

## A.6 POWER SPECTRAL DENSITY

|                                                             |                      |            |                                                                        |
|-------------------------------------------------------------|----------------------|------------|------------------------------------------------------------------------|
| Test Date                                                   | 2019/11/29 ~ 12/09   | Temp./Hum. | 20 ~ 23°C / 47 ~ 53%                                                   |
| Cable Loss                                                  | 0.8dB                | Tested By  | Kuper Hsu                                                              |
| Test Voltage                                                | DC 5V (via Test JIG) |            |                                                                        |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) |                      |            | 802.11b/g: 3,<br>802.11n-HT20/40: 3,<br>802.11ax-HE20/40: 3,<br>BLE: 0 |

### A.6.1 Power Spectral Density Result

#### Chipset: MT7668AUN

| Mode         | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|--------------|------------------------|------------------------------|-------------|
| 802.11b      | 2412                   | 5.49                         | <8 dBm/3kHz |
|              | 2437                   | 3.09                         |             |
|              | 2462                   | 1.81                         |             |
|              | 2472                   | -3.76                        |             |
| 802.11g      | 2412                   | -3.62                        |             |
|              | 2437                   | -4.20                        |             |
|              | 2462                   | -4.44                        |             |
|              | 2472                   | -6.69                        |             |
| 802.11n-HT20 | 2412                   | -5.09                        |             |
|              | 2437                   | -3.31                        |             |
|              | 2462                   | -2.34                        |             |
|              | 2472                   | -7.08                        |             |
| 802.11n-HT40 | 2422                   | -11.98                       |             |
|              | 2437                   | -8.27                        |             |
|              | 2452                   | -6.77                        |             |
|              | 2462                   | -11.52                       |             |

Note: All results have been included cable loss and Simultaneous Factor.

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| Mode | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|------|------------------------|------------------------------|-------------|
| BLE  | 2402                   | -4.60                        | <8 dBm/3kHz |
|      | 2440                   | -4.58                        |             |
|      | 2480                   | -4.91                        |             |

Note: All results have been included cable loss and Simultaneous Factor.

**Chipset: MT7915DUN**

| Mode         | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|--------------|------------------------|------------------------------|-------------|
| 802.11b      | 2412                   | 5.57                         | <8 dBm/3kHz |
|              | 2437                   | 4.71                         |             |
|              | 2462                   | 2.11                         |             |
|              | 2472                   | -4.62                        |             |
| 802.11g      | 2412                   | -2.46                        |             |
|              | 2437                   | -1.58                        |             |
|              | 2462                   | -1.92                        |             |
|              | 2472                   | -5.45                        |             |
| 802.11n-HT20 | 2412                   | -2.94                        |             |
|              | 2437                   | -2.94                        |             |
|              | 2462                   | -2.35                        |             |
|              | 2472                   | -10.54                       |             |
| 802.11n-HT40 | 2422                   | -7.77                        |             |
|              | 2437                   | -8.14                        |             |
|              | 2452                   | -7.81                        |             |
|              | 2462                   | -7.51                        |             |

Note: All results have been included cable loss and Simultaneous Factor.

