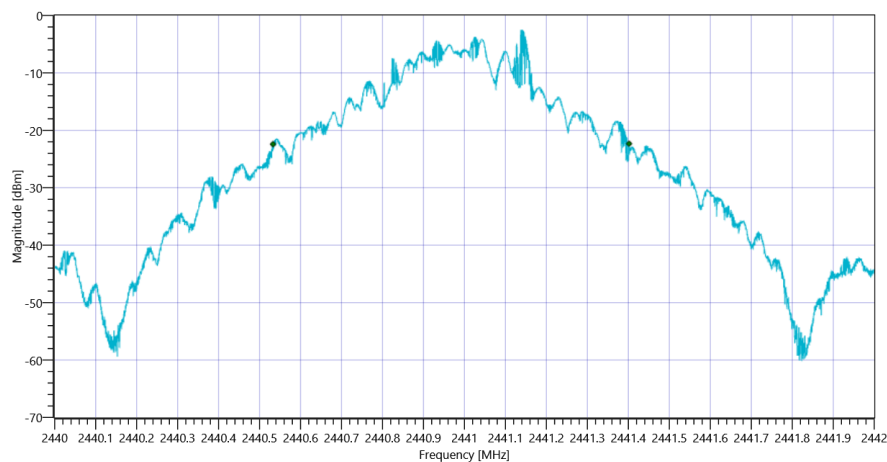
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

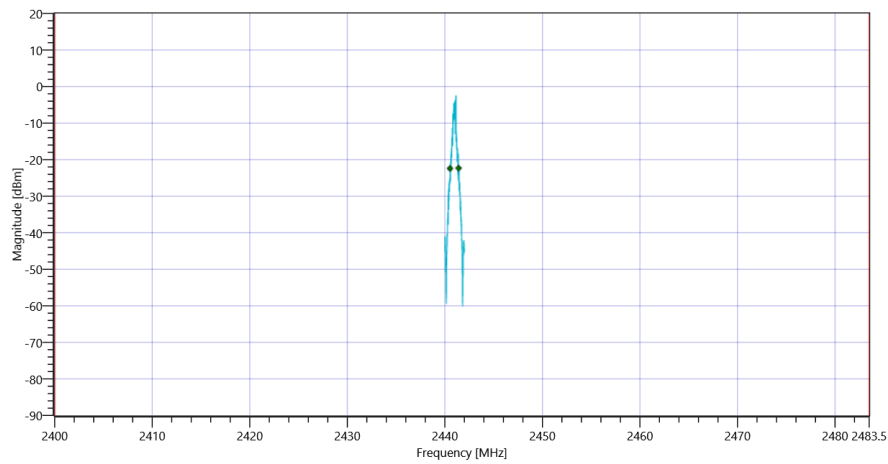
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 869       | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2440.5328 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2441.4018 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.36    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.800 | MHz  | INFO    |

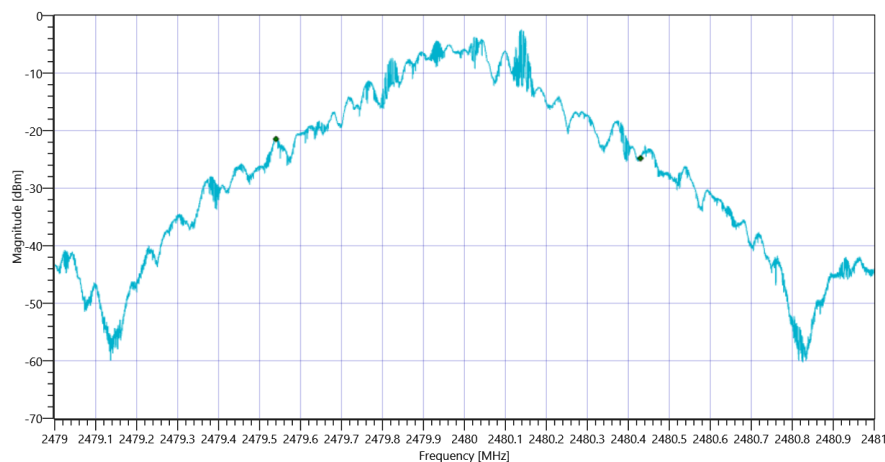
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 4.64   10.85   10      |
| Start [MHz]   Stop [MHz]                             | 2479.000   2481.000    |
| RBW [MHz]   VBW [MHz]                                | 0.020000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

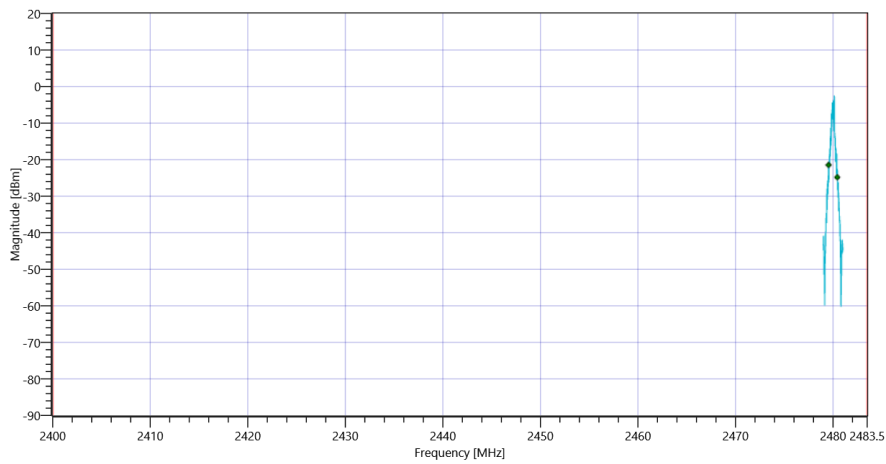
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 889.511   | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2479.5400 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2480.4296 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 99PCT

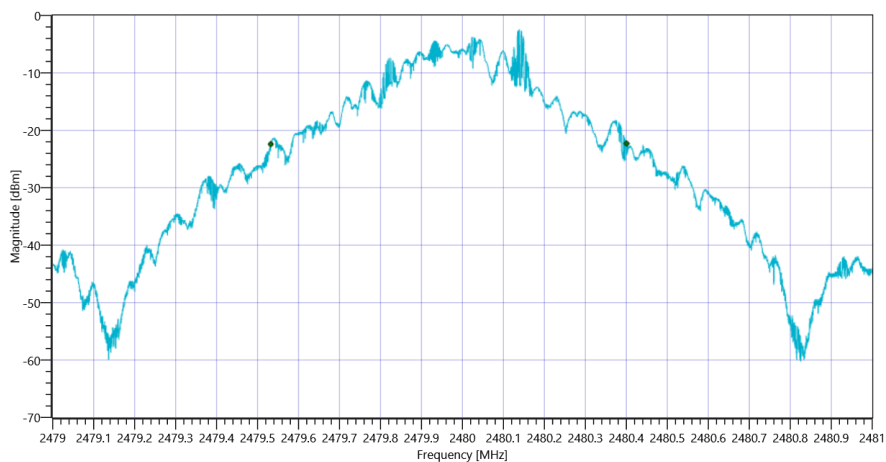
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

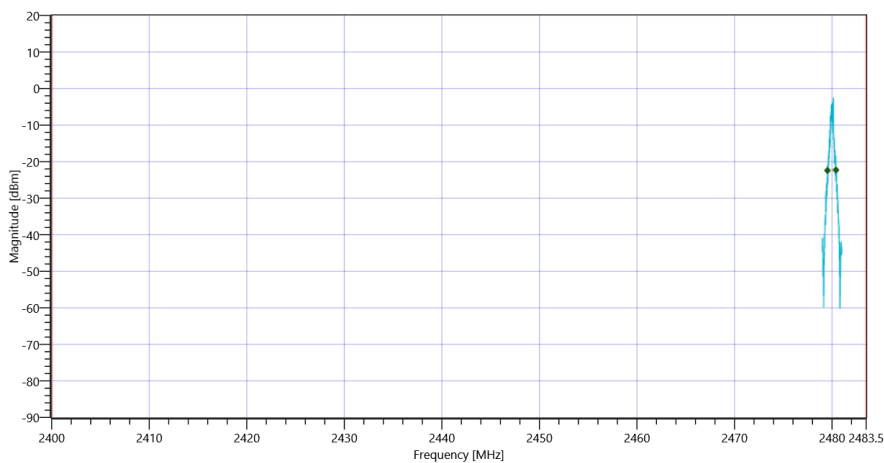
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 868       | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2479.5322 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2480.4006 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

|                 |      |
|-----------------|------|
| General verdict | PASS |
|-----------------|------|

## FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate

| Test References                   |                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 15:47:25                                                                                            |
| Ambit Temp [°C]   Humidity [rel%] | 23.6   24                                                                                                      |
| System Version                    | 3.0.1.0                                                                                                        |
| Test Specification                | FCC Part 15.247                                                                                                |
| Test Method                       | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| TC Version                        | 0.0.1                                                                                                          |
| My Description                    | FCC 15.247 TX Emissions Conducted FHSS - BT Classic Basic Rate                                                 |
| Add. Information                  |                                                                                                                |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic Basic rate                  |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

RESULT: Reference Power cond.

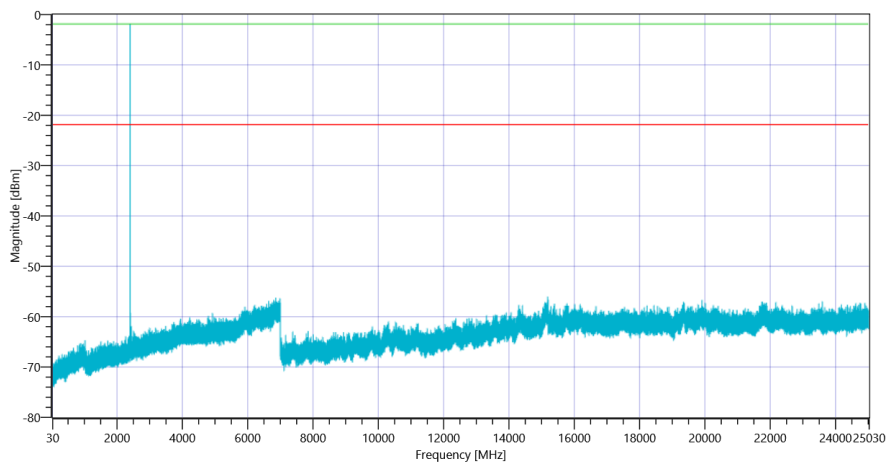
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.80    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.900 | MHz  | INFO    |

READ SA SETTINGS:

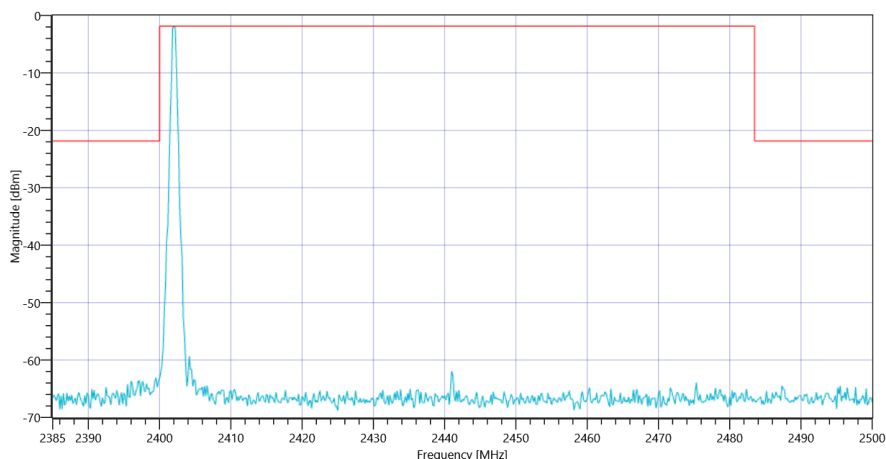
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -0.80   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2402.17 MHz       | ---         | ---         | -1.84    | dBm  | INFO    |
| No peaks detected                | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 30 MHz | 0           | ---         | -128.51  | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2402



