



**FCC CFR47 PART 95 REQUIREMENT  
CLASS II PERMISSIVE CHANGE  
CERTIFICATION REPORT**

**For**

**WMTS TRANSMITTER**

**MODEL: ZS-910PA**

**FCC ID: B6BZS-910PA**

**REPORT NUMBER: 06J10493-1, REVISION C**

**ISSUE DATE: AUGUST 28, 2006**

*Prepared for*  
**NIHON KOHDEN CORPORATION  
1-31-4, NISHIOCHIAI SHINJUKU-KU  
TOKYO 161-8560, JAPAN**

*Prepared by*  
**COMPLIANCE CERTIFICATION SERVICES  
561F MONTEREY ROAD  
MORGAN HILL, CA 95037, USA  
TEL: (408) 463-0885  
FAX: (408) 463-0888**

**NVLAP<sup>®</sup>**  
**LAB CODE:200065-0**

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	8/22/06	Initial Issue	Thu
B	8/25/06	Update EUT info under section 5, update section 9	Thu
C	8/28/06	Update section 9	Thu



### 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** NIHON KOHDEN CORPORATION  
1-31-4, NISHIOCHIAI SHINJUKU-KU  
TOKYO 161-8560, JAPAN

**EUT DESCRIPTION:** WMTS TRANSMITTER

**MODEL:** ZS-910PA

**SERIAL NUMBER:** 00143

**DATE TESTED:** AUGUST 11 TO 16, 2006

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 95 SUBPART H	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



THU CHAN  
EMC SUPERVISOR  
COMPLIANCE CERTIFICATION SERVICES

VIEN TRAN  
EMC ENGINEER  
COMPLIANCE CERTIFICATION SERVICES

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA/EIA 603C (2004), ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15 and FCC CFR 47 Part 95.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 4.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

## 5. EQUIPMENT UNDER TEST

### 5.1 DESCRIPTION OF EUT

- |                                |                                   |
|--------------------------------|-----------------------------------|
| a). Type of EUT:               | WMTS TRANSMITTER                  |
| b). Brand Name:                | NIHON KOHDEN                      |
| c). Model No:                  | ZS-910PA                          |
| d). FCC ID:                    | B6BZS-910PA                       |
| e). Power Supply:              | 1.5 VDC (AA)                      |
| f). Number of Channels:        | 479Channels                       |
| g). Frequency Range:           | 608.0125 ~ 613.9875 MHz.          |
| h). RF Conducted Output Power: | 1 mW                              |
| i). Channel Spacing:           | 25 KHz (12.5 KHz when interleave) |
| j). Type of Modulation:        | F1D                               |
| k). Antenna Type:              | Dedicated                         |

### 5.2 CLASS II CHANGE DESCRIPTION

To improve the antenna radiation level, the component C001 (220pF) was removed and a 50mm Wire was added.

### 5.3 MAXIMUM OUTPUT POWER

The transmitter has same maximum peak conducted output power as previous project.

### 5.4 SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Channel Writer Application rev. 1.0.1.0.

The EUT driver software installed in the host support equipment during testing was QI-901PK, rev. 02\_01.

The test utility software used during testing was Channel.exe.

### 5.5 WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power.

## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent / HP	E4446A	MY43360112	5/3/2007
Peak Power Meter	Agilent / HP	E4416A	GB41291160	12/2/2007
EMI Receiver, 9 kHz ~ 2.9 GHz	Agilent / HP	8542E	3942A00286	2/4/2007
RF Filter Section	Agilent / HP	85420E	3705A00256	2/4/2007
Antenna, Bilog 30 MHz ~ 2 Ghz	Sunol Sciences	JB1	A121003	9/3/2006
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00931	6/24/2007
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	4/22/2007

## 7. SETUP OF EQUIPMENT UNDER TEST

### SUPPORT EQUIPMENT

TEST PERIPHERALS				
Device Type	Manufacturer	Model Number	Serial Number	FCC ID
Channel Writer	Nihon Kohden	QI-901PK	1444	N/A
Laptop	HP	ZE 4205	N/A	DoC

### I/O CABLES

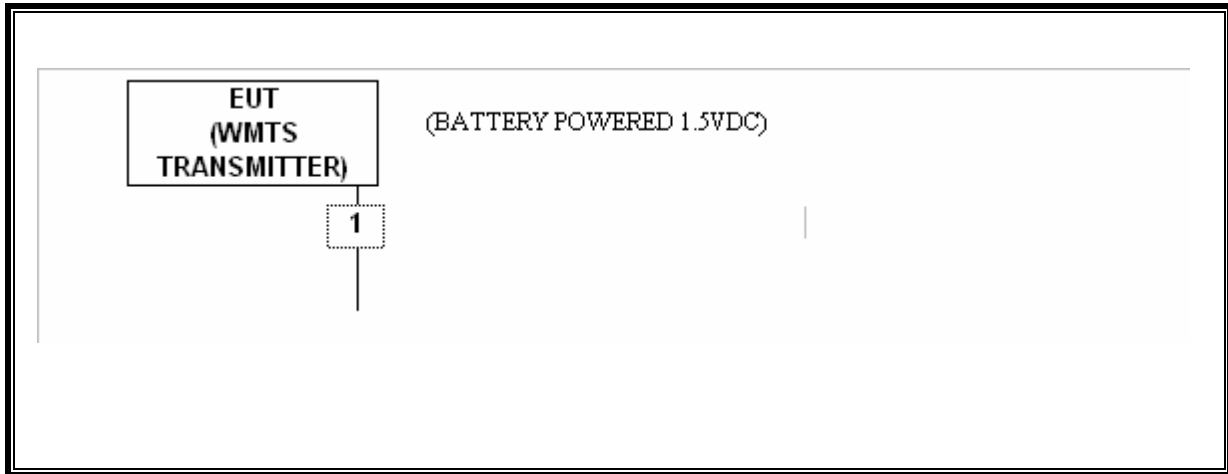
TEST I / O CABLES								
Cable No	I/O Port	# of I/O Port	Connector Type	Type of Cable	Cable Length	Data Traffic	Bundled	Remark
1	ECG	1	ECG	Un-shielded	.8m	Yes	No	Unterminated

### TEST SETUP

During the testing process the EUT was installed with one 1.5VDC battery (periodically changed to ensure 1.5 VDC output). The EUT was tested in the X, Y, and Z positions, Z was found to be worst case.



SETUP DIAGRAM FOR TEST



## 8. FIELD STRENGTH AND UNDESIRE EMISSIONS MEASUREMENT

### PROVISIONS APPLICABLE

According to CFR 47 section 95.1115 (a) & (b).

### LIMIT

#### (a) FUNDAMENTAL

FREQUENCY (MHz)	LIMIT (dBuV/m)
608-614	106 QUASI-PEAK

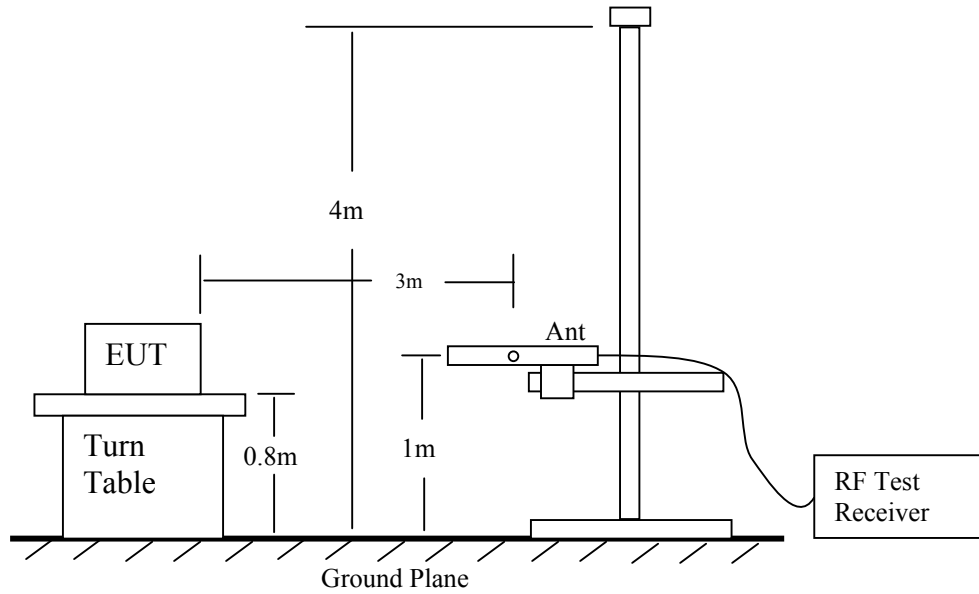
#### (b) SPURIOUS

FREQUENCY (MHz)	LIMIT (dBuV/m)
30-960	46 QUASI-PEAK
>960	54 AVERAGE

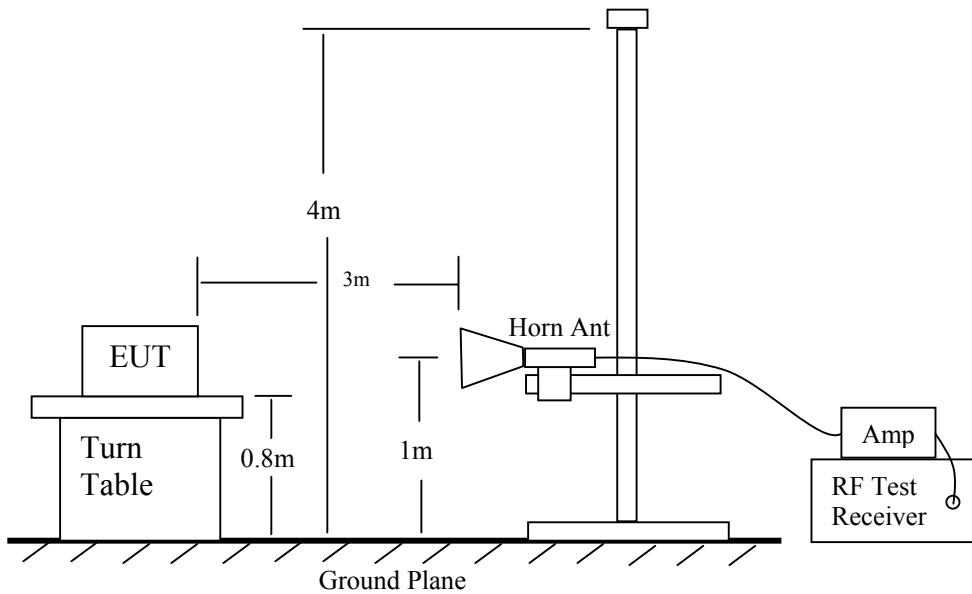
### TEST PROCEDURE

- 1). On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- 2). The test antenna shall be oriented initially for vertical and horizontal polarization located 3m from the EUT to correspond to the frequency of the transmitter.
- 3). The output of the test antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- 4). The transmitter shall be placed 0.80 meter above the ground plane, the X, Y, and Z positions shall be tested and the worst case reported. The transmitter shall be switched on with typical modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- 5). The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.

- 6). The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 7). The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 8). The maximum signal level detected by the measuring receiver shall be noted.



