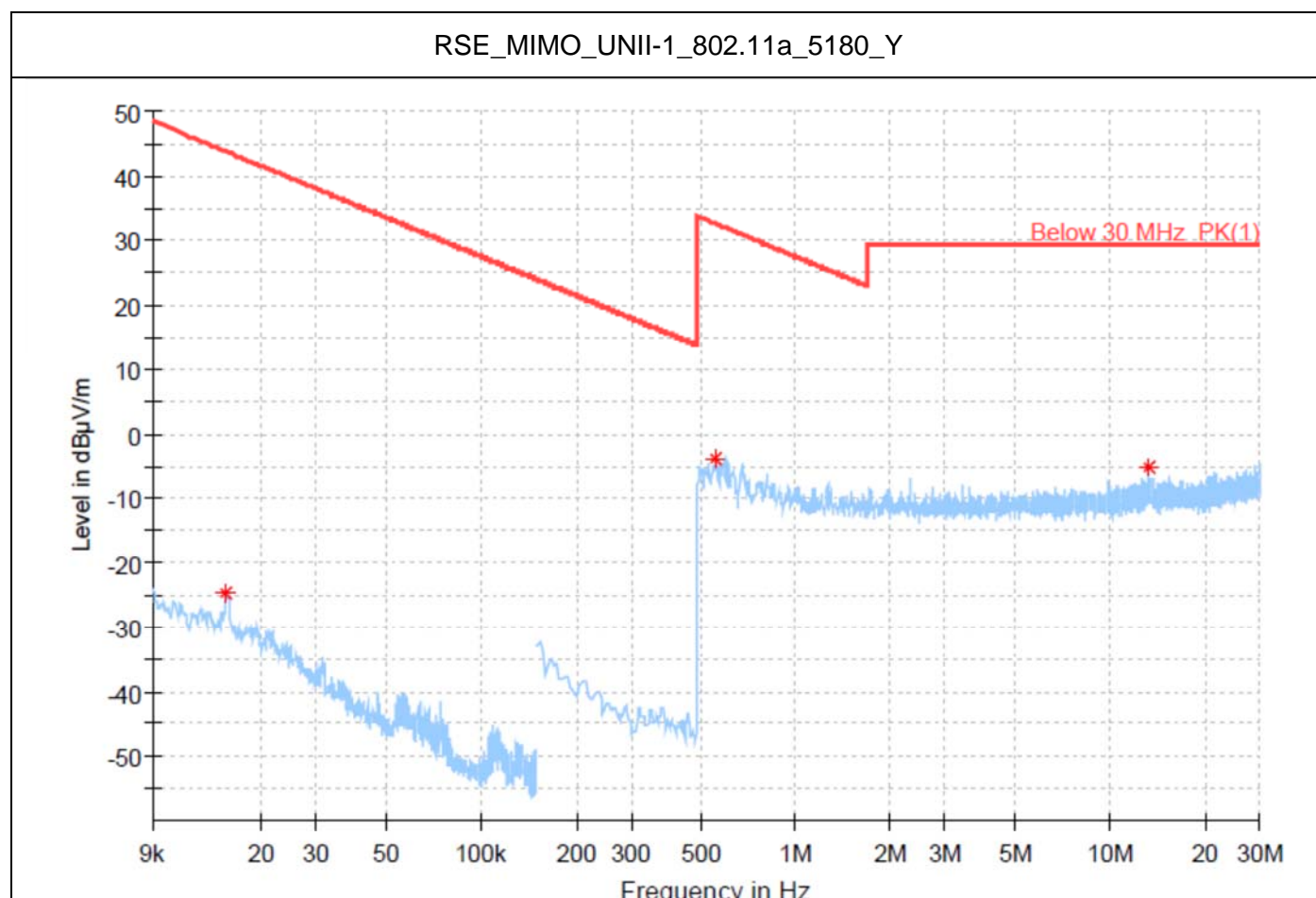


3.5.5 Test Result

3.5.5.1 Radiated Emissions (Below 30 MHz)

3.5.5.1.1 UNII-1 (Below 30 MHz)

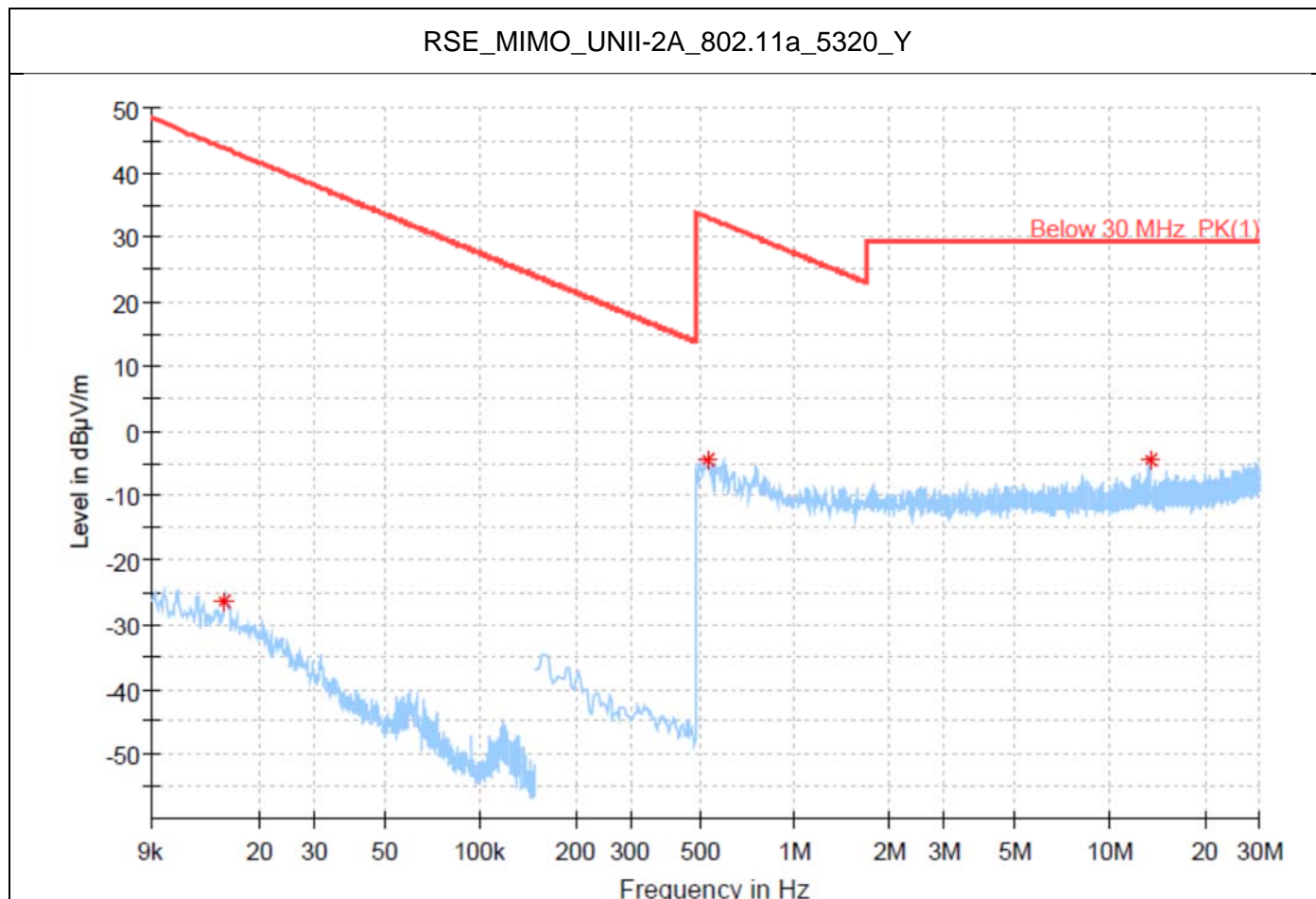


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak [dBµV/m]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Distance Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	34.90	-24.70	-	-	-80	43.82	68.51	100.00	H	212.00	-59.60
0.56	15.78	-3.92	-	-	-40	32.70	36.63	100.00	H	215.00	-19.70
13.36	13.12	-5.28	-	-	-40	29.54	34.82	100.00	H	72.00	-18.40

Remarks

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

3.5.5.1.2 UNII-2A (Below 30 MHz)

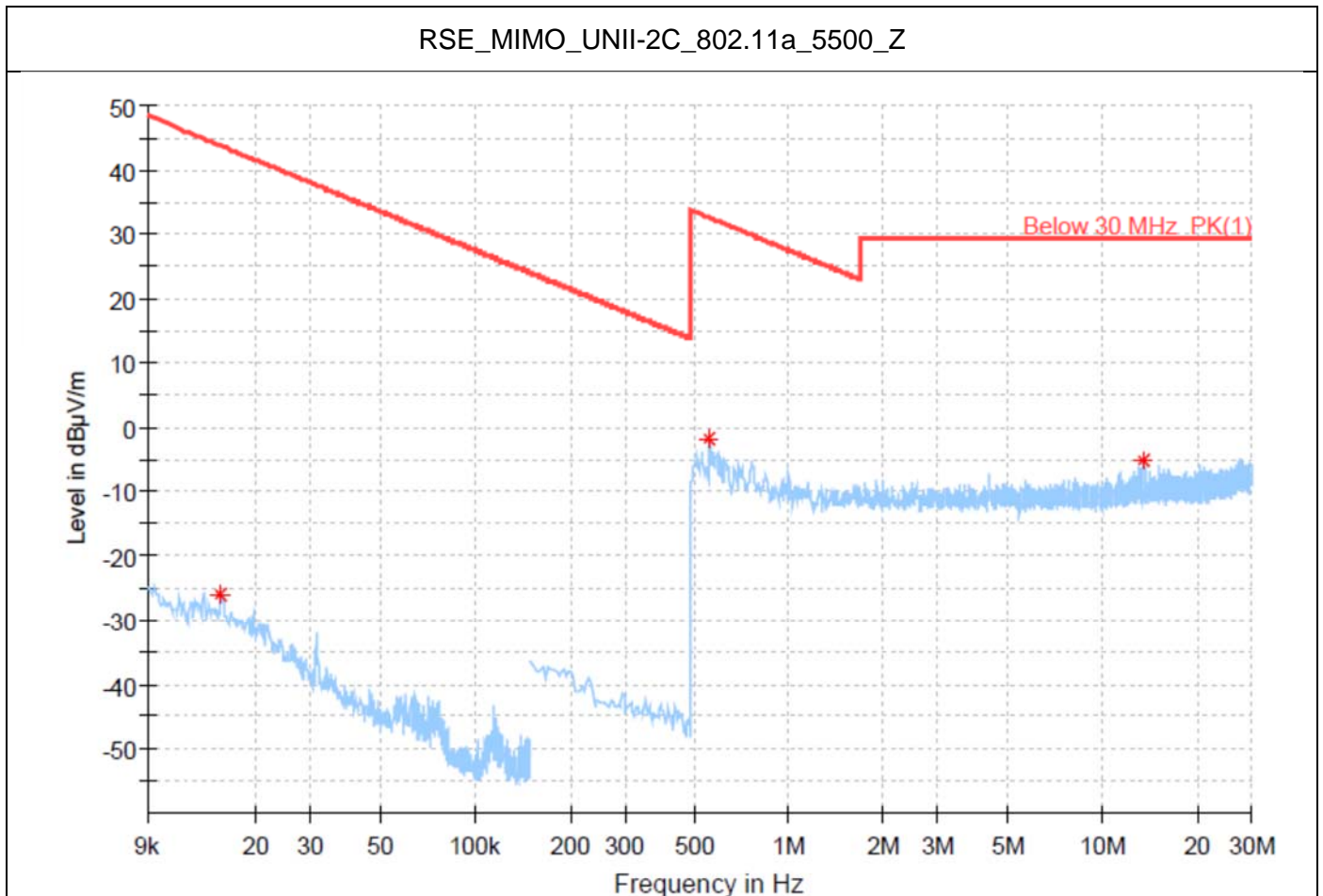


Frequency [MHz]	Peak Reading Value [dBuV/m]	Peak [dBuV/m]	Quasi Reading Value [dBuV/m]	Quasi Peak [dBuV/m]	Distance Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.39	-26.21	-	-	-80	43.82	70.03	100.00	H	186.00	-59.60
0.53	15.23	-4.47	-	-	-40	33.15	37.62	100.00	H	0.00	-19.70
13.47	14.06	-4.34	-	-	-40	29.54	33.88	100.00	H	90.00	-18.40

Remarks

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

3.5.5.1.3 UNII-2C (Below 30 MHz)

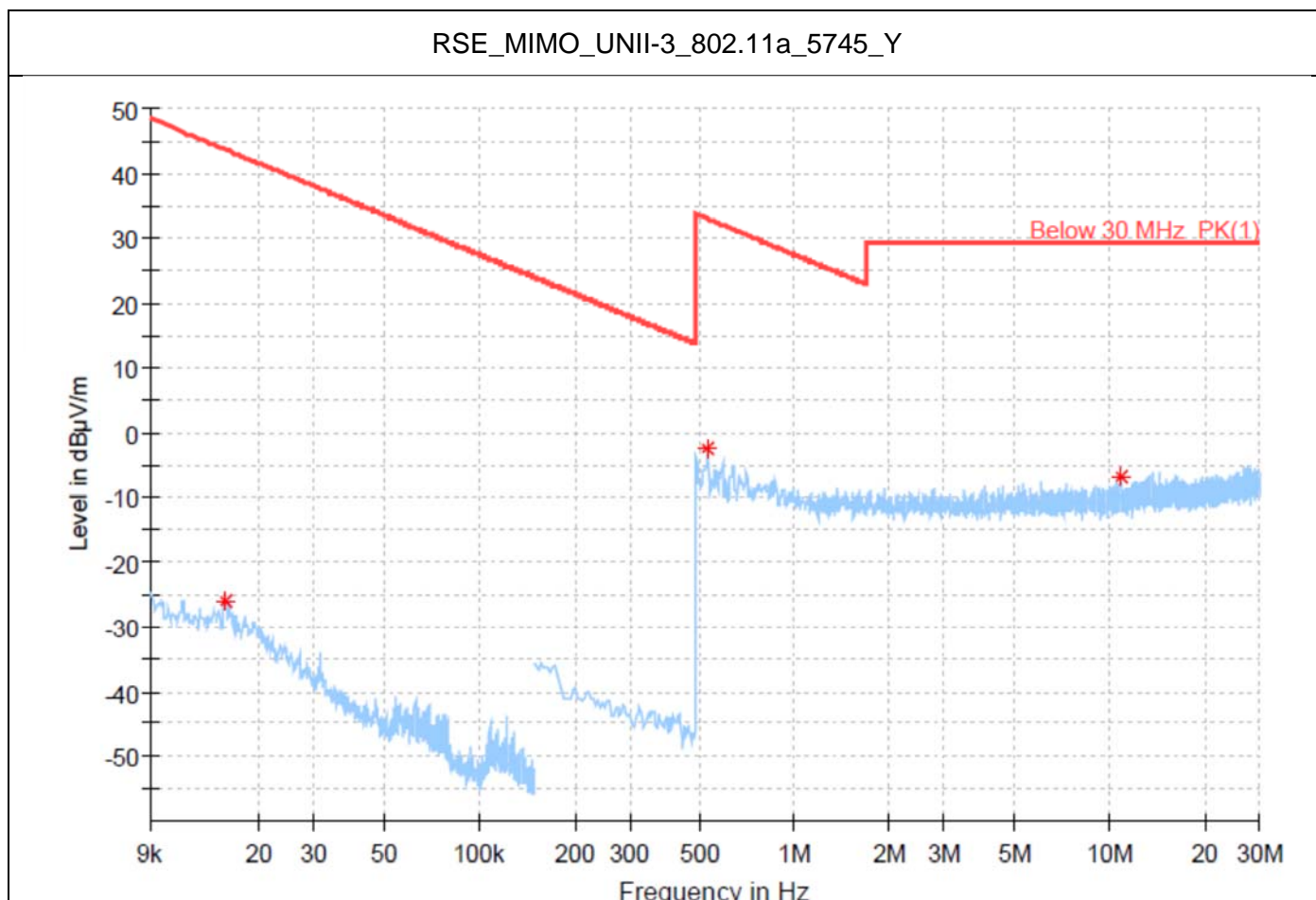


Frequency [MHz]	Peak Reading Value [dBuV/m]	Peak [dBuV/m]	Quasi Reading Value [dBuV/m]	Quasi Peak [dBuV/m]	Distance Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.56	-26.04	-	-	-80	43.82	69.86	100.00	H	292.00	-59.60
0.56	18.05	-1.65	-	-	-40	32.65	34.30	100.00	H	348.00	-19.70
13.50	13.22	-5.18	-	-	-40	29.54	34.72	100.00	H	84.00	-18.40

Remarks

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

3.5.5.1.4 UNII-3 (Below 30 MHz)



Frequency [MHz]	Peak Reading Value [dBuV/m]	Peak [dBuV/m]	Quasi Reading Value [dBuV/m]	Quasi Peak [dBuV/m]	Distance Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
0.02	33.61	-25.99	-	-	-80	43.77	69.76	100.00	H	0.00	-59.60
0.53	17.16	-2.54	-	-	-40	33.15	35.69	100.00	H	219.00	-19.70
10.96	11.87	-6.83	-	-	-40	29.54	36.37	100.00	H	98.00	-18.70

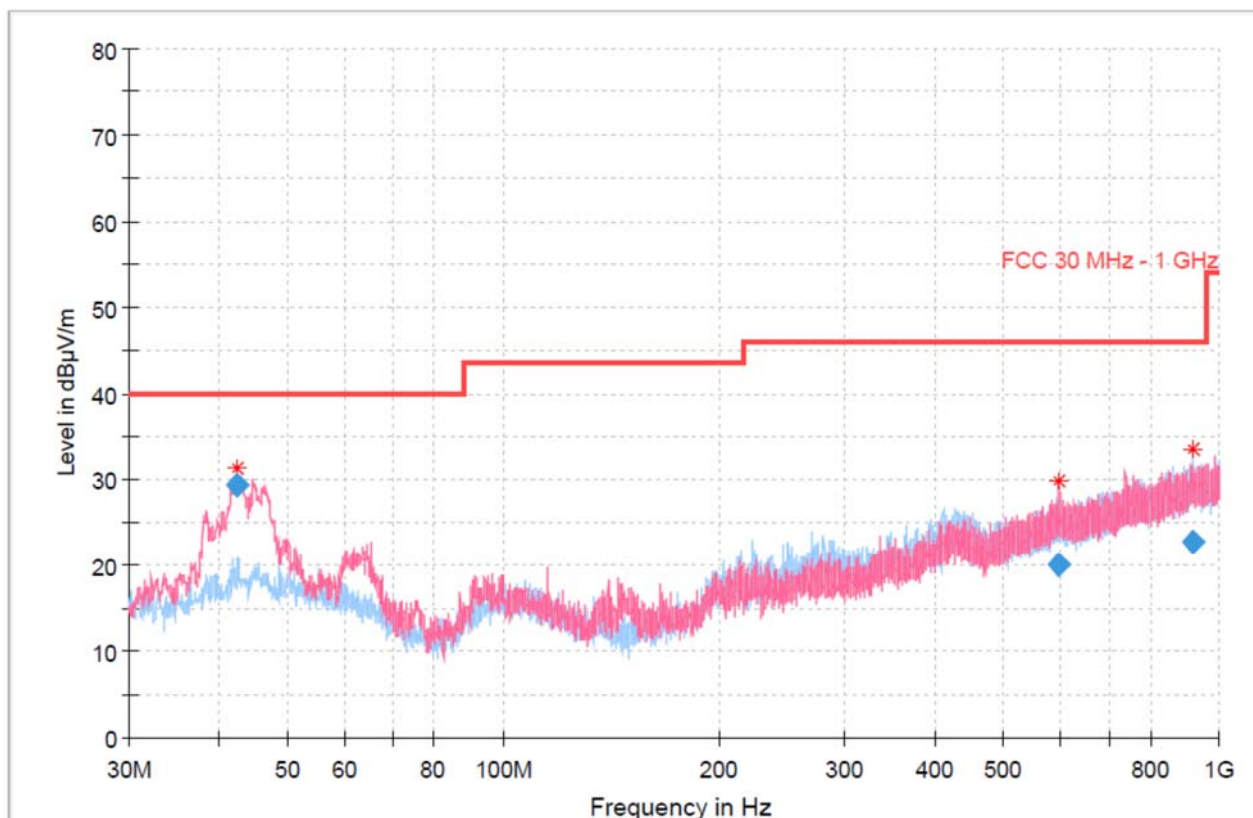
Remarks

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

3.5.5.2 Radiated Emissions (Below 1 GHz)

3.5.5.2.1 UNII-1 (Below 1 GHz)

RSE_MIMO_UNII-1_802.11a_5180



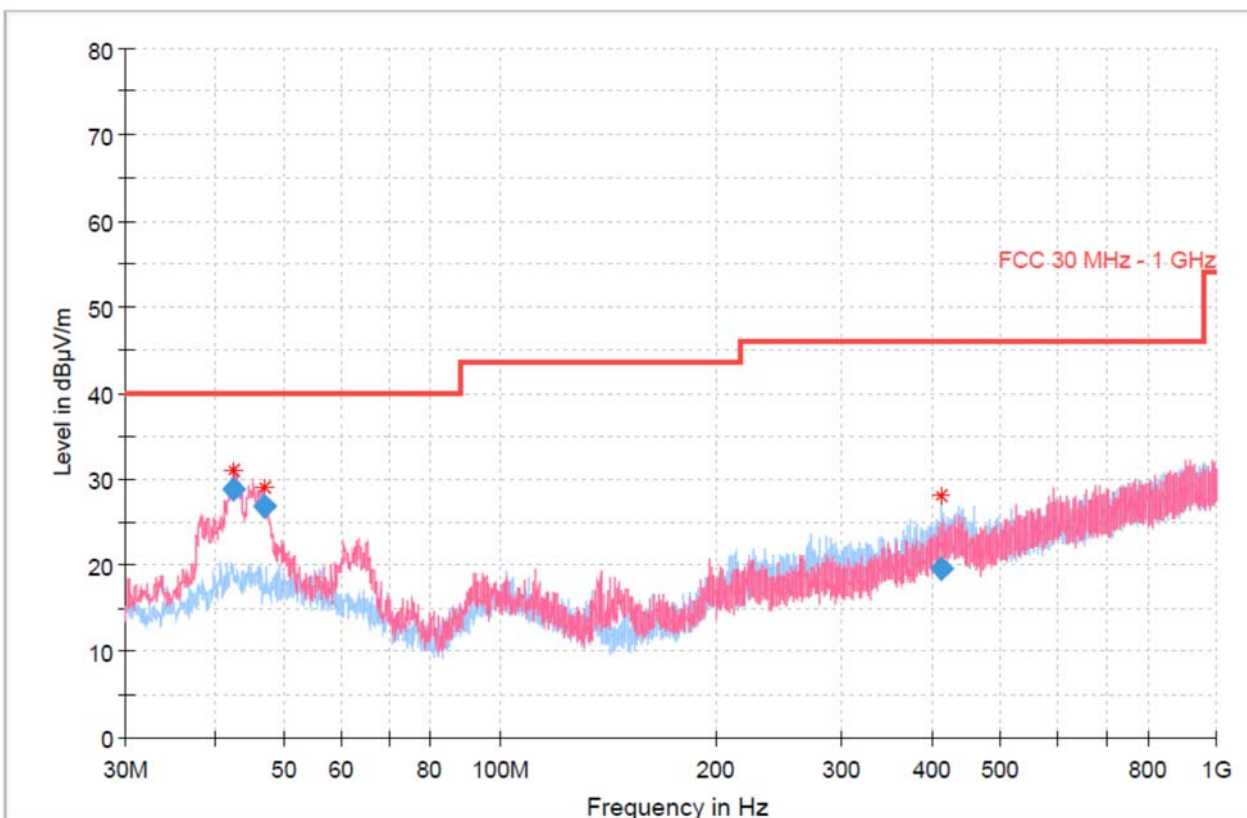
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.50	49.68	29.38	40.00	10.62	100	V	309	-20.30
596.41	32.74	20.14	46.00	25.86	100	V	176	-12.60
915.60	31.77	22.67	46.00	23.33	100	H	272	-9.10

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)

3.5.5.2.2 UNII-2A (Below 1 GHz)

RSE_MIMO_UNII-2A_802.11a_5320



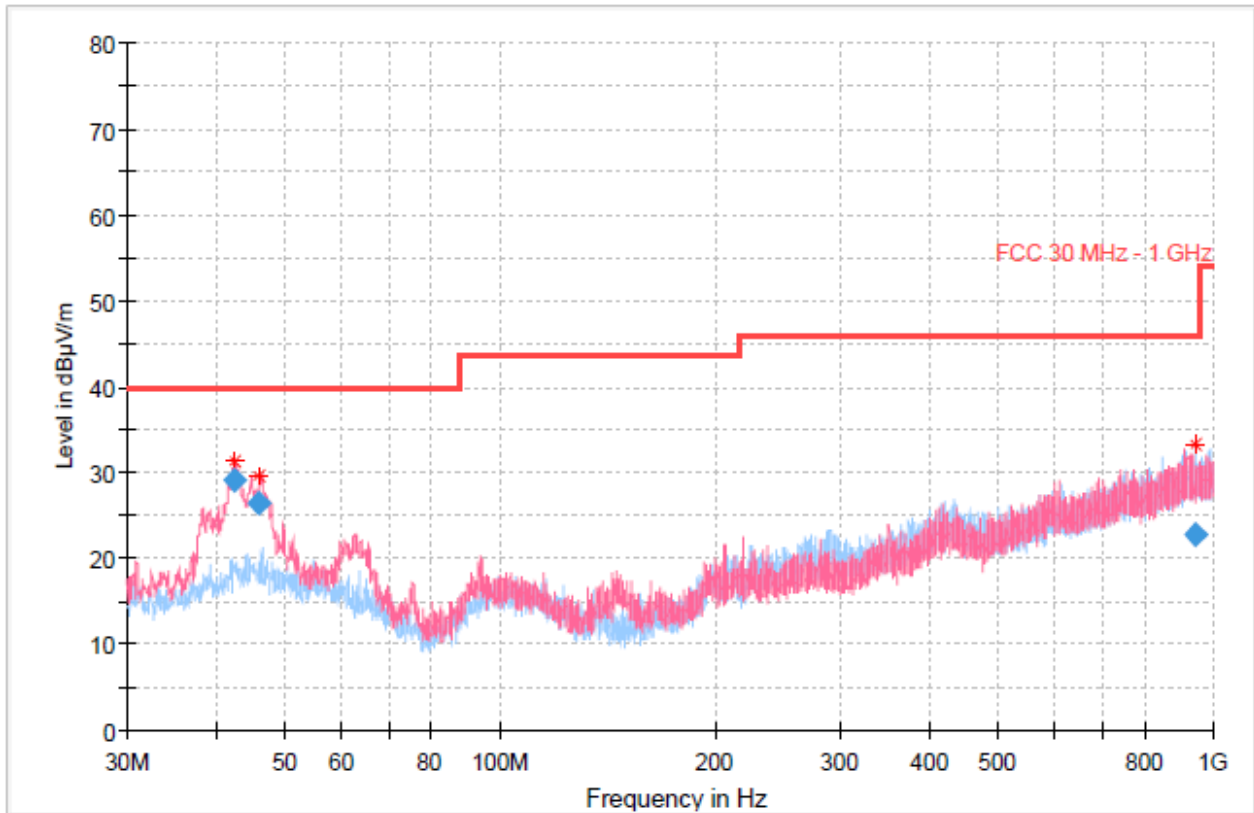
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.50	49.27	28.97	40.00	11.03	100	V	193	-20.30
46.76	46.82	26.92	40.00	13.08	100	V	245	-19.90
412.40	35.85	19.65	46.00	26.35	100	H	90	-16.20

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)

3.5.5.2.3 UNII-2C (Below 1 GHz)

RSE_MIMO_UNII-2C_802.11a_5500



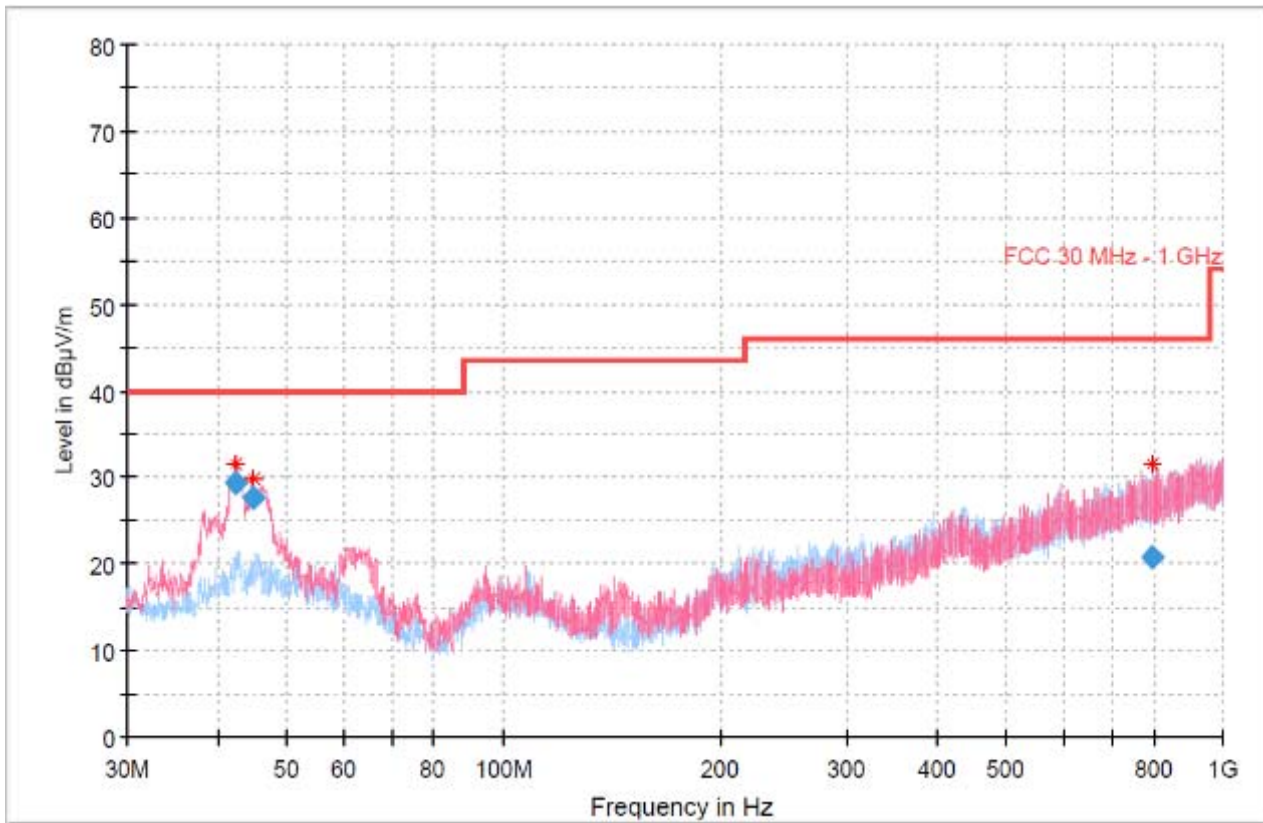
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.45	49.40	29.10	40.00	10.90	100	V	275	-20.30
46.01	46.41	26.51	40.00	13.49	100	V	275	-19.90
944.76	32.16	22.86	46.00	23.14	100	H	38	-9.30

