WIFI 5GHz Template: Release December 16th, 2016

# TEST REPORT

**N°: 153607-716366-A** **Version : 01**

**Subject** **Radio spectrum matters**
**tests according to standards:**
**47 CFR Part 15.407 & RSS-247 Issue 2 & RSS-Gen Issue 4 (RF Test Only)**

**Issued to**

**SAGEMCOM**
**250, route de l'Empereur**
**92848 – RUEIL MALMAISON**
**FRANCE**

**Apparatus under test**

| | |
|---|---|
| Product | **Home Router Fast 5260** |
| Trade mark | **SAGEMCOM** |
| Manufacturer | **SAGEMCOM** |
| Model under test | **FAST 5260** |
| Serial number | **NQ1736013023187** |
| FCC ID | **VW3FAST5260** |

| | |
|---|---|
| **Test date** | : February 5, 2018 to February 16, 2018 |
| **Test location** | Fontenay Aux Roses |
| **Composition of document** | 191 pages |
| **Document issued on** | April 24, 2018 |

**Written by :**
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**Tests operator**

**Approved by :**
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**Technical manager**

LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES RCS Nanterre B 408 363 174 L C I E F - 92260 FONTENAY AUX ROSES

## PUBLICATION HISTORY

| Version | Date | Author | Modification |
|---|---|---|---|
| 01 | February 28, 2018 | Armand MAHOUNGOU | Creation of the document |

## SUMMARY

# 1. TEST PROGRAM

**References**

- **47 CFR Part 15.407**
- **RSS 247 Issue 2**
- **RSS Gen Issue 4**
- **KDB 789033 D02 General U-NII Tests Procedures New Rules v01r02**
- **KDB 662911 D01 Multiple Transmitter Output v02r01**
- **ANSI C63.10-2013**

**Radio requirement:**

| Clause (47CFR Part 15.407 & RSS-247 Issue 2 & RSS-Gen Issue 4) Test Description | Test result - Comments | | | |
|---|---|---|---|---|
| Occupied Bandwidth | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| 26dB Bandwidth | ☑ PASS | ☐ FAIL | ☐ NA(2) | ☐ NP(1) |
| 6dB Bandwidth | ☑ PASS | ☐ FAIL | ☐ NA(3) | ☐ NP(1) |
| Duty Cycle | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| EIRP | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| Maximum Conducted Output Power | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| Power Spectral Density | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| Transmit Power Control | ☑ PASS | ☐ FAIL | ☐ NA(4) | ☐ NP(1) |
| AC Power Line Conducted Emission | ☑ PASS | ☐ FAIL | ☐ NA(5) | ☐ NP(1) |
| Unwanted Emissions & Undesirable Emission | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| Frequency Stability | ☑ PASS | ☐ FAIL | ☐ NA | ☐ NP(1) |
| This table is a summary of test report, see conclusion of each clause of this test report for detail. | | | | |

(1): Limited program
(2): EUT only operates outside the 5725MHz-5850MHz band
(3): EUT only operates inside the 5725MHz-5850MHz band
(4): EIRP below 27dBm or EUT only operates inside 5150MHz-5250MHz or/and 5725MHz-5850MHz bands
(5): EUT not directly or indirectly connected to the AC Power Public Network

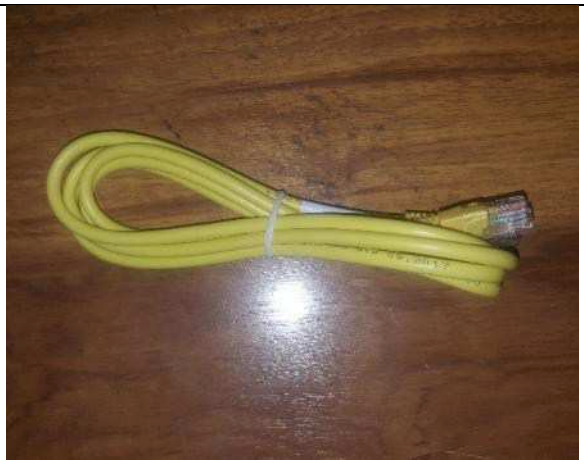
# 2. EQUIPMENT UNDER TEST: CONFIGURATION (DECLARED BY PROVIDER)

## 2.1. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

**Equipment under test (EUT):**
**SAGEMCOM FAST 5260** **Serial Number: NQ1736013023187**

**Front face**


**Back face**


**Ethernet cable**


**Power supply**

Equipment Under Test

**Power supply**


**Power supply**

**Power supply**

**Power supply**

Equipment Under Test

**Inputs/outputs - Cable:**

| Access | Type | Length used (m) | Declared <3m | Shielded | Under test | Comments |
|---|---|---|---|---|---|---|
| Power supply | - | - | ☐ | ☐ | ☐ | - |
| Ethernet cable | - | - | ☐ | ☐ | ☐ | - |

**Auxiliary equipment used during test:**

| Type | Reference | Sn | Comments |
|---|---|---|---|
| Wireless AC1750 Dual Band Gigabit Cloud Router | DLINK DIR-868L | RZ641E8004888 | FCC ID:RRK2012060056-1<br>IC ID: 4833A-WMCA01A1 |
| Laptop | - | - | Use to set the EUT & the communication traffic |
| Laptop | - | - | Use to set the EUT & the communication traffic |
| Power Supply N°1 | MSA-C2500IS12.0-30D-US | 191348119 | - |
| Power Supply N°2 | PL-D030120250ZL | 191367698 | - |
| Power Supply N°3 | NBS30E120250VU | 191287197 | - |

**Equipment information:**

| Type: | **WIFI** | | | |
|---|---|---|---|---|
| Frequency band: | ☑ 5150MHz-5250MHz | ☑ 5250MHz-5350MHz | ☑ 5470MHz-5725MHz | |
| | ☑ 5725MHz-5850MHz | | | |
| Standard: | ☑ 802.11a | ☑ 802.11n HT20 | ☑ 802.11n HT40 | |
| | ☑ 802.11ac VHT20 | ☑ 802.11ac VHT40 | ☑ 802.11ac VHT80 | |
| | ☐ 802.11ac VHT160 | | | |
| Spectrum Modulation: | ☑ OFDM | | | |
| Channel bandwidth: | ☑ 20MHz | ☑ 40MHz | ☑ 80MHz | ☐ 160MHz |
| Antenna Type: | ☑ Integral | ☐ External | ☐ Dedicated | |
| Antenna connector: | ☑ Yes | ☐ No | ☐ Temporary for test | |
| Transmit chains: | ☐ 1 | ☐ 2 | ☑ 3 | ☐ 4 |
| | ☐ 5 | ☐ 6 | ☐ 7 | ☐ 8 |
| TPC: | ☑ Yes | | ☐ No | |
| Receiver chains | ☐ 1 | ☐ 2 | ☑ 3 | ☐ 4 |
| | ☐ 5 | ☐ 6 | ☐ 7 | ☐ 8 |
| Type of equipment: | ☑ Stand-alone | ☐ Plug-in | ☐ Combined | |
| Operating temperature range: | Tmin: | ☐ -20°C | ☑ 0°C | ☐ X °C |
| | Tnom: | 20°C | | |
| | Tmax: | ☐ 35°C | ☐ 55°C | ☑ 40 °C |
| Type of power source: | ☑ AC power supply | ☐ DC power supply | ☐ Battery Battery Type | |
| Operating voltage range: | Vmin: | ☑ 100 V/60Hz | ☐ X Vdc | |
| | Vnom: | ☑ 110V/60Hz | ☐ X Vdc | |
| | Vmax | ☑ 120 V/60Hz | ☐ X Vdc | |
| Mode: | ☑ Master | ☐ Slave with radar detection | ☐ Slave without radar detection | |
| | ☐ Bridge | | ☐ Mesh | |
| Fixed outdoor P to P/M application: | ☐ Yes | | ☑ No | |
| System architectures: | ☑ IP based | | ☐ Frame based | |
| User access restriction: | ☑ Yes (The manufacturer declares that information regarding the parameters of the detected Radar Waveforms is not available to the end user) | | ☐ No | |

| Antenna Characteristic | | | |
|---|---|---|---|
| **Antenna assembly** | **Gain (dBi)** | **Frequency Band (MHz)** | **Impedance(Ω)** |
| 1 | 2.22 | 5150-5850 | 50 |
| 2 | 2.22 | 5150-5850 | 50 |
| 3 | 2.22 | 5150-5850 | 50 |
| Accumulated | 7 | 5180-5825 | 50 |

| Accumulated gain calculation | | |
|---|---|---|
| **Formula used for calculation** | **KDB** | **Correlated** |
| $Directional\ Gain = 10 * \log\left(\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + 10^{\frac{G_3}{20}} + \cdots + 10^{\frac{G_N}{20}}\right)^2}{N}\right)$ | KDB 662911 D01 v02r01* | ☑ Yes / ☐ No |

*§ F) 2) d) i)

| CHANNEL PLAN | | |
|---|---|---|
| 802.11a / 802.11n HT20/ 802.11ac VHT20 | | |
| **Channel** | **Frequency (MHz)** | **Available Channel** |
| **C1=36** | 5180 | ☑ |
| **C2=40** | 5200 | ☑ |
| **44** | 5220 | ☑ |
| **C3=48** | 5240 | ☑ |
| **C4=52** | 5260 | ☑ |
| **56** | 5280 | ☑ |
| **C5=60** | 5300 | ☑ |
| **C6=64** | 5320 | ☑ |
| **C7=100** | 5500 | ☑ |
| **104** | 5520 | ☑ |
| **108** | 5540 | ☑ |
| **112** | 5560 | ☑ |
| **C8=116** | 5580 | ☑ |
| **120** | 5600 | ☐ |
| **124** | 5620 | ☐ |
| **128** | 5640 | ☐ |
| **132** | 5660 | ☑ |
| **136** | 5680 | ☑ |
| **C9=140** | 5700 | ☑ |
| **C10=144** | 5720 | ☑ |
| **C11=149** | 5745 | ☐ |
| **153** | 5765 | ☑ |
| **C12=157** | 5785 | ☑ |
| **161** | 5805 | ☑ |
| **C13=165** | 5825 | ☑ |

| CHANNEL PLAN | | |
|---|---|---|
| 802.11n HT40/ 802.11ac VHT40 | | |
| **Channel** | **Frequency (MHz)** | **Available Channel** |
| **C14=36+40** | 5190 | ☑ |
| **C15=44+48** | 5230 | ☑ |
| **C16=52+56** | 5270 | ☑ |
| **C17=60+64** | 5310 | ☑ |
| **C18=100+104** | 5510 | ☑ |
| **C19=108+112** | 5550 | ☑ |
| **116+120** | 5590 | ☐ |
| **124+128** | 5630 | ☐ |
| **C20=132+136** | 5670 | ☑ |
| **C21=140+144** | 5710 | ☐ |
| **C22=149+153** | 5755 | ☑ |
| **C23=157+161** | 5795 | ☑ |

| CHANNEL PLAN | | |
|---|---|---|
| 802.11ac VHT80 | | |
| **Channel** | **Frequency (MHz)** | **Available Channel** |
| **C24=36+40+44+48** | 5210 | ☑ |
| **C25=52+56+60+64** | 5290 | ☑ |
| **C26=100+104+108+112** | 5530 | ☑ |
| **C27=116+120+124+128** | 5610 | ☐ |
| **C28=132+136+140+144** | 5690 | ☐ |
| **C29=149+153+157+161** | 5775 | ☑ |

| No DFS Channel |
|---|
| DFS Channel |
| Weather DFS Channel (Not Authorised for RSS-247) |

| DATA RATE | | |
|---|---|---|
| 802.11a | | |
| **Data Rate (Mbps)** | **Modulation Type** | **Modulation Worst Case** |
| 6 | BPSK | ☑ |
| 9 | BPSK | ☐ |
| 12 | QPSK | ☐ |
| 18 | QPSK | ☐ |
| 24 | 16-QAM | ☐ |
| 36 | 16-QAM | ☐ |
| 48 | 64-QAM | ☐ |
| 54 | 64-QAM | ☐ |

| DATA RATE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11n HT20 | | | | | | | | | |
| Available for EUT | MCS Index | Spatial streams | Modulation | | | | Data Rate (Mbps) | | Worst Case Modulation |
| | | | | | | | (GI = 800ns) | (GI = 400ns) | |
| ☑ | 0 | 1 | BPSK | | | | 6.5 | 7.2 | ☑ |
| | 1 | 1 | QPSK | | | | 13 | 14.4 | ☐ |
| | 2 | 1 | QPSK | | | | 19.5 | 21.7 | ☐ |
| | 3 | 1 | 16-QAM | | | | 26 | 28.9 | ☐ |
| | 4 | 1 | 16-QAM | | | | 39 | 43.3 | ☐ |
| | 5 | 1 | 64-QAM | | | | 52 | 57.8 | ☐ |
| | 6 | 1 | 64-QAM | | | | 58.5 | 65 | ☐ |
| | 7 | 1 | 64-QAM | | | | 65 | 72.2 | ☐ |
| ☑ | 8 | 2 | BPSK | | | | 13 | 14.4 | ☑ |
| | 9 | 2 | QPSK | | | | 26 | 28.9 | ☐ |
| | 10 | 2 | QPSK | | | | 39 | 43.3 | ☐ |
| | 11 | 2 | 16-QAM | | | | 52 | 57.8 | ☐ |
| | 12 | 2 | 16-QAM | | | | 78 | 86.7 | ☐ |
| | 13 | 2 | 64-QAM | | | | 104 | 115.6 | ☐ |
| | 14 | 2 | 64-QAM | | | | 117 | 130.3 | ☐ |
| | 15 | 2 | 64-QAM | | | | 130 | 144.4 | ☐ |
| ☑ | 16 | 3 | BPSK | | | | 19.5 | 21.7 | ☐ |
| | 17 | 3 | QPSK | | | | 39 | 43.3 | ☑ |
| | 18 | 3 | QPSK | | | | 58.5 | 65 | ☐ |
| | 19 | 3 | 16-QAM | | | | 78 | 86.7 | ☐ |
| | 20 | 3 | 16-QAM | | | | 117 | 130 | ☐ |
| | 21 | 3 | 64-QAM | | | | 156 | 173.3 | ☐ |
| | 22 | 3 | 64-QAM | | | | 175.5 | 195 | ☐ |
| | 23 | 3 | 64-QAM | | | | 195 | 216.7 | ☐ |
| ☐ | 24 | 4 | BPSK | | | | 26 | 28.9 | ☐ |
| | 25 | 4 | QPSK | | | | 52 | 57.8 | ☐ |
| | 26 | 4 | QPSK | | | | 78 | 86.7 | ☐ |
| | 27 | 4 | 16-QAM | | | | 104 | 115.6 | ☐ |
| | 28 | 4 | 16-QAM | | | | 156 | 173.3 | ☐ |
| | 29 | 4 | 64-QAM | | | | 208 | 231.1 | ☐ |
| | 30 | 4 | 64-QAM | | | | 234 | 260 | ☐ |
| | 31 | 4 | 64-QAM | | | | 260 | 288.9 | ☐ |
| ☐ | 32 | 1 | BPSK | - | - | - | - | - | ☐ |
| ☑ | 33 | 2 | 16-QAM | QPSK | - | - | 39 | 43.3 | ☐ |
| | 34 | 2 | 64-QAM | QPSK | - | - | 52 | 57.8 | ☐ |
| | 35 | 2 | 64-QAM | 16-QAM | - | - | 65 | 72.2 | ☐ |
| | 36 | 2 | 16-QAM | QPSK | - | - | 58.5 | 65 | ☐ |
| | 37 | 2 | 64-QAM | QPSK | - | - | 78 | 86.7 | ☐ |
| | 38 | 2 | 64-QAM | 16-QAM | - | - | 97.5 | 108.3 | ☐ |
| ☑ | 39 | 3 | 16-QAM | QPSK | QPSK | - | 52 | 57.8 | ☐ |
| | 40 | 3 | 16-QAM | 16-QAM | QPSK | - | 65 | 72.2 | ☐ |
| | 41 | 3 | 64-QAM | QPSK | QPSK | - | 65 | 72.2 | ☐ |
| | 42 | 3 | 64-QAM | 16-QAM | QPSK | - | 78 | 86.7 | ☐ |
| | 43 | 3 | 64-QAM | 16-QAM | 16-QAM | - | 91 | 101.1 | ☐ |
| | 44 | 3 | 64-QAM | 64-QAM | QPSK | - | 91 | 101.1 | ☐ |
| | 45 | 3 | 64-QAM | 64-QAM | 16-QAM | - | 104 | 115.6 | ☐ |
| | 46 | 3 | 16-QAM | QPSK | QPSK | - | 78 | 86.7 | ☐ |
| | 47 | 3 | 16-QAM | 16-QAM | QPSK | - | 97.5 | 108.3 | ☐ |
| | 48 | 3 | 64-QAM | QPSK | QPSK | - | 97.5 | 108.3 | ☐ |
| | 49 | 3 | 64-QAM | 16-QAM | QPSK | - | 117 | 130 | ☐ |
| | 50 | 3 | 64-QAM | 16-QAM | 16-QAM | - | 136.5 | 151.7 | ☐ |
| | 51 | 3 | 64-QAM | 64-QAM | QPSK | - | 136.5 | 151.7 | ☐ |
| | 52 | 3 | 64-QAM | 64-QAM | 16-QAM | - | 156 | 173.3 | ☐ |
| ☐ | 53 | 4 | 16-QAM | QPSK | QPSK | QPSK | 65 | 72.2 | ☐ |
| | 54 | 4 | 16-QAM | 16-QAM | QPSK | QPSK | 78 | 86.7 | ☐ |
| | 55 | 4 | 16-QAM | 16-QAM | 16-QAM | QPSK | 91 | 101.1 | ☐ |
| | 56 | 4 | 64-QAM | QPSK | QPSK | QPSK | 78 | 86.7 | ☐ |
| | 57 | 4 | 64-QAM | 16-QAM | QPSK | QPSK | 91 | 101.1 | ☐ |
| | 58 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 104 | 115.6 | ☐ |
| | 59 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 117 | 130 | ☐ |
| | 60 | 4 | 64-QAM | QPSK | QPSK | QPSK | 104 | 115.6 | ☐ |
| | 61 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 117 | 130 | ☐ |
| | 62 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 130 | 144.4 | ☐ |
| | 63 | 4 | 64-QAM | 64-QAM | 64-QAM | QPSK | 130 | 144.4 | ☐ |
| | 64 | 4 | 64-QAM | 64-QAM | 64-QAM | 16-QAM | 143 | 158.9 | ☐ |
| | 65 | 4 | 16-QAM | QPSK | QPSK | QPSK | 97.5 | 108.3 | ☐ |
| | 66 | 4 | 16-QAM | 16-QAM | QPSK | QPSK | 117 | 130 | ☐ |
| | 67 | 4 | 16-QAM | 16-QAM | 16-QAM | QPSK | 136.5 | 151.7 | ☐ |
| | 68 | 4 | 64-QAM | QPSK | QPSK | QPSK | 117 | 130 | ☐ |
| | 69 | 4 | 64-QAM | 16-QAM | QPSK | QPSK | 136.5 | 151.7 | ☐ |
| | 70 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 156 | 173.3 | ☐ |
| | 71 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 175.5 | 195 | ☐ |
| | 72 | 4 | 64-QAM | 64-QAM | QPSK | QPSK | 156 | 173.3 | ☐ |
| | 73 | 4 | 64-QAM | 64-QAM | 16-QAM | QPSK | 175.5 | 195 | ☐ |
| | 74 | 4 | 64-QAM | 64-QAM | 16-QAM | 16-QAM | 195 | 216.7 | ☐ |
| | 75 | 4 | 64-QAM | 64-QAM | 64-QAM | QPSK | 195 | 216.7 | ☐ |
| | 76 | 4 | 64-QAM | 64-QAM | 64-QAM | 16-QAM | 214.5 | 238.3 | ☐ |

| DATA RATE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11n HT40 | | | | | | | | | |
| Available for EUT | MCS Index | Spatial streams | Modulation | | | | Data Rate (Mbps) | | Worst Case Modulation |
| | | | | | | | (GI = 800ns) | (GI = 400ns) | |
| | 0 | 1 | BPSK | | | | 13 | 15 | ☑ |
| | 1 | 1 | QPSK | | | | 27 | 30 | ☐ |
| | 2 | 1 | QPSK | | | | 40.5 | 45 | ☐ |
| ☑ | 3 | 1 | 16-QAM | | | | 54 | 60 | ☐ |
| | 4 | 1 | 16-QAM | | | | 81 | 90 | ☐ |
| | 5 | 1 | 64-QAM | | | | 108 | 120 | ☐ |
| | 6 | 1 | 64-QAM | | | | 121.5 | 135 | ☐ |
| | 7 | 1 | 64-QAM | | | | 135 | 150 | ☐ |
| | 8 | 2 | BPSK | | | | 27 | 30 | ☑ |
| | 9 | 2 | QPSK | | | | 54 | 60 | ☐ |
| | 10 | 2 | QPSK | | | | 81 | 90 | ☐ |
| ☑ | 11 | 2 | 16-QAM | | | | 108 | 120 | ☐ |
| | 12 | 2 | 16-QAM | | | | 162 | 180 | ☐ |
| | 13 | 2 | 64-QAM | | | | 216 | 240 | ☐ |
| | 14 | 2 | 64-QAM | | | | 243 | 270 | ☐ |
| | 15 | 2 | 64-QAM | | | | 270 | 300 | ☐ |
| | 16 | 3 | BPSK | | | | 40.5 | 45 | ☑ |
| | 17 | 3 | QPSK | | | | 81 | 90 | ☐ |
| | 18 | 3 | QPSK | | | | 121.5 | 135 | ☐ |
| ☑ | 19 | 3 | 16-QAM | | | | 162 | 180 | ☐ |
| | 20 | 3 | 16-QAM | | | | 243 | 270 | ☐ |
| | 21 | 3 | 64-QAM | | | | 324 | 360 | ☐ |
| | 22 | 3 | 64-QAM | | | | 364.5 | 405 | ☐ |
| | 23 | 3 | 64-QAM | | | | 405 | 450 | ☐ |
| | 24 | 4 | BPSK | | | | 54 | 60 | ☐ |
| | 25 | 4 | QPSK | | | | 108 | 120 | ☐ |
| | 26 | 4 | QPSK | | | | 162 | 180 | ☐ |
| ☐ | 27 | 4 | 16-QAM | | | | 216 | 240 | ☐ |
| | 28 | 4 | 16-QAM | | | | 324 | 360 | ☐ |
| | 29 | 4 | 64-QAM | | | | 432 | 480 | ☐ |
| | 30 | 4 | 64-QAM | | | | 486 | 540 | ☐ |
| | 31 | 4 | 64-QAM | | | | 540 | 600 | ☐ |
| ☑ | 32 | 1 | BPSK | - | - | - | 6.0 | 6.7 | ☑ |
| | 33 | 2 | 16-QAM | QPSK | - | - | 81 | 90.0 | ☐ |
| | 34 | 2 | 64-QAM | QPSK | - | - | 108 | 120 | ☐ |
| ☑ | 35 | 2 | 64-QAM | 16-QAM | - | - | 135 | 150 | ☐ |
| | 36 | 2 | 16-QAM | QPSK | - | - | 121.5 | 135 | ☐ |
| | 37 | 2 | 64-QAM | QPSK | - | - | 162 | 180 | ☐ |
| | 38 | 2 | 64-QAM | 16-QAM | - | - | 202.5 | 225 | ☐ |
| | 39 | 3 | 16-QAM | QPSK | QPSK | - | 108 | 120 | ☐ |
| | 40 | 3 | 16-QAM | 16-QAM | QPSK | - | 135 | 150 | ☐ |
| | 41 | 3 | 64-QAM | QPSK | QPSK | - | 135 | 150 | ☐ |
| | 42 | 3 | 64-QAM | 16-QAM | QPSK | - | 162 | 180 | ☐ |
| | 43 | 3 | 64-QAM | 16-QAM | 16-QAM | - | 189 | 210 | ☐ |
| | 44 | 3 | 64-QAM | 64-QAM | QPSK | - | 189 | 210 | ☐ |
| ☑ | 45 | 3 | 64-QAM | 64-QAM | 16-QAM | - | 216 | 240 | ☐ |
| | 46 | 3 | 16-QAM | QPSK | QPSK | - | 162 | 180 | ☐ |
| | 47 | 3 | 16-QAM | 16-QAM | QPSK | - | 202.5 | 225 | ☐ |
| | 48 | 3 | 64-QAM | QPSK | QPSK | - | 202.5 | 225 | ☐ |
| | 49 | 3 | 64-QAM | 16-QAM | QPSK | - | 243 | 270 | ☐ |
| | 50 | 3 | 64-QAM | 16-QAM | 16-QAM | - | 283.5 | 315 | ☐ |
| | 51 | 3 | 64-QAM | 64-QAM | QPSK | - | 283.5 | 315 | ☐ |
| | 52 | 3 | 64-QAM | 64-QAM | 16-QAM | - | 324 | 360 | ☐ |
| | 53 | 4 | 16-QAM | QPSK | QPSK | QPSK | 135 | 150 | ☐ |
| | 54 | 4 | 16-QAM | 16-QAM | QPSK | QPSK | 162 | 180 | ☐ |
| | 55 | 4 | 16-QAM | 16-QAM | 16-QAM | QPSK | 189 | 210 | ☐ |
| | 56 | 4 | 64-QAM | QPSK | QPSK | QPSK | 162 | 180 | ☐ |
| | 57 | 4 | 64-QAM | 16-QAM | QPSK | QPSK | 189 | 210 | ☐ |
| | 58 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 216 | 240 | ☐ |
| | 59 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 243 | 270 | ☐ |
| | 60 | 4 | 64-QAM | QPSK | QPSK | QPSK | 216 | 240 | ☐ |
| | 61 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 243 | 270 | ☐ |
| | 62 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 270 | 300 | ☐ |
| | 63 | 4 | 64-QAM | 64-QAM | 64-QAM | QPSK | 270 | 300 | ☐ |
| ☐ | 64 | 4 | 64-QAM | 64-QAM | 64-QAM | 16-QAM | 297 | 330 | ☐ |
| | 65 | 4 | 16-QAM | QPSK | QPSK | QPSK | 202.5 | 225 | ☐ |
| | 66 | 4 | 16-QAM | 16-QAM | QPSK | QPSK | 243 | 270 | ☐ |
| | 67 | 4 | 16-QAM | 16-QAM | 16-QAM | QPSK | 283.5 | 315 | ☐ |
| | 68 | 4 | 64-QAM | QPSK | QPSK | QPSK | 243 | 270 | ☐ |
| | 69 | 4 | 64-QAM | 16-QAM | QPSK | QPSK | 283.5 | 315 | ☐ |
| | 70 | 4 | 64-QAM | 16-QAM | 16-QAM | QPSK | 324 | 360 | ☐ |
| | 71 | 4 | 64-QAM | 16-QAM | 16-QAM | 16-QAM | 364.5 | 405 | ☐ |
| | 72 | 4 | 64-QAM | 64-QAM | QPSK | QPSK | 324 | 360 | ☐ |
| | 73 | 4 | 64-QAM | 64-QAM | 16-QAM | QPSK | 364.5 | 405 | ☐ |
| | 74 | 4 | 64-QAM | 64-QAM | 16-QAM | 16-QAM | 405 | 450 | ☐ |
| | 75 | 4 | 64-QAM | 64-QAM | 64-QAM | QPSK | 405 | 450 | ☐ |
| | 76 | 4 | 64-QAM | 64-QAM | 64-QAM | 16-QAM | 445.5 | 495 | ☐ |

