

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4096

109AB-99FT4096

**Report on Test Measurements for FCC ID ABZ99FT4096, HVIN SLR 5700-UHF1 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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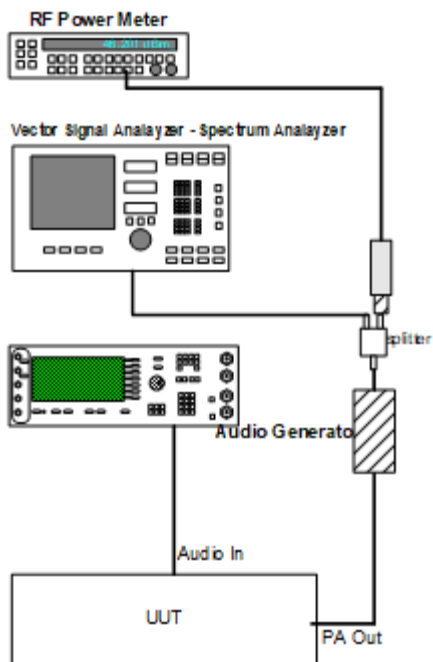
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Test Setup: Motorola Solutions

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



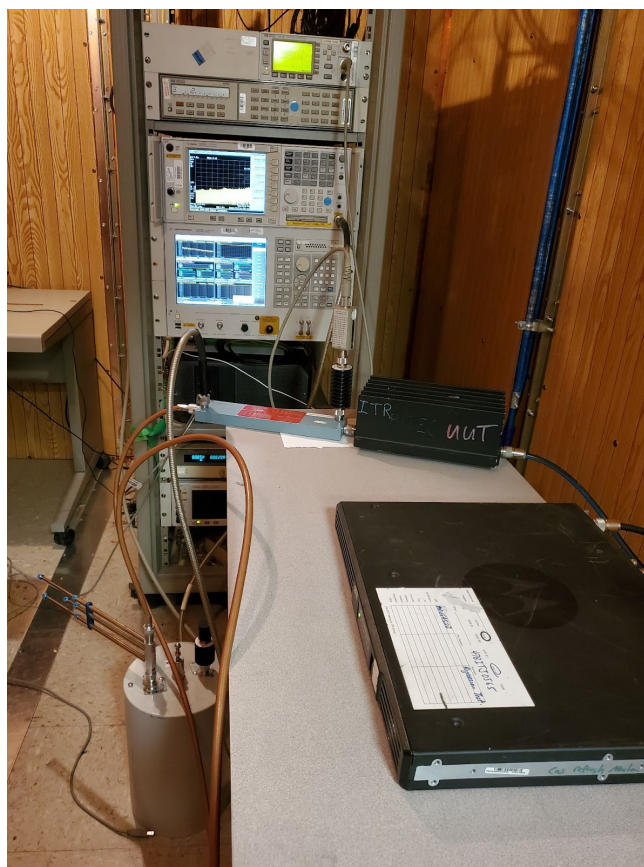
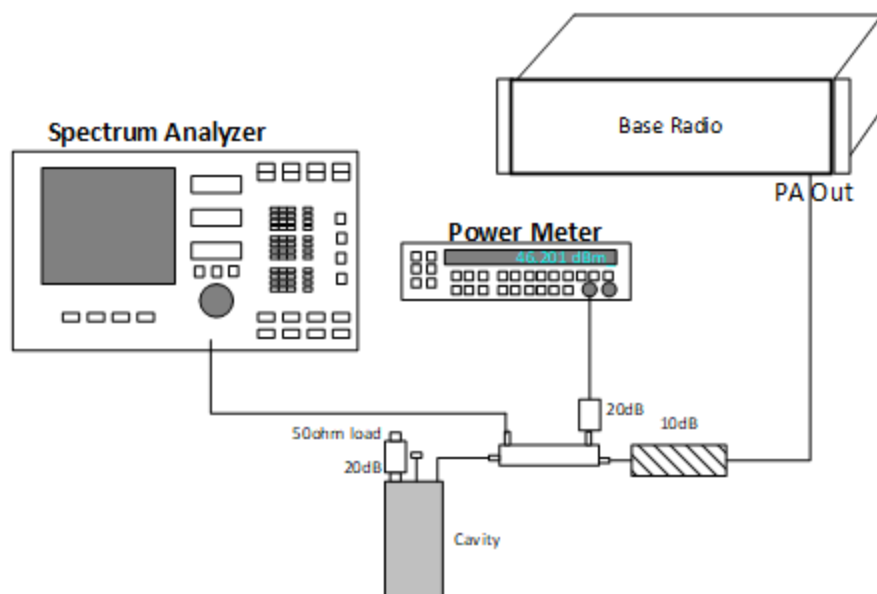
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Conducted Spurious Emissions Close-in



