FCC RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant	:	Yantai Trial Retail Engineering Co., Ltd
Address	:	4th Floor, Building G, No.300 Changjiang Road, Economic and Technological Development Zone, Yantai, Shandong, China
Manufacturer /Factory	:	Shenzhen shindy technology Co., LTD
Address	:	Bldg A10, Silicon Valley Power Low-Carbon Industrial Park, Guiyue Road,Zhangge Community, Guanlan Town, Longhua Distrct, Shenzhen
E.U.T.	:	Retail AI Camera Z2
Brand Name	:	Retail Eye
Model No.	:	Retail Eye-Z2
FCC ID	:	2AUB6-AICAM-02
Measurement Standard	:	47 CFR FCC PART 15 Subpart E (section 407)
Date of Receiver	:	August 16, 2019
Date of Test	:	August 17, 2019 to September 23, 2019
Date of Report	:	September 23, 2019

This Test Report is Issued Under the Authority of :

Prepared by

Sundiy jiang / Engineer

Approved & Authorized Signer

Tori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

Table of Contents

Revision History of This Test Report

Report Number	Description	Issued Date
NTC1908146FV00	Initial Issue	2019-09-23

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

E.U.T.	:	Retail AI Camera Z2
Main Model Name	:	Retail Eye-Z2
Brand Name	:	Retail Eye
E.U.T. Type	:	Class A
Power Supply	:	DC 5V From Micro USB Port DC 3.7V From internal battery
Test voltage	:	AC 120V 60Hz, AC 240V 60Hz (Only the worst case was recorded in this report)
Adapter	:	Manufacturer: Jihongda M/N: JHD-AP015J-050300BA-C Input: AC100-120V, ~50/60Hz, 0.45A Output: DC 5V 3A
Cable	:	DC Line: 1.20m unshielded.
Hardware version	:	V1.0
Software version	:	V1.0
Note	:	This report only applies to 5G WIFI function.

Technical parameters (For 5G U-NII-1 and U-NII-3)

Frequency Range	:	5180-5240MHz 5745-5825MHz
Modulation type	:	CCK, DQPSK, DBPSK for 802.11a 64-QAM,16-QAM, QPSK, BPSK for 802.11n
Modulation Technology	:	DSSS, OFDM
Number of Channel	:	U-NII-1: 4 Channel for 802.11a/n(HT20) 2 Channel for 802.11n(HT40) U-NII-3: 5 Channel for 802.11a/n(HT20) 2 Channel for 802.11n(HT40)
Antenna Type	:	PIFA antenna
Antenna Gain	:	4.15dBi

Channel list for 5GHz Band

Band 5180~5240MHz			
802.11a/n(HT20)/		802.11n(HT40)	
Channel	Frequency MHz	Channel	Frequency MHz
36	5180	38	5190
40	5200	46	5230
44	5220	-	-
48	5240	-	-

Band 5745~5825MHz			
802.11a/n(HT20)		802.11n(HT40)	
Channel	Frequency MHz	Channel	Frequency MHz
149	5745	151	5755
153	5765	159	5795
157	5785	-	-
161	5805	-	-
165	5825	-	-

Note: According to section 15.31(m), regards to the operating frequency range over 10MHz, the Lowest, middle, and the Highest frequency of channel were selected to perform the test. The selected frequency see below:

Band 5180~5240MHz		Band 5745~5825MHz	
802.11a/n(HT20)		802.11a/n(HT20)	
Channel	Frequency MHz	Channel	Frequency MHz
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825
802.11n(HT40)		802.11n(HT40)	
38	5190	151	5755
46	5230	159	5795

Test SW version	EngineerMode.apk

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AUB6-AICAM-02 filing to comply with Section 15.407 of the FCC Part 15 subpart E Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters. All other measurements were made in accordance with the procedures in 47 CFR part 2.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

Monitor	:	Manufacturer: DELL M/N: S2240Tb S/N: CN-0FP53P-74261-3AL-0CYU
Adapter (For monitor)	:	Manufacturer: CWT M/N: KPL-050F-VI I/P:AC100-240V50/60Hz,1.7A O/P:12V4.17A 50W
Mouse	:	Manufacturer: DELL M/N:MS116p Input:5V100mA CE, FCC: DOC,IC,VCCI,RCM

1.6 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018
The certificate is valid until August 13, 2024
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01
The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017
The certificate is valid until December 31, 2019
The Laboratory has been assessed and proved to be in compliance with ISO17025
The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017
The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.
(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207 (a)	AC Power Conducted Emission	±1.06dB	Compliant
§15.407(a)	Max. Conducted Output Power	±1.06dB	Compliant
§15.407(a)	26dB Spectrum Bandwidth and 99% Occupied Bandwidth	±1.42 x10^{-4}%	Compliant
§15.407(e)	6dB Bandwidth	±1.42 x10^{-4}%	Compliance
§15.407(a)	Power Spectral Density	±1.70dB	Compliance
§15.407(b) §15.209 §15.205	Radiated Emissions	±3.70dB	Compliance
§15.407(b)	Band Edge Emissions	±1.06dB	Compliance
§15.407(g)	Frequency Stability	±8.42 x10^{-8}	Compliance
§15.203	Antenna Requirement	---	Compliance

2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 Special Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under continuous operating condition. Test program used to control the EUT staying in continuous transmitting mode. The Lowest, middle and highest channel were chosen for testing, and modulation type CCK, DQPSK, DBPSK, OFDM, OFDM-BPSK, QPSK, 16QAM, 256QAM and all data rate were tested. But only the worst case data is shown in this report.

2.4 EUT Exercise

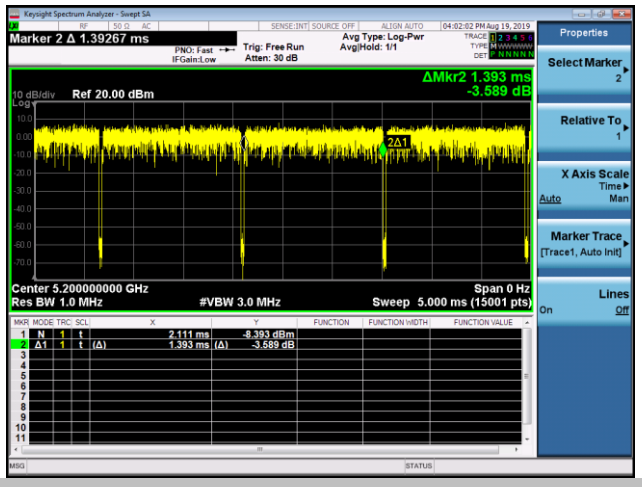
The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.5 Duty cycle

