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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: mPAD-7.....)

File Number: C1M1607289

Report Number: EM-F160523

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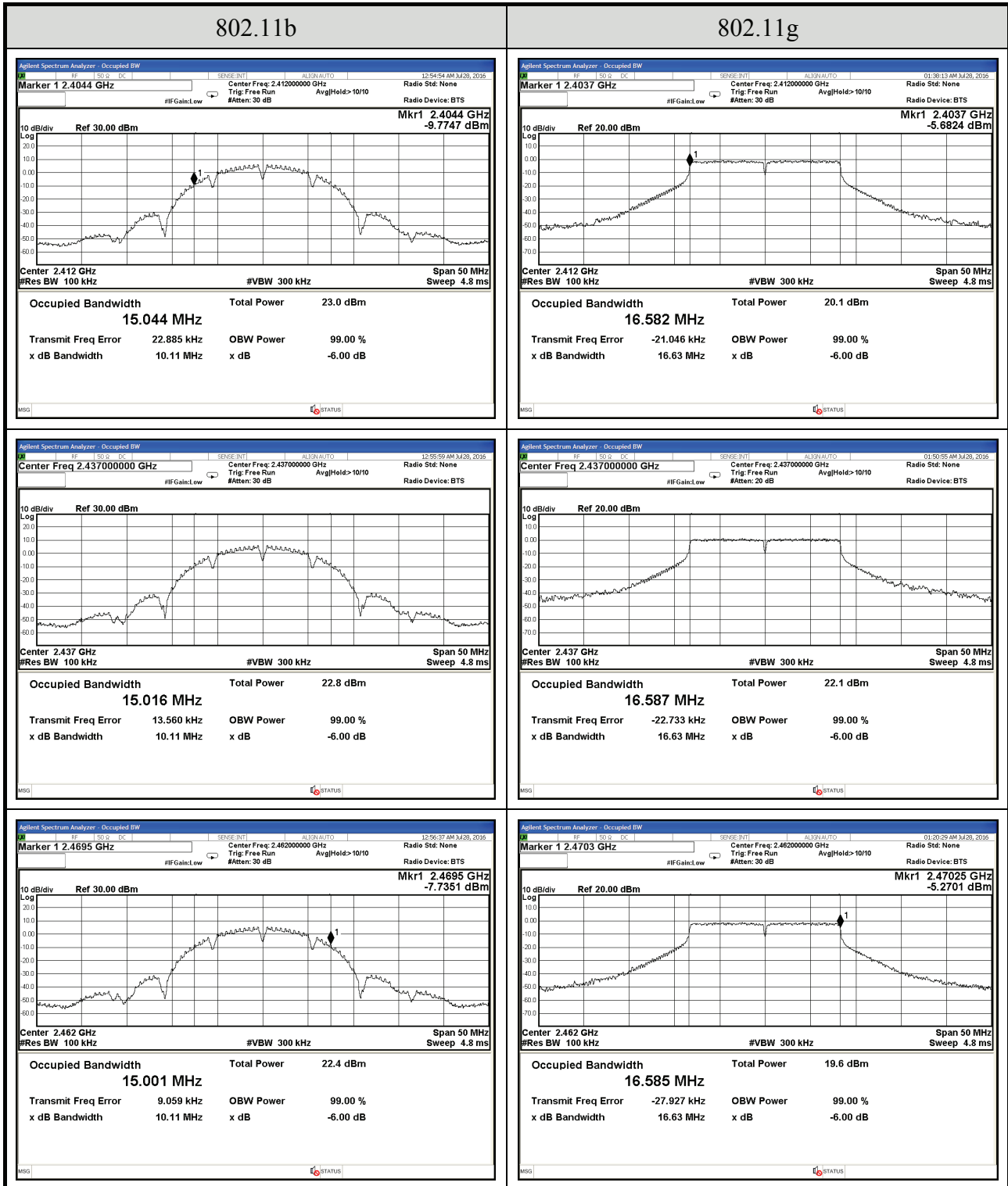
A.1 6dB BANDWIDTH MEASUREMENT

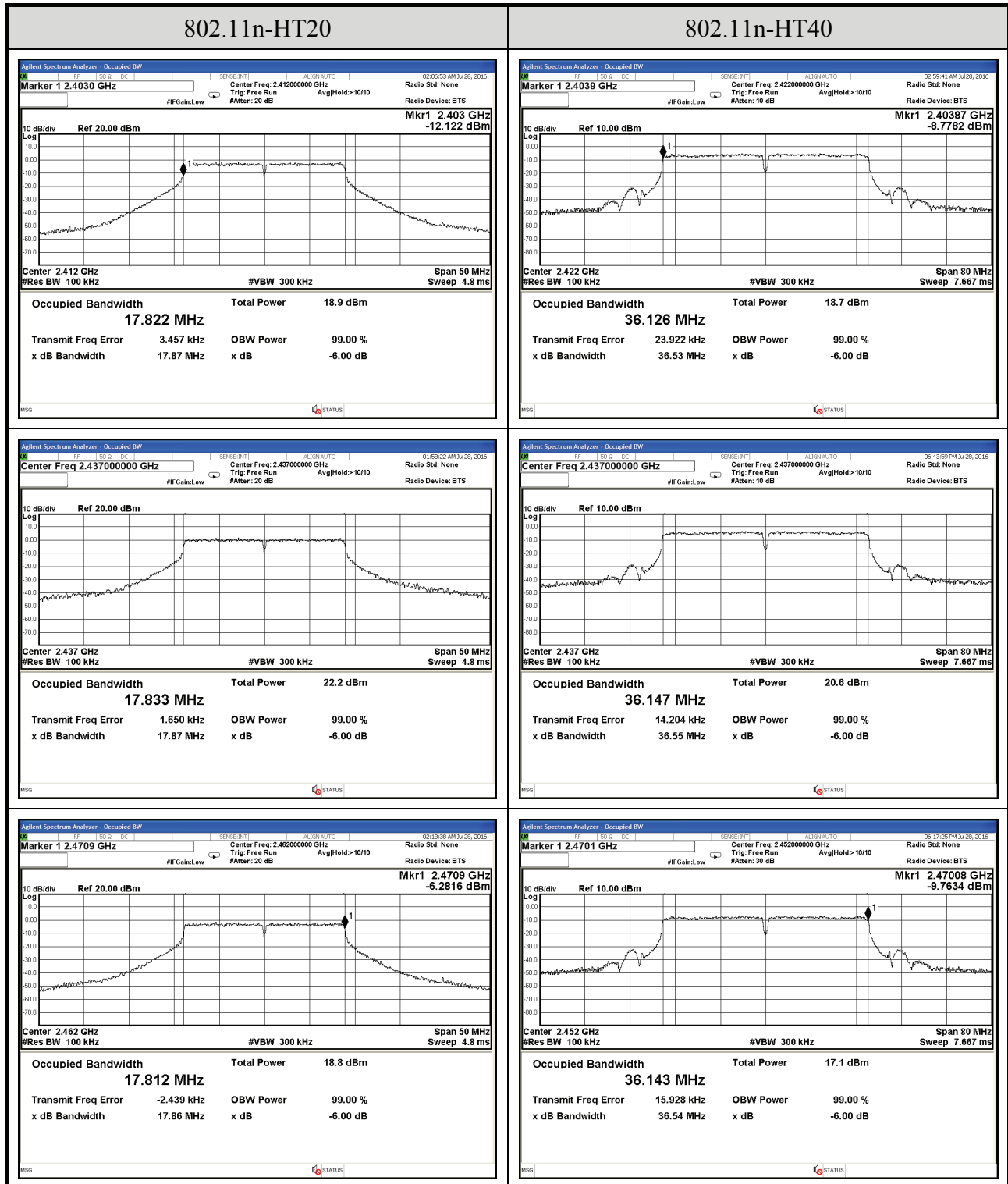
| | | | |
|------------|------------|--------------|----------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | --- | Test Voltage | DC 3.7V |

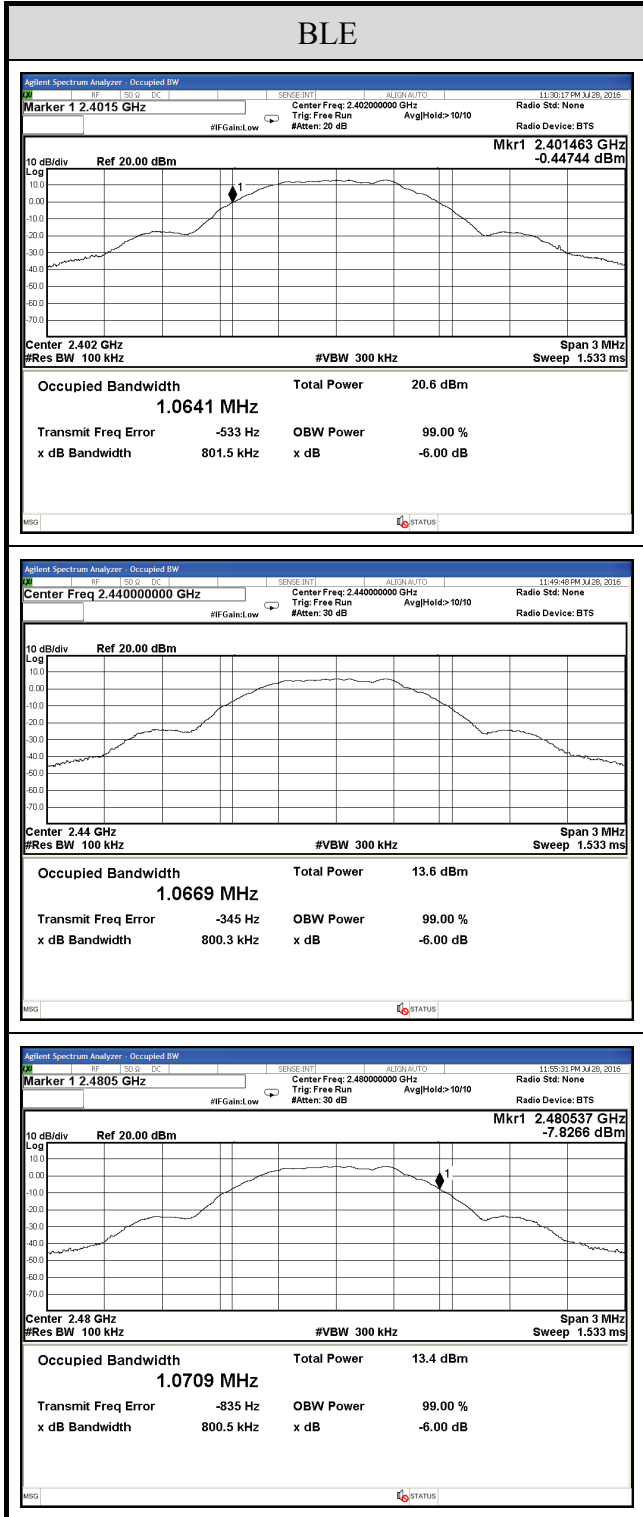
A.1.1 6dB Bandwidth Result

| Modulation Type | Centre Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit |
|-----------------|------------------------|----------------------|---------|
| 802.11b | 2412 | 10.11 | >500kHz |
| | 2437 | 10.11 | |
| | 2462 | 10.11 | |
| 802.11g | 2412 | 16.63 | |
| | 2437 | 16.63 | |
| | 2462 | 16.63 | |
| 802.11n-HT20 | 2412 | 17.87 | |
| | 2437 | 17.87 | |
| | 2462 | 17.86 | |
| 802.11n-HT40 | 2422 | 36.53 | |
| | 2437 | 36.55 | |
| | 2452 | 36.54 | |
| BLE | 2402 | 0.8015 | |
| | 2440 | 0.8003 | |
| | 2480 | 0.8005 | |

A.1.2 Measurement Plots







A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

| | | | |
|------------|------------|--------------|----------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | --- | Test Voltage | DC 3.7V |

A.2.1 Peak Output Power

| Modulation Type | Centre Frequency (MHz) | Peak Output Power | | Limit |
|-----------------|------------------------|-------------------|----------|--------------|
| | | (dBm) | (W) | |
| 802.11b | 2412 | 18.37 | 0.068707 | < 30dBm (1W) |
| | 2437 | 18.13 | 0.065013 | |
| | 2462 | 17.94 | 0.062230 | |
| 802.11g | 2412 | 22.58 | 0.181134 | |
| | 2437 | 23.29 | 0.213304 | |
| | 2462 | 22.51 | 0.178238 | |
| 802.11n-HT20 | 2412 | 21.36 | 0.136773 | |
| | 2437 | 23.16 | 0.207014 | |
| | 2462 | 21.59 | 0.144212 | |
| 802.11n-HT40 | 2422 | 21.68 | 0.147231 | |
| | 2437 | 22.57 | 0.180717 | |
| | 2452 | 21.51 | 0.141579 | |

Note: The results have been included cable loss.

| Modulation Type | Centre Frequency (MHz) | MAX Output Power | | Limit |
|-----------------|------------------------|------------------|----------|--------------|
| | | (dBm) | (W) | |
| BLE | 2402 | 7.875 | 0.006131 | < 30dBm (1W) |
| | 2440 | 8.298 | 0.006758 | |
| | 2480 | 8.095 | 0.006449 | |

