



4.5 Frequency Stability

Test Procedures

KDB 789033 – Section A.3

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -20 °C and +50 °C(Declaration by the Manufacturer). The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel’s center frequency was recorded.

Data for the worst case channel is shown below.

Measured Frequency Error (kHz)						
Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)				
		5 180	5 200	5 240	5 260	5 300
5.0	-10	31 289	31 912	32 595	30 649	31 541
5.0	0	5 437	5 394	6 679	4 454	4 722
5.0	10	-15 461	-15 208	-15 011	-16 410	-16 138
5.0	20(Ref)	-34 533	-34 199	-33 833	-35 161	-35 425
5.0	30	-49 227	-49 122	-49 307	-50 337	-50 737
5.0	40	-49 169	-49 333	-49 535	-50 014	-50 469
5.0	50	-48 593	-48 818	-49 202	-49 303	-49 621
4.25	20(Ref)	-34 060	-33 970	-34 020	-35 276	-35 449
5.75	20(Ref)	-34 273	-34 137	-33 785	-35 368	-35 359

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Measured Frequency Error (kHz)						
Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)				
		5 320	5 500	5 600	5 700	5 720
5.0	-10	31 620	33 843	32 364	32 385	32 585
5.0	0	5 170	7 051	4 694	4 063	4 232
5.0	10	-16 287	-15 030	-17 799	-18 891	-18 736
5.0	20(Ref)	-35 363	-35 652	-37 930	-39 052	-38 910
5.0	30	-50 808	-52 011	-54 153	-55 371	-55 399
5.0	40	-50 663	-52 068	-53 476	-54 468	-54 594
5.0	50	-49 749	-51 429	-52 286	-53 141	-53 271
4.25	20(Ref)	-35 514	-35 691	-38 087	-38 963	-39 153
5.75	20(Ref)	-35 695	-35 548	-37 843	-39 028	-38 979

Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)		
		5 745	5 785	5 825
5.0	-10	33 583	32 999	32 808
5.0	0	4 368	4 277	3 967
5.0	10	-18 465	-19 002	-19 282
5.0	20(Ref)	-38 710	-39 489	-40 200
5.0	30	-55 271	-56 113	-56 604
5.0	40	-54 642	-55 367	-55 788
5.0	50	-53 536	-53 903	-54 319
4.25	20(Ref)	-38 906	-39 499	-39 872
5.75	20(Ref)	-38 821	-39 775	-40 284

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

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4.6 Unwanted Emissions

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 789033 - Section G

ANSI C63.10-2013 – Section 12.7

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

a) RBW = 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHzb) VBW $\geq$ RBW

c) Detector = CISPR Quasi-peak

d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = Peak

d) Sweep time = auto

e) Trace mode = max hold

- Average (duty cycle $\geq 98\%$)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

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- Average (duty cycle < 98%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW $\geq 3 \times$ RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

If power averaging (RMS) mode, then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.

Test mode	Duty Cycle Factor (dB)
802.11a	0.09
802.11n_HT20	0.10
802.11n_HT40	0.21
802.11ac_VHT20	0.20
802.11ac_VHT40	0.34
802.11ac_VHT80	2.35



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Limit

1. UNII 1, 2A : All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. UNII 2C : All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. UNII 3 : All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

* E.I.R.P -27 dBm/MHz

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2, \text{ for } d = 3\text{m}$$

4. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

- 15.209(a)

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

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5. FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
¹ 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	² Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

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

² Above 38.6

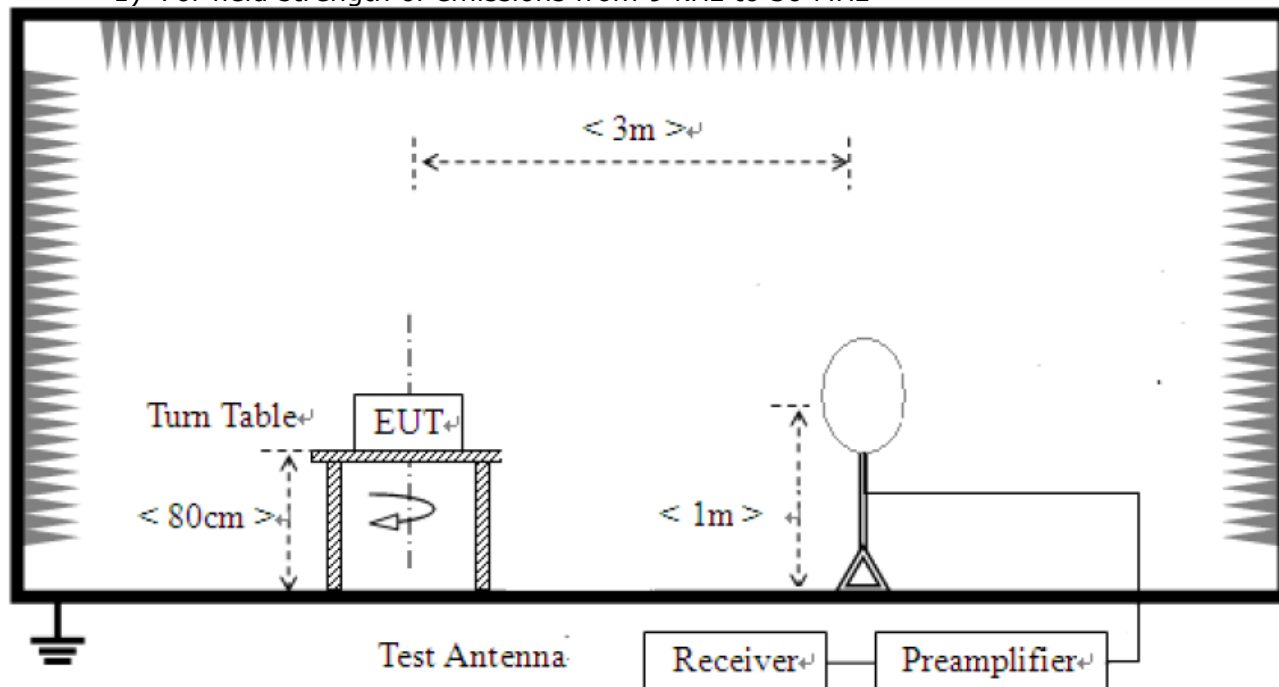
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using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

Note :

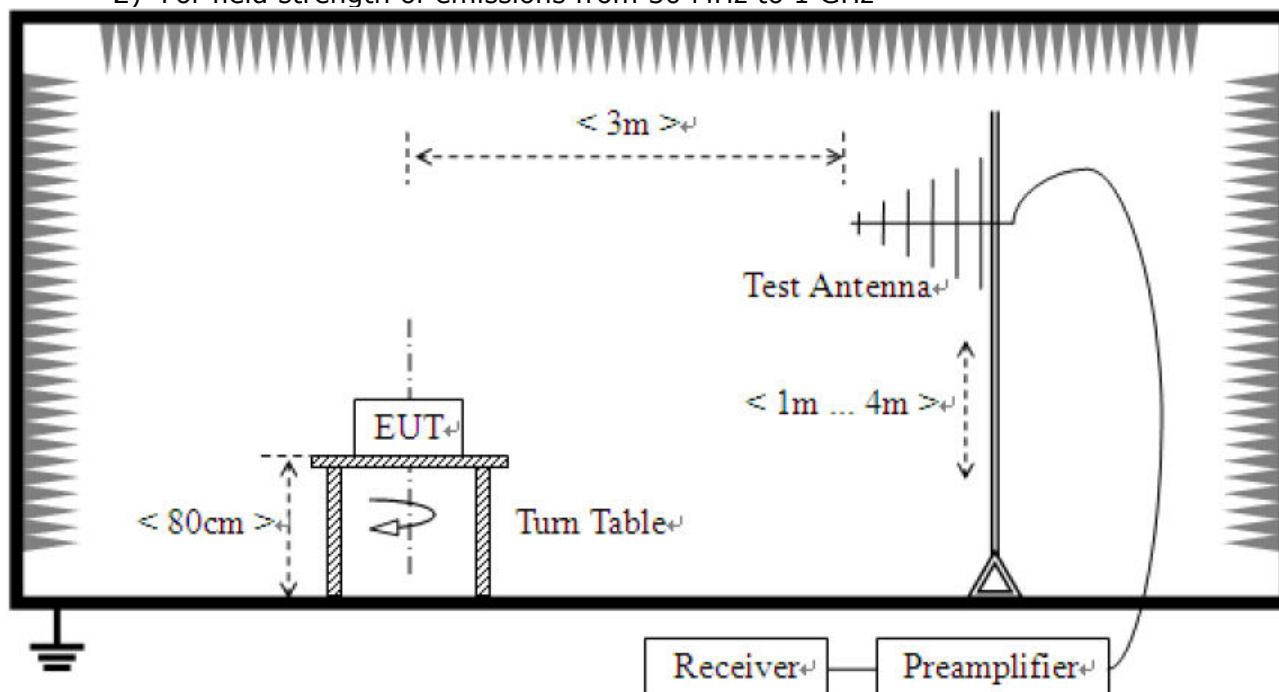
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

Test Setup:

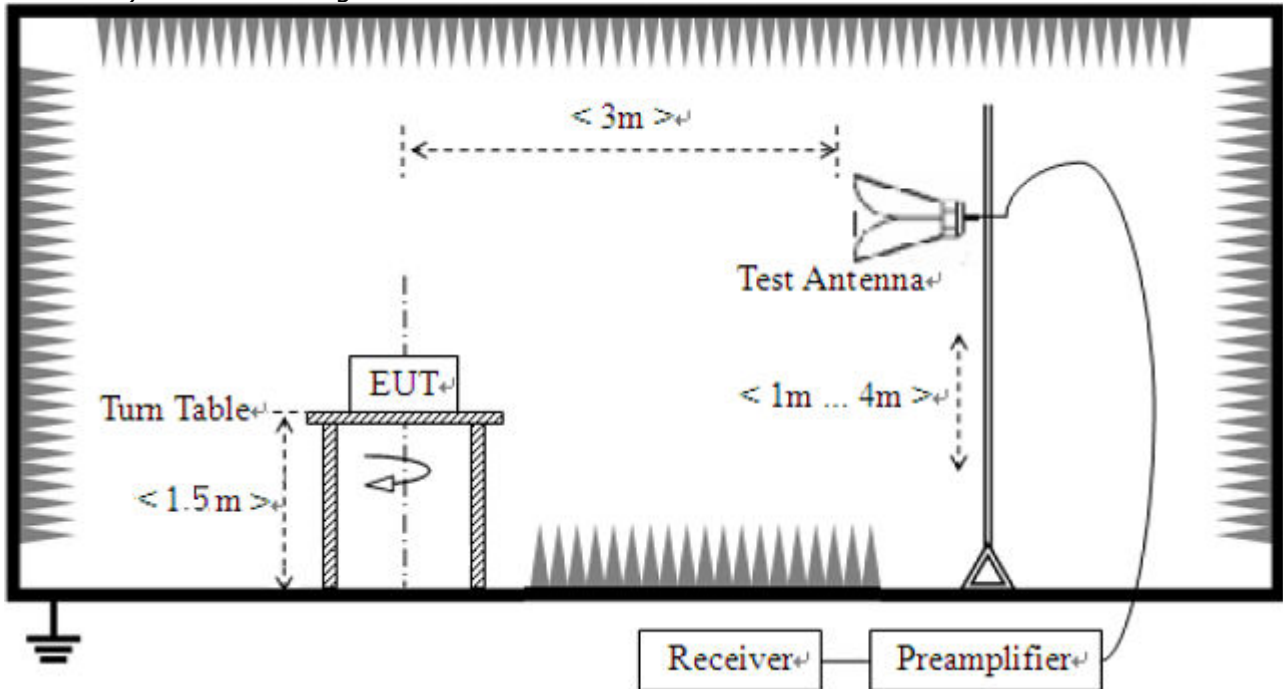
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



Test Mode

We have done all test mode.

The worst case antenna configuration and Test mode are determined to be as follows.

802.11a mode : ANT1, ANT2

802.11n mode : ANT1 + ANT2 (MIMO)

802.11ac mode : ANT2 + ANT2 (MIMO)

So the results are only attached worst cases.



Test Results

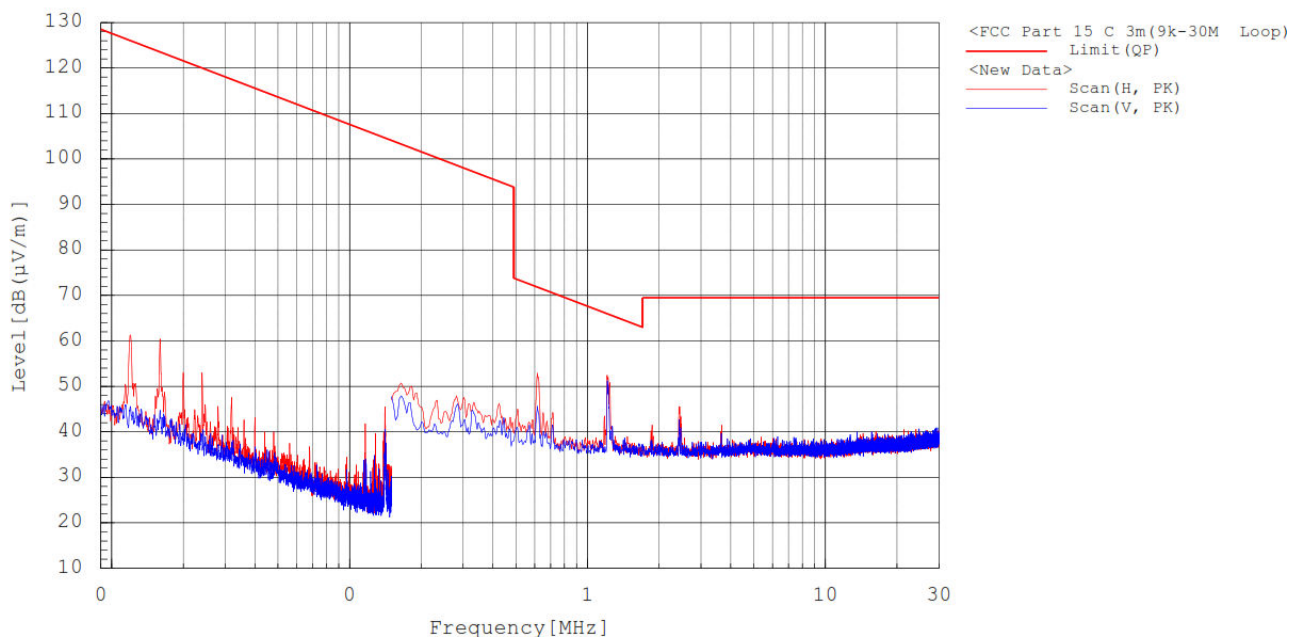
1) 9 kHz to 30 MHz

Test mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
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The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

- 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.
- Result = Reading + c.f(Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
- This data is the Peak(PK) value.



