

FCC Certification Test Report

**For the
Nixon, Inc.
The Ultratide
Model: A476**

FCC ID: 2ADQ8-A476

**REPORT# 14WB1113033F-2 Rev 0
Jan.02, 2015**

Prepared for:

**Nixon, Inc.
701 South Coast Highway, Encinitas, CA 92024, USA**

Prepared by:

WASHINGTON TECHNOLOGY INTERNATIONAL LIMITED

This report applies only to the sample evaluated prior to the preparation date stated above.

This report must be copied in its entirety, including all technical documents.

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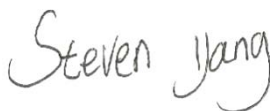
**WLL REPORT# 14WB1113033F-2 Rev 0
Jan.02, 2015**

Prepared by:



Henry guo

Reviewed by:



Steven yang

Abstract

This report has been prepared on behalf of Nixon, Inc. to support the attached Application for Equipment Authorization. The test report and application are submitted for a Spread Spectrum Transceiver under Part 15.247 of the FCC Rules and Regulations. This Federal Communication Commission (FCC) Certification Test Report documents the test configuration and test results for Nixon, Inc. The Ultratide.

And Testing was performed by Audix Technology (Shenzhen) Co., Ltd. has been accepted by the FCC, the FCC Registration Number is 90454.

The Ultratide is a Bluetooth V4.0 compliant device and complies with the limits for a Direct Sequence Spread Spectrum Transmitter device under Part 15.247 of the FCC Rules and Regulations.

Revision History	Reason	Date
Rev 0	Initial Release	Jan.02, 2015

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1 Introduction

1.1 Compliance Statement

After the modifications listed in Section 2.7 were installed:

The Nixon, Inc. The Ultratide complies with the limits for a Spread Spectrum Transceiver device under Part 15.247 of the FCC Rules and Regulations.

1.2 Test Scope Summary

Tests for radiated and conducted emissions were performed. All measurements were performed according to the 2009 version of ANSI C63.10

Test Specification	Specific Description	Result	Modifications (Y/N)	Test Location
CFR47 Part 15.207	Conducted Emissions – AC Power Ports	Not Applicable	Not Applicable	Not Applicable
CFR47 Part 15.209	Radiated Emissions	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247	RF Power Output	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247(b)	Spurious Emissions at Antenna Terminals	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247(c)	Radiated Spurious Emissions	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247	RF Power Spectral Density	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247	Occupied Bandwidth	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247	Band Edge Measurement (Conducted)	Complied	No	Audix Technology (Shenzhen) Co., Ltd.
CFR47 Part 15.247	Band Edge Measurement (Radiated)	Complied	No	Audix Technology (Shenzhen) Co., Ltd.

NOTE: The EUT is also considered as a kind of other class B digital device it has been verified to comply with the requirements of FCC Part 15B Class B (Verification) the test report has been issued by WTIL.

1.3 Contract Information

Customer: Nixon, Inc.
701 South Coast Highway, Encinitas, CA 92024, USA

1.4 Test and Support Personnel

Mario Wu Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou, Shenzhen,
Guangdong, China
Test Engineer

1.5 Abbreviations

A	A mpere
ac	a lternating c urrent
AM	A mplitude M odulation
Amps	A mp e res
b/s	b its p er s econd
BW	B and W idth
CE	C onducted E mission
cm	c ent m eter
CW	C ontinuous W ave
dB	d eci B el
dc	d irect c urrent
EMI	E lectro m agnetic I nterference
EUT	E quipment U nder T est
FM	F requency M odulation
G	g iga - prefix for 10^9 multiplier
Hz	H ertz
IF	I ntermediate F requency
k	k ilo - prefix for 10^3 multiplier
LISN	L ine I mpedance S tabilization N etwork
M	M ega - prefix for 10^6 multiplier
m	m eter
μ	m icro - prefix for 10^{-6} multiplier
NB	N arrow b and
QP	Q uasi- P eak
RE	R adiated E missions
RF	R adio F requency
rms	r oot- m ean- s quare
SN	S erial N umber
S/A	S pectrum A nalyzer
V	V olt

2 Equipment Under Test

2.1 EUT Identification

The results obtained relate only to the item(s) tested.

Table 1: Overview of The Ultratide, Equipment Under Test

ITEM	DESCRIPTION
FCC ID Number	2ADQ8-A476
EUT Name:	The Ultratide
Test Model:	A476
FCC Rule Parts:	§15.247
Frequency Range:	2402MHz – 2480MHz
Maximum Output Power:	-0.282dBm
Modulation Technology :	GFSK
Necessary Bandwidth:	N/A
Keying:	Automatic
Type of Information:	Bluetooth V4.0: GFSK
Number of Channels:	40
Antenna Type	PIFA
Antenna Gain	-4.5dBi
Frequency Tolerance:	N/A
Emission Type(s):	N/A
Interface Cables:	None
Power Source & Voltage:	3 VDC from button battery

2.2 EUT Description

Product Name: The Ultratide

Model No. : A476

EUT Rated Voltage: DC 3V button battery

Equipment Configuration

The EUT were set up as outlined in Figure 1. The EUT was comprised of the following equipment. (All Modules, PCBs, etc. listed were considered as part of the EUT, as tested.)

2.3 Test Configuration

The Nixon, Inc. The Ultratide, Equipment Under Test (EUT), was operated from 3VDC button battery.

The EUT firmware/software was set up to control power, bit rate, and channel selection.

Conducted test setup :

Not Applicable

Radiated test setup:

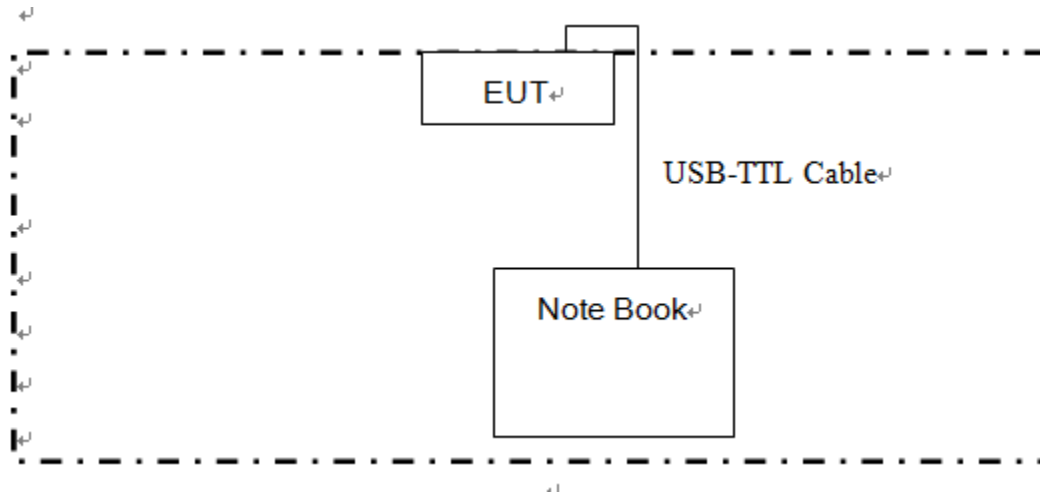


Figure 1: Test Configuration

2.4 Equipment Configuration

The EUT was set up as outlined in Figure 1. The EUT was comprised of the following equipment. (All Modules, PCBs, etc. listed were considered as part of the EUT, as tested.)

Table 2: Equipment Configuration

Name / Description	Model Number	Part Number	Serial Number	Revision
The Ultratide	A476	/	/	/

2.5 Interface Cables

Table 3: Interface Cables

Slot #	Port Identification	Connector Type	Cable Length	Shielded (Y/N)	Termination Point
1	USB-TTL Cable	Unshielded, Detachable	<1m	N	AE

2.6 Support Equipment

The following support equipment was used during testing:

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Note Book	--	DELL	PP09S	--	<input type="checkbox"/> FCC ID <input type="checkbox"/> BSMI ID

2.7 EUT Modifications

N/A

2.8 Testing Algorithm

The Ultratide was operated continuously by normal operating conditions. During the testing, the EUT connected with Notebook by a USB-TTL Board and controlled by Notebook software to continuously transmit Bluetooth signal at frequency band 2402MHz, 2440MHz and 2480MHz.

2.9 Test Location

And Testing was performed by Audix Technology (Shenzhen) Co., Ltd. has been accepted by the FCC, the FCC Registration Number is 90454.

2.10 Measurements

2.10.1 Measurement Method

All measurements were performed according to the 2009 version of ANSI C63.10 for testing compliance of a wide variety of unlicensed wireless devices

2.10.2 Measurement Uncertainty

All results reported herein relate only to the equipment tested. The basis for uncertainty calculation uses ANSI/NCSL Z540-2-1997 with a type B evaluation of the standard uncertainty. Elements contributing to the standard uncertainty are combined using the method described in Equation 1 to arrive at the total standard uncertainty. The standard uncertainty is multiplied by the coverage factor to determine the expanded uncertainty which is generally accepted for use in commercial, industrial, and regulatory applications and when health and safety are concerned (see Equation 2). A coverage factor was selected to yield a 95% confidence in the uncertainty estimation.

Equation 1: Standard Uncertainty

$$u_c = \pm \sqrt{\frac{a^2}{div_a^2} + \frac{b^2}{div_b^2} + \frac{c^2}{div_c^2} + \dots}$$

where u_c = standard uncertainty
 a, b, c, \dots = individual uncertainty elements
 $\text{div}_{a, b, c}$ = the individual uncertainty element
divisor based on the probability
distribution
divisor = 1.732 for rectangular distribution
divisor = 2 for normal distribution
divisor = 1.414 for trapezoid distribution

Equation 2: Expanded Uncertainty

$$U = k u_c$$

where U = expanded uncertainty
 k = coverage factor
 $k \leq 2$ for 95% coverage (ANSI/NCSL Z540-2
Annex G)
 u_c = standard uncertainty

The measurement uncertainty complies with the maximum allowed uncertainty from CISPR 16-4-2. Measurement uncertainty is not used to adjust the measurements to determine compliance. The expanded uncertainty values for the various scopes in the WLL accreditation are provided in Table 4 below.

Table 4: Expanded Uncertainty List

Scope	Expanded Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB (1~6GHz, Distance: 3m)
	4.99 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Power density test	2.00 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3 Test Equipment

Table 5 shows a list of the test equipment used for measurements along with the calibration information.

Table 5: Test Equipment List

Frequency rang: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A02495	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

4 Test Results

4.1 RF Power Output:

To measure the output power the unit was set to transmit on a low, high and middle channel. The output from the transmitter was connected to an attenuator and then to the input of a detector diode. The output of the detector diode was displayed on an oscilloscope. The trace deflection was recorded and the transmitter was replaced with a signal generator at the same frequency. The output of the signal generator was increased until the trace deflection was the same as it was with the transmitter. The signal from the generator was then connected to a power meter and the level was taken.

4.1.1 Limit (FCC Part 15.247b(3))

For frequency hopping systems operating in the 2400-2483.5 MHz band, employing at least 75 non-overlapping hopping channels, For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

4.1.2 Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

4.1.3 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 RF Power Output requirements.

Table 6 provides the test results for RF Power Output.

4.1.4 Areas of Concern

None.

Table 6: RF Power Output

EUT: The Ultratide			
Model: A476			
Test date:2014-12-30		Pressure: 101.3 ± 1.0 kpa	Humidity: $51.4 \pm 3.0\%$
Tested by: Donjon_Huang		Test site: RF site	Temperature: $23.1 \pm 0.6^{\circ}\text{C}$
Cable loss: 11 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	Peak output Power (dBm)	Limit (dBm)
GFSK	2402	-0.282	30
	2440	-0.490	30
	2480	-0.666	30
Conclusion: PASS			

Note1: According exploratory test, EUT will have maximum output power as above bolded data rate, so those data rate were used for all test.

4.2 RF Power Spectral Density

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer. The analyzer offset was adjusted to compensate for the attenuator and other losses in the system.

4.2.1 Limit

For digitally modulated systems, the 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.

4.2.2 Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz,VBW=10KHz,Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the span to 1.5 times of the DTS Bandwidth Detector= Peak; Sweep time= Auto Couple; Trace Mode= Max hold.
4. Allow trace to fully stabilize use the peak marker function to determine the maximum amplitude level within the RBW.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude.

4.2.3 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 RF Power Spectral Density requirements.

Table 7 provides the test results for RF Power Spectral Density.

4.2.4 Areas of Concern

None.

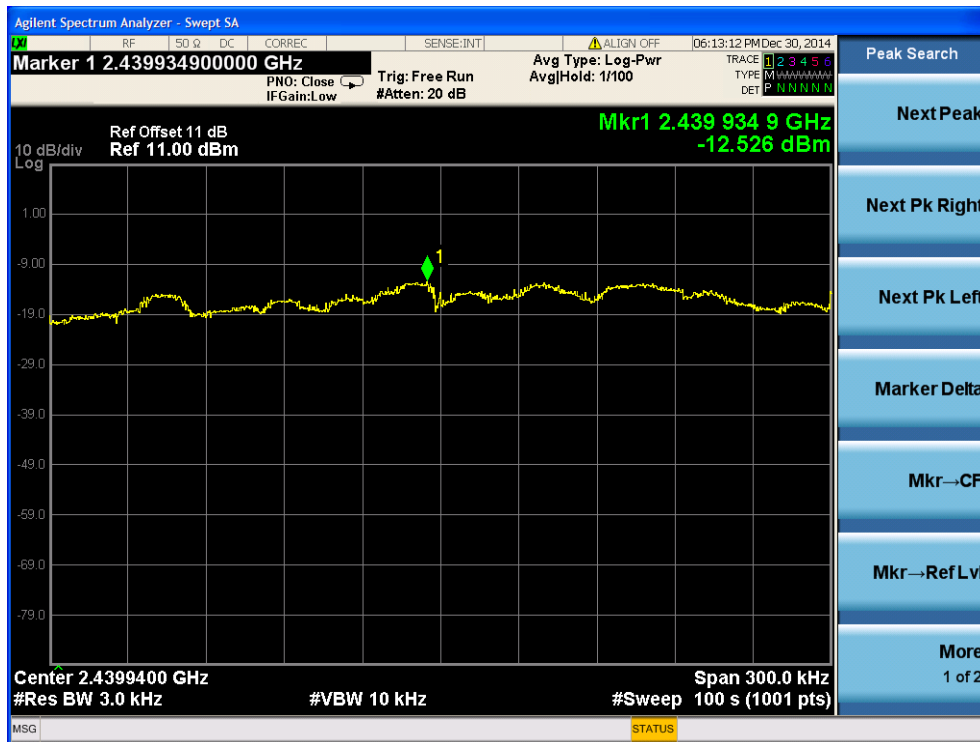
Table 7: RF Power Spectral Density

EUT: The Ultratide			
Model: A476			
Test date: 2014-12-30	Pressure: 101.5 ± 1.0kpa		Humidity: 52.3 ± 3.0%
Tested by: Donjon_Huang	Test site: RF site		Temperature: 23.1 ± 0.6°C
Cable loss: 11 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Power density (dBm/3KHz)	Limit (dBm/3KHz)
GFSK	2402	-12.024	8
	2440	-12.526	8
	2480	-12.213	8
Conclusion: PASS			

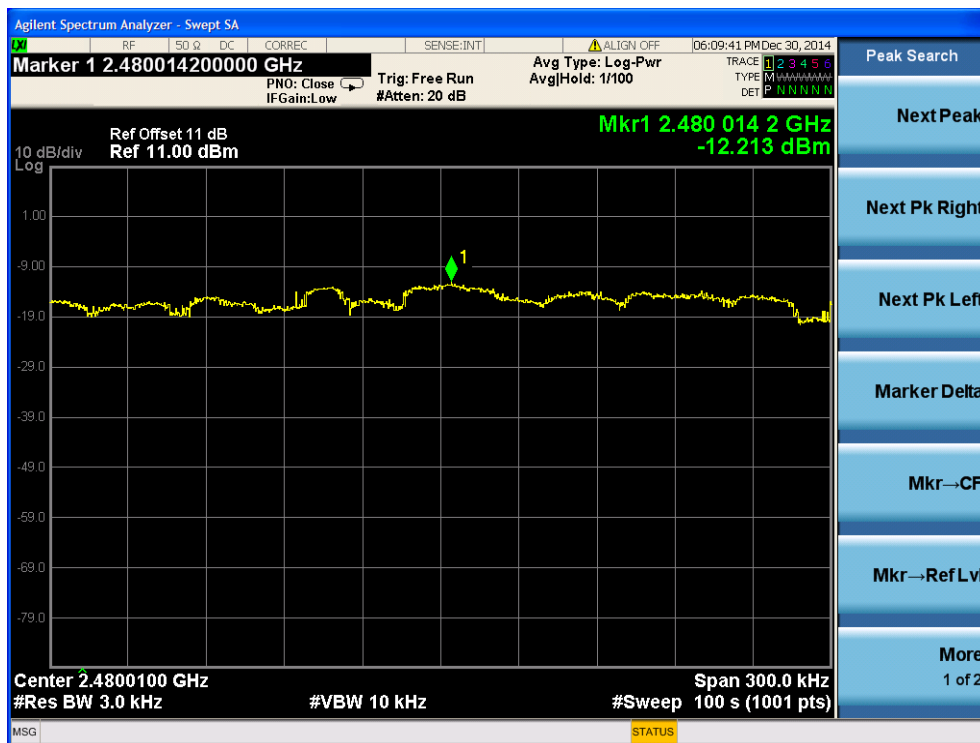
Test Mode: CH0: 2402MH



Test Mode: CH19: 2440MHz



Test Mode: CH39: 2480MHz



4.3 Occupied Bandwidth

Occupied bandwidth was performed by coupling the output of the EUT to the input of a spectrum analyzer.

