

# FCC Radio Test Report

## FCC ID: 2AEUS-A07

### Original Grant

**Report No.** : TB-FCC144239  
**Applicant** : Shenzhen Sunshine Technology Development Co.,Ltd  
**Equipment Under Test (EUT)**  
**EUT Name** : Action camera  
**Model No.** : A07  
**Serial No.** : A01, A04, A05, A06, A07B, A07C  
**Receipt Date** : 2015-05-18  
**Test Date** : 2015-05-19 to 2015-09-13  
**Issue Date** : 2015-09-15  
**Standards** : FCC Part 15, Subpart C (15.247:2014)  
**Test Method** : ANSI C63.10: 2013  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** :

IWAN SU

**Approved &  
Authorized**

Ray



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



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# 1. General Information about EUT

## 1.1 Client Information

**Applicant** : Shenzhen Sunshine Technology Development Co.,Ltd  
**Address** : 4/F, block 4, HongHuaLing Industrial Park(zone 2), Taoyuan street, Xili, Nanshan District, Shenzhen, China  
**Manufacturer** : Shenzhen Sunshine Technology Development Co.,Ltd  
**Address** : 4/F, block 4, HongHuaLing Industrial Park(zone 2), Taoyuan street, Xili, Nanshan District, Shenzhen, China

## 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	Action camera
<b>Models No.</b>	:	A07, A01, A04, A05, A06, A07B, A07C
<b>Model Difference</b>	:	All models are identical in the same PCB layout, interior structure and electrical circuits, the only difference is model name for commercial purpose.
<b>Product Description</b>	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
	:	Number of Channel: 802.11b/g/n(HT20):11 channels <b>see note(3)</b> 802.11n(HT40): 7 channels <b>see note(3)</b>
	:	RF Output Power: 802.11b: 9.27 dBm 802.11g: 9.09 dBm 802.11n (HT20): 8.85dBm 802.11n (HT40): 9.08dBm
	:	Antenna Gain: 2 dBi (FPC Antenna)
	:	Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM 802.11n: OFDM
	:	Bit Rate of Transmitter: 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
<b>Power Supply</b>	:	DC power supplied by Car Charger. DC power by Li-ion Battery.
<b>Power Rating</b>	:	Input: DC 12V~24V. Output: 5V, 1A. DC 3.7V 700mAh Li-ion Battery.
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**Note:**

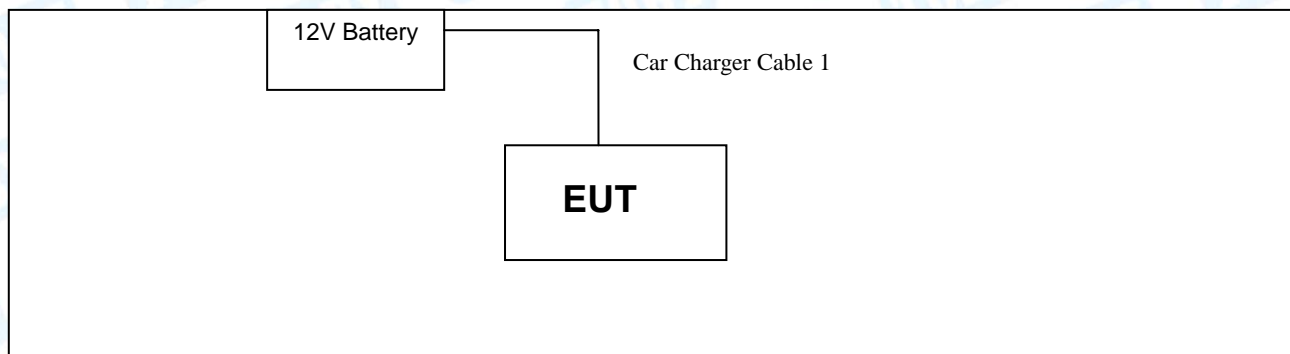
- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>01</b>	<b>2412</b>	05	2432	09	2452
02	2417	<b>06</b>	<b>2437</b>	10	2457
03	2422	07	2442	<b>11</b>	<b>2462</b>
04	2427	08	2447		
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

- (4) The Antenna information about the equipment is provided by the applicant.

### 1.3 Block Diagram Showing the Configuration of System Tested

**TX Mode**





## 1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
12V Battery	---	---	---	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	YES	3.7M	Accessories

## 1.5 Description of Test Mode

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 follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	DC Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 3	TX Mode B Mode Channel 01/06/11
Mode 4	TX Mode G Mode Channel 01/06/11
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11
Mode 6	TX Mode N(HT40) Mode Channel 03/06/09

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The



worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	AccessPort		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	41	39	39
IEEE 802.11g OFDM	49	47	47
IEEE 802.11n (HT20)	48	48	48
	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	50	50	48

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , 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 %.

Test Item	Parameters	Expanded Uncertainty ( $U_{Lab}$ )
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm 3.42$ dB $\pm 3.42$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.40$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB



## 1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **FCC List No.: (811562)**

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.



## 2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
<b>Note:</b> “/” for no requirement for this test item. N/A is an abbreviation for Not Applicable.				



### 3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



## 4. Conducted Emission Test

### 4.1 Test Standard and Limit

4.1.1 Test Standard  
FCC Part 15.207

4.1.2 Test Limit

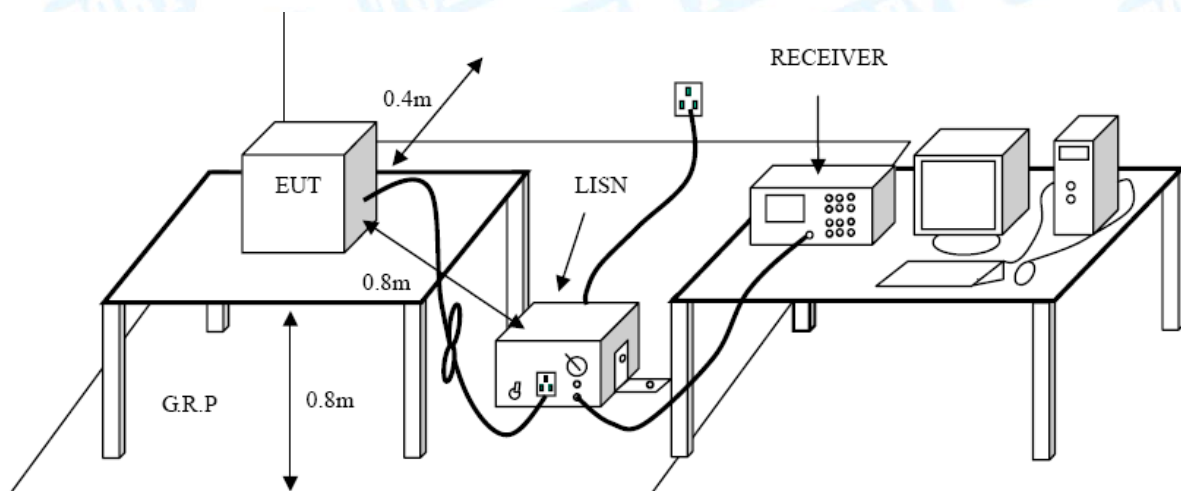
**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2 Test Setup



### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected 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.

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 40 cm long.



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.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

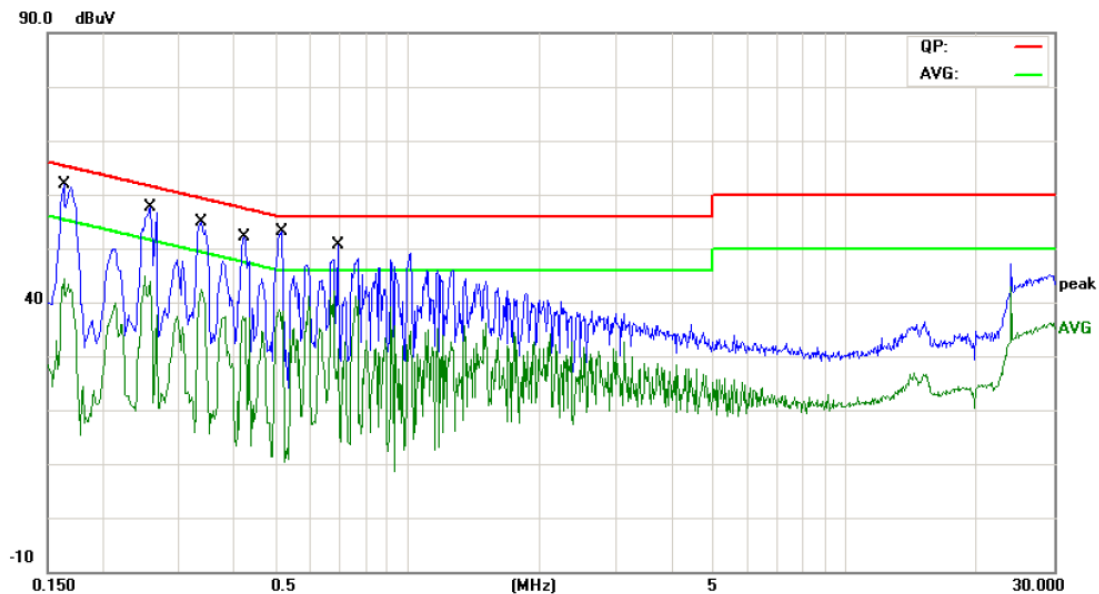
#### 4.4 EUT Operating Mode

Please refer to the description of test mode.

#### 4.5 Test Data

Please see the next page.

<b>EUT:</b>	Action camera	<b>Model Name :</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	DC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



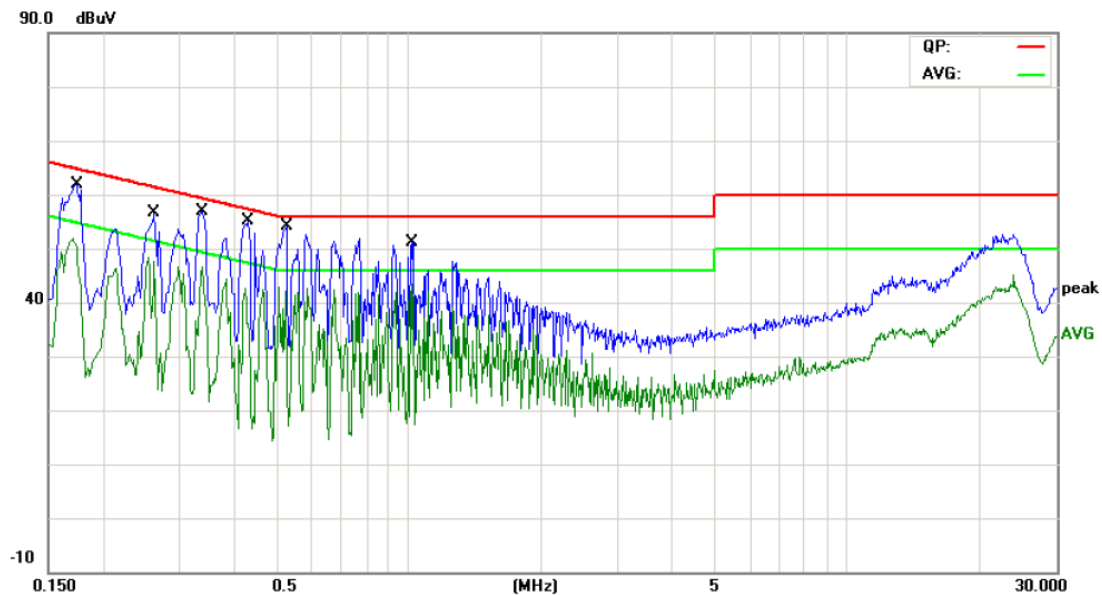
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1640	50.67	11.11	61.78	65.25	-3.47	QP
2		0.1640	30.14	11.11	41.25	55.25	-14.00	AVG
3		0.2580	47.21	10.38	57.59	61.49	-3.90	QP
4		0.2580	33.49	10.38	43.87	51.49	-7.62	AVG
5		0.3379	44.63	10.21	54.84	59.25	-4.41	QP
6		0.3379	32.04	10.21	42.25	49.25	-7.00	AVG
7		0.4220	41.97	10.10	52.07	57.41	-5.34	QP
8		0.4220	26.49	10.10	36.59	47.41	-10.82	AVG
9	*	0.5140	43.16	9.97	53.13	56.00	-2.87	QP
10		0.5180	26.41	9.97	36.38	46.00	-9.62	AVG
11		0.6900	40.60	9.97	50.57	56.00	-5.43	QP
12		0.6900	21.35	9.97	31.32	46.00	-14.68	AVG

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**



<b>EUT:</b>	Action camera	<b>Model Name :</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	DC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		

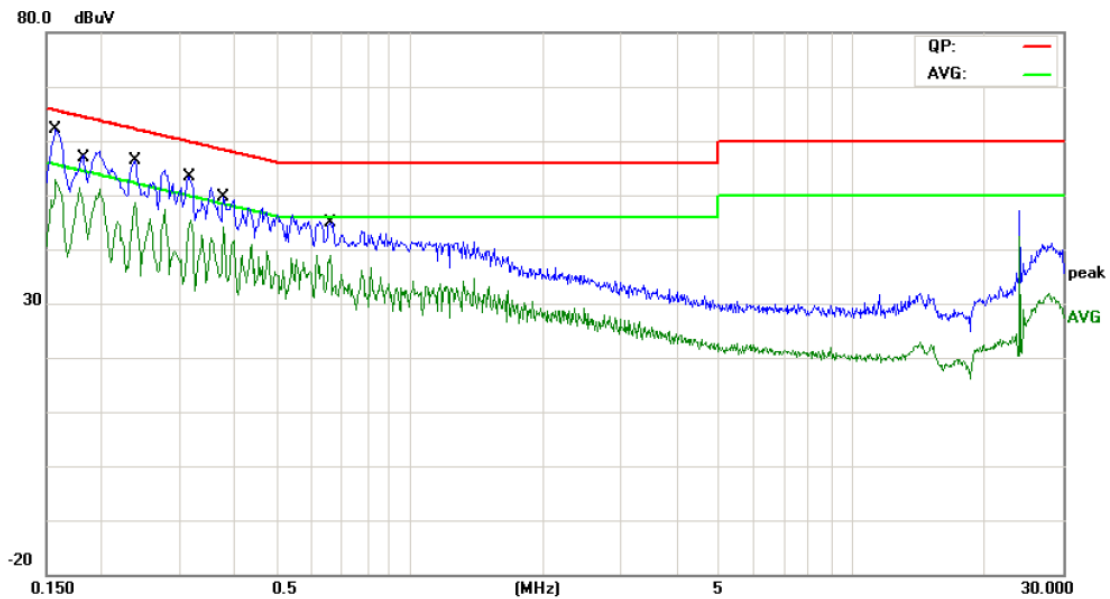


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1740	50.92	11.08	62.00	64.76	-2.76	QP
2		0.1740	36.49	11.08	47.57	54.76	-7.19	AVG
3		0.2620	46.19	10.45	56.64	61.36	-4.72	QP
4		0.2620	37.13	10.45	47.58	51.36	-3.78	AVG
5		0.3379	46.56	10.29	56.85	59.25	-2.40	QP
6		0.3379	36.37	10.29	46.66	49.25	-2.59	AVG
7		0.4299	44.93	10.15	55.08	57.25	-2.17	QP
8		0.4299	26.01	10.15	36.16	47.25	-11.09	AVG
9	*	0.5260	44.04	10.00	54.04	56.00	-1.96	QP
10		0.5260	13.87	10.00	23.87	46.00	-22.13	AVG
11		1.0180	41.30	9.90	51.20	56.00	-4.80	QP
12		1.0180	33.58	9.90	43.48	46.00	-2.52	AVG

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Action camera	<b>Model Name :</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 24V		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	DC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



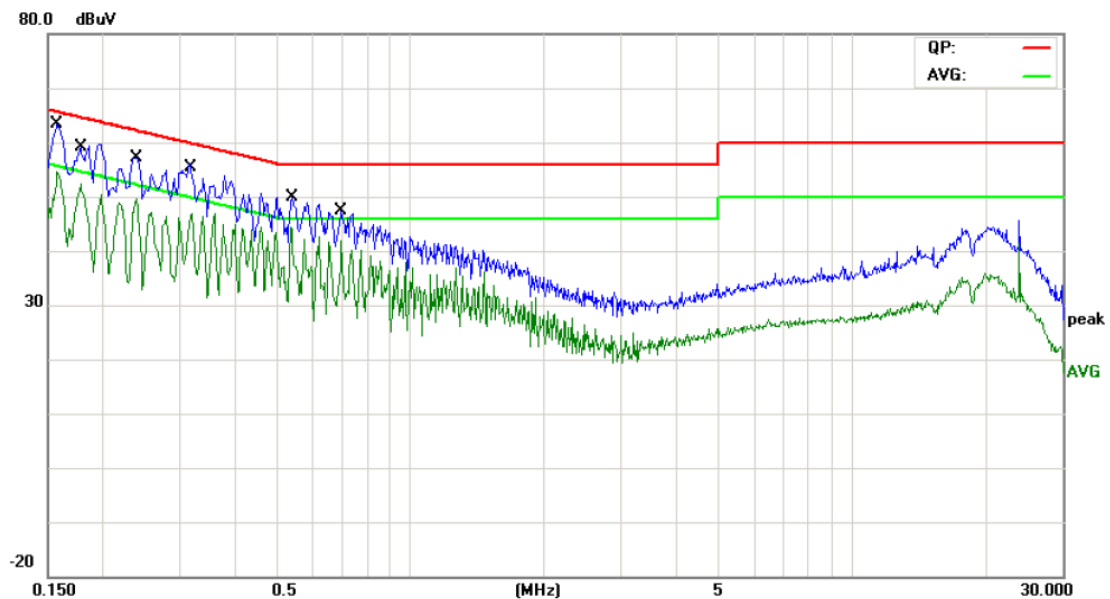
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1580	51.03	11.18	62.21	65.56	-3.35	QP
2	*	0.1580	41.76	11.18	52.94	55.56	-2.62	AVG
3		0.1780	44.40	10.97	55.37	64.57	-9.20	QP
4		0.1780	40.40	10.97	51.37	54.57	-3.20	AVG
5		0.2380	45.77	10.49	56.26	62.16	-5.90	QP
6		0.2380	38.15	10.49	48.64	52.16	-3.52	AVG
7		0.3183	42.38	10.23	52.61	59.75	-7.14	QP
8		0.3183	35.05	10.23	45.28	49.75	-4.47	AVG
9		0.3780	39.40	10.16	49.56	58.32	-8.76	QP
10		0.3780	33.91	10.16	44.07	48.32	-4.25	AVG
11		0.6580	34.85	9.95	44.80	56.00	-11.20	QP
12		0.6580	28.94	9.95	38.89	46.00	-7.11	AVG

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**



<b>EUT:</b>	Action camera	<b>Model Name :</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 24V		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	DC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1580	52.28	11.18	63.46	65.56	-2.10	QP
2	*	0.1580	43.47	11.18	54.65	55.56	-0.91	AVG
3		0.1780	47.18	10.97	58.15	64.57	-6.42	QP
4		0.1780	41.31	10.97	52.28	54.57	-2.29	AVG
5		0.2380	46.68	10.49	57.17	62.16	-4.99	QP
6		0.2380	39.07	10.49	49.56	52.16	-2.60	AVG
7		0.3183	43.68	10.23	53.91	59.75	-5.84	QP
8		0.3183	36.57	10.23	46.80	49.75	-2.95	AVG
9		0.5340	39.15	9.96	49.11	56.00	-6.89	QP
10		0.5340	34.51	9.96	44.47	46.00	-1.53	AVG
11		0.6940	37.34	9.97	47.31	56.00	-8.69	QP
12		0.6940	32.00	9.97	41.97	46.00	-4.03	AVG

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

## 5. Radiated Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.209

#### 5.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

**Radiated Emission Limit (Above 1000MHz)**

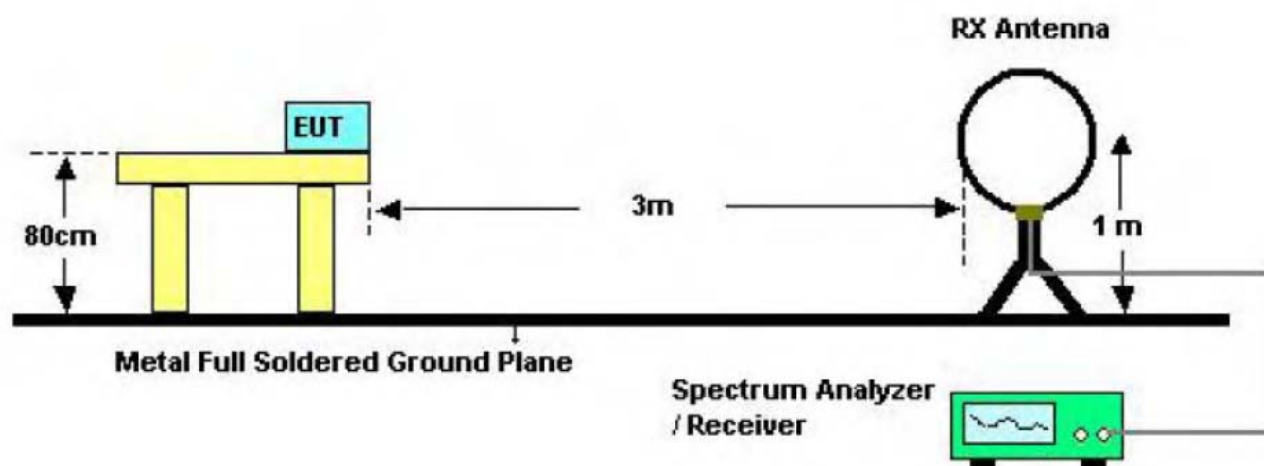
Frequency (MHz)	Class A (dBUV/m)(at 3 M)		Class B (dBUV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

**Note:**

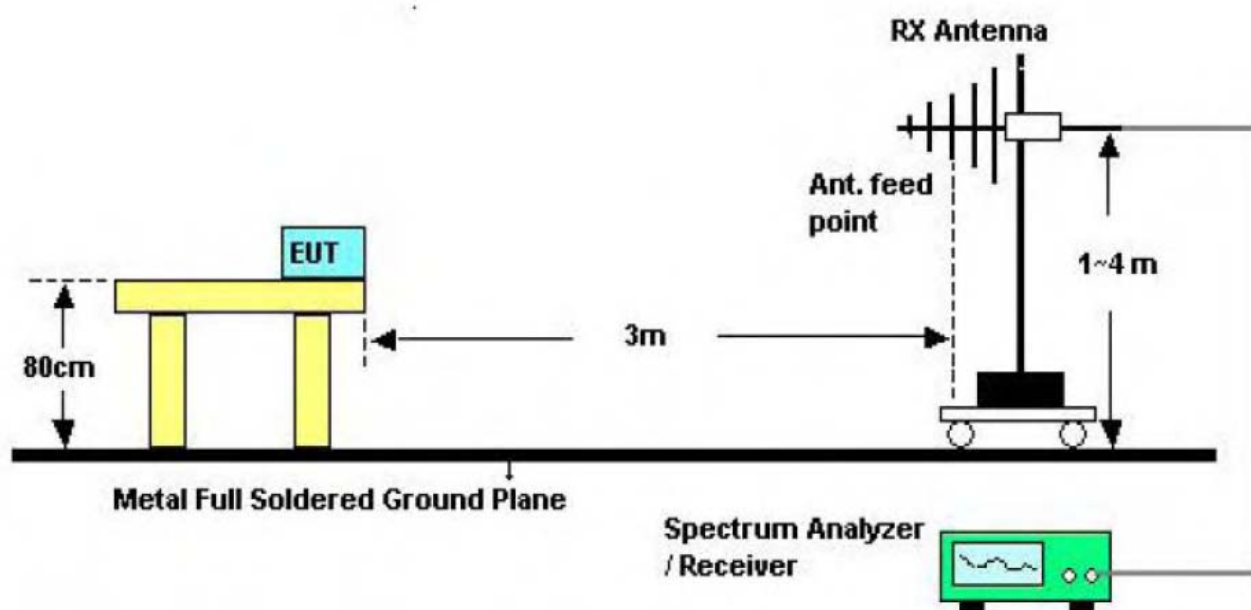
- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBUV/m)=20log Emission Level(uV/m)



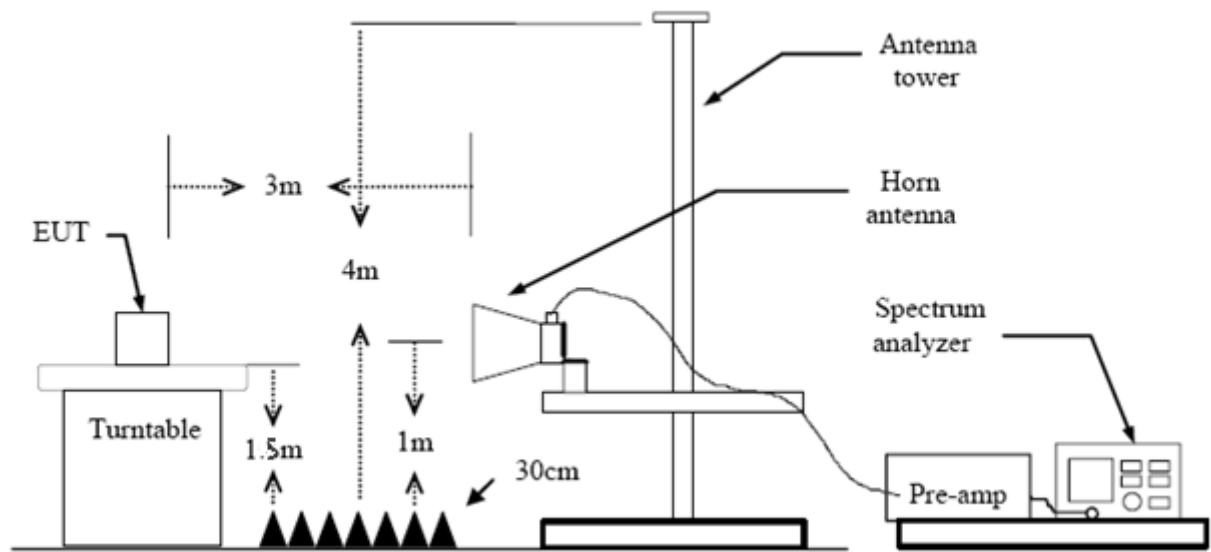
## 5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



## 5.4 EUT Operating Condition

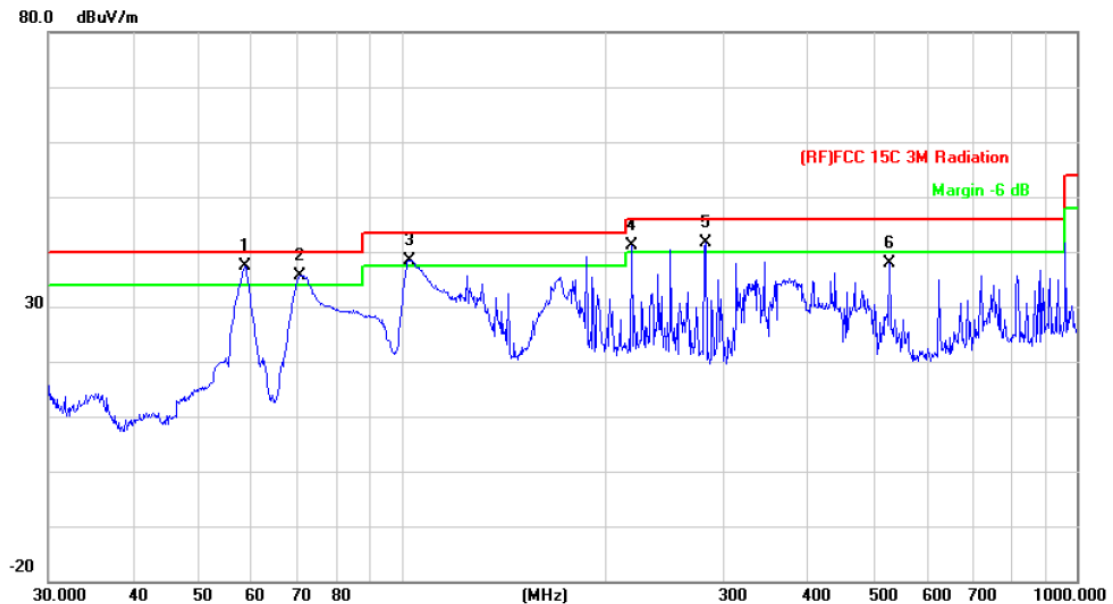
The Equipment Under Test was set to Continual Transmitting in maximum power.

## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



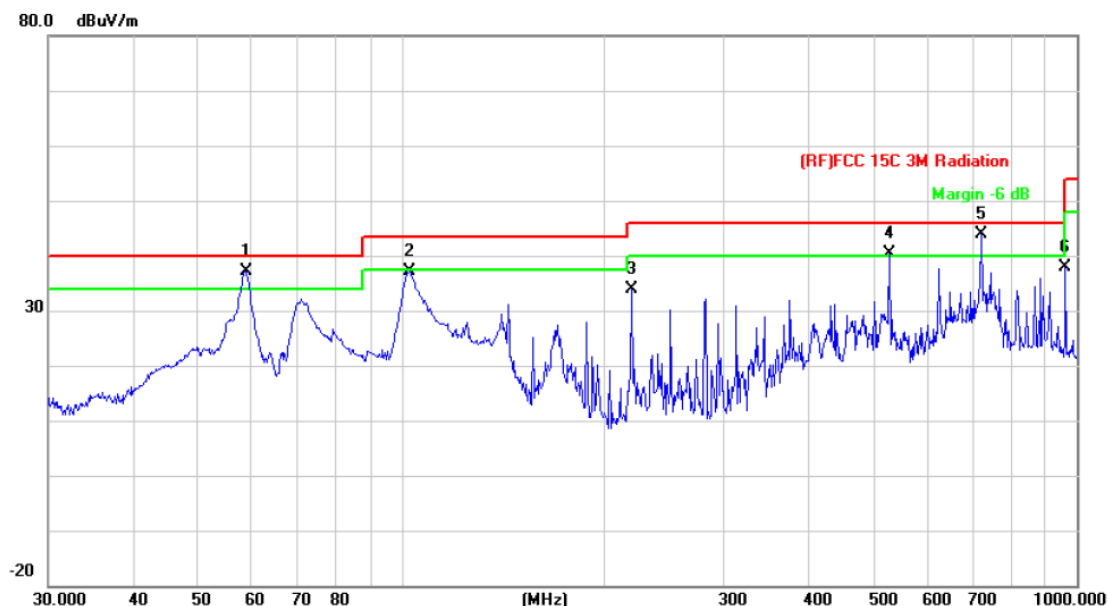
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	58.6126	61.85	-24.51	37.34	40.00	-2.66	peak
2	!	70.5836	59.34	-23.60	35.74	40.00	-4.26	peak
3	!	102.7192	60.28	-21.83	38.45	43.50	-5.05	peak
4	!	219.0749	60.61	-19.57	41.04	46.00	-4.96	peak
5	!	281.9945	59.00	-17.44	41.56	46.00	-4.44	peak
6		528.2458	48.03	-10.14	37.89	46.00	-8.11	peak

\*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		

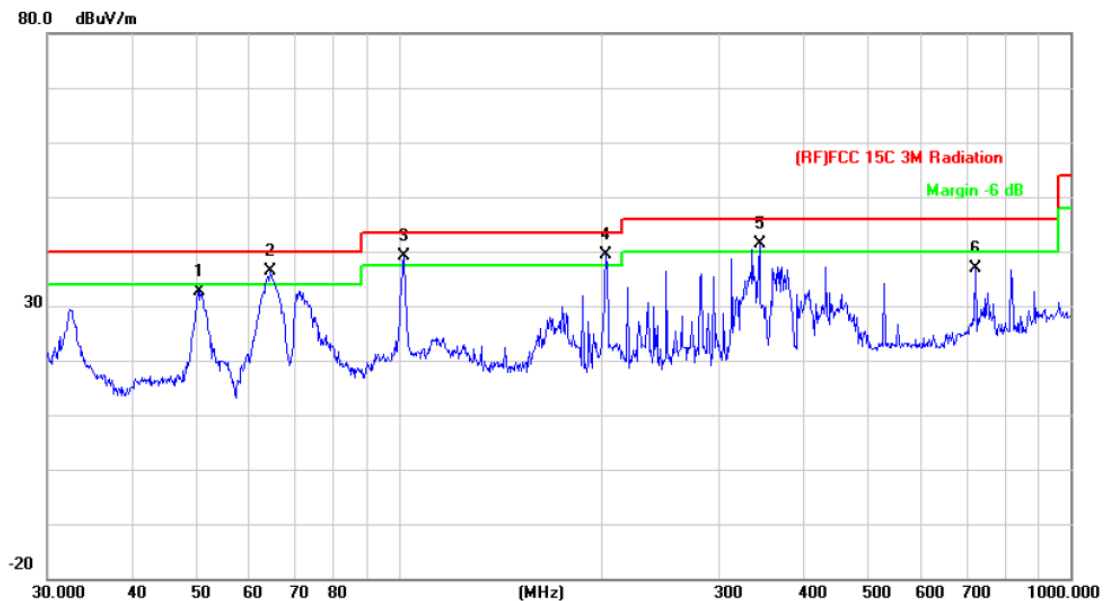


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	58.8185	61.76	-24.51	37.25	40.00	-2.75	peak
2		102.7192	59.00	-21.83	37.17	43.50	-6.33	peak
3		219.0751	53.49	-19.57	33.92	46.00	-12.08	peak
4	!	528.2458	50.40	-10.14	40.26	46.00	-5.74	peak
5	*	721.7259	50.92	-7.10	43.82	46.00	-2.18	peak
6		962.1621	42.64	-4.84	37.80	54.00	-16.20	peak

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 24V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		



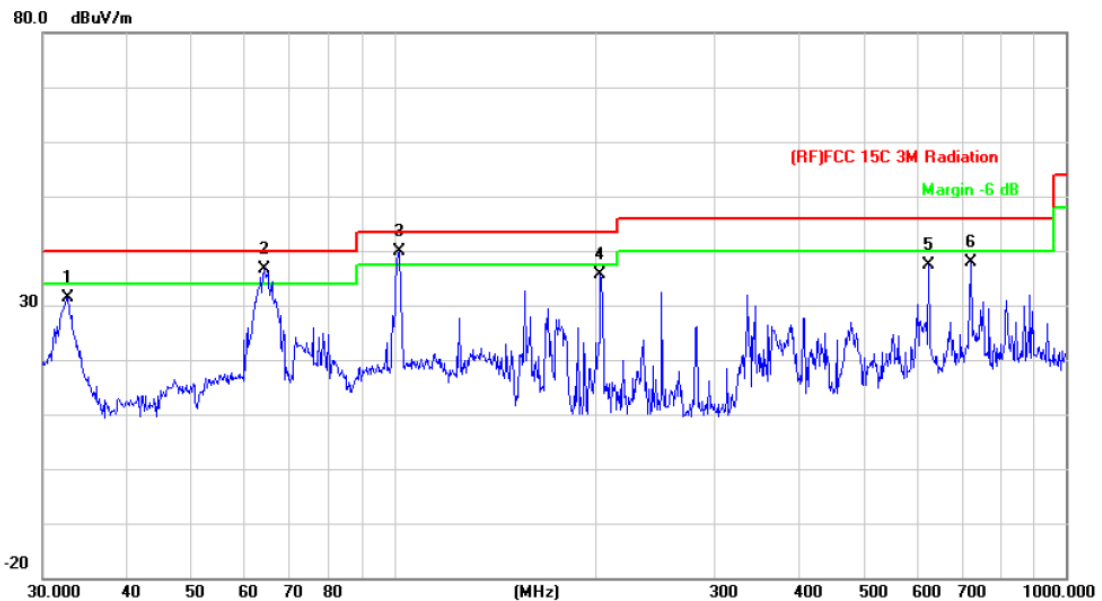
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		50.4089	57.10	-24.40	32.70	40.00	-7.30	peak
2	*	64.4330	60.41	-24.12	36.29	40.00	-3.71	peak
3	!	101.6443	60.93	-21.82	39.11	43.50	-4.39	peak
4	!	203.5226	59.59	-20.24	39.35	43.50	-4.15	peak
5	!	344.3854	56.37	-14.96	41.41	46.00	-4.59	peak
6		721.7259	43.96	-7.10	36.86	46.00	-9.14	peak

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**



<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 24V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		

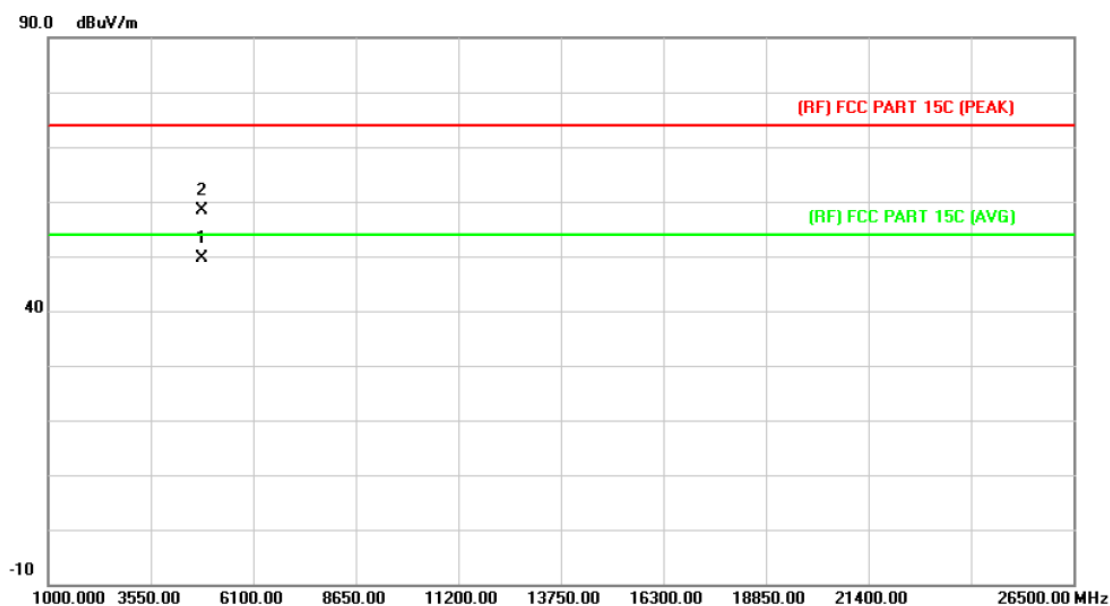


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		32.7486	46.99	-15.66	31.33	40.00	-8.67	peak
2	*	64.2074	60.77	-24.14	36.63	40.00	-3.37	peak
3	!	101.6443	61.65	-21.82	39.83	43.50	-3.67	peak
4		202.8103	55.85	-20.27	35.58	43.50	-7.92	peak
5		625.0778	45.96	-8.51	37.45	46.00	-8.55	peak
6		721.7259	44.97	-7.10	37.87	46.00	-8.13	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

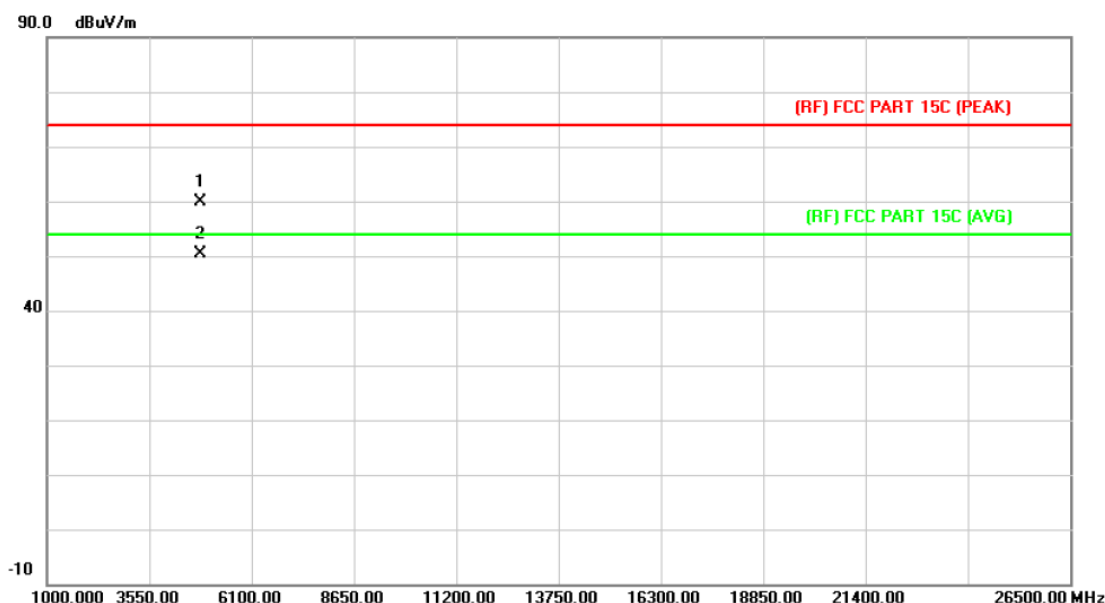


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.130	36.11	13.56	49.67	54.00	-4.33	AVG
2		4824.231	44.93	13.56	58.49	74.00	-15.51	peak

Emission Level= Read Level+ Correct Factor



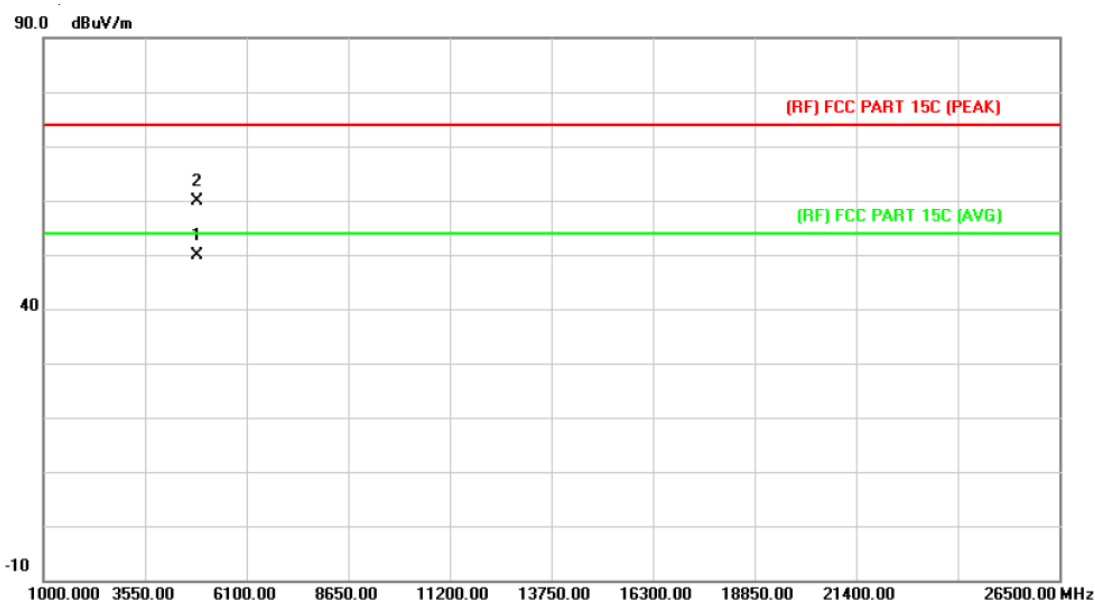
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.587	46.22	13.56	59.78	74.00	-14.22	peak
2	*	4823.861	36.75	13.56	50.31	54.00	-3.69	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

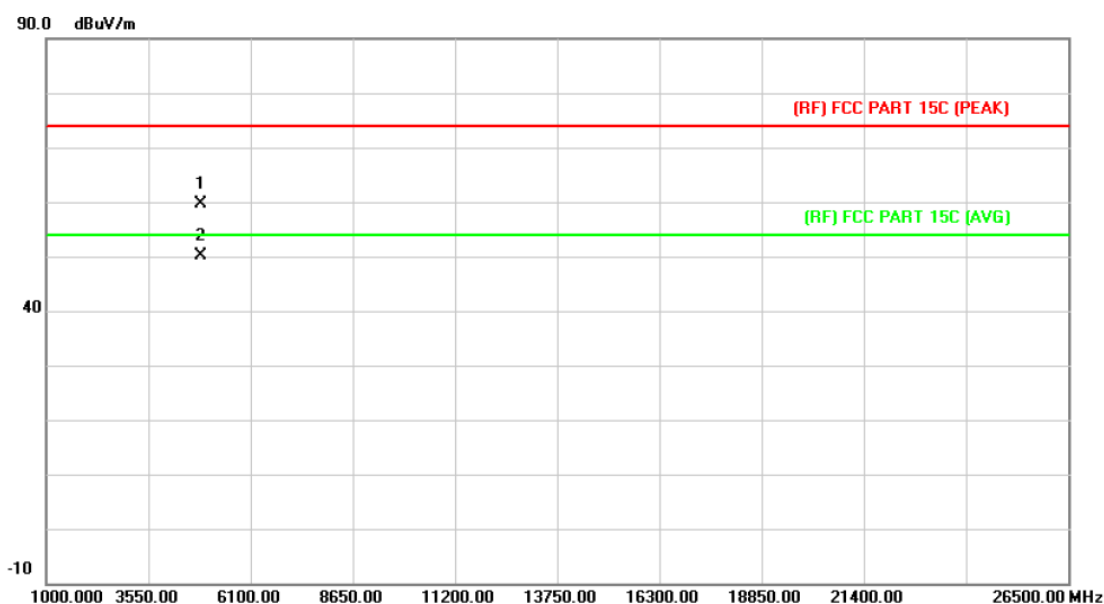


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.947	36.02	13.86	49.88	54.00	-4.12	AVG
2		4874.051	46.01	13.86	59.87	74.00	-14.13	peak

Emission Level= Read Level+ Correct Factor



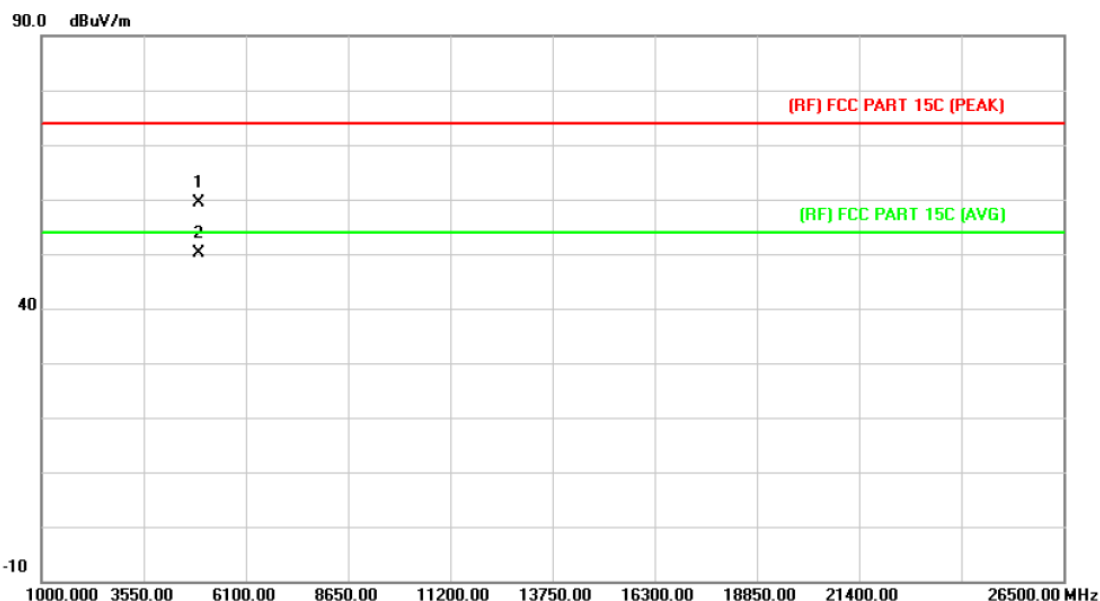
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.038	45.75	13.86	59.61	74.00	-14.39	peak
2	*	4874.054	36.31	13.86	50.17	54.00	-3.83	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

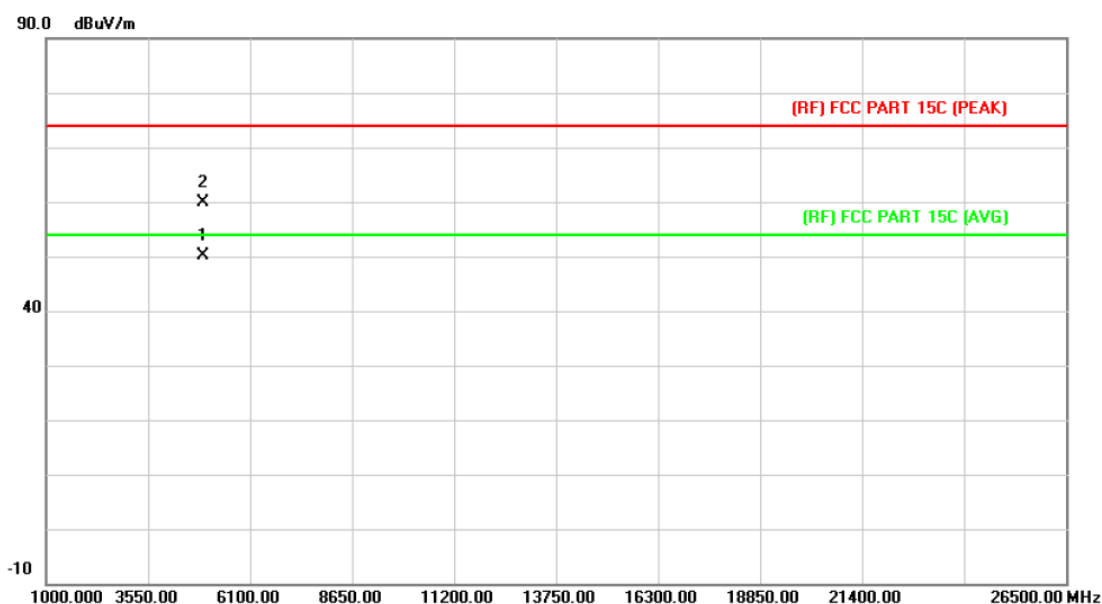


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4924.038	45.19	14.15	59.34	74.00	-14.66 peak
2	*	4924.056	35.87	14.15	50.02	54.00	-3.98 AVG

