

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4096B
109AB-99FT4096B

**Report on Test Measurements for FCC ID ABZ99FT4096B, HVIN SLR 5700-UHF1B per FCC
47 CFR 90 and IC RSS-119.**

E1-12 Test Setup Details

Test Location:

(for all tests except radiated emissions)

Motorola Solutions, Inc., Schaumburg Lab
2000 Progress Parkway, Schaumburg, IL 60196
FCC Registration Number 786245
IC CAB Identifier US0220
Test Engineer Matt Nawrocki

(for radiated emissions)

Elite Electronic Engineering Inc.
1516 Centre Circle Dr., Downers Grove, IL 60515
FCC Registration Number 269750
IC Registration Number 2987A
IC CAB Identifier US0107
Test Engineer Tylar Jozefczyk

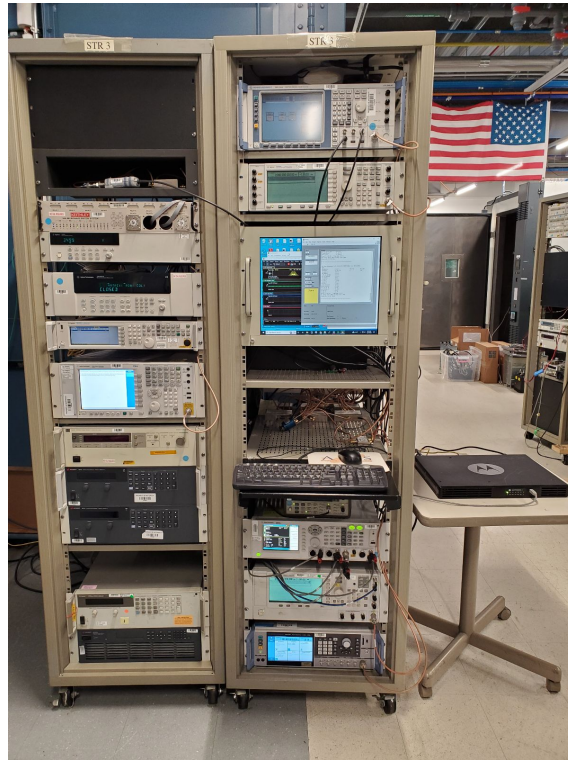
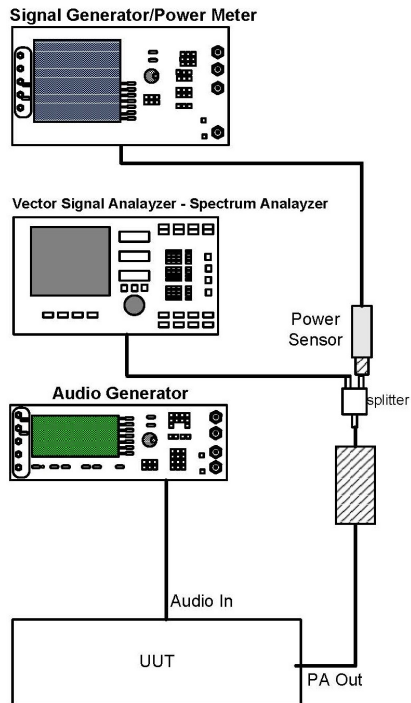
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Test Setup: Motorola Solutions

RF Output Power, Occupied Bandwidth, Frequency Stability, Frequency Transient Behavior,
Modulation Characteristics



