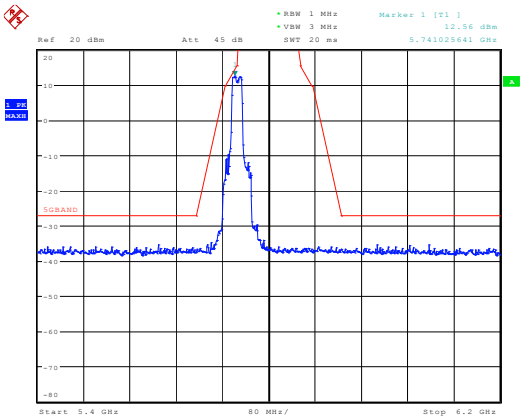
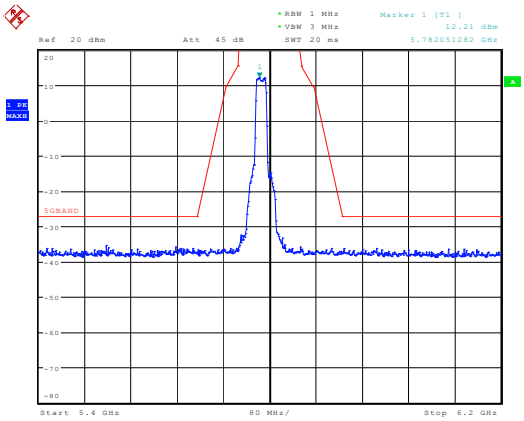
802.11n(HT20)

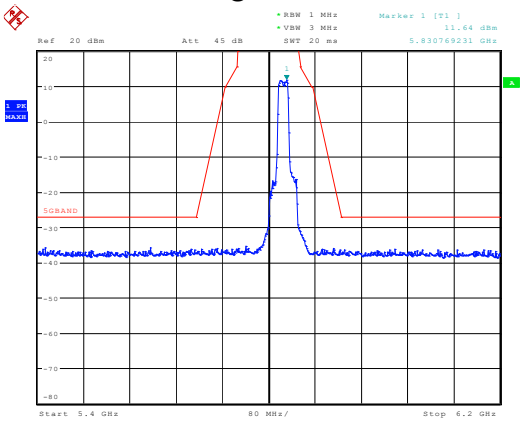
Low Channel



Middle Channel

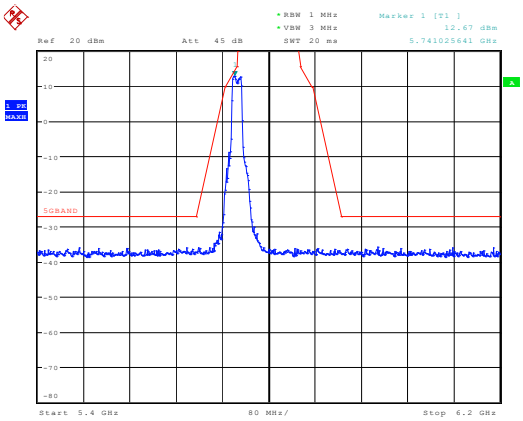


High Channel

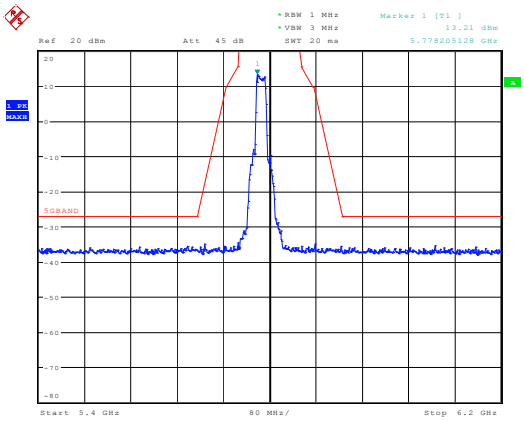


802.11ac(VHT20)

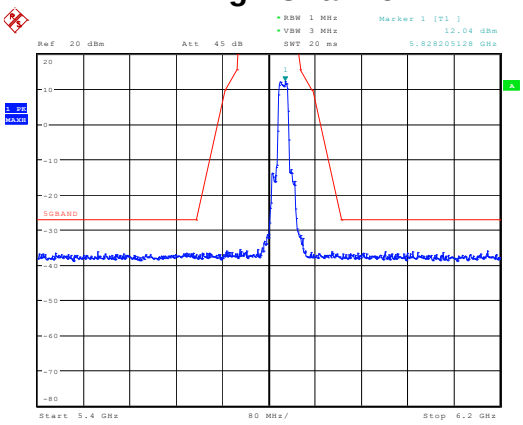
Low Channel



Middle Channel

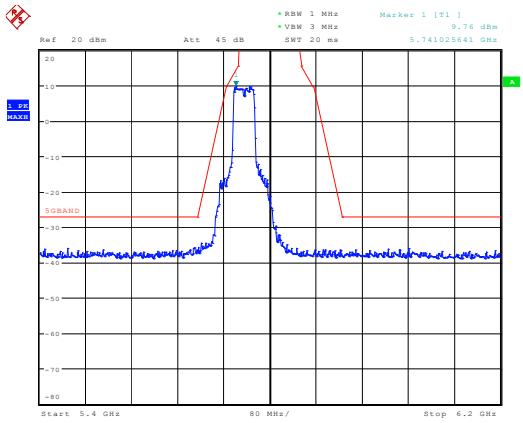


High Channel

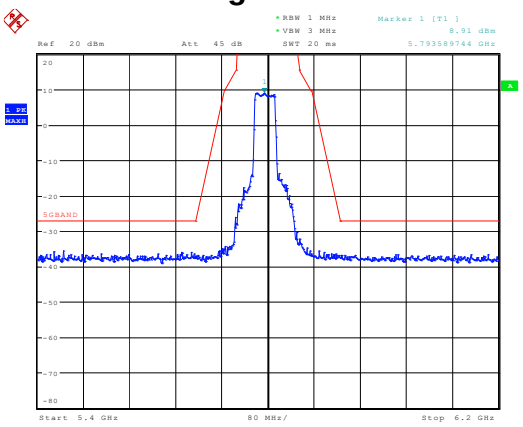


802.11n(HT40)