Emission Level= Read Level+ Correct Factor



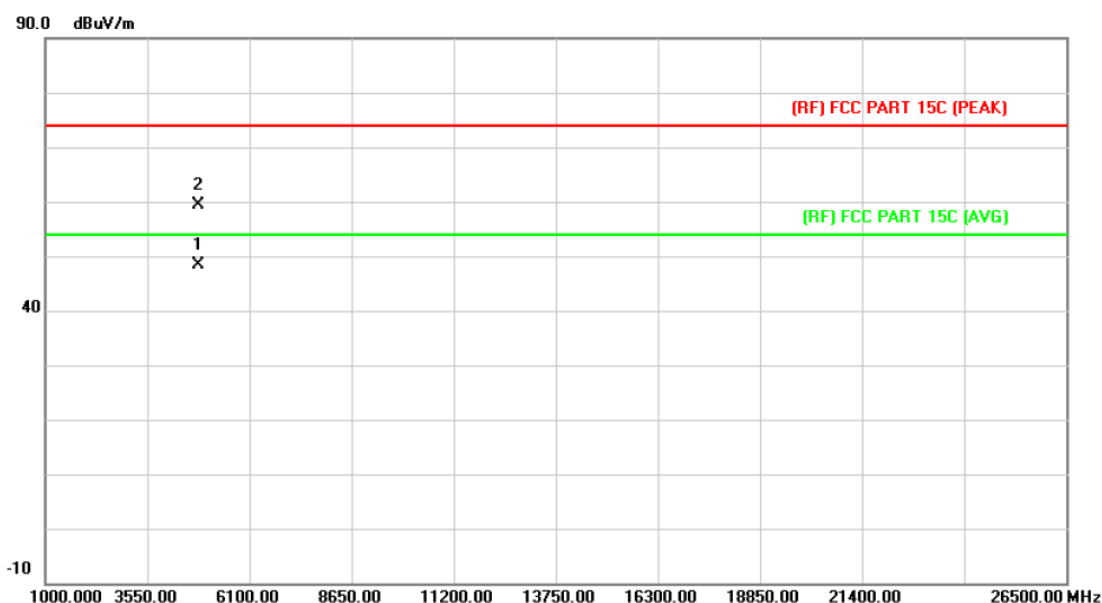
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.875	36.03	14.15	50.18	54.00	-3.82	AVG
2		4924.730	45.74	14.15	59.89	74.00	-14.11	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

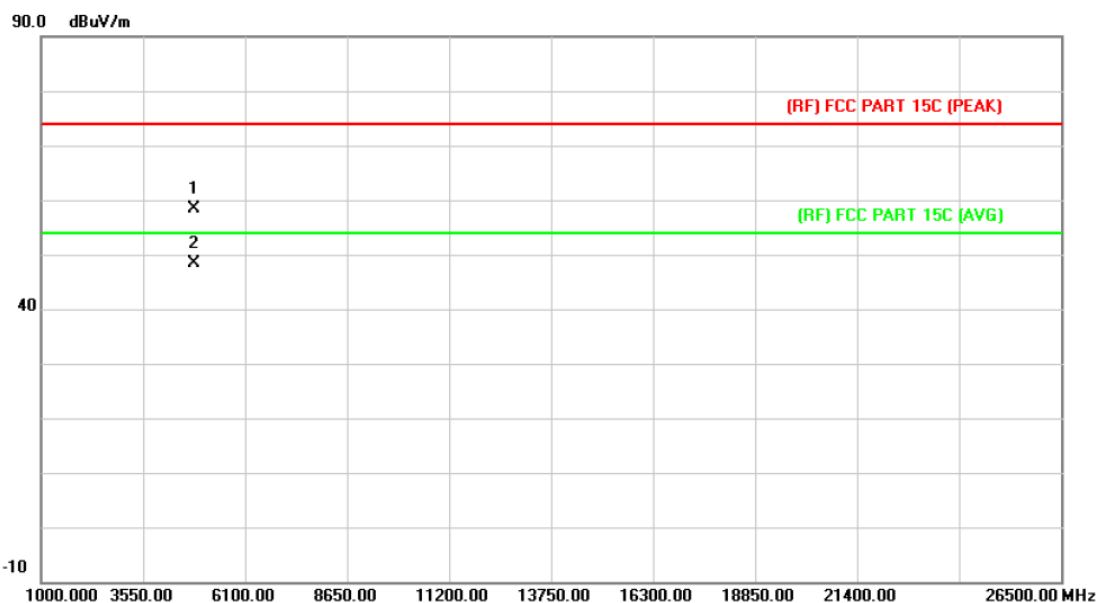


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.514	34.82	13.56	48.38	54.00	-5.62	AVG
2		4824.346	45.81	13.56	59.37	74.00	-14.63	peak

Emission Level= Read Level+ Correct Factor



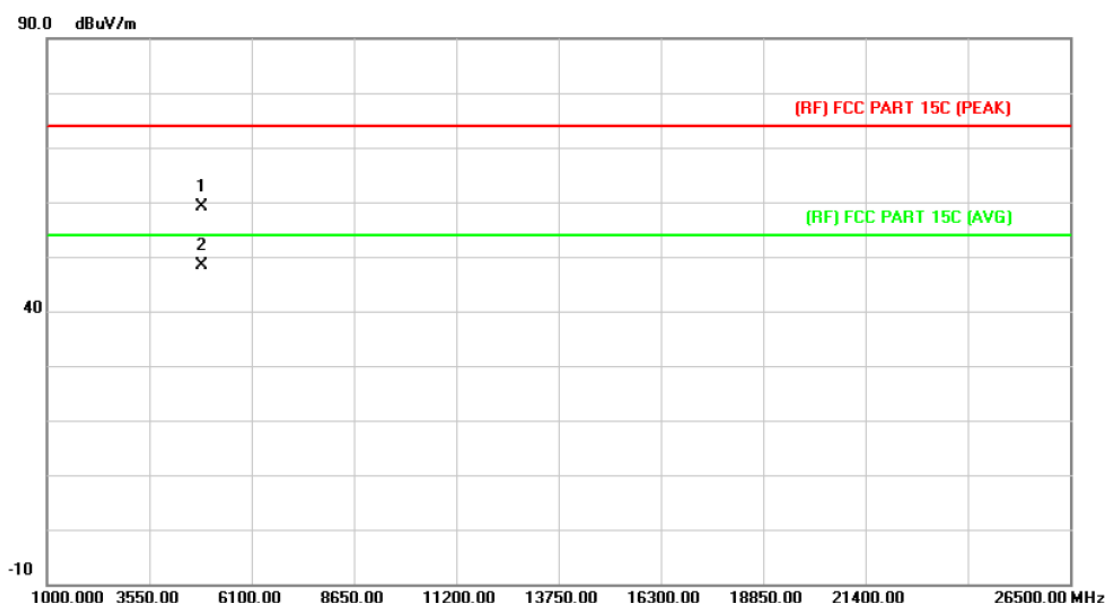
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.412	44.92	13.56	58.48	74.00	-15.52	peak
2	*	4823.964	34.83	13.56	48.39	54.00	-5.61	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

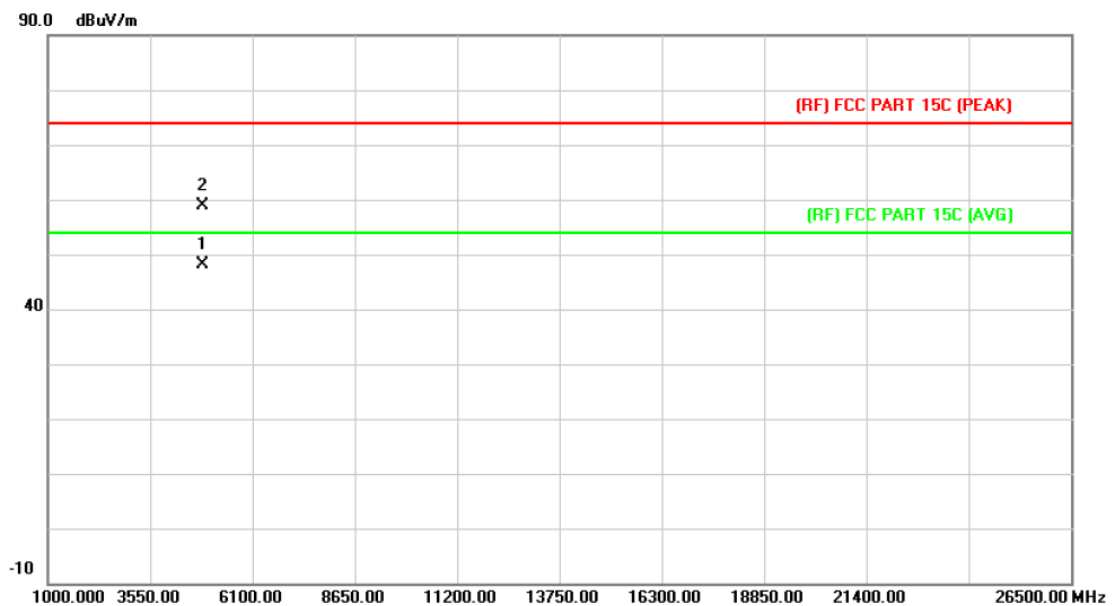


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.648	45.18	13.86	59.04	74.00	-14.96	peak
2	*	4874.154	34.50	13.86	48.36	54.00	-5.64	AVG

Emission Level= Read Level+ Correct Factor



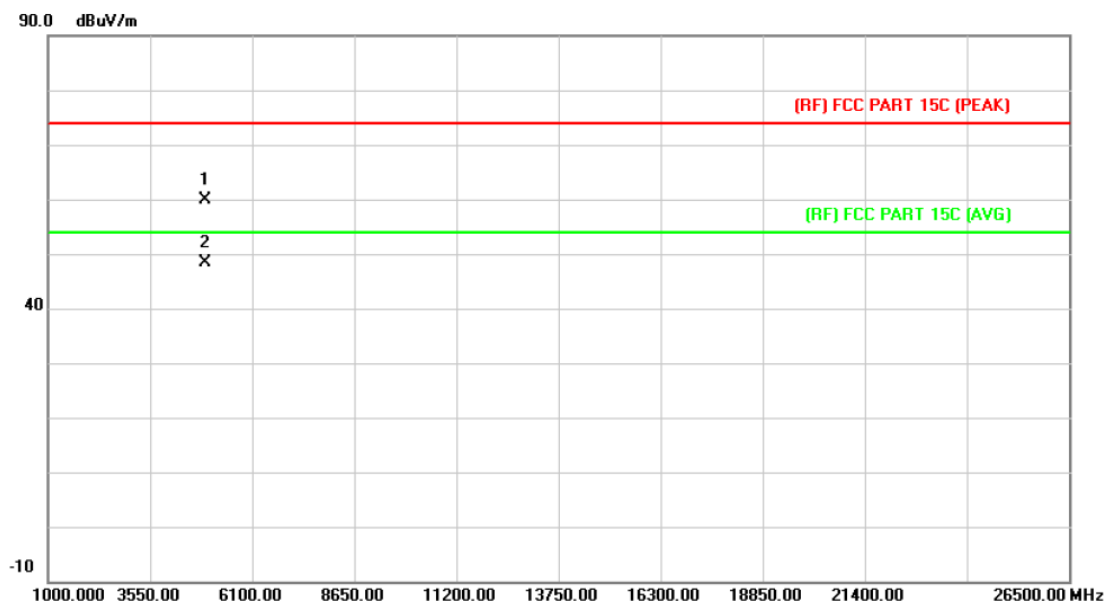
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.487	34.38	13.86	48.24	54.00	-5.76	AVG
2		4873.957	45.09	13.86	58.95	74.00	-15.05	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

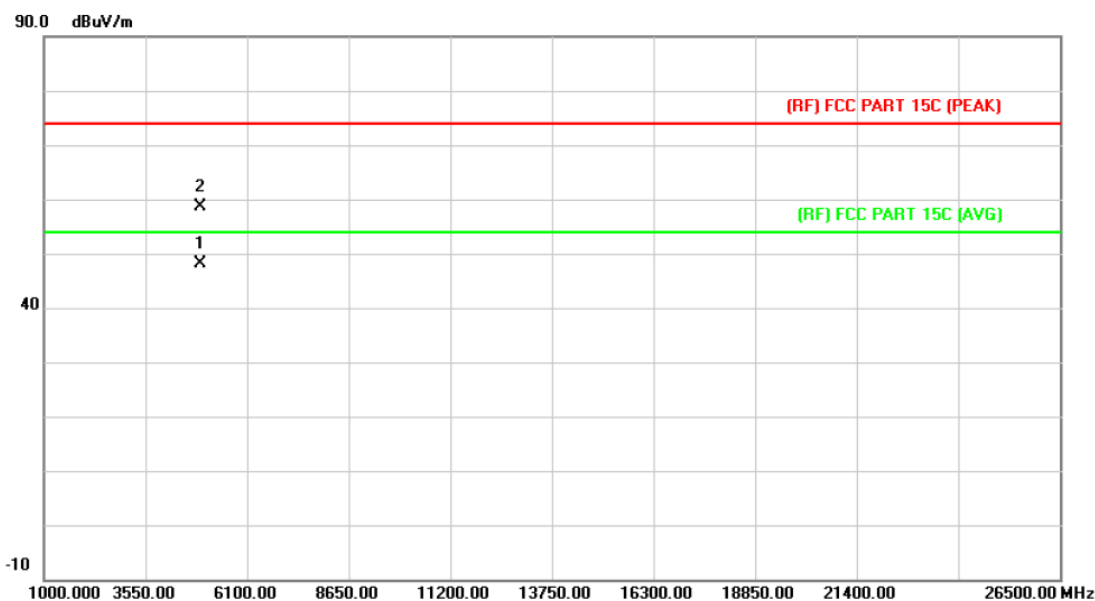


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.943	45.73	14.15	59.88	74.00	-14.12	peak
2	*	4924.192	34.30	14.15	48.45	54.00	-5.55	AVG

Emission Level= Read Level+ Correct Factor



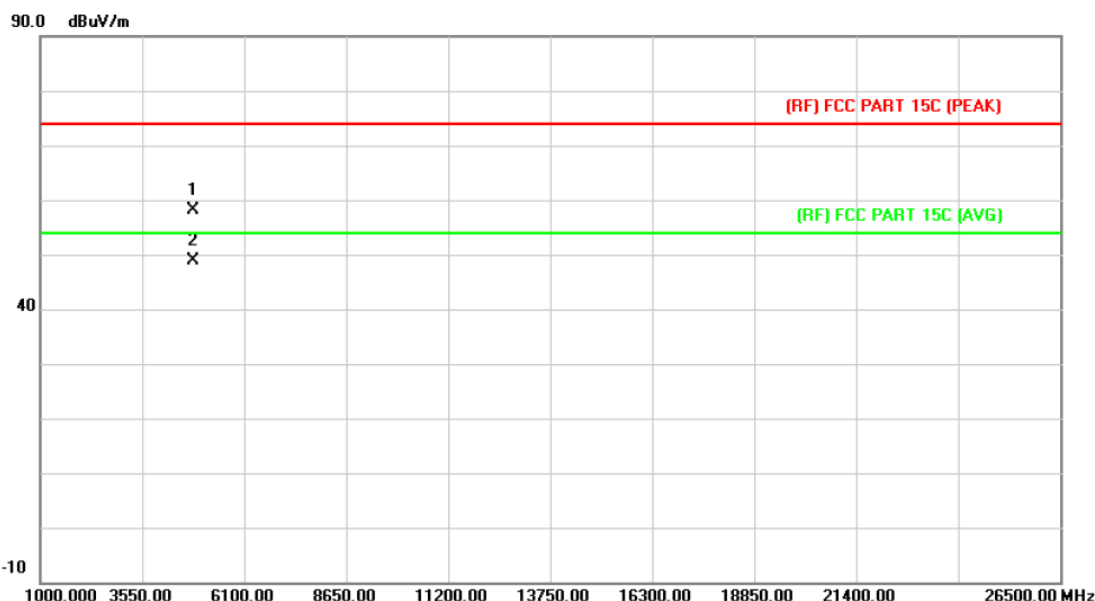
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.435	34.09	14.15	48.24	54.00	-5.76	AVG
2		4924.451	44.60	14.15	58.75	74.00	-15.25	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

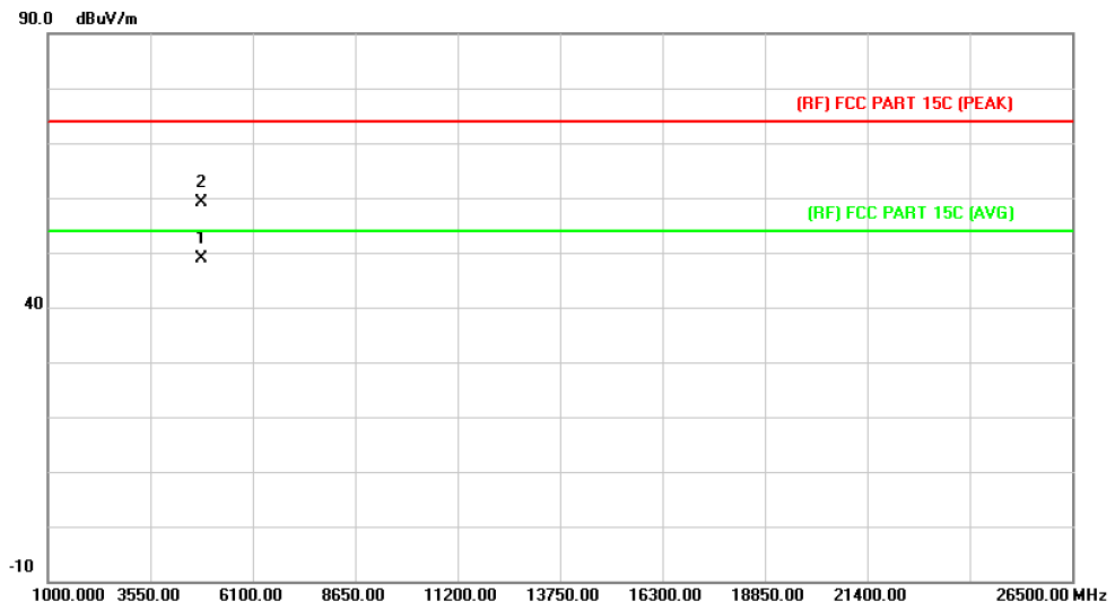


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.642	44.65	13.56	58.21	74.00	-15.79	peak
2	*	4824.247	35.41	13.56	48.97	54.00	-5.03	AVG

**Emission Level= Read Level+ Correct Factor**



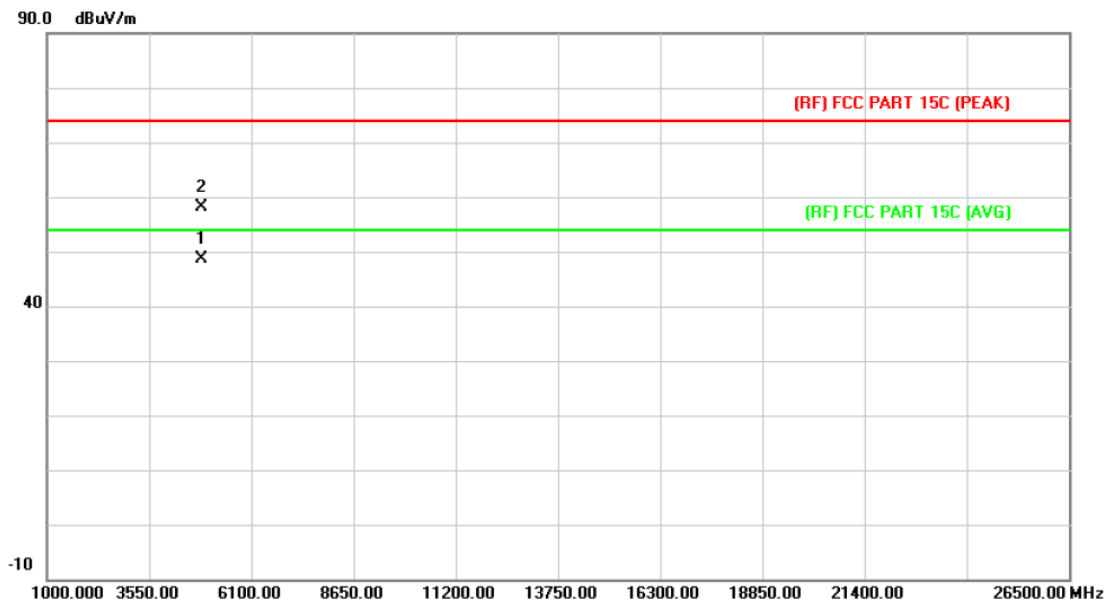
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.136	35.21	13.56	48.77	54.00	-5.23	AVG
2		4824.301	45.48	13.56	59.04	74.00	-14.96	peak

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

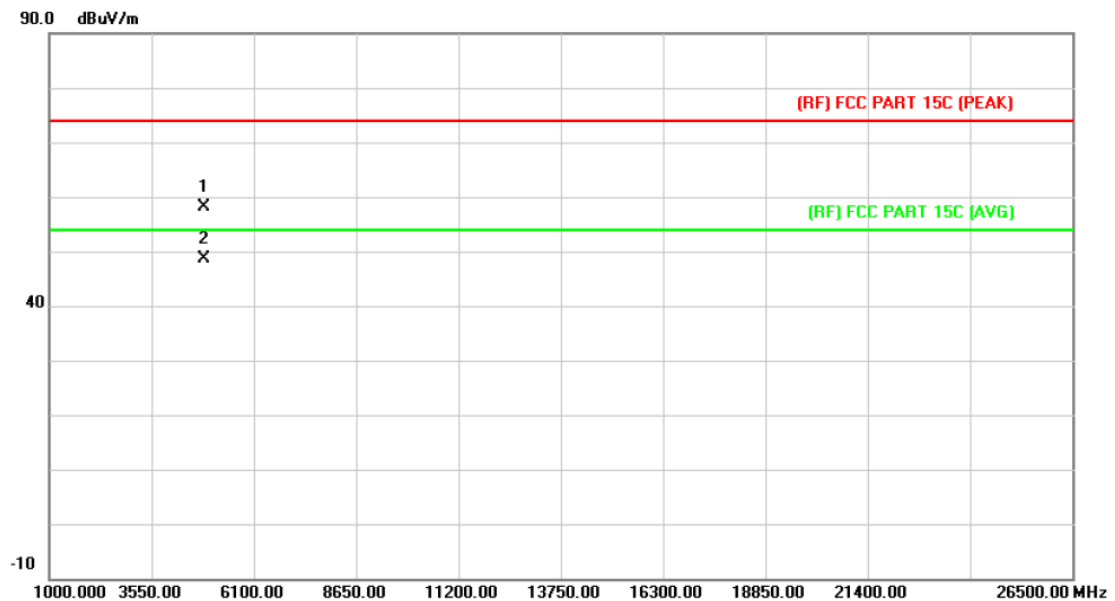


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.066	34.65	13.86	48.51	54.00	-5.49	AVG
2		4874.669	44.37	13.86	58.23	74.00	-15.77	peak

Emission Level= Read Level+ Correct Factor



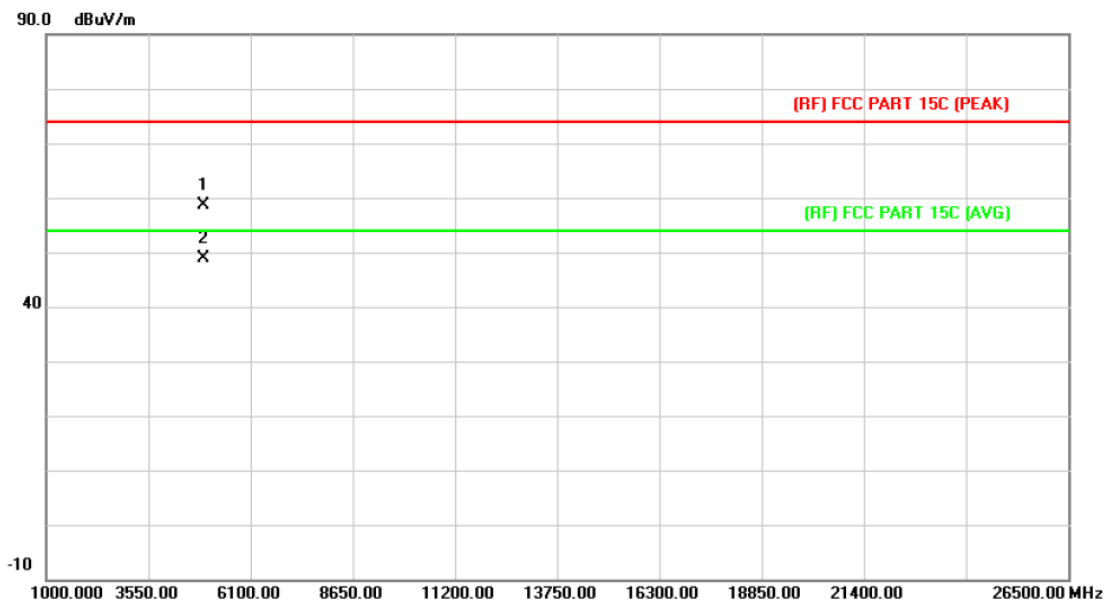
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.437	44.29	13.86	58.15	74.00	-15.85	peak
2	*	4873.697	34.82	13.86	48.68	54.00	-5.32	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

