

## Appendix B: Test Results of BDR & EDR

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## Appendix B.1: Test Results of 99% Bandwidth

### BDR mode (GFSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

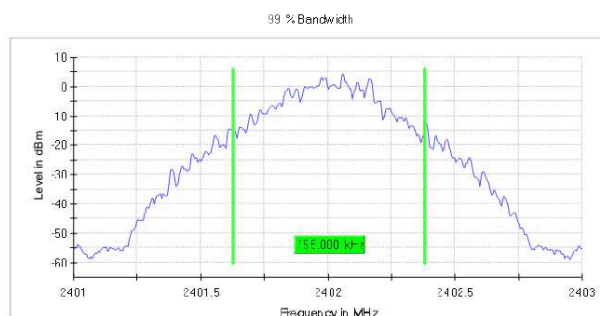
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.755000        | ---             | ---             | 2401.627500          | 2402.382500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| Sweeptime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 6 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.12 dB          | 0.30 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

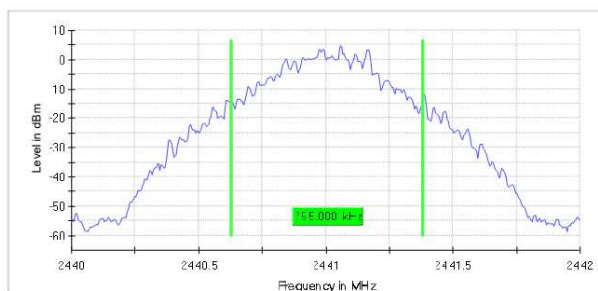
#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 0.755000        | ---             | ---             | 2440.627500          | 2441.382500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2441.000000         | PASS   |

99 % Bandwidth



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 9 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.22 dB          | 0.30 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)**

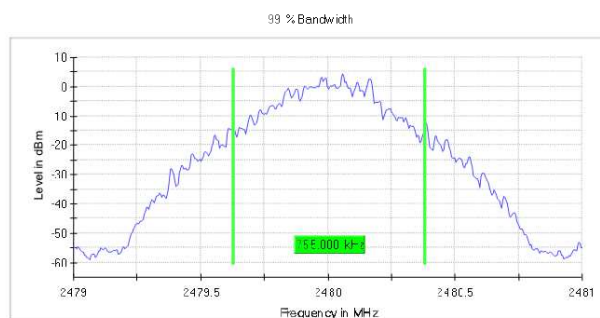
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

**99 % Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.755000        | ---             | ---             | 2479.627500          | 2480.382500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |



**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 6 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.26 dB          | 0.30 dB       |

## EDR mode (8DPSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

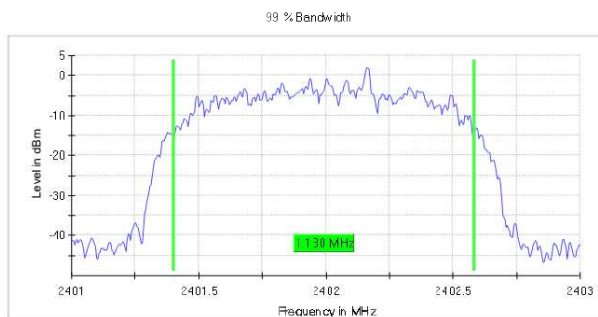
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.180000        | ---             | ---             | 2401.402500          | 2402.582500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 5 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.06 dB          | 0.30 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

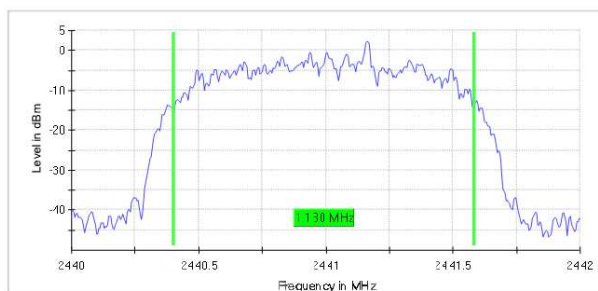
#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.180000        | ---             | ---             | 2440.402500          | 2441.582500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2441.000000         | PASS   |

99 % Bandwidth



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 9 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.09 dB          | 0.30 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

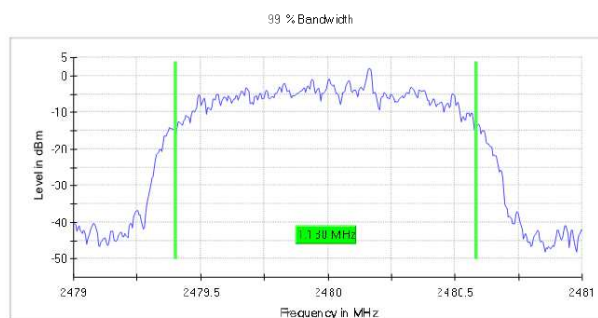
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.180000        | ---             | ---             | 2479.402500          | 2480.582500           |

