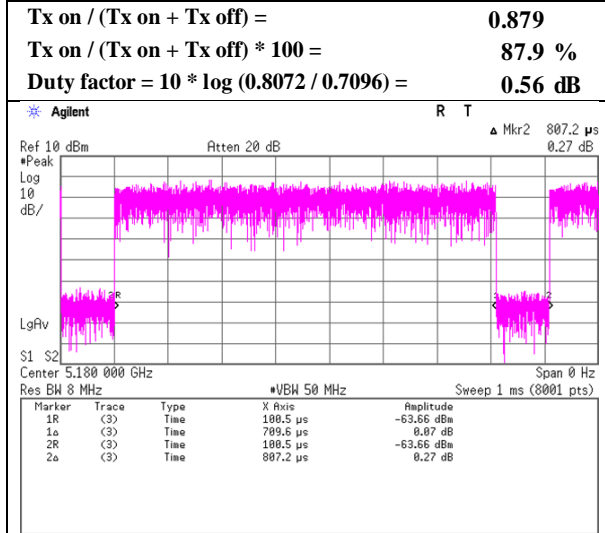


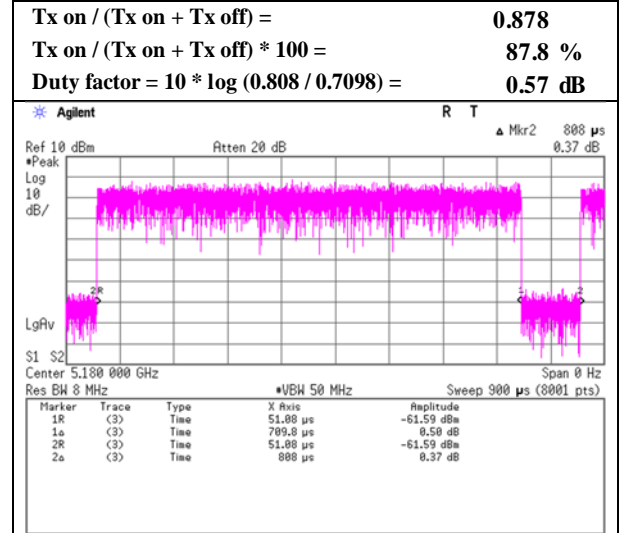
Burst rate confirmation

| | | |
|------------------------|------------------------------------|---------------------|
| Report No. | 13462774S-C-R2 | |
| Test place | Shonan EMC Lab. No.5 Shielded Room | |
| Date | September 1, 2020 | September 2, 2020 |
| Temperature / Humidity | 24 deg. C / 50 % RH | 23 deg. C / 52 % RH |
| Engineer | Shiro Kobayashi | Toshinori Yamada |
| Mode | Tx | |

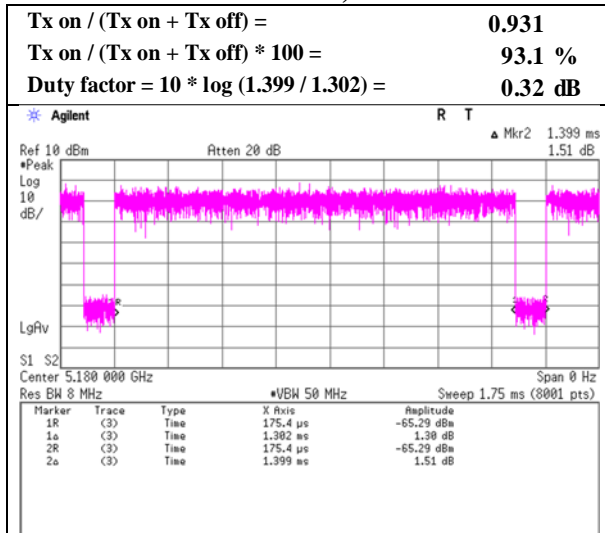
11a SISO, 12 Mbps



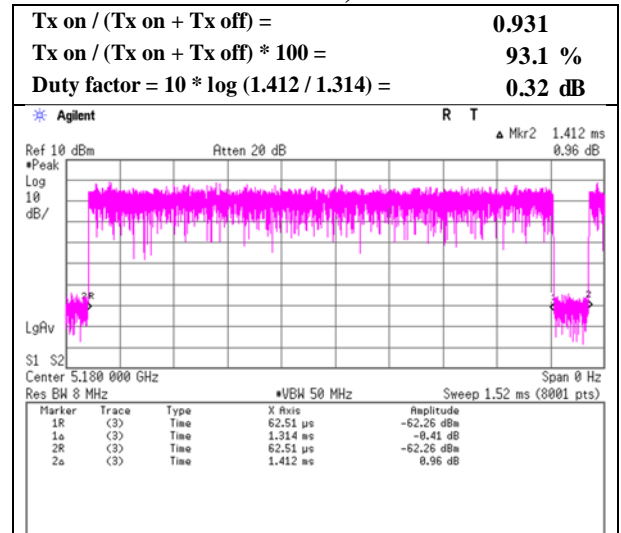
11a CDD, 12 Mbps



11n-20 SISO, MCS 0



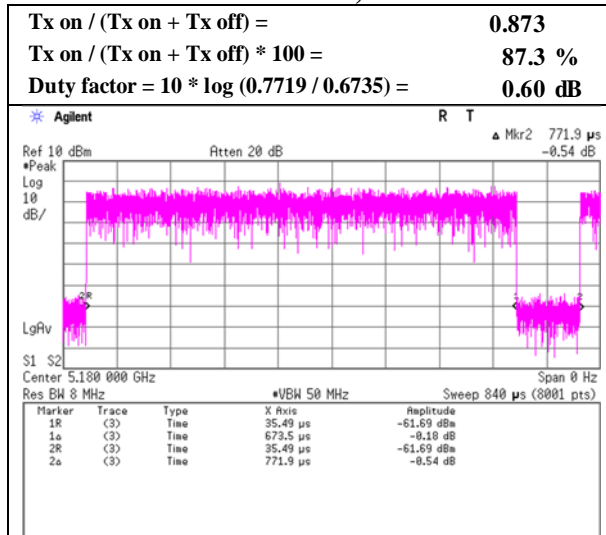
11n-20 CDD, MCS 0



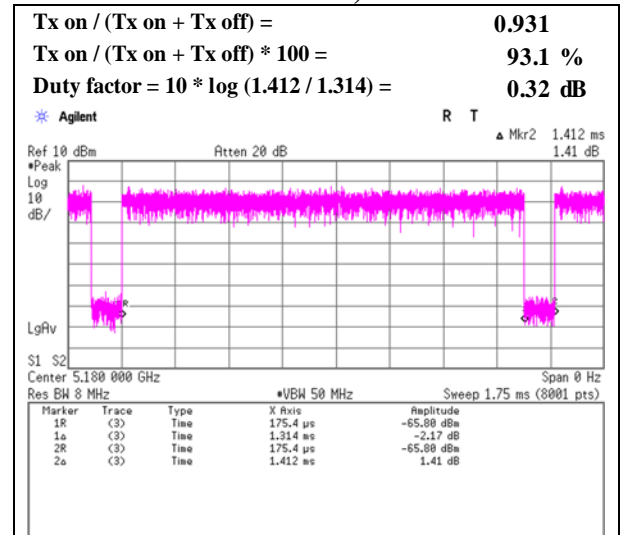
Burst rate confirmation

| | | |
|------------------------|------------------------------------|---------------------|
| Report No. | 13462774S-C-R2 | |
| Test place | Shonan EMC Lab. No.5 Shielded Room | |
| Date | September 1, 2020 | September 2, 2020 |
| Temperature / Humidity | 24 deg. C / 50 % RH | 23 deg. C / 52 % RH |
| Engineer | Shiro Kobayashi | Toshinori Yamada |
| Mode | Tx | |

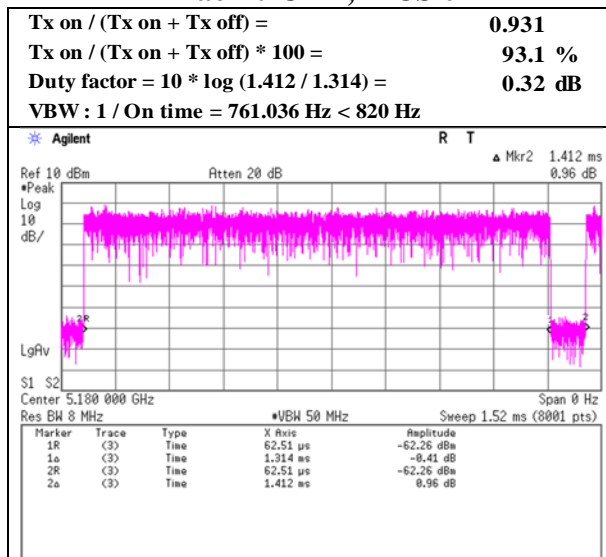
11n-20 MIMO, MCS 8



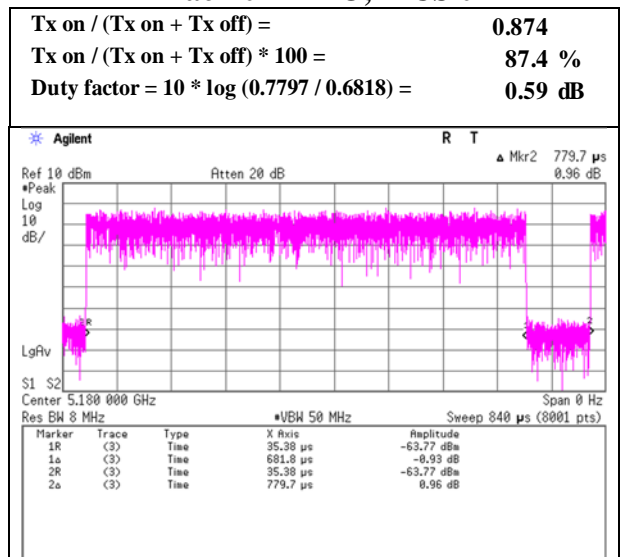
11ac-20 SISO, MCS 0



11ac-20 CDD, MCS 0



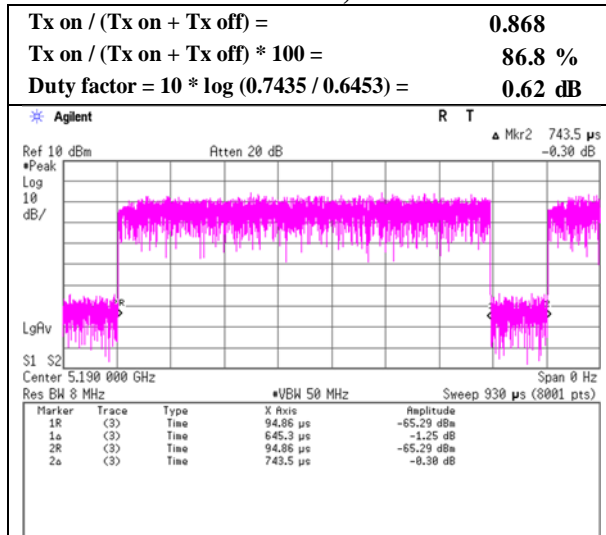
11ac-20 MIMO, MCS 0



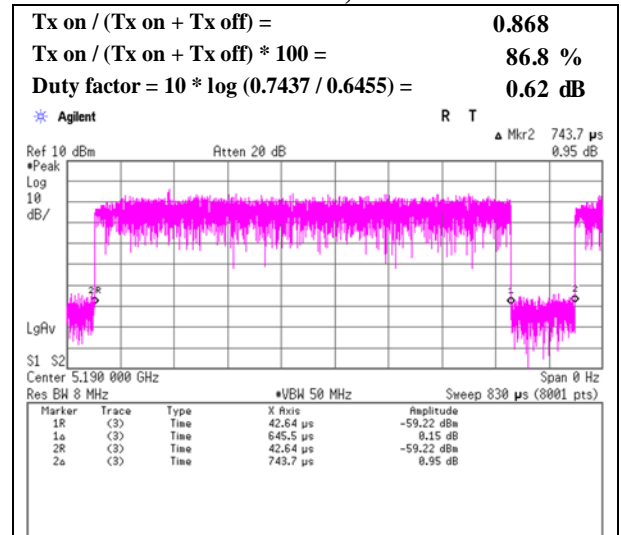
Burst rate confirmation

| | | |
|------------------------|------------------------------------|---------------------|
| Report No. | 13462774S-C-R2 | |
| Test place | Shonan EMC Lab. No.5 Shielded Room | |
| Date | September 1, 2020 | September 2, 2020 |
| Temperature / Humidity | 24 deg. C / 50 % RH | 23 deg. C / 52 % RH |
| Engineer | Shiro Kobayashi | Toshinori Yamada |
| Mode | Tx | |

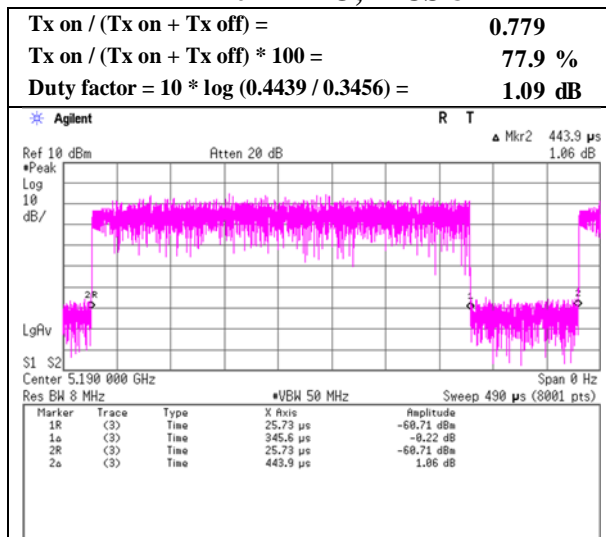
11n-40 SISO, MCS 0



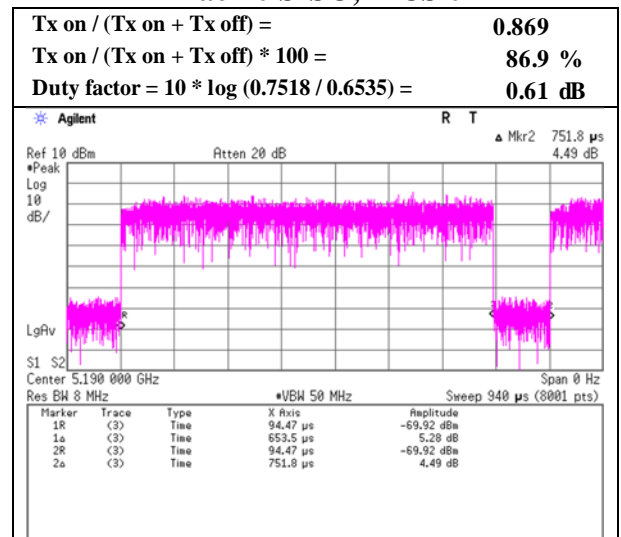
11n-40 CDD, MCS 0



11n-40 MIMO, MCS 8



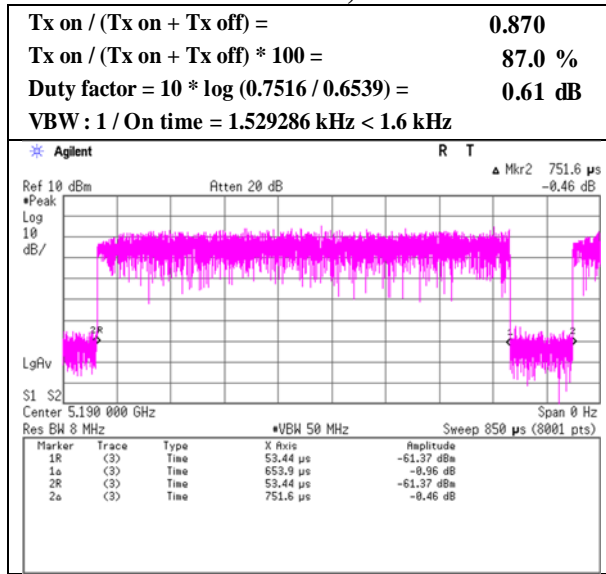
11ac-40 SISO, MCS 0



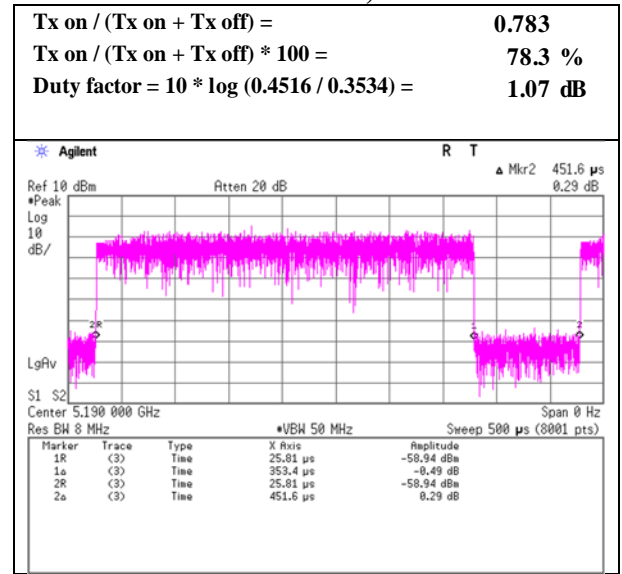
Burst rate confirmation

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 1, 2020
Temperature / Humidity 24 deg. C / 50 % RH
Engineer Shiro Kobayashi
Mode Tx Toshinori Yamada

