APPENDIX F: DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS

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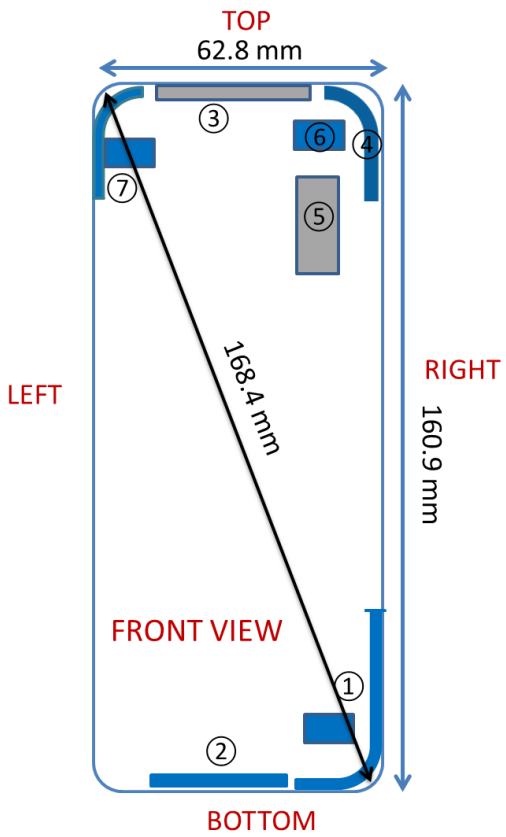

① Main Band Antenna A Tx/Rx
1. GSM/GPRS/EDGE 850 MHz
2. UMTS Band V
3. LTE Band 5/12/13/14/26/71
4. LTE Band 29 Rx Only

② Main Band Antenna B Tx/Rx
1. GSM/GPRS/EDGE 1900 MHz
2. LTE Band 2/4/7/25/30/38/41/66
3. UMTS Band II/IV

③ Sub Antenna C Rx only
1. GSM/GPRS/EDGE 850 MHz
2. UMTS Band V
3. LTE Band 5/12/13/14/26/71

④ WIFI Antenna D Tx/Rx
1. 2.4 GHz WIFI Antenna 1
2. 2.4 GHz Bluetooth
3. Ant +
4. GPS Rx Only
5. GSM/GPRS/EDGE 1900 MHz Rx Only
6. UMTS Band II/IV Rx Only
7. LTE Band 2/4/7/25/30/38/41/66 Rx Only

⑤ Sub Antenna E Rx
1. Non-US Band

⑥ WIFI Antenna F Tx/Rx
1. 5 GHz WIFI Antenna 1

⑦ WIFI Antenna G Tx/Rx
1. 2.4 GHz WIFI Antenna 2
2. 5 GHz WIFI Antenna 2

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

Figure F-1
DUT Antenna Locations Closed Configuration (Handset)

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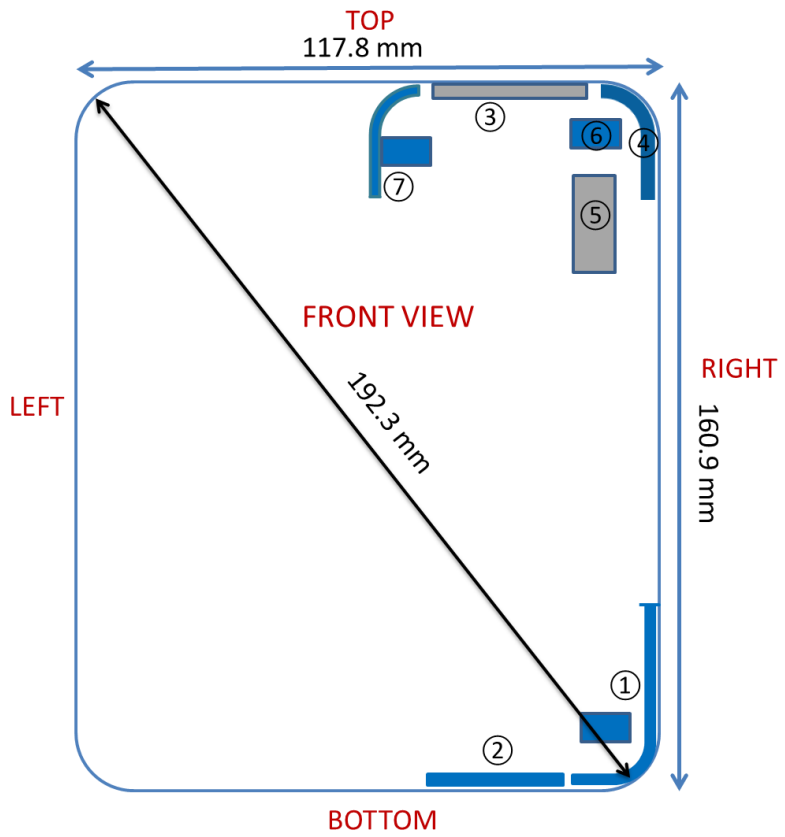

① Main Band Antenna A Tx/Rx
1. GSM/GPRS/EDGE 850 MHz
2. UMTS Band V
3. LTE Band 5/12/13/14/26/71
4. LTE Band 29 Rx Only

② Main Band Antenna B Tx/Rx
1. GSM/GPRS/EDGE 1900 MHz
2. LTE Band 2/4/7/25/30/38/41/66
3. UMTS Band II/IV

③ Sub Antenna C Rx only
1. GSM/GPRS/EDGE 850 MHz
2. UMTS Band V
3. LTE Band 5/12/13/14/26/71

④ WIFI Antenna D Tx/Rx
1. 2.4 GHz WIFI Antenna 1
2. 2.4 GHz Bluetooth
3. Ant +
4. GPS Rx Only
5. GSM/GPRS/EDGE 1900 MHz Rx Only
6. UMTS Band II/IV Rx Only
7. LTE Band 2/4/7/25/30/38/41/66 Rx Only

⑤ Sub Antenna E Rx
1. Non-US Band

⑥ WIFI Antenna F Tx/Rx
1. 5 GHz WIFI Antenna 1

⑦ WIFI Antenna G Tx/Rx
1. 2.4 GHz WIFI Antenna 2
2. 5 GHz WIFI Antenna 2

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

Figure F-2
DUT Antenna Locations Open Configuration (UMPC)