Low Channel

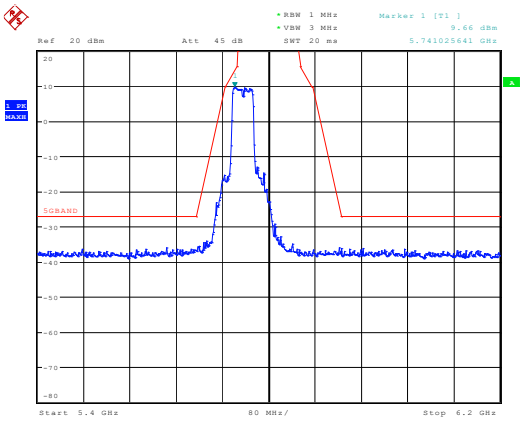


High Channel

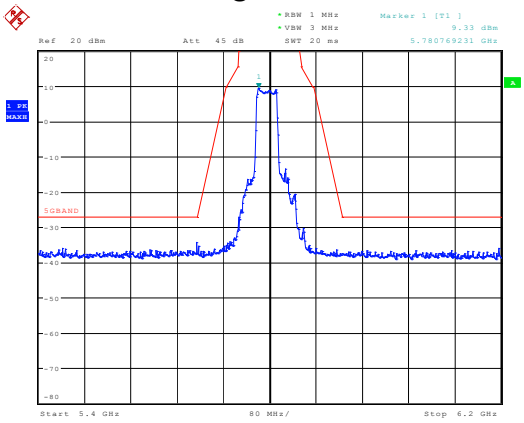


802.11ac(VHT40)

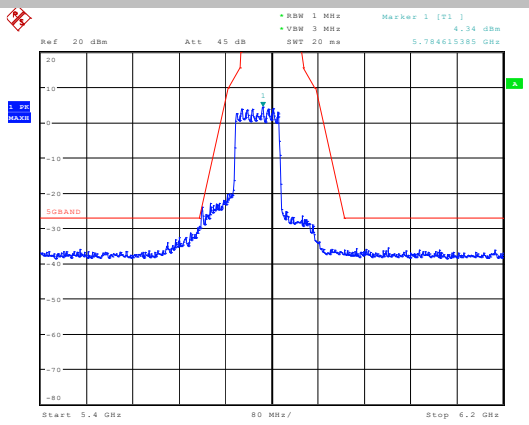
Low Channel



High Channel



802.11ac(VHT80)

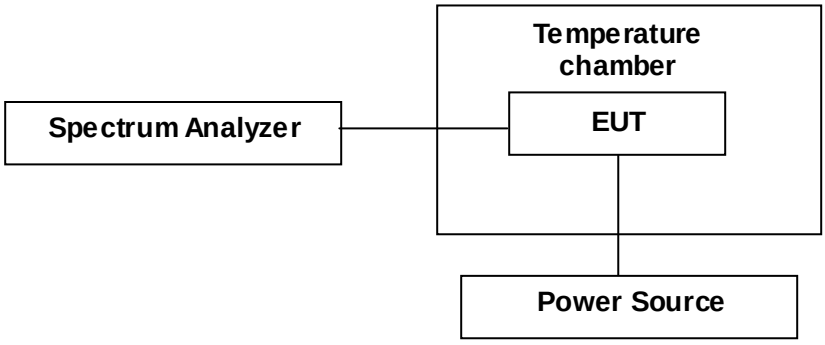


9. Frequency Stability

9.1 Limits

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

9.2 Test SET-UP (Block Diagram of Configuration)



9.3 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by Power source.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
   Note: The EUT set at un-modulation mode during frequency stability test.

9.4 Measurement Results

Pass

Please refer to following tables.

Temperature :	21 ℃	Humidity :	51 %
Test By:	Lee	Test Date :	June 28, 2019

5180~5240MHz Band

Lowest channel
5180MHz

Temperature (℃)	Power Supplied (AC)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120.0	5180.0172	5180.0142	5180.0159	5180.0132	Pass
10		5180.0133	5180.0169	5180.0140	5180.0145	Pass
20		5180.0140	5180.0164	5180.0165	5180.0139	Pass
30		5180.0169	5180.0135	5180.0149	5180.0142	Pass
45		5180.0126	5180.0145	5180.0177	5180.0152	Pass
60		5180.0165	5180.0135	5180.0139	5180.0130	Pass
20	138.0	5180.0182	5180.0174	5180.0143	5180.0135	Pass
	102.0	5180.0125	5180.0186	5180.0169	5180.0145	Pass

Note: EUT temperature working range is 0 to 46.

Temperature :	21 ℃	Humidity :	51 %
Test By:	Lee	Test Date :	June 28, 2019

5180~5240MHz Band

Highest channel
5240MHz

Temperature (℃)	Power Supplied (Vdc)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120.0	5240.0121	5240.0227	5240.0170	5240.0135	Pass
10		5240.0154	5240.0132	5240.0135	5240.0144	Pass
20		5240.0137	5240.0149	5240.0151	5240.0136	Pass
30		5240.0175	5240.0127	5240.0156	5240.0159	Pass
45		5240.0139	5240.0135	5240.0135	5240.0141	Pass
60		5240.0144	5240.0130	5240.0147	5240.0130	Pass
20	138.0	5240.0133	5240.0135	5240.0137	5240.0164	Pass
	102.0	5240.0135	5240.0129	5240.0112	5240.0155	Pass

Note: EUT temperature working range is 0 to 60.

