

## FCC Part 15C Compliance Test Report

|                                                         |                                                                                                                                                                                                                                                                                 |                                   |                                                                                                                             |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Test Report no.:</b>                                 | FCC15CBTLE_RM-1116_15.docx                                                                                                                                                                                                                                                      | <b>Date of Report:</b>            | 30-Sep-2015                                                                                                                 |
| <b>Number of pages:</b>                                 | 20                                                                                                                                                                                                                                                                              | <b>Customer's Contact person:</b> | Tia Melava                                                                                                                  |
| <b>Testing laboratory:</b>                              | TCC Microsoft Salo Laboratory<br>P.O.Box(86)<br>Joensuunkatu 7E<br>FIN-24101 SALO, FINLAND<br>Tel. +358 (0) 7180 08000<br>Fax. +358 71 80 44122                                                                                                                                 | <b>Customer:</b>                  | Microsoft<br>P.O.Box(86)<br>Joensuunkatu 7E<br>FIN-24101 SALO, FINLAND<br>Tel. +358 (0) 7180 08000<br>Fax. +358 71 80 44122 |
| <b>FCC listing no.:</b>                                 | 533467                                                                                                                                                                                                                                                                          |                                   |                                                                                                                             |
| <b>IC recognition no.:</b>                              | 661V-1                                                                                                                                                                                                                                                                          |                                   |                                                                                                                             |
| <b>Tested devices/ accessories:</b>                     | <b>Phone RM-1116 / Dummy Battery SD-241R / Battery BV-T4D / Charger AC-100E / Headset WH-308</b>                                                                                                                                                                                |                                   |                                                                                                                             |
| <b>FCC ID:</b>                                          | PYARM-1116                                                                                                                                                                                                                                                                      | <b>IC:</b>                        | 661X-RM1116                                                                                                                 |
| <b>Supplement reports:</b>                              | -                                                                                                                                                                                                                                                                               |                                   |                                                                                                                             |
| <b>Testing has been carried out in accordance with:</b> | CFR 47, FCC rules Part 15 Subpart C, ANSI C63.4 (2014), DTS procedures KDB 558074, IC standards, RSS-210 (Issue 8, December 2010). Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit". |                                   |                                                                                                                             |
| <b>Documentation:</b>                                   | The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 15 years at TCC Microsoft.                        |                                   |                                                                                                                             |
| <b>Test Results:</b>                                    | <b>The EUT complies with the requirements in respect of all parameters subject to the test.</b><br>The test results relate only to devices specified in this document                                                                                                           |                                   |                                                                                                                             |
| <b>Date and signature for the contents:</b>             |                                                                                                                                                                                                                                                                                 |                                   |                                                                                                                             |

Timo Raiskio, System Manager, EMC

## 1. Summary for FCC Part 15C Compliance Test Report

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Date of receipt               | 15-Jun-2015                                           |
| Testing completed             | 02-Sep-2015                                           |
| The customer's contact person | Tia Melava                                            |
| Test Plan referred to         | T:\Projects\RM-1085\TestPlan\RS_TestPlan_RM-1085.xlsm |
| Notes                         | -                                                     |
| Document name                 | T:\Projects\RM-1116\EMC\FCC15CBTLE_RM-1116_15.docx    |

### 1.1. EUT and Accessory Information

The EUT is a mobile phone with following features:

GSM/WCDMA/WLAN/Bluetooth

The EUT is tested with maximum rated TX power.

Devices under tests

| Product       | Type    | SN                          | HW   | MV   | SW                      | DUT    |
|---------------|---------|-----------------------------|------|------|-------------------------|--------|
| Phone         | RM-1085 | 004402742320777;059W5J6     | 2111 | -    | 01063.00001.15244.09000 | 100012 |
| Dummy Battery | SD-241R | -                           | V2   | -    | -                       | 100016 |
| Phone         | RM-1085 | 004402742308475;059W5J6     | 2110 | -    | 01065.00000.15264.47000 | 100191 |
| Battery       | BV-T4D  | 495540517401030034260670771 | -    | -    | -                       | 100190 |
| Charger       | AC-100E | 409049512558030174860675758 | 0.3  | B2.0 | -                       | 100196 |
| Headset       | WH-308  | 51251B1                     | -    | -    | -                       | 100195 |
| Headset       | WH-308  | -                           | -    | -    | -                       | 100028 |
| Phone         | RM-1085 | 004402742308384;059W5J6     | 2110 | -    | 01063.00001.15244.09000 | 100024 |
| Battery       | BV-T4D  | 4955405174010300826;0670771 | v3.0 | -    | -                       | 100025 |

### 1.2. Summary of Test Results

Bluetooth Low Energy:

| Section in CFR 47    | Section in RSS-GEN or RSS-210 | Name of the test                     | Result |
|----------------------|-------------------------------|--------------------------------------|--------|
| 15.247(b)(1)         | A8.4(4)                       | Conducted peak output power          | PASSED |
| 15.247(d), 15.205(b) | A8.5                          | Band edge compliance of RF emissions | -      |
| 15.247(d)            | A8.5                          | Spurious RF conducted emissions      | PASSED |
| 15.247(d), 15.209    | A8.5                          | Spurious radiated emissions          | -      |
| 15.207               | 7.2.4                         | AC powerline conducted emissions     | PASSED |
| 15.247(a)(2)         | A8.2(a)                       | 6dB(bandwidth)                       | PASSED |
| 15.247(e)            | A8.2(b)                       | Power spectral density               | PASSED |

The test results of RM-1085 are re-used for certification of the RM-1116. The table above indicates the results, which will be re-used.

PASSED

FAILED

NP

The EUT complies with the essential requirements in the standard.

The EUT does not comply with the essential requirements in the standard.

The test was not performed by the TCC Microsoft Laboratory.

