# Appendix A:
# FCC Duty Cycle & PSD test plots UNII 802.11ax WLAN
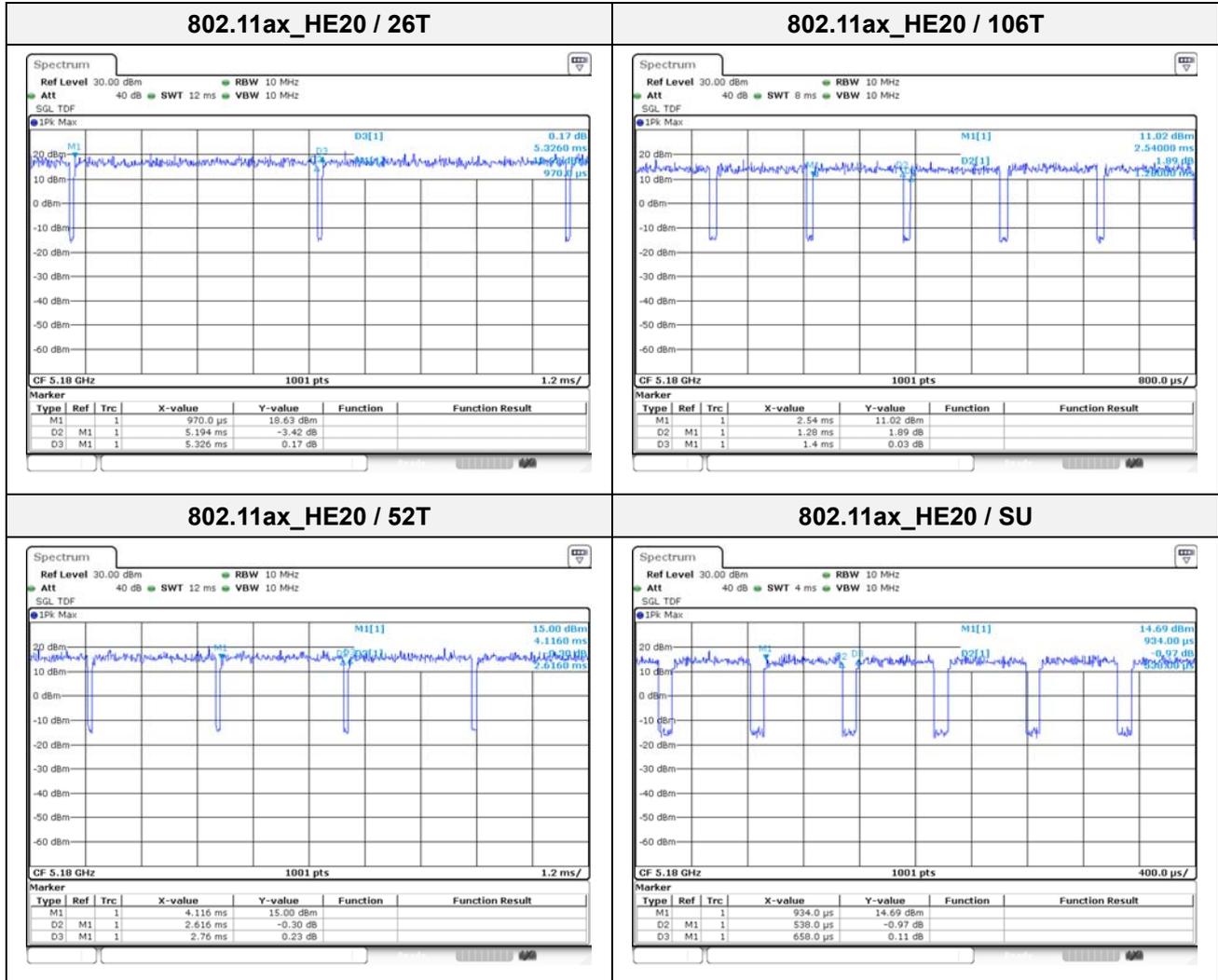
**REPORT REVISION HISTORY**

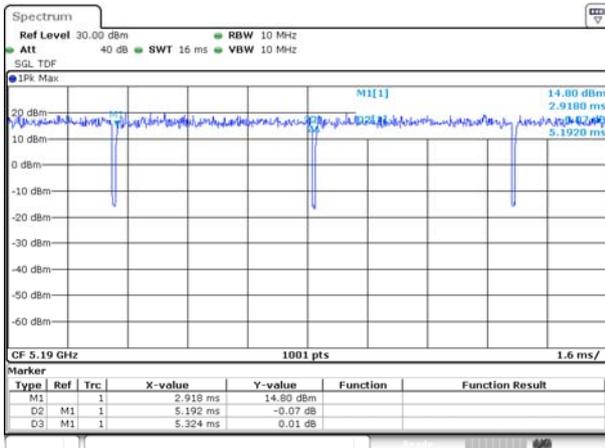| Date | Revision | Page No |
|---|---|---|
| 2020-08-26 | Originally issued | - |
| | | |
| | | |
| | | |
| | | |

**Note:**
In order to simplify the report, attached plots were only the most lowest data rate.

**Duty cycle**
**MIMO**

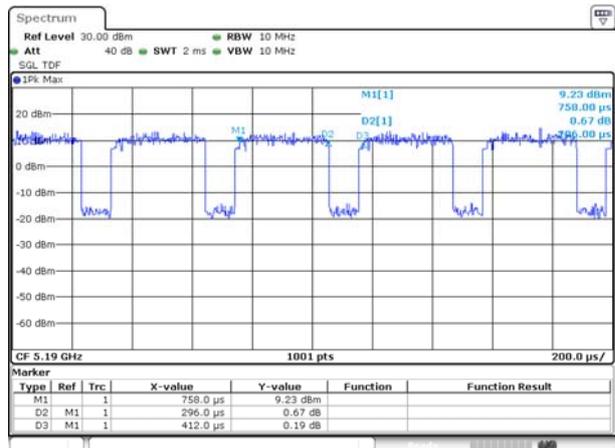| 802.11ax_HE20 / 26T | 802.11ax_HE20 / 106T |
|---|---|
|  |  |

| 802.11ax_HE20 / 52T | 802.11ax_HE20 / SU |
|---|---|
|  |  |

| 802.11ax_HE40 / 26T | 802.11ax_HE40 / 242T |
|---|---|
|  |  |

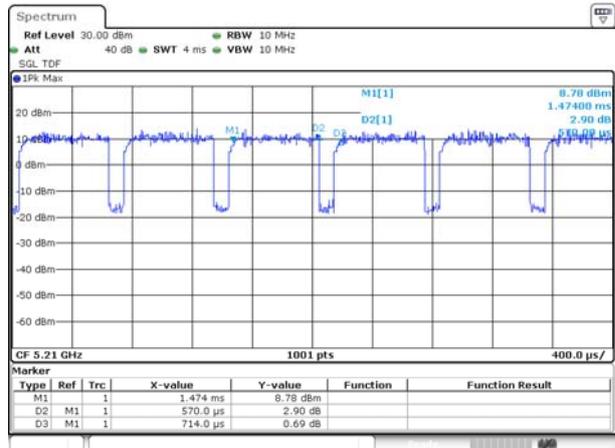| 802.11ax_HE40 / 52T | 802.11ax_HE40 / SU |
|---|---|
|  |  |

| 802.11ax_HE40 / 106T | |
|---|---|
|  | Blank |

| 802.11ax_HE80 / 26T | 802.11ax_HE80 / 242T |
|---|---|
|  |  |

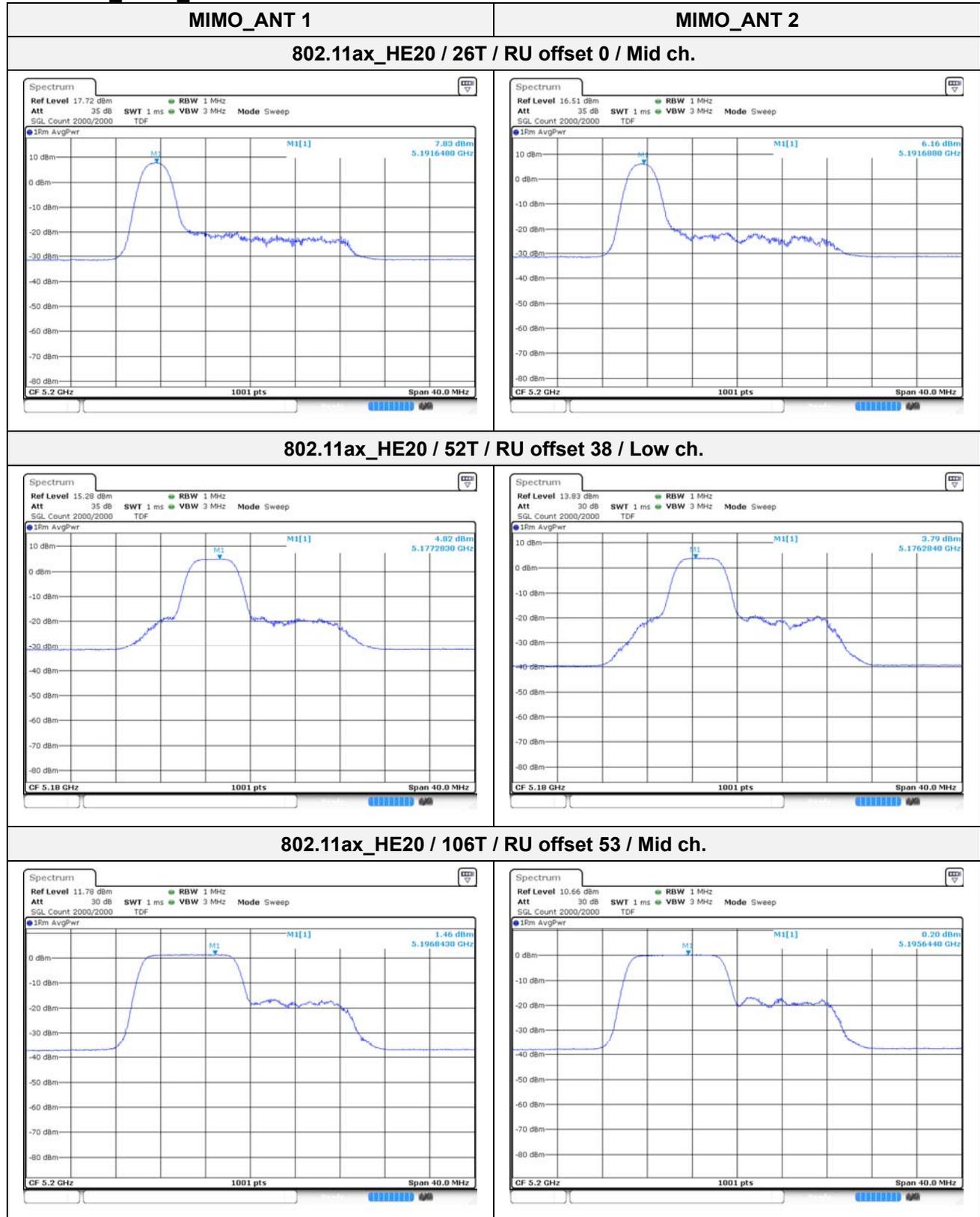| 802.11ax_HE80 / 52T | 802.11ax_HE80 / 484T |
|---|---|
|  |  |

