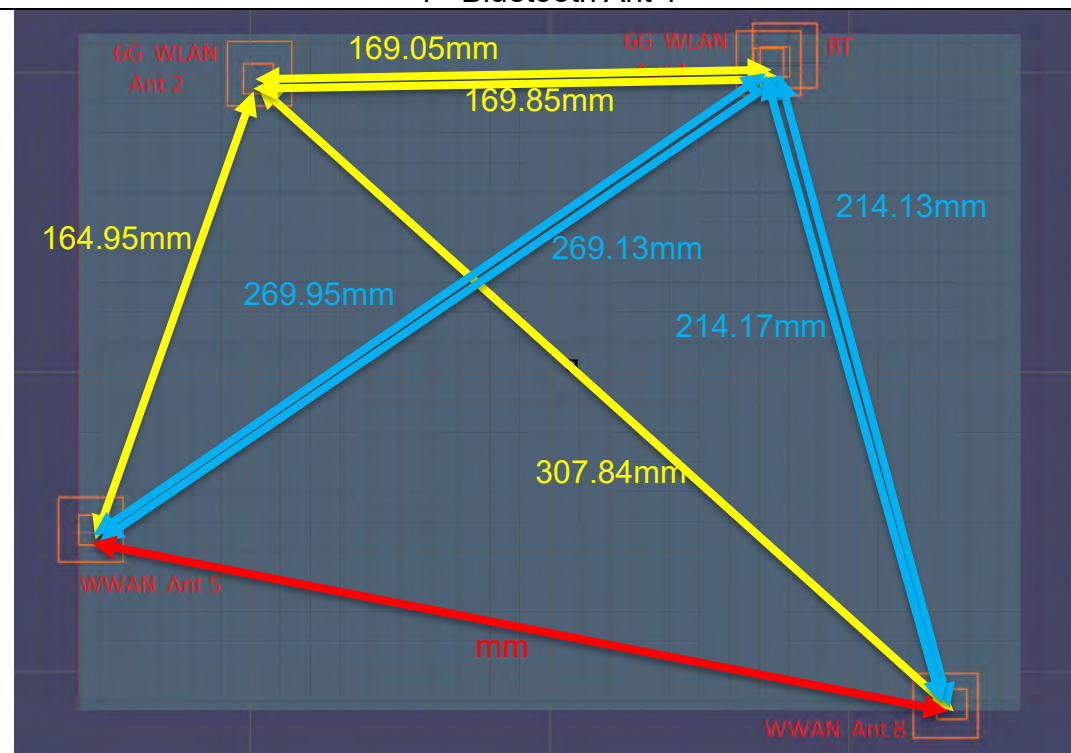
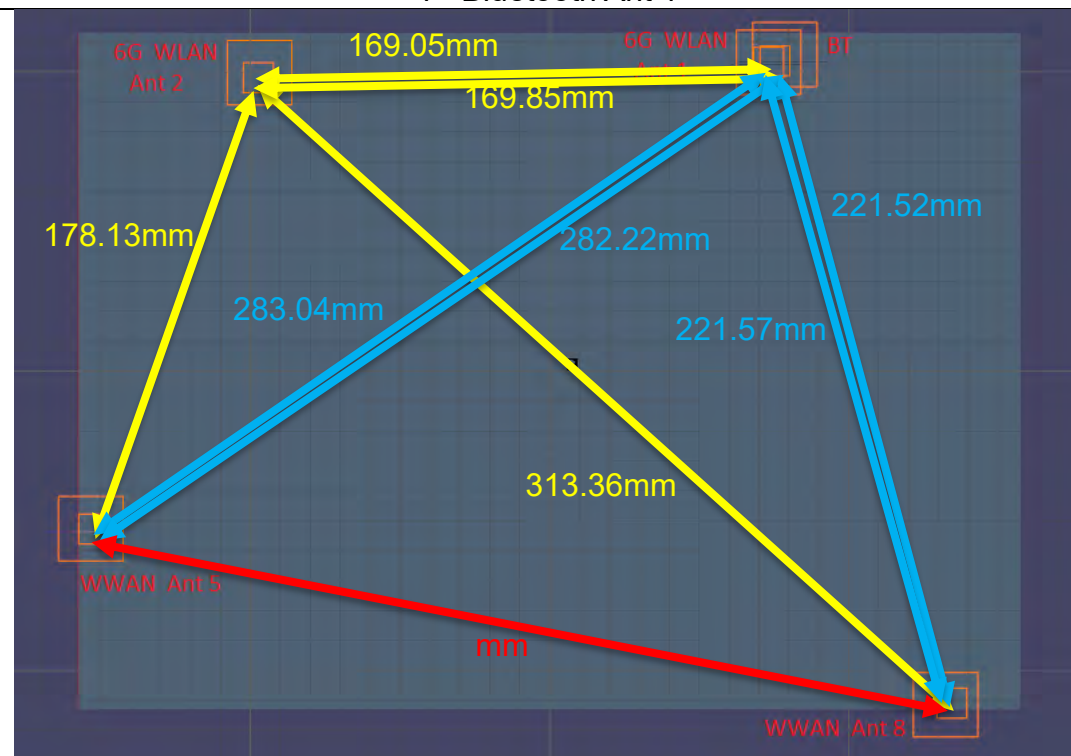


CA_7C_Ant 5+ NR n78_FCC_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 12_Ant 5+ NR n2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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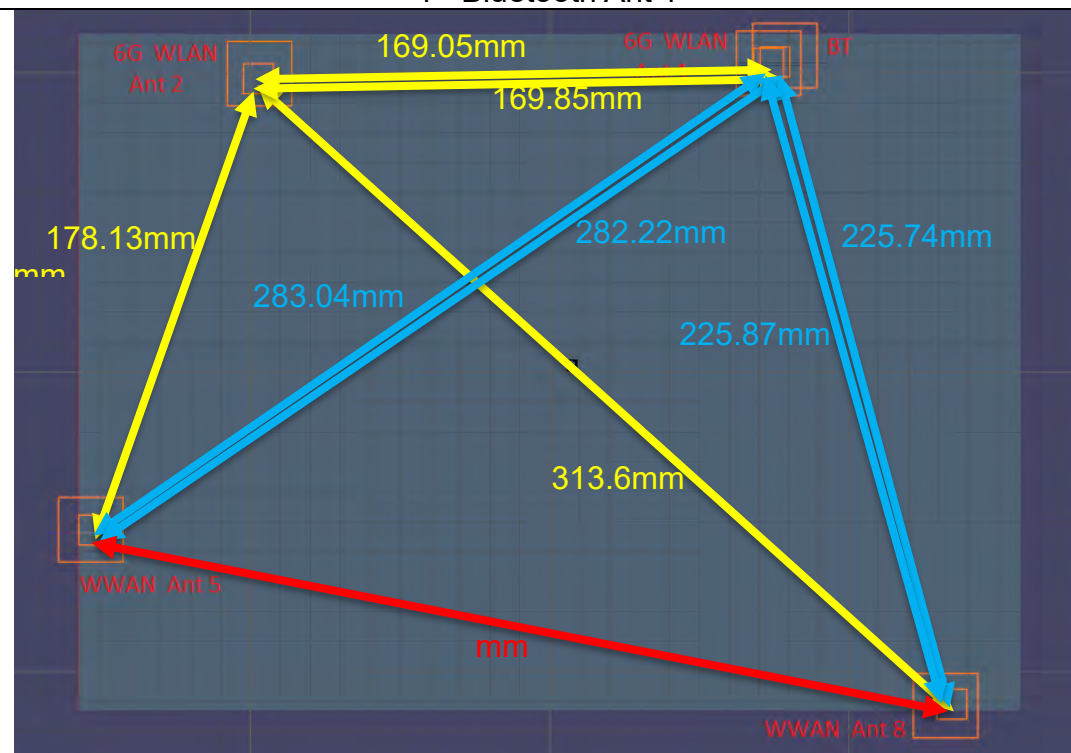
t (886-2) 2299-3279