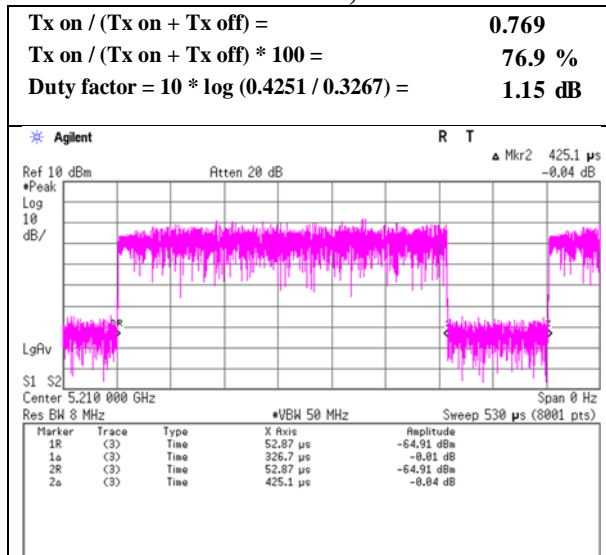
11ac-40 CDD, MCS 7



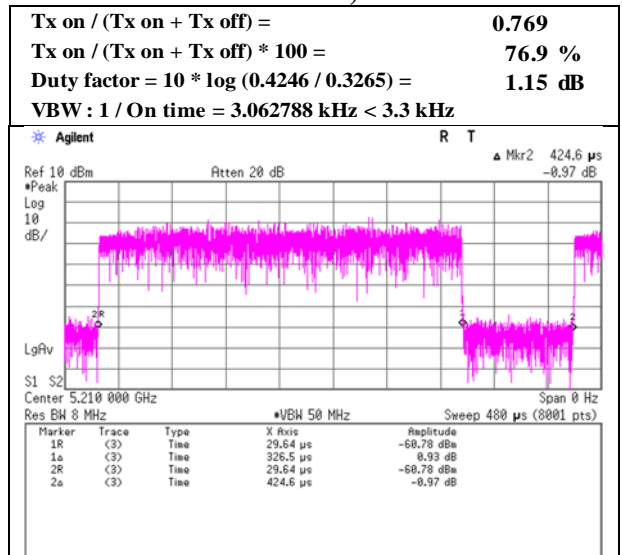
11ac-40 MIMO, MCS 7



11ac-80 SISO, MCS 9



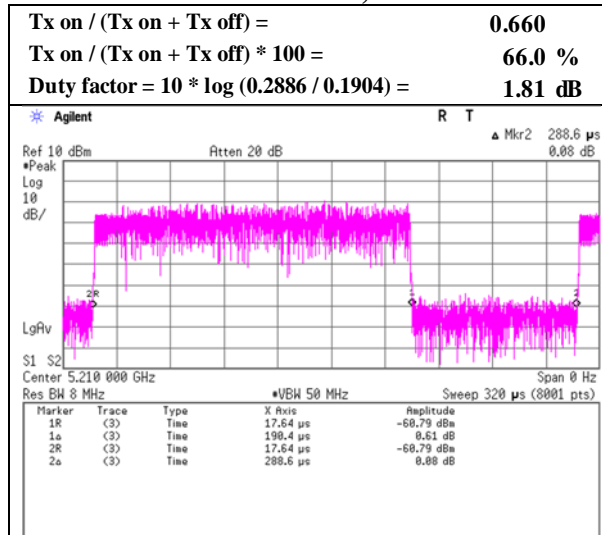
11ac-80 CDD, MCS 9



Burst rate confirmation

Report No. 13462774S-C-R2
 Test place Shonan EMC Lab. No.5 Shielded Room
 Date September 1, 2020
 Temperature / Humidity 24 deg. C / 50 % RH
 Engineer Shiro Kobayashi
 Mode Tx

11ac-80 MIMO, MCS 7



Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato

11a SISO, RF0

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|--------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-------------------------|------------------------|----------------|-------------------------|------------------------|----------------|
| | | | | | | | Result [dBm /MHz] | Limit [dBm /MHz] | Margin [dB] | Result [dBm /MHz] | Limit [dBm /MHz] | Margin [dB] |
| 5180 | -19.70 | 3.35 | 9.87 | 0.56 | -1.25 | 0.00 | -5.92 | 11.00 | 16.92 | -7.17 | 17.00 | 24.17 |
| 5220 | -19.27 | 3.36 | 9.87 | 0.56 | -1.25 | 0.00 | -5.48 | 11.00 | 16.48 | -6.73 | 17.00 | 23.73 |
| 5240 | -18.87 | 3.36 | 9.88 | 0.56 | -1.25 | 0.00 | -5.07 | 11.00 | 16.07 | -6.32 | 17.00 | 23.32 |
| 5745 | -31.42 | 3.59 | 9.89 | 0.56 | 0.24 | 6.99 | -10.39 | 30.00 | 40.39 | -10.15 | 36.00 | 46.15 |
| 5785 | -31.49 | 3.60 | 9.89 | 0.56 | 0.24 | 6.99 | -10.45 | 30.00 | 40.45 | -10.21 | 36.00 | 46.21 |
| 5825 | -31.85 | 3.61 | 9.89 | 0.56 | 0.24 | 6.99 | -10.80 | 30.00 | 40.80 | -10.56 | 36.00 | 46.56 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

11a SISO, RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|--------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-------------------------|------------------------|----------------|-------------------------|------------------------|----------------|
| | | | | | | | Result [dBm /MHz] | Limit [dBm /MHz] | Margin [dB] | Result [dBm /MHz] | Limit [dBm /MHz] | Margin [dB] |
| 5180 | -21.17 | 3.36 | 9.93 | 0.56 | 0.33 | 0.00 | -7.32 | 11.00 | 18.32 | -6.99 | 17.00 | 23.99 |
| 5220 | -19.74 | 3.37 | 9.93 | 0.56 | 0.33 | 0.00 | -5.88 | 11.00 | 16.88 | -5.55 | 17.00 | 22.55 |
| 5240 | -20.43 | 3.37 | 9.93 | 0.56 | 0.33 | 0.00 | -6.57 | 11.00 | 17.57 | -6.24 | 17.00 | 23.24 |
| 5745 | -28.95 | 3.60 | 9.93 | 0.56 | 0.01 | 6.99 | -7.87 | 30.00 | 37.87 | -7.86 | 36.00 | 43.86 |
| 5785 | -29.18 | 3.61 | 9.93 | 0.56 | 0.01 | 6.99 | -8.09 | 30.00 | 38.09 | -8.08 | 36.00 | 44.08 |
| 5825 | -29.86 | 3.61 | 9.93 | 0.56 | 0.01 | 6.99 | -8.77 | 30.00 | 38.77 | -8.76 | 36.00 | 44.76 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

UL Japan, Inc.

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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11a CDD

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5180 | 0.27 | 0.20 | 0.48 | -3.19 | 11.00 | 14.19 | 0.59 | 0.44 | 1.04 | 0.15 | 17.00 | 16.85 |
| 5220 | 0.29 | 0.24 | 0.53 | -2.78 | 11.00 | 13.78 | 0.62 | 0.52 | 1.14 | 0.56 | 17.00 | 16.44 |
| 5240 | 0.33 | 0.25 | 0.58 | -2.36 | 11.00 | 13.36 | 0.71 | 0.54 | 1.25 | 0.98 | 17.00 | 16.02 |
| 5745 | 0.09 | 0.17 | 0.26 | -5.82 | 30.00 | 35.82 | 0.19 | 0.36 | 0.55 | -2.57 | 36.00 | 38.57 |
| 5785 | 0.09 | 0.16 | 0.26 | -5.91 | 30.00 | 35.91 | 0.20 | 0.34 | 0.54 | -2.66 | 36.00 | 38.66 |
| 5825 | 0.08 | 0.14 | 0.23 | -6.41 | 30.00 | 36.41 | 0.18 | 0.31 | 0.48 | -3.16 | 36.00 | 39.16 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | RF1 | | | | PSD Result | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|------------------|-----------|------------|-------------|------------------|------------|-----------|-------|-------|
| | | | Reading | Cable Loss | Atten. Loss | Directional Gain | Reading | Cable Loss | Atten. Loss | Directional Gain | Cond. | e.i.r.p. | | |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | | |
| 5180 | 0.57 | 0.00 | -19.40 | 3.35 | 9.87 | 3.34 | -5.61 | -2.27 | -20.74 | 3.36 | 9.93 | 3.34 | -6.88 | -3.54 |
| 5220 | 0.57 | 0.00 | -19.22 | 3.36 | 9.87 | 3.34 | -5.42 | -2.08 | -20.05 | 3.37 | 9.93 | 3.34 | -6.18 | -2.84 |
| 5240 | 0.57 | 0.00 | -18.62 | 3.36 | 9.88 | 3.34 | -4.81 | -1.47 | -19.87 | 3.37 | 9.93 | 3.34 | -6.00 | -2.66 |
| 5745 | 0.57 | 6.99 | -31.42 | 3.59 | 9.89 | 3.25 | -10.38 | -7.13 | -28.78 | 3.60 | 9.93 | 3.25 | -7.69 | -4.44 |
| 5785 | 0.57 | 6.99 | -31.28 | 3.60 | 9.89 | 3.25 | -10.23 | -6.97 | -29.02 | 3.61 | 9.93 | 3.25 | -7.92 | -4.67 |
| 5825 | 0.57 | 6.99 | -31.84 | 3.61 | 9.89 | 3.25 | -10.78 | -7.52 | -29.49 | 3.61 | 9.93 | 3.25 | -8.39 | -5.14 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = $G_{ANT}(\text{Antenna Gain}) + \text{Array Gain}$

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11n-20 SISO

11n-20 SISO, RF0

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|--------------------------|-------------------------|----------------|--------------------------|-------------------------|----------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5180 | -20.01 | 3.35 | 9.87 | 0.32 | -1.25 | 0.00 | -6.47 | 11.00 | 17.47 | -7.72 | 17.00 | 24.72 |
| 5220 | -19.41 | 3.36 | 9.87 | 0.32 | -1.25 | 0.00 | -5.86 | 11.00 | 16.86 | -7.11 | 17.00 | 24.11 |
| 5240 | -19.40 | 3.36 | 9.88 | 0.32 | -1.25 | 0.00 | -5.84 | 11.00 | 16.84 | -7.09 | 17.00 | 24.09 |
| 5745 | -31.61 | 3.59 | 9.89 | 0.32 | 0.24 | 6.99 | -10.82 | 30.00 | 40.82 | -10.58 | 36.00 | 46.58 |
| 5785 | -31.67 | 3.60 | 9.89 | 0.32 | 0.24 | 6.99 | -10.87 | 30.00 | 40.87 | -10.63 | 36.00 | 46.63 |
| 5825 | -31.89 | 3.61 | 9.89 | 0.32 | 0.24 | 6.99 | -11.08 | 30.00 | 41.08 | -10.84 | 36.00 | 46.84 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

11n-20 SISO, RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|--------------------------|-------------------------|----------------|--------------------------|-------------------------|----------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5180 | -20.87 | 3.36 | 9.93 | 0.32 | 0.33 | 0.00 | -7.26 | 11.00 | 18.26 | -6.93 | 17.00 | 23.93 |
| 5220 | -20.50 | 3.37 | 9.93 | 0.32 | 0.33 | 0.00 | -6.88 | 11.00 | 17.88 | -6.55 | 17.00 | 23.55 |
| 5240 | -20.39 | 3.37 | 9.93 | 0.32 | 0.33 | 0.00 | -6.77 | 11.00 | 17.77 | -6.44 | 17.00 | 23.44 |
| 5745 | -28.48 | 3.60 | 9.93 | 0.32 | 0.01 | 6.99 | -7.64 | 30.00 | 37.64 | -7.63 | 36.00 | 43.63 |
| 5785 | -29.31 | 3.61 | 9.93 | 0.32 | 0.01 | 6.99 | -8.46 | 30.00 | 38.46 | -8.45 | 36.00 | 44.45 |
| 5825 | -29.63 | 3.61 | 9.93 | 0.32 | 0.01 | 6.99 | -8.78 | 30.00 | 38.78 | -8.77 | 36.00 | 44.77 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

UL Japan, Inc.

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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11n-20 CDD

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5180 | 0.24 | 0.22 | 0.46 | -3.35 | 11.00 | 14.35 | 0.53 | 0.47 | 1.00 | -0.01 | 17.00 | 17.01 |
| 5220 | 0.26 | 0.21 | 0.47 | -3.26 | 11.00 | 14.26 | 0.56 | 0.46 | 1.02 | 0.08 | 17.00 | 16.92 |
| 5240 | 0.31 | 0.22 | 0.53 | -2.72 | 11.00 | 13.72 | 0.68 | 0.48 | 1.15 | 0.62 | 17.00 | 16.38 |
| 5745 | 0.08 | 0.15 | 0.23 | -6.42 | 30.00 | 36.42 | 0.16 | 0.32 | 0.48 | -3.17 | 36.00 | 39.17 |
| 5785 | 0.08 | 0.14 | 0.22 | -6.53 | 30.00 | 36.53 | 0.17 | 0.30 | 0.47 | -3.28 | 36.00 | 39.28 |
| 5825 | 0.07 | 0.12 | 0.19 | -7.13 | 30.00 | 37.13 | 0.16 | 0.25 | 0.41 | -3.88 | 36.00 | 39.88 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | RF1 | | | | PSD Result | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|------------------|-----------|------------|-------------|------------------|------------|-----------|-------|-------|
| | | | Reading | Cable Loss | Atten. Loss | Directional Gain | Reading | Cable Loss | Atten. Loss | Directional Gain | Cond. | e.i.r.p. | | |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | | |
| 5180 | 0.32 | 0.00 | -19.66 | 3.35 | 9.87 | 3.34 | -6.12 | -2.78 | -20.23 | 3.36 | 9.93 | 3.34 | -6.62 | -3.28 |
| 5220 | 0.32 | 0.00 | -19.43 | 3.36 | 9.87 | 3.34 | -5.88 | -2.54 | -20.32 | 3.37 | 9.93 | 3.34 | -6.70 | -3.36 |
| 5240 | 0.32 | 0.00 | -18.60 | 3.36 | 9.88 | 3.34 | -5.04 | -1.69 | -20.18 | 3.37 | 9.93 | 3.34 | -6.56 | -3.22 |
| 5745 | 0.32 | 6.99 | -32.04 | 3.59 | 9.89 | 3.25 | -11.25 | -8.00 | -28.99 | 3.60 | 9.93 | 3.25 | -8.15 | -4.90 |
| 5785 | 0.32 | 6.99 | -31.73 | 3.60 | 9.89 | 3.25 | -10.93 | -7.68 | -29.35 | 3.61 | 9.93 | 3.25 | -8.50 | -5.24 |
| 5825 | 0.32 | 6.99 | -32.09 | 3.61 | 9.89 | 3.25 | -11.28 | -8.03 | -30.09 | 3.61 | 9.93 | 3.25 | -9.24 | -5.99 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = $G_{ANT}(Antenna\ Gain^{*1}) + Array\ Gain$

Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11n-20 MIMO

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5180 | 0.27 | 0.21 | 0.48 | -3.16 | 11.00 | 14.16 | 0.20 | 0.23 | 0.43 | -3.64 | 17.00 | 20.64 |
| 5220 | 0.28 | 0.21 | 0.49 | -3.06 | 11.00 | 14.06 | 0.21 | 0.23 | 0.44 | -3.56 | 17.00 | 20.56 |
| 5240 | 0.29 | 0.23 | 0.52 | -2.84 | 11.00 | 13.84 | 0.22 | 0.25 | 0.47 | -3.32 | 17.00 | 20.32 |
| 5745 | 0.08 | 0.17 | 0.26 | -5.88 | 30.00 | 35.88 | 0.09 | 0.18 | 0.26 | -5.79 | 36.00 | 41.79 |
| 5785 | 0.08 | 0.15 | 0.24 | -6.26 | 30.00 | 36.26 | 0.09 | 0.15 | 0.24 | -6.16 | 36.00 | 42.16 |
| 5825 | 0.08 | 0.13 | 0.21 | -6.71 | 30.00 | 36.71 | 0.09 | 0.13 | 0.22 | -6.61 | 36.00 | 42.61 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | RF1 | | | | | PSD Result | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|--------------|------------------|-----------|-----------|------------|-------------|--------------|------------------|-----------|
| | | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result Cond. | e.i.r.p. | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result Cond. | e.i.r.p. |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5180 | 0.60 | 0.00 | -19.51 | 3.35 | 9.87 | -1.25 | -5.69 | -6.94 | -20.61 | 3.36 | 9.93 | 0.33 | -6.72 | -6.39 |
| 5220 | 0.60 | 0.00 | -19.31 | 3.36 | 9.87 | -1.25 | -5.48 | -6.73 | -20.65 | 3.37 | 9.93 | 0.33 | -6.75 | -6.42 |
| 5240 | 0.60 | 0.00 | -19.19 | 3.36 | 9.88 | -1.25 | -5.35 | -6.60 | -20.31 | 3.37 | 9.93 | 0.33 | -6.41 | -6.08 |
| 5745 | 0.60 | 6.99 | -31.84 | 3.59 | 9.89 | 0.24 | -10.77 | -10.53 | -28.70 | 3.60 | 9.93 | 0.01 | -7.58 | -7.57 |
| 5785 | 0.60 | 6.99 | -31.89 | 3.60 | 9.89 | 0.24 | -10.81 | -10.57 | -29.26 | 3.61 | 9.93 | 0.01 | -8.13 | -8.12 |
| 5825 | 0.60 | 6.99 | -31.88 | 3.61 | 9.89 | 0.24 | -10.79 | -10.55 | -29.99 | 3.61 | 9.93 | 0.01 | -8.86 | -8.85 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-20 SISO

