

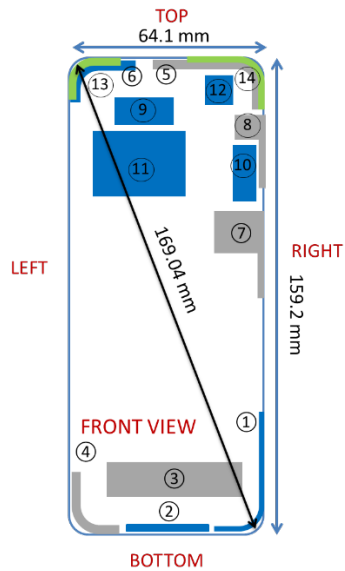


# APPENDIX D: DUT ANTENNA DIAGRAM & TEST SETUP PHOTOGRAPHS

<b>FCC ID:</b> A3LSMF916U	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>NEAR-FIELD POWER DENSITY EVALUATION REPORT</b>		<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/03/2020 – 07/15/2020	<b>DUT Type:</b> Portable Handset			<b>APPENDIX D:</b> Page 1 of 8

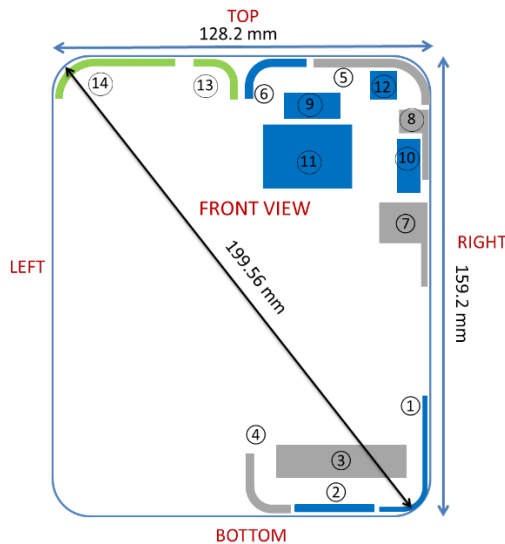


- 1 Main Band Antenna A Tx/Rx**
  - 1. CDMA/EVDO BCO/BC10
  - 2. GSM/GPRS/EDGE 850 MHz
  - 3. UMTS Band V
  - 4. LTE Band 71/12/13/14/5/26
  - 5. NR Band 5/71
  - 6. LTE Band 29 Rx Only
- 2 Main Band Antenna B Tx/Rx**
  - 1. CDMA/EVDO BC1
  - 2. GSM/GPRS/EDGE 1900 MHz
  - 3. UMTS Band II/IV
  - 4. LTE Band 4/66/2/25/30/7/38/41
  - 5. NR Band 66/2/25
  - 6. LTE Band 48 Rx Only (4x4 MIMO)
  - 7. NR Band 41 Rx Only
  - In Switched Condition only
  - 8. CDMA/EVDO BCO
  - 9. GSM/GPRS/EDGE 850 MHz
  - 10. LTE Band 13/14
- 3 Sub Antenna C Rx only**
  - 1. LTE Band 30/38/41 (4X4 MIMO)
  - 2. NR Band 41 (4X4 MIMO)
- 4 Sub Antenna D Rx Only**
  - 1. LTE Band 4/66/2/25 (4X4 MIMO)
  - 2. NR Band 66/2/25 (4X4 MIMO)
- 5 Sub Antenna E Rx Only**
  - 1. CDMA/EVDO BCO/10
  - 2. GSM/GPRS/EDGE 850 MHz
  - 3. UMTS Band V
  - 4. LTE Band 71/12/13/14/5/26
  - 5. LTE Band 66/4/2/25/30/38/41 (4X4 MIMO)
  - 6. NR Band 5/71
  - 7. NR Band 66/2/25/41 (4X4 MIMO)
  - 8. LTE Band 29 Rx Only
- 6 Main Band Antenna F Tx/Rx**
  - 1. LTE Band 48
  - 2. NR Band 41
  - 3. CDMA/EVDO BC1 Rx Only
  - 4. GSM/GPRS/EDGE 1900 MHz Rx Only
  - 5. UMTS Band II/IV Rx Only
  - 6. LTE Band 4/66/2/25/30/7/38/41 Rx Only
  - 7. NR Band 66/2/25 Rx Only
  - 8. GPS L1
  - 9. LTE Band 46 (LAA) Rx Only
- 7 Sub Antenna G Rx Only**
  - 1. LTE Band 48
  - 2. LTE Band 46 (LAA)
- 8 Sub Antenna H Rx Only**
  - 1. LTE Band 48 (4X4 MIMO)
  - 2. GPS L5
- 9 Antenna J Tx/Rx**
  - 1. NR mmWn260/n261
- 10 Antenna K Tx/Rx**
  - 1. NR mmWn260/n261 Tx/Rx
- 11 Antenna UWB 1 Tx/Rx**
  - 1. UWB AOA
- 12 Antenna UWB 2 Tx/Rx**
  - 1. UWB Ranging
- 13 Antenna WIFI/BT 1 Tx/Rx**
  - 1. 2.45 GHz WiFi Antenna 1
  - 2. 5 GHz WiFi Antenna 1
  - 3. 2.45 GHz Bluetooth Antenna 1
- 14 Antenna WIFI/BT 2 Tx/Rx**
  - 1. 2.45 GHz WiFi Antenna 2
  - 2. 5 GHz WiFi Antenna 2
  - 3. 2.45 GHz Bluetooth Antenna 2