Radiated Emission Measurement 30 to 1000 MHz



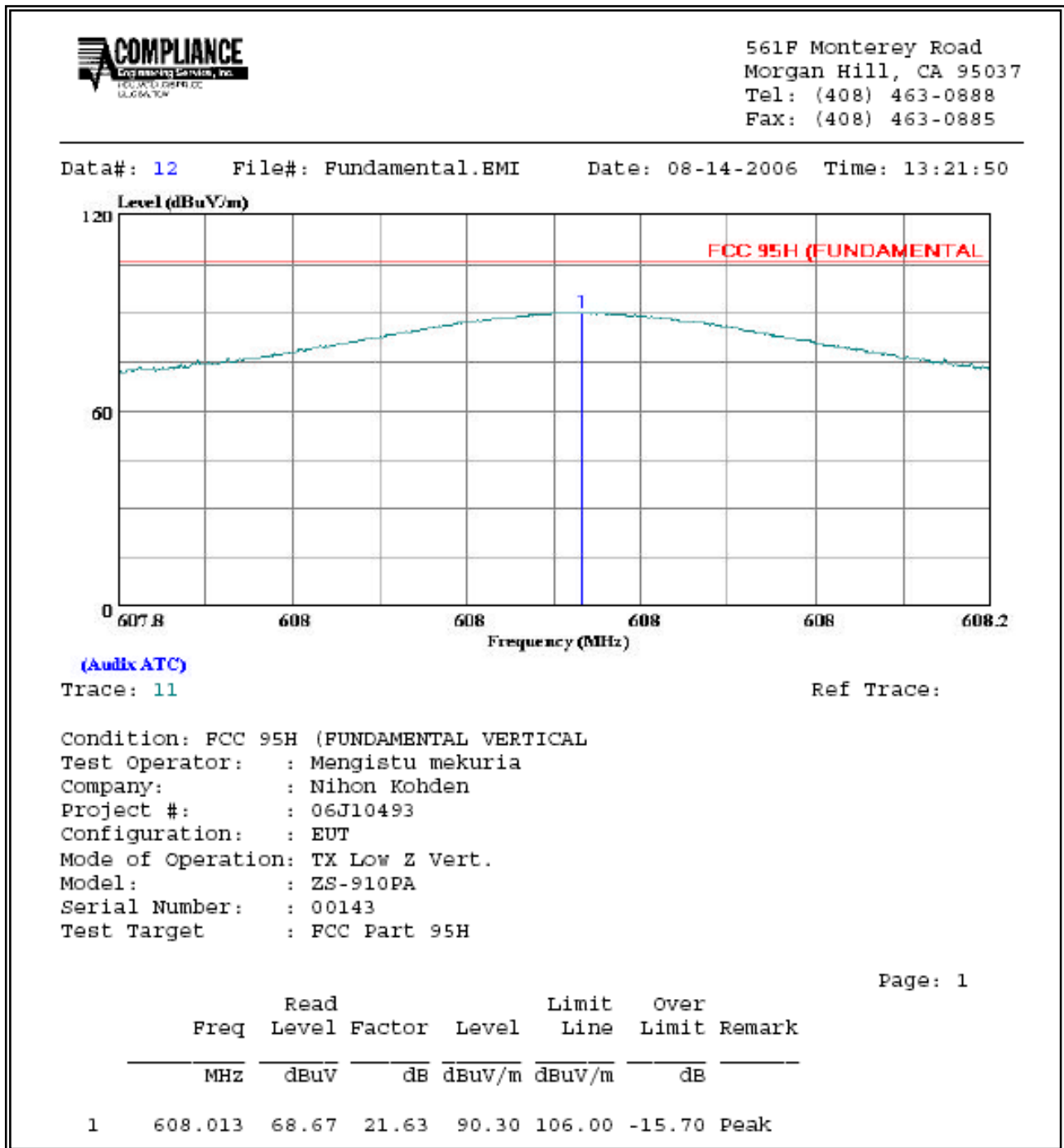
Radiated Emission above 1000 MHz

RESULT:

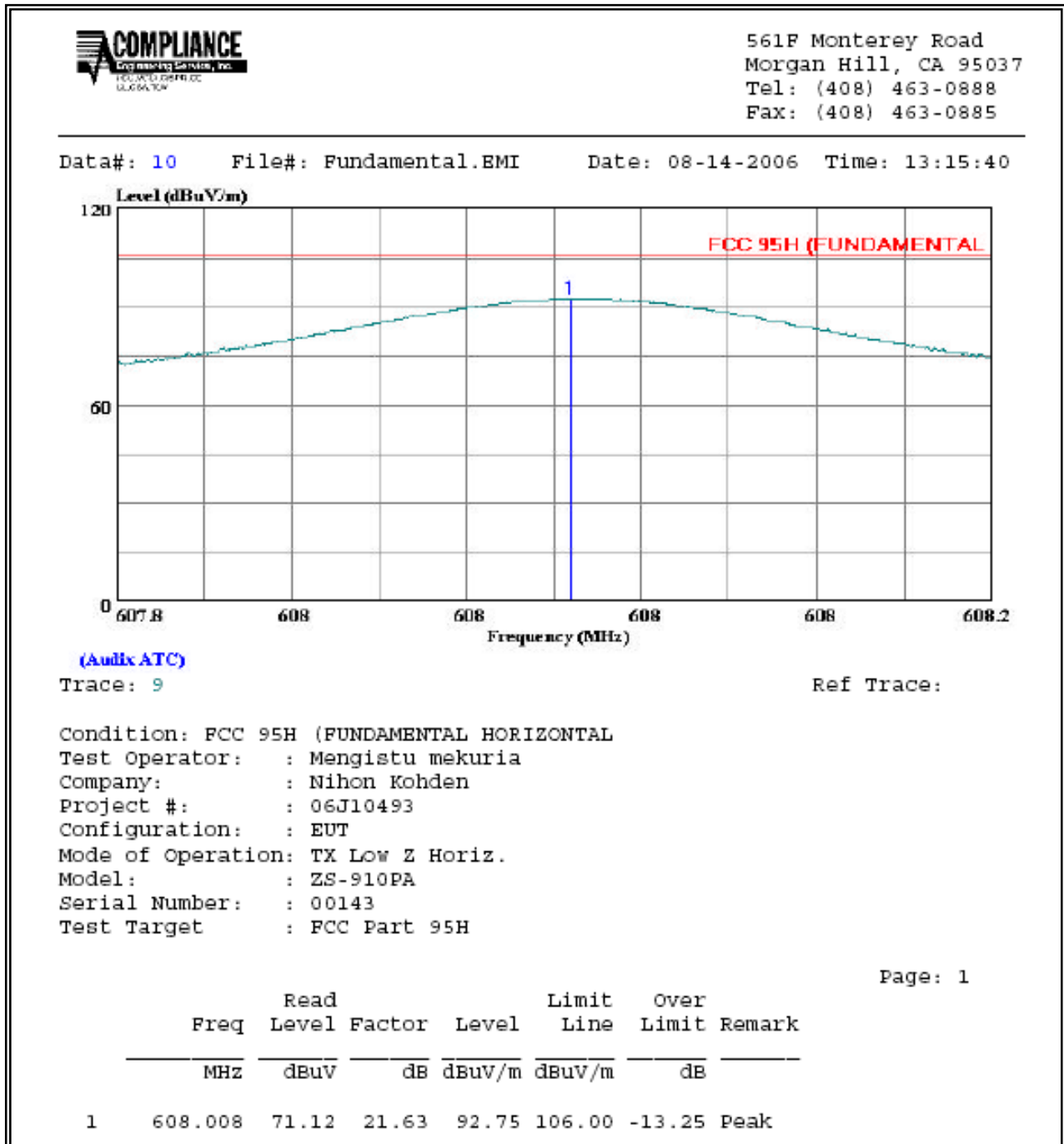
No non-compliance noted:

**FUNDAMENTAL**

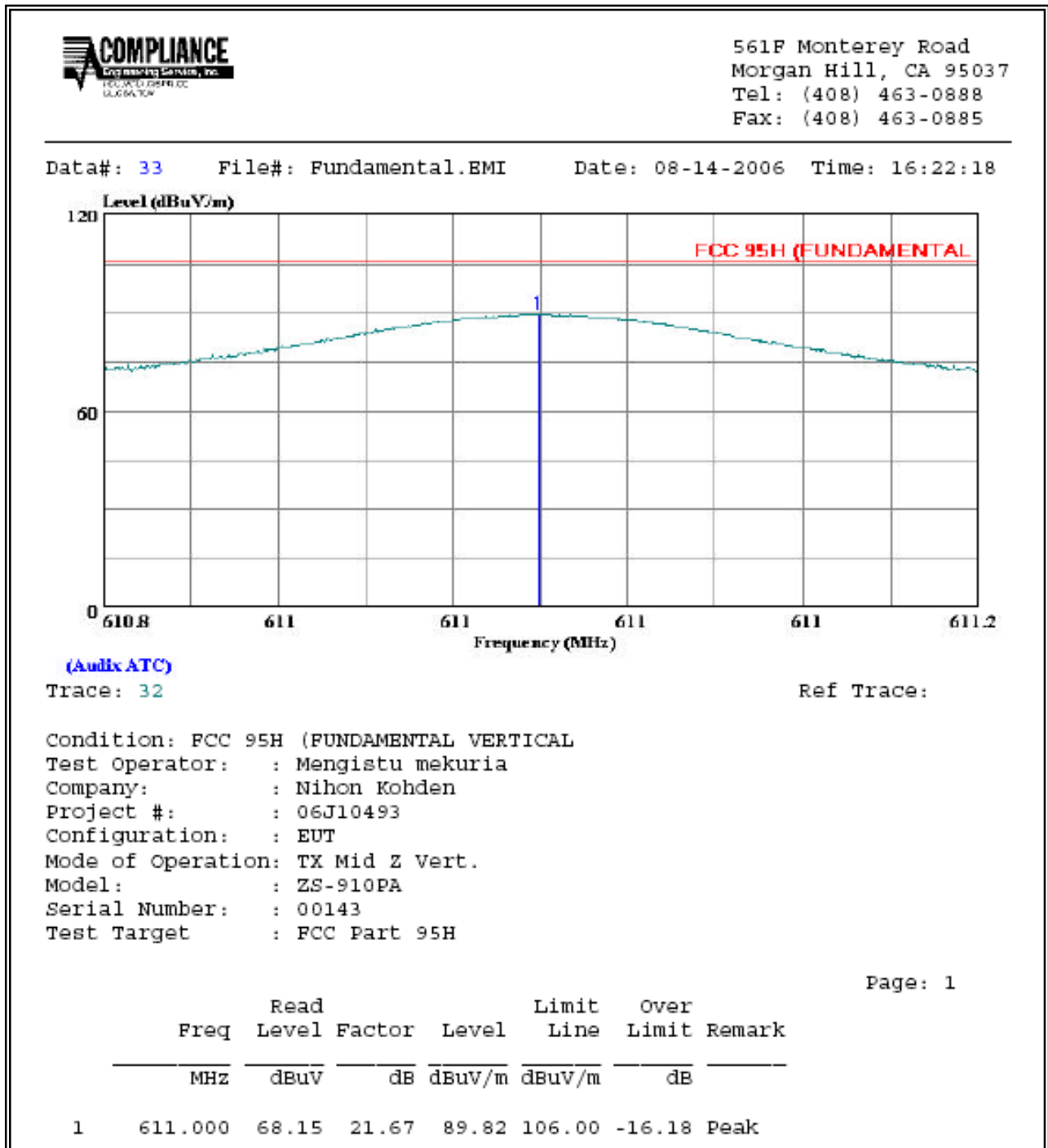
**95.1115 (a) LOW CHANNEL (VERTICAL)**



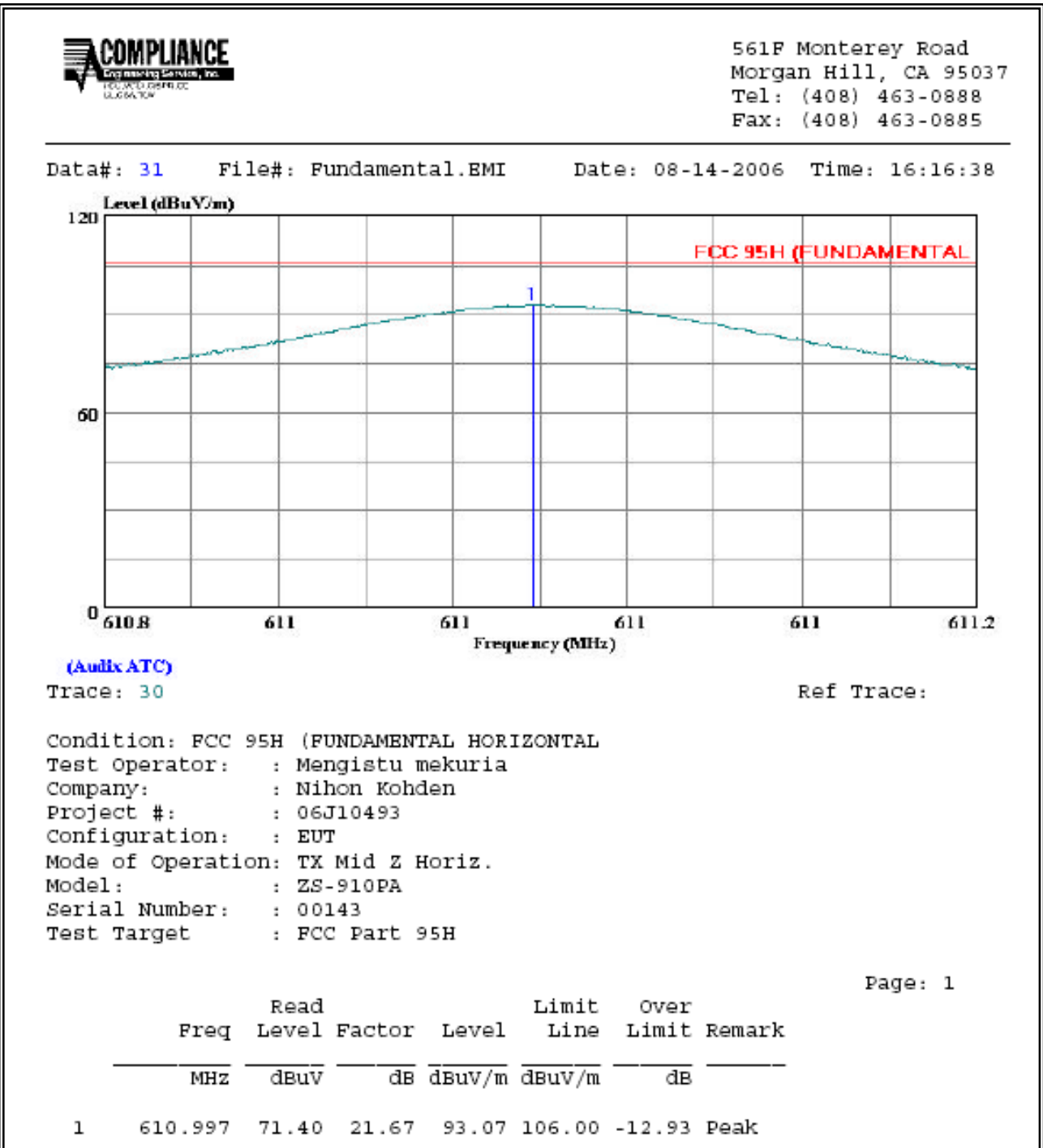
95.1115 (a) LOW CHANNEL (HORIZONTAL)



95.1115 (a) MIDDLE CHANNEL (VERTICAL)

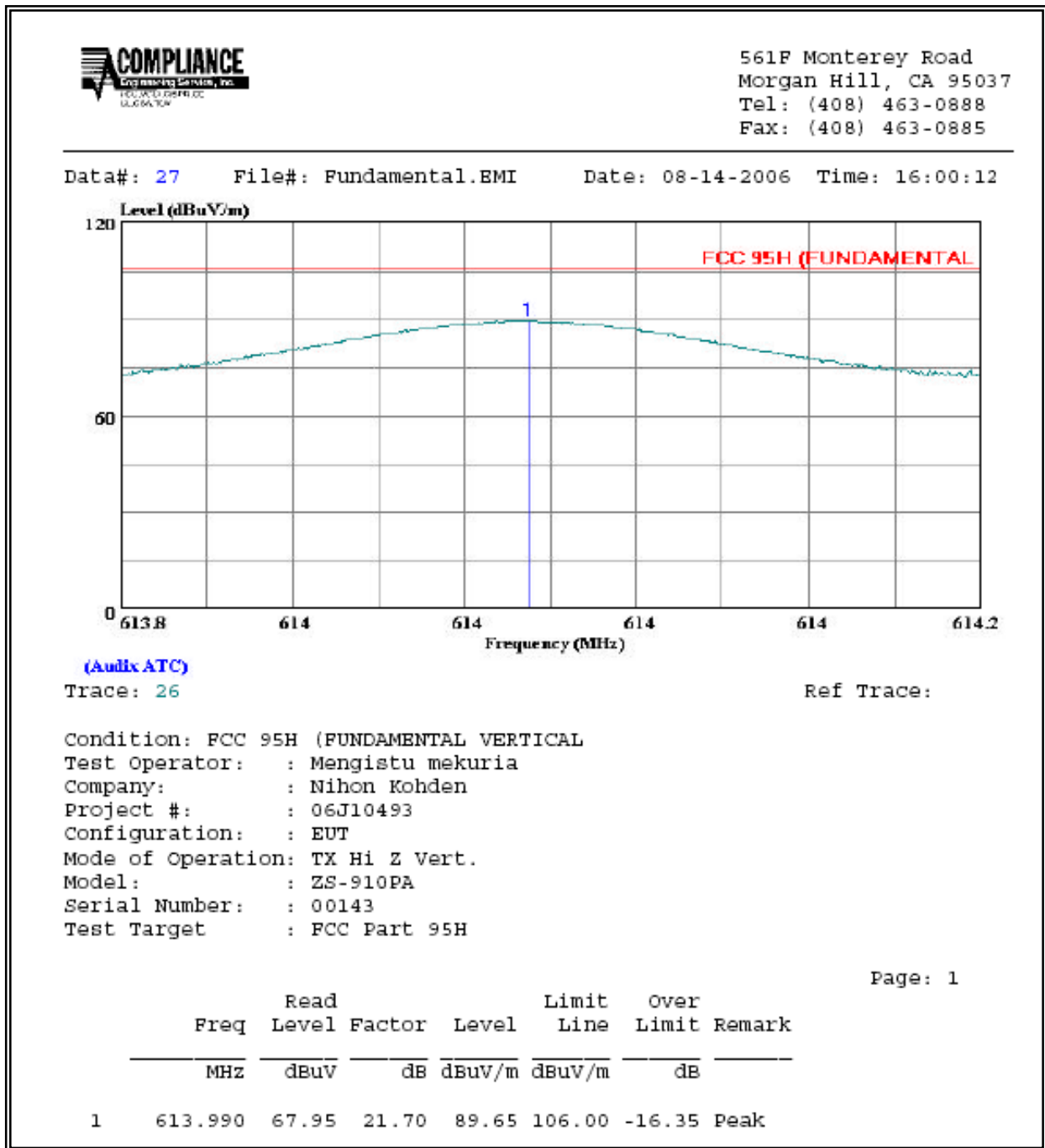


95.1115 (a) MIDDLE CHANNEL (HORIZONTAL)

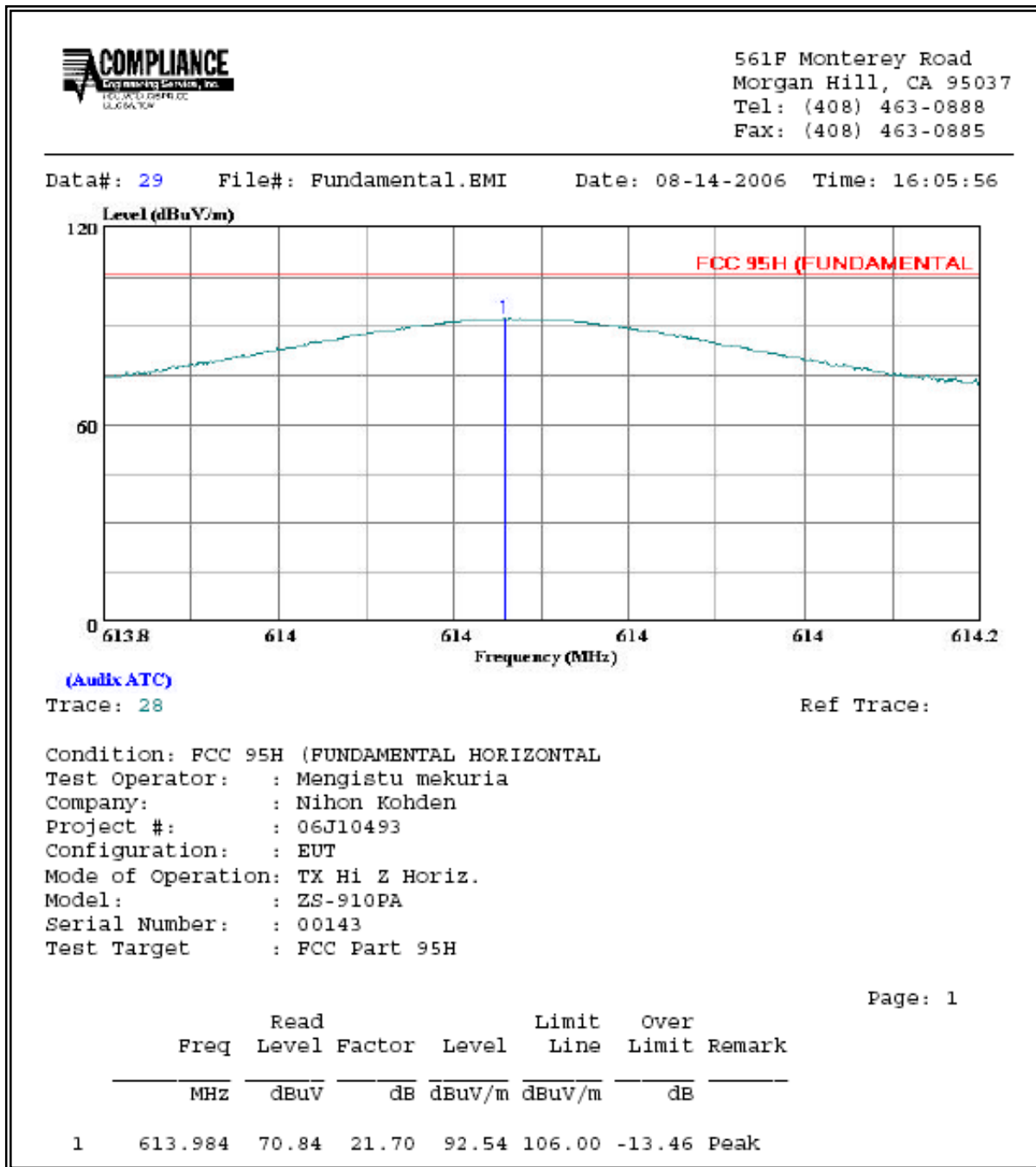




95.1115 (a) HIGH CHANNEL (VERTICAL)