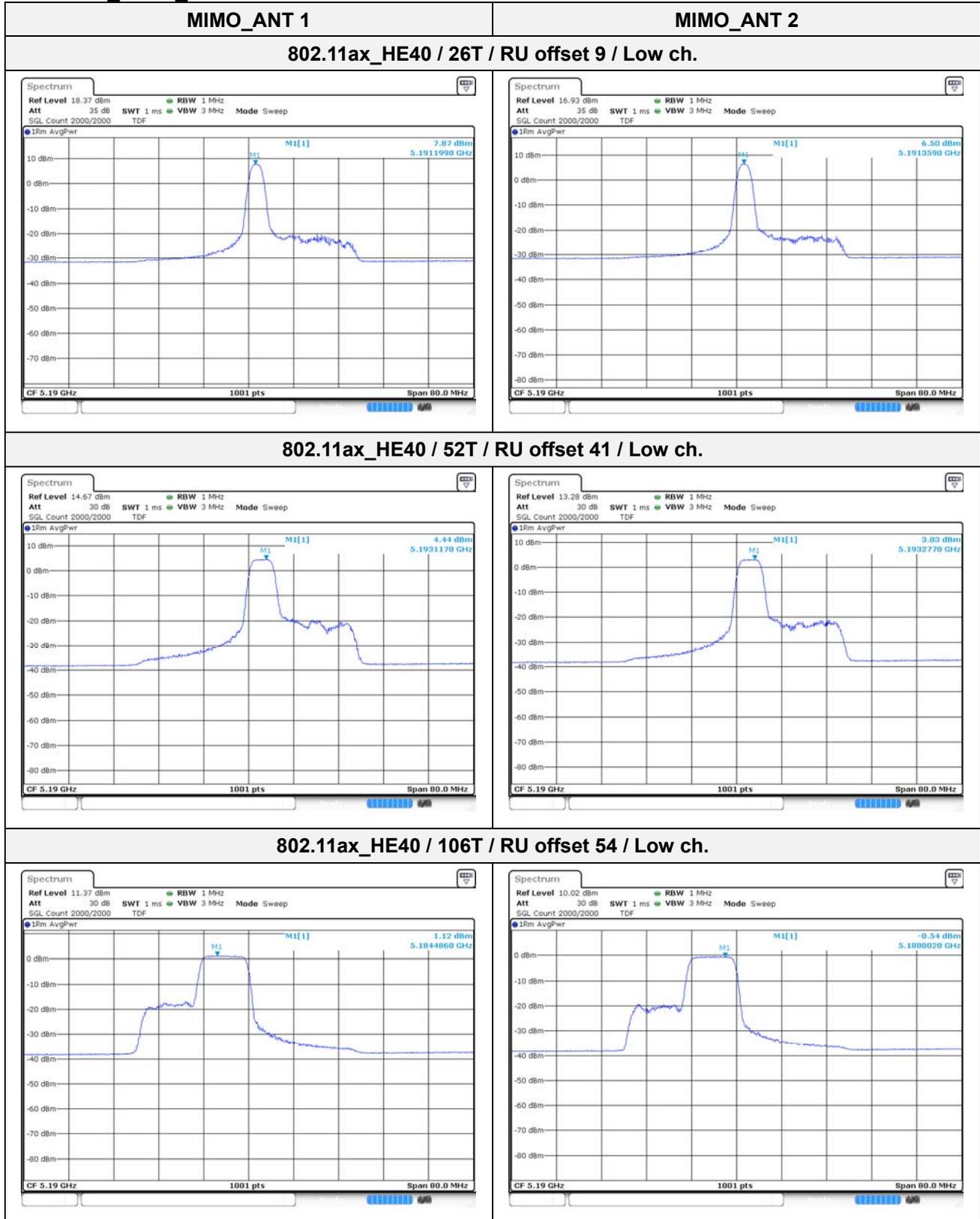| 802.11ax_HE80 / 106T | 802.11ax_HE80 / SU |
|---|---|
|  |  |
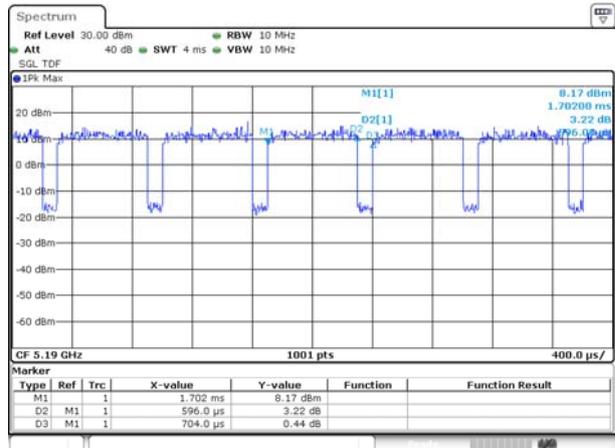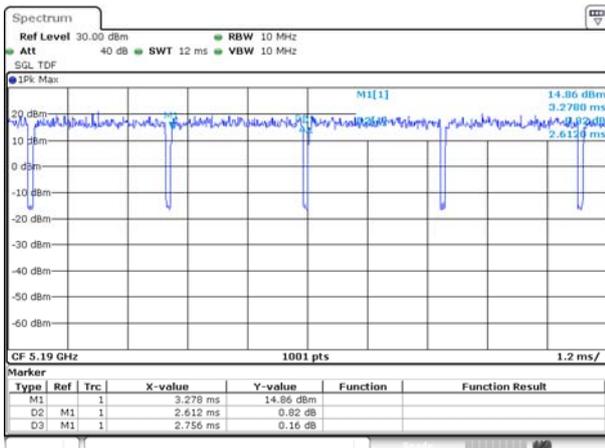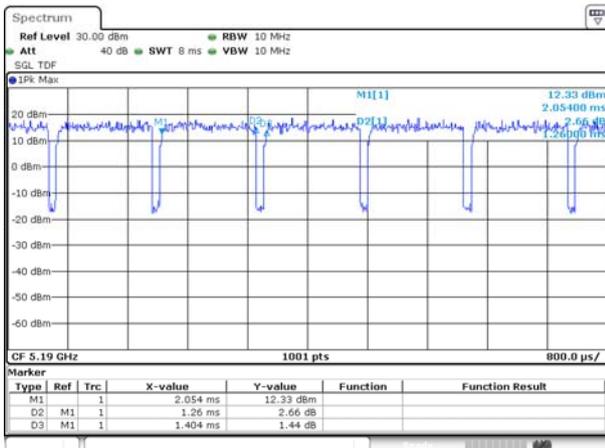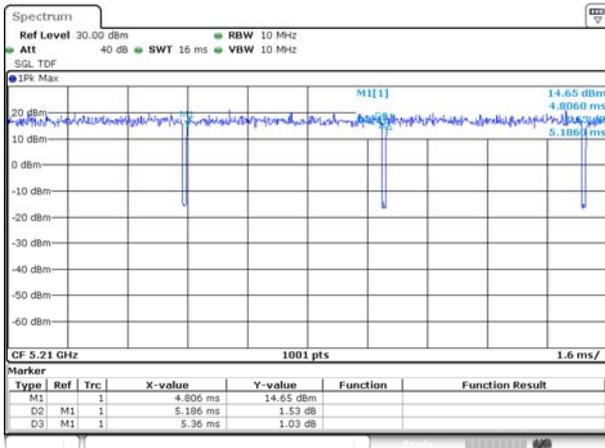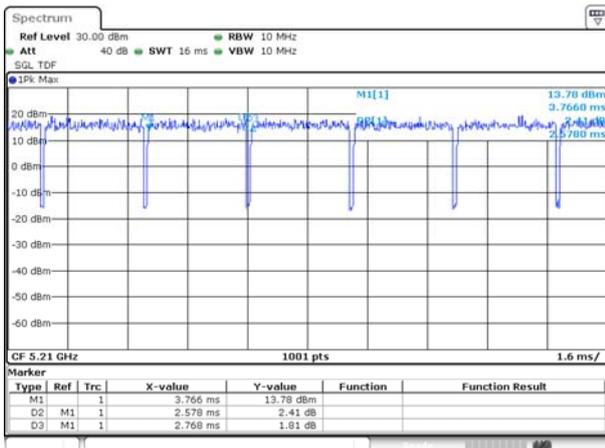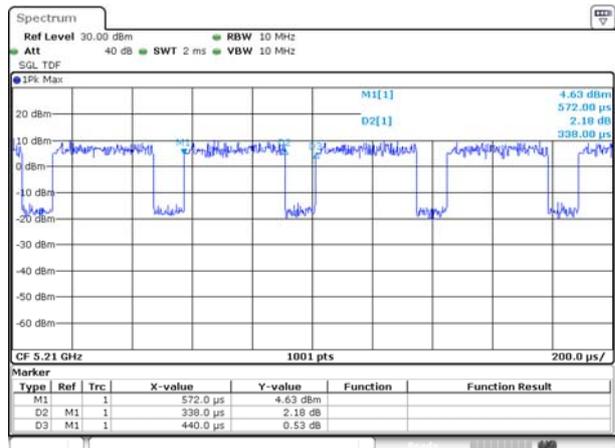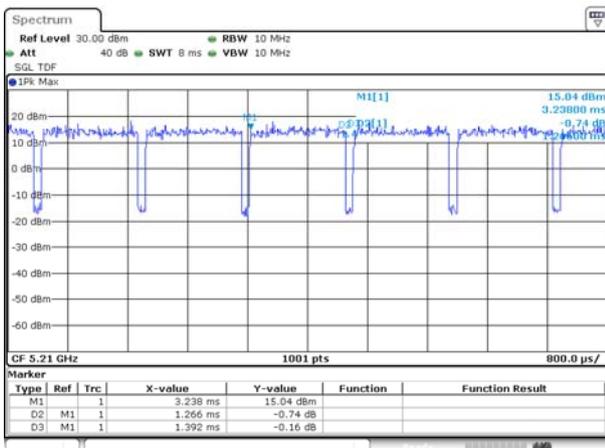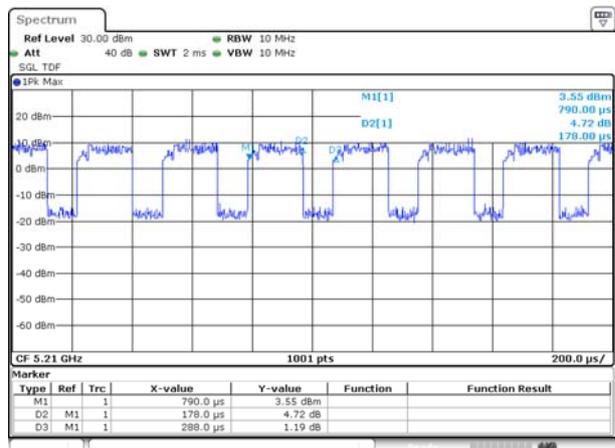
## Maximum power spectral density
**In order to simplify the report, attached plots were only MIMO**
**2Tx MIMO_HE20_UNII-1 Band**

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / 26T / RU offset 0 / Mid ch.** | |
|  |  |
| **802.11ax_HE20 / 52T / RU offset 38 / Low ch.** | |
|  |  |
| **802.11ax_HE20 / 106T / RU offset 53 / Mid ch.** | |
|  |  |

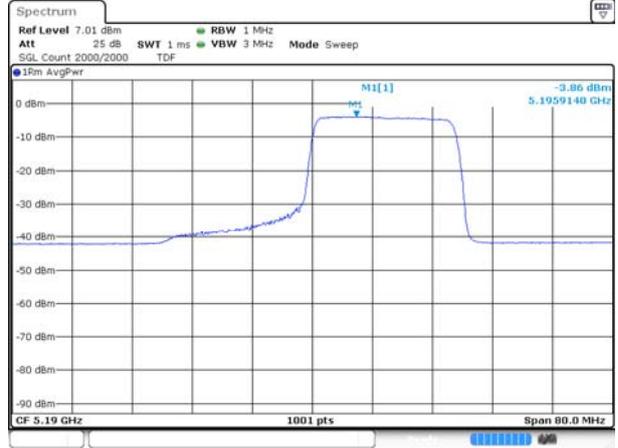| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / SU / High ch.** ||
|  |  |

## 2Tx MIMO_HE40_UNII-1 Band
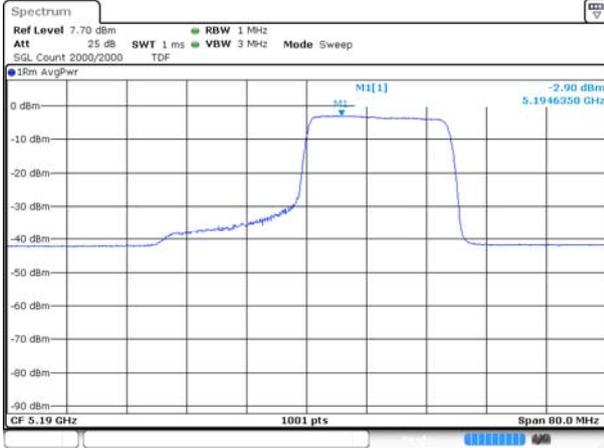
| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 26T / RU offset 9 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 52T / RU offset 41 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 106T / RU offset 54 / Low ch.** | |
|  |  |

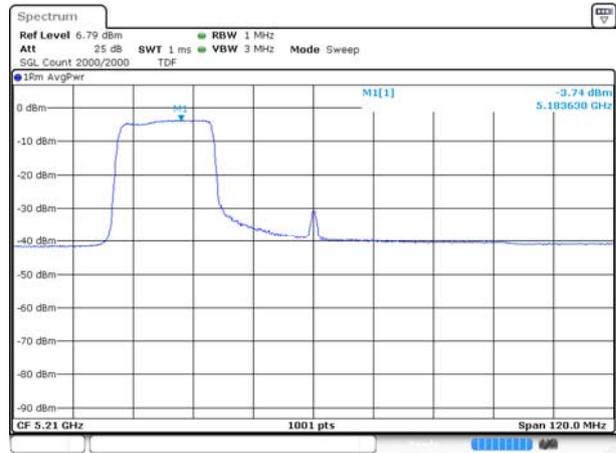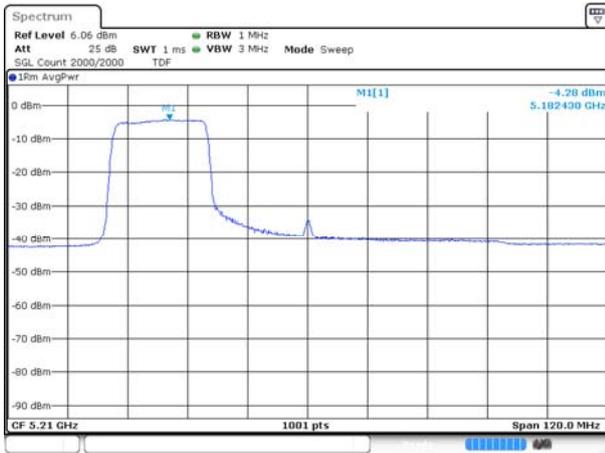| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 242T / RU offset 62 / Low ch.** | |