11ac-20 SISO, RFO

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5180 | -19.81 | 3.35 | 9.87 | 0.32 | -1.25 | 0.00 | -6.27 | 11.00 | 17.27 | -7.52 | 17.00 | 24.52 |
| 5220 | -19.21 | 3.36 | 9.87 | 0.32 | -1.25 | 0.00 | -5.66 | 11.00 | 16.66 | -6.91 | 17.00 | 23.91 |
| 5240 | -19.13 | 3.36 | 9.88 | 0.32 | -1.25 | 0.00 | -5.57 | 11.00 | 16.57 | -6.82 | 17.00 | 23.82 |
| 5745 | -31.30 | 3.59 | 9.89 | 0.32 | 0.24 | 6.99 | -10.51 | 30.00 | 40.51 | -10.27 | 36.00 | 46.27 |
| 5785 | -31.57 | 3.60 | 9.89 | 0.32 | 0.24 | 6.99 | -10.77 | 30.00 | 40.77 | -10.53 | 36.00 | 46.53 |
| 5825 | -32.17 | 3.61 | 9.89 | 0.32 | 0.24 | 6.99 | -11.36 | 30.00 | 41.36 | -11.12 | 36.00 | 47.12 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

11ac-20 SISO, RFI

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5180 | -20.71 | 3.36 | 9.93 | 0.32 | 0.33 | 0.00 | -7.10 | 11.00 | 18.10 | -6.77 | 17.00 | 23.77 |
| 5220 | -20.24 | 3.37 | 9.93 | 0.32 | 0.33 | 0.00 | -6.62 | 11.00 | 17.62 | -6.29 | 17.00 | 23.29 |
| 5240 | -20.32 | 3.37 | 9.93 | 0.32 | 0.33 | 0.00 | -6.70 | 11.00 | 17.70 | -6.37 | 17.00 | 23.37 |
| 5745 | -28.42 | 3.60 | 9.93 | 0.32 | 0.01 | 6.99 | -7.58 | 30.00 | 37.58 | -7.57 | 36.00 | 43.57 |
| 5785 | -29.48 | 3.61 | 9.93 | 0.32 | 0.01 | 6.99 | -8.63 | 30.00 | 38.63 | -8.62 | 36.00 | 44.62 |
| 5825 | -30.28 | 3.61 | 9.93 | 0.32 | 0.01 | 6.99 | -9.43 | 30.00 | 39.43 | -9.42 | 36.00 | 45.42 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11ac-20 CDD

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5180 | 0.24 | 0.20 | 0.44 | -3.60 | 11.00 | 14.60 | 0.52 | 0.42 | 0.94 | -0.26 | 17.00 | 17.26 |
| 5220 | 0.26 | 0.22 | 0.48 | -3.20 | 11.00 | 14.20 | 0.55 | 0.48 | 1.03 | 0.14 | 17.00 | 16.86 |
| 5240 | 0.28 | 0.23 | 0.51 | -2.92 | 11.00 | 13.92 | 0.61 | 0.49 | 1.10 | 0.42 | 17.00 | 16.58 |
| 5745 | 0.08 | 0.18 | 0.27 | -5.75 | 30.00 | 35.75 | 0.18 | 0.38 | 0.56 | -2.50 | 36.00 | 38.50 |
| 5785 | 0.08 | 0.15 | 0.23 | -6.40 | 30.00 | 36.40 | 0.17 | 0.31 | 0.48 | -3.15 | 36.00 | 39.15 |
| 5825 | 0.10 | 0.12 | 0.22 | -6.50 | 30.00 | 36.50 | 0.21 | 0.26 | 0.47 | -3.25 | 36.00 | 39.25 |

| Tested Frequency [MHz] | RF0 | | | | | | | RF1 | | | | | | | |
|---------------------------|-------------|-----------------------|---------|------------|-------------|------------------|------------------|---------------------|-----------|---------|------------|-------------|------------------|------------|-----------|
| | Duty Factor | RBW Correction Factor | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result Cond. | PSD Result e.i.r.p. | | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result | |
| | | | | | | | | [dB] | [dBm/MHz] | | | | | [dBm/MHz] | [dBm/MHz] |
| [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | | |
| 5180 | 0.32 | 0.00 | -19.71 | 3.35 | 9.87 | 3.34 | -6.17 | -2.83 | -20.71 | 3.36 | 9.93 | 3.34 | -7.10 | -3.76 | |
| 5220 | 0.32 | 0.00 | -19.46 | 3.36 | 9.87 | 3.34 | -5.91 | -2.57 | -20.16 | 3.37 | 9.93 | 3.34 | -6.54 | -3.20 | |
| 5240 | 0.32 | 0.00 | -19.08 | 3.36 | 9.88 | 3.34 | -5.52 | -2.18 | -20.02 | 3.37 | 9.93 | 3.34 | -6.40 | -3.06 | |
| 5745 | 0.32 | 6.99 | -31.50 | 3.59 | 9.89 | 3.25 | -10.71 | -7.46 | -28.26 | 3.60 | 9.93 | 3.25 | -7.42 | -4.17 | |
| 5785 | 0.32 | 6.99 | -31.66 | 3.60 | 9.89 | 3.25 | -10.86 | -7.61 | -29.18 | 3.61 | 9.93 | 3.25 | -8.33 | -5.08 | |
| 5825 | 0.32 | 6.99 | -30.78 | 3.61 | 9.89 | 3.25 | -9.97 | -6.72 | -29.94 | 3.61 | 9.93 | 3.25 | -9.09 | -5.84 | |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = $G_{ANT}(\text{Antenna Gain}) + \text{Array Gain}$

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-20 MIMO

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5180 | 0.24 | 0.21 | 0.45 | -3.45 | 11.00 | 14.45 | 0.18 | 0.23 | 0.41 | -3.90 | 17.00 | 20.90 |
| 5220 | 0.28 | 0.24 | 0.52 | -2.87 | 11.00 | 13.87 | 0.21 | 0.26 | 0.47 | -3.32 | 17.00 | 20.32 |
| 5240 | 0.30 | 0.21 | 0.51 | -2.91 | 11.00 | 13.91 | 0.23 | 0.23 | 0.45 | -3.44 | 17.00 | 20.44 |
| 5745 | 0.08 | 0.16 | 0.24 | -6.22 | 30.00 | 36.22 | 0.09 | 0.16 | 0.24 | -6.13 | 36.00 | 42.13 |
| 5785 | 0.08 | 0.14 | 0.22 | -6.57 | 30.00 | 36.57 | 0.09 | 0.14 | 0.23 | -6.47 | 36.00 | 42.47 |
| 5825 | 0.08 | 0.14 | 0.22 | -6.64 | 30.00 | 36.64 | 0.08 | 0.14 | 0.22 | -6.55 | 36.00 | 42.55 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | RF1 | | | | | PSD Result | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|--------------|------------------|---------------------|-----------|------------|-------------|--------------|------------------|---------------------|
| | | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result Cond. | PSD Result e.i.r.p. | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result Cond. | PSD Result e.i.r.p. |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5180 | 0.59 | 0.00 | -19.98 | 3.35 | 9.87 | -1.25 | -6.17 | -7.42 | -20.66 | 3.36 | 9.93 | 0.33 | -6.78 | -6.45 |
| 5220 | 0.59 | 0.00 | -19.36 | 3.36 | 9.87 | -1.25 | -5.54 | -6.79 | -20.13 | 3.37 | 9.93 | 0.33 | -6.24 | -5.91 |
| 5240 | 0.59 | 0.00 | -19.05 | 3.36 | 9.88 | -1.25 | -5.22 | -6.47 | -20.66 | 3.37 | 9.93 | 0.33 | -6.77 | -6.44 |
| 5745 | 0.59 | 6.99 | -31.93 | 3.59 | 9.89 | 0.24 | -10.87 | -10.63 | -29.16 | 3.60 | 9.93 | 0.01 | -8.05 | -8.04 |
| 5785 | 0.59 | 6.99 | -31.98 | 3.60 | 9.89 | 0.24 | -10.91 | -10.67 | -29.68 | 3.61 | 9.93 | 0.01 | -8.56 | -8.55 |
| 5825 | 0.59 | 6.99 | -32.19 | 3.61 | 9.89 | 0.24 | -11.11 | -10.87 | -29.68 | 3.61 | 9.93 | 0.01 | -8.56 | -8.55 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11n-40 SISO

11n-40 SISO, RF0

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5190 | -23.05 | 3.35 | 9.87 | 0.62 | -1.25 | 0.00 | -9.21 | 11.00 | 20.21 | -10.46 | 17.00 | 27.46 |
| 5230 | -22.33 | 3.36 | 9.87 | 0.62 | -1.25 | 0.00 | -8.48 | 11.00 | 19.48 | -9.73 | 17.00 | 26.73 |
| 5755 | -35.21 | 3.60 | 9.89 | 0.62 | 0.24 | 6.99 | -14.11 | 30.00 | 44.11 | -13.87 | 36.00 | 49.87 |
| 5795 | -35.12 | 3.60 | 9.89 | 0.62 | 0.24 | 6.99 | -14.02 | 30.00 | 44.02 | -13.78 | 36.00 | 49.78 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

11n-40 SISO, RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5190 | -23.90 | 3.36 | 9.93 | 0.62 | 0.33 | 0.00 | -9.99 | 11.00 | 20.99 | -9.66 | 17.00 | 26.66 |
| 5230 | -23.44 | 3.37 | 9.93 | 0.62 | 0.33 | 0.00 | -9.52 | 11.00 | 20.52 | -9.19 | 17.00 | 26.19 |
| 5755 | -32.58 | 3.60 | 9.93 | 0.62 | 0.01 | 6.99 | -11.44 | 30.00 | 41.44 | -11.43 | 36.00 | 47.43 |
| 5795 | -32.61 | 3.61 | 9.93 | 0.62 | 0.01 | 6.99 | -11.46 | 30.00 | 41.46 | -11.45 | 36.00 | 47.45 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11n-40 CDD

RF0 + RF1 Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5190 | 0.12 | 0.10 | 0.23 | -6.48 | 11.00 | 17.48 | 0.26 | 0.22 | 0.49 | -3.13 | 17.00 | 20.13 |
| 5230 | 0.14 | 0.11 | 0.25 | -6.10 | 11.00 | 17.10 | 0.30 | 0.23 | 0.53 | -2.76 | 17.00 | 19.76 |
| 5755 | 0.04 | 0.09 | 0.13 | -8.97 | 30.00 | 38.97 | 0.08 | 0.18 | 0.27 | -5.72 | 36.00 | 41.72 |
| 5795 | 0.04 | 0.07 | 0.11 | -9.69 | 30.00 | 39.69 | 0.09 | 0.14 | 0.23 | -6.44 | 36.00 | 42.44 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | RF1 | | | | | PSD Result | |
|---------------------------|---------------------|-------------------------------|---------|------------|-------------|------------------|------------|--------|---------|------------|-------------|------------------|------------|-------|
| | | | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result | | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result | |
| | | | | | | | [dBm/MHz] | [dB] | | | | | [dB] | [dBi] |
| 5190 | 0.62 | 0.00 | -22.99 | 3.35 | 9.87 | 3.34 | -9.15 | -5.81 | -23.76 | 3.36 | 9.93 | 3.34 | -9.85 | -6.51 |
| 5230 | 0.62 | 0.00 | -22.42 | 3.36 | 9.87 | 3.34 | -8.57 | -5.23 | -23.64 | 3.37 | 9.93 | 3.34 | -9.72 | -6.38 |
| 5755 | 0.62 | 6.99 | -35.08 | 3.60 | 9.89 | 3.25 | -13.98 | -10.73 | -31.75 | 3.60 | 9.93 | 3.25 | -10.61 | -7.36 |
| 5795 | 0.62 | 6.99 | -35.03 | 3.60 | 9.89 | 3.25 | -13.93 | -10.68 | -32.90 | 3.61 | 9.93 | 3.25 | -11.75 | -8.50 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = $G_{ANT}(\text{Antenna Gain}) + \text{Array Gain}$

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11n-40 MIMO

RF0 + RF1 Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5190 | 0.13 | 0.10 | 0.23 | -6.35 | 11.00 | 17.35 | 0.10 | 0.11 | 0.21 | -6.83 | 17.00 | 23.83 |
| 5230 | 0.15 | 0.12 | 0.27 | -5.68 | 11.00 | 16.68 | 0.11 | 0.13 | 0.24 | -6.14 | 17.00 | 23.14 |
| 5755 | 0.05 | 0.08 | 0.13 | -8.83 | 30.00 | 38.83 | 0.05 | 0.08 | 0.13 | -8.74 | 36.00 | 44.74 |
| 5795 | 0.05 | 0.08 | 0.12 | -9.09 | 30.00 | 39.09 | 0.05 | 0.08 | 0.13 | -8.99 | 36.00 | 44.99 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | | RF1 | | | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|--------------|------------|-----------|-----------|------------|-------------|--------------|------------|-----------|
| | | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | |
| | | | | | | | Cond. | e.i.r.p. | | | | | Cond. | e.i.r.p. |
| [dBm/MHz] | [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5190 | 1.09 | 0.00 | -23.21 | 3.35 | 9.87 | -1.25 | -8.90 | -10.15 | -24.25 | 3.36 | 9.93 | 0.33 | -9.87 | -9.54 |
| 5230 | 1.09 | 0.00 | -22.64 | 3.36 | 9.87 | -1.25 | -8.32 | -9.57 | -23.49 | 3.37 | 9.93 | 0.33 | -9.10 | -8.77 |
| 5755 | 1.09 | 6.99 | -34.82 | 3.60 | 9.89 | 0.24 | -13.25 | -13.01 | -32.39 | 3.60 | 9.93 | 0.01 | -10.78 | -10.77 |
| 5795 | 1.09 | 6.99 | -34.97 | 3.60 | 9.89 | 0.24 | -13.40 | -13.16 | -32.72 | 3.61 | 9.93 | 0.01 | -11.10 | -11.09 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-40 SISO

11ac-40 SISO, RFO

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5190 | -23.08 | 3.35 | 9.87 | 0.61 | -1.25 | 0.00 | -9.25 | 11.00 | 20.25 | -10.50 | 17.00 | 27.50 |
| 5230 | -22.55 | 3.36 | 9.87 | 0.61 | -1.25 | 0.00 | -8.71 | 11.00 | 19.71 | -9.96 | 17.00 | 26.96 |
| 5755 | -35.01 | 3.60 | 9.89 | 0.61 | 0.24 | 6.99 | -13.92 | 30.00 | 43.92 | -13.68 | 36.00 | 49.68 |
| 5795 | -35.12 | 3.60 | 9.89 | 0.61 | 0.24 | 6.99 | -14.03 | 30.00 | 44.03 | -13.79 | 36.00 | 49.79 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

11ac-40 SISO, RFI

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5190 | -24.15 | 3.36 | 9.93 | 0.61 | 0.33 | 0.00 | -10.25 | 11.00 | 21.25 | -9.92 | 17.00 | 26.92 |
| 5230 | -23.79 | 3.37 | 9.93 | 0.61 | 0.33 | 0.00 | -9.88 | 11.00 | 20.88 | -9.55 | 17.00 | 26.55 |
| 5755 | -31.92 | 3.60 | 9.93 | 0.61 | 0.01 | 6.99 | -10.79 | 30.00 | 40.79 | -10.78 | 36.00 | 46.78 |
| 5795 | -32.94 | 3.61 | 9.93 | 0.61 | 0.01 | 6.99 | -11.80 | 30.00 | 41.80 | -11.79 | 36.00 | 47.79 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11ac-40 CDD

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5190 | 0.13 | 0.10 | 0.23 | -6.46 | 11.00 | 17.46 | 0.27 | 0.22 | 0.49 | -3.12 | 17.00 | 20.12 |
| 5230 | 0.13 | 0.11 | 0.25 | -6.09 | 11.00 | 17.09 | 0.28 | 0.25 | 0.53 | -2.75 | 17.00 | 19.75 |
| 5755 | 0.04 | 0.08 | 0.12 | -9.34 | 30.00 | 39.34 | 0.09 | 0.16 | 0.25 | -6.09 | 36.00 | 42.09 |
| 5795 | 0.04 | 0.07 | 0.11 | -9.57 | 30.00 | 39.57 | 0.08 | 0.15 | 0.23 | -6.32 | 36.00 | 42.32 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | | RF1 | | | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|------------------|------------|-----------|-----------|------------|-------------|------------------|------------|-----------|
| | | | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result | | Reading | Cable Loss | Atten. Loss | Directional Gain | PSD Result | |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5190 | 0.61 | 0.00 | -22.84 | 3.35 | 9.87 | 3.34 | -9.01 | -5.67 | -23.89 | 3.36 | 9.93 | 3.34 | -9.99 | -6.65 |
| 5230 | 0.61 | 0.00 | -22.65 | 3.36 | 9.87 | 3.34 | -8.81 | -5.47 | -23.32 | 3.37 | 9.93 | 3.34 | -9.41 | -6.07 |
| 5755 | 0.61 | 6.99 | -34.96 | 3.60 | 9.89 | 3.25 | -13.87 | -10.62 | -32.36 | 3.60 | 9.93 | 3.25 | -11.23 | -7.98 |
| 5795 | 0.61 | 6.99 | -35.12 | 3.60 | 9.89 | 3.25 | -14.03 | -10.78 | -32.64 | 3.61 | 9.93 | 3.25 | -11.50 | -8.24 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = G_{ANT} (Antenna Gain) + Array Gain

Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-40 MIMO

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5190 | 0.13 | 0.12 | 0.25 | -6.06 | 11.00 | 17.06 | 0.10 | 0.13 | 0.23 | -6.48 | 17.00 | 23.48 |
| 5230 | 0.14 | 0.12 | 0.26 | -5.85 | 11.00 | 16.85 | 0.11 | 0.13 | 0.23 | -6.32 | 17.00 | 23.32 |
| 5755 | 0.05 | 0.08 | 0.13 | -8.87 | 30.00 | 38.87 | 0.05 | 0.08 | 0.13 | -8.78 | 36.00 | 44.78 |
| 5795 | 0.04 | 0.08 | 0.12 | -9.20 | 30.00 | 39.20 | 0.04 | 0.08 | 0.12 | -9.11 | 36.00 | 45.11 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | | | RF1 | | | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|--------------|------------|-----------|-----------|------------|-------------|--------------|------------|-----------|
| | | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | |
| | | | | | | | Cond. | e.i.r.p. | | | | | Cond. | e.i.r.p. |
| [dBm/MHz] | [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5190 | 1.07 | 0.00 | -23.21 | 3.35 | 9.87 | -1.25 | -8.92 | -10.17 | -23.59 | 3.36 | 9.93 | 0.33 | -9.23 | -8.90 |
| 5230 | 1.07 | 0.00 | -22.73 | 3.36 | 9.87 | -1.25 | -8.43 | -9.68 | -23.71 | 3.37 | 9.93 | 0.33 | -9.34 | -9.01 |
| 5755 | 1.07 | 6.99 | -34.97 | 3.60 | 9.89 | 0.24 | -13.42 | -13.18 | -32.34 | 3.60 | 9.93 | 0.01 | -10.75 | -10.74 |
| 5795 | 1.07 | 6.99 | -35.35 | 3.60 | 9.89 | 0.24 | -13.80 | -13.56 | -32.66 | 3.61 | 9.93 | 0.01 | -11.06 | -11.05 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-80 SISO

11ac-80 SISO, RFO

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|--------------------------|-------------------------|----------------|--------------------------|-------------------------|----------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5210 | -26.45 | 3.36 | 9.87 | 1.15 | -1.25 | 0.00 | -12.07 | 11.00 | 23.07 | -13.32 | 17.00 | 30.32 |
| 5775 | -38.72 | 3.60 | 9.89 | 1.15 | 0.24 | 6.99 | -17.09 | 30.00 | 47.09 | -16.85 | 36.00 | 52.85 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

11ac-80 SISO, RFI

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | Reading [dBm] /MHz] | Cable Loss [dB] | Atten. Loss [dB] | Duty Factor [dB] | Antenna Gain [dBi] | RBW Correction Factor [dB] | PSD (Conducted) | | | PSD (e.i.r.p.) | | |
|---------------------------|---------------------------|--------------------|---------------------|---------------------|-----------------------|-------------------------------|--------------------------|-------------------------|----------------|--------------------------|-------------------------|----------------|
| | | | | | | | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] | Result [dBm] /MHz] | Limit [dBm] /MHz] | Margin [dB] |
| 5210 | -27.81 | 3.37 | 9.93 | 1.15 | 0.33 | 0.00 | -13.36 | 11.00 | 24.36 | -13.03 | 17.00 | 30.03 |
| 5775 | -36.20 | 3.61 | 9.93 | 1.15 | 0.01 | 6.99 | -14.52 | 30.00 | 44.52 | -14.51 | 36.00 | 50.51 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 9, 2020
Temperature / Humidity 24 deg. C / 57 % RH
Engineer Shiro Kobayashi
Mode Tx 11ac-80 CDD

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5210 | 0.06 | 0.05 | 0.11 | -9.55 | 11.00 | 20.55 | 0.13 | 0.11 | 0.24 | -6.21 | 17.00 | 23.21 |
| 5775 | 0.02 | 0.04 | 0.06 | -12.58 | 30.00 | 42.58 | 0.04 | 0.08 | 0.12 | -9.33 | 36.00 | 45.33 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | RF1 | | | | PSD Result | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|------------------|-----------|------------|-------------|------------------|------------|-----------|--------|--------|
| | | | Reading | Cable Loss | Atten. Loss | Directional Gain | Reading | Cable Loss | Atten. Loss | Directional Gain | Cond. | e.i.r.p. | | |
| | | | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dBi] | [dBm/MHz] | [dBm/MHz] | | |
| 5210 | 1.15 | 0.00 | -26.54 | 3.36 | 9.87 | 3.34 | -12.16 | -8.82 | -27.45 | 3.37 | 9.93 | 3.34 | -13.00 | -9.66 |
| 5775 | 1.15 | 6.99 | -38.84 | 3.60 | 9.89 | 3.25 | -17.21 | -13.96 | -36.09 | 3.61 | 9.93 | 3.25 | -14.41 | -11.16 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Directional Gain

Directional Gain = $G_{ANT}(\text{Antenna Gain}) + \text{Array Gain}$

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} = number of transmit antennas = 2

N_{SS} = number of spatial streams = 1

Maximum Power Spectral Density

Report No. 13462774S-C-R2
Test place Shonan EMC Lab. No.5 Shielded Room
Date September 8, 2020
Temperature / Humidity 22 deg. C / 51 % RH
Engineer Hiromasa Sato
Mode Tx 11ac-80 MIMO

RF0 + RF1

Applied limit: 15.407, mobile and portable client device

| Tested Frequency [MHz] | PSD (Conducted) | | | | | | PSD (e.i.r.p.) | | | | | |
|---------------------------|-----------------|----------|-----------|-----------|-------|----------|----------------|----------|-----------|-----------|-------|--------|
| | Antenna | | | Result | Limit | Margin | Antenna | | | Result | Limit | Margin |
| | RF0 | RF1 | Sum | | | | RF0 | RF1 | Sum | | | |
| [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [mW/MHz] | [mW/MHz] | [mW/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | |
| 5210 | 0.06 | 0.05 | 0.11 | -9.42 | 11.00 | 20.42 | 0.05 | 0.05 | 0.10 | -9.91 | 17.00 | 26.91 |
| 5775 | 0.02 | 0.04 | 0.06 | -12.00 | 30.00 | 42.00 | 0.02 | 0.04 | 0.06 | -11.92 | 36.00 | 47.92 |

| Tested Frequency [MHz] | Duty Factor [dB] | RBW Correction Factor [dB] | RF0 | | | | RF1 | | | | | | | |
|---------------------------|---------------------|-------------------------------|-----------|------------|-------------|--------------|------------|-----------|-----------|------------|-------------|--------------|------------|-----------|
| | | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | | Reading | Cable Loss | Atten. Loss | Antenna Gain | PSD Result | |
| | | | | | | | Cond. | e.i.r.p. | | | | | Cond. | e.i.r.p. |
| [dBm/MHz] | [dB] | [dB] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] | [dBm/MHz] | [dB] | [dB] | [dBi] | [dBm/MHz] | [dBm/MHz] |
| 5210 | 1.81 | 0.00 | -26.92 | 3.36 | 9.87 | -1.25 | -11.88 | -13.13 | -28.17 | 3.37 | 9.93 | 0.33 | -13.06 | -12.73 |
| 5775 | 1.81 | 6.99 | -39.18 | 3.60 | 9.89 | 0.24 | -16.89 | -16.65 | -36.05 | 3.61 | 9.93 | 0.01 | -13.71 | -13.70 |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

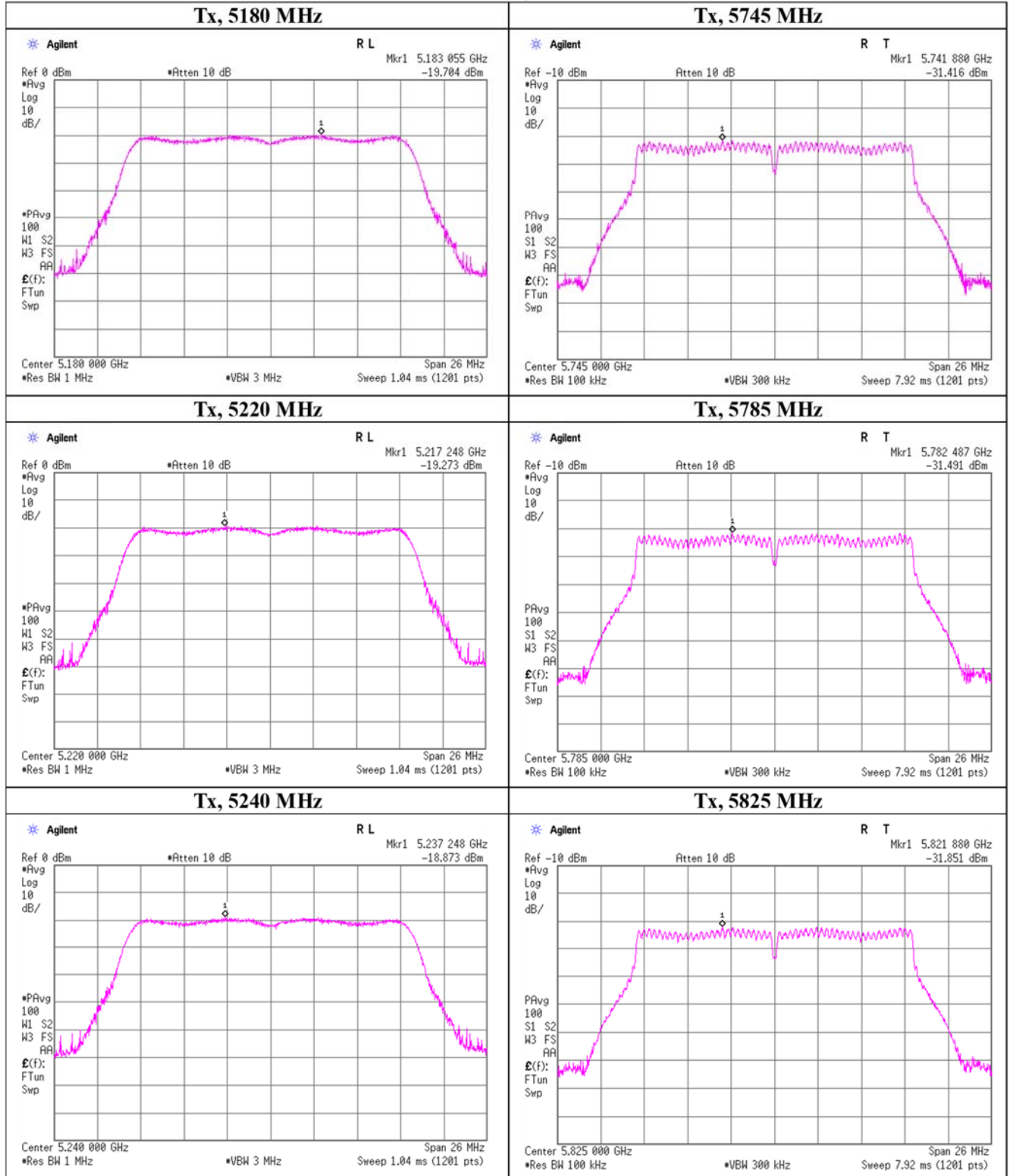
RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

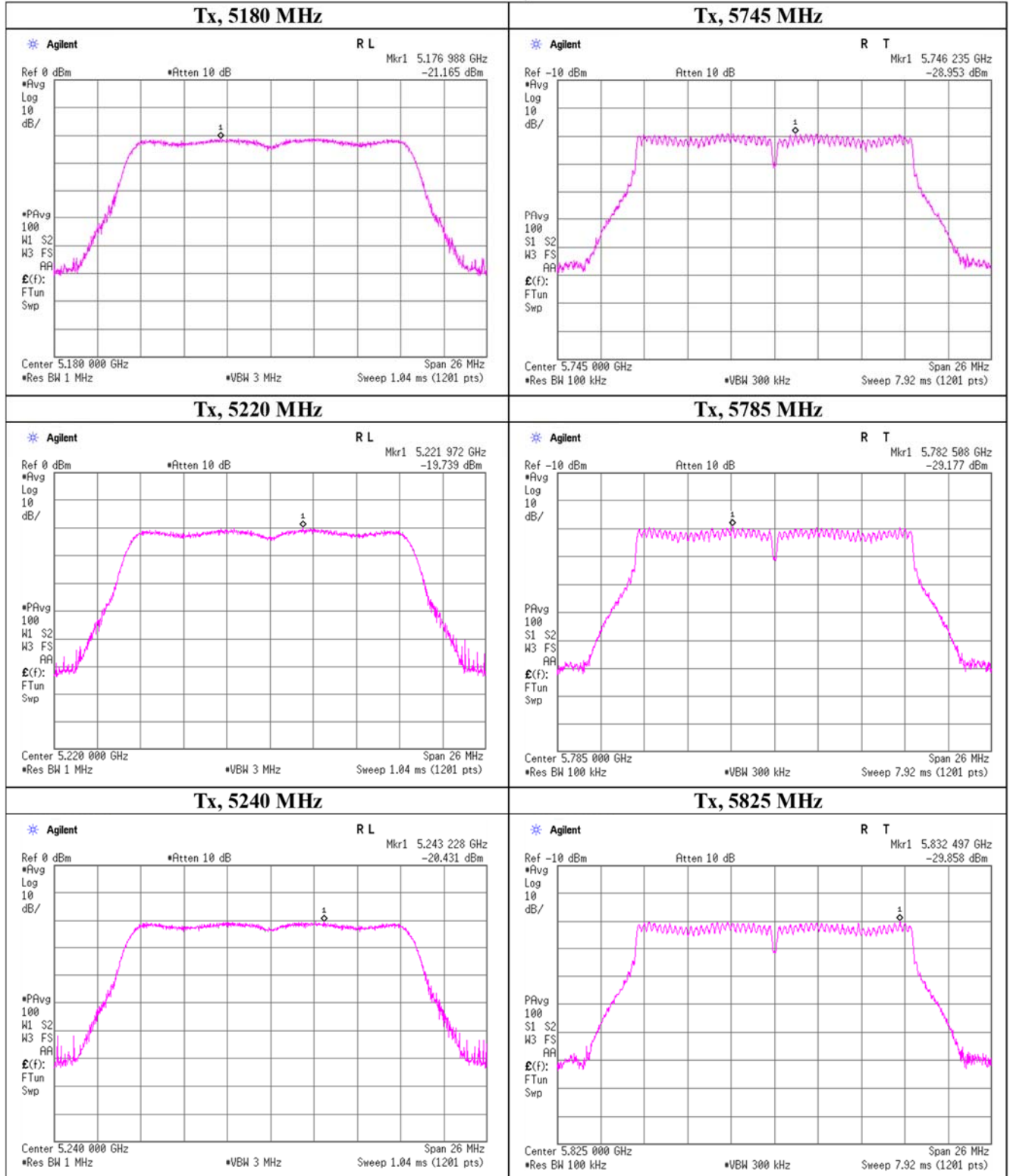
Maximum Power Spectral Density

11a SISO, RF0



Maximum Power Spectral Density

11a SISO, RF1



UL Japan, Inc.

Shonan EMC Lab.

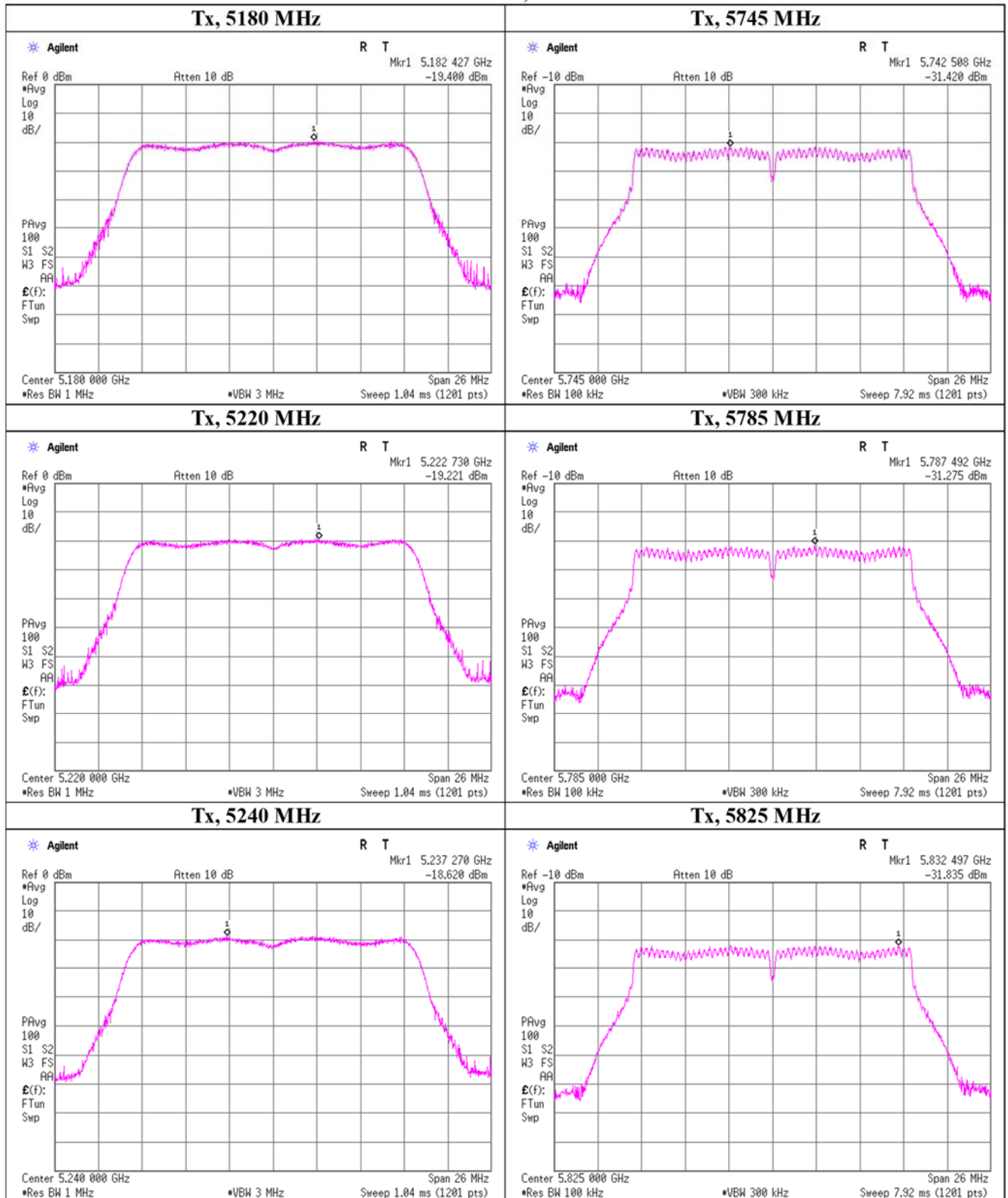
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

11a CDD, RF0



UL Japan, Inc.