**Figure D-1**

**DUT Antenna Locations - Closed**

Note: Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC Filing.





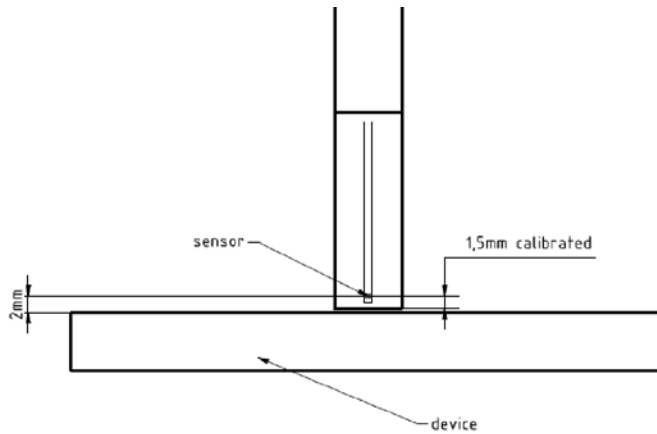
- 1 Main Band Antenna A Tx/Rx**
  - 1. CDMA/EVDO BCO/BC10
  - 2. GSM/GPRS/EDGE 850 MHz
  - 3. UMTS Band V
  - 4. LTE Band 71/12/13/14/5/26
  - 5. NR Band 5/71
  - 6. LTE Band 29 Rx Only
- 2 Main Band Antenna B Tx/Rx**
  - 1. CDMA/EVDO BC1
  - 2. GSM/GPRS/EDGE 1900 MHz
  - 3. UMTS Band II/IV
  - 4. LTE Band 4/66/2/25/30/7/38/41
  - 5. NR Band 66/2/25
  - 6. LTE Band 48 Rx Only (4x4 MIMO)
  - 7. NR Band 41 Rx Only
  - In Switched Condition only
  - 8. CDMA/EVDO BCO
  - 9. LTE Band 13/14
- 3 Sub Antenna C Rx only**
  - 1. LTE Band 30/38/41 (4X4 MIMO)
  - 2. NR Band 41 (4X4 MIMO)
- 4 Sub Antenna D Rx Only**
  - 1. LTE Band 4/66/2/25 (4X4 MIMO)
  - 2. NR Band 66/2/25 (4X4 MIMO)
- 5 Sub Antenna E Rx Only**
  - 1. CDMA/EVDO BCO/10
  - 2. GSM/GPRS/EDGE 850 MHz
  - 3. UMTS Band V
  - 4. LTE Band 71/12/13/14/5/26
  - 5. LTE Band 66/4/2/25/30/38/41 (4X4 MIMO)
  - 6. NR Band 5/71
  - 7. NR Band 66/2/25/41 (4X4 MIMO)
  - 8. LTE Band 29 Rx Only
- 6 Main Band Antenna F Tx/Rx**
  - 1. LTE Band 48
  - 2. NR Band 41
  - 3. CDMA/EVDO BC1 Rx Only
  - 4. GSM/GPRS/EDGE 1900 MHz Rx Only
  - 5. UMTS Band II/IV Rx Only
  - 6. LTE Band 4/66/2/25/30/7/38/41 Rx Only
  - 7. NR Band 66/2/25 Rx Only
  - 8. GPS L1
  - 9. LTE Band 46 (LAA) Rx Only
- 7 Sub Antenna G Rx Only**
  - 1. LTE Band 48
  - 2. LTE Band 46 (LAA)
- 8 Sub Antenna H Rx Only**
  - 1. LTE Band 48 (4X4 MIMO)
  - 2. GPS L5
- 9 Antenna J Tx/Rx**
  - 1. NR mmWn260/n261
- 10 Antenna K Tx/Rx**
  - 1. NR mmWn260/n261 Tx/Rx
- 11 Antenna UWB 1 Tx/Rx**
  - 1. UWB AOA
- 12 Antenna UWB 2 Tx/Rx**
  - 1. UWB Ranging
- 13 Antenna WIFI/BT 1 Tx/Rx**
  - 1. 2.45 GHz WiFi Antenna 1
  - 2. 5 GHz WiFi Antenna 1
  - 3. 2.45 GHz Bluetooth Antenna 1
- 14 Antenna WIFI/BT 2 Tx/Rx**
  - 1. 2.45 GHz WiFi Antenna 2
  - 2. 5 GHz WiFi Antenna 2
  - 3. 2.45 GHz Bluetooth Antenna 2

