

FCC REPORT

Applicant: Shenzhen KDS Model Technologies Co., Ltd

Address of Applicant: Block 4, Fengmen Industrial Park, Egongling Villag Pinghu Town, Longgang, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Video Transmitter

Model No.: 600mw 32ch, 200mw 32ch, 25mw 32ch

FCC ID: ZED600MW

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.407:2014

Date of sample receipt: September 14, 2015

Date of Test: September 15-18, 2015

Date of report issued: September 21, 2015

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A circular blue stamp with the text "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD." around the perimeter and "GTS" in the center. Overlaid on the stamp is a handwritten signature in black ink.

Robinson Lo

Laboratory Manager

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 and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	September 21, 2015	Original

Prepared By:

Sam. Gao

Date:

September 21, 2015

Project Engineer

Check By:

Hank. Yan

Date:

September 21, 2015

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.407(a)(3)	Pass
Channel Bandwidth	15.407(a)(5)	Pass
Power Spectral Density	15.407(a)(3)	Pass
Band Edge	15.407(b)(4)	Pass
Spurious Emission	15.205/15.209/15.407(b)(4)	Pass
Frequency Stability	15.407 (g)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4-2014 & ANSI C63.10-2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 40GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

5 General Information

5.1 Client Information

Applicant:	Shenzhen KDS Model Technologies Co., Ltd
Address of Applicant:	Block 4, Fengmen Industrial Park, Egongling Villag Pinghu Town, Longgang, Shenzhen, China
Manufacturer/ Factory:	Shenzhen KDS Model Technologies Co., Ltd
Address of Manufacturer /Factory:	Block 4, Fengmen Industrial Park, Egongling Villag Pinghu Town, Longgang, Shenzhen, China

5.2 General Description of EUT

Product Name:	Video Transmitter
Model No.:	600mw 32ch, 200mw 32ch, 25mw 32ch
Operation Frequency:	5740-5825MHz
Channel numbers:	32
Modulation technology:	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	RPSMA Connector
Antenna gain:	2.0dBi for 5.8G band(declare by Applicant)
Power supply:	DC 7V-24V battery

Operation Frequency each of channel							
CH (A)	Frequency (MHz)	CH (B)	Frequency (MHz)	CH (E)	Frequency (MHz)	CH (F)	Frequency (MHz)
1	5740.00	1	5746.00	1	5751.00	1	5755.00
2	5750.00	2	5756.00	2	5761.00	2	5765.00
3	5760.00	3	5766.00	3	5771.00	3	5775.00
4	5770.00	4	5776.00	4	5781.00	4	5785.00
5	5780.00	5	5786.00	5	5791.00	5	5795.00
6	5790.00	6	5796.00	6	5801.00	6	5805.00
7	5800.00	7	5806.00	7	5811.00	7	5815.00
8	5810.00	8	5816.00	8	5821.00	8	5825.00

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
Lowest channel	5740
Middle channel	5780
Highest channel	5825

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the duty cycle>98%.</i>	

5.4 Description of Support Units

None.

5.5 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none">● FCC —Registration No.: 600491 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.● Industry Canada (IC) —Registration No.: 9079A-2 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.
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5.6 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China Tel: 0755-27798480 Fax: 0755-27798960</p>

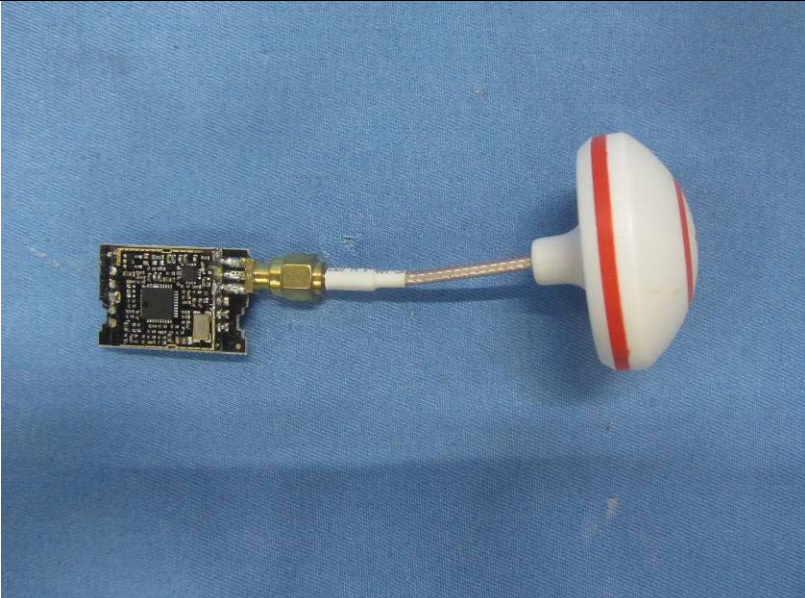
6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)*6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)*2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016
4	Spectrum analyzer	Agilent	E4447A	GTS516	June 30 2015	June 29 2016
5	Spectrum Analyzer	Agilent	E4440A	GTS533	Nov. 19 2014	Nov. 18 2015
6	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 22 2015	Feb. 21 2016
7	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2015	June 29 2016
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2015	Mar. 27 2016
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
11	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
12	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
13	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
14	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016
15	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016
16	Amplifier (18-40GHz)	MITEQ	AMF-6F-18004000-29-8P	GTS534	June 30 2015	June 29 2016
17	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
18	Constant temperature and humidity box	Oregon Scientific	BA-888	GTS248	Mar. 28 2015	Mar. 27 2016
19	D.C. Power Supply	Instek	PS-3030	GTS232	Mar. 28 2015	Mar. 27 2016
20	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	Mar. 28 2015	Mar. 27 2016
21	Splitter	Agilent	11636B	GTS237	Mar. 28 2015	Mar. 27 2016
22	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016
23	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016