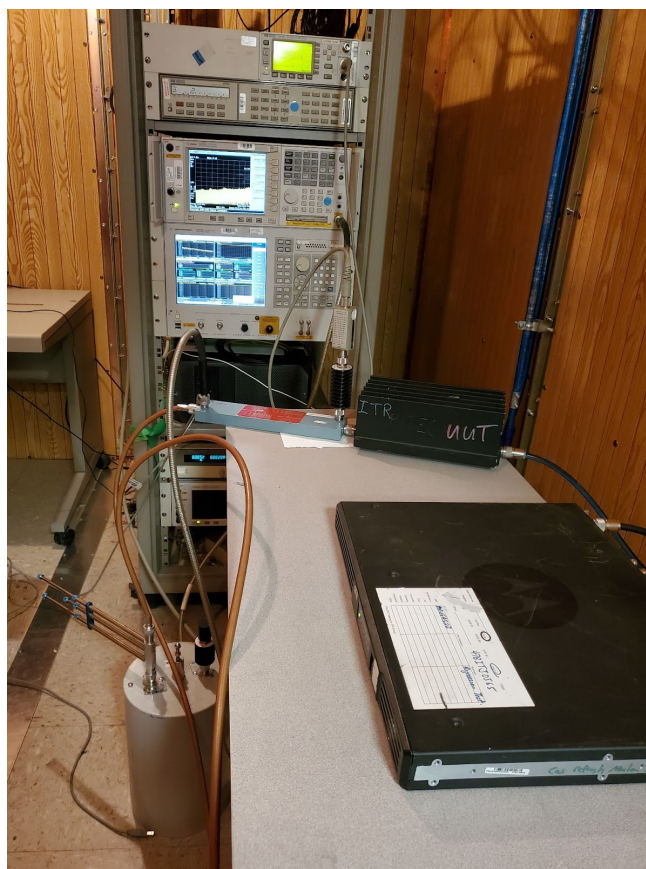
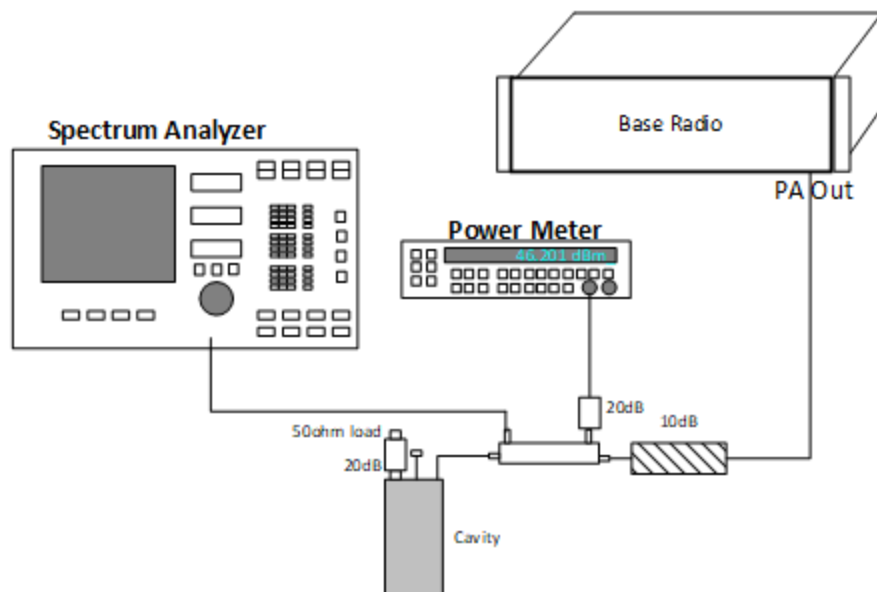
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Conducted Spurious Emissions Close-in