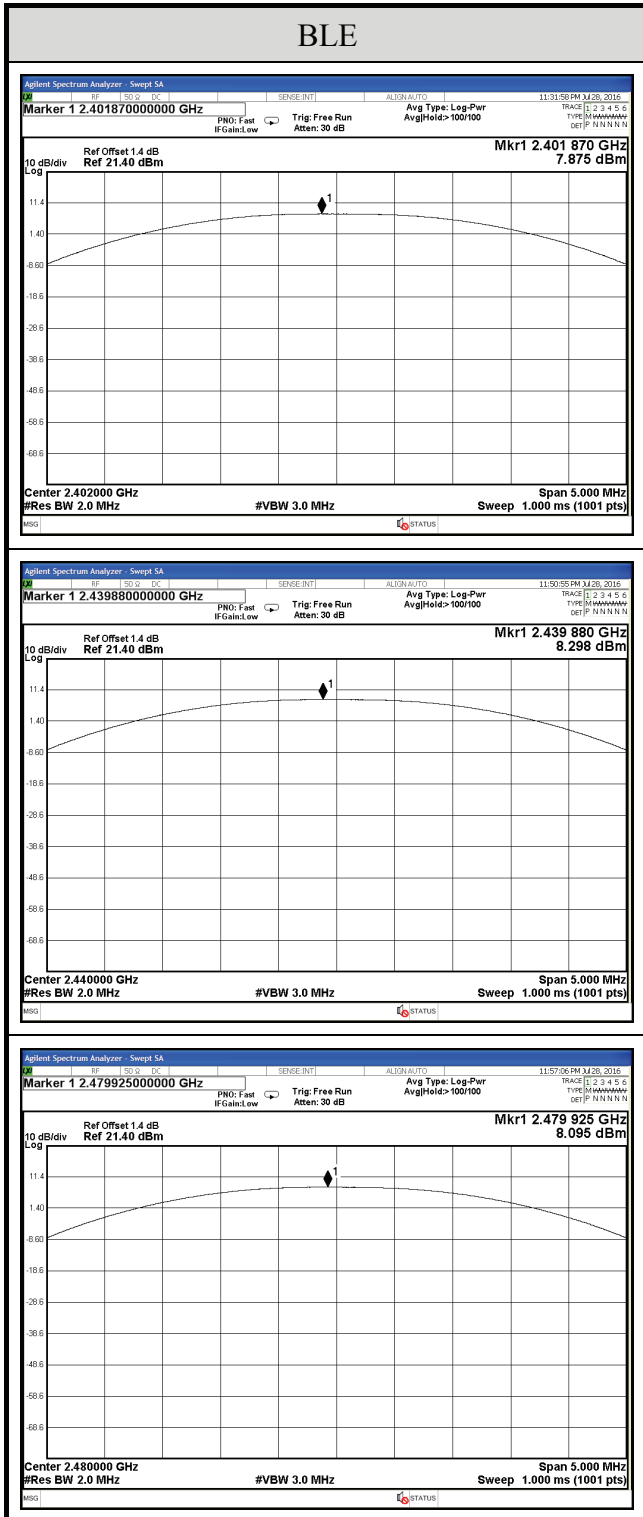
Note: The results have been included cable loss.

A.2.2 Average Output Power (Reporting only)

| Modulation Type | Centre Frequency (MHz) | Average Output Power | | Limit |
|-----------------|------------------------|----------------------|----------|--------------|
| | | (dBm) | (W) | |
| 802.11b | 2412 | 16.45 | 0.044157 | < 30dBm (1W) |
| | 2437 | 16.37 | 0.043351 | |
| | 2462 | 16.02 | 0.039994 | |
| 802.11g | 2412 | 14.36 | 0.027290 | |
| | 2437 | 16.27 | 0.042364 | |
| | 2462 | 14.22 | 0.026424 | |
| 802.11n-HT20 | 2412 | 13.22 | 0.020989 | |
| | 2437 | 16.22 | 0.041879 | |
| | 2462 | 13.31 | 0.021429 | |
| 802.11n-HT40 | 2422 | 13.27 | 0.021232 | |
| | 2437 | 14.75 | 0.029854 | |
| | 2452 | 13.01 | 0.019999 | |

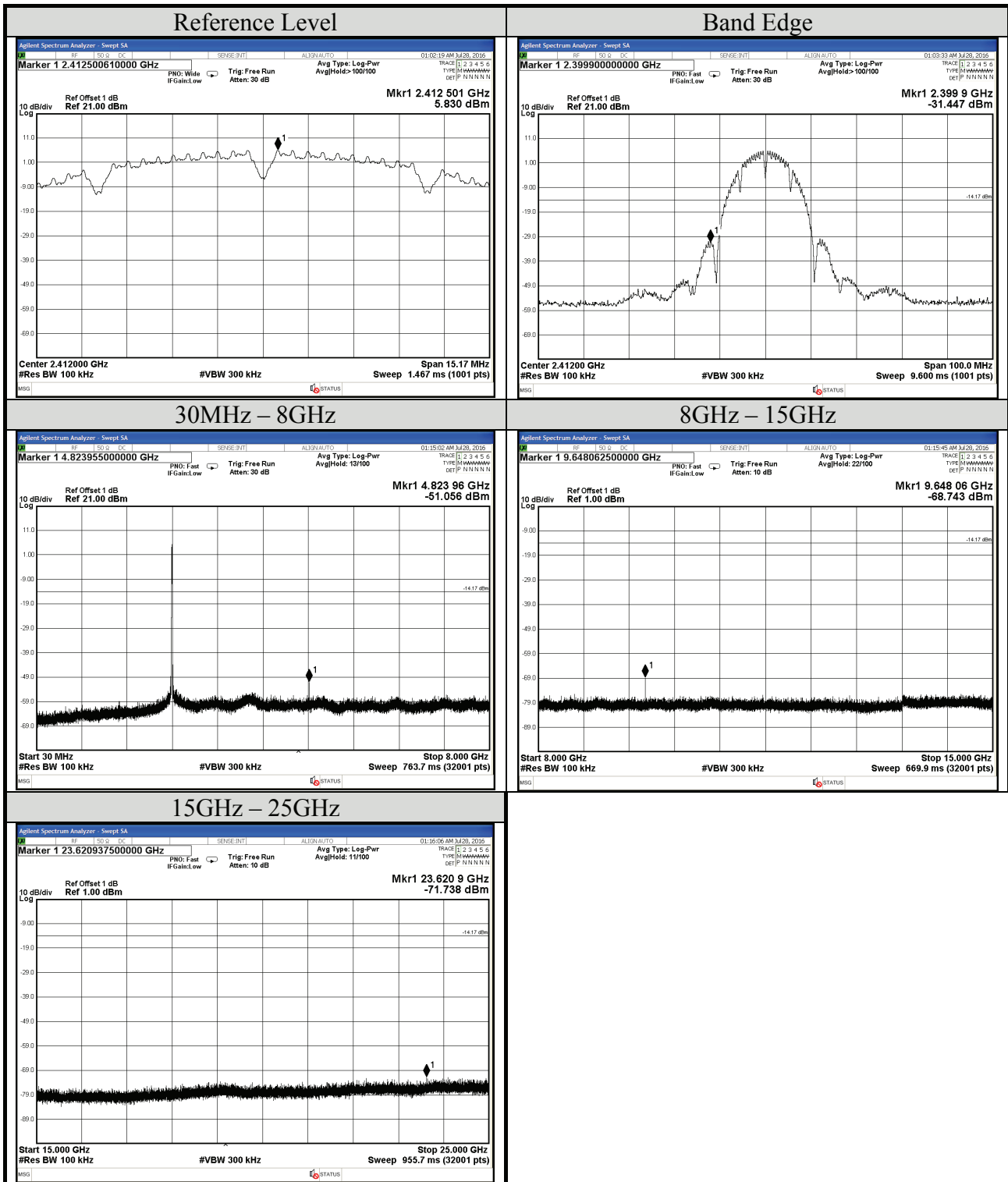
Note: The results have been included cable loss.