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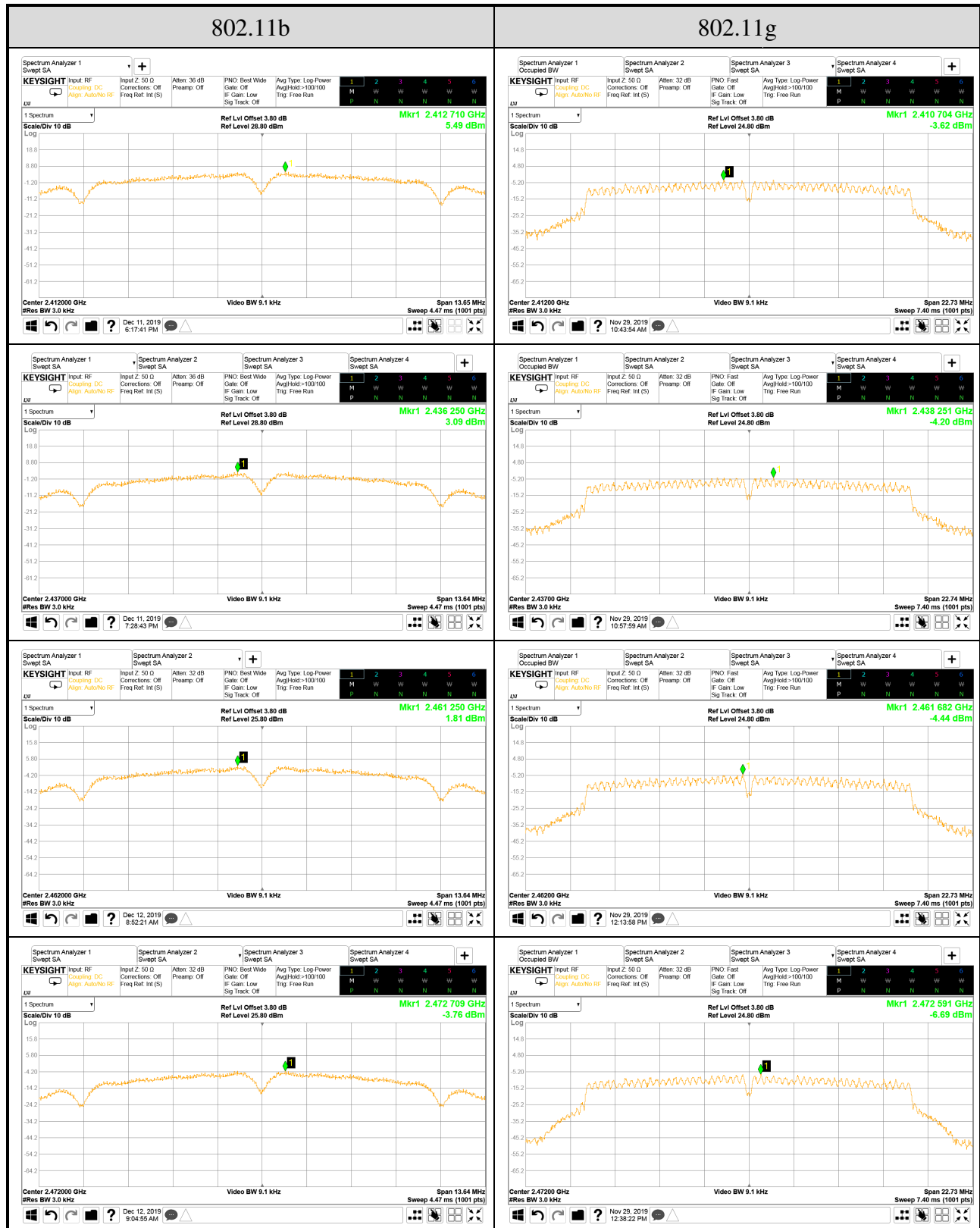
| Mode          | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|---------------|------------------------|------------------------------|-------------|
| 802.11ax-HE20 | 2412                   | -5.39                        | <8 dBm/3kHz |
|               | 2437                   | -4.07                        |             |
|               | 2462                   | -3.27                        |             |
|               | 2472                   | -13.28                       |             |
| 802.11ax-HE40 | 2422                   | -8.34                        |             |
|               | 2437                   | -7.49                        |             |
|               | 2452                   | -8.45                        |             |
|               | 2462                   | -11.44                       |             |

| Mode          | RU Config | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit       |
|---------------|-----------|------------------------|------------------------------|-------------|
| 802.11ax-HE20 | 26/0      | 2412                   | 4.56                         | <8 dBm/3kHz |
|               | 52/37     |                        | 1.50                         |             |
|               | 106/53    |                        | -1.19                        |             |
|               | 26/8      | 2472                   | 3.94                         |             |
|               | 52/40     |                        | 1.30                         |             |
|               | 106/54    |                        | -1.18                        |             |
| 802.11ax-HE40 | 242/61    | 2422                   | -7.83                        |             |
|               | 242/62    | 2462                   | -6.84                        |             |