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)

3.5.5.2.4 UNII-3 (Below 1 GHz)

RSE(Below 1G)_MIMO_UNII-3_802.11a_5745



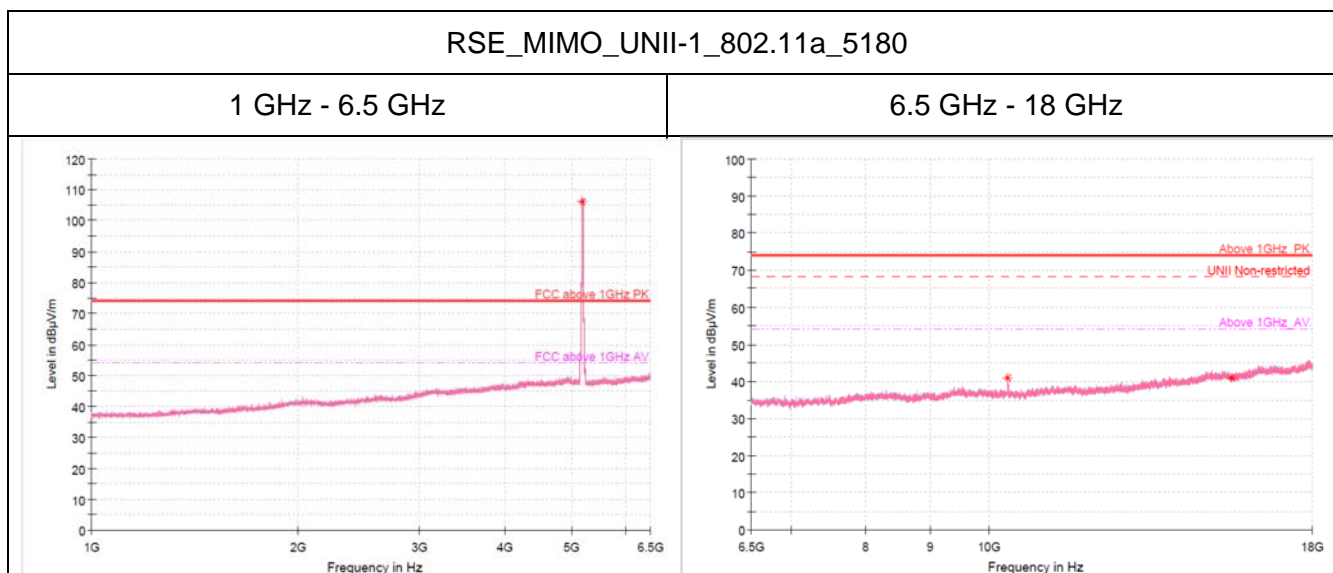
Frequency [MHz]	Quasi Reading Value [dBµV/m]	Quasi Peak [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB]
42.50	49.63	29.33	40.00	10.67	100	V	274	-20.30
44.82	47.68	27.68	40.00	12.32	100	V	282	-20.00
797.00	31.39	20.79	46.00	25.21	100	H	2	-10.60

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)

3.5.5.3.1 UNII-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]
5 180.00	88.31	106.11	-	-	300	V	161	17.80	-	74.00	-	-
10 355.64	32.10	41.00	-	-	100	V	346	8.90	33.00	74.00	-	-
15 540.05	26.63	41.13	-	-	400	V	157	14.50	32.87	74.00	-	-

Remarks

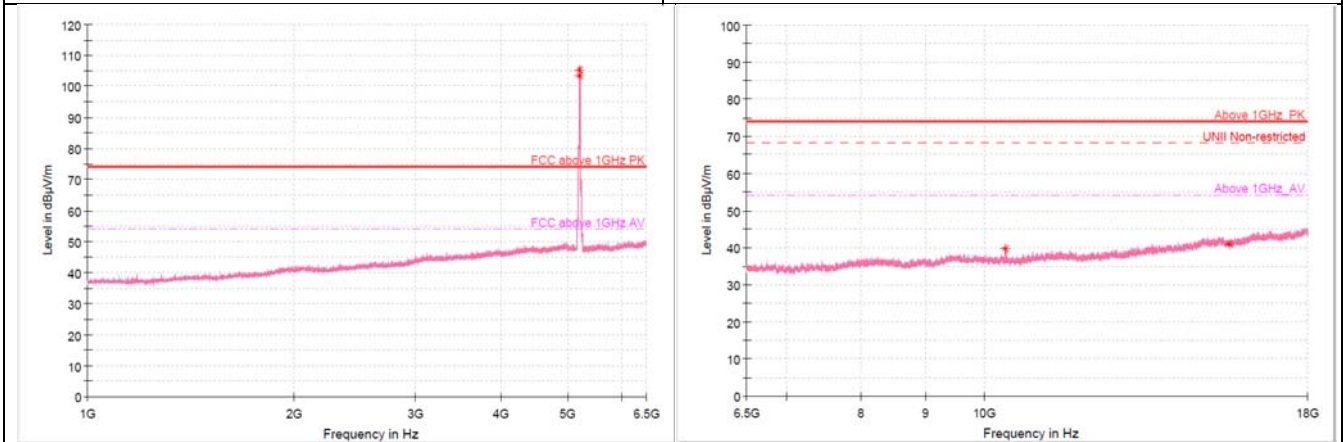
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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_802.11a_5200

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]
5 199.71	87.46	105.26	-	-	300	V	167	17.80	-	74.00	-	-
5 200.17	85.55	103.35	-	-	200	H	198	17.80	-	74.00	-	-
10 400.07	30.77	39.77	-	-	100	V	0	9.00	34.23	74.00	-	-
15 599.64	26.51	41.11	-	-	400	H	123	14.60	32.89	74.00	-	-

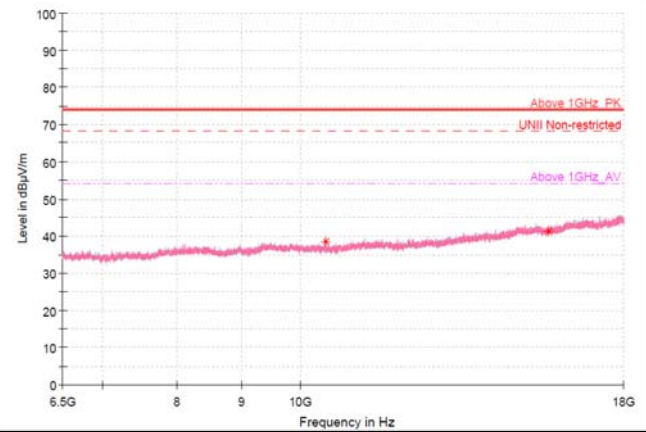
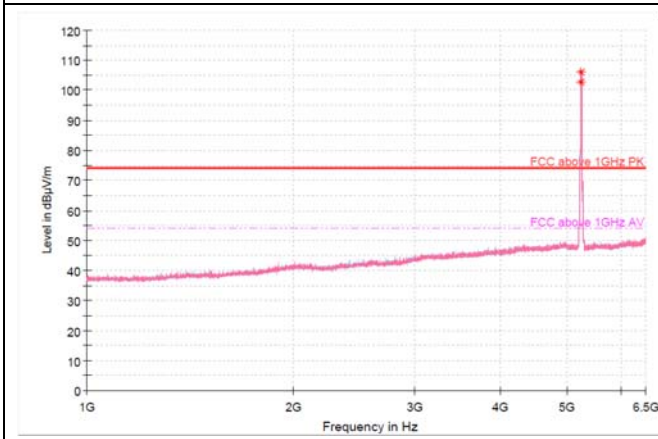
Remarks

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_802.11a_5240

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	88.31	106.11	-	-	300	V	167	17.80	-	74.00	-	-
5 240.50	85.01	102.81	-	-	200	H	201	17.80	-	74.00	-	-
10 480.57	29.42	38.62	-	-	300	V	23	9.20	35.38	74.00	-	-
15 720.39	26.51	41.41	-	-	300	V	67	14.90	32.59	74.00	-	-

Remarks

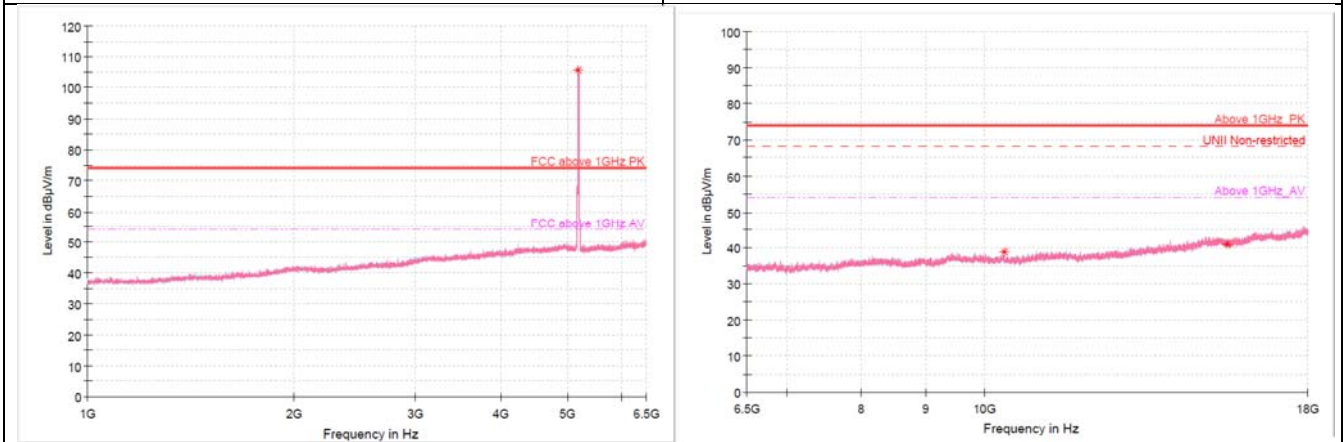
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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_802.11n(HT20)_5180

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	87.71	105.51	-	-	300	V	171	17.80	-	74.00	-	-
10 363.48	29.79	38.69	-	-	100	V	350	8.90	35.31	74.00	-	-
15 540.05	26.50	41.00	-	-	100	H	142	14.50	33.00	74.00	-	-

Remarks

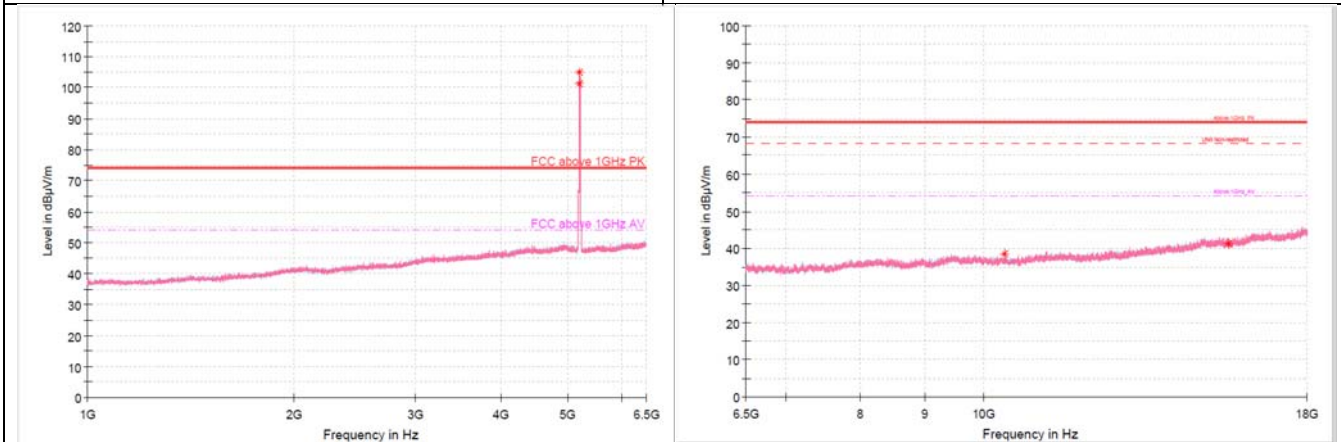
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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_802.11n(HT20)_5200

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	83.65	101.45	-	-	200	H	199	17.80	-	74.00	-	-
5 200.63	86.97	104.77	-	-	300	V	168	17.80	-	74.00	-	-
10 404.25	29.68	38.68	-	-	200	V	347	9.00	35.32	74.00	-	-
15 600.16	26.77	41.37	-	-	100	V	350	14.60	32.63	74.00	-	-

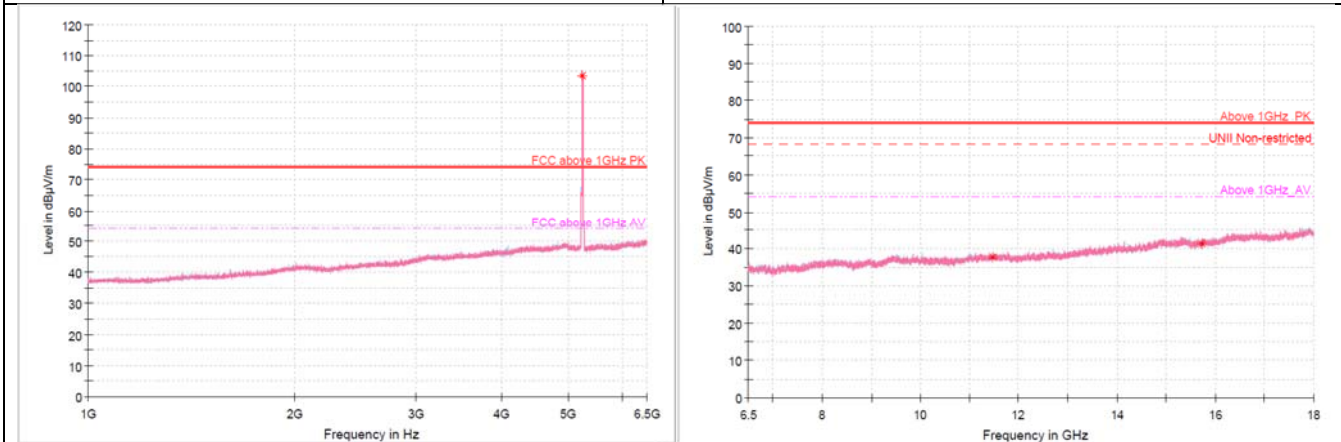
Remarks

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_802.11n(HT20)_5240

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



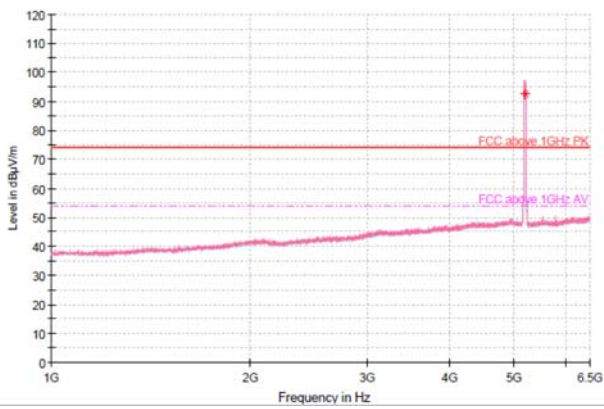
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 240.04	85.71	103.51	-	-	100	H	181	17.80	-	74.00	-	-
11 480.02	27.31	37.71	-	-	400	V	2	10.40	36.29	74.00	-	-
15 720.39	26.40	41.30	-	-	400	H	268	14.90	32.70	74.00	-	-

Remarks

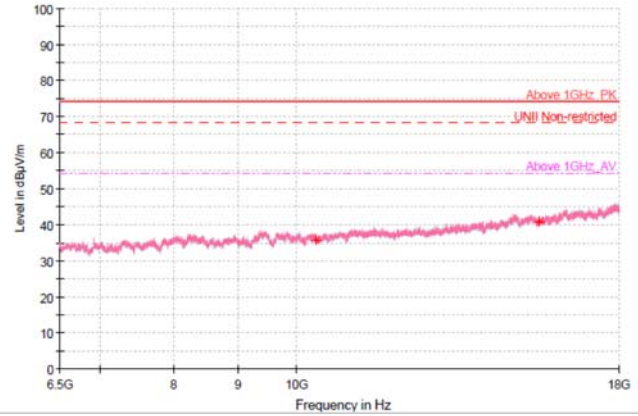
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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_802.11ac(VHT40)_5190

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	74.72	92.52	-	-	300	V	171	17.80	-18.52	74.00	-	-
10 380.20	26.91	35.91	-	-	300	V	0	9.00	38.09	74.00	-	-
15 570.36	26.27	40.87	-	-	300	V	0	14.60	33.13	74.00	-	-

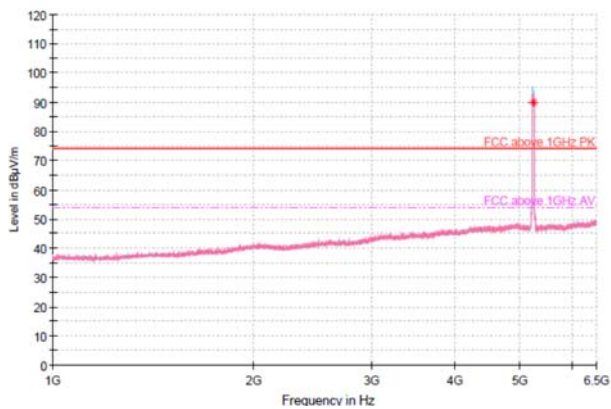
Remarks

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)

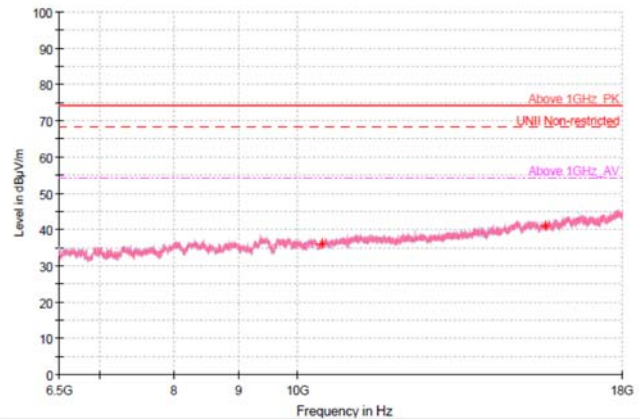


RSE_MIMO_UNII-1_802.11ac(VHT40)_5230

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	72.14	89.94	-	-	100	H	199	17.80	-15.94	74.00	-	-
10 460.18	26.91	36.01	-	-	100	V	230	9.10	37.99	74.00	-	-
15 690.07	26.42	41.12	-	-	200	H	199	14.70	32.88	74.00	-	-

Remarks

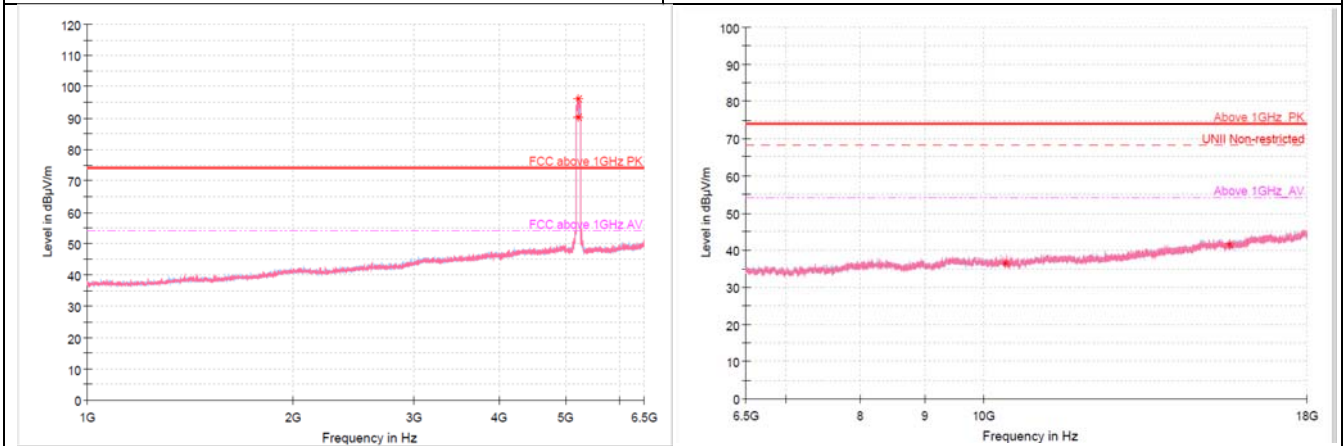
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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_802.11ac(VHT80)_5210

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz

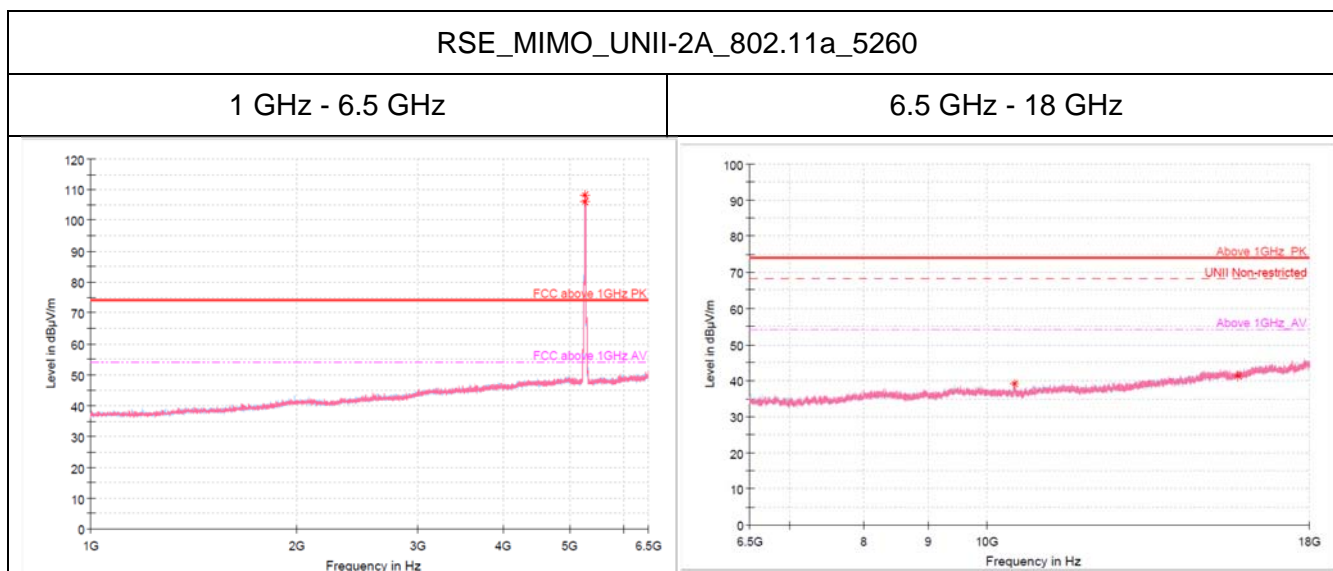


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 210.25	72.52	90.32	-	-	100	H	202	17.80	-	74.00	-	-
5 212.54	78.18	95.98	-	-	100	H	202	17.80	-	74.00	-	-
10 419.93	27.44	36.44	-	-	300	H	68.00	9.00	37.56	74.00	-	-
15 630.48	26.94	41.64	-	-	200	V	200	14.70	32.36	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)

3.5.5.3.2 UNII-2A (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]
5 255.63	90.47	108.27	-	-	300	V	169	17.80	-	74.00	-	-
5 260.21	88.18	105.98	-	-	300	V	169	17.80	-	74.00	-	-
10 520.82	29.80	39.10	-	-	100	V	44	9.30	34.90	74.00	-	-
15 799.84	26.31	41.41	-	-	200	H	173	15.10	32.59	74.00	-	-

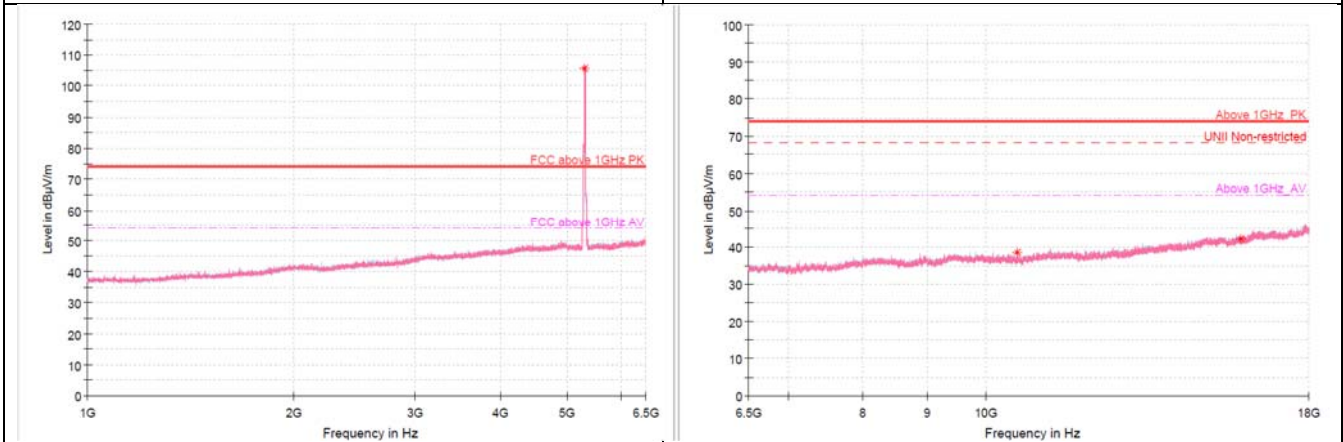
Remarks

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-2A_802.11a_5300

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]
5 300.08	87.79	105.59	-	-	300	V	166	17.80	-	74.00	-	-
10 600.80	29.03	38.43	-	-	100	V	143	9.40	35.57	74.00	-	-
15 901.77	26.96	42.16	-	-	100	V	299	15.20	31.84	74.00	-	-

Remarks

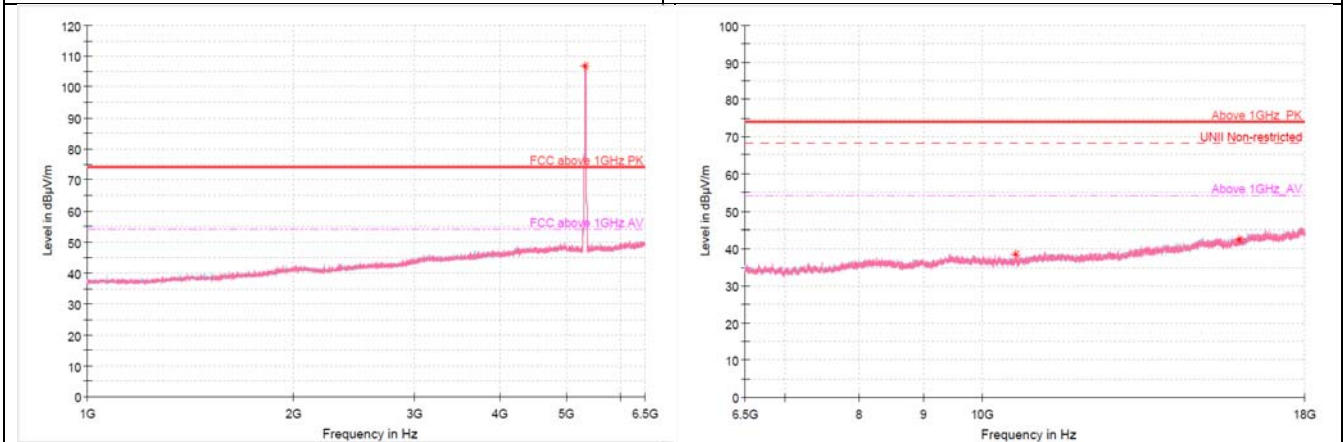
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2A_802.11a_5320

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]
5 320.25	88.77	106.67	-	-	300	V	167	17.90	-	74.00	-	-
10 642.61	29.26	38.56	-	-	200	V	100	9.30	35.44	74.00	-	-
15 960.32	26.93	42.43	-	-	200	H	268	15.50	31.57	74.00	-	-

