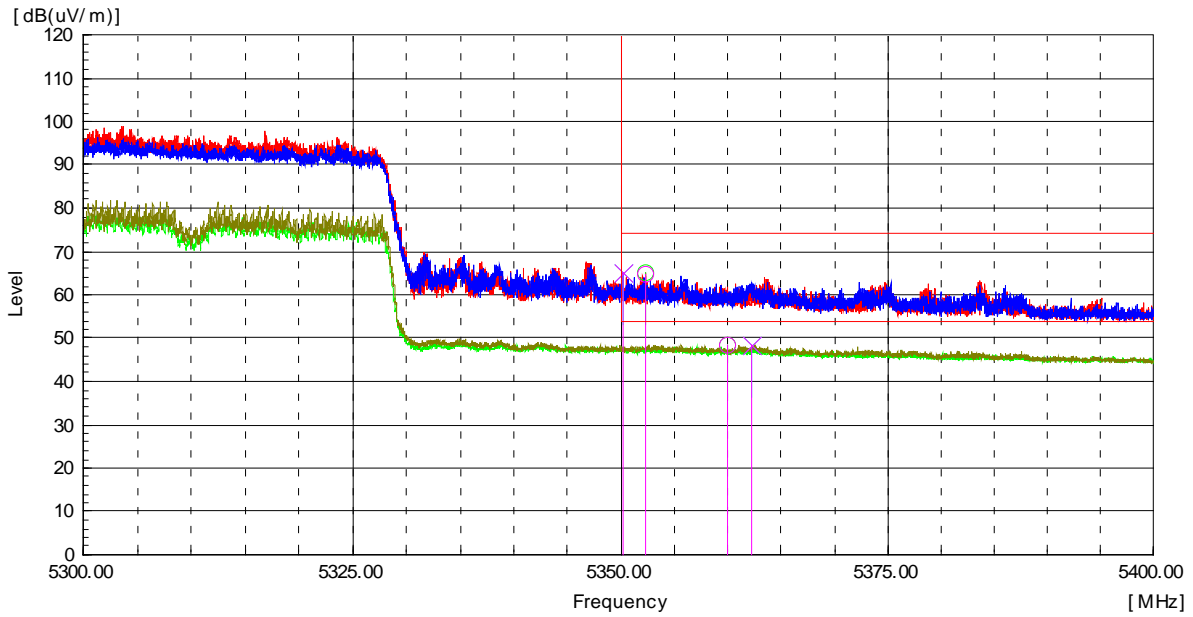


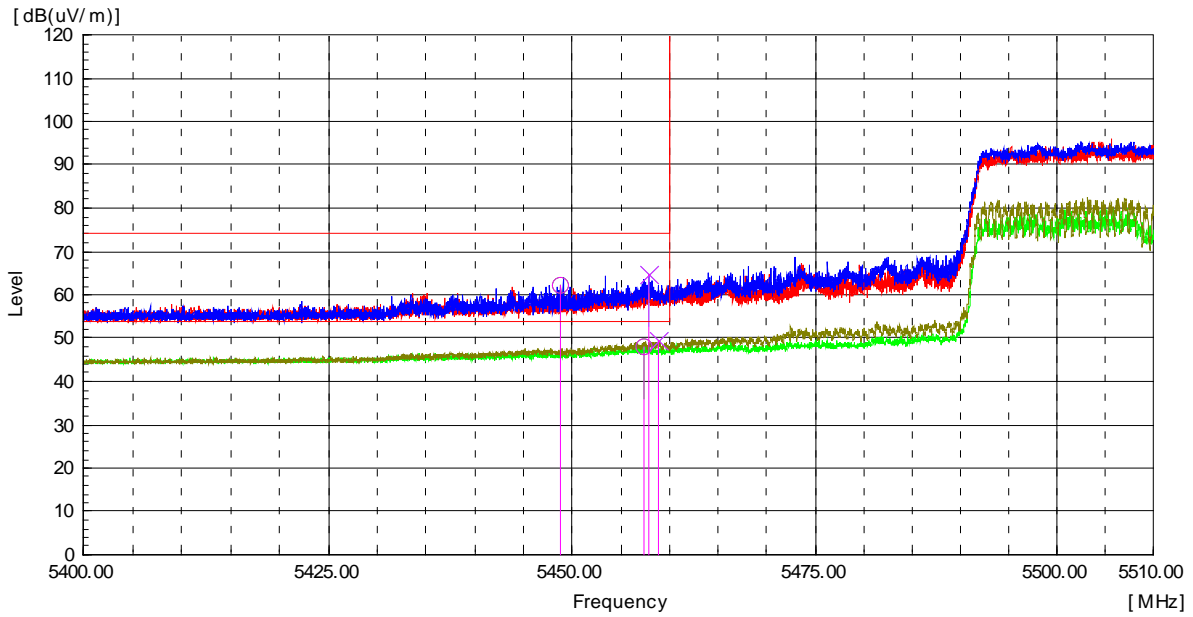
| | |
|----------------------------|----------------|
| Worst Case Mode : | 802.11ac_VHT80 |
| Worst Case Transfer Rate : | MNSS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 290 MHz |
| Channel : | 58 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 352.33 | H | 62.8 | ----- | 2.1 | 64.9 | ----- | ----- | 74.0 | ----- | 9.1 | ----- |
| 5 359.93 | H | ----- | 46.2 | 2.1 | ----- | 48.3 | 0.9 | ----- | 54.0 | ----- | 4.8 |
| 5 350.24 | V | 63.0 | ----- | 2.1 | 65.1 | ----- | ----- | 74.0 | ----- | 8.9 | ----- |
| 5 362.25 | V | ----- | 46.4 | 2.1 | ----- | 48.5 | 0.9 | ----- | 54.0 | ----- | 4.6 |

Radiated Restricted Band Edge Plot

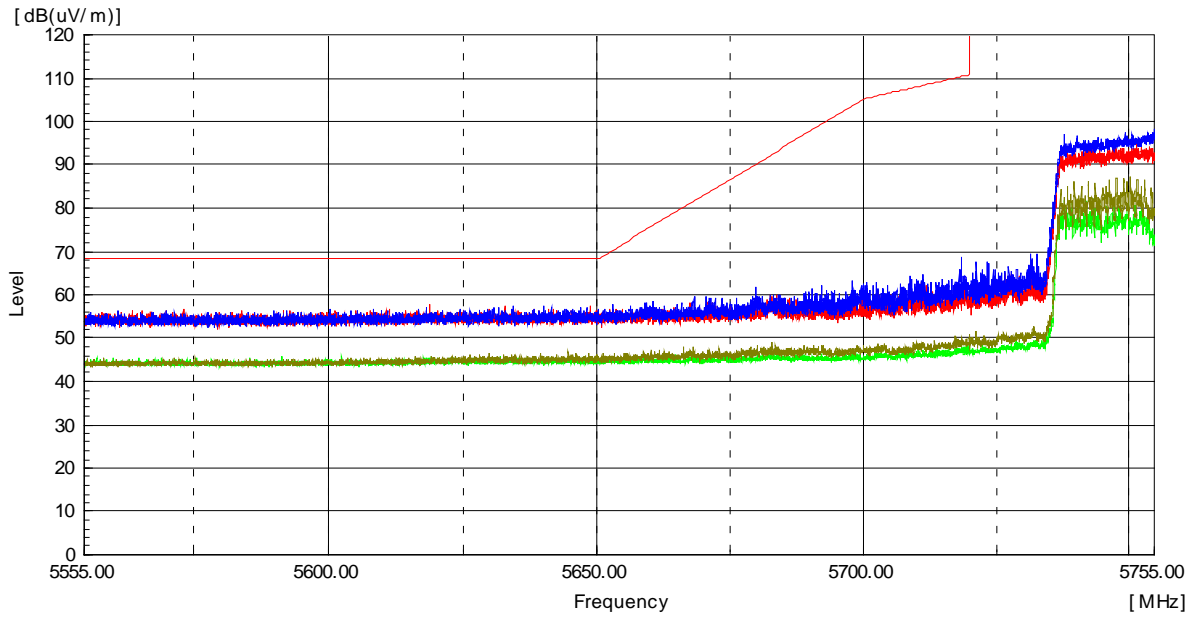
| | |
|----------------------------|----------------|
| Worst Case Mode : | 802.11ac_VHT80 |
| Worst Case Transfer Rate : | MNSS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 530 MHz |
| Channel : | 106 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 448.85 | H | 60.2 | ----- | 2.0 | 62.2 | ----- | ----- | 74.0 | ----- | 11.8 | ----- |
| 5 457.45 | H | ----- | 46.1 | 2.0 | ----- | 48.1 | 0.9 | ----- | 54.0 | ----- | 5.0 |
| 5 457.83 | V | 62.7 | ----- | 2.0 | 64.7 | ----- | ----- | 74.0 | ----- | 9.3 | ----- |
| 5 458.91 | V | ----- | 47.6 | 2.0 | ----- | 49.6 | 0.9 | ----- | 54.0 | ----- | 3.5 |