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2402*

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

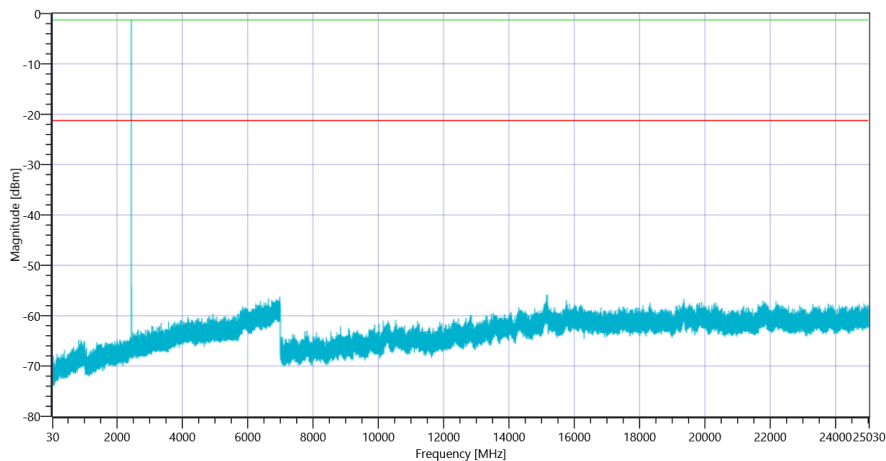
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.30    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.800 | MHz  | INFO    |

### READ SA SETTINGS:

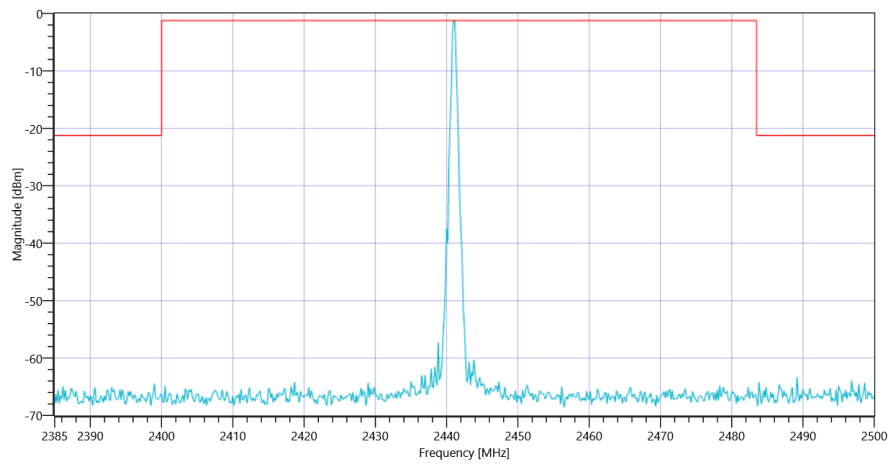
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -0.30   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

### RESULT

| Test Description                           | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2441.00 MHz                 | ---         | ---         | -1.24    | dBm  | INFO    |
| No peaks detected                          | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 15176.167<br>MHz | 0           | ---         | 34.58    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2441



FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2441

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

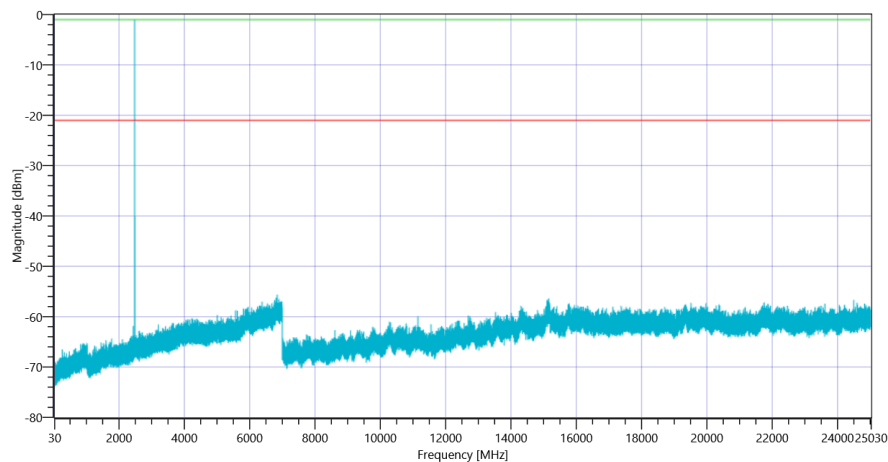
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -0.37    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.100 | MHz  | INFO    |

### READ SA SETTINGS:

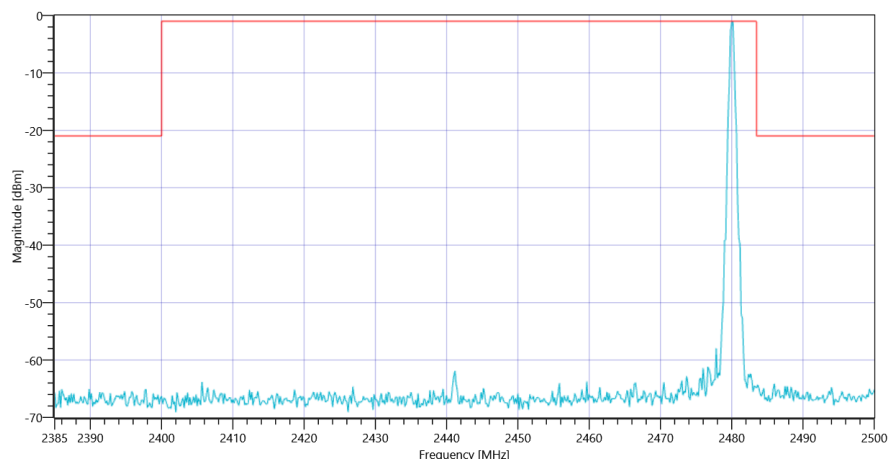
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -0.37   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

### RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2480.17 MHz             | ---         | ---         | -1.00    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6843.167 MHz | 0           | ---         | 34.6     | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2480



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2480*

General verdict

PASS

## Common2G4 Peak OP 3MHz/3MHz ~ BT Classic EDR Pi/4DQPSK

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:04:48                                              |
| Ambit Temp [°C]   Humidity [rel%] | 23.4   24                                                        |
| System Version                    | 3.0.1.0                                                          |
| Test Specification                | None                                                             |
| Test Method                       |                                                                  |
| TC Version                        | 0.0.1                                                            |
| My Description                    | Peak Output Power conducted 3MHz/3MHz - BT Classic EDR Pi/4DQPSK |
| Add. Information                  |                                                                  |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR Pi/4DQPSK               |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

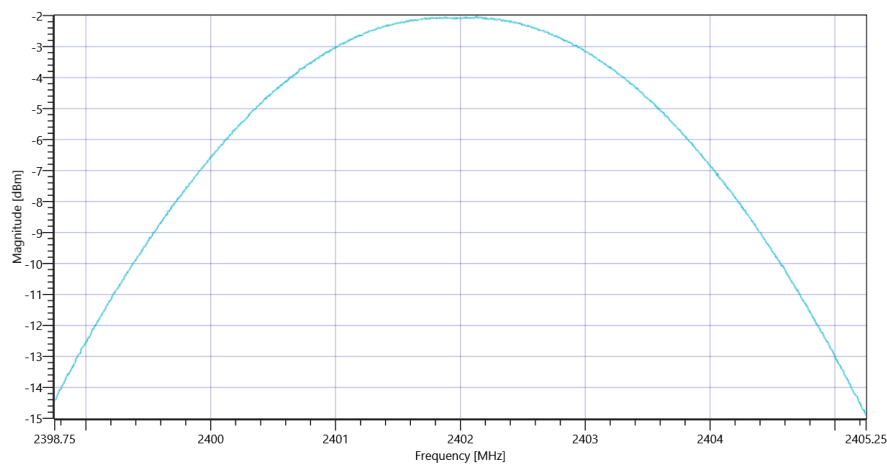
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.86    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.14   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2398.750   2405.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -2.02    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.628058 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2402.13  | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

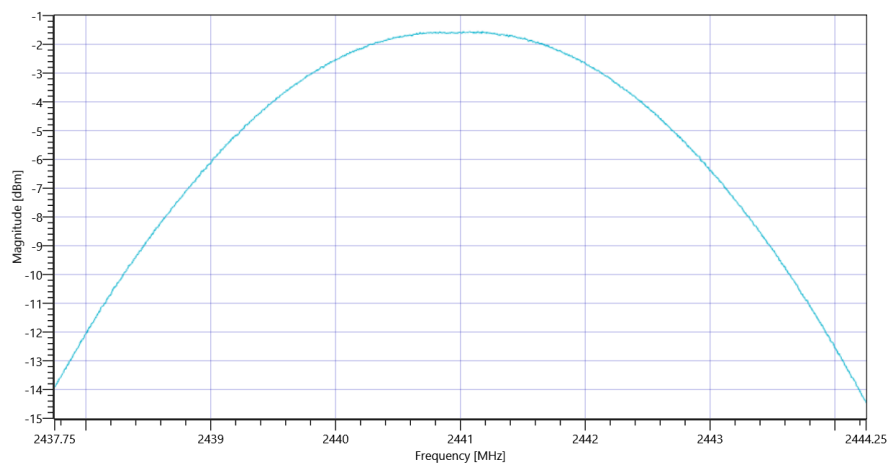
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.91    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.900 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.09   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2437.750   2444.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -1.55    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.699842 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2441.175 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

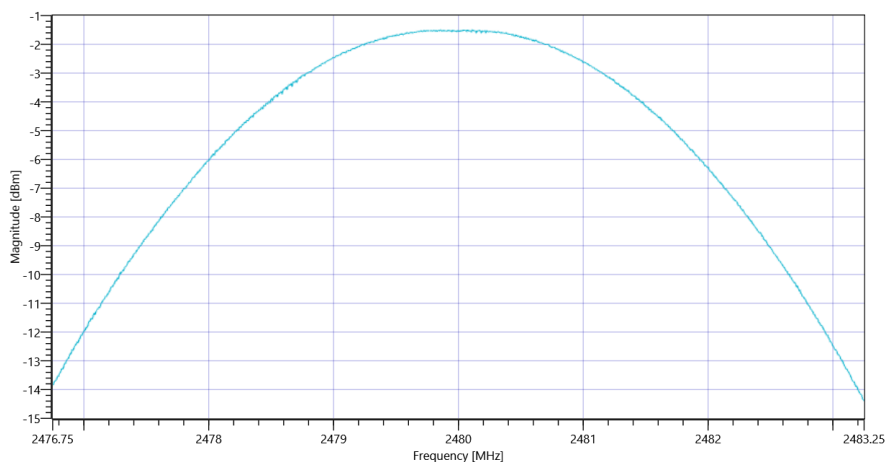
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.84    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.16   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2476.750   2483.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -1.5     | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.707946 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2480.071 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR Pi-4DQPSK

General verdict

PASS

## FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi/4DQPSK

| Test References                   |                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:06:22                                                            |
| Ambit Temp [°C]   Humidity [rel%] | 23.4   24                                                                      |
| System Version                    | 3.0.1.0                                                                        |
| Test Specification                | FCC Part 15.247                                                                |
| Test Method                       |                                                                                |
| TC Version                        | 0.0.1                                                                          |
| My Description                    | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK |
| Add. Information                  |                                                                                |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR Pi/4DQPSK               |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

