



FCC Test Report

Test report no.: EMC_958_FCC15.407_2005

FCC Part 15.407 for UNII Devices /
CANADA RSS-210 Issue 5 for LELEA Devices

EUT: iX104C2

FCC ID: Q2GIX104-138, Q2GIX104-139 & Q2GIX104-140
IC ID: 4596A-IX104WBG



TTI-P-G 081/94-A0

Accredited according to **ISO/IEC 17025**



**Bluetooth Qualification
Test Facility
(BQTF)**



FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

411 Dixon Landing Road • Milpitas, CA 95035 • U.S.A.

Phone: + 1 (408) 586 6200 • Fax: + 1 (408) 586 6299 • E-mail: info@cetecomusa.com • <http://www.cetecom.com>

CETECOM Inc. is a Delaware Corporation with Corporation number: 2113686
Board of Directors: Dr. Harald Ansorge, Dr. Klaus Matkey, Hans Peter May

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1.1	Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM Inc USA.

TEST REPORT PREPARED BY:**EMC Engineer: Pete Krebill**

1.2 Testing laboratory
CETECOM Inc.
411 Dixon Landing Road, Milpitas, CA-95035, USA
Phone : +1 408 586 6200 Fax : +1 408 586 6299
E-mail : lothar.schmidt@cetecomusa.com
Internet: www.cetecom.com

2.2 Details of applicant

Name : Xplore Technologies
Street : 14000 Summit Drive
City / Zip Code : Austin, TX 78728
Country : USA
Contact : Douglas Fowler
Telephone : (512) 336-7797 ext 226
Tele-fax : (512) 336-7791
e-mail : mrzzaz@xploretech.com

1.4 Application details

Date of receipt test item : 2005-06-11
Date of test : 2005-06-15 to 2005-06-20

2.2 Test item

Manufacturer : Applicant
Model No. (EUT) : iX104C2
Description : Personal Computer Tablet
FCC ID : Q2GIX104-138, Q2GIX104-139 & Q2GIX104-140
IC ID : 4596A-IX104WBG

Additional information

Frequency : 2412MHz – 2472MHz for 2.4GHz band (not covered in this test report)
5180MHz – 5320MHz for 5GHz band (covered in this test report)
Type of modulation : DSSS / OFDM (orthogonal frequency division multiplexing)
Number of channels : 13 for 2.4GHz band
35 for 5GHz band
Antenna : Embedded
Power supply : 3.3 VDC from Host
Output power : 27.15 dBm (518.8 mW) EIRP for 5180-5320GHz
Extreme temp. Tolerance : 0°C to +70°C

1.6 Test standards: **FCC Part 15 §15.407 / CANADA RSS-210**
Measurements done as per DA 02-2138

PROJECT OVERVIEW:**2 Technical test****2.2 Summary of test results**

No deviations from the technical specification(s) were ascertained in the course of the tests
Performed

Final Verdict:
(Only "passed" if all single measurements are "passed")

Passed

Technical responsibility for area of testing:

2005-08-29 EMC & Radio

Lothar Schmidt
(Technical Manager)



Date

Section

Name

Signature

Responsible for test report and project leader:

2005-08-29 EMC & Radio Pete Krebill (EMC Engineer)



Date

Section

Name

Signature

2.2 Test report

TEST REPORT

Test report no.: EMC_958_FCC15.407_2005

FCC Part 15.407 for UNII Devices / CANADA RSS-210

TEST REPORT REFERENCE:

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**MAXIMUM PEAK OUTPUT POWER
(RADIATED)**

§ 15.407 (a)(1)(2)

(Data rate – 54Mbps)

54Mbps is found to be worst-case for peak output power.

EIRP:**Test Results**

TEST CONDITIONS		MAXIMUM PEAK OUTPUT POWER (dBm)		
Frequency (MHz)		5180	5260	5320
T _{nom} (23)°C	V _{nom} (3.3) VDC	20.77	27.15	27.01
Measurement uncertainty		±0.5dBm		

LIMIT**SUBCLAUSE § 15.407 (a)(1)(2)**

Frequency range (GHz)	Conducted Peak Power
5.15 – 5.25	17dBm
5.25 – 5.35	24dBm
If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi	

BAND EDGE COMPLIANCE CETECOM Inc.

§15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average pwr=11.45dbm)

Antenna: V

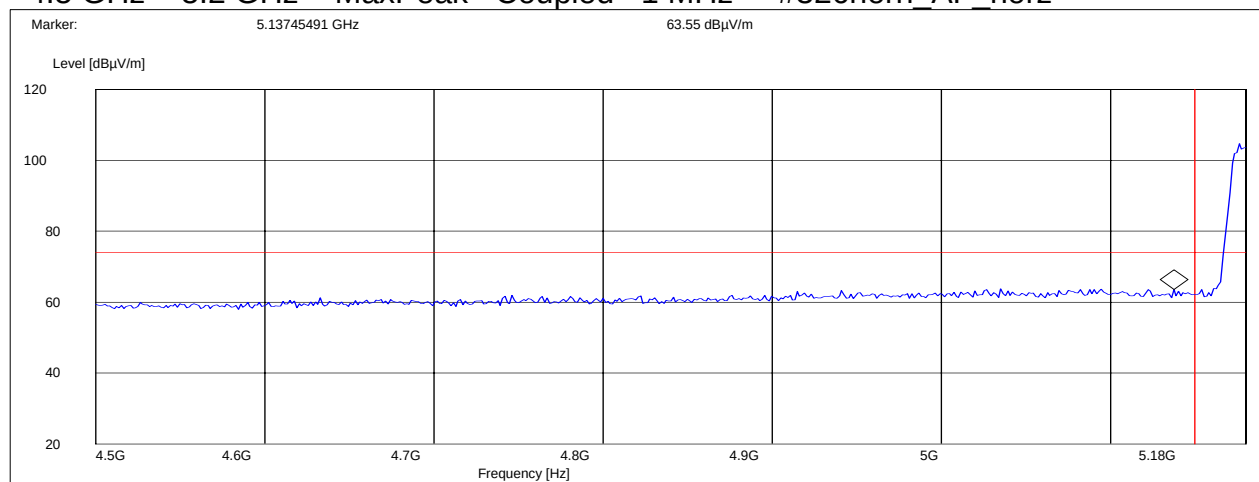
EUT: H

Test Engineer: Neelesh

Comment: BANDEDGE PEAK

SWEEP TABLE: "FCC15.407 A_LBE_PK"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
4.5 GHz	5.2 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_horz



BAND EDGE COMPLIANCE
CETECOM Inc.

