





FCC RADIO TEST REPORT FCC ID:S5V-D0EKV2

Product: Action Camera

Trade Mark: AKASO, Dragon Touch

Model No.: EK5000

Serial Model: BRAVE 4, BRAVE 5
Report No.: SER170912172001E

Issue Date: 25 Sep.2017

Prepared for

Proexpress Distributor LLC 7668 standish place STE B, Rockville Maryland United States 20855.

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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1 TEST RESULT CERTIFICATION

Applicant's name:	Proexpress Distributor LLC		
Address:	7668 standish place STE B, Rockville Maryland United States 20855.		
Manufacturer's Name:	Proexpress Distributor LLC		
Address	7668 standish place STE B, Rockville Maryland United States 20855.		
Product description			
Product name:	Action Camera		
Model and/or type reference:	EK5000		
Serial Model:	BRAVE 4, BRAVE 5		

Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT			
FCC 47 CFR Part 2, Subpart J				
FCC 47 CFR Part 15, Subpart C				
KDB 174176 D01 Line Conducted FAQ v01r01	Complied			
ANSI C63.10-2013				
FCC KDB 558074 D01 DTS Meas Guidance v04				

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	12 Sep. 2017 ~ 25 Sep. 2017	
Testing Engineer	:	Eileen Wu.	
		(Eileen Liu)	
Technical Manager	:	Jason chen	
_	<u> </u>	(Jason Chen)	
		San . Chen	
Authorized Signatory	:		
		(Sam Chen)	

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2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C							
Standard Section	Standard Section Test Item						
15.207	Conducted Emission	PASS					
15.247 (a)(2)	6dB Bandwidth	PASS					
15.247 (b)	Maximum Output Power	PASS					
15.247 (c)	Radiated Spurious Emission	PASS					
15.247 (d)	Power Spectral Density	PASS					
15.205	Band Edge Emission	PASS					
15.203	Antenna Requirement	PASS					

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5℃
8	Humidity	±2%

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Action Camera					
Trade Mark	AKASO, DragonTouch					
FCC ID S5V-D0EKV2						
Model No.	EK5000					
Serial Model	BRAVE 4, BRAVE 5					
Model Difference	All the model are the same circuit and RF module, except the name.					
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);					
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;					
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n(HT40);					
Antenna Type	Cu Antenna					
Antenna Gain	2 dBi					
Power supply (for battery)						
HW Version V2.0						
SW Version 170618KDCA						

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

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Revision History

Version	Description	Issued Date
Rev.01	Initial issue of report	Sep 25, 2017

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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
5	2432
6	2437
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11

AC power line Conducted Emission was tested under maximum output power.

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Te	Test Mode:						
	Test Items	Mode	Data Rate	Channel	Ant		
	AC Power Line Conducted Emissions	Normal Link	-	-	-		
		11b/CCK	1 Mbps	1/6/11	1		
	Maximum Conducted Output	11g/BPSK	6 Mbps	1/6/11	1		
	Power	11n HT20	MCS0	1/6/11	1		
		11n HT40	MCS0	3/6/9	1		
		11b/CCK	1 Mbps	1/6/11	1		
	Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	1		
		11n HT20	MCS0	1/6/11	1		
		11n HT40	MCS0	3/6/9	1		
			1	ı			
	0100 (0 1 : 111	11b/CCK	1 Mbps	1/6/11	1		
	6dB Spectrum Bandwidth	11g/BPSK	6 Mbps	1/6/11	1		
		11n HT20	MCS0	1/6/11	1		
		11n HT40	MCS0	3/6/9	1		
	Radiated Emissions Below 1GHz	Normal Link	-	-	-		
				T			
	Radiated Emissions Above	11b/CCK	1 Mbps	1/6/11	1		
	1GHz	11g/BPSK	6 Mbps	1/6/11	1		
		11n HT20	MCS0	1/6/11	1		
		11n HT40	MCS0	3/6/9	1		
		11b/CCK	1 Mbps	1/6/11	1		
	Band Edge Emissions	11g/BPSK	6 Mbps	1/6/11	1		
		11n HT20	MCS0	1/6/11	1		
			+	+			

MCS0

3/6/9

11n HT40

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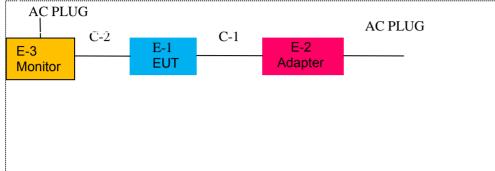




6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

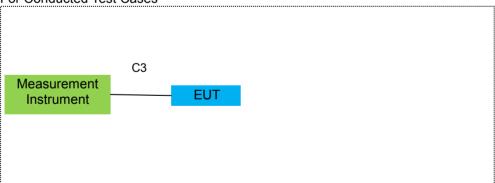
For AC Conducted Emission Mode



E-1 EUT

For Conducted Test Cases

For Radiated Test Cases



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.

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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

tooto.					
Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note
E-1.	Action Camera	AKASO, DragonTouch	EK5000	S5V-D0EKV2	EUT
E-2	Adapter	1	N/A	N/A	Peripherals
E-3	Monitor	SHARP	LCD-32MS46A	09426089241597	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.2m
C-2	HDMI Cable	NO	NO	1.0m
C-3	RF Cable	NO	NO	0.5m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

≺ <u>adiati</u>	on Test equipmei	nτ					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2017.06.06	2018.06.05	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	201711.10	2018.11.09	1 year
3	EMI Test Receiver	Agilent	N9038A	MY53227146	2017.06.06	2018.06.05	1 year
4	Test Receiver	R&S	ESPI	101318	2017.06.06	2018.06.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2017.04.09	2018.04.08	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2017.06.06	2018.06.05	1 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2017.04.09	2018.04.08	1 year
8	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2017.07.06	2018.07.05	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2017.08.09	2018.08.08	1 year
10	Amplifier	MITEQ	TTA1840-35- HG	177156	2017.06.06	2018.06.05	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	2017.06.06	2018.06.05	1 year
12	Power Meter	DARE	RPR3006W	15I00041SN O84	2017.08.07	2018.08.06	1 year
13	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
14	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
16	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2017.06.06	2018.06.05	1 year
2	LISN	R&S	ENV216	101313	2017.04.19	2018.04.18	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2017.06.06	2018.06.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2017.06.06	2018.06.05	1 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

1		Filter	TRILTHIC	2400MHz	29	2017.04.19	2018.04.18	1 year
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Note: Each piece of equipment is scheduled for calibration once a year.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit				
Frequency(MHZ)	Quasi-peak	Average			
0.15-0.5	66-56*	56-46*			
0.5-5.0	56	46			
5.0-30.0	60	50			

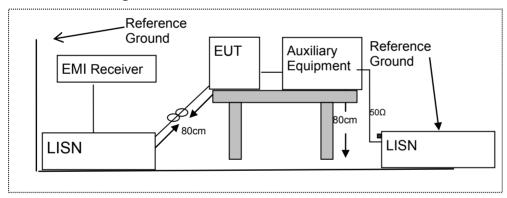
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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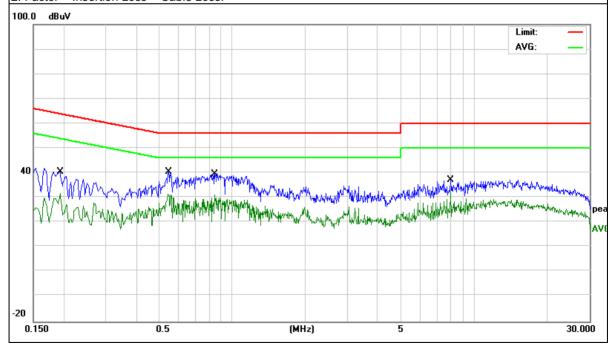
7.1.6 Test Results