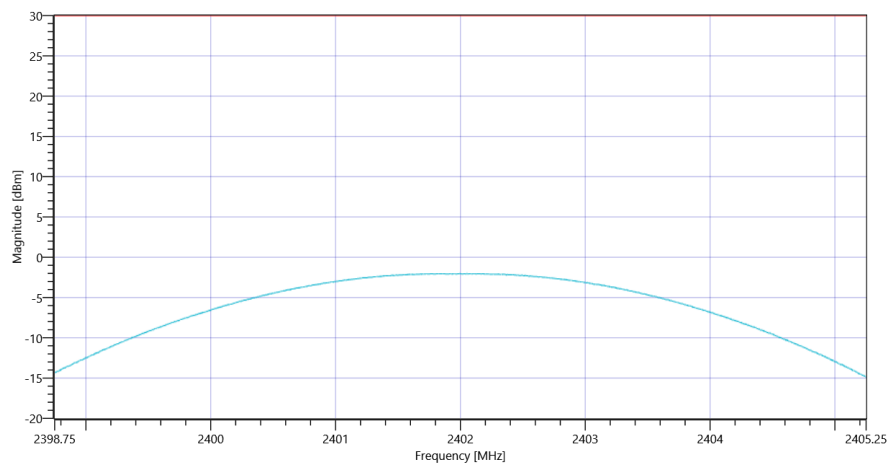
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.32    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2402.100 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 6.68   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2398.750   2405.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -2.02    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.628058 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2401.994 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

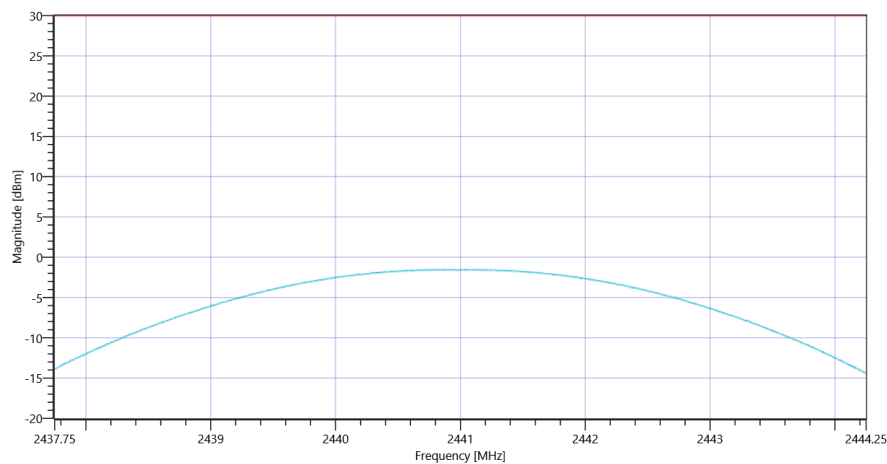
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.59    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2441.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.41   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2437.750   2444.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -1.54    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.701455 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2441.052 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

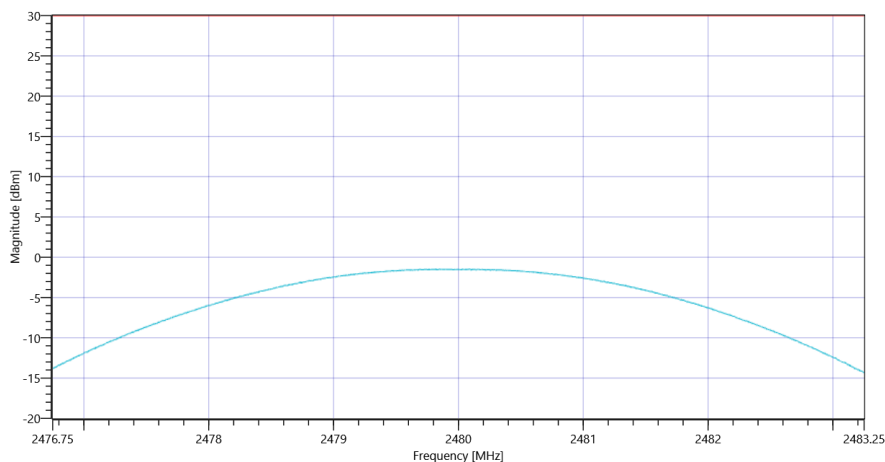
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.63    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.37   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2476.750   2483.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -1.48    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.711214 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2480.156 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK

General verdict

PASS

## FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi/4DQPSK

### Test References

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:07:57                                                  |
| Ambit Temp [°C]   Humidity [rel%] | 23.4   24                                                            |
| System Version                    | 3.0.1.0                                                              |
| Test Specification                | FCC Part 15.247                                                      |
| Test Method                       |                                                                      |
| TC Version                        | 0.0.2                                                                |
| My Description                    | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR<br>Pi/4DQPSK |
| Add. Information                  |                                                                      |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR Pi/4DQPSK               |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.05    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.800 | MHz  | INFO    |

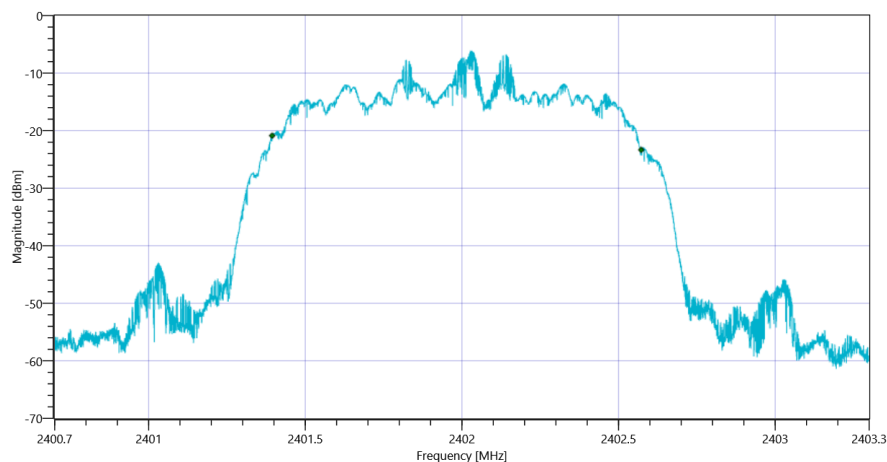
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 1.95   10.79   10      |
| Start [MHz]   Stop [MHz]                             | 2400.700   2403.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

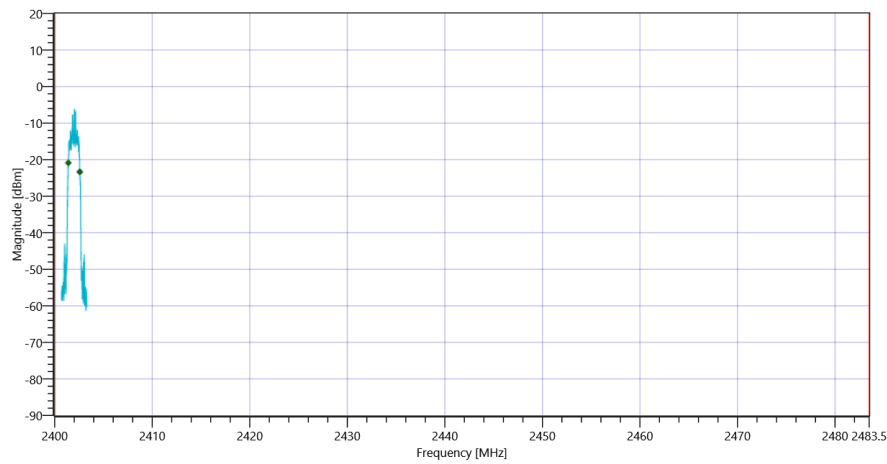
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1177.942  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2401.3943 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2402.5722 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 99PCT

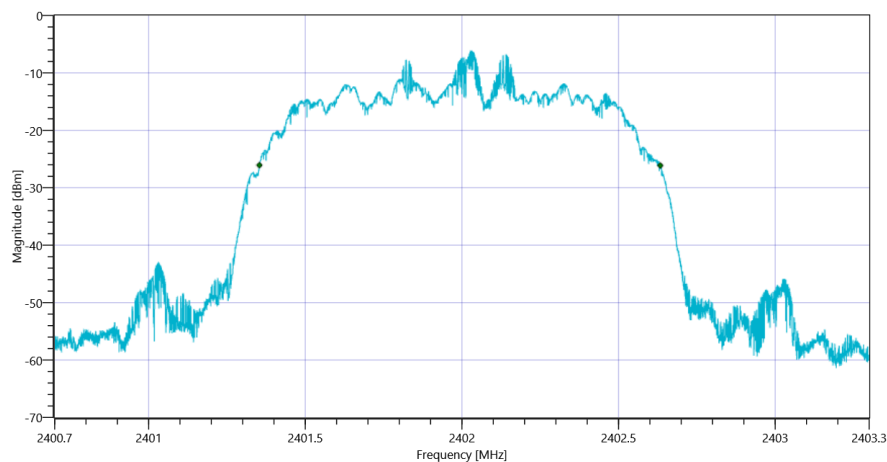
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK

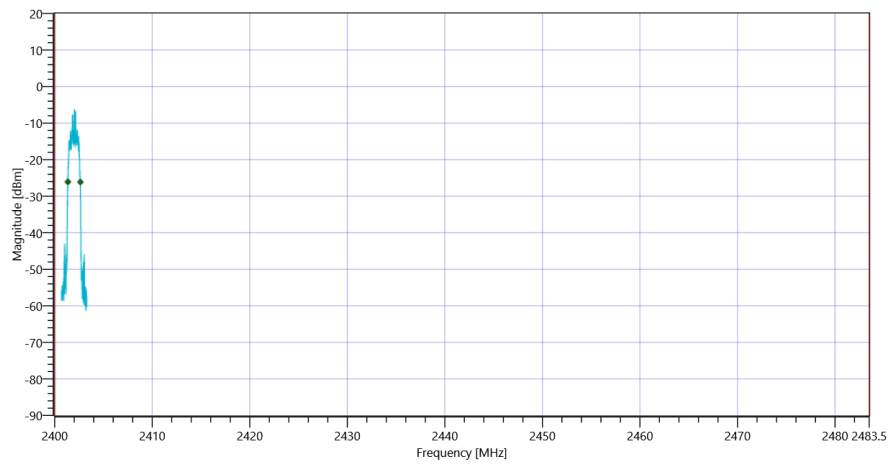
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1280      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2401.3534 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2402.6334 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.59    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.800 | MHz  | INFO    |

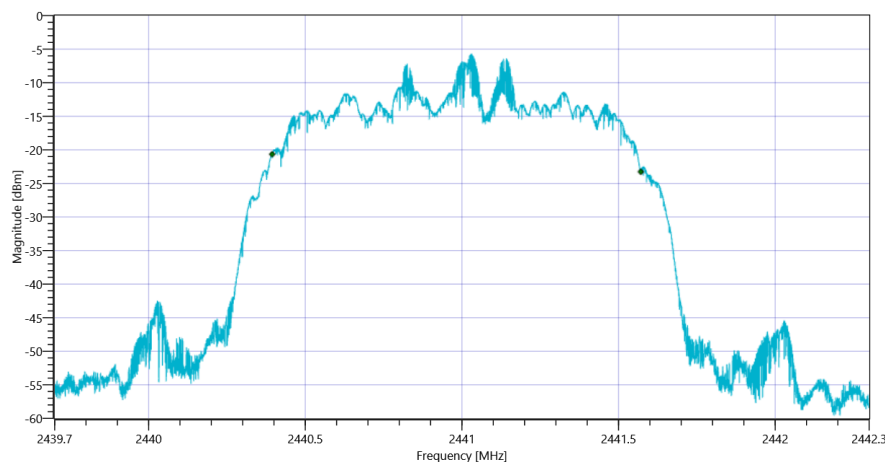
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 2.41   10.8   10       |
| Start [MHz]   Stop [MHz]                             | 2439.700   2442.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

