TEST REPORT

Applicant:	Hunan GM innovation technology co.,Ltd
Address of Applicant:	No.46 Jiefang East Road,Furong District,Changsha City,Hunan Province,China
Manufacturer/Factory:	Hunan GM innovation technology co.,Ltd
Address of Manufacturer/Factory:	No.46 Jiefang East Road,Furong District,Changsha City,Hunan Province,China

Equipment Under Test (EUT)

Product Name:	Vaxis wireless video system
Model No.:	Vaxis Atom 500 SDI RX, Vaxis Atom 600 SDI RX Vaxis Atom 600 KV RX, Vaxis Atom 600 ZV RX Vaxis Atom 600 DS SDI RX
Trade Mark:	N/A
FCC ID:	2AJOF-ATOM500SDI-RX
Applicable standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of sample receipt:	September 27, 2020
Date of Test:	September 27~ October 26, 2020
Date of report issue:	October 28, 2020
Test Result :	PASS *

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

Authorized Signature:

Robinson Luo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*2020-10-28*	*Original*

Prepared By:  ***Date:*** *2020-10-28*

Project Engineer

Check By:  ***Date:*** *2020-10-28*

Reviewer

3 Contents

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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	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(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 General Description of EUT

Product Name:	Vaxis wireless video system
Model No.:	Vaxis Atom 500 SDI RX, Vaxis Atom 600 SDI RX Vaxis Atom 600 KV RX, Vaxis Atom 600 ZV RX Vaxis Atom 600 DS SDI RX
Serial No.:	N/A
Hardware Version:	HDIP_SDI_RX
Software Version:	1.1.5S
Test sample(s) ID:	GTS202010000203-01
Sample(s) Status:	Engineer sample
Operation Frequency:	See table below
Modulation technology:	OFDM(BPSK/QPSK/16QAM/64QAM) MIMO: 802.11n SISO: 802.11a,802.11n
Antenna Type:	Integral Antenna
Antenna gain:	Antenna number: 2 ANTA:2.5dBi ANTB:2.5dBi MIMO technology Directional gain=5.51
Power supply:	DC 5V(Powered by adapter)

Band	Mode	Frequency Range(MHz)	Number of channels
U-NII Band I	IEEE 802.11a	5150-5250	4
	IEEE 802.11n/ac 20MHz	5150-5250	4

Channel list for 802.11a/802.11n (HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11a (SISI mode)	6 Mbps
802.11n(HT20) (SISI mode)	MCS 0
802.11n(HT20) (MIMO mode)	MCS 8

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 381383**

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 381383.

● **IC —Registration No.: 9079A**

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

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units and test scenario

1. Notebook
   Manufacturer: Lenovo
   Model: ThinkPad E15
   P/N: SL10W47275
   S/N: PF-26227L 20/04

2. LED TV
   Manufacturer: Hisense
   Model: LED32K300
   S/N: N/A

3. Power supply
Manufacturer: VIVO
Model: V18208-CN
Input: 100V-240V 50/60Hz 0.5A
Output: 5V/2A

4.USB Cable
Manufacturer: HUAWEI
Model: AP51
S/N: N/A

5. Describe the test scenario
The receiver is powered by the USB cable (about one meter long, unshielded, without magnetic ring) of the power adapter, adjust the function keys to select different transmitting frequencies for transmission, and test

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

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	July. 02 2020	July. 01 2025
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. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

Conducted Emission						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

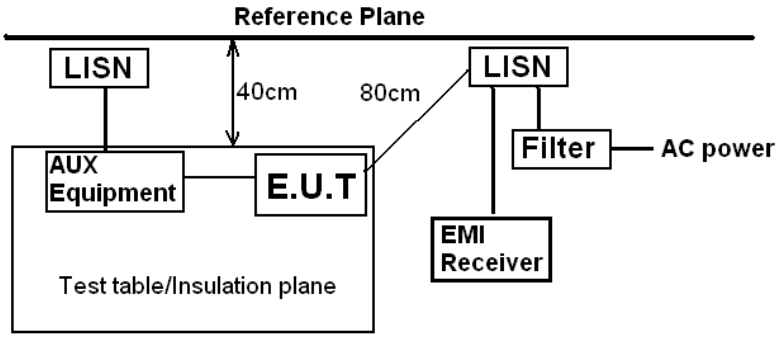
General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

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:	
The antennas are integral antenna, the best case gain of the antennas are 2.5dBi, reference to the appendix II for details	

7.2 Conducted Emissions

<table>
<tr><td>Test Requirement:</td><td colspan="6">FCC Part15 C Section 15.207</td></tr>
<tr><td>Test Method:</td><td colspan="6">ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td colspan="6">150KHz to 30MHz</td></tr>
<tr><td>Class / Severity:</td><td colspan="6">Class B</td></tr>
<tr><td>Receiver setup:</td><td colspan="6">RBW=9KHz, VBW=30KHz</td></tr>
<tr><td>Limit:</td><td colspan="6"><table><tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBuV)</td></tr><tr><td>Quasi-peak</td><td>Average</td></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>* Decreases with the logarithm of the frequency.</td></tr>
<tr><td>Test procedure</td><td colspan="6">The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</td></tr>
<tr><td>Test setup:</td><td colspan="6"> 

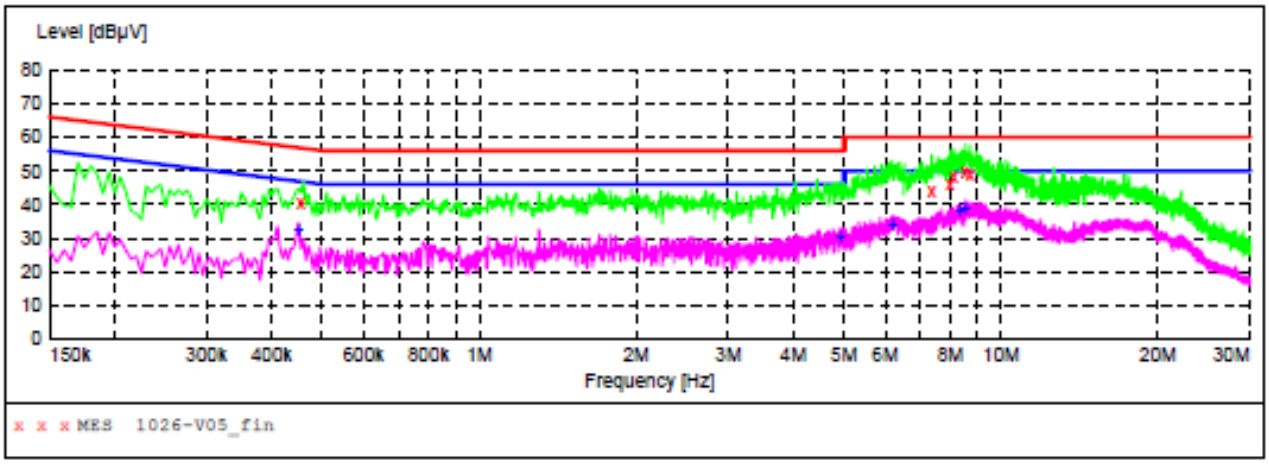
Remark:
E.U.T: Equipment Under Test
LISN: Line Impedence Stabilization Network
Test table height=0.8m</td></tr>
<tr><td>Test Instruments:</td><td colspan="6">Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td colspan="6">Refer to section 5.2 for details</td></tr>
<tr><td>Test environment:</td><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1012mbar</td></tr>
<tr><td>Test voltage:</td><td colspan="6">AC 120V, 60Hz</td></tr>
<tr><td>Test results:</td><td colspan="6">Pass</td></tr>
</table>

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

Measurement data:

Line:

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "1026-V05_fin"

2020-10-26 22:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.455000	40.30	11.0	57	16.5	QP	L1	GND
7.360000	44.10	11.3	60	15.9	QP	L1	GND
7.980000	45.90	11.3	60	14.1	QP	L1	GND
8.120000	48.50	11.3	60	11.5	QP	L1	GND
8.540000	49.60	11.3	60	10.4	QP	L1	GND
8.730000	49.00	11.3	60	11.0	QP	L1	GND

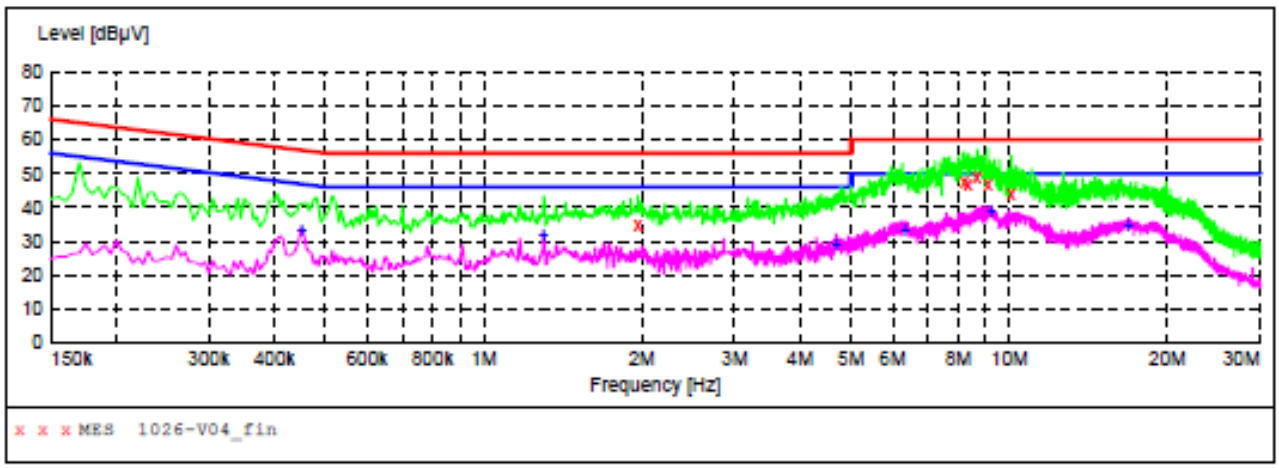
MEASUREMENT RESULT: "1026-V05_fin2"

2020-10-26 22:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	32.50	11.0	47	14.4	AV	L1	GND
4.910000	30.40	11.2	46	15.6	AV	L1	GND
6.190000	34.10	11.2	50	15.9	AV	L1	GND
8.320000	38.20	11.3	50	11.8	AV	L1	GND
8.540000	38.90	11.3	50	11.1	AV	L1	GND

Neutral:

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "1026-V04_fin"

2020-10-26 22:44

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
1.965000	34.70	10.9	56	21.3	QP	N	GND
8.200000	47.70	11.3	60	12.3	QP	N	GND
8.340000	47.10	11.3	60	12.9	QP	N	GND
8.680000	48.90	11.3	60	11.1	QP	N	GND
9.100000	47.00	11.3	60	13.0	QP	N	GND
10.075000	44.00	11.3	60	16.0	QP	N	GND

MEASUREMENT RESULT: "1026-V04_fin2"

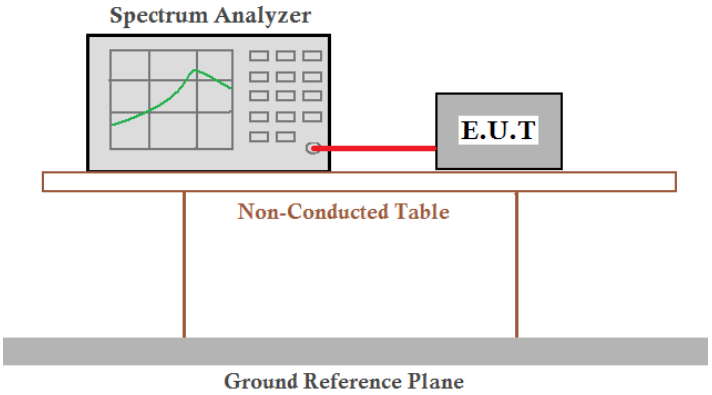
2020-10-26 22:44

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.450000	33.30	11.0	47	13.6	AV	N	GND
1.300000	31.90	11.0	46	14.1	AV	N	GND
4.680000	29.10	11.2	46	16.9	AV	N	GND
6.320000	33.60	11.3	50	16.4	AV	N	GND
9.230000	38.80	11.3	50	11.2	AV	N	GND
16.780000	35.00	11.4	50	15.0	AV	N	GND

Notes:

1. *An initial pre-scan was performed on the line and neutral lines with peak detector.*
2. *Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.*
3. *Final Level =Receiver Read level + LISN Factor + Cable Loss*

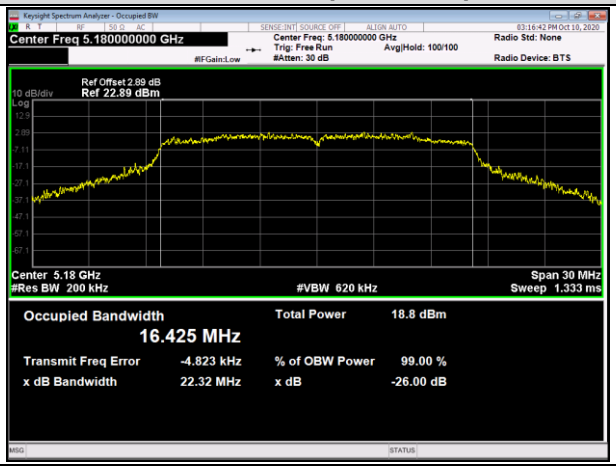
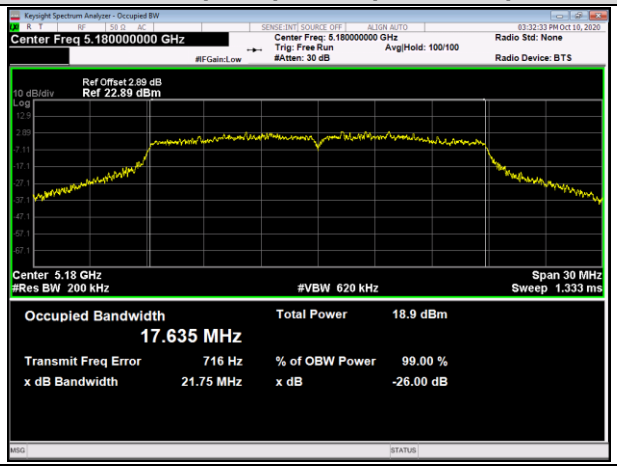
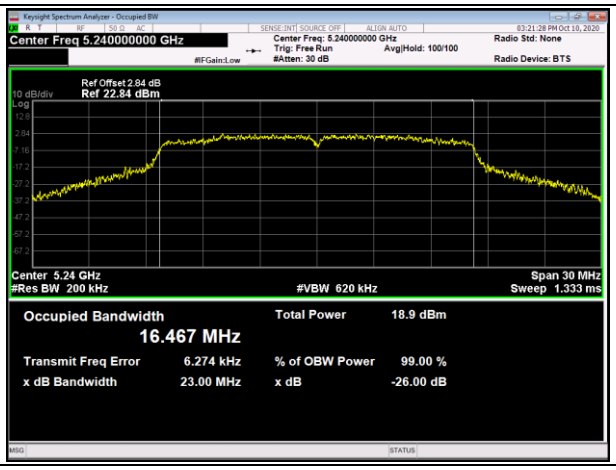
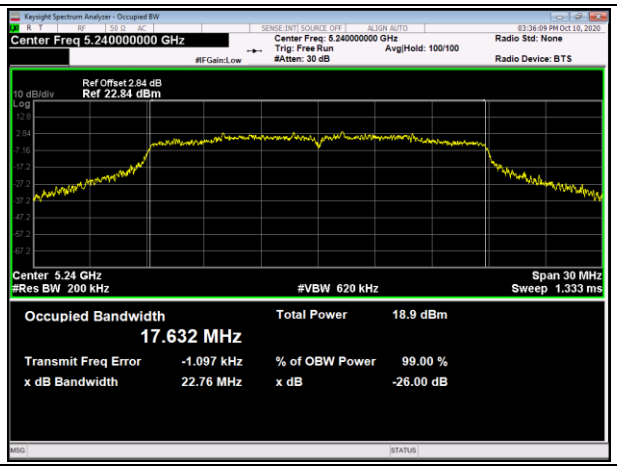
7.3 Emission Bandwidth and 99% Occupied Bandwidth

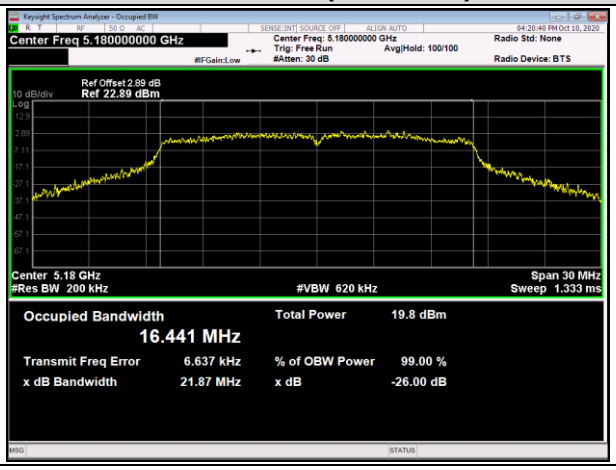
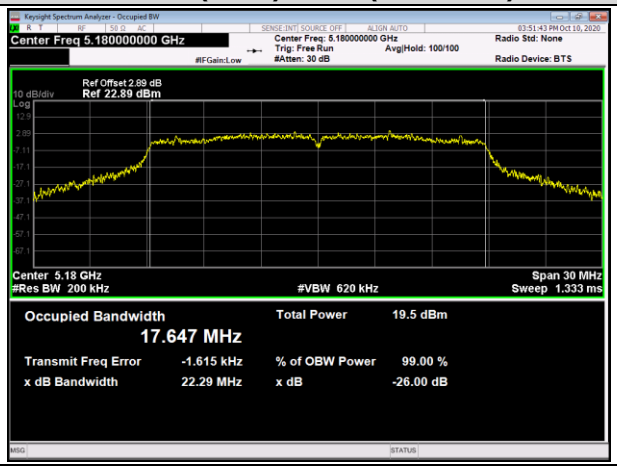
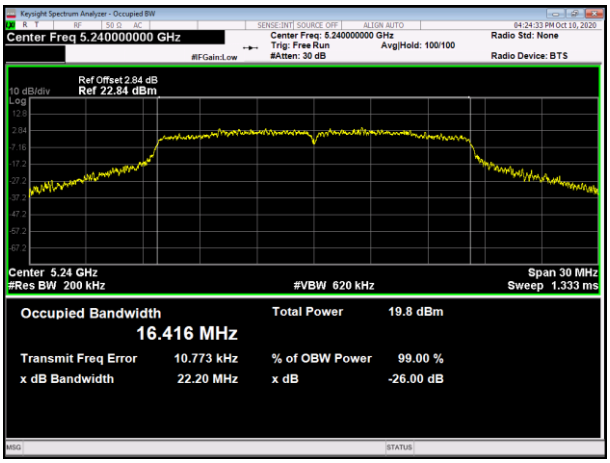
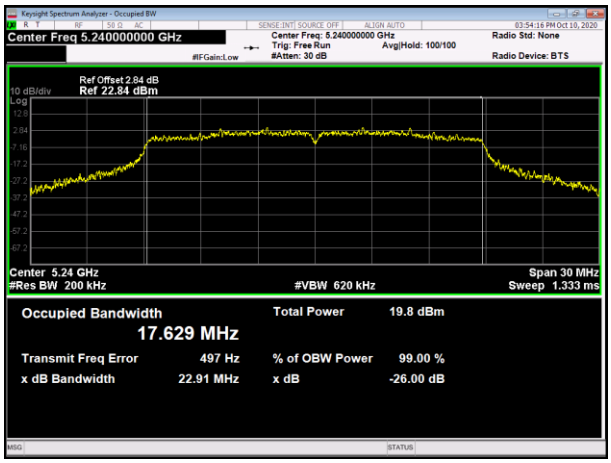
Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	N/A
Test setup:	
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

CH. No.	Frequency (MHz)	99% Occupied Bandwidth (MHz)				26dB Occupied Bandwidth (MHz)			
		802.11a		802.11n(HT20)		802.11a		802.11n(HT20)	
		ANT-A	ANT-B	ANT-A	ANT-B	ANT-A	ANT-B	ANT-A	ANT-B
36	5180	16.425	16.441	17.635	17.647	22.32	21.87	21.75	22.29
48	5240	16.467	16.416	17.632	17.629	23.00	22.20	22.76	22.91

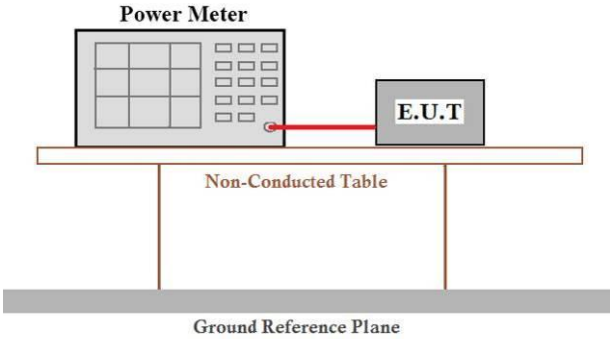
Test plots as followed:

802.11a mode (antenna-A)	802.11n(HT20) mode (antenna-A)
	
5180	5180
	
5240	5240

802.11a mode (antenna-B)	802.11n(HT20) mode (antenna-B)
	
5180	5180
	
5240	5240

Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.4 Peak Transmit Power

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 General U-NII Test Procedures New Rules v02r01</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency band (MHz)</td><td>Limit</td></tr>
<tr><td rowspan="2">5150-5250</td><td>≤1W(30dBm) for master device</td></tr>
<tr><td>≤250mW(23.98dBm) for client device</td></tr>
<tr><td>5250-5350</td><td>≤250mW(23.98dBm) for client device or 11dBm+10logB*</td></tr>
<tr><td>5470-5725</td><td>≤250mW(23.98dBm) for client device or 11dBm+10logB*</td></tr>
<tr><td colspan="2">Remark: *Where B is the 26dB emission bandwidth in MHz.
The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td> 
</td></tr>
<tr><td>Test procedure:</td><td>Measurement using an RF average power meter
(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied
a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).
(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 5.2 for details</td></tr>
<tr><td>Test results:</td><td>Pass</td></tr>
</table>

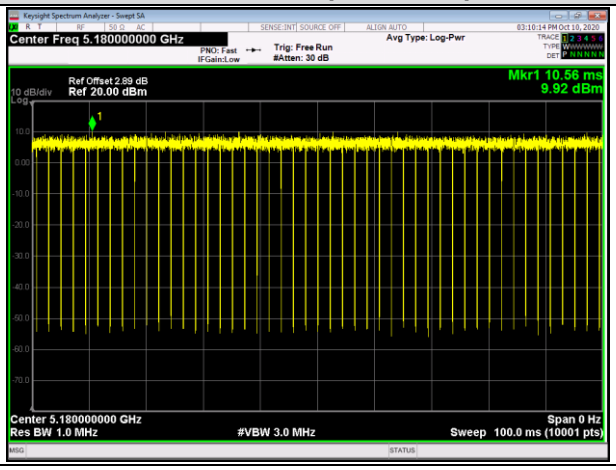
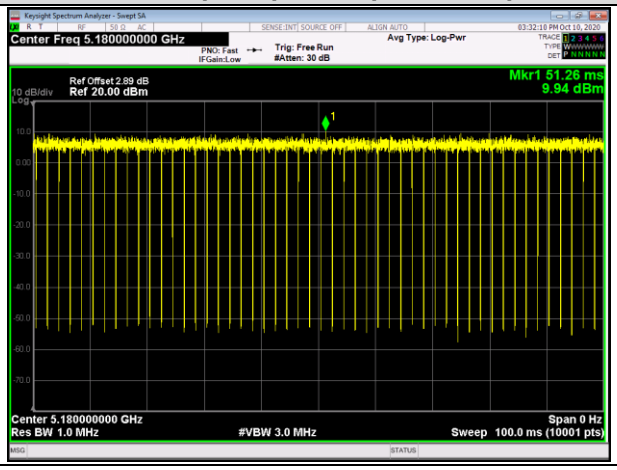
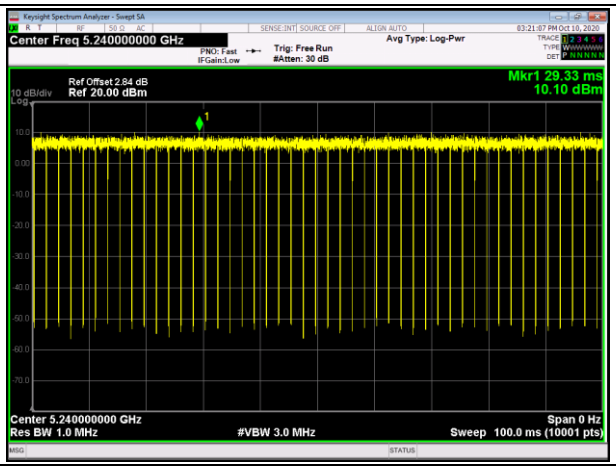
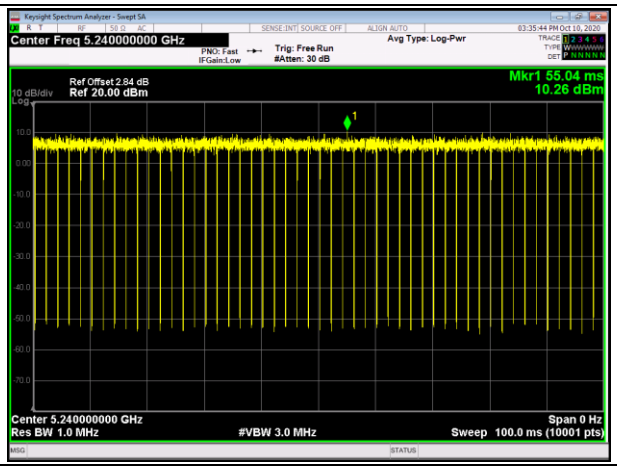
Measurement Data