§15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average pwr=11.45dbm)

Antenna: V

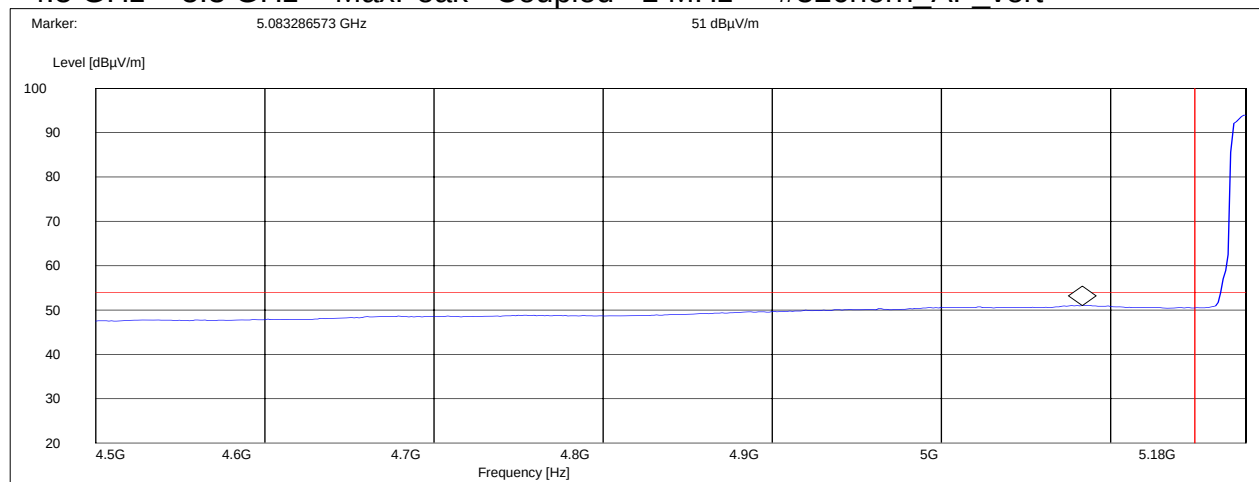
EUT: H

Test Engineer: Neelesh

Comment: BANDEDGE AVG

SWEEP TABLE: "FCC15.407 A_LBE_AVG"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
4.5 GHz	5.3 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



BAND EDGE COMPLIANCE
CETECOM Inc.**§15.407 (b)(1)(2)(4)(6)****411 Dixon Landing Road, Milpitas CA 95035, USA**

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average pwr=16.2dbm)

Antenna: V

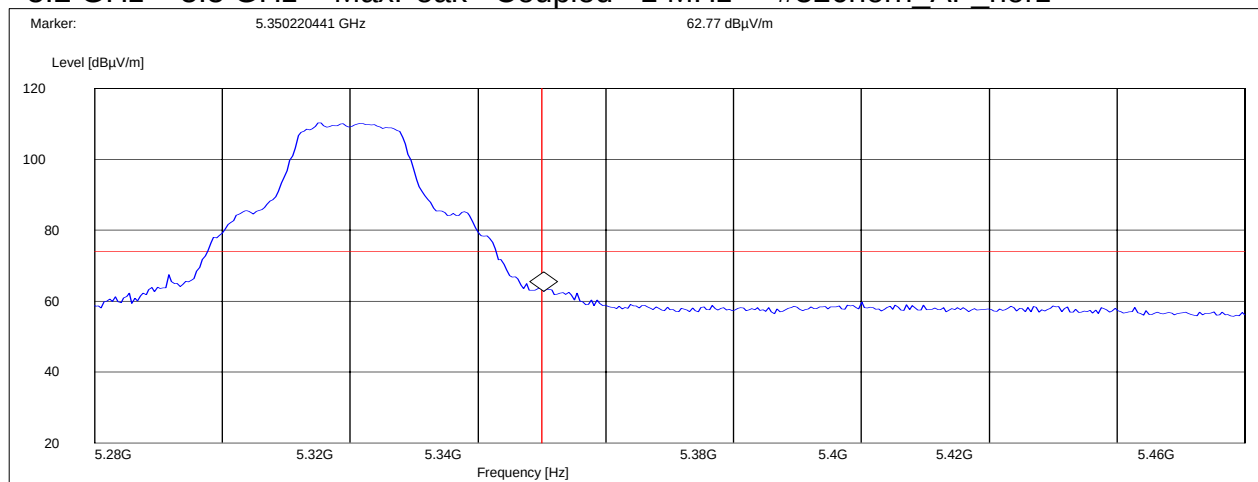
EUT: H

Test Engineer: Neelesh

Comment: BANDEDGE PEAK

SWEEP TABLE: "FCC15.407 A_HBE_PK"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
5.2 GHz	5.5 GHz	MaxPeak	Coupled	1 MHz	#326horn AF_horz



BAND EDGE COMPLIANCE
CETECOM Inc.

§15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average pwr=16.2dbm)

Antenna: V

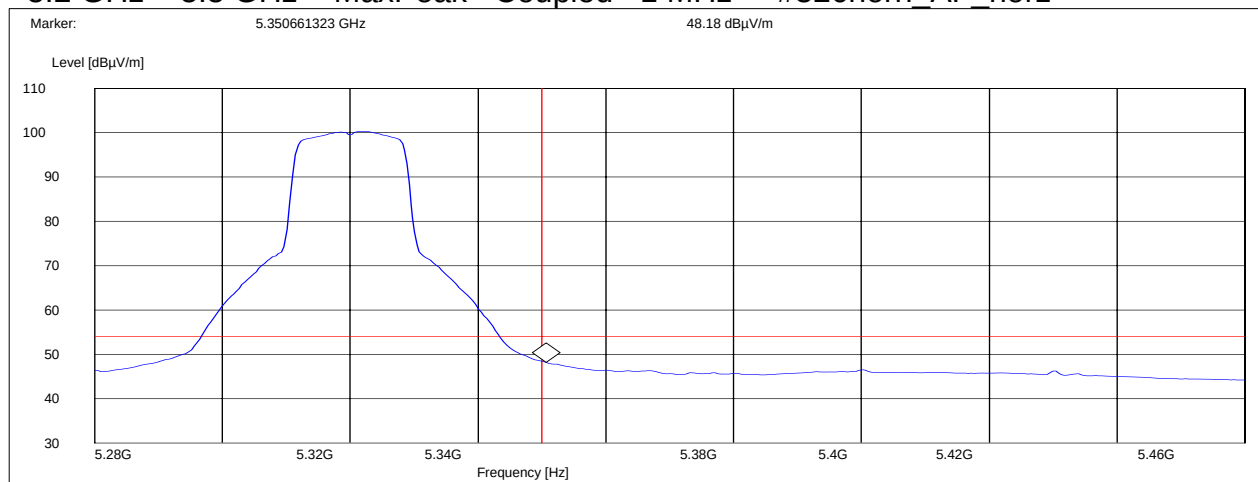
EUT: H

Test Engineer: Neelesh

Comment: BANDEDGE AVG

SWEEP TABLE: "FCC15.407 A_HBE_AVG"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
5.2 GHz	5.5 GHz	MaxPeak	Coupled	1 MHz	#326horn AF_horz



**EMISSION LIMITATIONS
Transmitter (Radiated)****§ 15.407 (b)(1)(2)(4)(6)****Limits****§ 15.209 / § 15.407**

Freq. (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)
0.009-0.490	2400/F (kHz)	
0.490-1.750	24000/F (kHz)	
1.705-30.0	30	29.54
30-88	100	40.00
88-216	150	43.52
216-960	200	46.02
Above 960*	500	53.97
1000-40000**	2013.8	66.08

*) Limit in restricted bands

**) Limit outside restricted bands

NOTE:

1. The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 40 GHz very short cable connections to the antenna was used to minimize the noise level.

