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FCC PART 15 ERP

TEST REPORT

Applicant	**MOTOROLA SOLUTIONS, INC.**
Address	8000 WEST SUNRISE BLVD FT. LAUDERDALE FL 33322-9947 USA
FCC IC	AZ489FT5870
Model Number	DLR1060
Product Description	4 CH 900 MHZ FH RADIO
Date Sample Received	3/2/2015
Date Tested	3/2/2015
Date Report Issued	3/2/2015
Tested By	Cory Leverett
Approved By	Sid Sanders
Test Results	☒ PASS ☐ FAIL

Report Number	Version Number	Description	Issue Date
418UT15TestReport_ERP.docx	Rev.1	Initial Issue	3/2/2015

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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

The test results only relate to the item tested.

ATTESTATIONS

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025: 2005 requirements.

I attest that the necessary measurements were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, Fl 32669

Authorized Signatory Name:

Cory Leverett
Engineering Project Manager

Date: 3/2/2015

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TEST ENVIRONMENT

Test Facility	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 USA.
Test Condition in the laboratory	Temperature: 24-26ºC Relative humidity: 50-65%

TEST SETUP SUMMARY

Test Setup Diagram/ Description	The EUT was placed on the turntable. The EUT was positioned in three orthogonal phases and the Output power was maximized. The EUT placed In a horizontal position on its right side produced the strongest signal.
Deviation from the standard/procedure	No deviation
Modification of EUT	No modification

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EUT SPECIFICATION

EUT Description	8 CH 900 MHZ FH RADIO
EUT Applications	Portable Radio
FCC ID	AZ489FT5870
Model Number	DLR1060
Frequency Range	902.525 – 927.475 MHz
Test Frequencies	902.525, 915.525, 927.475 MHz
No. Channels	8
EUT Power Source	☐ 110–120Vac/50– 60Hz (Rx Only with Charger)
	☐ DC Power
	☒ Battery Operated Exclusively
Test Item	☐ Prototype
	☒ Pre-Production
	☐ Production
Type of Equipment	☐ Fixed
	☐ Mobile
	☒ Portable
Modifications to EUT:	☒ No ☐ Yes (explanation below)
Test Mode Description	Tuned to the Low, Middle, and High Frequency without modulation.

EUT CABLES FOR TESTING

Description	Type	Connector	Length
NA			

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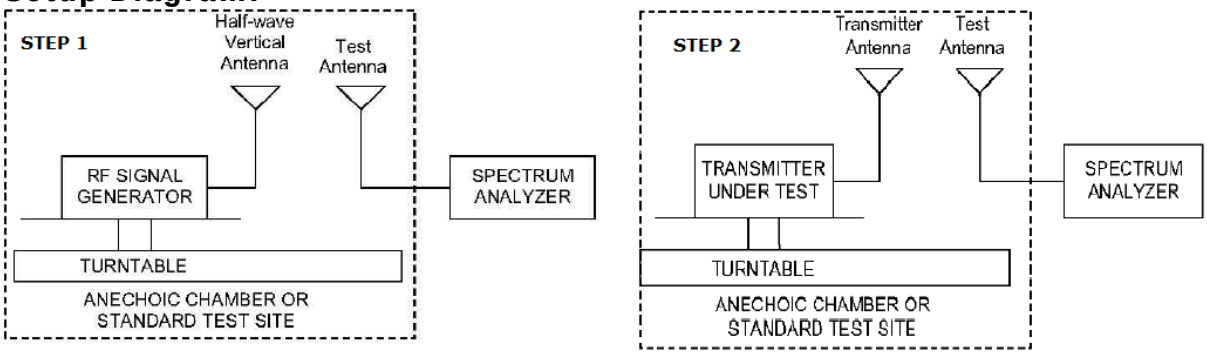
EFFECTIVE RADIATED POWER

Test Procedure: FCC KDB 412172 D01 Determining ERP and EIRP v01
The ERP/EIRP is determined from the power setting of a signal generator used in the signal/antenna substitution test configuration as follows:

ERP/EIRP = PSigGen + GT - LC

where:
•**PSigGen**= power setting of the signal generator that produces the same received power reading as the DUT, in dBm, dBW or psd;
•**GT**= gain of the substitute antenna, in dBd (ERP) or dBi (EIRP);
•**LC**= signal loss in the cable connecting thesignal generator to the substitute antenna, in dB.

Setup Diagram:



Results:

Freq (MHz)	Read Level (dBm)	Sig Gen (dBm)	Coax Loss (dBm)	Ant Gain dB	ERP (dBm)
902.525	0.42	-27.45	-0.3	5.32	33.49
915.525	0.82	-27.73	-0.25	4.83	33.63
927.475	-0.28	-28.09	-0.28	4.17	32.26

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Signal Generator	HP	8640B	2308A21464	2/23/14	2/23/16
Antenna: Log-Periodic Chamber	Eaton	96005	1243	05/31/13	05/31/15
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	12/31/13	12/31/15
Chamber Coax 3 Piece set	Semiflex	N/A	Chamber 3 cable set.	1/13/14	1/13/16
EMI Test Receiver R & S ESIB 40 Screen Room	Rohde & Schwarz	ESIB 40	100274	08/12/14	08/12/16
Software: Field Strength Program	Timco	N/A	Version 4.0	N/A	N/A
Coax Cable	NA	E9917	Tmco # 65	6/26/13	6/26/15

***EMI RECEIVER SOFTWARE VERSION**

The receiver firmware used was version 4.43 Service Pack 3

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