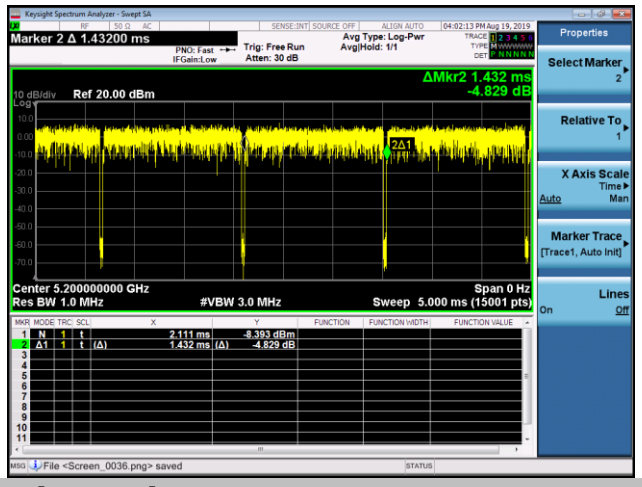
Operation Band (MHz)	Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T minimum VBW (kHz)
5180~5240	802.11a	1.3930	1.4320	97.28%	0.0390
	802.11n(HT20)	1.3000	1.3430	96.80%	0.0430
	802.11n(HT40)	0.6484	0.6828	94.96%	0.0344
5745~5825	802.11a	1.3850	1.4280	96.99%	0.0430
	802.11n(HT20)	1.3010	1.3360	97.38%	0.0350
	802.11n(HT40)	0.6501	0.6828	95.21%	0.0327

Band 5180-5240MHz
IEEE 802.11a

Ton

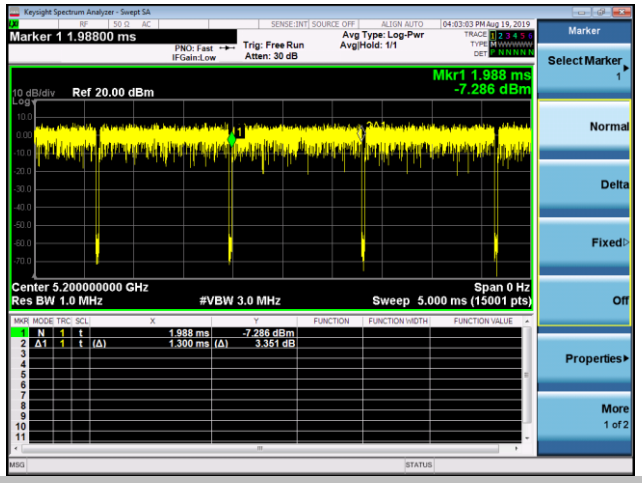


Ton+off

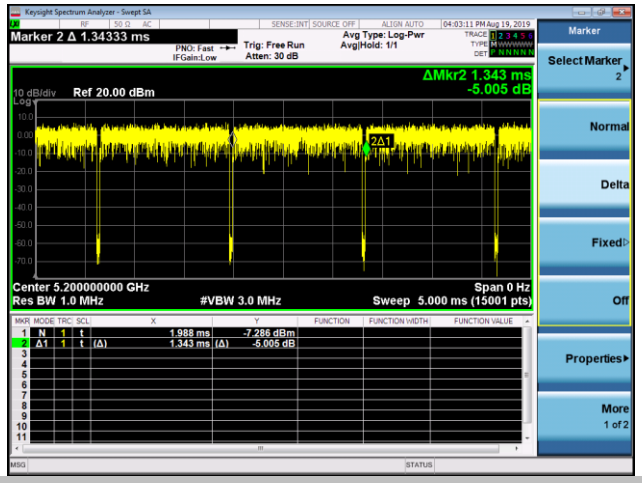


IEEE 802.11n(HT20)

Ton

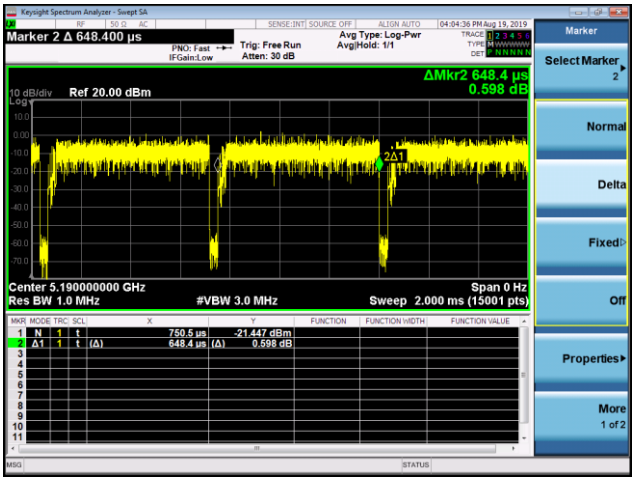


Ton+off



802.11n(HT40)

Ton



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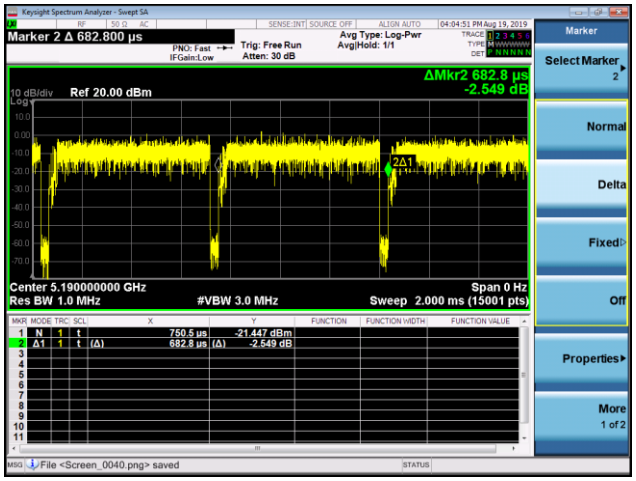
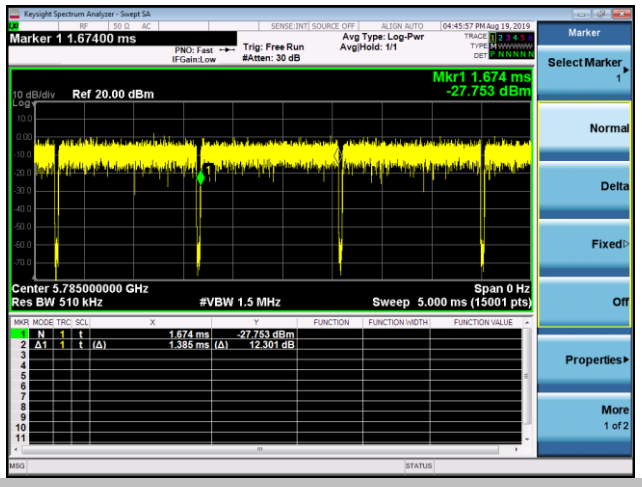
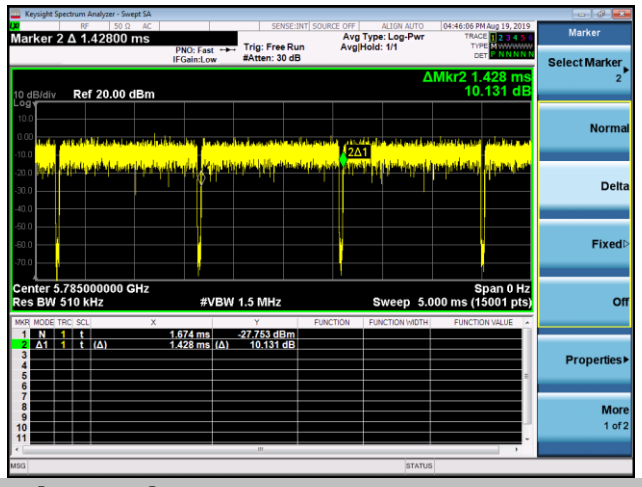


