# Amber Helm Development L.C.

92723 Michigan Hwy-152

Sister Lakes, Michigan 49047 USA

Tel: 888-847-8027

# **EMC Test Report**

TRWTX-1702216TX Issued: January 28, 2018

regarding

USA: CFR Title 47, Part 15.231 (Emissions) ISED RSS-210v9 Canada: (Emissions)

for



336600

Category: RKE Transmitter

Judgements:

FCC 15.231, ISED RSS-210v9 Compliant

Tested: January 19, 2018



NVLAP LAB CODE 200129-0

Prepared for:

# TRW Automotive

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# **Revision History**

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# 1 Test Report Scope and Limitations

# 1.1 Laboratory Authorization

Test Facility description and attenuation characteristics are on file with the FCC Laboratory, Columbia, Maryland (FCC Reg. No: 90413) and with ISED Canada, Ottawa, ON (File Ref. No: IC3161). Amber Helm Development L.C. holds accreditation under NVLAP Lab Code 200129-0 and includes within its scope CFR Title 47 Part 15 Subparts B and C.

## 1.2 Report Retention

For equipment verified to comply with the regulations herein, the manufacturer is obliged to retain this report with the product records for the life of the product, and no less than ten years. A copy of this Report will remain on file with this laboratory until January 2028.

## 1.3 Subcontracted Testing

This report does not contain data produced under subcontract.

#### 1.4 Test Data

This test report contains data included within the laboratories scope of accreditation.

#### 1.5 Limitation of Results

The test results contained in this report relate only to the item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require reevaluation.

#### 1.6 Copyright

This report shall not be reproduced, except in full, without the written approval of Amber Helm Development L.C..

#### 1.7 Endorsements

This report shall not be used to claim product endorsement by any accrediting, regulatory, or governmental agency.

#### 1.8 Test Location

The EUT was fully tested by **Amber Helm Development L.C.**, 92723 Michigan Hwy-152, Sister Lakes, Michigan 49047 USA. Table 1 lists all sites employed herein. Specific test sites utilized are also listed in the test results sections of this report.

Table 1: Test Site List.

Description	Location	Quality Num.
OATS (3m & 10m)	92723 Michigan Hwy-152, Sister Lakes, Michigan 49047 USA	OATSA

# 1.9 Traceability and Equipment Used

Pertinent test equipment used for measurements at this facility is listed in Table 2. The quality system employed at Amber Helm Development L.C. has been established to ensure all equipment has a clearly identifiable classification, calibration expiry date, and that all calibrations are traceable to the SI through NIST, other recognized national laboratories, accepted fundamental or natural physical constants, ratio type of calibration, or by comparison to consensus standards.

Table 2: Equipment List.

Description	${f Manufacturer/Model}$	$\mathbf{S}\mathbf{N}$	Quality Num.	Last Cal By / Date Due
BiconiLog Antenna	EMCO / 3142	1169	BILO3142	Lib.Labs / May-2018
(3m) RG8 Coax	CS-3227 / CS-3227	C060914	CS3227	AHD / Mar-2018
EMI Receiver	${\rm HP} \ / \ 85460 {\rm A} / 85462 {\rm A}$	3704A00422, 3807A00465	HP8546A	Techmaster / Apr-2018
Spectrum Analyzer	Rohde & Schwarz / FSV30	101660	RSFSV30001	RS / May-2018
(3m) LMR-400 Coax	AHD / LMR400	C090804	LMR400	AHD / Mar-2018
(LCI) DS Coax	AHD / RG58/U	920809	RG58U	AHD / Jul-2018
(10-m) Amelco Coax	AHD / RG213U	9903-10ab	RG213U	AHD / Mar-2018
Double Ridged Horn	EMCO / 3115	2788	RH3115	Lib.Labs. / July-2018

# 2 Test Specifications and Procedures

# 2.1 Test Specification and General Procedures

The ultimate goal of TRW Automotive is to demonstrate that the Equipment Under Test (EUT) complies with the Rules and/or Directives below. Detailed in this report are the results of testing the TRW Automotive 336600 for compliance to:

Country/Region	Rules or Directive	Referenced Section(s)
United States	Code of Federal Regulations	CFR Title 47, Part 15.231
Canada	ISED Canada	ISED RSS-210v9

It has been determined that the equipment under test is subject to the rules and directives above at the date of this testing. In conjunction with these rules and directives, the following specifications and procedures are followed herein to demonstrate compliance (in whole or in part) with these regulations.

