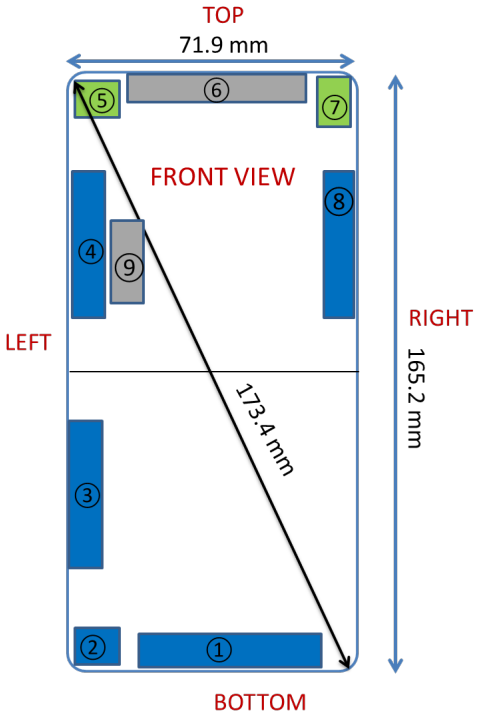
APPENDIX E: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS



① Main Band Antenna I Tx/Rx (Ant A)
1. GSM/GPRS/EDGE 850/1900
2. UMTS Band II/IV/V
3. LTE Band 2/4/5/12/13/14/25/26/66/71
4. NR Band n2/5/12/25/66/71
5. LTE Band 29 Rx Only

② Main Band Antenna II Tx/Rx (Ant B)
1. LTE Band 7/38/30/41
2. NR Band n7/30
3. NR Band n41 (SRS #2)
4. NR Band n38/41 Rx Only

③ Main Band Antenna III Tx/Rx (Ant C)
1. NR Band n41/48/77 (SRS #4)
2. LTE Band 2/4/25/30/41/66 MIMO Rx Only
3. NR Band n2/25/30/66 MIMO Rx Only
4. LTE Band 48 Rx Only MIMO
5. NR Band n41/48/77 Rx Only MIMO

④ Sub Antenna I Tx/Rx (Ant E)
1. NR Band n48/77 (SRS #3))
2. GSM/GPRS/EDGE 850 Rx Only
3. UMTS Band V Rx Only
4. LTE Band 5/12/13/14/26/29/71 Rx Only
5. NR Band n5/12/71 Rx Only
6. LTE Band 48 MIMO Rx Only
7. NR Band n48/77 MIMO Rx Only

⑤ Sub Antenna II Tx/Rx (Ant F)
1. LTE Band 48
2. NR Band n41/48/77 (SRS #1)
3. 2.4 GHz WIFI Ant 1, BT Ant 1, 5 GHz WIFI Ant 1
4. LTE Band 30/41 RX only MIMO
5. NR Band 30/41 RX only MIMO
6. LAA Rx Only

⑥ Sub Antenna III Rx (Ant G)
1. LTE Band 2/4/25/66 MIMO
2. NR Band n2/25/66 MIMO

⑦ Sub Antenna IV Tx/Rx (Ant H)
1. LAA Only Rx
2. 2.4 GHz WIFI Ant 2, BT Ant 2, 5 GHz WIFI Ant 2
3. GPS

⑧ Sub Antenna V Tx/Rx (Ant I)
1. NR Band n2/25/30/38/41/66
2. NR Band n48/77 (SRS #2)
3. NR Band n2/7/25/30/48/66/77 Rx Only
4. LTE B2/4/7/25/30/38/41/48/66 Rx Only
5. GSM/GPRS/EDGE 1900 Rx Only
6. UMTS Band II/IV Rx Only

⑨ (Ant K) NR mmW n258/260/261 Tx/Rx

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

Figure E-1
DUT Antenna Locations

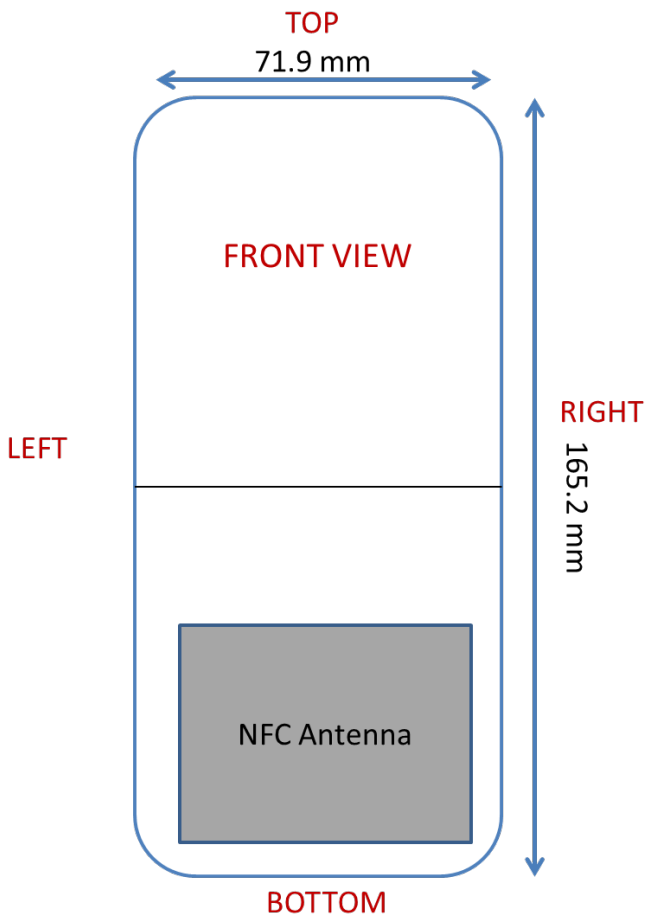
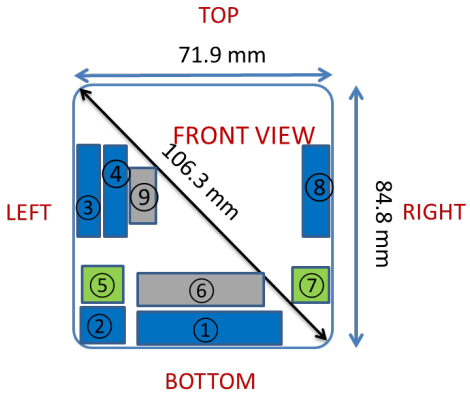


Figure E-2
NFC Antenna Locations



① Main Band Antenna I Tx/Rx (Ant A)
1. GSM/GPRS/EDGE 850/1900
2. UMTS Band II/IV/V
3. LTE Band 2/4/5/12/13/14/25/26/66/71
4. NR Band n2/5/12/25/66/71
5. LTE Band 29 Rx Only

② Main Band Antenna II Tx/Rx (Ant B)
1. LTE Band 7/38/30/41
2. NR Band n7/30
3. NR Band n41 (SRS #2)
4. NR Band n38/41 Rx Only

③ Main Band Antenna III Tx/Rx (Ant C)
1. NR Band n41/48/77 (SRS #4)
2. LTE Band 2/4/25/30/41/66 MIMO Rx Only
3. NR Band n2/25/30/66 MIMO Rx Only
4. LTE Band 48 Rx Only MIMO
5. NR Band n41/48/77 Rx Only MIMO

④ Sub Antenna I Tx/Rx (Ant E)
1. NR Band n48/77 (SRS #3))
2. GSM/GPRS/EDGE 850 Rx Only
3. UMTS Band V Rx Only
4. LTE Band 5/12/13/14/26/29/71 Rx Only
5. NR Band n5/12/71 Rx Only
6. LTE Band 48 MIMO Rx Only
7. NR Band n48/77 MIMO Rx Only

⑤ Sub Antenna II Tx/Rx (Ant F)
1. LTE Band 48
2. NR Band n41/48/77 (SRS #1)
3. 2.4 GHz WIFI Ant 1, BT Ant 1, 5 GHz WIFI Ant 1
4. LTE Band 30/41 RX only MIMO
5. NR Band 30/41 RX only MIMO
6. LAA Rx Only

⑥ Sub Antenna III Rx (Ant G)
1. LTE Band 2/4/25/66 MIMO
2. NR Band n2/25/66 MIMO

⑦ Sub Antenna IV Tx/Rx (Ant H)
1. LAA Only Rx
2. 2.4 GHz WIFI Ant 2, BT Ant 2, 5 GHz WIFI Ant 2
3. GPS

⑧ Sub Antenna V Tx/Rx (Ant I)
1. NR Band n2/25/30/38/41/66
2. NR Band n48/77 (SRS #2)
3. NR Band n2/7/25/30/48/66/77 Rx Only
4. LTE B2/4/7/25/30/38/41/48/66 Rx Only
5. GSM/GPRS/EDGE 1900 Rx Only
6. UMTS Band II/IV Rx Only