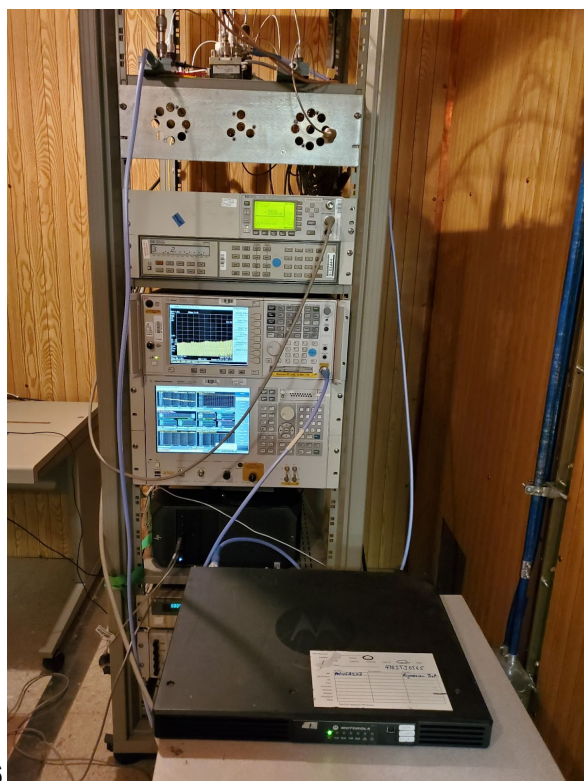
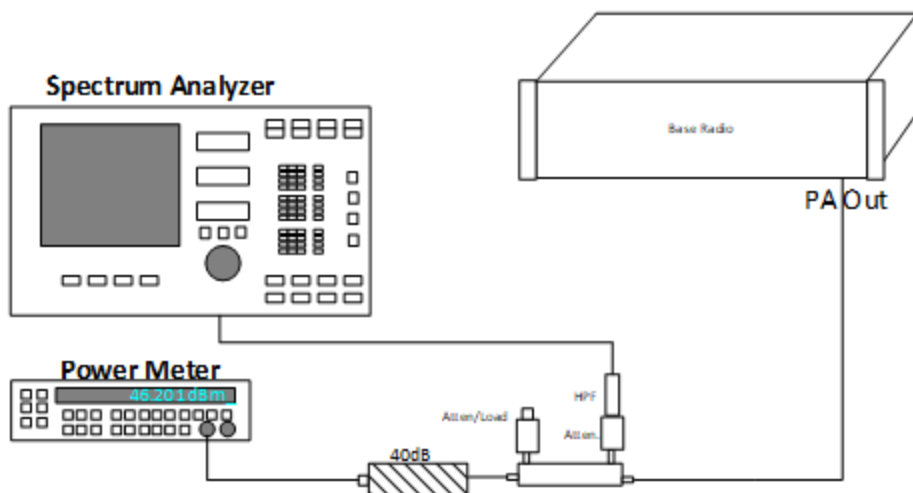