Remarks

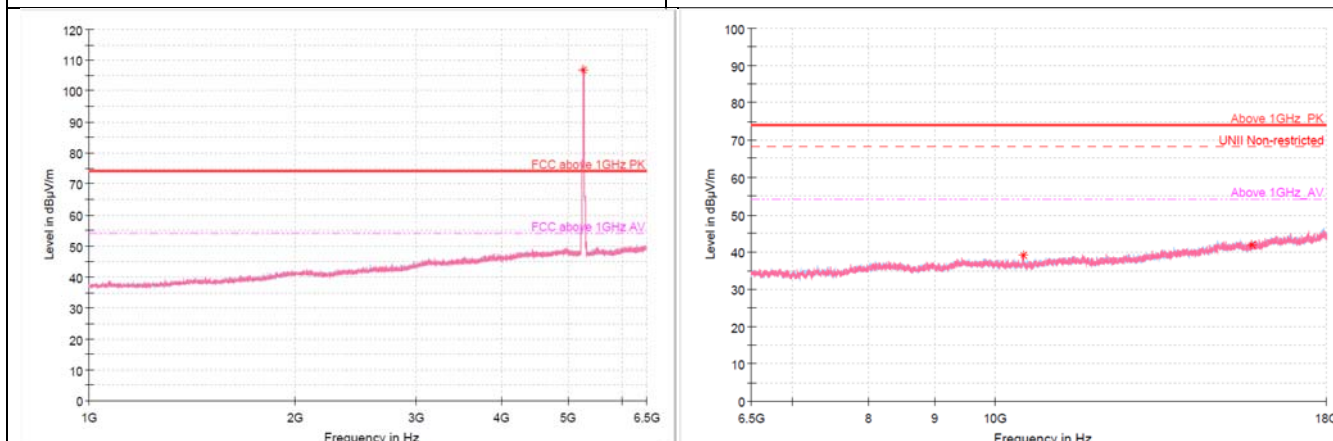
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2A_802.11n(HT20)_5260

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]
5 260.21	88.85	106.65	-	-	300	V	168	17.80	-	74.00	-	-
10 521.86	29.81	39.11	-	-	100	V	14	9.30	34.89	74.00	-	-
15 779.45	26.92	42.02	-	-	300	H	5	15.10	31.98	74.00	-	-

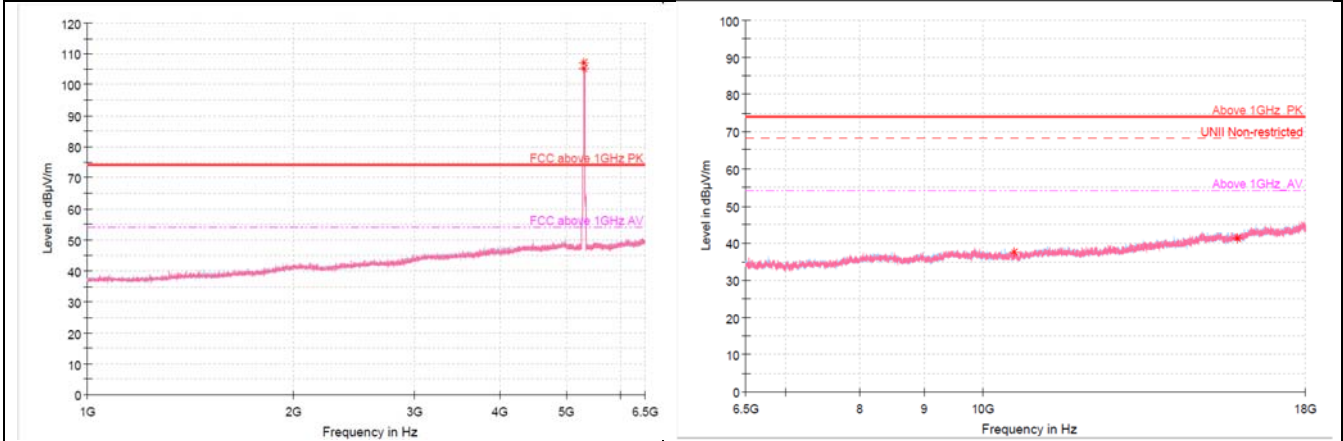
Remarks

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_MIMO_UNII-2A_802.11n(HT20)_5300

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]
5 300.08	87.54	105.34	-	-	300	V	163	17.80	-	74.00	-	-
5 301.00	89.39	107.19	-	-	300	V	167	17.80	-	74.00	-	-
10 600.27	28.21	37.61	-	-	100	V	47	9.40	36.39	74.00	-	-
15 900.20	26.08	41.28	-	-	300	V	306	15.20	32.72	74.00	-	-

Remarks

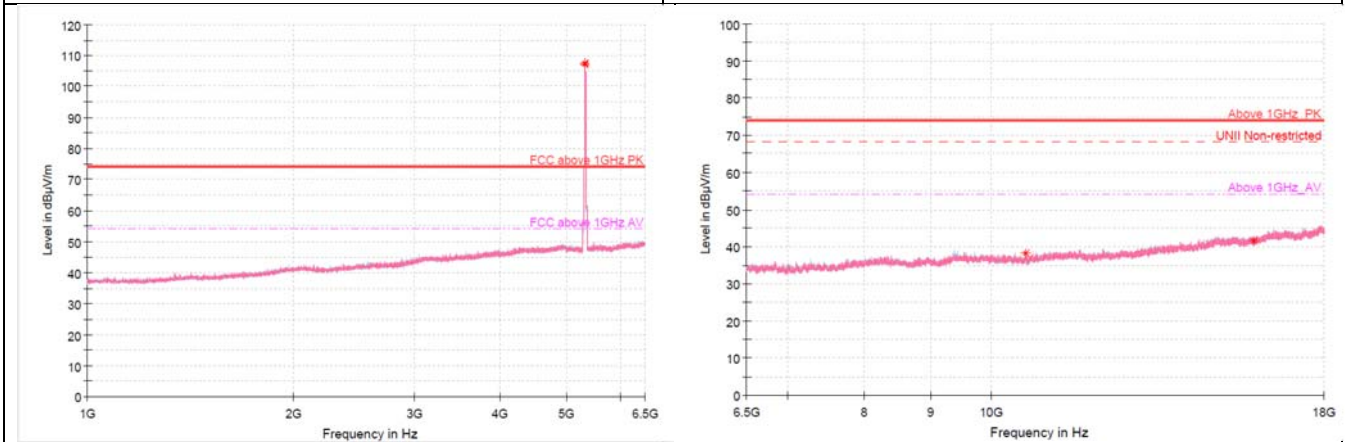
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2A_802.11n(HT20)_5320

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]
5 320.25	89.09	106.99	-	-	300	V	166	17.90	-	74.00	-	-
5 321.17	89.70	107.60	-	-	300	V	166	17.90	-	74.00	-	-
10 640.00	28.98	38.28	-	-	100	V	46	9.30	35.72	74.00	-	-
15 901.25	26.29	41.49	-	-	100	H	134	15.20	32.51	74.00	-	-

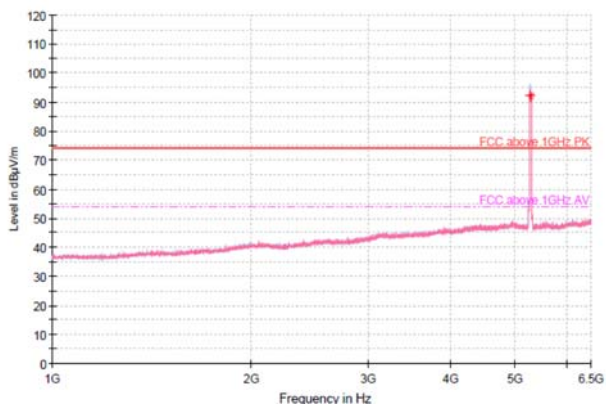
Remarks

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)

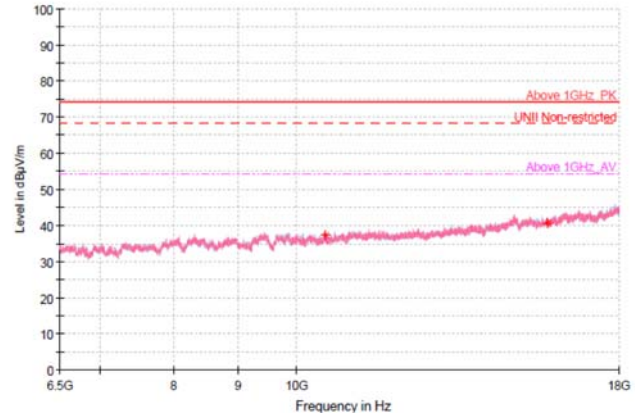


RSE_MIMO_UNII-2A_802.11ac(VHT40)_5270

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]
5 270.29	74.24	92.04	-	-	100	H	203	17.80	-18.04	74.00	-	-
10 540.16	28.05	37.25	-	-	200	H	8	9.20	36.75	74.00	-	-
15 810.82	25.51	40.61	-	-	100	V	48	15.10	33.39	74.00	-	-

Remarks

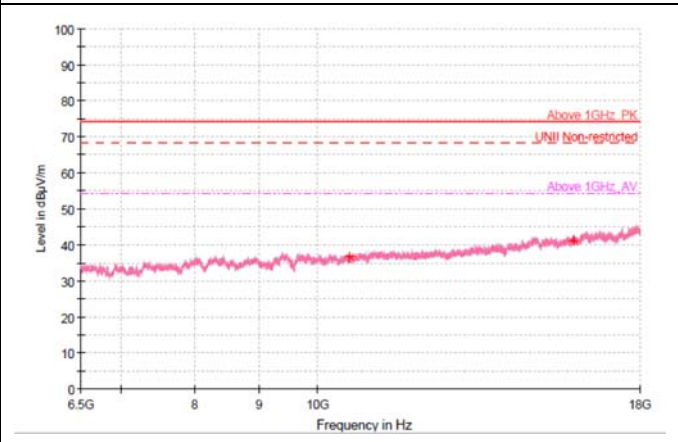
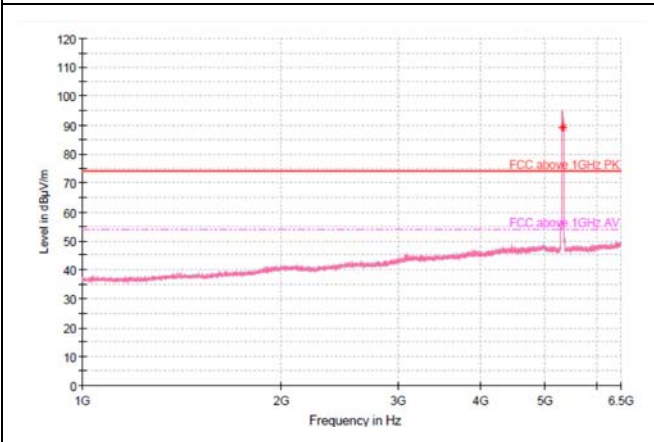
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2A_802.11ac(VHT40)_5310

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]
5 310.17	71.39	89.29	-	-	100	H	214	17.90	-15.29	74.00	-	-
10 620.66	27.38	36.78	-	-	400	H	158	9.40	37.22	74.00	-	-
15 930.00	25.84	41.14	-	-	100	H	253	15.30	32.86	74.00	-	-

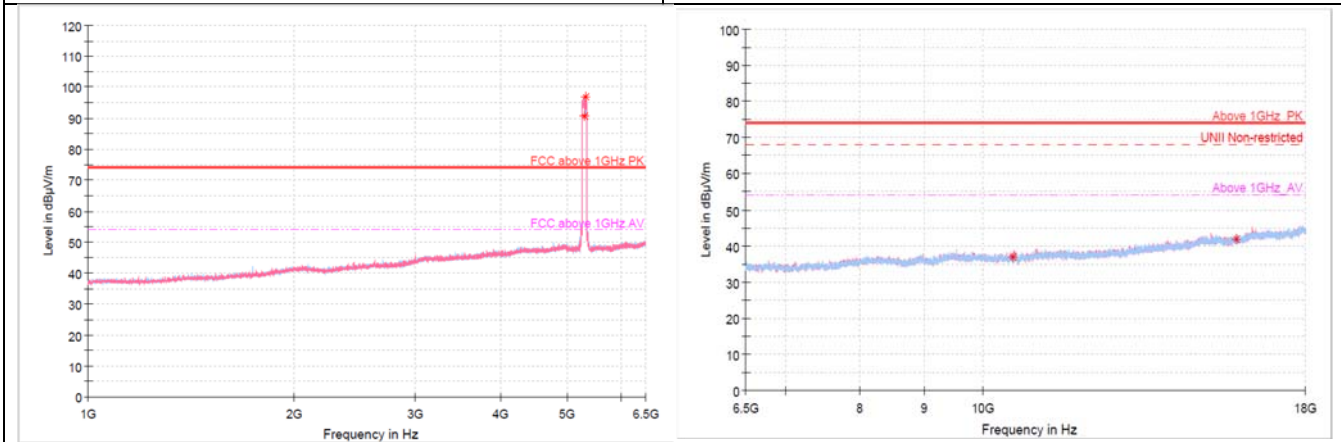
Remarks

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-2A_802.11ac(VHT80)_5290

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz

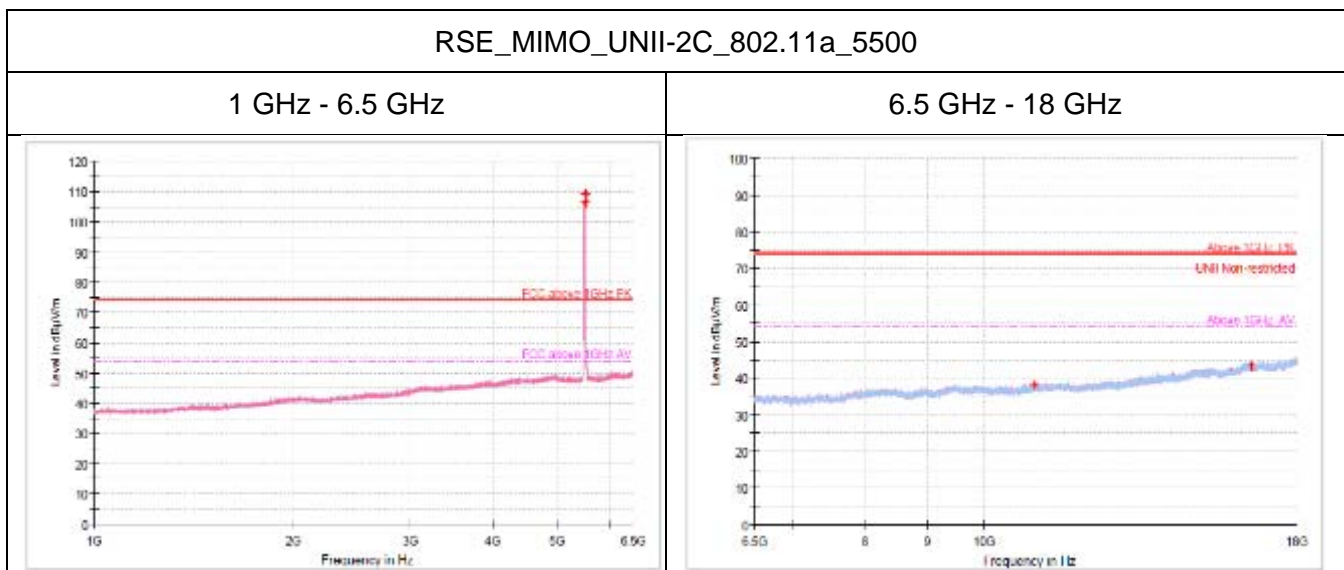


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 290.46	72.78	90.58	-	-	300	H	303	17.80	-	74.00	-	-
5 307.42	79.03	96.93	-	-	300	V	170	17.90	-	74.00	-	-
10 579.36	27.53	36.83	-	-	100	H	55	9.30	37.17	74.00	-	-
15 870.93	26.90	42.00	-	-	100	V	251	15.10	32.00	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)

3.5.5.3.3 UNII-2C (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]
5 499.92	87.78	106.38	-	-	300	V	167	18.60	-	74.00	-	-
5 501.29	90.80	109.40	-	-	300	V	171	18.60	-	74.00	-	-
11 009.05	28.42	38.22	-	-	100	H	168	9.80	35.78	74.00	-	-
16 503.95	26.83	43.53	-	-	300	H	212	16.70	30.47	74.00	-	-

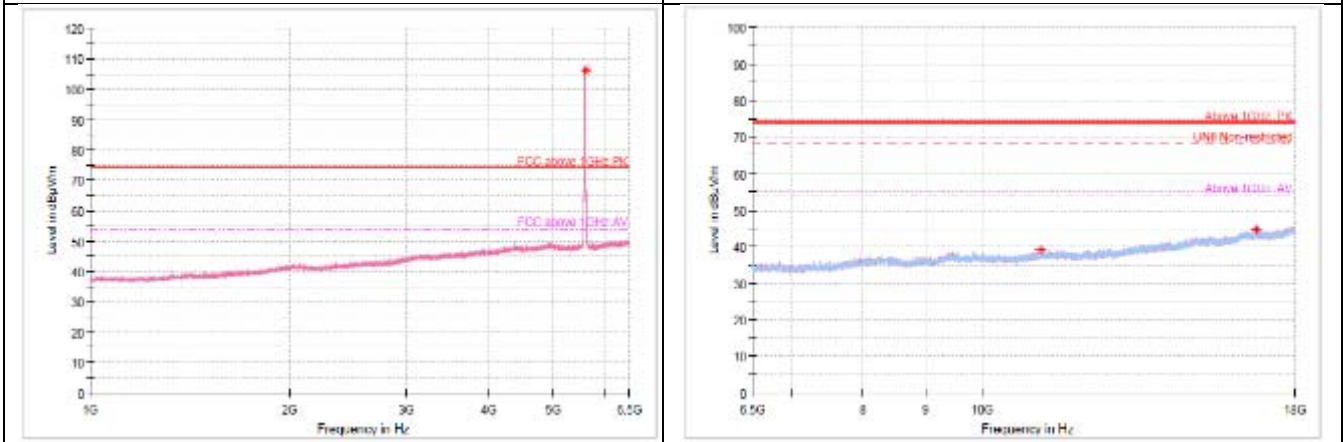
Remarks

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_MIMO_UNII-2C_802.11a_5600

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]
5 580.13	87.04	105.74	-	-	300	V	165	18.70	-	74.00	-	-
5 581.50	88.07	106.77	-	-	100	H	201	18.70	-	74.00	-	-
11 158.02	29.14	39.14	-	-	100	V	316	10.00	34.86	74.00	-	-
16 736.57	27.83	44.53	-	-	100	V	55	16.70	29.47	74.00	-	-

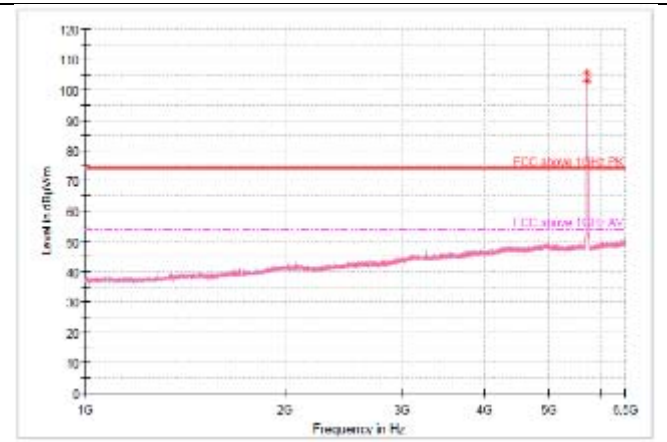
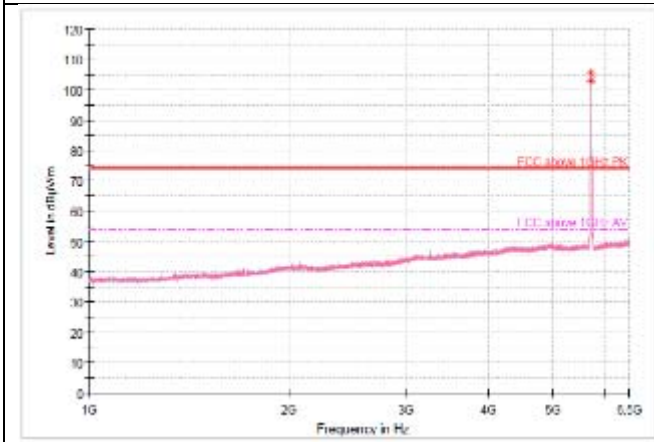
Remarks

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_MIMO_UNII-2C_802.11a_5700

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]
5 700.21	84.36	102.96	-	-	100	H	194	18.60	-	74.00	-	-
5 706.17	87.20	105.80	-	-	100	H	198	18.60	-	74.00	-	-
11 060.27	27.10	36.90	-	-	100	V	140	9.80	37.10	74.00	-	-
16 590.20	25.97	42.37	-	-	300	V	29	16.40	31.63	74.00	-	-

Remarks

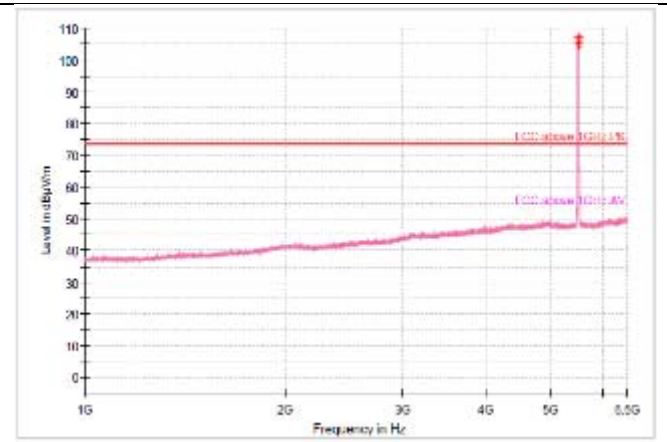
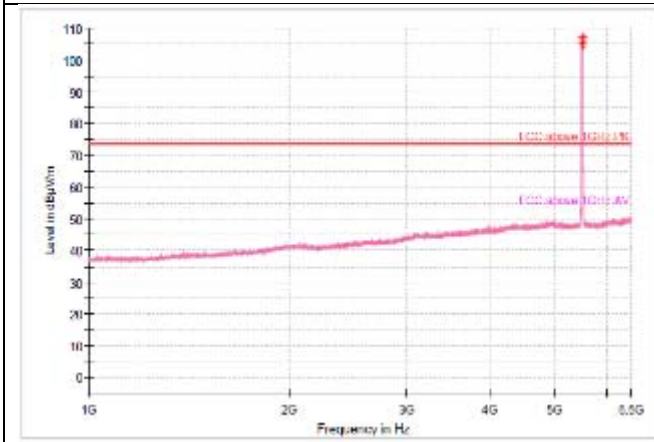
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2C_802.11n(HT20)_5500

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]
5 499.92	86.44	105.04	-	-	300	V	170	18.60	-	74.00	-	-
5 501.75	88.65	107.25	-	-	300	V	170	18.60	-	74.00	-	-
11 000.68	28.30	38.10	-	-	200	V	0	9.80	35.90	74.00	-	-
16 737.61	27.40	44.10	-	-	300	H	200	16.70	29.90	74.00	-	-

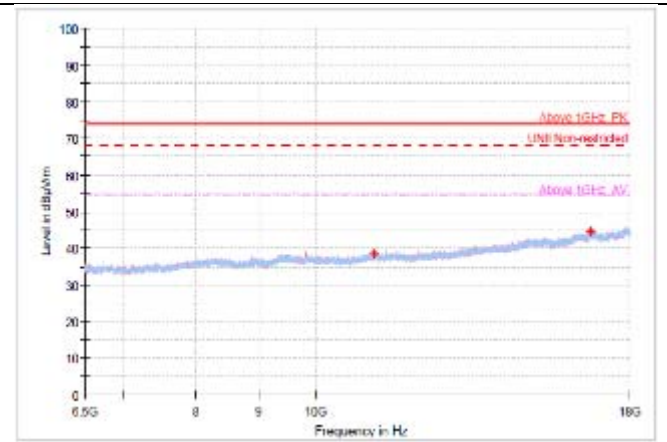
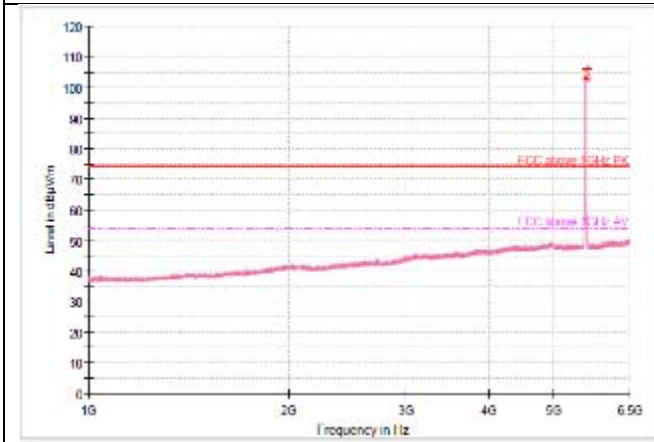
Remarks

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-2C_802.11n(HT20)_5600

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]
5 580.13	84.45	103.15	-	-	300	V	167	18.70	-	74.00	-	-
5 581.50	87.50	106.20	-	-	300	V	167	18.70	-	74.00	-	-
11 159.07	28.42	38.42	-	-	100	V	23	10.00	35.58	74.00	-	-
16 739.18	28.05	44.75	-	-	100	V	56	16.70	29.25	74.00	-	-

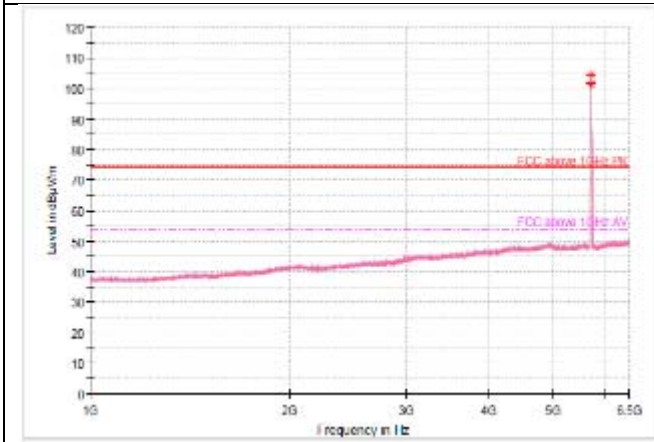
Remarks

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)

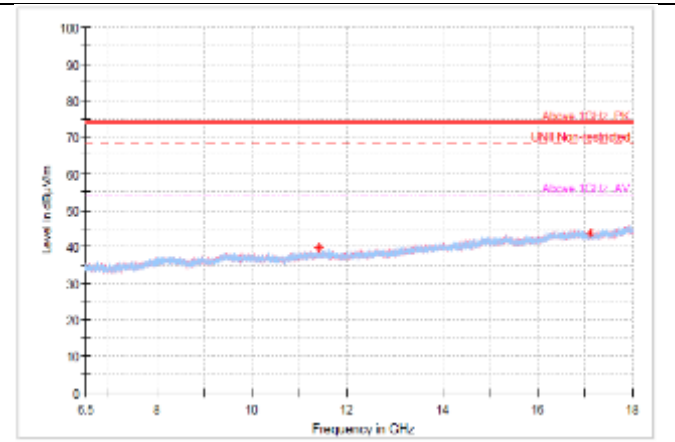


RSE_MIMO_UNII-2C_802.11n(HT20)_5700

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]
5 698.83	85.95	104.55	-	-	100	H	289	18.60	-	74.00	-	-
5 699.75	82.74	101.34	-	-	300	V	164	18.60	-	74.00	-	-
5 700.21	82.97	101.57	-	-	100	H	277	18.60	-	74.00	-	-
11 403.70	29.60	39.80	-	-	300	V	0	10.20	34.20	74.00	-	-
17 115.02	27.10	43.60	-	-	100	H	344	16.50	30.40	74.00	-	-

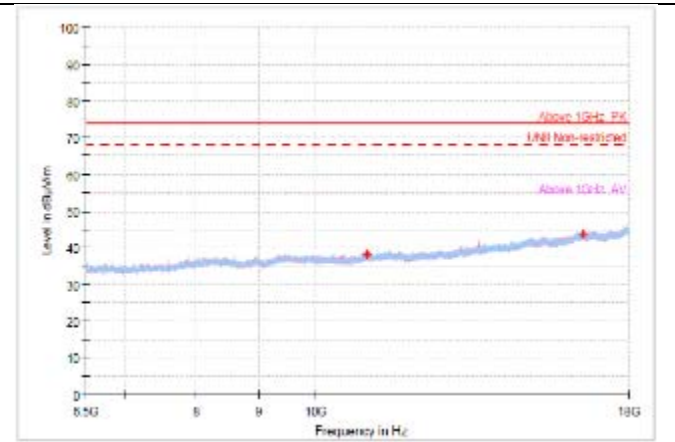
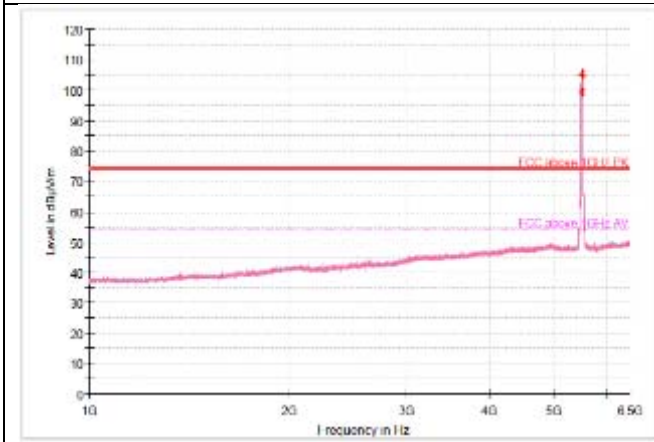
Remarks

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-2C_802.11n(HT40)_5510

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]
5 502.67	86.60	105.20	-	-	300	V	171	18.60	-	74.00	-	-
5 510.00	80.87	99.47	-	-	300	V	167	18.60	-	74.00	-	-
11 022.64	28.55	38.35	-	-	200	H	43	9.80	35.65	74.00	-	-
16 504.48	26.99	43.69	-	-	100	V	148	16.70	30.31	74.00	-	-

