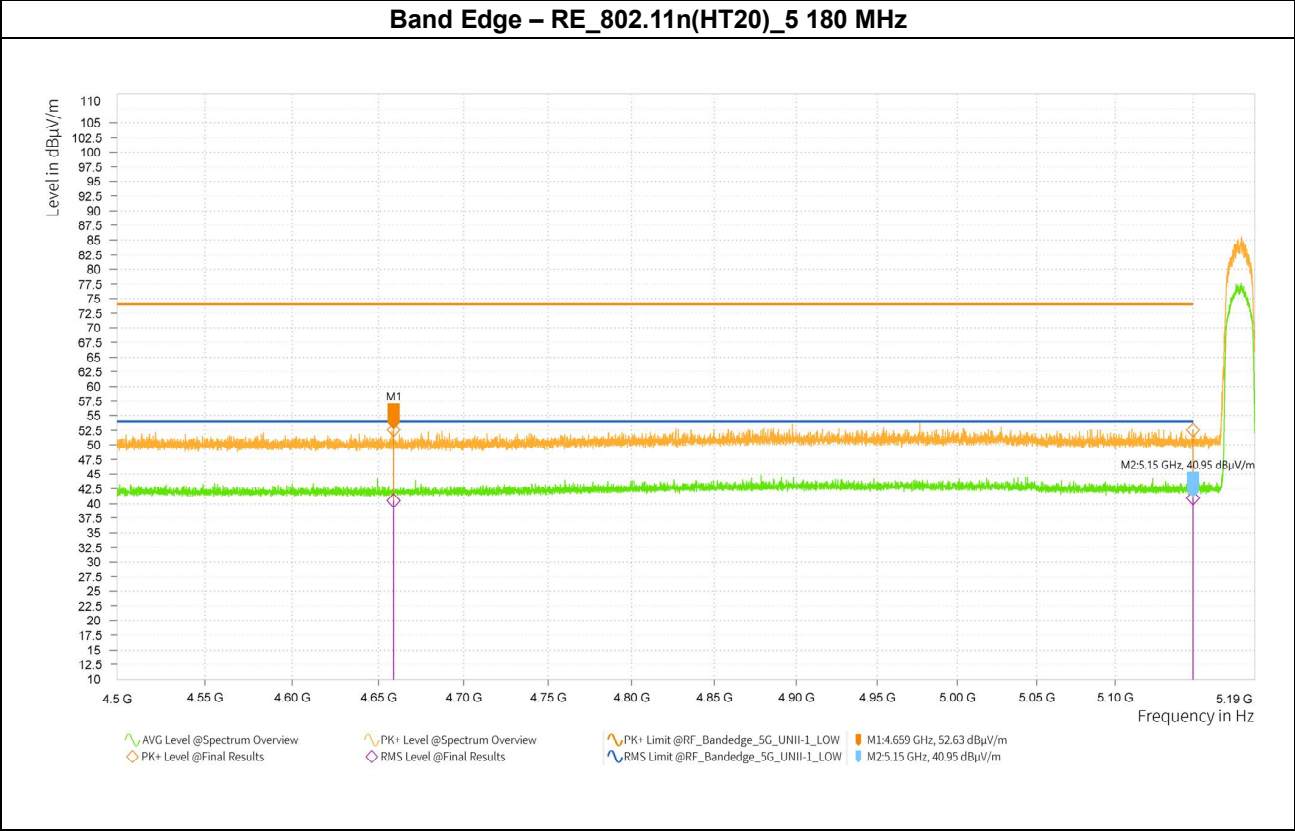


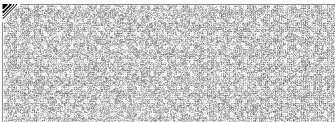


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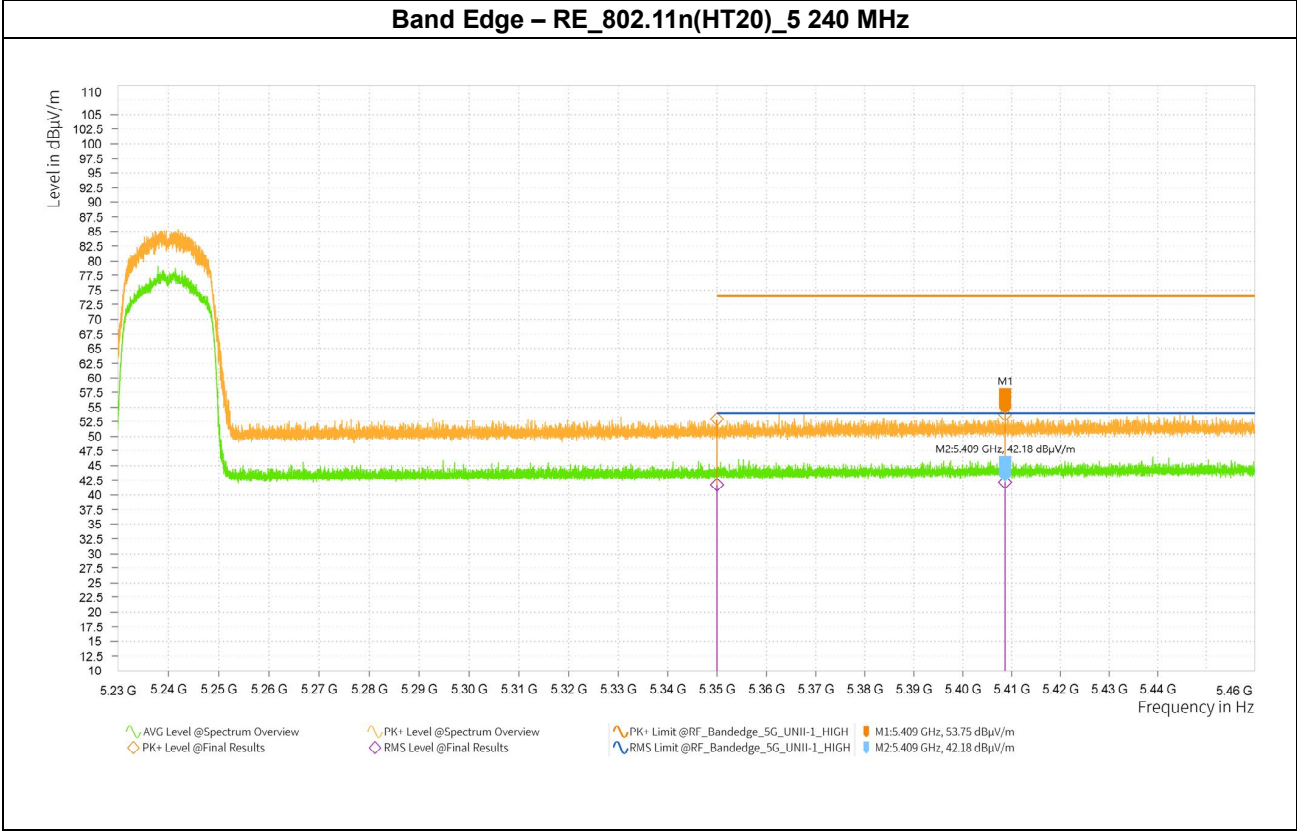
	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	4 658.769	46.25	52.63	34.15	40.93	0.40	2.00	V	163.5	6.38	21.37	74.00	13.07	54.00
*	5 150.000	45.04	52.61	33.38	41.35	0.40	1.00	H	323.4	7.57	21.39	74.00	12.65	54.00

- Note)
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
 2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
 3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
 4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
 5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
 6. * - indicates frequency in Restricted Band.



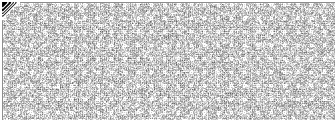
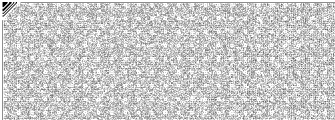
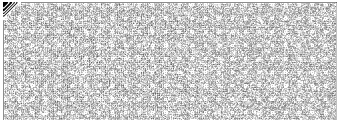