f (886-2) 2298-0488

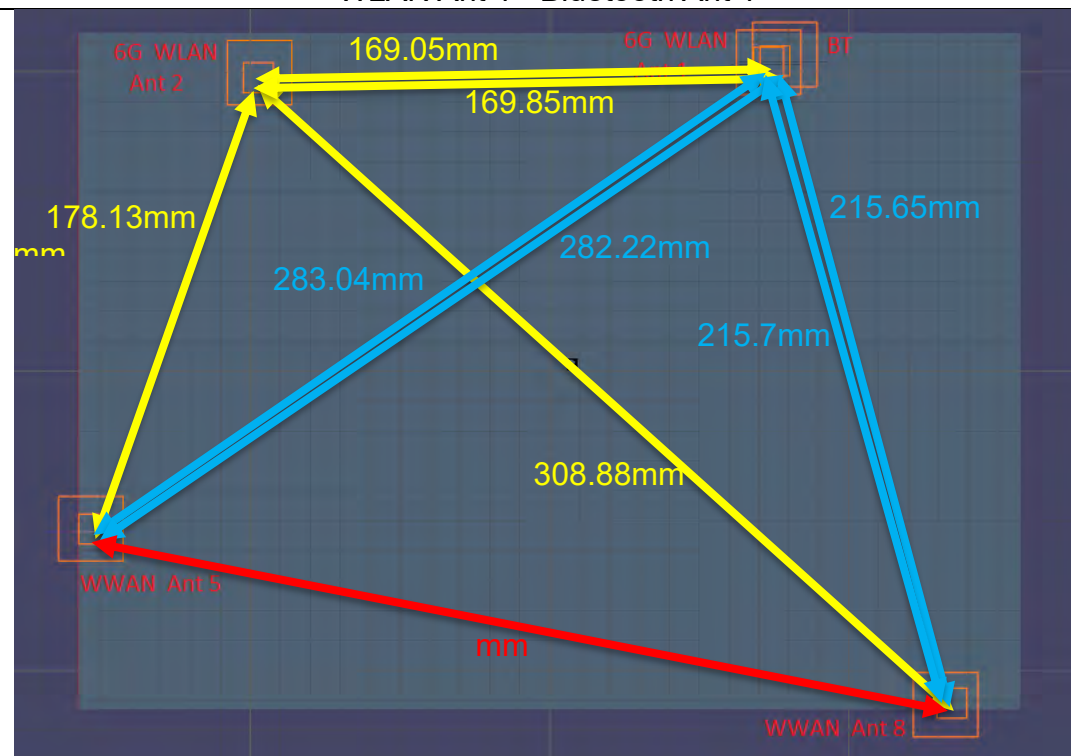
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LTE Band 12_Ant 5+ NR n77_FCC_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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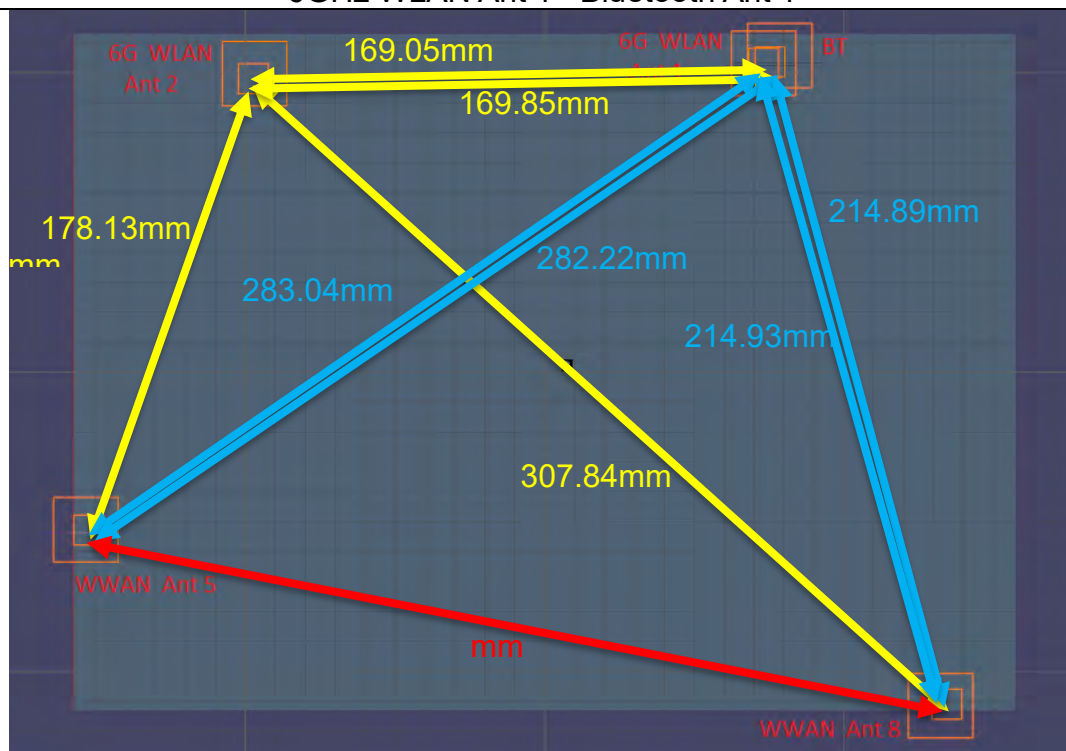
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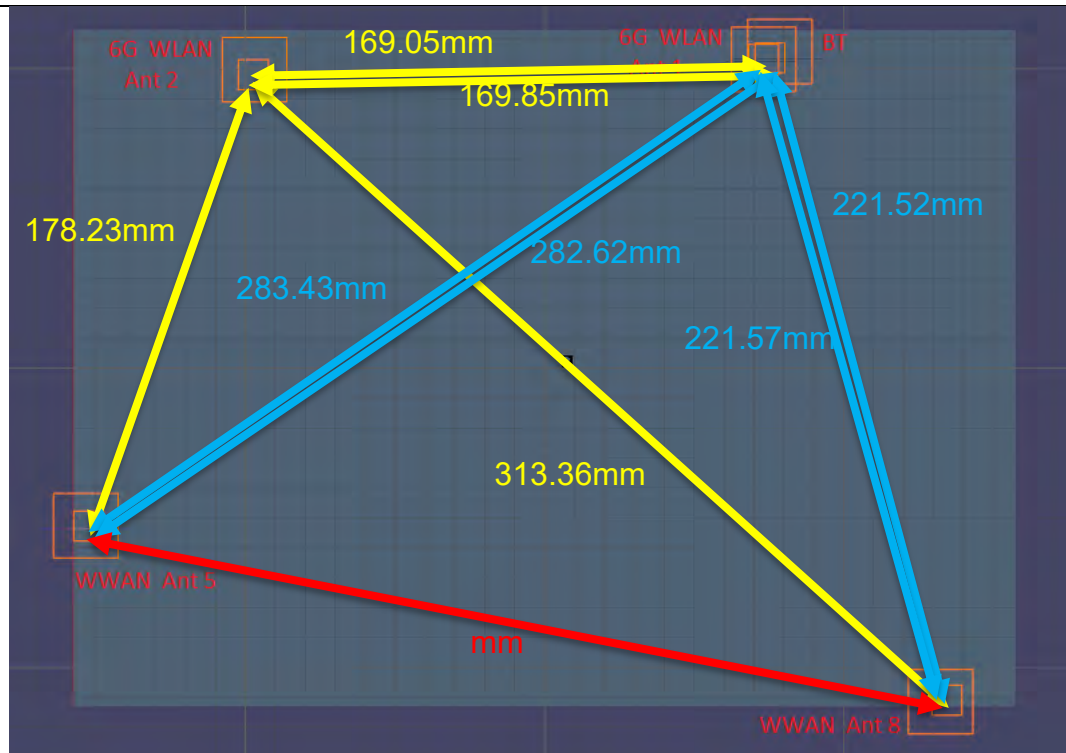
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6GHz WLAN Ant 1+ Bluetooth Ant 1



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1+ Bluetooth Ant 1



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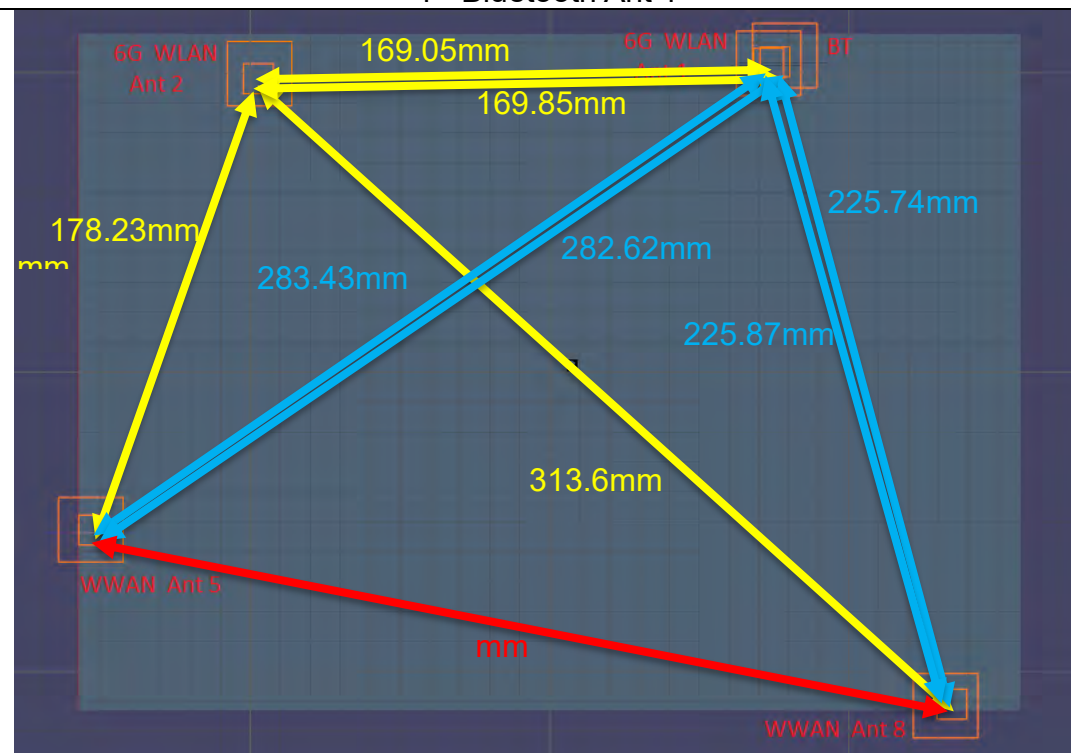
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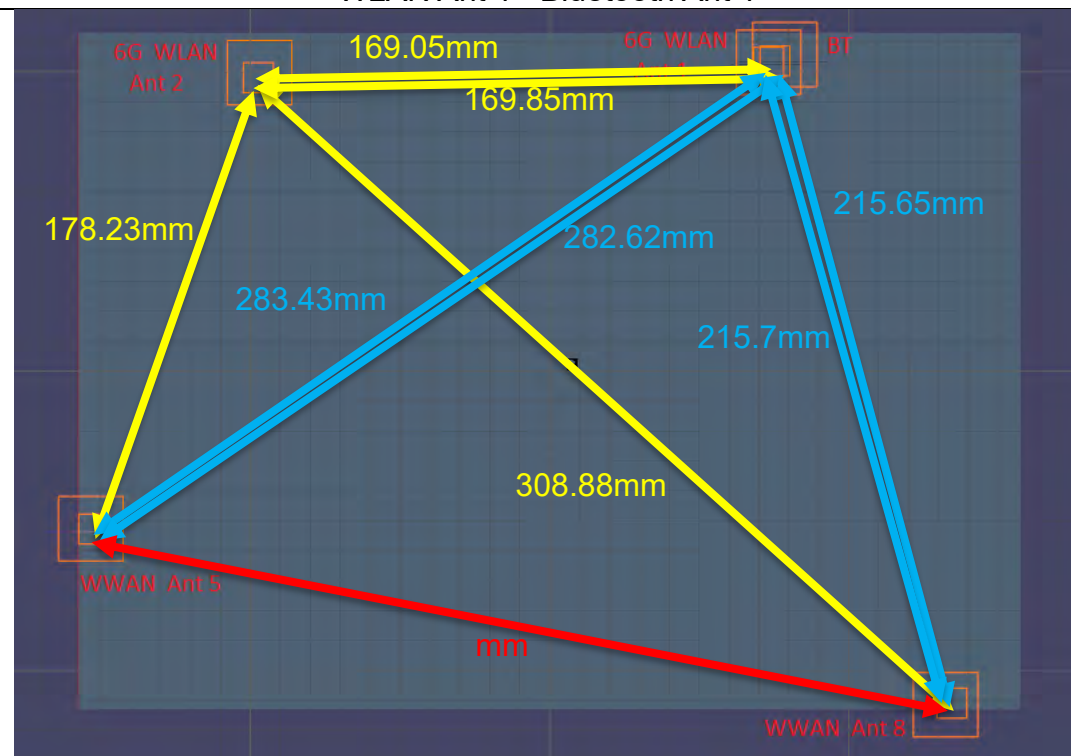
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LTE Band 13_Ant 5+ NR n77_FCC_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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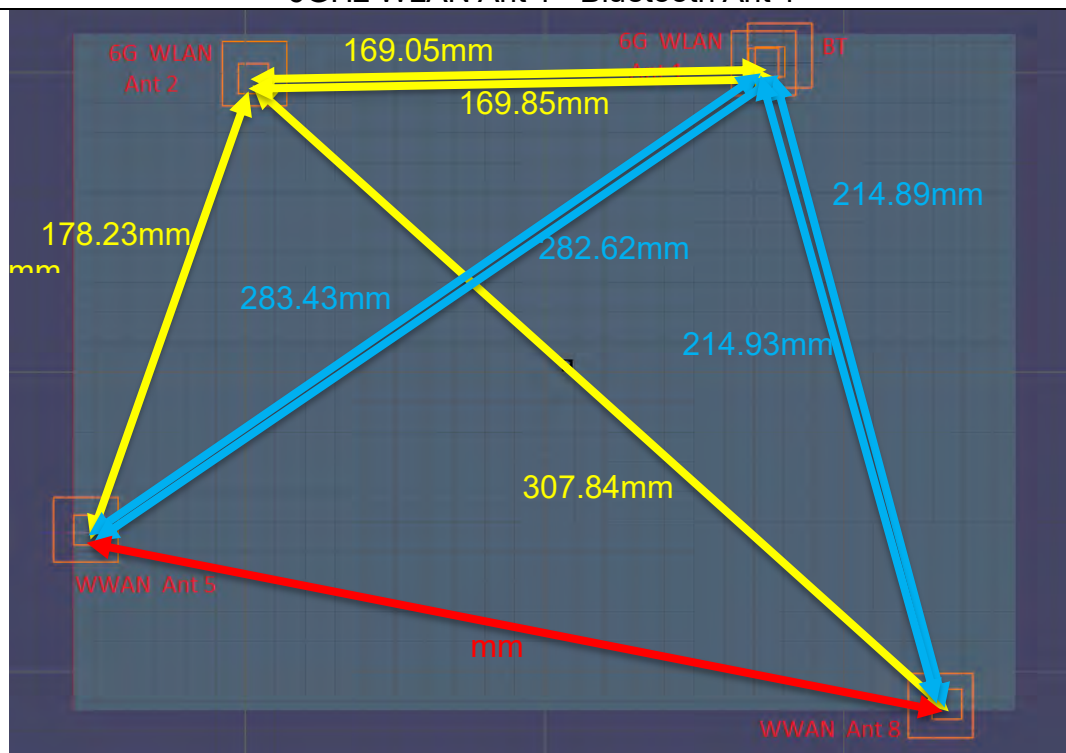
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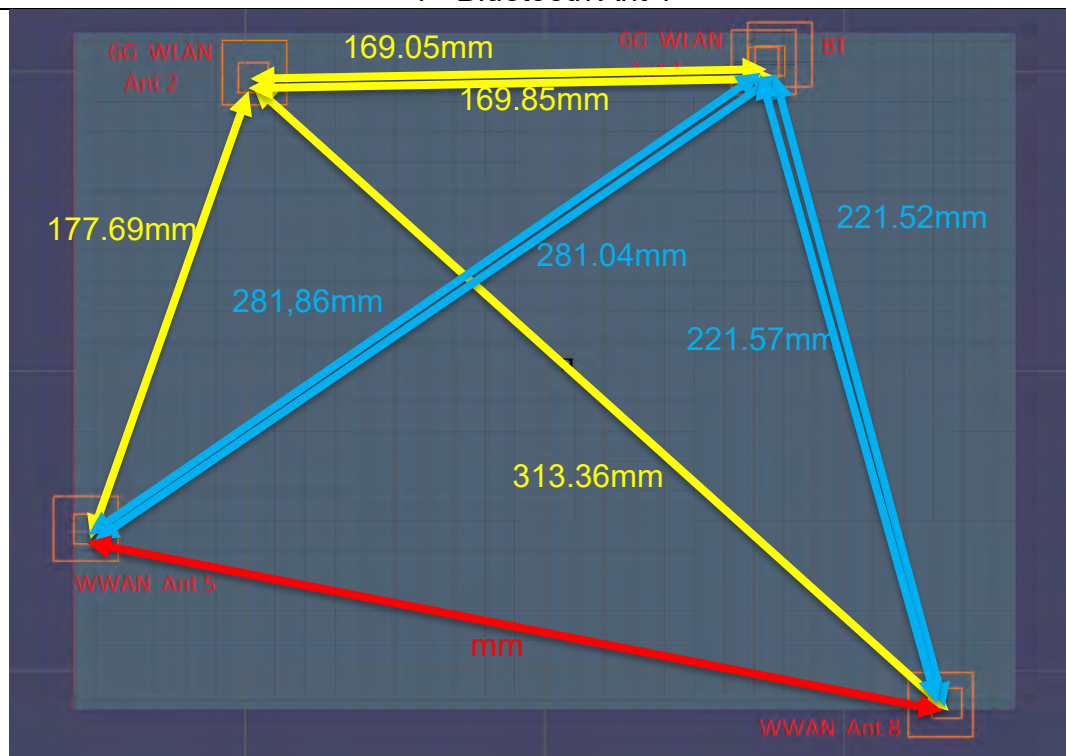
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6GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 14_Ant 5+ NR n2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant
1+ Bluetooth Ant 1