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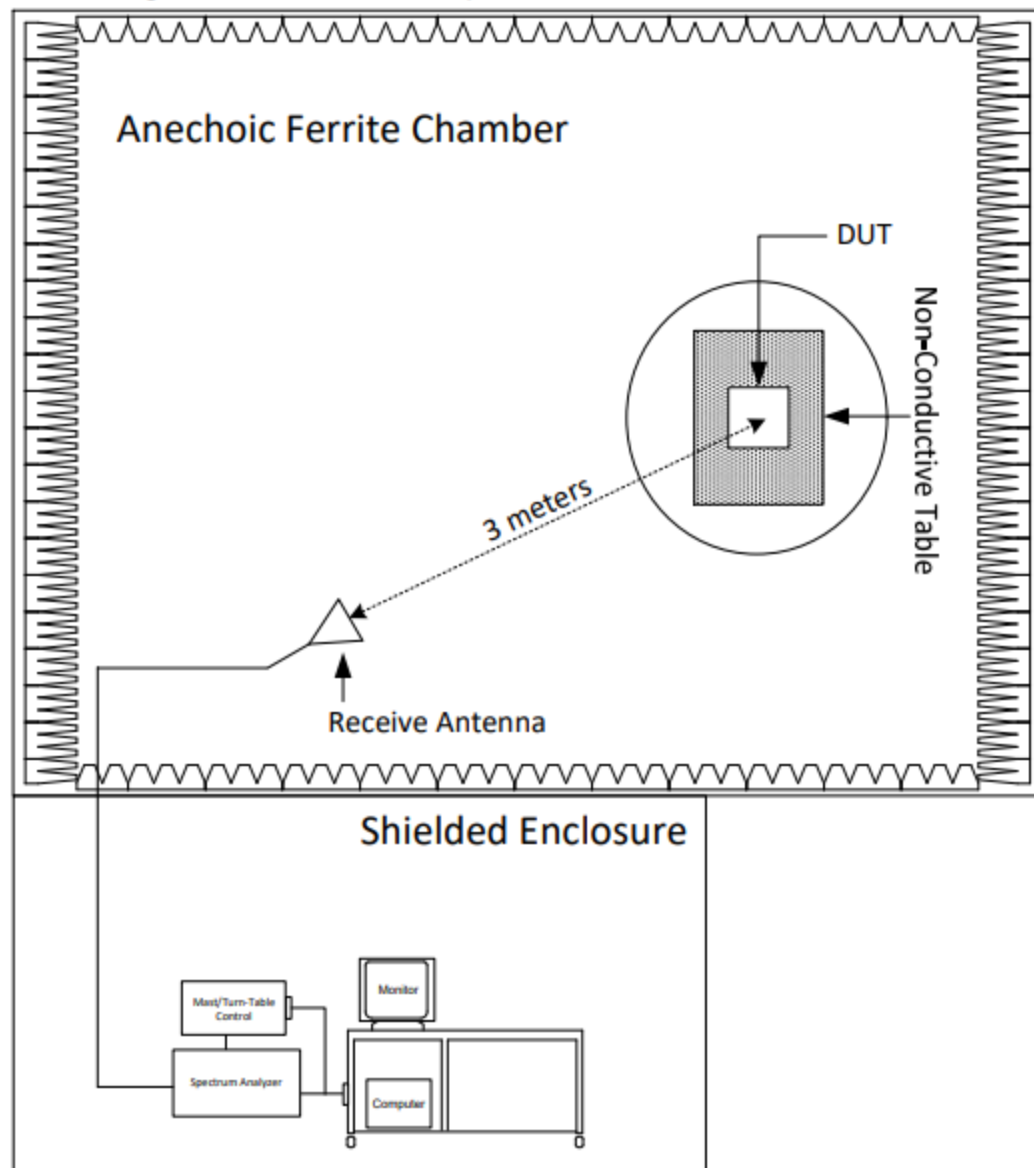
Conducted Harmonic Emissions