KIEL2403-YW03403-R01



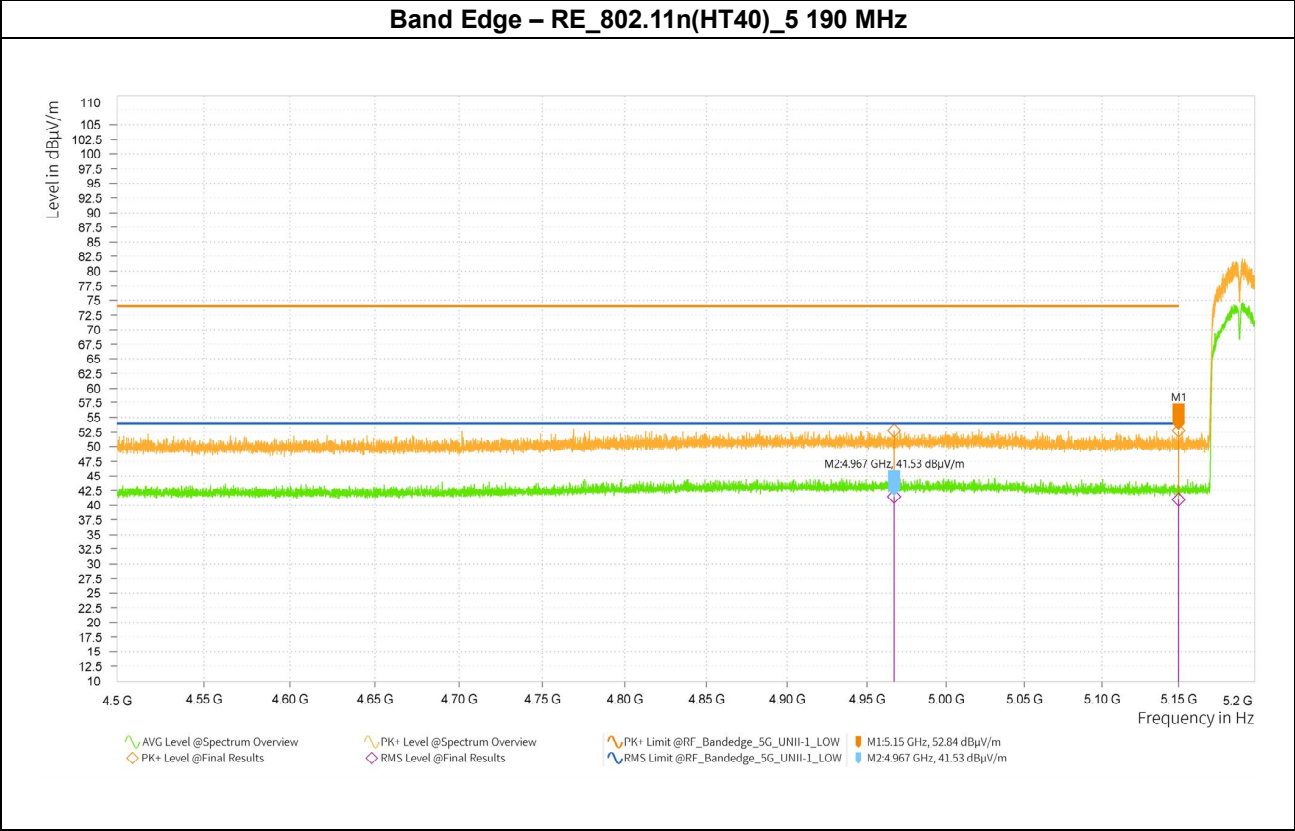
	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	5 350.003	44.95	52.96	33.73	42.14	0.40	2.00	H	357.4	8.01	21.04	74.00	11.86	54.00
*	5 408.653	45.43	53.75	33.86	42.58	0.40	3.00	V	266.4	8.32	20.25	74.00	11.42	54.00

- Note)
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
 2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
 3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
 4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
 5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
 6. * - indicates frequency in Restricted Band.



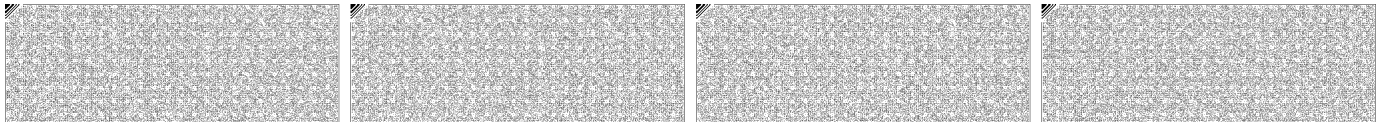


KIEL2403-YW03403-R01



	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	4 967.075	45.28	52.83	33.98	42.34	0.81	3.00	V	0.0	7.55	21.17	74.00	11.66	54.00
*	5 150.000	45.27	52.84	33.44	41.82	0.81	1.00	H	72.9	7.57	21.16	74.00	12.18	54.00

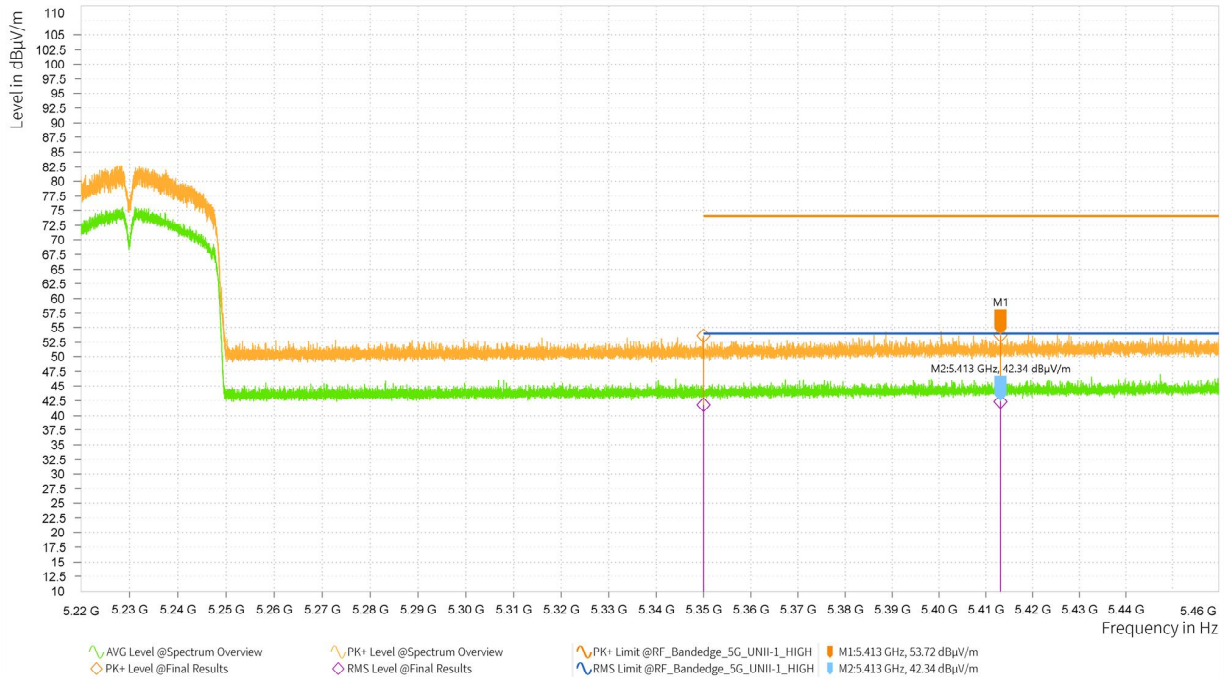
- Note)
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
 2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
 3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
 4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
 5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
 6. * - indicates frequency in Restricted Band.