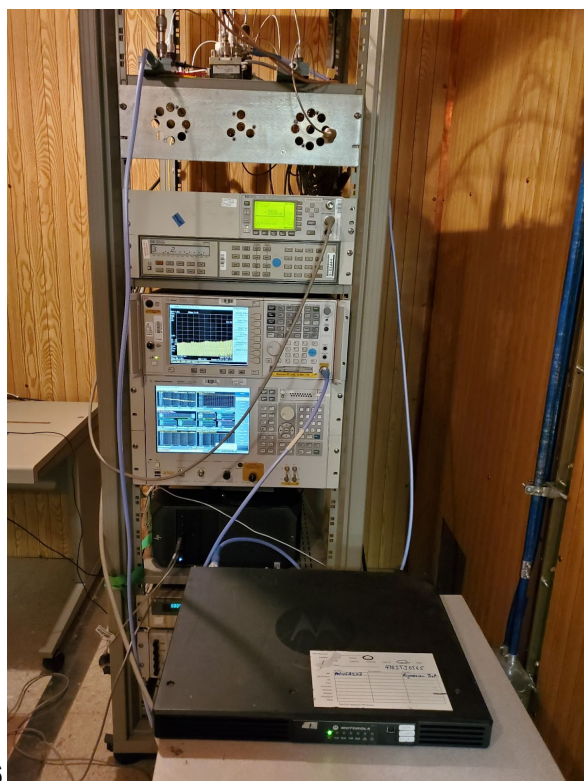
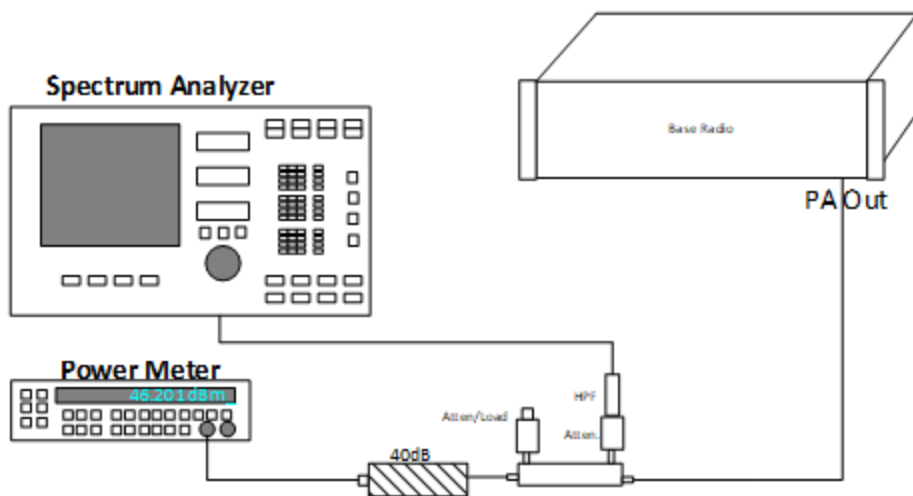
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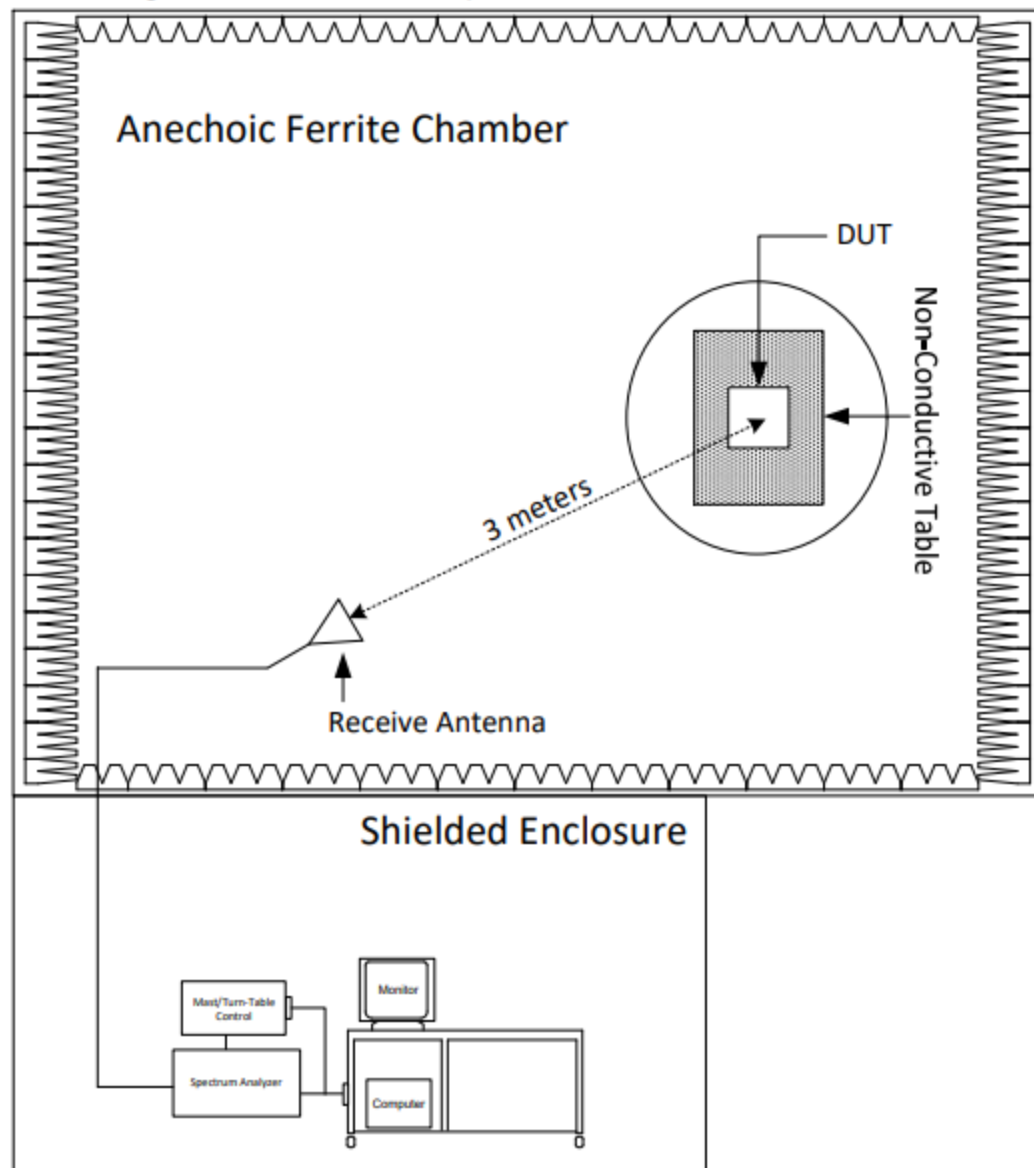
Conducted Harmonic Emissions



