

**CTK Co., Ltd.**

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Report No.:
CTK-2024-03272
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Test mode : Transmitter, 802.11n_HT40

The requirements are:

☒ Complies

Test Data**Ch.38(5 190 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 384.39	H	54.70	10.80	-----	65.50	-----	68.20	-----	2.70	-----	Peak
10 379.80	V	53.90	10.80	-----	64.70	-----	68.20	-----	3.50	-----	Peak

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 459.36	H	54.60	11.10	-----	65.70	-----	68.20	-----	2.50	-----	Peak
10 458.99	V	52.10	11.10	-----	63.20	-----	68.20	-----	5.00	-----	Peak

Ch.54(5 270 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 539.07	H	55.40	11.10	-----	66.50	-----	68.20	-----	1.70	-----	Peak
10 539.49	V	53.70	11.10	-----	64.80	-----	68.20	-----	3.40	-----	Peak

Ch.62(5 310 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 616.20	H	53.40	11.20	-----	64.60	-----	74.00	-----	9.40	-----	Peak
10 619.59	H	37.00	11.20	0.21	-----	48.41	-----	54.00	-----	5.59	Average
10 619.78	V	52.80	11.20	-----	64.00	-----	74.00	-----	10.00	-----	Peak
10 619.65	V	38.20	11.20	0.21	-----	49.61	-----	54.00	-----	4.39	Average

Ch.102(5 510 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

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Ch.118(5 590 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 176.95	H	47.40	12.00	-----	59.40	-----	74.00	-----	14.60	-----	Peak
11 176.67	H	35.20	12.00	0.21	-----	47.41	-----	54.00	-----	6.59	Average
11 180.22	V	48.20	12.00	-----	60.20	-----	74.00	-----	13.80	-----	Peak
11 180.13	V	36.40	12.00	0.21	-----	48.61	-----	54.00	-----	5.39	Average

Ch.134(5 670 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Ch.142(5 710 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Ch.151(5 755 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Ch.159(5 795 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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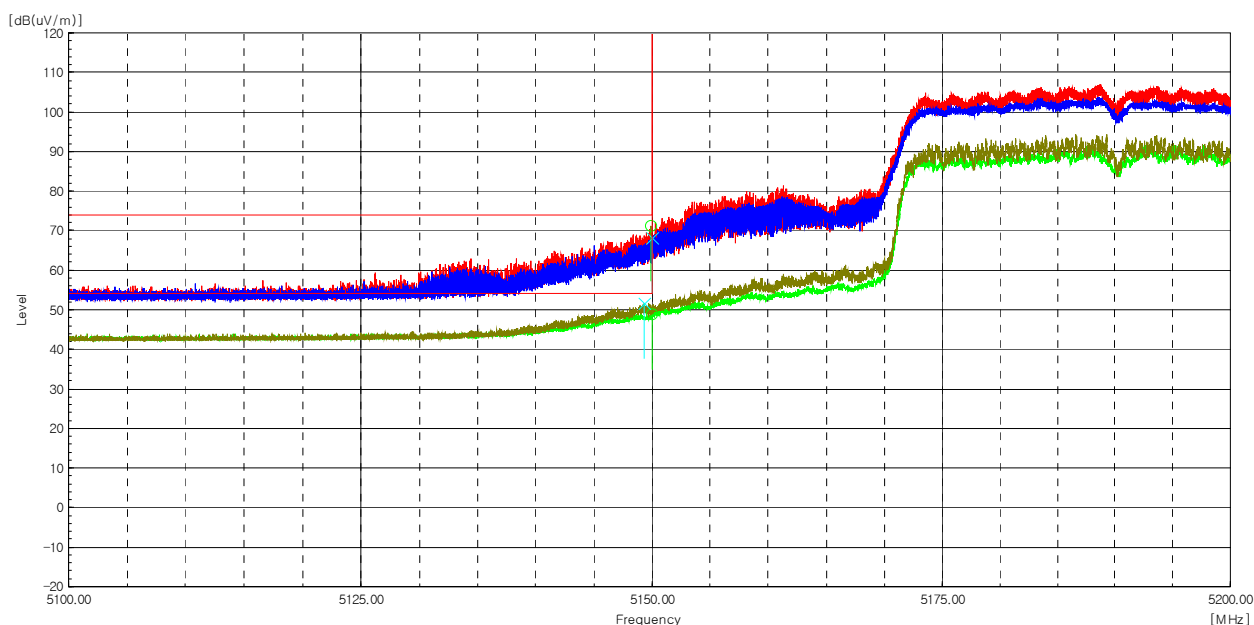
No Peak Found

Remarks

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



Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38

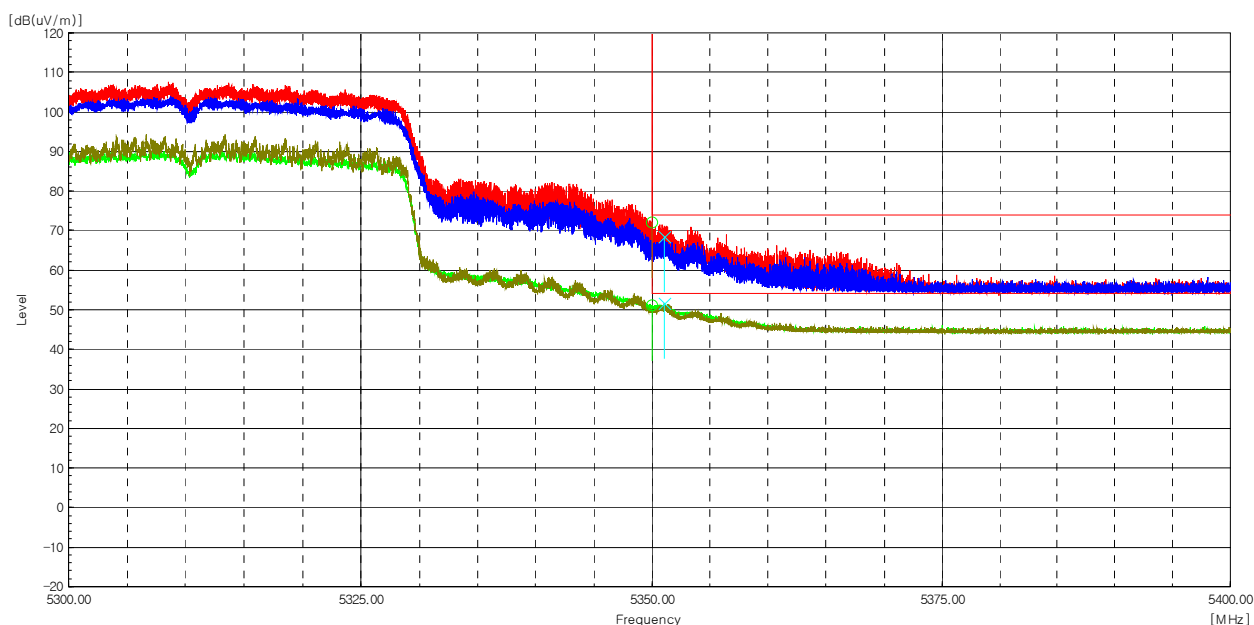


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.88	H	68.60	2.60	-----	71.20	-----	74.00	-----	2.80	-----	Peak
5 149.95	H	46.40	2.60	0.21	-----	49.21	-----	54.00	-----	4.79	Average
5 149.99	V	65.50	2.60	-----	68.10	-----	74.00	-----	5.90	-----	Peak
5 149.30	V	49.00	2.60	0.21	-----	51.81	-----	54.00	-----	2.19	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 350.04	H	68.50	3.50	-----	72.00	-----	74.00	-----	2.00	-----	Peak
5 350.04	H	47.70	3.50	0.21	-----	51.41	-----	54.00	-----	2.59	Average
5 351.07	V	64.90	3.50	-----	68.40	-----	74.00	-----	5.60	-----	Peak
5 351.08	V	48.30	3.50	0.21	-----	52.01	-----	54.00	-----	1.99	Average