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Band Edge – RE_802.11n(HT40)_5 230 MHz



	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	5 350.000	45.63	53.64	33.82	42.64	0.81	3.00	V	359.9	8.01	20.36	74.00	11.36	54.00
*	5 413.147	45.38	53.72	34.00	43.15	0.81	1.00	H	168.3	8.34	20.28	74.00	10.85	54.00

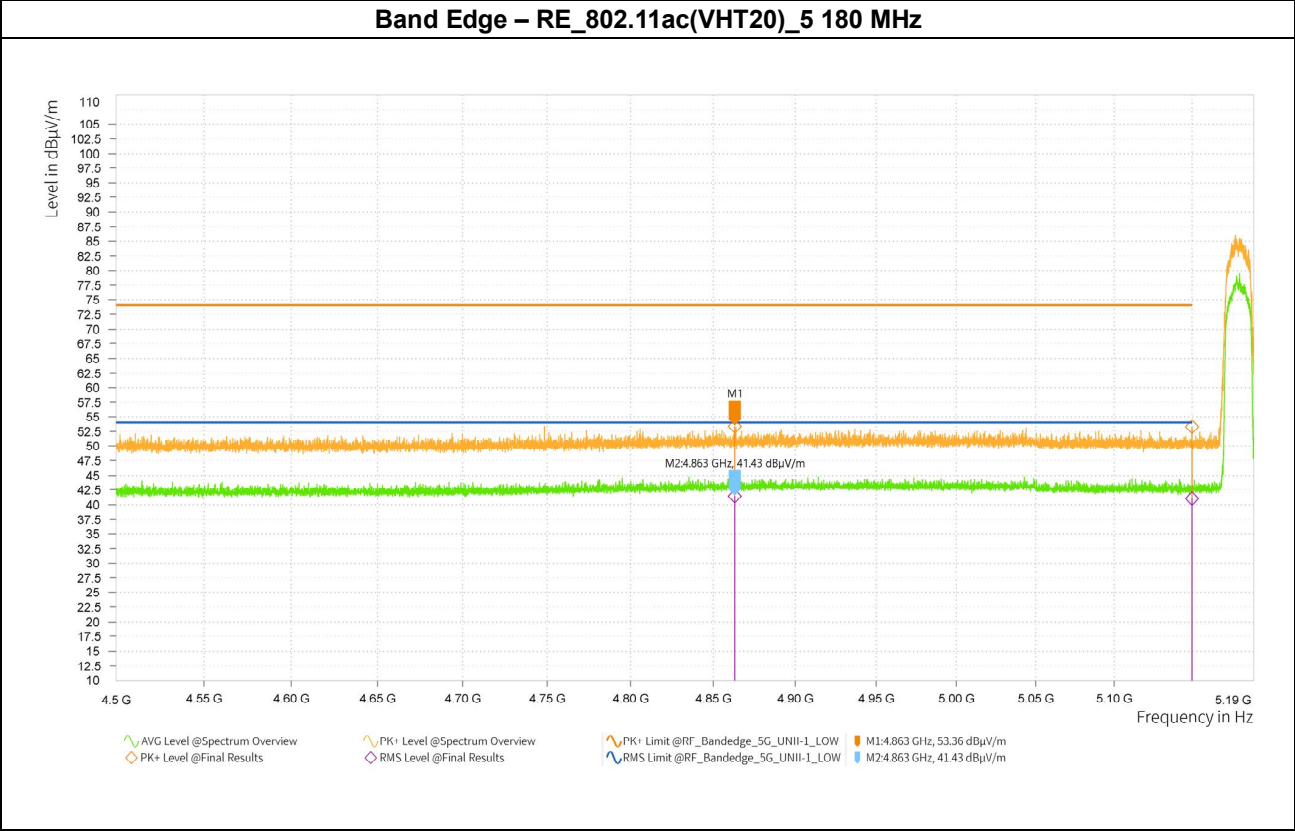
Note)

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
6. * - indicates frequency in Restricted Band.