| DATA RATE: 802.11ac VHT20 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Available for EUT | MCS Index | Nbr of spatial streams | Modulation (Stream 1/2/3/4) | Coding rate | GI = 800ns | GI = 400ns | Worst Case Modulation |
| | 0 | 1 | BPSK | 1/2 | 6,5 | 7,2 | ☐ |
| | 1 | 1 | QPSK | 1/2 | 13 | 14,4 | ☐ |
| | 2 | 1 | QPSK | 3/4 | 19,5 | 21,7 | ☐ |
| | 3 | 1 | 16-QAM | 1/2 | 26 | 28,9 | ☐ |
| ☑ | 4 | 1 | 16-QAM | 3/4 | 39 | 43,3 | ☐ |
| | 5 | 1 | 64-QAM | 2/3 | 52 | 57,8 | ☐ |
| | 6 | 1 | 64-QAM | 3/4 | 58,5 | 65 | ☐ |
| | 7 | 1 | 64-QAM | 5/6 | 65 | 72,2 | ☐ |
| | 8 | 1 | 256-QAM | 3/4 | 78 | 86,7 | ☐ |
| | 9 | 1 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 10 | 2 | BPSK | 1/2 | 13 | 14,4 | ☑ |
| | 11 | 2 | QPSK | 1/2 | 26 | 28,8 | ☐ |
| | 12 | 2 | QPSK | 3/4 | 39 | 43,4 | ☐ |
| | 13 | 2 | 16-QAM | 1/2 | 52 | 57,8 | ☐ |
| ☑ | 14 | 2 | 16-QAM | 3/4 | 78 | 86,6 | ☐ |
| | 15 | 2 | 64-QAM | 2/3 | 104 | 115,6 | ☐ |
| | 16 | 2 | 64-QAM | 3/4 | 117 | 130 | ☐ |
| | 17 | 2 | 64-QAM | 5/6 | 130 | 144,4 | ☐ |
| | 18 | 2 | 256-QAM | 3/4 | 156 | 173,4 | ☐ |
| | 19 | 2 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 20 | 3 | BPSK | 1/2 | 19,5 | 21,6 | ☑ |
| | 21 | 3 | QPSK | 1/2 | 39 | 43,2 | ☐ |
| | 22 | 3 | QPSK | 3/4 | 58,5 | 65,1 | ☐ |
| | 23 | 3 | 16-QAM | 1/2 | 78 | 86,7 | ☐ |
| ☑ | 24 | 3 | 16-QAM | 3/4 | 117 | 129,9 | ☐ |
| | 25 | 3 | 64-QAM | 2/3 | 156 | 173,4 | ☐ |
| | 26 | 3 | 64-QAM | 3/4 | 175,5 | 195 | ☐ |
| | 27 | 3 | 64-QAM | 5/6 | 195 | 216,6 | ☐ |
| | 28 | 3 | 256-QAM | 3/4 | 234 | 260,1 | ☐ |
| | 29 | 3 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 30 | 4 | BPSK | 1/2 | 26 | 28,8 | ☐ |
| | 31 | 4 | QPSK | 1/2 | 52 | 57,6 | ☐ |
| | 32 | 4 | QPSK | 3/4 | 78 | 86,8 | ☐ |
| | 33 | 4 | 16-QAM | 1/2 | 104 | 115,6 | ☐ |
| ☐ | 34 | 4 | 16-QAM | 3/4 | 156 | 173,2 | ☐ |
| | 35 | 4 | 64-QAM | 2/3 | 208 | 231,2 | ☐ |
| | 36 | 4 | 64-QAM | 3/4 | 234 | 260 | ☐ |
| | 37 | 4 | 64-QAM | 5/6 | 260 | 288,8 | ☐ |
| | 38 | 4 | 256-QAM | 3/4 | 312 | 346,8 | ☐ |
| | 39 | 4 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 40 | 5 | BPSK | 1/2 | 32,5 | 36 | ☐ |
| | 41 | 5 | QPSK | 1/2 | 65 | 72 | ☐ |
| | 42 | 5 | QPSK | 3/4 | 97,5 | 108,5 | ☐ |
| | 43 | 5 | 16-QAM | 1/2 | 130 | 144,5 | ☐ |
| ☐ | 44 | 5 | 16-QAM | 3/4 | 195 | 216,5 | ☐ |
| | 45 | 5 | 64-QAM | 2/3 | 260 | 289 | ☐ |
| | 46 | 5 | 64-QAM | 3/4 | 292,5 | 325 | ☐ |
| | 47 | 5 | 64-QAM | 5/6 | 325 | 361 | ☐ |
| | 48 | 5 | 256-QAM | 3/4 | 390 | 433,5 | ☐ |
| | 49 | 5 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 50 | 6 | BPSK | 1/2 | 39 | 43,2 | ☐ |
| | 51 | 6 | QPSK | 1/2 | 78 | 86,4 | ☐ |
| | 52 | 6 | QPSK | 3/4 | 117 | 130,2 | ☐ |
| | 53 | 6 | 16-QAM | 1/2 | 156 | 173,4 | ☐ |
| ☐ | 54 | 6 | 16-QAM | 3/4 | 234 | 259,8 | ☐ |
| | 55 | 6 | 64-QAM | 2/3 | 312 | 346,8 | ☐ |
| | 56 | 6 | 64-QAM | 3/4 | 351 | 390 | ☐ |
| | 57 | 6 | 64-QAM | 5/6 | 390 | 433,2 | ☐ |
| | 58 | 6 | 256-QAM | 3/4 | 468 | 520,2 | ☐ |
| | 59 | 6 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 60 | 7 | BPSK | 1/2 | 45,5 | 50,4 | ☐ |
| | 61 | 7 | QPSK | 1/2 | 91 | 100,8 | ☐ |
| | 62 | 7 | QPSK | 3/4 | 136,5 | 151,9 | ☐ |
| | 63 | 7 | 16-QAM | 1/2 | 182 | 202,3 | ☐ |
| ☐ | 64 | 7 | 16-QAM | 3/4 | 273 | 303,1 | ☐ |
| | 65 | 7 | 64-QAM | 2/3 | 364 | 404,6 | ☐ |
| | 66 | 7 | 64-QAM | 3/4 | 409,5 | 455 | ☐ |
| | 67 | 7 | 64-QAM | 5/6 | 455 | 505,4 | ☐ |
| | 68 | 7 | 256-QAM | 3/4 | 546 | 606,9 | ☐ |
| | 69 | 7 | 256-QAM | 5/6 | N/A | N/A | ☐ |
| | 70 | 8 | BPSK | 1/2 | 52 | 57,6 | ☐ |
| | 71 | 8 | QPSK | 1/2 | 104 | 115,2 | ☐ |
| | 72 | 8 | QPSK | 3/4 | 156 | 173,6 | ☐ |
| | 73 | 8 | 16-QAM | 1/2 | 208 | 231,2 | ☐ |
| ☐ | 74 | 8 | 16-QAM | 3/4 | 312 | 346,4 | ☐ |
| | 75 | 8 | 64-QAM | 2/3 | 416 | 462,4 | ☐ |
| | 76 | 8 | 64-QAM | 3/4 | 468 | 520 | ☐ |
| | 77 | 8 | 64-QAM | 5/6 | 520 | 577,6 | ☐ |
| | 78 | 8 | 256-QAM | 3/4 | 624 | 693,6 | ☐ |
| | 79 | 8 | 256-QAM | 5/6 | N/A | N/A | ☐ |

| DATA RATE: 802.11ac VHT40 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Available for EUT | MCS Index | Nbr of spatial streams | Modulation (Stream 1/2/3/4) | Coding rate | GI = 800ns | GI = 400ns | Worst Case Modulation |
| | 0 | 1 | BPSK | 1/2 | 13,5 | 15 | ☑ |
| | 1 | 1 | QPSK | 1/2 | 27 | 30 | ☐ |
| | 2 | 1 | QPSK | 3/4 | 40,5 | 45 | ☐ |
| | 3 | 1 | 16-QAM | 1/2 | 54 | 60 | ☐ |
| ☑ | 4 | 1 | 16-QAM | 3/4 | 81 | 90 | ☐ |
| | 5 | 1 | 64-QAM | 2/3 | 108 | 120 | ☐ |
| | 6 | 1 | 64-QAM | 3/4 | 121,5 | 135 | ☐ |
| | 7 | 1 | 64-QAM | 5/6 | 135 | 150 | ☐ |
| | 8 | 1 | 256-QAM | 3/4 | 162 | 180 | ☐ |
| | 9 | 1 | 256-QAM | 5/6 | 180 | 200 | ☐ |
| | 10 | 2 | BPSK | 1/2 | 27 | 30 | ☑ |
| | 11 | 2 | QPSK | 1/2 | 54 | 60 | ☐ |
| | 12 | 2 | QPSK | 3/4 | 81 | 90 | ☐ |
| | 13 | 2 | 16-QAM | 1/2 | 108 | 120 | ☐ |
| ☑ | 14 | 2 | 16-QAM | 3/4 | 162 | 180 | ☐ |
| | 15 | 2 | 64-QAM | 2/3 | 216 | 240 | ☐ |
| | 16 | 2 | 64-QAM | 3/4 | 243 | 270 | ☐ |
| | 17 | 2 | 64-QAM | 5/6 | 270 | 300 | ☐ |
| | 18 | 2 | 256-QAM | 3/4 | 324 | 360 | ☐ |
| | 19 | 2 | 256-QAM | 5/6 | 360 | 400 | ☐ |
| | 20 | 3 | BPSK | 1/2 | 40,5 | 45 | ☑ |
| | 21 | 3 | QPSK | 1/2 | 81 | 90 | ☐ |
| | 22 | 3 | QPSK | 3/4 | 121,5 | 135 | ☐ |
| | 23 | 3 | 16-QAM | 1/2 | 162 | 180 | ☐ |
| ☑ | 24 | 3 | 16-QAM | 3/4 | 243 | 270 | ☐ |
| | 25 | 3 | 64-QAM | 2/3 | 324 | 360 | ☐ |
| | 26 | 3 | 64-QAM | 3/4 | 364,5 | 405 | ☐ |
| | 27 | 3 | 64-QAM | 5/6 | 405 | 450 | ☐ |
| | 28 | 3 | 256-QAM | 3/4 | 486 | 540 | ☐ |
| | 29 | 3 | 256-QAM | 5/6 | 540 | 600 | ☐ |
| | 30 | 4 | BPSK | 1/2 | 54 | 60 | ☐ |
| | 31 | 4 | QPSK | 1/2 | 108 | 120 | ☐ |
| | 32 | 4 | QPSK | 3/4 | 162 | 180 | ☐ |
| | 33 | 4 | 16-QAM | 1/2 | 216 | 240 | ☐ |
| ☐ | 34 | 4 | 16-QAM | 3/4 | 324 | 360 | ☐ |
| | 35 | 4 | 64-QAM | 2/3 | 432 | 480 | ☐ |
| | 36 | 4 | 64-QAM | 3/4 | 486 | 540 | ☐ |
| | 37 | 4 | 64-QAM | 5/6 | 540 | 600 | ☐ |
| | 38 | 4 | 256-QAM | 3/4 | 648 | 720 | ☐ |
| | 39 | 4 | 256-QAM | 5/6 | 720 | 800 | ☐ |
| | 40 | 5 | BPSK | 1/2 | 67,5 | 75 | ☐ |
| | 41 | 5 | QPSK | 1/2 | 135 | 150 | ☐ |
| | 42 | 5 | QPSK | 3/4 | 202,5 | 225 | ☐ |
| | 43 | 5 | 16-QAM | 1/2 | 270 | 300 | ☐ |
| ☐ | 44 | 5 | 16-QAM | 3/4 | 405 | 450 | ☐ |
| | 45 | 5 | 64-QAM | 2/3 | 540 | 600 | ☐ |
| | 46 | 5 | 64-QAM | 3/4 | 607,5 | 675 | ☐ |
| | 47 | 5 | 64-QAM | 5/6 | 675 | 750 | ☐ |
| | 48 | 5 | 256-QAM | 3/4 | 810 | 900 | ☐ |
| | 49 | 5 | 256-QAM | 5/6 | 900 | 1000 | ☐ |
| | 50 | 6 | BPSK | 1/2 | 81 | 90 | ☐ |
| | 51 | 6 | QPSK | 1/2 | 162 | 180 | ☐ |
| | 52 | 6 | QPSK | 3/4 | 243 | 270 | ☐ |
| | 53 | 6 | 16-QAM | 1/2 | 324 | 360 | ☐ |
| ☐ | 54 | 6 | 16-QAM | 3/4 | 486 | 540 | ☐ |
| | 55 | 6 | 64-QAM | 2/3 | 648 | 720 | ☐ |
| | 56 | 6 | 64-QAM | 3/4 | 729 | 810 | ☐ |
| | 57 | 6 | 64-QAM | 5/6 | 810 | 900 | ☐ |
| | 58 | 6 | 256-QAM | 3/4 | 972 | 1080 | ☐ |
| | 59 | 6 | 256-QAM | 5/6 | 1080 | 1200 | ☐ |
| | 60 | 7 | BPSK | 1/2 | 94,5 | 105 | ☐ |
| | 61 | 7 | QPSK | 1/2 | 189 | 210 | ☐ |
| | 62 | 7 | QPSK | 3/4 | 283,5 | 315 | ☐ |
| | 63 | 7 | 16-QAM | 1/2 | 378 | 420 | ☐ |
| ☐ | 64 | 7 | 16-QAM | 3/4 | 567 | 630 | ☐ |
| | 65 | 7 | 64-QAM | 2/3 | 756 | 840 | ☐ |
| | 66 | 7 | 64-QAM | 3/4 | 850,5 | 945 | ☐ |
| | 67 | 7 | 64-QAM | 5/6 | 945 | 1050 | ☐ |
| | 68 | 7 | 256-QAM | 3/4 | 1134 | 1260 | ☐ |
| | 69 | 7 | 256-QAM | 5/6 | 1260 | 1400 | ☐ |
| | 70 | 8 | BPSK | 1/2 | 108 | 120 | ☐ |
| | 71 | 8 | QPSK | 1/2 | 216 | 240 | ☐ |
| | 72 | 8 | QPSK | 3/4 | 324 | 360 | ☐ |
| | 73 | 8 | 16-QAM | 1/2 | 432 | 480 | ☐ |
| ☐ | 74 | 8 | 16-QAM | 3/4 | 648 | 720 | ☐ |
| | 75 | 8 | 64-QAM | 2/3 | 864 | 960 | ☐ |
| | 76 | 8 | 64-QAM | 3/4 | 972 | 1080 | ☐ |
| | 77 | 8 | 64-QAM | 5/6 | 1080 | 1200 | ☐ |
| | 78 | 8 | 256-QAM | 3/4 | 1296 | 1440 | ☐ |
| | 79 | 8 | 256-QAM | 5/6 | 1440 | 1600 | ☐ |

| DATA RATE: 802.11ac VHT80 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Available for EUT | MCS Index | Nbr of spatial streams | Modulation (Stream 1/2/3/4) | Coding rate | GI = 800ns | GI = 400ns | Worst Case Modulation |
| ☑ | 0 | 1 | BPSK | 1/2 | 29.3 | 32.5 | ☑ |
| | 1 | 1 | QPSK | 1/2 | 58.5 | 65 | ☐ |
| | 2 | 1 | QPSK | 3/4 | 87.8 | 97.5 | ☐ |
| | 3 | 1 | 16-QAM | 1/2 | 117 | 130 | ☐ |
| | 4 | 1 | 16-QAM | 3/4 | 175.5 | 195 | ☐ |
| | 5 | 1 | 64-QAM | 2/3 | 234 | 260 | ☐ |
| | 6 | 1 | 64-QAM | 3/4 | 263.3 | 292.5 | ☐ |
| | 7 | 1 | 64-QAM | 5/6 | 292.5 | 325 | ☐ |
| | 8 | 1 | 256-QAM | 3/4 | 351 | 390 | ☐ |
| | 9 | 1 | 256-QAM | 5/6 | 390 | 433.3 | ☐ |
| ☑ | 10 | 2 | BPSK | 1/2 | 58.6 | 65 | ☑ |
| | 11 | 2 | QPSK | 1/2 | 117 | 130 | ☐ |
| | 12 | 2 | QPSK | 3/4 | 175.6 | 195 | ☐ |
| | 13 | 2 | 16-QAM | 1/2 | 234 | 260 | ☐ |
| | 14 | 2 | 16-QAM | 3/4 | 351 | 390 | ☐ |
| | 15 | 2 | 64-QAM | 2/3 | 468 | 520 | ☐ |
| | 16 | 2 | 64-QAM | 3/4 | 526.6 | 585 | ☐ |
| | 17 | 2 | 64-QAM | 5/6 | 585 | 650 | ☐ |
| | 18 | 2 | 256-QAM | 3/4 | 702 | 780 | ☐ |
| | 19 | 2 | 256-QAM | 5/6 | 780 | 866.6 | ☐ |
| ☑ | 20 | 3 | BPSK | 1/2 | 87.9 | 97.5 | ☑ |
| | 21 | 3 | QPSK | 1/2 | 175.5 | 195 | ☐ |
| | 22 | 3 | QPSK | 3/4 | 263.4 | 292.5 | ☐ |
| | 23 | 3 | 16-QAM | 1/2 | 351 | 390 | ☐ |
| | 24 | 3 | 16-QAM | 3/4 | 526.5 | 585 | ☐ |
| | 25 | 3 | 64-QAM | 2/3 | 702 | 780 | ☐ |
| | 26 | 3 | 64-QAM | 3/4 | 789.9 | 877.5 | ☐ |
| | 27 | 3 | 64-QAM | 5/6 | 877.5 | 975 | ☐ |
| | 28 | 3 | 256-QAM | 3/4 | 1053 | 1170 | ☐ |
| | 29 | 3 | 256-QAM | 5/6 | 1170 | 1299.9 | ☐ |
| ☐ | 30 | 4 | BPSK | 1/2 | 117.2 | 130 | ☐ |
| | 31 | 4 | QPSK | 1/2 | 234 | 260 | ☐ |
| | 32 | 4 | QPSK | 3/4 | 351.2 | 390 | ☐ |
| | 33 | 4 | 16-QAM | 1/2 | 468 | 520 | ☐ |
| | 34 | 4 | 16-QAM | 3/4 | 702 | 780 | ☐ |
| | 35 | 4 | 64-QAM | 2/3 | 936 | 1040 | ☐ |
| | 36 | 4 | 64-QAM | 3/4 | 1053.2 | 1170 | ☐ |
| | 37 | 4 | 64-QAM | 5/6 | 1170 | 1300 | ☐ |
| | 38 | 4 | 256-QAM | 3/4 | 1404 | 1560 | ☐ |
| | 39 | 4 | 256-QAM | 5/6 | 1560 | 1733.2 | ☐ |
| ☐ | 40 | 5 | BPSK | 1/2 | 146.5 | 162.5 | ☐ |
| | 41 | 5 | QPSK | 1/2 | 292.5 | 325 | ☐ |
| | 42 | 5 | QPSK | 3/4 | 439 | 487.5 | ☐ |
| | 43 | 5 | 16-QAM | 1/2 | 585 | 650 | ☐ |
| | 44 | 5 | 16-QAM | 3/4 | 877.5 | 975 | ☐ |
| | 45 | 5 | 64-QAM | 2/3 | 1170 | 1300 | ☐ |
| | 46 | 5 | 64-QAM | 3/4 | 1316.5 | 1462.5 | ☐ |
| | 47 | 5 | 64-QAM | 5/6 | 1462.5 | 1625 | ☐ |
| | 48 | 5 | 256-QAM | 3/4 | 1755 | 1950 | ☐ |
| | 49 | 5 | 256-QAM | 5/6 | 1950 | 2166.5 | ☐ |
| ☐ | 50 | 6 | BPSK | 1/2 | 175.8 | 195 | ☐ |
| | 51 | 6 | QPSK | 1/2 | 351 | 390 | ☐ |
| | 52 | 6 | QPSK | 3/4 | 526.8 | 585 | ☐ |
| | 53 | 6 | 16-QAM | 1/2 | 702 | 780 | ☐ |
| | 54 | 6 | 16-QAM | 3/4 | 1053 | 1170 | ☐ |
| | 55 | 6 | 64-QAM | 2/3 | 1404 | 1560 | ☐ |
| | 56 | 6 | 64-QAM | 3/4 | 1579.8 | 1755 | ☐ |
| | 57 | 6 | 64-QAM | 5/6 | 1755 | 1950 | ☐ |
| | 58 | 6 | 256-QAM | 3/4 | 2106 | 2340 | ☐ |
| | 59 | 6 | 256-QAM | 5/6 | 2340 | 2599.8 | ☐ |
| ☐ | 60 | 7 | BPSK | 1/2 | 205.1 | 227.5 | ☐ |
| | 61 | 7 | QPSK | 1/2 | 409.5 | 455 | ☐ |
| | 62 | 7 | QPSK | 3/4 | 614.6 | 682.5 | ☐ |
| | 63 | 7 | 16-QAM | 1/2 | 819 | 910 | ☐ |
| | 64 | 7 | 16-QAM | 3/4 | 1228.5 | 1365 | ☐ |
| | 65 | 7 | 64-QAM | 2/3 | 1638 | 1820 | ☐ |
| | 66 | 7 | 64-QAM | 3/4 | 1843.1 | 2047.5 | ☐ |
| | 67 | 7 | 64-QAM | 5/6 | 2047.5 | 2275 | ☐ |
| | 68 | 7 | 256-QAM | 3/4 | 2457 | 2730 | ☐ |
| | 69 | 7 | 256-QAM | 5/6 | 2730 | 3033.1 | ☐ |
| ☐ | 70 | 8 | BPSK | 1/2 | 234.4 | 260 | ☐ |
| | 71 | 8 | QPSK | 1/2 | 468 | 520 | ☐ |
| | 72 | 8 | QPSK | 3/4 | 702.4 | 780 | ☐ |
| | 73 | 8 | 16-QAM | 1/2 | 936 | 1040 | ☐ |
| | 74 | 8 | 16-QAM | 3/4 | 1404 | 1560 | ☐ |
| | 75 | 8 | 64-QAM | 2/3 | 1872 | 2080 | ☐ |
| | 76 | 8 | 64-QAM | 3/4 | 2106.4 | 2340 | ☐ |
| | 77 | 8 | 64-QAM | 5/6 | 2340 | 2600 | ☐ |
| | 78 | 8 | 256-QAM | 3/4 | 2808 | 3120 | ☐ |
| | 79 | 8 | 256-QAM | 5/6 | 3120 | 3466.4 | ☐ |

## 2.2. RUNNING MODE

The EUT is set in the following modes during tests:
- Permanent emission with modulation on a fixed channel in the data rate that produced the highest power
- Permanent emission with modulation on a fixed channel in the data rate that produced the lowest power
- Permanent reception

## 2.3. EQUIPMENT LABELLING





## 2.4. EQUIPMENT MODIFICATION

☑ None ☐ Modification:

# 3. OCCUPIED BANDWIDTH

## 3.1. TEST CONDITIONS

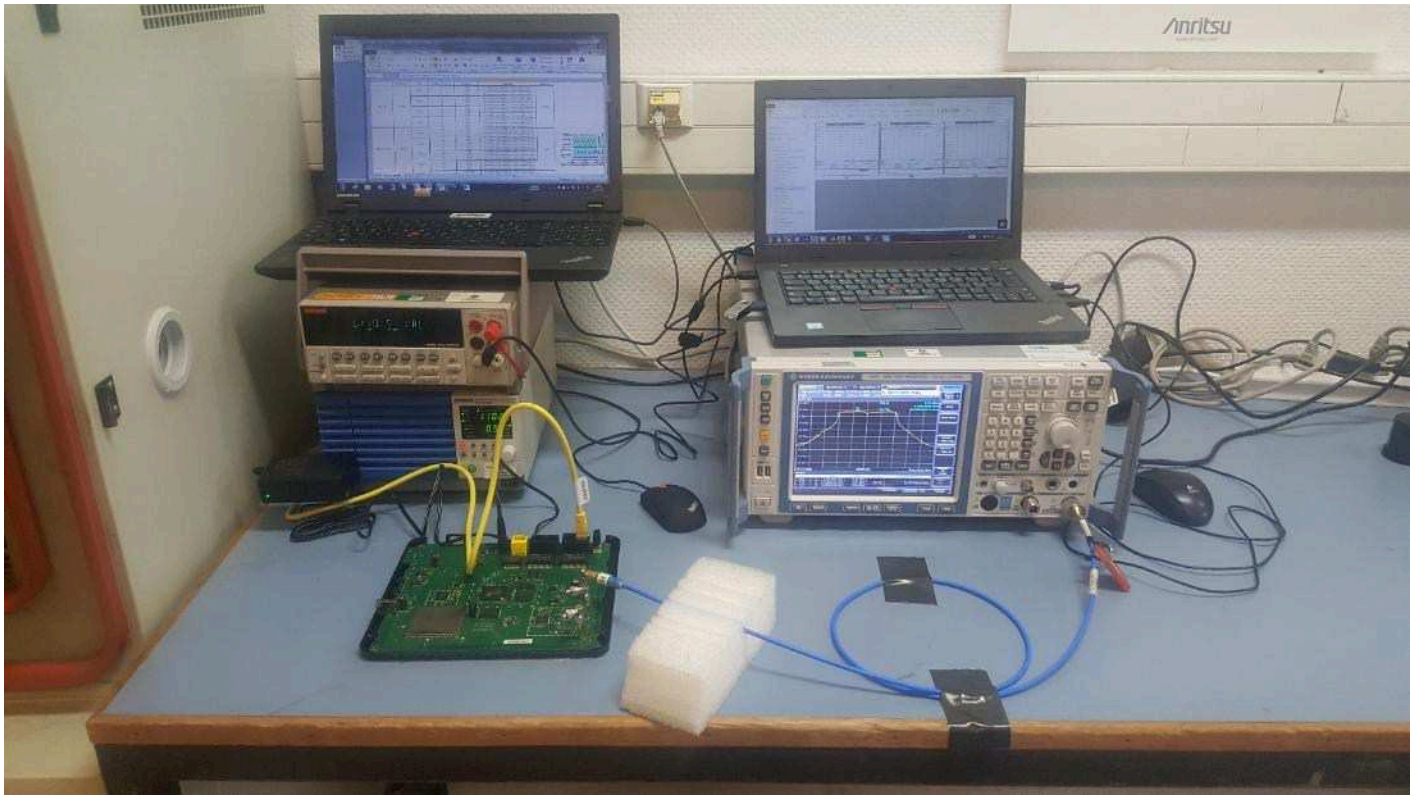
| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 1, 2018 |
| Ambient temperature | : 25 °C |
| Relative humidity | : 43 % |

## 3.2. TEST SETUP

- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § D




Photograph for Occupied bandwidth

## 3.1. LIMIT

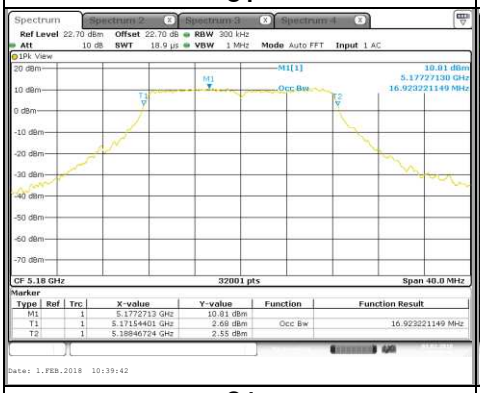
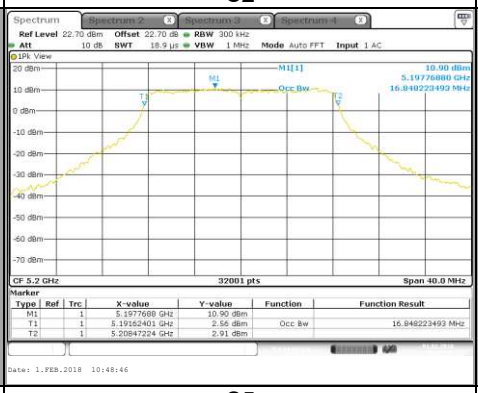
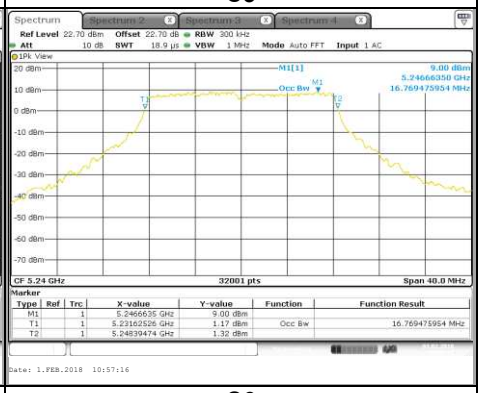
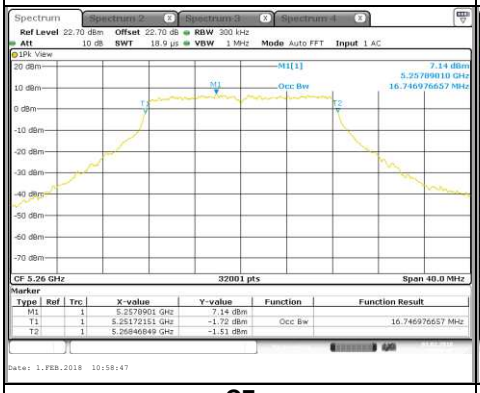
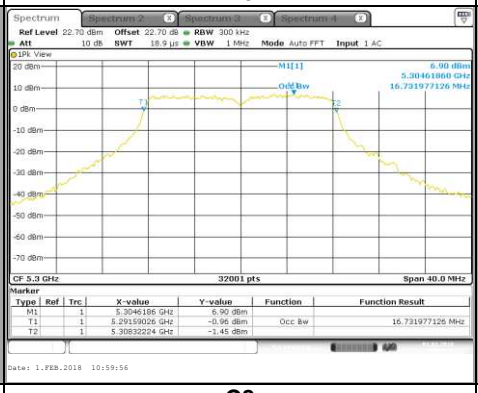
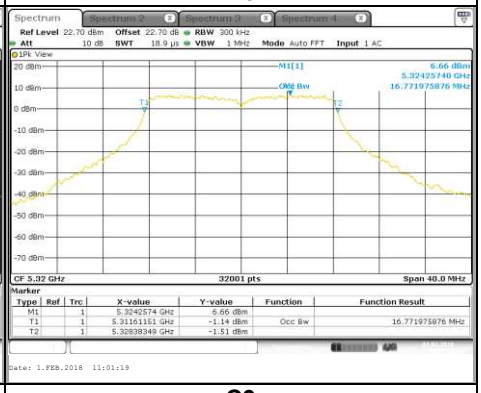
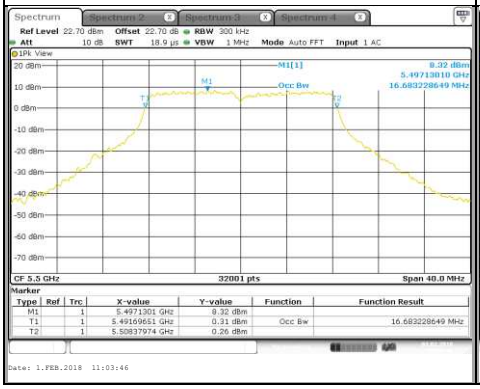
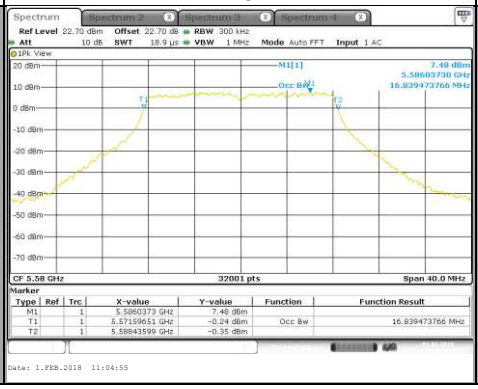
None