EUT:	Action Camera	Model Name:	EK5000
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	20.43	20.09	40.52	63.86	-23.34	QP
0.1940	11.53	20.09	31.62	53.86	-22.24	AVG
0.5420	20.24	20.07	40.31	56.00	-15.69	QP
0.5420	11.38	20.07	31.45	46.00	-14.55	AVG
0.8460	19.64	20.21	39.85	56.00	-16.15	QP
0.8460	10.97	20.21	31.18	46.00	-14.82	AVG
8.0099	16.80	20.37	37.17	60.00	-22.83	QP
8.0099	11.58	20.37	31.95	50.00	-18.05	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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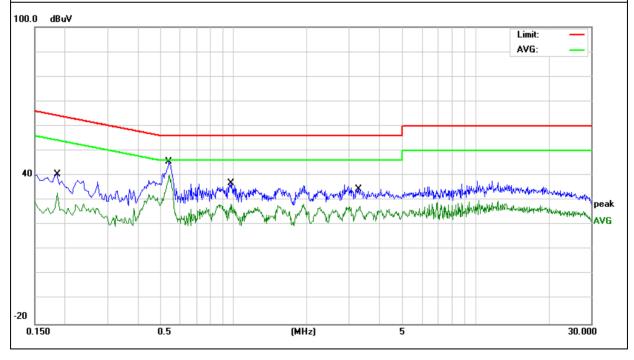




EUT:	Action Camera	Model Name:	EK5000
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage •	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1860	20.26	20.19	40.45	64.21	-23.76	QP
0.1860	12.62	20.19	32.81	54.21	-21.40	AVG
0.5420	25.29	20.17	45.46	56.00	-10.54	QP
0.5420	20.11	20.17	40.28	46.00	-5.72	AVG
0.9780	16.54	20.28	36.82	56.00	-19.18	QP
0.9780	8.27	20.28	28.55	46.00	-17.45	AVG
3.3140	15.99	20.31	36.30	56.00	-19.70	QP
3.3140	7.10	20.31	27.41	46.00	-18.59	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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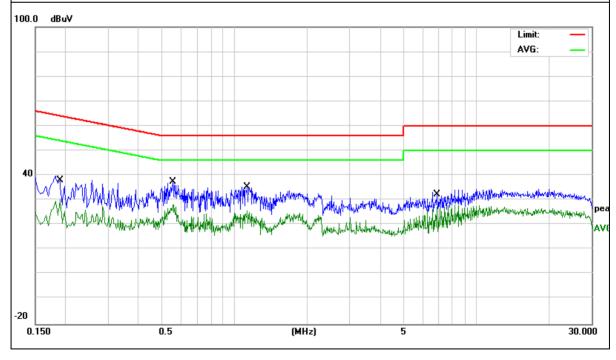




		-	
EUT:	Action Camera	Model Name:	EK5000
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LIDEL VIOLENDA .	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1900	19.64	20.09	39.73	64.03	-24.30	QP
0.1900	10.04	20.09	30.13	54.03	-23.90	AVG
0.5580	17.46	20.08	37.54	56.00	-18.46	QP
0.5580	8.20	20.08	28.28	46.00	-17.72	AVG
1.1340	15.21	20.27	35.48	56.00	-20.52	QP
1.1340	5.38	20.27	25.65	46.00	-20.35	AVG
6.8979	12.78	20.37	33.15	60.00	-26.85	QP
6.8979	6.78	20.37	27.15	50.00	-22.85	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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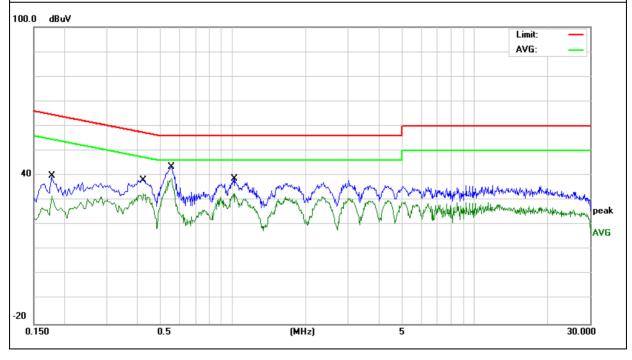




EUT:	Action Camera	Model Name:	EK5000
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Lact Voltage .	DC 5V from Adapter AC 240V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1780	19.54	20.18	39.72	64.57	-24.85	QP
0.1780	11.55	20.18	31.73	54.57	-22.84	AVG
0.4260	18.01	20.17	38.18	57.33	-19.15	QP
0.4260	12.47	20.17	32.64	47.33	-14.69	AVG
0.5580	23.20	20.18	43.38	56.00	-12.62	QP
0.5580	18.38	20.18	38.56	46.00	-7.44	AVG
1.0100	18.26	20.28	38.54	56.00	-17.46	QP
1.0100	12.47	20.28	32.75	46.00	-13.25	AVG

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205. Restricted bands

According to FCC Fait 15.205, Restricted bands							
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

	(-),		
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)			
	PEAK	AVERAGE		
Above 1000	74	54		

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

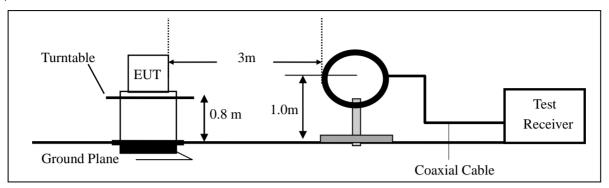
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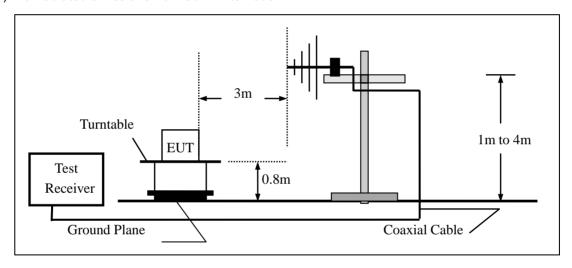


7.2.4 Test Configuration

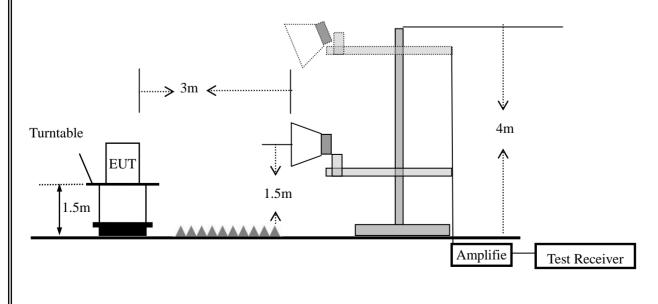
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 - 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.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations: For peak measurement:

Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f≥1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

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Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4/Mode5	Test By:	Eileen Liu

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK AV		PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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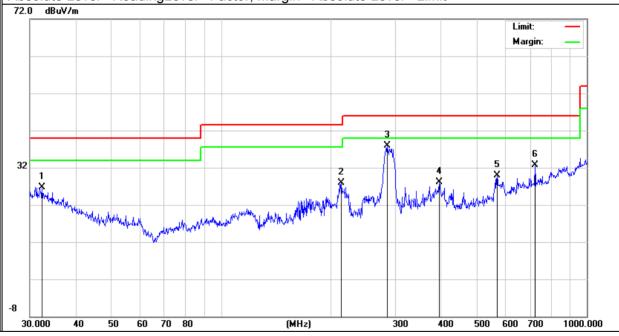
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Action Camera	Model Name:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Normal Link
Test Voltage:	DC 3.7V From Battery		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.4059	6.56	20.15	26.71	40.00	-13.29	QP
V	213.0151	14.52	13.30	27.82	43.50	-15.68	QP
V	284.9767	23.81	14.08	37.89	46.00	-8.11	QP
V	394.8544	12.98	15.09	28.07	46.00	-17.93	QP
V	568.6127	11.28	18.67	29.95	46.00	-16.05	QP
V	721.7259	11.06	21.63	32.69	46.00	-13.31	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



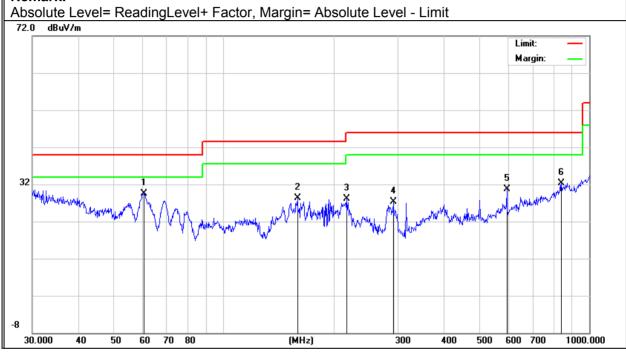
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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	60.7043	18.86	10.64	29.50	40.00	-10.50	QP	
Н	159.2250	16.28	12.10	28.38	43.50	-15.12	QP	
Н	217.5441	15.32	12.74	28.06	46.00	-17.94	QP	
Н	291.0360	13.12	14.15	27.27	46.00	-18.73	QP	
Н	595.1327	11.91	18.84	30.75	46.00	-15.25	QP	
Н	839.1816	6.72	25.58	32.30	46.00	-13.70	QP	