Band 5745-5825MHz
IEEE 802.11a

Ton

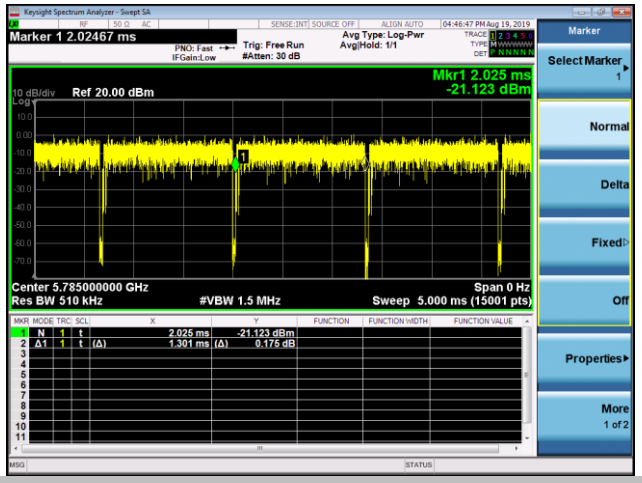


Ton+off

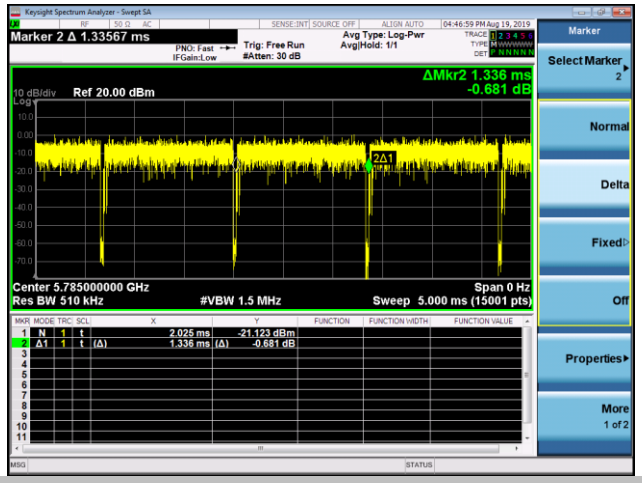


IEEE 802.11n(HT20)

Ton

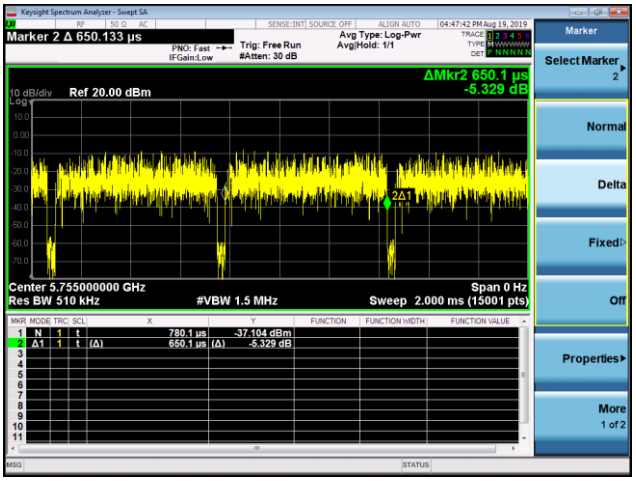


Ton+off

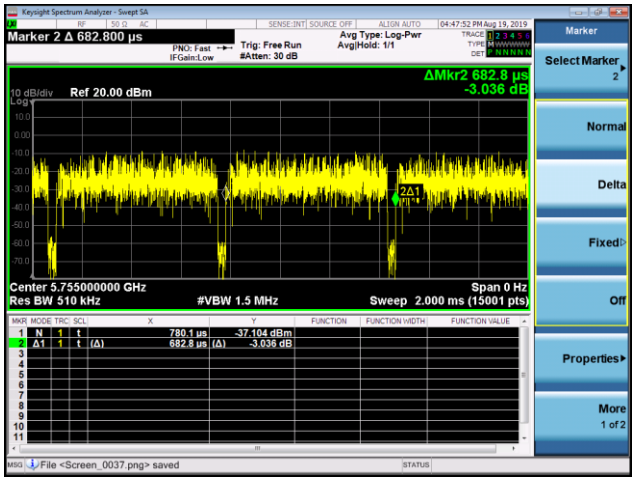


802.11n(HT40)

Ton

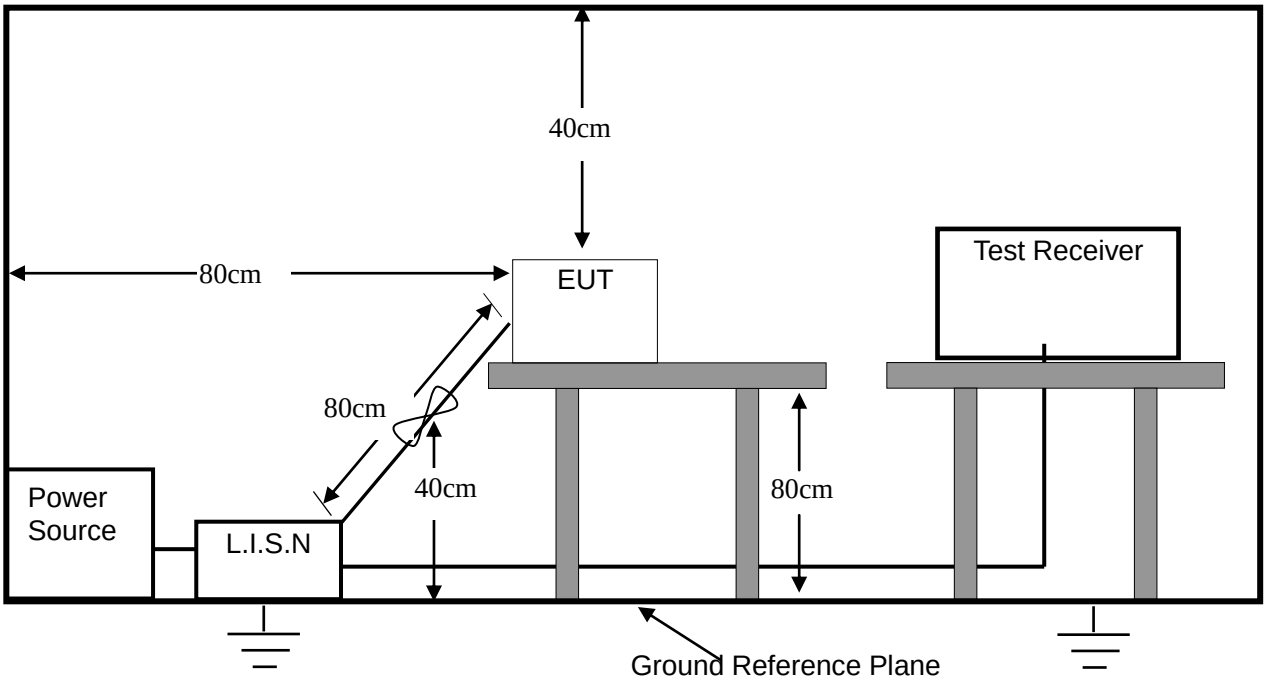


Ton+off



3. Conducted Emissions Test

3.1 Test SET-UP (Block Diagram of Configuration)



3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: TX, TX+Charging

3.3 Measurement Results

Please refer to following plots of the worst case: 802.11a low channel (U-NII-1) and 802.11n(HT20) middle channel (U-NII-3).

