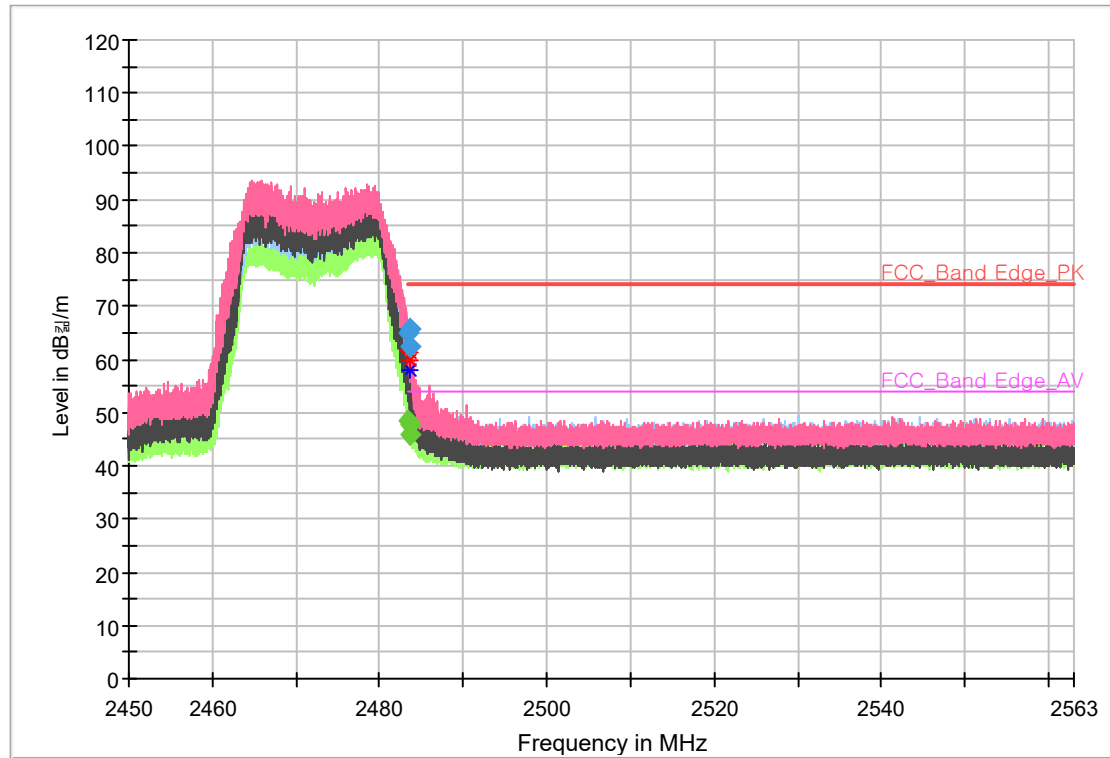


Band Edge_2.4 GHz WLAN_802.11g_2472

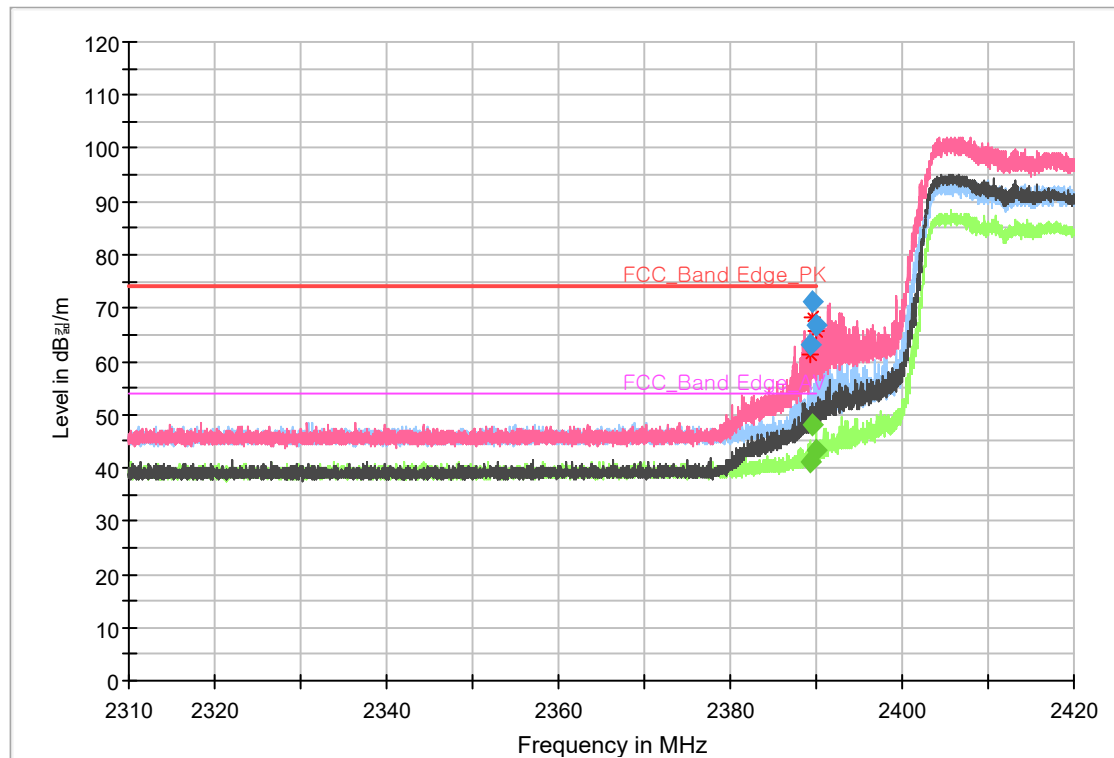


Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.50	61.22	65.12	---	---	---	253	V	83	3.90	8.88	74.00	---	54.00
2 483.50	---	---	44.51	48.73	0.32	253	V	83	3.90	---	74.00	5.27	54.00
2 483.51	58.64	62.54	---	---	---	240	H	109	3.90	11.46	74.00	---	54.00
2 483.51	---	---	41.89	46.11	0.32	240	H	109	3.90	---	74.00	7.89	54.00
2 483.53	61.63	65.53	---	---	---	251	V	73	3.90	8.47	74.00	---	54.00
2 483.53	---	---	43.90	48.12	0.32	251	V	73	3.90	---	74.00	5.88	54.00

Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
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) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)

Band Edge_2.4 GHz WLAN_802.11n(HT20)_2412

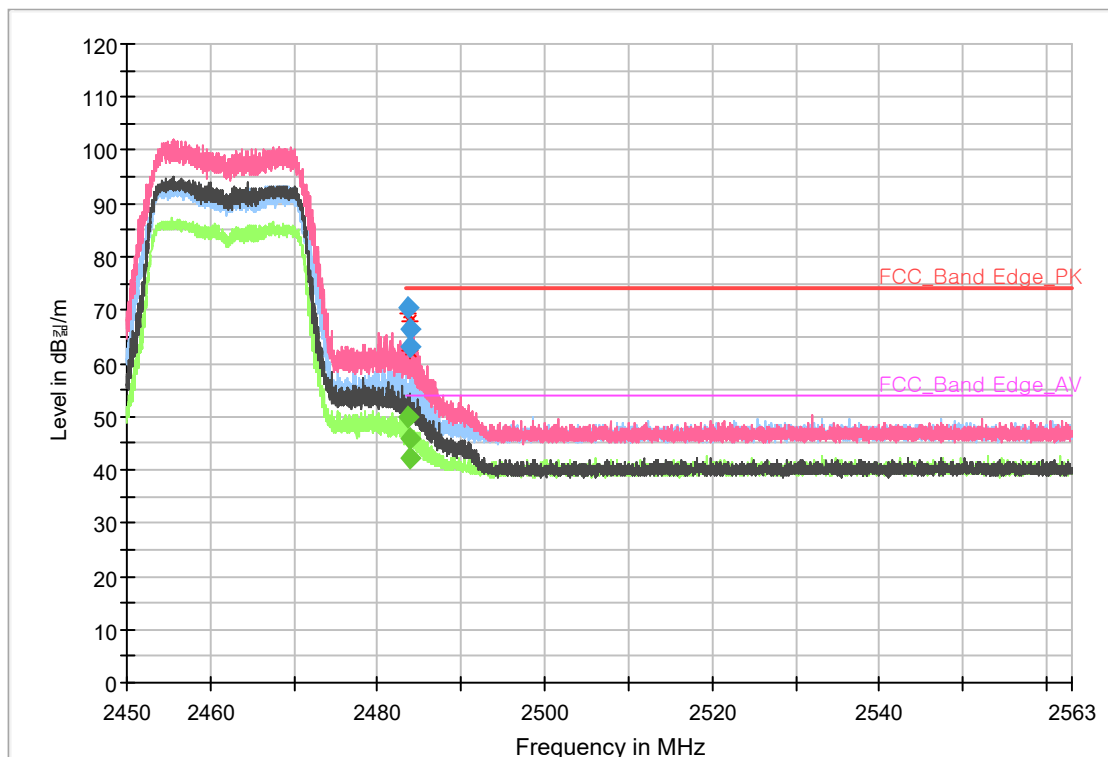


Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 389.41	59.75	63.05	---	---	---	304	H	220	3.30	10.95	74.00	---	54.00
2 389.41	---	---	37.82	41.47	0.35	304	H	220	3.30	---	74.00	12.53	54.00
2 389.57	68.01	71.31	---	---	---	151	V	68	3.30	2.69	74.00	---	54.00
2 389.57	---	---	44.65	48.30	0.35	151	V	68	3.30	---	74.00	5.70	54.00
2 389.94	63.38	66.68	---	---	---	239	V	15	3.30	7.32	74.00	---	54.00
2 389.94	---	---	39.93	43.58	0.35	239	V	15	3.30	---	74.00	10.42	54.00

Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
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) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)

