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|  <b>MOTOROLA SOLUTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    <br><b>CERTIFICATE 2518.08</b> <b>SAMM 825</b> |                                                                               |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>MOTOROLA PENANG ADV. COMM. LABORATORY</b><br>Motorola Solutions Malaysia Sdn Bhd,<br>Plot 2A Medan Bayan Lepas,<br>Mukim 12 S.W.D, 11900 Bayan Lepas,<br>Penang, Malaysia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>FCC Part 15 Subpart E, 15.407</b><br><br><b>Report Revision</b> : Rev.A<br><b>Report ID</b> : 40793-RF-00023<br><b>Service Request ID</b> : 40793                                                                                                                                                                                                                                         |                                                                               |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <table><tr><td><b>Date/s Tested</b></td><td>:</td><td>28-February-2024</td></tr><tr><td><b>Manufacturer/Location</b></td><td>:</td><td>Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td><b>Manufacturer Address</b></td><td>:</td><td>Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td><b>Requestor</b></td><td>:</td><td>HOMICIL HARLY</td></tr><tr><td><b>Product Type</b></td><td>:</td><td>Hand-held</td></tr><tr><td><b>Tested Basic Function</b></td><td>:</td><td>Transmit / Receive</td></tr><tr><td><b>External Model Name (PMN)</b></td><td>:</td><td>APX N70</td></tr><tr><td><b>Sales Model Number (HVIN)</b></td><td>:</td><td>H35XDT9PW8AN</td></tr><tr><td><b>Frequency Band</b></td><td>:</td><td>5180-5320MHz; 5500-5825MHz</td></tr><tr><td><b>Max RF Output Power</b></td><td>:</td><td>79.43mW</td></tr><tr><td><b>Applicant Name</b></td><td>:</td><td>Motorola Solutions Inc</td></tr><tr><td><b>Applicant Address</b></td><td>:</td><td>Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td><b>FCC Registrations</b></td><td>:</td><td>461337</td></tr><tr><td><b>ISED Registrations</b></td><td>:</td><td>MY0001</td></tr><tr><td><b>Firmware Version (FVIN)</b></td><td>:</td><td>D02.76.02</td></tr></table> <p><b>The equipment was tested to the standard(s) listed below with the following result :</b></p> <table><tr><td>-</td><td><b>FCC Part 15 Subpart E 15.407</b></td><td><b>PASS</b></td></tr><tr><td></td><td><b>ISED RSS-247, Issue 2 Section 6.3</b></td><td></td></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                              | <b>Date/s Tested</b>                                                          | : | 28-February-2024 | <b>Manufacturer/Location</b> | : | Motorola Solutions Malaysia Sdn Bhd | <b>Manufacturer Address</b> | : | Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia | <b>Requestor</b> | : | HOMICIL HARLY | <b>Product Type</b> | : | Hand-held | <b>Tested Basic Function</b> | : | Transmit / Receive | <b>External Model Name (PMN)</b> | : | APX N70 | <b>Sales Model Number (HVIN)</b> | : | H35XDT9PW8AN | <b>Frequency Band</b> | : | 5180-5320MHz; 5500-5825MHz | <b>Max RF Output Power</b> | : | 79.43mW | <b>Applicant Name</b> | : | Motorola Solutions Inc | <b>Applicant Address</b> | : | Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia | <b>FCC Registrations</b> | : | 461337 | <b>ISED Registrations</b> | : | MY0001 | <b>Firmware Version (FVIN)</b> | : | D02.76.02 | - | <b>FCC Part 15 Subpart E 15.407</b> | <b>PASS</b> |  | <b>ISED RSS-247, Issue 2 Section 6.3</b> |  |
| <b>Date/s Tested</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | :                                                                                                                                                                                                                                                                                                                                                                                            | 28-February-2024                                                              |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Manufacturer/Location</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | :                                                                                                                                                                                                                                                                                                                                                                                            | Motorola Solutions Malaysia Sdn Bhd                                           |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Manufacturer Address</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | :                                                                                                                                                                                                                                                                                                                                                                                            | Plot 2A Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia  |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Requestor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | :                                                                                                                                                                                                                                                                                                                                                                                            | HOMICIL HARLY                                                                 |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Product Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | :                                                                                                                                                                                                                                                                                                                                                                                            | Hand-held                                                                     |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Tested Basic Function</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | :                                                                                                                                                                                                                                                                                                                                                                                            | Transmit / Receive                                                            |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>External Model Name (PMN)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | :                                                                                                                                                                                                                                                                                                                                                                                            | APX N70                                                                       |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Sales Model Number (HVIN)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | :                                                                                                                                                                                                                                                                                                                                                                                            | H35XDT9PW8AN                                                                  |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Frequency Band</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :                                                                                                                                                                                                                                                                                                                                                                                            | 5180-5320MHz; 5500-5825MHz                                                    |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Max RF Output Power</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | :                                                                                                                                                                                                                                                                                                                                                                                            | 79.43mW                                                                       |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Applicant Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | :                                                                                                                                                                                                                                                                                                                                                                                            | Motorola Solutions Inc                                                        |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Applicant Address</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | :                                                                                                                                                                                                                                                                                                                                                                                            | Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>FCC Registrations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | :                                                                                                                                                                                                                                                                                                                                                                                            | 461337                                                                        |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>ISED Registrations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | :                                                                                                                                                                                                                                                                                                                                                                                            | MY0001                                                                        |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <b>Firmware Version (FVIN)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | :                                                                                                                                                                                                                                                                                                                                                                                            | D02.76.02                                                                     |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>FCC Part 15 Subpart E 15.407</b>                                                                                                                                                                                                                                                                                                                                                          | <b>PASS</b>                                                                   |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>ISED RSS-247, Issue 2 Section 6.3</b>                                                                                                                                                                                                                                                                                                                                                     |                                                                               |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <p>This report shall not be reproduced without written approval from an officially designated representative of the Motorola Penang Adv. Comm. Laboratory. The results and statements contained in this report pertain only to the device(s) evaluated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |
| <p>Prepared By:</p> <br><b>Nur Alieya Binti Mat Yusoff</b><br><b>Technician</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Approved Signatory:</p> <br><b>Vincent Foong Chuen Kit</b><br><b>Responsible Engineer</b>                                                                                                                                                                                                            |                                                                               |   |                  |                              |   |                                     |                             |   |                                                                              |                  |   |               |                     |   |           |                              |   |                    |                                  |   |         |                                  |   |              |                       |   |                            |                            |   |         |                       |   |                        |                          |   |                                                                               |                          |   |        |                           |   |        |                                |   |           |   |                                     |             |  |                                          |  |