4.3.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

4.3.2 Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.3 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 Occupied bandwidth requirements.

Table 8 provides the test results for Occupied bandwidth.

4.3.4 Areas of Concern

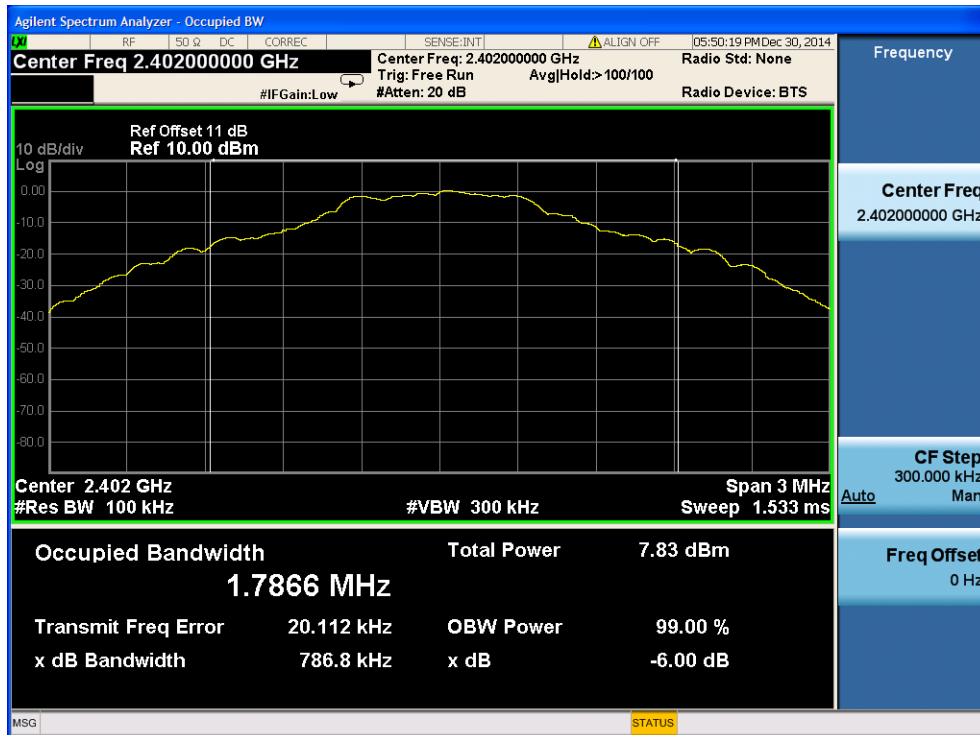
None.

Table 8: Occupied Bandwidth Results

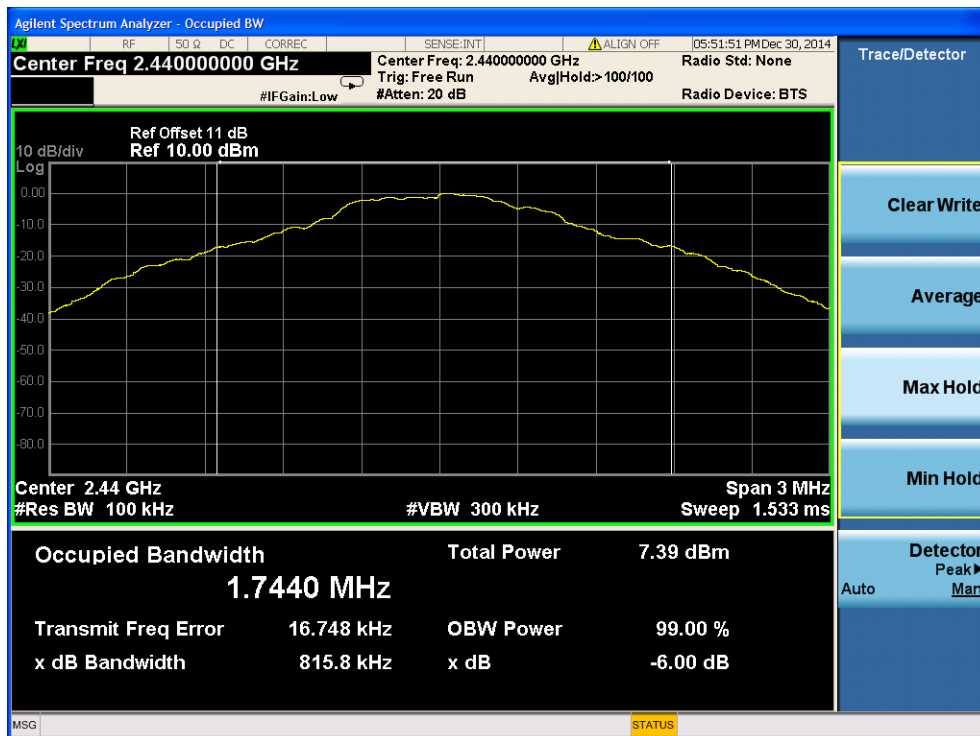
EUT: The Ultratide		
Model: A476		
Test date:2014-12-30	Pressure: $101.5 \pm 1.0\text{kPa}$	Humidity: $52.3 \pm 3.0\%$
Tested by: Donjon_Huang	Test site: RF site	Temperature: $22.6 \pm 0.6^{\circ}\text{C}$

Cable loss: 11 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	6 dB bandwidth (kHz)	Limit (kHz)
GFSK	2402	786.8	>500
	2440	815.8	>500
	2480	787.2	>500
Conclusion: PASS			

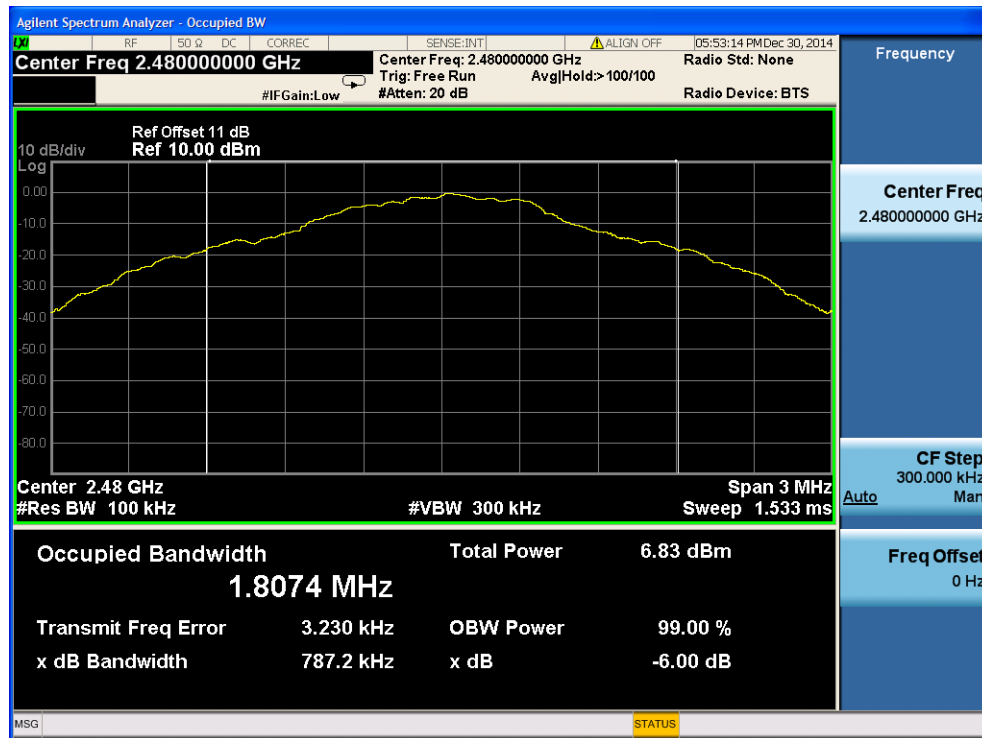
Test Mode: CH0: 2402MHz



Test Mode: CH19: 2440MHz



Test Mode: CH39: 2480MHz



4.4 Spurious Emissions at Antenna Terminals (FCC Part §15.247(b))

4.4.1 Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is 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.

4.4.2 Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

4.4.3 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 Spurious Emissions at Antenna Terminals requirements.

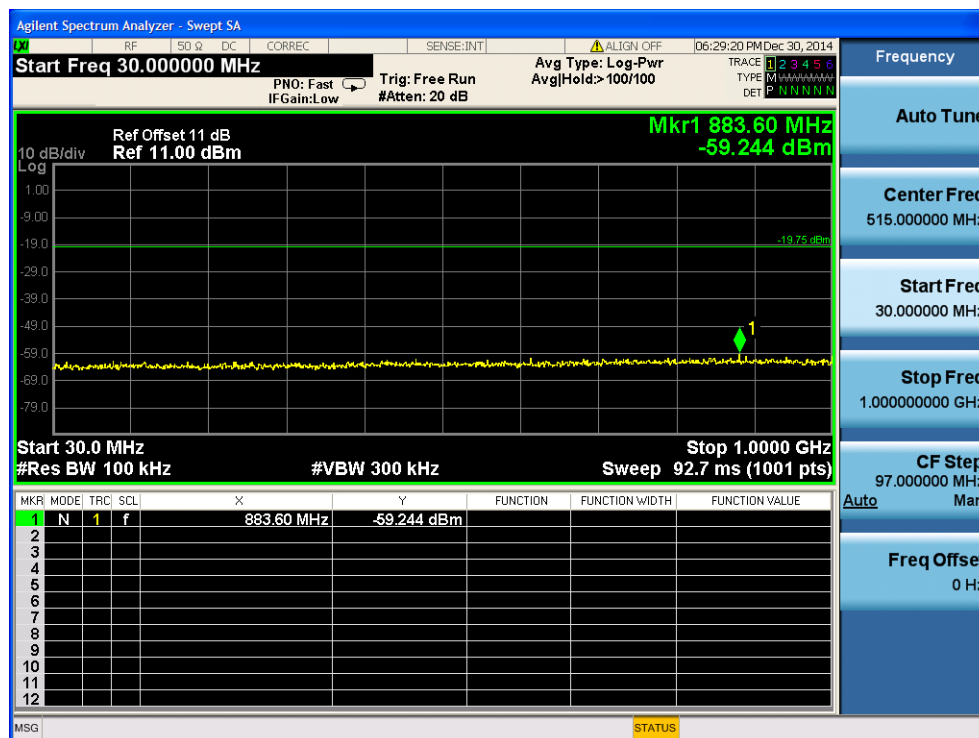
Table 9 provides the test results for Spurious Emissions at Antenna Terminals.

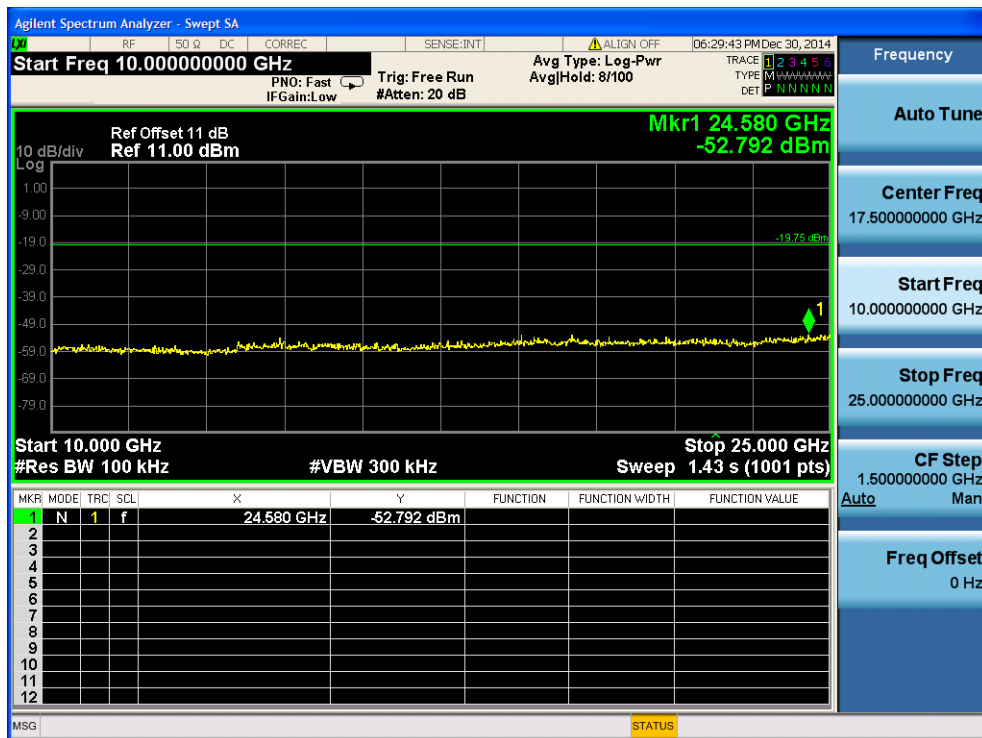
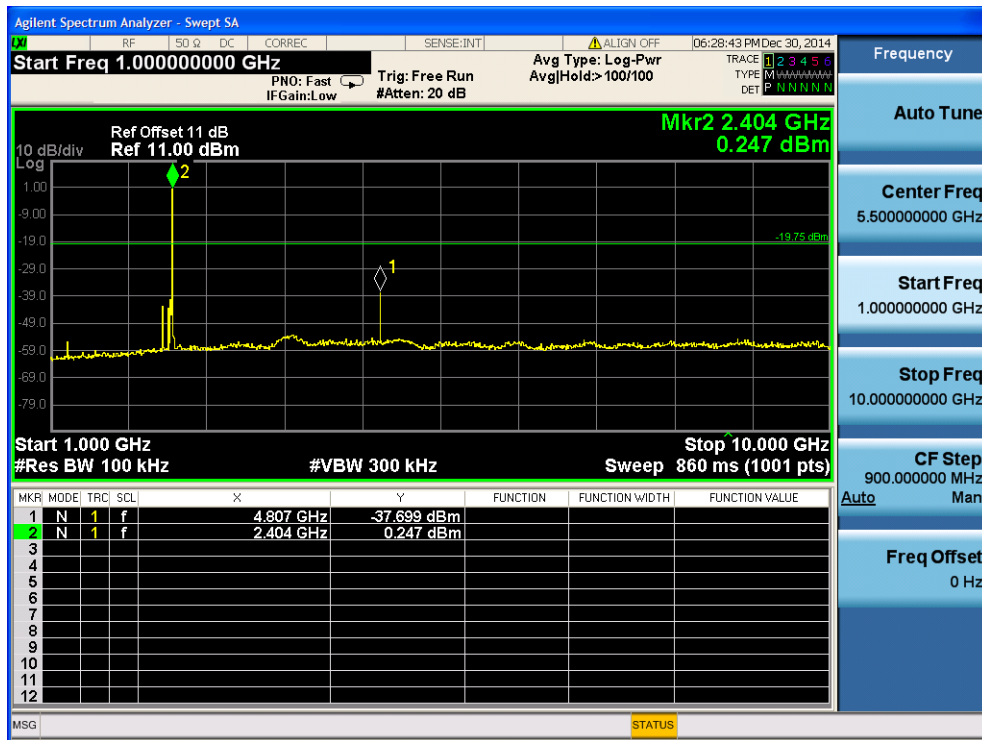
4.4.4 Areas of Concern

None.