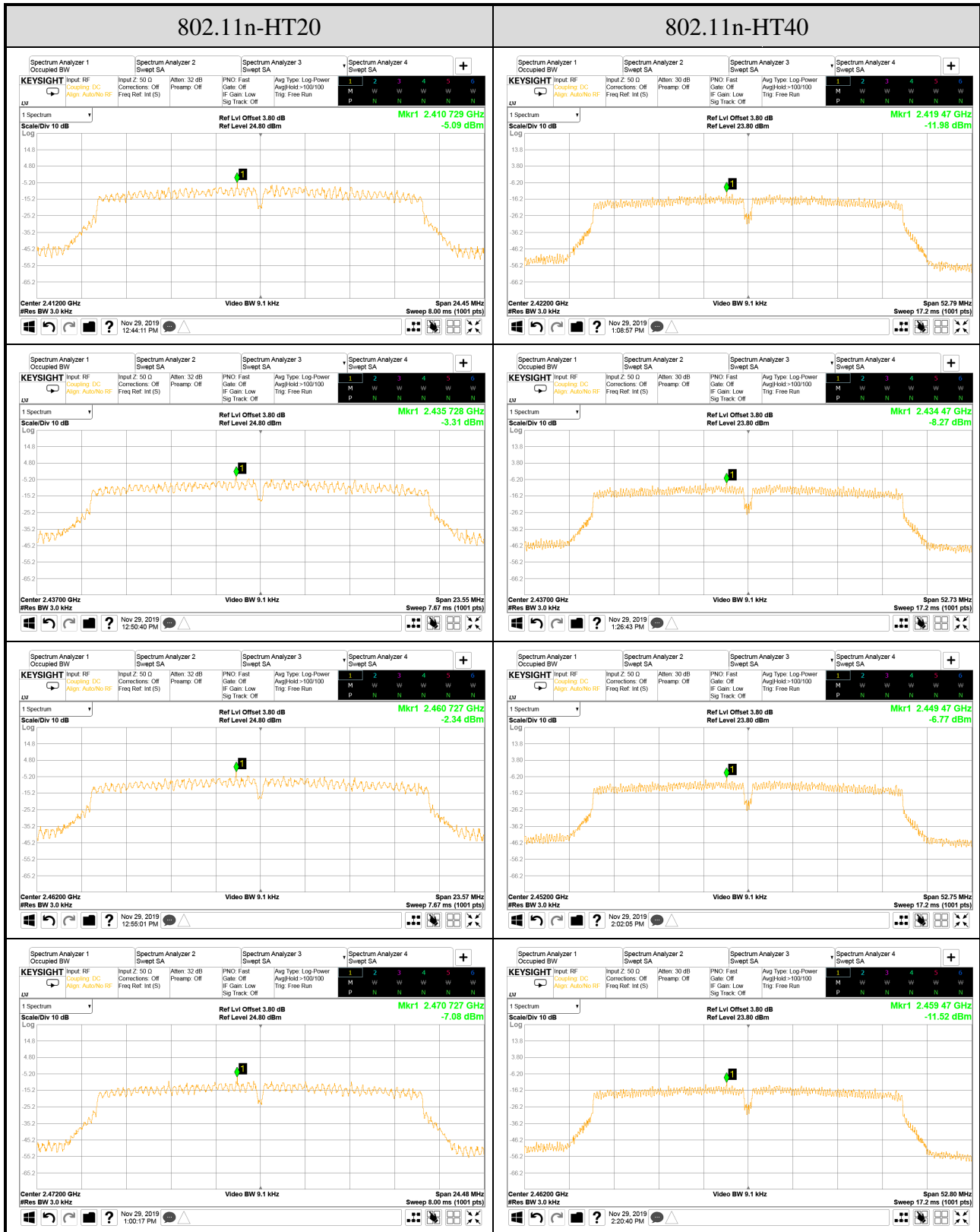
Note: All results have been included cable loss and Simultaneous Factor.