**Figure D-2**

**DUT Antenna Locations - Open**



Note: Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC Filing.

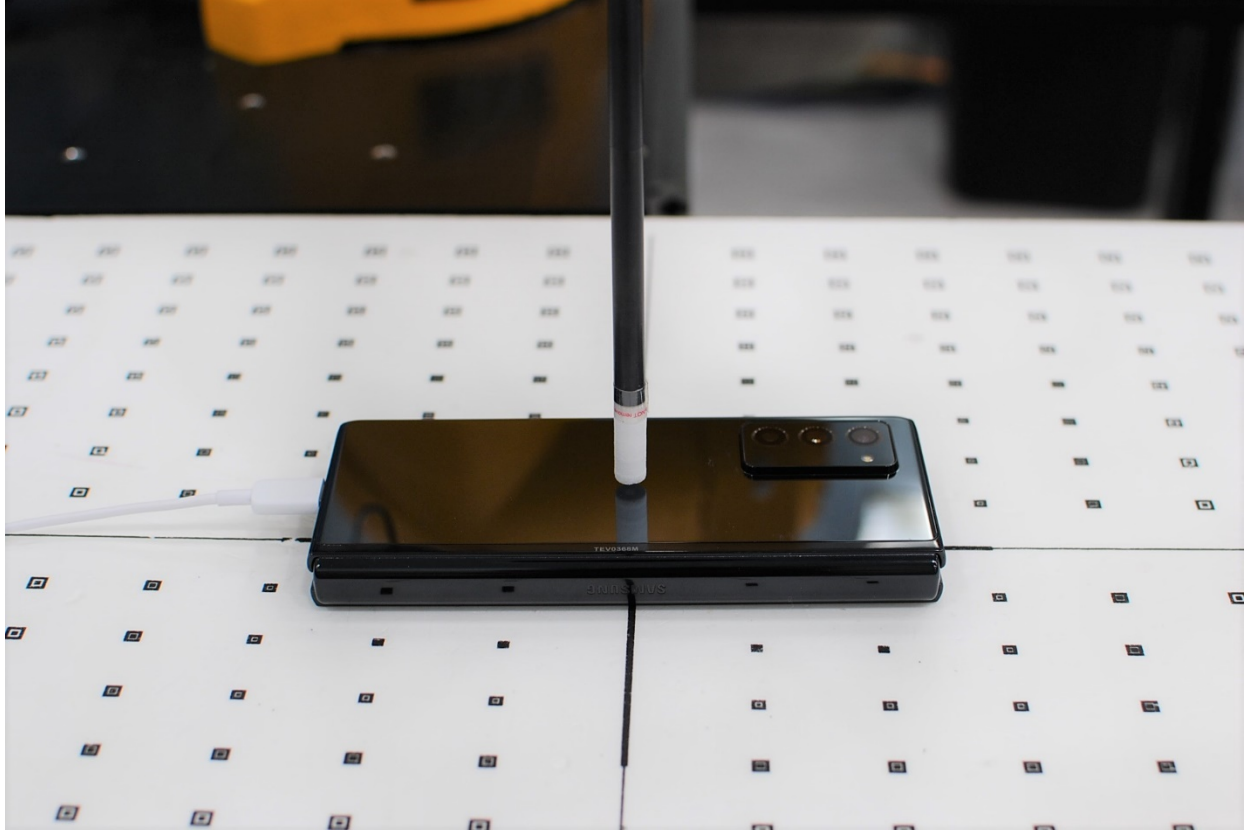
<p>FCC ID: A3LSMF916U</p>	 <p><b>PCTEST</b> Proud to be part of element</p>	<p><b>NEAR-FIELD POWER DENSITY EVALUATION REPORT</b></p> 	<p><b>Approved by:</b> Quality Manager</p>
<p><b>Test Dates:</b> 07/03/2020 – 07/15/2020</p>	<p><b>DUT Type:</b> Portable Handset</p>	<p><b>APPENDIX D:</b> Page 2 of 8</p>	