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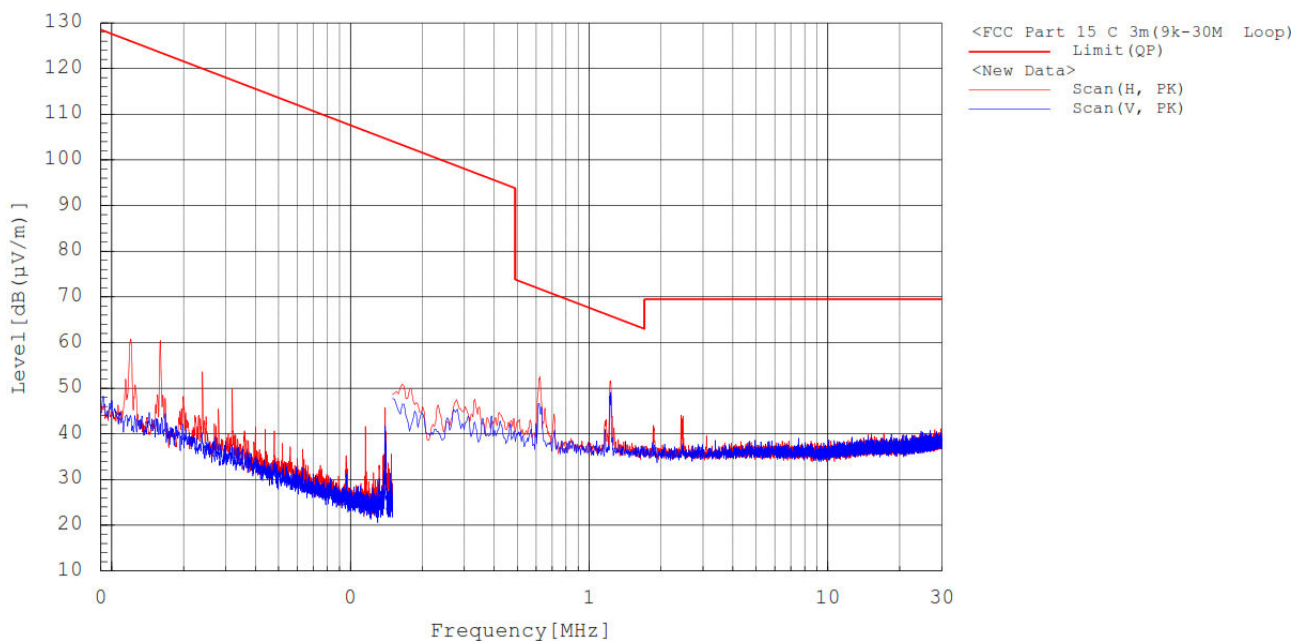
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Test mode : Transmitter (simultaneous transmissions DSS+ NII)

The requirements are:

☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
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The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

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. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.



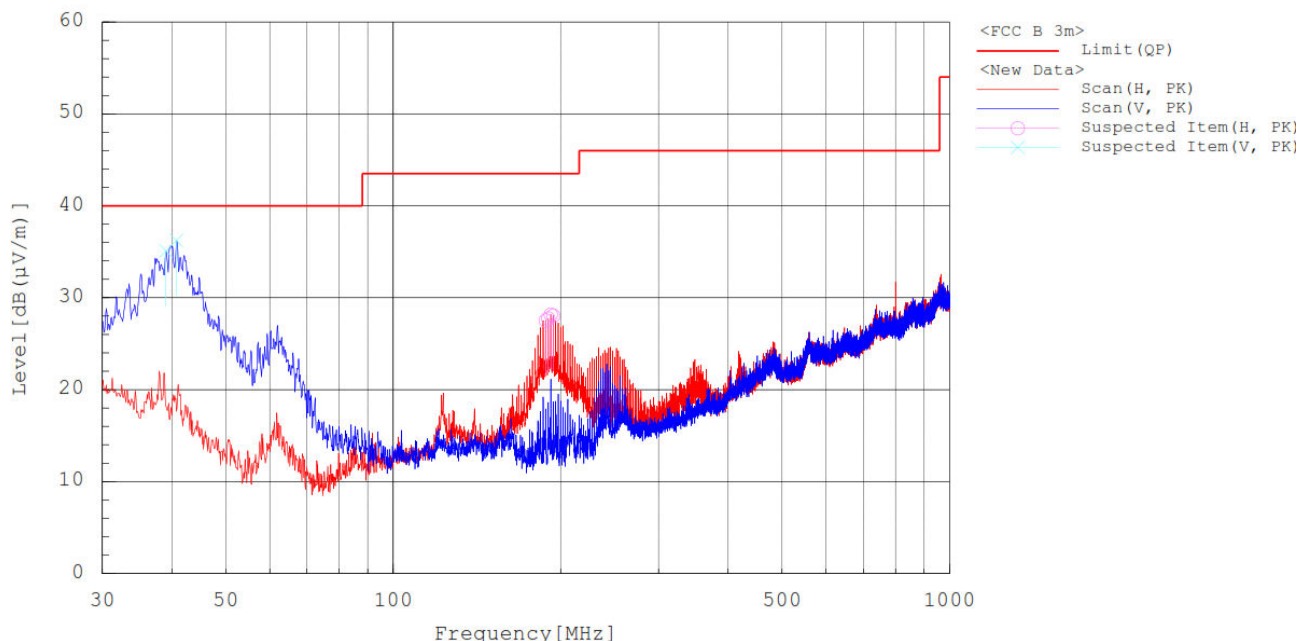
2) 30 MHz to 1 GHz

Test mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		PK		PK	QP	QP-PK			
			[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]	
1	39.021	V	46.4	-11.3	35.1	40.0	4.9	100.0	356.6	
2	40.767	V	48.4	-12.2	36.2	40.0	3.8	100.0	358.8	
3	188.013	H	42.9	-15.4	27.5	43.5	16.0	99.9	0.0	
4	189.953	H	43.1	-15.4	27.7	43.5	15.8	200.1	356.4	
5	191.990	H	43.3	-15.2	28.1	43.5	15.4	99.9	357.9	
6	194.027	H	43.1	-15.1	28.0	43.5	15.5	99.9	359.6	

Remark :

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. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

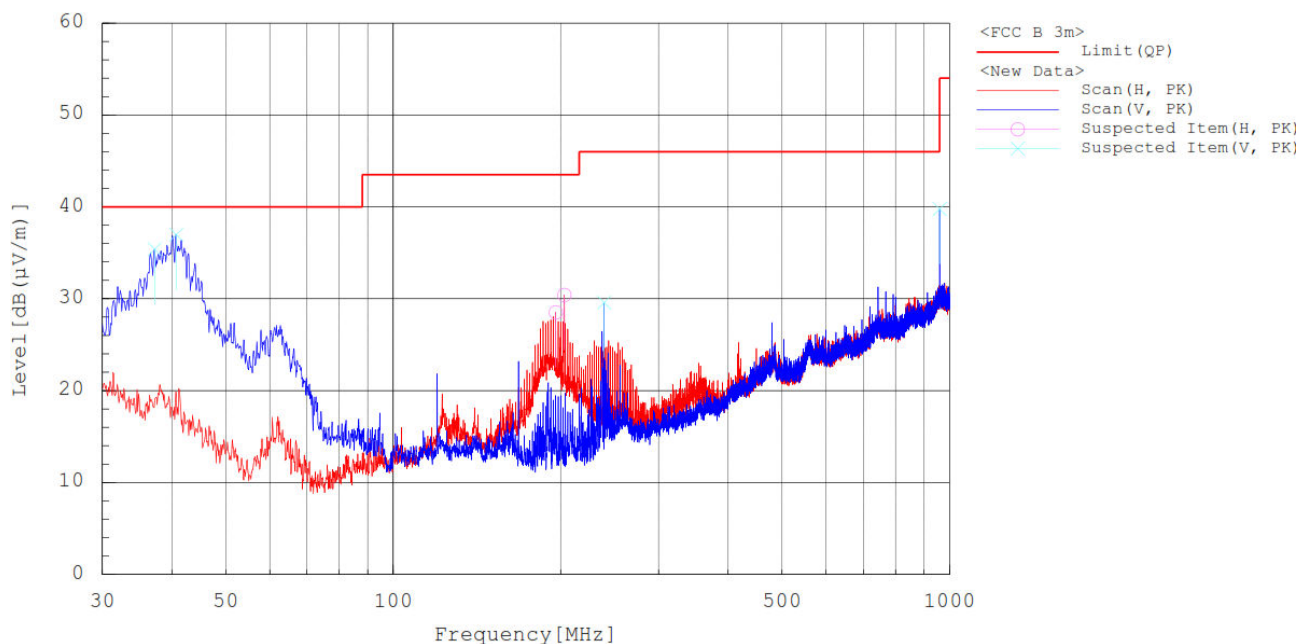


Test mode : Transmitter (simultaneous transmissions DSS + NII)

The requirements are:

☒ Complies

Test Data



Spectrum Selection

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		PK		PK	QP	QP-PK			
			[dB (μV)]	[dB (l/m)]	[dB (μV/m)]	[dB (μV/m)]	[dB]	[cm]	[deg]	
1	37.275	V	45.7	-10.3	35.4	40.0	4.6	99.9	205.3	
2	40.767	V	49.2	-12.2	37.0	40.0	3.0	99.9	205.3	
3	195.967	H	43.6	-15.1	28.5	43.5	15.0	100.0	359.2	
4	203.048	H	45.5	-15.1	30.4	43.5	13.1	199.9	355.9	
5	239.423	V	42.3	-12.7	29.6	46.0	16.4	99.9	300.5	
6	960.036	V	34.2	5.6	39.8	54.0	14.2	99.9	212.3	

Remark :

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. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.



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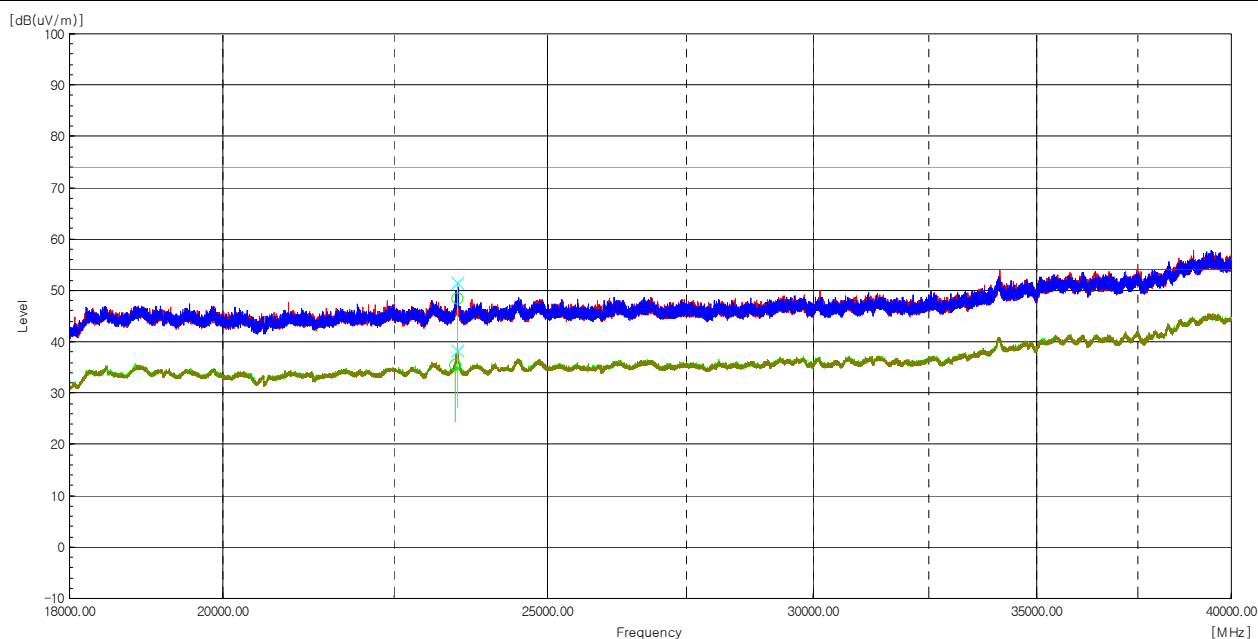
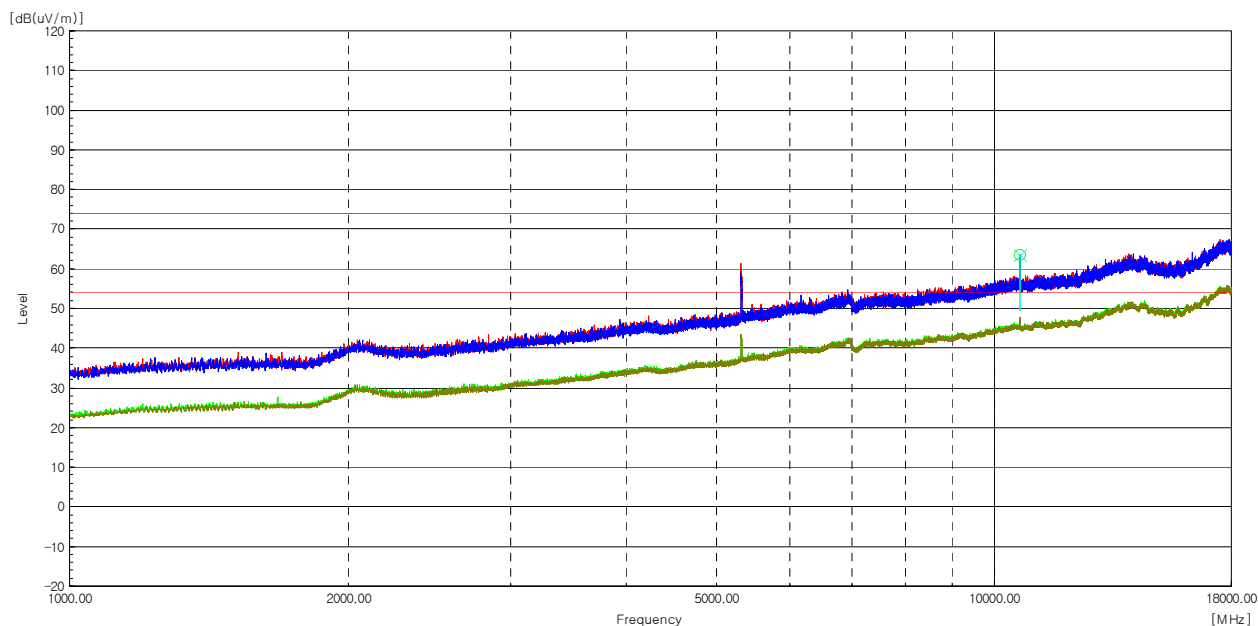
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3) above 1 GHz