Temperature :	21 ℃	Humidity :	51 %
Test By:	Lee	Test Date :	June 28, 2019

5745~5825MHz Band

Lowest channel
5745MHz

Temperature (℃)	Power Supplied (Vdc)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120.0	5745.0144	5745.0132	5745.0164	5745.0134	Pass
10		5745.0132	5745.0147	5745.0138	5745.0148	Pass
20		5745.0129	5745.0148	5745.0174	5745.0159	Pass
30		5745.0125	5745.0132	5745.0135	5745.0134	Pass
45		5745.0141	5745.0125	5745.0153	5745.0181	Pass
60		5745.0138	5745.0126	5745.0150	5745.0146	Pass
20	138.0	5745.0158	5745.0128	5745.0142	5745.0146	Pass
	102.0	5745.0139	5745.0166	5745.0170	5745.0145	Pass

Note: EUT temperature working range is 0 to 60.

Temperature :	21 ℃	Humidity :	51 %
Test By:	Lee	Test Date :	June 28, 2019

5745~5825MHz Band

Highest channel
5825MHz

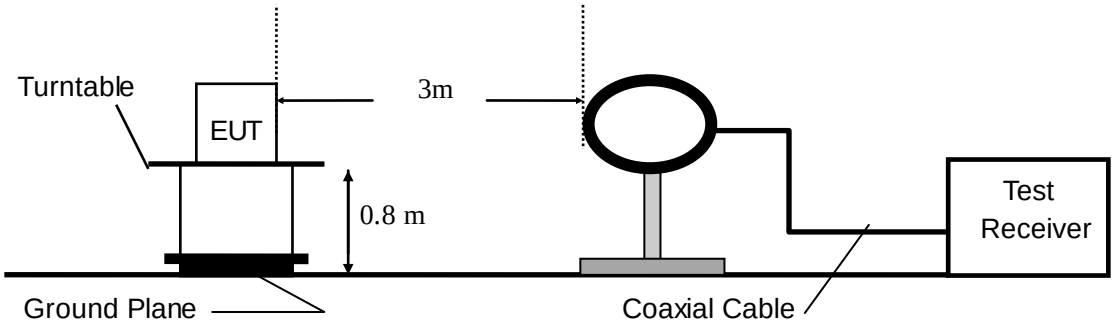
Temperature (℃)	Power Supplied (Vdc)	Measured Frequency (MHz)				Test Result
		0 Minute	2 Minute	5 Minute	10 Minute	
0	120.0	5825.0139	5825.0141	5825.0139	5825.0175	Pass
10		5825.0155	5825.0165	5825.0177	5825.0123	Pass
20		5825.0133	5825.0160	5825.0134	5825.0139	Pass
30		5825.0145	5825.0138	5825.0142	5825.0176	Pass
45		5825.0159	5825.0143	5825.0154	5825.0175	Pass
60		5825.0168	5825.0124	5825.0165	5825.0160	Pass
20	138.0	5825.0162	5825.0153	5825.0140	5825.0156	Pass
	102.0	5825.0134	5825.0145	5825.0169	5825.0175	Pass

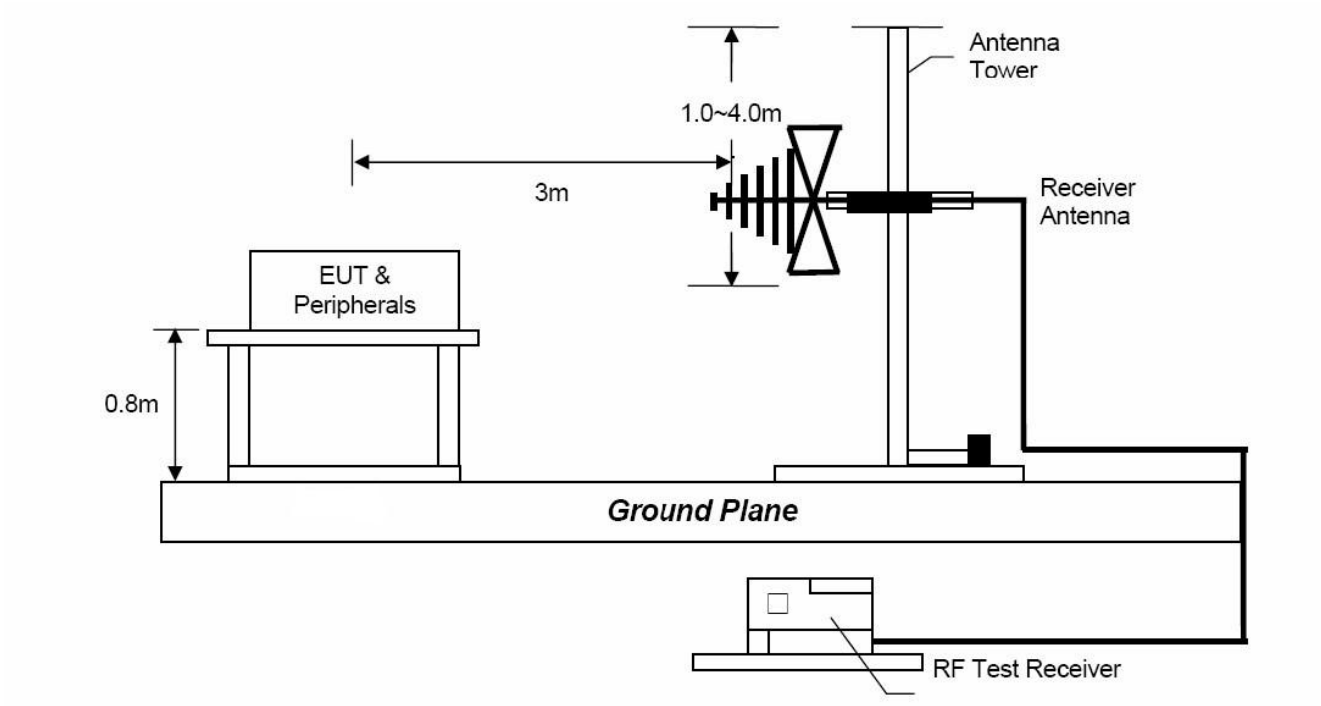
Note: EUT temperature working range is 0 to 60.