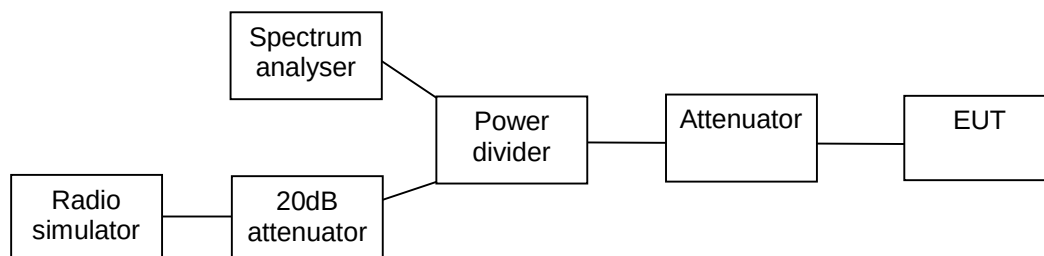
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## 2. Conducted peak output power (FCC §15.247(b)(1), RSS-210 A8.4(4))

|                                                    |                     |
|----------------------------------------------------|---------------------|
| EUT with DUT number                                | RM-1085, DUT 100012 |
| Accessories with DUT numbers                       | SD-241R, DUT 100016 |
| Operation Voltage [V] / [Hz]                       |                     |
| Results                                            |                     |
| Remarks                                            |                     |
| Temp [°C] / Humidity [%RH] /<br>Air Pressure [kPa] |                     |
| Date of measurements                               | 26-Jun-2015         |
| Measured by                                        | Tomi Lipponen       |

### 2.1. Test Setup



### 2.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

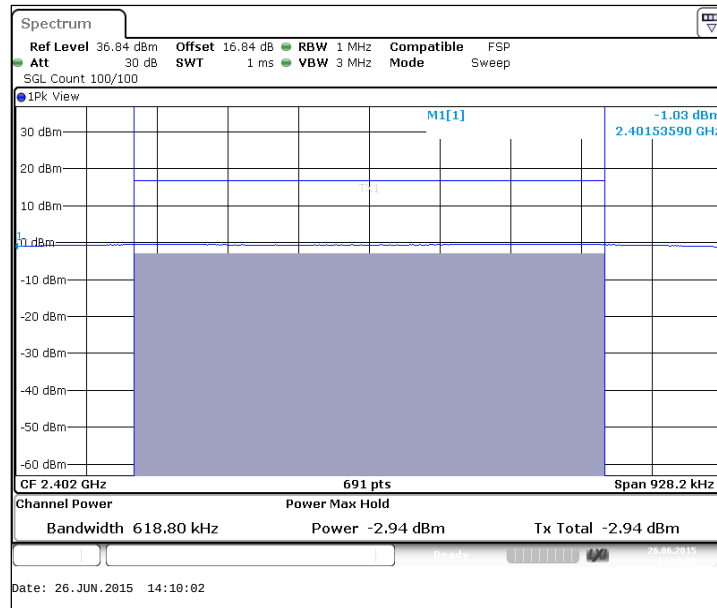
Limits for conducted peak output power measurements

| Frequency range [MHz]        | Limit [W] | Limit [dBm] |
|------------------------------|-----------|-------------|
| 2400 – 2483.5<br>5725 - 5850 | $\leq 1$  | $\leq 30$   |

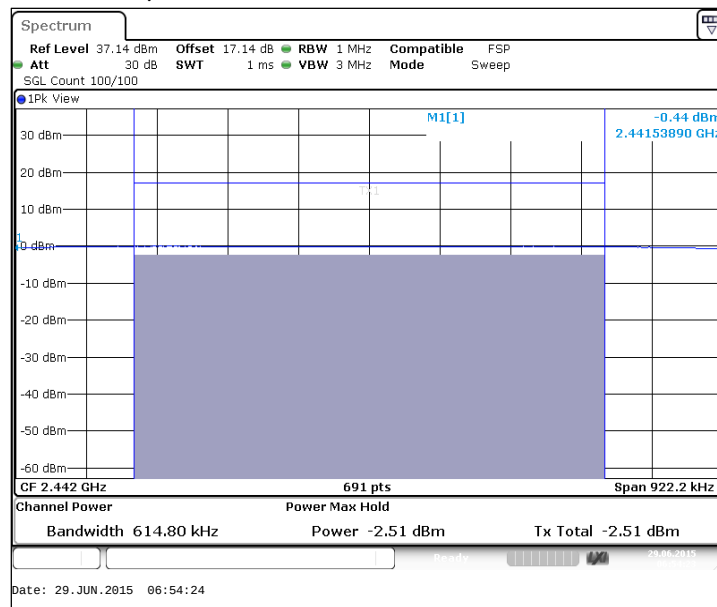
### 2.3. Bluetooth Low Energy Test results

| Channel / f <sub>c</sub> [MHz] | P [dBm] | P [mW] | Result |
|--------------------------------|---------|--------|--------|
| 0 / 2402                       | -2.94   | 0.508  | PASSED |
| 20 / 2442                      | -2.51   | 0.561  | PASSED |
| 39 / 2480                      | -4.05   | 0.394  | PASSED |

