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Report No.: SZEM160300165102

FCC REPORT

Application No: SZEM1603001651CR

Applicant:Xi'an Skye Intelligence Technology Co., Ltd.Manufacturer:Xi'an Skye Intelligence Technology Co., Ltd.Factory:Xi'an Skye Intelligence Technology Co., Ltd.

Product Name: Orbit
Model No.(EUT): ORBTX2

Trade Mark: **Skye** Intelligence

FCC ID: 2AHTB-20150215

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

 Date of Receipt:
 2016-05-25

 Date of Test:
 2016-06-14

 Date of Issue:
 2016-06-15

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		2016-06-15		Original			

Authorized for issue by:		
Tested By	Hank yan.	2016-06-14
	(Hank Yan) /Project Engineer	Date
Prepared By	Iris Zhou	2016-06-15
	(Iris Zhou) /Clerk	Date
Checked By	Eric Fu	2016-06-15
	(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
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	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
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
Frequency Stability	47 CFR Part 15 Section 15.407(g)	ANSI C63.10: 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Xi'an Skye Intelligence Technology Co., Ltd.
Address of Applicant:	Room 504 Block E, GLP I-Park, 211 Tiangu #8 Road, High-tech Zone, Xi'an 710077, China
Manufacturer:	Xi'an Skye Intelligence Technology Co., Ltd.
Address of Manufacturer:	Room 504 Block E, GLP I-Park, 211 Tiangu #8 Road, High-tech Zone, Xi'an 710077, China
Factory:	Xi'an Skye Intelligence Technology Co., Ltd.
Address of Factory:	Room 504 Block E, GLP I-Park, 211 Tiangu #8 Road, High-tech Zone, Xi'an 710077, China

5.2 General Description of EUT

Product Name:	Orbit				
Model No.:	ORBTX2				
Operation Frequency:	Band Mode Frequency Num Range(MHz) chan				
	UNII	IEEE 802.11a	5745-5825	5	
	Band III	IEEE 802.11n 20MHz	5745-5825	5	
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)				
Channel Numbers:	IEEE 802.1	1a/n(HT20)@5G: 5 Chanr	nels		
Sample Type:	Mobile Dev	ice			
EUT Function:	WiFi: 802.11a/n(HT20)				
Antenna Type:	PIFA Antenna				
Antenna Gain:	2dBi				
Power Supply:	DC 11.40V 5100mAh				

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 Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
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 UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 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:	50 % RH
Atmospheric Pressure:	1016 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 independent unit.

5.5 Test Location

All tests were performed at:

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

	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	ETS-Lindgren	N/A	SEM001-01	2016-05-13	2017-05-13	
2	Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2016-04-25	2017-04-25	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Double-ridged horn (1-18GHz)	ETS-Lindgren	3117	SEM003-11	2015-10-17	2018-10-17	
5	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24	
6	Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12	
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25	
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2015-10-17	2016-10-17	
9	Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640- 50	SEM005-08	2016-02-12	2017-02-12	
10	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09	
11	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13	





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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	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09	
7	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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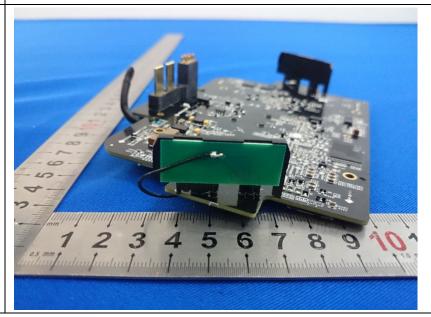
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6 Test results and Measurement Data

6.1 Antenna Requirement

Test Requirement: 47 CFR Part 15 Section 15.203

EUT Antenna:



The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 2dBi.





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6.2 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)		
Test Method:	ANSI C63.10: 2013		
Test Setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the power meter.		
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; MCS0 of rate is the worst case of 802.11n(HT20);; Only the worst case is recorded in the report.		
Limit:	Frequency Band Limit		
	5725-5850MHz Not exceed 1W(30dBm)		
	*Where B is the 26dB emission bandwidth in MHz		
Test Results:	Pass		

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Pre-scan und	Pre-scan under all rate at lowest channel 1							
Mode		802.11a						
Data Rate	6Mbps	6Mbps 9Mbps 12Mbps 18Mbps 24Mbps 36Mbps 48Mbps 54Mbps					54Mbps	
Power (dBm)	17.05	16.99	16.92	16.86	16.82	16.79	16.73	16.66
Mode		802.11n(HT20)						
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	16.86	16.80	16.73	16.66	16.62	16.57	16.55	16.54

Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20).





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Measurement Data:

	802.11a mode		
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5745	17.05	30.00	Pass
5785	17.16	30.00	Pass
5825	18.11	30.00	Pass

	802.11n(HT20) mod	е	
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5745	16.86	30.00	Pass
5785	17.07	30.00	Pass
5825	18.16	30.00	Pass





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6.3 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 1.5dB 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; MCS0 of rate is the worst case of 802.11n(HT20);; Only the worst case is recorded in the report.		
Limit:	Frequency Band Limit		
	5725-5850MHz 4W(36dBm) with 6dBi antenna		
	*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	19.05	30.00	Pass
5785	19.16	30.00	Pass
5825	20.11	30.00	Pass