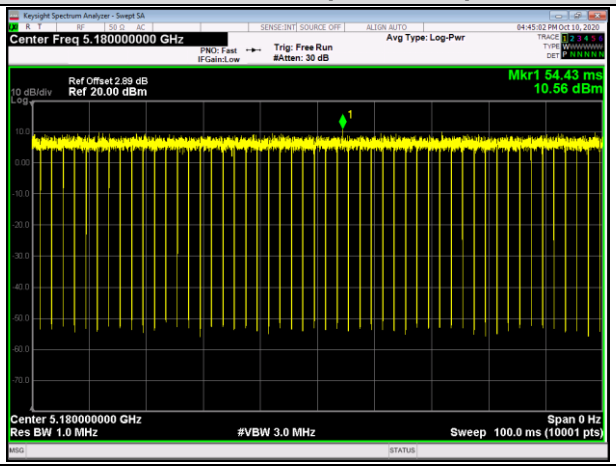
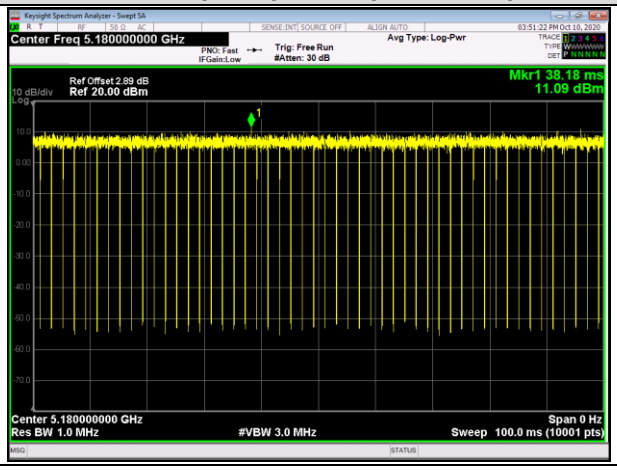
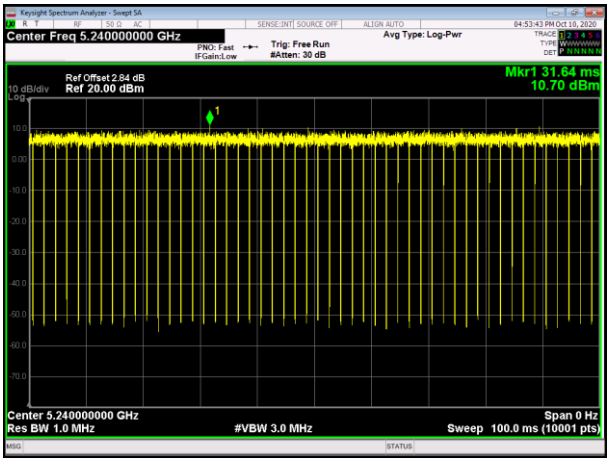
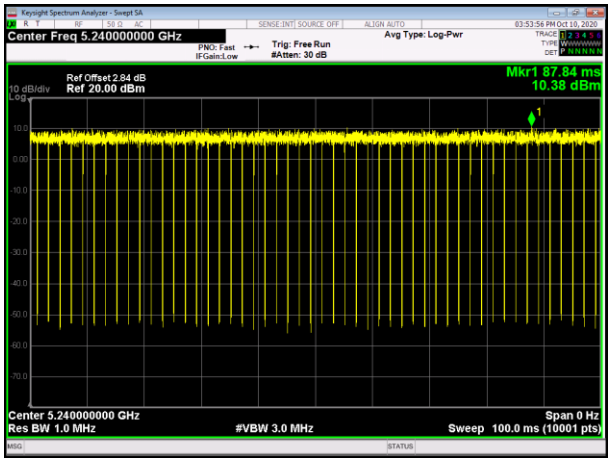
Modulation	Frequency (MHz)	Duty cycle		Duty Factor	
		ANTENNA-A	ANTENNA-B	ANTENNA-A	ANTENNA-B
802.11a	5180	96.22%	96.10%	0.17	0.17
	5240	96.21%	96.14%	0.17	0.17
802.11n(HT20)	5180	96.25%	96.27%	0.17	0.17
	5240	96.25%	96.25%	0.17	0.17

802.11a mode										
CH No.	Frequency (MHz)	Measured Power (dBm)			Duty Factor	Output Power (dBm)			Limit (dBm)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	13.22	13.90	--	0.17	13.39	14.07	--	23.98	Pass
48	5240	13.23	14.06	--	0.17	13.40	14.23	--		
802.11n(HT20) mode										
CH No.	Frequency (MHz)	Measured Power (dBm)			Duty Factor	Output Power (dBm)			Limit (dBm)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	12.94	13.74	16.30	0.17	13.11	13.91	16.47	23.98	Pass
48	5240	12.88	13.96	16.63	0.17	13.05	14.13	16.80		

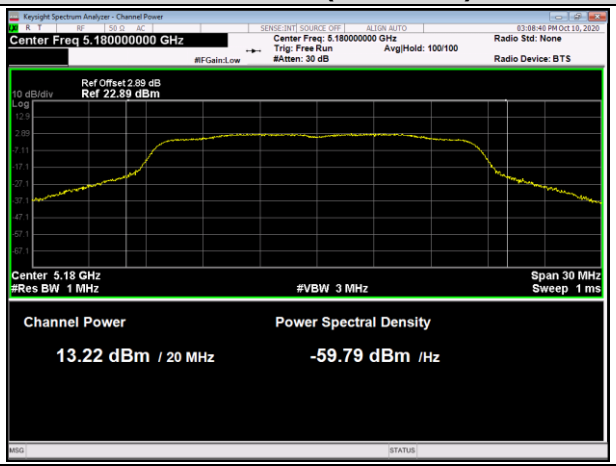
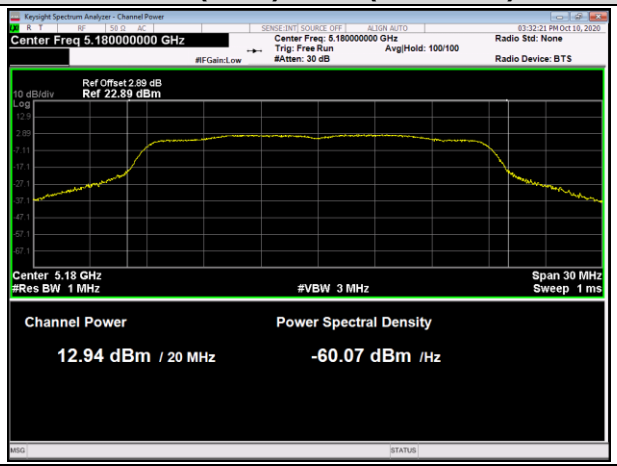
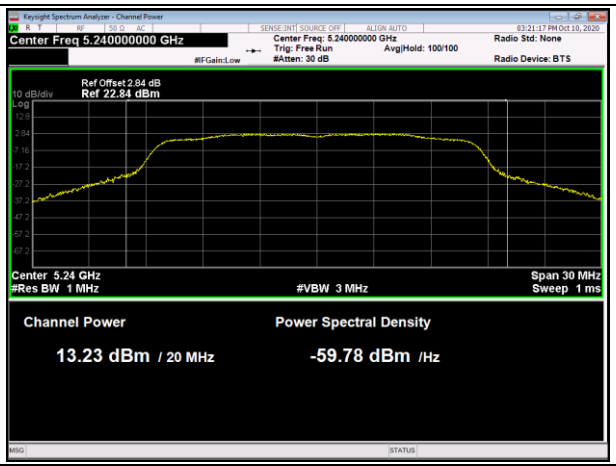
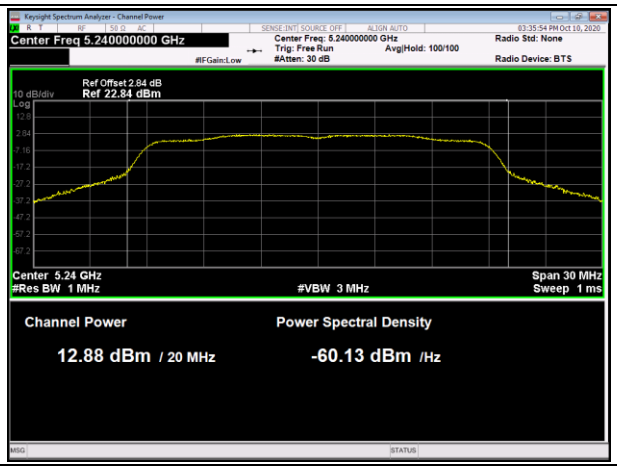
Note: Output Power = Measured Power + Duty Factor
Duty Factor = 10 log (1/Duty Cycle)

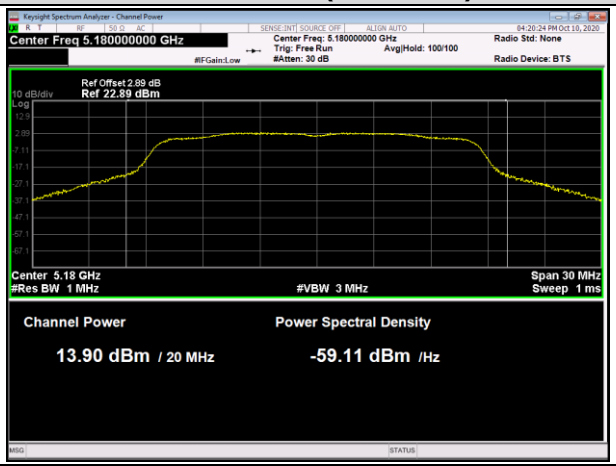
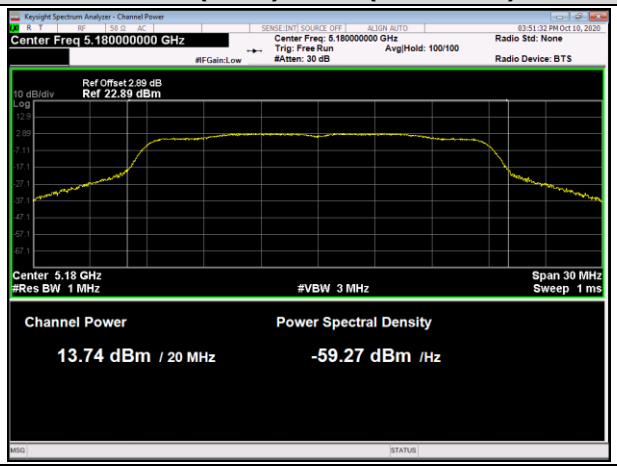
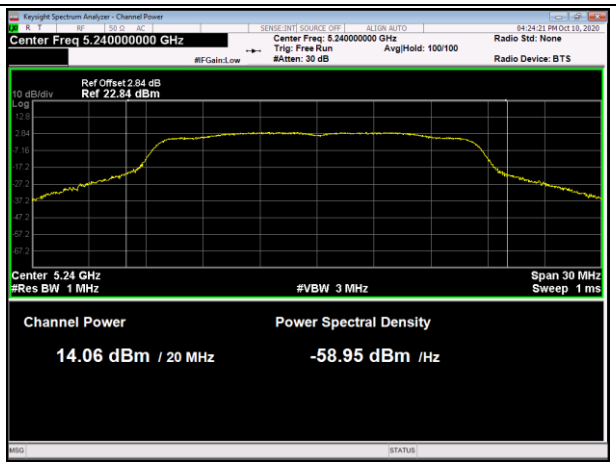
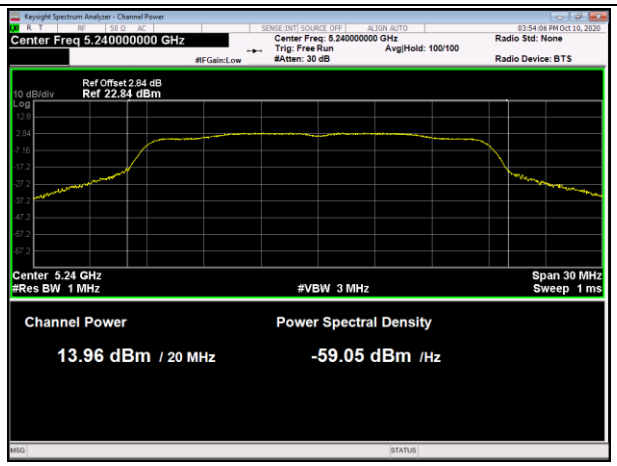
Test plots as followed:

802.11a mode (Antenna A)	802.11n(HT20) mode (Antenna A)
	
5180	**5180**
	
5240	**5240**

802.11a mode (Antenna B)	802.11n(HT20) mode (Antenna B)
	
5180	5180
	
5240	5240

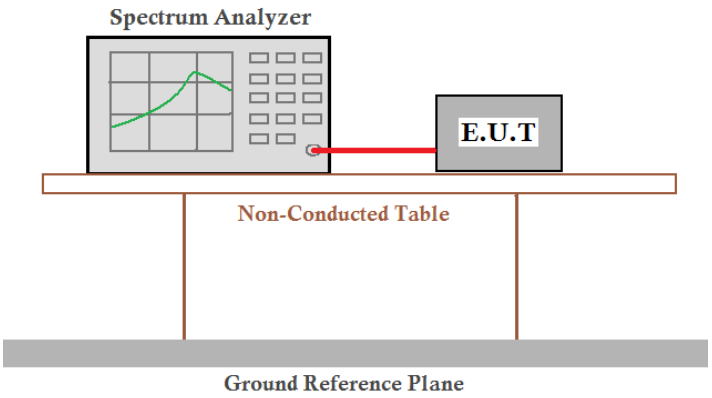
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

802.11a mode (Antenna A)	802.11n(HT20) mode (Antenna A)
	
5180	5180
	
5240	5240

802.11a mode (Antenna B)	802.11n(HT20) mode (Antenna B)
	
5180	5180
	
5240	5240

Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.5 Power Spectral Density

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407</td></tr>
<tr><td>Test Method:</td><td>KDB 789033 D02 General U-NII Test Procedures New Rules v02r01</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><td>Frequency band (MHz)</td><td>Limit</td></tr>
<tr><td rowspan="2">5150-5250</td><td>≤17dBm in 1MHz for master device</td></tr>
<tr><td>≤11dBm in 1MHz for client device</td></tr>
<tr><td>5250-5350</td><td>≤11dBm in 1MHz for client device</td></tr>
<tr><td>5470-5725</td><td>≤11dBm in 1MHz for client device</td></tr>
<tr><td colspan="2">Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</td></tr>
</table>
</td></tr>
<tr><td>Test setup:</td><td> 
</td></tr>
<tr><td>Test procedure:</td><td>1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power…”.
2) Use the peak search function on the instrument to find the peak of the spectrum.
3) Make the following adjustments to the peak value of the spectrum, if applicable:
a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum.
b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4) The result is the PSD.</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td>Refer to section 5.2 for details</td></tr>
<tr><td>Test results:</td><td>Pass</td></tr>
</table>

Measurement Data

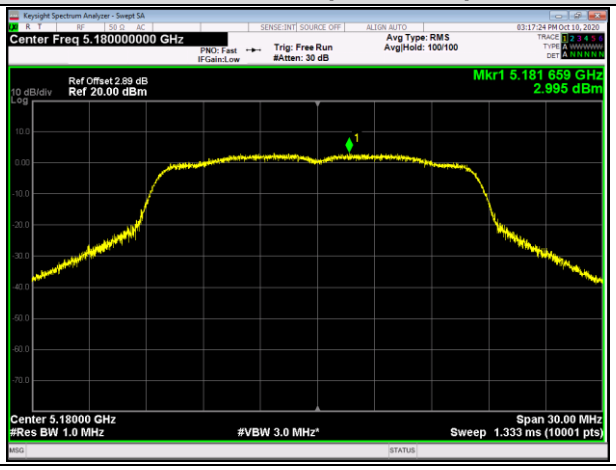
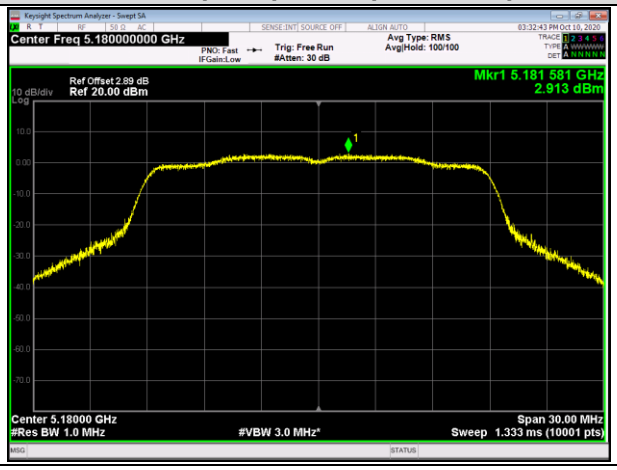
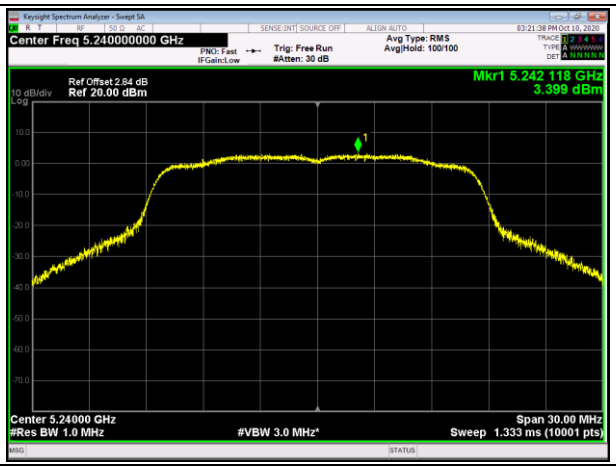
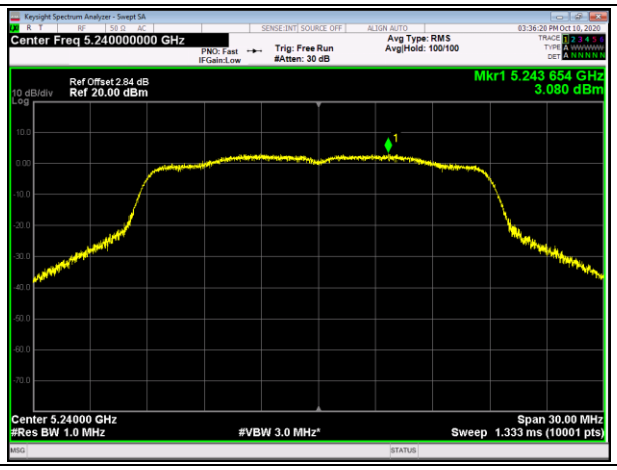
Modulation	Frequency (MHz)	Duty cycle		Duty Factor	
		ANTENNA-A	ANTENNA-B	ANTENNA-A	ANTENNA-B
802.11a	5180	96.22%	96.10%	0.17	0.17
	5240	96.21%	96.14%	0.17	0.17
802.11n(HT20)	5180	96.25%	96.27%	0.17	0.17
	5240	96.25%	96.25%	0.17	0.17

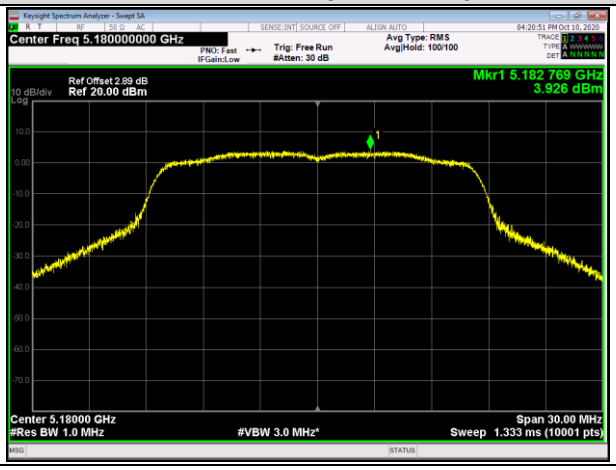
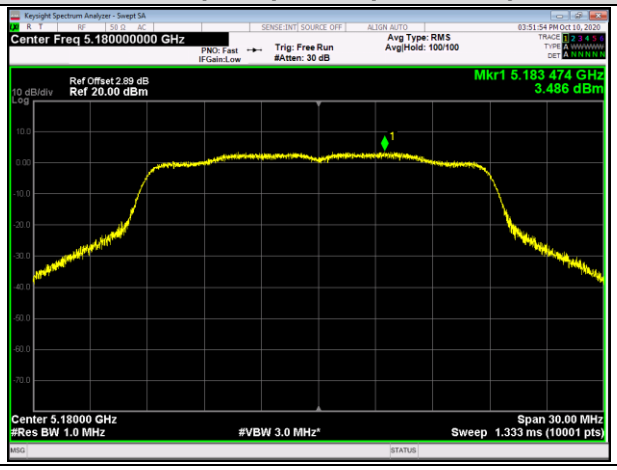
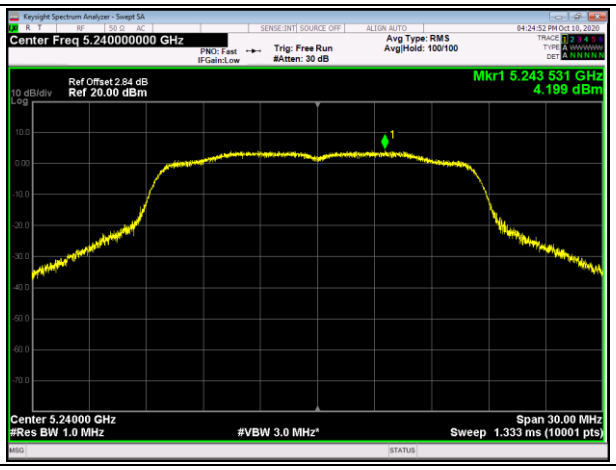
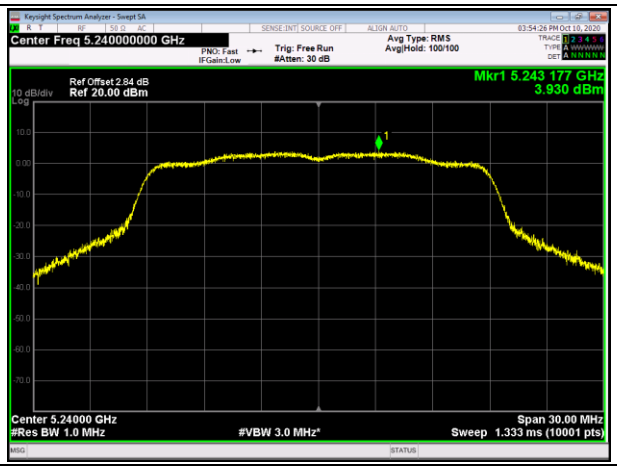
802.11a mode										
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz)			Duty Factor	Total PSD Power(dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	2.995	3.926	--	0.17	3.165	4.096	--	11	Pass
48	5240	3.399	4.199	--	0.17	3.569	4.369	--	11	Pass
802.11n(HT20) mode										
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz)			Duty Factor	Total PSD Power(dBm/MHz)			Limit (dBm/MHz)	Result
		ANT A	ANT B	ANT A+B		ANT A	ANT B	ANT A+B		
36	5180	2.913	3.486	6.213	0.17	5.24	3.656	6.383	11	Pass
48	5240	3.080	3.930	6.725	0.17	4.015	4.100	6.895	11	Pass

