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RF MEASUREMENT RESULTS1

Based on the identified dominant frequencies, a measurement routine was created to assess RF exposure levels at different locations. Power density measurements were performed for the different frequency bands with the Narda SRM 3006 in the Safety Evaluation, Integration, and/or Level Recorder mode. Maximum peak levels and average levels were recorded. The following maximum Power Density results were obtained at the time of our survey, and are reported in microWatts per square meter ($\mu W/m^2$). Note: Numbers are rounded to the nearest whole number and values between 0.1 – 1.0 are rounded up to 1.

*Table 2: Power Density Results expressed in $\mu W/m^2$ - **Results of Maximum Peak Values***

Location	TV & FM Radio	ISM	Wi-Fi	DECT	Total Cellular	Total Power Density
Backyard (S.)	994	1	986	ND	7,451	9,432
West Exterior	923	1	37	ND	4,782	5,743
Front Yard (N.)	416	1	338,902	ND	808	340,127
Master Bedroom	59	1	274	ND	280	594
Living Room	39	1	19,456	ND	452	19,640

- See Table 1 for examples of signal types, applications & frequencies.
- See Table 3 for a more information on cellular only power density results.
- ND = Non Detect
- Directly at Wi-Fi Router (with no cover) = 592,150 $\mu W/m^2$
- Directly at Wi-Fi Router (with cover) = 90,140 $\mu W/m^2$

*Table 3: Cellular Only Power Density Results expressed in $\mu W/m^2$ - **Results of Maximum Peak Values***

Location	600 MHz	700 MHz	800 MHz	900 MHz	1900 MHz	2100 MHz	2300 MHz	2500/ 2600 MHz	3 GHz	Total Cellular Power Density
Backyard	12	694	740	1	3,830	1,818	100	114	142	7,451
W. Ext.	5	389	1,028	1	1,868	1,417	38	18	18	4,782
Front (N)	3	117	30	1	338	274	24	10	11	808
M-Bed	2	59	11	1	123	70	5	4	5	280
LR	1	129	75	1	118	110	5	5	8	452

Sun Rm
338,902 wi fi

RADIO FREQUENCY (RF) SURVEY REPORT

Conducted At
60645 Kimlin Avenue
Desert Hot Springs, CA 92282

Prepared For
Robin Harris
Tel: 760-668-4124
Email: robinoffroad@gmail.com

Growatt

Survey Date
December 16, 2025

Report Date
December 19, 2025

ET&T Project 250777

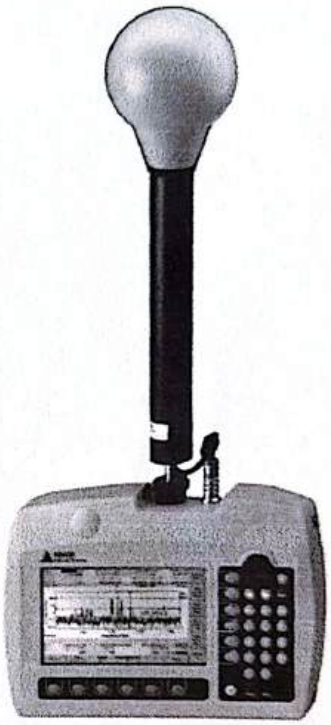
Environmental Testing & Technology, Inc. (ET&T)
1106 Second Street, Suite 102 ▲ Encinitas, CA 92024
Tel: 760-804-9400 ▲ www.ETandT.com ▲ www.EMFRF.com

INTRODUCTION

Environmental Testing & Technology, Inc. (ET&T) was retained by Robin Harris to conduct a radio frequency (RF) survey at a residence located at 60645 Kimlin Avenue, Desert Hot Springs, CA 92282. The purpose of the survey was to measure and determine the RF frequency spectrum present at the property and to conduct power density measurement to assess the amplitude of the RF signals. The survey was conducted by Mr. Andrew Jordan and Mr. Brad Murico, Industrial Hygienists with ET&T on December 16, 2025, between approximately 10:30 am and 1:45 pm. The survey is an RF assessment and not a regulatory FCC compliance survey. This report summarizes our survey findings and measurement results.

INSTRUMENTATION AND METHODOLOGY

A Narda *Selective Radiation Meter SRM-3006* with an isotropic antenna was used to ascertain the frequency spectrum present and to assess the power density or field strength levels in the building. The Narda *SRM-3006* is specifically designed for measurements for high frequency RF and microwave radiation to identify external and internal RF sources and their signal amplitude. The instrument allows measurements in the frequency range from 26 MHz to 6,000 MHz. The main focus was emissions in the cellular frequency bands (GSM, LTE, UMTS, and CDMA) and internal wireless network (WLAN) systems.



Measurements were performed approximately 3 to 4 feet above the floor level. The *SRM-3006* instrument is calibrated according to manufacturer's specifications. The dominant frequencies were identified and the amplitude of the signal determined. The maximum peak values were recorded, and are reported in microWatts per square meter ($\mu W/m^2$). The total measurement accuracy of the spectrum analyzer with the connected antenna is plus/minus 3 decibels (dB).

SPECTRUM ANALYSIS RESULTS

The first task was to identify the dominant RF frequencies through a spectrum analysis in the 86MHz to 6GHz frequency band detectable at the site. This frequency spectrum contains the band width for FM radio and television broadcast transmitters, all cellular base station frequencies, smart meters (ISM Band 902 – 928 MHz), and wireless devices such as routers, cordless phones and game consoles. We identified the frequency bands currently used by the cellular antennas as downlink frequencies and scanned for the presence of a wireless local area networks (Wi-Fi) and DECT cordless phones. Graph 1 depicts the individual RF signals detected and their approximate amplitude. The amplitude is displayed on a logarithmic scale, the higher the peak in the graph, the stronger the signal detected.