The requirements are:

☒ Complies

Test Data



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Test mode : Transmitter, 802.11a-ANT1

The requirements are:

☒ Complies

Test Data**Ch.36(5 180 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
10 356.31	H	55.20	10.70	-----	65.90	-----	68.20	-----	2.30	-----	Peak
10 361.65	V	53.80	10.80	-----	64.60	-----	68.20	-----	3.60	-----	Peak

Ch.40(5 200 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
10 400.03	H	54.10	10.90	-----	65.00	-----	68.20	-----	3.20	-----	Peak
10 395.52	V	54.00	10.90	-----	64.90	-----	68.20	-----	3.30	-----	Peak

Ch.48(5 240 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
10 481.93	H	54.20	11.10	-----	65.30	-----	68.20	-----	2.90	-----	Peak
10 475.00	V	52.70	11.10	-----	63.80	-----	68.20	-----	4.40	-----	Peak

Ch.5 2(5 260 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
10 516.74	H	54.00	11.10	-----	65.10	-----	68.20	-----	3.10	-----	Peak
10 520.90	V	52.20	11.10	-----	63.30	-----	68.20	-----	4.90	-----	Peak

Ch.60(5 300 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
10 598.46	H	52.90	11.20	-----	64.10	-----	68.20	-----	4.10	-----	Peak
10 596.59	V	52.70	11.20	-----	63.90	-----	68.20	-----	4.30	-----	Peak

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Ch.64(5 320 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
10 641.50	H	51.90	11.20	-----	63.10	-----	74.00	-----	10.90	-----	Peak
10 642.52	H	35.70	11.20	0.09	-----	46.99	-----	54.00	-----	7.01	Average
10 636.56	V	50.40	11.20	-----	61.60	-----	74.00	-----	12.40	-----	Peak
10 641.76	V	36.10	11.20	0.09	-----	47.39	-----	54.00	-----	6.61	Average

Ch.100(5 500 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
11 002.88	H	46.80	11.60	-----	58.40	-----	74.00	-----	15.60	-----	Peak
11 003.27	H	34.00	11.60	0.09	-----	45.69	-----	54.00	-----	8.31	Average
11 001.91	V	47.20	11.60	-----	58.80	-----	74.00	-----	15.20	-----	Peak
11 005.52	V	34.60	11.60	0.09	-----	46.29	-----	54.00	-----	7.71	Average

Ch.120(5 600 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
11 197.81	H	46.40	12.00	-----	58.40	-----	74.00	-----	15.60	-----	Peak
11 196.44	H	34.40	12.00	0.09	-----	46.49	-----	54.00	-----	7.51	Average
11 197.14	V	46.60	12.00	-----	58.60	-----	74.00	-----	15.40	-----	Peak
11 208.54	V	35.20	12.10	0.09	-----	47.39	-----	54.00	-----	6.61	Average

Ch.140(5 700 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.144(5 720 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.149(5 745 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

**CTK Co., Ltd.**

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Ch.157(5 785 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.165(5 825 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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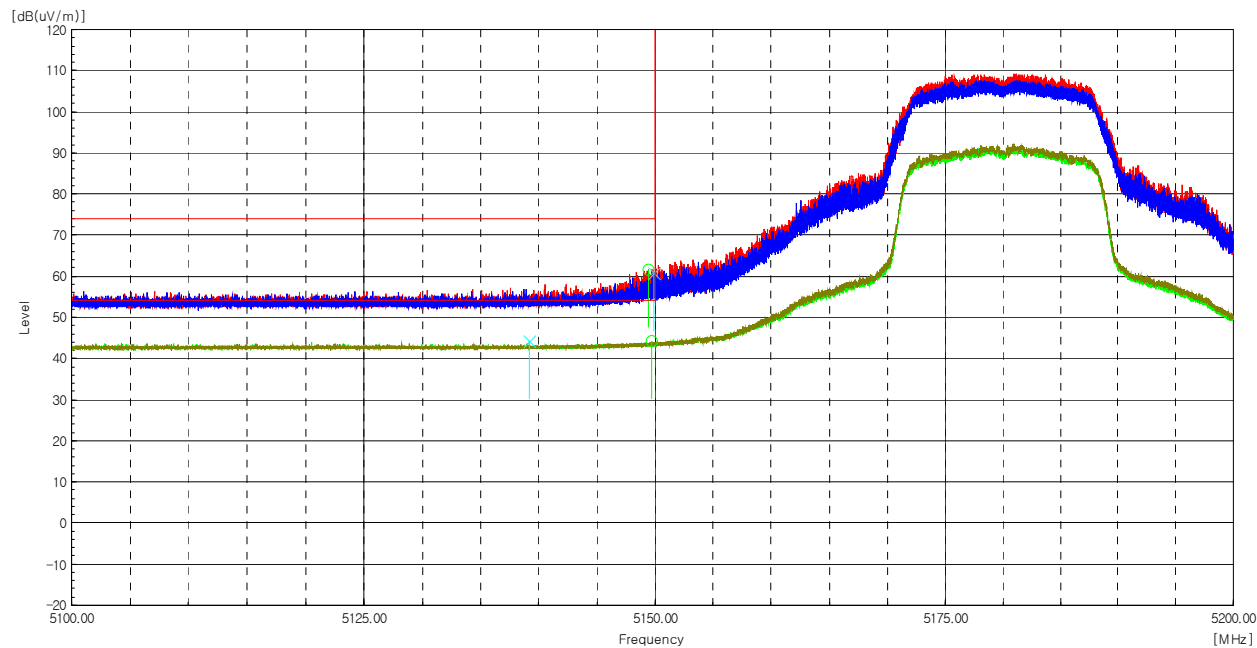
No Peak Found

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 :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

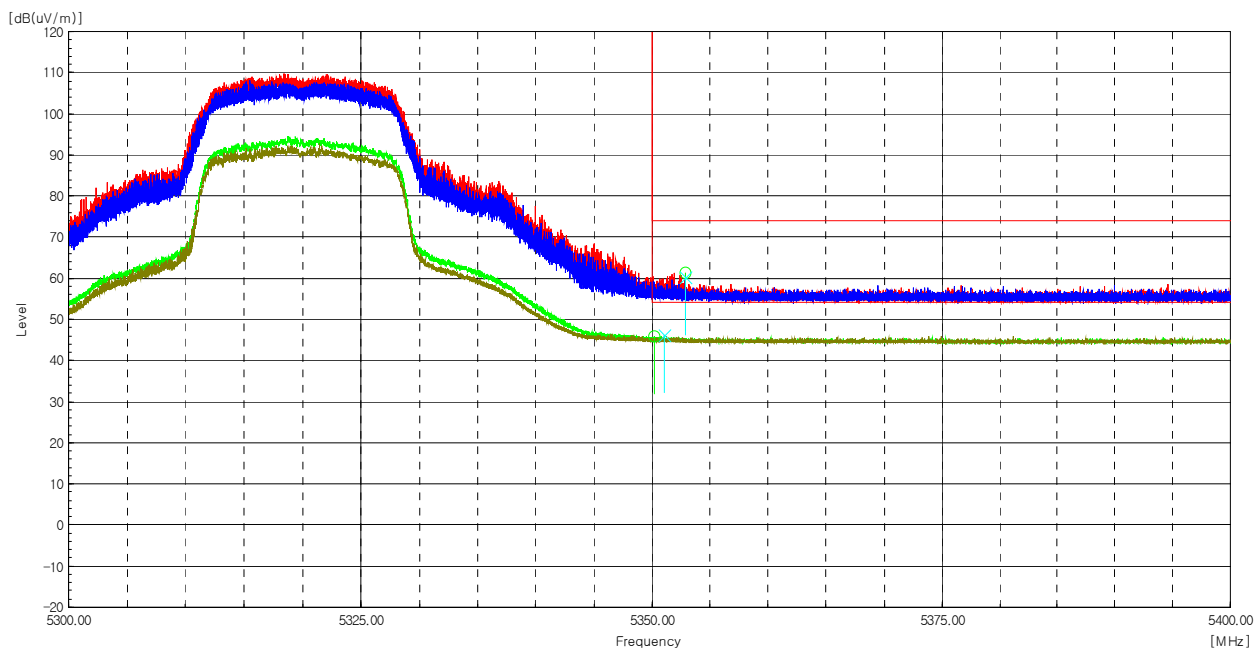


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.46	H	59.10	2.60	-----	61.70	-----	74.00	-----	12.30	-----	Peak
5 149.75	H	41.50	2.60	0.09	-----	44.19	-----	54.00	-----	9.81	Average
5 149.89	V	58.30	2.60	-----	60.90	-----	74.00	-----	13.10	-----	Peak
5 139.17	V	41.50	2.60	0.09	-----	44.19	-----	54.00	-----	9.81	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



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
5 352.88	H	57.80	3.50	-----	61.30	-----	74.00	-----	12.70	-----	Peak
5 350.17	H	42.30	3.50	0.09	-----	45.89	-----	54.00	-----	8.11	Average
5 352.83	V	56.60	3.50	-----	60.10	-----	74.00	-----	13.90	-----	Peak
5 351.09	V	42.60	3.50	0.09	-----	46.19	-----	54.00	-----	7.81	Average

Radiated Restricted Band Edge Plot

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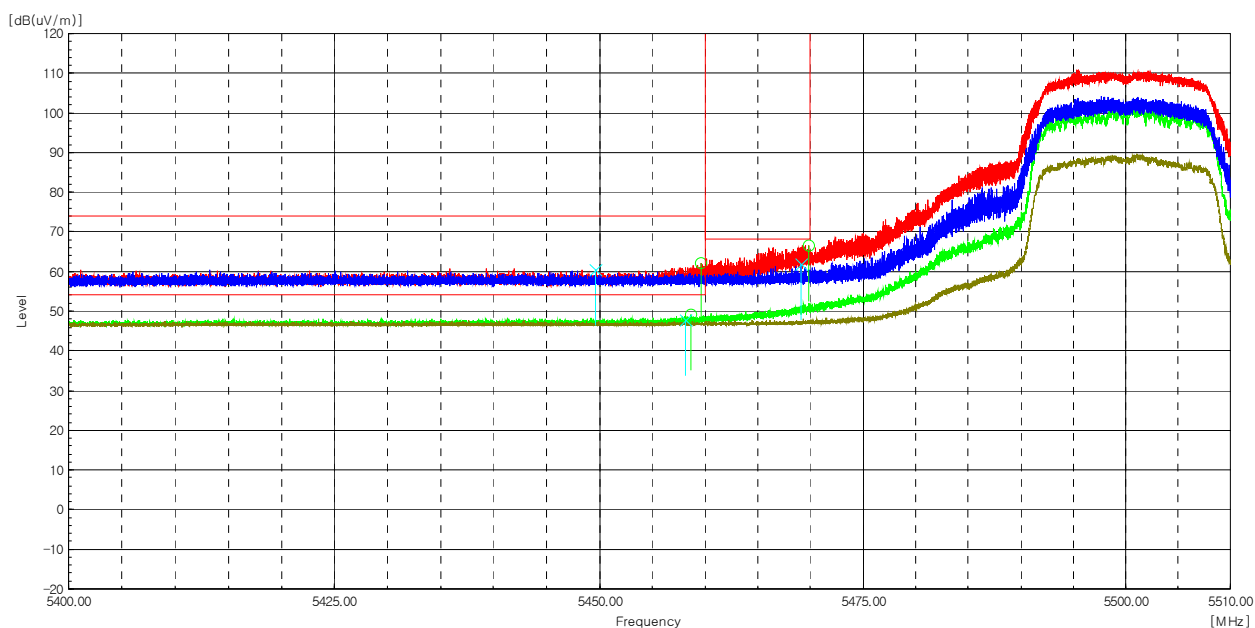
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Report No.:

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Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100