⑨ (Ant K) NR mmW n258/260/261 Tx/Rx

Figure E-1
DUT Antenna Locations Closed Configurations

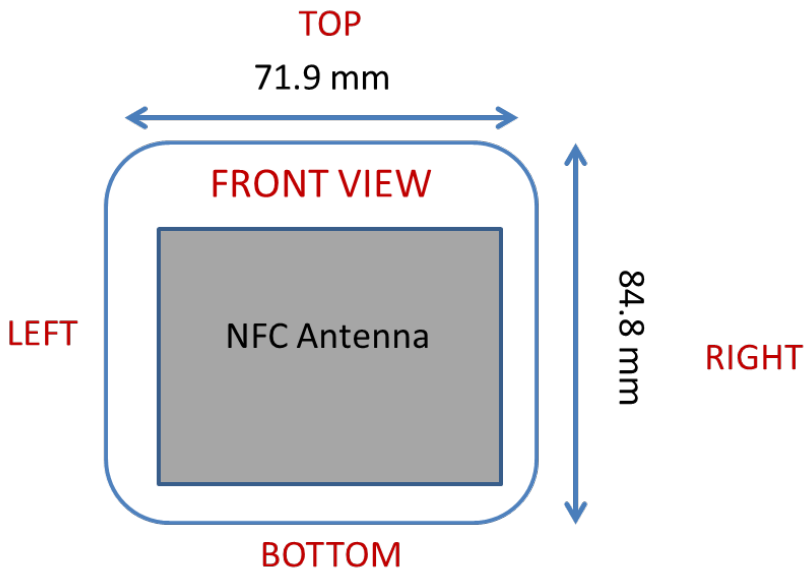
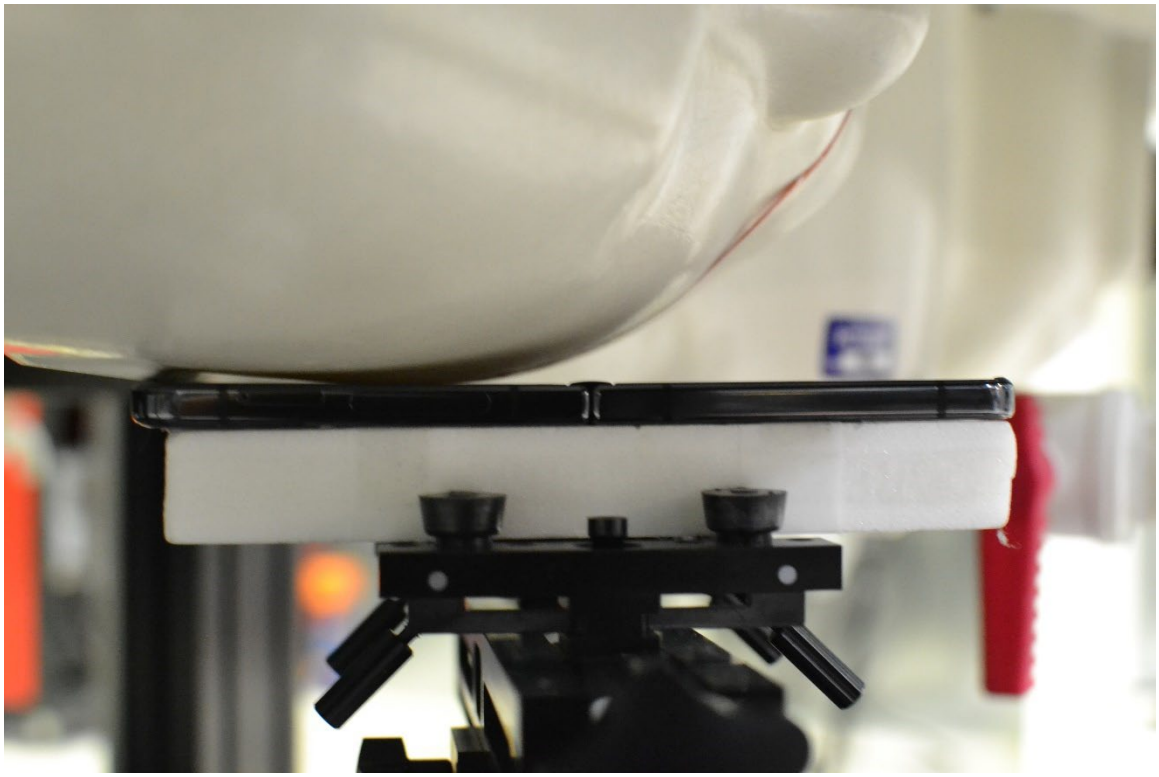
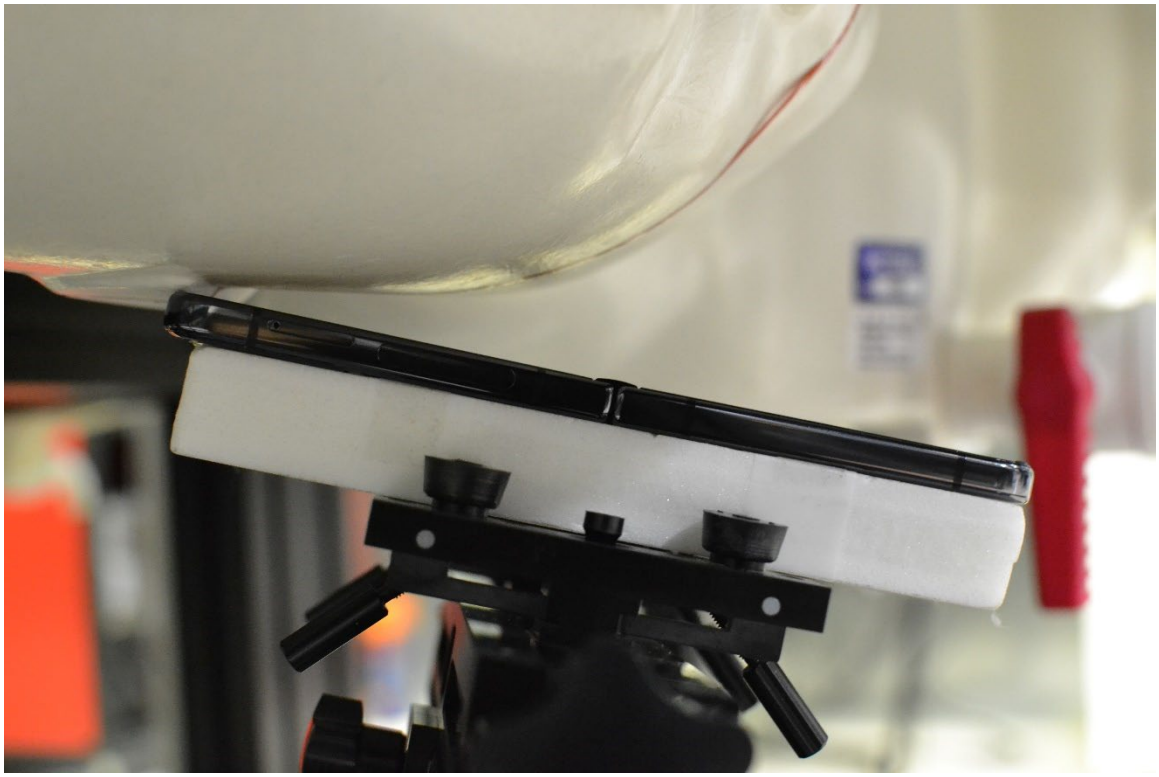


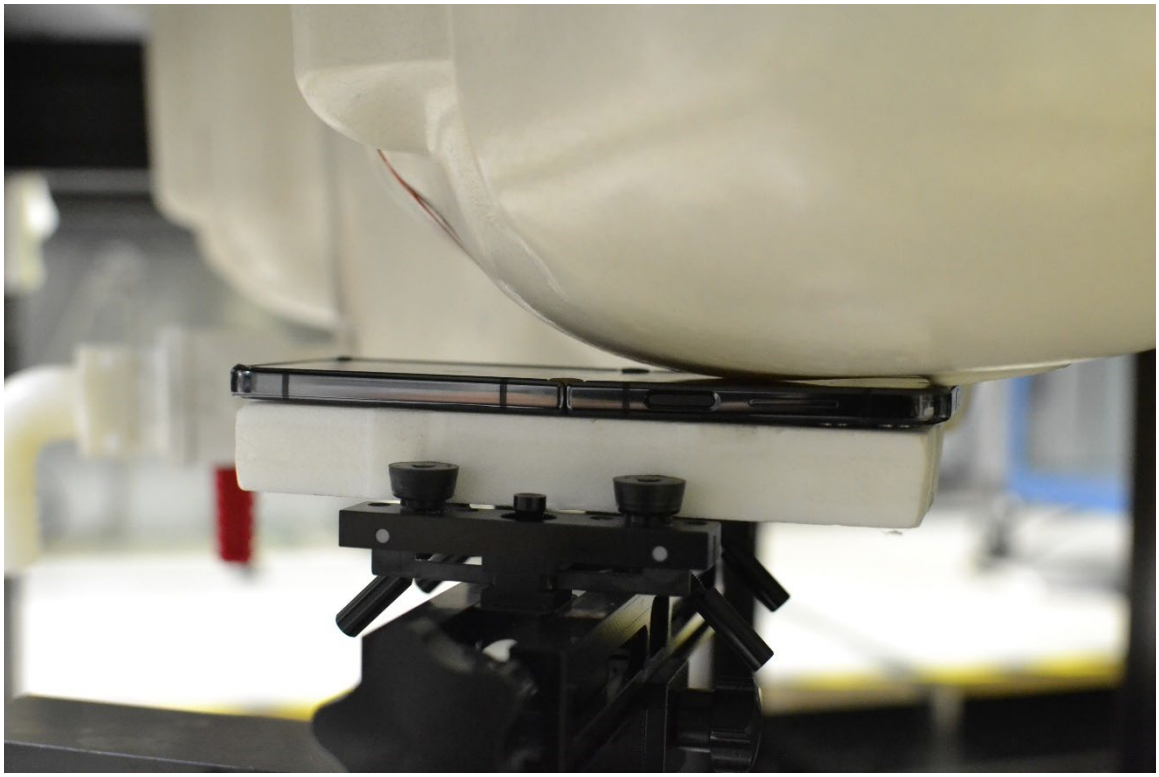
Figure E-2
NFC Antenna Locations



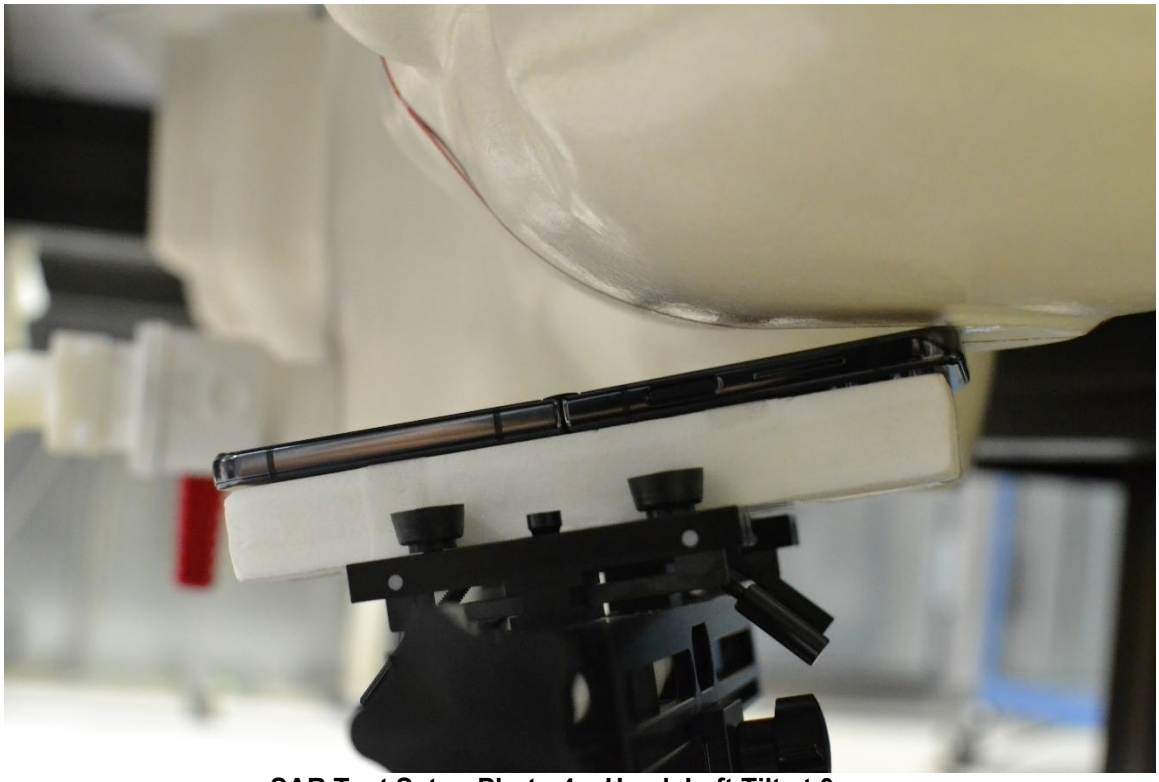
SAR Test Setup Photo 1 – Head, Right Cheek at 0 mm