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Report on Test Measurements for FCC ID ABZ99FT4096B, HVIN SLR 5700-UHF1B per FCC 47 CFR 90 and IC RSS-119.

Test Setup: Elite



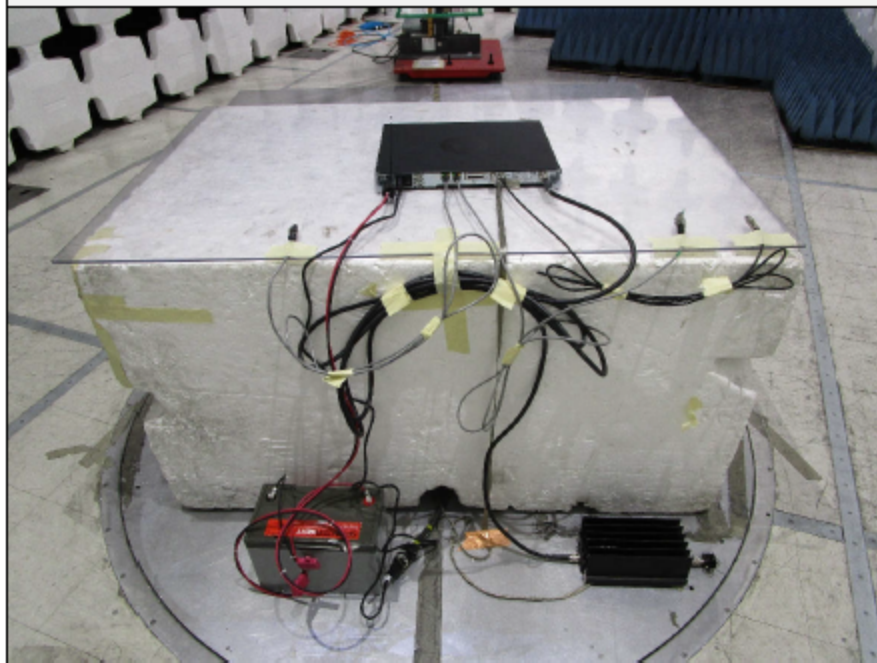
Radiated Measurements Test Setup

APPLICANT: MOTOROLA SOLUTIONS

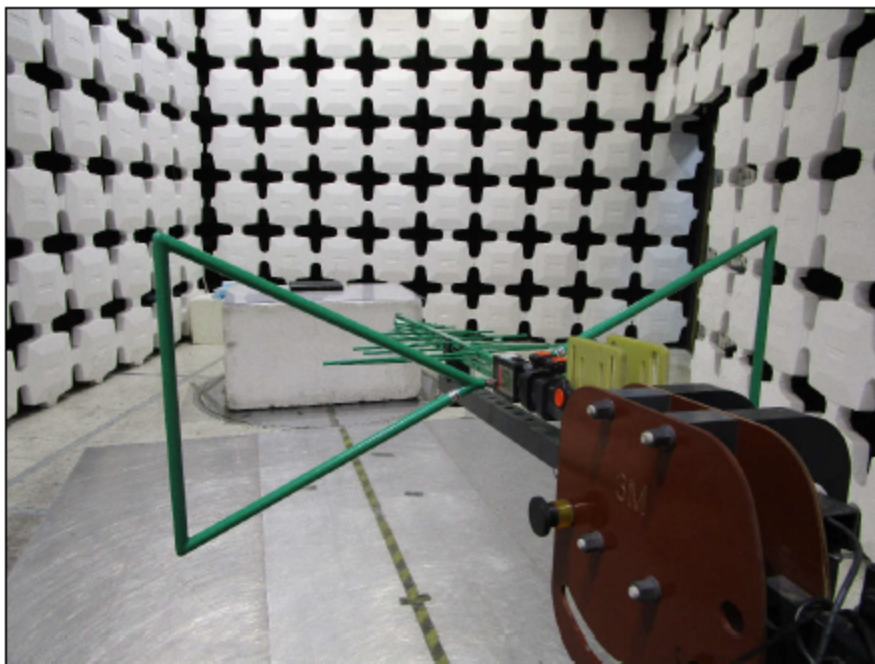
EQUIPMENT TYPE: ABZ99FT4096B

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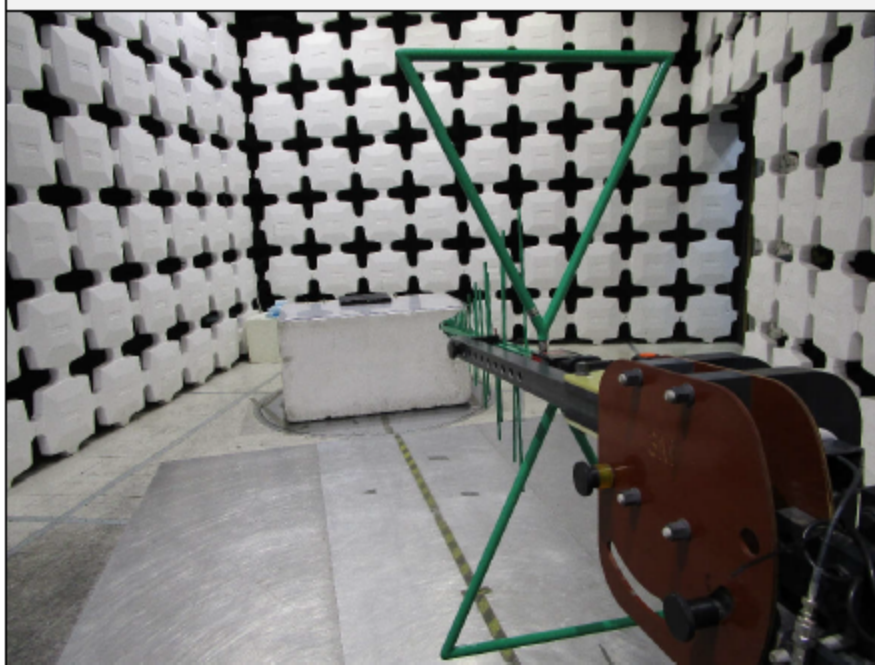
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**Report on Test Measurements for FCC ID ABZ99FT4096B, HVIN SLR 5700-UHF1B per FCC
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Test Setup for Radiated Emissions: 30MHz to 1GHz, Horizontal Polarization