10. Radiated Spurious Emissions and Restricted Bands

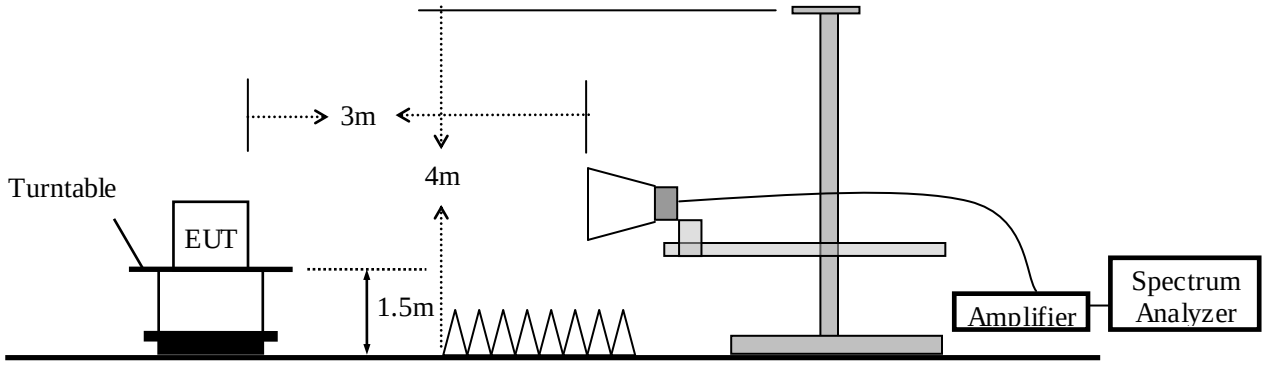
10.1 Test SET-UP (Block Diagram of Configuration)

10.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz





10.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



10.2 Measurement Procedure

a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
b. For the radiated emission test above 1GHz:
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	1/T

10.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209) μV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark：(1) Emission level (dB)μV = 20 log Emission level μV/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
(4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
(5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

10.4 Measurement Results

For 5G WIFI Band 1
Please refer to following plots of the worst case: 802.11n(HT20) high channel.

For 5G WIFI Band 4
Please refer to following plots of the worst case: 802.11n (HT40) middle channel.

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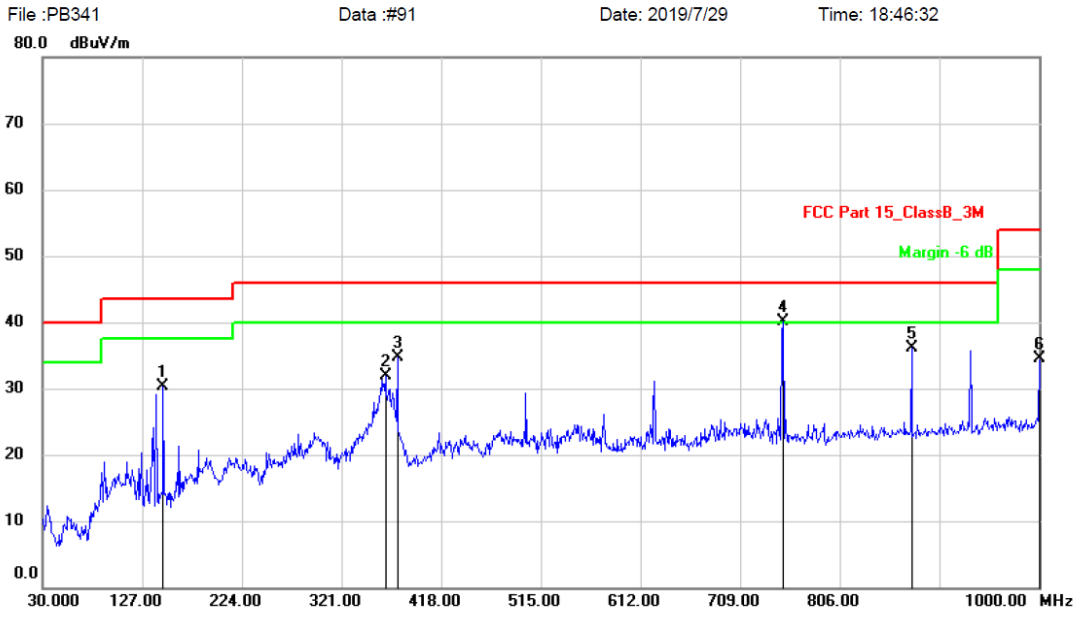
Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 1)
Note: FY1206000

Polarization: *Horizontal*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		147.3700	45.78	-15.55	30.23	43.50	-13.27	QP			
2		363.6800	41.15	-9.15	32.00	46.00	-14.00	QP			
3		375.3200	43.99	-9.19	34.80	46.00	-11.20	QP			
4	*	750.7100	42.59	-2.58	40.01	46.00	-5.99	QP			
5		875.8400	37.25	-1.15	36.10	46.00	-9.90	QP			
6		1000.0000	34.68	-0.25	34.43	54.00	-19.57	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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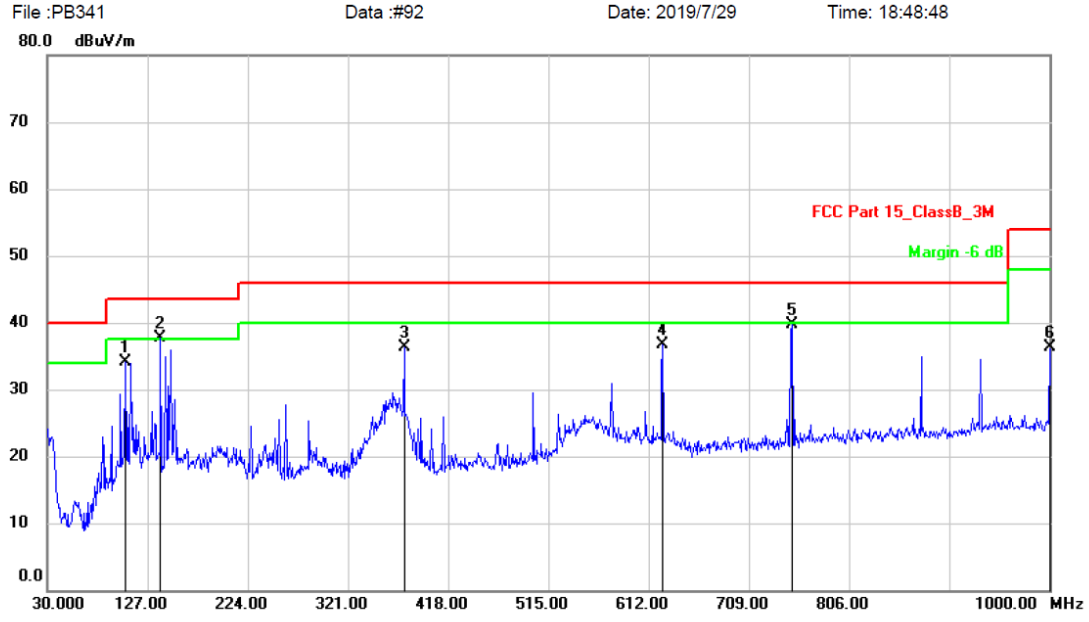
Web: Http://www.ntc-c.com

Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 1)
Note: FY1206000

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		105.6600	50.04	-15.97	34.07	43.50	-9.43	QP			
2	*	139.6100	56.29	-18.57	37.72	43.50	-5.78	QP			
3		375.3200	47.44	-11.19	36.25	46.00	-9.75	QP			
4		625.5800	43.61	-6.81	36.80	46.00	-9.20	QP			
5		750.7100	42.20	-2.58	39.62	46.00	-6.38	QP			
6		1000.0000	36.63	-0.25	36.38	54.00	-17.62	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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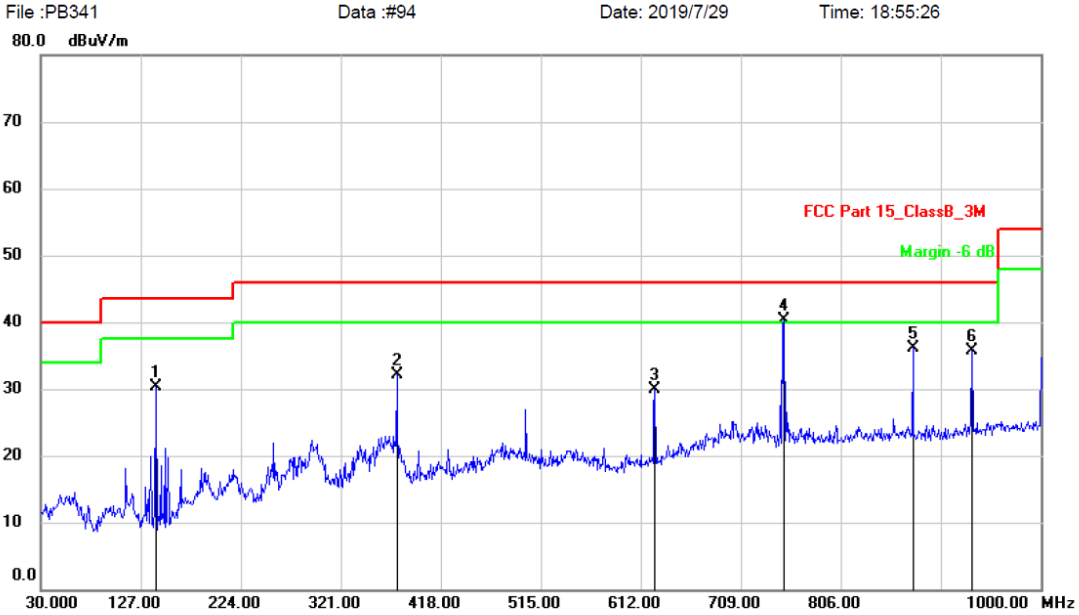
Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 4)
Note: FY1206000

Polarization: ***Horizontal***
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		141.5500	45.88	-15.59	30.29	43.50	-13.21	QP			
2		375.3200	41.20	-9.19	32.01	46.00	-13.99	QP			
3		625.5800	34.95	-5.09	29.86	46.00	-16.14	QP			
4	*	750.7100	42.87	-2.58	40.29	46.00	-5.71	QP			
5		875.8400	37.34	-1.15	36.19	46.00	-9.81	QP			
6		933.0700	36.26	-0.56	35.70	46.00	-10.30	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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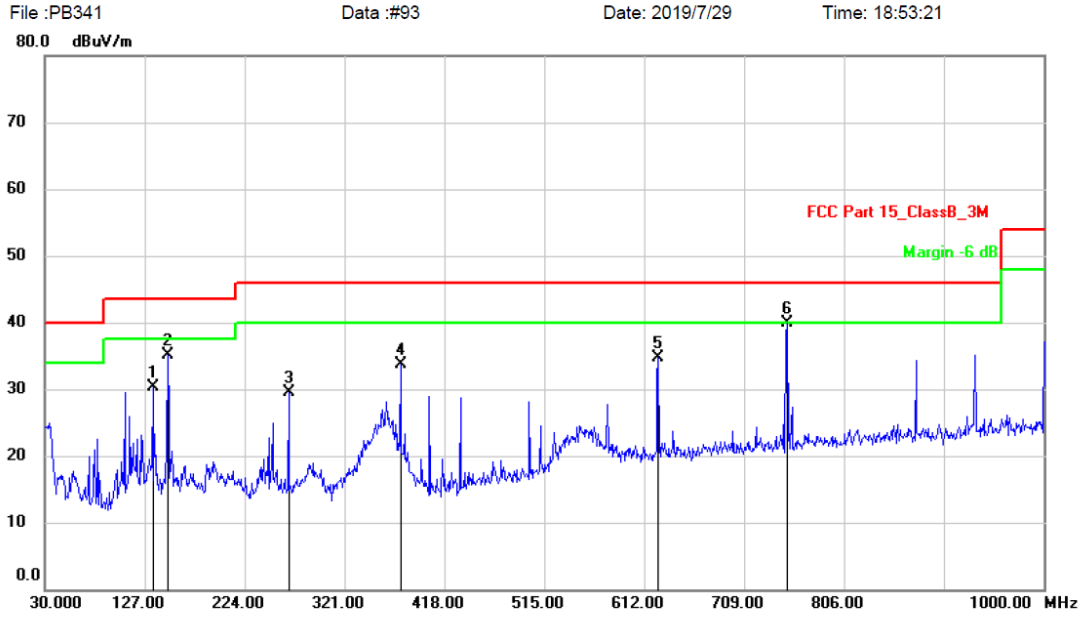
Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 4)
Note: FY1206000