Shonan EMC Lab.

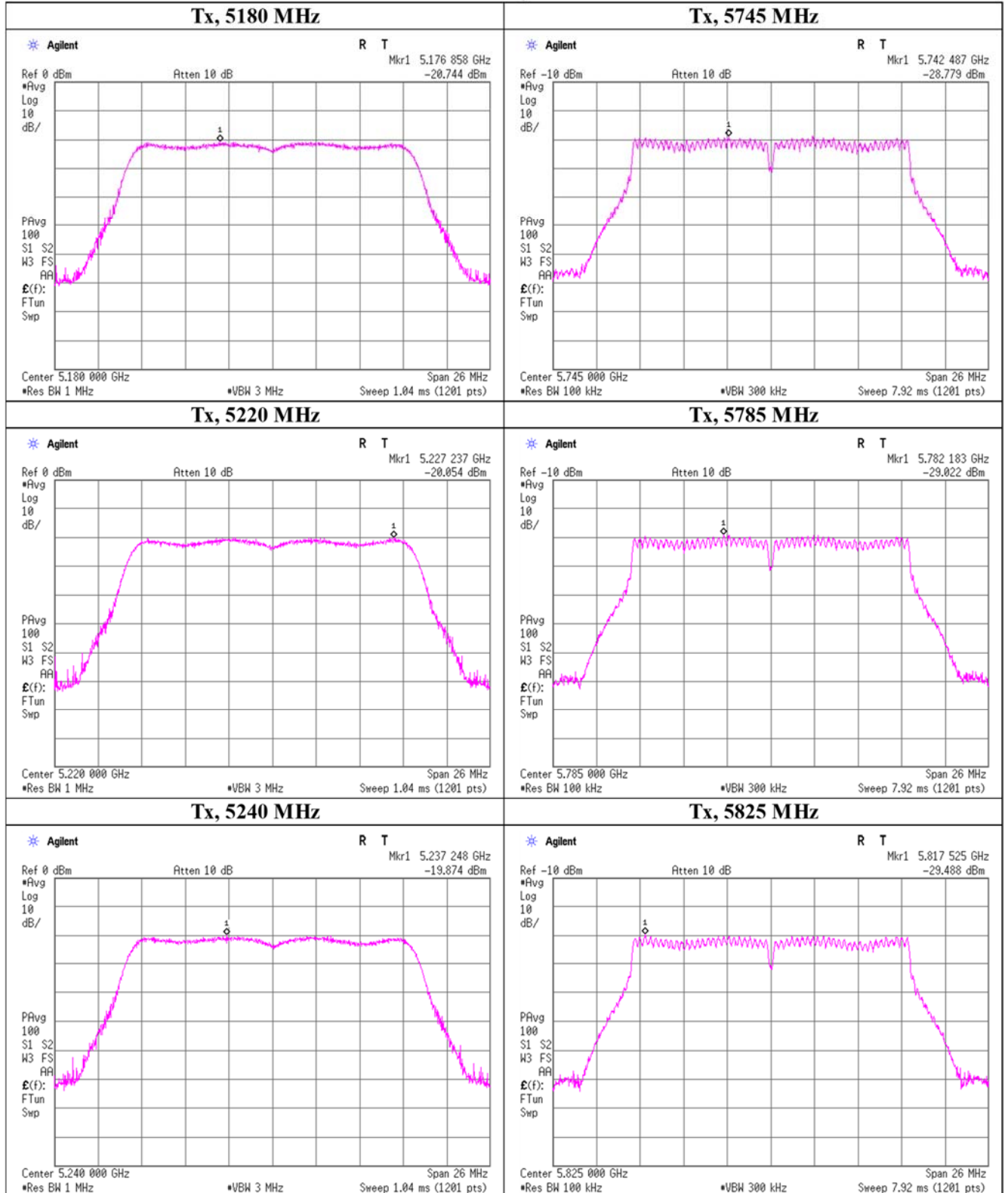
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

11a CDD, RF1



UL Japan, Inc.

Shonan EMC Lab.

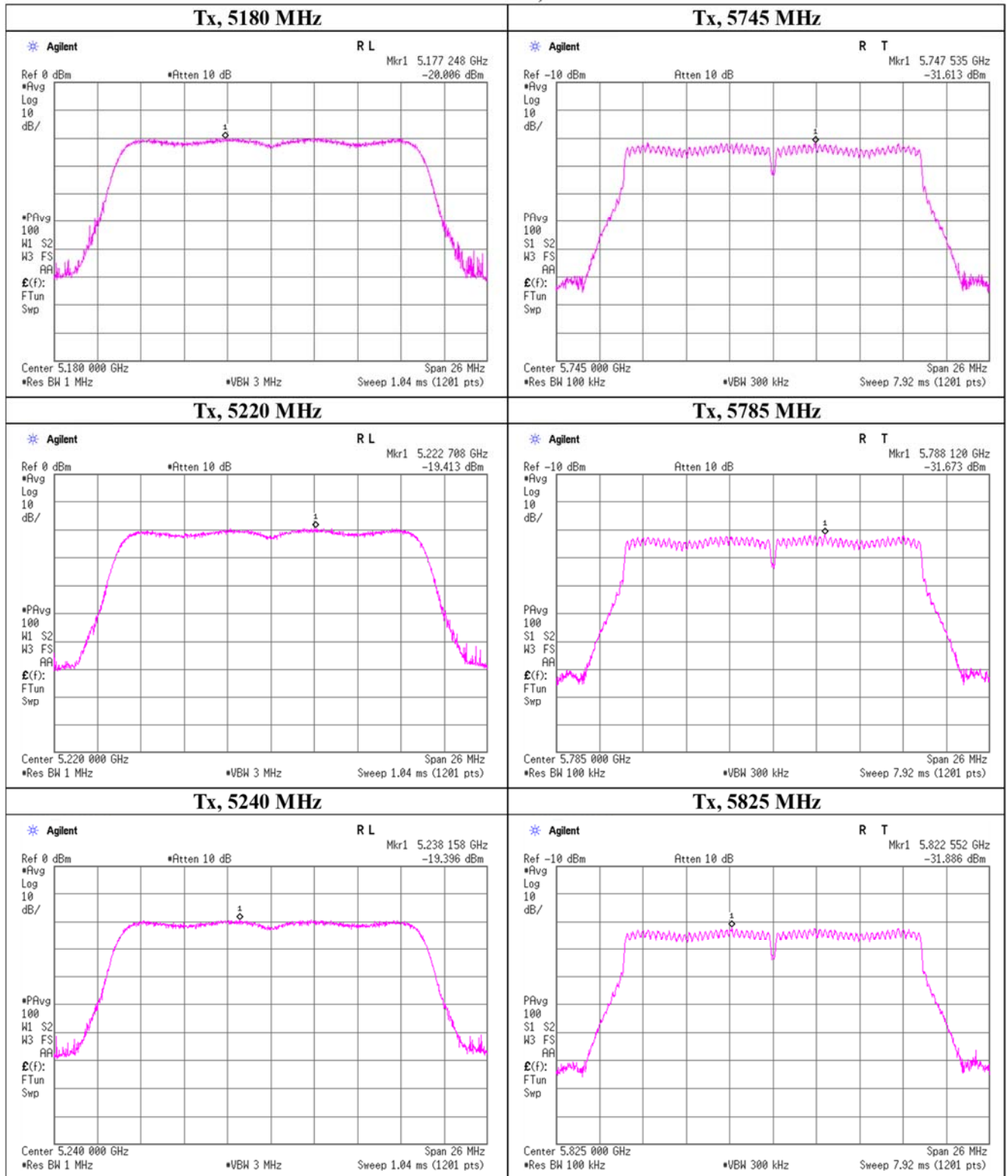
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Maximum Power Spectral Density

11n-20 SISO, RF0



UL Japan, Inc.

Shonan EMC Lab.

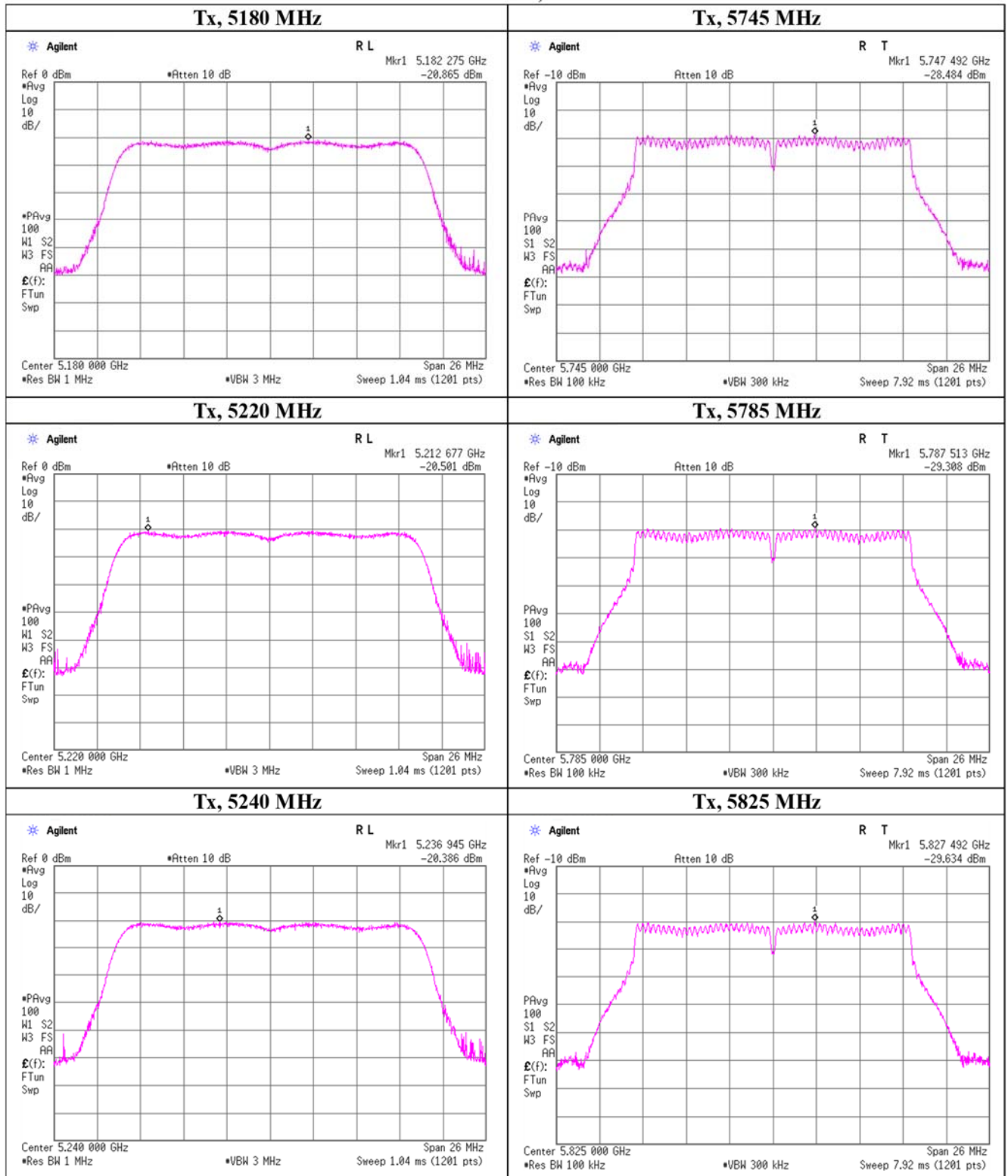
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

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Facsimile : +81 463 50 6401

Maximum Power Spectral Density

11n-20 SISO, RF1



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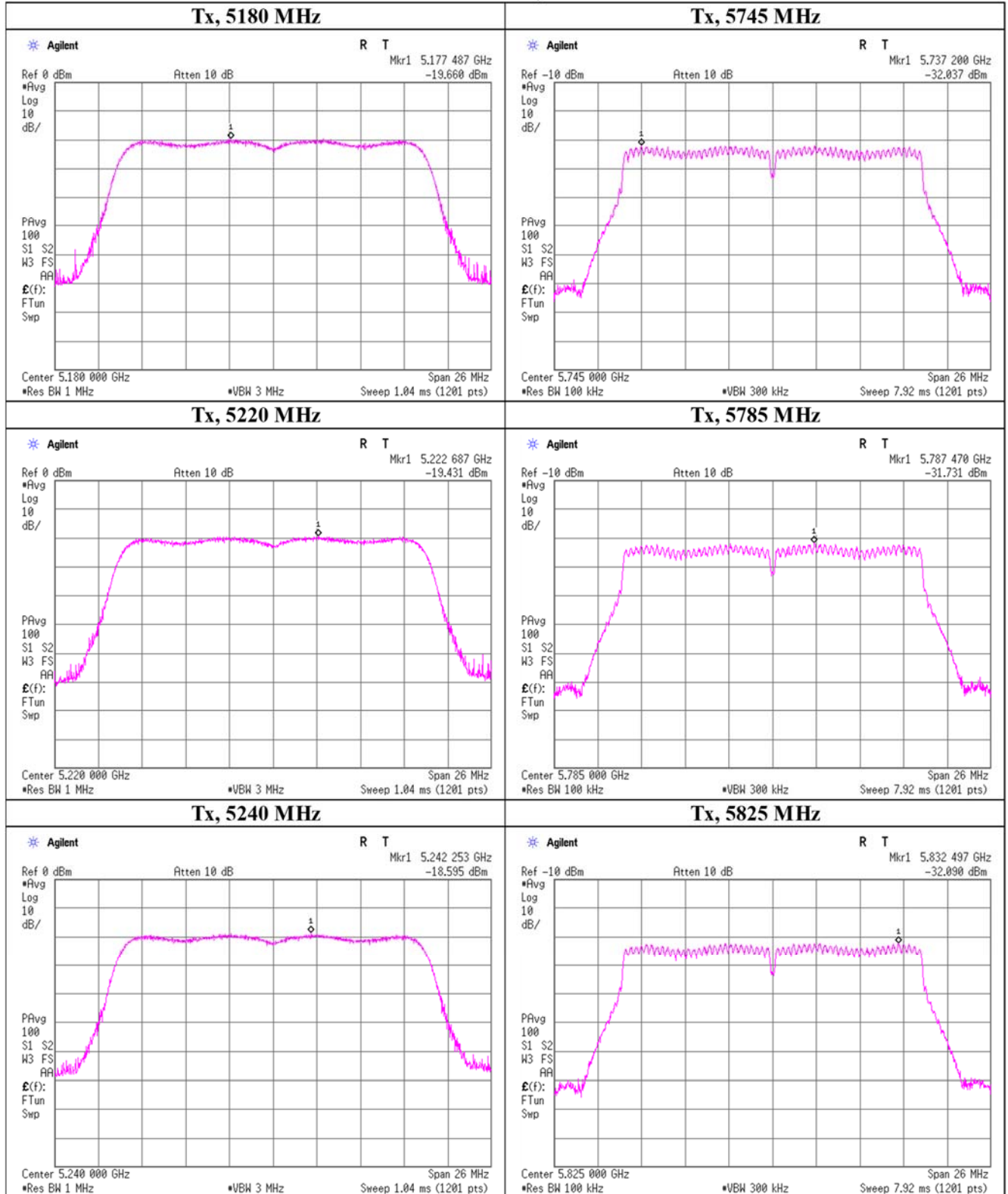
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Maximum Power Spectral Density