2. All measurements are done in peak mode unless specified with the plots.

EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5260MHz A-mode (average power = 16.30dBm)

Antenna: V

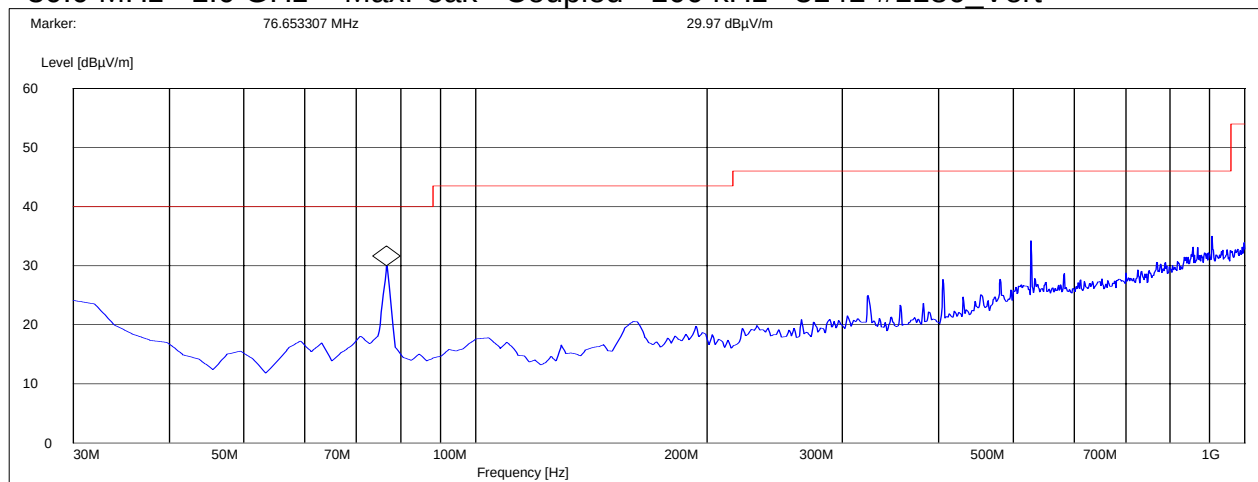
EUT: H

Test Engineer: Mark

Comment: 30MHz-1GHz

SWEEP TABLE: "FCC15.247_30M-1G_Ver"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Vert



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average power = 11.45dBm)

Antenna: V

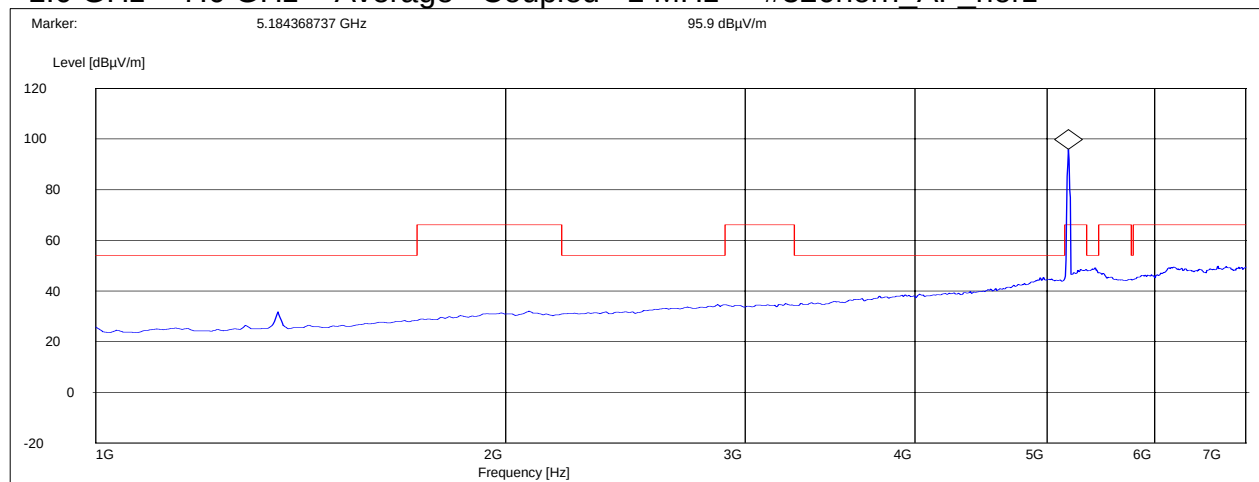
EUT: H

Test Engineer: Mark

Comment: 1GHz-7GHz average

SWEEP TABLE: "FCC 15.407 1-7G_Avg"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	7.0 GHz	Average	Coupled	1 MHz	#326horn AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)

§ 15.247 (c) (1)

CETECOM Inc.

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EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5260MHz A-mode (average power = 16.30dBm)

Antenna: V

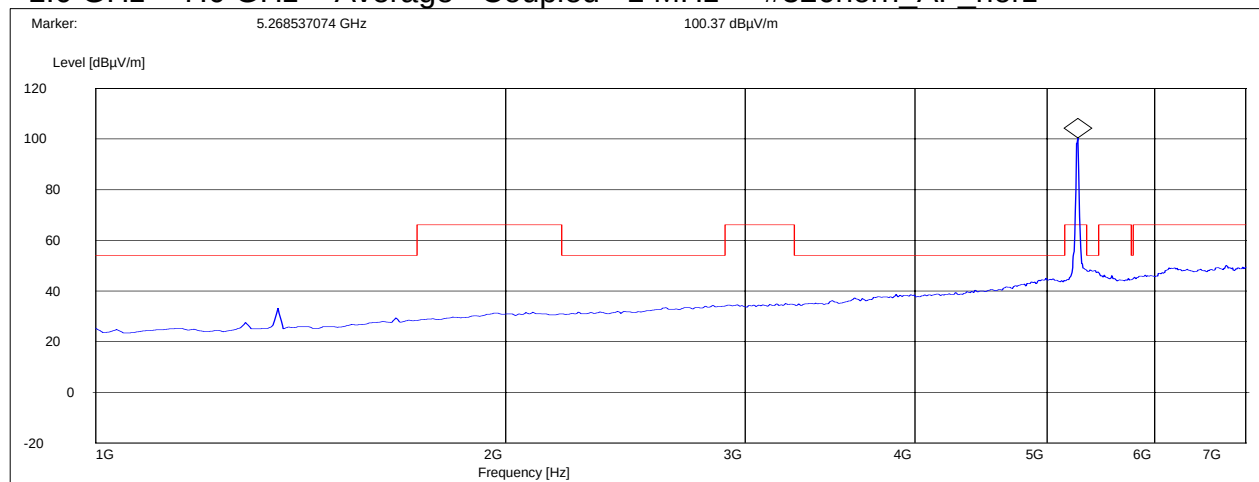
EUT: H

Test Engineer: Mark

Comment: 1GHz-7GHz average

SWEEP TABLE: "FCC 15.407 1-7G_Avg"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	7.0 GHz	Average	Coupled	1 MHz	#326horn AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average power = 16.20dBm)