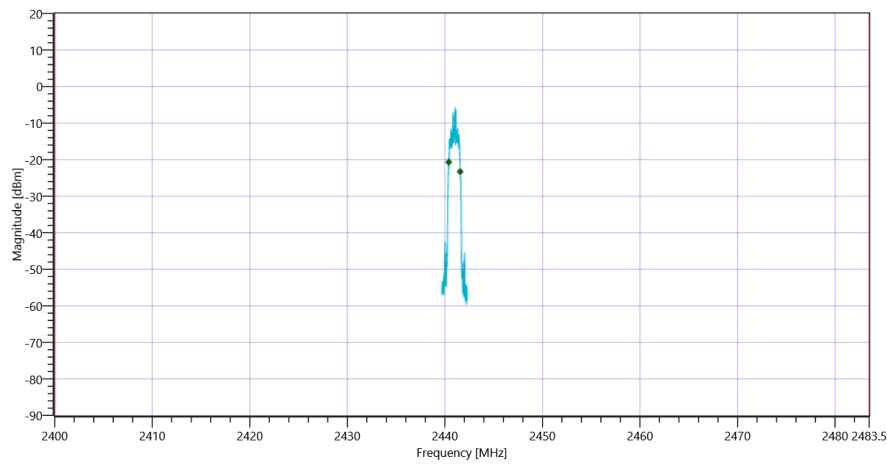
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1176.642  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2440.3943 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2441.5709 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 99PCT

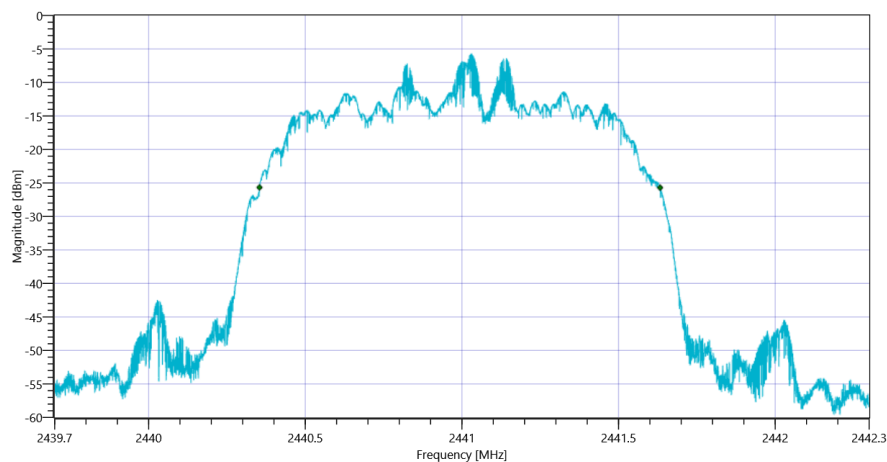
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK

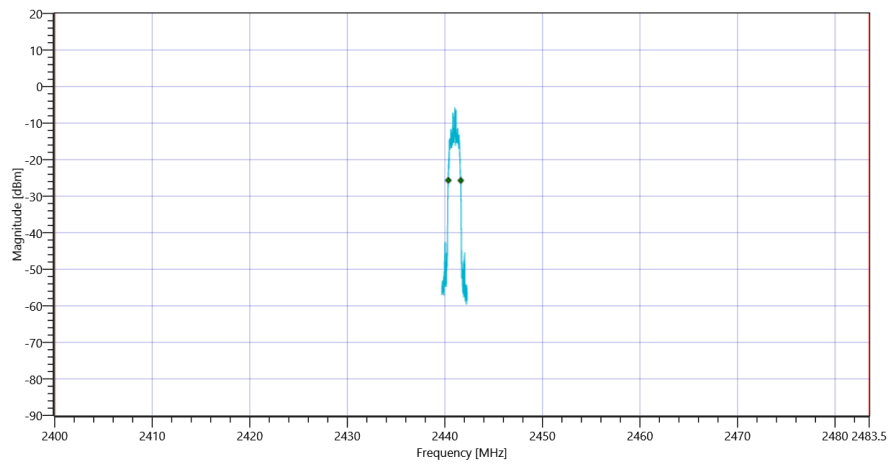
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1279      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2440.3536 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2441.6326 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.79    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.000 | MHz  | INFO    |

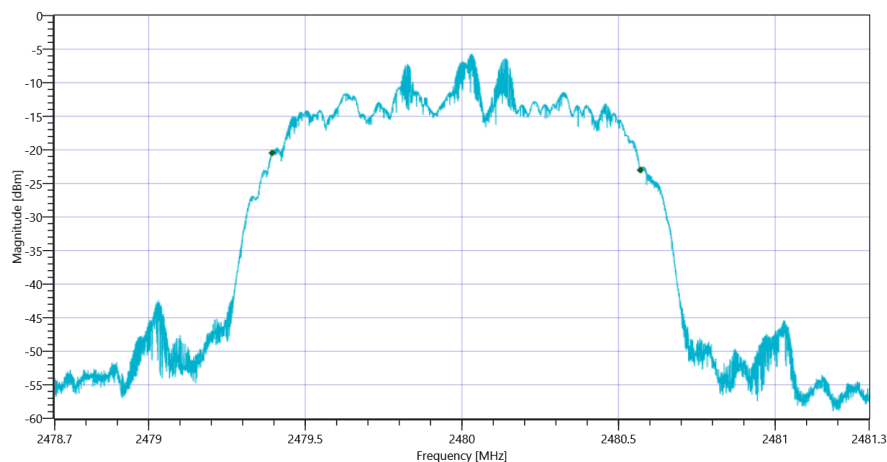
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 2.21   10.85   10      |
| Start [MHz]   Stop [MHz]                             | 2478.700   2481.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

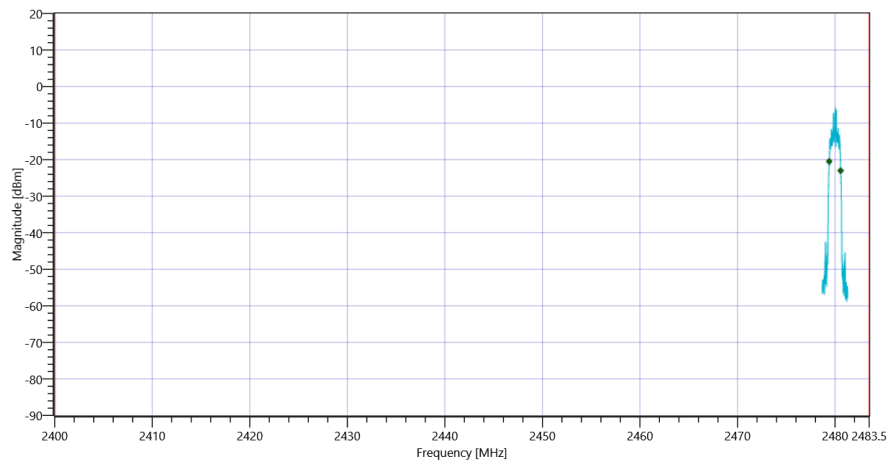
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1175.602  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2479.3940 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2480.5696 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 99PCT

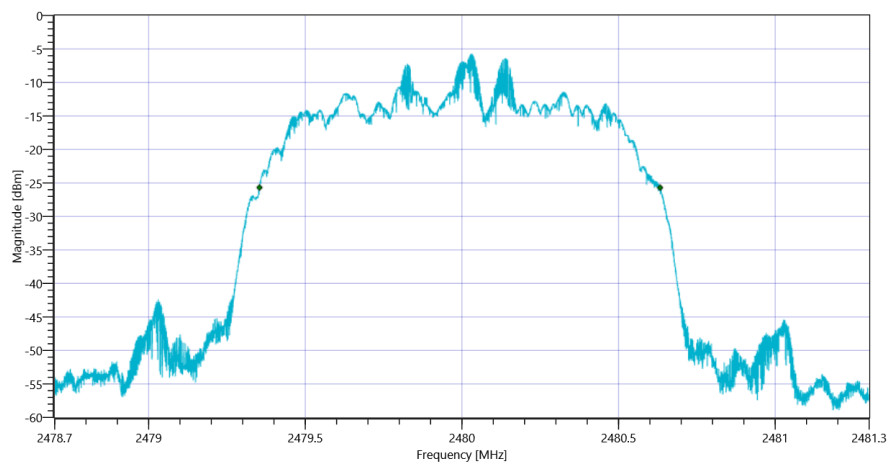
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK

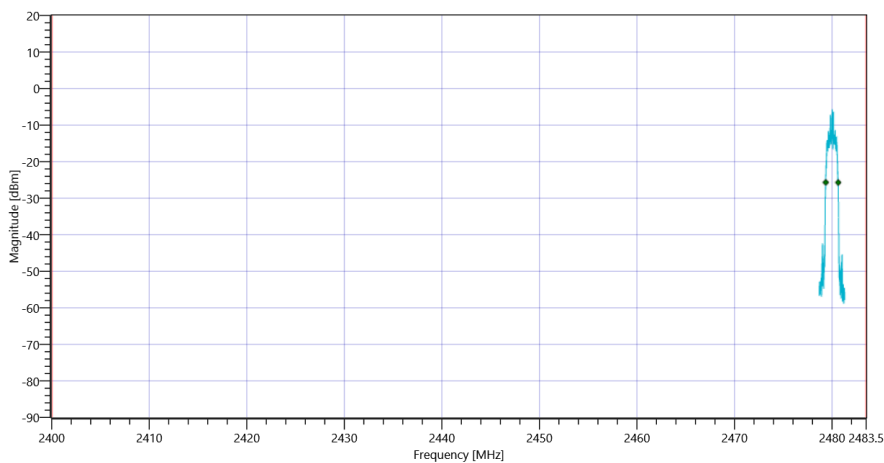
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1279      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2479.3536 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2480.6326 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 20dB

Plot: Bandwidth within Band



General verdict

PASS

## FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi/4DQPSK

| Test References                   |                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:10:43                                                                                            |
| Ambit Temp [°C]   Humidity [rel%] | 23.4   24                                                                                                      |
| System Version                    | 3.0.1.0                                                                                                        |
| Test Specification                | FCC Part 15.247                                                                                                |
| Test Method                       | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| TC Version                        | 0.0.1                                                                                                          |
| My Description                    | FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR Pi/4DQPSK                                              |
| Add. Information                  |                                                                                                                |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR Pi/4DQPSK               |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

RESULT: Reference Power cond.

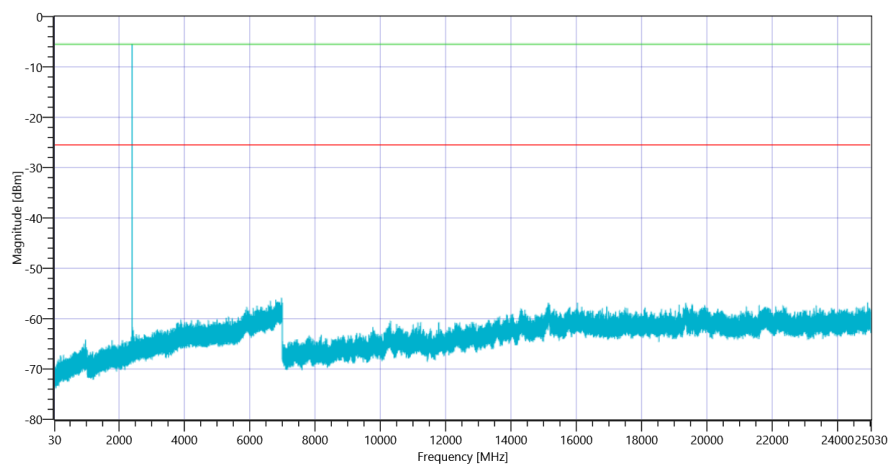
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.37    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2402.100 | MHz  | INFO    |

READ SA SETTINGS:

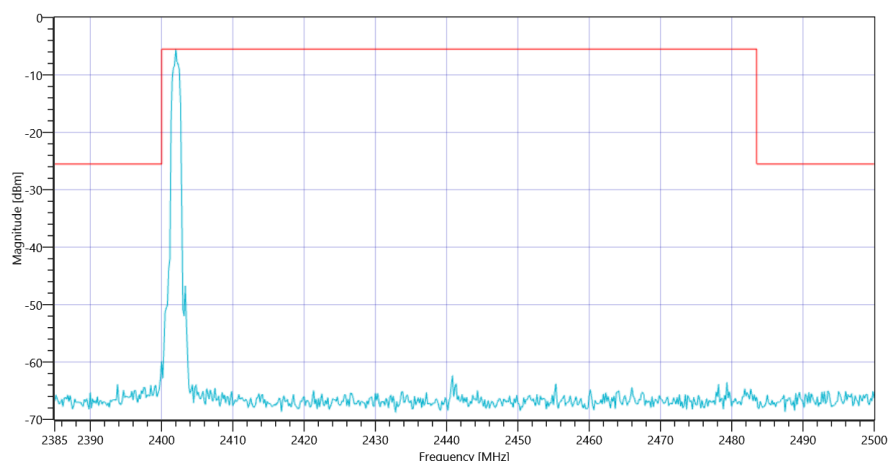
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -3.37   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2402.00 MHz             | ---         | ---         | -5.51    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6978.667 MHz | 0           | ---         | 30.36    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4DQPSK 2402



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4DQPSK 2402*

## Test at TX 2441 MHz

RESULT: Reference Power cond.