Note: Output Power = Measured Power + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

Test plots as followed:

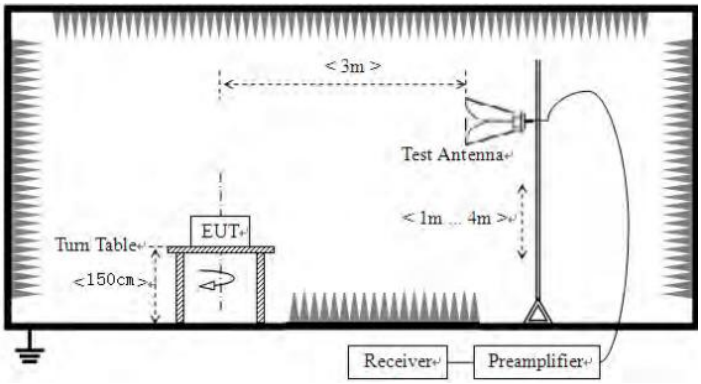
802.11a mode (Antenna A)	802.11n(HT20) mode (Antenna A)
	
5180	**5180**
	
5240	**5240**

802.11a mode (Antenna B)	802.11n(HT20) mode (Antenna B)
	
5180	**5180**
	
5240	**5240**

Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

7.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 and 5.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. 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.
d. 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 rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. 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
</td></tr>
</table>

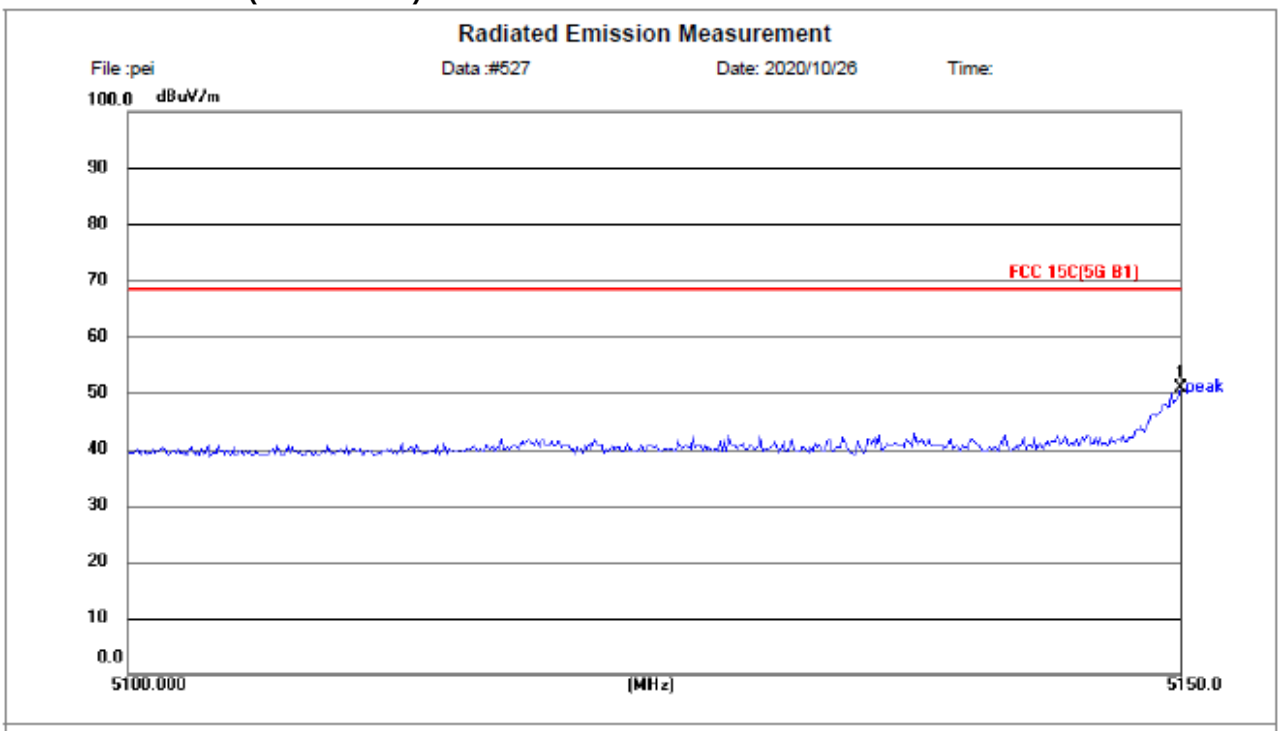
	have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test setup:	For radiated emissions above 1GHz 
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
5. *According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:*
   E[dBuV/m] = EIRP[dBm] + 95.2;
   For example, if EIRP = -27dBm
   E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Radiated Band Edge Result

Horizontal: 802.11a (TX 5180MHz)



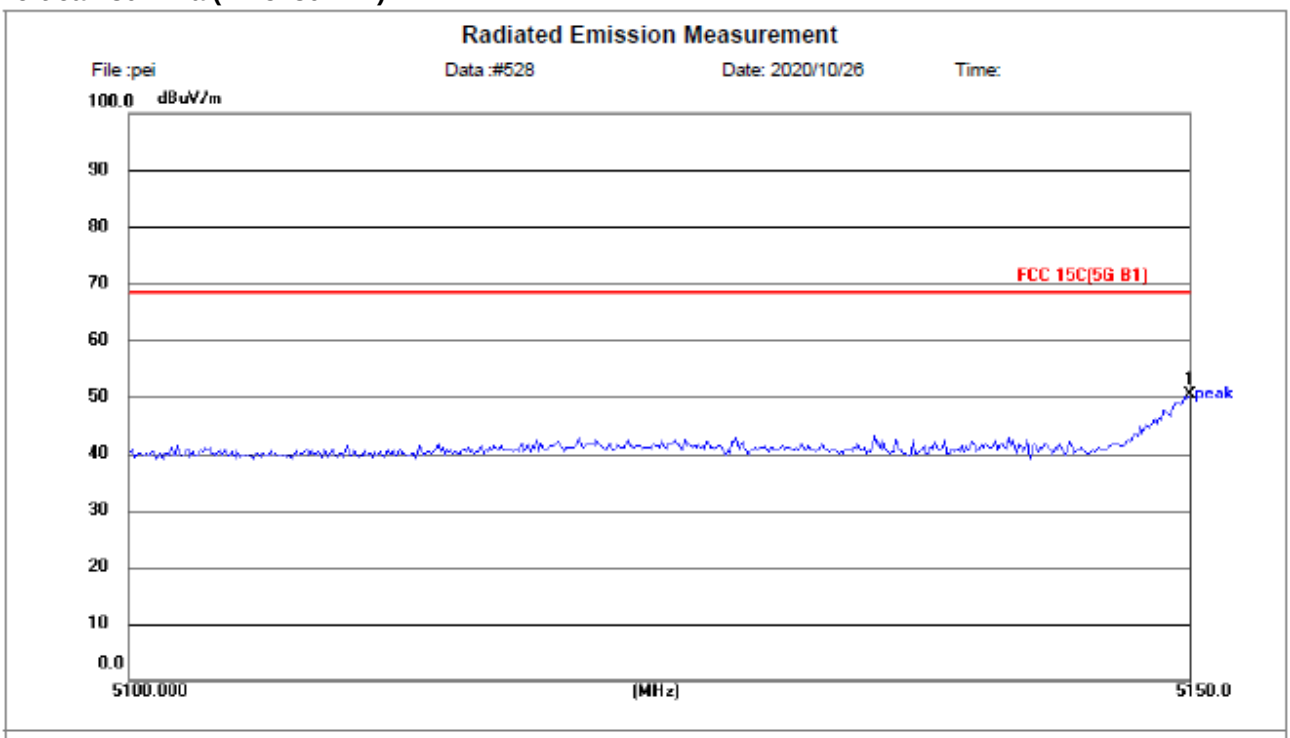
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	54.98	-3.99	50.99	68.23	17.24	peak			P	

Vertical: 802.11a (TX 5180MHz)



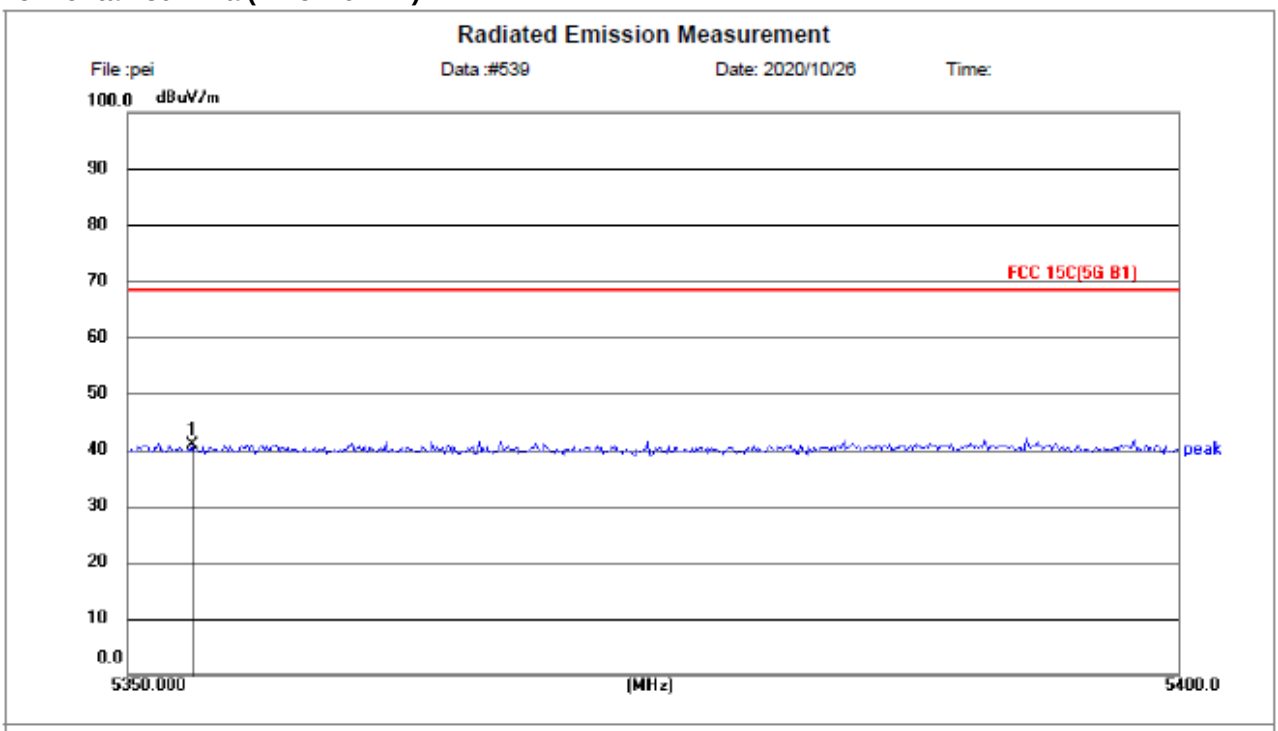
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	54.41	-3.99	50.42	68.23	17.81	peak			P	

Horizontal: 802.11a (TX 5240MHz)



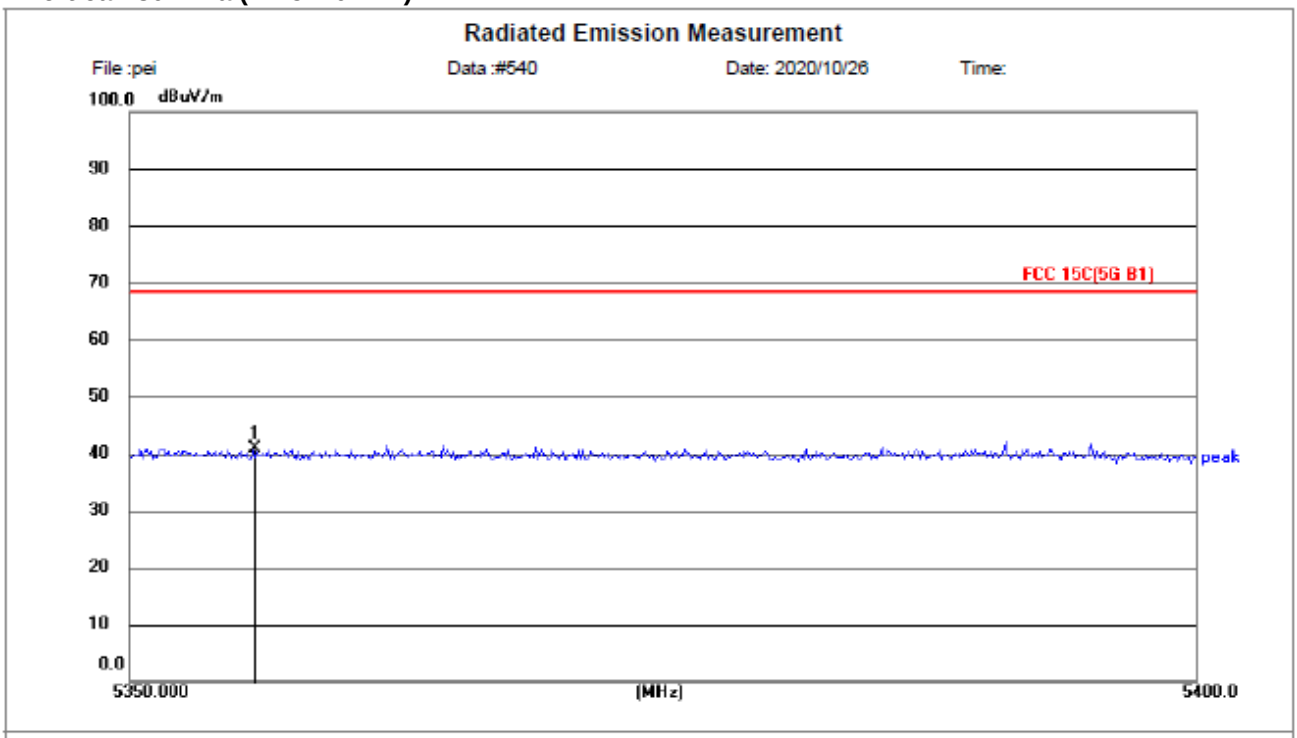
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5353.106	44.22	-3.29	40.93	68.23	27.30	peak			P	

Vertical: 802.11a (TX 5240MHz)



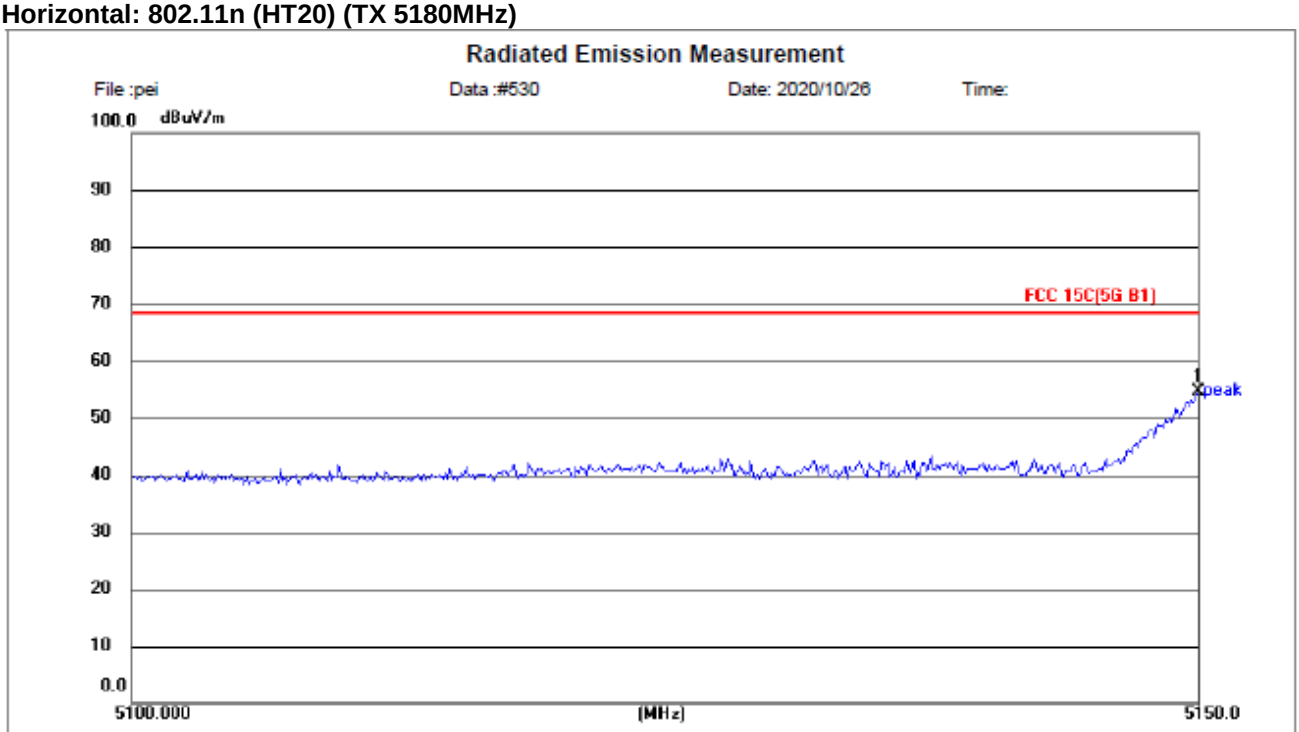
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5355.812	44.14	-3.29	40.85	68.23	27.38	peak			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



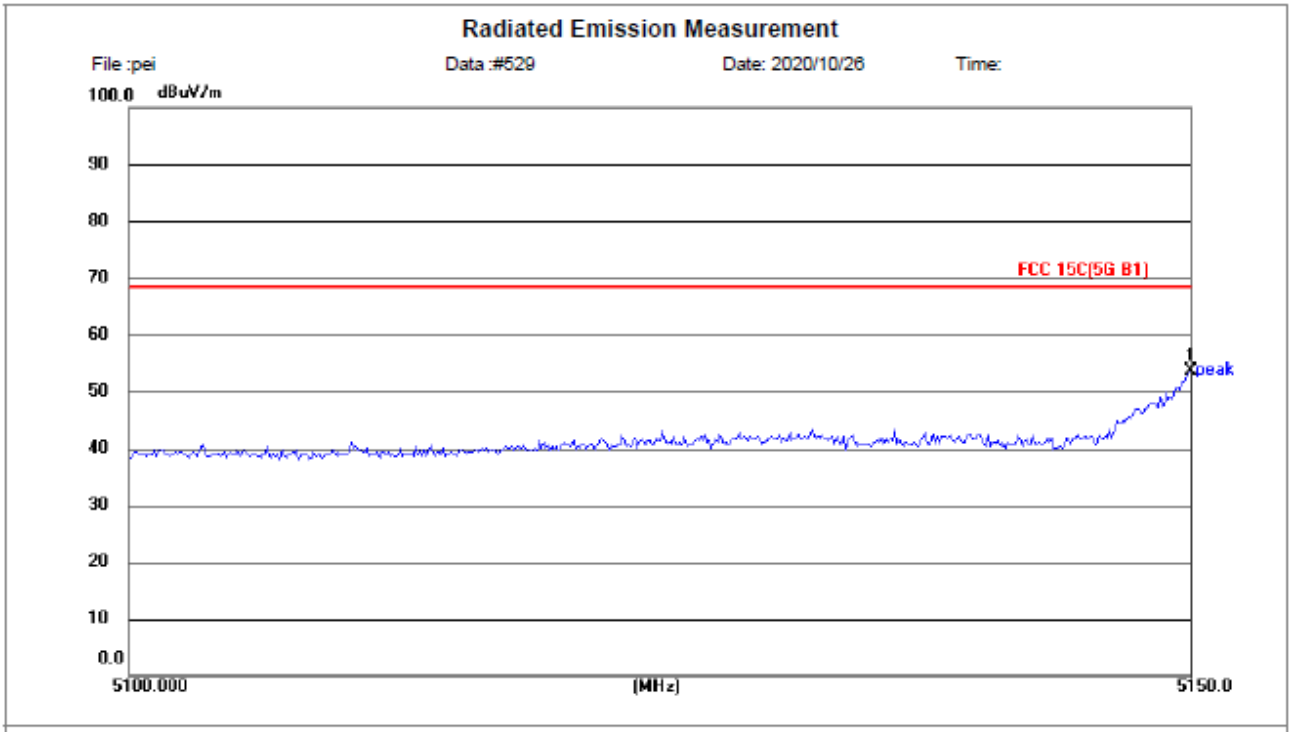
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	58.70	-3.99	54.71	68.23	13.52	peak			P	

Vertical: 802.11n (HT20) (TX 5180MHz)



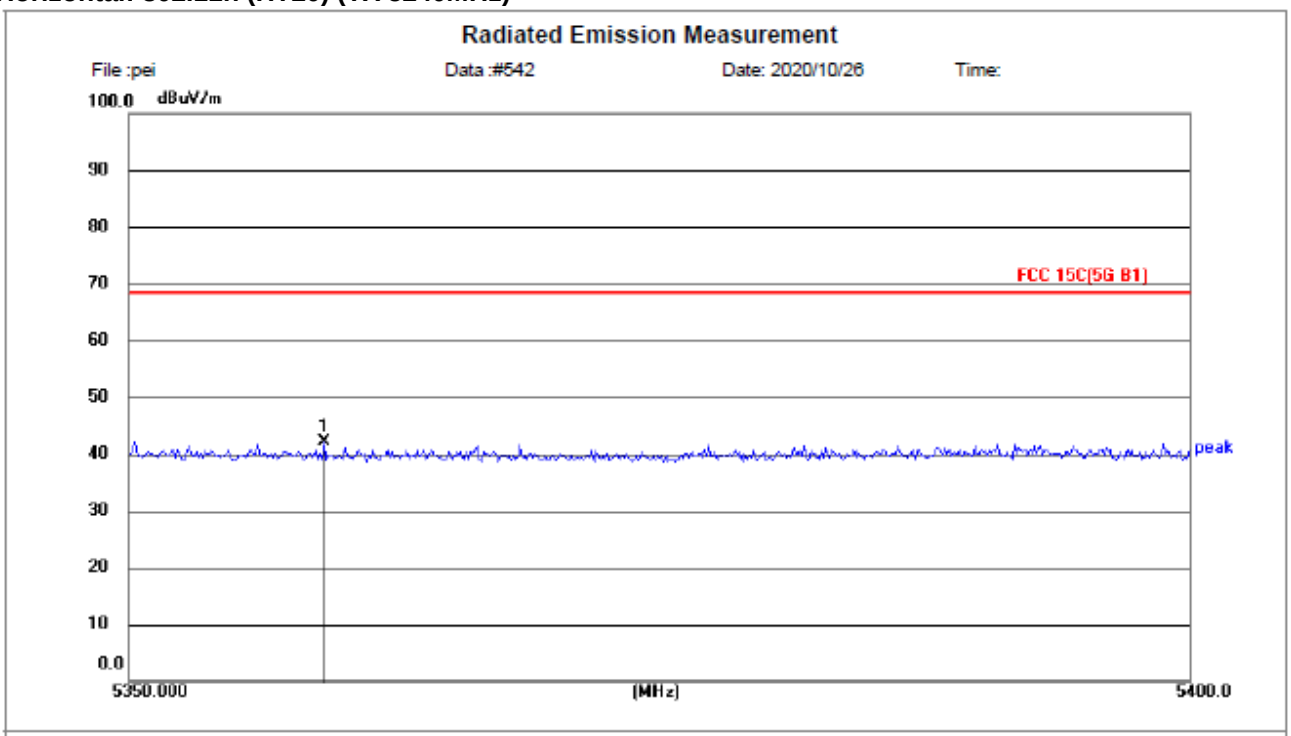
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5150.000	57.72	-3.99	53.73	68.23	14.50	peak			P	

Horizontal: 802.11n (HT20) (TX 5240MHz)