ANSI C63.4:2014	"Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"
ANSI C63.10:2013 (USA)	"American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices"
TP0102RA	"AHD Internal Document TP0102 - Radiated Emissions Test Procedure"
ISED Canada	"The Measurement of Occupied Bandwidth"
ICES-003; Issue 6 (2016)	"Information Technology Equipment (ITE) $$ Limits and methods of measuremen"

# 3 Configuration and Identification of the Equipment Under Test

# 3.1 Description and Declarations

The equipment under test is a remote keyless entry transmitter. The EUT is approximately  $4 \times 2.5 \times 1.5$  cm (approx) in dimension, and is depicted in Figure 1. It is powered by 3 VDC lithium coin cell. In use, this device is hand held. Table 3 outlines provider declared EUT specifications.



Figure 1: Photos of EUT.

Table 3: EUT Declarations.

General Declarations			
Equipment Type:	RKE Transmitter	Country of Origin:	Not Declared
Nominal Supply:	3 VDC	Oper. Temp Range:	Not Declared
Frequency Range:	312.1 and $314.35$ MHz	Antenna Dimension:	Not Declared
Antenna Type:	Integral	Antenna Gain:	Not Declared
Number of Channels:	2	Channel Spacing:	Not Declared
Alignment Range:	Not Declared	Type of Modulation:	FSK
United States			
FCC ID Number:	GQ4-73T	Classification:	DSC
Canada			
IC Number:	1470A-54T	Classification:	Remote Control Device, Ve-
10 Number:	141UA-041	Classification:	hicular Device

#### 3.1.1 EUT Configuration

The EUT is configured for testing as depicted in Figure 2.

#### 3.1.2 Modes of Operation

The EUT employs only a single mode of operation, as a manually activated transmitter. Upon single button press, the EUT will transmit one 716 ms FSK frame on one of two RF channels. Only a single channel is employed with a single button press, and the EUT switches channels between presses.

#### 3.1.3 Variants

There is only a single variant of the EUT, as tested.

# 3.1.4 Test Samples

Two normal operating samples were provided for testing.

TRW RKE Transmitter Model: 336600 FCC ID: GQ4-73T IC: 1470A-54T

Figure 2: EUT Test Configuration Diagram.

#### 3.1.5 Functional Exerciser

Normal operating EUT functionality was verified by observation of transmitted signal.

# 3.1.6 Modifications Made

There were no modifications made to the EUT by this laboratory.

# 3.1.7 Production Intent

The EUT appears to be a production ready sample.

# 3.1.8 Declared Exemptions and Additional Product Notes

None.

#### 4 Emissions

#### 4.1 General Test Procedures

# 4.1.1 Radiated Test Setup and Procedures

Radiated electromagnetic emissions from the EUT are first pre-scanned in our screen room. Spectrum and modulation characteristics of all emissions are recorded. Instrumentation, including spectrum analyzers and other test equipment as detailed in Section 1.8 are employed. After pre-scan, emission measurements are made on the test site of record. If the EUT connects to auxiliary equipment and is table or floor standing, the configurations prescribed in relevant test standards are followed. Alternatively, a layout closest to normal use (as declared by the provider) is employed if the resulting emissions appear to be worst-case in such a configuration. See Figure 3. All intentionally radiating elements that are not fixed-mounted in use are placed on the test table lying flat, on their side, and on their end (3-axes) and the resulting worst case emissions are recorded. If the EUT is fixed-mounted in use, measurements are made with the device oriented in the manner consistent with installation and then emissions are recorded. If the EUT exhibits spurious emissions due to internal receiver circuitry, such emissions are measured with an appropriate carrier signal applied.