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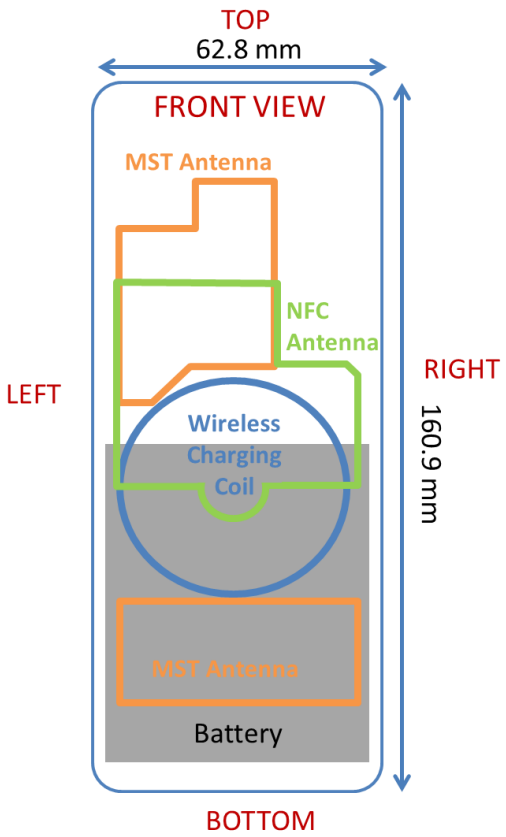

Figure F-3
MST/NFC Antenna and WPC Locations Closed Configuration (Handset)

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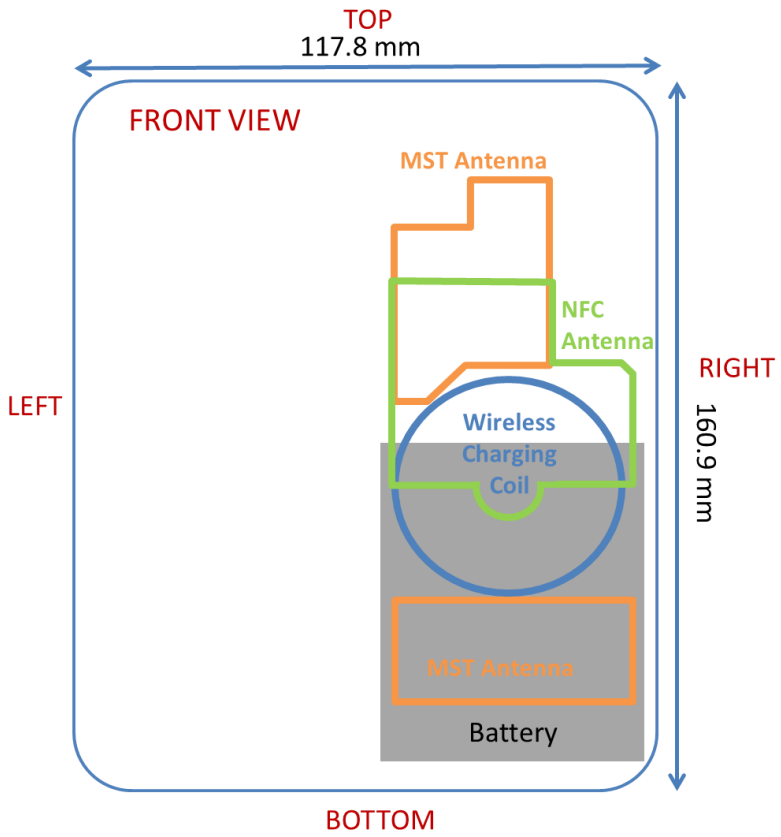

Figure F-4
MST/NFC Antenna and WPC Locations Open Configuration (UMPC)