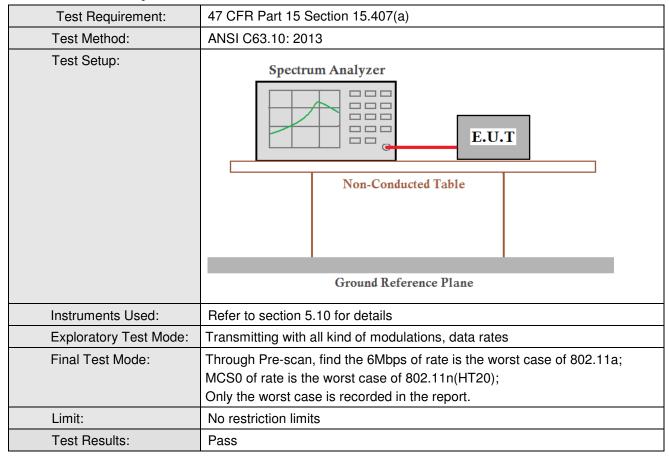
802.11n(HT20) mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5745	18.86	30.00	Pass
5785	19.07	30.00	Pass
5825	20.16	30.00	Pass



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6.4 99% Occupied Bandwidth





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Measurement Data:

802.11a mode		
Frequency (MHz)	99% Occupied Bandwidth (MHz)	
5745	16.50	
5785	16.50	
5825	16.50	

802.11n(HT20) mode		
Frequency (MHz) 99% Occupied Bandwidth (MHz)		
5745	17.64	
5785	17.64	
5825	17.58	

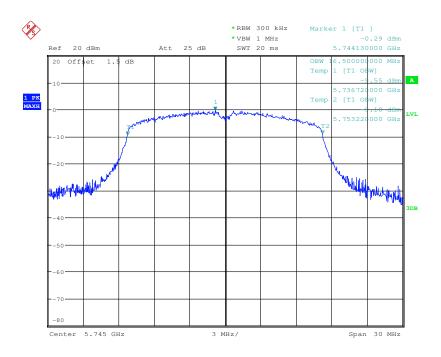




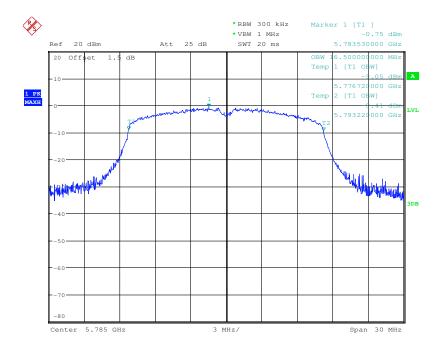
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Test plot as follows:

Test mode: 802.11a Frequency(MHz): 5745



Test mode:	802.11a	Frequency(MHz):	5785
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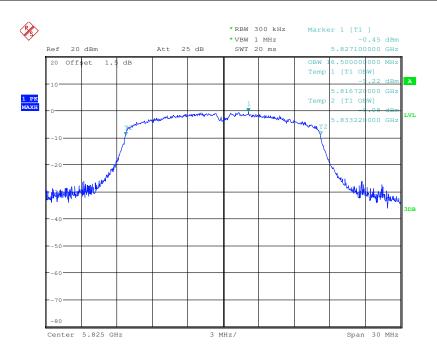




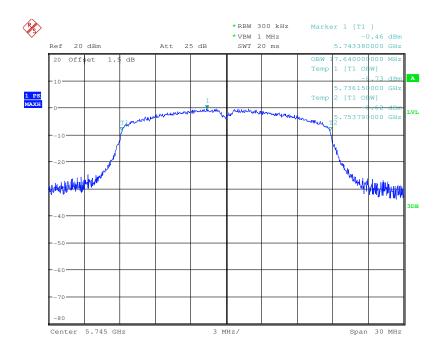
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Test mode: 802.11a Frequency(MHz): 5825



Test mode:	802.11n(HT20)	Frequency(MHz):	5745
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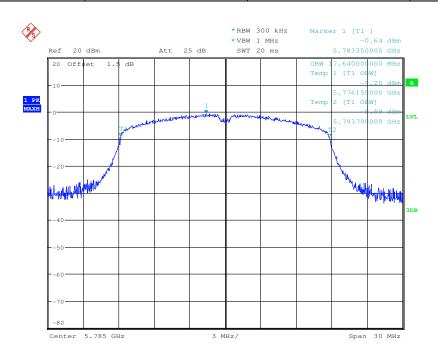




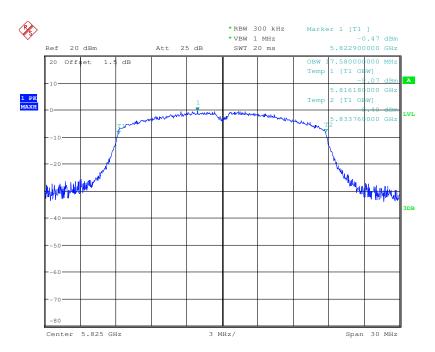


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Test mode: 802.11n(HT20) Frequency(MHz): 5785





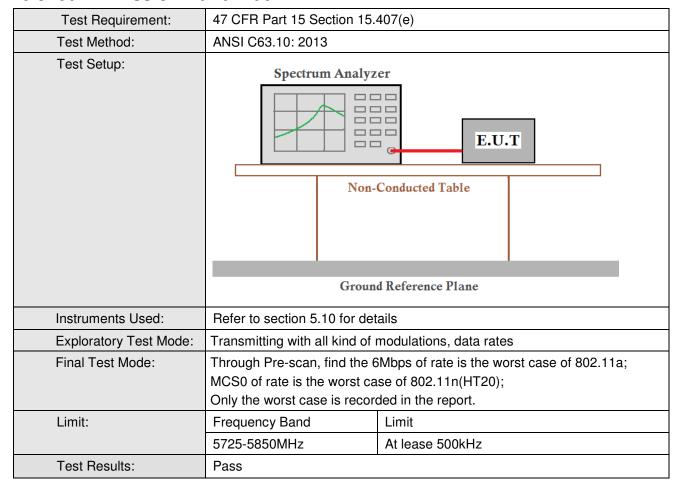




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6.5 6dB Emission Bandwidth



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Measurement Data:

802.11a mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	15.15	≥500	Pass
5785	15.15	≥500	Pass
5825	15.15	≥500	Pass

802.11n(HT20) mode							
Frequency (MHz) 6dB Occupy Bandwidth (MHz) Limit (kHz) Result							
5745	15.15	≥500	Pass				
5785	15.18	≥500	Pass				
5825	15.15	≥500	Pass				

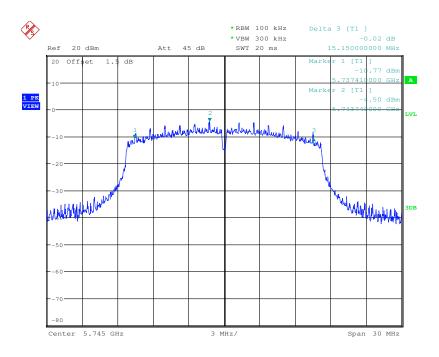




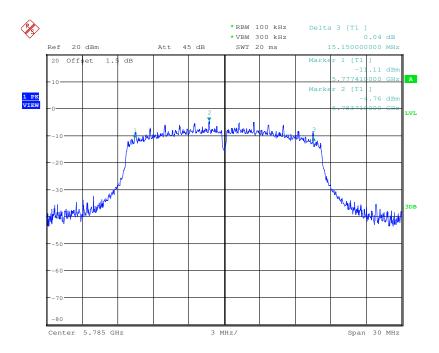
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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5745
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Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

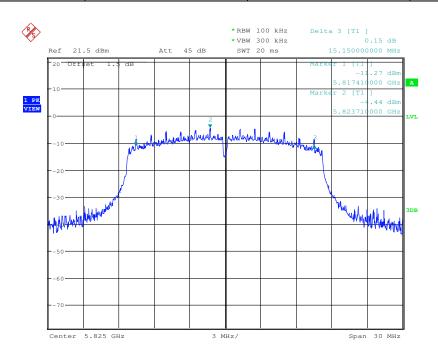




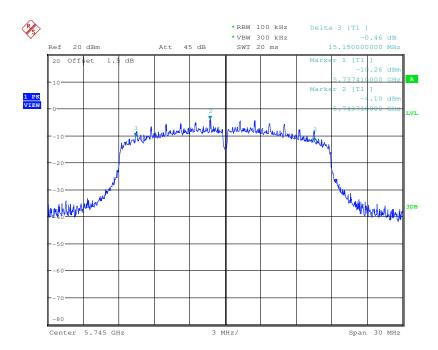


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Test mode: 802.11a Frequency(MHz): 5825





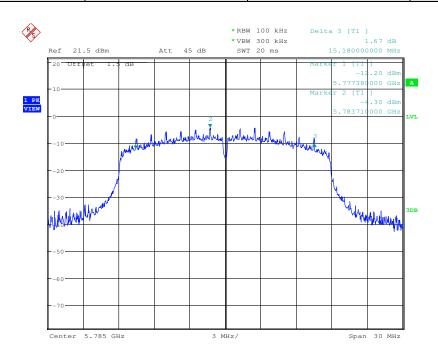




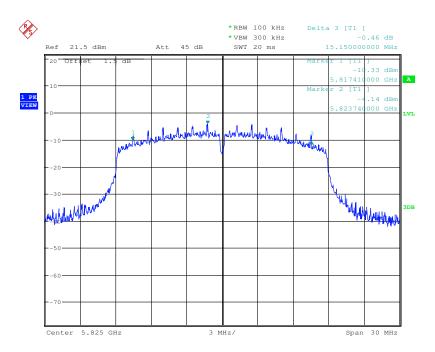


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Test mode: 802.11n(HT20) Frequency(MHz): 5785









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6.6 Power Spectral Density

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 1.5dB 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; MCS0 of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report.			
Limit:	Frequency Band Limit			
	5725-5850MHz The power spectral density less than 30dBm/500kHz			
Test Results:	Pass			

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Measurement Data:

802.11a mode						
Frequency (MHz) Power Spectral Density Limit						
5745	1.68	≤30dBm/500kHz	Pass			
5785	1.16	≤30dBm/500kHz	Pass			
5825	1.56	≤30dBm/500kHz	Pass			

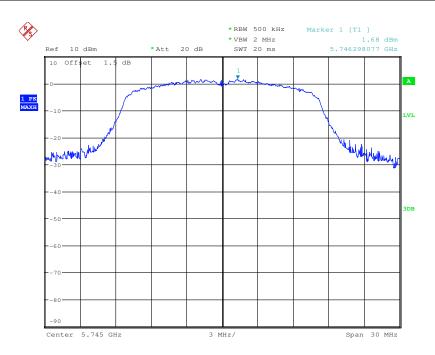
802.11n(HT20) mode						
Frequency (MHz) Power Spectral Density Limit Re						
5745	2.00	≤30dBm/500kHz	Pass			
5785	1.34	≤30dBm/500kHz	Pass			
5825	1.27	≤30dBm/500kHz	Pass			



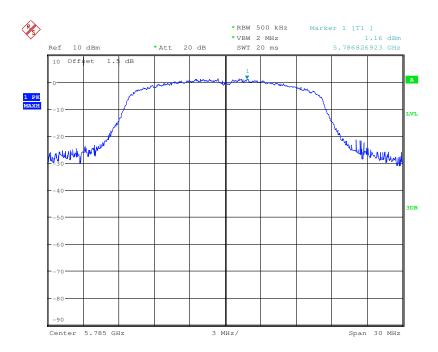
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Test plot as follows:





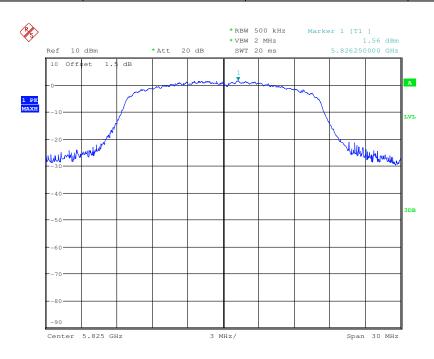




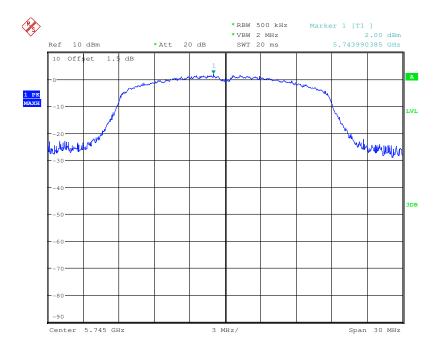


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Test mode: 802.11a Frequency(MHz): 5825





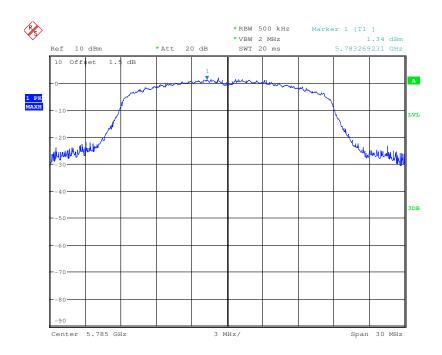




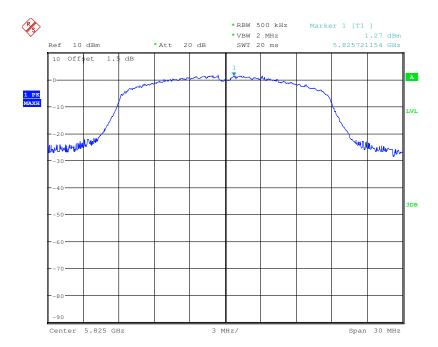


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Test mode: 802.11n(HT20) Frequency(MHz): 5785







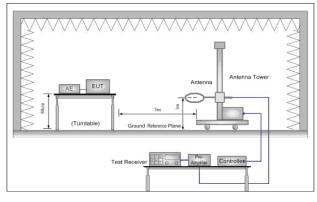


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6.7 Radiated Spurious Emissions

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



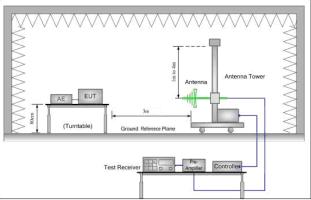


Figure 1. 30MHz	to 1GHz	Figure 2. Above 1 GHz
Test Procedure:	meters above the	est, the EUT was placed on the top of a rotating table 0.8 ground at a 3 meter semi-anechoic camber. The table degrees to determine the position of the highest radiation.
	1.5 meters above	test, the EUT was placed on the top of a rotating table the ground at a 3 meter semi-anechoic camber. The 360 degrees to determine the position of the highest
		3 meters away from the interference-receiving antenna, ed on the top of a variable-height antenna tower.
	ground to determ	tht is varied from one meter to four meters above the ine the maximum value of the field strength. Both rtical polarizations of the antenna are set to make the
	then the antenna	ed emission, the EUT was arranged to its worst case and was tuned to heights from 1 meter to 4 meters and the as turned from 0 degrees to 360 degrees to find the g.
		system was set to Peak Detect Function and Specified laximum Hold Mode.
	g. Test the EUT in the	ne outermost channels.
		asurements are performed in X, Y, Z axis positioning for le, and found the Y axis positioning which it is worse
	i. Repeat above pro	ocedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all k	ind of modulations, data rates.
Final Test Mode:	_	d the 6Mbps of rate is the worst case of 802.11a; orst case of 802.11n(HT20);



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	For below 1GHz, through Pre-scan, find the 1Mbps 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

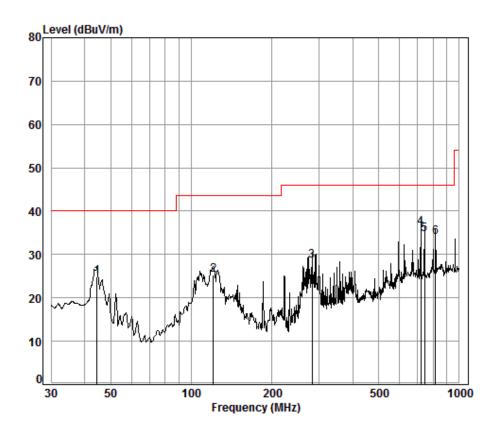


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6.7.1 Radiated emission below 1GHz

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



Condition: 3m Vertical

Job No. : 1651CR Test Mode: TX mode

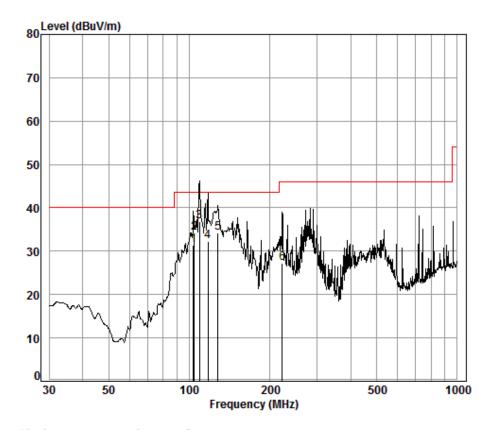
	Freq			Preamp Factor				Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.59	0.70	14.34	25.97	35.87	24.94	40.00	-15.06
2	121.12	1.26	6.79	25.87	43.16	25.34	43.50	-18.16
3	281.99	1.82	10.26	25.71	42.22	28.59	46.00	-17.41
4 pp	719.20	2.96	17.62	25.73	41.43	36.28	46.00	-9.72
5	742.26	3.03	18.25	25.75	39.18	34.71	46.00	-11.29
6	815.97	3.27	19.70	25.68	36.70	33.99	46.00	-12.01





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Test mode:	Charge +Transmitting	Horizontal
------------	----------------------	------------



Condition: 3m Horizontal

Job No. : 1651CR Test Mode: TX mode

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	103.81	1.21	7.94	25.89	48.06	31.32	43.50	-12.18
2	104.49	1.21	7.92	25.89	51.05	34.29	43.50	-9.21
3 рр	109.41	1.23	7.72	25.88	53.80	36.87	43.50	-6.63
4	117.36	1.25	6.96	25.87	49.93	32.27	43.50	-11.23
5	128.11	1.27	7.35	25.85	51.56	34.33	43.50	-9.17
6	222.17	1.53	7.86	25.75	43.65	27.29	46.00	-18.71



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6.7.2Transmitter emission above 1GHz

Test plot as follows:

Test mode: 802.11a		Freque	Frequency(MHz):		5745 Remark:		Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.18	51.67	74.00	-22.33	Vertical
9659.786	37.10	12.53	36.28	40.38	53.73	74.00	-20.27	Vertical
11490.000	37.45	14.01	36.68	35.08	49.86	74.00	-24.14	Vertical
12775.540	37.99	14.93	37.91	37.61	52.62	74.00	-21.38	Vertical
15128.660	40.63	16.67	39.58	35.58	53.30	74.00	-20.70	Vertical
17235.000	43.05	19.50	37.03	28.28	53.80	74.00	-20.20	Vertical
7678.832	36.04	10.89	37.44	43.17	52.66	74.00	-21.34	Horizontal
9659.786	37.10	12.53	36.28	40.24	53.59	74.00	-20.41	Horizontal
11490.000	37.45	14.01	36.68	34.93	49.71	74.00	-24.29	Horizontal
13217.380	38.32	15.61	38.46	35.76	51.23	74.00	-22.77	Horizontal
15504.760	40.91	17.03	38.97	33.73	52.70	74.00	-21.30	Horizontal
17235.000	43.05	19.50	37.03	28.38	53.90	74.00	-20.10	Horizontal

Test mode:	Fest mode: 802.11a		Freque	Frequency(MHz):		Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
7093.172	35.49	10.64	37.69	42.42	50.86	74.00	-23.14	4 Vertical
8990.716	37.00	11.79	37.19	39.21	50.81	74.00	-23.19	9 Vertical
11570.000	37.49	14.09	36.75	35.20	50.03	74.00	-23.9	7 Vertical
13192.440	38.29	15.60	38.42	37.29	52.76	74.00	-21.2	4 Vertical
15157.260	40.66	16.70	39.53	35.20	53.03	74.00	-20.9	7 Vertical
17355.000	43.23	19.92	37.01	27.06	53.20	74.00	-20.80	O Vertical
7106.583	35.51	10.64	37.68	42.03	50.50	74.00	-23.50) Horizontal
9007.715	37.00	11.80	37.18	40.72	52.34	74.00	-21.6	6 Horizontal
11570.000	37.49	14.09	36.75	34.07	48.90	74.00	-25.10) Horizontal
13192.440	38.29	15.60	38.42	36.48	51.95	74.00	-22.0	5 Horizontal
15157.260	40.66	16.70	39.53	34.24	52.07	74.00	-21.93	3 Horizontal
17355.000	43.23	19.92	37.01	27.24	53.38	74.00	-20.6	2 Horizontal



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Test mode: 802.11a		11a	Freque	Frequency(MHz):		Remark:	Pea	ak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	43.01	51.45	74.00	-22.55	Vertical
8990.716	37.00	11.79	37.19	38.95	50.55	74.00	-23.45	Vertical
11650.000	37.50	14.18	36.83	33.76	48.61	74.00	-25.39	Vertical
13192.440	38.29	15.60	38.42	36.37	51.84	74.00	-22.16	Vertical
15157.260	40.66	16.70	39.53	35.39	53.22	74.00	-20.78	Vertical
17475.000	43.45	20.33	36.99	26.21	53.00	74.00	-21.00	Vertical
7678.832	36.04	10.89	37.44	41.99	51.48	74.00	-22.52	Horizontal
8990.716	37.00	11.79	37.19	39.11	50.71	74.00	-23.29	Horizontal
11650.000	37.50	14.18	36.83	34.78	49.63	74.00	-24.37	Horizontal
13192.440	38.29	15.60	38.42	36.77	52.24	74.00	-21.76	Horizontal
15800.410	41.20	17.31	38.51	33.46	53.46	74.00	-20.54	Horizontal
17475.000	43.45	20.33	36.99	27.14	53.93	74.00	-20.07	Horizontal

Test mode:	Test mode: 802.11n(HT20)		Freque	Frequency(MHz):		Remark:	F	eak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
8328.564	36.40	11.58	37.27	42.56	53.27	74.00	-20.73	Vertical
9659.786	37.10	12.53	36.28	40.38	53.73	74.00	-20.27	Vertical
11490.000	37.45	14.01	36.68	35.08	49.86	74.00	-24.14	Vertical
13778.220	39.06	16.00	39.32	37.12	52.86	74.00	-21.14	Vertical
15800.410	41.20	17.31	38.51	33.09	53.09	74.00	-20.91	Vertical
17235.000	43.05	19.50	37.03	28.28	53.80	74.00	-20.20	Vertical
7678.832	36.04	10.89	37.44	43.17	52.66	74.00	-21.34	Horizontal
9659.786	37.10	12.53	36.28	40.24	53.59	74.00	-20.41	Horizontal
11490.000	37.45	14.01	36.68	33.93	48.71	74.00	-25.29	Horizontal
13804.270	39.10	16.03	39.36	37.06	52.83	74.00	-21.17	Horizontal
15800.410	41.20	17.31	38.51	32.39	52.39	74.00	-21.61	Horizontal
17235.000	43.05	19.50	37.03	28.38	53.90	74.00	-20.10	Horizontal





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Test mode:	Test mode: 802.11n(HT20)		Freque	Frequency(MHz):		5785 Remark:		Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7093.172	35.49	10.64	37.69	42.42	50.86	74.00	-23.14	Vertical	
8990.716	37.00	11.79	37.19	39.21	50.81	74.00	-23.19	Vertical	
11570.000	37.49	14.09	36.75	34.20	49.03	74.00	-24.97	Vertical	
13192.440	38.29	15.60	38.42	36.29	51.76	74.00	-22.24	Vertical	
15157.260	40.66	16.70	39.53	35.20	53.03	74.00	-20.97	Vertical	
17355.000	43.23	19.92	37.01	27.06	53.20	74.00	-20.80	Vertical	
7174.020	35.57	10.67	37.65	39.39	47.98	74.00	-26.02	! Horizontal	
9007.715	37.00	11.80	37.18	40.72	52.34	74.00	-21.66	Horizontal	
11570.000	37.49	14.09	36.75	34.07	48.90	74.00	-25.10	Horizontal	
13192.440	38.29	15.60	38.42	37.48	52.95	74.00	-21.05	Horizontal	
15157.260	40.66	16.70	39.53	35.24	53.07	74.00	-20.93	Horizontal	
17355.000	43.23	19.92	37.01	27.24	53.38	74.00	-20.62	Horizontal	

Test mode:	Test mode: 802.11n(HT20)		Frequency(MHz):		5825 Remark:		Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.02	51.51	74.00	-22.49	Vertical
9659.786	37.10	12.53	36.28	40.32	53.67	74.00	-20.33	Vertical
11650.000	37.50	14.18	36.83	33.76	48.61	74.00	-25.39	Vertical
13192.440	38.29	15.60	38.42	37.37	52.84	74.00	-21.16	Vertical
15157.260	40.66	16.70	39.53	35.39	53.22	74.00	-20.78	Vertical
17475.000	43.45	20.33	36.99	26.21	53.00	74.00	-21.00	Vertical
7678.832	36.04	10.89	37.44	41.99	51.48	74.00	-22.52	Horizontal
8990.716	37.00	11.79	37.19	39.11	50.71	74.00	-23.29	Horizontal
11650.000	37.50	14.18	36.83	32.78	47.63	74.00	-26.37	Horizontal
13192.440	38.29	15.60	38.42	36.77	52.24	74.00	-21.76	Horizontal
15128.660	40.63	16.67	39.58	34.38	52.10	74.00	-21.90	Horizontal
17475.000	43.45	20.33	36.99	27.14	53.93	74.00	-20.07	Horizontal





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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.

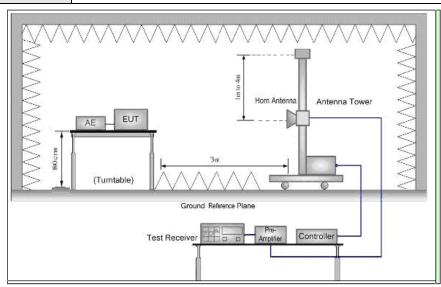


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6.8 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.	7 CFR Part 15 Section 15.407(b)						
Test Method:	ANSI C63.10: 2013	NSI C63.10: 2013						
Test Site:	Measurement Distance: 3m	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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Test Procedure:	 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 Y axis positioning which it is worse case.				
	 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;				
	MCS0 of rate is the worst case of 802.11n(HT20);				
	Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				



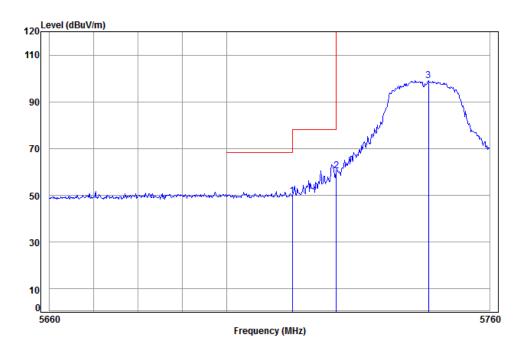


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Test plot as follows:

802.11a:

Worse case mode:	Test channel:	5745	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No: : 1651CR

Mode: : 5745 Band edge

: A20

1

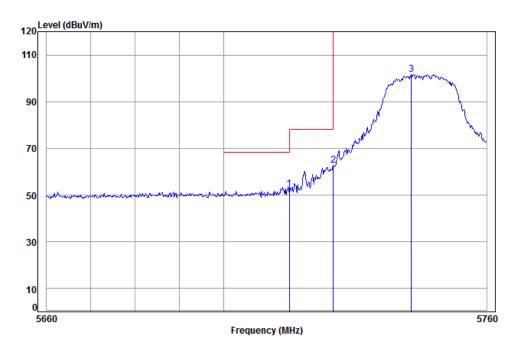
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line MHz dB dB/m dBuV dBuV/m dBuV/m 5715.000 8.47 34.24 38.91 45.93 49.73 68.20 -18.47 2 pp 5725.000 8.48 34.24 38.92 56.58 60.38 78.20 -17.82 38.92 95.13 98.94 125.20 -26.26 5745.995 8.50 34.23





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Worse case mode:		Test channel:	5745	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 1651CR

Mode: : 5745 Band edge

: A20

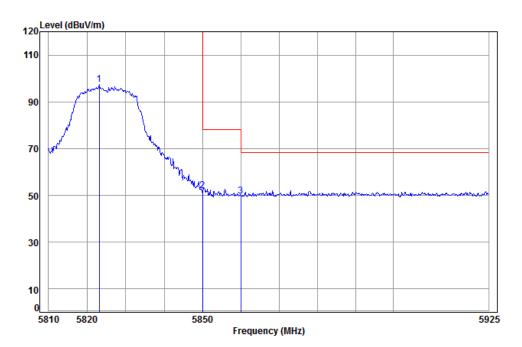
	Freq		Preamp Factor			Remark	
		 	——dB	 	 		_
	5715.000 5725.000						
	5742.775						





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Worse case mode:	Test channel:	5825	Remark:	Peak	Vertical	ĺ
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Condition: 3m VERTICAL Job No: : 1651CR

Mode: : 5825 Band edge

: A20

 Cable
 Ant Preamp
 Read
 Limit
 Over

 Freq
 Loss Factor
 Factor
 Level
 Line
 Limit
 Remark

 MHz
 dB
 dB/m
 dB
 dBuV
 dBuV/m
 dBuV/m
 dB

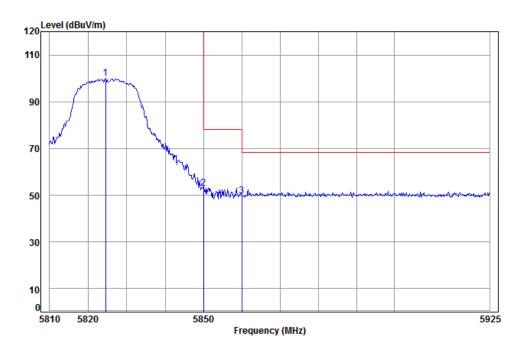
1 5823.110 8.578 34.259 38.932 93.481 97.386125.200-27.814 2 5850.000 8.605 34.327 38.936 48.154 52.150 78.200-26.050 3 pp 5860.000 8.614 34.352 38.938 45.764 49.792 68.200-18.408





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Worse case mode:	Test channel:	5825	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No: : 1651CR

Mode: : 5825 Band edge

: A20

1 5824.480 8.579 34.262 38.932 96.113100.022125.200-25.178 2 5850.000 8.605 34.327 38.936 49.020 53.016 78.200-25.184 3 pp 5860.000 8.614 34.352 38.938 45.774 49.802 68.200-18.398

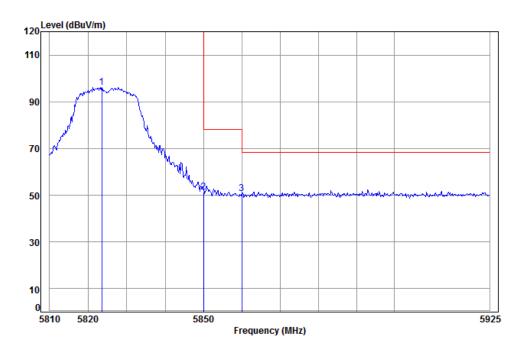




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802.11n(HT20):

Worse case mode:	Test channel: 5	745 Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 1651CR

Mode: : 5825 Band edge

: N20

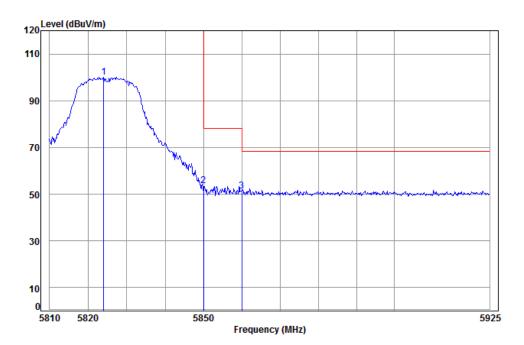
1 5823.567 8.578 34.260 38.932 92.327 96.233125.200-28.967 2 5850.000 8.605 34.327 38.936 47.500 51.496 78.200-26.704 3 pp 5860.000 8.614 34.352 38.938 46.712 50.740 68.200-17.460





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Worse case mode:		Test channel:	5745	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 1651CR

Mode: : 5825 Band edge

: N20

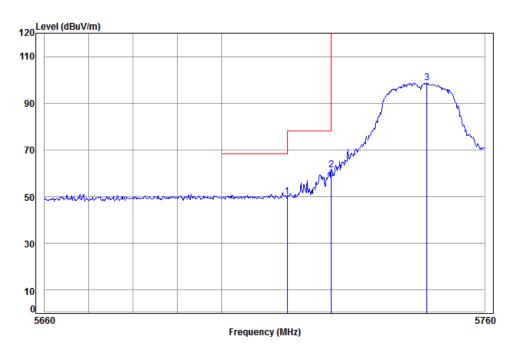
1 5824.024 8.579 34.261 38.932 96.292100.200125.200-25.000 2 5850.000 8.605 34.327 38.936 49.645 53.641 78.200-24.559 3 pp 5860.000 8.614 34.352 38.938 47.468 51.496 68.200-16.704





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Worse case mode:	Test channel:	5825	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No: : 1651CR

Mode: : 5745 Band edge

: N20

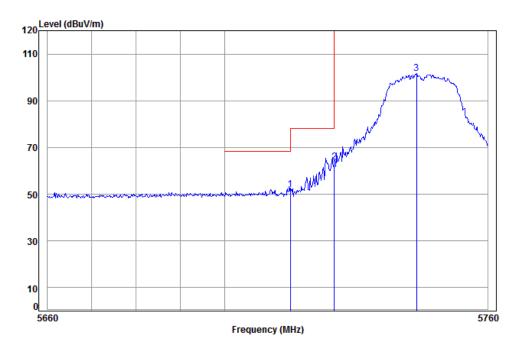
	. 1120								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	8.47	34.24	38.91	46.25	50.05	68.20	-18.15	
2 pp	5725.000	8.48	34.24	38.92	57.75	61.55	78.20	-16.65	
3	5746.800	8.50	34.23	38.92	95.02	98.83	125.20	-26.37	





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Worse case mode:	Test channel:	5825	Remark:	Peak	Horizontal



Condition: 3m HORIZONTAL

Job No: : 1651CR

Mode: : 5745 Band edge

: N20

		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	5715.000	8.47	34.24	38.91	48.23	52.03	68.20	-16.17	
2 pp	5725.000	8.48	34.24	38.92	60.02	63.82	78.20	-14.38	
3	5743.781	8.50	34.23	38.92	97.79	101.60	125.20	-23.60	

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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6.9 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:	 a. The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. 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. 			
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; MCS0 of rate is the worst case of 802.11n(HT20); Only the worst case is recorded in the report.			



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Test plot as follows:

Test mode:	8	802.11a	a Frequency(MHz): 5745		5		
Temperature (°C)	Vol	ltage(VDC)	Meas	surement Frequency(MHz)		Result	
35				5747.4834		Pass	
25				5747.4840		Pass	
15		11.40	5747.4841			Pass	
5				5747.4838		Pass	
0				5747.4828		Pass	
20		10.80	5747.4837		5747.4837		Pass
		11.40	5747.4840		Pass		
		13.05		5747.4846		Pass	

Test mode:	802.11a	Frequency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35		5784.3697	Pass
25		5784.3700	Pass
15	11.40	5784.3706	Pass
5		5784.3698	Pass
0		5784.3696	Pass
20	10.80	5784.3690	Pass
	11.40	5784.3700	Pass
	13.05	5784.3710	Pass

Test mode:		802.11a		Frequency(MHz): 5825		5	
Temperature (℃)	>	oltage(VDC)	Mea	surement Frequency(M	Hz)	Result	
35				5824.3692		Pass	
25				5824.3700		Pass	
15		11.40		5824.3709	Pass		
5				5824.3706		Pass	
0				5824.3703		Pass	
20		10.80	5824.3696		5824.3696		
		11.40	5824.3700		5824.3700		Pass
		13.05		5824.3709	·	Pass	





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Test mode:	802.	.11n(HT20)		Frequency(MHz):	5745	j
Temperature (℃)	Voltage	e(VDC)	Mea	Measurement Frequency(MHz)		Result
35				5743.7170		Pass
25				5743.7180		Pass
15	11	.40		5743.7183		Pass
5				5743.7178		Pass
0				5743.7172		Pass
20	10	.80		5743.7179		Pass
	11	.40	5743.7180		Pass	
	13	.05		5743.7182		Pass

Test mode:	802.11n(HT20	Frequency(MHz):	5785
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Result
35		5782.4795	Pass
25		5782.4800	Pass
15	11.40	5782.4806	Pass
5		5782.4798	Pass
0		5782.4789	Pass
20	10.80	5782.4793	Pass
	11.40	5782.4800	Pass
	13.05	5782.4809	Pass

Test mode:	Test mode: 802.11n(HT20)			Frequency(MHz): 5825		5	
Temperature (°C)	>	oltage(VDC)	Mea	surement Frequency(MHz)		Result	
35				5823.7393		Pass	
25				5823.7400		Pass	
15		11.40	5823.7401		.40 5823.7401 Pa		Pass
5				5823.7397		Pass	
0				5823.7389		Pass	
20		10.80	5823.7394		5823.7394		
		11.40	5823.7400		Pass		
		13.05		5823.7403	·	Pass	



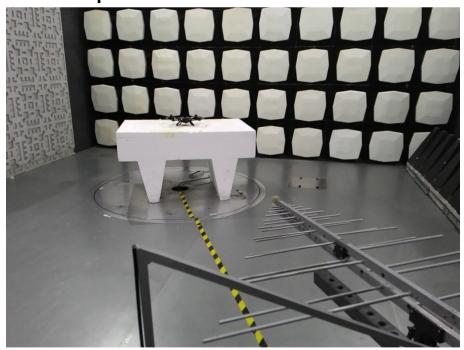


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7 Photographs - EUT Test Setup

Test model No.: ORBTX2

7.1 Radiated Spurious Emission









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8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1603001651CR.