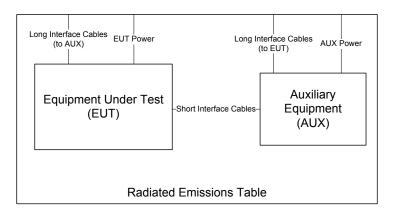


Figure 3: Radiated Emissions Diagram of the EUT.

For devices with intentional emissions below 30 MHz, a shielded loop antenna and/or E-field and H-Field broad-band probes are used depending on the regulations. Shielded loops are placed at a 1 meter receive height at the desired measurement distance. For exposure in this band, the broadband probes employed are 10cm diameter single-axis shielded transducers and measurements are repeated and summed over three axes.

Emissions between 30 MHz and 1 GHz are measured using calibrated broadband antennas. For both horizontal and vertical polarizations, the test antenna is raised and lowered from 1 to 4 m in height until a maximum emission level is detected. The EUT is then rotated through  $360^{\circ}$  in azimuth until the highest emission is detected. The test antenna is then raised and lowered one last time from 1 to 4 m and the worst case value is recorded. Emissions above 1 GHz are characterized using standard gain or broadband ridge-horn antennas on our OATS with a  $4 \times 5$  m rectangle of ECCOSORB absorber covering the OATS ground screen and a 1.5m table height. Care is taken to ensure that test receiver resolution and video bandwidths meet the regulatory requirements, and that the emission bandwidth of the EUT is not reduced. Photographs of the test setup employed are depicted in Figure 4.

Where regulations allow for direct measurement of field strength, power values (dBm) measured on the test receiver / analyzer are converted to  $dB\mu V/m$  at the regulatory distance, using

$$E_{dist} = 107 + P_R + K_A - K_G + K_E - C_F$$

where  $P_R$  is the power recorded on spectrum analyzer, in dBm,  $K_A$  is the test antenna factor in dB/m,  $K_G$  is the combined pre-amplifier gain and cable loss in dB,  $K_E$  is duty correction factor (when applicable) in dB, and  $C_F$  is a distance conversion (employed only if limits are specified at alternate distance) in dB. This field strength value is then compared with the regulatory limit. If effective isotropic radiated power (EIRP) is computed, it is computed as

$$EIRP(dBm) = E_{3m}(dB\mu V/m) - 95.2.$$

When presenting data at each frequency, the highest measured emission under all possible EUT orientations (3-axes) is reported.



Figure 4: Radiated Emissions Test Setup Photograph(s).

# 4.1.2 Conducted Emissions Test Setup and Procedures

**Battery Power Conducted Spurious** The EUT is not subject to measurement of power line conducted emissions as it is powered solely by its internal battery.

# 4.1.3 Power Supply Variation

Tests at extreme supply voltages are made if required by the procedures specified in the test standard, and results of this testing are detailed in this report.

In the case the EUT is designed for operation from a battery power source, the extreme test voltages are evaluated over the range specified in the test standard; no less than  $\pm 10\%$  of the nominal battery voltage declared by the manufacturer. For all battery operated equipment, worst case intentional and spurious emissions are re-checked employing a new (fully charged) battery.

#### 4.2 Intentional Emissions

# 4.2.1 Fundamental Emission Pulsed Operation

**Test Setup & Procedure** The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Duty cycle is reported for all relevant modes of operation. The test equipment employed includes RSFSV30001, BILOG3142.

**Measurement Results** The details and results of testing the EUT are summarized in Table 4. Plots showing the measurements made to obtain these values are provided in Figure 5.

Table 4: Fundamental Emission Pulsed Operation.

				Test Date:	20-Jan-18
Detector	Span	IF Bandwidth	Video Bandwidth	Test Engineer:	Joseph Brunett
Pk	0	1 MHz	3 MHz	EUT:	TRW Toy Tx
				EUT Mode:	Modulated
				Meas. Distance:	10 cm

	FCC/IC										
			Over	all Trans	mission		Internal Frame Characteristics			ted Duty	
			Min.	Max.	Total					cle	
#	Frequency	EUT Test Mode*	Repetition Rate (sec)	No. of Frames	Transmission Length (sec)	Max. Frame Length (ms)	Min. Frame Period (ms)	Frame Encoding	(%)	(dB)	
1	312.1 MHz	Manual Activation	single	1	0.716	716.000	-	The EUT transmits a single 716 ms long frame of FSK encoded data.	100.0	0.0	
2	314.35 MHz	Manual Activation	single	1	0.716	716.000	-	The EUT transmits a single 716 ms long frame of FSK encoded data.	100.0	0.0	