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■ Spurious Emission Above 1GHz (1GHz to 27GHz)

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b	Test By:	Eileen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chann	el (2412 M	Hz)(802.11b)Above 1G			
4824.269	65.59	5.21	35.59	44.30	62.09	74.00	-11.91	Pk	Vertical
4824.269	46.53	5.21	35.59	44.30	43.03	54.00	-10.97	AV	Vertical
7236.112	63.37	6.48	36.27	44.60	61.52	74.00	-12.48	Pk	Vertical
7236.112	44.48	6.48	36.27	44.60	42.63	54.00	-11.37	AV	Vertical
4824.274	65.52	5.21	35.55	44.30	61.98	74.00	-12.02	Pk	Horizontal
4824.274	42.21	5.21	35.55	44.30	38.67	54.00	-15.33	AV	Horizontal
7236.365	65.59	6.48	36.27	44.52	63.82	74.00	-10.18	Pk	Horizontal
7236.365	48.87	6.48	36.27	44.52	47.10	54.00	-6.9	AV	Horizontal
			Low Chann	el (2437 M	Hz)(802.11b)Above 1G	i		
4874.668	62.54	5.21	35.66	44.20	59.21	74.00	-14.79	Pk	Vertical
4874.668	45.52	5.21	35.66	44.20	42.19	54.00	-11.81	AV	Vertical
7311.362	61.23	7.10	36.50	44.43	60.40	74.00	-13.60	Pk	Vertical
7311.362	42.69	7.10	36.50	44.43	41.86	54.00	-12.14	AV	Vertical
4874.072	62.35	5.21	35.66	44.20	59.02	74.00	-14.98	Pk	Horizontal
4874.072	47.84	5.21	35.66	44.20	44.51	54.00	-9.49	AV	Horizontal
7311.236	61.41	7.10	36.50	44.43	60.58	74.00	-13.42	Pk	Horizontal
7311.236	43.39	7.10	36.50	44.43	42.56	54.00	-11.44	AV	Horizontal
			Low Chann	nel (2462 M	Hz)(802.11b)Above 1G			
4924.268	65.59	5.21	35.52	44.21	62.11	74.00	-11.89	Pk	Vertical
4924.268	47.82	5.21	35.52	44.21	44.34	54.00	-9.66	AV	Vertical
7386.167	66.65	7.10	36.53	44.60	65.68	74.00	-8.32	Pk	Vertical
7386.167	43.32	7.10	36.53	44.60	42.35	54.00	-11.65	AV	Vertical
4924.383	68.59	5.21	35.52	44.21	65.11	74.00	-8.89	Pk	Horizontal
4924.383	48.51	5.21	35.52	44.21	45.03	54.00	-8.97	AV	Horizontal
7386.401	62.21	7.10	36.53	44.60	61.24	74.00	-12.76	Pk	Horizontal
7386.401	46.69	7.10	36.53	44.60	45.72	54.00	-8.28	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

- (2) Emission Level= Antenna Factor + Cable Loss + Read Level Preamp Factor
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4)"802.11n20" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

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■ Spurious Emission in Restricted Band 2310MHz -18000MHz All the modulation modes have been tested, and the worst result was report as below:

Mary Reading Loss Factor Level Limits Margin Detector Comment Comm				e been tes	·		ESUIL Was	report as i	Jeiow.	1
MHz (dBjvV) (dB)	Frequenc		Cable	Antenna	Preamp	Emission	Limits	Margin	Detector	Commont
2310.00							(dRu\//m)	(dB)		Comment
2310.00	(IVITIZ)	(ασμν)	(ub)	uD/III	. /		(αυμν/ΙΙΙ)	(ub)	rype	·
2310.00 43.36 2.97 27.80 43.80 30.33 54 -23.67 AV Horizontal 2310.00 59.98 2.97 27.80 43.80 36.95 74 -27.05 Pk Vertical 2310.00 43.64 2.97 27.80 43.80 30.61 54 -23.39 AV Vertical 2390.00 62.25 3.14 27.21 43.80 30.61 54 -23.39 AV Vertical 2390.00 64.47 3.14 27.21 43.80 31.02 54 -22.52 Pk Vertical 2390.00 64.47 3.14 27.21 43.80 31.02 54 -22.633 Pk Horizontal 2390.00 63.52 3.14 27.21 43.80 29.87 54 -22.633 Pk Horizontal 2390.00 43.32 3.14 27.21 43.80 29.87 54 -22.633 Pk Horizontal 2483.50 62.29 3.58 27.70 44.00 49.57 74 -24.43 Pk Vertical 2483.50 60.52 3.58 27.70 44.00 28.40 54 -25.6 AV Vertical 2483.50 60.52 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2483.50 60.52 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2483.50 60.52 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2483.50 63.37 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 63.37 2.97 27.80 43.80 30.29 54 -23.71 AV Vertical 2310.00 63.37 2.97 27.80 43.80 30.29 54 -24.76 AV Vertical 2310.00 63.37 2.97 27.80 43.80 29.24 54 -24.76 AV Vertical 2390.00 41.11 3.14 27.21 43.80 29.90 54 -24.76 AV Vertical 2390.00 43.32 2.97 27.80 43.80 50.34 74 -23.66 Pk Horizontal 2390.00 63.89 3.14 27.21 43.80 29.90 54 -24.76 AV Vertical 2390.00 63.89 3.14 27.21 43.80 29.90 54 -24.76 AV Vertical 2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.76 AV Vertical 2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.76 AV Vertical 2483.50 60.59 3.58 27.70 44.00 28.55 54 -24.45 Pk Vertical 2483.50 60.59 3.58 27.70 44.00 29.50 54 -24.75 AV Horizontal 2483.50 60.59 3.58 27.70 44.00 29.50 54 -24.75 AV Horizontal 2483.50 60.59 3.	2310.00	60.45	2 97	27.80			74	-26 58	Pk	Horizontal
2310.00 59.98 2.97 27.80 43.80 49.95 74 -27.05 Pk Vertical 2310.00 63.64 2.97 27.80 43.80 30.81 54 -23.39 AV Vertical 2390.00 62.25 3.14 27.21 43.80 30.81 54 -25.2 Pk Vertical 2390.00 64.47 3.14 27.21 43.80 31.02 54 -22.98 AV Vertical 2390.00 60.52 3.14 27.21 43.80 31.02 54 -22.98 AV Vertical 2390.00 60.52 3.14 27.21 43.80 48.97 74 -26.93 Pk Vertical 2483.50 62.29 3.58 27.70 44.00 49.57 74 -24.43 Pk Vertical 2483.50 62.29 3.58 27.70 44.00 28.40 54 -25.5 AV Vertical 2483.50 60.52 3.58 27.70 44.00 28.40 54 -25.5 AV Vertical 2483.50 60.52 3.58 27.70 44.00 27.80 74 -26.2 Pk Horizontal 2483.50 60.52 3.58 27.70 44.00 27.80 74 -26.2 Pk Horizontal 2483.50 43.32 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 61.45 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 63.37 2.97 27.80 43.80 50.34 74 -23.66 Pk Vertical 2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 63.69 3.14 27.21 43.80 29.24 54 -24.76 AV Vertical 2390.00 63.69 3.14 27.21 43.80 29.90 54 -24.17 AV Horizontal 2483.50 60.52 3.58 27.70 44.00 28.56 54 -24.46 AV Vertical 2390.00 63.69 3.14 27.21 43.80 29.90 54 -24.17 AV Horizontal 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.17 AV Horizontal 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.45 AV Vertical 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.16 AV Vertical 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.45 AV Vertical 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.45 AV Horizontal 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.15 AV Horizontal 2483.50 60.58 3.58 27.70 44.00 29.50 54 -2										
2310.00										
2390.00 62.25 3.14 27.21 43.80 48.80 74 -25.2 Pk Vertical 2390.00 44.47 3.14 27.21 43.80 31.02 54 -22.98 AV Vertical 2390.00 60.52 3.14 27.21 43.80 47.07 74 -26.83 Pk Horizontal 2390.00 43.32 3.14 27.21 43.80 29.87 54 -24.13 AV Horizontal 2483.50 62.29 3.58 27.70 44.00 49.57 74 -24.43 Pk Vertical 2483.50 60.52 3.58 27.70 44.00 28.40 54 -24.43 Pk Vertical 2483.50 60.52 3.58 27.70 44.00 25.60 54 -24.44 AV Horizontal 2483.50 60.52 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2310.00 61.45 2.97 27.80 43.80 48.42 74 -25.58 Pk Horizontal 2310.00 63.37 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 43.32 2.97 27.80 43.80 50.34 74 -23.66 Pk Vertical 2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 63.69 3.14 27.21 43.80 50.34 74 -24.87 Pk Vertical 2390.00 43.35 3.14 27.21 43.80 50.24 74 -23.76 Pk Vertical 2390.00 43.35 3.14 27.21 43.80 50.24 74 -23.76 Pk Vertical 2390.00 43.35 3.14 27.21 43.80 50.24 74 -24.45 Pk Vertical 2483.50 42.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.23 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.24 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.24 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.25 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.25 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.24 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 42.45 3.58 27.70 44.00 49.55 74 -24.55 AV Horizontal 2483.50 42.24 3.58 27.70 44.00 49.55 74 -2										ł — —
2390.00 44.47 3.14 27.21 43.80 31.02 54 -22.98 AV Vertical 2390.00 60.52 3.14 27.21 43.80 47.07 74 -26.93 Pk Horizontal 2390.00 43.32 3.14 27.21 43.80 29.87 54 -24.43 AV Horizontal 2483.50 62.29 3.58 27.70 44.00 49.57 74 -24.43 Pk Vertical 2483.50 60.52 3.58 27.70 44.00 28.56 54 -25.6 AV Horizontal 2483.50 42.28 3.58 27.70 44.00 27.80 74.80 74 -26.2 Pk Horizontal 2483.50 43.22 3.58 27.70 44.00 42.80 74 -26.5 AV Horizontal 2483.50 43.22 297 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00<										
2390.00										
2390.00										
2483.50 62.29 3.58 27.70 44.00 49.57 74 -24.43 Pk Vertical 2483.50 41.12 3.58 27.70 44.00 28.40 54 -25.6 AV Vertical 2483.50 60.52 3.58 27.70 44.00 29.56 54 -26.2 Pk Horizontal 2483.50 42.28 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2310.00 61.45 2.97 27.80 43.80 48.42 74 -25.58 Pk Horizontal 2310.00 43.32 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 63.37 2.97 27.80 43.80 50.34 74 -23.66 Pk Vertical 2390.00 63.37 2.97 27.80 43.80 50.34 74 -24.67 AV Vertical 2390.00 62.58 3.14 27.21 43.80 29.24 54 -24.76 AV Vertical 2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.11 AV Horizontal 2483.50 62.57 3.58 27.70 44.00 29.55 54 -26.34 AV Vertical 2483.50 43.55 3.14 27.21 43.80 29.90 54 -24.11 AV Horizontal 2483.50 41.17 3.58 27.70 44.00 28.45 54 -25.66 Pk Vertical 2483.50 41.17 3.58 27.70 44.00 28.45 54 -26.34 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.15 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 47.86 74 -26.64 Pk Horizontal 2310.00 59.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 42.23 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 42.23 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2390.00 42.27 3.14 27.21 43.80 28.83 54 -22.17 AV Vertical 2390.00 42.28 3.14 27.21 43.80 28.85 54 -22.47 AV Horizontal 2390.00 42.28 3.14 27.21 43.80 46.95										
2483.50 41.12 3.58 27.70 44.00 28.40 54 -25.6 AV Vertical 2483.50 60.52 3.58 27.70 44.00 29.56 54 -26.2 Pk Horizontal 2483.50 42.28 3.58 27.70 44.00 29.56 54 -24.44 AV Horizontal 2310.00 61.45 2.97 27.80 43.80 30.29 54 -23.71 AV Horizontal 2310.00 43.32 2.97 27.80 43.80 50.34 74 -25.58 Pk Vertical 2310.00 43.27 2.97 27.80 43.80 50.34 74 -23.66 Pk Vertical 2390.00 42.11 3.14 27.21 43.80 29.24 54 -24.76 AV Vertical 2390.00 62.58 3.14 27.21 43.80 27.66 54 -26.37 AV Vertical 2390.00 63.40										
2483.50										
2483.50										
802.11g									AV	
2310.00	-				802					
2310.00	2310.00	61.45	2.97	27.80	43.80	48.42	74	-25.58	Pk	Horizontal
2310.00 42.27 2.97 27.80 43.80 29.24 54 -24.76 AV Vertical 2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 41.11 3.14 27.21 43.80 27.66 54 -26.34 AV Vertical 2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.1 AV Horizontal 4383.50 62.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 4483.50 42.22 3.58 27.70 44.00 47.86 74 -24.45 Pk Vertical 4483.50 42.22 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical 4483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 442.23 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 442.23 2.97 27.80 43.80 29.22 54	2310.00	43.32	2.97	27.80	43.80	30.29	54	-23.71	AV	Horizontal
2390.00 62.58 3.14 27.21 43.80 49.13 74 -24.87 Pk Vertical 2390.00 41.11 3.14 27.21 43.80 27.66 54 -26.34 AV Vertical 2390.00 63.69 3.14 27.21 43.80 50.24 74 -23.76 Pk Horizontal 2483.50 62.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 60.58 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical 2483.50 40.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2310.00 59.98 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 42.23 <td>2310.00</td> <td>63.37</td> <td>2.97</td> <td>27.80</td> <td>43.80</td> <td>50.34</td> <td>74</td> <td>-23.66</td> <td>Pk</td> <td>Vertical</td>	2310.00	63.37	2.97	27.80	43.80	50.34	74	-23.66	Pk	Vertical
2390.00 41.11 3.14 27.21 43.80 27.66 54 -26.34 AV Vertical 2390.00 63.69 3.14 27.21 43.80 50.24 74 -23.76 Pk Horizontal 2483.50 62.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 60.58 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical 2483.50 60.58 3.58 27.70 44.00 28.45 54 -26.14 Pk Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2310.00 59.98 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 45.99<	2310.00	42.27	2.97	27.80	43.80	29.24	54	-24.76	AV	Vertical
2390.00 63.69 3.14 27.21 43.80 50.24 74 -23.76 Pk Horizontal 2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.1 AV Horizontal 2483.50 62.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 61.17 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical 2483.50 60.58 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2310.00 59.98 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 59.97 2.97 27.80 43.80 29.22 54 -24.78 AV Horizontal 2310.00 42.23	2390.00	62.58	3.14	27.21	43.80	49.13	74	-24.87	Pk	Vertical
2390.00 43.35 3.14 27.21 43.80 29.90 54 -24.1 AV Horizontal 2483.50 62.27 3.58 27.70 44.00 49.55 74 -24.45 Pk Vertical 2483.50 41.17 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical Pk Horizontal 2483.50 60.58 3.58 27.70 44.00 47.86 74 -26.14 Pk Horizontal Pk 483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal Horizontal Pk 438.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal Horizontal Pk 438.00 46.95 74 -27.05 Pk Horizontal Horizontal Pk 43.80 46.95 74 -27.05 Pk Horizontal Pk 43.80 46.95 74 -27.06 Pk Vertical Vertical Pk 2310.00 42.23 2.97 27.80 43.80 29.20 54 -24.8 AV	2390.00	41.11	3.14	27.21	43.80	27.66	54	-26.34	AV	Vertical
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2483.50 41.17 3.58 27.70 44.00 28.45 54 -25.55 AV Vertical 2483.50 60.58 3.58 27.70 44.00 47.86 74 -26.14 Pk Horizontal 2483.50 42.22 3.58 27.70 44.00 29.50 54 -24.5 AV Horizontal 2310.00 59.98 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 42.25 2.97 27.80 43.80 29.22 54 -24.78 AV Horizontal 2310.00 59.97 2.97 27.80 43.80 29.22 54 -24.78 AV Horizontal 2310.00 42.23 2.97 27.80 43.80 29.20 54 -24.8 AV Vertical 2390.00 60.42 3.14 27.21 43.80 28.82 54 -25.18 AV Vertical 2390.00 42.28<	2390.00		3.14	27.21		29.90	54	-24.1	AV	Horizontal
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2483.50	2483.50	41.17	3.58	27.70	44.00	28.45	54	-25.55	AV	Vertical
S02.11n20 S9.98 2.97 27.80 43.80 46.95 74 -27.05 Pk Horizontal 2310.00 42.25 2.97 27.80 43.80 29.22 54 -24.78 AV Horizontal 2310.00 59.97 2.97 27.80 43.80 29.20 54 -24.8 AV Vertical 2390.00 60.42 3.14 27.21 43.80 28.82 54 -25.18 AV Vertical 2390.00 42.27 3.14 27.21 43.80 28.82 54 -25.18 AV Vertical 2390.00 60.59 3.14 27.21 43.80 43.80 47.14 74 -26.86 Pk Horizontal 2483.50 60.57 3.58 27.70 44.00 47.85 74 -27.04 Pk Vertical 2483.50 43.11 3.58 27.70 44.00 46.96 74 -27.04 Pk Horizontal 2483.50 42.24 3.58 27.70 44.00 29.52 54 -24.48 AV Horizontal 2483.50 42.24 3.58 27.70 44.00 29.52 54 -24.48 AV Horizontal 2483.50 42.24 3.58 27.70 44.00 29.52 54 -24.48 AV Horizontal 2483.50 42.24 3.58 27.70 44.00 29.52 54 -24.48 AV Horizontal 2310.00 60.47 2.97 27.80 43.80 47.44 74 -26.56 Pk Horizontal 2310.00 43.31 2.97 27.80 43.80 47.44 74 -26.56 Pk Horizontal 2310.00 42.28 2.97 27.80 43.80 49.56 74 -24.44 Pk Vertical 2310.00 42.28 2.97 27.80 43.80 49.56 74 -24.44 Pk Vertical 2310.00 42.28 2.97 27.80 43.80 49.56 74 -24.44 Pk Vertical 2310.00 42.28 2.97 27.80 43.80 49.56 74 -24.44 Pk Vertical 2310.00 42.28 2.97 27.80 43.80 29.25 54 -24.75 AV Horizontal 2310.00 59.98 3.14 27.21 43.80 27.68 54 -26.32 AV Vertical 2390.00 59.98 3.14 27.21 43.80 27.68 54 -26.32 AV Vertical 2390.00 59.98 3.14 27.21 43.80 27.68 54 -26.32 AV Vertical 2390.00 59.98 3.14 27.21 43.80 27.68 54 -26.32 AV Vertical 2390.00 59.98 3.14 27.21 43.80 27.68 54 -26.37 Pk Horizontal 2483.50 59.85 3.58 27.70 44.00 29.54 54 -24.464 AV Vertical 2483.50 59.85 3.58 27.70 44		60.58	3.58	27.70	44.00	47.86		-26.14		Horizontal
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2483.50 42.23 3.58 27.70 44.00 29.51 54 -24.49 AV Horizontal		60.24	3.58		44.00	47.52	74	-26.48	Pk	
	2483.50	42.23	3.58	27.70	44.00	29.51	54	-24.49	AV	Horizontal