Antenna: V

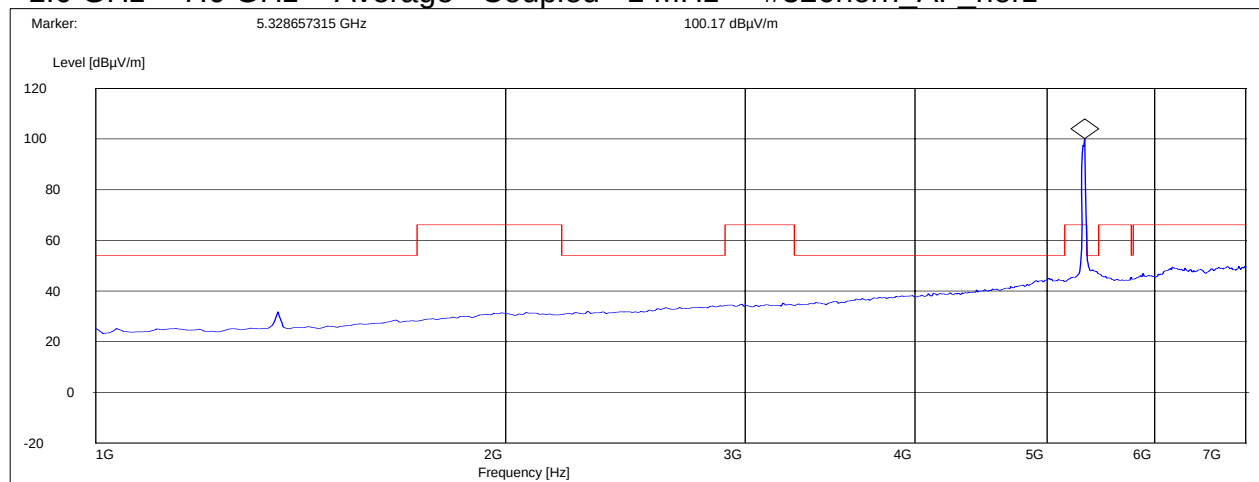
EUT: H

Test Engineer: Mark

Comment: 1GHz-7GHz average

SWEEP TABLE: "FCC 15.407 1-7G_Avg"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	7.0 GHz	Average	Coupled	1 MHz	#326horn AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average power = 11.45dBm)

Antenna: V

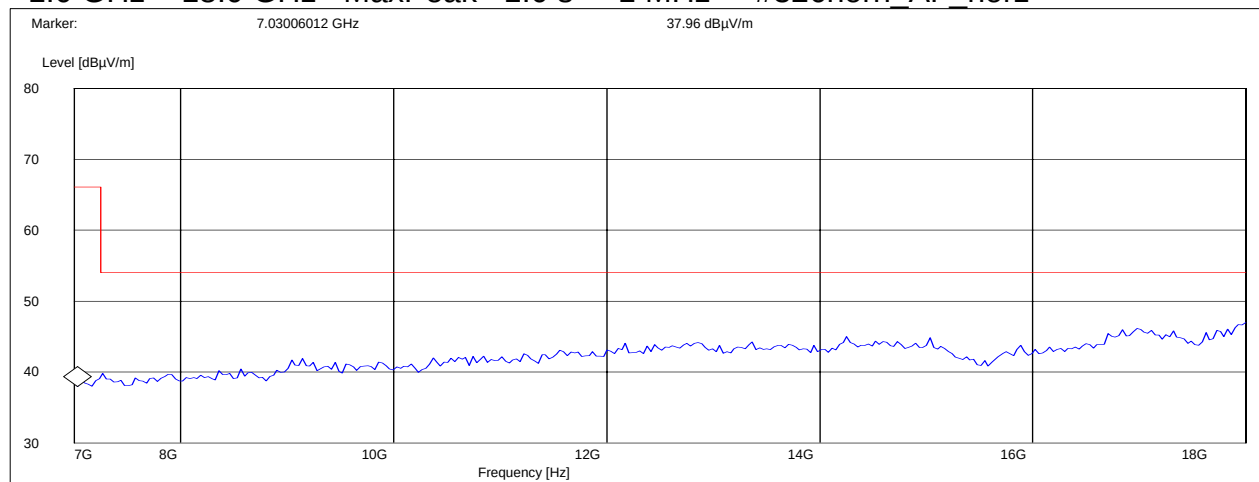
EUT: H

Test Engineer: Mark

Comment: 7GHz-18GHz peak

SWEEP TABLE: "FCC 15.407 7-18G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	18.0 GHz	MaxPeak	1.0 s	1 MHz	#326horn_AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5260MHz A-mode (average power = 16.30dBm)

Antenna: V

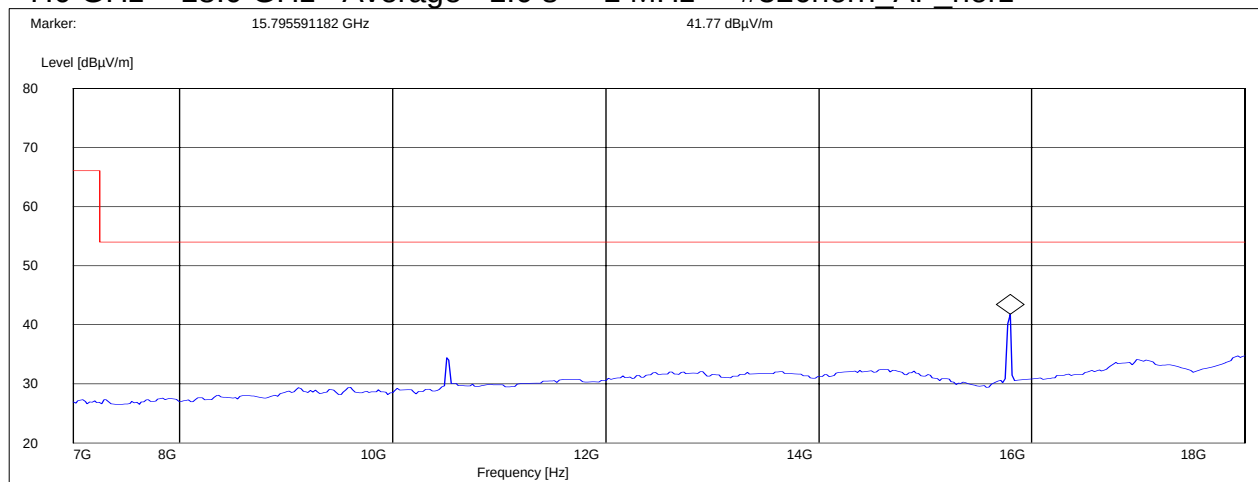
EUT: H

Test Engineer: Mark

Comment: 7GHz-18GHz average

SWEEP TABLE: "FCC 15.407 7-18G_Avg"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
7.0 GHz	18.0 GHz	Average	1.0 s	1 MHz	#326horn_AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average power = 16.20dBm)