11n-20 CDD, RF0



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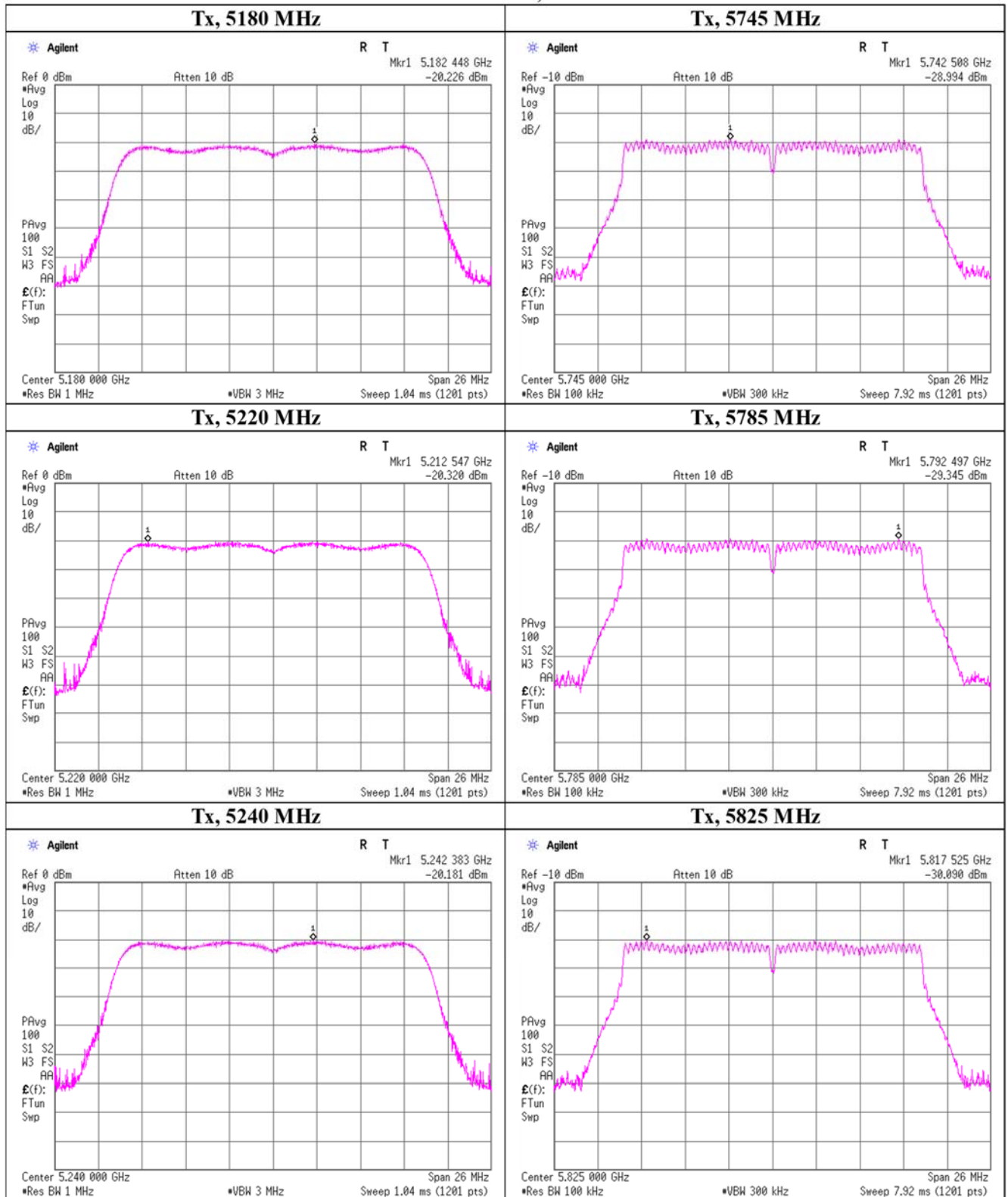
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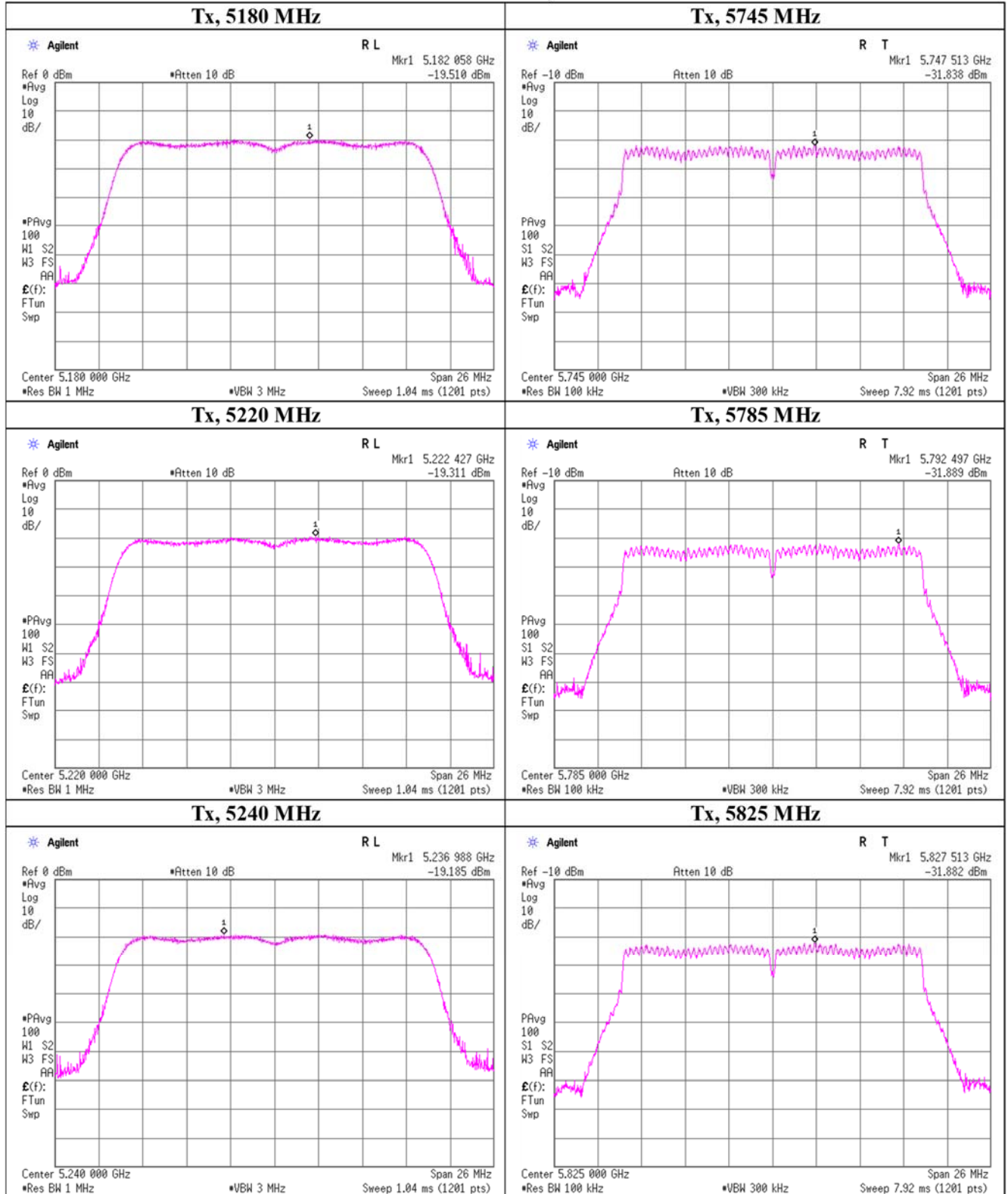
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Maximum Power Spectral Density

11n-20 MIMO, RF0



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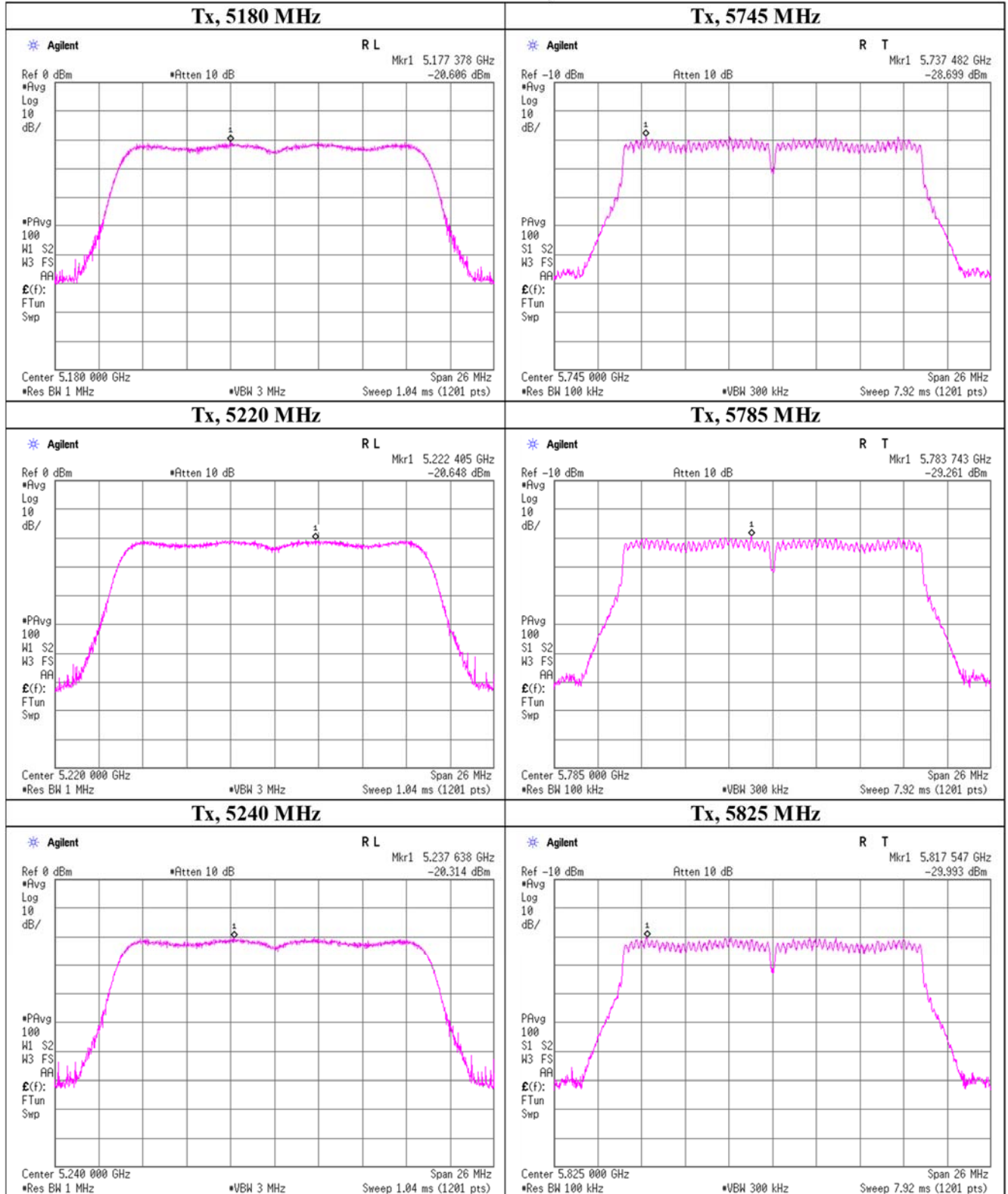
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Maximum Power Spectral Density

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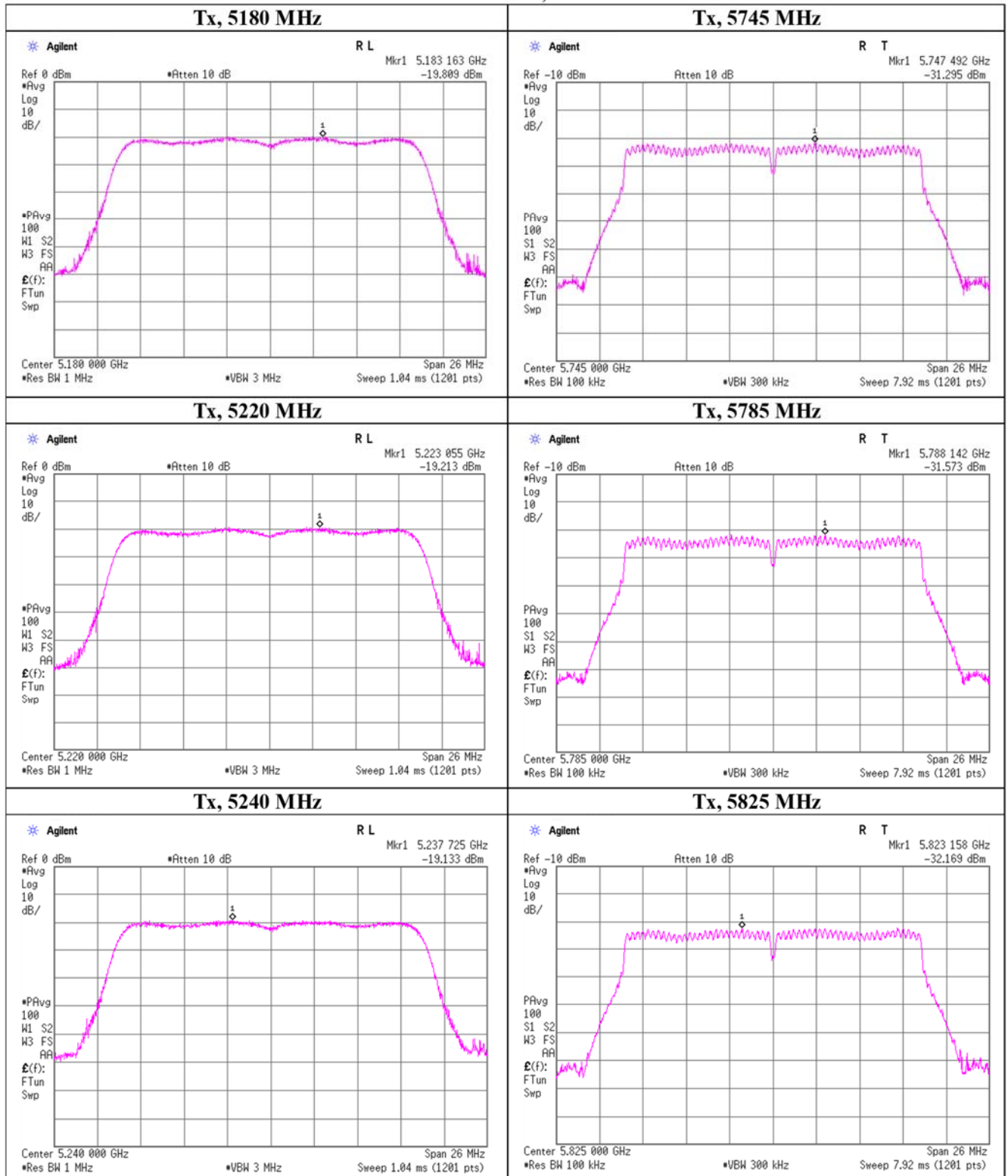
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Maximum Power Spectral Density

11ac-20 SISO, RF0



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Shonan EMC Lab.

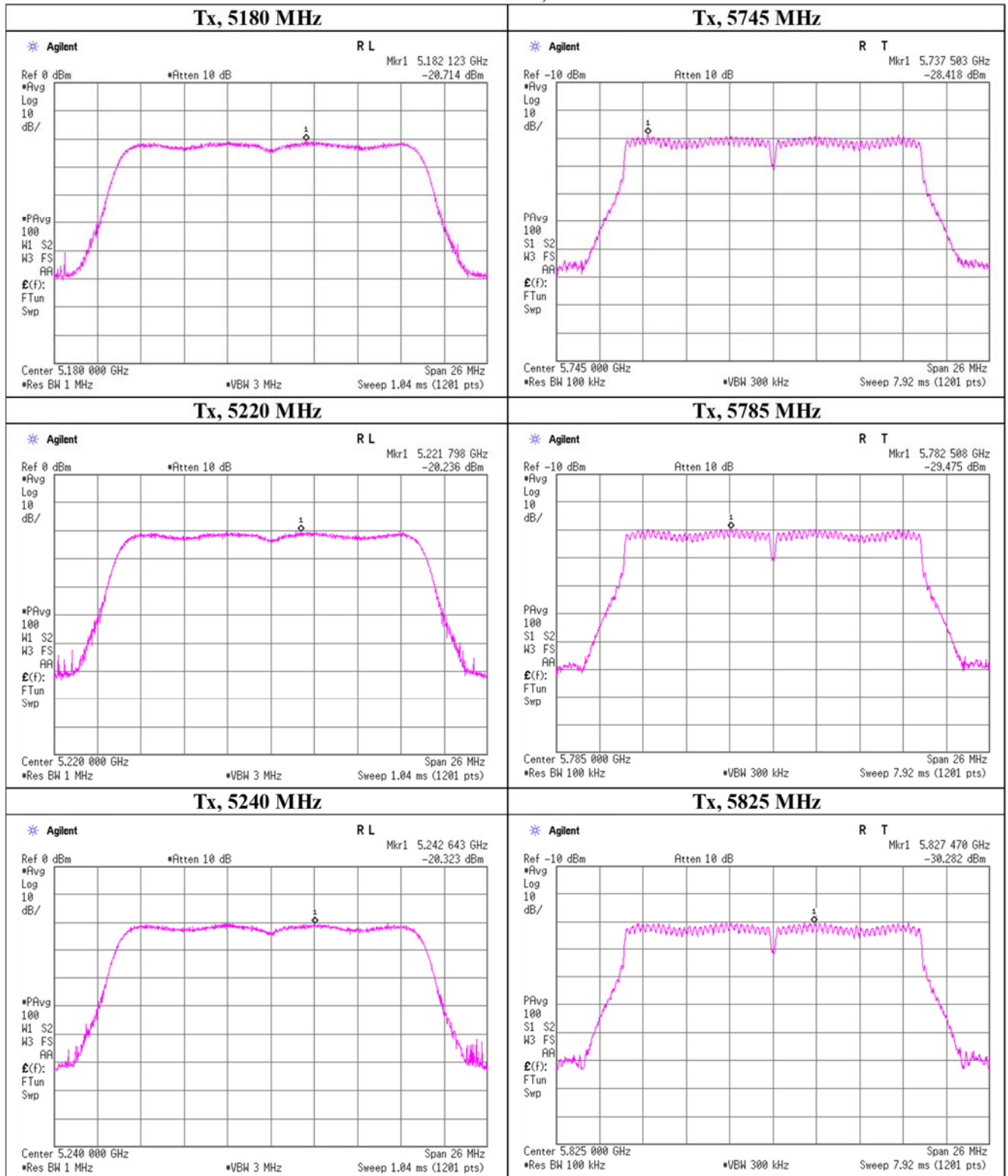
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Maximum Power Spectral Density