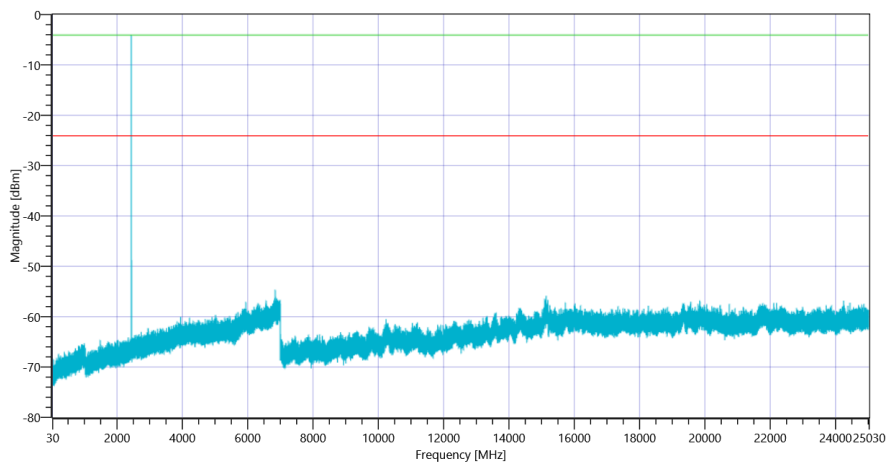
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.34    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2441.100 | MHz  | INFO    |

READ SA SETTINGS:

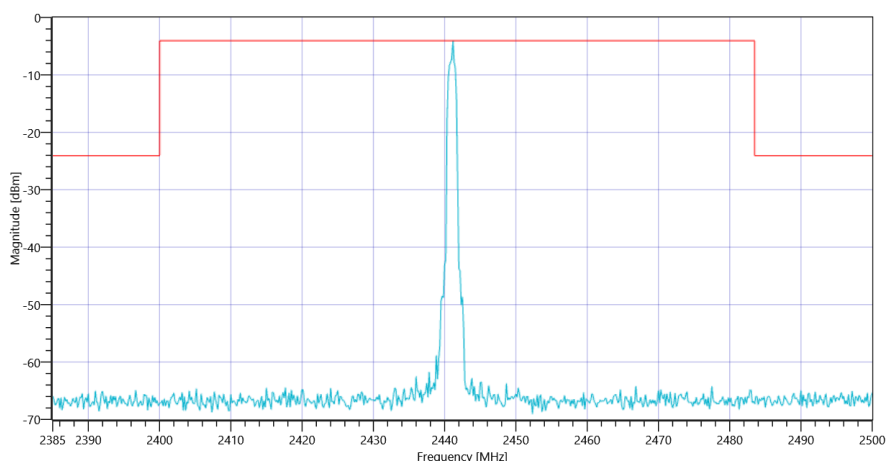
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -2.34   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2441.17 MHz             | ---         | ---         | -4.06    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6848.333 MHz | 0           | ---         | 30.61    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2441



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4DQPSK 2441*

## Test at TX 2480 MHz

RESULT: Reference Power cond.

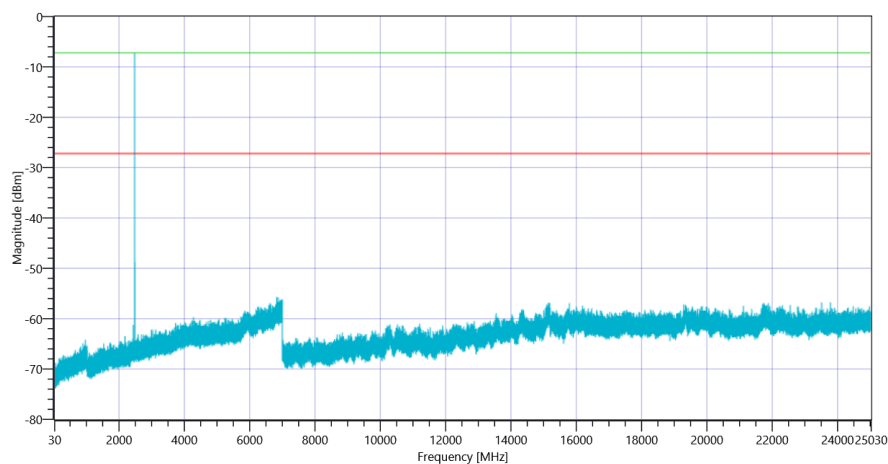
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.55    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.800 | MHz  | INFO    |

READ SA SETTINGS:

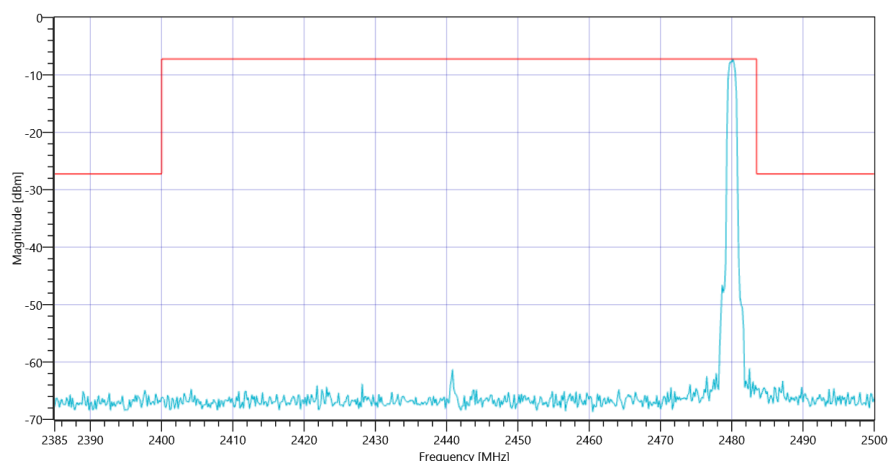
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -2.55   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2480.17 MHz             | ---         | ---         | -7.22    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6827.667 MHz | 0           | ---         | 28.51    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2480



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4DQPSK 2480*

General verdict

PASS

## Common2G4 Peak OP 3MHz/3MHz ~ BT Classic EDR 8DPSK

### Test References

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:28:06                                          |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                    |
| System Version                    | 3.0.1.0                                                      |
| Test Specification                | None                                                         |
| Test Method                       |                                                              |
| TC Version                        | 0.0.1                                                        |
| My Description                    | Peak Output Power conducted 3MHz/3MHz - BT Classic EDR 8DPSK |
| Add. Information                  |                                                              |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR 8DPSK                   |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

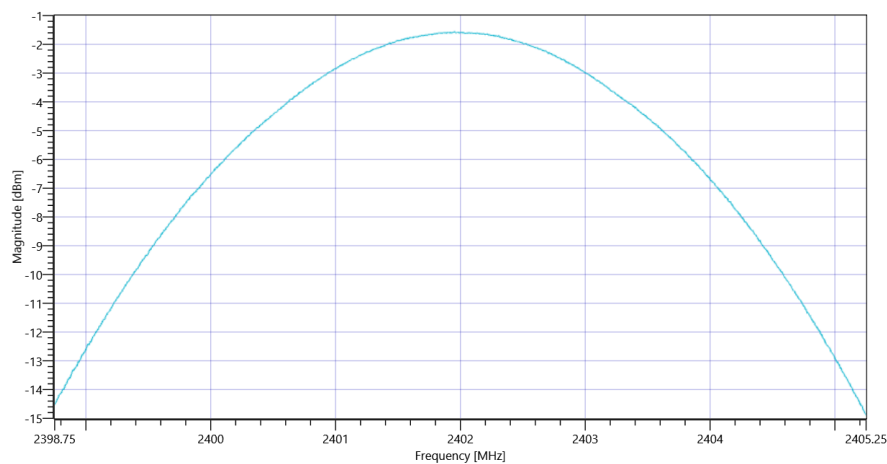
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.52    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2402.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 6.48   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2398.750   2405.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -1.56    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.698232 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2401.954 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR 8DPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

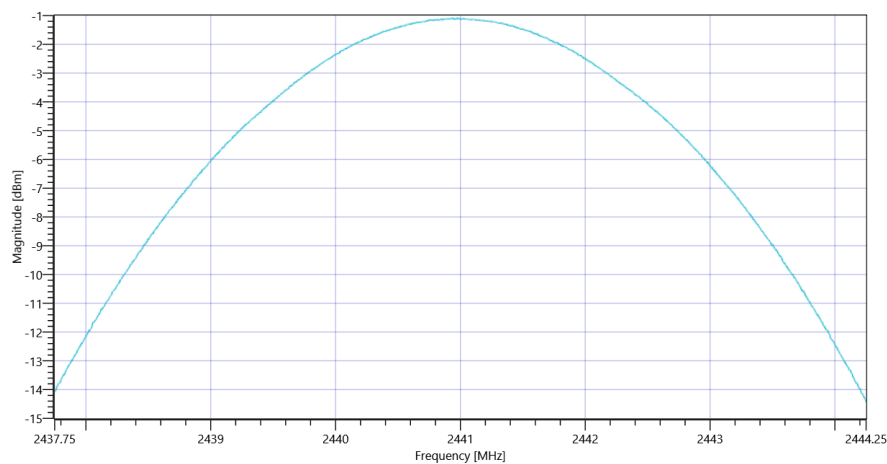
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.99    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2441.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.01   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2437.750   2444.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -1.09    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.778037 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2440.935 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR 8DPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

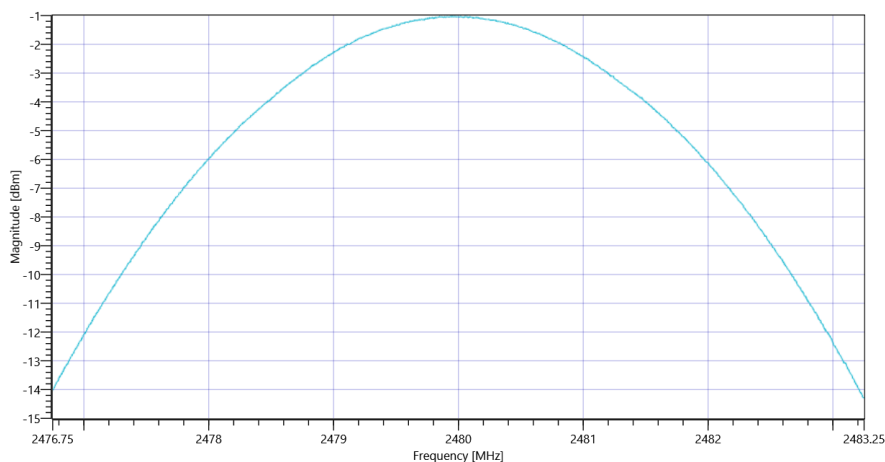
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.80    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2479.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.20   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2476.750   2483.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   3.000000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | ---         | -1.02    | dBm  | Info    |
| Peak Power        | ---         | ---         | 0.790679 | mW   | Info    |
| Frequency at Peak | ---         | ---         | 2479.968 | MHz  | Info    |



