

EXHIBIT C



Office of Engineering and Technology

[FCC > FCC E-filing > EAS > Generic Search](#)[FCC Site Map](#)[OET Home Page](#)**Filing Options**

[Grantee Registration](#)
[Modify Grantee Information](#)
[Form 731](#)
[Complete Unfinished Form 731](#)
[Add Attachments](#)
[Submit Correspondence](#)
[Register New Test Firm](#)
[Renew Test Firm/Add Exhibits](#)
[Test Firm Accrediting Body Login](#)
[Return to 159 Form](#)

Reports

[Pending Application Status](#)
[Generic Search](#)
[Grantee Search](#)
[Pending Grantee Search](#)
[TCB Search](#)
[Test Firms](#)
[Test Firm Accrediting Bodies](#)
[Equipment Class/Rule Part List](#)

Miscellaneous

[Get FRN](#)
[Knowledge Database](#)
[User's Manual](#)
[Get Software](#)
[FAQ](#)

Notice for users operating Microsoft Internet Explorer 5/Netscape Navigator 7.0 and later browser versions: The search results may be sorted by clicking on the desired column header

14 Applications Were Found That Match the Search Criteria:
Applicant Name: axxcelera

Displaying records 1 through 14 of 14.

View Form	Display Exhibits	Display Grant	Display Correspondence	Applicant Name	Address	City	State	Country	Zip Code	FCC ID	Application Purpose	Grant Date	Lower Frequency in MHz	Upper Frequency in MHz
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU01	Original Equipment	07/14/2004	5270.0	5330.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-AP01	Original Equipment	09/01/1999	5270.0	5330.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU02	Original Equipment	09/10/2003	5270.0	5330.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-AP02	Original Equipment	09/10/2003	5270.0	5330.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU01	Class II Permissive Change	07/19/2004	5270.0	5330.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU01	Original Equipment	07/14/2004	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-AP01	Original Equipment	09/01/1999	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJB-EX-F058	Original Equipment	05/25/2001	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJB-EX-F058	Class II Permissive Change	07/04/2001	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU02	Original Equipment	09/10/2003	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-AP02	Original Equipment	09/10/2003	5745.0	5835.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-AP02	Original Equipment	09/10/2003	5745.0	5805.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU02	Original Equipment	09/12/2003	5745.0	5835.0
	Detail Summary			Axxcelera Broadband Wireless, Inc.	Corporate Headquarters 111 Castilian Drive	Santa Barbara	CA	United States	93117	QJBAB-ACCESS-SU01	Class II Permissive Change	07/19/2004	5745.0	5805.0

[Perform Generic Search Again](#)Please send any comments or suggestions for this site to [OET Systems Support](#)

Federal Communications Commission
 445 12th Street, SW
 Washington, DC 20554
[More FCC Contact Information](#)

Phone: 888-CALL-FCC (225-5322)
 TTY: 888-TELL-FCC (835-5322)
 Fax: 202-418-0232
 E-mail: foinfo@fcc.gov

[Privacy Policy](#)
[Web Policies & Notices](#)
[Customer Service Standards](#)
[Freedom of Information Act](#)

TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the
Federal Communications Commission****By:****RFI Global Services Ltd
Ewhurst Park Ramsdell
Basingstoke, Hampshire, RG26 5RQ
United Kingdom****Date of Grant: 09/10/2003****Application Dated: 09/10/2003****Axxcelera Broadband Wireless, Inc.
Corporate Headquarters
111 Castilian Drive
Santa Barbara, CA 93117****Attention: Jamal Hamdani , President & CEO****NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: OJBAB-ACCESS-SU02**Name of Grantee: Axxcelera Broadband Wireless, Inc.****Equipment Class: Unlicensed National Information Infrastructure TX****Notes: Fixed Broadband Wireless Access Network**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15E	5270.0 - 5330.0	0.398		
	15E	5745.0 - 5805.0	1.222		

The output power listed is EIRP. The Antenna(s) used for this transmitter must be fixed-mounted on outdoor permanent structures with a separation distance of at least 6 meters from all persons during normal operation. The peak conducted power at each antenna terminal must not exceed .019 W and the peak radiated output power must not exceed 1.222 W EIRP. Users and installers must be provided with appropriate antenna installation instructions and transmitter operating conditions, including antenna co-location requirements of §1.1307(b)(3), for satisfying RF exposure requirements.

TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the
Federal Communications Commission****By:****RFI Global Services Ltd
Ewhurst Park Ramsdell
Basingstoke, Hampshire, RG26 5RQ
United Kingdom****Date of Grant: 09/10/2003****Application Dated: 09/10/2003****Axxcelera Broadband Wireless, Inc.
Corporate Headquarters
111 Castilian Drive
Santa Barbara, CA 93117****Attention: Jamal Hamdani , President & CEO****NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is
VALID ONLY for the equipment identified hereon for use under the Commission's
Rules and Regulations listed below.

FCC IDENTIFIER: OJBAB-ACCESS-SU02**Name of Grantee: Axxcelera Broadband Wireless, Inc.****Equipment Class: Unlicensed National Information Infrastructure TX****Notes: Fixed Broadband Wireless Access Network**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15E	5270.0 - 5330.0	0.398		
	15E	5745.0 - 5805.0	1.222		

The output power listed is EIRP. The Antenna(s) used for this transmitter must be
fixed-mounted on outdoor permanent structures with a separation distance of at least 6
meters from all persons during normal operation. The peak conducted power at each
antenna terminal must not exceed .019 W and the peak radiated output power must not
exceed 1.222 W EIRP. Users and installers must be provided with appropriate antenna
installation instructions and transmitter operating conditions, including antenna co-location
requirements of §1.1307(b)(3), for satisfying RF exposure requirements.

TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the
Federal Communications Commission****By:****RFI Global Services Ltd
Ewhurst Park Ramsdell
Basingstoke, Hampshire, RG26 5RQ
United Kingdom****Date of Grant: 09/12/2003****Application Dated: 09/12/2003****Axxcelera Broadband Wireless, Inc.
Corporate Headquarters
111 Castilian Drive
Santa Barbara, CA 93117****Attention: Jamal Hamdani , President & CEO****NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is
VALID ONLY for the equipment identified hereon for use under the Commission's
Rules and Regulations listed below.

FCC IDENTIFIER: OJBAB-ACCESS-SU02**Name of Grantee:** Axxcelera Broadband Wireless, Inc.**Equipment Class:** Digital Transmission System**Notes:** Fixed Broadband Wireless Access Network

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	5745.0 - 5835.0	4.466		

The output power listed is EIRP. The Antenna(s) used for this transmitter must be
fixed-mounted on outdoor permanent structures with a separation distance of at least 6
meters from all persons during normal operation. The peak conducted power at each
antenna terminal must not exceed .071 W and the peak radiated output power must not
exceed 4.466 W EIRP. Users and installers must be provided with appropriate antenna
installation instructions and transmitter operating conditions, including antenna co-location
requirements of §1.1307(b)(3), for satisfying RF exposure requirements

EXHIBIT D



Office of Engineering and Technology

[OET Home Page](#)
[FCC > FCC E-filing > ELS > Generic Search](#)
[FCC Site Map](#)

Filing Options

[Form 405](#)
[Form 442](#)
[Form 702](#)
[Form 703](#)
[Special Temporary Authority](#)
[Add Attachments](#)
[Reply to Correspondence](#)
[Amend/Complete Application](#)
[Return to 159 Form](#)

Reports

[Application Status](#)
[Call Sign Search](#)
[Generic Search](#)
[Point Radius Search](#)

Miscellaneous

[Get FRN](#)
[User's Manual](#)
[Get Software](#)
[FAQ](#)

Notice for users operating Microsoft Internet Explorer 5/Netscape Navigator 7.0 and later browser versions: The search results may be sorted by clicking on the desired column header

71 Applications Were Found That Match the Search Criteria:
 Lower Frequency: 5470 Upper Frequency: 5725 Mhz

Displaying records 1 through 71 of 71.