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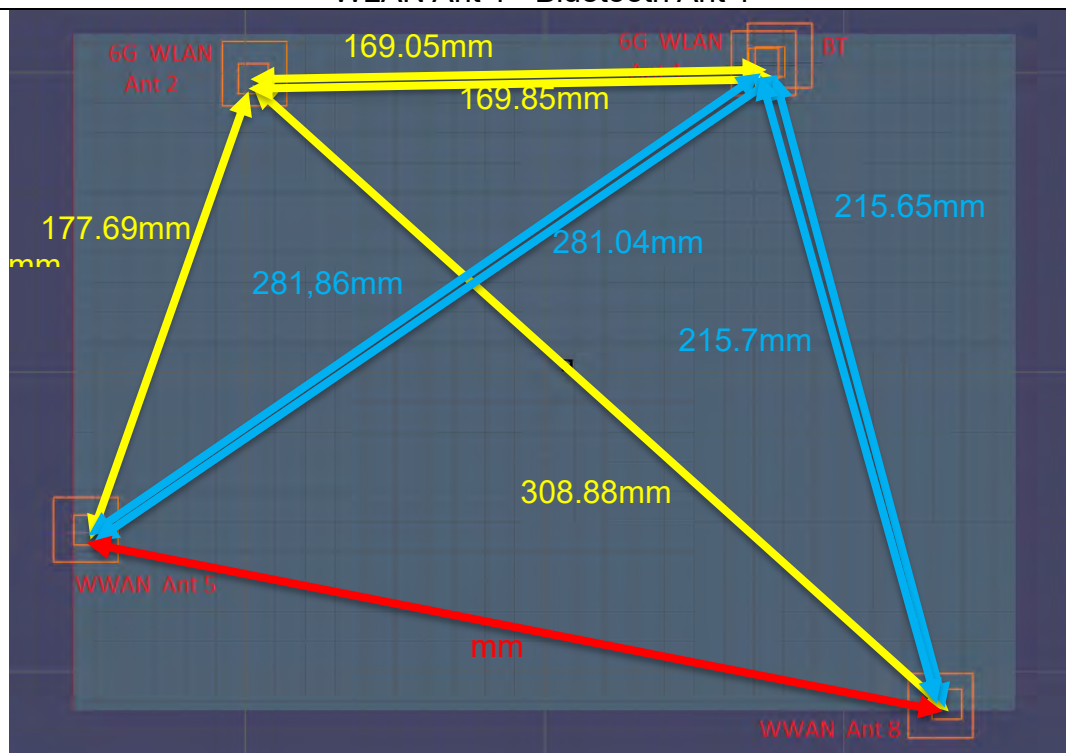
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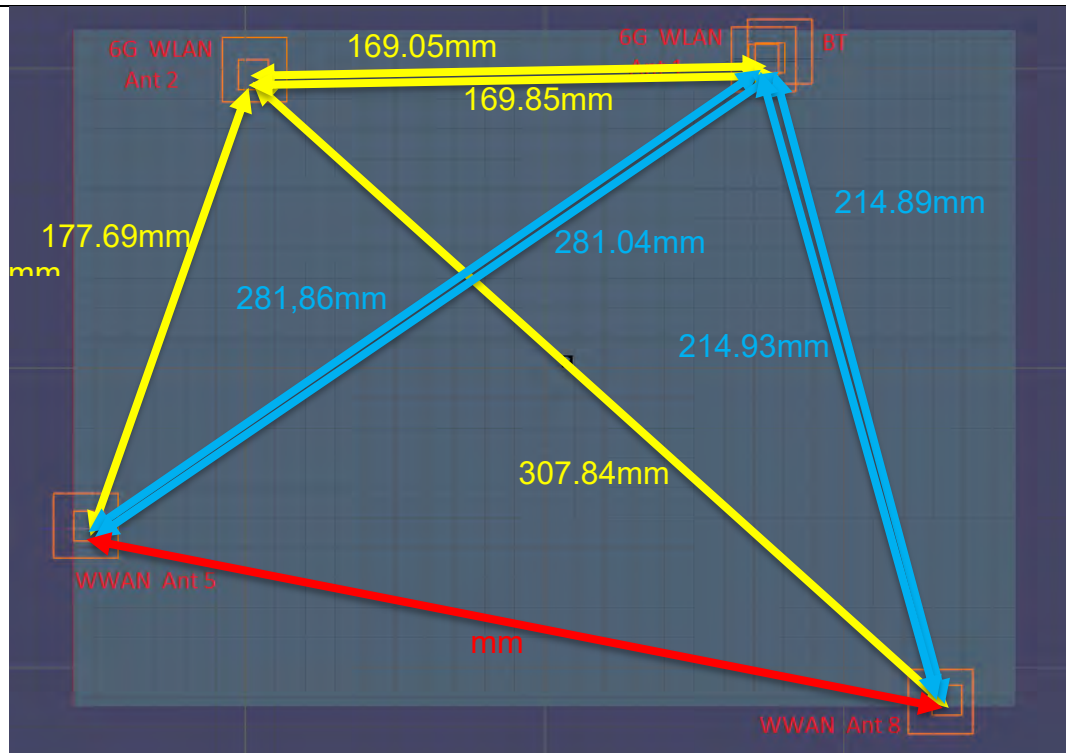
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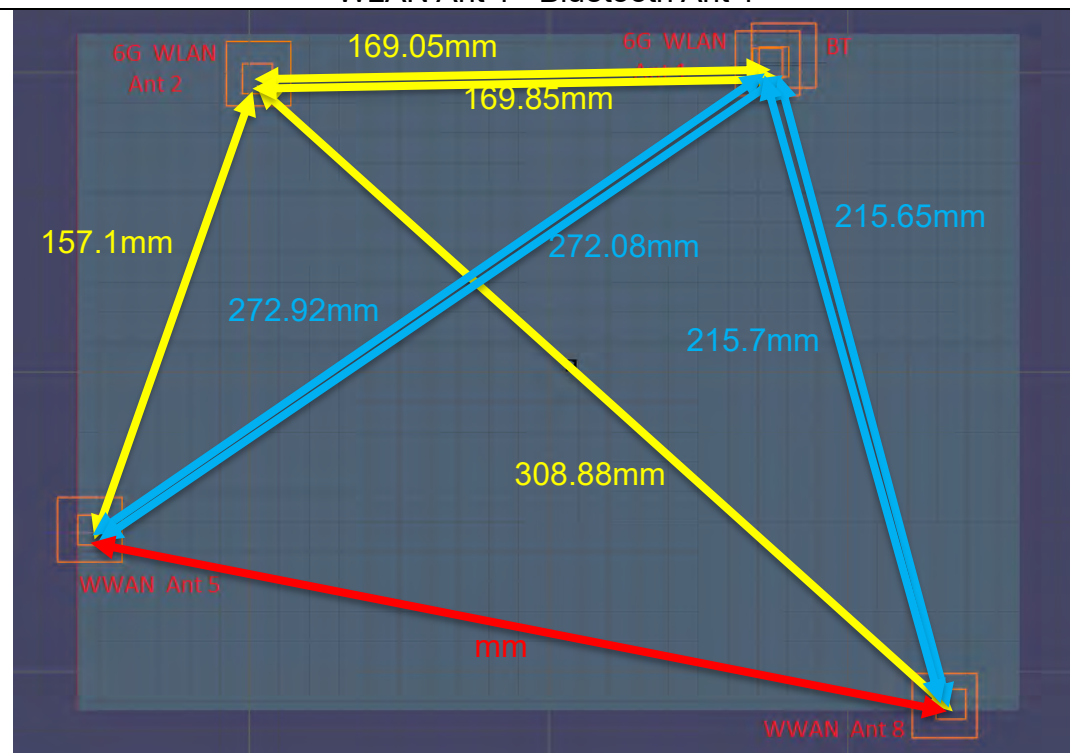
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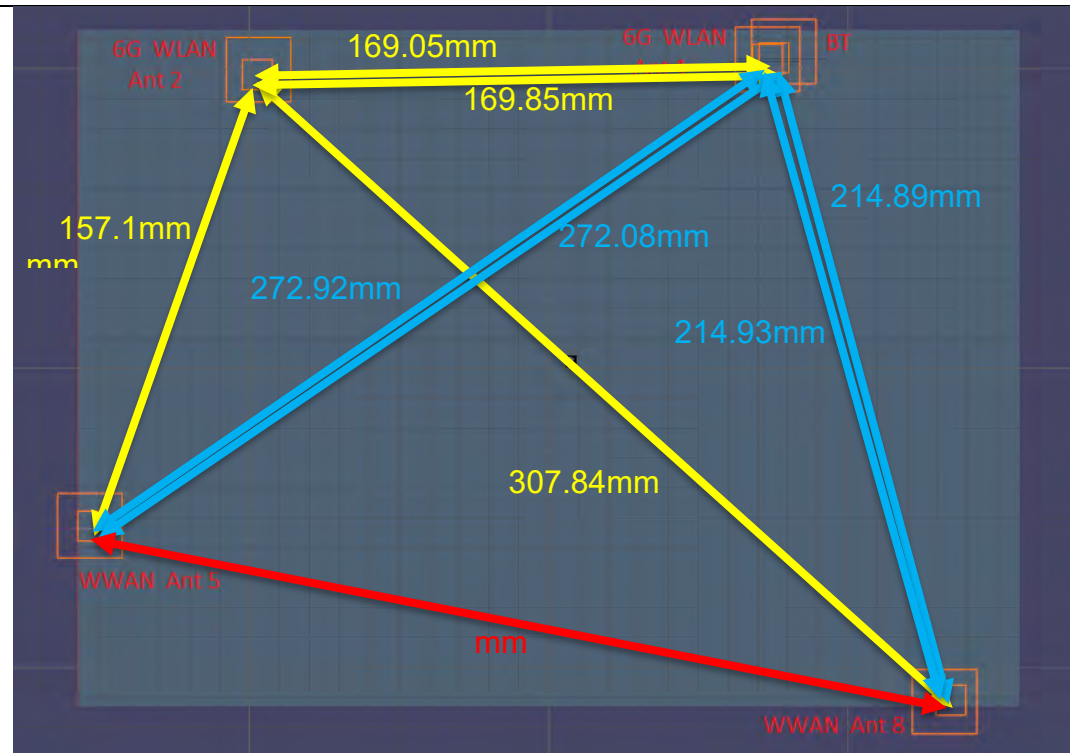
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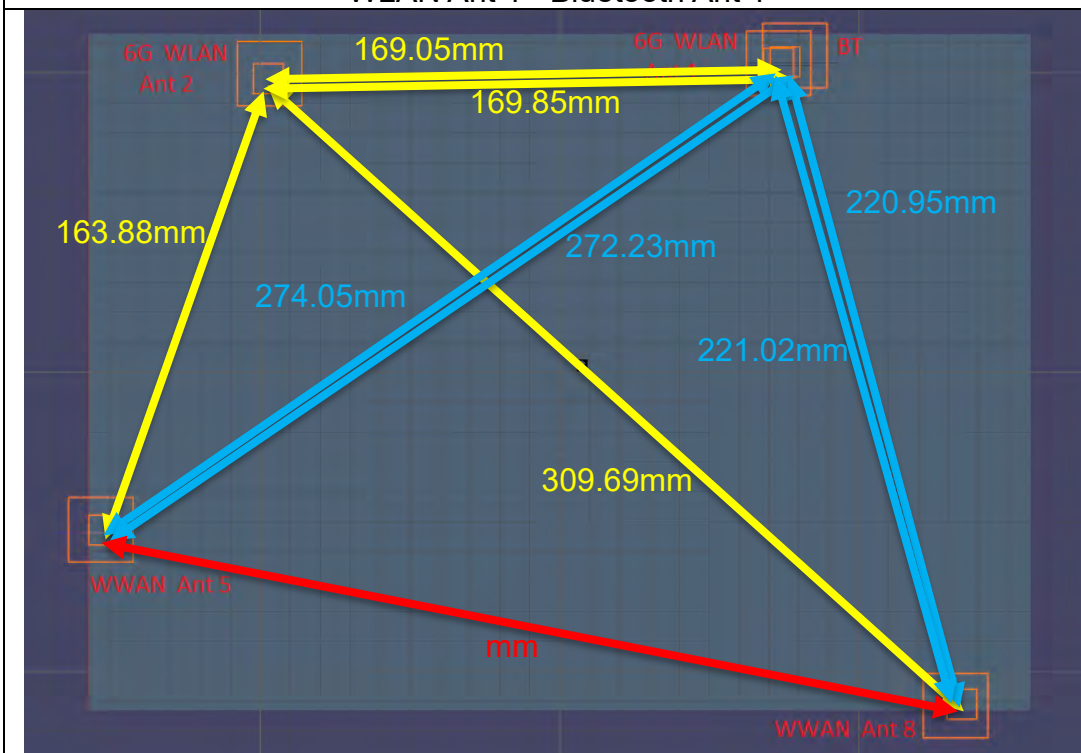
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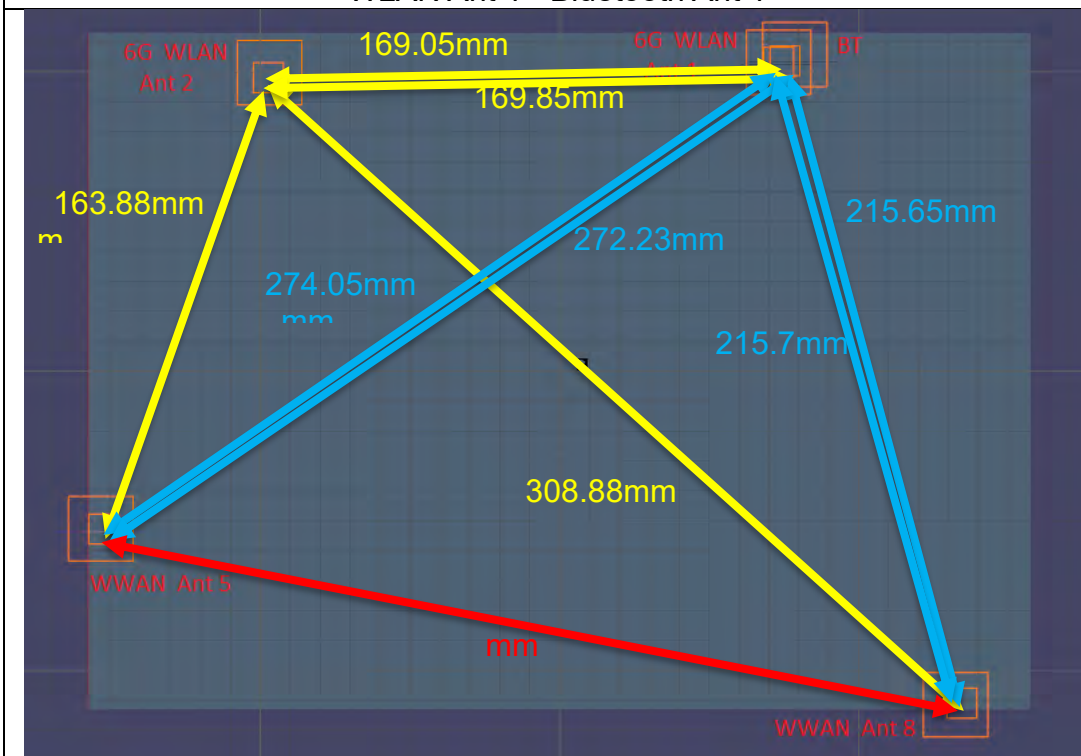
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WLAN Ant 1+ Bluetooth Ant 1