Graph 1: Frequency Spectrum Analysis from 86 MHz to 3.0 GHz to Identify RF sources

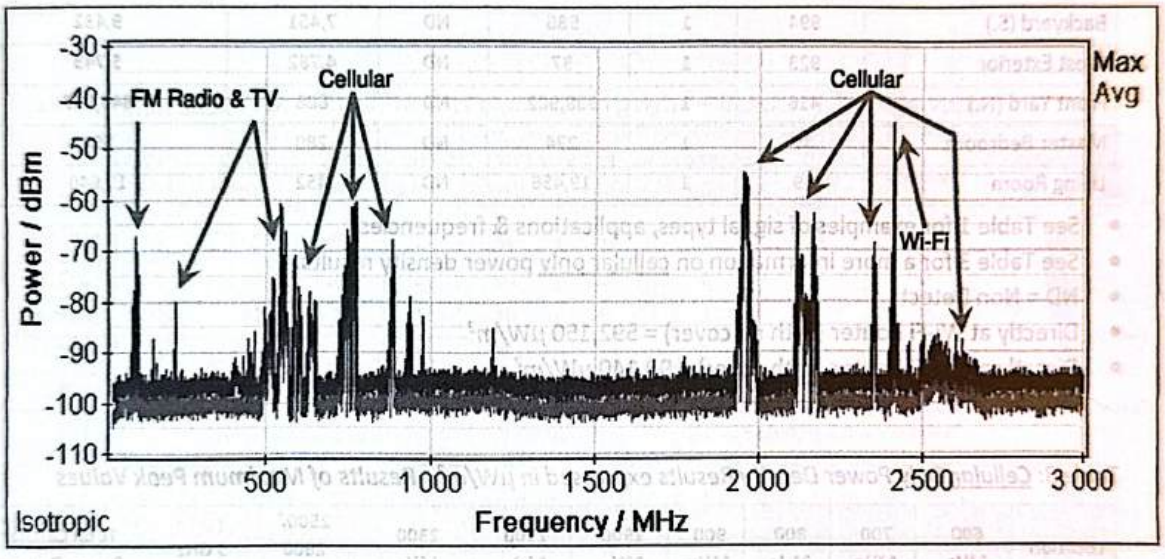


Table 1: Examples of Common Signal Types and Applications (for informational purposes).

Signal Type	Frequency Range (MHz)	Source & Application Examples
FM Radio	88–108	FM Radio
TV	54–72, 174–216, 470–610	TV Channels
Cellular	600's, 700's, 800's, 1900's, 2100's, 2300's, 2500's, 2600's, 3800's	Cellular Transmission Signals
ISM	902 – 928	Smart Meters, Cordless phones, Baby Monitors, Microwaves, Security Systems
DECT	1920 – 1930	DECT Cordless Phones
Wi-Fi	2400 – 2500, 5180 – 5825	Wi-Fi, Bluetooth, Gaming Consoles, Cordless Phones, Baby Monitors, Microwaves

RF Measurement Results1

Based on the identified dominant frequencies, a measurement routine was created to assess RF exposure levels at different locations. Power density measurements were performed for the different frequency bands with the Narda SRM 3006 in the Safety Evaluation, Integration, and/or Level Recorder mode. Maximum peak levels and average levels were recorded. The following maximum Power Density results were obtained at the time of our survey, and are reported in microWatts per square meter ($\mu W/m^2$). Note: Numbers are rounded to the nearest whole number and values between 0.1 – 1.0 are rounded up to 1.

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- See Table 1 for examples of signal types, applications & frequencies.
- See Table 3 for a more information on cellular only power density results.
- ND = Non Detect
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M-Bed	2	59	11	1	123	70	5	4	5	**280**
LR	1	129	75	1	118	110	5	5	8	**452**

*Table 4: Power Density Results expressed in µW/m² – **Results of Average Values***

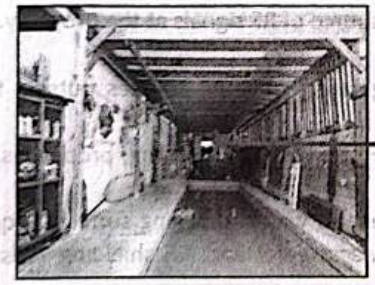
Location	TV & FM Radio	ISM	Wi-Fi	DECT	Total Cellular	Total Power Density
Backyard (S.)	197	1	17	ND	257	472
West Exterior	62	1	2	ND	302	367
Front Yard (N.)	65	1	10,031	ND	43	10,140
Master Bedroom	18	3	3	ND	16	38
Living Room	20	1	585	ND	25	633

- See Table 1 for examples of signal types, applications & frequencies.
- See Table 5 for a more information on cellular only power density results.
- ND = Non Detect

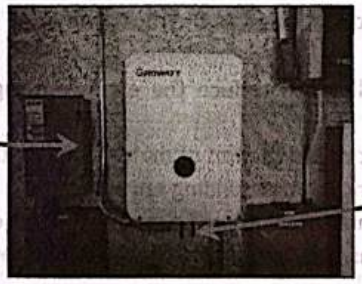
*Table 5: Cellular Only Power Density Results expressed in µW/m² – **Results of Average Values***

Location	600 MHz	700 MHz	800 MHz	900 MHz	1900 MHz	2100 MHz	2300 MHz	2500/ 2600 MHz	3 GHz	Total Cellular Power Density
Backyard	2	66	45	1	66	56	5	6	10	257
W. Ext.	1	16	59	1	98	122	2	1	2	302
Front (N)	1	11	1	1	18	6	2	1	2	43
M-Bed	1	2	1	1	6	2	1	1	1	16
LR	1	7	2	1	6	6	1	1	2	27

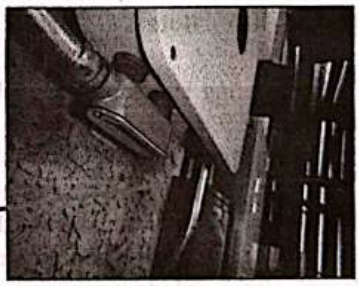
PHOTO DOCUMENTATION



Front Exterior (North)



Overview – Solar Inverter



Antennas located at the bottom of the solar inverter

RF Summary and Recommendations

- The RF power density levels detected at the premises are below the U.S. Federal Communication Commission's (FCC) regulatory compliance standard, the *Maximum Permissible Exposure (MPE)* limits, for the general public.
  - The FCC's MPE limits are based on thermal heating effect only and are amongst one of the highest internationally.
  - The FCC is currently reviewing the scientific literature and its current RF exposure standards.
  - Because of the concerns, numerous scientific organizations, municipalities and governmental agencies are promoting lower preventative action level.
  - Many organizations such as the US BioInitiative Report and the Austrian Medical Association promote the ALARA (as low as reasonably achievable) principle.

- There is some influence from outside cellular antennas on the locations measured during our survey.
  - The maximum peak RF levels in respect to the *cellular antennas only* on the locations measured between **280 $\mu W/m^2$ – 7,451 $\mu W/m^2$** during the time of our survey.
  - The average RF levels in respect to the *cellular antennas only* on the locations measured between **16 $\mu W/m^2$ – 302 $\mu W/m^2$** during the time of our survey.
  - The RF emission from cellular transmission antennas will vary with cellular traffic and usage. Therefore, our measurement results are a reflection of the current antenna configuration and traffic during our site visit.