| **802.11ax_HE40 / SU / Mid ch.** | |
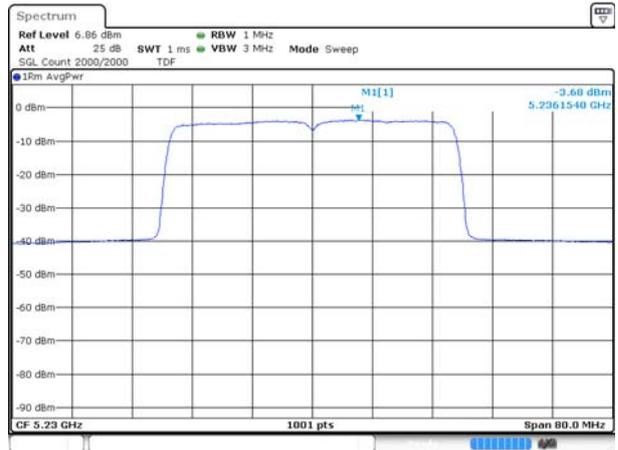
## 2Tx MIMO_HE80_UNII-1 Band
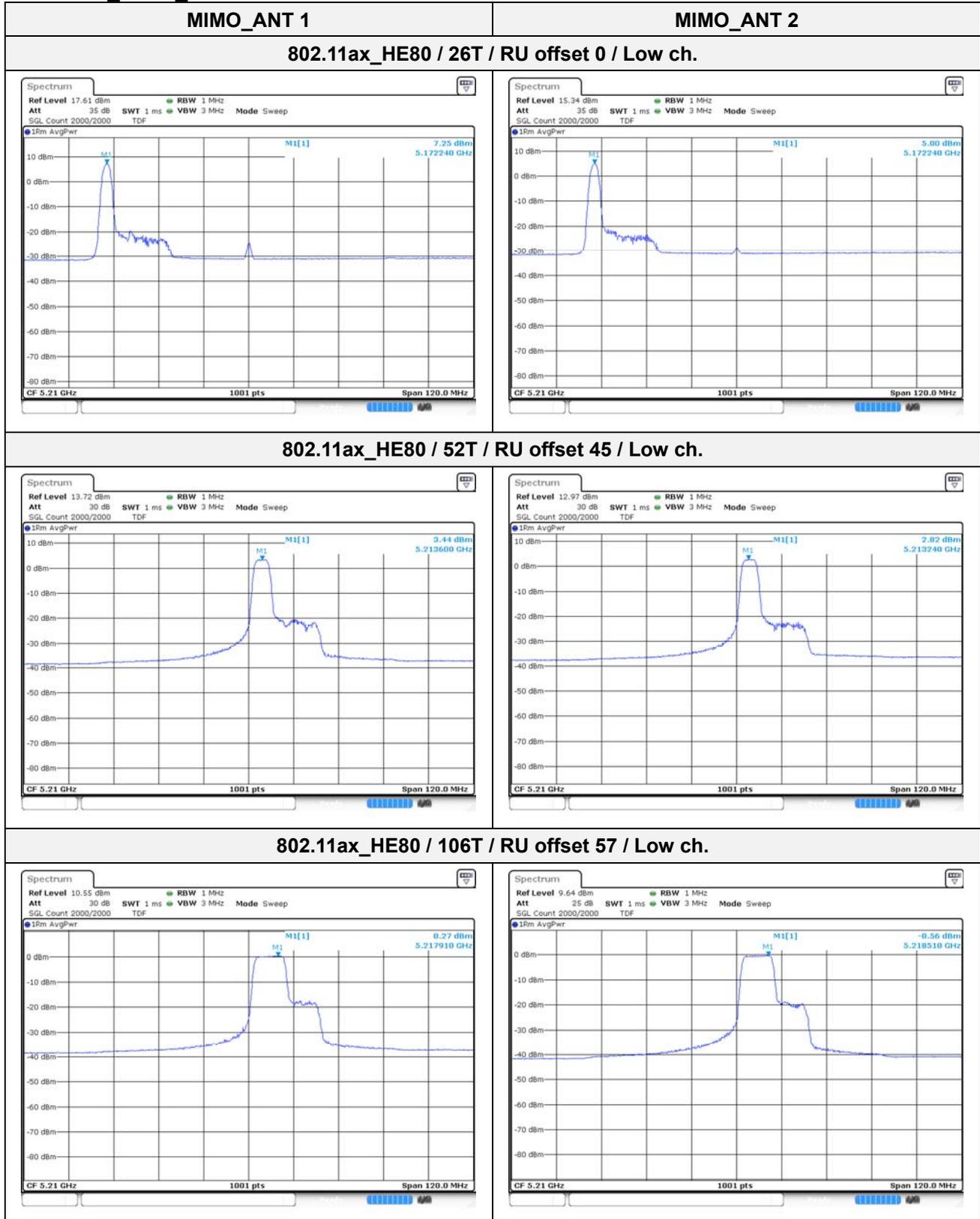
| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE80 / 26T / RU offset 0 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / 52T / RU offset 45 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / 106T / RU offset 57 / Low ch.** | |
|  |  |

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE80 / 242T / RU offset 61 / Low ch.** | |



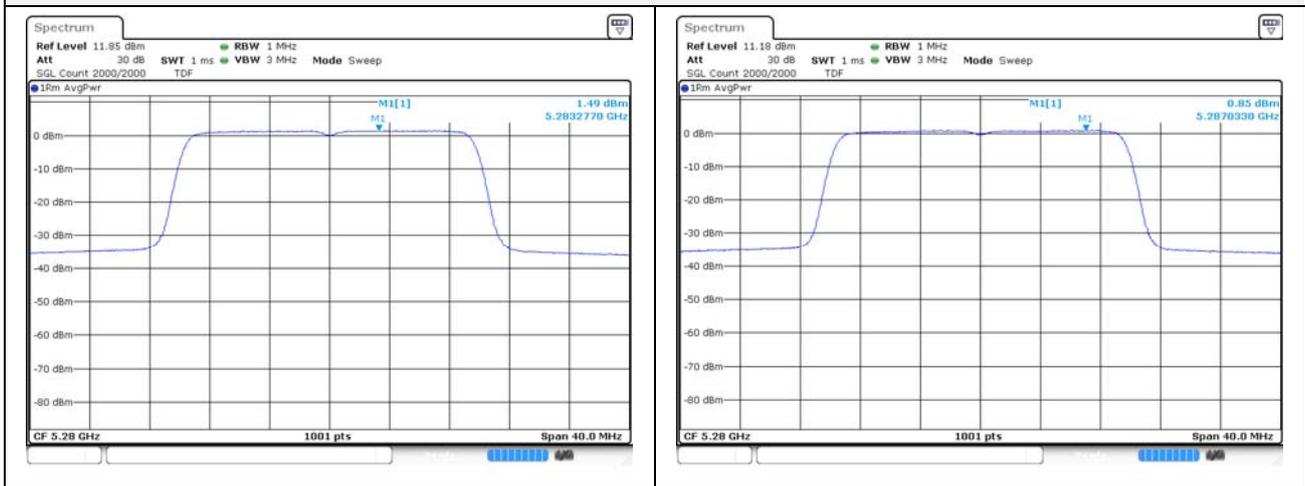| **802.11ax_HE80 / 484T / RU offset 65 / Low ch.** | |



| **802.11ax_HE80 / SU / Low ch.** | |
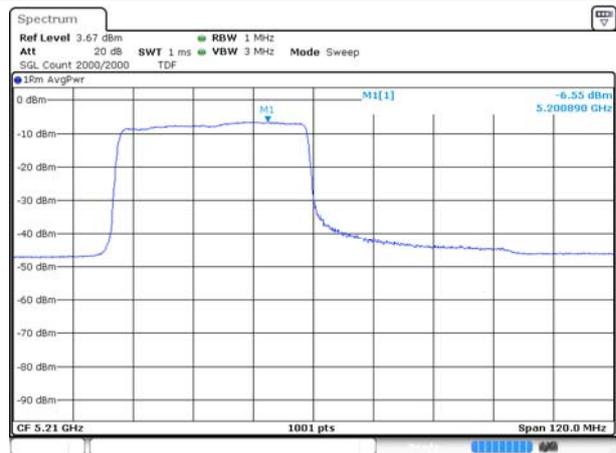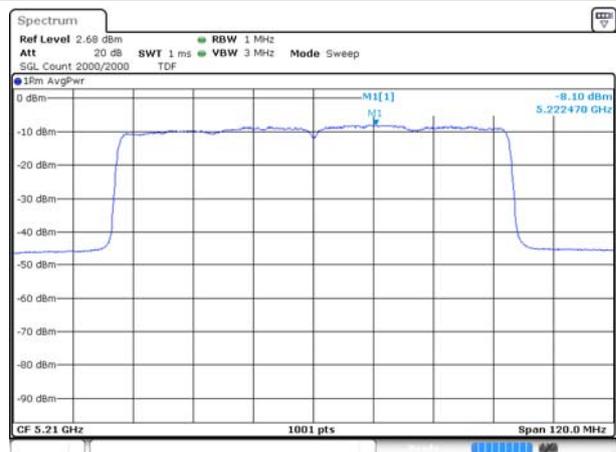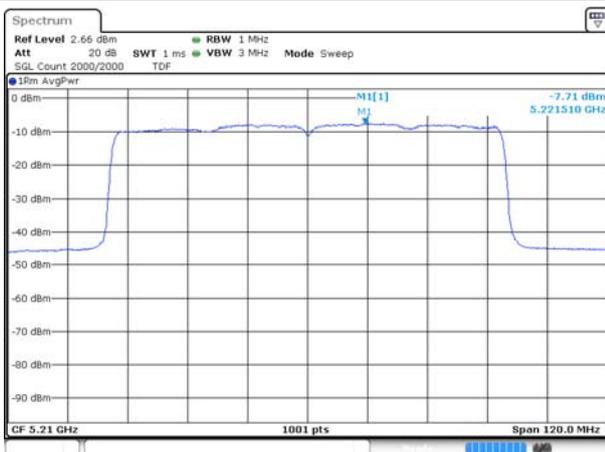
## 2Tx MIMO_HE20_UNII-2A Band
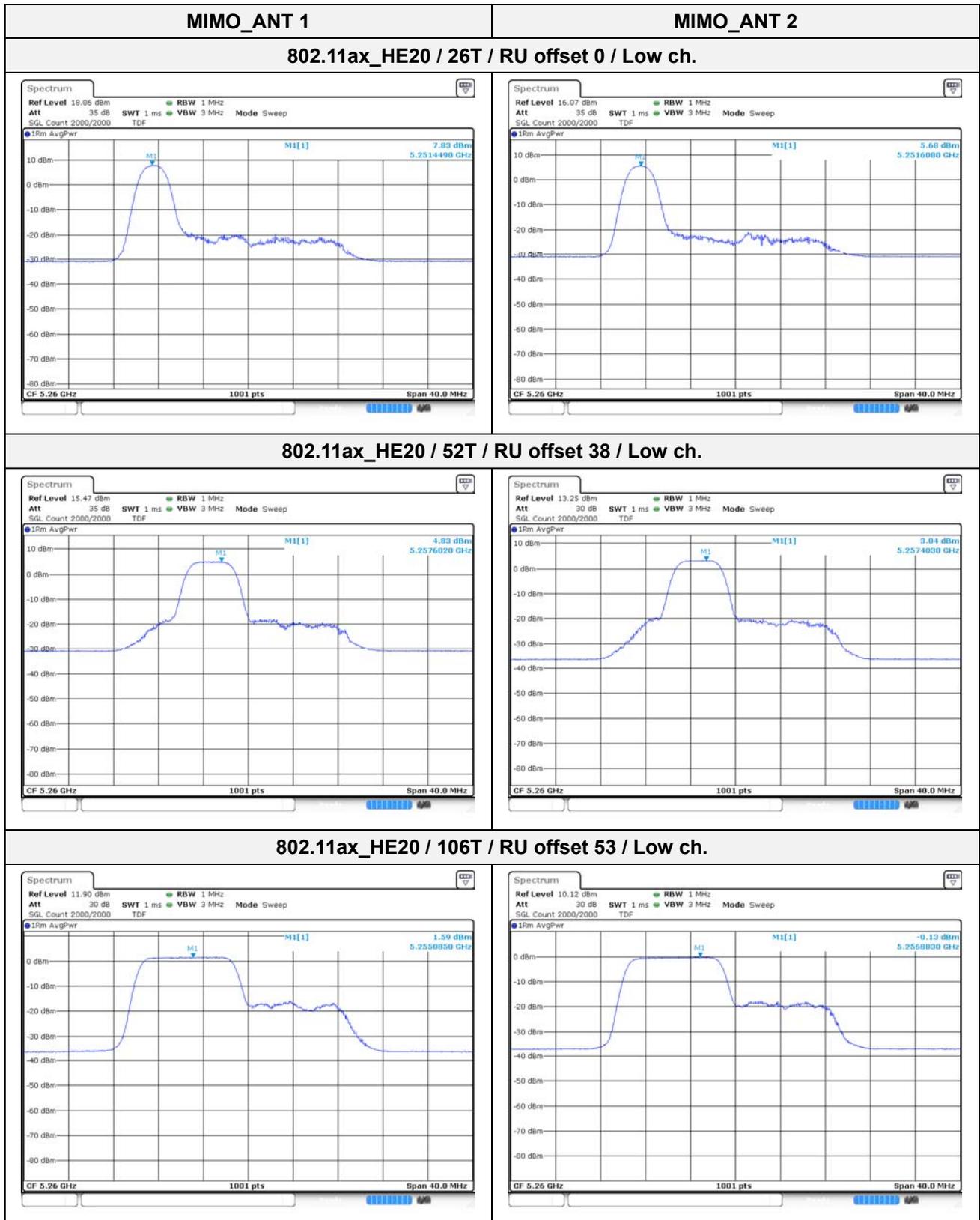
| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| 802.11ax_HE20 / 26T / RU offset 0 / Low ch. | |



| 802.11ax_HE20 / 52T / RU offset 38 / Low ch. | |
|---|---|



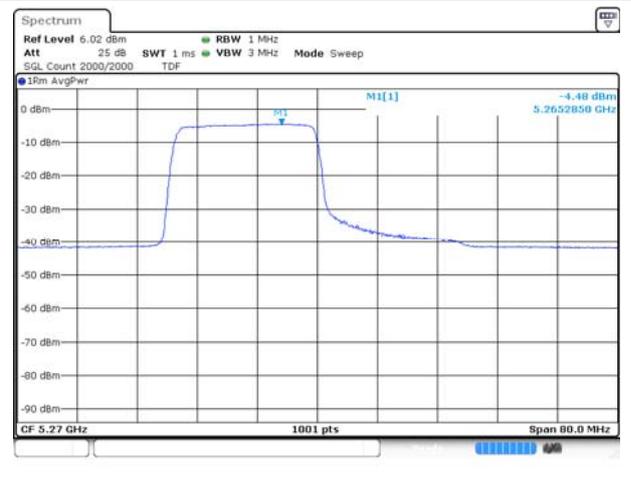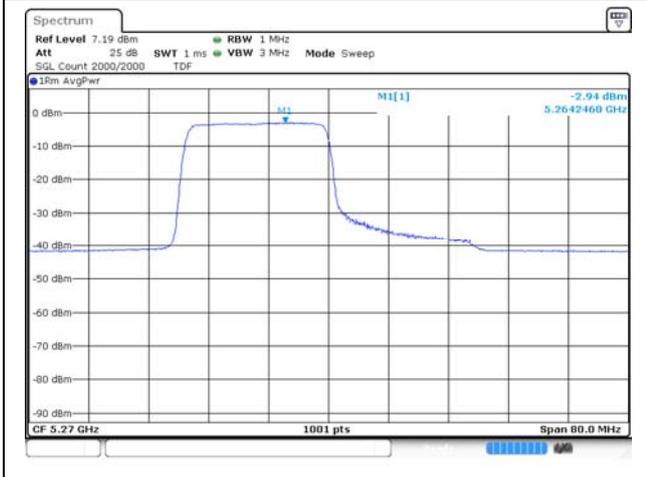| 802.11ax_HE20 / 106T / RU offset 53 / Low ch. | |
|---|---|



| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|

## 802.11ax_HE20 / SU / Mid ch.

**2Tx MIMO_HE40_UNII-2A Band**

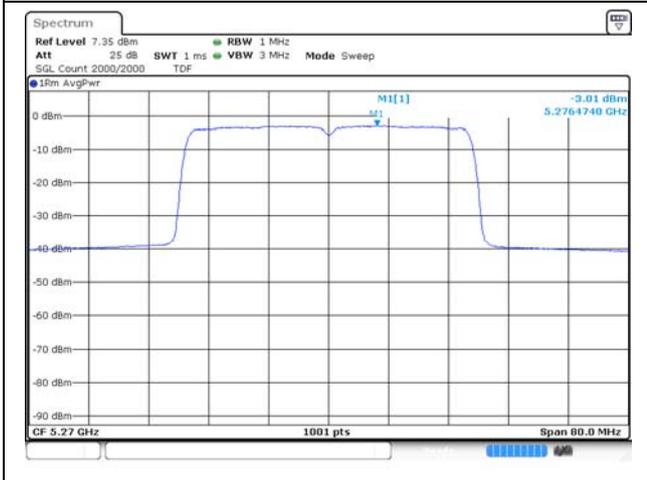| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 26T / RU offset 9 / Low ch.** ||
|  |  |
| **802.11ax_HE40 / 52T / RU offset 41 / Mid ch.** ||
|  |  |
| **802.11ax_HE40 / 106T / RU offset 54 / Low ch.** ||
|  |  |