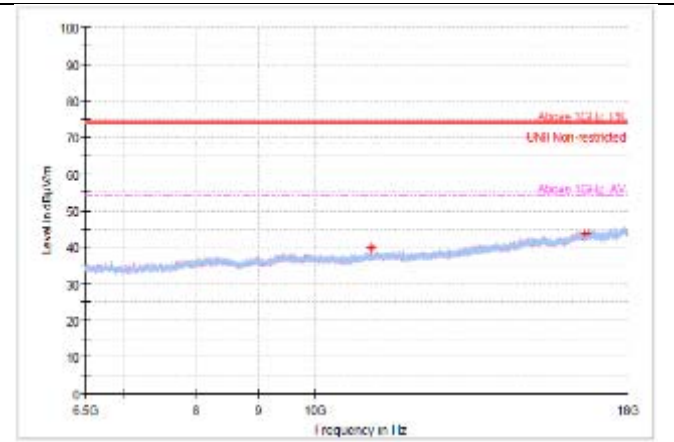
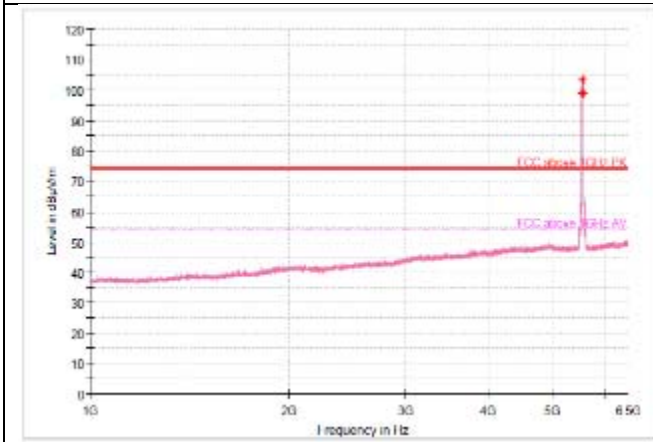
Remarks

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-2C_802.11n(HT40)_5590

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]
5 549.88	80.26	98.96	-	-	300	V	164	18.70	-	74.00	-	-
5 553.08	84.63	103.33	-	-	300	V	170	18.70	-	74.00	-	-
11 122.48	29.78	39.78	-	-	100	H	357	10.00	34.22	74.00	-	-
16 632.55	27.25	43.85	-	-	300	V	40	16.60	30.15	74.00	-	-

Remarks

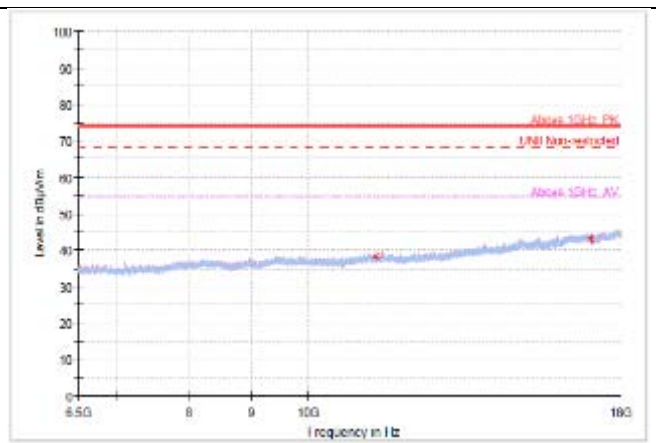
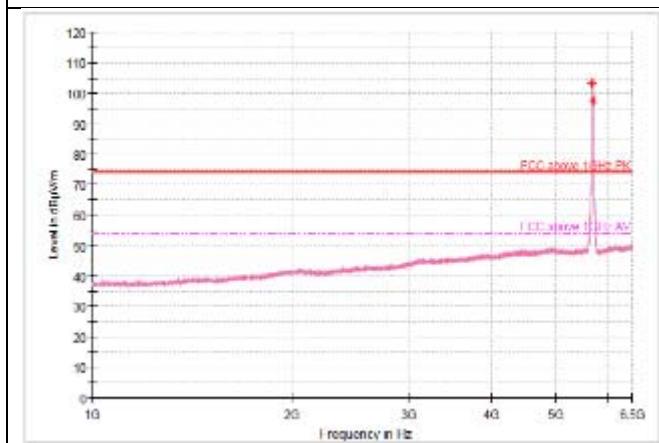
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-2C_802.11n(HT40)_5670

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]
5 664.46	85.06	103.66	-	-	300	V	175	18.60	-	74.00	-	-
5 669.96	78.83	97.43	-	-	300	V	162	18.60	-	74.00	-	-
11 339.93	28.05	38.15	-	-	100	V	0	10.10	35.85	74.00	-	-
17 009.95	26.37	43.17	-	-	300	H	349	16.80	30.83	74.00	-	-

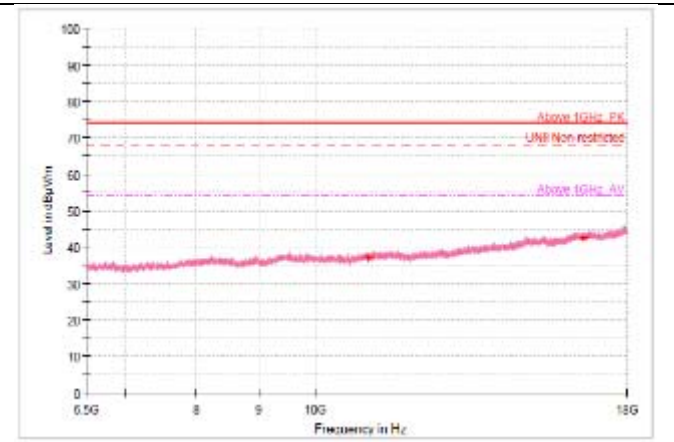
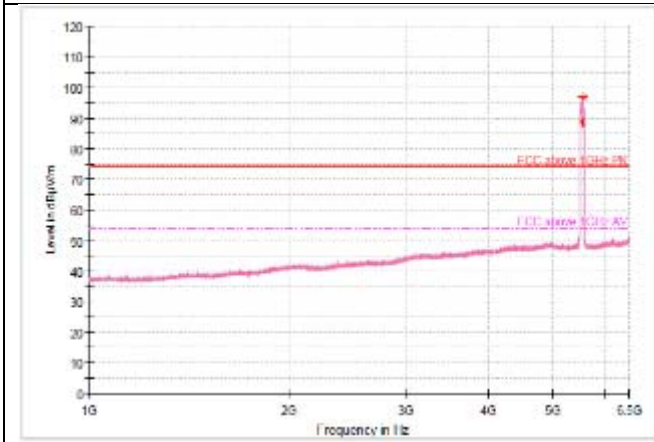
Remarks

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-2C_802.11ac(VHT80)_5530

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]
5 530.17	70.08	88.78	-	-	100	H	195	18.70	-	74.00	-	-
5 536.58	78.21	96.91	-	-	300	V	171	18.70	-	74.00	-	-
11 220.23	28.08	38.08	-	-	200	V	9	10.00	35.92	74.00	-	-
16 830.66	26.91	43.81	-	-	200	V	333	16.90	30.19	74.00	-	-

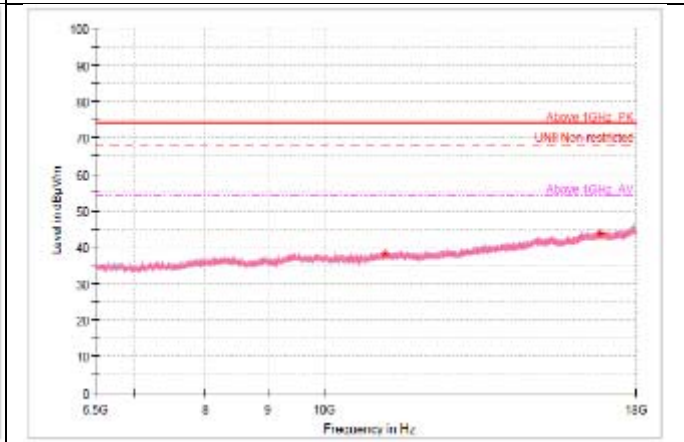
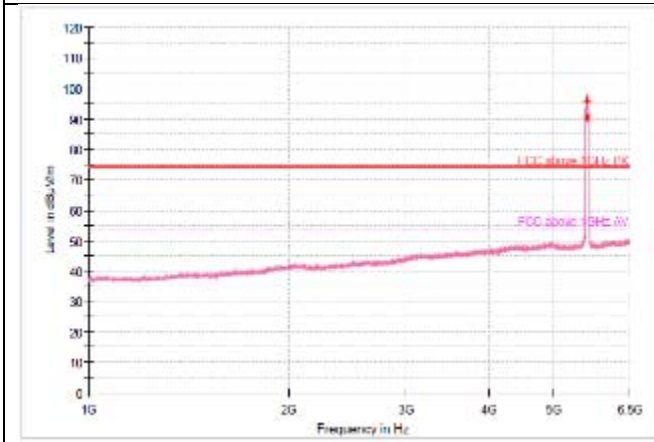
Remarks

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-2C_802.11ac(VHT80)_5610

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz

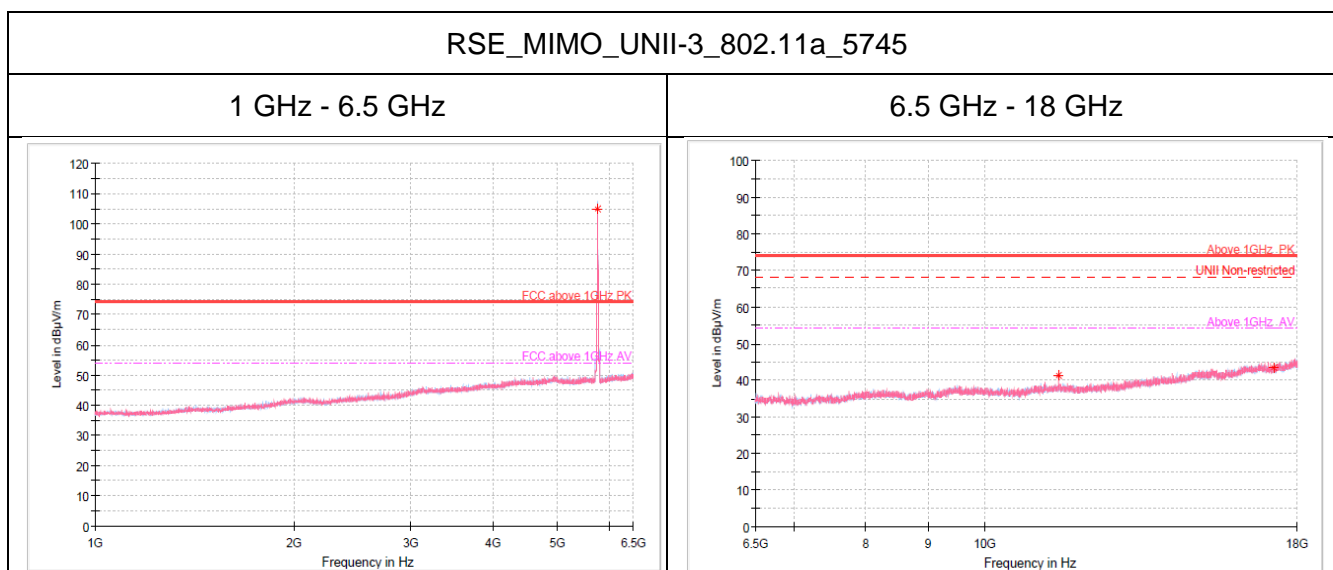


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 606.25	77.62	96.32	-	-	100	H	203	18.70	-	74.00	-	-
5 609.92	71.42	90.12	-	-	100	H	203	18.70	-	74.00	-	-
11 000.68	28.30	38.10	-	-	200	V	0	9.80	35.90	74.00	-	-
16 737.61	27.40	44.10	-	-	300	H	200	16.70	29.90	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)

3.5.5.3.4 UNII-3 (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]
5 745.13	86.31	104.91	-	-	100	H	194	18.60	-	74.00	-	-
11 493.09	30.77	41.17	-	-	200	V	5	10.40	32.83	74.00	-	-
17 235.25	26.96	43.36	-	-	300	V	279	16.40	30.64	74.00	-	-

Remarks

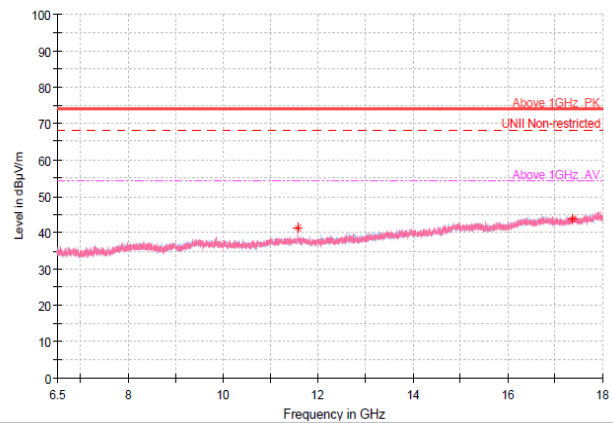
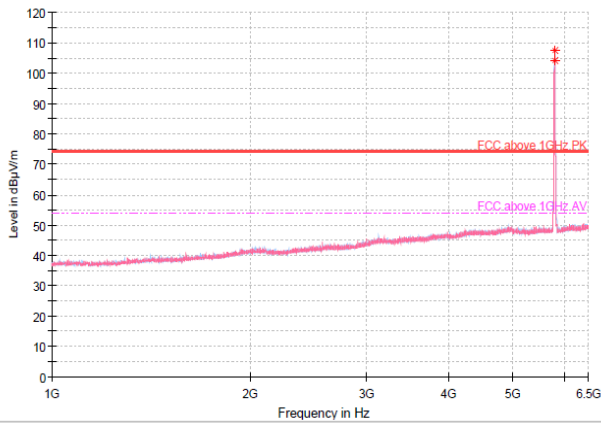
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-3_802.11a_5805

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]
5 781.79	89.02	107.62	-	-	100	H	199	18.60	-	74.00	-	-
5 785.00	85.63	104.23	-	-	100	H	195	18.60	-	74.00	-	-
11 568.36	30.71	41.21	-	-	400	V	1	10.50	32.79	74.00	-	-
17 354.95	27.13	43.73	-	-	400	H	197	16.60	30.27	74.00	-	-

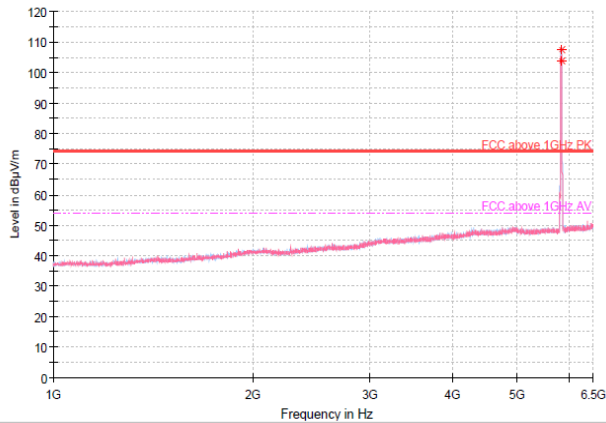
Remarks

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)

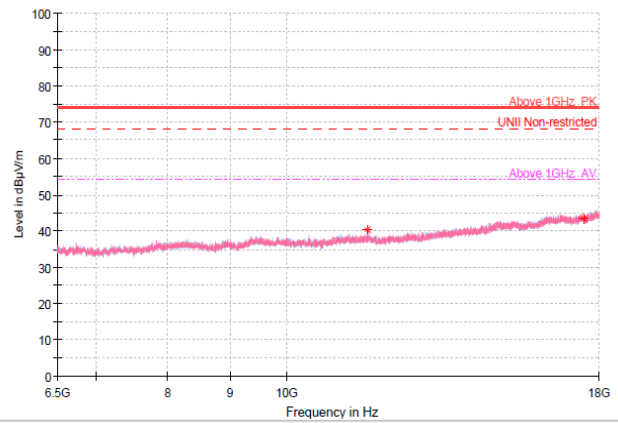


RSE_MIMO_UNII-3_802.11a_5825

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]
5 825.33	85.41	104.01	-	-	100	H	280	18.60	-	74.00	-	-
5 826.71	89.03	107.63	-	-	100	H	200	18.60	-	74.00	-	-
11 647.30	30.05	40.45	-	-	100	V	357	10.40	33.55	74.00	-	-
17 475.18	26.71	43.41	-	-	300	V	36	16.70	30.59	74.00	-	-

Remarks

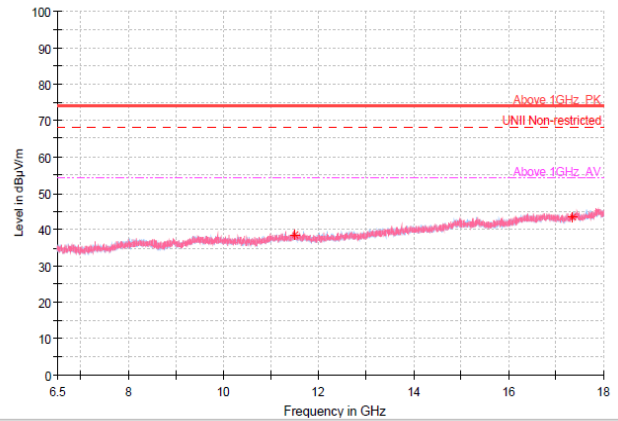
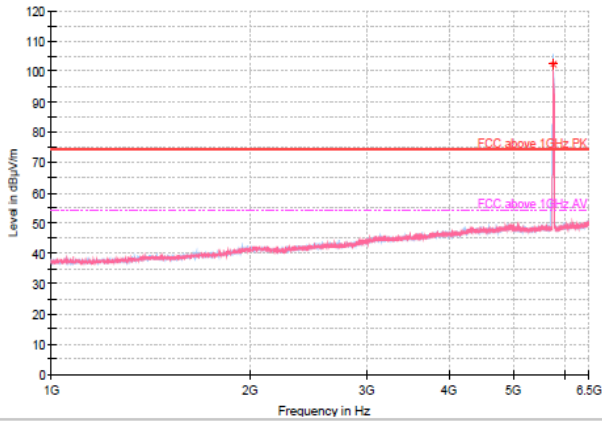
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-3_802.11n(HT20)_5745

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]
5 745.13	83.90	102.50	-	-	100	H	197	18.60	-	74.00	-	-
11 489.95	28.14	38.54	-	-	300	V	0	10.40	35.46	74.00	-	-
17 350.25	26.74	43.34	-	-	200	V	170	16.60	30.66	74.00	-	-

Remarks

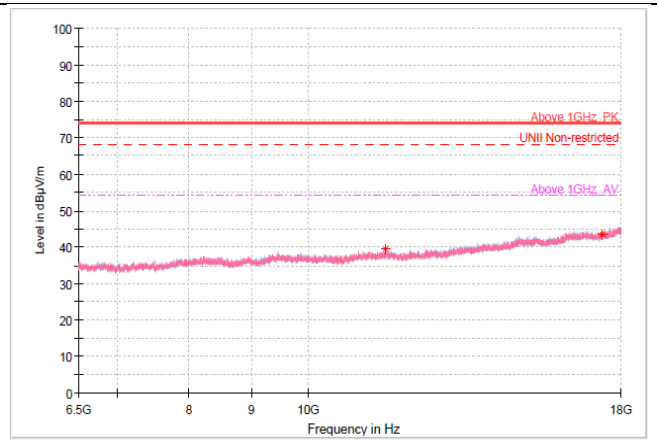
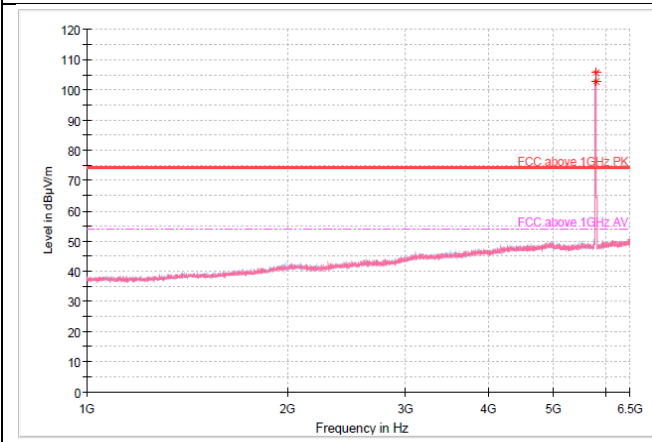
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-3_802.11n(HT20)_5805

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]
5 785.00	84.32	102.92	-	-	100	H	289	18.60	-	74.00	-	-
5 788.21	86.97	105.57	-	-	100	H	197	18.60	-	74.00	-	-
11 568.89	29.03	39.53	-	-	100	V	355	10.50	34.47	74.00	-	-
17 354.95	26.86	43.46	-	-	100	H	275	16.60	30.54	74.00	-	-

Remarks

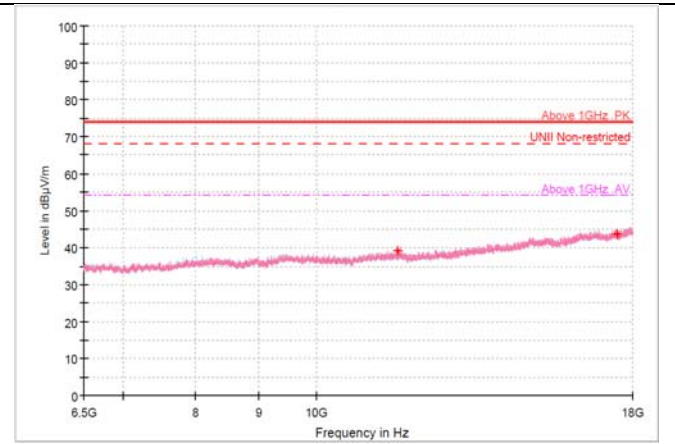
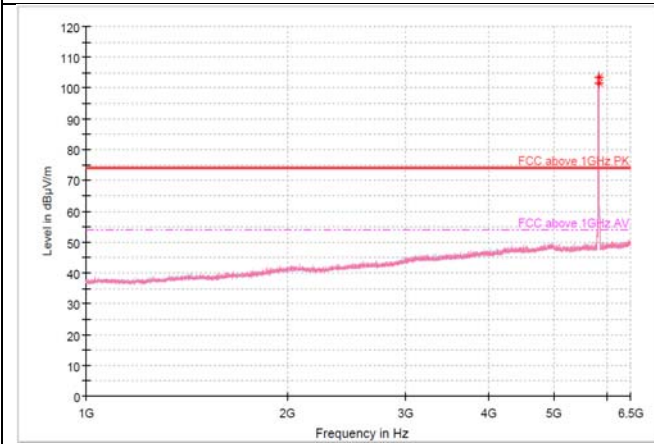
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-3_802.11n(HT20)_5825

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]
5 824.88	82.93	101.53	-	-	300	V	181	18.60	-	74.00	-	-
5 825.33	84.91	103.51	-	-	100	H	198	18.60	-	74.00	-	-
11 650.43	28.72	39.12	-	-	400	V	189	10.40	34.88	74.00	-	-
17 475.18	26.99	43.69	-	-	100	H	46	16.70	30.31	74.00	-	-

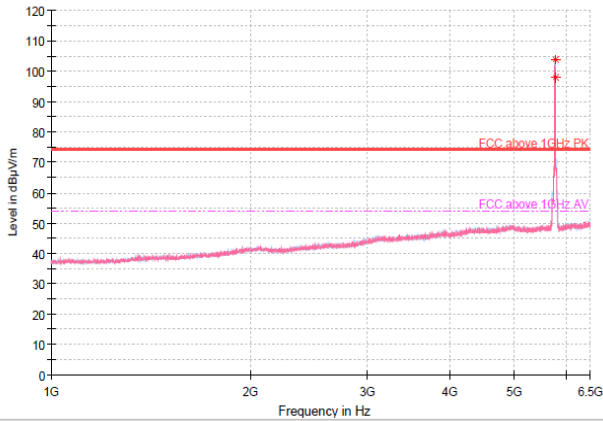
Remarks

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)

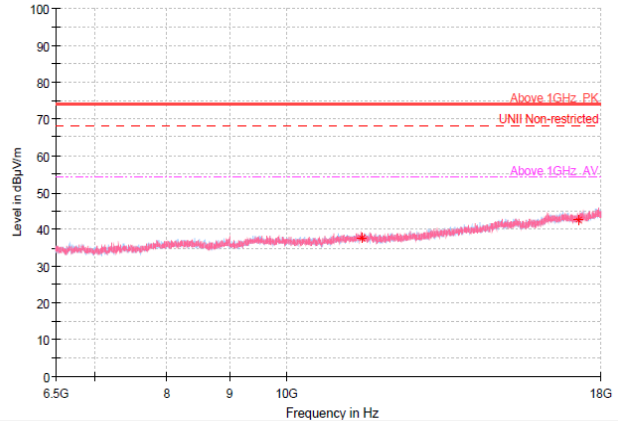


RSE_MIMO_UNII-3_802.11n(HT40)_5755

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]
5 755.21	79.29	97.89	-	-	100	H	198	18.60	-	74.00	-	-
5 757.50	85.34	103.94	-	-	100	H	198	18.60	-	74.00	-	-
11 510.34	27.27	37.67	-	-	300	V	0	10.40	36.33	74.00	-	-
17 265.05	26.34	42.64	-	-	400	H	336	16.30	31.36	74.00	-	-

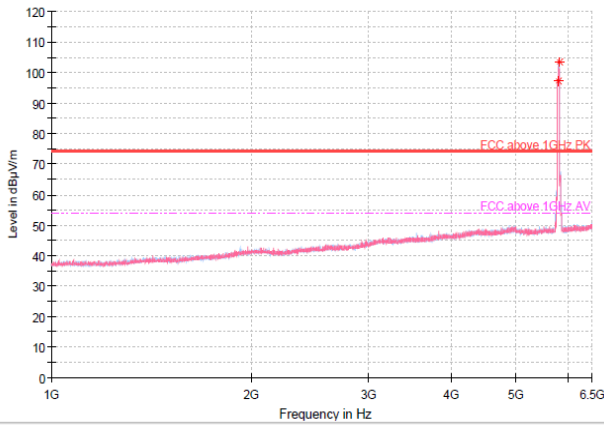
Remarks

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)

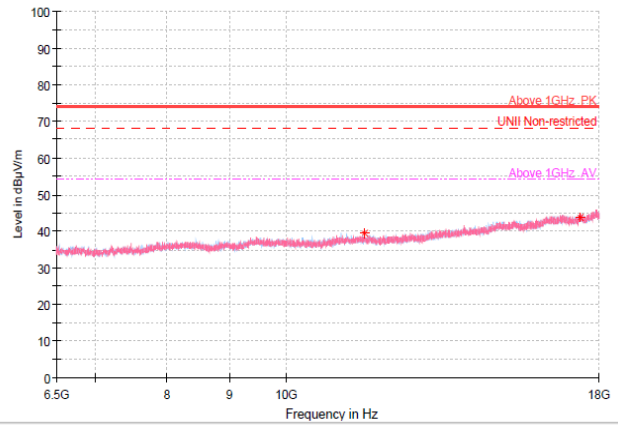


RSE_MIMO_UNII-3_802.11n(HT40)_5795

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]
5 795.08	78.76	97.36	-	-	100	H	291	18.60	-	74.00	-	-
5 807.46	84.81	103.41	-	-	100	H	197	18.60	-	74.00	-	-
11 588.75	29.00	39.50	-	-	400	V	0	10.50	34.50	74.00	-	-
17 385.27	27.16	43.86	-	-	400	V	48	16.70	30.14	74.00	-	-

Remarks

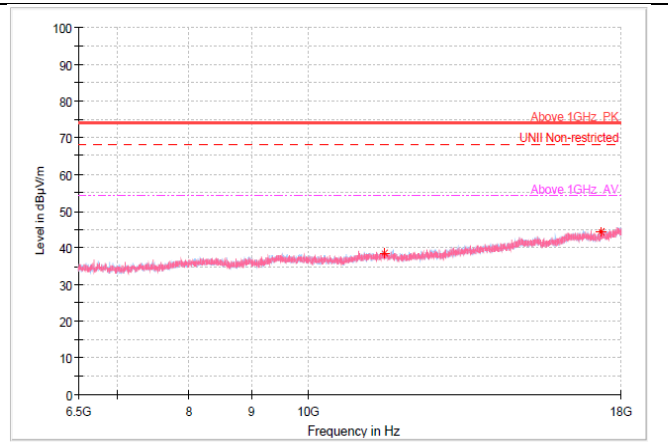
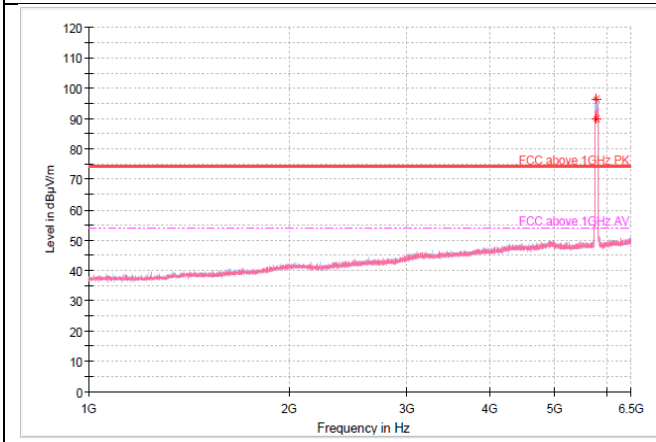
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier 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-3_802.11ac(VHT80)_5775