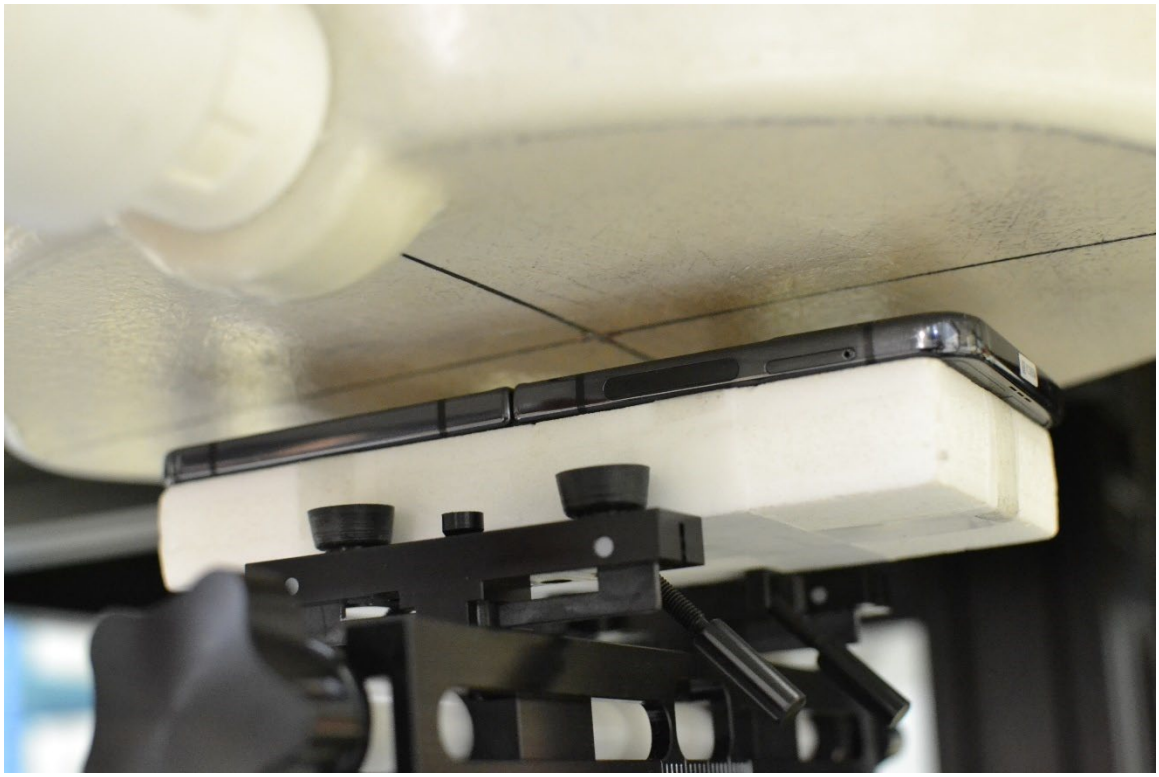
SAR Test Setup Photo 2 – Head, Right Tilt at 0 mm



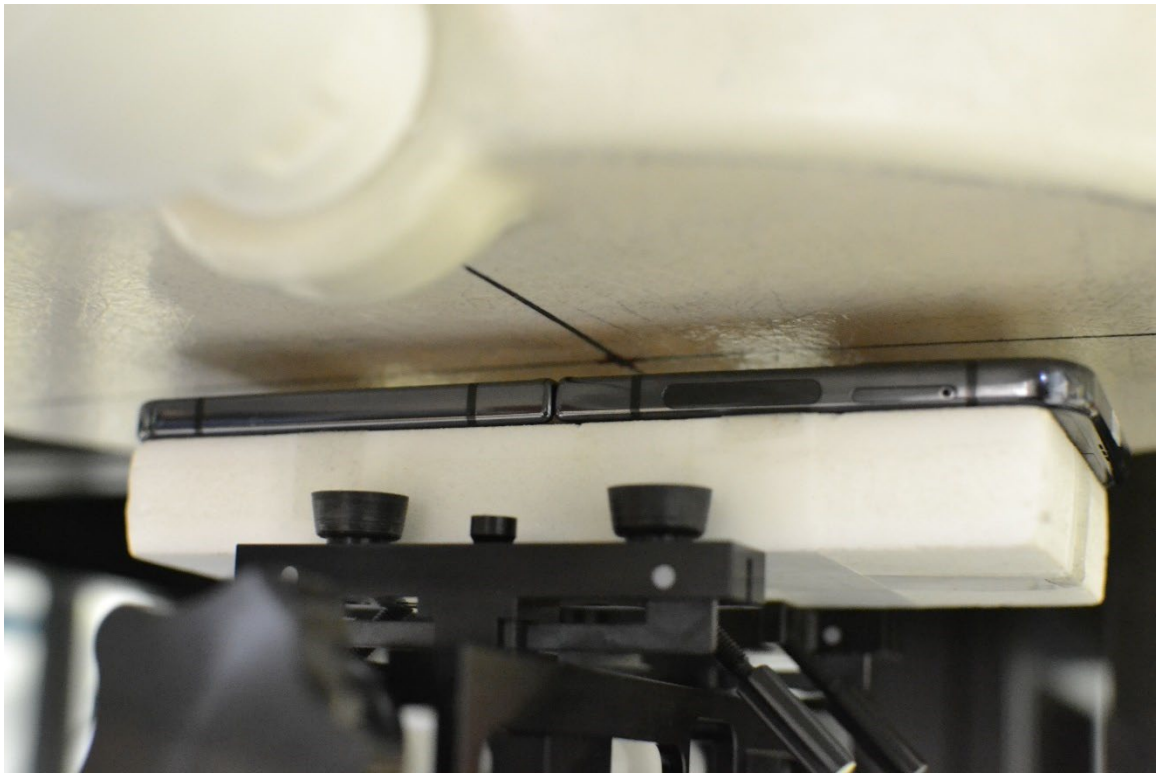
SAR Test Setup Photo 3 – Head, Left Cheek at 0 mm



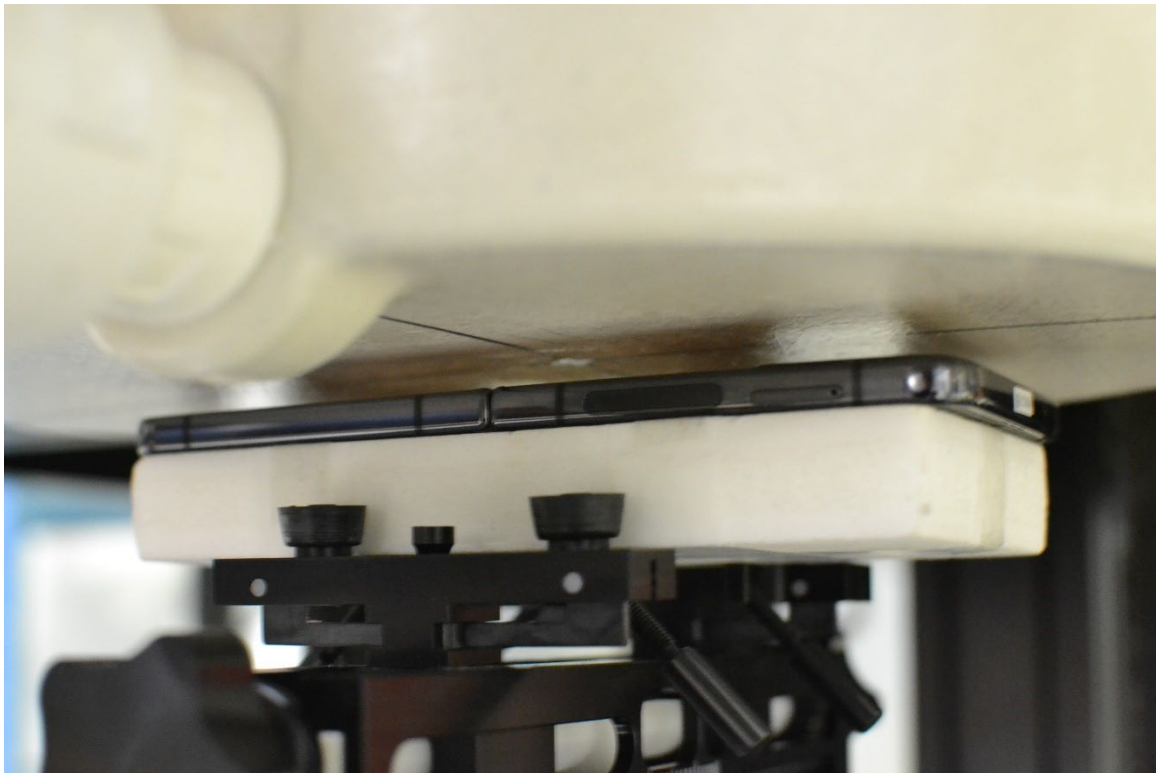
SAR Test Setup Photo 4 – Head, Left Tilt at 0 mm



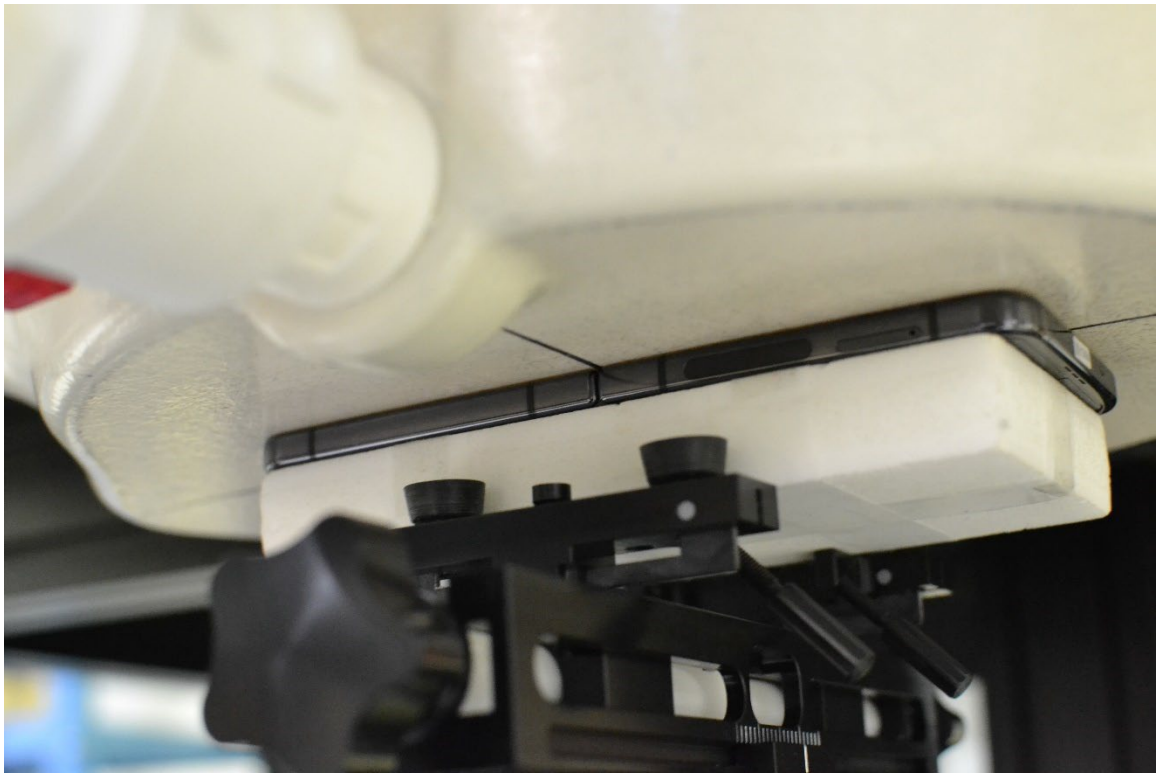
SAR Test Setup Photo 5 – Body-worn, Back Side at 15 mm