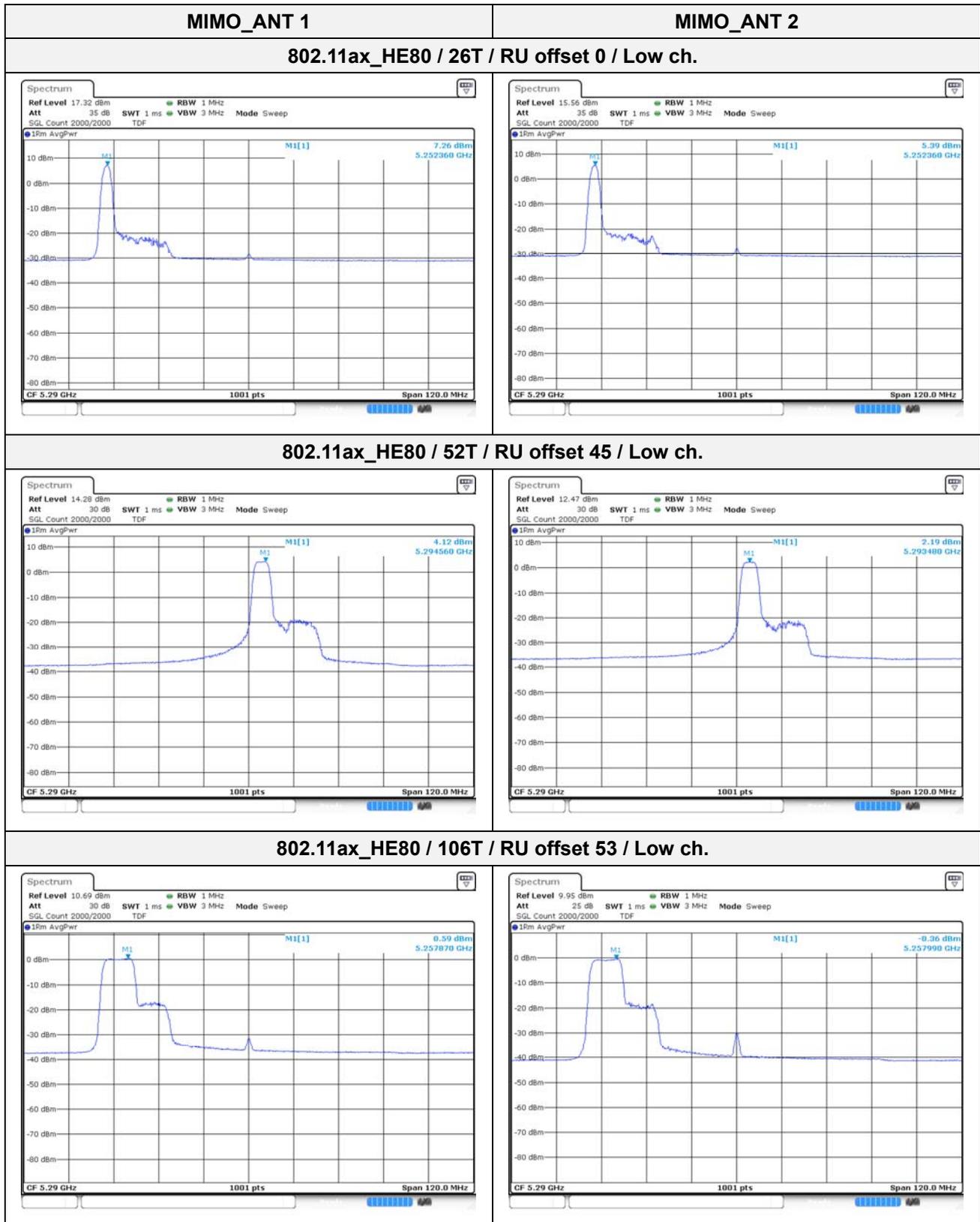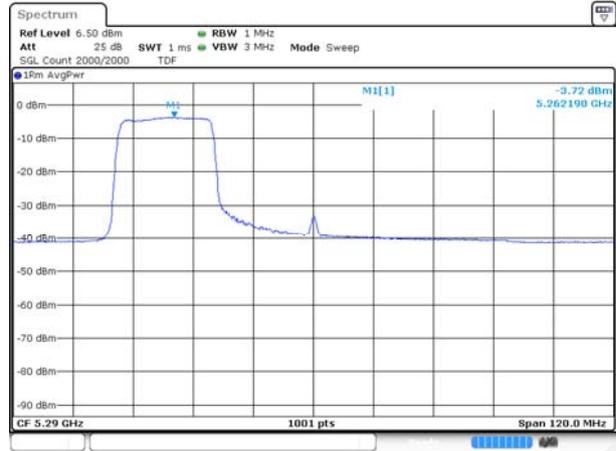| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
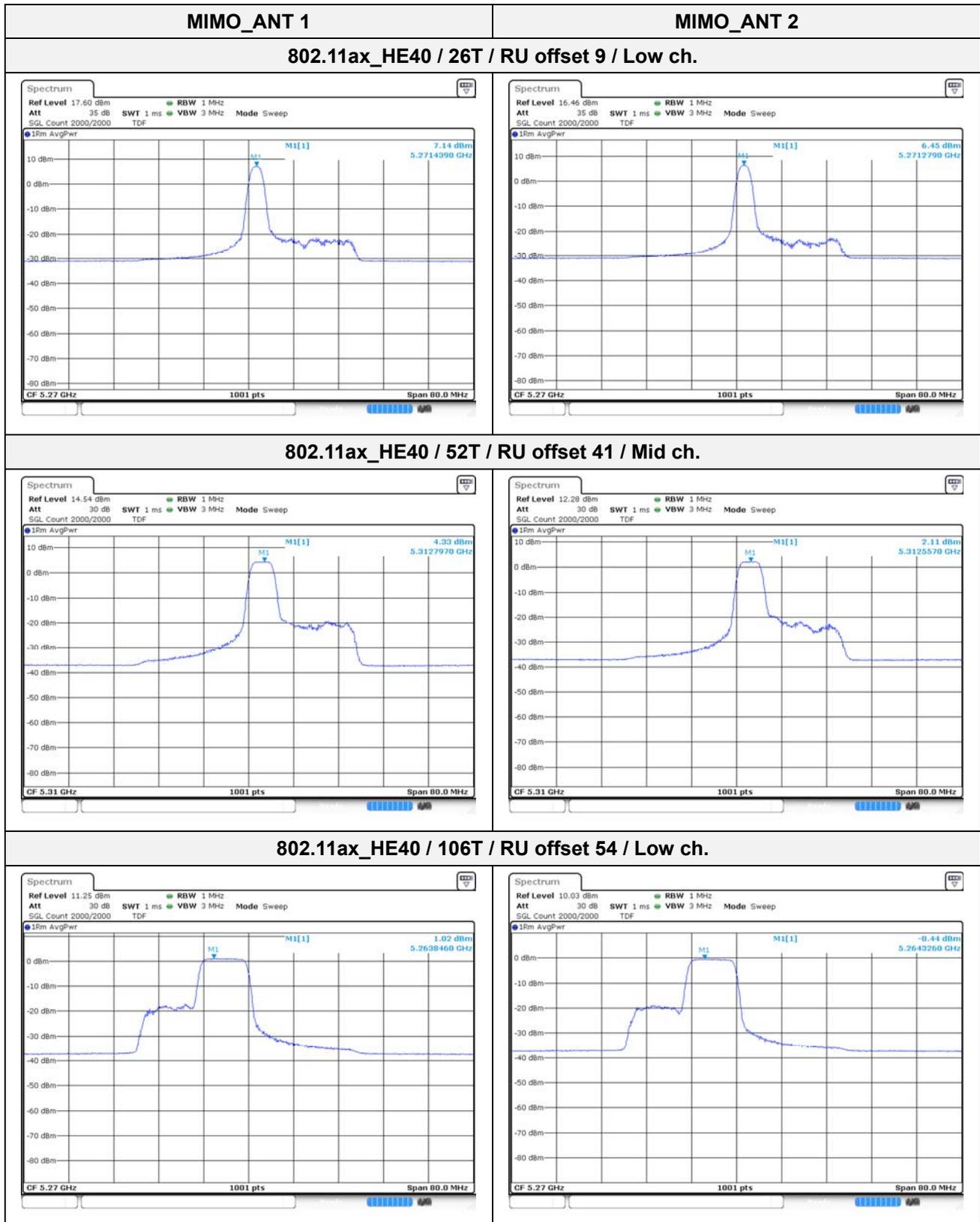
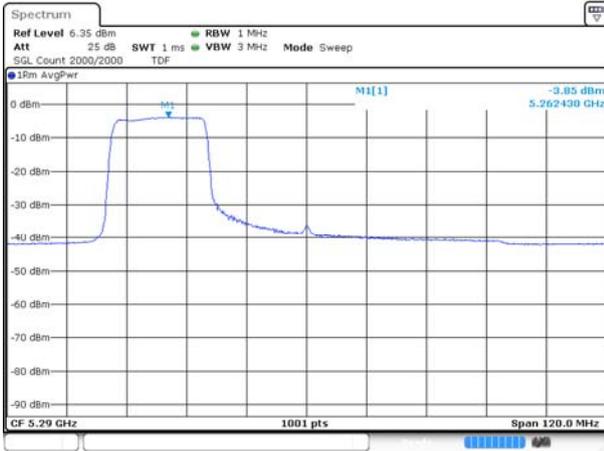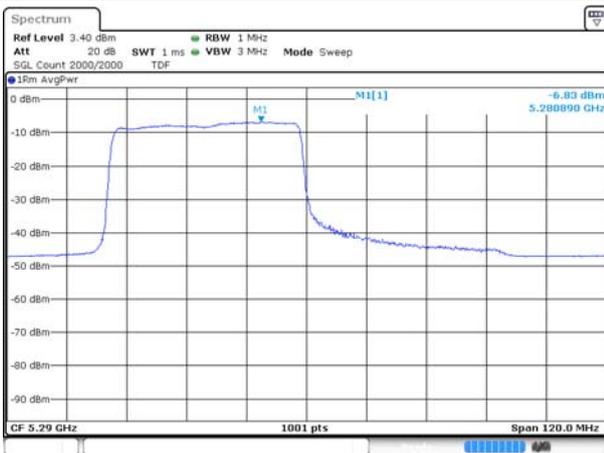**802.11ax_HE40 / 242T / RU offset 61 / Low ch.**





**802.11ax_HE40 / SU / Low ch.**
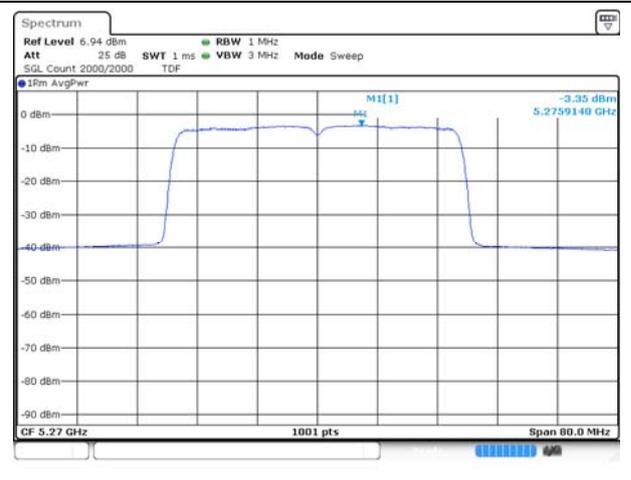
## 2Tx MIMO_HE80_UNII-2A Band

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE80 / 26T / RU offset 0 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / 52T / RU offset 45 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / 106T / RU offset 53 / Low ch.** | |
|  |  |

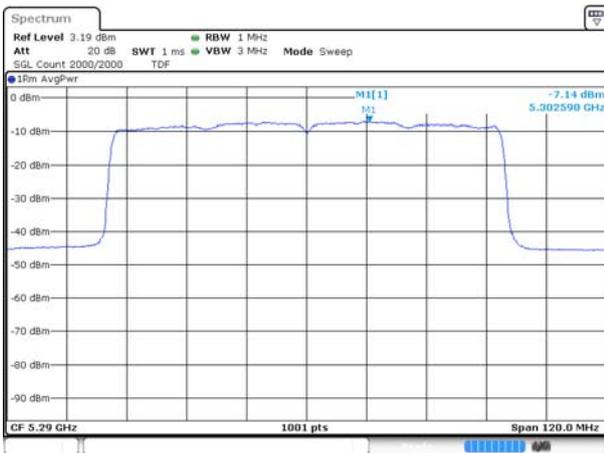| MIMO_ANT 1 | MIMO_ANT 2 |
|:---:|:---:|
| **802.11ax_HE80 / 242T / RU offset 61 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / 484T / RU offset 65 / Low ch.** | |
|  |  |
| **802.11ax_HE80 / SU / Low ch.** | |
|  |  |