(continuation of the "99 % Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.12 dB          | 0.30 dB       |

## Appendix B.2: Test Results of 20dB Bandwidth

### BDR mode (GFSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

#### Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

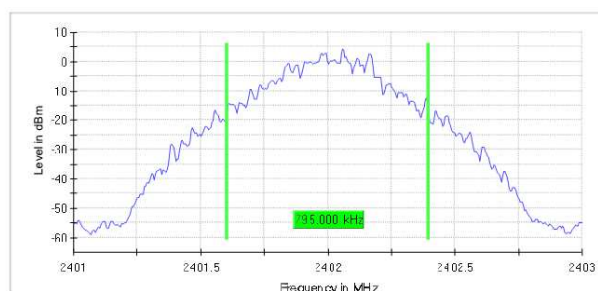
#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.795000        | ---             | ---             | 2401.602500          | 2402.397500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2402.000000         | 4.3             | PASS   |

20 dB Bandwidth



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 14 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.06 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

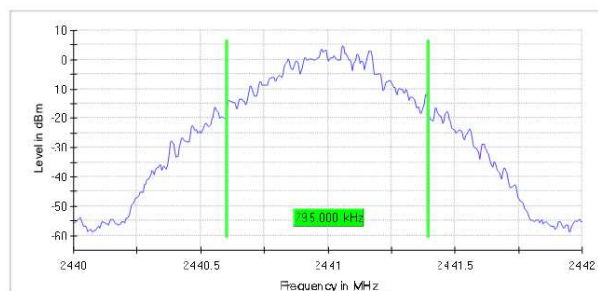
**20 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 0.795000        | ---             | ---             | 2440.602500          | 2441.397500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2441.000000         | 4.7             | PASS   |

20 dB Bandwidth



**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 9 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.09 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

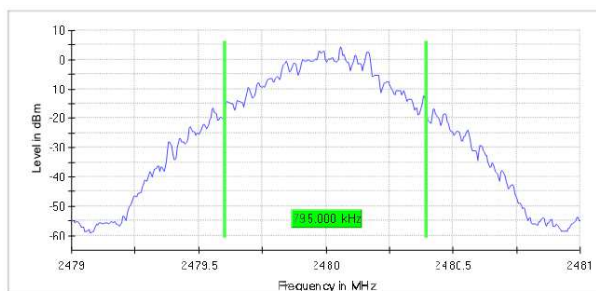
**20 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.795000        | ---             | ---             | 2479.602500          | 2480.397500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000         | 4.3             | PASS   |

20 dB Bandwidth



**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 13 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.07 dB          | 0.50 dB       |

## EDR mode (8DPSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

### Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

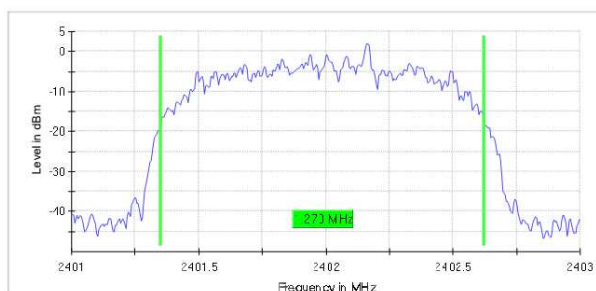
#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.270000        | ---             | ---             | 2401.352500          | 2402.622500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2402.000000         | 2.0             | PASS   |

20 dB Bandwidth



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 9 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.14 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

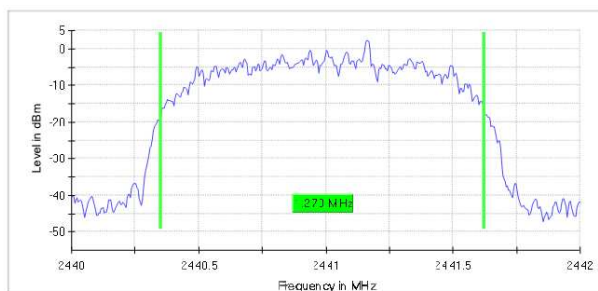
**20 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.270000        | ---             | ---             | 2440.352500          | 2441.622500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2441.000000         | 2.3             | PASS   |

20 dB Bandwidth



**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.06 dB          | 0.50 dB       |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

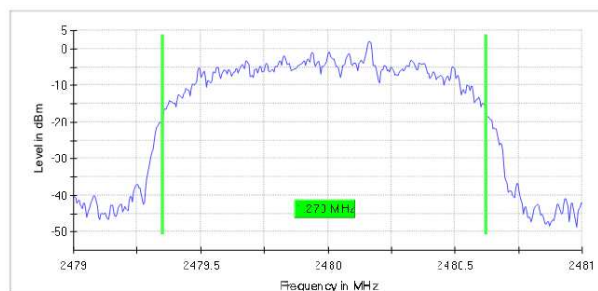
**20 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.270000        | ---             | ---             | 2479.352500          | 2480.622500           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000         | 1.9             | PASS   |