A.2.3 Measurement Plots

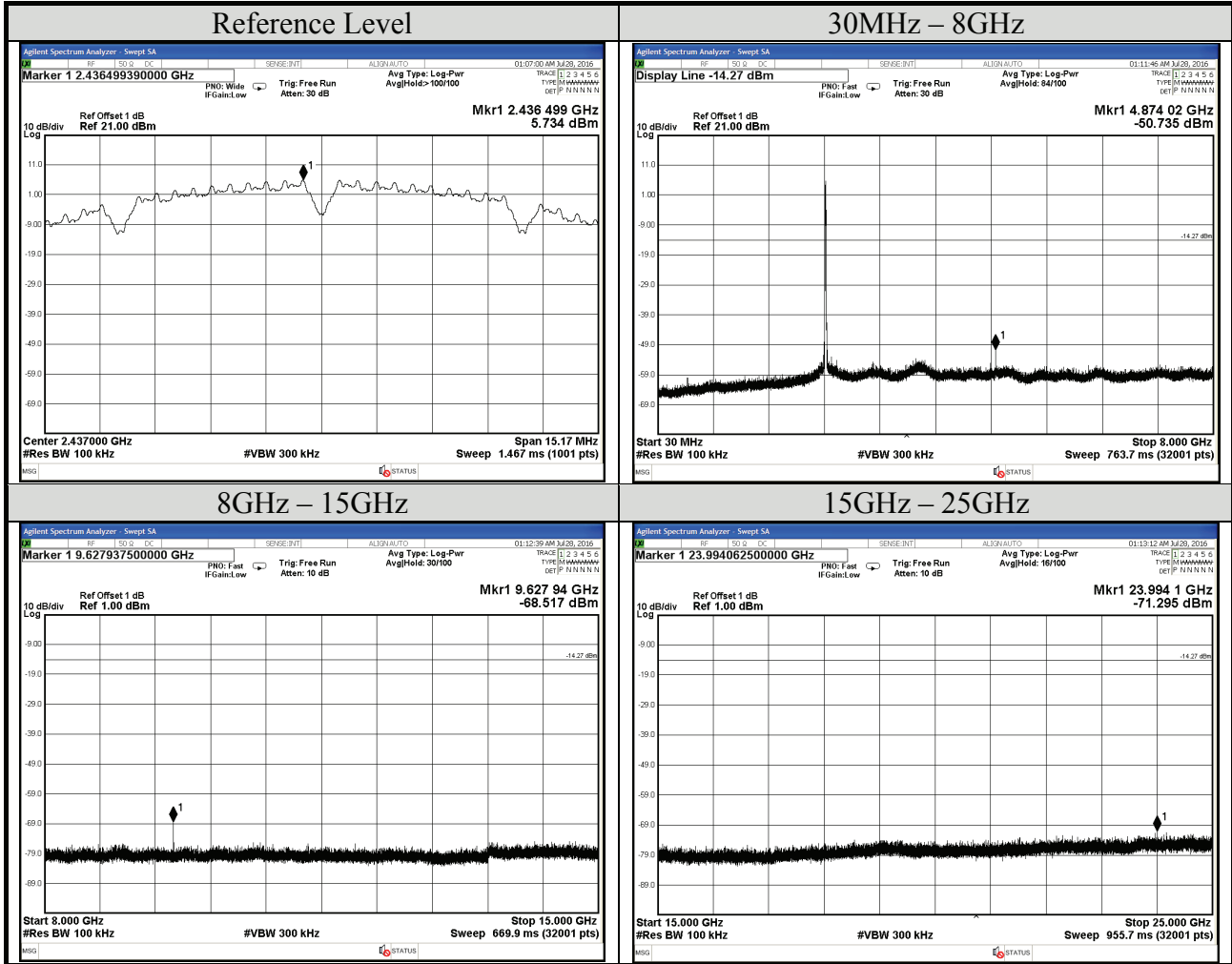


A.3 EMISSION LIMITATIONS MEASUREMENT

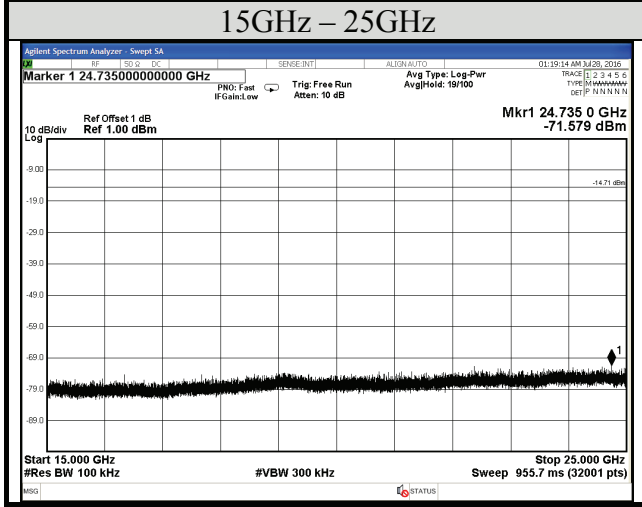
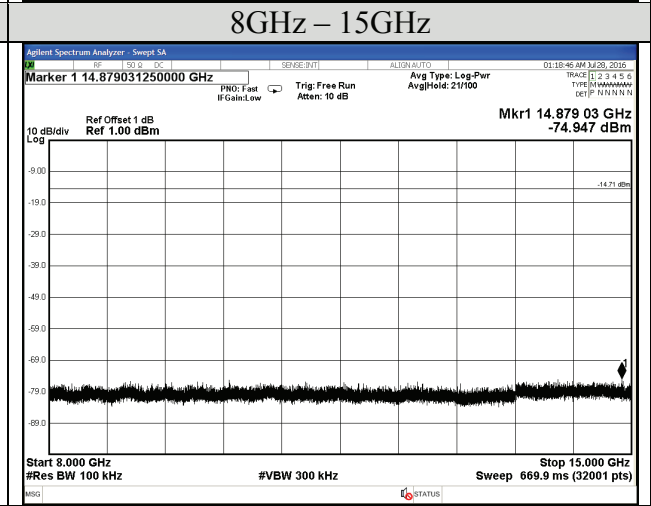
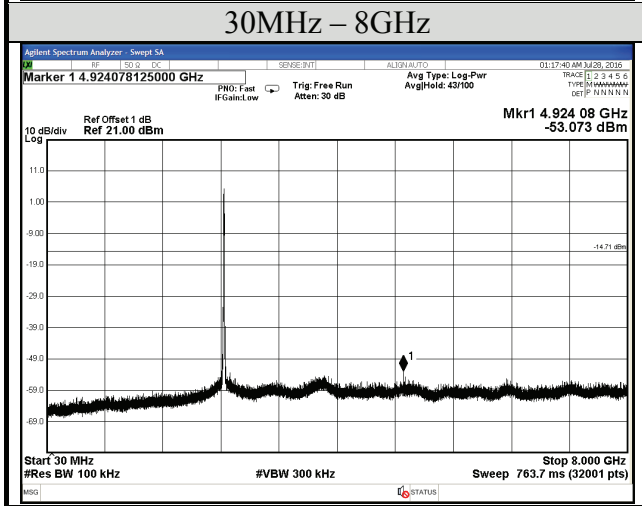
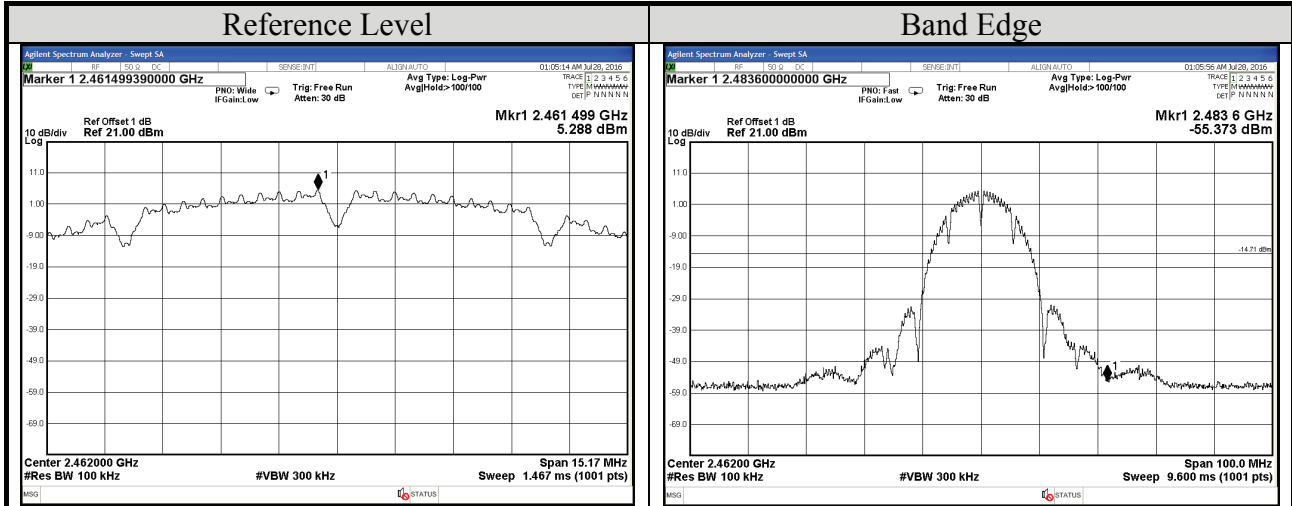
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|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11b | Frequency | TX 2412MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | 0 |



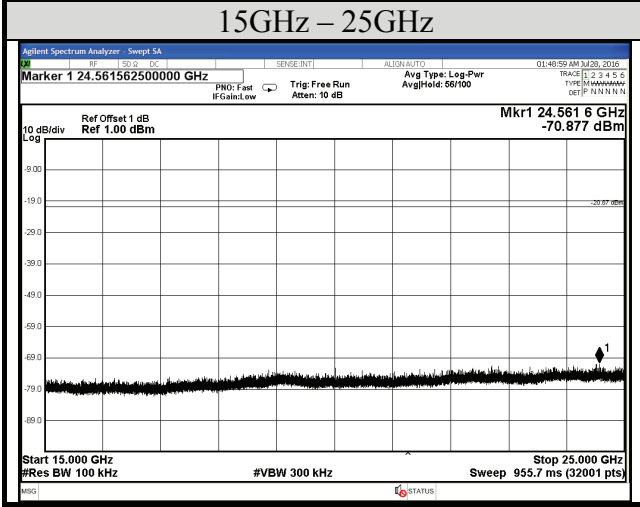
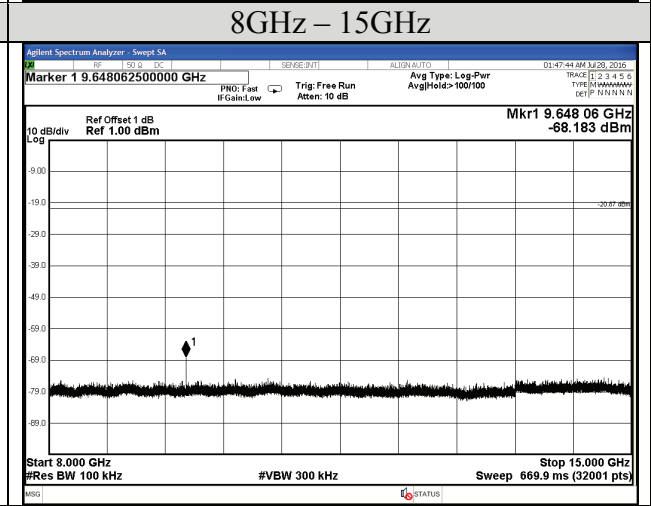
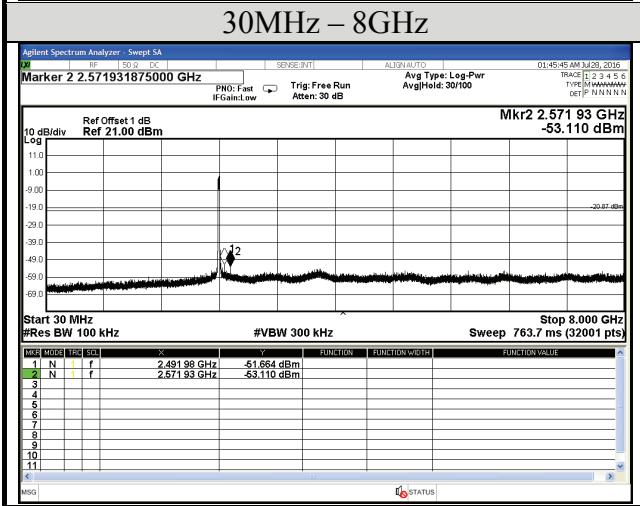
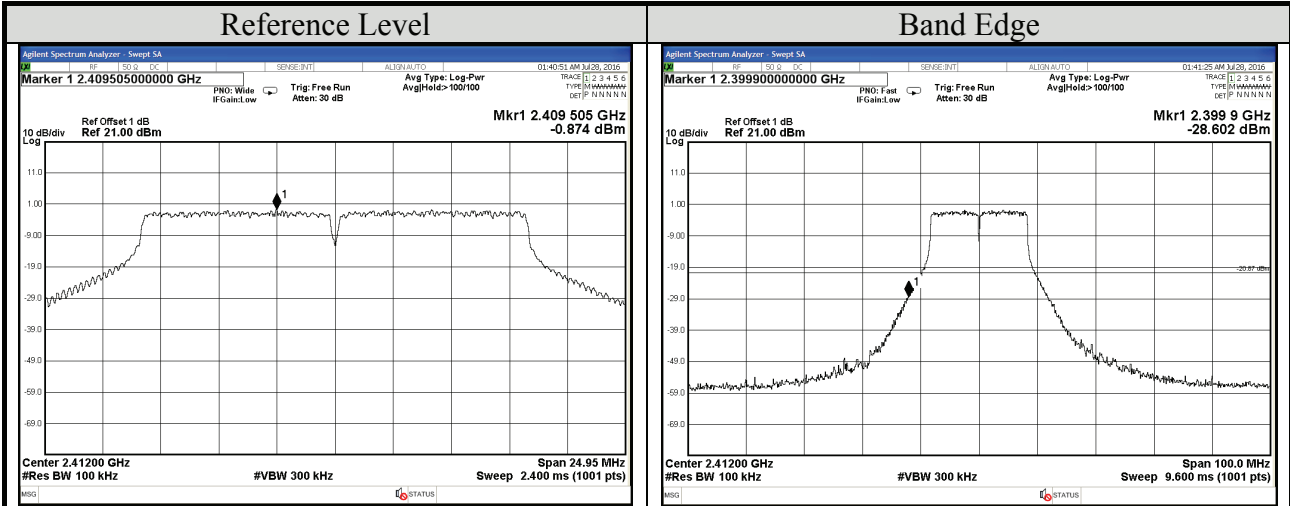
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|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.3V |
| Mode | 802.11b | Frequency | TX 2437MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | 0 |



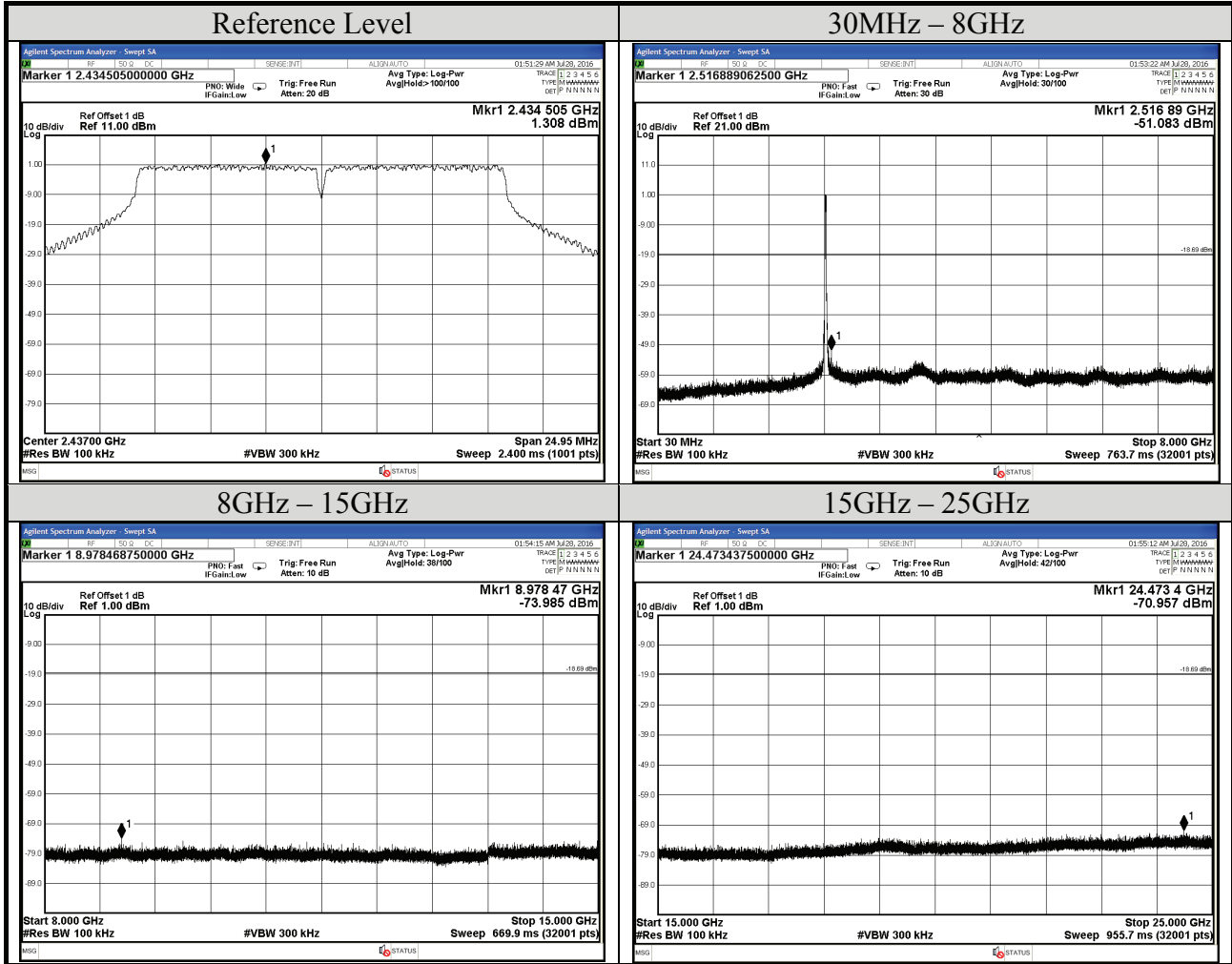
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|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11b | Frequency | TX 2462MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | 0 |



