

APPENDIX E: MULTI-TX AND ANTENNA SAR CONSIDERATIONS

E.1 Introduction

This device implements a combined RF exposure management framework consisting of Samsung S.LSI C-TAS for cellular (2G/3G/4G/5G NR) technologies and Qualcomm® FastConnect TAS for WLAN technologies. Under this framework, each TAS feature independently performs real-time time-averaging algorithms to control and manage transmit power, ensuring that time-averaged RF exposure remains in compliance with FCC requirements at all times.

Under S.LSI C-TAS, the SAR budget is dynamically allocated across cellular and connectivity chipsets in real-time while maintaining compliance with the Total Exposure Ratio (TER) limit. The TAS Manager, executed in the Application Processor, regulates the average power limit (P_limit) of each chipset without modifying the underlying TAS algorithms of individual chipsets. Each chipset's TAS algorithm remains independently validated and certified. C-TAS only changes the average P_limit of each CP and Wi-Fi/BT chipset but does not change the TAS algorithm provided by each chipset. Therefore, the validation and certification of each chipset algorithm still applies without further actions or reporting.

The Qualcomm® FastConnect TAS algorithm independently maintains the time-averaged transmit power of WLAN below the predefined power limit (P_limit for WLAN) for each characterized technology and band. Both S.LSI and FastConnect TAS allow the device to transmit instantaneously at higher power (up to P_max) when needed, while enforcing power limiting to maintain time-averaged transmit power at or below P_limit.

Bluetooth (BT) does not operate with an independent TAS algorithm and is treated as operating at Peak Mode (fixed power) for SAR evaluation purposes. However, BT power contribution is monitored by the C-TAS TAS Manager and included in the TER calculation as part of system-level exposure management. NFC and WPT operate entirely outside the C-TAS framework and are treated as External Radios (ER) with fixed RF exposure contributions subtracted from the applicable regulatory limit.

Simultaneous transmission compliance under this combined framework is established through time-averaged, system-level validation where the TER is verified to remain below 1.0 under both steady-state and transient conditions.

Refer to the Compliance Summary document for detailed descriptions of S.LSI TAS and Qualcomm® FastConnect TAS features (report SN found in Section 2.11 – Bibliography).

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E.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all simultaneously transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg.

Per FCC KDB Publication 941225 D06v02r01, device edges with antennas more than 2.5 cm from the edge are not required to be evaluated for SAR and are indicated as "-" in the summary tables.

This device is enabled with Samsung S.LSI C-TAS for Sub-6 GHz cellular transmissions with pre-defined Sub-6 GHz antenna groups (AG0 and AG1) for the folder open configuration, and Qualcomm® FastConnect TAS for WLAN transmissions. Simultaneous transmission analysis is performed per antenna group. The analysis demonstrates:

- AG0 and AG1 are treated as decoupling cases based on R-Matrix assessment
- Compliance between AG0 and WLAN/BT, and between AG1 and WLAN/BT

The technology switch compliance test covers the transition sequence, through which CP (WWAN), WLAN, and BT modes are tested under simultaneous transmission output power conditions. In the simultaneous transmit state of each technology mode, the output power is monitored and controlled by the C-TAS algorithm, confirming that FCC regulatory limits are maintained throughout all transition states

When operating within the same antenna group, the Samsung S.LSI TAS algorithm in WWAN directly adds the time-averaged RF exposure from 4G and 5G NR. The S.LSI algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limits. Therefore, simultaneous transmission compliance between 4G and 5G NR operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.

Part 2 TAS validation is treated as algorithm-level validation. There are predefined steady states which are sufficient to cover all possible scenarios, and SAR compliance of each state is reported in certification. In addition, transition state conditions are verified to confirm that TER remains below 1.0 for each scenario. The SAR design target of 1.0 W/kg (over 1g) is established as the reference point after accounting for tune-up tolerance. The device measurement uncertainty for both WWAN (S.LSI) and WLAN (FastConnect) is 1.0 dB for this EUT.

Note: Bluetooth (BT) does not operate with an independent TAS algorithm and is treated as operating at Peak Mode (fixed power) for SAR evaluation purposes. However, BT power contribution is monitored by the C-TAS TAS Manager and included in the TER calculation as part of system-level exposure management. NFC and WPT operate entirely outside the C-TAS framework and are treated as External Radios (ER) with fixed RF exposure contributions subtracted from the applicable regulatory limit during simultaneous transmission evaluation.

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E.3 Antenna Groups

The Samsung S.LSI C-TAS operates based on pre-defined Sub-6 GHz antenna groups (AG) in the folder open configuration. Sub-6 GHz Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure distributions of one AG may be spatially decoupled from those of another AG through R-Matrix-based decoupling assessment.

AG Definition:

An antenna group (AG) is defined as a set of antennas that are located in the same physical region of the device, radiate into the same or highly overlapping SAR hotspot, and cannot be spatially separated for SAR evaluation purposes. Antennas within the same AG are assumed to be fully coupled and are represented by the maximum reported SAR among all antennas in that group:

- $AG = \max(\text{SAR}_{\text{ant1}}, \text{SAR}_{\text{ant2}}, \text{SAR}_{\text{ant3}}, \dots)$

This device supports two Sub-6 GHz AGs:

- **AG0:** Bottom antenna group, comprising antennas [A, B, C]
- **AG1:** Top antenna group, comprising antennas [E, F, G, H, I, K]

WLAN transmissions are managed independently by the Qualcomm® FastConnect TAS algorithm and are treated as a separate radio for simultaneous transmission evaluation purposes. BT does not have an independent TAS algorithm and is evaluated at P_max (Peak Mode); however, its RF exposure contribution is monitored by the C-TAS TAS Manager and included in the TER calculation. NFC and WPT operate entirely outside the C-TAS framework and are treated as External Radios (ER).

Decoupling Assessment Between AG0 and AG1:

Spatial decoupling between AG0 and AG1 is established through R-Matrix construction using the following sequential criteria:

- **SAR Summation Screening:** If the sum of SAR from one antenna in each AG is below the SAR design target (1.0 W/kg) for all test positions, the two AGs are directly declared decoupled.
- **SPLSR Evaluation:** If Step 1 is not satisfied, spatial coupling is evaluated using the Spatial Peak Location SAR Ratio (SPLSR) per FCC KDB 447498 D04 Section 4.3.2(c). If $\text{SPLSR} < 0.04$ for all relevant antenna pair combinations, the AGs are considered spatially independent and declared decoupled.
- **Volumetric SAR Evaluation:** If the SPLSR criterion is not satisfied, volumetric SAR evaluation is performed. If the volumetric SAR meets the SAR design target requirements, the AGs are declared decoupled; otherwise, they are treated as coupled.

The R-Matrix off-diagonal elements are defined as 0 (decoupled) or 1 (coupled). Once AG0 and AG1 are demonstrated to be spatially decoupled (off-diagonal = 0), simultaneous transmission evaluation may be performed independently for each AG consistent with the R-Matrix decoupling assessment.

$$R - \text{Matrix} = \begin{bmatrix} r_{11} & r_{12} & r_{13} \\ r_{21} & r_{22} & r_{23} \\ r_{31} & r_{32} & r_{33} \end{bmatrix}$$

$$R - \text{Matrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

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E.4 Head (RSI = 1) SAR Antenna Group Analysis

Table E-1
RSI=1 Held-to-ear Bottom Set Highest Reported Ratio to Limit

Bottom Set Ratio to Limit					
	Configuration	A	B	C	Max
Head	Right Cheek	0.263	0.084	0.034	0.263
	Right Tilt	0.118	0.044	0.028	0.118
	Left Cheek	0.161	0.073	0.112	0.161
	Left Tilt	0.094	0.035	0.018	0.094

Table E-2
RSI=1 Held-to-ear AG1 Highest Reported Ratio to Limit

Top Set Ratio to Limit									
	Configuration	E	F	G	H	I	K	MIMO	Max
Head	Right Cheek	0.613	0.478	0.704	0.128	0.108	0.083	0.459	0.704
	Right Tilt	0.178	0.350	0.609	0.086	0.016	0.087	0.359	0.609
	Left Cheek	0.235	0.139	0.277	0.571	0.646	0.148	0.481	0.646
	Left Tilt	0.106	0.164	0.266	0.443	0.059	0.107	0.188	0.443

Table E-3
RSI=1 Held-to-ear AG Verification

Head	Configuration	Bottom Set Ratio to Limit	Top Set Ratio to Limit	Bottom Set + Top Set Ratio to Limit
	Right Cheek	0.263	0.704	0.967
	Right Tilt	0.118	0.609	0.727
	Left Cheek	0.161	0.646	0.807
	Left Tilt	0.094	0.443	0.537



Right Cheek						
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant A_GSM 850	Top Set: Ant E_NR Band n5	0.064	0.613	0.677	78.81	0.01
Bottom Set: Ant A_GSM 850	Top Set: Ant G_2.4 GHz WIFI	0.064	0.704	0.768	90.13	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant E_NR Band n5	0.135	0.613	0.748	69.37	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant G_2.4 GHz Bluetooth	0.135	0.53	0.665	83.8	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant G_2.4 GHz WIFI	0.135	0.704	0.839	82.87	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant E_NR Band n5	0.139	0.613	0.752	73.64	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant E_UMTS 850	0.139	0.489	0.628	75	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant G_2.4 GHz Bluetooth	0.139	0.53	0.669	87.34	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant G_2.4 GHz WIFI	0.139	0.704	0.843	86.37	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant E_NR Band n5	0.178	0.613	0.791	80.51	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant E_UMTS 850	0.178	0.489	0.667	81.86	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant F_NR Band n77	0.178	0.478	0.656	91.11	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant G_2.4 GHz Bluetooth	0.178	0.53	0.708	93.26	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant G_2.4 GHz WIFI	0.178	0.704	0.882	92.25	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant MIMO_5 GHz WIFI	0.178	0.459	0.637	95.07	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant E_LTE Band 26	0.263	0.421	0.684	77.84	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant E_NR Band n5	0.263	0.613	0.876	77.53	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant E_NR Band n71	0.263	0.412	0.675	80.05	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant E_UMTS 850	0.263	0.489	0.752	78.92	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant F_5 GHz WIFI	0.263	0.424	0.687	93.66	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant F_NR Band n77	0.263	0.478	0.741	88.67	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant G_2.4 GHz Bluetooth	0.263	0.53	0.793	91.24	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant G_2.4 GHz WIFI	0.263	0.704	0.967	90.26	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant G_NR Band n41	0.263	0.399	0.662	90.76	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant MIMO_5 GHz WIFI	0.263	0.459	0.722	92.66	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant E_NR Band n5	0.108	0.613	0.721	64.57	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant G_2.4 GHz Bluetooth	0.108	0.53	0.638	81.55	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant G_2.4 GHz WIFI	0.108	0.704	0.812	80.71	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant E_NR Band n5	0.116	0.613	0.729	77.95	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant G_2.4 GHz Bluetooth	0.116	0.53	0.646	93.47	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant G_2.4 GHz WIFI	0.116	0.704	0.82	92.54	0.01
Bottom Set: Ant B_GSM 1900	Top Set: Ant E_NR Band n5	0.032	0.613	0.645	85.21	0.01
Bottom Set: Ant B_GSM 1900	Top Set: Ant G_2.4 GHz WIFI	0.032	0.704	0.736	96.42	0.01
Bottom Set: Ant B_LTE Band 25	Top Set: Ant E_NR Band n5	0.053	0.613	0.666	81.23	0.01
Bottom Set: Ant B_LTE Band 25	Top Set: Ant G_2.4 GHz WIFI	0.053	0.704	0.757	92.94	0.01
Bottom Set: Ant B_LTE Band 41	Top Set: Ant G_2.4 GHz WIFI	0.008	0.704	0.712	105.92	0.01
Bottom Set: Ant B_LTE Band 66	Top Set: Ant E_NR Band n5	0.054	0.613	0.667	79.21	0.01
Bottom Set: Ant B_LTE Band 66	Top Set: Ant G_2.4 GHz WIFI	0.054	0.704	0.758	91.37	0.01
Bottom Set: Ant B_NR Band n25	Top Set: Ant E_NR Band n5	0.068	0.613	0.681	82.76	0.01
Bottom Set: Ant B_NR Band n25	Top Set: Ant G_2.4 GHz WIFI	0.068	0.704	0.772	96.84	0.01
Bottom Set: Ant B_NR Band n41	Top Set: Ant G_2.4 GHz WIFI	0.005	0.704	0.709	93.42	0.01
Bottom Set: Ant B_NR Band n66	Top Set: Ant E_NR Band n5	0.084	0.613	0.697	75.81	0.01
Bottom Set: Ant B_NR Band n66	Top Set: Ant G_2.4 GHz WIFI	0.084	0.704	0.788	87.42	0.01
Bottom Set: Ant B_UMTS 1750	Top Set: Ant E_NR Band n5	0.043	0.613	0.656	78.72	0.01
Bottom Set: Ant B_UMTS 1750	Top Set: Ant G_2.4 GHz WIFI	0.043	0.704	0.747	89.65	0.01
Bottom Set: Ant B_UMTS 1900	Top Set: Ant E_NR Band n5	0.031	0.613	0.644	22.01	0.02
Bottom Set: Ant B_UMTS 1900	Top Set: Ant G_2.4 GHz WIFI	0.031	0.704	0.735	56.68	0.01
Bottom Set: Ant C_2.4 GHz Bluetooth	Top Set: Ant E_NR Band n5	0.019	0.613	0.632	23.31	0.02
Bottom Set: Ant C_2.4 GHz Bluetooth	Top Set: Ant G_2.4 GHz WIFI	0.019	0.704	0.723	53.56	0.01
Bottom Set: Ant C_2.4 GHz WIFI	Top Set: Ant E_NR Band n5	0.015	0.613	0.628	24.1	0.02
Bottom Set: Ant C_2.4 GHz WIFI	Top Set: Ant G_2.4 GHz WIFI	0.015	0.704	0.719	55.54	0.01
Bottom Set: Ant C_NR Band n41	Top Set: Ant E_NR Band n5	0.034	0.613	0.647	29.73	0.02
Bottom Set: Ant C_NR Band n41	Top Set: Ant G_2.4 GHz WIFI	0.034	0.704	0.738	65.02	0.01
Bottom Set: Ant C_NR Band n77	Top Set: Ant G_2.4 GHz WIFI	0.006	0.704	0.71	65.04	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant E_UMTS 850	0.135	0.489	0.624	70.73	N/A