20 dB Bandwidth



**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 µs       | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 10 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.16 dB          | 0.50 dB       |

## Appendix B.3: Test Results of Carrier Frequency Separation

### BDR mode (GFSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

Carrier Frequency Separation (2402 MHz; 10.000 dBm; 1 MHz)

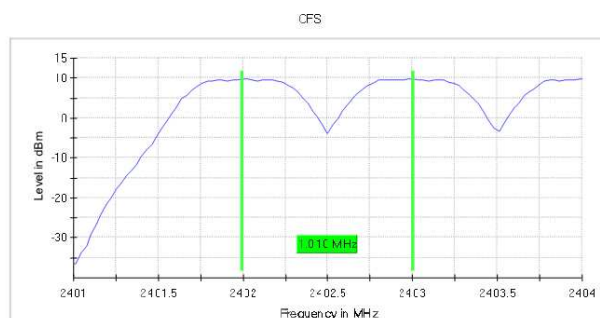
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2402.000000         | 1.009900                   | 0.530000        | ---             | 2401.995050                        | 2403.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz    |
| Stop Frequency        | 2.40400 GHz      | 2.40400 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 29 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.11 dB          | 0.50 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

### Carrier Frequency Separation (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

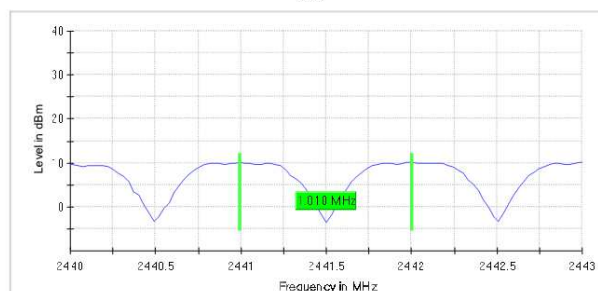
### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2441.000000         | 1.009900                   | 0.530000        | —               | 2440.995050                        | 2442.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2441.000000         | PASS   |

CFS



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz    |
| Stop Frequency        | 2.44300 GHz      | 2.44300 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 12 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

### Carrier Frequency Separation (2480 MHz; 10.000 dBm; 1 MHz)

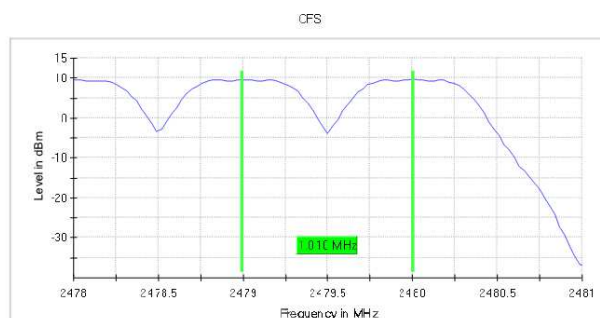
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2480.000000         | 1.009900                   | 0.530000        | —               | 2478.995050                        | 2480.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.47800 GHz      | 2.47800 GHz    |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 22 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## EDR mode (8DPSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Carrier Frequency Separation (2402 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

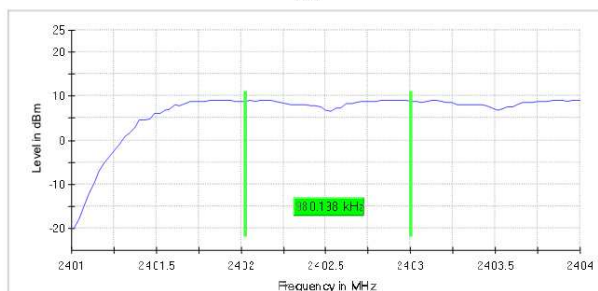
### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2402.000000         | 0.980198                   | 0.846667        | ---             | 2402.024752                        | 2403.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |

CFS



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz    |
| Stop Frequency        | 2.40400 GHz      | 2.40400 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 37 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.37 dB          | 0.50 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Carrier Frequency Separation (2441 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

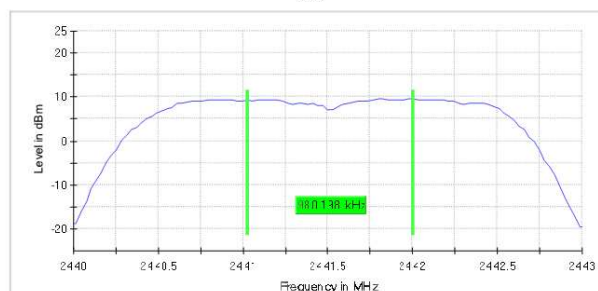
**Result**

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2441.000000         | 0.980198                   | 0.846667        | —               | 2441.024752                        | 2442.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2441.000000         | PASS   |