Radiated Restricted Band Edge Plot

| | |
|----------------------------|----------------|
| Worst Case Mode : | 802.11ac_VHT80 |
| Worst Case Transfer Rate : | MNSS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |

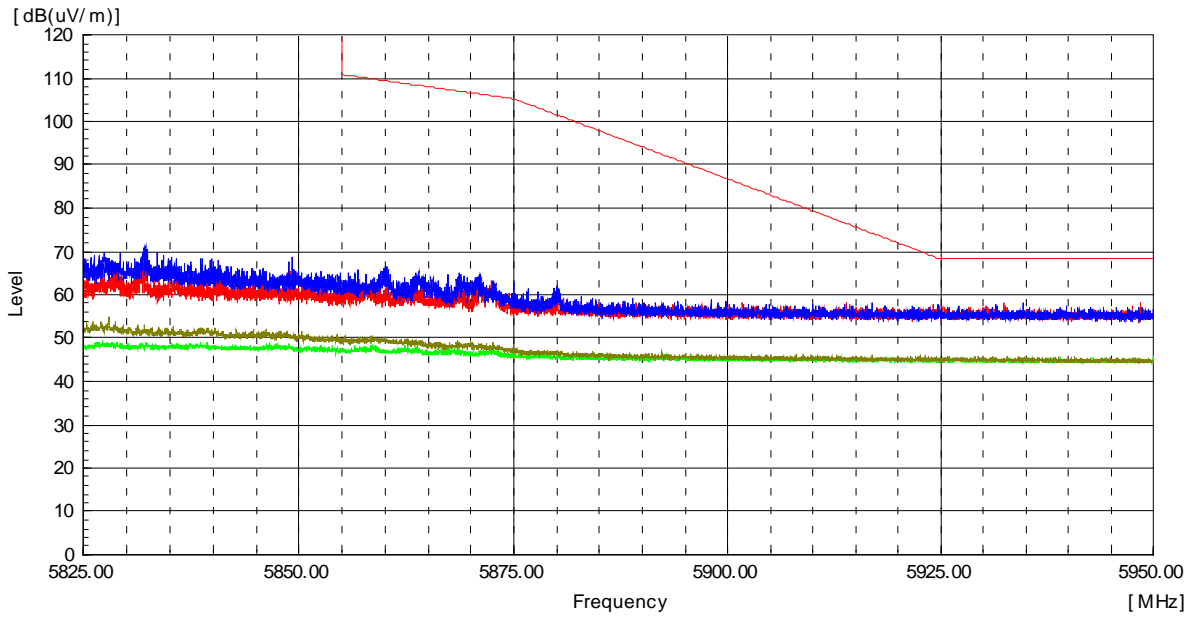


| Frequency [MHz] | Reading (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-------------|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-------------|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

| | |
|----------------------------|----------------|
| Worst Case Mode : | 802.11ac_VHT80 |
| Worst Case Transfer Rate : | MNSS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |



| Frequency [MHz] | Reading (P) PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



Test mode : Transmitter, 802.11ax_HE80_SU

The requirements are:

Complies

Test Data

Ch.42(5 210 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 15 648.65 | H | 47.8 | ----- | 11.2 | 59.0 | ----- | ----- | 74.0 | ----- | 15.0 | ----- |
| 15 705.01 | H | ----- | 36.5 | 11.2 | ----- | 47.7 | 0.9 | ----- | 54.0 | ----- | 5.4 |
| 15 685.81 | V | 48.5 | ----- | 11.2 | 59.7 | ----- | ----- | 74.0 | ----- | 14.3 | ----- |
| 15 650.90 | V | ----- | 37.0 | 11.2 | ----- | 48.2 | 0.9 | ----- | 54.0 | ----- | 4.9 |

Ch.58(5 290 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 10 560.85 | H | 46.3 | ----- | 7.1 | 53.4 | ----- | ----- | 74.0 | ----- | 20.6 | ----- |
| 10 611.47 | H | ----- | 35.4 | 7.2 | ----- | 42.6 | 0.9 | ----- | 54.0 | ----- | 10.5 |
| 10 601.86 | V | 47.9 | ----- | 7.2 | 55.1 | ----- | ----- | 74.0 | ----- | 18.9 | ----- |
| 10 601.18 | V | ----- | 35.5 | 7.2 | ----- | 42.7 | 0.9 | ----- | 54.0 | ----- | 10.4 |

Ch.106(5 530 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 11 068.96 | H | 46.9 | ----- | 7.9 | 54.8 | ----- | ----- | 74.0 | ----- | 19.2 | ----- |
| 11 038.75 | H | ----- | 35.4 | 7.8 | ----- | 43.2 | 0.9 | ----- | 54.0 | ----- | 9.9 |
| 11 041.11 | V | 47.0 | ----- | 7.8 | 54.8 | ----- | ----- | 74.0 | ----- | 19.2 | ----- |
| 11 081.11 | V | ----- | 35.5 | 7.9 | ----- | 43.4 | 0.9 | ----- | 54.0 | ----- | 9.7 |

Ch.138(5 690 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.



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Ch.155(5 775 MHz)

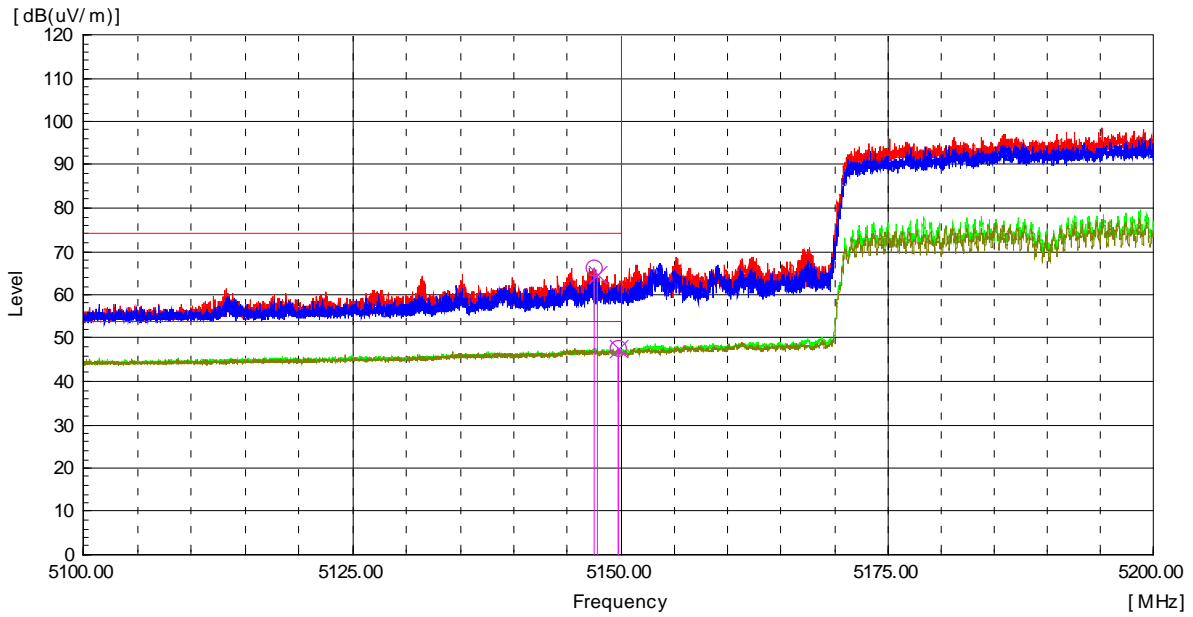
| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|--------------------|-----|-------------------------|-------------------------|------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|
|--------------------|-----|-------------------------|-------------------------|------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