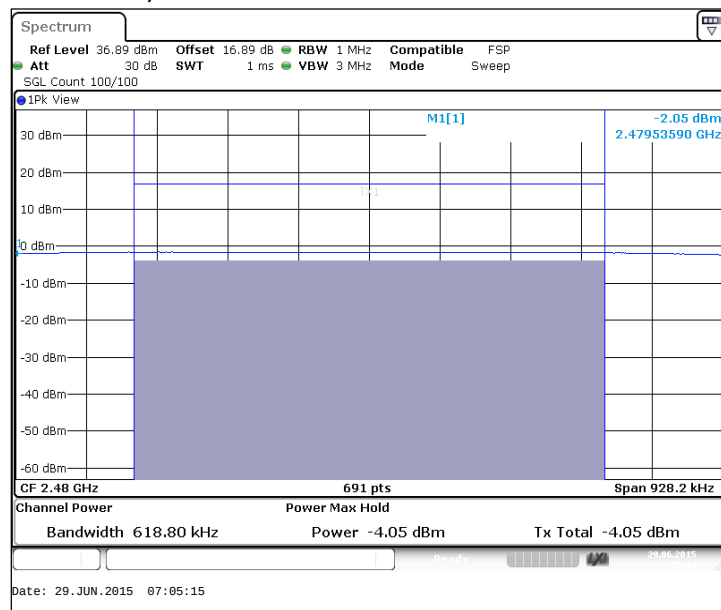
#### Channel 0 / 2402 MHz



#### Channel 20 / 2442 MHz



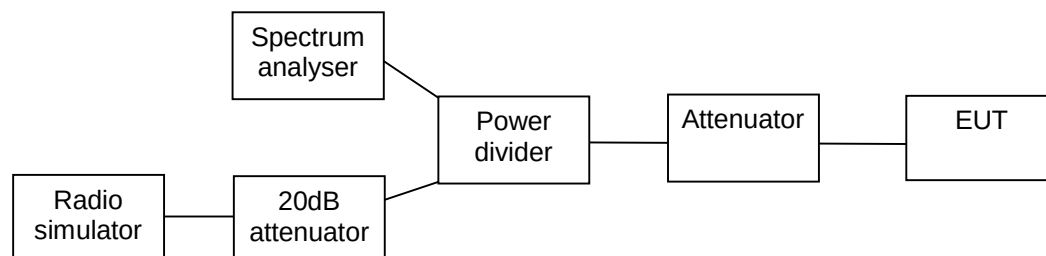
## Channel 39 / 2480 MHz



### 3. Spurious RF conducted emissions (FCC §15.247(d), RSS-210 A8.5)

|                                                        |                     |
|--------------------------------------------------------|---------------------|
| <b>EUT with DUT number</b>                             | RM-1085, DUT 100012 |
| <b>Accessories with DUT numbers</b>                    | SD-241R, DUT 100016 |
| <b>Operation Voltage [V] / [Hz]</b>                    |                     |
| <b>Results</b>                                         |                     |
| <b>Remarks</b>                                         |                     |
| <b>Temp [°C] / Humidity [%RH] / Air Pressure [kPa]</b> |                     |
| <b>Date of measurements</b>                            | 26-Jun-2015         |
| <b>Measured by</b>                                     | Tomi Lipponen       |

#### 3.1. Test Setup



#### 3.2. Test method and limit

The measurement is made according to Public notice KDB 558 074 and IC standard RSS-210.

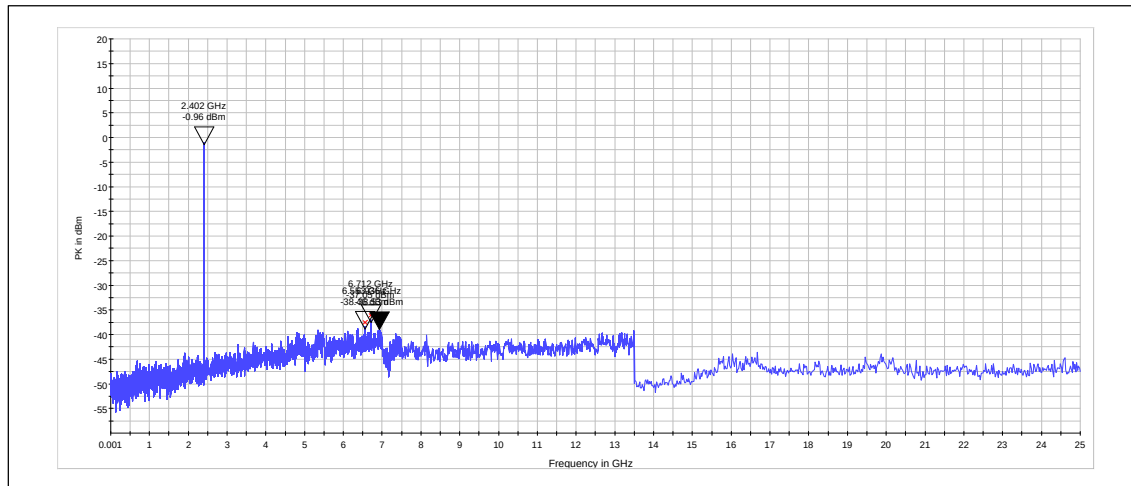
The reference level for the -20 dBc measurement was obtained as instructed in section 11.2 of the KDB 558074, using span of 1.5 times the OBW.

Limits for spurious RF conducted emissions measurements

| Frequency range [MHz] | Limit [dBc] |
|-----------------------|-------------|
| 1 – 25000             | <= -20      |

### 3.3. Bluetooth Low Energy Test results

Channel 0 / 2402 MHz

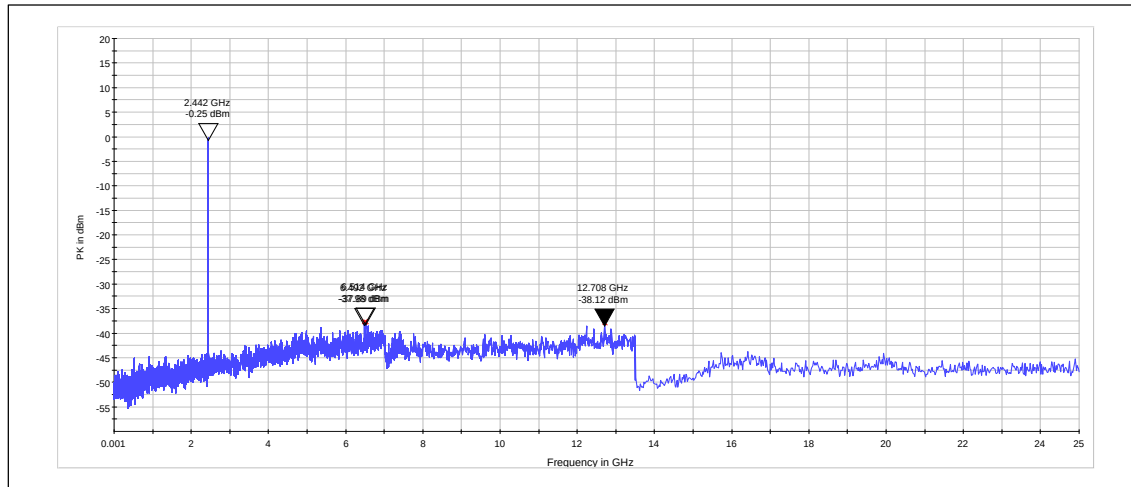


Peak (RBW: 100 kHz, VBW: 300 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 6711.600        | -36.09  | PASSED |
| 6553.200        | -37.50  | PASSED |
| 6936.000        | -37.57  | PASSED |