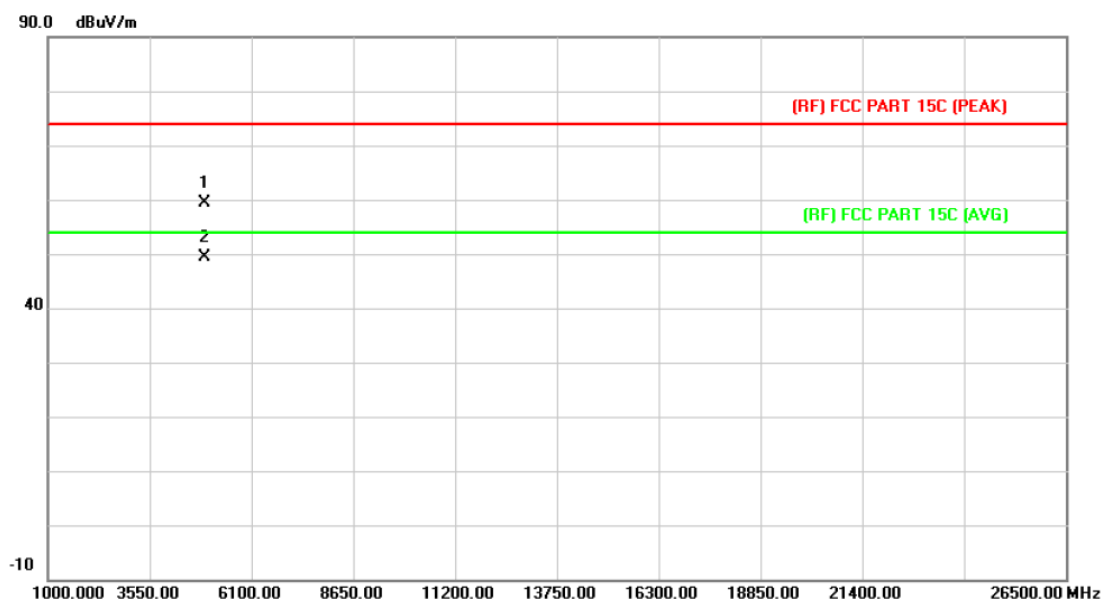


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.532	44.58	14.15	58.73	74.00	-15.27	peak
2	*	4923.653	34.77	14.15	48.92	54.00	-5.08	AVG

Emission Level= Read Level+ Correct Factor



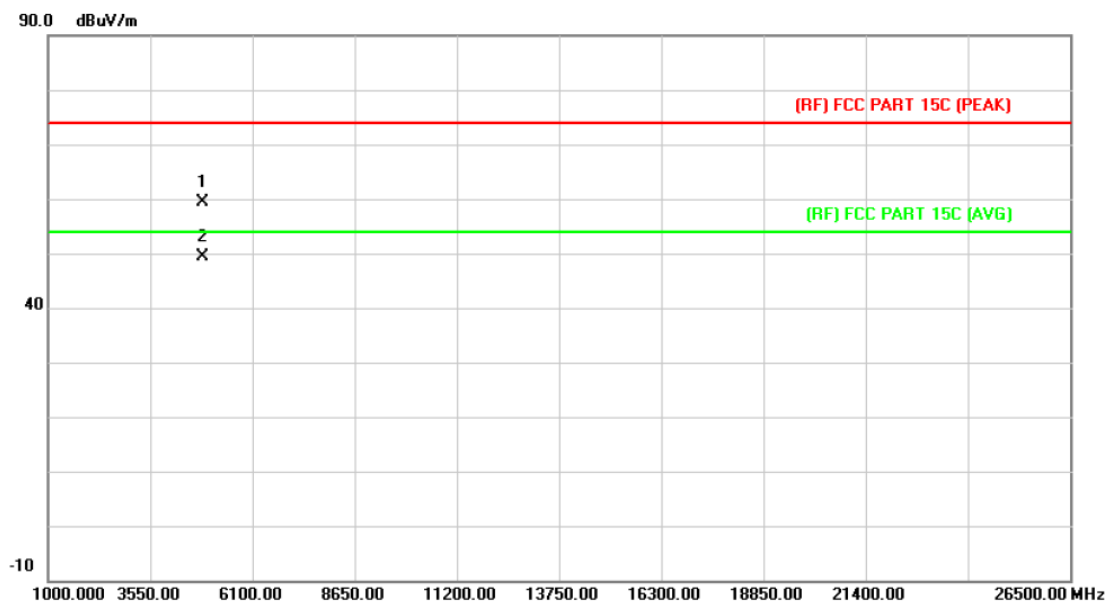
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.395	45.32	14.15	59.47	74.00	-14.53	peak
2	*	4923.472	35.16	14.15	49.31	54.00	-4.69	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

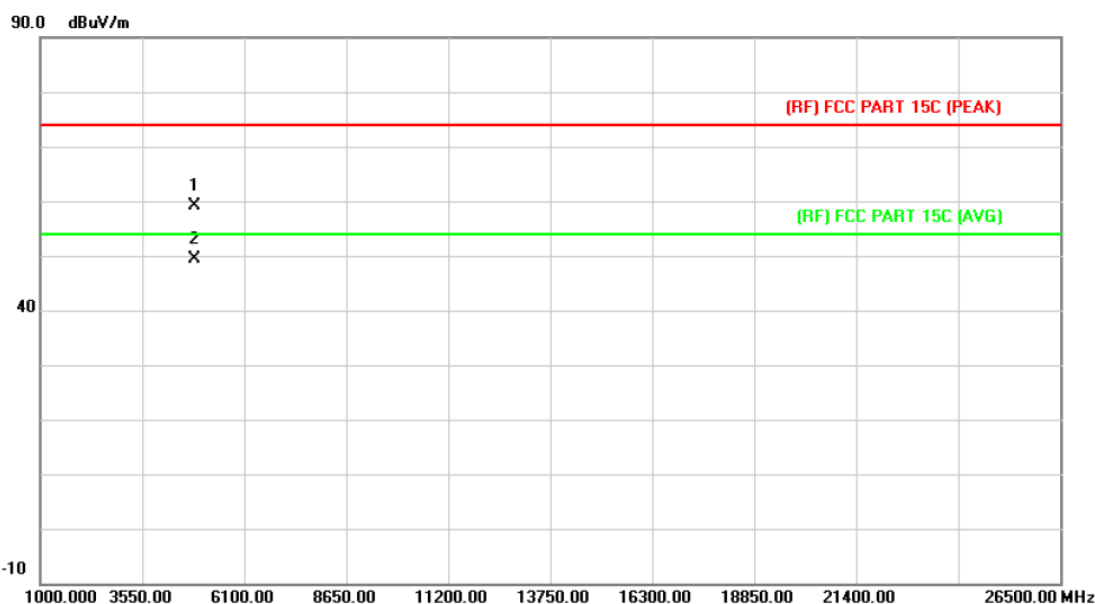


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.754	45.68	13.68	59.36	74.00	-14.64	peak
2	*	4844.217	35.59	13.68	49.27	54.00	-4.73	AVG

Emission Level= Read Level+ Correct Factor



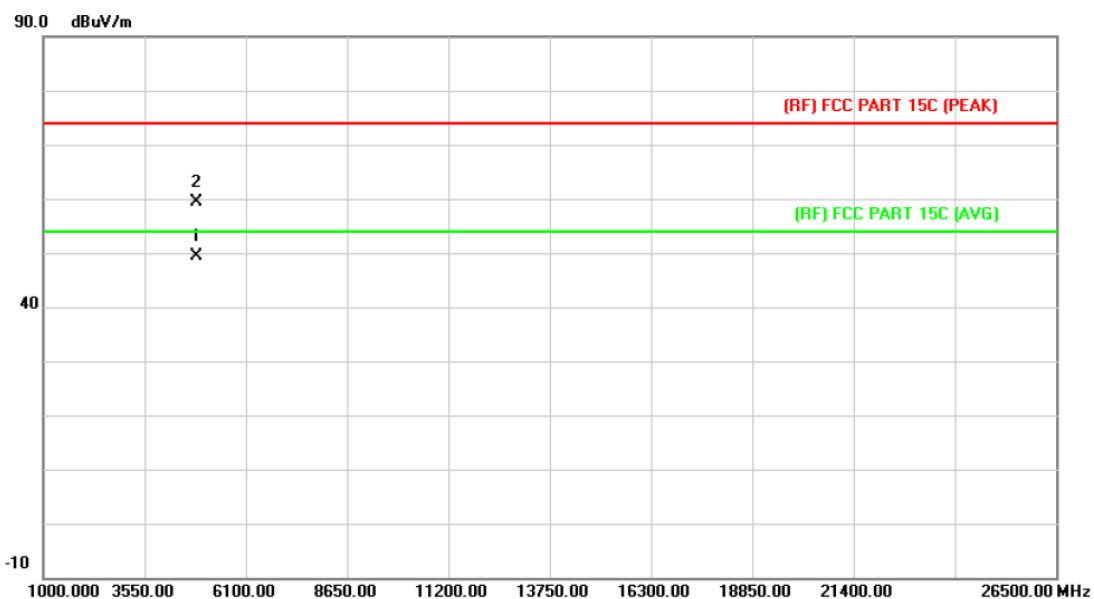
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.215	45.50	13.68	59.18	74.00	-14.82	peak
2	*	4843.872	35.63	13.68	49.31	54.00	-4.69	AVG

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

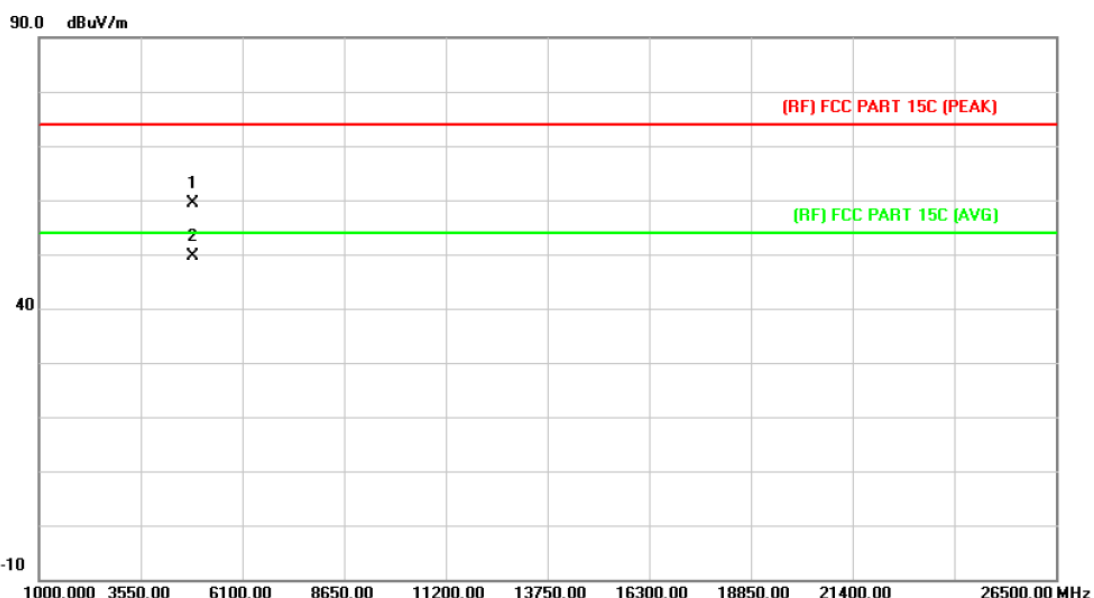


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.956	35.56	13.86	49.42	54.00	-4.58	AVG
2		4874.365	45.51	13.86	59.37	74.00	-14.63	peak

Emission Level= Read Level+ Correct Factor



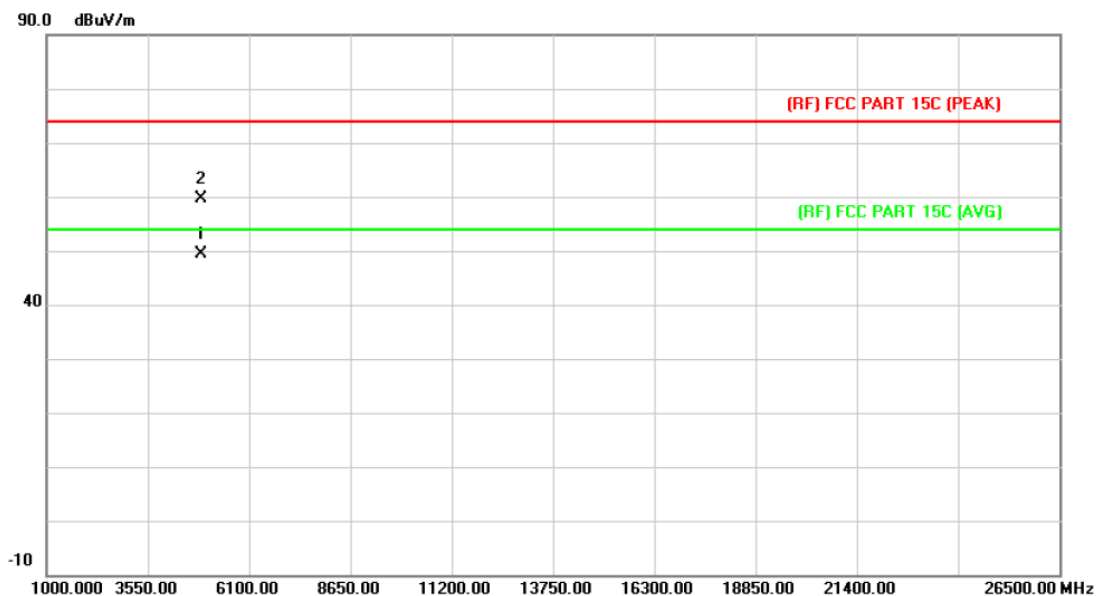
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.574	45.51	13.86	59.37	74.00	-14.63	peak
2	*	4873.871	35.79	13.86	49.65	54.00	-4.35	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

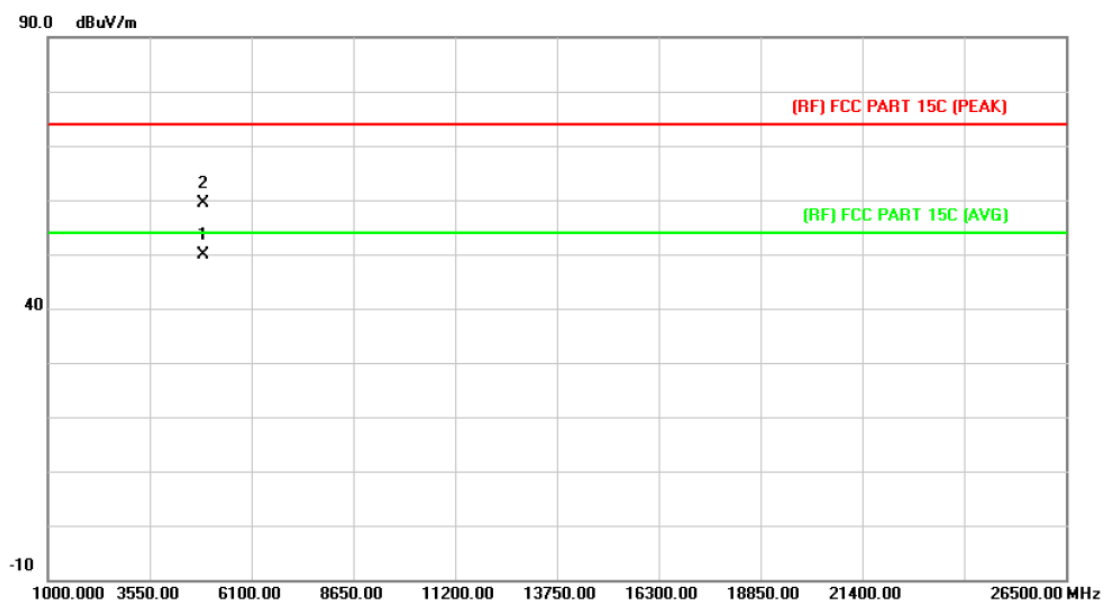


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.547	35.25	14.03	49.28	54.00	-4.72	AVG
2		4903.957	45.69	14.03	59.72	74.00	-14.28	peak

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4904.308	35.73	14.03	49.76	54.00	-4.24	AVG
2		4904.361	45.46	14.03	59.49	74.00	-14.51	peak

Emission Level= Read Level+ Correct Factor

## 6. Restricted Bands Requirement

### 6.1 Test Standard and Limit

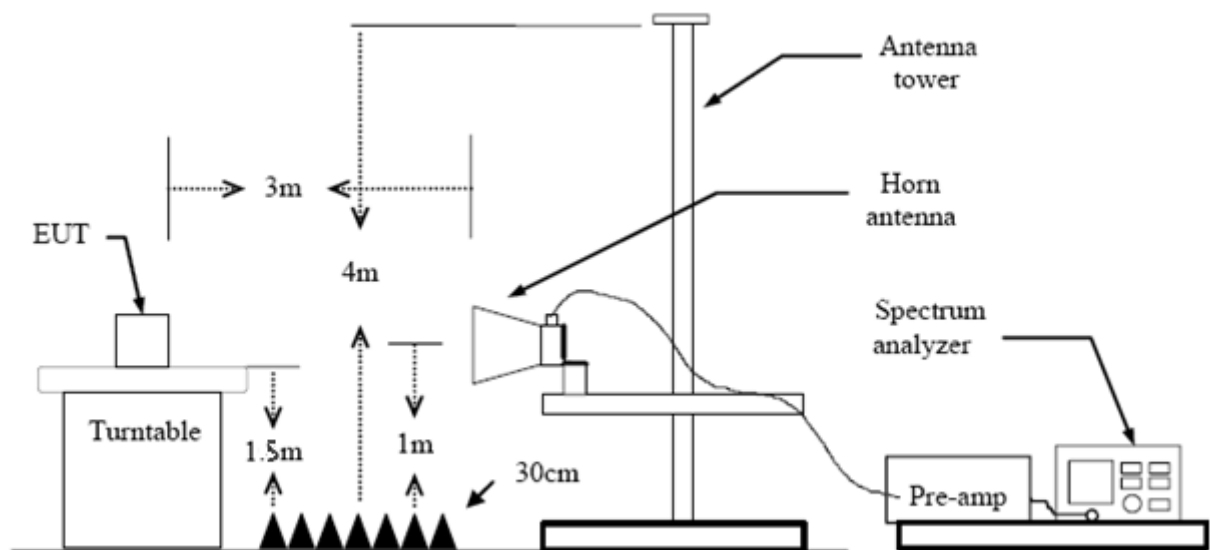
#### 6.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

#### 6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

### 6.2 Test Setup



### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.



- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 6.4 EUT Operating Condition

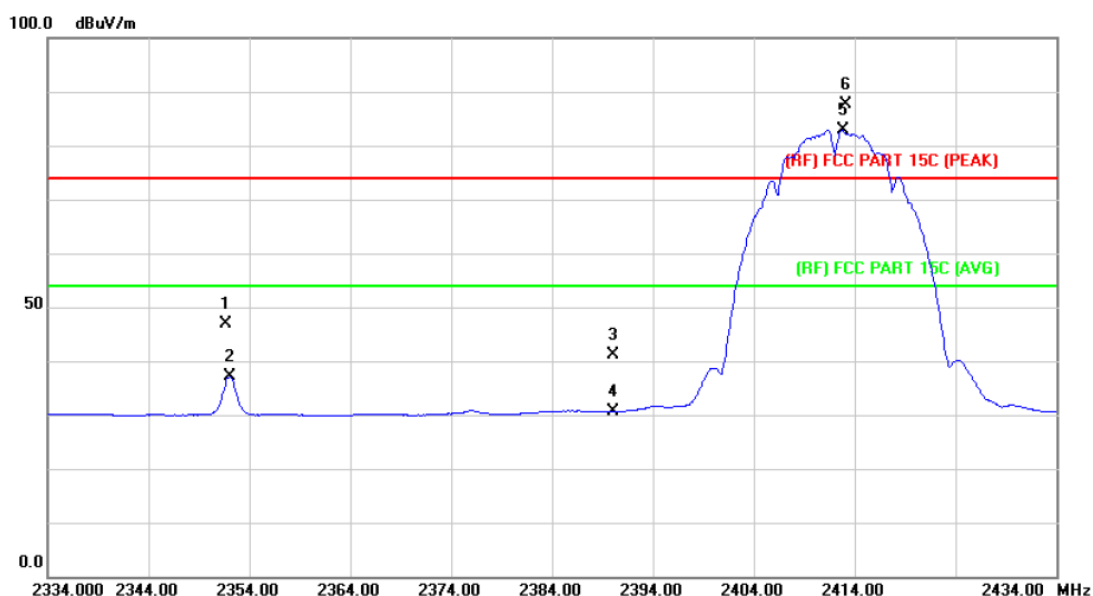
The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.5 Test Data

Please see the next page.

(1) Radiation Test

EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		

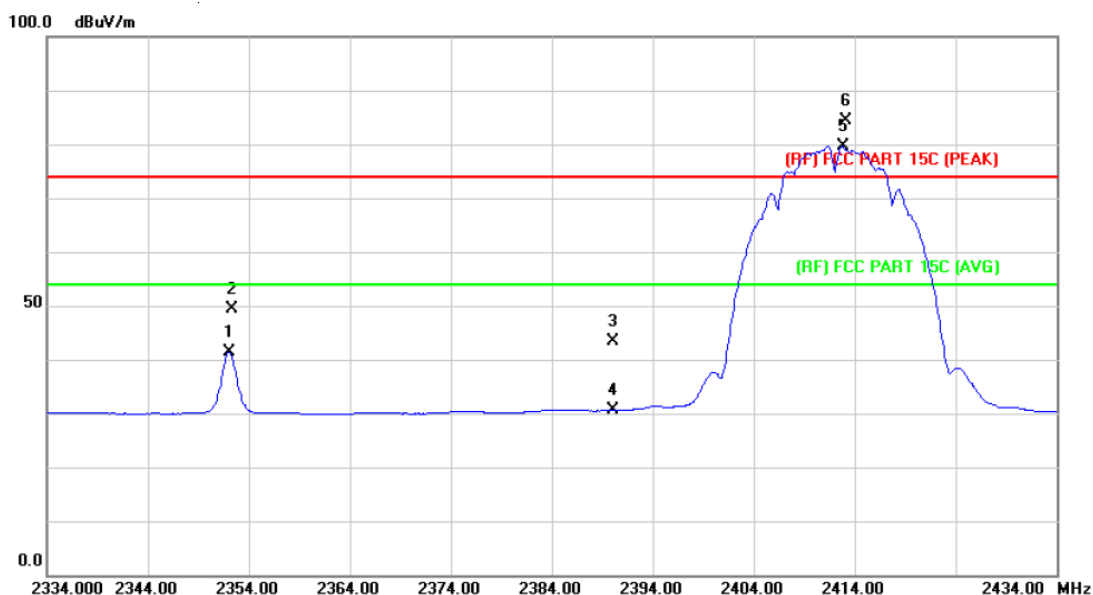


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2351.700	46.30	0.61	46.91	74.00	-27.09	peak
2		2352.000	36.63	0.61	37.24	54.00	-16.76	AVG
3		2390.000	40.47	0.77	41.24	74.00	-32.76	peak
4		2390.000	29.84	0.77	30.61	54.00	-23.39	AVG
5	*	2412.800	82.07	0.86	82.93	Fundamental Frequency		AVG
6	X	2413.100	86.72	0.86	87.58	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor



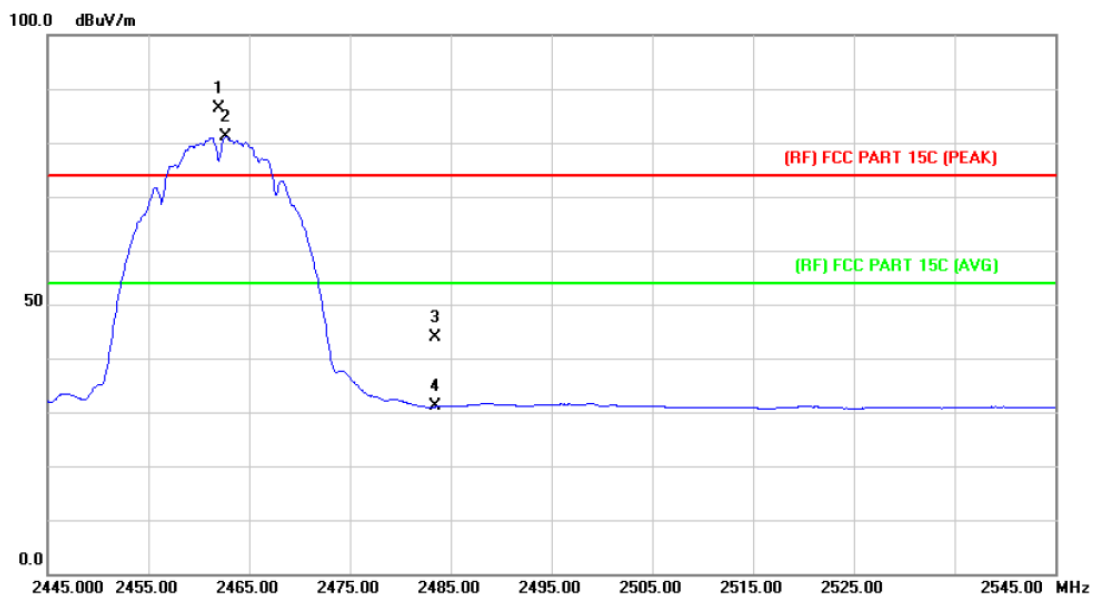
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2352.100	40.77	0.61	41.38	54.00	-12.62	AVG
2		2352.300	48.81	0.61	49.42	74.00	-24.58	peak
3		2390.000	42.51	0.77	43.28	74.00	-30.72	peak
4		2390.000	29.81	0.77	30.58	54.00	-23.42	AVG
5	*	2412.800	78.74	0.86	79.60	Fundamental Frequency		AVG
6	X	2413.100	83.43	0.86	84.29	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		