Common2G4 Peak OP 3MHz-3MHz ~ BT Classic EDR 8DPSK

General verdict

PASS

## FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK

| Test References                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:29:40                                                        |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                                  |
| System Version                    | 3.0.1.0                                                                    |
| Test Specification                | FCC Part 15.247                                                            |
| Test Method                       |                                                                            |
| TC Version                        | 0.0.1                                                                      |
| My Description                    | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK |
| Add. Information                  |                                                                            |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR 8DPSK                   |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

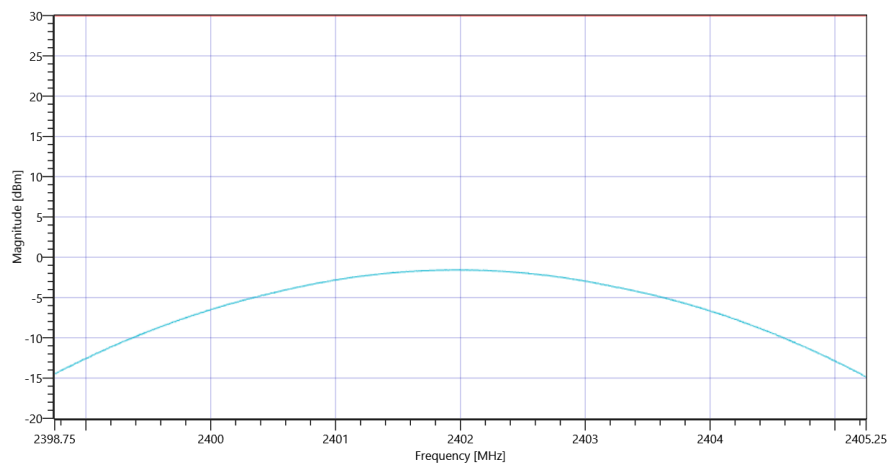
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.49    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2402.100 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 6.51   10.79   15      |
| Start [MHz]   Stop [MHz]                             | 2398.750   2405.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -1.56    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.698232 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2402     | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

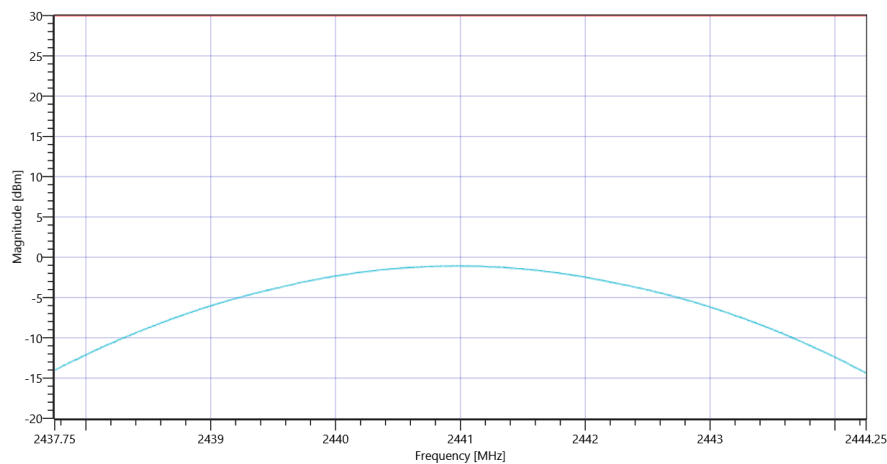
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.05    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.700 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 6.95   10.8   15       |
| Start [MHz]   Stop [MHz]                             | 2437.750   2444.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -1.08    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.77983  | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2440.98  | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

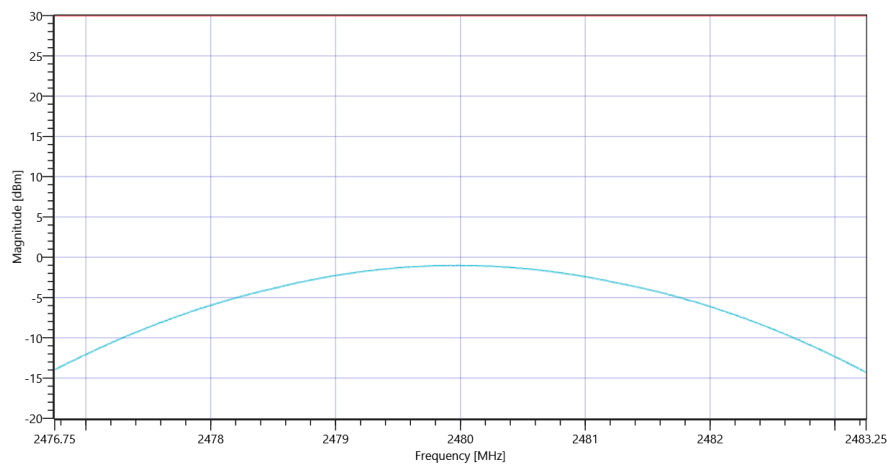
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.92    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.08   10.85   15      |
| Start [MHz]   Stop [MHz]                             | 2476.750   2483.250    |
| RBW [MHz]   VBW [MHz]                                | 3.000000   10.000000   |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 1000   10   1001   SWE |

### RESULT

| Test Description  | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------|-------------|-------------|----------|------|---------|
| Peak Power        | ---         | 30.00       | -1.02    | dBm  | PASS    |
| Peak Power        | ---         | 1000        | 0.790679 | mW   | PASS    |
| Frequency at Peak | ---         | ---         | 2479.987 | MHz  | INFO    |



FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK

General verdict

PASS

## FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

### Test References

|                                   |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:31:16                                           |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                     |
| System Version                    | 3.0.1.0                                                       |
| Test Specification                | FCC Part 15.247                                               |
| Test Method                       |                                                               |
| TC Version                        | 0.0.2                                                         |
| My Description                    | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK |
| Add. Information                  |                                                               |

### EUT Common Settings BT Classic

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR 8DPSK                   |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70  
 SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171  
 SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.87    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2401.900 | MHz  | INFO    |

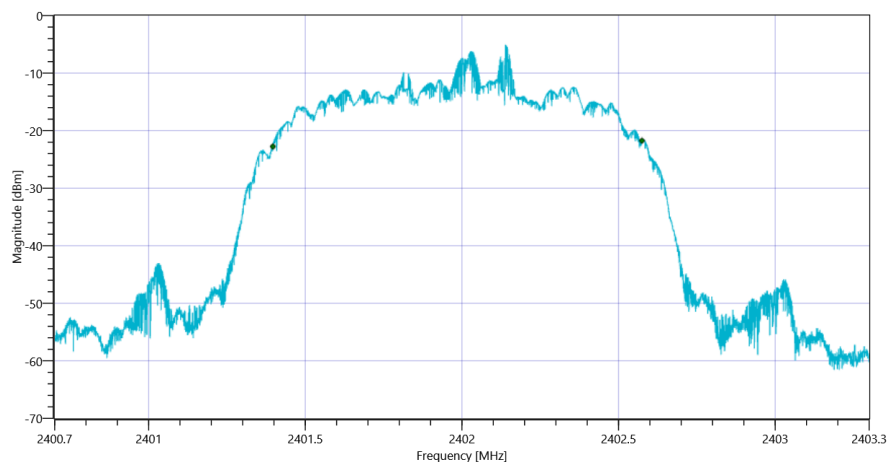
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 2.13   10.79   10      |
| Start [MHz]   Stop [MHz]                             | 2400.700   2403.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

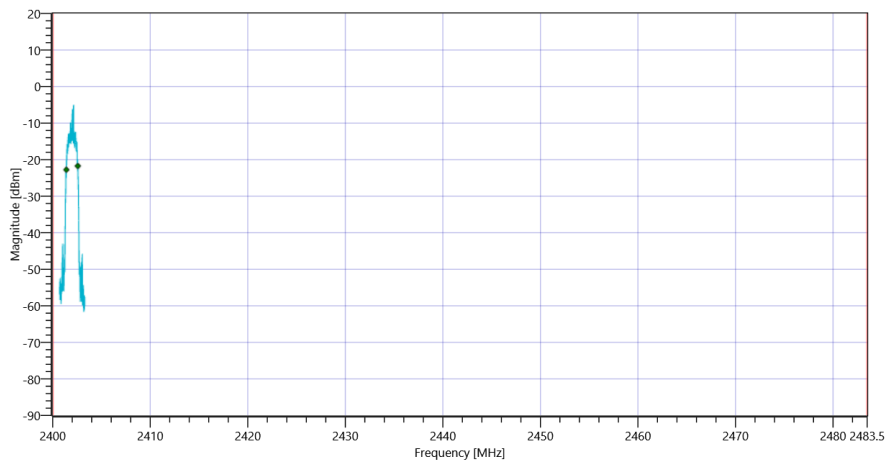
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1177.942  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2401.3966 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2402.5745 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 99PCT

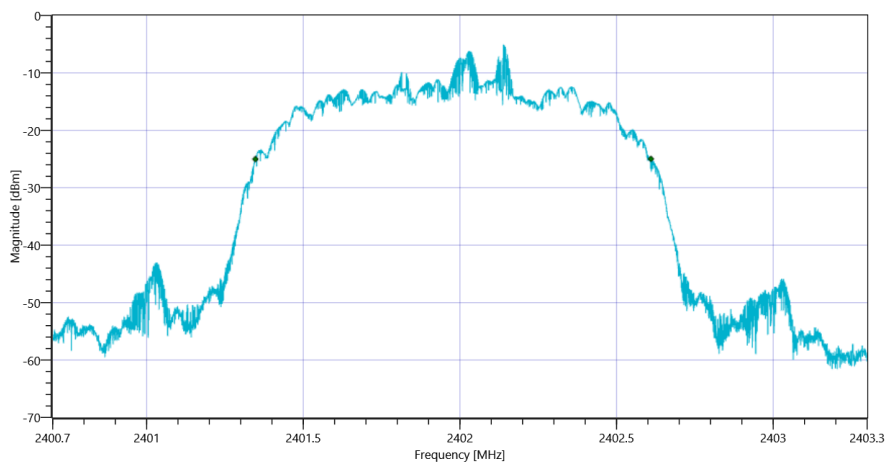
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

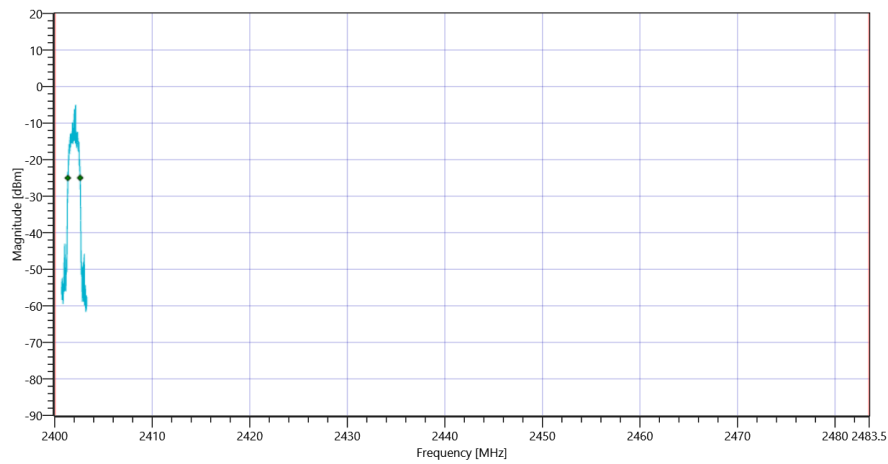
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1263      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2401.3469 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2402.6097 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