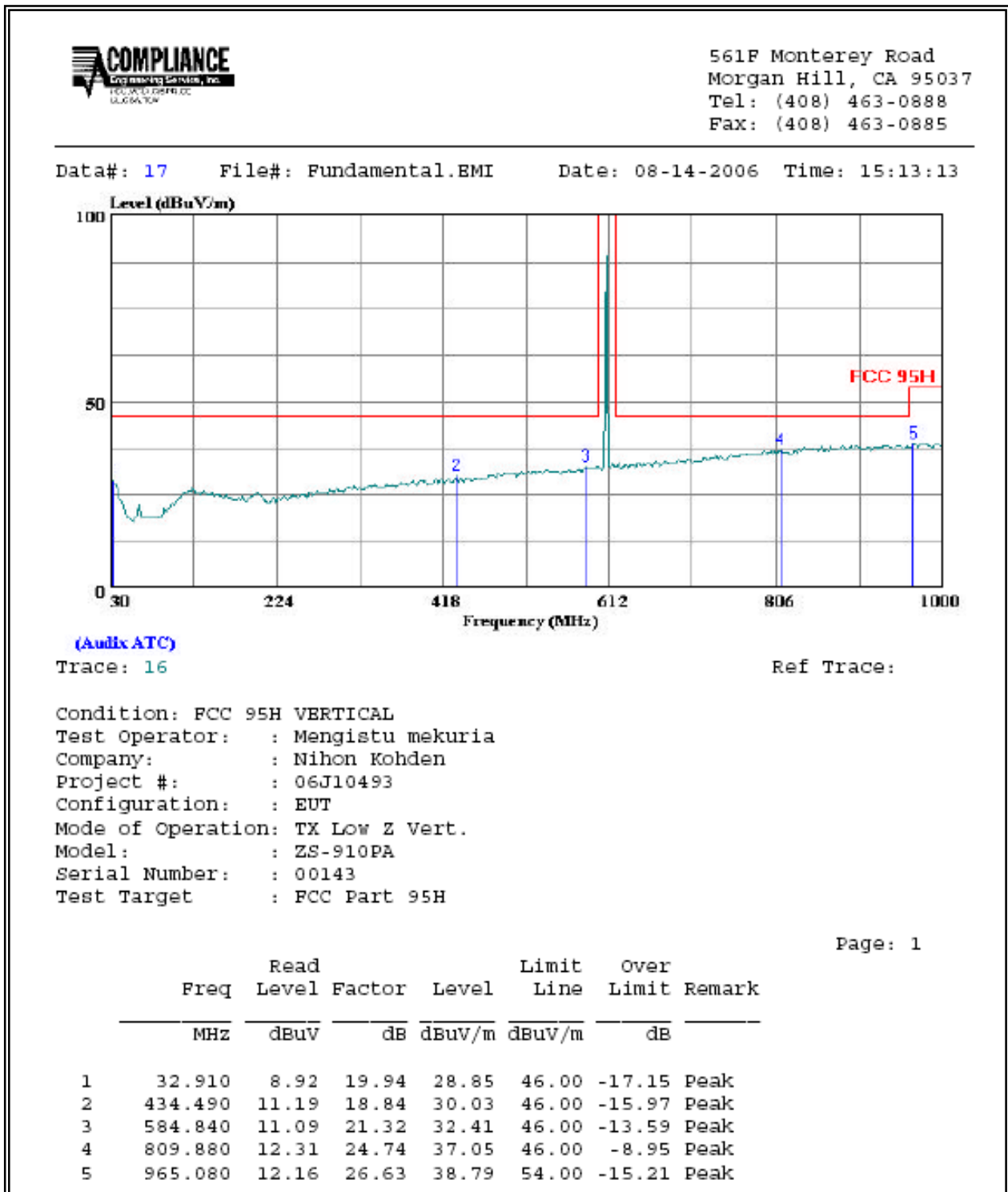


95.1115 (a) HIGH CHANNEL (HORIZONTAL)

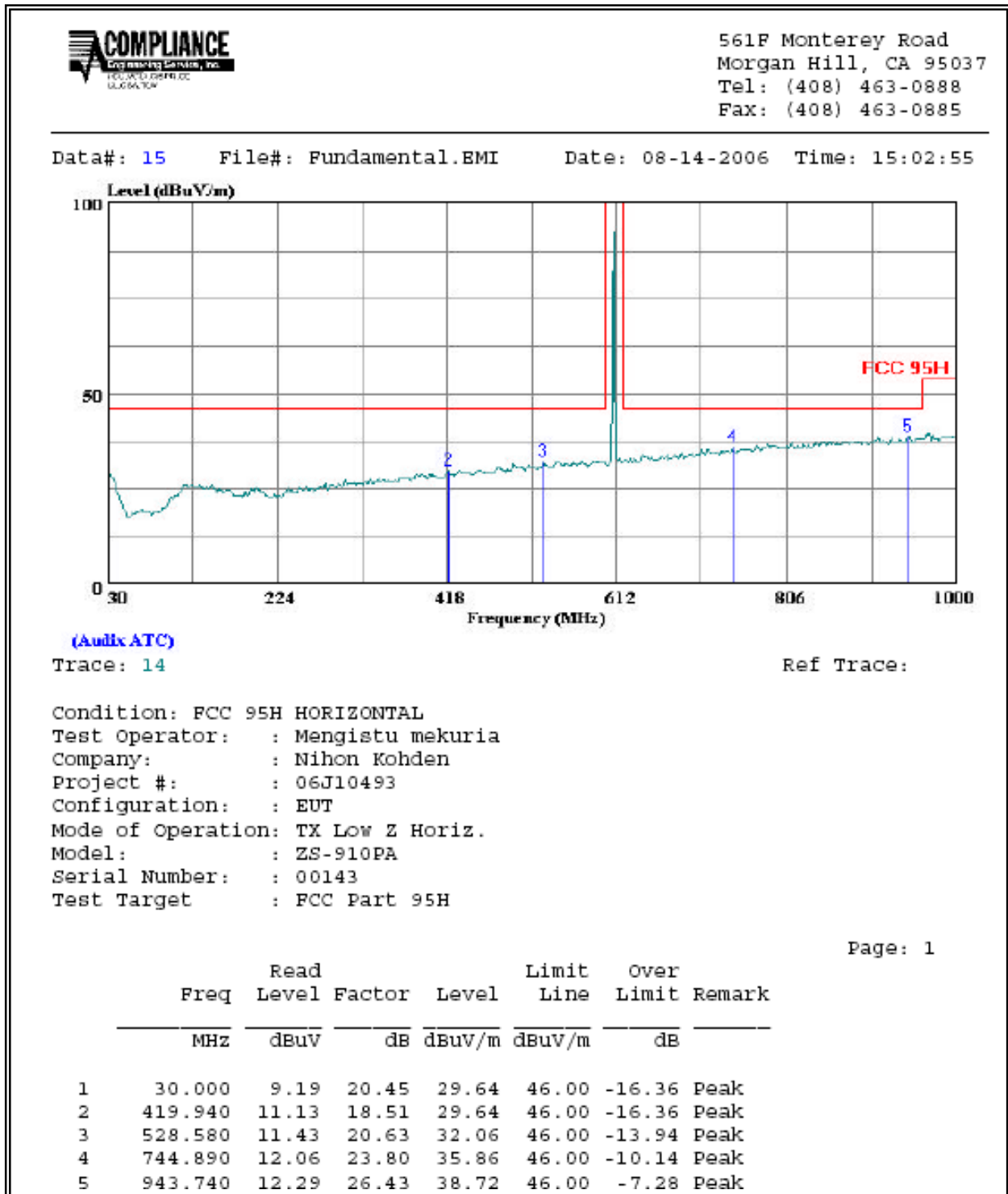


**Tx BELOW 1GHz**

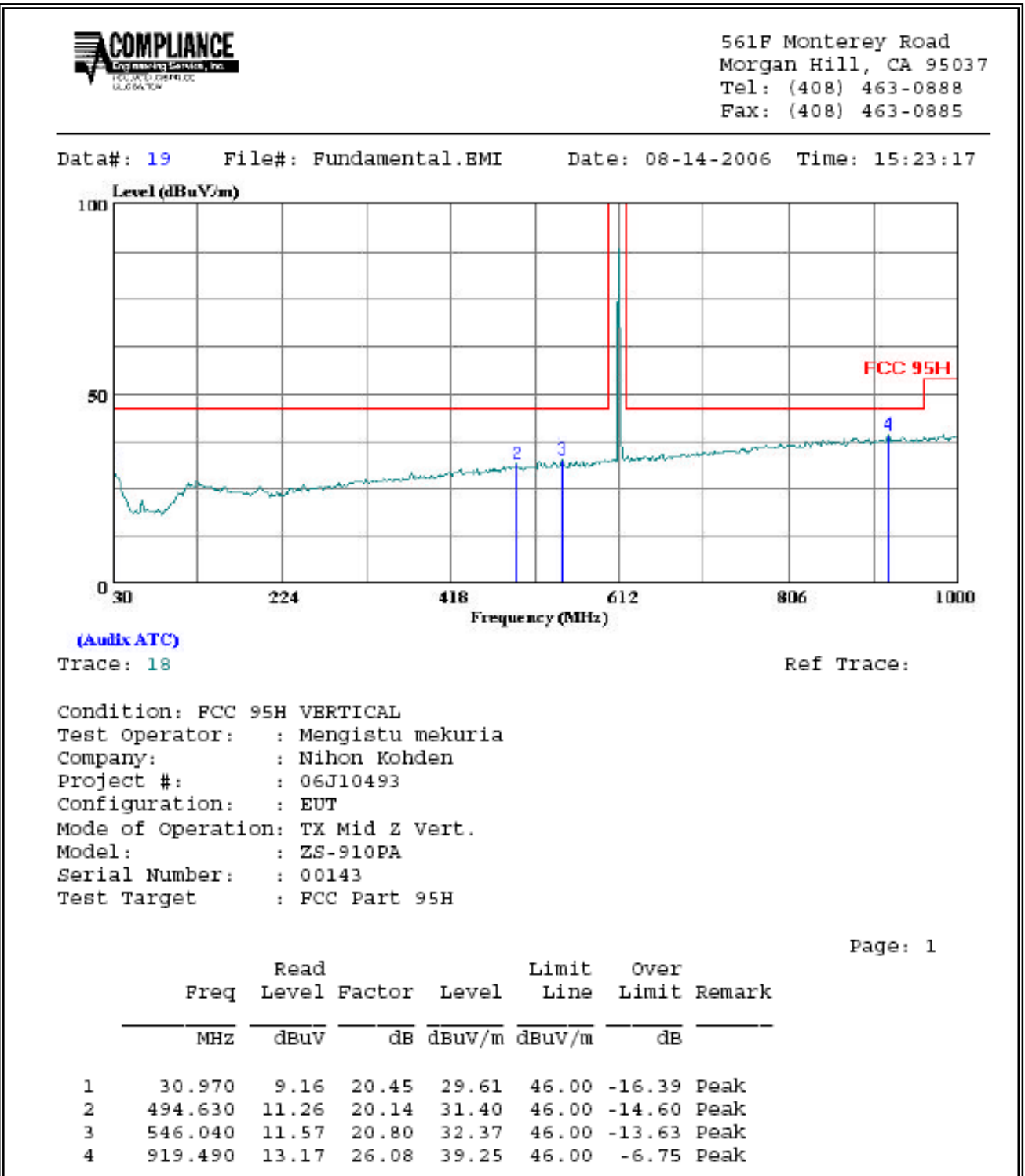
**95.1115 (a) LOW CHANNEL (VERTICAL)**



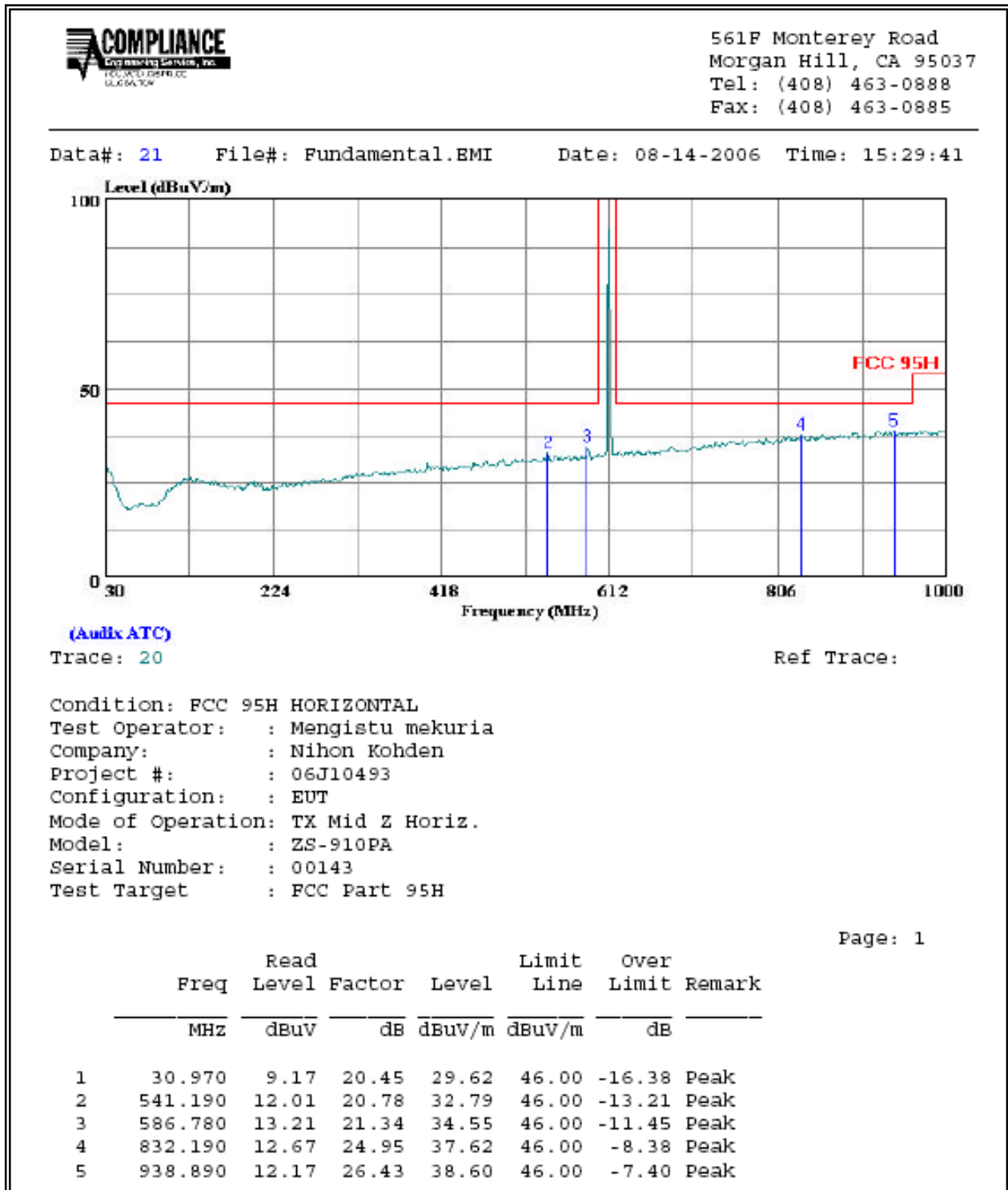
95.1115 (a) LOW CHANNEL (HORIZONTAL)