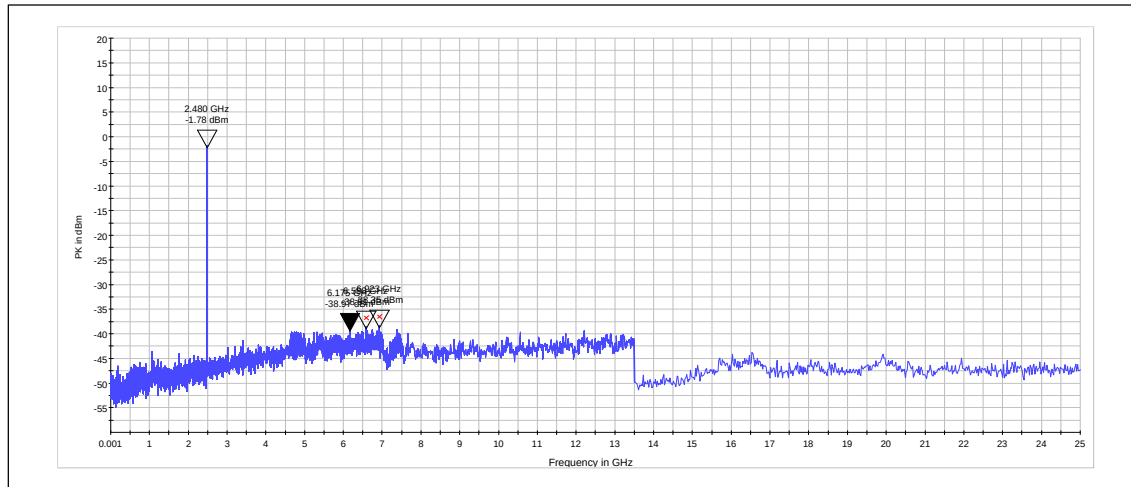
Channel 20 / 2442 MHz



Peak (RBW: 100 kHz, VBW: 300 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 6513.600        | -37.64  | PASSED |
| 6491.600        | -37.73  | PASSED |
| 12708.000       | -37.87  | PASSED |

## Channel 39 / 2480 MHz



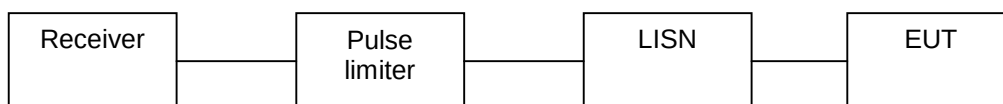
Peak (RBW: 100 kHz, VBW: 300 kHz)

| Frequency [MHz] | P [dBc] | Result |
|-----------------|---------|--------|
| 6922.800        | -36.57  | PASSED |
| 6588.400        | -36.72  | PASSED |
| 6174.800        | -37.18  | PASSED |

#### 4. AC powerline conducted emissions (FCC §15.207, RSS-210 7.2.4)

|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| EUT with DUT number                             | RM-1085, DUT 100024                                           |
| Accessories with DUT numbers                    | BV-T4D, DUT 100025 ; AC-100E, DUT 100026 ; WH-308, DUT 100028 |
| Operation Voltage [V] / [Hz]                    |                                                               |
| Results                                         |                                                               |
| Remarks                                         |                                                               |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] |                                                               |
| Date of measurements                            | 01-Jul-2015                                                   |
| Measured by                                     | Tomi Lipponen                                                 |

##### 4.1. Test Setup



##### 4.2. Test method and limit

The measurement is made according to procedure KDB 558074 and IC standard RSS-GEN as follows:

The EUT is placed on a wooden table 80 cm above the reference groundplane.

The EUT is connected via LISN to a test power supply.

The measurement results are obtained as described below:

$$U [dB\mu V] = U_{RX} + A_{TOT}$$

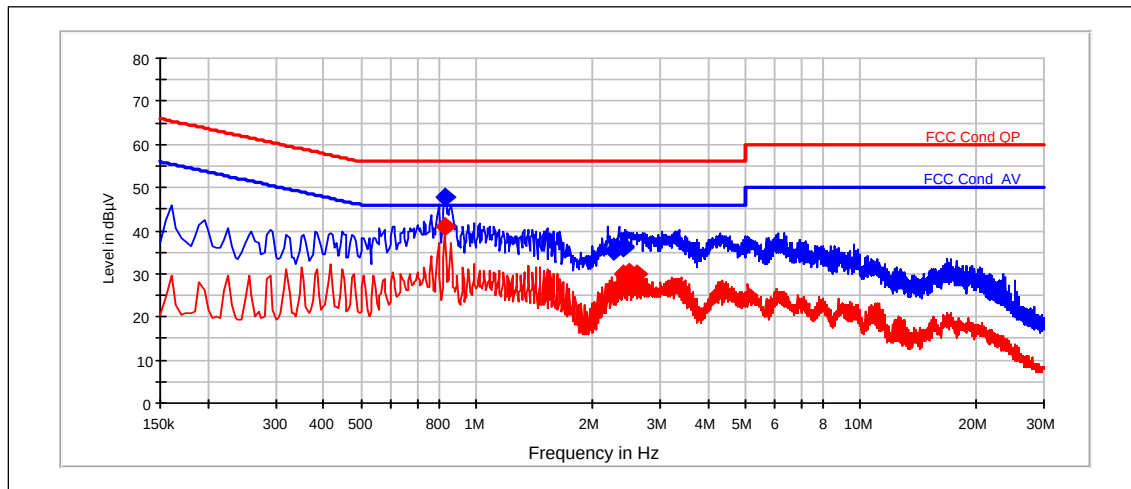
Where  $U_{RX}$  is receiver reading and  $A_{TOT}$  is total correction factor including cable and pulse limiter attenuations.

