

3.5 Spurious Emission, Band edge and Restricted Bands

3.5.1 Regulation

§15.407(b) : Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

§15.209(a) : Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

§15.205(a) : Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

§15.205 (b) : Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

3.5.2 Test Procedure

Primary method

The procedure for method AD is as follows:

- a) RBW = 1 MHz.
- b) VBW \geq [3 \times RBW].
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \leq RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
 - 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
 - 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Procedure for unwanted emissions measurements below 1 000 MHz

The procedure for unwanted emissions measurements below 1 000 MHz is as follows:

- a) Follow the requirements in 12.7.4.
- b) Compliance shall be determined using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

Procedure for unwanted emissions measurements above 1 000 MHz

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

- a) Follow the requirements in 12.7.4.
- b) Peak emission levels are measured by setting the instrument as follows:
 - 1) RBW = 1 MHz.
 - 2) VBW \geq [3 \times RBW].
 - 3) Detector = peak
 - 4) Sweep time = auto.
 - 5) Trace mode = max hold.
 - 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately 1 / D, where D is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two, relative to measurement time for continuous transmission.

Average Measurement Method above 1GHz (Method AD)

- 1) Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2) RBW = 1 MHz
- 3) VBW = 3 MHz
- 4) Detector = power average (RMS)
- 5) Number of measurement points = Number of points must be $\geq 2 \times \text{span} / \text{RBW}$
- 6) Averaging type = power (RMS)
- 7) Sweep time = auto couple
- 8) Trace was averaged over 100 sweeps

Peak Measurement Method above 1GHz

- 1) Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2) RBW = 1 MHz
- 3) VBW = 3 MHz
- 4) Detector = Peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Trace was allowed to stabilize

Peak Measurement Method below 1GHz

- 1) Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2) Span was set greater than 1 MHz
- 3) RBW = 120 kHz
- 4) Detector = CISPR Quasi-peak
- 5) Sweep time = auto couple

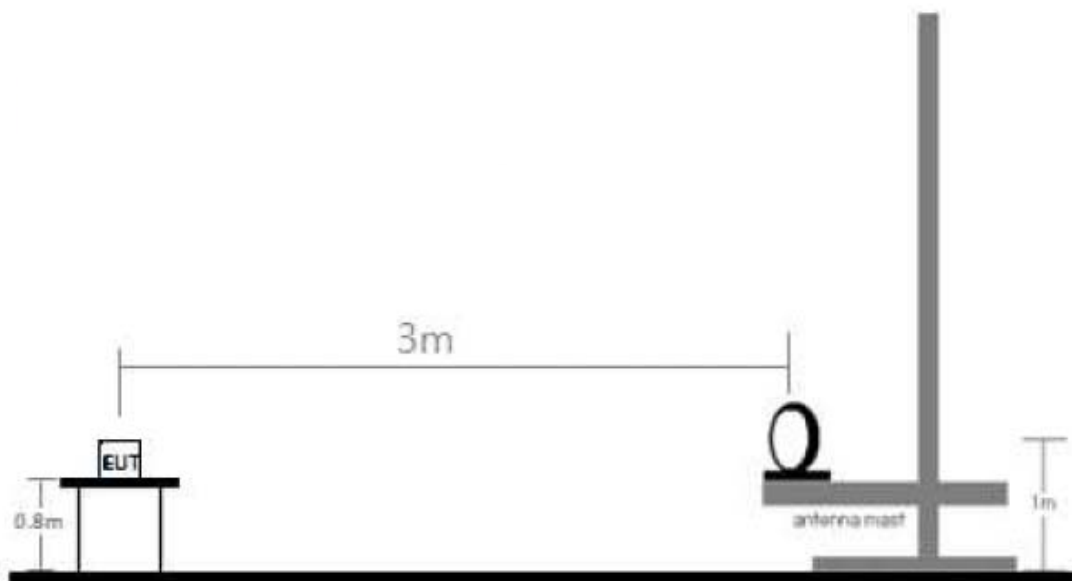
- Sample Calculation

- Field Strength Level [dB μ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m] + Duty Cycle Correction [dB]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable loss [dB]
- Margin [dB] = Field Strength Level [dB μ V/m] – Limit [dB μ V/m]

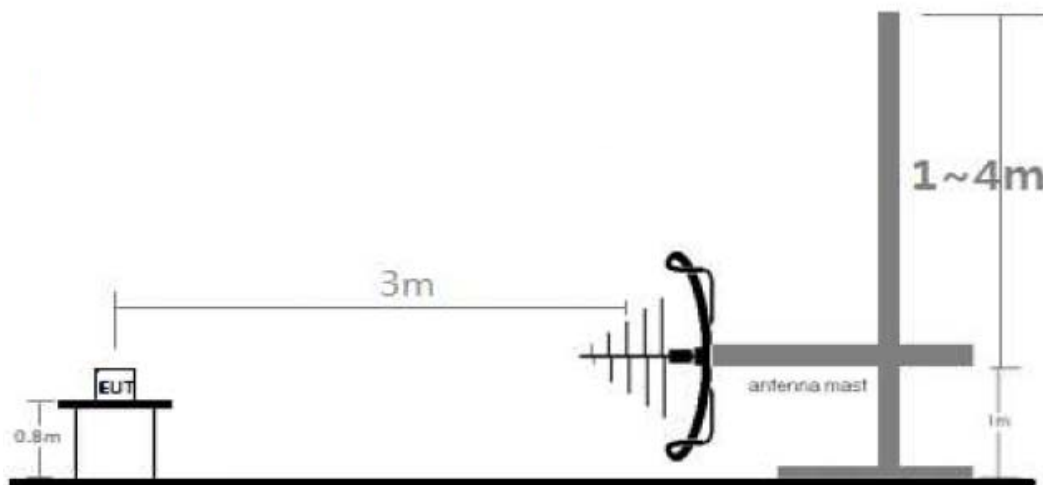
3.5.3 Deviation from Test Standard

No deviation.

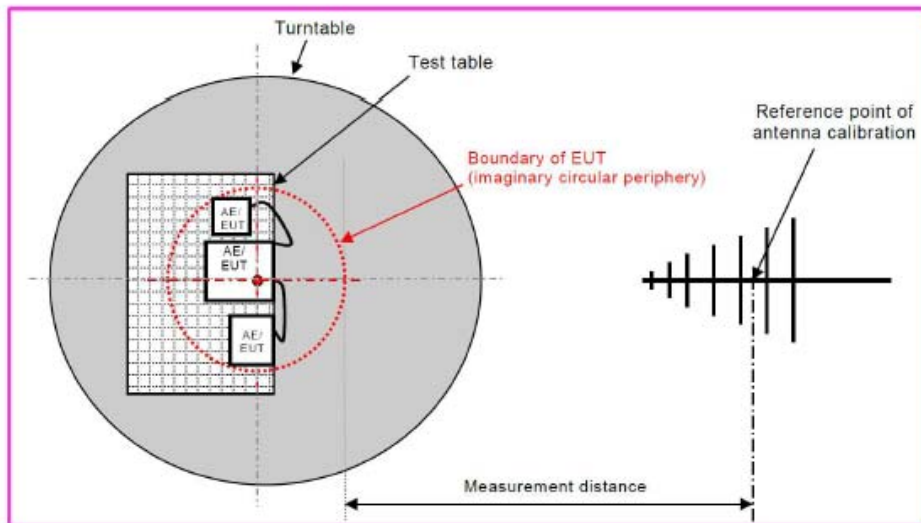
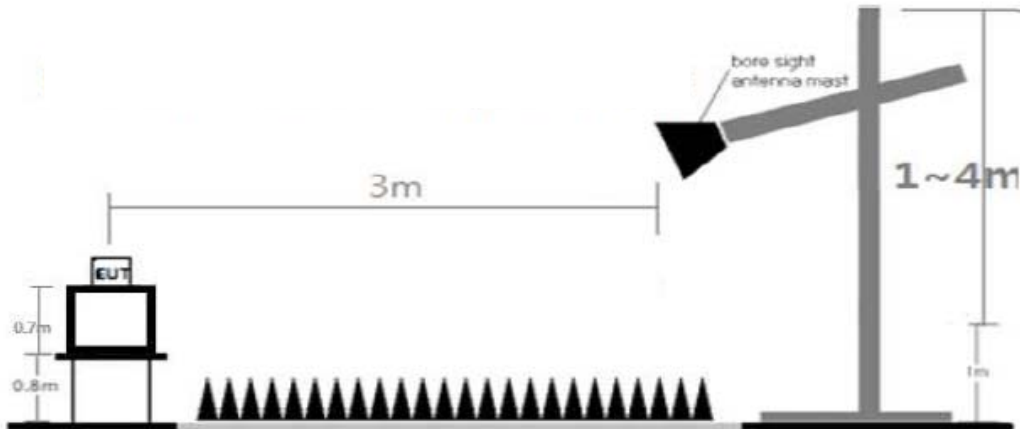
3.5.4 Test Setup



[Radiated Emission Test Setup Below 30 MHz]



[Radiated Emission Test Setup Below 1 GHz]



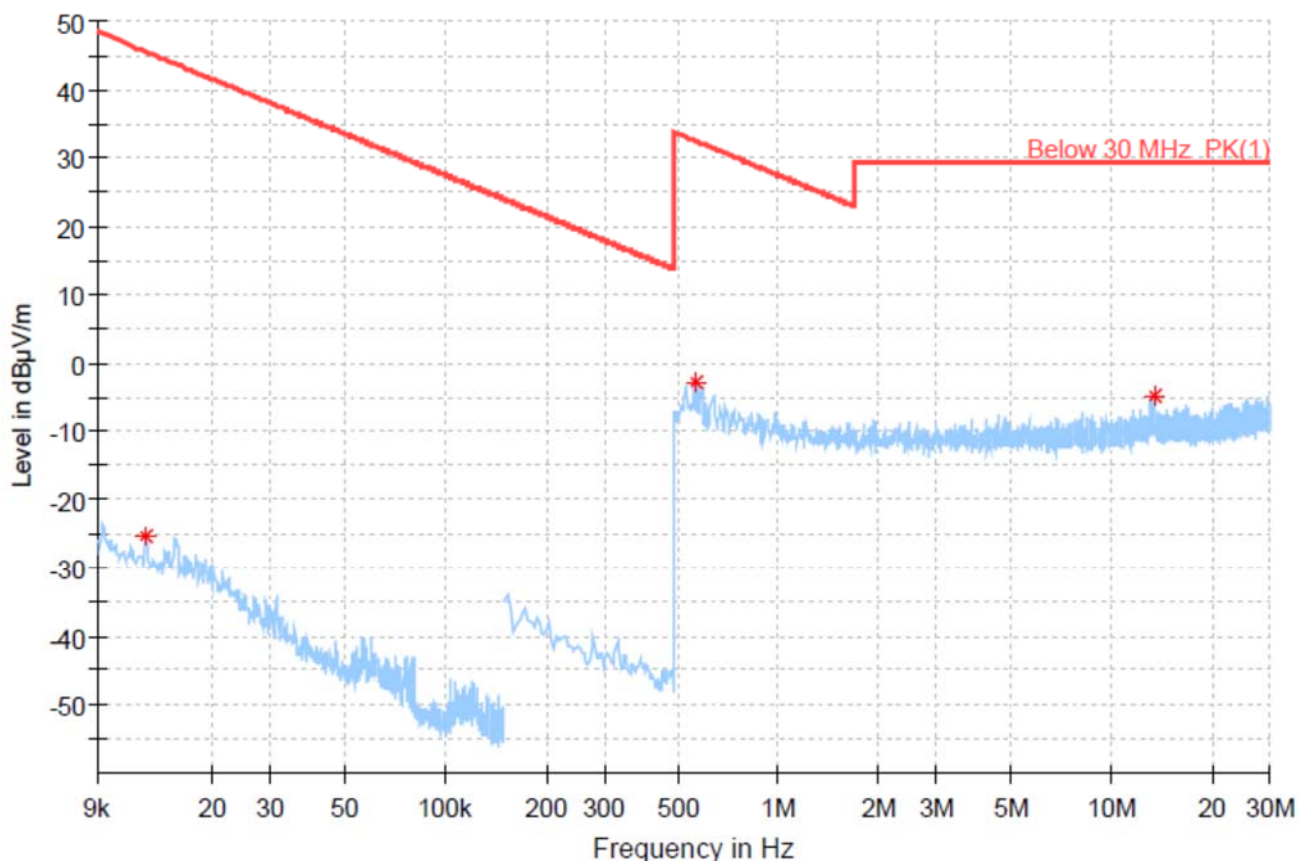
[Radiated Emission Test Setup Above 1 GHz]

3.5.5 Test Result

3.5.5.1 Radiated Emissions (Below 30 MHz)

U-NII-1 (Below 30 MHz)