Right Tilt						
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant A_GSM 850	Top Set: Ant G_2.4 GHz WIFI	0.029	0.609	0.638	62.88	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant G_2.4 GHz WIFI	0.064	0.609	0.673	54.35	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant G_2.4 GHz WIFI	0.064	0.609	0.673	62.83	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant G_2.4 GHz WIFI	0.073	0.609	0.682	73.3	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant G_2.4 GHz WIFI	0.118	0.609	0.727	59.39	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant G_2.4 GHz WIFI	0.049	0.609	0.658	62.26	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant G_2.4 GHz WIFI	0.079	0.609	0.688	84.05	0.01
Bottom Set: Ant B_GSM 1900	Top Set: Ant G_2.4 GHz WIFI	0.022	0.609	0.631	29.78	0.02
Bottom Set: Ant B_LTE Band 25	Top Set: Ant G_2.4 GHz WIFI	0.031	0.609	0.64	25.72	0.02
Bottom Set: Ant B_LTE Band 66	Top Set: Ant G_2.4 GHz WIFI	0.044	0.609	0.653	23.14	0.02
Bottom Set: Ant B_NR Band n25	Top Set: Ant G_2.4 GHz WIFI	0.028	0.609	0.637	28.28	0.02
Bottom Set: Ant B_NR Band n66	Top Set: Ant G_2.4 GHz WIFI	0.036	0.609	0.645	22.73	0.02
Bottom Set: Ant B_UMTS 1750	Top Set: Ant G_2.4 GHz WIFI	0.022	0.609	0.631	81.62	0.01
Bottom Set: Ant B_UMTS 1900	Top Set: Ant G_2.4 GHz WIFI	0.034	0.609	0.643	23.13	0.02
Bottom Set: Ant C_NR Band n41	Top Set: Ant G_2.4 GHz WIFI	0.028	0.609	0.637	23.45	0.02
Bottom Set: Ant C_2.4 GHz Bluetooth	Top Set: Ant G_2.4 GHz WIFI	0.011	0.609	0.62	16.96	N/A

Left Cheek						
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant A_GSM 850	Top Set: Ant I_5 GHz WIFI	0.025	0.646	0.671	30.38	0.02
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_NR Band n66	0.1	0.571	0.671	59.26	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant I_5 GHz WIFI	0.1	0.646	0.746	41.86	0.02
Bottom Set: Ant A_LTE Band 12	Top Set: Ant I_6 GHz WIFI	0.1	0.551	0.651	38.51	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_NR Band n66	0.093	0.571	0.664	53.28	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant I_5 GHz WIFI	0.093	0.646	0.739	35.6	0.02
Bottom Set: Ant A_LTE Band 13	Top Set: Ant I_6 GHz WIFI	0.093	0.551	0.644	32.32	0.02
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_NR Band n66	0.104	0.571	0.675	48.62	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant I_5 GHz WIFI	0.104	0.646	0.75	30.58	0.02
Bottom Set: Ant A_LTE Band 26	Top Set: Ant I_6 GHz WIFI	0.104	0.551	0.655	27.54	0.02
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_NR Band n66	0.161	0.571	0.732	50.59	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_UMTS 1750	0.161	0.467	0.628	50.92	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant I_5 GHz WIFI	0.161	0.646	0.807	32.67	0.02
Bottom Set: Ant A_NR Band n5	Top Set: Ant I_6 GHz WIFI	0.161	0.551	0.712	29.51	0.02
Bottom Set: Ant A_NR Band n5	Top Set: Ant MIMO_5 GHz WIFI	0.161	0.481	0.642	32.67	0.02
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_NR Band n66	0.076	0.571	0.647	59.8	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant I_5 GHz WIFI	0.076	0.646	0.722	42.64	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant I_6 GHz WIFI	0.076	0.551	0.627	39.25	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant H_NR Band n66	0.076	0.571	0.647	54.49	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant I_5 GHz WIFI	0.076	0.646	0.722	36.44	0.02
Bottom Set: Ant A_UMTS 850	Top Set: Ant I_6 GHz WIFI	0.076	0.551	0.627	33.33	0.01
Bottom Set: Ant B_GSM 1900	Top Set: Ant I_5 GHz WIFI	0.038	0.646	0.684	73.93	0.01
Bottom Set: Ant B_LTE Band 25	Top Set: Ant H_NR Band n66	0.058	0.571	0.629	87.36	0.01
Bottom Set: Ant B_LTE Band 25	Top Set: Ant I_5 GHz WIFI	0.058	0.646	0.704	71.9	0.01
Bottom Set: Ant B_LTE Band 41	Top Set: Ant I_5 GHz WIFI	0.013	0.646	0.659	108.05	0
Bottom Set: Ant B_LTE Band 66	Top Set: Ant I_5 GHz WIFI	0.051	0.646	0.697	75.41	0.01
Bottom Set: Ant B_NR Band n25	Top Set: Ant H_NR Band n66	0.054	0.571	0.625	88.69	0.01
Bottom Set: Ant B_NR Band n25	Top Set: Ant I_5 GHz WIFI	0.054	0.646	0.7	72.97	0.01
Bottom Set: Ant B_NR Band n41	Top Set: Ant I_5 GHz WIFI	0.023	0.646	0.669	103.5	0.01
Bottom Set: Ant B_NR Band n66	Top Set: Ant H_NR Band n66	0.073	0.571	0.644	86.97	0.01
Bottom Set: Ant B_NR Band n66	Top Set: Ant I_5 GHz WIFI	0.073	0.646	0.719	71.6	0.01
Bottom Set: Ant B_UMTS 1750	Top Set: Ant I_5 GHz WIFI	0.036	0.646	0.682	74.18	0.01
Bottom Set: Ant B_UMTS 1900	Top Set: Ant H_NR Band n66	0.065	0.571	0.636	126.05	0
Bottom Set: Ant B_UMTS 1900	Top Set: Ant I_5 GHz WIFI	0.065	0.646	0.711	110	0.01
Bottom Set: Ant C_2.4 GHz Bluetooth	Top Set: Ant I_5 GHz WIFI	0.042	0.646	0.688	106.23	0.01
Bottom Set: Ant C_2.4 GHz WIFI	Top Set: Ant I_5 GHz WIFI	0.038	0.646	0.684	108.65	0.01
Bottom Set: Ant C_NR Band n41	Top Set: Ant H_NR Band n66	0.112	0.571	0.683	88.3	0.01
Bottom Set: Ant C_NR Band n41	Top Set: Ant I_5 GHz WIFI	0.112	0.646	0.758	73.2	0.01
Bottom Set: Ant C_NR Band n41	Top Set: Ant I_6 GHz WIFI	0.112	0.551	0.663	69.76	0.01
Bottom Set: Ant C_NR Band n77	Top Set: Ant I_5 GHz WIFI	0.02	0.646	0.666	78.3	0.01
Bottom Set: Ant B_NR Band n66	Top Set: Ant I_6 GHz WIFI	0.073	0.551	0.624	68.16	N/A

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Notes:

1. For Left Tilt, since the worst case sum of all AG combinations are under 1 W/kg, the AGs are considered fully uncoupled and no further analysis is needed
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.02 per FCC KDB 447498 D04v01. Please see the Highest Report SAR and Hotspot Location Section for Y-axis peak locations
3. The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed."
4. Since either the sum of all AG combinations is less than or equal to 1W/kg or SPLSR is less or equal to 0.02, the AGs are considered fully uncoupled and no further analysis is needed.

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DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo. 	APPENDIX E: Page 7 of 29

E.5 Open Body (RSI = 0/2) SAR Antenna Group Analysis

Table E-4
RSI=0/2 Open Body AG0 Highest Reported Ratio to Limit

Bottom Set Ratio to Limit					
	Configuration	A	B	C	Max
Body	Back	0.714	0.688	0.701	0.714
	Front	0.437	0.352	0.444	0.444
	Top	-	-	-	-
	Bottom	0.538	0.753	0.123	0.753
	Right	0.373	-	-	0.373
	Left	-	0.330	0.723	0.723

Table E-5
RSI=0/2 Open Body AG1 Highest Reported Ratio to Limit

Top Set Ratio to Limit									
	Configuration	E	F	G	H	I	K	MIMO	Max
Body	Back	0.474	0.611	0.288	0.448	0.158	0.171	0.61	0.611
	Front	0.449	0.335	0.440	0.487	0.353	0.112	0.436	0.487
	Top	0.047	0.351	0.496	0.370	0.044	0.101	0.302	0.496
	Bottom	-	-	-	-	-	-	-	-
	Right	-	-	-	0.749	0.316	0.004	0.349	0.749
	Left	0.651	0.738	0.320	-	-	-	0.649	0.738

Table E-6
RSI=0/2 Open Body AG Verification

		Bottom Set Ratio to Limit	Top Set Ratio to Limit	Bottom Set + Top Set Ratio to Limit
Body (Bottom Set + Top Set)				
	Back	0.714	0.611	See table below
	Front	0.444	0.487	See table below
	Top	-	0.496	0.496
	Bottom	0.753	-	0.753
	Right	0.373	0.749	See table below
	Left	0.723	0.738	See table below

Back						
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant A, GSM 850	Top Set: Ant E, GSM 850	0.714	0.218	0.932	140.53	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, LTE Band 12	0.714	0.178	0.892	149.45	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, LTE Band 13	0.714	0.127	0.841	143.8	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, LTE Band 26	0.714	0.305	1.019	143.72	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, NR Band n5	0.714	0.474	1.188	145.09	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, NR Band n71	0.714	0.423	1.137	144.93	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant E, UMTS 850	0.714	0.304	1.018	142.22	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant F, 5 GHz WIFI	0.714	0.611	1.325	176.18	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant F, 6 GHz WIFI	0.714	0.052	0.766	170.04	0
Bottom Set: Ant A, GSM 850	Top Set: Ant F, NR Band n77	0.714	0.398	1.112	146.3	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant G, 2.4 GHz Bluetooth	0.714	0.182	0.896	174.05	0
Bottom Set: Ant A, GSM 850	Top Set: Ant G, 2.4 GHz WIFI	0.714	0.288	1.002	179.56	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant G, NR Band n41	0.714	0.24	0.954	174.83	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, LTE Band 25	0.714	0.25	0.964	168.21	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, LTE Band 41	0.714	0.215	0.929	162	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, LTE Band 66	0.714	0.134	0.848	168.21	0
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n25	0.714	0.388	1.102	170.83	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n41	0.714	0.348	1.062	163.4	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n66	0.714	0.448	1.162	169.63	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n77	0.714	0.319	1.033	146.46	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, UMTS 1750	0.714	0.278	0.992	161.61	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant H, UMTS 1900	0.714	0.208	0.922	167.47	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant I, 5 GHz WIFI	0.714	0.158	0.872	130.27	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant I, 6 GHz WIFI	0.714	0.02	0.734	115.18	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant K, NR Band n77	0.714	0.171	0.885	165.82	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant MIMO, 5 GHz WIFI	0.714	0.61	1.324	171.08	0.01
Bottom Set: Ant A, GSM 850	Top Set: Ant MIMO, 6 GHz WIFI	0.714	0.059	0.773	175.88	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, GSM 850	0.666	0.218	0.884	140.11	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, LTE Band 12	0.666	0.178	0.844	149.11	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, LTE Band 13	0.666	0.127	0.793	143.43	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, LTE Band 26	0.666	0.305	0.971	143.28	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, NR Band n5	0.666	0.474	1.14	144.74	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, NR Band n71	0.666	0.423	1.089	144.57	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, UMTS 850	0.666	0.304	0.97	141.93	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, 5 GHz WIFI	0.666	0.611	1.277	176.12	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, 6 GHz WIFI	0.666	0.052	0.718	169.96	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, NR Band n77	0.666	0.398	1.064	146.25	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant G, 2.4 GHz Bluetooth	0.666	0.182	0.848	174.28	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant G, 2.4 GHz WIFI	0.666	0.288	0.954	179.82	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant G, NR Band n41	0.666	0.24	0.906	175.07	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 25	0.666	0.25	0.916	169.3	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 41	0.666	0.215	0.881	163.19	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 66	0.666	0.134	0.8	169.3	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n25	0.666	0.388	1.054	171.88	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n41	0.666	0.348	1.014	164.31	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n66	0.666	0.448	1.114	170.68	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n77	0.666	0.319	0.985	147.7	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, UMTS 1750	0.666	0.278	0.944	162.82	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, UMTS 1900	0.666	0.208	0.874	168.56	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant I, 5 GHz WIFI	0.666	0.158	0.824	131.6	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant I, 6 GHz WIFI	0.666	0.02	0.686	116.54	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant K, NR Band n77	0.666	0.171	0.837	166.5	0
Bottom Set: Ant A, LTE Band 12	Top Set: Ant MIMO, 5 GHz WIFI	0.666	0.61	1.276	170.99	0.01
Bottom Set: Ant A, LTE Band 12	Top Set: Ant MIMO, 6 GHz WIFI	0.666	0.059	0.725	175.82	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, GSM 850	0.68	0.218	0.898	142.77	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, LTE Band 12	0.68	0.178	0.858	151.68	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, LTE Band 13	0.68	0.127	0.807	146.03	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, LTE Band 26	0.68	0.305	0.985	145.96	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, NR Band n5	0.68	0.474	1.154	147.32	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, NR Band n71	0.68	0.423	1.103	147.16	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, UMTS 850	0.68	0.304	0.984	144.45	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant F, 5 GHz WIFI	0.68	0.611	1.291	178.39	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant F, 6 GHz WIFI	0.68	0.052	0.732	172.25	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant F, NR Band n77	0.68	0.398	1.078	148.5	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant G, 2.4 GHz Bluetooth	0.68	0.182	0.862	176.19	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant G, 2.4 GHz WIFI	0.68	0.288	0.968	181.7	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant G, NR Band n41	0.68	0.24	0.92	176.97	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 25	0.68	0.25	0.93	170.05	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 41	0.68	0.215	0.895	163.79	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 66	0.68	0.134	0.814	170.05	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n25	0.68	0.388	1.068	172.7	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n41	0.68	0.348	1.028	165.33	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n66	0.68	0.448	1.128	171.49	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n77	0.68	0.319	0.999	148.23	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, UMTS 1750	0.68	0.278	0.958	163.39	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, UMTS 1900	0.68	0.208	0.888	169.32	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant I, 5 GHz WIFI	0.68	0.158	0.838	131.99	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant I, 6 GHz WIFI	0.68	0.02	0.7	116.88	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant K, NR Band n77	0.68	0.171	0.851	167.83	0
Bottom Set: Ant A, LTE Band 13	Top Set: Ant MIMO, 5 GHz WIFI	0.68	0.61	1.29	173.28	0.01
Bottom Set: Ant A, LTE Band 13	Top Set: Ant MIMO, 6 GHz WIFI	0.68	0.059	0.739	178.08	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant E, NR Band n5	0.309	0.474	0.783	145.73	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant E, NR Band n71	0.309	0.423	0.732	145.55	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant F, 5 GHz WIFI	0.309	0.611	0.92	177.15	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant F, NR Band n77	0.309	0.398	0.707	147.29	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n25	0.309	0.388	0.697	172.99	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n41	0.309	0.348	0.657	165.41	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n66	0.309	0.448	0.757	171.78	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n77	0.309	0.319	0.628	148.79	0
Bottom Set: Ant A, LTE Band 26	Top Set: Ant MIMO, 5 GHz WIFI	0.309	0.61	0.919	172.02	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, GSM 850	0.691	0.218	0.909	142.52	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, LTE Band 12	0.691	0.178	0.869	151.47	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, LTE Band 13	0.691	0.127	0.818	145.81	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, LTE Band 26	0.691	0.305	0.996	145.7	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, NR Band n5	0.691	0.474	1.165	147.11	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, NR Band n71	0.691	0.423	1.114	146.94	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, UMTS 850	0.691	0.304	0.995	144.26	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant F, 5 GHz WIFI	0.691	0.611	1.302	178.31	0.01

