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<table><tr><td>Date/s Tested</td><td>: 28-May-2025 – 30-May-2025</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Inc (Plantation)</td></tr><tr><td>Manufacturer Address</td><td>: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blv d MD 41-128, USA Plantation FL 333222-9947</td></tr><tr><td>Requestor</td><td>: Stankovska Daniela</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Tested Basic Function</td><td>: Transmit / Receive</td></tr><tr><td>Product Marketing Name (PMN)</td><td>: APX NEXT</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: H55TGT9PW8BN</td></tr><tr><td>Frequency Band</td><td>: 5180-5320MHz; 5500-5825MHz</td></tr><tr><td>Max RF Output Power</td><td>: 128.59 mW</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr><tr><td>Firmware Version Identification Number (FVIN)</td><td>: D37.00.17 (BP), D37.00.02 (AP)</td></tr></table> The equipment was tested to the standard(s) listed below with the following result : <table><tr><td>- FCC Part 15 Subpart E 15.407 ISED RSS-247, Issue 4 July 2025</td><td>PASS</td></tr></table>		Date/s Tested	: 28-May-2025 – 30-May-2025	Manufacturer/Location	: Motorola Solutions Inc (Plantation)	Manufacturer Address	: Motorola Solutions INC. (Plantation), 8000 West Sunrise Blv d MD 41-128, USA Plantation FL 333222-9947	Requestor	: Stankovska Daniela	Product Type	: Portable	Tested Basic Function	: Transmit / Receive	Product Marketing Name (PMN)	: APX NEXT	Hardware Version Identification Number (HVIN)	: H55TGT9PW8BN	Frequency Band	: 5180-5320MHz; 5500-5825MHz	Max RF Output Power	: 128.59 mW	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	ISED Registrations	: MY0001	Firmware Version Identification Number (FVIN)	: D37.00.17 (BP), D37.00.02 (AP)	- FCC Part 15 Subpart E 15.407 ISED RSS-247, Issue 4 July 2025	PASS
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Prepared By:  Siti Nurhidayati Binti Abdul Halim Technician	Approved Signatory:  Ho Sze Khian Responsible Engineer																																

TABLE OF CONTENTS

1. Introduction and Overview	3
2. Test Laboratory Status.....	3
3. Test Environmental Conditions	3
3.1. Temperature and Humidity	3
3.2. Tolerance	3
3.3. Measurement Uncertainty.....	3
4. Test Results Summary	3
5. Technical Data of Device Under Test.....	4
5.1. Operating Frequency Bands and Mode of EUT	4
5.2. List of antennas and their corresponding gains	4
5.3. Modifications and deviation from standard	4
5.4. EUT Maximum Output Power	4
5.5. Channel loading messages or sequences	6
5.6. Transmit Power Control (TPC).....	6
5.7. Time required for master or client device to complete power cycle	6
5.8. System Architecture	6
5.9. Master device identification.....	6
6. Test setup and list of equipment.....	7
6.1. Setup block diagram	7
6.2. List of Equipment.....	7
6.3. Test Setup Photos	8
7. Test Requirements.....	9
7.1. DFS Requirements / Limits	9
7.2. DFS Detection Threshold	9
8. Test Procedure and Test Data	10
8.1. Test Method	10
8.2. Test Data	10

REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial report	26-July-2025	Siti Nurhidayati
Rev. B	1. Update Applicant Name from "Motorola Solutions Malaysia Sdn Bhd" to "Motorola Solutions Inc" 2. Update the EUT maximum output power for 802.11ac (80MHz) from "18.011dBm" to "17.933dBm" 3. Update the antenna from "WiFi Antenna" to "ILA"	1-August-2025	Siti Nurhidayati

NOTE: Accredited test.

1. Introduction and Overview

This report details the utilization, technical data of device under test, test equipment, and test results of the measurements performed at the Motorola Penang Advanced Communication Laboratory in accordance to the standards specified on page 1.

This test report is only valid in its original form.

The test results herein refer only to the tested sample. Motorola Penang Advanced Communication Laboratory is not responsible for any generalizations or conclusions drawn from these test results and concerning further samples.