CISPR 22 Class B limits

| Frequency range [MHz] | Quasi peak limit [dBμV] | Average limit [dBμV] |
|-----------------------|-------------------------|----------------------|
| 0.15 - 0.5            | 66 - 56                 | 56 - 46              |
| 0.5 - 5               | 56                      | 46                   |
| 5 - 30                | 60                      | 50                   |

### 4.3. Bluetooth Low Energy Test results

Channel 20 / 2442 MHz



QuasiPeak (RBW: 9 kHz)

| Frequency [MHz] | U [dBμV] | Line | Result |
|-----------------|----------|------|--------|
| 0.825           | 47.86    | N    | PASSED |
| 2.28            | 35.4     | N    | PASSED |
| 2.405           | 36.46    | N    | PASSED |
| 2.42            | 35.9     | N    | PASSED |

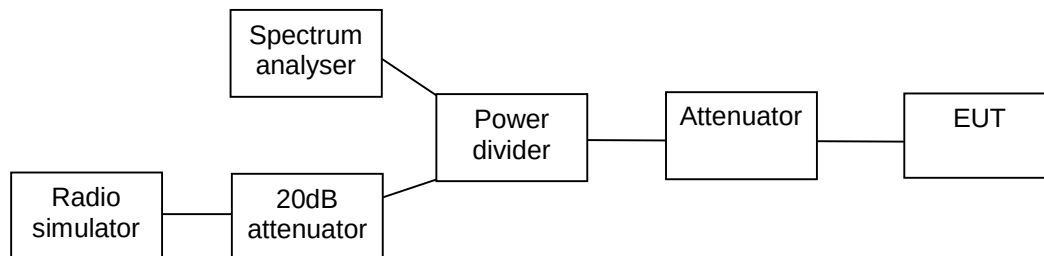
Average (RBW: 9 kHz)

| Frequency [MHz] | U [dBμV] | Line | Result |
|-----------------|----------|------|--------|
| 0.825           | 40.88    | N    | PASSED |
| 2.415           | 29.92    | N    | PASSED |
| 2.51            | 30.2     | N    | PASSED |
| 2.605           | 30       | N    | PASSED |

## 5. 6dB(bandwidth) (FCC §15.247(a)(2), RSS-210 A8.2(a))

|                                                 |                     |
|-------------------------------------------------|---------------------|
| EUT with DUT number                             | RM-1085, DUT 100012 |
| Accessories with DUT numbers                    | SD-241R, DUT 100016 |
| Operation Voltage [V] / [Hz]                    |                     |
| Results                                         |                     |
| Remarks                                         |                     |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] |                     |
| Date of measurements                            | 26-Jun-2015         |
| Measured by                                     | Tomi Lipponen       |

### 5.1. Test Setup



### 5.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

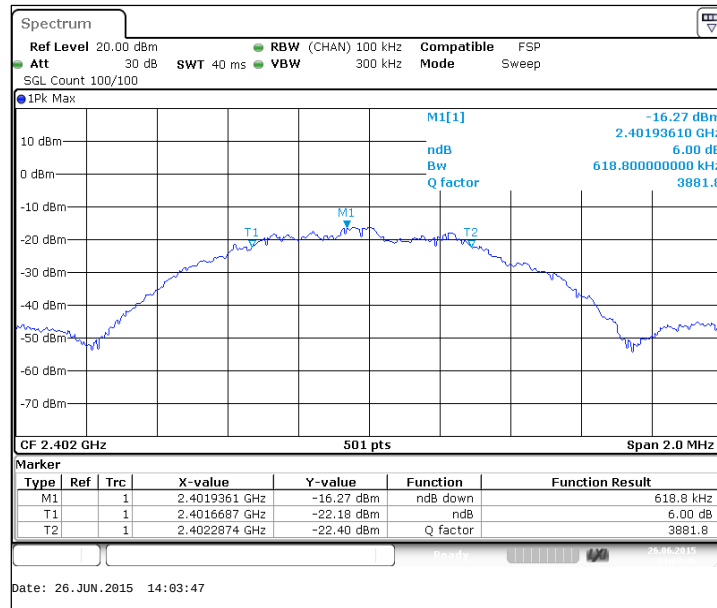
Limits for 6 dB bandwidth measurements

| Limit [kHz] |
|-------------|
| >= 500      |

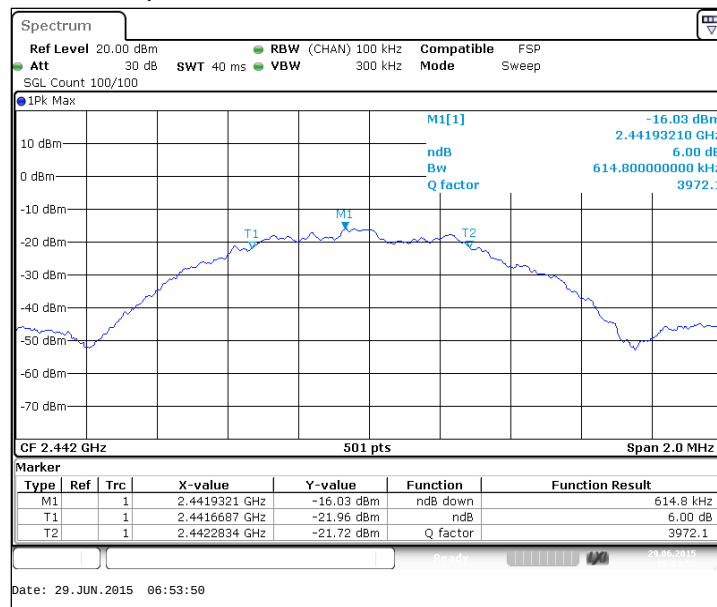
### 5.3. Bluetooth Low Energy Test results

| Channel / f <sub>c</sub> [MHz] | 6 dB bandwidth [kHz] | Result |
|--------------------------------|----------------------|--------|
| 0 / 2402                       | 618.8                | PASSED |
| 20 / 2442                      | 614.8                | PASSED |
| 39 / 2480                      | 618.8                | PASSED |