View Form	View Exhibits	View Notes	View Correspondence	View Grant	File Number	Call Sign	Applicant Name	Receipt Date	Status	Status Date
Initial	N/A		N/A		0072-EX-RR-2004	WC2XWQ	Alien Technology Corporation	05/17/2004	Granted	05/28/2004
Current					0143-EX-PL-2002	WB2XBW	Andrew Corporation	06/28/2002	Granted	08/09/2002
Initial					0117-EX-PL-2003	WD2XEC	Antenna Specialists	06/09/2003	Granted	03/30/2005
Current					0107-EX-PL-2004	WD2XJW	BAE SYSTEMS Information and Electronic Systems Integration Inc.	05/28/2004	Granted	06/29/2005
Initial					0154-EX-PL-2005	WD2XSG	BAE SYSTEMS Information and Electronic Systems Integration Inc.	05/18/2005	Pending	05/18/2005
Current					0298-EX-PL-2005	WD2XVL	BAE SYSTEMS Information and Electronic Systems Integration Inc.	10/20/2005	Pending	10/20/2005
Initial		N/A	N/A	N/A	0673-EX-ST-2005	WC9XJD	BAE Systems Information and Electronic Systems Integration Inc.	11/14/2005	Granted	12/22/2005
Current					0007-EX-RR-2005	WC2XMU	BARON SERVICES, INC.	01/25/2005	Granted	03/07/2005
Initial	N/A		N/A		0291-EX-PL-2004	WD2XNX	BOEING COMPANY, THE	12/02/2004	Granted	12/20/2005
Current			N/A		0668-EX-ST-2005	WC9XBC	BOEING COMPANY, THE	11/11/2005	Granted	11/25/2005
Initial	N/A	N/A	N/A		0025-EX-PL-2005	WD2XOY	BVWireless LLC	01/19/2005	Granted	03/09/2005
Current			N/A		0455-EX-ST-2005	WC9XGF	Boeing Company, The	07/28/2005	Granted	10/19/2005
Not Available		N/A	N/A		0691-EX-ST-2005	WC9XBQ	Boeing Company, The	11/18/2005	Granted	12/12/2005
Initial	N/A	N/A	N/A		0103-EX-ST-2006	WC9XGF	Boeing Company, The	02/23/2006	Granted	03/02/2006
Current			N/A		0322-EX-PL-2005	WD2XVG	Cascade Networks, Inc.	11/04/2005	Granted	01/06/2006
Initial	N/A		N/A		0136-EX-RR-2005	KE2XKT	DIELECTRIC COMMUNICATIONS	09/01/2005	Granted	09/14/2005
Current				N/A	0107-EX-ML-2005	KE2XKT	Dielectric Communications	09/19/2005	Pending	09/19/2005
Initial					0057-EX-RR-2004	WC2XLU	GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.	04/13/2004	Granted	05/03/2004
Current	N/A				0058-EX-RR-2004	WC2XLV	GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.	04/13/2004	Granted	05/03/2004
Initial	N/A		N/A		0092-EX-RR-2004	WC2XLW	GENERAL ATOMICS AERONAUTICAL SYSTEMS, INC.	06/15/2004	Granted	07/06/2004
Current					0098-EX-RR-2004	WC2XYO	General Atomics Aeronautical Systems, Inc.	07/06/2004	Granted	08/02/2004
Initial	N/A		N/A		0060-EX-RR-2005	WD2XDD	General Atomics Aeronautical Systems, Inc.	04/11/2005	Granted	04/22/2005
Current	N/A		N/A		0069-EX-RR-2005	WD2XCW	General Atomics Aeronautical Systems, Inc.	05/05/2005	Granted	05/19/2005
Initial	N/A		N/A							

View Form	View Exhibits	View Notes	View Correspondence	View Grant	File Number	Call Sign	Applicant Name	Receipt Date	Status	Status Date
Initial Current	N/A		N/A		0070-EX-RR-2005	WD2XCX	General Atomics Aeronautical Systems, Inc.	05/05/2005	Granted	05/19/2005
Initial Current	N/A	N/A			0607-EX-ST-2005	WC2XLR	General Atomics Aeronautical Systems, Inc.	10/12/2005	Granted	12/01/2005
Initial Current	N/A				0151-EX-RR-2005	WC2XLR	General Atomics Aeronautical Systems, Inc.	10/12/2005	Granted	01/11/2006
Initial Current	N/A				0152-EX-RR-2005	WC2XLO	General Atomics Aeronautical Systems, Inc.	10/13/2005	Granted	01/09/2006
Initial Current		N/A	N/A	N/A	0013-EX-ML-2006	WC2XLR	General Atomics Aeronautical Systems, Inc.	01/20/2006	Pending	01/20/2006
Initial Current			N/A	N/A	0111-EX-RR-2006	WC2XLU	General Atomics Aeronautical Systems, Inc.	05/02/2006	Pending	05/02/2006
Initial Current			N/A	N/A	0112-EX-RR-2006	WC2XLV	General Atomics Aeronautical Systems, Inc.	05/02/2006	Pending	05/02/2006
Initial Current			N/A		0189-EX-RR-2005	KA2XAJ	Georgia Tech Research Institute	12/01/2005	Granted	12/01/2005
Initial Current		N/A	N/A	N/A	0120-EX-PL-2006	N/A	Honeywell International Inc.	03/10/2006	Pending	03/10/2006
Initial Current			N/A		0100-EX-RR-2004	KA2XNR	LOCKHEED MARTIN CORPORATION	07/12/2004	Granted	07/19/2004
Initial Current			N/A		0101-EX-RR-2004	KB2XOT	LOCKHEED MARTIN CORPORATION	07/12/2004	Granted	07/19/2004
Initial Current	N/A		N/A		0131-EX-RR-2004	KM2XAE	LOCKHEED MARTIN CORPORATION	09/21/2004	Granted	10/05/2004
Initial Current			N/A		0164-EX-RR-2004	WC2XOE	LOCKHEED MARTIN CORPORATION	11/30/2004	Granted	12/01/2004
Initial Current	N/A		N/A		0105-EX-RR-2002	WB2XIH	Lucent Technologies	06/25/2002	Granted	10/22/2003
Initial Current					0126-EX-RR-2005	WB2XCJ	MOTOROLA, INC.	08/09/2005	Granted	11/30/2005
Initial Current					0201-EX-RR-2005	WC2XUE	MeshNetworks, Inc.	12/19/2005	Granted	04/17/2006
Initial Current					0206-EX-PL-2005	WD2XTD	NB Associates	07/22/2005	Granted	02/27/2006
Initial Current	N/A		N/A		0034-EX-RR-2004	KI2XAH	NORTEL	03/04/2004	Granted	03/08/2004
Initial Current			N/A	N/A	0040-EX-ML-2006	KI2XAH	NORTEL	03/29/2006	Pending	03/29/2006
Initial Current		N/A	N/A	N/A	0128-EX-PL-2006	N/A	Network Infrastructure Corp	03/16/2006	Pending	03/16/2006
Initial Current			N/A		0154-EX-PL-2001	WC2XSH	Nokia Wireless Routers, Inc.	06/26/2001	Granted	08/21/2001
Initial Current					0053-EX-RR-2003	KA2XGP	Northrop Grumman Systems Corporation	03/06/2003	Granted	03/23/2006
Initial Current	N/A	N/A	N/A		0560-EX-ST-2005	WC9XAN	Proxim, Inc.	10/13/2005	Granted	12/13/2005
Initial Current	N/A		N/A		0028-EX-RR-2004	WA2XRE	RADTEC ENGINEERING, INC.	02/09/2004	Granted	09/21/2005
Initial Current	N/A		N/A	N/A	0033-EX-RR-2006	WA2XRE	RADTEC ENGINEERING, INC.	02/14/2006	Pending	02/14/2006
Initial Current			N/A		0171-EX-RR-2000	WA2XVC	RAYTHEON COMPANY	11/06/2000	Granted	11/06/2002
Initial Current	N/A		N/A		0053-EX-ML-2005	KI2XGC	RAYTHEON COMPANY	04/06/2005	Granted	05/16/2005
Initial Current	N/A		N/A		0155-EX-RR-2005	KA2XAG	RAYTHEON COMPANY	10/19/2005	Granted	12/05/2005
Initial Current	N/A	N/A			0650-EX-ST-2005	WA9XDC	RAYTHEON Electronics Systems	11/03/2005	Granted	12/16/2005
Initial Current		N/A		N/A	0195-EX-PL-2005	WD2XVM	Radio Waves Inc.	07/07/2005	Pending	07/07/2005
Initial Current	N/A	N/A	N/A		0029-EX-ST-2006	WB9XQU	Raytheon Aircraft Company	01/12/2006	Granted	02/02/2006
Initial Current			N/A		0070-EX-ML-2003	WD2XBD	Raytheon Company	11/13/2003	Granted	03/01/2004
Initial Current					0082-EX-PL-2001	WC2XPX	TDK R&D Corporation	04/05/2001	Granted	04/12/2001
Initial Current					0012-EX-PL-2003	WD2XCB	THE BOEING COMPANY	01/10/2003	Granted	03/25/2003