## 2Tx MIMO_HE20_UNII-2C Band

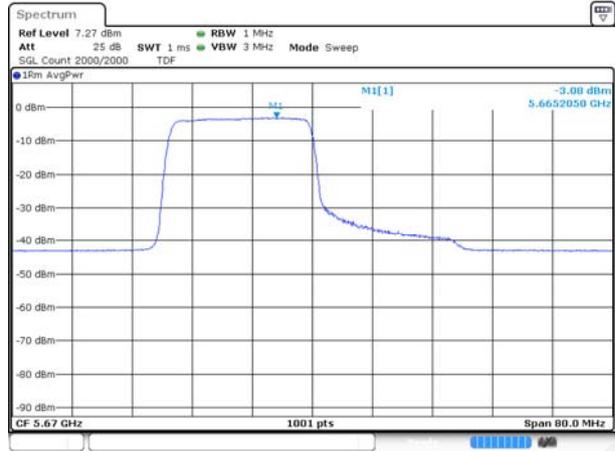| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / 26T / RU offset 0 / High ch.** | |
|  |  |
| **802.11ax_HE20 / 52T / RU offset 37 / Mid ch.** | |
|  |  |
| **802.11ax_HE20 / 106T / RU offset 53 / Mid ch.** | |
|  |  |

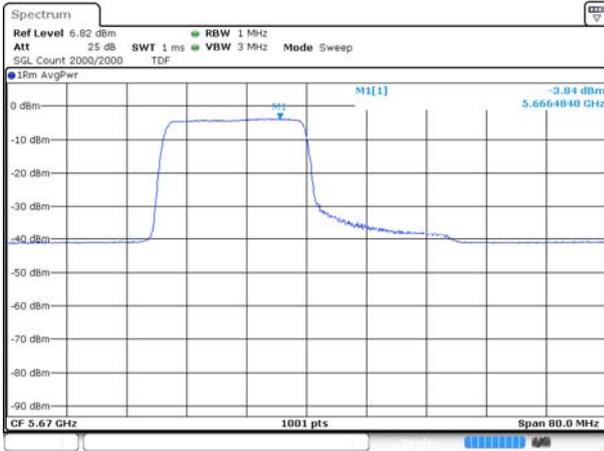| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
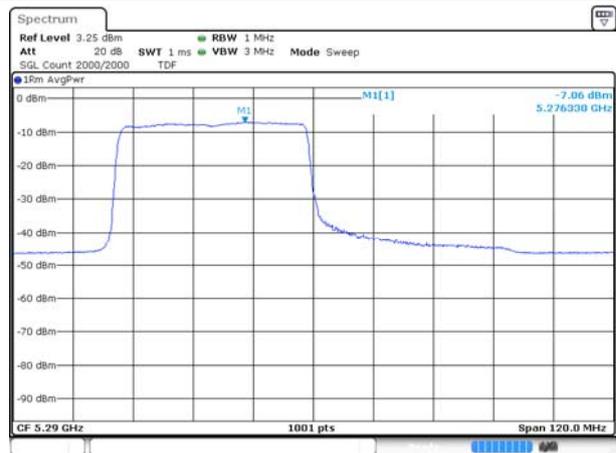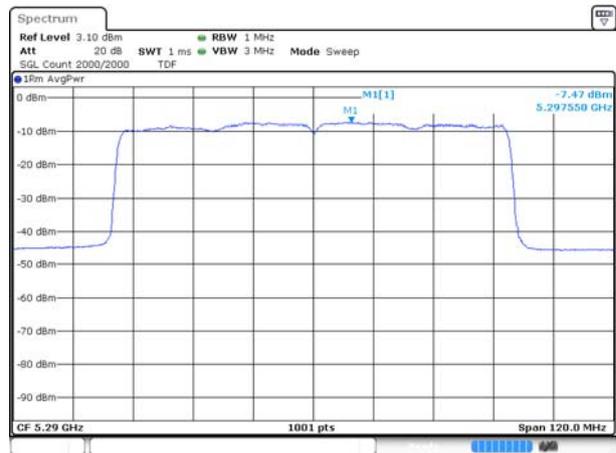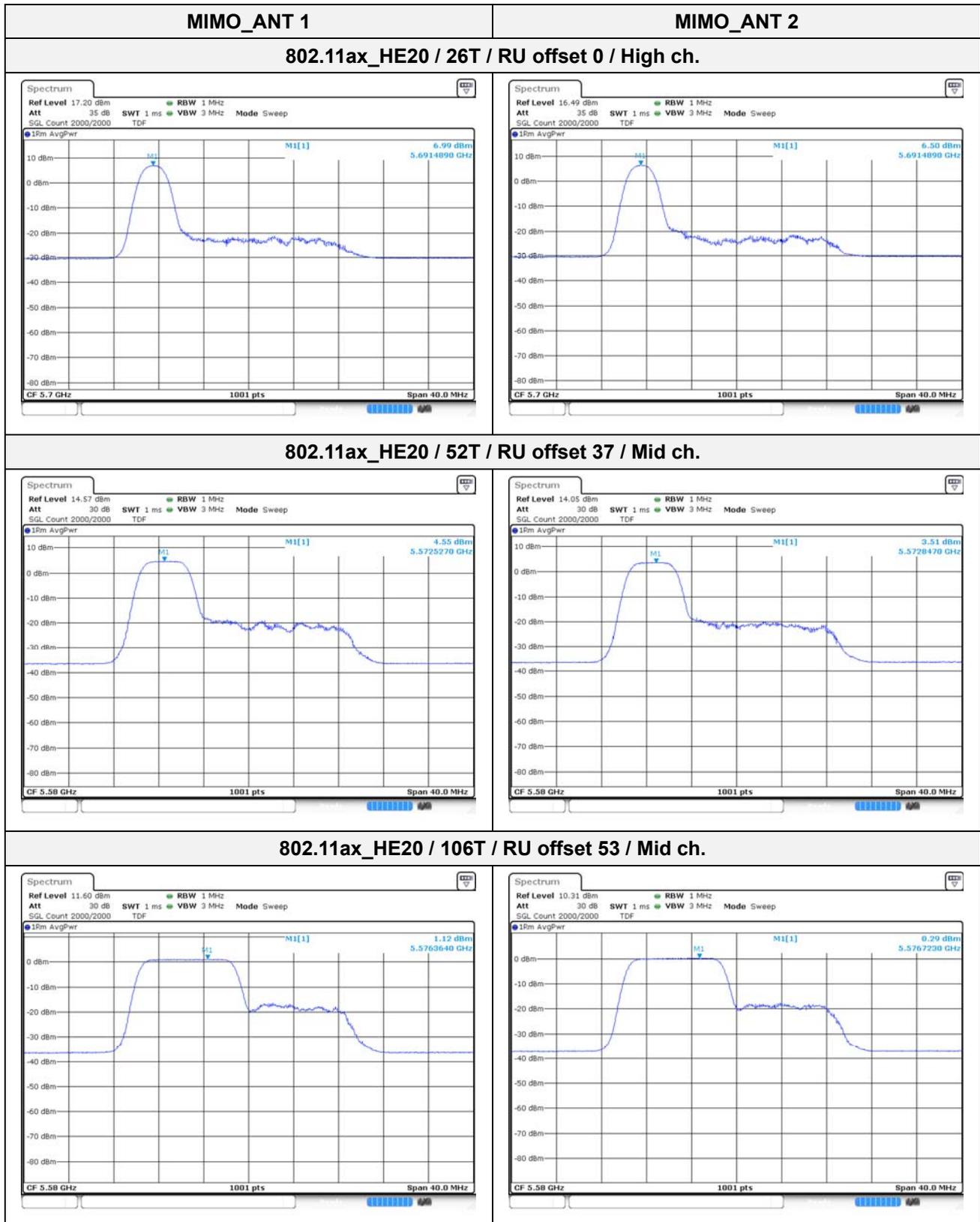
## 802.11ax_HE20 / SU / High ch.
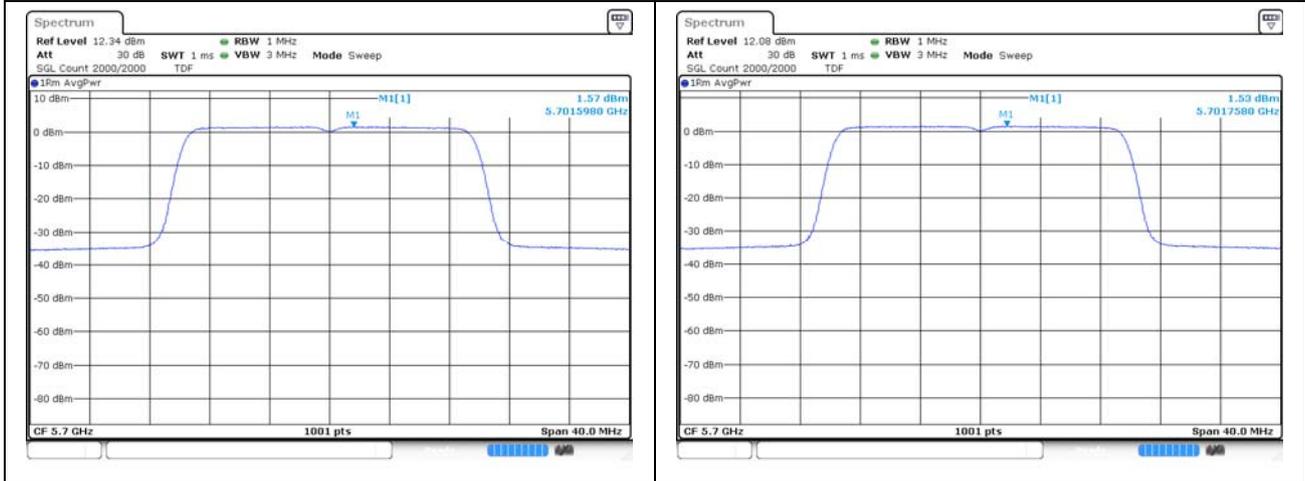
## 2Tx MIMO_HE40_UNII-2C Band
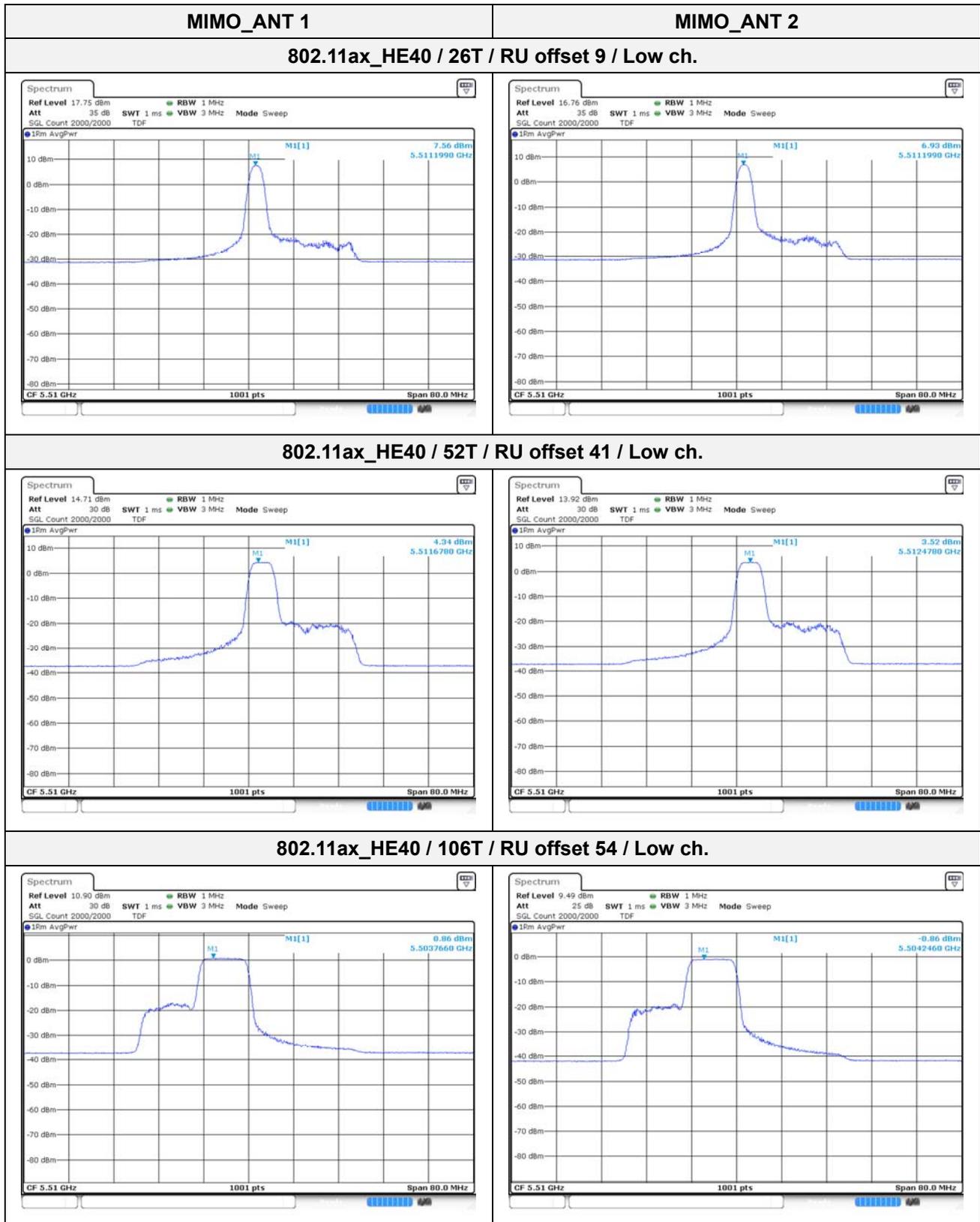
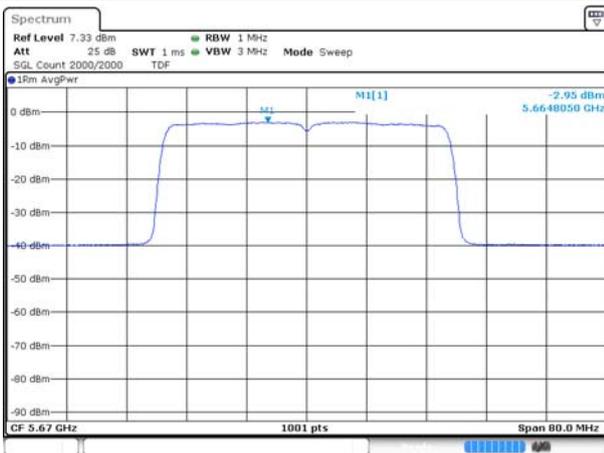| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 26T / RU offset 9 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 52T / RU offset 41 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 106T / RU offset 54 / Low ch.** | |
|  |  |