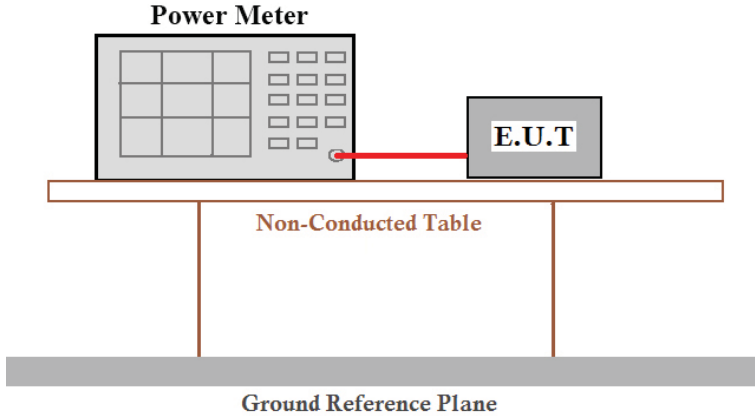
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 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, 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.	
E.U.T Antenna:	
<i>The antenna use the RPSMA Connector, the best case gain of the antenna is 2.0dBi</i>	
	

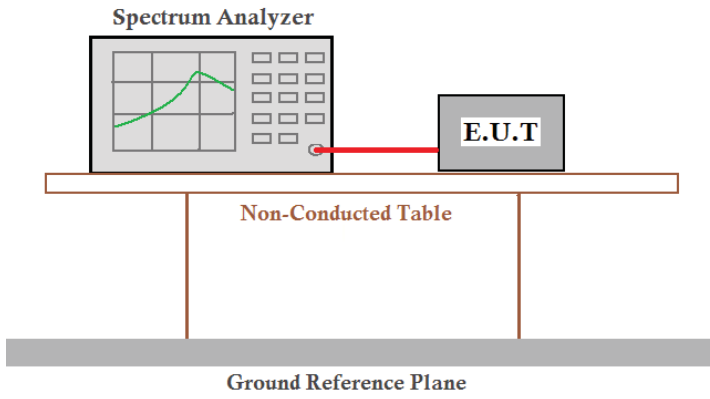
7.2 Conducted Peak Output Power

Test Requirement:	FCC Part15 E Section 15.407(a)(3)
Test Method:	ANSI C63.10:2013 and KDB789033 D02 General UNII Test Procedures New Rules v01
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Power Meter is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	20.82	30.00	Pass
Middle	20.65		
Highest	20.71		

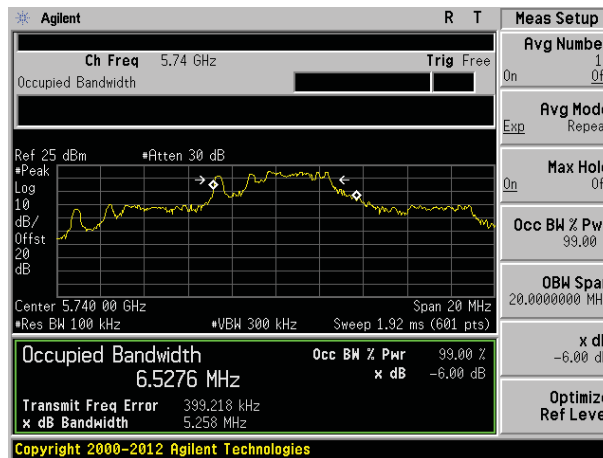
7.3 Channel Bandwidth

Test Requirement:	FCC Part15 E Section 15.407(a)(5)
Test Method:	ANSI C63.10:2013 and KDB789033 D02 General UNII Test Procedures New Rules v01
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

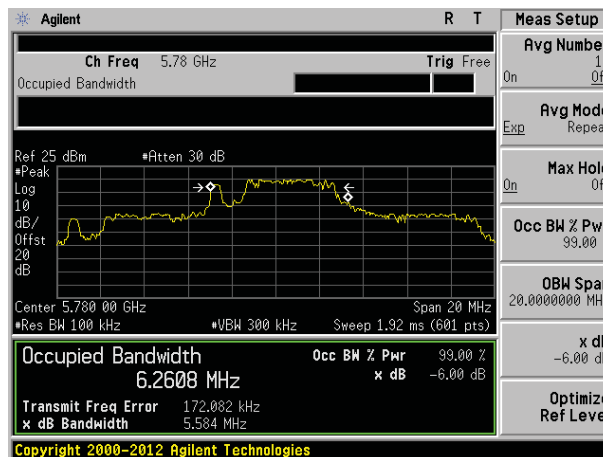
Measurement Data

Test channel	Channel Bandwidth (KHz)	Limit(KHz)	Result
Lowest	5258	>500	Pass
Middle	5584		
Highest	5622		

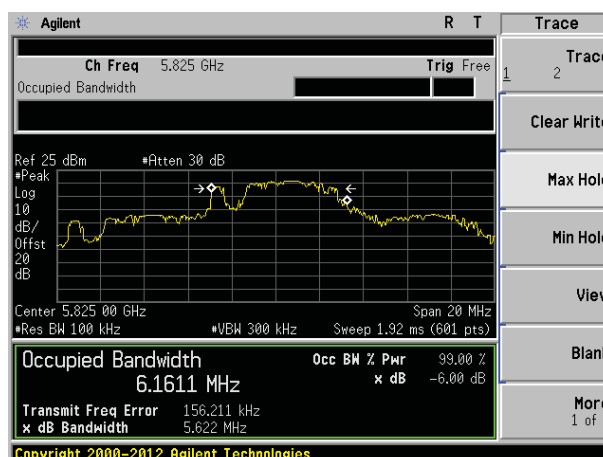
Test plot as follows:



Lowest channel

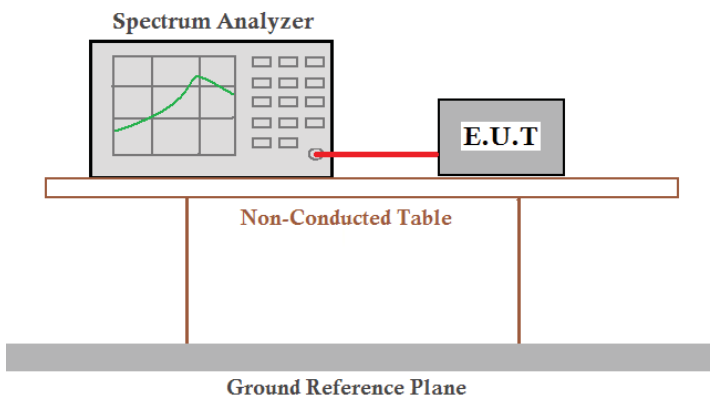


Middle channel



Highest channel

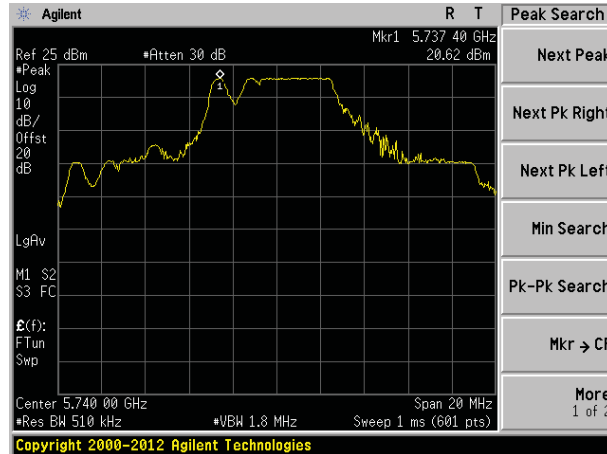
7.4 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407(a)(3)
Test Method:	ANSI C63.10:2013 and KDB789033 D02 General UNII Test Procedures New Rules v01
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

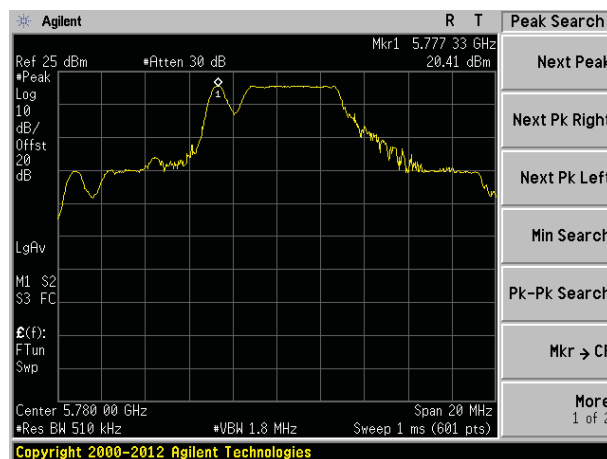
Measurement Data

Test channel	Power Spectral Density (dBm)	Limit(dBm/500kHz)	Result
Lowest	20.62	30.00	Pass
Middle	20.41		
Highest	20.50		

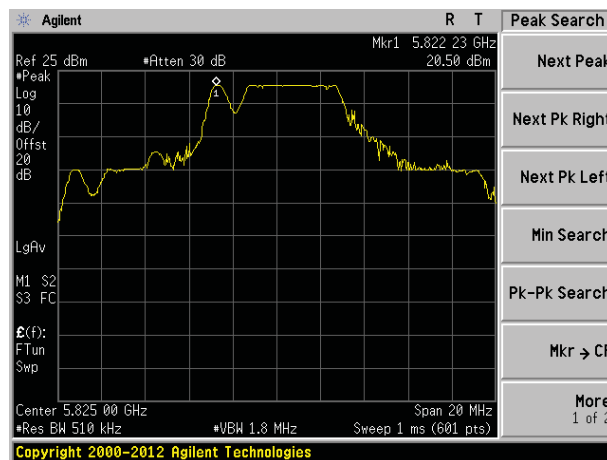
Test plot as follows:



Lowest channel



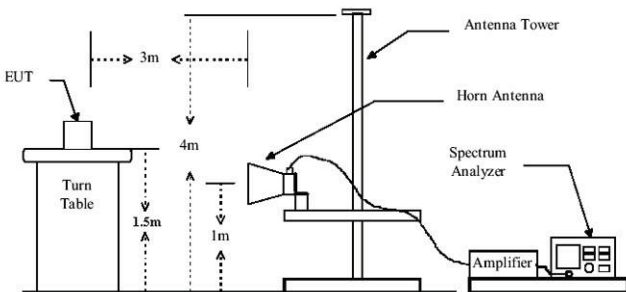
Middle channel



Highest channel

7.5 Band edges

7.5.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	30MHz to 40GHz, only worse case is reported				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above 1GHz	Peak	1MHz	3MHz	Peak
		RMS	1MHz	3MHz	Average
Limit:	Frequency		Limit (dBuV/m @3m)		Value
	Above 1GHz		54.00		Average
			74.00		Peak
Test setup:					
Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5715.00	34.25	27.59	5.38	30.18	37.04	68.20	-16.96	Horizontal
5725.00	44.40	27.59	5.38	30.18	47.19	78.20	-31.01	Horizontal
5715.00	34.00	27.59	5.38	30.18	36.79	68.20	-17.21	Vertical
5725.00	44.72	27.59	5.38	30.18	47.51	78.20	-30.69	Vertical