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## REVISION HISTORY

| Revision History | Description    | Date          | Originator |
|------------------|----------------|---------------|------------|
| Rev. A           | Initial report | 18-April-2024 | Alieya     |

## 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    | 022TAB0463    |
| 7.1.2   | FCC Part 15.407 / RSS-247 Channel Move Time                 | PASS    | 022TAB0463    |
| 7.1.3   | FCC Part 15.407 / RSS-247 Channel Closing Transmission Time | PASS    | 022TAB0463    |

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         | Stamped Metal | 5180-5500MHz    | 4.6            |
| 1         | Stamped Metal | 5500-5745MHz    | 3.3            |
| 1         | Stamped Metal | 5745-5825MHz    | 3.1            |

### 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         | 5250-5350MHz    | 17.918             | 22.518                                   |
| 1         | 5470-5725MHz    | 17.844             | 21.144                                   |

##### 802.11n (20MHz)

| Antenna # | Frequency Range | Output Power (dBm) | Max EIRP including duty cycle correction |
|-----------|-----------------|--------------------|------------------------------------------|
| 1         | 5250-5350MHz    | 18.211             | 22.811                                   |
| 1         | 5470-5725MHz    | 17.926             | 21.226                                   |

##### 802.11n (40MHz)

| Antenna # | Frequency Range | Output Power (dBm) | Max EIRP including duty cycle correction |
|-----------|-----------------|--------------------|------------------------------------------|
| 1         | 5250-5350MHz    | 17.717             | 22.317                                   |
| 1         | 5470-5725MHz    | 17.915             | 21.215                                   |