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WLAN Ant 1+ Bluetooth Ant 1



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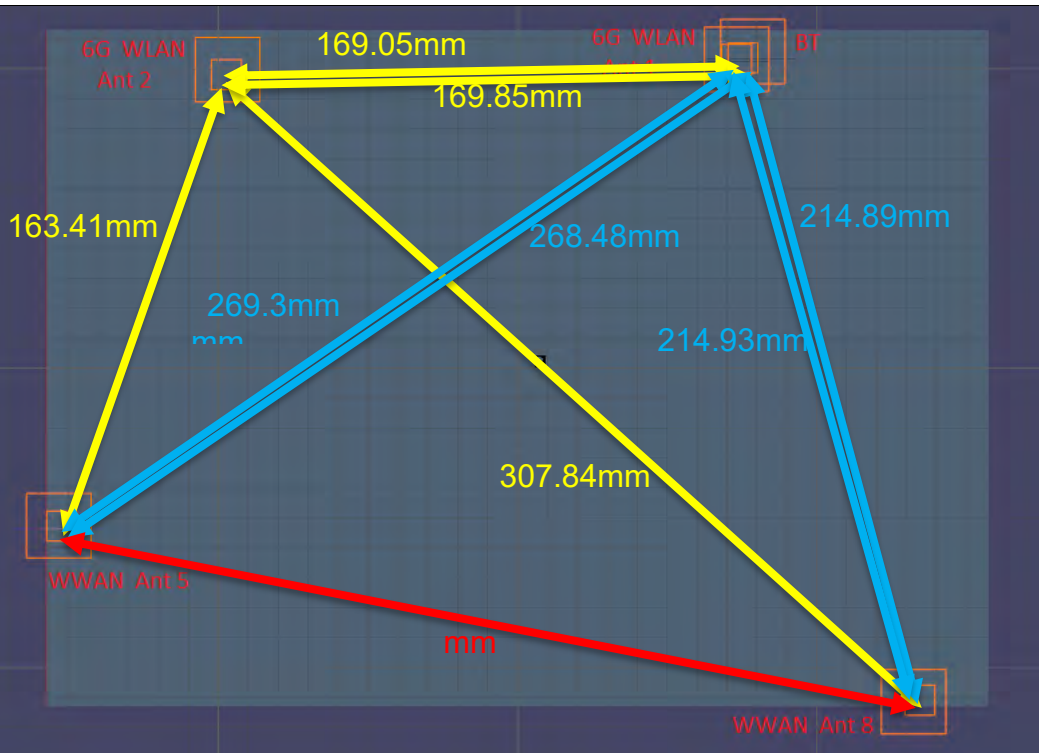
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6GHz WLAN Ant 1+ Bluetooth Ant 1



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6GHz WLAN Ant 1+ Bluetooth Ant 1



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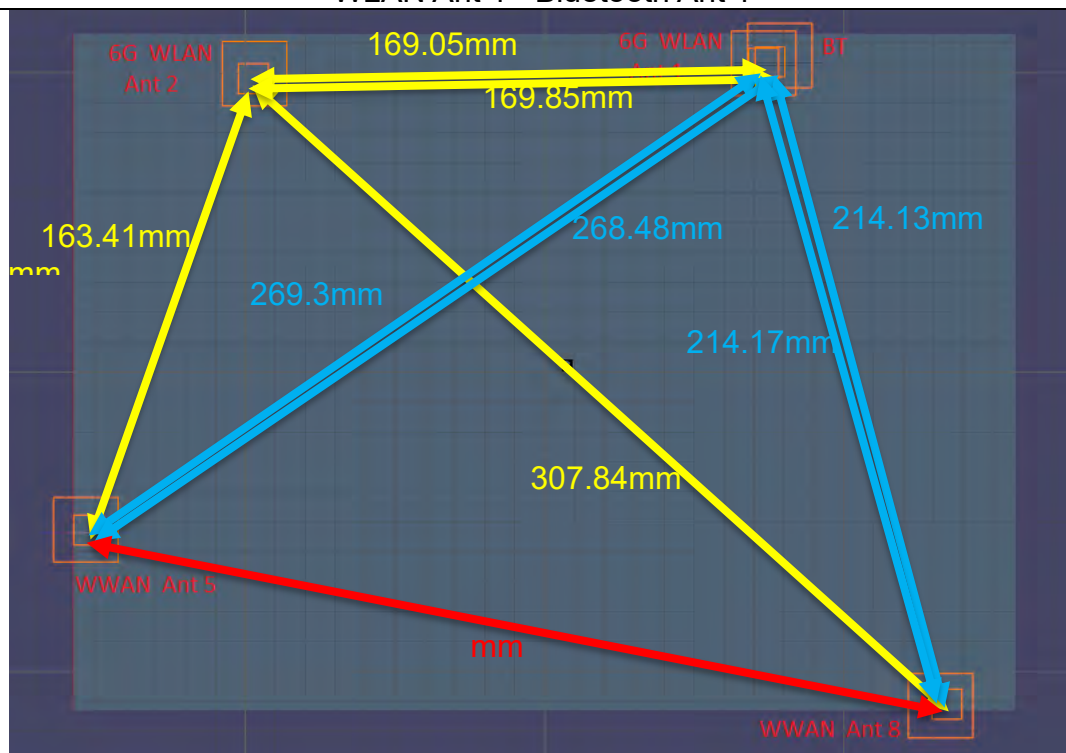
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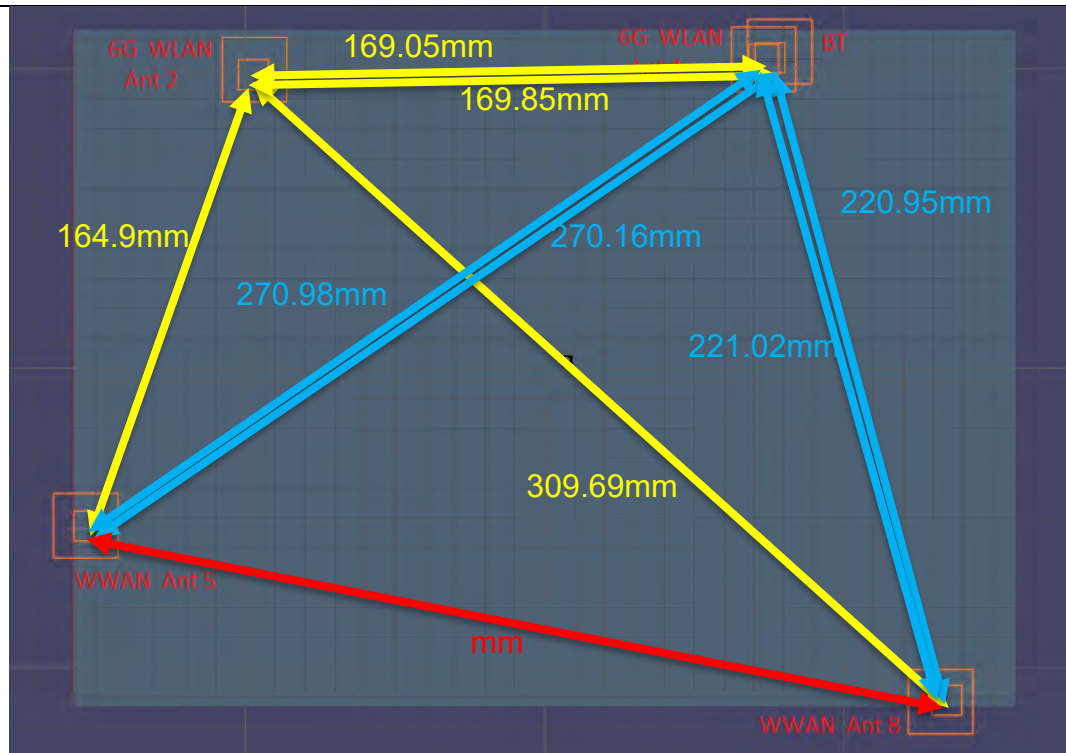
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1+ Bluetooth Ant 1