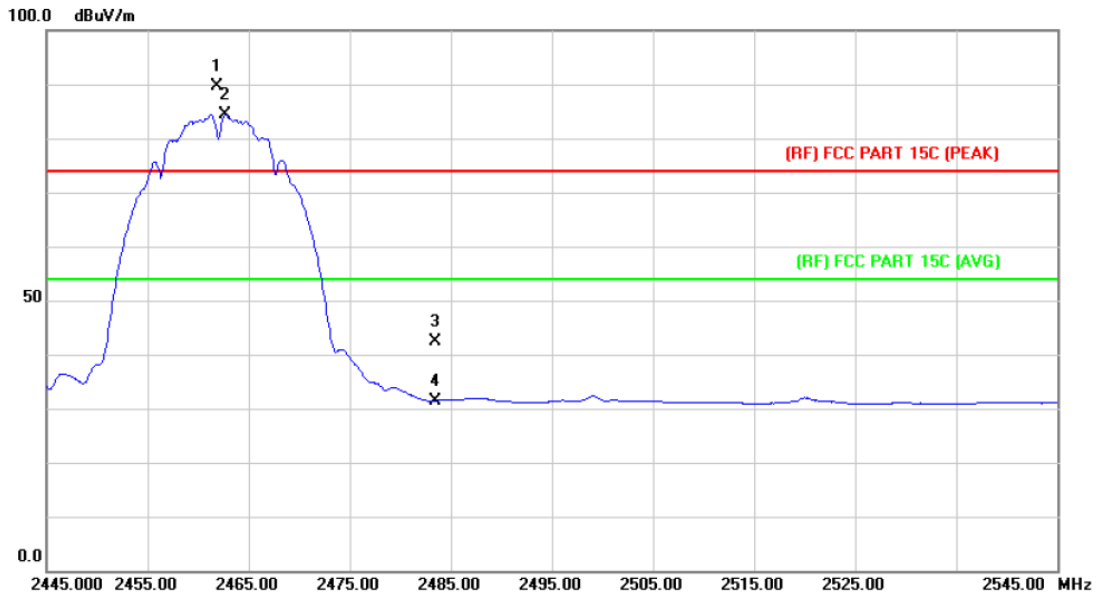


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2462.000	85.32	1.08	86.40	Fundamental Frequency		peak
2	*	2462.700	80.06	1.08	81.14	Fundamental Frequency		AVG
3		2483.500	42.83	1.17	44.00	74.00	-30.00	peak
4		2483.500	29.84	1.17	31.01	54.00	-22.99	AVG

Emission Level= Read Level+ Correct Factor



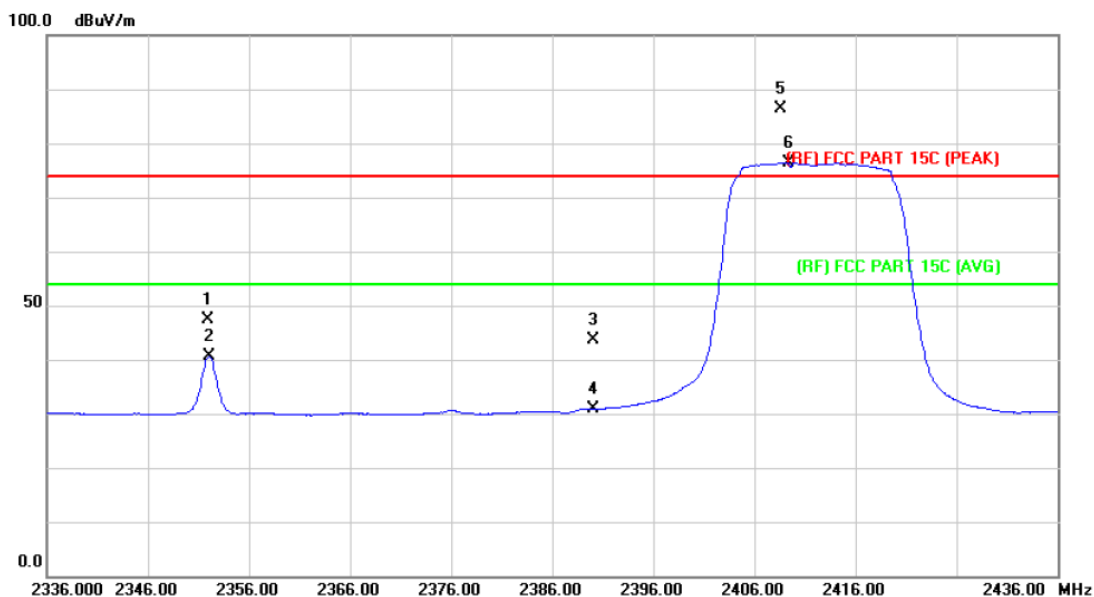
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2461.900	88.51	1.07	89.58	Fundamental Frequency		peak
2	*	2462.700	83.22	1.08	84.30	Fundamental Frequency		AVG
3		2483.500	41.21	1.17	42.38	74.00	-31.62	peak
4		2483.500	30.33	1.17	31.50	54.00	-22.50	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		

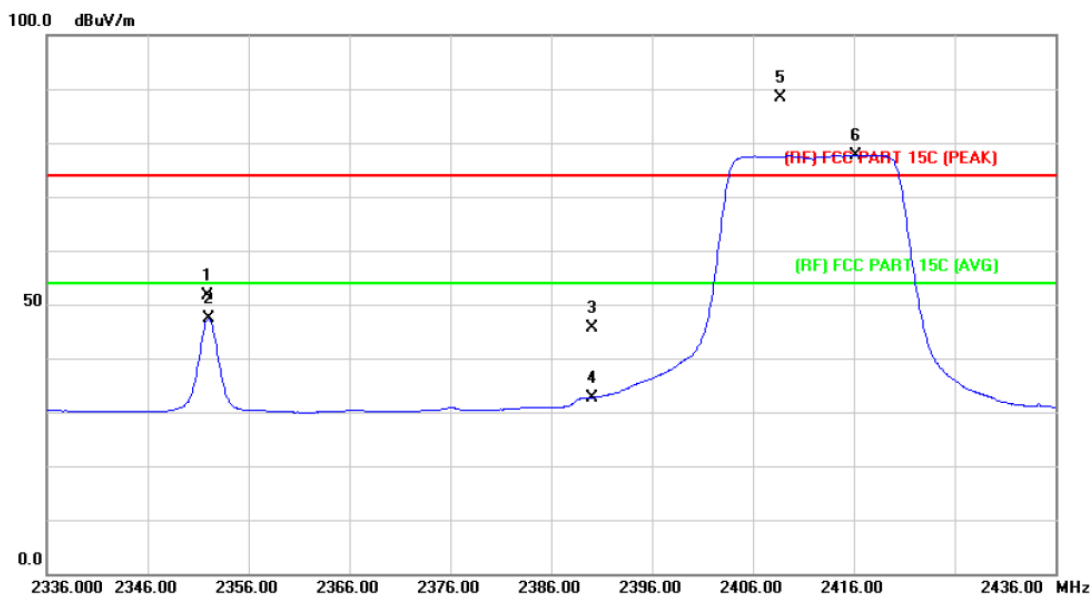


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2351.900	46.67	0.61	47.28	74.00	-26.72	peak
2		2352.000	39.96	0.61	40.57	54.00	-13.43	AVG
3		2390.000	42.83	0.77	43.60	74.00	-30.40	peak
4		2390.000	30.11	0.77	30.88	54.00	-23.12	AVG
5	X	2408.654	85.52	0.85	86.37	Fundamental Frequency		peak
6	*	2409.400	75.65	0.85	76.50	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor



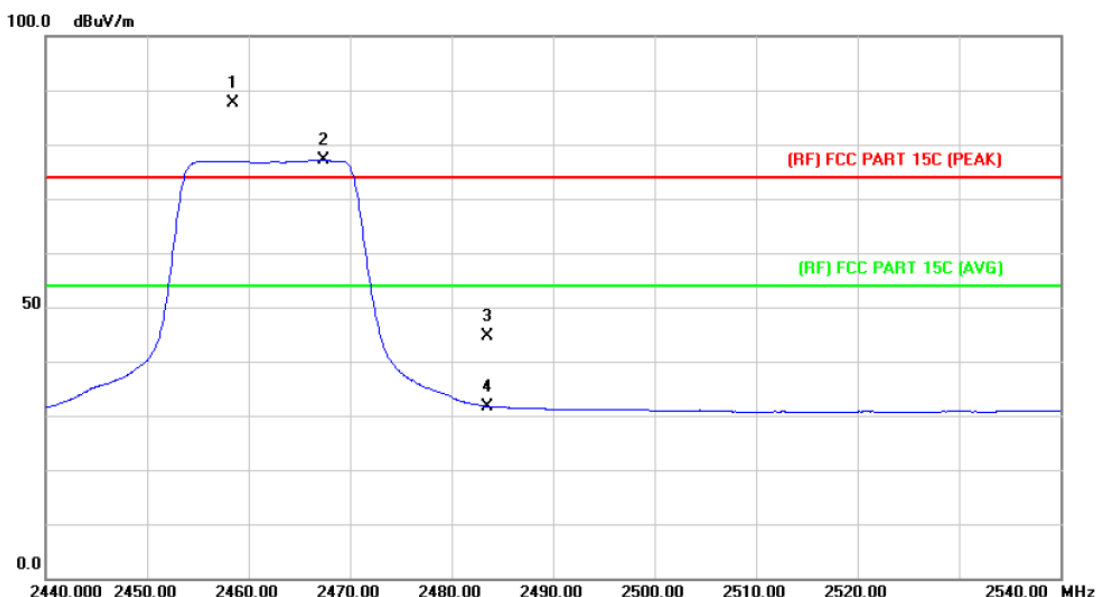
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2351.900	50.91	0.61	51.52	74.00	-22.48	peak
2		2352.000	46.76	0.61	47.37	54.00	-6.63	AVG
3		2390.000	44.78	0.77	45.55	74.00	-28.45	peak
4		2390.000	31.93	0.77	32.70	54.00	-21.30	AVG
5	X	2408.700	87.59	0.85	88.44	Fundamental Frequency		peak
6	*	2416.200	76.84	0.88	77.72	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		

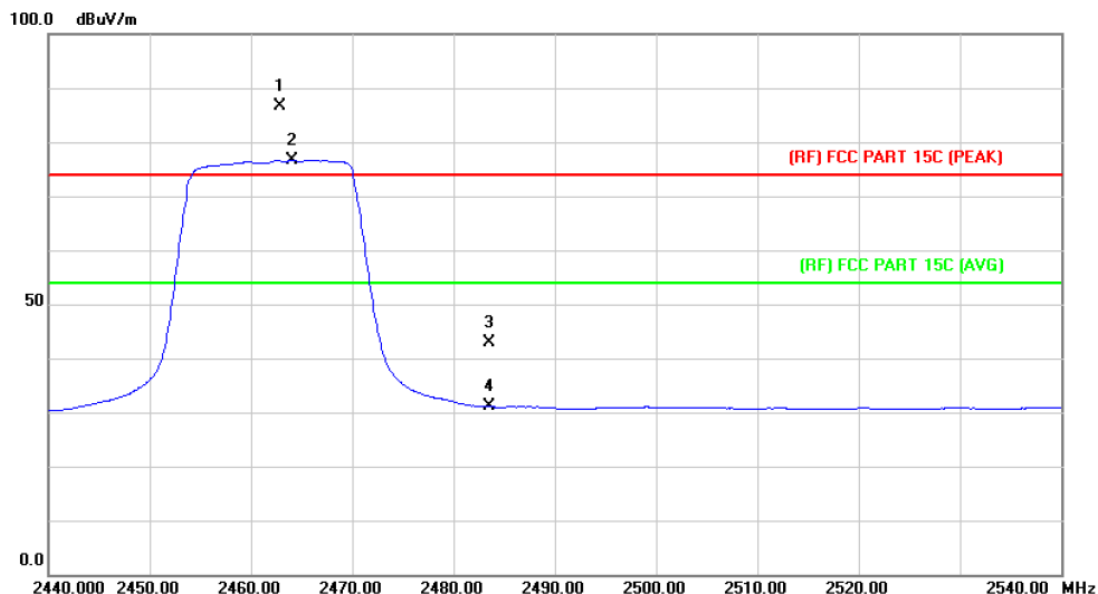


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.500	86.66	1.06	87.72	Fundamental Frequency		peak
2	*	2467.400	75.99	1.10	77.09	Fundamental Frequency		AVG
3		2483.500	43.45	1.17	44.62	74.00	-29.38	peak
4		2483.500	30.55	1.17	31.72	54.00	-22.28	AVG

Emission Level= Read Level+ Correct Factor



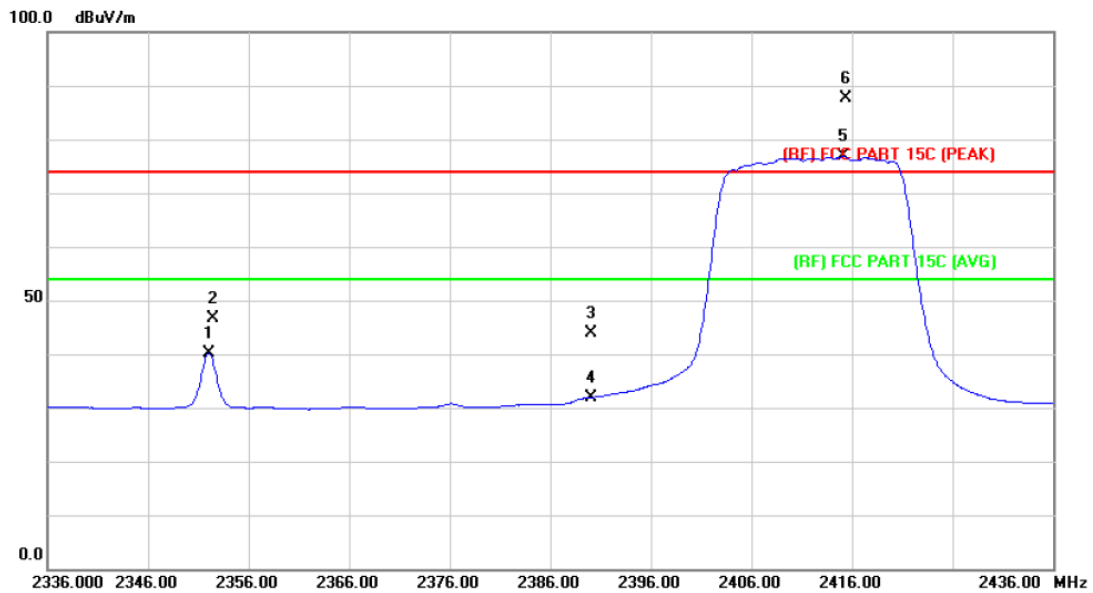
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2462.900	85.46	1.08	86.54	Fundamental Frequency		peak
2	*	2464.000	75.56	1.08	76.64	Fundamental Frequency		AVG
3		2483.500	41.63	1.17	42.80	74.00	-31.20	peak
4		2483.500	29.86	1.17	31.03	54.00	-22.97	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	N/A		

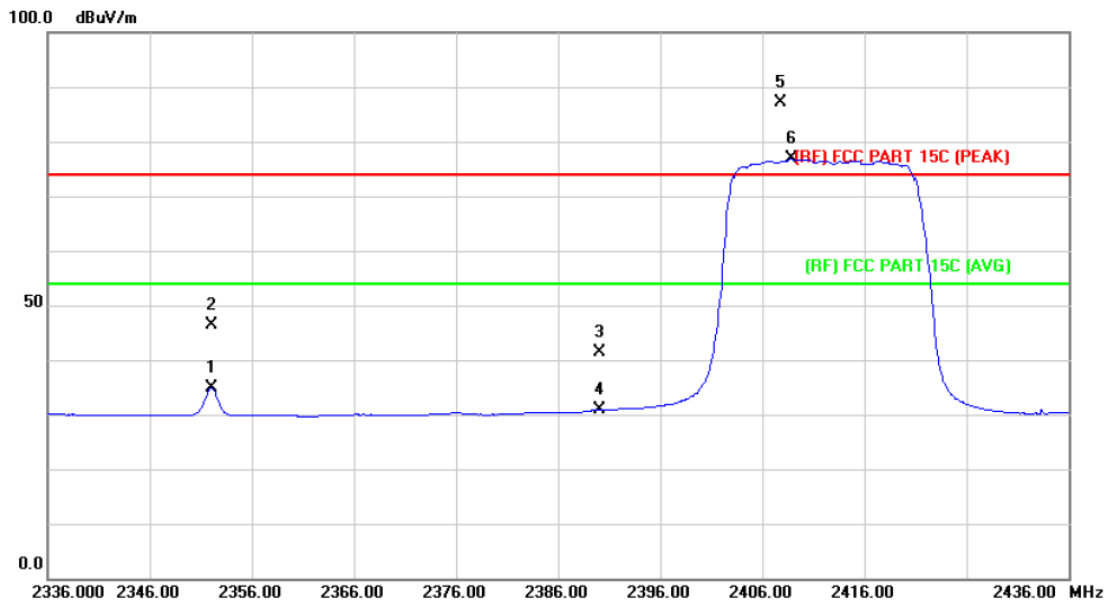


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2352.000	39.55	0.61	40.16	54.00	-13.84	AVG
2		2352.500	45.96	0.61	46.57	74.00	-27.43	peak
3		2390.000	43.04	0.77	43.81	74.00	-30.19	peak
4		2390.000	31.14	0.77	31.91	54.00	-22.09	AVG
5	*	2415.200	75.89	0.88	76.77	Fundamental Frequency		AVG
6	X	2415.400	86.77	0.88	87.65	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor



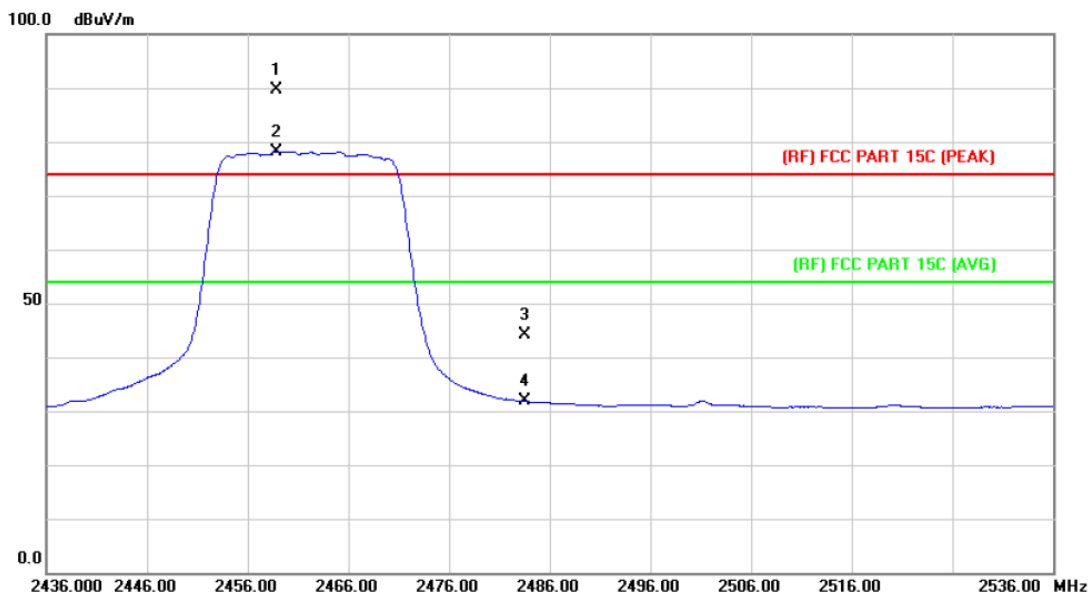
EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2352.000	34.27	0.61	34.88	54.00	-19.12	AVG
2		2352.100	45.85	0.61	46.46	74.00	-27.54	peak
3		2390.000	40.69	0.77	41.46	74.00	-32.54	peak
4		2390.000	30.03	0.77	30.80	54.00	-23.20	AVG
5	X	2407.800	86.27	0.85	87.12	Fundamental Frequency		peak
6	*	2408.800	75.96	0.85	76.81	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		

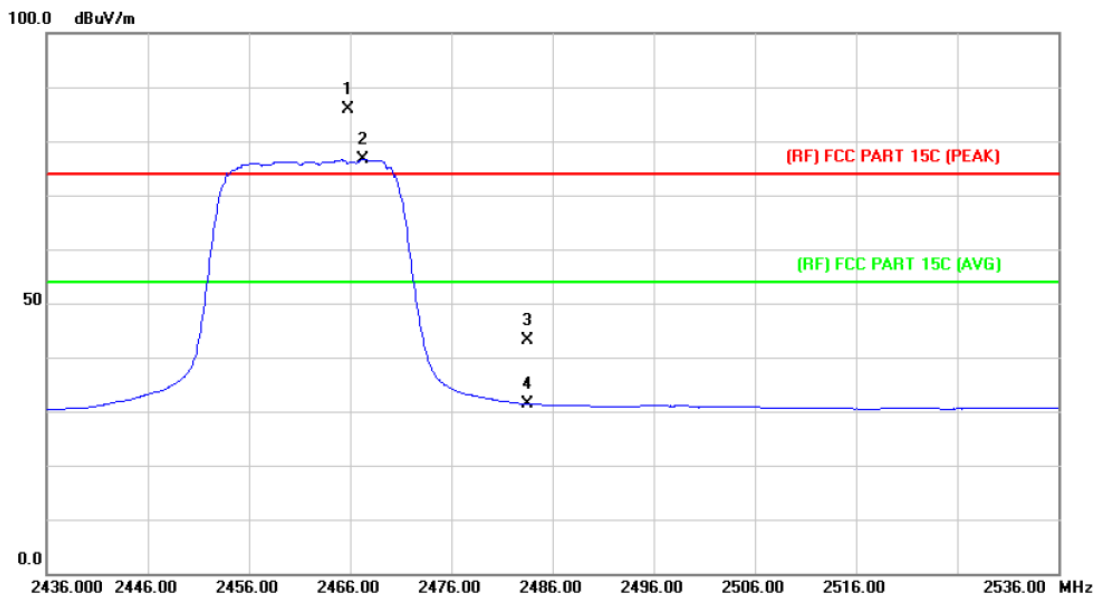


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.800	88.52	1.06	89.58	Fundamental Frequency		peak
2	*	2458.800	77.16	1.06	78.22	Fundamental Frequency		AVG
3		2483.500	42.96	1.17	44.13	74.00	-29.87	peak
4		2483.500	30.61	1.17	31.78	54.00	-22.22	AVG

Emission Level= Read Level+ Correct Factor



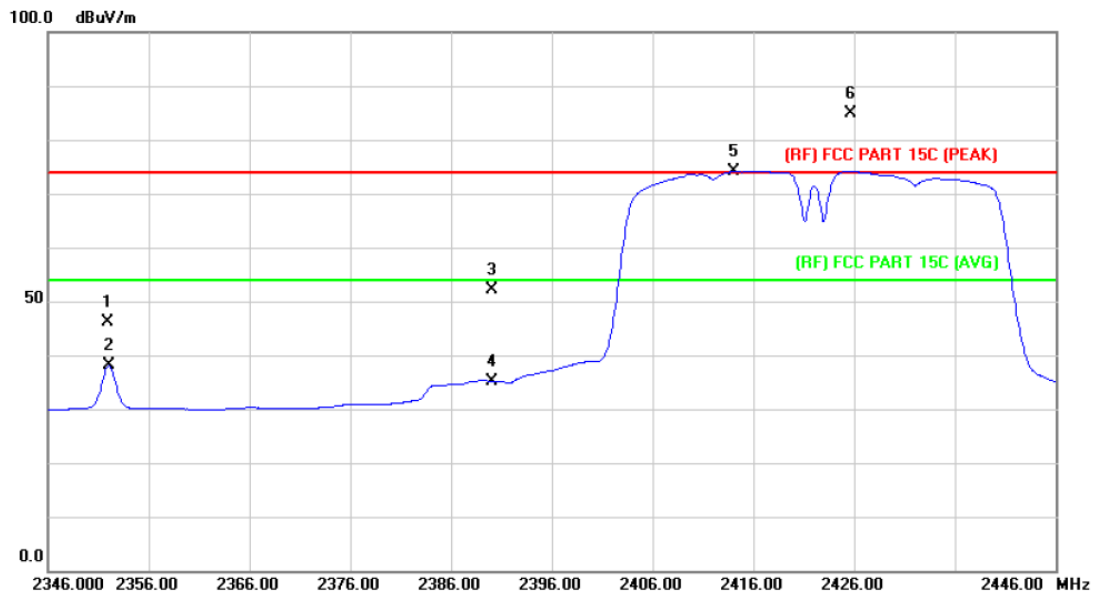
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2465.750	84.89	1.09	85.98	Fundamental Frequency		peak
2	*	2467.300	75.48	1.10	76.58	Fundamental Frequency		AVG
3		2483.500	41.94	1.17	43.11	74.00	-30.89	peak
4		2483.500	30.18	1.17	31.35	54.00	-22.65	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		