## A.6.2 Measurement Plots

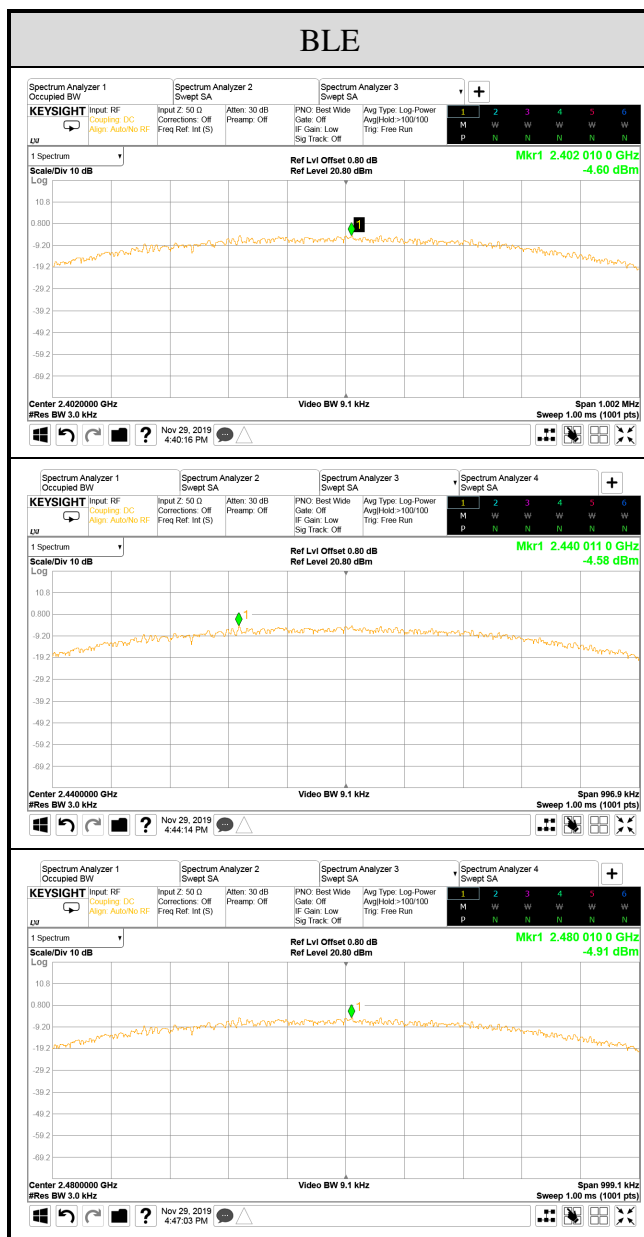
### Chipset: MT7668AUN



Note: All results have been included cable loss and Simultaneous Factor.