Band Edge_2.4 GHz WLAN_802.11n(HT20)_2462

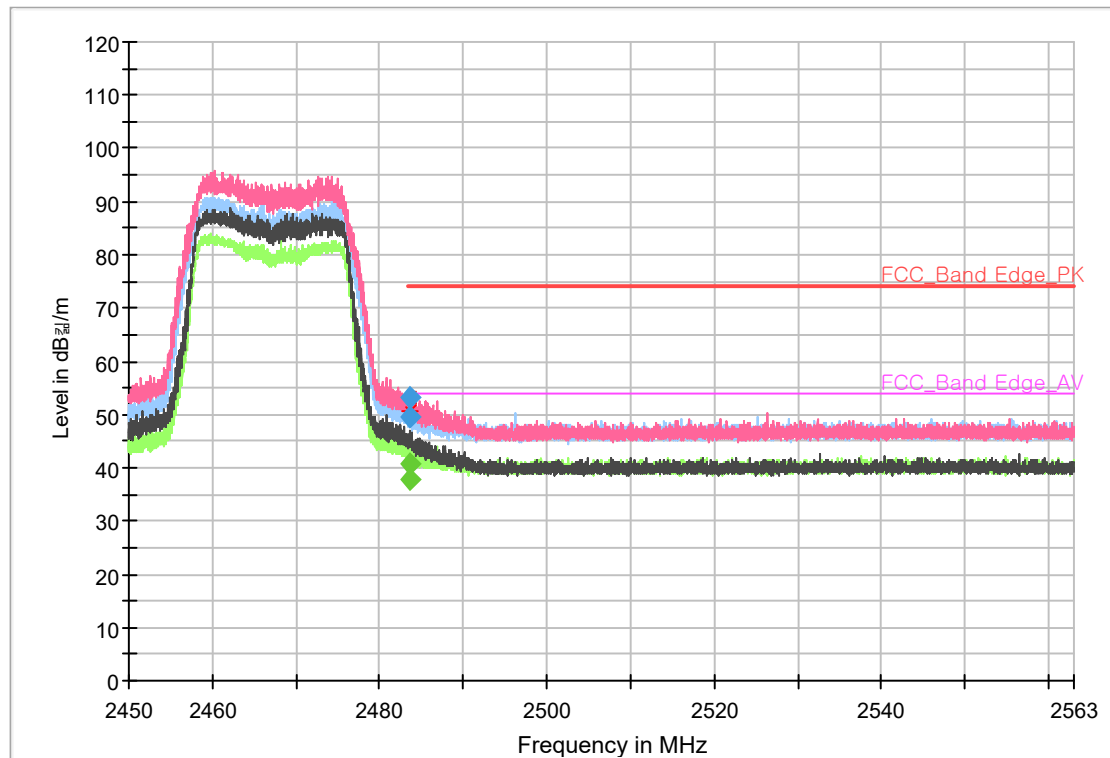


Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.54	66.47	70.37	---	---	---	150	V	97	3.90	3.63	74.00	---	54.00
2 483.54	---	---	46.01	50.26	0.35	150	V	97	3.90	---	74.00	3.74	54.00
2 483.87	62.50	66.40	---	---	---	300	V	92	3.90	7.60	74.00	---	54.00
2 483.87	---	---	42.03	46.28	0.35	300	V	92	3.90	---	74.00	7.72	54.00
2 483.97	59.06	62.96	---	---	---	211	H	74	3.90	11.04	74.00	---	54.00
2 483.97	---	---	38.28	42.53	0.35	211	H	74	3.90	---	74.00	11.47	54.00

Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
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) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)

Band Edge_2.4 GHz WLAN_802.11n(HT20)_2467

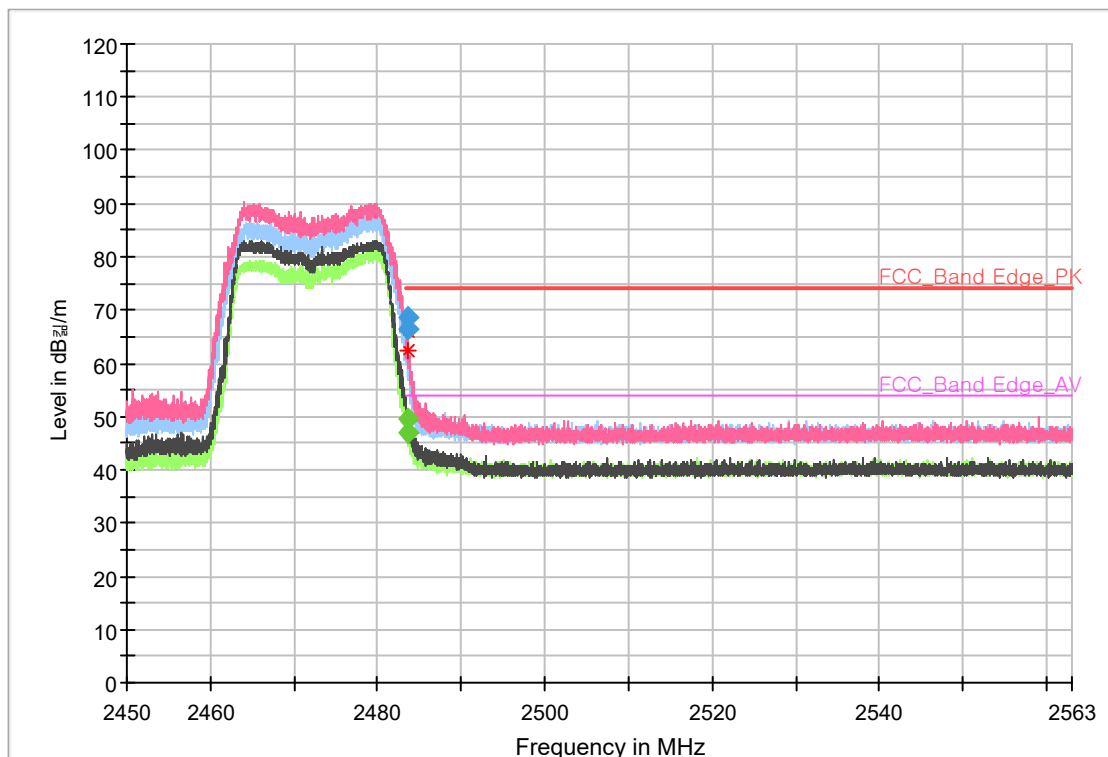


Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.53	49.39	53.29	---	---	---	159	V	131	3.90	20.71	74.00	---	54.00
2 483.53	---	---	36.82	41.07	0.35	159	V	131	3.90	---	74.00	12.93	54.00
2 483.71	45.48	49.38	---	---	---	274	H	230	3.90	24.62	74.00	---	54.00
2 483.71	---	---	33.79	38.04	0.35	274	H	230	3.90	---	74.00	15.96	54.00

Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
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) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)