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Spurious Emission in Restricted Bands 3260MMHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

Frequenc y	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	60.34	4.04	29.57	44.70	49.25	74	-24.75	Pk	Vertical
3260	50.41	4.04	29.57	44.70	39.32	54	-14.68	AV	Vertical
3260	63.34	4.04	29.57	44.70	52.25	74	-21.75	Pk	Horizontal
3260	47.97	4.04	29.57	44.70	36.88	54	-17.12	AV	Horizontal
3332	64.59	4.26	29.87	44.40	54.32	74	-19.68	Pk	Vertical
3332	48.81	4.26	29.87	44.40	38.54	54	-15.46	AV	Vertical
3332	66.65	4.26	29.87	44.40	56.38	74	-17.62	Pk	Horizontal
3332	51.01	4.26	29.87	44.40	40.74	54	-13.26	AV	Horizontal
17797	48.97	10.99	43.95	43.50	60.41	74	-13.59	Pk	Vertical
17797	32.26	10.99	43.95	43.50	43.70	54	-10.30	AV	Vertical
17788	50.57	11.81	43.69	44.60	61.47	74	-12.53	Pk	Horizontal
17788	31.12	11.81	43.69	44.60	42.02	54	-11.98	AV	Horizontal

[&]quot;802.11 n20" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

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7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 DTS 01 Meas. Guidance v04

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows KDB 558074 DTS 01 Meas. Guidance v04

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW = 100KHz

 $VBW \ge 3*RBW$

Sweep = auto

Detector function = peak

Trace = max hold

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7.3.6 Test Results

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Eileen Liu

Mode	Channel	Frequency	6dB bandwidth	Limit	Result	
Wiode	Chamei	(MHz)	(MHz)	(kHz)	Kesuit	
	Low	2412	15.077	500	Pass	
802.11b	Middle	2437	15.051	500	Pass	
	High	2462	15.038	500	Pass	
	Low	2412	16.501	500	Pass	
802.11g	Middle	2437	16.490	500	Pass	
	High	2462	16.498	500	Pass	
	Low	2412	17.775	500	Pass	
802.11n20	Middle	2437	17.783	500	Pass	
	High	2462	17.769	500	Pass	
	Low	2422	35.710	500	Pass	
802.11n40	Middle	2437	35.729	500	Pass	
	High	2452	35.723	500	Pass	

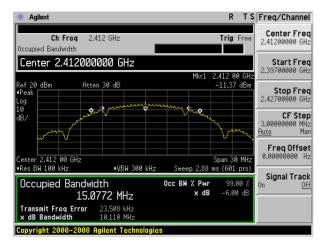
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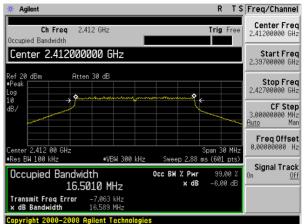


Test plot

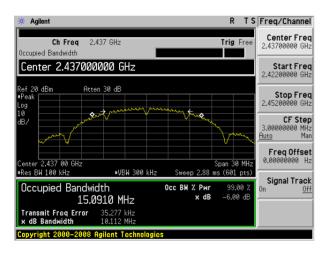
(802.11b) 6dB Bandwidth plot on channel 1



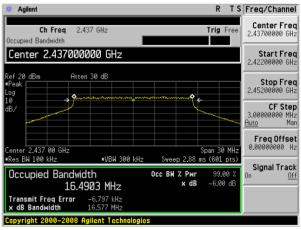
(802.11g) 6dB Bandwidth plot on channel 1



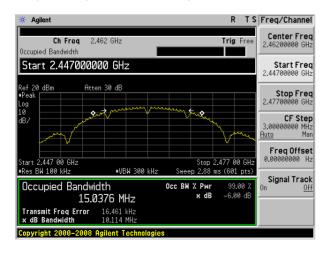
(802.11b) 6dB Bandwidth plot on channel 6



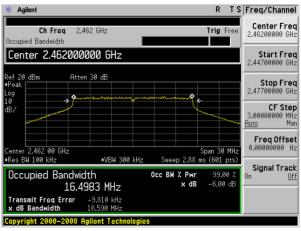
(802.11g) 6dB Bandwidth plot on channel 6



(802.11b) 6dB Bandwidth plot on channel 11



(802.11g) 6dB Bandwidth plot on channel 11



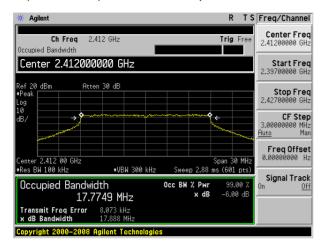
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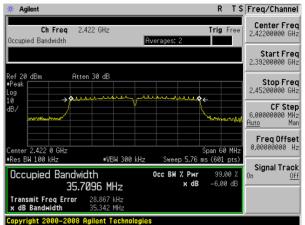


Test plot

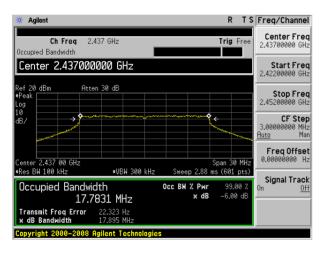
(802.11 N20) 6dB Bandwidth plot on channel 1