RSE(Below 30M)_MIMO_UNII-1_802.11ax HE20_5180_Z



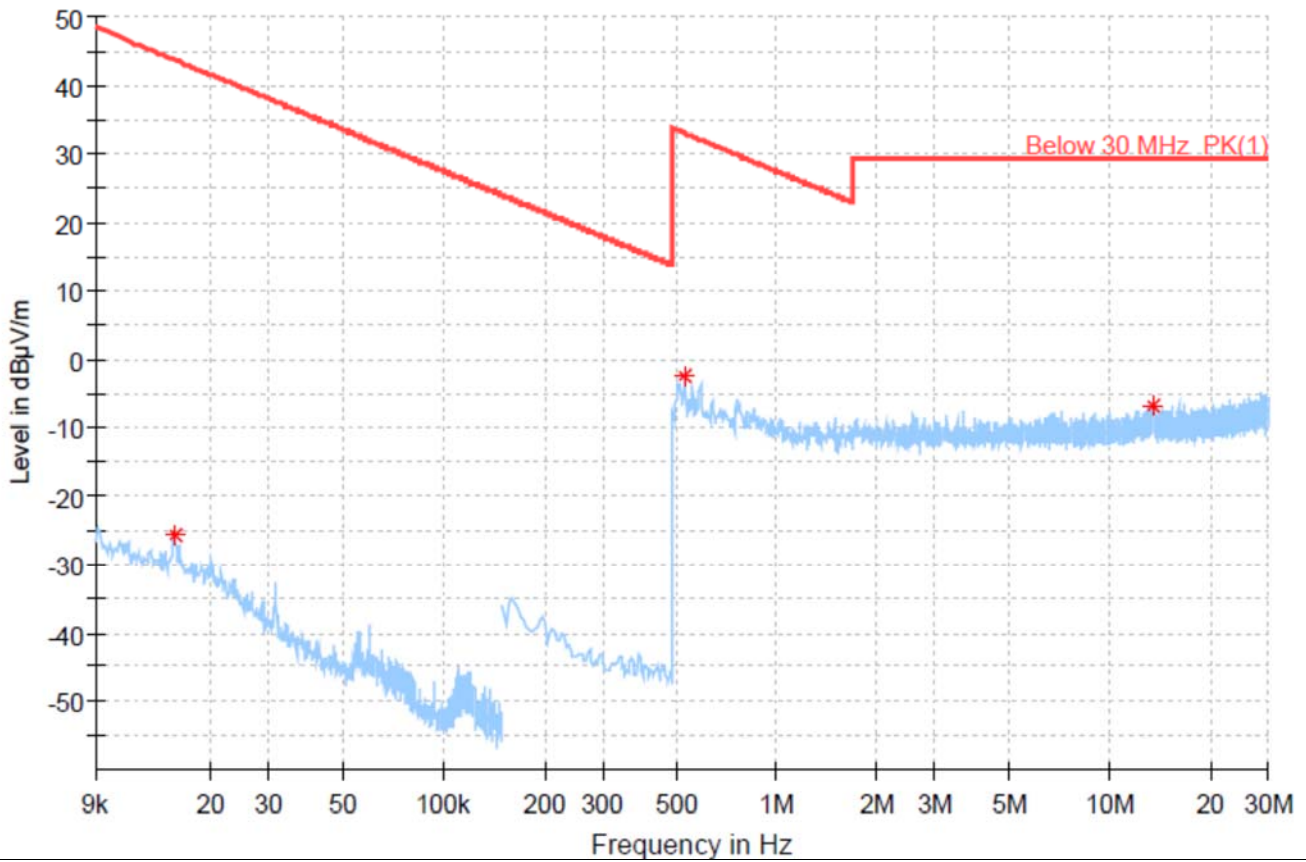
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak [dBµV/m]	Peak Reading Value [dBµA/m]	Peak [dBµA/m]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Distance Factor [dB]	Limit [dBµV/m]	Limit [dBµA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.01	34.60	-25.20	-16.90	-76.70	-	-	-80	45.57	-5.93	70.77	100.00	H	203.00	-59.80
0.56	16.91	-2.79	-34.59	-54.29	-	-	-40	32.59	-18.91	35.38	100.00	H	188.00	-19.70
13.43	13.53	-4.87	-37.97	-56.37	-	-	-40	29.54	-21.96	34.41	100.00	H	84.00	-18.40

Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBµA/m) – (Peak) Limit (dBµA/m)



RSE(Below 30M)_SISO_ANT1_UNII-1_802.11ax(HE20)_5180_X



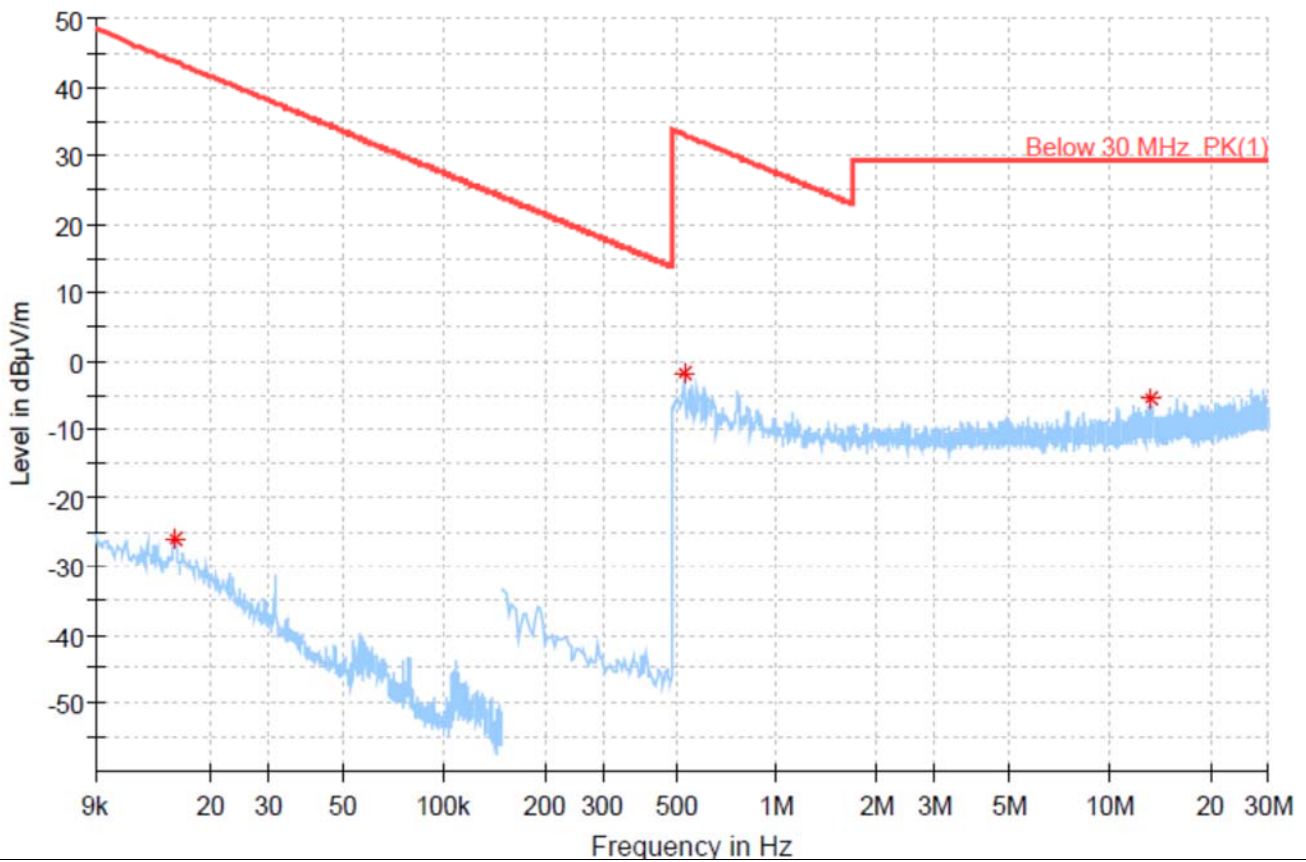
Frequency [MHz]	Peak Reading Value [dBuV/m]	Peak [dBuV/m]	Peak Reading Value [dBuA/m]	Peak [dBuA/m]	Quasi Reading Value [dBuV/m]	Quasi Peak [dBuV/m]	Distance Factor [dB]	Limit [dBuV/m]	Limit [dBuA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.83	-25.77	-17.67	-77.27	-	-	-80	43.77	-7.73	69.54	100.00	H	37.00	-59.60
0.53	17.29	-2.41	-34.21	-53.91	-	-	-40	33.15	-18.35	35.55	100.00	H	0.00	-19.70
13.54	11.54	-6.86	-39.96	-58.36	-	-	-40	29.54	-21.96	36.40	100.00	H	128.00	-18.40

Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBuA/m) – (Peak) Limit (dBuA/m)



RSE(Below 30M)_SISO_ANT2_UNII-1_802.11ax(HE20)_5180_X



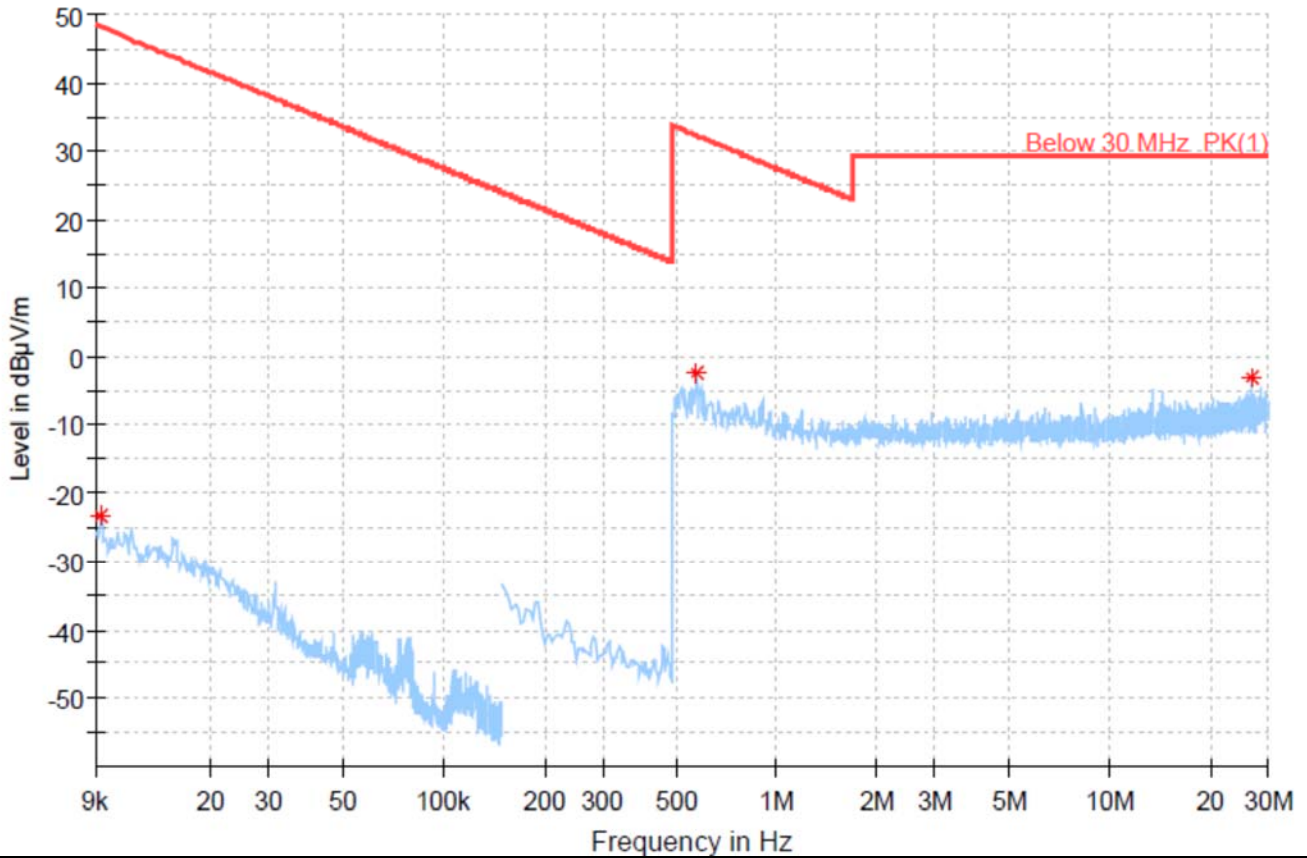
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak [dBµV/m]	Peak Reading Value [dBµA/m]	Peak [dBµA/m]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Distance Factor [dB]	Limit [dBµV/m]	Limit [dBµA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.48	-26.12	-18.02	-77.62	-	-	-80	43.67	-7.83	69.79	100.00	H	236.00	-59.60
0.53	17.81	-1.89	-33.69	-53.39	-	-	-40	33.15	-18.35	35.04	100.00	H	196.00	-19.70
13.38	12.82	-5.58	-38.68	-57.08	-	-	-40	29.54	-21.96	35.12	100.00	H	75.00	-18.40

Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBµA/m) – (Peak) Limit (dBµA/m)

U-NII-2A (Below 30 MHz)

RSE(Below 30 MHz)_MIMO_UNII-2A_802.11ax HE20_5320_Y



Frequency [MHz]	Peak Reading Value [dBuV/m]	Peak [dBuV/m]	Peak Reading Value [dBuA/m]	Peak [dBuA/m]	Quasi Reading Value [dBuV/m]	Quasi Peak [dBuV/m]	Distance Factor [dB]	Limit [dBuV/m]	Limit [dBuA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.01	36.77	-23.43	-14.73	-74.93	-	-	-80	48.17	-3.33	71.59	100.00	H	42.00	-60.20
0.57	17.17	-2.43	-34.33	-53.93	-	-	-40	32.43	-19.07	34.87	100.00	H	198.00	-19.60
26.62	13.27	-3.23	-38.23	-54.73	-	-	-40	29.54	-21.96	32.77	100.00	H	27.00	-16.50