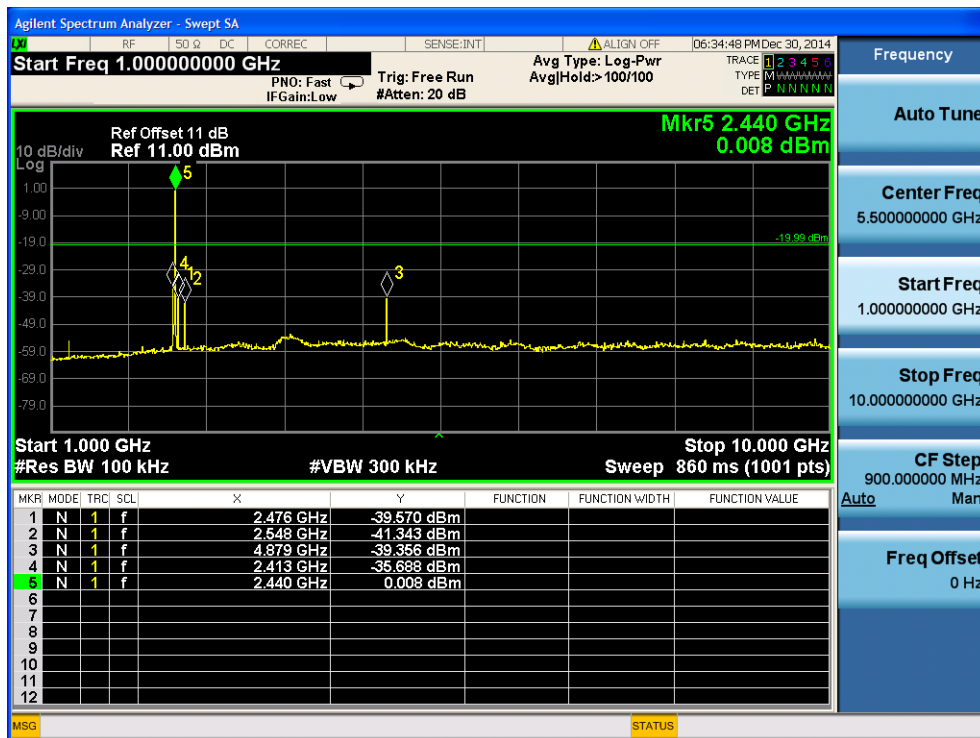
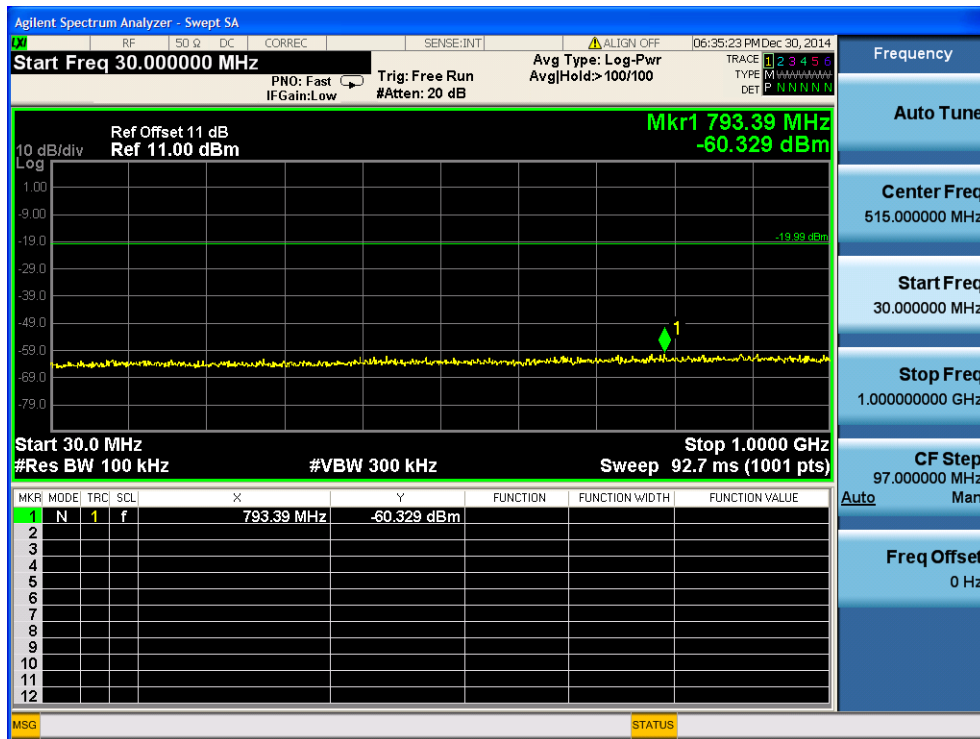
Table 9: Spurious Emissions at Antenna Terminals Results

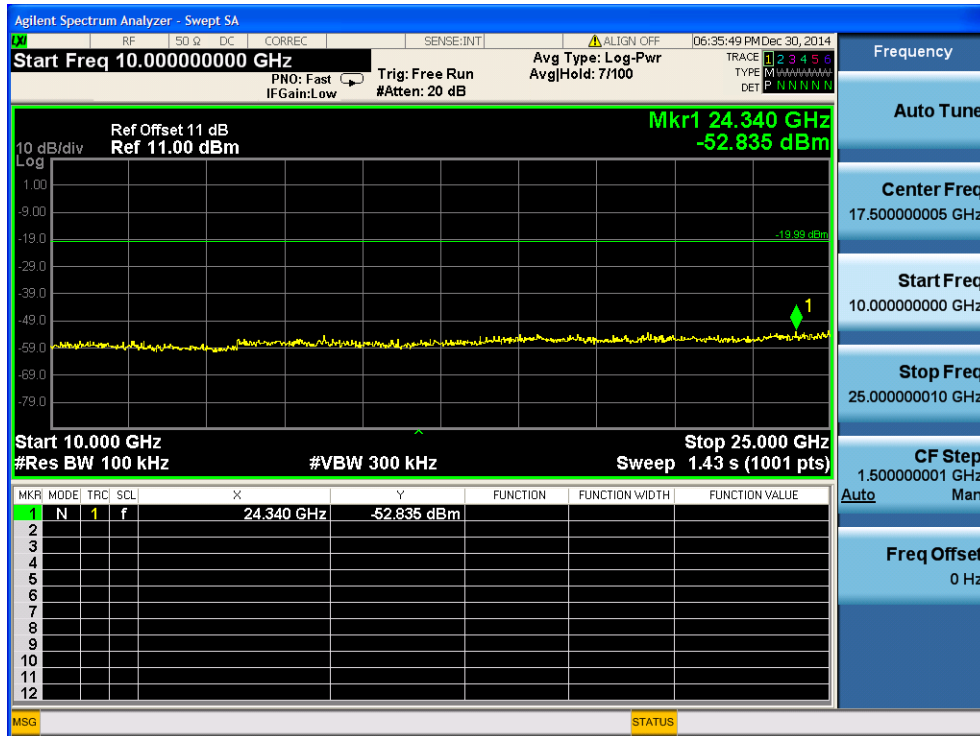
Test Mode: CH0: 2402MHz



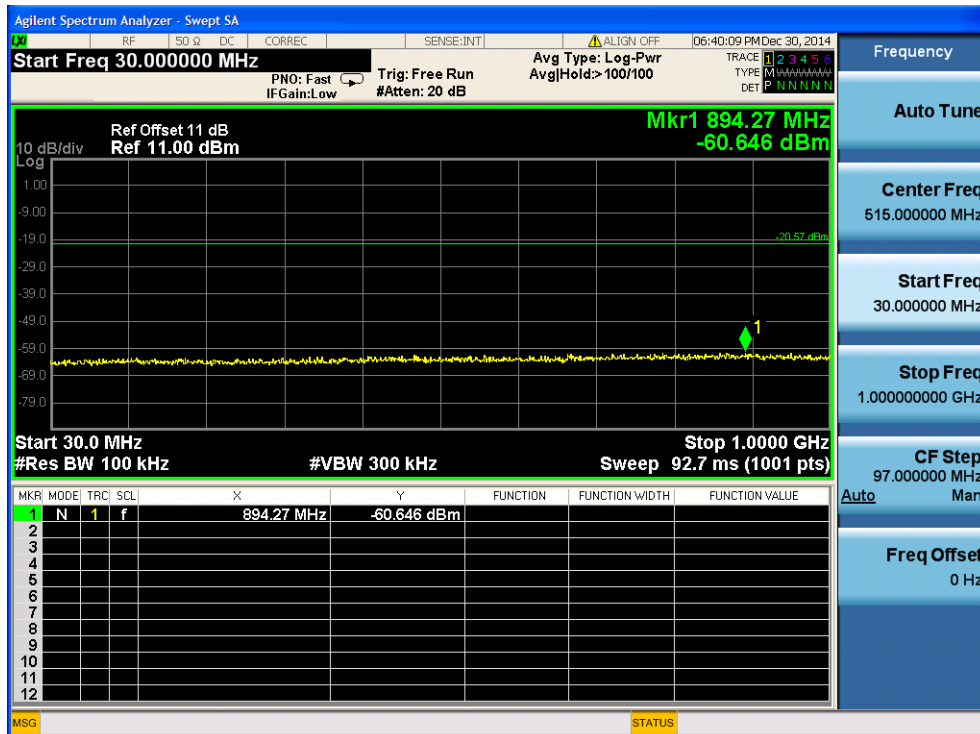


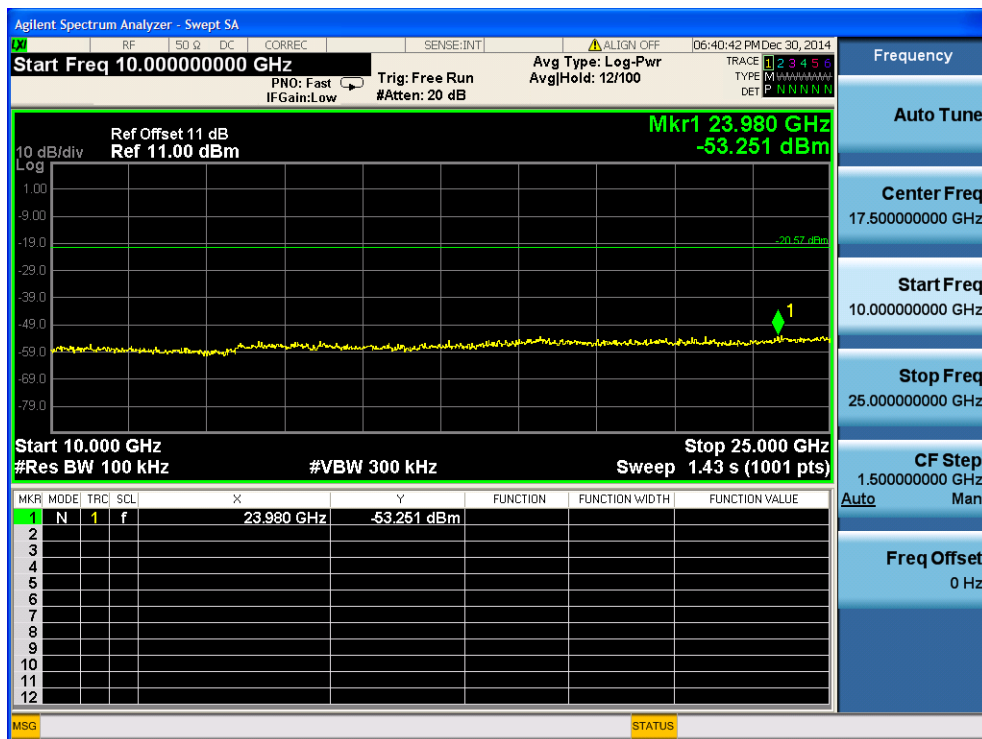
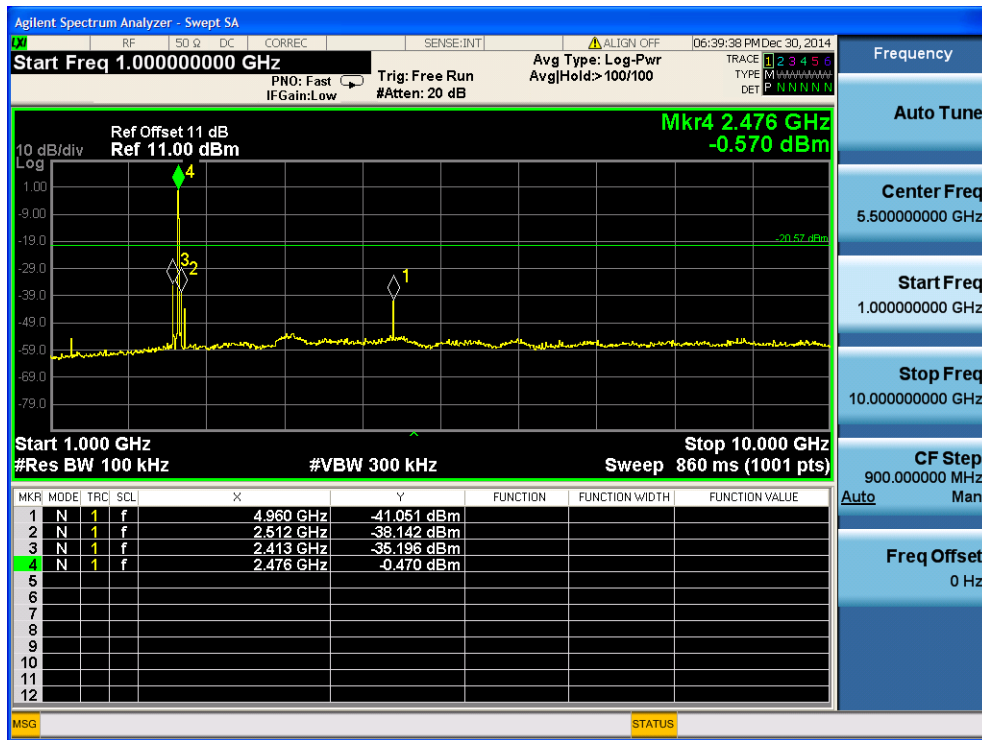
Test Mode: CH19: 2440MHz





Test Mode: CH39: 2480MHz





4.5 Radiated Spurious Emissions: (FCC Part §15.247(c))

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a).