95.1115 (a) MIDDLE CHANNEL (VERTICAL)



95.1115 (a) MIDDLE CHANNEL (HORIZONTAL)

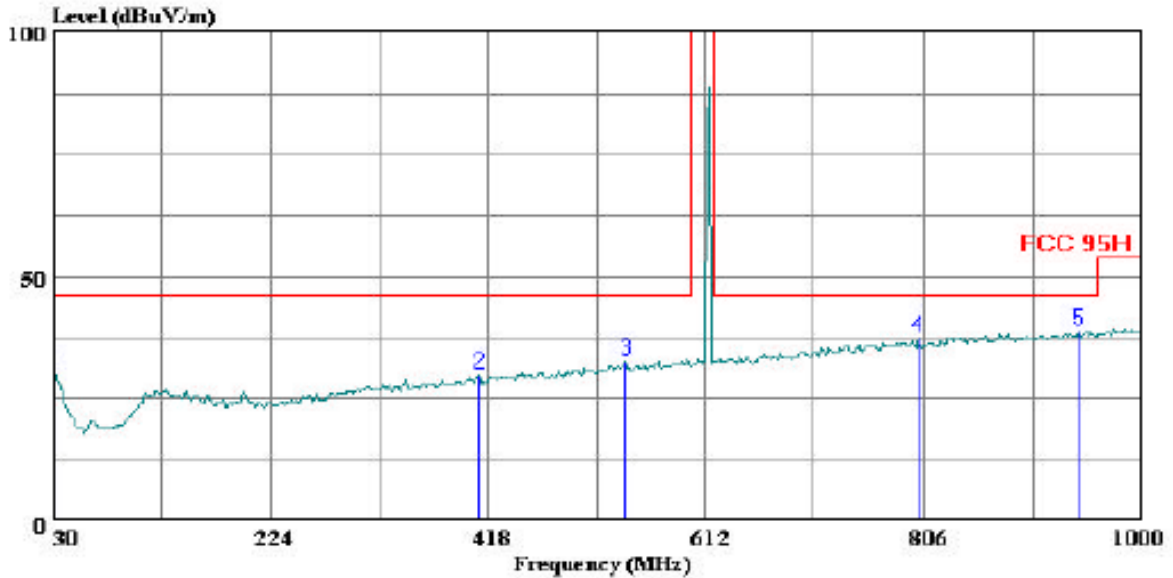


95.1115 (a) HIGH CHANNEL (VERTICAL)



561F Monterey Road  
 Morgan Hill, CA 95037  
 Tel: (408) 463-0888  
 Fax: (408) 463-0885

Data#: 25 File#: Fundamental.EMI Date: 08-14-2006 Time: 15:51:56



(Auxiliary ATC)

Trace: 24

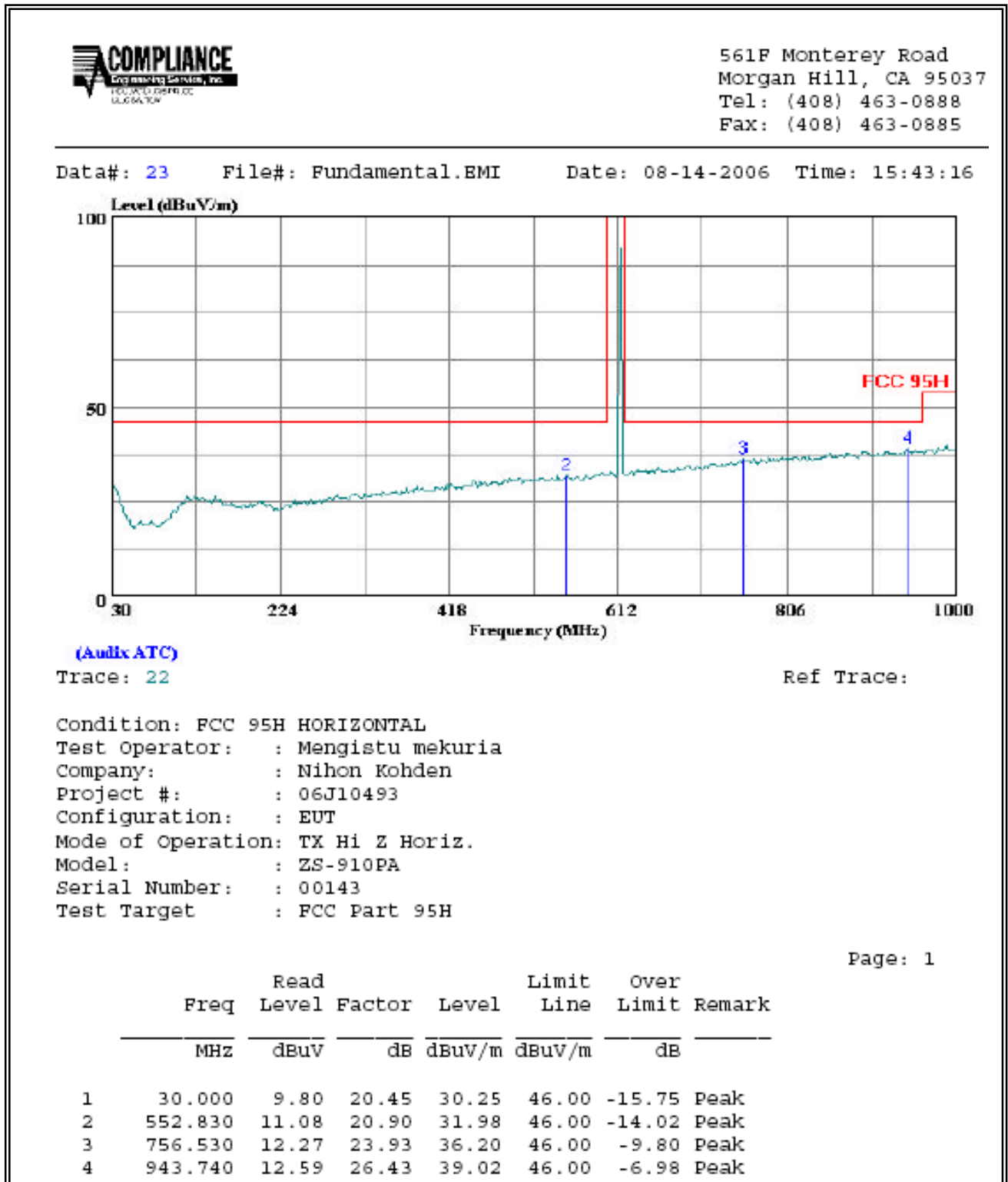
Ref Trace:

Condition: FCC 95H VERTICAL  
 Test Operator: : Mengistu mekuria  
 Company: : Nihon Kohden  
 Project #: : 06J10493  
 Configuration: : EUT  
 Mode of Operation: TX Hi Z Vert.  
 Model: : ZS-910PA  
 Serial Number: : 00143  
 Test Target : FCC Part 95H

Page: 1

	Read		Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	30.970	9.73	20.45	30.18	46.00	-15.82 Peak
2	410.240	11.39	18.31	29.70	46.00	-16.30 Peak
3	541.190	11.68	20.78	32.46	46.00	-13.54 Peak
4	800.180	12.78	24.58	37.36	46.00	-8.64 Peak
5	943.740	12.45	26.43	38.88	46.00	-7.12 Peak

95.1115 (a) HIGH CHANNEL (HORIZONTAL)





**HARMONIC & SPUR**

**95.1115 (b) LOW CHANNEL (VERTICAL & HORIZONTAL ABOVE 1GHz)**

<b>High Frequency Measurement</b>																																													
Compliance Certification Services, Morgan Hill Open Field Site																																													
Company: Nion Kohden																																													
Project #: 06J10493																																													
Date: 8/15/2006																																													
Test Engineer: Mengistu Mekuria																																													
Configuration: EUT with Antenna																																													
Mode: Tx Low X																																													
<b>Test Equipment:</b>																																													
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit																																	
T60; S/N: 2238 @3m			T144 Miteq 3008A00931																																										
Hi Frequency Cables																																													
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter																																	
Can 187207004						Can 187209002			HPF_1.5GHz																																				
<div style="float: right; text-align: right; font-size: small;">                 Peak Measurements                  RBW=VBW=1MHz                  Average Measurements                  RBW=1MHz ; VBW=10Hz             </div>																																													
f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)																														
1.216	3.0	49.1	41.0	26.0	2.3	-39.2	0.0	0.1	38.3	30.2	74	54	-35.7	-23.8	H																														
1.824	3.0	46.3	34.4	27.5	2.6	-38.3	0.0	0.3	38.4	26.4	74	54	-35.6	-27.6	H																														
2.432	3.0	43.4	31.8	28.7	2.8	-37.5	0.0	0.6	38.0	26.4	74	54	-36.0	-27.6	H																														
3.040	3.0	45.8	38.4	30.5	3.0	-37.3	0.0	0.6	42.6	35.2	74	54	-31.4	-18.8	H																														
1.216	3.0	47.9	37.4	26.0	2.3	-39.2	0.0	0.1	37.1	26.6	74	54	-36.9	-27.4	V																														
1.824	3.0	46.5	34.5	27.5	2.6	-38.3	0.0	0.3	38.6	26.5	74	54	-35.4	-27.5	V																														
2.432	3.0	46.0	34.0	28.7	2.8	-37.5	0.0	0.6	40.6	28.5	74	54	-33.4	-25.5	V																														
3.040	3.0	47.2	41.5	30.5	3.0	-37.3	0.0	0.6	44.1	38.3	74	54	-29.9	-15.7	V																														
No other emissions were detected above system noise floor																																													
<table style="width:100%; border: none;"> <tr> <td>f</td> <td>Measurement Frequency</td> <td>Amp</td> <td>Preamp Gain</td> <td>Avg Lim</td> <td>Average Field Strength Limit</td> </tr> <tr> <td>Dist</td> <td>Distance to Antenna</td> <td>D Corr</td> <td>Distance Correct to 3 meters</td> <td>Pk Lim</td> <td>Peak Field Strength Limit</td> </tr> <tr> <td>Read</td> <td>Analyzer Reading</td> <td>Avg</td> <td>Average Field Strength @ 3 m</td> <td>Avg Mar</td> <td>Margin vs. Average Limit</td> </tr> <tr> <td>AF</td> <td>Antenna Factor</td> <td>Peak</td> <td>Calculated Peak Field Strength</td> <td>Pk Mar</td> <td>Margin vs. Peak Limit</td> </tr> <tr> <td>CL</td> <td>Cable Loss</td> <td>HPF</td> <td>High Pass Filter</td> <td></td> <td></td> </tr> </table>																f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit	Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit	Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit	AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit	CL	Cable Loss	HPF	High Pass Filter		
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit																																								
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit																																								
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit																																								
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit																																								
CL	Cable Loss	HPF	High Pass Filter																																										