2. Test Laboratory Status

Motorola Penang Advanced Communication Laboratory is an ISO/IEC17025:2005 accredited laboratory. The laboratory was accredited by SAMM, with SAMM Cert No #0825

3. Test Environmental Conditions

3.1. Temperature and Humidity

Ambient Temperature	Rel. Air Humidity
15 °C to 35 °C	20 %RH to 75%RH

3.2. Tolerance

Chamber Temperature Tolerance	Chamber Humidity Tolerance
± 0.3 °c	± 3 %

3.3. Measurement Uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96

4. Test Results Summary

The table below summarizes the test results for the test completed. For detailed test data, refer to section 7.

Section	Test Parameters	Results	Serial number
7.1.1	FCC Part 15.407 / RSS-247 Non Occupancy Period	PASS	437ZBG0233
7.1.2	FCC Part 15.407 / RSS-247 Channel Move Time	PASS	437ZBG0233
7.1.3	FCC Part 15.407 / RSS-247 Channel Closing Transmission Time	PASS	437ZBG0233

NOTE:

NA → Not Applicable

5. Technical Data of Device Under Test

5.1. Operating Frequency Bands and Mode of EUT

Operational Mode	Operating Frequency Range	
	5250-5350MHz	5470-5725MHz
Client without radar detection and ad hoc function	Yes	Yes

5.2. List of antennas and their corresponding gains

Antenna #	Type	Frequency Range	Max Gain (dBi)
1	ILA	5180-5240MHz	0.92
1	ILA	5260-5320MHz	0.03
1	ILA	5500-5700MHz	2.06
1	ILA	5720MHz	1.36
1	ILA	5725-5725MHz	0.71

5.3. Modifications and deviation from standard

There is no deviation between the test carried out compared to the standard test method

5.4. EUT Maximum Output Power

802.11a

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5260-5320MHz	18.106	18.136
1	5500-5580MHz	19.032	21.092
1	5660-5720MHz	18.058	20.118

802.11n (20MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5260-5320MHz	17.704	17.734
1	5500-5580MHz	18.739	20.799
1	5660-5720MHz	17.590	18.950

802.11n (40MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5270-5310MHz	17.886	17.916
1	5510-5550MHz	17.914	19.974
1	5670-5710MHz	18.840	20.900

802.11ac (80MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5290MHz	12.422	12.452
1	5530MHz	14.183	16.243
1	5690MHz	17.933	19.993

802.11ac (160MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5250MHz	13.258	13.728
1	5570MHz	13.066	15.126

802.11ax (20MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5260-5320MHz	17.838	17.868
1	5500-5580MHz	17.974	20.034
1	5660-5720MHz	17.561	18.921

802.11ax (40MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5270-5310MHz	17.688	17.718
1	5510-5550MHz	17.824	19.884
1	5670-5710MHz	18.580	20.640

802.11ax (80MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5290MHz	15.467	15.497
1	5530MHz	14.343	16.403
1	5690MHz	17.871	19.931

802.11ax (160MHz)

Antenna #	Frequency Range	Output Power (dBm)	Max EIRP including duty cycle correction
1	5250MHz	13.270	13.740
1	5570MHz	12.195	14.255

5.5. Channel loading messages or sequences

Channel loading was achieved by using iPerf software to control throughput.

5.6. Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35GHz band and the 5.47-5.725GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6dB below the EIRP value of 30dBm. A TPC mechanism is not required for systems with an EIRP of less than 500mW.

Maximum EIRP for this device is 21.092 dBm which is 128.59mW, therefore TPC is not required.

5.7. Time required for master or client device to complete power cycle

The master device took 1 minute and 15 seconds to complete its power cycle. The client device does not have radar detection and therefore its power on time is not applicable.