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	45.84	27.55	5.49	29.93	48.95	78.20	-29.25	Horizontal
5860.00	38.43	27.55	5.49	29.93	41.54	68.20	-26.66	Horizontal
5850.00	45.81	27.55	5.49	29.93	48.92	78.20	-25.08	Vertical
5860.00	38.41	27.55	5.49	29.93	41.52	68.20	-26.68	Vertical

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

Note:

According to KDB 789033 D02V01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

For example, if EIRP = -27dBm

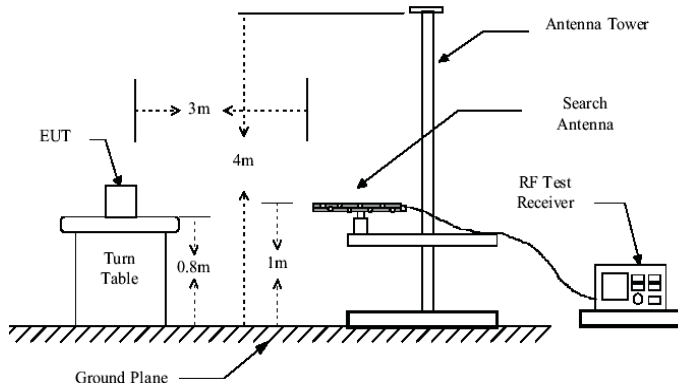
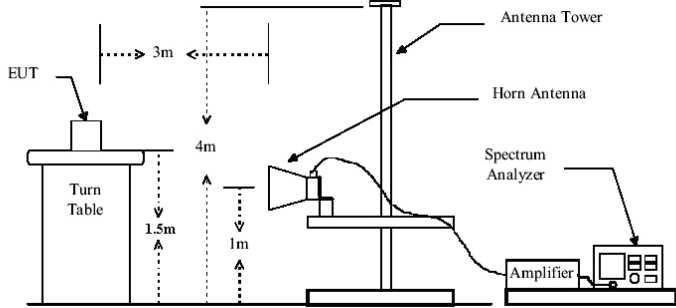
$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

For example, if EIRP = -17dBm

$$E[\text{dBuV/m}] = -17 + 95.2 = 78.2\text{dBuV/m}.$$

7.6 Spurious Emission

7.6.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Frequency		Limit (dBm/MHz)		Remark
	Above 1GHz		-27.0		Peak Value
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below				

	<p>1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
36.32	30.34	14.39	0.61	30.07	15.27	40.00	-24.73	Vertical
68.54	29.98	11.87	1.06	29.78	13.13	40.00	-26.87	Vertical
186.15	25.62	12.67	1.86	29.23	10.92	43.50	-32.58	Vertical
330.08	25.46	16.53	2.72	29.63	15.08	46.00	-30.92	Vertical
569.99	25.14	20.40	3.70	29.30	19.94	46.00	-26.06	Vertical
805.20	24.57	21.63	4.33	29.20	21.33	46.00	-24.67	Vertical
31.02	26.30	14.31	0.58	30.08	11.11	40.00	-28.89	Horizontal
81.35	26.60	12.30	0.91	29.88	9.93	40.00	-30.07	Horizontal
196.63	25.49	10.26	1.57	29.41	7.91	43.50	-35.59	Horizontal
356.33	25.48	15.33	2.47	29.88	13.40	46.00	-32.60	Horizontal
585.02	25.91	19.46	3.50	29.30	19.57	46.00	-26.43	Horizontal
799.81	25.50	21.29	4.23	29.20	21.82	46.00	-24.18	Horizontal

■ Above 1GHz

Test channel:					lowest		
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
V	5460.00	21.54	20.44	41.98	54(Note3)	-12.02	PK
V	7250.00	19.05	20.58	39.63	54(Note3)	-14.37	PK
V	11480.00	26.62	21.64	48.26	54(Note3)	-5.74	PK
V	17220.00	24.46	21.80	46.26	54(Note3)	-7.74	PK
H	5460.00	20.04	20.44	40.48	54(Note3)	-13.52	PK
H	7250.00	18.06	20.58	38.64	54(Note3)	-15.36	PK
H	11480.00	24.93	21.83	46.76	54(Note3)	-7.24	PK
H	17220.00	23.86	21.67	45.53	54(Note3)	-8.47	PK

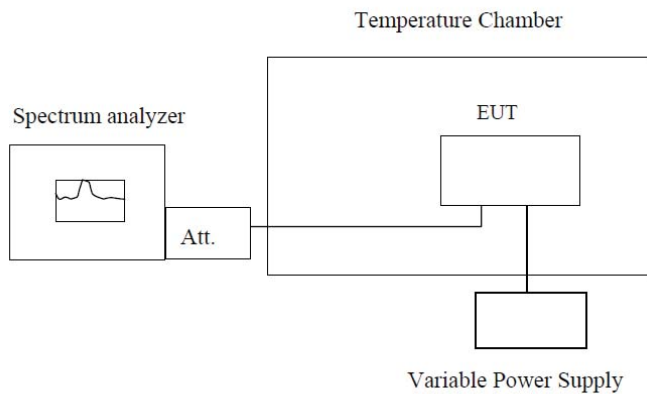
Test channel:					Middle		
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
V	5460.00	22.52	20.44	42.96	54(Note3)	-11.04	PK
V	7250.00	20.83	20.58	41.41	54(Note3)	-12.59	PK
V	11560.00	25.56	21.64	47.20	54(Note3)	-6.80	PK
V	17340.00	23.65	21.80	45.45	54(Note3)	-8.55	PK
H	5460.00	21.26	20.44	41.70	54(Note3)	-12.30	PK
H	7250.00	19.67	20.58	40.25	54(Note3)	-13.75	PK
H	11560.00	23.54	21.83	45.37	54(Note3)	-8.63	PK
H	17340.00	22.82	21.67	44.49	54(Note3)	-9.51	PK