**95.1115 (b) MID CHANNEL (VERTICAL & HORIZONTAL ABOVE 1GHz)**

High Frequency Measurement																	
Compliance Certification Services, Morgan Hill Open Field Site																	
Company: Nion Kohden																	
Project #: 06J10493																	
Date: 8/15/2006																	
Test Engineer: Mengistu Mekuria																	
Configuration: EUT with Antenna																	
Mode: Tx Mid X																	
<b>Test Equipment:</b>																	
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit					
T60; S/N: 2238 @3m			T144 Miteq 3008A00931														
Hi Frequency Cables																	
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz; VBW=10Hz		
Can 187207004						Can 187209002			HPF_1.5GHz								
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)		
1.222	3.0	50.0	42.0	26.0	2.3	-39.2	0.0	0.1	39.2	31.2	74	54	-34.8	-22.8	H		
1.833	3.0	45.6	34.0	27.5	2.6	-38.3	0.0	0.3	37.7	26.1	74	54	-36.3	-27.9	H		
2.444	3.0	45.3	34.2	28.7	2.8	-37.5	0.0	0.6	39.9	28.8	74	54	-34.1	-25.2	H		
3.055	3.0	47.3	40.2	30.6	3.1	-37.3	0.0	0.6	44.2	37.0	74	54	-29.8	-17.0	H		
1.222	3.0	48.5	38.0	26.0	2.3	-39.2	0.0	0.1	37.7	27.3	74	54	-36.3	-26.7	V		
1.833	3.0	47.2	35.5	27.5	2.6	-38.3	0.0	0.3	39.3	27.6	74	54	-34.7	-26.4	V		
2.444	3.0	49.7	41.8	28.7	2.8	-37.5	0.0	0.6	44.3	36.4	74	54	-29.7	-17.6	V		
3.055	3.0	50.4	45.8	30.6	3.1	-37.3	0.0	0.6	47.3	42.6	74	54	-26.7	-11.4	V		
No other emissions were detected above system noise floor																	
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit				
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit				
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit				
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit				
CL	Cable Loss					HPF	High Pass Filter										

**95.1115 (b) HIGH CHANNEL (VERTICAL & HORIZONTAL ABOVE 1GHz)**

High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company: Nion Kohden															
Project #: 06J10493															
Date: 8/15/2006															
Test Engineer: Mengistu Mekuria															
Configuration: EUT with Antenna															
Mode: Tx Hi X															
<b>Test Equipment:</b>															
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit			
T60; S/N: 2238 @3m			T144 Miteq 3008A00931												
Hi Frequency Cables															
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			
Can 187207004						Can 187209002			HPF_1.5GHz						
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Peak Measurements</b> RBW=VBW=1MHz</p> <p><b>Average Measurements</b> RBW=1MHz; VBW=10Hz</p> </div> </div>															
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.228	3.0	51.7	45.2	26.0	2.3	-39.2	0.0	0.1	41.0	34.4	74	54	-33.0	-19.6	H
1.842	3.0	44.5	33.4	27.5	2.6	-38.3	0.0	0.3	36.6	25.6	74	54	-37.4	-28.4	H
2.456	3.0	45.2	32.8	28.7	2.8	-37.5	0.0	0.6	39.8	27.5	74	54	-34.2	-26.5	H
3.070	3.0	48.2	43.7	30.6	3.1	-37.3	0.0	0.6	45.1	40.7	74	54	-28.9	-13.3	H
1.228	3.0	49.4	38.6	26.0	2.3	-39.2	0.0	0.1	38.6	27.8	74	54	-35.4	-26.2	V
1.842	3.0	45.1	33.5	27.5	2.6	-38.3	0.0	0.3	37.3	25.7	74	54	-36.7	-28.3	V
2.456	3.0	45.9	36.2	28.7	2.8	-37.5	0.0	0.6	40.5	30.8	74	54	-33.5	-23.2	V
3.070	3.0	48.3	43.9	30.6	3.1	-37.3	0.0	0.6	45.2	40.8	74	54	-28.8	-13.2	V
No other emissions were detected above system noise floor															V
															V
Rev. 5.1.6															
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit										
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit										
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit										
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit										
CL	Cable Loss	HPF	High Pass Filter												

## 9. EMISSION BANDWIDTH

### PROVISIONS APPLICABLE

§ 2.1049 The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable...

§ 95.633 Emission bandwidth

(a) The authorized bandwidth (maximum permissible bandwidth of a transmission) for emission type H1D, J1D, R1D, H3E, J3E or R3E is 4 kHz. The authorized bandwidth for emission type A1D or A3E is 8 kHz. The authorized bandwidth for emission type F1D, G1D, F3E or G3E is 20 kHz.

### LIMIT

The 26 dB bandwidth shall be less than 20 kHz (F1D).

### TEST PROCEDURE

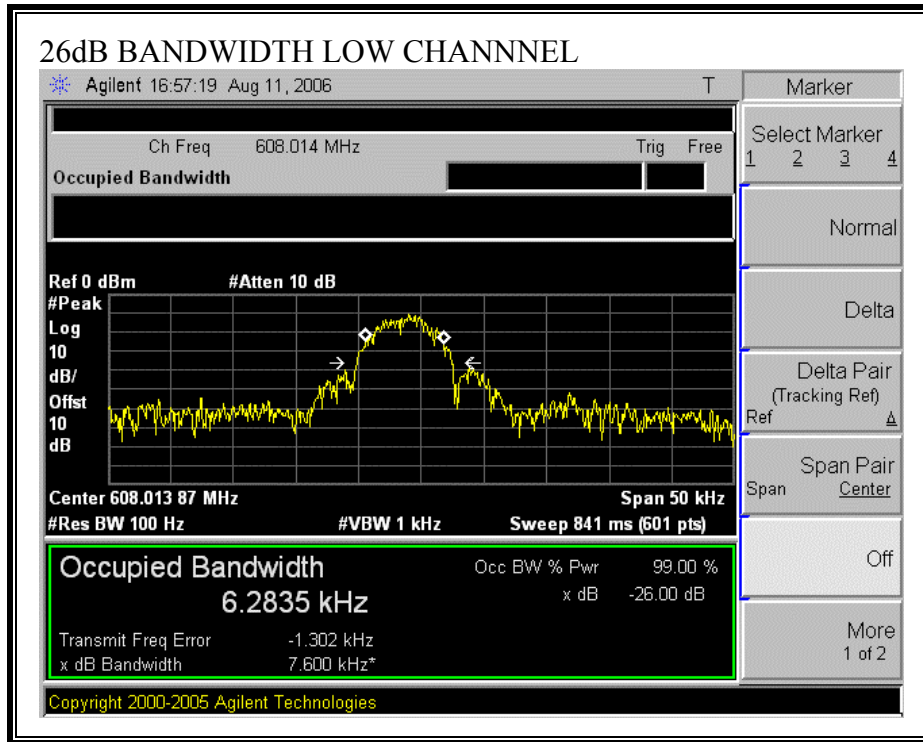
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 26dB bandwidth. The VBW is set to  $\geq$  the RBW. The sweep time is coupled. The spectrum analyzer internal 26dB bandwidth function is utilized.

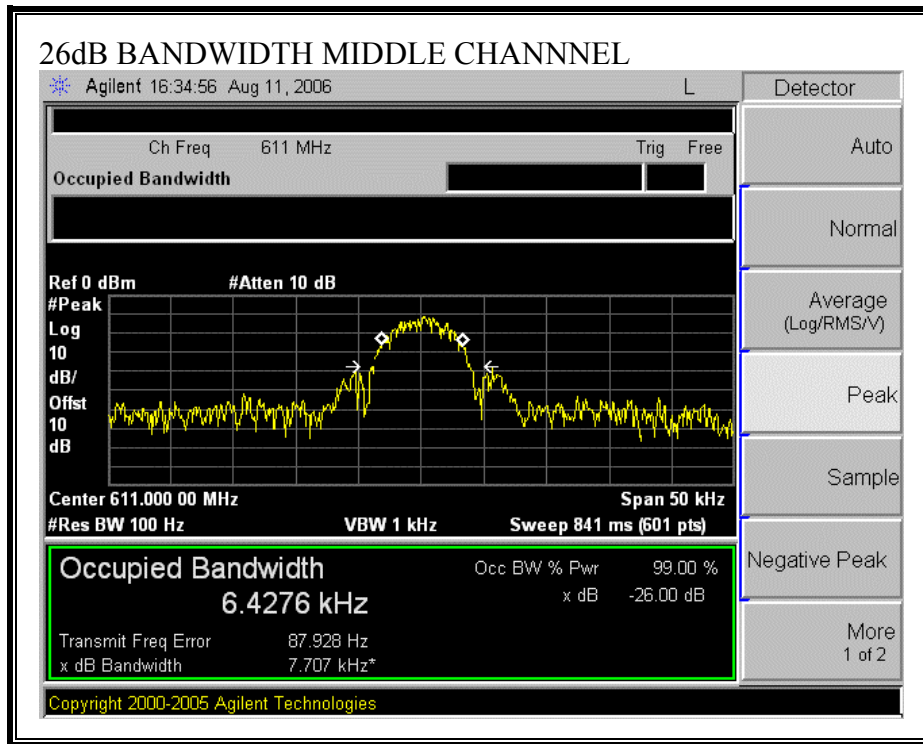


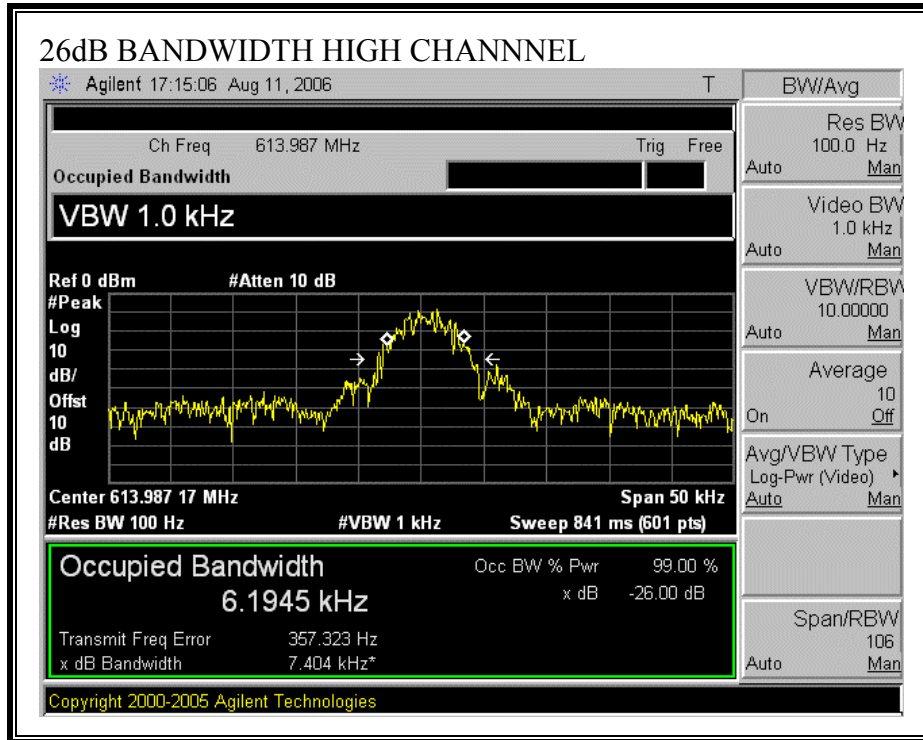
### RESULTS

No non-compliance noted:

CHANNEL	FREQUENCY (MHz)	99% BANDWIDTH (kHz)	26 dB BANDWIDTH (kHz)
LOW	608.02	6.2835	7.600
MIDDLE	611.02	6.4276	7.707
HIGH	613.96	6.1945	7.404







## 10. PEAK OUTPUT POWER

### PROVISIONS APPLICABLE

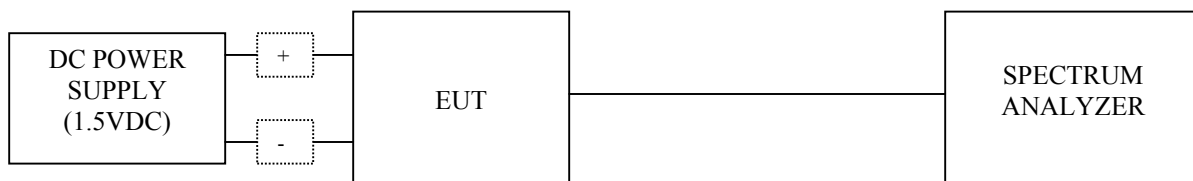
According to CFR47 section 2.1046

### LIMIT

FREQUENCY (MHz)	LIMIT (dBm)
608-614	10.8

### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set greater than the 26dB bandwidth. The VBW is set to 3 times the RBW.