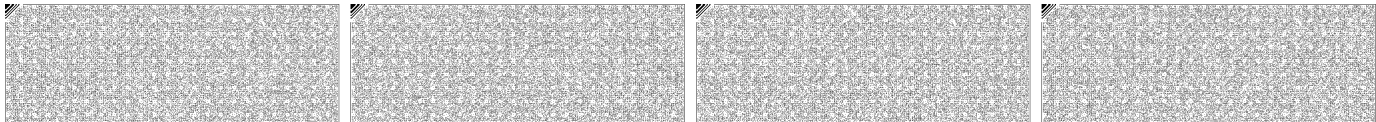


KIEL2403-YW03403-R01



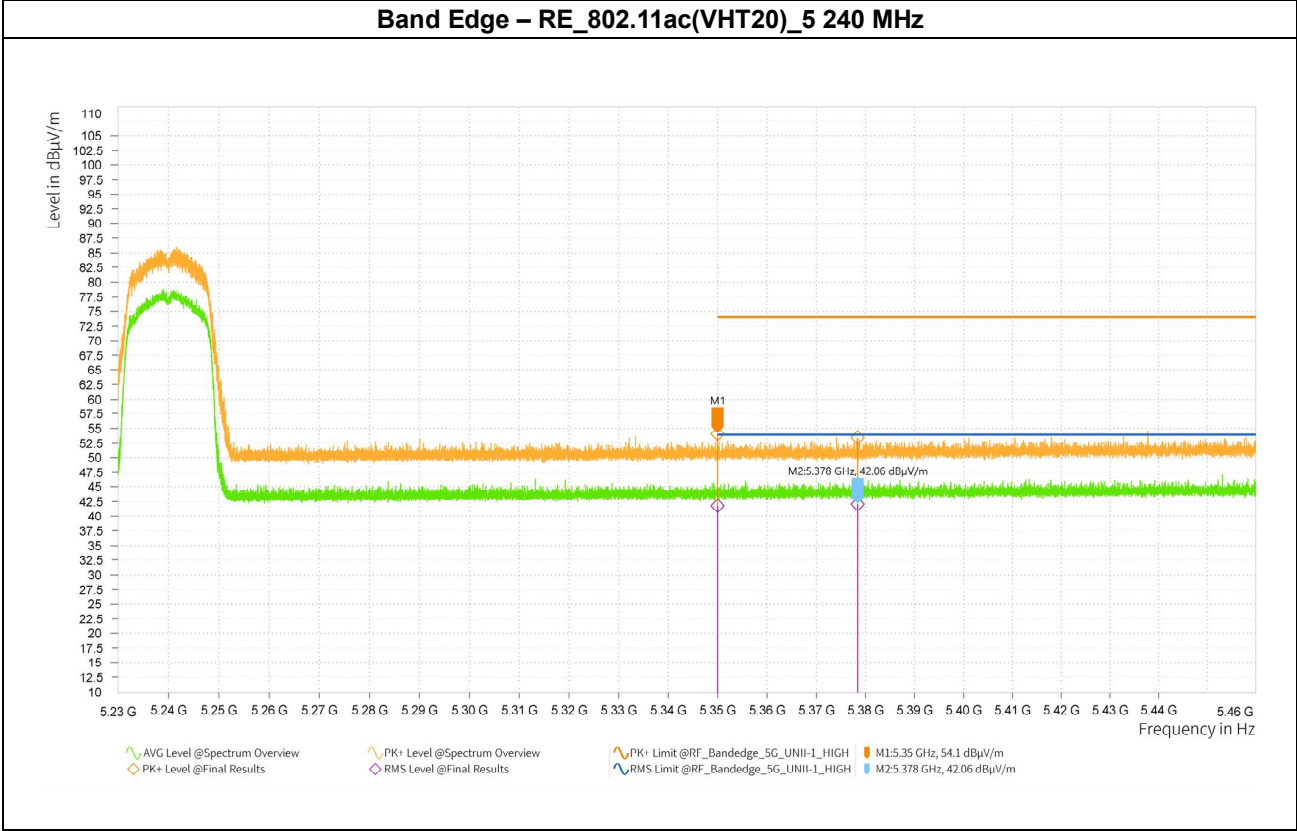
	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	4 863.055	45.98	53.36	34.05	42.30	0.87	2.00	V	187.4	7.38	20.64	74.00	11.70	54.00
*	5 150.000	45.74	53.31	33.46	41.90	0.87	2.00	H	357.4	7.57	20.69	74.00	12.10	54.00

- Note)
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
 2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
 3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
 4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
 5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
 6. * - indicates frequency in Restricted Band.