Antenna: V

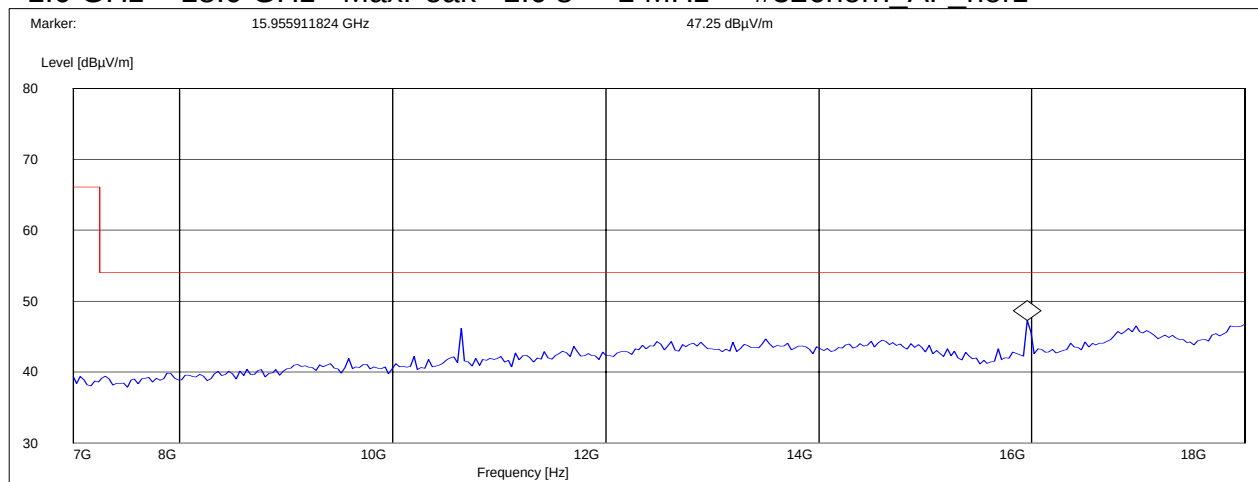
EUT: H

Test Engineer: Mark

Comment: 7GHz-18GHz

SWEEP TABLE: "FCC 15.407 7-18G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	18.0 GHz	MaxPeak	1.0 s	1 MHz	#326horn_AF_horz



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average power = 11.45dBm)

Antenna: V

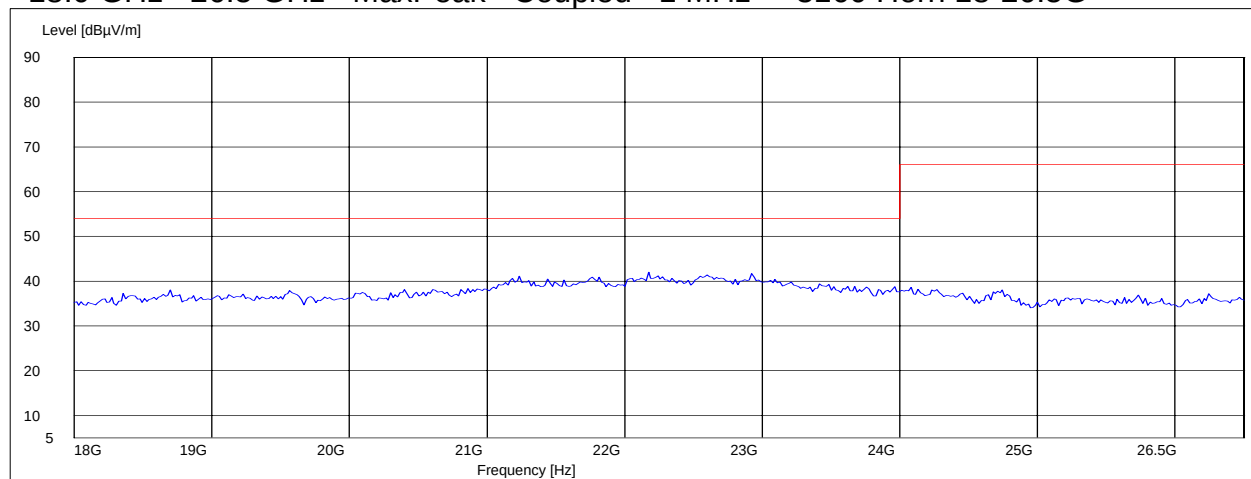
EUT: H

Test Engineer: Mark

Comment: 18GHz-26.5GHz

SWEEP TABLE: "FCC 15.407 18-26.5G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time		Bandw.
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 18-26.5G



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5260MHz A-mode (average power = 16.30dBm)

Antenna: V

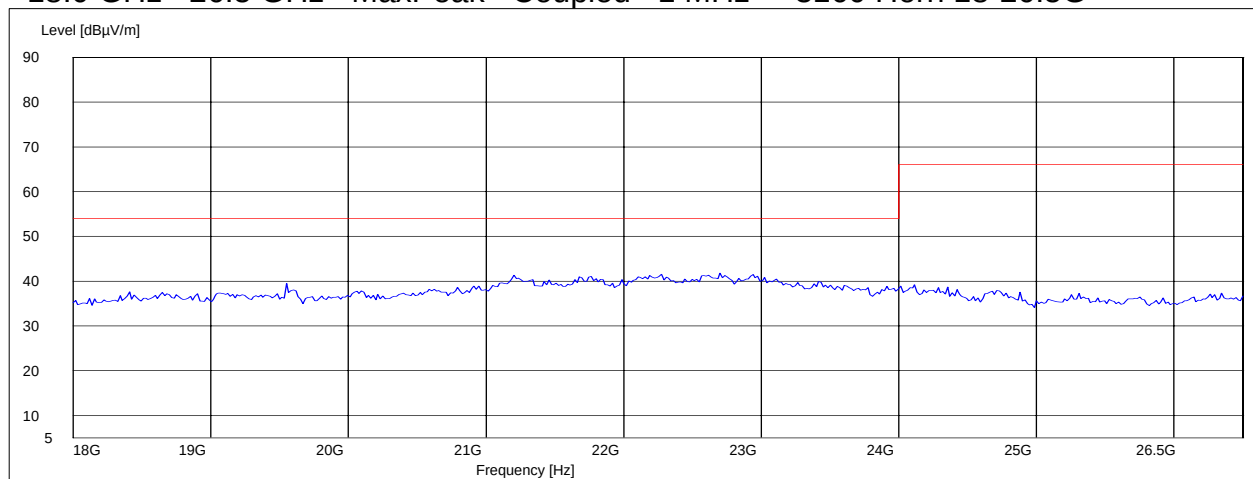
EUT: H

Test Engineer: Mark

Comment: 18GHz -26.5GHz

SWEEP TABLE: "FCC 15.407 18-26.5G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 18-26.5G



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average power = 16.20dBm)