## Test at TX 2441 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.87    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.900 | MHz  | INFO    |

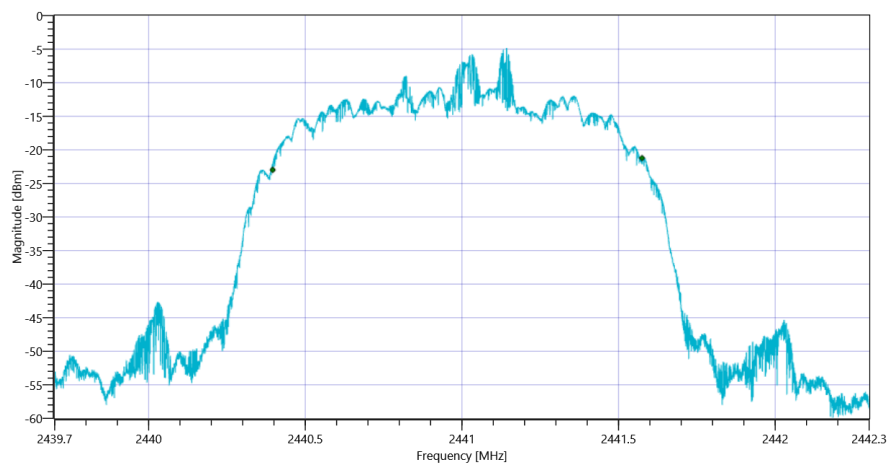
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 2.13   10.8   10       |
| Start [MHz]   Stop [MHz]                             | 2439.700   2442.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

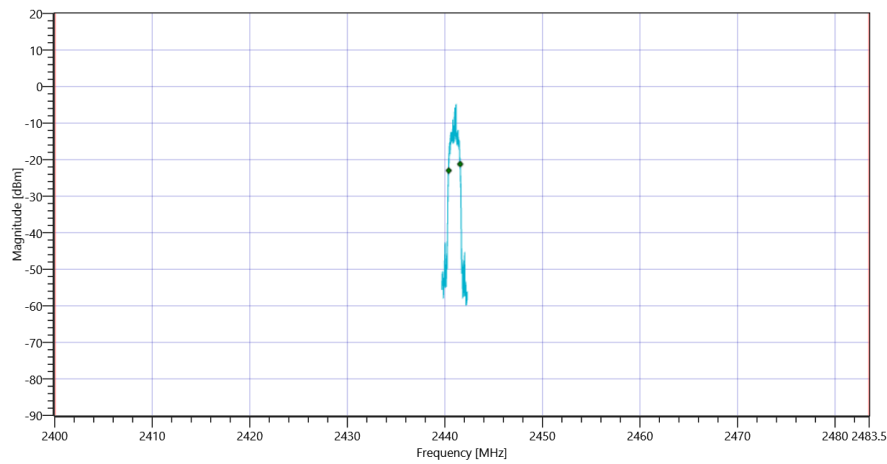
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1178.982  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2440.3958 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2441.5748 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 99PCT

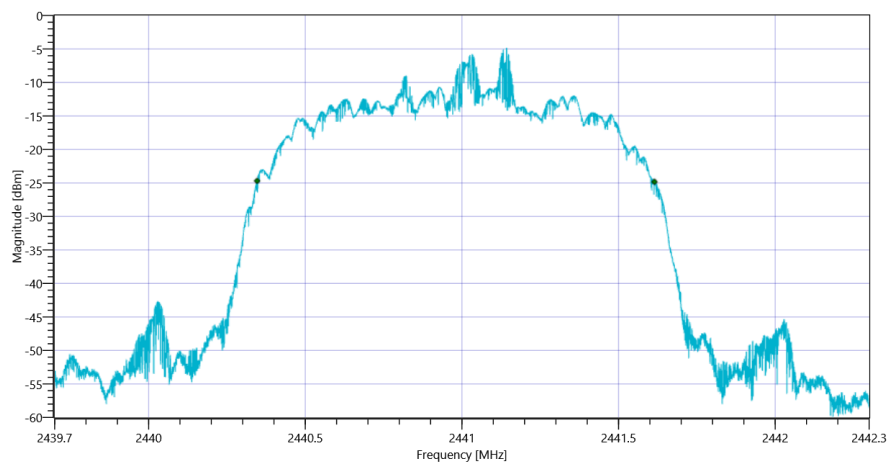
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

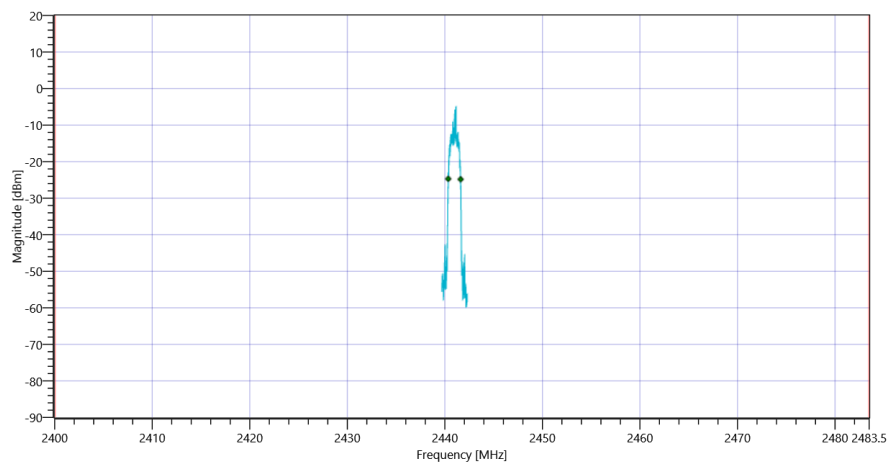
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1269      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2440.3461 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2441.6146 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 20dB

Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

## Test at TX 2480 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.78    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.000 | MHz  | INFO    |

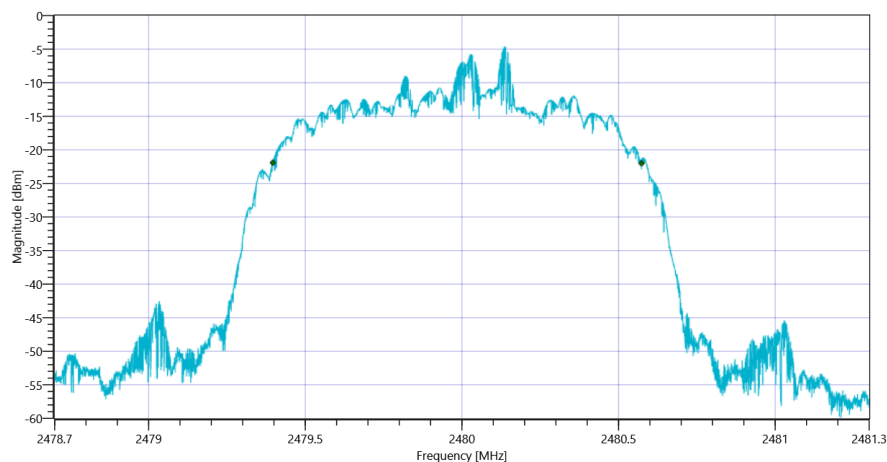
### READ SA SETTINGS:

|                                                      |                        |
|------------------------------------------------------|------------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 2.22   10.85   10      |
| Start [MHz]   Stop [MHz]                             | 2478.700   2481.300    |
| RBW [MHz]   VBW [MHz]                                | 0.030000   0.100000    |
| Detector   TraceMode                                 | POS   MAXH             |
| Sweep: Time [ms]   Count   Points per Section   Type | 50   200   10001   SWE |

### RESULT

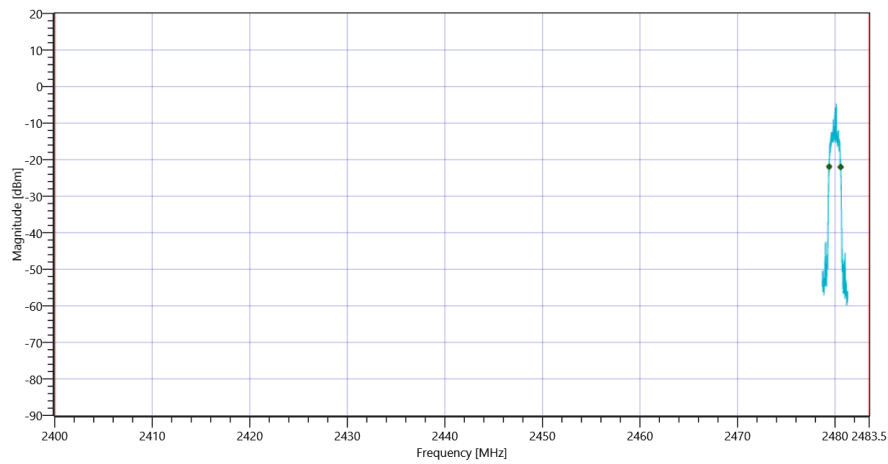
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 1176.642  | kHz  | INFO    |
| T1 99%           | 2400.000000 | ---         | 2479.3966 | MHz  | PASS    |
| T2 99%           | ---         | 2483.500000 | 2480.5732 | MHz  | PASS    |

### Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 99PCT

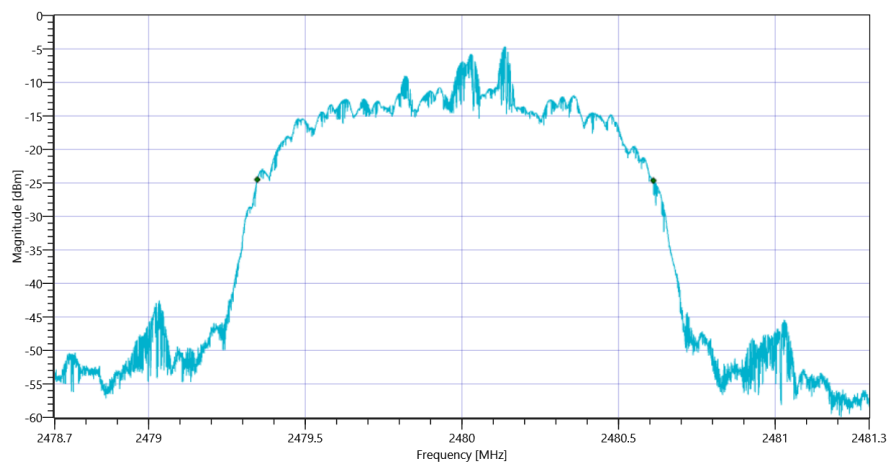
### Plot: Bandwidth within Band



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

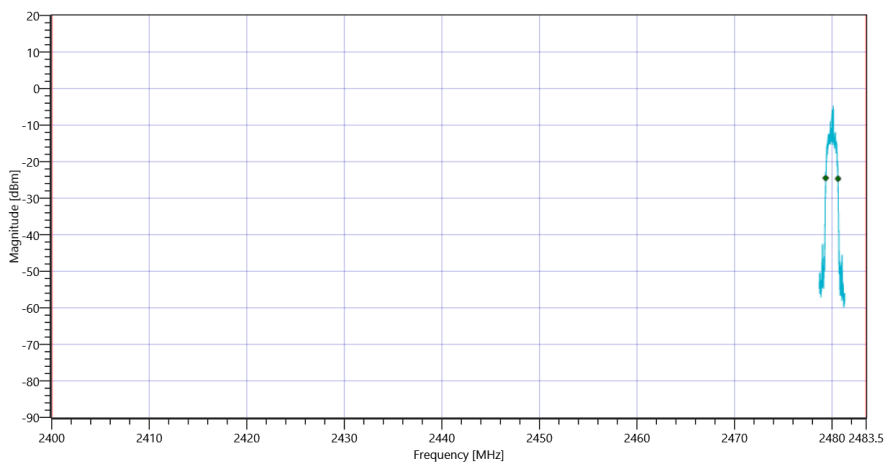
| RESULT           |             |             |           |      |         |
|------------------|-------------|-------------|-----------|------|---------|
| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
| Bandwidth 20dB   | ---         | ---         | 1265      | kHz  | INFO    |
| T1 20dB          | 2400.000000 | ---         | 2479.3466 | MHz  | PASS    |
| T2 20dB          | ---         | 2483.500000 | 2480.6113 | MHz  | PASS    |

