



FCC PART 22 AND 24 MEASUREMENT AND TEST REPORT

For

Telular Corp.

580 Old Willets Path Hauppauge, NY 11788

FCC ID: MTFSX7EVDO2007

Report Type:		Product Type:	
🖂 Origina	l Report	Wireless CDMA Access Point	
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Report Number:	R0702141-22		
Report Date:	2007-03-14		
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1 - GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

The *Telular Corp.*'s product, FCC ID: MTFSX7EVDO2007 model: SX7T EVDO or the "EUT" as referred to in this report is Wireless CDMA Access Point marketed as a "Fixed Cellular Terminal." The EUT is intended for deployment in a office or home office environment and is designed to allow CDMA wireless devices to connect to either LAN or telephony networks. The EUT operates on both 824-849 MHz (cellular) and 1859-1910 MHz (PCS) bands and utilizes CDMA modulation. It is powered by either AC/ 12 VDC adapter or by 4.8 V rechargeable battery pack.

1.2 Mechanical Description

The EUT is of metallic construction and measures approximately 203 mm (L) x 140 mm (W) x 45 mm (H) and weighs approximately 1 kg.

* The test data gathered are from typical production sample, serial number: SX7T2141, provided by the manufacturer.

1.3 EUT Photo



Please see additional photos in Exhibit C

1.4 Objective

This type approval report is prepared on behalf of *Telular Corp.* in accordance with Part 2, Subpart J, Part 22 Subpart H, and Part 24 Subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

1.5 Related Submittal(s)/Grant(s)

No Related Submittals

1.6 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Cellular Radiotelephone Service Part 24 Subpart E - PCS

Applicable Standards: TIA EIA 98-C, TIA/EIA603-C, ANSI C63.4-2003.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.7 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 dB for Conducted Emissions tests and ± 4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

Detailed instrumentation measurement uncertainties can be found in BACL Corp. report QAP-018.

1.8 Test Facility

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11, 1997 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the test methods and procedures set forth in ANSI C63.4-2003 & TIA/EIA-603.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: R-2463 and C-2698. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is a National Institute of Standards and Technology (NIST) accredited laboratory under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at <u>http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm</u>.

2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to TIA/EIA 603-C.

The final qualification test was performed with the EUT operating at normal mode.

2.2 Equipment Modifications

No modifications were made to the EUT.

2.3 Power Supply and Line Filters

Manufacturer	Description	Model	Serial Number
ELPAC Power systems	AC-DC adaptor	FW1812	062770
Telular	4.8 V Rechargeable Battery Pack*	73001501	2006-12-12

*Battery pack was freshly and completely charged before the start of testing

2.4 Local Support Equipment List and Details

Manufacturer	Description Model		Serial Number	
Agilent	Wireless Communications Test Set	8960 Series 10 E5515C	GB44051221	
Mini-Circuits	Mini-Circuits Splitter		SF874700404	
Midwest Microwave 10dB attenuator pad		ATT-0263-10-000-02	N/A	
Inmet Corp.	DC Block	8055	N/A	

2.5 Interface Ports and Cabling

Cable Description	Length (M)	From	То
RF cable	0.2	Communications test set	Splitter
RF cable	0.2	Antenna port on EUT	Splitter

3 - SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 2.1047	Modulation Characteristics	N/A
§ 2.1053	Field Strength of Spurious Radiation	Compliant
§2.1091	RF Exposure	Compliant
§ 2.1046, § 22.912 (d) § 24.232	RF Output Power	Compliant
§ 2.1049 § 22.917 § 22.905 § 24.238	Out of Band Emissions, Occupied Bandwidth	Compliant
§ 2.1051, § 22.917 § 24.238(a)	Spurious Emissions at Antenna Terminals	Compliant
§ 2.1055 (a) § 2.1055 (d) § 22.355 § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917 §24.238	Band Edge	Compliant

4 - §2.1047 - MODULATION CHARACTERISTIC

4.1 Applicable Standard

According to FCC § 2.1047(d), part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

5 - §1.1307(b) (1) & §2.1091 - RF EXPOSURE

5.1 Applicable Standard

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)	
	Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f ²)	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	/	f/1500	30	
1500-100,000	/	/	1.0	30	

f = frequency in MHz

* = Plane-wave equivalent power density

5.2 MPE Prediction

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4\pi R^{\text{2}}$

Where: S = power density

- P = power input to antenna
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator

 $\mathbf{R} = \hat{\mathbf{d}}$ istance to the center of radiation of the antenna