CFS



**Measurement**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz    |
| Stop Frequency        | 2.44300 GHz      | 2.44300 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 12 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.05 dB          | 0.50 dB        |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Carrier Frequency Separation (2480 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

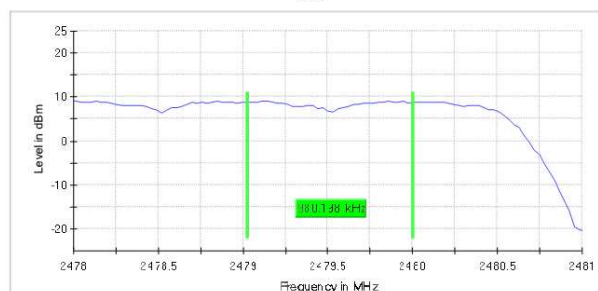
**Result**

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2480.000000         | 0.980198                   | 0.846667        | —               | 2479.024752                        | 2480.004950                         |

(continuation of the "Result" table from column 6 ...)

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |

CFS



**Measurement**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.47800 GHz      | 2.47800 GHz    |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz    |
| Span                  | 3.000 MHz        | 3.000 MHz      |
| RBW                   | 300.000 kHz      | <= 300.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 10           |
| SweepTime             | 1.000 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 200              | 200            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 42 / max. 150    | max. 150       |
| Stable                | 10 / 10          | 10             |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Appendix B.4: Test Results of Number of Hopping Frequency

### BDR mode (GFSK)

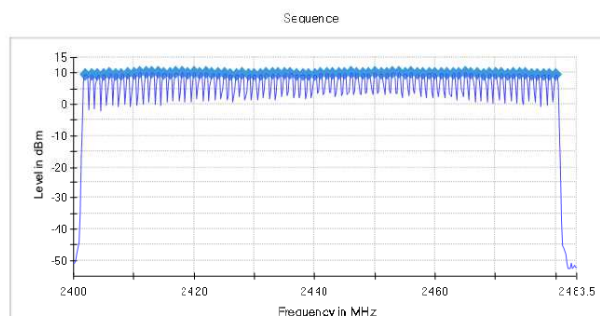
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### Channels

| Channels | Limit Min | Limit Max | Result |
|----------|-----------|-----------|--------|
| 79       | 15        | —         | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 200.000 kHz      | <= 299.000 kHz |
| VBW                   | 200.000 kHz      | >= 200.000 kHz |
| SweepPoints           | 418              | ~ 418          |
| SweepTime             | 1.060 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 59 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.29 dB          | 0.50 dB        |

## EDR mode (8DPSK)

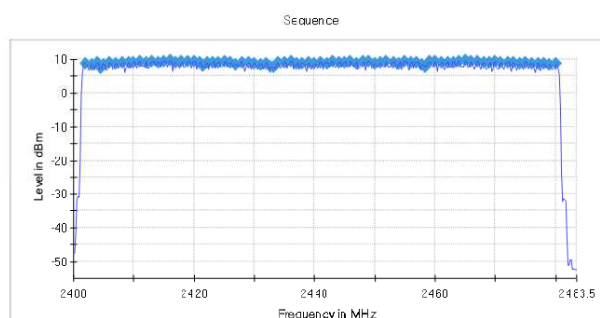
FCC Part 47 §15.247 2400-2483.5 MHz 2017

Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

### Channels

| Channels | Limit Min | Limit Max | Result |
|----------|-----------|-----------|--------|
| 83       | 15        | —         | PASS   |



### Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 200.000 kHz      | <= 299.000 kHz |
| VBW                   | 200.000 kHz      | >= 200.000 kHz |
| SweepPoints           | 418              | ~ 418          |
| SweepTime             | 1.060 ms         | AUTO           |
| Reference Level       | 0.000 dBm        | 0.000 dBm      |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 83 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.29 dB          | 0.50 dB        |

## Appendix B.5: Test Results of Time of Occupancy

### BDR mode (GFSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

#### Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 § 15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### Result

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 169            | 66.380                         | -10.0           |

#### Periode

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 5.000    | 774.980  | 186.856   |

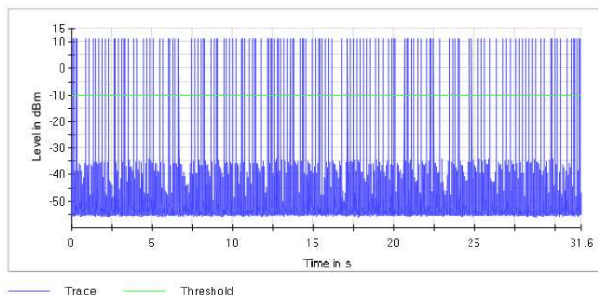
#### Transmit Time per Hop

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 0.39     | 0.40     | 400.000                | 0.000                  | 0.390     |

