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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

# **FCC/IC Test Report**

CQSZ20180500204EW-01 Report No.:

Hangzhou Great Star Industrial Co., Ltd. Applicant:

**Address of Applicant:** No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China

Manufacturer: Hangzhou Great Star Industrial Co., Ltd.

Address of No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China

Manufacturer:

Tested By:

**Equipment Under Test (EUT):** 

**Product:** Security Keypad

Model No.: iL02\_1 **Brand Name:** íris

FCC ID: 2AMI2IL02 IC: 22853-IL02

Standards: 47 CFR Part 15, Subpart C

RSS-247 Issue 2 February 2017

RSS-Gen Issue 5 Nov 2018

Date of Test: 2018-06-01 to 2018-06-19

Date of Issue: 2018-06-19

**Test Result:** PASS\*

Reviewed By:

Owen Zhou)

Approved By:

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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# 2 Version

## **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQSZ20180500204EW-01	Rev.01	Initial report	2018-06-19



# 3 Test Summary

Test Item	Test Requirement	Test method	Result
	47 CFR Part 15, Subpart C Section		
Antenna Requirement	15.203/15.247 (c),	ANSI C63.10 2013	PASS
	RSS-Gen Issue 5		
AC Power Line	47 CFR Part 15, Subpart C Section		
Conducted	15.207,	ANSI C63.10 2013	N/A
Emission	RSS-Gen Issue 5		
Conducted Peak &	47 CFR Part 15, Subpart C Section		
Average Output	15.247 (b)(3),	KDB558074 D01 v04	PASS
Power	RSS 247 5.4(4)		
6dB Occupied	47 CFR Part 15, Subpart C Section		
Bandwidth	15.247 (a)(2),	KDB558074 D01 v04	PASS
Balluwidili	RSS 247 5.2(1)		
99% Occupied Bandwidth	RSS-Gen Issue 5	RSS-Gen Issue 5	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e),	KDB558074 D01 v04	PASS
	RSS 247 5.2(2)		
David adva for DE	47 CFR Part 15, Subpart C Section		
Band-edge for RF	15.247(d),	KDB558074 D01 v04	PASS
Conducted Emissions	RSS 247 5.5		
DE Conducted Spurious	47 CFR Part 15, Subpart C Section		
RF Conducted Spurious Emissions	15.247(d),	KDB558074 D01 v04	PASS
EIIIISSIOIIS	RSS 247 5.5		
Radiated Spurious	47 CFR Part 15, Subpart C Section		
•	15.205/15.209,	ANSI C63.10 2013	PASS
Emissions	RSS-Gen Issue 5		
Restricted bands around	47 CFR Part 15, Subpart C Section		
fundamental frequency	15.205/15.209,	ANSI C63.10 2013	PASS
(Radiated Emission)	RSS-Gen Issue 5		

N/A: Not Applicable





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# 5 General Information

# **5.1 Client Information**

Applicant:	Hangzhou Great Star Industrial Co., Ltd.
Address of Applicant:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China
Manufacturer:	Hangzhou Great Star Industrial Co., Ltd.
Address of Manufacturer:	No.35, Jiuhuan Road, Jiubao Town, Jianggan District, Hangzhou 310019, China

## 5.2 General Description of EUT

in Control Decomption of Lo.		
Product Name:	Security Keypad	
Model No.:	iL02_1	
Trade Mark:	íris	
Hardware version:	100	
Software version:	268460592(hex:0x10006230)	
Operation Frequency:	2405~2480MHz	
Channel Numbers:	16	
Channel Separation:	5MHz	
Type of Modulation:	O-QPSK	
Sample Type:	Mobile production	
Test Software of EUT:	Secure CRT (manufacturer declare )	
Antenna Type:	PCB antenna	
Antenna Gain:	0.3dBi	
Power Supply:	4*AA battery, DC6V	



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Operation F	requency each	of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
11	2405MHz	15	2425MHz	19	2445MHz	23	2465MHz
12	2410MHz	16	2430MHz	20	2450MHz	24	2470MHz
13	2415MHz	17	2435MHz	21	2455MHz	25	2475MHz
14	2420MHz	18	2440MHz	22	2460MHz	26	2480MHz

#### Note:

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

Channel	Frequency
The Lowest channel	2405MHz
The Middle channel	2440MHz
The Highest channel	2480MHz

### Note:

Software (Secure CRT) provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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### 5.3 Test Environment and Mode

Operating Enviro	Operating Environment:		
Temperature:	24.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1008 mbar		
Test mode:			
Transmitting mode:	Continuous traffic was generated using test commands. The device was programmed to transmit at 100% duty cycle at low, middle, and high channels		

### 5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	ID
AC/DC Adapter	Lenovo	PA-1450-55LN	Provide by lab	DOC

### 5.5 Test Location

All tests were performed at:

#### Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

### 5.6 Test Facility

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

#### • CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology 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.

#### • ISED Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology 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.:522263



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### 5.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±5.12dB	(1)
Radiated Emission	Above 1GHz	±4.60dB	(1)
Conducted Disturbance	0.15~30MHz	±3.34dB	(1)

<sup>(1)</sup>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 5.8 Deviation from Standards

None.

### 5.9 Abnormalities from Standard Conditions

None.

### 5.10 Other Information Requested by the Customer

None.





# 5.11 Equipment List

Item	Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Due Date
1	EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/24
2	Spectrum analyzer	R&S	FSU26	CQA-038	2018/9/24
3	Preamplifier	MITEQ	AFS4-00010300- 18-10P-4	CQA-035	2018/9/24
4	Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2018/9/24
5	Loop antenna	ZHINAN	ZN30900A	CQA-087	2019/3/21
6	Bilog Antenna	R&S	HL562	CQA-011	2018/9/24
7	Horn Antenna	R&S	HF906	CQA-012	2018/9/24
8	Horn Antenna	R&S	BBHA 9170	CQA-088	2018/9/24
9	Coax cable (9KHz~40GHz)	CQA	RE-low-01	CQA-077	2018/9/24
10	Coax cable (9KHz~40GHz)	CQA	RE-high-02	CQA-078	2018/9/24
11	Antenna Connector	CQA	RFC-01	CQA-080	2018/9/24
12	RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/24
13	Power Sensor	Anritsu	MA2411B	CQA-089	2018/9/24
14	Wideband Peak Power Meter	Anritsu	ML2495A	CQA-090	2018/9/24
15	Power divider	CQA	PWD-2533-02- SMA-79	CQA-067	2018/9/29

### Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





### 6 Test results and Measurement Data

### 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c),

RSS-Gen Issue 5

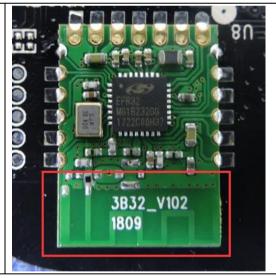
15.203 requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**



The antenna is PCB antenna. The best case gain of the antenna is 0.3dBi.



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# 6.2 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3),		
	RSS 247 5.4(4)		
Test Method:	KDB558074 D01 v04		
Test Setup:	EUT Power Meter		
Test Mode:	Transmitting with O-QPSK at lowest, middle and highest channel.		
Limit:	30dBm		
Test Results:	Pass		

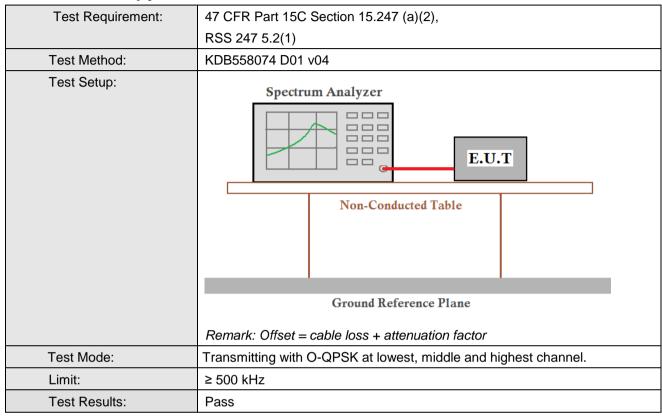
#### **Measurement Data**

O-QPSK mode								
Test channel	Peak Output Power	Limit (dBm)	Result					
	(dBm)	Power (dBm)						
Lowest	16.93	16.67	30.00	Pass				
Middle	17.01	16.76	30.00	Pass				
Highest	16.97	16.73	30.00	Pass				





# 6.3 6dB Occupy Bandwidth

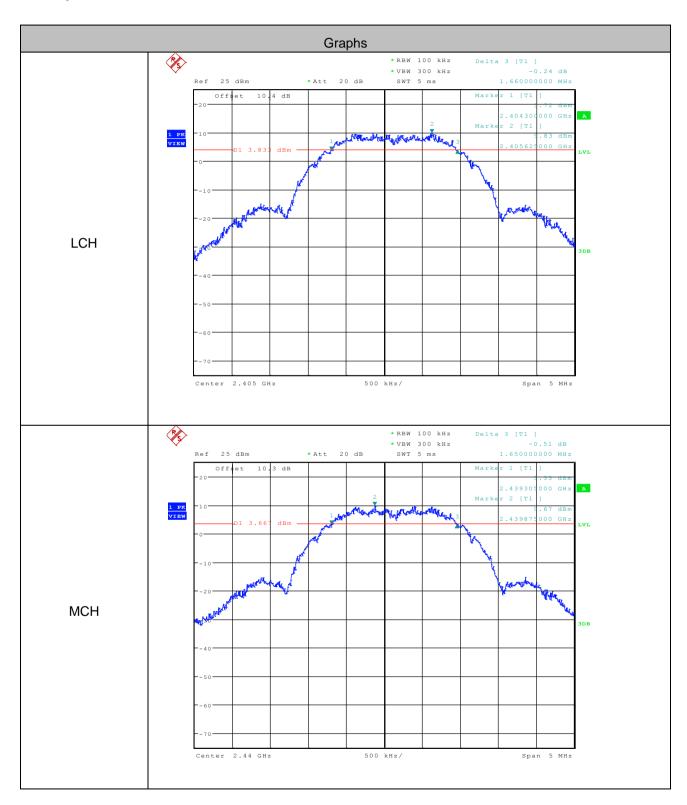


#### **Measurement Data**

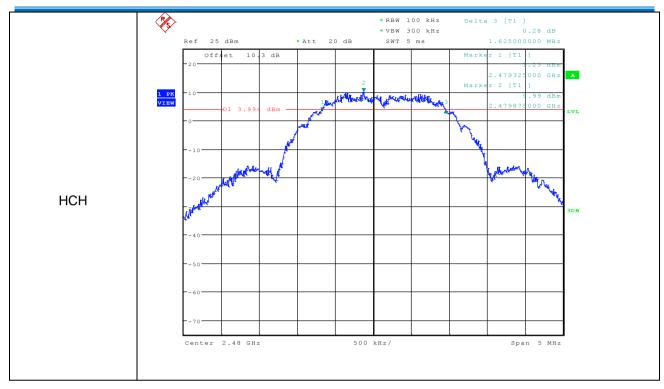
O-QPSK mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	1.660	≥500	Pass				
Middle	1.650	≥500	Pass				
Highest	1.625	≥500	Pass				



### Test plot as follows:



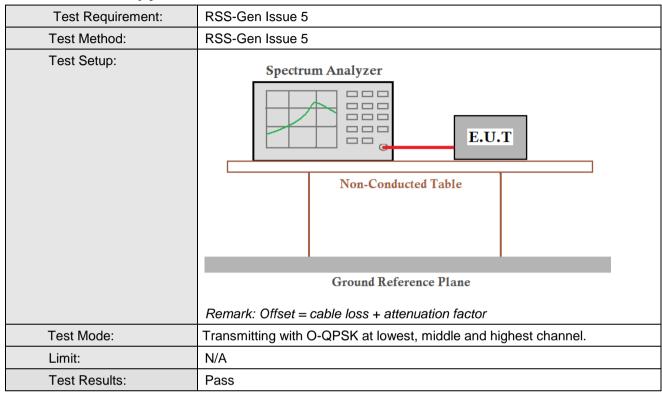






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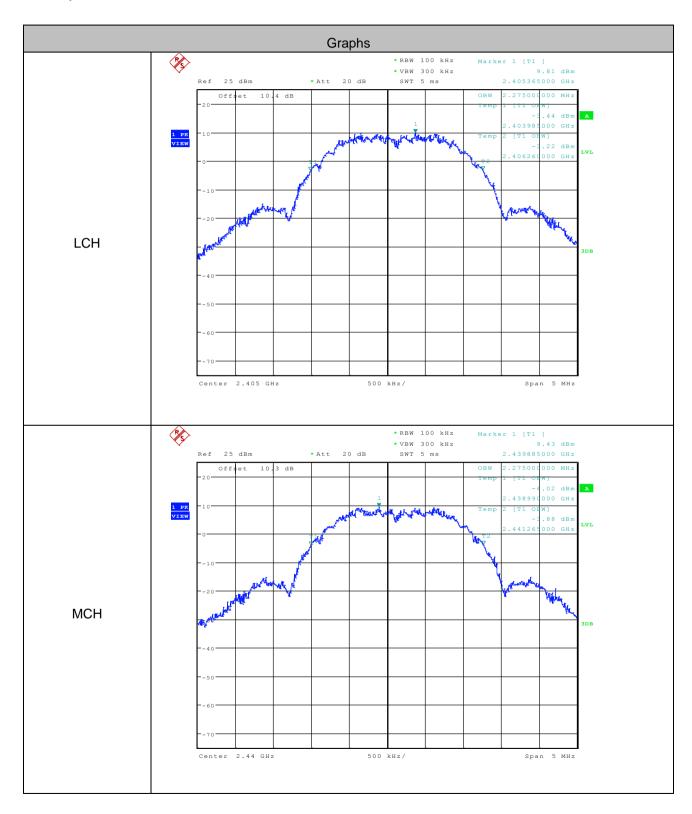
# 6.4 99% Occupy Bandwidth



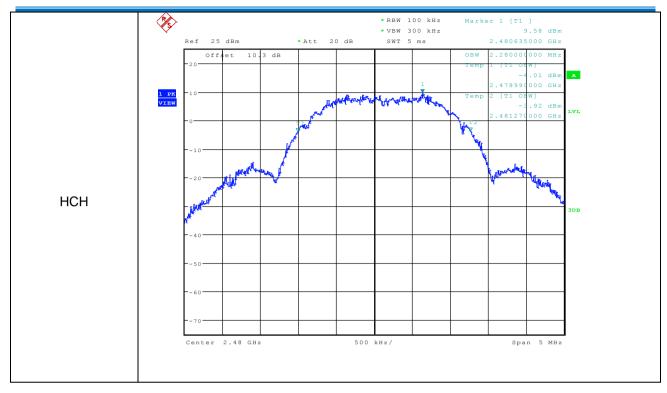
#### **Measurement Data**

	O-QPSK mode		
Test channel	99% Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	2.275		Pass
Middle	2.275		Pass
Highest	2.280		Pass

### Test plot as follows:



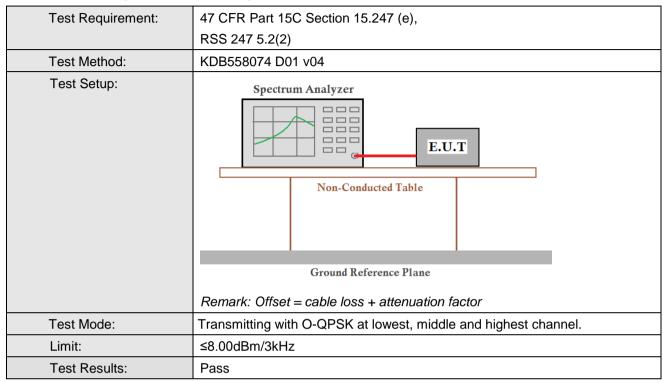






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# 6.5 Power Spectral Density

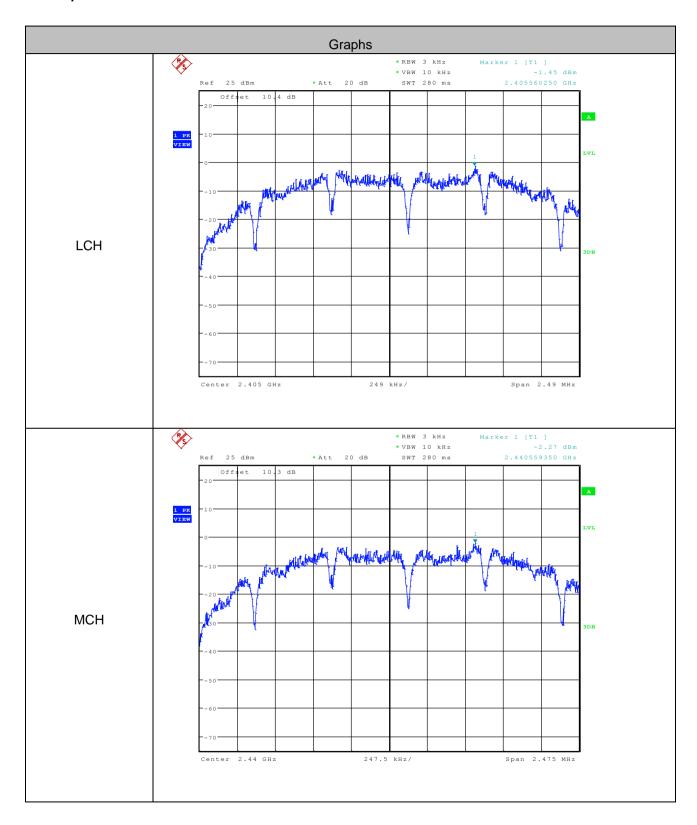


#### **Measurement Data**

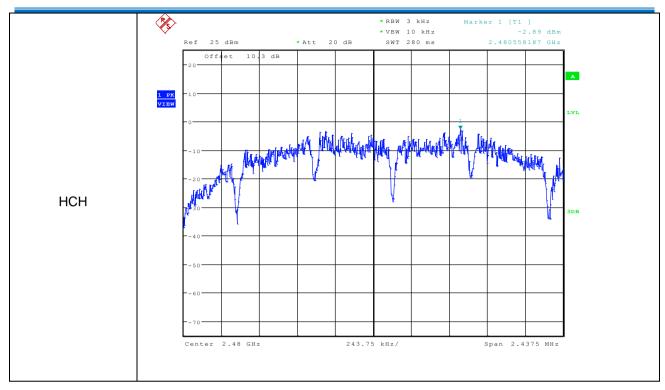
	O-QPSK mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-1.45	≤8.00	Pass					
Middle	-2.27	≤8.00	Pass					
Highest	-2.89	≤8.00	Pass					



### Test plot as follows:



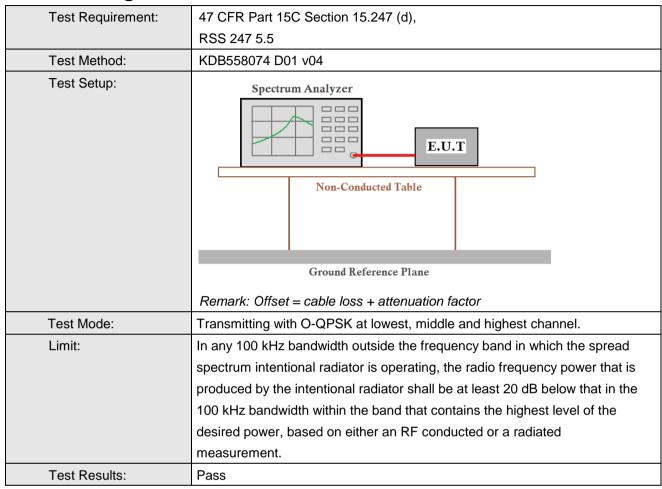






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## 6.6 Band-edge for RF Conducted Emissions

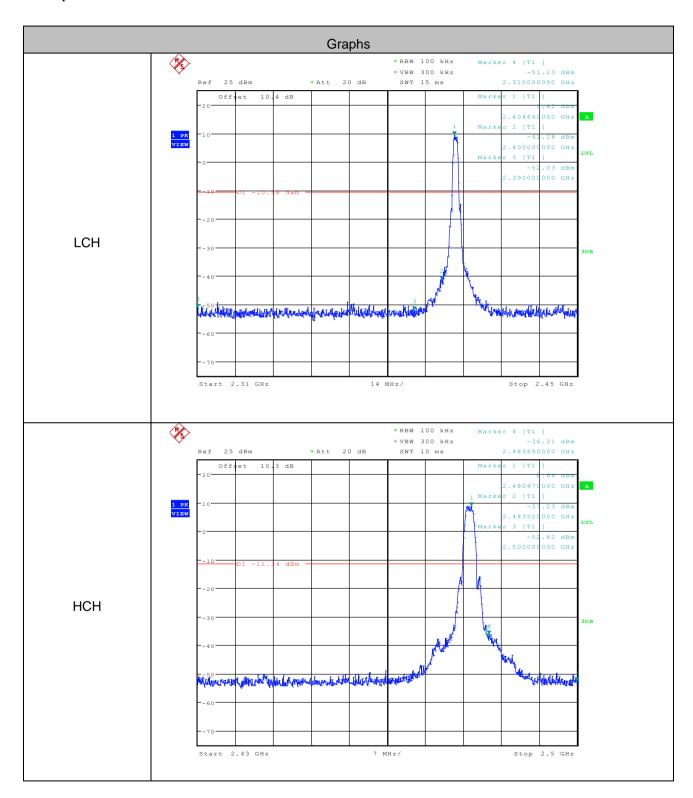


#### **Test Data:**

O-QPSK Test mode							
Test channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result			
Lowest	2400	-40.047	-10.58	Pass			
Highest	2483.5	-36.211	-11.34	Pass			



### Test plot as follows:





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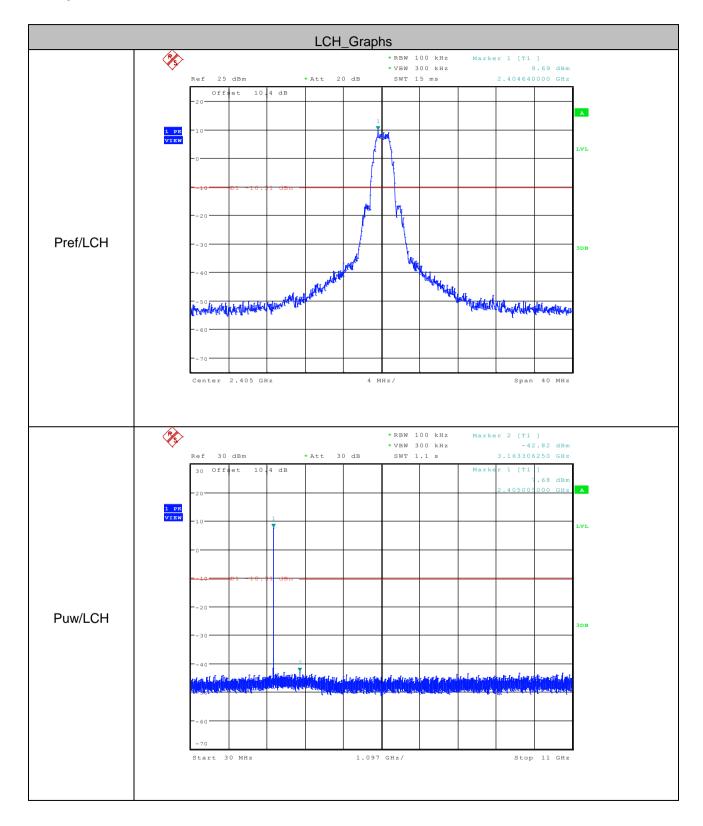
# **6.7 RF Conducted Spurious Emissions**

Test Requirement:	47 CFR Part 15C Section 15.247 (d),
	RSS 247 5.5
Test Method:	KDB558074 D01 v04
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane  Remark: Offset = cable loss + attenuation factor
Test Mode:	Transmitting with O-QPSK at lowest, middle and highest channel.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

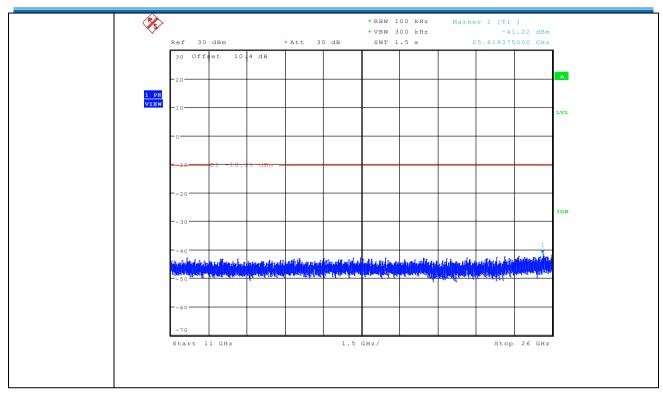


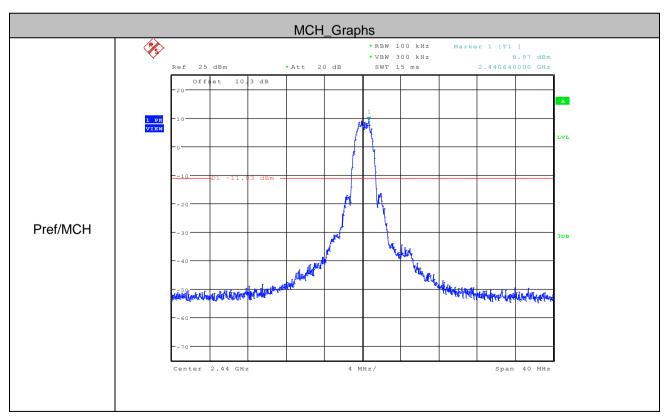
Report No.: CQSZ20180500204EW-01

### Test plot as follows:

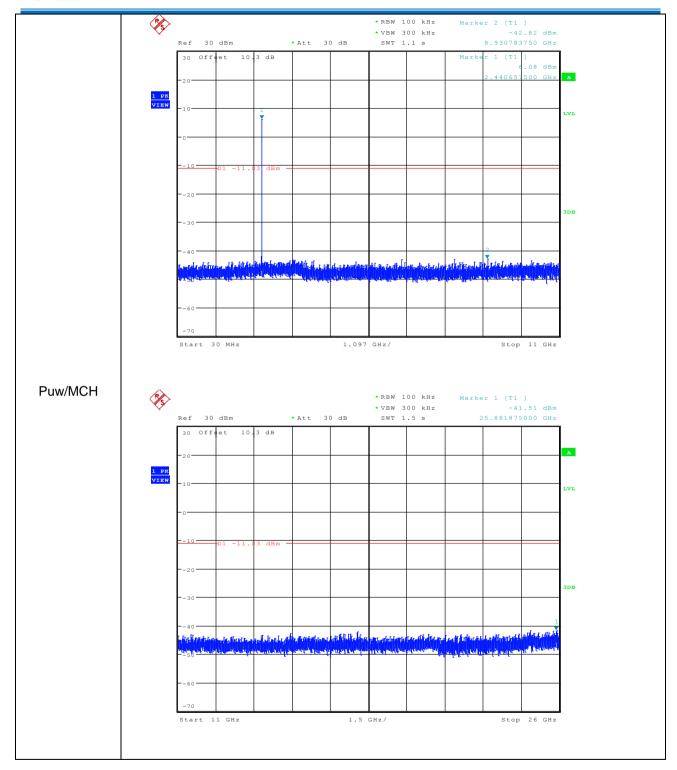




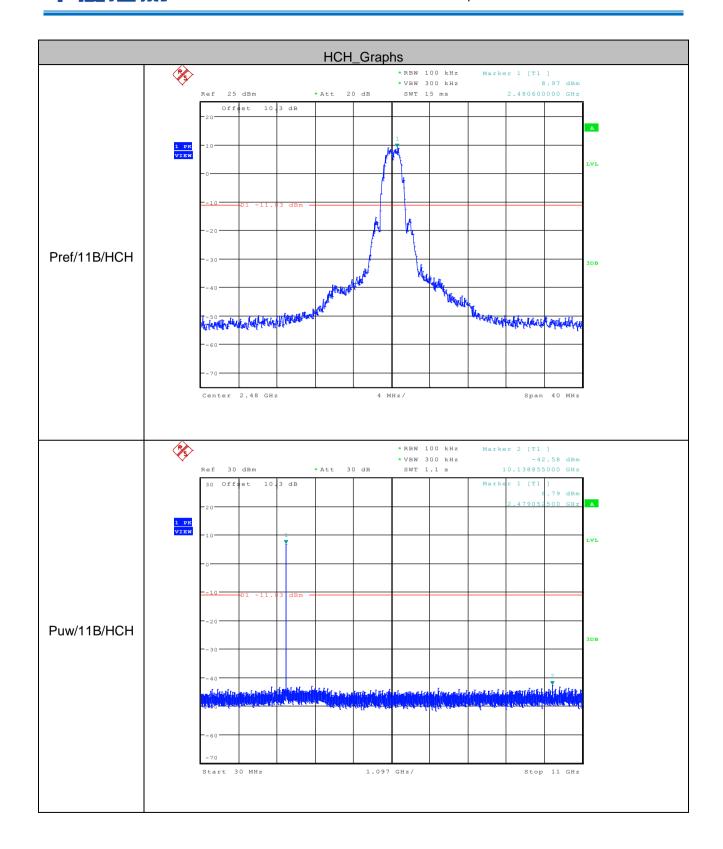






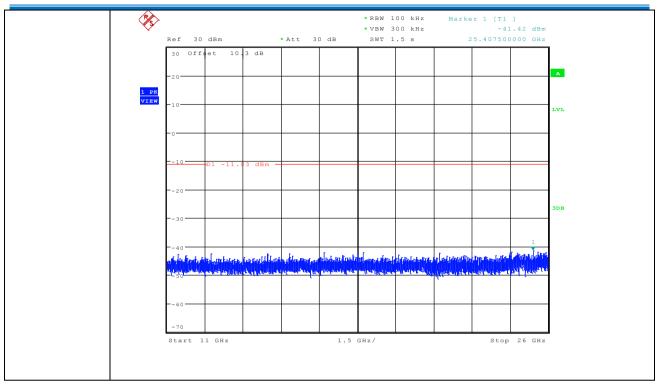








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### Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



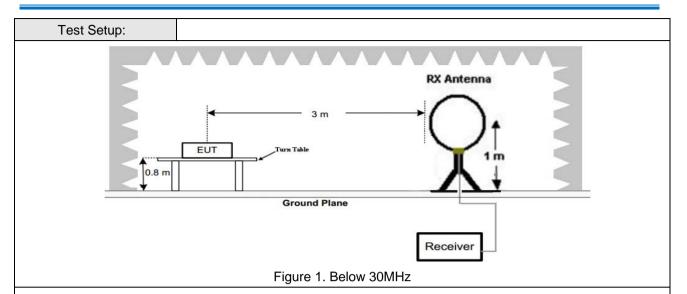
Report No.: CQSZ20180500204EW-01

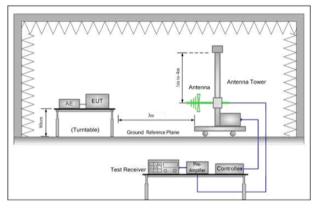
# 6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205,						
	RSS-Gen Issue 5						
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance:	3m (Semi-Anechoi	c Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak		
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average		
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak		
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average		
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above 1G112	Peak	1MHz	10Hz	Average		
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz 500 54.0 Average 3						
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						



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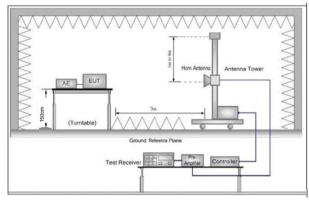


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

1) Below 1G: The EUT was placed on the top of a rotating table 0.8

#### Test Procedure:

- 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. 2) Above 1G: 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. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m
- 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.

to 4 m above the ground or reference ground plane.

- 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(for

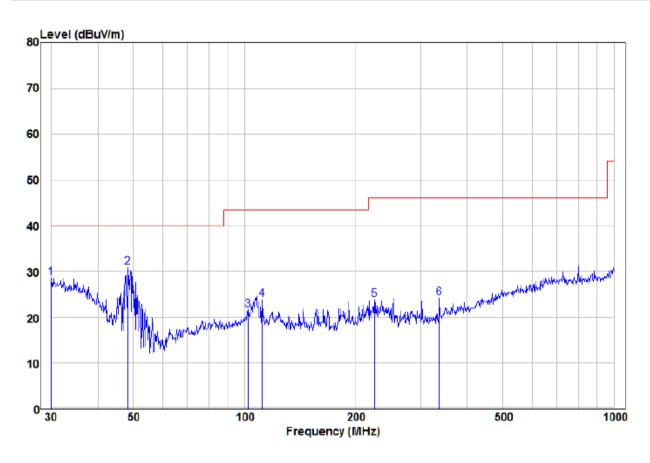


	the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.	
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.	
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.	
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel	
	h. Repeat above procedures until all frequencies measured was complete.	
Test Mode:	Transmitting with O-QPSK at lowest, middle and highest channel.	
Final Test Mode:	For below 1GHz, through Pre-scan, find at middle channel is the worst case.	
	Only the worst case is recorded in the report.	
Test Results:	Pass	



### 6.8.1 Radiated emission below 1GHz

30MHz~1GHz_the worst case(Middle)					
Test mode:	Transmitting	Vertical			

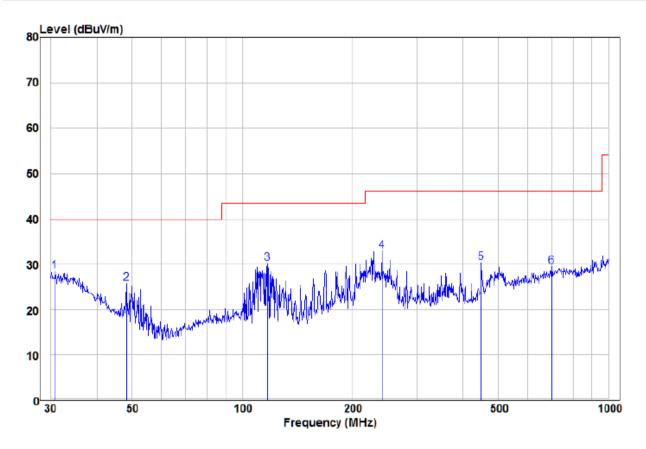


		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
_	MHZ	dBuV		dBuV/m	dBuV/m	dB		
			<i>ab</i> ,	aza,	abav,			
1	30.00	10.04	18.60	28.64	40.00	-11.36	Peak	VERTICAL
2 pp	48.33	20.92	9.93	30.85	40.00	-9.15	Peak	VERTICAL
3	102.00	11.59	10.04	<b>21.6</b> 3	43.50	-21.87	Peak	VERTICAL
4	111.35	14.07	9.85	23.92	43.50	-19.58	Peak	VERTICAL
5	224.52	15.18	8.70	23.88	46.00	-22.12	Peak	VERTICAL
6	337.22	12.63	11.55	24.18	46.00	-21.82	Peak	VERTICAL



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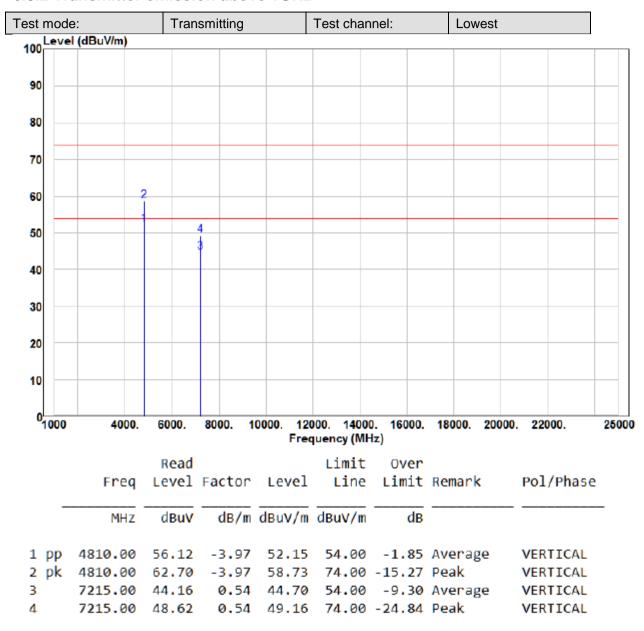
Test mode: Transmitting Horizontal



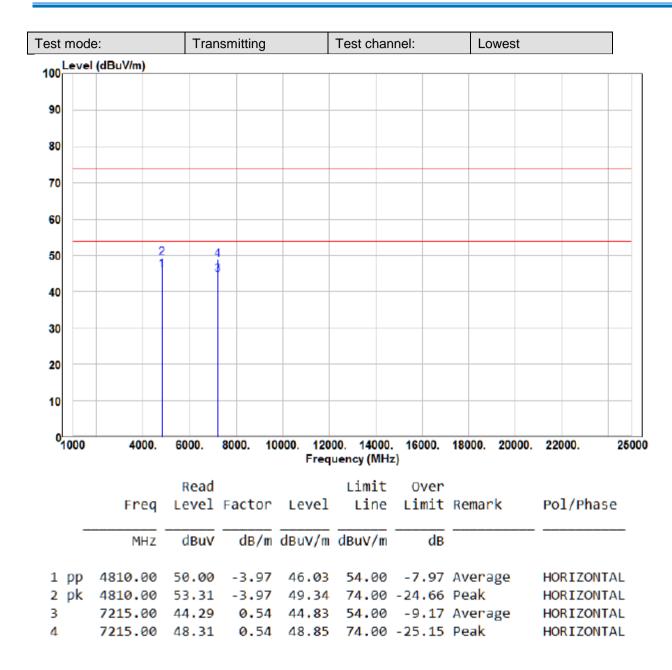
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	дв		
1 pp	30.75	9.92	18.54	28.46	40.00	-11.54	Peak	HORIZONTAL
2	48.16	15.79	10.02	25.81	40.00	-14.19	Peak	HORIZONTAL
3	116.95	20.07	10.08	30.15	43.50	-13.35	Peak	HORIZONTAL
4	239.99	24.71	8.30	33.01	46.00	-12.99	Peak	HORIZONTAL
5	449.56	15.82	14.59	30.41	46.00	-15.59	Peak	HORIZONTAL
6	699.30	11.14	18.30	29.44	46.00	-16.56	Peak	HORIZONTAL



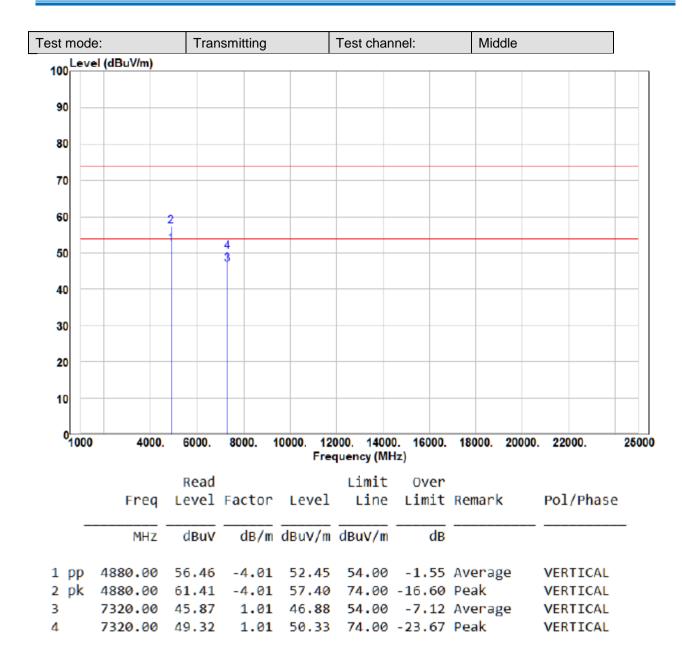
### 6.8.2 Transmitter emission above 1GHz





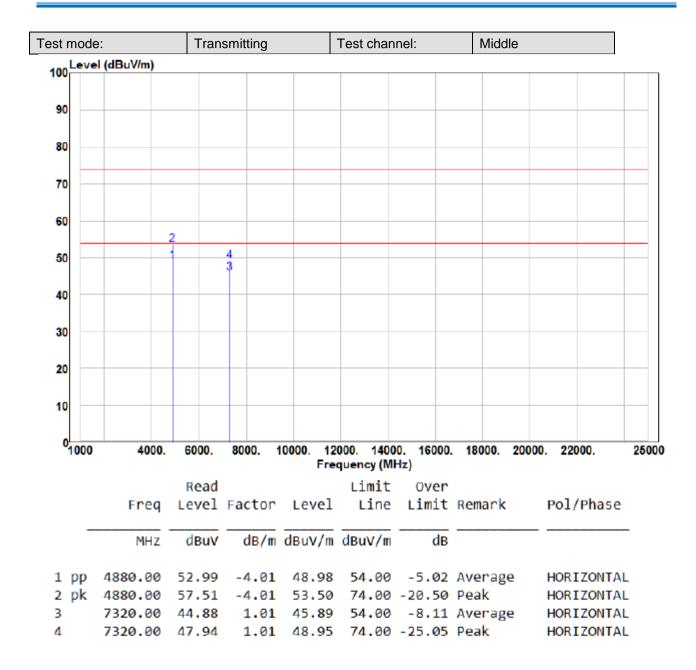




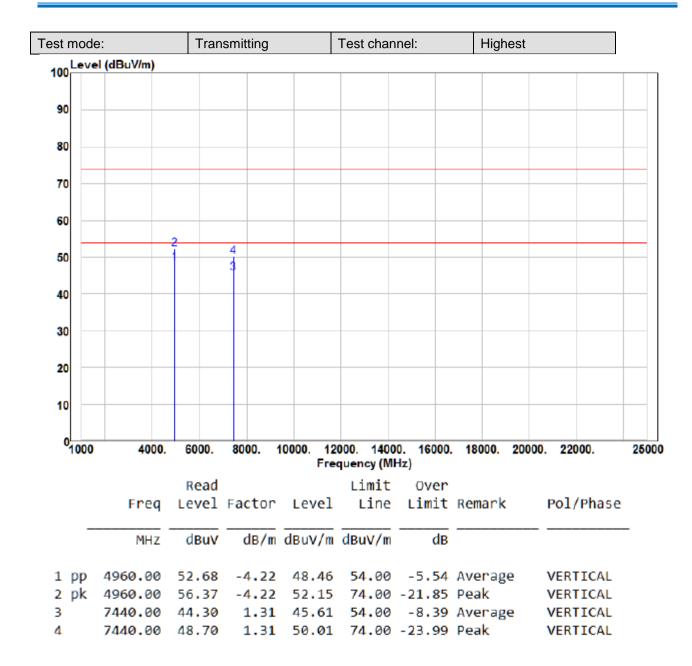






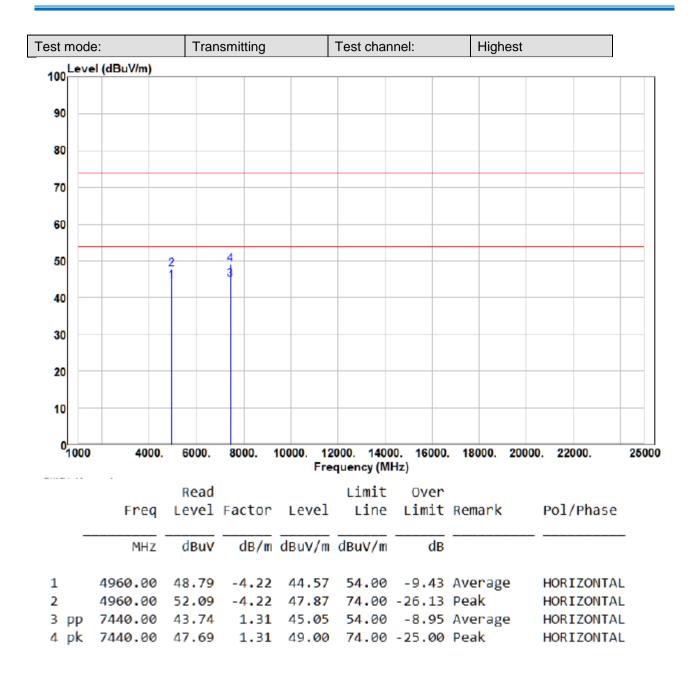








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#### Remark:

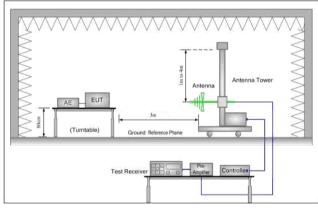
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, The disturbance above 13GHz 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.



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### **6.9** Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205,							
	RSS-Gen Issue 5							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	r)					
Limit:	Frequency	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					
	54.0 Average Value							
	Above 1GHz 74.0 Peak Value							
Test Setup:		_						



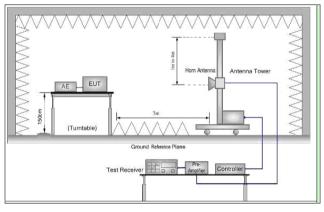


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters Test Procedure: above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: 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. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 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.

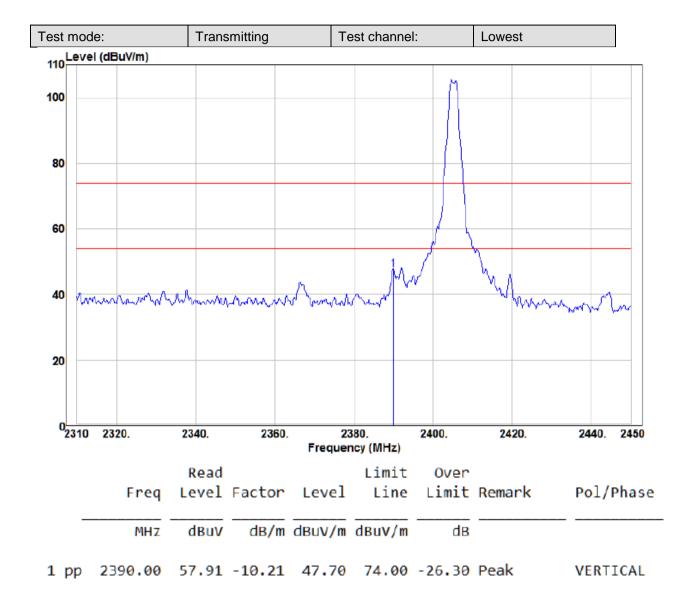
The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



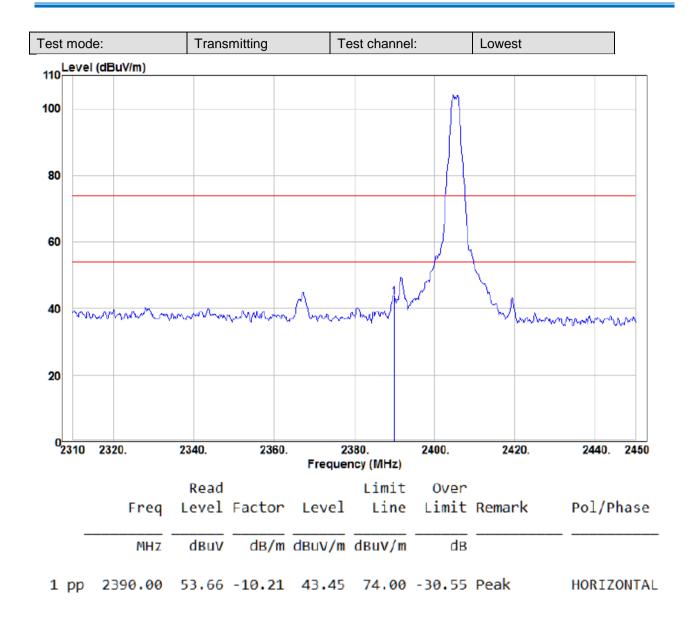
	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function 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 lowest channel , the Highest channel
	h. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting with O-QPSK at lowest, middle and highest channel.
Test Results:	Pass



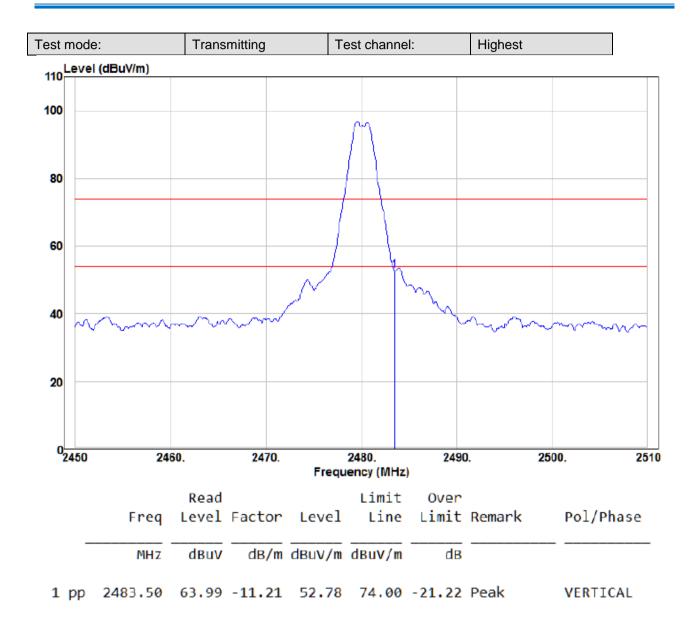
### Test data:







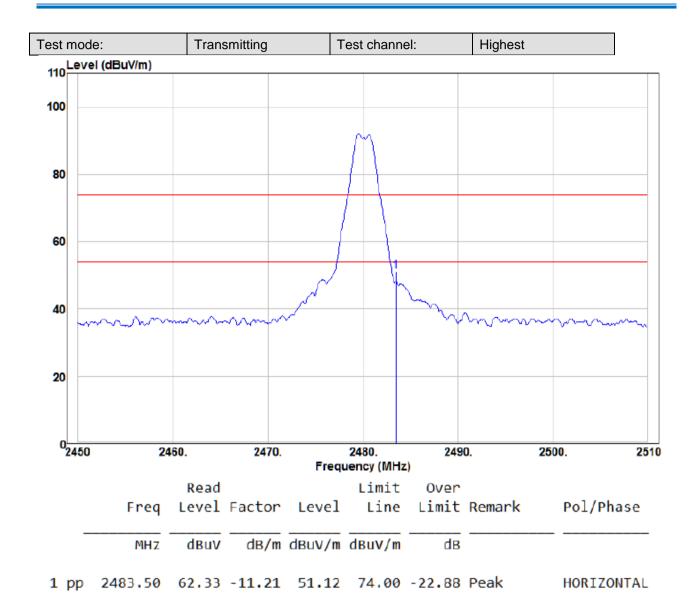






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### Note:

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

#### THE END