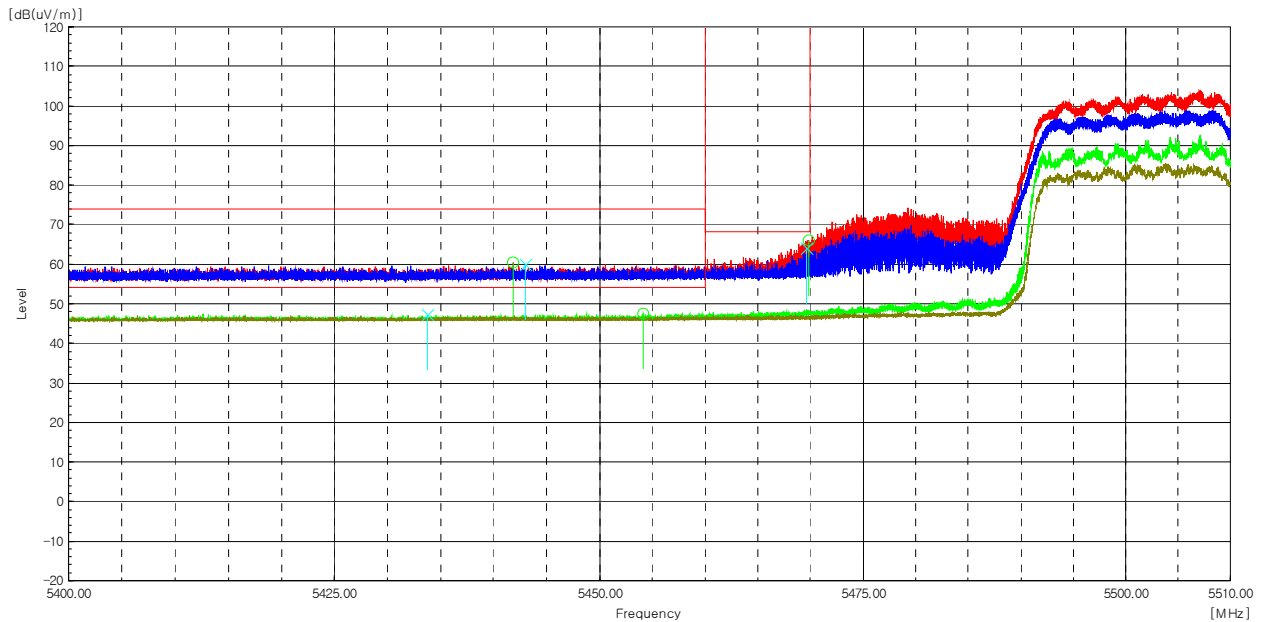
Radiated Restricted Band Edge Plot



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Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102

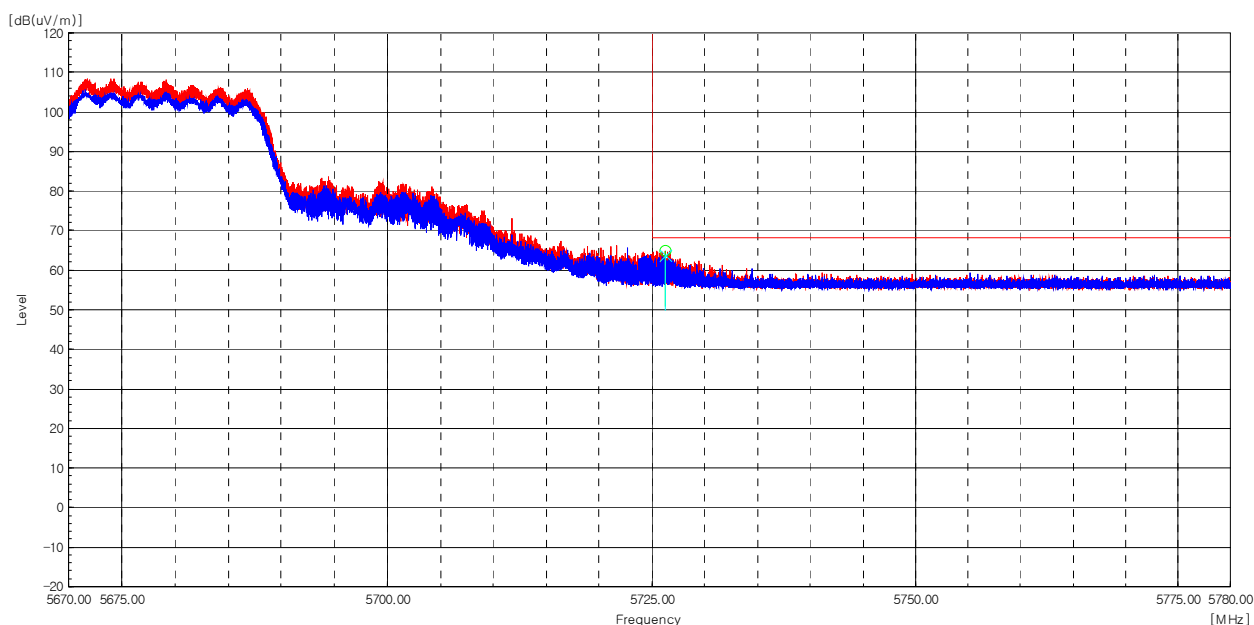


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 458.30	H	56.10	3.70	-----	59.80	-----	74.00	-----	14.20	-----	Peak
5 459.58	H	42.30	3.70	0.21	-----	46.21	-----	54.00	-----	7.79	Average
5 457.82	V	56.30	3.70	-----	60.00	-----	74.00	-----	14.00	-----	Peak
5 452.40	V	42.30	3.60	0.21	-----	46.11	-----	54.00	-----	7.89	Average
5 469.99	H	62.80	3.70	-----	66.50	-----	68.20	-----	1.70	-----	Peak
5 469.72	V	59.90	3.70	-----	63.60	-----	68.20	-----	4.60	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 670 MHz
Channel :	134

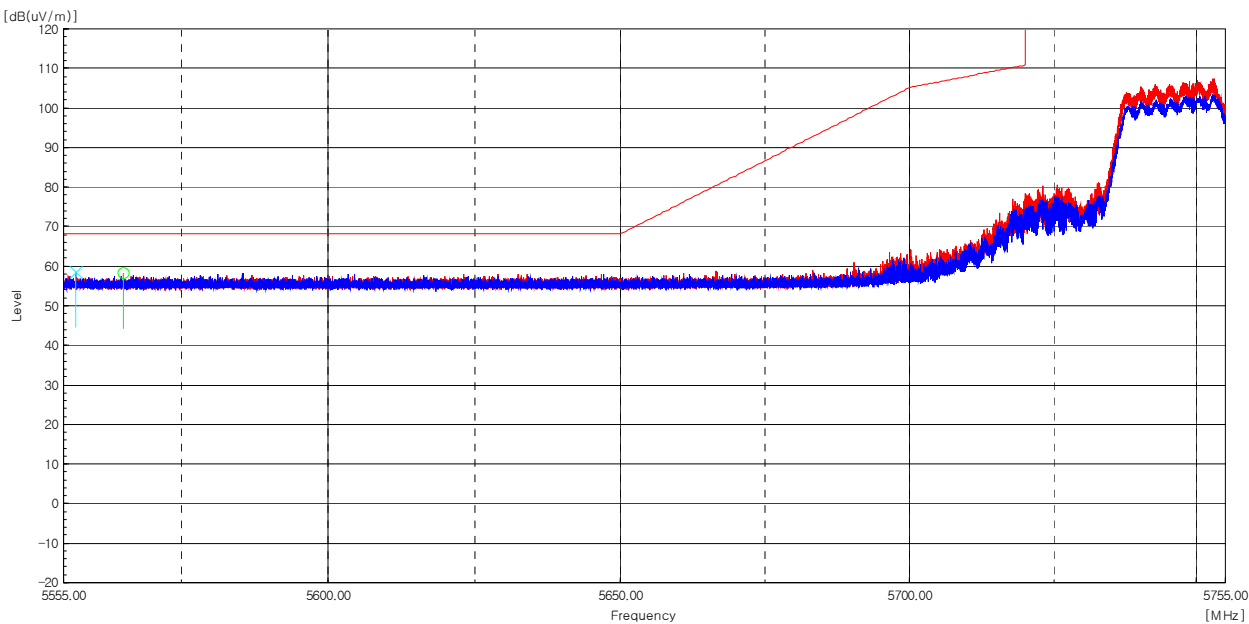


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 726.29	H	60.50	4.50	-----	65.00	-----	68.20	-----	3.20	-----	Peak
5 726.28	V	59.20	4.50	-----	63.70	-----	68.20	-----	4.50	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 755 MHz
Channel :	151