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**Report on Test Measurements for FCC ID ABZ99FT4096, HVIN SLR 5700-UHF1 per FCC 47 CFR 90 and IC RSS-119.**

Test Setup: Elite



**Radiated Measurements Test Setup**



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**Report on Test Measurements for FCC ID ABZ99FT4096, HVIN SLR 5700-UHF1 per FCC 47 CFR 90 and IC RSS-119.**



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



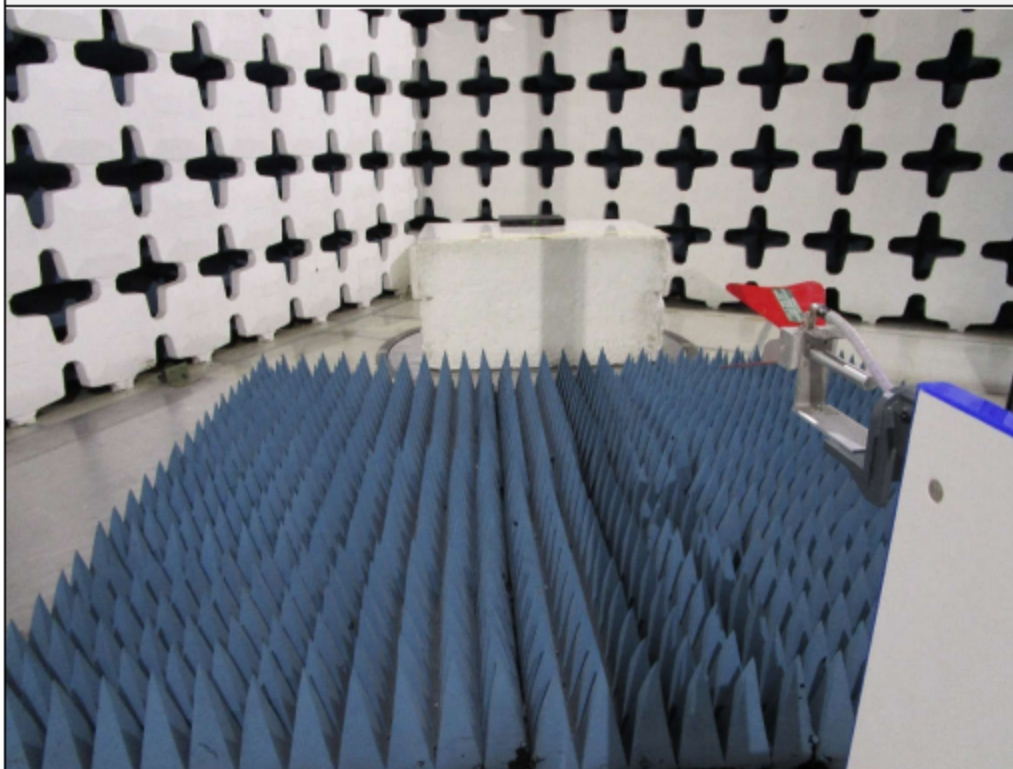
Test Setup for Radiated Emissions: 30MHz to 1GHz, Vertical Polarization