1 GHz - 6.5 GHz

6.5 GHz - 18 GHz



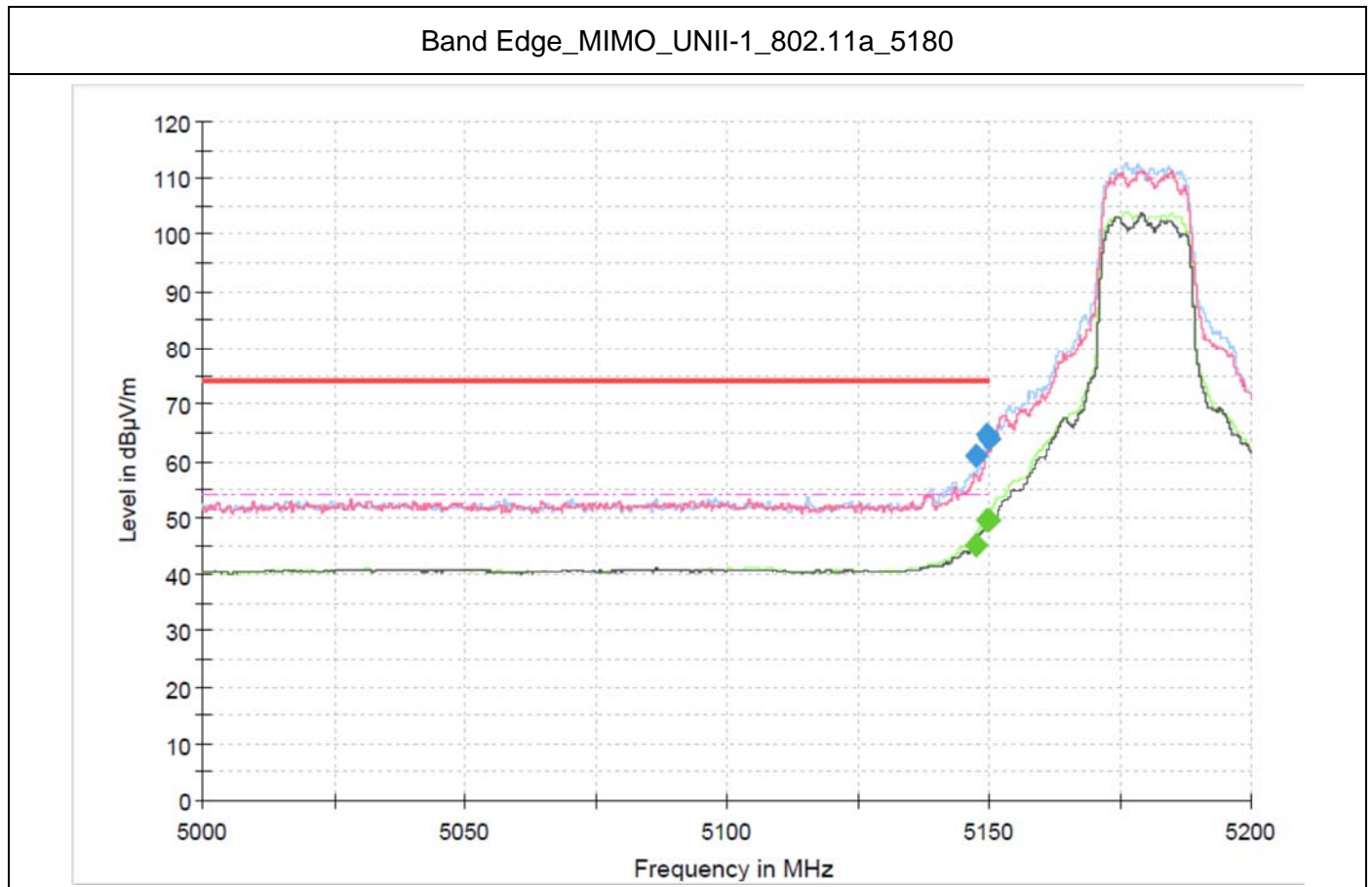
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 761.63	77.84	96.44	-	-	100	H	199	18.60	-	74.00	-	-
5 774.92	71.35	89.95	-	-	100	H	304	18.60	-	74.00	-	-
11 551.11	28.08	38.58	-	-	300	H	112	10.50	35.42	74.00	-	-
17 325.16	27.90	44.40	-	-	200	V	8	16.50	29.60	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)

3.5.5.4 Restricted Band Edge Measurements

3.5.5.4.1 UNII-1 (Restricted Band Edge)

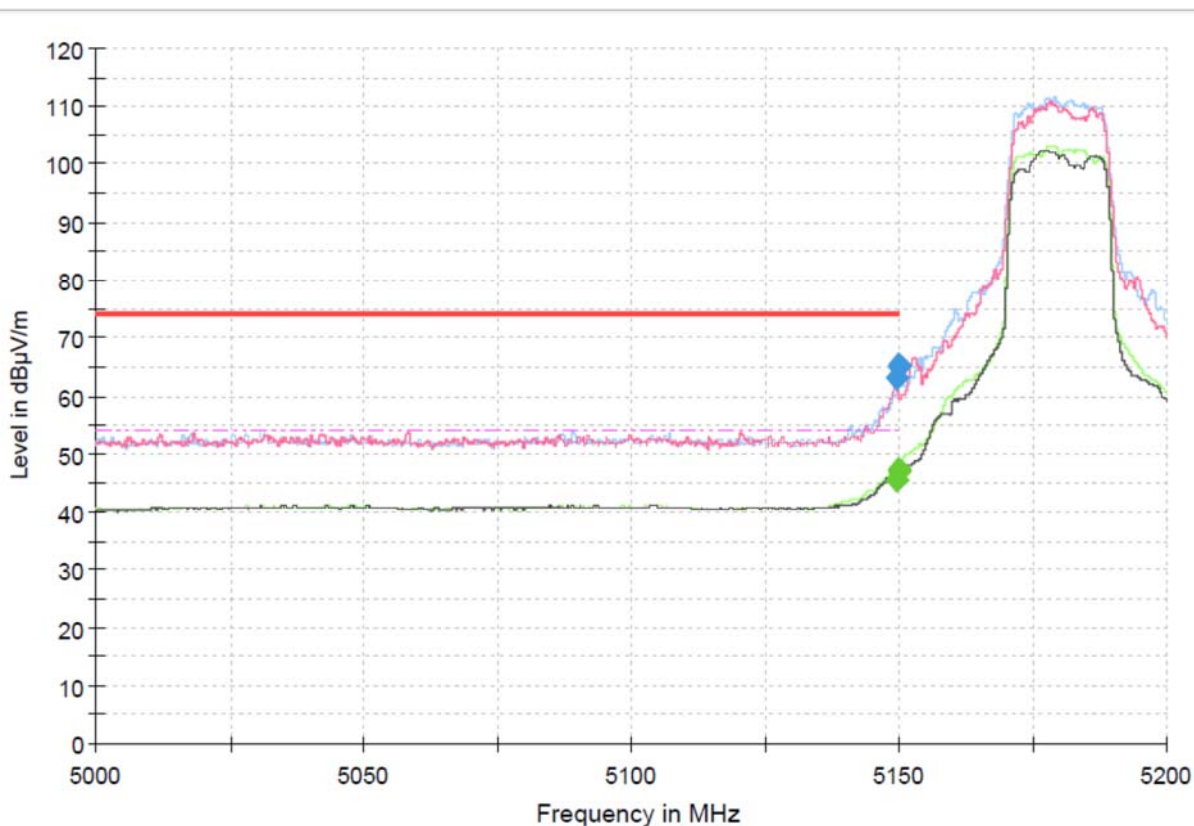


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 147.53	-	-	34.49	45.29	252	V	171	10.80	-	74.00	8.71	54.00
5 147.53	50.16	60.96	-	-	252	V	171	10.80	13.04	74.00	-	54.00
5 149.51	53.77	64.57	-	-	112	H	193	10.80	9.43	74.00	-	54.00
5 149.51	-	-	38.57	49.37	112	H	193	10.80	-	74.00	4.63	54.00
5 150.00	53.14	63.94	-	-	115	H	190	10.80	10.06	74.00	-	54.00
5 150.00	-	-	38.92	49.72	115	H	190	10.80	-	74.00	4.28	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-1_802.11n(HT20)_5180

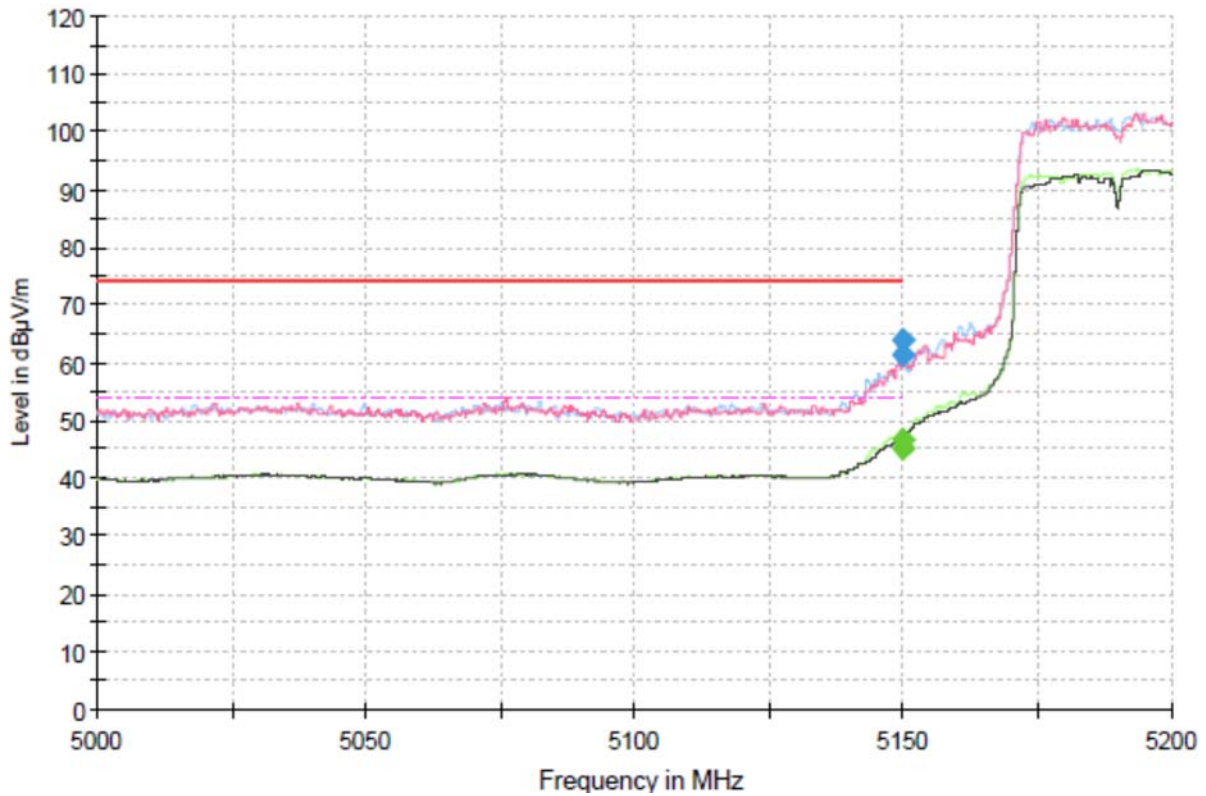


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 149.49	52.21	63.01	-	-	222	V	153	10.80	10.99	74.00	-	54.00
5 149.49	-	-	34.76	45.56	222	V	153	10.80	-	74.00	8.44	54.00
5 149.96	-	-	36.37	47.17	117	H	187	10.80	-	74.00	6.83	54.00
5 149.96	54.17	64.97	-	-	117	H	187	10.80	9.03	74.00	-	54.00
5 150.00	-	-	36.32	47.12	112	H	187	10.80	-	74.00	6.88	54.00
5 150.00	54.34	65.14	-	-	112	H	187	10.80	8.86	74.00	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-1_802.11ac(VHT40)_5190



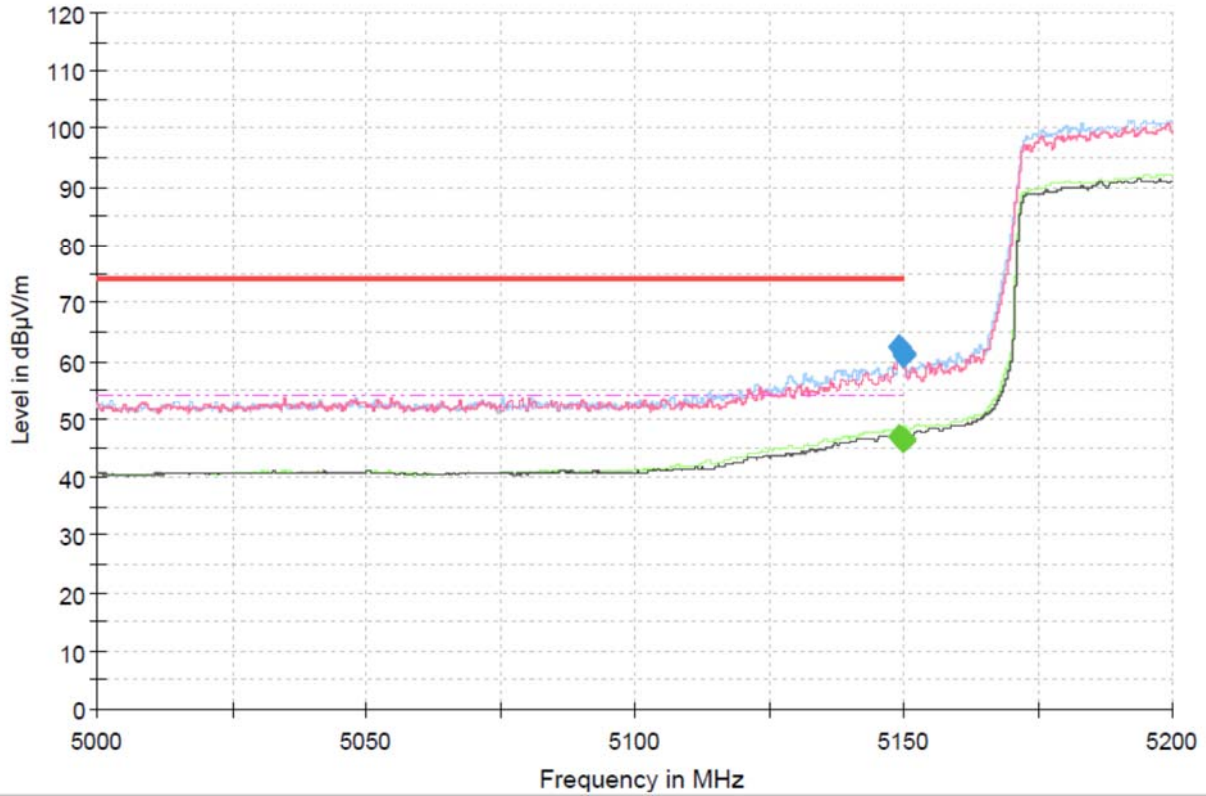
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 149.96	-	-	34.16	44.96	114	H	186	10.80	-	74.00	9.04	54.00
5 149.96	50.43	61.23	-	-	114	H	186	10.80	12.77	74.00	-	54.00
5 150.00	-	-	35.81	46.61	237	V	164	10.80	-	74.00	7.39	54.00
5 150.00	53.00	63.80	-	-	237	V	164	10.80	10.20	74.00	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Band Edge_MIMO_UNII-1_802.11ac(VHT80)_5210

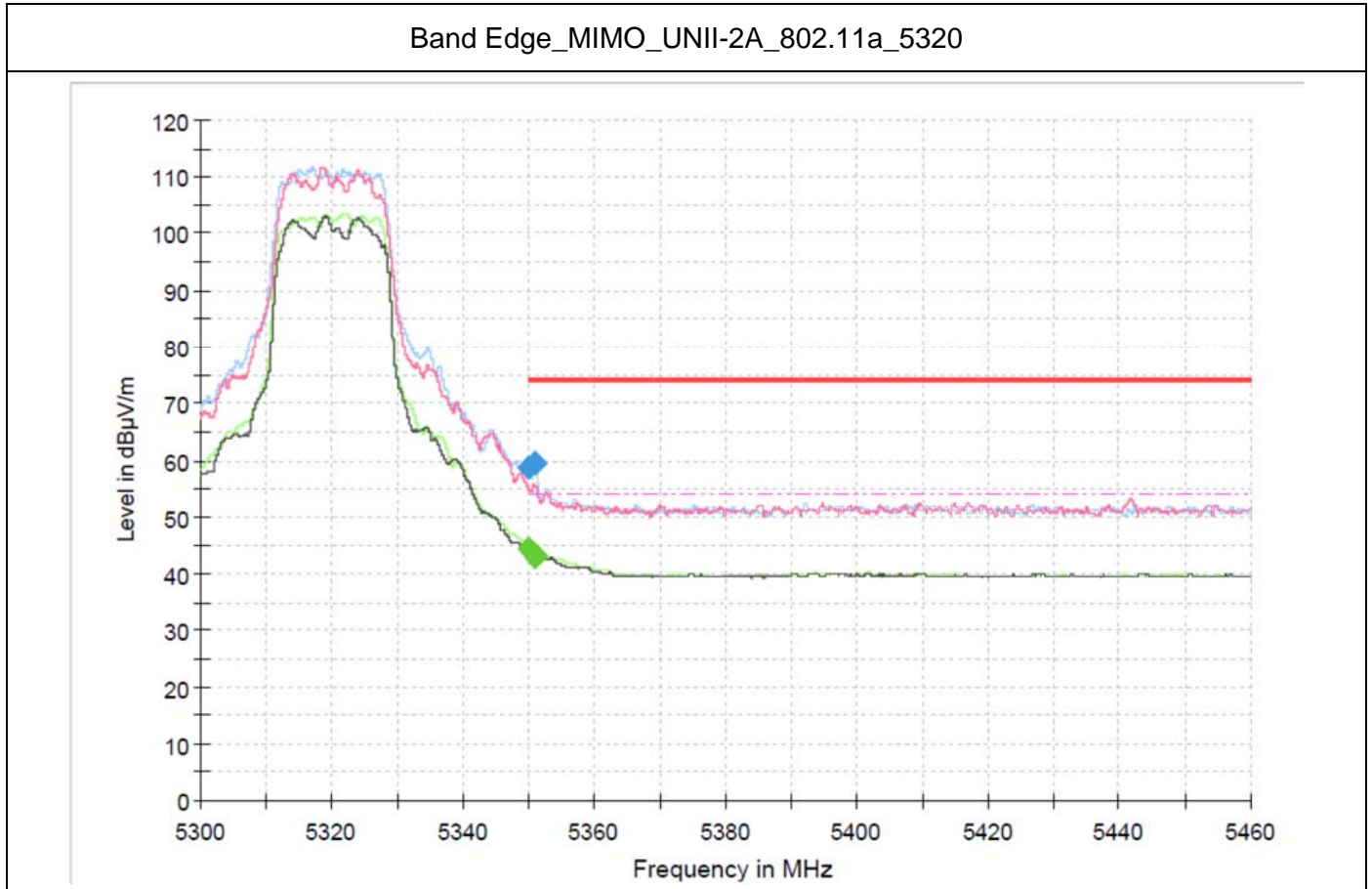


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 149.33	51.59	62.39	-	-	230	V	155	10.80	11.61	74.00	-	54.00
5 149.33	-	-	36.22	47.02	230	V	155	10.80	-	74.00	6.98	54.00
5 149.96	-	-	35.92	46.72	138	H	195	10.80	-	74.00	7.28	54.00
5 149.96	50.48	61.28	-	-	138	H	195	10.80	12.72	74.00	-	54.00
5 150.00	-	-	35.37	46.17	129	H	177	10.80	-	74.00	7.83	54.00
5 150.00	50.19	60.99	-	-	129	H	177	10.80	13.01	74.00	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

3.5.5.4.2 UNII-2A (Restricted Band Edge)

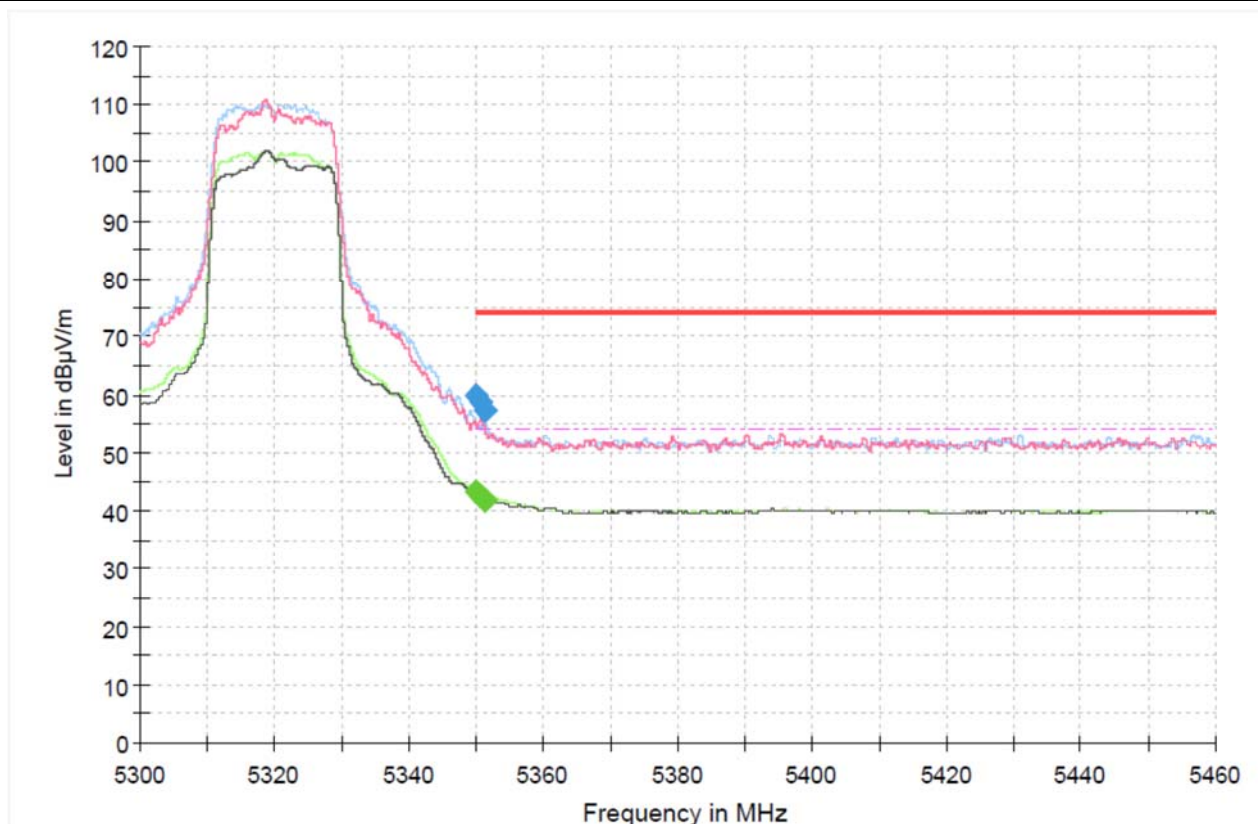


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 350.00	-	-	33.52	44.22	103	H	195	10.70	-	74.00	9.78	54.00
5 350.00	48.11	58.81	-	-	103	H	195	10.70	15.19	74.00	-	54.00
5 350.87	48.84	59.54	-	-	250	V	167	10.70	14.46	74.00	-	54.00
5 350.87	-	-	32.76	43.46	250	V	167	10.70	-	74.00	10.54	54.00
5 351.01	48.64	59.34	-	-	114	H	190	10.70	14.66	74.00	-	54.00
5 351.01	-	-	32.32	43.02	114	H	190	10.70	-	74.00	10.98	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2A_802.11n(HT20)_5320

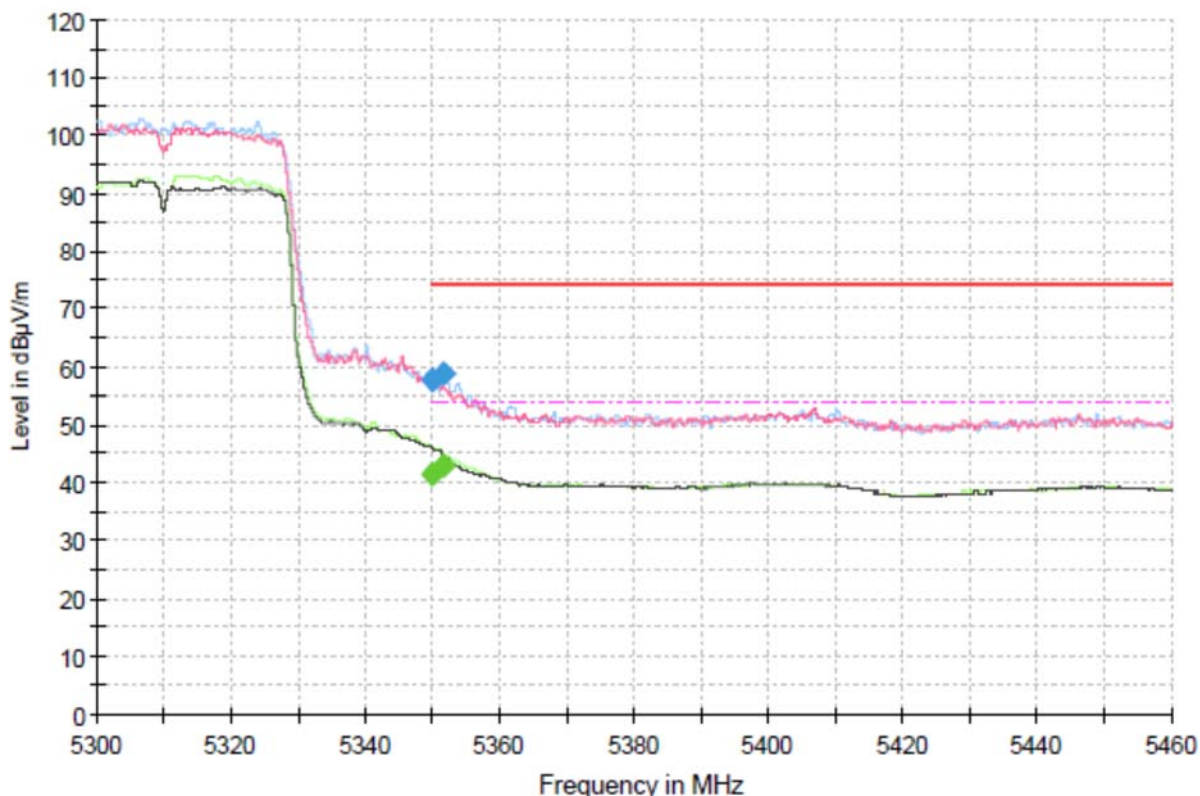


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 350.00	-	-	32.42	43.12	231	V	162	10.70	-	74.00	10.88	54.00
5 350.00	48.99	59.69	-	-	231	V	162	10.70	14.31	74.00	-	54.00
5 350.68	-	-	31.90	42.60	250	V	161	10.70	-	74.00	11.40	54.00
5 350.68	48.01	58.71	-	-	250	V	161	10.70	15.29	74.00	-	54.00
5 351.24	46.41	57.11	-	-	103	H	202	10.70	16.89	74.00	-	54.00
5 351.24	-	-	30.96	41.66	103	H	202	10.70	-	74.00	12.34	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2A_802.11ac(VHT40)_5310

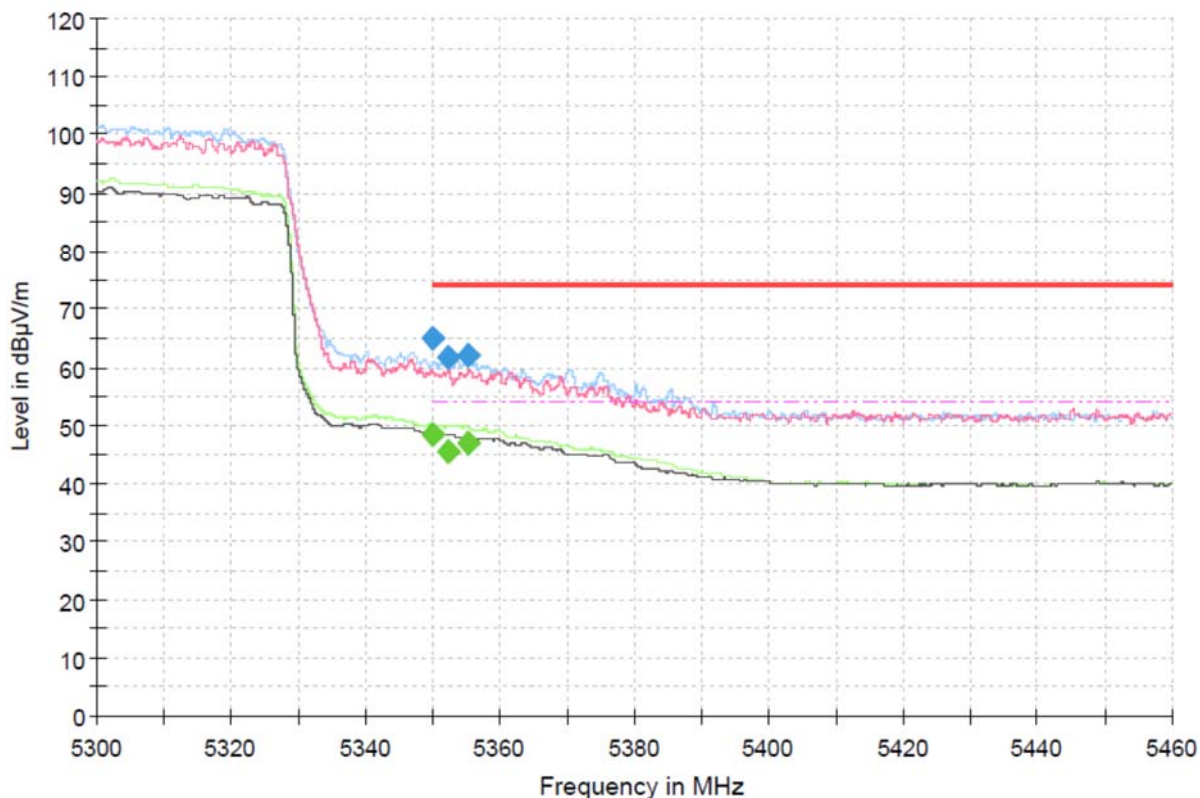


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 350.00	46.74	57.44	-	-	168	H	177	10.70	16.56	74.00	-	54.00
5 350.00	-	-	30.80	41.50	168	H	177	10.70	-	74.00	12.50	54.00
5 351.71	48.01	58.71	-	-	104	H	193	10.70	15.29	74.00	-	54.00
5 351.71	-	-	32.05	42.75	104	H	193	10.70	-	74.00	11.25	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2A_802.11ac(VHT80)_5290