Example Calculation: Worst Case 315 FSK Duty (%) = 100ms / 100 ms x 100 = 100 %

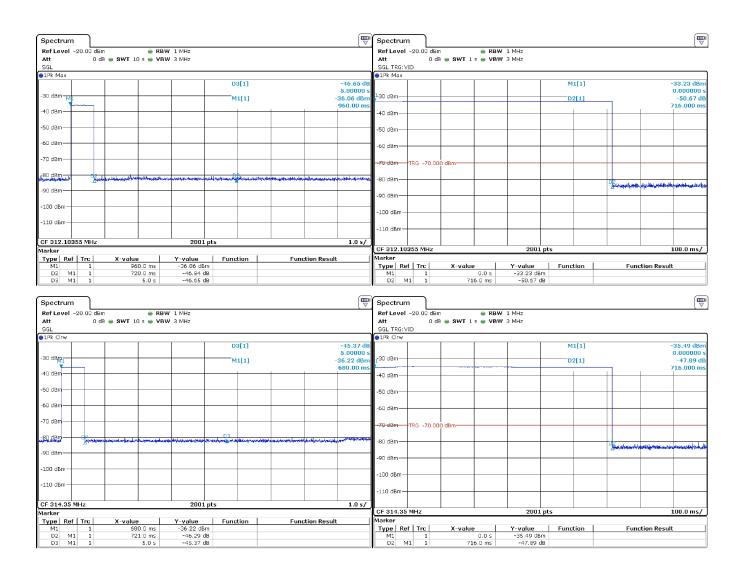


Figure 5: Fundamental Emission Pulsed Operation.

#### 4.2.2 Fundamental Emission Bandwidth

Test Setup & Procedure The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Emission bandwidth (EBW) of the EUT is measured with the device placed in the test mode(s) with the shortest available frame length and minimum frame spacing. The 20 dB EBW is measured as the max-held peak-detected signal when the IF bandwidth is greater than or equal to 1% of the receiver span. For complex modulations other than ASK and FSK, the 99% emission bandwidth per IC test procedures has a different result, and is also reported. The test equipment employed includes RSFSV30001, BILOG3142.

**Measurement Results** The details and results of testing the EUT are summarized in Table 5. Plots showing the measurements made to obtain these values are provided in Figure 6.

Table 5: Fundamental Emission Bandwidth.

			Test Date:	20-Jan-18
Detector	IF Bandwidth	Video Bandwidth	Test Engineer:	Joseph Brunett
Pk	10 kHz	30 kHz	EUT:	TRW Toy Tx
			<b>EUT Mode:</b>	Modulated
			Meas. Distance:	10 cm

						FCC/IC
		Center Frequency	20 dB EBW	EBW Limit	99% OBW	
#	Modulation	(MHz)	(MHz)	(MHz)	(MHz)	
1	FSK	312.10	0.110	0.7803	0.119	
2	FSK	314.35	0.111	0.785875	0.118	

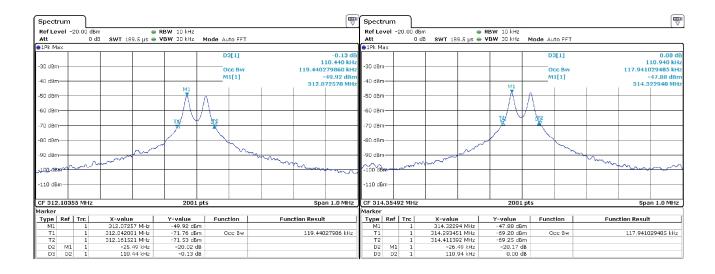


Figure 6: Fundamental Emission Bandwidth.

# 4.2.3 Fundamental Emission Field Strength

**Test Setup & Procedure** The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Fundamental emissions are measured at the regulatory distance on our OATS. The test equipment employed includes HP8546A, BILOG3142.