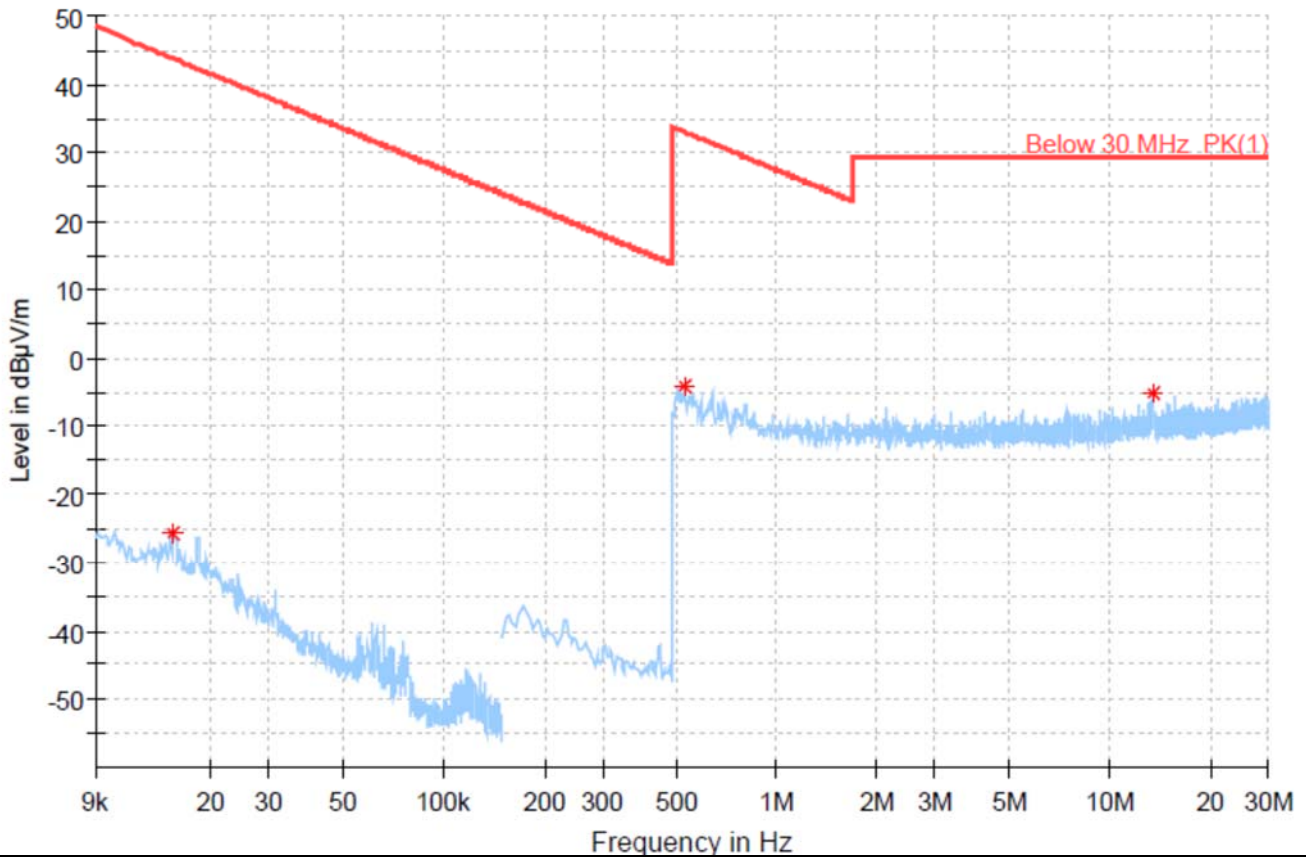
Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBuA/m) – (Peak) Limit (dBuA/m)



UNII-2C (Below 30 MHz)

RSE(Below 30 MHz)_MIMO_UNII-2C_802.11ax HE20_5500_X



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak [dBµV/m]	Peak Reading Value [dBµA/m]	Peak [dBµA/m]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Distance Factor [dB]	Limit [dBµV/m]	Limit [dBµA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.93	-25.67	-17.57	-77.17	-	-	-80	43.82	-7.68	69.49	100.00	H	120.00	-59.60
0.53	15.54	-4.16	-35.96	-55.66	-	-	-40	33.15	-18.35	37.30	100.00	H	146.00	-19.70
13.45	13.34	-5.06	-38.16	-56.56	-	-	-40	29.54	-21.96	34.60	100.00	H	121.00	-18.40

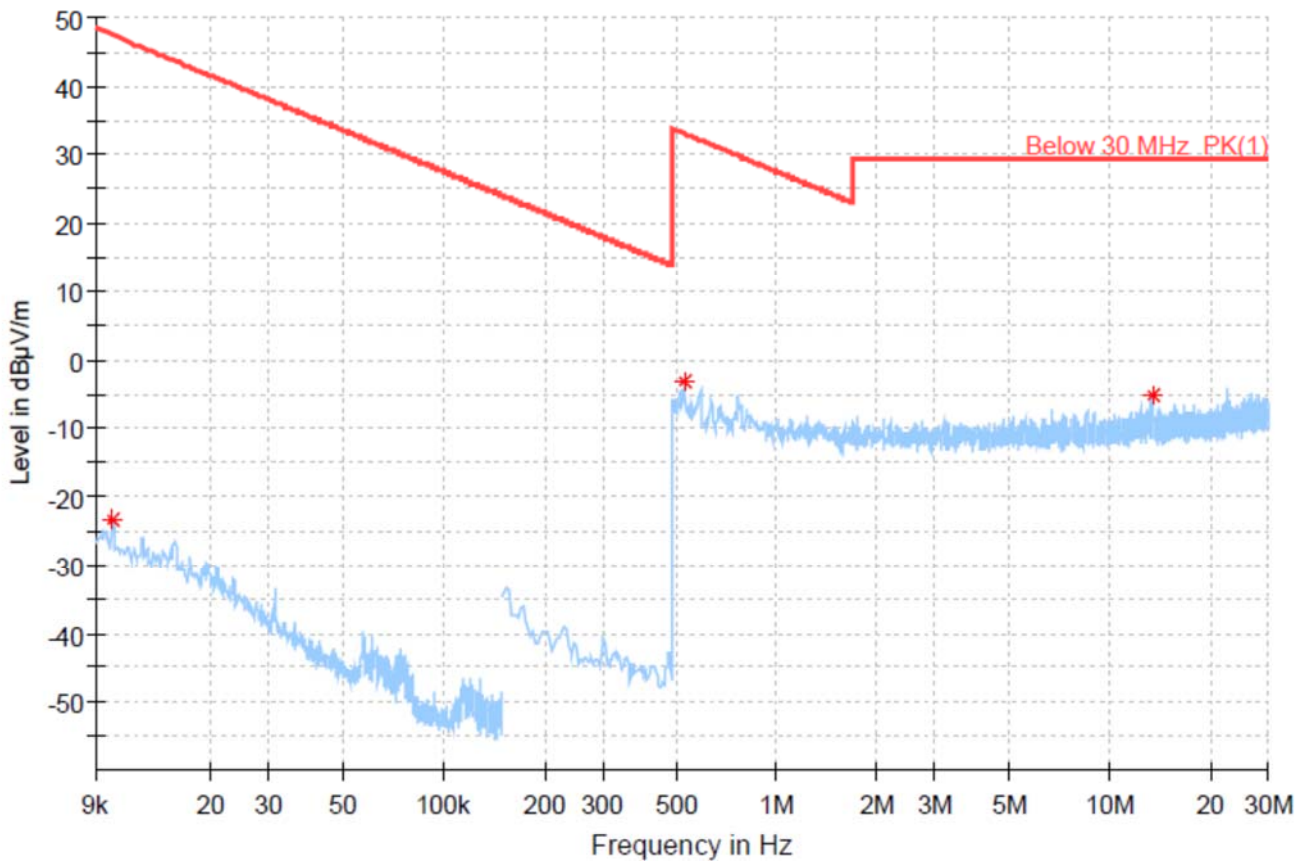
Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBµA/m) – (Peak) Limit (dBµA/m)



UNII-3 (Below 30 MHz)

RSE(Below 30M)_MIMO_UNII-3_802.11ax HE20_5745_X



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak [dBµV/m]	Peak Reading Value [dBµA/m]	Peak [dBµA/m]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Distance Factor [dB]	Limit [dBµV/m]	Limit [dBµA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.01	36.69	-23.41	-14.81	-74.91	-	-	-80	47.46	-4.04	70.87	100.00	H	196.00	-60.10
0.53	16.40	-3.30	-35.10	-54.80	-	-	-40	33.15	-18.35	36.44	100.00	H	346.00	-19.70
13.40	13.39	-5.01	-38.11	-56.51	-	-	-40	29.54	-21.96	34.55	100.00	H	130.00	-18.40

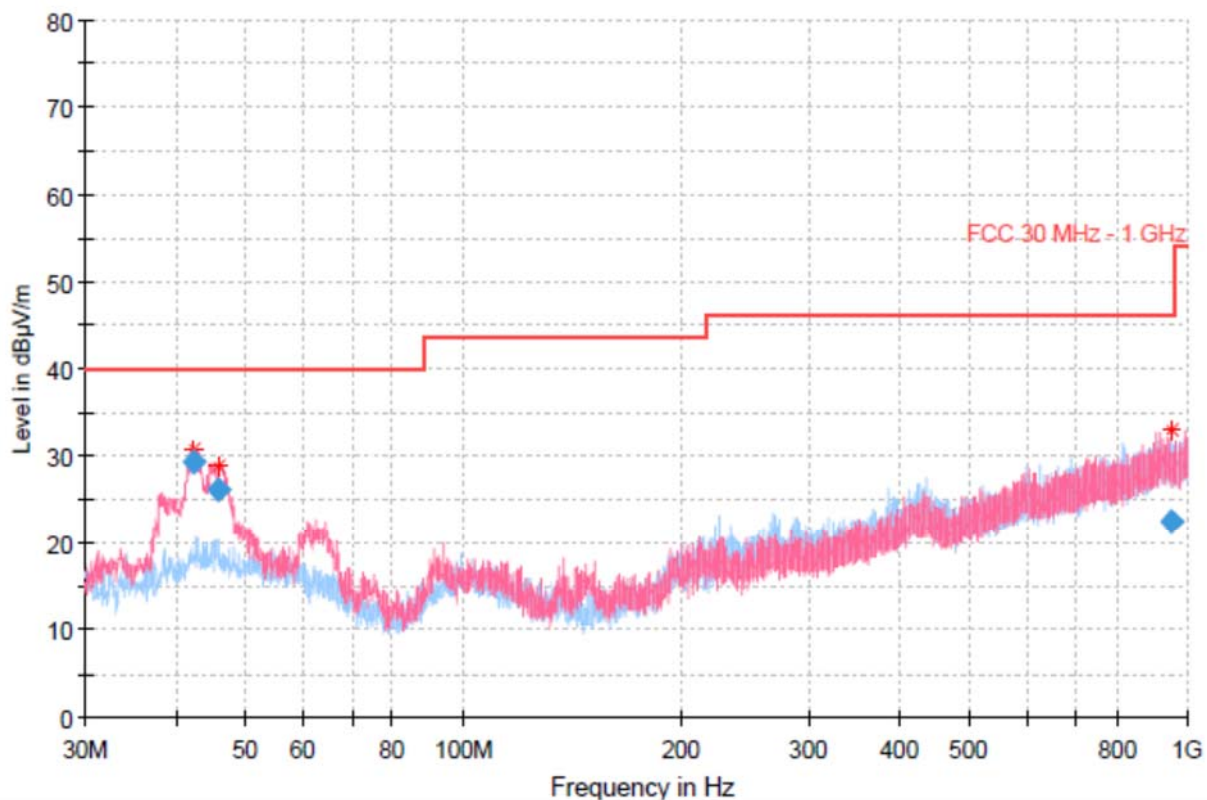
Remarks

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Peak(dBuA/m) = Peak(dBuV/m) - 51.5 dB(Conversion Factor)
3. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
4. Margin(dB) = (Peak) Result (dBµA/m) – (Peak) Limit (dBµA/m)

3.5.5.2 Radiated Emissions (Below 1 GHz)

U-NII-1 (Below 1 GHz)