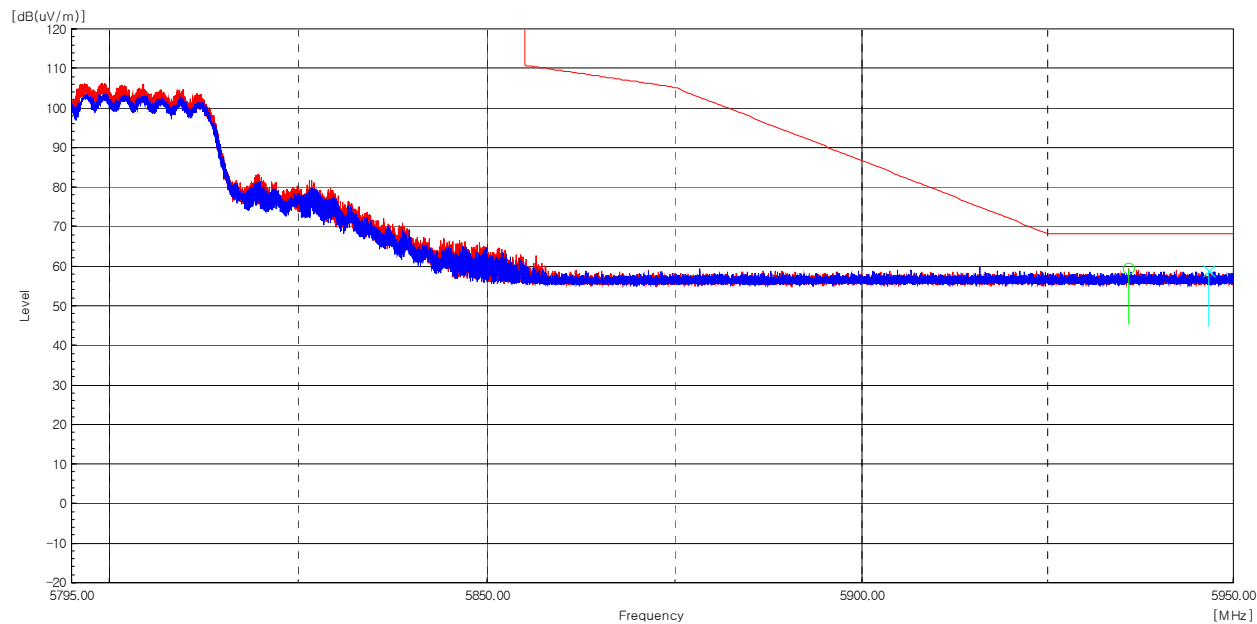
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 795 MHz
Channel :	159



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot

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Test mode : Transmitter, 802.11ac_VHT40

The requirements are:

☒ Complies

Test Data**Ch.38(5 190 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 378.63	H	55.40	10.80	-----	66.20	-----	68.20	-----	2.00	-----	Peak
10 378.84	V	53.60	10.80	-----	64.40	-----	68.20	-----	3.80	-----	Peak

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 458.77	H	53.40	11.10	-----	64.50	-----	68.20	-----	3.70	-----	Peak
10 459.35	V	53.40	11.10	-----	64.50	-----	68.20	-----	3.70	-----	Peak

Ch.54(5 270 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 538.48	H	55.70	11.10	-----	66.80	-----	68.20	-----	1.40	-----	Peak
10 538.02	V	54.20	11.10	-----	65.30	-----	68.20	-----	2.90	-----	Peak

Ch.62(5 310 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 618.81	H	54.90	11.20	-----	66.10	-----	74.00	-----	7.90	-----	Peak
10 618.68	H	35.80	11.20	0.34	-----	47.34	-----	54.00	-----	6.66	Average
10 618.16	V	54.00	11.20	-----	65.20	-----	74.00	-----	8.80	-----	Peak
10 618.16	V	36.70	11.20	0.34	-----	48.24	-----	54.00	-----	5.76	Average

Ch.102(5 510 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

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Ch.118(5 590 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
11 179.45	H	46.90	12.00	-----	58.90	-----	74.00	-----	15.10	-----	Peak
11 164.74	H	35.20	11.90	0.34	-----	47.44	-----	54.00	-----	6.56	Average
11 176.02	V	47.00	12.00	-----	59.00	-----	74.00	-----	15.00	-----	Peak
11 184.71	V	35.30	12.00	0.34	-----	47.64	-----	54.00	-----	6.36	Average

Ch.134(5 670 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
No Peak Found											

Ch.142(5 710 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
No Peak Found											

Ch.151(5 755 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
No Peak Found											

Ch.159(5 795 MHz)

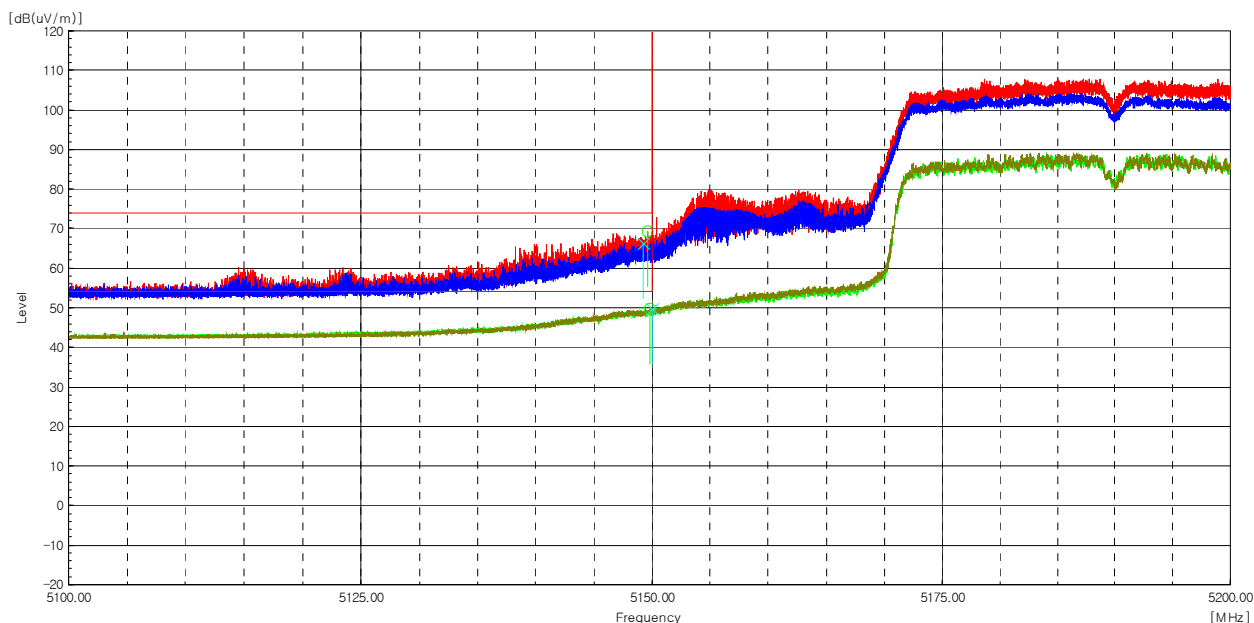
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
No Peak Found											