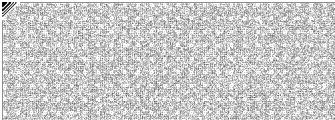
KIEL2403-YW03403-R01



Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
* 5 350.000	46.09	54.10	33.80	42.68	0.87	1.00	H	273.6	8.01	19.90	74.00	11.32	54.00
* 5 378.388	45.34	53.50	33.90	42.93	0.87	2.00	V	64.3	8.16	20.50	74.00	11.07	54.00

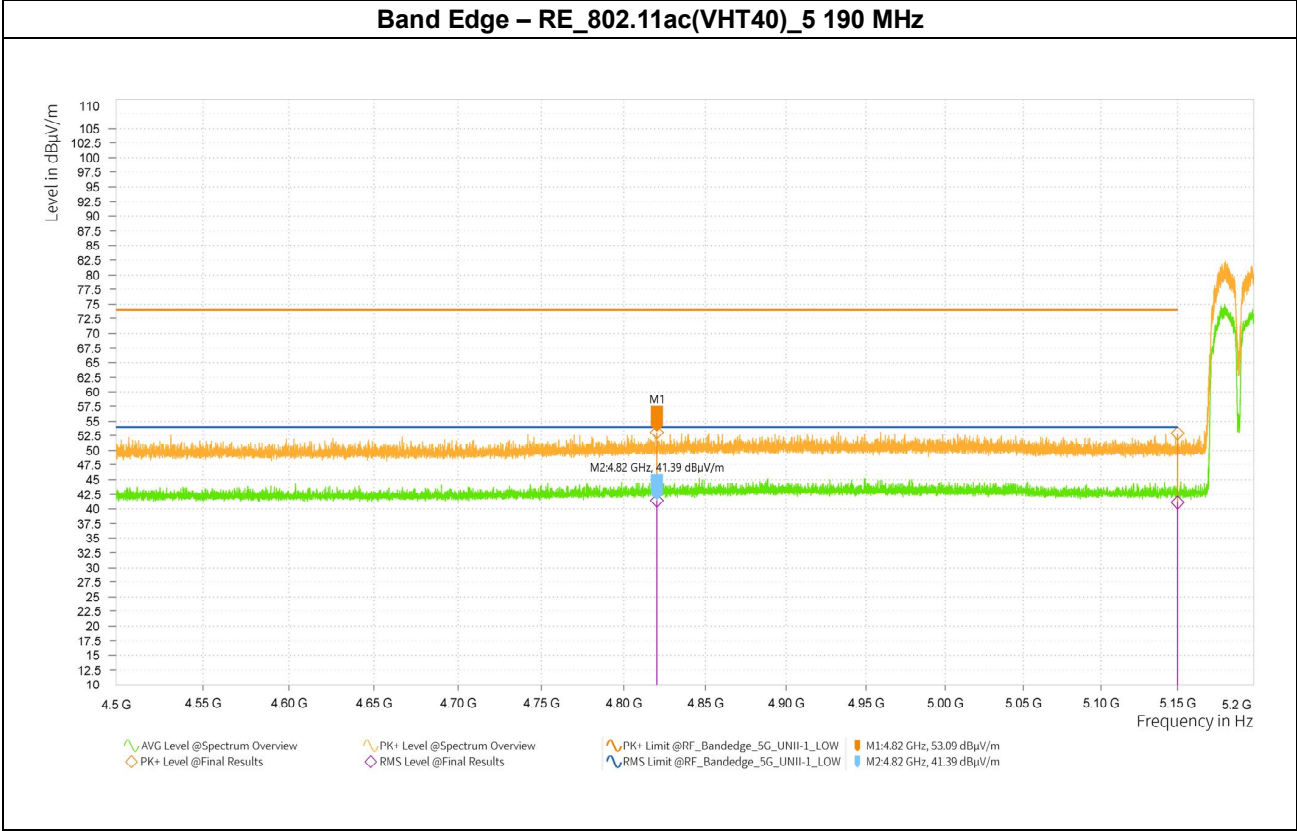
Note)

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
6. * - indicates frequency in Restricted Band.