Band Edge_2.4 GHz WLAN_802.11n(HT20)_2472



Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.50	64.85	68.75	---	---	---	150	V	103	3.90	5.25	74.00	---	54.00
2 483.50	---	---	45.65	49.90	0.35	150	V	103	3.90	---	74.00	4.10	54.00
2 483.52	62.57	66.47	---	---	---	196	H	249	3.90	7.53	74.00	---	54.00
2 483.52	---	---	43.22	47.47	0.35	196	H	249	3.90	---	74.00	6.53	54.00

Remarks

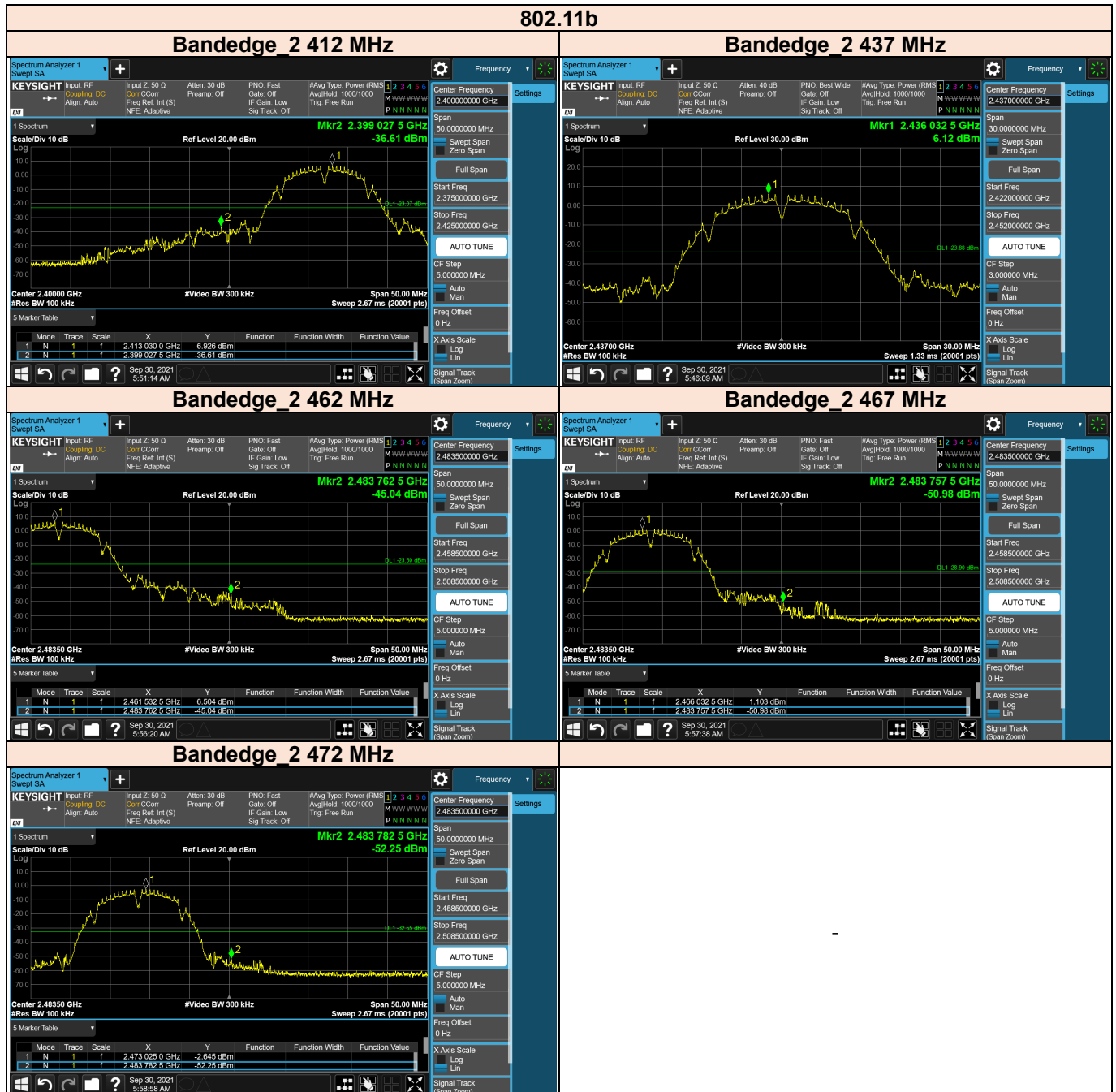
1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier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



