

## Chris Harvey

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**From:** Chris Harvey  
**Sent:** Friday, June 01, 2001 9:07 AM  
**To:** Liming Xu; Greg Czumak; Marianne Bosley  
**Subject:** RE: Celletra

I agree with Liming's comments.

1) The Bandedge compliance does not apply to this device which is an amplifier, because it is dependant on the BTS that it is connected to.

2) The Radiated Spurious Emissions are listed in the report as being >30dB below the limit and thus not reported. I verified on the datasheet that this test was performed with no measurable emissions. No further testing is necessary.

3) we will get the customer to modify the manual in accordance with discussions between Liming and Israel.

This application is ready to Grant.

-----Original Message-----

**From:** Liming Xu  
**Sent:** Thursday, May 31, 2001 9:26 PM  
**To:** Chris Harvey; Greg Czumak; Marianne Bosley  
**Subject:** RE: Celletra

Please my answer follow each questions

-----Original Message-----

**From:** Marianne Bosley  
**Sent:** Thursday, May 31, 2001 4:47 PM  
**To:** Liming Xu  
**Subject:** FW: Celletra

Here it is Liming, Greg said he would be back to reviewing around 9PM. his phone number is 610-380-1857.

*Marianne T. Bosley*  
EMC Administrator  
410-354-3300, ext. 412

-----Original Message-----

**From:** Fr. Gregory Czumak [SMTP:Gregory.Czumak@verizon.net]  
**Sent:** Thursday, May 31, 2001 4:12 PM  
**To:** Marianne Bosley; charvey@metlabs.com  
**Subject:** Re: Celletra

Technical review complete- RT questions below. Checklists copied below RT questions, and also attached.

RT questions:

1. The output plots indicate noncompliance at the bandedge if tuned to a bandedge channel, however, no video averaging was employed, as is permitted for CDMA emissions. Please submit output plots using video averaging in order to demonstrate bandedge compliance.

Answer: Please notice this is an amplifier ( or signal repeater not a BTS).  
90% of amplifiers do not have bandedge channel frequency assignment,  
So, we have nothing to test on the bandedge channel emissions ( so as this project).  
10% of amplifiers do have bandedge channel frequency assignment to associate with

specified BTS, only this case we need to test emissions on the bandedge channel frequency.

2. Please submit radiated spurious emissions.

Answer: We ( Chris, you and me) discussed this issue several times, we do not submit radiated spur emissions for Pt.24 report ( please reff to page 4 statement which was you pepared).

we do submit radiated spur emissions for Pt.15 report  
Please let me know if you have new idear for this issue.

3. The technical information contains an apparent discrepancy. The active antenna gain is listed as 13 dBi, so, in conjunction with a conducted output power of 33 dBm, the EIRP would be 46 dBm, or 40W. However, the technical description goes to list the EIRP as 53 dBm, or 200 W. Please clarify.

Answer: I will forward this issue to the client again, because I discussed this issue with client on 5/17/01 they said they will correct this on the manual.

### Certification Checklist For Licensed Transmitters

Applicant's Name: Celletra Test Firm: MET Labs

FCC ID: PNQCBPABMONGXNA55 EA #

Equipment Functional Description: PCS Repeater Equipment Class  
Correct (Y / N) PCB

### Administrative Information

Check off:

- a. Associated Pending Application? (Y/N) No
- b. Confidentiality Requested? (Y / N) Yes Letter with details included? (Y/N) Yes
- c. Statement / letter supplied for special requirements or inter-agency coordination?  
No Date of letter

### Technical Information

(To make the Grant line entry)

Enter:

- a. Rule Parts 24E
- b. Frequency Range 1930-1990
- c. Power Output 2.0 W conducted, EIRP = ?   
(Levels - variable or switched?)   
Antenna connector or integral antenna integral
- d. Frequency Tolerance Rating n/a (Repeater)

e. Emissions \_\_\_ Authorized for use with F9W  
emissions \_\_\_\_\_  
Necessary Bandwidth Values Justified? (Y/N) \_n/a\_\_\_\_\_  
Emission Types Justified? (Y/N) \_\_n/a\_\_\_\_\_