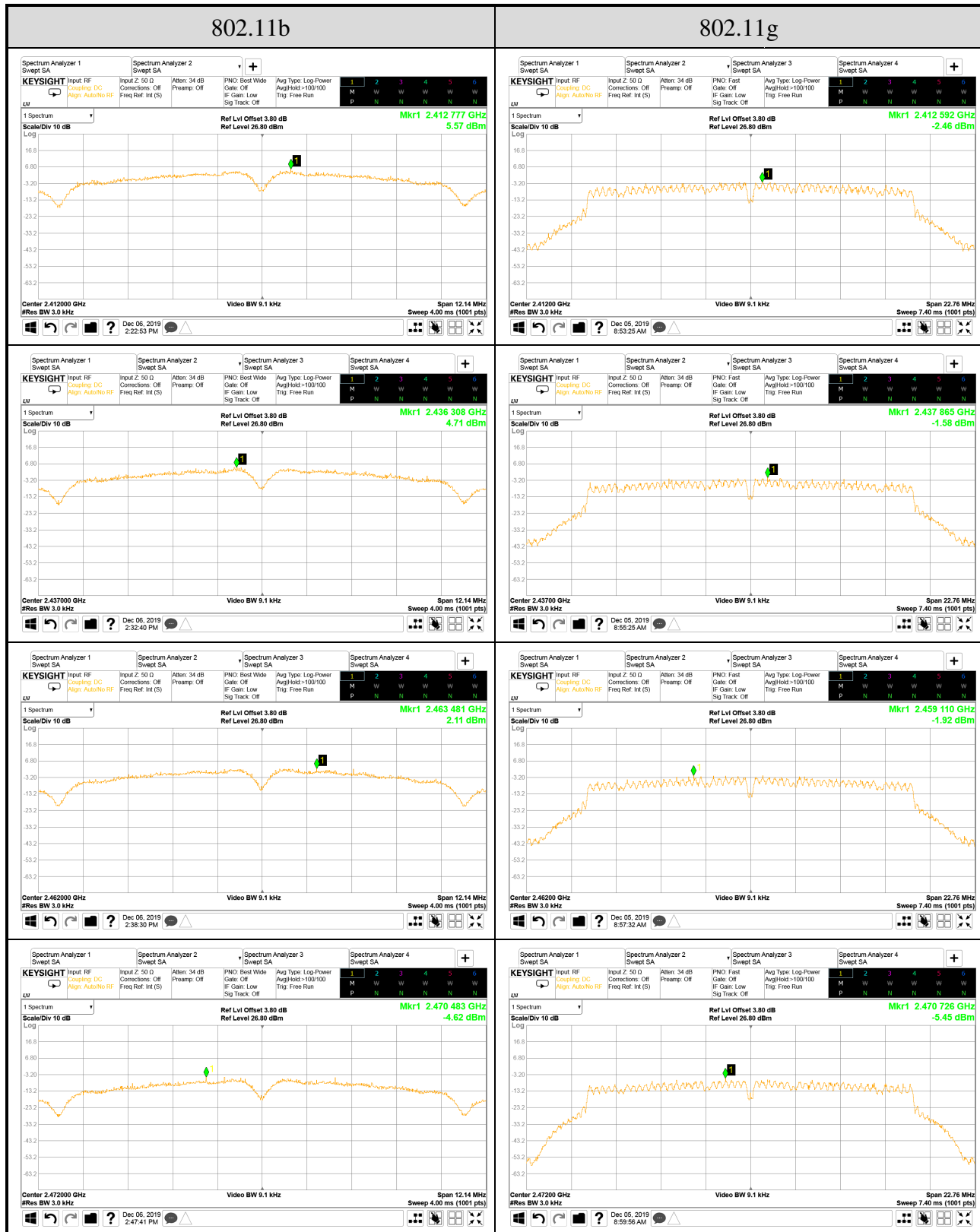


Note: All results have been included cable loss and Simultaneous Factor.