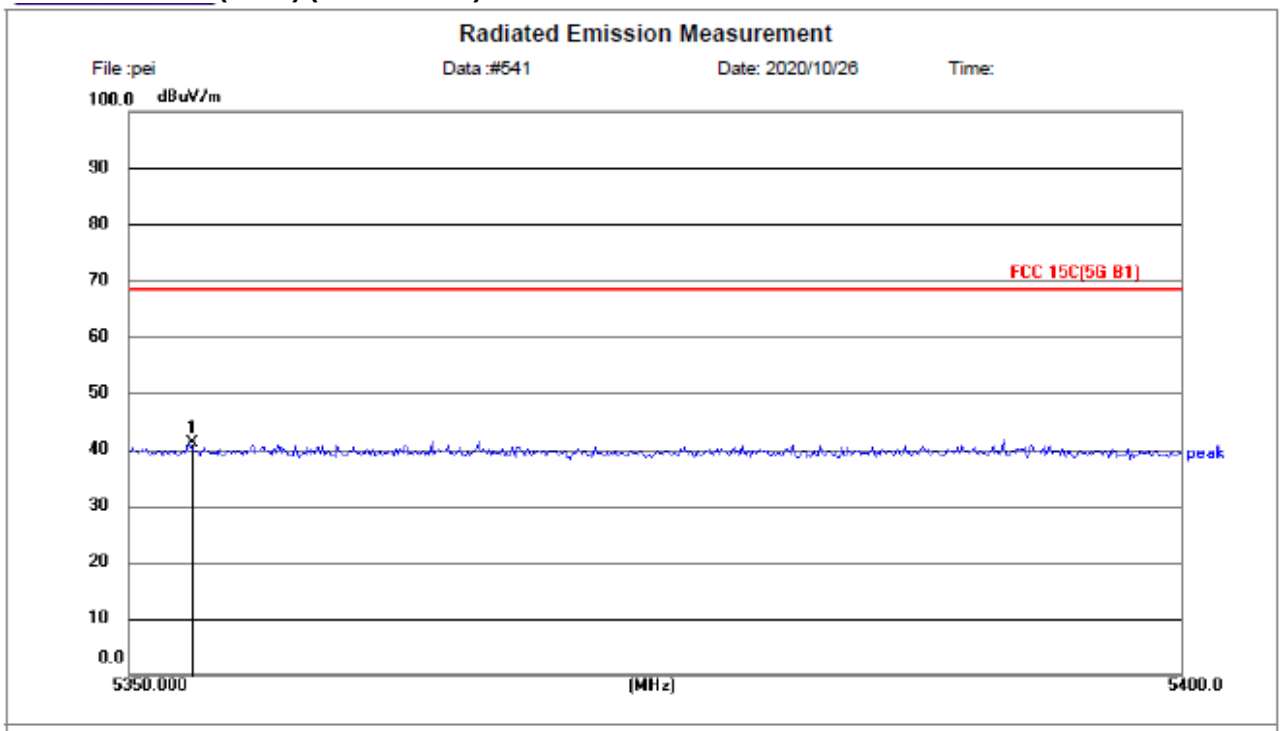
Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5359.218	45.30	-3.28	42.02	68.23	26.21	peak			P	

Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber
Limit: FCC 15C(5G B1)
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

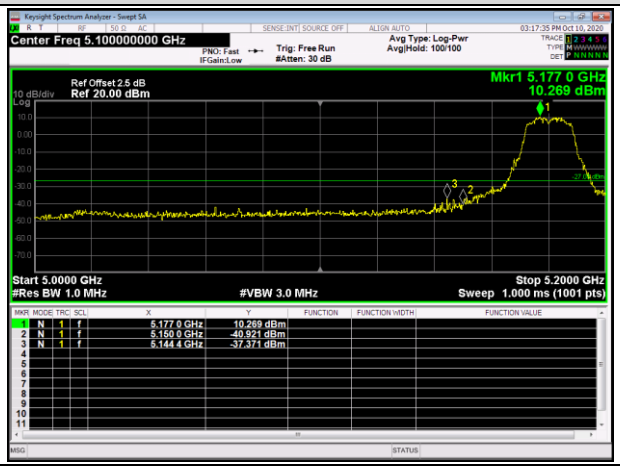
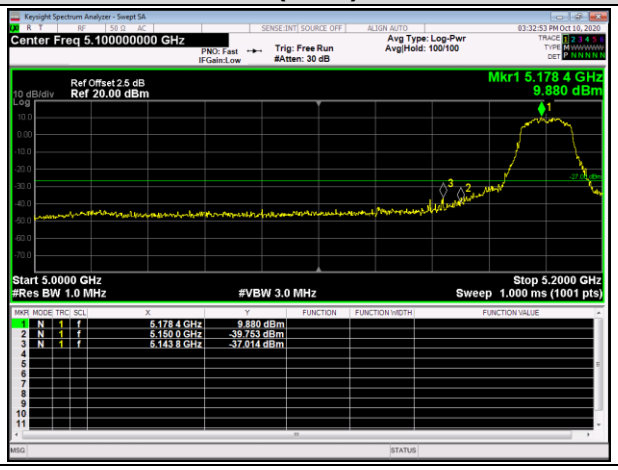
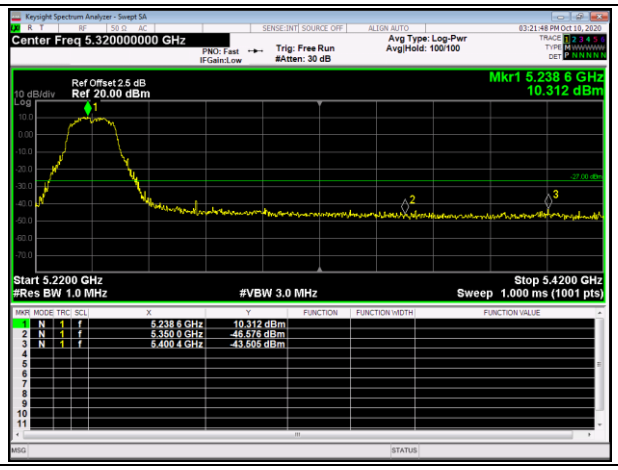
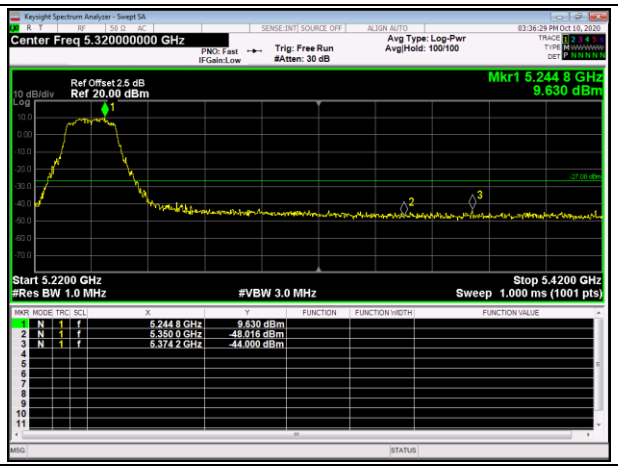
Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5352.906	44.34	-3.29	41.05	68.23	27.18	peak			P	

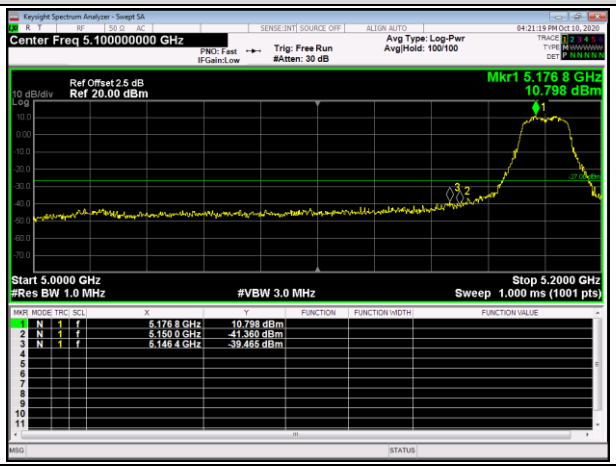
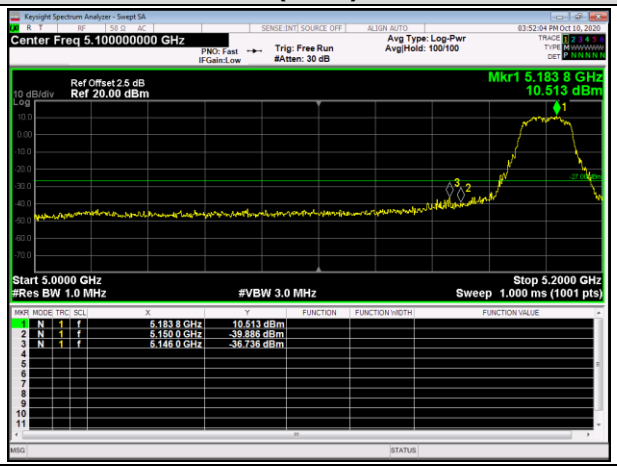
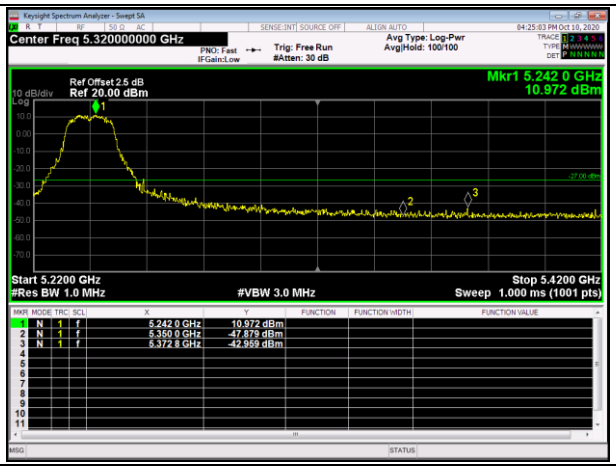
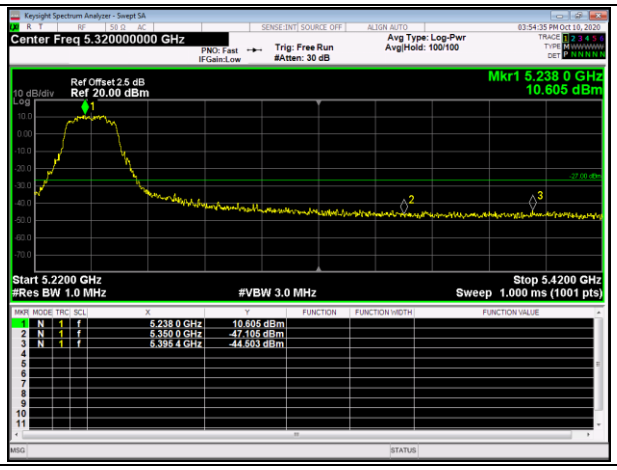
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

Conducted Band Edge Result

Antenna A

802.11a mode	802.11n(HT20) mode
	
5180	5180
	
5240	5240

Antenna B

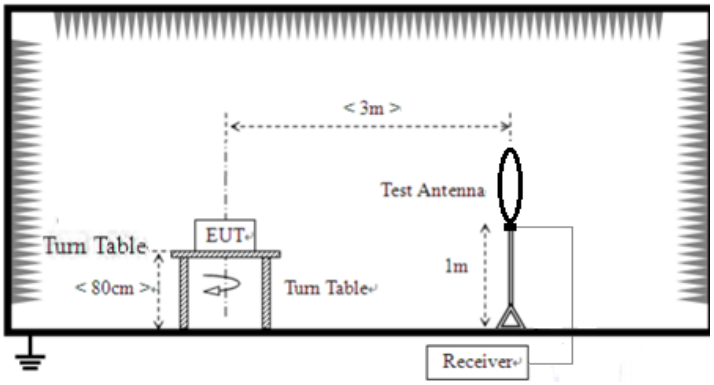
802.11a mode	802.11n(HT20) mode
	
5180	5180
	
5240	5240

Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

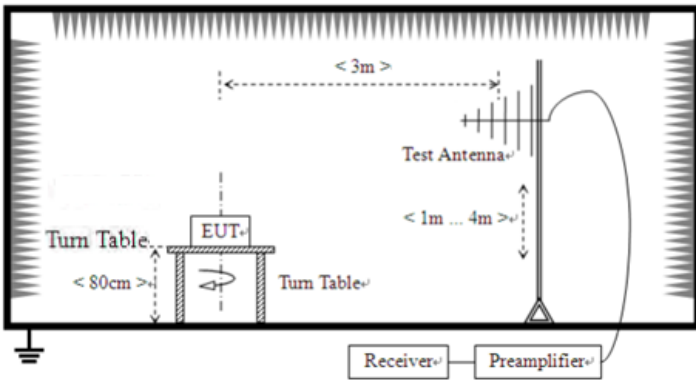
7.7 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>9kHz to 40GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td>9kHz-150KHz</td><td>Quasi-peak</td><td>200Hz</td><td>1kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>150kHz-30MHz</td><td>Quasi-peak</td><td>9kHz</td><td>30kHz</td><td>Quasi-peak Value</td></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (uV/m)</th><th>Value</th><th>Measurement Distance</th></tr>
<tr><td>0.009MHz-0.490MHz</td><td>2400/F(KHz)</td><td>QP</td><td>300m</td></tr>
<tr><td>0.490MHz-1.705MHz</td><td>24000/F(KHz)</td><td>QP</td><td>300m</td></tr>
<tr><td>1.705MHz-30MHz</td><td>30</td><td>QP</td><td>30m</td></tr>
<tr><td>30MHz-88MHz</td><td>100</td><td>QP</td><td rowspan="7">3m</td></tr>
<tr><td>88MHz-216MHz</td><td>150</td><td>QP</td></tr>
<tr><td>216MHz-960MHz</td><td>200</td><td>QP</td></tr>
<tr><td>960MHz-1GHz</td><td>500</td><td>QP</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>500</td><td>Average</td></tr>
<tr><td>5000</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:
1>.Below 1GHz test procedure:
1. The EUT was placed on the top of a rotating table (0.8m for below 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.
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 rotable table was turned from 0 degrees to 360</td></tr>
</table>

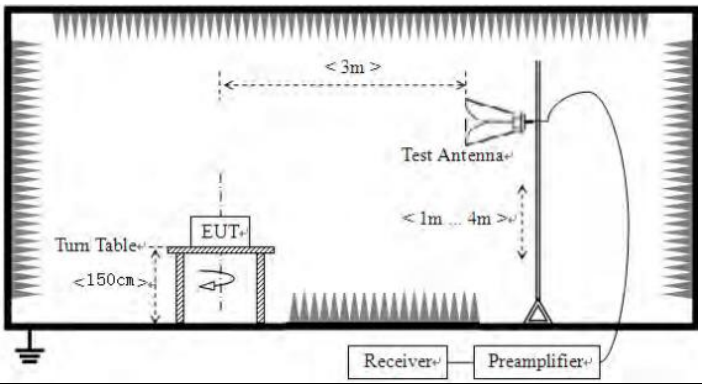
	degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would 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. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above,the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider. 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver. 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test. 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	26 °C	Humid.:	54%	Press.:	1012mbar
Test voltage:	DC 5V					
Test results:	Pass					

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

Please refer to following plots of the worst case

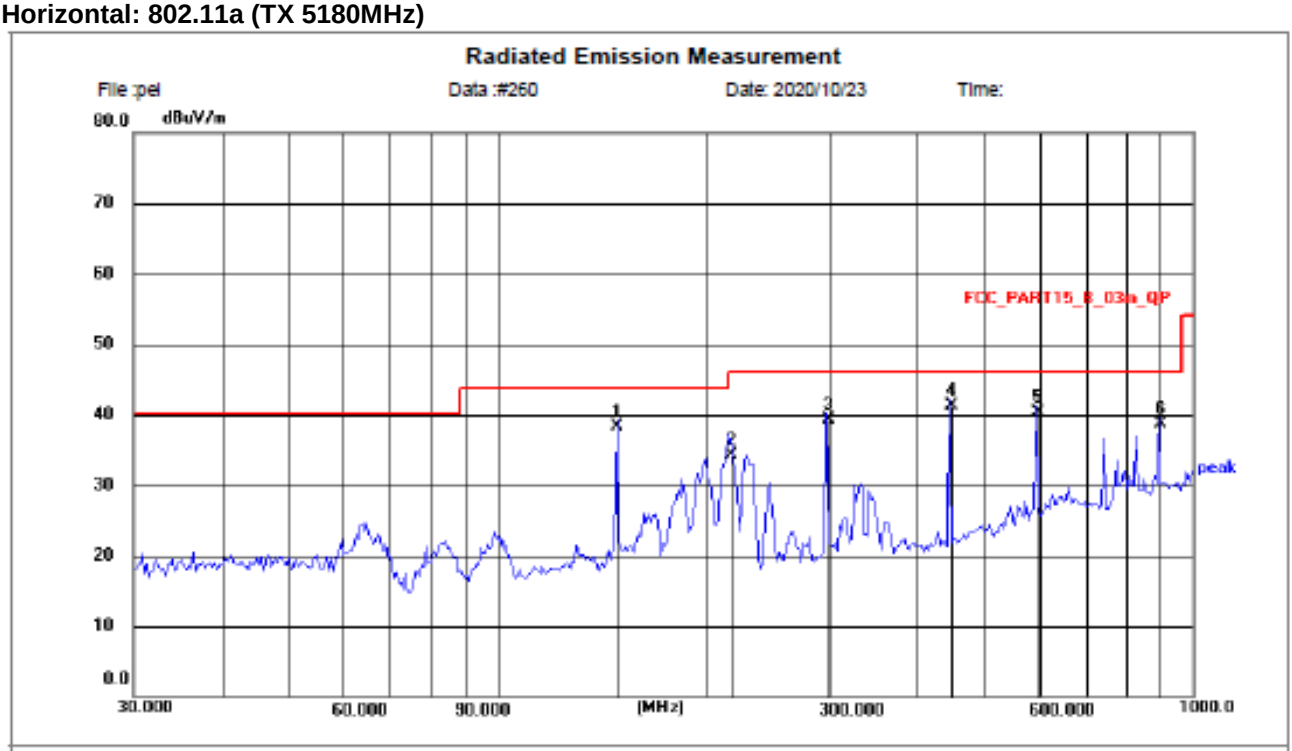
Note: We tested 802.11a/n mode the all data rate and recorded the worst case data for this channel to be 6Mbps for 802.11a mode and MCS0 for 802.11n mode.

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30MHz~ 1GHz

Horizontal: 802.11a (TX 5180MHz)



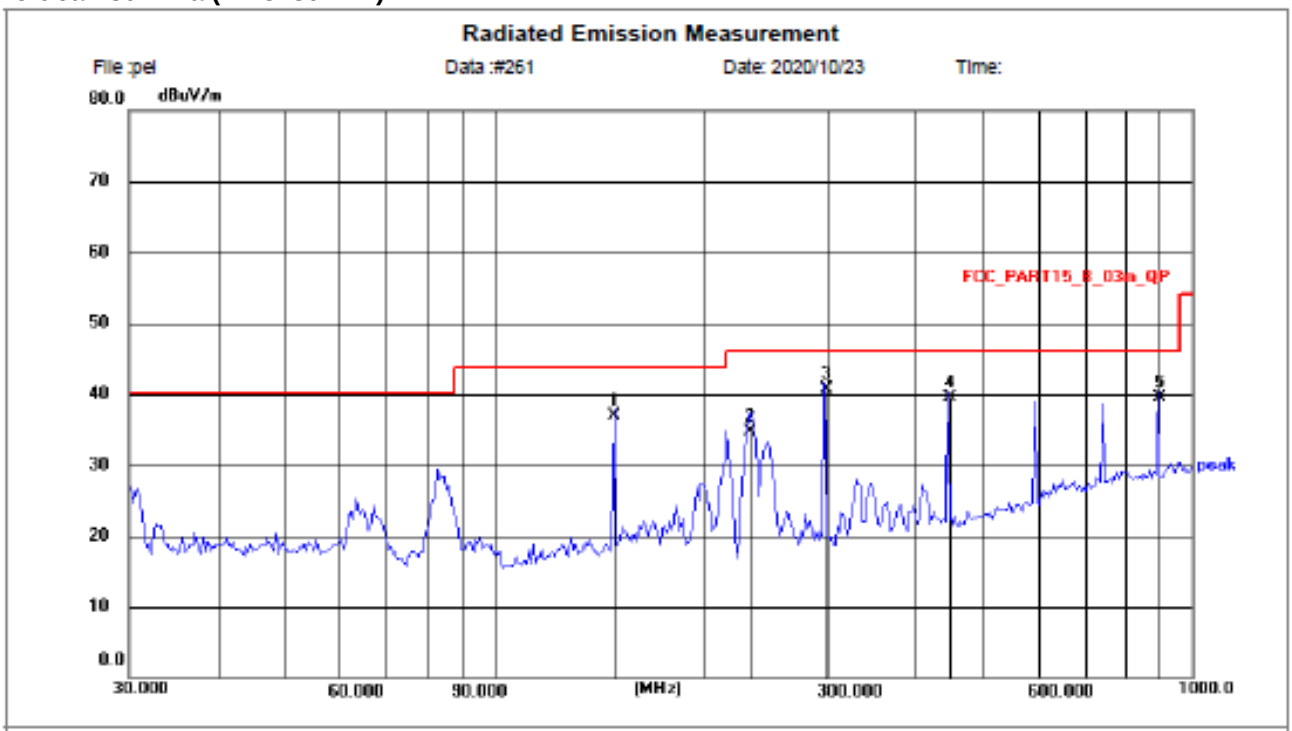
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	22.59	15.66	38.25	43.50	5.25	QP	124	254	P	
2	215.2678	22.00	12.35	34.35	43.50	9.15	QP	185	325	P	
3	297.2241	24.58	14.69	39.27	46.00	6.73	QP	204	71	P	
4 *	446.4141	23.36	17.96	41.32	46.00	4.68	QP	204	86	P	
5	595.1329	19.94	20.42	40.36	46.00	5.64	QP	186	253	P	
6	893.8566	14.71	23.99	38.70	46.00	7.30	QP	175	58	P	

Vertical: 802.11a (TX 5180MHz)



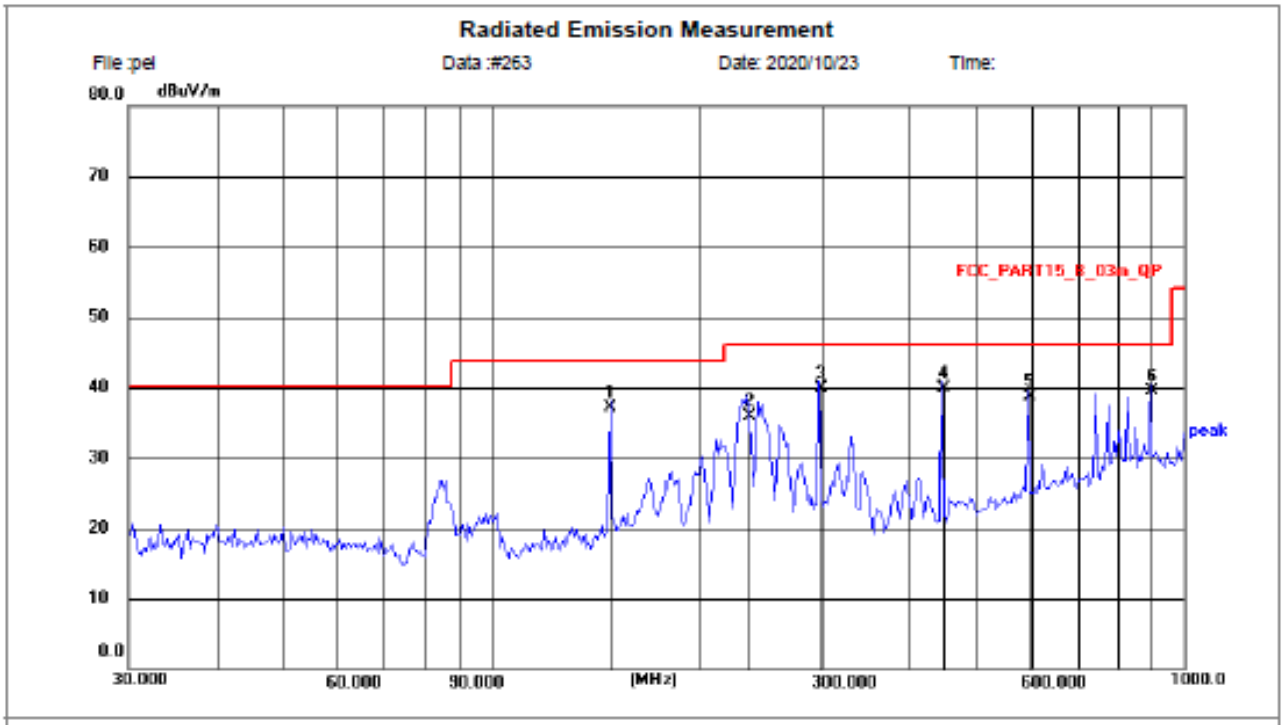
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	21.32	15.66	36.98	43.50	6.52	QP	107	360	P	
2	232.5318	21.75	13.05	34.80	46.00	11.20	QP	104	254	P	
3 *	297.2240	26.07	14.69	40.76	46.00	5.24	QP	112	100	P	
4	446.4140	21.59	17.96	39.55	46.00	6.45	QP	105	131	P	
5	893.8566	15.56	23.99	39.55	46.00	6.45	QP	185	14	P	

