



TRILITHIC

EAS Encoder/Decoder test report

Tests performed on a Trilithic

EasyPlus, Model EASyPLUS-1

Product Detail:

FCC ID: **P4V-EASYPLUS-1**

Equipment type: **EAS Encoder/Decoder**

This report concerns: Original Grant for Certification

FCC Part 11.31, 11.32, 11.33 EAS Encoder/Decoder Equipment Requirements

Tests Performed at:

Trilithic Inc.

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Indianapolis, IN 46235

Phone: (317) 895-3600

Applicant:

Trilithic Inc.

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Test Date(s): (Month-Day-Year)

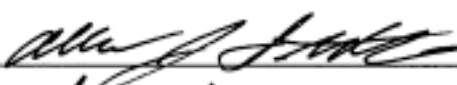
05/17/02, 05/21/02

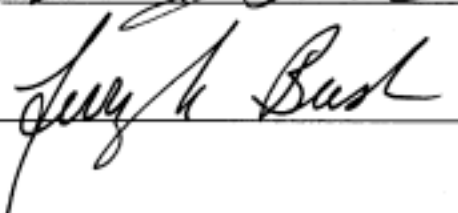
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1 ADMINISTRATIVE DATA

<i>Equipment Under Test:</i> A Trilithic, EasyPlus Model: EASyPLUS-1 Serial Number: 211303 This will be referred to as the EUT in this Report	
<i>Test Date(s): (Month-Day-Year)</i> 05/17/02, 05/21/02	
<i>Test Report Written By:</i> Allen Studer	<i>Test Witnessed By:</i> Hoang Hinh (SSE Manager, Trilithic)
<i>Personnel Responsible for Test:</i> Allen Studer (Trilithic)	<i>Test Report Approved By</i> Terry Bush (President, Trilithic)
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Test Personnel Signature:  Date: 5/23/02

Test Approval Signature:  Date: 5/23/02

2 TEST SUMMARY AND RESULTS

The EUT (Equipment Under Test) is an EasyPlus, Model EASyPLUS-1, manufactured by Trilithic. The detailed test results are presented in a separate section. Hardware Tests were performed under worst-case temperature, humidity, and power conditions as specified in 11.32 (b) and (c). In each case, Encoding and Decoding circuitry was tested for signal generation and detection compliance. Compliance was tested by both exercise software and instrumentation intended for this purpose, and actual encoding and decoding of messages to and from FCC certified Encoders/Decoders.

Tests were also performed to determine the ability of the firmware to handle incoming and outgoing messages, EAS protocol error handling, EAN Override, and Event/Location filtering for automatic retransmission of messages. These tests were not repeated at differing temperature and humidity as the ability of the hardware to function had been tested separately.

2.1 Test Result Summary

Part 11 Hardware Test Results

Temperature (degrees C), Humidity, Power (%)	Operation Performed	Part 11 standard	Test Result
-3 degrees, 96% humidity, 85% Pwr	Encoding	Part 11.32/11.31	Pass
-3 degrees, 96% humidity, 85% Pwr	Decoding	Part 11.33/11.31	Pass
-3 degrees, 96% humidity, 85% Pwr	Tone Generation	Part 11.31/11.32	Pass
-3 degrees, 96% humidity, 115% Pwr	Encoding	Part 11.32/11.31	Pass
-3 degrees, 96% humidity, 115% Pwr	Decoding	Part 11.33/11.31	Pass
-3 degrees, 96% humidity, 115% Pwr	Tone Generation	Part 11.31/11.32	Pass
51 degrees, 5% humidity, 115% Pwr	Encoding	Part 11.32/11.31	Pass
51 degrees, 5% humidity, 115% Pwr	Decoding	Part 11.33/11.31	Pass
51 degrees, 5% humidity, 115% Pwr	Tone Generation	Part 11.31/11.32	Pass
51 degrees, 96% humidity, 85% Pwr	Encoding	Part 11.32/11.31	Pass
51 degrees, 96% humidity, 85% Pwr	Decoding	Part 11.33/11.31	Pass
51 degrees, 96% humidity, 85% Pwr	Tone Generation	Part 11.31/11.32	Pass
51 degrees, 96% humidity, 115% Pwr	Encoding	Part 11.32/11.31	Pass
51 degrees, 96% humidity, 115% Pwr	Decoding	Part 11.33/11.31	Pass
51 degrees, 96% humidity, 115% Pwr	Tone Generation	Part 11.31/11.32	Pass

Note: 85% of rated power = 85 VAC, 115% of rated power = 264.5 VAC

Part 11 Firmware Test Results

Test Performed	Part 11 standard	Test Result
EAS Protocol Filtering, two out of three match	11.31, 11.33	Pass
EAS Protocol Filtering, invalid protocol rejection	11.31, 11.33	Pass
EAS Message Filtering, auto-retransmit	11.31, 11.33	Pass
EAS Message filtering, no retransmit	11.31, 11.33	Pass
EAN Override of Incoming Message	11.33	Pass
EAN Override of Automatic-Reset	11.33	Pass
Automatic Reset (return to monitoring)	11.33	Pass

3 EQUIPMENT UNDER TEST (EUT) DETAILS

3.1 EUT Description

The EUT is an EasyPlus, Model EASyPLUS-1, manufactured by Trilithic. The EUT was in good working condition during the tests, with no known defects.

The Trilithic EASyPLUS (PN: 2010909300) EAS (Emergency Alert System) Encoder/Decoder is a two-U rack mounted control center capable of performing manual or automated EAS messaging for Cable Headends and Hub sites, in accordance with CFR 47 part 11 FCC regulations, and the EAS Cable Handbook.

The EASyPLUS receives EAS messages from up to six audio sources (internal or external), decodes the message, and operates Cable System equipment to replay the message for subscribers. In addition, messages can be originated by the user via local or remote control of the EASyPLUS. The EAS Audio sources for the EASyPLUS include internal AM/FM/NOAA radios and external audio inputs that can be connected to any known EAS audio source. EAS Audio is decoded by the internal AFSK circuitry, it is then sorted and interpreted to determine the type of emergency or test, locations for which the emergency applies, and other information supplied in the EAS Header. If a voice message is contained in the EAS message, it is recorded for possible playback to subscribers. EAS messages then pass through a series of tests to determine if the message matches predefined, user configurable parameters. If these tests pass, EAS activation of the Cable system automatically occurs. To play an EAS message to subscribers, the EASyPLUS activates TTLs and Contact Closures, as well as sending commands via RS-485 and High Data Rate AFSK, it also supplies pertinent video and re-encodes/plays the EAS FSK and recorded audio. The TTLs, Contact Closures, and RS-485 commands activate routing equipment throughout the headend to provide the emergency audio and video to all channels of the cable system.

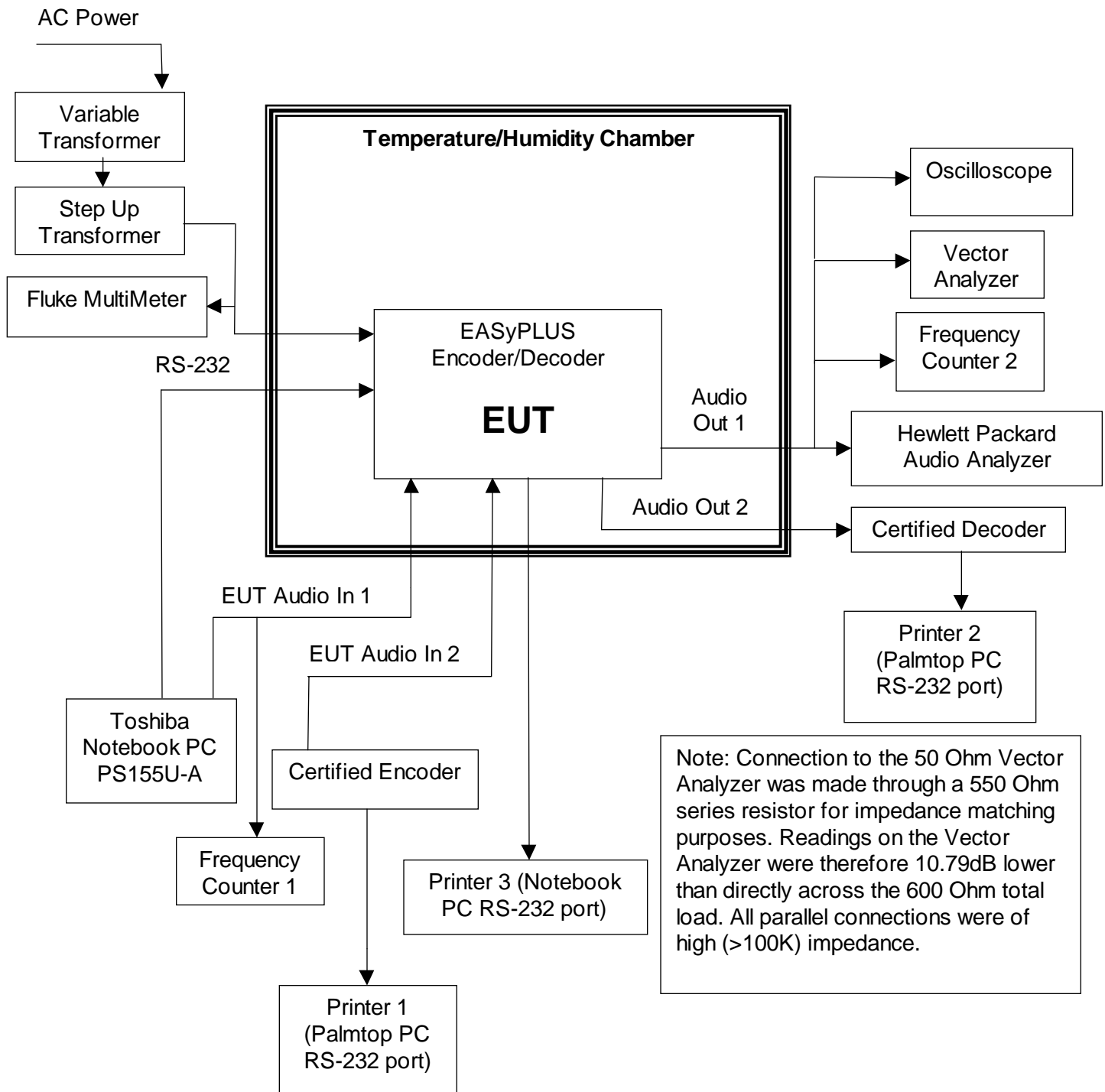
In addition to the EAS messaging capabilities, the EASyPLUS logs all received and transmitted messages to a printer, the LCD display, and it's internal log storage area.

3.2 Related Submittals

Trilithic is not providing any other submittals related to the EUT.

4 TESTED SYSTEM DETAILS

4.1 Tested System Diagram



4.2 FCC Identifiers for support equipment

The FCC ID's for support Encoder/Decoders are:

Encoder – Gorman-Redlich EAS1 FCC ID MVZEAS1

Decoder – Gorman-Redlich EAS1 FCC ID MVZEAS1

4.3 Tested System Configuration

The system was configured for testing in a typical fashion. Wiring was consistent with manufacturer's recommendations. Since the EUT is rack mounted, it was placed in an upright configuration during the tests. The EUT was placed in a Thermotron Temperature/Humidity chamber. All support and test equipment was located outside of the Thermotron chamber.

Power Connections:

Power was connected to the EUT Via a Variable Transformer, and Step-Up Transformer capable of producing voltages above 115%, and below 85% of the rated EUT input voltages. A Calibrated MultiMeter was connected to the supply to verify the voltage settings.

Audio Input Connections:

Audio Input 5 of the EUT was connected to a Toshiba Notebook computer audio output for easy testing of EAS protocol handling. The computer was running software specifically designed to test EAS decoders for handling of proper EAS protocol FSK, and rejection of improper EAS protocol FSK. The computer was connected to a Frequency Counter (Frequency Counter 1) to verify the audio output frequencies.

Audio Input 6 of the EUT was connected to the EAS audio output of an FCC certified EAS Encoder, which had been pre-programmed to generate a valid RMT to the EUT. The Encoder was also connected to a Notebook Computer acting as a serial printer (printer 1).

Audio Output Connections:

Audio Output 1 of the EUT was connected to a bank of test equipment capable of measuring signal level, purity and suppression of undesired signals (Vector Analyzer), Total Harmonic Distortion (HP Audio Analyzer), and Audio Frequency (Frequency Counter 2). The Audio Analyzer and Frequency Counter have a high input impedance, and were wired in parallel to the Vector Analyzer, which presented a 600 Ohm load using a 550 Ohm series resistor (see Impedance Matching Pad calculation). In addition, an Oscilloscope was connected to provide a visual display of the signal. It was not used to perform measurements.

Audio Output 2 of the EUT was connected to the audio input of an FCC certified EAS Decoder and it's associated printer (Printer 2), which were used to verify EAS protocol from the EUT.

Serial Input/Output of the EUT was connected between COM1 on the EUT and COM1 on the Notebook computer. This was used to assist in programming and control of the EUT while in the temperature chamber. When not being used for setup or control, COM1 on the EUT was used for logging, and the Notebook computer was used as a serial printer (Printer 3).

4.4 Tested System Equipment List

Tested System Equipment List

Item	Description	Type*	Manufacturer	Model Number	Serial Number
1	EasyPlus	E	Trilithic	EASyPLUS-1	211303
2	Temperature Chamber	T	Thermotron	SM-16C	31061
3	Notebook PC	P	Toshiba	PS155U-A	X9117277A
4	Variable Transformer	S	Staco	E501VAW	N/A
5	Step-Up Transformer	S	unknown	unknown	24713
6	MultiMeter	T	Fluke	89 IV	AA00143282
7	Frequency Counter 1	S	GoldStar	FC-2130	307113
8	Frequency Counter 2	T	GoldStar	FC-2130	308175
9	EAS Encoder	S	Gorman-Redlich	EAS-1	1031
10	EAS Decoder	S	Gorman-Redlich	EAS-1	1277
11	Audio Analyzer	T	Hewlett Packard	8903B	3514A14845
12	Vector Analyzer	T	Hewlett Packard	89441A	3416A02722
13	Oscilloscope	S	Tektronix	TDS210	B044609
14	Printer 1 (palmtop serial)	P	Toshiba	PA1249U	Y7390677-1
15	Printer 2 (palmtop serial)	S	Toshiba	PA1249U	28549451-1
16	Printer 3 (notebook serial)	S	See Item 3	See Item 3	See Item 3

*Type: E = EUT, P = Peripheral, S = Support Equipment, T=Test Equipment

Notes: All test equipment used for measurement was calibrated within the last 24 months. All test equipment calibration is traceable to national standards. Printers 1, 2, and 3 are actually Windows OS computers, All Encoders and Decoders used here are capable of using a serial printer. For ease of transfer to this Word document, Microsoft Hyperterminal was used to capture these printer logs.

4.5 Special Accessories

No special accessories were used during the tests in order to achieve compliance.

4.6 Equipment Modifications

No modifications were made to the EUT in order to comply with the standards listed in this report.

5 TEST PROCEDURES

5.1 FSK Frequency / Spurious Signal Suppression Tests

1) During the Mark tone Frequency test, the notebook computer was used to command the EUT to produce a Mark tone. Frequency Counter 2 was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The frequency of the tone was directly measured using Frequency Counter 2.

Frequency Counter 2 was set as follows:

Input	= A
Function	= Frequency A
Gate Time	= 1 second
Low Pass	= On
Attenuation	= 10x
Coupling	= AC

2) During the Mark tone Spurious Signal Suppression test, the notebook computer was used to command the EUT to produce a Mark tone. The Vector Analyzer was used to chart frequencies from 0 Hz to 5 KHz, and 0 Hz to 100 KHz. The Vector Analyzer input was set to 50 Ohms, with a 550 Ohm resistor in series with it's input to provide a 600 Ohm total input. Vector Analyzer levels were measured at 10.79 dB below the signal level at the 600 Ohm total load. The EUT Audio Output was lowered to provide a less than 0dBm readout on the Vector Analyzer (less than 10.79 dBm across the 600 Ohm Load). Suppression level of signals outside 200-4000 Hz was recorded and graphed.

The Vector Analyzer was set as follows:

Input	= Channel 1
Range	= 0dB
dB/Div	= 10
Instrument Mode	= Vector
Start Frequency	= 0 Hz
Stop Frequency(s)	= 5 KHz, 100 KHz
Resolution(s)	= 30 Hz, 300 Hz

3) During the Space tone Frequency test, the notebook computer was used to command the EUT to produce a Space tone. Frequency Counter 2 was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The frequency of the tone was directly measured using Frequency Counter 2.

Frequency Counter 2 was set as follows:

Input	= A
Function	= Frequency A
Gate Time	= 1 second
Low Pass	= On
Attenuation	= 10x
Coupling	= AC

4) During the Space tone Spurious Signal Suppression test, the notebook computer was used to command the EUT to produce a Space tone. The Vector Analyzer was used to chart frequencies from 0 Hz to 5 KHz, and 0 Hz to 100 KHz. The Vector Analyzer input was set to 50 Ohms, with a 550 Ohm resistor in series with it's input to provide a 600 Ohm total input. Vector Analyzer levels were measured at 10.79 dB below the signal level at the 600 Ohm total load. The EUT Audio Output was lowered to provide a less than 0dBm readout on the Vector Analyzer (less than 10.79 dBm across the 600 Ohm Load). Suppression level of signals outside 200-4000 Hz was recorded and graphed.

The Vector Analyzer was set as follows:

Input	=	Channel 1
Range	=	0dB
dB/Div	=	10
Instrument Mode	=	Vector
Start Frequency	=	0 Hz
Stop Frequency(s)	=	5 KHz, 100 KHz
Resolution(s)	=	30 Hz, 300 Hz

5.2 Dual Tone Frequency / THD / Level Tests

1) During the 853 Hz Frequency test, the notebook computer was used to command the EUT to produce an 853 Hz tone. Frequency Counter 2 was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The frequency of the tone was directly measured using Frequency Counter 2.

Frequency Counter 2 was set as follows:

Input	=	A
Function	=	Frequency A
Gate Time	=	1 second
Low Pass	=	On
Attenuation	=	10x
Coupling	=	AC

2) During the 853 Hz Total Harmonic Distortion test, the notebook computer was used to command the EUT to produce an 853 Hz tone. An Audio Analyzer was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The THD of the 853 Hz tone was measured directly from the Audio Analyzer.

The Audio Analyzer was set as follows:

Input	=	High
Input Z switch	=	Float (100 K)
Measurement	=	DISTN
LP Filter	=	No Filter

3) During the 853 Hz Signal Level test, the notebook computer was used to command the EUT to produce a 853 Hz tone. The Vector Analyzer was used to chart frequencies from 0 Hz to 2 KHz. The Vector Analyzer input was set to 50 Ohms, with a 550 Ohm resistor in series with it's input to provide a 600 Ohm total input. Vector Analyzer levels were measured at 10.79 dB below the signal level at the 600 Ohm total load. The EUT Audio Output was lowered to provide a less than 0dBm readout on the Vector Analyzer (less than 10.79 dBm across the 600 Ohm Load). Signal Level of the fundamental frequency (853 Hz) was recorded and graphed.

The Vector Analyzer was set as follows:

Input	= Channel 1
Range	= 0dB
dB/Div	= 10
Instrument Mode	= Vector
Start Frequency	= 0 Hz
Stop Frequency	= 2 KHz
Resolution	= 10 Hz

4) During the 960 Hz Frequency test, the notebook computer was used to command the EUT to produce a 960 Hz tone. Frequency Counter 2 was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The frequency of the tone was directly measured using Frequency Counter 2.

Frequency Counter 2 was set as follows:

Input	= A
Function	= Frequency A
Gate Time	= 1 second
Low Pass	= On
Attenuation	= 10x
Coupling	= AC

5) During the 960 Hz Total Harmonic Distortion test, the notebook computer was used to command the EUT to produce a 960 Hz tone. An Audio Analyzer was connected in parallel to the 600 Ohm load on EUT Audio Out 2. The THD of the 960 Hz tone was measured directly from the Audio Analyzer.

The Audio Analyzer was set as follows:

Input	= High
Input Z switch	= Float (100 K)
Measurement	= DISTN
LP Filter	= No Filter

6) During the 960 Hz Signal Level test, the notebook computer was used to command the EUT to produce a 960 Hz tone. The Vector Analyzer was used to chart frequencies from 0 Hz to 2 KHz. The Vector Analyzer input was set to 50 Ohms, with a 550 Ohm resistor in series with it's input to provide a 600 Ohm total input. Vector Analyzer levels were measured at 10.79 dB below the signal level at the 600 Ohm total load. The EUT Audio Output was lowered to provide a less than 0dBm readout on the Vector Analyzer (less than 10.79 dBm across the 600 Ohm Load). Signal Level of the fundamental frequency (960 Hz) was recorded and graphed.

The Vector Analyzer was set as follows:

Input	= Channel 1
Range	= 0dB
dB/Div	= 10
Instrument Mode	= Vector
Start Frequency	= 0 Hz
Stop Frequency	= 2 KHz

5.3 EAS Messaging Tests

1) The ability to detect EAS FSK, detect Dual Tones, Record Audio, and Transmit EAS FSK was performed using FCC Certified Encoders and Decoders. These devices are listed in the “Tested System Equipment List” according to the function they served during test (Encoder or Decoder).

2) Two tests were performed at each Temperature, Humidity, and Power setting (see test results or test result summary).

- a) A Required Weekly Test (RWT) was sent from the Certified Encoder to the EUT Audio Input 6. The RWT contained only one county. No Attention Tone or Voice Message was used. The EUT filters were set to forward the RWT. Once received, the EUT retransmitted the RWT to the Certified Decoder. The Certified Decoder was set to log, but not retransmit the RWT.