##### 802.11ac (80MHz)

| Antenna # | Frequency Range | Output Power (dBm) | Max EIRP including duty cycle correction |
|-----------|-----------------|--------------------|------------------------------------------|
| 1         | 5250-5350MHz    | 8.224              | 12.824                                   |
| 1         | 5470-5725MHz    | 17.775             | 21.075                                   |

### **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 22.811 dBm which is 191.029 mW, 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**

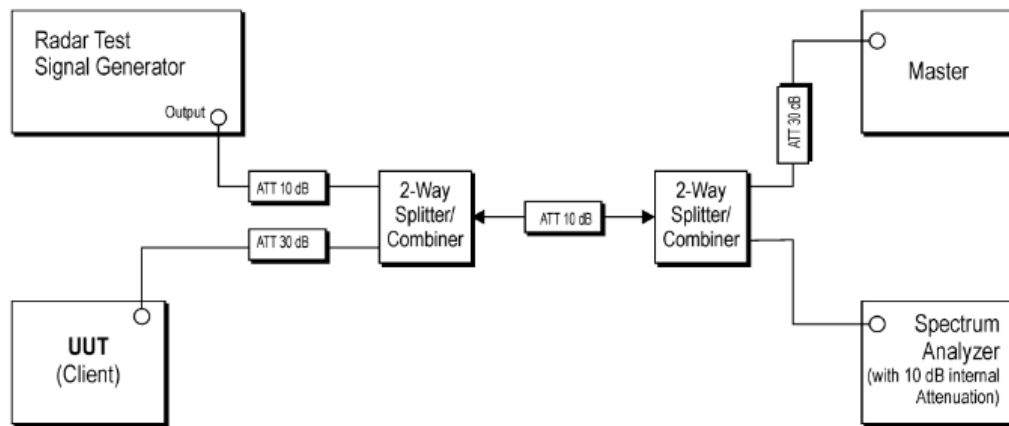
The EUT utilizes IP based system architecture

### **5.9. Master device identification**

The DFS compliant master device used for testing was a Linksys WRT3200ACM with serial number 19810605700081, and FCC ID Q87-WRT3200ACM and IC ID 3839A-WRT3200ACM