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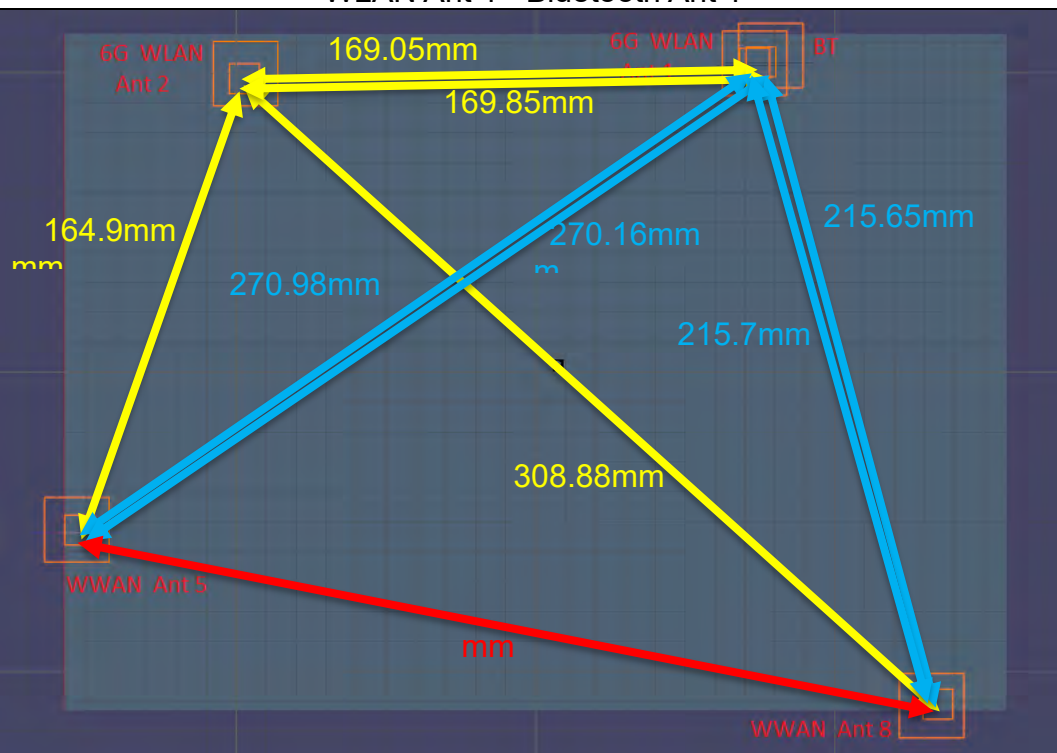
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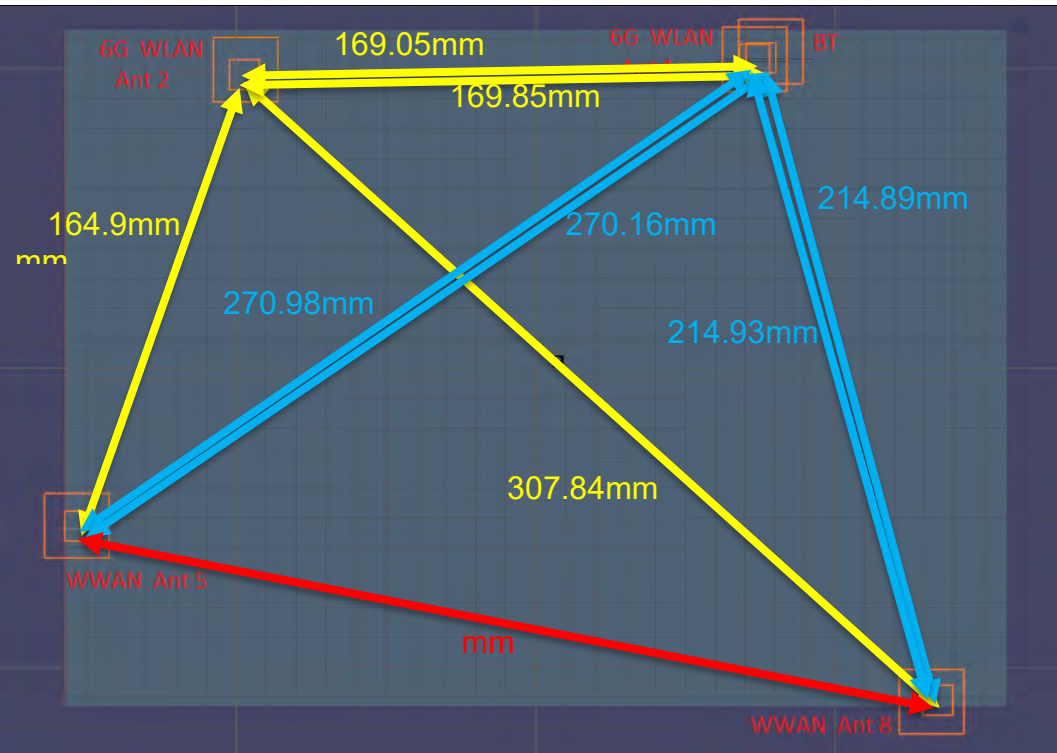
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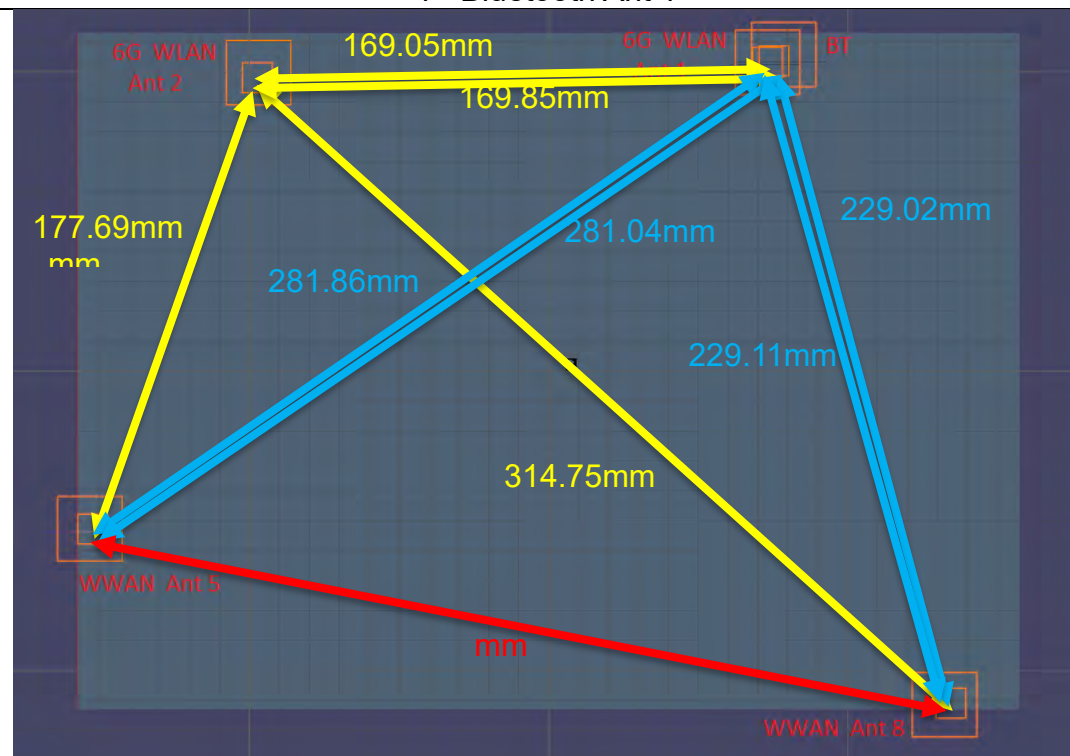
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NR n5_Ant 5+ LTE Band 7_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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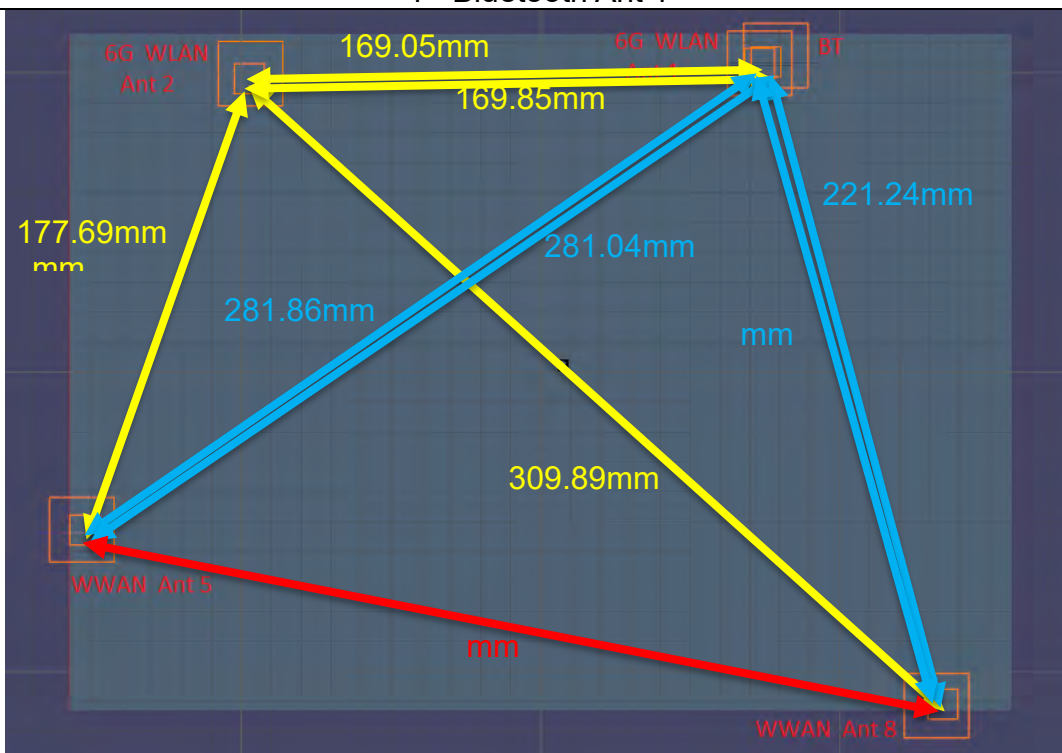
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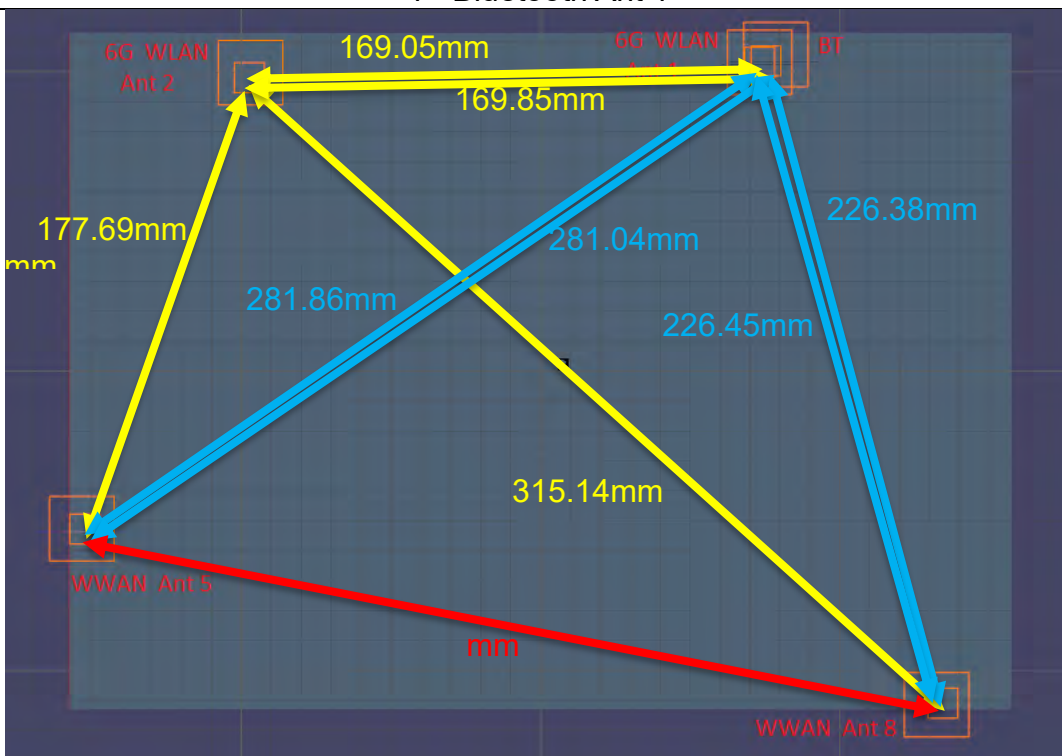
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NR n5_Ant 5+ LTE Band 30_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