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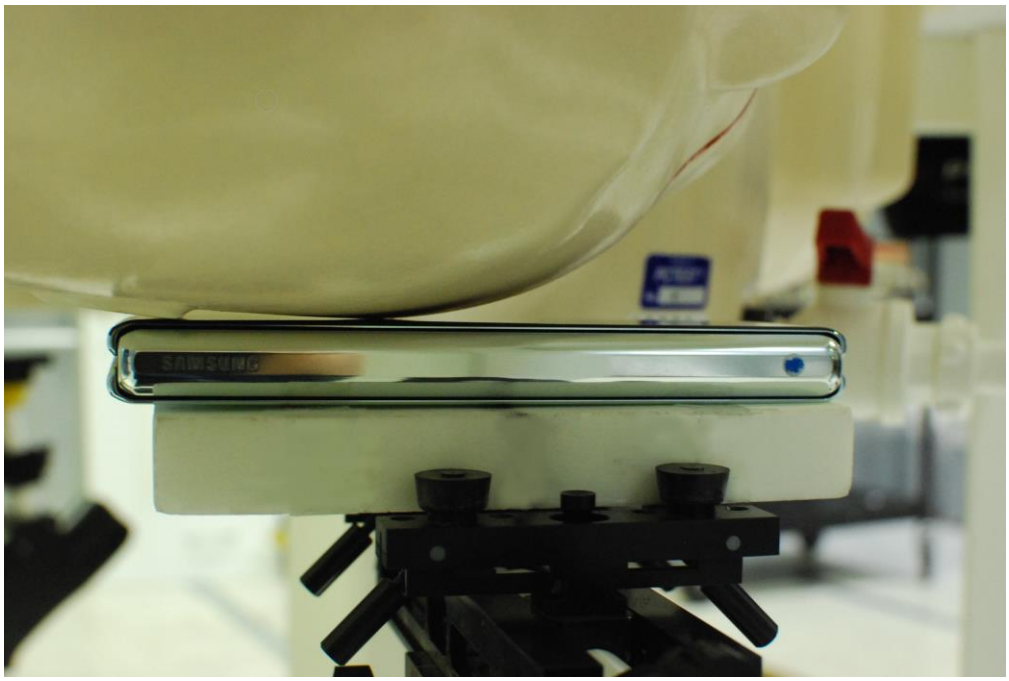
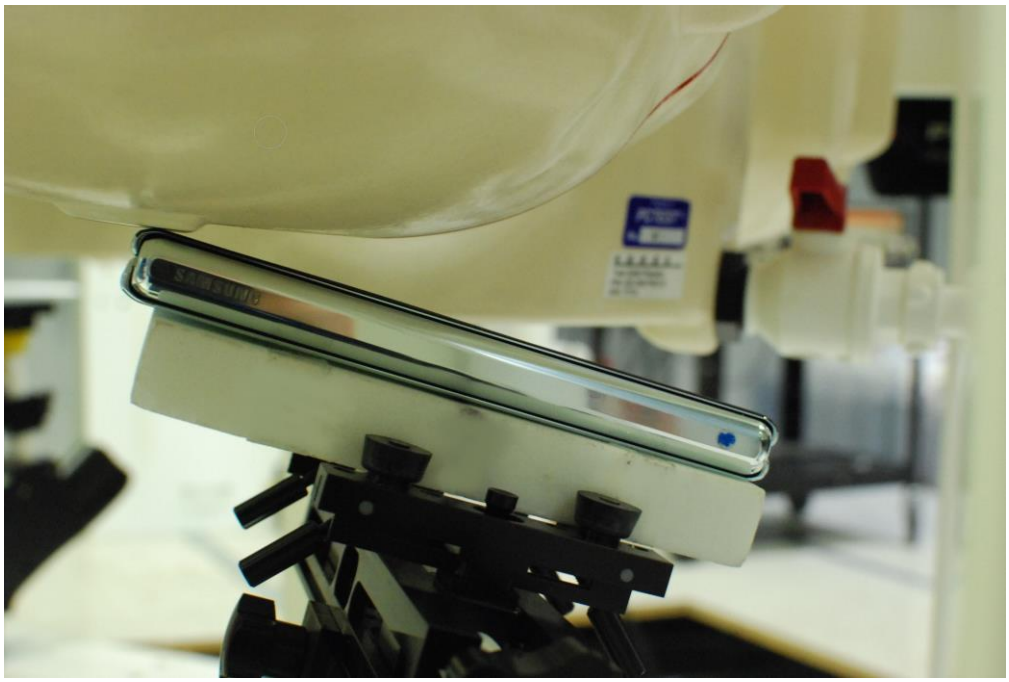
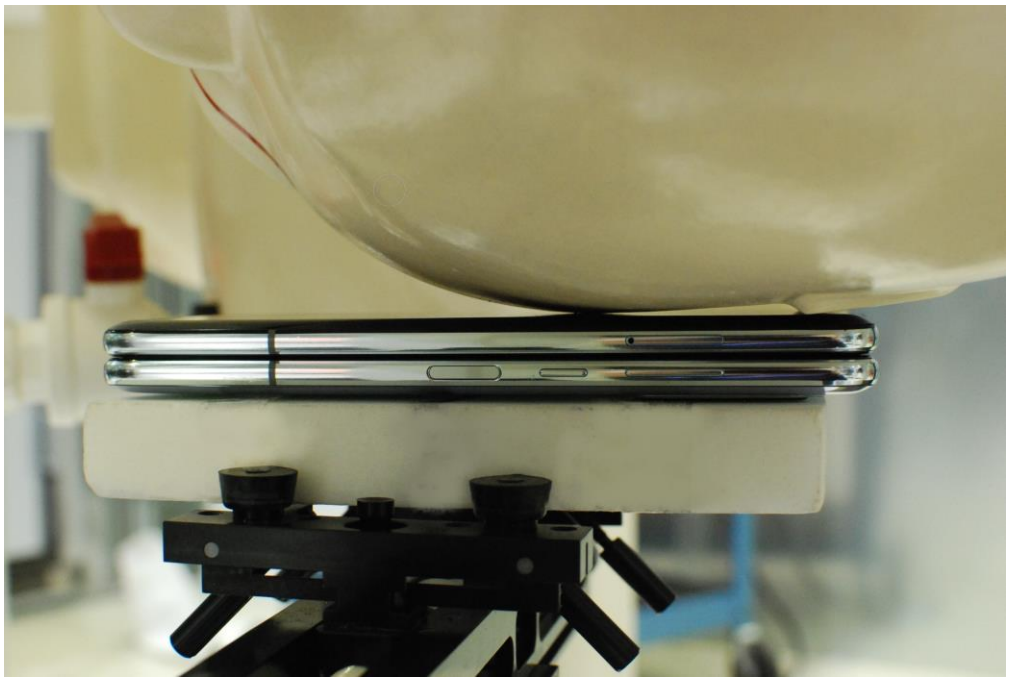


SAR Test Setup Photo 1 – Closed Configuration (Handset) Right Cheek

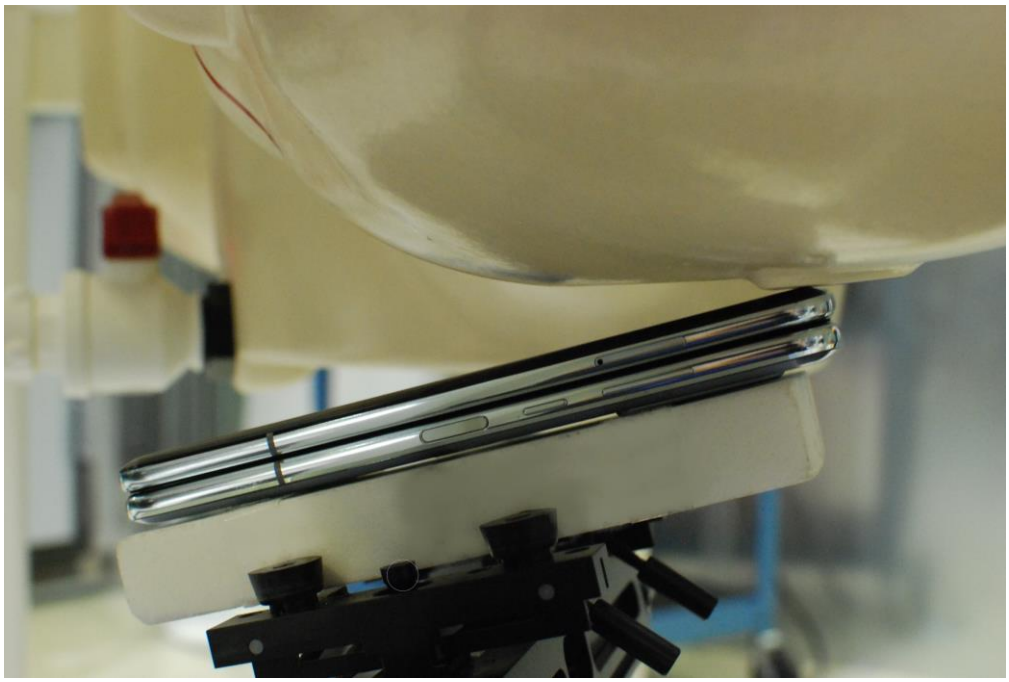


SAR Test Setup Photo 2 – Closed Configuration (Handset) Right Tilt

© 2019 PCTEST Engineering Laboratory, Inc.