Cellular band

Maximum peak output power at antenna input terminal:	25.20 (dBm)
Maximum peak output power at antenna input terminal:	331 (mW)
Prediction distance:	<u>20 (cm)</u>
Predication frequency:	836.52 (MHz)
Antenna Gain (typical):	3 (dBi)
Antenna gain:	1.995 (numeric)
Power density at predication frequency at 20 cm:	<u>0.1313 (mW/cm²)</u>
Power density at predication frequency at 20 cm:	$0.1313 (\text{mW/cm}^2)$

MPE limit for uncontrolled exposure at prediction frequency: $0.558 \text{ (mW/cm}^2)$

PCS band

Maximum peak output power at antenna input terminal:	<u>24.40 (dBm)</u>
Maximum peak output power at antenna input terminal:	<u>275 (mW)</u>
Prediction distance:	<u>20 (cm)</u>
Predication frequency:	<u>1880 (MHz)</u>
Antenna Gain (typical):	<u>3 (dBi)</u>
Antenna gain:	<u>1.995 (numeric)</u>
Power density at predication frequency at 20 cm:	$0.109 ({\rm mW/cm^2})$

MPE limit for uncontrolled exposure at prediction frequency: <u>1 (mW/cm²)</u>

5.3 Test Result

The EUT is a mobile device. The power density level at 20 cm is 0.1313 mW/cm^2 , which is below the uncontrolled exposure limit of 0.558 mW/cm^2 at 836.52 MHz for <u>Cellular band</u>. The power density level at 20 cm is 0.109 mW/cm^2 , which is below the uncontrolled exposure limit of 1 mW/cm^2 at 1880 MHz for <u>PCS band</u>.

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6 - §2.1053 - SPURIOUS RADIATED EMISSIONS

6.1 Applicable Standard

Requirements: CFR 47, § 2.1053, § 22.917, § 24.238.

6.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in $dB = 10 \lg (TXpwr in Watts/0.001) - the absolute level$

Spurious attenuation limit in $dB = 43 + 10 \text{ Log}_{10}$ (power out in Watts)

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	45 %
ATM Pressure:	101.2 kPa

* The testing was performed by Oscar Au on 2007-02-27.

6.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Agilent	Analyzer, Spectrum	E4446A	US44300386	2006-03-06
HP	Amplifier, Pre	8447D	2944A10198	2007-01-08
HP	Amplifier, Pre, Microwave	8449B	3147A00400	2006-08-21
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	261	2006-04-20
HP	Generator, Signal	83650B	3614A00276	2006-05-10
A.R.A.	Antenna, Horn	DRG-118/A	1132	2006-08-17

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

6.4 Test Result

Worst case reading as follows:

Cellular Band:

-33.78 dB at 2509.2 MHz

PCS Band:

-30.61 dB at 3760.00 MHz

Run # 1: 30MHz -10GHz Cellular Band Middle Channel

Indica	ated	Azimuth	Test Ar	ntenna	Substituted		Absolute	T : :4	Manain		
Frequency (MHz)	Amplitude (dBuV)	Degrees	Height (m)	Polar H/V	Frequency (MHz)	Level dBm	Antenna Gain Correction	Cable Loss (dB)	Level (dBm)	(dBm)	(dB)
2509.2	47.8	120	1.5	V	2509.2	-54.5	9.25	1.53	-46.78	-13	-33.78
2509.2	45.6	160	1.3	Н	2509.2	-56.8	9.25	1.53	-49.08	-13	-36.08
1672.8	52.3	36	1.3	V	1672.8	-57.3	9.27	1.38	-49.41	-13	-36.41
1672.8	51.2	50	1.5	Н	1672.8	-58.4	9.27	1.38	-50.51	-13	-37.51
3345.6	42.5	220	1.5	V	3345.6	-60.4	9.99	1.91	-52.32	-13	-39.32
3345.6	39.7	300	1.6	Н	3345.6	-63.7	9.99	1.91	-55.62	-13	-42.62