## 6. Test setup and list of equipment

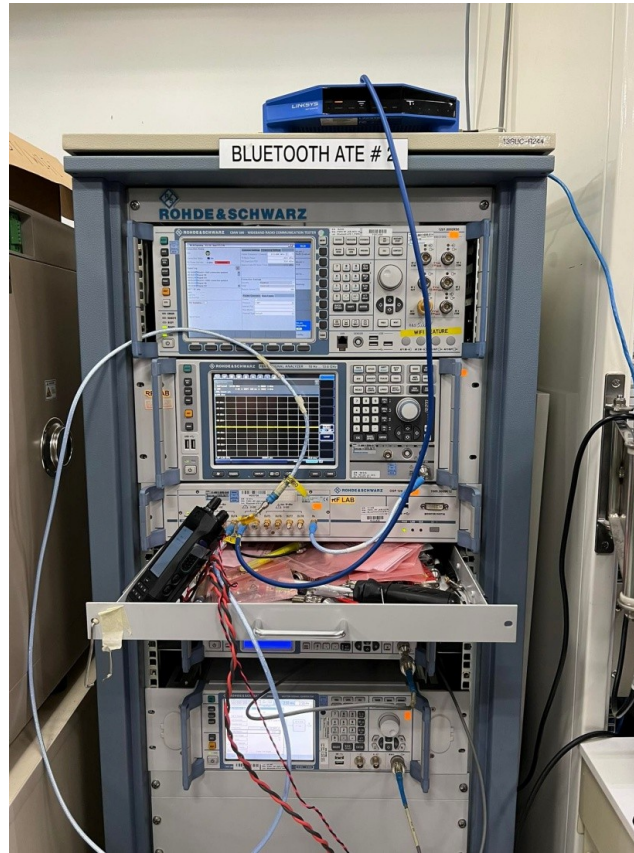
### 6.1. Setup block diagram



### 6.2. List of Equipment

| Description                          | Model #    | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------------------|------------|---------------|------------------|----------------------|
| SIGNAL ANALYZER                      | FSV        | 101515        | 4-Aug-23         | 4-Aug-24             |
| BASIC 8-CHANNEL SWITCH MODULE        | OSP-B157W8 | 101073        | 9-Aug-23         | 9-Aug-24             |
| VECTOR SIGNAL GENERATOR              | SMBV100A   | 261962        | 21-Jul-21        | 21-Jul-24            |
| CHAMBER                              | SH-641     | 92002651      | 13-Feb-24        | 13-Feb-25            |
| SIGNAL GENERATOR                     | SMB100A    | 177677        | 4-Aug-21         | 4-Aug-24             |
| WIDEBAND RADIO COMMUNICATION TESTER  | CMW500     | 154549        | 14-Aug-23        | 14-Aug-24            |
| OPEN SWITCH & CONTROL UNIT           | OSP120     | 101256        | Not required     | Not required         |
| POWER SUPPLY ( 0-20V / 0-30A, 200W ) | 6033A      | 3004A05137    | 1-Aug-23         | 1-Aug-24             |

### 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

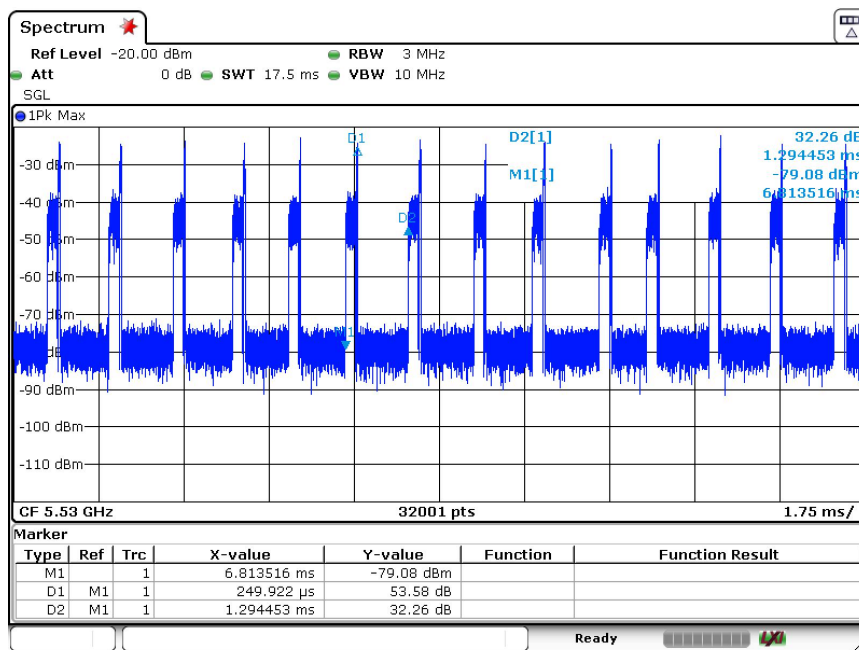
### 8.1. Test Method

DFS testing was performed using the conducted test methods defined in 905462 D02 UNII DFS Compliance Procedures New Rules v02. The device 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 Notes

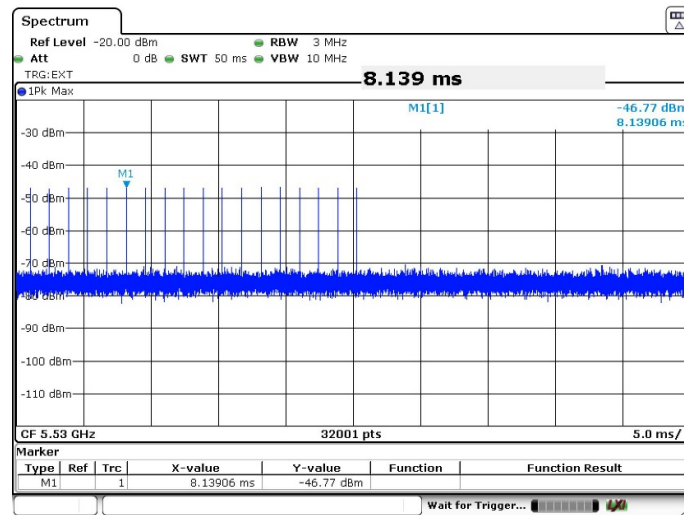
DFS test data is inherited from FCC ID AZ492FT7124 as the subsection is identical to that of this filing.