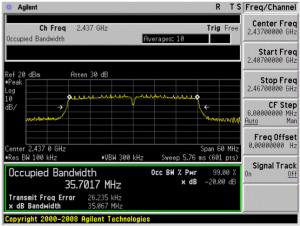
(802.11 N40) 6dB Bandwidth plot on channel 3



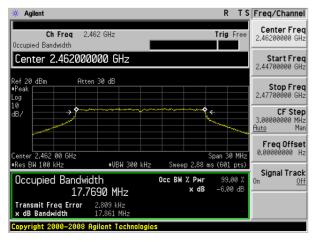
(802.11 N20) 6dB Bandwidth plot on channel 6



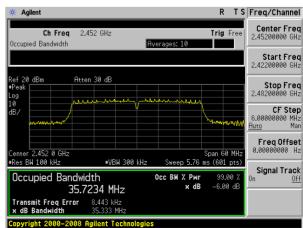
(802.1140) 6dB Bandwidth plot on channel 6



(802.11N20) 6dB Bandwidth plot on channel 11



(802.1140) 6dB Bandwidth plot on channel 9



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7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074)6)b), issued 06/09/2015

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074(issued 06/09/2015)

The largest availble value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if T \leq 6.25 microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 8MHz(the largest available value)

VBW = 8MHz (≥ RBW)

Number of points in Sweep >100

Detector function = peak

Trace = Clear write

Measure T_{total} and T_{on}

Calculate Duty Cycle = Ton / Ttotal

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7.4.6 Test Results

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Eileen Liu

Mode	Data rate	Channel	T _{on}	T _{total}	Duty Cycle	Duty Cycle Factor (dB)	VBW Setting
802.11b	1Mbps	6	-	-	100%	0	10Hz
802.11g	6Mbps	6	-	-	100%	0	1KHz
802.11n HT20	MCS0	6	-	-	100%	0	1KHz
802.11n HT40	MCS0	6	-	-	100%	0	3KHz

Note: All the modulation modes were tested, the data of the worst mode are described in the following table.

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7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 DTS 01 Meas. Guidance v04

7.5.2 Conformance Limit

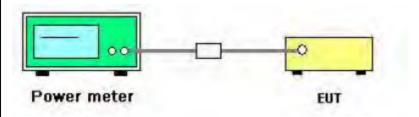
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	Peak

7.5.4 Test Setup



7.5.5 Test Procedure

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the *DTS* bandwidth and shall utilize a fast-responding diode detector.

7.5.6 EUT opration during Test

The EUT was programmed to be in continuously transmitting mode.

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7.5.7 Test Results

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Eileen Liu

Test Channel	Frequency (MHz)	Power Setting	Duty Cycle Factor (dB)	Peak Output Power (dBm)	Maximum Output Power(dBm)	LIMIT (dBm)	Verdict
				802.11b			
1	2412	Default	0	9.3	9.3	30	PASS
6	2437	Default	0	9.1	9.1	30	PASS
11	2462	Default	0	9.4	9.4	30	PASS
				802.11g			
1	2412	Default	0	9.1	9.1	30	PASS
6	2437	Default	0	9.0	9.0	30	PASS
11	2462	Default	0	8.9	8.9	30	PASS
				802.11n HT20			
1	2412	Default	0	9.2	9.2	30	PASS
6	2437	Default	0	9.1	9.1	30	PASS
11	2462	Default	0	8.4	8.4	30	PASS
	802.11n HT40						
3	2422	Default	0	9.0	9.0	30	PASS
6	2437	Default	0	9.3	9.3	30	PASS
9	2452	Default	0	8.8	8.8	30	PASS

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7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 DTS 01 Meas. Guidance v04

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW ≥ 3 *RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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7.6.6 Test Results

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Eileen Liu

Test Channel	Frequency (MHz)	Duty Cycle Factor(dB)	Peak Power Density (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
	802.11b				
1	2412	0	-9.516	8	PASS
6	2437	0	-9.648	8	PASS
11	2462	0	-9.419	8	PASS
	802.11g				
1	2412	0	-11.876	8	PASS
6	2437	0	-13.173	8	PASS
11	2462	0	-13.335	8	PASS
	802.11n HT20				
1	2412	0	-12.201	8	PASS
6	2437	0	-12.139	8	PASS
11	2462	0	-13.672	8	PASS
	802.11n HT40				
3	2422	0	-13.299	8	PASS
6	2437	0	-14.894	8	PASS
9	2452	0	-13.430	8	PASS

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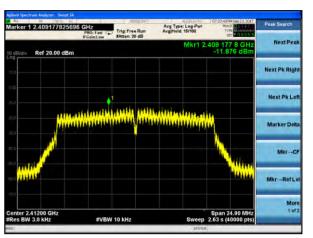


Test plot

(802.11b) PSD plot on channel 1



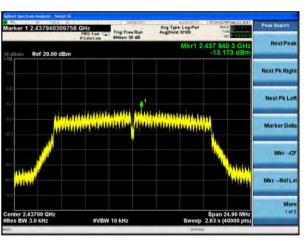
(802.11g) PSD plot on channel 1



(802.11b) PSD plot on channel 6



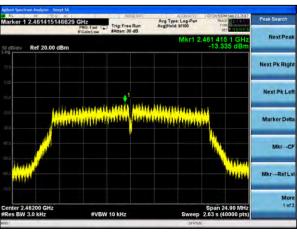
(802.11g) PSD plot on channel 6



(802.11b) PSD plot on channel 11



(802.11g) PSD plot on channel 11



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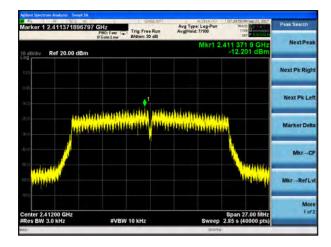


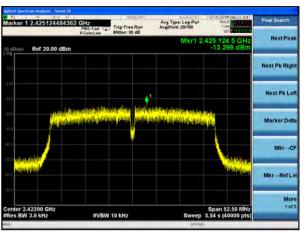


Test plot

(802.11n20) PSD plot on channel 1

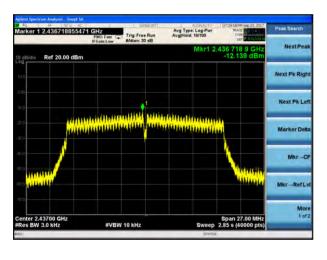
(802.11n40) PSD plot on channel 3

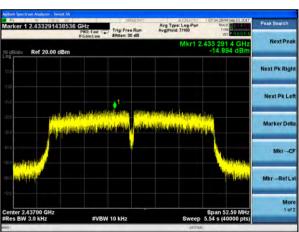




(802.11n20) PSD plot on channel 6

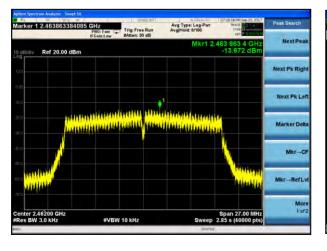
(802.11n40) PSD plot on channel 6

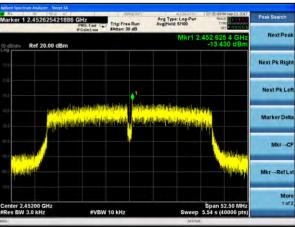




(802.11n20) PSD plot on channel 11

(802.11n40) PSD plot on channel 9





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7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 DTS 01 Meas. Guidance v04

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

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7.7.6 Test Results

EUT:	Action Camera	Model No.:	EK5000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Eileen Liu

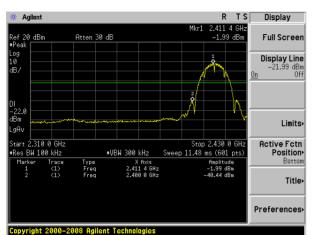
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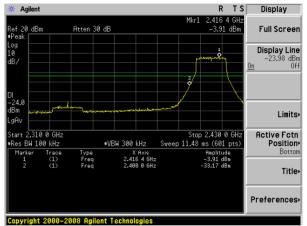