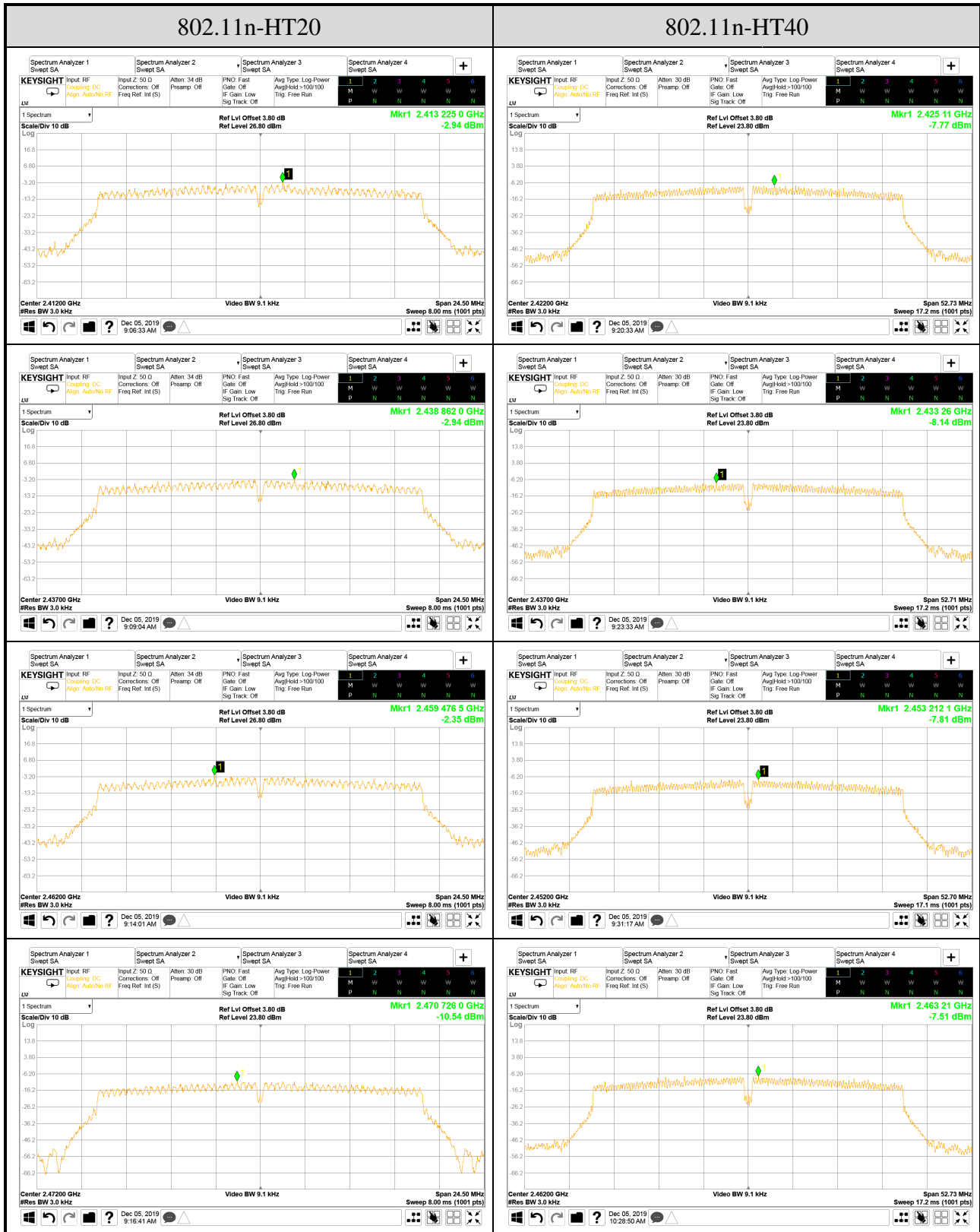


Note: All results have been included cable loss and Simultaneous Factor.