Dongguan NTC Co., Ltd.
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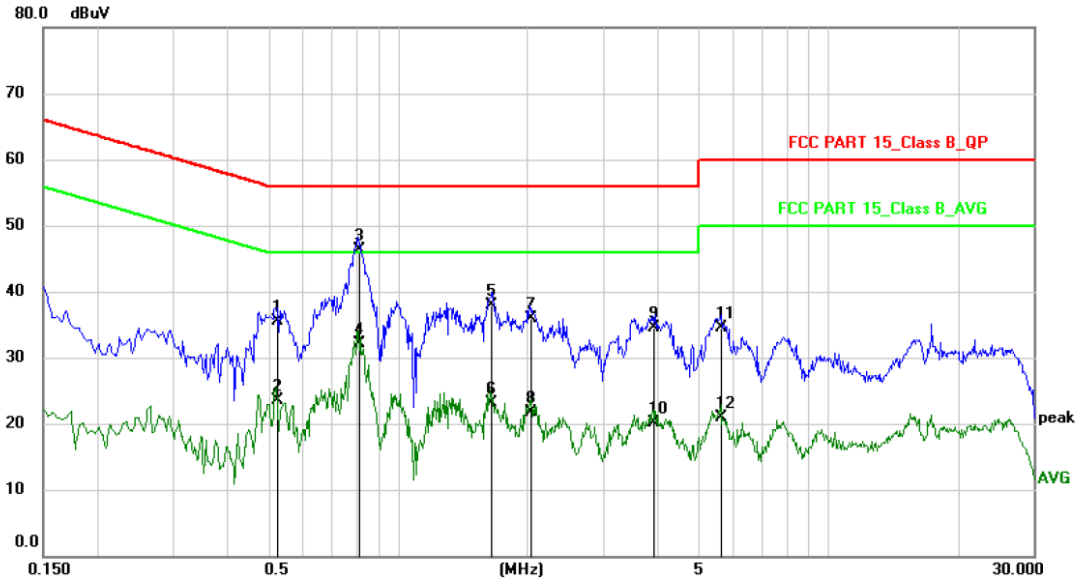
Web: Http://www.ntc-c.com

Conducted Emission Measurement

File :Retail Eye-Z2-new Data :#5 Date: 2019/9/23 Time: 22:40:44



Site
Limit: FCC PART 15_Class B_QP
EUT: Retail AI Camera Z2
M/N: Retail Eye-Z2
Mode: Charging+TX(U-NII-1)
Note:

Phase: *L1*
Power: AC120V/60Hz

Temperature: 26
Humidity: 50 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5220	24.97	10.63	35.60	56.00	-20.40	QP	
2		0.5220	12.97	10.63	23.60	46.00	-22.40	AVG	
3	*	0.8100	35.63	10.67	46.30	56.00	-9.70	QP	
4		0.8100	21.53	10.67	32.20	46.00	-13.80	AVG	
5		1.6380	27.20	10.70	37.90	56.00	-18.10	QP	
6		1.6380	12.50	10.70	23.20	46.00	-22.80	AVG	
7		2.0260	25.20	10.70	35.90	56.00	-20.10	QP	
8		2.0260	11.00	10.70	21.70	46.00	-24.30	AVG	
9		3.9420	23.79	10.71	34.50	56.00	-21.50	QP	
10		3.9420	9.39	10.71	20.10	46.00	-25.90	AVG	
11		5.6459	23.78	10.72	34.50	60.00	-25.50	QP	
12		5.6459	10.18	10.72	20.90	50.00	-29.10	AVG	

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Conducted Emission Measurement

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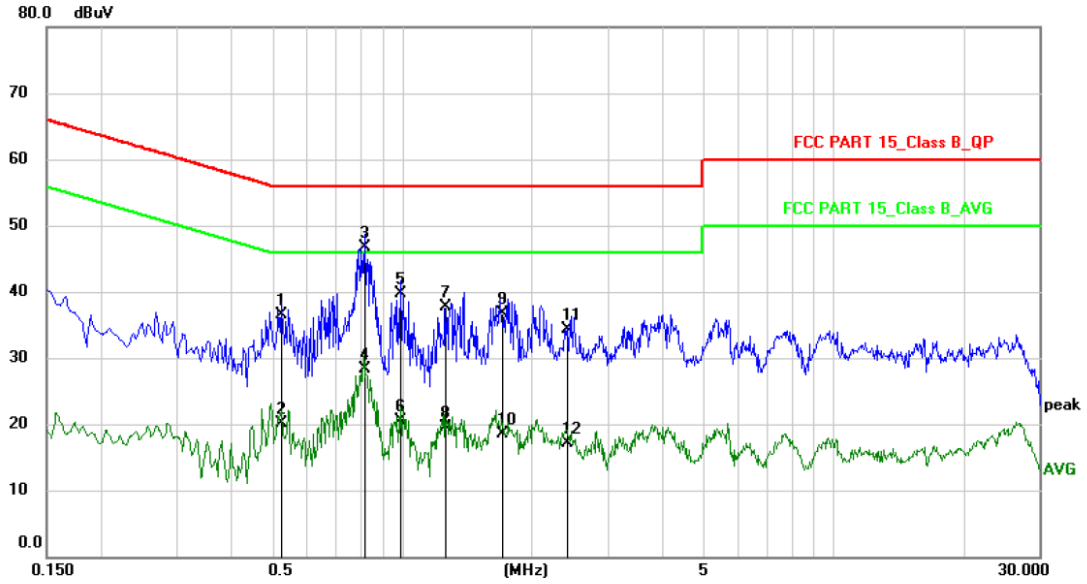

Site
Limit: FCC PART 15_Class B_QP
EUT: Retail AI Camera Z2
M/N: Retail Eye-Z2
Mode: Charging+TX(U-NII-1)
Note:

Phase: *N*
Power: AC120V/60Hz

Temperature: 26
Humidity: 50 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5260	25.87	10.63	36.50	56.00	-19.50	QP	
2		0.5260	9.47	10.63	20.10	46.00	-25.90	AVG	
3	*	0.8139	36.03	10.67	46.70	56.00	-9.30	QP	
4		0.8139	17.63	10.67	28.30	46.00	-17.70	AVG	
5		0.9940	29.00	10.70	39.70	56.00	-16.30	QP	
6		0.9940	9.90	10.70	20.60	46.00	-25.40	AVG	
7		1.2620	27.10	10.70	37.80	56.00	-18.20	QP	
8		1.2620	8.90	10.70	19.60	46.00	-26.40	AVG	
9		1.7060	26.10	10.70	36.80	56.00	-19.20	QP	
10		1.7060	7.90	10.70	18.60	46.00	-27.40	AVG	
11		2.4180	23.60	10.70	34.30	56.00	-21.70	QP	
12		2.4180	6.40	10.70	17.10	46.00	-28.90	AVG	

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Conducted Emission Measurement