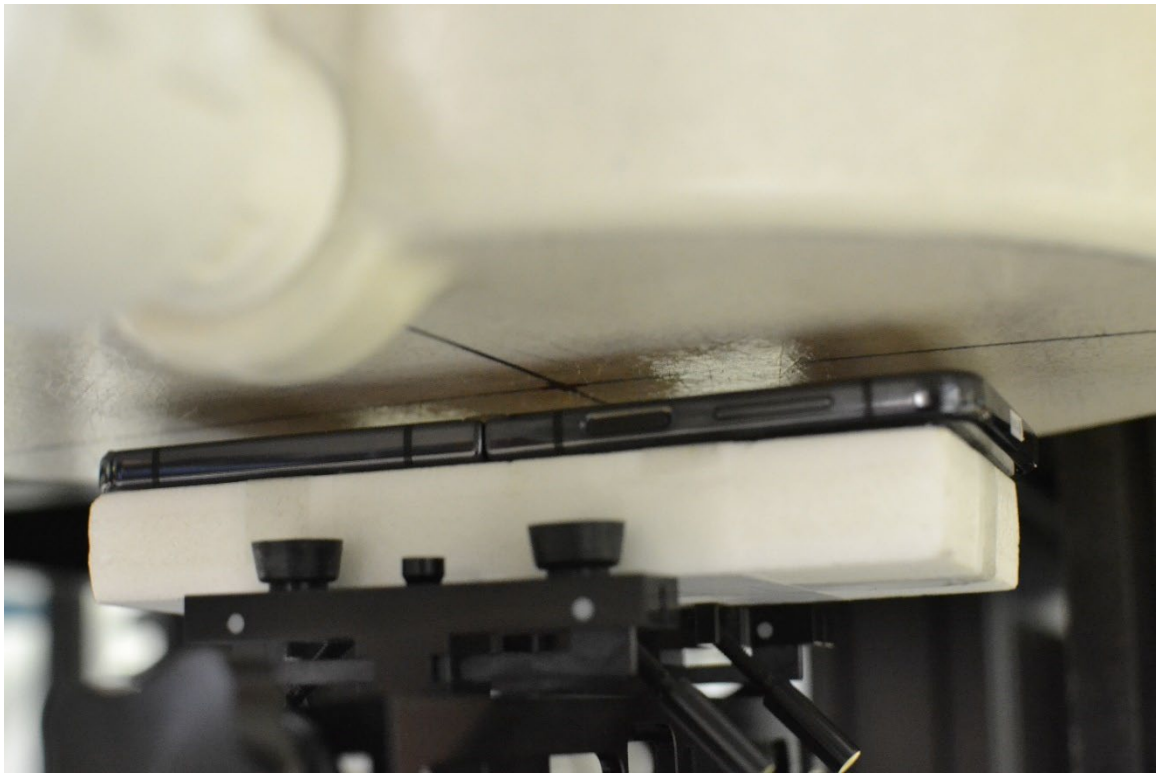
SAR Test Setup Photo 6 – Hotspot, Back Side at 10 mm



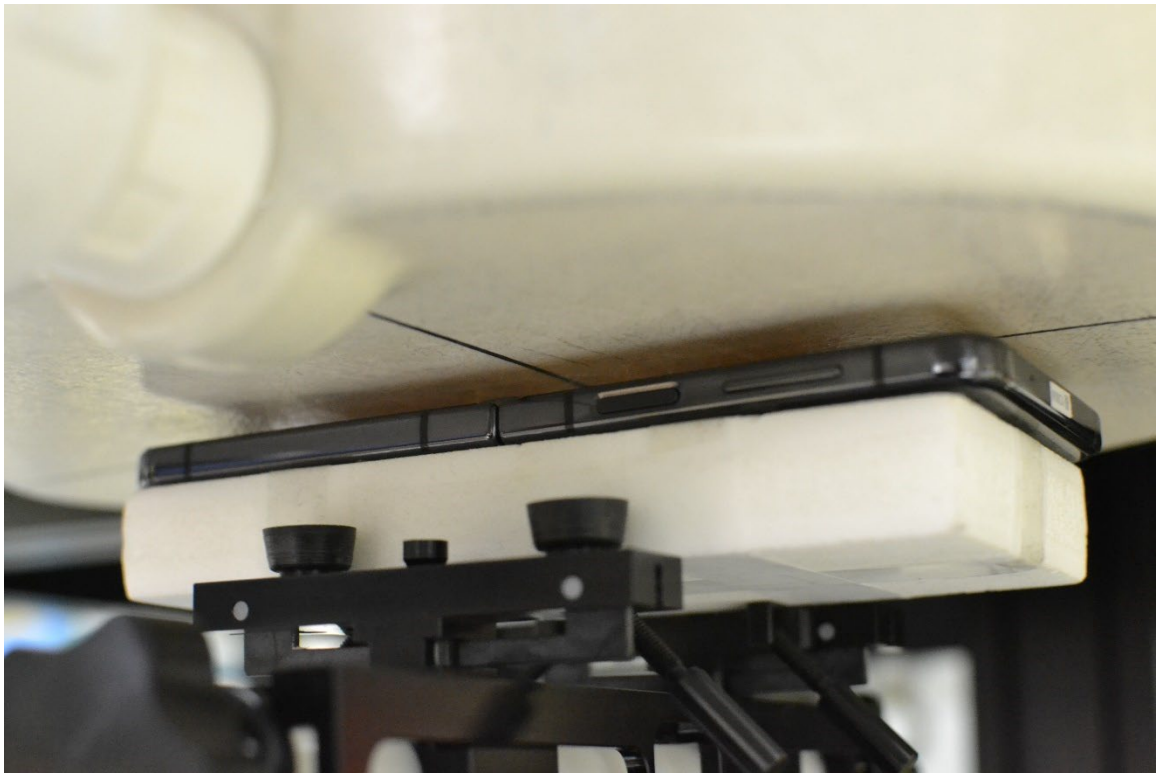
SAR Test Setup Photo 7 – Phablet, Back Side at 8 mm