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]
5 350.00	-	-	33.52	44.22	103	H	195	10.70	-	74.00	9.78	54.00
5 350.00	48.11	58.81	-	-	103	H	195	10.70	15.19	74.00	-	54.00
5 350.87	48.84	59.54	-	-	250	V	167	10.70	14.46	74.00	-	54.00
5 350.87	---	---	32.76	43.46	250	V	167	10.70	-	74.00	10.54	54.00
5 351.01	48.64	59.34	-	-	114	H	190	10.70	14.66	74.00	-	54.00
5 351.01	-	-	32.32	43.02	114	H	190	10.70	-	74.00	10.98	54.00

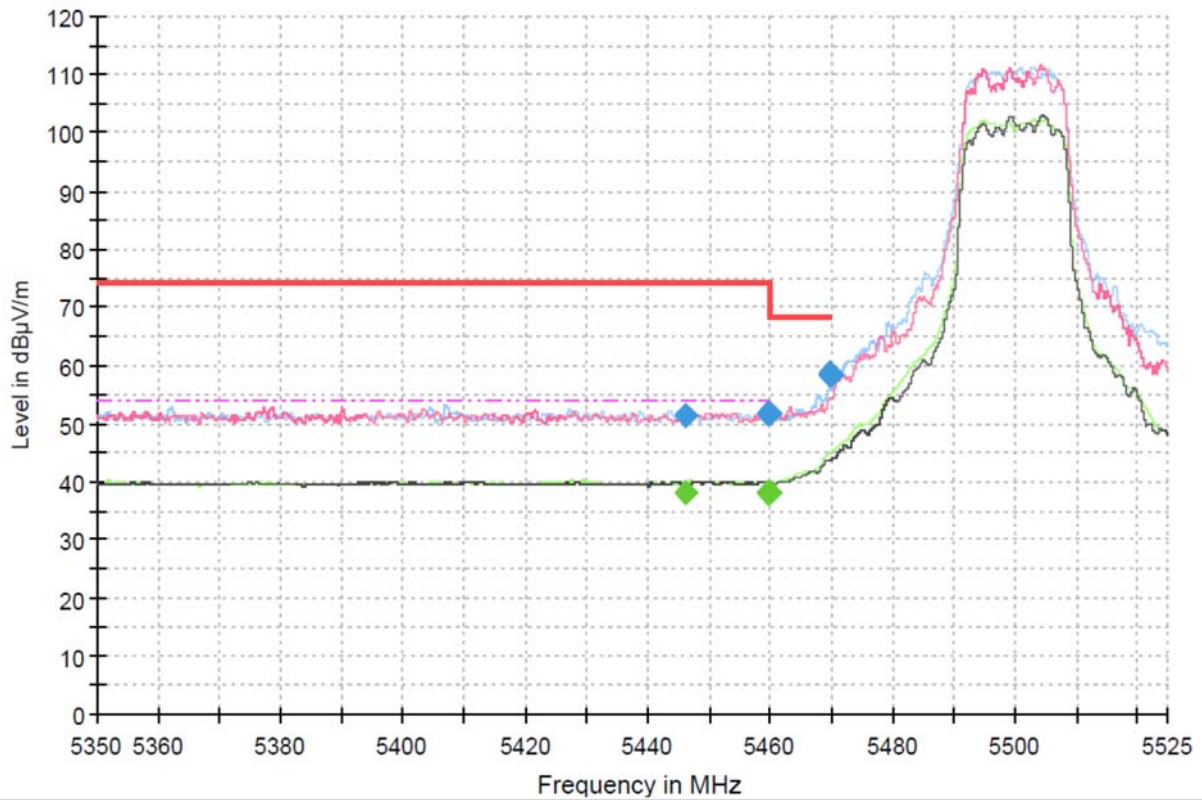
Remarks

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



3.5.5.4.3 UNII-2C (Restricted Band Edge)

Band Edge_MIMO_UNII-2C_802.11a_5500

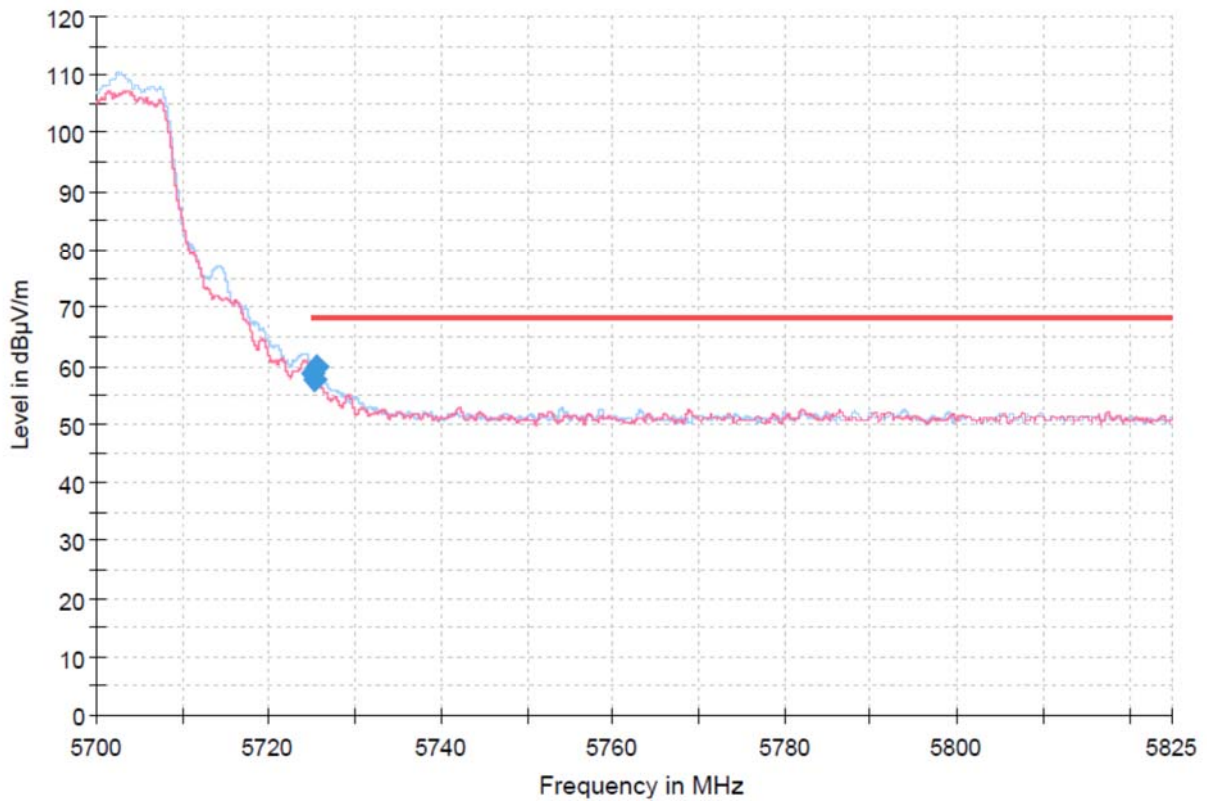


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 446.23	-	-	27.10	38.00	150	V	136	10.90	-	74.00	16.00	54.00
5 446.23	40.44	51.34	-	-	150	V	136	10.90	22.66	74.00	-	54.00
5 459.60	-	-	27.09	38.09	330	H	263	11.00	-	74.00	15.91	54.00
5 459.60	40.82	51.82	-	-	330	H	263	11.00	22.18	74.00	-	54.00
5 460.00	40.74	51.74	-	-	252	H	216	11.00	22.26	74.00	-	54.00
5 460.00	-	-	27.23	38.23	252	H	216	11.00	-	74.00	15.77	54.00
5 469.71	47.42	58.42	-	-	124	H	190	11.00	9.78	68.20	-	54.00
5 469.83	47.66	58.66	-	-	250	V	165	11.00	9.54	68.20	-	54.00
5 470.00	47.28	58.28	-	-	115	H	197	11.00	9.92	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11a_5700

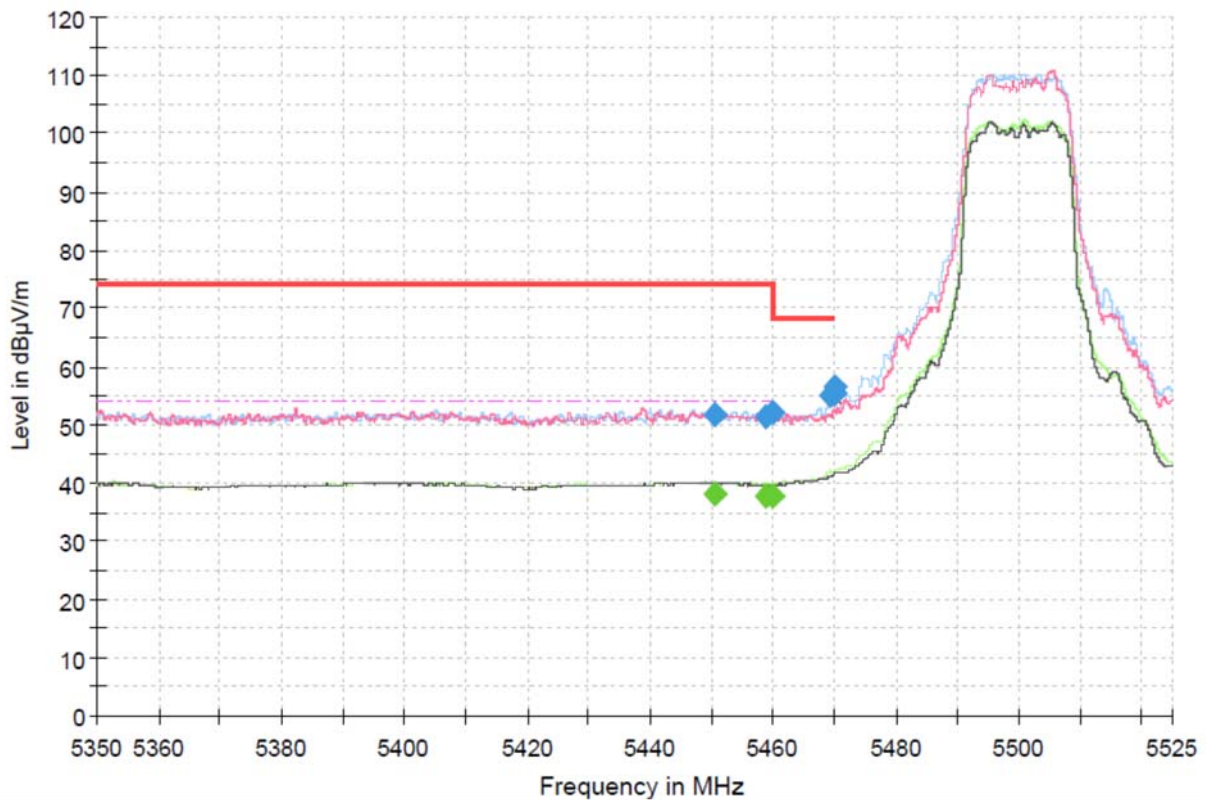


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 725.00	47.22	58.62	-	-	112	H	91	11.40	9.58	68.20	-	54.00
5 725.28	46.14	57.54	-	-	276	V	272	11.40	10.66	68.20	-	54.00
5 725.56	48.26	59.66	-	-	114	H	158	11.40	8.54	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11n(HT20)_5500

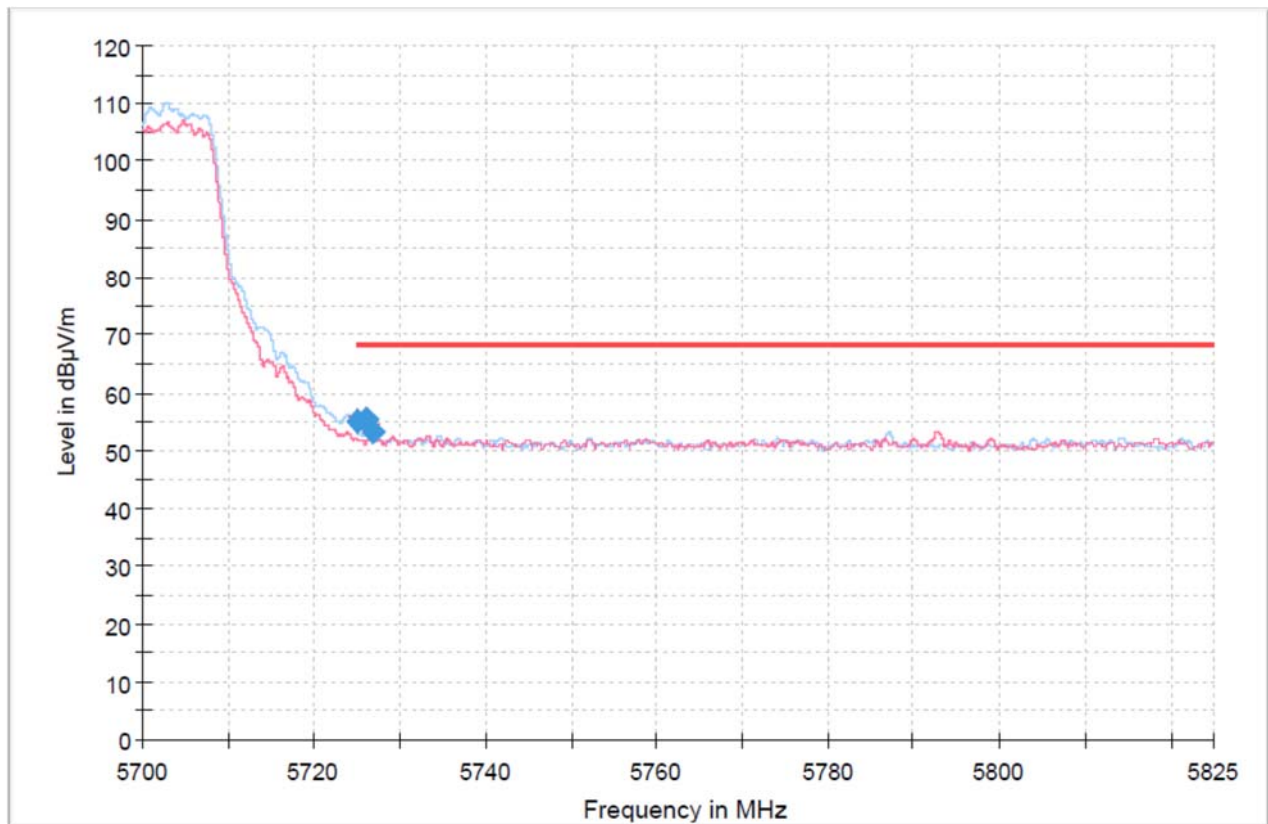


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 450.67	41.01	51.91	-	-	112	H	-15	10.90	22.09	74.00	-	54.00
5 450.67	-	-	27.29	38.19	112	H	-15	10.90	-	74.00	15.81	54.00
5 458.97	40.36	51.36	-	-	255	V	45	11.00	22.64	74.00	-	54.00
5 458.97	-	-	26.89	37.89	255	V	45	11.00	-	74.00	16.11	54.00
5 460.00	41.05	52.05	-	-	282	H	22	11.00	21.95	74.00	-	54.00
5 460.00	-	-	26.96	37.96	282	H	22	11.00	-	74.00	16.04	54.00
5 469.46	44.13	55.13	-	-	100	H	190	11.00	13.07	68.20	-	54.00
5 469.92	45.6	56.60	-	-	250	V	166	11.00	11.60	68.20	-	54.00
5 470.00	44.46	55.46	-	-	104	H	190	11.00	12.74	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11n(HT20)_5700

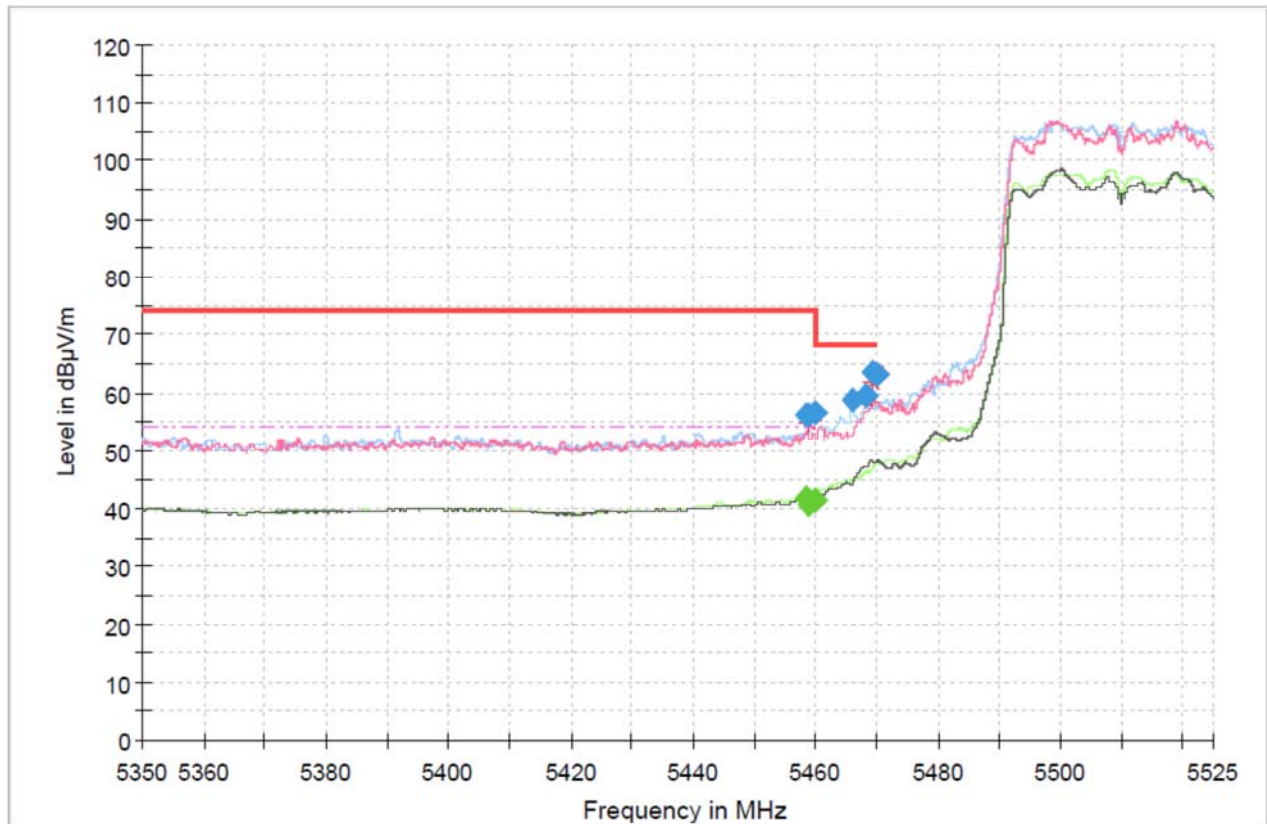


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 725.00	43.64	55.04	-	-	100	H	158	11.40	13.16	68.20	-	54.00
5 726.14	43.87	55.27	-	-	112	H	162	11.40	12.93	68.20	-	54.00
5 726.77	41.78	53.18	-	-	280	V	272	11.40	15.02	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11n(HT40)_5510

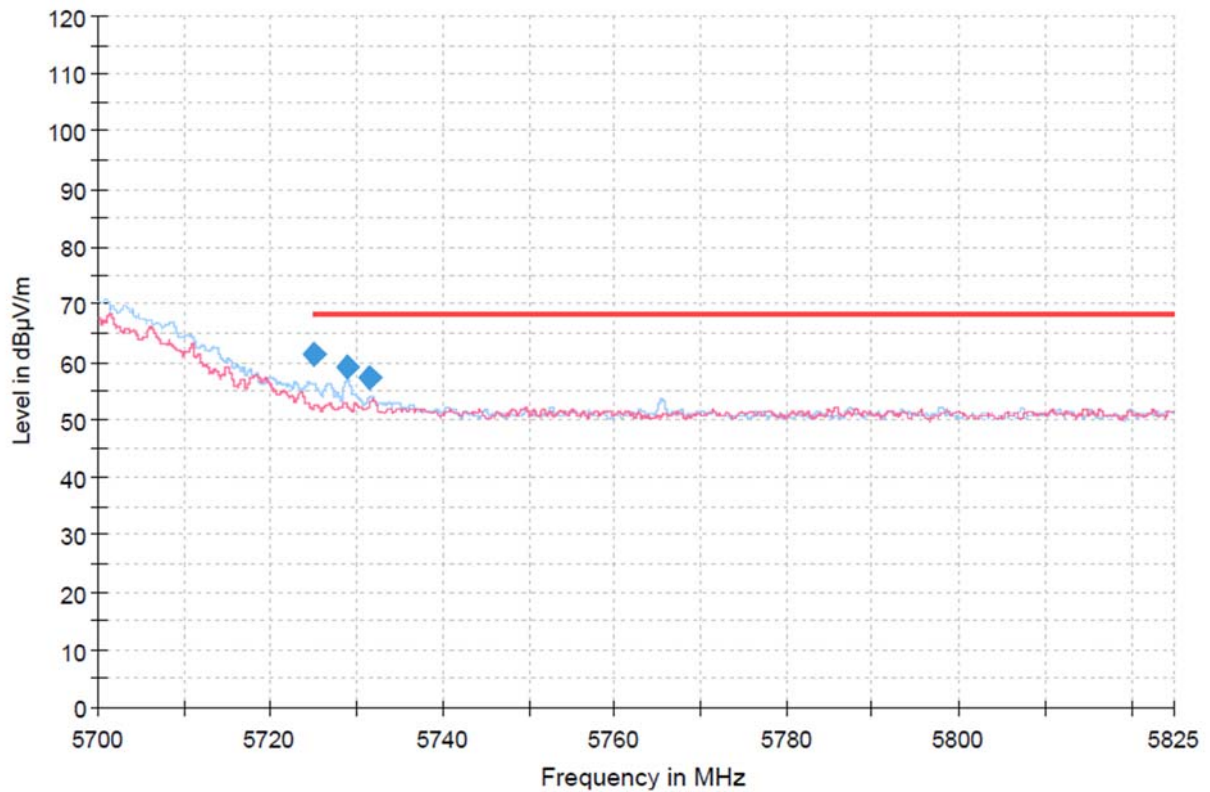


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 458.51	45.22	56.22	-	-	243	V	164	11.00	17.78	74.00	-	54.00
5 458.51	-	-	30.92	41.92	243	V	164	11.00	-	74.00	12.08	54.00
5 458.98	45.19	56.19	-	-	114	H	198	11.00	17.81	74.00	-	54.00
5 458.98	-	-	29.88	40.88	114	H	198	11.00	-	74.00	13.12	54.00
5 460.00	45.4	56.40	-	-	100	H	188	11.00	17.60	74.00	-	54.00
5 460.00	-	-	30.65	41.65	100	H	188	11.00	-	74.00	12.35	54.00
5 466.13	47.73	58.73	-	-	108	H	198	11.00	9.47	68.20	-	54.00
5 468.28	48.56	59.56	-	-	100	H	184	11.00	8.64	68.20	-	54.00
5 469.49	52.42	63.42	-	-	237	V	161	11.00	4.78	68.20	-	54.00
5 470.00	52.28	63.28	-	-	238	V	162	11.00	4.92	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11n(HT40)_5670

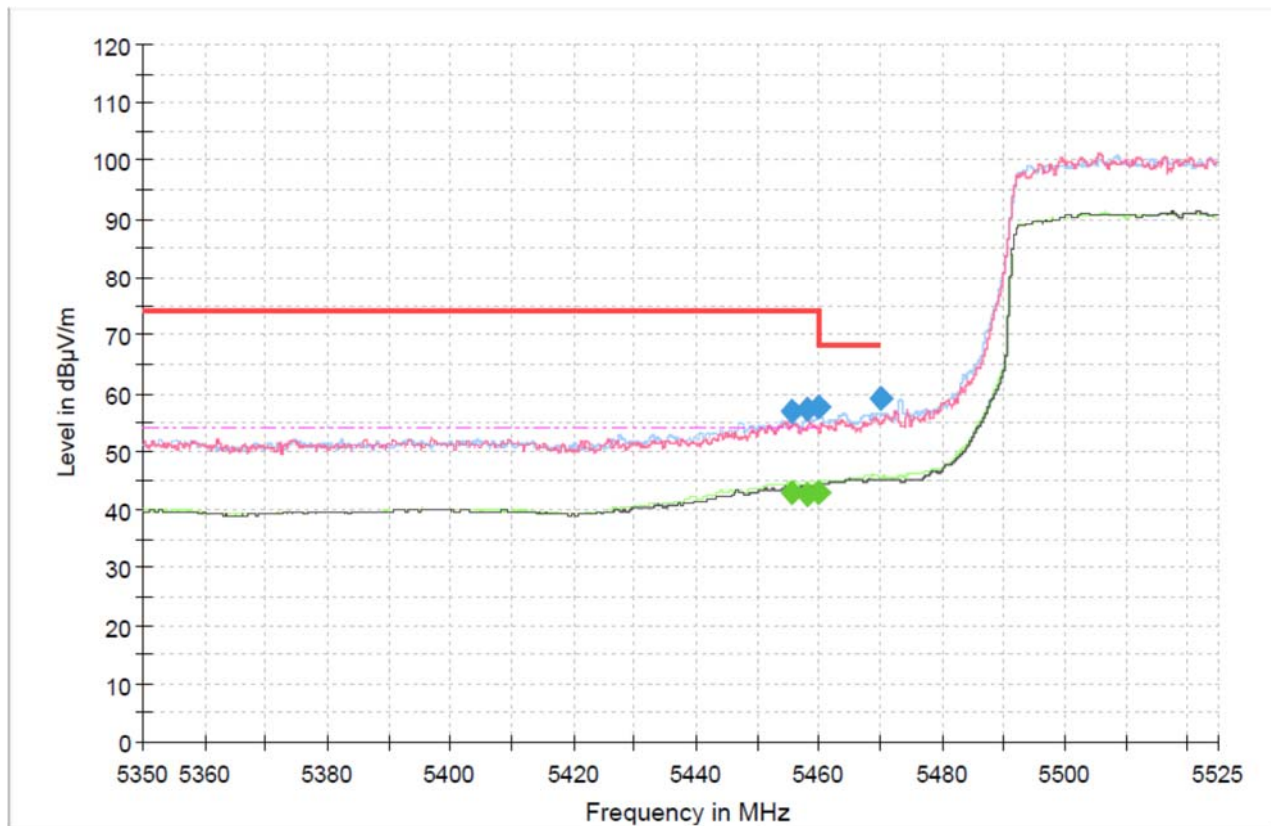


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 725.00	50.03	61.43	-	-	115	H	180	11.40	6.77	68.20	-	54.00
5 729.02	47.65	59.05	-	-	103	H	183	11.40	9.15	68.20	-	54.00
5 731.59	45.77	57.17	-	-	221	V	165	11.40	11.03	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-2C_802.11ac(VHT80)_5530



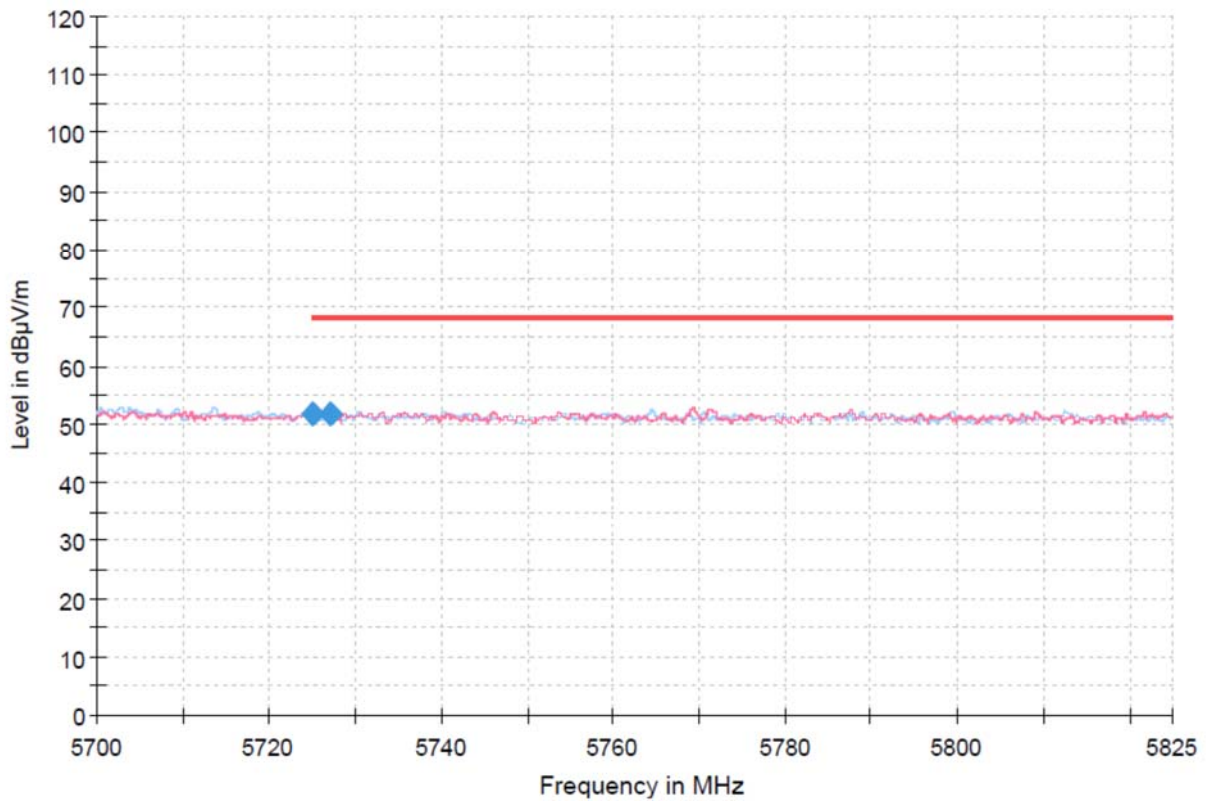
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 455.62	-	-	31.92	42.82	112	H	190	10.90	-	74.00	11.18	54.00
5 455.62	46.02	56.92	-	-	112	H	190	10.90	17.08	74.00	-	54.00
5 458.22	-	-	31.58	42.58	112	H	184	11.00	-	74.00	11.42	54.00
5 458.22	46.19	57.19	-	-	112	H	184	11.00	16.81	74.00	-	54.00
5 460.00	-	-	31.77	42.77	112	H	184	11.00	-	74.00	11.23	54.00
5 460.00	46.56	57.56	-	-	112	H	184	11.00	10.64	68.20	-	54.00
5 470.00	48.16	59.16	-	-	105	H	191	11.00	9.04	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Band Edge_MIMO_UNII-2C_802.11ac(VHT80)_5610