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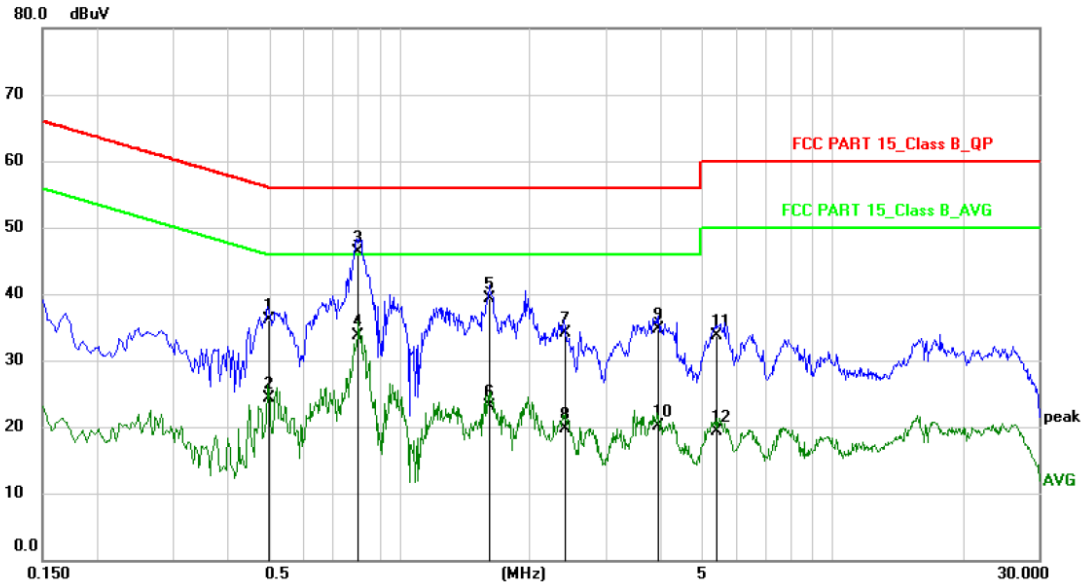

Site
Limit: FCC PART 15_Class B_QP
EUT: Retail AI Camera Z2
M/N: Retail Eye-Z2
Mode: Charging+TX(U-NII-3)
Note:

Phase: *L1*
Power: AC120V/60Hz

Temperature: 26
Humidity: 50 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4980	25.57	10.63	36.20	56.03	-19.83	QP	
2		0.4980	13.67	10.63	24.30	46.03	-21.73	AVG	
3	*	0.7980	35.63	10.67	46.30	56.00	-9.70	QP	
4		0.7980	23.13	10.67	33.80	46.00	-12.20	AVG	
5		1.6140	28.70	10.70	39.40	56.00	-16.60	QP	
6		1.6140	12.50	10.70	23.20	46.00	-22.80	AVG	
7		2.3980	23.40	10.70	34.10	56.00	-21.90	QP	
8		2.3980	9.00	10.70	19.70	46.00	-26.30	AVG	
9		3.9540	23.99	10.71	34.70	56.00	-21.30	QP	
10		3.9540	9.39	10.71	20.10	46.00	-25.90	AVG	
11		5.3940	22.99	10.71	33.70	60.00	-26.30	QP	
12		5.3940	8.69	10.71	19.40	50.00	-30.60	AVG	

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Conducted Emission Measurement

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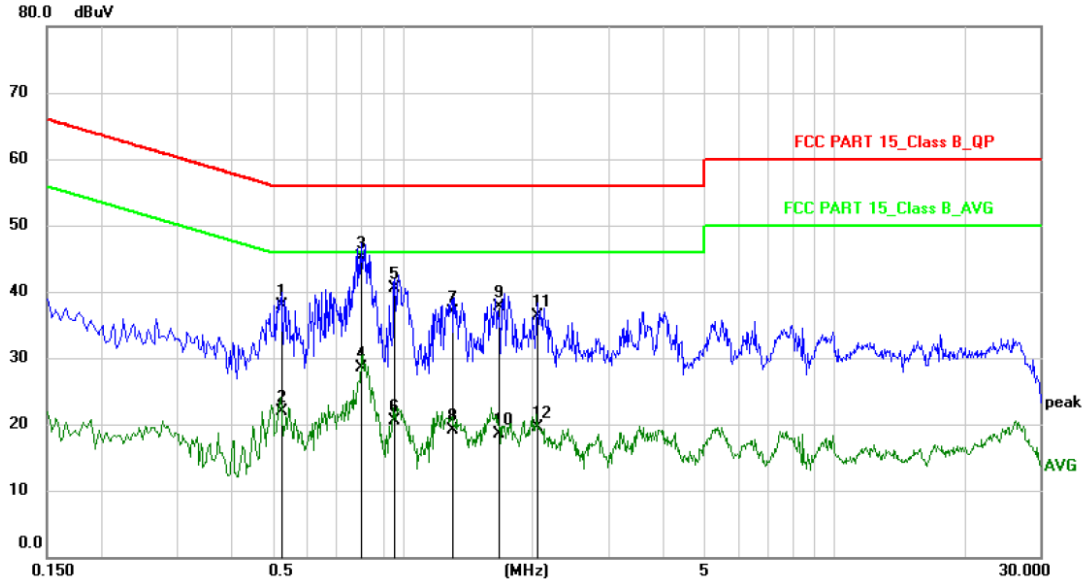


Site
Limit: FCC PART 15_Class B_QP
EUT: Retail AI Camera Z2
M/N: Retail Eye-Z2
Mode: Charging+TX(U-NII-3)
Note:

Phase: N
Power: AC120V/60Hz

Temperature: 26
Humidity: 50 %

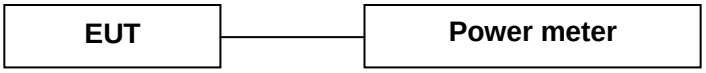
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5220	27.27	10.63	37.90	56.00	-18.10	QP	
2		0.5220	11.37	10.63	22.00	46.00	-24.00	AVG	
3	*	0.8020	34.53	10.67	45.20	56.00	-10.80	QP	
4		0.8020	17.83	10.67	28.50	46.00	-17.50	AVG	
5		0.9540	29.81	10.69	40.50	56.00	-15.50	QP	
6		0.9540	9.91	10.69	20.60	46.00	-25.40	AVG	
7		1.3020	26.30	10.70	37.00	56.00	-19.00	QP	
8		1.3020	8.40	10.70	19.10	46.00	-26.90	AVG	
9		1.6700	27.00	10.70	37.70	56.00	-18.30	QP	
10		1.6700	7.90	10.70	18.60	46.00	-27.40	AVG	
11		2.0540	25.60	10.70	36.30	56.00	-19.70	QP	
12		2.0540	8.80	10.70	19.50	46.00	-26.50	AVG	

4. Max. Conducted Output Power

4.1 Limits

Operation Band	EUT category	Limit
■5180~5240MHz	□Outdoor Access Point	1 Watt (30dBm) (Max. e.i.r.p ≤ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	□Fixed point-to-point Access Point	1 Watt (30dBm)
	□Indoor Access Point	1 Watt (30dBm)
	■Mobile and Portable client device	250mW (24dBm)
■5745~5825MHz	-	1 Watt (30dBm)

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Test Procedure

1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB789033 v01r03 for compliance testing of Unlicensed National Information Infrastructure (U-NII) Device -section (E) Maximum conducted output power. =3. Measurement using a power meter (PM) =b Method PM-G (Measurement using a gated RF average power meter).

4.4 Measurement Results

Pass

Please refer to following table.