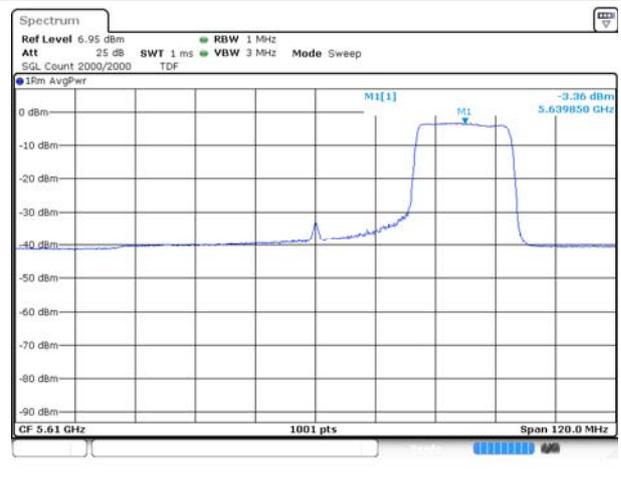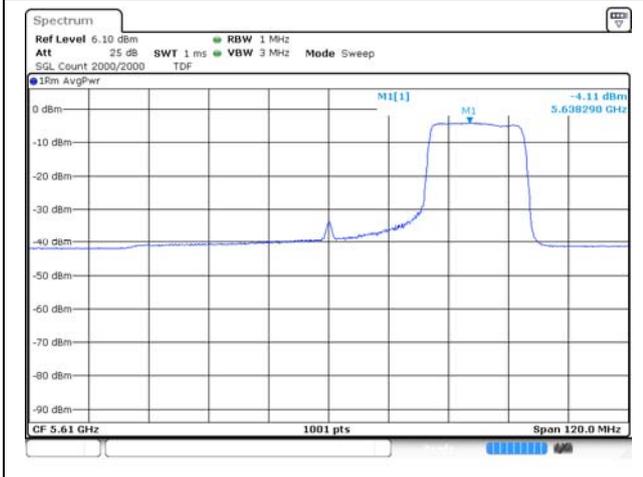| MIMO_ANT 1 | MIMO_ANT 2 |
|:---:|:---:|
| **802.11ax_HE40 / 242T / RU offset 61 / High ch.** ||
|  |  |
| **802.11ax_HE40 / SU / High ch.** ||
|  |  |
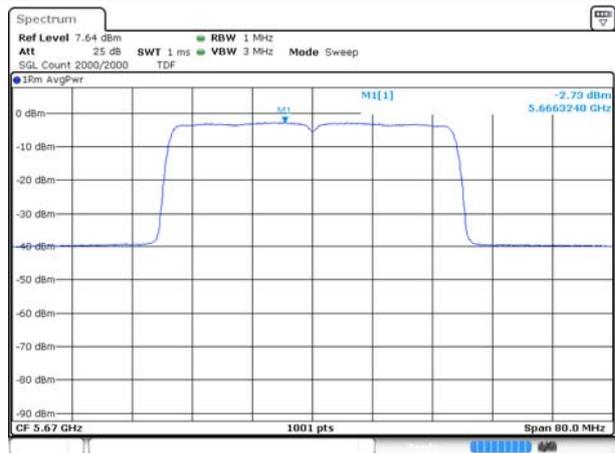
## 2Tx MIMO_HE80_UNII-2C Band

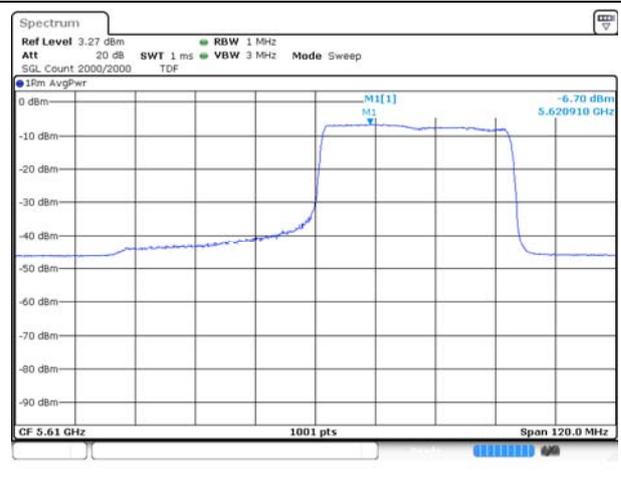| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| 802.11ax_HE80 / 26T / RU offset 0 / High ch. ||
|  |  |
| 802.11ax_HE80 / 52T / RU offset 37 / High ch. ||
|  |  |
| 802.11ax_HE80 / 106T / RU offset 60 / High ch. ||
|  |  |

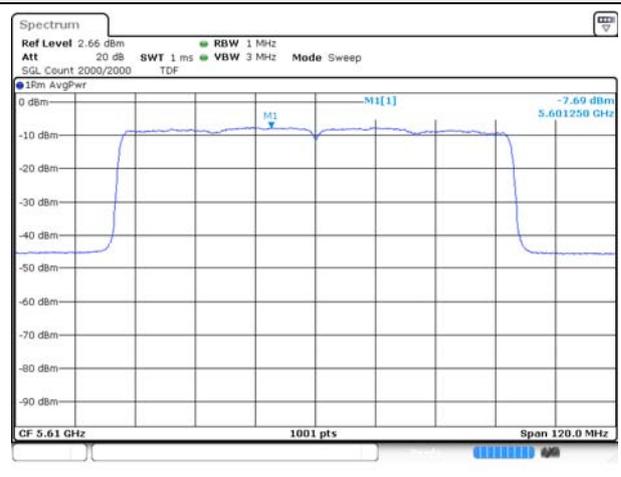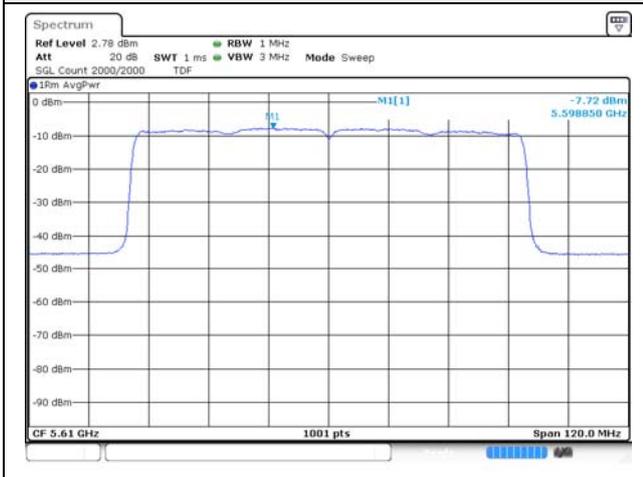| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
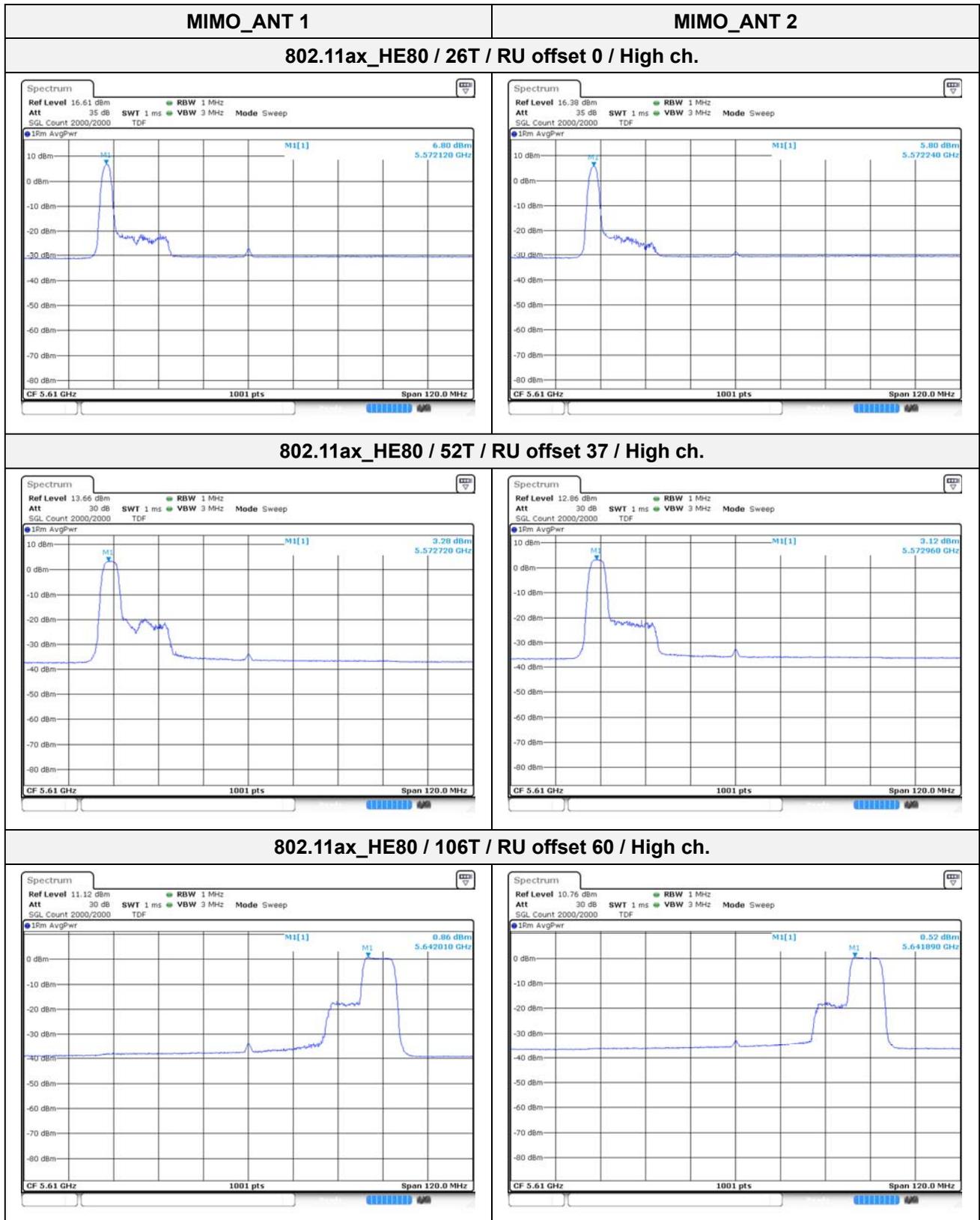
**802.11ax_HE80 / 242T / RU offset 64 / High ch.**



**802.11ax_HE80 / 484T / RU offset 66 / High ch.**



**802.11ax_HE80 / SU / High ch.**



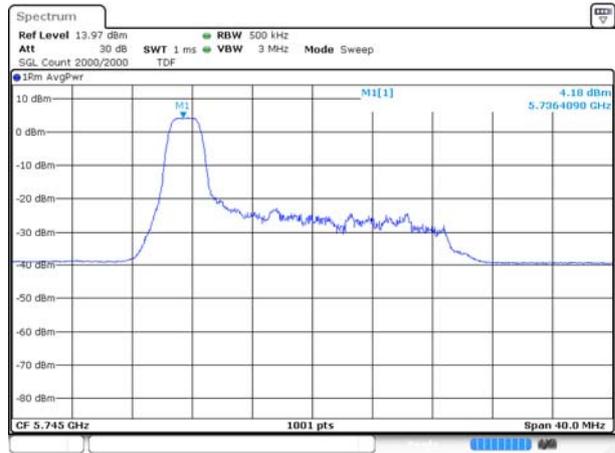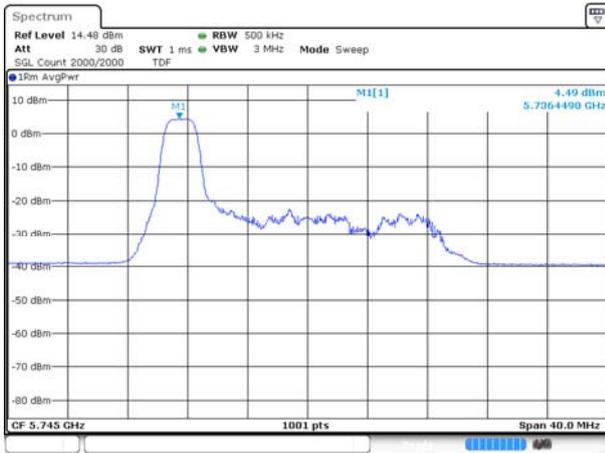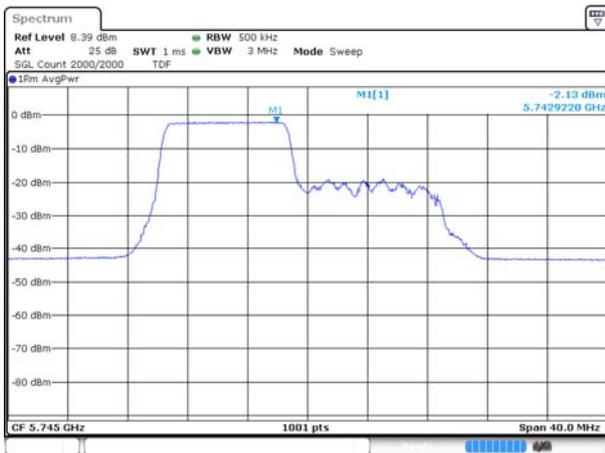**2Tx MIMO_HE20_UNII-3 Band**