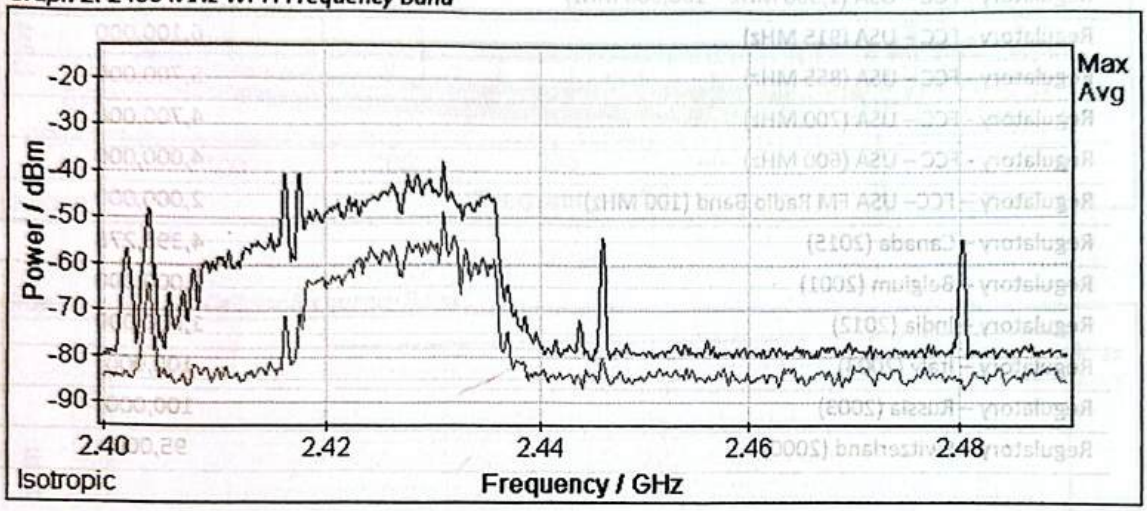
- There appears to be influence from Wi-Fi signals on the locations measured.
  - The maximum peak RF levels in respect to the *Wi-Fi signals only* on the locations measured between **37 $\mu W/m^2$ – 338,902 $\mu W/m^2$** during the time of our survey.
  - The average RF levels in respect to the *Wi-Fi signals only* on the locations measured between **2 $\mu W/m^2$ – 10,031 $\mu W/m^2$** during the time of our survey.
  - Hardwiring wireless devices such solar inverters, routers, computers, printers and speakers can help reduce RF levels.
  - Note: Wi-Fi signals contributed as the most dominate source of RF signals at the property.

- Engineering solutions are available to reduce the exposure originating from RF sources outside the building.
  - They mainly consist of installation of materials with RF attenuating (shielding) properties on the interior or exterior of the building envelope.
  - They range from the installation of a copper wire mesh to wall and ceiling surfaces, liquid coating applications, installation of shielded windows screens and RF shielding foils at window panes.

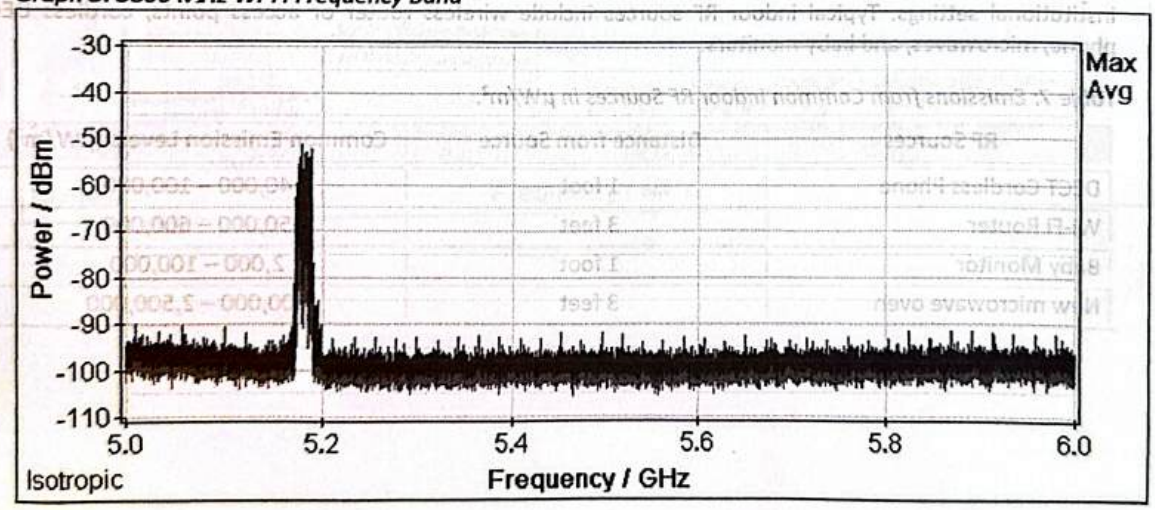
ADDITIONAL RF SPECTRUM ANALYSIS RESULTS

In the following Graphs 2 – 13, we are documenting the current dominant frequency bands and channels used in a spectrum analyzer view. This will allow a comparison and identification of the new frequency bands and channels which may be added.

Graph 2: 2400 MHz Wi-Fi Frequency Band



Graph 3: 5800 MHz Wi-Fi Frequency Band



RF Reference Data

To provide you with some reference values, the following tables include several international regulatory threshold limits.