Bottom Set: Ant A, NR Band n5	Top Set: Ant F, 6 GHz WIFI	0.691	0.052	0.743	172.16	0
Bottom Set: Ant A, NR Band n5	Top Set: Ant F, NR Band n77	0.691	0.398	1.089	148.43	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, 2.4 GHz Bluetooth	0.691	0.182	0.873	176.26	0
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, 2.4 GHz WIFI	0.691	0.288	0.979	181.78	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, NR Band n41	0.691	0.24	0.931	177.04	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 25	0.691	0.25	0.941	170.53	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 41	0.691	0.215	0.906	164.32	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 66	0.691	0.134	0.825	170.53	0
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n25	0.691	0.388	1.079	173.15	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n41	0.691	0.348	1.039	165.71	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n66	0.691	0.448	1.139	171.95	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n77	0.691	0.319	1.01	148.77	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, UMTS 1750	0.691	0.278	0.969	163.92	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, UMTS 1900	0.691	0.208	0.899	169.79	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant I, 5 GHz WIFI	0.691	0.158	0.849	132.58	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant I, 6 GHz WIFI	0.691	0.02	0.711	117.48	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant K, NR Band n77	0.691	0.171	0.862	168.11	0
Bottom Set: Ant A, NR Band n5	Top Set: Ant MIMO, 5 GHz WIFI	0.691	0.61	1.301	173.19	0.01
Bottom Set: Ant A, NR Band n5	Top Set: Ant MIMO, 6 GHz WIFI	0.691	0.059	0.75	178.01	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, GSM 850	0.468	0.218	0.686	140.29	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, LTE Band 12	0.468	0.178	0.646	149.24	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, LTE Band 26	0.468	0.305	0.773	143.47	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, NR Band n5	0.468	0.474	0.942	144.88	0.01
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, NR Band n71	0.468	0.423	0.891	144.71	0.01
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, UMTS 850	0.468	0.304	0.772	142.04	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant F, 5 GHz WIFI	0.468	0.611	1.079	176.11	0.01
Bottom Set: Ant A, NR Band n71	Top Set: Ant F, NR Band n77	0.468	0.398	0.866	146.24	0.01
Bottom Set: Ant A, NR Band n71	Top Set: Ant G, 2.4 GHz Bluetooth	0.468	0.182	0.65	174.12	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant G, 2.4 GHz WIFI	0.468	0.288	0.756	179.64	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant G, NR Band n41	0.468	0.24	0.708	174.9	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, LTE Band 25	0.468	0.25	0.718	168.69	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, LTE Band 41	0.468	0.215	0.683	162.53	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n25	0.468	0.388	0.856	171.3	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n41	0.468	0.348	0.816	163.79	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n66	0.468	0.448	0.916	170.09	0.01
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n77	0.468	0.319	0.787	147.01	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, UMTS 1750	0.468	0.278	0.746	162.15	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, UMTS 1900	0.468	0.208	0.676	167.95	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant I, 5 GHz WIFI	0.468	0.158	0.626	130.87	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant K, NR Band n77	0.468	0.171	0.639	166.1	0
Bottom Set: Ant A, NR Band n71	Top Set: Ant MIMO, 5 GHz WIFI	0.468	0.61	1.078	170.99	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, GSM 850	0.546	0.218	0.764	138.01	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, LTE Band 12	0.546	0.178	0.724	147.01	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, LTE Band 13	0.546	0.127	0.673	141.33	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, LTE Band 26	0.546	0.305	0.851	141.18	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, NR Band n5	0.546	0.474	1.02	142.64	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, NR Band n71	0.546	0.423	0.969	142.47	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, UMTS 850	0.546	0.304	0.85	139.84	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant F, 5 GHz WIFI	0.546	0.611	1.157	174.04	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant F, NR Band n77	0.546	0.398	0.944	144.18	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant G, 2.4 GHz Bluetooth	0.546	0.182	0.728	172.26	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant G, 2.4 GHz WIFI	0.546	0.288	0.834	177.8	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant G, NR Band n41	0.546	0.24	0.786	173.06	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, LTE Band 25	0.546	0.25	0.796	167.57	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, LTE Band 41	0.546	0.215	0.761	161.5	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, LTE Band 66	0.546	0.134	0.68	167.57	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n25	0.546	0.388	0.934	170.13	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n41	0.546	0.348	0.894	162.49	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n66	0.546	0.448	0.994	168.93	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n77	0.546	0.319	0.865	146.04	0.01
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, UMTS 1750	0.546	0.278	0.824	161.14	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, UMTS 1900	0.546	0.208	0.754	166.82	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant I, 5 GHz WIFI	0.546	0.158	0.704	130	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant K, NR Band n77	0.546	0.171	0.717	164.6	0
Bottom Set: Ant A, UMTS 850	Top Set: Ant MIMO, 5 GHz WIFI	0.546	0.61	1.156	168.91	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, GSM 850	0.482	0.218	0.7	129.91	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, LTE Band 12	0.482	0.178	0.66	139.56	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, LTE Band 26	0.482	0.305	0.787	132.85	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n5	0.482	0.474	0.956	135.27	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n71	0.482	0.423	0.905	134.91	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, UMTS 850	0.482	0.304	0.786	133.18	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant F, 5 GHz WIFI	0.482	0.611	1.093	168.99	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant F, NR Band n77	0.482	0.398	0.88	139.85	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant G, 2.4 GHz Bluetooth	0.482	0.182	0.664	170.41	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant G, 2.4 GHz WIFI	0.482	0.288	0.77	176.12	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant G, NR Band n41	0.482	0.24	0.722	171.32	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, LTE Band 25	0.482	0.25	0.732	174.94	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, LTE Band 41	0.482	0.215	0.697	169.98	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n25	0.482	0.388	0.87	176.98	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n41	0.482	0.348	0.83	167.94	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n66	0.482	0.448	0.93	175.8	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n77	0.482	0.319	0.801	155.31	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, UMTS 1750	0.482	0.278	0.76	169.82	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, UMTS 1900	0.482	0.208	0.69	174.05	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant I, 5 GHz WIFI	0.482	0.158	0.64	140.6	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant K, NR Band n77	0.482	0.171	0.653	167.62	0
Bottom Set: Ant B, GSM 1900	Top Set: Ant MIMO, 5 GHz WIFI	0.482	0.61	1.092	163.71	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n5	0.287	0.474	0.761	136.94	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n71	0.287	0.423	0.71	136.62	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant F, 5 GHz WIFI	0.287	0.611	0.898	170.24	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant F, NR Band n77	0.287	0.398	0.685	140.86	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant H, NR Band n25	0.287	0.388	0.675	175.64	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant H, NR Band n41	0.287	0.348	0.635	166.89	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant H, NR Band n66	0.287	0.448	0.735	174.46	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant MIMO, 5 GHz WIFI	0.287	0.61	0.897	164.98	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant E, NR Band n5	0.297	0.474	0.771	130.65	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant E, NR Band n71	0.297	0.423	0.72	130.22	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant F, 5 GHz WIFI	0.297	0.611	0.908	165	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant F, NR Band n77	0.297	0.398	0.695	136.44	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant H, NR Band n25	0.297	0.388	0.685	177.86	0

Bottom Set: Ant B, LTE Band 41	Top Set: Ant H, NR Band n41	0.297	0.348	0.645	168.31	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant H, NR Band n66	0.297	0.448	0.745	176.71	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant MIMO, 5 GHz WIFI	0.297	0.61	0.907	159.7	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, GSM 850	0.688	0.218	0.906	127.32	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 12	0.688	0.178	0.866	136.88	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 13	0.688	0.127	0.815	131.1	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 26	0.688	0.305	0.993	130.32	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n5	0.688	0.474	1.162	132.56	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n71	0.688	0.423	1.111	132.23	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, UMTS 850	0.688	0.304	0.992	130.33	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, 5 GHz WIFI	0.688	0.611	1.299	165.94	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, 6 GHz WIFI	0.688	0.052	0.74	159.7	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, NR Band n77	0.688	0.398	1.086	136.6	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant G, 2.4 GHz Bluetooth	0.688	0.182	0.87	166.82	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant G, 2.4 GHz WIFI	0.688	0.288	0.976	172.51	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant G, NR Band n41	0.688	0.24	0.928	167.71	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, LTE Band 25	0.688	0.25	0.938	170.11	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, LTE Band 41	0.688	0.215	0.903	165.02	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, LTE Band 66	0.688	0.134	0.822	170.11	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n25	0.688	0.388	1.076	172.21	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n41	0.688	0.348	1.036	163.32	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n66	0.688	0.448	1.136	171.03	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n77	0.688	0.319	1.007	150.25	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, UMTS 1750	0.688	0.278	0.966	164.84	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, UMTS 1900	0.688	0.208	0.896	169.24	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant I, 5 GHz WIFI	0.688	0.158	0.846	135.39	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant J, 6 GHz WIFI	0.688	0.02	0.708	120.99	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant K, NR Band n77	0.688	0.171	0.859	163.32	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant MIMO, 5 GHz WIFI	0.688	0.61	1.298	160.67	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant MIMO, 6 GHz WIFI	0.688	0.059	0.747	165.8	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, GSM 850	0.524	0.218	0.742	129.5	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 12	0.524	0.178	0.702	139.19	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 13	0.524	0.127	0.651	133.4	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 26	0.524	0.305	0.829	132.41	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n5	0.524	0.474	0.998	134.91	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n71	0.524	0.423	0.947	134.53	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, UMTS 850	0.524	0.304	0.828	132.88	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant F, 5 GHz WIFI	0.524	0.611	1.135	168.77	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant F, NR Band n77	0.524	0.398	0.922	139.73	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant G, 2.4 GHz Bluetooth	0.524	0.182	0.706	170.45	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant G, 2.4 GHz WIFI	0.524	0.288	0.812	176.16	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant G, NR Band n41	0.524	0.24	0.764	171.36	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, LTE Band 25	0.524	0.25	0.774	175.7	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, LTE Band 41	0.524	0.215	0.739	170.82	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, LTE Band 66	0.524	0.134	0.658	175.7	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n25	0.524	0.388	0.912	177.69	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n41	0.524	0.348	0.872	168.56	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n66	0.524	0.448	0.972	176.52	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n77	0.524	0.319	0.843	156.23	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, UMTS 1750	0.524	0.278	0.802	170.68	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, UMTS 1900	0.524	0.208	0.732	174.8	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant I, 5 GHz WIFI	0.524	0.158	0.682	141.65	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant K, NR Band n77	0.524	0.171	0.695	168.05	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant MIMO, 5 GHz WIFI	0.524	0.61	1.134	163.48	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, GSM 850	0.606	0.218	0.824	127.24	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, LTE Band 12	0.606	0.178	0.784	136.91	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, LTE Band 13	0.606	0.127	0.733	131.13	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, LTE Band 26	0.606	0.305	0.911	130.17	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n5	0.606	0.474	1.08	132.63	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n71	0.606	0.423	1.029	132.26	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, UMTS 850	0.606	0.304	0.91	130.57	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant F, 5 GHz WIFI	0.606	0.611	1.217	166.43	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant F, 6 GHz WIFI	0.606	0.052	0.658	160.19	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant F, NR Band n77	0.606	0.398	1.004	137.36	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant G, 2.4 GHz Bluetooth	0.606	0.182	0.788	168.03	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant G, 2.4 GHz WIFI	0.606	0.288	0.894	173.75	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant G, NR Band n41	0.606	0.24	0.846	168.95	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, LTE Band 25	0.606	0.25	0.856	173.23	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, LTE Band 41	0.606	0.215	0.821	168.37	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, LTE Band 66	0.606	0.134	0.74	173.23	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n25	0.606	0.388	0.994	175.22	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n41	0.606	0.348	0.954	166.08	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n66	0.606	0.448	1.054	174.05	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n77	0.606	0.319	0.925	153.8	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, UMTS 1750	0.606	0.278	0.884	168.23	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, UMTS 1900	0.606	0.208	0.814	172.33	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant I, 5 GHz WIFI	0.606	0.158	0.764	139.24	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant J, 6 GHz WIFI	0.606	0.02	0.626	125.03	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant K, NR Band n77	0.606	0.171	0.777	165.58	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant MIMO, 5 GHz WIFI	0.606	0.61	1.216	161.15	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant MIMO, 6 GHz WIFI	0.606	0.059	0.665	166.33	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, LTE Band 26	0.387	0.305	0.692	129.62	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n5	0.387	0.474	0.861	132.01	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n71	0.387	0.423	0.81	131.66	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, UMTS 850	0.387	0.304	0.691	129.91	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant F, 5 GHz WIFI	0.387	0.611	0.998	165.71	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant F, NR Band n77	0.387	0.398	0.785	136.55	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant G, 2.4 GHz WIFI	0.387	0.288	0.675	172.82	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant G, NR Band n41	0.387	0.24	0.627	168.02	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, LTE Band 25	0.387	0.25	0.637	171.82	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n25	0.387	0.388	0.775	173.83	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n41	0.387	0.348	0.735	164.76	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n66	0.387	0.448	0.835	172.66	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n77	0.387	0.319	0.706	152.28	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, UMTS 1750	0.387	0.278	0.665	166.76	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant MIMO, 5 GHz WIFI	0.387	0.61	0.997	160.42	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, GSM 850	0.494	0.218	0.712	124.44	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, LTE Band 12	0.494	0.178	0.672	134.31	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, LTE Band 26	0.494	0.305	0.799	127.15	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n5	0.494	0.474	0.968	130.16	0.01

Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n71	0.494	0.423	0.917	129.69	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, UMTS 850	0.494	0.304	0.798	128.6	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant F, 5 GHz WiFi	0.494	0.611	1.105	164.8	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant F, NR Band n77	0.494	0.398	0.892	136.68	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant G, 2.4 GHz Bluetooth	0.494	0.182	0.676	168.32	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant G, 2.4 GHz WiFi	0.494	0.288	0.782	174.05	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant G, NR Band n41	0.494	0.24	0.734	169.28	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, LTE Band 25	0.494	0.25	0.744	178.75	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, LTE Band 41	0.494	0.215	0.709	174.56	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, LTE Band 66	0.494	0.134	0.628	178.75	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n25	0.494	0.388	0.882	180.42	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n41	0.494	0.348	0.842	170.62	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n66	0.494	0.448	0.942	179.28	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n77	0.494	0.319	0.813	160.63	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, UMTS 1750	0.494	0.278	0.772	174.53	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, UMTS 1900	0.494	0.208	0.702	177.79	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant I, 5 GHz WiFi	0.494	0.158	0.652	147.02	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant K, NR Band n77	0.494	0.171	0.665	168.75	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant MIMO, 5 GHz WiFi	0.494	0.61	1.104	159.51	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, GSM 850	0.411	0.218	0.629	127	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, LTE Band 26	0.411	0.305	0.716	129.83	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n5	0.411	0.474	0.885	132.55	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n71	0.411	0.423	0.834	132.13	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, UMTS 850	0.411	0.304	0.715	130.72	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant F, 5 GHz WiFi	0.411	0.611	1.022	166.79	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant F, NR Band n77	0.411	0.398	0.809	138.1	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant G, 2.4 GHz WiFi	0.411	0.288	0.699	174.98	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant G, NR Band n41	0.411	0.24	0.651	170.2	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, LTE Band 25	0.411	0.25	0.661	176.76	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, LTE Band 41	0.411	0.215	0.626	172.18	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n25	0.411	0.388	0.799	178.62	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n41	0.411	0.348	0.759	169.18	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n66	0.411	0.448	0.859	177.46	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n77	0.411	0.319	0.73	157.87	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, UMTS 1750	0.411	0.278	0.689	172.09	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant MIMO, 5 GHz WiFi	0.411	0.61	1.021	161.49	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, GSM 850	0.701	0.218	0.919	75.63	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 12	0.701	0.178	0.879	85.44	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 13	0.701	0.127	0.828	79.67	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 26	0.701	0.305	1.006	78.45	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n5	0.701	0.474	1.175	81.23	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n71	0.701	0.423	1.124	80.8	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, UMTS 850	0.701	0.304	1.005	79.53	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, 5 GHz WiFi	0.701	0.611	1.312	115.7	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, 6 GHz WiFi	0.701	0.052	0.753	109.5	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, NR Band n77	0.701	0.398	1.099	87.57	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, 2.4 GHz Bluetooth	0.701	0.182	0.883	119.36	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, 2.4 GHz WiFi	0.701	0.288	0.989	125.09	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, NR Band n41	0.701	0.24	0.941	120.35	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, LTE Band 25	0.701	0.25	0.951	134.53	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, LTE Band 41	0.701	0.215	0.916	131.51	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, LTE Band 66	0.701	0.134	0.835	134.53	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n25	0.701	0.388	1.089	135.71	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n41	0.701	0.348	1.049	125.13	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n66	0.701	0.448	1.149	134.63	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n77	0.701	0.319	1.02	119.06	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, UMTS 1750	0.701	0.278	0.979	131.68	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, UMTS 1900	0.701	0.208	0.909	133.49	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant I, 5 GHz WiFi	0.701	0.158	0.859	107.91	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant I, 6 GHz WiFi	0.701	0.02	0.721	96.56	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant K, NR Band n77	0.701	0.171	0.872	121.69	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant MIMO, 5 GHz WiFi	0.701	0.61	1.311	110.4	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant MIMO, 6 GHz WiFi	0.701	0.059	0.76	115.7	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, GSM 850	0.657	0.218	0.875	73.98	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 12	0.657	0.178	0.835	83.83	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 13	0.657	0.127	0.784	78.09	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 26	0.657	0.305	0.962	76.74	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, NR Band n5	0.657	0.474	1.131	79.66	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, NR Band n71	0.657	0.423	1.08	79.2	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, UMTS 850	0.657	0.304	0.961	78.1	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, 5 GHz WiFi	0.657	0.611	1.268	114.32	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, 6 GHz WiFi	0.657	0.052	0.709	108.13	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, NR Band n77	0.657	0.398	1.055	86.49	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, 2.4 GHz Bluetooth	0.657	0.182	0.839	118.46	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, 2.4 GHz WiFi	0.657	0.288	0.945	124.18	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, NR Band n41	0.657	0.24	0.897	119.45	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, LTE Band 25	0.657	0.25	0.907	134.96	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, LTE Band 41	0.657	0.215	0.872	132.13	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, LTE Band 66	0.657	0.134	0.791	134.96	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, NR Band n25	0.657	0.388	1.045	136.04	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, NR Band n41	0.657	0.348	1.005	125.34	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, NR Band n66	0.657	0.448	1.105	134.98	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, NR Band n77	0.657	0.319	0.976	119.93	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, UMTS 1750	0.657	0.278	0.935	132.33	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant H, UMTS 1900	0.657	0.208	0.865	133.91	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant I, 5 GHz WiFi	0.657	0.158	0.815	109.12	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant I, 6 GHz WiFi	0.657	0.02	0.677	98.07	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant K, NR Band n77	0.657	0.171	0.828	121.55	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant MIMO, 5 GHz WiFi	0.657	0.61	1.267	109.02	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant MIMO, 6 GHz WiFi	0.657	0.059	0.716	114.34	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, LTE Band 26	0.363	0.305	0.668	73.14	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n5	0.363	0.474	0.837	76.2	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n71	0.363	0.423	0.786	75.71	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, UMTS 850	0.363	0.304	0.667	74.78	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant F, 5 GHz WiFi	0.363	0.611	0.974	111	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant F, NR Band n77	0.363	0.398	0.761	83.51	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant G, 2.4 GHz WiFi	0.363	0.288	0.651	121.34	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n25	0.363	0.388	0.751	134.69	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n41	0.363	0.348	0.711	123.83	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n66	0.363	0.448	0.811	133.64	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n77	0.363	0.319	0.682	119.3	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, UMTS 1750	0.363	0.278	0.641	131.39	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant MIMO, 5 GHz WiFi	0.363	0.61	0.973	105.7	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, NR Band n5	0.299	0.474	0.773	73	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, NR Band n71	0.299	0.423	0.722	72.51	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant F, 5 GHz WiFi	0.299	0.611	0.91	107.82	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant F, NR Band n77	0.299	0.398	0.697	80.43	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant H, NR Band n25	0.299	0.388	0.687	132.28	0
Bottom Set: Ant C, NR Band n77	Top Set: Ant H, NR Band n41	0.299	0.348	0.647	121.35	0
Bottom Set: Ant C, NR Band n77	Top Set: Ant H, NR Band n66	0.299	0.448	0.747	131.24	0
Bottom Set: Ant C, NR Band n77	Top Set: Ant MIMO, 5 GHz WiFi	0.299	0.61	0.909	102.53	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, LTE Band 13	0.494	0.127	0.621	128.58	N/A

		Front					
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR	
Bottom Set: Ant A, GSM 850	Top Set: Ant E, LTE Band 26	0.376	0.301	0.677	153.46	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant E, NR Band n5	0.376	0.449	0.825	153.15	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant E, NR Band n71	0.376	0.431	0.807	154.66	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant F, 5 GHz WIFI	0.376	0.335	0.711	176.42	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant G, 2.4 GHz WIFI	0.376	0.44	0.816	181.59	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, LTE Band 25	0.376	0.321	0.697	171.78	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, LTE Band 66	0.376	0.336	0.712	169.79	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n25	0.376	0.455	0.831	173.39	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n41	0.376	0.344	0.72	168.73	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, NR Band n66	0.376	0.487	0.863	194.41	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant H, UMTS 1750	0.376	0.296	0.672	171.62	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant I, 5 GHz WIFI	0.376	0.353	0.729	146.13	0	
Bottom Set: Ant A, GSM 850	Top Set: Ant MIMO, 5 GHz WIFI	0.376	0.436	0.812	146.11	0.01	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, GSM 850	0.412	0.228	0.64	149.78	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, LTE Band 26	0.412	0.301	0.713	152.99	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, NR Band n5	0.412	0.449	0.861	152.88	0.01	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant E, NR Band n71	0.412	0.431	0.843	154.35	0.01	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, UMTS 850	0.412	0.248	0.66	146.45	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, 5 GHz WIFI	0.412	0.335	0.747	175.92	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant F, NR Band n77	0.412	0.244	0.656	175.74	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant G, 2.4 GHz WIFI	0.412	0.44	0.852	180.74	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant G, NR Band n41	0.412	0.223	0.635	177.15	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 25	0.412	0.321	0.733	169.37	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 41	0.412	0.248	0.66	168.58	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, LTE Band 66	0.412	0.336	0.748	167.37	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n25	0.412	0.455	0.867	170.93	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n41	0.412	0.344	0.756	166.69	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, NR Band n66	0.412	0.487	0.899	192.04	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant H, UMTS 1750	0.412	0.296	0.708	169.32	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant I, 5 GHz WIFI	0.412	0.353	0.765	143.82	0	
Bottom Set: Ant A, LTE Band 12	Top Set: Ant MIMO, 5 GHz WIFI	0.412	0.436	0.848	143.82	0.01	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, LTE Band 26	0.383	0.301	0.684	154.24	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, NR Band n5	0.383	0.449	0.832	154.18	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, NR Band n71	0.383	0.431	0.814	155.63	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant E, UMTS 850	0.383	0.248	0.631	147.8	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant F, 5 GHz WIFI	0.383	0.335	0.718	177.15	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant F, NR Band n77	0.383	0.244	0.627	176.9	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant G, 2.4 GHz WIFI	0.383	0.44	0.823	181.86	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 25	0.383	0.321	0.704	169.87	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 41	0.383	0.248	0.631	169.26	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, LTE Band 66	0.383	0.336	0.719	167.86	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n25	0.383	0.455	0.838	171.41	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n41	0.383	0.344	0.727	167.37	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, NR Band n66	0.383	0.487	0.87	192.57	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant H, UMTS 1750	0.383	0.296	0.679	169.87	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant I, 5 GHz WIFI	0.383	0.353	0.736	144.37	0	
Bottom Set: Ant A, LTE Band 13	Top Set: Ant MIMO, 5 GHz WIFI	0.383	0.436	0.819	144.39	0.01	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant E, NR Band n5	0.199	0.449	0.648	155.17	0	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant E, NR Band n71	0.199	0.431	0.63	156.62	0	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant G, 2.4 GHz WIFI	0.199	0.44	0.639	182.83	0	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n25	0.199	0.455	0.654	172.21	0	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant H, NR Band n66	0.199	0.487	0.686	193.38	0	
Bottom Set: Ant A, LTE Band 26	Top Set: Ant MIMO, 5 GHz WIFI	0.199	0.436	0.635	145.23	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, GSM 850	0.437	0.228	0.665	150.05	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, LTE Band 26	0.437	0.301	0.738	153.46	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, NR Band n5	0.437	0.449	0.886	153.15	0.01	
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, NR Band n71	0.437	0.431	0.868	154.66	0.01	
Bottom Set: Ant A, NR Band n5	Top Set: Ant E, UMTS 850	0.437	0.248	0.685	146.5	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant F, 5 GHz WIFI	0.437	0.335	0.772	176.42	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant F, NR Band n77	0.437	0.244	0.681	176.47	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, 2.4 GHz Bluetooth	0.437	0.19	0.627	181	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, 2.4 GHz WIFI	0.437	0.44	0.877	181.59	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant G, NR Band n41	0.437	0.223	0.66	178.15	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 25	0.437	0.321	0.758	171.78	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 41	0.437	0.248	0.685	170.62	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, LTE Band 66	0.437	0.336	0.773	169.79	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n25	0.437	0.455	0.892	173.39	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n41	0.437	0.344	0.781	168.73	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n66	0.437	0.487	0.924	194.41	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, NR Band n77	0.437	0.193	0.63	153.85	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, UMTS 1750	0.437	0.296	0.733	171.62	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant H, UMTS 1900	0.437	0.195	0.632	174.49	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant I, 5 GHz WIFI	0.437	0.353	0.79	146.13	0	
Bottom Set: Ant A, NR Band n5	Top Set: Ant MIMO, 5 GHz WIFI	0.437	0.436	0.873	146.11	0.01	
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, NR Band n5	0.254	0.449	0.703	151.97	0	
Bottom Set: Ant A, NR Band n71	Top Set: Ant E, NR Band n71	0.254	0.431	0.685	153.46	0	
Bottom Set: Ant A, NR Band n71	Top Set: Ant G, 2.4 GHz WIFI	0.254	0.44	0.694	180.22	0	
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n25	0.254	0.455	0.709	171.63	0	
Bottom Set: Ant A, NR Band n71	Top Set: Ant H, NR Band n66	0.254	0.487	0.741	192.66	0	
Bottom Set: Ant A, NR Band n71	Top Set: Ant MIMO, 5 GHz WIFI	0.254	0.436	0.69	144.38	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, NR Band n5	0.295	0.449	0.744	151.79	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant E, NR Band n71	0.295	0.431	0.726	153.24	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant F, 5 GHz WIFI	0.295	0.335	0.63	174.75	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant G, 2.4 GHz WIFI	0.295	0.44	0.735	179.46	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, LTE Band 66	0.295	0.336	0.631	165.74	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n25	0.295	0.455	0.75	169.29	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n41	0.295	0.344	0.639	165.13	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant H, NR Band n66	0.295	0.487	0.782	190.42	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant I, 5 GHz WIFI	0.295	0.353	0.648	142.21	0	
Bottom Set: Ant A, UMTS 850	Top Set: Ant MIMO, 5 GHz WIFI	0.295	0.436	0.731	142.22	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n5	0.279	0.449	0.728	140.11	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n71	0.279	0.431	0.71	141.93	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant G, 2.4 GHz WIFI	0.279	0.44	0.719	172.5	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n25	0.279	0.455	0.734	178.22	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant H, NR Band n66	0.279	0.487	0.766	198.01	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant I, 5 GHz WIFI	0.279	0.353	0.632	150.2	0	
Bottom Set: Ant B, GSM 1900	Top Set: Ant MIMO, 5 GHz WIFI	0.279	0.436	0.715	149.92	0	
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n5	0.201	0.449	0.65	132.11	0	
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n71	0.201	0.431	0.632	133.98	0	