View Form	View Exhibits	View Notes	View Correspondence	View Grant	File Number	Call Sign	Applicant Name	Receipt Date	Status	Status Date
Initial					0272-EX-PL-2000	WC2XND	The Boeing Company	12/05/2000	Granted	12/13/2002
Current					0065-EX-PL-2002	WC2XVZ	The Boeing Company	04/08/2002	Granted	04/30/2004
Initial					0110-EX-RR-2006	WC2XVZ	The Boeing Company	05/02/2006	Pending	05/02/2006
Current	N/A		N/A	N/A	0079-EX-ST-2006	WC9XHP	Time Domain Corporation	02/14/2006	Granted	03/30/2006
Initial					0362-EX-PL-2005	WD2XVY	TowerStream Corp.	12/19/2005	Granted	04/17/2006
Current					0367-EX-PL-2005	WD2XVZ	TowerStream Corp.	12/19/2005	Granted	04/17/2006
Initial					0368-EX-PL-2005	WD2XWA	TowerStream Corp.	12/19/2005	Granted	04/17/2006
Current					0385-EX-PL-2005	WD2XWB	TowerStream Corp.	01/04/2006	Granted	04/17/2006
Initial					0390-EX-PL-2005	WD2XWC	TowerStream Corp.	01/04/2006	Granted	04/17/2006
Current					0039-EX-ML-2002	WA2XQQ	US SEA LAUNCH	07/17/2002	Granted	07/18/2002
Initial					0150-EX-RR-2005	WD2XQE	Ubisense Limited	10/11/2005	Granted	10/12/2005
Current	N/A		N/A		0046-EX-ST-2006	WA9XFX	Virginia Tech	01/23/2006	Granted	01/27/2006
Initial					0060-EX-PL-2001	WC2XOS	WEBCV NETWORKS (Microsoft)	03/05/2001	Granted	03/13/2001
Current					0212-EX-PL-2001	WC2XSQ	Weather Detection Systems, Inc.	09/24/2001	Granted	12/07/2001

[Perform Generic Search Again](#)

Please send any comments or suggestions for this site to [ELB Systems and Support](#)

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 888-CALL-FCC (225-5322)
TTY: 888-TELL-FCC (835-5322)
Fax: 202-418-0232
E-mail: fccinfo@fcc.gov

- [Privacy Policy](#)
- [Web Policies & Notices](#)
- [Customer Service Standards](#)
- [Freedom of Information Act](#)

EXHIBIT E



Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

License Search

Search Results

[HELP](#)
[New Search](#)
[Refine Search](#)
[Printable Page](#)
[Query Download](#)
[Map License](#)

Specified Search

State = **Puerto Rico**Status = **Active**Frequency Upper Band >= **5000**Frequency Assigned <= **5999**Matches **1- 51** (of **51**)
 = Pending Application(s)
 = Termination Pending

Page 1

	Call Sign	Licensee Name	FRN	Radio Service	Status	Expiration Date
1	WHB505	CCPR SERVICES, INC.	0003473709	CF	Active	02/01/2011
2	WHI27	PUERTO RICO ELECTRIC POWER AUTHORITY	0001728401	MG	Active	12/30/2008
3	WHO882	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
4	WLC430	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
5	WLM508	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
6	WLW688	CCPR Services, Inc.	0003473709	CF	Active	02/01/2011
7	WMK287	CCPR SERVICES, INC.	0003473709	CF	Active	02/01/2011
8	WMK677	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
9	WMK681	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
10	WMK685	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
11	WML362	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
12	WMN412	CCPR SERVICES, INC.	0003473709	CF	Active	02/01/2011
13	WMR272	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
14	WMT290	CCPR SERVICES INC	0003473709	CF	Active	02/01/2011

15	<u>WPJF794</u>	SAN JUAN CELLULAR TELEPHONE COMPANY	0003578069	CF	Active	02/01/2011
						
16	<u>WPNG256</u>	EVERTEC, INC.	0010915924	MG	Active	11/18/2012
17	<u>WPNN780</u>	CROWN CASTLE INTERNATIONAL CORP. DE PUERTO RICO	0001637859	CF	Active	06/16/2008
						
18	<u>WPOM752</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	02/01/2010
19	<u>WPOR520</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	02/01/2011
						
20	<u>WPOR597</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	02/01/2009
21	<u>WPOS366</u>	BROADCAST MEDIA SATELLITE INC	0001727106	CF	Active	02/24/2009
22	<u>WPOS368</u>	BROADCAST MEDIA SATELLITE INC	0001727106	CF	Active	02/24/2009
23	<u>WPQW962</u>	NewComm Wireless Services, Inc.	0001726314	CF	Active	10/30/2010
24	<u>WPRF962</u>	Televicentro of Puerto Rico, LLC	0004343323	RS	Active	09/06/2015
25	<u>WPSE839</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	03/30/2011
26	<u>WPSF926</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	04/11/2011
27	<u>WPSI637</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	05/10/2011
28	<u>WPSL685</u>	SprintCom, Inc. (Puerto Rico)	0005598107	CF	Active	06/12/2011
29	<u>WPSN599</u>	SprintCom, Inc. (Puerto Rico)	0005598107	CF	Active	06/28/2011
30	<u>WPSP380</u>	WLII/WSUR License Partnership, G. P.	0013778105	RS	Active	07/02/2011
31	<u>WPSP507</u>	SprintCom, Inc. (Puerto Rico)	0005598107	CF	Active	07/03/2011
						
32	<u>WPSQ534</u>	Centennial Puerto Rico License Corp.	0003572864	CF	Active	07/11/2011
33	<u>WPTD306</u>	SprintCom, Inc. (Puerto Rico)	0005598107	CF	Active	09/04/2011
34	<u>WPUC371</u>	Crown Castle International Corp. De Puerto Rico	0001637859	CF	Active	02/01/2012
35	<u>WPUC378</u>	Crown Castle International Corp. De Puerto Rico	0001637859	CF	Active	02/01/2012
36	<u>WQAC264</u>	CCPR SERVICES, INC.	0003473709	CF	Active	05/03/2014
						
37	<u>WQCU659</u>	PUERTO RICO, COMMONWEALTH OF	0005897830	MW	Active	05/31/2015
38	<u>WQCU660</u>	PUERTO RICO, COMMONWEALTH OF	0005897830	MW	Active	05/31/2015
39	<u>WQEI451</u>	ORIZON WIRELESS CORPORATION	0014015945	CF	Active	02/02/2016
40	<u>WQEP564</u>	Telemundo of Puerto Rico	0003727880	RS	Active	09/13/2006
41	<u>WQEQ831</u>	NEPTUNO MEDIA	0012841458	CF	Active	03/28/2016
42	<u>WQES973</u>	Telemundo of Puerto Rico	0003727880	RS	Active	04/06/2016
43	<u>WWR75</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
44	<u>WWR76</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
45	<u>WWT48</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
46	<u>WWT51</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
47	<u>WWT53</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
48	<u>WWY33</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
49	<u>WWY34</u>	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						