5.8. System Architecture

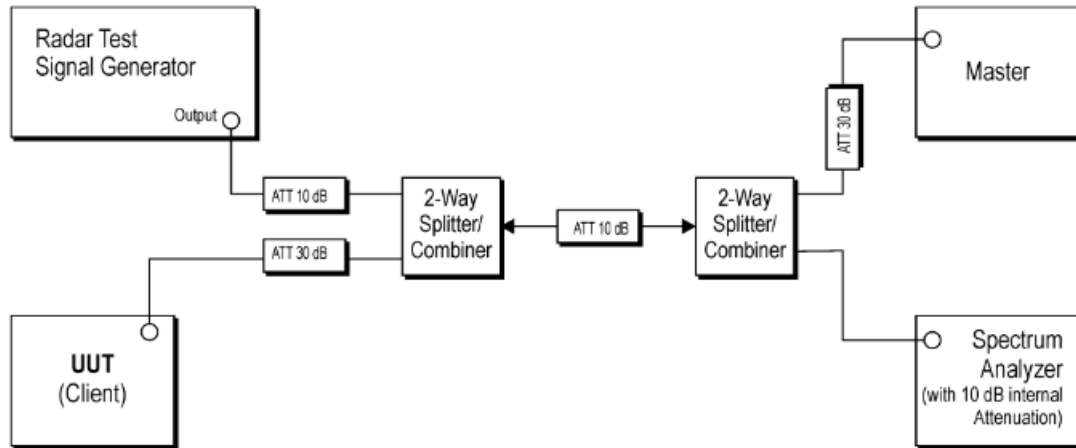
The EUT utilizes IP based system architecture

5.9. Master device identification

The DFS compliant master device used for testing was a Linksys WRT3200ACM with serial number 19810625700081, and FCC ID Q87-WRT3200ACM and IC ID 3839A-WRT3200ACM

6. Test setup and list of equipment

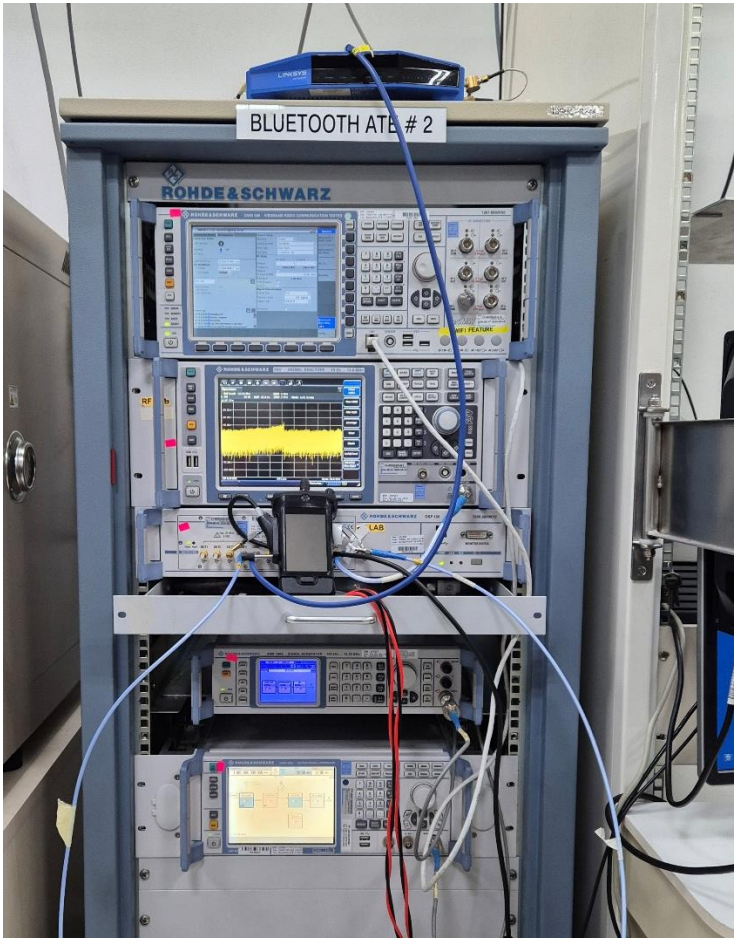
6.1. Setup block diagram



6.2. List of Equipment

Description	Model #	Serial Number	Calibration Date	Calibration Due Date
SIGNAL ANALYZER	FSV	101515	13-Aug-24	12-Aug-25
BASIC 8-CHANNEL SWITCH MODULE	OSP-B157W8	101073	16-Aug-24	15-Aug-25
VECTOR SIGNAL GENERATOR	SMBV100A	261962	21-Apr-21	21-Aug-25
CHAMBER	SH-641	92002651	10-Feb-25	10-Feb-26
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	154549	17-Aug-24	16-Aug-25
OPEN SWITCH & CONTROL UNIT	OSP120	101256	Not required	Not required
POWER SUPPLY	6032A	3232A08203	21-Aug-24	21-Aug-25
SIGNAL GENERATOR	SMB100A	177677	8-Jan-25	8-Jan-26