#### DwellTime

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 0.39     | 0.40     | 0.390     |

Time of Channel Occupancy



#### Measurement

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamplifier     | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

#### OSP

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

**Result**

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 162            | 268.400                        | -10.0           |

**Periode**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 5.000    | 764.980  | 187.962   |

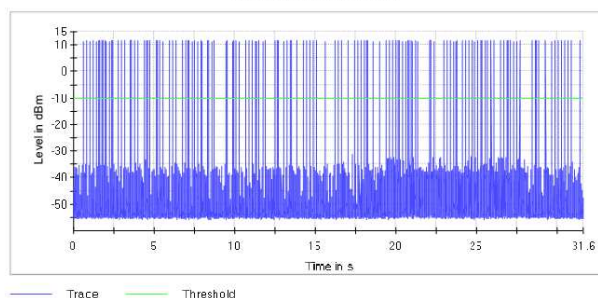
**Transmit Time per Hop**

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 1.640    | 1.650    | 400.000                | 0.000                  | 1.647     |

**DwellTime**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 1.640    | 1.650    | 1.647     |

Time of Channel Occupancy(2)



**Measurement**

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

**OSP**

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

**Result**

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 75             | 222.950                        | -10.0           |

**Periode**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 20.000   | 2169.960 | 421.005   |

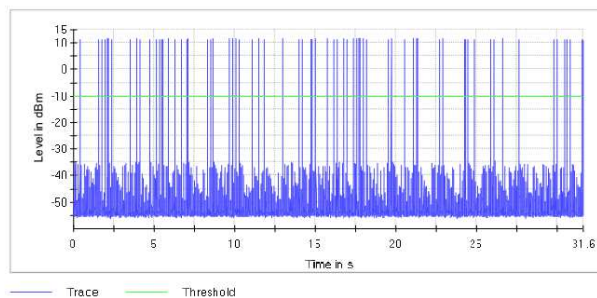
**Transmit Time per Hop**

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 2.890    | 5.800    | 400.000                | 0.000                  | 2.934     |

**DwellTime**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 2.890    | 7.900    | 2.962     |

Time of Channel Occupancy(3)



**Measurement**

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

**OSP**

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

## EDR mode (8DPSK)

FCC Part 47 §15.247 2400-2483.5 MHz 2017

### Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

#### Result

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 155            | 62.150                         | -10.0           |

#### Periode

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 5.000    | 764.980  | 202.577   |

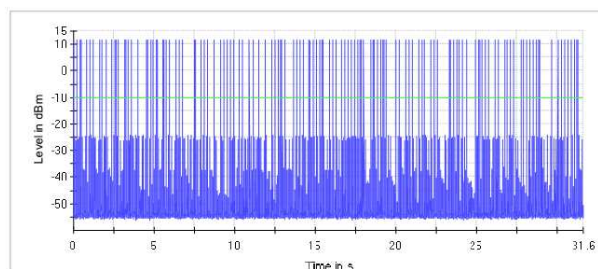
#### Transmit Time per Hop

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 0.39     | 0.40     | 400.000                | 0.000                  | 0.398     |

#### DwellTime

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 0.39     | 0.40     | 0.398     |

Time of Channel Occupancy



Trace Threshold

#### Measurement

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

#### OSP

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

**Result**

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 158            | 262.000                        | -10.0           |

**Periode**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 5.000    | 1022.480 | 200.044   |

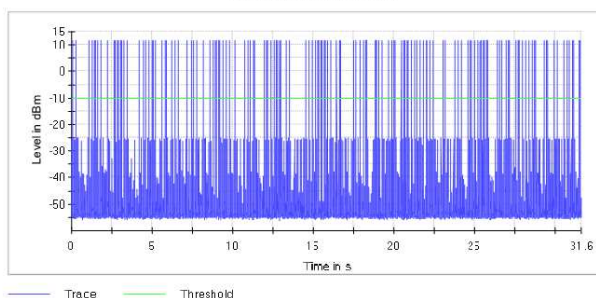
**Transmit Time per Hop**

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 1.640    | 1.650    | 400.000                | 0.000                  | 1.648     |

**DwellTime**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 1.640    | 1.650    | 1.648     |

Time of Channel Occupancy(2)



**Measurement**

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

**OSP**

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

FCC Part 47 §15.247 2400-2483.5 MHz 2017

**Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

**Result**

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 85             | 252.210                        | -10.0           |