**Figure D-3**  
**EUmWV3 Probe**

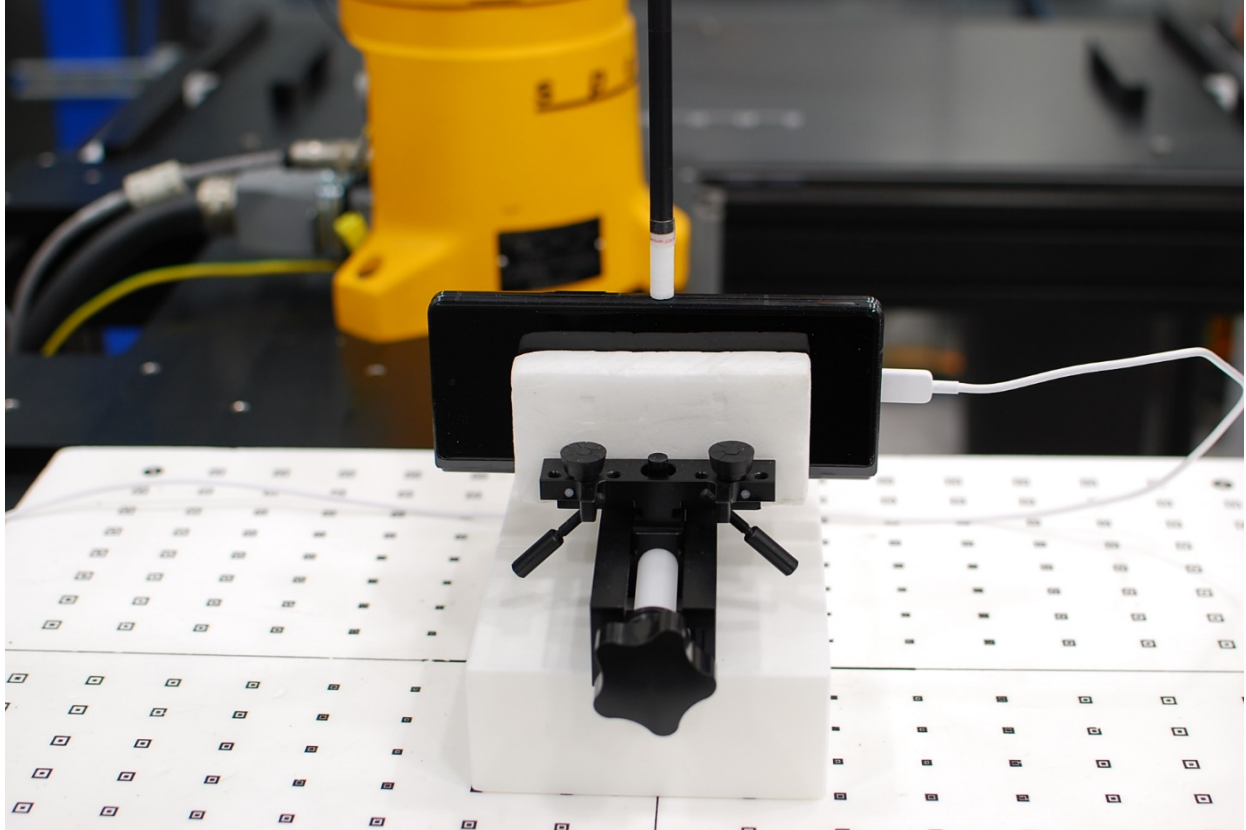
Note: Distances below are distance from device surface to sensor-center. Therefore, distances include 1.5 mm for Probe Tip to Sensor Calibration Points.