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		134.7600	48.73	-18.36	30.37	43.50	-13.13	QP			
2		149.3100	53.60	-18.52	35.08	43.50	-8.42	QP			
3		266.6800	42.87	-13.27	29.60	46.00	-16.40	QP			
4		375.3200	44.84	-11.19	33.65	46.00	-12.35	QP			
5		625.5800	41.47	-6.81	34.66	46.00	-11.34	QP			
6	*	750.7100	42.48	-2.58	39.90	46.00	-6.10	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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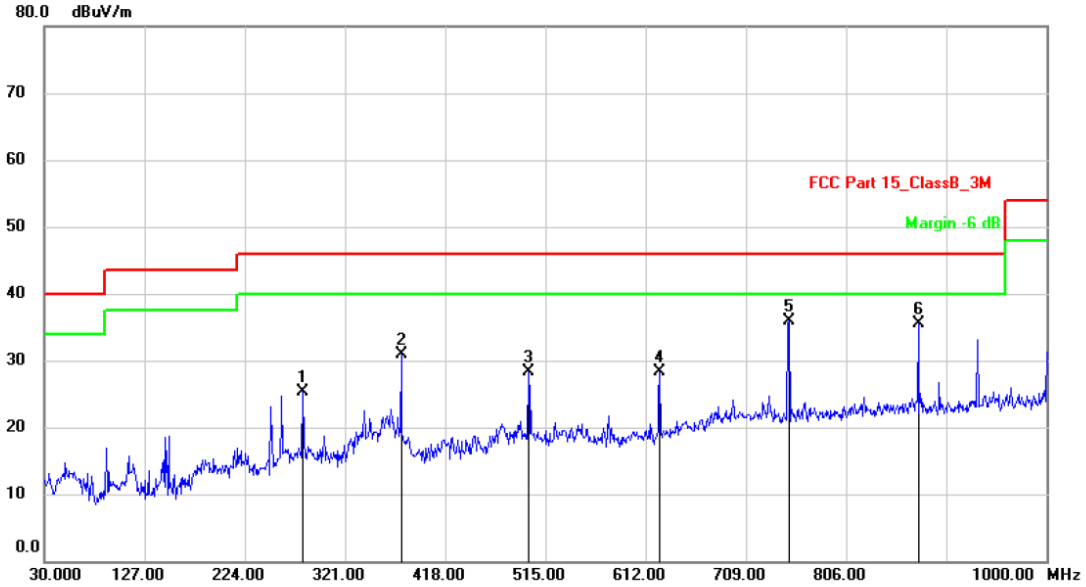
Radiated Emission Measurement

File :PB341 Data :#95 Date: 2019/7/29 Time: 18:57:07



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 1)
Note: LYD1266000

Polarization: ***Horizontal***
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		280.2600	36.22	-10.97	25.25	46.00	-20.75	QP			
2		375.3200	40.11	-9.19	30.92	46.00	-15.08	QP			
3		498.5100	35.00	-6.79	28.21	46.00	-17.79	QP			
4		625.5800	33.40	-5.09	28.31	46.00	-17.69	QP			
5	*	750.7100	38.52	-2.58	35.94	46.00	-10.06	QP			
6		875.8400	36.59	-1.15	35.44	46.00	-10.56	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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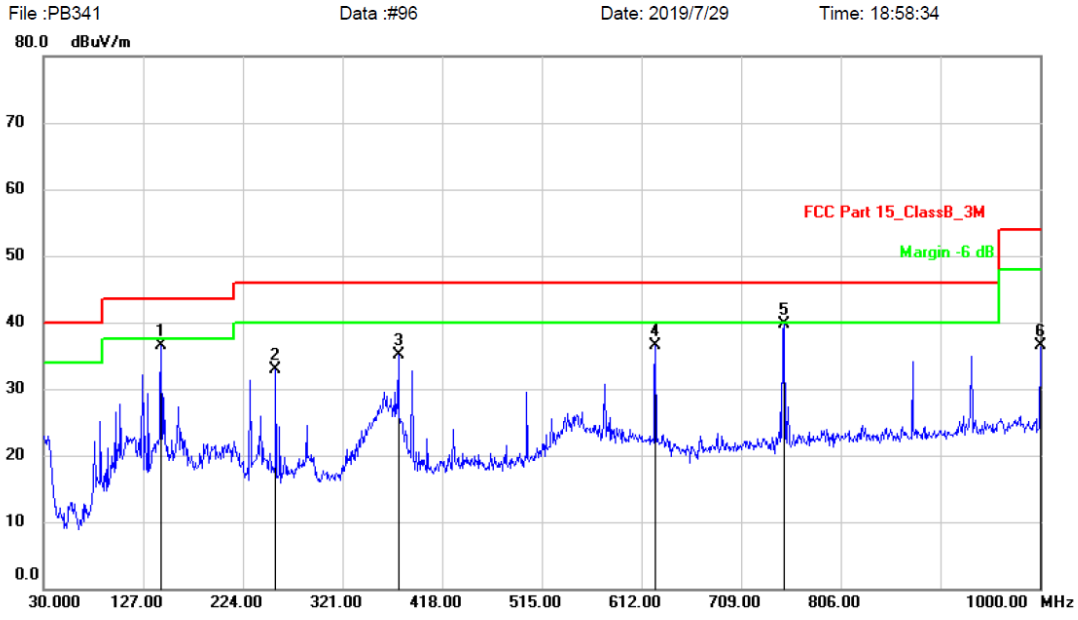
Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 1)
Note: LYD1266000