The emissions were measured using the following resolution bandwidths:

Frequency Range	Resolution Bandwidth	Video Bandwidth
30MHz-1000 MHz	120kHz	>30 kHz
>1000 MHz	1 MHz	<30 Hz

Harmonic and Spurious emissions that were identified as coming from the EUT were checked in Peak and in Average Mode. The high frequency, which started from 18 to 26.5GHz, was pre-scan and the test result which was 20dB lower than the limit was not reported.

Peak measurements and average measurements are made. All emissions were determined to have a peak-to-average ratio of less than 20 dB.

4.5.1 Test Procedure

The EUT was placed on motorized turntable for radiated testing on a 3-meter open field test site. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. Receiving antennas were mounted on an antenna mast to determine the height of maximum emissions. The height of the antenna was varied between 1 and 4 meters. The peripherals were placed on the table in accordance with ANSI C63.10-2009. Cables were varied in position to produce maximum emissions. Both the horizontal and vertical field components were measured.

4.5.2 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 Radiated Spurious Emissions requirements.

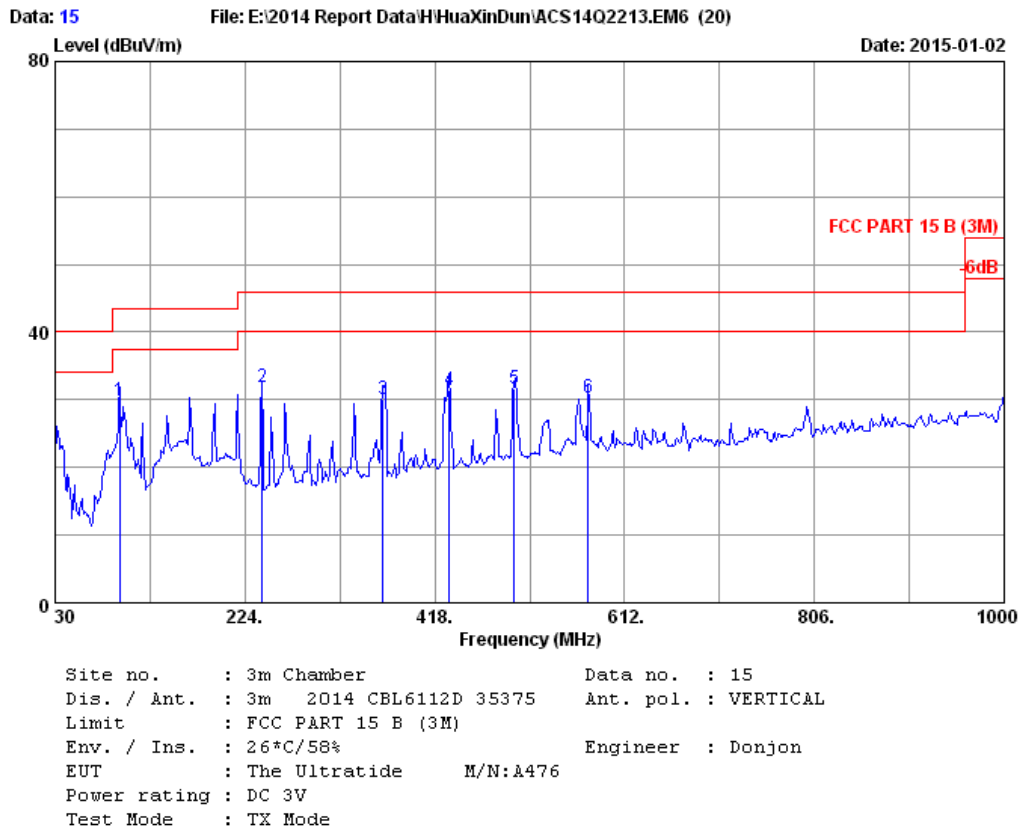
Table 10, 11 provide the test results for Radiated Spurious Emissions.

4.5.3 Areas of Concern

None.

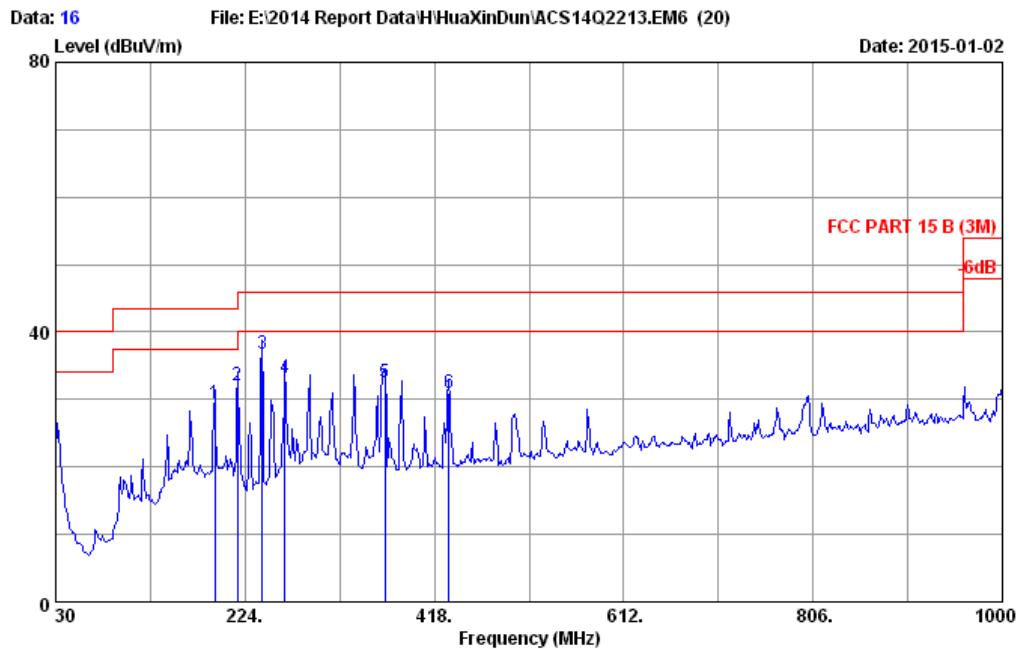
Table 10: Radiated Emission Test Data (Below 1GHz)

Test Mode: TX Mode



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	95.960	10.59	1.09	18.11	29.79	43.50	13.71	QP
2	241.460	12.45	2.04	17.31	31.80	46.00	14.20	QP
3	364.650	15.61	2.63	11.82	30.06	46.00	15.94	QP
4	432.550	17.10	2.95	11.27	31.32	46.00	14.68	QP
5	499.480	18.29	3.22	10.03	31.54	46.00	14.46	QP
6	575.140	19.30	3.60	7.44	30.34	46.00	15.66	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

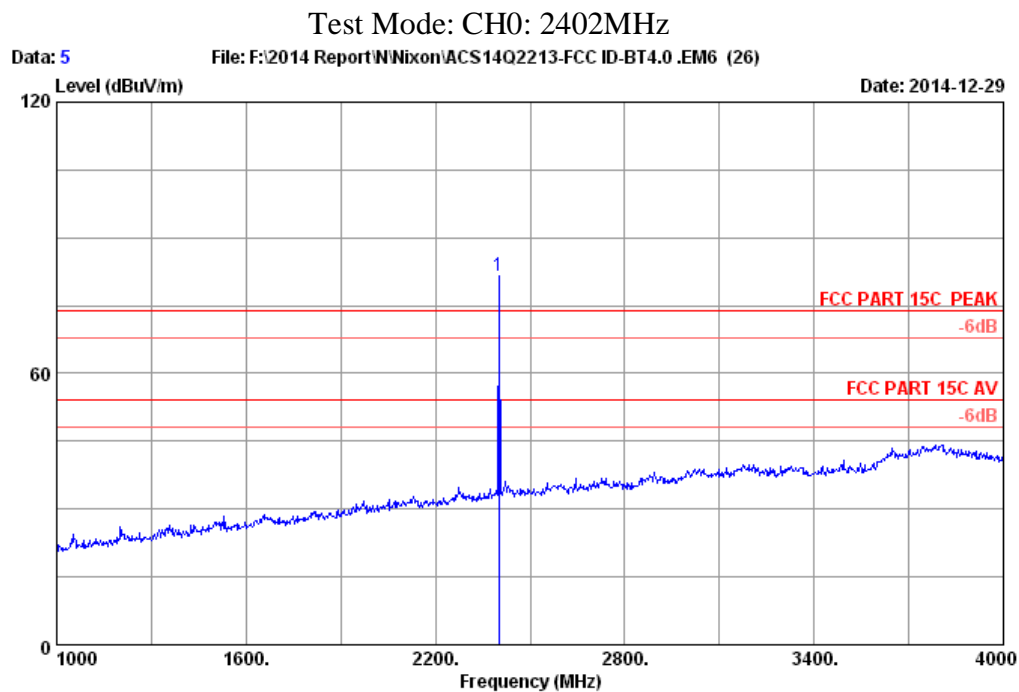


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 26°C/58% Engineer : Donjon
 EUT : The Ultratide M/N:A476
 Power rating : DC 3V
 Test Mode : TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	192.960	9.85	1.80	17.78	29.43	43.50	14.07	QP
2	216.240	10.51	1.92	19.70	32.13	46.00	13.87	QP
3	241.460	12.45	2.04	22.24	36.73	46.00	9.27	QP
4	264.740	13.93	2.14	17.20	33.27	46.00	12.73	QP
5	367.560	15.65	2.65	14.15	32.45	46.00	13.55	QP
6	432.550	17.10	2.95	11.03	31.08	46.00	14.92	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Table 11: Radiated Emission Test Data (Above 1GHz)

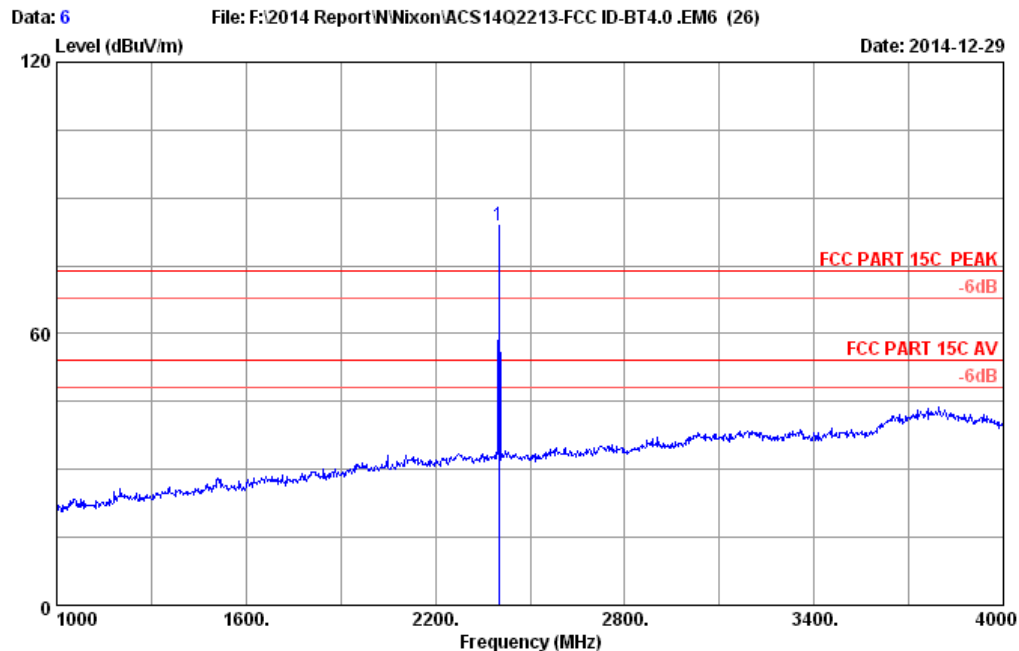


Site no.	: 3m Chamber	Data no.	: 5
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2402MHz		
M/N	: A476		

No.	Freq. (MHz)	Ant. Cable AMP			Reading (dBuV)	Emission			Remark
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2402.000	28.18	5.80	35.70	83.31	81.59	74.00	-7.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor

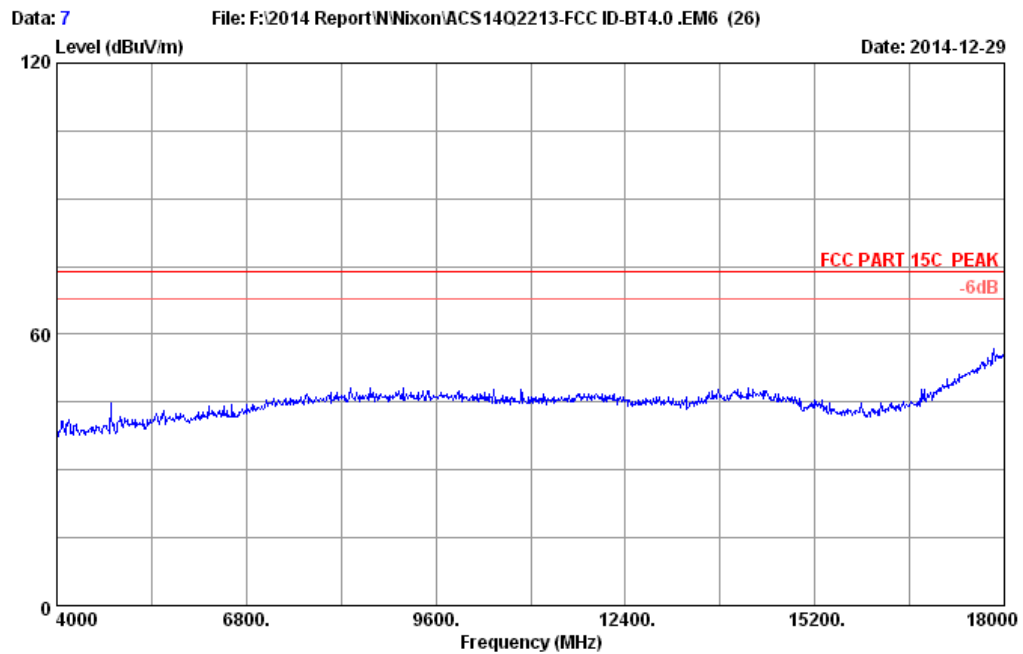
2. The emission levels that are 20dB below the official
limit are not reported.