**Periode**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 20.000   | 1364.970 | 371.243   |

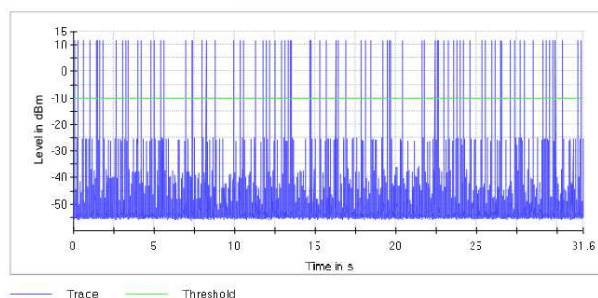
**Transmit Time per Hop**

| Min (ms) | Max (ms) | Limit Max for Max (ms) | Limit Min for Max (ms) | Mean (ms) |
|----------|----------|------------------------|------------------------|-----------|
| 2.890    | 5.800    | 400.000                | 0.000                  | 2.933     |

**DwellTime**

| Min (ms) | Max (ms) | Mean (ms) |
|----------|----------|-----------|
| 2.890    | 7.900    | 2.958     |

Time of Channel Occupancy(3)



**Measurement**

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

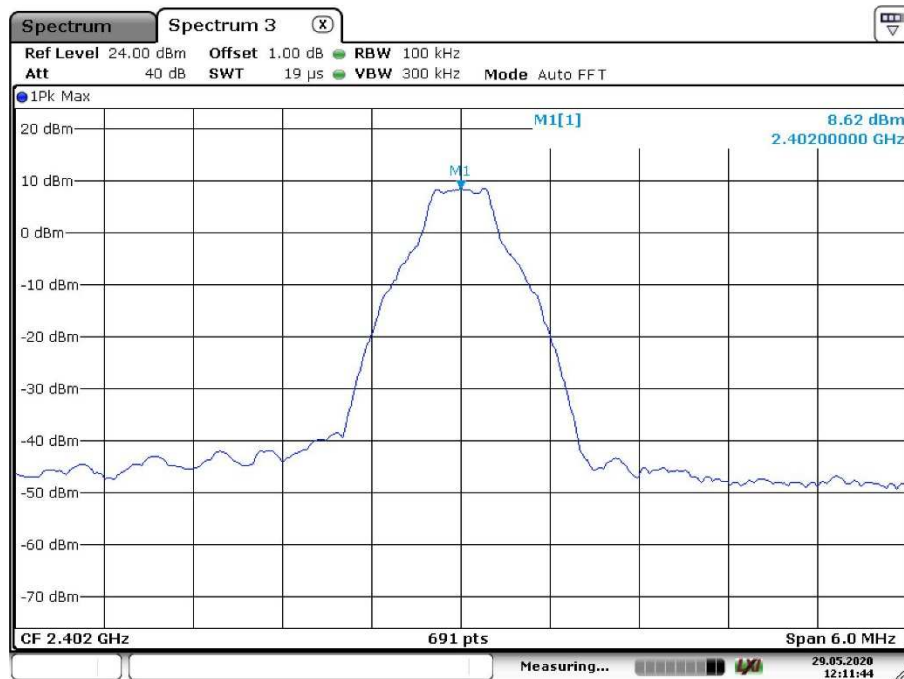
**OSP**

| Setting          | Instrument Value | Target Value |
|------------------|------------------|--------------|
| Measurement Time | 31.600 s         | 31.600 s     |
| Tracepoints      | 31600000         | 31600000     |
| Time resolution  | 1.000 µs         | 1.000 µs     |
| Detector         | RMS              | RMS          |

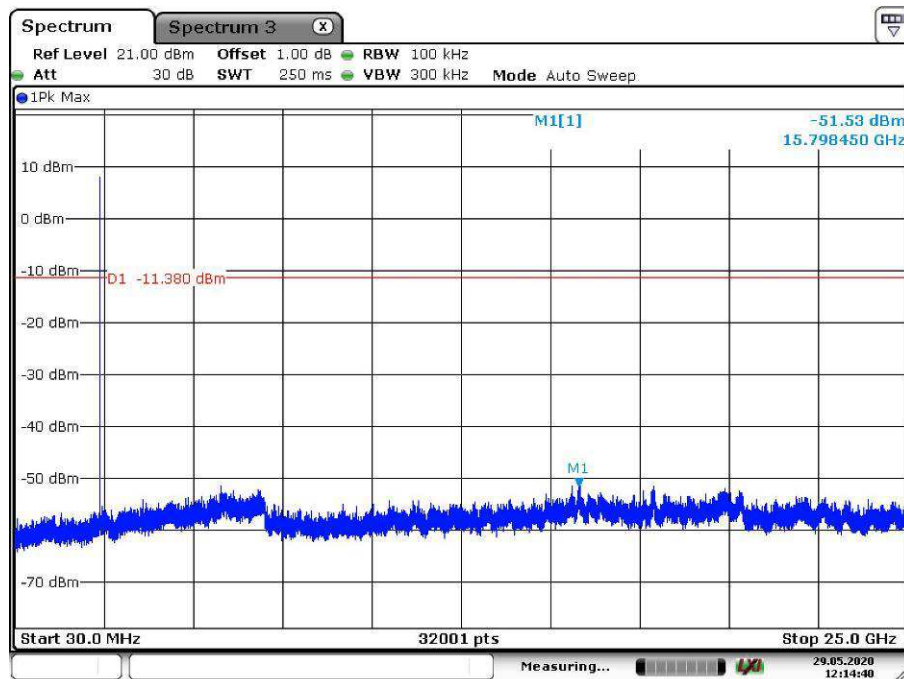
## Appendix B.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### BDR mode (GFSK)