SAR Test Setup Photo 3 – Closed Configuration (Handset) Left Cheek



SAR Test Setup Photo 4 – Closed Configuration (Handset) Left Tilt

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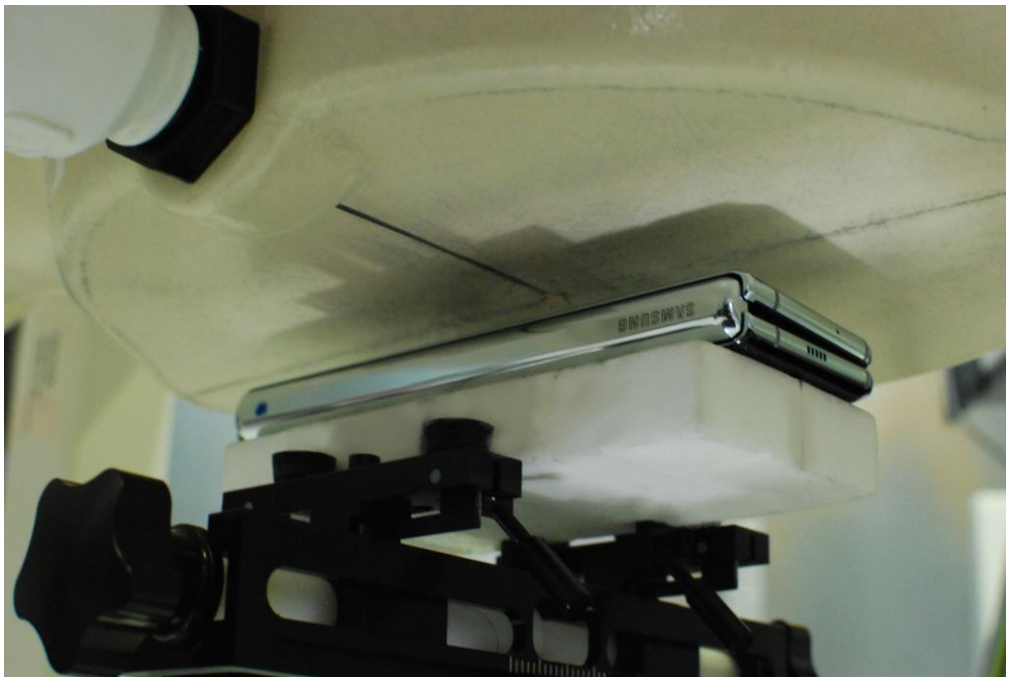

SAR Test Setup Photo 5 – Closed Configuration (Handset) Back Side at 15 mm

SAR Test Setup Photo 6 – Closed Configuration (Handset) Back Side at 11 mm

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SAR Test Setup Photo 7 – Closed Configuration (Handset) Back Side at 10 mm

SAR Test Setup Photo 8 – Closed Configuration (Handset) Back Side at 0 mm

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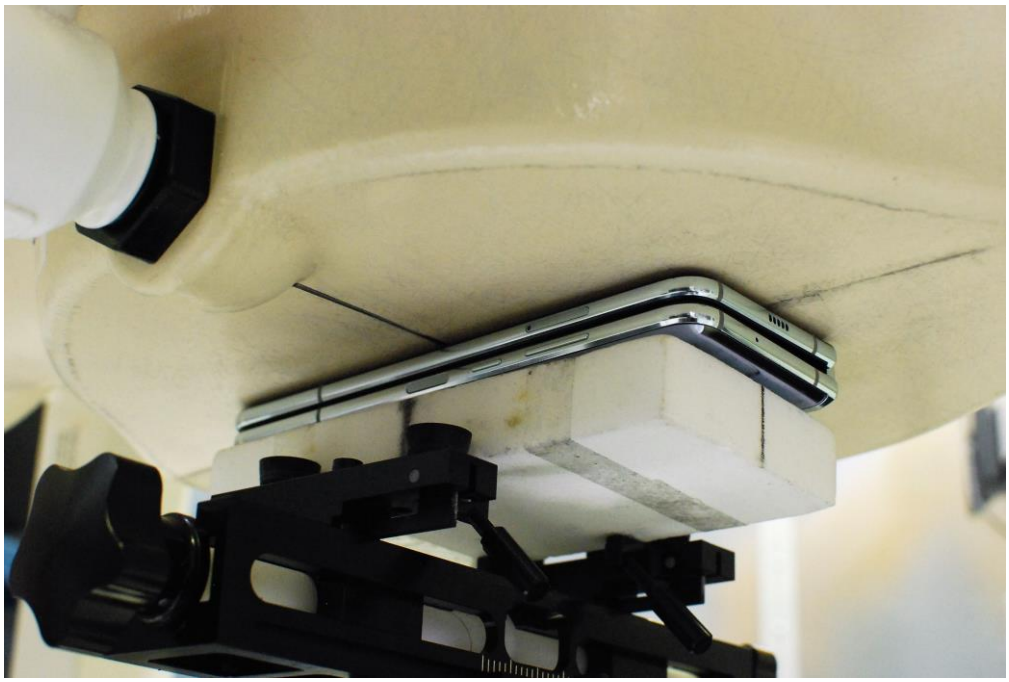
SAR Test Setup Photo 9 – Closed Configuration (Handset) Front Side at 10 mm



SAR Test Setup Photo 10 – Closed Configuration (Handset) Front Side at 0 mm

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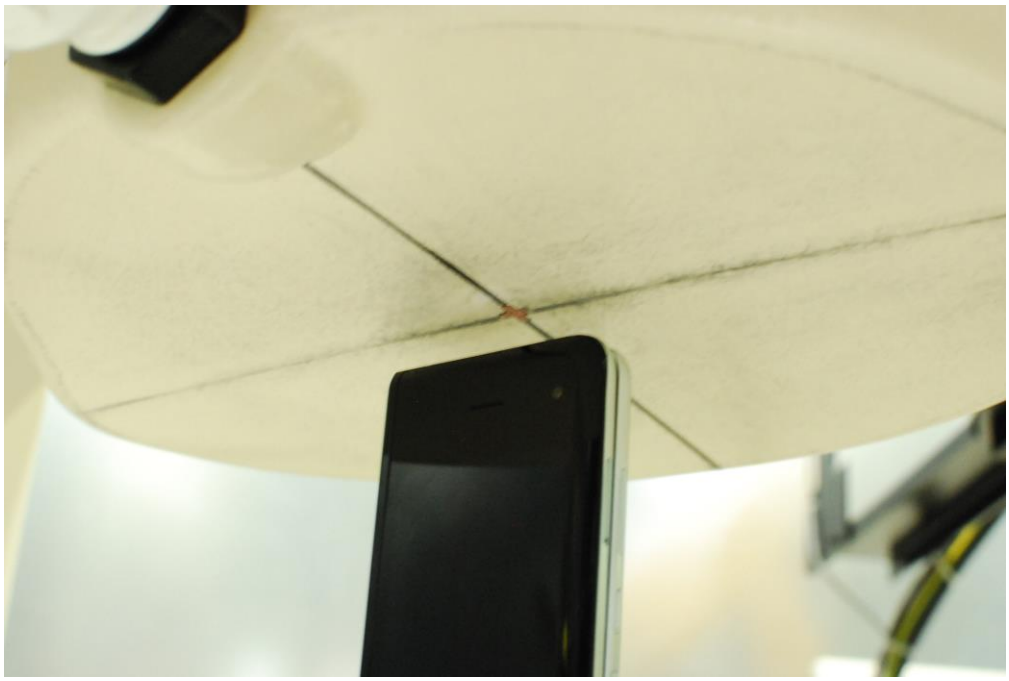