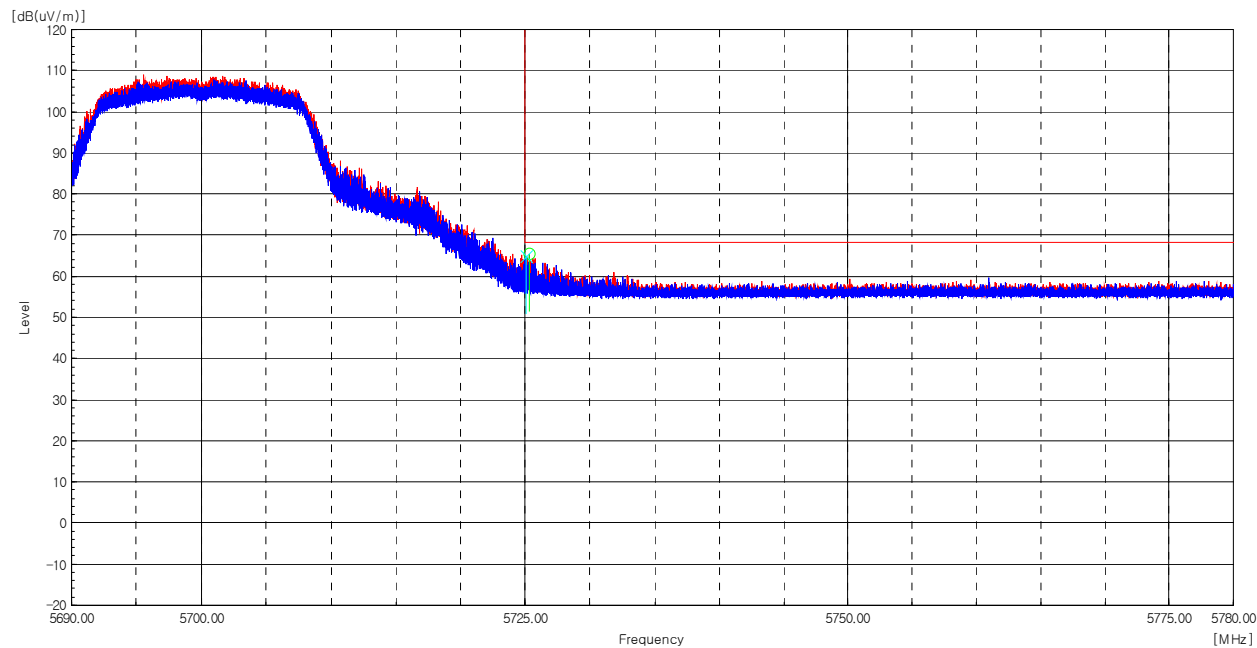


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 453.36	H	54.60	3.60	-----	58.20	-----	74.00	-----	15.80	-----	Peak
5 425.70	H	42.30	3.50	0.09	-----	45.89	-----	54.00	-----	8.11	Average
5 440.44	V	55.10	3.60	-----	58.70	-----	74.00	-----	15.30	-----	Peak
5 449.26	V	42.00	3.60	0.09	-----	45.69	-----	54.00	-----	8.31	Average
5 469.84	H	57.80	3.70	-----	61.50	-----	68.20	-----	6.70	-----	Peak
5 469.55	V	58.00	3.70	-----	61.70	-----	68.20	-----	6.50	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140

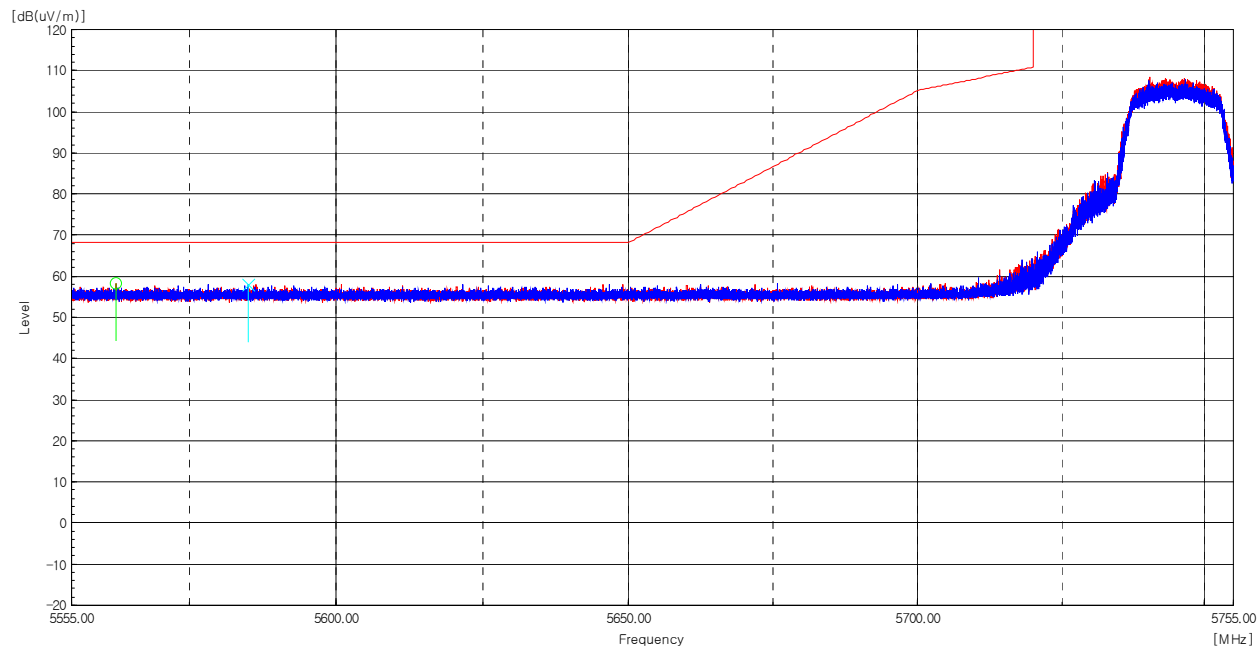


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 725.31	H	60.8	4.5	-----	65.30	-----	68.20	-----	2.90	-----	Peak
5 725.04	V	60.2	4.5	-----	64.70	-----	68.20	-----	3.50	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



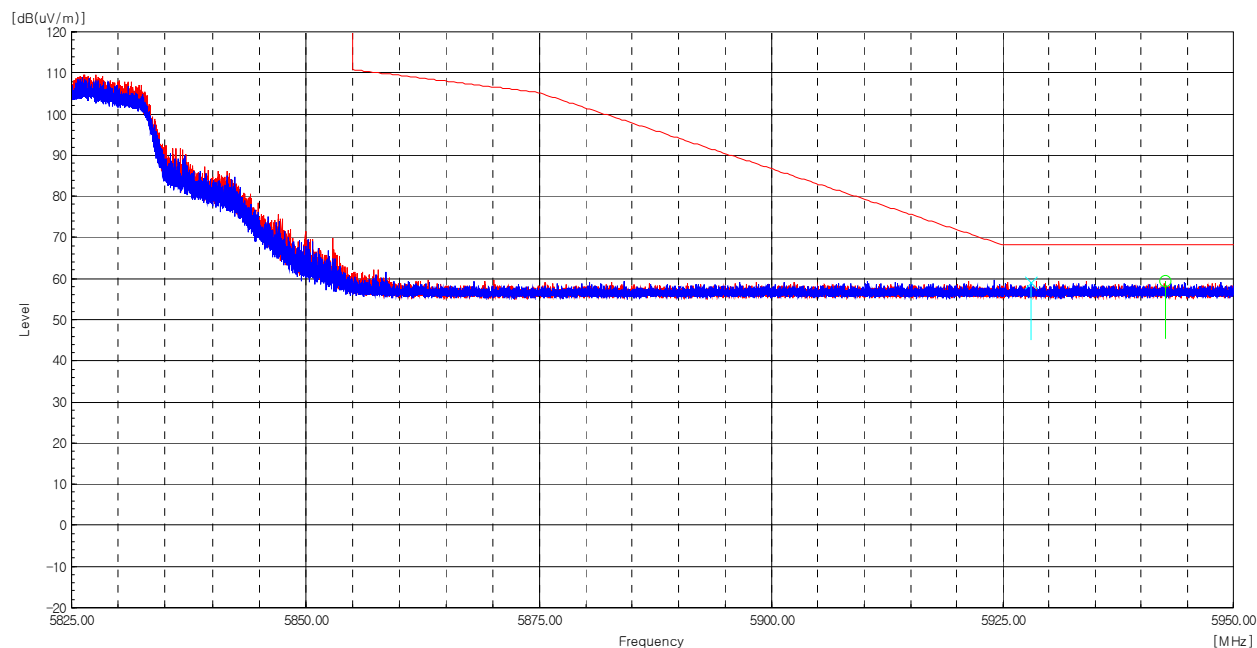
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



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, 802.11a-ANT2

The requirements are:

☒ Complies

Test Data

Ch.36(5 180 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
10 359.26	H	55.40	10.70	-----	66.10	-----	68.20	-----	2.10	-----	Peak
10 361.58	V	53.90	10.80	-----	64.70	-----	68.20	-----	3.50	-----	Peak

Ch.40(5 200 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
10 398.30	H	55.20	10.90	-----	66.10	-----	68.20	-----	2.10	-----	Peak
10 399.00	V	53.70	10.90	-----	64.60	-----	68.20	-----	3.60	-----	Peak

Ch.48(5 240 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
10 479.65	H	54.80	11.10	-----	65.90	-----	68.20	-----	2.30	-----	Peak
10 478.78	V	52.30	11.10	-----	63.40	-----	68.20	-----	4.80	-----	Peak

Ch.5 2(5 260 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
10 519.11	H	55.50	11.10	-----	66.60	-----	68.20	-----	1.60	-----	Peak
10 525.63	V	52.60	11.10	-----	63.70	-----	68.20	-----	4.50	-----	Peak

Ch.60(5 300 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
10 601.66	H	54.00	11.20	-----	65.20	-----	74.00	-----	8.80	-----	Peak
10 602.27	H	36.60	11.20	0.09	-----	47.89	-----	54.00	-----	6.11	Average
10 601.83	V	52.50	11.20	-----	63.70	-----	74.00	-----	10.30	-----	Peak
10 600.09	V	39.10	11.20	0.09	-----	50.39	-----	54.00	-----	3.61	Average

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Ch.64(5 320 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
10638.11	H	55.40	11.20	-----	66.60	-----	74.00	-----	7.40	-----	Peak
10642.04	H	37.10	11.20	0.09	-----	48.39	-----	54.00	-----	5.61	Average
10636.63	V	53.40	11.20	-----	64.60	-----	74.00	-----	9.40	-----	Peak
10642.06	V	37.90	11.20	0.09	-----	49.19	-----	54.00	-----	4.81	Average

Ch.100(5 500 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
11 000.57	H	49.20	11.60	-----	60.80	-----	74.00	-----	13.20	-----	Peak
11 010.78	H	34.20	11.70	0.09	-----	45.99	-----	54.00	-----	8.01	Average
10 996.58	V	48.50	11.60	-----	60.10	-----	74.00	-----	13.90	-----	Peak
10 998.38	V	35.00	11.60	0.09	-----	46.69	-----	54.00	-----	7.31	Average

Ch.120(5 600 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
11 000.57	H	49.20	11.60	-----	60.80	-----	74.00	-----	13.20	-----	Peak
11 010.78	H	34.20	11.70	0.09	-----	45.99	-----	54.00	-----	8.01	Average
10 996.58	V	48.50	11.60	-----	60.10	-----	74.00	-----	13.90	-----	Peak
10 998.38	V	35.00	11.60	0.09	-----	46.69	-----	54.00	-----	7.31	Average

Ch.140(5 700 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.144(5 720 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.149(5 745 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.157(5 785 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.165(5 825 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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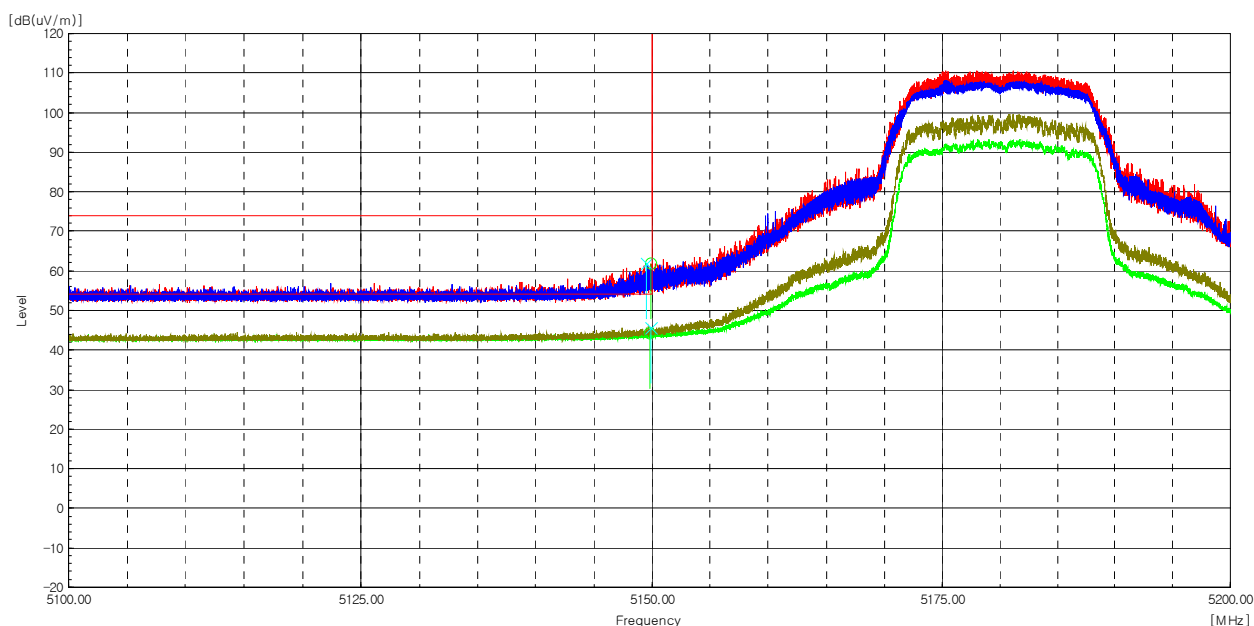
No Peak Found

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 :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