RSE(Below 1G)_MIMO_UNII-1_802.11ax HE20_5180



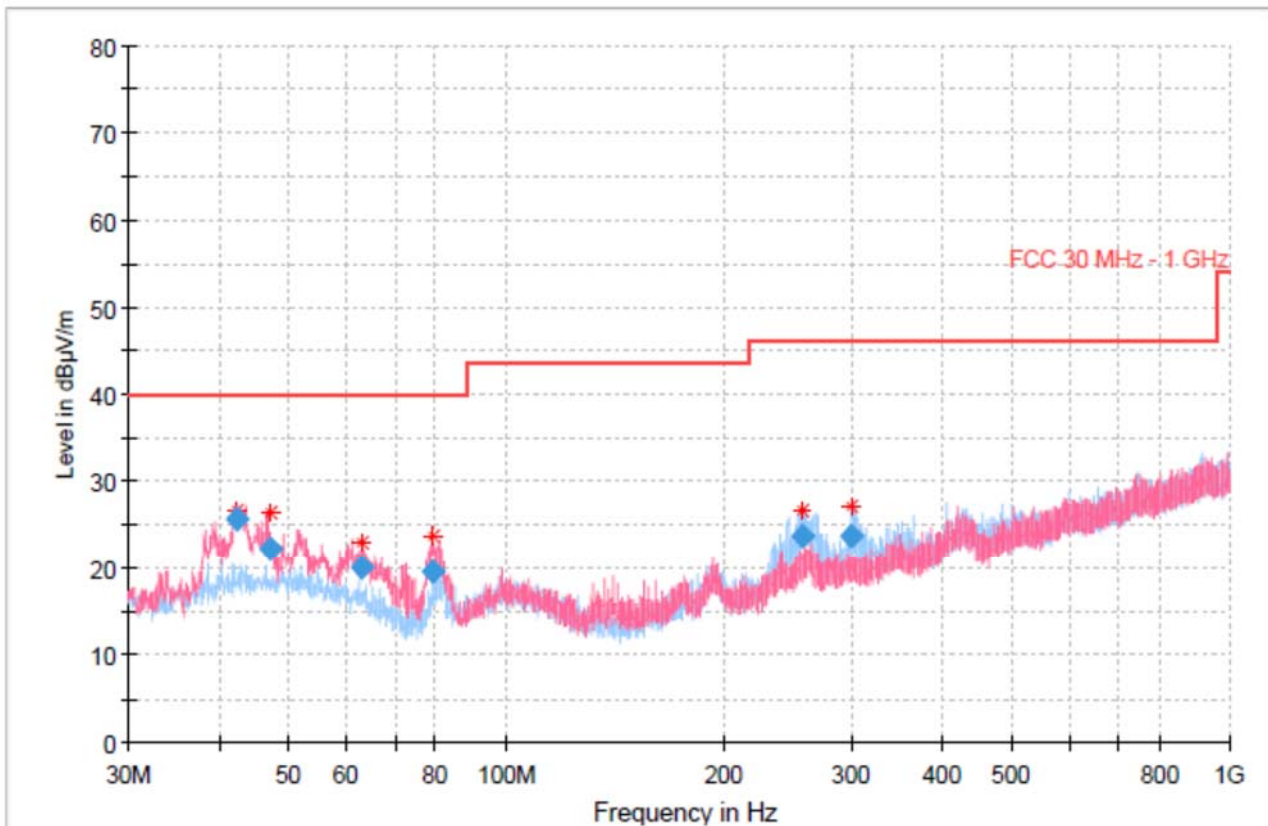
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.50	49.64	29.34	40.00	10.66	100	V	345	-20.3
46.01	46.04	26.14	40.00	13.86	100	V	122	-19.9
950.53	32.05	22.55	46.00	23.45	100	H	99	-9.5

Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)



RSE(Below 1G)_SISO_ANT1_UNII-1_802.11ax(HE20)_5180



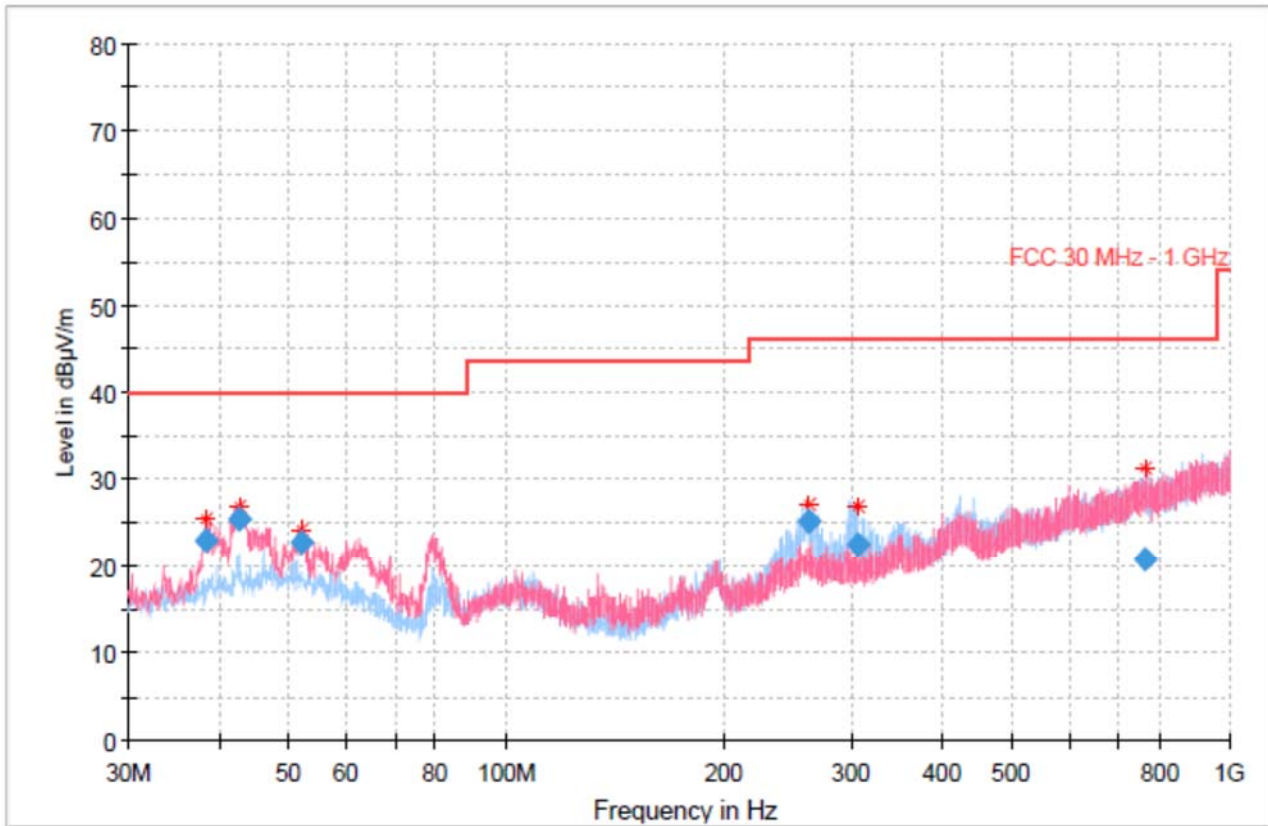
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.55	46.02	25.72	40.00	14.28	100	V	242	-20.3
47.11	42.28	22.38	40.00	17.62	100	V	225	-19.9
63.10	42.38	20.08	40.00	19.92	100	V	359	-22.3
79.28	46.68	19.58	40.00	20.42	100	V	202	-27.1
256.07	43.94	23.84	46.00	22.16	100	H	247	-20.1
300.51	43.03	23.73	46.00	22.27	100	H	272	-19.3

Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)



RSE(Below 1G)_SISO_ANT2_UNII-1_802.11ax(HE20)_5180



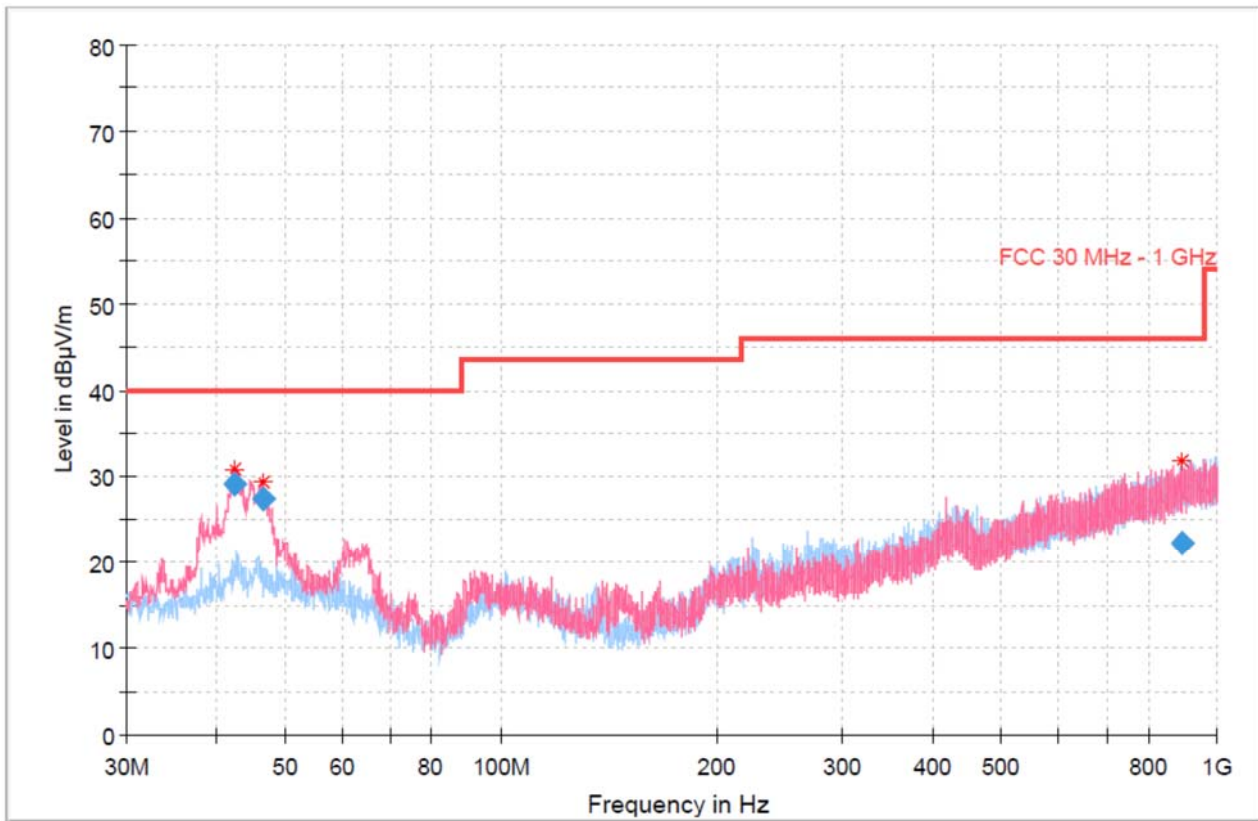
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
38.53	44.12	22.92	40.00	17.08	100	V	169	-21.2
42.79	45.56	25.36	40.00	14.64	100	V	152	-20.2
52.25	42.94	22.74	40.00	17.26	100	V	359	-20.2
261.26	45.36	25.16	46.00	20.84	100	H	269	-20.2
306.17	41.80	22.60	46.00	23.40	100	H	250	-19.2
763.52	31.45	20.85	46.00	25.15	100	H	269	-10.6

Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)

U-NII-2A (Below 1 GHz)

RSE(Below 1 GHz)_MIMO_UNII-2A_802.11ax HE20_5320



Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.39	49.43	29.13	40.00	10.87	100	V	269	-20.30
46.60	47.19	27.29	40.00	12.71	100	V	269	-19.90
891.68	31.85	22.15	46.00	23.85	100	H	214	-9.70

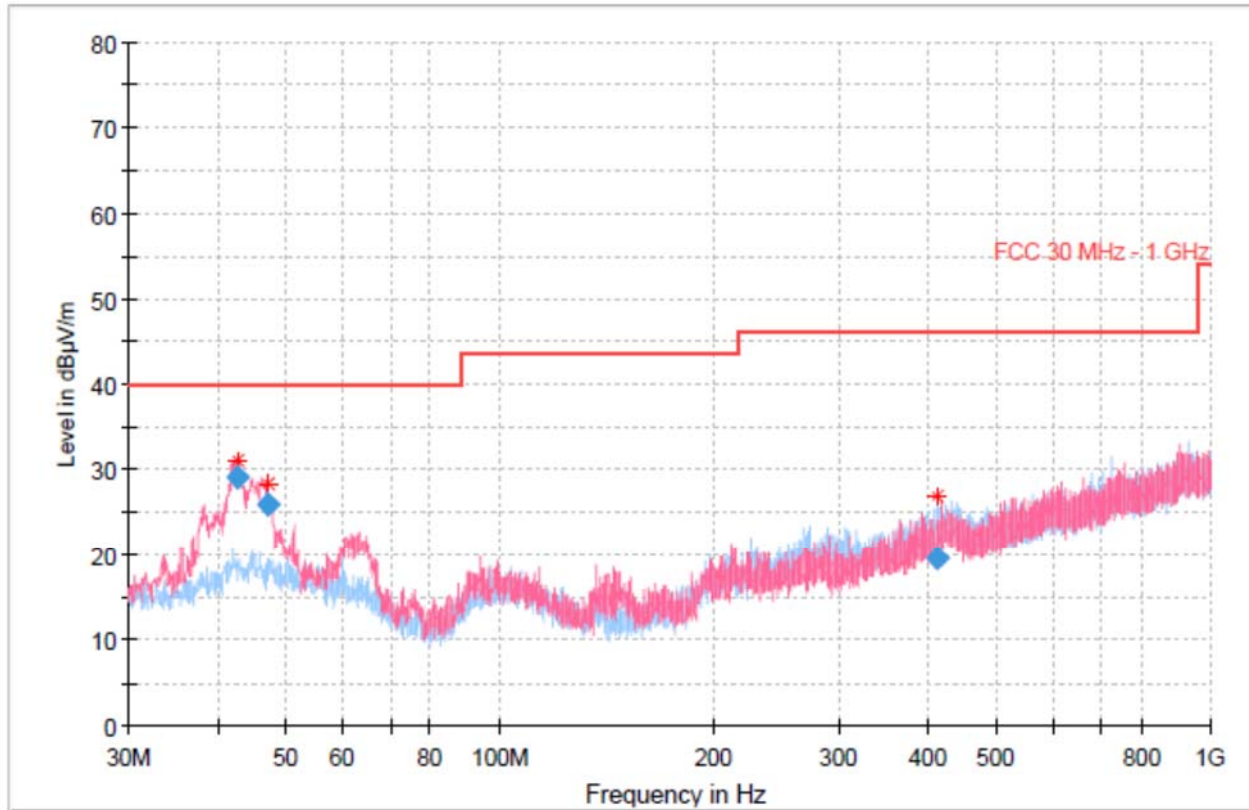
Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)