SAR Test Setup Photo 8 – Phablet, Back Side at 0 mm

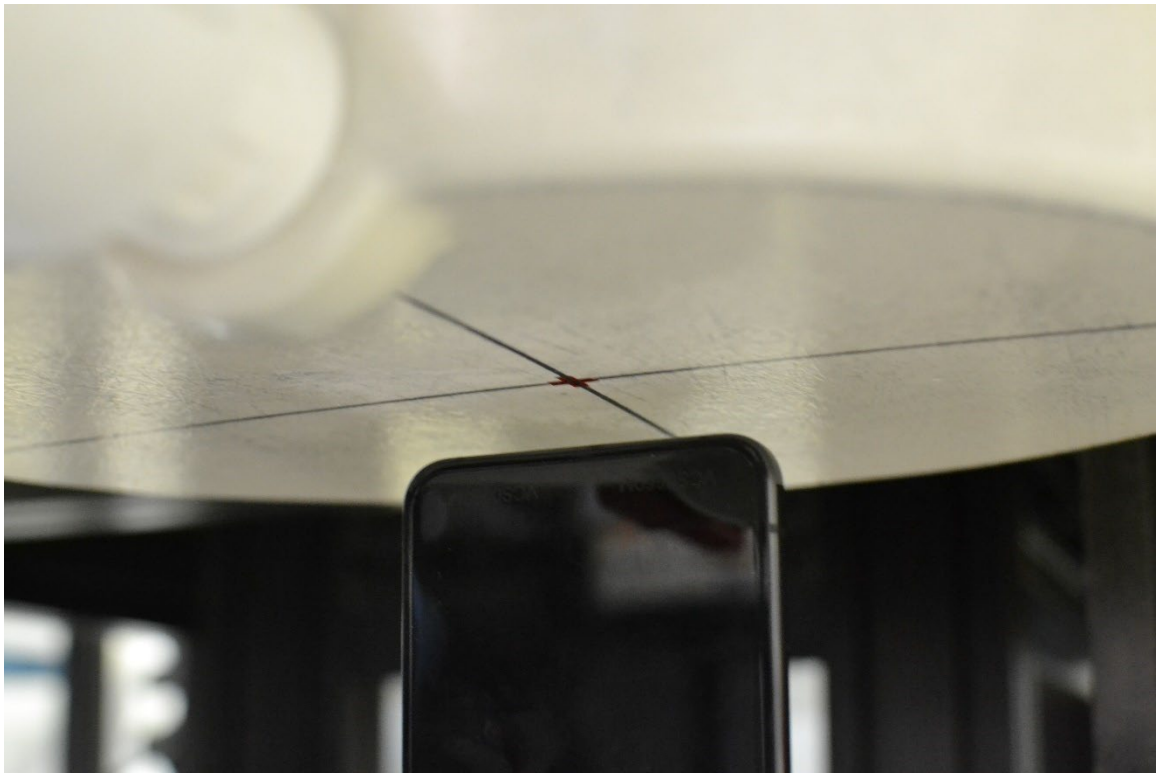


SAR Test Setup Photo 9 – Hotspot, Front Side at 10 mm

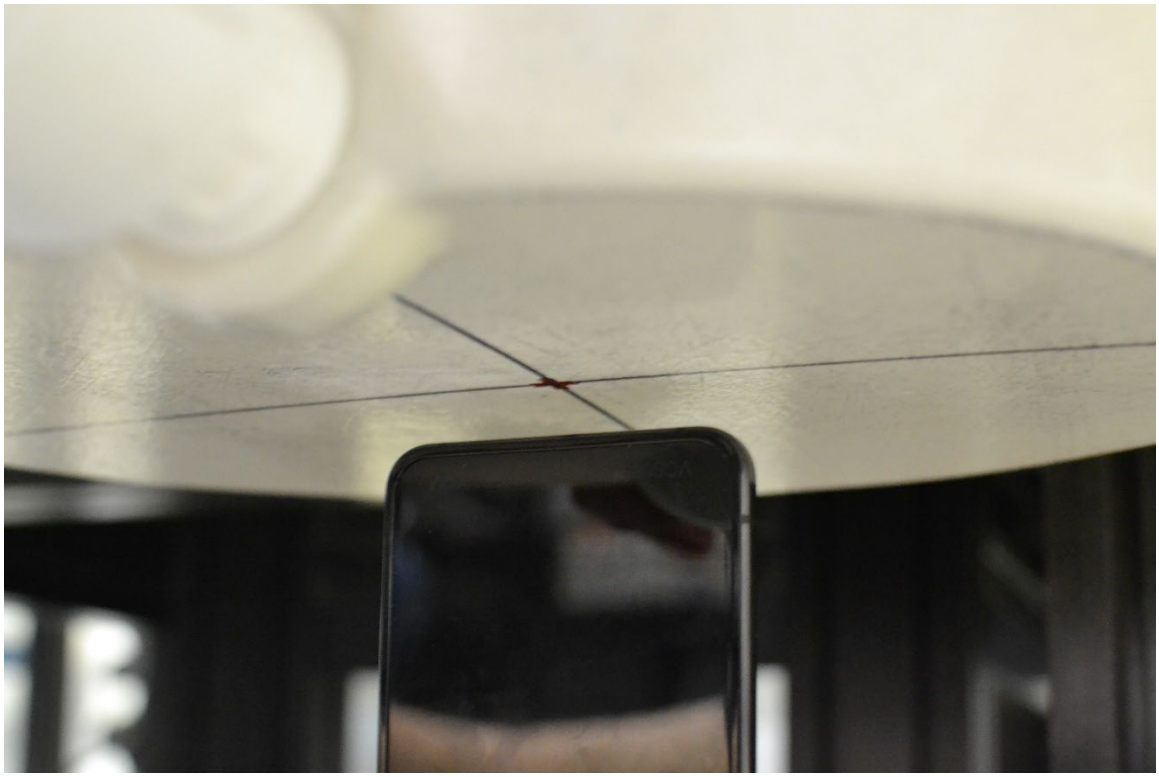


SAR Test Setup Photo 10 – Phablet, Front Side at 6 mm

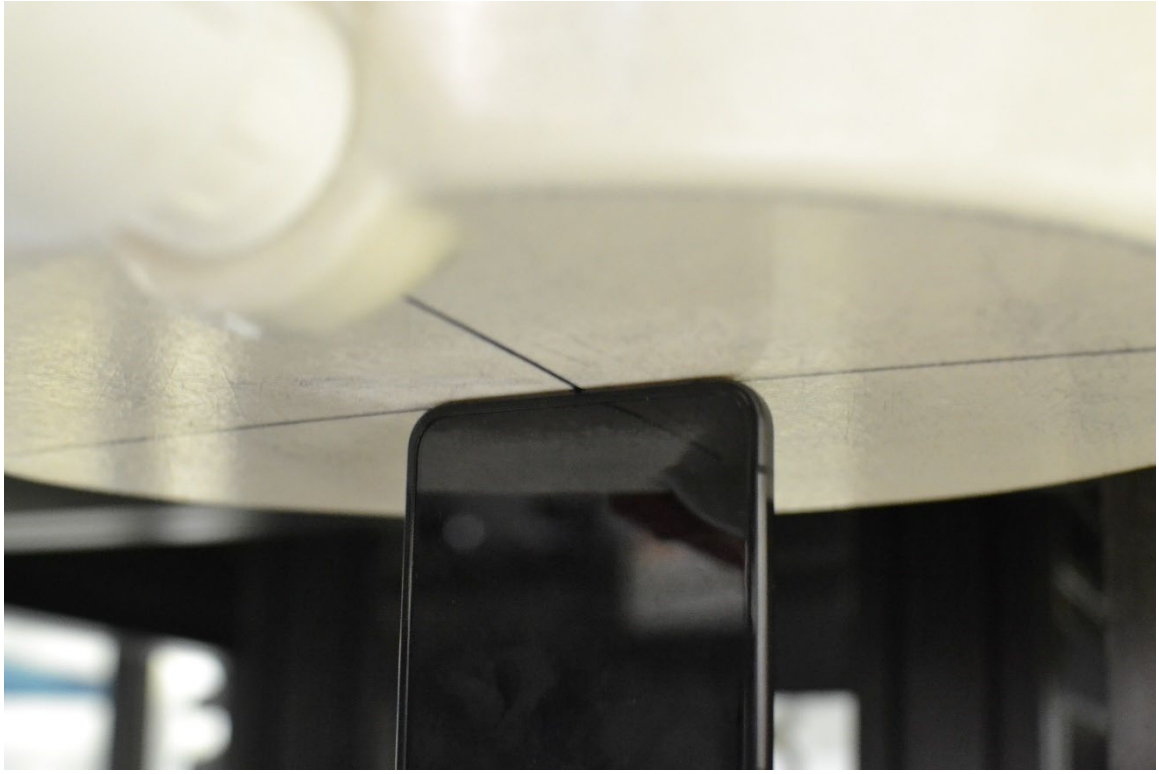
SAR Test Setup Photo 11 – Phablet, Front Side at 0 mm



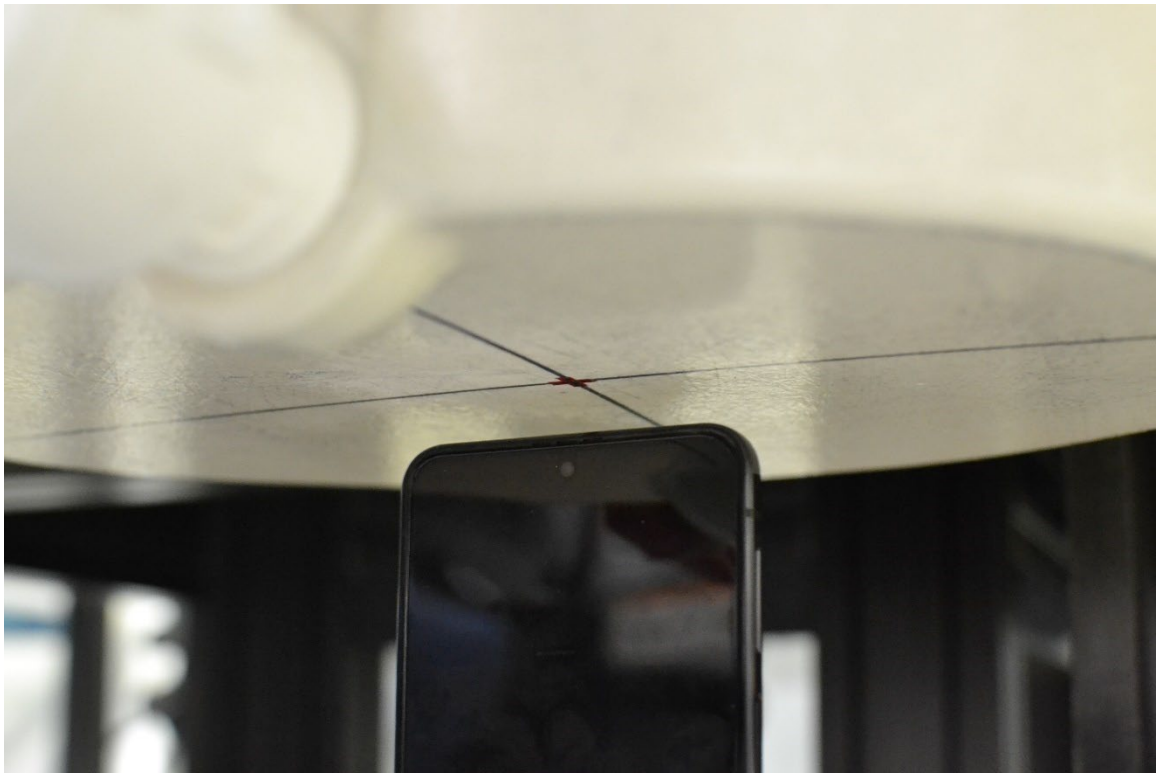
SAR Test Setup Photo 12 – Phablet, Bottom Edge at 12 mm



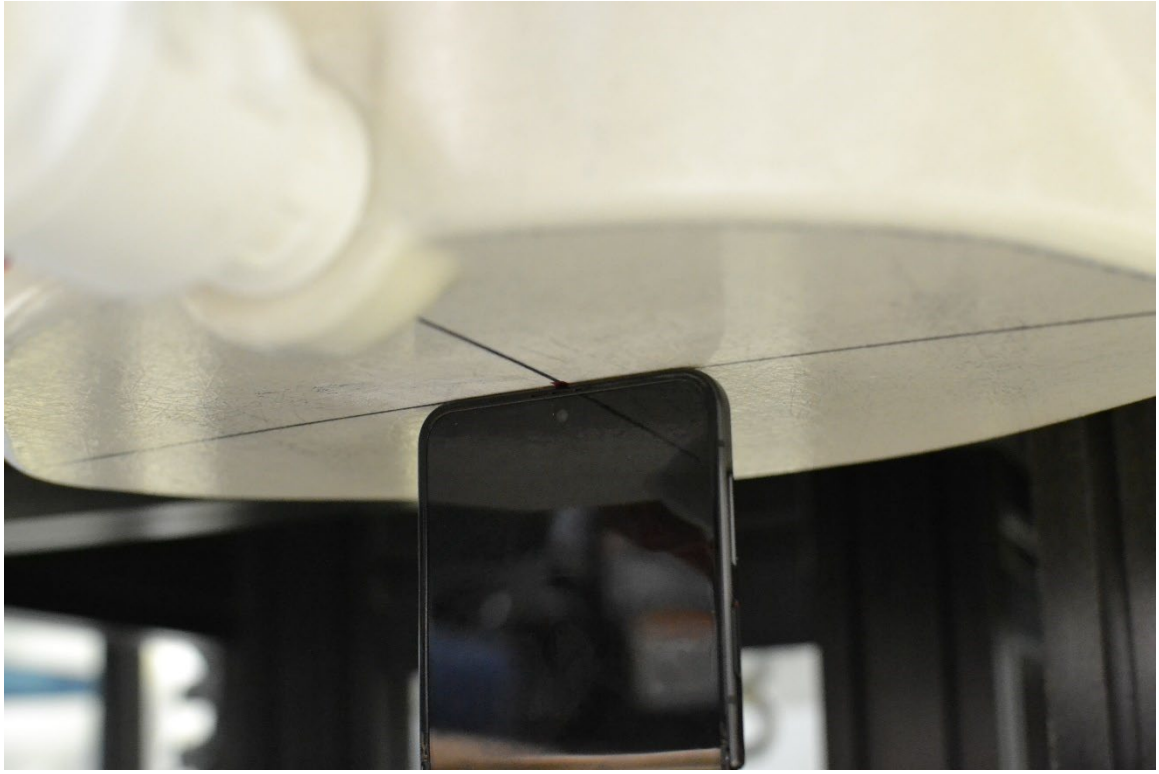
SAR Test Setup Photo 13 – Hotspot, Bottom Edge at 10 mm