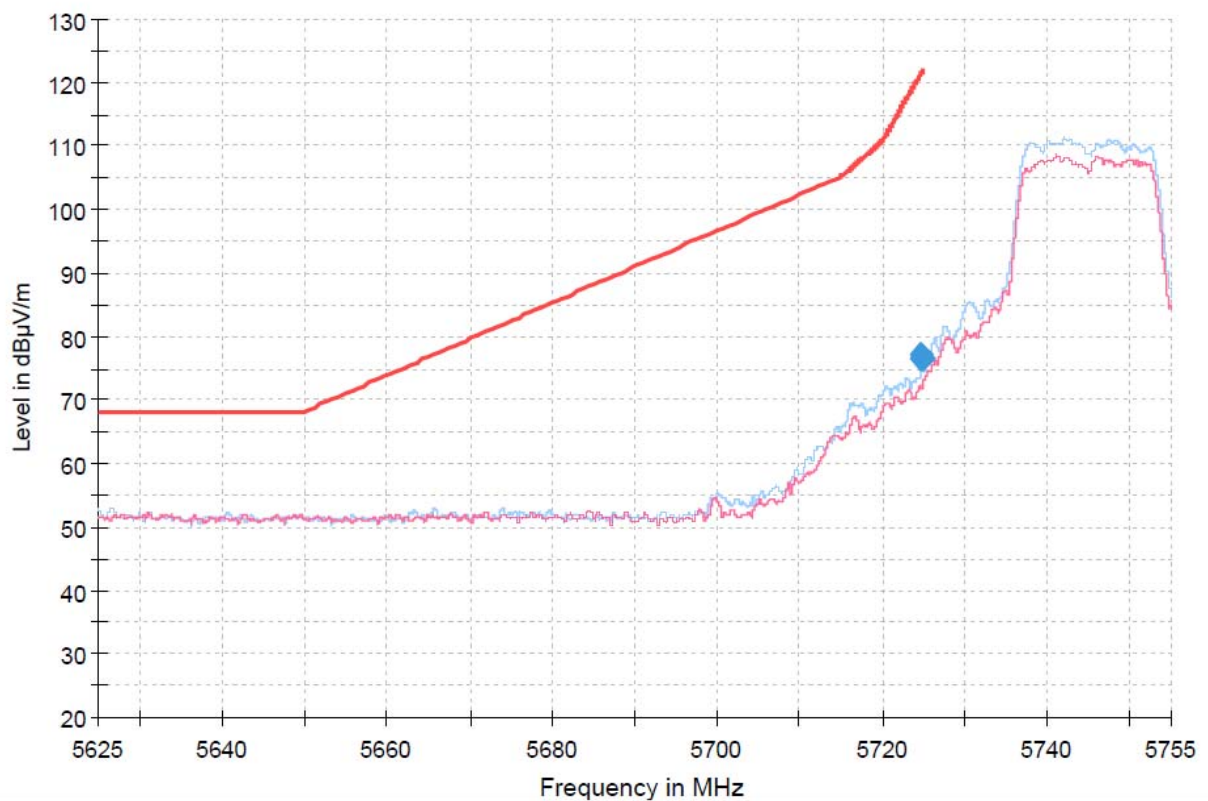
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 725.00	40.45	51.85	-	-	112	V	80	11.40	16.35	68.20	-	54.00
5 727.10	40.24	51.64	-	-	352	V	255	11.40	16.56	68.20	-	54.00

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

3.5.5.4.4 UNII-3 (Restricted Band Edge)

Band Edge_MIMO_UNII-3_802.11a_5745

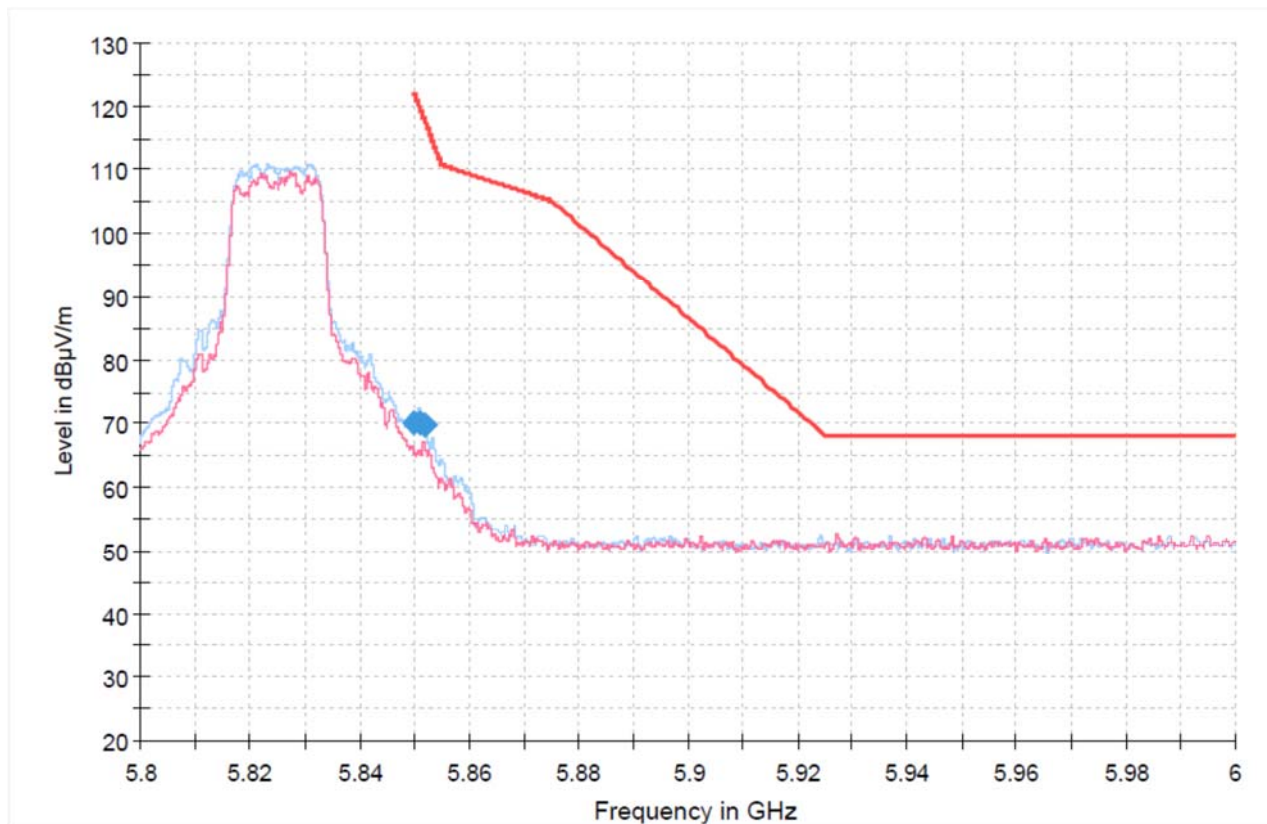


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 724.60	65.85	77.25	-	-	250.0	V	178	11.40	44.05	121.30	-	-
5 724.76	65.16	76.56	-	-	118.0	H	183	11.40	45.09	121.65	-	-
5 724.99	65.21	76.61	-	-	113.0	H	183	11.40	45.57	122.19	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11a_5825

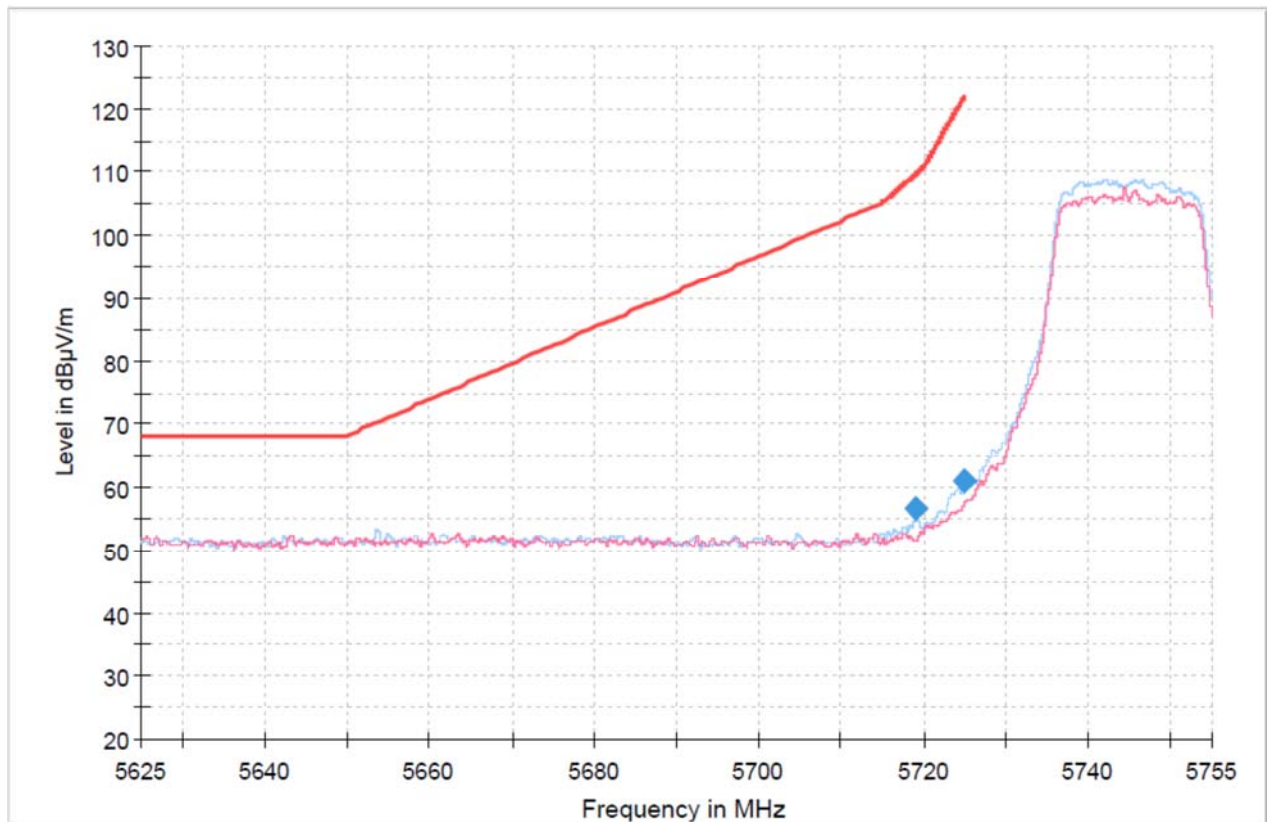


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 850.00	58.66	70.16	-	-	112.0	H	184	11.50	52.04	122.20	-	-
5 851.01	58.53	70.03	-	-	104.0	H	184	11.50	49.86	119.89	-	-
5 851.80	58.16	69.66	-	-	250.0	V	167	11.50	48.44	118.10	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11n(HT20)_5745



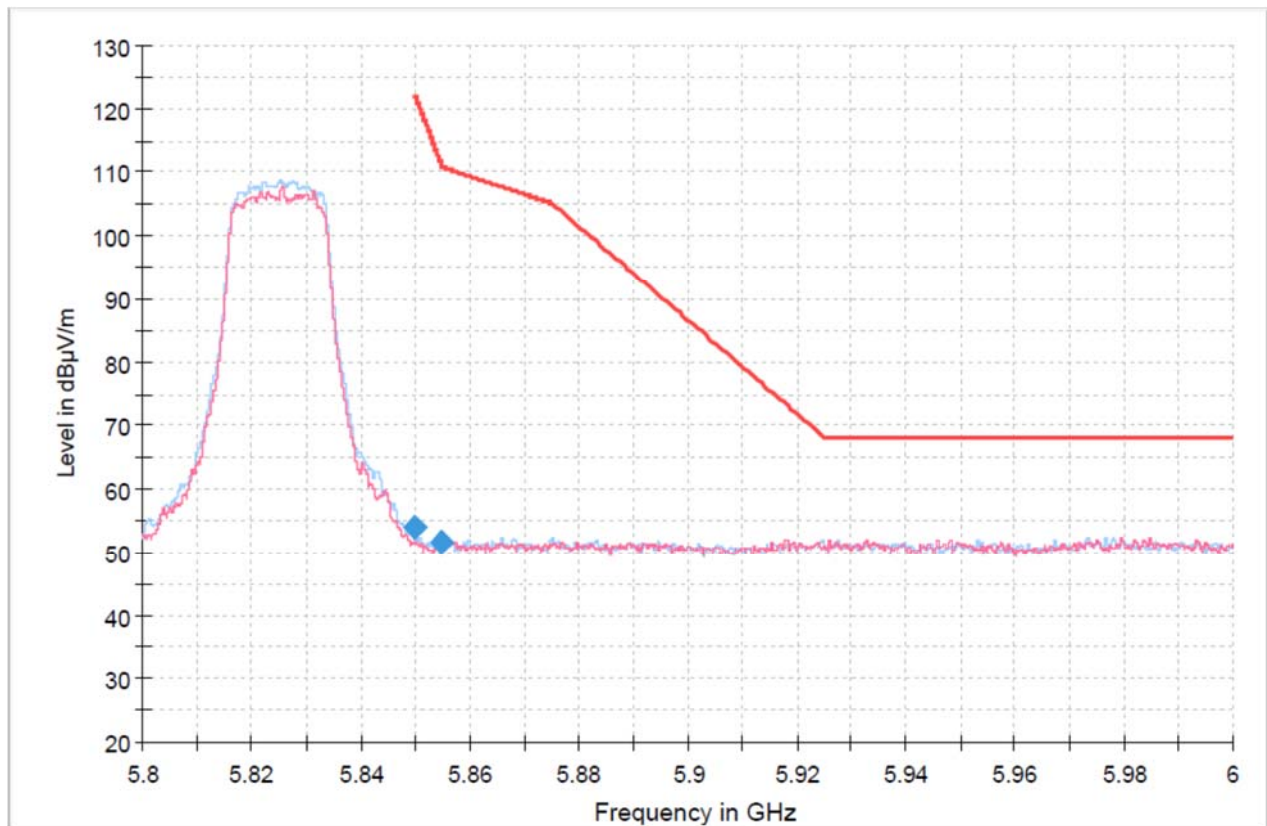
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 719.01	45.16	56.56	-	-	113.0	H	197	11.40	53.13	109.70	-	-
5 725.00	49.76	61.16	-	-	101.0	H	192	11.40	61.04	122.20	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)



Band Edge_MIMO_UNII-3_802.11n(HT20)_5825

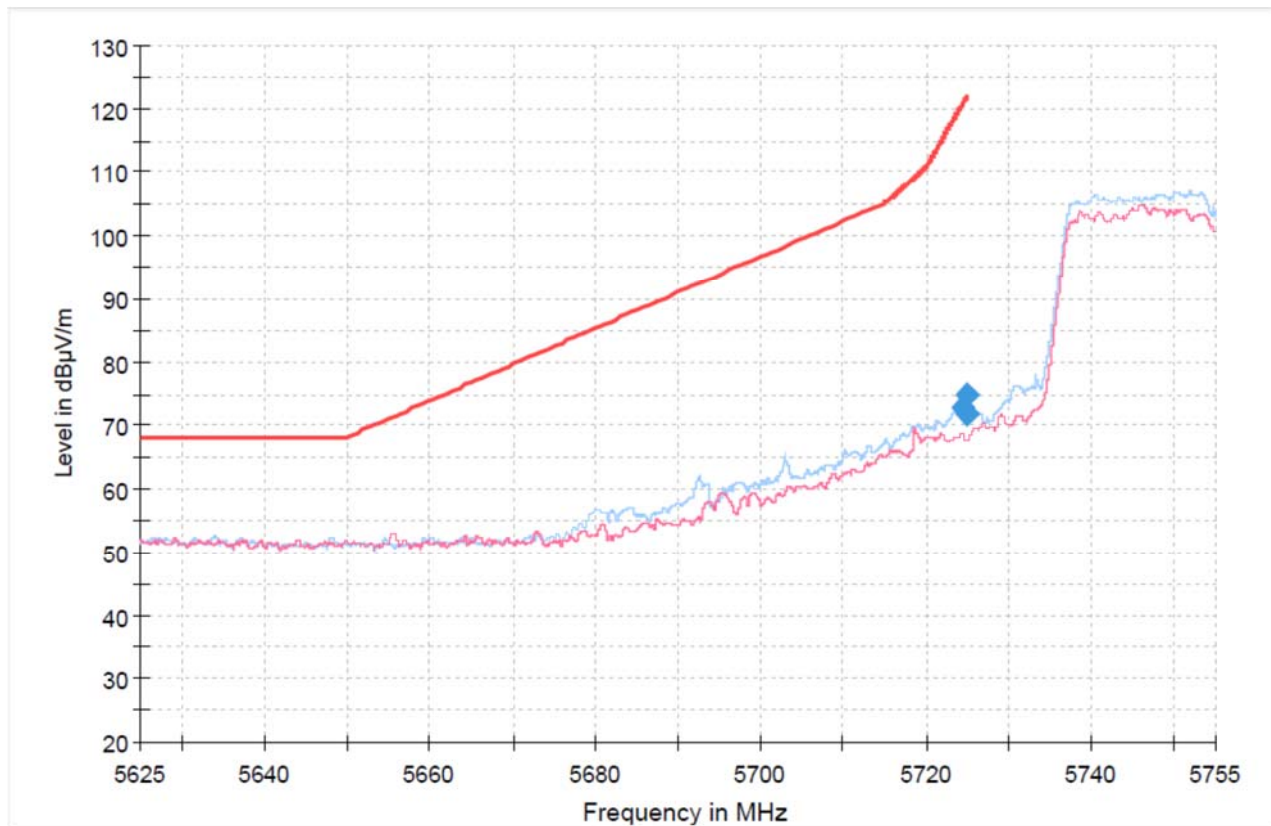


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 850.00	42.33	53.83	-	-	246.0	V	167	11.50	68.37	122.20	-	-
5 854.80	40.04	51.54	-	-	100.0	H	-5	11.50	59.71	111.26	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11n(HT40)_5755

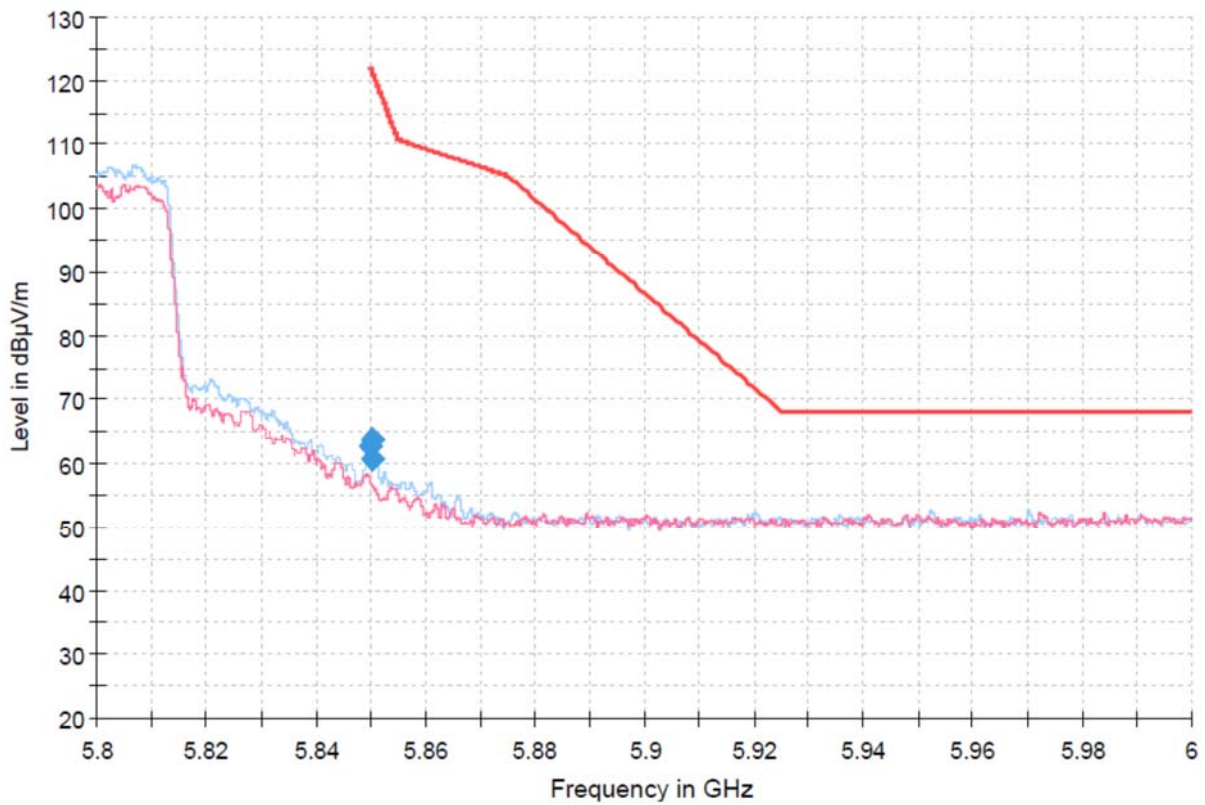


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 724.42	61.51	72.91	-	-	279.0	V	274	11.40	47.96	120.87	-	-
5 724.78	60.33	71.73	-	-	107.0	H	182	11.40	49.98	121.71	-	-
5 724.99	63.55	74.95	-	-	112.0	H	184	11.40	47.22	122.17	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11n(HT40)_5795

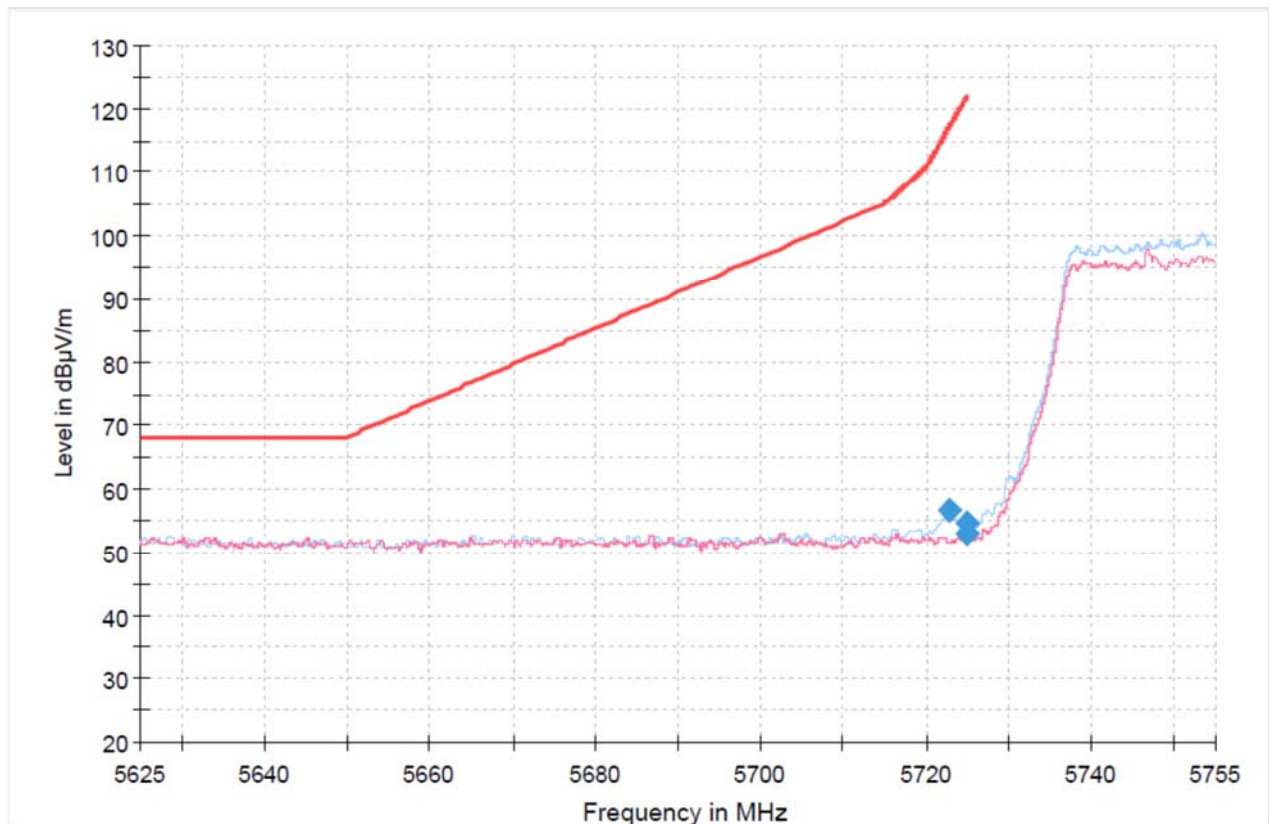


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 850.00	51.06	62.56	-	-	150.0	H	294	11.50	59.64	122.20	-	-
5 850.18	49.15	60.65	-	-	296.0	V	229	11.50	61.16	121.80	-	-
5 850.35	52.25	63.75	-	-	111.0	H	293	11.50	57.65	121.40	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11ac(VHT80)_5775

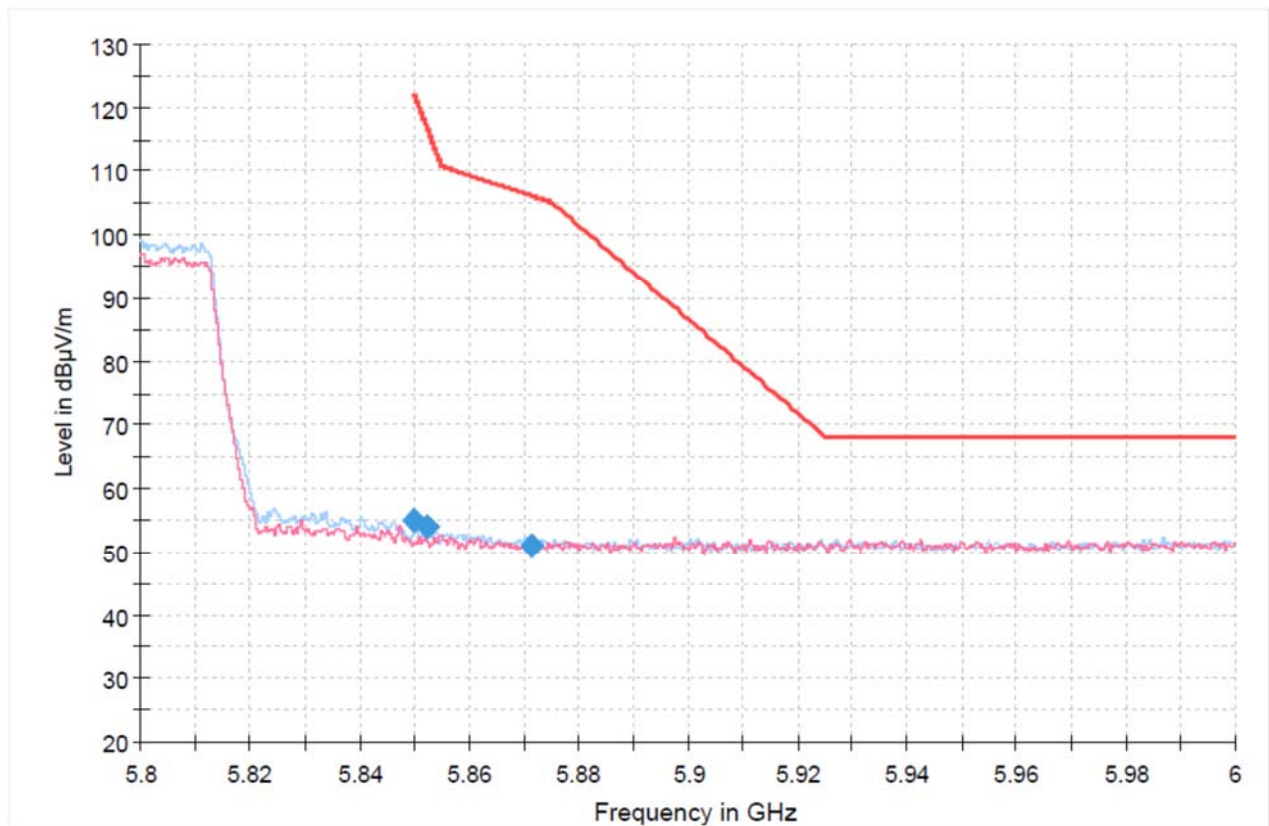


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 722.86	45.11	56.51	-	-	112.0	H	150	11.40	60.81	117.32	-	-
5 724.98	41.41	52.81	-	-	240.0	V	147	11.40	69.34	122.15	-	-
5 724.99	43.17	54.57	-	-	101.0	H	142	11.40	67.62	122.19	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