Table 6: International RF Threshold Limits, Guidelines, Recommendations and References

Entity	Power Density (µW/m²)
Regulatory - FCC – USA (1,500 MHz – 100,000 MHz)	10,000,000
Regulatory - FCC – USA (915 MHz)	6,100,000
Regulatory - FCC – USA (855 MHz)	5,700,000
Regulatory - FCC – USA (700 MHz)	4,700,000
Regulatory - FCC – USA (600 MHz)	4,000,000
Regulatory – FCC– USA FM Radio Band (100 MHz)	2,000,000
Regulatory – Canada (2015)	4,393,278
Regulatory – Belgium (2001)	2,000,000
Regulatory – India (2012)	1,000,000
Regulatory – Italy (2003)	100,000
Regulatory – Russia (2003)	100,000
Regulatory – Switzerland (2000)	95,000

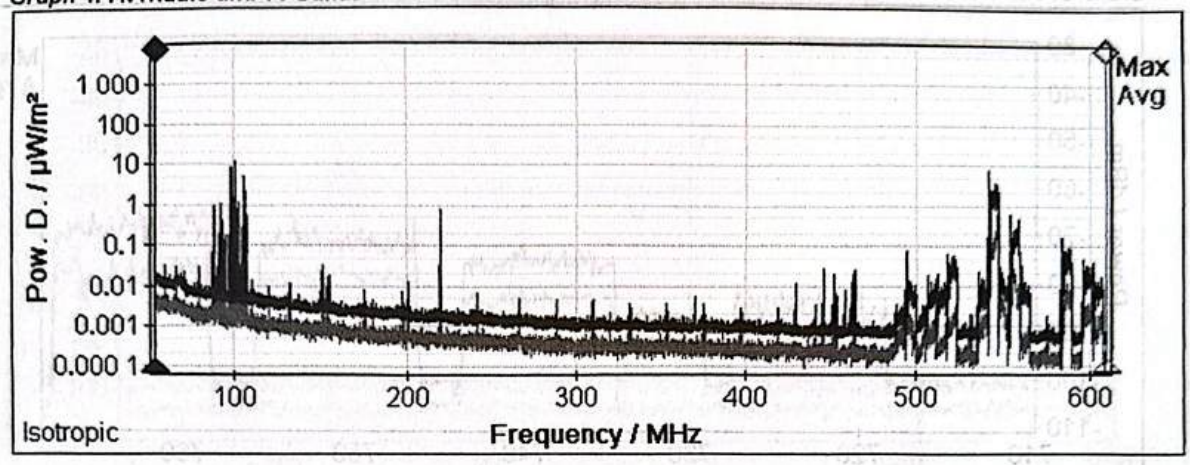
Other Real Life RF Exposure Comparisons

The following table provides a comparison of common RF sources found in residential buildings and institutional settings. Typical indoor RF sources include wireless router or access points, cordless DECT phone, microwaves, and baby monitors.

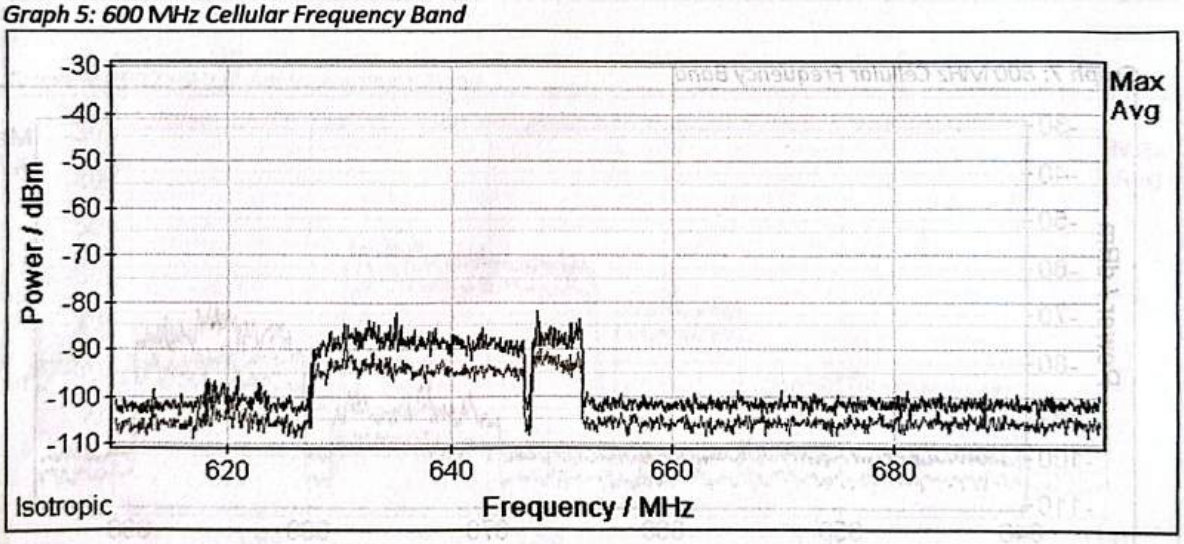
Table 7: Emissions from Common Indoor RF Sources in µW/m².

RF Sources	Distance from Source	Common Emission Levels (µW/m²)
DECT Cordless Phone	1 foot	40,000 – 100,000
Wi-Fi Router	3 feet	50,000 – 600,000
Baby Monitor	1 foot	2,000 – 100,000
New microwave oven	3 feet	500,000 – 2,500,000