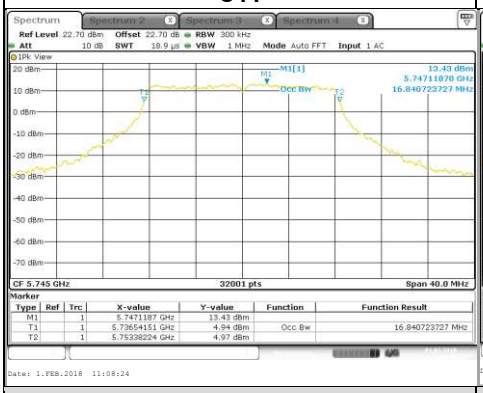
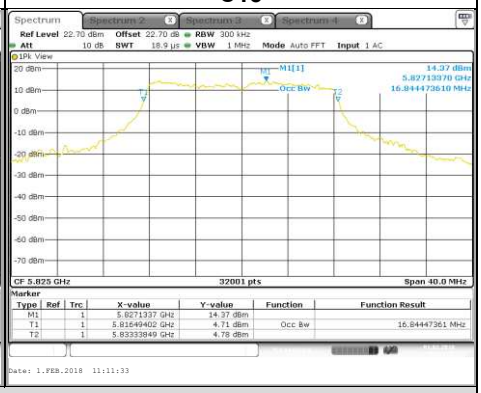
## 3.2. TEST EQUIPMENT LIST

| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

Note: In our quality system, the test equipment calibration due is more & less 2 months

## 3.3. RESULTS

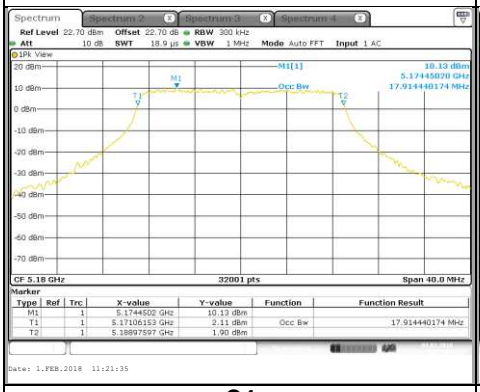
| 802.11a | | |
|---|---|---|
| C1 | C2 | C3 |
|  |  |  |
| C4 | C5 | C6 |
|  |  |  |
| C7 | C8 | C9 |
|  |  |  |

| 802.11a | | |
|---|---|---|
| C11 | C12 | C13 |
|  |  |  |

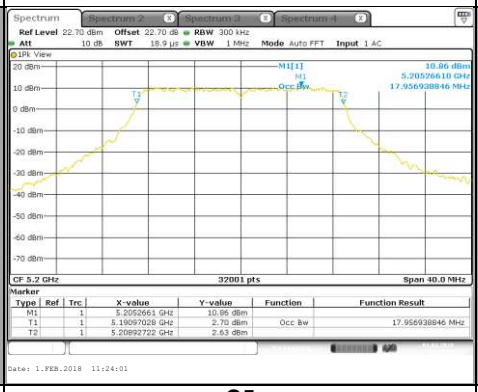
| Channel | Occupied Channel Bandwidth (MHz) |
|---|---|
| **C1** | 16,92 |
| **C2** | 16,85 |
| **C3** | 16,77 |
| **C4** | 16,75 |
| **C5** | 16,73 |
| **C6** | 16,77 |
| **C7** | 16,68 |
| **C8** | 16,84 |
| **C9** | 16,79 |
| **C11** | 16,84 |
| **C12** | 16,79 |
| **C13** | 16,84 |

## 802.11n HT20/ac VHT20

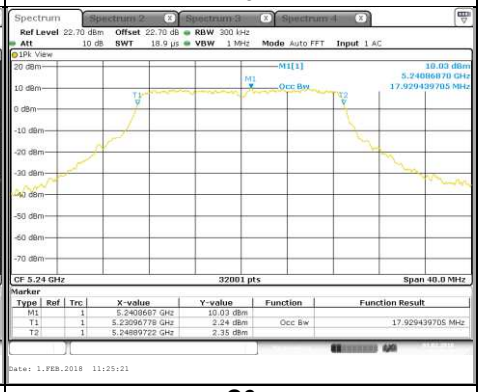
### C1



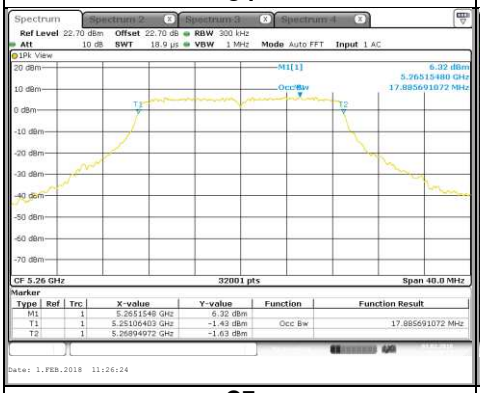

### C2



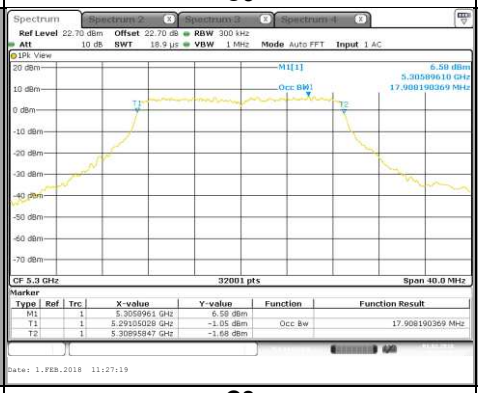

### C3



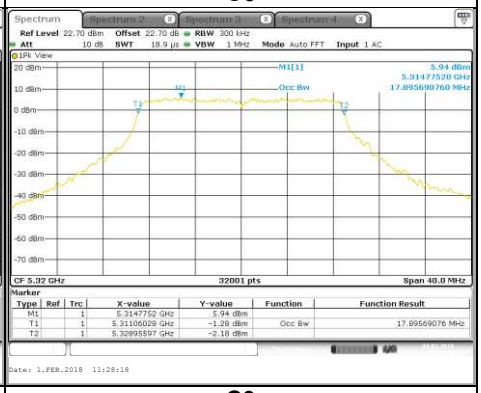

### C4



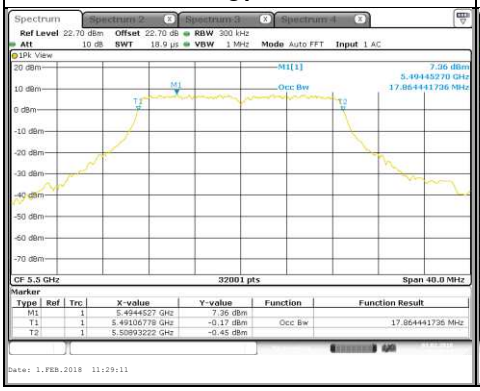

### C5



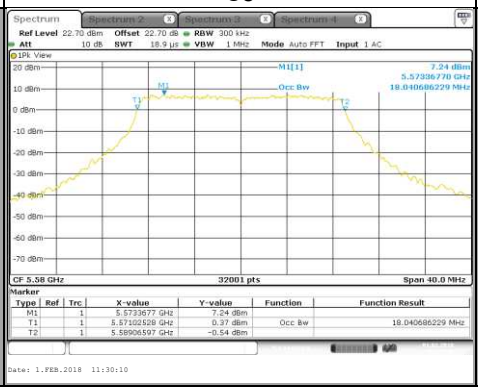

### C6



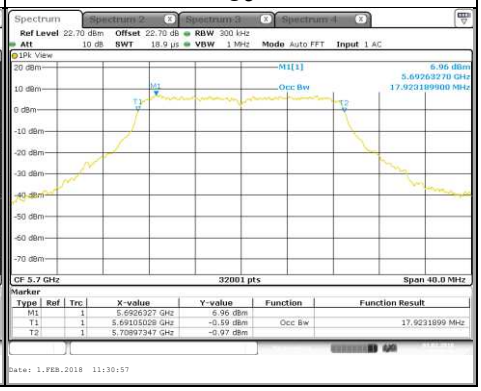

### C7

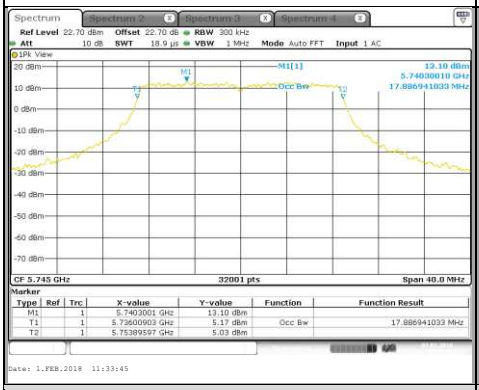
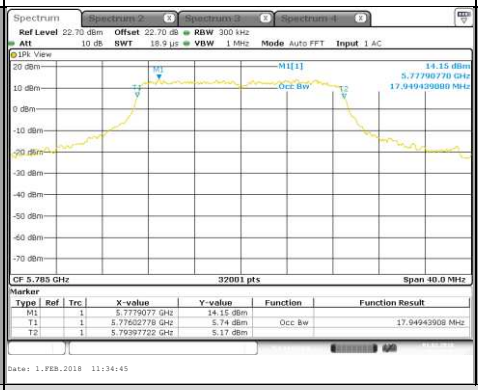
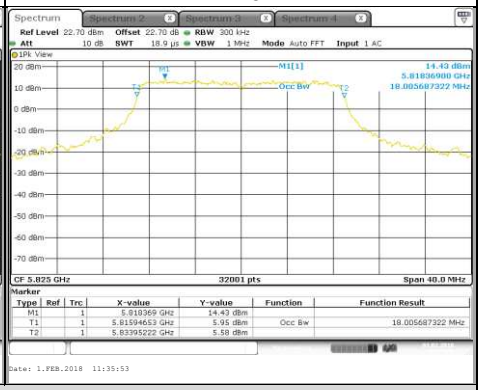



### C8



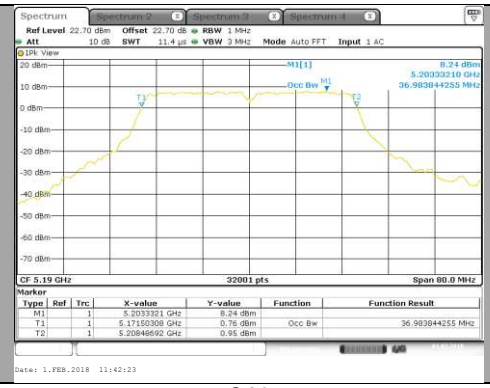

### C9



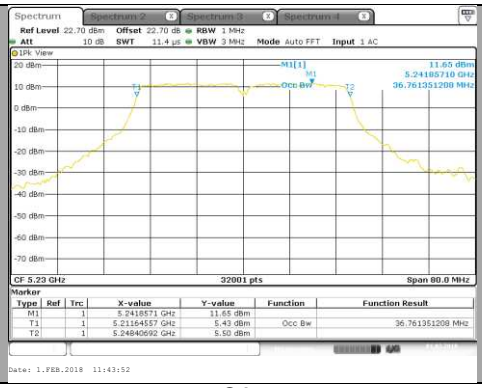
| 802.11n HT20/ac VHT20 | | |
|---|---|---|
| C11 | C12 | C13 |
|  |  |  |
| Channel | Occupied Channel Bandwidth (MHz) | |
| **C1** | 17,91 | |
| **C2** | 17,96 | |
| **C3** | 17,93 | |
| **C4** | 17,88 | |
| **C5** | 17,91 | |
| **C6** | 17,89 | |
| **C7** | 17,86 | |
| **C8** | 18,04 | |
| **C9** | 17,92 | |
| **C11** | 17,89 | |
| **C12** | 17,95 | |
| **C13** | 18,00 | |

## 802.11n HT40/ac VHT40

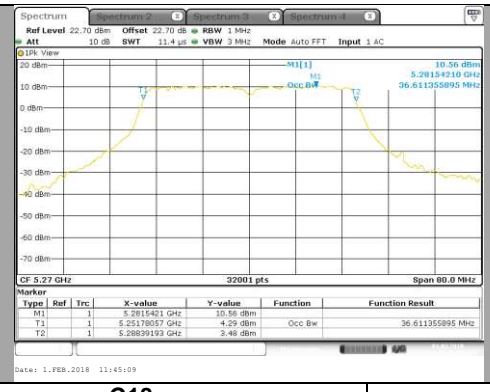
### C14



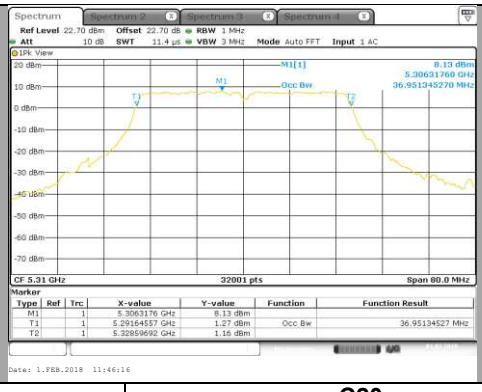

### C15



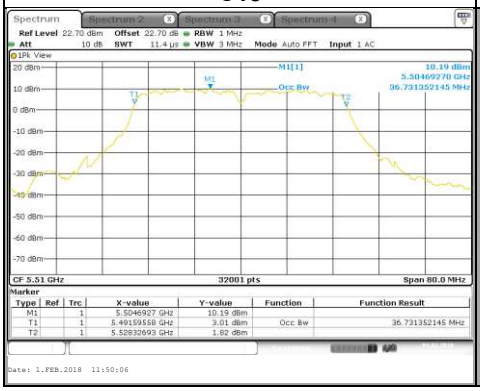

### C16



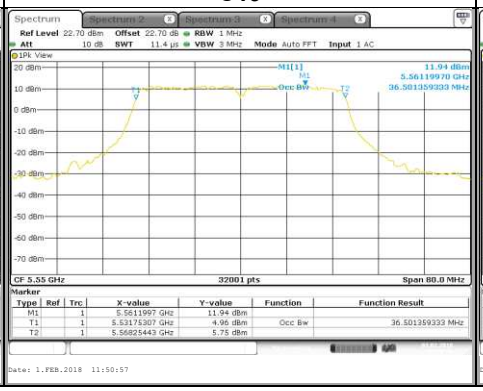

### C17



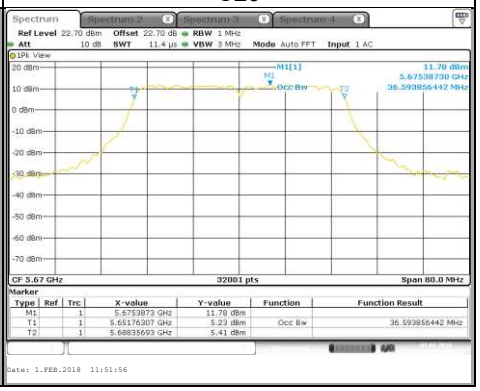

### C18

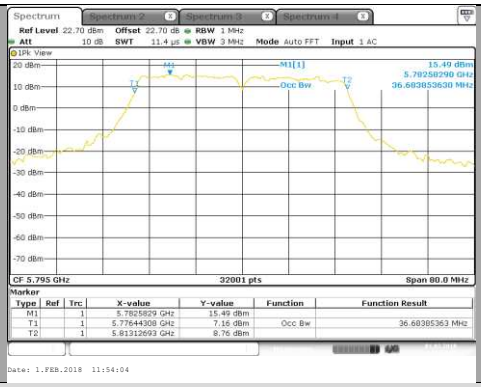



### C19

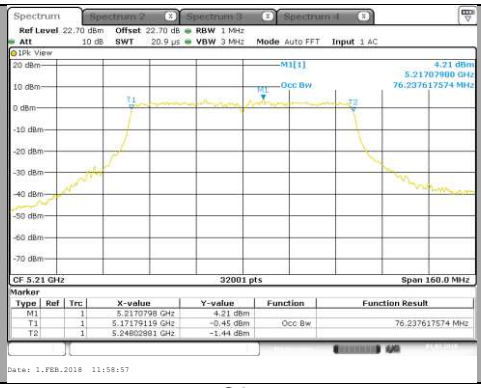
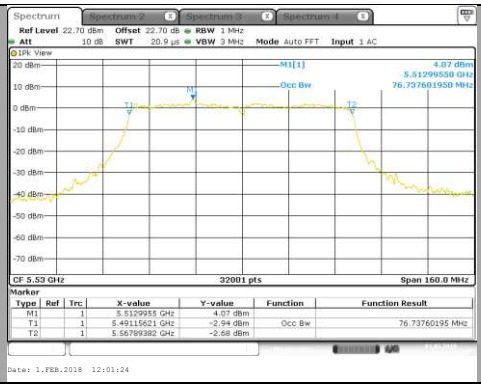


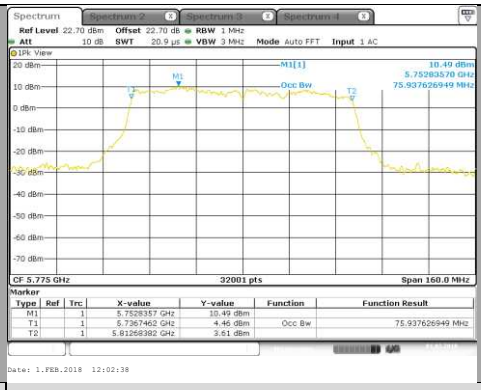

### C20



| 802.11n HT40/ac VHT40 | |
|---|---|
| C22 | C23 |
|  |  |

| Channel | Occupied Channel Bandwidth (MHz) |
|---|---|
| **C14** | 36,98 |
| **C15** | 36,76 |
| **C16** | 36,61 |
| **C17** | 36,95 |
| **C18** | 36,73 |
| **C19** | 36,50 |
| **C20** | 36,59 |
| **C22** | 36,58 |
| **C23** | 36,68 |

| 802.11ac VHT80 |
|---|
| C24 |
|  |
| C25 |
|  |
| C26 |
|  |

| 802.11ac VHT80 | |
|---|---|
| C29 | |
|  | |
| Channel | Occupied Channel Bandwidth (MHz) |
| **C24** | 76,24 |
| **C25** | 76,61 |
| **C26** | 76,74 |
| **C29** | 75,94 |

## 3.1. CONCLUSION

Occupied Channel Bandwidth measurement performed on the sample of the product **SAGEMCOM FAST 5260**, SN: **NQ1736013023187**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS-GEN ISSUE 4** limits.

# 4. CARRIER FREQUENCIES

## 4.1. TEST CONDITIONS

| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 1, 2018 |
| Ambient temperature | : 25 °C |
| Relative humidity | : 43 % |

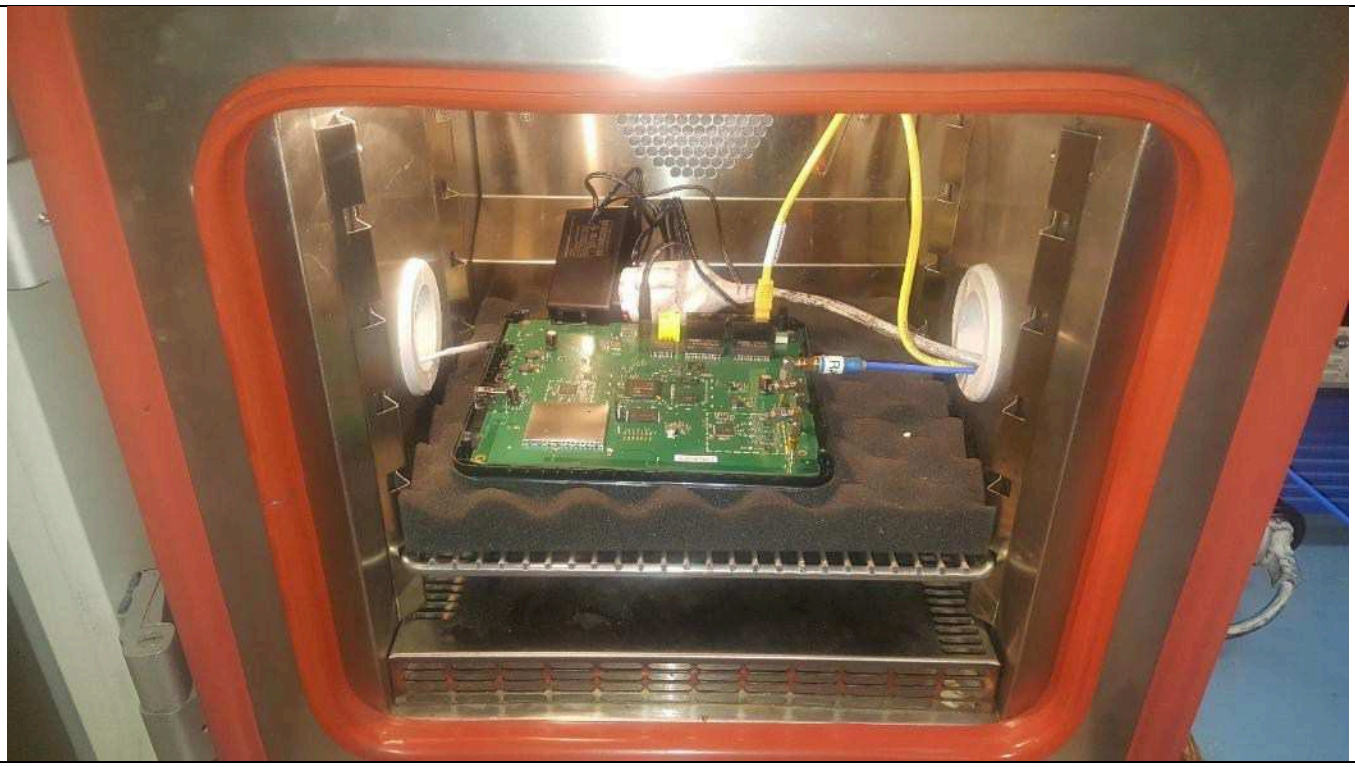
## 4.2. TEST SETUP

- The Equipment under Test is installed:
☑ In the climatic chamber
☐ On a table
☐ In an anechoic chamber

-Measurement is performed with a spectrum analyzer
☑ On the EUT conducted access
☐ With a test fixture

-Method of measurement
☐ Unmodulated (Spectrum Analyzer Counter Function)
☑ Modulated (Spectrum Analyzer NdB down Function)

In case of smart antenna systems operating in a multiple transmit chains active simultaneously, the measurement is only performed on one of the active transmit chains.



Photograph for Carrier Frequencies in normal test condition


Photograph for Carrier Frequencies in normal test condition


Photograph for Carrier Frequencies in extreme test condition

## 4.3. LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

## 4.4. TEST EQUIPMENT LIST

| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| Climatic chamber | SECASI Technologies | SLT-34 | D1024029 | Cal with Thermometer | |
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Thermometer | AOIP | TM 6630 | B4041042 | 2016/09 | 2018/03 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

Note: In our quality system, the test equipment calibration due is more & less 2 months

## 4.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

☑ None ☐ Divergence:

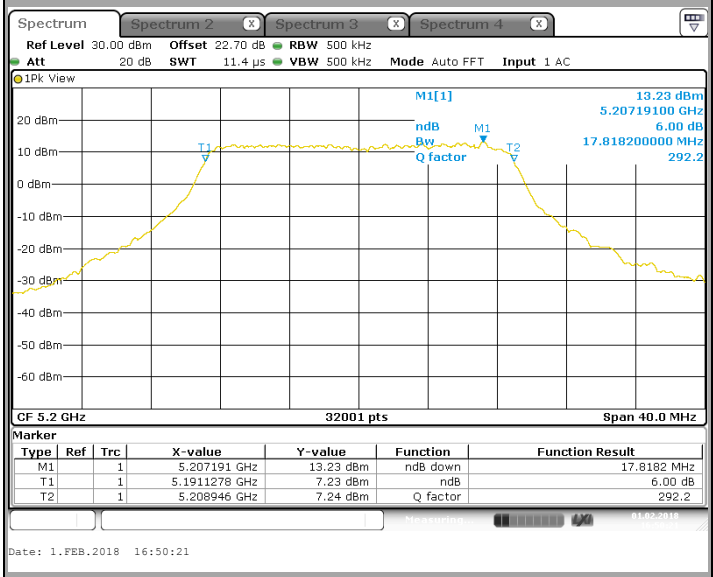
## 4.6. RESULTS

**802.11a/802.11nHT20/ac VHT20**

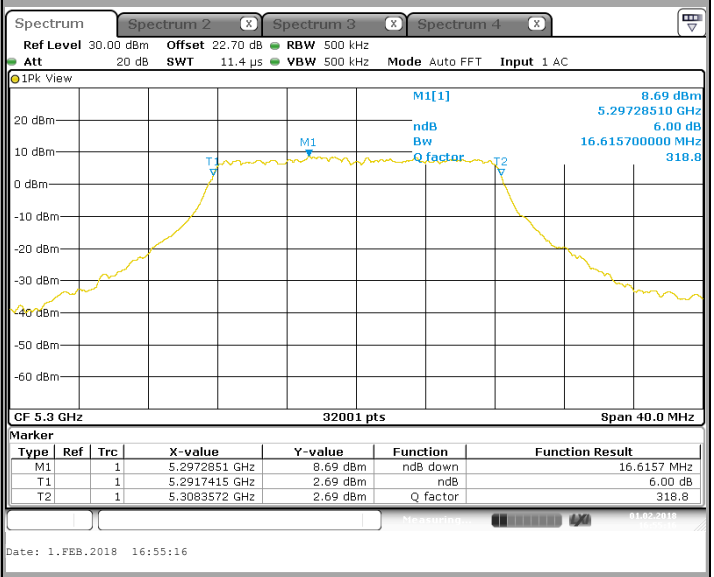
**Tmin**

**Vmin**

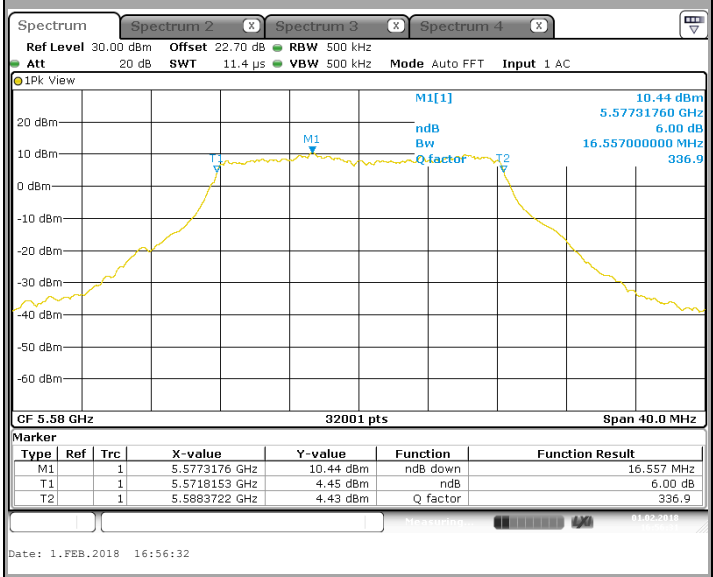
**C2**



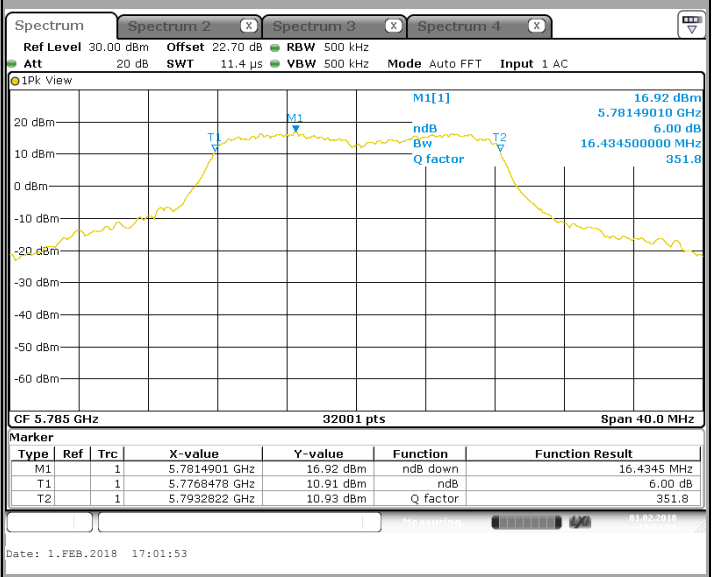

**C5**

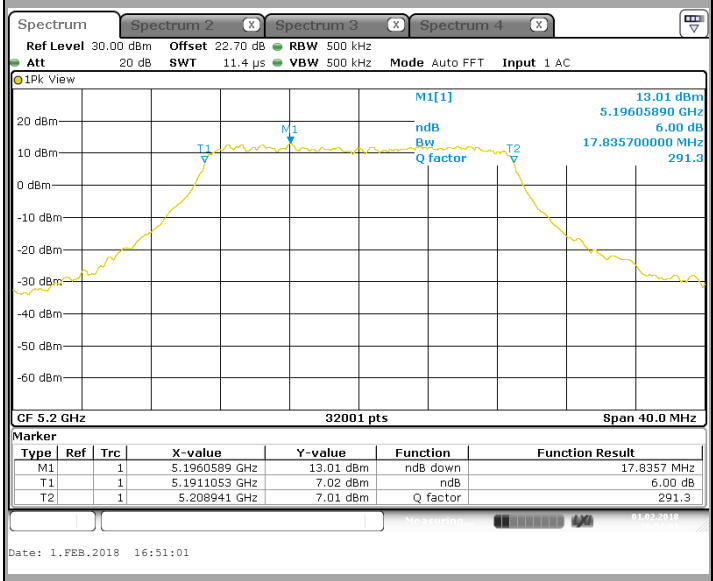
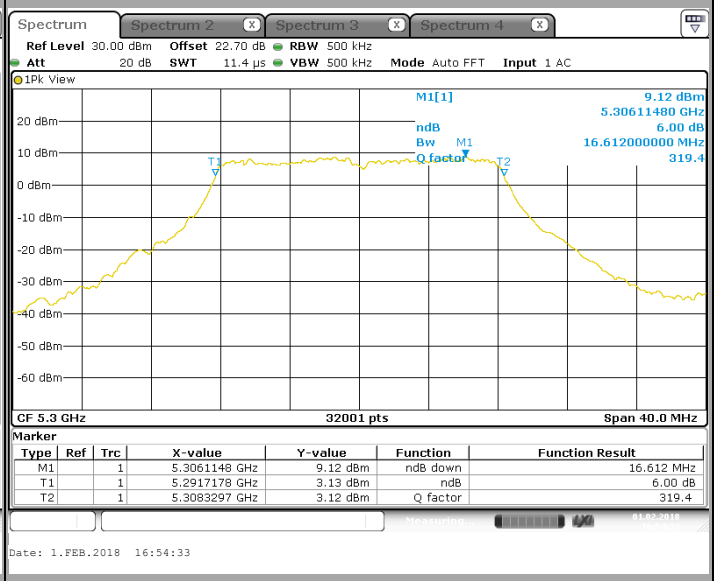
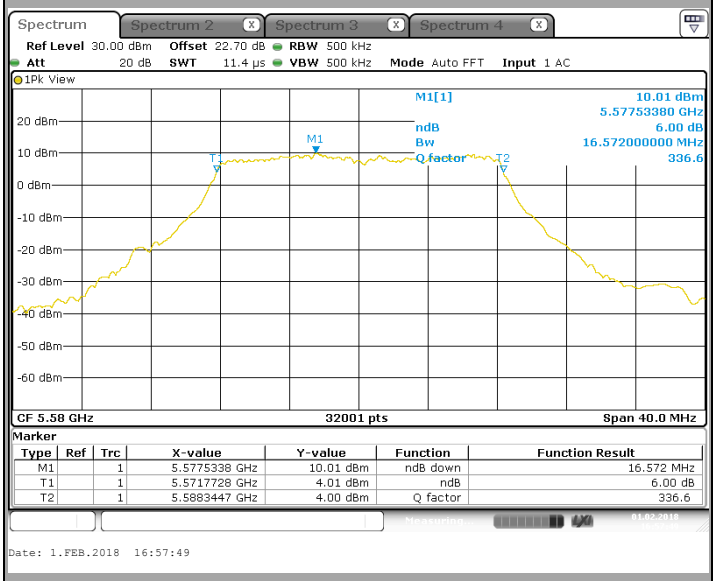
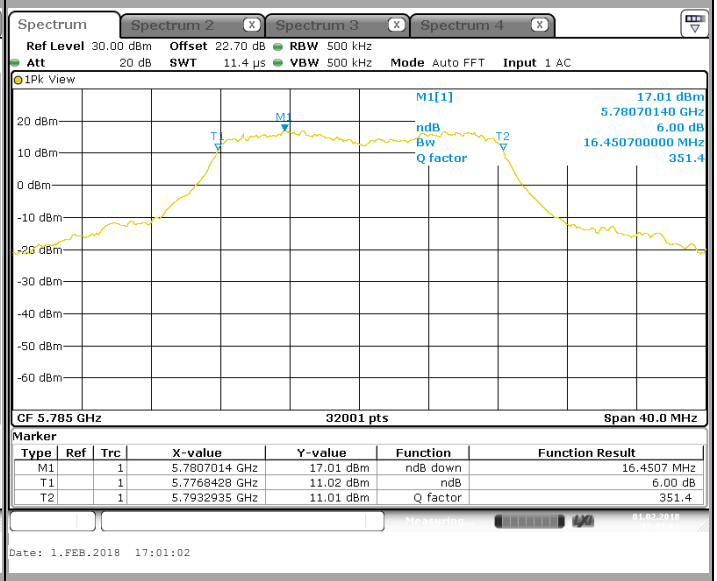


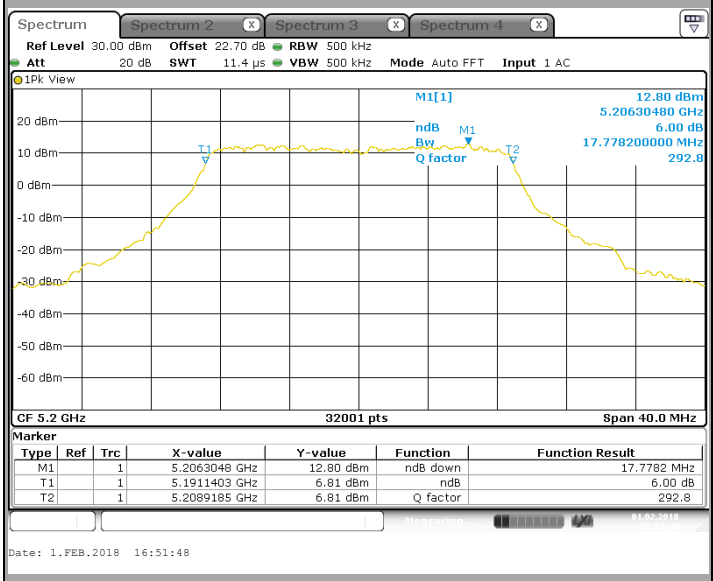
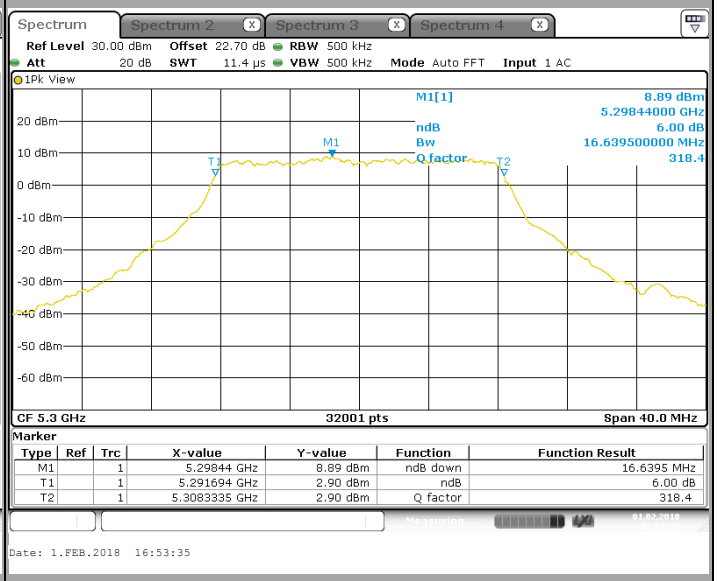
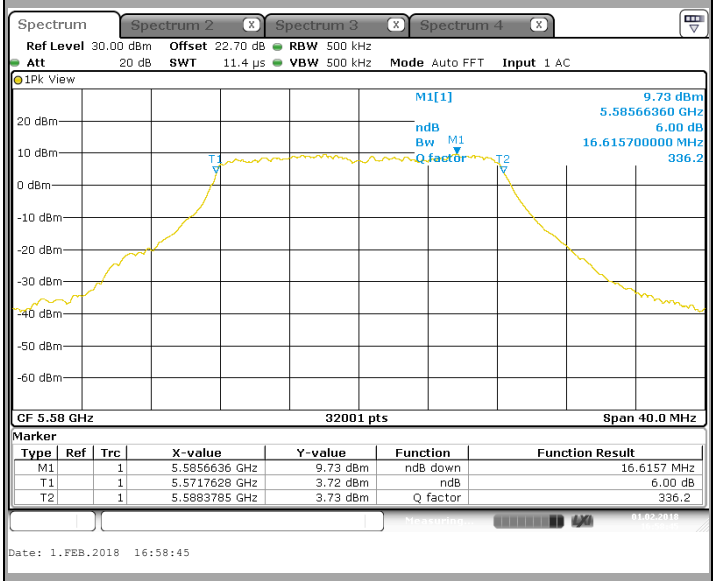
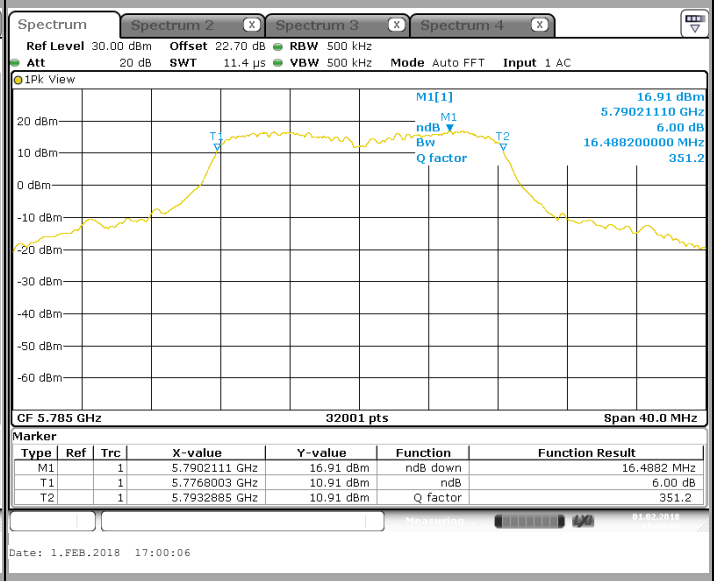

**C8**

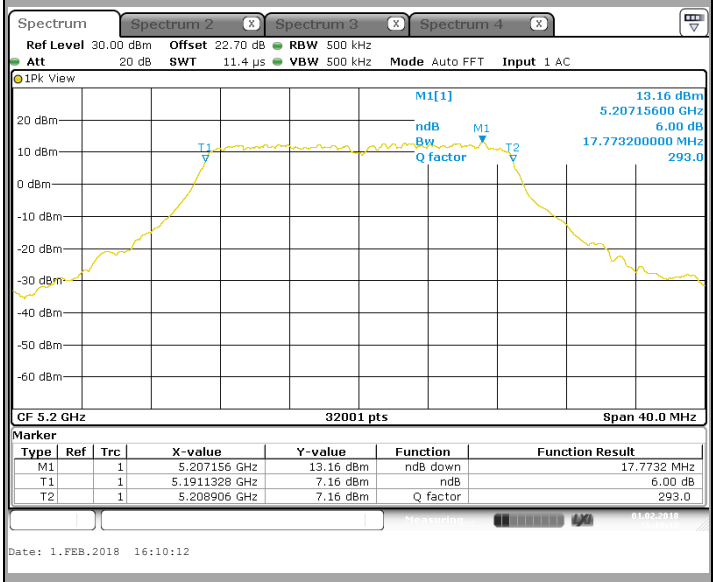
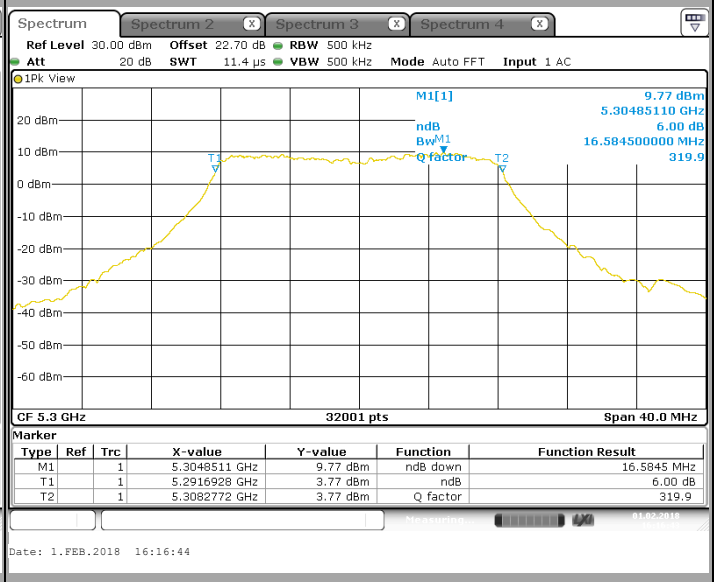
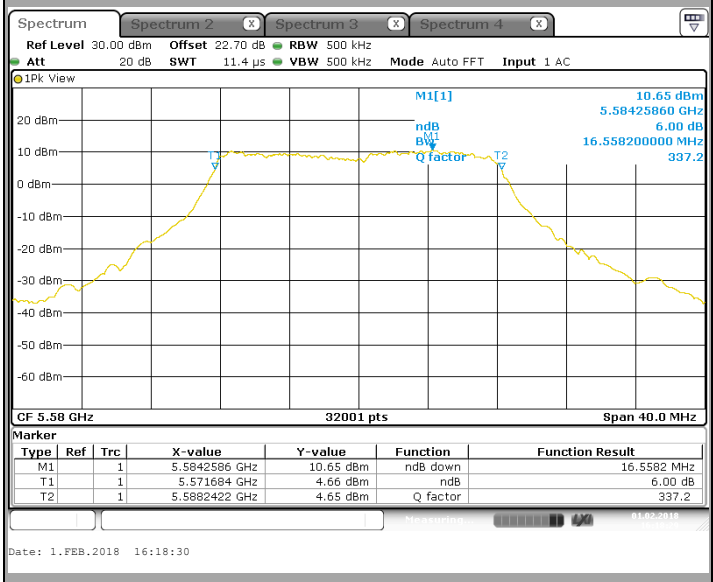
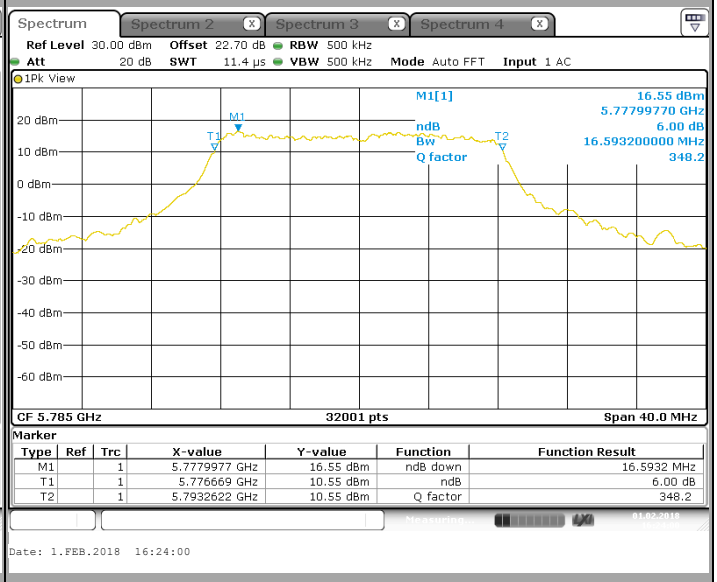


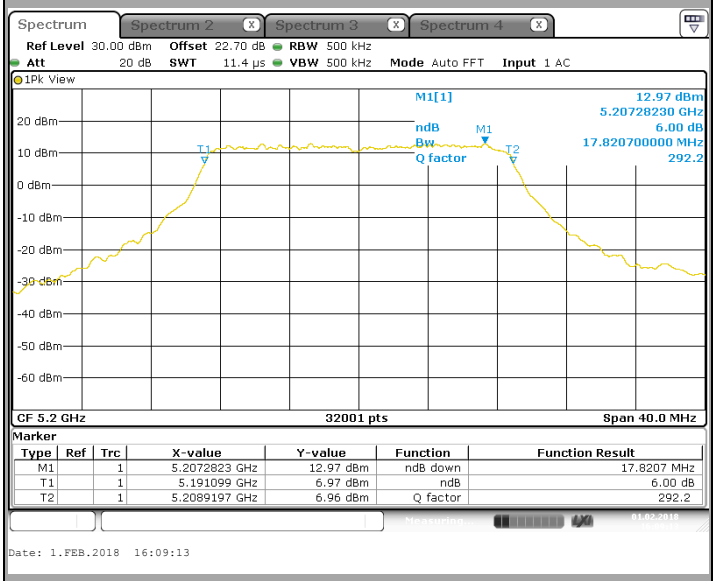
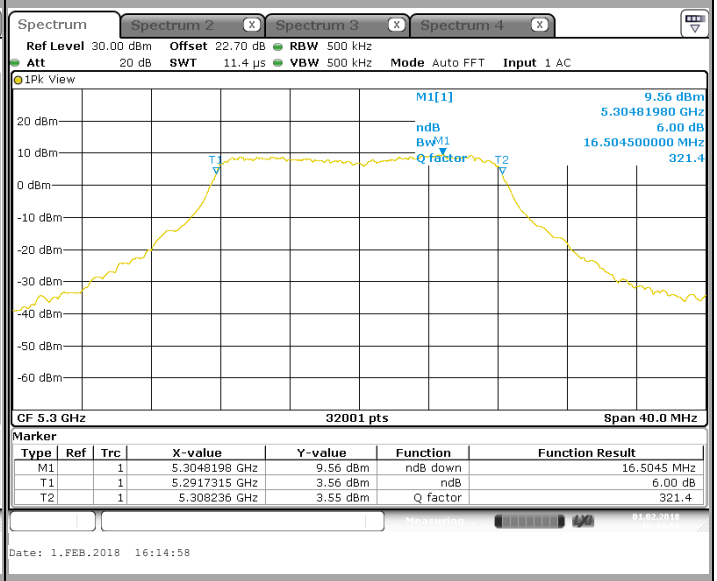
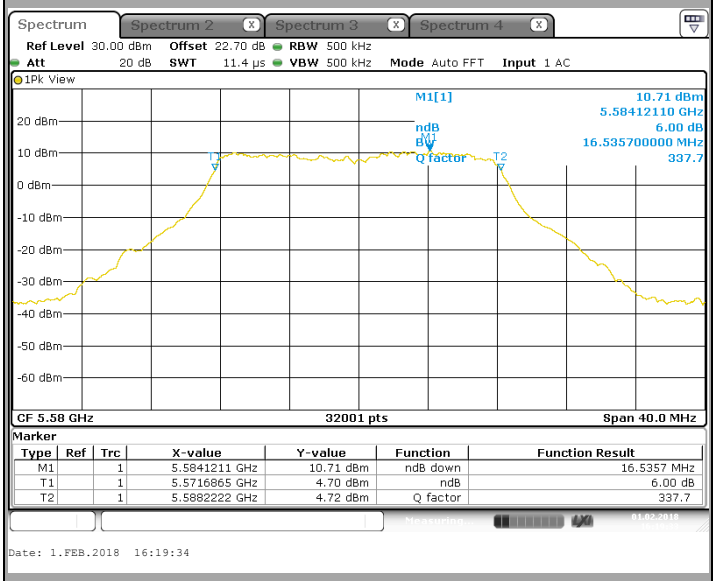
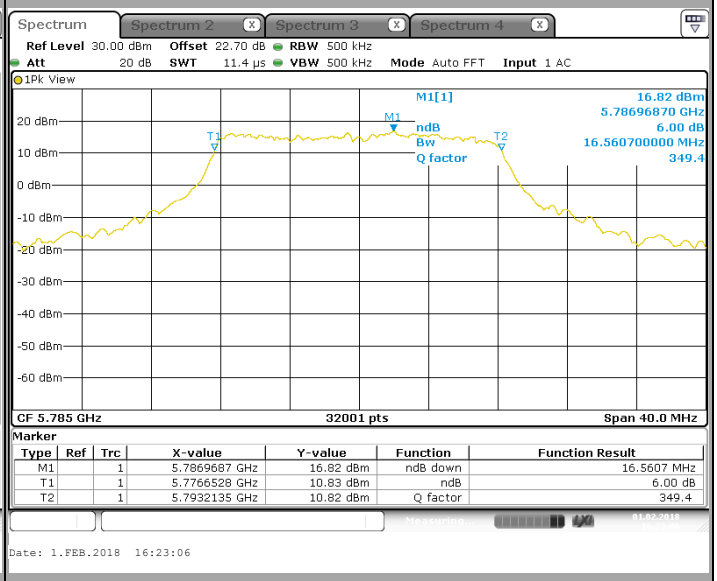

**C12**

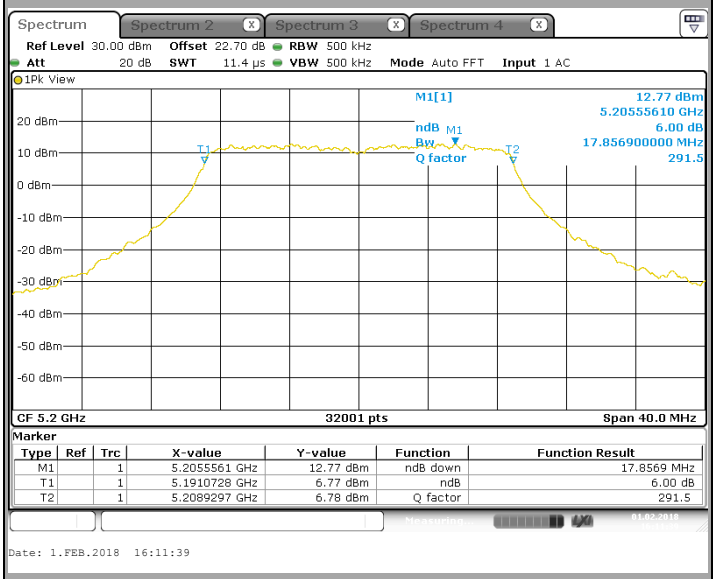
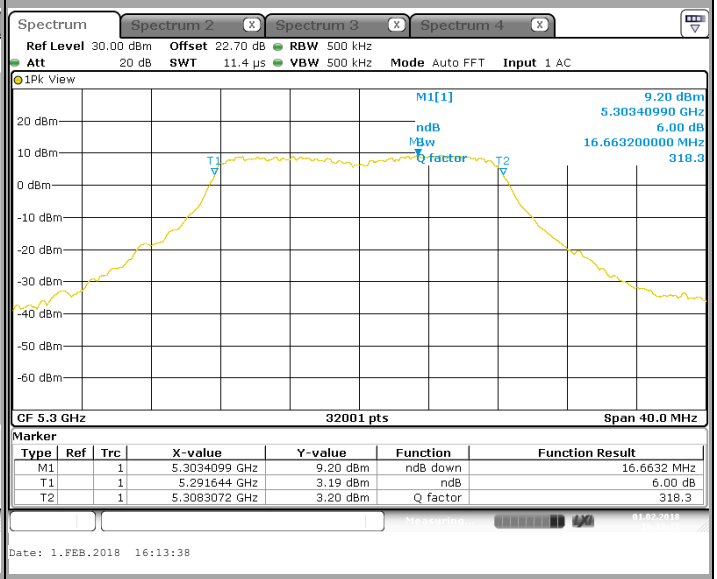
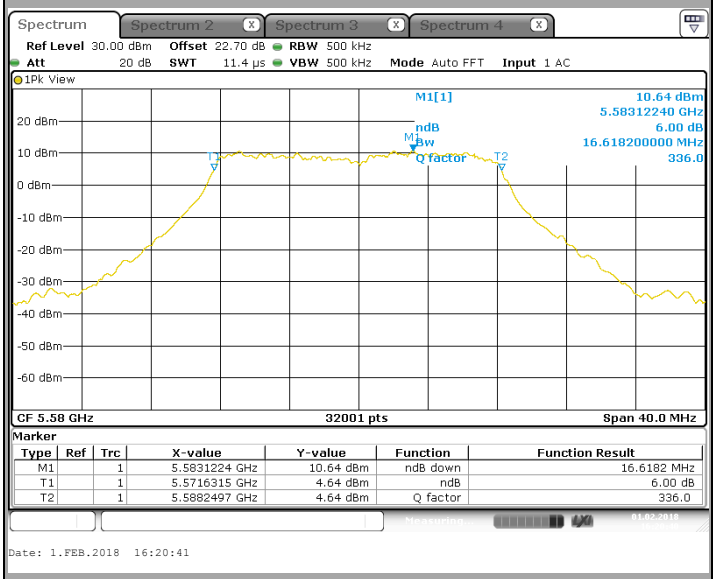
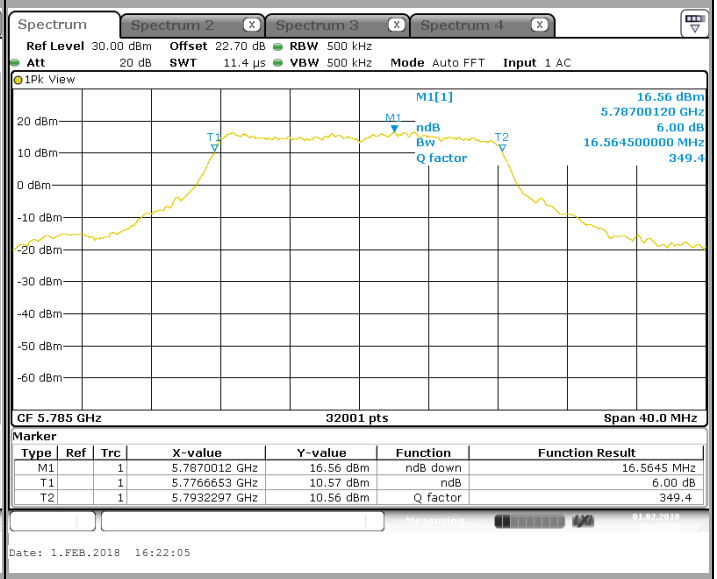


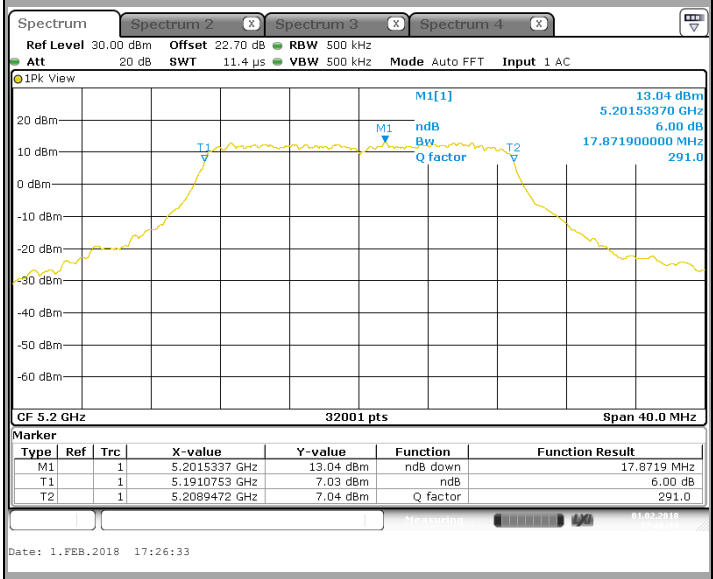
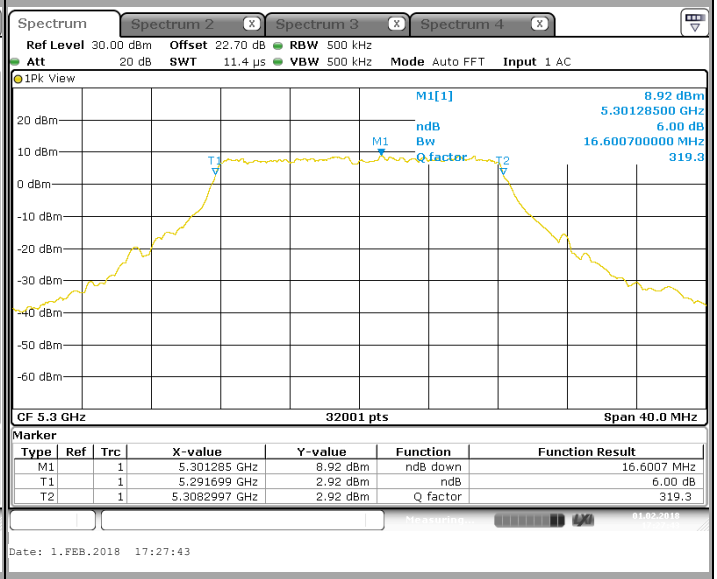
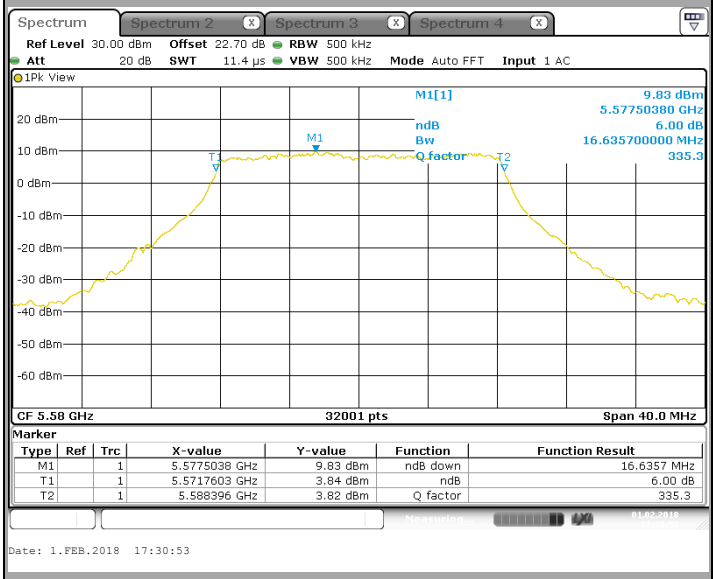
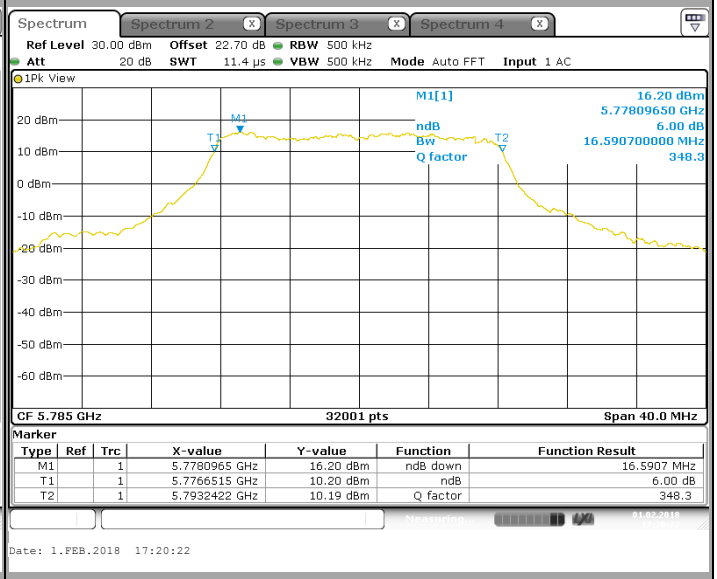
| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tmin | |
| Vnom | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