Measurement Results The details and results of testing the EUT are summarized in Table 6.

Table 6: Fundamental Emission Field Strength.

Frequency Range	Det	IF Bandwidth	Video Bandwidth	Test Date:	19-Jan-18
25 MHz f 1 000 MHz	Pk/QPk	120 kHz	300 kHz	Test Engineer:	Gordon Helm
f > 1~000~MHz	Pk	1 MHz	3 MHz	EUT:	TRW Toy Tx
f > 1~000~MHz	Avg	1 MHz	10 kHz	EUT Mode:	CW
				Meas. Distance:	3 meters

													FCC/IC
	Freq.	Ant.	Ant.	Table Azim.	Ant Height	Ka	Kg	E3(Pk)**	E3(Avg)*	FCC/IC E3(Pk)	FCC/IC E3(Avg)	Pass	
#	MHz	Used	Pol.	deg	m	dB/m	dB	dBμV/m	$dB\muV/m$	Lim. dBµV/m	Lim. dBµV/m	dB	Comments
1	312.1	BILO3142	Н	160.0	1.3	17.3	-1.2	71.9	71.9	95.4	75.4	3.5	side (key in)
1	312.1	BILO3142	Н	160.0	1.3	17.3	-1.2	71.9	71.9	95.4	75.4	3.5	side (key out)
2	312.1	BILO3142	V	240.0	1.8	17.3	-1.2	69.4	69.4	95.4	75.4	6.0	end (key in)
3	314.4	BILO3142	Н	160.0	1.3	17.3	-1.2	70.5	70.5	95.4	75.4	4.9	side (key in)
4	314.4	BILO3142	V	240.0	1.8	17.3	-1.2	68.0	68.0	95.4	75.4	7.4	end (key in)

<sup>\*</sup>Avg data computed from Peak Measured Data and EUT Duty Cycle. EUT in CW mode.

# 4.3 Unintentional Emissions

Date: January 28, 2018

# 4.3.1 Transmit Chain Spurious Emissions

**Test Setup & Procedure** The test equipment and facilities were setup in accordance with the standards and procedures listed in Section 2.1. Environmental conditions were set at the appropriate temperature and thermal balance was checked with a thermocouple based probe. Spurious radiated emissions measurements are performed to 10 times the highest fundamental operating frequency. The test equipment employed includes HP8546A, BILOG3142, RH3115.

Measurement Results The details and results of testing the EUT are summarized in Table 7.

Table 7: Transmit Chain Spurious Emissions.

Frequency Range	Det	IF Bandwidth	Video Bandwidth	Test Date:	19-Jan-18
25 MHz f 1 000 MHz	Pk/QPk	120 kHz	300 kHz	Test Engineer:	Gordon Helm
f > 1 000 MHz	Pk/Avg	1 MHz	3 MHz	EUT:	TRW Toy Tx
				EUT Mode:	CW
				Meas. Distance:	3 meters