U-NII-2C (Below 1 GHz)

RSE(Below 1 GHz)_MIMO_UNII-2C_802.11ax HE20_5500



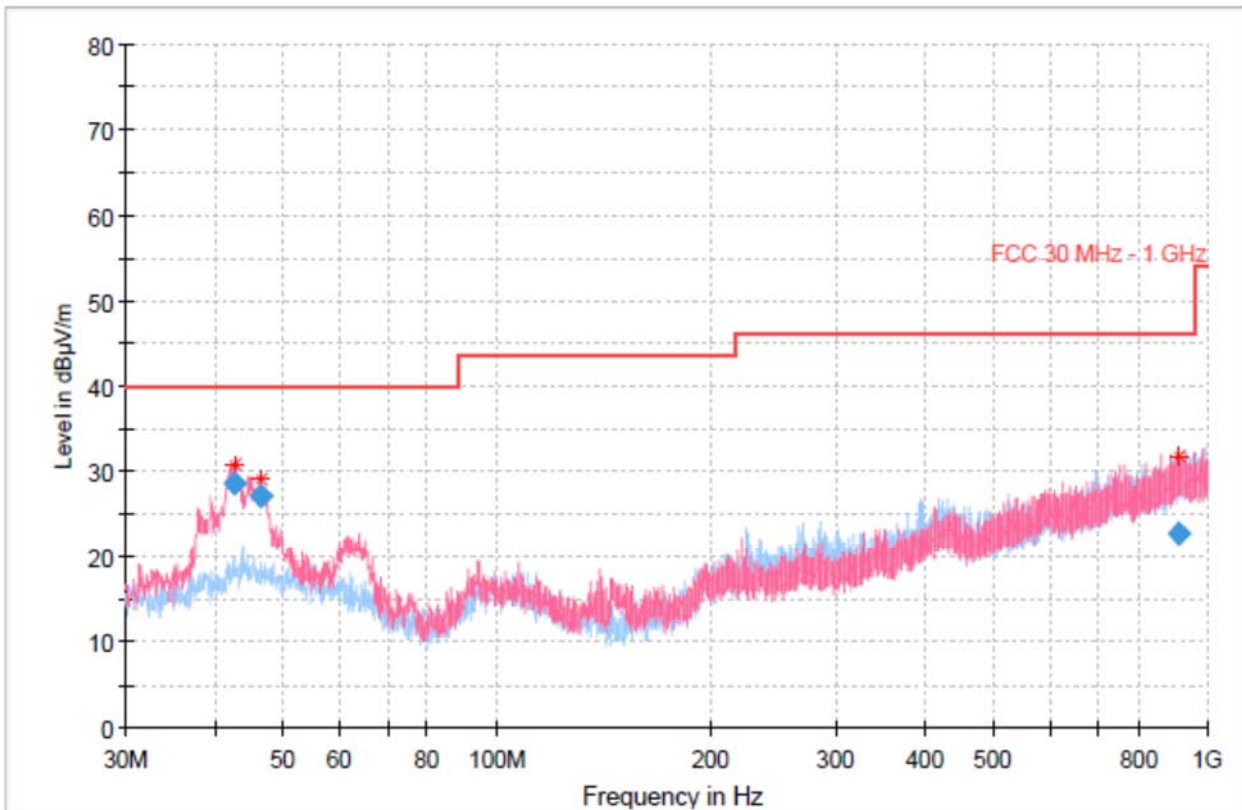
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.83	49.33	29.13	40.00	10.87	100.00	V	240.00	-20.20
47.08	45.75	25.85	40.00	14.15	100.00	V	284.00	-19.90
411.43	35.86	19.66	46.00	26.34	100.00	H	232.00	-16.20

Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)

U-NII-3 (Below 1 GHz)

RSE(Below 1 GHz)_MIMO_UNII-3_802.11ax HE20_5745



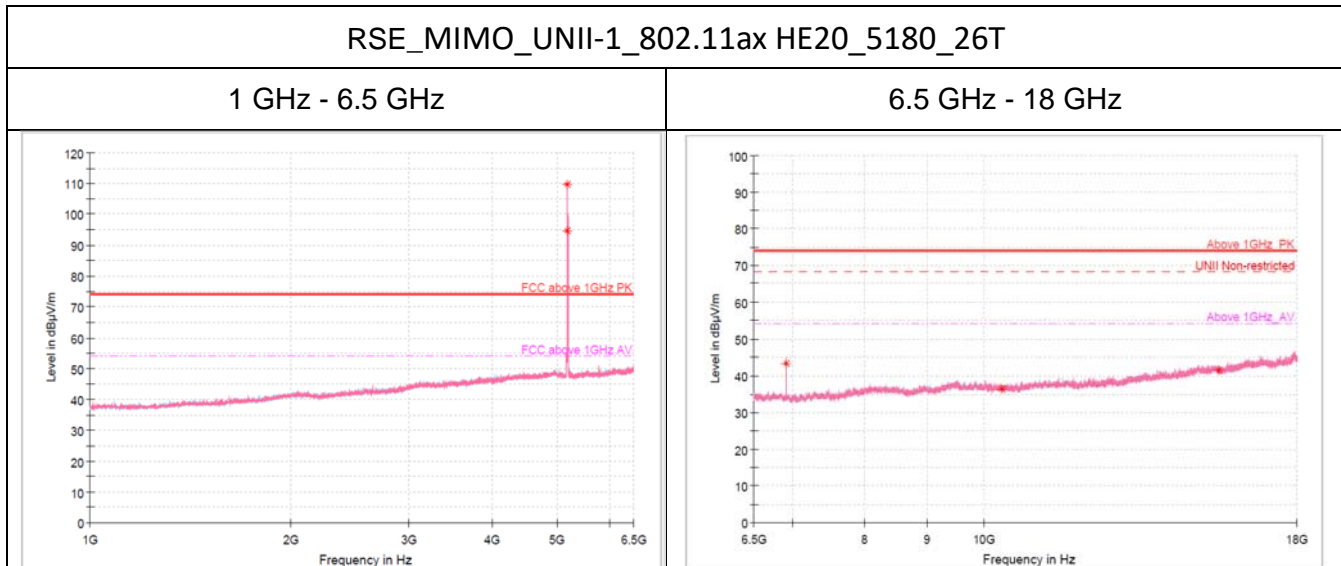
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.83	48.88	28.68	40.00	11.32	100.00	V	164.00	-20.20
46.49	47.04	27.14	40.00	12.86	100.00	V	231.00	-19.90
913.62	31.77	22.67	46.00	23.33	100.00	H	66.00	-9.10

Remarks

1. Quasi Peak(dBµV/m) = Quasi Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBµV/m) – (Quasi Peak) Limit (dBµV/m)

3.5.5.3 Radiated Emissions (Above 1 GHz)

U-NII-1 (Above 1 GHz)



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 172.21	91.84	109.64	-	-	100	H	199	17.80	-	74.00	-	-
5 180.00	76.95	94.75	-	-	200	H	221	17.80	-	74.00	-	-
6 906.16	38.65	43.45	-	-	200	V	158	4.80	30.55	74.00	-	-
10 360.34	27.36	36.26	-	-	100	V	170	8.90	37.74	74.00	-	-
15 540.05	27.10	41.60	-	-	200	H	93	14.50	32.40	74.00	-	-

Remarks

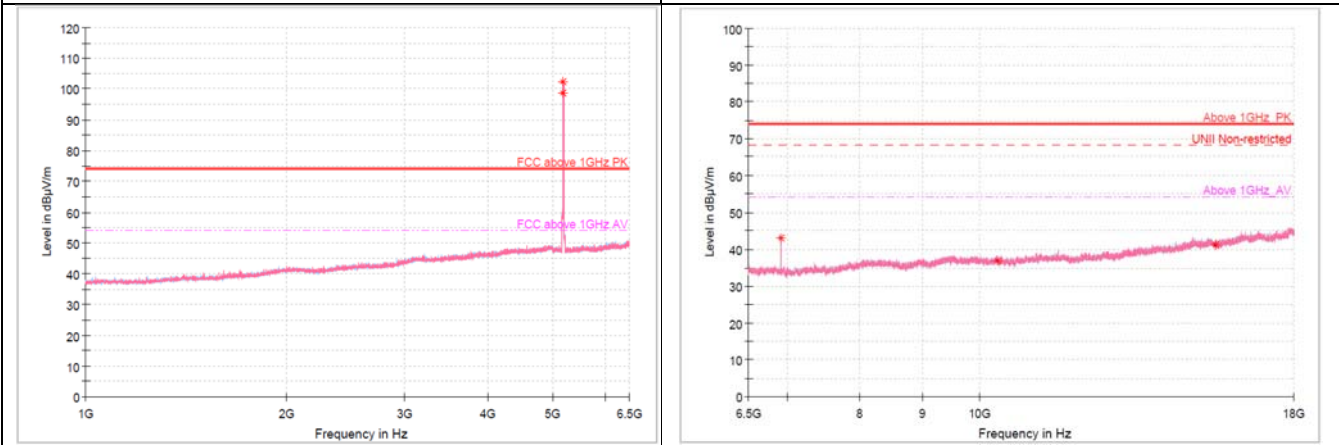
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_MIMO_UNII-1_802.11ax HE20_5180_SU

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 171.75	84.69	102.49	-	-	100	H	205	17.80	-	74.00	-	-
5 180.00	81.06	98.86	-	-	300	V	162	17.80	-	74.00	-	-
6 906.68	38.37	43.17	-	-	200	V	174	4.80	30.83	74.00	-	-
10 360.34	28.08	36.98	-	-	100	V	66	8.90	37.02	74.00	-	-
15 540.05	26.69	41.19	-	-	300	H	0	14.50	32.81	74.00	-	-

Remarks

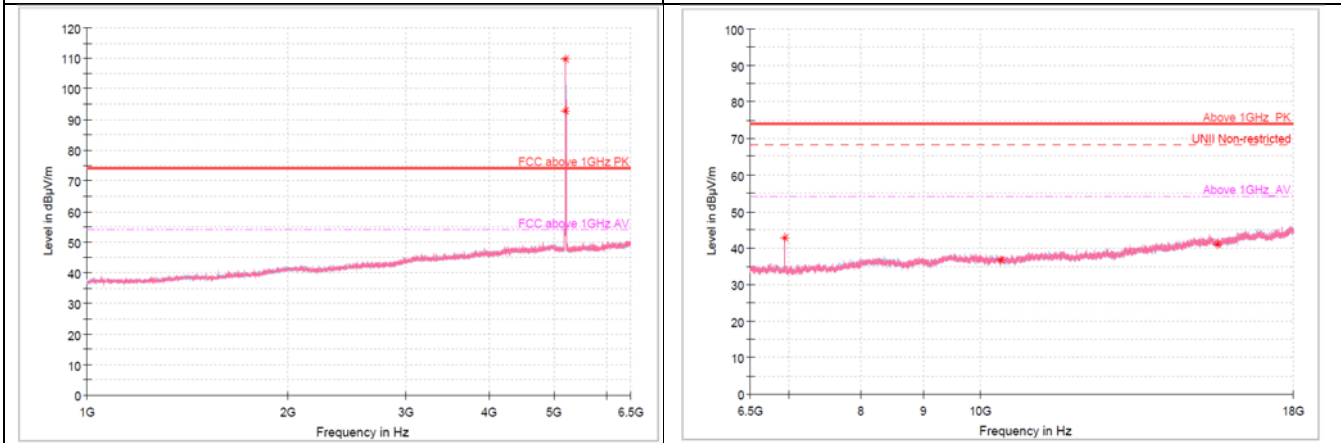
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_MIMO_UNII-1_802.11ax HE20_5200_26T