6.3. Test Setup Photos



7. Test Requirements

7.1. DFS Requirements / Limits

Requirement	Limit
Channel Move Time	10 seconds
Channel Closing Transmission Time	200ms + an aggregate 60ms over following 10 seconds
Non-Occupancy Period	30 minutes

7.2. DFS Detection Threshold

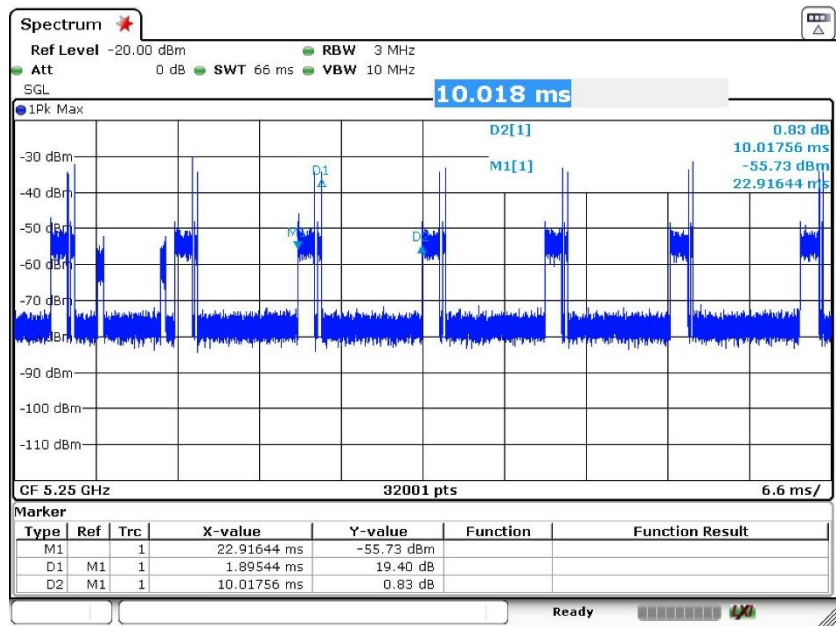
The calibrated conducted DFS detection threshold level was set at -63 dBm. This level exceeds the specification for the stipulated detection level of -64dBm and ensures there is margin to the limit to ensure successful detection.

8. Test Procedure and Test Data

8.1. Test Method

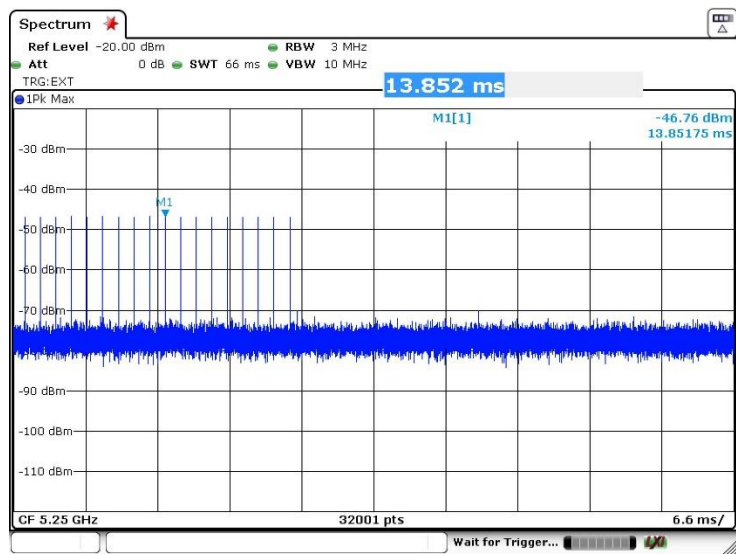
DFS testing was performed using the conducted test methods defined in 905462 D02 UNII DFS Compliance Procedures New Rules v02. The devices was a client only device without radar detection capability. The Rohde & Schwarz TS8997 test system in conjunction with WMS32 software was used for the automation of the testing.