Remarks

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



Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.62	H	66.80	2.60	-----	69.40	-----	74.00	-----	4.60	-----	Peak
5 149.80	H	47.00	2.60	0.34	-----	49.94	-----	54.00	-----	4.06	Average
5 149.23	V	63.70	2.60	-----	66.30	-----	74.00	-----	7.70	-----	Peak
5 150.00	V	47.00	2.60	0.34	-----	49.94	-----	54.00	-----	4.06	Average

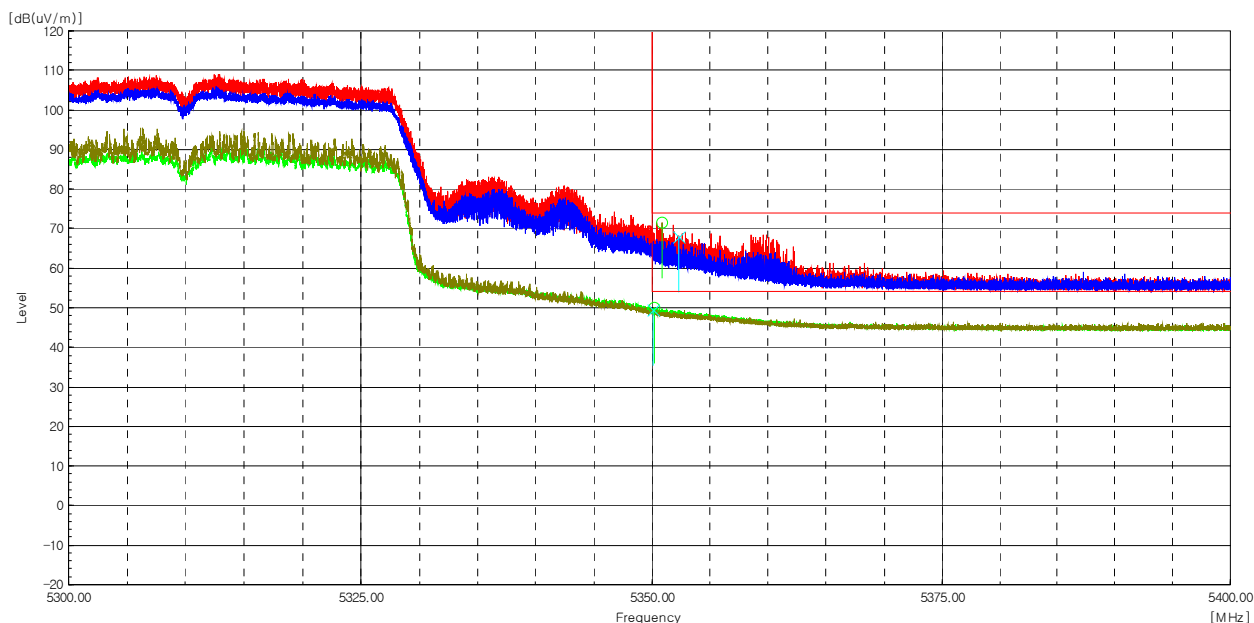
Radiated Restricted Band Edge Plot



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Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 350.83	H	68.10	3.50	-----	71.60	-----	74.00	-----	2.40	-----	Peak
5 350.17	H	46.50	3.50	0.34	-----	50.34	-----	54.00	-----	3.66	Average
5 352.29	V	64.40	3.50	-----	67.90	-----	74.00	-----	6.10	-----	Peak
5 350.13	V	45.90	3.50	0.34	-----	49.74	-----	54.00	-----	4.26	Average

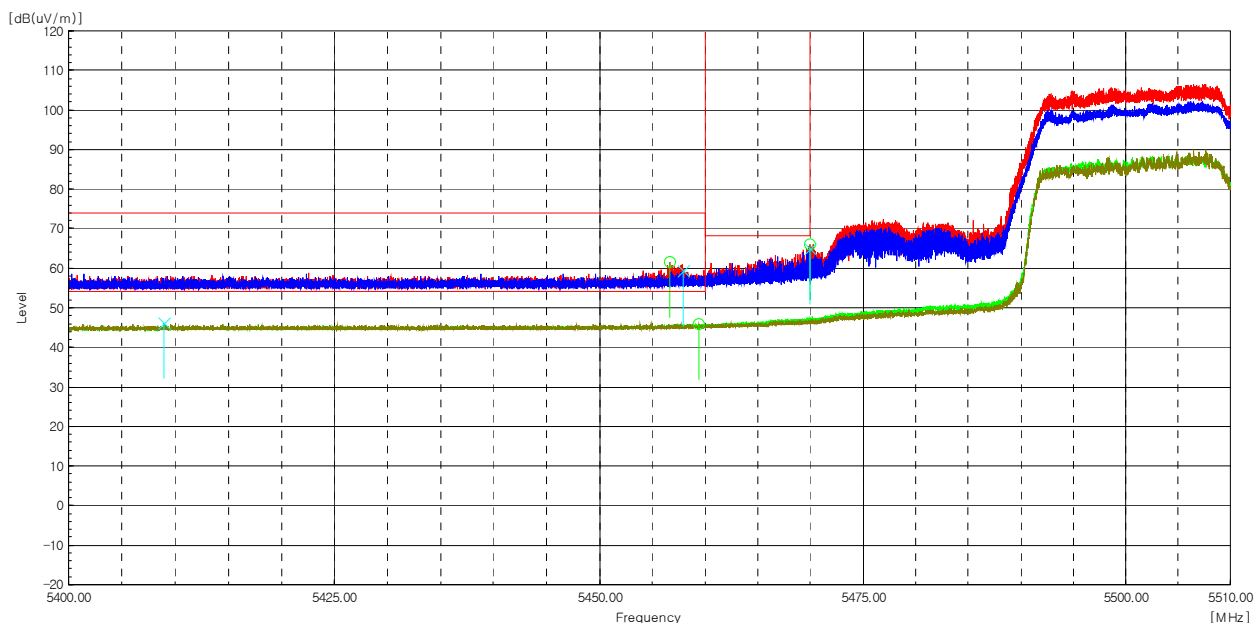
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Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102