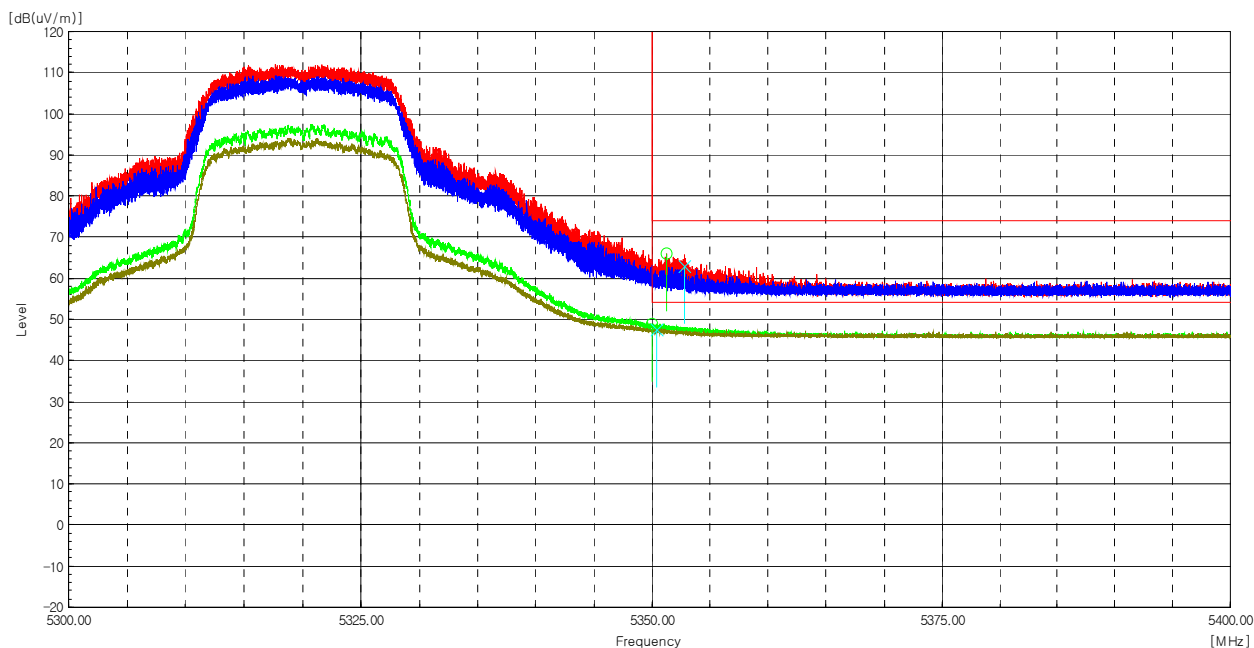


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.87	H	59.20	2.60	-----	61.80	-----	74.00	-----	12.20	-----	Peak
5 149.77	H	41.60	2.60	0.09	-----	44.29	-----	54.00	-----	9.71	Average
5 149.53	V	59.40	2.60	-----	62.00	-----	74.00	-----	12.00	-----	Peak
5 149.93	V	43.00	2.60	0.09	-----	45.69	-----	54.00	-----	8.31	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64

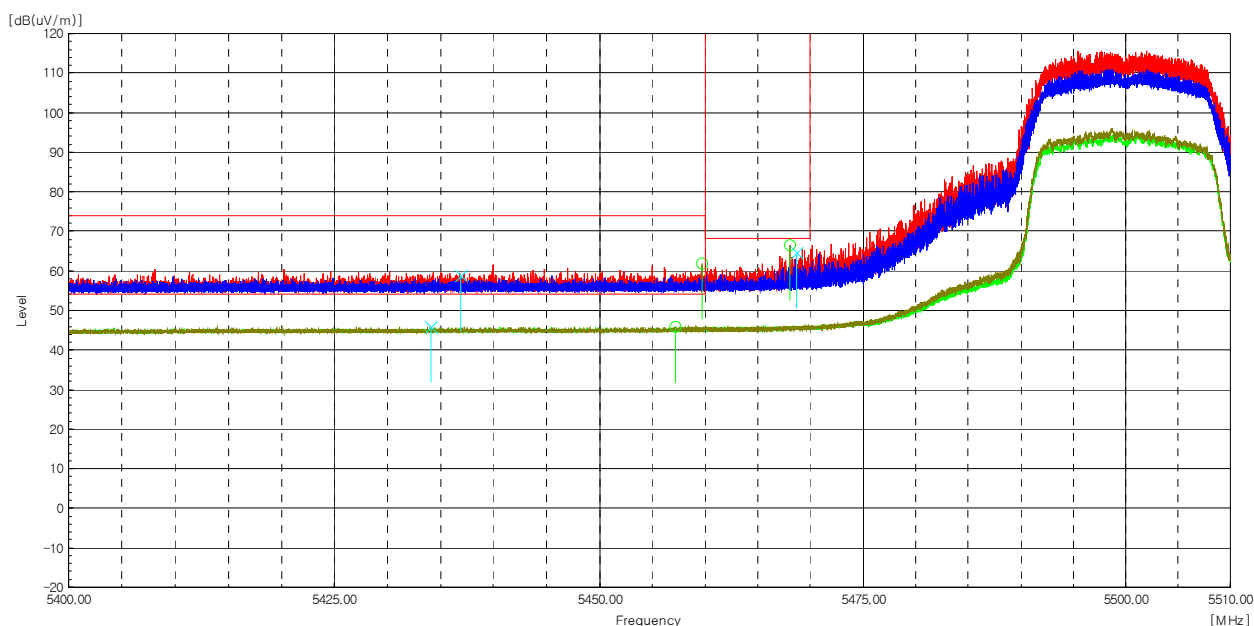


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 350.54	H	56.70	3.50	-----	60.20	-----	74.00	-----	13.80	-----	Peak
5 350.05	H	42.30	3.50	0.09	-----	45.89	-----	54.00	-----	8.11	Average
5 396.12	V	54.80	3.40	-----	58.20	-----	74.00	-----	15.80	-----	Peak
5 359.30	V	42.80	3.50	0.09	-----	46.39	-----	54.00	-----	7.61	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100

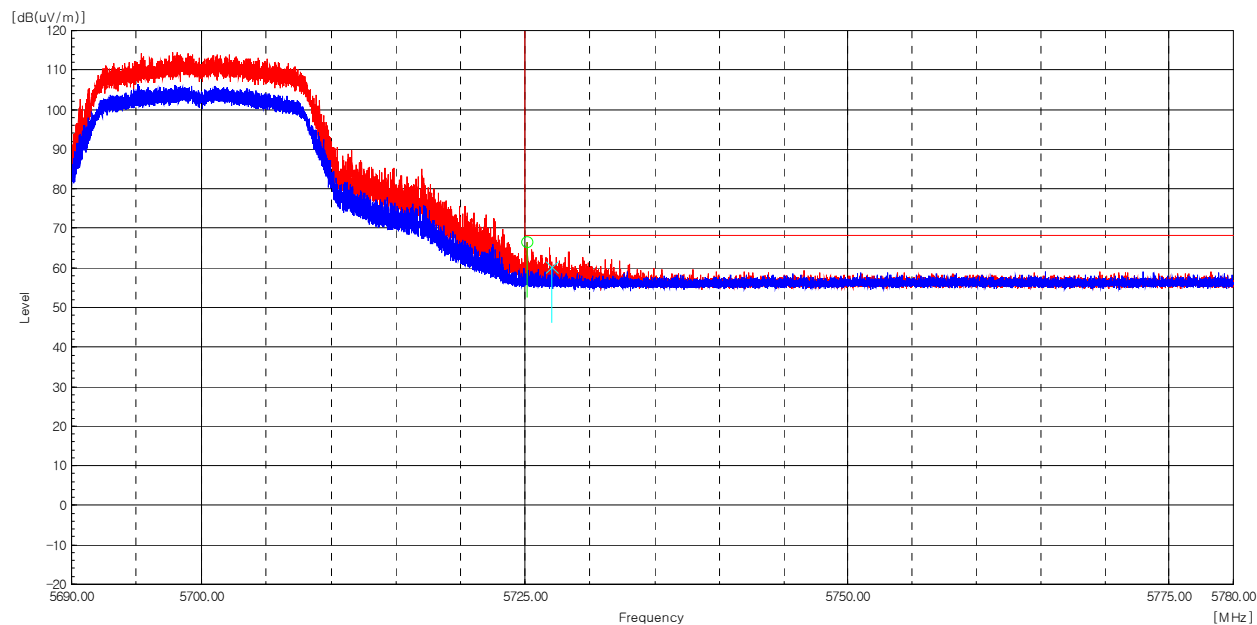


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 459.73	H	58.00	3.70	-----	61.70	-----	74.00	-----	12.30	-----	Peak
5 457.17	H	42.10	3.70	0.09	-----	45.89	-----	54.00	-----	8.11	Average
5 436.89	V	55.20	3.60	-----	58.80	-----	74.00	-----	15.20	-----	Peak
5 434.10	V	42.40	3.60	0.09	-----	46.09	-----	54.00	-----	7.91	Average
5 468.01	H	62.80	3.70	-----	66.50	-----	68.20	-----	1.70	-----	Peak
5 468.67	V	60.90	3.70	-----	64.60	-----	68.20	-----	3.60	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140

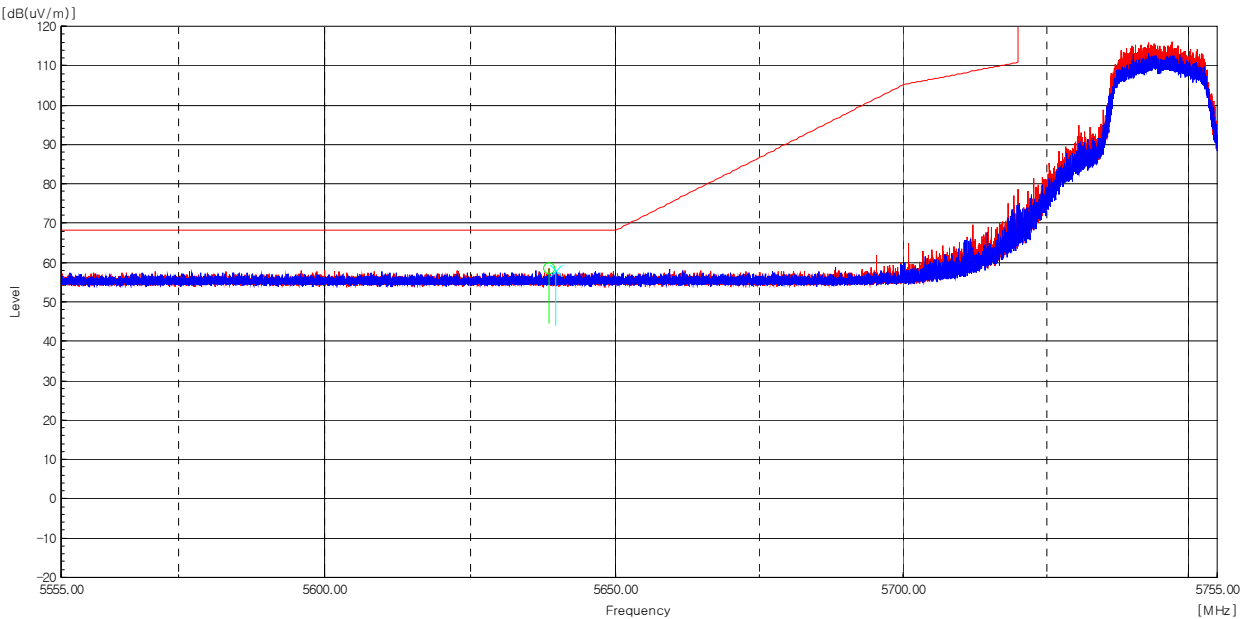


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 725.13	H	62.10	4.50	-----	66.60	-----	68.20	-----	1.60	-----	Peak
5 727.02	V	55.70	4.50	-----	60.20	-----	68.20	-----	8.00	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



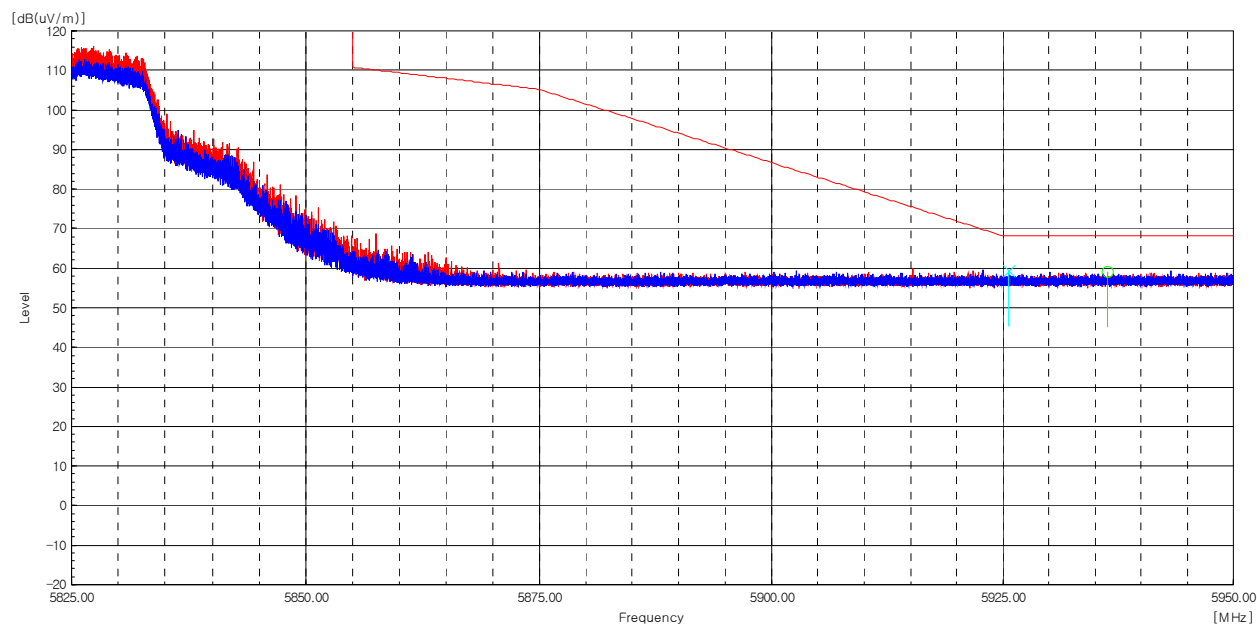
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