**Report on Test Measurements for FCC ID ABZ99FT4096, HVIN SLR 5700-UHF1 per FCC 47 CFR 90 and IC RSS-119.**



Test Setup for Radiated Emissions: 1GHz to 5GHz, Horizontal Polarization



Test Setup for Radiated Emissions: 1GHz to 5GHz, Vertical Polarization



**Report on Test Measurements for FCC ID ABZ99FT4096, HVIN SLR 5700-UHF1 per FCC 47 CFR 90 and IC RSS-119.**Test Equipment List – Motorola Solutions

Manufacturer	Model	Serial Number	Description	Last Cal	Next Cal
Keysight/Agilent/HP	N9030A	MY53310751	Signal Analyzer	09-21-21	09-21-22
Keysight/Agilent/HP	U8903A	my50500002	Audio Analyzer	08-23-21	08-23-22
Rohde & Schwarz	NRP-Z11	101590	Three-Path Diode Power Sensors	08-12-20	08-12-22
Keysight/Agilent/HP	E5071C	MY46316134	Network analyzer	09-23-21	09-23-22
Thermotron	WS-108-C HM-15-15- 5-S	9107	Temperature Chamber	12-06-21	12-06-23
Keysight/Agilent/HP	E4440A	my46185813	Spectrum Analyzer	08-12-20	08-12-22
Keysight/Agilent/HP	8482a	gg00004032	Power Sensor	09-20-21	09-20-22
Keysight/Agilent/HP	8753es	us39175306	S-parameter Network Analyzer	09-28-21	09-28-22

Test Equipment List – Elite

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Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
APW3	PREAMPLIFIER	PLANAR ELECTRONICS	PE2-35-120-5R0-10-12	PL2924	1GHZ-20GHZ	3/9/2022	3/9/2023
CDZ4	LAB WORKSTATION	ELITE	LWS-10		WINDOWS 10	CNR	
GRE1	SIGNAL GENERATOR	AGILENT	E4438C	MY42081749	250KHZ-6GHZ	3/7/2022	3/7/2023
NDQ1	TUNED DIPOLE ANTENNA	EMCO	3121C-DB4	313	400-1000MHZ	7/28/2020	7/28/2022
NSDS1	UNIVERSAL SPHERICAL DIPOLE SOURCE	AET	USDS-H	AET-1116		NOTE 1	
NTA4	BILOG ANTENNA	TESEQ	6112D	46660	20-2000GHZ	10/5/2020	10/5/2022
NWQ1	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS-LINDGREN	3117	66655	1GHZ-18GHZ	4/28/2020	4/28/2022
NWQ2	DOUBLE RIDGED WAVEGUIDE ANTENNA	ETS LINDGREN	3117	66659	1GHZ-18GHZ	4/7/2020	4/7/2022
RBG2	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101591	2HZ-44GHZ	3/11/2021	4/11/2022
SHC2	Power Supplies	HENGFU	HF60W-SL-24	A11372702	24V	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

\_\_36\_\_ years of Design and Development experience in the field of two-way radio communication.

NAME: Robert Sarocka



SIGNATURE: \_\_\_\_\_

DATE: April 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: April 12, 2022

POSITION: Director

REPORT END

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