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VERITAS

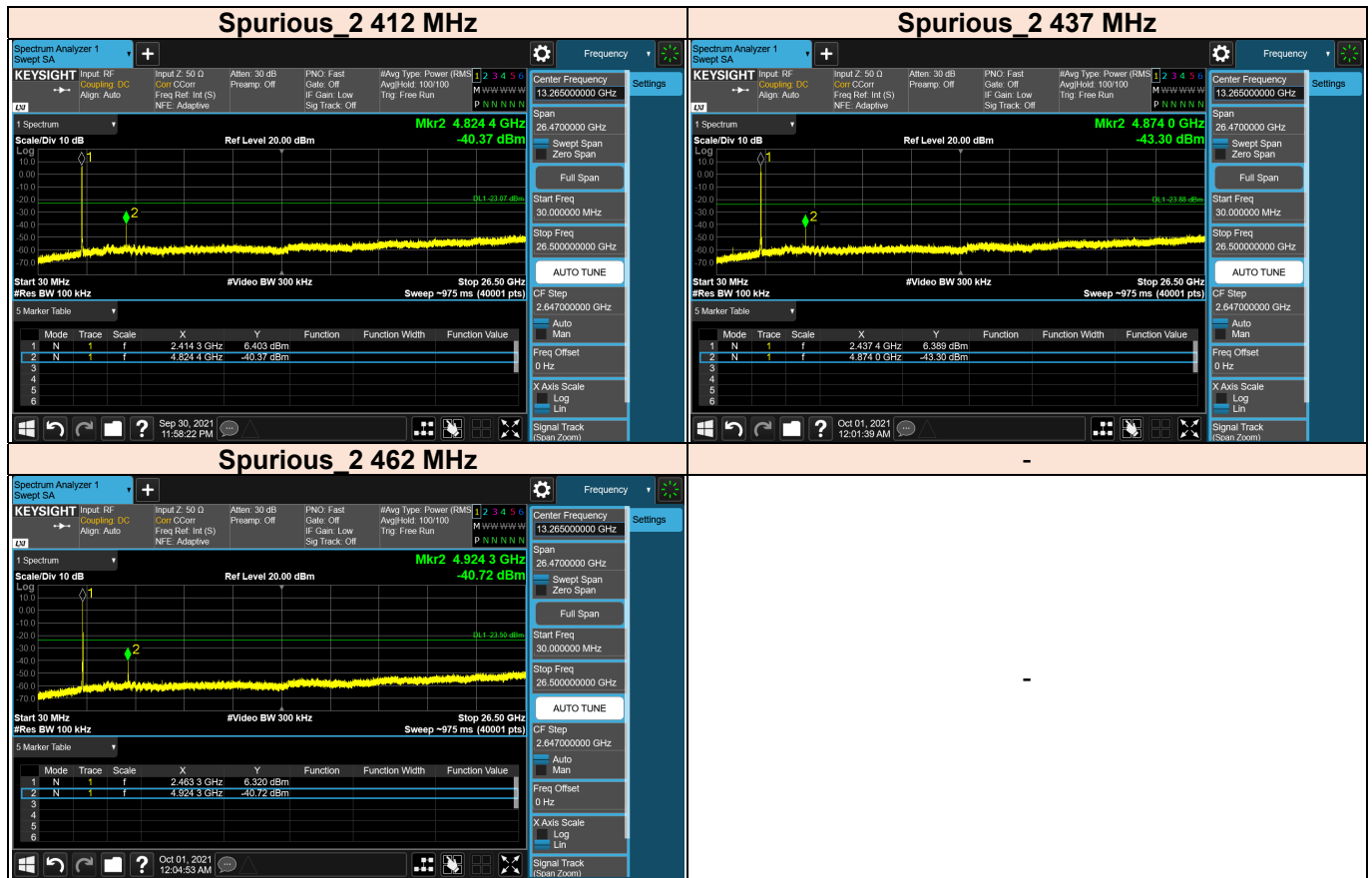
3.5.6 Test Result of Conducted Spurious Emission

802.11b





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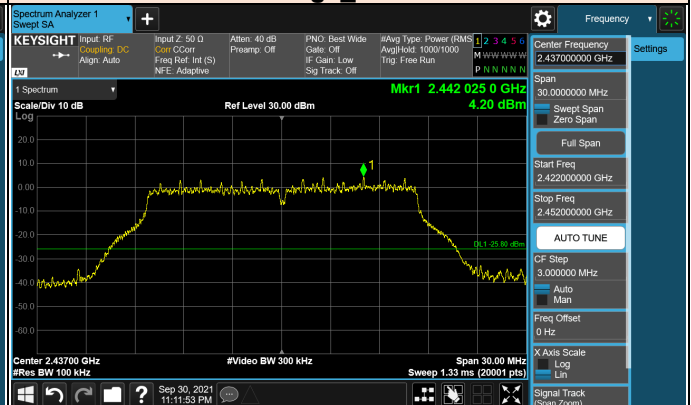
BUREAU
VERITAS