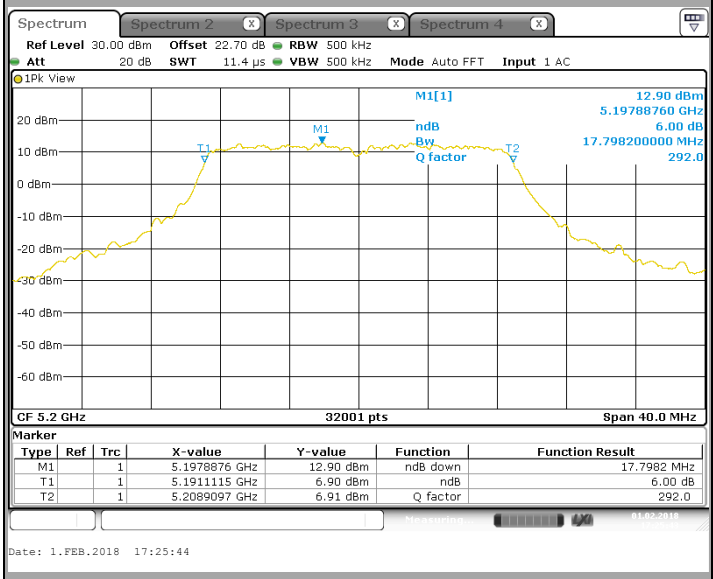
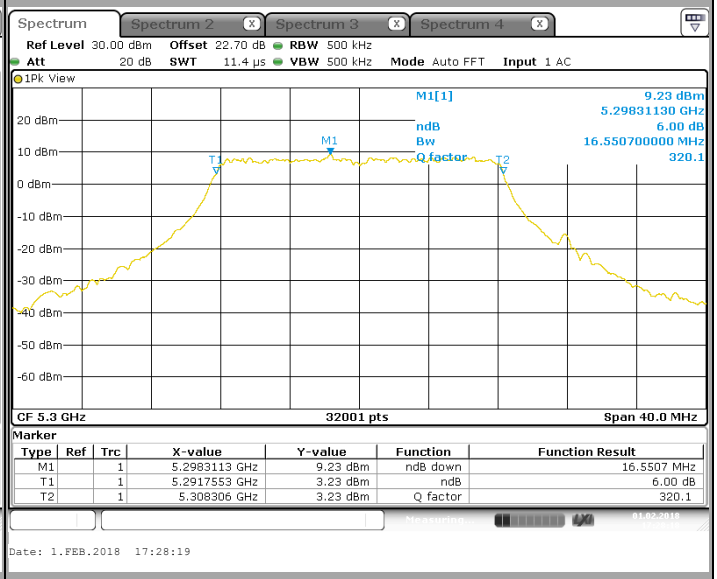
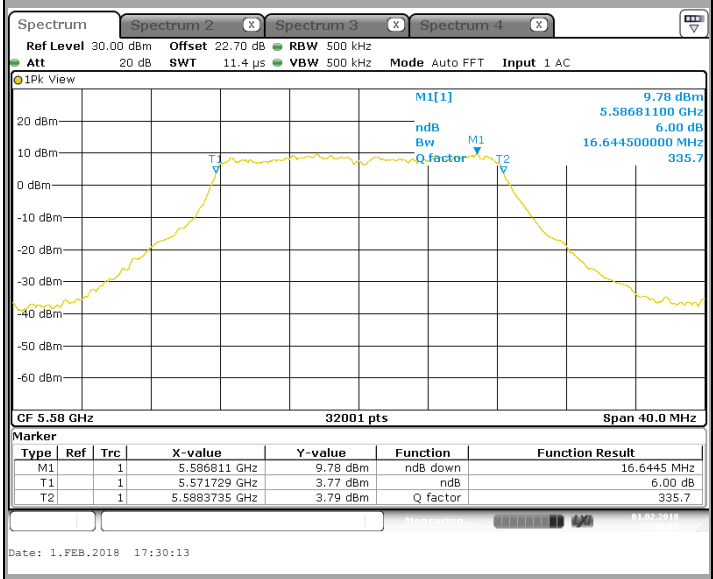
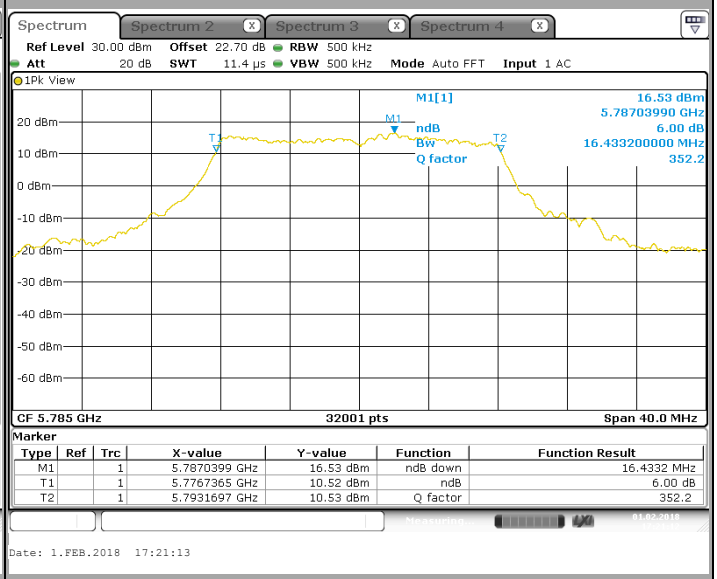
| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tmin | |
| Vmax | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

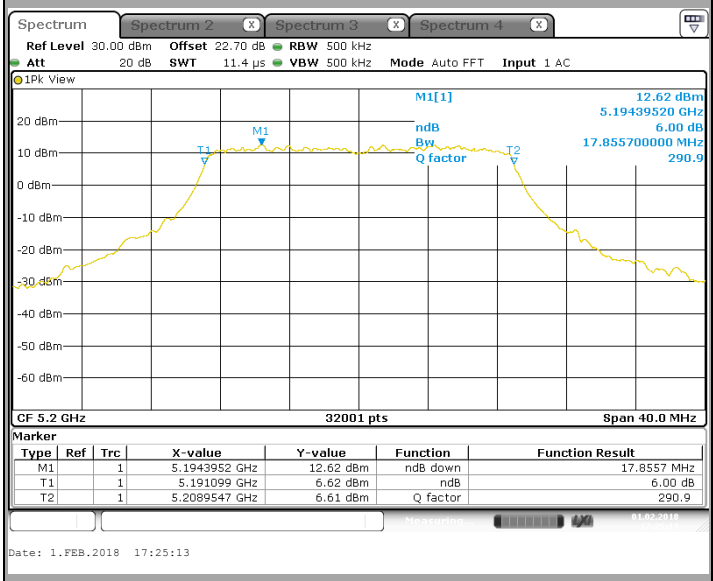
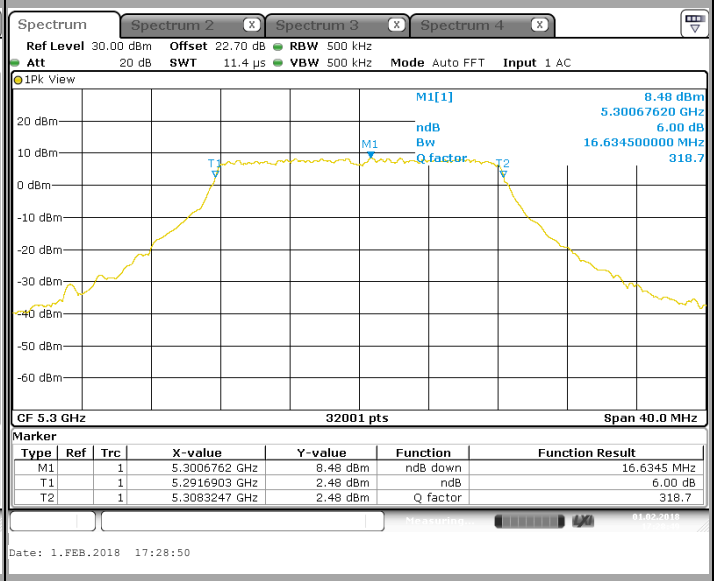
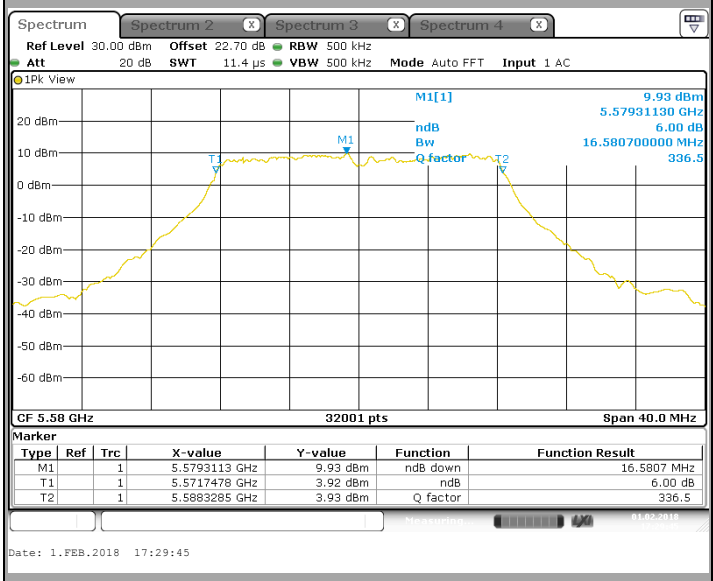
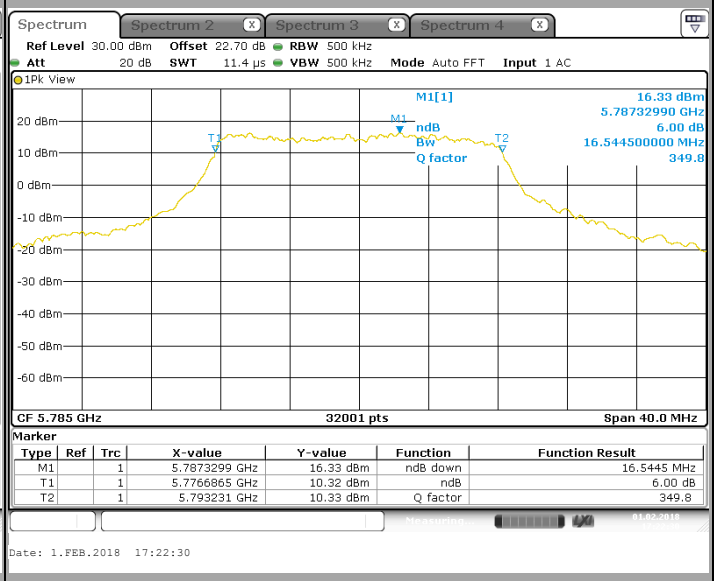
| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tnom | |
| Vmin | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tnom | |
| Vnom | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tnom | |
| Vmax | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tmax | |
| Vmin | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tmax | |
| Vnom | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

| 802.11a/802.11nHT20/ac VHT20 | |
|---|---|
| Tmax | |
| Vmax | |
| C2 | C5 |
|  |  |
| C8 | C12 |
|  |  |

**802.11a/802.11nHT20/ac VHT20**

| Temperature | Tmin | | | | Tnom | | | | Tmax | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Voltage** | **Vmin** | | | | | | | | | | | |
| **Channel** | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 |
| Fmin (MHz) | 5191,1 | 5291,7 | 5571,8 | 5776,8 | 5191,1 | 5291,7 | 5571,7 | 5776,7 | 5191,07 | 5291,7 | 5571,7 | 5776,6 |
| Fmax (MHz) | 5208,9 | 5308,3 | 5588,4 | 5793,3 | 5208,9 | 5308,3 | 5588,2 | 5793,3 | 5208,9 | 5308,3 | 5588,4 | 5793,2 |
| Fcent (MHz) | 5200 | 5300 | 5580,1 | 5785,05 | 5200 | 5300 | 5579,95 | 5785 | 5199,985 | 5300 | 5580,05 | 5784,9 |
| **Voltage** | **Vnom** | | | | | | | | | | | |
| **Channel** | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 |
| Fmin (MHz) | 5191,1 | 5191,7 | 5571,8 | 5776,8 | 5191,099 | 5291,7 | 5571,7 | 5776,6 | 5191,1 | 5291,7 | 5571,7 | 5776,7 |
| Fmax (MHz) | 5208,92 | 5308,3 | 5588,3 | 5793,3 | 5208,92 | 5308,2 | 5588,2 | 5793,2 | 5208,9 | 5308,3 | 5588,4 | 5793,2 |
| Fcent (MHz) | 5200,01 | 5250 | 5580,05 | 5785,05 | 5200,0095 | 5299,95 | 5579,95 | 5784,9 | 5200 | 5300 | 5580,05 | 5784,95 |
| **Voltage** | **Vmax** | | | | | | | | | | | |
| **Channel** | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 | C2 | C5 | C8 | C12 |
| Fmin (MHz) | 5191,07 | 5291,7 | 5571,8 | 5776,8 | 5191,07 | 5291,6 | 5571,6 | 5776,7 | 5191,1 | 5291,7 | 5571,7 | 5776,7 |
| Fmax (MHz) | 5208,93 | 5308,4 | 5588,2 | 5793,3 | 5208,93 | 5308,3 | 5588,2 | 5793,2 | 5208,9 | 5308,3 | 5588,3 | 5793,2 |
| Fcent (MHz) | 5200 | 5300,05 | 5580 | 5785,05 | 5200 | 5299,95 | 5579,9 | 5784,95 | 5200 | 5300 | 5580 | 5784,95 |

## 4.7. CONCLUSION

Carrier frequencies measurement performed on the sample of the product **SAGEMCOM FAST 5260**, SN: **NQ1736013023187**, in configuration and description presented in this test report, show levels **compliant** to the 47 CFR PART 15.407 & RSS 247 ISSUE 2 limits.

# 5. 26DB EMISSION BANDWIDTH

## 5.1. TEST CONDITIONS

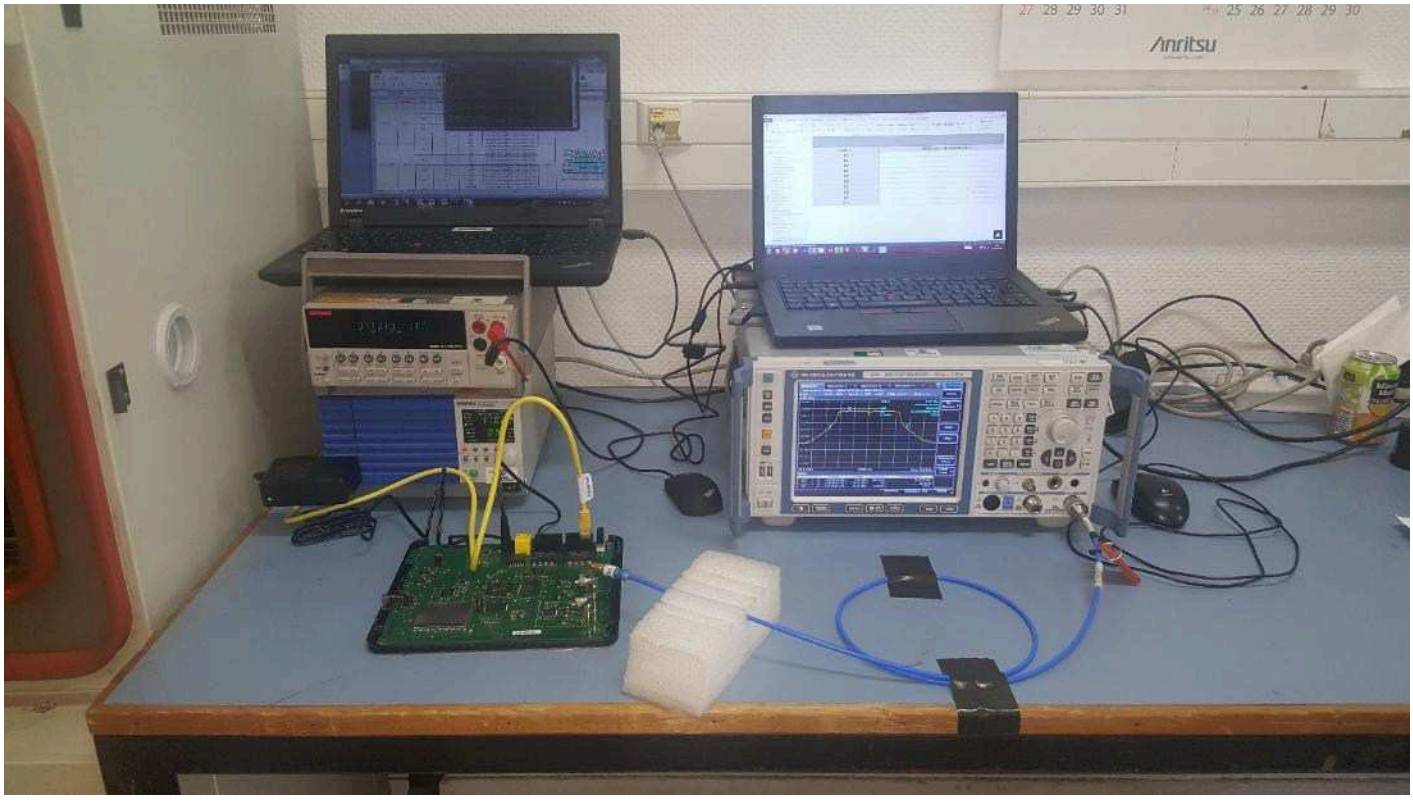
| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 1, 2018 |
| Ambient temperature | : 25 °C |
| Relative humidity | : 43 % |

## 5.2. TEST SETUP

- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § C1




Photograph for 26dB emission bandwidth

## 5.3. LIMIT

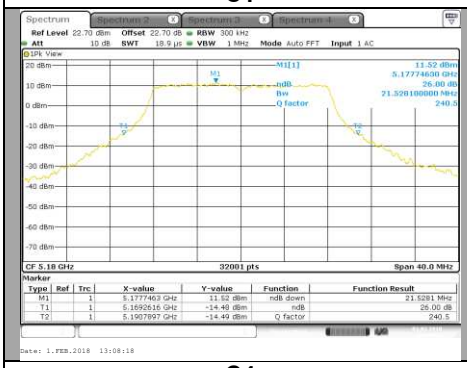
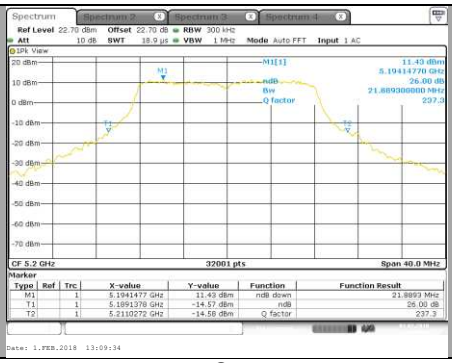
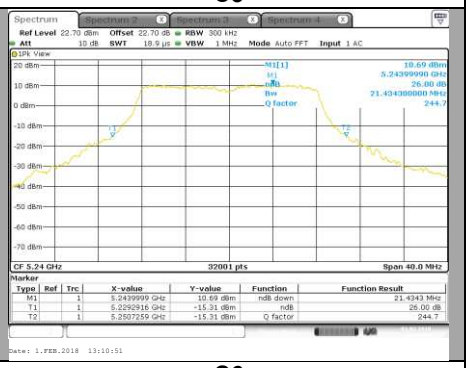
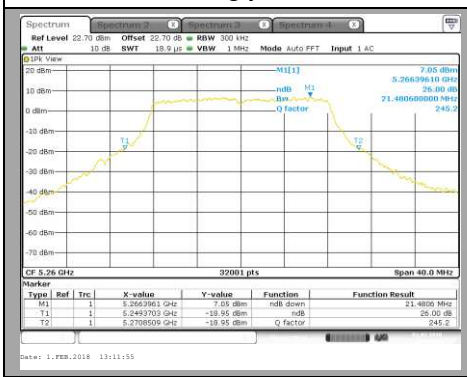
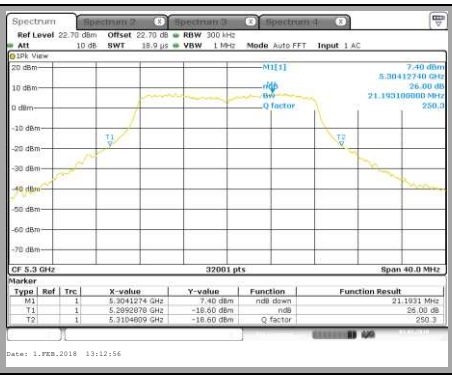
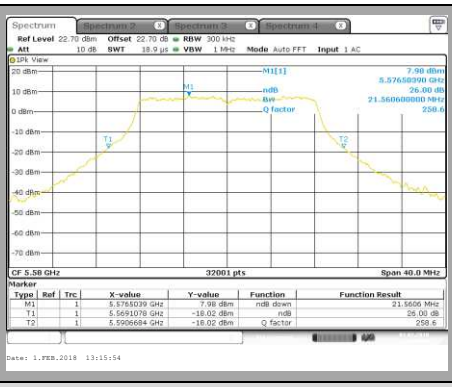
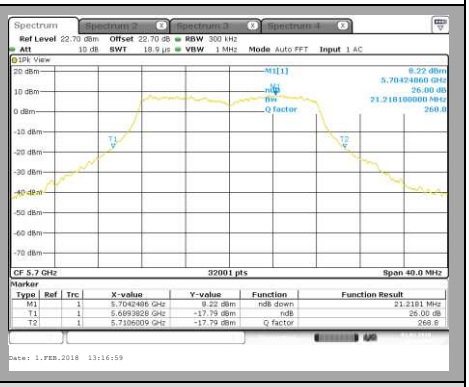
None

## 5.4. TEST EQUIPMENT LIST

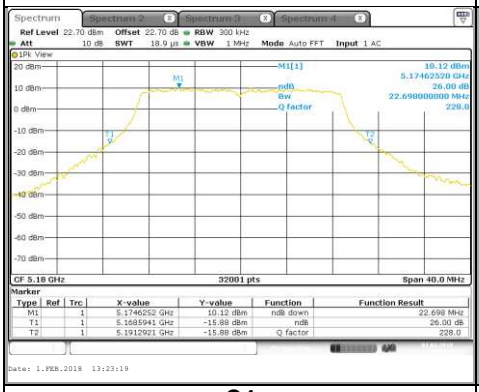
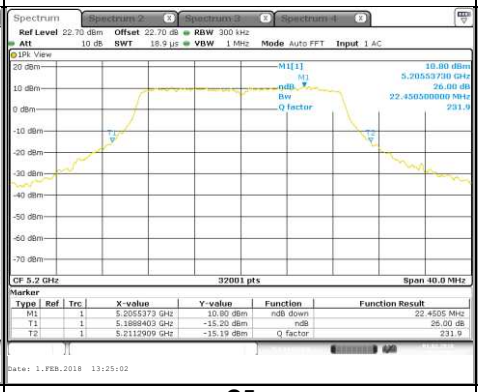
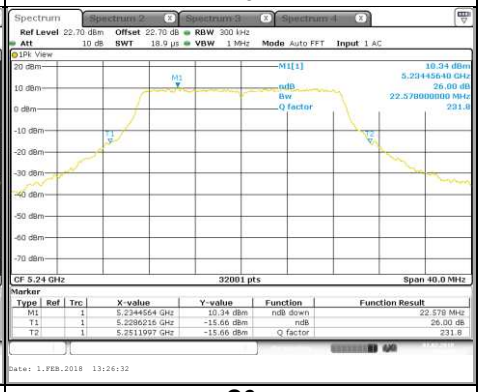
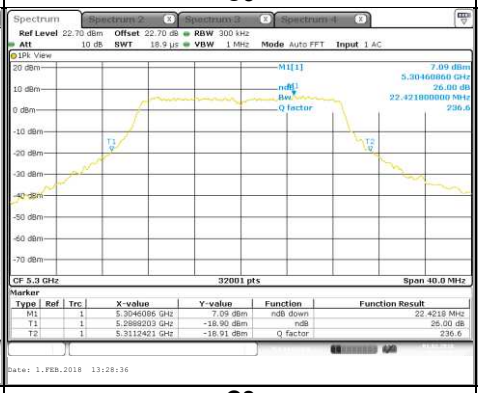
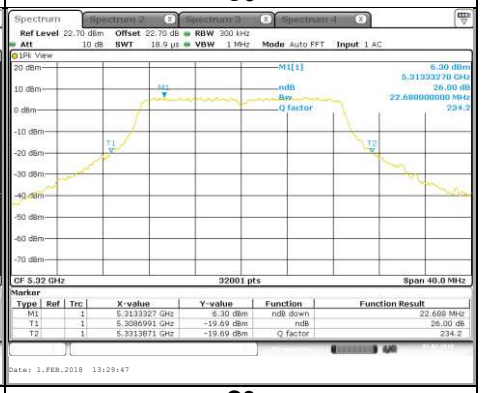
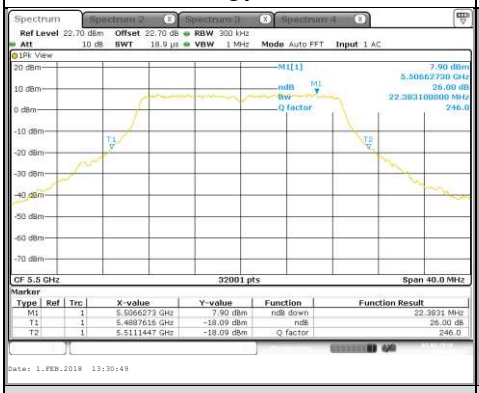
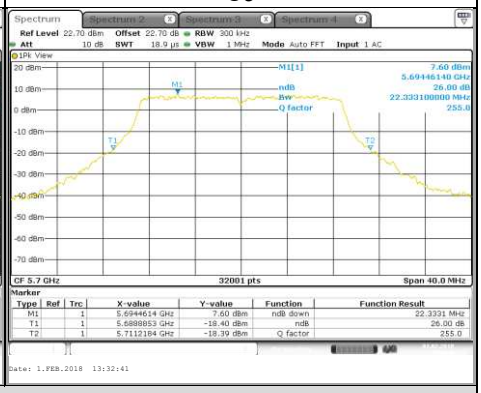
| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

Note: In our quality system, the test equipment calibration due is more & less 2 months