The following records are presented in the “Measurements Taken” section:

- 1) A Transmit Log from the Certified Encoder
- 2) A Receive Log with EAS Protocol Text from the EUT
- 3) A Transmit Log with EAS Protocol Text from the EUT
- 4) A Receive Log with EAS Protocol Text from the Certified Decoder
- 5) A record of the temperature, humidity, and line power for the EUT

- b) A Required Monthly Test (RMT) was sent from the Certified Encoder to the EUT Audio Input 6. The RMT contained 31 counties. An Attention Tone and Voice Message was used. The EUT filters were set to forward the RMT. Once received, the EUT retransmitted the RMT to the Certified Decoder. The Certified Decoder was set to log, but not retransmit the RMT.

The following records are presented in the “Measurements Taken” section:

- 1) A Transmit Log from the Certified Encoder
- 2) A Receive Log with EAS Protocol Text from the EUT
- 3) A Transmit Log with EAS Protocol Text from the EUT
- 4) A Receive Log with EAS Protocol Text from the Certified Decoder
- 5) A record of the temperature, humidity, and line power for the EUT

5.4 EAS Protocol Filtering tests

- 1) In order to properly evaluate the behavior of the EUT to filter incorrect EAS protocol text, it was necessary to create a device capable of generating “bad” EAS messages. Software was written for the notebook computer (Toshiba Notebook PC) specifically to evaluate EAS Decoders. This software takes user input to create valid EAS protocol text then displays it to the user, allowing manual editing of the protocol text to be sent. Once modified (or left valid), the software creates audio wave files (EAS FSK) from the protocol text, and plays them via the computer sound card. Dual Tone and Voice Messages may also be created/sent from the computer.
- 2) The Software allows “tuning” of the wave files to compensate for errors in the computers sound card frequency reference. The computers Audio Out port was connected to the EUTs Audio Input 5 in parallel to a frequency counter (for periodic verification of the sound card output frequencies).
- 3) Being a function of the EUTs firmware, no record of temperature, humidity, or power supply levels was kept during the protocol tests as it is reasonable to assume these would have no effect on firmware functionality.

- 4) Tests related to “two-out-of-three” matches in the EAS FSK were performed using the notebook computer, which has the ability to “glitch” (go to zero volts) the FSK Header on specific bursts, and for a specific amount of time.
 - a) The computer was set to “glitch” the FSK bursts for 15mS (1 FSK Byte) at a random location within the FSK bursts (but not during the preamble).
 - b) Four tests were performed, all of which were RWTs with 1 county. Following is a list of the tests and expected results:

1) Burst 1 corrupted	Result: EUT logs the decoded RWT and EOM
2) Burst 2 corrupted	Result: EUT logs the decoded RWT and EOM
3) Burst 3 corrupted	Result: EUT logs the decoded RWT and EOM
4) Bursts 1 and 3 corrupted	Result: EUT fails to log decoded RWT (logs EOM)
 - c) Resulting data was observed by testing personnel, and verified to meet expectations. Notebook PC and EUT logs are available in the “Measurements Taken” section. Logs from the PC report what errors are being intentionally generated, these lines have been underlined and “bolded” to make them easier to find.
- 5) Tests related to invalid protocol “fields” were conducted using the notebook computer. During these tests, the EAS protocol text was hand edited to make it invalid.
 - a) Each test was performed in pairs, first a valid message was sent (from the computer), then after the protocol text was modified to be invalid, the message was sent again.
 - b) Each time a valid message was sent, the EUT should have logged the message and EOM.
 - c) Each time an invalid message was sent, the EUT should not have logged anything except the EOM.
 - d) All test messages were RWTs with 1 county. The following test (pairs) were performed:
 - 1) “ZCZC” replaced with “CZC”
 - 2) ORG missing
 - 3) Event (EEE) missing
 - 4) Location (PSSCCC) missing
 - 5) Station ID (LLLLLLLL) missing
 - 6) Extra Hyphen after Location (PSSCCC), IE: ...“-018097-+0015”...
 - 7) Station ID (LLLLLLLL) contains a hyphen, IE: ...“-WIBM-PC-“
 - 8) Location (PSSCCC) contains a hyphen, IE: ...“-018-03-”...
 - e) Resulting data was observed by testing personnel, and verified to meet expectations. Notebook PC and EUT logs are available in the “Measurements Taken” section. In the Notebook PC logs, EAS protocol text in the area modified has been underlined and “bolded” to make it easier to find.

5.5 EAS Message Filtering tests

- 1) In order to expedite evaluation of the behavior of the EUT to filter EAS messages, software was written for the notebook computer (Toshiba Notebook PC) specifically to evaluate EAS Decoders. This software takes user input to create valid EAS protocol text then displays it to the user, allowing manual editing of the protocol text to be sent. Once modified (or left valid), the software creates audio wave files (EAS FSK) from the protocol text, and plays them via the computer sound card. Dual Tone and Voice Messages may also be created/sent from the computer.
- 2) The Software allows “tuning” of the wave files to compensate for errors in the computers sound card frequency reference. The computers Audio Out port was connected to the EUTs Audio Input 5 in parallel to a frequency counter (for periodic verification of the sound card output frequencies).
- 3) Being a function of the EUTs firmware, no record of temperature, humidity, or power supply levels was kept during the protocol tests as it is reasonable to assume these would have no effect on firmware functionality.

- 4) During the tests, the EUT was configured to automatically retransmit the EAN, EAT, NIC, NPT, RMT, CEM, EVI, and all Weather Warnings.
- 5) During the tests, the EUT was configured to log, but not retransmit the ADR, DMO, RWT, and all Weather Watches and Statements.
- 6) All messages except the RWT contained an 8 second Attention (Dual) tone, as well as a voice message. Voice message length varied from 3 seconds to 4 minutes 45 seconds.
- 7) In order to pass the tests, messages configured to be retransmitted were observed to be transmitted by the EUT, including the voice message. Messages not configured for retransmission were observed to be received, but not retransmitted. The EVI and TSW were sent with counties that the EUT did not have selected for retransmission.
- 8) Resulting data was observed by testing personnel, and verified to meet expectations. Notebook PC, Decoder and EUT logs are available in the "Measurements Taken" section.

Note: Do to limitations in the Notebook Computer hardware, the EAN audio message was sent using the "Send Composed/Edited Header" function of the software, and an audio message greater than 2 minutes was played using WinAmp. Event and Filter Status messages have been underlined and "bolded" in the EUT log to make them easier to find.

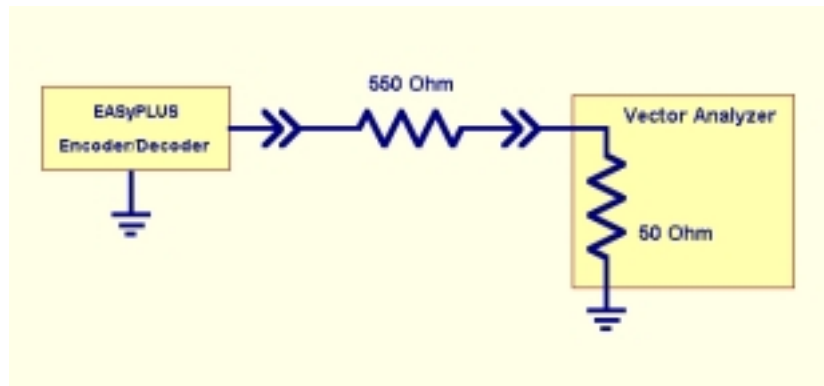
5.6 EAN Override / EAN Timeout Override tests

- 1) The ability of the EUT to detect an EAN and over-ride any messages currently in progress was performed using FCC Certified Encoders and Decoders, as well as the Notebook Computer (as the EAN source). The Certified Encoder and Decoder are listed in the "Tested System Equipment List" according to the function they served during test.
- 2) Being a function of the EUTs firmware, no record of temperature, humidity, or power supply levels was kept during the protocol tests as it is reasonable to assume these would have no effect on firmware functionality.
- 3) Two tests were performed. In each test, a valid, re-transmittable RMT was sent to the EUT. The RMT was interrupted by an EAN while the EUT was processing the incoming RMT.
- 4) The EUT was configured for a 2 minute timeout on all incoming voice messages except those of an EAN.
- 5) In each test, the EAN transmission from the EUT was expected to begin immediately after receipt of the EAN header codes.
Following are the tests performed:
 - a. Incoming RMT on EUT channel 6 interrupted by EAN incoming on channel 5
 - b. Incoming RMT on EUT channel 5 interrupted by EAN incoming on channel 5 (no EOM issued prior to EAN FSK)
- 6) In order to pass, the EUT should begin processing of the EAN immediately upon receipt of the incoming FSK Header, and play out the EAN for it's entire length. Upon receipt of an EOM from channel 1, the EUT should stop patching audio and transmit an EOM.
- 7) Resulting data was observed by testing personnel, and verified to meet expectations. EAS Encoder, Notebook PC Encoding, EUT, and EAS Decoder logs are available in the "Measurements Taken" section. Log items of interest have been underlined and "bolded" to make them easier to find.

5.7 Automatic Reset Test

- 1) The ability of the EUT to “reset to monitoring” was performed using a Notebook Computer as an RMT source. The computers Audio Out port was connected to the EUTs Audio In 5 in parallel to a frequency counter (for periodic verification of the sound card output frequencies).
- 2) The EUT was configured for a 2 minute timeout on all incoming voice messages except those of an EAN.
- 3) An RMT was sent from the computer, including an 8 second Attention (Dual) tone, and a 2 minute 25 second voice message.
- 4) In order to pass this test, the EUT should stop recording the incoming RMT after 2 minutes of voice (2 minutes after ATT Tone) , and return to monitoring for EAS messages.
- 5) Resulting data was observed by testing personnel, and verified to meet expectations. Notebook PC Encoding and EUT logs for this test are available in the “Measurements Taken” section. Log items of interest have been underlined and “bolded” to make them easier to find.

6) Impedance Matching Pad Calculation



47cfr11.32-a-9-iii requires a +8 dBm signal into a 600 Ohm load, this is being measured on a 50 ohm Vector Analyzer, using a 550 Ohm series resistor for impedance matching. The voltage of 1.95 across the 600 Ohm load is proven to meet specifications by the following calculations/formulas.

$$P = EI$$

$$E = IR$$

$$E = IR \text{ transposes to } E/R = I$$

$$\text{therefore } P = E(E/R)$$

$$P = E(E/R) \text{ transposed is } P = E^2/R$$

$$1.95V^2/600 \text{ Ohm} = 6.34mW.$$

$$dBm = 10\text{Log}(P1/P2) \text{ referenced to } 1mW$$

$$10 \times \text{Log} (6.34mW/1mW) = 8.02dBm$$

Given 1.95V across the 550 Ohm series, and 50 Ohm load resistors, the voltage across the 50 Ohm load is 162.5mV, as shown by

$$\text{Series Current (I)} = 1.95V / 600 \text{ Ohm} = 3.25mA$$

$$\text{Voltage across the } 50 \text{ Ohm load} = 3.25mA \times 50 \text{ Ohm} = 162.5mV$$

Thus the power across the 50 Ohm load is 528.1uW ($162.5mV^2 / 50 \text{ Ohm}$) and the dBm measured should be -2.77

$$dBm = 10 \times \text{Log}(528.1uW/1mW) = -2.77dBm \text{ across the } 50 \text{ Ohm load}$$

Since a signal of 8.02 dBm across the 600 Ohm series load produces a -2.77 dBm measurement across the 50 Ohm Analyzer, we must add 10.79dB to all measurements made on the Vector Analyzer to get the dBm level across the full 600 Ohms.

$$8.02dBm \text{ (across } 600 \text{ Ohm)} - 2.77dBm \text{ (at the Analyzer)} = 10.79 \text{ dB}$$

$$\text{for a total measured difference of } 8.02dBm - -2.77 \text{ dBm, or } 10.79 \text{ dB}$$

6 CERTIFICATION

Trilithic Incorporated certifies that all data contained herein was taken under conditions that meet or exceed the requirements of the FCC for EAS Encoders and EAS Decoders. The results relate only to the EUT listed in this document. Any modifications made to the EUT subsequent to the indicated test date will invalidate the data.

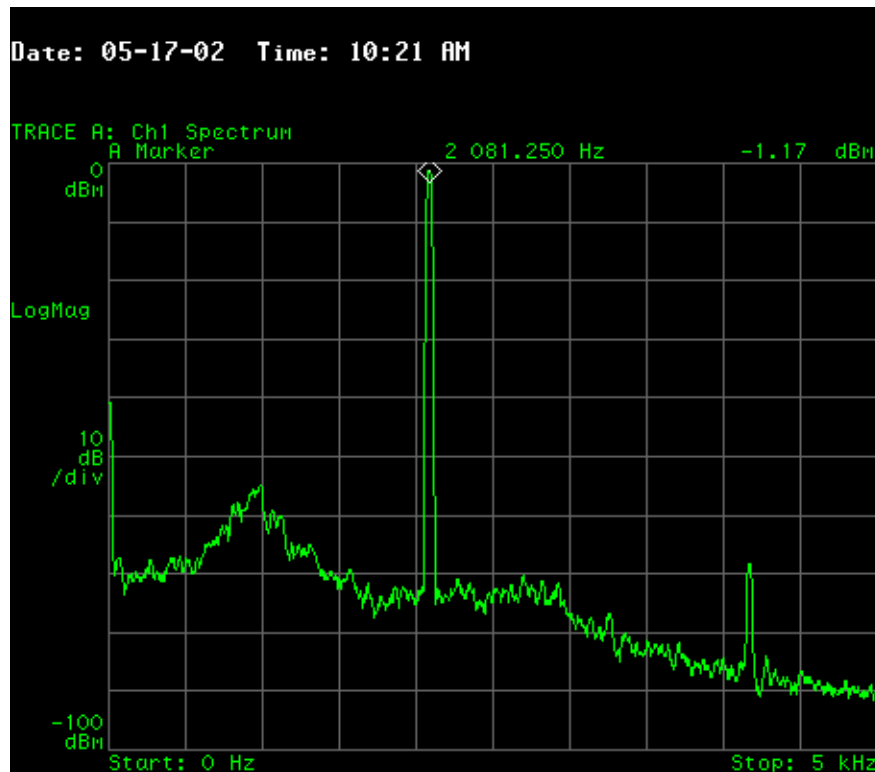
7 MEASUREMENTS TAKEN

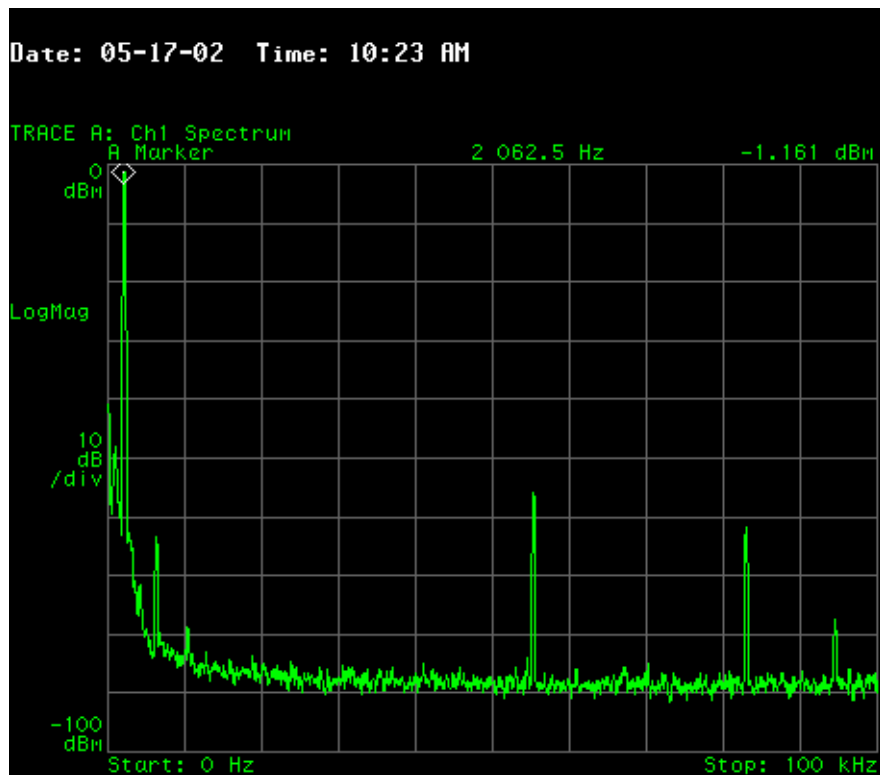
7.1 Low Temperature, High Humidity, Low Power

Chamber Temperature: -3 degrees C
Relative Humidity: 96%
Line Power supplied: 85 VAC

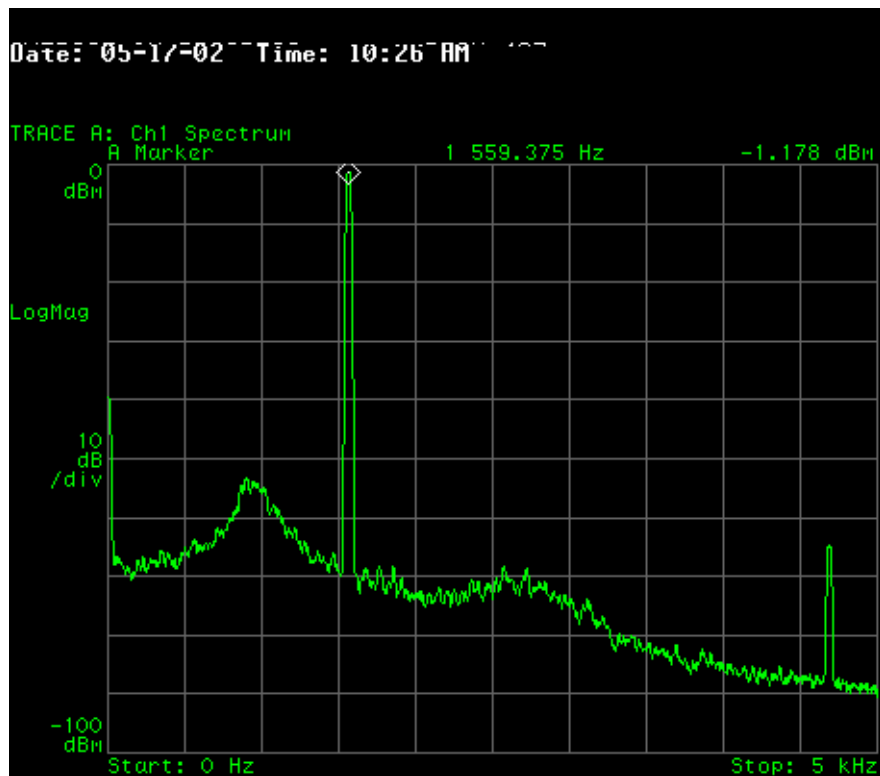
7.1.1 FSK Frequency / Spurious Signal Suppression results

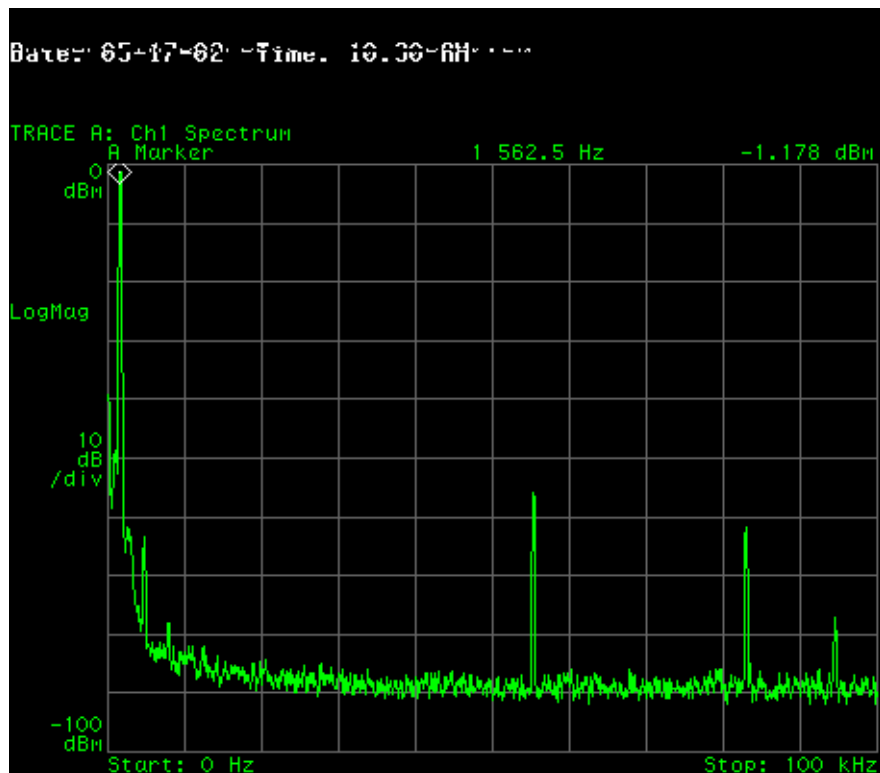
Mark Frequency Measured: 2082.995 Hz
Spurious signal Suppression: >52dB