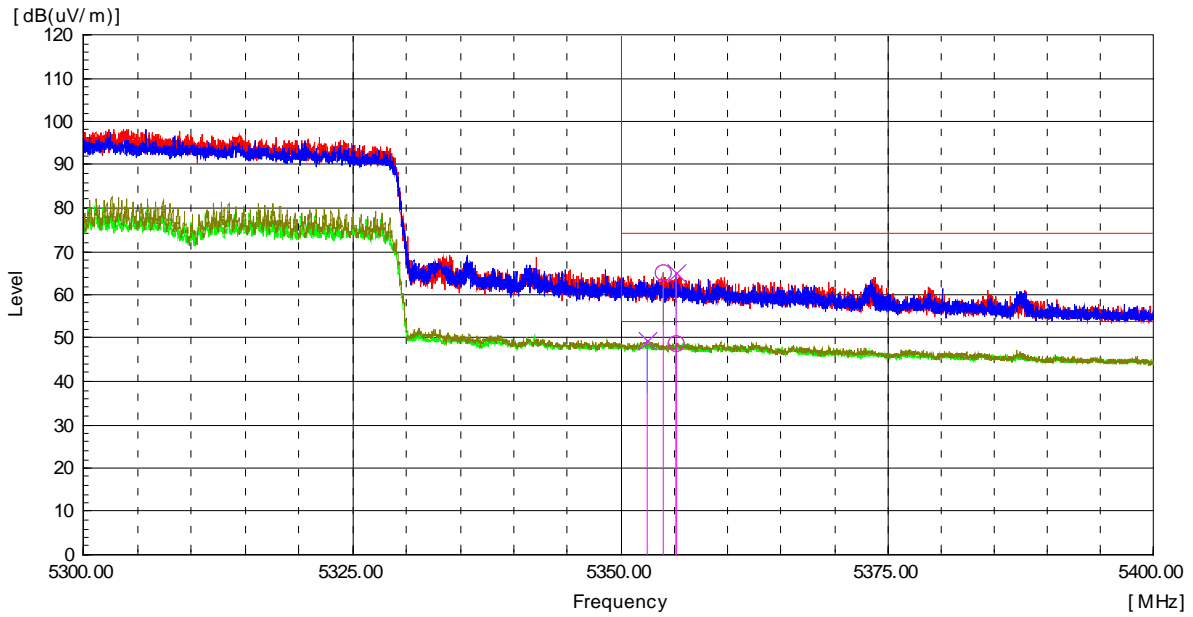
| | |
|----------------------------|------------------|
| Worst Case Mode : | 802.11ax_HE80_SU |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 210 MHz |
| Channel : | 42 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 147.55 | H | 64.9 | ----- | 1.4 | 66.3 | ----- | ----- | 74.0 | ----- | 7.7 | ----- |
| 5 149.73 | H | ----- | 46.1 | 1.4 | ----- | 47.5 | 0.9 | ----- | 54.0 | ----- | 5.6 |
| 5 147.79 | V | 63.2 | ----- | 1.4 | 64.6 | ----- | ----- | 74.0 | ----- | 9.4 | ----- |
| 5 149.79 | V | ----- | 46.1 | 1.4 | ----- | 47.5 | 0.9 | ----- | 54.0 | ----- | 5.6 |

Radiated Restricted Band Edge Plot

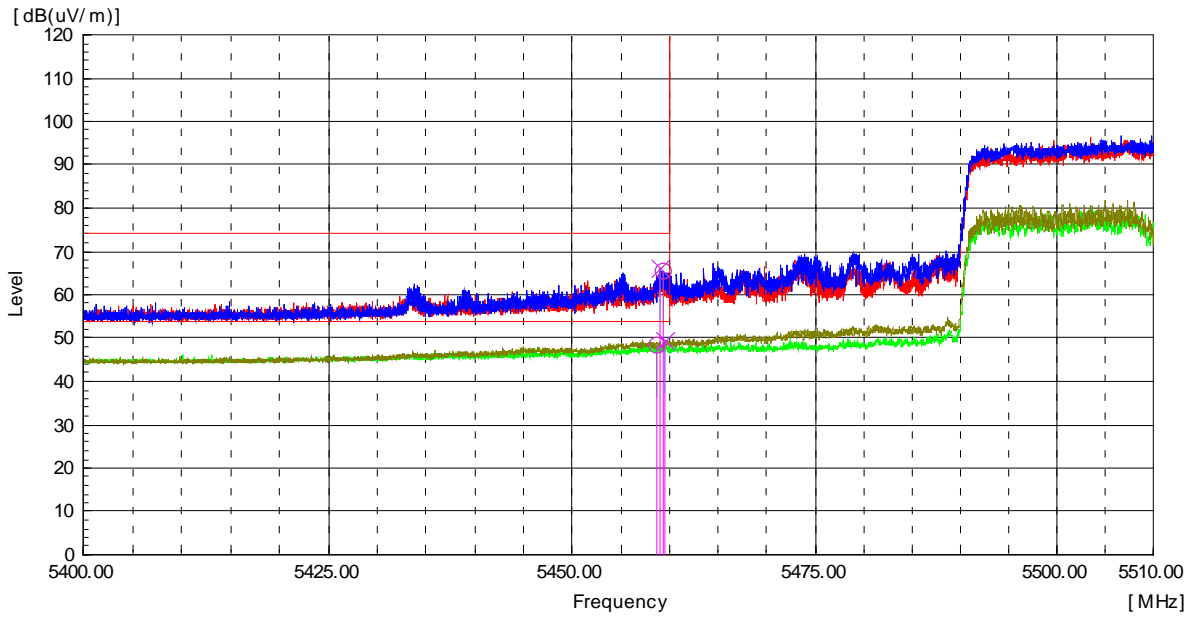
| | |
|----------------------------|------------------|
| Worst Case Mode : | 802.11ax_HE80_SU |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 290 MHz |
| Channel : | 58 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 354.01 | H | 63.1 | ----- | 2.1 | 65.2 | ----- | ----- | 74.0 | ----- | 8.8 | ----- |
| 5 355.15 | H | ----- | 46.8 | 2.1 | ----- | 48.9 | 0.9 | ----- | 54.0 | ----- | 4.2 |
| 5 355.24 | V | 63.0 | ----- | 2.1 | 65.1 | ----- | ----- | 74.0 | ----- | 8.9 | ----- |
| 5 352.51 | V | ----- | 47.4 | 2.1 | ----- | 49.5 | 0.9 | ----- | 54.0 | ----- | 3.6 |

Radiated Restricted Band Edge Plot

| | |
|----------------------------|------------------|
| Worst Case Mode : | 802.11ax_HE80_SU |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 530 MHz |
| Channel : | 106 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 459.33 | H | 63.3 | ----- | 2.0 | 65.3 | ----- | ----- | 74.0 | ----- | 8.7 | ----- |
| 5 458.69 | H | ----- | 46.4 | 2.0 | ----- | 48.4 | 0.9 | ----- | 54.0 | ----- | 4.7 |
| 5 459.06 | V | 64.0 | ----- | 2.0 | 66.0 | ----- | ----- | 74.0 | ----- | 8.0 | ----- |
| 5 459.46 | V | ----- | 47.6 | 2.0 | ----- | 49.6 | 0.9 | ----- | 54.0 | ----- | 3.5 |