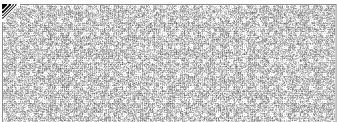
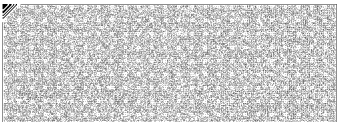
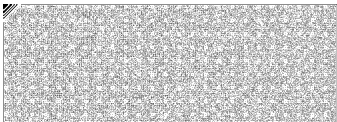


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	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	4 820.250	45.91	53.09	34.21	42.12	0.73	2.00	H	78.2	7.18	20.91	74.00	11.88	54.00
*	5 150.000	45.34	52.91	33.52	41.82	0.73	3.00	V	133.1	7.57	21.09	74.00	12.18	54.00

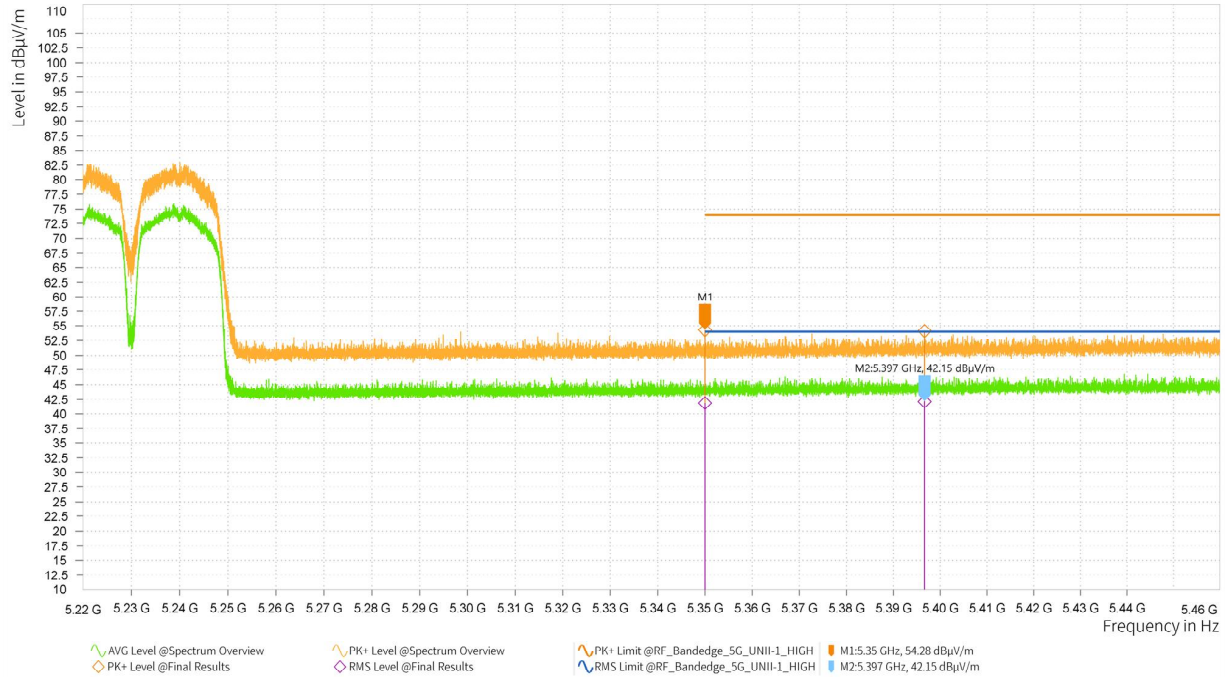
- Note)
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
 2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
 3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
 4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
 5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
 6. * - indicates frequency in Restricted Band.





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Band Edge – RE_802.11ac(VHT40)_5 230 MHz



	Frequency [MHz]	Peak Reading [dBuV]	Peak Result [dBuV/m]	AVG Reading [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol	Azimuth [deg]	Corr. [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
*	5 350.000	46.27	54.28	33.87	42.61	0.73	3.00	V	196.2	8.01	19.72	74.00	11.39	54.00
*	5 396.676	45.85	54.11	33.89	42.88	0.73	1.00	H	141.8	8.26	19.89	74.00	11.12	54.00

Note)

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = Average Reading Value(dBuV) + Correction Factor(dB/m) + DCCF(dB)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Limit (dBuV/m) – (Peak/AVG) Result (dBuV/m)
6. * - indicates frequency in Restricted Band.