Low Channel

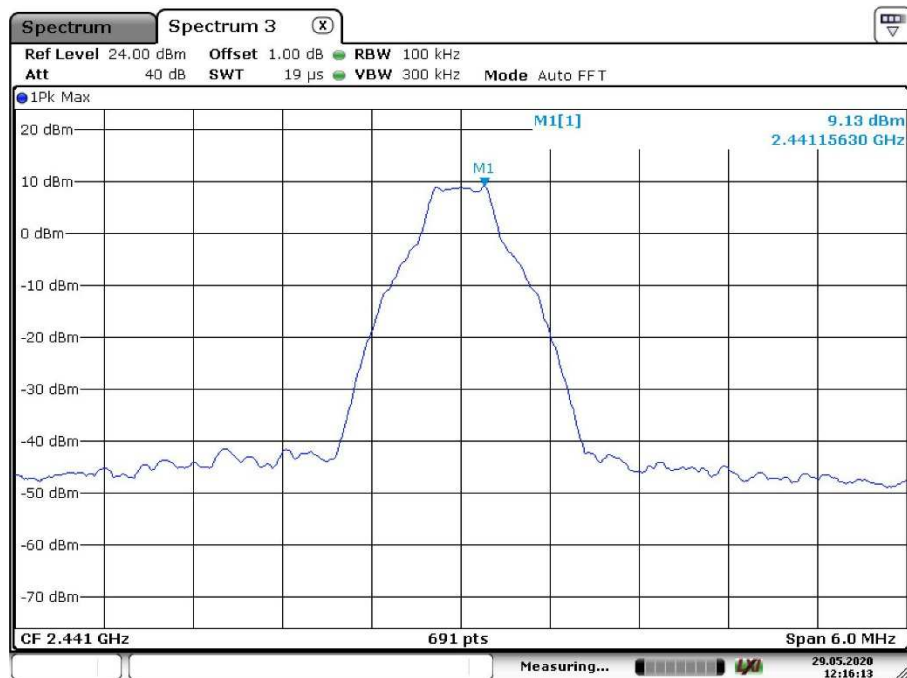


Date: 29.MAY.2020 12:11:44

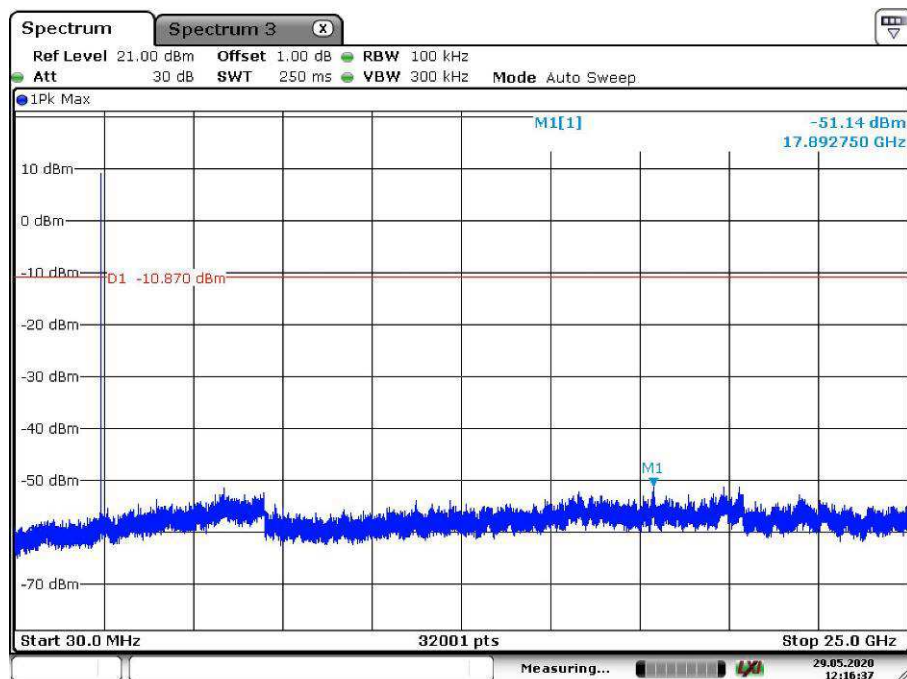


Date: 29.MAY.2020 12:14:41

Middle Channel

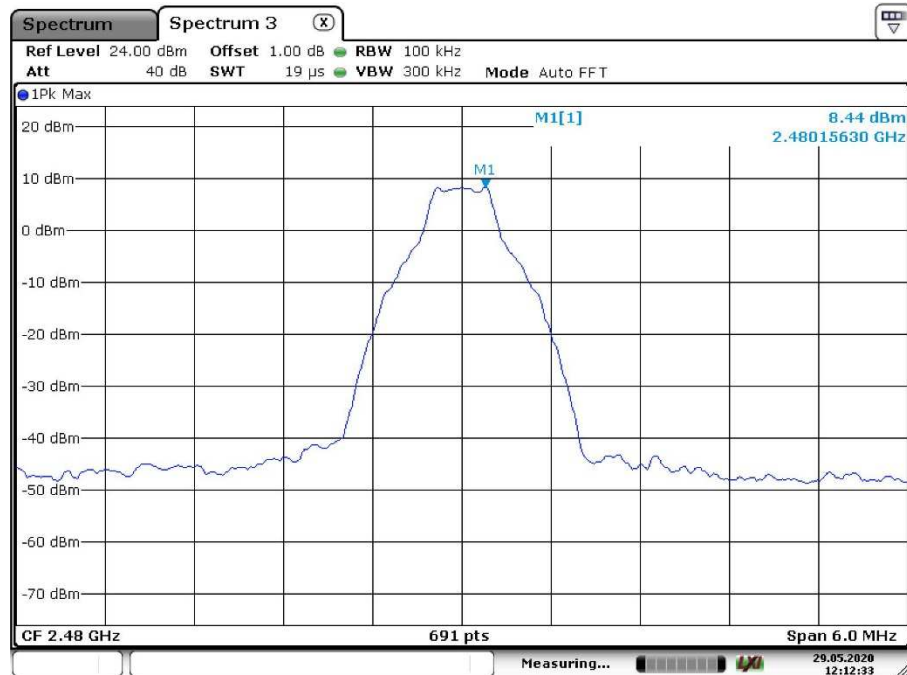