Graph 4: FM Radio and TV Bands

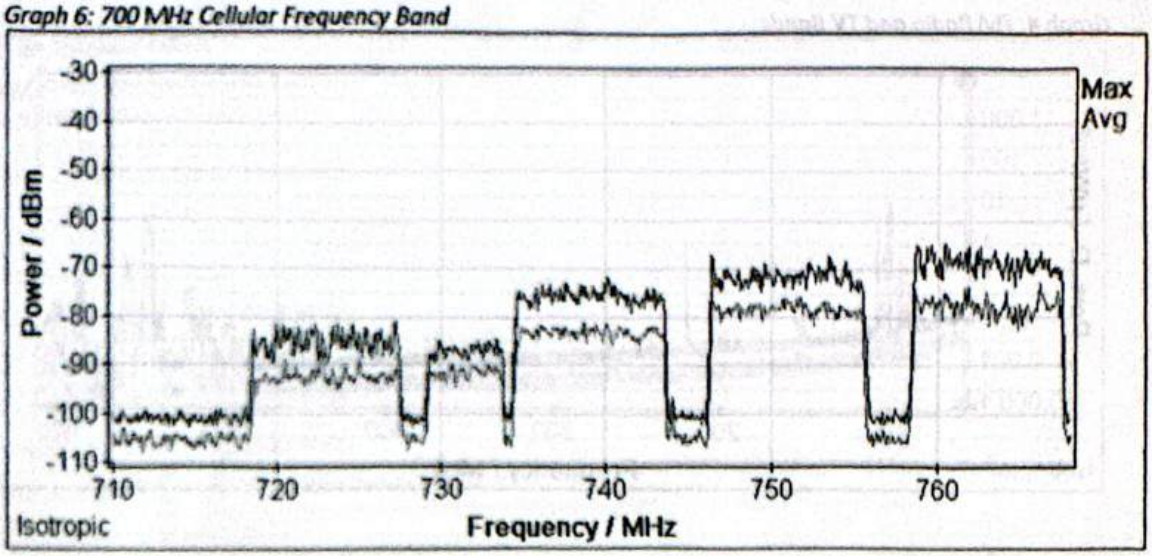


Graph 5: 600 MHz Cellular Frequency Band

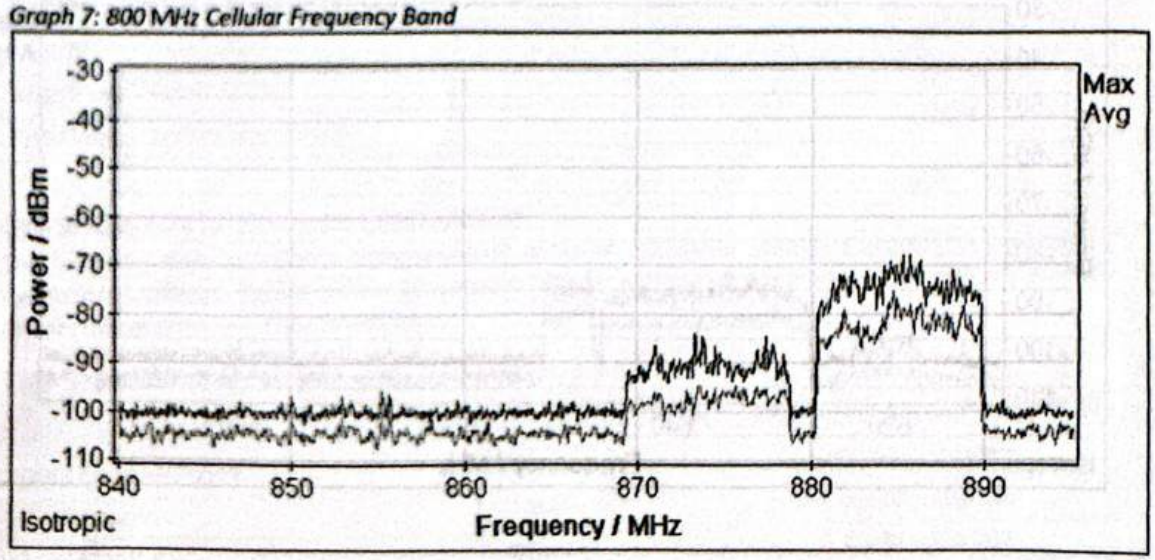


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Graph 6: 700 MHz Cellular Frequency Band