50	WWY73	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						
51	WWZ49	Puerto Rico Telephone Company, Inc.	0001731470	CF	Active	02/01/2011
						

Call Sign	Licensee Name	FRN	Radio Service	Status	Expiration Date
-----------	---------------	-----	---------------	--------	-----------------

Page 1

[ULS Help](#) [ULS Glossary](#) - [FAQ](#) - [Online Help](#) - [Technical Support](#) - [Licensing Support](#)[ULS Online Systems](#) [CORES](#) - [ULS Online Filing](#) - [License Search](#) - [Application Search](#)[About ULS](#) [Privacy Statement](#) - [About ULS](#) - [ULS Home](#)[Basic Search](#) By Call Sign  = [FCC](#) | [Wireless](#) | [ULS](#) | [CORES](#)[Help](#) | [Tech Support](#)

Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Phone: 1-888-CALL-FCC (1-888-225-5322)
TTY: 1-888-TELL-FCC (1-888-835-5322)
E-mail: fccinfo@fcc.gov

Federal Communications Commission Wireless Telecommunications Bureau

Radio Station Authorization (Reference Copy)

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Licensee: NEPTUNO MEDIA

**FCC Registration Number
(FRN):**

0012841458

Call Sign:
WQEQ831

File Number:

Radio Service:
CF - Common Carrier Fixed Point
to Point Microwave

SMSA Station Class
FXO

Grant Date
03/28/2006

Effective Date
03/28/2006

Expiration Date
03/28/2016

Print Date
05/10/2006

LOCATION

Fixed Location Address or Area of Operation

PR-124 KM 2.6, CALLEJONES WARD

City
Lares

County
LARES

State
PR

Loc. No.	Location Name	Latitude	Longitude	Elevation	Antenna Structure Registration No.
1	MOUNTAIN LARES	18-18-20.6 N	066-52-02.0 W	455.1m	1215922
2	RADIO REDENTOR	18-17-22.1 N	066-39-37.3 W	619.0m	
3	MONTE DEL ESTADO	18-08-52.8 N	066-58-58.6 W	899.8m	

FREQUENCY PATHS

Frequency (MHz)	Tol (%)	Emission Desig	EIRP (dBm)	Constr Date	Path No.	Seg	Emit Loc No.	Ant Hgt (m)	Gain (dBi)	Beam (deg)	POL	AZIM (deg)	Rec Loc No.	Rec Call Sign
005974.85000000	0.00100	30M0D7W	63.3	09/28/2007	1	1	1	30.5	38.8	1.8	H	94.7	2	
Reflectors Ht(m) x Wd(m)														
006093.45000000	0.00100	30M0D7W	63.3	09/28/2007	2	1	1	7.6	38.8	1.8	V	215.1	3	

Waivers/Conditions: Rule 101.145(b), relief authorized by Commission action to permit the aiming of an antenna within 2 degrees of a geostationary satellite orbit. In the event harmful interference is caused to the operation of other stations, the Commission may order changes to be made in the height, orientation, gain and radiation pattern of the antenna system.

Waivers/Conditions: None

Conditions

Federal Communications Commission Wireless Telecommunications Bureau

Radio Station Authorization (Reference Copy)

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

Licensee: NEPTUNO MEDIA

ATTN JOSE MUNIZ
NEPTUNO MEDIA
PO Box PO BOX 191995
SAN JUAN, PR 00919-1995

FCC Registration Number

(FRN):
0012841458

Call Sign:
WQEQ831

File Number:

Radio Service:
CF - Common Carrier Fixed Point
to Point Microwave

SMSA Station Class
FXO

Grant Date
03/28/2006

Effective Date
03/28/2006

Expiration Date
03/28/2016

Print Date
05/10/2006

LOCATION

Fixed Location Address or Area of Operation

PR-124 KM 2.6, CALLEJONES WARD

City
Lares

County
LARES

State
PR

Loc. No.	Location Name	Latitude	Longitude	Elevation	Antenna Structure Registration No.
1	MOUNTAIN LARES	18-18-20.6 N	066-52-02.0 W	455.1m	1215922
2	RADIO REDENTOR	18-17-22.1 N	066-39-37.3 W	619.0m	
3	MONTE DEL ESTADO	18-08-52.8 N	066-58-58.6 W	899.8m	

FREQUENCY PATHS

Frequency (MHz)	Tol (%)	Emission Desig	EIRP (dBm)	Constr Date	Path No.	Seg	Emit Loc No.	Ant Hgt (m)	Gain (dBi)	Beam (deg)	POL	AZIM (deg)	Rec Loc No.	Rec Call Sign
005974.85000000	0.00100	30M0D7W	63.3	09/28/2007	1	1	1	30.5	38.8	1.8	H	94.7	2	
Reflectors Ht(m) x Wd(m)														
006093.45000000	0.00100	30M0D7W	63.3	09/28/2007	2	1	1	7.6	38.8	1.8	V	215.1	3	

Waivers/Conditions: None

Conditions

Pursuant to Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. Section 309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. Section 310(d). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended. See 47 U.S.C. Section 706.

FCC 601 - M
September 2000



Exhibit 3

ANN BAVENDER*
SIMA N. CHOWDHURY*
HARRY F. COLE
ANNE GOODWIN CRUMP
VINCENT J. CURTIS, JR.
JOSEPH M. DI SCIPIO*
PAUL J. FELDMAN
JEFFREY J. GETT*
FRANK R. JAZZO
M. SCOTT JOHNSON*
MITCHELL LAZARUS
STEPHEN T. LOVELADY*
SUSAN A. MARSHALL
HARRY C. MARTIN
ALISON J. MILLER
FRANCISCO R. MONTERO
LEE G. PETRO*
RAYMOND J. GUANZON
MICHAEL W. RICHARDS*
JAMES P. RILEY
KATHLEEN VICTORY
HOWARD M. WEISS

*NOT ADMITTED IN VIRGINIA

By Hand Delivery

Joseph Casey, Chief
Spectrum Enforcement Division
Enforcement Bureau
Federal Communications Commission
445 12th Street, S.W. – TW-B204
Washington, DC 20554

FLETCHER, HEALD & HILDRETH

ATTORNEYS AT LAW

11th FLOOR, 1300 NORTH 17th STREET

ARLINGTON, VIRGINIA 22209

OFFICE: (703) 812-0400

FAX: (703) 812-0486

www.fhhlaw.com

May 18, 2006

RECEIVED - FCC

MAY 18 2006

Federal Communication Commission
Bureau / Office

PLEASE STAMP
AND RETURN
THIS COPY TO
FLETCHER, HEALD & HILDRETH
ATTORNEYS AT LAW
11th FLOOR, 1300 NORTH 17th STREET
ARLINGTON, VIRGINIA 22209
TEL: (703) 812-0400
FAX: (703) 812-0486
www.fhhlaw.com

RETIREE MEMBERS
FLETCHER, HEALD & HILDRETH
CONSULTANT FOR INTERNATIONAL AND
INTERGOVERNMENTAL AFFAIRS
SHELDON J. KRYSS
U. S. AMBASSADOR (ret.)
OF COUNSEL
DONALD J. EVANS
EDWARD S. O'NEILL*
ROBERT M. GURSS*
EUGENE M. LAWSON, JR.

petro@fhhlaw.com
703-812-0453

RE: **Complaint of Unauthorized Use of Radio Spectrum**

Dear Mr. Casey:

Islanet, Inc. ("Islanet"), by and through its attorneys, and pursuant to Section 1.41 of the Commission's rules, hereby submits this Supplement to the Complaint filed by Islanet on May 12, 2006 (the "Complaint"), which demonstrated that Neptuno Networks, Inc. ("Neptuno"), is using spectrum to provide broadband wireless service in certain portions of the 5 GHz band for which it has no authorization, and has illegally modified equipment that is not certified to operate in the new U-NII spectrum band.