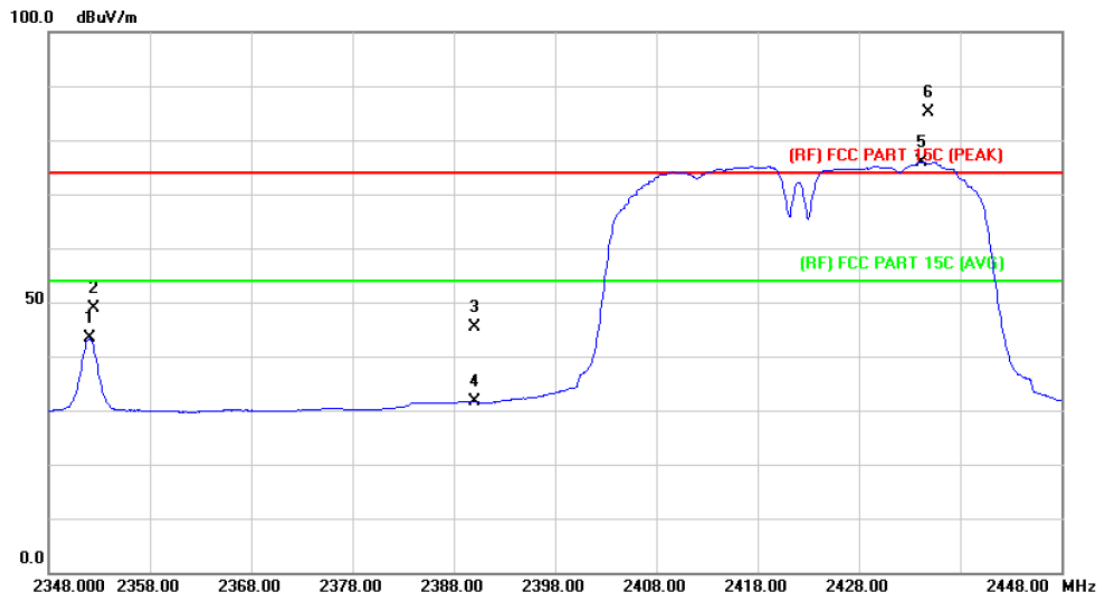


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2351.900	45.51	0.61	46.12	74.00	-27.88	peak
2		2352.000	37.44	0.61	38.05	54.00	-15.95	AVG
3		2390.000	51.24	0.77	52.01	74.00	-21.99	peak
4		2390.000	34.46	0.77	35.23	54.00	-18.77	AVG
5	*	2414.100	73.36	0.87	74.23	Fundamental Frequency		AVG
6	X	2425.700	83.88	0.93	84.81	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor



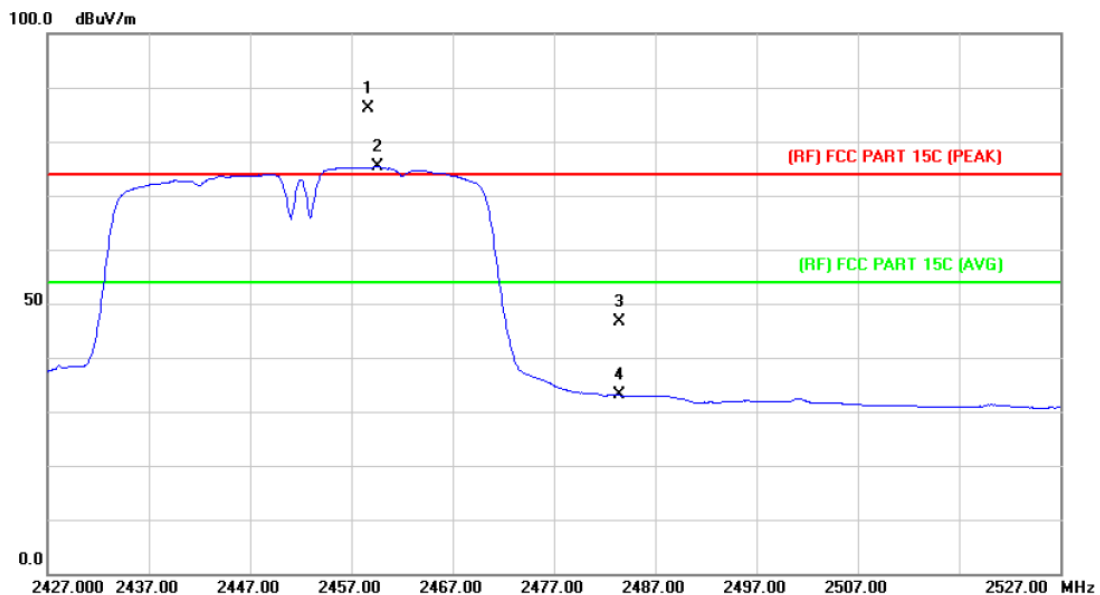
<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2352.000	42.68	0.61	43.29	54.00	-10.71	AVG
2		2352.400	48.23	0.61	48.84	74.00	-25.16	peak
3		2390.000	44.73	0.77	45.50	74.00	-28.50	peak
4		2390.000	30.77	0.77	31.54	54.00	-22.46	AVG
5	X	2434.200	74.89	0.97	75.86	Fundamental Frequency		peak
6	*	2434.800	84.27	0.97	85.24	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		

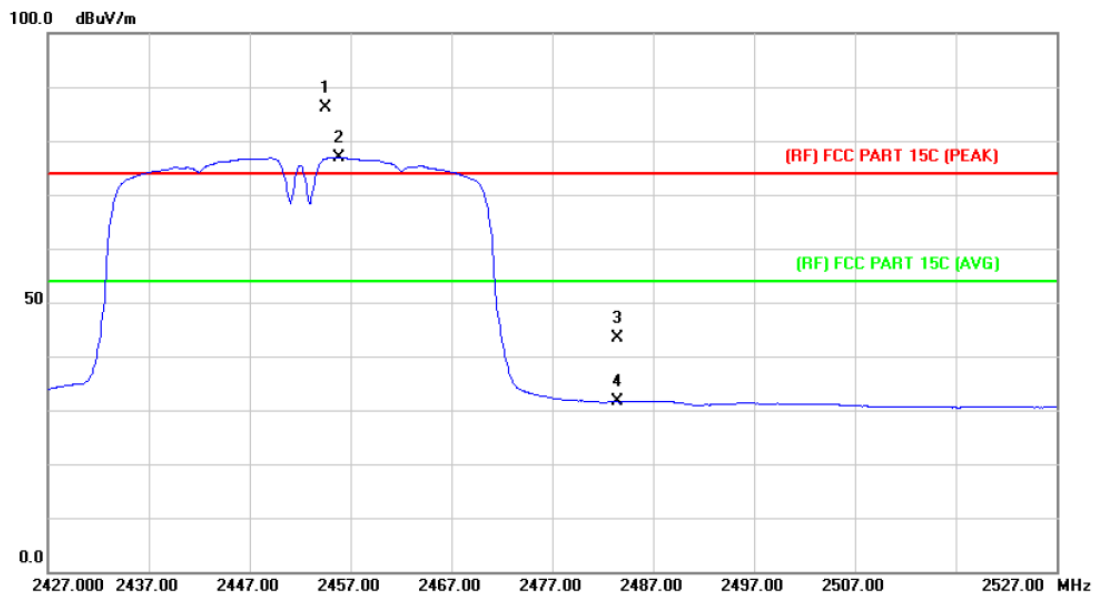


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.700	85.14	1.06	86.20	Fundamental Frequency		peak
2	*	2459.600	74.33	1.06	75.39	Fundamental Frequency		AVG
3		2483.500	45.47	1.17	46.64	74.00	-27.36	peak
4		2483.500	31.85	1.17	33.02	54.00	-20.98	AVG

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	Action camera	<b>Model:</b>	A07
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		

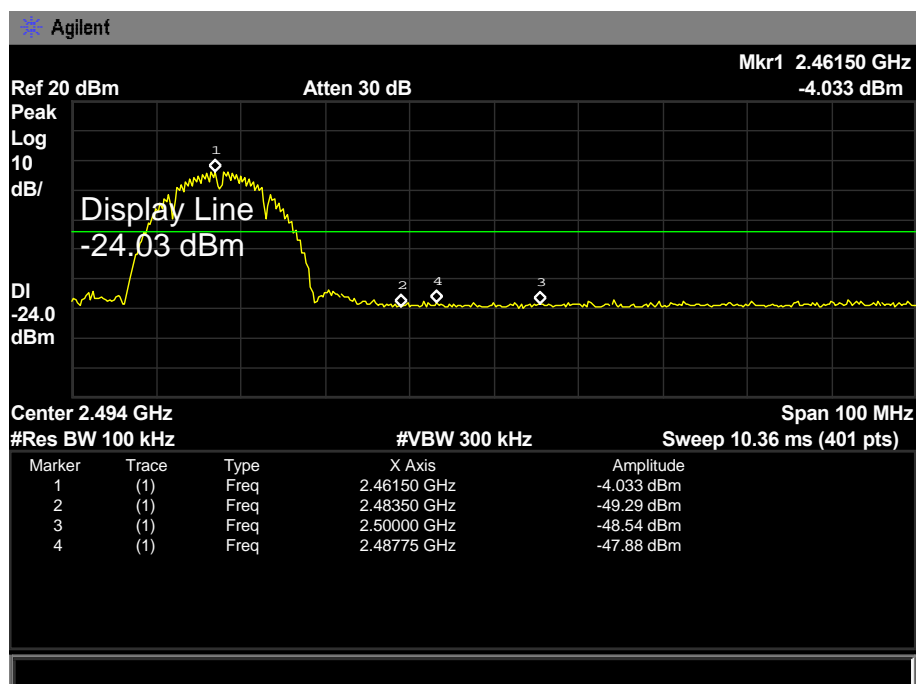
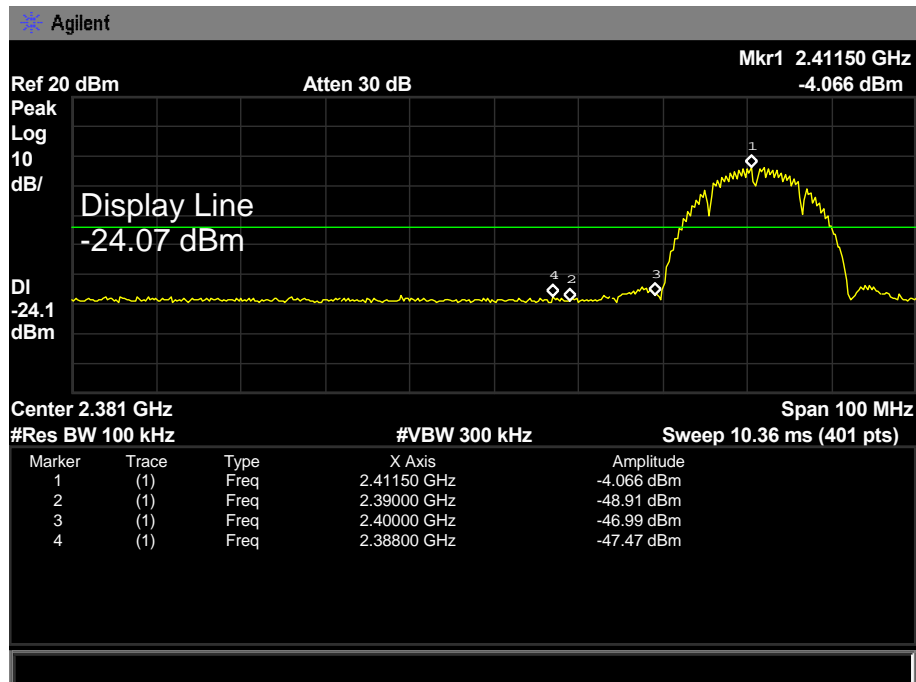


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2454.600	85.08	1.05	86.13	Fundamental Frequency		peak
2	*	2455.800	75.83	1.05	76.88	Fundamental Frequency		AVG
3		2483.500	42.25	1.17	43.42	74.00	-30.58	peak
4		2483.500	30.36	1.17	31.53	54.00	-22.47	AVG

Emission Level= Read Level+ Correct Factor

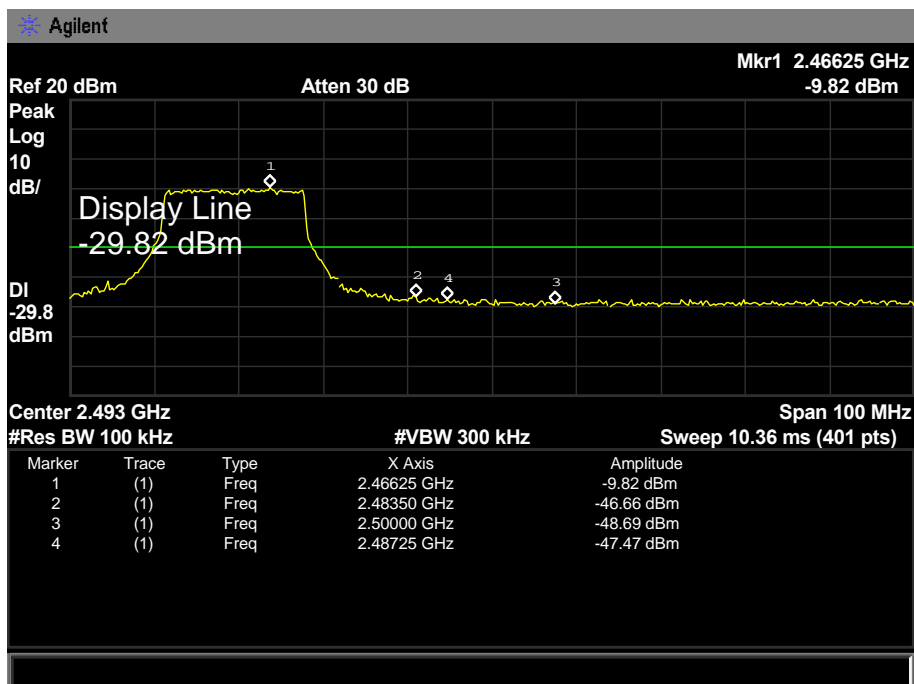
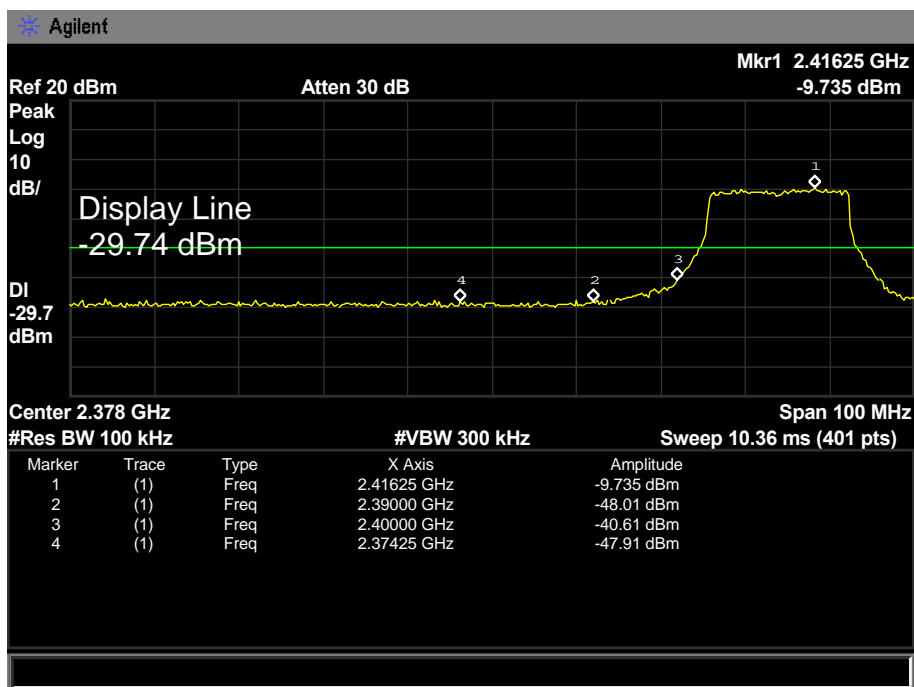
## (2) Conducted Test

EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		

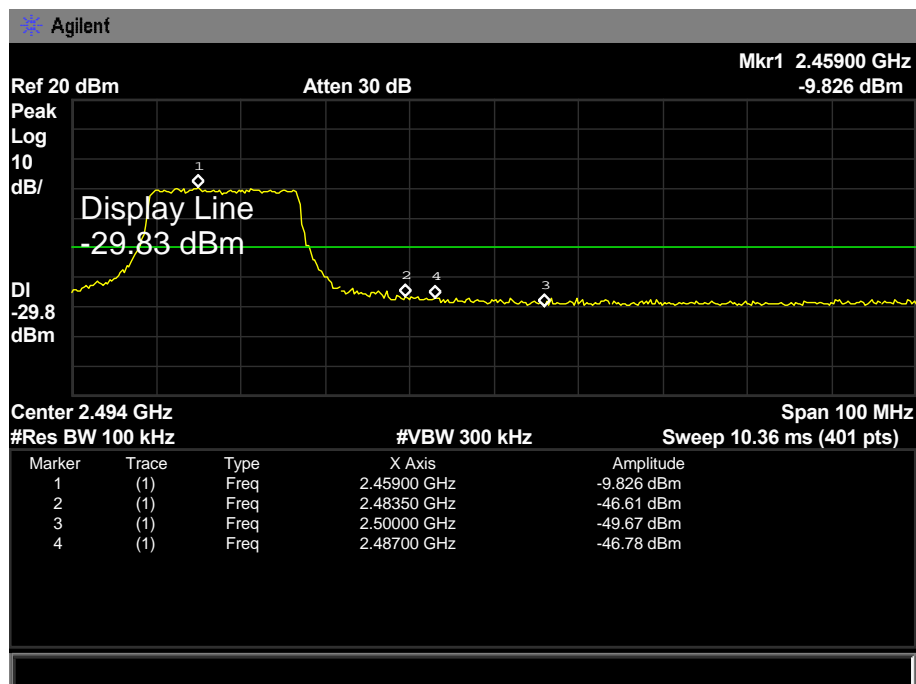
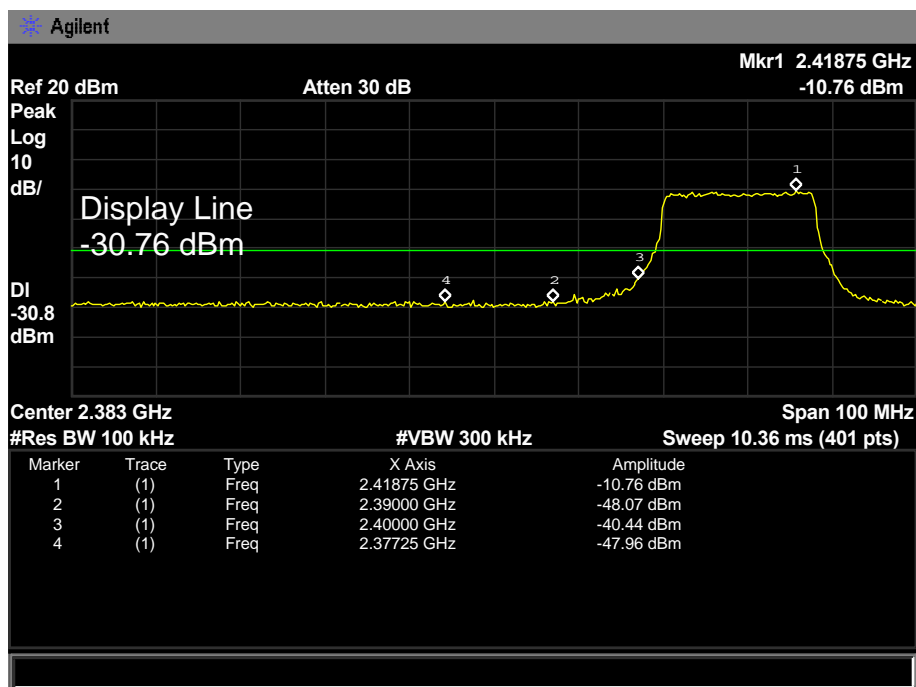




EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		

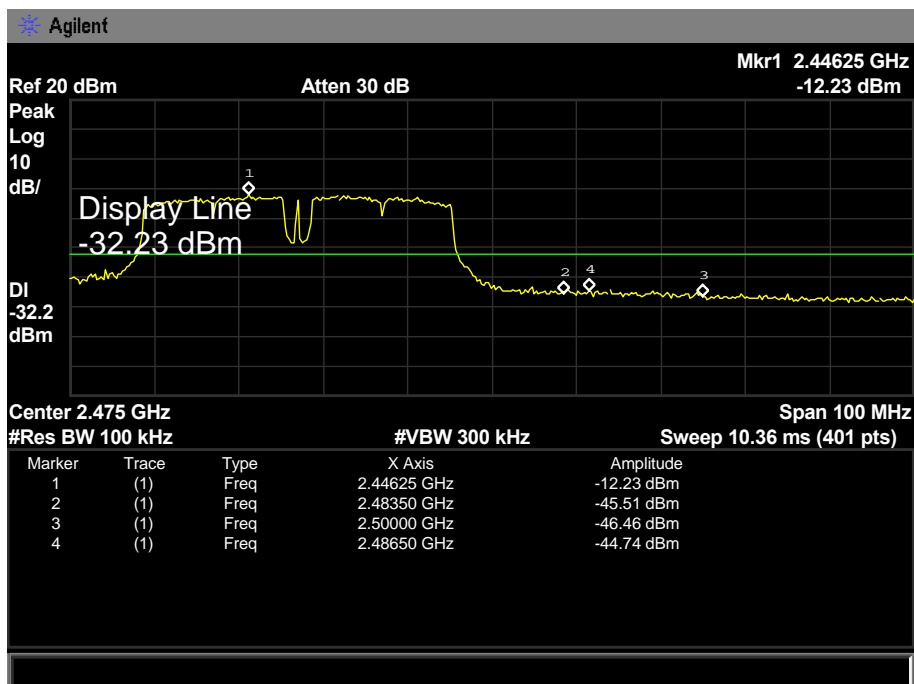
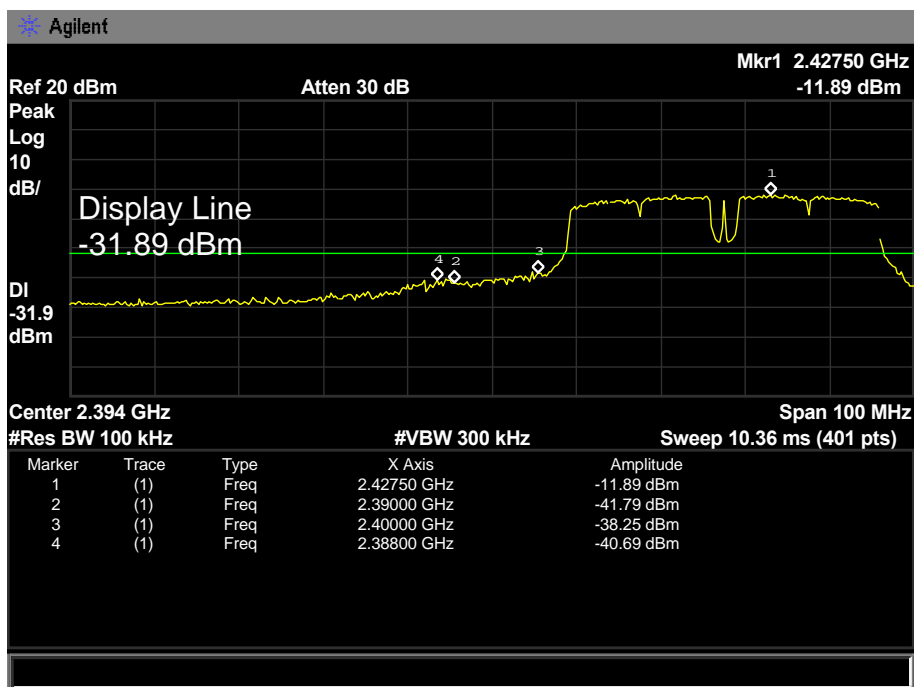


EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programmed in continuously transmitting mode		





EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



## 7. Bandwidth Test

### 7.1 Test Standard and Limit

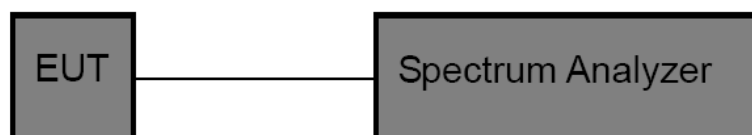
#### 7.1.1 Test Standard

FCC Part 15.247 (a)(2)

#### 7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS 247		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\geq 500$ KHz (6dB bandwidth)	2400~2483.5

### 7.2 Test Setup



### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst -case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

### 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.



## 7.5 Test Data

EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.093	15.0015	>=0.5
2437	9.956	14.9805	
2462	10.092	15.3303	