Temperature :	23 ℃	Humidity :	52%
Test By:	Lee	Test Date :	August 19, 2019
Test Result:	PASS		

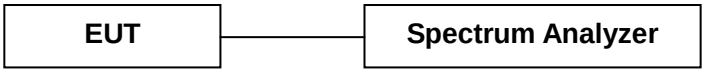
Frequency MHz	Data Rate Mbps	Peak Output Power dBm	Limit dBm
IEEE 802.11a Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5180	6	13.94	24
Middle Channel: 5200	6	13.40	24
High Channel: 5240	6	13.50	24
IEEE 802.11n(HT20)Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5180	MCS0	13.07	24
Middle Channel: 5200	MCS0	13.38	24
High Channel: 5240	MCS0	13.30	24
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5190	MCS0	13.02	24
High Channel: 5230	MCS0	13.08	24
IEEE 802.11a Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5745	6	9.83	30
Middle Channel: 5785	6	10.44	30
High Channel: 5825	6	10.27	30
IEEE 802.11n(HT20)Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5745	MCS0	9.66	30
Middle Channel: 5785	MCS0	10.54	30
High Channel: 5825	MCS0	9.97	30
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.15dBi)			
Low Channel: 5755	MCS0	9.31	30
High Channel: 5795	MCS0	10.13	30

5. 6dB Bandwidth

5.1 Limits

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Test Procedure

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to FCC KDB789033(v01r03):

1. For 6dB bandwidth, Set the RBW = 100KHz.
2. Set the VBW ≥ 3 x RBW
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Measurement Results

Pass

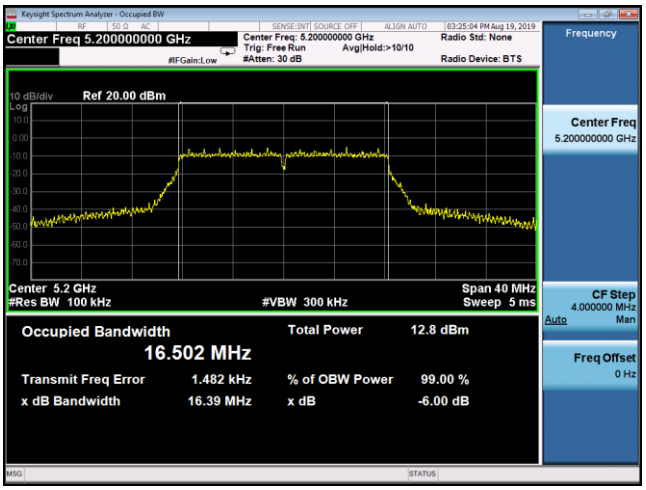
Please refer to following table and plots.

Temperature :	21 ℃	Humidity : 54 %	
Test By:	Lee	Test Date : August 19, 2019	
Test Result:	PASS		
Frequency MHz	Data Rate Mbps	6dB Bandwidth MHz	Limit
IEEE 802.11a Mode (CCK)			
Low Channel: 5180	6	16.42	>500KHz
Middle Channel: 5200	6	16.39	>500KHz
High Channel: 5240	6	16.39	>500KHz
IEEE 802.11n(HT20) Mode (OFDM)			
Low Channel: 5180	MCS0	17.61	>500KHz
Middle Channel: 5200	MCS0	17.64	>500KHz
High Channel: 5240	MCS0	17.63	>500KHz
IEEE 802.11n(HT40) Mode (OFDM)			
Low Channel: 5190	MCS0	36.36	>500KHz
High Channel: 5230	MCS0	36.33	>500KHz
IEEE 802.11a Mode (CCK)			
Low Channel: 5745	6	16.39	>500KHz
Middle Channel: 5785	6	16.42	>500KHz
High Channel: 5825	6	16.43	>500KHz
IEEE 802.11n(HT20) Mode (OFDM)			
Low Channel: 5745	MCS0	17.65	>500KHz
Middle Channel: 5785	MCS0	17.63	>500KHz
High Channel: 5825	MCS0	17.62	>500KHz
IEEE 802.11n(HT40) Mode (OFDM)			
Low Channel: 5755	MCS0	36.34	>500KHz
High Channel: 5795	MCS0	36.34	>500KHz

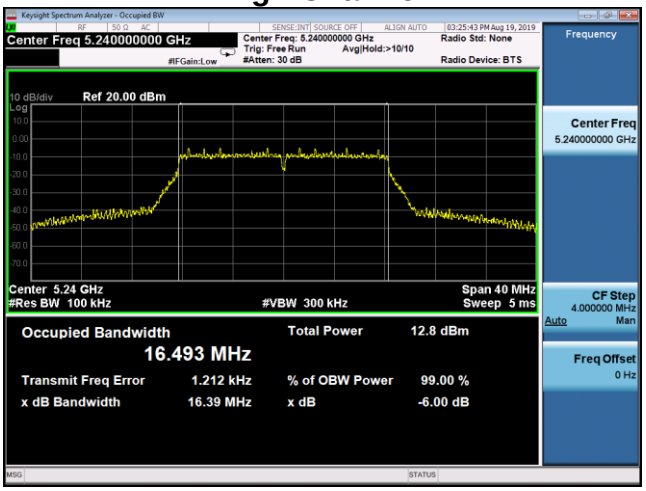
Band 5180-5240MHz
IEEE 802.11a

Low Channel

Middle Channel

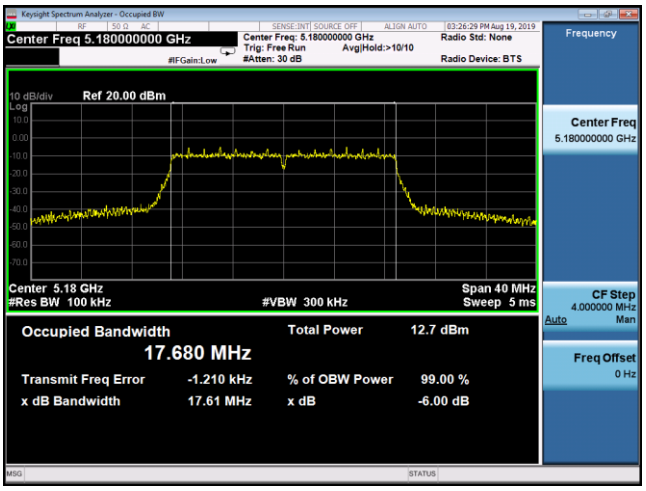


High Channel

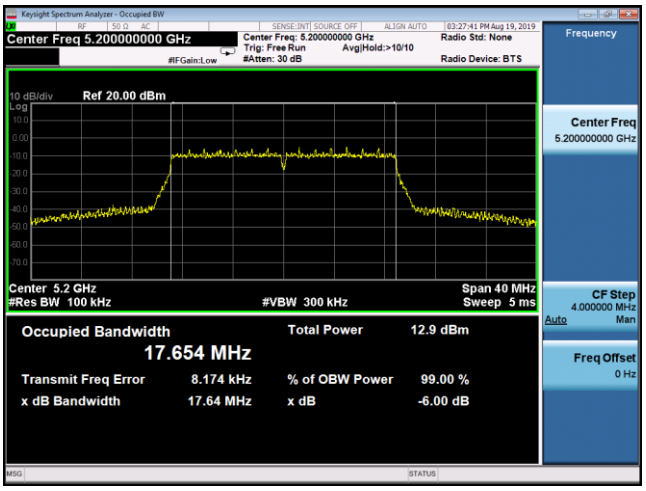


802.11n(HT20)