Attached hereto is a Supplement to the Complaint, prepared by Islanet, in which additional evidence is provided to support the Complaint. Specifically, Islanet has located an additional two locations where Neptuno is using spectrum for which unlicensed operations is not authorized, and two other locations where the new U-NII spectrum band (5.470 - 5.725 GHz) is being used by Neptuno with equipment that has yet to be certified for use in this band. As noted in the complaint, neither Neptuno nor Axxcelera, the manufacturer of the equipment used by Neptuno, has received equipment authorizations for the new U-NII band. *See Complaint*, Exhibits C & D.

In light of this new information, which, combined with the Complaint demonstrates a blatant evisceration of the Commission's rules and policies, Islanet requests that the Commission immediately launch a full-scale investigation into the operations of Neptuno Networks. Moreover, if such illegal use of spectrum is verified by the Commission's staff, Islanet respectfully requests that the Commission utilize its powers under the Communications Act to order Neptuno to immediately cease all operations until it can be verified that Neptuno is using only that spectrum for which its use is authorized.

FLETCHER, HEALD & HILDRETH, P.L.C.

Joseph Casey, Chief
Spectrum Enforcement Division
May 18, 2006
Page 2

Should there be any questions regarding this information, please contact undersigned counsel.

Sincerely,

A handwritten signature in black ink, appearing to read "L.G. Petro", written over the printed name.

Frank R. Jazzo

Lee G. Petro

Counsel for Islandet, Inc.

Enclosures

cc: Mr. Reuben Jusino, Resident Agent
FCC - San Juan Resident Agent Office - by email



Engineering Statement in Re:
Non Compliant 47 CFR 15.247 WISP Operators
Mayaguez, PR

Islandnet, Inc.

Supplement

May 12, 2006



Engineering Statement in Re:
Non Compliant 47 CFR 15.247 WISP Operators
Mayaguez, PR

Supplement

Islanet, Inc.

Overview

Islanet Communications, Inc. learned that a competing service provider, Neptuno Networks, Inc. (herein referred to as "Neptuno") appeared to be using frequencies not available under Part 15 of the FCC rules. As this would give Neptuno an unfair competitive advantage (using frequencies essentially free from interference, as all unlicensed operators have to contend with), employees of Islanet, Inc. explored the inappropriate usage of these licensed frequencies in the Mayaguez, Puerto Rico area, per guidance provided by Waterford Consultants, LLC, which was retained by Islanet in the initial exploration of the illegal use of licensed frequencies in the San Juan metropolitan area.

On 11 May 2006, Islanet employees experienced in RF engineering, signal surveillance, and direction finding were dispatched to the Mayaguez area to conduct field measurements and document any improper frequency usage.

Equipment

An Anritsu MS2721A portable spectrum analyzer, serial number 545052, possessing a frequency range of 100 KHz – 7 GHz, was used to record frequency occupancy. The analyzer was last calibrated on 8 November 2005 with a calibration due date of 8 November 2006.

An LPA-6000 highly-directional log periodic antenna (LPA), with a frequency range of 2100 – 6000 MHz, nominal gain of 5 dB, and a high front-to-back ratio was used at the input of the analyzer. A 20' low-loss RF coaxial cable was used to facilitate pointing the antenna toward observed signals of interest. Since absolute signal strength was not the subject of this investigation, no attempt to calibrate antenna gain or line gain/loss was performed; thus only relative measurements of signal-to-noise ratios (SNRs) and baseband noise floors were captured.



Field Results

The attached Table 1. Improper Frequencies in Use, documents the results of visits to two sites in the Mayaguez, Puerto Rico area.

Additionally, all signals listed in Table 1 were sufficiently strong as to verify their transmission from the immediate site and respective antennas/emitters.

No attempt was made to demodulate the signals in order to determine which operator may have been responsible; however, in all instances the signals of interest appeared to have bandwidth and modulation characteristics consistent with the 802.11 standard, approximately 20 MHz wide, as depicted on the spectrum analyzer (see attached Figures). Moreover, it was possible to touch the antennas/emitters with the receiving antenna of the spectrum analyzer, and as such, it was possible to ascertain beyond reasonable doubt which antennas/emitters were broadcasting illegally in the licensed frequency bands as depicted in Table 1.

At both sites visited, the following information was acquired: 1) the data obtained was consistent with the field data obtained by Richard P. Biby, Registered Professional Engineer, in his previous report, upon which this Supplement is based; 2) there were frequencies of interest which were being used illegally in the licensed bands; and 3) visual inspection of the feedlines from the antennas/emitters indicated that the transmission and radiation equipment belonged to Neptuno.

Figures 1-4 depict spectrum analyzer screenshots with relevant data points of frequencies and amplitudes of the received signals of interest. Relevant pictures are associated with these screenshots; see below.

Conclusion

From the gathered data, there is substantial evidence that Neptuno is operating in spectra not allowed under the FCC Rules and Regulations. It further appears that these operations are not confined to a single geographic location.

Additionally, visual inspection of the installations indicated that the equipment has been in operation for some time and was not newly installed. Therefore, it is unlikely that Neptuno unintentionally used equipment recently made available for new Part 15, WISP operations. As most WISP equipment allows the user to choose which country's unlicensed spectrum to use, it follows that Neptuno intentionally chose to use RF spectra inconsistent with US and FCC rules and regulations.



Table 1 – Improper Frequencies in Use, Mayaguez, Puerto Rico

Site Name	GPS Coordinates	Date	Frequency (GHz)	Proper Use
El Castillo	N18°13'16.3" W67°09'19.3"	11 May 2006	5.840 – 5.876	ISM, Amateur, Private Land Mobile, Personal Radio
El Castillo	N18°13'16.3" W67°09'19.3"	11 May 2006	5.696 – 5.732	Future UNII
El Castillo	N18°13'16.3" W67°09'19.3"	11 May 2006	5.694 – 5.724	Future UNII
Bella Vista Hospital	N18°11'09.9" W67°07'11.5"	11 May 2006	5.147 – 5.194	Aeronautical Radionavigation