Polarization: ***Vertical***
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		144.4600	55.01	-18.60	36.41	43.50	-7.09	QP			
2		256.0100	46.43	-13.54	32.89	46.00	-13.11	QP			
3		375.3200	46.21	-11.19	35.02	46.00	-10.98	QP			
4		625.5800	43.35	-6.81	36.54	46.00	-9.46	QP			
5	*	750.7100	42.29	-2.58	39.71	46.00	-6.29	QP			
6		1000.0000	36.78	-0.25	36.53	54.00	-17.47	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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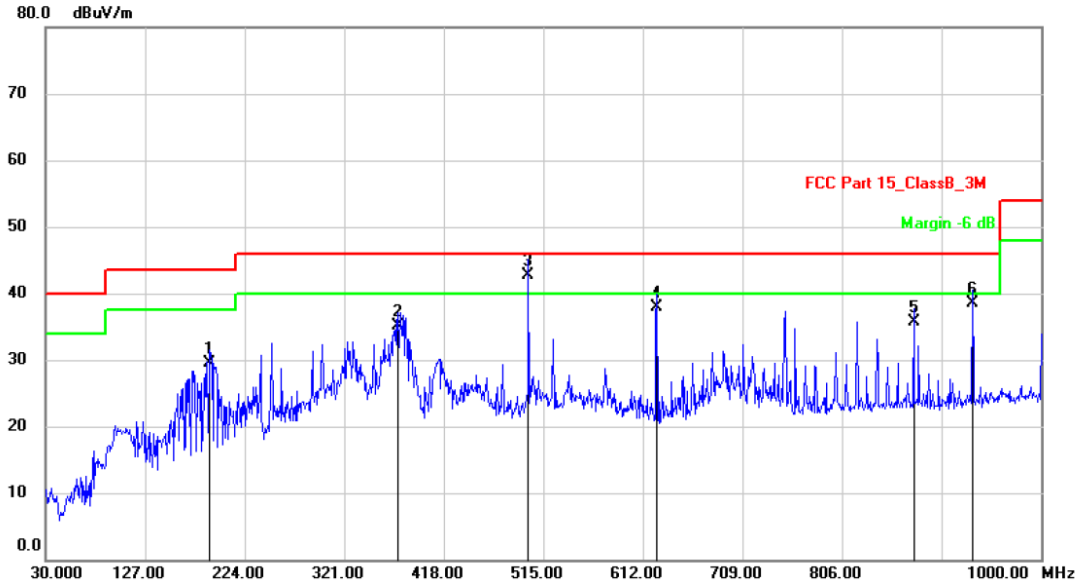
Radiated Emission Measurement

File :PB341 Data :#99 Date: 2019/7/29 Time: 8:44:48



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 4)
Note: LYD1266000

Polarization: *Horizontal*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		190.0500	43.17	-13.57	29.60	43.50	-13.90	QP			
2		373.3800	44.38	-9.18	35.20	46.00	-10.80	QP			
3	*	500.4500	49.46	-6.76	42.70	46.00	-3.30	QP			
4		625.5800	42.99	-5.09	37.90	46.00	-8.10	QP			
5		875.8400	36.95	-1.15	35.80	46.00	-10.20	QP			
6		933.0700	39.06	-0.56	38.50	46.00	-7.50	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

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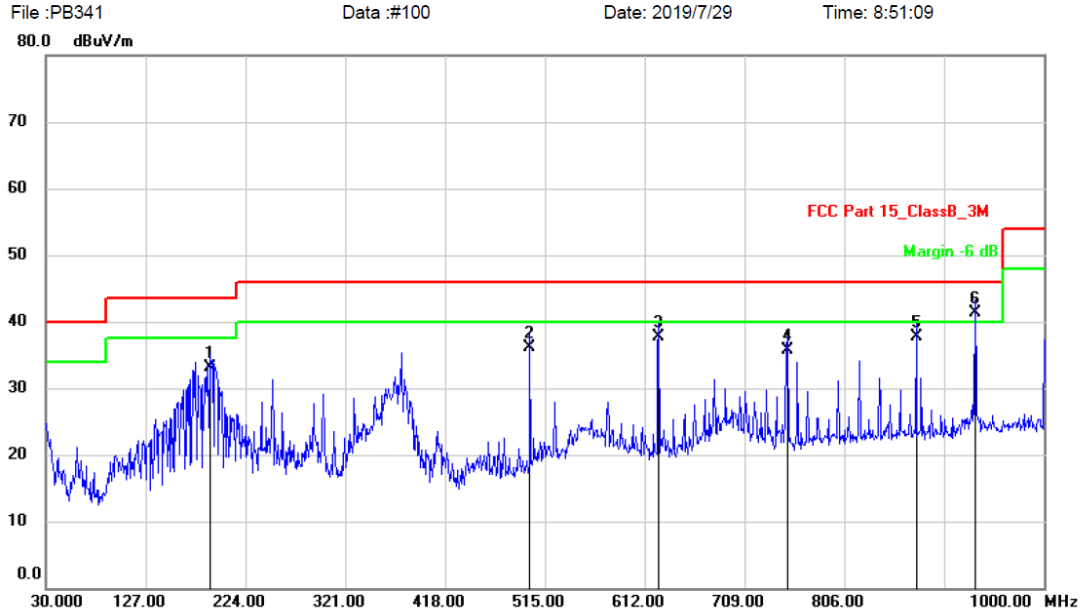
Radiated Emission Measurement



Site
Limit: FCC Part 15_ClassB_3M
EUT: PHIMAX3D PANORAMIC CAMERA
M/N: PB341
Mode: TX(wifi 5G Band 4)
Note: LYD1266000

Polarization: *Vertical*
Power: AC120V/60Hz
Distance: 3m

Temperature: 26
Humidity: 47 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		189.0800	49.83	-16.63	33.20	43.50	-10.30	QP			
2		500.4500	44.96	-8.76	36.20	46.00	-9.80	QP			
3		625.5800	44.51	-6.81	37.70	46.00	-8.30	QP			
4		750.7100	38.38	-2.58	35.80	46.00	-10.20	QP			
5		875.8400	38.85	-1.15	37.70	46.00	-8.30	QP			
6	*	933.0700	41.86	-0.56	41.30	46.00	-4.70	QP			