SAR Test Setup Photo 11 – Closed Configuration (Handset) Top Side at 10 mm

SAR Test Setup Photo 12 – Closed Configuration (Handset) Top Side at 0 mm

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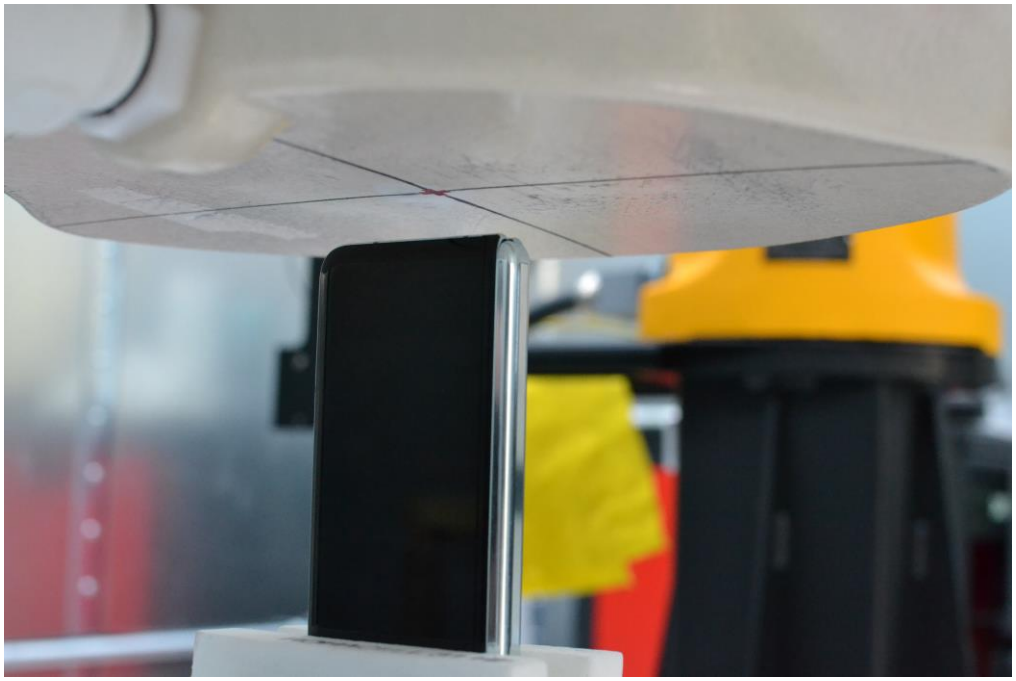
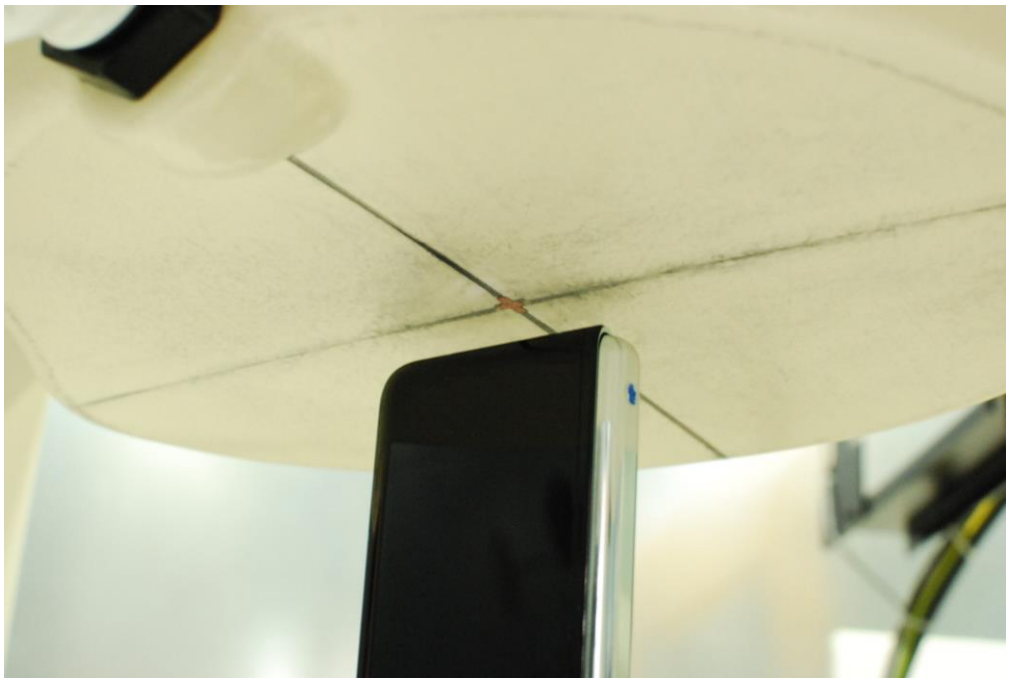


SAR Test Setup Photo 13 – Closed Configuration (Handset) Bottom Side at 13 mm



SAR Test Setup Photo 14 – Closed Configuration (Handset) Bottom Side at 10 mm

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SAR Test Setup Photo 15 – Closed Configuration (Handset) Bottom Side at 0 mm