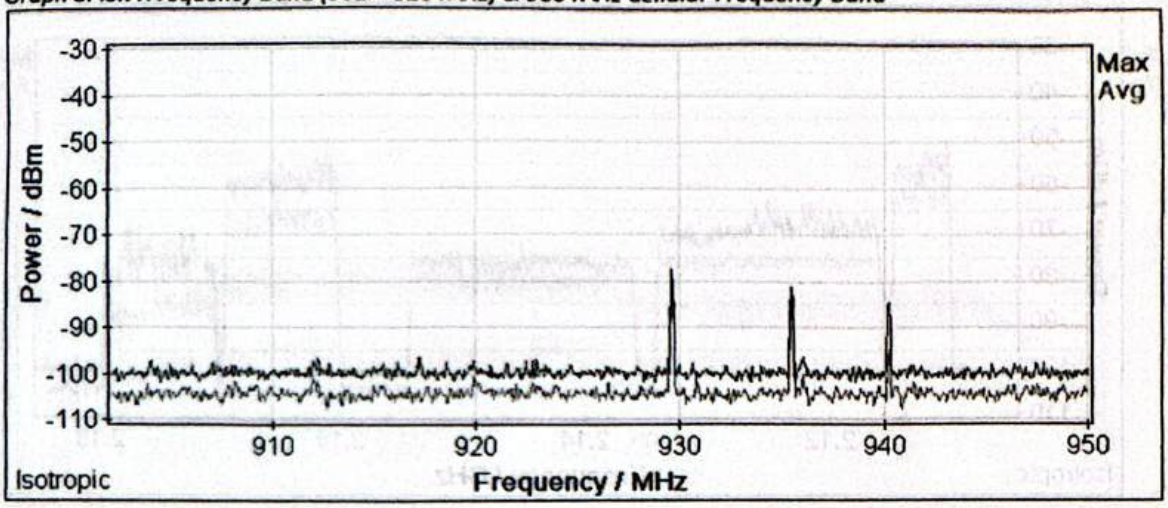


Graph 7: 800 MHz Cellular Frequency Band

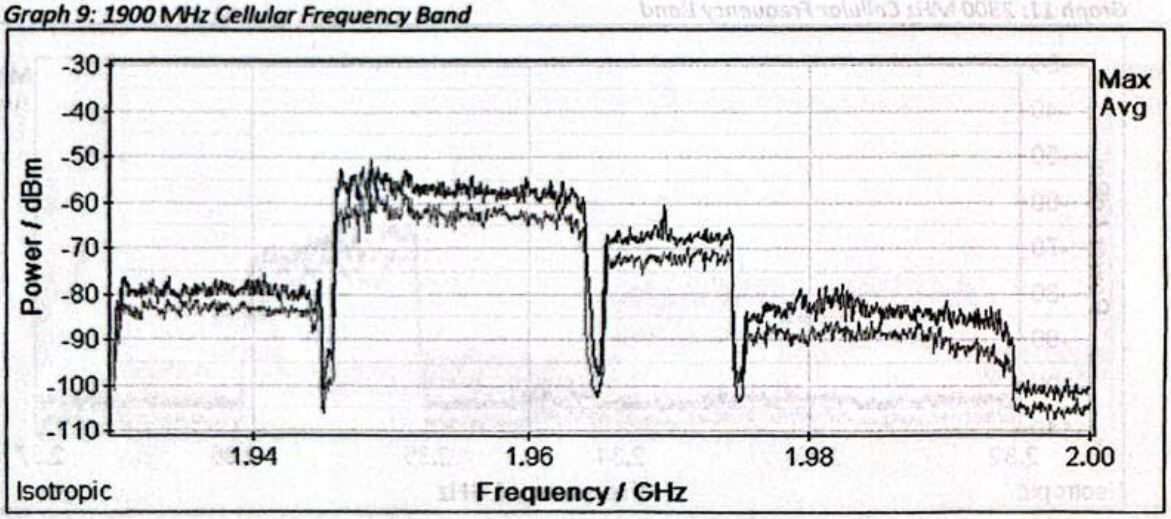


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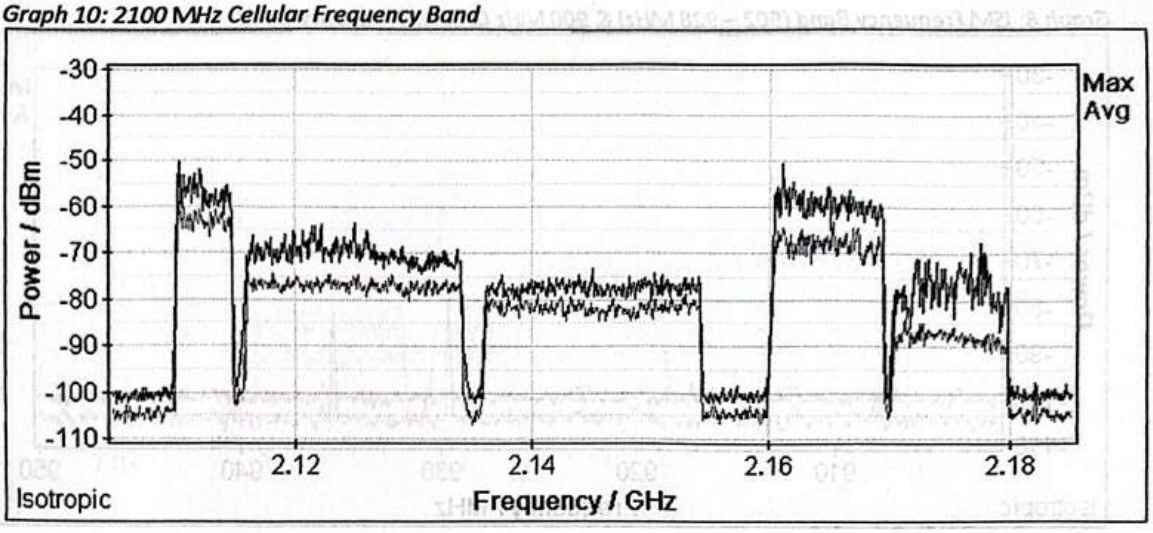
Graph 8: ISM Frequency Band (902 – 928 MHz) & 900 MHz Cellular Frequency Band



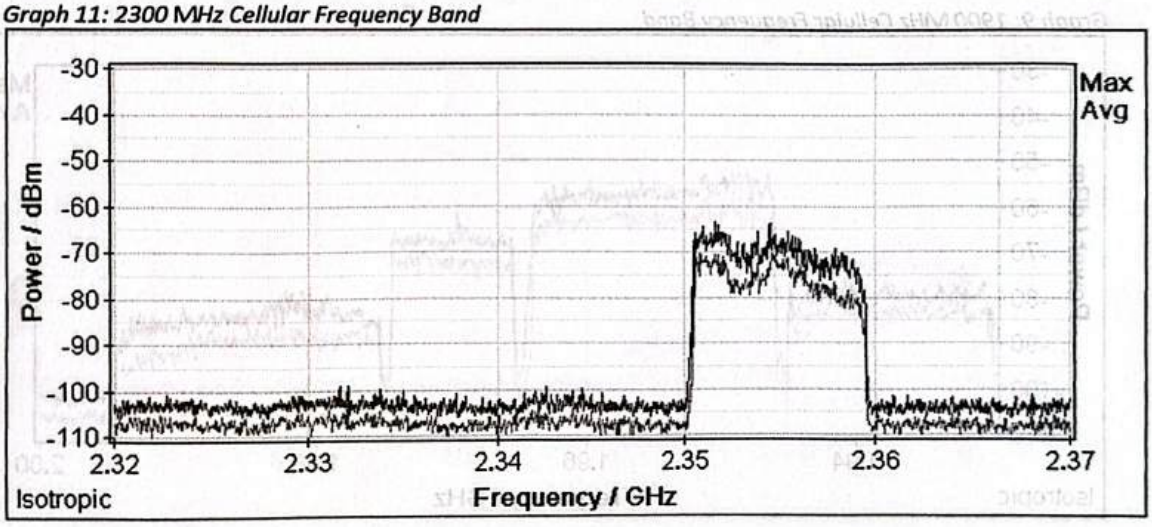
Graph 9: 1900 MHz Cellular Frequency Band