Test plot For

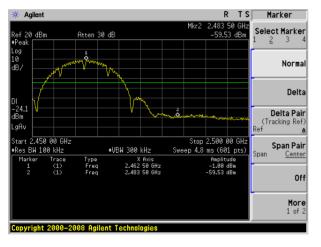
802.11b: Band Edge-Low Channel



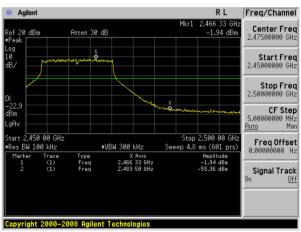
802.11g: Band Edge-Low Channel



802.11b: Band Edge-High Channel



802.11g: Band Edge-High Channel



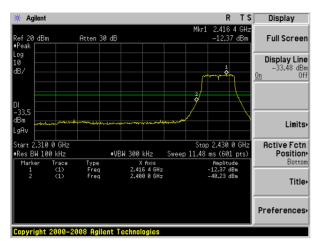
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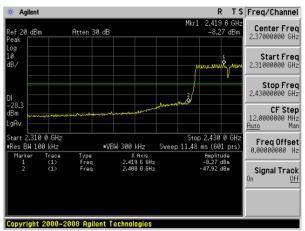


Test plot For

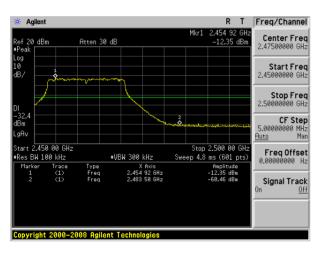
802.11n20: Band Edge-Low Channel



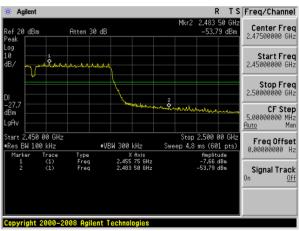
802.11n40: Band Edge-Low Channel



802.11n20: Band Edge-High Channel



802.11n40: Band Edge-High Channel



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7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 9KHz to 26.5GHz.

7.8.5 Test Results

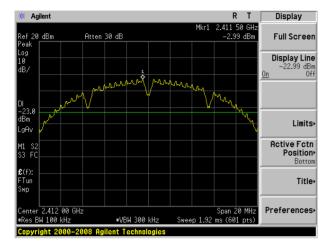
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

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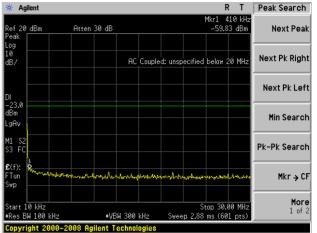




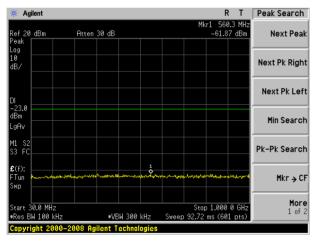
802.11b on channel 01



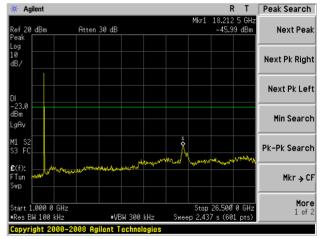
802.11b on channel 01



802.11b on channel 01



802.11b on channel 01

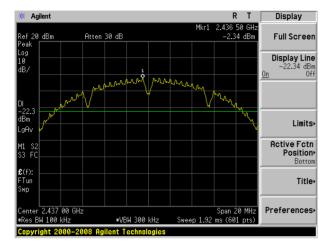


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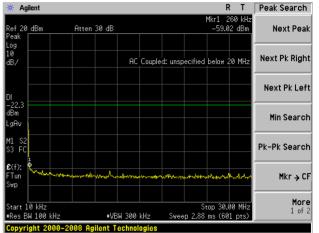




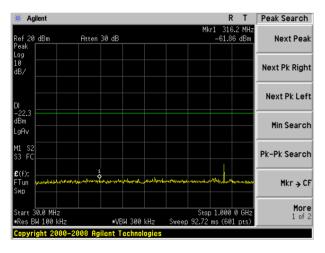
802.11b on channel 06



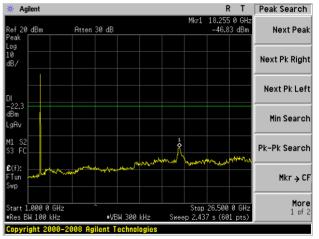
802.11b on channel 06



802.11b on channel 06



802.11b on channel 06

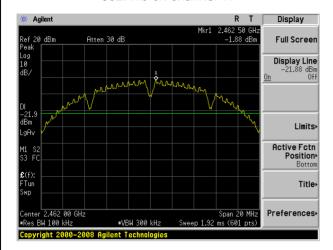


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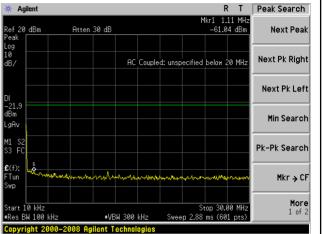




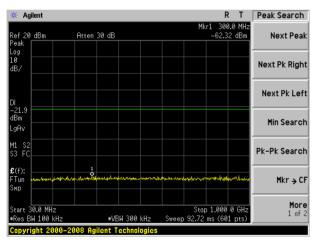
802.11b on channel 11



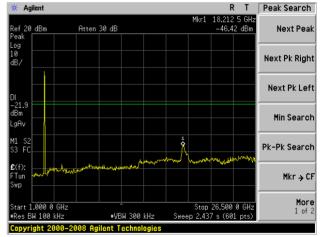
802.11b on channel 11



802.11b on channel 11



802.11b on channel 11

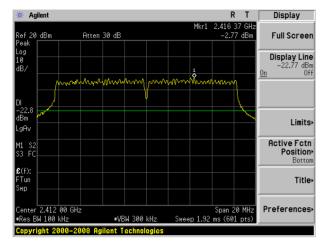


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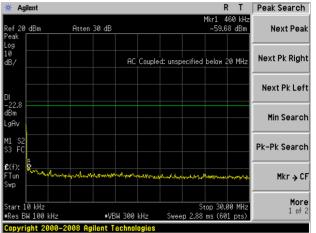




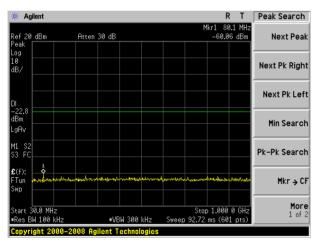
802.11g on channel 01



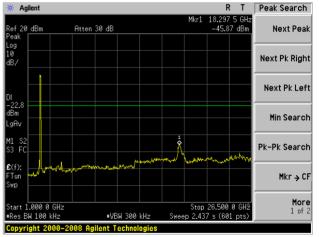
802.11g on channel 01



802.11g on channel 01



802.11g on channel 01

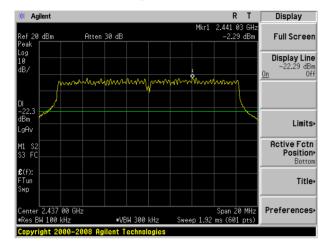


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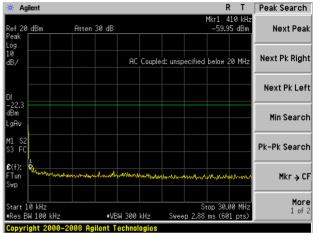




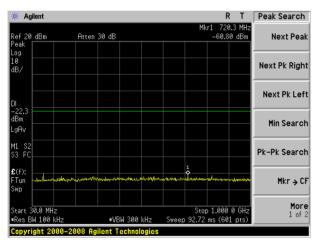
802.11g on channel 06



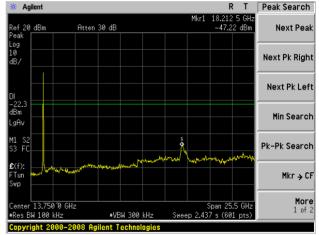
802.11g on channel 06



802.11g on channel 06



802.11g on channel 06

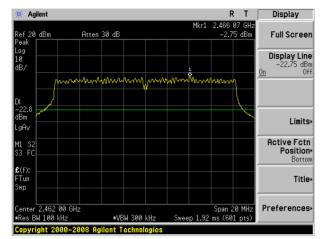


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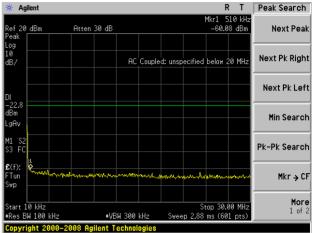