Bottom Set: Ant B, LTE Band 25	Top Set: Ant G, 2.4 GHz WIFI	0.201	0.44	0.641	165.1	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant H, NR Band n25	0.201	0.455	0.656	173.97	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant H, NR Band n66	0.201	0.487	0.688	193.35	0
Bottom Set: Ant B, LTE Band 25	Top Set: Ant MIMO, 5 GHz WIFI	0.201	0.436	0.637	145.59	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant H, NR Band n25	0.171	0.455	0.626	176.01	0
Bottom Set: Ant B, LTE Band 41	Top Set: Ant H, NR Band n66	0.171	0.487	0.658	196.19	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 26	0.329	0.301	0.63	135.84	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n5	0.329	0.449	0.778	134.13	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n71	0.329	0.431	0.76	135.93	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, 5 GHz WIFI	0.329	0.335	0.664	158.66	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant G, 2.4 GHz WIFI	0.329	0.44	0.769	166.34	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, LTE Band 25	0.329	0.321	0.65	170.11	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, LTE Band 66	0.329	0.336	0.665	168.3	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n25	0.329	0.455	0.784	172.18	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n41	0.329	0.344	0.673	163.59	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, NR Band n66	0.329	0.487	0.816	191.9	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant H, UMTS 1750	0.329	0.296	0.625	168.93	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant I, 5 GHz WIFI	0.329	0.353	0.682	144.15	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant MIMO, 5 GHz WIFI	0.329	0.436	0.765	143.86	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 26	0.352	0.301	0.653	141.91	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n5	0.352	0.449	0.801	140.11	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n71	0.352	0.431	0.783	141.93	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant F, 5 GHz WIFI	0.352	0.335	0.687	164.69	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant G, 2.4 GHz WIFI	0.352	0.44	0.792	172.5	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, LTE Band 25	0.352	0.321	0.673	176.17	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, LTE Band 66	0.352	0.336	0.688	174.35	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n25	0.352	0.455	0.807	178.22	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n41	0.352	0.344	0.696	169.78	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, NR Band n66	0.352	0.487	0.839	198.01	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant H, UMTS 1750	0.352	0.296	0.648	175.04	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant I, 5 GHz WIFI	0.352	0.353	0.705	150.2	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant MIMO, 5 GHz WIFI	0.352	0.436	0.788	149.92	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n5	0.284	0.449	0.733	139.73	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n71	0.284	0.431	0.715	141.51	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant G, 2.4 GHz WIFI	0.284	0.44	0.724	171.74	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n25	0.284	0.455	0.739	176.18	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n41	0.284	0.344	0.628	168.05	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant H, NR Band n66	0.284	0.487	0.771	196.09	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant I, 5 GHz WIFI	0.284	0.353	0.637	148.19	0
Bottom Set: Ant B, NR Band n41	Top Set: Ant MIMO, 5 GHz WIFI	0.284	0.436	0.72	147.93	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n5	0.244	0.449	0.693	139.03	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n71	0.244	0.431	0.675	140.84	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant G, 2.4 GHz WIFI	0.244	0.44	0.684	171.4	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n25	0.244	0.455	0.699	177.21	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant H, NR Band n66	0.244	0.487	0.731	196.98	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant MIMO, 5 GHz WIFI	0.244	0.436	0.68	148.91	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n5	0.205	0.449	0.654	142.17	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n71	0.205	0.431	0.636	143.91	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant G, 2.4 GHz WIFI	0.205	0.44	0.645	173.63	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n25	0.205	0.455	0.66	175.96	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant H, NR Band n66	0.205	0.487	0.692	196.09	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant MIMO, 5 GHz WIFI	0.205	0.436	0.641	147.81	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n5	0.278	0.449	0.727	134.86	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n71	0.278	0.431	0.709	136.62	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant G, 2.4 GHz WIFI	0.278	0.44	0.718	166.69	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n25	0.278	0.455	0.733	171.17	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant H, NR Band n66	0.278	0.487	0.765	191.03	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant I, 5 GHz WIFI	0.278	0.353	0.631	143.16	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant MIMO, 5 GHz WIFI	0.278	0.436	0.714	142.89	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 26	0.368	0.301	0.669	89.33	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n5	0.368	0.449	0.817	86.08	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n71	0.368	0.431	0.799	88.13	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, 5 GHz WIFI	0.368	0.335	0.703	111.11	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, 2.4 GHz WIFI	0.368	0.44	0.808	121.38	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, LTE Band 25	0.368	0.321	0.689	143.86	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, LTE Band 66	0.368	0.336	0.704	142.46	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n25	0.368	0.455	0.823	146.5	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n41	0.368	0.344	0.712	132.57	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, NR Band n66	0.368	0.487	0.855	163.05	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant H, UMTS 1750	0.368	0.296	0.664	141.22	0
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant I, 5 GHz WIFI	0.368	0.353	0.721	119.65	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant MIMO, 5 GHz WIFI	0.368	0.436	0.804	118.97	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant E, GSM 850	0.444	0.228	0.672	81.98	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant E, LTE Band 26	0.444	0.301	0.745	88.03	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant E, NR Band n5	0.444	0.449	0.893	84.84	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant E, NR Band n71	0.444	0.431	0.875	86.88	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant E, UMTS 850	0.444	0.248	0.692	75.73	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant F, 5 GHz WIFI	0.444	0.335	0.779	109.87	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, NR Band n77	0.444	0.244	0.688	113.33	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant G, 2.4 GHz Bluetooth	0.444	0.19	0.634	118.8	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant G, 2.4 GHz WIFI	0.444	0.44	0.884	120.04	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant G, NR Band n41	0.444	0.223	0.667	119.09	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, LTE Band 25	0.444	0.321	0.765	142.3	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, LTE Band 41	0.444	0.248	0.692	132.6	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, LTE Band 66	0.444	0.336	0.78	140.9	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, NR Band n25	0.444	0.455	0.899	144.94	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, NR Band n41	0.444	0.344	0.788	131.02	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, NR Band n66	0.444	0.487	0.931	161.49	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, NR Band n77	0.444	0.193	0.637	125.65	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, UMTS 1750	0.444	0.296	0.74	139.66	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant H, UMTS 1900	0.444	0.195	0.639	142.23	0
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant I, 5 GHz WIFI	0.444	0.353	0.797	118.1	0.01
Bottom Set: Ant C, 2.4 GHz WIFI	Top Set: Ant MIMO, 5 GHz WIFI	0.444	0.436	0.88	117.41	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n5	0.263	0.449	0.712	81.22	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n71	0.263	0.431	0.694	83.2	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant G, 2.4 GHz WIFI	0.263	0.44	0.703	115.89	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n25	0.263	0.455	0.718	139.35	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant H, NR Band n66	0.263	0.487	0.75	156.01	0
Bottom Set: Ant C, NR Band n41	Top Set: Ant MIMO, 5 GHz WIFI	0.263	0.436	0.699	111.77	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant H, NR Band n66	0.156	0.487	0.643	152.47	0
Bottom Set: Ant A, GSM 850	Top Set: Ant E, UMTS 850	0.376	0.248	0.624	146.5	N/A

		Right				
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant A_GSM 850	Top Set: Ant H_LTE Band 25	0.239	0.408	0.647	94.82	0.01
Bottom Set: Ant A_GSM 850	Top Set: Ant H_NR Band n25	0.239	0.749	0.988	95.72	0.01
Bottom Set: Ant A_GSM 850	Top Set: Ant H_NR Band n41	0.239	0.421	0.66	106.8	0.01
Bottom Set: Ant A_GSM 850	Top Set: Ant H_NR Band n66	0.239	0.457	0.696	98.7	0.01
Bottom Set: Ant A_GSM 850	Top Set: Ant H_NR Band n77	0.239	0.548	0.787	95.6	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_LTE Band 25	0.329	0.408	0.737	92.57	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_LTE Band 41	0.329	0.299	0.628	102.63	0
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_NR Band n25	0.329	0.749	1.078	93.5	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_NR Band n41	0.329	0.421	0.75	104.61	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_NR Band n66	0.329	0.457	0.786	96.5	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_NR Band n77	0.329	0.548	0.877	93.42	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant H_UMTS 1900	0.329	0.358	0.687	96.44	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant I_5 GHz WIFI	0.329	0.316	0.645	76.53	0.01
Bottom Set: Ant A_LTE Band 12	Top Set: Ant MIMO_5 GHz WIFI	0.329	0.349	0.678	76.57	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_LTE Band 25	0.373	0.408	0.781	93.69	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_LTE Band 41	0.373	0.299	0.672	103.74	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_NR Band n25	0.373	0.749	1.122	94.61	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_NR Band n41	0.373	0.421	0.794	105.7	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_NR Band n66	0.373	0.457	0.83	97.6	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_NR Band n77	0.373	0.548	0.921	94.51	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_UMTS 1750	0.373	0.276	0.649	100.71	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant H_UMTS 1900	0.373	0.358	0.731	97.52	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant I_5 GHz WIFI	0.373	0.316	0.689	77.6	0.01
Bottom Set: Ant A_LTE Band 13	Top Set: Ant MIMO_5 GHz WIFI	0.373	0.349	0.722	77.65	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_NR Band n25	0.216	0.749	0.965	97.13	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_NR Band n41	0.216	0.421	0.637	108.28	0
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_NR Band n66	0.216	0.457	0.673	100.15	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_NR Band n77	0.216	0.548	0.764	97.12	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_LTE Band 25	0.308	0.408	0.716	95.99	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_NR Band n25	0.308	0.749	1.057	96.91	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_NR Band n41	0.308	0.421	0.729	108	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_NR Band n66	0.308	0.457	0.765	99.9	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_NR Band n77	0.308	0.548	0.856	96.81	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant H_UMTS 1900	0.308	0.358	0.666	99.82	0.01
Bottom Set: Ant A_NR Band n5	Top Set: Ant MIMO_5 GHz WIFI	0.308	0.349	0.657	79.95	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_LTE Band 25	0.262	0.408	0.67	83.64	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_NR Band n25	0.262	0.749	1.011	84.52	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_NR Band n41	0.262	0.421	0.683	95.6	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_NR Band n66	0.262	0.457	0.719	87.51	0.01
Bottom Set: Ant A_NR Band n71	Top Set: Ant H_NR Band n77	0.262	0.548	0.81	84.4	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant H_NR Band n25	0.198	0.749	0.947	92.61	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant H_NR Band n66	0.198	0.457	0.655	95.62	0.01
Bottom Set: Ant A_UMTS 850	Top Set: Ant H_NR Band n77	0.198	0.548	0.746	92.58	0.01
Bottom Set: Ant A_LTE Band 26	Top Set: Ant H_LTE Band 25	0.216	0.408	0.624	96.1	N/A