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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Report No.:
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Test mode : Transmitter, 802.11n_HT20

The requirements are:

☒ Complies

Test Data

Ch.36(5 180 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
10 357.04	H	55.00	10.70	-----	65.70	-----	68.20	-----	2.50	-----	Peak
10 357.01	V	55.00	10.70	-----	65.70	-----	68.20	-----	2.50	-----	Peak

Ch.40(5 200 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
10 396.77	H	54.60	10.90	-----	65.50	-----	68.20	-----	2.70	-----	Peak
10 401.72	V	54.90	10.90	-----	65.80	-----	68.20	-----	2.40	-----	Peak

Ch.48(5 240 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
10 481.51	H	53.30	11.10	-----	64.40	-----	68.20	-----	3.80	-----	Peak
10 481.92	V	54.00	11.10	-----	65.10	-----	68.20	-----	3.10	-----	Peak

Ch.52(5 260 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
10 516.71	H	55.10	11.10	-----	66.20	-----	68.20	-----	2.00	-----	Peak
10 519.65	V	54.80	11.10	-----	65.90	-----	68.20	-----	2.30	-----	Peak

Ch.60(5 300 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
10 601.10	H	55.00	11.20	-----	66.20	-----	74.00	-----	7.80	-----	Peak
10 601.61	H	37.10	11.20	0.10	-----	48.40	-----	54.00	-----	5.60	Average
10 601.16	V	54.50	11.20	-----	65.70	-----	74.00	-----	8.30	-----	Peak
10 601.67	V	38.70	11.20	0.10	-----	50.00	-----	54.00	-----	4.00	Average

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Ch.64(5 320 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
10 644.28	H	56.30	11.20	-----	67.50	-----	74.00	-----	6.50	-----	Peak
10 639.48	H	36.80	11.20	0.10	-----	48.10	-----	54.00	-----	5.90	Average
10 634.29	V	54.30	11.20	-----	65.50	-----	74.00	-----	8.50	-----	Peak
10 639.25	V	38.30	11.20	0.10	-----	49.60	-----	54.00	-----	4.40	Average

Ch.100(5 500 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
11 001.91	H	50.80	11.60	-----	62.40	-----	74.00	-----	11.60	-----	Peak
10 999.72	H	34.80	11.60	0.10	-----	46.50	-----	54.00	-----	7.50	Average
10 995.03	V	51.40	11.60	-----	63.00	-----	74.00	-----	11.00	-----	Peak
11 001.72	V	35.90	11.60	0.10	-----	47.60	-----	54.00	-----	6.40	Average

Ch.120(5 600 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
11 199.59	H	50.20	12.00	-----	62.20	-----	74.00	-----	11.80	-----	Peak
11 202.06	H	35.60	12.10	0.10	-----	47.80	-----	54.00	-----	6.20	Average
11 196.32	V	49.40	12.00	-----	61.40	-----	74.00	-----	12.60	-----	Peak
11 199.39	V	36.10	12.00	0.10	-----	48.20	-----	54.00	-----	5.80	Average

Ch.140(5 700 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
11 397.03	H	47.50	11.80	-----	59.30	-----	74.00	-----	14.70	-----	Peak
11 403.45	H	34.40	11.90	0.10	-----	46.40	-----	54.00	-----	7.60	Average
11 396.49	V	47.10	11.80	-----	58.90	-----	74.00	-----	15.10	-----	Peak
11 423.53	V	34.30	12.10	0.10	-----	46.50	-----	54.00	-----	7.50	Average

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Ch.144(5 720 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
11 444.18	H	46.30	12.20	-----	58.50	-----	74.00	-----	15.50	-----	Peak
11 437.28	H	34.40	12.20	0.10	-----	46.70	-----	54.00	-----	7.30	Average
11 439.69	V	46.60	12.20	-----	58.80	-----	74.00	-----	15.20	-----	Peak
11 446.65	V	34.20	12.20	0.10	-----	46.50	-----	54.00	-----	7.50	Average

Ch.149(5 745 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.157(5 785 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.165(5 825 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

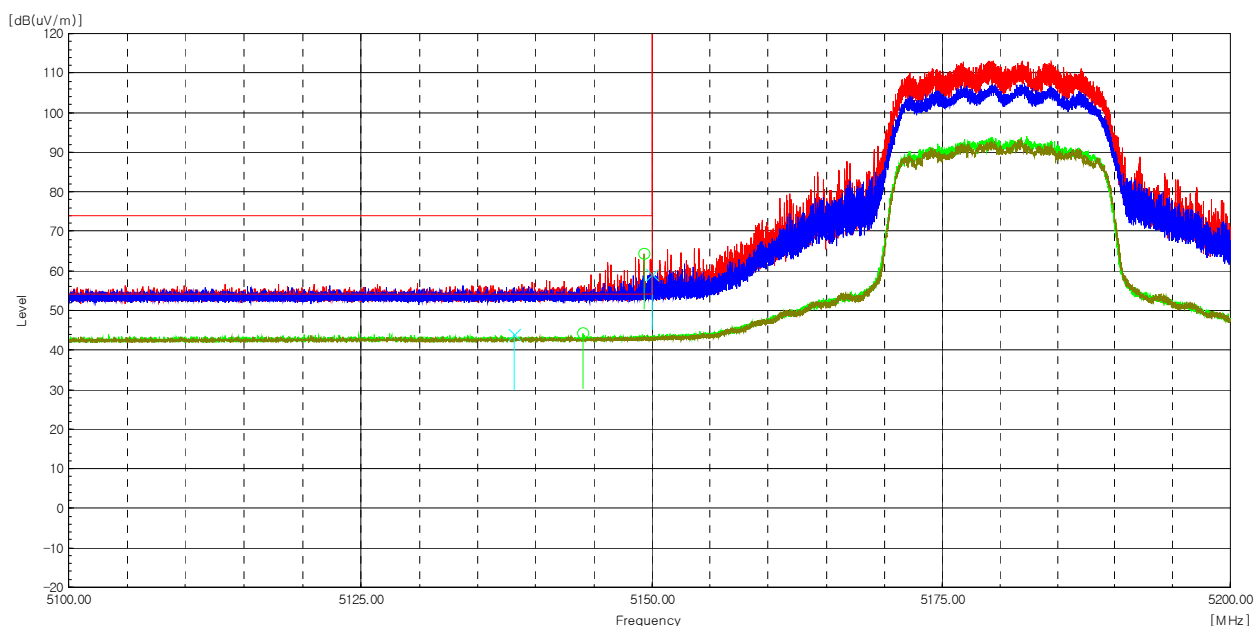
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
Average Result = Reading + c.f(Correction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



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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

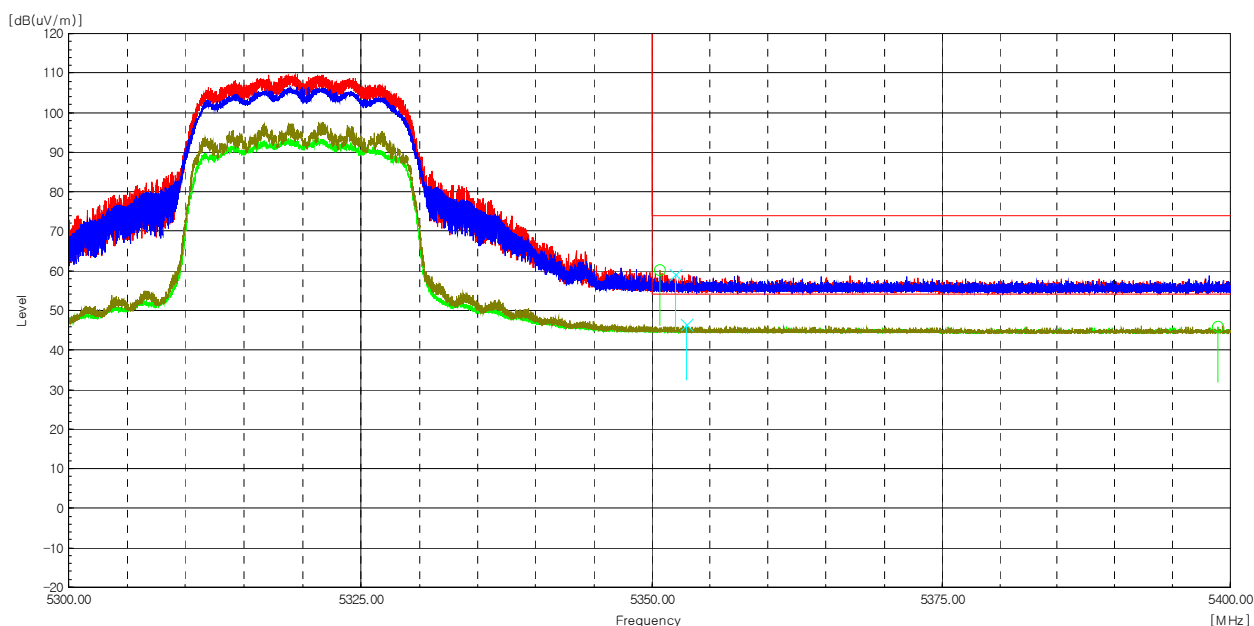


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.28	H	61.60	2.60	-----	64.20	-----	74.00	-----	9.80	-----	Peak
5 144.05	H	41.60	2.60	0.10	-----	44.30	-----	54.00	-----	9.70	Average
5 149.97	V	56.40	2.60	-----	59.00	-----	74.00	-----	15.00	-----	Peak
5 138.12	V	41.30	2.60	0.10	-----	44.00	-----	54.00	-----	10.00	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



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
5 350.68	H	56.70	3.50	-----	60.20	-----	74.00	-----	13.80	-----	Peak
5 398.93	H	42.60	3.40	0.10	-----	46.10	-----	54.00	-----	7.90	Average
5 351.97	V	55.50	3.50	-----	59.00	-----	74.00	-----	15.00	-----	Peak
5 352.93	V	42.80	3.50	0.10	-----	46.40	-----	54.00	-----	7.60	Average

Radiated Restricted Band Edge Plot

**CTK Co., Ltd.**

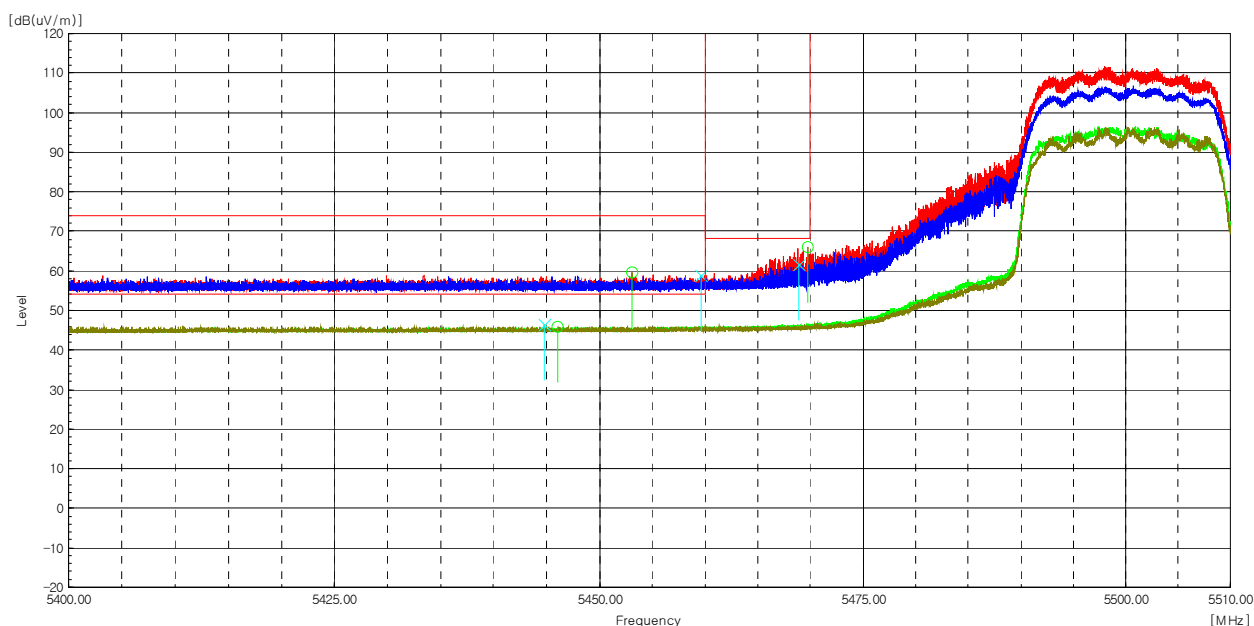
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Report No.:

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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100