Graph 10: 2100 MHz Cellular Frequency Band

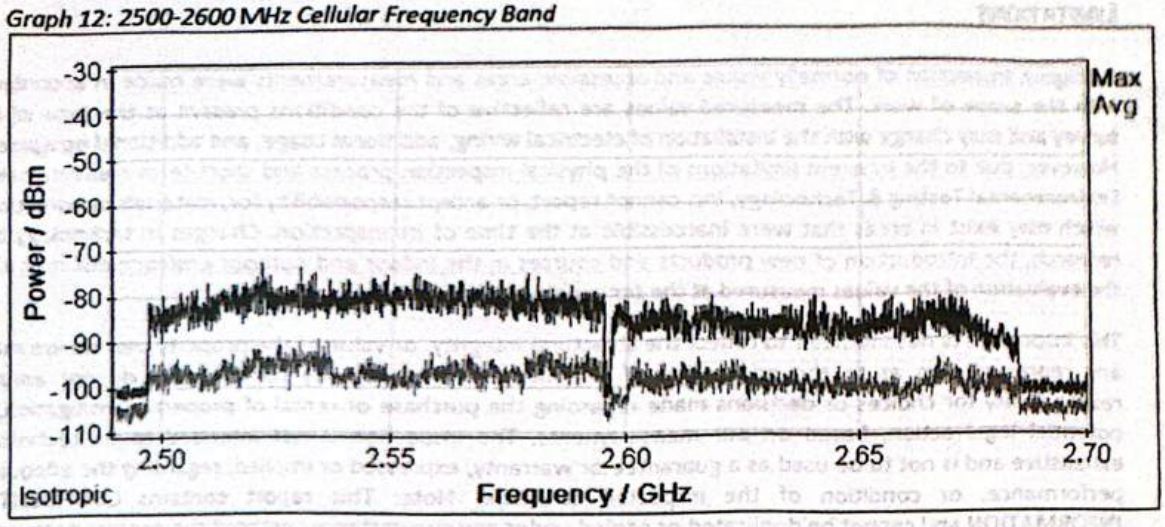


Graph 11: 2300 MHz Cellular Frequency Band

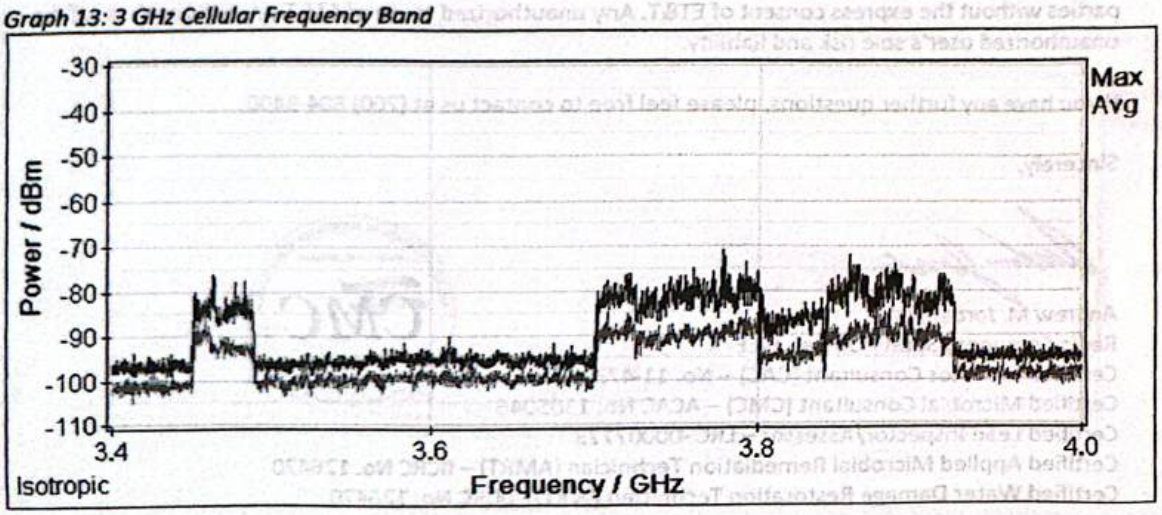


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Graph 12: 2500-2600 MHz Cellular Frequency Band



Graph 13: 3 GHz Cellular Frequency Band



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LIMITATIONS

A diligent inspection of normally visible and accessible areas and measurements were made in accordance with the scope of work. The measured values are reflective of the conditions present at the time of the survey and may change with the installation of electrical wiring, additional usage, and additional equipment. However, due to the inherent limitations of the physical inspection process and short-term measurements, Environmental Testing & Technology, Inc. cannot report, or accept responsibility for, materials or conditions, which may exist in areas that were inaccessible at the time of its inspection. Changes in technology and research, the introduction of new products and sources in the indoor and outdoor environment may alter the evaluation of the values measured at the time of the survey.

This inspection is not intended to reflect the structural integrity, or value of the property, nor do we make any representation as to the advisability of purchase or the suitability for use. We do not assume responsibility for choices or decisions made regarding the purchase or rental of properties, mitigation, or potential legal action, based on our measurements. The inspection is not intended to be technically exhaustive and is not to be used as a guarantee or warranty, expressed or implied, regarding the adequacy, performance, or condition of the inspected structure. Note: This report contains CONFIDENTIAL INFORMATION and cannot be duplicated or copied under any circumstances without the express permission of Environmental Testing & Technology, Inc. (ET&T) or the client. This report may not be relied upon by third parties without the express consent of ET&T. Any unauthorized reuse of ET&T's reports or data will be at the unauthorized user's sole risk and liability.

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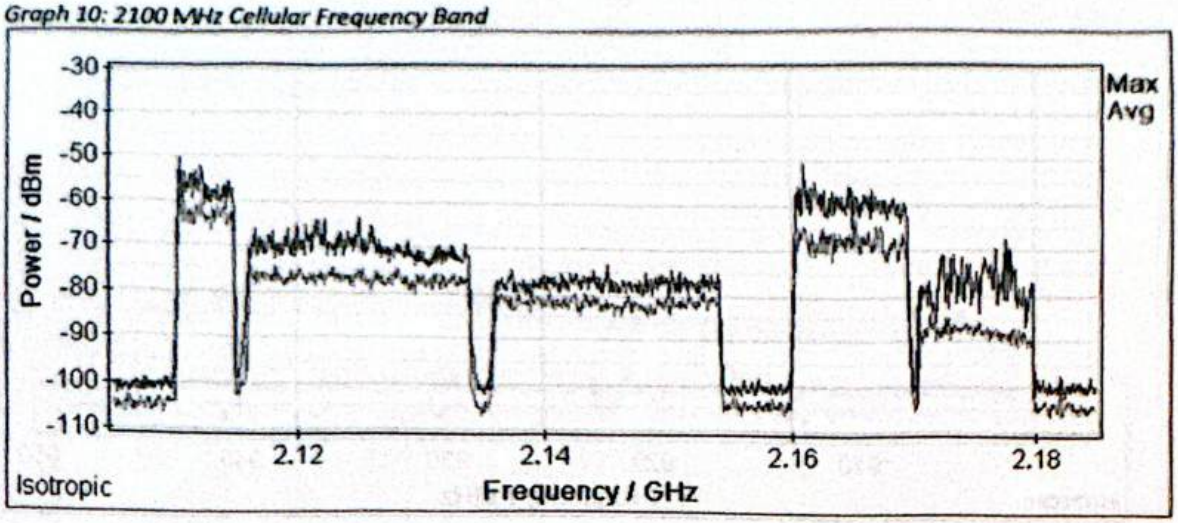
Sincerely,

Andrew M. Jordan, BA
Radio Frequency Safety Office - IEEE
Certified Asbestos Consultant (CAC) – No. 11-4739
Certified Microbial Consultant (CMC) – ACAC No. 1305046
Certified Lead Inspector/Assessor – LRC -00007773
Certified Applied Microbial Remediation Technician (AMRT) – IICRC No. 126470
Certified Water Damage Restoration Technician (WRT) - IICRC No. 126470