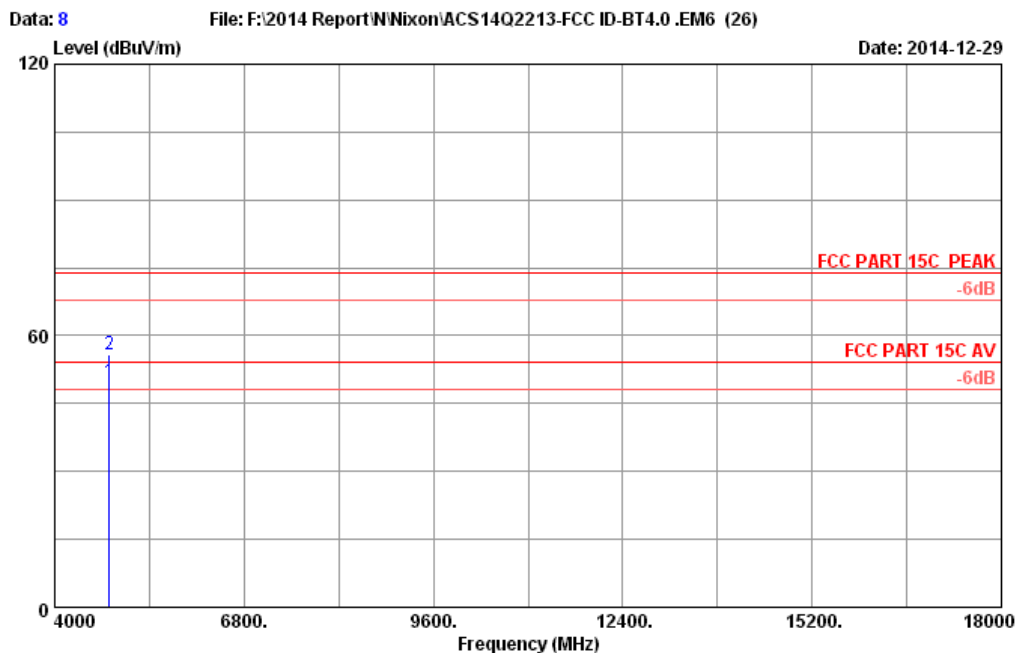
Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon
EUT : The Ultratide
Power rating : DC 3V
Test Mode : GFSK 2402MHz
M/N : A476

No.	Freq. (MHz)	Ant. Cable AMP			Emission				Remark
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2402.000	28.18	5.80	35.70	85.63	83.91	74.00	-9.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



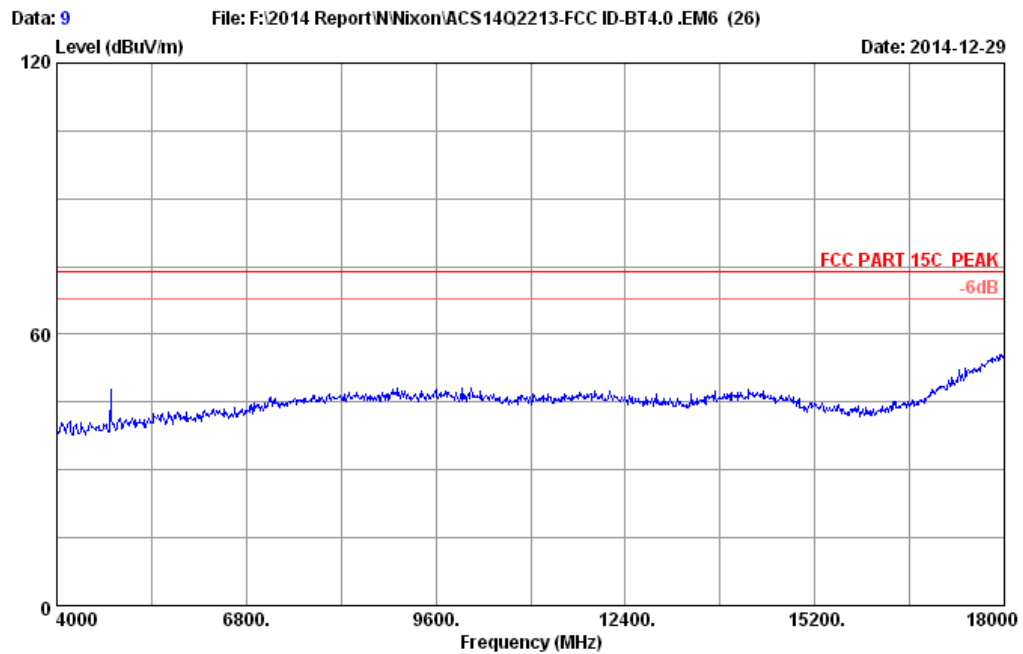
Site no.	: 3m Chamber	Data no.	: 7
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2402MHz		
M/N	: A476		



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2402MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.000	32.85	8.56	35.70	43.94	49.65	54.00	4.35	Average
2	4804.000	32.85	8.56	35.70	50.20	55.91	74.00	18.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

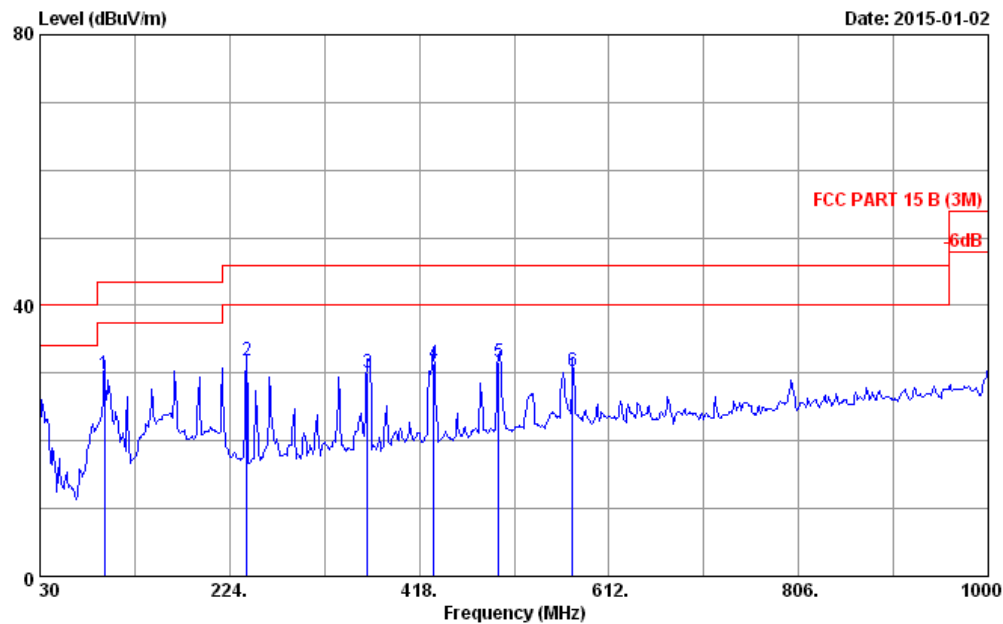


Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2402MHz		
M/N	: A476		

Data: 15

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Date: 2015-01-02

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Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 26°C/58% Engineer : Donjon
 EUT : The Ultratide M/N:A476
 Power rating : DC 3V
 Test Mode : TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	95.960	10.59	1.09	18.11	29.79	43.50	13.71	QP
2	241.460	12.45	2.04	17.31	31.80	46.00	14.20	QP
3	364.650	15.61	2.63	11.82	30.06	46.00	15.94	QP
4	432.550	17.10	2.95	11.27	31.32	46.00	14.68	QP
5	499.480	18.29	3.22	10.03	31.54	46.00	14.46	QP
6	575.140	19.30	3.60	7.44	30.34	46.00	15.66	QP

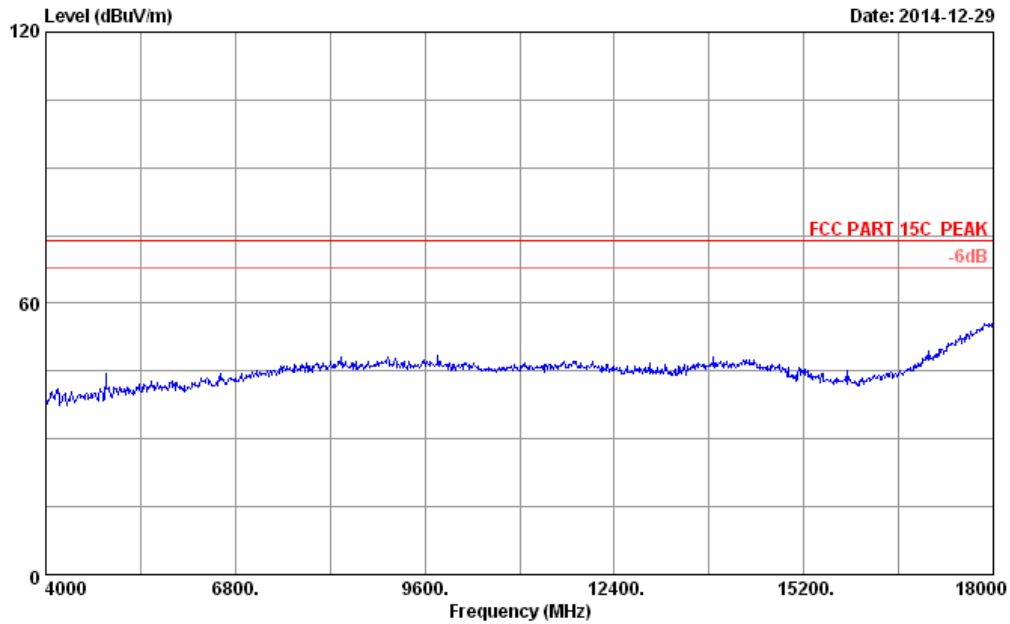
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Test Mode: CH19: 2440MHz

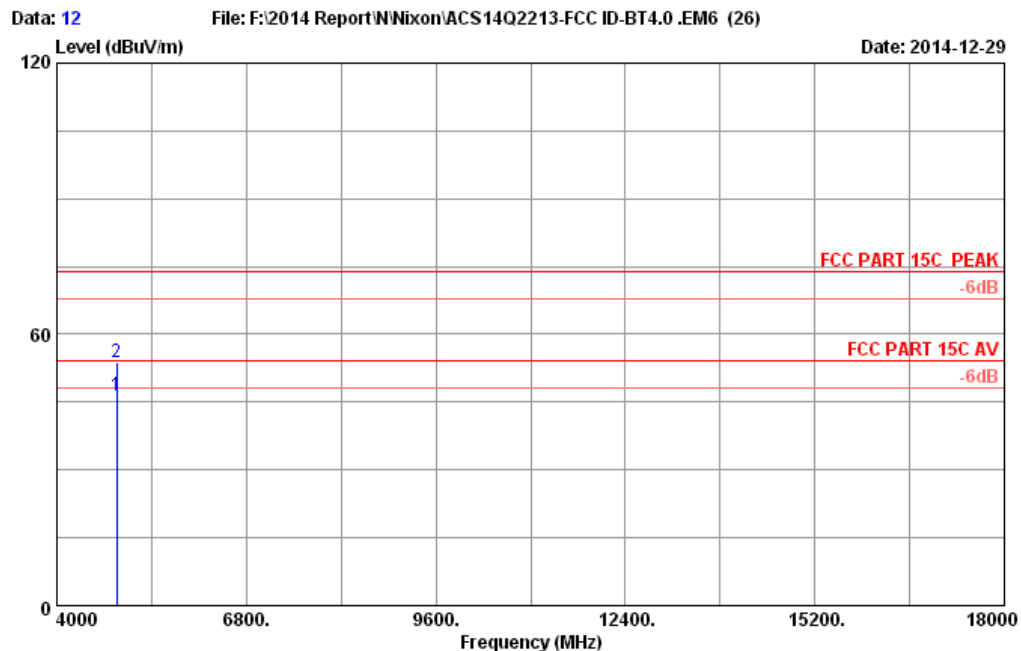
Data: 11

File: F:\2014 Report\N\Nixon\ACS14Q2213-FCC ID-BT4.0.EM6 (26)

Date: 2014-12-29



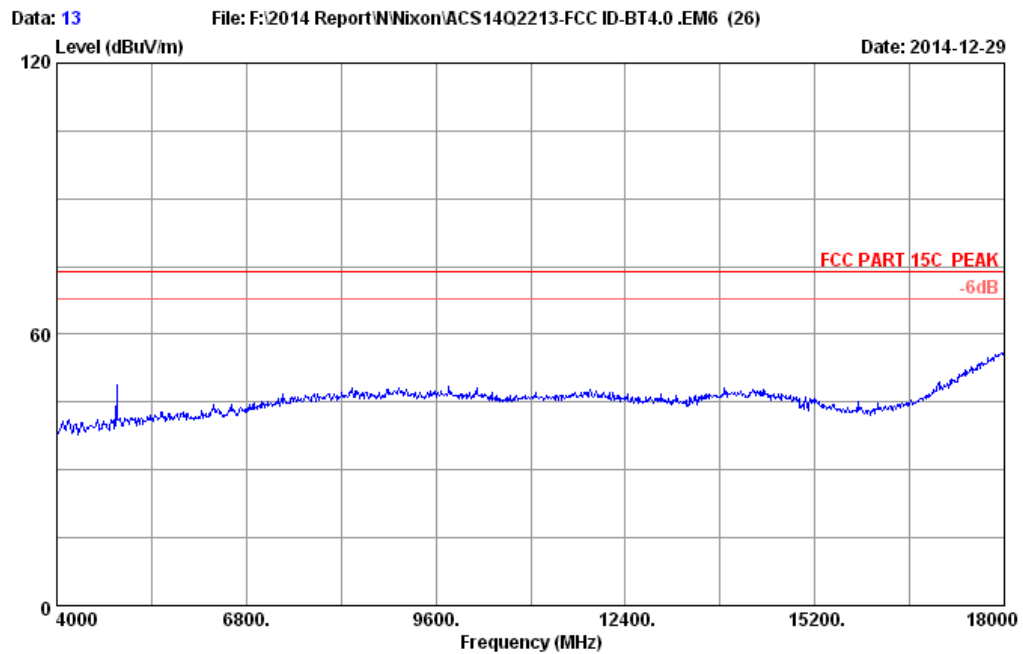
Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2440MHz		
M/N	: A476		



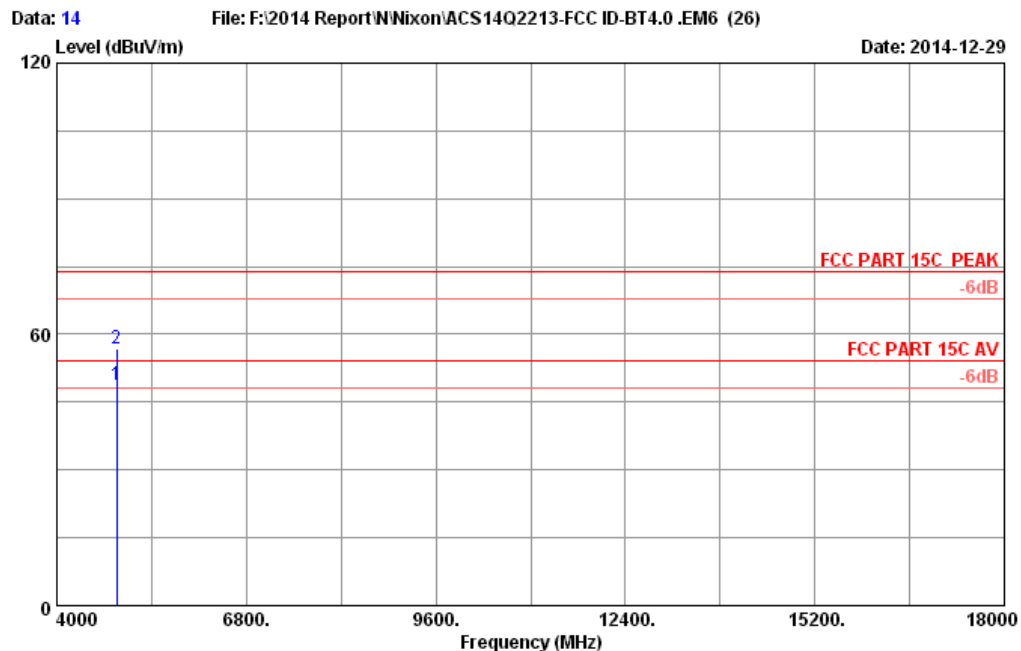
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2440MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.000	32.98	8.64	35.70	40.67	46.59	54.00	7.41	Average
2	4880.000	32.98	8.64	35.70	47.95	53.87	74.00	20.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported



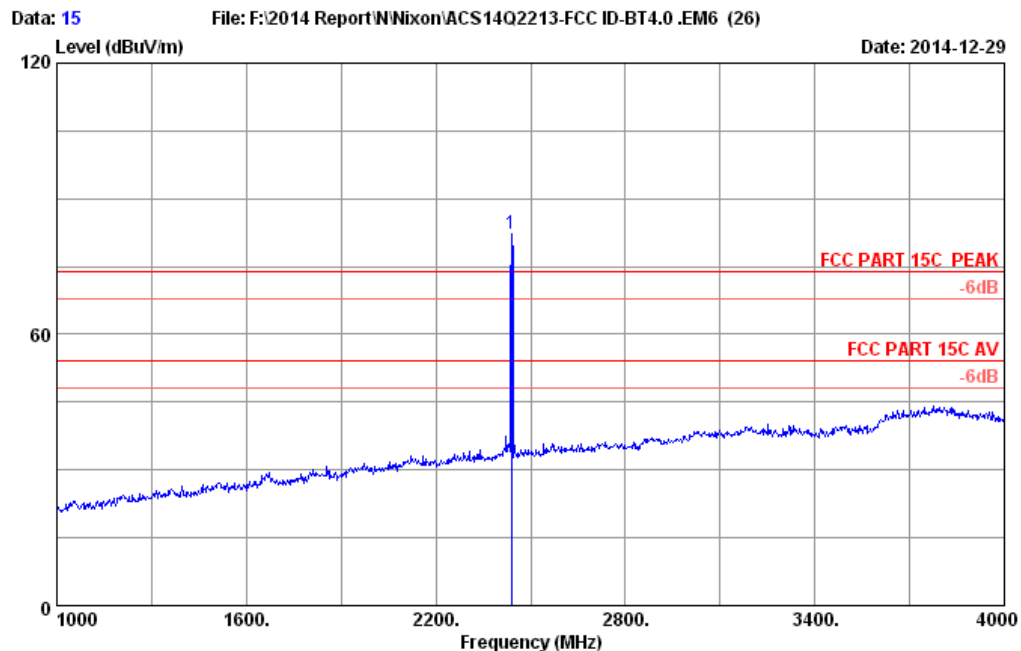
Site no.	: 3m Chamber	Data no.	: 13
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2440MHz		
M/N	: A476		



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2440MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.000	32.98	8.64	35.70	42.94	48.86	54.00	5.14	Average
2	4880.000	32.98	8.64	35.70	50.95	56.87	74.00	17.13	Peak

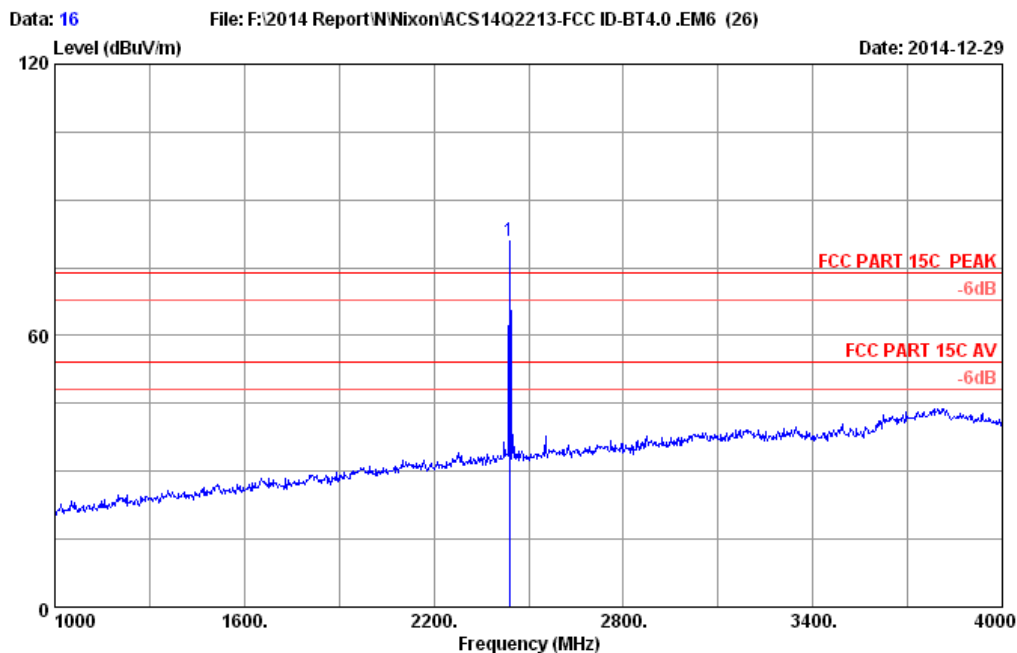
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2440MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Cable AMP			Reading (dBuV)	Emission			Remark
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2440.000	28.27	5.86	35.70	83.67	82.10	74.00	-8.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2440MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.000	28.27	5.86	35.70	82.39	80.82	74.00	-6.82	Peak

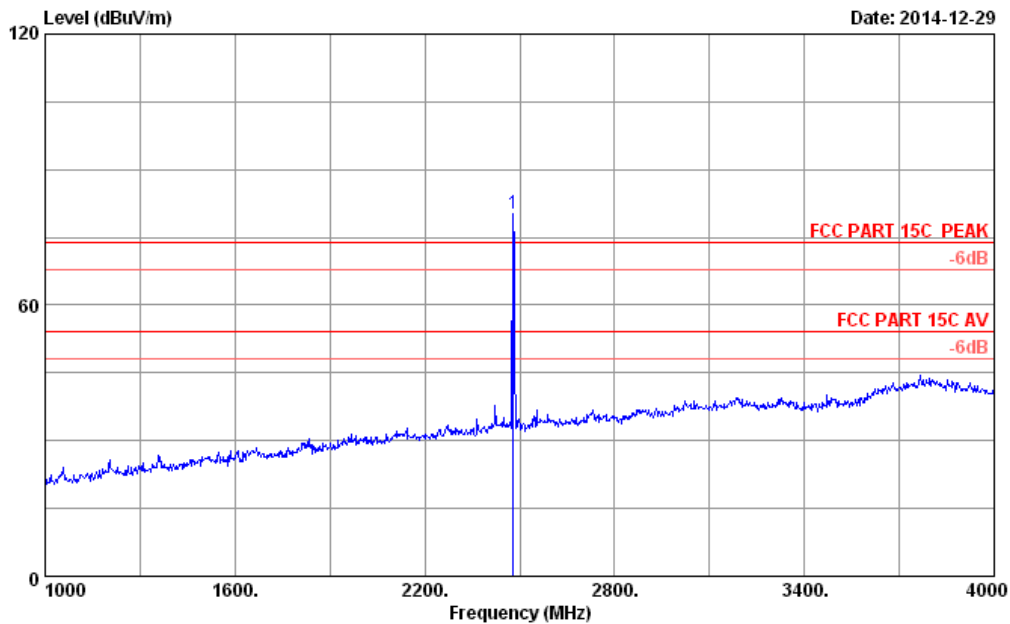
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Test Mode: CH39: 2480MHz

Data: 17

File: F:\2014 Report\N\Nixon\ACS14Q2213-FCC ID-BT4.0.EM6 (26)

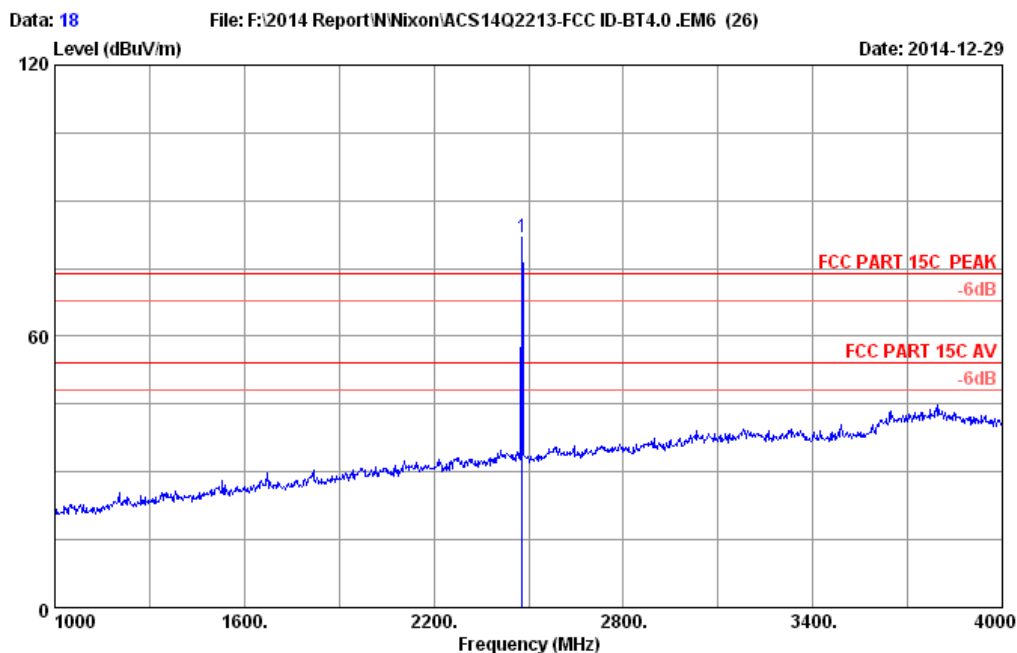
Date: 2014-12-29



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission			Margin	Remark
						Level (dBUV/m)	Limits (dBUV/m)			
1	2480.000	28.36	5.91	35.70	81.49	80.06	74.00	-6.06	Peak	

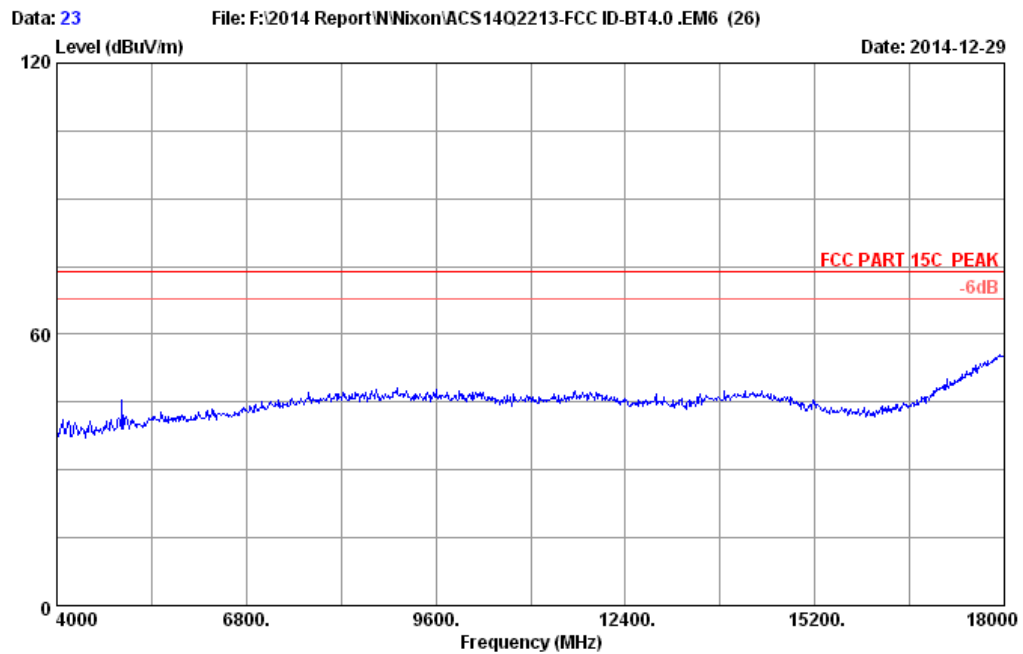
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



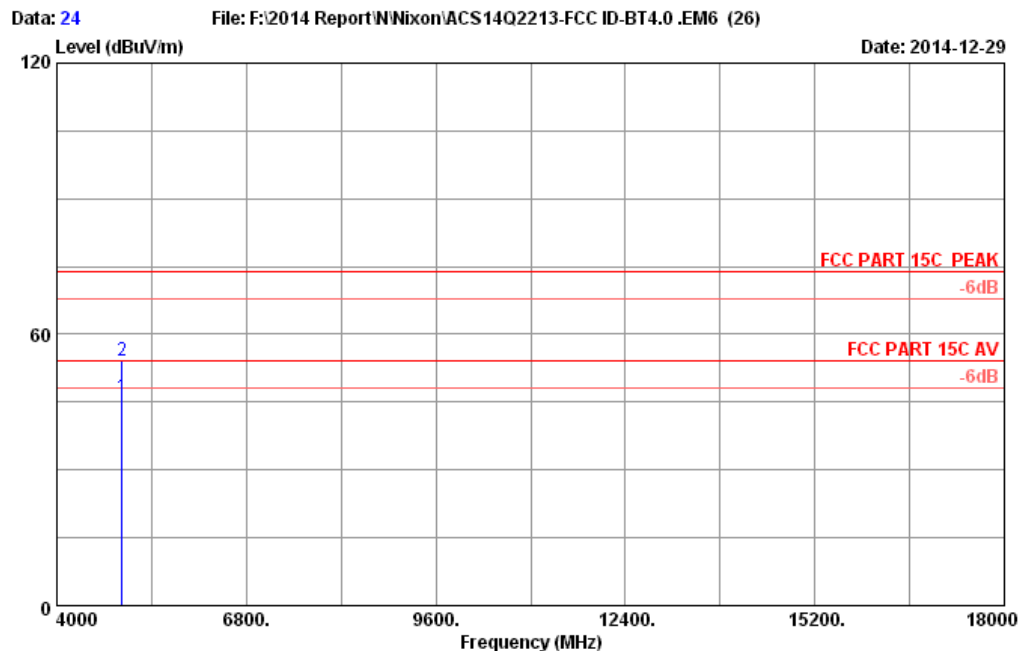
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.36	5.91	35.70	83.17	81.74	74.00	-7.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



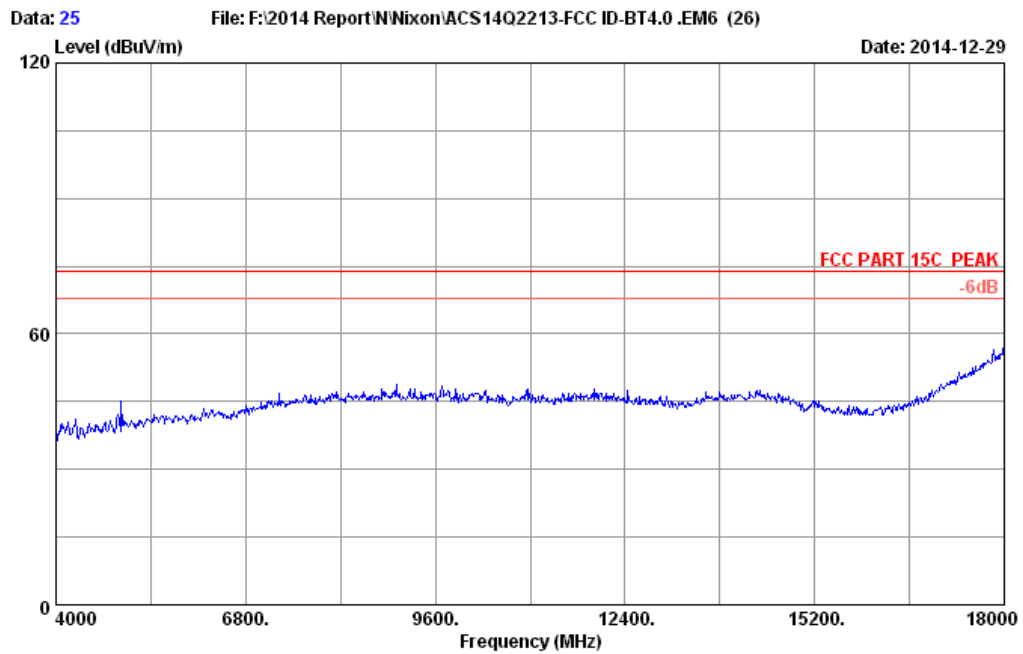
Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2480MHz		
M/N	: A476		