1 GHz - 6.5 GHz

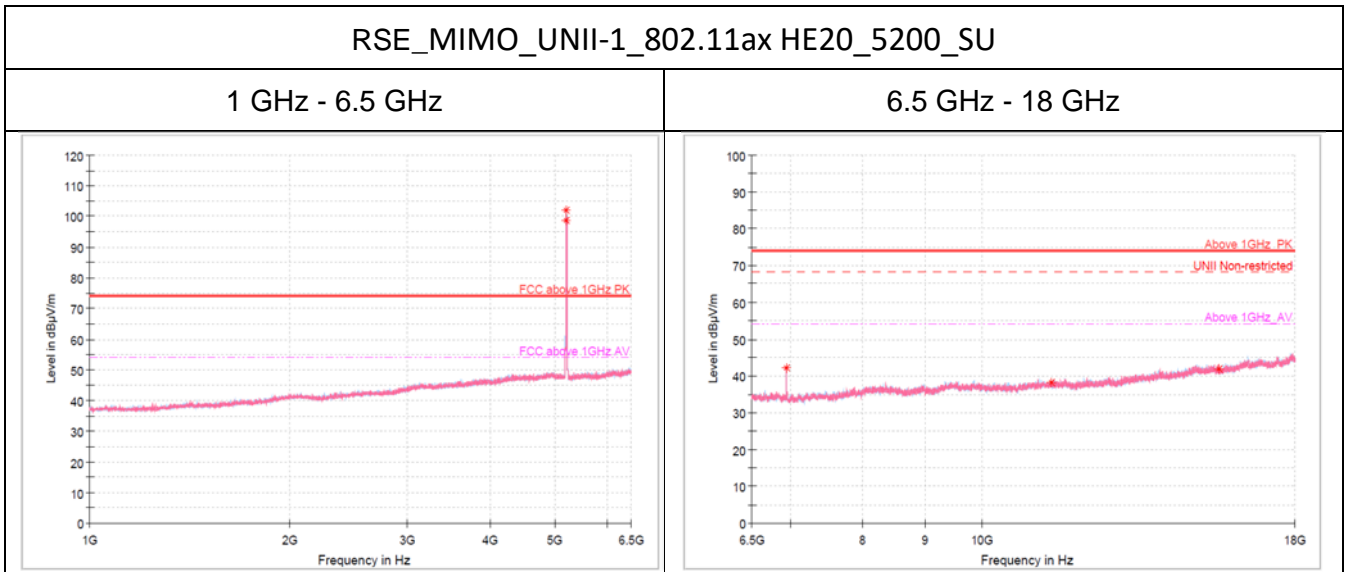
6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 191.46	91.84	109.64	-	-	100	H	203	17.80	-	74.00	-	-
5 200.17	75.19	92.99	-	-	100	H	0	17.80	-	74.00	-	-
6 932.82	37.81	42.71	-	-	200	V	171	4.90	31.29	74.00	-	-
10 400.07	27.80	36.80	-	-	400	V	150	9.00	37.20	74.00	-	-
15 600.16	26.39	40.99	-	-	200	H	79	14.60	33.01	74.00	-	-

Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 191.46	84.23	102.03	-	-	300	V	162	17.80	-	74.00	-	-
5 200.17	81.01	98.81	-	-	300	V	170	17.80	-	74.00	-	-
6 932.82	37.45	42.35	-	-	200	V	175	4.90	31.65	74.00	-	-
11 400.05	27.89	38.09	-	-	400	V	331	10.20	35.91	74.00	-	-
15 600.16	27.15	41.75	-	-	300	V	349	14.60	32.25	74.00	-	-

Remarks

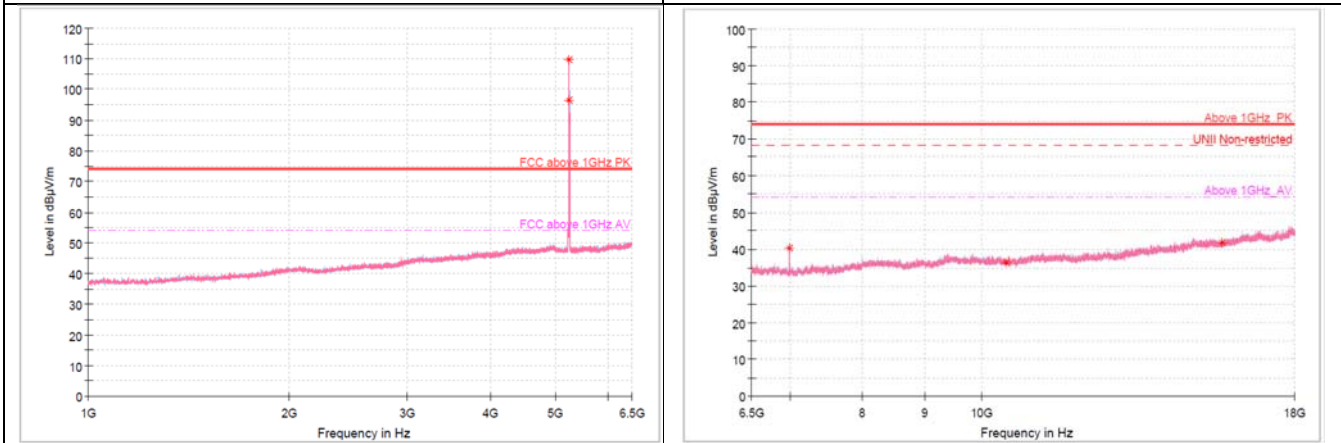
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_MIMO_UNII-1_802.11ax HE20_5240_26T

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 231.33	92.04	109.84	-	-	100	H	203	17.80	-	74.00	-	-
5 240.04	78.77	96.57	-	-	200	H	202	17.80	-	74.00	-	-
6 986.14	35.22	40.22	-	-	200	V	217	5.00	33.78	74.00	-	-
10 480.05	27.31	36.51	-	-	300	H	267	9.20	37.49	74.00	-	-
15 720.39	26.90	41.80	-	-	300	H	346	14.90	32.20	74.00	-	-

Remarks

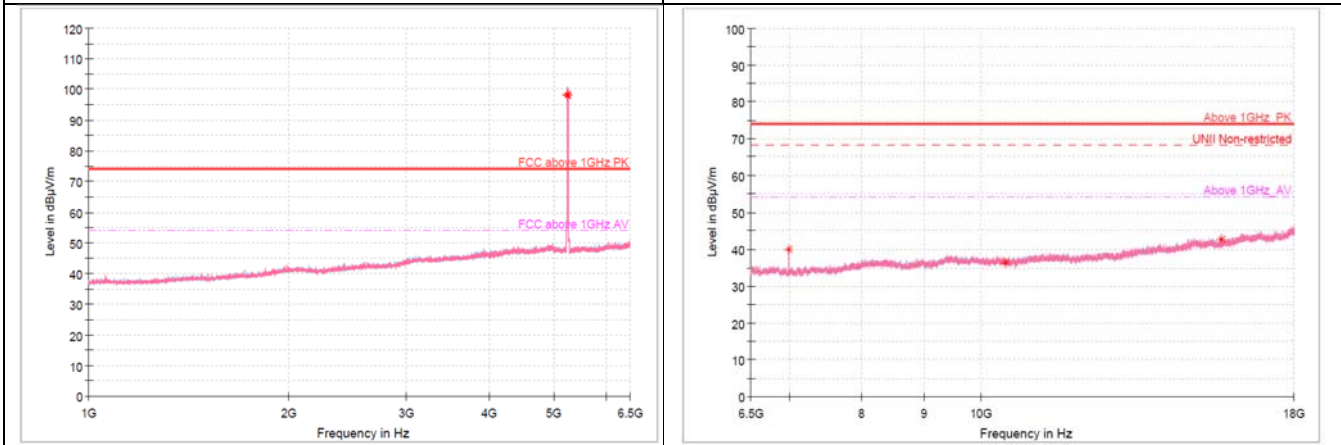
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_MIMO_UNII-1_802.11ax HE20_5240_SU

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 239.58	80.47	98.27	-	-	300	V	157	17.80	-	74.00	-	-
5 240.04	80.10	97.90	-	-	200	H	187	17.80	-	74.00	-	-
6 986.14	34.91	39.91	-	-	100	H	6	5.00	34.09	74.00	-	-
10 480.05	27.24	36.44	-	-	200	H	345	9.20	37.56	74.00	-	-
15 720.39	27.84	42.74	-	-	200	V	112	14.90	31.26	74.00	-	-

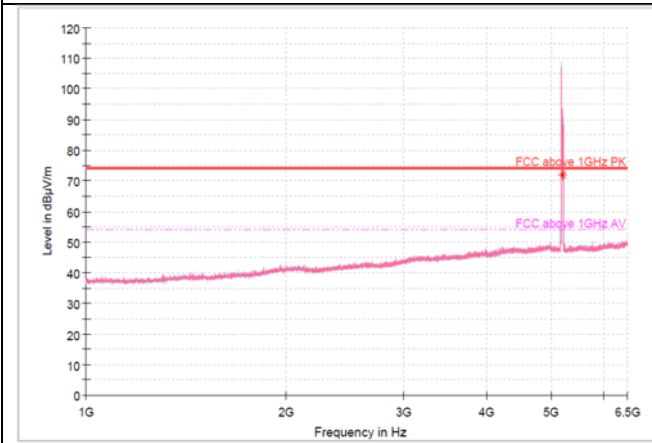
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

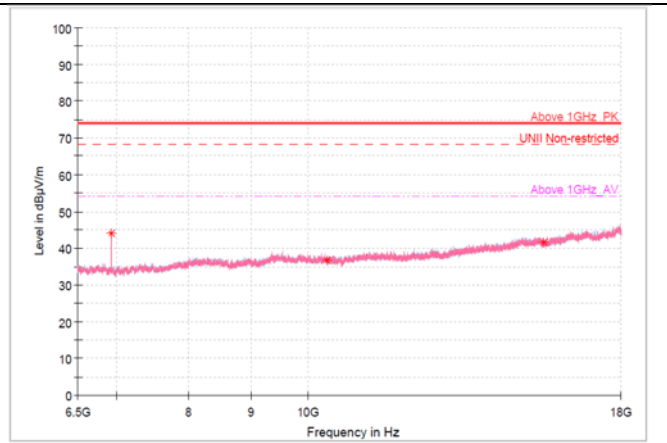


RSE_MIMO_UNII-1_802.11ax HE40_5190_26T

1 GHz - 6.5 GHz



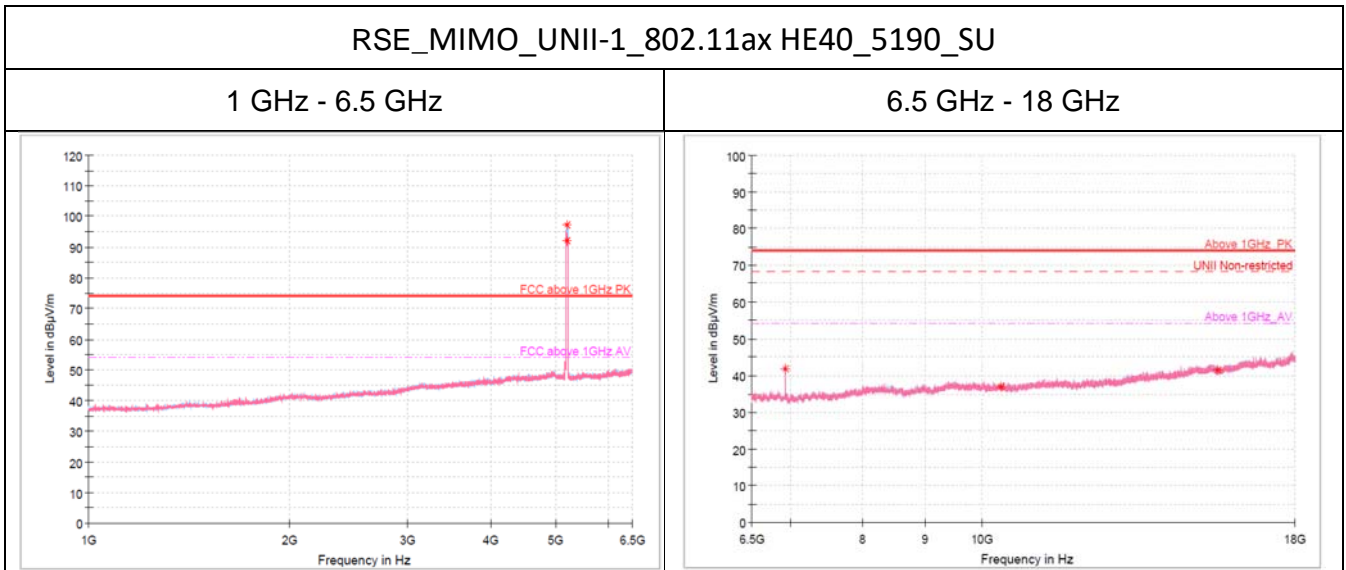
6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 190.08	54.00	71.80	-	-	300	H	307	17.80	-	74.00	-	-
6 919.75	39.21	44.01	-	-	200	V	174	4.80	29.99	74.00	-	-
10 380.20	27.77	36.77	-	-	100	V	202	9.00	37.23	74.00	-	-
15 570.36	27.00	41.60	-	-	400	H	162	14.60	32.40	74.00	-	-

Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 190.08	74.39	92.19	-	-	100	H	198	17.80	-	74.00	-	-
5 194.67	79.53	97.33	-	-	100	H	202	17.80	-	74.00	-	-
6 919.75	37.16	41.96	-	-	200	V	175	4.80	32.04	74.00	-	-
10 380.20	27.91	36.91	-	-	300	H	357	9.00	37.09	74.00	-	-
15 570.36	26.99	41.59	-	-	400	V	119	14.60	32.41	74.00	-	-

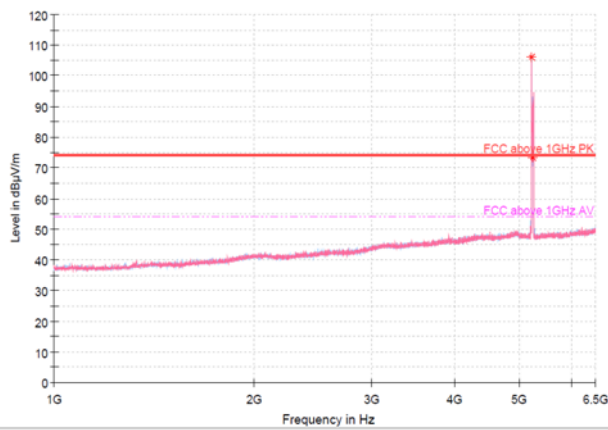
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