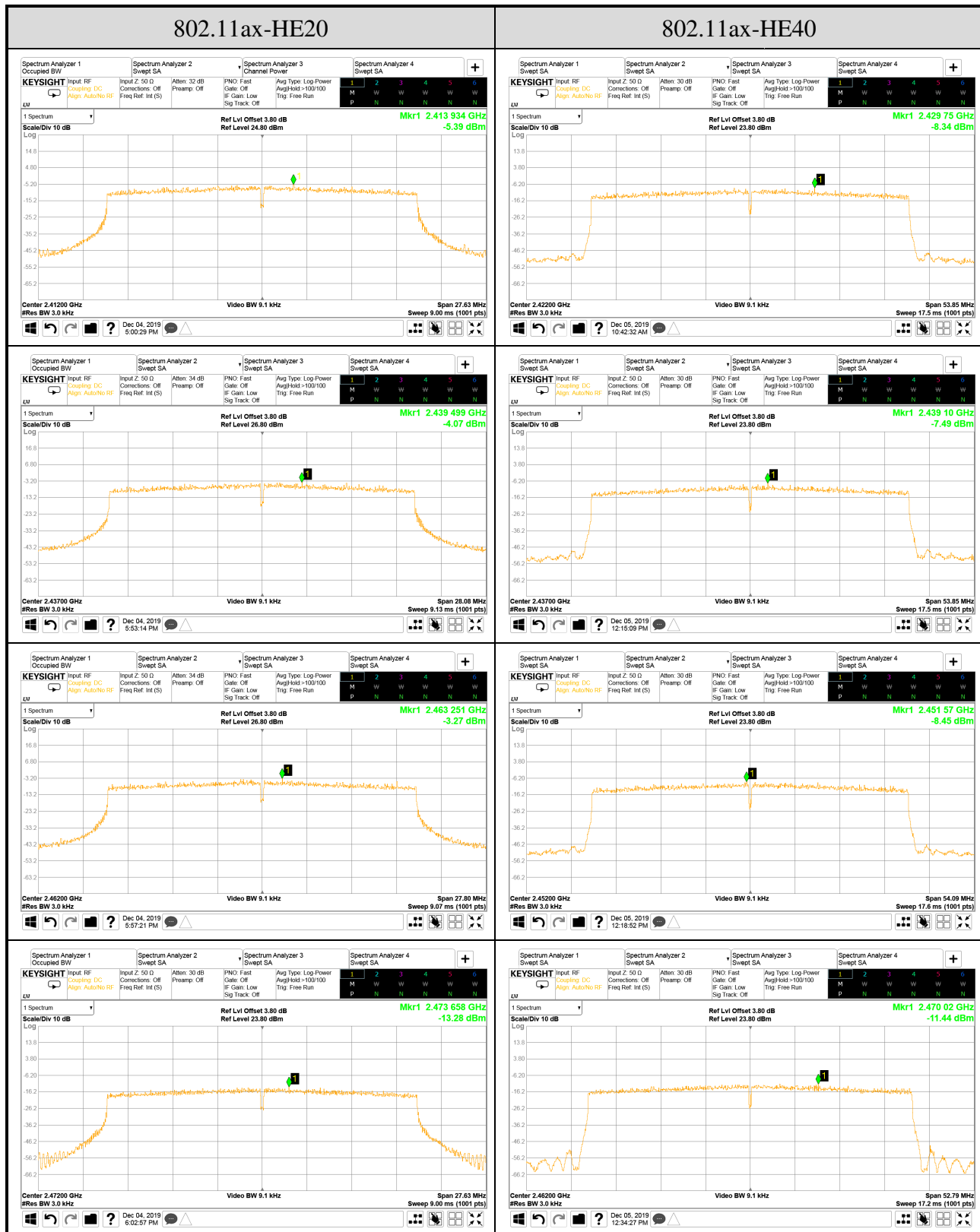
## Chipset: MT7915DUN



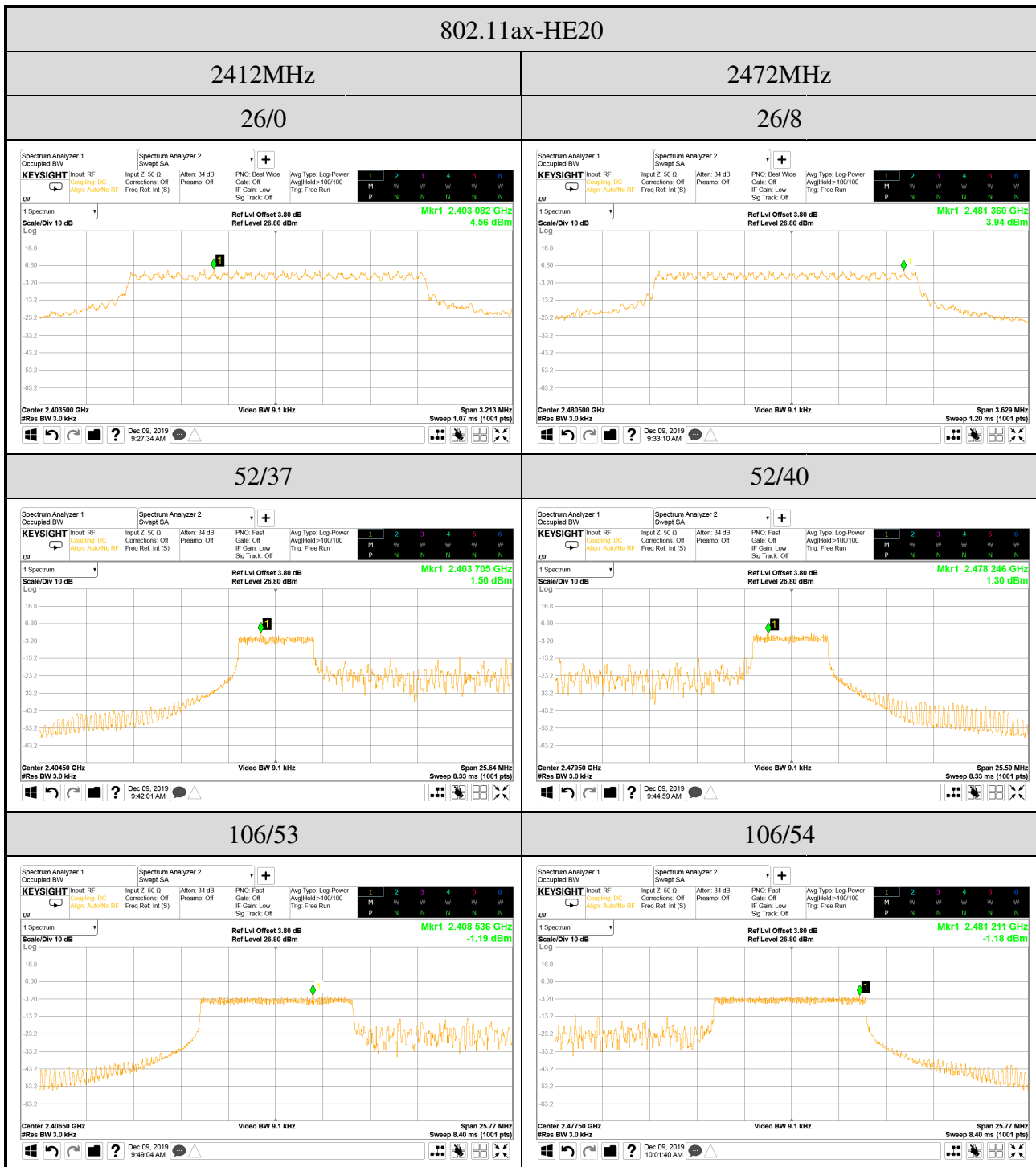
Note: All results have been included cable loss and Simultaneous Factor.