Horizontal: 802.11a (TX 5240MHz)



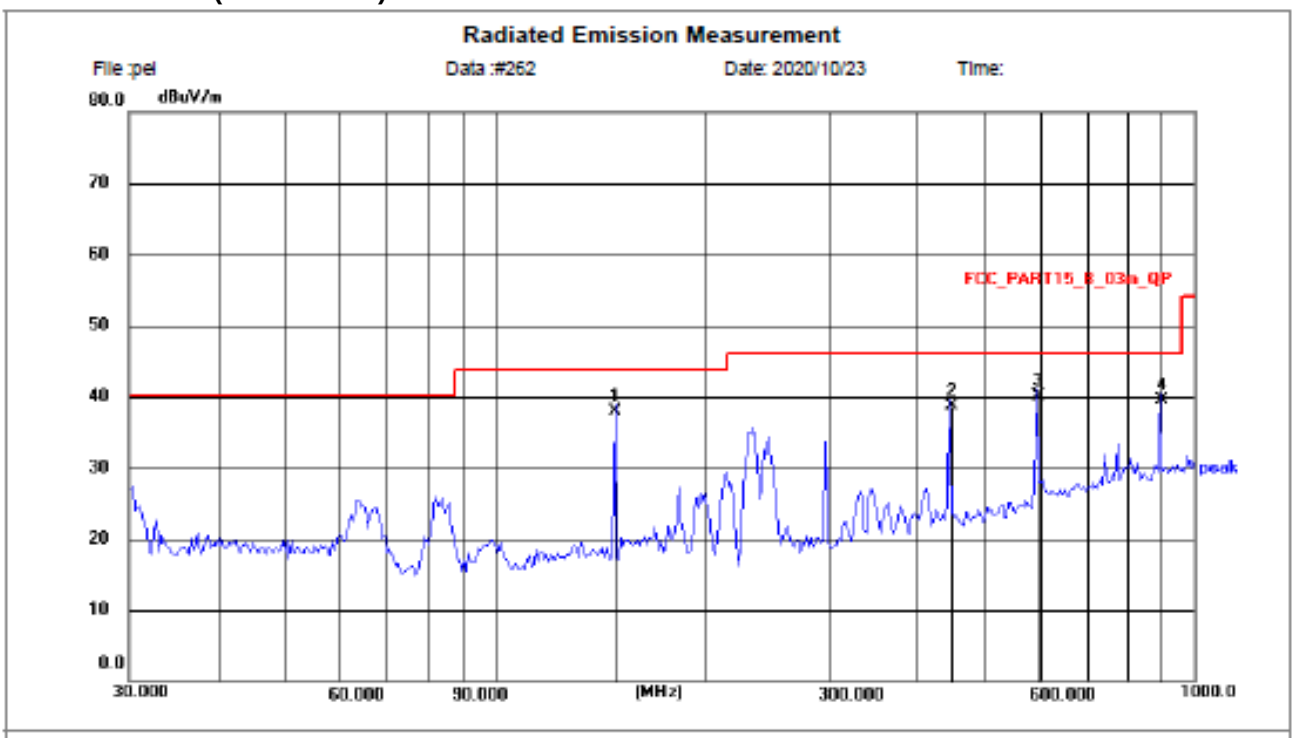
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	148.4410	21.44	15.66	37.10	43.50	6.40	QP	258	44	P	
2	234.1683	22.70	13.11	35.81	46.00	10.19	QP	194	135	P	
3	297.2240	25.14	14.69	39.83	46.00	6.17	QP	124	249	P	
4 *	446.4140	21.97	17.96	39.93	46.00	6.07	QP	115	124	P	
5	595.1327	18.25	20.42	38.67	46.00	7.33	QP	142	39	P	
6	893.8566	15.56	23.99	39.55	46.00	6.45	QP	105	188	P	

Vertical: 802.11a (TX 5240MHz)



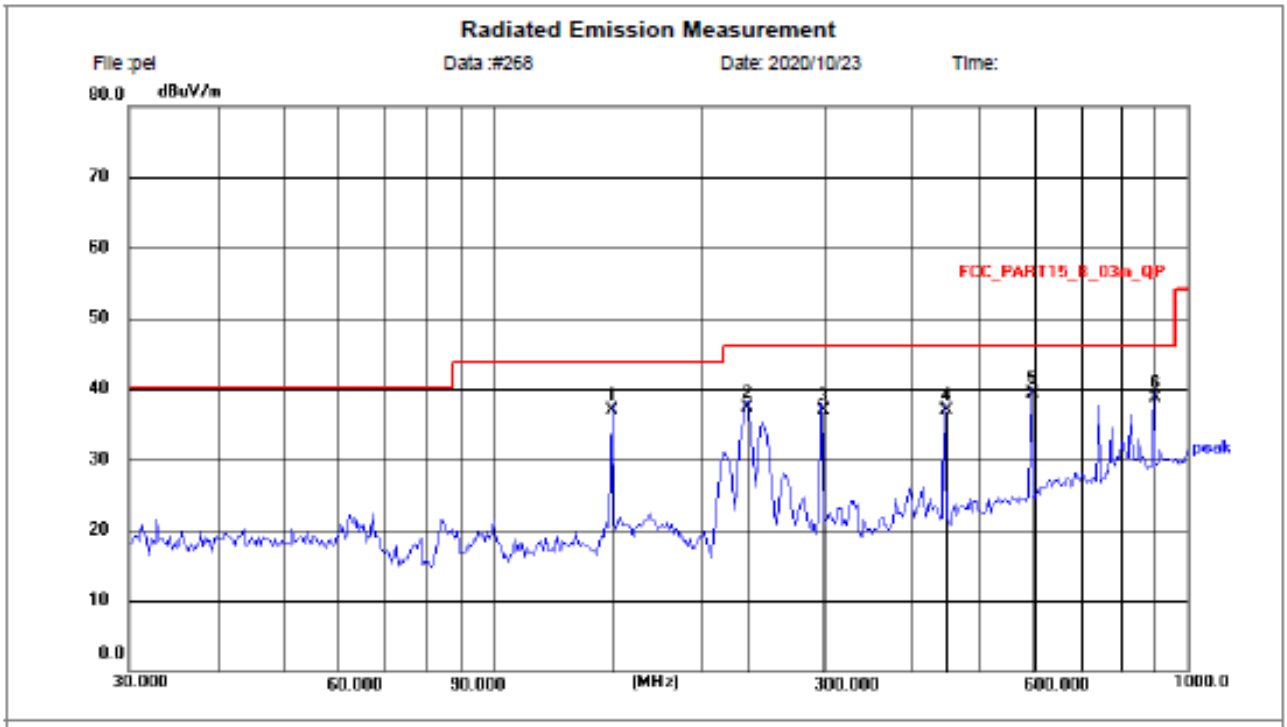
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	22.15	15.66	37.81	43.50	5.69	QP	210	244	P	
2	446.4141	20.82	17.96	38.78	46.00	7.22	QP	124	54	P	
3	595.1329	19.77	20.42	40.19	46.00	5.81	QP	114	152	P	
4	893.8567	15.54	23.99	39.53	46.00	6.47	QP	120	200	P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



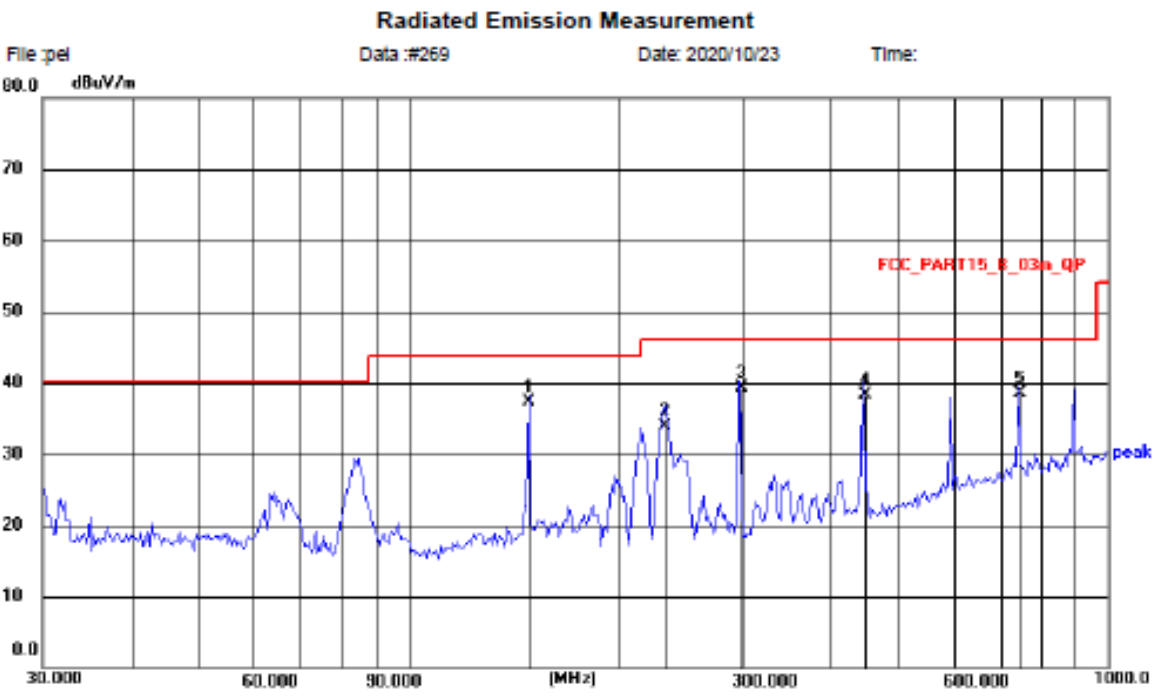
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	21.19	15.66	36.85	43.50	6.65	QP	184	107	P	
2	232.5318	24.18	13.05	37.23	46.00	8.77	QP	100	158	P	
3	297.2240	22.26	14.69	36.95	46.00	9.05	QP	134	24	P	
4	446.4140	18.90	17.96	36.86	46.00	9.14	QP	110	184	P	
5	595.1327	18.81	20.42	39.23	46.00	6.77	QP	135	241	P	
6	893.8566	14.77	23.99	38.76	46.00	7.24	QP	152	145	P	

Vertical: 802.11n (HT20) (TX 5180MHz)



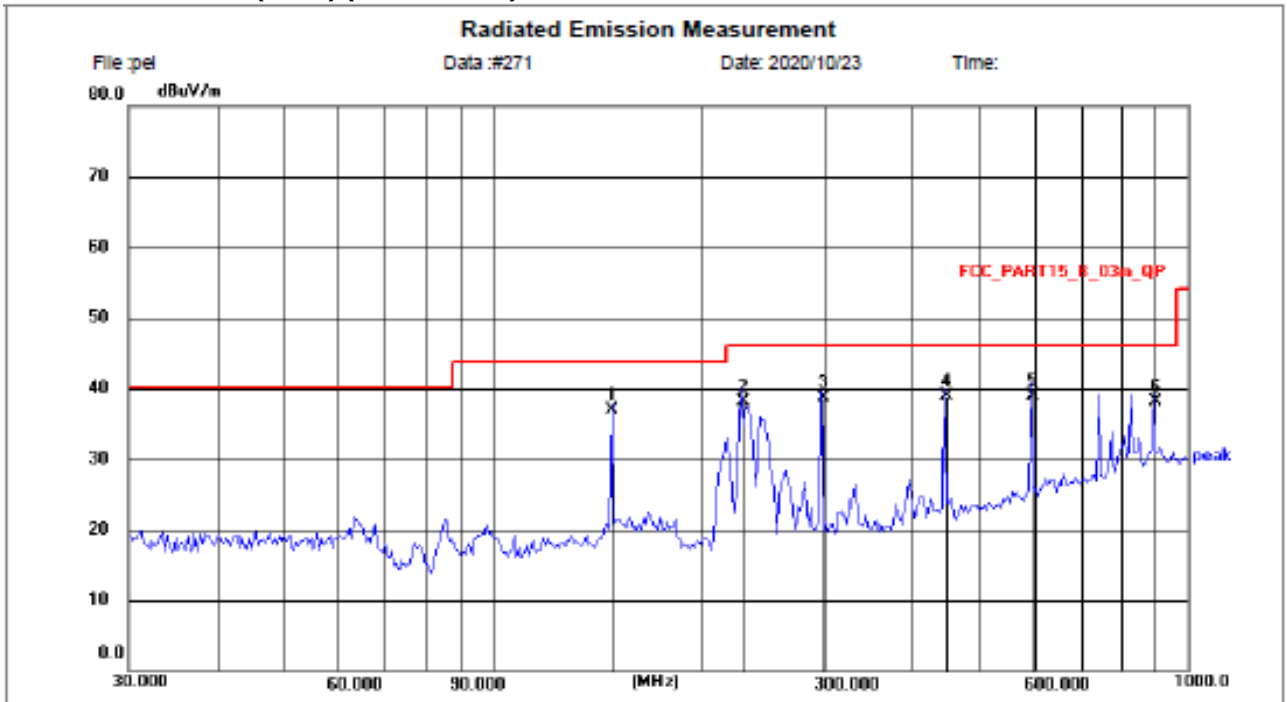
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	21.71	15.66	37.37	43.50	6.13	QP	142	227	P	
2	232.5318	20.81	13.05	33.86	46.00	12.14	QP	134	52	P	
3	297.2240	24.69	14.69	39.38	46.00	6.62	QP	115	10	P	
4	446.4140	20.34	17.96	38.30	46.00	7.70	QP	102	354	P	
5	744.8660	16.07	22.51	38.58	46.00	7.42	QP	140	313	P	

Horizontal: 802.11n (HT20) (TX 5240MHz)



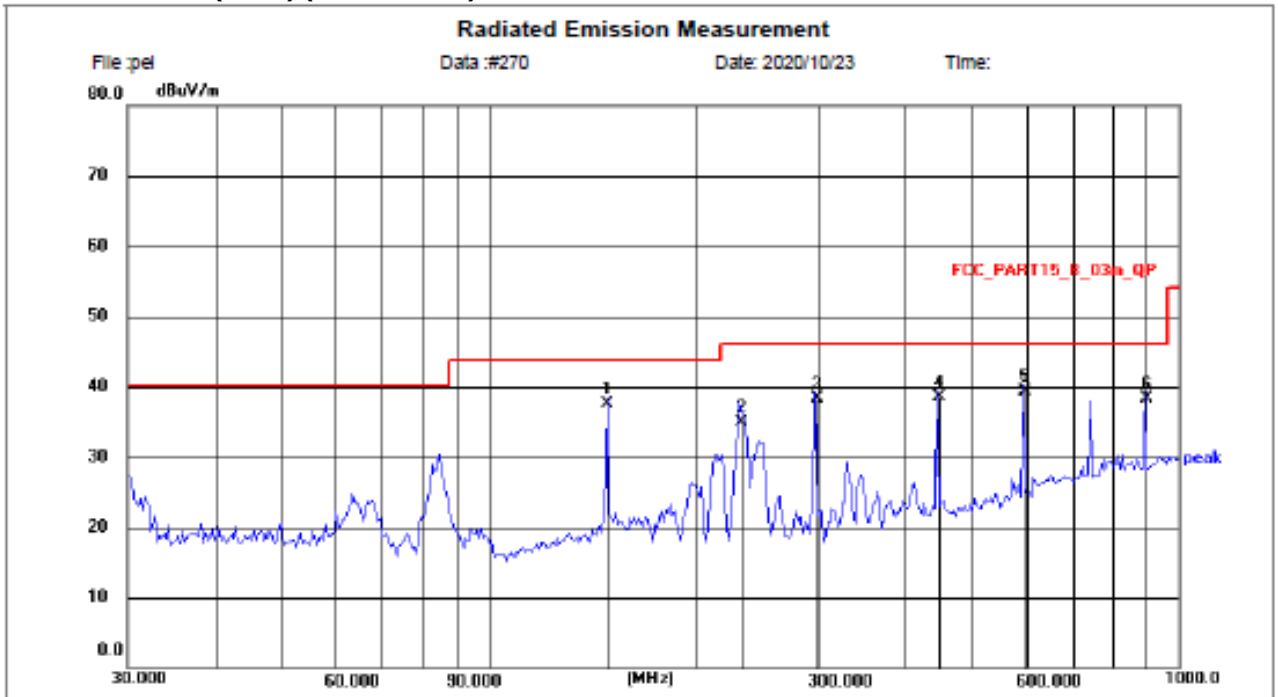
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	21.17	15.66	36.83	43.50	6.67	QP	255	74	P	
2	227.6906	25.34	12.85	38.19	46.00	7.81	QP	185	63	P	
3	297.2240	24.07	14.69	38.76	46.00	7.24	QP	178	235	P	
4	446.4140	20.94	17.96	38.90	46.00	7.10	QP	150	358	P	
5	595.1327	18.44	20.42	38.86	46.00	7.14	QP	154	355	P	
6	893.8566	14.19	23.99	38.18	46.00	7.82	QP	151	35	P	

Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

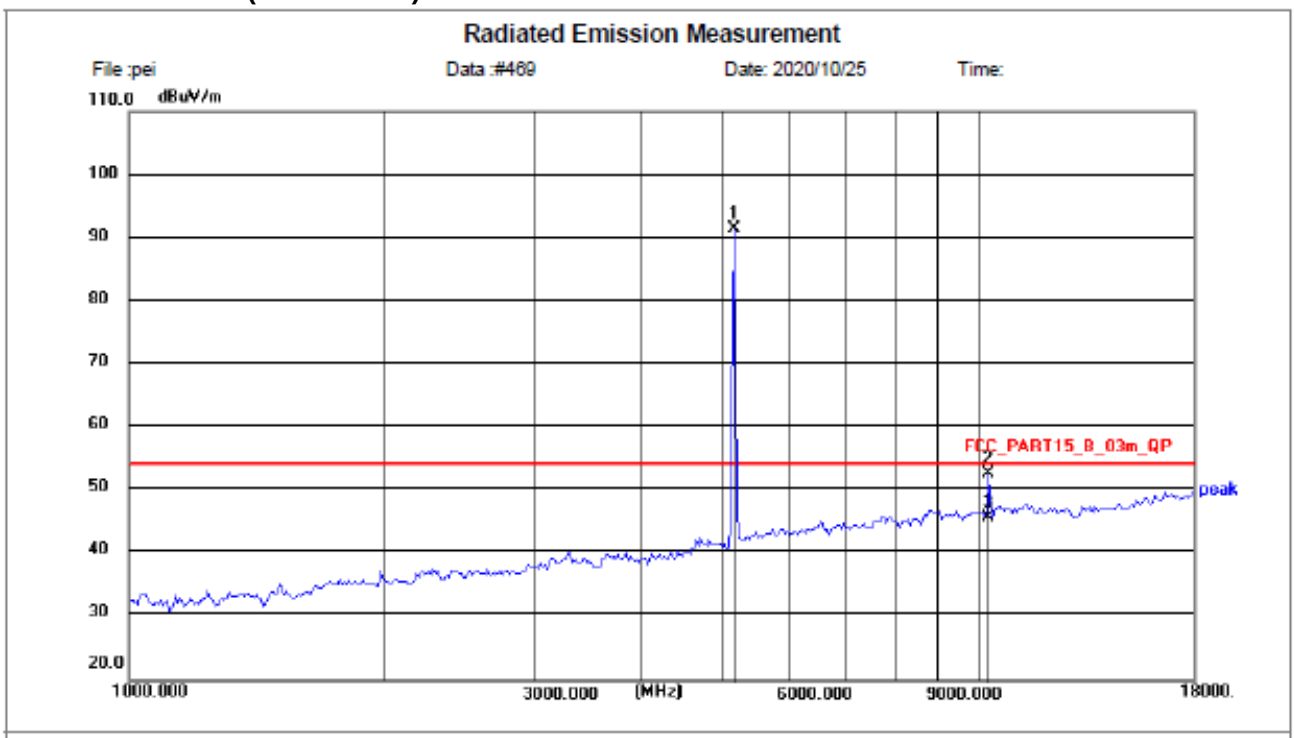
Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	148.4410	21.80	15.66	37.46	43.50	6.04	QP	135	46	P	
2	230.9068	21.85	12.98	34.83	46.00	11.17	QP	124	322	P	
3	297.2241	23.68	14.69	38.37	46.00	7.63	QP	115	14	P	
4	446.4141	20.47	17.96	38.43	46.00	7.57	QP	179	38	P	
5	595.1329	18.79	20.42	39.21	46.00	6.79	QP	166	248	P	
6	893.8567	14.39	23.99	38.38	46.00	7.62	QP	170	113	P	

1GHz~ 18GHz

Horizontal: 802.11a (TX 5180MHz)



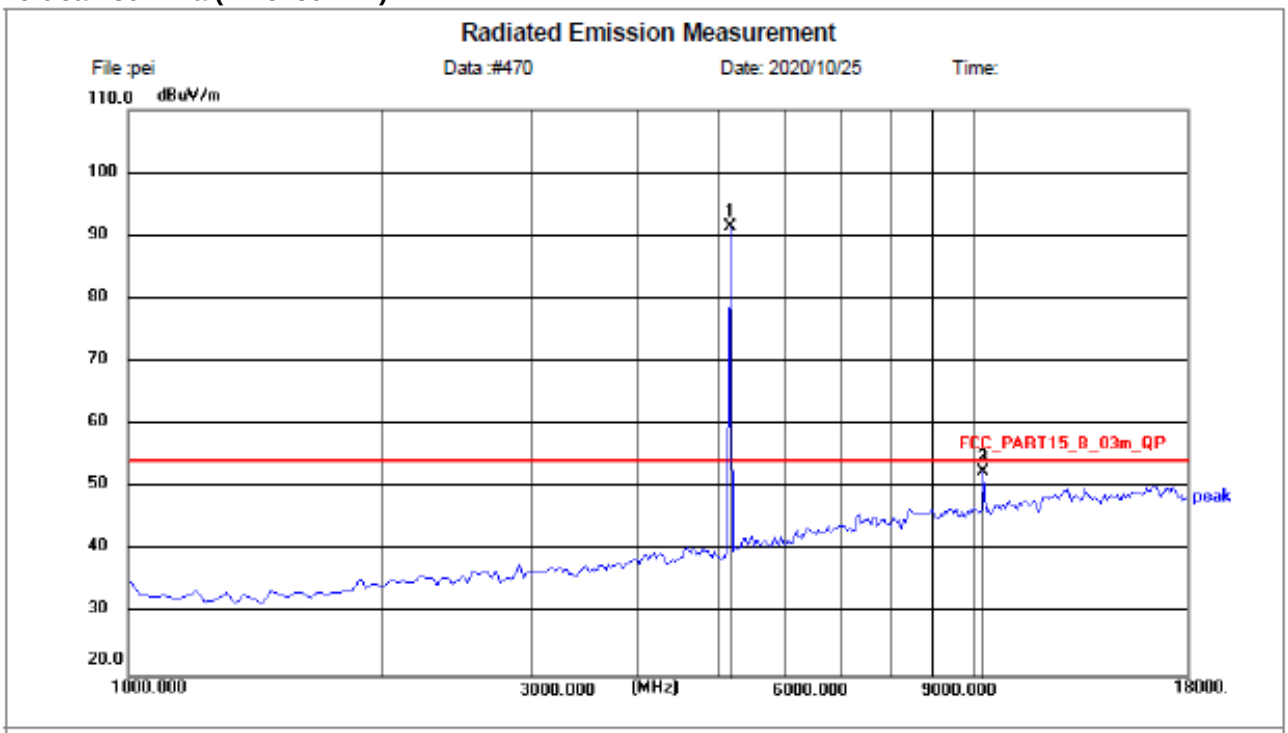
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	95.40	-3.89	91.51	/	/	peak			/	
2	10360.236	42.32	10.34	52.66	74.00	21.34	peak			P	
3	10360.236	35.45	10.34	45.79	54.00	8.21	AVG			P	

Vertical: 802.11a (TX 5180MHz)