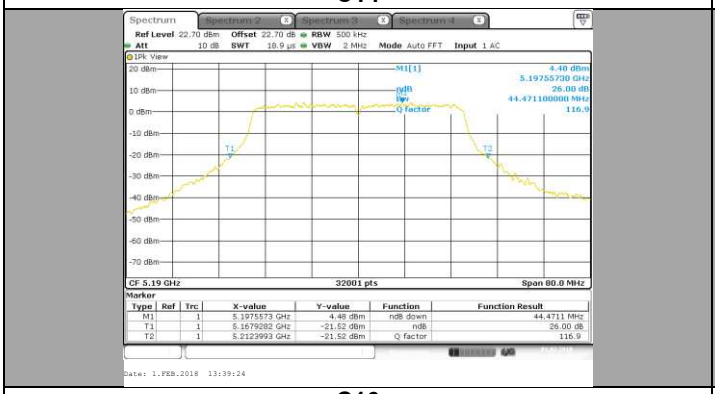
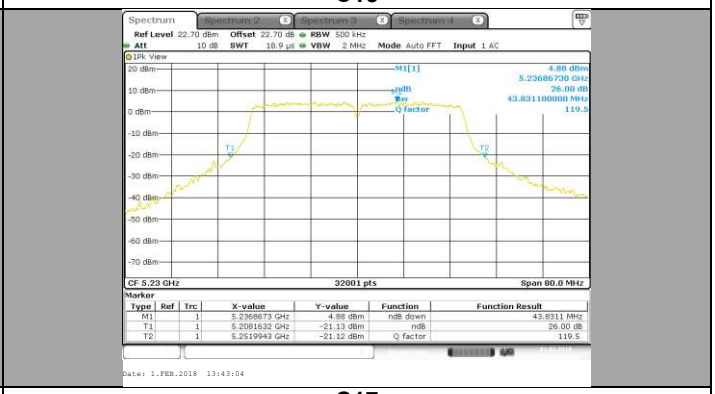
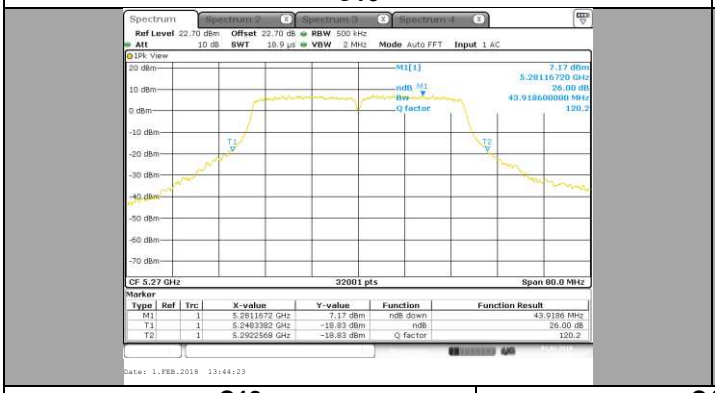
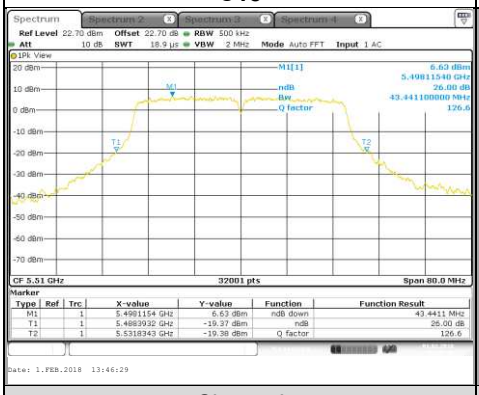
## 5.5. RESULTS

| 802.11a | | |
|---|---|---|
| **C1** | **C2** | **C3** |
|  |  |  |
| **C4** | **C5** | **C6** |
|  |  |  |
| **C7** | **C8** | **C9** |
|  |  |  |

| Channel | 26dB Emission Bandwidth (MHz) |
|---|---|
| **C1** | 21,53 |
| **C2** | 21,89 |
| **C3** | 21,43 |
| **C4** | 21,48 |
| **C5** | 21,19 |
| **C6** | 21,06 |
| **C7** | 21,36 |
| **C8** | 21,56 |
| **C9** | 21,22 |

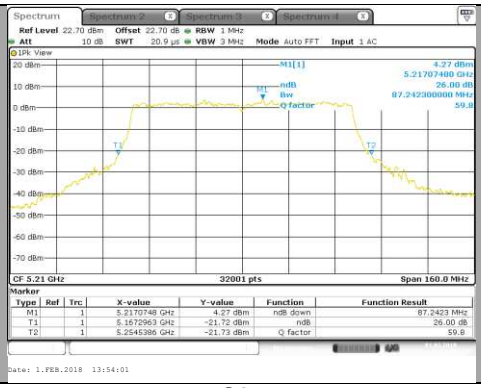
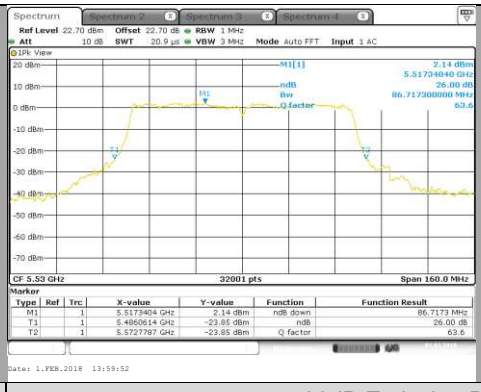
| 802.11n HT20/ac VHT20 | | |
|---|---|---|
| C1 | C2 | C3 |
|  |  |  |
| C4 | C5 | C6 |
|  |  |  |
| C7 | C8 | C9 |
|  |  |  |

| Channel | 26dB Emission Bandwidth (MHz) |
|---|---|
| **C1** | 22,70 |
| **C2** | 22,45 |
| **C3** | 22,58 |
| **C4** | 22,88 |
| **C5** | 22,42 |
| **C6** | 22,69 |
| **C7** | 22,38 |
| **C8** | 22,48 |
| **C9** | 22,33 |

| 802.11n HT40/ac VHT40 | |
|---|---|
| C14 | C15 |
|  |  |
| C16 | C17 |
|  |  |
| C18 | C19 |
|  |  |

| C20 |
|---|
|  |

| Channel | 26dB Emission Bandwidth (MHz) |
|---|---|
| **C14** | 44,47 |
| **C15** | 43,83 |
| **C16** | 43,92 |
| **C17** | 44,44 |
| **C18** | 43,44 |
| **C19** | 42,79 |
| **C20** | 43,22 |

| 802.11ac VHT80 | |
|---|---|
| C24 | |
|  | |
| C25 | |
|  | |
| C26 | |
|  | |
| Channel | 26dB Emission Bandwidth (MHz) |
| **C24** | 87,24 |
| **C25** | 86,13 |
| **C26** | 86,72 |

## 5.6. CONCLUSION

26dB Emission Bandwidth measurement performed on the sample of the product **SAGEMCOM FAST 5260**, SN: **NQ1736013023187**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS 247 ISSUE 2** limits.

# 6. 6DB EMISSION BANDWIDTH

## 6.1. TEST CONDITIONS

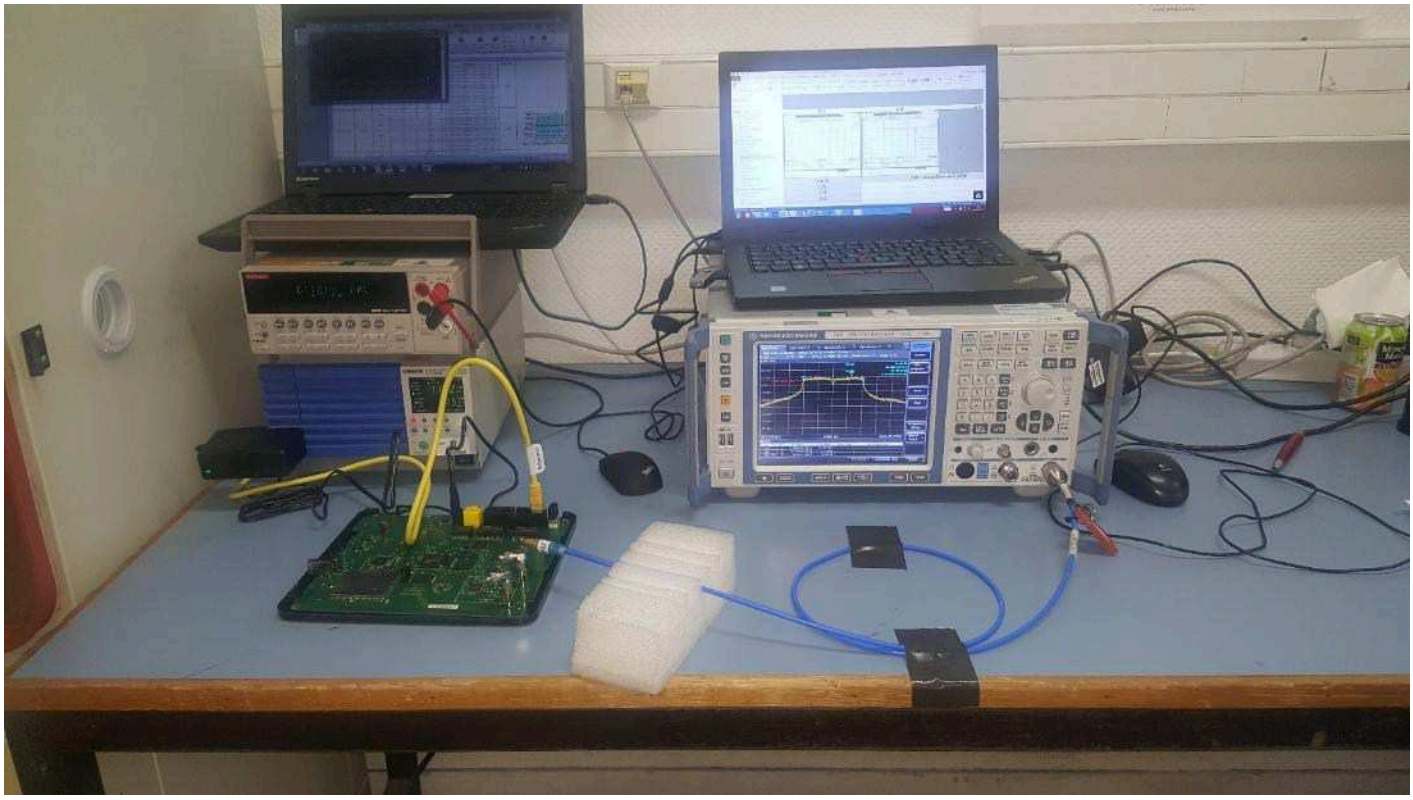
| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 1, 2018 |
| Ambient temperature | : 25 °C |
| Relative humidity | : 43 % |

## 6.2. TEST SETUP

- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § C2



Photograph for 6dB emission bandwidth

## 6.3. LIMIT

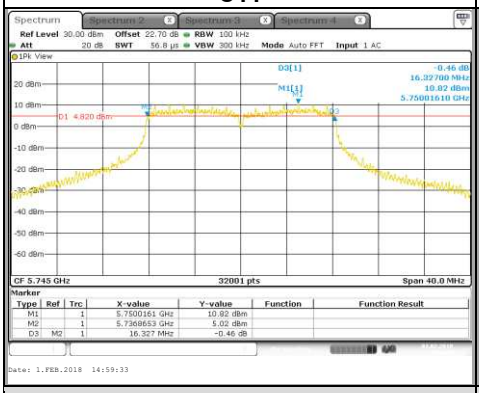
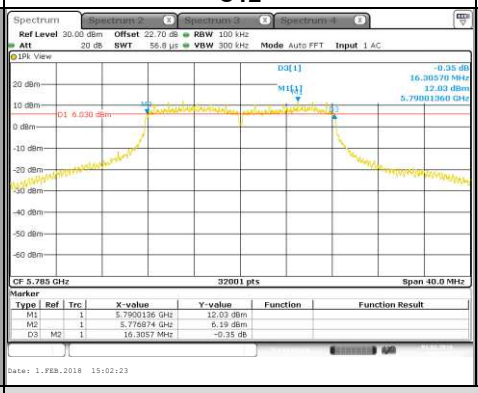
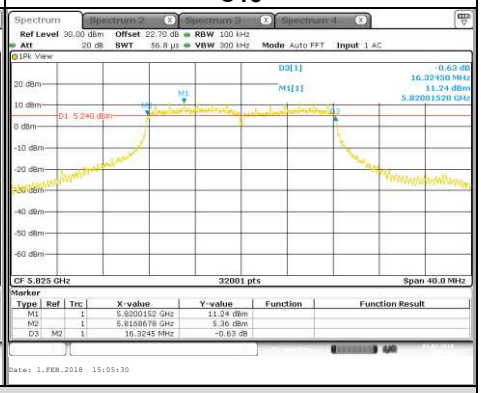
The 6dB bandwidth shall be at least 500kHz

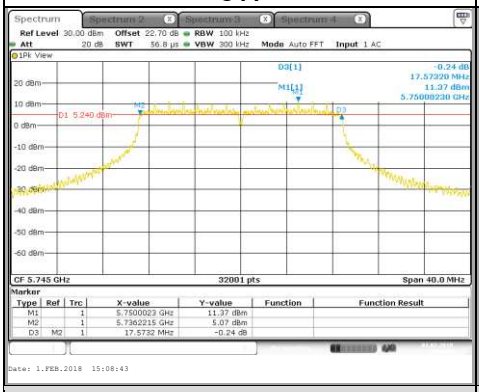
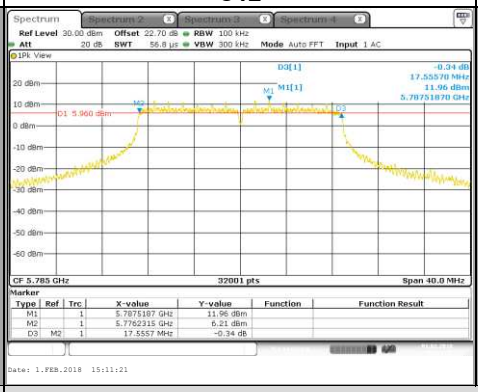
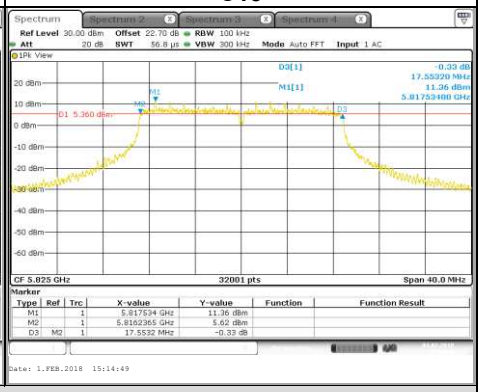
## 6.4. TEST EQUIPMENT LIST

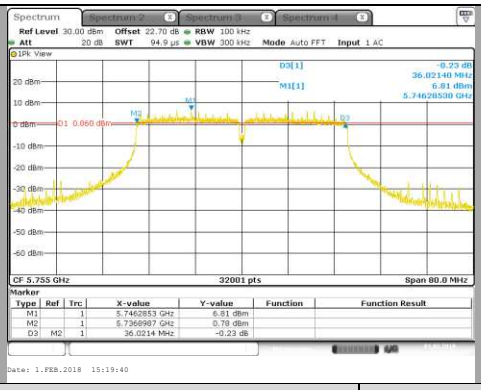
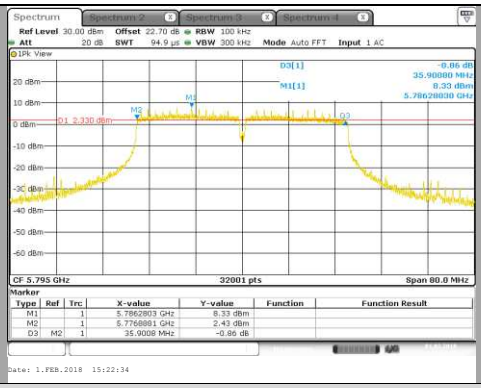
| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

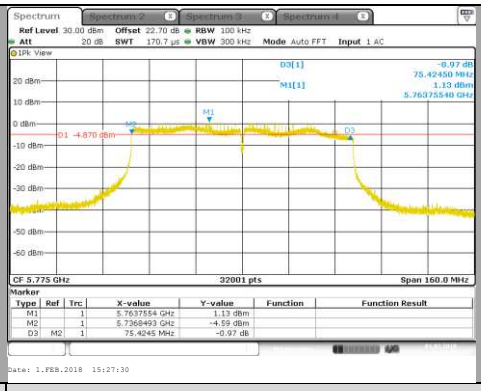
Note: In our quality system, the test equipment calibration due is more & less 2 months

## 6.5. RESULTS

| 802.11a | | |
|---|---|---|
| **C11** | **C12** | **C13** |
|  |  |  |
| Channel | 6dB Emission Bandwidth (MHz) | |
| **C11** | 16,327 | |
| **C12** | 16,305 | |
| **C13** | 16,324 | |

| 802.11n HT20/ac VHT20 | | |
|---|---|---|
| **C11** | **C12** | **C13** |
|  |  |  |
| Channel | 6dB Emission Bandwidth (MHz) | |
| **C11** | 17,573 | |
| **C12** | 17,556 | |
| **C13** | 17,553 | |

| 802.11n HT40/ac VHT40 | |
|---|---|
| **C22** | **C23** |
|  |  |
| Channel | 6dB Emission Bandwidth (MHz) |
| **C22** | 36,021 |
| **C23** | 35,901 |

| 802.11ac VHT80 |
|---|
| **C29** |
|  |
| Channel | 6dB Emission Bandwidth (MHz) |
| **C29** | 75,424 |

## 6.6. CONCLUSION

6dB Emission Bandwidth measurement performed on the sample of the product **SAGEMCOM FAST 5260**, SN: **NQ1736013023187**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS 247 ISSUE 2** limits.

# 7. DUTY CYCLE

## 7.1. TEST CONDITIONS

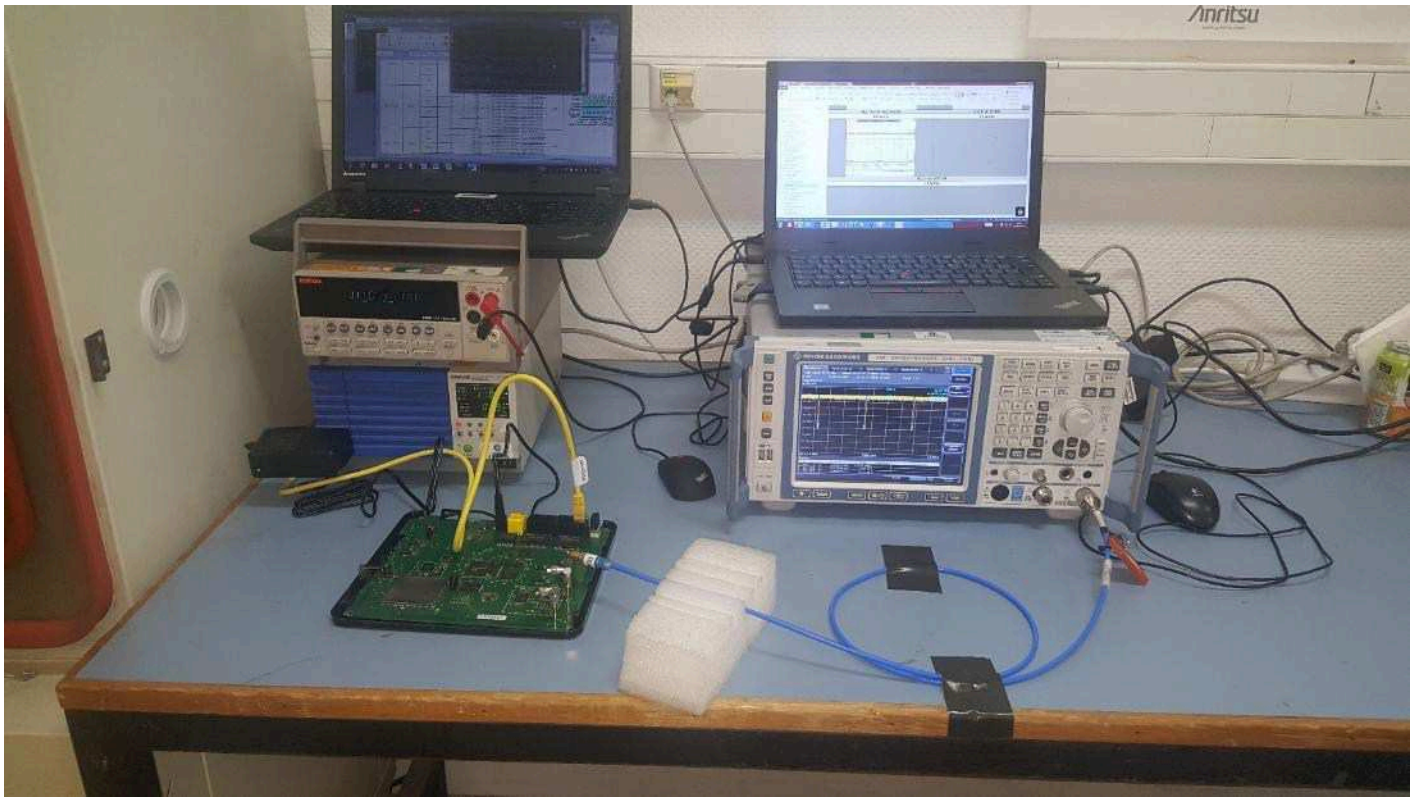
| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 1, 2018 |
| Ambient temperature | : 25 °C |
| Relative humidity | : 43 % |

## 7.2. TEST SETUP

- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § B2 b)




Photograph for Duty Cycle

## 7.3. LIMIT

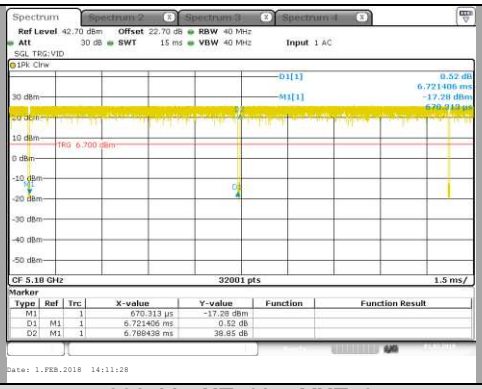
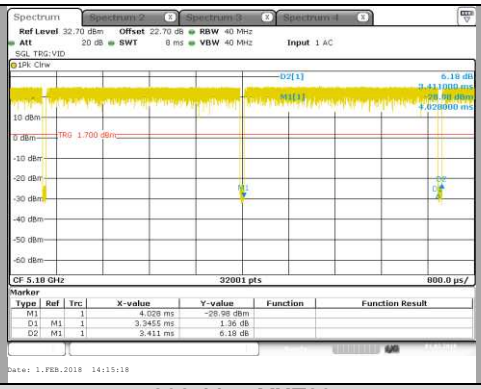
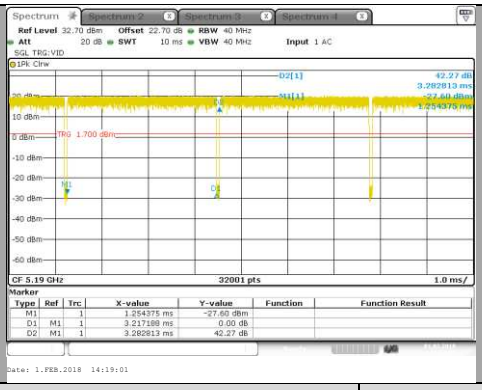
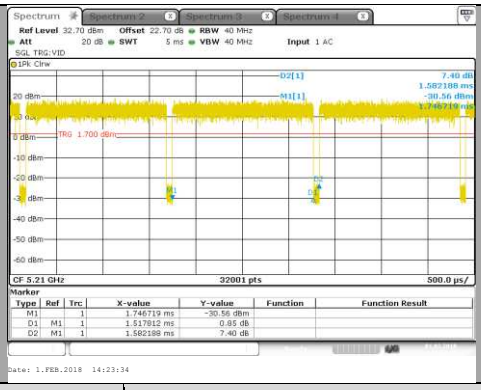
None

## 7.4. TEST EQUIPMENT LIST

| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

Note: In our quality system, the test equipment calibration due is more & less 2 months

## 7.5. RESULTS

| 802.11a | 802.11n HT20/ac VHT20 |
|---|---|
| Channel | Channel |
|  |  |
| **802.11n HT40/ac VHT40** | **802.11ac VHT80** |
| Channel | Channel |
|  |  |

| Mode | Duty Cycle (%) | Duty Cycle Correction (dB) |
|---|---|---|
| **802.11a** | 99,89 | 0,0095 |
| **802.11n HT20/ac VHT20** | 98,08 | 0,168 |
| **802.11n HT40/ac VHT40** | 98,002 | 0,175 |
| **802.11ac VHT80** | 95,93 | 0,361 |

## 7.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **SAGEMCOM FAST 5260**, SN: **NQ1736013023187**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS 247 ISSUE 2** limits.

# 8. MAXIMUM CONDUCTED OUTPUT POWER, MAXIMUM POWER SPECTRAL DENSITY, MAXIMUM EIRP, MAXIMUM EIRP SPECTRAL DENSITY

## 8.1. TEST CONDITIONS

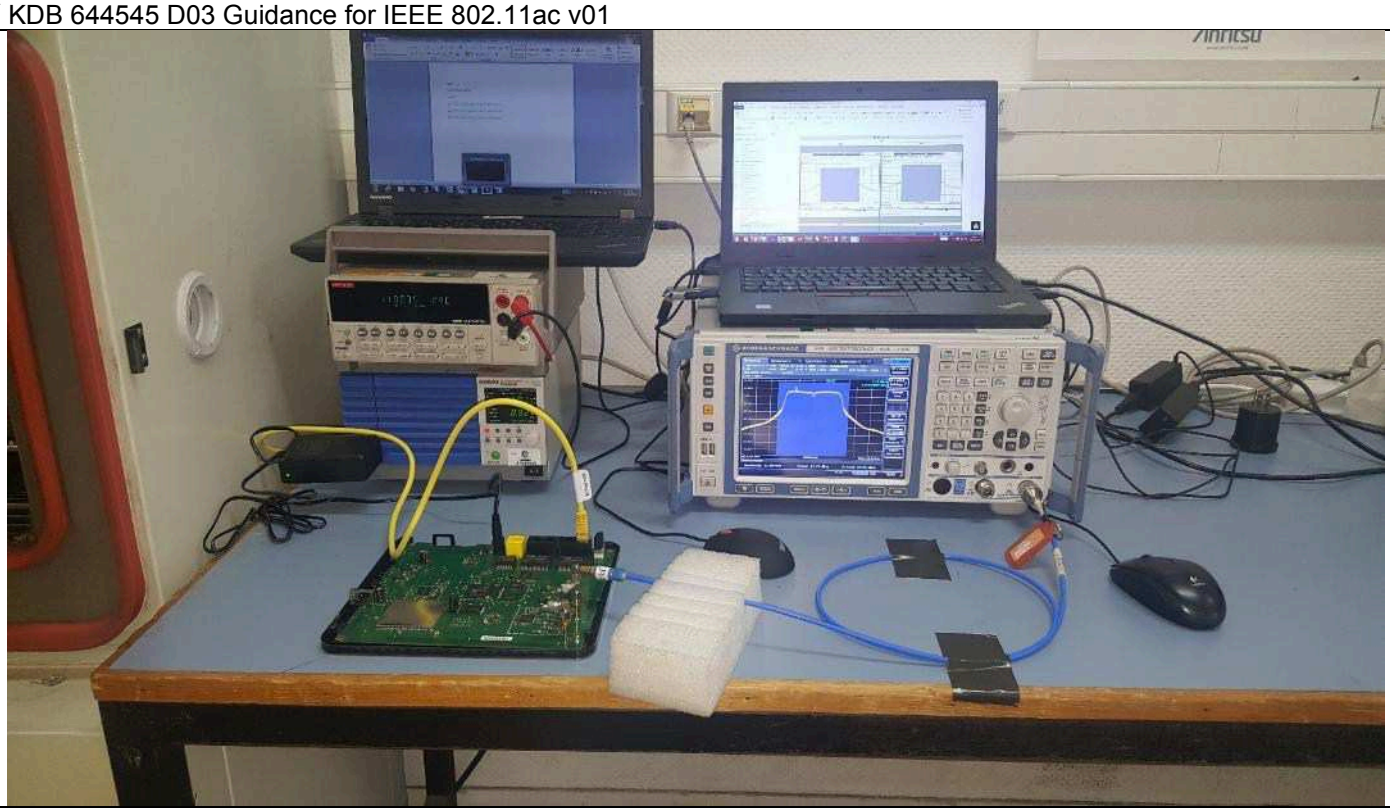
| | |
|---|---|
| Test performed by | : Armand MAHOUNGOU |
| Date of test | : February 2, 2018 |
| Ambient temperature | : 26 °C |
| Relative humidity | : 44 % |

## 8.2. TEST SETUP

- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § E2 b) (Method SA-1) & F
☐ KDB 789033 D02 General UNII Test Procedures New Rules v01r02 § E2 c) (Method SA-2) & F
☑ KDB 662911 D01 Multiple Transmitter Output v02r01
☑ KDB 644545 D03 Guidance for IEEE 802.11ac v01



Photograph for Maximum Conducted Output Power

## 8.3. LIMIT

FCC Part 15.407
Maximum Conducted Output power:
5150MHz-5250MHz: Shall not exceed 30dBm for Indoor Access Point devices & 24dBm for Client devices
5250MHz-5350MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))
5470MHz-5725MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))
5725MHz-5850MHz: Shall not exceed 30dBm
Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum Power Spectral Density:
5150MHz-5250MHz: Shall not exceed 17dBm/MHz for Indoor Access Point & 11dBm/MHz for Client devices
5250MHz-5350MHz: Shall not exceed 11dBm/MHz
5470MHz-5725MHz: Shall not exceed 11dBm/MHz
5725MHz-5850MHz: Shall not exceed 30dBm/500kHz
Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

