

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM160700530601

### FCC REPORT

Application No:SZEM1607005306CRApplicant:AG ACQUISITION CORP.Manufacturer:AG ACQUISITION CORP.Product Name:A50 BASE STATION

Model No.(EUT): TXDX01

Trade Mark:

ASTRO GAMING

FCC ID: YQ6-TXDX01

**Standards:** 47 CFR Part 15, Subpart E (2015)

**Date of Receipt:** 2016-07-05

**Date of Test:** 2016-07-06 to 2016-07-08

**Date of Issue:** 2016-07-12

Test Result: PASS \*

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

### Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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### 2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
00		2016-07-12		Original	

Authorized for issue by:		
Tested By	Benson Wang	2016-07-08
	(Benson Wang) /Project Engineer	Date
Prepared By	Joyce Shi	2016-07-12
	(Joyce Shi) /Clerk	Date
Checked By	Eric Fu	2016-07-12
	(Eric Fu) /Reviewer	Date

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### 3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.203	ANSI C63.10: 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Duty Cycle	FCC KDB 789033 D02 General UNIT Test Procedures New Rules v01	ANSI C63.10: 2013	PASS
Equivalent Isotropic Radiated Power (e.i.r.p.)	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Section 15.407(e)	ANSI C63.10: 2013	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Power Spectral Density	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS



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### 5 General Information

### 5.1 Client Information

Applicant:	AG ACQUISITION CORP.
Address of Applicant:	1441 UTE BLVD., SUITE 250, PARK CITY, UT 84098, United States
Manufacturer:	AG ACQUISITION CORP.
Address of Manufacturer:	1441 UTE BLVD., SUITE 250, PARK CITY, UT 84098,United States

### 5.2 General Description of EUT

Product Name:	A50 BASE STATION
Model No.:	TXDX01
Trade Mark:	*
	ASTRO GAMING
Operation Frequency:	5.725-5.850GHz.
Channel Numbers:	5G WiFi, 802.11a(VHT20)
Modulation Type	For 802.11a: OFDM(8PSK/QPSK/16QAM/64QAM)
Sample Type:	Fixed production
Antenna Type:	PCB Printed Inverted F
Antenna Gain:	2.52dBi
Power Supply:	AC120V/60Hz

#### Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of	Number of Measurement	Location of Measurement
Operation Operating	Frequencies Required	Frequency in Band of
Frequency Range (in each		Operation
Band)		
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near
		low end
Greater than 10 MHz	3	1 near high end, 1 near
		centre

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For 802.11a(HT20)

Mode	Channel Frequency(MH	
IEEE 802.11a 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825



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### 5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1005 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all
	kind of data rate.

### 5.4 Description of Support Units

The EUT has been tested with below unit .:

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
USB cable(108cm shielded)	Skullcandy	N/A	N/A

### 5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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### 5.6 Test Facility

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

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### · A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### • FCC - Registration No.: 556682

SGS-CSTC Standards Technical 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 our files. Registration No.: 556682.

### · Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

### 5.7 Deviation from Standards

None.

### 5.8 Abnormalities from Standard Conditions

None.

### 5.9 Other Information Requested by the Customer

None.



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### 5.10 Equipment List

	Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2015-08-01	2016-08-01
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2016-04-25	2017-04-25
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2017-01-26
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-04-25	2017-04-25
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2016-08-14

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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
7	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09
8	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09

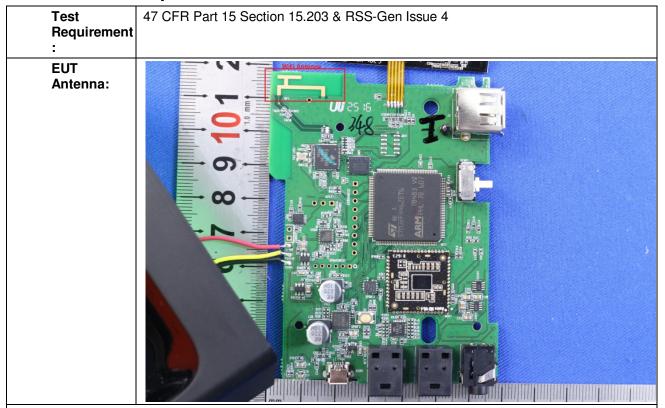
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### **Test results and Measurement Data**

### 6.1 Antenna Requirement



The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 2.52dBi.

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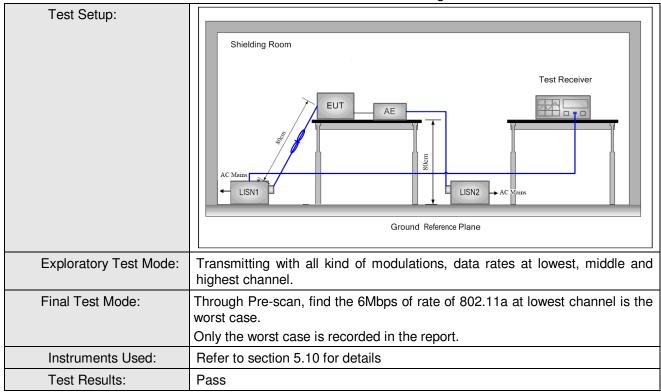
### 6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	: 150kHz to 30MHz				
Limit:	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
				-	
Test Procedure:	I	oance voltage test was	conducted in a shie	lded	
	2) The EUT was connected to Impedance Stabilization N impedance. The power cal connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided the ra 3) The tabletop EUT was place ground reference plane. A placed on the horizontal ground reference plane. A placed on the horizontal ground reference preference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated expressions.	plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables		es to he was ear he he	



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#### **Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

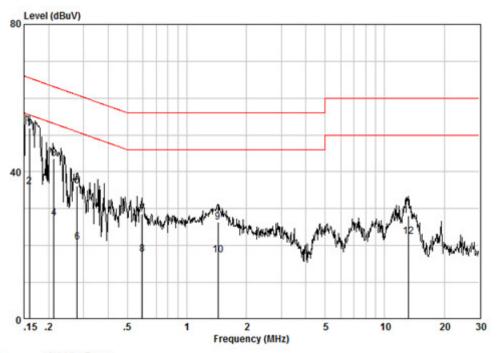
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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#### Live Line:



Site : Shielding Room Condition : CE LINE Job No. : 5306CR

lest Mode : IA								
	Frag		LISN					
	rreq	Loss	ractor	rever	rever	Line	LIMIC	Kemark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 0	0.15985	0.02	9.60	42.21	51.82	65.47	-13.65	QP
2	0.15985	0.02	9.60	26.38	36.00	55.47	-19.47	AVERAGE
3	0.21279	0.02	9.60	33.94	43.56	63.10	-19.53	QP
4	0.21279	0.02	9.60	17.81	27.43	53.10	-25.67	AVERAGE
5	0.27881	0.02	9.59	26.65	36.26	60.85	-24.59	QP
6	0.27881	0.02	9.59	11.24	20.86	50.85	-29.99	AVERAGE
7	0.59478	0.02	9.61	18.84	28.47	56.00	-27.53	QP
8	0.59478	0.02	9.61	8.08	17.72	46.00	-28.28	AVERAGE
9	1.433	0.03	9.59	16.73	26.35	56.00	-29.65	QP
10	1.433	0.03	9.59	7.71	17.33	46.00	-28.67	AVERAGE
11	13.127	0.15	9.74	18.31	28.21	60.00	-31.79	QP
12	13,127	0.15	9.74	12.53	22.42	50.00	-27.58	AVERAGE

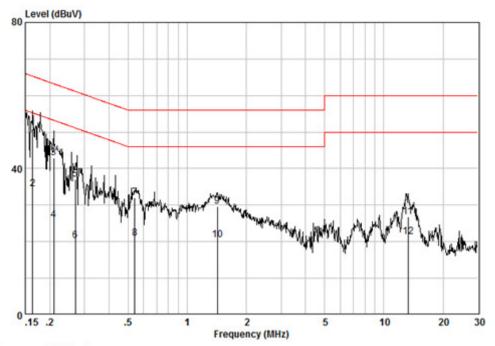
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#### Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 5306CR Test Mode : TX

	Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 8	0.16327	0.02	9.61	41.25	50.88	65.30	-14.42	QP
2	0.16327	0.02	9.61	24.76	34.39	55.30	-20.91	AVERAGE
3	0.20944	0.02	9.62	33.25	42.89	63.23	-20.34	QP
4	0.20944	0.02	9.62	16.37	26.01	53.23	-27.22	AVERAGE
5	0.27009	0.02	9.61	27.32	36.95	61.12	-24.16	QP
6 7	0.27009	0.02	9.61	10.64	20.27	51.12	-30.85	AVERAGE
7	0.54068	0.02	9.63	22.49	32.14	56.00	-23.86	QP
8	0.54068	0.02	9.63	11.38	21.03	46.00	-24.97	AVERAGE
9	1.426	0.03	9.64	19.91	29.59	56.00	-26.41	QP
10	1.426	0.03	9.64	10.76	20.43	46.00	-25.57	AVERAGE
11	13.267	0.15	9.86	16.86	26.88	60.00	-33.12	QP
12	13.267	0.15	9.86	11.34	21.36	50.00	-28.64	AVERAGE

#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

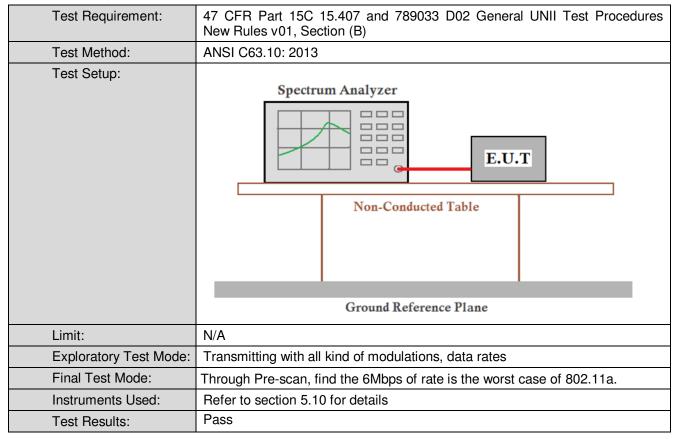
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### 6.3 Duty Cycle



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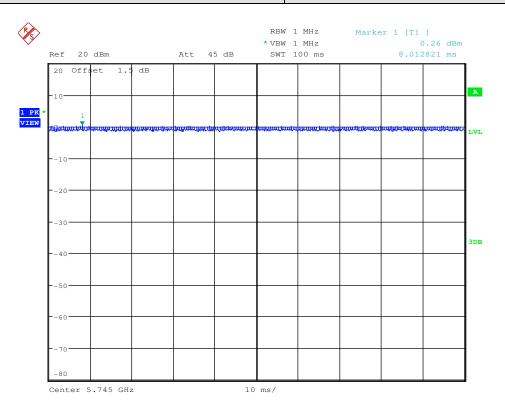
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#### **Measurement Data**

802.11a mode						
Test channel	On time	Period	Duty Cycle			
149	100	100	1			

Toot mode:	000 110
Lest mode:	002.11a
	00=



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### 6.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane  Remark:		
	Offset the High-Frequency cable loss 0.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.		
Limit:	The maximum conducted output power shall not exceed 1 W.		
Test Results:	Pass		

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#### **Measurement Data:**

802.11a mode						
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result			
5745	5.56	30.00	Pass			
5785	5.55	30.00	Pass			
5825	4.91	30.00	Pass			

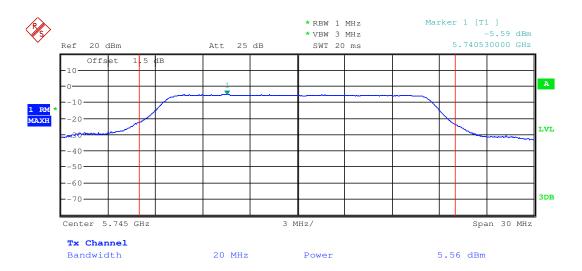


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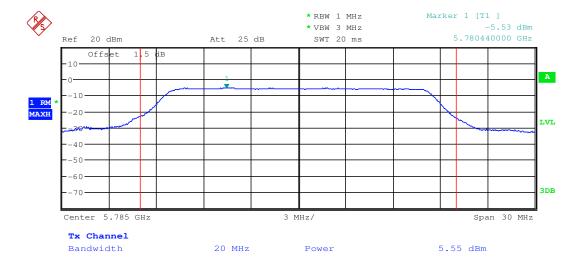
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### Test plot as follows:

Test mode: 802.11a Test channel: 149



Test mode:	802.11a	Test channel:	157
	0 0 1 1 01		



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Test mode: 802.11a Test channel: 165



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### 6.5 Equivalent Isotropic Radiated Power (e.i.r.p.)

Test Requirement:	47 CFR Part 15 Section 15.407(a)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane  Remark:		
	Offset the High-Frequency cable loss 0.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.		
Limit:	*The limit =the maximum output conducted power limit+ actual antenna gain		
Test Results:	Pass		

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#### **Measurement Data:**

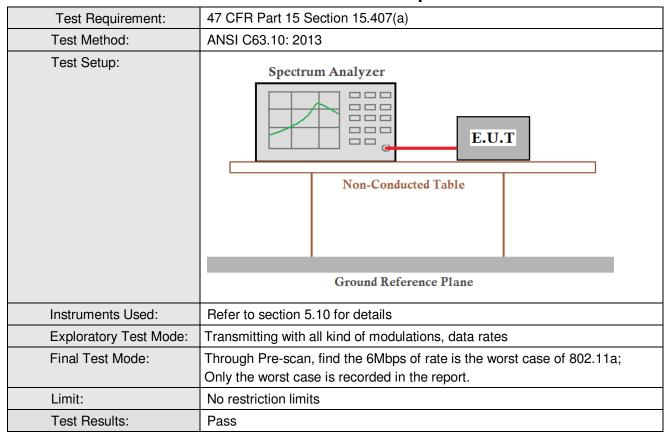
802.11a mode						
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result			
5745	8.08	30.00	Pass			
5785	8.07	30.00	Pass			
5825	7.43	30.00	Pass			



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### 6.6 26dB Emission Bandwidth and 99% Occupied Bandwidth





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#### **Measurement Data:**

802.11a mode						
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)				
5745	31.795	18.000				
5785	32.170	17.910				
5825	31.731	17.850				



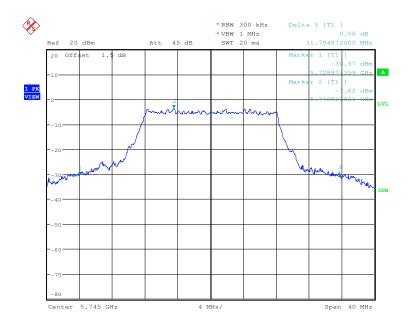
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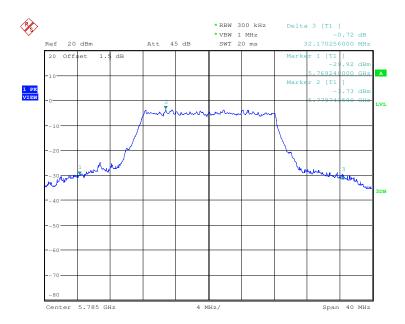
#### 26dB Emission Bandwidth

Test plot as follows:

Test mode: 802.11a Test channel: 149







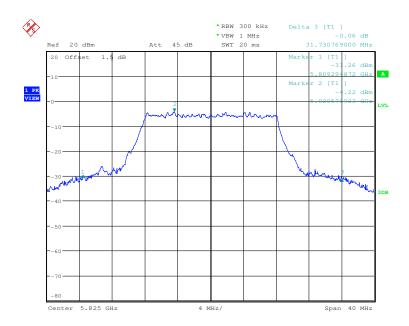
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Test mode: 802.11a Test channel: 165





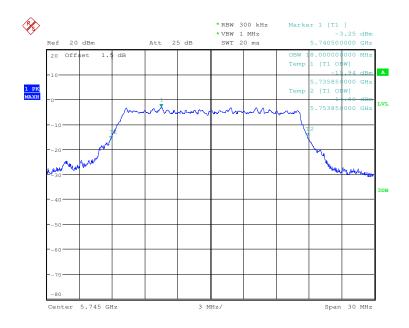
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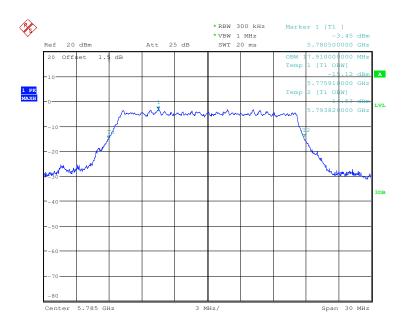
#### 99% Occupied Bandwidth

Test plot as follows:

Test mode: 802.11a Test channel: 149







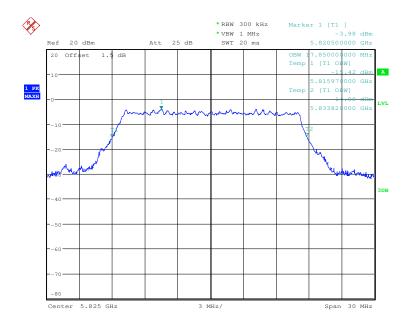
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Test mode: 802.11a Test channel: 165



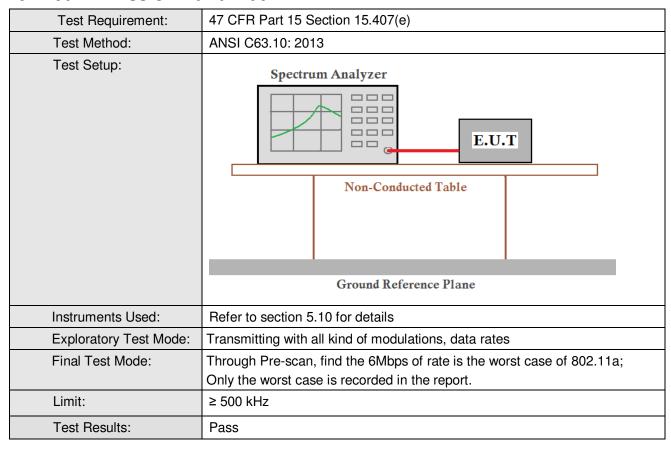
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### 6.7 6dB Emission Bandwidth



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#### **Measurement Data:**

802.11a mode					
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
5745	16.680	≥500	Pass		
5785	16.620	≥500	Pass		
5825	16.680	≥500	Pass		

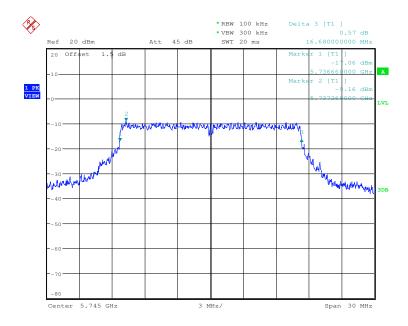


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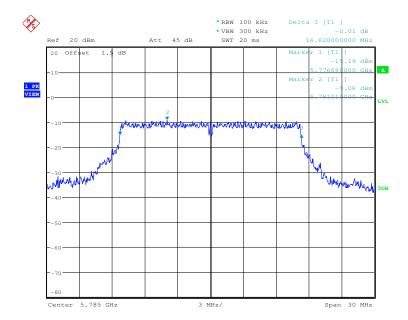
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Test plot as follows:

Test mode: 802.11a Test channel: 149







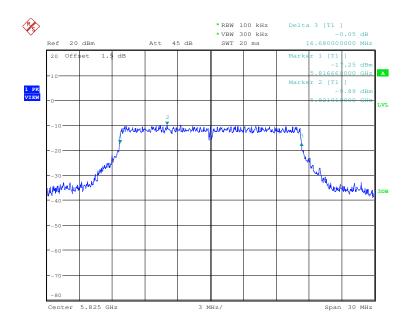
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Test mode: 802.11a Test channel: 165



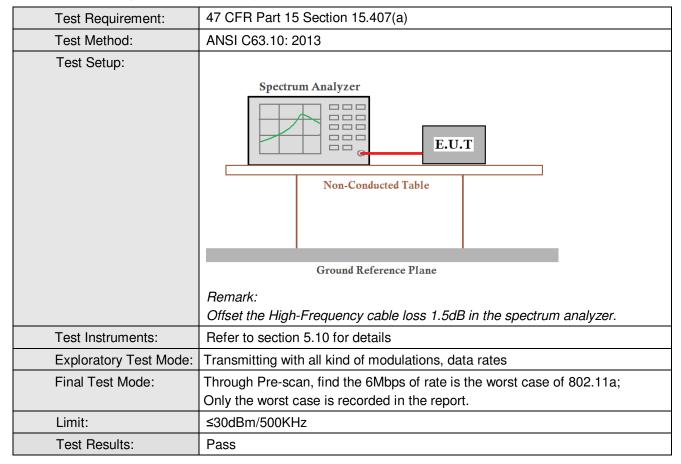
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### 6.8 Power Spectral Density





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#### **Measurement Data:**

802.11a mode					
Test channel	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Result		
149	-8.18	≤30dBm/500kHz	Pass		
157	-8.27	≤30dBm/500kHz	Pass		
165	-8.85	≤30dBm/500kHz	Pass		

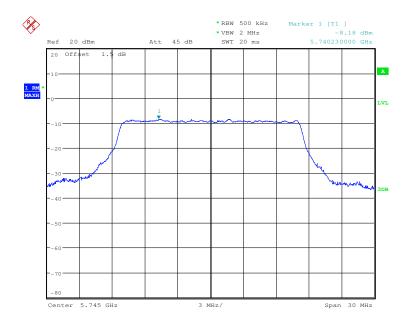


Report No.: SZEM160700530601

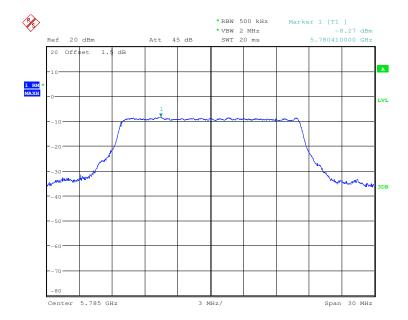
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Test plot as follows:

Test mode: 802.11a Test channel: 149







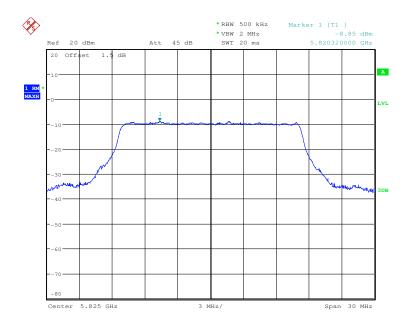
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Test mode: 802.11a Test channel: 165



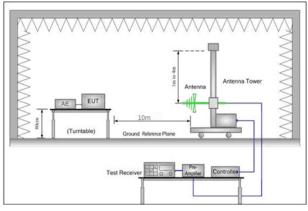


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#### 6.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)					
	Measurement Distance: 10m (Semi-Anechoic Chamber)				
Test Setup:					



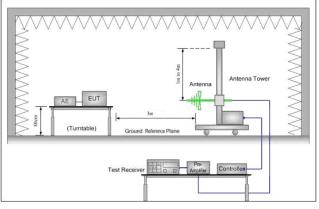


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 and 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
- b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna
- 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.
- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the outermost channels.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse
- Repeat above procedures until all frequencies measured was complete.

Exploratory Test Mode: Transmitting with all kind of modulations, data rates.



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Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; For below 1GHz, through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case.  Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

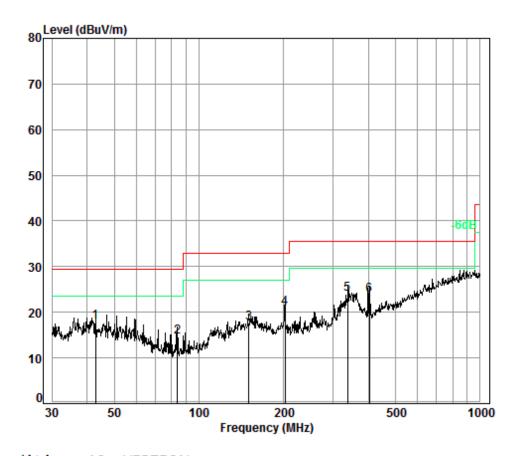


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#### 6.9.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting mode	Vertical



Condition: 10m VERTICAL

Job No. : 5306CR

Test Mode: TX

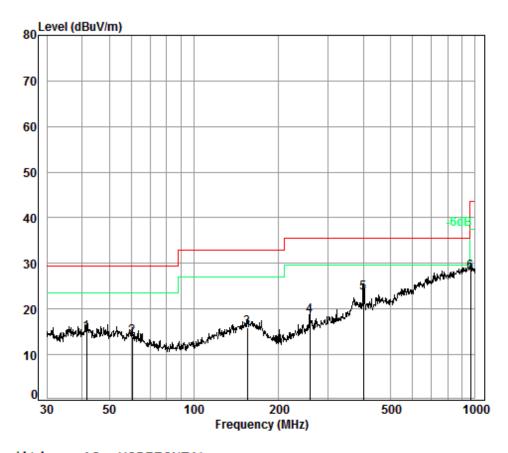
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.90	6.80	13.07	32.99	30.98	17.86	29.50	-11.64
2	83.82	7.14	8.60	32.85	31.82	14.71	29.50	-14.79
3	150.54	7.45	13.41	32.74	29.47	17.59	33.00	-15.41
4	202.81	7.61	9.36	32.70	36.72	20.99	33.00	-12.01
5 pp	338.40	8.19	13.63	32.60	34.82	24.04	35.60	-11.56
6	403.25	8.31	14.95	32.60	33.16	23.82	35.60	-11.78



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Test mode: Transmitting mode Horizontal



Condition: 10m HORIZONTAL

Job No. : 5306CR

Test Mode: TX

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	41.57	6.80	13.18	32.99	27.80	14.79	29.50	-14.71
2	60.49	7.00	11.90	32.95	28.06	14.01	29.50	-15.49
3	154.82	7.48	13.40	32.74	27.69	15.83	33.00	-17.17
4	258.33	7.90	11.44	32.64	31.93	18.63	35.60	-16.97
5 pp	400.43	8.30	14.87	32.60	32.99	23.56	35.60	-12.04
6	962.16	9.60	22.77	32.50	28.17	28.04	43.50	-15.46

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#### 6.9.2Transmitter emission above 1GHz

#### Test plot as follows:

Test mod	e:	;	802.11a	Freque	ency(MHz):	5745	Rema	rk:		Peak
Frequency (MHz)	Ante Fac (dB/	tor	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB)	t	Polarization
7664.340	36.	03	10.88	37.44	42.68	52.15	74	-21.8	35	Vertical
9659.786	37.	10	12.53	36.28	39.62	52.97	74	-21.0	3	Vertical
11490.000	37.	45	14.01	36.68	35.60	50.38	74	-23.6	2	Vertical
13192.440	38.	29	15.60	38.42	36.91	52.38	74	-21.6	2	Vertical
15214.630	40.	71	16.75	39.44	35.18	53.20	74	-20.8	80	Vertical
17235.000	43.	05	19.50	37.03	27.63	53.15	74	-20.8	35	Vertical
7664.340	36.	03	10.88	37.44	42.50	51.97	74	-22.0	3	Horizontal
9659.786	37.	10	12.53	36.28	39.75	53.10	74	-20.9	0	Horizontal
11490.000	37.	45	14.01	36.68	35.20	49.98	74	-24.0	2	Horizontal
12751.430	37.	98	14.86	37.89	36.28	51.23	74	-22.7	7	Horizontal
15725.970	41.	13	17.24	38.63	33.28	53.02	74	-20.9	8	Horizontal
17235.000	43.	05	19.50	37.03	27.51	53.03	74	-20.9	)7	Horizontal

Test mod	e:	802.11a		302.11a Freque		requency(MHz): 5785 Remark:		rk:		Peak
Frequency (MHz)	Anter Fact (dB/r	or	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB)	t	Polarization
8344.312	36.4	10	11.61	37.27	40.12	50.86	74	-23.1	4	Vertical
10184.440	37.0	)2	12.85	35.90	39.13	53.10	74	-20.9	0	Vertical
11570.000	37.4	19	14.09	36.75	34.11	48.94	74	-25.0	6	Vertical
13167.540	38.2	27	15.59	38.38	35.70	51.18	74	-22.8	2	Vertical
15740.830	41.1	14	17.26	38.60	32.86	52.66	74	-21.3	4	Vertical
17355.000	43.2	23	19.92	37.01	27.36	53.50	74	-20.5	0	Vertical
8328.564	36.4	10	11.58	37.27	40.19	50.90	74	-23.1	0	Horizontal
9899.929	37.2	20	12.66	35.96	38.72	52.62	74	-21.3	8	Horizontal
11570.000	37.4	19	14.09	36.75	34.79	49.62	74	-24.3	8	Horizontal
13192.440	38.2	29	15.60	38.42	37.21	52.68	74	-21.3	2	Horizontal
16040.990	41.3	88	17.51	38.15	33.06	53.80	74	-20.2	0.	Horizontal
17355.000	43.2	23	19.92	37.01	26.84	52.98	74	-21.0	2	Horizontal



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Test mod	e:	802.11a	Freque	ency(MHz):	ncy(MHz): 5825 Remark: Peak		Peak	
Frequency (MHz)	Antenn Factor (dB/m	Loss	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	42.83	52.30	74	-21.7	0 Vertical
9659.786	37.10	12.53	36.28	39.48	52.83	74	-21.1	7 Vertical
11650.000	37.50	14.18	36.83	35.00	49.85	74	-24.1	5 Vertical
13882.720	39.18	16.12	39.48	37.41	53.23	74	-20.7	7 Vertical
16595.770	42.19	17.80	37.51	31.41	53.89	74	-20.1	1 Vertical
17475.000	43.45	20.33	36.99	26.46	53.25	74	-20.7	5 Vertical
8328.564	36.40	11.58	37.27	39.54	50.25	74	-23.7	5 Horizontal
9881.246	37.18	12.65	35.98	38.68	52.53	74	-21.4	7 Horizontal
11650.000	37.50	14.18	36.83	34.86	49.71	74	-24.2	9 Horizontal
12751.430	37.98	14.86	37.89	37.02	51.97	74	-22.0	3 Horizontal
15534.070	40.93	17.06	38.93	34.35	53.41	74	-20.5	9 Horizontal
17475.000	43.45	20.33	36.99	25.90	52.69	74	-21.3	1 Horizontal

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

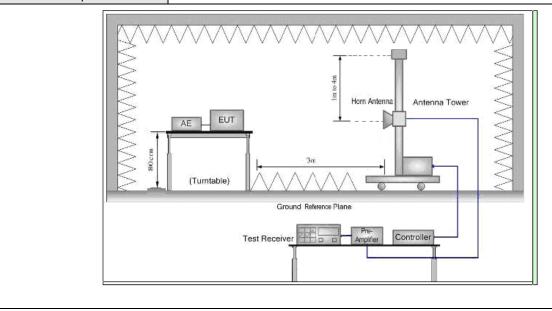


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#### 6.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15	47 CFR Part 15 Section 15.407(b)							
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013							
Test Site:	Measurement Distance: 3r	Measurement Distance: 3m (Semi-Anechoic Chamber)							
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						
	Above 1GHz	54.0	Average Value						
	Above IGHZ	74.0	Peak Value						
Test Setup:									



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a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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 rotatable 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.		1 agc. +5 01 5+
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 rotatable 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.	Test Procedure:	the ground at a 3 meter semi-anechoic camber. The table was rotated
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 rotatable 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Transmitting with all kind of modulations, data rates.  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.		antenna, which was mounted on the top of a variable-height antenna
and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Refer to section 5.10 for details		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
Specified Bandwidth with Maximum Hold Mode.  f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel  g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details		and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to
frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the outermost channels.  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode:  Transmitting with all kind of modulations, data rates.  Final Test Mode:  Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Refer to section 5.10 for details		
h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
for Transmitting mode, And found the X axis positioning which it is worse case.  i. Repeat above procedures until all frequencies measured was complete.  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details		g. Test the EUT in the outermost channels.
complete.  Exploratory Test Mode: Transmitting with all kind of modulations, data rates.  Final Test Mode: Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details		for Transmitting mode, And found the X axis positioning which it is
Final Test Mode: Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details		· · · · · · · · · · · · · · · · · · ·
Only the worst case is recorded in the report.  Instruments Used: Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Instruments Used: Refer to section 5.10 for details	Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a;
		Only the worst case is recorded in the report.
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass

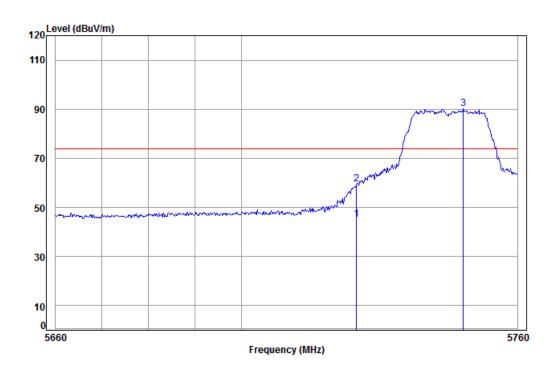


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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5745	Remark:	Peak&Av erage	Vertical
------------	---------	-----------------	------	---------	------------------	----------



Condition: 3m Vertical Job No: : 5306CR

Mode: : 5745 Band edge

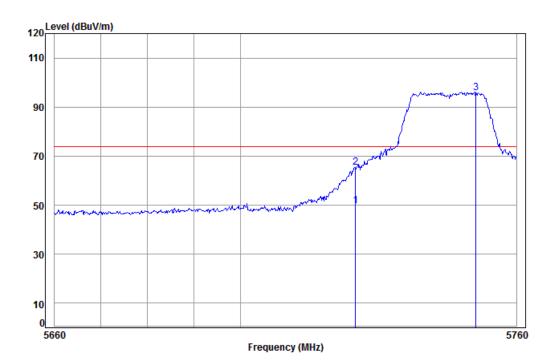
				8-						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	av	5725.000	8.48	34.24	38.92	41.30	45.10	54.00	-8.90	Average
2		5725.000	8.48	34.24	38.92	55.72	59.52	74.00	-14.48	Peak
3	рр	5748.209	8.50	34.23	38.92	86.54	90.35	74.00	16.35	Peak



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Test mode:	802.11a	Frequency(MHz):	5745	Remark:	Peak&Av erage	Horizontal	
------------	---------	-----------------	------	---------	------------------	------------	--



Condition: 3m Horizontal

Job No: : 5306CR

Mode: : 5745 Band edge

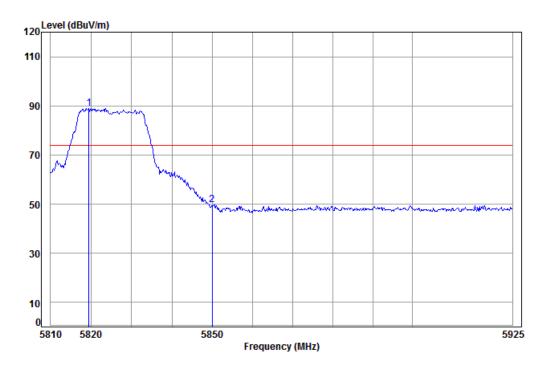
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	av	5725.000	8.48	34.24	38.92	45.82	49.62	54.00	-4.38	Average
2		5725.000	8.48	34.24	38.92	61.56	65.36	74.00	-8.64	Peak
3	pp	5751.230	8.51	34.22	38.92	92.14	95.95	74.00	21.95	Peak



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Test mode: 802.11a Frequency(MHz): 5825 Remark: Peak Vertical



Condition: 3m Vertical

Job No: : 5306CR

5850.000

Mode: : 5825 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 1 pp 5819.459 8.57 34.25 38.93 85.00 88.89 74.00 14.89 Peak

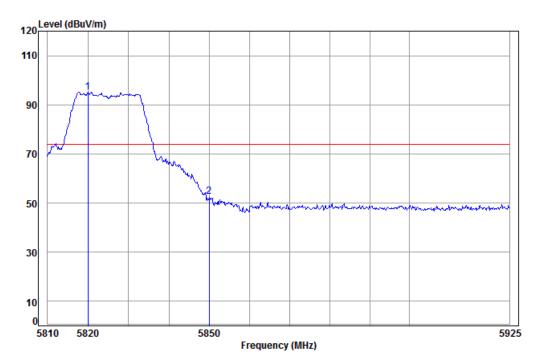
34.33 38.94 45.58 49.57 74.00 -24.43 Peak



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Test mode: 802.11a Frequency(MHz): 5825 Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 5306CR

Mode: : 5825 Band edge

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5819.916 5850.000								

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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#### 6.11 Frequency Stability

Test Requirement:	47 CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10: 2013
Test Setup:	Temperature Chamber
	Spectrum Analyzer EUT  AC/DC Power supply
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Procedure:	<ul> <li>a. The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.</li> <li>b. Turn the EUT on and couple its output to a spectrum analyzer.</li> <li>c. Turn the EUT off and set the chamber to the highest temperature specified.</li> <li>d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.</li> <li>e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.</li> <li>f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; Only the worst case is recorded in the report.



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Test mode: 802.11a Frequency(MHz): 5745

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5745.0089	8900	Pass
35		5745.0054	5400	Pass
25	120	5745.0038	3800	Pass
15	120	5745.0045	4500	Pass
5		5745.0060	6000	Pass
-5		5745.0074	7400	Pass
	138	5745.0075	7500	Pass
25	120	5745.0087	8700	Pass
	102	5745.0076	7600	Pass

Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5785.0048	4800	Pass
35		5785.0065	6500	Pass
25	120	5785.0034	3400	Pass
15	120	5785.0037	3700	Pass
5		5785.0019	1900	Pass
-5		5785.0022	2200	Pass
	138	5785.0034	3400	Pass
25	120	5785.0065	6500	Pass
	102	5785.0044	4400	Pass

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Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------

Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5825.0075	7500	Pass
35		5825.0045	4500	Pass
25	100	5825.0067	6700	Pass
15	120	5825.0088	8800	Pass
5		5825.0065	6500	Pass
-5		5825.0074	7400	Pass
	138	5825.0087	8700	Pass
25	120	5825.0065	6500	Pass
	102	5825.0076	7600	Pass



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#### 7 **Photographs - EUT Test Setup**

Test model No.: TXDX01

#### 7.1 Conducted Emission



#### 7.2 Radiated Emission

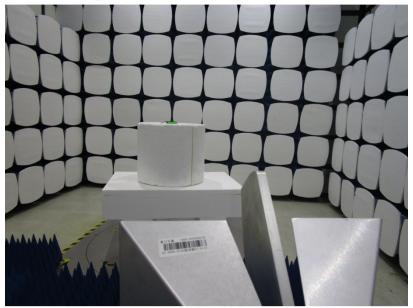




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### 7.3 Radiated Spurious Emission



### 8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1607005306CR.