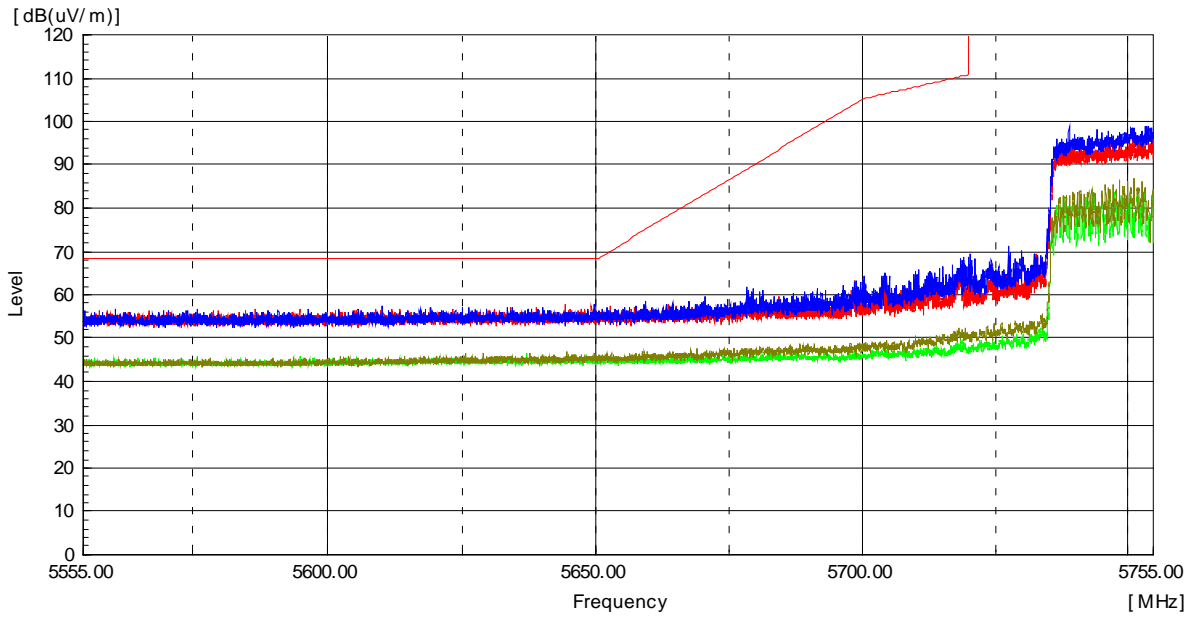
Radiated Restricted Band Edge Plot



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| | |
|----------------------------|------------------|
| Worst Case Mode : | 802.11ax_HE80_SU |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |



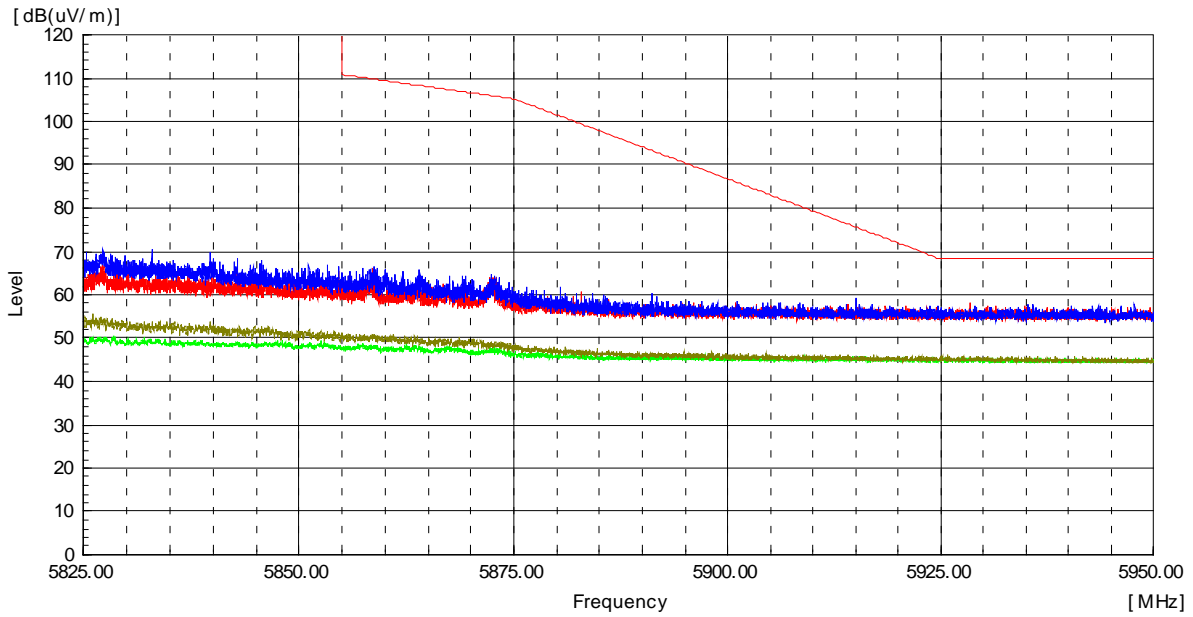
| Frequency [MHz] | Reading (P) PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



| | |
|----------------------------|------------------|
| Worst Case Mode : | 802.11ax_HE80_SU |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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Report No.:
 CTK-2021-03418
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Test mode : Transmitter, 802.11ax_HE80_26T

The requirements are:

Complies

Test Data

Ch.42(5 210 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 10 420.83 | H | 48.5 | ----- | 7.3 | 55.8 | ----- | ----- | 74.0 | ----- | 18.2 | ----- |
| 10 419.81 | H | ----- | 36.7 | 7.3 | ----- | 44.2 | 0.2 | ----- | 54.0 | ----- | 9.8 |
| 10 437.19 | V | 46.3 | ----- | 7.1 | 53.4 | ----- | ----- | 74.0 | ----- | 20.6 | ----- |
| 10 419.81 | V | ----- | 34.9 | 7.3 | ----- | 42.4 | 0.2 | ----- | 54.0 | ----- | 11.6 |

Ch.58(5 290 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 10 579.11 | H | 52.7 | ----- | 7.3 | 60.0 | ----- | ----- | 74.0 | ----- | 14.0 | ----- |
| 10 579.96 | H | ----- | 41.9 | 7.3 | ----- | 49.4 | 0.2 | ----- | 54.0 | ----- | 4.6 |
| 10 578.27 | V | 48.3 | ----- | 7.3 | 55.6 | ----- | ----- | 74.0 | ----- | 18.4 | ----- |
| 10 579.79 | V | ----- | 37.7 | 7.3 | ----- | 45.2 | 0.2 | ----- | 54.0 | ----- | 8.8 |

Ch.106(5 530 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 11 059.54 | H | 49.5 | ----- | 7.9 | 57.4 | ----- | ----- | 74.0 | ----- | 16.6 | ----- |
| 11 059.71 | H | ----- | 38.2 | 7.9 | ----- | 46.3 | 0.2 | ----- | 54.0 | ----- | 7.7 |
| 11 060.22 | V | 49.3 | ----- | 7.9 | 57.2 | ----- | ----- | 74.0 | ----- | 16.8 | ----- |
| 11 059.71 | V | ----- | 36.8 | 7.9 | ----- | 44.9 | 0.2 | ----- | 54.0 | ----- | 9.1 |

Ch.138(5 690 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 11 379.83 | H | 49.6 | ----- | 8.8 | 58.4 | ----- | ----- | 74.0 | ----- | 15.6 | ----- |
| 11 380.00 | H | ----- | 36.9 | 8.8 | ----- | 45.9 | 0.2 | ----- | 54.0 | ----- | 8.1 |
| 11 378.14 | V | 50.5 | ----- | 8.8 | 59.3 | ----- | ----- | 74.0 | ----- | 14.7 | ----- |
| 11 380.00 | V | ----- | 39.2 | 8.8 | ----- | 48.2 | 0.2 | ----- | 54.0 | ----- | 5.8 |