802.11g

Bandedge_2 412 MHz



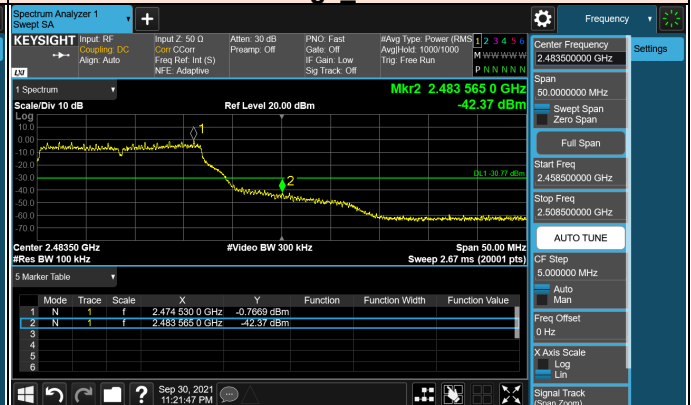
Bandedge_2 437 MHz



Bandedge_2 462 MHz

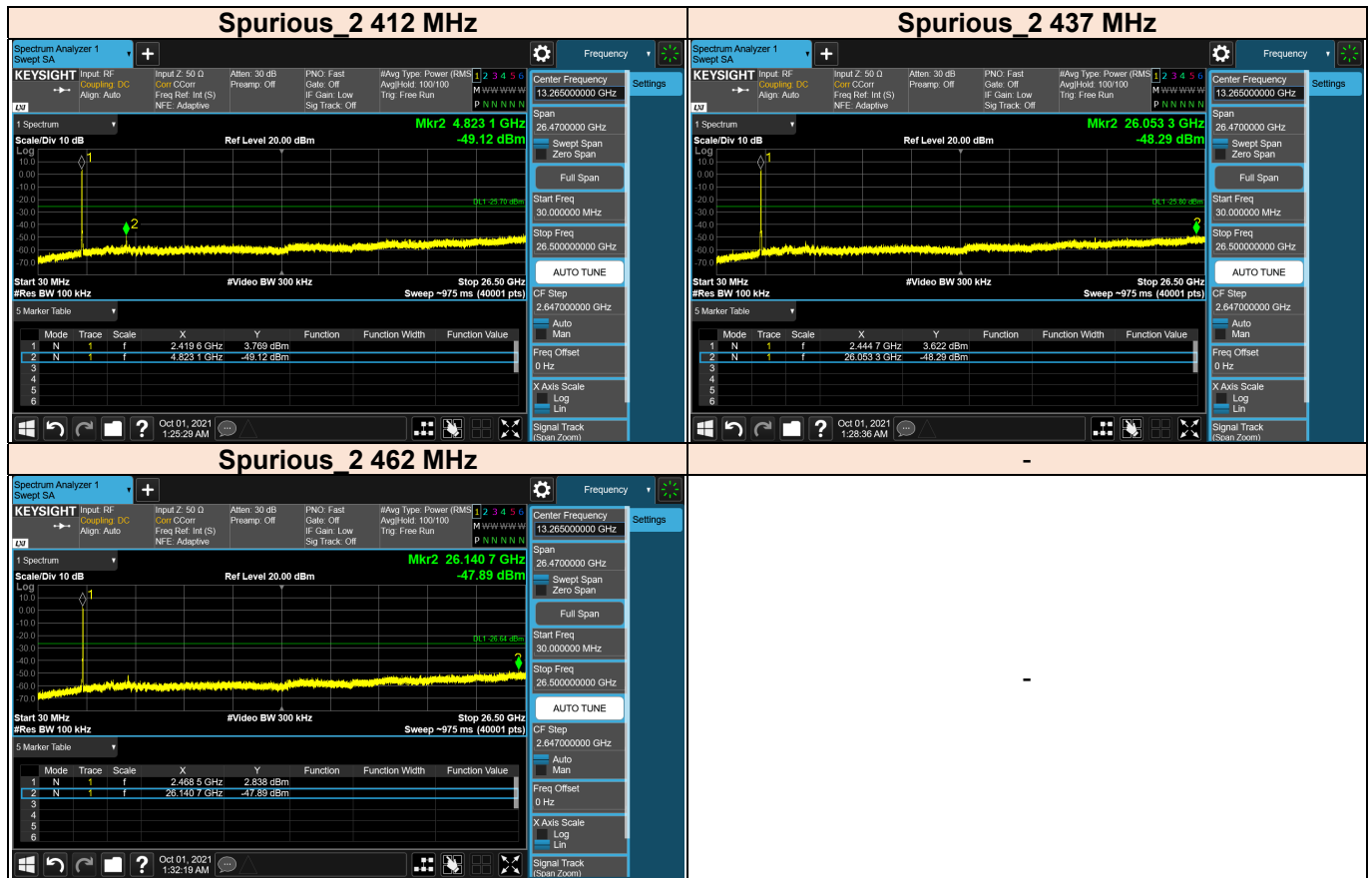


Bandedge_2 467 MHz



Bandedge_2 472 MHz







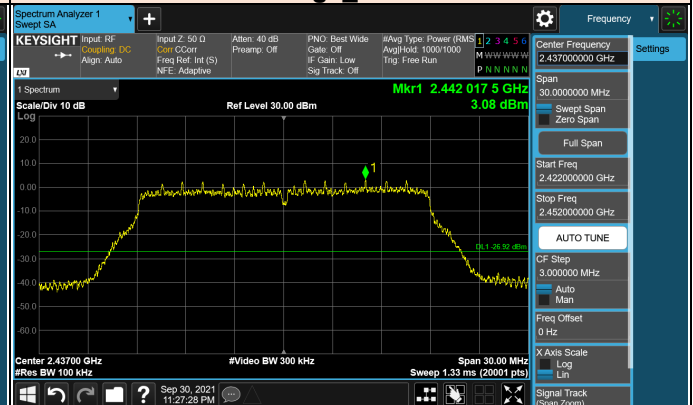
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802.11n(HT20)