**Reference: FCC ONLINE TABLE OF FREQUENCY ALLOCATIONS
47 C.F.R. § 2.106
Revised on September 30, 2005**

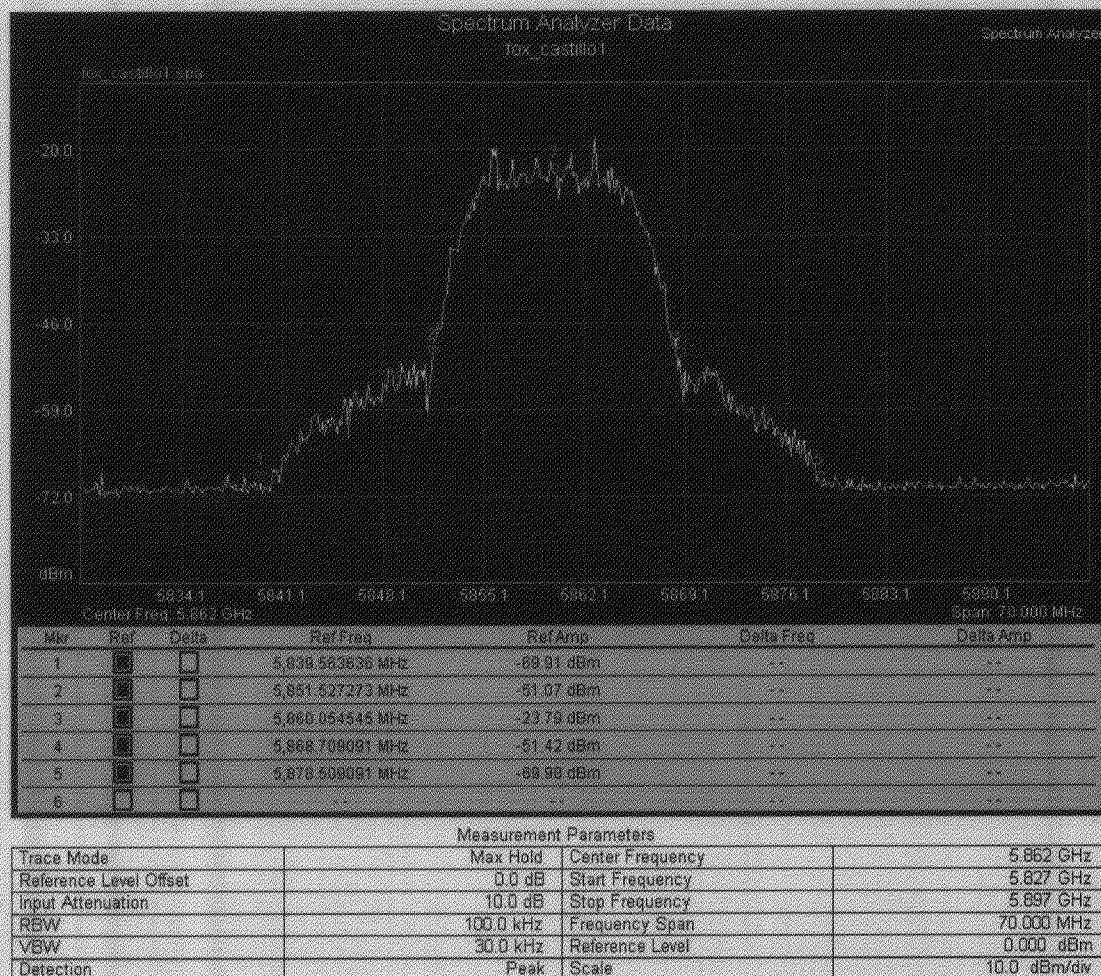
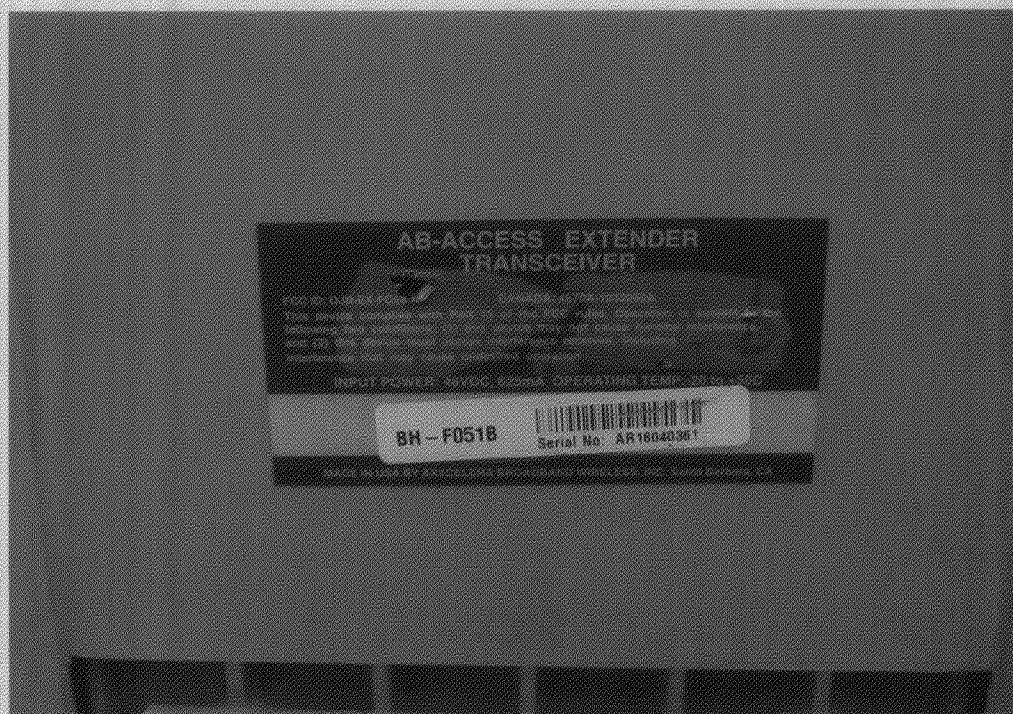
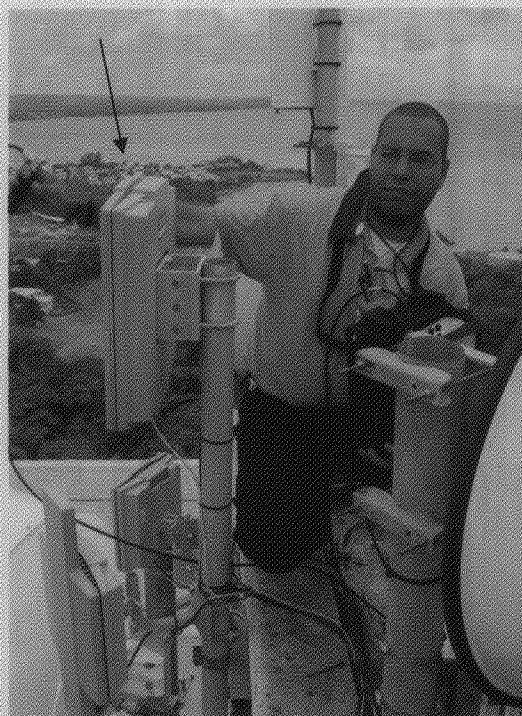
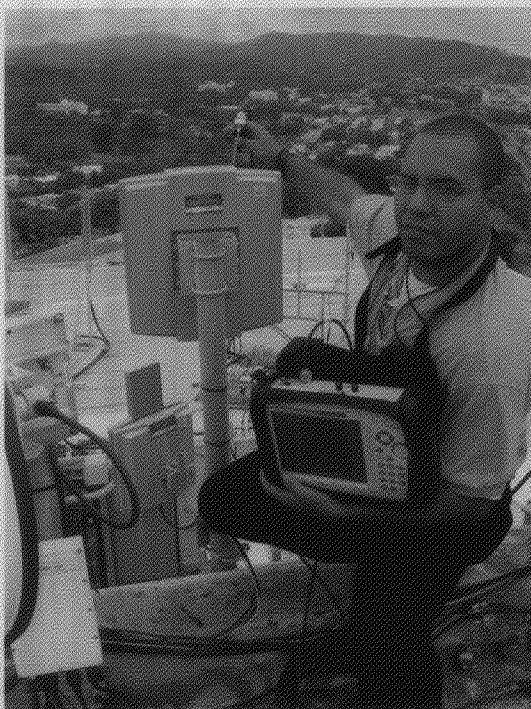


Figure 1 – El Castillo. Emitter #1, 5.840 – 5.876 GHz.



Pictures 1a, 1b, 1c – Emitter #1 testing & identification.