802.11B Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log 10 dB/

Center 2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

15.0015 MHz

Transmit Freq Error

42.236 kHz

x dB Bandwidth

10.093 MHz

Occ BW % Pwr

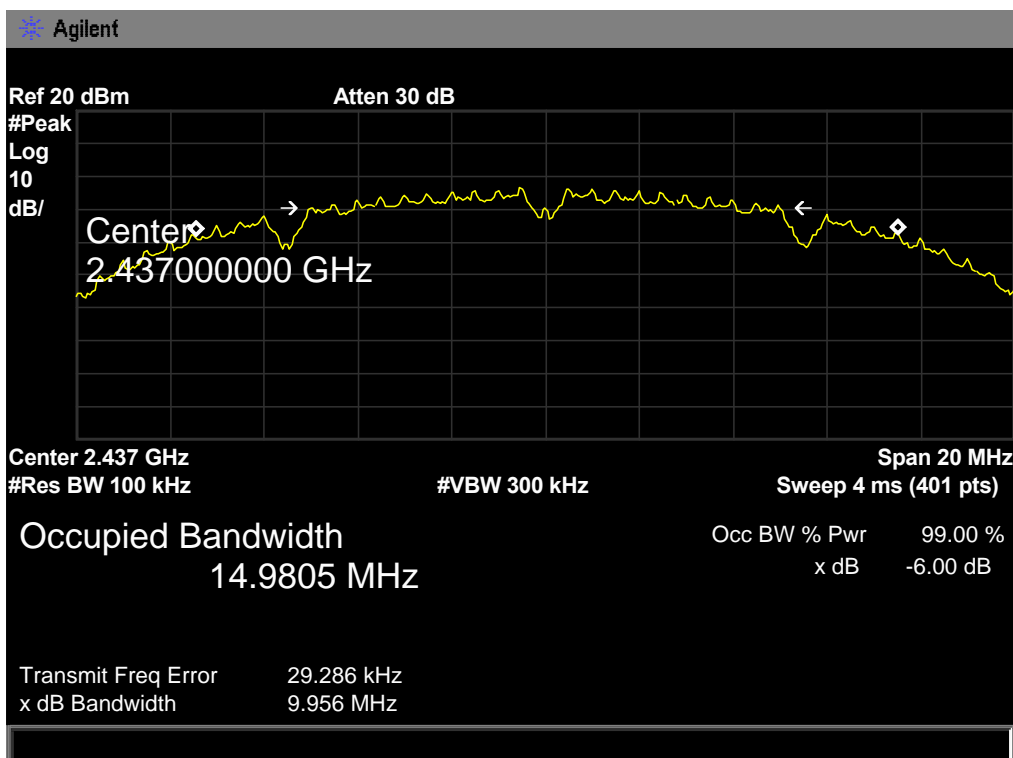
99.00 %

x dB

-6.00 dB

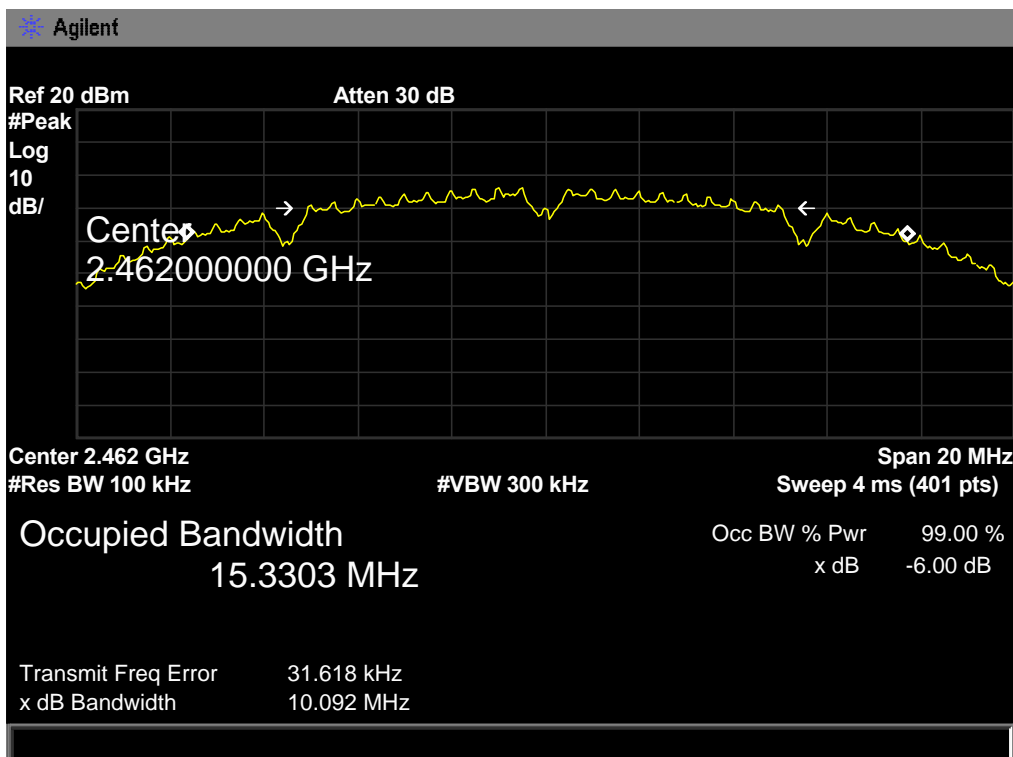
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz





EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.588	16.4390	>=0.5
2437	16.535	16.4249	
2462	16.568	16.4418	

802.11G Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Center

2.41200000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

16.4390 MHz

Transmit Freq Error

-11.672 kHz

x dB Bandwidth

16.588 MHz

Occ BW % Pwr

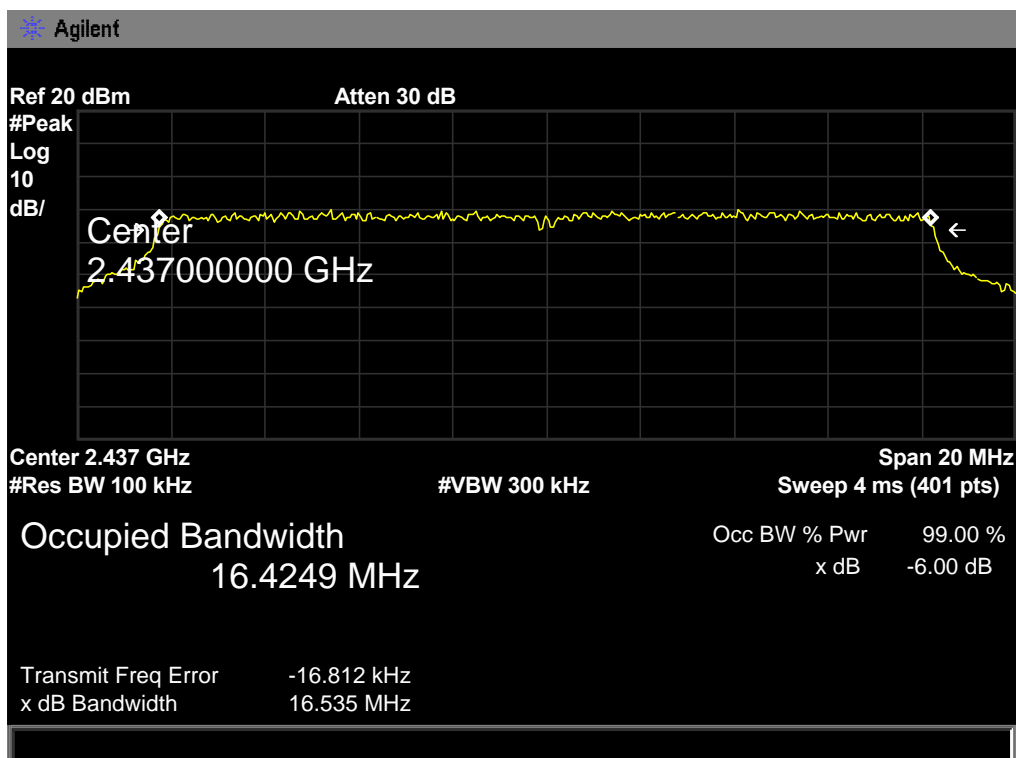
99.00 %

x dB

-6.00 dB

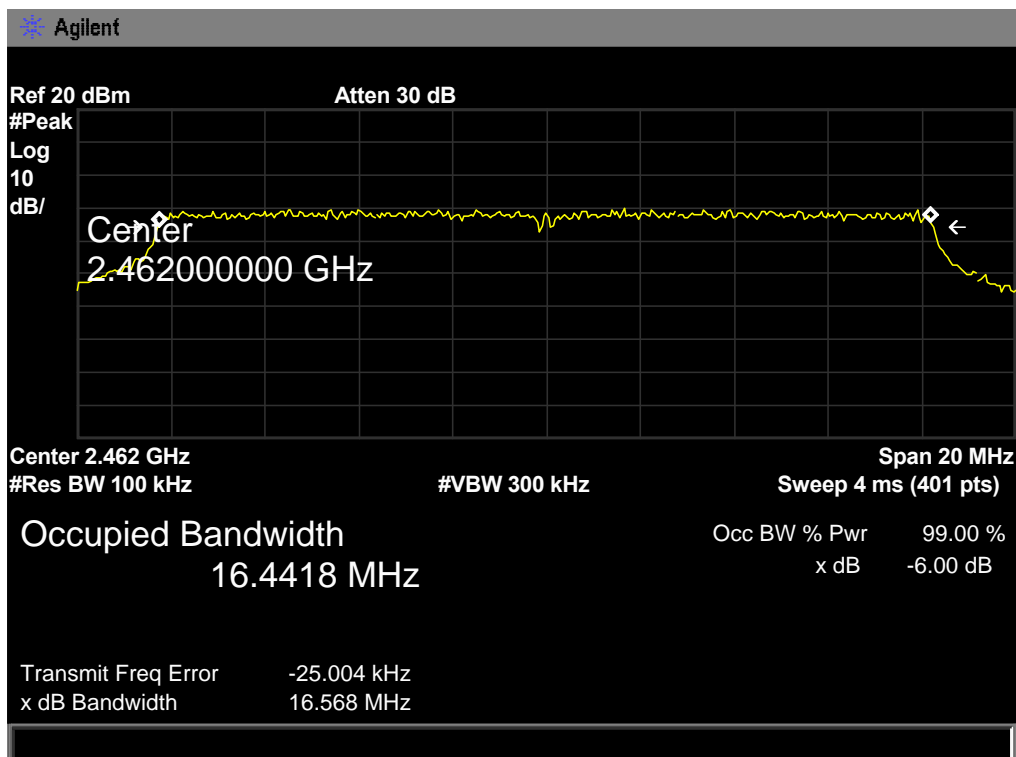
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz





EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.834	17.6333	>=0.5
2437	17.803	17.6346	
2462	17.785	17.6373	

802.11N(HT20) Mode

2412 MHz

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10

dB/

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

17.6333 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

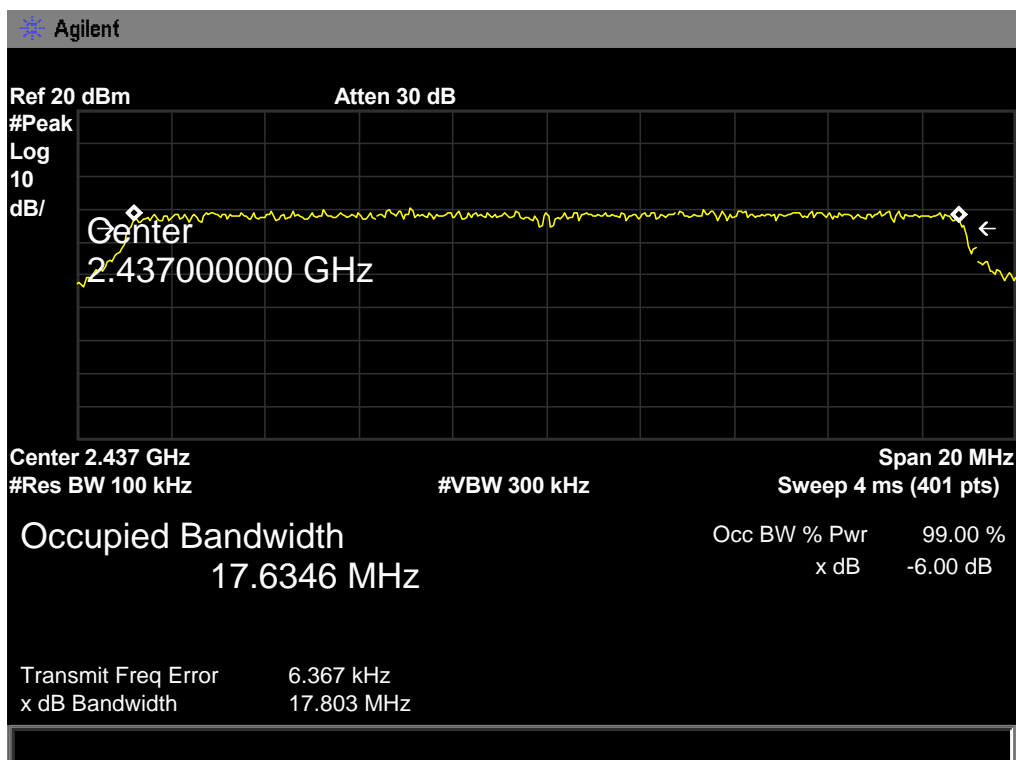
5.092 kHz

x dB Bandwidth

17.834 MHz

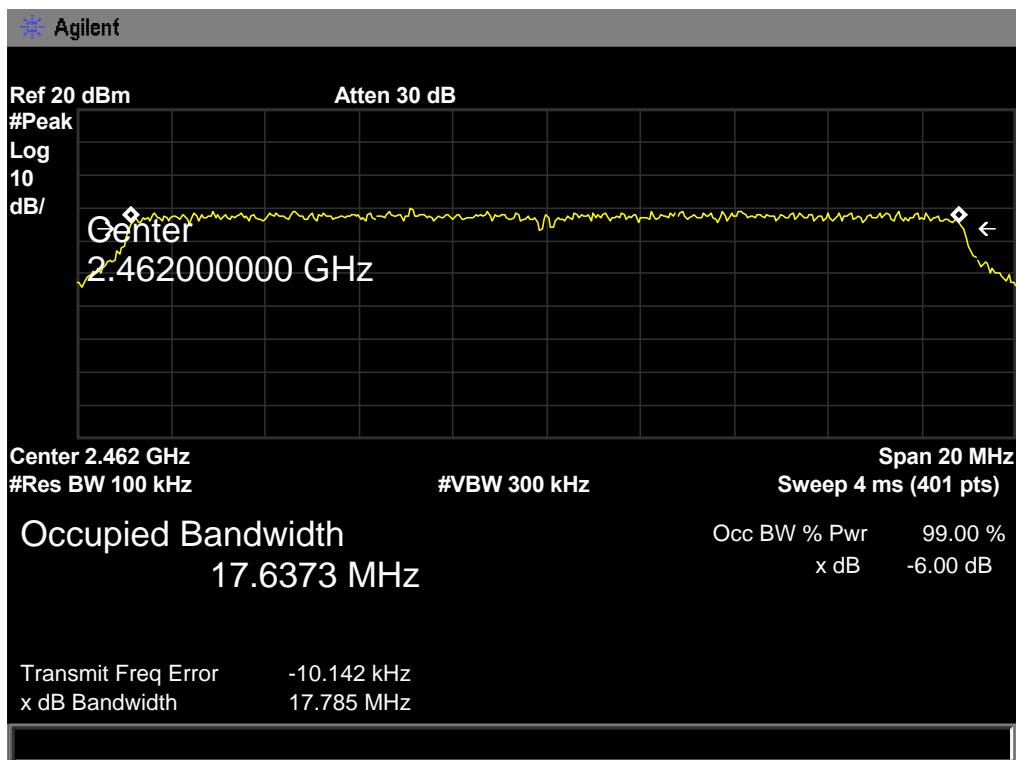
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz





EUT:	Action camera	Model:	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	36.432	35.9333	>=0.5
2437	36.375	35.9775	
2462	36.423	35.9620	
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

#Peak

Log

10 dB/

Span

40.00000000 MHz

Center 2.422 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 4.144 ms (401 pts)

Span 40 MHz

Occupied Bandwidth

35.9333 MHz

Occ BW % Pwr 99.00 %

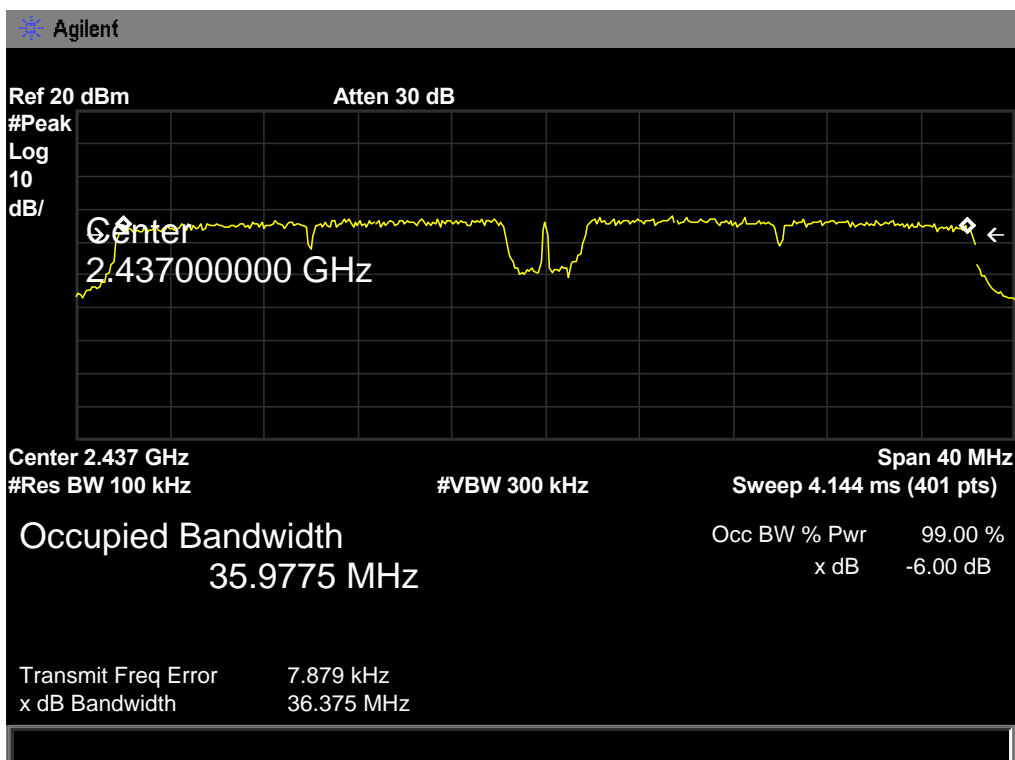
x dB -6.00 dB

Transmit Freq Error 33.325 kHz

x dB Bandwidth 36.432 MHz

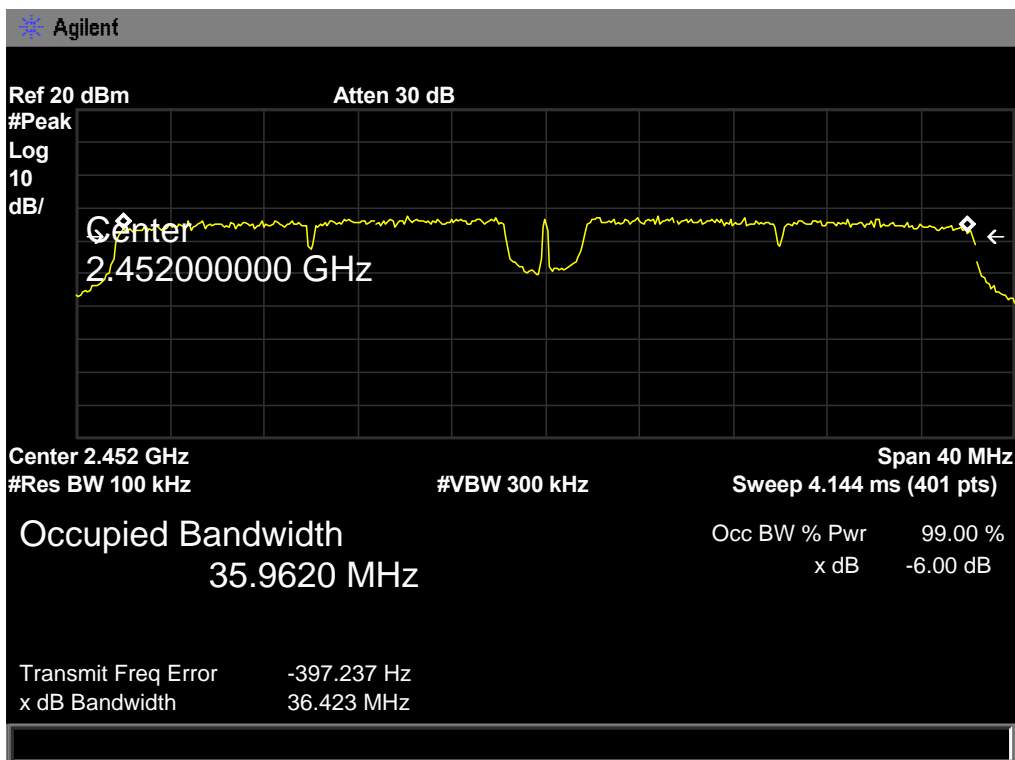
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz





## 8. Peak Output Power Test

### 8.1 Test Standard and Limit

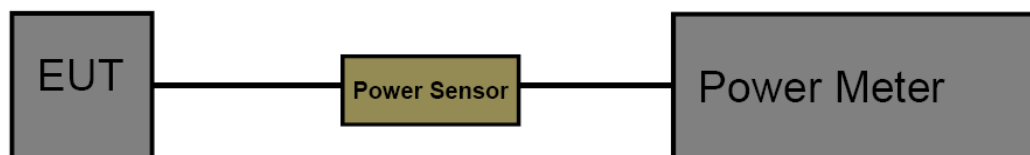
#### 8.1.1 Test Standard

FCC Part 15.247 (b)

#### 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS 247		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

### 8.2 Test Setup



### 8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

### 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

## 8.5 Test Data

EUT:	Action camera	Model Name :	A07
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 12V		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.08	30
	2437	9.13	
	2462	9.27	
802.11g	2412	9.04	
	2437	9.09	
	2462	9.06	
802.11n (HT20)	2412	8.51	
	2437	8.77	
	2462	8.85	
802.11n (HT40)	2422	9.00	
	2437	8.97	
	2452	9.08	
Result: PASS			



## 9. Power Spectral Density Test

### 9.1 Test Standard and Limit

#### 9.1.1 Test Standard

FCC Part 15.247 (e)

#### 9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

### 9.2 Test Setup



### 9.3 Test Procedure

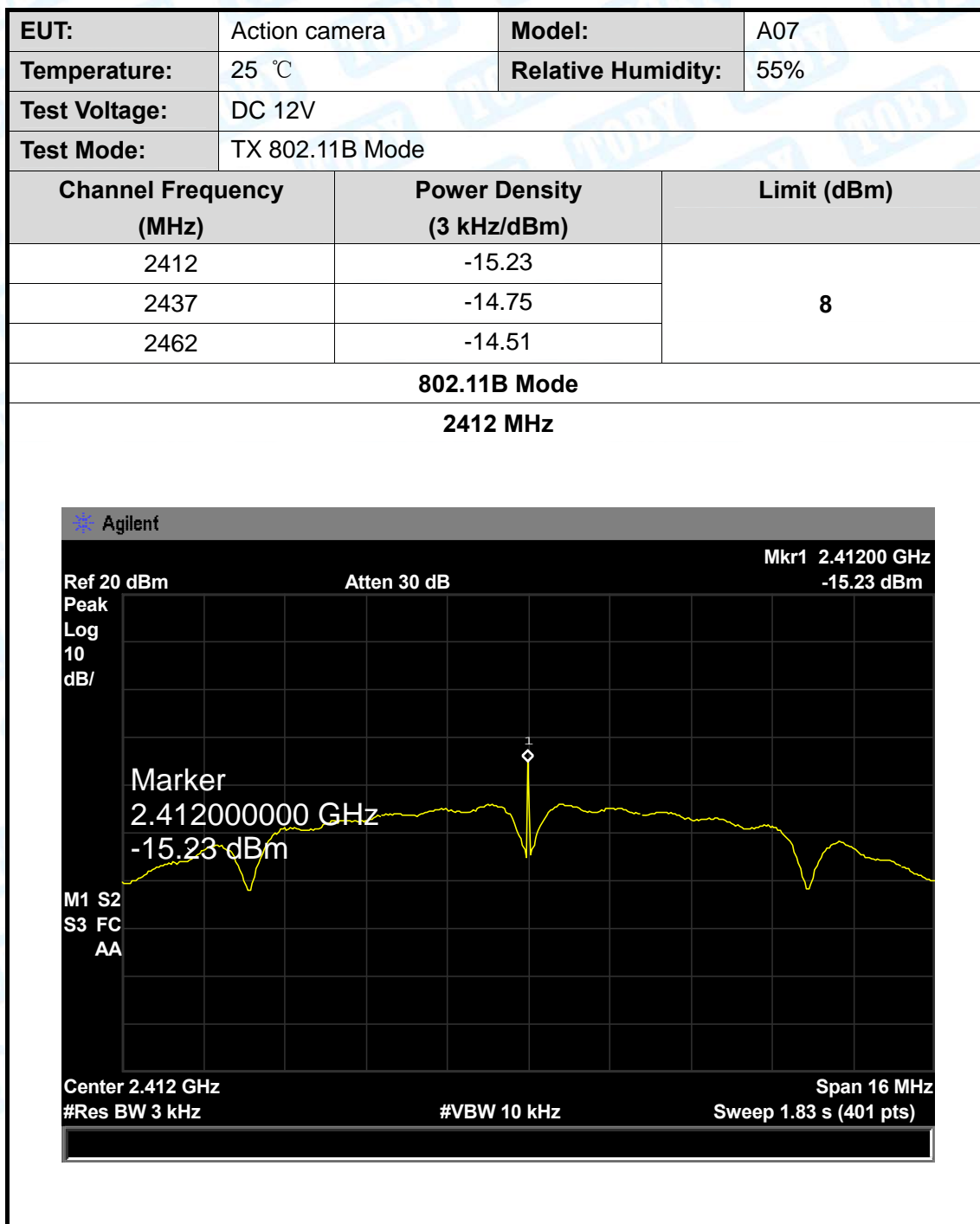
The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