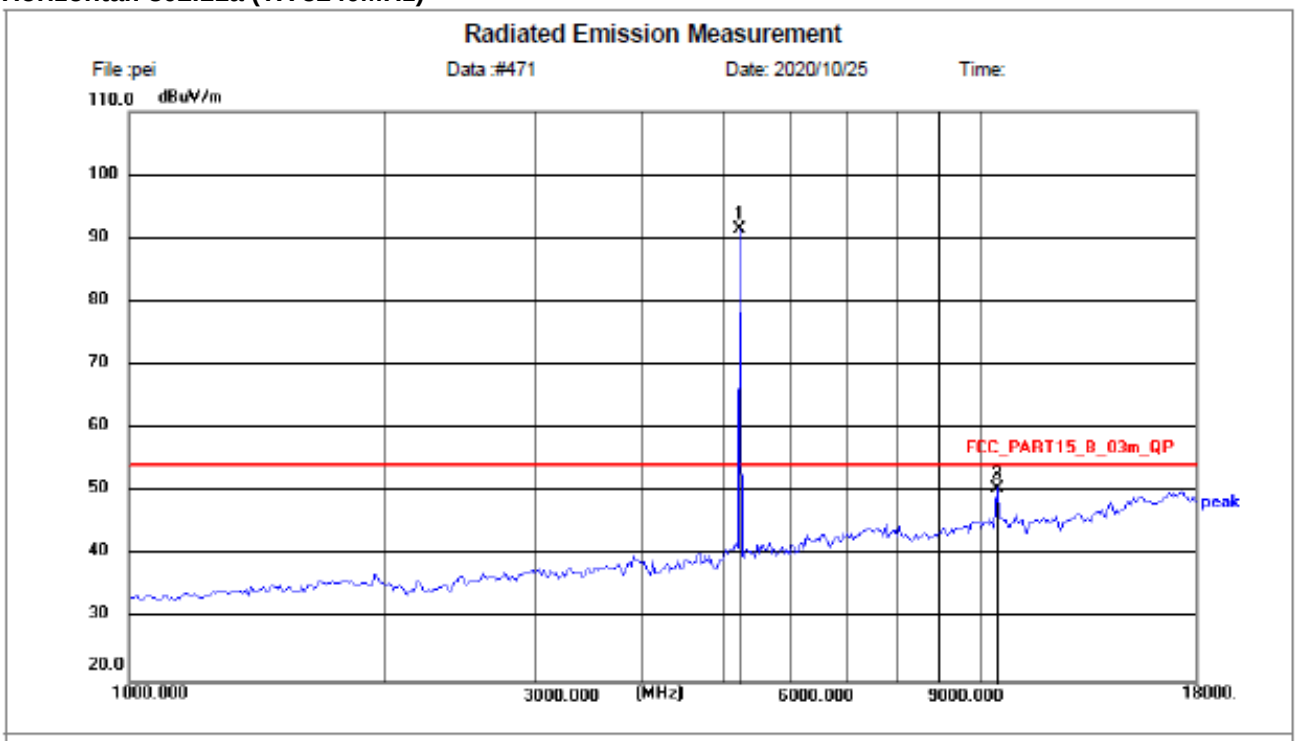
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	95.31	-3.89	91.42	/	/	peak			/	
2	10360.246	42.10	10.34	52.44	74.00	21.56	peak			P	
3	10368.246	35.29	10.37	52.66	54.00	8.34	AVG			P	

Horizontal: 802.11a (TX 5240MHz)



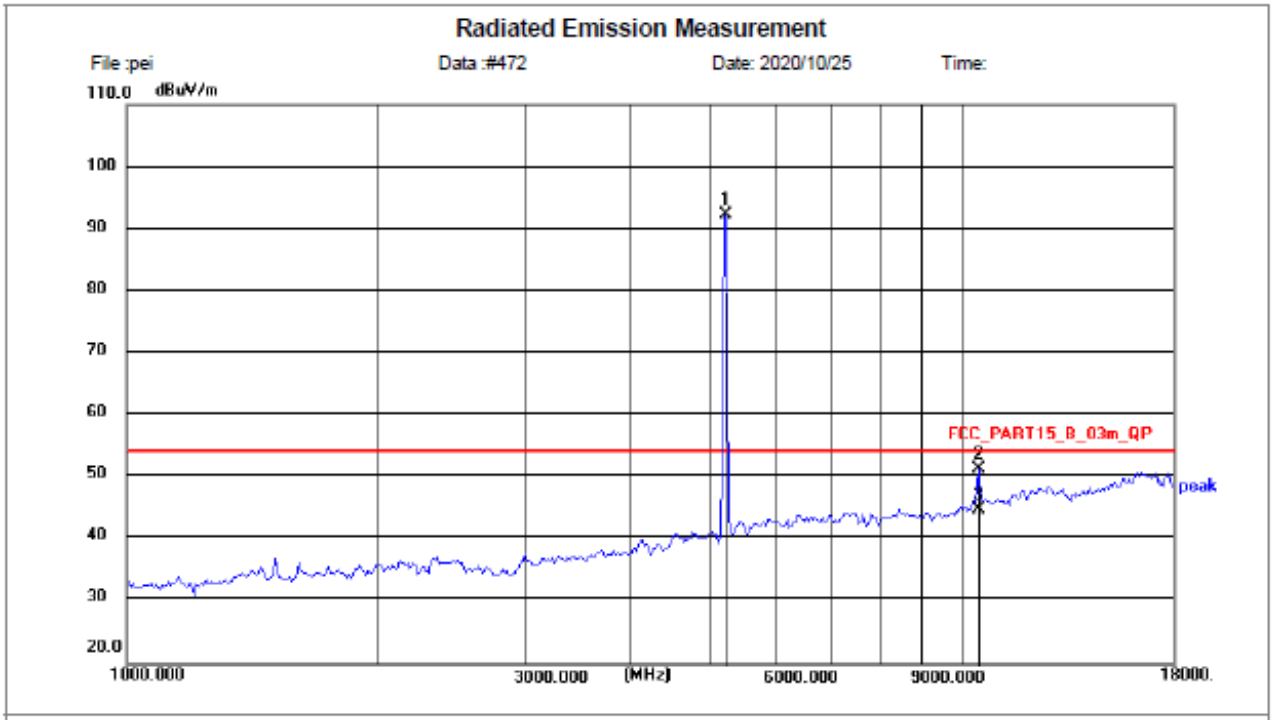
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	95.07	-3.68	91.39	/	/	/			/	
2	10480.315	39.91	10.69	50.60	74.00	23.40	peak			P	
3	10480.315	34.25	10.69	44.94	54.00	9.06	AVG			P	

Vertical: 802.11a (TX 5240MHz)



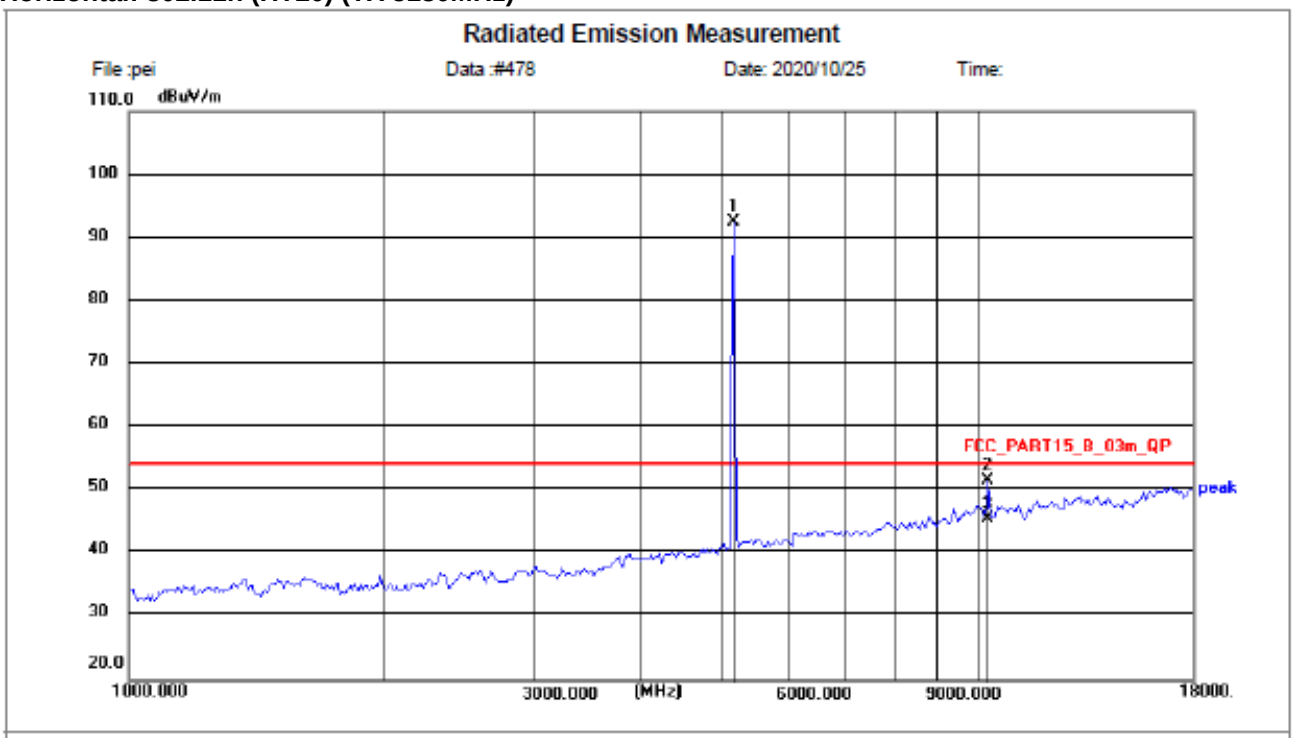
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	96.00	-3.68	92.32	/	/	peak			/	
2	10480.330	40.61	10.69	51.30	74.00	22.70	peak			P	
3	10480.330	34.25	10.69	44.94	54.00	9.06	AVG			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



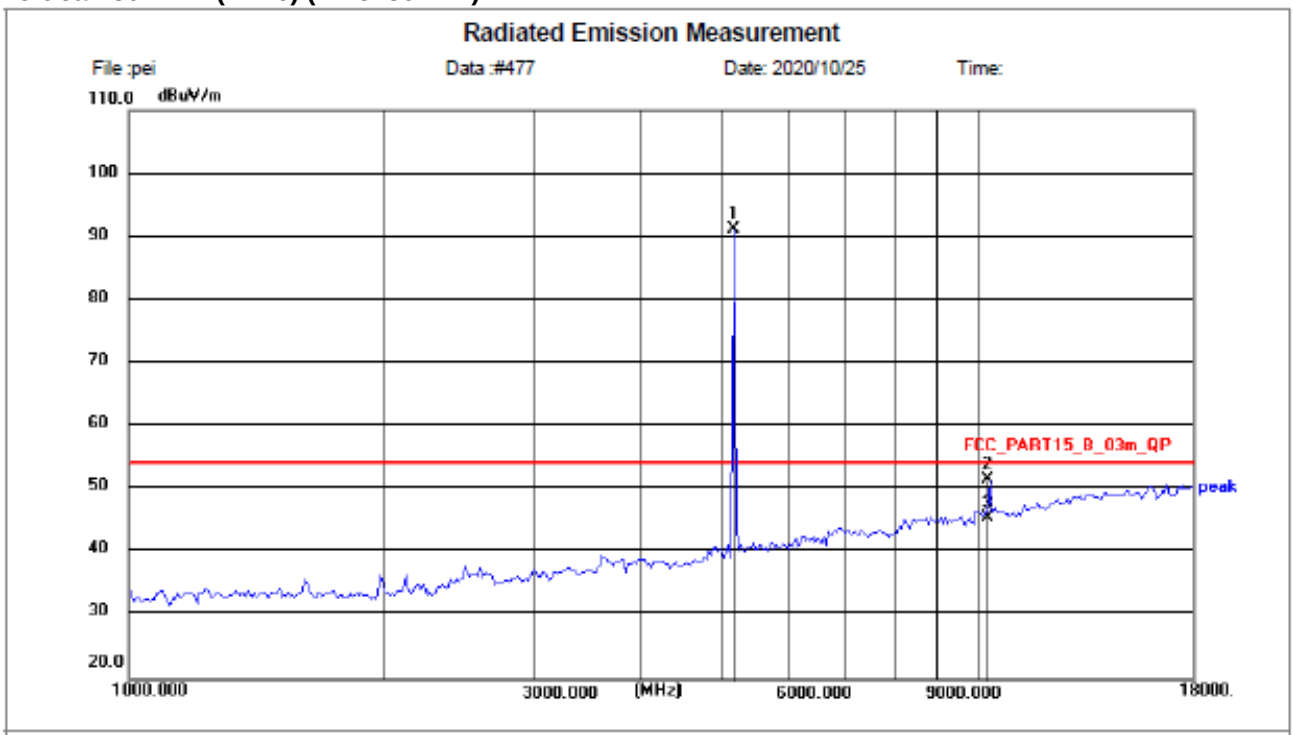
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	96.44	-3.89	92.55	/	/	peak			/	
2	10360.225	41.28	10.34	51.62	74.00	22.38	peak			P	
3	10360.225	35.30	10.34	45.64	54.00	8.36	AVG			P	

Vertical: 802.11n (HT20) (TX 5180MHz)



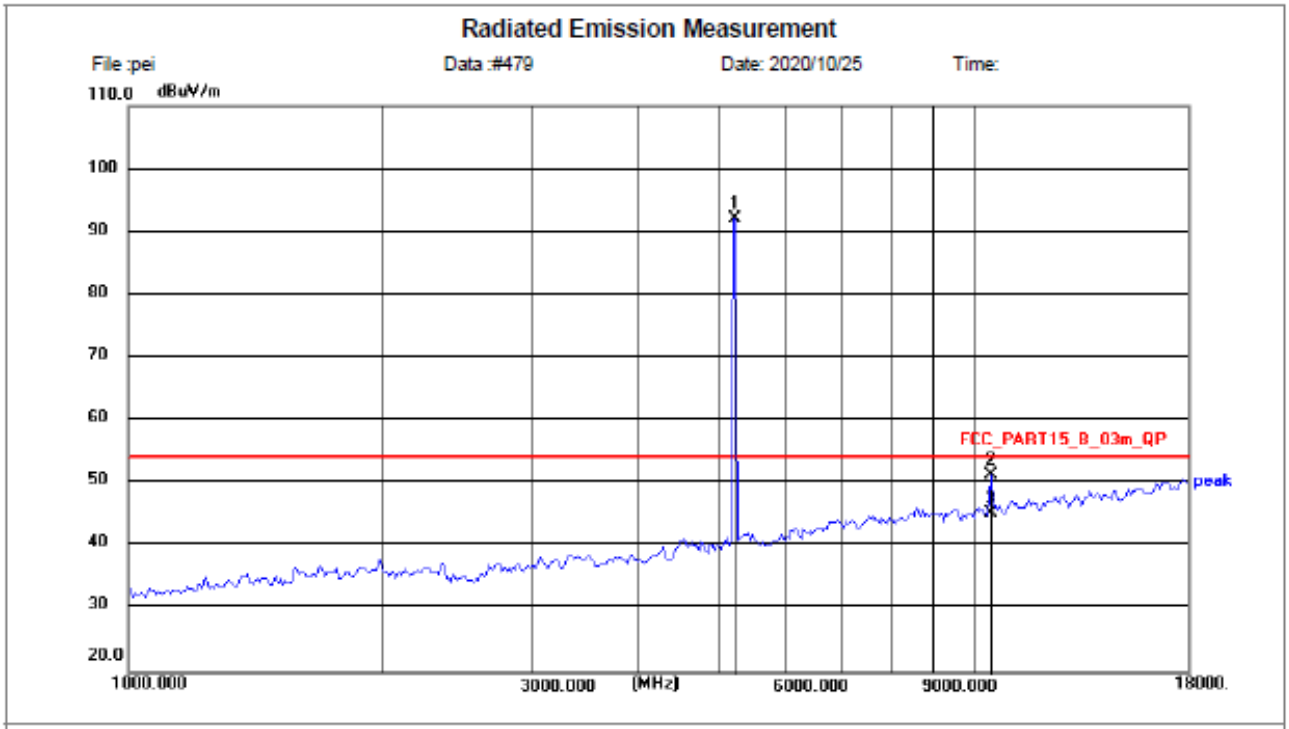
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5180.000	95.19	-3.89	91.30	/	/	peak			/	
2	10360.143	41.28	10.34	51.62	74.00	22.38	peak			P	
3	10360.143	35.25	10.34	45.59	54.00	8.41	peak			P	

Horizontal: 802.11n (HT20) (TX 5240MHz)



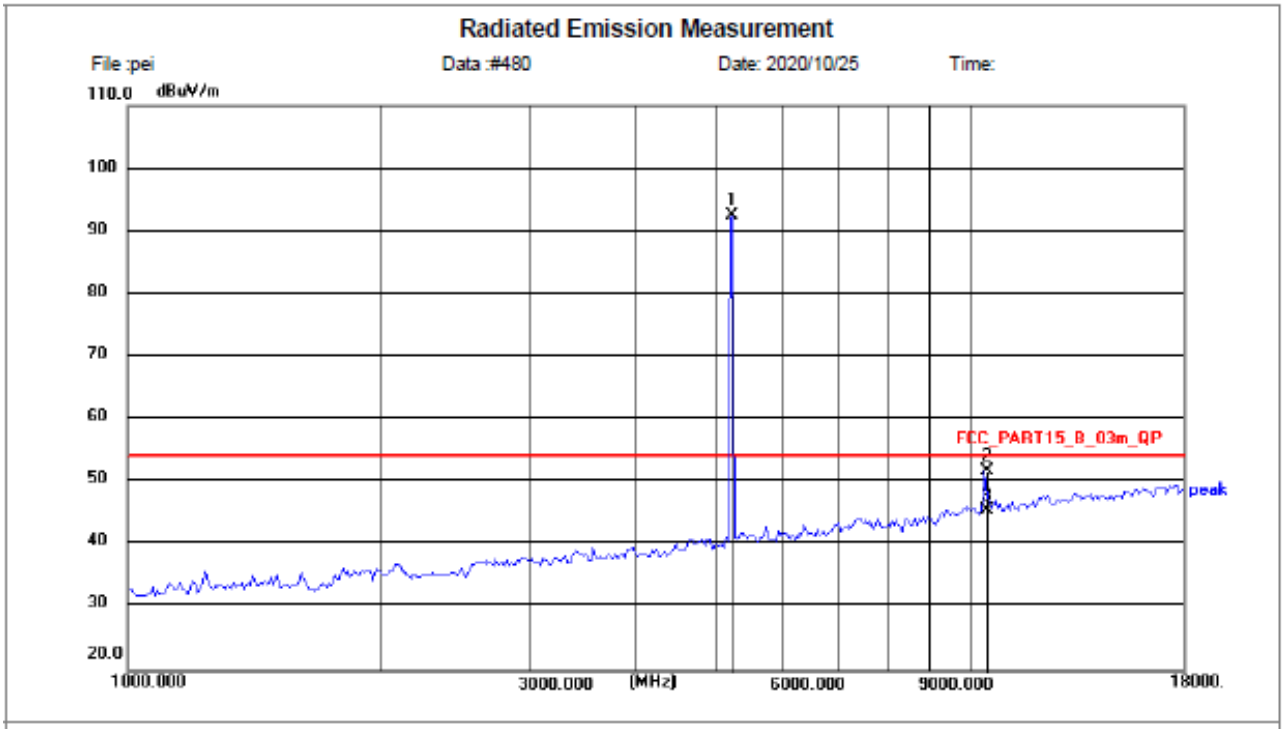
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	95.88	-3.68	92.20	/	/	peak			/	
2	10480.249	40.63	10.69	51.32	74.00	22.68	peak			P	
3	10480.249	34.52	10.69	45.21	54.00	8.79	AVG			P	

Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

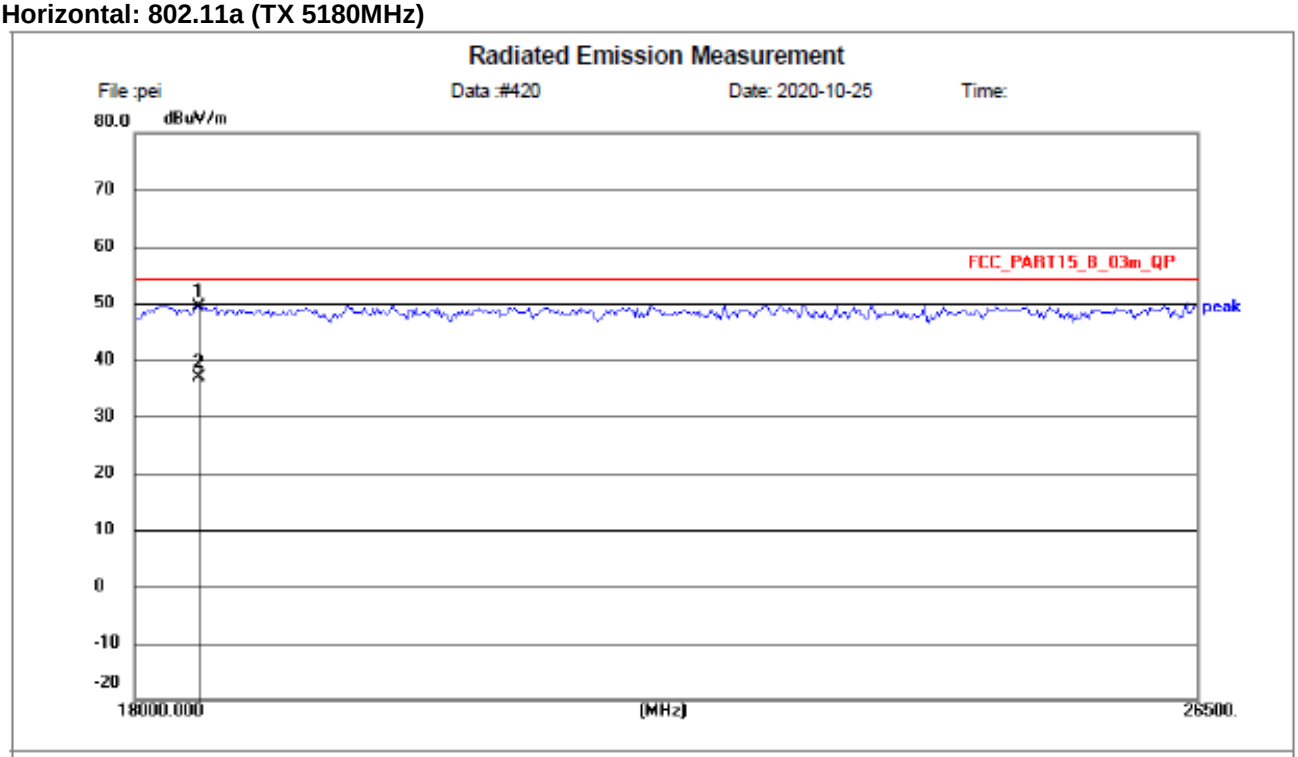
Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	5240.000	96.22	-3.68	92.54	/	/	peak			/	
2	10480.275	41.22	10.69	51.91	74.00	22.09	peak			P	
3	10480.275	34.83	10.69	45.52	54.00	8.48	AVG			P	

18GHz~ 26.5GHz

Horizontal: 802.11a (TX 5180MHz)



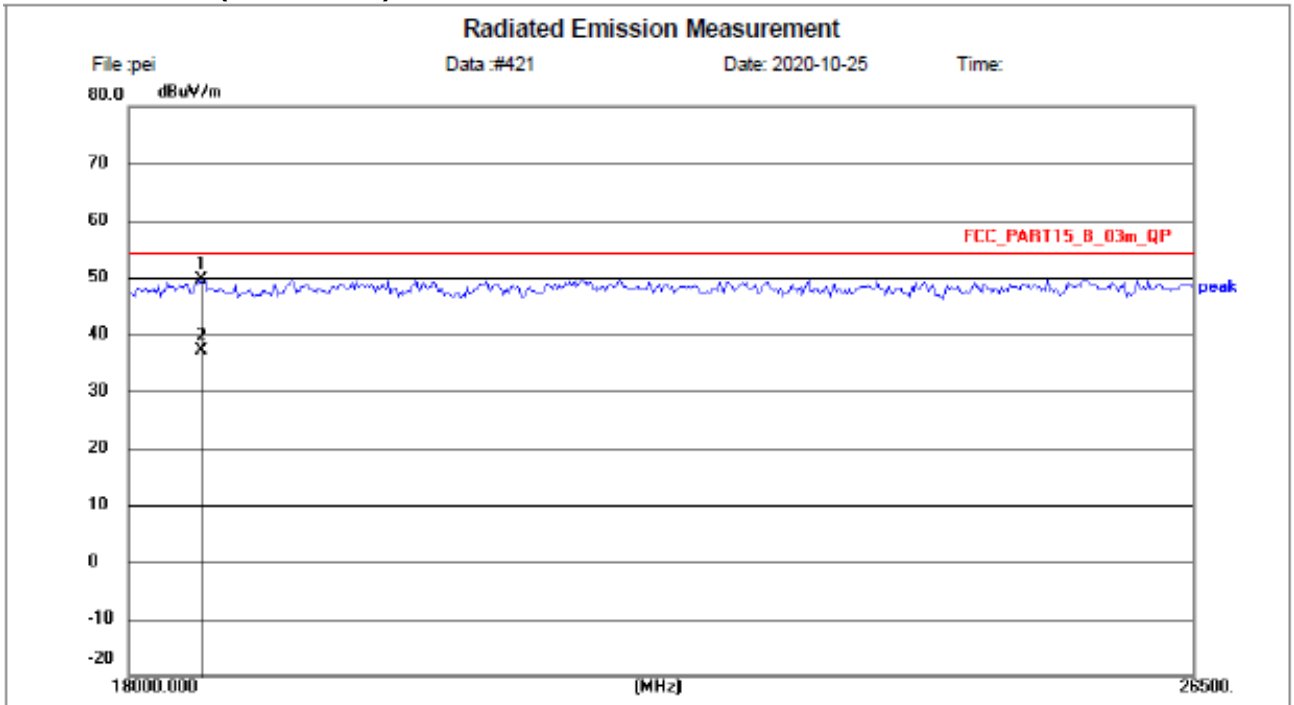
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18409.182	41.03	8.27	49.30	54.00	4.70	peak			P	
2	18409.182	28.69	8.27	36.96	54.00	17.04	AVG			P	

Vertical: 802.11a (TX 5180MHz)



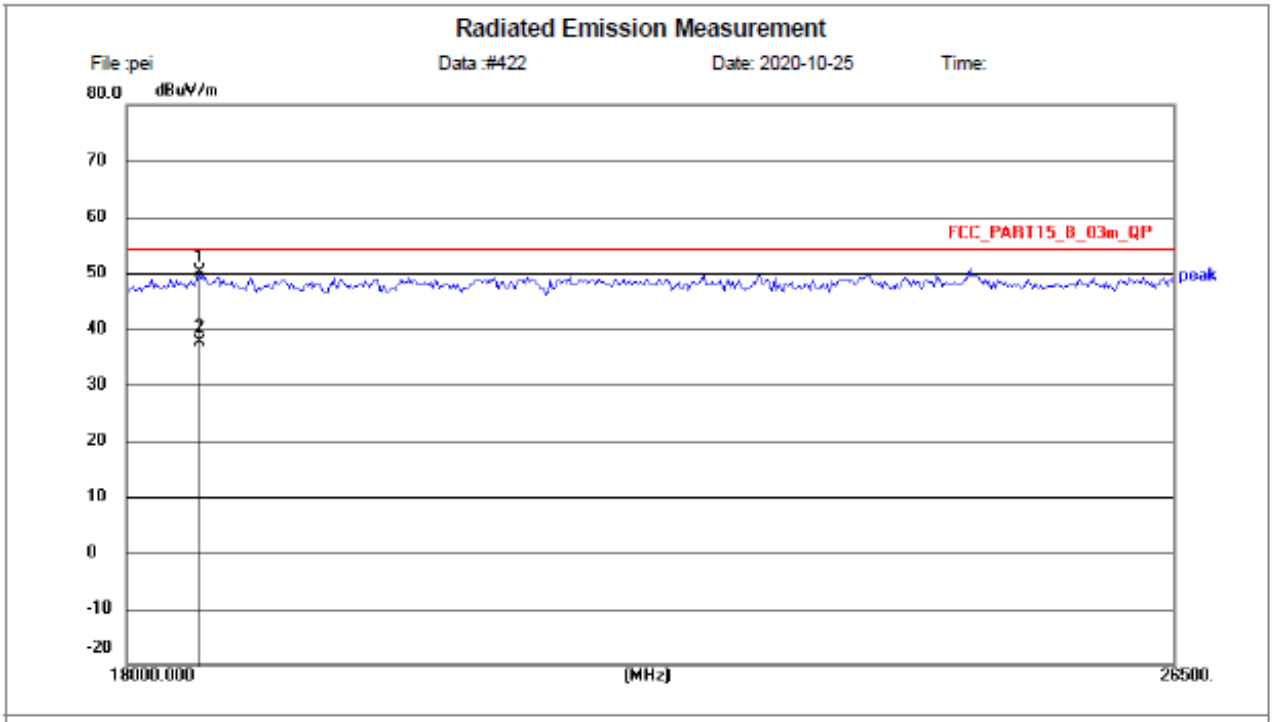
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18476.954	41.08	8.52	49.60	54.00	4.40	peak			P	
2	18476.954	28.65	8.52	37.17	54.00	16.83	AVG			P	

Horizontal: 802.11a (TX 5240MHz)



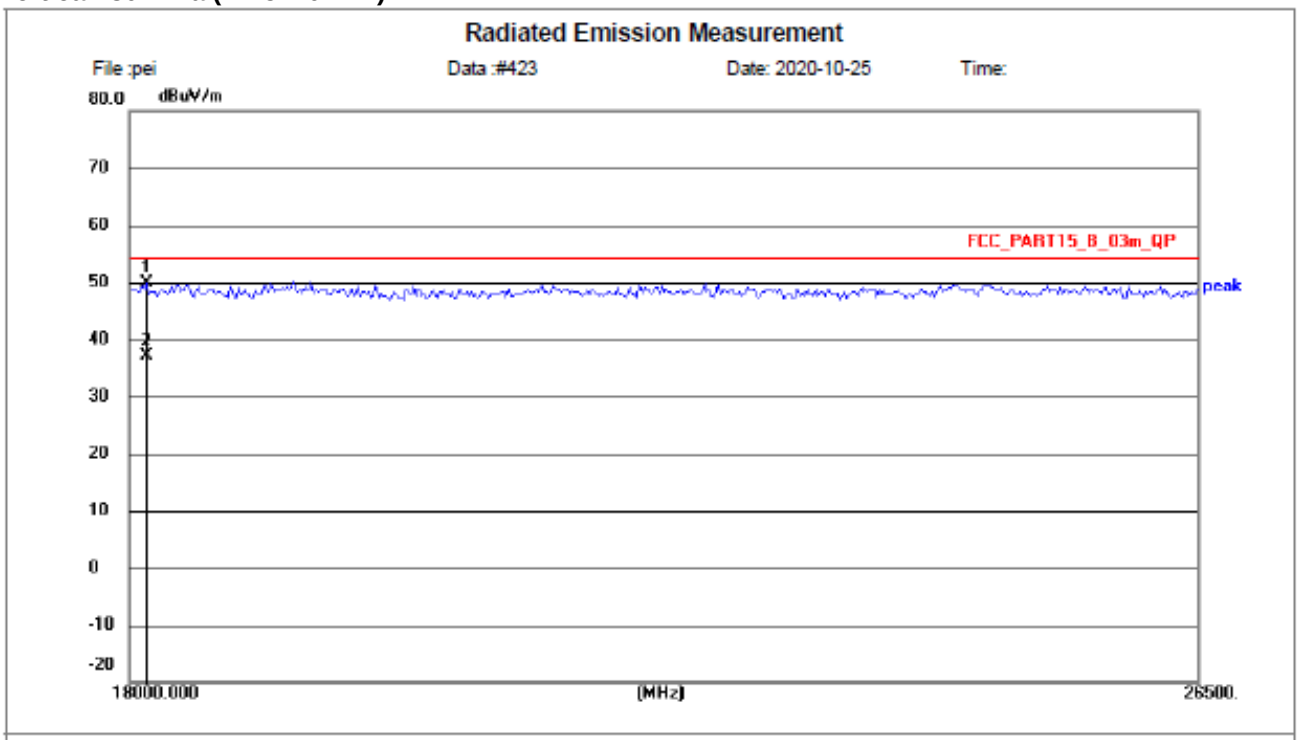
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18493.988	41.50	8.58	50.08	54.00	3.92	peak			P	
2	18493.988	29.11	8.58	37.69	54.00	16.31	AVG			P	

Vertical: 802.11a (TX 5240MHz)



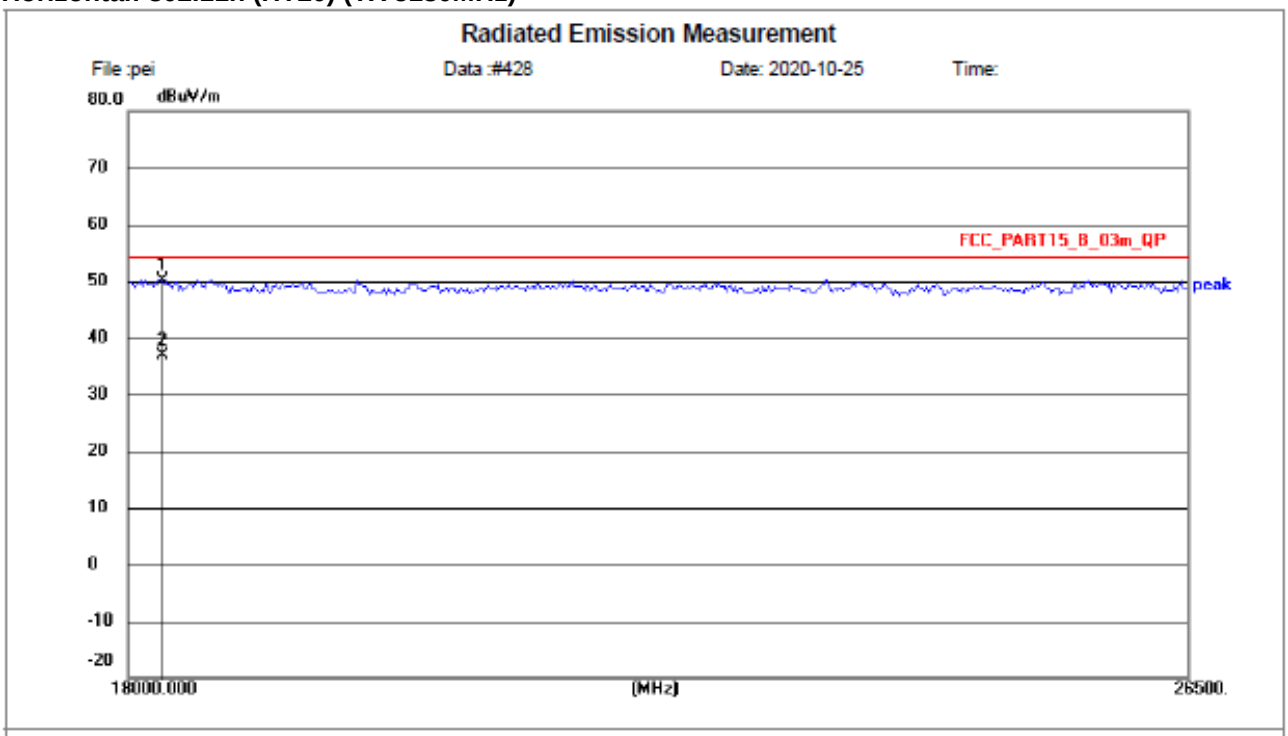
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18119.238	42.61	7.23	49.84	54.00	4.16	peak			P	
2	18119.238	29.88	7.23	37.11	54.00	16.89	AVG			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



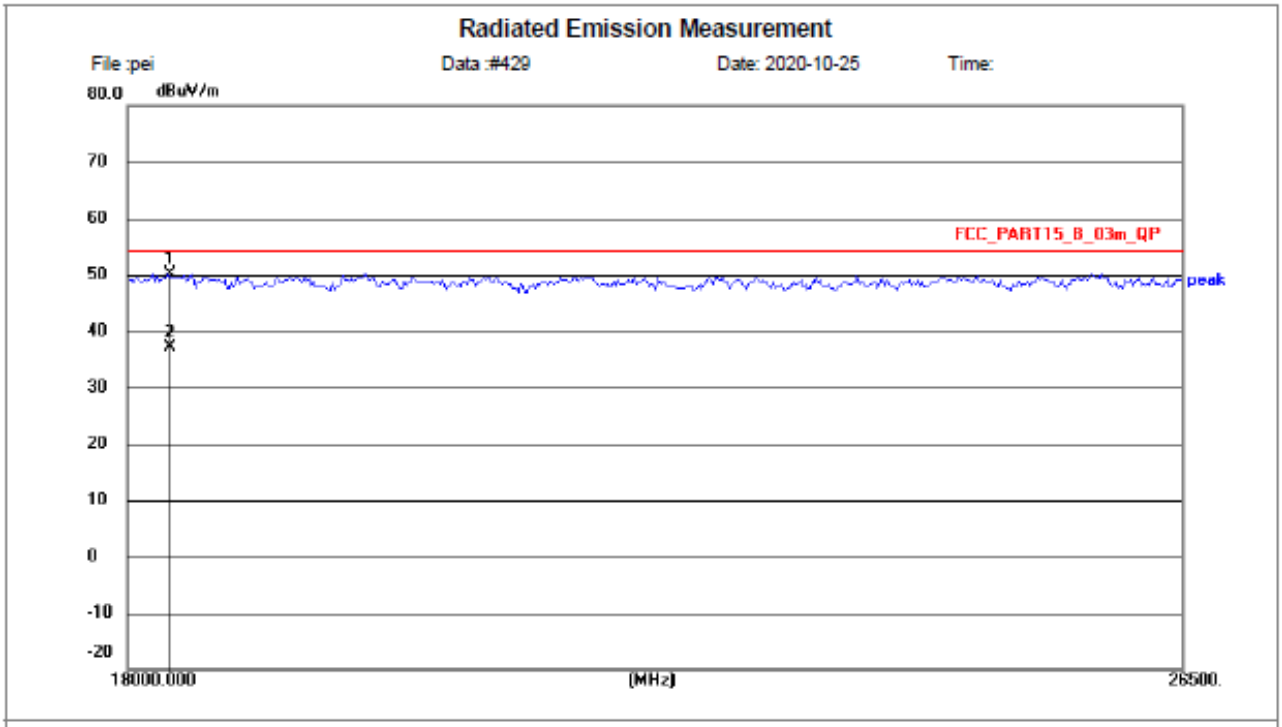
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18221.443	42.55	7.60	50.15	54.00	3.85	peak			P	
2	18221.443	29.37	7.60	36.97	54.00	17.03	AVG			P	

Vertical: 802.11n (HT20) (TX 5180MHz)



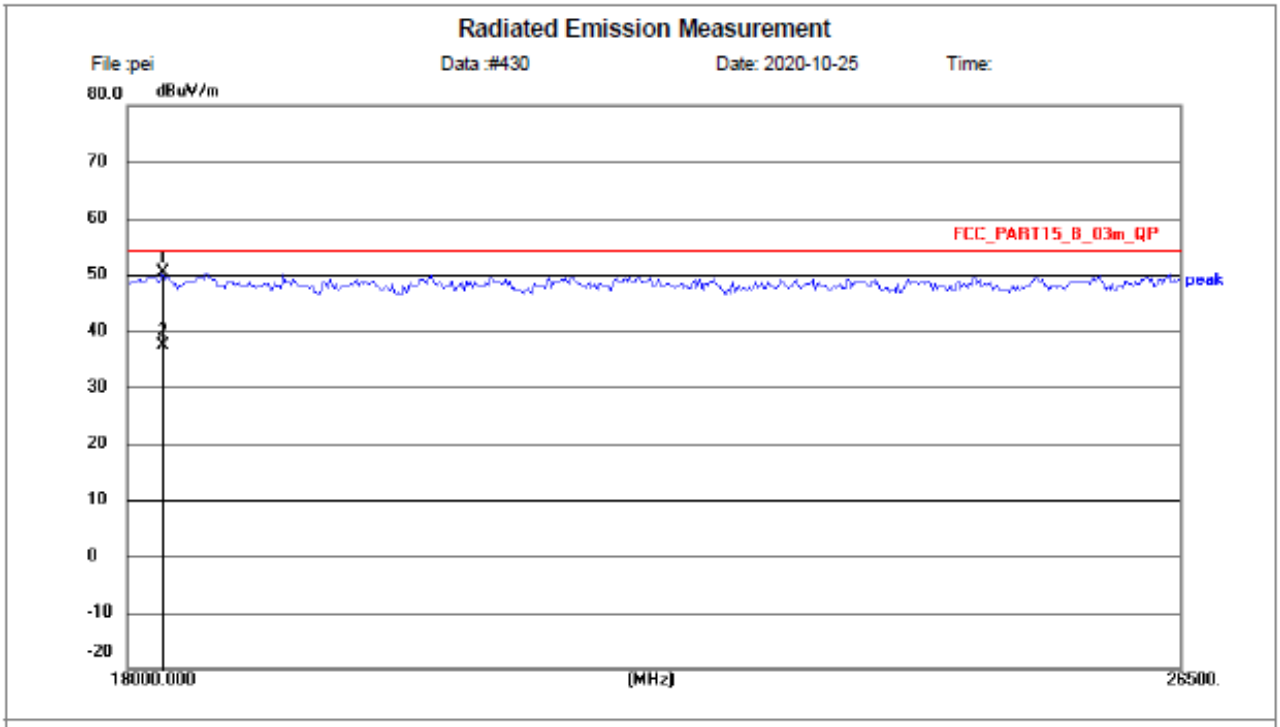
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18272.545	42.41	7.78	50.19	54.00	3.81	peak			P	
2	18272.545	29.40	7.78	37.18	54.00	16.82	AVG			P	

Horizontal: 802.11n (HT20) (TX 5240MHz)



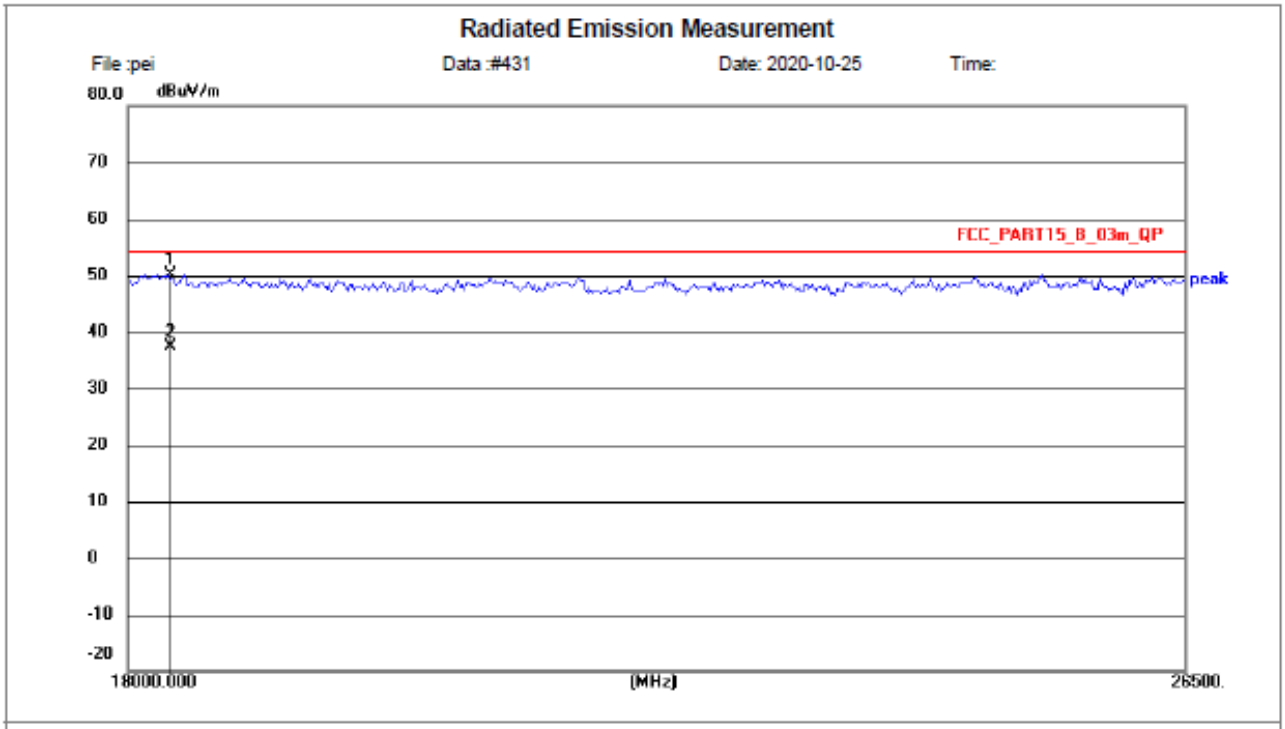
Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18238.477	42.70	7.66	50.36	54.00	3.64	peak			P	
2	18238.477	29.63	7.66	37.29	54.00	16.71	AVG			P	

Vertical: 802.11n (HT20) (TX 5240MHz)



Site 966 Chamber
Limit: FCC_PART15_B_03m_QP
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	18272.545	42.35	7.78	50.13	54.00	3.87	peak			P	
2	18272.545	29.48	7.78	37.26	54.00	16.74	AVG			P	

26.5GHz~ 40GHz

The test trace is same as the ambient noise (the test frequency range: 26.5GHz~40GHz), therefore no data appear in the report.

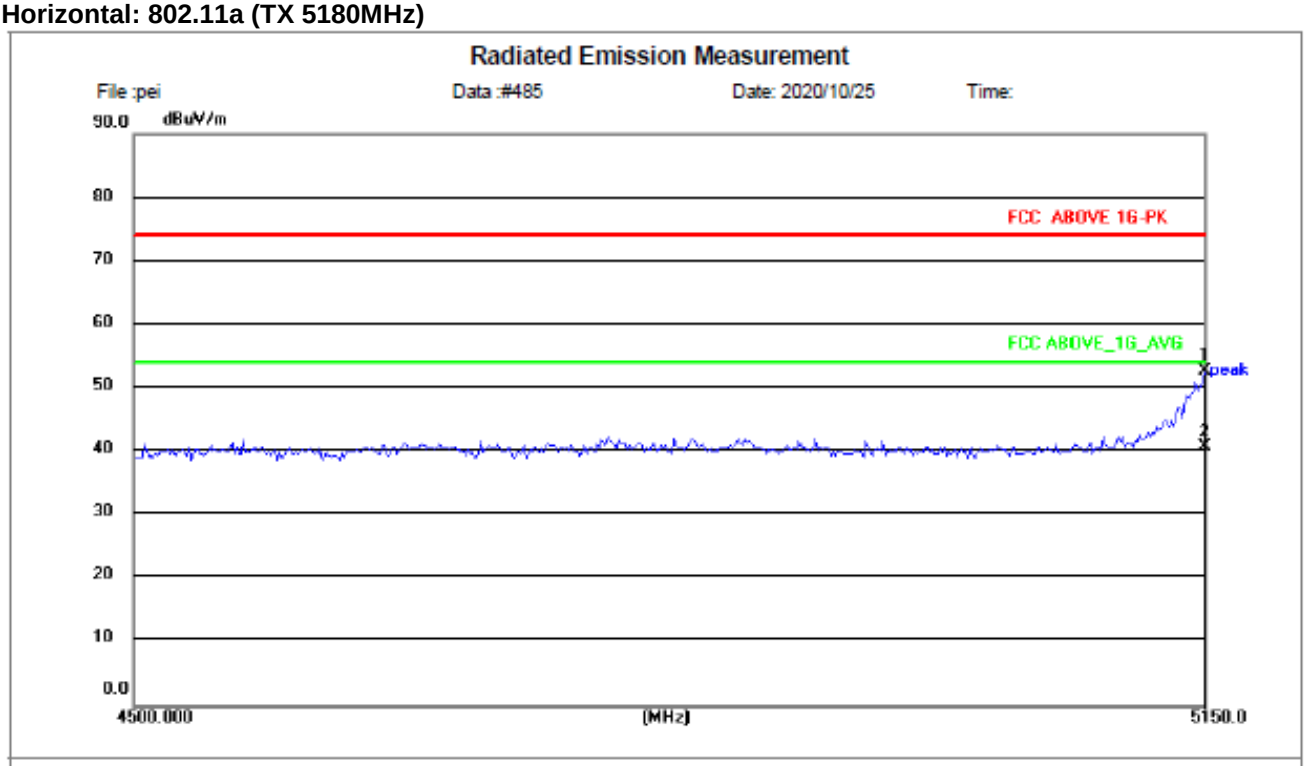
Notes:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.

2. 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.

Spurious Emission in restricted band:

Horizontal: 802.11a (TX 5180MHz)



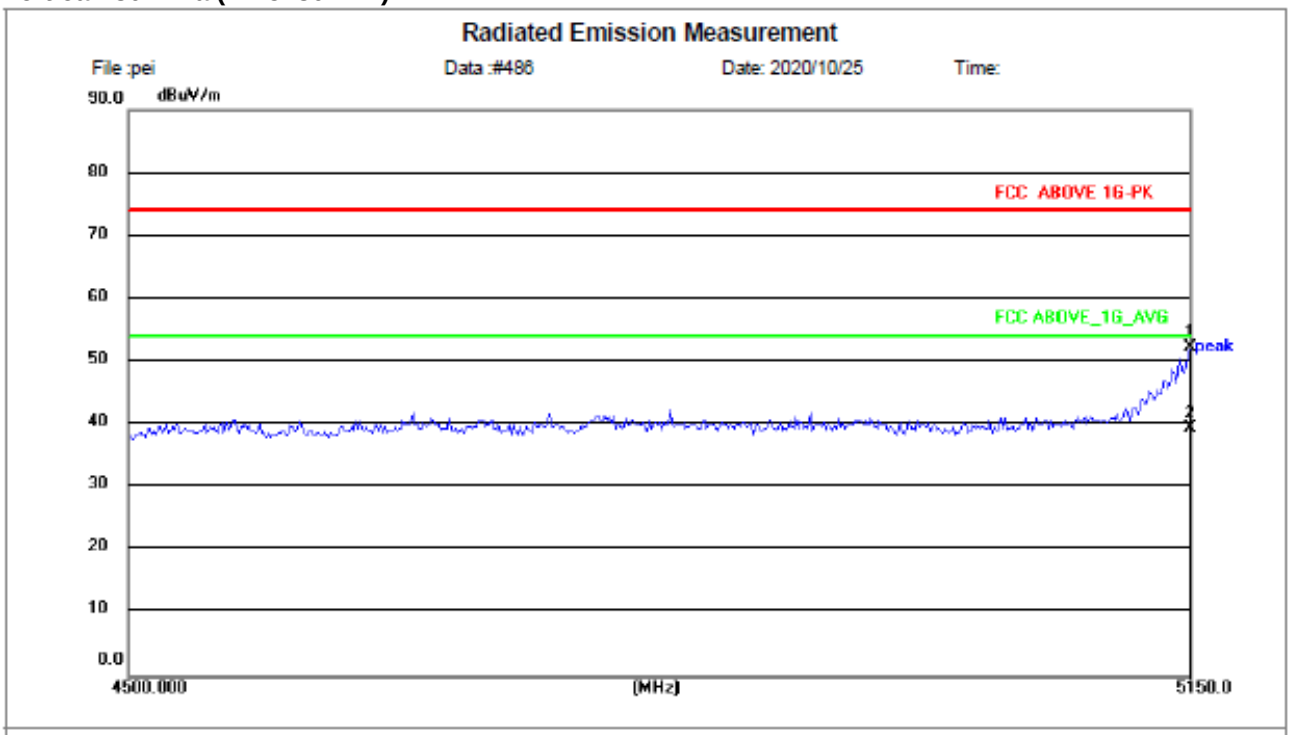
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	56.66	-3.99	52.67	74.00	21.33	peak			P	
2 *	5150.000	44.85	-3.99	40.86	54.00	13.14	AVG			P	

Vertical: 802.11a (TX 5180MHz)



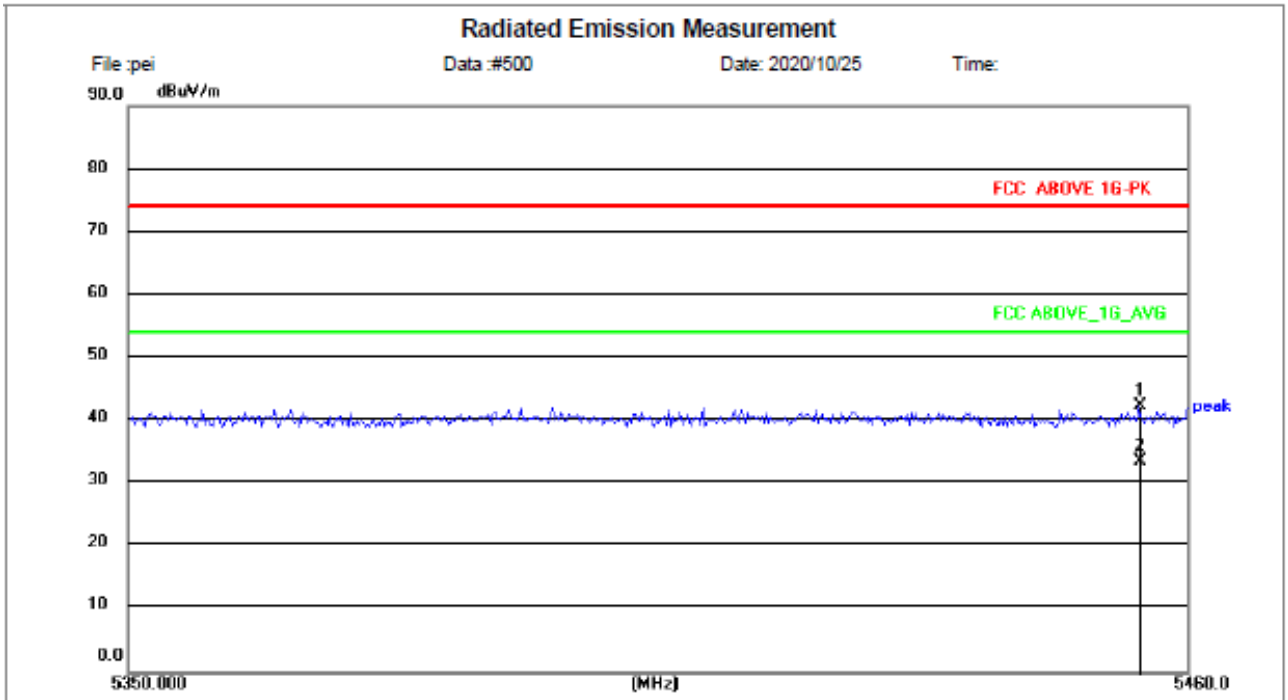
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	56.36	-3.99	52.37	74.00	21.63	peak			P	
2 *	5150.000	43.59	-3.99	39.60	54.00	14.40	AVG			P	

Horizontal: 802.11a (TX 5240MHz)



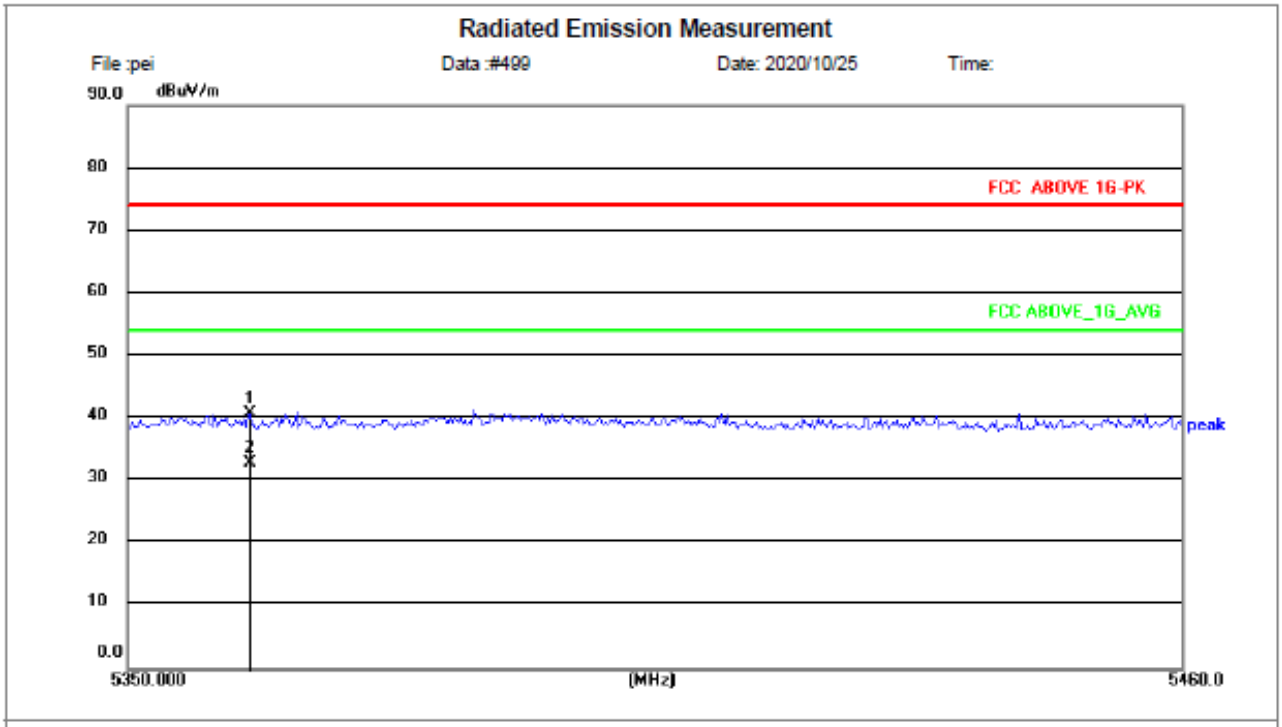
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5454.930	45.38	-2.95	42.43	74.00	31.57	peak			P	
2 *	5454.930	36.48	-2.95	33.53	54.00	20.47	AVG			P	

Vertical: 802.11a (TX 5240MHz)



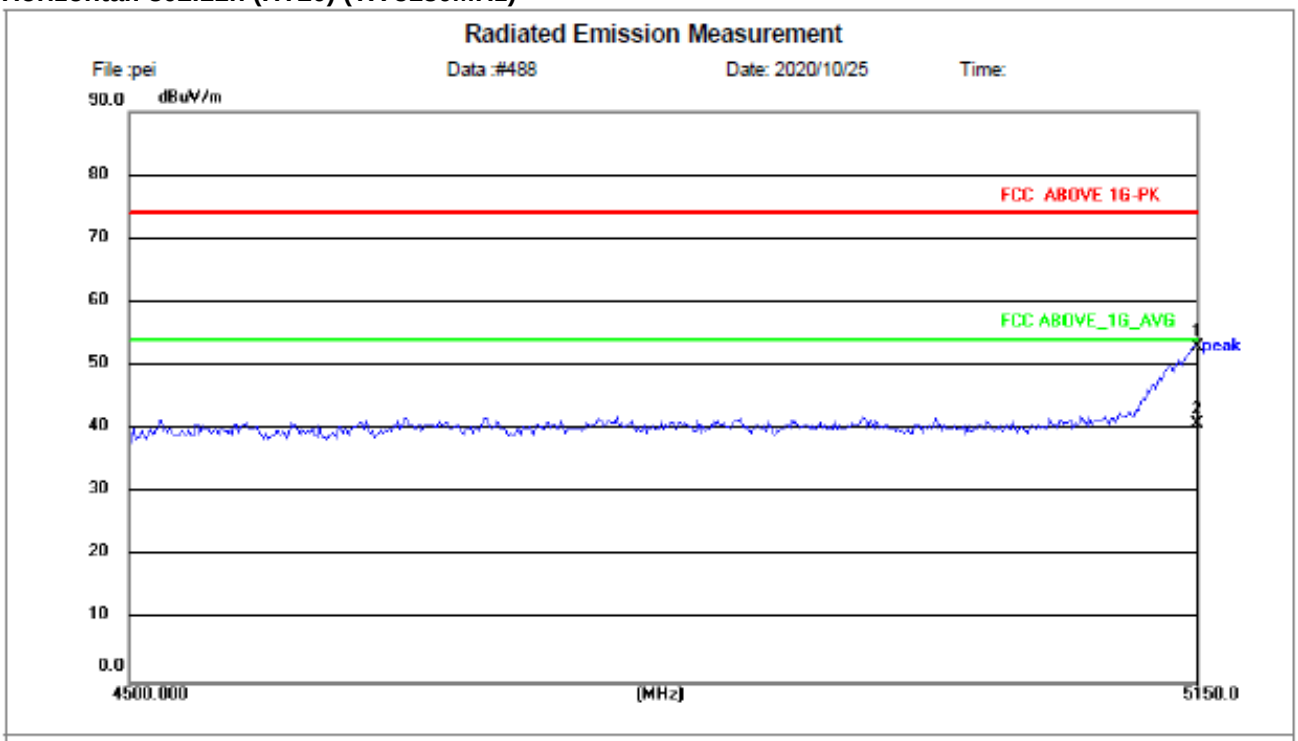
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11a (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5362.785	44.05	-3.26	40.79	74.00	33.21	peak			P	
2 *	5362.785	36.29	-3.26	33.03	54.00	20.97	AVG			P	

Horizontal: 802.11n (HT20) (TX 5180MHz)



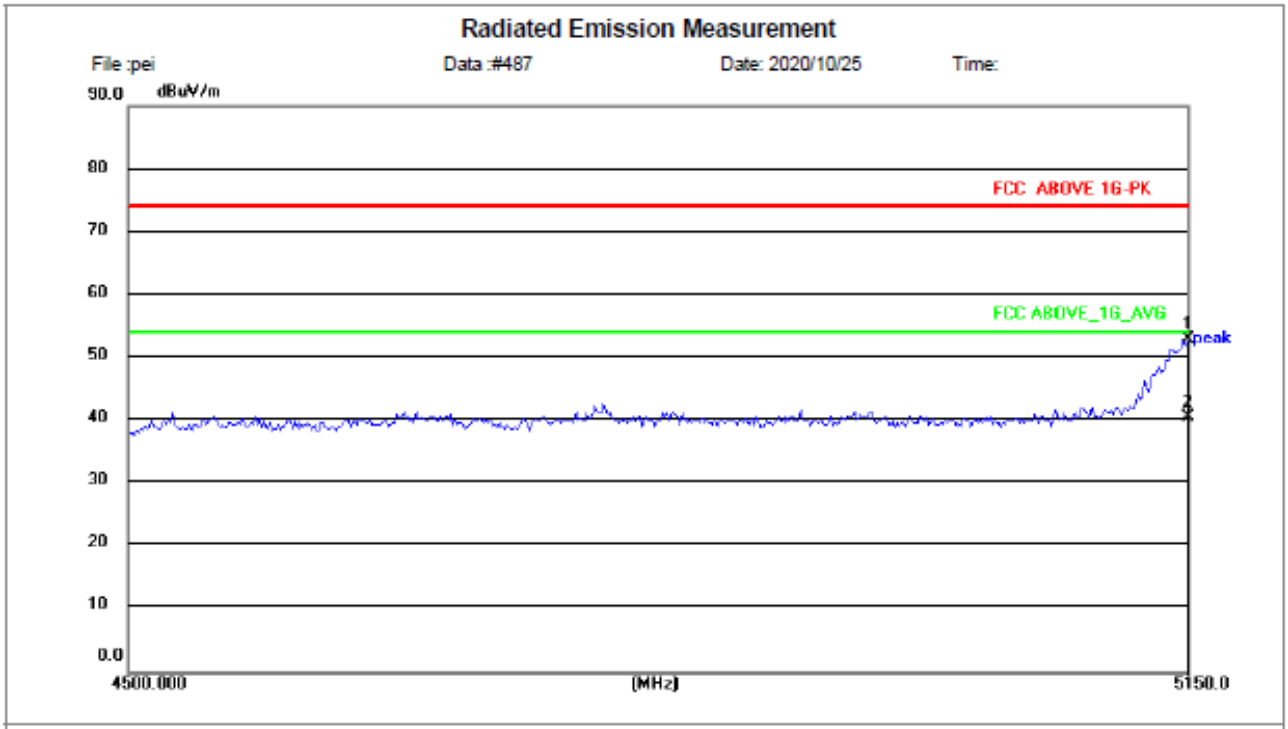
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	57.02	-3.99	53.03	74.00	20.97	peak			P	
2 *	5150.000	44.77	-3.99	40.78	54.00	13.22	AVG			P	

Vertical: 802.11n (HT20) (TX 5180MHz)



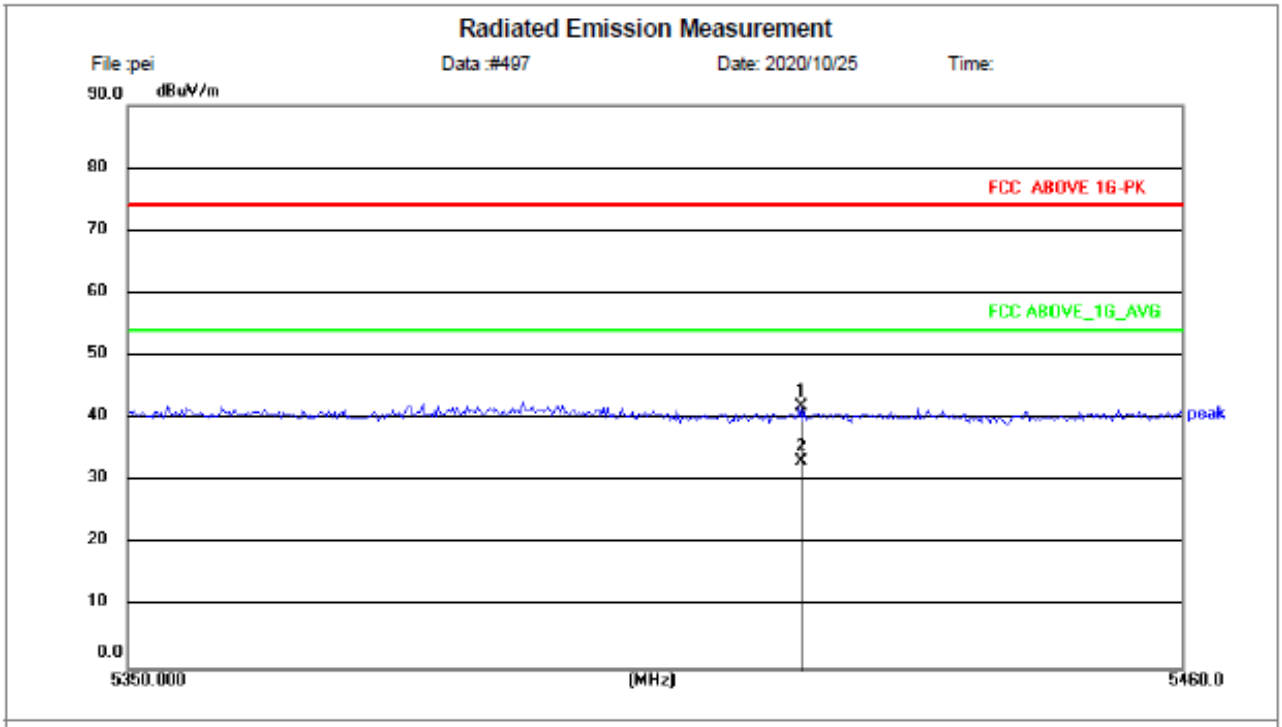
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5180MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5150.000	57.01	-3.99	53.02	74.00	20.98	peak			P	
2 *	5150.000	44.52	-3.99	40.53	54.00	13.47	AVG			P	

Horizontal: 802.11n (HT20) (TX 5240MHz)



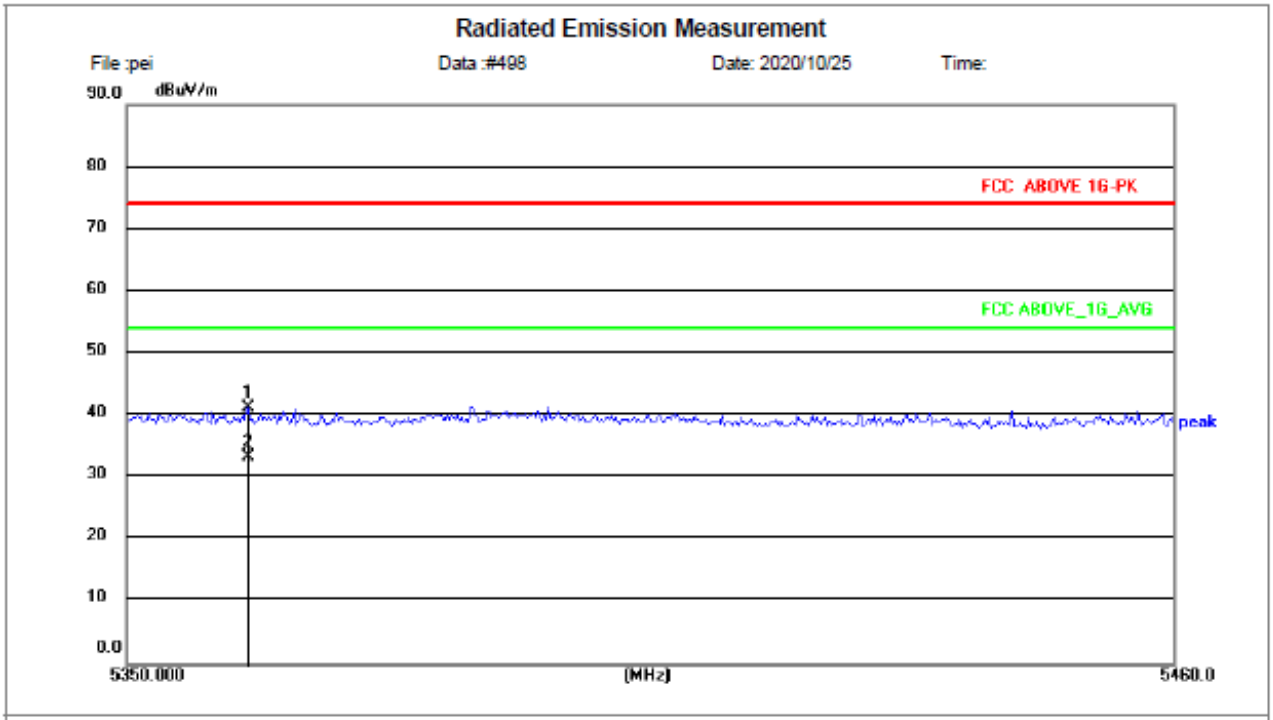
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Horizontal*
Power: DC5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5419.880	45.09	-3.07	42.02	74.00	31.98	peak			P	
2 *	5419.880	36.36	-3.07	33.29	54.00	20.71	AVG			P	

Vertical: 802.11n (HT20) (TX 5240MHz)



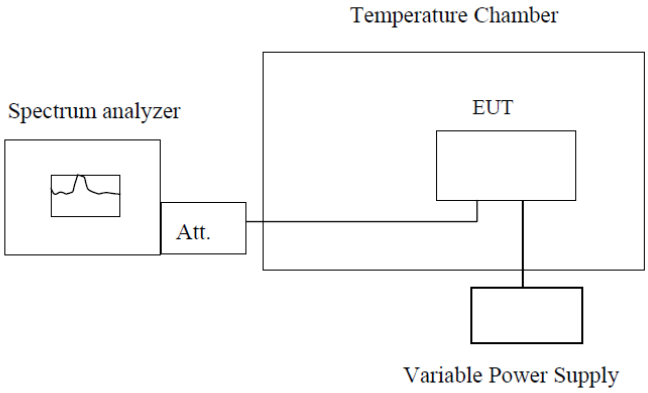
Site 966 Chamber
Limit: FCC ABOVE 1G-PK
EUT: Vaxis wireless video system
M/N: Vaxis Atom 500 SDI RX
Mode: 802.11n (TX 5240MHz)
Note: Hunan GM innovation technology Co.,Ltd
Receiver

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 26(C)
Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	5362.785	44.55	-3.26	41.29	74.00	32.71	peak			P	
2 *	5362.785	36.58	-3.26	33.32	54.00	20.68	AVG			P	

7.8 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, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.

Frequencies Stability test result: 5180MHz

Test Conditions	Measured Frequency(MHz) 5180
V nor(V)	5180.0012
V max(V)	5180.0036
V min(V)	5180.0039
Max. Deviation Frequency	0.0039
Max. Frequency Error (ppm)	0.75

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency(MHz) 5180
-5	5180.0025
5	5180.0035
15	5180.0047
25	5180.0031
35	5180.0047
45	5180.0049
50	5180.0041
Max. Deviation Frequency	0.0049
Max. Frequency Error (ppm)	0.95

Frequencies Stability test result: 5240MHz

Test Conditions	Measured Frequency(MHz) 5240
V nor(V)	5240.0028
V max(V)	5240.0036
V min(V)	5240.0025
Max. Deviation Frequency	0.0036
Max. Frequency Error (ppm)	0.69

Frequency Error vs. Temperature:

Test Conditions (℃)	Measured Frequency(MHz) 5240
-5	5240.0047
5	5240.0033
15	5240.0066
25	5240.0035
35	5240.0052
45	5240.0056
50	5240.0042
Max. Deviation Frequency	0.0066
Max. Frequency Error (ppm)	1.26

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

---END---