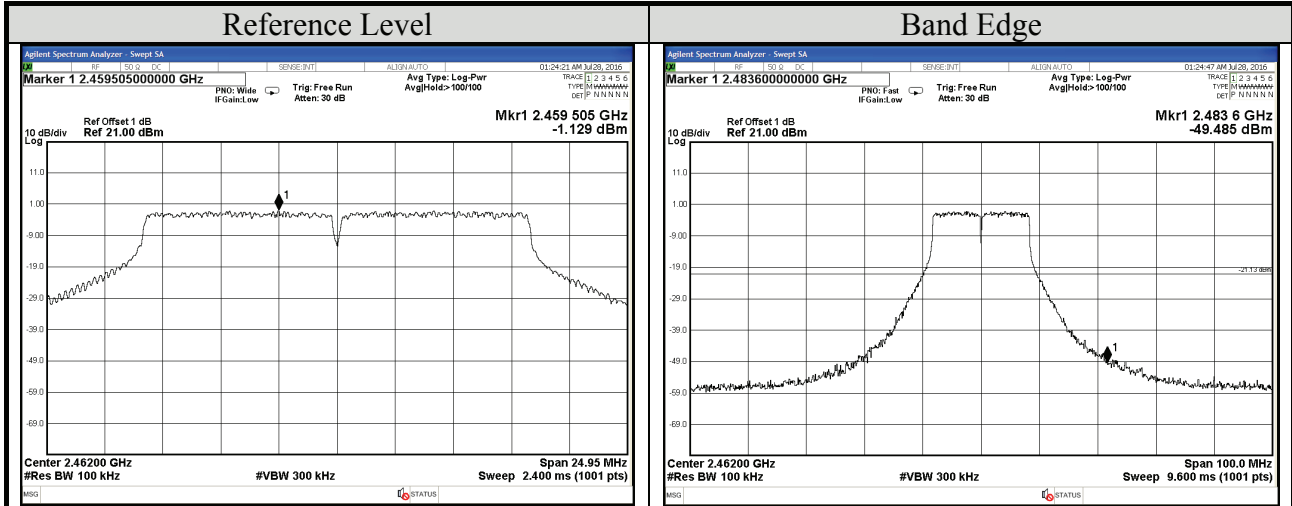
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|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11g | Frequency | TX 2412MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | 0 |



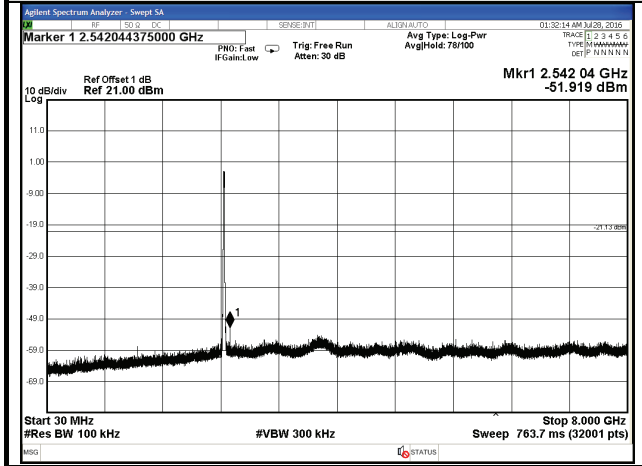
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|-------------------------------------------------------------|------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11g | Frequency | TX 2437MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



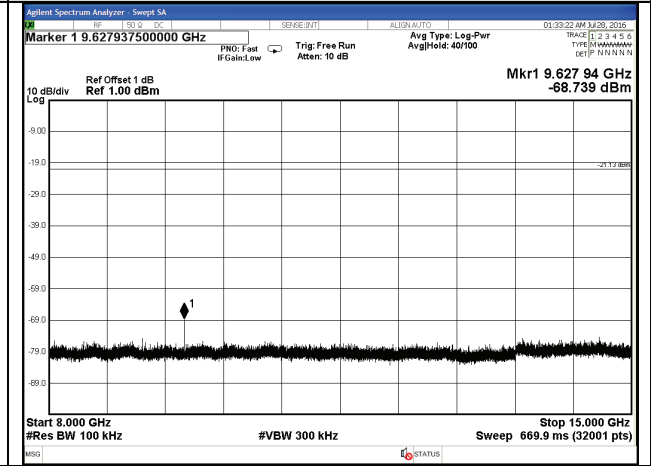
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|-------------------------------------------------------------|------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11g | Frequency | TX 2462MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



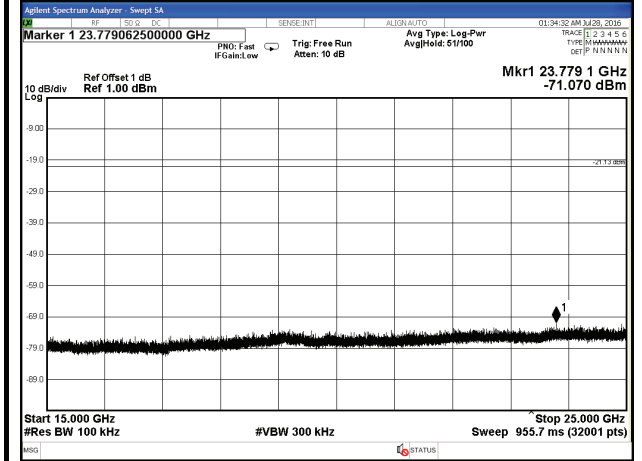
30MHz – 8GHz



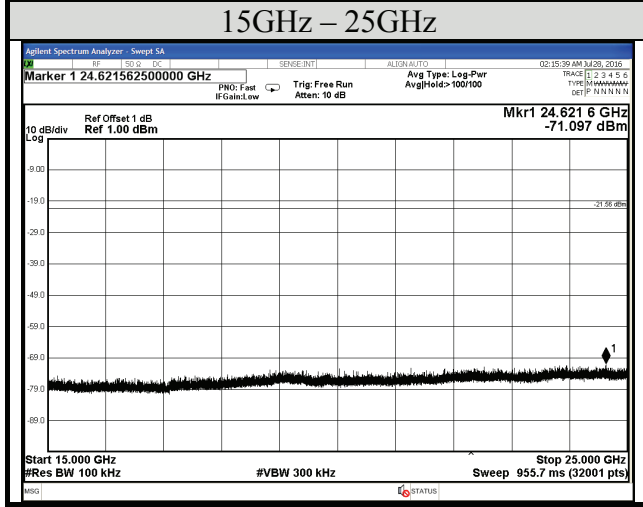
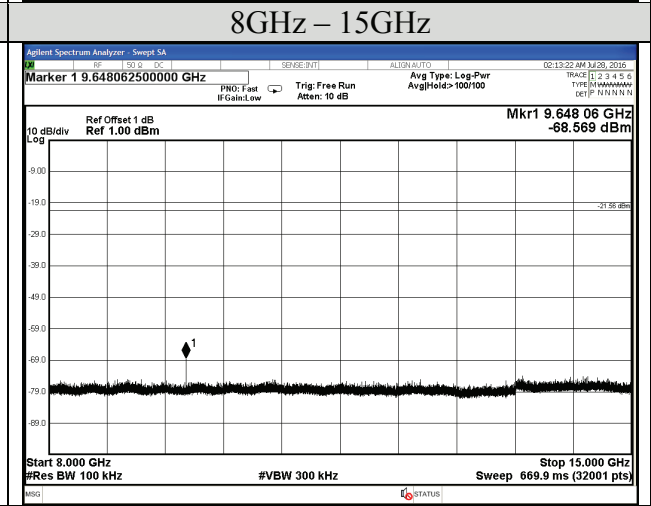
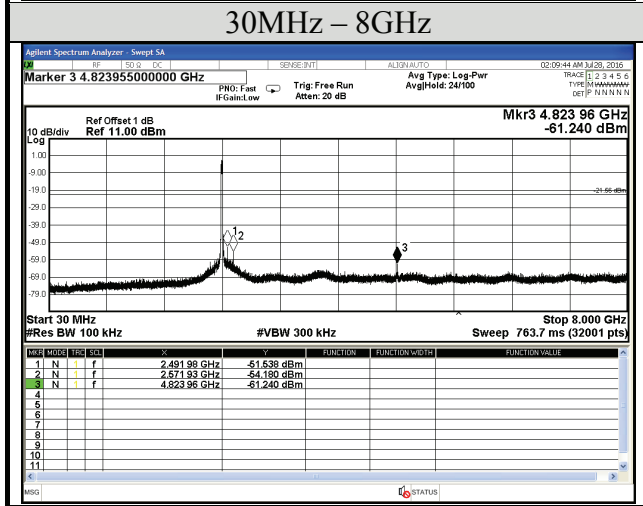
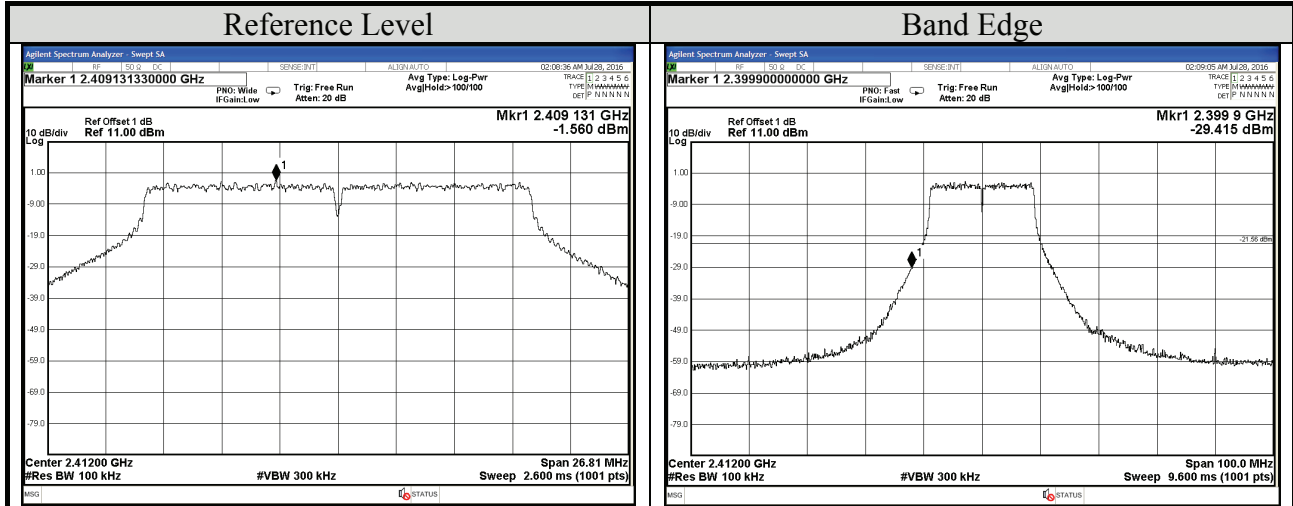
8GHz – 15GHz