Test channel:					Highest		
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
V	5460.00	21.84	20.44	42.28	54(Note3)	-11.72	PK
V	7250.00	19.35	20.58	39.93	54(Note3)	-14.07	PK
V	11650.00	25.12	21.64	46.76	54(Note3)	-7.24	PK
V	17475.00	23.30	21.80	45.10	54(Note3)	-8.90	PK
H	5460.00	19.99	20.44	40.43	54(Note3)	-13.57	PK
H	7250.00	18.31	20.58	38.89	54(Note3)	-15.11	PK
H	11650.00	23.58	21.83	45.41	54(Note3)	-8.59	PK
H	17475.00	22.61	21.67	44.28	54(Note3)	-9.72	PK

Note:

1. Measure Level = Reading Level + Factor.
2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. Factor = Antenna Factor + Cable - Preamp Factor

7.7 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)
Test Method:	ANSI C63.10:2013, FCC Part 2.1055
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified
Test Procedure:	The EUT was setup to ANSI C63.4,2014 ; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 <p>Note : Measurement setup for testing on Antenna connector</p>
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Note:Frequency Stability: $\pm 20\text{ppm}$

For 5740 MHz : 5739.8852~5740.1148

For 5780 MHz : 5779.8844~5780.1156

For 5825 MHz : 5824.8835~5825.1165

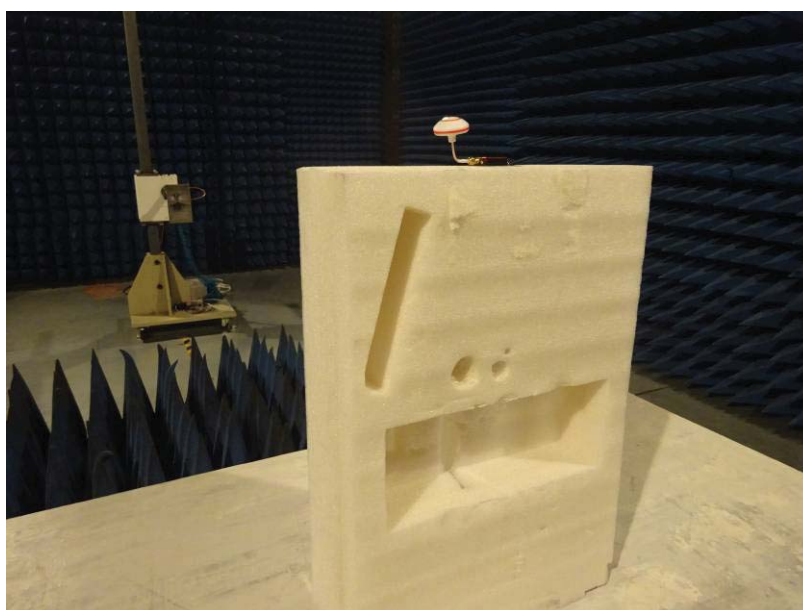
Measurement data:

Frequency stability versus Temp.					
Power Supply: DC 7.0V					
Temp. (°C)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
-30	5740	5739.9876	5739.9882	5739.9891	5739.9897
	5780	5779.9879	5779.9885	5779.9894	5779.9900
	5825	5824.9883	5824.9889	5824.9897	5824.9903
-20	5740	5739.9886	5739.9892	5739.9900	5739.9905
	5780	5779.9890	5779.9895	5779.9903	5779.9908
	5825	5824.9893	5824.9898	5824.9906	5824.9911
-10	5740	5739.9896	5739.9901	5739.9909	5739.9913
	5780	5779.9899	5779.9904	5779.9911	5779.9916
	5825	5824.9902	5824.9907	5824.9914	5824.9918
0	5740	5739.9905	5739.9909	5739.9917	5739.9921
	5780	5779.9908	5779.9912	5779.9919	5779.9923
	5825	5824.9910	5824.9915	5824.9921	5824.9925
10	5740	5739.9879	5739.9885	5739.9894	5739.9900
	5780	5779.9883	5779.9888	5779.9897	5779.9902
	5825	5824.9886	5824.9892	5824.9900	5824.9905
20	5740	5739.9890	5739.9895	5739.9903	5739.9908
	5780	5779.9893	5779.9898	5779.9906	5779.9911
	5825	5824.9896	5824.9901	5824.9909	5824.9913
30	5740	5739.9899	5739.9904	5739.9911	5739.9916
	5780	5779.9902	5779.9907	5779.9914	5779.9918
	5825	5824.9905	5824.9909	5824.9916	5824.9921
40	5740	5739.9908	5739.9912	5739.9919	5739.9923
	5780	5779.9910	5779.9915	5779.9921	5779.9925
	5825	5824.9913	5824.9917	5824.9924	5824.9927
50	5740	5739.9875	5739.9881	5739.9890	5739.9896
	5780	5779.9878	5779.9884	5779.9893	5779.9899
	5825	5824.9882	5824.9887	5824.9896	5824.9902