Antenna: V

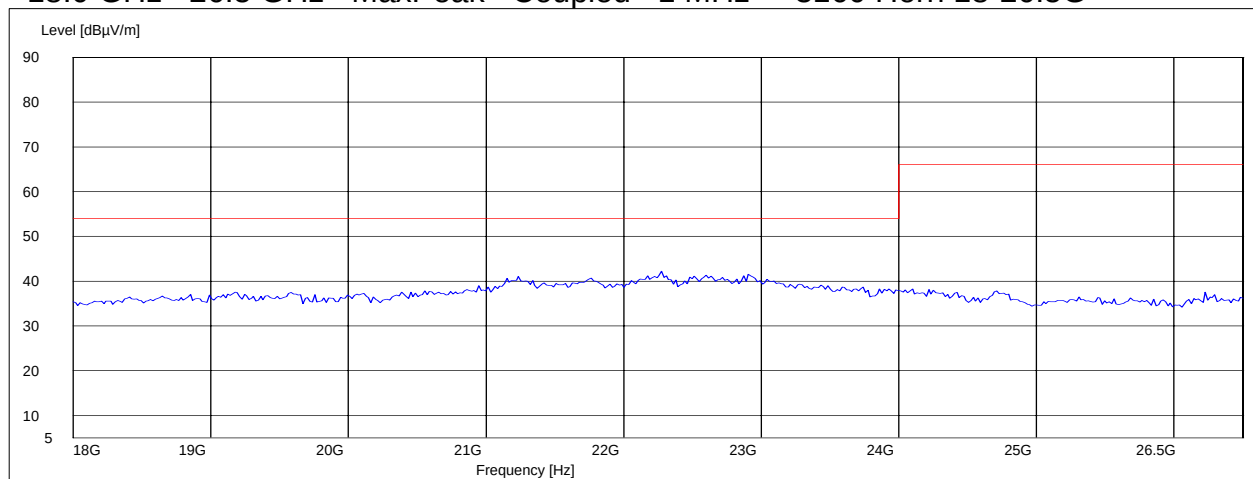
EUT: H

Test Engineer: Mark

Comment: 18GHz-26.5GHz

SWEEP TABLE: "FCC 15.407 18-26.5G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 18-26.5G



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5180MHz A-mode (average power = 11.45dBm)

Antenna: V

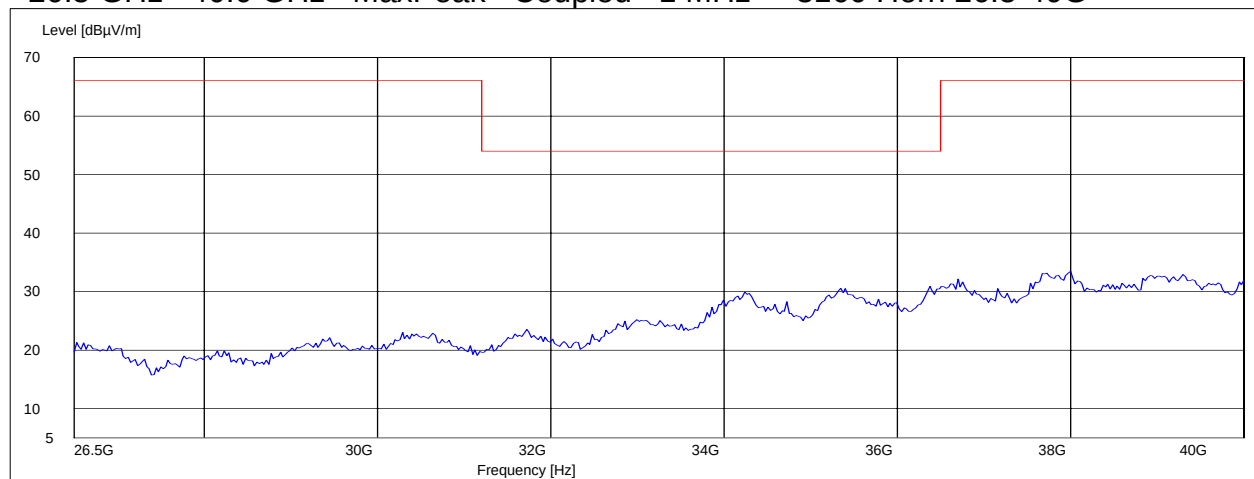
EUT: H

Test Engineer: Mark

Comment: 26.5GHz-40GHz

SWEEP TABLE: "FCC 15.407 26.5-40G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
26.5 GHz	40.0 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 26.5-40G



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5260MHz A-mode (average power = 16.30dBm)

Antenna: V

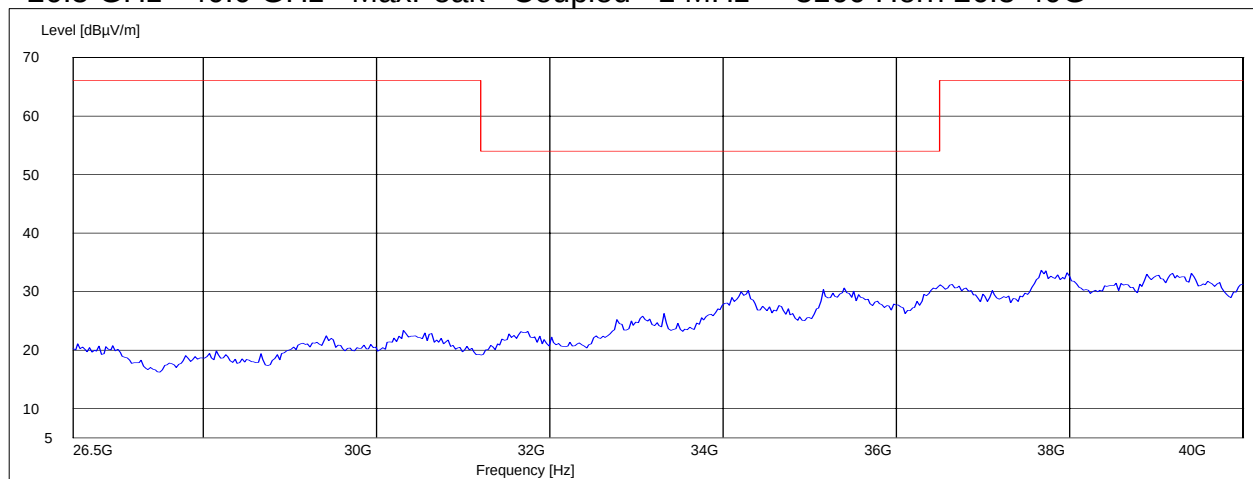
EUT: H

Test Engineer: Mark

Comment: 26.5GHz-40GHz

SWEEP TABLE: "FCC 15.407 26.5-40G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
26.5 GHz	40.0 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 26.5-40G



EMISSION LIMITATIONS - Radiated (Transmitter)
CETECOM Inc.

§ 15.407 (b)(1)(2)(4)(6)

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: TX@5320MHz A-mode (average power = 16.20dBm)