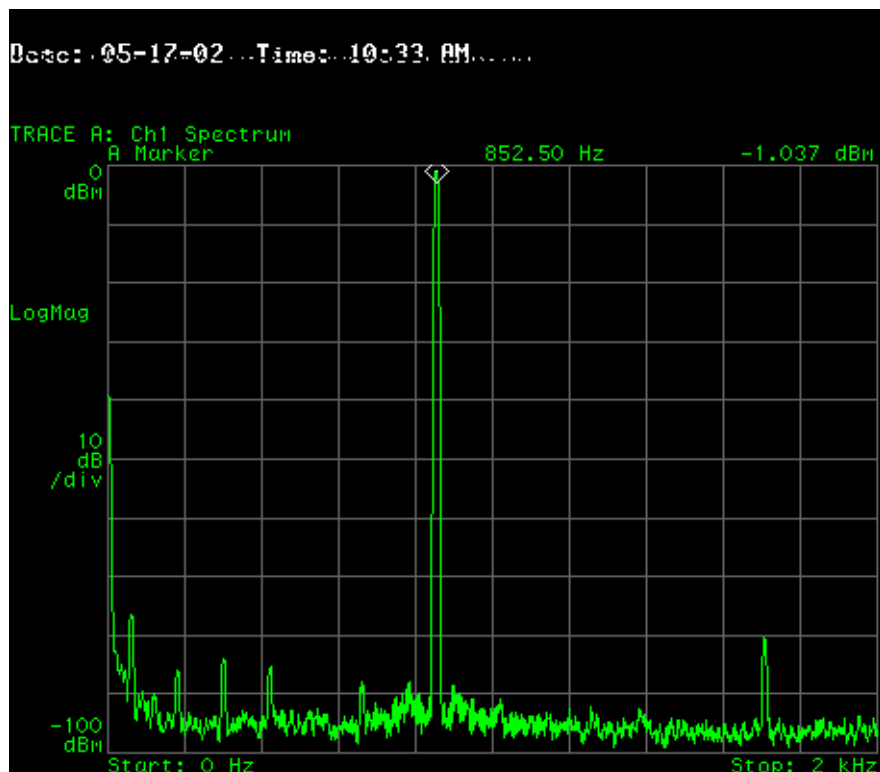
Space Frequency Measured: 1562.249 Hz
Spurious signal Suppression: >51dB



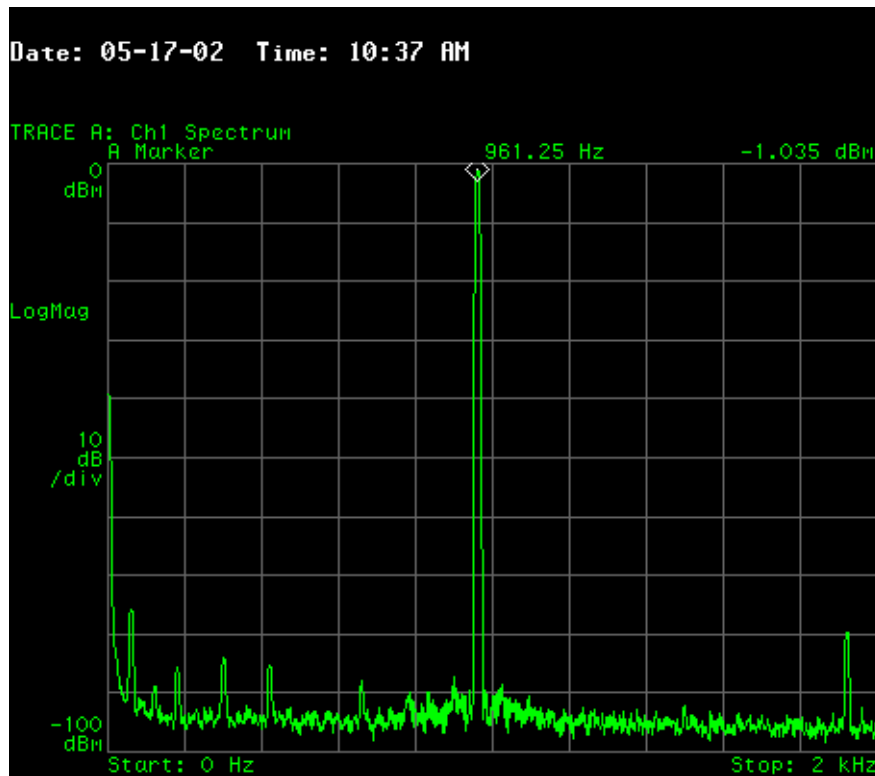


7.1.2 Dual Tone Frequency / THD / Output Level results

853 Hz tone Measured: 853.2686 Hz
 853 Hz tone THD: 0.2060%
 853 Hz tone Signal Level: 9.753 dBm (-1.037 + 10.79dB)



960 Hz tone Measured: 960.2020 Hz
960 Hz tone THD: 0.2073%
960 Hz tone Signal Level: 9.755 dBm (-1.035 + 10.79dB)



7.1.3 EAS Messaging Results, RWT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 10:48:17 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion    IN
UNTIL 11:03 EST
JULIAN DATE: 137 TIME: 10:48 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 10:48:29 EST
```

B) EUT Receive Log

Receive Log 05/17/02 10:48:16
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 10:48:00
Expiration Time: 05/17/02 11:03:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371548-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 11:03:00
EOM Received: 05/17/02 10:48:28

C) EUT Transmit Log

Transmit Log 05/17/02 10:48:28
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 10:48:00
Expiration Time: 05/17/02 11:03:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371548-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 11:03:00

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 10:48:26 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 11:03 EST
JULIAN DATE: 137 TIME: 10:48 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 10:48:37 EST

7.1.4 EAS Messaging Results, RMT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 10:49:08 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn    IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN    Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 11:04 EST
JULIAN DATE: 137 TIME: 10:49 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****

***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 10:50:03 EST
```

B) EUT Receive Log

```
Receive Log 05/17/02 10:49:07
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 10:49:00
Expiration Time: 05/17/02 11:04:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371549-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren
OH, Washington OH, Wayne OH, Williams OH, Wood OH, Wyandot OH, in affect until
05/17/02 11:04:00
Audio Message Length: 022 seconds.
EOM Received: 05/17/02 10:50:01
*****
```

C) EUT Transmit Log

Transmit Log 05/17/02 10:50:02
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 10:49:00
Expiration Time: 05/17/02 11:04:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371549-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 11:04:00
Audio Message Length: 022 seconds.

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 10:50:01 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Jackson OH
Jefferson IN Marion IN
Montgomery IN Newton IN
Noble IN St. Joseph IN
Stark OH Summit OH
Switzerland IN Tippecanoe IN
Trumbull OH Tuscarawas OH
Union OH Van Wert OH
Vermillion IN Vinton OH
Wabash IN Warren OH
Washington OH Wayne OH
Williams OH Wood OH
Wyandot OH
UNTIL 11:04 EST
JULIAN DATE: 137 TIME: 10:49 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 21.0 Seconds
ALERT MESSAGE STORED

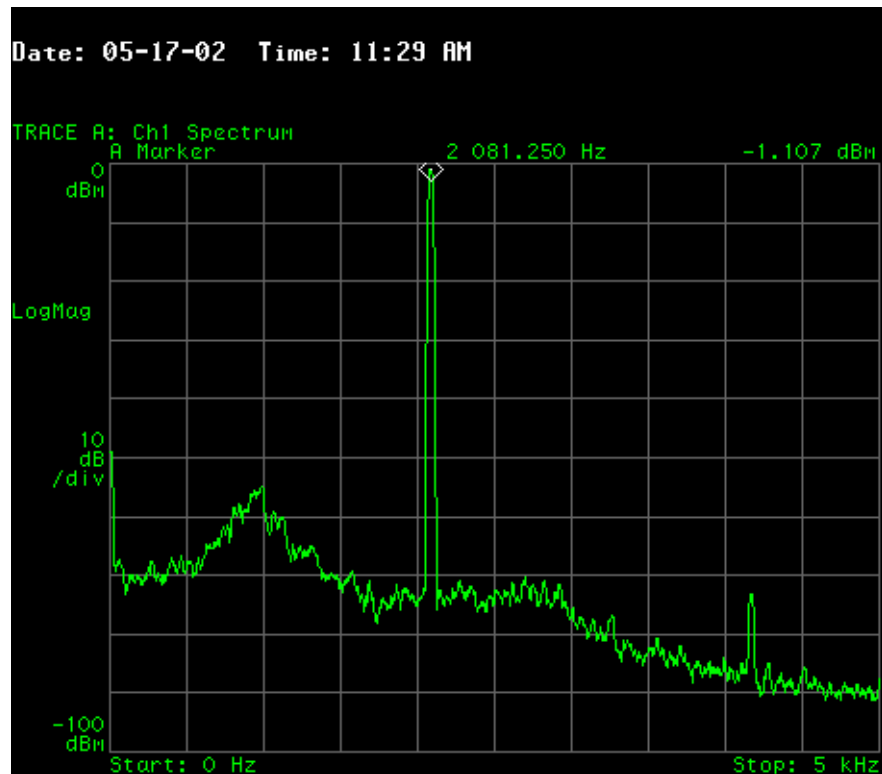
***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 10:50:57 EST

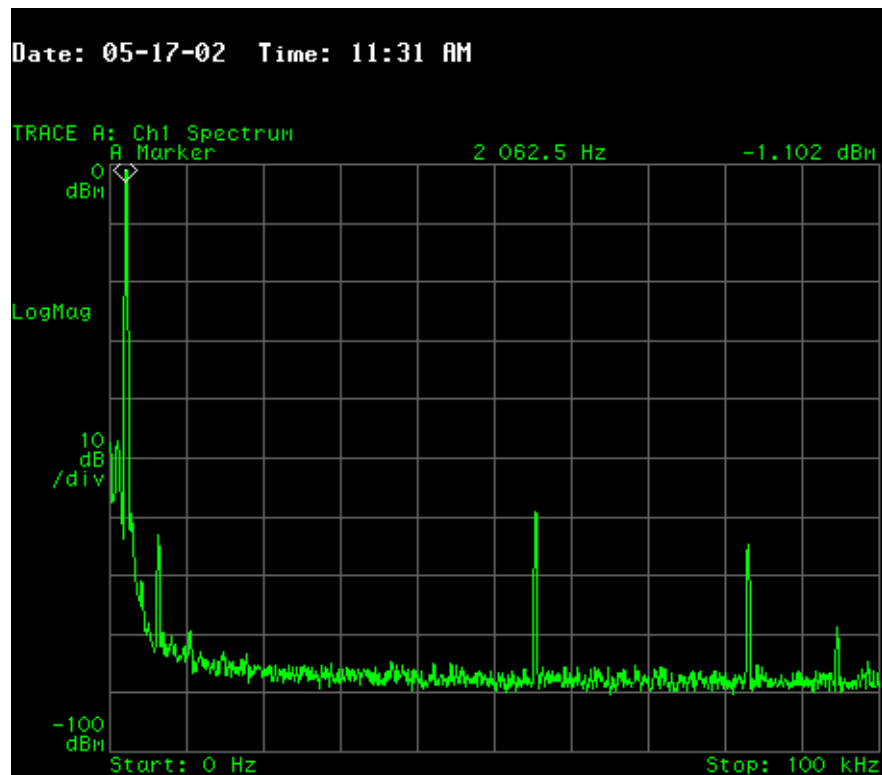
7.2 Low Temperature, High Humidity, High Power

Chamber Temperature: -3 degrees C
Relative Humidity: 96%
Line Power supplied: 265 VAC

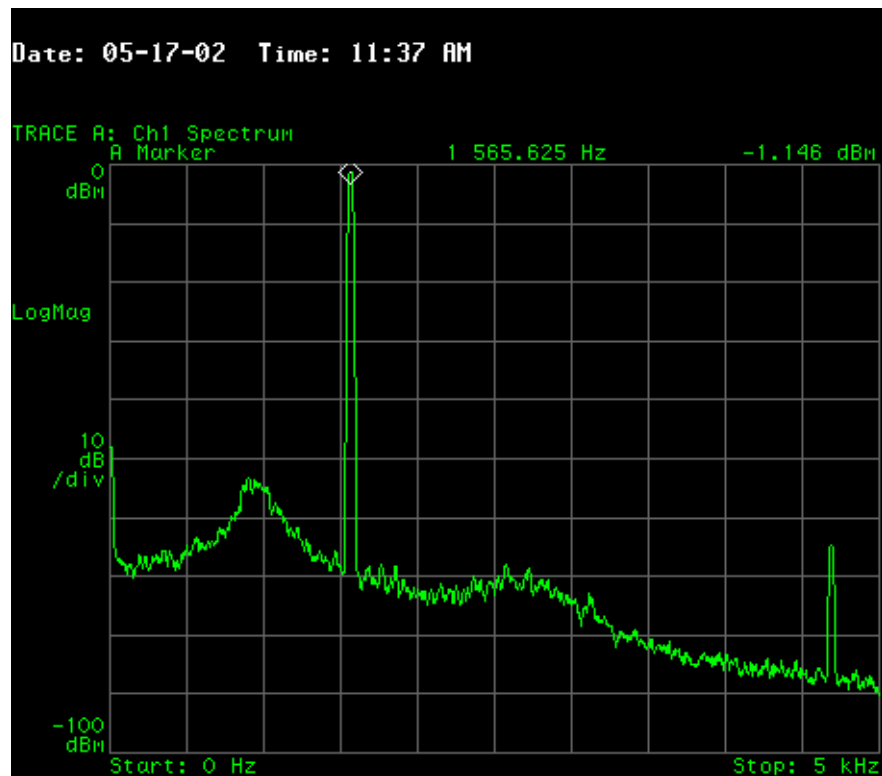
7.2.1 FSK Frequency / Spurious Signal Suppression results

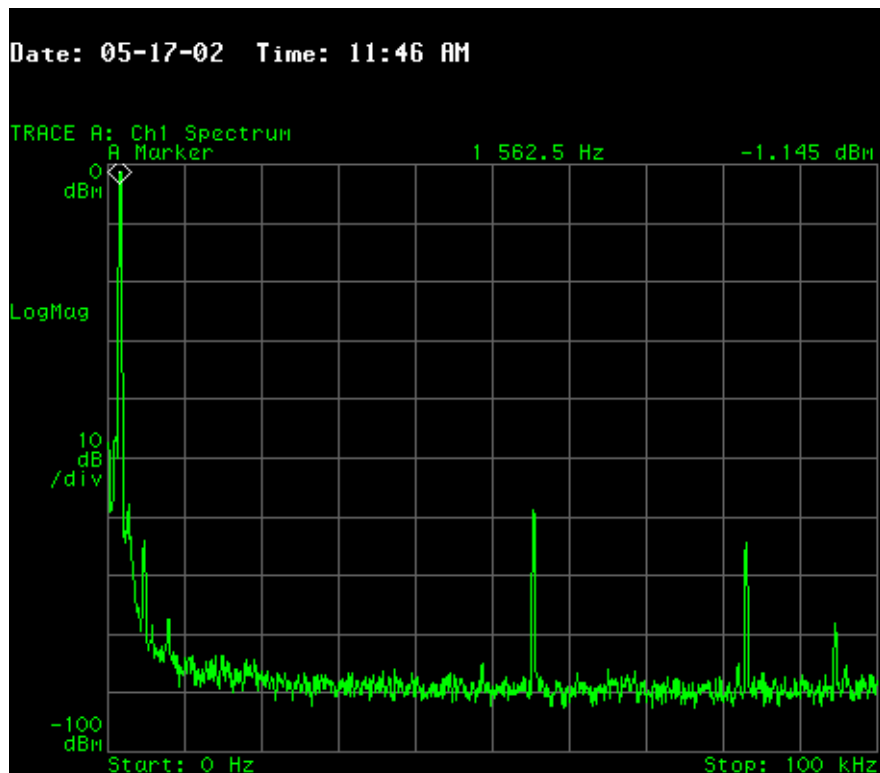
Mark Frequency Measured: 2083.001 Hz
Spurious signal Suppression: >53dB





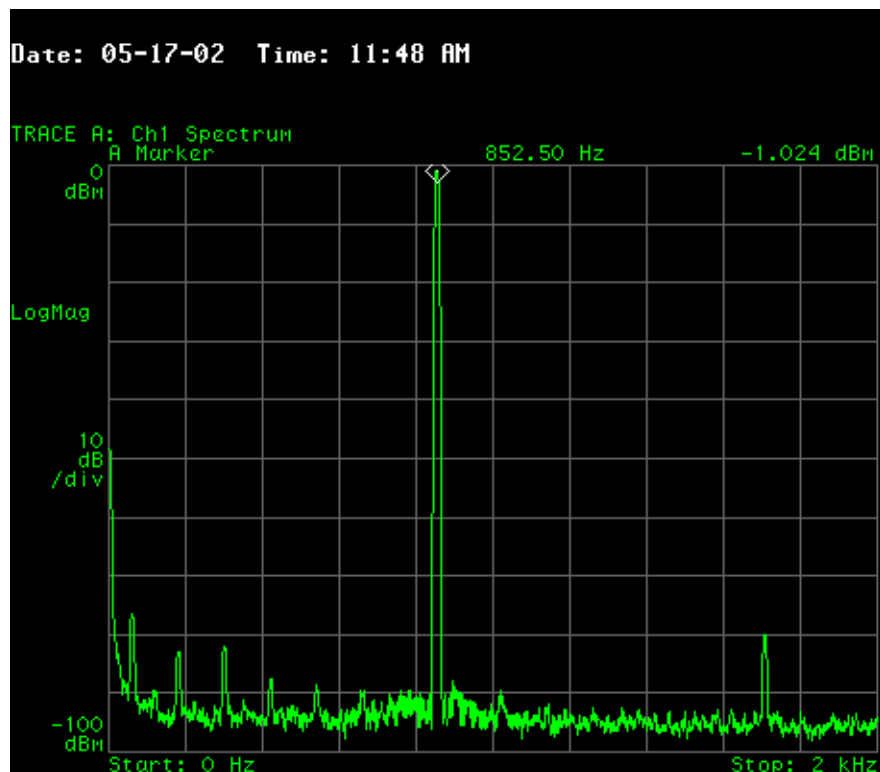
Space Frequency Measured: 1562.250 Hz
Spurious signal Suppression: >51dB



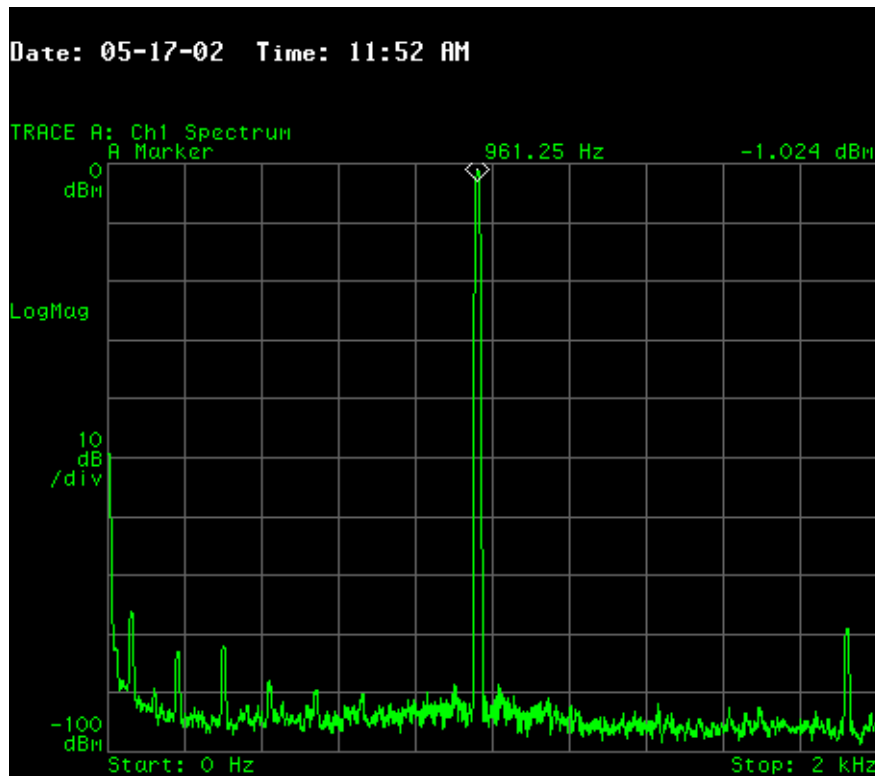


7.2.2 Dual Tone Frequency / THD / Output Level results

853 Hz tone Measured: 853.2686 Hz
 853 Hz tone THD: 0.1580%
 853 Hz tone Signal Level: 9.766 dBm (-1.024 + 10.79dB)



960 Hz tone Measured: 960.2020 Hz
960 Hz tone THD: 0.1605%
960 Hz tone Signal Level: 9.766 dBm (-1.024 + 10.79dB)



7.2.3 EAS Messaging Results, RWT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 11:57:24 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion    IN
UNTIL 12:12 EST
JULIAN DATE: 137 TIME: 11:57 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 11:57:36 EST
```

B) EUT Receive Log

Receive Log 05/17/02 11:57:23
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 11:57:00
Expiration Time: 05/17/02 12:12:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371657-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 12:12:00
EOM Received: 05/17/02 11:57:35

C) EUT Transmit Log

Transmit Log 05/17/02 11:57:35
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 11:57:00
Expiration Time: 05/17/02 12:12:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371657-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 12:12:00

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 11:57:33 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 12:12 EST
JULIAN DATE: 137 TIME: 11:57 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 11:57:44 EST

7.2.4 EAS Messaging Results, RMT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 12:00:30 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn    IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN    Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 12:15 EST
JULIAN DATE: 137 TIME: 12:00 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 12:01:22 EST
```

B) EUT Receive Log

```
Receive Log 05/17/02 12:00:29
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 12:00:00
Expiration Time: 05/17/02 12:15:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371700-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 12:15:00
Audio Message Length: 020 seconds.
EOM Received: 05/17/02 12:01:21
*****
```

C) EUT Transmit Log

Transmit Log 05/17/02 12:00:43
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 12:00:00
Expiration Time: 05/17/02 12:15:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT
-018003-018015-039021-018029-039039-018035-018039-039079-018077-018097-018107-
018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-
039163-018169-039165-039167-039169-039171-039173-039175+0015-1371700-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 12:15:00
Audio Message Length: 020 seconds.