15GHz – 25GHz



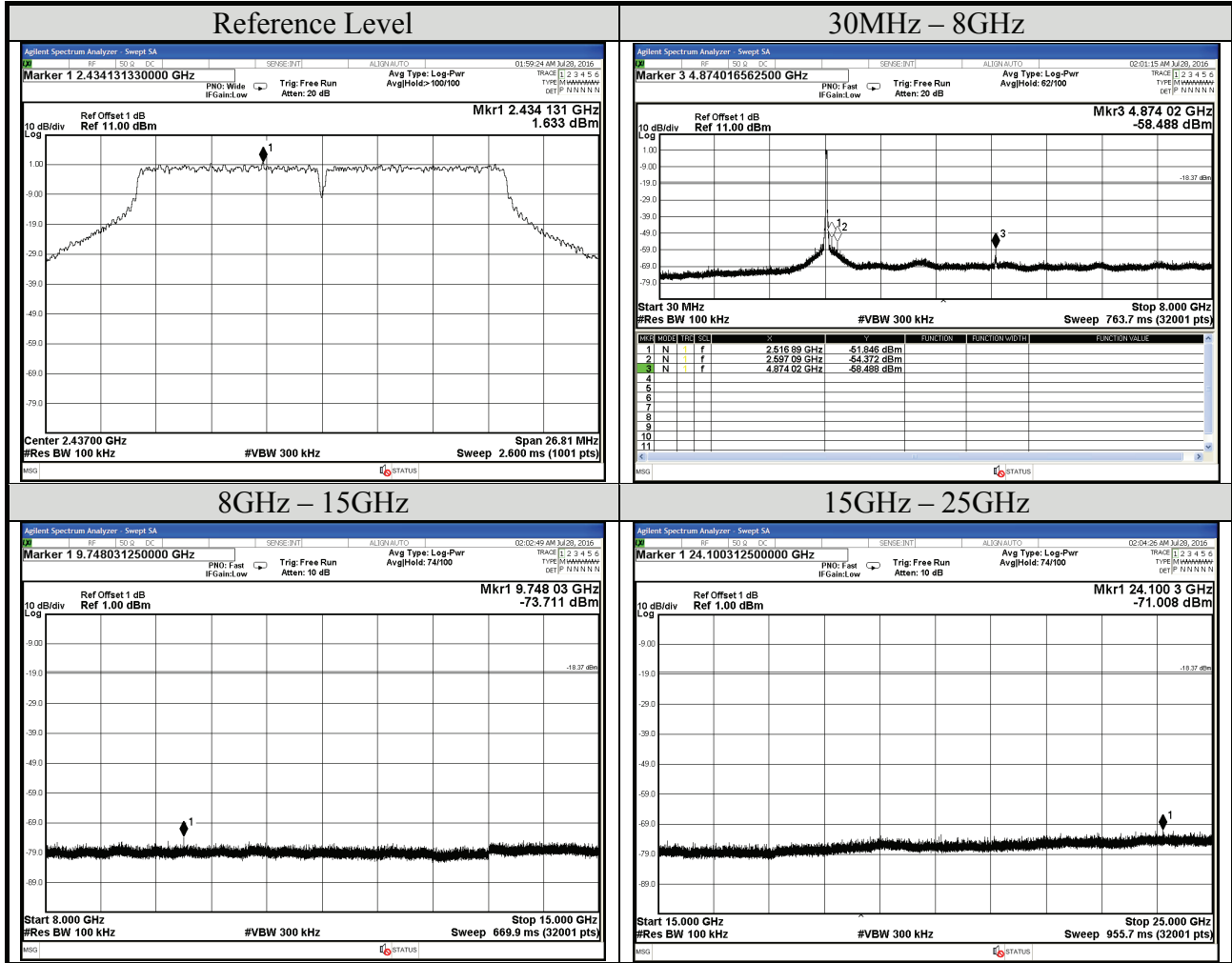
| | | | |
|-------------------------------------------------------------|--------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT20 | Frequency | TX 2412MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



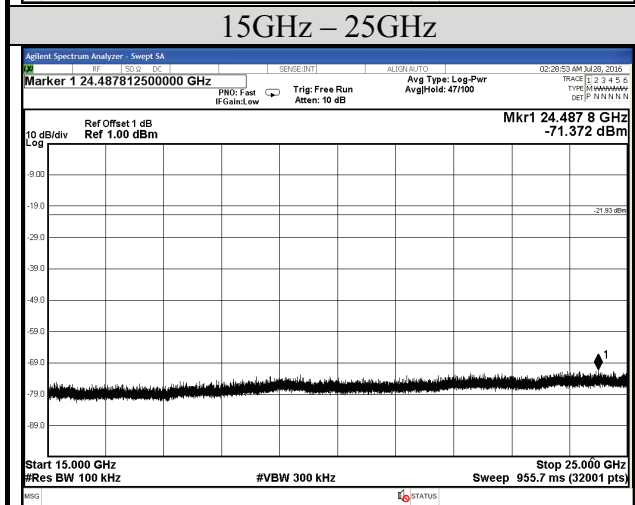
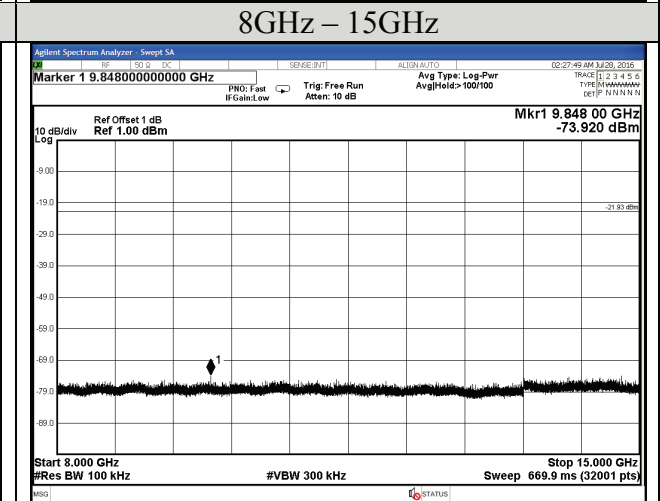
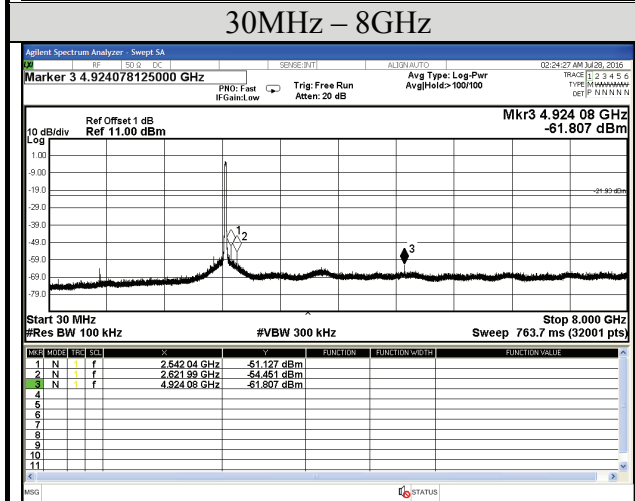
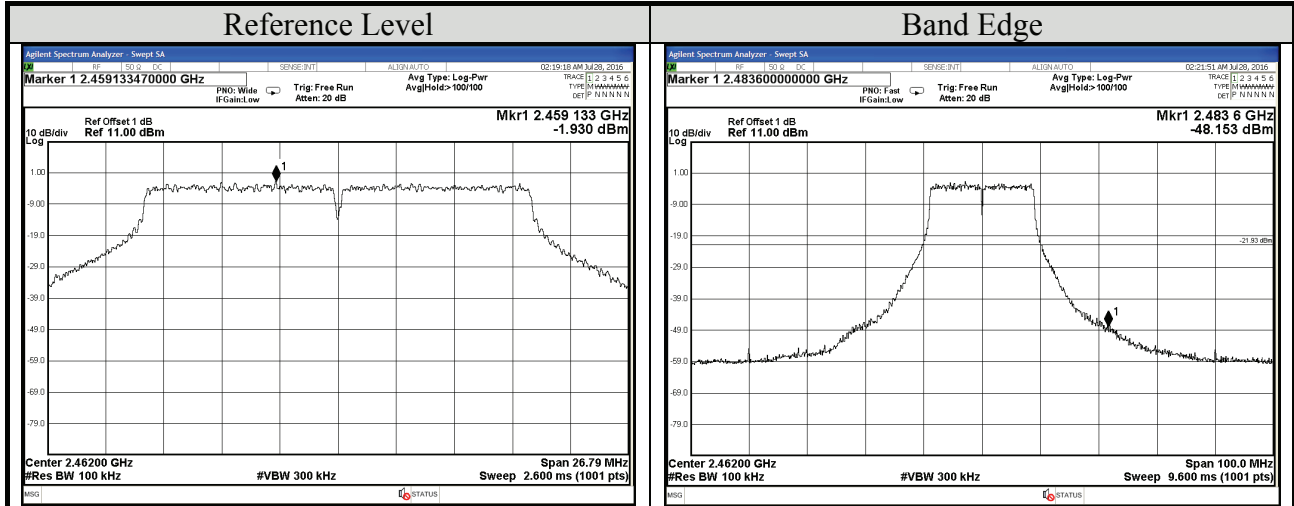
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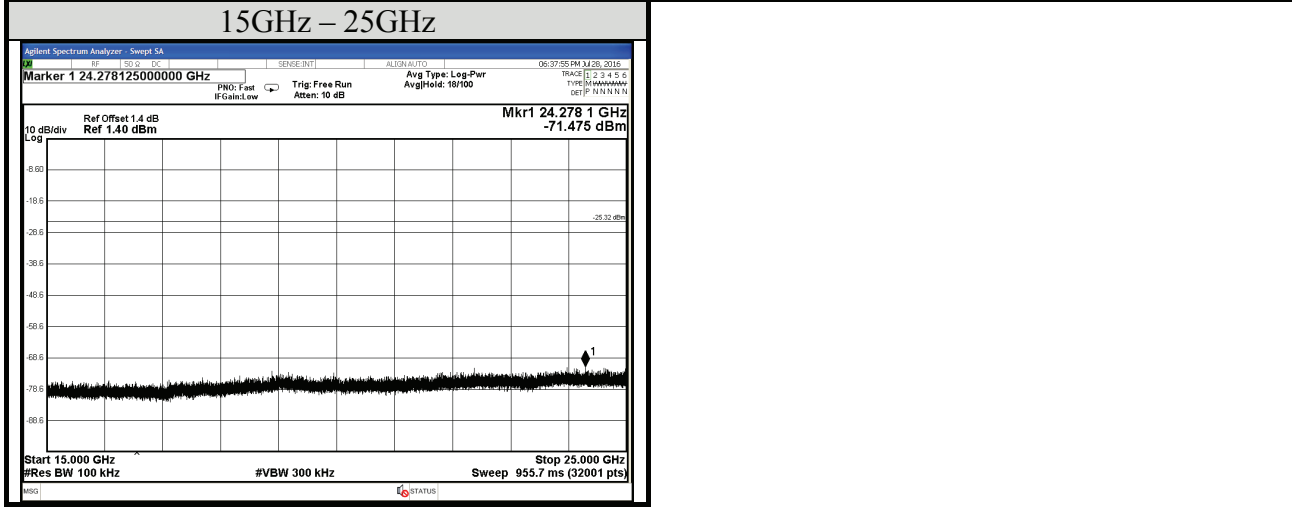
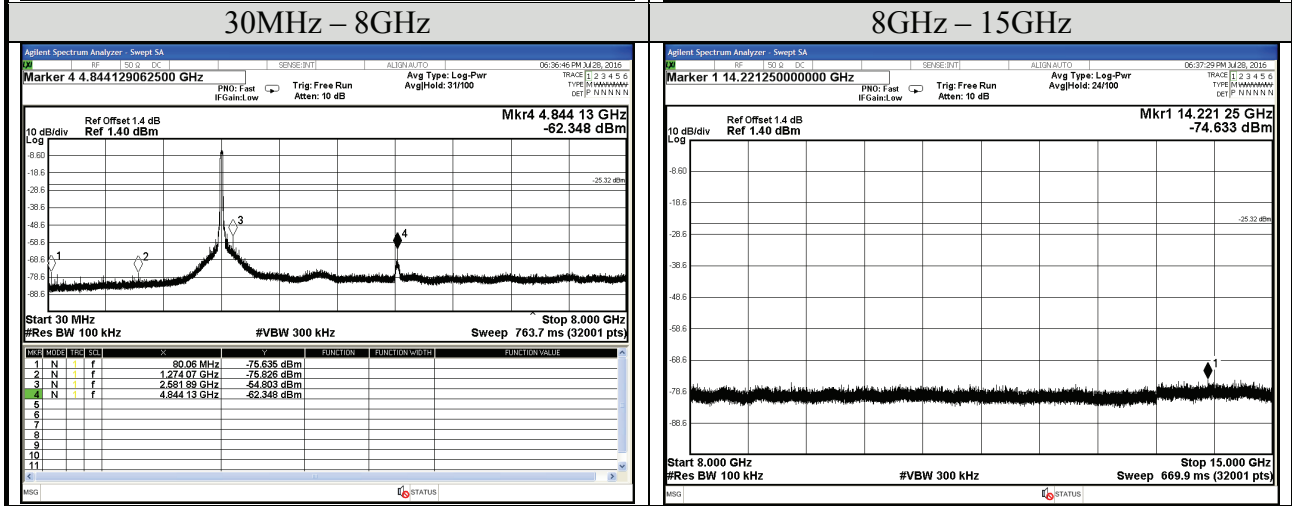
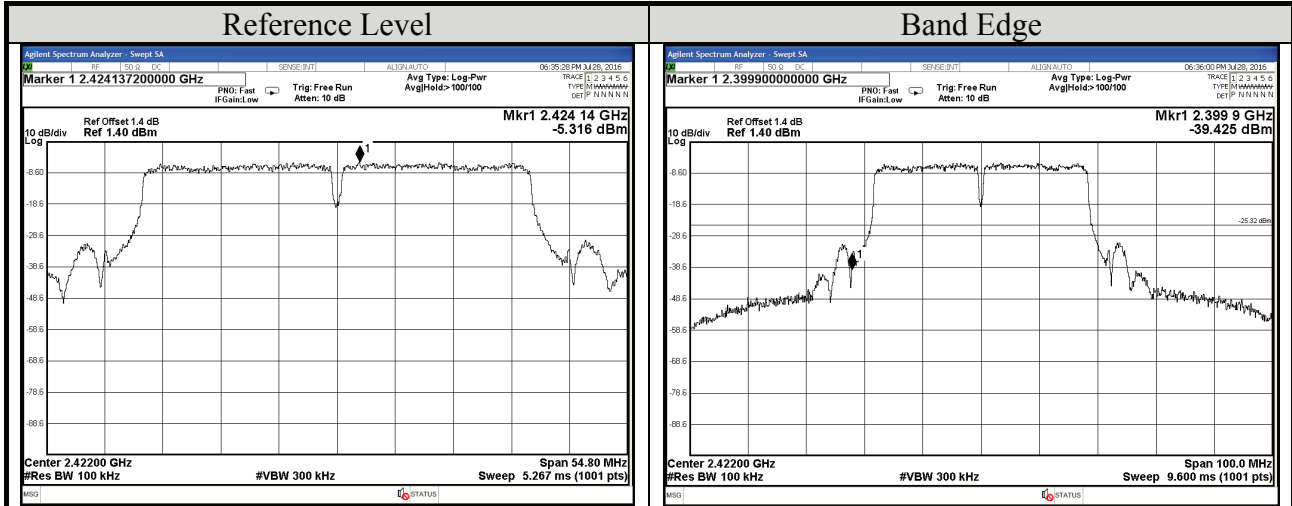
| | | | |
|-------------------------------------------------------------|--------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT20 | Frequency | TX 2437MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



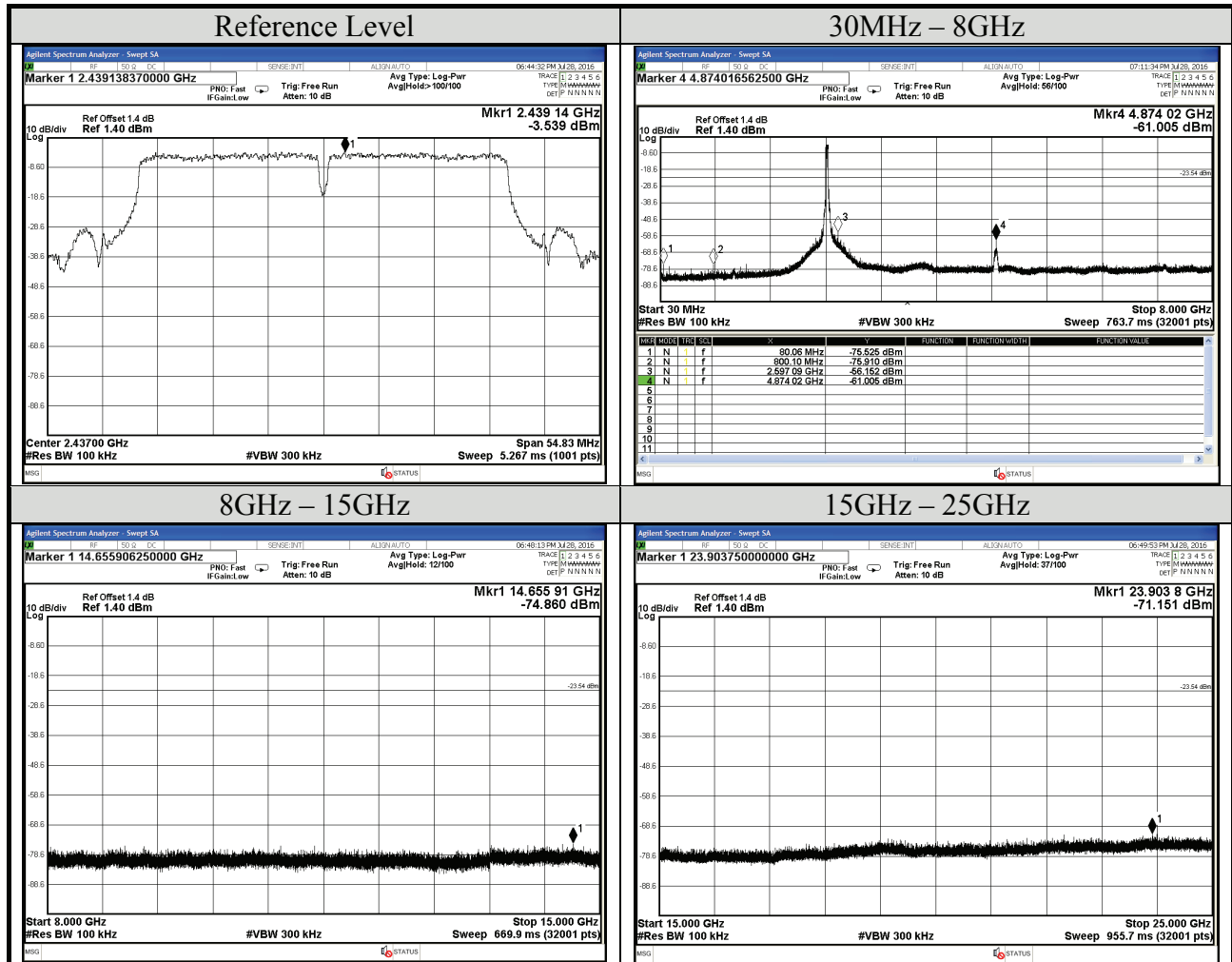
| | | | |
|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT20 | Frequency | TX 2462MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | 0 |



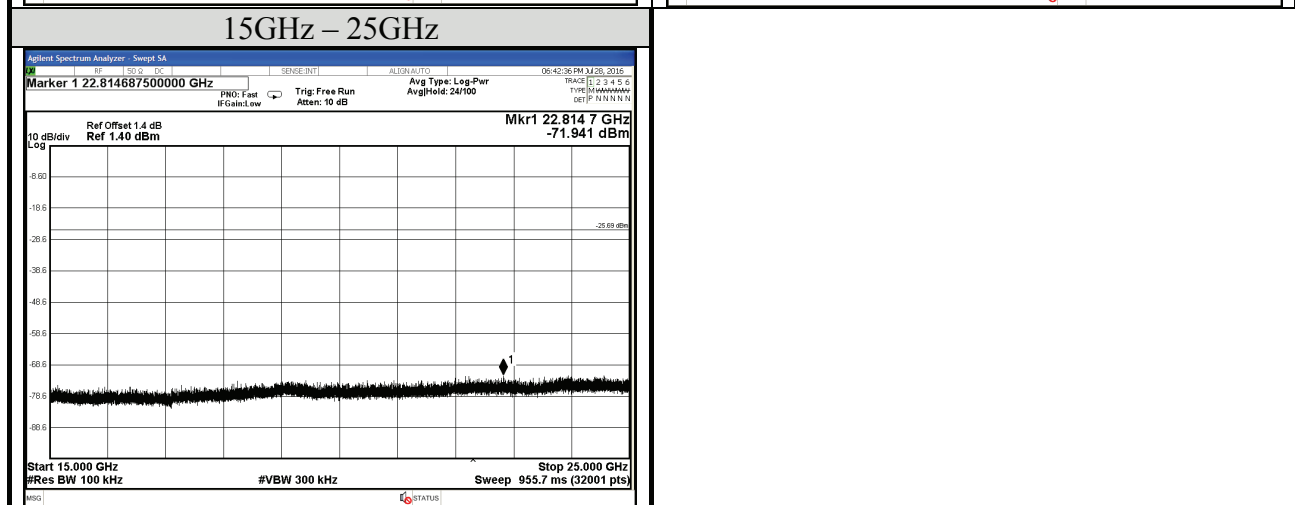
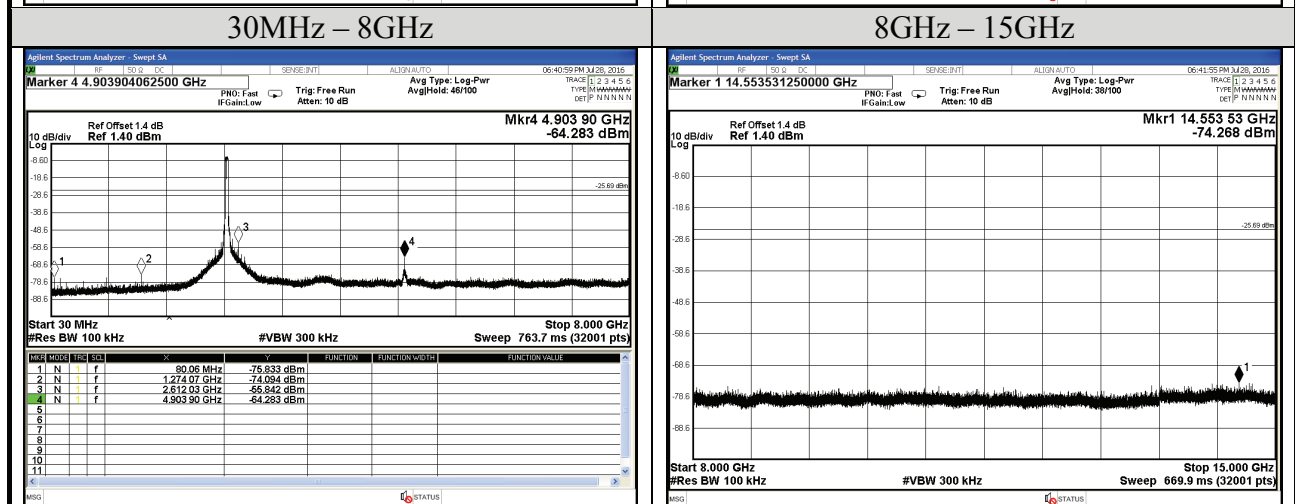
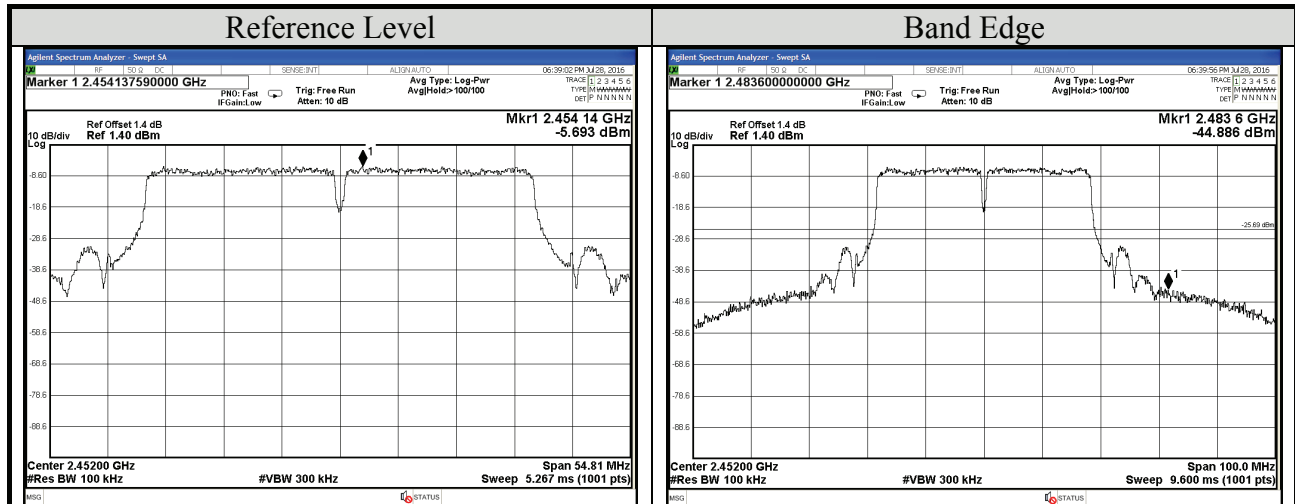
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|-------------------------------------------------------------|--------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT40 | Frequency | TX 2422MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



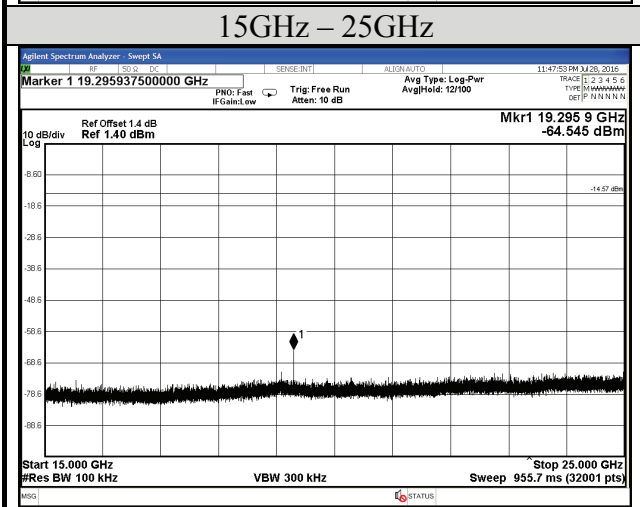
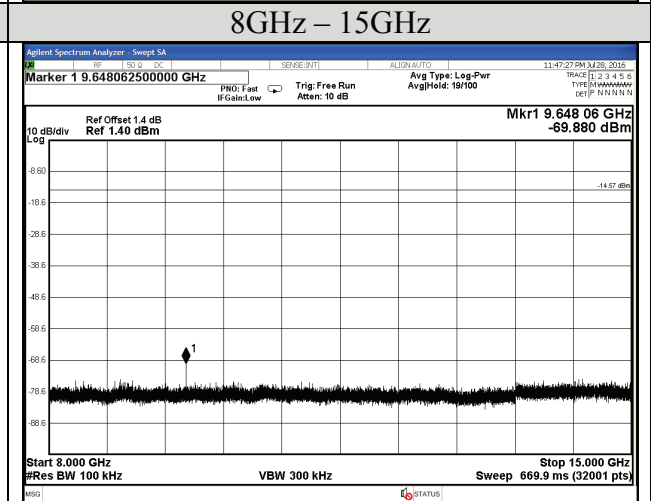
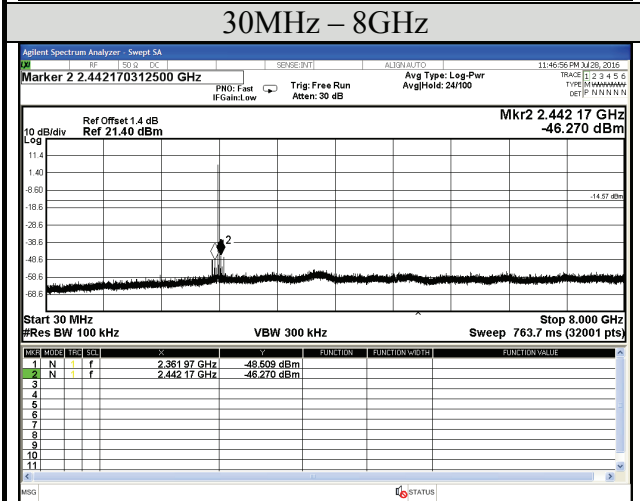
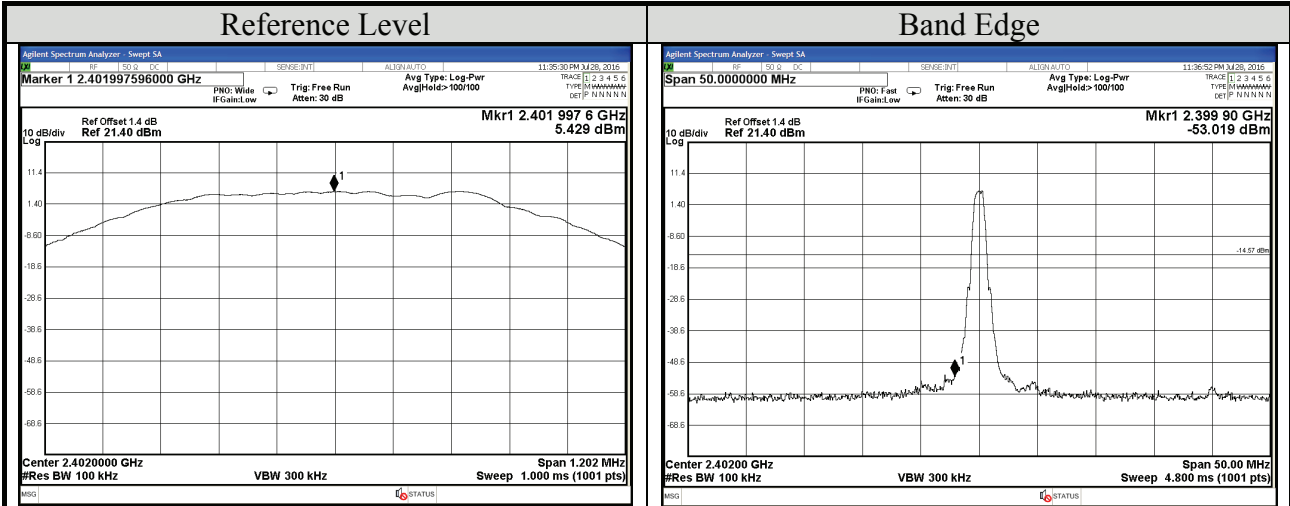
| | | | |
|-------------------------------------------------------------|--------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT40 | Frequency | TX 2437MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



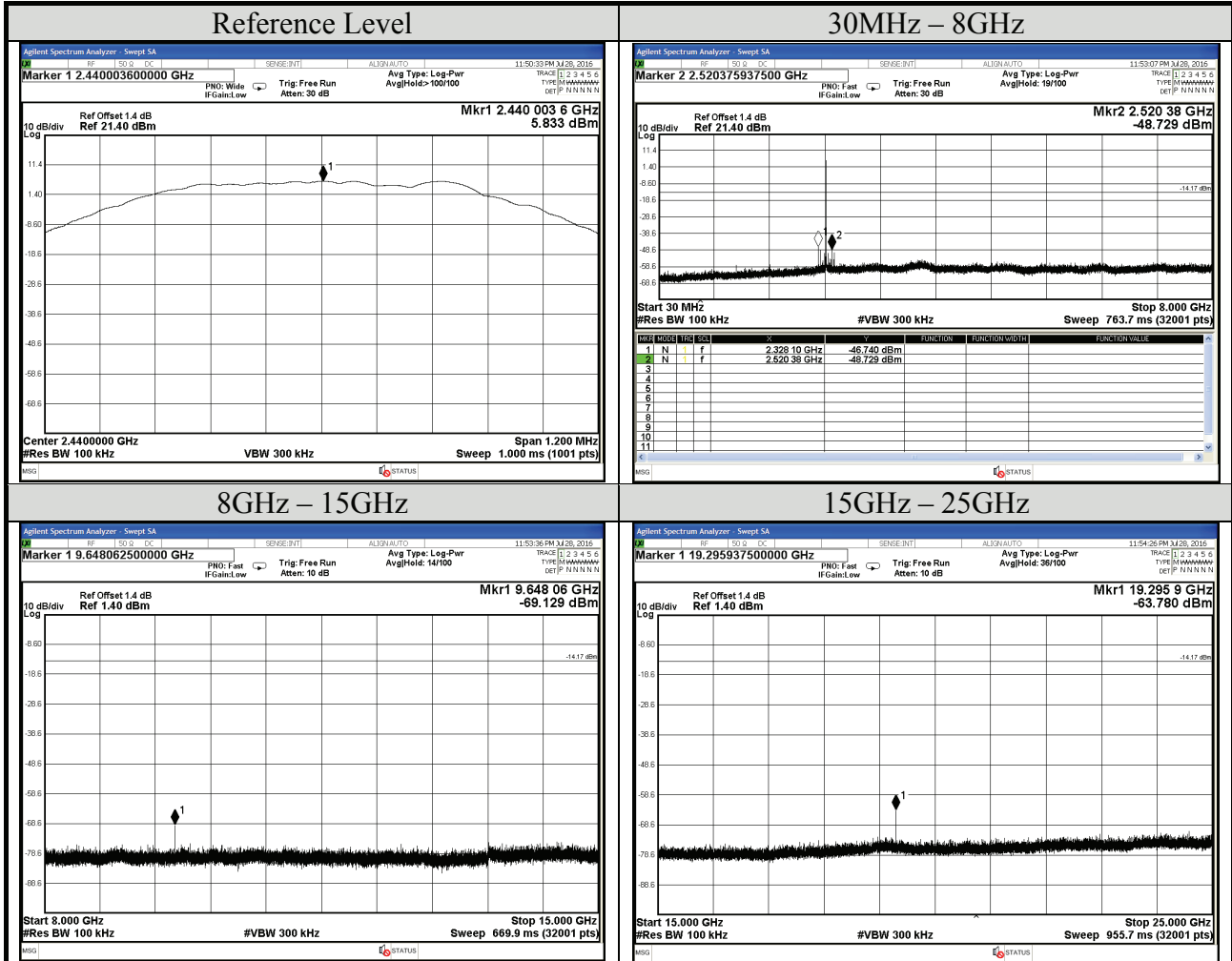
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|-------------------------------------------------------------|--------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.7V |
| Mode | 802.11n-HT40 | Frequency | TX 2452MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | 0 |



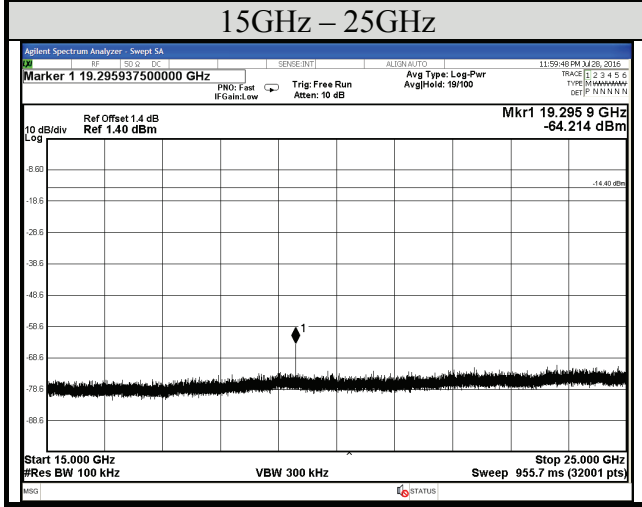
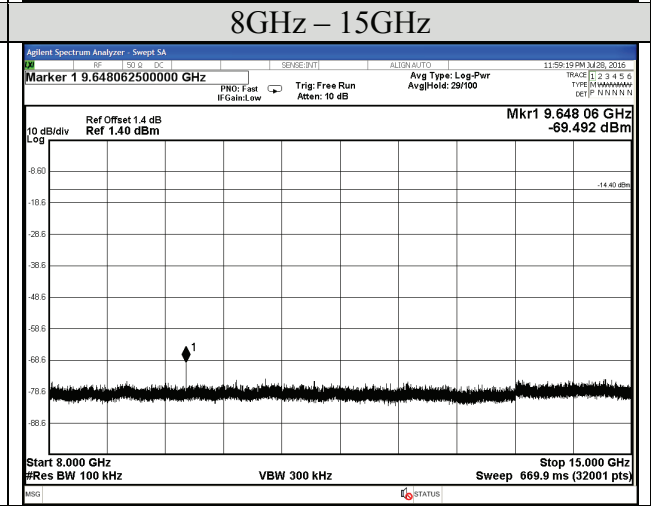
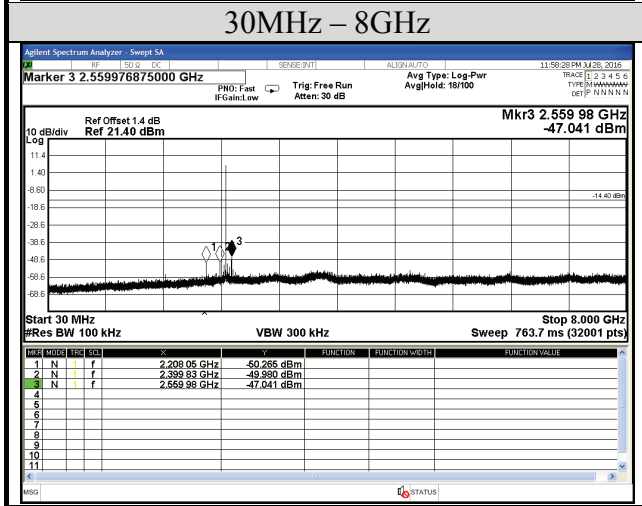
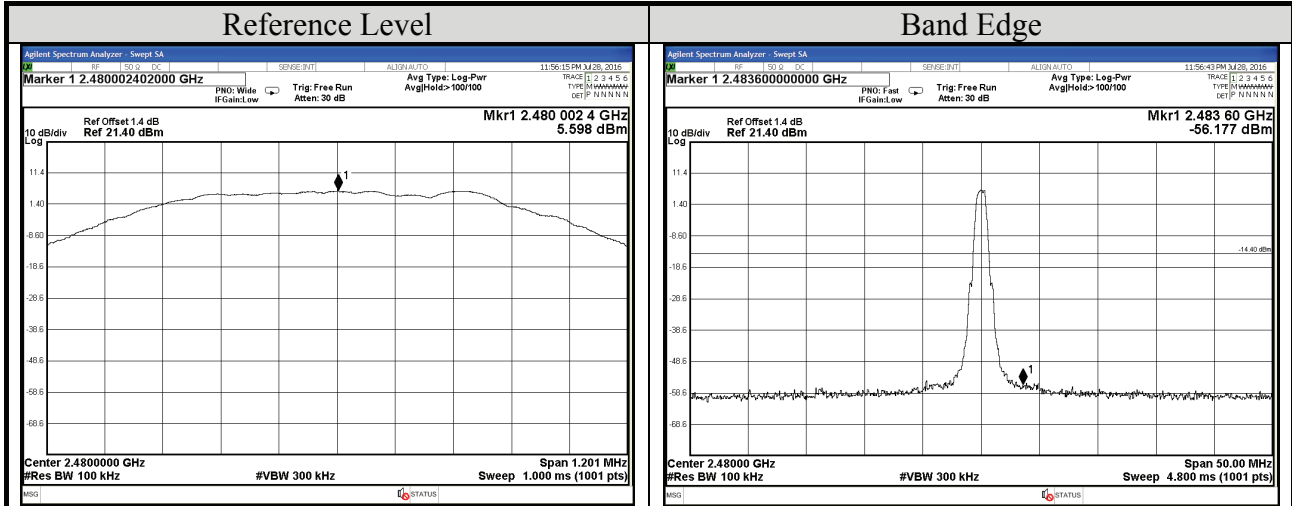
| | | | |
|---------------------|-----------------------------------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.7V |
| Mode | BLE | Frequency | TX 2402MHz |
| Simultaneous Factor | 10 log(n) (Note: "n" is antenna number) | | N/A |



| | | | |
|-------------------------------------------------------------|------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.3V |
| Mode | BLE | Frequency | TX 2440MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | N/A |



| | | | |
|-------------------------------------------------------------|------------|--------------|------------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 1.4dB | Test Voltage | DC 3.7V |
| Mode | BLE | Frequency | TX 2480MHz |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | N/A |



A.4 POWER SPECTRAL DENSITY

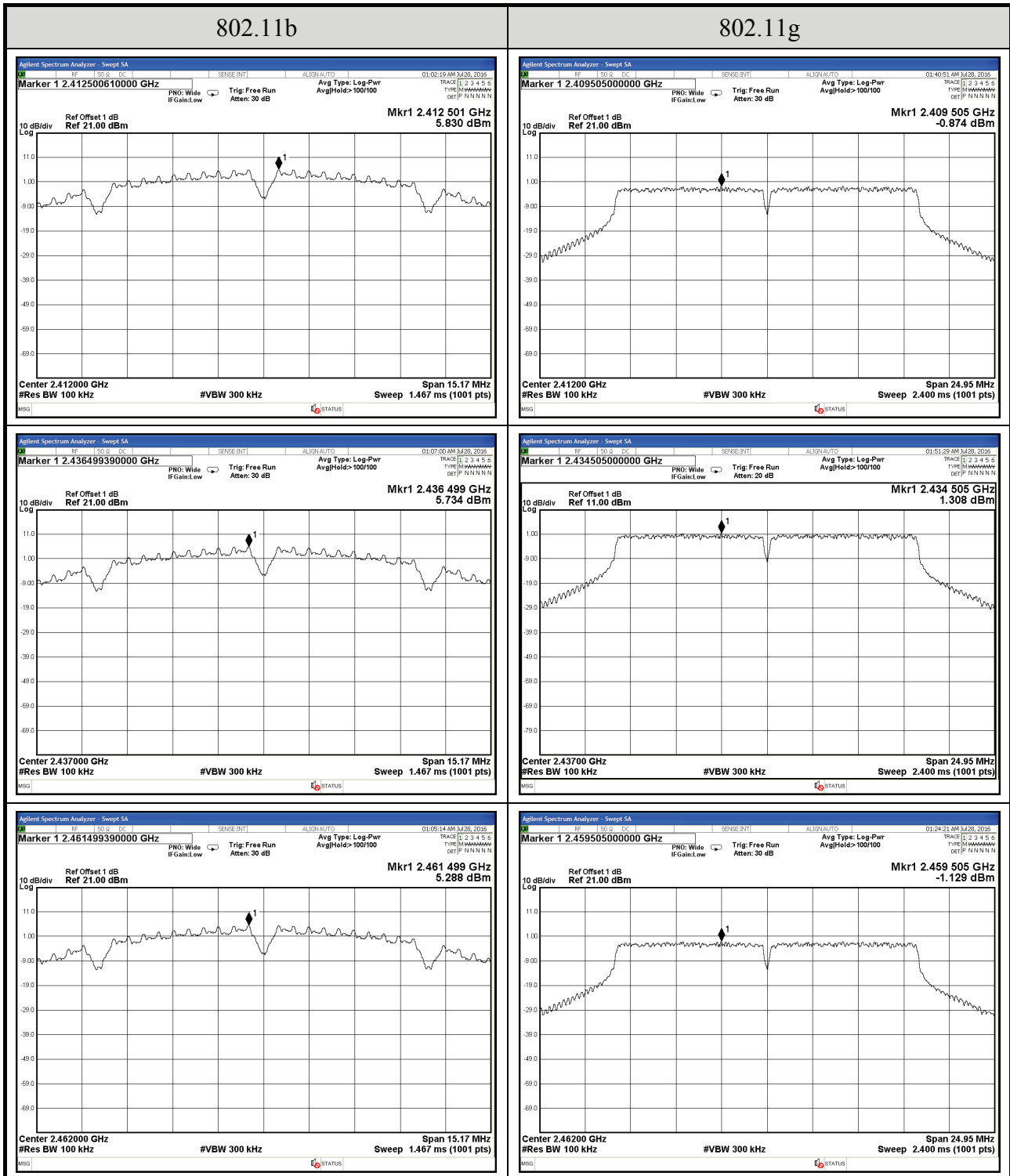
| | | | |
|-------------------------------------------------------------|--------------------------------------------------|--------------|----------|
| Test Date | 2016/07/28 | Temp./Hum. | 25°C/58% |
| Cable Loss | 802.11b/g/n-HT20: 1dB 802.11n-HT40/BLE: 1.4dB | Test Voltage | DC 3.7V |
| Simultaneous Factor 10 log(n) (Note: "n" is antenna number) | | | N/A |

A.4.1 Power Spectral Density Result

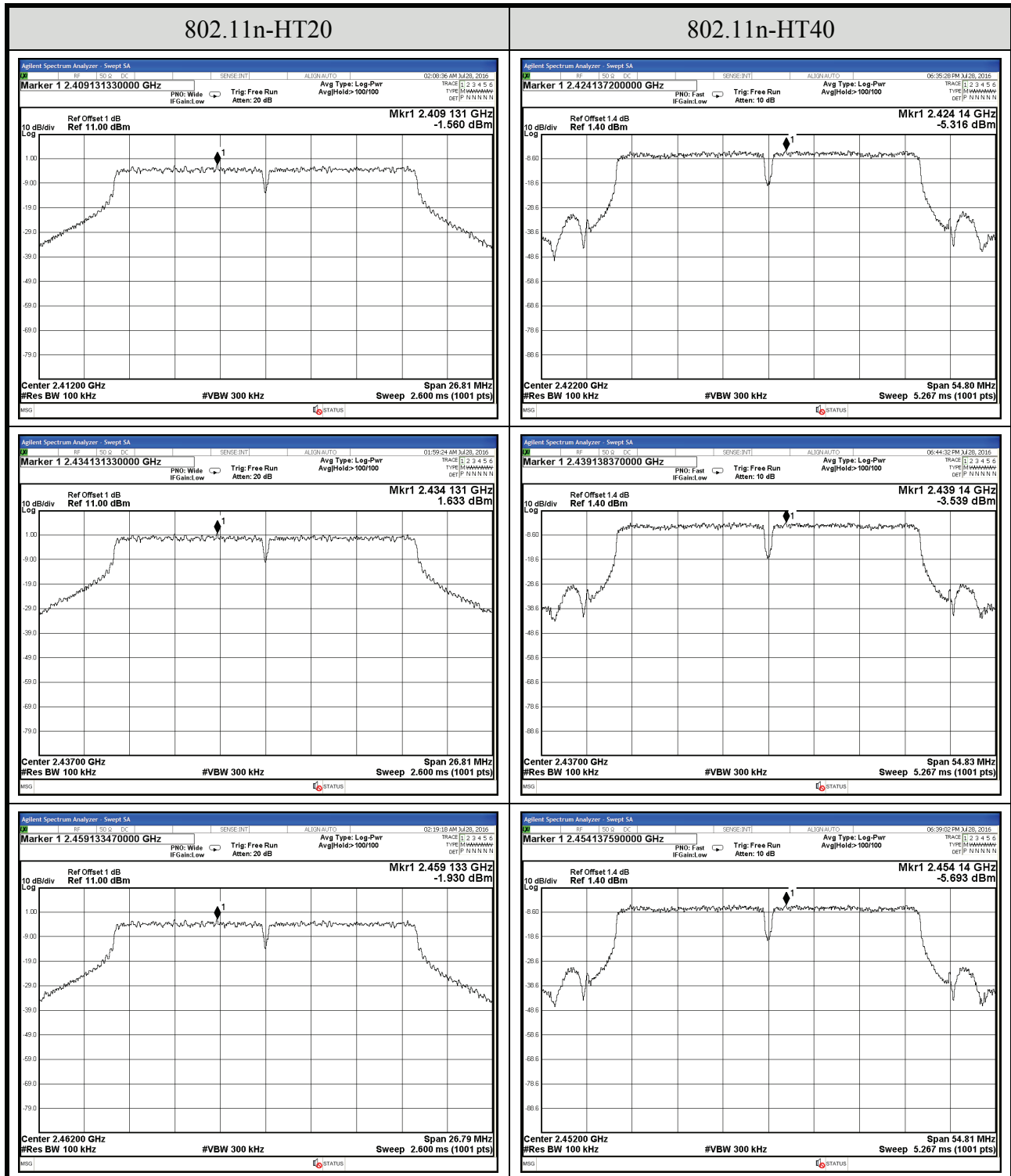
| Modulation Type | Centre Frequency (MHz) | Power Spectral Density (dBm) | Limit |
|-----------------|------------------------|------------------------------|--------------|
| 802.11b | 2412 | 5.830 | < 8 dBm/3kHz |
| | 2437 | 5.734 | |
| | 2462 | 5.288 | |
| 802.11g | 2412 | -0.874 | |
| | 2437 | 1.308 | |
| | 2462 | -1.129 | |
| 802.11n-HT20 | 2412 | -1.560 | |
| | 2437 | 1.633 | |
| | 2462 | -1.930 | |
| 802.11n-HT40 | 2422 | -5.316 | |
| | 2437 | -3.539 | |
| | 2452 | -5.693 | |
| BLE | 2402 | 5.429 | |
| | 2440 | 5.833 | |
| | 2480 | 5.598 | |

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

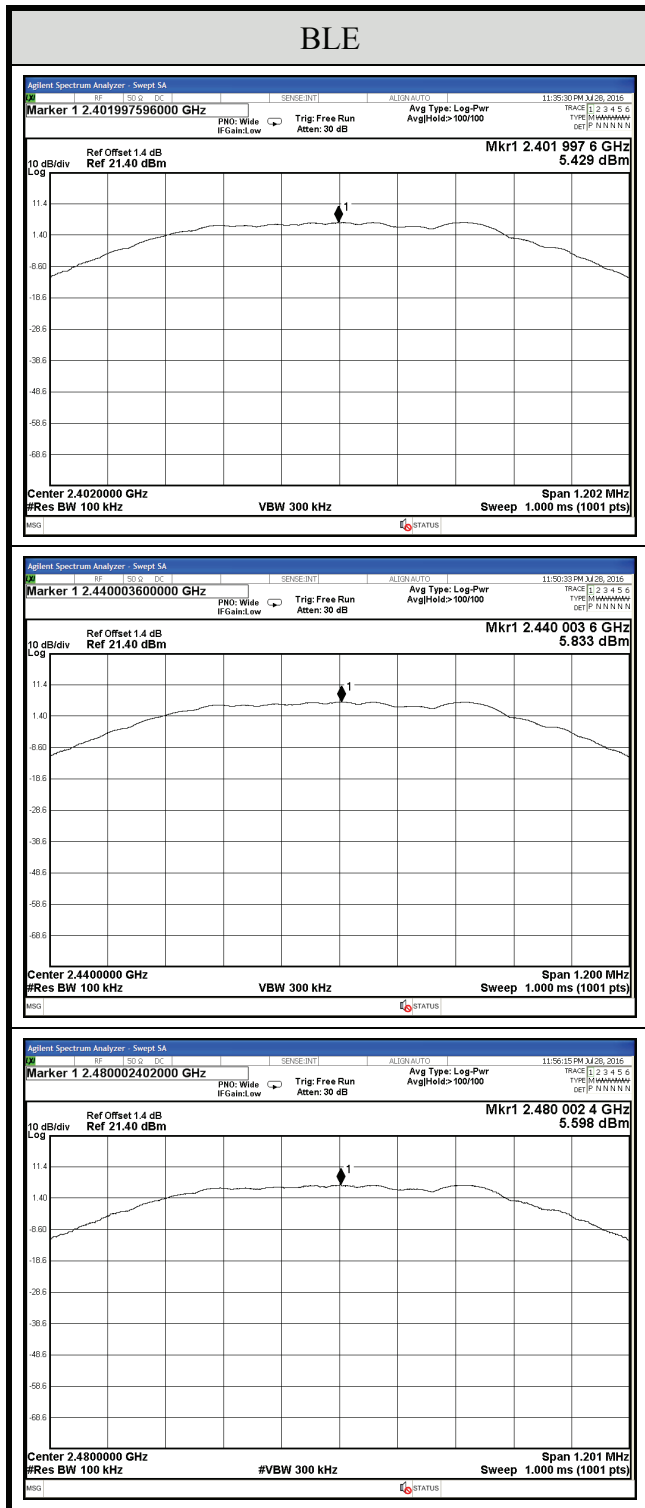
A.4.2 Measurement Plots



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.