Antenna: V

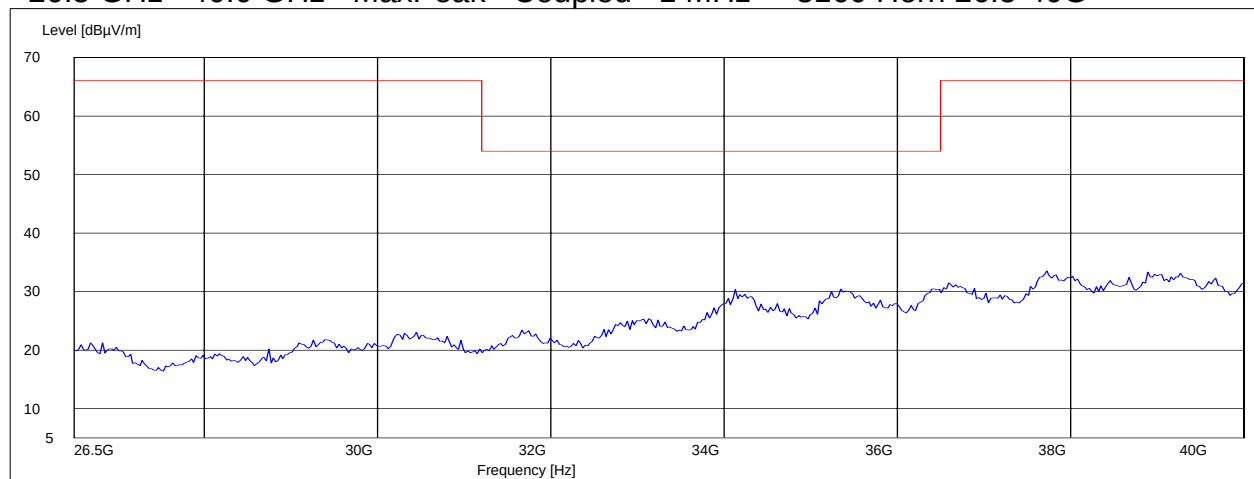
EUT: H

Test Engineer: Mark

Comment: 26.5GHz-40GHz

SWEEP TABLE: "FCC 15.407 26.5-40G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
26.5 GHz	40.0 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 26.5-40G



RECEIVER SPURIOUS RADIATION**§ 15.209****Limits**

Frequency (MHz)	Field strength (µV/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

NOTE:

The radiated emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels. In the range between 3 and 40GHz very short cable connections to the antenna was used to minimize the noise level.

RECEIVER SPURIOUS RADIATION
CETECOM Inc.

§ 15.209

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: RX@5260MHz A-mode

Antenna: H

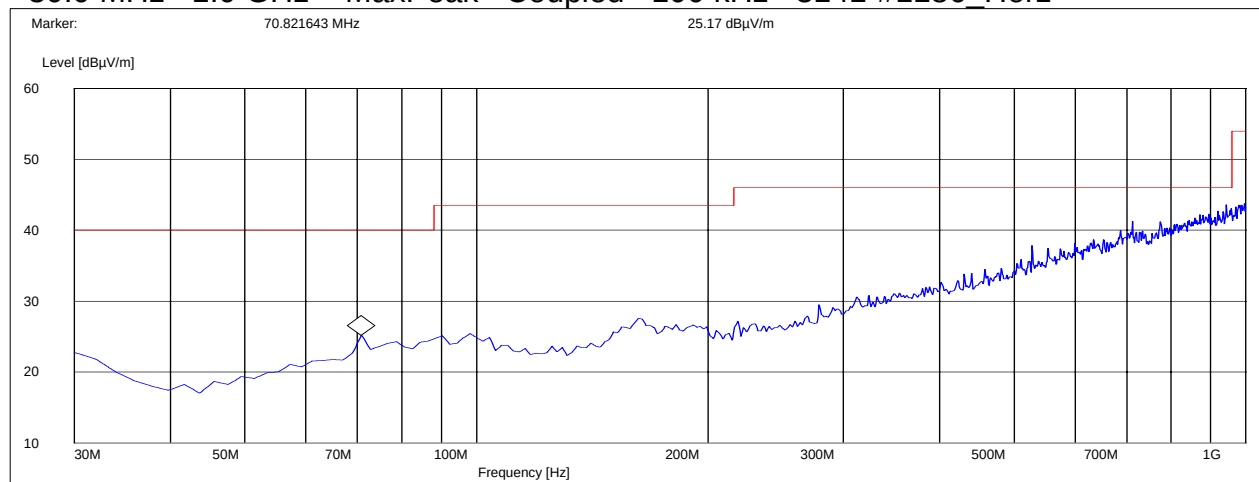
EUT: H

Test Engineer: Mark

Comment: 30MHz-1GHz FCC15.209 Class B (Canada)

SWEEP TABLE: "CANDA RE_30M-1G_Hor"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	3141-#1186_Horz



RECEIVER SPURIOUS RADIATION CETECOM Inc.

§ 15.209

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: RX@5260MHz A-mode

Antenna: V

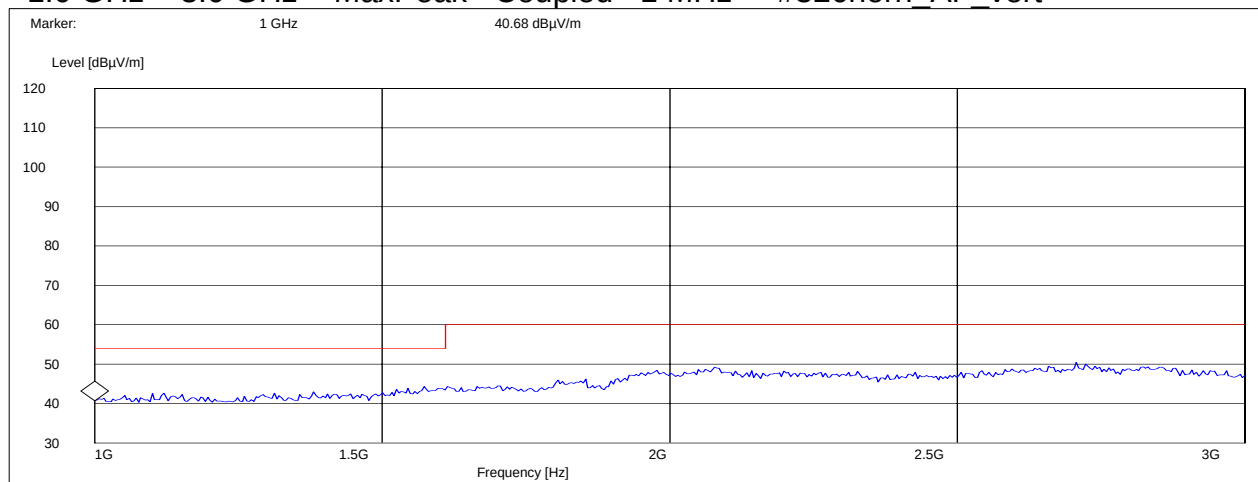
EUT: H

Test Engineer: Mark

Comment: 1GHz-3GHz FCC15.209 Class B (Canada)

SWEEP TABLE: "CANADA RE_1-3G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	3.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



RECEIVER SPURIOUS RADIATION
CETECOM Inc.