Band Edge_MIMO_UNII-3_802.11ac(VHT80)_5775

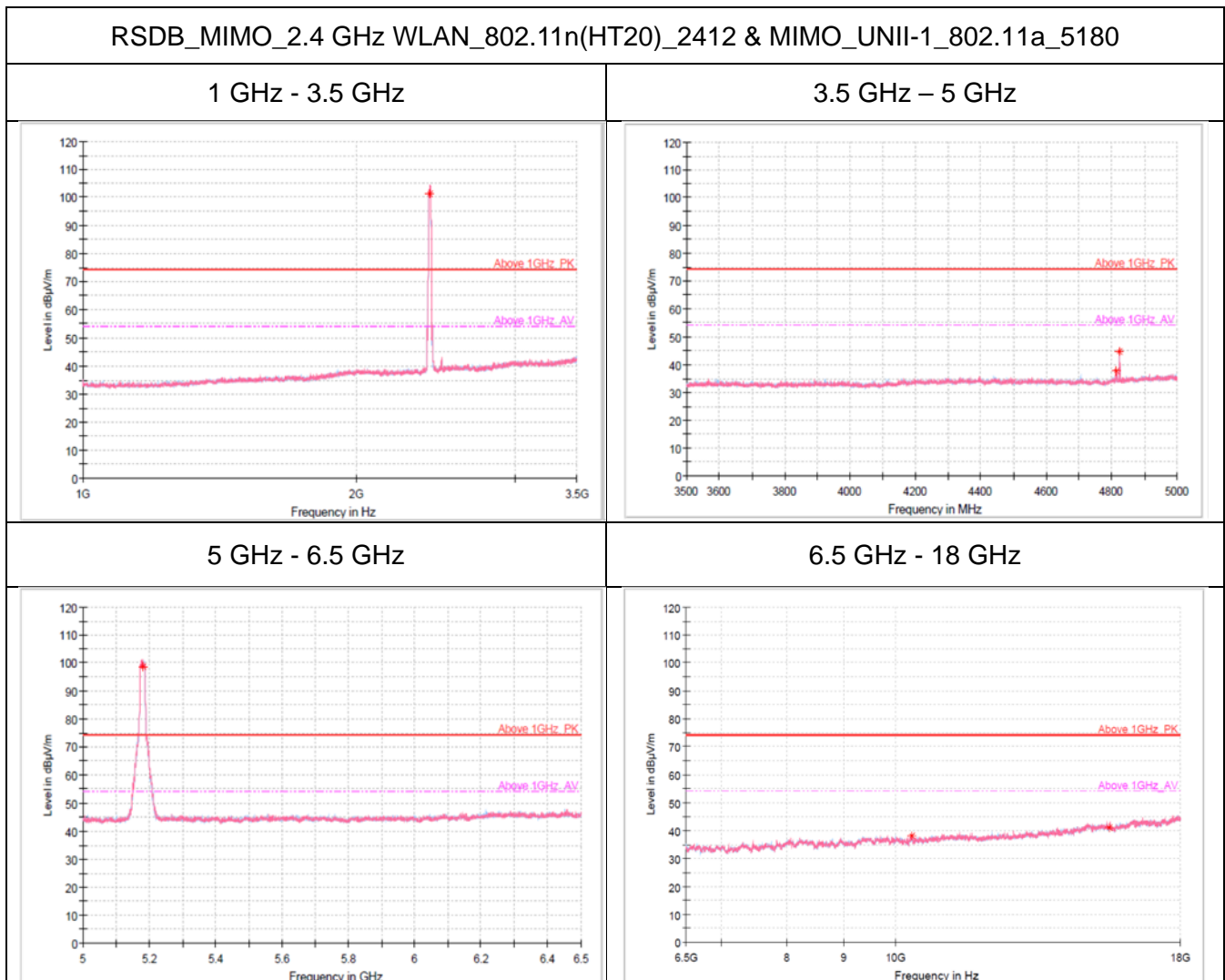


Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
5 850.00	43.57	55.07	-	-	102.0	H	179	11.50	67.14	122.20	-	-
5 852.16	42.57	54.07	-	-	113.0	H	175	11.50	63.20	117.27	-	-
5 871.58	39.33	50.83	-	-	112.0	V	-18	11.50	55.33	106.16	-	-

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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

3.5.5.5 RSDB



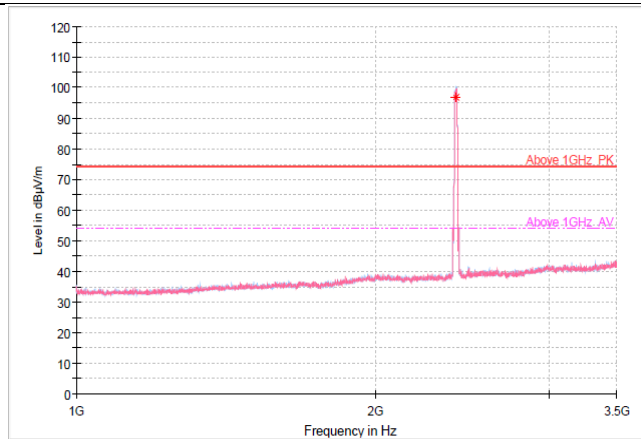
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
2 412.00	98.89	101.39	-	-	400	H	174	2.50	-	74.00	-	-
4 813.40	37.27	37.97	-	-	300	V	145	0.70	36.03	74.00	-	-
4 824.20	44.04	44.84	-	-	300	V	156	0.80	29.16	74.00	-	-
5 180.00	87.97	98.87	-	-	300	V	158	10.90	-	74.00	-	-
10 360.55	29.28	38.18	-	-	100	V	131	8.90	35.82	74.00	-	-
15 540.15	26.63	41.13	-	-	400	V	141	14.50	32.87	74.00	-	-

Remarks

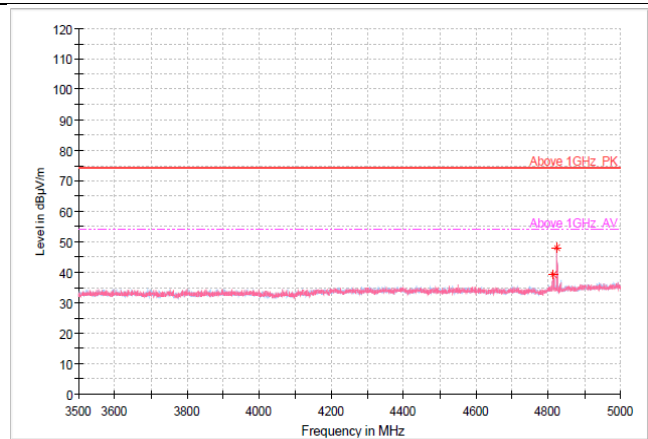
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

RSDB_SISO_ANT2_2.4 GHz WLAN_802.11n(HT20)_2412 & MIMO_UNII-1_802.11a_5180

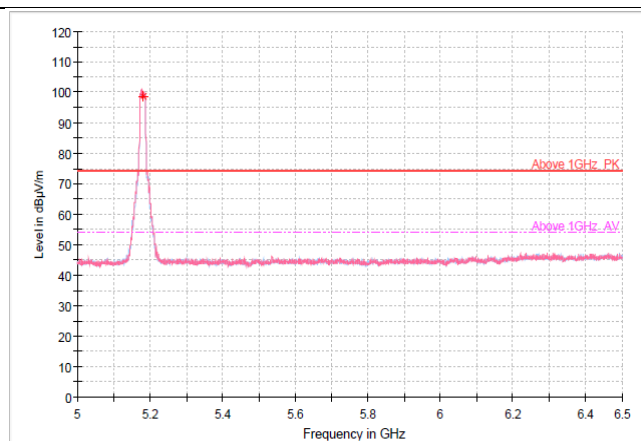
1 GHz - 3.5 GHz



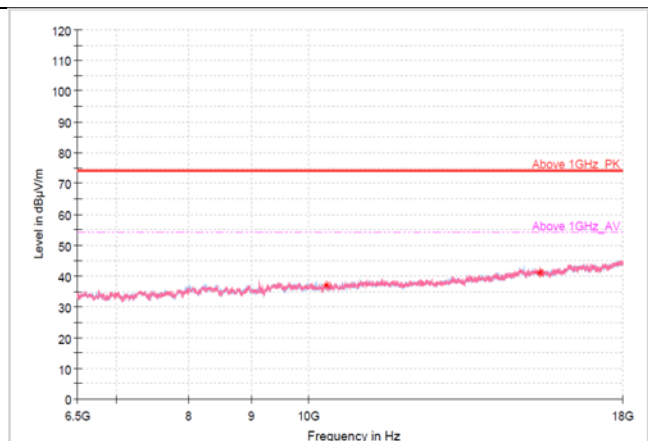
3.5 GHz – 5 GHz



5 GHz - 6.5 GHz



6.5 GHz - 18 GHz



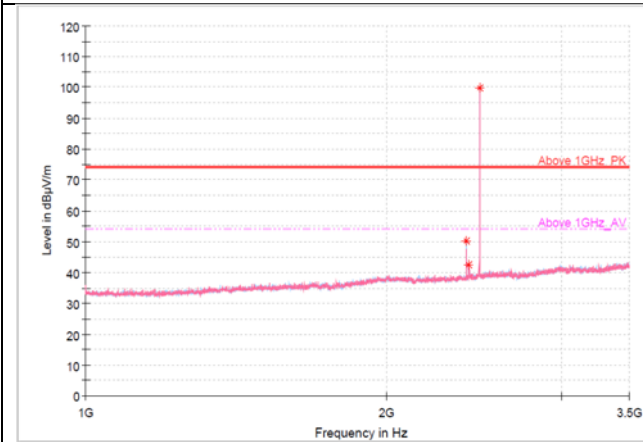
Frequency [MHz]	Peak Reading Value [dBµV/m]	Peak Result [dBµV/m]	AVG Reading Value [dBµV/m]	AVG Result [dBµV/m]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dBµV/m]	Peak Limit [dBµV/m]	AVG Margin [dBµV/m]	AVG Limit [dBµV/m]
2 412.00	94.50	97.00	-	-	400	V	201	2.50	-	74.00	-	-
4 813.25	38.48	39.18	-	-	300	V	154	0.70	34.82	74.00	-	-
4 824.05	47.10	47.90	-	-	100	H	204	0.80	26.10	74.00	-	-
5 180.00	87.79	98.69	-	-	300	V	157	10.90	-	74.00	-	-
10 360.55	28.03	36.93	-	-	300	V	130	8.90	37.07	74.00	-	-
15 399.85	26.48	41.08	-	-	100	V	264	14.60	32.92	74.00	-	-

Remarks

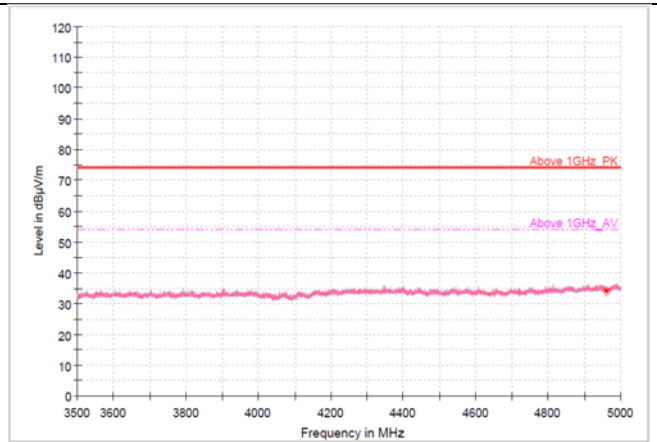
1. Peak Result(dBµV/m) = Peak Reading Value(dBµV/m) + Correction Factor(dB)
2. Average Result(dBµV/m) = Average Reading Value(dBµV/m) + DCCF + Correction Factor(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

RSDB_SISO_ANT1_Bluetooth_GFSK_2480 & MIMO_UNII-1_802.11a_5180

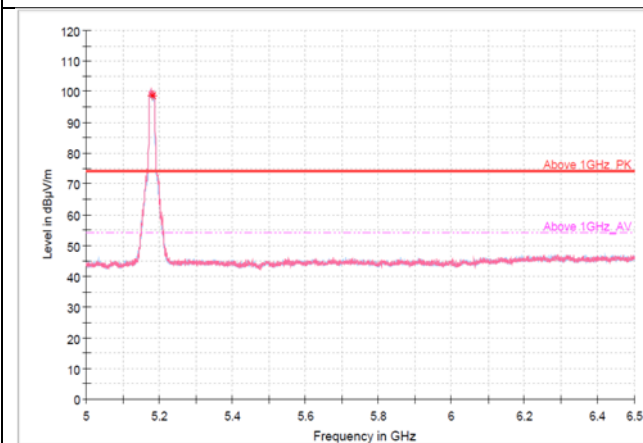
1 GHz - 3.5 GHz



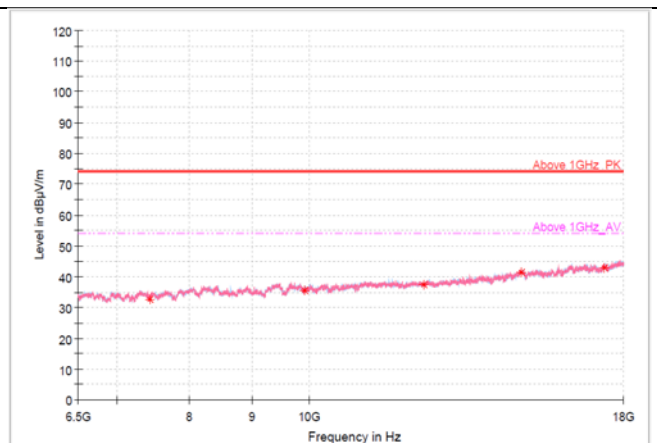
3.5 GHz – 5 GHz



5 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]
2 403.25	47.83	50.23	-	-	100	H	213	2.40	23.77	74.00	-	-
2 420.00	40.16	42.66	-	-	100	H	211	2.50	31.34	74.00	-	-
2 480.00	96.90	99.90	-	-	100	H	213	3.00	-	74.00	-	-
4 960.10	33.09	34.29	-	-	200	V	300	1.20	34.29	74.00	-	-
5 180.00	87.65	98.55	-	-	300	V	180	10.90	-	74.00	-	-
12 400.65	27.05	37.45	-	-	200	H	67	10.40	36.55	74.00	-	-
17 360.60	26.20	42.80	-	-	200	H	313	16.60	31.20	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)
5. Margin(dB) = (Peak/Average) Result (dBµV/m) – (Peak/Average) Limit (dBµV/m)

3.6 AC Conducted Emissions (150 kHz to 30 MHz)

3.6.1 Regulation

§15.207(a) : Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

3.6.2 Test Procedure

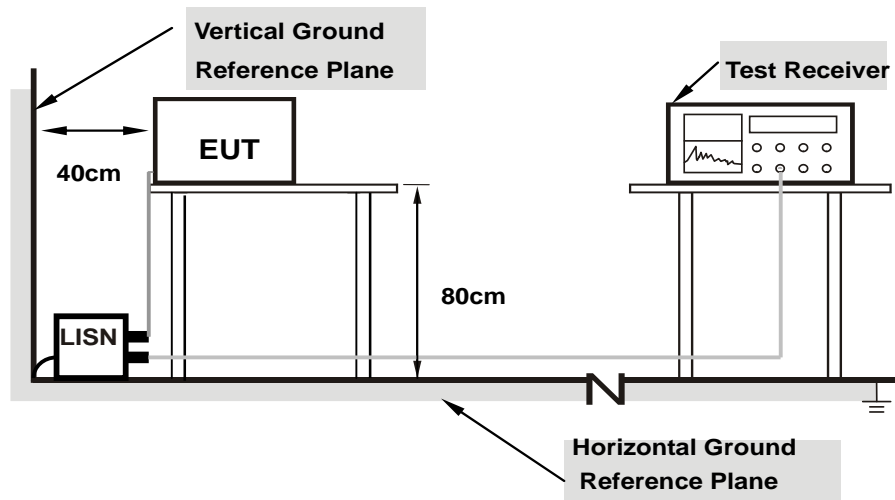
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm / 50 μ H of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Remark : The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

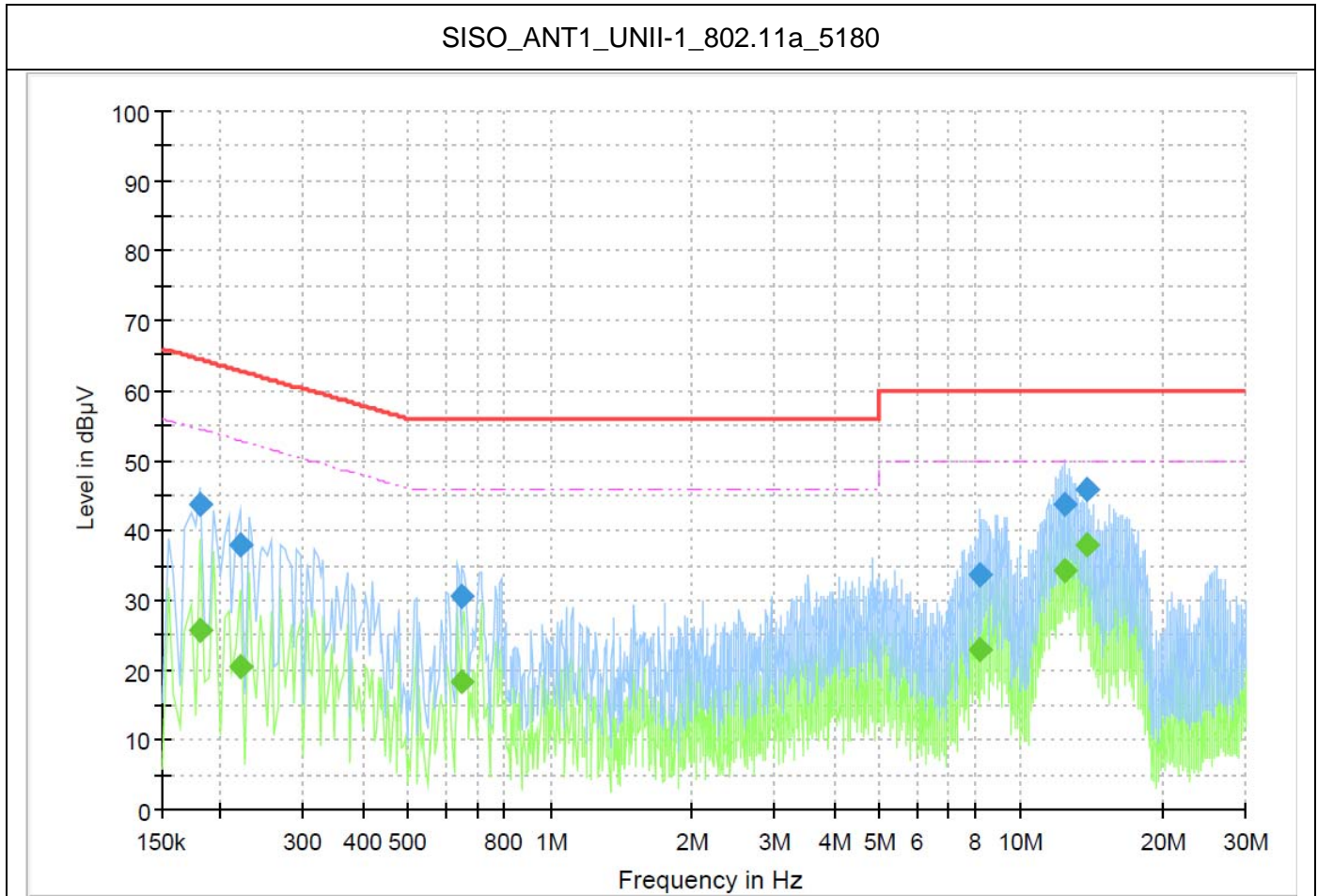
3.6.3 Deviation from Test Standard

No deviation.

3.6.4 Test Setup



3.6.5 Test Result

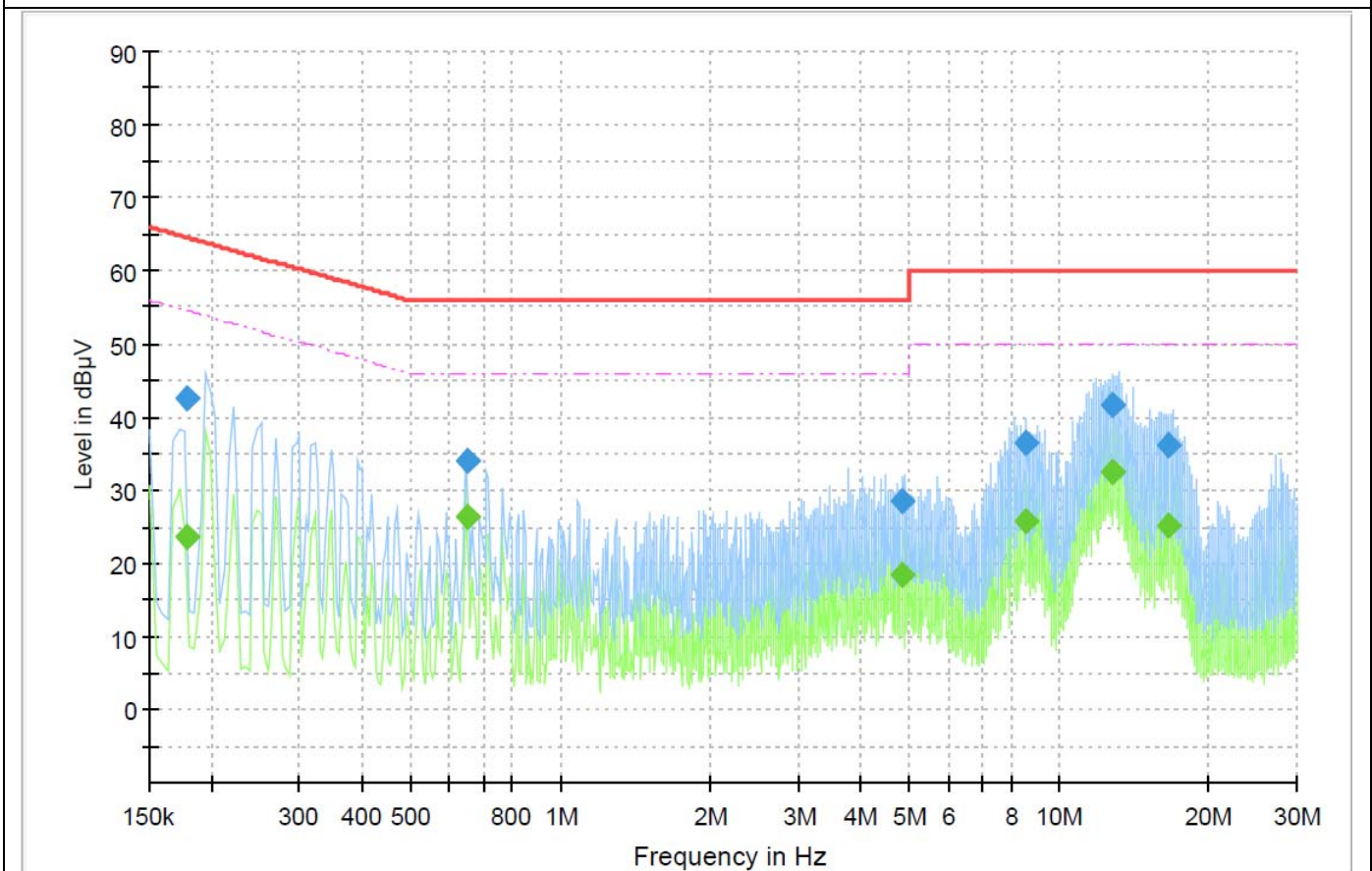


Frequency [MHz]	Quasi Peak Reading Value [dBµV]	Quasi Peak Result [dBµV]	CAV Reading Value [dBµV]	CAV Result [dBµV]	Line	Correction Factor [dB/m]	Quasi Peak Margin [dBµV]	Quasi Peak Limit [dBµV]	CAV Margin [dBµV]	CAV Limit [dBµV]
0.18	33.68	43.78	-	-	N	10.10	20.67	64.45	-	-
0.18	-	-	15.51	25.61	N	10.10	-	-	28.85	54.45
0.22	28.03	37.93	-	-	L1	9.90	24.88	62.81	-	-
0.22	-	-	10.58	20.48	L1	9.90	-	-	32.33	52.81
0.65	20.60	30.70	-	-	N	10.10	25.30	56.00	-	-
0.65	-	-	8.28	18.38	N	10.10	-	-	27.62	46.00
8.17	23.47	33.57	-	-	L1	10.10	26.43	60.00	-	-
8.17	-	-	12.83	22.93	L1	10.10	-	-	27.07	50.00
12.40	-	-	23.97	34.27	L1	10.30	-	-	15.73	50.00
12.40	33.35	43.65	-	-	L1	10.30	16.35	60.00	-	-
13.78	-	-	27.49	37.79	L1	10.30	-	-	12.21	50.00

Remarks

- Final Value (QP and/or CAV) = Reading Value (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
Margin (QP and/or CAV) = Limit – Final Value (QP and/or CAV)
QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor
- Two graphs measured for both Live (L1) and Neutral (N) of the LISN are combined into one graph.

SISO_ANT2_UNII-1_802.11a_5180



Frequency [MHz]	Quasi Peak Reading Value [dBµV]	Quasi Peak Result [dBµV]	CAV Reading Value [dBµV]	CAV Result [dBµV]	Line	Correction Factor [dB/m]	Quasi Peak Margin [dBµV]	Quasi Peak Limit [dBµV]	CAV Margin [dBµV]	CAV Limit [dBµV]
0.18	32.39	42.49	-	-	N	10.10	22.09	64.58	-	-
0.18	-	-	13.68	23.78	N	10.10	-	-	30.80	54.58
0.65	24.04	34.14	-	-	L1	10.10	21.86	56.00	-	-
0.65	-	-	16.30	26.40	L1	10.10	-	-	19.60	46.00
4.85	-	-	8.38	18.38	L1	10.00	-	-	27.62	46.00
4.85	18.42	28.42	-	-	L1	10.00	27.58	56.00	-	-
8.60	26.39	36.49	-	-	L1	10.10	23.51	60.00	-	-
8.60	-	-	15.55	25.65	L1	10.10	-	50.00	24.35	50.00
12.82	31.52	41.82	-	-	L1	10.30	18.18	60.00	-	-
12.82	-	-	22.34	32.64	L1	10.30	-	-	17.36	50.00
16.54	25.83	36.33	-	-	N	10.50	23.67	60.00	-	-
16.54	-	-	14.71	25.21	N	10.50	-	-	24.79	50.00

Remarks

- Final Value (QP and/or CAV) = Reading Value (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
Margin (QP and/or CAV) = Limit – Final Value (QP and/or CAV)
QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor
- Two graphs measured for both Live (L1) and Neutral (N) of the LISN are combined into one graph.

4 U-NII DFS Rule Requirements

4.1 Regulation

§15.407(h) : Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS).

(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

(i) Operational Modes. The DFS requirement applies to the following operational modes:

(A) The requirement for channel availability check time applies in the master operational mode.

(B) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

(iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

(i) Device Security. All U-NII devices must contain security features to protect against modification of software by unauthorized parties.

(1) Manufacturers must implement security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software must prevent the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers may use means including, but not limited to the use of a private network

that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.

(2) Manufacturers must take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

4.2 DFS Overview

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250 – 5350 MHz and/or 5470 – 5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not Required	Yes
<i>DFS Detection Threshold</i>	Yes	Not Required	Yes
<i>Channel Availability Check Time</i>	Yes	Not Required	Not Required
<i>U-NII Detection Bandwidth</i>	Yes	Not Required	Yes

Requirement	Operational Mode	
	Master Device or Client With Radar Detection	Client With Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not Required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not Required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note : Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

4.3 DFS Detection Threshold

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

4.4 Response Requirements

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + and aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100 % of the U-NII 99 % transmission power bandwidth. See Note 3.
<p>Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

4.5 Radar Test Waveforms

- Parameters for Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number-of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{array}{l} \left(\frac{1}{360} \right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

- Parameters for Long Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number-of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

- Parameters for Frequency Hopping Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number-of Trials
6	1	333	9	0.333	300	70%	30

4.6 Test Procedure

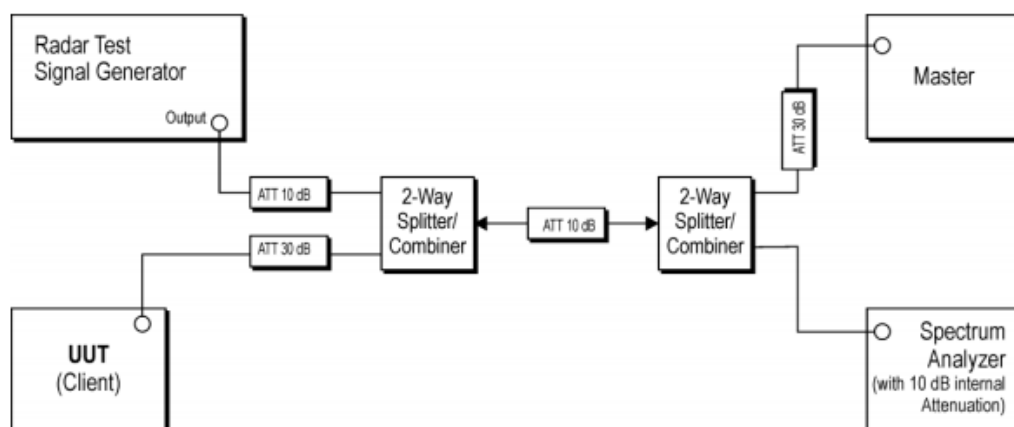
4.6.1 DFS Measurement System

The sections below contain block diagrams that focus on the Radar Waveform injection path for each of the different conducted setups to be used. Each setup consists of a signal generator, analyzer (spectrum analyzer or vector signal analyzer), Master Device, Client Device, plus power combiner/splitters and attenuators. The Client Device is set up to Associate with the Master Device. The designation of the UUT (Master Device or Client Device) and the device into which the Radar Waveform is injected varies among the setups.

Other topologies may be used provided that: (1) the radar and UUT signals can be discriminated from each other on the analyzer and (2) the radar DFS Detection Threshold level at the UUT is stable.

To address point (1), for typical UUT power levels and typical minimum antenna gains, the topologies shown will result in the following relative amplitudes of each signal as displayed on the analyzer: the Radar Waveform level is the highest, the signal from the UUT is the next highest, while the signal from the device that is associated with the UUT is the lowest. Attenuator values may need to be adjusted for particular configurations.

To address point (2), the isolation characteristic between ports 1 and 2 of a power combiner/splitter are extremely sensitive to the impedance presented to the common port, while the insertion loss characteristic between the common port and (port 1, for example) are relatively insensitive to the impedance presented to (port 2, in this example). Thus, the isolation between ports 1 and 2 should never be part of the path that establishes the radar DFS Detection Threshold. The 10 dB attenuator after the signal generator is specified as a precaution; since many of the radar test waveforms will require typical signal generators to operate with their ALC turned off, the source match will generally be degraded from the closed loop specifications.



4.7 Deviation from Test Standard

No deviation.