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 12:01:20 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Jackson OH
Jefferson IN Marion IN
Montgomery IN Newton IN
Noble IN St. Joseph IN
Stark OH Summit OH
Switzerland IN Tippecanoe IN
Trumbull OH Tuscarawas OH
Union OH Van Wert OH
Vermillion IN Vinton OH
Wabash IN Warren OH
Washington OH Wayne OH
Williams OH Wood OH
Wyandot OH
UNTIL 12:15 EST
JULIAN DATE: 137 TIME: 12:00 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 18.3 Seconds
ALERT MESSAGE STORED

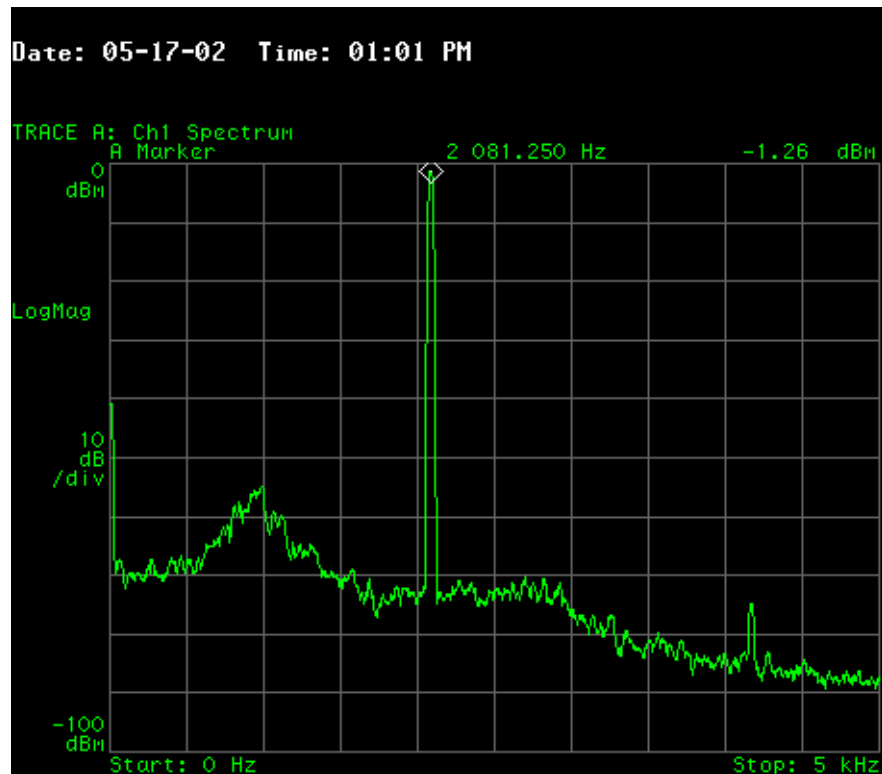
***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 12:02:13 EST

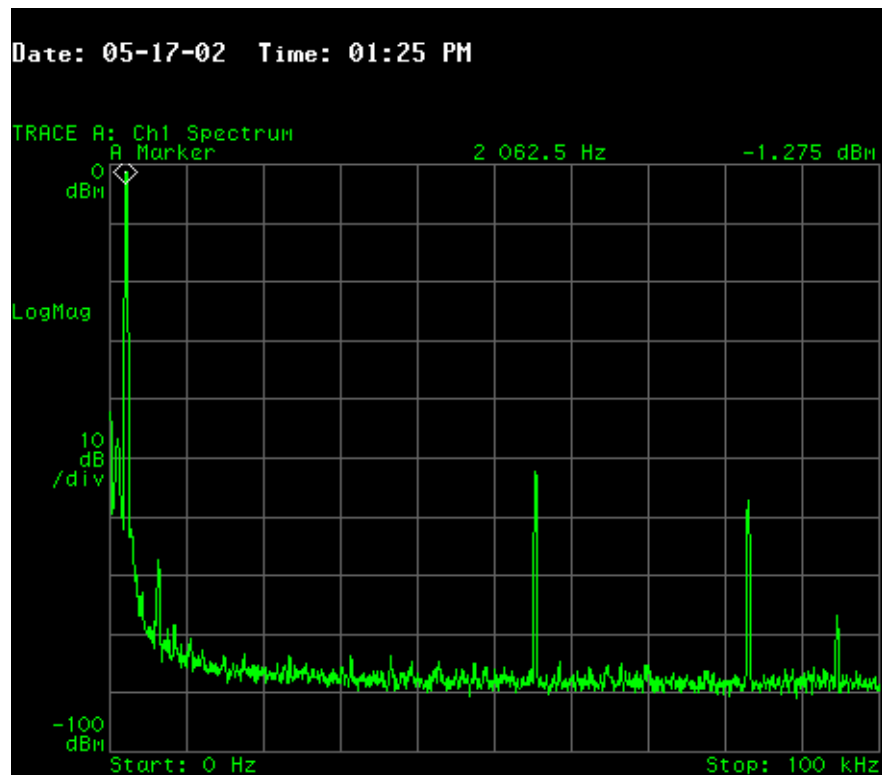
7.3 High Temperature, Low Humidity, High Power

Chamber Temperature: 51 degrees C
Relative Humidity: 5%
Line Power supplied: 265 VAC

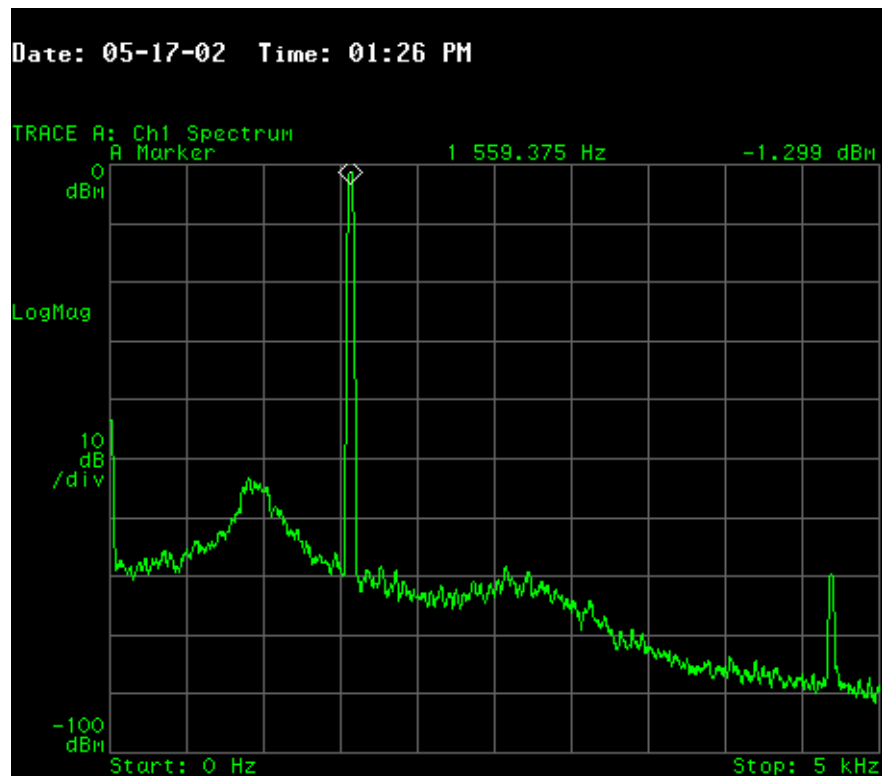
7.3.1 FSK Frequency / Spurious Signal Suppression results

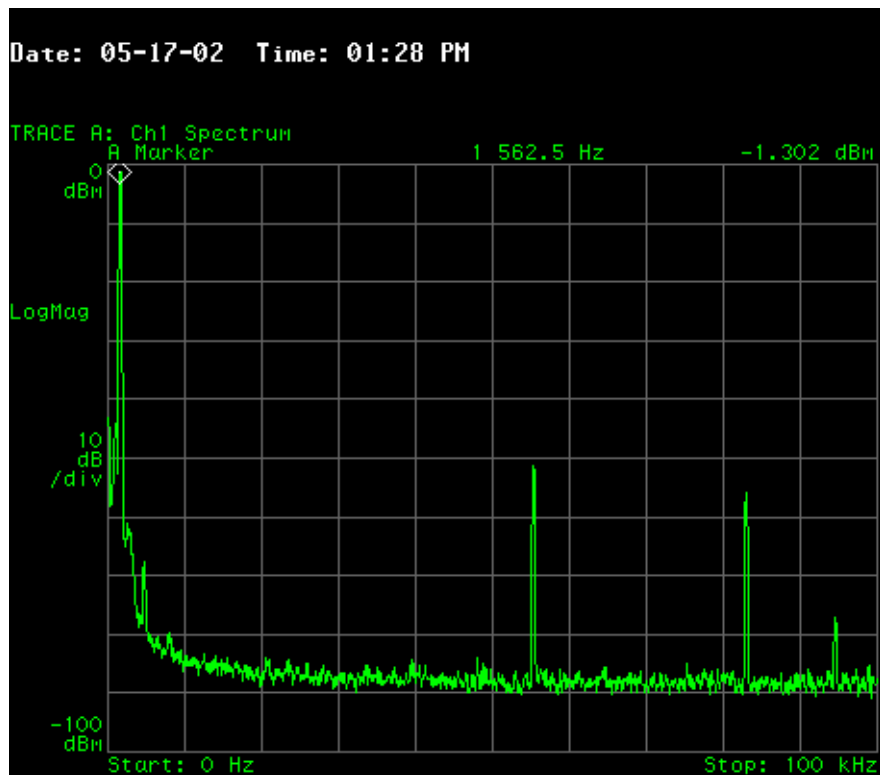
Mark Frequency Measured: 2082.993 Hz
Spurious signal Suppression: >50dB





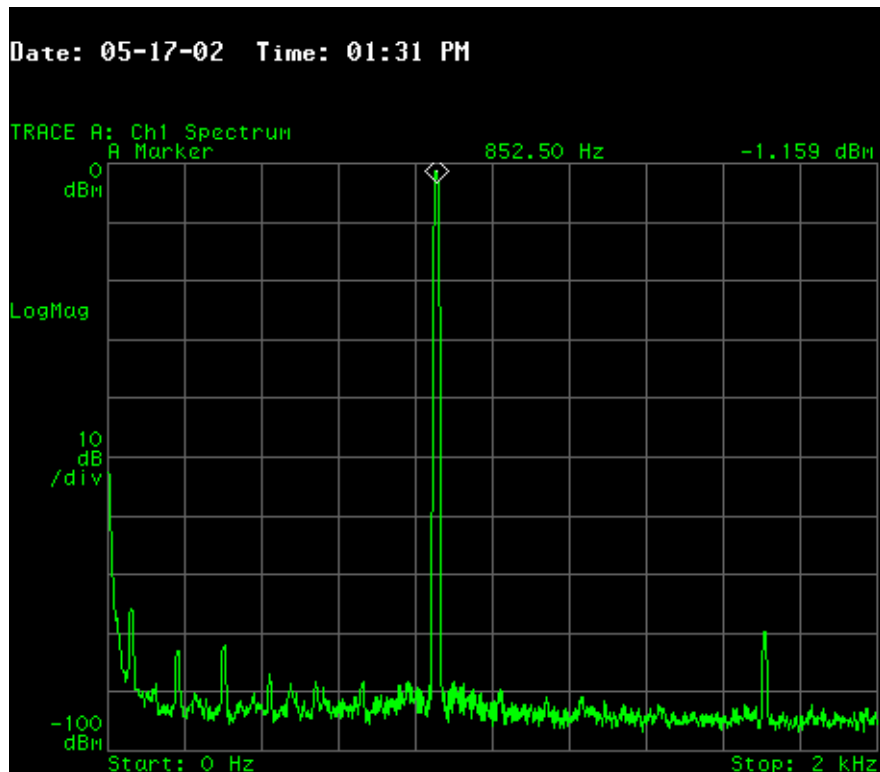
Space Frequency Measured: 1562.247 Hz
Spurious signal Suppression: >49dB



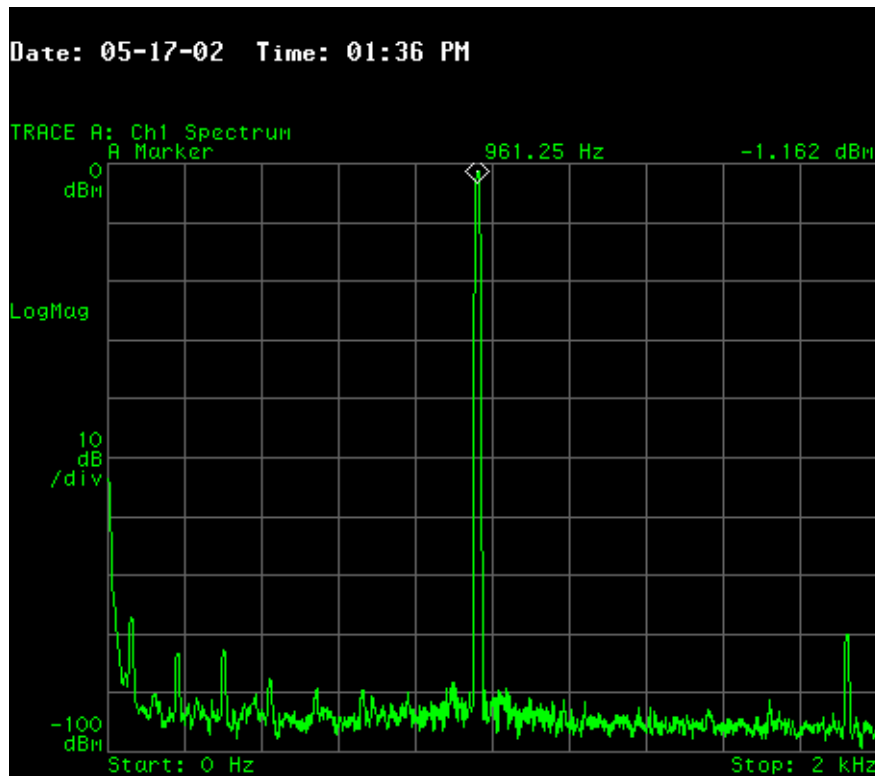


7.3.2 Dual Tone Frequency / THD / Output Level results

853 Hz tone Measured: 853.2660 Hz
 853 Hz tone THD: 0.360%
 853 Hz tone Signal Level: 9.631 dBm (-1.159 + 10.79dB)



960 Hz tone Measured: 960.1997 Hz
960 Hz tone THD: 0.361%
960 Hz tone Signal Level: 9.628 dBm (-1.162 + 10.79dB)



7.3.3 EAS Messaging Results, RWT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 13:41:45 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion    IN
UNTIL 13:56 EST
JULIAN DATE: 137 TIME: 13:41 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 13:41:58 EST
```

B) EUT Receive Log

Receive Log 05/17/02 13:41:44
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 13:41:00
Expiration Time: 05/17/02 13:56:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371841-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 13:56:00
EOM Received: 05/17/02 13:41:57

C) EUT Transmit Log

Transmit Log 05/17/02 13:41:57
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 13:41:00
Expiration Time: 05/17/02 13:56:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371841-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 13:56:00

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 13:41:54 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 13:56 EST
JULIAN DATE: 137 TIME: 13:41 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 13:42:05 EST

7.3.4 EAS Messaging Results, RMT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 13:42:17 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn    IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN    Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 13:57 EST
JULIAN DATE: 137 TIME: 13:42 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 13:43:11 EST
```

B) EUT Receive Log

```
Receive Log 05/17/02 13:42:16
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 13:42:00
Expiration Time: 05/17/02 13:57:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371842-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 13:57:00
Audio Message Length: 022 seconds.
EOM Received: 05/17/02 13:43:10
*****
```

C) EUT Transmit Log

Transmit Log 05/17/02 13:43:10
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 13:42:00
Expiration Time: 05/17/02 13:57:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-1371842-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN, Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN, Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN, Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH, Wyandot OH, in affect until 05/17/02 13:57:00
Audio Message Length: 022 seconds.

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 13:43:09 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Jackson OH
Jefferson IN Marion IN
Montgomery IN Newton IN
Noble IN St. Joseph IN
Stark OH Summit OH
Switzerland IN Tippecanoe IN
Trumbull OH Tuscarawas OH
Union OH Van Wert OH
Vermillion IN Vinton OH
Wabash IN Warren OH
Washington OH Wayne OH
Williams OH Wood OH
Wyandot OH
UNTIL 13:57 EST
JULIAN DATE: 137 TIME: 13:42 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 21.4 Seconds
ALERT MESSAGE STORED

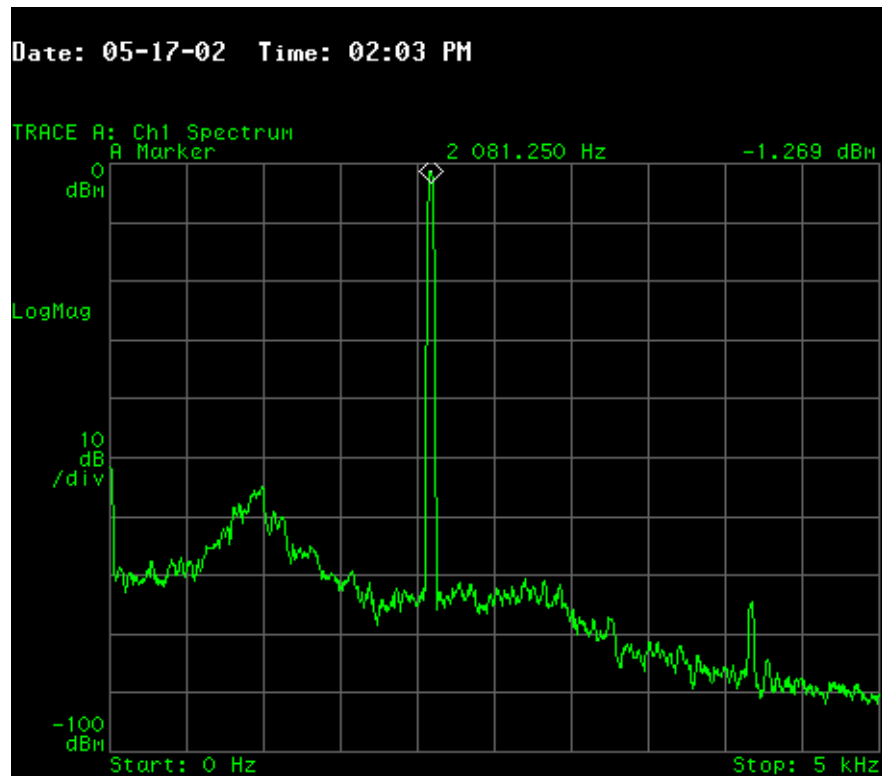
***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 13:43:59 EST

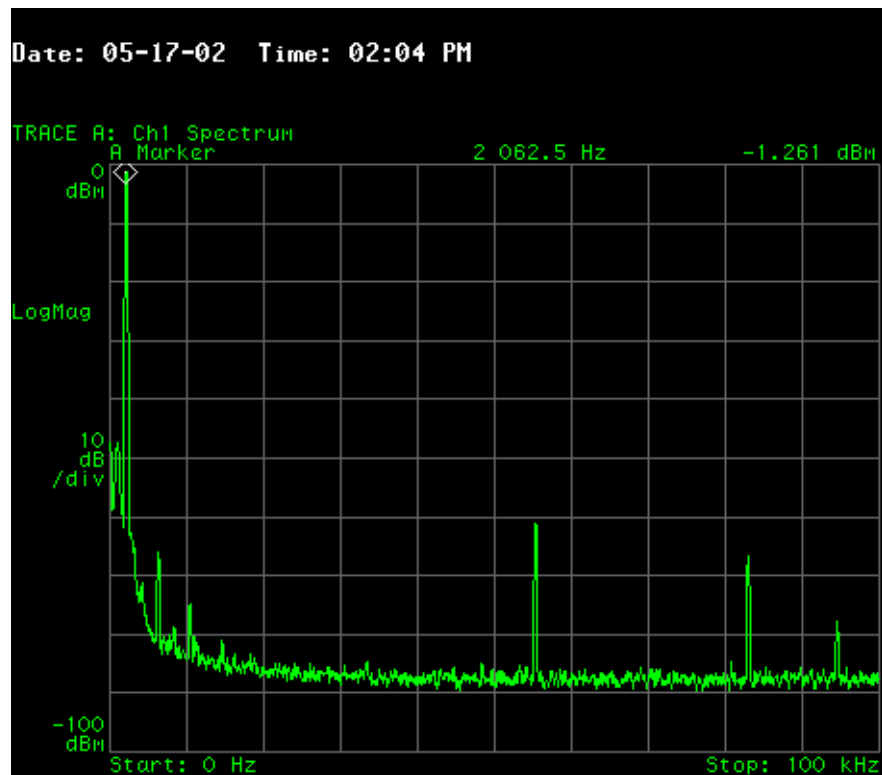
7.4 High Temperature, High Humidity, Low Power

Chamber Temperature: 51 degrees C
Relative Humidity: 96%
Line Power supplied: 85 VAC