		Left				
Bottom Set Band/Antenna	Top Set Band/Antenna	Bottom Set ER	Top Set ER	Standalone Sum ER	Distance (mm)	SPLSR
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, GSM 850	0.244	0.498	0.742	88.72	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, LTE Band 12	0.244	0.568	0.812	88.7	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, LTE Band 26	0.244	0.416	0.66	88.69	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n5	0.244	0.598	0.842	87.61	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, NR Band n71	0.244	0.651	0.895	85.31	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant E, UMTS 850	0.244	0.479	0.723	85.48	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant F, 5 GHz WiFi	0.244	0.738	0.982	116.3	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant F, NR Band n77	0.244	0.696	0.94	100.4	0.01
Bottom Set: Ant B, GSM 1900	Top Set: Ant MIMO, 5 GHz WiFi	0.244	0.649	0.893	116.7	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, GSM 850	0.319	0.498	0.817	85.4	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, LTE Band 12	0.319	0.568	0.887	85.43	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, LTE Band 26	0.319	0.416	0.735	85.5	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n5	0.319	0.598	0.917	84.3	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, NR Band n71	0.319	0.651	0.97	82	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant E, UMTS 850	0.319	0.479	0.798	83.11	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant F, 5 GHz WiFi	0.319	0.738	1.057	113.03	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant F, NR Band n77	0.319	0.696	1.015	97.1	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant G, 2.4 GHz WiFi	0.319	0.32	0.639	85.4	0.01
Bottom Set: Ant B, LTE Band 25	Top Set: Ant MIMO, 5 GHz WiFi	0.319	0.649	0.968	113.4	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant E, LTE Band 12	0.096	0.568	0.664	77.81	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant E, NR Band n5	0.096	0.598	0.694	76.77	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant E, NR Band n71	0.096	0.651	0.747	74.48	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant F, 5 GHz WiFi	0.096	0.738	0.834	105.41	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant F, NR Band n77	0.096	0.696	0.792	89.55	0.01
Bottom Set: Ant B, LTE Band 41	Top Set: Ant MIMO, 5 GHz WiFi	0.096	0.649	0.745	105.84	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, GSM 850	0.226	0.498	0.724	113.71	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 12	0.226	0.568	0.794	113.76	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, LTE Band 26	0.226	0.416	0.642	113.83	0
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n5	0.226	0.598	0.824	112.62	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, NR Band n71	0.226	0.651	0.877	110.32	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant E, UMTS 850	0.226	0.479	0.705	111.4	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, 5 GHz WiFi	0.226	0.738	0.964	141.36	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant F, NR Band n77	0.226	0.696	0.922	125.42	0.01
Bottom Set: Ant B, LTE Band 66	Top Set: Ant MIMO, 5 GHz WiFi	0.226	0.649	0.875	141.72	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, GSM 850	0.224	0.498	0.722	120.41	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 12	0.224	0.568	0.792	120.41	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, LTE Band 26	0.224	0.416	0.64	120.38	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n5	0.224	0.598	0.822	119.3	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, NR Band n71	0.224	0.651	0.875	117	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant E, UMTS 850	0.224	0.479	0.703	118.13	0
Bottom Set: Ant B, NR Band n25	Top Set: Ant F, 5 GHz WiFi	0.224	0.738	0.962	148.01	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant F, NR Band n77	0.224	0.696	0.92	132.1	0.01
Bottom Set: Ant B, NR Band n25	Top Set: Ant MIMO, 5 GHz WiFi	0.224	0.649	0.873	148.4	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, GSM 850	0.15	0.498	0.648	77.5	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, LTE Band 12	0.15	0.568	0.718	77.53	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n5	0.15	0.598	0.748	76.4	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, NR Band n71	0.15	0.651	0.801	74.1	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant E, UMTS 850	0.15	0.479	0.629	75.22	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant F, 5 GHz WiFi	0.15	0.738	0.888	105.13	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant F, NR Band n77	0.15	0.696	0.846	89.2	0.01
Bottom Set: Ant B, NR Band n41	Top Set: Ant MIMO, 5 GHz WiFi	0.15	0.649	0.799	105.5	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, GSM 850	0.236	0.498	0.734	108.4	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, LTE Band 12	0.236	0.568	0.804	108.43	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, LTE Band 26	0.236	0.416	0.652	108.46	0
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n5	0.236	0.598	0.834	107.3	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, NR Band n71	0.236	0.651	0.887	105	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant E, UMTS 850	0.236	0.479	0.715	106.11	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant F, 5 GHz WiFi	0.236	0.738	0.974	136.03	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant F, NR Band n77	0.236	0.696	0.932	120.1	0.01
Bottom Set: Ant B, NR Band n66	Top Set: Ant MIMO, 5 GHz WiFi	0.236	0.649	0.885	136.4	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, GSM 850	0.141	0.498	0.639	112.8	0
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, LTE Band 12	0.141	0.568	0.709	112.65	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n5	0.141	0.598	0.759	111.67	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, NR Band n71	0.141	0.651	0.792	109.38	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant F, 5 GHz WiFi	0.141	0.738	0.879	140.21	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant F, NR Band n77	0.141	0.696	0.837	124.41	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant MIMO, 5 GHz WiFi	0.141	0.649	0.79	140.68	0
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, GSM 850	0.33	0.498	0.828	84.46	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, LTE Band 12	0.33	0.568	0.898	84.35	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, LTE Band 26	0.33	0.416	0.746	84.2	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n5	0.33	0.598	0.928	83.33	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, NR Band n71	0.33	0.651	0.981	81.04	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant E, UMTS 850	0.33	0.479	0.809	81.27	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant F, 5 GHz WiFi	0.33	0.738	1.068	111.93	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant F, NR Band n77	0.33	0.696	1.026	96.1	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant G, 2.4 GHz WiFi	0.33	0.32	0.65	84.46	0.01
Bottom Set: Ant B, UMTS 1900	Top Set: Ant MIMO, 5 GHz WiFi	0.33	0.649	0.979	112.38	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, GSM 850	0.682	0.498	1.18	76.12	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 12	0.682	0.568	1.25	76.28	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 13	0.682	0.262	0.944	76.12	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, LTE Band 26	0.682	0.416	1.098	76.56	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n5	0.682	0.598	1.28	75.05	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, NR Band n71	0.682	0.651	1.333	72.75	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant E, UMTS 850	0.682	0.479	1.161	71.75	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, 5 GHz WiFi	0.682	0.738	1.42	103.83	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, 6 GHz WiFi	0.682	0.091	0.773	112.81	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant F, NR Band n77	0.682	0.696	1.378	87.85	0.02
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, 2.4 GHz Bluetooth	0.682	0.163	0.845	72.5	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, 2.4 GHz WiFi	0.682	0.32	1.002	76.11	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant G, NR Band n41	0.682	0.068	0.75	70.84	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant MIMO, 5 GHz WiFi	0.682	0.649	1.331	104.13	0.01
Bottom Set: Ant C, 2.4 GHz Bluetooth	Top Set: Ant MIMO, 6 GHz WiFi	0.682	0.056	0.738	107.96	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, GSM 850	0.723	0.498	1.221	76.16	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 12	0.723	0.568	1.291	76.28	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 13	0.723	0.262	0.985	76.16	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, LTE Band 26	0.723	0.416	1.139	76.5	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, NR Band n5	0.723	0.598	1.321	75.08	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, NR Band n71	0.723	0.651	1.374	72.77	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant E, UMTS 850	0.723	0.479	1.202	73.82	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, 5 GHz WiFi	0.723	0.738	1.461	103.85	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, 6 GHz WiFi	0.723	0.091	0.814	112.84	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant F, NR Band n77	0.723	0.696	1.419	87.88	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, 2.4 GHz Bluetooth	0.723	0.163	0.886	72.6	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, 2.4 GHz WiFi	0.723	0.32	1.043	76.16	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant G, NR Band n41	0.723	0.068	0.791	70.82	0.01
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant MIMO, 5 GHz WiFi	0.723	0.649	1.372	104.17	0.02
Bottom Set: Ant C, 2.4 GHz WiFi	Top Set: Ant MIMO, 6 GHz WiFi	0.723	0.056	0.779	107.99	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, GSM 850	0.317	0.498	0.815	70.81	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, LTE Band 12	0.317	0.568	0.885	70.81	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, LTE Band 26	0.317	0.416	0.733	70.84	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n5	0.317	0.598	0.915	69.7	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, NR Band n71	0.317	0.651	0.968	67.41	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant E, UMTS 850	0.317	0.479	0.796	68.55	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant F, 5 GHz WiFi	0.317	0.738	1.055	98.43	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant F, NR Band n77	0.317	0.696	1.013	82.5	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant G, 2.4 GHz WiFi	0.317	0.32	0.637	70.81	0.01
Bottom Set: Ant C, NR Band n41	Top Set: Ant MIMO, 5 GHz WiFi	0.317	0.649	0.966	98.8	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, GSM 850	0.368	0.498	0.866	68.75	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, LTE Band 12	0.368	0.568	0.936	68.7	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, LTE Band 13	0.368	0.262	0.963	68.75	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, LTE Band 26	0.368	0.416	0.784	68.68	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, NR Band n5	0.368	0.598	0.966	67.63	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, NR Band n71	0.368	0.651	1.019	65.33	0.02
Bottom Set: Ant C, NR Band n77	Top Set: Ant E, UMTS 850	0.368	0.479	0.847	66.51	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant F, 5 GHz WiFi	0.368	0.738	1.106	96.1	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant F, NR Band n77	0.368	0.696	1.064	80.42	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant G, 2.4 GHz WiFi	0.368	0.32	0.688	68.75	0.01
Bottom Set: Ant C, NR Band n77	Top Set: Ant MIMO, 5 GHz WiFi	0.368	0.649	1.017	96.71	0.01
Bottom Set: Ant B, UMTS 1750	Top Set: Ant E, UMTS 850	0.141	0.479	0.62	110.62	N/A

Body (Bottom Set + NFC + WPT)	Configuration	Bottom Set Ratio to Limit	NFC + WPT Ratio to Limit	Bottom Set + NFC + WPT Ratio to Limit
	Back	0.714	0.012	0.726
	Front	0.444	0.000	0.444
	Top	-	0.001	0.001
	Bottom	0.753	0.000	0.753
	Right	0.373	0.000	0.373
	Left	0.723	0.000	0.723

Body (Top Set + NFC + WPT)	Configuration	Top Set Ratio to Limit	NFC + WPT Ratio to Limit	Top Set + NFC + WPT Ratio to Limit
	Back	0.611	0.012	0.623
	Front	0.487	0.000	0.487
	Top	0.496	0.001	0.497
	Bottom	-	0.000	0.000
	Right	0.749	0.000	0.749
	Left	0.738	0.000	0.738

Note: Please refer to the WPT report (SN: 1M2603110020-25.A3L) for the WPT exposure ratio values.

Notes:

1. For all combinations where the sum of Top/Bottom Set + NFC + WPT is less than 1.6 W/kg, there's no further analysis required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.02 per FCC KDB 447498 D04v01. Please see the Highest Report SAR and Hotspot Location Section for Y-axis peak locations.
3. The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed."
4. Since either the sum of all AG combinations is less than or equal to 1W/kg or SPLSR is less or equal to 0.02, the AGs are considered fully uncoupled and no further analysis is needed.



E.6 Closed Body (RSI = 3/4) SAR Antenna Group Analysis

Table E-7
RSI=3/4 Closed Body AG0 Highest Reported Ratio to Limit

AG0 Ratio to Limit												
	Configuration	A	B	C	E	F	G	H	I	K	MIMO	Max
Body	Back	0.729	0.748	0.644	0.131	0.054	0.103	0.095	0.085	0.012	0.451	0.748
	Front	0.094	0.292	0.070	0.423	0.577	0.215	0.291	0.129	0.128	0.509	0.577
	Top	-	-	0.023	0.026	-	-	-	0.031	-	0.029	0.031
	Bottom	0.485	0.744	0.099	0.039	0.272	0.329	0.300	0.068	0.090	0.607	0.744
	Right	0.281	-	-	-	-	-	0.560	0.423	0.006	0.418	0.560
	Left	0.011	0.216	0.709	0.428	0.704	0.223	-	-	-	0.669	0.709

Table E-8
RSI=3/4 Closed Body AG Verification

Body	Configuration	AG0 Ratio to Limit	NFC + WPT Ratio to Limit	AG0 + NFC + WPT Ratio to Limit
	Back	0.748	0.013	0.761
	Front	0.577	0.000	0.577
	Top	0.031	0.000	0.031
	Bottom	0.744	0.000	0.744
	Right	0.560	0.000	0.560
	Left	0.709	0.000	0.709

Note: Please refer to the WPT report (SN: 1M2603110020-25.A3L) for the WPT exposure ratio values.

Notes:

- For all combinations where the TER of AG0 + NFC + WPT is less than 1, there's no further analysis required for compliance demonstration.