6.6 AC Conducted Emissionss (150 kHz to 30 MHz)

6.6.1 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

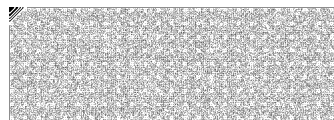
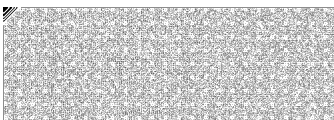
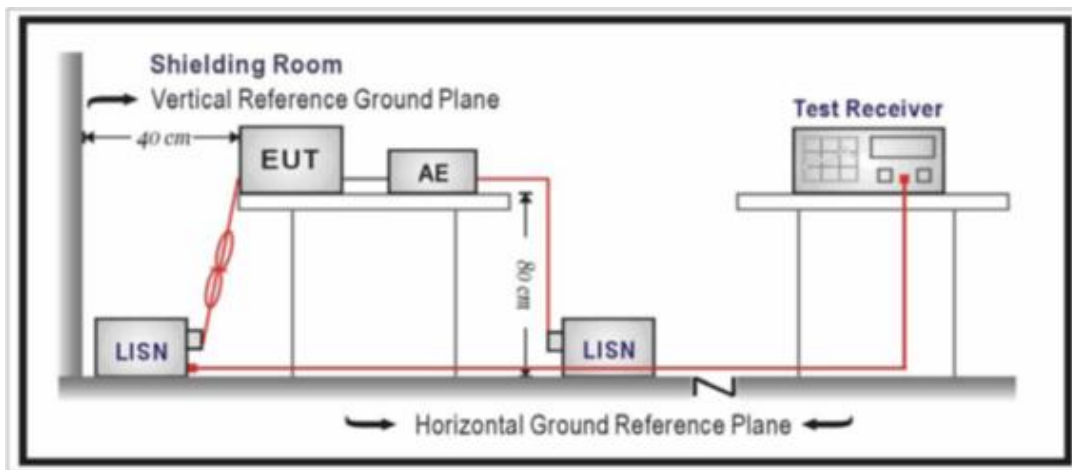
* Decreases with the logarithm of the frequency.

6.6.2 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.

6.6.3 Test Setup

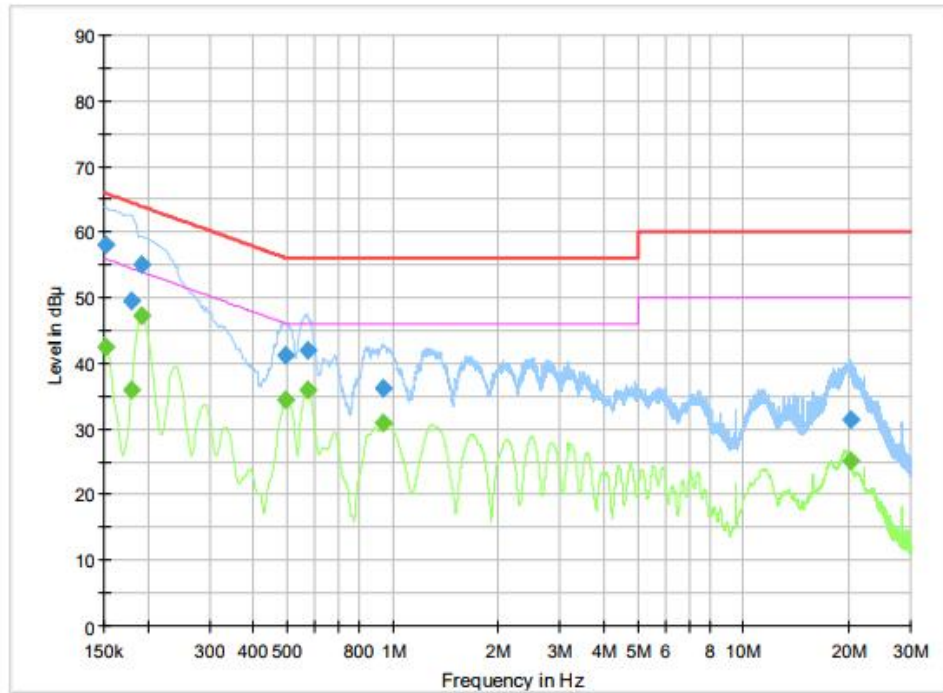




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6.6.4 Test Result

Worst Case - CE_802.11a_5 180 MHz



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.152	---	42.37	55.88	13.51	9.0	N	ON	9.7
0.152	57.96	---	65.88	7.92	9.0	N	ON	9.7
0.179	---	35.89	54.52	18.63	9.0	N	ON	9.8
0.179	49.52	---	64.52	15.01	9.0	N	ON	9.8
0.193	55.02	---	63.92	8.90	9.0	L1	ON	9.9
0.193	---	47.27	53.92	6.65	9.0	L1	ON	9.9
0.497	41.13	---	56.06	14.93	9.0	L1	ON	9.8
0.497	---	34.46	46.06	11.60	9.0	L1	ON	9.8
0.571	41.91	---	56.00	14.09	9.0	L1	ON	9.8
0.571	---	35.87	46.00	10.13	9.0	L1	ON	9.8
0.935	36.17	---	56.00	19.83	9.0	L1	ON	9.7
0.935	---	30.96	46.00	15.04	9.0	L1	ON	9.7
20.162	---	25.09	50.00	24.91	9.0	N	ON	9.9
20.162	31.44	---	60.00	28.56	9.0	N	ON	9.9

Note)

1. Final Value (QP and/or CAV) = Reading Value (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
2. Margin (QP and/or CAV) = Limit – Final Value (QP and/or CAV)
3. Two graphs measured for both Live (L1) and Neutral (N) of the LISN are combined into one graph.

- END of report -