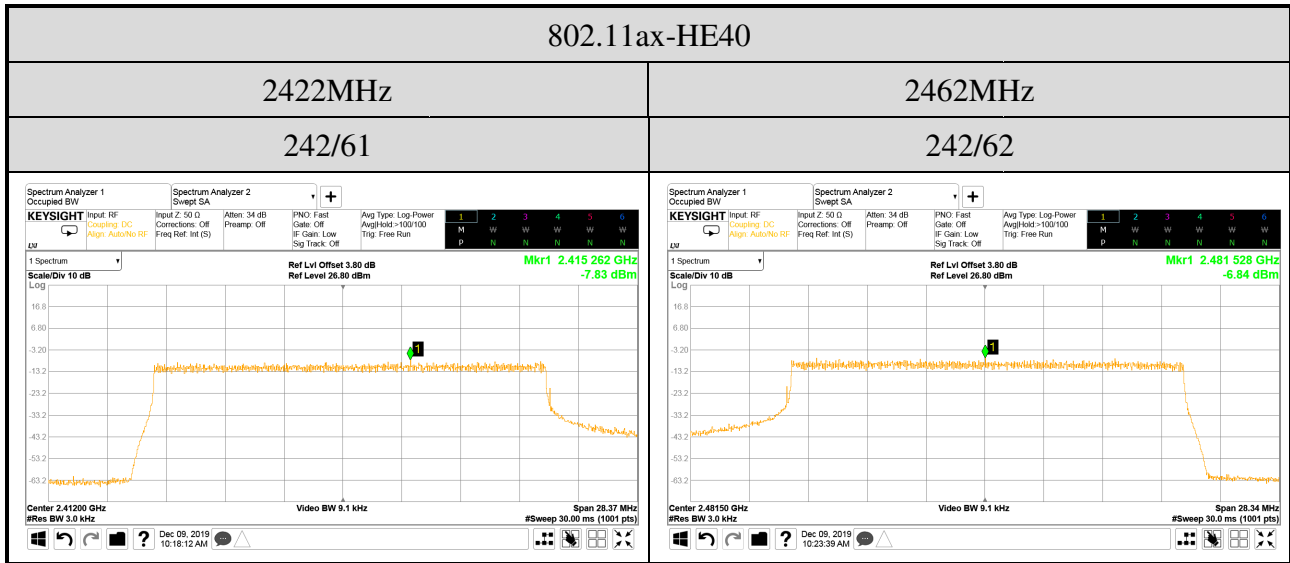
Note: All results have been included cable loss and Simultaneous Factor.



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