Date: 29.MAY.2020 12:16:13

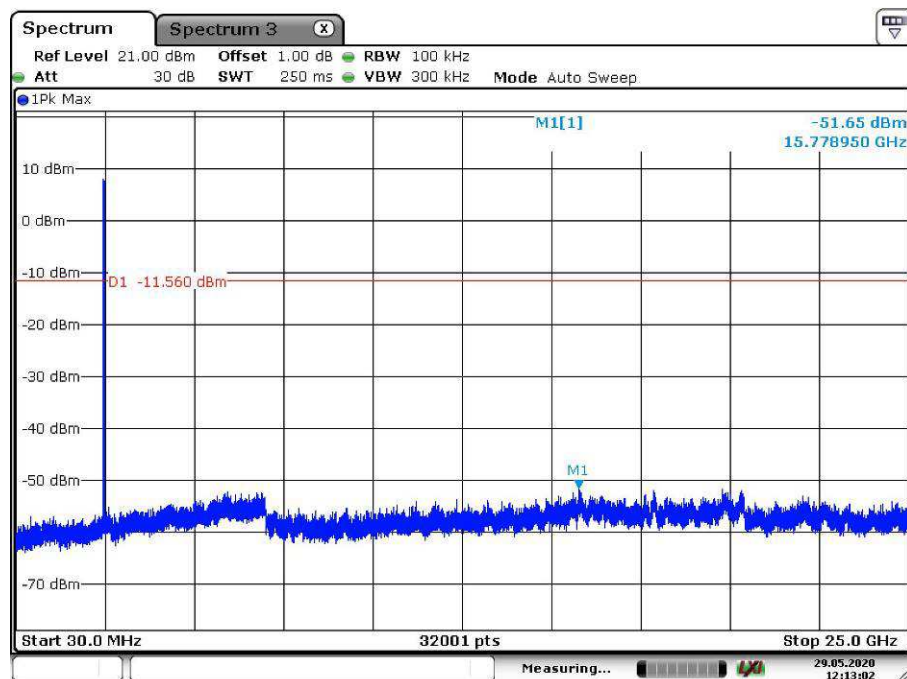


Date: 29.MAY.2020 12:16:37

## High Channel



Date: 29.MAY.2020 12:12:33



Date: 29.MAY.2020 12:13:02