NR n5_Ant 5+ LTE Band 66_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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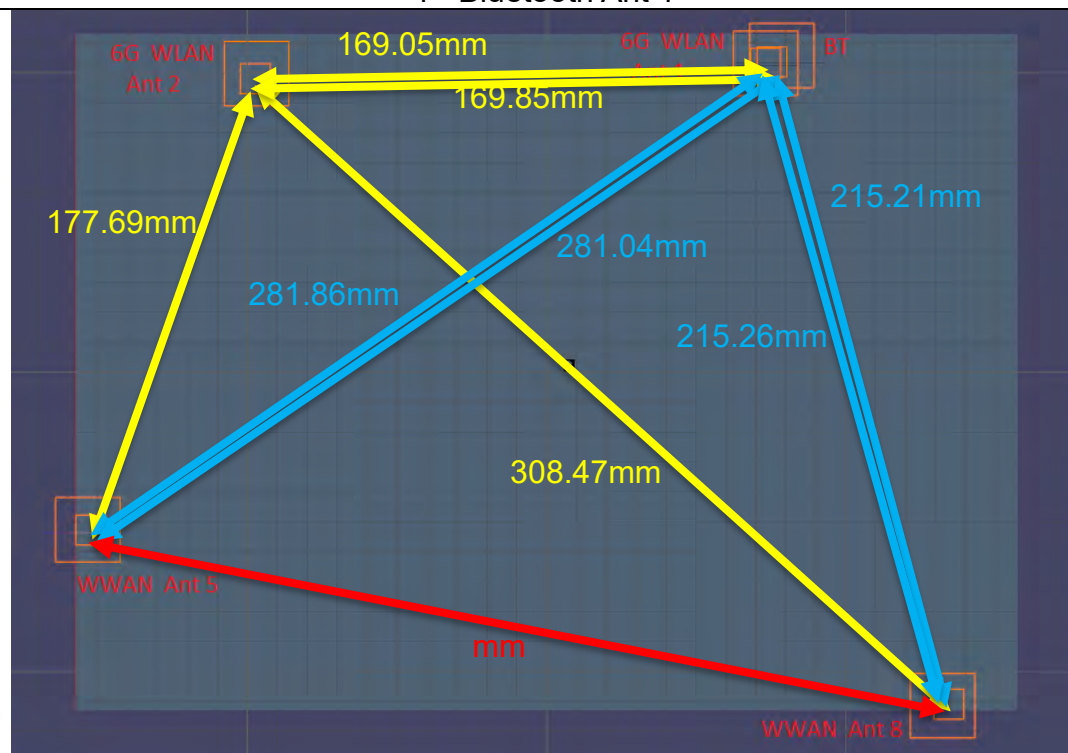
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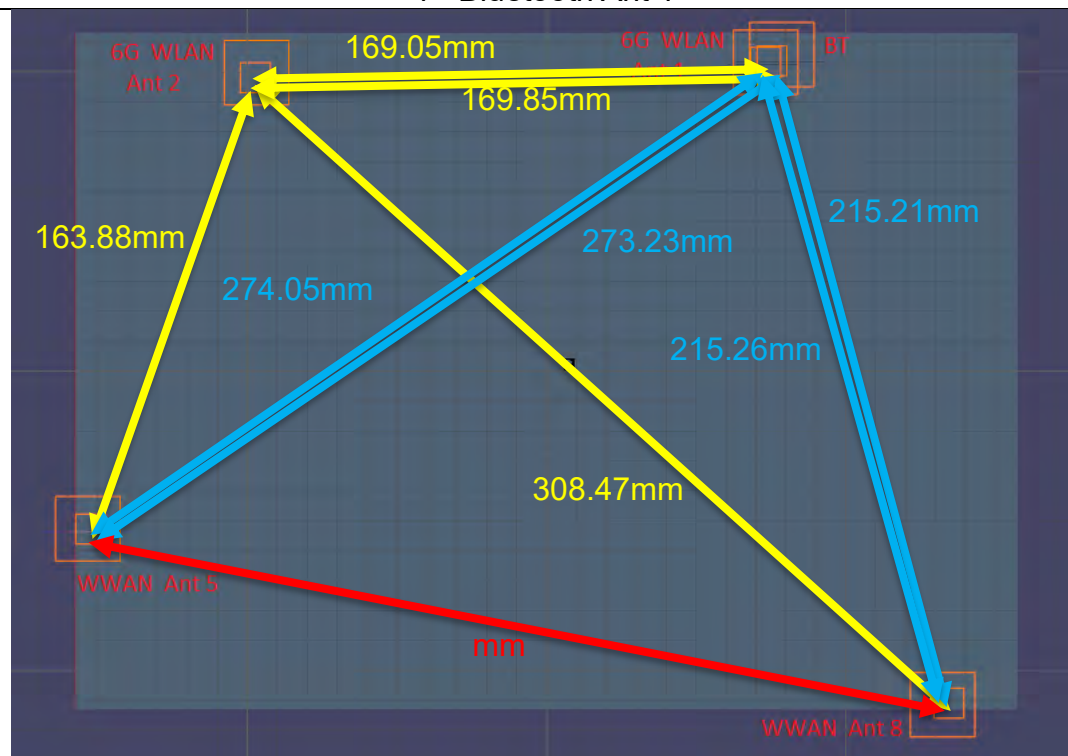
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NR n5_Ant 5+ LTE Band 48_Ant 8 + 6GHz WLAN Ant 2+ 6G2z WLAN Ant 1+ Bluetooth Ant 1



NR n66_Ant 5+ LTE Band 48_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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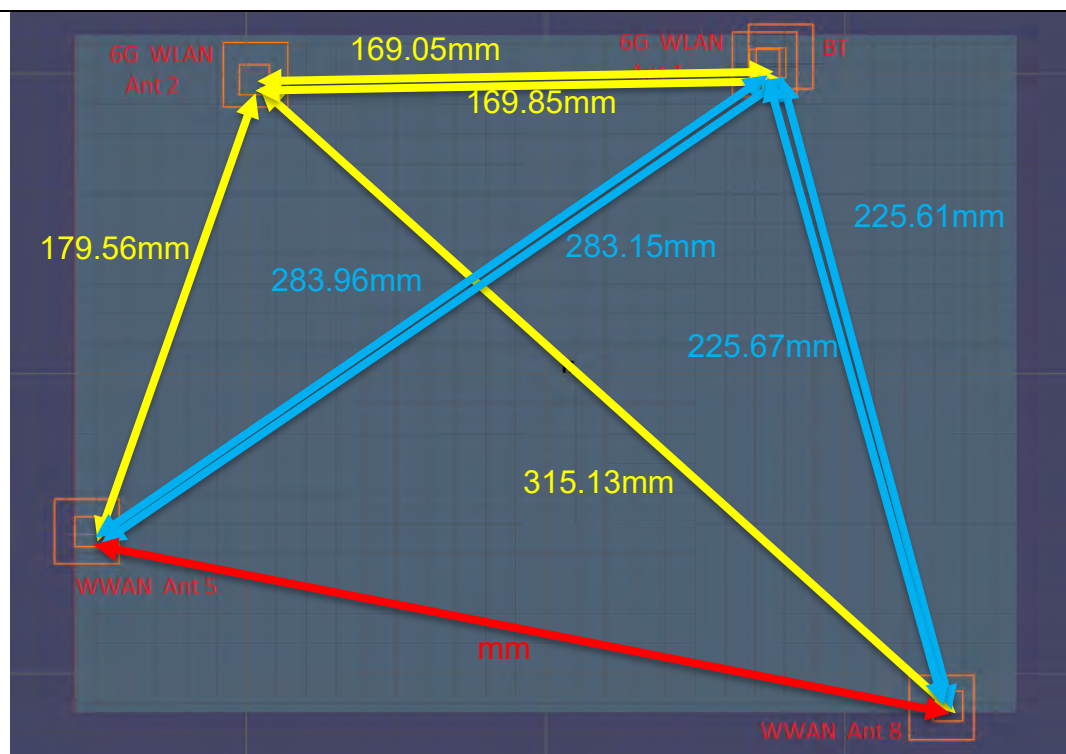
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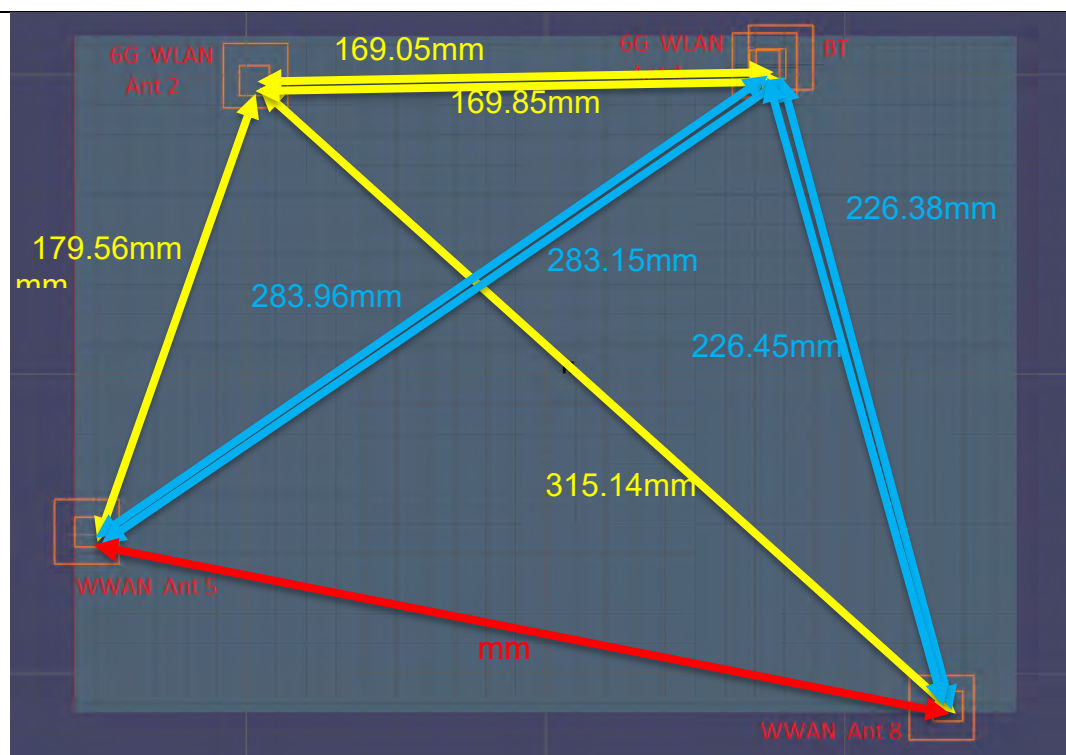
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NR n71_Ant 5+ LTE Band 2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN
Ant 1+ Bluetooth Ant 1