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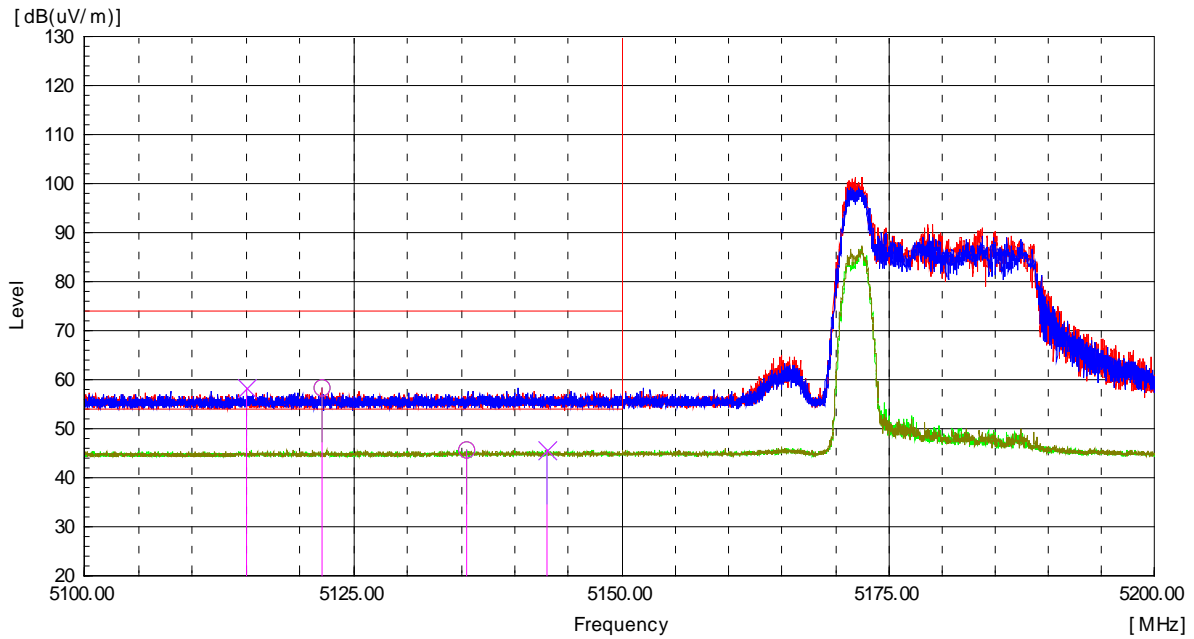
Ch.155(5 775 MHz)

| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 11 549.93 | H | 51.6 | ----- | 8.7 | 60.3 | ----- | ----- | 74.0 | ----- | 13.7 | ----- |
| 11 549.93 | H | ----- | 38.5 | 8.7 | ----- | 47.4 | 0.2 | ----- | 54.0 | ----- | 6.6 |
| 11 551.28 | V | 51.4 | ----- | 8.7 | 60.1 | ----- | ----- | 74.0 | ----- | 13.9 | ----- |
| 11 549.93 | V | ----- | 40.5 | 8.7 | ----- | 49.4 | 0.2 | ----- | 54.0 | ----- | 4.6 |

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

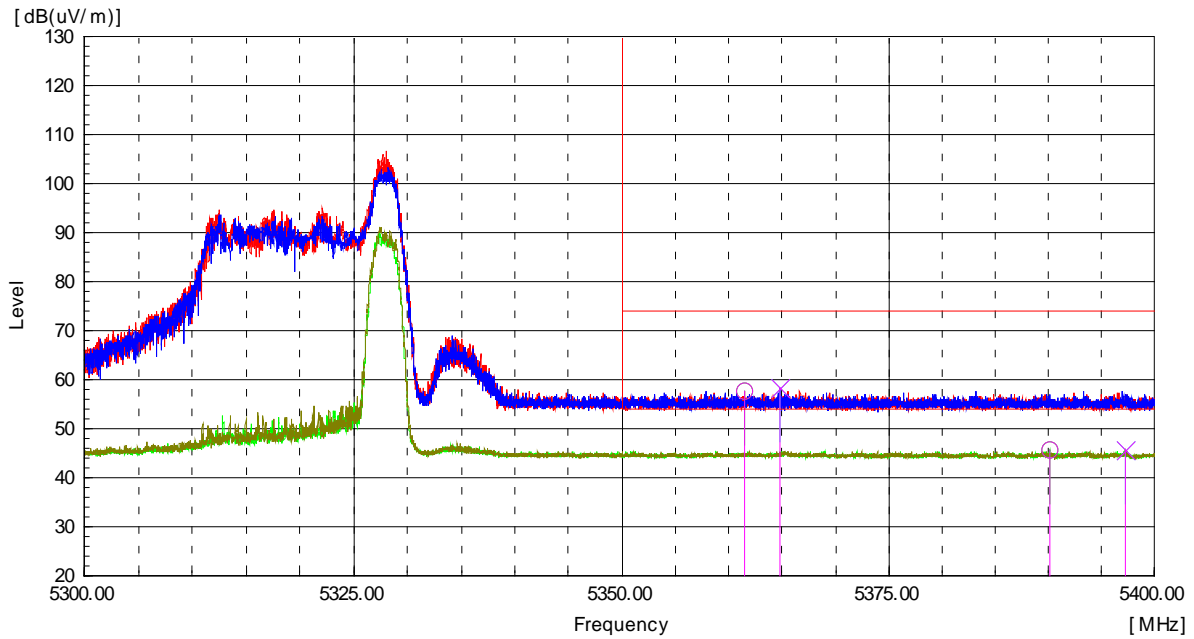
| | |
|----------------------------|-------------------|
| Worst Case Mode : | 802.11ax_HE80_26T |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 210 MHz |
| Channel : | 42 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 122.01 | H | 56.4 | ----- | 1.9 | 58.3 | ----- | ----- | 74.0 | ----- | 15.7 | ----- |
| 5 135.49 | H | ----- | 43.7 | 2.0 | ----- | 45.9 | 0.2 | ----- | 54.0 | ----- | 8.1 |
| 5 115.10 | V | 56.5 | ----- | 1.9 | 58.4 | ----- | ----- | 74.0 | ----- | 15.6 | ----- |
| 5 143.00 | V | ----- | 43.8 | 2.0 | ----- | 46.0 | 0.2 | ----- | 54.0 | ----- | 8.0 |

Radiated Restricted Band Edge Plot

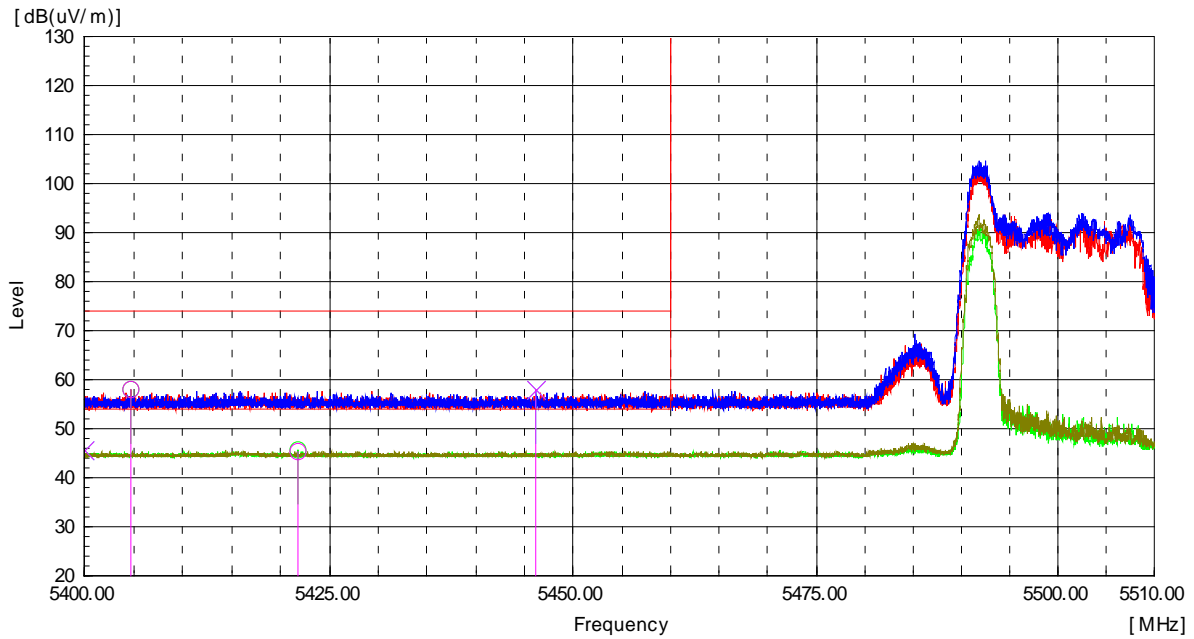
| | |
|----------------------------|-------------------|
| Worst Case Mode : | 802.11ax_HE80_26T |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 290 MHz |
| Channel : | 58 |



| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 361.51 | H | 55.4 | ----- | 2.2 | 57.6 | ----- | ----- | 74.0 | ----- | 16.4 | ----- |
| 5 390.09 | H | ----- | 43.5 | 2.2 | ----- | 45.9 | 0.2 | ----- | 54.0 | ----- | 8.1 |
| 5 364.86 | V | 56.1 | ----- | 2.2 | 58.3 | ----- | ----- | 74.0 | ----- | 15.7 | ----- |
| 5 397.20 | V | ----- | 43.4 | 2.2 | ----- | 45.8 | 0.2 | ----- | 54.0 | ----- | 8.2 |