8.2. Test Data



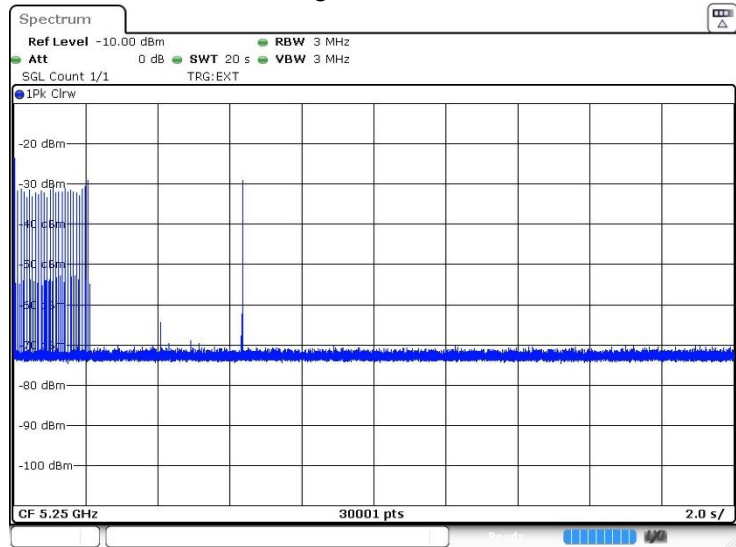
The resulting plot data was extracted and post processed, giving a duty cycle of 18.92%.

DFS Detection Threshold



Peak of -46.76dBm, with losses at combiners factoring antenna gain to be 15.81dB, therefore level going into antenna port is -62.57dBm which exceeds threshold level of -64dBm for successful detection.

Channel Move and Closing Time

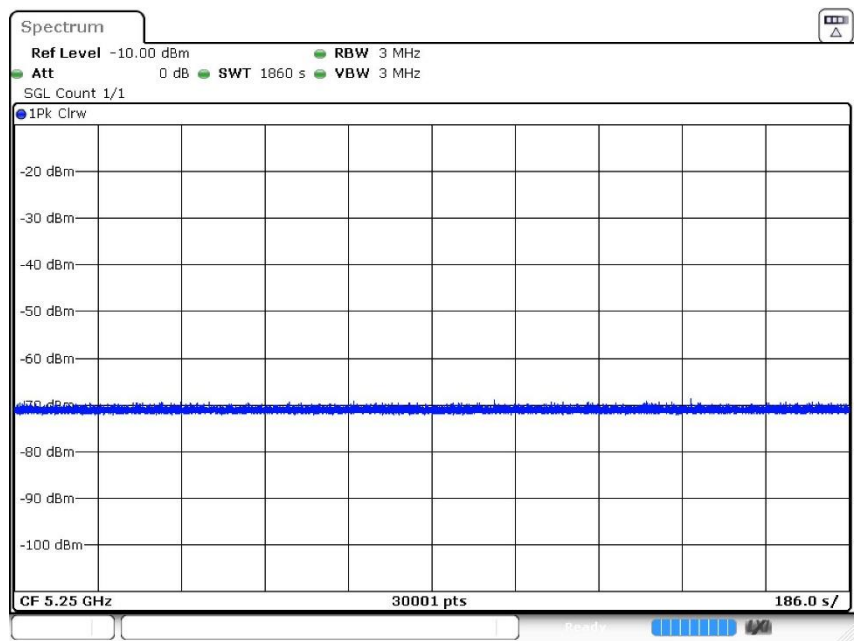


Channel Closing and Channel Move Time
Detailed Results

DUT Frequency (MHz)	Radar Type No.	Time duration	No of pulses found	Tx time (ms)	Tx Time Limit (ms)
5250	0	200ms	2	0.500	200
5250	0	remaining 9.8s period	25	6.880	60

Last transmission after injection of radar is 6.331 seconds, therefore meeting channel closing time 10s requirement.

Non-Occupancy Period



No pulses were detected in the 30 minutes that followed after channel move time, meeting non-occupancy 30 minute requirement.

END OF TEST REPORT