Transmitter Unintentional Spurious Emissions								FCC/IC					
	Freq.	Ant.	Ant.	Table Azim.	Ant Height	Ka	Kg	E3(Pk)**	E3(Avg)	FCC/IC E3lim (Pk)	FCC/IC E3lim (Avg)	Pass	
#	MHz	Used	Pol.	deg	m	dB/m	dB	dBμV/m	dBμV/m	$dB\mu V/m$	dBμV/m	dB	Comments
1	624.2	BILO3142	Н	180.0	1.1	19.9	-2.1	26.7	26.7	75.4	55.4	28.7	max all
2	624.2	BILO3142	V	240.0	1.9	19.9	-2.1	27.4	27.4	75.4	55.4	28.0	max all
3	936.3	BILO3142	Н	350.0	1.7	25.2	-2.9	31.5	31.5	75.4	55.4	23.9	max all
4	936.3	BILO3142	V	80.0	1.1	25.2	-2.9	29.9	29.9	75.4	55.4	25.5	max all
5	1248.4	RH3115	H/V	20.0	1.3	26.6	-1.4	37.0	37.0	75.4	55.4	18.4	max all
6	1560.5	RH3115	H/V	90.0	2.1	27.2	-1.7	40.0	40.0	75.4	55.4	15.4	max all
7	1872.6	RH3115	H/V	180.0	1.5	27.8	-2.0	37.0	37.0	75.4	55.4	18.4	max all
8	2184.7	RH3115	H/V	180.0	1.0	28.3	-2.2	42.0	42.0	75.4	55.4	13.4	max all
9	2496.8	RH3115	H/V	90.0	1.8	28.7	-2.4	44.0	44.0	75.4	55.4	11.4	max all, noise
10	2808.9	RH3115	H/V	270.0	1.8	29.1	-2.6	43.0	43.0	75.4	55.4	12.4	max all, noise
11	3121.0	RH3115	H/V	270.0	1.8	29.4	-2.8	42.0	42.0	75.4	55.4	13.4	max all, noise
12													
13	628.7	BILO3142	Н	180.0	1.1	20.0	-2.1	26.7	26.7	75.4	55.4	28.7	max all
14	628.7	BILO3142	V	240.0	1.9	20.0	-2.1	24.7	24.7	75.4	55.4	30.7	max all
15	943.1	BILO3142	Н	350.0	1.7	25.1	-3.0	31.5	31.5	75.4	55.4	23.9	max all
16	943.1	BILO3142	V	80.0	1.1	25.1	-3.0	29.9	29.9	75.4	55.4	25.5	max all
17	1257.4	RH3115	H/V	20.0	1.3	26.6	-1.5	37.0	37.0	75.4	55.4	18.4	max all
18	1571.8	RH3115	H/V	90.0	2.1	27.2	-1.7	40.0	40.0	75.4	55.4	15.4	max all
19	1886.1	RH3115	H/V	180.0	1.5	27.8	-2.0	37.0	37.0	75.4	55.4	18.4	max all
20	2200.5	RH3115	H/V	180.0	1.0	28.3	-2.2	42.0	42.0	75.4	55.4	13.4	max all
21	2514.8	RH3115	H/V	90.0	1.8	28.7	-2.4	44.0	44.0	75.4	55.4	11.4	max all, noise
22	2829.2	RH3115	H/V	270.0	1.8	29.1	-2.6	43.0	43.0	75.4	55.4	12.4	max all, noise
23	3143.5	RH3115	H/V	270.0	1.8	29.4	-2.8	42.0	42.0	75.4	55.4	13.4	max all, noise

<sup>\*</sup>Avg data computed from Peak Measured Data and EUT Duty Cycle. EUT in CW mode.

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# 4.3.2 Radiated Digital Spurious

The results for the measurement of digital spurious emissions are not reported herein as all digital emissions were greater than 20 dB below the regulatory limit. Radiation from digital components was measured to 4 GHz, or to five times the maximum digital component operating frequency, whichever is greater.

# 5 Measurement Uncertainty and Accreditation Documents

The maximum values of measurement uncertainty for the laboratory test equipment and facilities associated with each test are given in the table below. This uncertainty is computed for a 95.45% confidence level based on a coverage factor of k=2.

Table 8: Measurement Uncertainty.

Measured Parameter	${\bf Measurement~Uncertainty^{\dagger}}$
Radio Frequency	$\pm (f_{Mkr}/10^7 + RBW/10 + (SPN/(PTS - 1))/2 + 1 \text{ Hz})$
Conducted Emm. Amplitude	$\pm 1.9\mathrm{dB}$
Radiated Emm. Amplitude $(30 - 200 \mathrm{MHz})$	$\pm 4.0\mathrm{dB}$
Radiated Emm. Amplitude $(200 - 1000 \mathrm{MHz})$	$\pm 5.2\mathrm{dB}$
Radiated Emm. Amplitude $(f > 1000 \mathrm{MHz})$	$\pm 3.7\mathrm{dB}$

†Ref: CISPR 16-4-2:2011+A1:2014



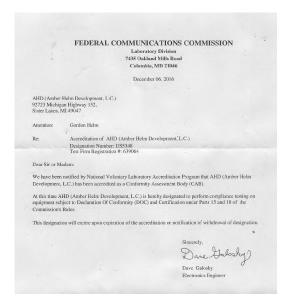




Figure 7: Accreditation Documents