Radiated Restricted Band Edge Plot

| | |
|----------------------------|-------------------|
| Worst Case Mode : | 802.11ax_HE80_26T |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 530 MHz |
| Channel : | 106 |



| Frequency [MHz] | Reading (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-------------|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
| 5 404.70 | H | 55.7 | ----- | 2.2 | 57.9 | ----- | ----- | 74.0 | ----- | 16.1 | ----- |
| 5 421.79 | H | ----- | 43.3 | 2.2 | ----- | 45.7 | 0.2 | ----- | 54.0 | ----- | 8.3 |
| 5 446.17 | V | 55.9 | ----- | 2.1 | 58.0 | ----- | ----- | 74.0 | ----- | 16.0 | ----- |
| 5 400.00 | V | ----- | 43.4 | 2.2 | ----- | 45.8 | 0.2 | ----- | 54.0 | ----- | 8.2 |

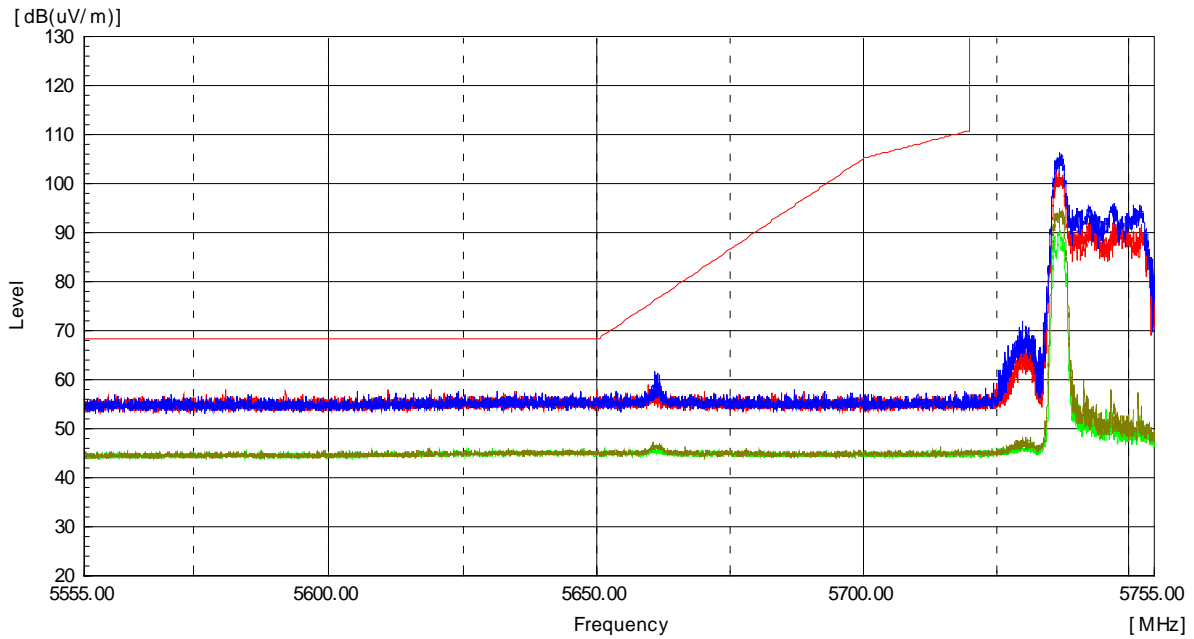
Radiated Restricted Band Edge Plot



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| | |
|----------------------------|-------------------|
| Worst Case Mode : | 802.11ax_HE80_26T |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |

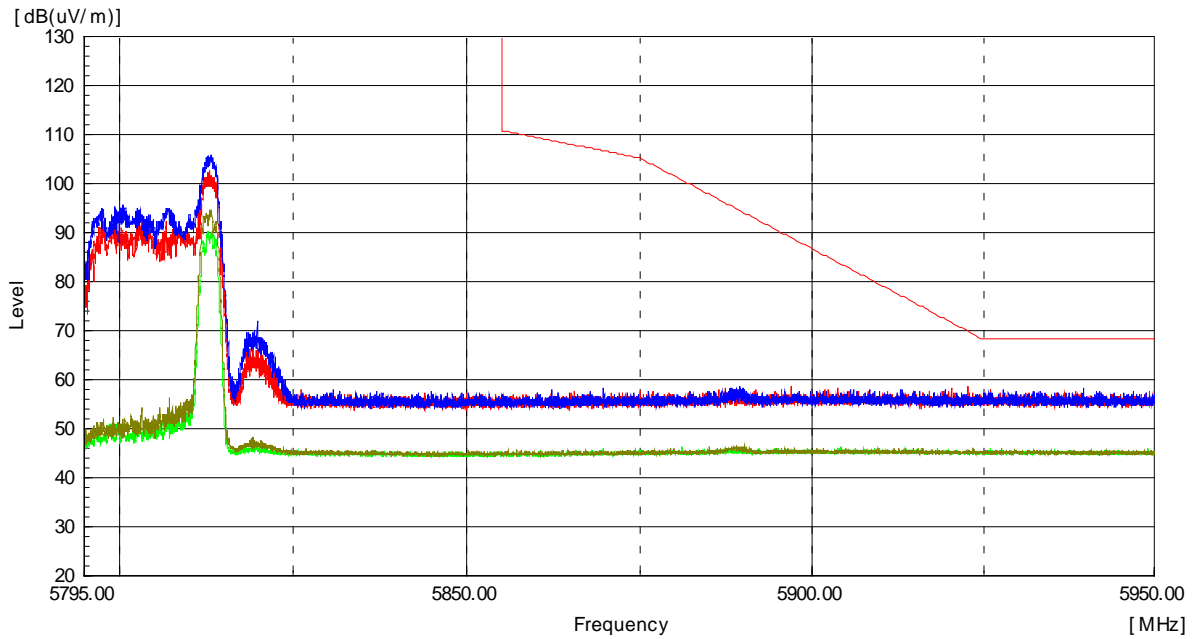


| Frequency [MHz] | Reading (P) PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-----------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

| | |
|----------------------------|-------------------|
| Worst Case Mode : | 802.11ax_HE80_26T |
| Worst Case Transfer Rate : | MCS 0 |
| Distance of Measurements : | 3 Meters |
| Operating Frequency : | 5 775 MHz |
| Channel : | 155 |