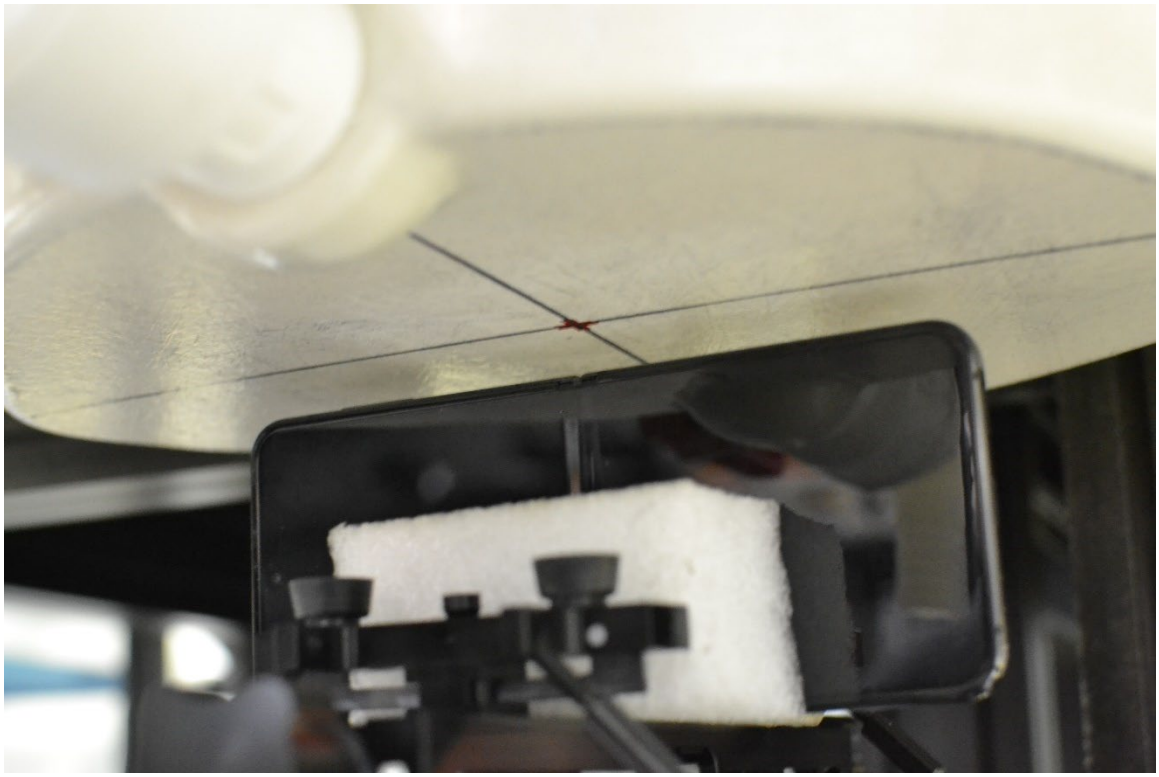
SAR Test Setup Photo 14 – Phablet, Bottom Edge at 0 mm



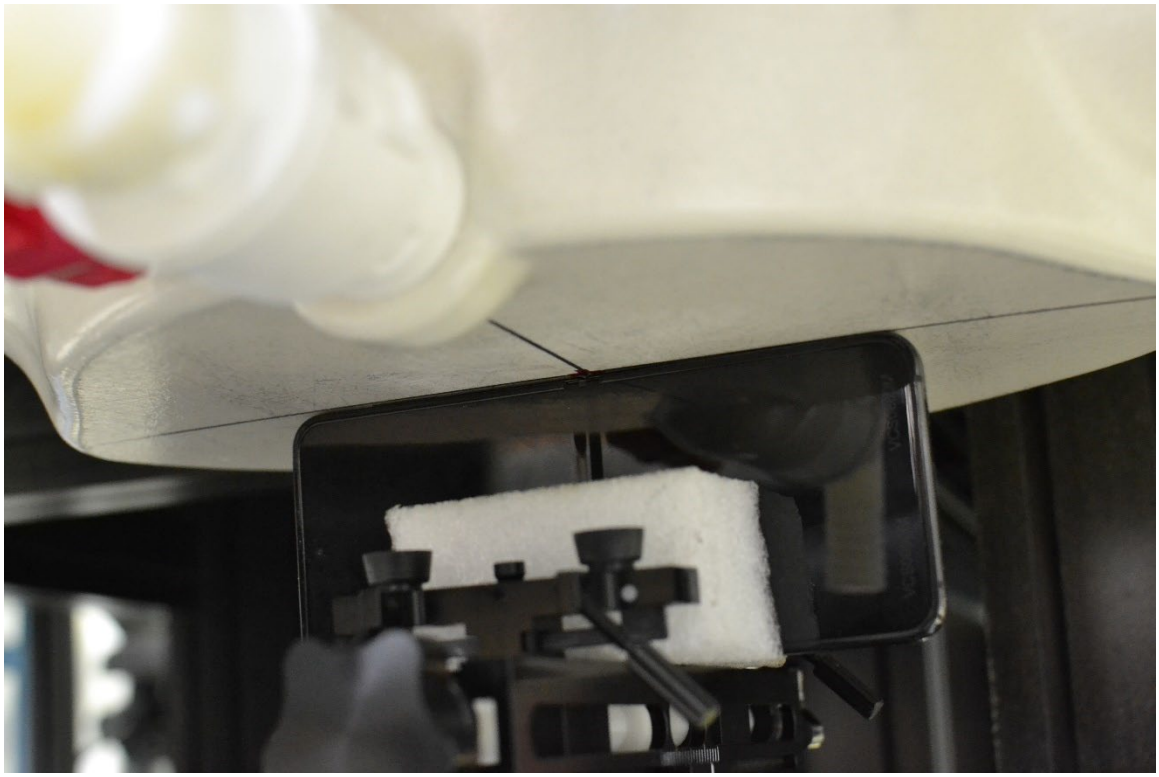
SAR Test Setup Photo 15 – Hotspot, Top Edge at 10 mm



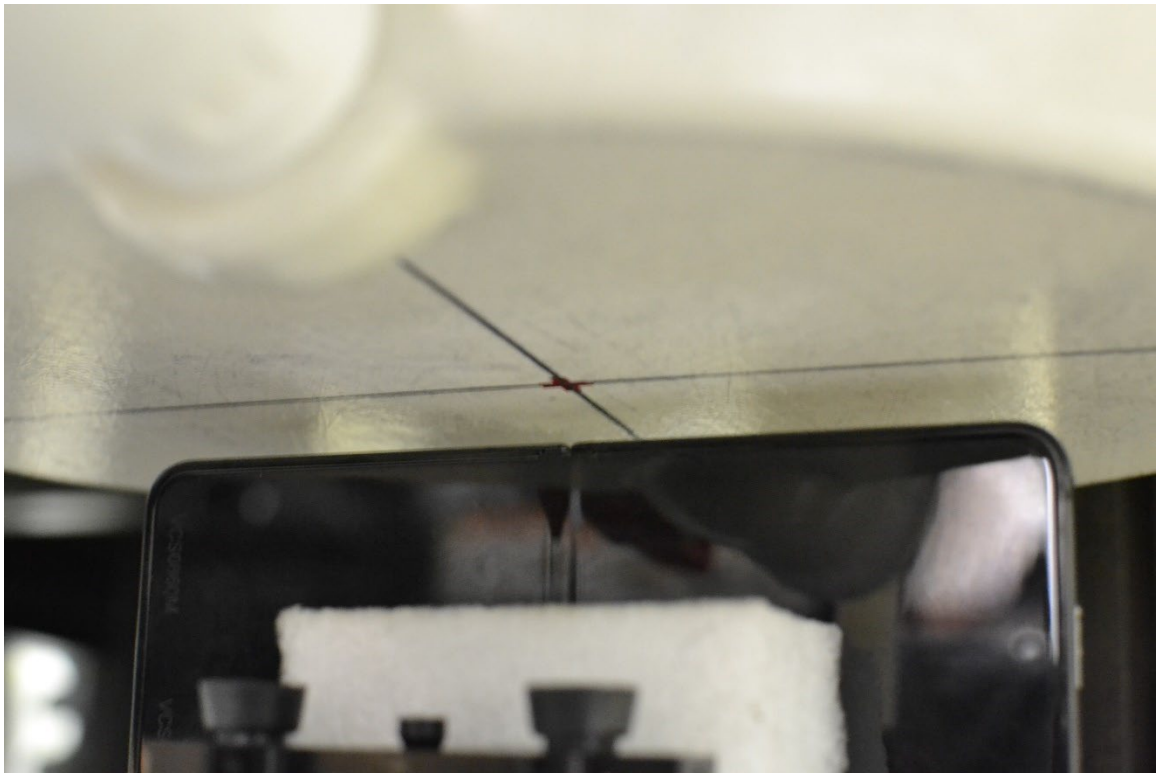
SAR Test Setup Photo 16 – Phablet, Top Edge at 0 mm



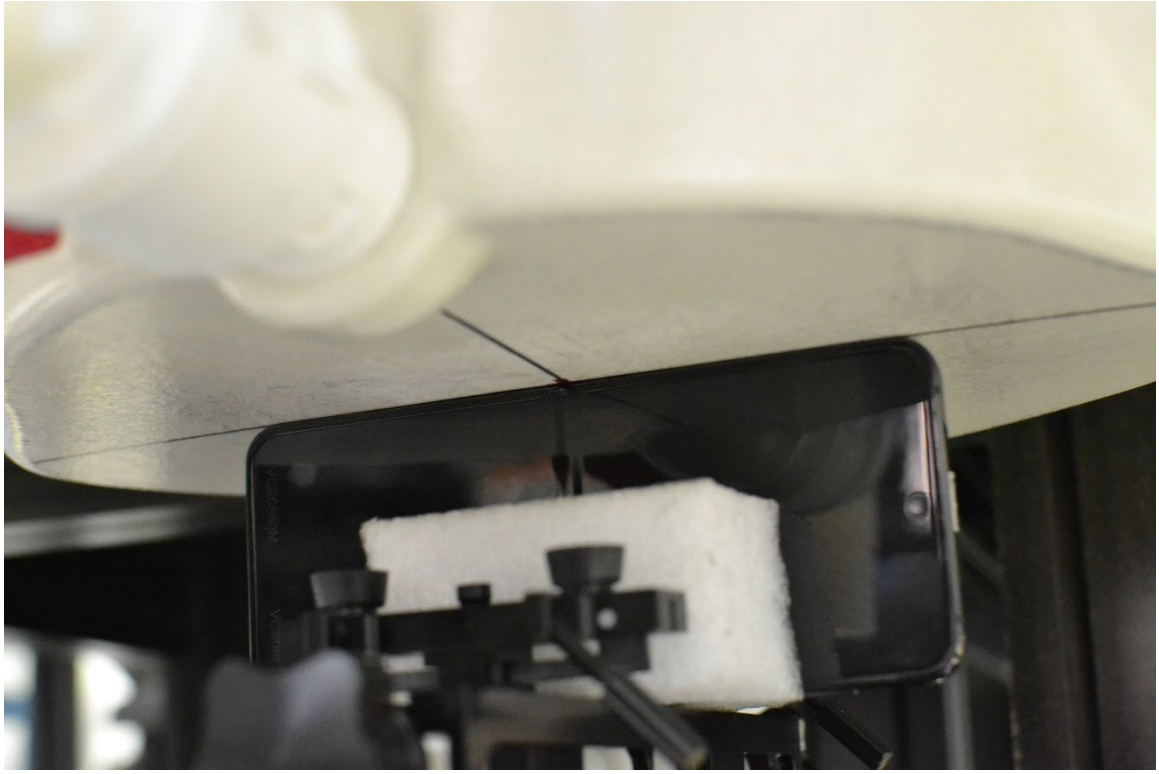
SAR Test Setup Photo 17 – Hotspot, Right Edge at 10 mm