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

Test Mode:	The worst case: 802.11n(HT20)	Test Date :	July 29, 2019
Frequency Range:	Above 1GHz	Temperature :	24℃
Test Result:	PASS	Humidity :	47 %
Measured Distance:	3m	Test By:	Lee

Band 1(5180-5240 MHz)

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
Operation Mode: TX Mode (Low)										
10360	V	46.36	31.31	14.04	60.40	45.35	74.00	54.00	-13.60	-8.65
15540	V	42.36	30.20	19.00	61.36	49.20	74.00	54.00	-12.64	-4.80

10360	H	46.6	31.43	14.04	60.64	45.47	74.00	54.00	-13.36	-8.53
15540	H	42.25	29.56	19.00	61.25	48.56	74.00	54.00	-12.75	-5.44

Operation Mode: TX Mode (Mid)										
10400	V	46.49	31.48	14.12	60.61	45.60	74.00	54.00	-13.39	-8.40
15600	V	43.06	25.93	20.20	63.26	46.13	74.00	54.00	-10.74	-7.87

10400	H	46.72	31.62	14.12	60.84	45.74	74.00	54.00	-13.16	-8.26
15600	H	41.34	27.76	20.20	61.54	47.96	74.00	54.00	-12.46	-6.04

Operation Mode: TX Mode (High)										
10480	V	46.04	31.28	14.29	60.33	45.57	74.00	54.00	-13.67	-8.43
15720	V	41.21	25.11	20.82	62.03	45.93	74.00	54.00	-11.97	-8.07

10480	H	46.44	31.37	14.29	60.73	45.66	74.00	54.00	-13.27	-8.34
15720	H	42.68	26.41	20.82	63.50	47.23	74.00	54.00	-10.50	-6.77

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level + Factor
(3) Factor= Antenna Gain + Cable Loss – Amplifier Gain
(4) Data of measurement within this frequency range shown " ---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
(5) Measurement uncertainty : ±3.7dB.
(6) Horn antenna used for the emission over 1000MHz.
(7) Both of adapter have been tested, but only the worst case (adapter 1) was recorded.

Test Mode:	The worst case: 802.11n(HT40)	Test Date :	July 29, 2019
Frequency Range:	Above 1GHz	Temperature :	24℃
Test Result:	PASS	Humidity :	47 %
Measured Distance:	3m	Test By:	Lee

Band4 (5745-5825 MHz)

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
Operation Mode: TX Mode (Low)										
11510	V	45.41	30.19	17.04	62.45	47.23	74.00	54.00	-11.55	-6.77
17265	V	42.97	26.47	22.31	65.28	48.78	74.00	54.00	-8.72	-5.22

11510	H	46.65	29.77	17.04	63.69	46.81	74.00	54.00	-10.31	-7.19
17265	H	47.04	27.20	22.31	69.35	49.51	74.00	54.00	-4.65	-4.49

Operation Mode: TX Mode (High)										
11590	V	48.20	31.92	16.91	65.11	48.83	74.00	54.00	-8.89	-5.17
17385	V	43.63	27.80	22.72	66.35	50.52	74.00	54.00	-7.65	-3.48

11590	H	45.76	31.59	16.91	62.67	48.50	74.00	54.00	-11.33	-5.50
17385	H	45.44	23.78	22.72	68.16	46.50	74.00	54.00	-5.84	-7.50

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level + Factor
(3) Factor= Antenna Gain + Cable Loss – Amplifier Gain
(4) Data of measurement within this frequency range shown " ---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.
(5) Measurement uncertainty : ±3.7dB.
(6) Horn antenna used for the emission over 1000MHz.
(7) Both of adapter have been tested, but only the worst case (adapter 1) was recorded.

11. Antenna Application

11.1 Antenna requirement

According to of FCC part 15C section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section 15.203 of the rules.

And according to 47 CFR section 15.407(a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 Measurement Results

The EUT has two external antennas, which are:

Ant.	Brand	Model No.	Product Number	Antenna Type	Connector	Gain (dBi)
0	kinghelm	KH0WF-01-J	C252178	External plastic rod antenna	SMA in needle	3
1	kinghelm	KH0WF-01-J	C252178	External plastic rod antenna	SMA in needle	3

As the antenna connectors of EUT are non-standard and the antennas are specified above by manufacturer; it is considered to meet the standard requirements.

12. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2019	Mar. 13, 2020
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 23, 2019	Mar. 22, 2020
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Mar. 14, 2019	Mar. 13, 2020
Spectrum Analyzer	Keysight	N9020A	MY54200831	20Hz~26.5GHz	Apr. 24, 2019	Apr. 23, 2020
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 24, 2019	Apr. 23, 2020
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	15GHz~40GHz	Mar. 23, 2019	Mar. 22, 2020
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Apr. 24, 2019	Apr. 23, 2020
Power Sensor	DARE	RPR3006W	15I00041SNO64	100MHz~6GHz	Mar. 14, 2019	Mar. 13, 2020
Communication Tester	Rohde & Schwarz	CMW500	149004	70MHz~6GHz	Mar. 14, 2019	Mar. 13, 2020
Horn Antenna	COM-Power	AH-118	071078	500MHz~18GHz	Mar. 23, 2019	Mar. 22, 2020
Pre-Amplifier	HP	HP 8449B	3008A00964	1GHz~26.5GHz	Mar. 14, 2019	Mar. 13, 2020
Pre-Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2019	Mar. 13, 2020
Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	9KHz~30MHz	Apr. 24, 2019	Apr. 23, 2020
Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	-40~150℃	Apr. 24, 2019	Apr. 23, 2020
DC Source	MY	MY8811	N/A	0~30V	N/A	N/A
Temporary antenna connector	TESCOM	SS402	N/A	9KHz~25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Apr. 24, 2019	Apr. 23, 2020
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Apr. 24, 2019	Apr. 23, 2020
Test Software	EZ	EZ_EMC	N/A	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

---End---