SAR Test Setup Photo 16 – Closed Configuration (Handset) Right Side at 10 mm

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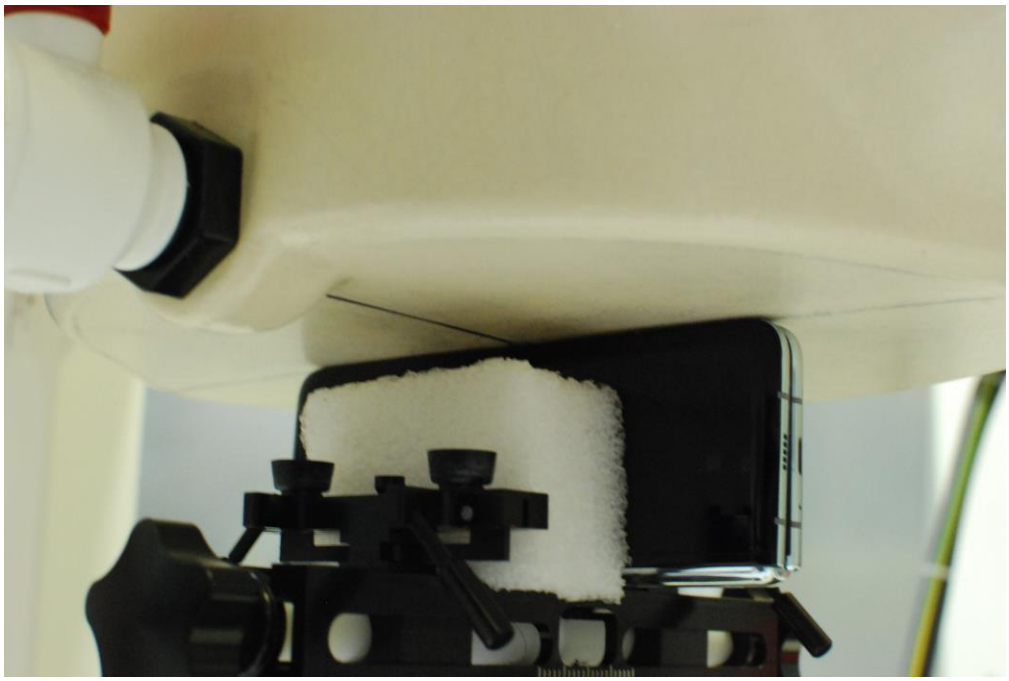
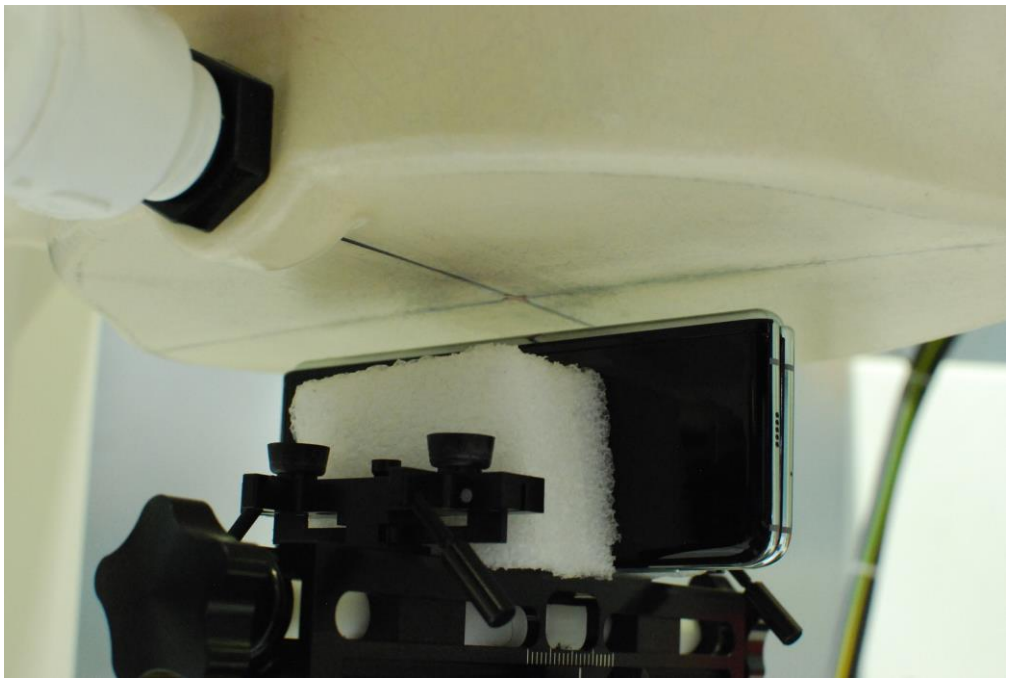


SAR Test Setup Photo 17 – Closed Configuration (Handset) Right Side at 0 mm



SAR Test Setup Photo 18 – Closed Configuration (Handset) Left Side at 10 mm

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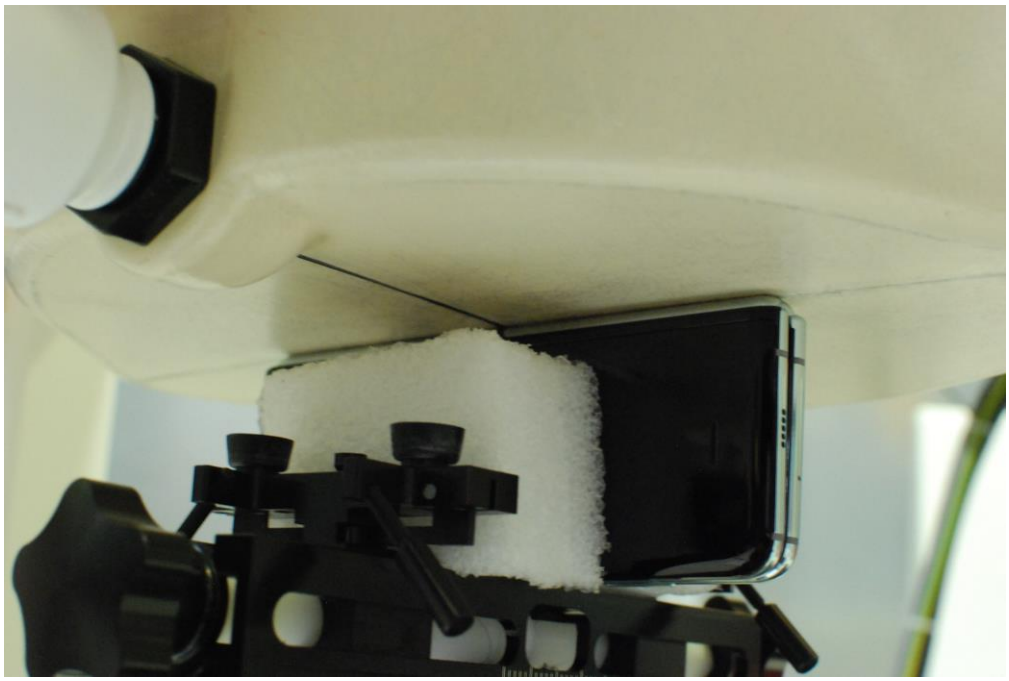

SAR Test Setup Photo 19 – Closed Configuration (Handset) Left Side at 0 mm

SAR Test Setup Photo 20 – Open Configuration (UMPC) Back Side at 12 mm

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SAR Test Setup Photo 21 – Open Configuration (UMPC) Back Side at 10 mm