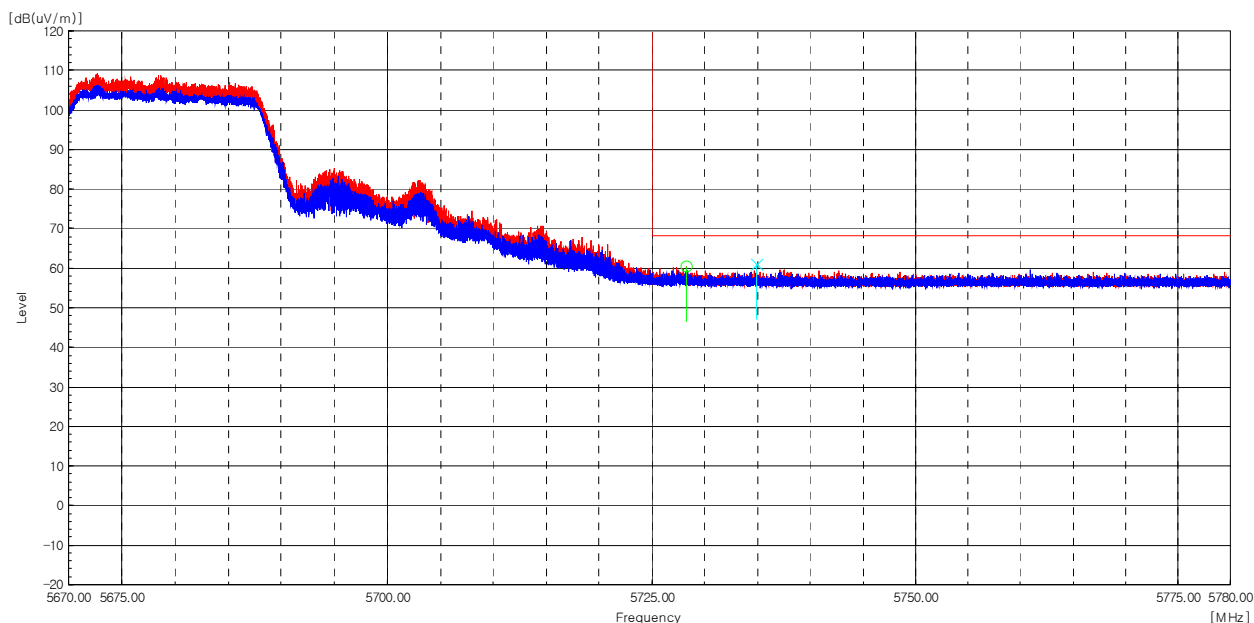


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 456.70	H	57.80	3.70	-----	61.50	-----	74.00	-----	12.50	-----	Peak
5 459.39	H	42.20	3.70	0.34	-----	46.24	-----	54.00	-----	7.76	Average
5 457.94	V	55.60	3.70	-----	59.30	-----	74.00	-----	14.70	-----	Peak
5 408.98	V	42.60	3.40	0.34	-----	46.34	-----	54.00	-----	7.66	Average
5 469.97	H	62.20	3.70	-----	65.90	-----	68.20	-----	2.30	-----	Peak
5 469.99	V	61.10	3.70	-----	64.80	-----	68.20	-----	3.40	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 670 MHz
Channel :	134

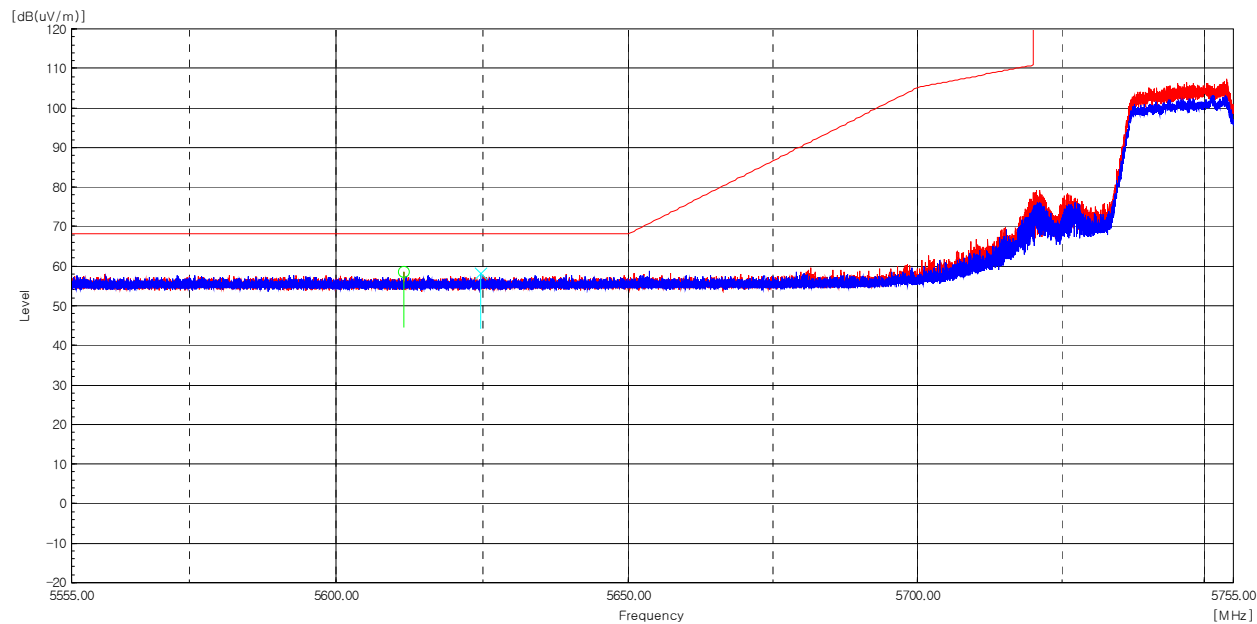


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 728.28	H	55.90	4.50	-----	60.40	-----	68.20	-----	7.80	-----	Peak
5 734.86	V	56.50	4.60	-----	61.10	-----	68.20	-----	7.10	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 755 MHz
Channel :	151



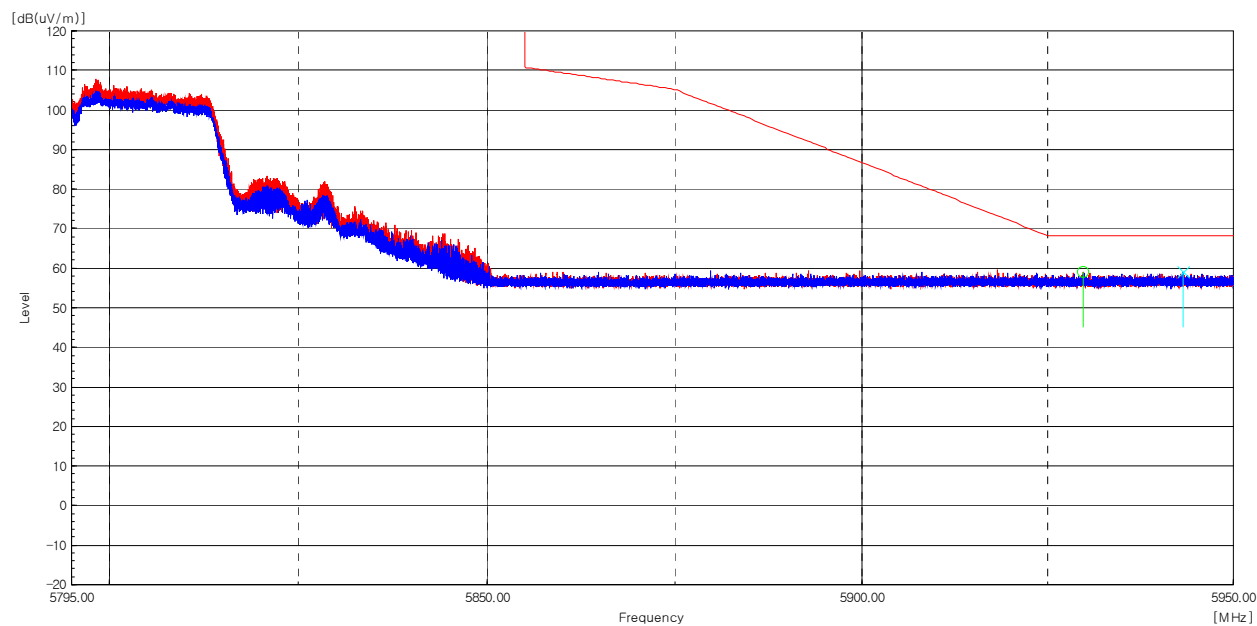
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 795 MHz
Channel :	159



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot

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Test mode : Transmitter, 802.11ac_VHT80

The requirements are:

☒ Complies

Test Data**Ch.42(5 210 MHz)**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 448.61	H	53.50	11.10	-----	64.60	-----	68.20	-----	3.60	-----	Peak
10 444.07	V	52.10	11.10	-----	63.20	-----	68.20	-----	5.00	-----	Peak

Ch.58(5 290 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
10 596.57	H	51.40	11.20	-----	62.60	-----	68.20	-----	5.60	-----	Peak
10 598.71	V	50.30	11.20	-----	61.50	-----	68.20	-----	6.70	-----	Peak

Ch.106(5 530 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Ch.122(5 610 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Ch.138(5 690 MHz)