SAR Test Setup Photo 18 – Phablet, Right Edge at 0 mm

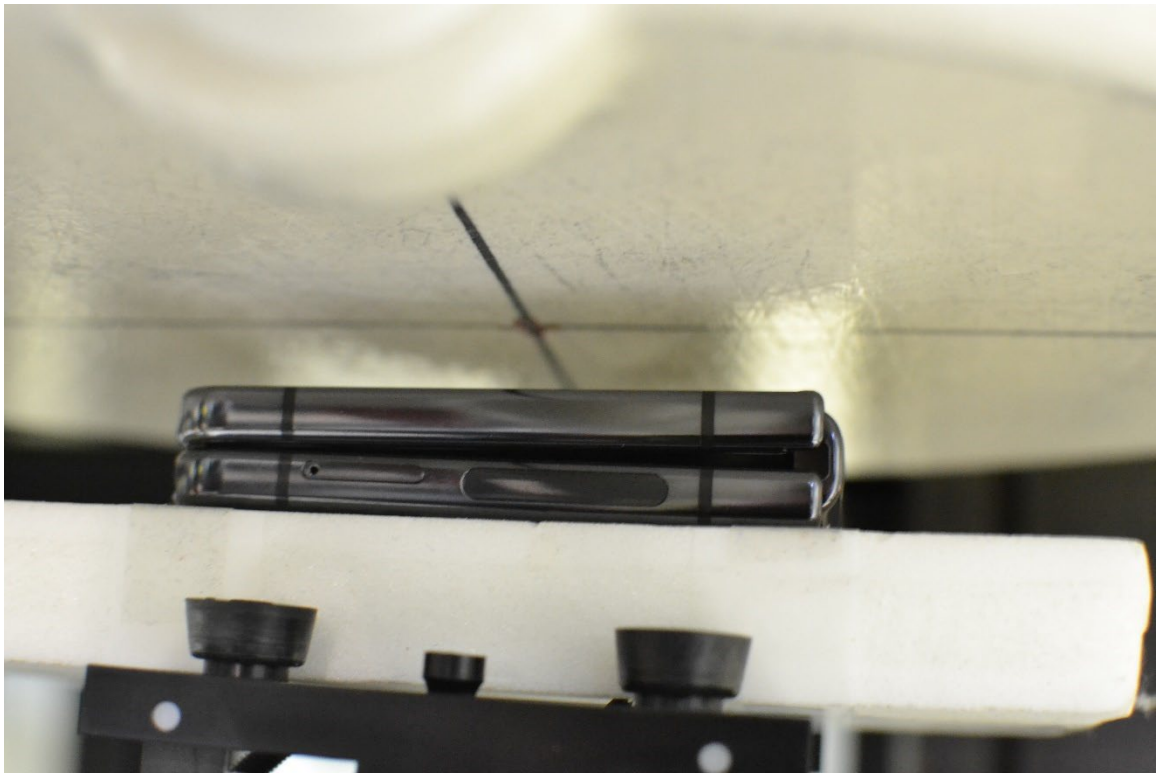


SAR Test Setup Photo 19 – Hotspot, Left Edge at 10 mm

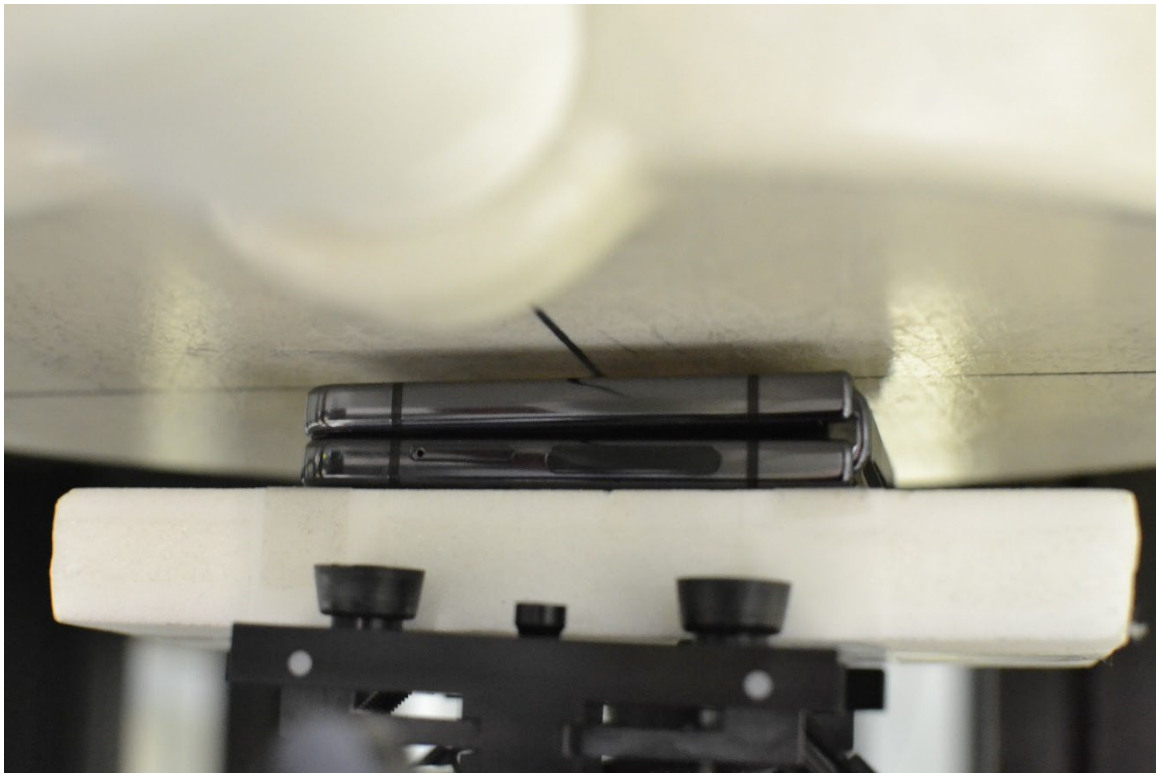


SAR Test Setup Photo 20 – Phablet, Left Edge at 0 mm

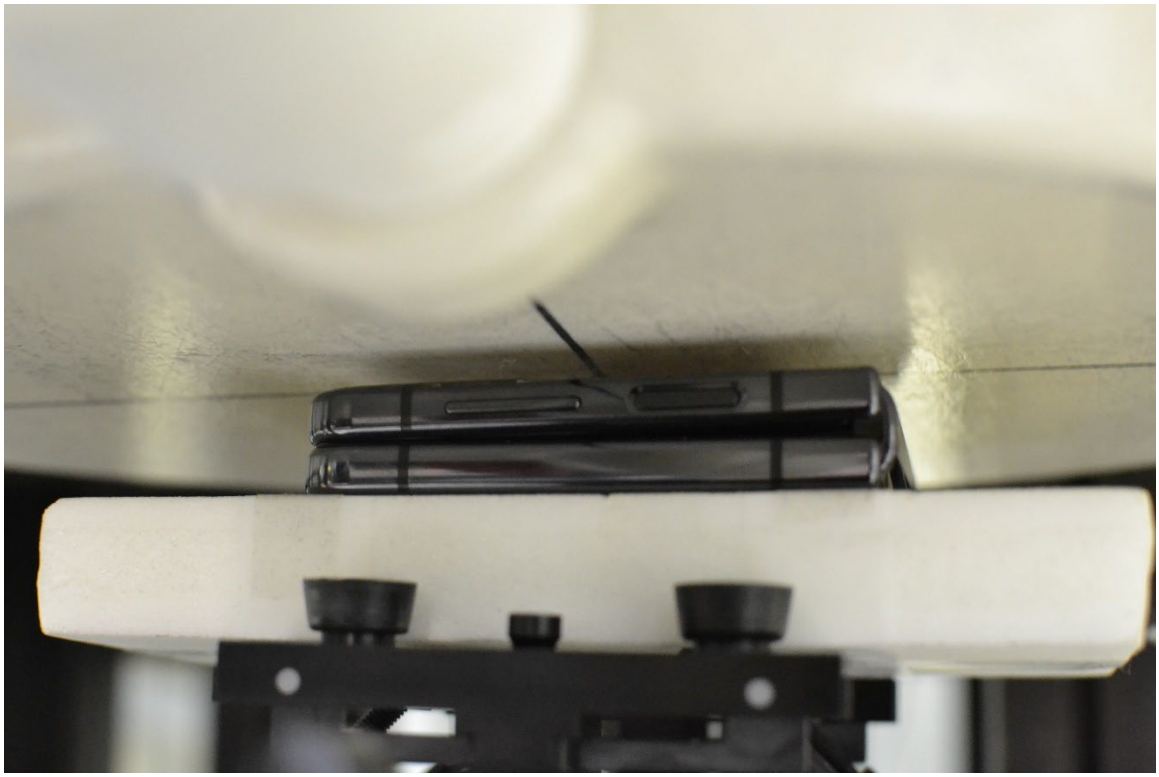
SAR Test Setup Photo 21 – Reference Lines