<p>FCC ID: A3LSMF916U</p>	 <p><b>PCTEST</b> Proud to be part of element</p>	<p>NEAR-FIELD POWER DENSITY EVALUATION REPORT</p>		<p>Approved by: Quality Manager</p>
<p>Test Dates: 07/03/2020 – 07/15/2020</p>	<p>DUT Type: Portable Handset</p>	<p>APPENDIX D: Page 3 of 8</p>		





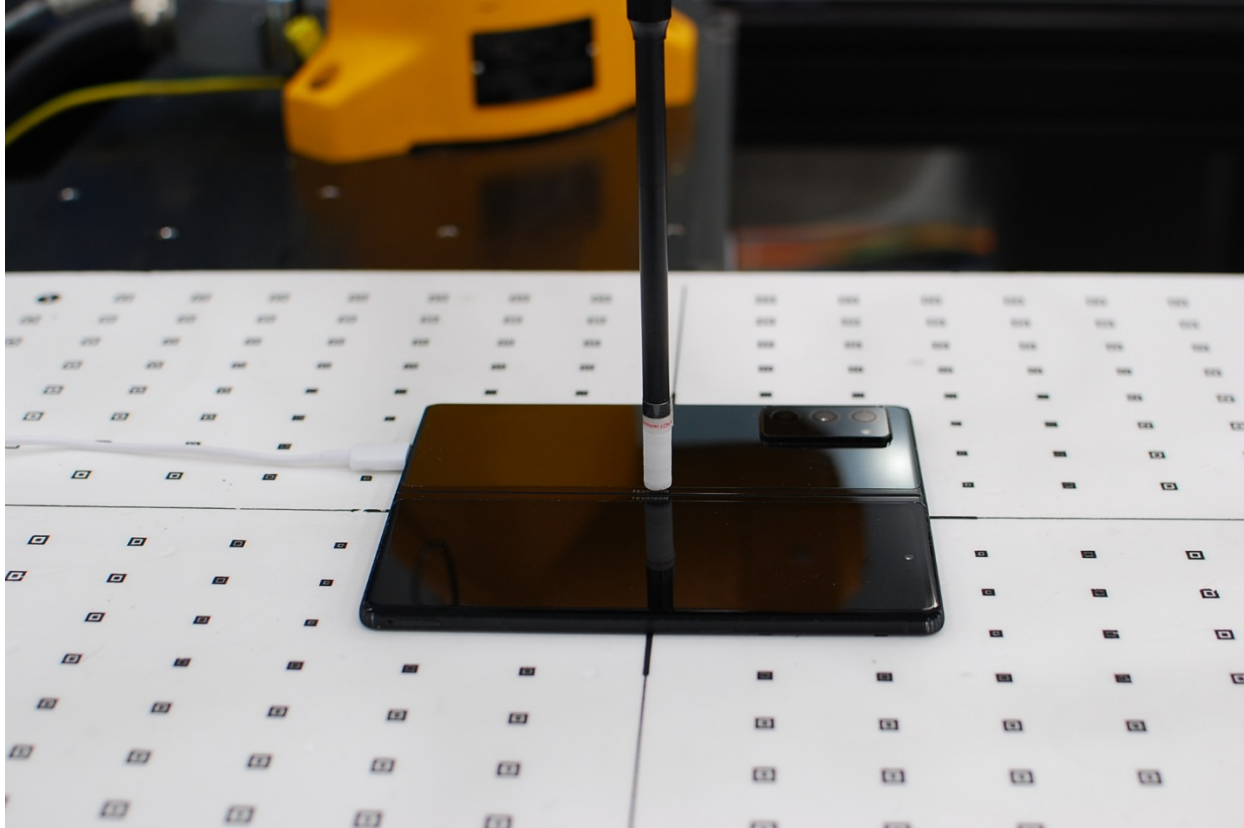
**Figure D-4  
Near Field Power Density Test Setup Photo – Back Side Closed at 2 mm**