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / 26T / RU offset 0 / Low ch.** ||
|  |  |
| **802.11ax_HE20 / 52T / RU offset 37 / Mid ch.** ||
|  |  |
| **802.11ax_HE20 / 106T / RU offset 53 / Low ch.** ||
|  |  |

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / SU / Low ch.** | |
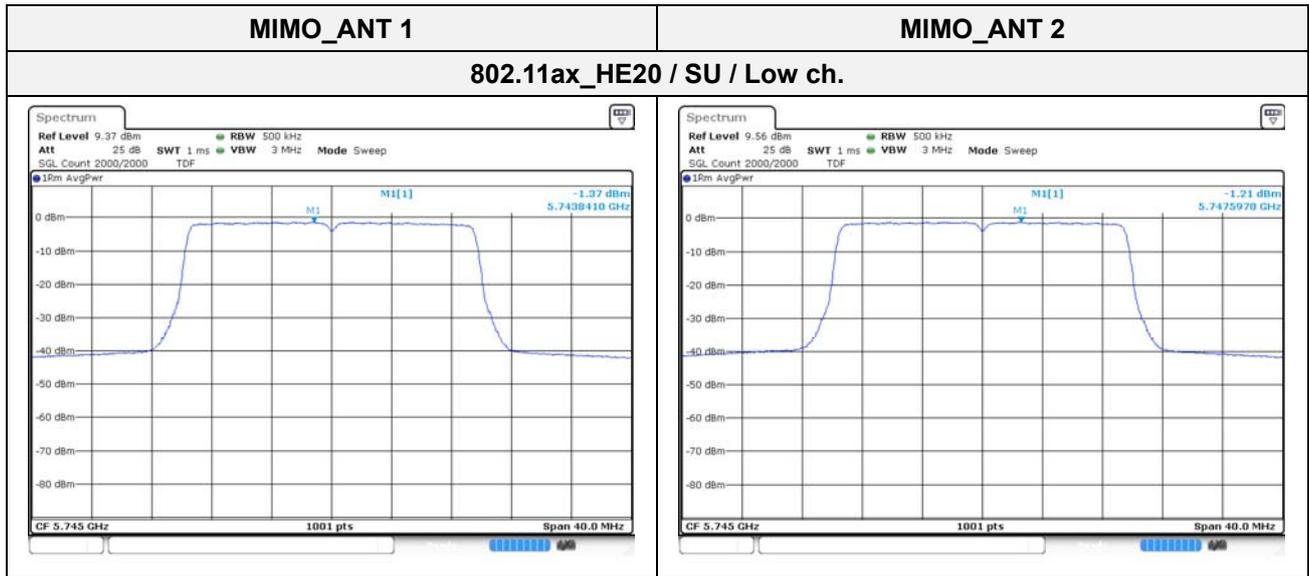
**2Tx MIMO_HE40_UNII-3 Band**
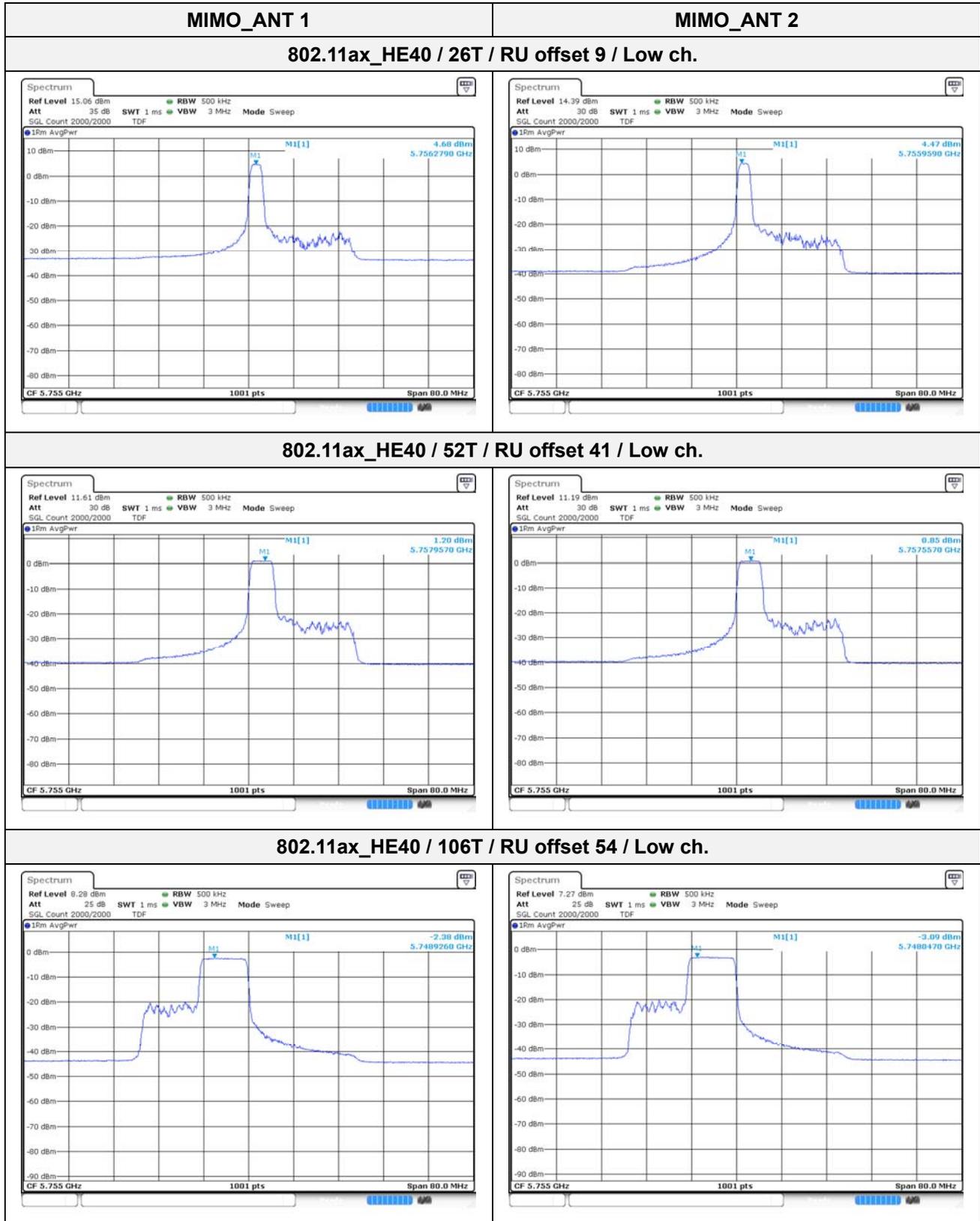
| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 26T / RU offset 9 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 52T / RU offset 41 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / 106T / RU offset 54 / Low ch.** | |
|  |  |

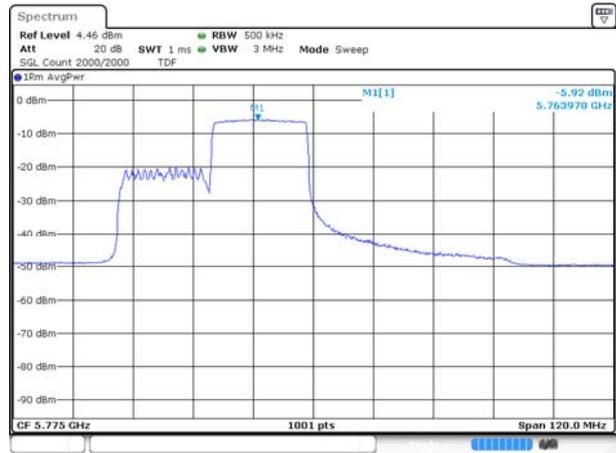| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE40 / 242T / RU offset 62 / Low ch.** | |
|  |  |
| **802.11ax_HE40 / SU / Low ch.** | |
|  |  |
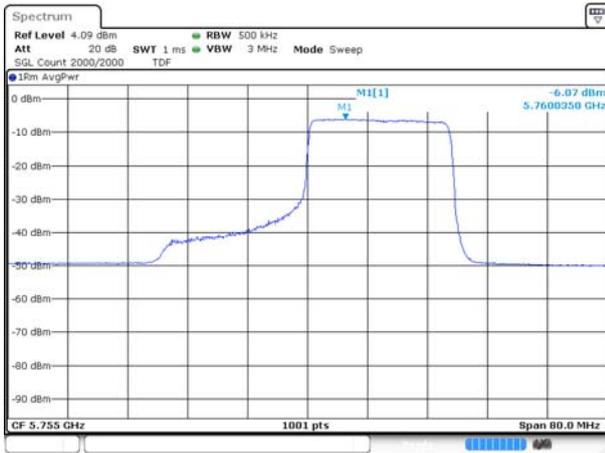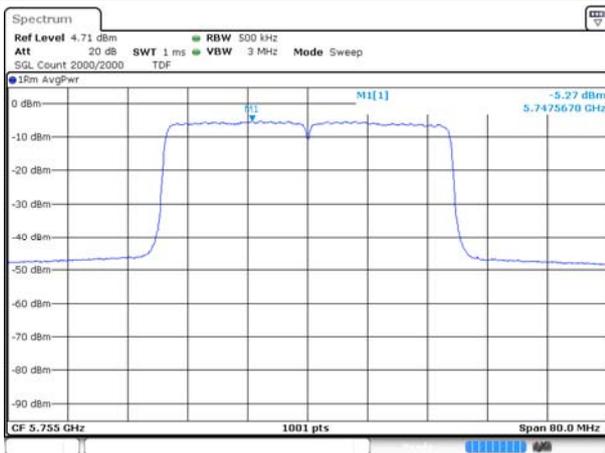
## 2Tx MIMO_HE80_UNII-3 Band

| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE80 / 26T / RU offset 0 / Mid ch.** | |
|  |  |
| **802.11ax_HE80 / 52T / RU offset 45 / Mid ch.** | |
|  |  |
| **802.11ax_HE80 / 106T / RU offset 57 / Mid ch.** | |
|  |  |