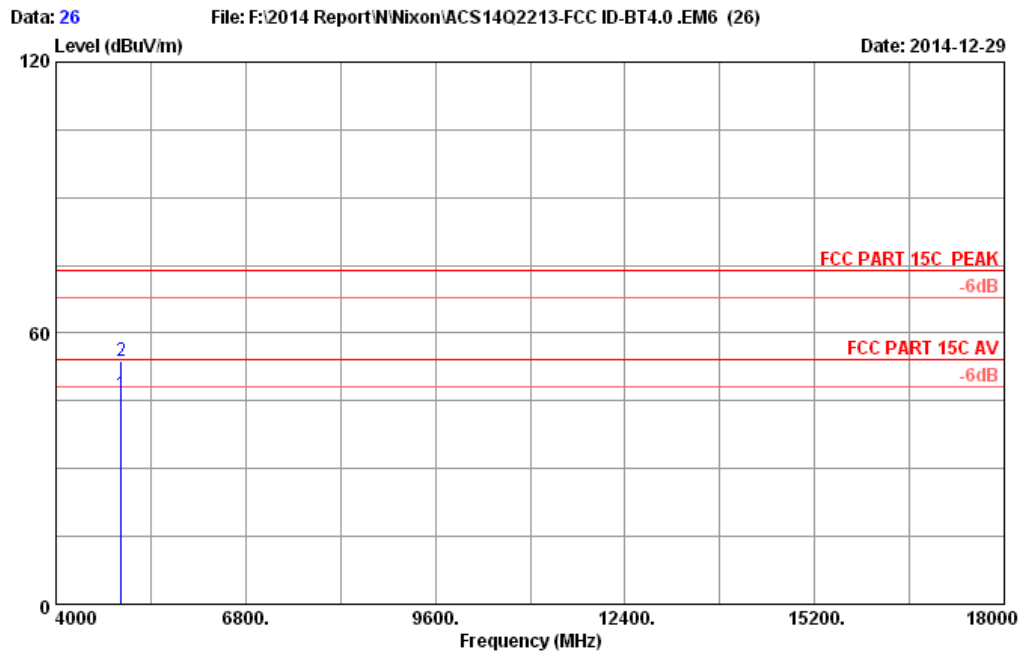
Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.000	33.13	8.72	35.70	39.88	46.03	54.00	7.97	Average
2	4960.000	33.13	8.72	35.70	47.92	54.07	74.00	19.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported



Site no.	: 3m Chamber	Data no.	: 25
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2480MHz		
M/N	: A476		



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.000	33.13	8.72	35.70	40.31	46.46	54.00	7.54	Average
2	4960.000	33.13	8.72	35.70	47.55	53.70	74.00	20.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

4.6 Band Edge Measurements (Conducted)

Conducted band edge measurements at 2390MHz and 2483MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the shielding room and the table lists the corrected levels of the emissions at the band edge for comparison to the limit.

4.6.1 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 Conducted band edge emissions requirements.

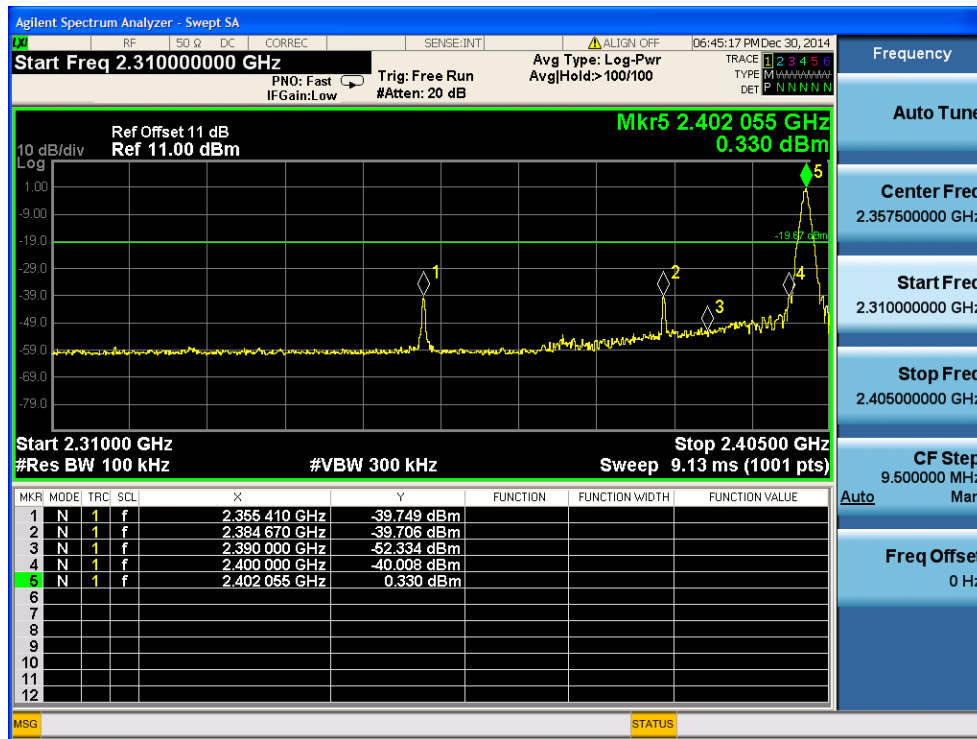
Table 12 provides the test results for Conducted band edge emissions.

4.6.2 Areas of Concern

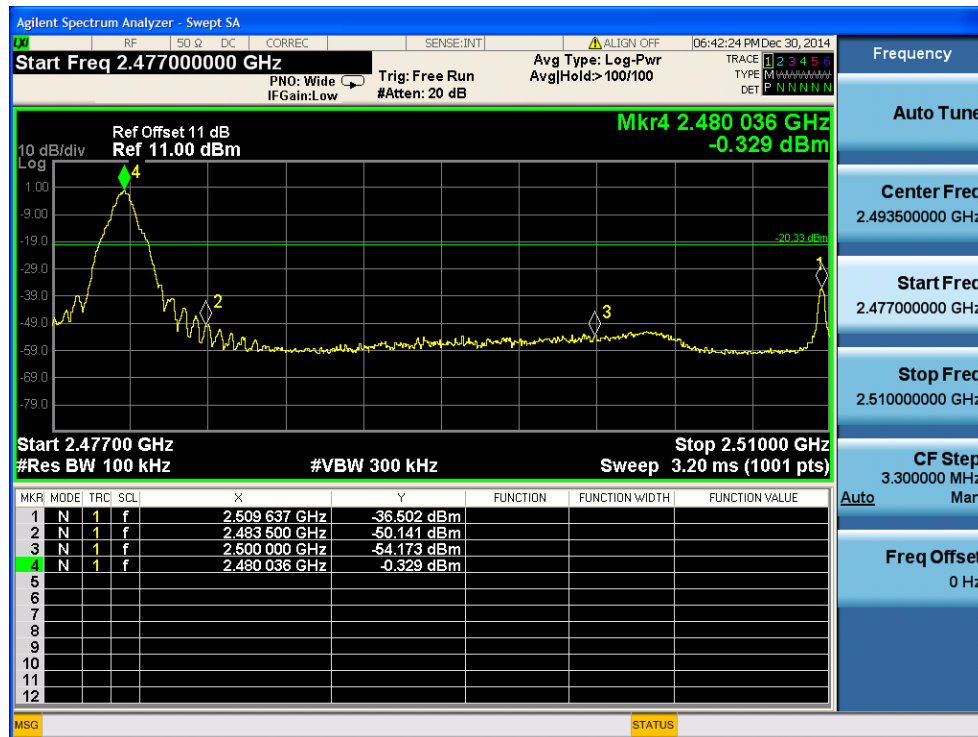
None.

Table 12: Band Edge Measurements (Conducted)

Test Mode:CH0: 2402MHz



Test Mode:CH39: 2480MHz



4.7 Band Edge Measurements (Radiated)

Radiated band edge measurements at 2390MHz and 2483MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 1 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz for average levels).

4.7.1 Test Data

The EUT The Ultratide complied with the FCC Part 15.247 Radiated band edge emissions requirements.

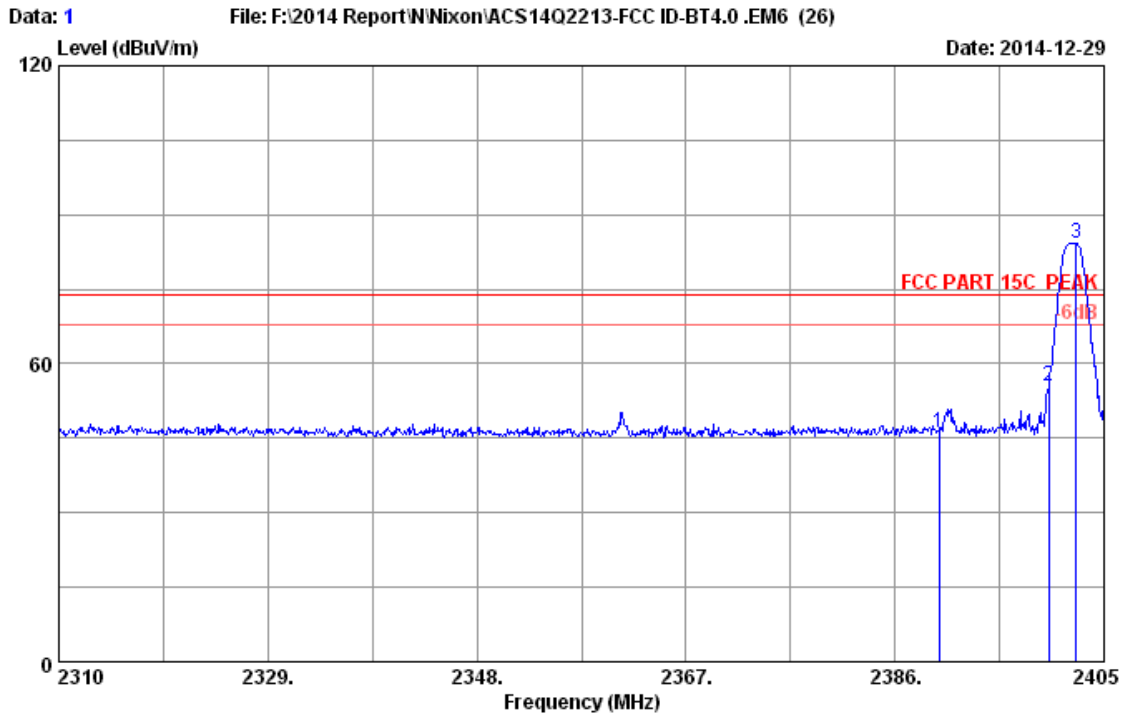
Table 13 provides the test results for Radiated band edge emissions.

4.7.2 Areas of Concern

None.

Table 13: Band Edge Measurements (Radiated)

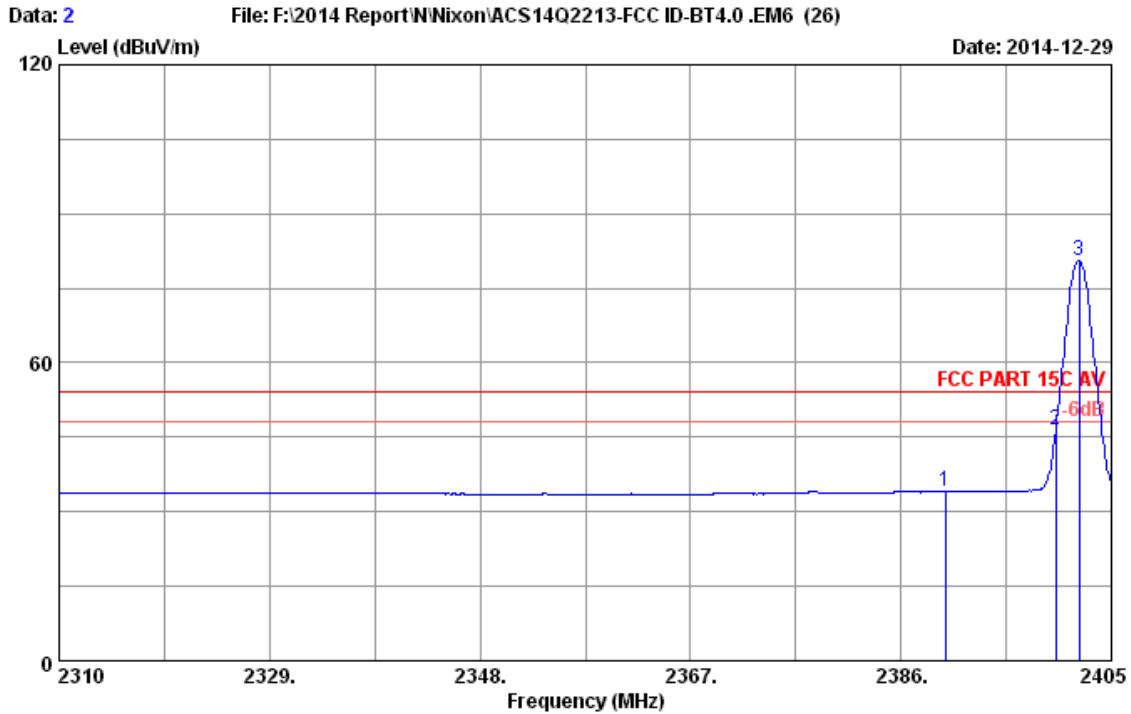
Test Mode: CH0: 2402MHz



Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%		
Engineer	: Donjon		
EUT	: The Ultratide		
Power rating	: DC 3V		
Test Mode	: GFSK 2402MHz		
M/N	: A476		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2389.990	28.16	5.78	35.70	47.79	46.03	74.00	27.97	Peak
2	2400.000	28.18	5.80	35.70	57.05	55.33	74.00	18.67	Peak
3	2402.435	28.19	5.80	35.70	85.89	84.18	74.00	-10.18	Peak

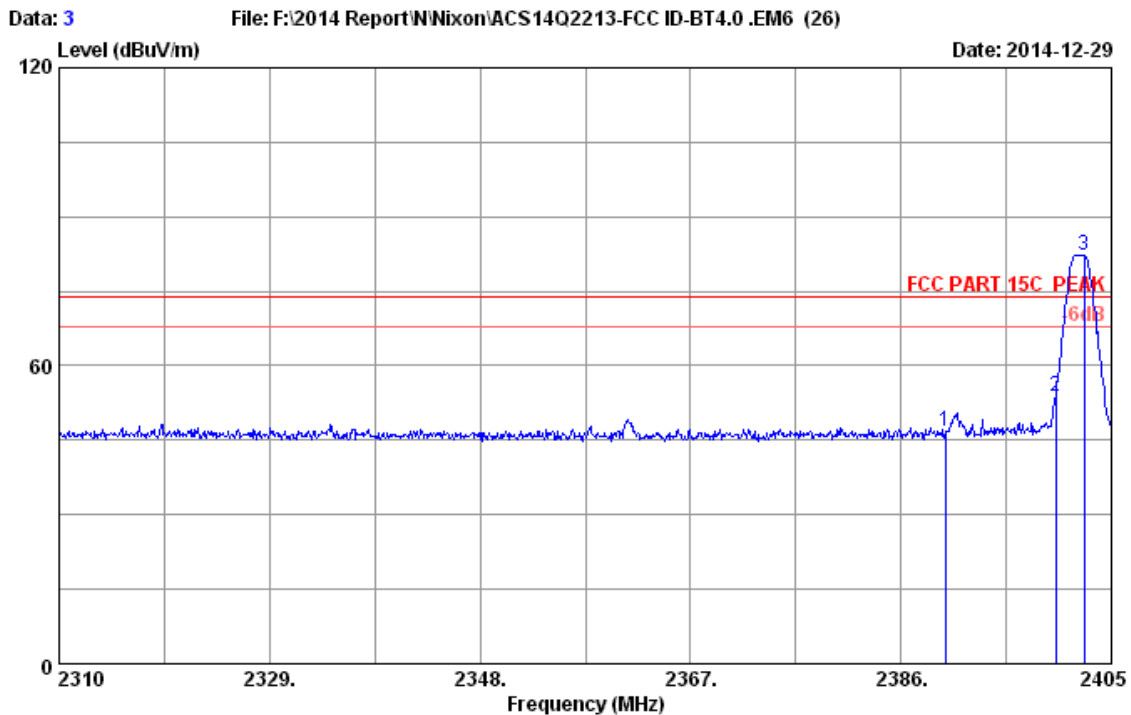
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2402MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	35.75	33.99	54.00	20.01	Average
2	2400.000	28.18	5.80	35.70	48.29	46.57	54.00	7.43	Average
3	2402.055	28.18	5.80	35.70	82.26	80.54	54.00	-26.54	Average