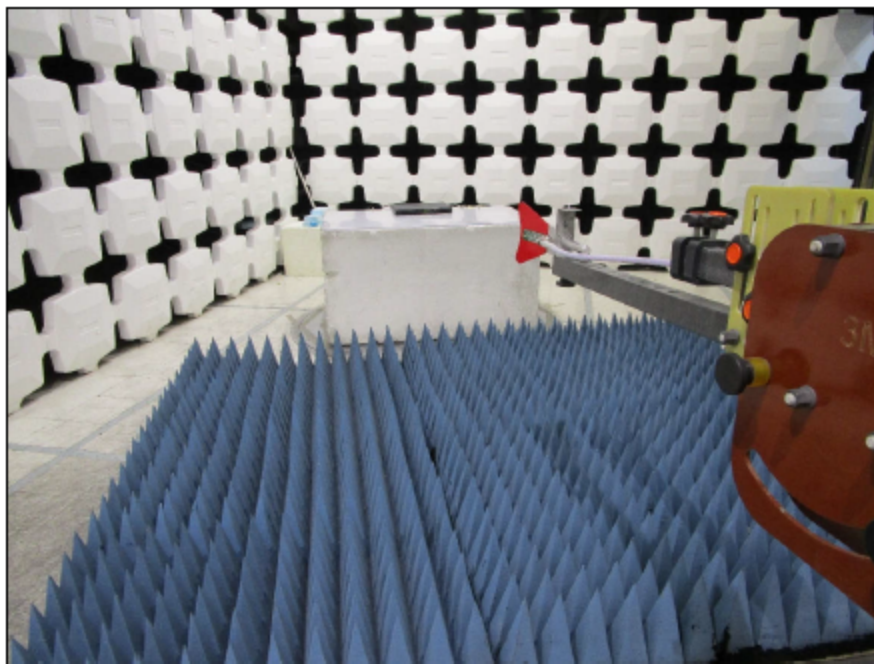
Test Setup for Radiated Emissions: 30MHz to 1GHz, Vertical Polarization

APPLICANT: MOTOROLA SOLUTIONS

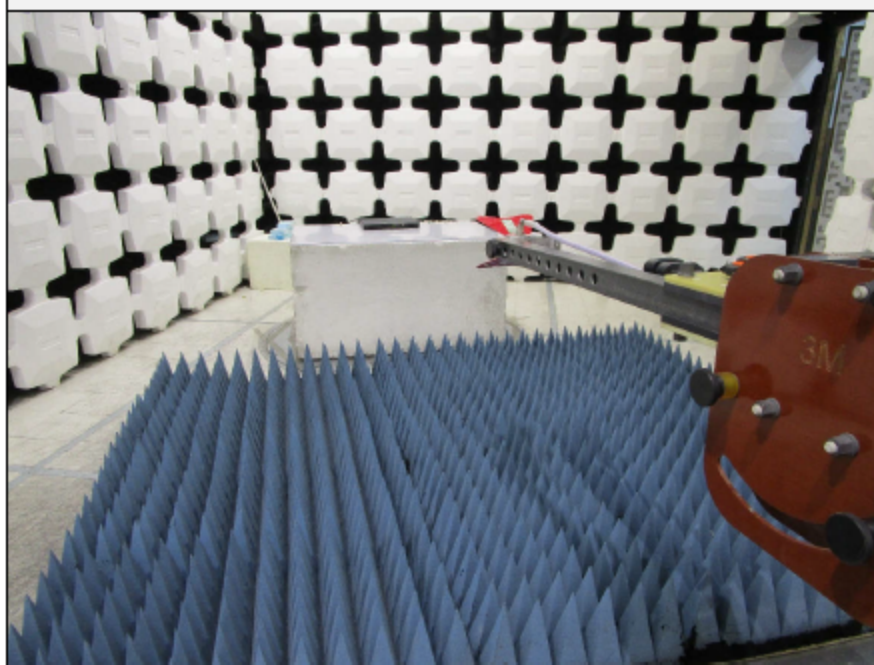
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Report on Test Measurements for FCC ID ABZ99FT4096B, HVIN SLR 5700-UHF1B per FCC 47 CFR 90 and IC RSS-119.