11ac-20 SISO, RF1



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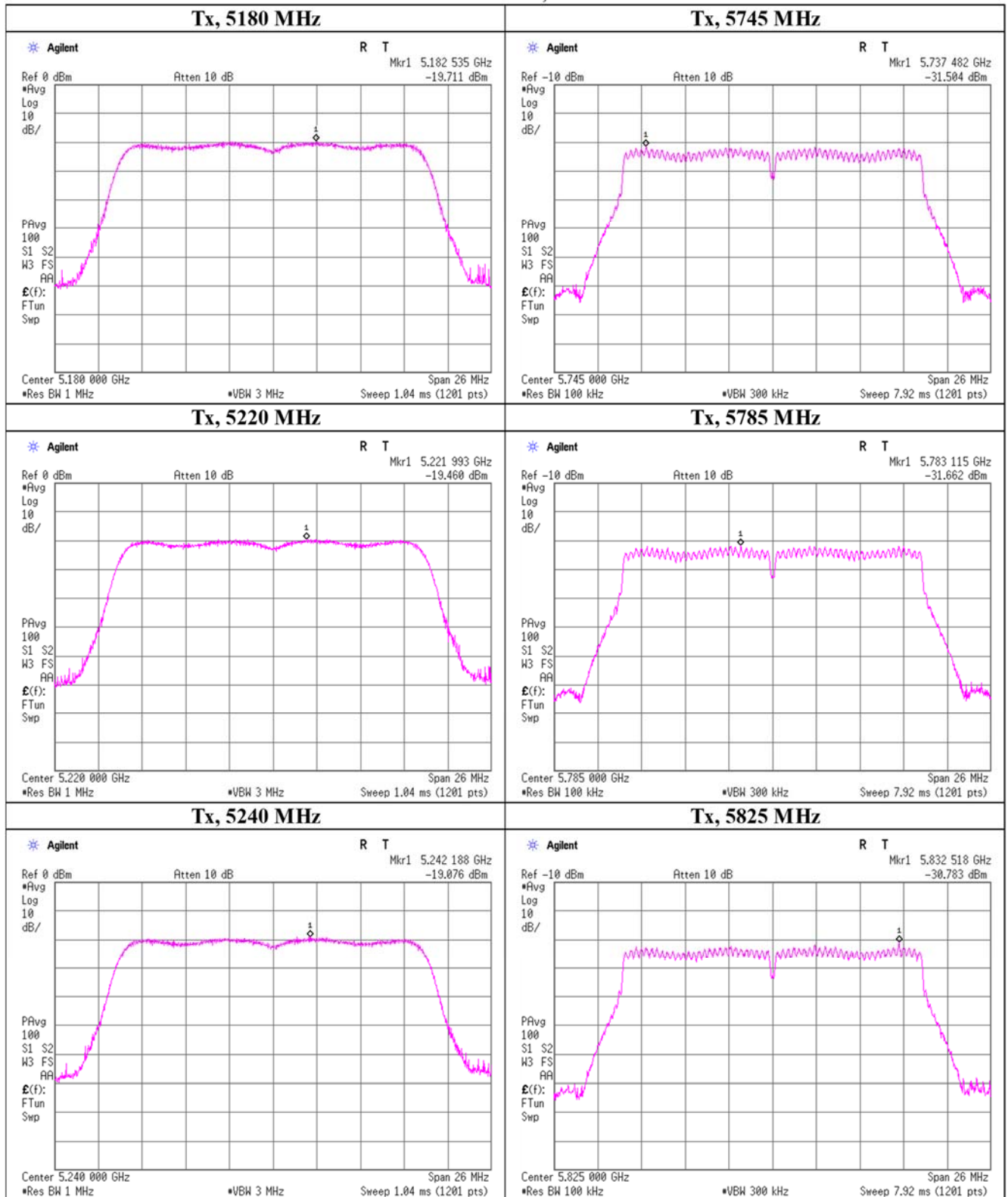
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Maximum Power Spectral Density

11ac-20 CDD, RF0



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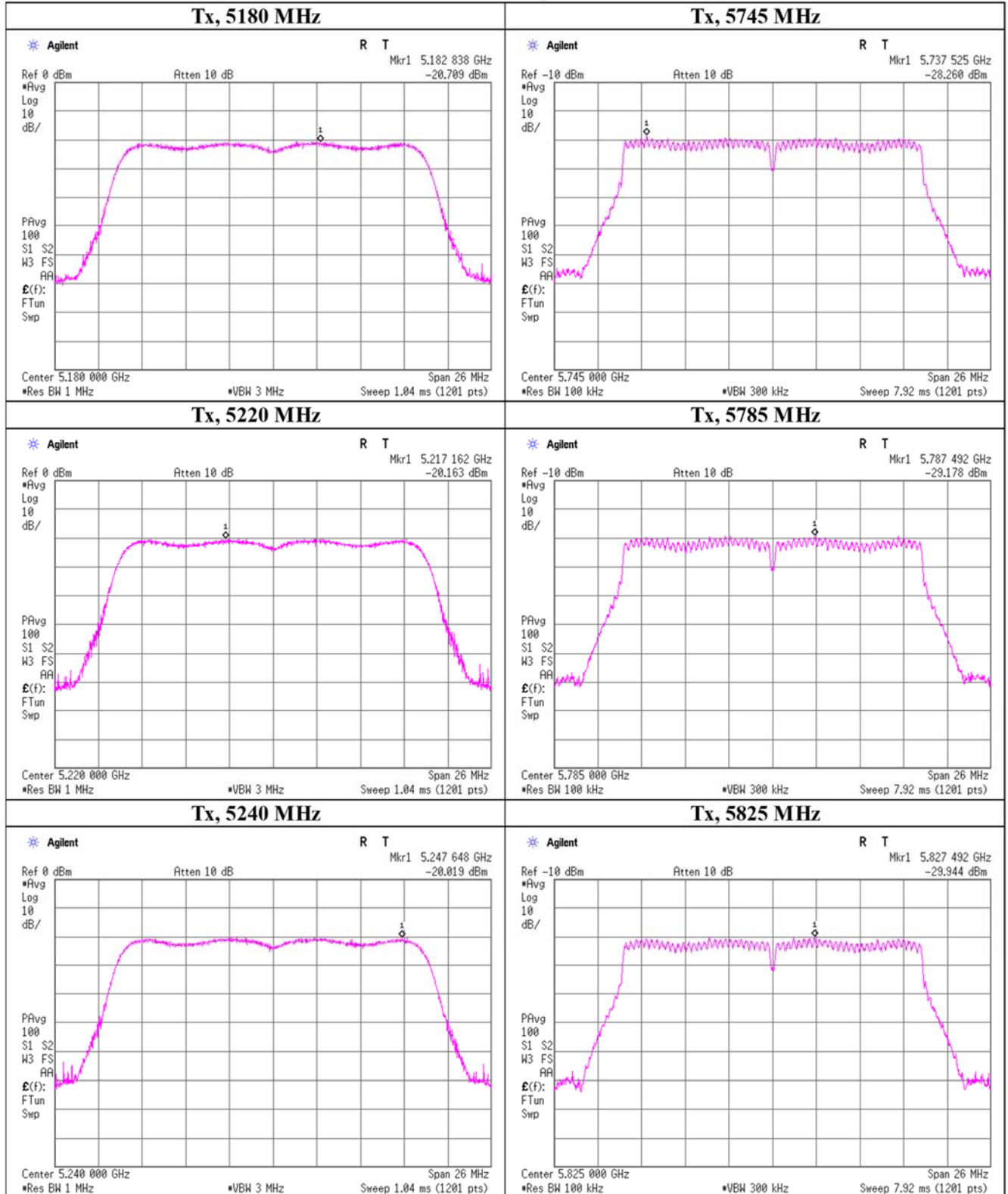
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Maximum Power Spectral Density

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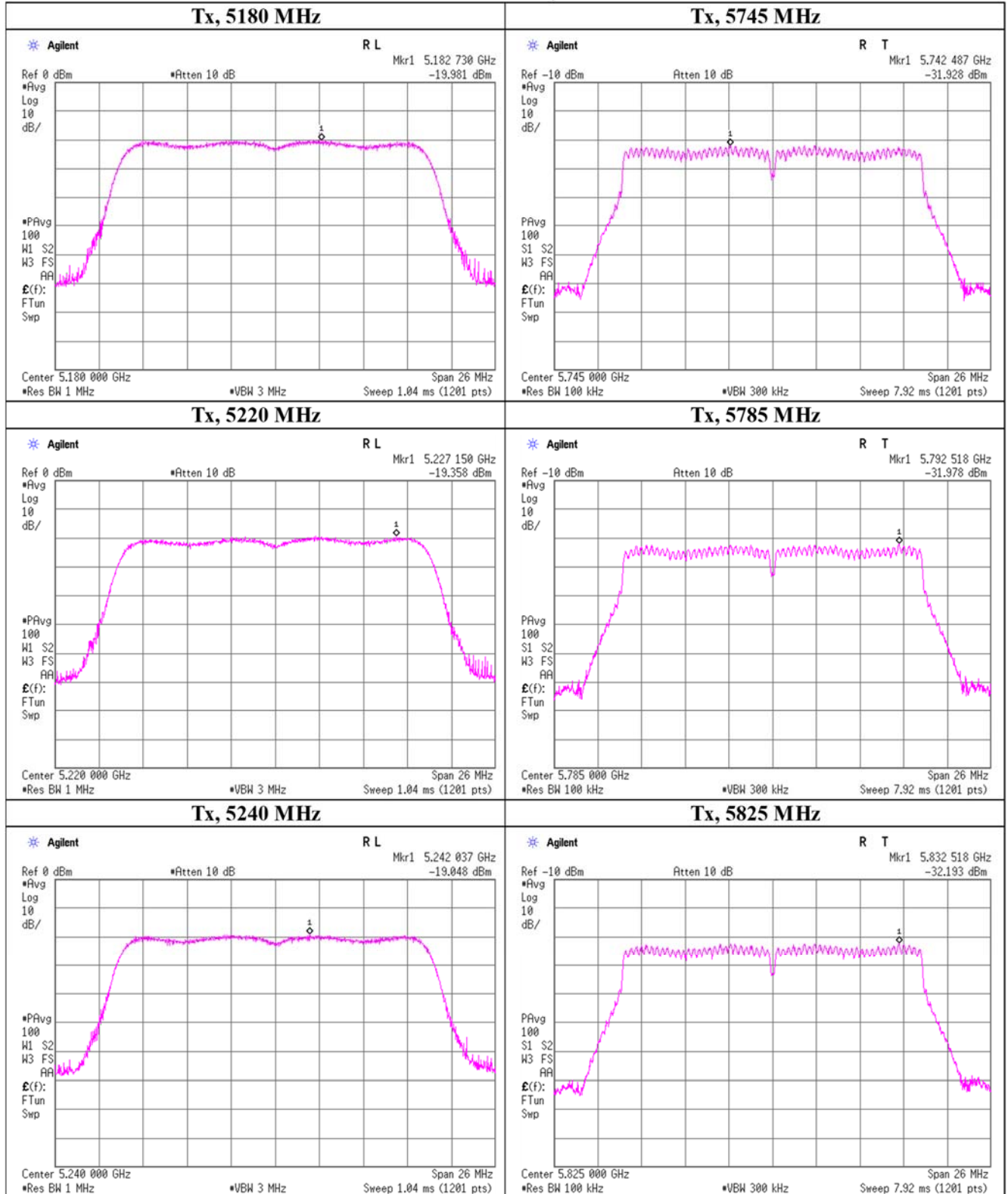
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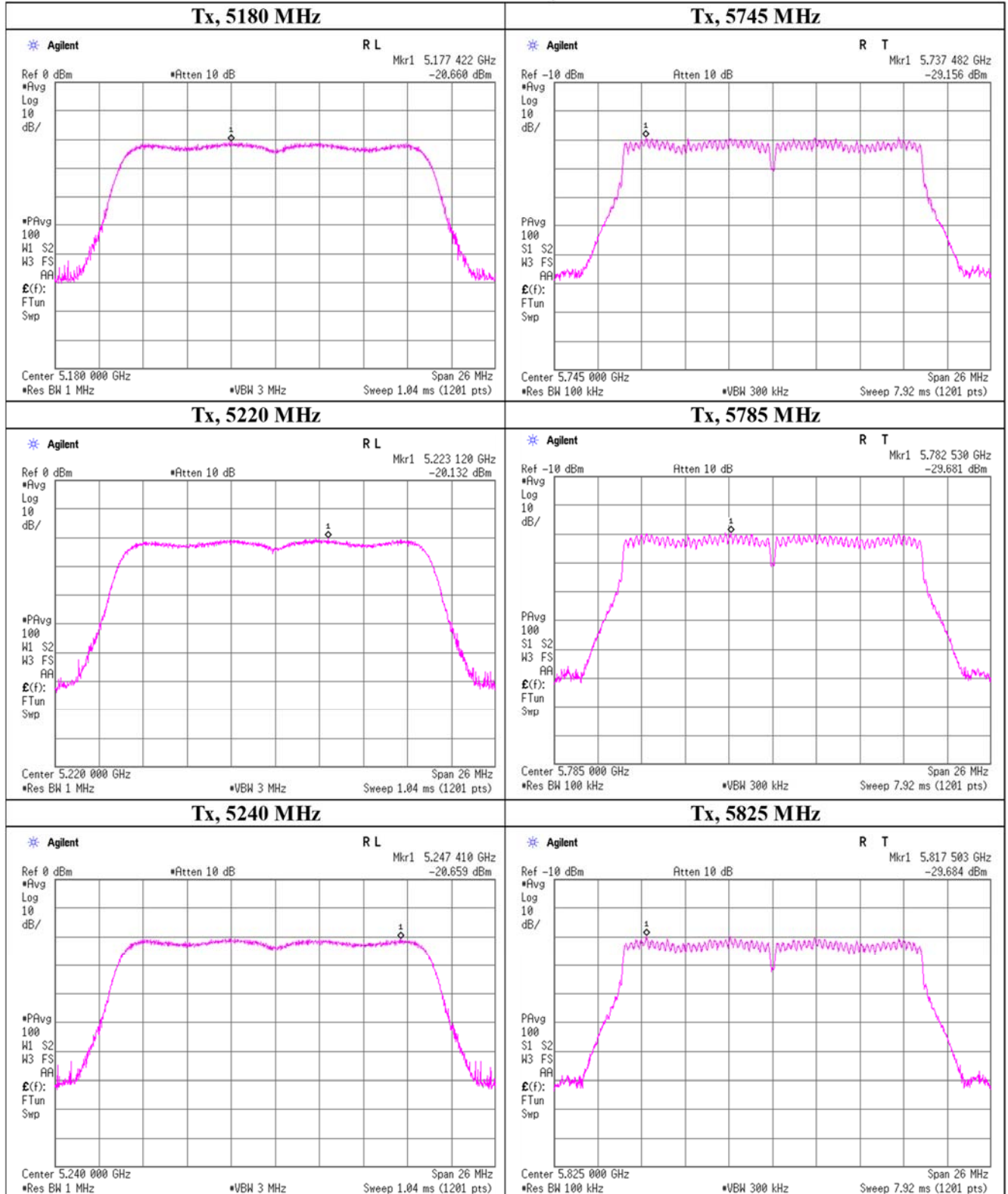
Maximum Power Spectral Density