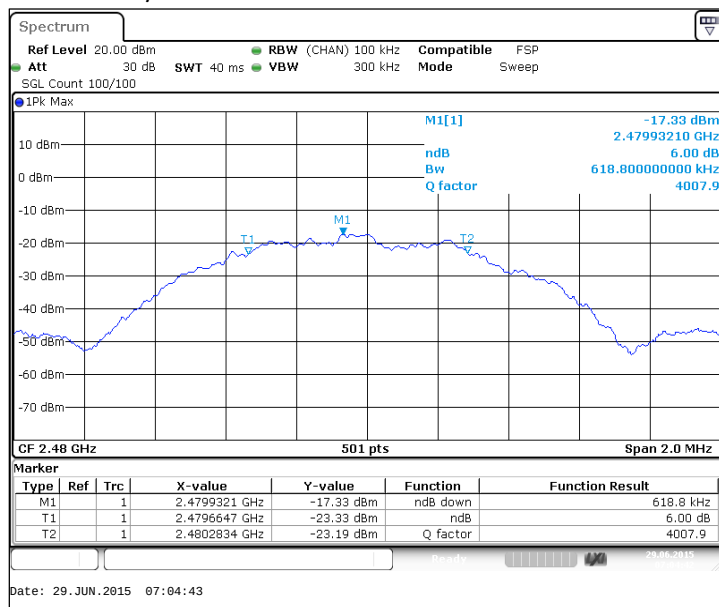
#### Channel 0 / 2402 MHz



#### Channel 20 / 2442 MHz



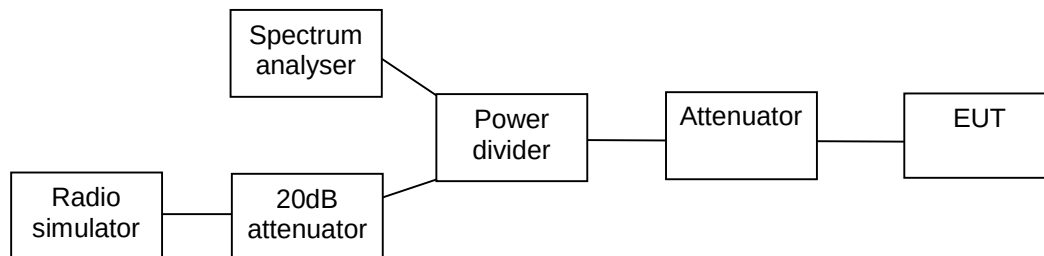
## Channel 39 / 2480 MHz



## 6. Power spectral density (FCC §15.247(e), RSS-210 A8.2(b))

|                                                 |                     |
|-------------------------------------------------|---------------------|
| EUT with DUT number                             | RM-1085, DUT 100012 |
| Accessories with DUT numbers                    | SD-241R, DUT 100016 |
| Operation Voltage [V] / [Hz]                    |                     |
| Results                                         |                     |
| Remarks                                         |                     |
| Temp [°C] / Humidity [%RH] / Air Pressure [kPa] |                     |
| Date of measurements                            | 26-Jun-2015         |
| Measured by                                     | Tomi Lipponen       |

### 6.1. Test Setup



### 6.2. Test method and limit

The measurement is made according to DTS procedures KDB 558074 and IC standard RSS-210.

Limits for power spectral density measurements

| Limit [dBm] @ 3 kHz |
|---------------------|
| <= 8                |

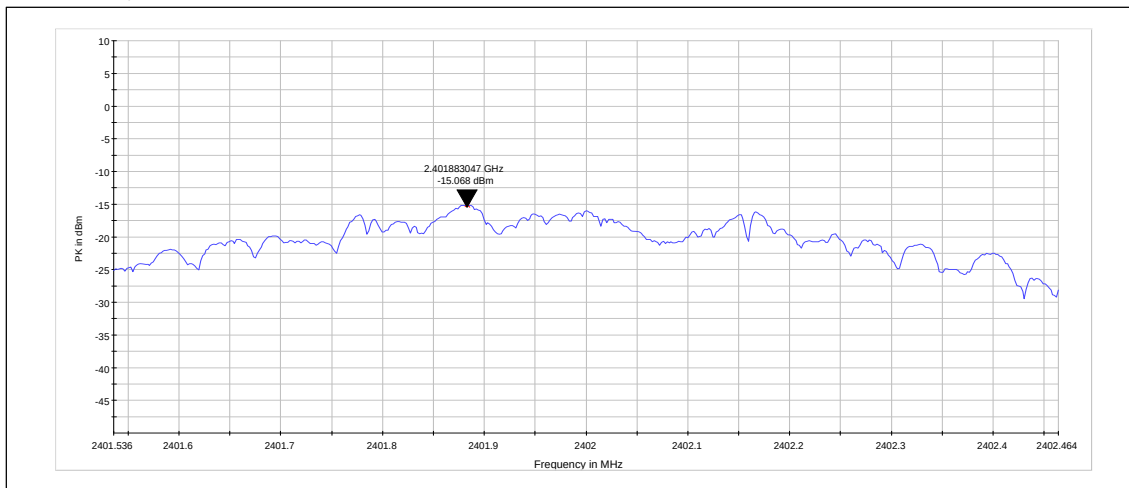


### 6.3. Bluetooth Low Energy Test results

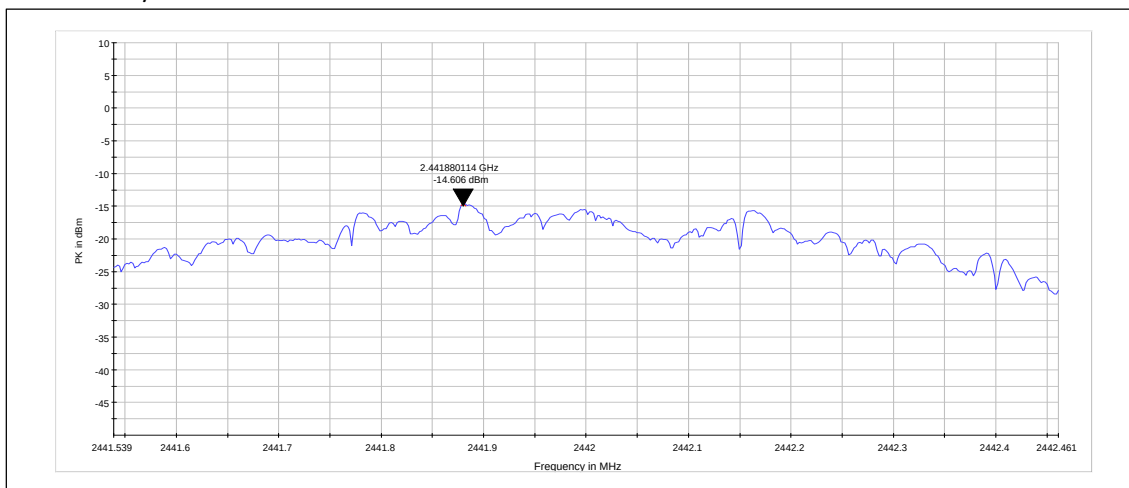
Peak (RBW: 3 kHz, VBW: 10 kHz, Max hold)