NR n71_Ant 5+ LTE Band 66_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN
Ant 1+ Bluetooth Ant 1



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			FCC Reported SAR										Scenario1		Scenario2		Scenario3		Scenario4		Scenario5		Scenario6		Scenario7		Scenario8											
Exposure Position			1		2		3		4		5		6		7		8		9		10/344		10/347		10/348		10/349		10/349		10/349		10/349		10/349		10/349	
			WLAN		WLAN		2-GHz WLAN		1.4GHz WLAN		5G WLAN		5G WLAN		Bluetooth		5G WLAN		5G WLAN		5G WLAN		Summed		Summed		Summed		Summed		Summed		Summed		Summed		Summed	
			1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)	
			1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)		1g SAR (W/kg)	
LTE Band 5_Ant 5	Bottom Surface	0	1.016		LTE Band 48_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.308	4.175	3.038	4.205	2.078	2.160	2.411																	
LTE Band 5_Ant 5	Bottom Surface	0	0.712		LTE Band 7_Ant 8	0.836	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.307	3.879	2.742	3.869	2.079	1.861	2.112																	
LTE Band 5_Ant 5	Bottom Surface	0	0.712		LTE Band 30_Ant 8	1.054	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.304	4.223	3.037	4.205	2.426	2.209	2.459																	
LTE Band 5_Ant 5	Bottom Surface	0	0.712		LTE Band 66_Ant 8	0.943	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.325	4.064	2.958	4.127	2.267	2.079	2.330																	
LTE Band 5_Ant 5	Bottom Surface	0	0.712		LTE Band 48_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.319	3.980	2.947	4.079	2.199	1.969	2.219																	
LTE Band 12_Ant 5	Bottom Surface	0	0.935		LTE Band 4_Ant 8	0.836	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.326	4.069	2.963	4.132	2.262	2.084	2.335																	
LTE Band 12_Ant 5	Bottom Surface	0	0.935		LTE Band 30_Ant 8	0.943	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.340	4.209	3.073	4.243	2.412	2.194	2.445																	
LTE Band 12_Ant 5	Bottom Surface	0	0.935		LTE Band 66_Ant 8	1.054	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.448	4.317	3.181	4.363	2.520	2.302	2.553																	
LTE Band 13_Ant 5	Bottom Surface	0	0.851		LTE Band 7_Ant 8	0.836	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.337	4.209	3.076	4.239	2.469	2.191	2.442																	
LTE Band 13_Ant 5	Bottom Surface	0	0.851		LTE Band 30_Ant 8	0.943	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.346	4.141	3.115	2.879	4.049	2.218	2.000	2.251																
LTE Band 13_Ant 5	Bottom Surface	0	0.851		LTE Band 66_Ant 8	0.943	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.358	4.125	2.999	4.159	2.328	2.110	2.361																	
LTE Band 13_Ant 5	Bottom Surface	0	0.851		LTE Band 48_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.353	4.122	2.988	4.155	2.305	2.107	2.358																	
LTE Band 13_Ant 5	Bottom Surface	0	0.851		LTE Band 30_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.429	4.141	4.119	4.274	2.429	2.213	2.464																	
LTE Band 14_Ant 5	Bottom Surface	0	0.823		LTE Band 7_Ant 8	0.836	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.420	4.118	3.087	4.005	2.189	1.977	2.223																	
LTE Band 14_Ant 5	Bottom Surface	0	0.823		LTE Band 30_Ant 8	1.054	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.438	4.265	3.099	4.239	2.468	2.199	2.449																	
LTE Band 14_Ant 5	Bottom Surface	0	0.823		LTE Band 66_Ant 8	0.943	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.527	4.024	3.004	4.127	2.297	2.079	2.330																	
LTE Band 26_FCC_Ant 5	Bottom Surface	0	0.734		LTE Band 48_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.318	2.076	3.945	2.808	3.818	2.148	1.930	2.181																	
LTE Band 66_Ant 5	Bottom Surface	0	0.969		LTE Band 48_Ant 8	0.831	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.605	2.266	4.119	2.983	4.162	2.322	2.104	2.355																	
NR n1_Ant 5	Bottom Surface	0	0.762		NR n2_Ant 5	1.169	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.602	2.360	4.209	3.123	4.202	2.462	2.244	2.495																	
NR n3_Ant 5	Bottom Surface	0	0.762		NR n5_Ant 5	1.005	0.426	0.335	1.159	1.169	0.033	0.260	0.251	2.528	2.255	4.095	2.959	4.139	2.288	2.080	2.331																	

LTE Band 2_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 2_Ant 5	1.016	-55.00	150.00	-174.00	-	-	-	-
	LTE Band 48_Ant 8	0.831	-101.20	-137.00	-177.00	1.847	290.71	0.009	SPLSR ≤ 0.04, Not required

LTE Band 5_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 5_Ant 5	0.712	-70.00	147.00	-174.00	-	-	-	-
	LTE Band 2_Ant 8	0.836	-112.40	-136.00	-174.00	1.548	286.16	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 4_Ant 8	0.946	-113.20	-135.00	-174.00	1.658	285.29	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 7_Ant 8	1.183	-117.40	-130.80	-174.00	1.895	281.81	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 30_Ant 8	1.054	-108.00	-134.00	-177.00	1.766	283.57	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 66_Ant 8	0.943	-113.50	-135.00	-174.00	1.655	285.34	0.007	SPLSR ≤ 0.04, Not required
	LTE Band 48_Ant 8	0.831	-101.20	-137.00	-177.00	1.543	285.72	0.007	SPLSR ≤ 0.04, Not required

LTE Band 12_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 12_Ant 5	0.935	-70.00	150.00	-174.00	-	-	-	-
	LTE Band 2_Ant 8	0.836	-112.40	-136.00	-174.00	1.771	289.13	0.008	SPLSR ≤ 0.04, Not required
	LTE Band 4_Ant 8	0.946	-113.20	-135.00	-174.00	1.881	288.26	0.009	SPLSR ≤ 0.04, Not required
	LTE Band 30_Ant 8	1.054	-108.00	-134.00	-177.00	1.989	286.55	0.010	SPLSR ≤ 0.04, Not required
	LTE Band 66_Ant 8	0.943	-113.50	-135.00	-174.00	1.878	288.30	0.009	SPLSR ≤ 0.04, Not required

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LTE Band 13_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 13_Ant 5	0.851	-70.00	150.50	-174.00	-	-	-	-
	LTE Band 2_Ant 8	0.836	-112.40	-136.00	-174.00	1.687	289.62	0.008	SPLSR $\leq$ 0.04, Not required
	LTE Band 4_Ant 8	0.946	-113.20	-135.00	-174.00	1.797	288.75	0.008	SPLSR $\leq$ 0.04, Not required
	LTE Band 66_Ant 8	0.943	-113.50	-135.00	-174.00	1.794	288.79	0.008	SPLSR $\leq$ 0.04, Not required
	LTE Band 48_Ant 8	0.831	-101.20	-137.00	-177.00	1.682	289.20	0.008	SPLSR $\leq$ 0.04, Not required

LTE Band 14_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 14_Ant 5	0.823	-70.00	148.50	-174.70	-	-	-	-
	LTE Band 2_Ant 8	0.836	-112.40	-136.00	-174.00	1.659	287.64	0.007	SPLSR $\leq$ 0.04, Not required
	LTE Band 30_Ant 8	1.054	-108.00	-134.00	-177.00	1.877	285.05	0.009	SPLSR $\leq$ 0.04, Not required
	LTE Band 66_Ant 8	0.943	-113.50	-135.00	-174.00	1.766	286.82	0.008	SPLSR $\leq$ 0.04, Not required

LTE Band 26_FCC_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 26_FCC_Ant 5	0.734	-70.00	147.00	-174.80	-	-	-	-
	LTE Band 25_Ant 8	0.883	-107.90	-139.00	-177.00	1.617	288.51	0.007	SPLSR $\leq$ 0.04, Not required

LTE Band 66_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	LTE Band 66_Ant 5	0.960	-55.00	150.00	-174.70	-	-	-	-
	LTE Band 48_Ant 8	0.831	-101.20	-137.00	-177.00	1.791	290.70	0.008	SPLSR $\leq$ 0.04, Not required

NR n5_Ant 5									
Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	NR n5_Ant 5	0.762	-70.00	148.50	-174.00	-	-	-	-
	NR n2_Ant 8	1.169	-107.50	-138.00	-177.00	1.931	288.96	0.009	SPLSR $\leq$ 0.04, Not required
	NR n66_Ant 8	1.005	-113.40	-133.00	-174.00	1.767	284.83	0.008	SPLSR $\leq$ 0.04, Not required

