ENGINEERING, Inc. Electro Magnetic Controlled Environment 44366 S. Grimmer Blvd. Fremont, CA 94538-6309 Tel: 510-490-4307 Fax: 510-490-3441



00, 17.35 7, 12 of 12.00.

To: Federal Communications Commission, Mr. Errol Chang

Date 13 SEPT 1999

RE: FCC ID: N3S2001B01, Correspondance Reference No. 9525, Dated 3 Sept 1999.

Dear Mr. Errol Chang,

This letter is intended to correct some erroneous data that you reviewed recently for FCC Part 15 Certification application for E-Codes FCC ID: N3S2001B0l. Your letter stated that the second and third harmonics were measured as being larger than the fundamental and that this was unacceptable. We remeasured the first three harmonic signals including the fundamental and found that the fundamental (303.83 MHz) was the largest signal of all harmonics but was below the specification limit.

The second harmonic (607.68 MHz) fell coincident with the audio frequency of TV station channel 36. We looked at the signal inside of our shielded enclosure and found that at 1 meters distance, the signal was quite small, Figure 1, Second Harmonic. But because our shielded enclosure is not qualified for amplitude measurement, we went outside and reduced the bandwidth and span in order to see the 2nd harmonic through the channel 36 ambient. At a distance of 1/3 meters the 2nd harmonic was barely perceptible Figure 2. Signal outdoors. Next we actually measured the same signal with the Quasi - Peak detector and CISPR bandwidths at a distance of 1/3 meters Figure 3, Unit tested outdoors. The result of this shows that if the signal were at the same level as the ambient measured outdoors at a distance of 1/3 meters then its level would only be 23.1 dBuV/m, a level well below the fundamental and the specification limit.

The third harmonic was remeasured because the original measurement was of a nearby ambient signal. This signal was also well below the fundamental and the specification limit.

We appreciate your pointing out these descrepancies to us and feel that you will agree that based upon these new measurements the EUT is worthy of FCC Certification.

Thank you,

Acting on behalf of E-Code

Stephen A. Sawyer, NCE

President, EMCÉ Engineering, Inc.

(602)569-6670

p.2

Page 1 of 1

Phone 301-362-3025

From:

OET <oetech@fccsun07w.fcc.gov>

To:

ijc1@ecode-rfid.com <jjc1@ecode-rfid.com>

Date:

Friday, September 03, 1999 1:34 PM

Subject: Denial of application

To: John Coulthard, E-Code From: Errol Chang

echang@fcc.gov

FCC Application Processing Branch

Re: FCC ID N3S2001B01

Applicant: Addison Hi-Tech Incorporated Correspondence Reference Number: 9525

731 Confirmation Number: EA95270 Date of Original E-Mail: 09/03/1999

The test report shows that the fundamental frequency of 303.83 MHz measured 30.60 dBuV/m, the first harmonic of 607.65 MHz measured 44.5 dBuV/m and the second harmonic of 911.48 MHz measured 41.1 dBuV/m, all measured at 3 meters. Pursuant to section 15.209 (c), the level of any unwanted emission must not exceed the level of the fundamental and, therefore, the application has been denied.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at www.fcc.gov, Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

FREMONT, CA 94538 44370 S. GRIMMER BLVD EMCE ENGINEERING, INC.

RE-measure on

FCC ID:

PAGE: DATE:

> N3S2001B01 11 SEPT 1999

TEST SPECIMEN PERFORMED FOR: Mobile Identification Tx E-Code

SERIAL NUMBER: MODEL NUMBER: None

None

VERTICAL POLARIZATION

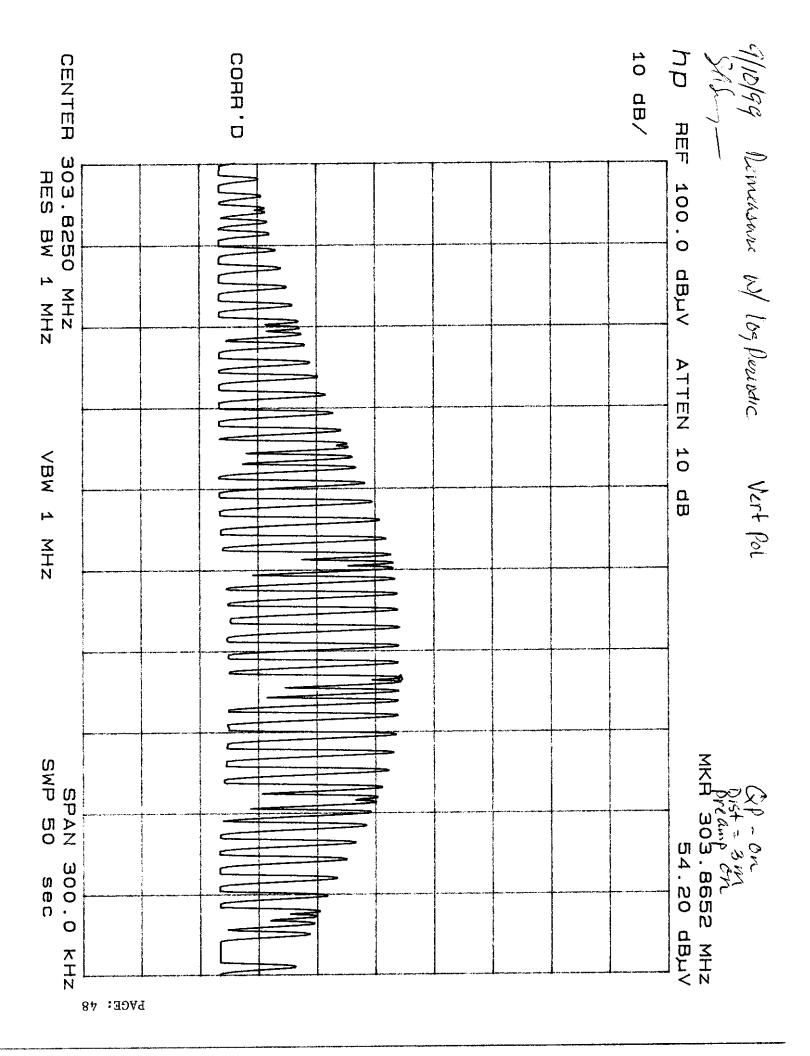
LOCATION:

FINAL FCC-B RADIATED RESULTS (Harmonics):

3010.00	2710.00	2455.00	2124.54	1820.45	1519.12	1215.30	911.48	607.68	303.83	MHz	•	FREQUENCY
27.3	26.8	28.4	28.0	27.5	21.2	21.4	31.5	52.4	54.2	dBuY	READING	ANALYZER
å	∞	óo	∞	∞	∞	ģ	∞	∞	∞	dB	Duty Cycle	DC
13.47	13.06	13.20	12.94	14.60	13.93	13.79	3.80	-21.30	-10.30	dВ	Ant-amp+AT+CL	CF
32.77	31.86	33.60	32.94	34.10	27.13	27.19	27.30	23.10	35.90	dBuV/m	READING	CORRECT
2	ሄ	%	ጆ	2	7	%	Z	8	46	dBuV/m	LIMIT	SPEC
21.23	22.14	20.40	21.06	19.90	26.87	26.81	26.70	22.90	N/A	dВ		MARGIN
1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	CIM	Ant Ht	HEIGHT
0	0	0	0	0	0	0	0	0	0	Degrees	Turntable	ANGLE

2nd harmonic doesn't exist above ambient background level. Fundamental measures 6 dB larger than original measurement reported 30 July 1999.

3rd harmonic is 6 dB lower because original measurement was on an ambient signal.



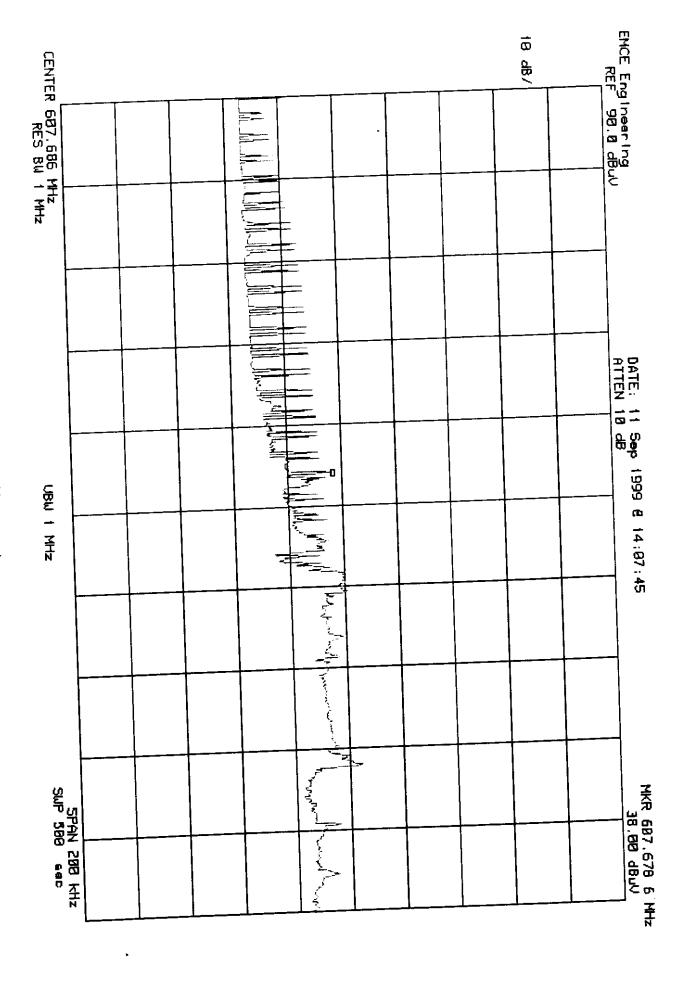


FIGURE 1 2nd Harmonic Trated inside Shielded enclosing to d= 1 meter, QP Det-ON.