| Channel / $f_c$ [MHz] | P [dBm] | Result |
|-----------------------|---------|--------|
| 0 / 2402              | -15.07  | PASSED |
| 20 / 2442             | -14.61  | PASSED |
| 39 / 2480             | -16.13  | PASSED |

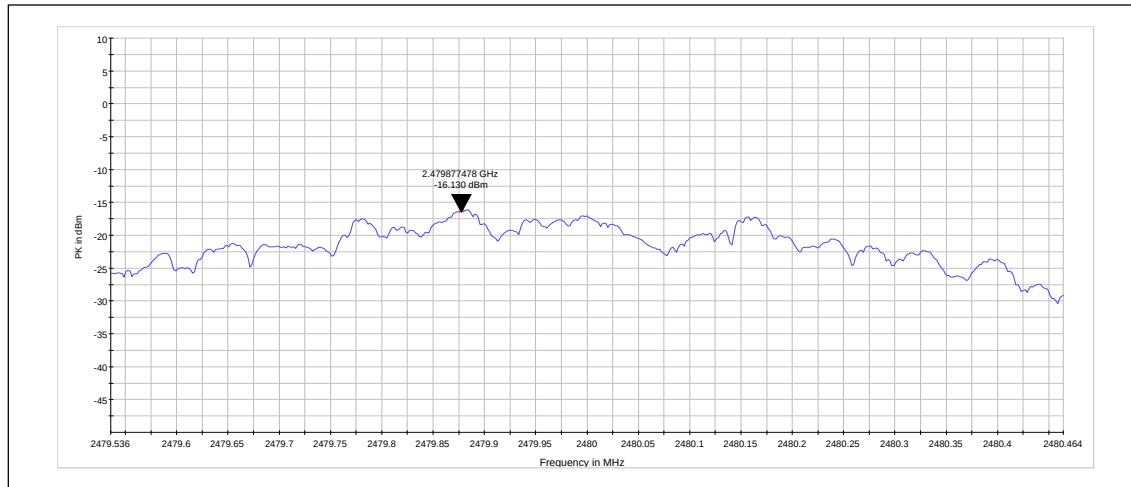
Channel 0 / 2402 MHz



Channel 20 / 2442 MHz



Channel 39 / 2480 MHz



## 7. Test Equipment

### 7.1. Conducted measurements

| Eq. No | Equipment                       | Type          | Manufacturer  | Used in            |
|--------|---------------------------------|---------------|---------------|--------------------|
| 6039   | USB Interface                   | 5541765       | Testo         | 22/24/27, 15C, 15B |
| 6044   | V-network                       | ESH3-Z6       | R&S           | -                  |
| 2059   | V-network                       | ESH3-Z6       | R&S           | -                  |
| 1759   | LISN 50 $\mu$ H                 | ESH3-Z5       | R&S           | 22/24/27, 15C, 15B |
| 2097   | Pulse Limiter                   | ESH3-Z2       | R&S           | 22/24/27, 15C, 15B |
| 1999   | Receiver                        | ESIB26        | R&S           | 22/24/27, 15C, 15B |
| 2180   | Communication Tester            | CMU200        | R&S           | 22/24/27, 15C, 15B |
| 2390   | Directional Coupler             | DC2600        | AR            | -                  |
| -      | RF immunity / Emission Software | EMC32         | R&S           | 22/24/27, 15C, 15B |
| 2060   | LISN 50 $\mu$ H                 | ESH3-Z5       | R&S           | 15C, 15B           |
| 1759   | LISN 50 $\mu$ H                 | ESH3-Z5       | R&S           | 15C, 15B           |
| 2039   | Power Supply                    | PL330QMD      | Thurlby       | 15C, 15B           |
| 6036   | Data Logger                     | 175-H2        | Testo         | 22/24/27, 15C, 15B |
| 2359   | Temperature Test Chamber        | VT4002        | Vötsch        | 22/24/27           |
| 2352   | Spectrum Analyzer               | FSP-30        | R&S           | 22/24/27, 15C      |
| 6109   | Communication Tester            | CMU200        | R&S           | 22/24/27, 15C      |
| 6246   | Power Supply                    | 66332A        | HP            | 22/24/27, 15C      |
| 1992   | Signal Generator                | 83630B        | Agilent       | 15C, 15B           |
| 6098   | Signal Generator                | 8648C         | Agilent       | -                  |
| 6046   | Attenuator 10dB                 | 8493C         | Agilent       | 22/24/27, 15C      |
| 6047   | Attenuator 20dB                 | 8493C         | Agilent       | 22/24/27, 15C      |
| 6045   | Power splitter                  | 11667B        | Agilent       | 22/24/27, 15C      |
| 6247   | Communication Tester            | CBT           | R&S           | 22/24/27, 15C 15B  |
| 6052   | Communication Tester            | CMU200        | R&S           | 22/24/27, 15C 15B  |
| 6248   | Power Supply                    | 6632B         | -             | 22/24/27, 15C 15B  |
| 6106   | Spectrum Analyzer               | FSP-30        | R&S           | 22/24/27, 15C 15B  |
| 6113   | Signal Generator                | SMF100A       | R&S           | 22/24/27, 15C 15B  |
| 6202   | Temperature Test Chamber        | VT4002        | Vötsch        | 22/24/27, 15C 15B  |
| 6122   | Power Splitter                  | 11667B        | Agilent       | 22/24/27, 15C 15B  |
| 6134   | Attenuator 10dB                 | BW-S10-2W263+ | Mini-Circuits | 22/24/27, 15C      |
| 6136   | Attenuator 20dB                 | BW-S20-2W263+ | Mini-Circuits | 22/24/27, 15C      |
| 6103   | Bluetooth tester                | CBT           | R&S           | 22/24/27, 15C 15B  |
| 6250   | Power Supply                    | 6651A         | Agilent       | 22/24/27, 15C 15B  |
| 6108   | Communication Tester            | CMU200        | R&S           | 22/24/27, 15C 15B  |
| 6105   | Spectrum Analyzer               | FSV-30        | R&S           | 22/24/27, 15C 15B  |
| 6251   | Temperature Test Chamber        | VT4002        | Vötsch        | 22/24/27, 15C 15B  |
| 6243   | Power Splitter                  | 1167B         | Agilent       | 22/24/27, 15C 15B  |
| 6245   | Attenuator 10dB                 | BW-S10-2W263+ | Mini-Circuits | 22/24/27, 15C 15B  |
| 6244   | Attenuator 20dB                 | BW-S20-2W263+ | Mini-Circuits | 22/24/27, 15C 15B  |