E.7 Highest Report SAR and SAR Hotspot Locations

As a conservative assessment, the distances between Bottom Set and Top Set were determined using the coordinates of the peak locations only (assumes 0 mm separation on z-axis for RSI=0)

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo. 	APPENDIX E: Page 19 of 29

Table E-9
RSI=1 Right Cheek Peak X, Y, Z Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord	Z-Coord
Bottom Set	A	GSM 850	0.064	55.4	-249.6	-169.0
Top Set	E	GSM 850	0.275	53.0	-326.6	-168.8
Bottom Set	B	GSM 1900	0.032	56.8	-243.2	-167.9
Bottom Set	A	UMTS 850	0.116	61.9	-250.8	-172.3
Top Set	E	UMTS 850	0.489	53.6	-329.7	-168.3
Bottom Set	B	UMTS 1750	0.043	54.6	-249.7	-169.2
Top Set	H	UMTS 1750	0.099	20.9	-270.9	-166.9
Bottom Set	B	UMTS 1900	0.031	64.3	-308.1	-168.5
Top Set	H	UMTS 1900	0.103	-5.0	-285.0	-162.8
Bottom Set	A	LTE Band 12	0.135	57.0	-259.1	-170.9
Top Set	E	LTE Band 12	0.276	48.0	-329.7	-169.9
Bottom Set	A	LTE Band 13	0.139	56.8	-254.8	-170.4
Top Set	E	LTE Band 13	0.218	49.8	-332.4	-169.3
Bottom Set	A	LTE Band 26	0.178	56.7	-247.9	-168.6
Top Set	E	LTE Band 26	0.421	49.6	-328.3	-169.1
Bottom Set	B	LTE Band 66	0.054	57.2	-249.2	-168.7
Top Set	H	LTE Band 66	0.074	20.2	-266.4	-166.0
Bottom Set	B	LTE Band 25	0.053	56.9	-247.3	-172.5
Top Set	H	LTE Band 25	0.078	20.2	-266.4	-166.0
Bottom Set	B	LTE Band 41	0.008	67.1	-238.3	-164.0
Top Set	H	LTE Band 41	0.097	33.3	-269.3	-171.6
Bottom Set	A	NR Band n71	0.108	60.2	-264.0	-169.6
Top Set	E	NR Band n71	0.412	48.5	-330.4	-169.0
Bottom Set	A	NR Band n5	0.263	57.9	-250.9	-168.7
Top Set	E	NR Band n5	0.613	55.8	-328.4	-168.1
Bottom Set	B	NR Band n66	0.084	55.2	-252.6	-169.4
Top Set	H	NR Band n66	0.128	25.4	-264.5	-167.2
Bottom Set	B	NR Band n25	0.068	62.3	-245.9	-167.0
Top Set	H	NR Band n25	0.094	21.0	-269.5	-166.7
Bottom Set	B	NR Band n41	0.005	53.0	-244.6	-168.8
Bottom Set	C	NR Band n41	0.034	71.2	-303.0	-166.8
Top Set	G	NR Band n41	0.399	11.5	-328.9	-168.8
Top Set	H	NR Band n41	0.128	35.6	-269.0	-170.0
Bottom Set	C	NR Band n77	0.006	71.9	-304.7	-166.4
Top Set	F	NR Band n77	0.478	27.8	-334.3	-169.4
Top Set	H	NR Band n77	0.128	38.1	-246.2	-167.6
Top Set	K	NR Band n77	0.083	8.1	-301.6	-167.8
Bottom Set	C	2.4 GHz WIFI	0.015	61.8	-305.1	-169.4
Top Set	G	2.4 GHz WIFI	0.704	11.3	-328.2	-168.8
Top Set	F	5 GHz WIFI	0.424	26.1	-339.0	-169.0
Top Set	I	5 GHz WIFI	0.107	40.8	-244.4	-168.7
Top Set	MIMO	5 GHz WIFI	0.459	25.2	-337.6	-169.1
Top Set	F	6 GHz WIFI	0.281	27.0	-334.6	-169.4
Top Set	I	6 GHz WIFI	0.108	37.6	-245.1	-167.2
Top Set	MIMO	6 GHz WIFI	0.216	42.9	-244.9	-168.7
Bottom Set	C	2.4 GHz Bluetooth	0.019	59.8	-305.5	-169.8
Top Set	G	2.4 GHz Bluetooth	0.530	11.9	-329.7	-168.8

Table E-10
RSI=1 Right Tilt Peak X, Y, Z Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord	Z-Coord
Bottom Set	A	GSM 850	0.029	40.4	-272.5	-171.0
Top Set	E	GSM 850	0.081	38.2	-330.8	-169.7
Bottom Set	B	GSM 1900	0.022	38.2	-318.2	-170.9
Bottom Set	A	UMTS 850	0.079	55.3	-256.9	-174.0
Top Set	E	UMTS 850	0.132	40.0	-332.5	-169.4
Bottom Set	B	UMTS 1750	0.022	48.4	-255.5	-170.4
Top Set	H	UMTS 1750	0.071	-5.2	-295.6	-164.6
Bottom Set	B	UMTS 1900	0.034	32.7	-323.4	-170.4
Top Set	H	UMTS 1900	0.086	-12.6	-292.3	-162.2
Bottom Set	A	LTE Band 12	0.064	35.6	-279.9	-174.4
Top Set	E	LTE Band 12	0.098	37.2	-331.5	-170.0
Bottom Set	A	LTE Band 13	0.064	40.4	-272.6	-171.8
Top Set	E	LTE Band 13	0.078	38.5	-333.0	-169.9
Bottom Set	A	LTE Band 26	0.073	44.3	-262.8	-171.9
Top Set	E	LTE Band 26	0.112	34.5	-329.9	-169.9
Bottom Set	B	LTE Band 66	0.044	14.5	-304.8	-168.9
Top Set	H	LTE Band 66	0.062	-6.9	-286.7	-162.6
Bottom Set	B	LTE Band 25	0.031	34.7	-320.6	-170.6
Top Set	H	LTE Band 25	0.073	-6.7	-288.3	-163.0
Bottom Set	B	LTE Band 41	0.004	31.3	-324.5	-170.3
Top Set	H	LTE Band 41	0.048	-1.8	-293.3	-165.0
Bottom Set	A	NR Band n71	0.049	47.9	-278.2	-171.7
Top Set	E	NR Band n71	0.133	37.5	-332.7	-169.9
Bottom Set	A	NR Band n5	0.118	42.1	-277.6	-171.4
Top Set	E	NR Band n5	0.178	41.2	-331.9	-169.4
Bottom Set	B	NR Band n66	0.036	12.4	-304.9	-168.6
Top Set	H	NR Band n66	0.086	-4.7	-289.3	-163.7
Bottom Set	B	NR Band n25	0.028	37.5	-321.2	-170.6
Top Set	H	NR Band n25	0.075	-4.3	-291.8	-164.2
Bottom Set	B	NR Band n41	0.006	33.5	-324.6	-170.3
Bottom Set	C	NR Band n41	0.028	33.2	-324.5	-170.3
Top Set	G	NR Band n41	0.396	12.3	-327.9	-168.9
Top Set	H	NR Band n41	0.076	-1.2	-296.0	-165.5
Bottom Set	C	NR Band n77	0.000	0.6	-285.5	-164.4
Top Set	F	NR Band n77	0.177	21.6	-332.5	-169.3
Top Set	H	NR Band n77	0.046	1.1	-289.5	-165.1
Top Set	K	NR Band n77	0.087	5.1	-314.8	-168.1
Bottom Set	C	2.4 GHz WIFI	0.010	26.2	-324.7	-170.0
Top Set	G	2.4 GHz WIFI	0.609	10.0	-327.5	-168.7
Top Set	F	5 GHz WIFI	0.350	13.6	-327.2	-169.1
Top Set	I	5 GHz WIFI	0.016	20.3	-265.7	-165.9
Top Set	MIMO	5 GHz WIFI	0.359	14.2	-326.4	-169.1
Top Set	F	6 GHz WIFI	0.118	21.9	-337.3	-169.0
Top Set	I	6 GHz WIFI	0.004	43.5	-238.8	-167.7
Top Set	MIMO	6 GHz WIFI	0.253	29.5	-336.0	-169.3
Bottom Set	C	2.4 GHz Bluetooth	0.011	25.8	-321.5	-170.1
Top Set	G	2.4 GHz Bluetooth	0.486	11.0	-329.7	-168.7

Table E-11
RSI=1 Left Cheek Peak X, Y, Z Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord	Z-Coord
Bottom Set	A	GSM 850	0.025	63.3	295.8	-169.5
Top Set	E	GSM 850	0.123	23.7	251.3	-165.7
Bottom Set	B	GSM 1900	0.038	54.9	247.5	-168.9
Bottom Set	A	UMTS 850	0.076	67.0	291.1	-173.1
Top Set	E	UMTS 850	0.187	18.4	252.2	-163.1
Bottom Set	B	UMTS 1750	0.036	52.6	247.0	-169.6
Top Set	H	UMTS 1750	0.467	36.7	336.5	-169.1
Bottom Set	B	UMTS 1900	0.065	73.5	215.5	-154.7
Top Set	H	UMTS 1900	0.337	33.6	340.2	-168.8
Bottom Set	A	LTE Band 12	0.100	62.4	282.3	-170.2
Top Set	E	LTE Band 12	0.124	7.0	269.1	-162.7
Bottom Set	A	LTE Band 13	0.093	62.2	289.1	-169.9
Top Set	E	LTE Band 13	0.095	7.6	265.7	-162.2
Bottom Set	A	LTE Band 26	0.104	64.2	296.2	-169.3
Top Set	E	LTE Band 26	0.184	20.9	253.7	-165.3
Bottom Set	B	LTE Band 66	0.051	55.6	246.1	-172.2
Top Set	H	LTE Band 66	0.292	31.6	337.8	-169.1
Bottom Set	B	LTE Band 25	0.058	55.4	249.6	-169.0
Top Set	H	LTE Band 25	0.346	28.6	339.6	-168.9
Bottom Set	B	LTE Band 41	0.013	74.4	217.8	-154.6
Top Set	H	LTE Band 41	0.272	24.4	335.9	-169.2
Bottom Set	A	NR Band n71	0.076	60.7	280.8	-170.2
Top Set	E	NR Band n71	0.159	4.7	271.7	-162.6
Bottom Set	A	NR Band n5	0.161	63.5	293.2	-169.5
Top Set	E	NR Band n5	0.235	12.3	263.8	-164.2
Bottom Set	B	NR Band n66	0.073	54.6	249.8	-169.2
Top Set	H	NR Band n66	0.571	34.0	334.3	-169.4
Bottom Set	B	NR Band n25	0.054	57.9	248.9	-168.5
Top Set	H	NR Band n25	0.428	31.1	338.7	-169.0
Bottom Set	B	NR Band n41	0.023	70.9	221.3	-156.9
Bottom Set	C	NR Band n41	0.112	52.7	248.0	-169.3
Top Set	G	NR Band n41	0.191	-2.8	295.2	-165.0
Top Set	H	NR Band n41	0.419	31.7	334.3	-169.5
Bottom Set	C	NR Band n77	0.020	54.1	243.0	-169.7
Top Set	F	NR Band n77	0.105	36.7	258.4	-169.4
Top Set	H	NR Band n77	0.289	46.0	330.3	-169.2
Top Set	K	NR Band n77	0.148	14.9	314.1	-169.3
Bottom Set	C	2.4 GHz WIFI	0.038	75.0	217.3	-154.8
Top Set	G	2.4 GHz WIFI	0.277	-6.4	296.4	-164.4
Top Set	F	5 GHz WIFI	0.139	-6.7	295.0	-164.1
Top Set	I	5 GHz WIFI	0.646	46.2	320.9	-170.4
Top Set	MIMO	5 GHz WIFI	0.481	46.2	320.9	-170.4
Top Set	F	6 GHz WIFI	0.049	-6.2	297.8	-164.7
Top Set	I	6 GHz WIFI	0.551	46.8	317.5	-170.7
Top Set	MIMO	6 GHz WIFI	0.403	47.0	319.3	-170.5
Bottom Set	C	2.4 GHz Bluetooth	0.042	75.2	219.8	-155.5
Top Set	G	2.4 GHz Bluetooth	0.263	-6.2	297.8	-164.7

Table E-12
RSI=1 Left Tilt ER

Antenna Group	Antenna	Mode/Band	Ratio to Limit
Bottom Set	A	GSM 850	0.016
Top Set	E	GSM 850	0.047
Bottom Set	B	GSM 1900	0.022
Bottom Set	A	UMTS 850	0.046
Top Set	E	UMTS 850	0.074
Bottom Set	B	UMTS 1750	0.023
Top Set	H	UMTS 1750	0.172
Bottom Set	B	UMTS 1900	0.030
Top Set	H	UMTS 1900	0.303
Bottom Set	A	LTE Band 12	0.071
Top Set	E	LTE Band 12	0.054
Bottom Set	A	LTE Band 13	0.072
Top Set	E	LTE Band 13	0.045
Bottom Set	A	LTE Band 26	0.061
Top Set	E	LTE Band 26	0.074
Bottom Set	B	LTE Band 66	0.031
Top Set	H	LTE Band 66	0.201
Bottom Set	B	LTE Band 25	0.023
Top Set	H	LTE Band 25	0.235
Bottom Set	B	LTE Band 41	0.004
Top Set	H	LTE Band 41	0.147
Bottom Set	A	NR Band n71	0.039
Top Set	E	NR Band n71	0.073
Bottom Set	A	NR Band n5	0.094
Top Set	E	NR Band n5	0.106
Bottom Set	B	NR Band n66	0.035
Top Set	H	NR Band n66	0.443
Bottom Set	B	NR Band n25	0.022
Top Set	H	NR Band n25	0.256
Bottom Set	B	NR Band n41	0.001
Bottom Set	C	NR Band n41	0.018
Top Set	G	NR Band n41	0.177
Top Set	H	NR Band n41	0.246
Bottom Set	C	NR Band n77	0.003
Top Set	F	NR Band n77	0.048
Top Set	H	NR Band n77	0.110
Top Set	K	NR Band n77	0.107
Bottom Set	C	2.4 GHz WIFI	0.009
Top Set	G	2.4 GHz WIFI	0.266
Top Set	F	5 GHz WIFI	0.164
Top Set	I	5 GHz WIFI	0.059
Top Set	MIMO	5 GHz WIFI	0.188
Top Set	F	6 GHz WIFI	0.040
Top Set	I	6 GHz WIFI	0.021
Top Set	MIMO	6 GHz WIFI	0.077
Bottom Set	C	2.4 GHz Bluetooth	0.011
Top Set	G	2.4 GHz Bluetooth	0.226