Run # 2: 30MHz -20GHz PCS Band Middle Channel

Indica	ated	Azimuth	Test Ar	tenna	Substituted		Absolute	T	M		
Frequency (MHz)	Amplitude (dBuV)	Degrees	Height (m)	Polar H/V	Frequency (MHz)	Level dBm	Antenna Gain Correction	Cable Loss (dB)	Level (dBm)	(dBm)	(dB)
3760	52.1	190	1.4	V	3760	-53.1	11.44	1.95	-43.61	-13	-30.61
3760	50.3	250	1.5	Н	3760	-55	11.44	1.95	-45.51	-13	-32.51
7520	43.3	330	1.5	V	7520	-58.7	11.14	2.93	-50.49	-13	-37.49
5640	41.3	300	1.2	V	5640	-60.5	11.22	2.56	-51.84	-13	-38.84
7520	40.2	280	1.5	Н	7520	-61.5	11.14	2.93	-53.29	-13	-40.29
5640	38.9	240	1.6	Н	5640	-63.8	11.22	2.56	-55.14	-13	-42.14

7 - §2.1046, §22.913(a), & §24.232 – RF OUTPUT POWER

7.1 Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (a), in no case may the peak output power of a base station transmitter exceed 2 watt.

7.2 Test Procedure

Conducted:

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.8 kPa

* The testing was performed by Oscar Au on 2007-02-27.

7.3 Test Equipment List and Details

Manufacturer Description		Model	Serial Number	Calibration Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2007-01-24

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

7.4 Test Results

Cellular band, Part22:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (Watt)	Antenna (dBi)	ERP (dBm)	Limit (dBm)
LOW	824.70	24.50	0.282	0	22.35	38.45
MIDDLE	836.52	25.20	0.331	0	23.05	38.45
HIGH	848.30	24.20	0.263	0	22.05	38.45

PCS band, Part24:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (Watt)	Antenna (dBi)	ERP (dBm)	Limit (dBm)
LOW	1851.25	24.00	0.251	0	24.00	33.00
MIDDLE	1880.00	24.40	0.275	0	24.40	33.00
HIGH	1908.75	23.80	0.240	0	23.80	33.00

Plots of Conducted Output Power for Part 22



Low Channel

Middle Channel





High Channel

Plots of Conducted Output Power for Part 24







Middle Channel

High Channel



8 - §2.1049, §22.917, §22.905, & §24.238 - OCCUPIED BANDWIDTH

8.1 Applicable Standard

Requirements: CFR 47, Section 2.1049, Section 22.901, Section 22.917 and Section 24.238.

8.2 Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 30 kHz(Cellular /PCS) and the -26 dB bandwidth was recorded.

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.8 kPa

* The testing was performed by Oscar Au on 2007-03-01.

8.3 Test Equipment List and Details

Manufacturer Description		Model	Serial Number	Cal. Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2007-01-24

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

8.4 Test Results

Cellular Band:

Channel Frequency (MHz)		Occupied Bandwidth (MHZ)		
LOW	824.70	1.407		
MIDDLE	836.52	1.403		
HIGH	848.30	1.407		

PCS Band:

Channel	Frequency (MHz)	Occupied Bandwidth (MHZ)
LOW	1851.25	1.420
MIDDLE	1880.00	1.407
HIGH	1908.75	1.430
MIDDLE HIGH	1880.00 1908.75	1.407 1.430

Please refer to the following plots.

Cellular Band:



Low Channel

Middle Channel







PCS Band:

Low Channel





Middle Channel

High Channel



9 - §2.1051, §22.917, & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

9.1 Applicable Standard

Requirements: CFR 47, § 2.1051. § 22.917 & §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

9.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to $10^{\rm th}$ harmonic.

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.8 kPa

* The testing was performed by Oscar Au on 2007-03-02.

9.3 Test Equipment List and Details

Manufacturer Description		Model	Serial Number	Cal. Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2007-01-24

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

9.4 Test Results

Please refer to the hereinafter plots.

Plots of Spurious Emissions for Cellular band Part22, mid channel







Plots of Spurious Emissions for PCS band Part24, middle channel









10 - §2.1055 (a), §2.1055 (d), §22.355, & §24.235 - FREQUENCY STABILITY

10.1 Applicable Standard

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1_Frequency Tolerance for Transmitters in the Public Mobile Services

Table C-1_Frequency Toler Services	ance for Trans	smitters in the l	Public Mobile
Frequency range (MHz)	Base, fixed (ppm)	Mobile [le]3 watts (ppm)	Mobile [le]3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

According to §24.235, The frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

10.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	58 %
ATM Pressure:	101.8 kPa

* The testing was performed by Oscar Au on 2007-03-03.