### 7.2. Radiated measurements

| Eq. No | Equipment                    | Type      | Manufacturer | Used in            |
|--------|------------------------------|-----------|--------------|--------------------|
| 2388   | Bluetooth Tester             | CBT       | R&S          | 15B                |
| 10479  | Communication Tester         | CMW500    | R&S          | 22/24/27, 15C, 15B |
| 2347   | Communication Tester         | CMU200    | R&S          | 22/24/27, 15C, 15B |
| 2009   | Signal Generator             | SMP 22    | R&S          | 22/24/27, 15C, 15B |
| 2348   | Controller                   | G-1000DXC | Yaesu        | 22/24/27, 15C, 15B |
| 2349   | Computer Controller          | g-1000DXC | Yaesu        | 22/24/27, 15C, 15B |
| 2116   | Controller                   | EMCO 2090 | ETS          | 22/24/27, 15C, 15B |
| 2109   | Power Supply                 | PL330QMD  | Thurlby      | 22/24/27, 15C, 15B |
| 2353   | Receiver                     | ESIB26    | R&S          | 22/24/27, 15C, 15B |
| 6115   | Open switch and control unit | OSP 130   | R&S          | 22/24/27, 15C 15B  |
| 6116   | Open switch and control unit | OSP 150   | R&S          | 22/24/27, 15C 15B  |

| Eq. No | Equipment                       | Type                                   | Manufacturer | Used in            |
|--------|---------------------------------|----------------------------------------|--------------|--------------------|
| 6117   | Open switch and control unit    | OSP 150                                | R&S          | 22/24/27, 15C, 15B |
| 6131   | Notch Filter                    | WRCT902.4-0.4/40-8SS                   | Wainwright   | 22/24/27, 15C, 15B |
| 6130   | Notch Filter                    | WRCD1880-1.1.25/50-10SS                | Wainwright   | 22/24/27           |
| 6159   | Band Reject Filter              | WRCD1747.8-0.4/40-5SS                  | Wainwright   | 22/24/27, 15C, 15B |
| 6158   | Band Reject Filter              | WRCT836.6-0.4/40-8SS                   | Wainwright   | 22/24/27, 15C, 15B |
| 6197   | Band Reject Filter              | WRCJV2531/2539-2523/2547-60/12SS       | Wainwright   | 22/24/27, 15C, 15B |
| 2231   | Band Reject Filter              | WRCG1947/1953-1940/1960-40/6SS         | Wainwright   | 22/24/27, 15C, 15B |
| 2391   | Band Reject Filter              | WRCG1729.4/1735.4-1722.4/1742.4-40/6SS | Wainwright   | 27                 |
| 2386   | Band Reject Filter              | WRCG1764.4/1770.4-1760.4/1774.4-40/6SS | Wainwright   | 22/24/27, 15C, 15B |
| 2385   | Band Reject Filter              | WRCG1744.4/1750.4-1740.4/1754.4-40/6SS | Wainwright   | 22/24/27, 15C, 15B |
| 2357   | Band Reject Filter              | WRCG2400/2483-2390/2493-35/10SS        | Wainwright   | 15C                |
| 2188   | Preamplifier                    | AFS4-00100300-20-23P-6                 | Miteq        | 22/24/27, 15C, 15B |
| 6195   | High Pass Filter                | -                                      | Wainwright   | 22/24/27, 15C, 15B |
| 2364   | Band Reject Filter              | WRCG1877/1883 - 1870/1890-40/6SS       | Wainwright   | 24                 |
| 2361   | Anechoic Chamber                | 3 m Semi / Full Anechoic Chamber       | Euroshield   | 22/24/27, 15C, 15B |
| 6212   | Antenna Array system            | -                                      | TCC          | 22/24/27, 15C, 15B |
| -      | RF immunity / Emission Software | EMC32                                  | R&S          | 22/24/27, 15C, 15B |
| 6089   | Antenna                         | HFH2-Z2                                | R&S          | 15C, 15B           |
| 2027   | CDN                             | M2 (modified) DC1                      | MEB          | 22/24/27, 15C, 15B |
| 2028   | CDN                             | M3 (modified) DC2                      | MEB          | 22/24/27, 15C, 15B |
| 2176   | CDN                             | CDN 801-M3                             | Lüthi        | 22/24/27, 15C, 15B |
| 2135   | CDN                             | CDN 801-M3                             | Lüthi        | 22/24/27, 15C, 15B |
| 2029   | Power Supply                    | PL330                                  | Thurlby      | 22/24/27, 15C      |
| 6038   | Data Logger                     | Testo 580                              | Testo        | 22/24/27, 15C, 15B |
| 6037   | Data Logger                     | 175-H2                                 | Testo        | 22/24/27, 15C, 15B |
| 6039   | USB Interface                   | 5541765                                | Testo        | 22/24/27, 15C, 15B |

## END OF REPORT