<b>FCC ID:</b> A3LSMF916U	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>NEAR-FIELD POWER DENSITY EVALUATION REPORT</b>	 <b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/03/2020 – 07/15/2020	<b>DUT Type:</b> Portable Handset	<b>APPENDIX D:</b> Page 4 of 8	





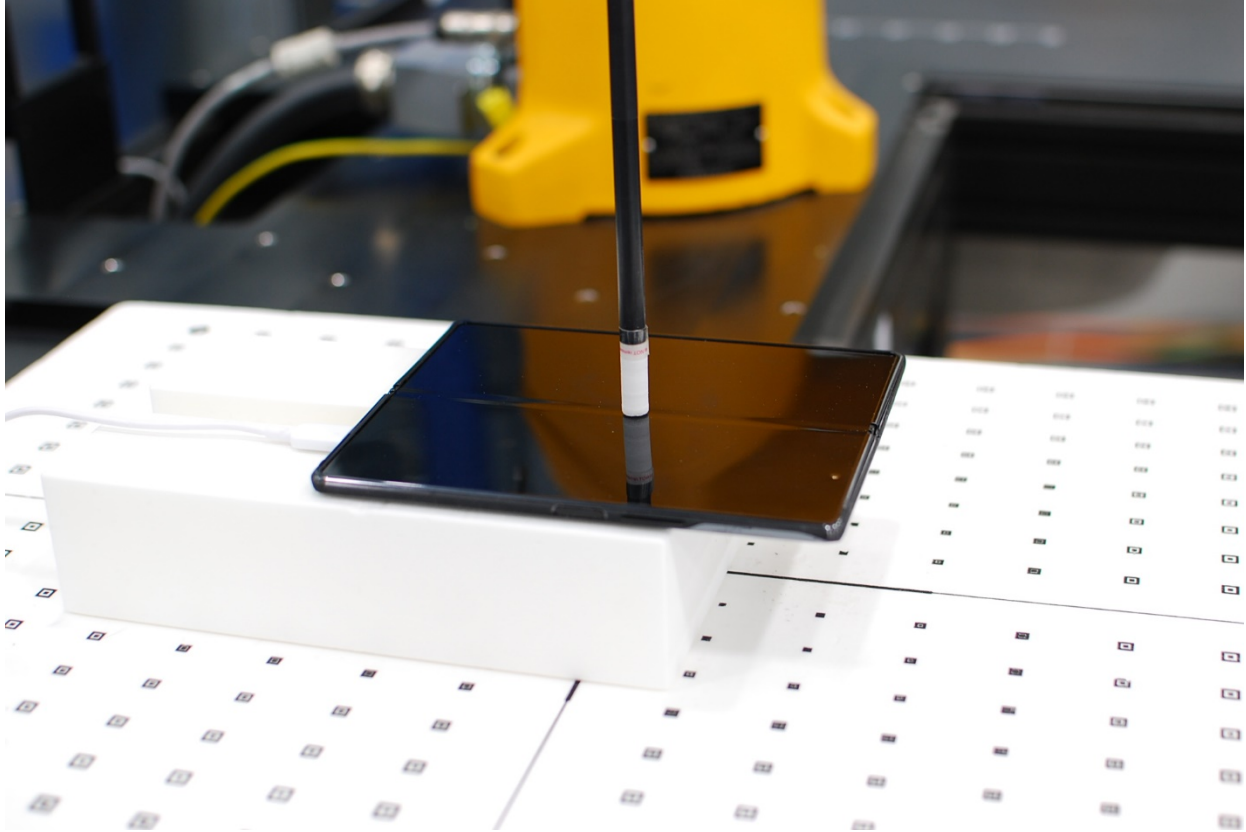
**Figure D-5**  
**Near Field Power Density Test Setup Photo – Right Edge Closed at 2 mm**

<b>FCC ID:</b> A3LSMF916U	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>NEAR-FIELD POWER DENSITY          EVALUATION REPORT</b>		<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/03/2020 – 07/15/2020	<b>DUT Type:</b> Portable Handset	<b>APPENDIX D:</b> Page 5 of 8		