### 8.3. Test Data



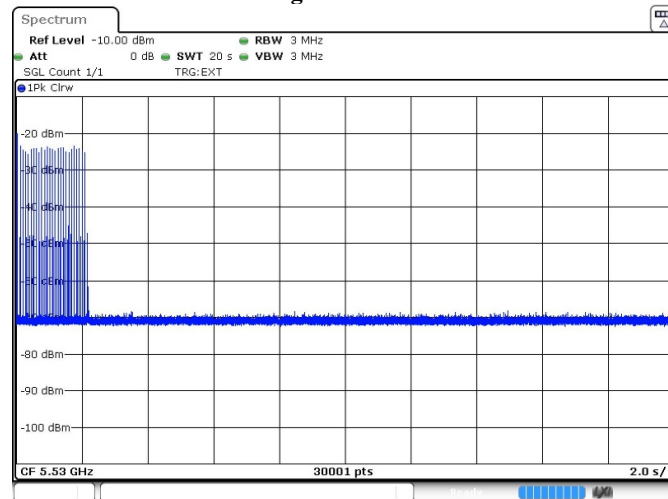
The resulting plot data was extracted and post processed, giving a duty cycle of 19.31%.

### DFS Detection Threshold



Peak of -46.77dBm, with losses at combiners factoring antenna gain to be 15.81dB, therefore level going into antenna port is -62.58dBm which exceeds threshold level of -64dBm for successful detection.

### Channel Move and Closing Time



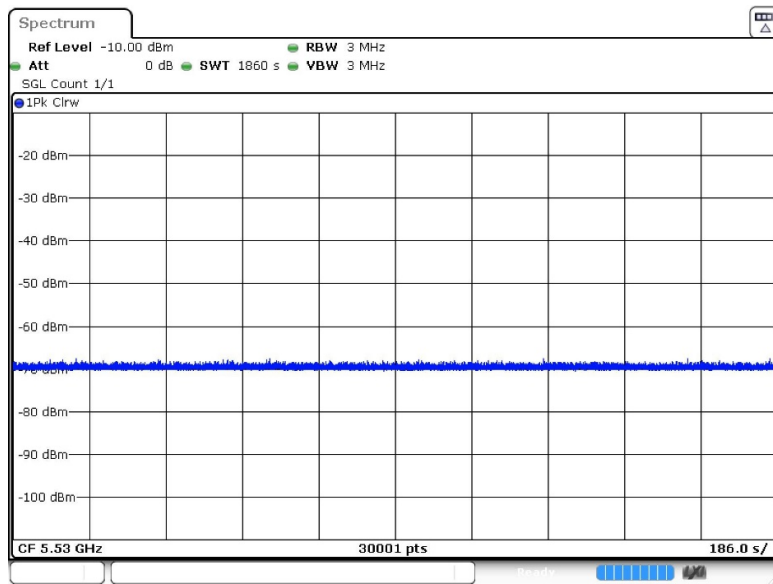
### Channel Closing and Channel Move Time

#### Detailed Results

| DUT Frequency (MHz) | Radar Type No. | Time duration          | No of pulses found | Tx time (ms) | Tx Time Limit (ms) |
|---------------------|----------------|------------------------|--------------------|--------------|--------------------|
| 5530                | 0              | 200ms                  | 11                 | 1.612        | 200                |
| 5530                | 0              | remaining 10.0s period | 89                 | 14.288       | 60                 |

Last transmission after injection of radar is 2.120 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