Test Setup for Radiated Emissions: 1GHz to 2GHz, Horizontal Polarization



Test Setup for Radiated Emissions: 1GHz to 2GHz, Vertical Polarization

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Report on Test Measurements for FCC ID ABZ99FT4096B, HVIN SLR 5700-UHF1B per FCC 47 CFR 90 and IC RSS-119.

Test Equipment List – Motorola Solutions

Manufacturer	Model	Serial Number	Description	Last Cal	Due Date
Keysight/Agilent/HP	N9030A	MY53310751	PXA Signal Analyzer, 3 Hz to 50 GHz	09-07-2022	09-07-2024
Keysight/Agilent/HP	U8903A	my50500002	Audio Analyzer, 10 Hz to 100 kHz	09-04-2022	09-04-2023
Rohde & Schwarz	NRP-Z11	101590	Power Sensor	08-31-2022	8-31-2024
Rohde & Schwarz	SMU200A	101350	Signal Generator / Power Meter	12-30-2021	12-29-2024
Keysight/Agilent/HP	34401A	3146A59752	Digital Multimeter	08-29-2022	08-29-2026
Keysight/Agilent/HP	8482a	gg00004032	Power Sensor	08-30-2022	08-30-2023
Keysight/Agilent/HP	E5071C	MY46316134	ENA Series Network analyzer	08-31-2022	09-31-2023
Thermotron	WS-120-C HM-15-15	52516	Temperature Chamber	03-07-2022	03-07-2024
Keysight/Agilent/HP	E4440A	my46185813	PSA Spectrum Analyzer 3 Hz - 26.5 GHz	09-06-2022	09-06-2024
Keysight/Agilent/HP	8753es	us39175306	S-parameter Network Analyzer	09-01-2022	09-01-2023

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Test Equipment List – Elite

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW14	PREAMPLIFIER	PLANAR	PE2-35-120-SRD-10-12-SFF	PL22671	1-20GHz	9/21/2022	9/21/2023
CDZ3	LAB WORKSTATION	ELITE	LWS-10		WINDOWS 10	CNR	
GRE2	SIGNAL GENERATOR	AGILENT	E4438C	MY42081749	250KHZ-6GHZ	3/4/2022	3/4/2023
NDQ1	TUNED DIPOLE ANTENNA	EMCO	3121C-DB4	313	400-1000MHZ	9/14/2022	9/14/2024
NSDS1	UNIVERSAL SPHERICAL DIPOLE SOURCE	AET	USDS-H	AET-1116		NOTE 1	
NTA2	BILOG ANTENNA	TESEQ	6112D	28040	25-1000MHZ	5/19/2022	5/19/2024
NWQ1	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS-LINDGREN	3117	66655	1GHZ-18GHZ	5/26/2022	5/26/2024
NWQ2	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66659	1GHZ-18GHZ	4/27/2022	4/27/2024
RBG2	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101591	2HZ-44GHZ	3/31/2022	3/31/2023
SES0	24VDC POWER SUPPLY	P-TRANS	FS-32024-1M	001	18-27VDC	NOTE 1	
VBV2	CISPR EN FCC ICES RE.EXE	ELITE	CISPR EN FCC ICES RE.EXE	---	---	N/A	
WKA1	SOFTWARE, UNIVERSAL RCV EMI	ELITE	UNIV_RCV_EMI	1	---	I/O	

N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

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E1-13 Statement of Certification

The technical data supplied with this application, having been taken under my supervision is hereby duly certified. The following is a statement of my qualifications:

College Degree: BSEE, University of Illinois, Urbana-Champaign, Illinois, USA

37 years of Design and Development experience in the field of two-way radio communication.

NAME: Robert Sarocka



SIGNATURE: _____

DATE: December 12, 2022

POSITION: Technical Manager

I hereby certify that the above application was prepared under my direction and that to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct:

NAME: Jerry Flondro



SIGNATURE: _____

DATE: December 12, 2022

POSITION: Director

REPORT END

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