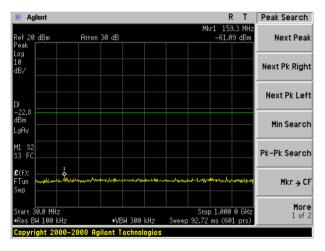
802.11g on channel 11



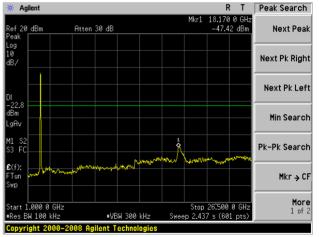
802.11g on channel 11



802.11g on channel 11



802.11g on channel 11

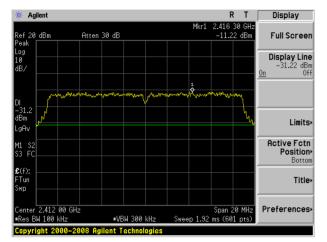


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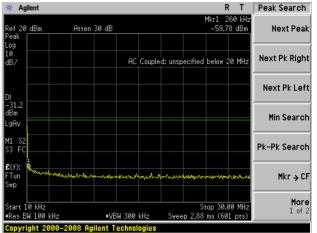




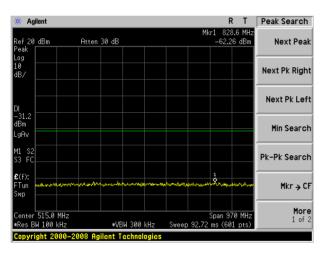
802.11n20 on channel 01



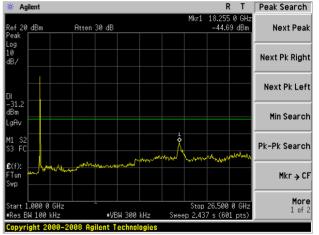
802.11n20 on channel 01



802.11 n20 on channel 01



802.11 n20 on channel 01

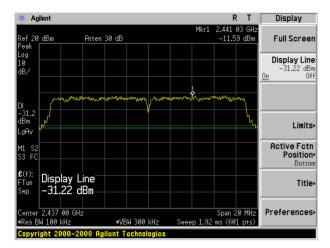


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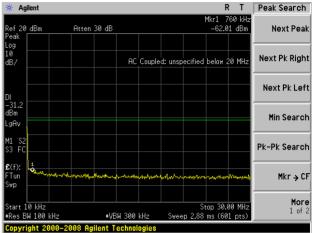




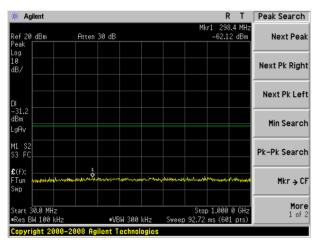
802.11 n20 on channel 06



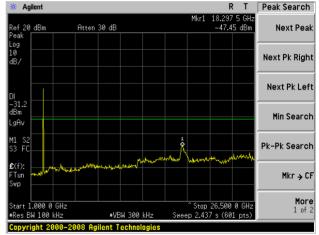
802.11 n20 on channel 06



802.11 n20 on channel 06



802.11 n20 on channel 06

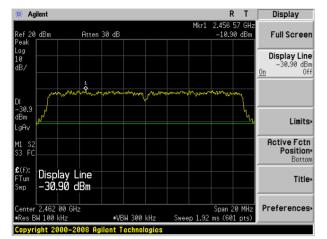


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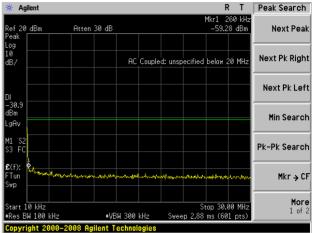




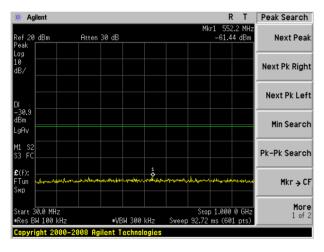
802.11 n20 on channel 11



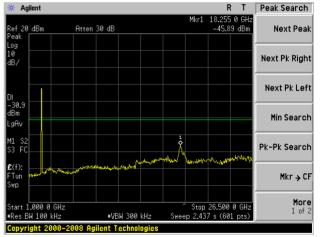
802.11 n20 on channel 11



802.11 n20 on channel 11



802.11 n20 on channel 11

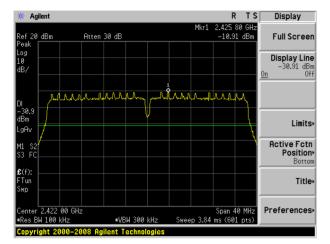


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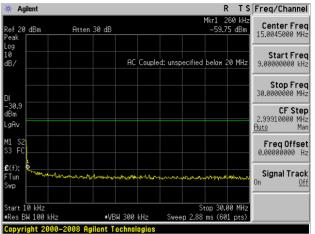




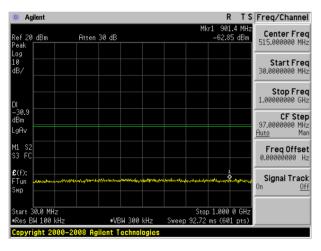
802.11n40 on channel 03



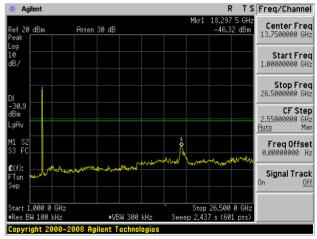
802.11n40 on channel 03



802.11n40 on channel 03



802.11n40 on channel 03

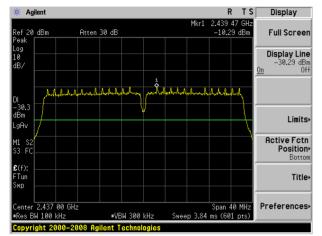


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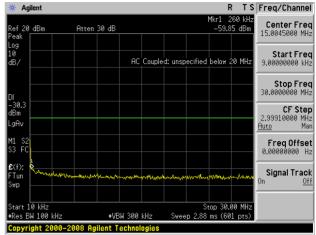




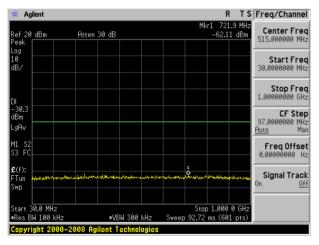
802.11n40 on channel 06



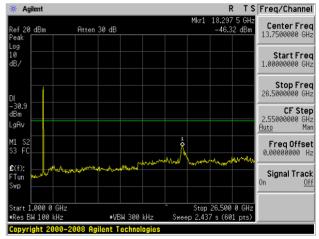
802.11 n40 on channel 06



802.11 n40 on channel 06



802.11 n40 on channel 06

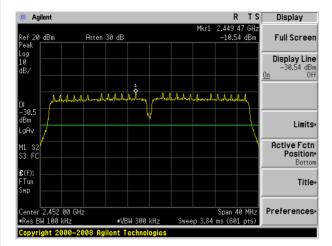


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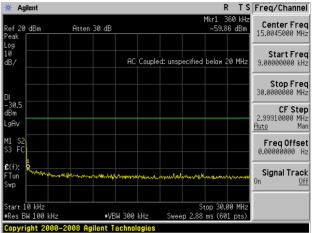




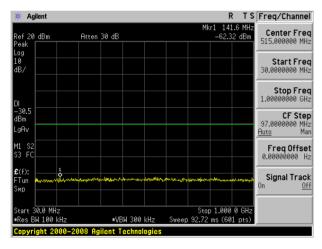
802.11 n40 on channel 9



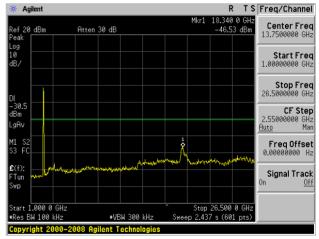
802.11 n40 on channel 9



802.11 n40 on channel 9



802.11 n40 on channel 9



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7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

7.9.2 **Result**

The EUT antenna is permanent attached Cu antenna(Gain:2dBi). It comply with the standard requirement.

END OF REPORT

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