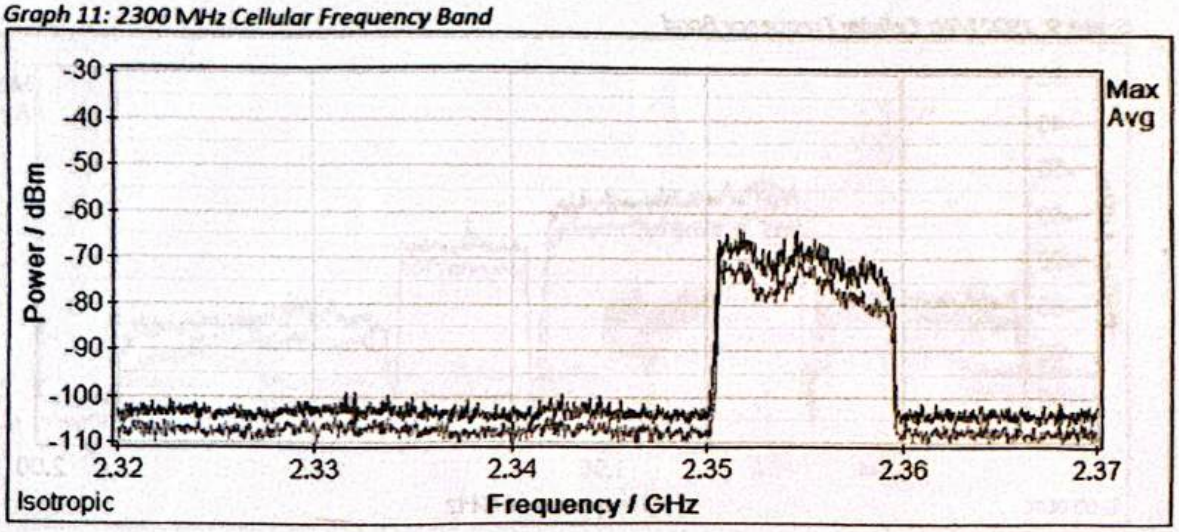
Brad E. Murico, Bachelor's of Science in Biology
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Certified Applied Microbial Remediation Technician (AMRT) – IICRC No. 219221
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AHERA Building Inspector – Certificate No. 0420BI187204

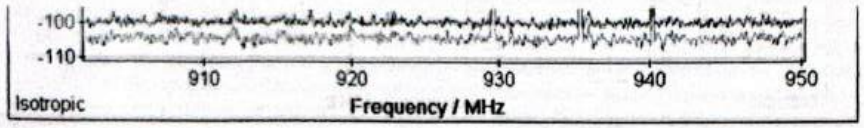
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Graph 10: 2100 MHz Cellular Frequency Band

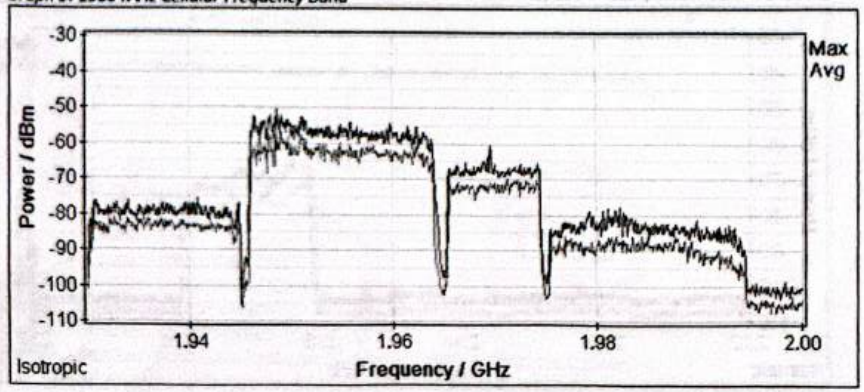


Graph 11: 2300 MHz Cellular Frequency Band



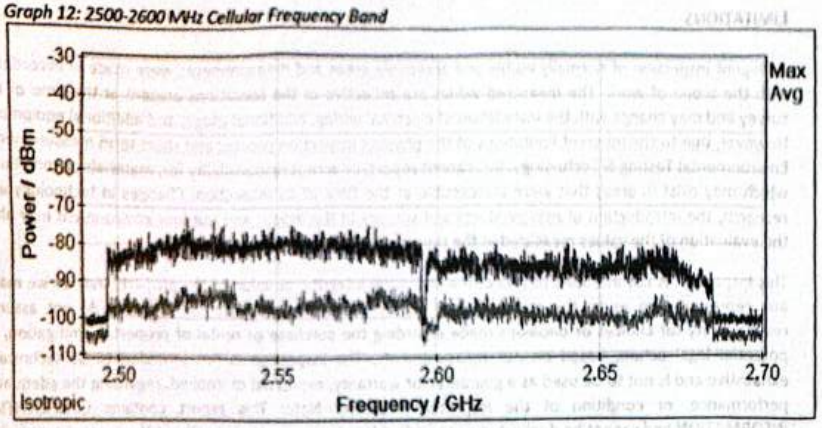


Graph 9: 1900 MHz Cellular Frequency Band

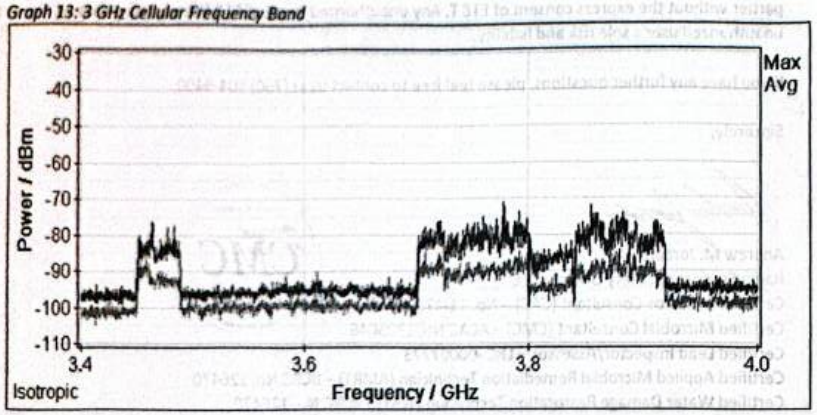


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Graph 12: 2500-2600 MHz Cellular Frequency Band



Graph 13: 3 GHz Cellular Frequency Band



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This inspection is not intended to reflect the structural integrity, or value of the property, nor do we make any representation as to the advisability of purchase or the suitability for use. We do not assume responsibility for choices or decisions made regarding the purchase or rental of properties, mitigation, or potential legal action, based on our measurements. The inspection is not intended to be technically exhaustive and is not to be used as a guarantee or warranty, expressed or implied, regarding the adequacy, performance, or condition of the inspected structure. Note: This report contains CONFIDENTIAL INFORMATION and cannot be duplicated or copied under any circumstances without the express permission of Environmental Testing & Technology, Inc. (ET&T) or the client. This report may not be relied upon by third parties without the express consent of ET&T. Any unauthorized reuse of ET&T's reports or data will be at the unauthorized user's sole risk and liability.

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