Bandedge_2 412 MHz



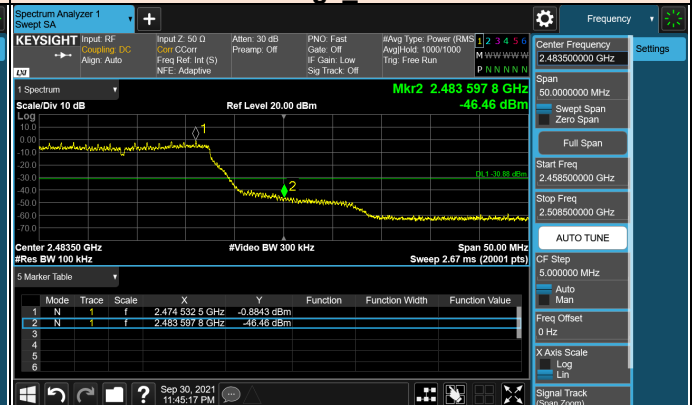
Bandedge_2 437 MHz



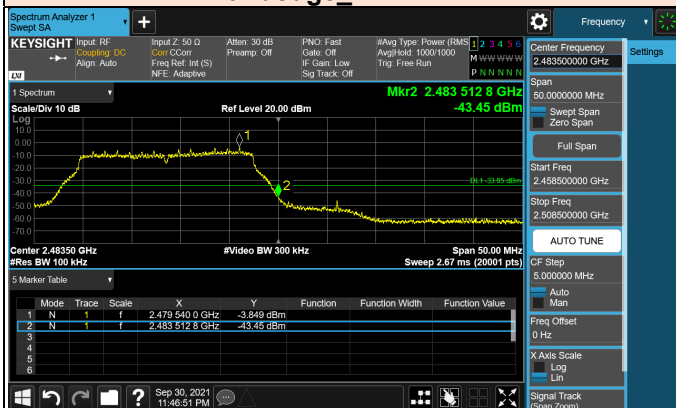
Bandedge_2 462 MHz

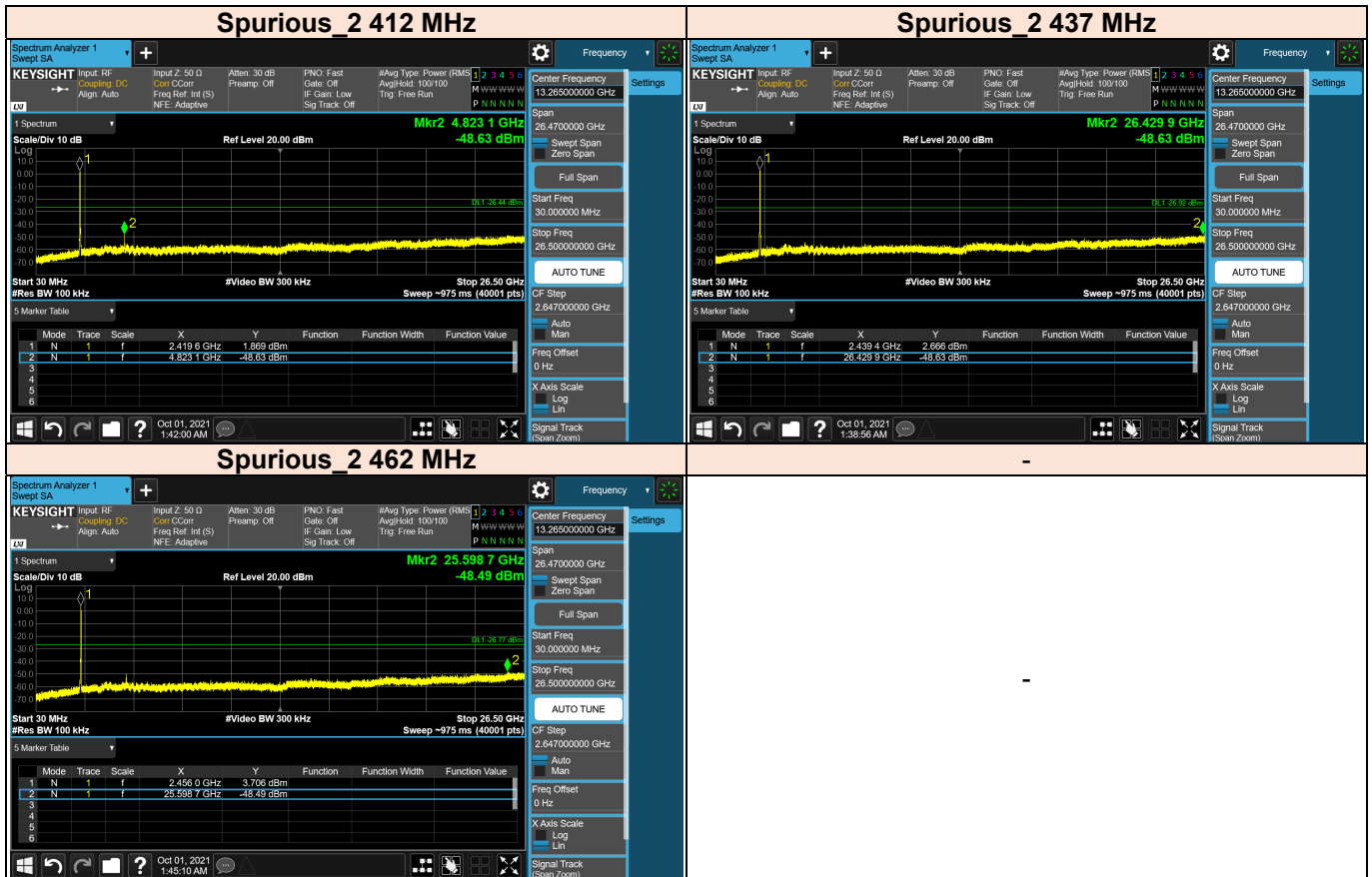


Bandedge_2 467 MHz



Bandedge_2 472 MHz





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

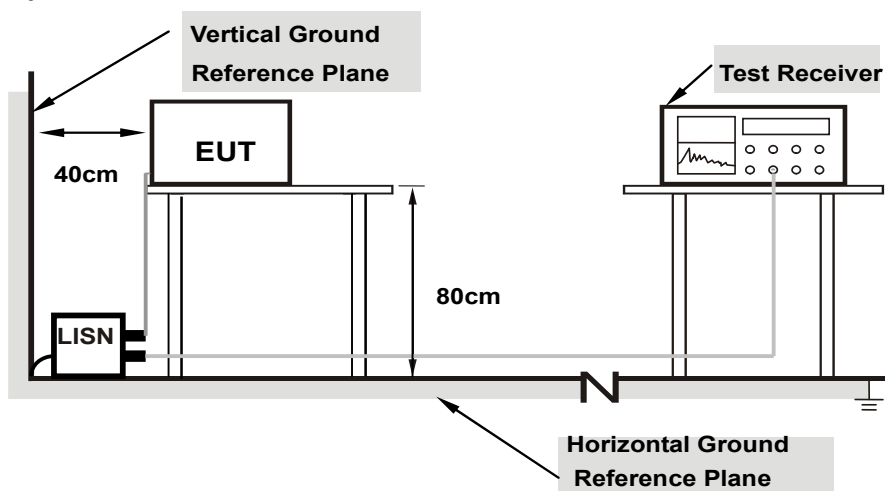
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm / 50 μ H of coupling 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