SAR Test Setup Photo 22 – Open Configuration (UMPC) Back Side at 0 mm

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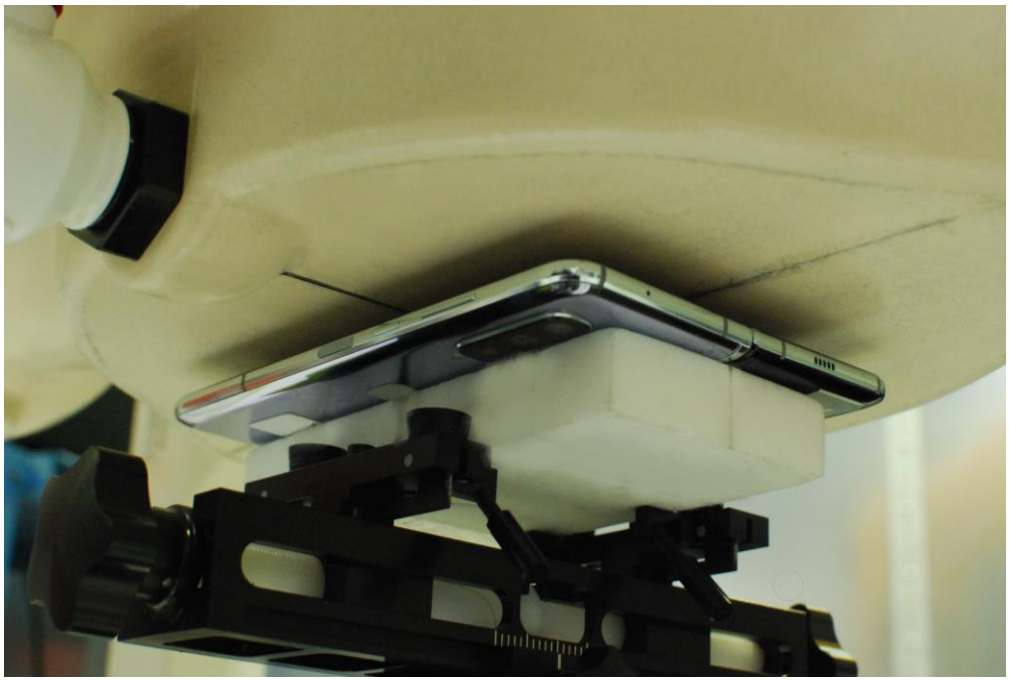

SAR Test Setup Photo 23 – Open Configuration (UMPC) Front Side at 11 mm

SAR Test Setup Photo 24 – Open Configuration (UMPC) Front Side at 10 mm

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SAR Test Setup Photo 25 – Open Configuration (UMPC) Front Side at 0 mm

SAR Test Setup Photo 26 – Open Configuration (UMPC) Top Side at 10 mm

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SAR Test Setup Photo 27 – Open Configuration (UMPC) Top Side at 0 mm

SAR Test Setup Photo 28 – Open Configuration (UMPC) Bottom Side at 16 mm

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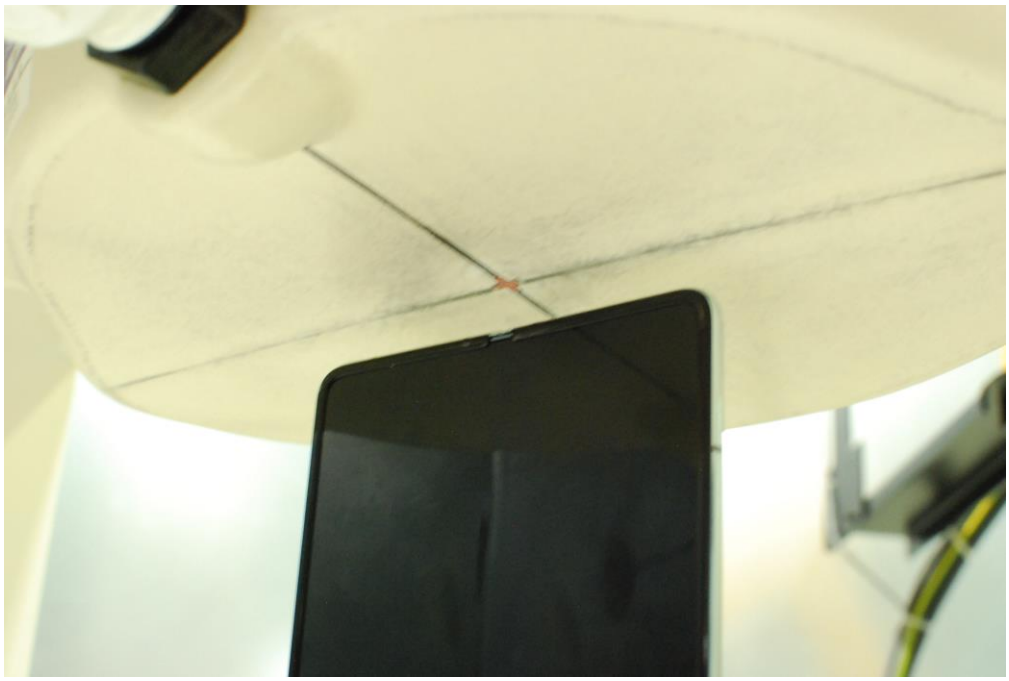
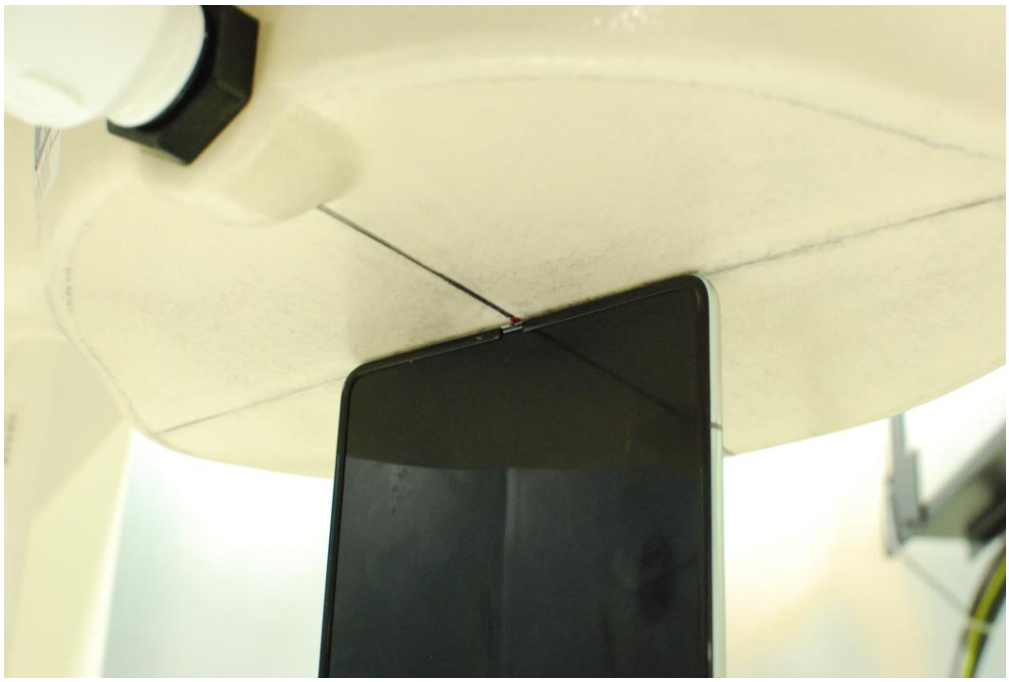