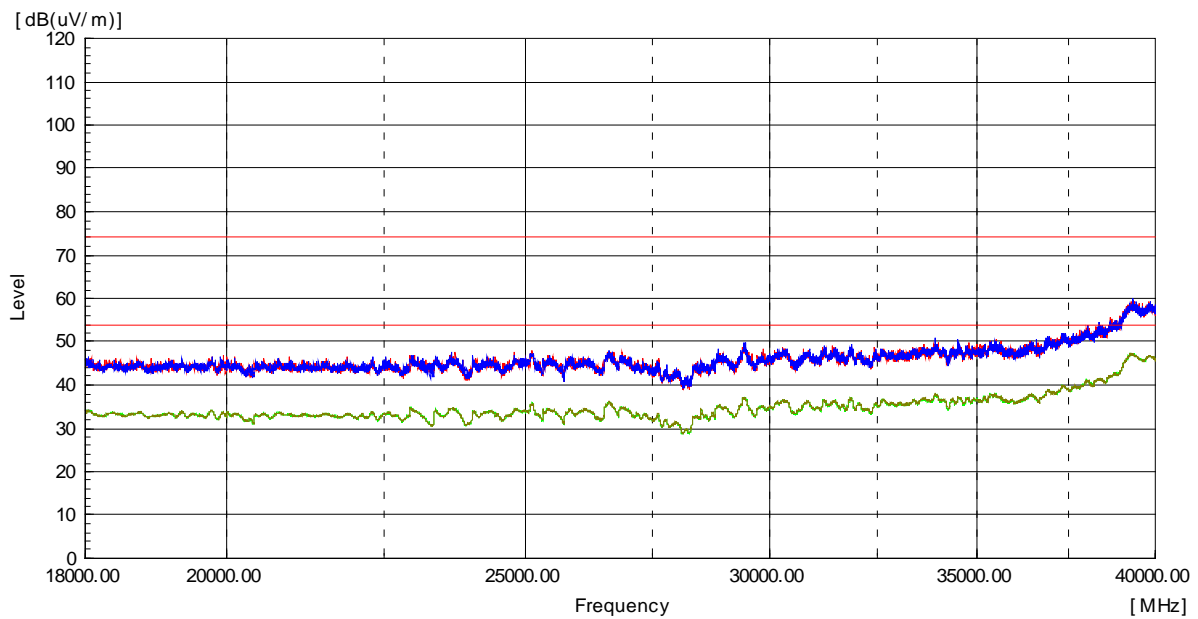
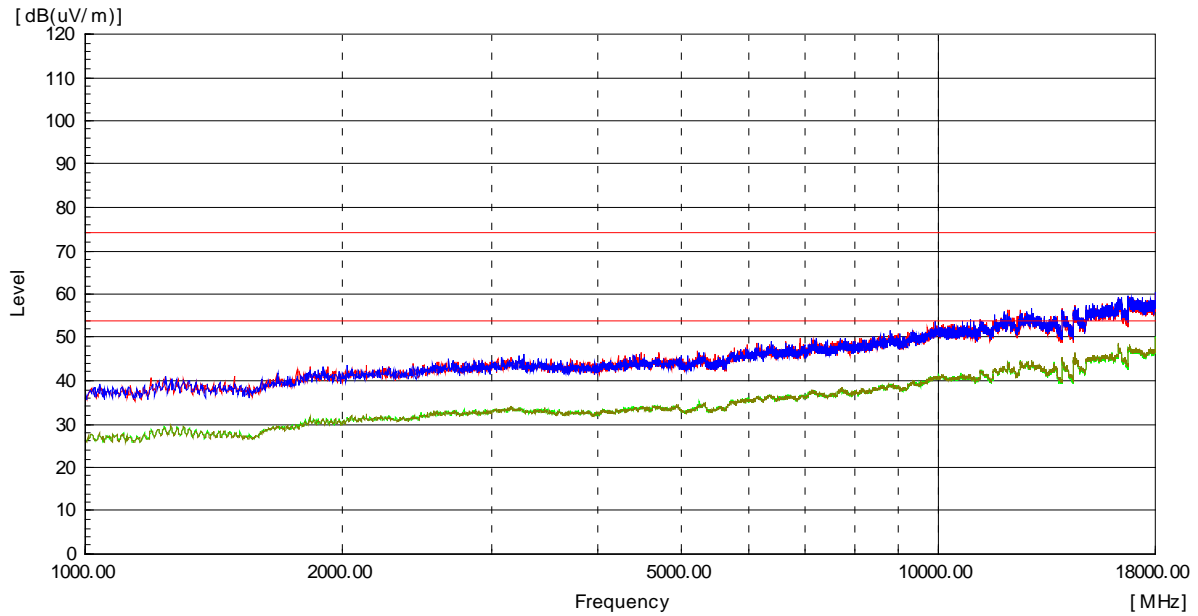


| Frequency [MHz] | Reading (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|-----------------|-------------|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|
|-----------------|-------------|-------------------|-------------------|---------------|---------------------|---------------------|------------------------|---------------------|---------------------|----------------|----------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

Test mode : Receiver (Worst Case)





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| Frequency [MHz] | (P) | Reading PK [dBuV] | Reading AV [dBuV] | c.f [dB(1/m)] | Level PK [dB(uV/m)] | Level AV [dB(uV/m)] | Duty Cycle Factor [dB] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin AV [dB] |
|--------------------|-----|-------------------------|-------------------------|------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|
|--------------------|-----|-------------------------|-------------------------|------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|----------------------|----------------------|

The emissions above 1 GHz were 20 dB lower than the limit.

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



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4.7 AC Conducted Emissions

Test Location

Shielded Room

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 ~ 0.5 | 66 to 56* | 56 to 46* |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

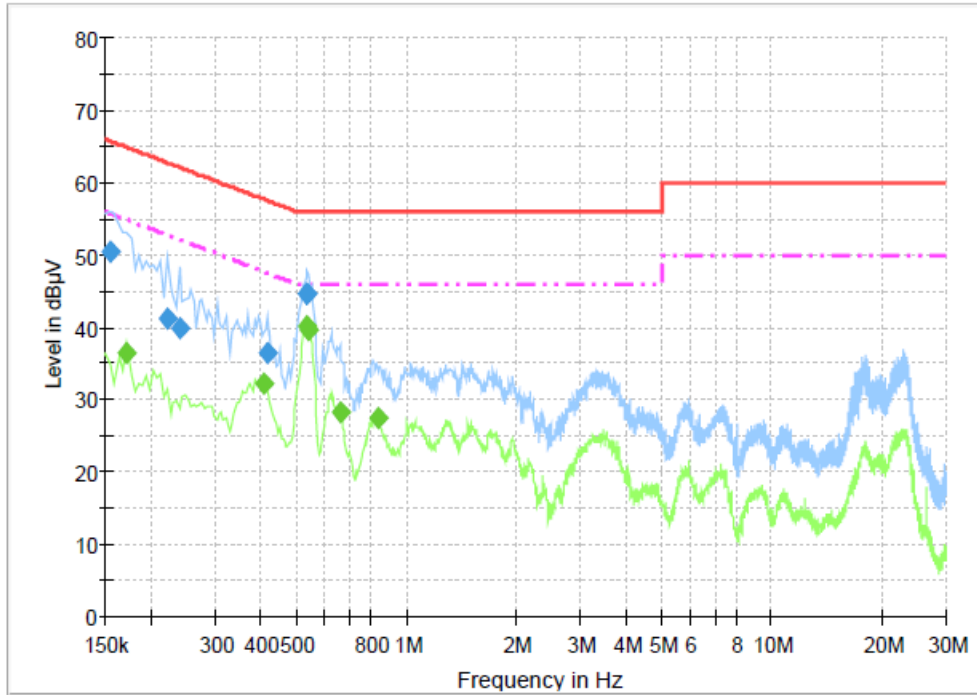
Test Results

The requirements are:

Complies

Test Data

[LINE]
3CE_Class B_L1



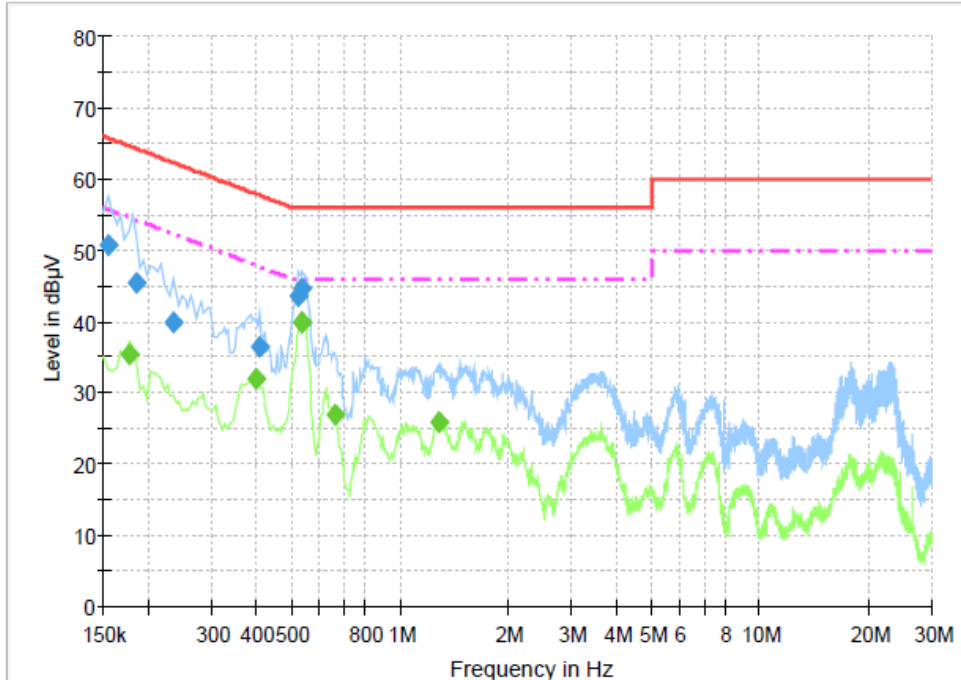
Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.154500 | 50.5 | 1000.0 | 9.000 | On | L1 | 9.8 | 15.3 | 65.8 |
| 0.222000 | 41.3 | 1000.0 | 9.000 | On | L1 | 9.8 | 21.5 | 62.7 |
| 0.240000 | 39.9 | 1000.0 | 9.000 | On | L1 | 9.7 | 22.2 | 62.1 |
| 0.415500 | 36.4 | 1000.0 | 9.000 | On | L1 | 10.0 | 21.1 | 57.5 |
| 0.532500 | 44.6 | 1000.0 | 9.000 | On | L1 | 10.0 | 11.4 | 56.0 |
| 0.537000 | 44.6 | 1000.0 | 9.000 | On | L1 | 10.0 | 11.4 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.172500 | 36.3 | 1000.0 | 9.000 | On | L1 | 9.8 | 18.5 | 54.8 |
| 0.406500 | 32.2 | 1000.0 | 9.000 | On | L1 | 10.0 | 15.5 | 47.7 |
| 0.532500 | 40.1 | 1000.0 | 9.000 | On | L1 | 10.0 | 5.9 | 46.0 |
| 0.541500 | 39.5 | 1000.0 | 9.000 | On | L1 | 10.0 | 6.5 | 46.0 |
| 0.663000 | 28.2 | 1000.0 | 9.000 | On | L1 | 9.9 | 17.8 | 46.0 |
| 0.838500 | 27.6 | 1000.0 | 9.000 | On | L1 | 9.8 | 18.4 | 46.0 |

[NEUTRAL]
3CE_Class B_N



Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.154500 | 50.6 | 1000.0 | 9.000 | On | N | 9.8 | 15.2 | 65.8 |
| 0.186000 | 45.3 | 1000.0 | 9.000 | On | N | 9.8 | 18.9 | 64.2 |
| 0.235500 | 39.9 | 1000.0 | 9.000 | On | N | 9.8 | 22.3 | 62.3 |
| 0.406500 | 36.5 | 1000.0 | 9.000 | On | N | 9.9 | 21.2 | 57.7 |
| 0.523500 | 43.5 | 1000.0 | 9.000 | On | N | 10.0 | 12.5 | 56.0 |
| 0.537000 | 44.6 | 1000.0 | 9.000 | On | N | 10.0 | 11.4 | 56.0 |

Final Result 2

| Frequency (MHz) | CAverage (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.177000 | 35.3 | 1000.0 | 9.000 | On | N | 9.8 | 19.3 | 54.6 |
| 0.397500 | 31.8 | 1000.0 | 9.000 | On | N | 9.9 | 16.1 | 47.9 |
| 0.532500 | 40.0 | 1000.0 | 9.000 | On | N | 10.0 | 6.0 | 46.0 |
| 0.537000 | 39.8 | 1000.0 | 9.000 | On | N | 10.0 | 6.2 | 46.0 |
| 0.663000 | 27.0 | 1000.0 | 9.000 | On | N | 9.9 | 19.0 | 46.0 |
| 1.284000 | 25.9 | 1000.0 | 9.000 | On | N | 9.8 | 20.1 | 46.0 |



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APPENDIX A – Test Equipment Used For Tests

| | Name of Equipment | Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date |
|----|-----------------------|-----------------|------------|---------------|---------------------|------------|
| 1 | Signal Analyzer | Agilent | N9020A | MY50200096 | 2021-01-24 | 2022-01-24 |
| 2 | Signal Analyzer | Agilent | N9020A | MY50510240 | 2021-07-19 | 2022-07-19 |
| 3 | Signal Generator | Rohde & Schwarz | SMB100A | 175528 | 2021-04-12 | 2022-04-12 |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESCI7 | 100814 | 2020-10-20 | 2021-10-20 |
| 5 | Bilog Antenna | Schaffner | CBL6111C | 2551 | 2020-05-26 | 2022-05-26 |
| 6 | Active Loop Antenna | SCHWARZBECK | FMZB 1513 | 1513-126 | 2020-05-20 | 2022-05-20 |
| 7 | 6dB Attenuator | R&S | DNF | 272.4110.50-2 | 2020-10-23 | 2021-10-23 |
| 8 | 6dB Attenuator | BIRD | 5W 6dB | 1744 | 2020-12-16 | 2021-12-16 |
| 9 | AMPLIFIER | SONOMA | 310 | 291721 | 2021-01-22 | 2022-01-22 |
| 10 | EMI Test Receiver | Rohde & Schwarz | ESU40 | 100336 | 2021-01-12 | 2022-01-12 |
| 11 | Preamplifier | Agilent | 8449B | 3008A01504 | 2019-12-17 | 2020-12-17 |
| 12 | Horn Antenna | ETS-Lindgren | 3117 | 00154525 | 2020-10-14 | 2021-10-14 |
| 13 | Horn Antenna | SCHWARZBECK | BBHA9170 | 00967 | 2021-05-25 | 2022-05-25 |
| 14 | Low Noise Amplifier | TESTEK | TK-PA1840H | 200115-L | 2021-05-21 | 2022-05-21 |
| 15 | Band Reject Filter | Micro Tronics | BRM50716 | G264 | 2021-03-30 | 2022-03-30 |
| 16 | LISN | Rohde & Schwarz | ENV216 | 101235 | 2021-01-12 | 2022-01-12 |
| 17 | Temp&Humi Chamber | ESPEC CORP. | SH-242 | 93008423 | 2021-05-03 | 2022-05-03 |
| 18 | Wide Bandwidth Sensor | Anritsu | MA2491A | 845498 | 2020-10-15 | 2021-10-15 |
| 19 | Power Meter | Anritsu | ML2488B | 924006 | 2020-10-15 | 2021-10-15 |

| | Cable | Manufacturer | Model No. | Serial No. | Check Date |
|----|----------|--------------------|--------------|------------|------------|
| 1 | RF Cable | Canare Corporation | L-5D2W | N/A | 2021-01-21 |
| 2 | RF Cable | Junkosha Inc. | MWX221 | 1512S127 | 2021-08-04 |
| 3 | RF Cable | Junkosha Inc. | MWX221 | 2005S319 | 2021-08-04 |
| 4 | RF Cable | HUBER+SUHNER | SUCOFLEX 102 | MY073/2 | 2021-06-01 |
| 5 | RF Cable | HUBER+SUHNER | SUCOFLEX 104 | MY27558/4 | 2021-06-01 |
| 6 | RF Cable | HUBER+SUHNER | SUCOFLEX 104 | N/A | 2021-06-01 |
| 7 | RF Cable | HUBER+SUHNER | SUCOFLEX 104 | MY27573/4 | 2021-06-01 |
| 8 | RF Cable | HUBER+SUHNER | SUCOFLEX 106 | N/A | 2021-06-01 |
| 9 | RF Cable | HUBER+SUHNER | SUCOFLEX 102 | 803010/2 | 2020-10-16 |
| 10 | RF Cable | HUBER+SUHNER | SUCOFLEX 102 | 803742/2 | 2020-10-16 |
| 11 | RF Cable | HUBER+SUHNER | SUCOFLEX 102 | MY2374/2 | 2021-06-01 |
| 12 | RF Cable | HUBER+SUHNER | SUCOFLEX 102 | MY4728/2 | 2021-06-01 |