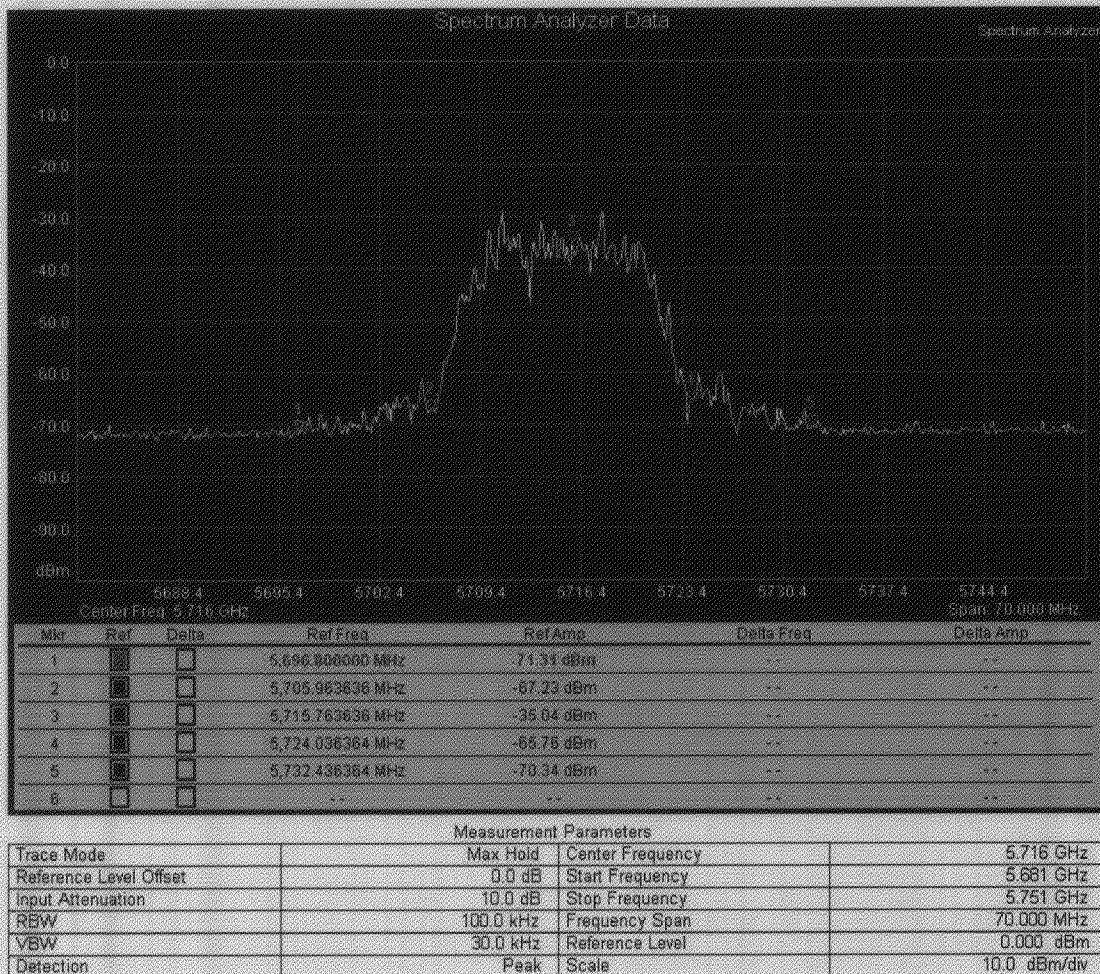
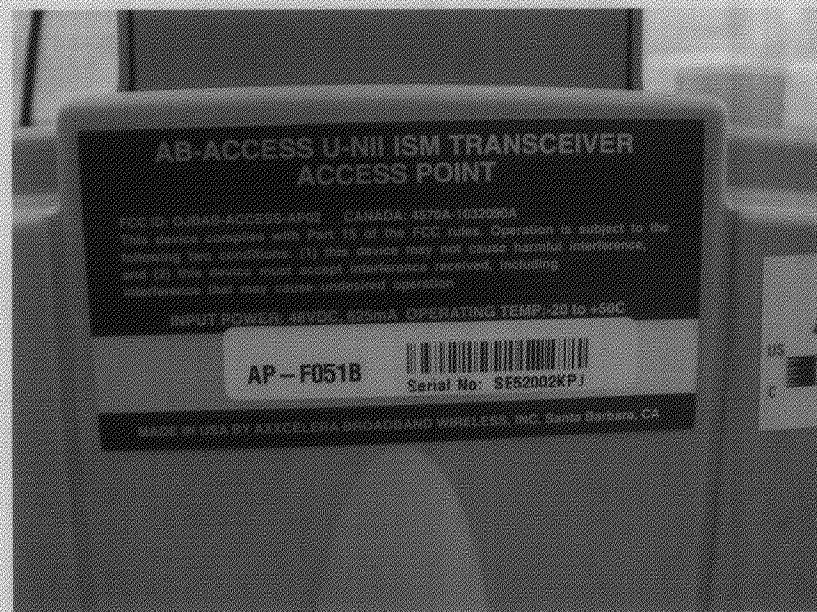


Figure 2 – El Castillo. Emitter #2, 5.696 – 5.732 GHz.



Pictures 2a, 2b – Emitter #2 testing & identification.