SAR Test Setup Photo 29 – Open Configuration (UMPC) Bottom Side at 10 mm



SAR Test Setup Photo 30 – Open Configuration (UMPC) Bottom Side at 0 mm

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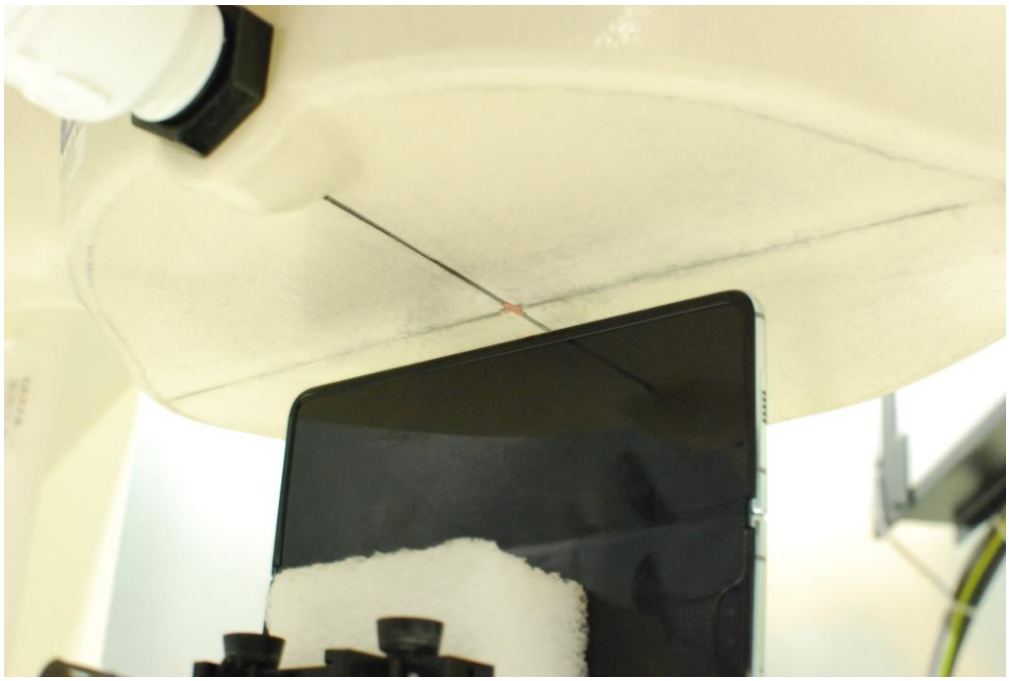
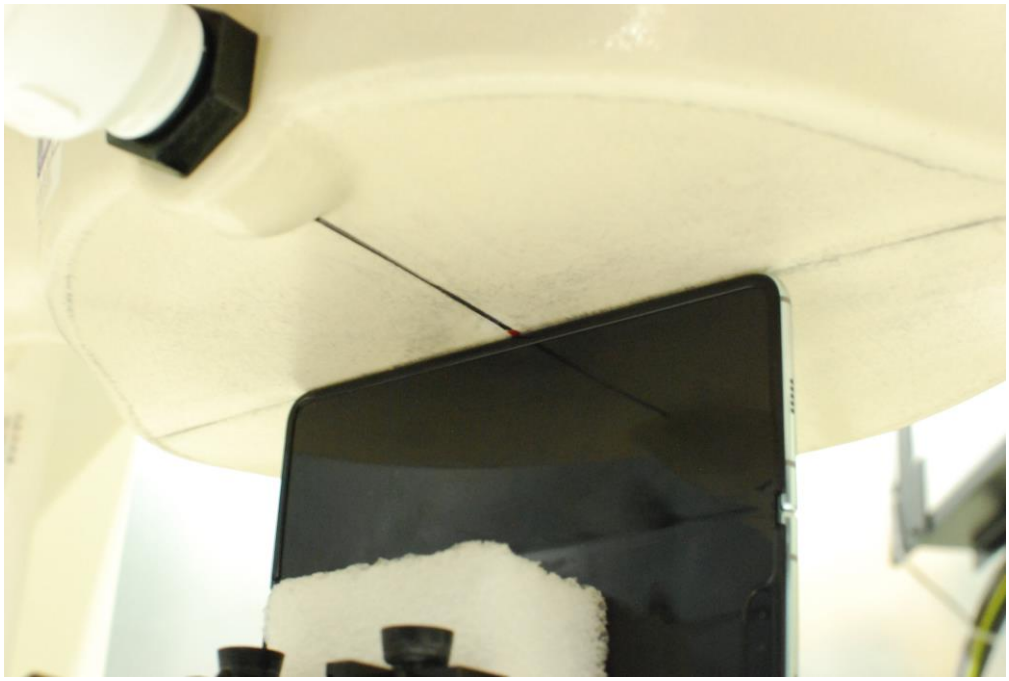


SAR Test Setup Photo 31 – Open Configuration (UMPC) Right Side at 10 mm



SAR Test Setup Photo 32 – Open Configuration (UMPC) Right Side at 0 mm

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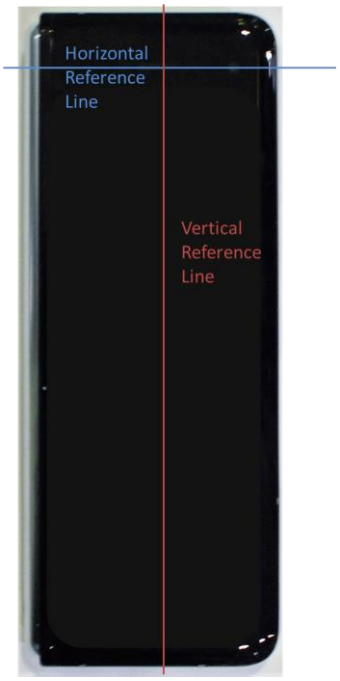

SAR Test Setup Photo 33 – Closed Configuration (Handset) Horizontal and Vertical Reference Lines

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