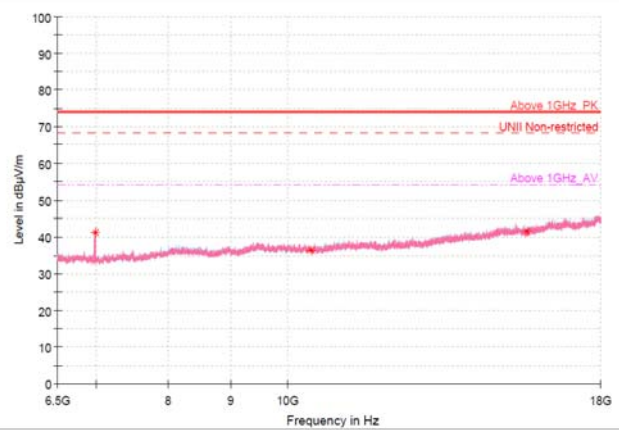


RSE_MIMO_UNII-1_802.11ax HE40_5230_26T

1 GHz - 6.5 GHz



6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 212.54	88.44	106.24	-	-	100	H	205	17.80	-32.24	74.00	-	-
5 229.96	55.71	73.51	-	-	200	V	165	17.80	0.49	74.00	-	-
6 973.07	36.45	41.35	-	-	200	V	173	4.90	32.65	74.00	-	-
10 460.18	27.35	36.45	-	-	300	H	196	9.10	37.55	74.00	-	-
15 690.07	26.82	41.52	-	-	200	H	134	14.70	32.48	74.00	-	-

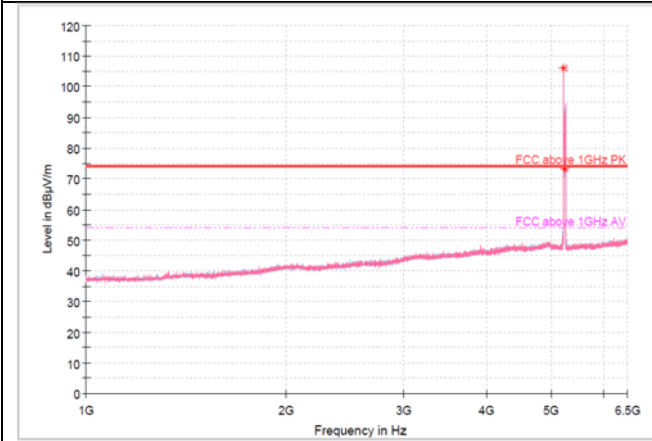
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

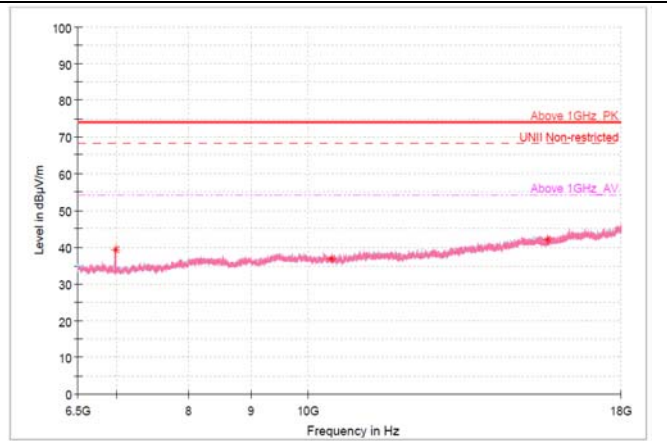


RSE_MIMO_UNII-1_802.11ax HE40_5230_SU

1 GHz - 6.5 GHz



6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 229.96	73.33	91.13	-	-	300	V	165	17.80	-	74.00	-	-
6 973.07	34.48	39.38	-	-	200	V	169	4.90	34.62	74.00	-	-
10 460.18	27.80	36.90	-	-	100	H	11	9.10	37.10	74.00	-	-
15 690.07	27.41	42.11	-	-	100	V	215	14.70	31.89	74.00	-	-

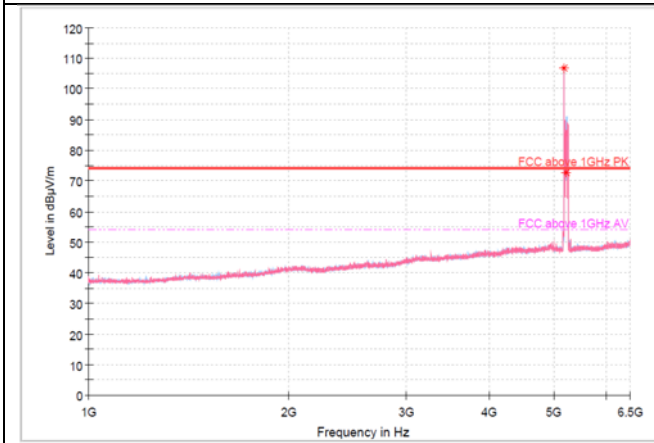
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

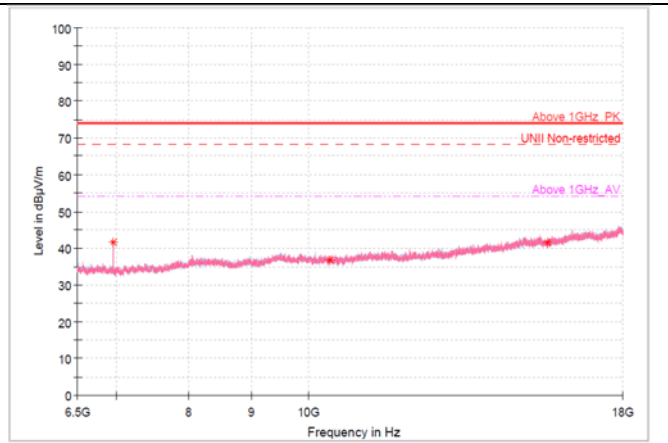


RSE_MIMO_UNII-1_802.11ax HE80_5210_26T

1 GHz - 6.5 GHz



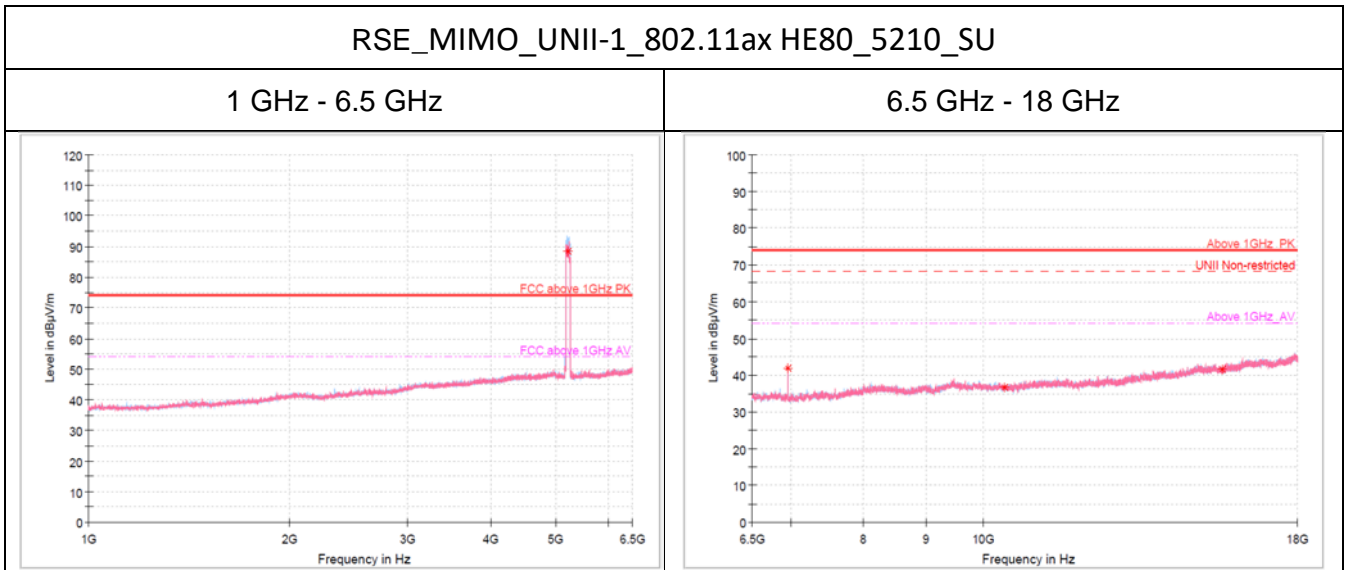
6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 172.21	88.97	106.77	-	-	100	H	206	17.80	-	74.00	-	-
5 210.25	54.72	72.52	-	-	300	V	184	17.80	-	74.00	-	-
6 946.41	36.78	41.68	-	-	200	V	177	4.90	32.32	74.00	-	-
10 419.93	27.84	36.84	-	-	400	H	351	9.00	37.16	74.00	-	-
15 629.95	26.95	41.65	-	-	300	H	6	14.70	32.35	74.00	-	-

Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 209.79	70.57	88.37	-	-	100	H	205	17.80	-	74.00	-	-
6 946.41	37.13	42.03	-	-	200	V	172	4.90	31.97	74.00	-	-
10 419.93	27.75	36.75	-	-	200	V	324	9.00	37.25	74.00	-	-
15 629.95	26.83	41.53	-	-	200	H	212	14.70	32.47	74.00	-	-

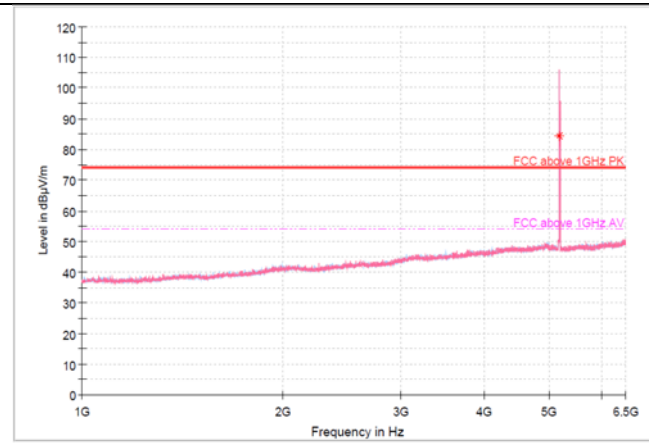
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

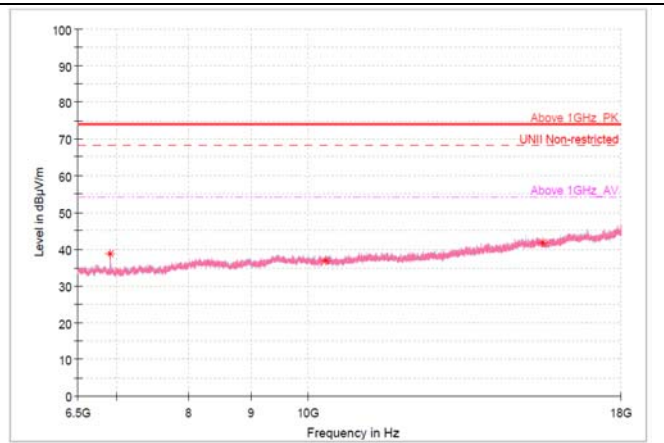


RSE_SISO_ANT1_UNII-1_802.11ax HE20_5180_26T

1 GHz - 6.5 GHz



6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 180.00	66.74	84.54	-	-	100	H	96	17.80	-10.54	74.00	-	-
6 906.68	34.19	38.99	-	-	200	V	175	4.80	35.01	74.00	-	-
10 360.34	28.24	37.14	-	-	200	V	255	8.90	36.86	74.00	-	-
15 540.05	27.39	41.89	-	-	400	V	132	14.50	32.11	74.00	-	-

Remarks

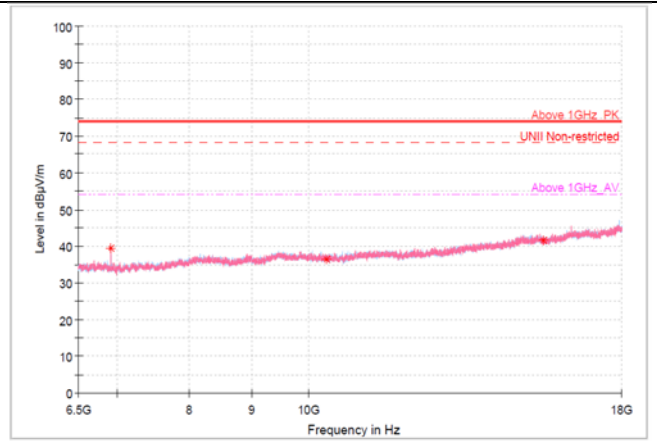
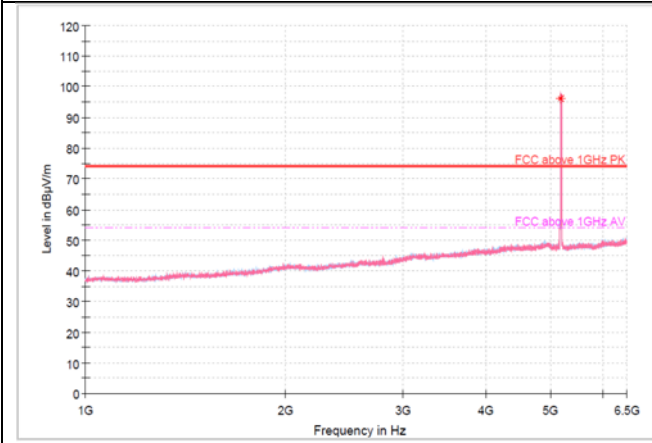
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_SISO_ANT1_UNII-1_802.11ax HE20_5180_SU