RSS-247
Maximum Conducted Output power:
5250MHz-5350MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))
5470MHz-5725MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))
5725MHz-5850MHz: Shall not exceed 30dBm
Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum Power Spectral Density:
5250MHz-5350MHz: Shall not exceed 11dBm/MHz
5470MHz-5725MHz: Shall not exceed 11dBm/MHz
5725MHz-5850MHz: Shall not exceed 30dBm/500kHz
Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum EIRP:
5150MHz-5250MHz: Shall not exceed 23dBm or 10dBm +10*log (-26dB Bandwidth (MHz))
5250MHz-5350MHz: Shall not exceed 30dBm or 17dBm +10*log (-26dB Bandwidth (MHz)) (Above 23dBm Antenna pattern)
5470MHz-5725MHz : Shall not exceed 30dBm or 17dBm +10*log (-26dB Bandwidth (MHz))

Maximum EIRP Power Spectral Density:
5150MHz-5250MHz: Shall not exceed 10dBm/MHz

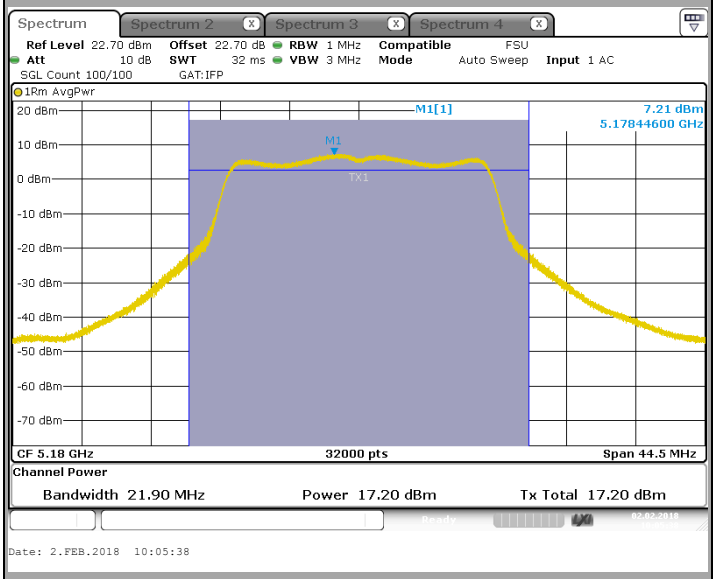
## 8.4. TEST EQUIPMENT LIST

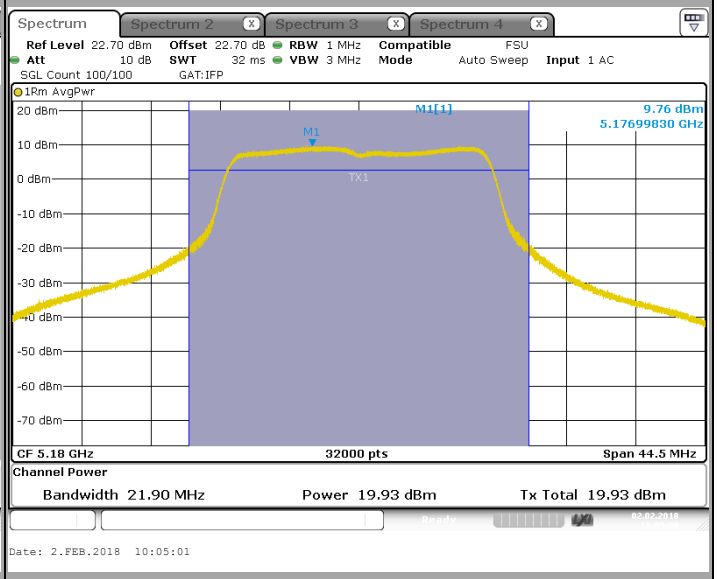
| DESCRIPTION | MANUFACTURER | MODEL | N° LCIE | Cal_Date | Cal_Due |
|---|---|---|---|---|---|
| EMI receiver | ROHDE & SCHWARZ | ESR 7 | A2642023 | 2017/09 | 2018/09 |
| Multi-meter | KEITHLEY | 2000 | A1242090 | 2016/06 | 2018/06 |
| Programmable AC/DC power supply | KIKUSUI | PCR500M | A7040079 | 2016/06 | 2018/06 |
| Load 50 ohms | TELEGARTNER | - | A7150104 | 2017/12 | 2018/12 |
| Load 50 ohms | TELEGARTNER | - | A7150105 | 2017/12 | 2018/12 |
| RF cable & 20 dB attenuator | Télédyne | 920-0202-048 | A5329675 | 2017/09 | 2018/09 |

Note: In our quality system, the test equipment calibration due is more & less 2 months

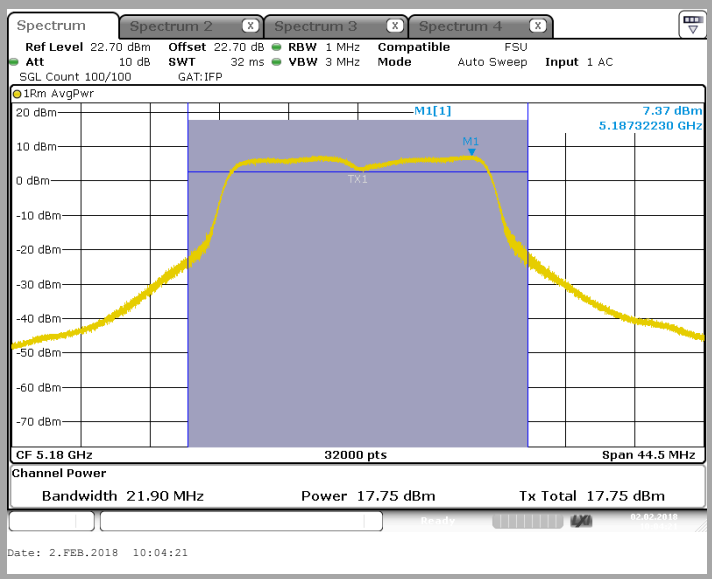
## 8.5. RESULTS

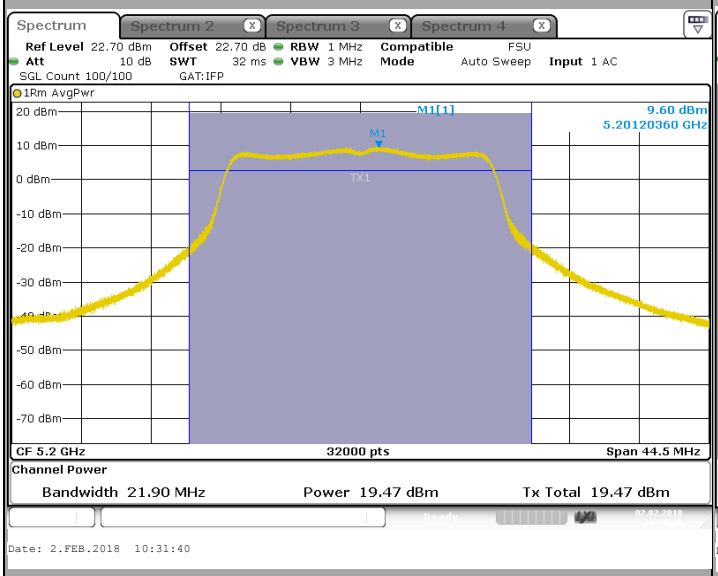
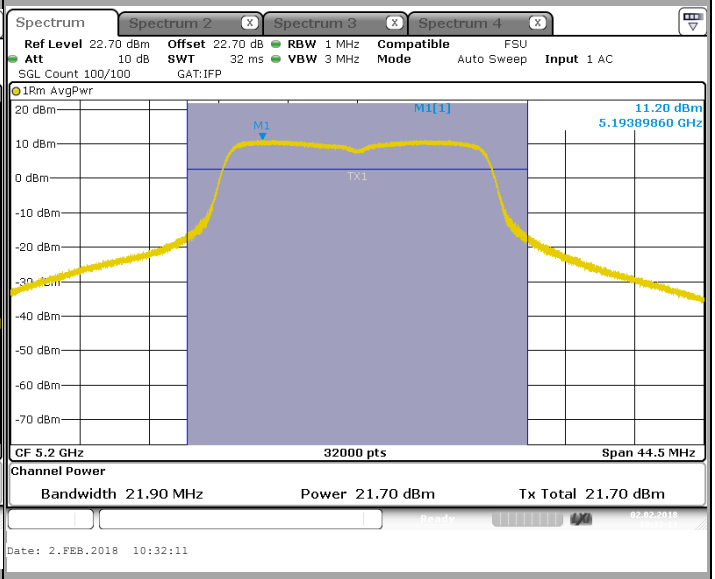
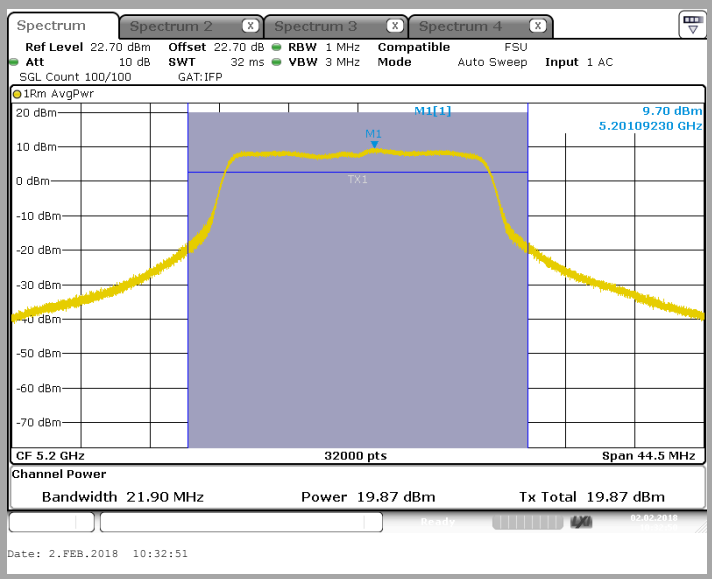
| 802.11a | |
|---|---|
| C1 | |
| Tx1 | Tx2 |

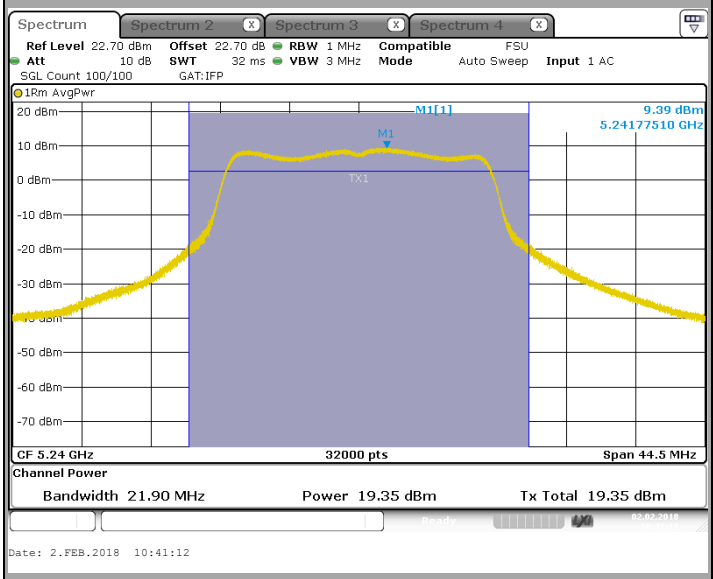
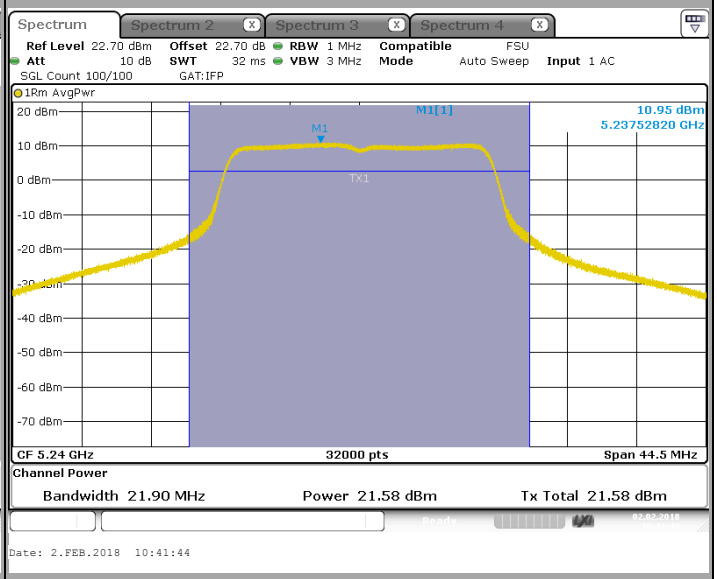
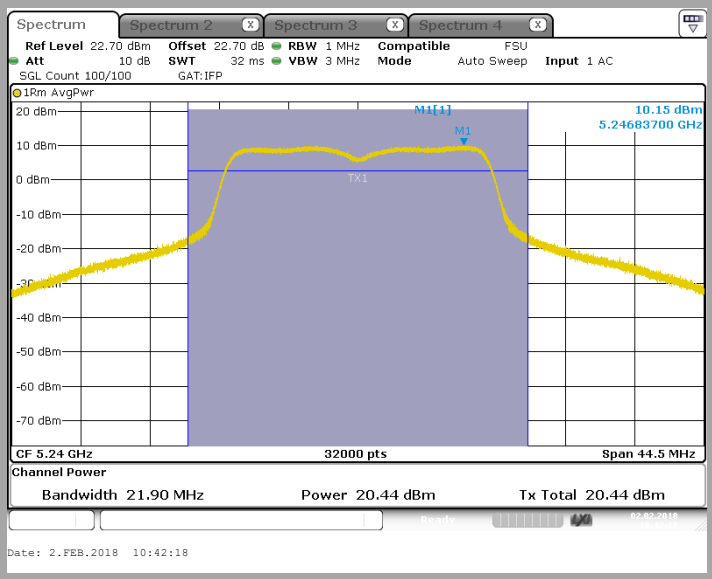


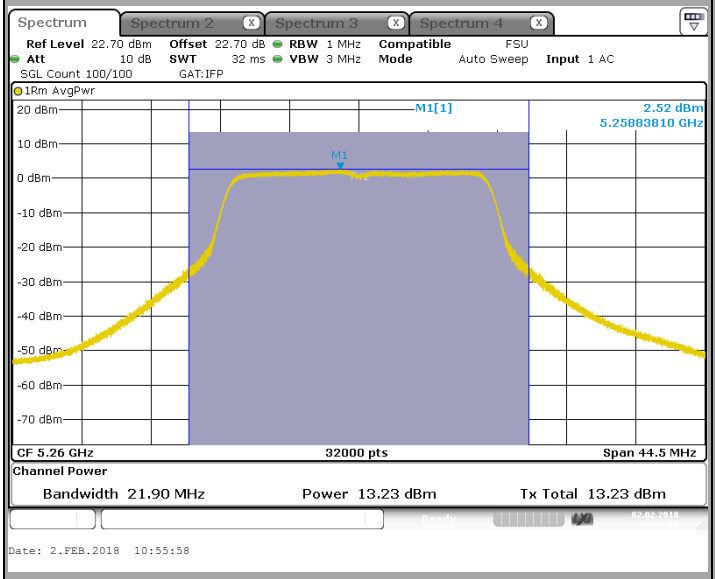
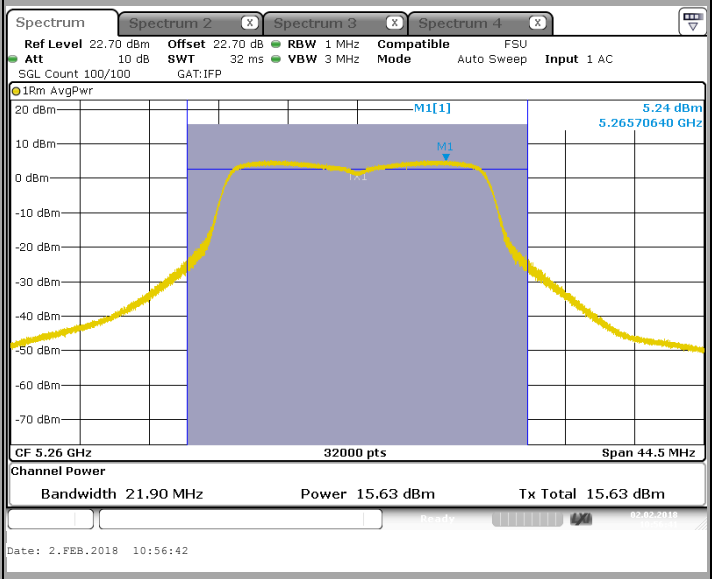
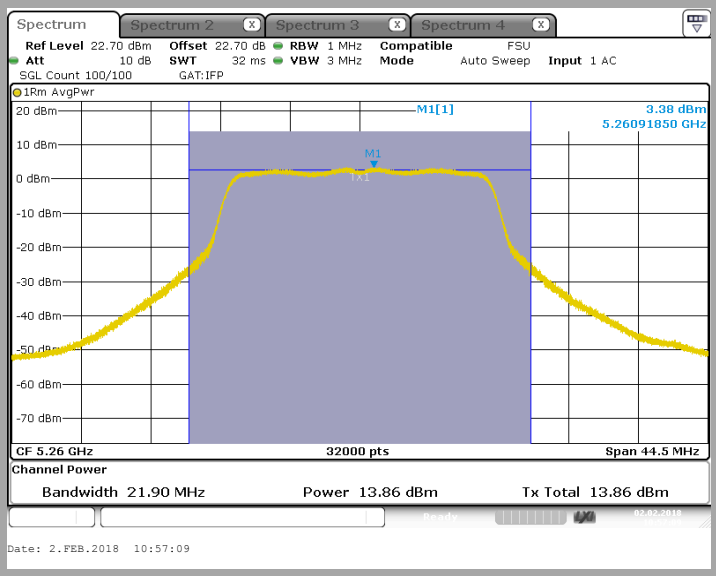



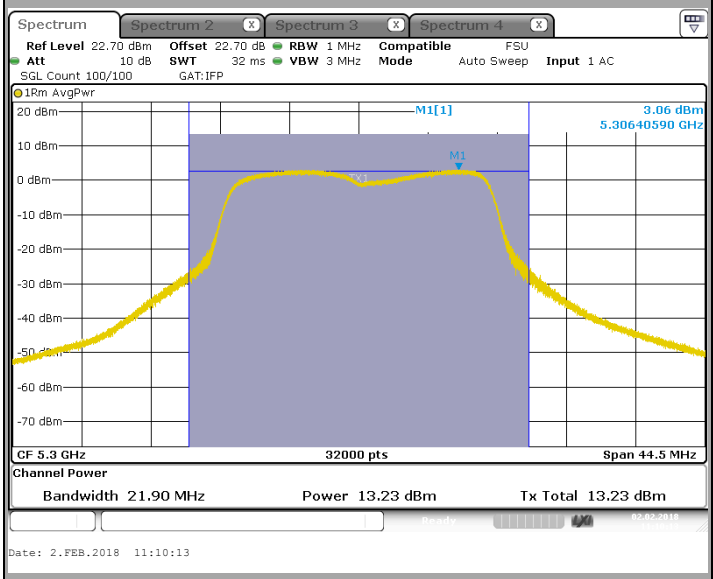
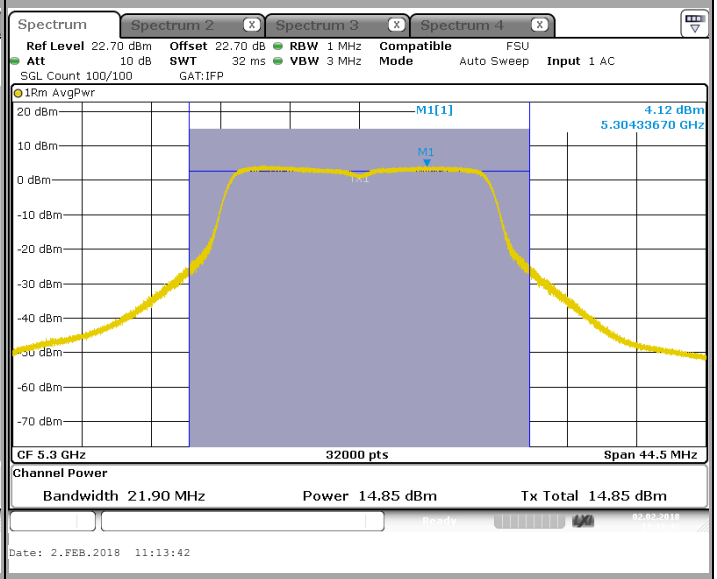
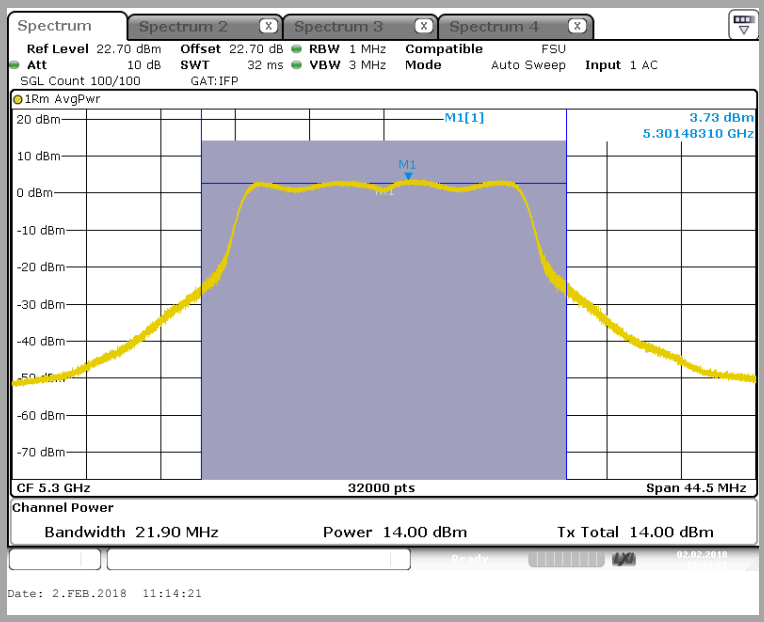

| Tx3 |
|---|

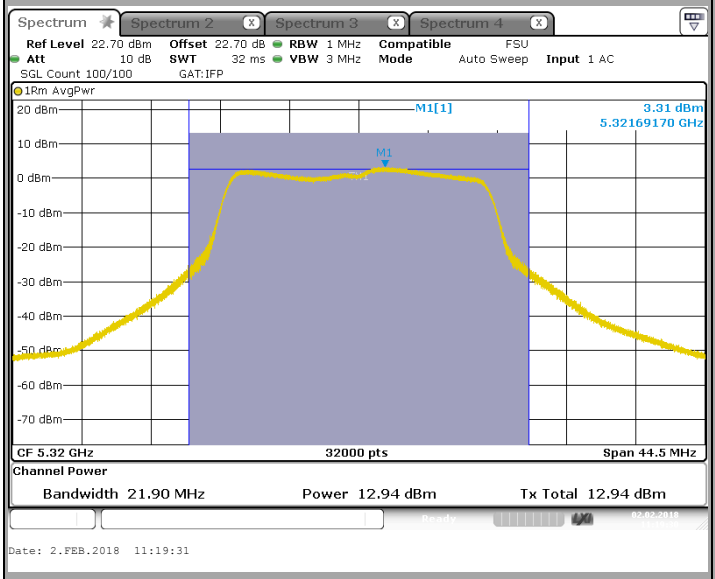
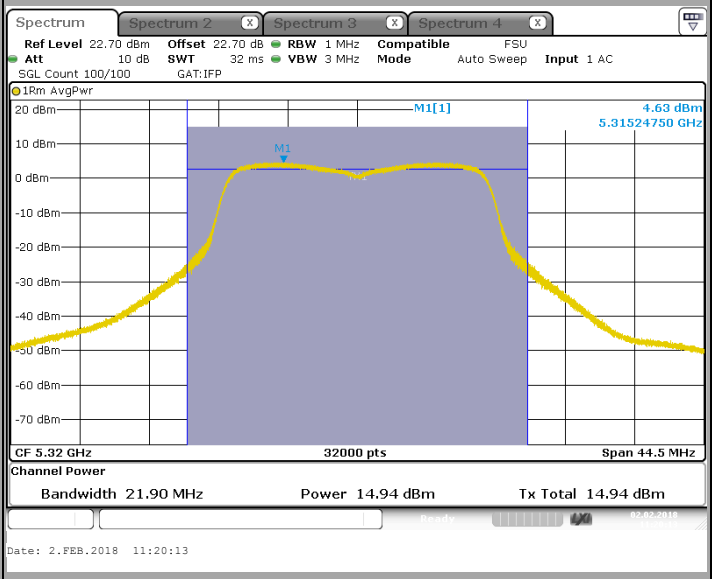
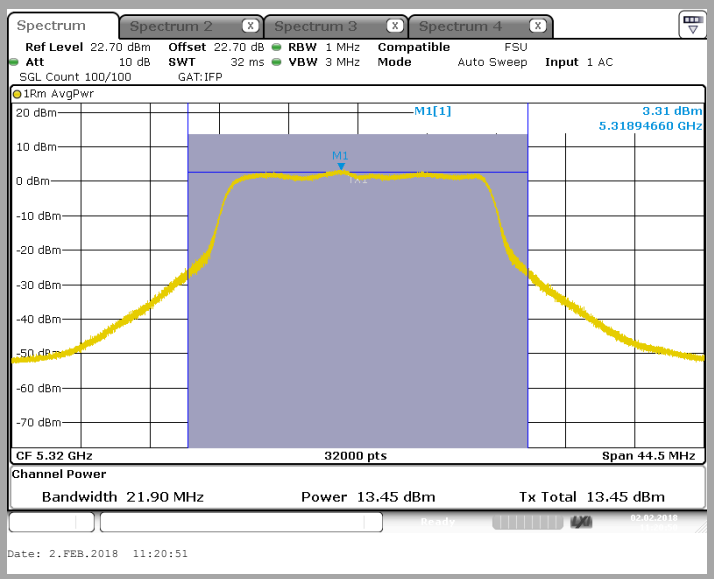


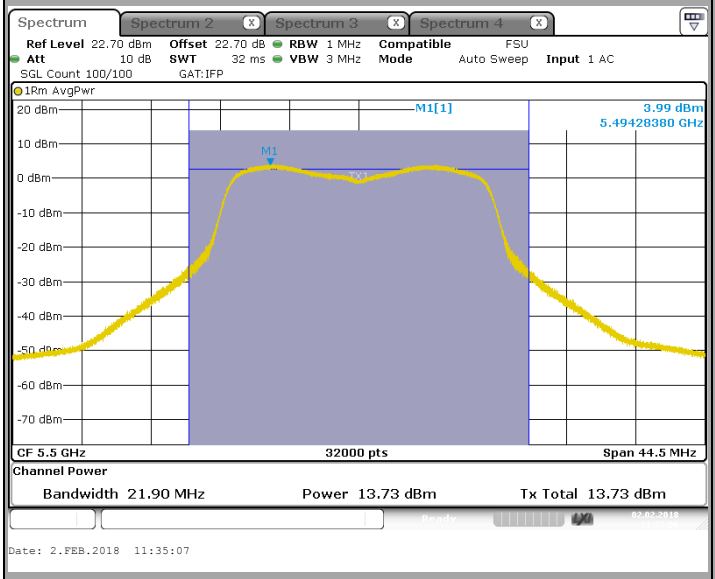
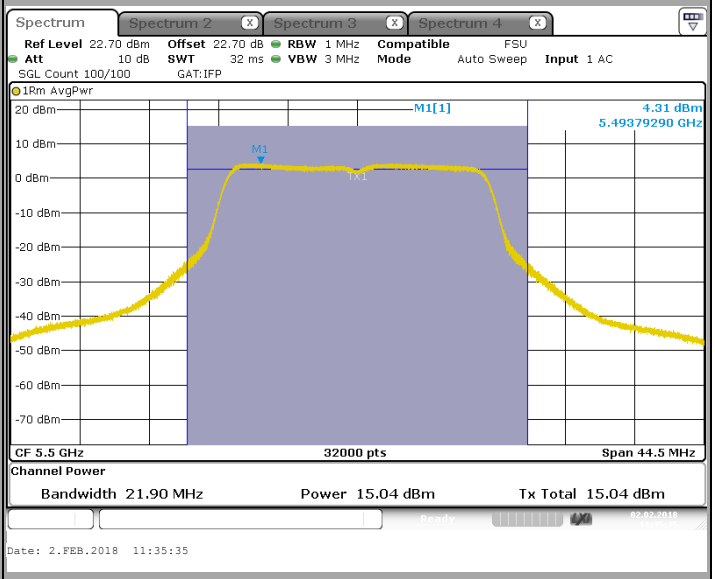
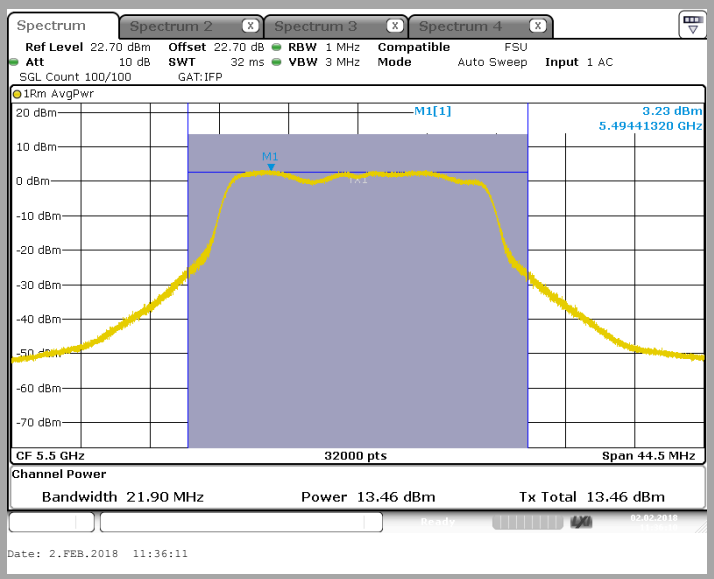
| 802.11a | |
|---|---|
| C2 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