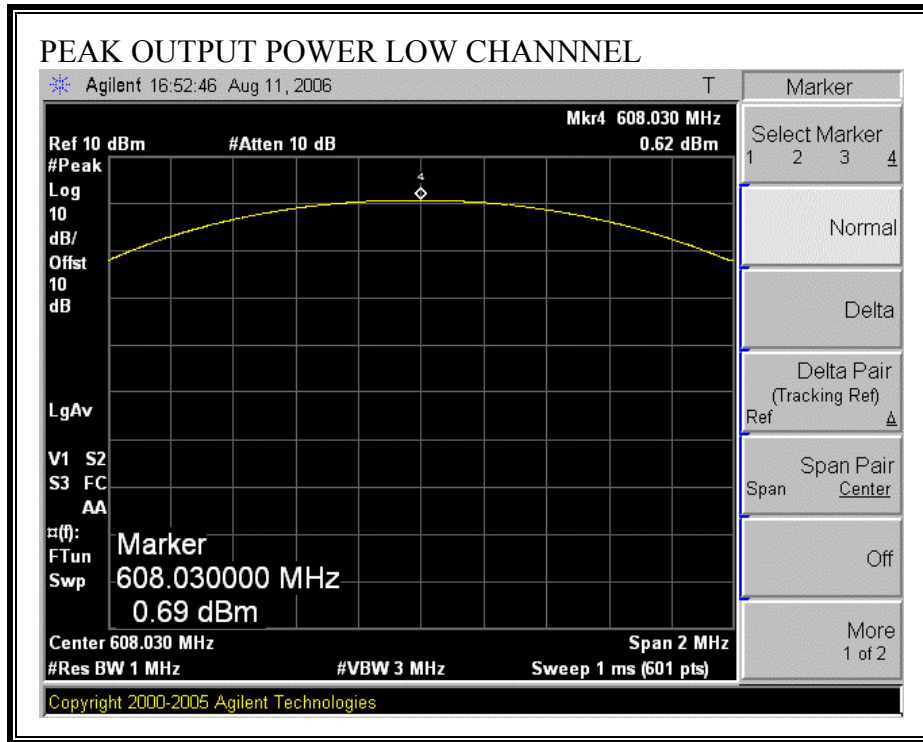


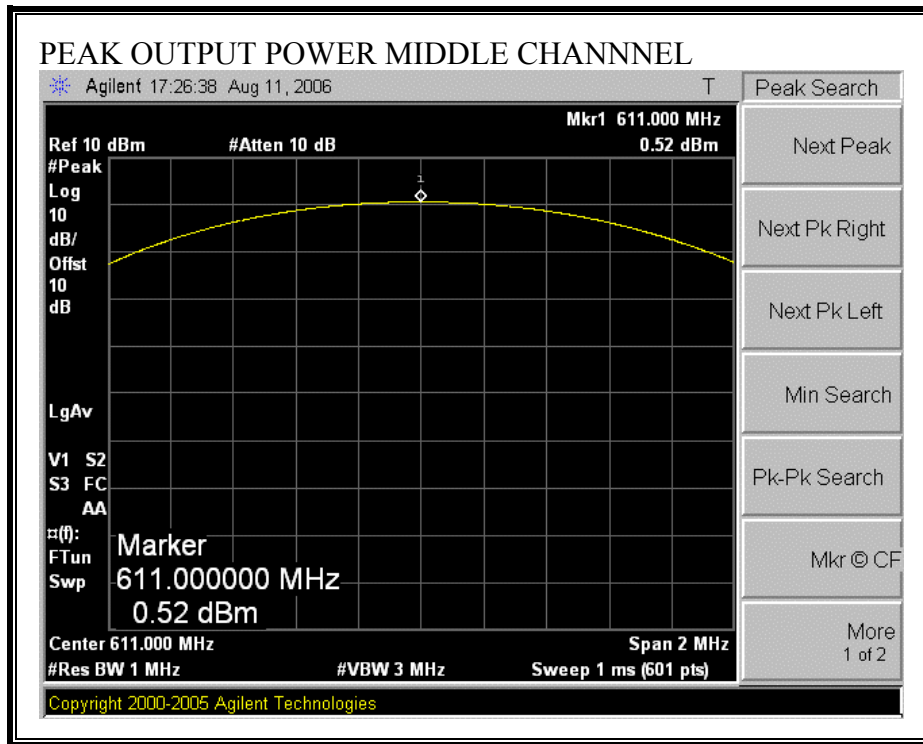
### TEST RESULTS

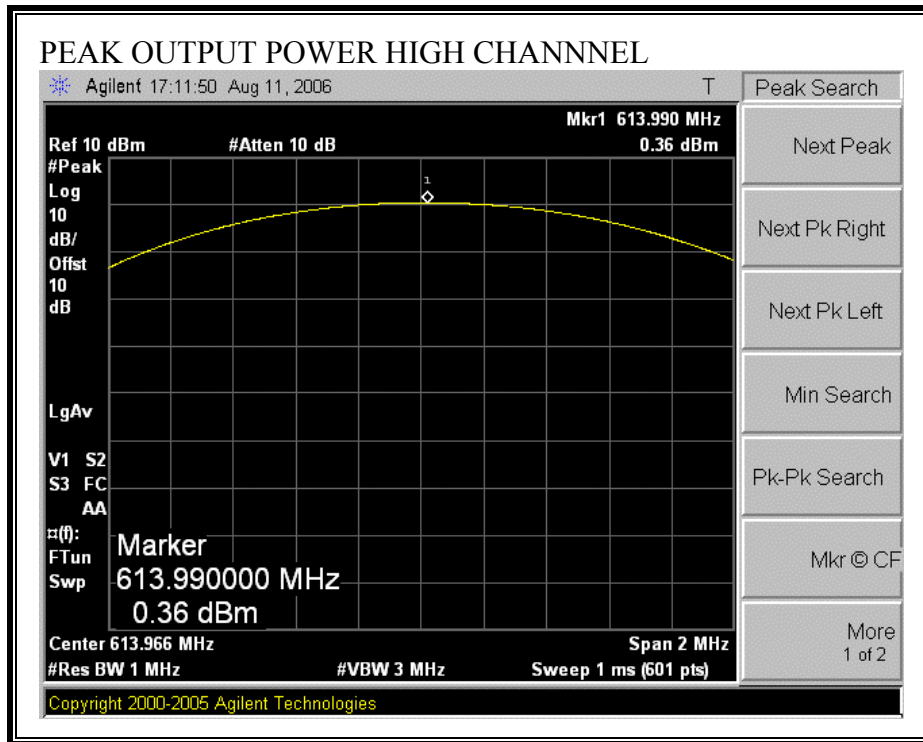
No non-compliance noted:

CHANNEL	FREQUENCY (MHz)	PEAK OUTPUT POWER (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	608	0.62	10.8	-10.18
MIDDLE	611	0.52	10.8	-10.28
HIGH	614	0.36	10.8	-10.44









## 11. SPURIOUS EMISSIONS AT ANTENNA TERMINAL

### PROVISIONS APPLICABLE

According to CFR47 section 2.1051

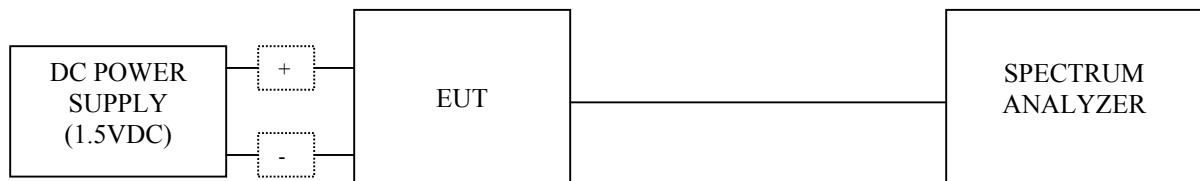
### LIMIT

All the conducted emission spurious level shall be at least -20dBc below the band that contains the highest level of desired power.

### TEST PROCEDURE

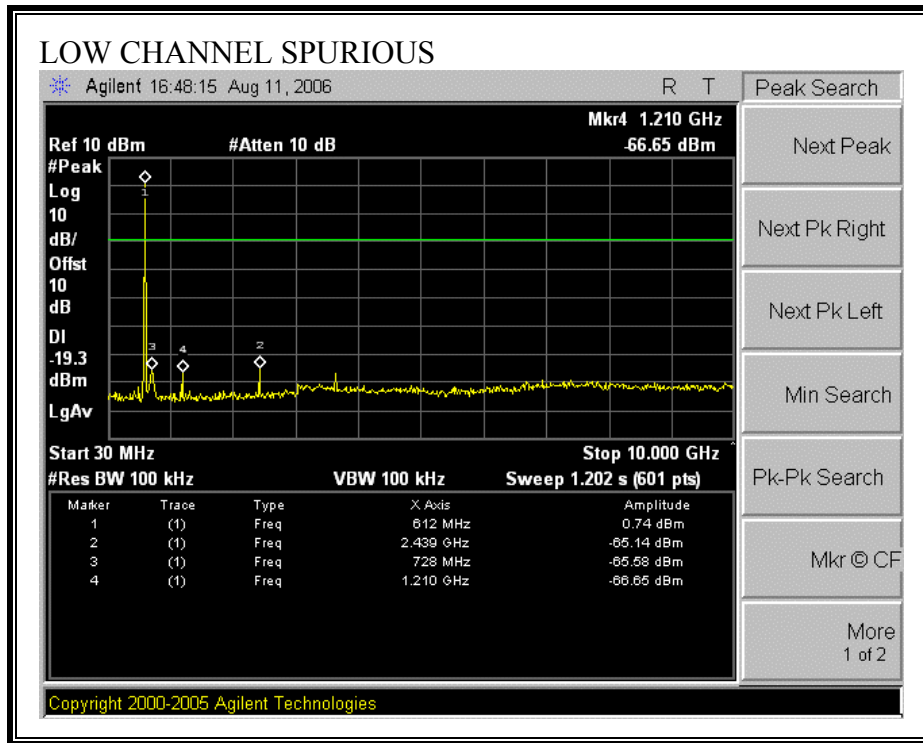
The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz. The VBW is set to 300 kHz.