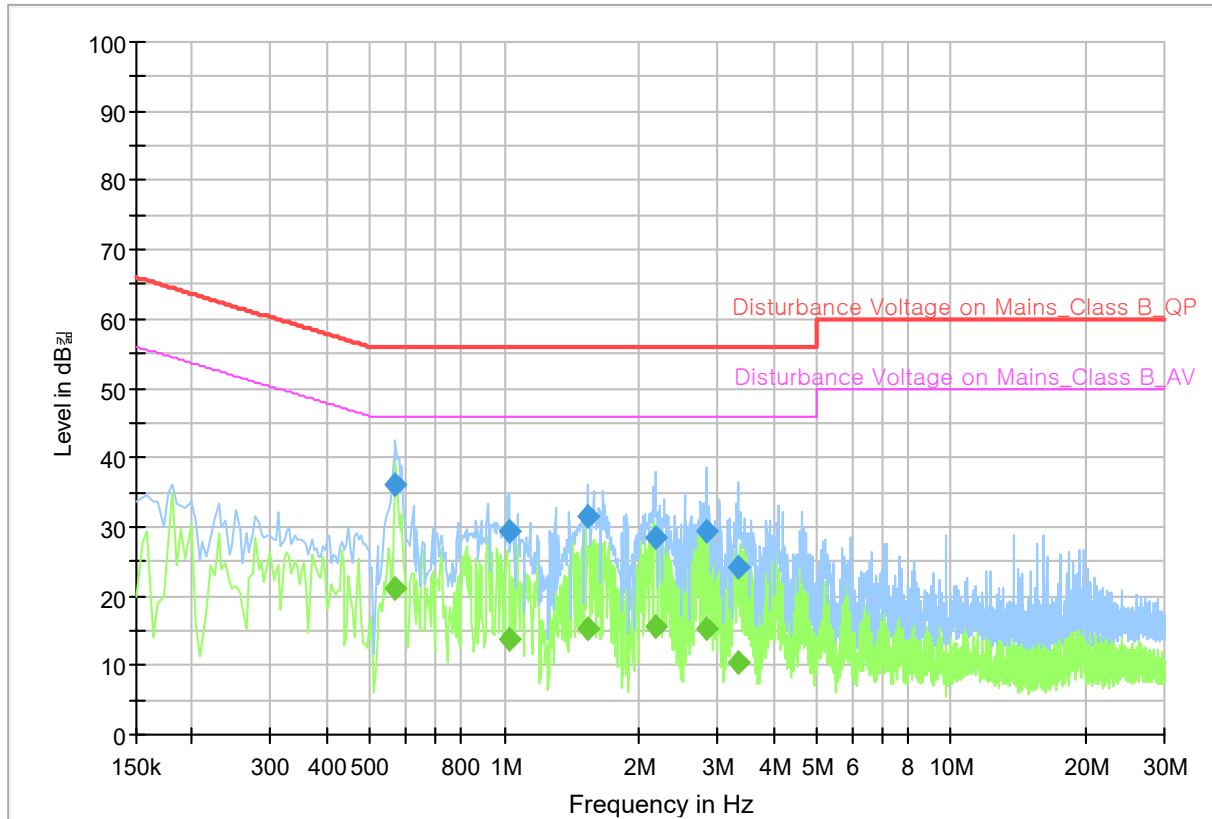
No deviation.

3.6.4 Test Setup



3.6.5 Test Result

Worst Case_2.4 GHz WLAN_802.11b_2412



Frequency [MHz]	Quasi Peak Reading Value [dBuV]	Quasi Peak Result [dBuV]	CAV Reading Value [dBuV]	CAV Result [dBuV]	Line	Correction Factor [dB/m]	Quasi Peak Margin [dBuV]	Quasi Peak Limit [dBuV]	CAV Margin [dBuV]	CAV Limit [dBuV]
0.57	25.94	35.94	---	---	N	10.00	20.06	56.00	---	---
0.57	---	---	10.96	20.96	N	10.00	---	---	25.04	46.00
1.02	19.53	29.43	---	---	L1	9.90	26.57	56.00	---	---
1.02	---	---	3.97	13.87	L1	9.90	---	---	32.13	46.00
1.54	21.74	31.64	---	---	N	9.90	24.36	56.00	---	---
1.54	---	---	5.26	15.16	N	9.90	---	---	30.84	46.00
2.17	18.49	28.29	---	---	N	9.80	27.71	56.00	---	---
2.17	---	---	5.72	15.52	N	9.80	---	---	30.48	46.00
2.82	19.39	29.29	---	---	L1	9.90	26.71	56.00	---	---
2.82	---	---	5.26	15.16	L1	9.90	---	---	30.84	46.00
3.34	14.37	24.27	---	---	L1	9.90	31.73	56.00	---	---
3.34	---	---	0.58	10.48	L1	9.90	---	---	35.52	46.00

Remarks

1. 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
2. Two graphs measured for both Live (L1) and Neutral (N) of the LISN are combined into one graph.

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services Korea. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

Test Firm Name : BV CPS ADT Korea Ltd.

Address : Innoplex No.2 106, Sinwon-ro 306, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675 KOREA

FCC

Designation Number : KR0158

Test Firm Registration Number : 666061

ISED

Designation Number : KR0158

Test Firm Registration Number : 25944

If you have any comments, please feel free to contact us at the following:

Email: Meyer.Shin@bureauveritas.com

Web Site: www.bureauveritas.co.kr/cps/eaw

The address and road map of all our labs can be found in our web site also.

- End of report -