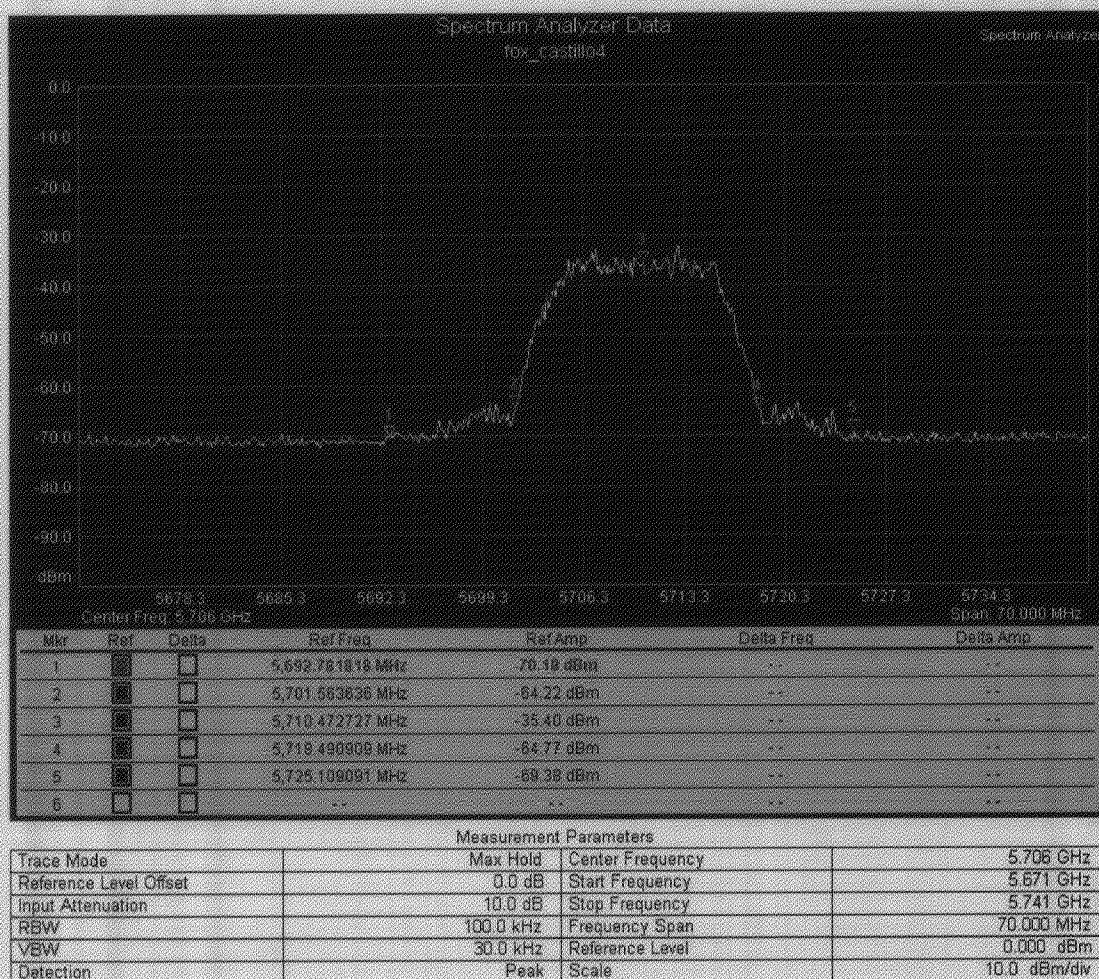
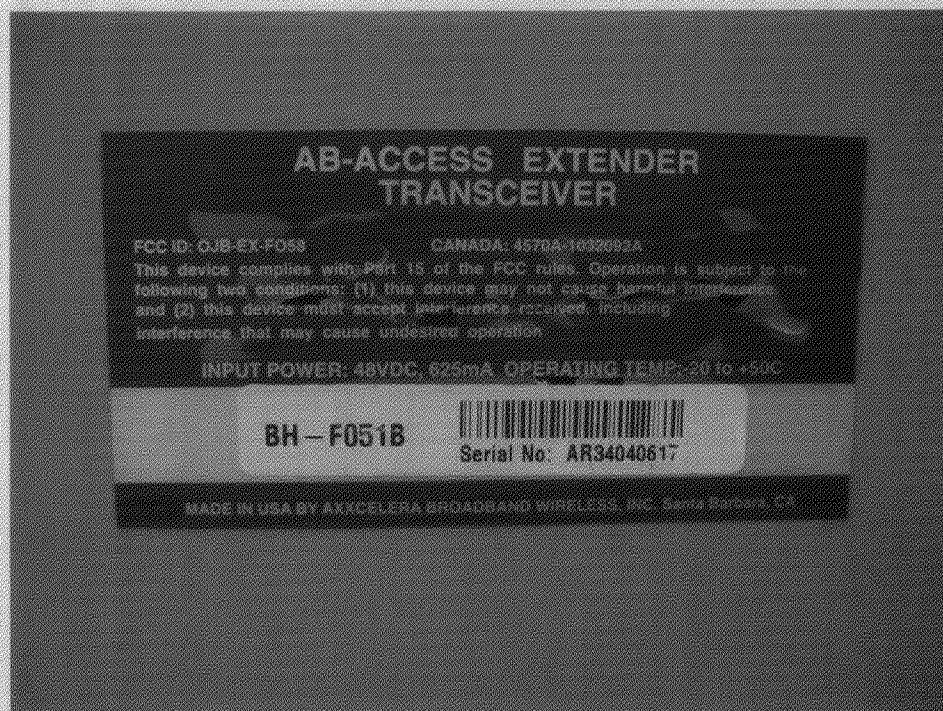
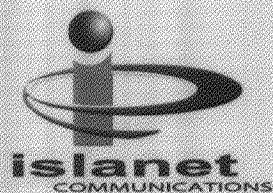
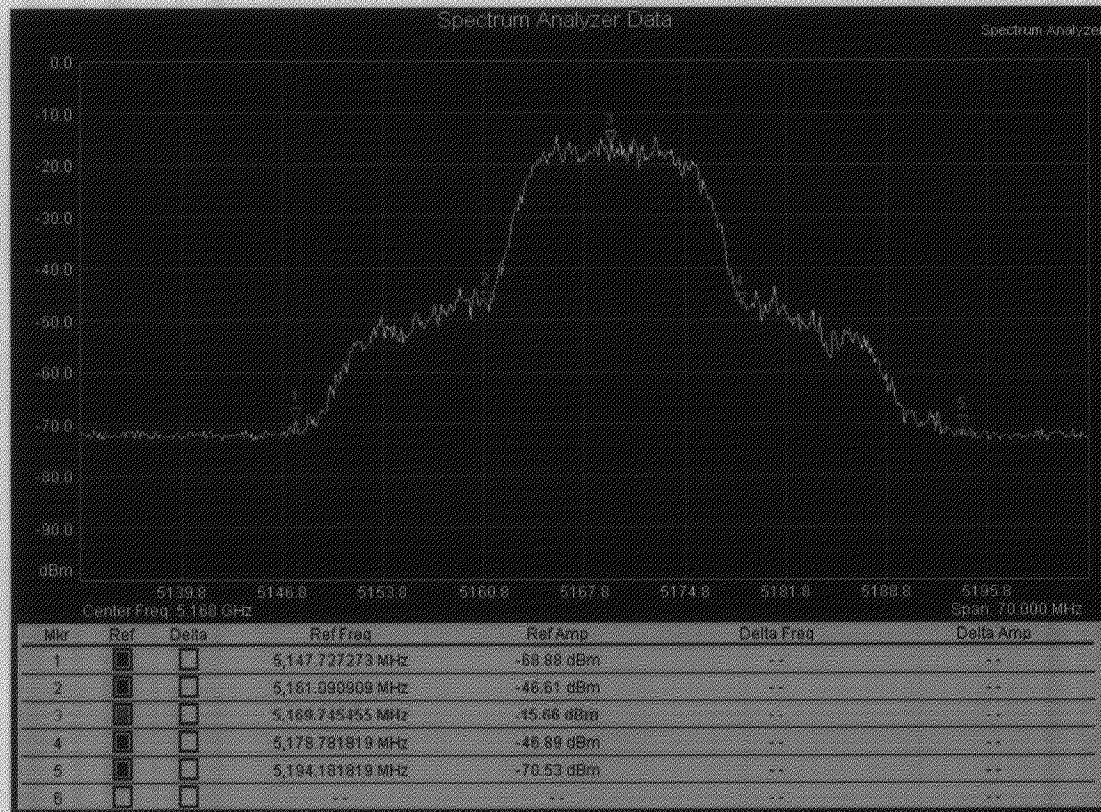


Figure 3 – El Castillo. Emitter #3, 5.694 – 5.724 GHz.

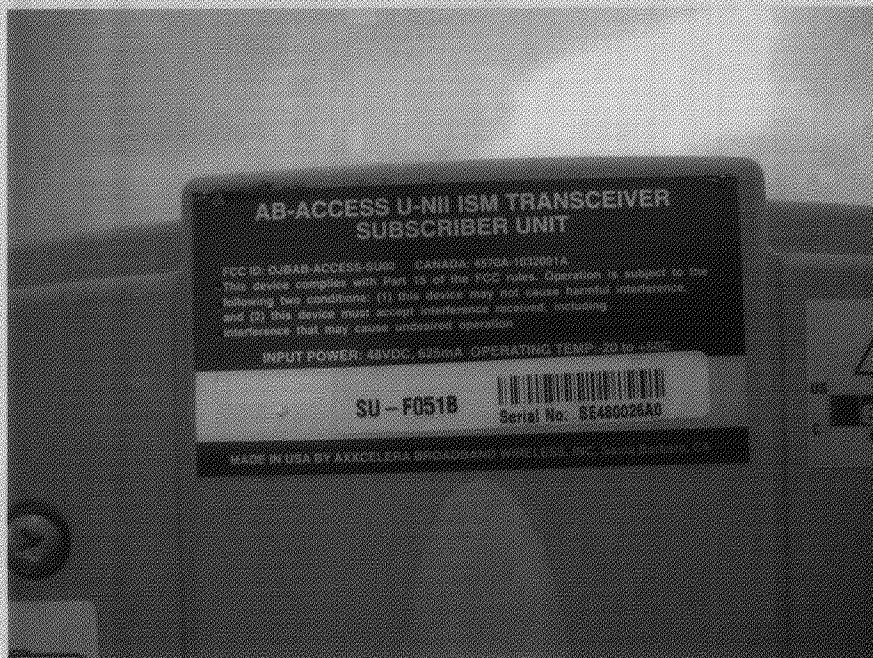


Pictures 3a, 3b - Emitter #3 – testing and identification.



Measurement Parameters			
Trace Mode	Max Hold	Center Frequency	5.168 GHz
Reference Level Offset	0.0 dB	Start Frequency	5.133 GHz
Input Attenuation	10.0 dB	Stop Frequency	5.203 GHz
RBW	100.0 kHz	Frequency Span	70.000 MHz
VBW	30.0 kHz	Reference Level	0.000 dBm
Detection	Peak	Scale	10.0 dBm/div

Figure 4 – Bella Vista Hospital. Emitter #1, 5.147 – 5.194 GHz.



Pictures 4a, 4b – Emitter #4 location & identification, Bella Vista Hospital.