Table E-13
RSI=0/2 Body Back Side Peak X, Y Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord
Bottom Set	A	GSM 850	0.714	-12.7	87.4
Top Set	E	GSM 850	0.218	-69.6	-41.1
Bottom Set	B	GSM 1900	0.482	-45.2	86.5
Bottom Set	A	UMTS 850	0.546	-16.3	86.2
Top Set	E	UMTS 850	0.304	-63.6	-45.4
Bottom Set	B	UMTS 1750	0.494	-63.7	83.2
Top Set	H	UMTS 1750	0.278	17.3	-71.4
Bottom Set	B	UMTS 1900	0.411	-54.5	85.0
Top Set	H	UMTS 1900	0.208	10.2	-78.5
Bottom Set	A	LTE Band 12	0.666	-15.4	88.1
Top Set	E	LTE Band 12	0.178	-69.1	-51.0
Bottom Set	A	LTE Band 13	0.680	-11.7	89.4
Top Set	E	LTE Band 13	0.127	-68.1	-45.3
Bottom Set	A	LTE Band 26	0.309	-15.5	89.2
Top Set	E	LTE Band 26	0.305	-71.6	-43.7
Bottom Set	B	LTE Band 66	0.688	-40.7	82.9
Top Set	H	LTE Band 66	0.134	11.2	-79.1
Bottom Set	B	LTE Band 25	0.287	-38.9	87.0
Top Set	H	LTE Band 25	0.250	11.2	-79.1
Bottom Set	B	LTE Band 41	0.297	-56.8	83.3
Top Set	H	LTE Band 41	0.215	16.2	-72.0
Bottom Set	A	NR Band n71	0.468	-14.0	87.7
Top Set	E	NR Band n71	0.423	-68.4	-46.4
Bottom Set	A	NR Band n5	0.691	-13.0	89.7
Top Set	E	NR Band n5	0.474	-67.6	-46.9
Bottom Set	B	NR Band n66	0.387	-45.2	83.2
Top Set	H	NR Band n66	0.448	8.5	-80.9
Bottom Set	B	NR Band n25	0.524	-47.5	86.5
Top Set	H	NR Band n25	0.388	8.6	-82.1
Bottom Set	B	NR Band n41	0.606	-46.9	84.1
Bottom Set	C	NR Band n41	0.363	-67.1	29.3
Top Set	G	NR Band n41	0.240	-42.9	-84.8
Top Set	H	NR Band n41	0.348	-1.3	-75.6
Bottom Set	C	NR Band n77	0.299	-67.5	26.1
Top Set	F	NR Band n77	0.398	-53.5	-53.1
Top Set	H	NR Band n77	0.319	16.1	-56.2
Top Set	K	NR Band n77	0.171	-15.1	-78.4
Bottom Set	C	2.4 GHz WIFI	0.657	-64.4	32.7
Top Set	G	2.4 GHz WIFI	0.288	-42.9	-89.6
Top Set	F	5 GHz WIFI	0.611	-62.5	-81.6
Top Set	I	5 GHz WIFI	0.158	17.6	-39.3
Top Set	MIMO	5 GHz WIFI	0.610	-62.4	-76.3
Top Set	F	6 GHz WIFI	0.052	-61.8	-75.4
Top Set	I	6 GHz WIFI	0.020	15.4	-24.3
Top Set	MIMO	6 GHz WIFI	0.059	-61.4	-81.6
Bottom Set	C	2.4 GHz Bluetooth	0.701	-61.5	34.1
Top Set	G	2.4 GHz Bluetooth	0.182	-43.5	-83.9
NFC	NFC	NFC	0.012	27.2	26.0

Table E-14
RSI=0/2 Body Front Side Peak X, Y Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord
Bottom Set	A	GSM 850	0.376	-34.3	93.5
Top Set	E	GSM 850	0.228	17.3	-47.4
Bottom Set	B	GSM 1900	0.279	-2.8	88.2
Bottom Set	A	UMTS 850	0.295	-38.8	90.3
Top Set	E	UMTS 850	0.248	23.3	-41.2
Bottom Set	B	UMTS 1750	0.205	-10.5	88.9
Top Set	H	UMTS 1750	0.296	-65.3	-75.3
Bottom Set	B	UMTS 1900	0.278	-6.7	82.2
Top Set	H	UMTS 1900	0.195	-65.9	-78.1
Bottom Set	A	LTE Band 12	0.412	-38.0	91.8
Top Set	E	LTE Band 12	0.154	17.3	-56.1
Bottom Set	A	LTE Band 13	0.383	-39.5	92.6
Top Set	E	LTE Band 13	0.135	17.8	-51.3
Bottom Set	A	LTE Band 26	0.199	-39.9	93.5
Top Set	E	LTE Band 26	0.301	11.4	-53.0
Bottom Set	B	LTE Band 66	0.329	-3.7	82.0
Top Set	H	LTE Band 66	0.336	-70.9	-72.3
Bottom Set	B	LTE Band 25	0.201	2.9	80.9
Top Set	H	LTE Band 25	0.321	-70.6	-74.4
Bottom Set	B	LTE Band 41	0.171	-11.7	89.4
Top Set	H	LTE Band 41	0.248	-52.0	-76.2
Bottom Set	A	NR Band n71	0.254	-35.2	91.9
Top Set	E	NR Band n71	0.431	17.3	-52.3
Bottom Set	A	NR Band n5	0.437	-34.3	93.5
Top Set	E	NR Band n5	0.449	18.4	-50.3
Bottom Set	B	NR Band n66	0.244	-2.8	87.1
Top Set	H	NR Band n66	0.487	-72.6	-97.1
Bottom Set	B	NR Band n25	0.352	-2.8	88.2
Top Set	H	NR Band n25	0.455	-73.5	-75.4
Bottom Set	B	NR Band n41	0.284	-5.9	87.3
Bottom Set	C	NR Band n41	0.263	16.6	30.9
Top Set	G	NR Band n41	0.223	-3.7	-82.0
Top Set	H	NR Band n41	0.344	-52.0	-74.3
Bottom Set	C	NR Band n77	0.156	13.7	28.6
Top Set	F	NR Band n77	0.244	7.3	-78.0
Top Set	H	NR Band n77	0.193	-64.8	-57.3
Top Set	K	NR Band n77	0.112	-19.0	-86.8
Bottom Set	C	2.4 GHz WIFI	0.444	21.0	34.5
Top Set	G	2.4 GHz WIFI	0.440	3.1	-84.2
Top Set	F	5 GHz WIFI	0.335	17.0	-75.3
Top Set	I	5 GHz WIFI	0.353	-61.4	-50.1
Top Set	MIMO	5 GHz WIFI	0.436	-60.2	-50.3
Top Set	F	6 GHz WIFI	0.042	11.1	-77.8
Top Set	I	6 GHz WIFI	0.032	-65.1	-18.6
Top Set	MIMO	6 GHz WIFI	0.036	-49.6	-70.2
Bottom Set	C	2.4 GHz Bluetooth	0.368	22.0	35.7
Top Set	G	2.4 GHz Bluetooth	0.190	4.9	-83.2
NFC	NFC	NFC	0.000	33.3	35.1

Table E-15
RSI=0/2 Body Right Edge Peak X, Y Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord
Bottom Set	A	GSM 850	0.239	-25.6	37.1
Bottom Set	A	UMTS 850	0.198	-28.6	34.0
Top Set	H	UMTS 1750	0.276	-24.5	-64.7
Top Set	H	UMTS 1900	0.358	-24.0	-61.5
Bottom Set	A	LTE Band 12	0.329	-26.7	34.9
Bottom Set	A	LTE Band 13	0.373	-26.2	36.0
Bottom Set	A	LTE Band 26	0.216	-29.7	38.5
Top Set	H	LTE Band 66	0.168	-27.2	-60.6
Top Set	H	LTE Band 25	0.408	-30.3	-57.6
Top Set	H	LTE Band 41	0.299	-29.0	-67.7
Bottom Set	A	NR Band n71	0.262	-25.4	25.9
Bottom Set	A	NR Band n5	0.308	-26.2	38.3
Top Set	H	NR Band n66	0.457	-26.5	-61.6
Top Set	H	NR Band n25	0.749	-27.3	-58.6
Top Set	H	NR Band n41	0.421	-25.6	-69.7
Top Set	H	NR Band n77	0.548	-24.8	-58.5
Top Set	K	NR Band n77	0.004	-50.9	-95.9
Top Set	I	5 GHz WIFI	0.316	-22.2	-41.5
Top Set	MIMO	5 GHz WIFI	0.349	-23.4	-41.6
Top Set	I	6 GHz WIFI	0.033	-23.9	-50.3
Top Set	MIMO	6 GHz WIFI	0.089	-26.1	-48.2
NFC	NFC	NFC	0.000	-18.9	21.5

Table E-16
RSI=0/2 Body Left Edge Peak X, Y Coordinates

Antenna Group	Antenna	Mode/Band	Ratio to Limit	X-Coord	Y-Coord
Top Set	E	GSM 850	0.498	-24.1	-42.7
Bottom Set	B	GSM 1900	0.244	-26.0	46.0
Top Set	E	UMTS 850	0.479	-22.7	-40.4
Bottom Set	B	UMTS 1750	0.141	-32.3	69.8
Bottom Set	B	UMTS 1900	0.330	-29.3	41.6
Top Set	E	LTE Band 12	0.568	-26.4	-42.7
Top Set	E	LTE Band 13	0.262	-24.1	-42.7
Top Set	E	LTE Band 26	0.416	-29.9	-42.6
Bottom Set	B	LTE Band 66	0.226	-22.6	71.0
Bottom Set	B	LTE Band 25	0.319	-24.1	42.7
Bottom Set	B	LTE Band 41	0.096	-27.9	35.1
Top Set	E	NR Band n71	0.651	-24.5	-39.3
Top Set	E	NR Band n5	0.598	-24.6	-41.6
Bottom Set	B	NR Band n66	0.236	-24.0	65.7
Bottom Set	B	NR Band n25	0.224	-25.3	77.7
Bottom Set	B	NR Band n41	0.150	-24.3	34.8
Bottom Set	C	NR Band n41	0.317	-25.4	28.1
Top Set	G	NR Band n41	0.068	-26.8	-37.2
Bottom Set	C	NR Band n77	0.368	-26.6	26.0
Top Set	F	NR Band n77	0.696	-25.0	-54.4
Bottom Set	C	2.4 GHz WIFI	0.723	-21.2	33.4
Top Set	G	2.4 GHz WIFI	0.320	-24.1	-42.7
Top Set	F	5 GHz WIFI	0.738	-26.8	-70.3
Top Set	MIMO	5 GHz WIFI	0.649	-25.1	-70.7
Top Set	F	6 GHz WIFI	0.091	-26.8	-79.3
Top Set	MIMO	6 GHz WIFI	0.056	-25.7	-74.5
Bottom Set	C	2.4 GHz Bluetooth	0.682	-19.9	33.3
Top Set	G	2.4 GHz Bluetooth	0.163	-20.7	-39.2
NFC	NFC	NFC	0.000	-34.1	16.3

Table E-17
RSI=0/2 Body Top Edge ER

Antenna Group	Antenna	Mode/Band	Ratio to Limit
Top Set	E	GSM 850	0.021
Top Set	E	UMTS 850	0.034
Top Set	H	UMTS 1750	0.170
Top Set	H	UMTS 1900	0.278
Top Set	E	LTE Band 12	0.014
Top Set	E	LTE Band 13	0.016
Top Set	E	LTE Band 26	0.029
Top Set	H	LTE Band 66	0.161
Top Set	H	LTE Band 25	0.269
Top Set	H	LTE Band 41	0.129
Top Set	E	NR Band n71	0.043
Top Set	E	NR Band n5	0.047
Top Set	H	NR Band n66	0.359
Top Set	H	NR Band n25	0.370
Top Set	G	NR Band n41	0.222
Top Set	H	NR Band n41	0.224
Top Set	F	NR Band n77	0.209
Top Set	H	NR Band n77	0.063
Top Set	K	NR Band n77	0.101
Top Set	G	2.4 GHz WIFI	0.496
Top Set	F	5 GHz WIFI	0.351
Top Set	I	5 GHz WIFI	0.044
Top Set	MIMO	5 GHz WIFI	0.302
Top Set	F	6 GHz WIFI	0.038
Top Set	I	6 GHz WIFI	0.004
Top Set	MIMO	6 GHz WIFI	0.038
Top Set	G	2.4 GHz Bluetooth	0.411
NFC	NFC	NFC	0.001

Table E-18
RSI=0/2 Body Bottom Edge ER

Antenna Group	Antenna	Mode/Band	Ratio to Limit
Bottom Set	A	GSM 850	0.448
Bottom Set	B	GSM 1900	0.609
Bottom Set	A	UMTS 850	0.351
Bottom Set	B	UMTS 1750	0.522
Bottom Set	B	UMTS 1900	0.631
Bottom Set	A	LTE Band 12	0.448
Bottom Set	A	LTE Band 13	0.538
Bottom Set	A	LTE Band 26	0.226
Bottom Set	B	LTE Band 66	0.753
Bottom Set	B	LTE Band 25	0.671
Bottom Set	B	LTE Band 41	0.309
Bottom Set	A	NR Band n71	0.270
Bottom Set	A	NR Band n5	0.534
Bottom Set	B	NR Band n66	0.558
Bottom Set	B	NR Band n25	0.666
Bottom Set	B	NR Band n41	0.536
Bottom Set	C	NR Band n41	0.048
Bottom Set	C	NR Band n77	0.021
Bottom Set	C	2.4 GHz WIFI	0.123
Bottom Set	C	2.4 GHz Bluetooth	0.106
NFC	NFC	NFC	0.000

E.8 Conclusion

The above numerical summed SAR results and SPLSR for all the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528- 2013 Section 6.3.4.1.

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.	 APPENDIX E: Page 29 of 29