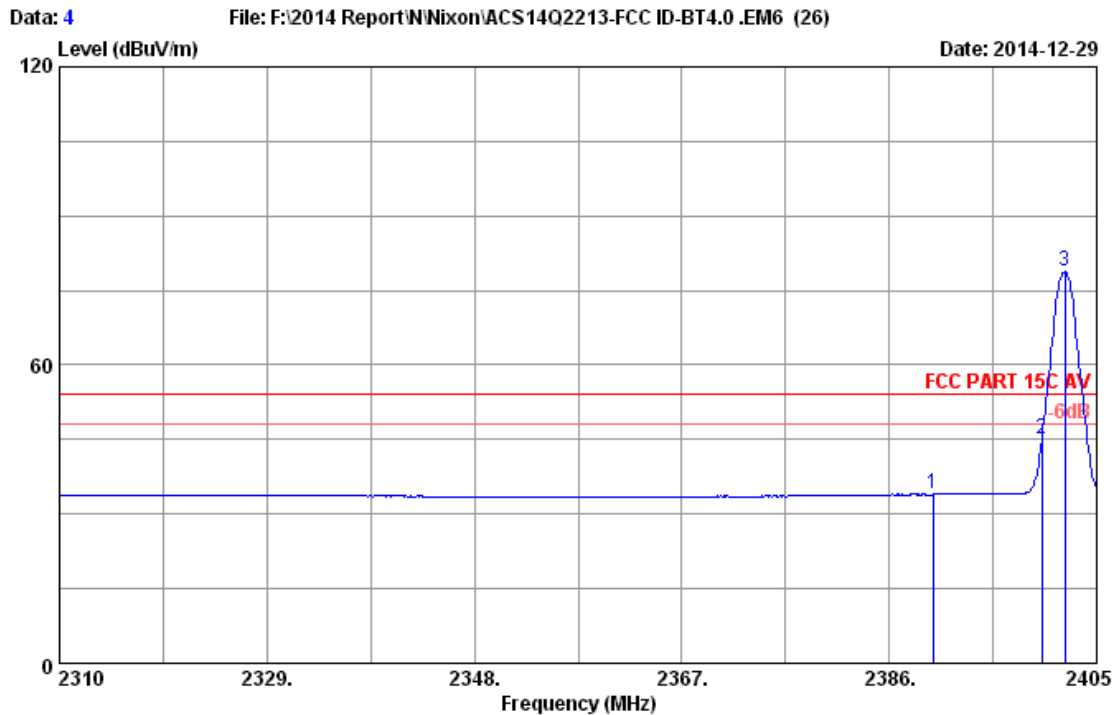
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2402MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	48.41	46.65	74.00	27.35	Peak
2	2400.000	28.18	5.80	35.70	55.53	53.81	74.00	20.19	Peak
3	2402.530	28.19	5.80	35.70	83.98	82.27	74.00	-8.27	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2402MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.990	28.16	5.78	35.70	35.72	33.96	54.00	20.04	Average
2	2400.000	28.18	5.80	35.70	46.92	45.20	54.00	8.80	Average
3	2402.055	28.18	5.80	35.70	80.48	78.76	54.00	-24.76	Average

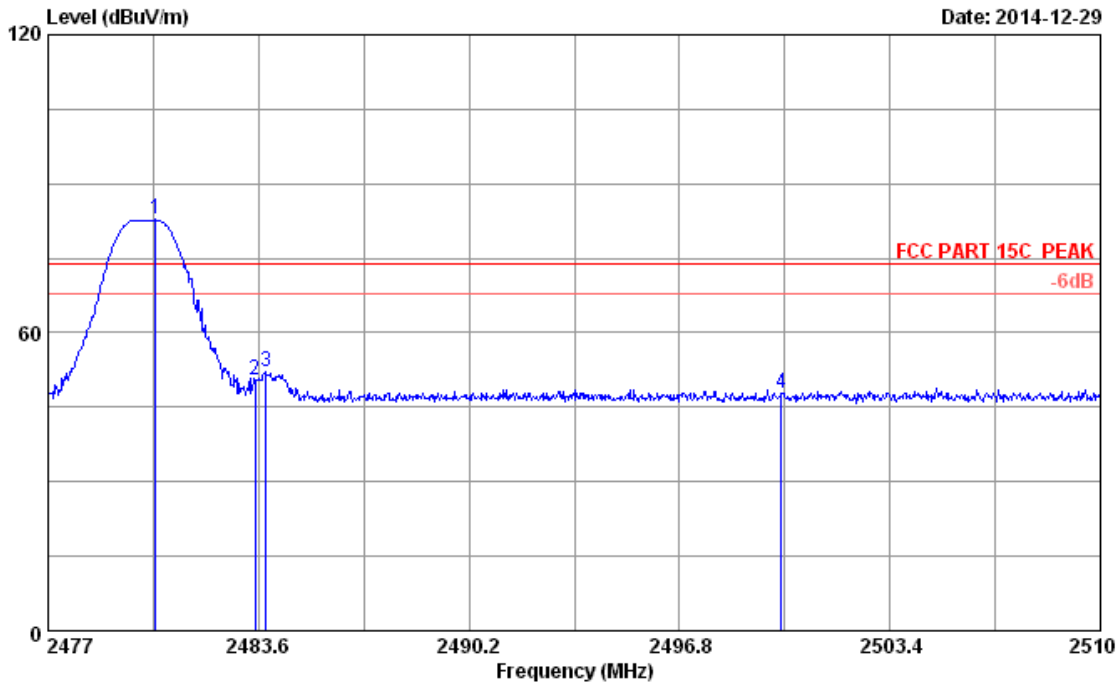
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 - Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Test Mode: CH39: 2480MHz

Data: 19

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Date: 2014-12-29

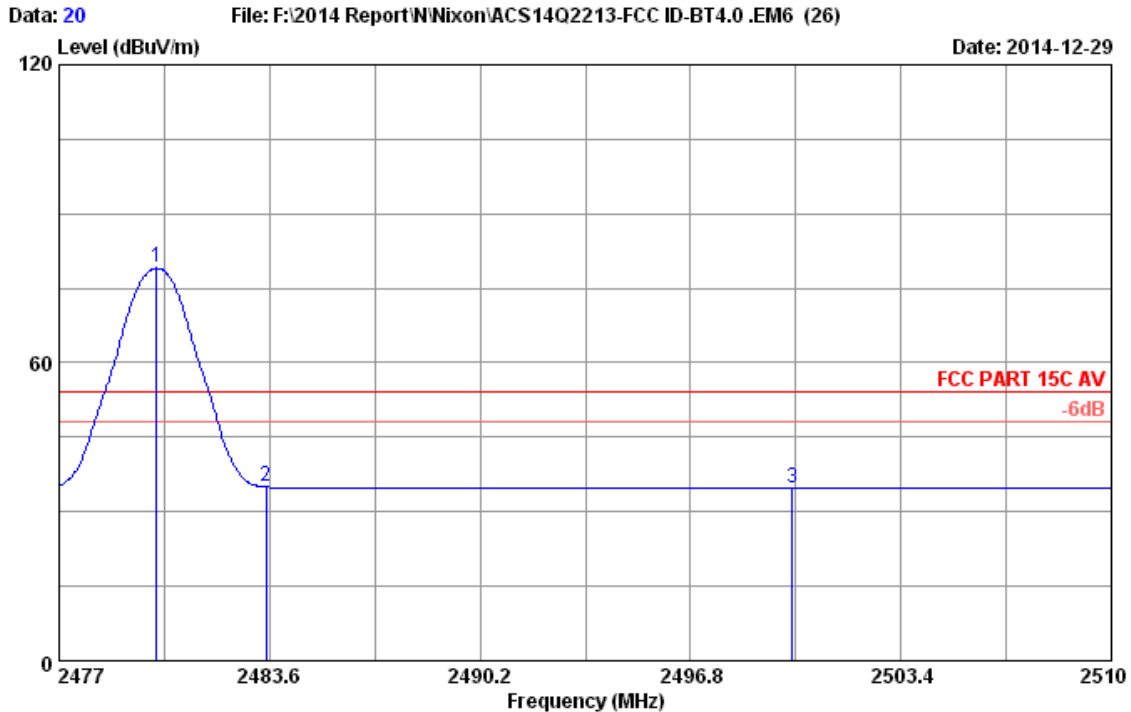


Site no. : 3m Chamber
Dis. / Ant. : 3m 2014 3115 (4580)
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Donjon
EUT : The Ultratide
Power rating : DC 3V
Test Mode : GFSK 2480MHz
M/N : A476

Data no. : 19
Ant. pol. : HORIZONTAL

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.366	28.36	5.91	35.70	84.17	82.74	74.00	-8.74	Peak
2	2483.500	28.36	5.92	35.70	51.74	50.32	74.00	23.68	Peak
3	2483.831	28.36	5.92	35.70	53.54	52.12	74.00	21.88	Peak
4	2500.000	28.40	5.94	35.70	49.20	47.84	74.00	26.16	Peak

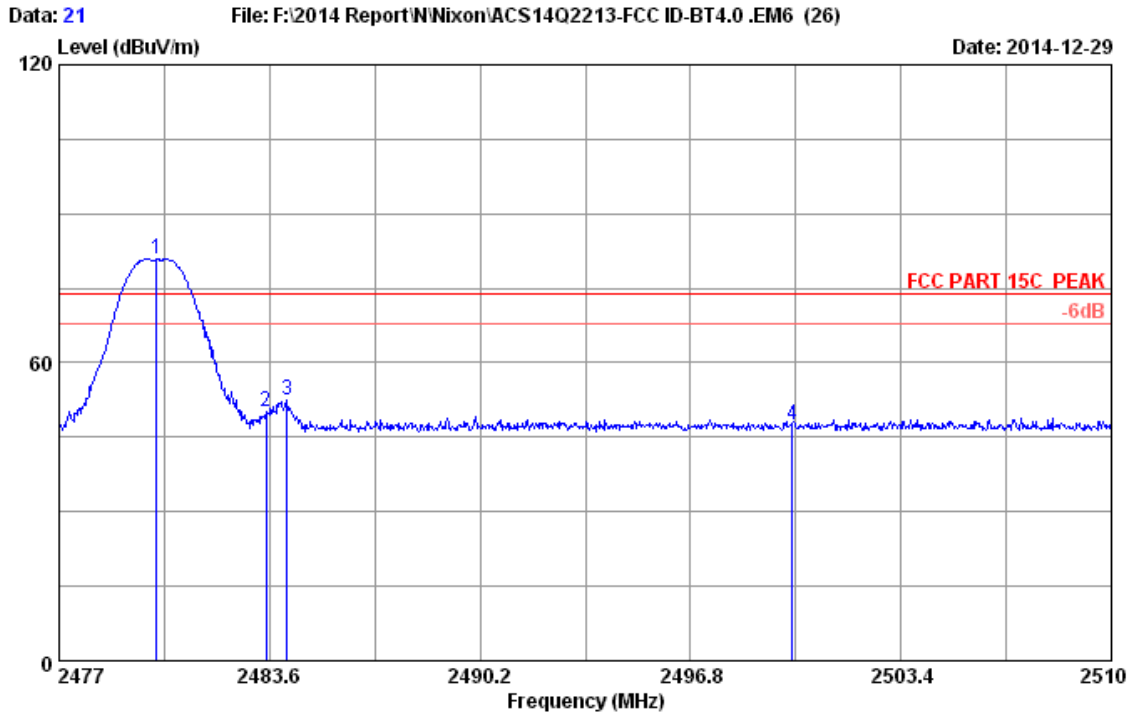
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	28.36	5.91	35.70	80.49	79.06	54.00	-25.06	Average
2	2483.500	28.36	5.92	35.70	36.38	34.96	54.00	19.04	Average
3	2500.000	28.40	5.94	35.70	36.03	34.67	54.00	19.33	Average

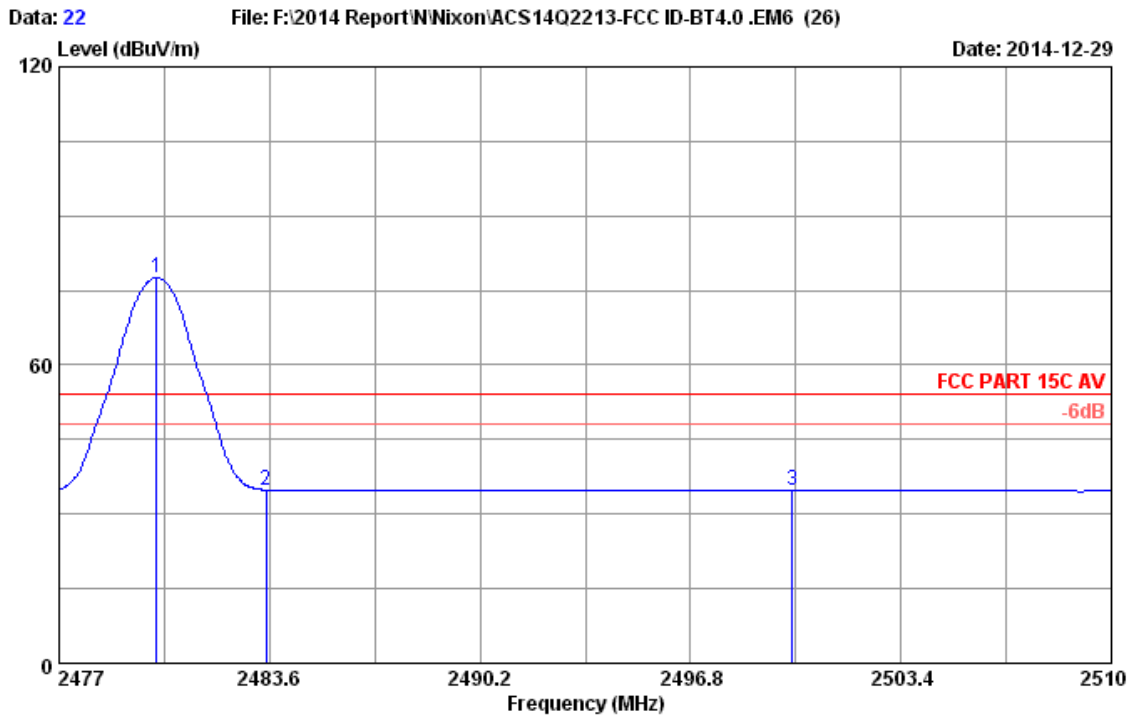
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	28.36	5.91	35.70	82.26	80.83	74.00	-6.83	Peak
2	2483.500	28.36	5.92	35.70	51.65	50.23	74.00	23.77	Peak
3	2484.161	28.37	5.92	35.70	53.73	52.32	74.00	21.68	Peak
4	2500.000	28.40	5.94	35.70	48.94	47.58	74.00	26.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Donjon
 EUT : The Ultratide
 Power rating : DC 3V
 Test Mode : GFSK 2480MHz
 M/N : A476

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.069	28.36	5.91	35.70	78.97	77.54	54.00	-23.54	Average
2	2483.500	28.36	5.92	35.70	36.29	34.87	54.00	19.13	Average
3	2500.000	28.40	5.94	35.70	36.06	34.70	54.00	19.30	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

4.8 AC Powerline Conducted Emissions: (FCC Part §15.207)

According to Paragraph (c) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

-----The End-----