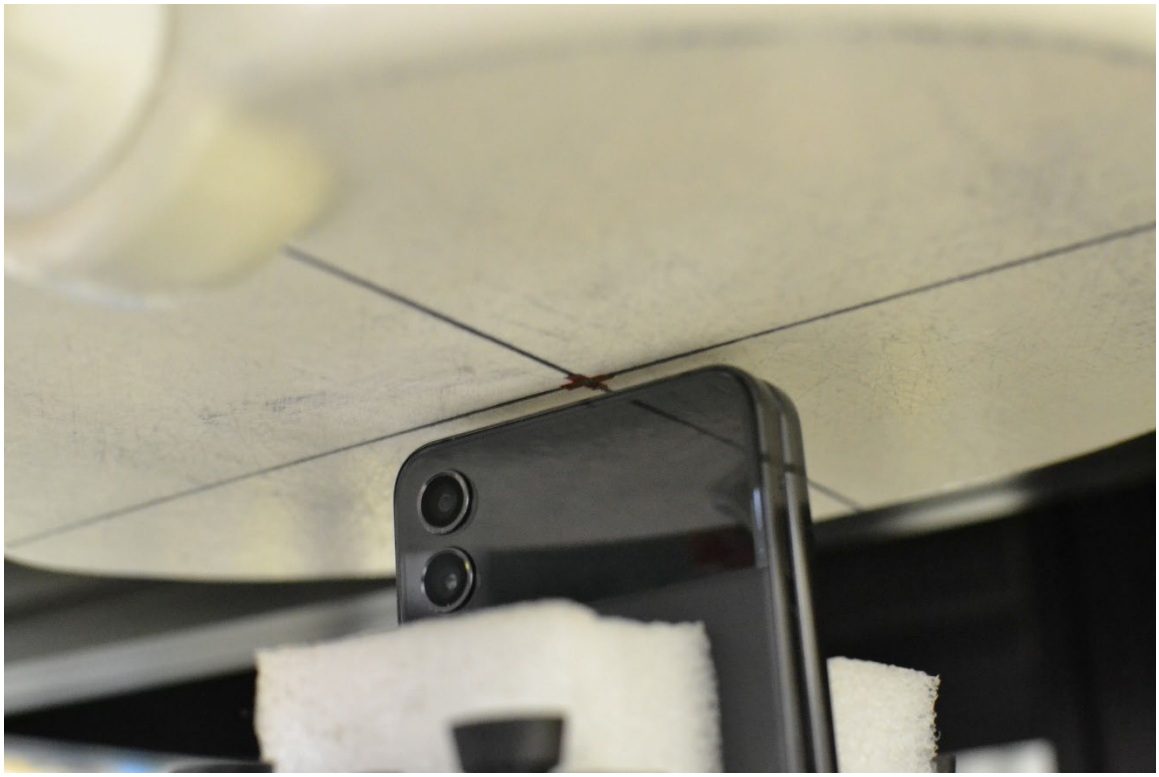
SAR Test Setup Photo 22 – Closed Body-worn, Back Side at 15 mm



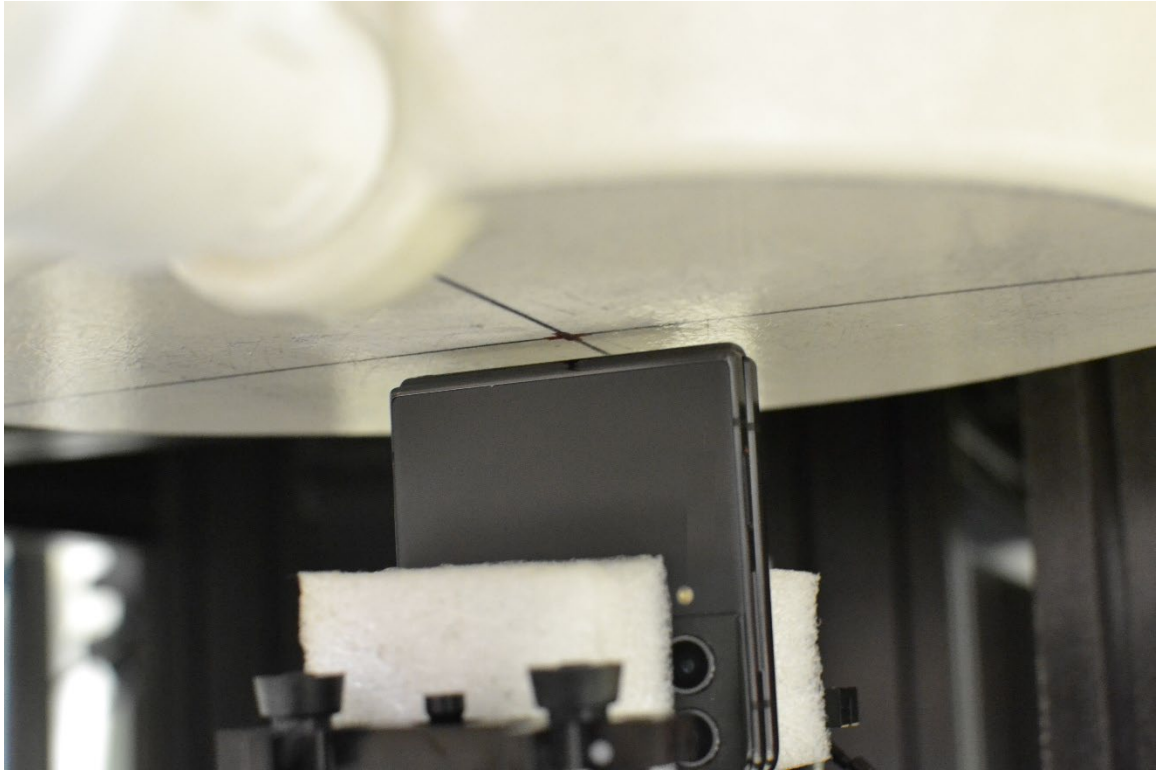
SAR Test Setup Photo 23 – Closed Hotspot, Back Side at 5 mm



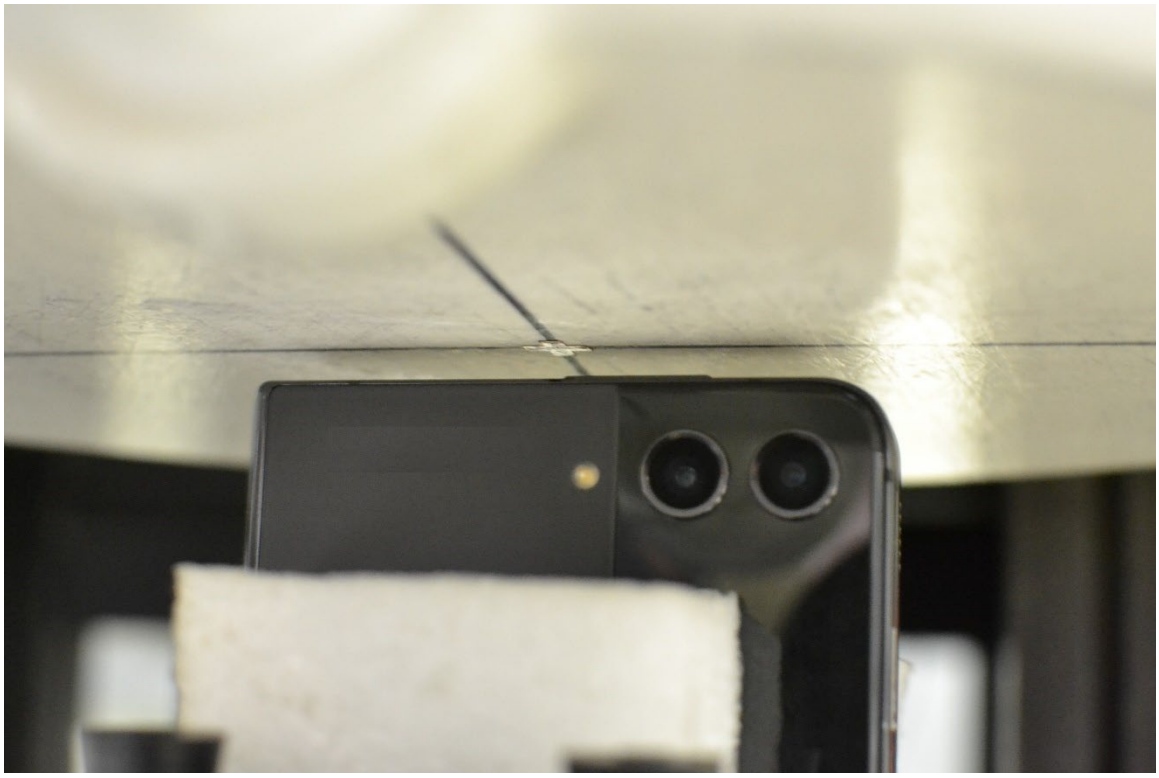
SAR Test Setup Photo 24 – Closed Hotspot, Front Side at 5 mm



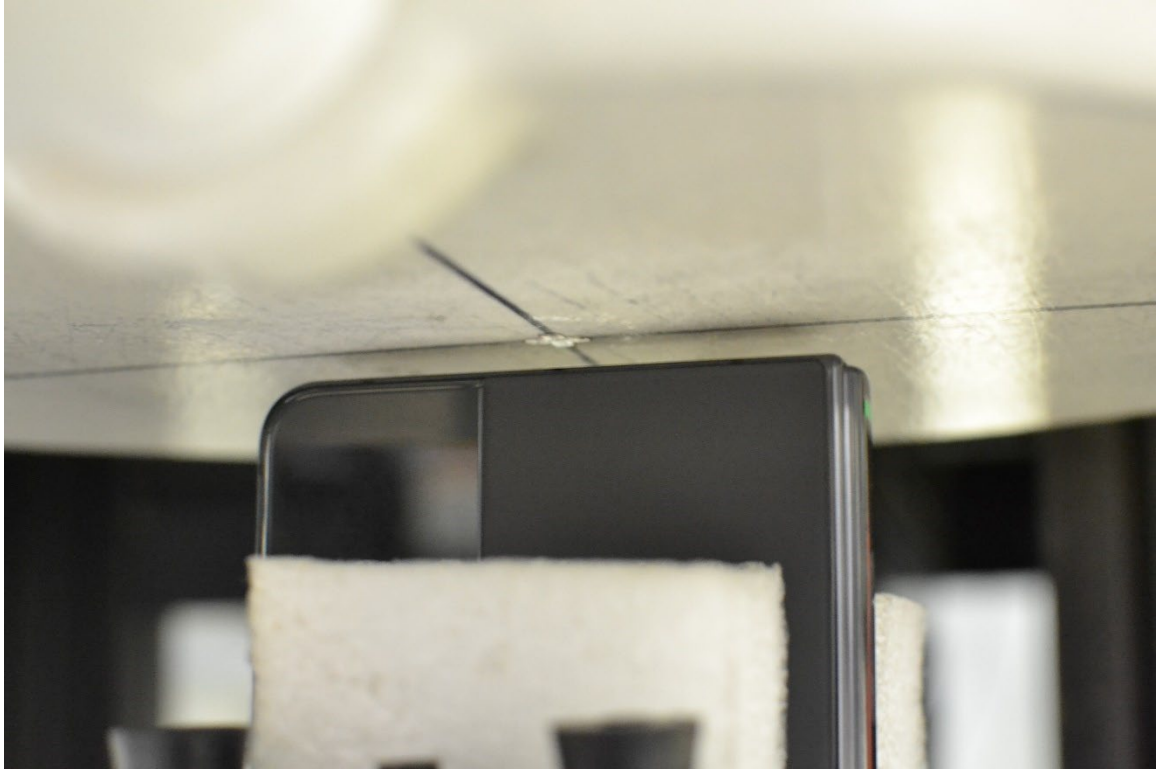
SAR Test Setup Photo 25 – Closed Hotspot, Bottom Edge at 5 mm



SAR Test Setup Photo 26 – Closed Hotspot, Top Edge at 5 mm



SAR Test Setup Photo 27 – Closed Hotspot, Right Edge at 5 mm



SAR Test Setup Photo 28 – Closed Hotspot, Left Edge at 5 mm