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

No Peak Found

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Ch.155(5 775 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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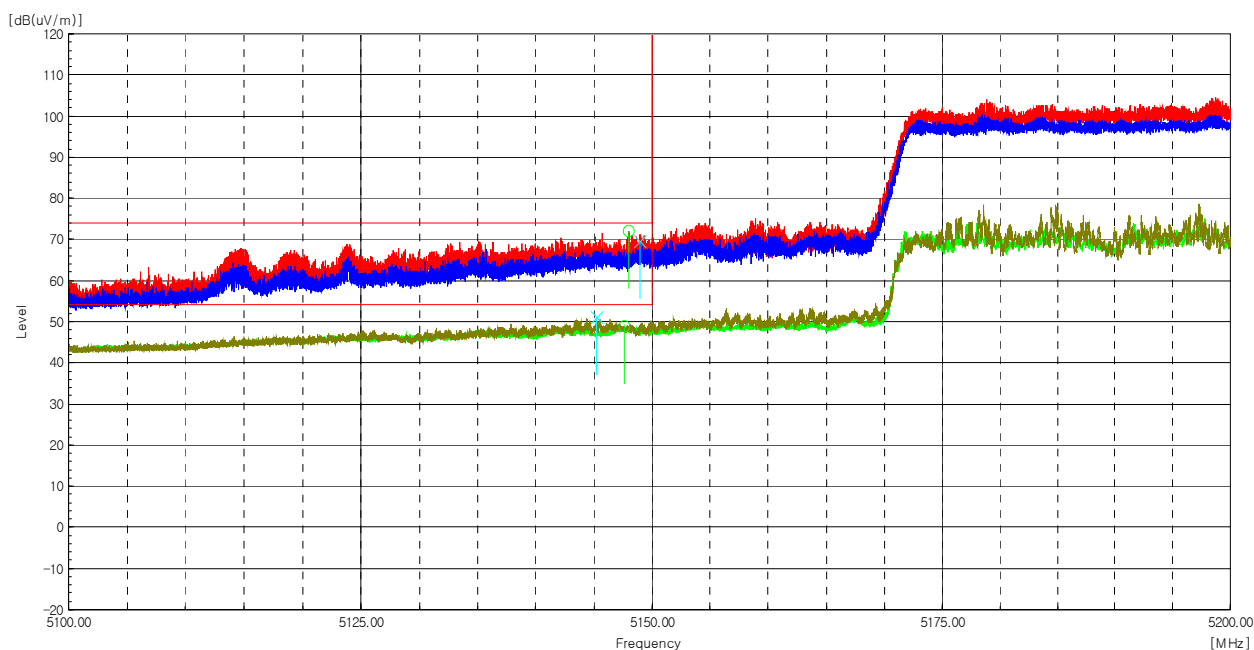
No Peak Found

Remarks

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



Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 210 MHz
Channel :	42

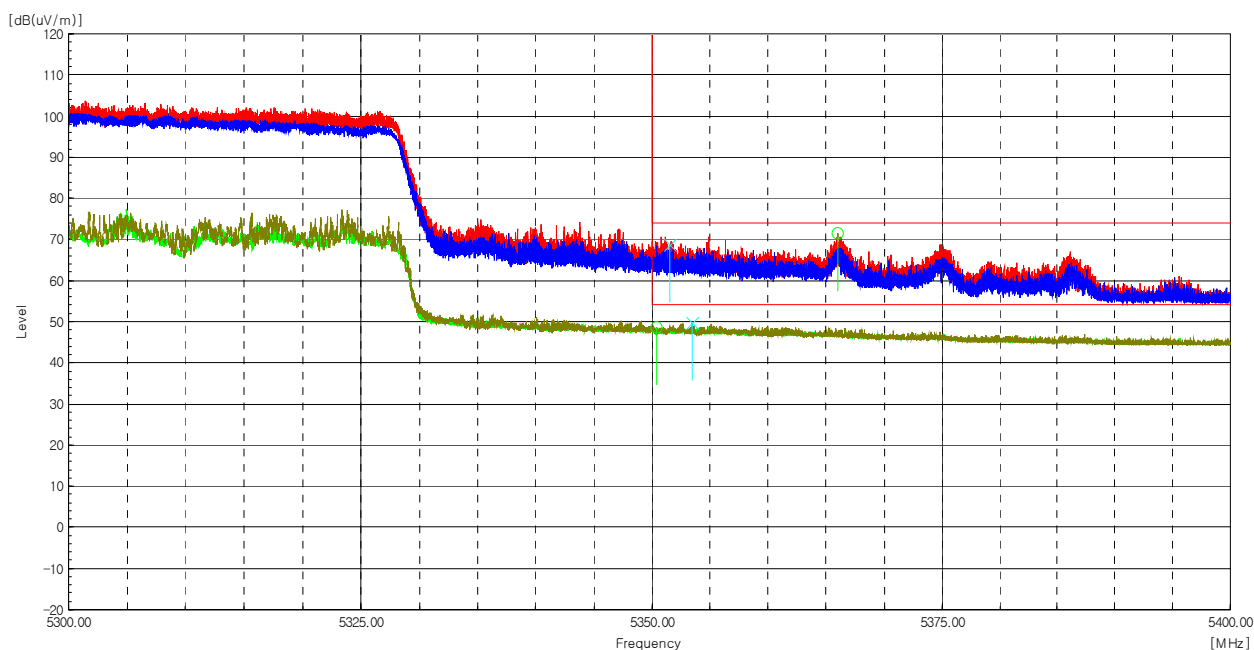


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 148.01	H	69.40	2.60	-----	72.00	-----	74.00	-----	2.00	-----	Peak
5 147.65	H	46.30	2.60	2.35	-----	51.25	-----	54.00	-----	2.75	Average
5 148.90	V	66.90	2.60	-----	69.50	-----	74.00	-----	4.50	-----	Peak
5 145.20	V	47.90	2.60	2.35	-----	52.85	-----	54.00	-----	1.15	Average

Radiated Restricted Band Edge Plot



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



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 365.97	H	68.00	3.50	-----	71.50	-----	74.00	-----	2.50	-----	Peak
5 350.40	H	45.20	3.50	2.35	-----	51.05	-----	54.00	-----	2.95	Average
5 351.51	V	65.30	3.50	-----	68.80	-----	74.00	-----	5.20	-----	Peak
5 353.44	V	46.10	3.50	2.35	-----	51.95	-----	54.00	-----	2.05	Average