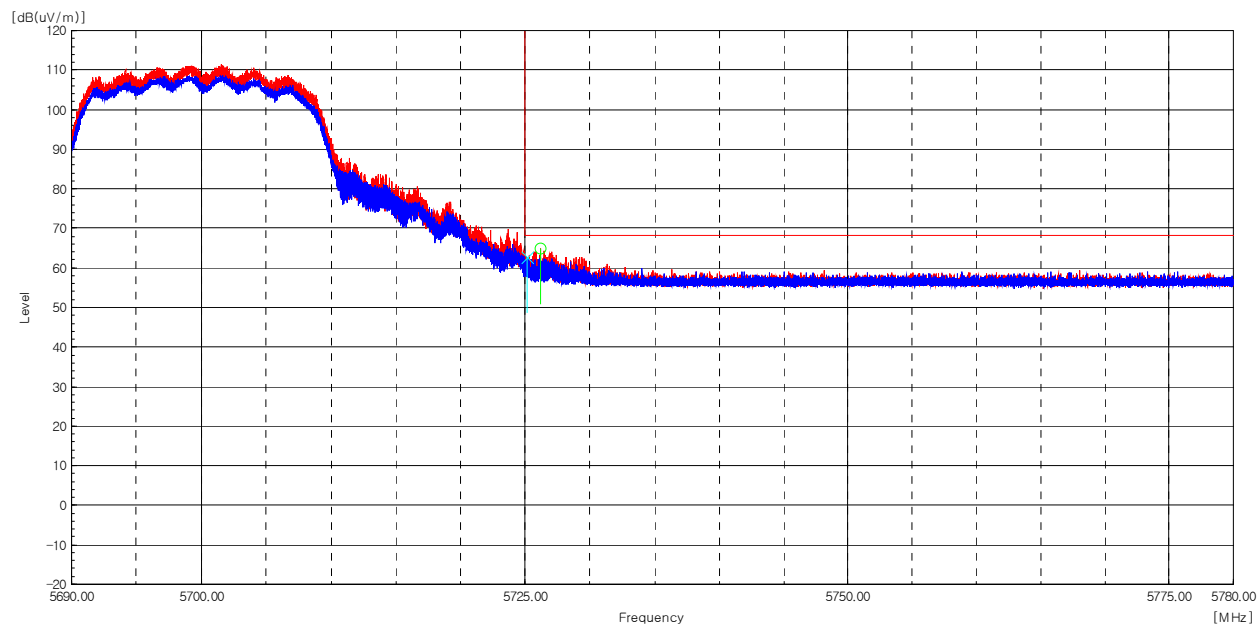


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 453.12	H	56.00	3.60	-----	59.60	-----	74.00	-----	14.40	-----	Peak
5 446.05	H	42.20	3.60	0.10	-----	45.90	-----	54.00	-----	8.10	Average
5 459.60	V	55.20	3.70	-----	58.90	-----	74.00	-----	15.10	-----	Peak
5 444.75	V	42.90	3.60	0.10	-----	46.60	-----	54.00	-----	7.40	Average
5 469.70	H	62.30	3.70	-----	66.00	-----	68.20	-----	2.20	-----	Peak
5 468.89	V	57.90	3.70	-----	61.60	-----	68.20	-----	6.60	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140



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
5 726.19	H	60.30	4.50	-----	64.80	-----	68.20	-----	3.40	-----	Peak
5 725.18	V	58.10	4.50	-----	62.60	-----	68.20	-----	5.60	-----	Peak

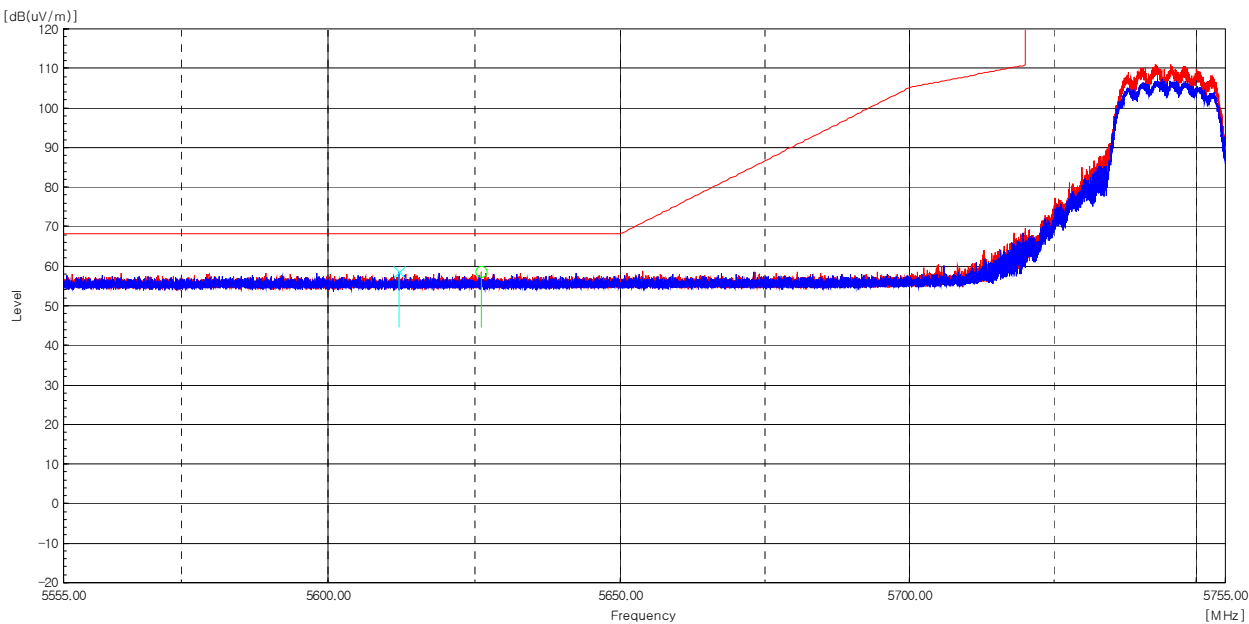
Radiated Restricted Band Edge Plot



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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



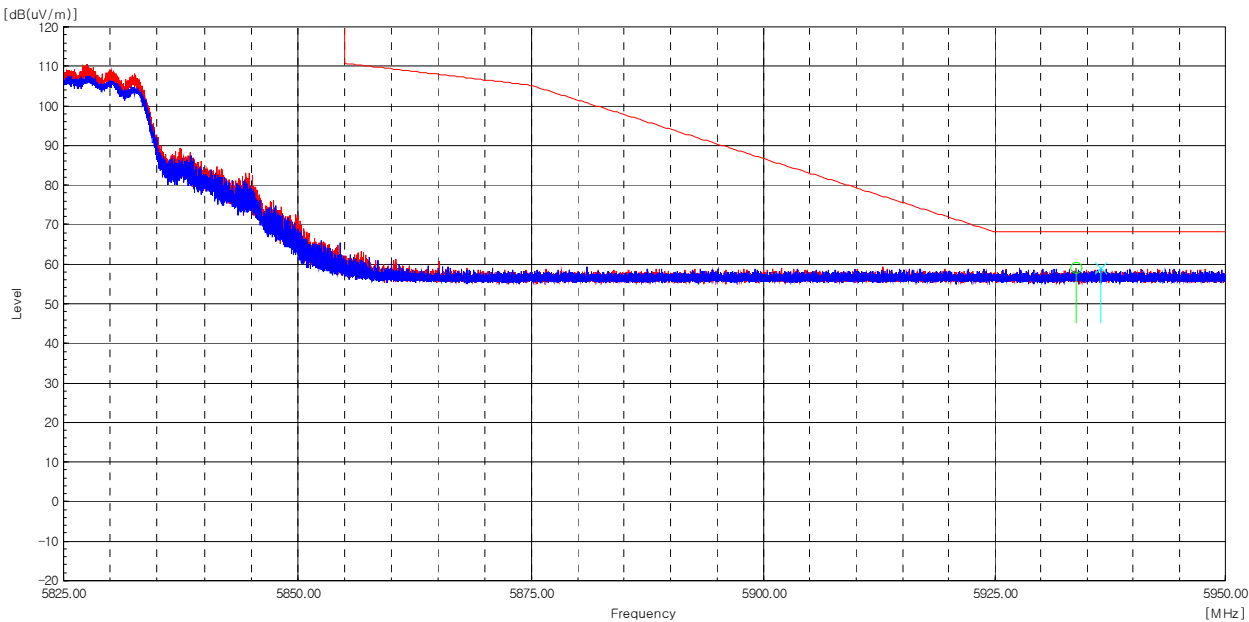
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



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_VHT20

The requirements are:

☒ Complies

Test Data**Ch.36(5 180 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
10 361.57	H	54.40	10.80	-----	65.20	-----	68.20	-----	3.00	-----	Peak
10 358.90	V	52.80	10.70	-----	63.50	-----	68.20	-----	4.70	-----	Peak

Ch.40(5 200 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
10 398.54	H	55.40	10.90	-----	66.30	-----	68.20	-----	1.90	-----	Peak
10 398.15	V	52.60	10.90	-----	63.50	-----	68.20	-----	4.70	-----	Peak

Ch.48(5 240 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
10 479.08	H	52.50	11.10	-----	63.60	-----	68.20	-----	4.60	-----	Peak
10 479.45	V	52.30	11.10	-----	63.40	-----	68.20	-----	4.80	-----	Peak

Ch.52(5 260 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
10 517.98	H	54.40	11.10	-----	65.50	-----	68.20	-----	2.70	-----	Peak
10 519.43	V	53.50	11.10	-----	64.60	-----	68.20	-----	3.60	-----	Peak

Ch.60(5 300 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
10 598.36	H	54.20	11.20	-----	65.40	-----	68.20	-----	2.80	-----	Peak
10 599.72	V	54.20	11.20	-----	65.40	-----	68.20	-----	2.80	-----	Peak

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Ch.64(5 320 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
10 639.19	H	54.00	11.20	-----	65.20	-----	74.00	-----	8.80	-----	Peak
10 638.59	H	37.10	11.20	0.20	-----	48.50	-----	54.00	-----	5.50	Average
10 635.39	V	52.70	11.20	-----	63.90	-----	74.00	-----	10.10	-----	Peak
10 638.13	V	38.10	11.20	0.20	-----	49.50	-----	54.00	-----	4.50	Average

Ch.100(5 500 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
10 994.73	H	49.30	11.60	-----	60.90	-----	74.00	-----	13.10	-----	Peak
11 000.84	H	34.50	11.60	0.20	-----	46.30	-----	54.00	-----	7.70	Average
10 998.42	V	48.30	11.60	-----	59.90	-----	74.00	-----	14.10	-----	Peak
11 002.00	V	35.10	11.60	0.20	-----	46.90	-----	54.00	-----	7.10	Average

Ch.120(5 600 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
11 201.18	H	49.50	12.10	-----	61.60	-----	74.00	-----	12.40	-----	Peak
11 194.42	H	34.90	12.00	0.20	-----	47.10	-----	54.00	-----	6.90	Average
11 198.91	V	48.60	12.00	-----	60.60	-----	74.00	-----	13.40	-----	Peak
11 200.07	V	35.30	12.10	0.20	-----	47.60	-----	54.00	-----	6.40	Average

Ch.140(5 700 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
11 407.32	H	47.20	11.90	-----	59.10	-----	74.00	-----	14.90	-----	Peak
11 403.06	H	35.20	11.90	0.20	-----	47.30	-----	54.00	-----	6.70	Average
11 406.12	V	47.10	11.90	-----	59.00	-----	74.00	-----	15.00	-----	Peak
11 395.27	V	35.30	11.80	0.20	-----	47.30	-----	54.00	-----	6.70	Average

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Ch.144(5 720 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
11 438.67	H	46.20	12.20	-----	58.40	-----	74.00	-----	15.60	-----	Peak
11 443.87	H	34.40	12.20	0.20	-----	46.80	-----	54.00	-----	7.20	Average
11 433.76	V	47.40	12.20	-----	59.60	-----	74.00	-----	14.40	-----	Peak
11 446.51	V	35.20	12.20	0.20	-----	47.60	-----	54.00	-----	6.40	Average

Ch.149(5 745 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.157(5 785 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.165(5 825 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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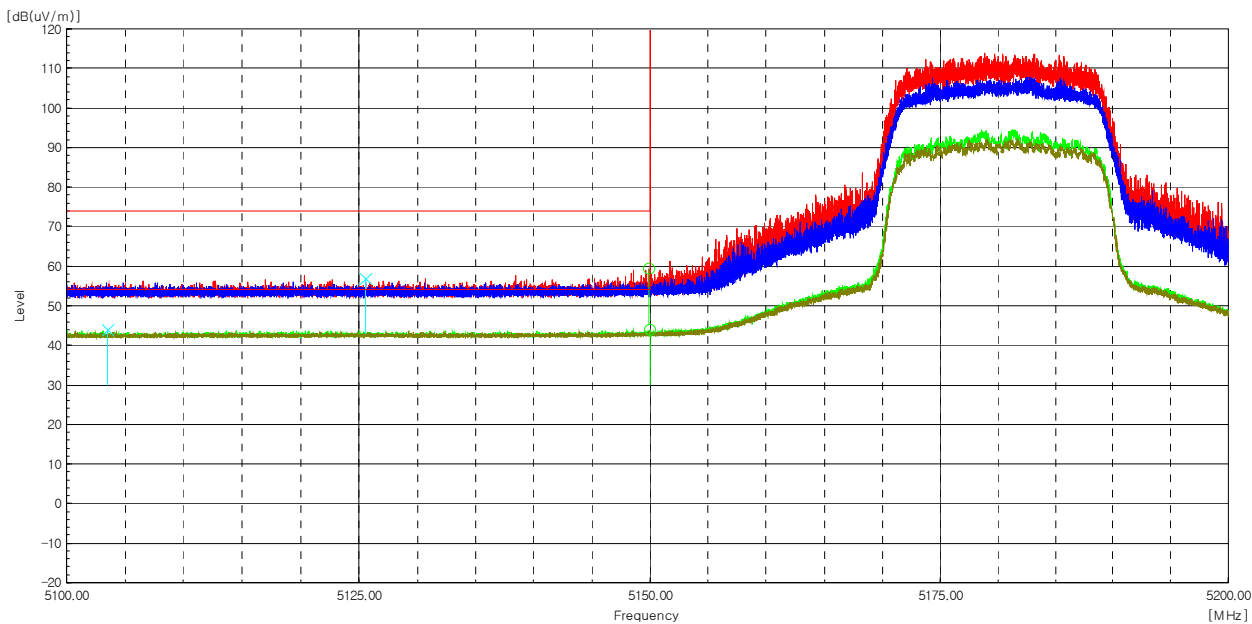
No Peak Found

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 :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