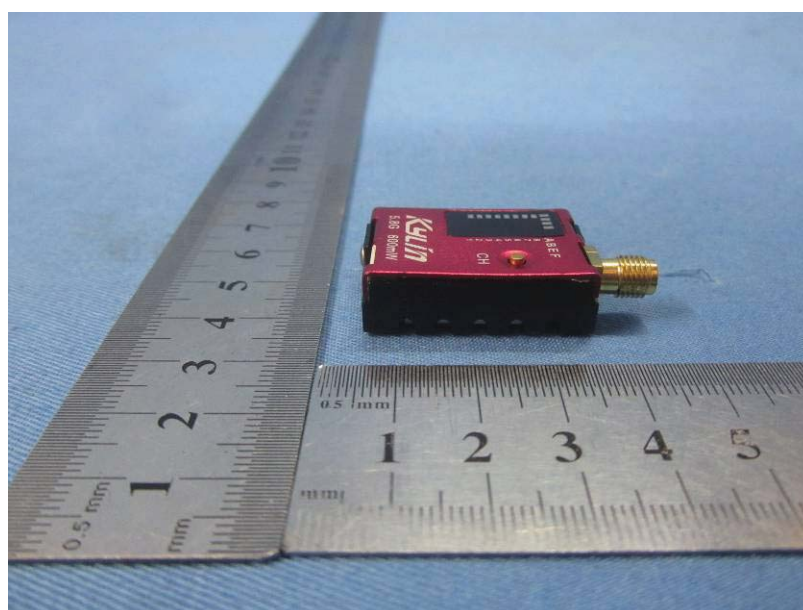
Frequency stability versus Voltage					
Temperature: 25°C					
Power Supply (VDC)	Operating Frequency (MHz)	0 minute Measured Frequency (MHz)	2 minute Measured Frequency (MHz)	5 minute Measured Frequency (MHz)	10 minute Measured Frequency (MHz)
7.0	5740	5739.9885	5739.9891	5739.9899	5739.9904
	5780	5779.9887	5779.9893	5779.9901	5779.9906
	5825	5824.9890	5824.9895	5824.9903	5824.9908
16.0	5740	5739.9892	5739.9897	5739.9905	5739.9910
	5780	5779.9894	5779.9899	5779.9907	5779.9912
	5825	5824.9896	5824.9901	5824.9909	5824.9913
24.0	5740	5739.9898	5739.9903	5739.9910	5739.9915
	5780	5779.9900	5779.9905	5779.9912	5779.9917
	5825	5824.9902	5824.9907	5824.9914	5824.9918

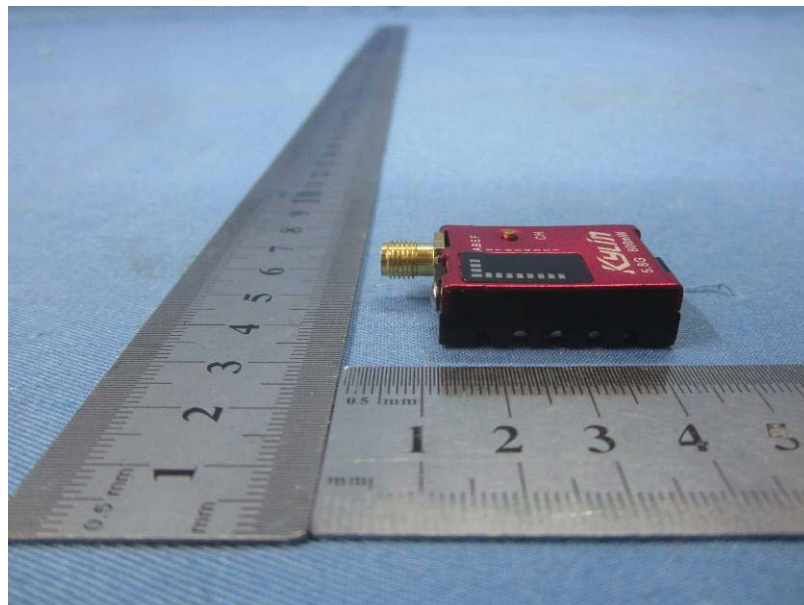
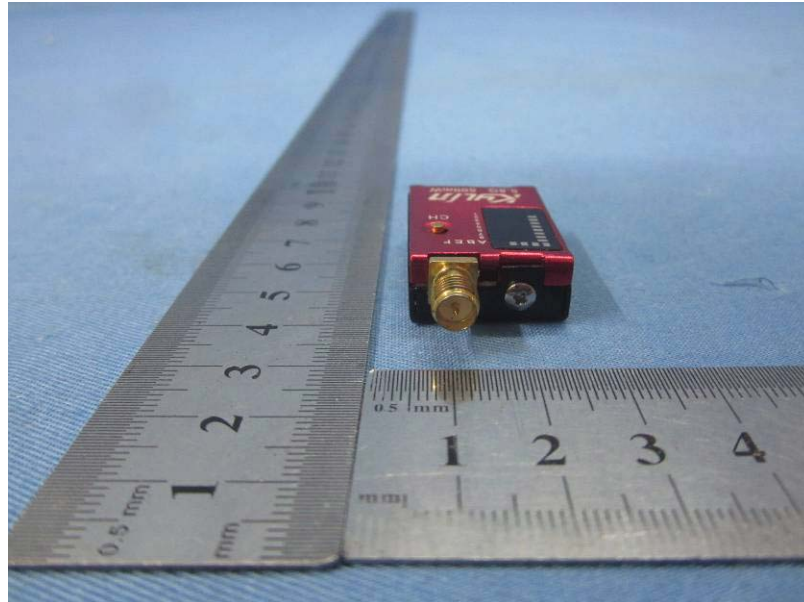
8 Test Setup Photo