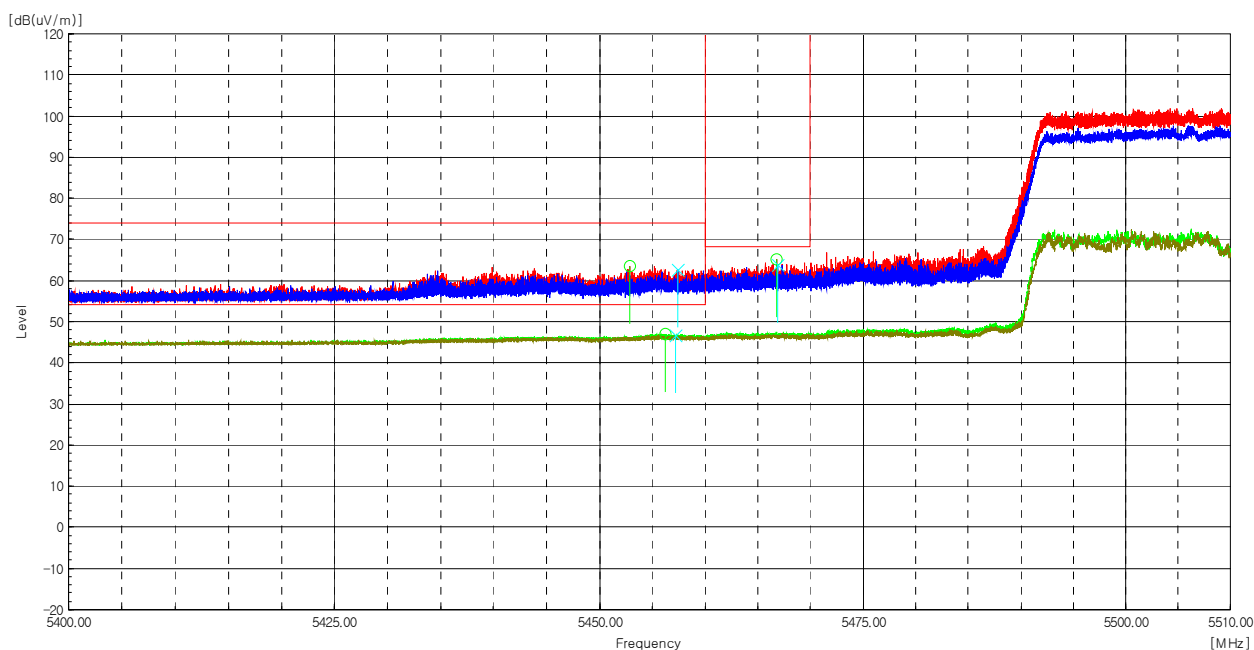
Radiated Restricted Band Edge Plot

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

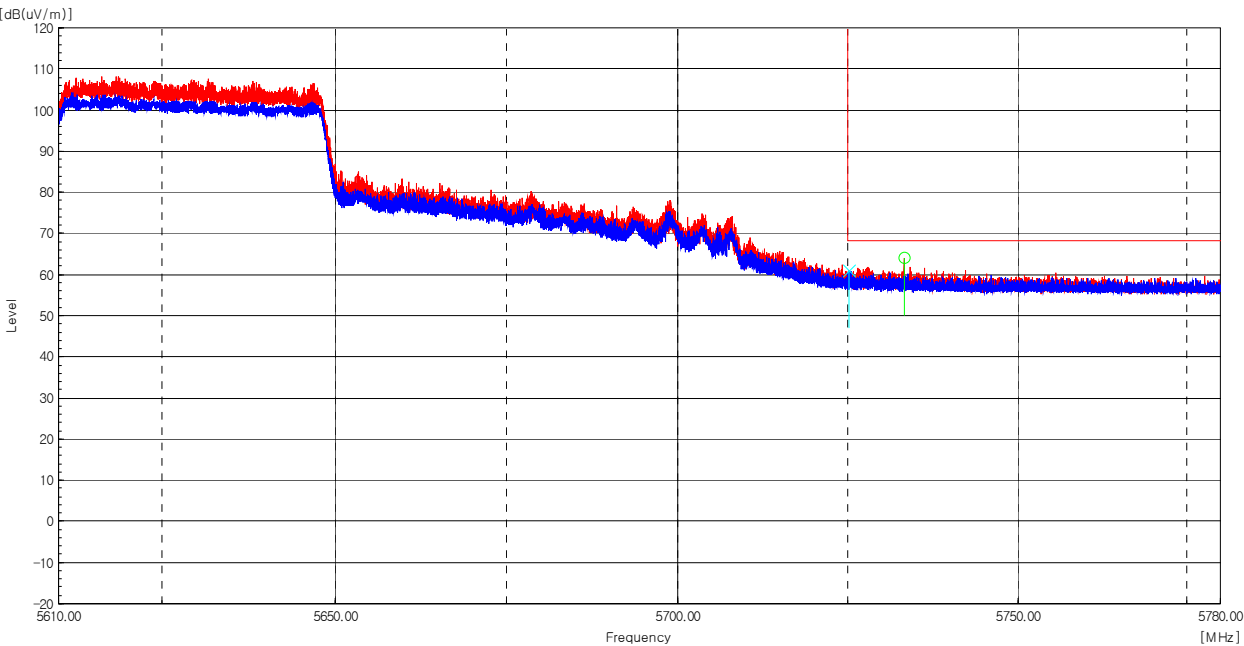


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 452.90	H	59.80	3.60	-----	63.40	-----	74.00	-----	10.60	-----	Peak
5 456.23	H	43.50	3.60	2.35	-----	49.45	-----	54.00	-----	4.55	Average
5 457.42	V	59.10	3.70	-----	62.80	-----	74.00	-----	11.20	-----	Peak
5 457.22	V	43.10	3.70	2.35	-----	49.15	-----	54.00	-----	4.85	Average
5 466.80	H	61.30	3.70	-----	65.00	-----	68.20	-----	3.20	-----	Peak
5 466.85	V	60.10	3.70	-----	63.80	-----	68.20	-----	4.40	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 610 MHz
Channel :	122

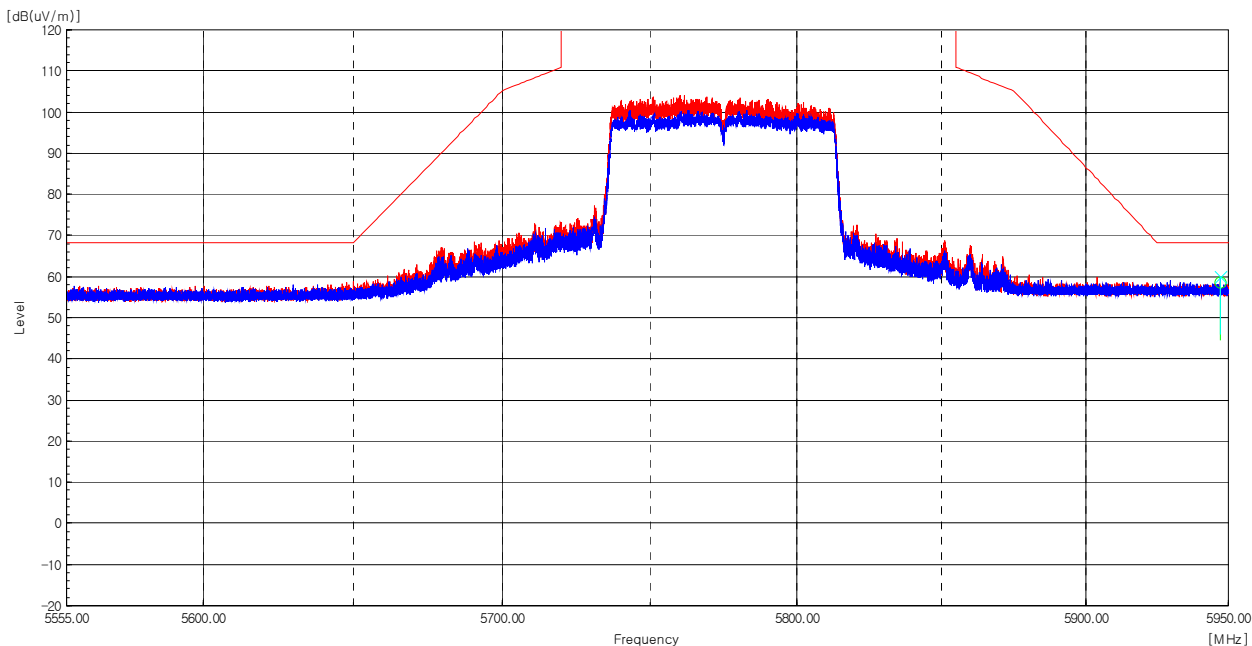


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 733.21	H	59.50	4.60	-----	64.10	-----	68.20	-----	4.10	-----	Peak
5 725.11	V	56.60	4.50	-----	61.10	-----	68.20	-----	7.10	-----	Peak

Radiated Restricted Band Edge Plot



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



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

No Peak Found

Radiated Restricted Band Edge Plot

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4.7 AC Conducted Emissions

Test Location

Shielded Room

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2

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

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

Limit- **15.207(a)**

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

* The level decreases linearly with the logarithm of the frequency.