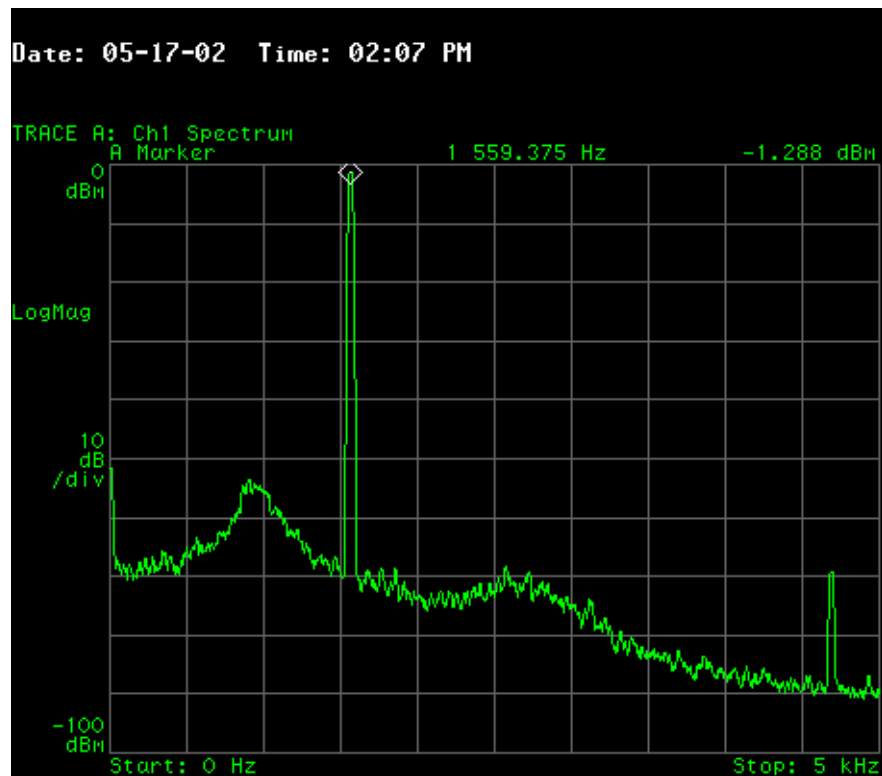
7.4.1 FSK Frequency / Spurious Signal Suppression results

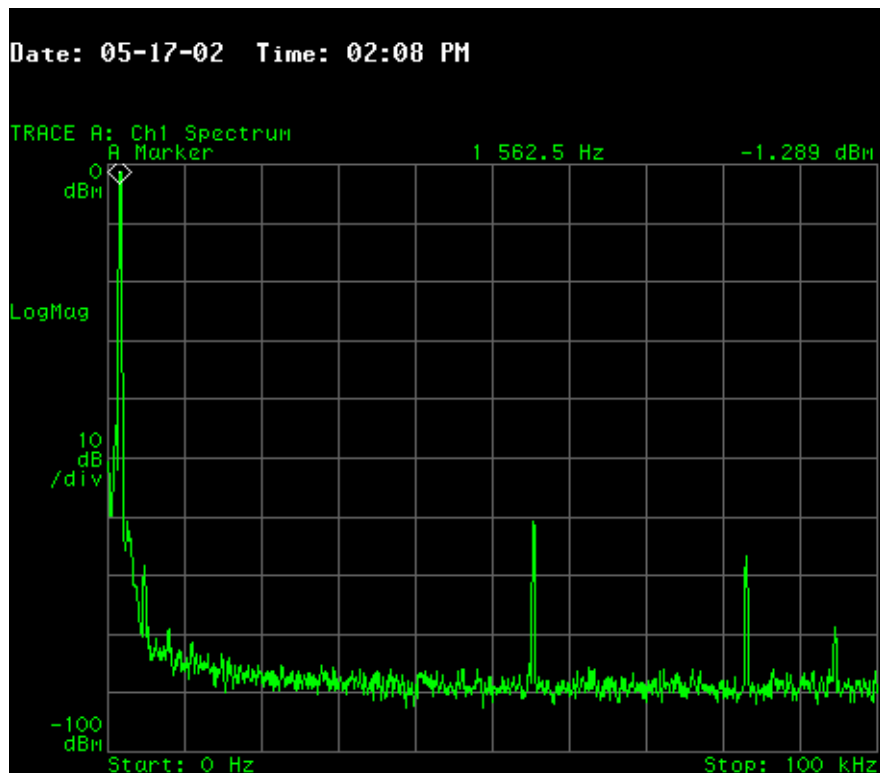
Mark Frequency Measured: 2082.995 Hz
Spurious signal Suppression: >53dB





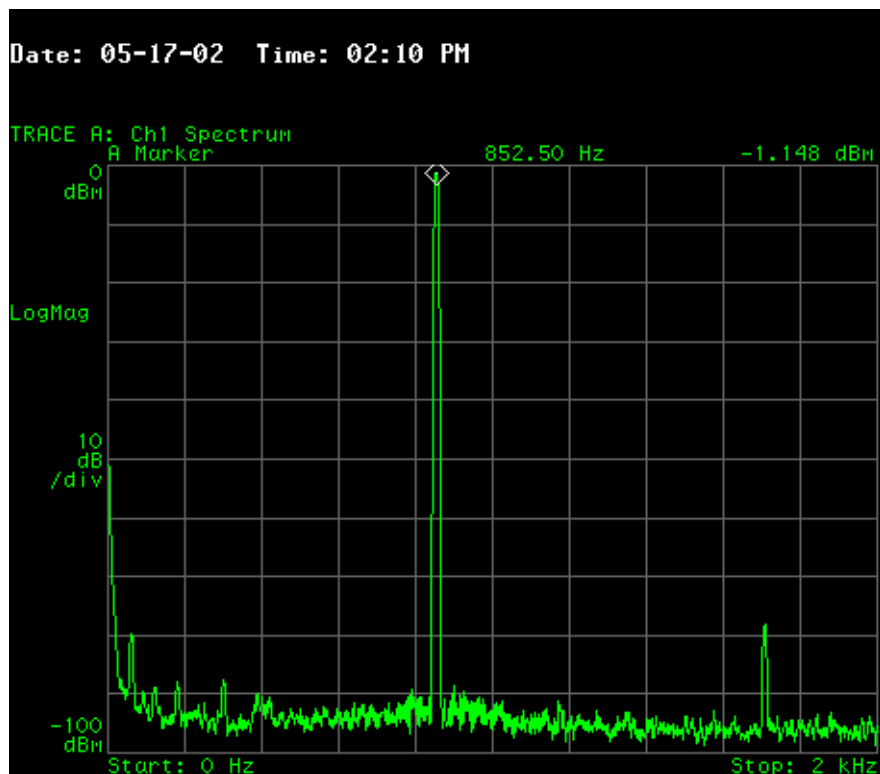
Space Frequency Measured: 1562.246 Hz
Spurious signal Suppression: >51dB



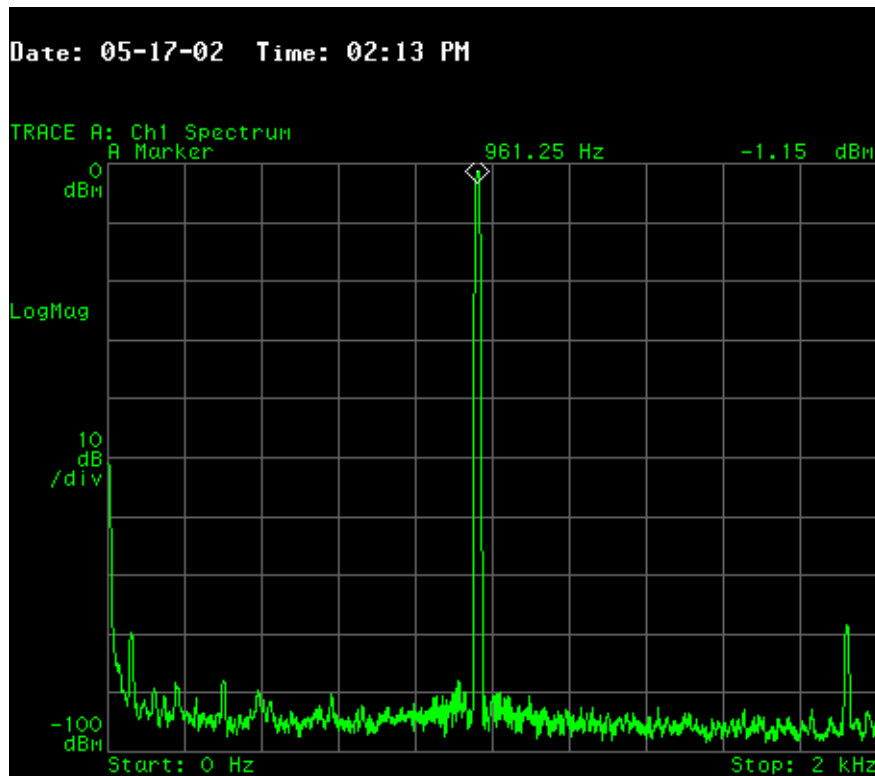


7.4.2 Dual Tone Frequency / THD / Output Level results

853 Hz tone Measured: 853.2662 Hz
 853 Hz tone THD: 0.1167%
 853 Hz tone Signal Level: 9.642 dBm (-1.148 + 10.79dB)



960 Hz tone Measured: 960.1990 Hz
960 Hz tone THD: 0.1165%
960 Hz tone Signal Level: 9.82 dBm (-1.15 + 10.79dB)



7.4.3 EAS Messaging Results, RWT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 14:18:18 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion      IN
UNTIL 14:33 EST
JULIAN DATE: 137 TIME: 14:18 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 14:18:31 EST
```

B) EUT Receive Log

Receive Log 05/17/02 14:18:17
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 14:18:00
Expiration Time: 05/17/02 14:33:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371918-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 14:33:00
EOM Received: 05/17/02 14:18:30

C) EUT Transmit Log

Transmit Log 05/17/02 14:18:30
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 14:18:00
Expiration Time: 05/17/02 14:33:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371918-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 14:33:00

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 14:18:28 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 14:33 EST
JULIAN DATE: 137 TIME: 14:18 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 14:18:38 EST

7.4.4 EAS Messaging Results, RMT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 14:19:14 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn    IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN    Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 14:34 EST
JULIAN DATE: 137 TIME: 14:19 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 14:19:59 EST
```

B) EUT Receive Log

```
Receive Log 05/17/02 14:19:13
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 14:19:00
Expiration Time: 05/17/02 14:34:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371919-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 14:34:00
Audio Message Length: 012 seconds.
EOM Received: 05/17/02 14:19:57
*****
```

C) EUT Transmit Log

Transmit Log 05/17/02 14:19:59
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 14:19:00
Expiration Time: 05/17/02 14:34:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT
-018003-018015-039021-018029-039039-018035-018039-039079-018077-018097-018107-
018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-
039163-018169-039165-039167-039169-039171-039173-039175+0015-1371919-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 14:34:00
Audio Message Length: 012 seconds.

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 14:19:57 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Jackson OH
Jefferson IN Marion IN
Montgomery IN Newton IN
Noble IN St. Joseph IN
Stark OH Summit OH
Switzerland IN Tippecanoe IN
Trumbull OH Tuscarawas OH
Union OH Van Wert OH
Vermillion IN Vinton OH
Wabash IN Warren OH
Washington OH Wayne OH
Williams OH Wood OH
Wyandot OH
UNTIL 14:34 EST
JULIAN DATE: 137 TIME: 14:19 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 12.0 Seconds
ALERT MESSAGE STORED

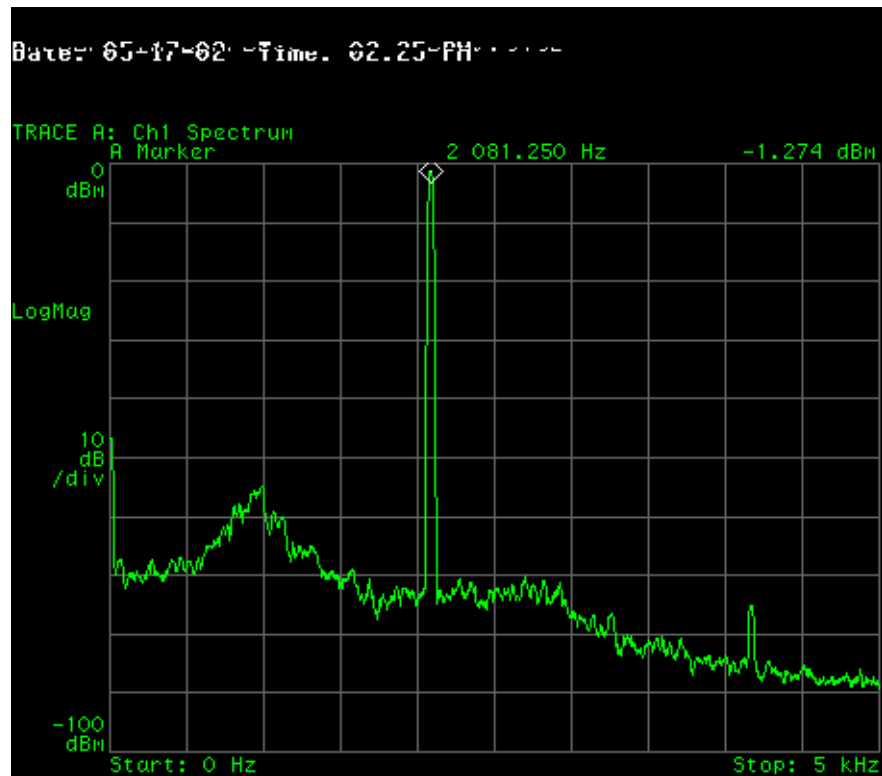
***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 14:20:45 EST

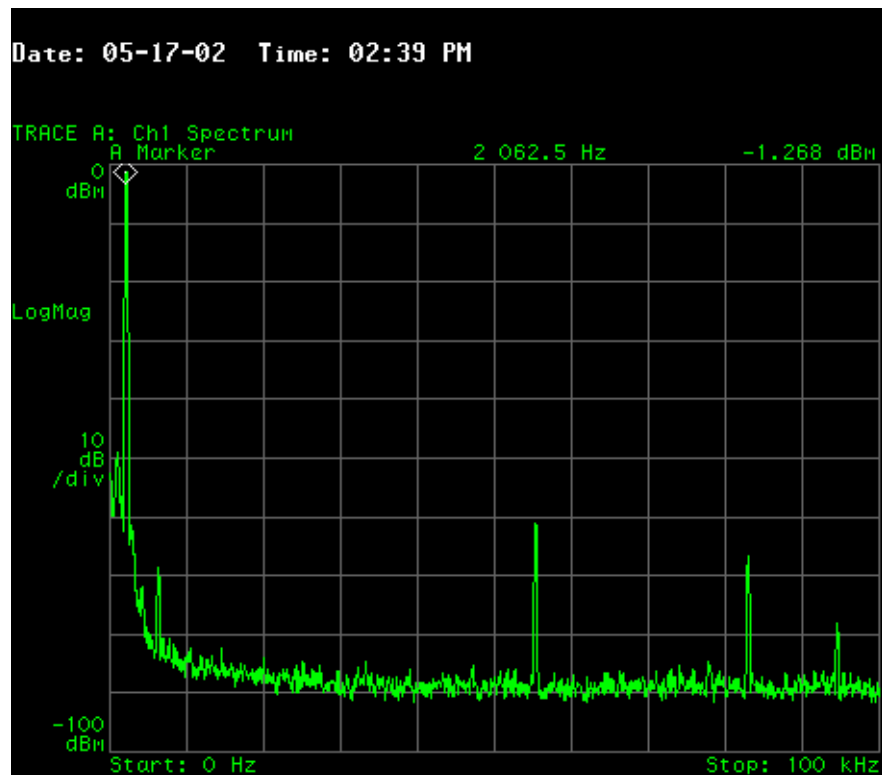
7.5 High Temperature, High Humidity, High Power

Chamber Temperature: 51 degrees C
Relative Humidity: 96%
Line Power supplied: 265 VAC

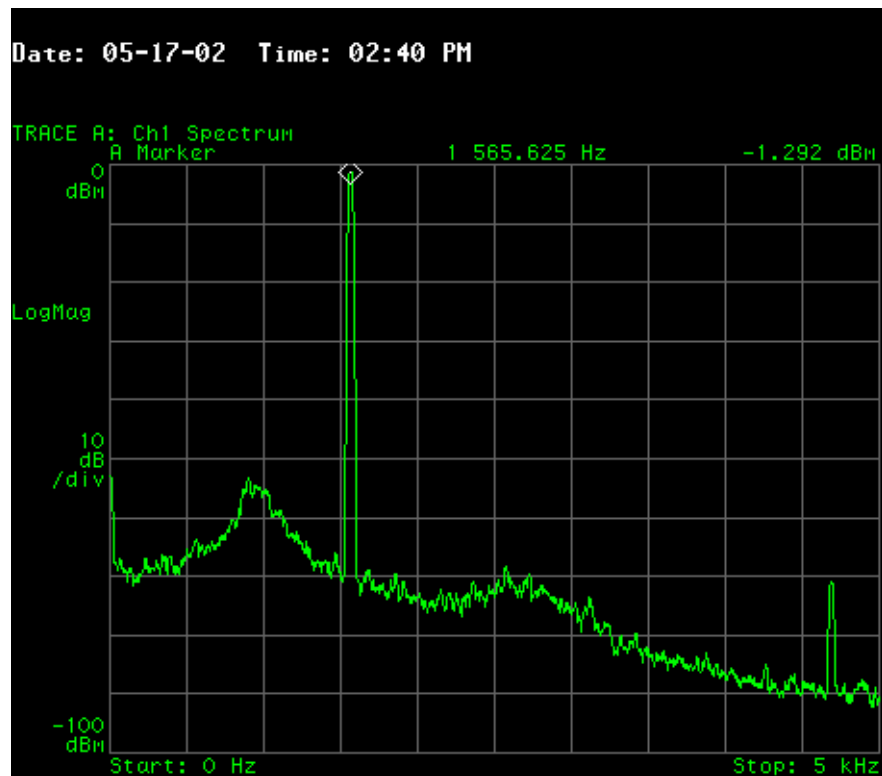
7.5.1 FSK Frequency / Spurious Signal Suppression results

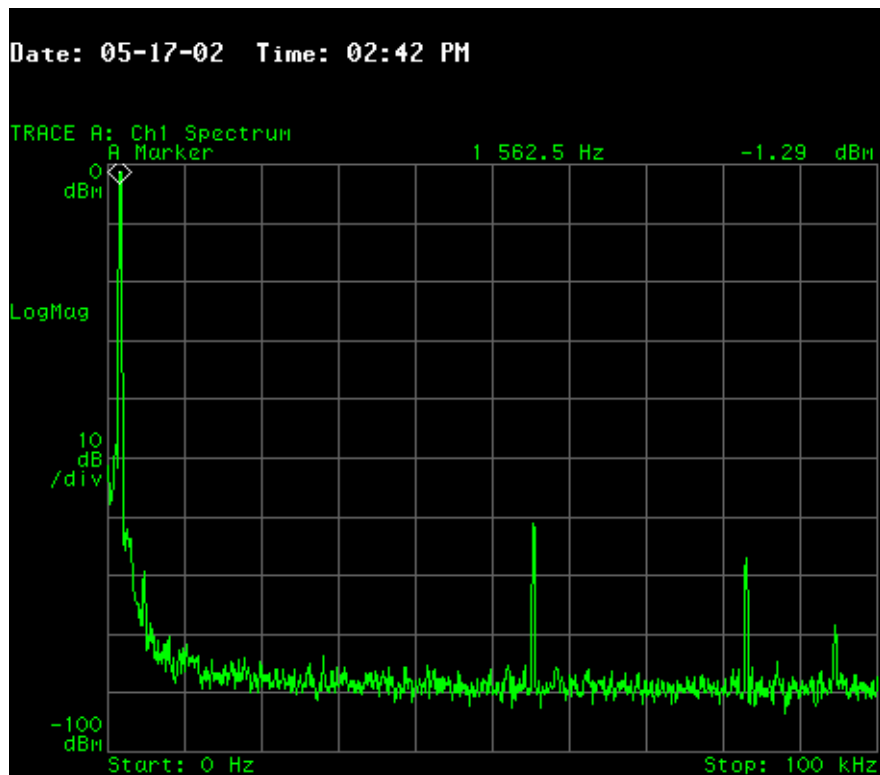
Mark Frequency Measured: 2082.994 Hz
Spurious signal Suppression: >52dB





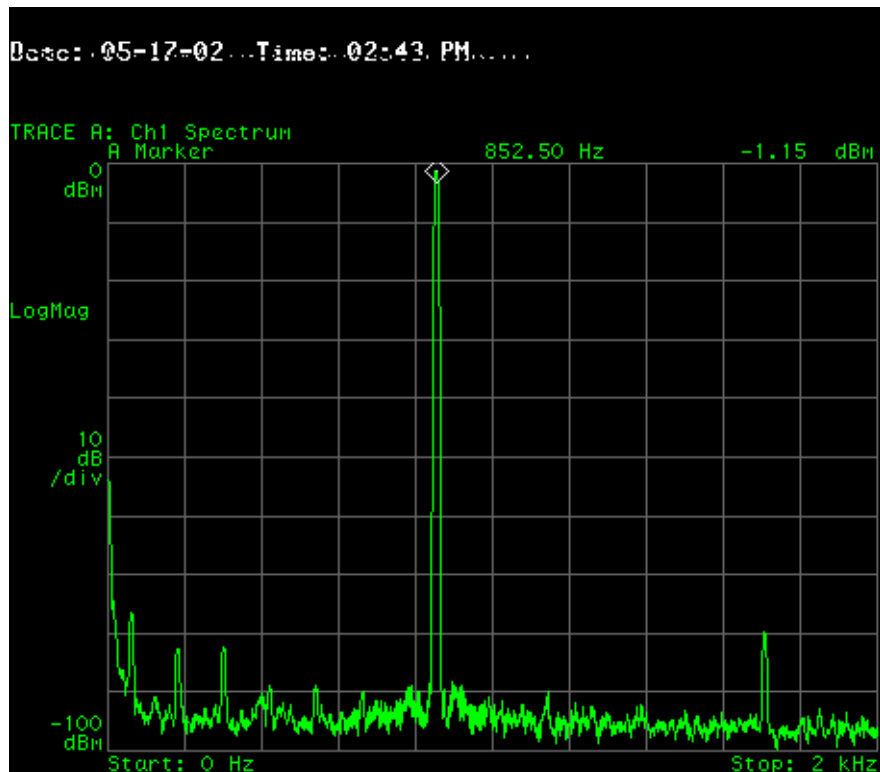
Space Frequency Measured: 1562.247 Hz
Spurious signal Suppression: >51dB