10.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Frequency Counter	5342A	2232A06380	2006-12-12
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2007-01-24
ESPEC	Temp/ Humidity chamber	ESL-4CA	018010	2006-11-15

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

10.4 Test Results

Cellular Band Part22:

Frequency Stability versus Temperature (with AC-DC adaptor)

Reference Frequency: 836.52 MHz, Limit: 2.5ppm			
		Frequency N	Measure with Time Elapsed
Environment Temperature (°C)	Power Supplied (VAC)	Measured Frequency (MHz)	Error (ppm)
50	120	836.520010	0.012
40	120	836.520009	0.011
30	120	836.520004	0.005
20	120	836.520003	0.004
10	120	836.520005	0.006
0	120	836.520006	0.007
-10	120	836.520007	0.008
-20	120	836.520005	0.006
-30	120	836.520005	0.006

Frequency Stability versus Voltage (with AC-DC adaptor)

Reference Frequency: 836.52 MHz, Limit: 2.5ppm			
Power Supplied (VAC)	Environment Temperature (°C)	Measured Frequency (MHz)	Error (ppm)
108	20	836.520012	0.014
132	20	836.520011	0.013

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Reference Frequency: 836.52 MHz, Limit: 2.5ppm			
		Frequency I	Measure with Time Elapsed
Environment Temperature (°C)	Power Supplied (DC)	Measured Frequency (MHz)	PPM Error
50	4.8	836.520010	0.012
40	4.8	836.520009	0.011
30	4.8	836.520004	0.005
20	4.8	836.520003	0.004
10	4.8	836.520005	0.006
0	4.8	836.520006	0.007
-10	4.8	836.520007	0.008
-20	4.8	836.520005	0.006
-30	4.8	836.520005	0.006

Frequency Stability versus Temperature (battery operated mode)

Frequency Stability versus Voltage (battery operated mode)

Reference Frequency: 836.52 MHz, Limit: 2.5ppm			
Power Supplied (DC)	Environment Temperature (°C)	Measured Frequency (MHz)	Error (ppm)
4.4	20	836.520012	0.014
5.3	20	836.520009	0.011

PCS Band Part 24:

Frequency Stability versus Temperature (with AC-DC adaptor)

Reference Frequency: 1880 MHz, Limit: 2.5ppm			
		Frequency Me	easure with Time Elapsed
Environment Temperature (°C)	Power Supplied (VDC)	Measured Frequency (MHz)	Error (ppm)
50	120	1880.000013	0.007
40	120	1880.000022	0.012
30	120	1880.000010	0.005
20	120	1880.000002	0.001
10	120	1880.000008	0.004
0	120	1880.000008	0.004
-10	120	1880.000010	0.005
-20	120	1880.000008	0.004
-30	120	1880.000011	0.006

Frequency Stability versus Voltage (with AC-DC adaptor)

Reference Frequency: 1880 MHz, Limit: 2.5ppm			
Power Supplied (VDC)	Environment Temperature (°C)	Measured Frequency (MHz)	Error (ppm)
102	20	1880.0010	0.532
132	20	1880.0008	0.426

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Reference Frequency: 1880 MHz, Limit: 2.5ppm			
		Frequency Mea	asure with Time Elapsed
Environment Temperature (°C)	Power Supplied (VDC)	Measured Frequency (MHz)	Error (ppm)
50	4.8	1880.000013	0.007
40	4.8	1880.000022	0.012
30	4.8	1880.000010	0.005
20	4.8	1880.000002	0.001
10	4.8	1880.000008	0.004
0	4.8	1880.000008	0.004
-10	4.8	1880.000010	0.005
-20	4.8	1880.000008	0.004
-30	4.8	1880.000011	0.006

Frequency Stability versus Temperature (battery operated mode)

Frequency Stability versus Voltage (battery operated mode)

Reference Frequency: 1880 MHz, Limit: 2.5ppm			
Power Supplied (VDC)	Environment Temperature (°C)	Measured Frequency (MHz)	Error (ppm)
4.4	20	1880.0010	0.532
5.3	20	1880.0015	0.798

11 – §22.917 & §24.238 – BAND EDGE

11.1 Applicable Standard

According to § 22.917, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

According to \$24.238, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

11.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.

Environmental Conditions

Temperature:	19 °C
Relative Humidity:	51 %
ATM Pressure:	101.8 kPa

* The testing was performed by Oscar Au on 2007-03-02.

11.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Agilent	Analyzer, Spectrum	8565EC	3946A00131	2007-01-24

* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

11.4 Test Results

Please refer to the following plots.

FCC ID: MTFSX7EVDO2007

Plots of Band Edge for Part 22





Plots of Band Edge for Part 24