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 180.00	78.24	96.04	-	-	300	V	180	17.80	-	74.00	-	-
6 906.16	34.67	39.47	-	-	200	V	183	4.80	34.53	74.00	-	-
10 360.34	27.51	36.41	-	-	400	V	140	8.90	37.59	74.00	-	-
15 540.05	27.09	41.59	-	-	200	H	29	14.50	32.41	74.00	-	-

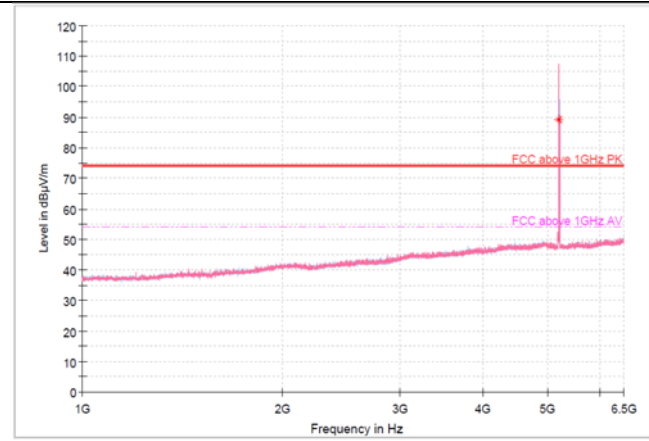
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

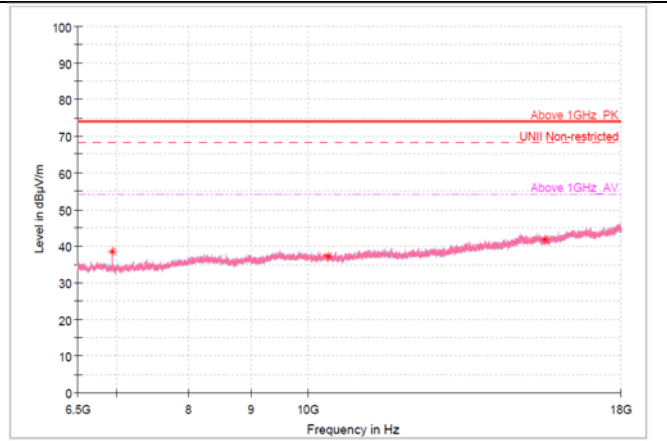


RSE_SISO_ANT1_UNII-1_802.11ax HE20_5200_26T

1 GHz - 6.5 GHz



6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 200.63	71.52	89.32	-	-	200	H	327	17.80	-	74.00	-	-
6 932.82	33.70	38.60	-	-	200	V	178	4.90	35.40	74.00	-	-
10 400.07	28.22	37.22	-	-	300	H	76	9.00	36.78	74.00	-	-
15 600.16	27.15	41.75	-	-	300	H	135	14.60	32.25	74.00	-	-

Remarks

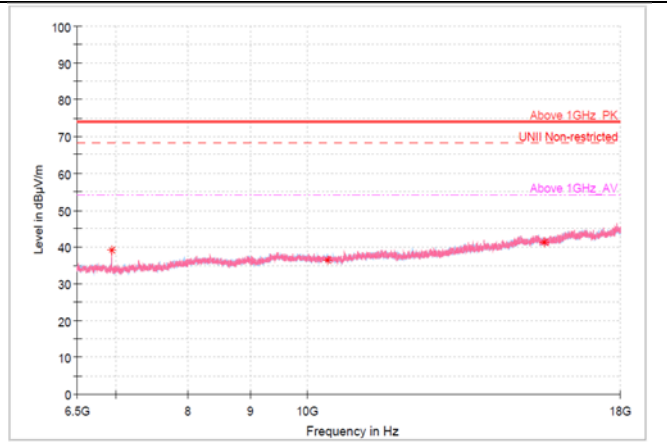
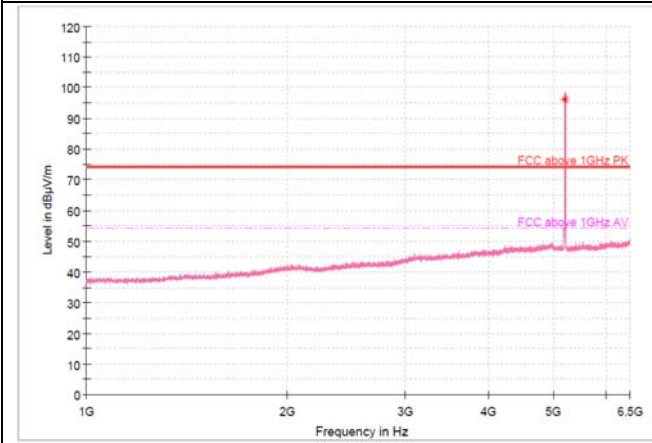
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_SISO_ANT1_UNII-1_802.11ax HE20_5200_SU

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 200.17	78.48	96.28	-	-	200	H	327	17.80	-15.32	74.00	-	-
6 933.34	34.23	39.13	-	-	200	V	179	4.90	34.87	74.00	-	-
10 400.07	27.46	36.46	-	-	100	H	48	9.00	37.54	74.00	-	-
15 600.16	26.62	41.22	-	-	400	H	172	14.60	32.78	74.00	-	-

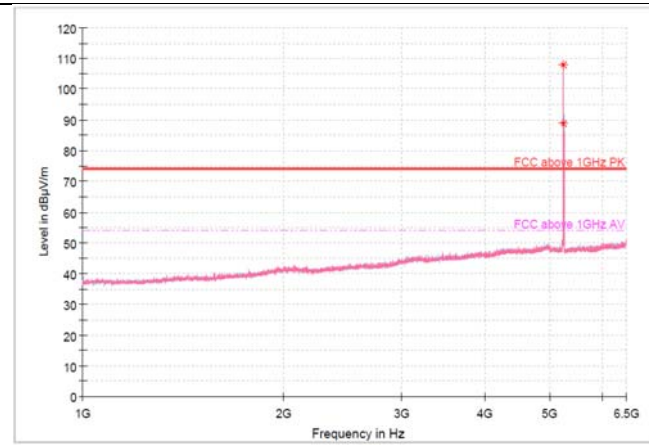
Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

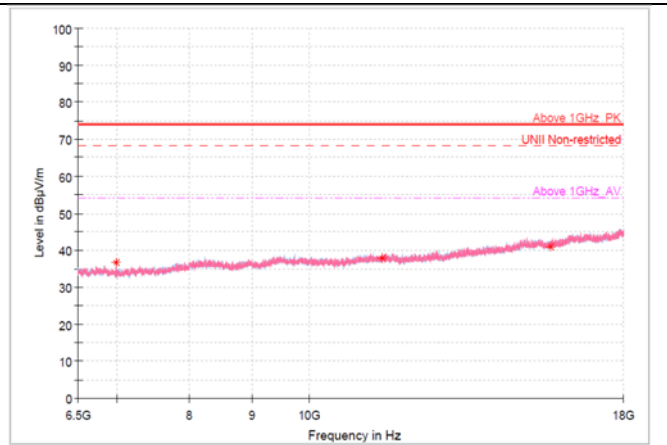


RSE_SISO_ANT1_UNII-1_802.11ax HE20_5240_26T

1 GHz - 6.5 GHz



6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 231.79	89.94	107.74	-	-	300	V	172	17.80	-	74.00	-	-
5 240.50	70.90	88.70	-	-	400	H	239	17.80	-	74.00	-	-
6 986.14	31.60	36.60	-	-	200	V	181	5.00	37.40	74.00	-	-
11 480.02	27.65	38.05	-	-	100	V	112	10.40	35.95	74.00	-	-
15 720.39	26.12	41.02	-	-	200	H	359	14.90	32.98	74.00	-	-

Remarks

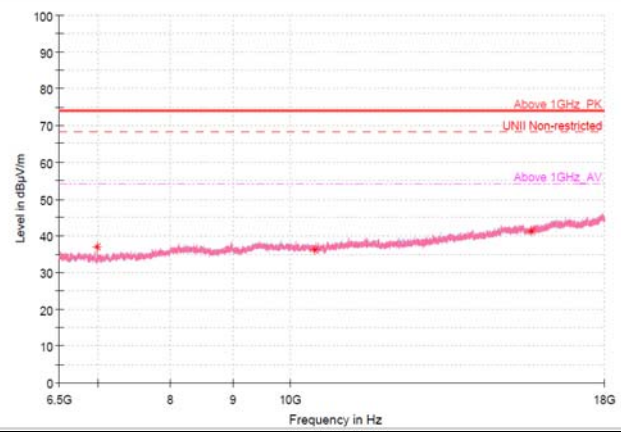
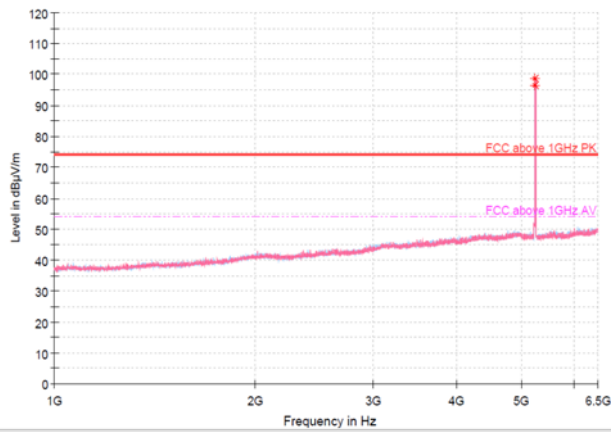
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_SISO_ANT1_UNII-1_802.11ax HE20_5240_SU

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 240.04	78.64	96.44	-	-	100	H	202	17.80	-22.44	74.00	-	-
5 242.33	81.02	98.82	-	-	300	V	169	17.80	-24.82	74.00	-	-
6 986.14	32.09	37.09	-	-	200	V	183	5.00	36.91	74.00	-	-
10 480.05	27.01	36.21	-	-	100	V	236	9.20	37.79	74.00	-	-
15 720.39	26.50	41.40	-	-	300	H	164	14.90	32.60	74.00	-	-

Remarks

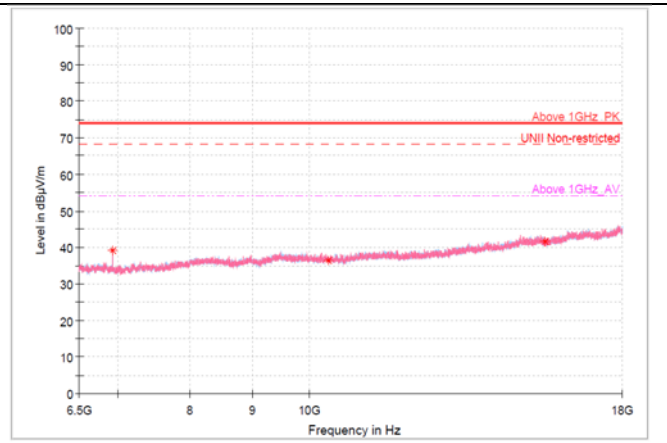
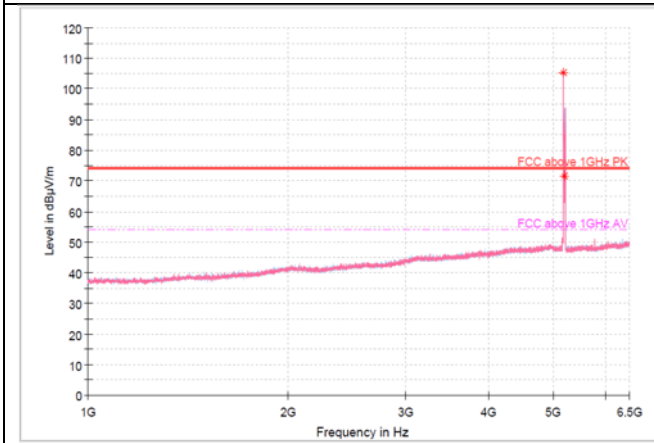
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



RSE_SISO_ANT1_UNII-1_802.11ax HE40_5190_26T

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 171.75	87.45	105.25	-	-	100	H	205	17.80	-	74.00	-	-
5 190.08	53.66	71.46	-	-	300	V	184	17.80	-	74.00	-	-
6 919.75	34.31	39.11	-	-	200	V	185	4.80	34.89	74.00	-	-
10 380.20	27.52	36.52	-	-	300	V	272	9.00	37.48	74.00	-	-
15 570.36	26.97	41.57	-	-	200	V	103	14.60	32.43	74.00	-	-

Remarks

1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Distance Factor(dB) = 20 x Log(3/4.5) [Reference Distance: 3 m, Measurement Distance: 4.5 m: 1 GHz to 6.5 GHz]
6. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)