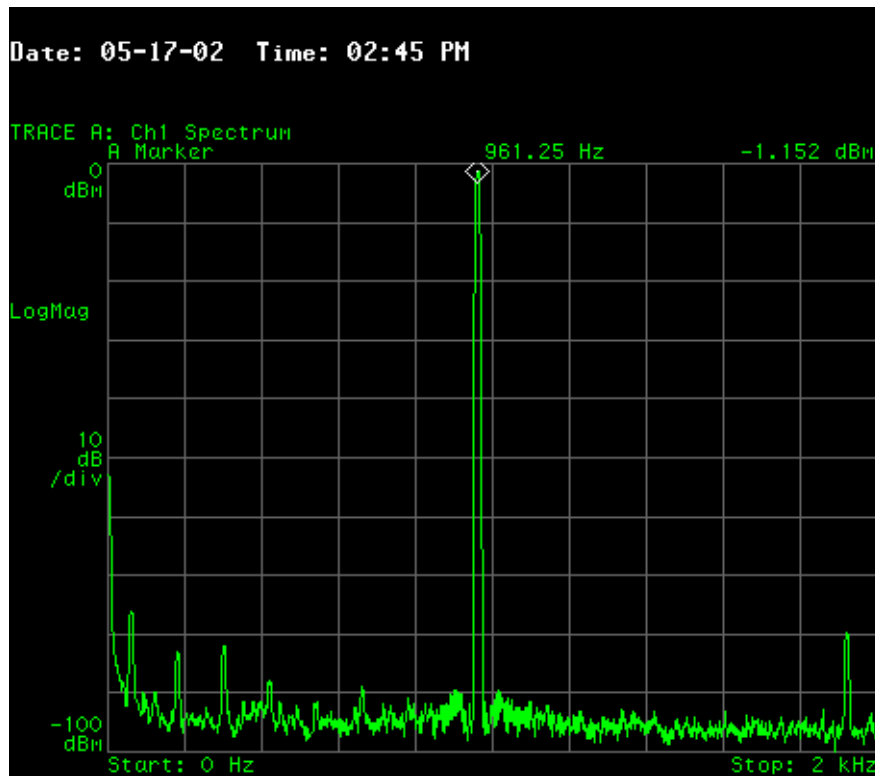


7.5.2 Dual Tone Frequency / THD / Output Level results

853 Hz tone Measured: 853.2662 Hz
 853 Hz tone THD: 0.1150%
 853 Hz tone Signal Level: 9.82 dBm (-1.15 + 10.79dB)



960 Hz tone Measured: 960.1990 Hz
960 Hz tone THD: 0.1146%
960 Hz tone Signal Level: 9.818 dBm (-1.152 + 10.79dB)



7.5.3 EAS Messaging Results, RWT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 14:49:26 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion    IN
UNTIL 15:04 EST
JULIAN DATE: 137 TIME: 14:49 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 14:49:39 EST
```


B) EUT Receive Log

Receive Log 05/17/02 14:49:25
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 14:49:00
Expiration Time: 05/17/02 15:04:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371949-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 15:04:00
EOM Received: 05/17/02 14:49:38

C) EUT Transmit Log

Transmit Log 05/17/02 14:49:38
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/17/02 14:49:00
Expiration Time: 05/17/02 15:04:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RWT-018097+0015-1371949-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Weekly Test
for the following counties: Marion IN, in affect until 05/17/02 15:04:00

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 14:49:36 EST
BROADCAST STATION ALERT
A REQUIRED WEEKLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 15:04 EST
JULIAN DATE: 137 TIME: 14:49 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 14:49:46 EST

7.5.4 EAS Messaging Results, RMT

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/17/2002 14:53:08 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn    IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN    Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 15:07 EST
JULIAN DATE: 137 TIME: 14:52 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/17/2002 14:53:56 EST
```

B) EUT Receive Log

```
Receive Log 05/17/02 14:53:07
EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 14:52:00
Expiration Time: 05/17/02 15:07:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-
018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-
039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-
1371952-WENC/01 -
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH,
Wyandot OH, in affect until 05/17/02 15:07:00
Audio Message Length: 015 seconds.
EOM Received: 05/17/02 14:53:54
*****
```

C) EUT Transmit Log

Transmit Log 05/17/02 14:53:55
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/17/02 14:52:00
Expiration Time: 05/17/02 15:07:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018003-018015-0
39021-018029-039039-018035-018039-039079-018077-018097-018107-018111-018113-018141-
039151-039153-018155-018157-039155-039157-039159-039161-018165-039163-018169-039165-
039167-039169-039171-039173-039175+0015-1371952-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH,
Switzerland IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH,
Vermillion IN, Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams
OH, Wood OH, Wyandot OH, in affect until 05/17/02 15:07:00
Audio Message Length: 015 seconds.

D) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/17/2002 14:53:54 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Jackson OH
Jefferson IN Marion IN
Montgomery IN Newton IN
Noble IN St. Joseph IN
Stark OH Summit OH
Switzerland IN Tippecanoe IN
Trumbull OH Tuscarawas OH
Union OH Van Wert OH
Vermillion IN Vinton OH
Wabash IN Warren OH
Washington OH Wayne OH
Williams OH Wood OH
Wyandot OH
UNTIL 15:07 EST
JULIAN DATE: 137 TIME: 14:52 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 13.9 Seconds
ALERT MESSAGE STORED

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/17/2002 14:54:42 EST

7.6 EAS Protocol Filtering results

A) Notebook pc encoding log

12/30/99-2:36:37 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411936- WIBM/PC-

Glitches on Header Burst(s) 1 for 15mS (each)

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:36:37 PM: Sending Header FSK

2:36:44 PM: Sending EOM FSK

12/30/99-2:37:15 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411937- WIBM/PC-

Glitches on Header Burst(s) 2 for 15mS (each)

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:37:15 PM: Sending Header FSK

2:37:22 PM: Sending EOM FSK

12/30/99-2:37:52 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411937- WIBM/PC-

Glitches on Header Burst(s) 3 for 15mS (each)

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:37:53 PM: Sending Header FSK

2:37:59 PM: Sending EOM FSK

12/30/99-2:38:17 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411938- WIBM/PC-

Glitches on Header Burst(s) 1 and 3 for 15mS (each)

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:38:18 PM: Sending Header FSK

2:38:24 PM: Sending EOM FSK

12/30/99-2:40:53 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411940- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:40:53 PM: Sending Header FSK

2:41:00 PM: Sending EOM FSK

12/30/99-2:41:10 PM- Wincoder:Send Composed/Edited Header

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

CZC-EAS-RWT-018003+0015-1411940- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:41:11 PM: Sending Header FSK

12/30/99-2:41:17 PM- Wincoder:Send EOM

2:41:17 PM: Sending EOM FSK

12/30/99-2:41:31 PM- Wincoder:Send Un-Edited Alert

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC-EAS-RWT-018003+0015-1411941- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:41:31 PM: Sending Header FSK

2:41:38 PM: Sending EOM FSK

12/30/99-2:41:47 PM- Wincoder:Send Composed/Edited Header

Event = Required Weekly Test

Originator = EAS

Duration = 00:15

Station ID = WIBM/PC

Counties = Allen, IN-

EAS Protocol Text...

ZCZC--RWT-018003+0015-1411941- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

2:41:47 PM: Sending Header FSK

```

*****

12/30/99-2:42:00 PM- Wincoder:Send EOM
2:42:01 PM: Sending EOM FSK

*****

12/30/99-2:42:18 PM- Wincoder:Send Un-Edited Alert
Event      = Required Weekly Test
Originator = EAS
Duration   = 00:15
Station ID = WIBM/PC
Counties   = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411942- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:42:19 PM: Sending Header FSK
2:42:25 PM: Sending EOM FSK

*****

12/30/99-2:42:37 PM- Wincoder:Send Composed/Edited Header
Event      = Required Weekly Test
Originator = EAS
Duration   = 00:15
Station ID = WIBM/PC
Counties   = Allen, IN-
EAS Protocol Text...
ZCZC-EAS--018003+0015-1411942- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:42:37 PM: Sending Header FSK

*****

12/30/99-2:42:44 PM- Wincoder:Send EOM
2:42:44 PM: Sending EOM FSK

*****

12/30/99-2:43:01 PM- Wincoder:Send Un-Edited Alert
Event      = Required Weekly Test
Originator = EAS
Duration   = 00:15
Station ID = WIBM/PC
Counties   = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411943- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:43:01 PM: Sending Header FSK
2:43:08 PM: Sending EOM FSK

*****

12/30/99-2:43:20 PM- Wincoder:Send Composed/Edited Header
Event      = Required Weekly Test
Originator = EAS
Duration   = 00:15
Station ID = WIBM/PC
Counties   = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-+0015-1411943- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

```

Bit 7 masked to 0 except on preamble
2:43:20 PM: Sending Header FSK

12/30/99-2:43:26 PM- Wincoder:Send EOM
2:43:26 PM: Sending EOM FSK

12/30/99-2:43:38 PM- Wincoder:Send Un-Edited Alert
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411943- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:43:38 PM: Sending Header FSK
2:43:45 PM: Sending EOM FSK

12/30/99-2:43:53 PM- Wincoder:Send Composed/Edited Header
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411943--
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:43:53 PM: Sending Header FSK

12/30/99-2:44:00 PM- Wincoder:Send EOM
2:44:00 PM: Sending EOM FSK

12/30/99-2:44:08 PM- Wincoder:Send Un-Edited Alert
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411944- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:44:08 PM: Sending Header FSK
2:44:15 PM: Sending EOM FSK

12/30/99-2:44:36 PM- Wincoder:Send Composed/Edited Header
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...

ZCZC-EAS-RWT-**018003-+0015**-1411944- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:44:36 PM: Sending Header FSK

12/30/99-2:44:48 PM- Wincoder:Send EOM
2:44:48 PM: Sending EOM FSK

12/30/99-2:45:14 PM- Wincoder:Send Un-Edited Alert
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411945- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:45:15 PM: Sending Header FSK
2:45:21 PM: Sending EOM FSK

12/30/99-2:45:28 PM- Wincoder:Send Composed/Edited Header
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411945- WIBM-PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:45:28 PM: Sending Header FSK

12/30/99-2:45:34 PM- Wincoder:Send EOM
2:45:35 PM: Sending EOM FSK

12/30/99-2:45:43 PM- Wincoder:Send Un-Edited Alert
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411945- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:45:43 PM: Sending Header FSK
2:45:50 PM: Sending EOM FSK

12/30/99-2:46:12 PM- Wincoder:Send Composed/Edited Header
Event = Required Weekly Test
Originator = EAS
Duration = 00:15

Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018-03+0015-1411945- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:46:12 PM: Sending Header FSK

12/30/99-2:46:19 PM- Wincoder:Send EOM
2:46:19 PM: Sending EOM FSK

B) EUT Log

Receive Log 05/21/02 14:36:44
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:36:00
Expiration Time: 05/21/02 14:51:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411936- WIBM/PC-

Receive Log 05/21/02 14:36:48
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 14:37:22
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:37:00
Expiration Time: 05/21/02 14:52:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411937- WIBM/PC-

Receive Log 05/21/02 14:37:26
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 14:37:57
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:37:00
Expiration Time: 05/21/02 14:52:00
Status: Duplicate Message
EAS Header: ZCZC-EAS-RWT-018003+0015-1411937- WIBM/PC-

Receive Log 05/21/02 14:38:03
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 14:38:28
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

```

Receive Log 05/21/02 14:40:58
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:40:00
Expiration Time: 05/21/02 14:55:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411940- WIBM/PC-
*****
Receive Log 05/21/02 14:41:04
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:41:21
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:41:36
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:41:00
Expiration Time: 05/21/02 14:56:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411941- WIBM/PC-
*****
Receive Log 05/21/02 14:41:42
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:42:04
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:42:24
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:42:00
Expiration Time: 05/21/02 14:57:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411942- WIBM/PC-
*****
Receive Log 05/21/02 14:42:29
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:42:48
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:43:06
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:43:00
Expiration Time: 05/21/02 14:58:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411943- WIBM/PC-
*****
Receive Log 05/21/02 14:43:11
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:43:30

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EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:43:43
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:43:00
Expiration Time: 05/21/02 14:58:00
Status: Duplicate Message
EAS Header: ZCZC-EAS-RWT-018003+0015-1411943- WIBM/PC-
*****
Receive Log 05/21/02 14:43:48
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:44:04
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:44:13
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:44:00
Expiration Time: 05/21/02 14:59:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411944- WIBM/PC-
*****
Receive Log 05/21/02 14:44:19
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:44:52
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:45:20
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:45:00
Expiration Time: 05/21/02 15:00:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411945- WIBM/PC-
*****
Receive Log 05/21/02 14:45:25
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:45:38
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN
*****
Receive Log 05/21/02 14:45:48
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:45:00
Expiration Time: 05/21/02 15:00:00
Status: Duplicate Message
EAS Header: ZCZC-EAS-RWT-018003+0015-1411945- WIBM/PC-
*****
Receive Log 05/21/02 14:45:54
EAS Message Received from Audio Channel: 5.

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EOM Received: NNNN

Receive Log 05/21/02 14:46:23
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

7.7 EAS Message Filtering results

A) Notebook PC Encoding Log

12/30/99-2:50:20 PM- Wincoder:Send Composed/Edited Header
Event = Emergency Action Notification
Originator = PEP
Duration = 05:00
Station ID = WIBM/PC
Counties = Entire State, IN-Marion, IN-
EAS Protocol Text...
ZCZC-PEP-EAN-018000-018097+0500-1411950- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:50:20 PM: Sending Header FSK
2:50:26 PM: Sending Attention Tone

12/30/99-2:55:05 PM- Wincoder:Send EOM
2:55:05 PM: Sending EOM FSK

12/30/99-2:55:23 PM- Wincoder:Send Un-Edited Alert
Event = Emergency Action Termination
Originator = PEP
Duration = 00:15
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_03 Short_Demo.wav
Counties = Entire State, IN-Marion, IN-
EAS Protocol Text...
ZCZC-PEP-EAT-018000-018097+0015-1411955- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:55:23 PM: Sending Header FSK
2:55:29 PM: Sending Attention Tone
2:55:38 PM: Sending Voice Message
2:55:42 PM: Sending EOM FSK

12/30/99-2:56:40 PM- Wincoder:Send Un-Edited Alert
Event = Required Monthly Test
Originator = EAS
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\Long-dmo.wav
Counties = Marion, IN-Noble, IN-
EAS Protocol Text...
ZCZC-EAS-RMT-018097-018113+0100-1411956- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:56:40 PM: Sending Header FSK
2:56:46 PM: Sending Attention Tone
2:56:55 PM: Sending Voice Message
2:57:17 PM: Sending EOM FSK

12/30/99-2:58:25 PM- Wincoder:Send Un-Edited Alert
Event = Required Weekly Test
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
Counties = Allen, IN-
EAS Protocol Text...
ZCZC-EAS-RWT-018003+0015-1411958- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:58:26 PM: Sending Header FSK
2:58:32 PM: Sending EOM FSK

12/30/99-2:58:48 PM- Wincoder:Send Un-Edited Alert
Event = Administrative Message
Originator = CIV
Duration = 00:15
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_08 Who is there.wav
Counties = Champaign, OH-Dearborn, IN-Defiance, OH-Delaware, IN-Elkhart, IN-Entire
State, IN-Jackson, OH-Jefferson, IN-Marion, IN-Montgomery, IN-Newton, IN-Noble, IN-
St. Joseph, IN-Stark, OH-Summit, OH-Switzerland, IN-Tippecanoe, IN-Trumbull, OH-
Tuscarawas, OH-Union, OH-Van Wert, OH-Vermillion, IN-Vinton, OH-Wabash, IN-Warren,
OH-Washington, OH-Wayne, OH-Williams, OH-Wood, OH-Wyandot, OH-
EAS Protocol Text...
ZCZC-CIV-ADR-039021-018029-039039-018035-018039-018000-039079-018077-018097-018107-
018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-
039163-018169-039165-039167-039169-039171-039173-039175+0015-1411958- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
2:58:51 PM: Sending Header FSK
2:59:06 PM: Sending Attention Tone
2:59:15 PM: Sending Voice Message
3:00:27 PM: Sending EOM FSK

12/30/99-3:00:40 PM- Wincoder:Send Un-Edited Alert
Event = Blizzard Warning
Originator = WXR
Duration = 00:45
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_07 The Microsoft Sound.wav
Counties = Marion, IN-Newton, IN-Switzerland, IN-
EAS Protocol Text...
ZCZC-WXR-BZW-018097-018111-018155+0045-1412000- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:00:41 PM: Sending Header FSK
3:00:47 PM: Sending Attention Tone
3:00:56 PM: Sending Voice Message
3:01:06 PM: Sending EOM FSK

12/30/99-3:02:02 PM- Wincoder:Send Un-Edited Alert
Event = Civil Emergency Message
Originator = CIV
Duration = 01:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-CIV-CEM-018097+0130-1412002- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:02:03 PM: Sending Header FSK
3:02:09 PM: Sending Attention Tone
3:02:18 PM: Sending Voice Message
3:03:56 PM: Sending EOM FSK

12/30/99-3:12:01 PM- Wincoder:Send Un-Edited Alert
Event = Practice/Demo Warning
Originator = EAS
Duration = 00:15
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Allen, IN-Champaign, OH-Defiance, OH-Delaware, IN-Elkhart, IN-Entire
State, IN-Jackson, OH-Jefferson, IN-Marion, IN-Montgomery, IN-Newton, IN-Noble, IN-
St. Joseph, IN-Stark, OH-Summit, OH-Switzerland, IN-Tippecanoe, IN-Trumbull, OH-
Tuscarawas, OH-Union, OH-Van Wert, OH-Vermillion, IN-Vinton, OH-Wabash, IN-Warren,
OH-Washington, OH-Wayne, OH-Williams, OH-Wood, OH-Wyandot, OH-
EAS Protocol Text...
ZCZC-EAS-DMO-018003-039021-039039-018035-018039-018000-039079-018077-018097-018107-
018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-
039163-018169-039165-039167-039169-039171-039173-039175+0015-1412012- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:12:03 PM: Sending Header FSK
3:12:18 PM: Sending Attention Tone
3:12:28 PM: Sending Voice Message
3:12:50 PM: Sending EOM FSK

12/30/99-3:13:00 PM- Wincoder:Send Un-Edited Alert
Event = Evacuation Immediate
Originator = CIV
Duration = 04:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Carroll, IN-Champaign, OH-Defiance, OH-
EAS Protocol Text...
ZCZC-CIV-EVI-018015-039021-039039+0430-1412013- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:13:00 PM: Sending Header FSK
3:13:07 PM: Sending Attention Tone
3:13:16 PM: Sending Voice Message
3:14:53 PM: Sending EOM FSK

12/30/99-3:15:22 PM- Wincoder:Send Un-Edited Alert
Event = Flash Flood Watch
Originator = WXR
Duration = 03:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_37 Ffdave.wav
Counties = Marion, IN-St. Joseph, IN-Tippecanoe, IN-
EAS Protocol Text...
ZCZC-WXR-FFA-018097-018141-018157+0330-1412015- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:15:23 PM: Sending Header FSK
3:15:29 PM: Sending Attention Tone
3:15:38 PM: Sending Voice Message
3:16:16 PM: Sending EOM FSK

12/30/99-3:16:39 PM- Wincoder:Send Un-Edited Alert
Event = Flash Flood Statement
Originator = WXR
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_37 Ffdave.wav
Counties = Dearborn, IN-Marion, IN-St. Joseph, IN-Tippecanoe, IN-
EAS Protocol Text...
ZCZC-WXR-FFS-018029-018097-018141-018157+0100-1412016- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:16:39 PM: Sending Header FSK
3:16:46 PM: Sending Attention Tone
3:16:55 PM: Sending Voice Message
3:17:33 PM: Sending EOM FSK

12/30/99-3:18:03 PM- Wincoder:Send Un-Edited Alert
Event = Flash Flood Warning
Originator = WXR
Duration = 01:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_37 Ffdave.wav
Counties = Carroll, IN-Defiance, OH-Marion, IN-St. Joseph, IN-Tippecanoe, IN-
EAS Protocol Text...
ZCZC-WXR-FFW-018015-039039-018097-018141-018157+0130-1412018- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:18:04 PM: Sending Header FSK
3:18:11 PM: Sending Attention Tone
3:18:20 PM: Sending Voice Message
3:18:58 PM: Sending EOM FSK

12/30/99-3:20:23 PM- Wincoder:Send Un-Edited Alert
Event = Flood Watch
Originator = WXR
Duration = 03:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_08 Who is there.wav
Counties = Carroll, IN-Dearborn, IN-Elkhart, IN-Marion, IN-St. Joseph, IN-Tippecanoe, IN-Union, OH-
EAS Protocol Text...
ZCZC-WXR-FLA-018015-018029-018039-018097-018141-018157-039159+0300-1412020- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:20:23 PM: Sending Header FSK
3:20:31 PM: Sending Attention Tone
3:20:40 PM: Sending Voice Message
3:21:52 PM: Sending EOM FSK

12/30/99-3:22:03 PM- Wincoder:Send Un-Edited Alert
Event = Flood Statement
Originator = WXR
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Marion, IN-St. Joseph, IN-Tippecanoe, IN-
EAS Protocol Text...
ZCZC-WXR-FLS-018097-018141-018157+0100-1412022- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:22:04 PM: Sending Header FSK
3:22:10 PM: Sending Attention Tone
3:22:20 PM: Sending Voice Message
3:23:58 PM: Sending EOM FSK

12/30/99-3:24:25 PM- Wincoder:Send Un-Edited Alert
Event = Flood Warning
Originator = WXR
Duration = 02:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-WXR-FLW-018097+0230-1412024- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:24:26 PM: Sending Header FSK
3:24:31 PM: Sending Attention Tone
3:24:40 PM: Sending Voice Message
3:25:03 PM: Sending EOM FSK

12/30/99-3:29:42 PM- Wincoder:Send Un-Edited Alert
Event = Hurricane Statement
Originator = WXR
Duration = 05:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Dearborn, IN-Delaware, IN-Elkhart, IN-Marion, IN-Montgomery, IN-St.
Joseph, IN-Stark, OH-Switzerland, IN-Tippecanoe, IN-Union, OH-Van Wert, OH-Wabash,
IN-Wayne, OH-
EAS Protocol Text...
ZCZC-WXR-HLS-018029-018035-018039-018097-018107-018141-039151-018155-018157-039159-
039161-018169-039169+0530-1412029- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:29:43 PM: Sending Header FSK
3:29:52 PM: Sending Attention Tone
3:30:01 PM: Sending Voice Message
3:30:24 PM: Sending EOM FSK

12/30/99-3:30:50 PM- Wincoder:Send Un-Edited Alert
Event = Hurricane Watch
Originator = WXR
Duration = 05:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_08 Who is there.wav
Counties = Champaign, OH-Jackson, OH-Marion, IN-Stark, OH-Trumbull, OH-
EAS Protocol Text...
ZCZC-WXR-HUA-039021-039079-018097-039151-039155+0500-1412030- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:30:50 PM: Sending Header FSK
3:30:58 PM: Sending Attention Tone
3:31:07 PM: Sending Voice Message
3:32:20 PM: Sending EOM FSK

12/30/99-3:35:14 PM- Wincoder:Send Un-Edited Alert
Event = Hurricane Warning
Originator = WXR
Duration = 02:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Jackson, OH-Marion, IN-Trumbull, OH-
EAS Protocol Text...
ZCZC-WXR-HUW-039079-018097-039155+0200-1412035- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:35:15 PM: Sending Header FSK
3:35:21 PM: Sending Attention Tone
3:35:30 PM: Sending Voice Message
3:37:08 PM: Sending EOM FSK

12/30/99-3:40:58 PM- Wincoder:Send Un-Edited Alert
Event = High Wind Watch
Originator = WXR
Duration = 02:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_37 Ffdave.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-WXR-HWA-018097+0230-1412040- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:40:58 PM: Sending Header FSK
3:41:04 PM: Sending Attention Tone
3:41:13 PM: Sending Voice Message
3:41:52 PM: Sending EOM FSK

12/30/99-3:42:22 PM- Wincoder:Send Un-Edited Alert
Event = High Wind Warning
Originator = WXR
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_05 wail.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-WXR-HWW-018097+0100-1412042- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:42:23 PM: Sending Header FSK
3:42:29 PM: Sending Attention Tone
3:42:38 PM: Sending Voice Message
3:42:45 PM: Sending EOM FSK

12/30/99-3:44:17 PM- Wincoder:Send Un-Edited Alert
Event = National Information Center
Originator = PEP
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Entire State, IN-Marion, IN-
EAS Protocol Text...
ZCZC-PEP-NIC-018000-018097+0100-1412044- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:44:17 PM: Sending Header FSK
3:44:23 PM: Sending Attention Tone
3:44:32 PM: Sending Voice Message
3:44:55 PM: Sending EOM FSK

12/30/99-3:46:27 PM- Wincoder:Send Un-Edited Alert
Event = National Periodic Test
Originator = PEP
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Entire State, IN-Marion, IN-St. Joseph, IN-Tippecanoe, IN-Tuscarawas, OH-
EAS Protocol Text...
ZCZC-PEP-NPT-018000-018097-018141-018157-039157+0100-1412046- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:46:27 PM: Sending Header FSK
3:46:34 PM: Sending Attention Tone
3:46:43 PM: Sending Voice Message
3:47:05 PM: Sending EOM FSK

12/30/99-3:48:34 PM- Wincoder:Send Un-Edited Alert
Event = Special Weather Statement
Originator = WXR
Duration = 00:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_08 Who is there.wav
Counties = Elkhart, IN-Marion, IN-Noble, IN-Summit, OH-Trumbull, OH-
EAS Protocol Text...
ZCZC-WXR-SPS-018039-018097-018113-039153-039155+0030-1412048- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:48:34 PM: Sending Header FSK
3:48:41 PM: Sending Attention Tone
3:48:50 PM: Sending Voice Message
3:50:03 PM: Sending EOM FSK

12/30/99-3:50:29 PM- Wincoder:Send Un-Edited Alert
Event = Severe Thunderstorm Watch
Originator = WXR
Duration = 02:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Marion, IN-Noble, IN-St. Joseph, IN-
EAS Protocol Text...
ZCZC-WXR-SVA-018097-018113-018141+0200-1412050- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:50:30 PM: Sending Header FSK
3:50:36 PM: Sending Attention Tone
3:50:45 PM: Sending Voice Message
3:52:23 PM: Sending EOM FSK

12/30/99-3:55:59 PM- Wincoder:Send Un-Edited Alert
Event = Severe Thunderstorm Warning
Originator = WXR
Duration = 00:45
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_03 Short_Demo.wav
Counties = Carroll, IN-Marion, IN-Trumbull, OH-Union, OH-
EAS Protocol Text...
ZCZC-WXR-SVR-018015-018097-039155-039159+0045-1412055- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:56:00 PM: Sending Header FSK
3:56:07 PM: Sending Attention Tone
3:56:16 PM: Sending Voice Message
3:56:20 PM: Sending EOM FSK

12/30/99-3:56:55 PM- Wincoder:Send Un-Edited Alert
Event = Severe Weather Statement
Originator = WXR
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_07 The Microsoft Sound.wav
Counties = Marion, IN-Noble, IN-St. Joseph, IN-
EAS Protocol Text...
ZCZC-WXR-SVS-018097-018113-018141+0100-1412056- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:56:56 PM: Sending Header FSK
3:57:02 PM: Sending Attention Tone
3:57:11 PM: Sending Voice Message
3:57:20 PM: Sending EOM FSK

12/30/99-3:57:51 PM- Wincoder:Send Un-Edited Alert
Event = Tornado Watch
Originator = WXR
Duration = 00:45
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-WXR-TOA-018097+0045-1412057- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:57:51 PM: Sending Header FSK
3:57:57 PM: Sending Attention Tone
3:58:06 PM: Sending Voice Message
3:58:29 PM: Sending EOM FSK

12/30/99-3:58:41 PM- Wincoder:Send Un-Edited Alert
Event = Tornado Warning
Originator = WXR
Duration = 00:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Marion, IN-
EAS Protocol Text...
ZCZC-WXR-TOR-018097+0030-1412058- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
3:58:41 PM: Sending Header FSK
3:58:47 PM: Sending Attention Tone
3:58:56 PM: Sending Voice Message
3:59:18 PM: Sending EOM FSK

12/30/99-4:00:17 PM- Wincoder:Send Un-Edited Alert
Event = Tsunami Watch
Originator = WXR
Duration = 05:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_21 Long-dmo.wav
Counties = Defiance, OH-Entire State, IN-Marion, IN-
EAS Protocol Text...
ZCZC-WXR-TSA-039039-018000-018097+0500-1412100- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:00:17 PM: Sending Header FSK
4:00:24 PM: Sending Attention Tone
4:00:33 PM: Sending Voice Message
4:00:55 PM: Sending EOM FSK

12/30/99-4:01:07 PM- Wincoder:Send Un-Edited Alert
Event = Tsunami Warning
Originator = WXR
Duration = 02:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable_37 Ffdave.wav
Counties = Carroll, IN-Dearborn, IN-Marion, IN-
EAS Protocol Text...
ZCZC-WXR-TSW-018015-018029-018097+0230-1412101- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:01:08 PM: Sending Header FSK
4:01:14 PM: Sending Attention Tone
4:01:23 PM: Sending Voice Message
4:02:01 PM: Sending EOM FSK

12/30/99-4:02:17 PM- Wincoder:Send Un-Edited Alert
Event = Winter Storm Watch
Originator = WXR
Duration = 02:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_08 Who is there.wav
Counties = Entire State, IN-Marion, IN-Stark, OH-Switzerland, IN-
EAS Protocol Text...
ZCZC-WXR-WSA-018000-018097-039151-018155+0230-1412102- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:02:18 PM: Sending Header FSK
4:02:24 PM: Sending Attention Tone
4:02:33 PM: Sending Voice Message
4:03:46 PM: Sending EOM FSK

12/30/99-4:04:08 PM- Wincoder:Send Un-Edited Alert
Event = Winter Storm Warning
Originator = WXR
Duration = 00:30
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\1_36 Kettle.wav
Counties = Allen, IN-Carroll, IN-Champaign, OH-Dearborn, IN-Defiance, OH-Delaware,
IN-Elkhart, IN-Entire State, IN-Jackson, OH-Jefferson, IN-Marion, IN-Montgomery, IN-
Newton, IN-Noble, IN-St. Joseph, IN-Stark, OH-Summit, OH-Switzerland, IN-Tippecanoe,
IN-Trumbull, OH-Tuscarawas, OH-Union, OH-Van Wert, OH-Vermillion, IN-Vinton, OH-
Wabash, IN-Warren, OH-Washington, OH-Wayne, OH-Williams, OH-
EAS Protocol Text...
ZCZC-WXR-WSW-018003-018015-039021-018029-039039-018035-018039-018000-039079-018077-
018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-
039161-018165-039163-018169-039165-039167-039169-039171+0030-1412104- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:04:10 PM: Sending Header FSK
4:04:26 PM: Sending Attention Tone
4:04:35 PM: Sending Voice Message
4:06:13 PM: Sending EOM FSK

B) EUT Log

