

EXHIBIT VI.

Supplemental Test Report For New Certification Of Previously Certified OEM Module

FCC ID: AZ489FT7003

HDT 600 Terminal

WLAN Certification Under Part 15.247

Prepared On Behalf Of

Motorola, Inc.
8000 West Sunrise Blvd.
Ft. Lauderdale, Florida 33322

Prepared

By

Spectrum Technology, Inc.
209 Dayton Street, Suite 205
Edmonds, WA 98020
425 771-4482

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Exhibit VI

Supplemental Test Report

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Note: Please refer to the original Certification exhibits uploaded with this new application for all of the original test report data for the following Symbol Technologies, Inc. Intentional Radiator:

1.) **FCC ID: H9PLA4121**, IEEE 802.11(b), WLAN Compact Flash Card, Model: LA4121

EXHIBIT 6A TEST: CONDUCTED RF POWER OUTPUT

FCC ID: AZ489FT7003
 Applicant: Motorola, Inc.
 Model: F4415A

Minimum Standard Specified: Part 15.247 is 1 Watt

Test Results: The measured output power level shows compliance with the minimum standard

Authorization Procedure: Part 2.1046

Maximum Measured RF Output Power: 22 dBm - conducted measurement

Method of Measurement:

1. The two output power levels referenced above, had been preset during production for each model.
2. The peak output power was measured with HP438A Power Meter & HP8482H Power Sensor.
3. The measured channels cover the bottom, middle and top of the operational frequency range previously approved for each intentional radiator.

Tabular Results of Conducted RF Output Power and EIRP

WLAN				
Frequency (GHz)	Power (mW)	Power (dBm)	Maximum Ant Gain	EIRP
2.420	143.0	21.55	-3	18.55
2.442	156.0	21.93	-3	18.93
2.460	165.0	22.00	-3	19.00

Antenna System	Antenna Type	Electrical Length	Physical Length	Max Gain (dBi)
WLAN S24	Inverted F	$\lambda/4$	42x32	-3

The maximum **WLAN** EIRP is 19.0 dBm.

EXHIBIT 6G TEST: RADIATED HARMONICS AND SPURIOUS EMISSIONS

FCC ID: AZ489FT7003
 Applicant: Motorola, Inc.
 Model: F4415A

Minimum Standard Specified: Part 15.247

Test Results: Equipment complies with standard

Authorization Procedure: Part 2.1053

Test Equipment Set Up: See Block Diagram in Exhibit 7

Frequency Range Observed: 0 to 24 GHz

Operating Frequencies 2.420, 2.442, & 2.460 GHz (2412 – 2462 GHz band)

Maximum Measured RF Output 22 dBm conducted

WLAN FREQUENCY GHz	Ant. Vert/ Horz	Spectrum Analyzer Reading dBuV	+ Ant Factor	- Amp Gain	+ Cable Loss	= dBuV/m	uV/m
Ch. Low 2.420	V	88.83	28.37	22.3	2.6	97.50	74989.42
Ch. Mid 2.442	V	89.67	28.37	22.3	2.6	98.34	82603.79
Ch. High 2.460	V	91.83	28.37	22.3	2.6	100.50	105925.37

RADIATED HARMONIC AND SPURIOUS EMISSIONS & RESTRICTED BANDS

All measureable harmonic and spurious emissions were below the limit. An HP preamplifier was used during the measurements of the harmonics. A high pass filter was used to reduce the fundamental signal and avoid the possibility of overloading the front end of the analyzer.

Test Notes:

- 1.) All harmonics in the restricted bands listed in Part 15.205 are below the Part 15.209 limit.
- 2.) No peak emissions above 1 GHz are more than 20 dB above the average limit.
- 3.) Peak measurements made with 1 MHz RBW & VBW, Average made with 1MHz RBW & 10 Hz VBW.
- 4.) During preliminary measurements at .5 meter the EUT was measured in 3 mutually orthogonal planes. The worst case found with the EUT on it's right side so this position was used during final test made at 3 meters
- 5.) The EUT was powered with a fresh battery during the testing

The test results are on the following page.

EXHIBIT 6G TEST: FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

FCC ID: AZ489FT7003
 Applicant: Motorola, Inc.
 Model: F4415A

Minimum Standard Specified: Part 15.247(c)
 Authorization Procedure: Part 2.1053

Test Results: Equipment complies with standard

RADIATED HARMONIC AND SPURIOUS EMISSIONS & RESTRICTED BANDS									
Frequency GHz	Max. SA Rdg. dBuV	Ant. Vert. or Horz.	Peak or Average Detector	Antenna Factor dB	Cable & filter loss dB	Amp Gain	Corrected Reading dBuV/m	Limit 74 Peak 54 Avg dBuV	Margin
Fo - 2.420									
4.840	44.83	V	Peak	32.83	3.95	23.2	58.41	74	15.59
4.840	35.33	V	Average	32.83	3.95	23.2	48.91	54	5.09
7.260	48.50	H	Peak	36.77	4.55	25.9	63.92	74	10.80
7.260	32.67	H	Average	36.77	4.55	25.9	48.09	54	5.91
9.680	48.50	H	Peak	37.55	5.10	24.7	66.45	74	7.55
9.680	32.17	H	Average	37.55	5.10	24.7	50.12	54	3.88
Fo - 2.437									
4.874	49.83	V	Peak	33.33	3.95	23.2	63.91	74	10.09
4.874	36.17	V	Average	33.33	3.95	23.2	50.25	54	3.75
7.311	53.67	H	Peak	36.77	4.55	25.9	69.09	74	4.91
7.311	33.50	H	Average	36.77	4.55	25.9	49.92	54	4.08
9.7480	47.33	H	Peak	37.55	5.10	24.7	65.28	74	8.72
9.7480	31.83	H	Average	37.55	5.10	24.7	49.78	54	4.22
Fo - 2.460									
4.920	49.50	V	Peak	33.33	3.95	23.2	63.58	74	10.42
4.920	35.00	V	Average	33.33	3.95	23.2	49.08	54	4.92
7.380	52.50	H	Peak	36.77	4.55	25.9	67.92	74	6.08
7.380	34.17	H	Average	36.77	4.55	25.9	49.59	54	4.41
9.840	49.83	H	Peak	37.55	5.10	24.7	67.78	74	6.62
9.840	32.33	H	Average	37.55	5.10	24.7	50.28	54	3.72
Harmonic emissions on all three channels (low, mid & high) 5Fo – 10Fo at or below noise floor									
Channel	Frequency in GHz	Harmonics Observed				Limit 74 dBuV/m Peak & 54 dBuV/m Average			
Low Ch.	2.420								
5Fo – 10Fo	12.100 – 24.200	None -at or < noise floor @3m				All emissions < 54 dBuV/m or 500 uV/m			
Mid Ch.	2.437								
5Fo – 10Fo	12.185 – 24.370	None -at or < noise floor @3m				All emissions < 54 dBuV/m or 500 uV/m			
High Ch.	2.460								
5Fo - 10Fo	7.440 – 24.460	None -at or < noise floor @3m				All emissions < 54 dBuV/m or 500 uV/m			