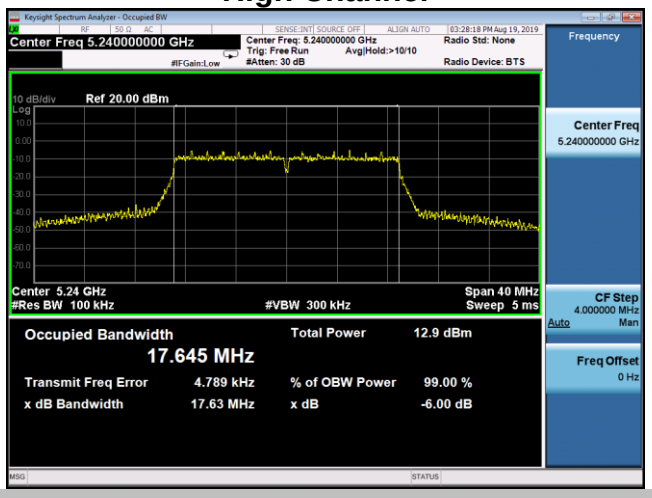
Low Channel



Middle Channel

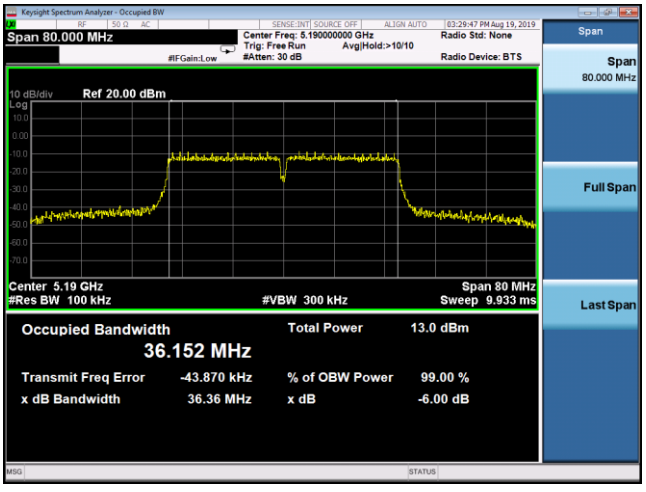


High Channel

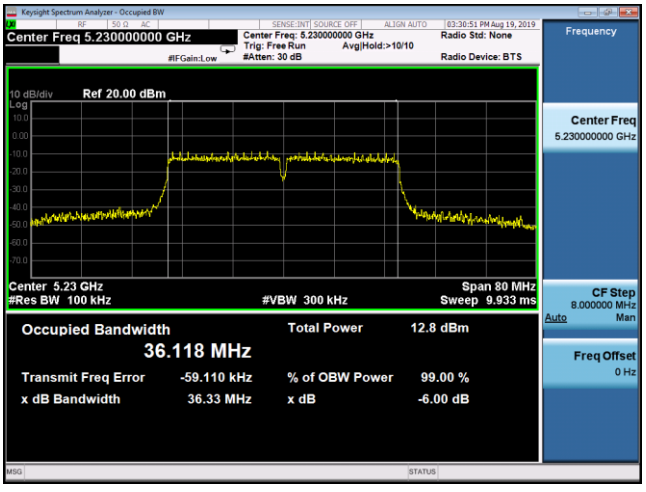


802.11n(HT40)