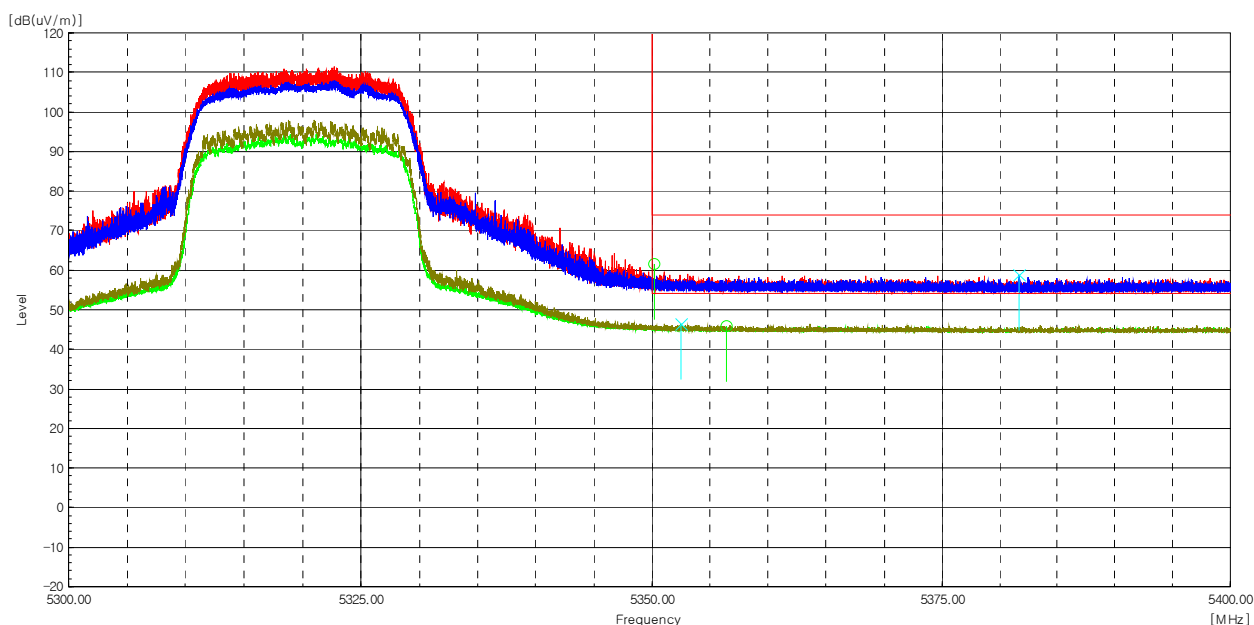


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 149.92	H	56.70	2.60	-----	59.30	-----	74.00	-----	14.70	-----	Peak
5 149.97	H	41.20	2.60	0.20	-----	44.00	-----	54.00	-----	10.00	Average
5 125.57	V	54.20	2.70	-----	56.90	-----	74.00	-----	17.10	-----	Peak
5 103.53	V	41.20	2.70	0.20	-----	44.10	-----	54.00	-----	9.90	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64

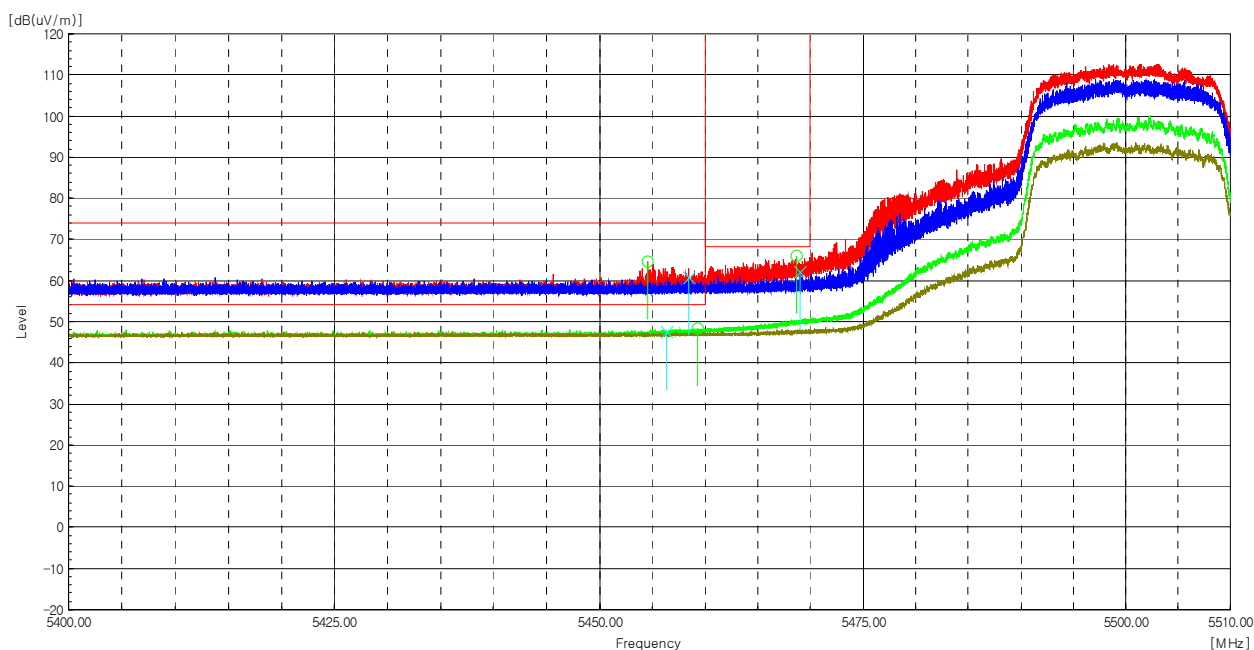


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 350.23	H	58.10	3.50	-----	61.60	-----	74.00	-----	12.40	-----	Peak
5 356.45	H	42.40	3.50	0.20	-----	46.10	-----	54.00	-----	7.90	Average
5 381.72	V	55.50	3.40	-----	58.90	-----	74.00	-----	15.10	-----	Peak
5 352.52	V	43.00	3.50	0.20	-----	46.70	-----	54.00	-----	7.30	Average

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100

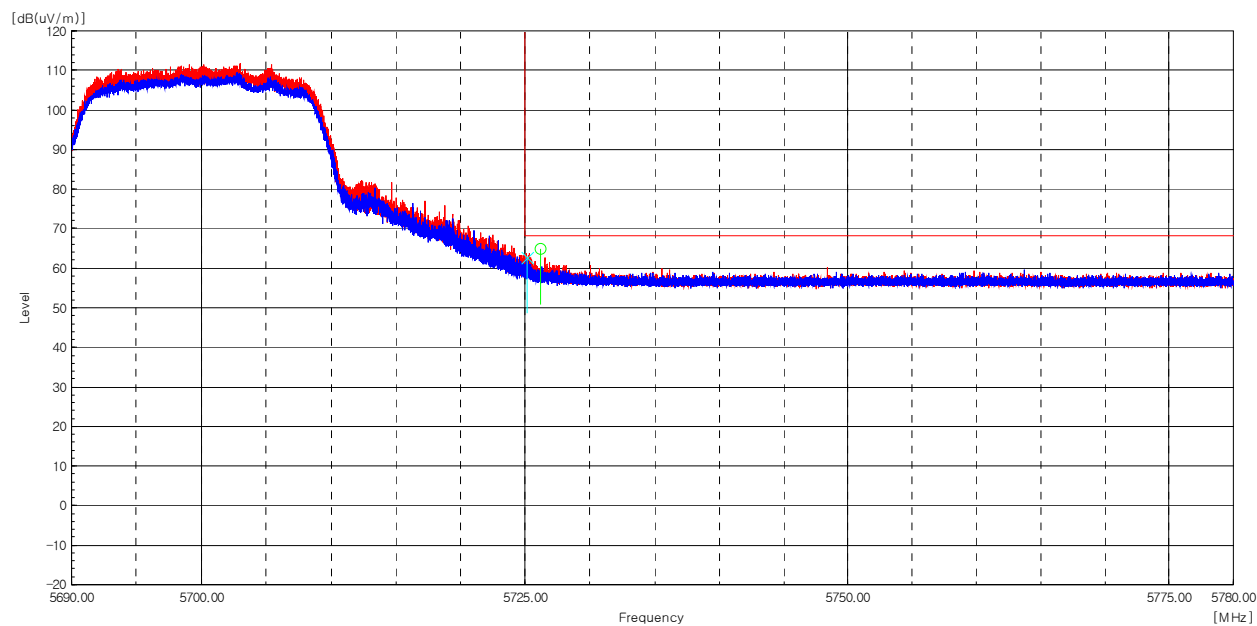


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 453.66	H	55.80	3.60	-----	59.40	-----	74.00	-----	14.60	-----	Peak
5 459.56	H	42.10	3.70	0.20	-----	46.00	-----	54.00	-----	8.00	Average
5 442.71	V	55.20	3.60	-----	58.80	-----	74.00	-----	15.20	-----	Peak
5 457.64	V	42.70	3.70	0.20	-----	46.60	-----	54.00	-----	7.40	Average
5 469.28	H	56.70	3.70	-----	60.40	-----	68.20	-----	7.80	-----	Peak
5 468.92	V	55.10	3.70	-----	58.80	-----	68.20	-----	9.40	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140

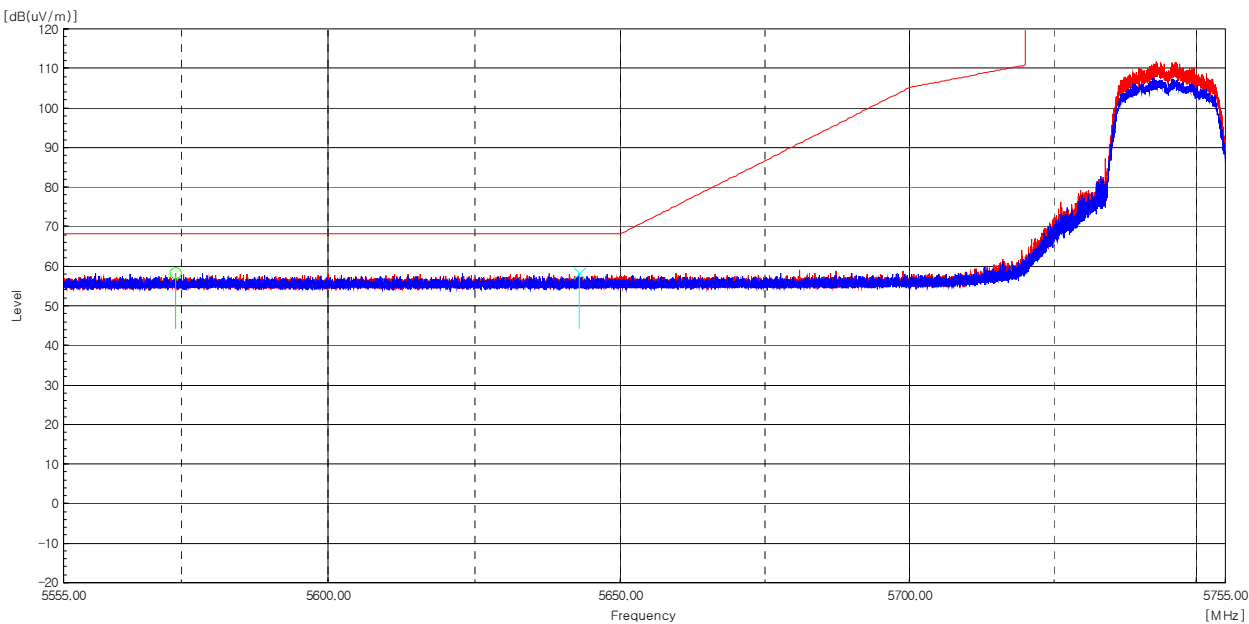


Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
5 726.19	H	60.30	4.50	-----	64.80	-----	68.20	-----	3.40	-----	Peak
5 725.18	V	58.10	4.50	-----	62.60	-----	68.20	-----	5.60	-----	Peak

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



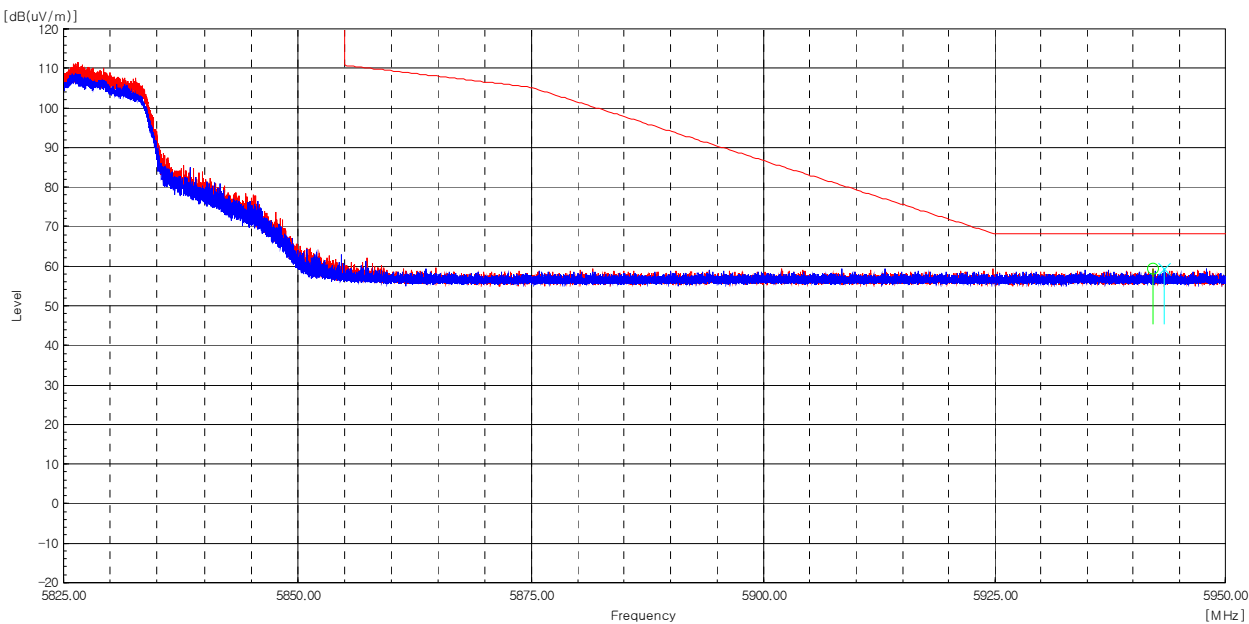
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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No Peak Found

Radiated Restricted Band Edge Plot



Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



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