Plot: Bandwidth only



FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 20dB

Plot: Bandwidth within Band



General verdict

PASS

## FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK

| Test References                   |                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| TC Start                          | 03.05.2021 16:34:01                                                                                            |
| Ambit Temp [°C]   Humidity [rel%] | 23.5   24                                                                                                      |
| System Version                    | 3.0.1.0                                                                                                        |
| Test Specification                | FCC Part 15.247                                                                                                |
| Test Method                       | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable. |
| TC Version                        | 0.0.1                                                                                                          |
| My Description                    | FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR 8DPSK                                                  |
| Add. Information                  |                                                                                                                |

| EUT Common Settings BT Classic           |                                                       |
|------------------------------------------|-------------------------------------------------------|
| Intermodulation Value N                  | 3                                                     |
| Image Freq. Low   Mid   High [MHz]       | 0   0   0                                             |
| Power Class                              | 1                                                     |
| Power Control                            | No                                                    |
| Longest Supported Packet Type            | DH5                                                   |
| RF Supported                             | Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True |
| Testmode                                 | LOOPback                                              |
| Perform Inquiry                          | No                                                    |
| EUT BT Address (if Inquiry No)           | 84253F7C58B9                                          |
| Signaling BT Address                     | BABEBEDADBAD                                          |
| Switch Matrix & Pathcompensation enabled | Yes                                                   |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | BT Classic EDR 8DPSK                   |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 2402                 |
| Frequency mid to test                            | True   Freq [MHz] 2441                 |
| Frequency high to test                           | True   Freq [MHz] 2480                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                       |  |
|------------------------------------------------------|--|
| SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70    |  |
| SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.171 |  |
| SwitchMatrix: CTCadvanced,RSM-1 NI DAQ,29655273,NI   |  |

## Test at TX 2402 MHz

### RESULT: Reference Power cond.

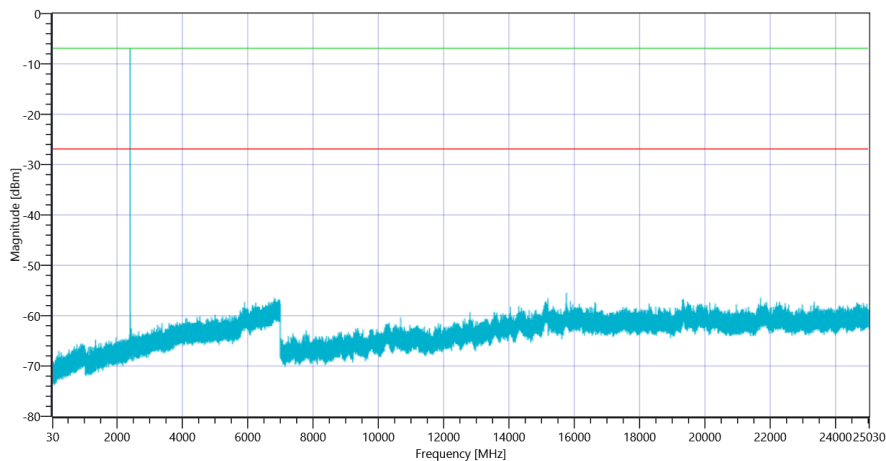
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -3.32    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2402.000 | MHz  | INFO    |

### READ SA SETTINGS:

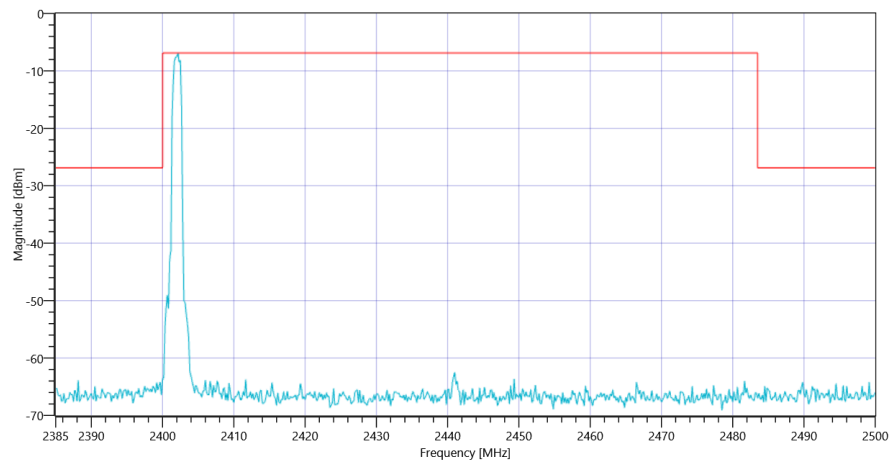
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -3.32   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

### RESULT

| Test Description                           | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2402.17 MHz                 | ---         | ---         | -6.90    | dBm  | INFO    |
| No peaks detected                          | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 15757.333<br>MHz | 0           | ---         | 28.55    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2402



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2402

## Test at TX 2441 MHz

RESULT: Reference Power cond.

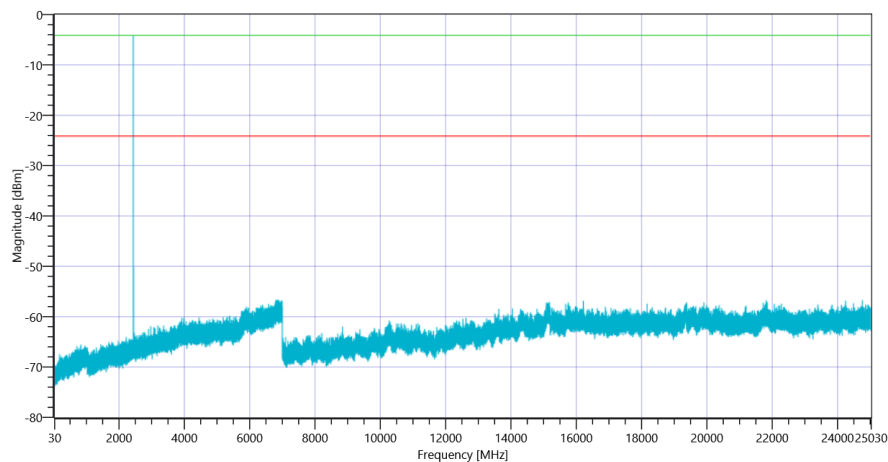
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.57    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2440.900 | MHz  | INFO    |

READ SA SETTINGS:

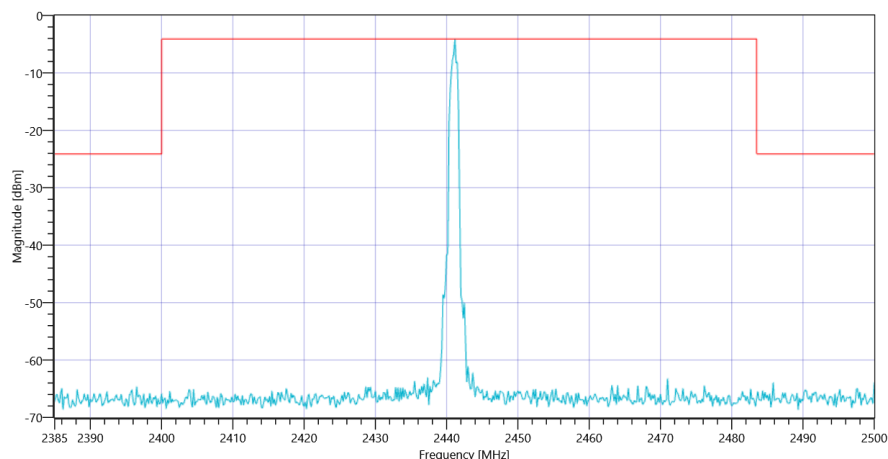
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -2.57   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2441.17 MHz             | ---         | ---         | -4.11    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6805.833 MHz | 0           | ---         | 32.5     | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2441



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2441*

## Test at TX 2480 MHz

RESULT: Reference Power cond.

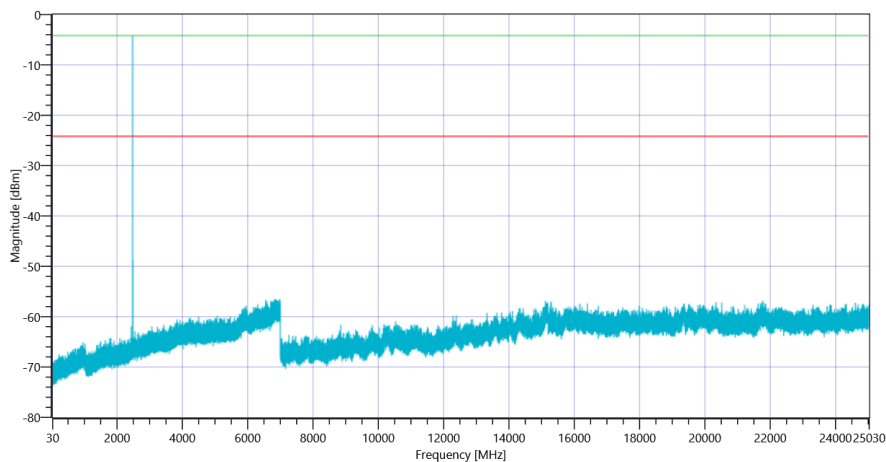
| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | -2.62    | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 2480.400 | MHz  | INFO    |

READ SA SETTINGS:

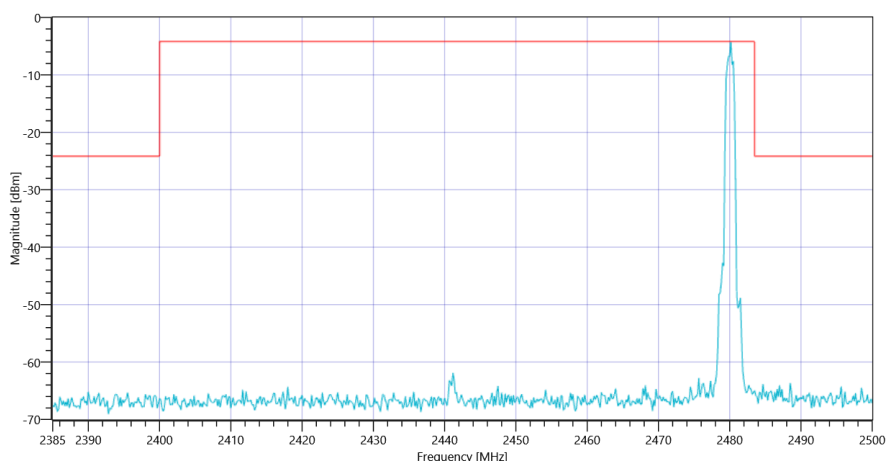
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | -2.62   0   15        |
| Start [MHz]   Stop [MHz]                             | 24530.000   25030.000 |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 500   8   3001   SWE  |

RESULT

| Test Description                       | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------------|-------------|-------------|----------|------|---------|
| Reference @<br>2480.17 MHz             | ---         | ---         | -4.18    | dBm  | INFO    |
| No peaks detected                      | ---         | ---         |          |      | PASS    |
| Lowest margin to<br>limit 6845.833 MHz | 0           | ---         | 32.31    | dB   | INFO    |



FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2480



*FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2480*

General verdict

PASS

---

- END OF DOCUMENT -

---