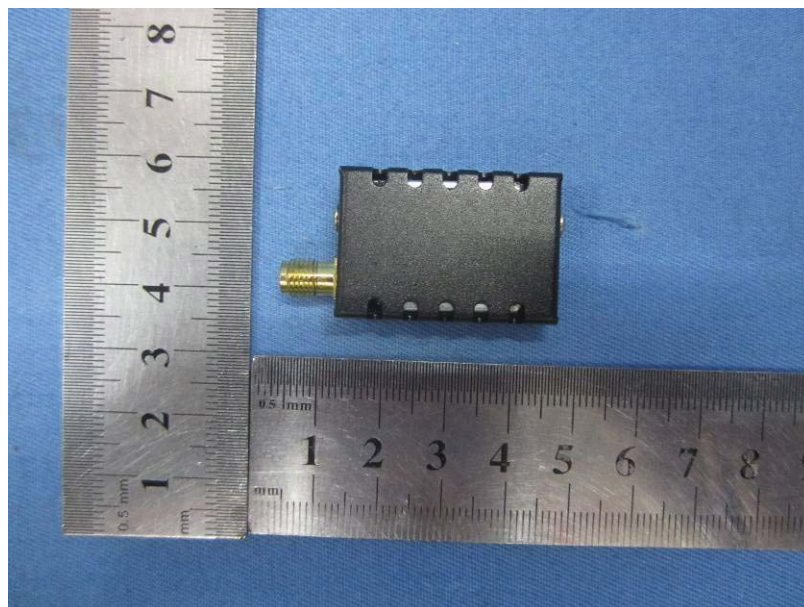
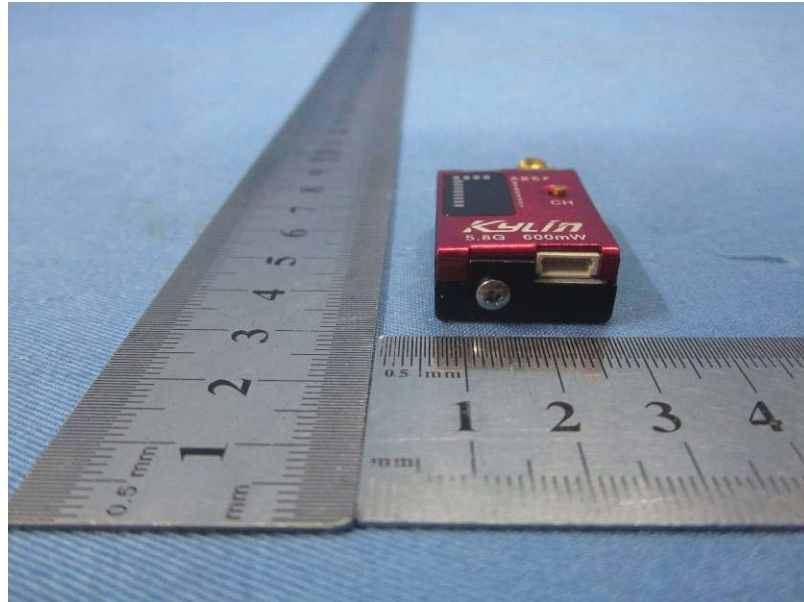
Radiated Emission

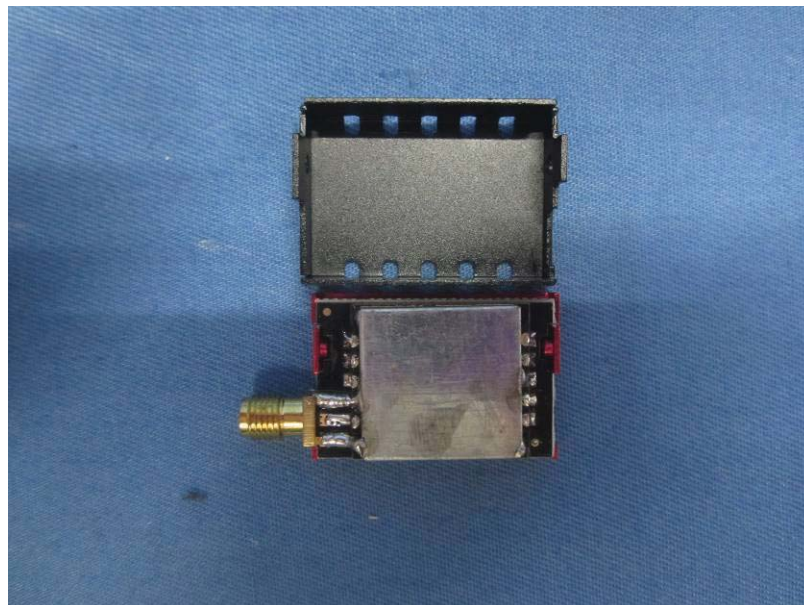
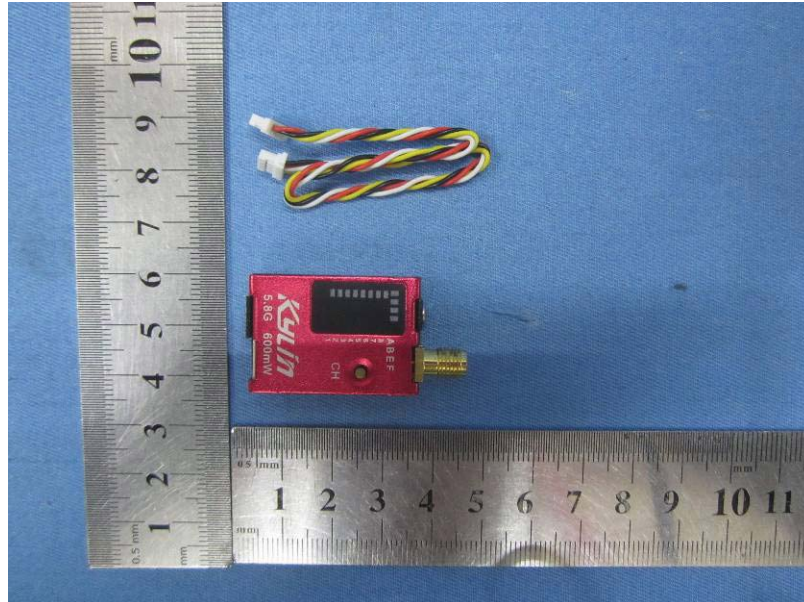