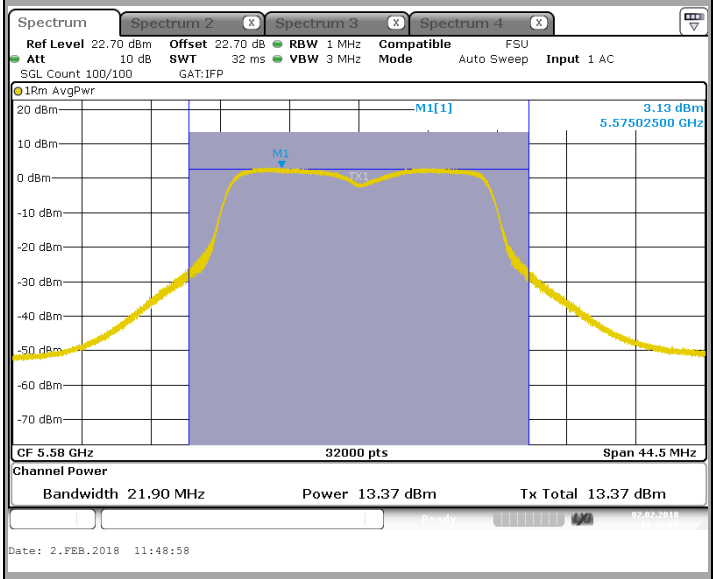
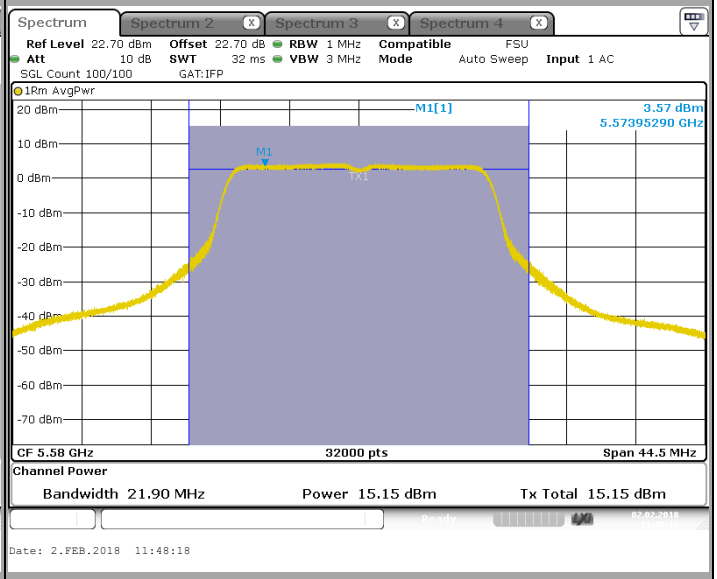
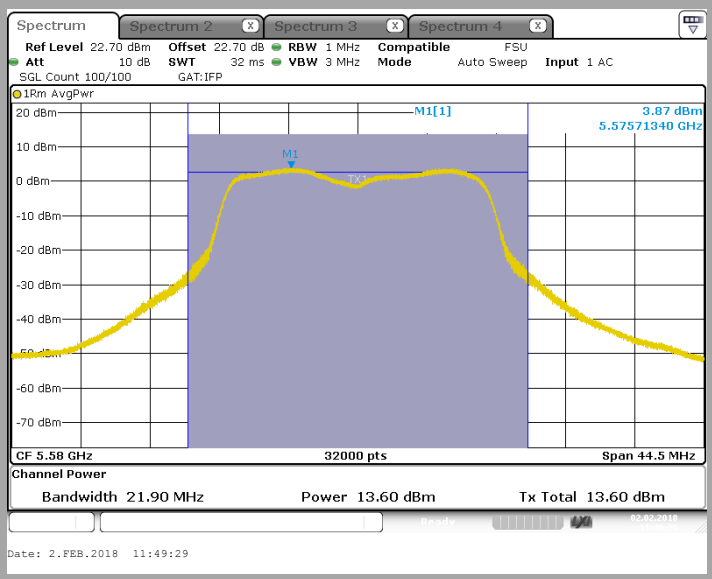
| 802.11a | |
|---|---|
| C3 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

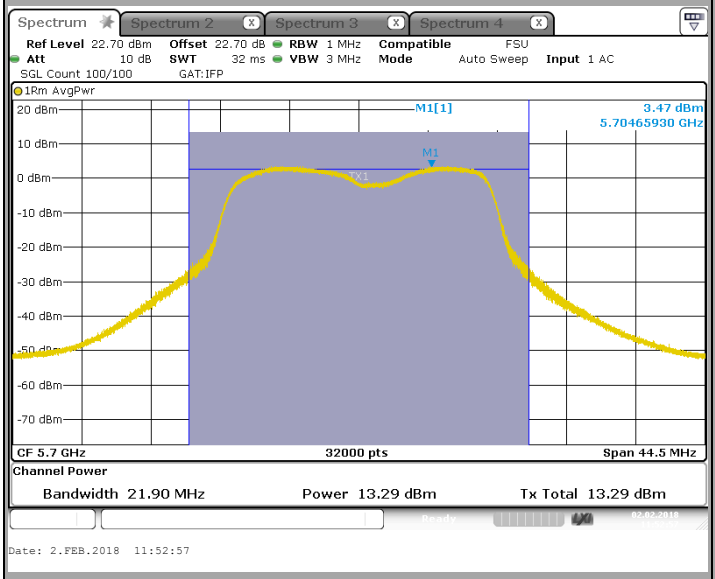
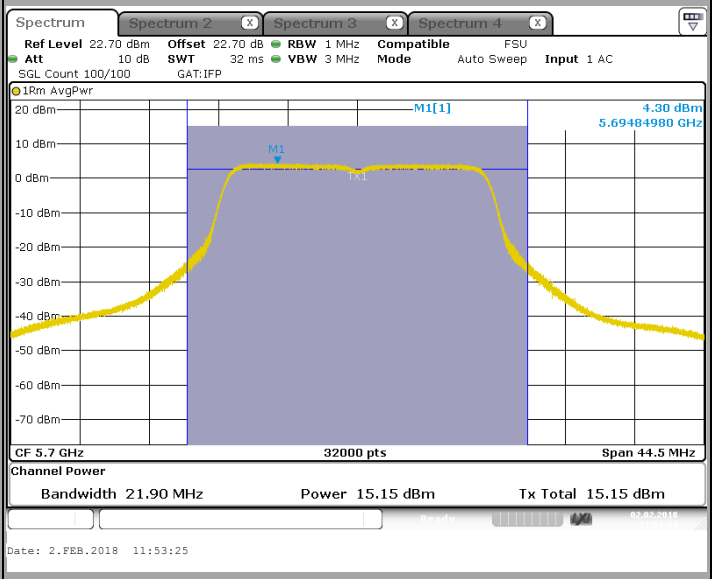
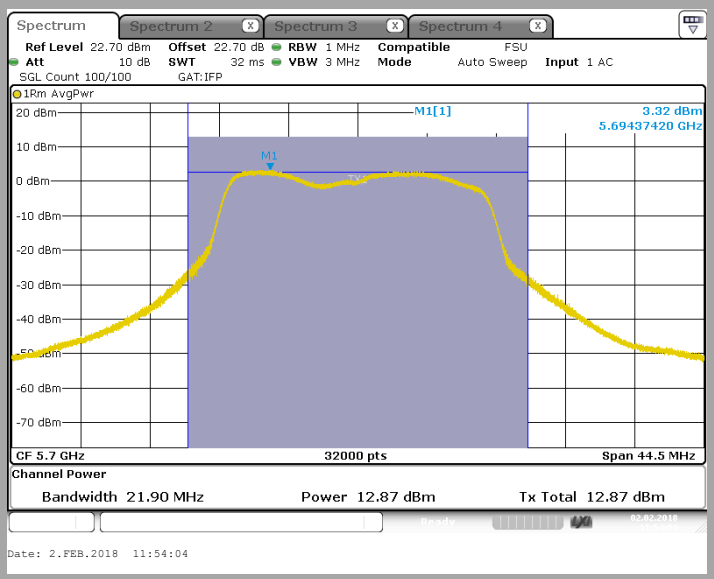
| 802.11a | |
|---|---|
| C4 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

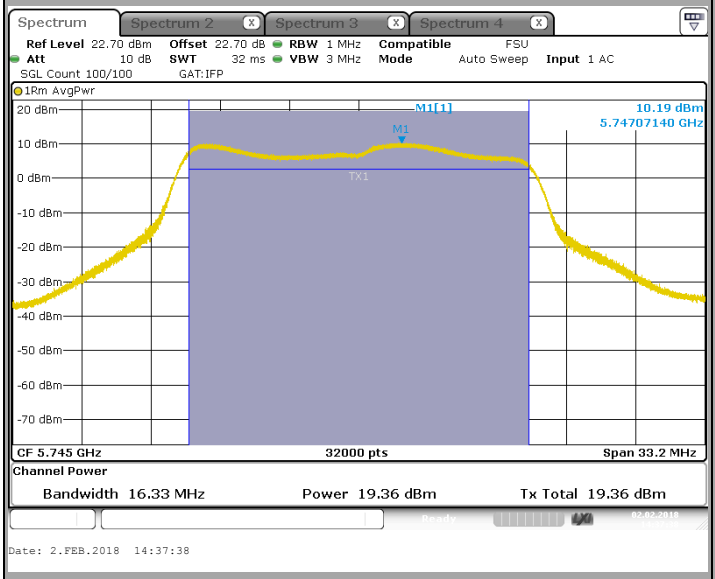
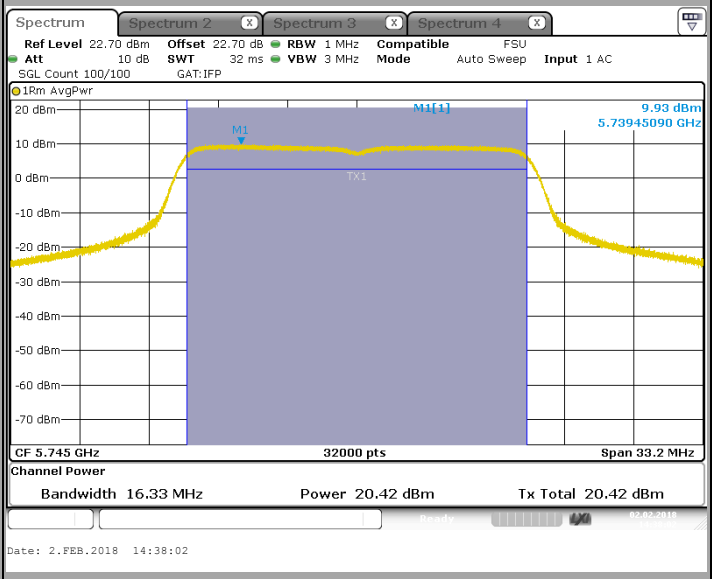
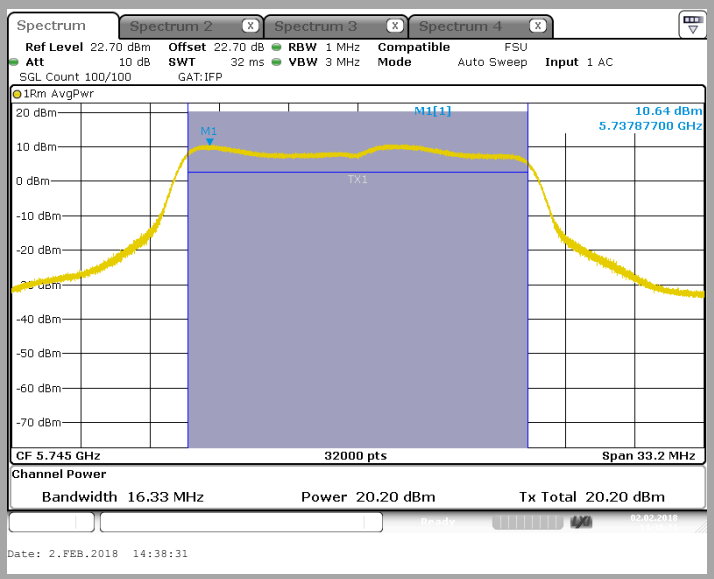
| 802.11a | |
|---|---|
| C5 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

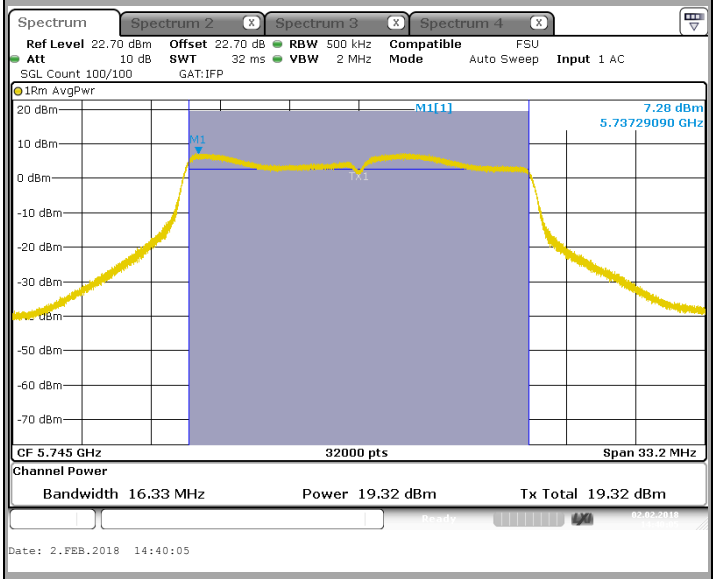
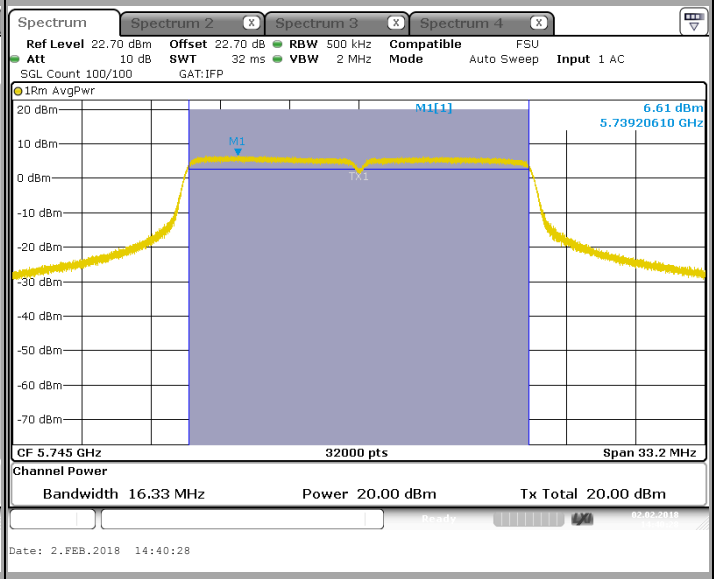
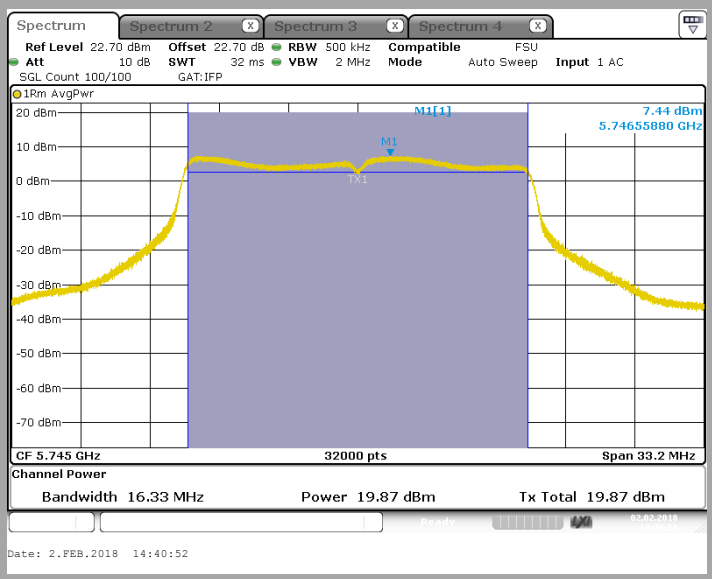
| 802.11a | |
|---|---|
| C6 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

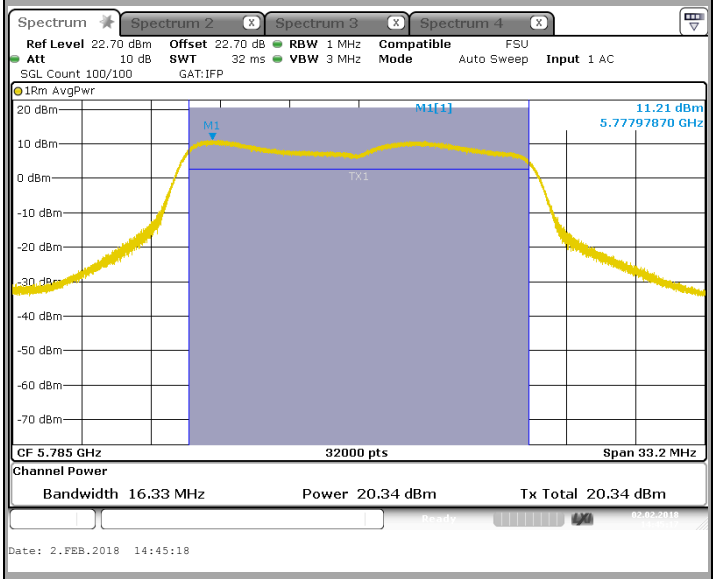
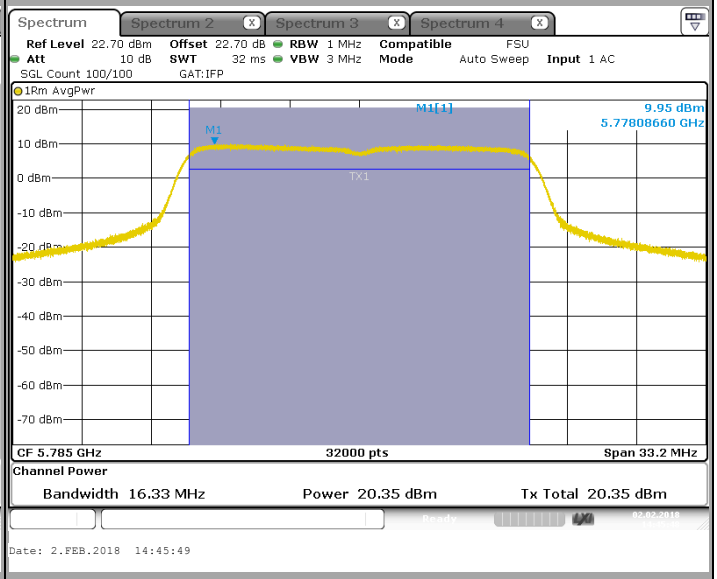
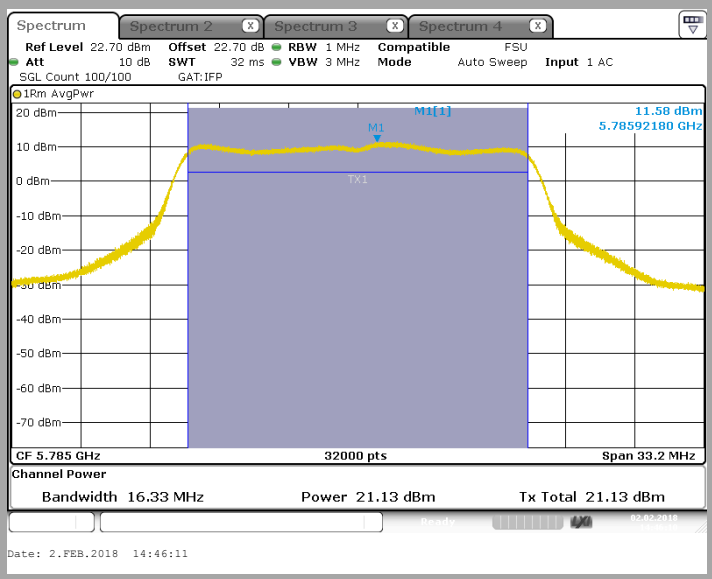
| 802.11a | |
|---|---|
| C7 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

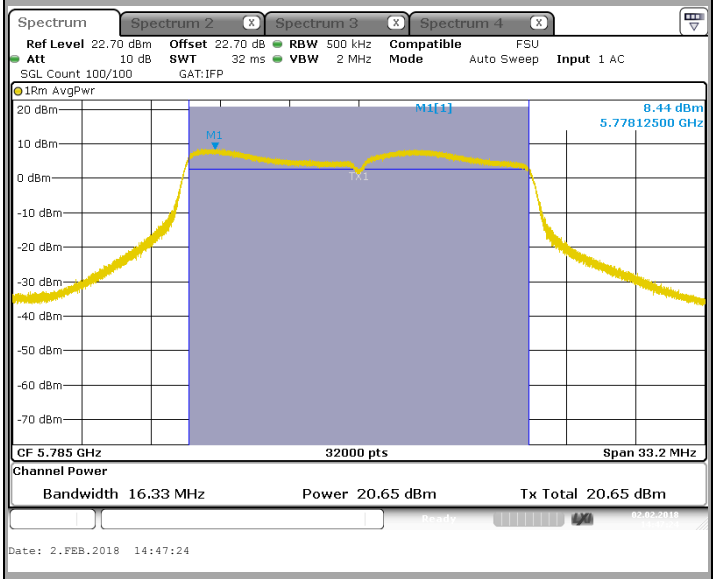
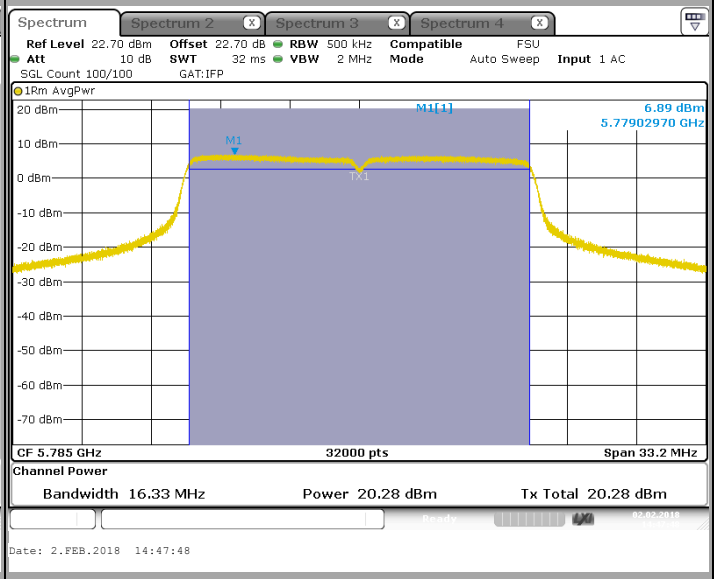
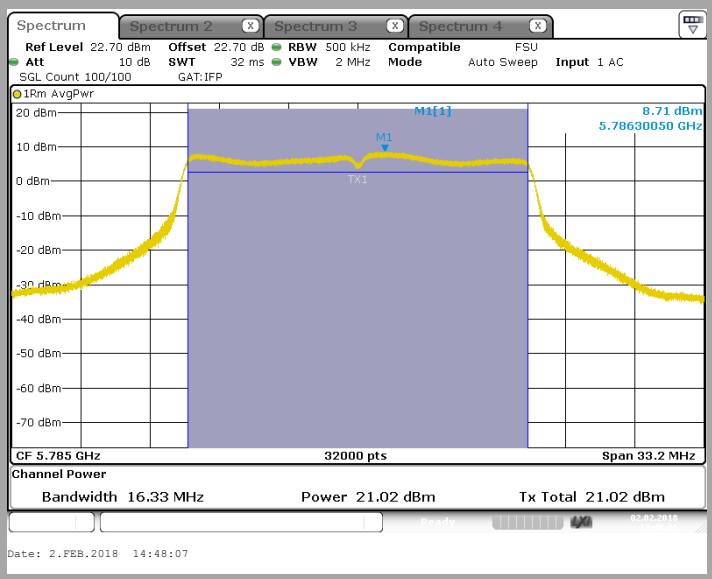
| 802.11a | |
|---|---|
| C8 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

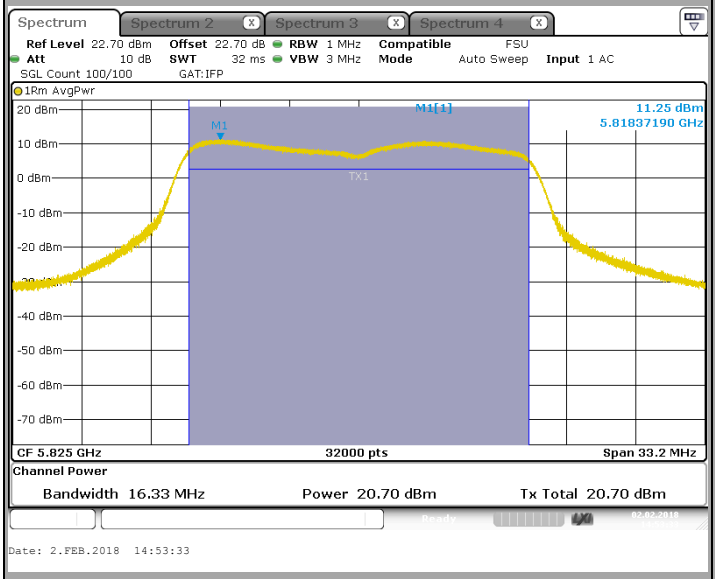
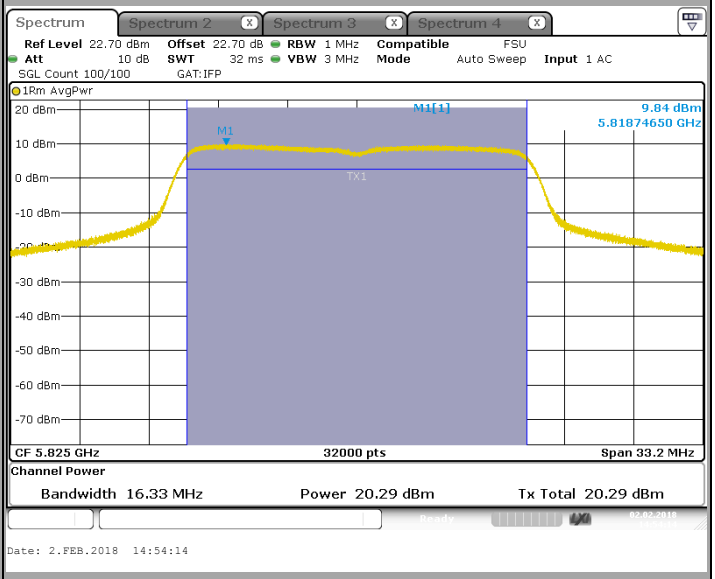
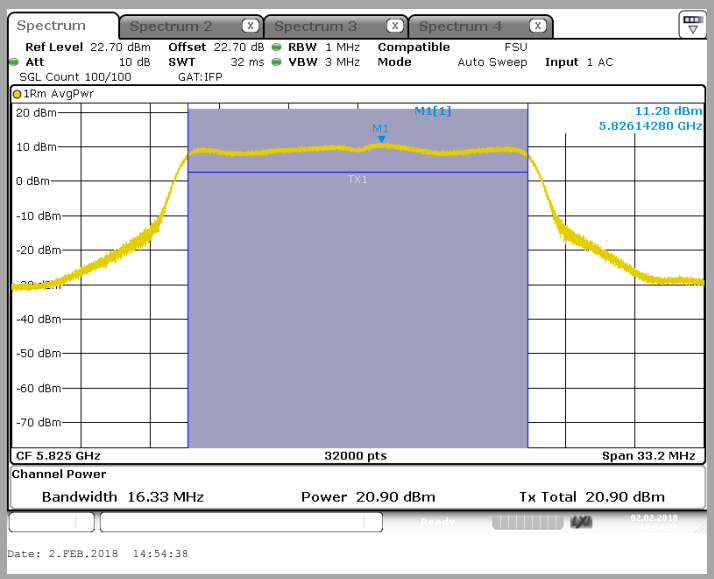
| 802.11a | |
|---|---|
| C9 | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

| 802.11a | |
|---|---|
| C11 (RBW = 1MHz) | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

| 802.11a | |
|---|---|
| C11 (RBW = 500kHz) | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

| 02.11a | |
|---|---|
| C12 (RBW = 1MHz) | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

| 802.11a | |
|---|---|
| C12 (RBW = 500kHz) | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |

| 802.11a | |
|---|---|
| C13 (RBW = 1MHz) | |
| Tx1 | Tx2 |
|  |  |
| Tx3 | |
|  | |