

EXHIBIT VI.

Supplemental Test Report For New Certification Of Two Previously Certified OEM Modules

FCC ID: AZ489FT7001

EMERALD Terminal

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 two Symbol Technologies, Inc. Intentional Radiators:

- 1.) **FCC ID: H9PLA4137**, IEEE 802.11(b), WLAN Compact Flash Card, Model: LA4137 and
- 2.) **FCC ID: H9PCRS1**, Bluetooth, Model: CRS1-10000-00

EXHIBIT 6A TEST: CONDUCTED RF POWER OUTPUT

Applicant: Motorola, Inc.

FCC ID: AZ489FT7001

FCC ID:

AZ489FT7001

Applicant:

Motorola, Inc.

Model:

F5071A

Minimum Standard Specified:

Part 15.247 is 1 Watt

Test Results:

The measured output power level on two samples shows compliance with the granted levels of: 0.1 Watt for WLAN and 0.001 Watt for the Bluetooth

Authorization Procedure:

Part 2.1046

Nominal Rated Output Power:

WLAN	18 dBm conducted	DSSS
Bluetooth	-2 dBm conducted	FHSS

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 S/N 184SCG0205			Sample 1			WLAN S/N 184SBW0578			Sample 2		
Frequency (GHz)	Power (mW)	Power (dBm)				Frequency (GHz)	Power (mW)	Power (dBm)			
2.420	36.43	15.61				2.420	39.74	15.99			
2.442	41.54	16.18				2.442	42.92	16.33 *			<i>* max.</i>
2.460	35.33	15.48				2.460	33.67	15.27			

The maximum **WLAN** EIRP (with antenna gain -2 dBi) is 14.44 dBm.

Bluetooth S/N 184SCG0205			Sample 1			Bluetooth S/N 184SBW0578			Sample 2		
Frequency (GHz)	Power (mW)	Power (dBm)				Frequency (GHz)	Power (mW)	Power (dBm)			
2.407	0.57440	-2.41				2.407	0.44510	-3.52			
2.442	0.59340	-2.27*			<i>* max.</i>	2.442	0.49717	-3.03			
2.475	0.56702	-2.46				2.475	0.46146	-3.36			

The maximum **Bluetooth** EIRP (with antenna gain -2 dBi) is -5.36 dBm.

Applicant: Motorola, Inc.

FCC ID: AZ489FT7001

EXHIBIT 6G TEST: RADIATED HARMONICS AND SPURIOUS EMISSIONS

FCC ID: AZ489FT7001
Applicant: Motorola, Inc.
Model: F5071A

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 **WLAN**: 2.420, 2.442, & 2.460 GHz (2412 – 2462 GHz band)

Rated Power Output **WLAN**: 0.1 Watt 18 dBm conducted

WLAN		Ant. Vert/ Horz	Spectrum Analyzer Reading dBuV	+ Ant Factor	- Amp Gain	+ Cable Loss	= dBuV/m	uV/m
FREQUENCY GHz								
Ch. Low	2.420	V	82.83	28.37	22.3	2.6	91.50	37583
Ch. Mid	2.442	V	80.83	28.37	22.3	2.6	89.50	29853
Ch. High	2.460	V	74.17	28.37	22.3	2.6	82.84	13867

WLAN	Frequency in GHz	Harmonics observed	Limit 74 dBuV/m Peak & 54 dBuV/m Average
Ch. Low Fo	2.420		
2Fo - 10Fo	4.840 – 24.200	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
Ch. Mid Fo	2.442		
2Fo - 10Fo	4.884 – 24.420	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
Ch. High Fo	2.460		
2Fo - 10Fo	4.920 – 24.600	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m

All harmonic and spurious emissions were below the limit. A few of the lower harmonics were measurable at .5 m but, not a 3 m. 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

EXHIBIT 6G TEST: RADIATED HARMONICS AND SPURIOUS EMISSIONS

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

AZ489FT7001
 Motorola, Inc.
 F5071A

FCC ID: AZ489FT7001

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 **Bluetooth**: 2.407, 2.442, & 2.475 GHz (2402 – 2480 GHz band)

Rated Power Output **Bluetooth**: 0.001 Watt -2 dBm conducted

Bluetooth FREQUENCY GHz	Ant. Vert/ Horz	Analyzer Reading dBuV	+ Ant Factor	- Amp Gain	+ Cable Loss	= dBuV/m	uV/m
Ch. Low 2.407	V	77.67	28.37	22.3	2.6	86.34	20749
Ch. Mid 2.442	V	74.33	28.37	22.3	2.6	81.0	14125
Ch. High 2.475	V	77.33	28.37	22.3	2.6	86.0	19952

Bluetooth	Frequency in GHz	Harmonics observed	Limit 74 dBuV/m Peak & 54 dBuV/m Average
Ch. Low Fo	2.407		
2Fo - 10Fo	4.814 – 24.070	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
Ch. Mid Fo	2.442		
2Fo - 10Fo	4.884 – 24.420	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
Ch. High Fo	2.475		
2Fo - 10Fo	4.950 – 24.750	At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m

All harmonic and spurious emissions were below the noise floor of –115 dBm. A few of the lower harmonics were visible at .5 m but, not a 3 m. An HP preamplifier was used during the measurements of the harmonics. A high pass filter was used to reduce the fundamental signal and avoid any 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 m, the EUT was measured in 3 mutually orthogonal planes with the worst case found with the EUT on it's right side. So this position was used during final measurements at 3 meters.
- 5.) The EUT was powered with a fresh battery during the testing.