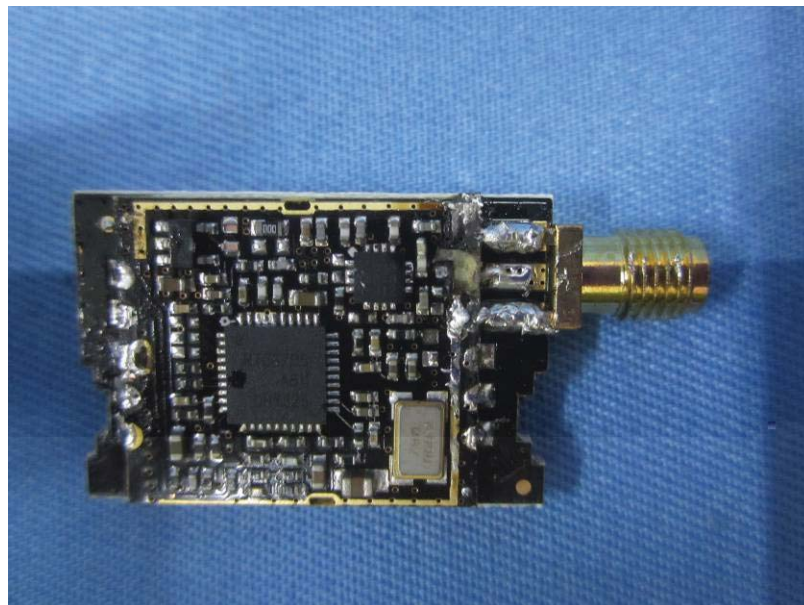
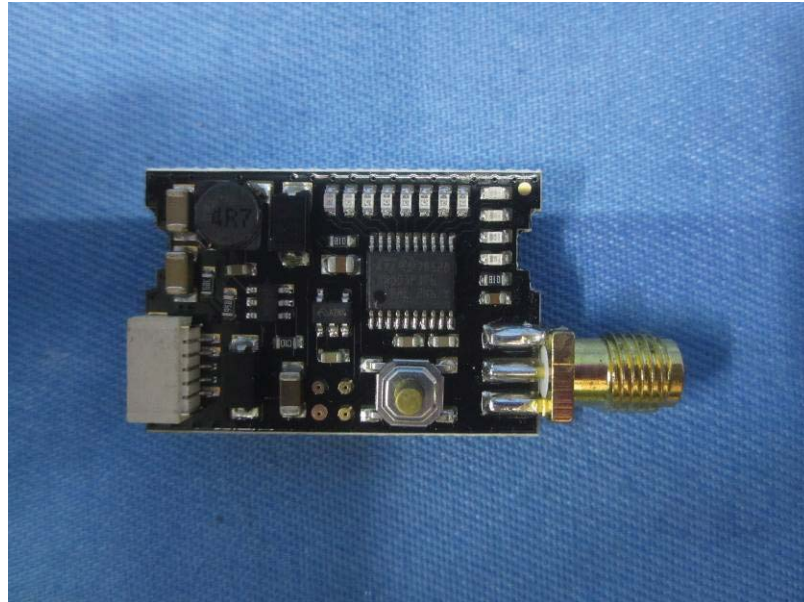
9 EUT Constructional Details

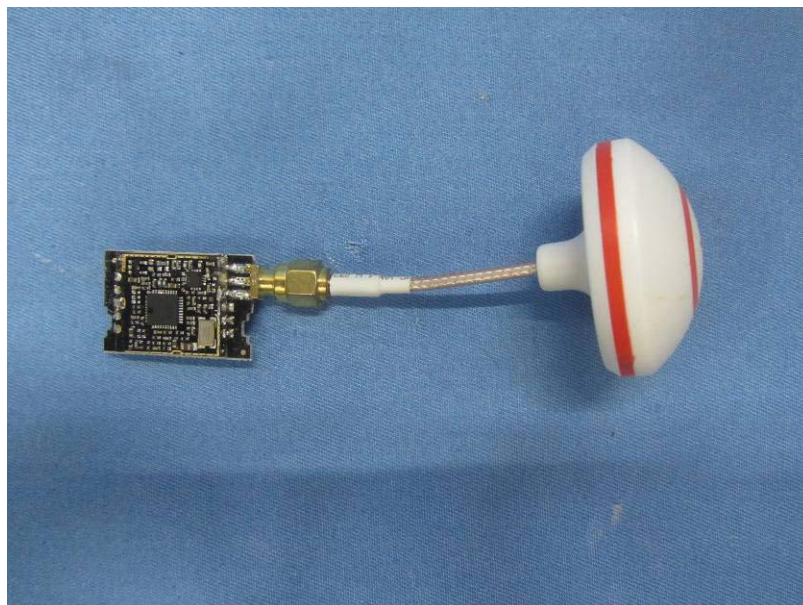












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