11ac-20 MIMO, RF0



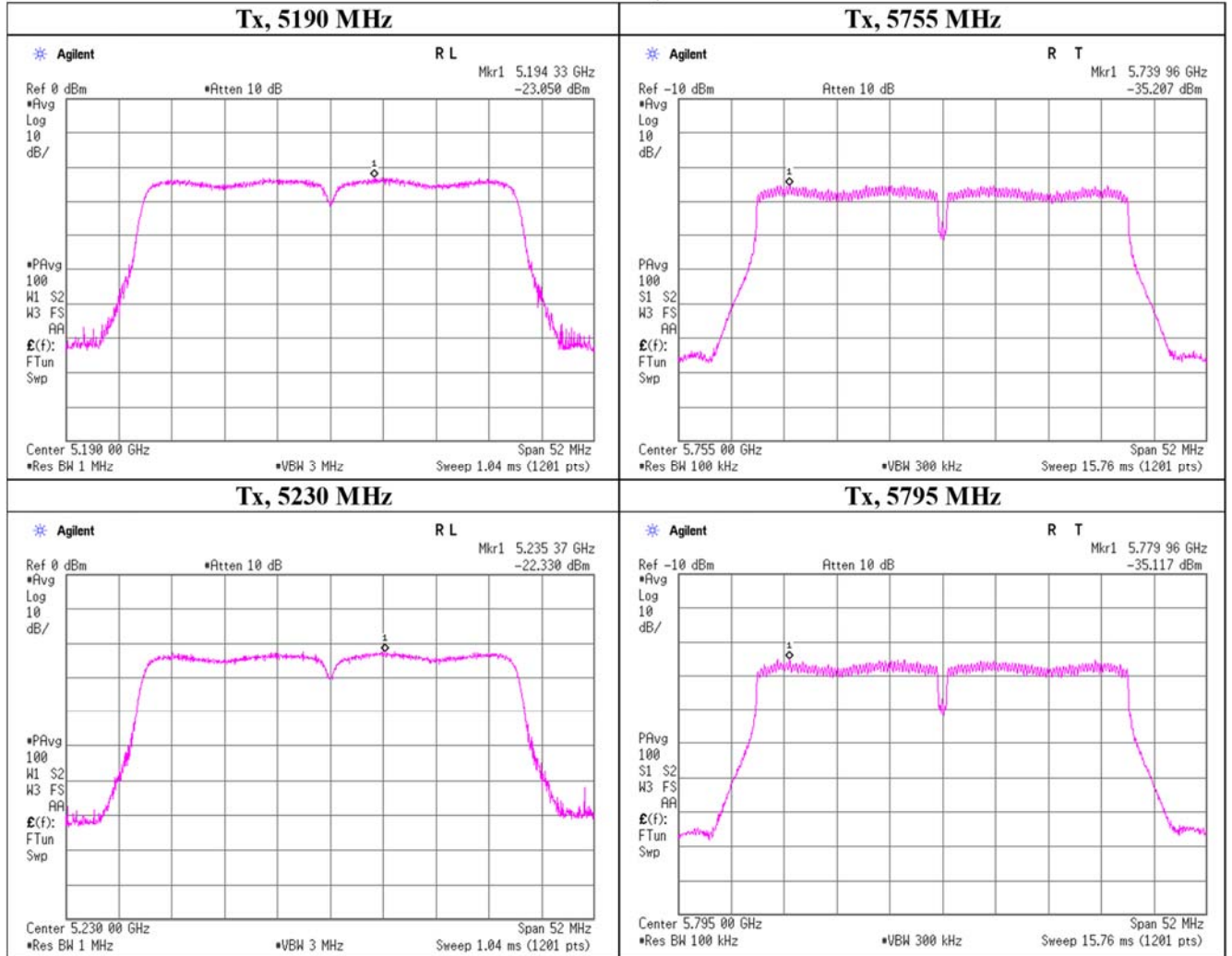
Maximum Power Spectral Density

11ac-20 MIMO, RF1



Maximum Power Spectral Density

11n-40 SISO, RF0



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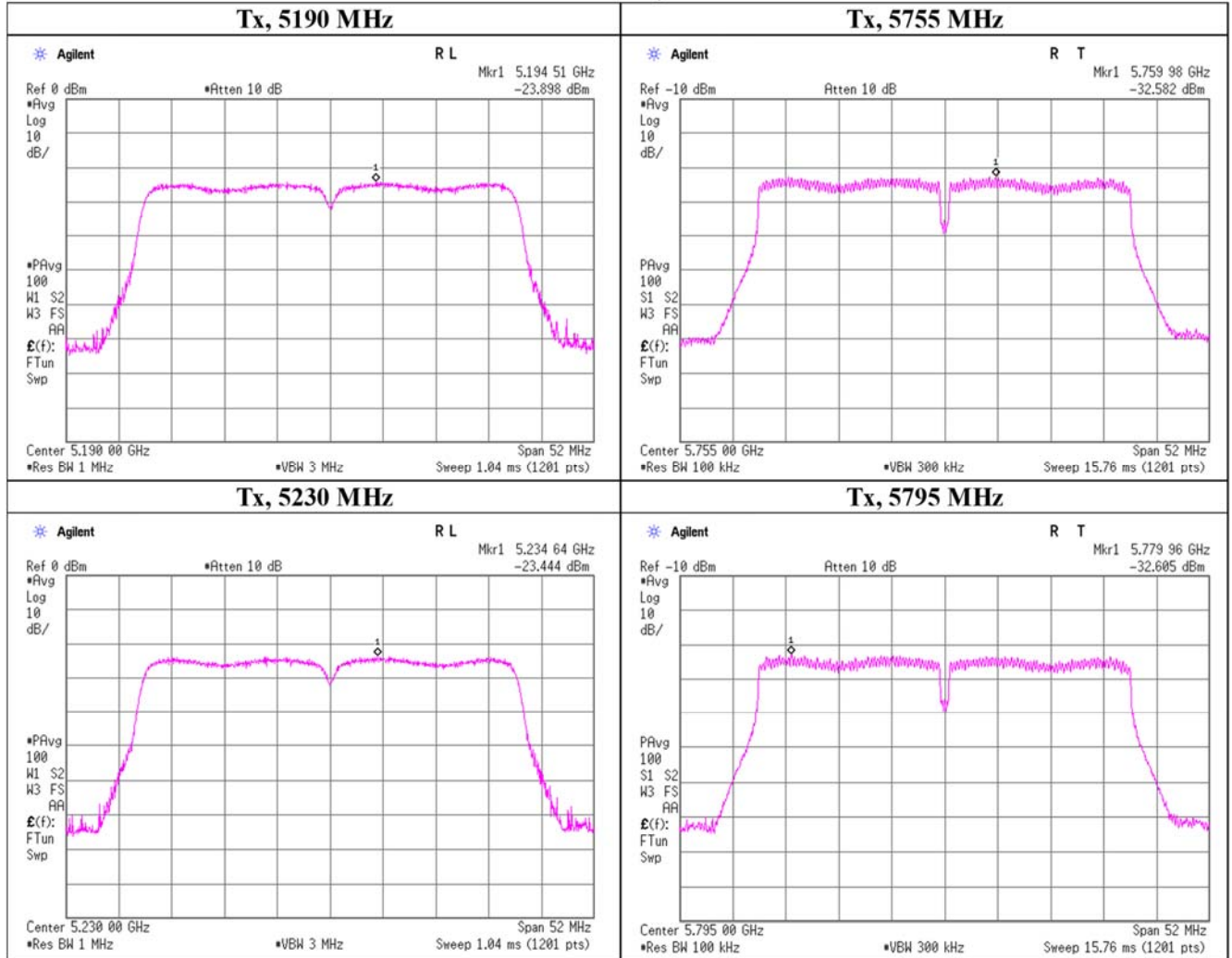
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Maximum Power Spectral Density

11n-40 SISO, RF1



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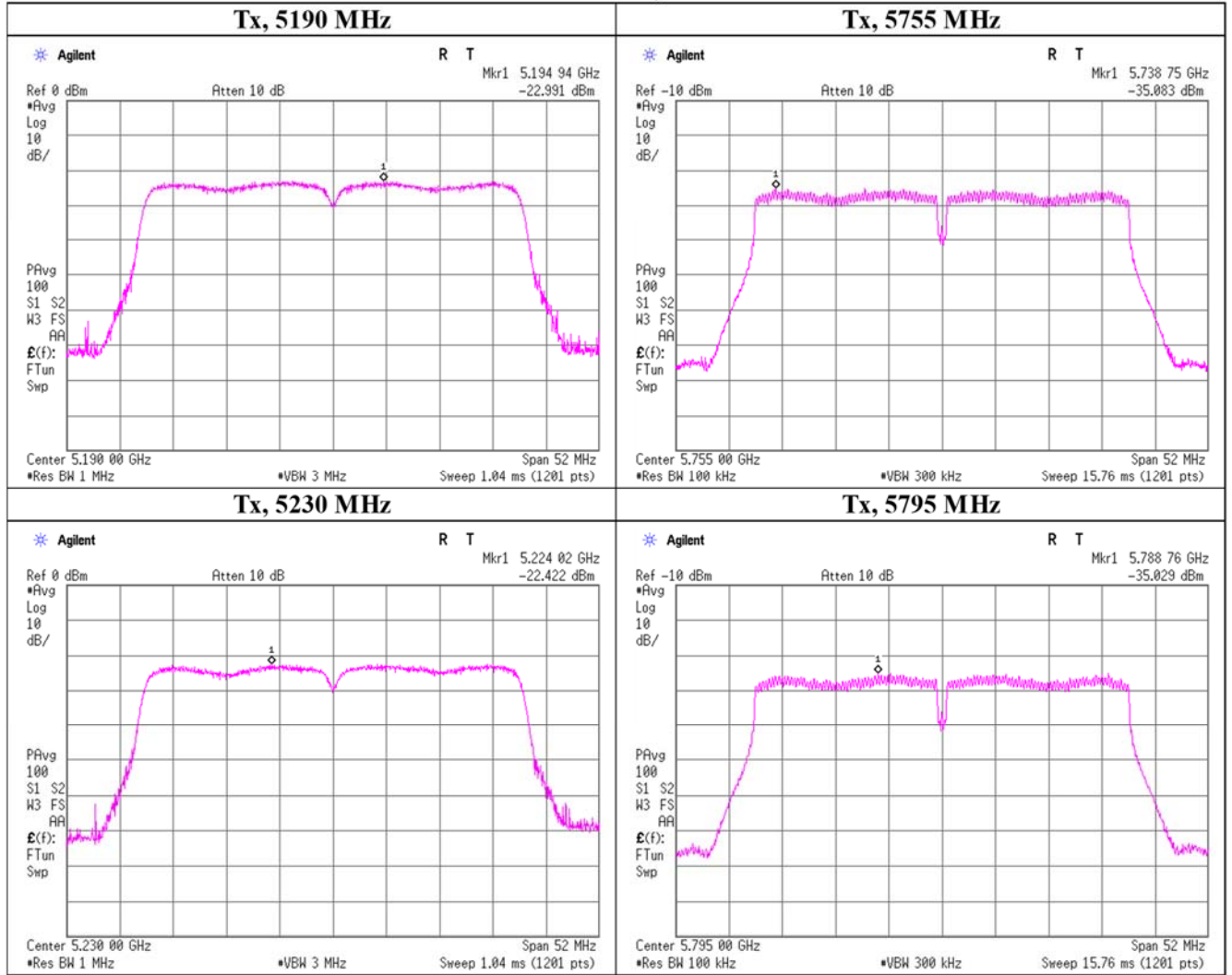
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Maximum Power Spectral Density

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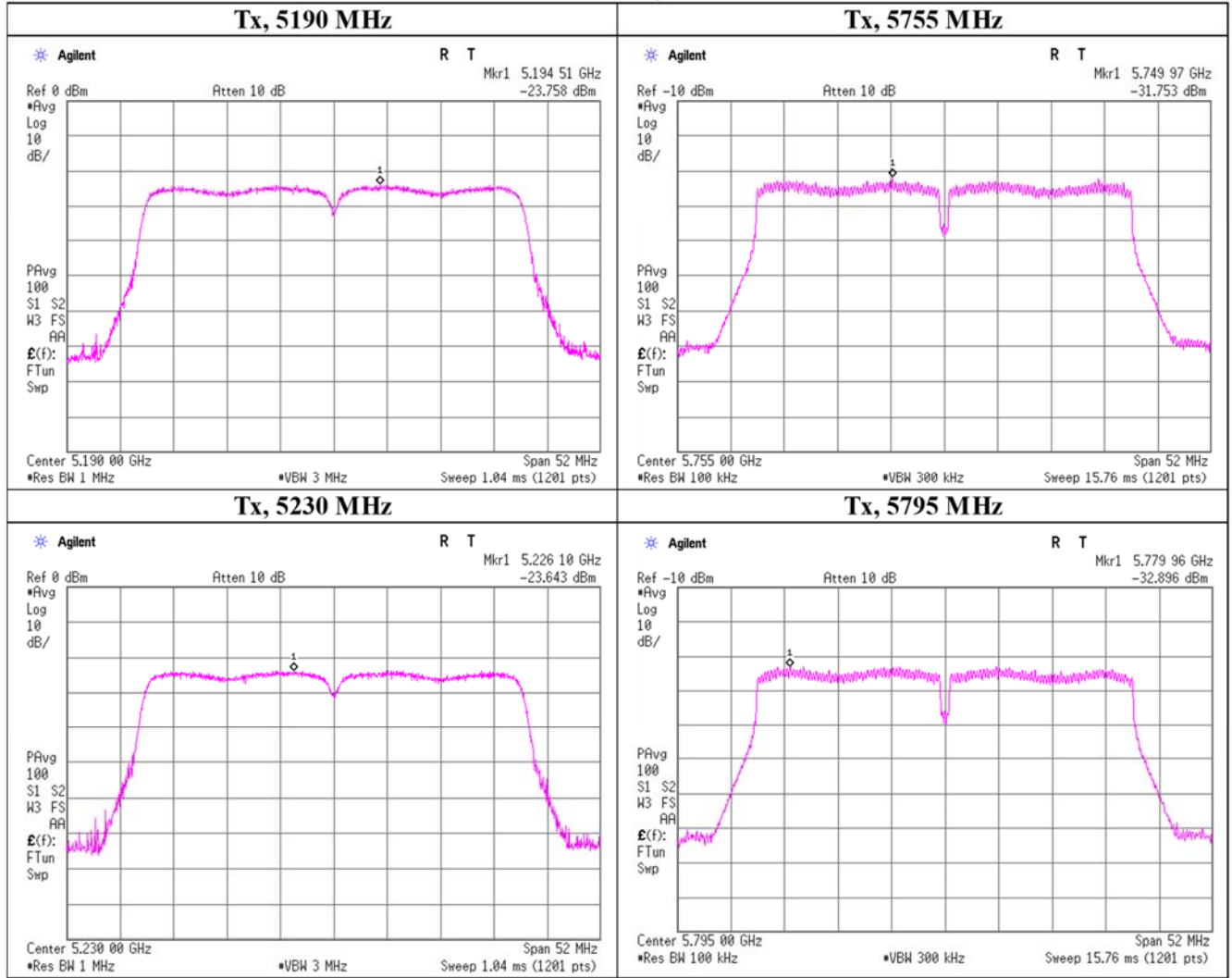
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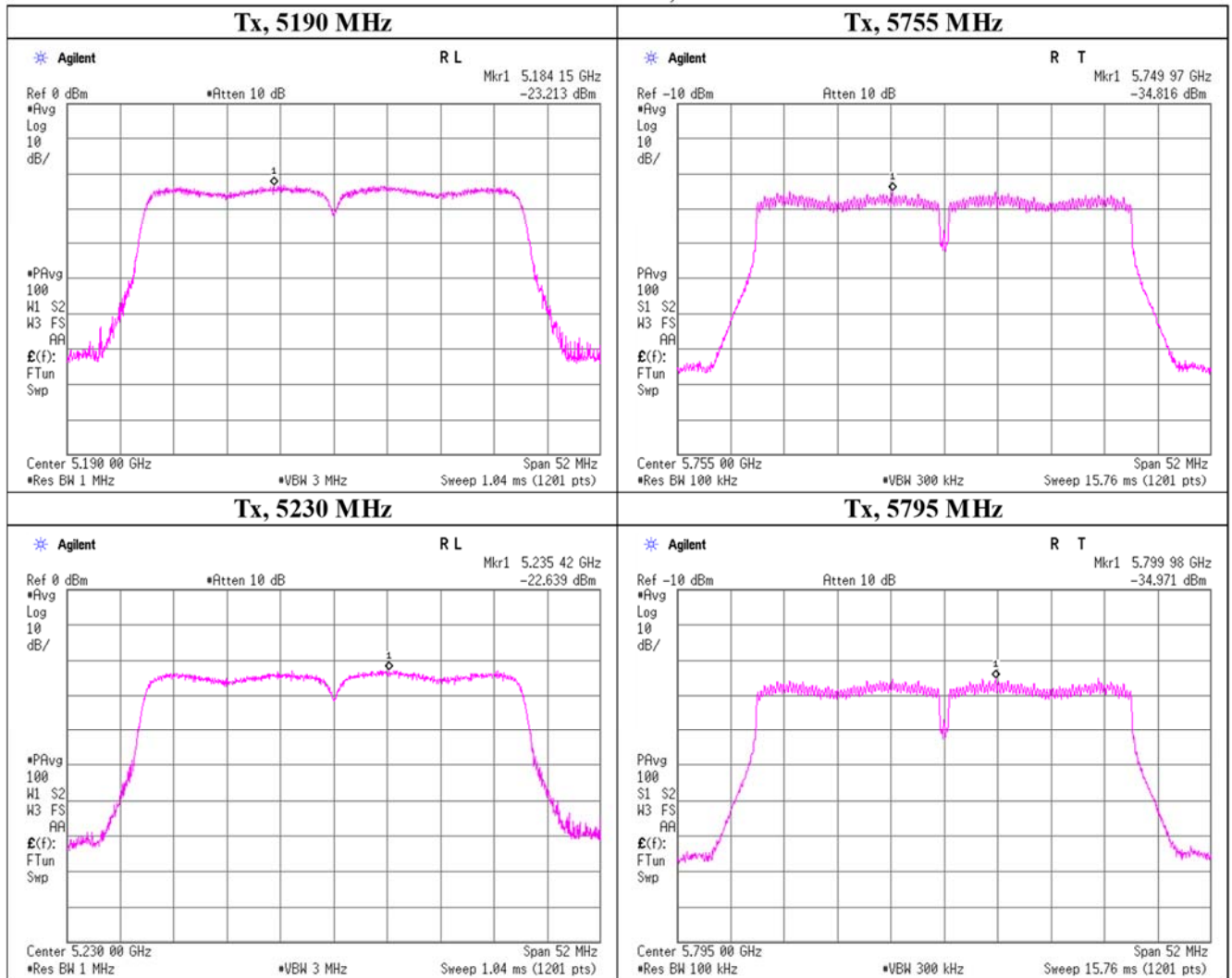
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Maximum Power Spectral Density

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