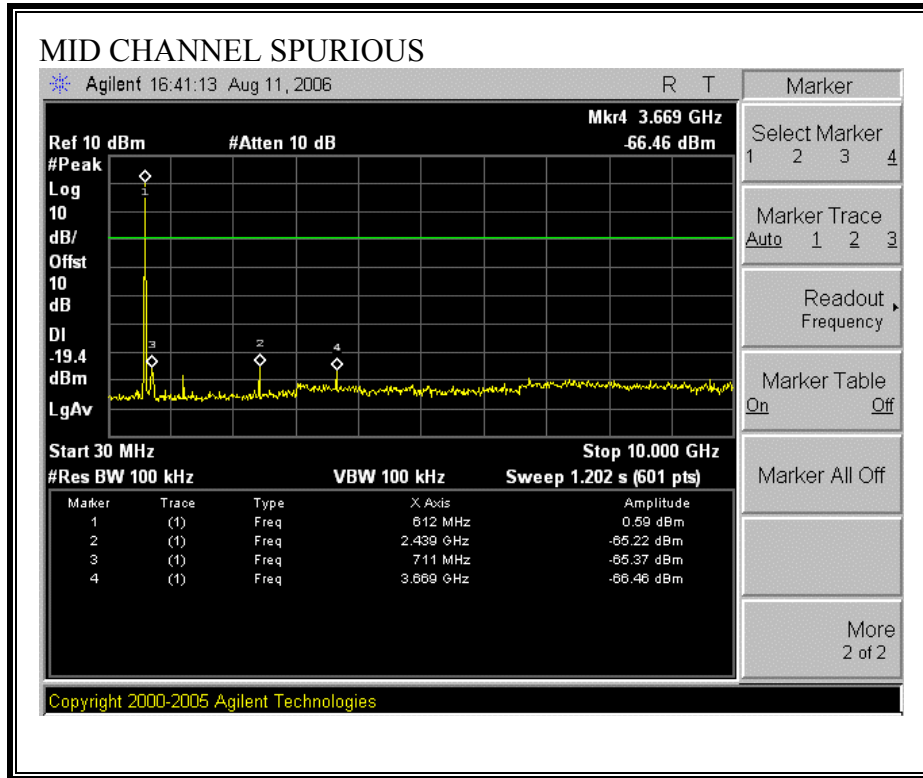
The spectrum from 30 MHz to 10 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

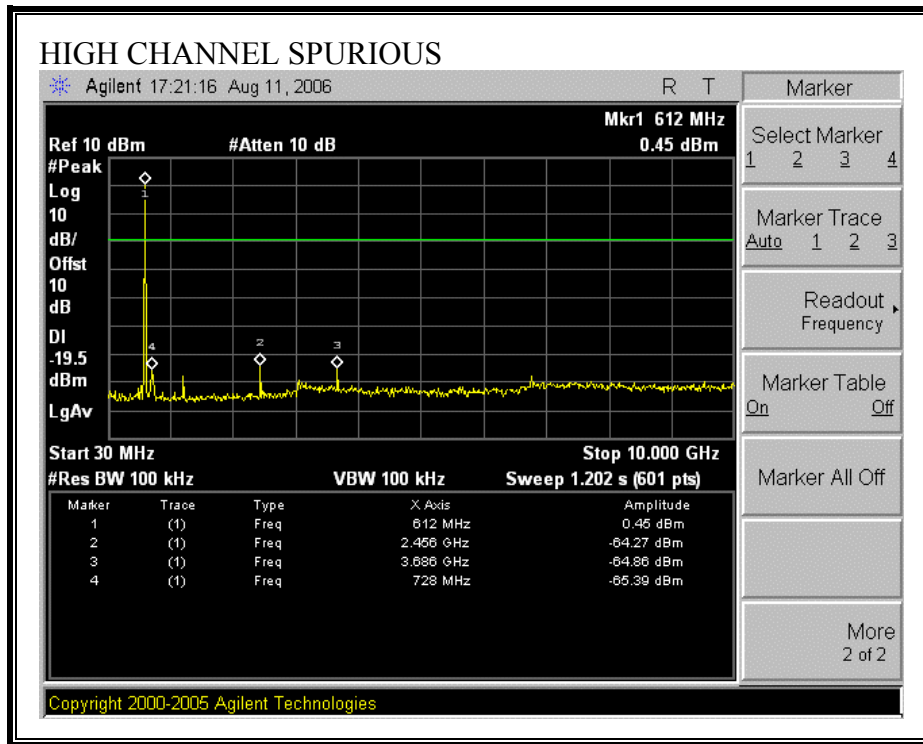


### RESULTS

No non-compliance noted:

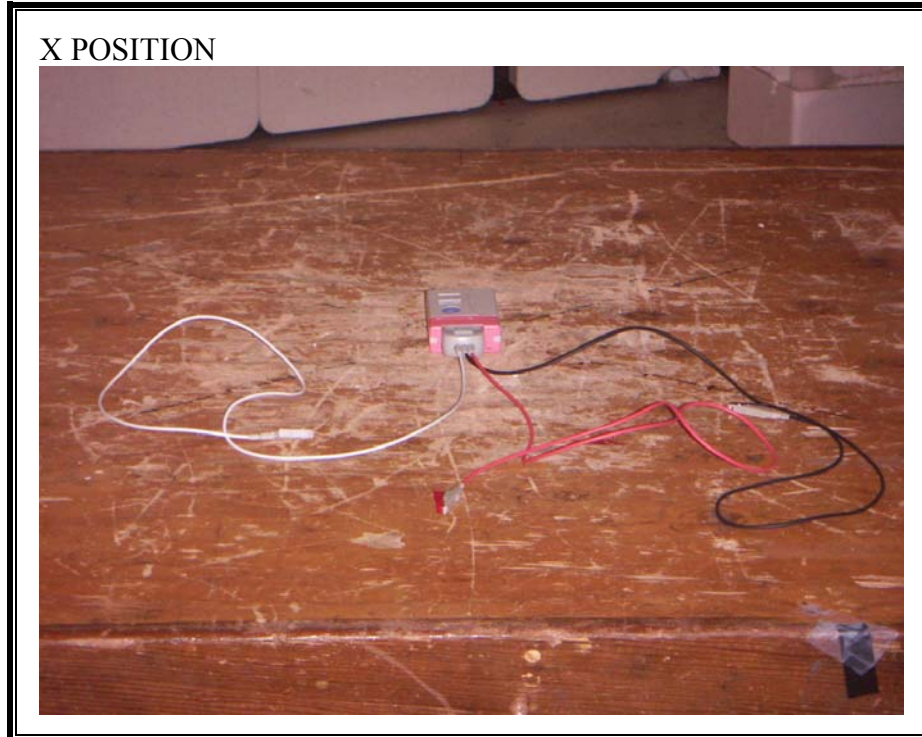




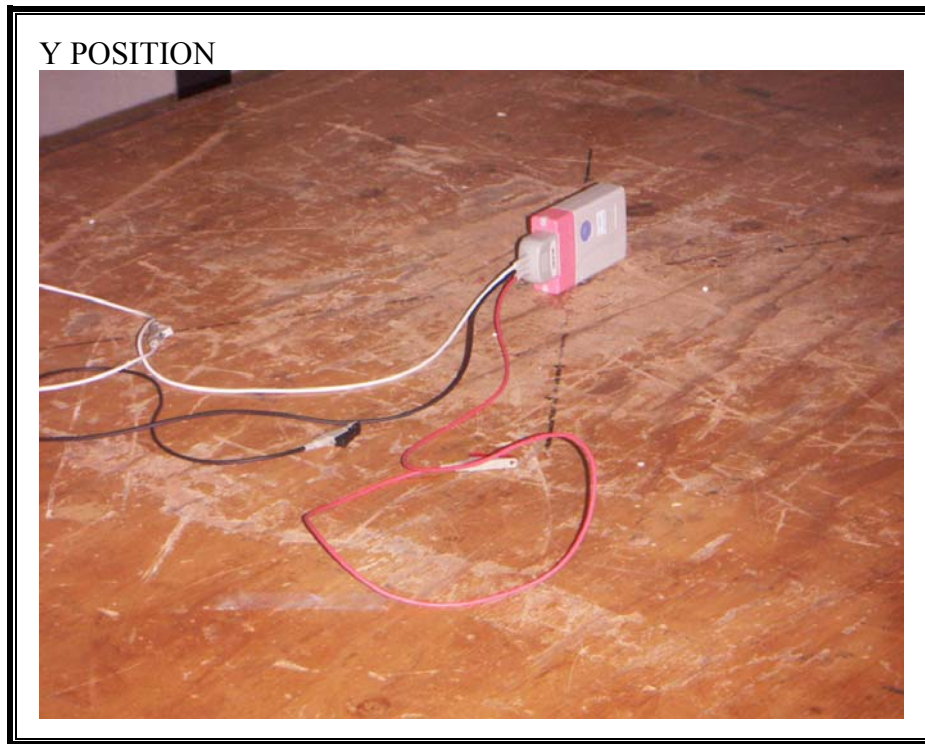


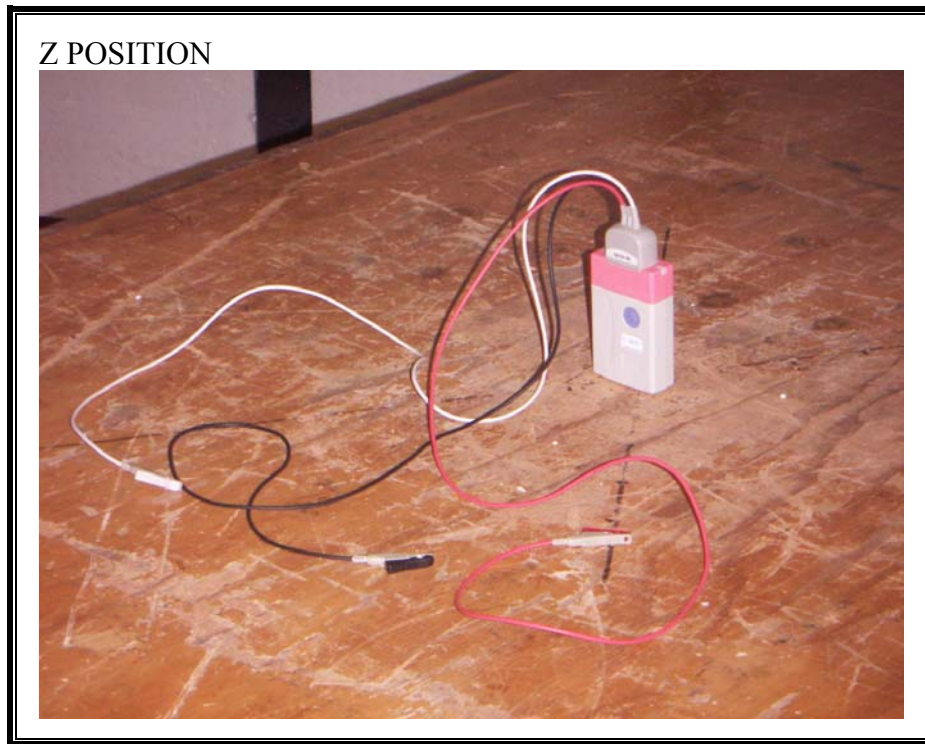
## 12. SETUP PHOTOS

### RADIATED RF MEASUREMENT SETUP

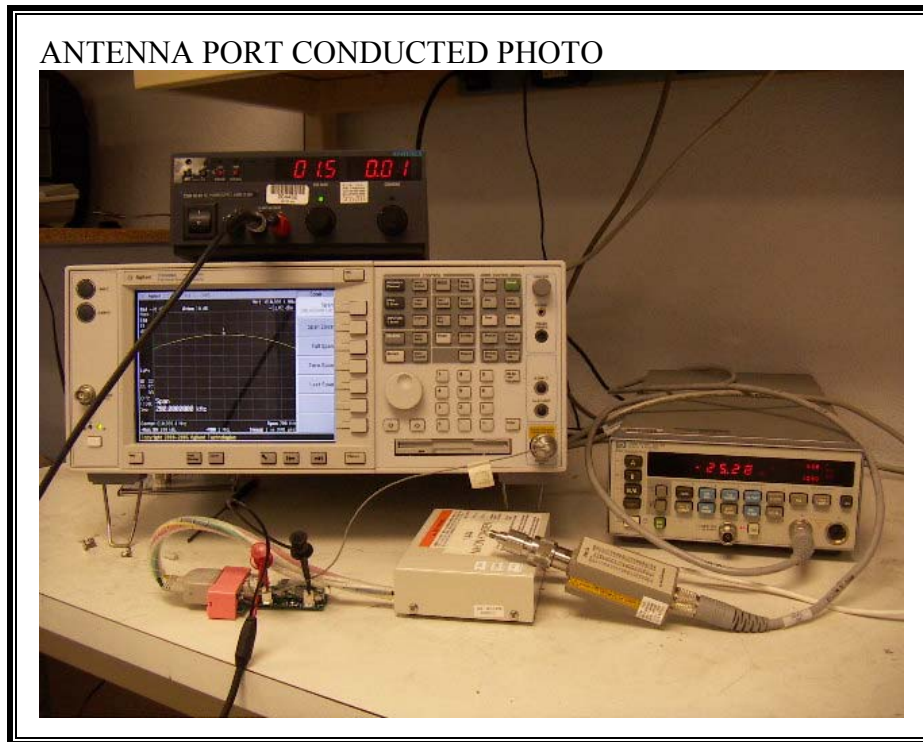








ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



**END OF REPORT**