** A linear average detector is required.

Test Results

The requirements are:

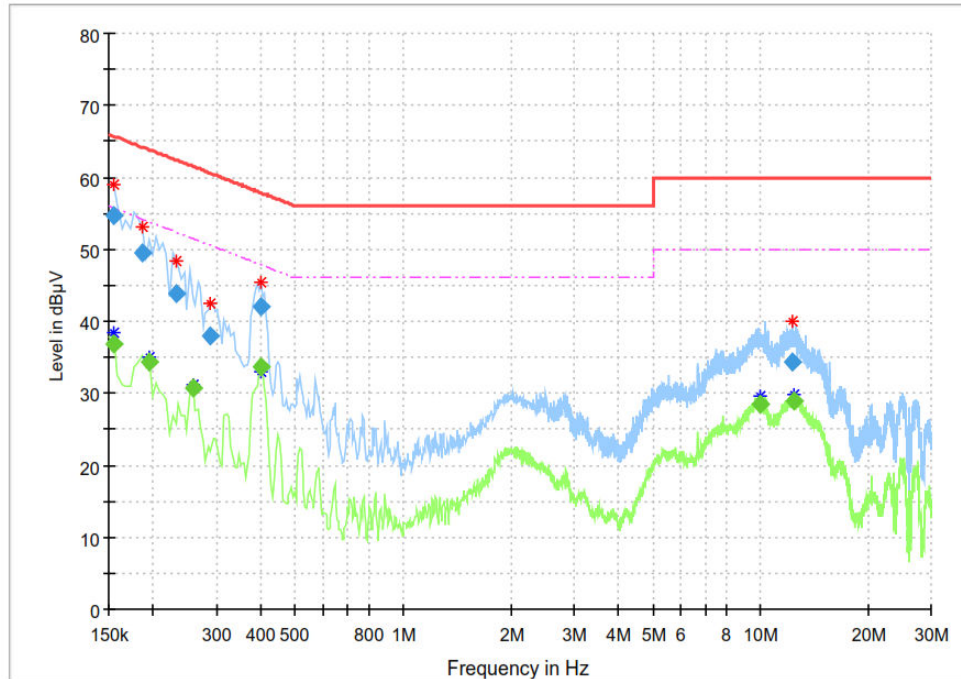
☒ Complies



Test Data

[LINE]

Full Spectrum



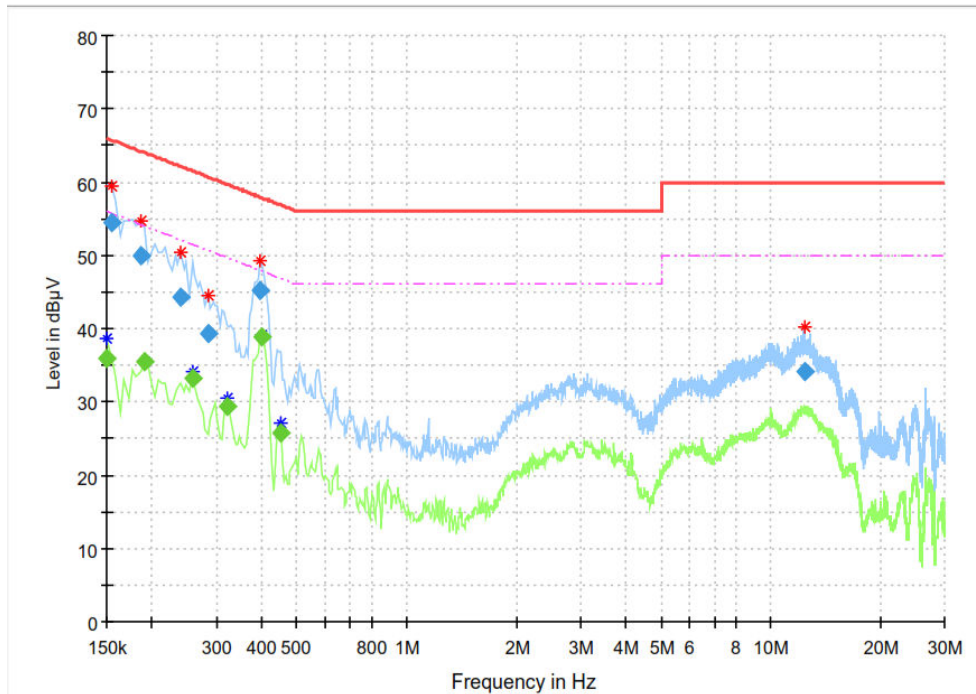
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	---	36.76	55.75	18.99	15000.0	9.000	L1	ON	9.7
0.154500	54.64	---	65.75	11.11	15000.0	9.000	L1	ON	9.7
0.186000	49.42	---	64.21	14.79	15000.0	9.000	L1	ON	10.0
0.195000	---	34.31	53.82	19.51	15000.0	9.000	L1	ON	9.9
0.231000	43.86	---	62.41	18.55	15000.0	9.000	L1	ON	9.8
0.258000	---	30.78	51.50	20.71	15000.0	9.000	L1	ON	9.7
0.289500	38.01	---	60.54	22.53	15000.0	9.000	L1	ON	9.8
0.402000	---	33.71	47.81	14.11	15000.0	9.000	L1	ON	9.9
0.402000	41.96	---	57.81	15.85	15000.0	9.000	L1	ON	9.9
9.987000	---	28.55	50.00	21.45	15000.0	9.000	L1	ON	9.8
12.214500	34.40	---	60.00	25.60	15000.0	9.000	L1	ON	9.8
12.399000	---	28.91	50.00	21.09	15000.0	9.000	L1	ON	9.8



[NEUTRAL]

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	36.02	56.00	19.98	15000.0	9.000	N	ON	9.6
0.154500	54.42	---	65.75	11.33	15000.0	9.000	N	ON	9.7
0.186000	49.97	---	64.21	14.24	15000.0	9.000	N	ON	10.1
0.190500	---	35.40	54.02	18.62	15000.0	9.000	N	ON	10.1
0.240000	44.20	---	62.10	17.89	15000.0	9.000	N	ON	9.9
0.258000	---	33.16	51.50	18.33	15000.0	9.000	N	ON	9.8
0.285000	39.24	---	60.67	21.43	15000.0	9.000	N	ON	9.9
0.321000	---	29.39	49.68	20.29	15000.0	9.000	N	ON	9.9
0.397500	45.10	---	57.91	12.81	15000.0	9.000	N	ON	10.0
0.402000	---	38.89	47.81	8.92	15000.0	9.000	N	ON	10.0
0.451500	---	25.81	46.85	21.04	15000.0	9.000	N	ON	10.0
12.435000	34.19	---	60.00	25.81	15000.0	9.000	N	ON	9.9

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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY46471102	2023-12-05	2024-12-05
					2024-11-26	2025-11-26
2	Signal Analyzer	Agilent	N9020A	MY48011598	2024-09-19	2025-09-19
3	Signal Generator	Rohde & Schwarz	SMB100A	175528	2024-03-21	2025-03-21
4	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2024-04-29	2025-04-29
5	BILOG ANTENNA	TESEQ	CBL6111D	60654	2023-08-21	2025-08-21
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2024-04-15	2026-04-15
7	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2024-07-31	2025-07-31
8	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2024-07-31	2025-07-31
9	Spectrum Analyzer	R&S	FSV40	101574	2024-01-15	2025-01-15
10	PRE AMPLIFIER	HP	8449B	3008A00620	2024-04-11	2025-04-11
11	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2024-04-16	2025-04-16
12	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078894	2024-11-13	2025-11-13
13	HORN ANTENNA	SCHWARZBECK	BBHA9170	1153	2024-10-18	2025-10-18
14	LOW NOISE AMPLIFIER	TESTEK	TK-PA1840H	210124-L	2024-10-18	2025-10-18
15	Band Reject Filter	Micro Tronics	BRM50716	G184	2023-12-01	2024-12-01
					2024-11-25	2025-11-25
16	EMI Test Receiver	R&S	ESR3	102826	2024-04-29	2025-04-29
17	LISN	R&S	ENV216	102698	2024-04-29	2025-04-29
18	Temp&Humi Chamber	ESPEC CORP.	SH-242	93012243	2024-05-03	2025-05-03
19	Signal Analyzer	Agilent	N9020A	MY50510240	2024-07-05	2025-07-05

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	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2024-10-31
2	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S148	2024-10-31
3	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2024-03-05
4	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2024-03-05
5	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	L-5D2W	N/A	2024-03-05
6	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2023-06-28
7	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	J0970749	2023-06-28
8	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2023-06-28
9	RF Cable (18 GHz - 40 GHz Radiated)	Sensorview Co., LTD	9S40	TPC2204060009	2023-06-28
10	RF Cable (18 GHz - 40 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2023-06-28

-END-