http://www.kctl.co.kr
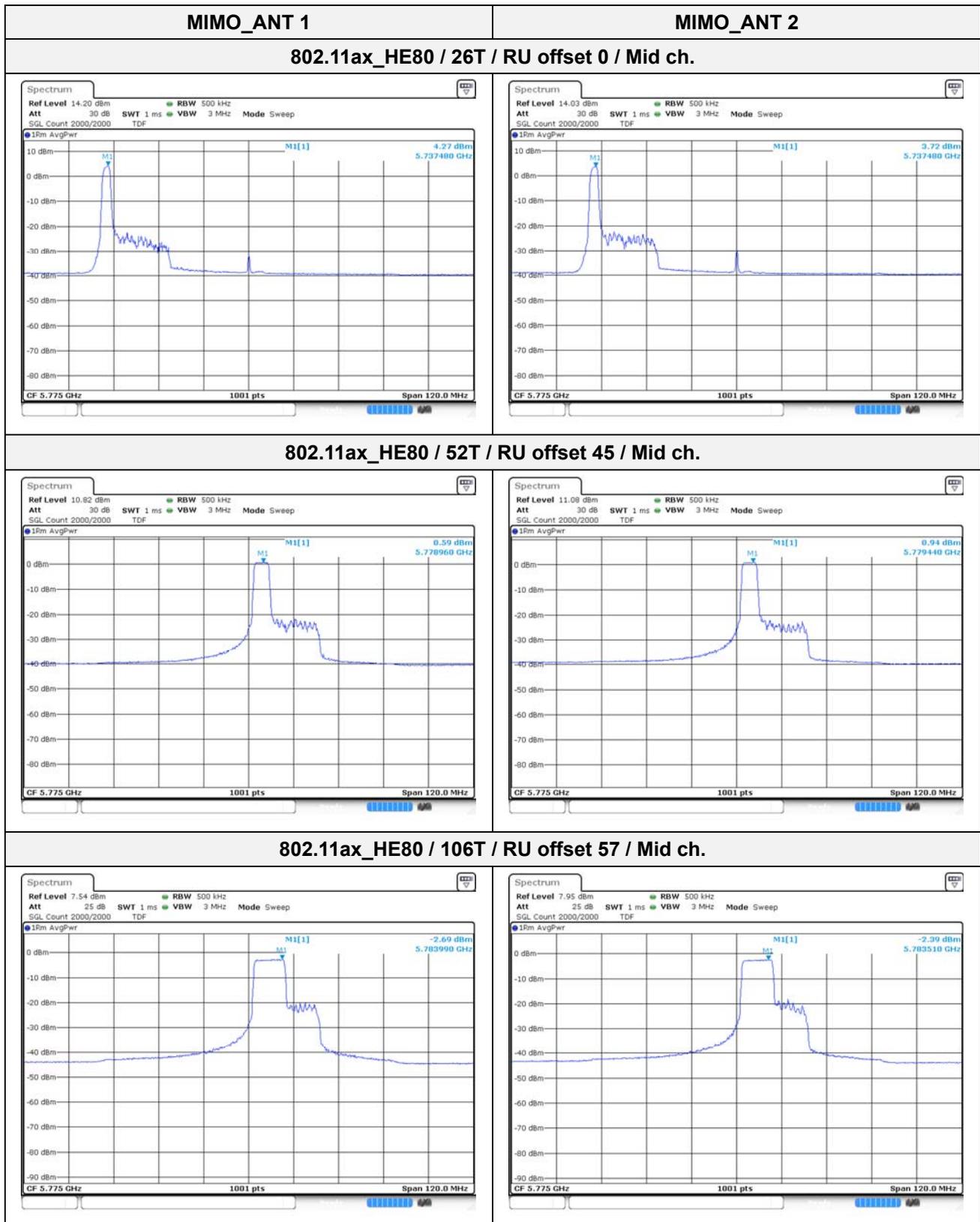
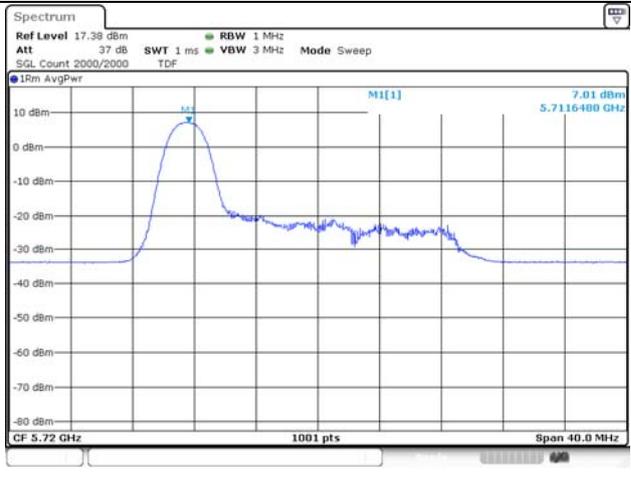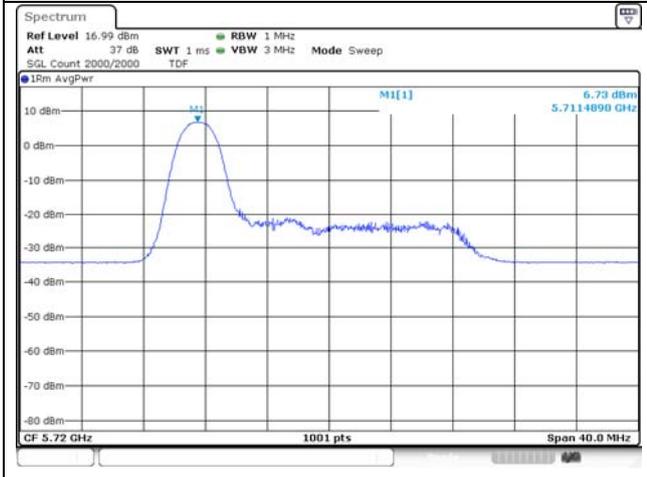| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE80 / 242T / RU offset 62 / Mid ch.** | |
|  |  |
| **802.11ax_HE80 / 484T / RU offset 65 / Mid ch.** | |
|  |  |
| **802.11ax_HE20 / SU / Mid ch.** | |
|  |  |
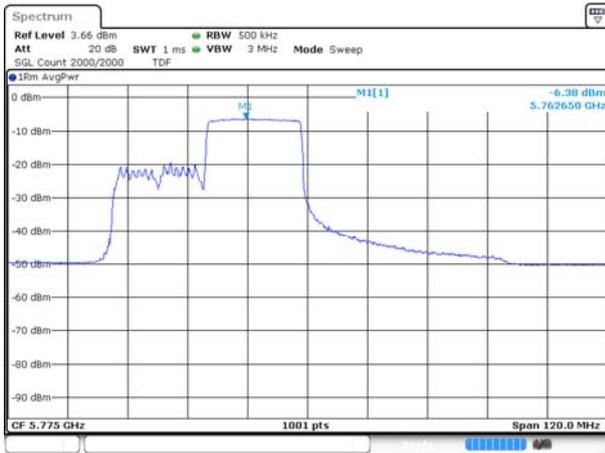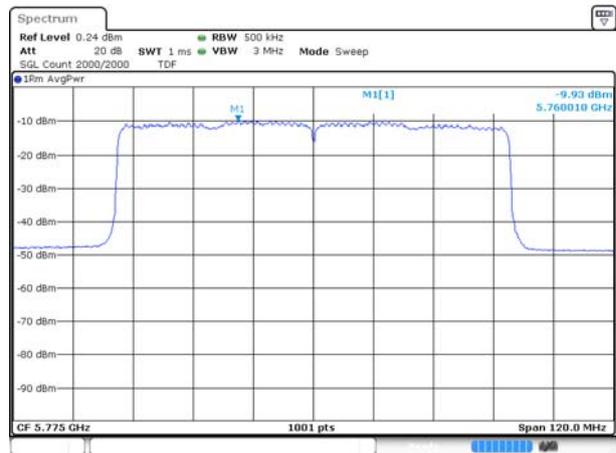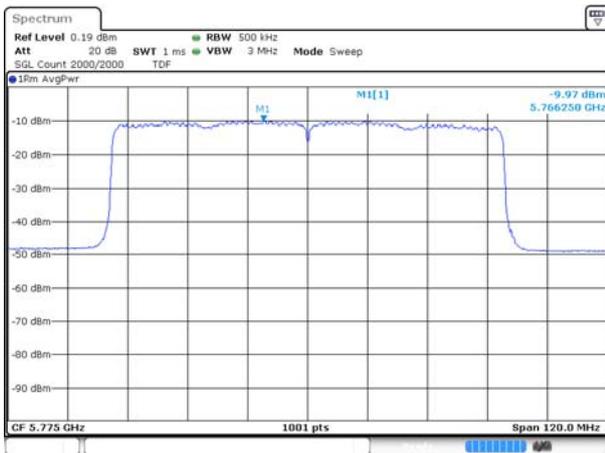
**2Tx MIMO_HE20_UNII-2C Band_Straddle**

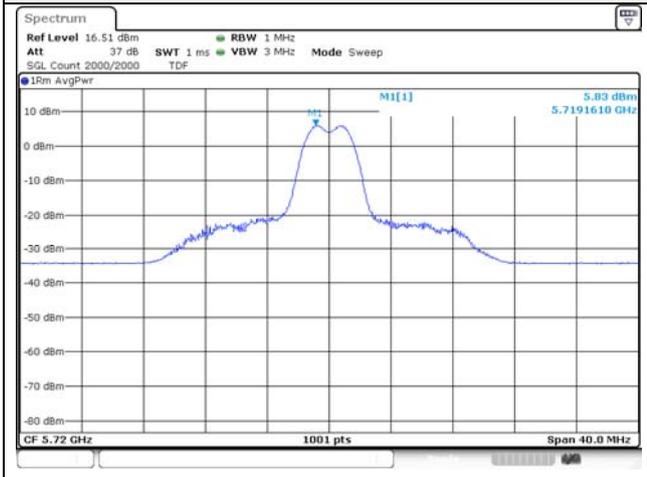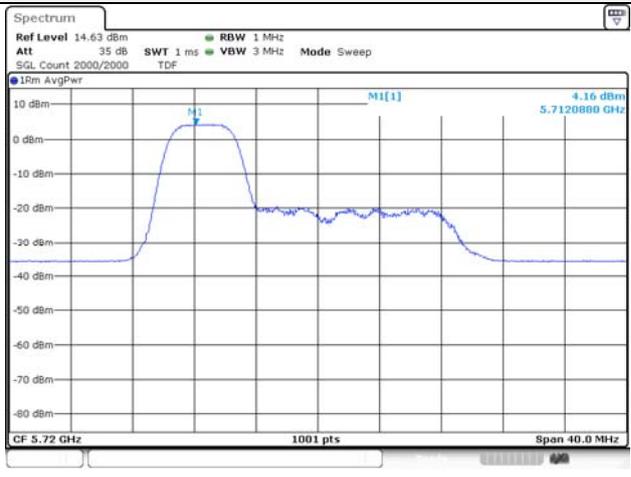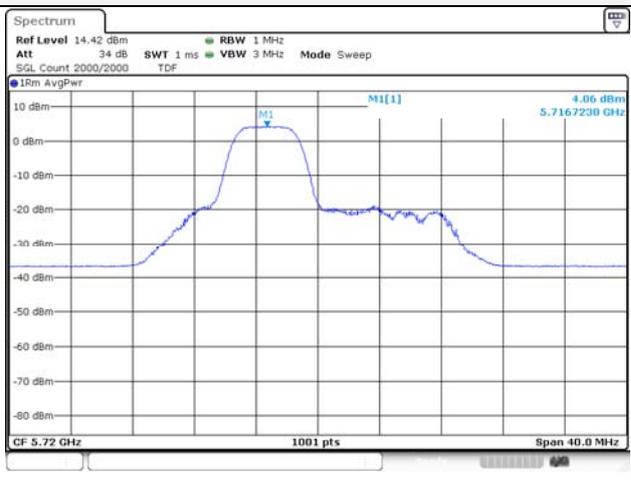| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
| **802.11ax_HE20 / 26T / RU offset 0 / 5720 Mhz** | |



| **802.11ax_HE20 / 26T / RU offset 4 / 5720 Mhz** | |
|---|---|



| **802.11ax_HE20 / 52T / RU offset 37 / 5720 Mhz** | |
|---|---|



| MIMO_ANT 1 | MIMO_ANT 2 |
|---|---|
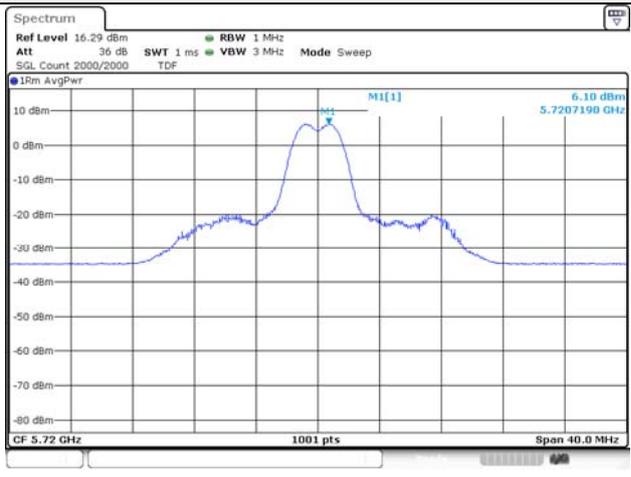
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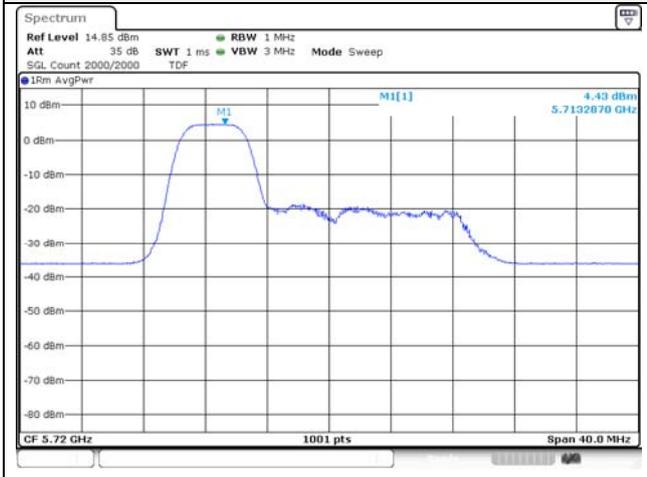
| 802.11ax_HE20 / 52T / RU offset 38 / 5720 Mhz | |
|---|---|
|  |  |

| 802.11ax_HE20 / 106T / RU offset 53 / 5720 Mhz | |
|---|---|
|  |  |
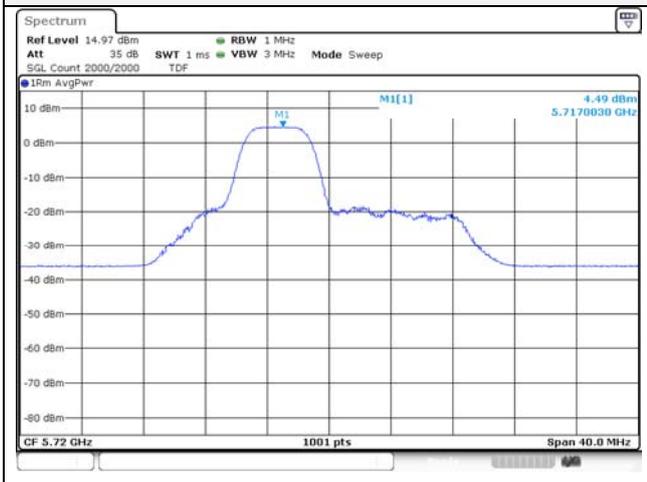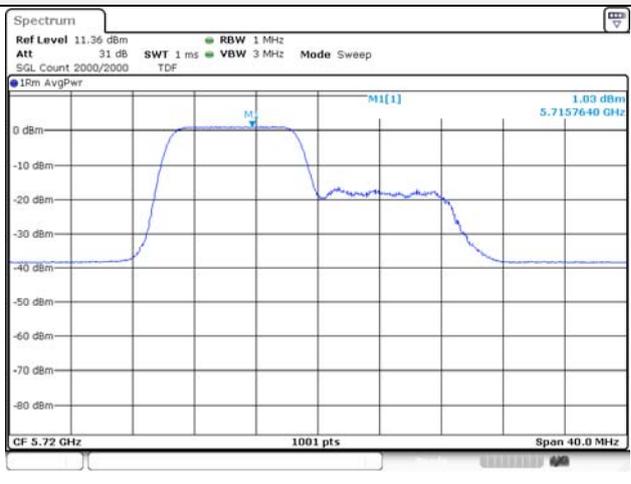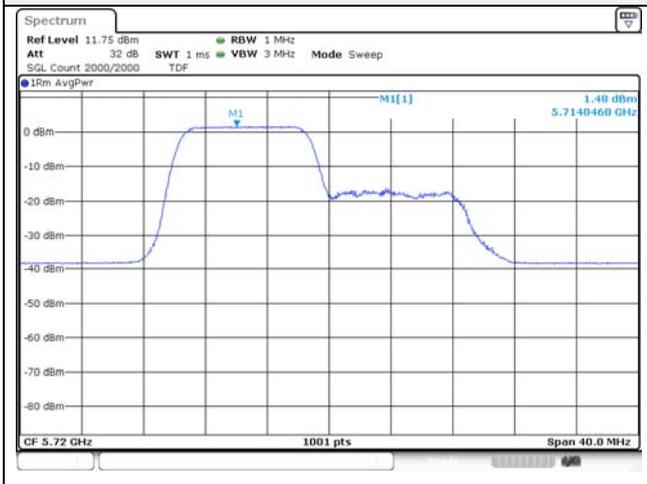
**2Tx MIMO_HE20_UNII-3 Band_Straddle**