```
*****
Receive Log 05/21/02 14:50:25
EAS Message Received from Audio Channel: 5.
Originator: Primary Entry Point System
Event: Emergency Action Notification
Origination Time: 05/21/02 14:50:00
Expiration Time: 05/21/02 19:50:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1411950- WIBM/PC-
EAS Translation: Primary Entry Point System has issued an Emergency Action
Notification for the following counties: State of Indiana , Marion IN, in effect
until 05/21/02 19:50:00
Audio Message Length: Live Audio Patch.
*****
Transmit Log 05/21/02 14:50:25
Retransmit EAS Message.
Originator: Primary Entry Point System
Event: Emergency Action Notification
Origination Time: 05/21/02 14:50:00
Expiration Time: 05/21/02 19:50:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1411950-EASYPLUS-
EAS Translation: Primary Entry Point System has issued an Emergency Action
Notification for the following counties: State of Indiana , Marion IN, in effect
until 05/21/02 19:50:00
Audio Message Length: Live Audio Patch.
*****
Receive Log 05/21/02 14:55:28
EAS Message Received from Audio Channel: 5.
Originator: Primary Entry Point System
Event: Emergency Action Termination
Origination Time: 05/21/02 14:55:00
Expiration Time: 05/21/02 15:10:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-EAT-018000-018097+0015-1411955- WIBM/PC-
EAS Translation: Primary Entry Point System has issued an Emergency Action
Termination for the following counties: State of Indiana , Marion IN, in effect
until 05/21/02 15:10:00
Audio Message Length: 005 seconds.
EOM Received: 05/21/02 14:55:46
*****
Transmit Log 05/21/02 14:55:48
Retransmit EAS Message.
Originator: Primary Entry Point System
Event: Emergency Action Termination
Origination Time: 05/21/02 14:55:00
Expiration Time: 05/21/02 15:10:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-EAT-018000-018097+0015-1411955-EASYPLUS-
EAS Translation: Primary Entry Point System has issued an Emergency Action
Termination for the following counties: State of Indiana , Marion IN, in effect
until 05/21/02 15:10:00
Audio Message Length: 005 seconds.
*****
```


Receive Log 05/21/02 14:56:45
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/21/02 14:56:00
Expiration Time: 05/21/02 15:56:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018097-018113+0100-1411956- WIBM/PC-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Marion IN, Noble IN, in effect until 05/21/02
15:56:00
Audio Message Length: 023 seconds.
EOM Received: 05/21/02 14:57:21

Transmit Log 05/21/02 14:57:23
Retransmit EAS Message.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/21/02 14:56:00
Expiration Time: 05/21/02 15:56:00
Status: Message Auto Forwarded
EAS Header: ZCZC-EAS-RMT-018097-018113+0100-1411956-EASYPLUS-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Marion IN, Noble IN, in effect until 05/21/02
15:56:00
Audio Message Length: 023 seconds.

Receive Log 05/21/02 14:58:31
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Weekly Test
Origination Time: 05/21/02 14:58:00
Expiration Time: 05/21/02 15:13:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-RWT-018003+0015-1411958- WIBM/PC-

Receive Log 05/21/02 14:58:36
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 14:59:02
EAS Message Received from Audio Channel: 5.
Originator: Civil Authorities
Event: Administrative Message
Origination Time: 05/21/02 14:58:00
Expiration Time: 05/21/02 15:13:00
Status: Event Not Selected by User
EAS Header: ZCZC-CIV-ADR-039021-018029-039039-018035-018039-018000-039079-018077-
018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-
039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-1411958-
WIBM/PC-

Receive Log 05/21/02 15:00:31
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:00:46
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Blizzard Warning
Origination Time: 05/21/02 15:00:00
Expiration Time: 05/21/02 15:45:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-BZW-018097-018111-018155+0045-1412000- WIBM/PC-
EAS Translation: National Weather Service has issued a Blizzard Warning for the following counties: Marion IN, Newton IN, Switzerland IN, in effect until 05/21/02 15:45:00
Audio Message Length: 010 seconds.
EOM Received: 05/21/02 15:01:10

Transmit Log 05/21/02 15:01:12
Retransmit EAS Message.
Originator: National Weather Service
Event: Blizzard Warning
Origination Time: 05/21/02 15:00:00
Expiration Time: 05/21/02 15:45:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-BZW-018097-018111-018155+0045-1412000-EASYPLUS-
EAS Translation: National Weather Service has issued a Blizzard Warning for the following counties: Marion IN, Newton IN, Switzerland IN, in effect until 05/21/02 15:45:00
Audio Message Length: 010 seconds.

Receive Log 05/21/02 15:02:08
EAS Message Received from Audio Channel: 5.
Originator: Civil Authorities
Event: Civil Emergency Message
Origination Time: 05/21/02 15:02:00
Expiration Time: 05/21/02 16:32:00
Status: Message Auto Forwarded
EAS Header: ZCZC-CIV-CEM-018097+0130-1412002- WIBM/PC-
EAS Translation: Civil Authorities has issued a Civil Emergency Message for the following counties: Marion IN, in effect until 05/21/02 16:32:00
Audio Message Length: 099 seconds.
EOM Received: 05/21/02 15:04:00

Transmit Log 05/21/02 15:04:02
Retransmit EAS Message.
Originator: Civil Authorities
Event: Civil Emergency Message
Origination Time: 05/21/02 15:02:00
Expiration Time: 05/21/02 16:32:00
Status: Message Auto Forwarded
EAS Header: ZCZC-CIV-CEM-018097+0130-1412002-EASYPLUS-
EAS Translation: Civil Authorities has issued a Civil Emergency Message for the following counties: Marion IN, in effect until 05/21/02 16:32:00
Audio Message Length: 099 seconds.

Receive Log 05/21/02 15:12:14
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Practice/Demo Warning
Origination Time: 05/21/02 15:12:00
Expiration Time: 05/21/02 15:27:00
Status: Event Not Selected by User
EAS Header: ZCZC-EAS-DMO-018003-039021-039039-018035-018039-018000-039079-018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-1412012-WIBM/PC-

Receive Log 05/21/02 15:12:54
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:13:06
EAS Message Received from Audio Channel: 5.
Originator: Civil Authorities
Event: Evacuation Immediate
Origination Time: 05/21/02 15:13:00
Expiration Time: 05/21/02 19:43:00
Status: Locations Not Selected by User
EAS Header: ZCZC-CIV-EVI-018015-039021-039039+0430-1412013- WIBM/PC-

Receive Log 05/21/02 15:14:57
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:15:28
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Flash Flood Watch
Origination Time: 05/21/02 15:15:00
Expiration Time: 05/21/02 18:45:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-FFA-018097-018141-018157+0330-1412015- WIBM/PC-

Receive Log 05/21/02 15:16:20
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:16:45
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Flash Flood Statement
Origination Time: 05/21/02 15:16:00
Expiration Time: 05/21/02 16:16:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-FFS-018029-018097-018141-018157+0100-1412016- WIBM/PC-

Receive Log 05/21/02 15:17:37
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:18:09
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Flash Flood Warning
Origination Time: 05/21/02 15:18:00
Expiration Time: 05/21/02 16:48:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-FFW-018015-039039-018097-018141-018157+0130-1412018- WIBM/PC-
EAS Translation: National Weather Service has issued a Flash Flood Warning for the
following counties: Carroll IN, Defiance OH, Marion IN, St. Joseph IN, Tippecanoe
IN, in effect until 05/21/02 16:48:00
Audio Message Length: 039 seconds.
EOM Received: 05/21/02 15:19:02

Transmit Log 05/21/02 15:19:04
 Retransmit EAS Message.
 Originator: National Weather Service
Event: Flash Flood Warning
 Origination Time: 05/21/02 15:18:00
 Expiration Time: 05/21/02 16:48:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-FFW-018015-039039-018097-018141-018157+0130-1412018-EASYPLUS-
 EAS Translation: National Weather Service has issued a Flash Flood Warning for the
 following counties: Carroll IN, Defiance OH, Marion IN, St. Joseph IN, Tippecanoe
 IN, in effect until 05/21/02 16:48:00
 Audio Message Length: 039 seconds.

 Receive Log 05/21/02 15:20:30
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Flood Watch
 Origination Time: 05/21/02 15:20:00
 Expiration Time: 05/21/02 18:20:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-FLA-018015-018029-018039-018097-018141-018157-039159+0300-
 1412020- WIBM/PC-

 Receive Log 05/21/02 15:21:56
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:22:09
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Flood Statement
 Origination Time: 05/21/02 15:22:00
 Expiration Time: 05/21/02 16:22:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-FLS-018097-018141-018157+0100-1412022- WIBM/PC-

 Receive Log 05/21/02 15:24:02
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:24:31
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Flood Warning
 Origination Time: 05/21/02 15:24:00
 Expiration Time: 05/21/02 17:54:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-FLW-018097+0230-1412024- WIBM/PC-
 EAS Translation: National Weather Service has issued a Flood Warning for the
 following counties: Marion IN, in effect until 05/21/02 17:54:00
 Audio Message Length: 024 seconds.
 EOM Received: 05/21/02 15:25:08

Transmit Log 05/21/02 15:25:10
 Retransmit EAS Message.
 Originator: National Weather Service
Event: Flood Warning
 Origination Time: 05/21/02 15:24:00
 Expiration Time: 05/21/02 17:54:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-FLW-018097+0230-1412024-EASYPLUS-
 EAS Translation: National Weather Service has issued a Flood Warning for the
 following counties: Marion IN, in effect until 05/21/02 17:54:00
 Audio Message Length: 024 seconds.

 Receive Log 05/21/02 15:29:50
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Hurricane Statement
 Origination Time: 05/21/02 15:29:00
 Expiration Time: 05/21/02 20:59:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-HLS-018029-018035-018039-018097-018107-018141-039151-018155-
 018157-039159-039161-018169-039169+0530-1412029- WIBM/PC-

 Receive Log 05/21/02 15:30:28
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:30:56
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Hurricane Watch
 Origination Time: 05/21/02 15:30:00
 Expiration Time: 05/21/02 20:30:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-HUA-039021-039079-018097-039151-039155+0500-1412030- WIBM/PC-

 Receive Log 05/21/02 15:32:25
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:35:20
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Hurricane Warning
 Origination Time: 05/21/02 15:35:00
 Expiration Time: 05/21/02 17:35:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-HUW-039079-018097-039155+0200-1412035- WIBM/PC-
 EAS Translation: National Weather Service has issued a Hurricane Warning for the
 following counties: Jackson OH, Marion IN, Trumbull OH, in effect until 05/21/02
 17:35:00 Audio Message Length: 099 seconds.
 EOM Received: 05/21/02 15:37:13

 Transmit Log 05/21/02 15:37:15
 Retransmit EAS Message.
 Originator: National Weather Service
Event: Hurricane Warning
 Origination Time: 05/21/02 15:35:00
 Expiration Time: 05/21/02 17:35:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-HUW-039079-018097-039155+0200-1412035-EASYPLUS-
 EAS Translation: National Weather Service has issued a Hurricane Warning for the
 following counties: Jackson OH, Marion
 IN, Trumbull OH, in effect until 05/21/02 17:35:00
 Audio Message Length: 099 seconds.

Receive Log 05/21/02 15:41:03
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: High Wind Watch
Origination Time: 05/21/02 15:40:00
Expiration Time: 05/21/02 18:10:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-HWA-018097+0230-1412040- WIBM/PC-

Receive Log 05/21/02 15:41:56
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:42:28
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: High Wind Warning
Origination Time: 05/21/02 15:42:00
Expiration Time: 05/21/02 16:42:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-HWW-018097+0100-1412042- WIBM/PC-
EAS Translation: National Weather Service has issued a High Wind Warning for the following counties: Marion IN, in effect until 05/21/02 16:42:00
Audio Message Length: 007 seconds.
EOM Received: 05/21/02 15:42:49

Transmit Log 05/21/02 15:42:51
Retransmit EAS Message.
Originator: National Weather Service
Event: High Wind Warning
Origination Time: 05/21/02 15:42:00
Expiration Time: 05/21/02 16:42:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-HWW-018097+0100-1412042-EASYPLUS-
EAS Translation: National Weather Service has issued a High Wind Warning for the following counties: Marion IN, in effect until 05/21/02 16:42:00
Audio Message Length: 007 seconds.

Receive Log 05/21/02 15:44:23
EAS Message Received from Audio Channel: 5.
Originator: Primary Entry Point System
Event: National Information Center
Origination Time: 05/21/02 15:44:00
Expiration Time: 05/21/02 16:44:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-NIC-018000-018097+0100-1412044- WIBM/PC-
EAS Translation: Primary Entry Point System has issued a National Information Center for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 16:44:00
Audio Message Length: 023 seconds.
EOM Received: 05/21/02 15:44:59

Transmit Log 05/21/02 15:45:01
Retransmit EAS Message.
Originator: Primary Entry Point System
Event: National Information Center
Origination Time: 05/21/02 15:44:00
Expiration Time: 05/21/02 16:44:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-NIC-018000-018097+0100-1412044-EASYPLUS-
EAS Translation: Primary Entry Point System has issued a National Information Center for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 16:44:00
Audio Message Length: 023 seconds.

Receive Log 05/21/02 15:46:33
EAS Message Received from Audio Channel: 5.
Originator: Primary Entry Point System
Event: National Periodic Test
Origination Time: 05/21/02 15:46:00
Expiration Time: 05/21/02 16:46:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-NPT-018000-018097-018141-018157-039157+0100-1412046- WIBM/PC-
EAS Translation: Primary Entry Point System has issued a National Periodic Test for
the following counties: State of Indiana , Marion IN, St. Joseph IN, Tippecanoe IN,
Tuscarawas OH, in effect until 05/21/02 16:46:00
Audio Message Length: 022 seconds.
EOM Received: 05/21/02 15:47:09

Transmit Log 05/21/02 15:47:11
Retransmit EAS Message.
Originator: Primary Entry Point System
Event: National Periodic Test
Origination Time: 05/21/02 15:46:00
Expiration Time: 05/21/02 16:46:00
Status: Message Auto Forwarded
EAS Header: ZCZC-PEP-NPT-018000-018097-018141-018157-039157+0100-1412046-EASYPLUS-
EAS Translation: Primary Entry Point System has issued a National Periodic Test for
the following counties: State of Indiana , Marion IN, St. Joseph IN, Tippecanoe IN,
Tuscarawas OH, in effect until 05/21/02 16:46:00
Audio Message Length: 022 seconds.

Receive Log 05/21/02 15:48:40
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Special Weather Statement
Origination Time: 05/21/02 15:48:00
Expiration Time: 05/21/02 16:18:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-SPS-018039-018097-018113-039153-039155+0030-1412048- WIBM/PC-

Receive Log 05/21/02 15:50:07
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:50:35
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Severe Thunderstorm Watch
Origination Time: 05/21/02 15:50:00
Expiration Time: 05/21/02 17:50:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-SVA-018097-018113-018141+0200-1412050- WIBM/PC-

Receive Log 05/21/02 15:52:27
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 15:56:06
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Severe Thunderstorm Warning
Origination Time: 05/21/02 15:55:00
Expiration Time: 05/21/02 16:40:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-SVR-018015-018097-039155-039159+0045-1412055- WIBM/PC-
EAS Translation: National Weather Service has issued a Severe Thunderstorm Warning
for the following counties: Carroll IN, Marion IN, Trumbull OH, Union OH, in effect
until 05/21/02 16:40:00
Audio Message Length: 005 seconds.

EOM Received: 05/21/02 15:56:24

 Transmit Log 05/21/02 15:56:26
 Retransmit EAS Message.
 Originator: National Weather Service
Event: Severe Thunderstorm Warning
 Origination Time: 05/21/02 15:55:00
 Expiration Time: 05/21/02 16:40:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-SVR-018015-018097-039155-039159+0045-1412055-EASYPLUS-
 EAS Translation: National Weather Service has issued a Severe Thunderstorm Warning
 for the following counties: Carroll IN, Marion IN, Trumbull OH, Union OH, in effect
 until 05/21/02 16:40:00
 Audio Message Length: 005 seconds.

 Receive Log 05/21/02 15:57:01
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Severe Weather Statement
 Origination Time: 05/21/02 15:56:00
 Expiration Time: 05/21/02 16:56:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-SVS-018097-018113-018141+0100-1412056- WIBM/PC-

 Receive Log 05/21/02 15:57:24
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:57:56
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Tornado Watch
 Origination Time: 05/21/02 15:57:00
 Expiration Time: 05/21/02 16:42:00
Status: Event Not Selected by User
 EAS Header: ZCZC-WXR-TOA-018097+0045-1412057- WIBM/PC-

 Receive Log 05/21/02 15:58:32
 EAS Message Received from Audio Channel: 5.
 EOM Received: NNNN

 Receive Log 05/21/02 15:58:46
 EAS Message Received from Audio Channel: 5.
 Originator: National Weather Service
Event: Tornado Warning
 Origination Time: 05/21/02 15:58:00
 Expiration Time: 05/21/02 16:28:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-TOR-018097+0030-1412058- WIBM/PC-
 EAS Translation: National Weather Service has issued a Tornado Warning for the
 following counties: Marion IN, in effect until 05/21/02 16:28:00
 Audio Message Length: 022 seconds.
 EOM Received: 05/21/02 15:59:22

 Transmit Log 05/21/02 15:59:24
 Retransmit EAS Message.
 Originator: National Weather Service
Event: Tornado Warning
 Origination Time: 05/21/02 15:58:00
 Expiration Time: 05/21/02 16:28:00
Status: Message Auto Forwarded
 EAS Header: ZCZC-WXR-TOR-018097+0030-1412058-EASYPLUS-
 EAS Translation: National Weather Service has issued a Tornado Warning for the
 following counties: Marion IN, in effect until 05/21/02 16:28:00
 Audio Message Length: 022 seconds.

Receive Log 05/21/02 16:00:23
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Tsunami Watch
Origination Time: 05/21/02 16:00:00
Expiration Time: 05/21/02 21:00:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-TSA-039039-018000-018097+0500-1412100- WIBM/PC-

Receive Log 05/21/02 16:00:59
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 16:01:13
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Tsunami Warning
Origination Time: 05/21/02 16:01:00
Expiration Time: 05/21/02 18:31:00
Status: Locations Not Selected by User
EAS Header: ZCZC-WXR-TSW-018015-018029-018097+0230-1412101- WIBM/PC-

Receive Log 05/21/02 16:02:05
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 16:02:23
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Winter Storm Watch
Origination Time: 05/21/02 16:02:00
Expiration Time: 05/21/02 18:32:00
Status: Event Not Selected by User
EAS Header: ZCZC-WXR-WSA-018000-018097-039151-018155+0230-1412102- WIBM/PC-

Receive Log 05/21/02 16:03:50
EAS Message Received from Audio Channel: 5.
EOM Received: NNNN

Receive Log 05/21/02 16:04:22
EAS Message Received from Audio Channel: 5.
Originator: National Weather Service
Event: Winter Storm Warning
Origination Time: 05/21/02 16:04:00
Expiration Time: 05/21/02 16:34:00
Status: Message Auto Forwarded
EAS Header: ZCZC-WXR-WSW-018003-018015-039021-018029-039039-018035-018039-018000-
039079-018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-
039157-039159-039161-018165-039163-018169-039165-039167-039169-039171+0030-1412104-
WIBM/PC-
EAS Translation: National Weather Service has issued a Winter Storm Warning for the
following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN, Defiance OH,
Delaware IN, Elkhart IN, State of Indiana , Jackson OH, Jefferson IN, Marion IN,
Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland
IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN,
Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne
OH, Williams OH, in effect until 05/21/02 16:34:00
Audio Message Length: 098 seconds.
EOM Received: 05/21/02 16:06:17

Transmit Log 05/21/02 16:06:19
Retransmit EAS Message.
Originator: National Weather Service

Event: Winter Storm Warning

Origination Time: 05/21/02 16:04:00

Expiration Time: 05/21/02 16:34:00

Status: Message Auto Forwarded

EAS Header: ZCZC-WXR-WSW-018003-018015-039021-018029-039039-018035-018039-018000-039079-018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-039163-018169-039165-039167-039169-039171+0030-1412104-EASYPLUS-

EAS Translation: National Weather Service has issued a Winter Storm Warning for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN, Defiance OH, Delaware IN, Elkhart IN, State of Indiana , Jackson OH, Jefferson IN, Marion IN, Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN, Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, in effect until 05/21/02 16:34:00

Audio Message Length: 098 seconds.

C) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 14:50:27 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A EMERGENCY ACTION NOTIFICATION
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
UNTIL 19:50 EST
JULIAN DATE: 141 TIME: 14:50 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - EAN

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 14:55:14 EST

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 14:55:21 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 14:55:50 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A EMERGENCY ACTION TERMINATION
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
UNTIL 15:10 EST
JULIAN DATE: 141 TIME: 14:55 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 4.2 Seconds
ALERT MESSAGE STORED

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 14:56:15 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 14:57:25 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN Noble IN
UNTIL 15:56 EST
JULIAN DATE: 141 TIME: 14:56 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 22.3 Seconds
ALERT MESSAGE STORED

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 14:58:08 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:01:13 EST
NATIONAL WEATHER SERVICE ALERT
A BLIZZARD WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN Newton IN
Switzerland IN
UNTIL 15:45 EST
JULIAN DATE: 141 TIME: 15:00 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:01:43 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:04:03 EST
A CIVIL AUTHORITY ALERT
A CIVIL EMERGENCY MESSAGE
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 16:32 EST
JULIAN DATE: 141 TIME: 15:02 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:06:01 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:19:05 EST
NATIONAL WEATHER SERVICE ALERT
A FLASH FLOOD WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Carroll IN Defiance OH
Marion IN St. Joseph IN
Tippecanoe IN
UNTIL 16:48 EST
JULIAN DATE: 141 TIME: 15:18 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:20:04 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:25:11 EST
NATIONAL WEATHER SERVICE ALERT
A FLOOD WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 17:54 EST
JULIAN DATE: 141 TIME: 15:24 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:25:53 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:37:16 EST
NATIONAL WEATHER SERVICE ALERT
A HURRICANE WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Jackson OH Marion IN
Trumbull OH
UNTIL 17:35 EST
JULIAN DATE: 141 TIME: 15:35 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:39:15 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:42:52 EST
NATIONAL WEATHER SERVICE ALERT
A HIGH WIND WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 16:42 EST
JULIAN DATE: 141 TIME: 15:42 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:43:19 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:45:02 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A NATIONAL INFORMATION CENTER MESSAGE
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
UNTIL 16:44 EST
JULIAN DATE: 141 TIME: 15:44 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:45:45 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:47:13 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A NATIONAL PERIODIC TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
St. Joseph IN Tippecanoe IN
Tuscarawas OH
UNTIL 16:46 EST
JULIAN DATE: 141 TIME: 15:46 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:47:56 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:56:27 EST
NATIONAL WEATHER SERVICE ALERT
A SEVERE THUNDER STORM WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Carroll IN Marion IN
Trumbull OH Union OH
UNTIL 16:40 EST
JULIAN DATE: 141 TIME: 15:55 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 15:56:52 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 15:59:26 EST
NATIONAL WEATHER SERVICE ALERT
A TORNADO WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Marion IN
UNTIL 16:28 EST
JULIAN DATE: 141 TIME: 15:58 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:00:08 EST

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 16:06:20 EST
NATIONAL WEATHER SERVICE ALERT
A WINTER STORM WARNING
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen IN Carroll IN
Champaign OH Dearborn IN
Defiance OH Delaware IN
Elkhart IN Entire State IN
Jackson OH Jefferson IN
Marion IN Montgomery IN
Newton IN Noble IN
St. Joseph IN Stark OH
Summit OH Switzerland IN
Tippecanoe IN Trumbull OH
Tuscarawas OH Union OH
Van Wert OH Vermillion IN
Vinton OH Wabash IN
Warren OH Washington OH
Wayne OH Williams OH
UNTIL 16:34 EST
JULIAN DATE: 141 TIME: 16:04 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - NOT PRESELECTED HEADER

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:08:29 EST

7.8 EAN Override / EAN Timeout Override results

A) EAS Encoder Log