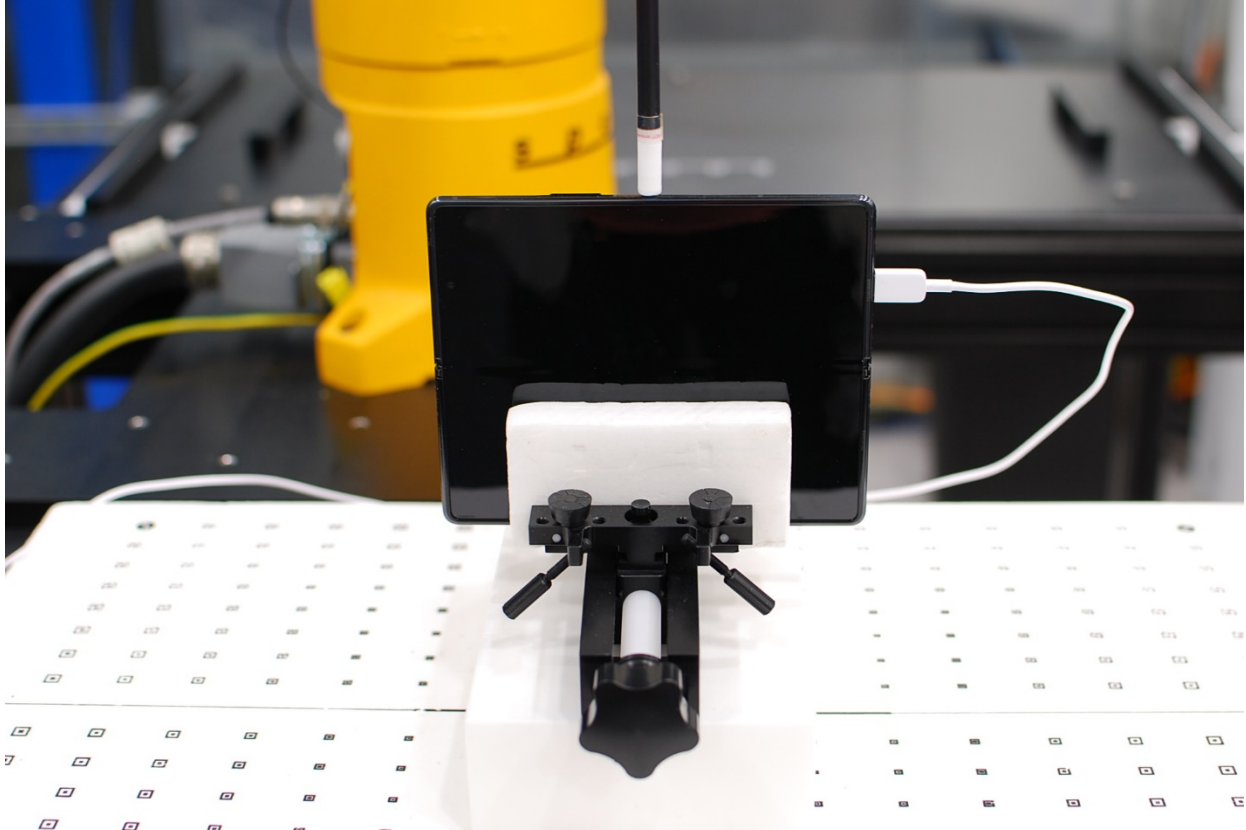
**Figure D-6  
Near Field Power Density Test Setup Photo – Back Side Open at 2 mm**

<b>FCC ID:</b> A3LSMF916U		<b>NEAR-FIELD POWER DENSITY EVALUATION REPORT</b>		<b>Approved by:</b> Quality Manager
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**Figure D-7  
Near Field Power Density Test Setup Photo – Front Side Open at 2 mm**

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<b>Test Dates:</b> 07/03/2020 – 07/15/2020	<b>DUT Type:</b> Portable Handset	<b>APPENDIX D:</b> Page 7 of 8		



**Figure D-8**  
**Near Field Power Density Test Setup Photo – Right Edge Open at 2 mm**

<b>FCC ID:</b> A3LSMF916U	 <b>PCTEST</b> <small>Proud to be part of element</small>	<b>NEAR-FIELD POWER DENSITY          EVALUATION REPORT</b>		<b>Approved by:</b> Quality Manager
<b>Test Dates:</b> 07/03/2020 – 07/15/2020	<b>DUT Type:</b> Portable Handset	<b>APPENDIX D:</b> Page 8 of 8		