### 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

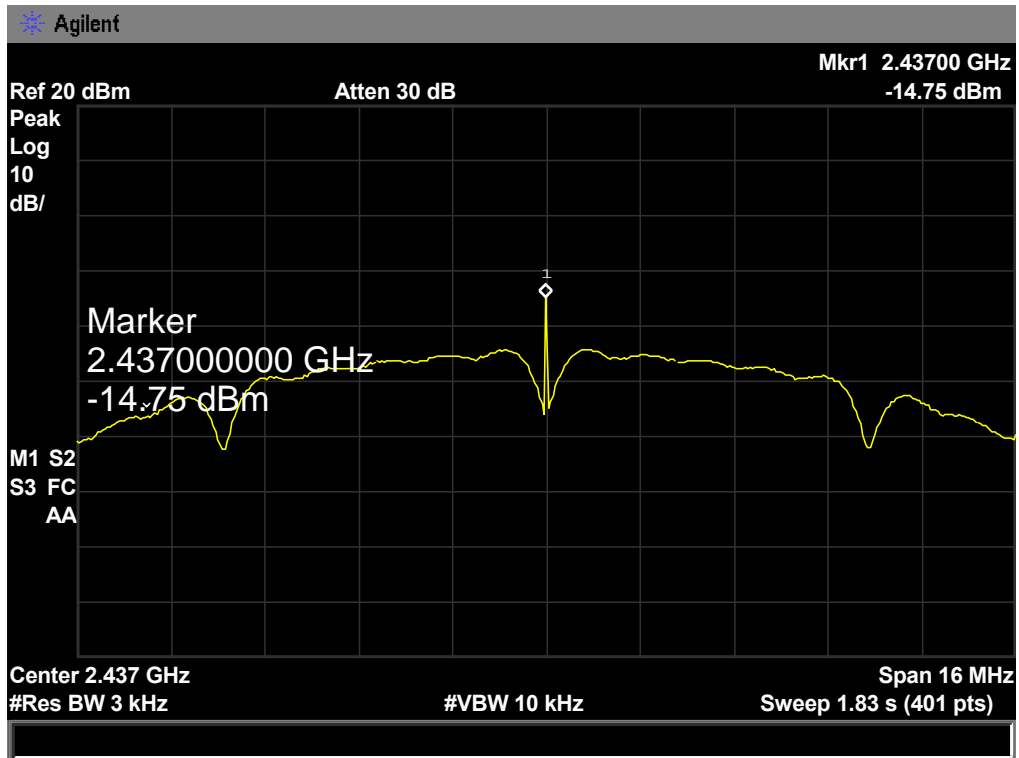
## 9.5 Test Data





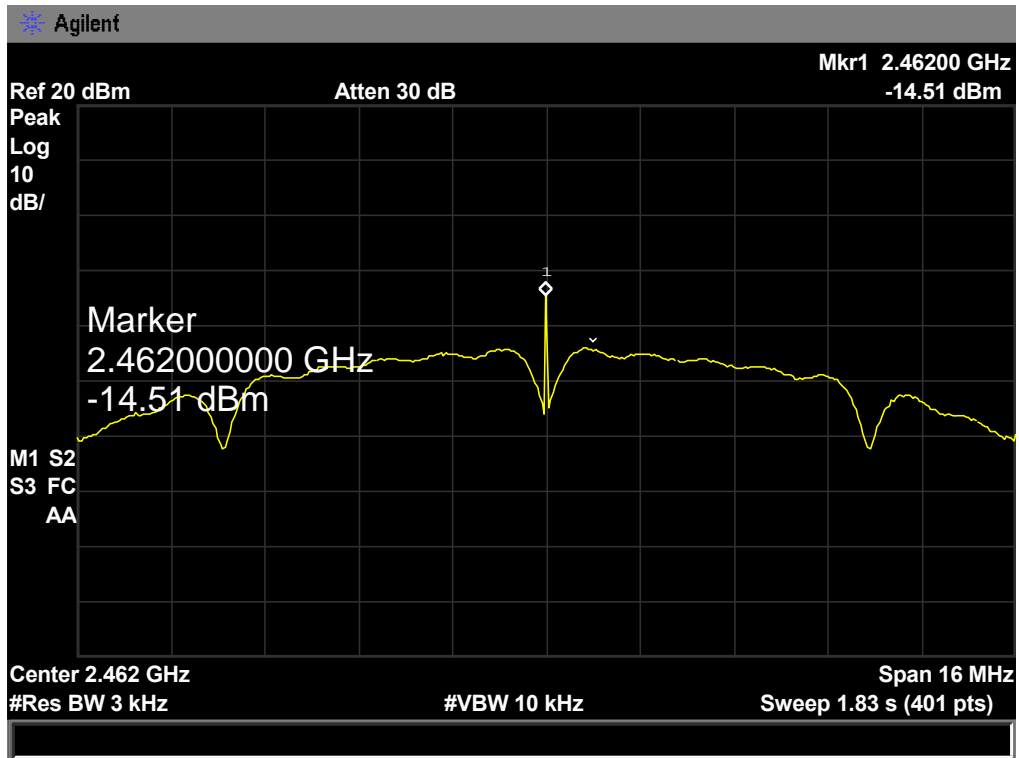
802.11B Mode

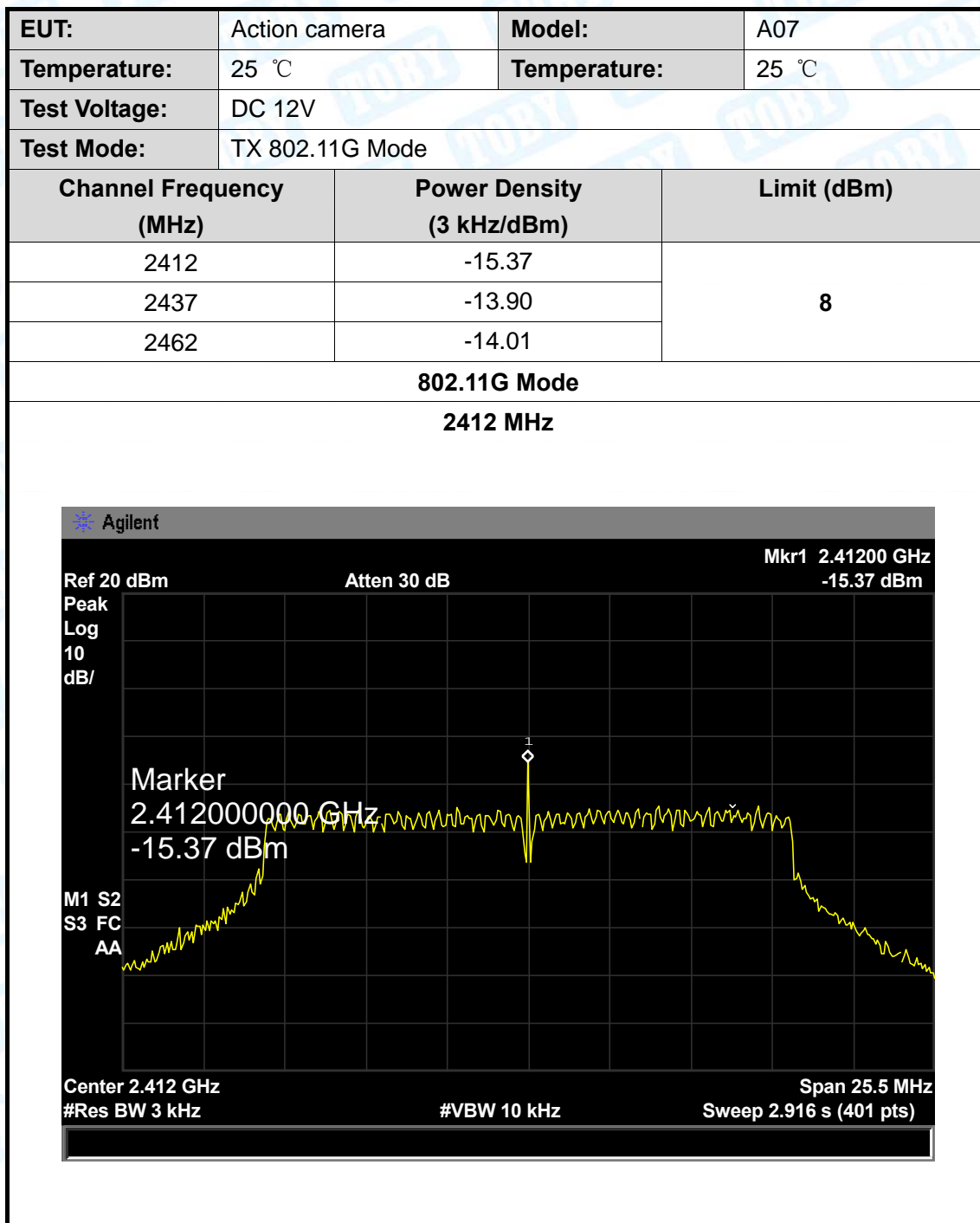
2437 MHz



802.11B Mode

2462 MHz

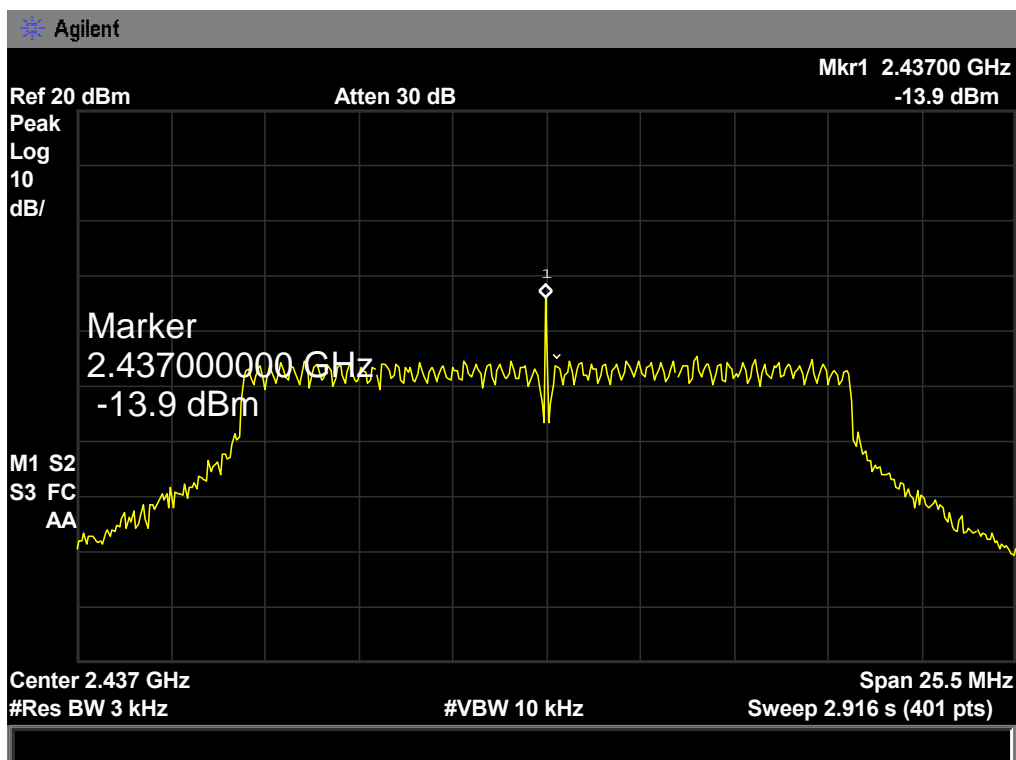






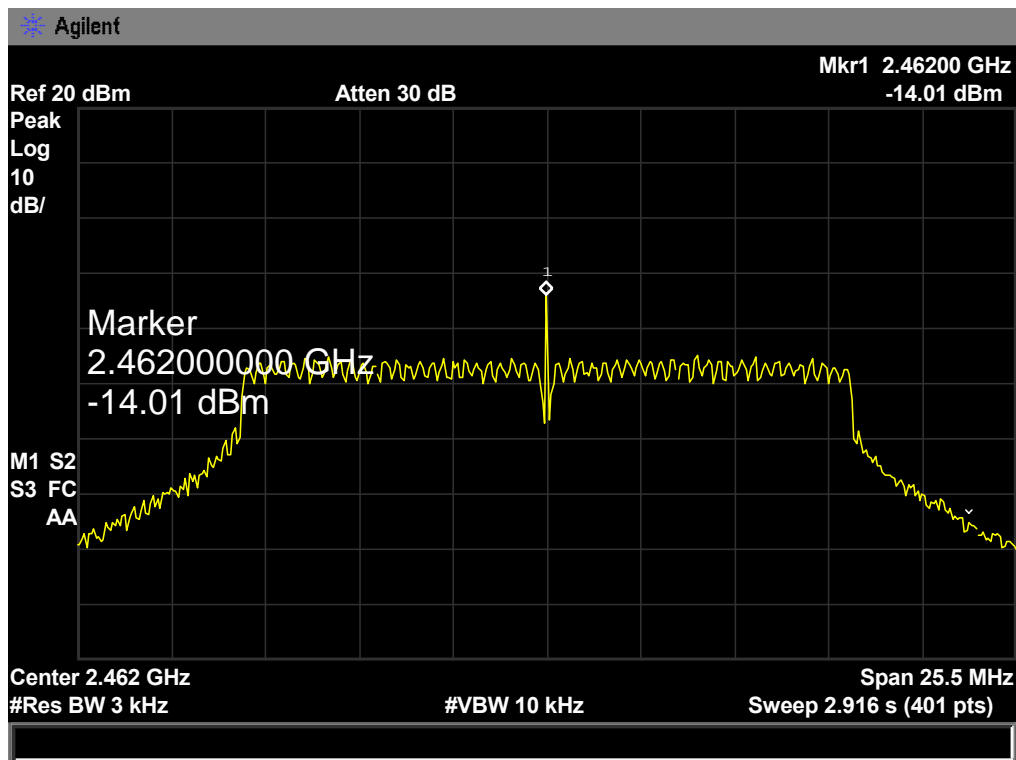
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	Action camera	Model:	A07
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 12V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-15.34	8	
2437	-14.48		
2462	-14.36		
802.11N(HT20) Mode			
2412 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.4120000 GHz  
-15.34 dBm

Peak Log 10 dB/

Marker 2.412000000 GHz  
-15.34 dBm

M1 S2  
S3 FC  
AA

Center 2.412 GHz

#Res BW 3 kHz

#VBW 10 kHz

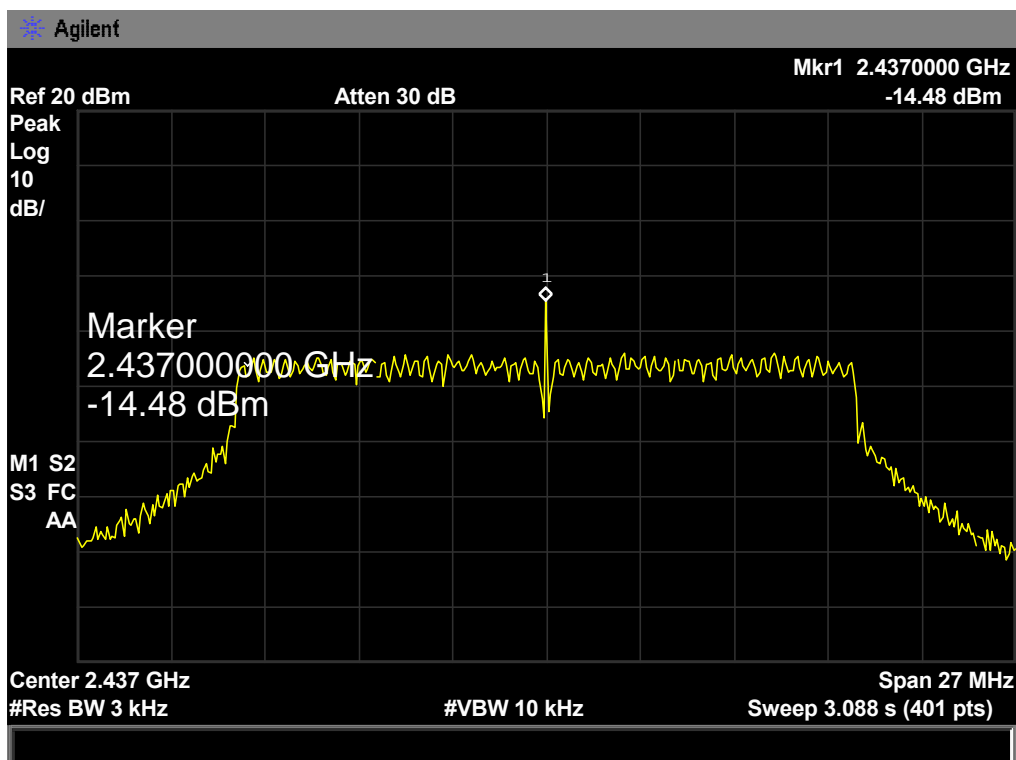
Span 27 MHz

Sweep 3.088 s (401 pts)



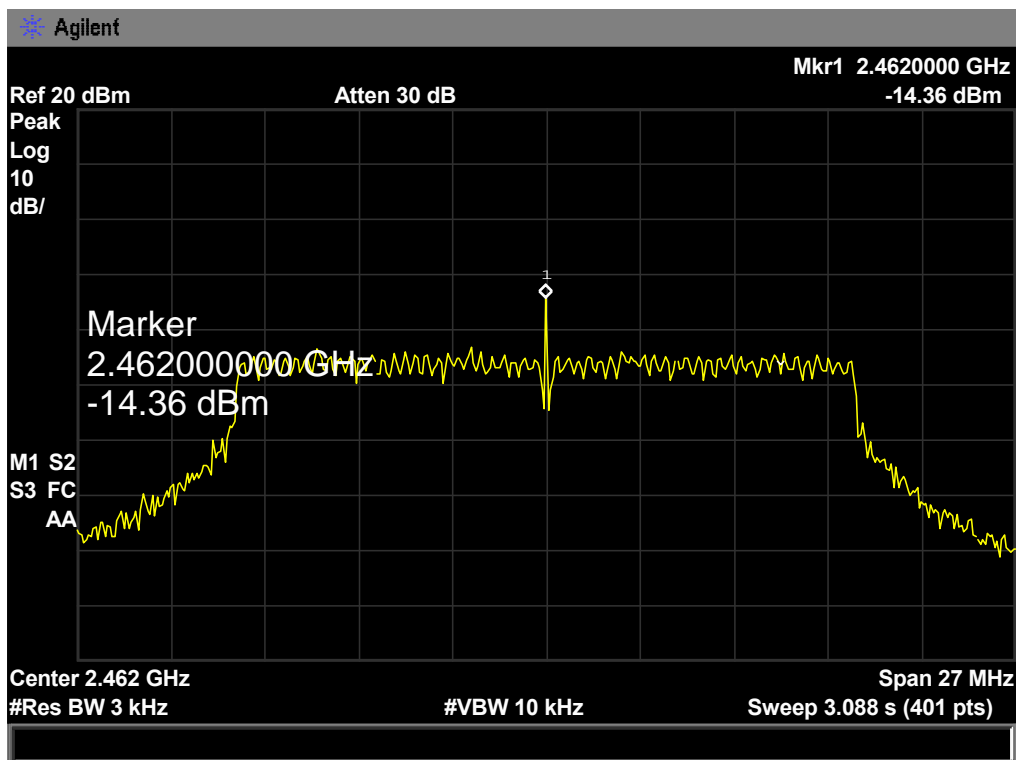
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



EUT:	Action camera	Model:	A07
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 12V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-15.03	8	
2437	-14.59		
2462	-14.43		
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 20 dBm

Atten 30 dB

Mkr1 2.42200 GHz  
-15.03 dBm

Peak

Log

10

dB/

Marker

2.422000000 GHz

-15.03 dBm

M1 S2

S3 FC

AA

Center 2.422 GHz

#Res BW 3 kHz

#VBW 10 kHz

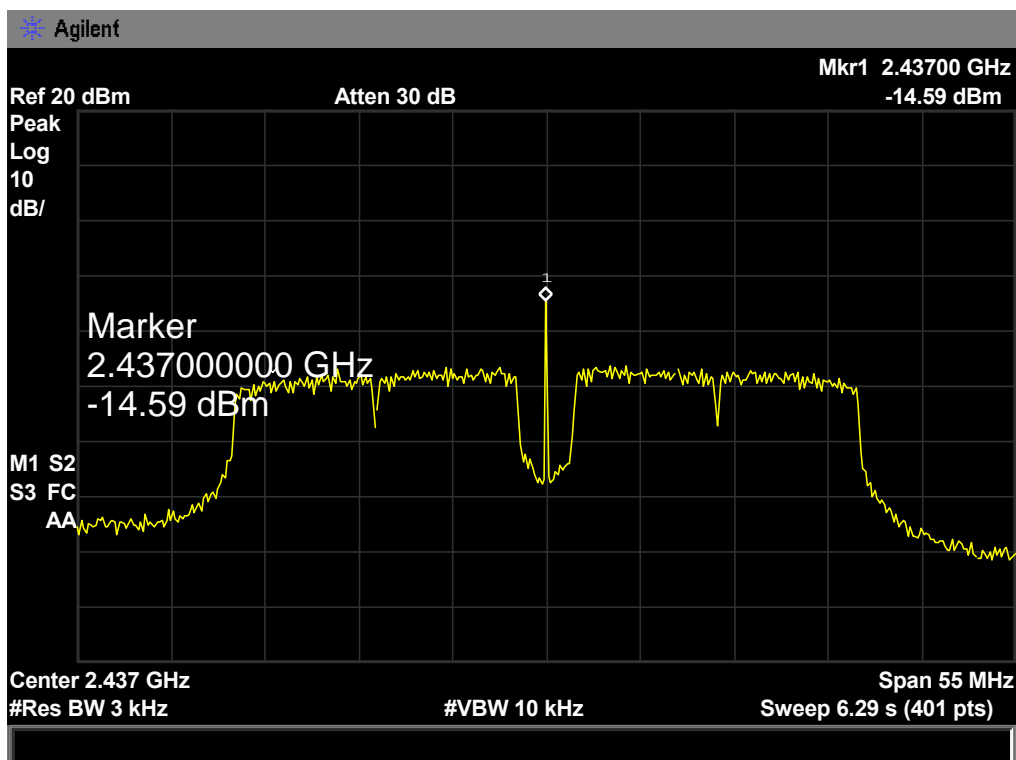
Span 55 MHz

Sweep 6.29 s (401 pts)



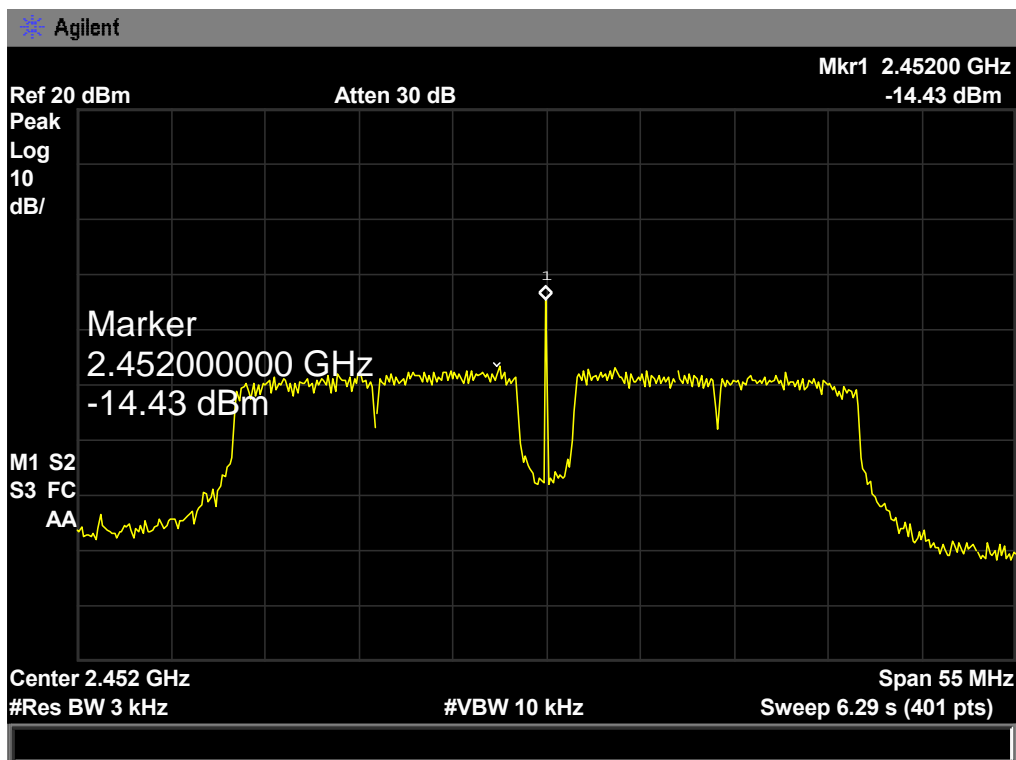
**802.11N(HT40) Mode**

**2437 MHz**



**802.11N(HT40) Mode**

**2452 MHz**



## 10. Antenna Requirement

### 10.1 Standard Requirement

#### 10.1.1 Standard

FCC Part 15.203

#### 10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 10.3 Result

The EUT antenna is a FPC Antenna. It complies with the standard requirement.

Antenna Type
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna