FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Automotive Diagnostic Adaptor Box Model: X-431 HD Module **Brand: LAUNCH**

> **Test Report Number:** C140904Z02-RP1

> > Prepared for

Launch Tech Co., Ltd.

Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, 518129, China

Prepared by

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC. No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd.,

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Issued Date: October 9, 2014







Report No.: C140904Z02-RP1

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FCC ID: XUJX431HDM Page 1 / 57



Compliance Certification Services Inc.

Report No.: C140904Z02-RP1

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	October 9, 2014	Initial Issue	ALL	Nancy Fu

FCC ID: XUJX431HDM Page 2 of 57

TABLE OF CONTENTS

2. EUT DESCRIPTION 5 3. TEST METHODOLOGY 6 3.1 DESCRIPTION OF TEST MODES 6 4. FACILITIES AND ACCREDITATIONS 7 4.1 FACILITIES 7 4.2 ACCREDITATIONS 7 4.3 MEASUREMENT UNCERTAINTY 7 5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38 6.9 POWERLINE CONDUCTED EMISSIONS 56	1. TEST RESULT CERTIFICATION	4
3.1 DESCRIPTION OF TEST MODES 6 4. FACILITIES AND ACCREDITATIONS 7 4.1 FACILITIES 7 4.2 ACCREDITATIONS 7 4.3 MEASUREMENT UNCERTAINTY 7 5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	2. EUT DESCRIPTION	5
4. FACILITIES AND ACCREDITATIONS 7 4.1 FACILITIES 7 4.2 ACCREDITATIONS 7 4.3 MEASUREMENT UNCERTAINTY 7 5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	3. TEST METHODOLOGY	6
4.1 FACILITIES	3.1 DESCRIPTION OF TEST MODES	6
4.2 ACCREDITATIONS 7 4.3 MEASUREMENT UNCERTAINTY 7 5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	4. FACILITIES AND ACCREDITATIONS	7
4.3 MEASUREMENT UNCERTAINTY 7 5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	4.1 FACILITIES	7
5. SETUP OF EQUIPMENT UNDER TEST 8 5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	4.2 ACCREDITATIONS	7
5.1 SETUP CONFIGURATION OF EUT 8 5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	4.3 MEASUREMENT UNCERTAINTY	7
5.2 SUPPORT EQUIPMENT 8 6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	5. SETUP OF EQUIPMENT UNDER TEST	8
6. FCC PART 15.247 REQUIREMENTS 9 6.1 20dB BANDWIDTH 9 6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	5.1 SETUP CONFIGURATION OF EUT	8
6.1 20dB BANDWIDTH	5.2 SUPPORT EQUIPMENT	8
6.2 PEAK POWER 13 6.3 PEAK POWER SPECTRAL DENSITY 15 6.4 BAND EDGES MEASUREMENT 16 6.5 FREQUENCY SEPARATION 26 6.6 NUMBER OF HOPPING FREQUENCY 29 6.7 TIME OF OCCUPANCY (DWELL TIME) 31 6.8 SPURIOUS EMISSIONS 38	6. FCC PART 15.247 REQUIREMENTS	9
6.3 PEAK POWER SPECTRAL DENSITY	6.1 20dB BANDWIDTH	9
6.4 BAND EDGES MEASUREMENT		
6.5 FREQUENCY SEPARATION		
6.6 NUMBER OF HOPPING FREQUENCY		
6.7 TIME OF OCCUPANCY (DWELL TIME)31 6.8 SPURIOUS EMISSIONS38		
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Report No.: C140904Z02-RP1

1. TEST RESULT CERTIFICATION

Product	Automotive Diagnostic Adaptor Box
Model	X-431 HD Module
Brand	LAUNCH
Tested	September 4~ October 9, 2014
Applicant	Launch Tech Co., Ltd. Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, 518129, China
Manufacturer	Launch Tech Co., Ltd. Launch Industrial Park, North of Wuhe Rd., Banxuegang, Longgang, Shenzhen, 518129, China

Report No.: C140904Z02-RP1

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 15 Subpart C	No non-compliance noted			

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Sunday Hu

Supervisor of EMC Dept.

molay. Hu

Compliance Certification Service Inc.

Reviewed by:

Ruby Zhang

Supervisor of Report Dept.

Compliance Certification Service Inc.



Compliance Certification Services Inc.

Report No.: C140904Z02-RP1

2. EUT DESCRIPTION

Product	Automotive Diagnostic Adaptor Box
Model Number	X-431 HD Module
Brand	LAUNCH
Model Discrepancy	N/A
Identify Number	C140904Z02-RP1
Power Supply	DC12V supplied by the DC power supply
Received Date	September 4, 2014
Frequency Range	2402 ~ 2480 MHz
Transmit Power	GFSK: 0.15dBm 8DPSK: -0.78dBm
Modulation Technique	FHSS (GFSK for 1Mbps, π /4-DQPSK for 2Mbps, 8DPSK for 3Mbps)
Number of Channels	79 Channels
Antenna Specification	PCB Antenna with 2dBi gain(Max)
Temperature Range	-10°C ~ +50°C
Hardware Version	X-431HD Module _A: V1.00.001 X-431HD Module _B: V1.02.000
Software Version	V 3.00.000

Note: This submittal(s) (test report) is intended for FCC ID: <u>XUJX431HDM</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

FCC ID: XUJX431HDM Page 5 of 57

3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Report No.: C140904Z02-RP1

The following test mode(s) were scanned during the preliminary test below 1G:

Test Item	Test mode	Worse mode
Conducted Emission	Not applicable, since the EUT powered by the DC power supply.	
Radiated	117	
Emission	Mode 1: TX	

Above 1G, Channel Low (2402MHz) · Mid (2441MHz) and High (2480MHz) were chosen for full testing for GFSK and 8DPSK.

FCC ID: XUJX431HDM Page 6 of 57

4. FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.4:2009, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Report No.: C140904Z02-RP1

4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC

Japan VCCI(C-3478, R-3135, T-652, G-624)

Canada INDUSTRY CANADA

Taiwan BSMI Norway Nemko

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccsrf.com

4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB
Conducted Emissions	+/-3.6836dB
Band Width	178kHz
Peak Output Power MU	+/-1.906dB
Band Edge MU	+/-0.182dB
Channel Separation MU	416.178Hz
Duty Cycle MU	0.054ms
Frequency Stability MU	226Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

FCC ID: XUJX431HDM Page 7 of 57

5. SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Report No.: C140904Z02-RP1

5.2 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	DC power supply	QJ3003XE	018389	N/A	N/A	N/A	Unshielded 1.80m
2	Notebook	992F2VG	62P7043	N/A	IBM	N/A	Unshielded 1.80m

Notes:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

FCC ID: XUJX431HDM Page 8 of 57

6. FCC PART 15.247 REQUIREMENTS

6.1 20dB BANDWIDTH

None; for reporting purpose only.

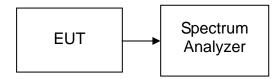
MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Report No.: C140904Z02-RP1

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT, then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=30kHz, VBW=100kHz, Span=3MHz, Sweep = auto
- 4. Mark the peak frequency and 20dB (upper and lower) frequency.
- 5. Repeat until all the test channels are investigated.

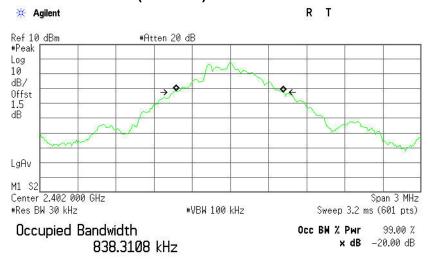
TEST RESULTS

No non-compliance noted

FCC ID: XUJX431HDM Page 9 of 57

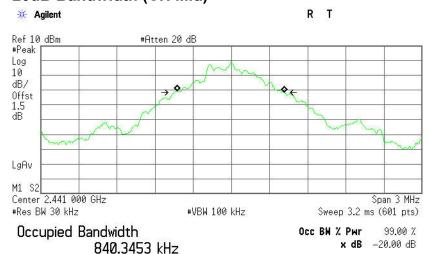
Test plot GFSK

20dB Bandwidth(CH Low)



Transmit Freq Error -5.562 kHz x dB Bandwidth 854.646 kHz

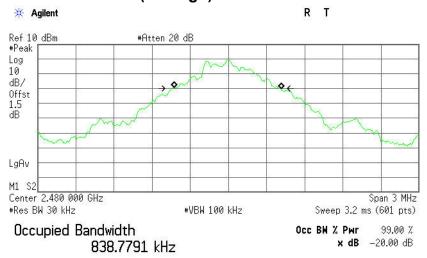
20dB Bandwidth (CH Mid)



Transmit Freq Error -5.400 kHz x dB Bandwidth 856.820 kHz

FCC ID: XUJX431HDM Page 10 of 57

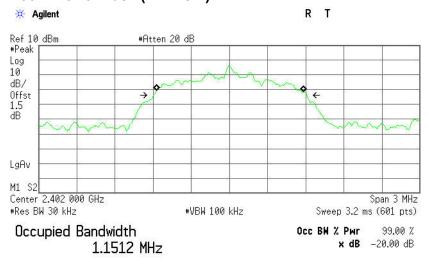
20dB Bandwidth (CH High)



Transmit Freq Error -5.086 kHz x dB Bandwidth 856.297 kHz

8DPSK

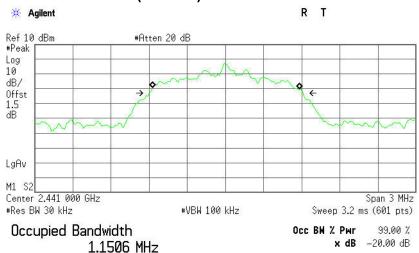
20dB Bandwidth (CH Low)



Transmit Freq Error 4.115 kHz x dB Bandwidth 1.207 MHz

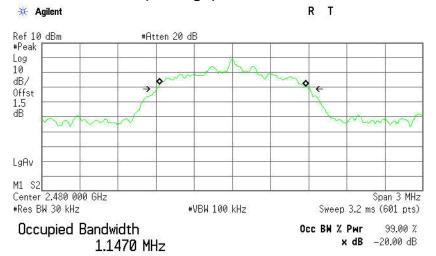
FCC ID: XUJX431HDM Page 11 of 57

20dB Bandwidth (CH Mid)



Transmit Freq Error 4.303 kHz x dB Bandwidth 1.207 MHz

20dB Bandwidth (CH High)



Transmit Freq Error 3.512 kHz x dB Bandwidth 1.205 MHz

FCC ID: XUJX431HDM Page 12 of 57

6.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

Report No.: C140904Z02-RP1

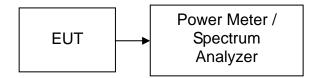
- 1. For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.
- 3. 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.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer Model		Serial Number	Last Calibration	Due Calibration
Power Meter	Anritsu	ML2495A	1204003	03/09/2014	03/08/2015
Power Sensor	Anritsu	MA2411B	1126150	03/09/2014	03/08/2015
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

FCC ID: XUJX431HDM Page 13 of 57

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-5.39	3.50	-1.89	0.00065		PASS
Mid	2441	-4.67	3.50	-1.17	0.00076	1	PASS
High	2480	-3.35	3.50	0.15	0.00104		PASS

Report No.: C140904Z02-RP1

8DPSK

Channel	Frequency (MHz)	Reading Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	-6.65	3.50	-3.15	0.00048		PASS
Mid	2441	-5.86	3.50	-2.36	0.00058	1	PASS
High	2480	-4.28	3.50	-0.78	0.00084		PASS

FCC ID: XUJX431HDM Page 14 of 57

6.3 PEAK POWER SPECTRAL DENSITY

LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Report No.: C140904Z02-RP1

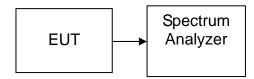
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 4. Record the max. reading.
- 5. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

Not applicable. Since EUT is the Bluetooth device.

FCC ID: XUJX431HDM Page 15 of 57

6.4 BAND EDGES MEASUREMENT

LIMIT

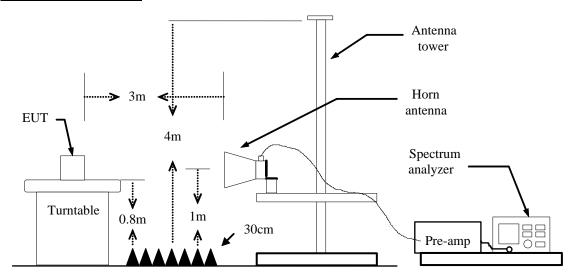
According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

Report No.: C140904Z02-RP1

MEASUREMENT EQUIPMENT USED

	Radiated Emission Test Site 966(2)									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration					
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015					
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015					
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2014	03/18/2015					
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2014	03/18/2015					
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2014	07/09/2015					
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2014	03/01/2015					
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2014	03/01/2015					
Loop Antenna	A、R、A	PLA-1030/B	1029	09/27/2014	09/26/2015					
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R					
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R					
Controller	СТ	N/A	N/A	N.C.R	N.C.R					
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2014	02/28/2015					
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R					
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2						

Test Configuration



FCC ID: XUJX431HDM Page 16 of 57



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

Report No.: C140904Z02-RP1

- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=2.4kHz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

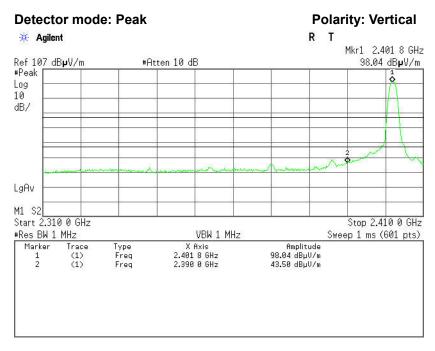
TEST RESULTS

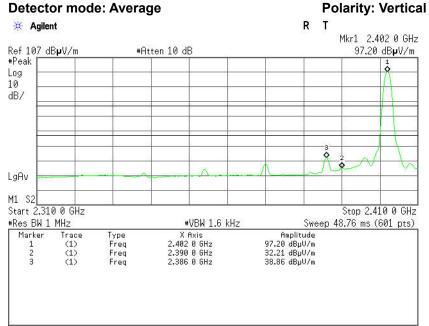
Refer to attach spectrum analyzer data chart.

FCC ID: XUJX431HDM Page 17 of 57

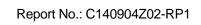
Test Data (GFSK)

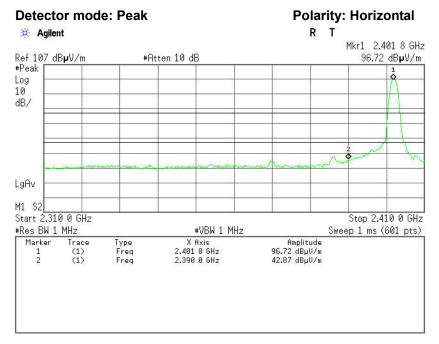
Band Edges (CH-Low)

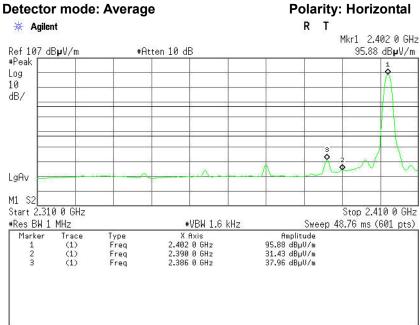




FCC ID: XUJX431HDM Page 18 of 57

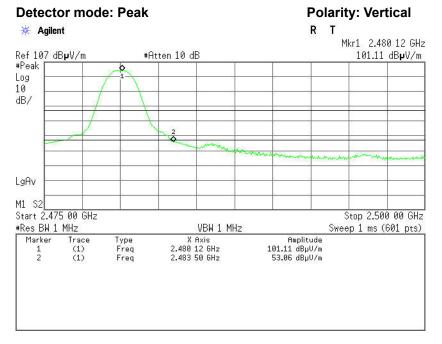




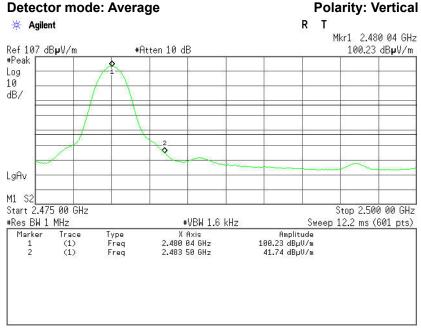


FCC ID: XUJX431HDM Page 19 of 57

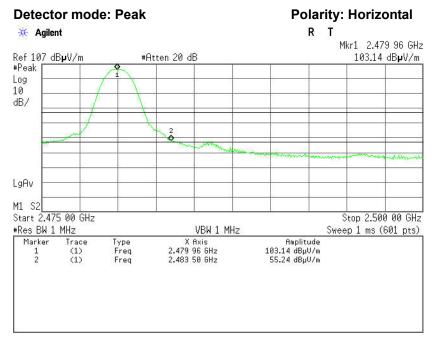
Band Edges (CH-High)

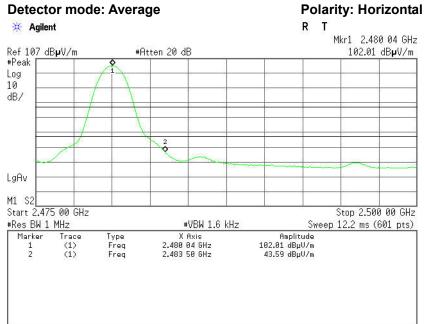


Report No.: C140904Z02-RP1



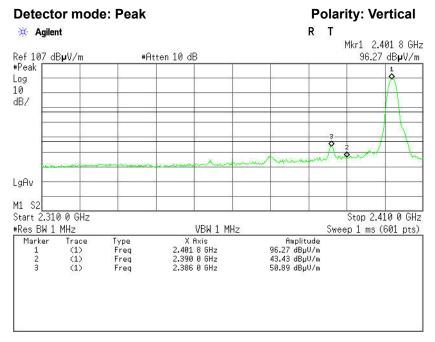
FCC ID: XUJX431HDM Page 20 of 57

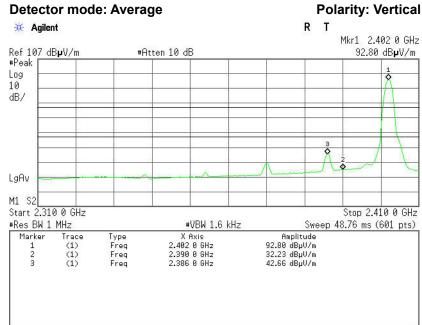




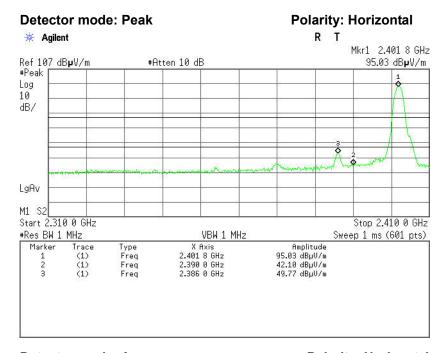
8DPSK

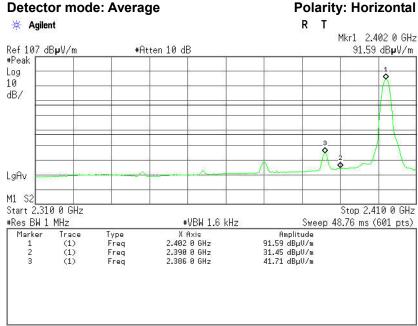
Band Edges (CH-Low)



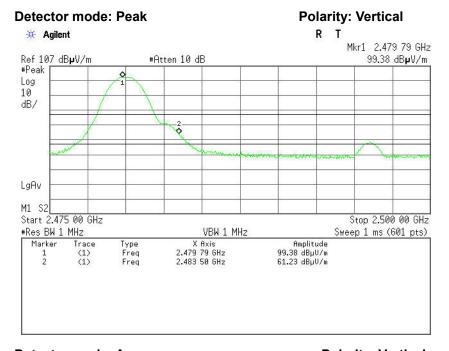


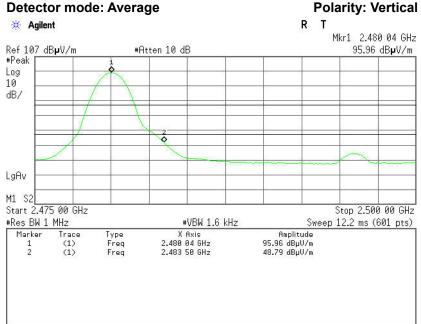
FCC ID: XUJX431HDM Page 22 / 57 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

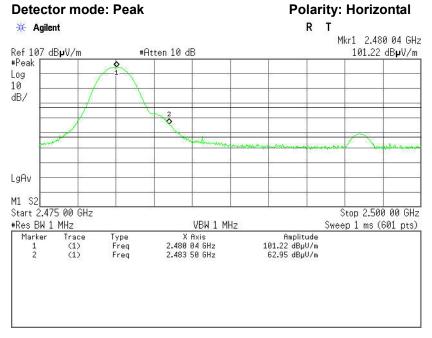


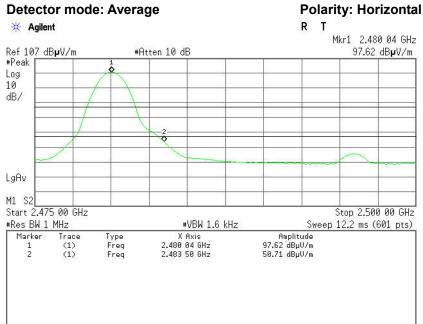


Band Edges (CH-High)









FCC ID: XUJX431HDM Page 25/57
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6.5 FREQUENCY SEPARATION

LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

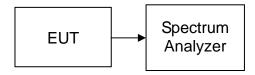
Report No.: C140904Z02-RP1

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Adjust Span to 4 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

Test Data

GFSK

Channel Separation Two-thirds of the 20 dB (MHz) Bandwidth (kHz)		Channel Separation Limit	Result
1.000	571.213	> Two-thirds of the 20 dB Bandwidth	Pass

8DPSK

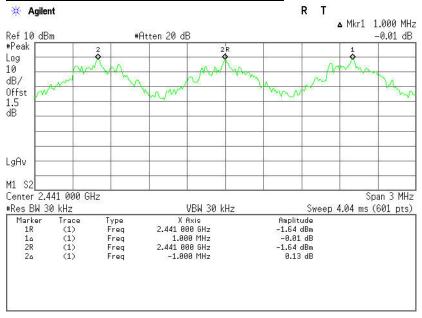
Channel Separation (MHz) Two-thirds of the 20 dB Bandwidth (kHz)		Channel Separation Limit	Result
1.000	804.667	> Two-thirds of the 20 dB Bandwidth	Pass

FCC ID: XUJX431HDM Page 26/57

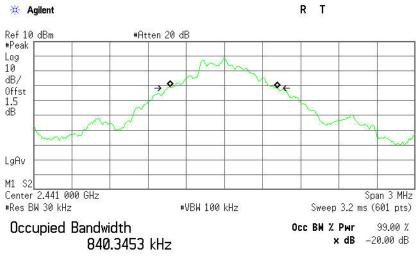
GFSK

Test Plot

Measurement of Channel Separation



20 dB bandwidth(CH Mid)



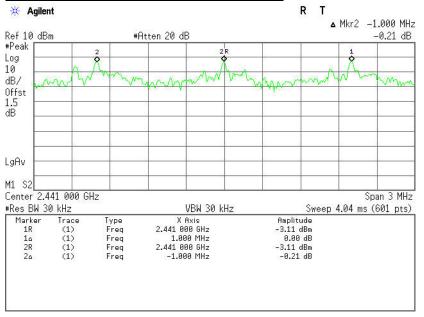
Transmit Freq Error -5.400 kHz x dB Bandwidth 856.820 kHz

FCC ID: XUJX431HDM Page 27/57

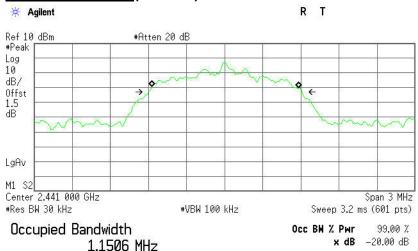
8DPSK

Test Plot

Measurement of Channel Separation



20 dB bandwidth(CH Mid)



Transmit Freq Error 4.303 kHz x dB Bandwidth 1.207 MHz

FCC ID: XUJX431HDM Page 28/57

6.6 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

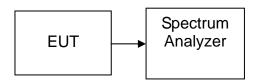
MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Report No.: C140904Z02-RP1

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = 1ms and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = 1ms.
- 4. Set the spectrum analyzer as RBW, VBW=300kHz,
- 5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

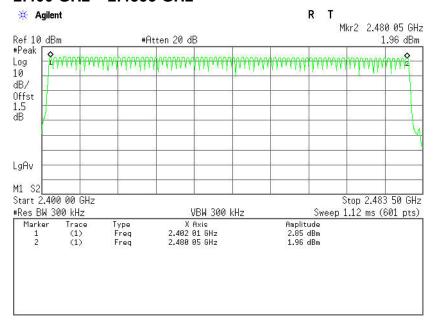
Test Data

Result (No. of CH)	Limit (No. of CH)	Result
79	>15	PASS

FCC ID: XUJX431HDM Page 29 / 57

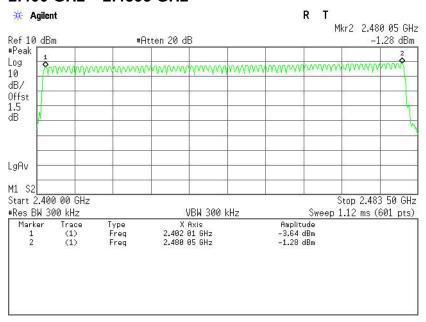
Test Plot (GFSK) Channel Number

2.400 GHz - 2.4835 GHz



Test Plot (8DPSK) Channel Number

2.400 GHz - 2.4835 GHz



FCC ID: XUJX431HDM Page 30 / 57

6.7 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

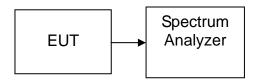
Report No.: C140904Z02-RP1

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5. Repeat above procedures until all frequency measured were complete.

FCC ID: XUJX431HDM Page 31 / 57

TEST RESULTS

No non-compliance noted

Test Data

GFSK

<u>DH 1</u>

CH Mid: 0.588* (1600/2)/79 * 31.6 = 188.160 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	0.588	188.160	31.60	400.00	PASS

DH 3

CH Mid: $1.850^* (1600/4)/79 * 31.6 = 296.000 (ms)$

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	1.850	296.000	31.60	400.00	PASS

<u>DH 5</u>

CH Mid: 3.108* (1600/6)/79* 31.6 = 331.520(ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	3.108	331.520	31.60	400.00	PASS

FCC ID: XUJX431HDM Page 32 / 57

Test Data

8DPSK

<u>DH 1</u>

CH Mid: 0.653* (1600/2)/79* 31.6 = 208.960 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	0.653	208.960	31.60	400.00	PASS

DH 3

CH Mid: $1.910^* (1600/4)/79 * 31.6 = 305.600 (ms)$

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	1.910	305.600	31.60	400.00	PASS

<u>DH 5</u>

CH Mid: 3.175* (1600/6)/79* 31.6 = 338.667 (ms)

СН	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Mid	3.175	338.667	31.60	400.00	PASS

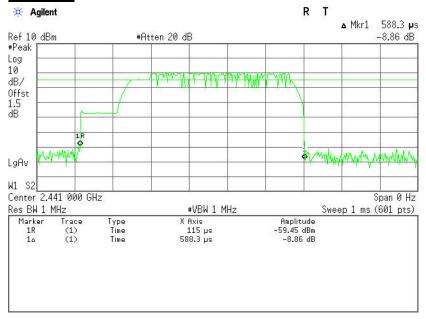
FCC ID: XUJX431HDM Page 33 / 57

Test Plot

GFSK

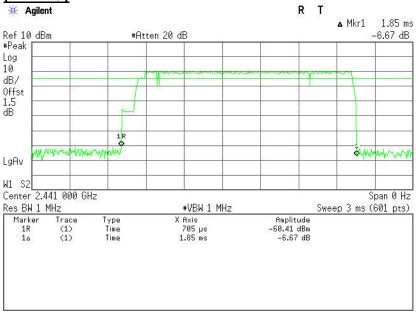
DH 1

(CH Mid)



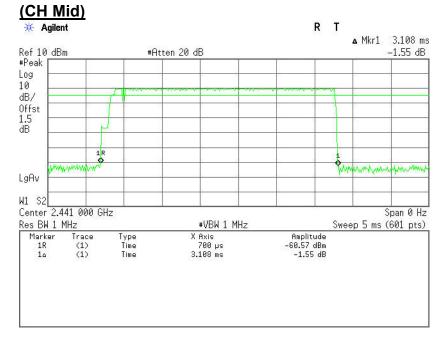
DH 3

(CH Mid)



FCC ID: XUJX431HDM Page 34/57

<u>DH 5</u>

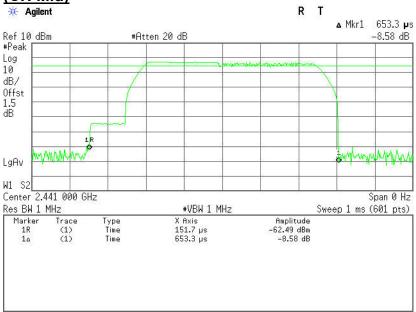


FCC ID: XUJX431HDM Page 35/57
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Test Plot 8DPSK

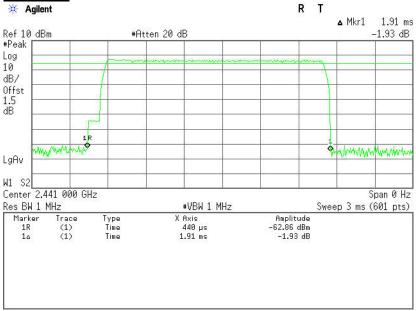
DH 1

(CH Mid)



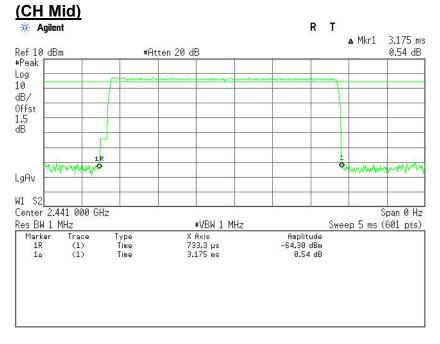
DH 3





FCC ID: XUJX431HDM Page 36/57

<u>DH 5</u>



FCC ID: XUJX431HDM Page 37/57
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6.8 SPURIOUS EMISSIONS

6.8.1. CONDUCTED MEASUREMENT

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

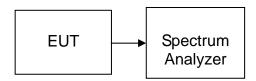
Report No.: C140904Z02-RP1

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

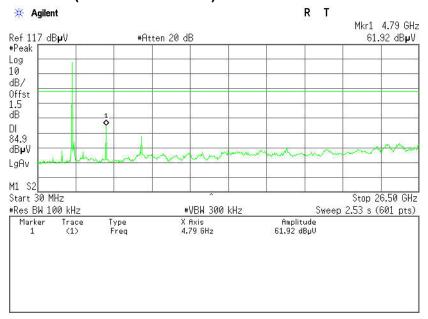
TEST RESULTS

No non-compliance noted

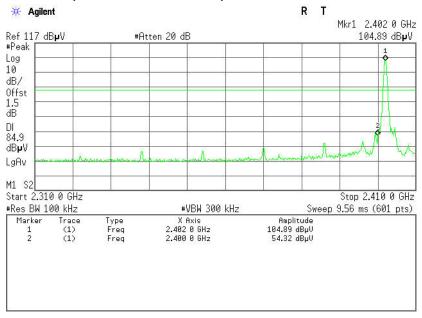
FCC ID: XUJX431HDM Page 38/57

Test Plot (GFSK)

CH Low (30MHz ~26.5GHz)

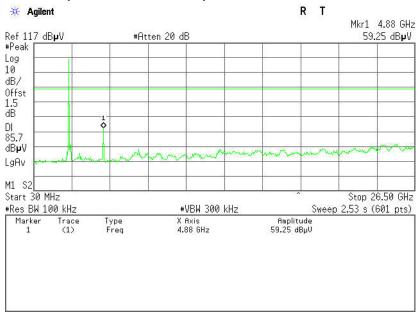


CH Low (2.31GHz ~2.41GHz)



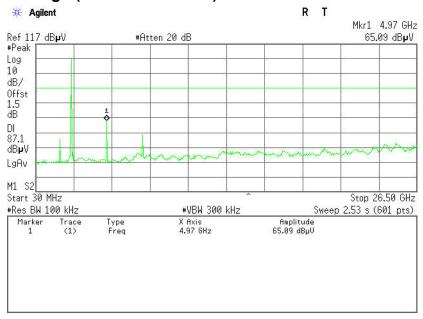
FCC ID: XUJX431HDM Page 39/57

CH Mid (30MHz ~ 26.5GHz)

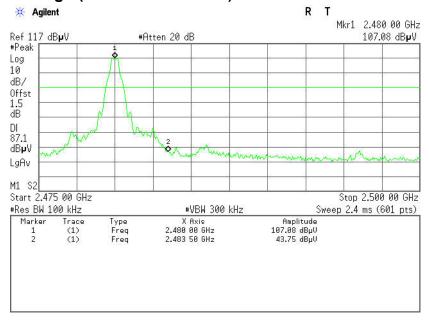


FCC ID: XUJX431HDM Page 40/57

CH High (30MHz ~ 26.5GHz)

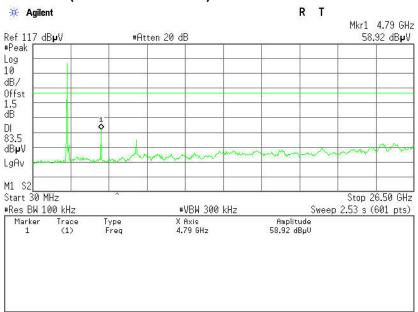


CH High (2.475GHz ~ 2.5GHz)

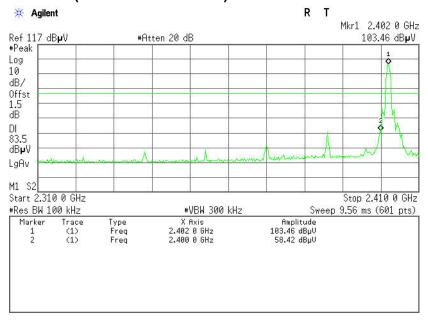


Test Plot (8DPSK)

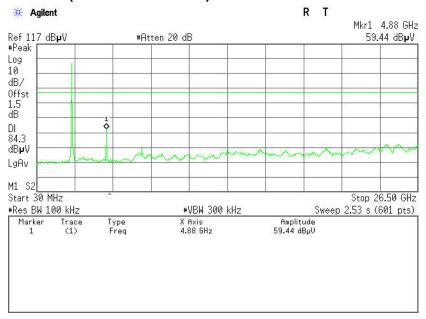
CH Low (30MHz ~26.5GHz)



CH Low (2.31GHz ~2.41GHz)

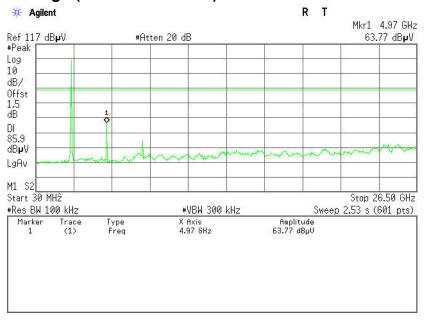


CH Mid (30MHz ~ 26.5GHz)

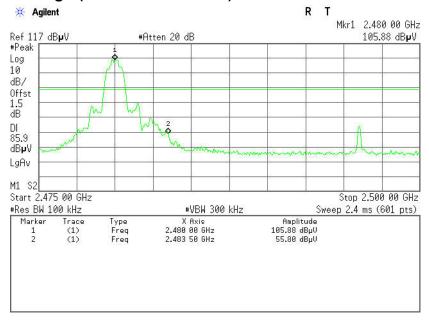


FCC ID: XUJX431HDM Page 43/57

CH High (30MHz ~ 26.5GHz)



CH High (2.475GHz ~ 2.5GHz)



6.8.2. RADIATED EMISSIONS

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Report No.: C140904Z02-RP1

Note: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

FCC ID: XUJX431HDM Page 45/57

MEASUREMENT EQUIPMENT USED

	Radiated Emission Test Site 966(2)							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration			
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015			
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015			
Amplifier	MITEQ	AM-1604-3000	1123808	03/18/2014	03/18/2015			
High Noise Amplifier	Agilent	8449B	3008A01838	03/18/2014	03/18/2015			
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	07/10/2014	07/09/2015			
Bilog Antenna	SCHAFFNER	CBL6143	5082	03/01/2014	03/01/2015			
Horn Antenna	SCHWARZBECK	BBHA9120	D286	03/01/2014	03/01/2015			
Loop Antenna	A、R、A	PLA-1030/B	1029	09/27/2014	09/26/2015			
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R			
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R			
Controller	СТ	N/A	N/A	N.C.R	N.C.R			
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/28/2014	02/28/2015			
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R			
Test S/W	FARAD		LZ-RF / CCS	S-SZ-3A2				

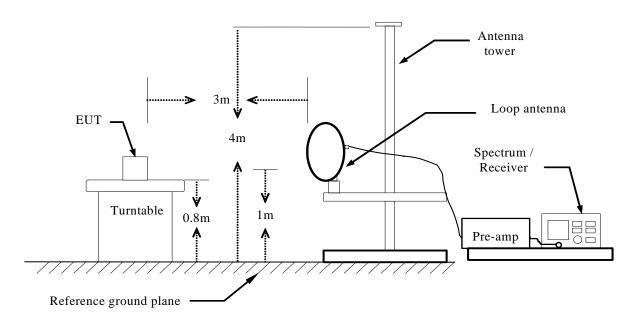
Report No.: C140904Z02-RP1

Remark: Each piece of equipment is scheduled for calibration once a year.

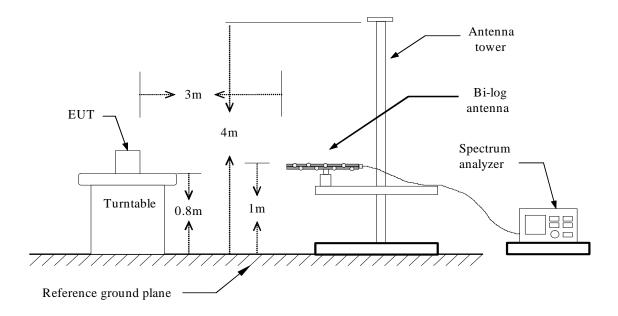
FCC ID: XUJX431HDM Page 46/57

TEST CONFIGURATION

Below 30MHz

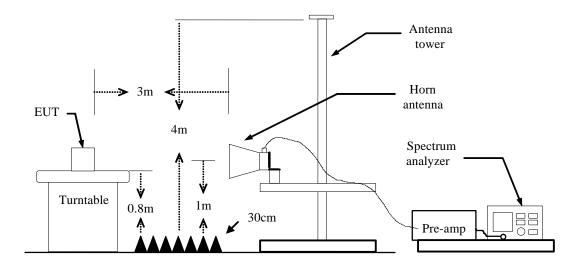


Below 1 GHz



FCC ID: XUJX431HDM Page 47/57

Above 1 GHz



Report No.: C140904Z02-RP1

TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

Below 1 GHz

Operation Mode: TX Test Date: September 17, 2014

Report No.: C140904Z02-RP1

Temperature: 24°C **Tested by:** Mack Li **Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
63.9500	50.29	-24.65	25.64	40.00	-14.36	V	QP
191.6667	46.58	-22.84	23.74	43.50	-19.76	V	QP
288.6666	50.15	-20.46	29.69	46.00	-16.31	V	QP
384.0500	40.96	-16.45	24.51	46.00	-21.49	V	QP
479.4332	38.11	-14.38	23.73	46.00	-22.27	V	QP
576.4333	40.86	-13.08	27.78	46.00	-18.22	V	QP
						•	
191.6666	58.78	-22.84	35.94	43.50	-7.56	Н	QP
288.6666	60.35	-20.46	39.89	46.00	-6.11	Н	QP
319.3833	51.08	-18.95	32.13	46.00	-13.87	Н	QP
384.0500	47.35	-16.45	30.90	46.00	-15.10	Н	QP
479.4332	42.33	-14.38	27.95	46.00	-18.05	Н	QP
576.4333	41.17	-13.08	28.09	46.00	-17.91	Н	QP

^{**}Remark: No emission found between lowest internal used/generated frequency to 30MHz. **Notes:**

- 1. Measuring frequencies from 9kHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30MHz to 1GHz were made with an instrument using Peak/Quasi-peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 120kHz.

5. Frequency (MHz). = Emission frequency in MHz

Reading (dBuV) = Receiver reading

Correction Factor(dB/m) = Antenna factor + Cable loss – Amplifier gain Actual FS (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin(dB) = Measured (dBuV/m) - Limits (dBuV/m)

Antenna Pole(V/H) = Current carrying line of reading

FCC ID: XUJX431HDM Page 49/57



Above 1 GHz GFSK

Operation Mode: TX(CH Low) **Test Date:** September 9, 2014

Report No.: C140904Z02-RP1

Temperature: 24°C Tested by: Mack Li

Humidity: 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1060.000	54.61	-10.21	44.40	74.00	-29.60	V	peak
1600.000	52.86	-10.33	42.53	74.00	-31.47	V	peak
4105.000	42.38	-0.73	41.65	74.00	-32.35	V	peak
4810.000	56.27	1.72	57.99	74.00	-16.01	V	peak
4810.000	49.40	1.72	51.12	54.00	-2.88	V	AVG
6160.000	40.31	4.08	44.39	74.00	-29.61	V	peak
7210.000	43.01	8.11	51.12	74.00	-22.88	V	peak
1600.000	52.15	-10.33	41.82	74.00	-32.18	Н	peak
3880.000	42.76	-1.48	41.28	74.00	-32.72	Н	peak
4810.000	56.31	1.72	58.03	74.00	-15.97	Н	peak
4810.000	49.80	1.72	51.52	54.00	-2.48	Н	AVG
5635.000	41.99	2.78	44.77	74.00	-29.23	Н	peak
6415.000	40.27	5.18	45.45	74.00	-28.55	Н	peak
7210.000	43.37	8.11	51.48	74.00	-22.52	Н	peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading



TX(CH Mid)

Test Date:

Report No.: C140904Z02-RP1

September 9, 2014

Temperature:24°CTested by:Mack LiHumidity:52% RHPolarity:Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1630.000	52.43	-10.07	42.36	74.00	-31.64	V	peak
3445.000	45.37	-2.99	42.38	74.00	-31.62	V	peak
4885.000	51.86	2.03	53.89	74.00	-20.11	V	peak
4885.000	46.22	2.03	48.25	54.00	-5.75	V	AVG
5650.000	40.64	2.80	43.44	74.00	-30.56	V	peak
6550.000	39.64	5.76	45.40	74.00	-28.60	V	peak
7315.000	41.35	8.31	49.66	74.00	-24.34	V	peak
1630.000	52.67	-10.07	42.60	74.00	-31.40	Н	peak
3865.000	42.66	-1.54	41.12	74.00	-32.88	Н	peak
4885.000	52.19	2.03	54.22	74.00	-19.78	Н	peak
4885.000	46.91	2.03	48.94	54.00	-5.06	Н	AVG
5275.000	41.65	2.53	44.18	74.00	-29.82	Н	peak
6415.000	40.32	5.18	45.50	74.00	-28.50	Н	peak
7330.000	41.60	8.34	49.94	74.00	-24.06	Н	peak

Notes:

Operation Mode:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Remark = Mark Peak Reading or Average Reading

FCC ID: XUJX431HDM Page 51/57



Operation Mode: TX(CH High) **Test Date:** September 9, 2014

24°C Mack Li Temperature: Tested by:

52% RH **Humidity:** Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1660.000	53.99	-9.81	44.18	74.00	-29.82	V	peak
3235.000	43.64	-3.37	40.27	74.00	-33.73	V	peak
3985.000	42.46	-1.10	41.36	74.00	-32.64	V	peak
4960.000	50.97	2.34	53.31	74.00	-20.69	V	peak
4960.000	47.09	2.34	49.43	54.00	-4.57	V	AVG
6355.000	40.20	4.92	45.12	74.00	-28.88	V	peak
7435.000	44.37	8.55	52.92	74.00	-21.08	V	peak
7435.000	40.01	8.55	48.56	54.00	-5.44	V	AVG
1660.000	52.58	-9.81	42.77	74.00	-31.23	Н	peak
3145.000	44.20	-3.54	40.66	74.00	-33.34	Н	peak
3745.000	43.25	-1.98	41.27	74.00	-32.73	Н	peak
4960.000	50.77	2.34	53.11	74.00	-20.89	Н	peak
4960.000	47.01	2.34	49.35	54.00	-4.65	Н	AVG
6325.000	40.57	4.79	45.36	74.00	-28.64	Н	peak
7435.000	41.96	8.55	50.51	74.00	-23.49	Н	peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

5. Frequency (MHz) = Emission frequency in MHz Reading ($dB\mu V/m$) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result ($dB\mu V/m$)- Limit ($dB\mu V/m$)

Pk = Peak Reading AV. = Average Reading

8DPSK

Operation Mode: TX(CH Low) **Test Date:** September 9, 2014

Temperature: 24°C **Tested by:** Mack Li **Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1600.000	53.23	-10.33	42.90	74.00	-31.10	V	peak
2830.000	45.02	-4.62	40.40	74.00	-33.60	V	peak
3865.000	42.86	-1.54	41.32	74.00	-32.68	V	peak
4810.000	51.17	1.72	52.89	74.00	-21.11	V	peak
4810.000	40.00	1.72	41.72	54.00	-12.28	V	AVG
5980.000	40.84	3.36	44.20	74.00	-29.80	V	peak
7210.000	39.86	8.11	47.97	74.00	-26.03	V	peak
1600.000	51.53	-10.33	41.20	74.00	-32.80	Н	peak
3115.000	43.40	-3.59	39.81	74.00	-34.19	Н	peak
3865.000	43.57	-1.54	42.03	74.00	-31.97	Н	peak
4810.000	49.78	1.72	51.50	74.00	-22.50	Н	peak
4810.000	38.93	1.72	40.65	54.00	-13.35	Н	AVG
5605.000	40.92	2.73	43.65	74.00	-30.35	Н	peak
6910.000	40.19	7.31	47.50	74.00	-26.50	Н	peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Operation Mode: TX(CH Mid) **Test Date:** September 9, 2014

Temperature: 24°C **Tested by:** Mack Li **Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1630.000	51.77	-10.07	41.70	74.00	-32.30	V	peak
4165.000	43.02	-0.55	42.47	74.00	-31.53	V	peak
4885.000	45.60	2.03	47.63	74.00	-26.37	V	peak
6025.000	40.27	3.50	43.77	74.00	-30.23	V	peak
6940.000	41.82	7.44	49.26	74.00	-24.74	V	peak
7750.000	40.47	9.16	49.63	74.00	-24.37	V	peak
1630.000	52.72	-10.07	42.65	74.00	-31.35	Н	peak
4210.000	42.60	-0.42	42.18	74.00	-31.82	Н	peak
4885.000	45.39	2.03	47.42	74.00	-26.58	Н	peak
6070.000	40.93	3.69	44.62	74.00	-29.38	Н	peak
6970.000	40.93	7.57	48.50	74.00	-25.50	Н	peak
7675.000	40.31	9.02	49.33	74.00	-24.67	Н	peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading (dBµV/m) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

Operation Mode: TX(CH High) Test Date: September 9, 2014

Report No.: C140904Z02-RP1

Temperature: 24 °C **Tested by:** Mack Li **Humidity:** 52% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1660.000	53.82	-9.81	44.01	74.00	-29.99	V	peak
3265.000	44.16	-3.32	40.84	74.00	-33.16	V	peak
4330.000	42.46	-0.07	42.39	74.00	-31.61	V	peak
4960.000	46.52	2.34	48.86	74.00	-25.14	V	peak
5815.000	41.23	3.08	44.31	74.00	-29.69	V	peak
6910.000	40.38	7.31	47.69	74.00	-26.31	V	peak
1660.000	52.70	-9.81	42.89	74.00	-31.11	Н	peak
3880.000	42.81	-1.48	41.33	74.00	-32.67	Н	peak
4960.000	48.30	2.34	50.64	74.00	-23.36	Н	peak
5410.000	41.88	2.54	44.42	74.00	-29.58	Н	peak
6565.000	39.72	5.83	45.55	74.00	-28.45	Н	peak
7780.000	40.87	9.22	50.09	74.00	-23.91	Н	peak

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.
- 5. Frequency (MHz) = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

 $Limit (dB\mu V/m) = Limit stated in standard$

Margin (dB) = Result (dB μ V/m)- Limit (dB μ V/m)

Pk = Peak Reading
AV. = Average Reading

6.9 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Report No.: C140904Z02-RP1

Frequency Range (MHz)	Limits (dBμV)				
Frequency Kange (MIDZ)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

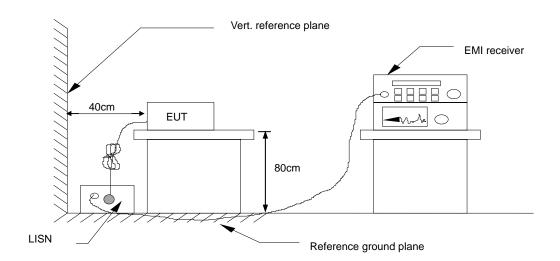
MEASUREMENT EQUIPMENT USED

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	03/09/2014	03/08/2015
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	04/20/2014	04/19/2015
LISN	EMCO	3825/2	8901-1459	03/09/2014	03/08/2015
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	03/04/2014	03/03/2015
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE			

Remark: Each piece of equipment is scheduled for calibration once a year.

FCC ID: XUJX431HDM Page 56 / 57

TEST CONFIGURATION



Report No.: C140904Z02-RP1

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

Not applicable, Since the EUT is powered by the DC power supply.

FCC ID: XUJX431HDM Page 57 / 57