

**EXHIBIT VI. Supplemental Test Report For New Certification
Of A Previously Certified OEM Module**

FCC ID: AZ489FT7007

HDT 600 Handheld Data Terminal

Certification Under Part 90

Prepared On Behalf Of

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Supplemental Test Report

TABLE OF CONTENTS

Cover Page	1
Table Of Contents	2
Exhibit 6A – RF Power Output (2.1046)	3
Exhibit 6G – Transmitter Radiated Spurious Emissions (2.1053)	4
Exhibit 6G - Equivalent Isotropic Radiated Power	5
Exhibit 11 – RF Exposure Information	see Exhibit 11

Note: Please refer to the original Certification data for FCC ID: AZ489FT5796, uploaded separately with this application for all other test report Exhibits not expected to have changed with the addition of a new antenna.

EXHIBIT 6A TEST: RF Power Output

FCC ID: AZ489FT7007
 Grantee: Motorola, Inc.
 Model: F4415A

Maximum Mobile Output Power: Part 90.635 allows 100 Watts (20 dBw)

Test Results: The measured output power level shows compliance with the granted output in Watts referenced below.

Authorization Procedure: Part 2.1046

Operating Frequency Band: 806 – 821 MHz

Output Power at Antenna Terminals: 0.7 Watts 0.7 Watts *Granted*

Method of Measurement:

1. The transmitter was set at maximum power level "0", with TDMA modulation.
2. The peak output power was measured with HP438A Power Meter & HP8482H Power Sensor.
3. The measured channels covered the low, mid and high channels covering the operational frequency range of this transmitter of 806 – 821 MHz.

MEASUREMENT DATA**Conducted RF Power Output Results At The Antenna Terminal**

HDT 600 iDEN Test Mode TDMA			800 MHz Internal	EIRP	
Frequency (MHz)	Power (W)	Power (dBm)	Antenna Gain (dB)	Power (W)	Power (dBm)
806.0	0.689	28.38	0.0	0.689	28.38
813.5	0.690	28.39	0.0	0.690	28.39
821.0	0.692	28.40	0.0	0.692	28.40

EXHIBIT 6G TEST: TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: AZ489FT7007
 Applicant: Motorola, Inc.
 Model: F4415A

Minimum Standard Specified: Part 90.210
 Test Results: Equipment complies with standard
 Authorization Procedure: Part 2.1053
 Test Equipment Set Up: See Block Diagram in Exhibit 7
 Frequency Range Observed: 30 to 8135 MHz
 Spurious Limit = $43 + 10\log_{10}(\text{PO})$ or $43 + 10\log_{10}(0.7) = 41.45 \text{ dB}$

Note: 3 meters EUT to antenna distance, using 1 MHz RBW and VBW for measurements above 1 GHz. A high pass filter was used during the measurements of the harmonics to reduce the fundamental signal and avoid overloading the front end of the analyzer.

RADIATED HARMONIC AND SPURIOUS EMISSIONS									
Frequency GHz	SA Rdg. dBuV	Ant. Vert. or Horiz.	Peak or Average Reading	Antenna Factor dB	Cable & filter loss dB	Amp Gain	Corrected Reading dBuV/m	Margin in dB below Limit	3m Limit dBuV/m
Fo – 815.00									
2Fo 1.627	33.00	V	Peak	25.70	1.72	- 0 -	60.42	23.88	84.3
2Fo 1.627	36.17	H	Peak	25.70	1.72	- 0 -	63.59	20.71	84.3
3Fo 2.4405	36.33	V	Peak	28.37	2.05	- 0 -	66.75	17.55	84.3
3Fo 2.4405	34.83	H	Peak	28.37	2.05	- 0 -	65.25	19.05	84.3
4Fo 3.2540	39.67	V	Peak	30.5	2.27	- 0 -	72.44	11.86	84.3
4Fo 3.2540	36.50	H	Peak	30.5	2.27	- 0 -	69.27	15.03	84.3
Harmonic emissions measured on 813.50 MHz from 5Fo – 10Fo at or below noise floor									
Channel	Frequency in GHz		Harmonics Observed @3m				Limit 84.3 dBuV/m		
Mid Ch. Fo									
813.500									
5Fo – 10Fo	4.0675 – 8.1350		None measureable < noise floor				All emissions > 20 dB below the limit		

Note: A sample calculation on following page.

Test: Equivalent Isotropic Radiated Power

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 Grantee: Motorola, Inc.
 Model: F4415A

Discussion:

Measurements of the EIRP were made at 3 meters EUT to antenna spacing. The EUT was investigated in three mutually orthogonal planes. The maximum levels reported below were observed with the HDT 600 flat on it's back on the table and horizontal receive antenna polarization. Turntable rotation, combined with antenna height and polarization adjustments were made to maximize the measured levels. Resolution and Video Bandwidth both and 100 kHz.

FREQUENCY MHz	Maximum Spectrum Analyzer Reading dBuV	Ant Factor D-4 Di-pole Sn:1336 Vertical Polarization	Cable Loss	dBuV/m	uV/m	EIRP Watts
815.0	106.5	27.8	-inc-	134.3	5188000.	1.32

Sample calculation for 3 meter radiated spurious limit

This example is based on a 1 Watt peak conducted output power and Part 90.210 (g) requirements.

$$43 + 10\log(1 \text{ W}) = 43 \text{ dB}$$

Therefore the spurious emissions must be reduced below the carrier by 43 dB.

$$1 \text{ Watt or } 125.2289 \text{ dBuV/m} - 43 \text{ dB} = 82.2 \text{ dBuV/m}$$

$$\text{Referenced to a half wavelength tuned di-pole: } 82.2 \text{ dBuV/m} + 2.1 \text{ dB} = 84.3 \text{ dBuV/m}$$

Therefore the 3 meter radiated spurious emissions limit is 84.3 dBuV/m.