```
***** EAS ALERT SENT BY WENC/01 *****
SENT      5/21/2002 16:15:18 EST
BROADCAST STATION ALERT
A REQUIRED MONTHLY TEST
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Allen      IN      Carroll      IN
Champaign  OH      Dearborn   IN
Defiance   OH      Delaware   IN
Elkhart    IN      Jackson    OH
Jefferson  IN      Marion     IN
Montgomery IN      Newton     IN
Noble      IN      St. Joseph IN
Stark      OH      Summit     OH
Switzerland IN    Tippecanoe IN
Trumbull   OH      Tuscarawas OH
Union      OH      Van Wert   OH
Vermillion IN      Vinton     OH
Wabash     IN      Warren     OH
Washington OH      Wayne      OH
Williams   OH      Wood       OH
Wyandot    OH
UNTIL 16:30 EST
JULIAN DATE: 141 TIME: 16:15 EST
ORIGINATING STATION: WENC/01
RECORDED VOICE MSG      0.0 Seconds
*****
```

```
***** EOM SENT BY WENC/01 *****
SENT      5/21/2002 16:17:46 EST
```

B) Notebook PC Encoding Log

```
12/30/99-4:15:52 PM- Wincoder:Send Un-Edited Alert
Event = Emergency Action Notification
Originator = PEP
Duration = 05:00
Station ID = WIBM/PC
Counties = Entire State, IN-Marion, IN-
EAS Protocol Text...
ZCZC-PEP-EAN-018000-018097+0500-1412115- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:15:52 PM: Sending Header FSK
4:15:59 PM: Sending Attention Tone
4:16:08 PM: User Aborted Sequence
```

```
12/30/99-4:17:35 PM- Wincoder:Send EOM
4:17:36 PM: Sending EOM FSK
```

Note: testing personnel aborted sequence before EOM, manually sent EOM later to extend the EAN message length.

12/30/99-4:19:07 PM- Wincoder:Send Un-Edited Alert

Event = Required Monthly Test

Originator = EAS

Duration = 01:00

Station ID = WIBM/PC

VoiceFile = C:\Waves\Usable\Long-dmo.wav

Counties = Allen, IN-Carroll, IN-Champaign, OH-Dearborn, IN-Defiance, OH-Delaware, IN-Elkhart, IN-Entire State, IN-Jackson, OH-Jefferson, IN-Marion, IN-Montgomery, IN-EAS Protocol Text...

ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-018000-039079-018077-018097-018107+0100-1412119- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

4:19:08 PM: Sending Header FSK

4:19:17 PM: Sending Attention Tone

4:19:26 PM: Sending Voice Message

4:19:31 PM: User Aborted Sequence

Note: testing personnel aborted sequence before EOM, leaving the RMT without an EOM.

12/30/99-4:19:37 PM- Wincoder:Send Un-Edited Alert

Event = Emergency Action Notification

Originator = PEP

Duration = 05:00

Station ID = WIBM/PC

Counties = Entire State, IN-Marion, IN-

EAS Protocol Text...

ZCZC-PEP-EAN-018000-018097+0500-1412119- WIBM/PC-

BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds

Bit 7 masked to 0 except on preamble

4:19:37 PM: Sending Header FSK

4:19:43 PM: Sending Attention Tone

4:19:49 PM: User Aborted Sequence

12/30/99-4:22:33 PM- Wincoder:Send EOM

4:22:33 PM: Sending EOM FSK

Note: testing personnel aborted sequence before EOM, manually sent EOM later to extend the EAN message length.

C) EUT Log

Receive Log 05/21/02 16:15:32

EAS Message Received from Audio Channel: 6.
Originator: Broadcast Station or Cable System

Event: Required Monthly Test

Origination Time: 05/21/02 16:15:00

Expiration Time: 05/21/02 16:30:00

Status: Message Overwritten by Higher Priority

EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-039079-018077-018097-018107-018111-018113-018141-039151-039153-018155-018157-039155-039157-039159-039161-018165-039163-018169-039165-039167-039169-039171-039173-039175+0015-1412115-WENC/01 -

EAS Translation: Broadcast Station or Cable System has issued a Required Monthly Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN, Defiance OH, Delaware IN, Elkhart IN, Jackson OH, Jefferson IN, Marion IN, Montgomery IN, Newton IN, Noble IN, St. Joseph IN, Stark OH, Summit OH, Switzerland IN, Tippecanoe IN, Trumbull OH, Tuscarawas OH, Union OH, Van Wert OH, Vermillion IN, Vinton OH, Wabash IN, Warren OH, Washington OH, Wayne OH, Williams OH, Wood OH, Wyandot OH, in effect until 05/21/02 16:30:00

Audio Message Length: 000 seconds.

EOM Received: 05/21/02 16:15:58

Receive Log 05/21/02 16:15:58

EAS Message Received from Audio Channel: 5.
Originator: Primary Entry Point System

Event: Emergency Action Notification

Origination Time: 05/21/02 16:15:00

Expiration Time: 05/21/02 21:15:00

Status: Message Auto Forwarded

EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1412115- WIBM/PC-

EAS Translation: Primary Entry Point System has issued an Emergency Action Notification for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 21:15:00

Audio Message Length: Live Audio Patch.

Transmit Log 05/21/02 16:15:58

Retransmit EAS Message.

Originator: Primary Entry Point System

Event: Emergency Action Notification

Origination Time: 05/21/02 16:15:00

Expiration Time: 05/21/02 21:15:00

Status: Message Auto Forwarded

EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1412115-EASYPLUS-

EAS Translation: Primary Entry Point System has issued an Emergency Action Notification for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 21:15:00

Audio Message Length: 086 seconds.

Receive Log 05/21/02 16:17:45

EAS Message Received from Audio Channel: 6.
EOM Received: NNNN

Receive Log 05/21/02 16:19:15

EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System

Event: Required Monthly Test

Origination Time: 05/21/02 16:19:00

Expiration Time: 05/21/02 17:19:00

Status: Message Overwritten by Higher Priority

EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-018000-039079-018077-018097-018107+0100-1412119- WIBM/PC-

EAS Translation: Broadcast Station or Cable System has issued a Required Monthly Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN, Defiance OH, Delaware IN, Elkhart IN, State of Indiana , Jackson OH, Jefferson IN, Marion IN, Montgomery IN, in effect until 05/21/02 17:19:00

Audio Message Length: 000 seconds.

EOM Received: 05/21/02 16:19:43

Receive Log 05/21/02 16:19:43

EAS Message Received from Audio Channel: 5.

Originator: Primary Entry Point System

Event: Emergency Action Notification

Origination Time: 05/21/02 16:19:00

Expiration Time: 05/21/02 21:19:00

Status: Message Auto Forwarded

EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1412119- WIBM/PC-

EAS Translation: Primary Entry Point System has issued an Emergency Action Notification for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 21:19:00

Audio Message Length: Live Audio Patch.

Transmit Log 05/21/02 16:19:43

Retransmit EAS Message.

Originator: Primary Entry Point System

Event: Emergency Action Notification

Origination Time: 05/21/02 16:19:00

Expiration Time: 05/21/02 21:19:00

Status: Message Auto Forwarded

EAS Header: ZCZC-PEP-EAN-018000-018097+0500-1412119-EASYPLUS-

EAS Translation: Primary Entry Point System has issued an Emergency Action Notification for the following counties: State of Indiana , Marion IN, in effect until 05/21/02 21:19:00

Audio Message Length: 159 seconds.

C) EAS Decoder Log

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 16:15:59 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A EMERGENCY ACTION NOTIFICATION
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
UNTIL 21:15 EST
JULIAN DATE: 141 TIME: 16:15 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - EAN

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:17:44 EST

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:17:52 EST

Note: First EOM is from audio patch.

**** EAS ALERT RECEIVED BY WDEC/01 ****
CH# 1 RECEIVED 5/21/2002 16:19:44 EST
PRIMARY ENTRY POINT SYSTEM ALERT
A EMERGENCY ACTION NOTIFICATION
HAS BEEN ISSUED
FOR THE FOLLOWING COUNTIES:
Entire State IN Marion IN
UNTIL 21:19 EST
JULIAN DATE: 141 TIME: 16:19 EST
ORIGINATING STATION: EASYPLUS
RECORDED VOICE MSG 0.0 Seconds
NOT STORED - EAN

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:22:42 EST

***** EOM RECEIVED BY WDEC/01 *****
CH# 1 RECEIVED 5/21/2002 16:22:49 EST

Note: First EOM is from audio patch.

7.9 Automatic Reset Test Results

A) Notebook PC Encoding Log

12/30/99-4:29:07 PM- Wincoder:Send Composed/Edited Header
Event = Required Monthly Test
Originator = EAS
Duration = 01:00
Station ID = WIBM/PC
VoiceFile = C:\Waves\Usable\Long-dmo.wav
Counties = Allen, IN-Carroll, IN-Champaign, OH-Dearborn, IN-Defiance, OH-Delaware,
IN-Elkhart, IN-Entire State, IN-Jackson, OH-Jefferson, IN-Marion, IN-Montgomery, IN-
EAS Protocol Text...
ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-018000-039079-018077-
018097-018107+0100-1412128- WIBM/PC-
BAUD=520.83 Mark=2083.3Hz Space=1562.5Hz Inter-Burst Delay=1.000 Seconds
Bit 7 masked to 0 except on preamble
4:29:08 PM: Sending Header FSK
4:29:17 PM: Sending Attention Tone

Note: No EOM was sent.

B) EUT Log

Receive Log 05/21/02 16:29:15
EAS Message Received from Audio Channel: 5.
Originator: Broadcast Station or Cable System
Event: Required Monthly Test
Origination Time: 05/21/02 16:28:00
Expiration Time: 05/21/02 17:28:00
Status: Message Timed-out
EAS Header: ZCZC-EAS-RMT-018003-018015-039021-018029-039039-018035-018039-018000-
039079-018077-018097-018107+0100-1412128- WIBM/PC-
EAS Translation: Broadcast Station or Cable System has issued a Required Monthly
Test for the following counties: Allen IN, Carroll IN, Champaign OH, Dearborn IN,
Defiance OH, Delaware IN, Elkhart IN, State of Indiana , Jackson OH, Jefferson IN,
Marion IN, Montgomery IN, in effect until 05/21/02 17:28:00
Audio Message Length: 000 seconds.