#### Descriptive Information (Section 2.1033(c)(1))

Check off:

- a. Instruction Manual \_\_\_ Yes \_\_\_\_\_
- b. DC Voltages and Currents \_\_\_ yes \_\_\_\_\_
- c. Tune-up Procedure \_\_\_ yes \_\_\_\_\_
- d. Circuit diagram / Block Diagram Yes \_\_\_\_\_
- e. Photographs: Internal \_\_\_ Yes \_\_\_ External \_\_\_ Yes \_\_\_

#### Technical Report (Sections 2.1046 thru 2.1057)

Check off and compare with Radio Service Rule requirements:

- a. Power output: ERP or Conducted \_\_\_ 2 W conducted, EIRP = ? \_\_\_\_\_
- b. Audio Frequency Response M= \_\_\_ n/a \_\_\_\_\_
- c. Modulation Limiting D= \_\_\_ n/a \_\_\_\_\_
- d. Audio Low Pass Filter Response Plot \_n/a\_\_\_\_\_
- e. Transient Frequency Response (Part 90.214) \_ n/a \_\_\_\_\_ / (Attack time for Part 95 CB) \_  
n/a \_\_\_\_\_
- f. Occupied Bandwidth plots for each emission? (Y/N) \_Y\_\_\_\_\_ (VBW & ResBW = \_\_\_30  
\_\_\_\_\_KHz)  
Properly Modulated (Y / N) \_\_Y\_\_\_\_\_
- g. Conducted Spurious \_\_\_yes\_\_\_\_\_
- h. Radiated Spurious \_\_\_NO\_\_\_\_\_
- i. Frequency Stability vs. Voltage (+/- 15% or Battery Endpoint) \_n/a\_\_\_\_\_
- j. Frequency Stability vs. Temperature (-30 to + 50 C) \_\_n/a\_\_\_\_\_

Notes

Subpart (E) - Broadband PCS

Is the device operating in the following operating frequency band?  
\_\_yes\_\_ Blocks from 1850 - 1990 MHz

Are the following General Technical Requirements met?

\_ yes \_\_\_\_ Section 24.232 - Power output (EIRP)  
\_n/a\_\_\_\_ Section 24.235 - Frequency Stability  
? \_\_\_\_ Section 24.238 - Emission limits

Are the following Special Requirements met?

\_\_n/a\_\_ MPE or SAR evaluation required for portable and mobile units per  
Sections 2.1091 and 2.1093.

Special Interpretations:

Power output for units with built-in antenna to be listed as EIRP.

Otherwise same as Cellular

Marianne Bosley wrote:

Just disregard anything you got there. I resent ALL documents to your mailbox here.

Marianne T. Bosley  
EMC Administrator  
410-354-3300, ext. 412

> -----Original Message-----

> From: Fr. Gregory Czumak [SMTP:Gregory.Czumak@verizon.net]

> Sent: Wednesday, May 30, 2001 10:22 AM

> To: Marianne Bosley

> Subject: Re: Celletra

>

> Hi Marianne,

>

> I did receive (here at home) 2 Celletra emails a few minutes ago, with a

> total

> of 7 attachments between them. I don't know why they're getting kicked

> back to

> you as undelivered(?). And, btw, I am able again to get into my metlabs

> inbox-

> Patrick and I worked it out...please thank him for me. I will try to

> begin the

> Celletra app later today, or if not, then tomorrow. I must leave now to  
> visit  
> an ill parishioner, just home from the ICU of the hospital.  
>  
> Gregory  
>  
> Marianne Bosley wrote:  
>  
> > Hi Greg,  
> >  
> > Well, this one is a little more complicated. I've already had two  
> returned  
> > to me - I was trying to break it down. So, Please check your metlab  
> mailbox  
> > - I sent everything there. Things to remember - this is a priority  
> (Chris  
> > promised Friday to have grant that is of course unless something major  
> was  
> > uncovered. ) Also, I sent both Pt. 24 check lists for you to choose  
> which  
> > one applied. Also there is the general licensed transmitter one  
> attached.  
> >  
> > Marianne T. Bosley  
> > EMC Administrator  
> > 410-354-3300, ext. 412  
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