Low Channel

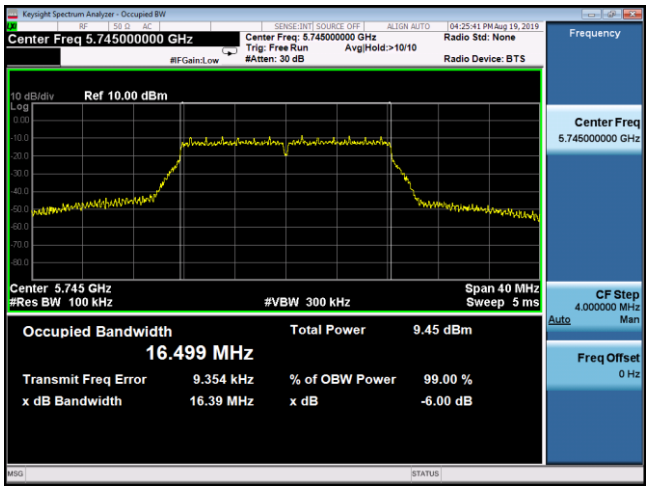


Middle Channel

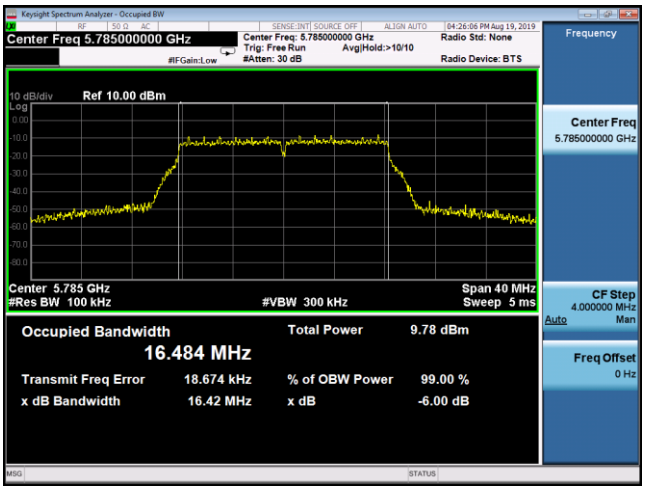


Band 5745-5825MHz
IEEE 802.11a

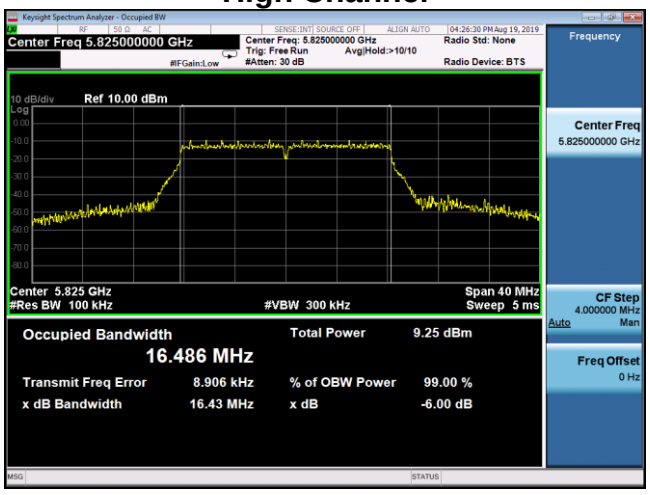
Low Channel



Middle Channel

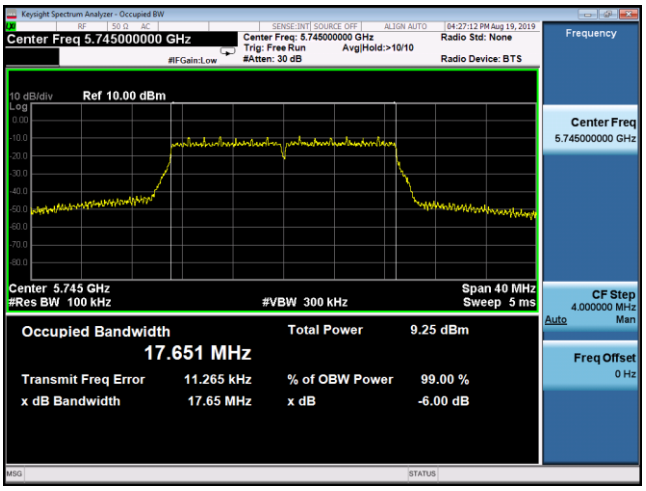


High Channel

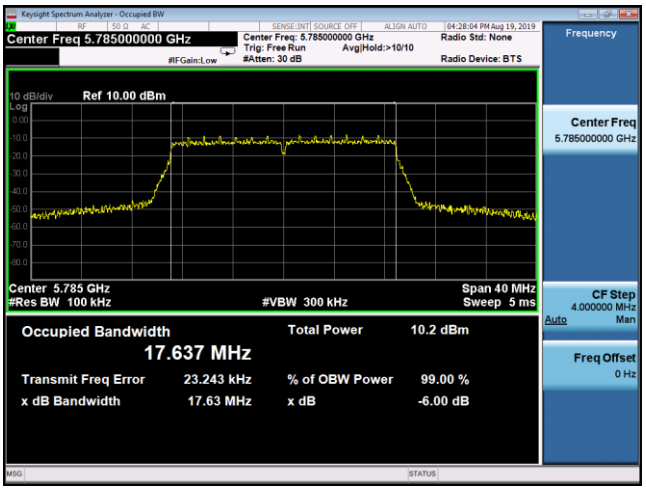


802.11n(HT20)

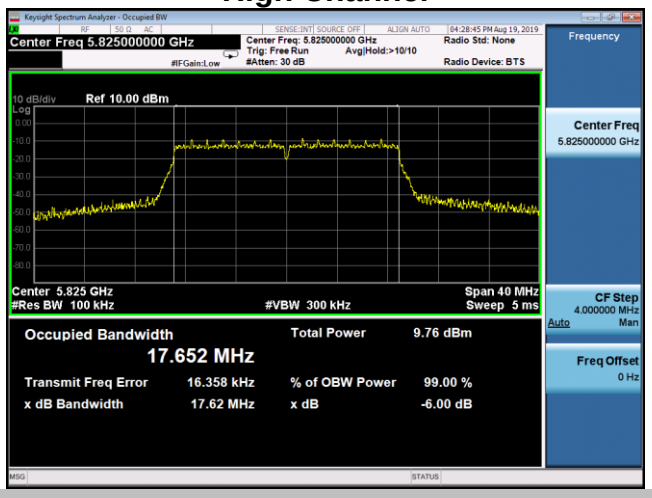
Low Channel



Middle Channel

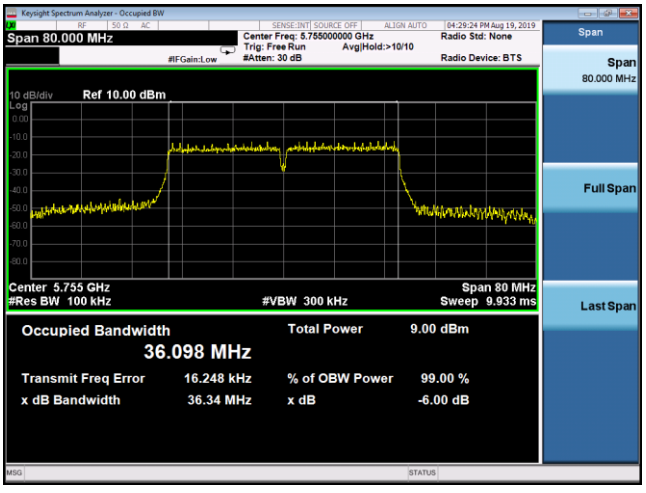


High Channel

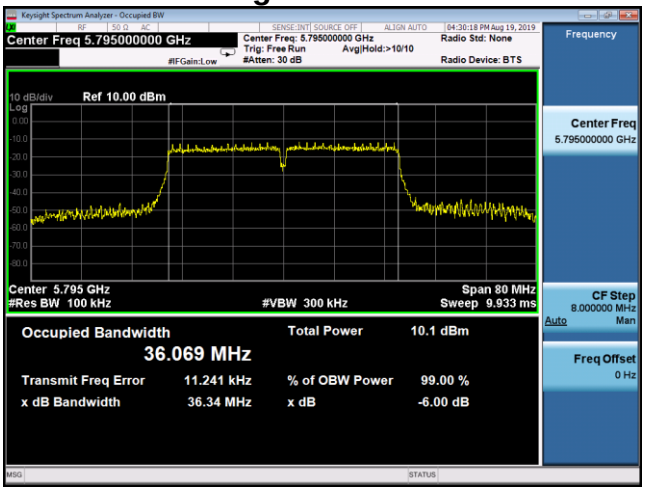


802.11n(HT40)

Low Channel



High Channel

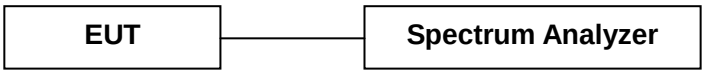


6. 26dB Bandwidth & 99% Occupied Bandwidth

6.1 Limits

No restriction limits.

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 Test Procedure

The antenna port of the EUT was connected to the input of a spectrum analyzer.
Analyzer was set as below according to FCC KDB789033(v01r03):

1. For 26dB bandwidth, Set the RBW = Approximately 1% of the emission bandwidth
2. Set the VBW ＞ RBW
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

1. For 99% occupied bandwidth, Set the RBW = 1% to 5% of the OBW
2. Set the VBW ≥ 3 x RBW
3. Detector = peak.
4. Span = 1.5 times to 5.0 times the OBW
5. Sweep time = auto couple.
6. Trace mode = max hold. Allow trace to fully stabilize.
7. Use the 99% power bandwidth function of the spectrum analyzer measure the occupied bandwidth.

6.4 Measurement Results

Pass

Please refer to following table and plots.

Temperature :	23 ℃	Humidity : 53 %	
Test By:	Lee	Test Date : August 19, 2019	
Test Result:	PASS		
Frequency MHz	Data Rate Mbps	26dB Bandwidth MHz	99% Occupied Bandwidth MHz
IEEE 802.11a Mode (CCK)			
Low Channel: 5180	6	20.19	16.936
Middle Channel: 5200	6	19.86	16.924
High Channel: 5240	6	20.00	16.952
IEEE 802.11n(HT20) Mode (OFDM)			
Low Channel: 5180	MCS0	20.39	17.896
Middle Channel: 5200	MCS0	20.17	17.896
High Channel: 5240	MCS0	20.20	17.868
IEEE 802.11n(HT40) Mode (OFDM)			
Low Channel: 5190	MCS0	40.82	36.755
High Channel: 5230	MCS0	40.81	36.691

Temperature :	23 ℃	Humidity : 53 %	
Test By:	Lee	Test Date : August 19, 2019	
Test Result:	PASS		
Frequency MHz	Data Rate Mbps	26dB Bandwidth MHz	99% Occupied Bandwidth MHz
IEEE 802.11a Mode (CCK)			
Low Channel: 5745	6	19.98	16.915
Middle Channel: 5785	6	19.86	16.870
High Channel: 5825	6	20.73	16.929
IEEE 802.11n(HT20) Mode (OFDM)			
Low Channel: 5745	MCS0	20.22	17.857
Middle Channel: 5785	MCS0	20.01	17.795
High Channel: 5825	MCS0	20.15	17.835
IEEE 802.11n(HT40) Mode (OFDM)			
Low Channel: 5755	MCS0	41.04	36.658
High Channel: 5795	MCS0	40.47	36.667