§ 15.209

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: RX@5260MHz A-mode

Antenna: V

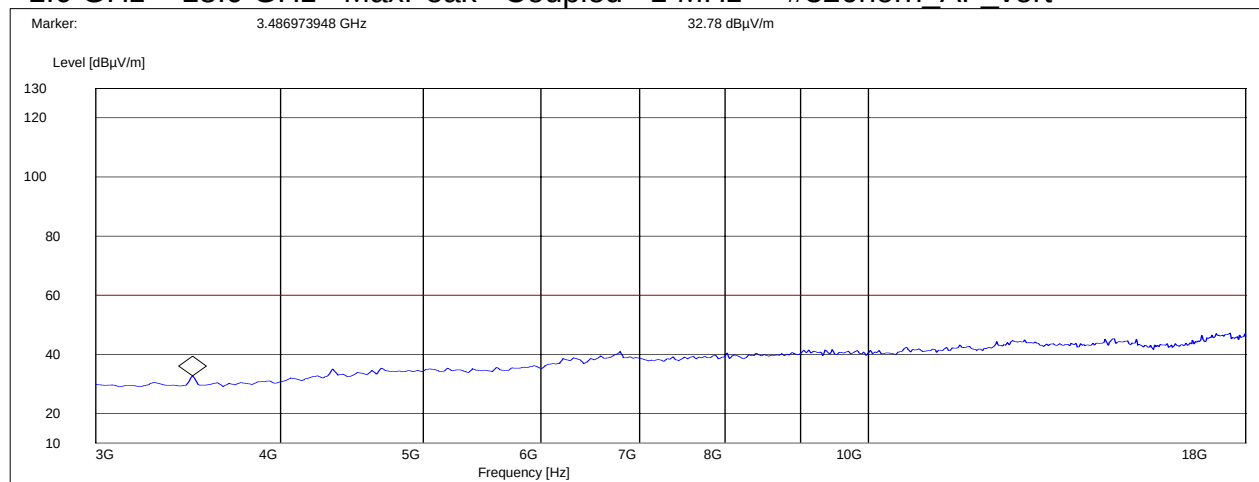
EUT: H

Test Engineer: Mark

Comment: 3GHz-18GHz FCC15.209 Class B (Canada)

SWEEP TABLE: "CANADA RE_3-18G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
1.0 GHz	18.0 GHz	MaxPeak	Coupled	1 MHz	#326horn_AF_vert



RECEIVER SPURIOUS RADIATION
CETECOM Inc.

§ 15.209

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: RX@5260MHz A-mode

Antenna: V

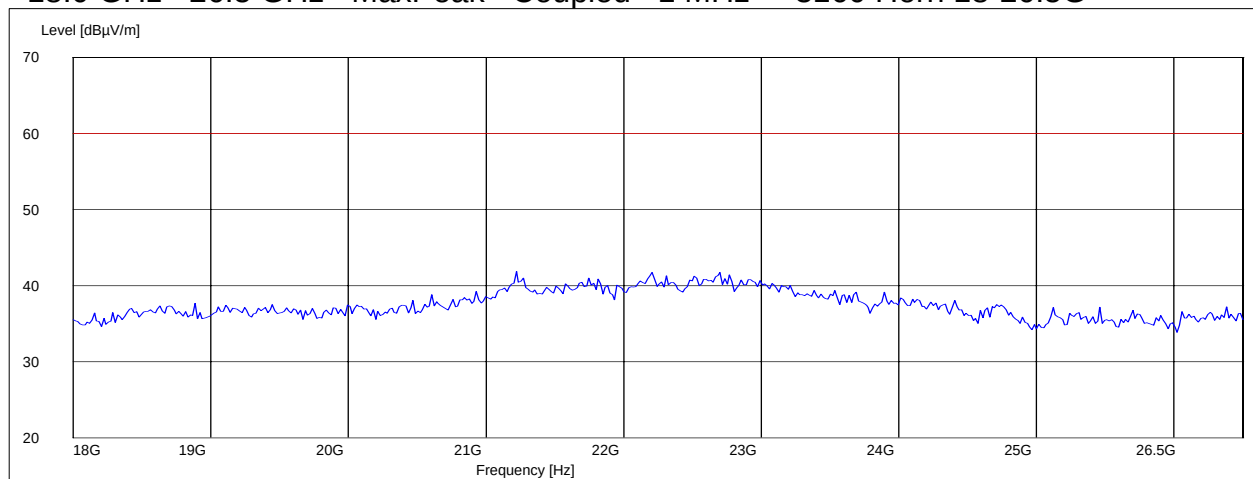
EUT: H

Test Engineer: Mark

Comment: 18GH-26GHz FCC15.209 Class B (Canada)

SWEEP TABLE: "CANADA RE_18-26.5G"

Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
18.0 GHz	26.5 GHz	MaxPeak	Coupled	1 MHz	3160 Horn 18-26.5G



RECEIVER SPURIOUS RADIATION
CETECOM Inc.

§ 15.209

411 Dixon Landing Road, Milpitas CA 95035, USA

EUT / Description: iX104 / tablet PC: 850/900/1800/1900; 802.11a,b,g

Customer: Xplore

Operating Mode: RX@5260MHz A-mode

Antenna: V

EUT: H

Test Engineer: Mark

Comment: 26.5GHz-40GHz FCC15.209 Class B (Canada)

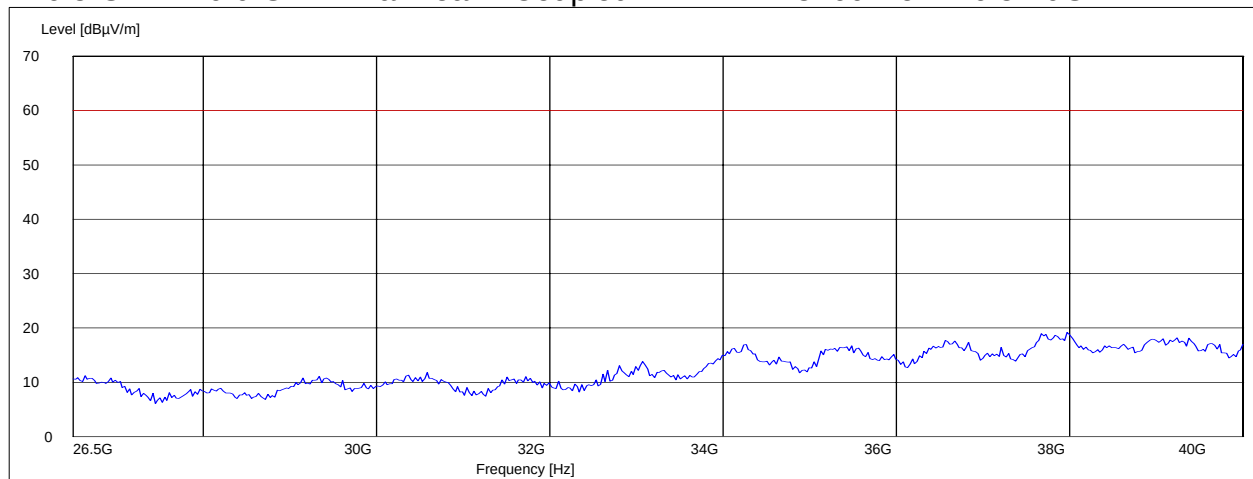
SWEEP TABLE: "CANADA RE_26.5-40G"

Short Description: Bluetooth 18 - 26 GHz

Start Stop Detector Meas. IF Transducer

Frequency Frequency Time Bandw.

26.5 GHz 40.0 GHz MaxPeak Coupled 1 MHz 3160 Horn 26.5-40G



TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010
03	Biconilog Antenna	3141	EMCO	0005-1186
04	Horn Antenna (700M-18GHz)	SAS-200/571	AH Systems	325
05	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240
06	Horn Antenna (26.5-40GHz)	3160-10	EMCO	1156
07	2-3GHz Band reject filter	BRM50701	Microtronics	6
08	Power-Meter	NRVD	Rohde & Schwarz	0857.8008.02
09	Pre-Amplifier	TS-ANA	Rohde & Schwarz	--
10	Pre-Amplifier	JS4-00102600	Miteq	00616

Radiated Testing

ANECHOIC CHAMBER