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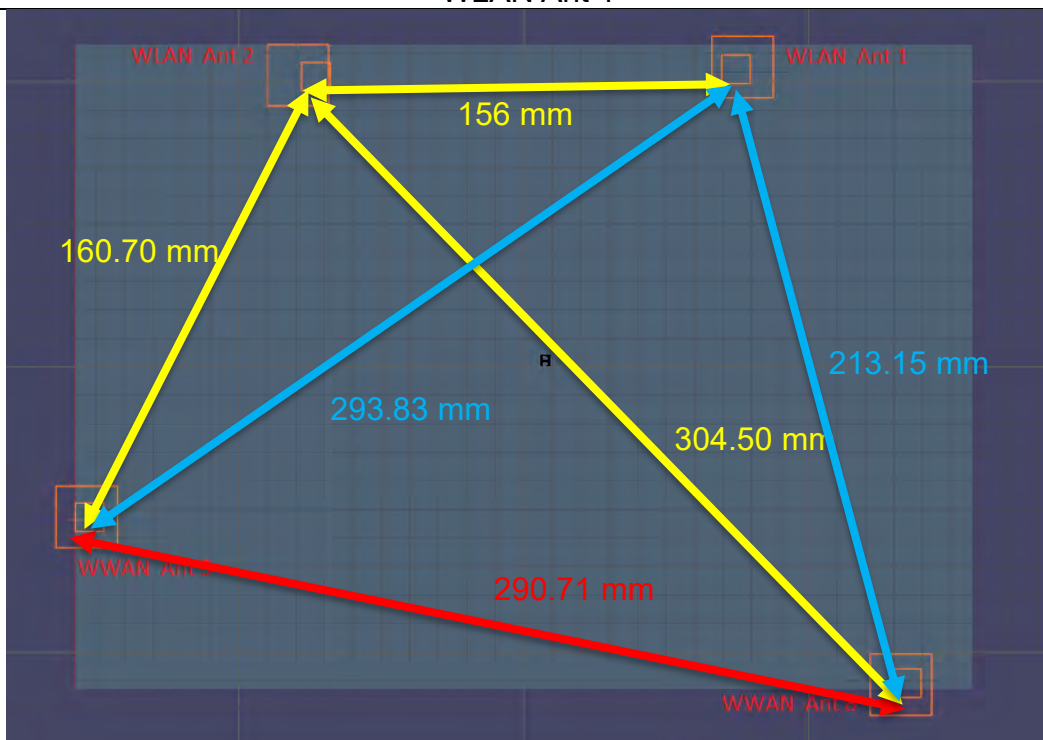
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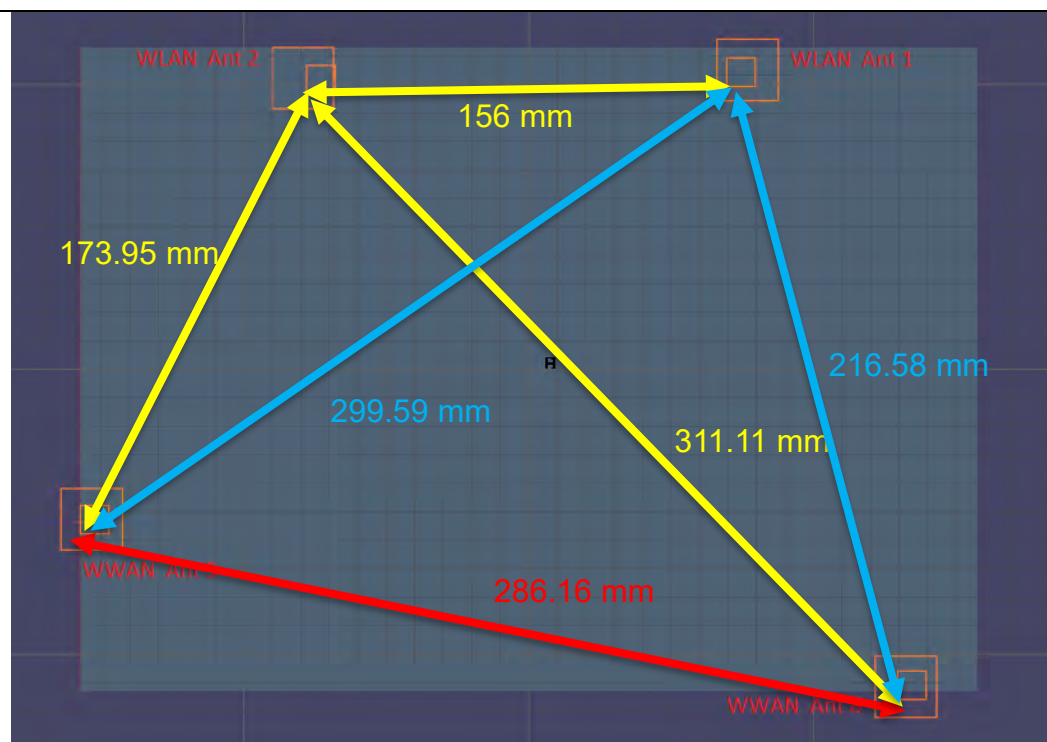
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LTE Band 5_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1

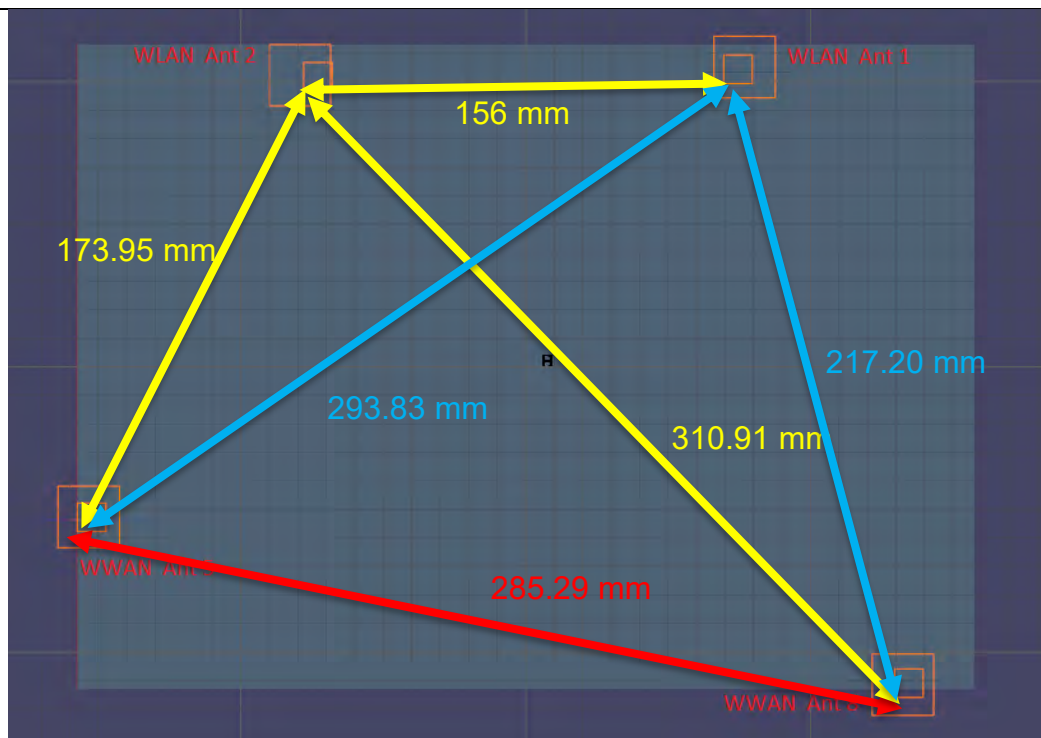


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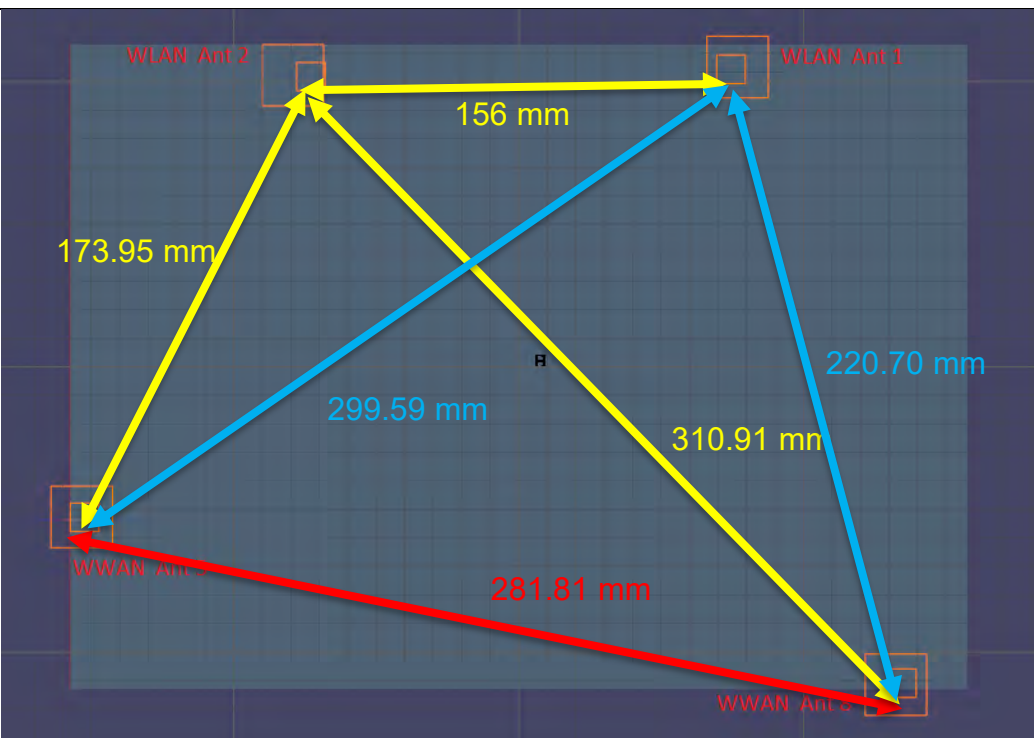
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LTE Band 5_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 5_Ant 5 + LTE Band 7_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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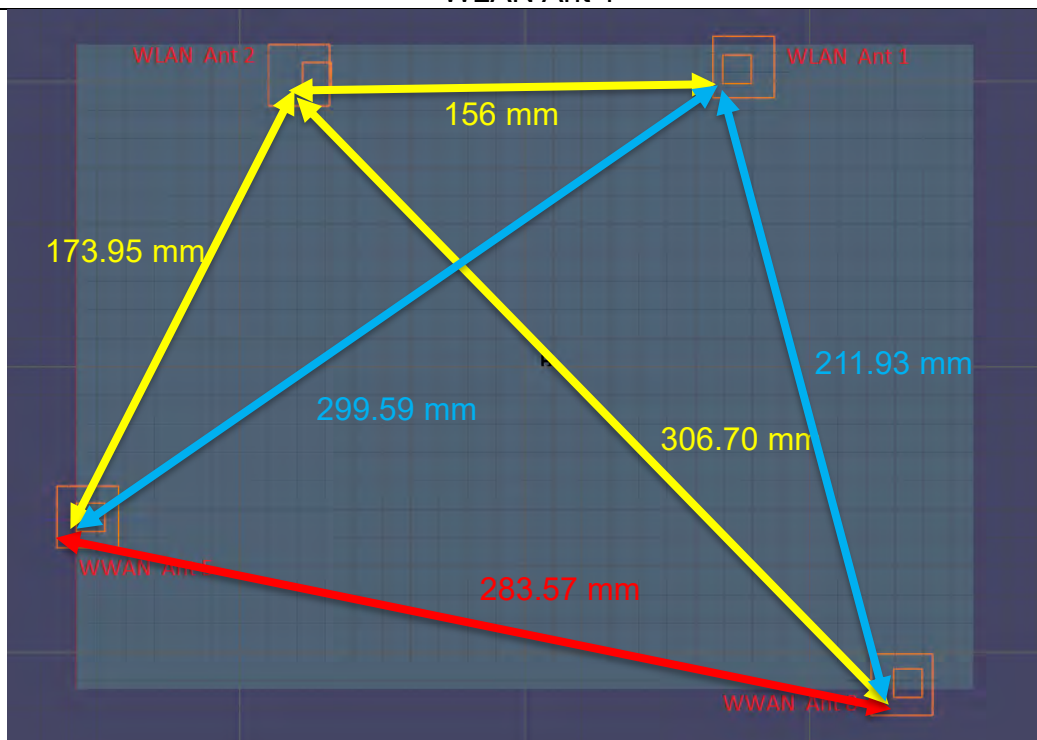
t (886-2) 2299-3279

f (886-2) 2298-0488

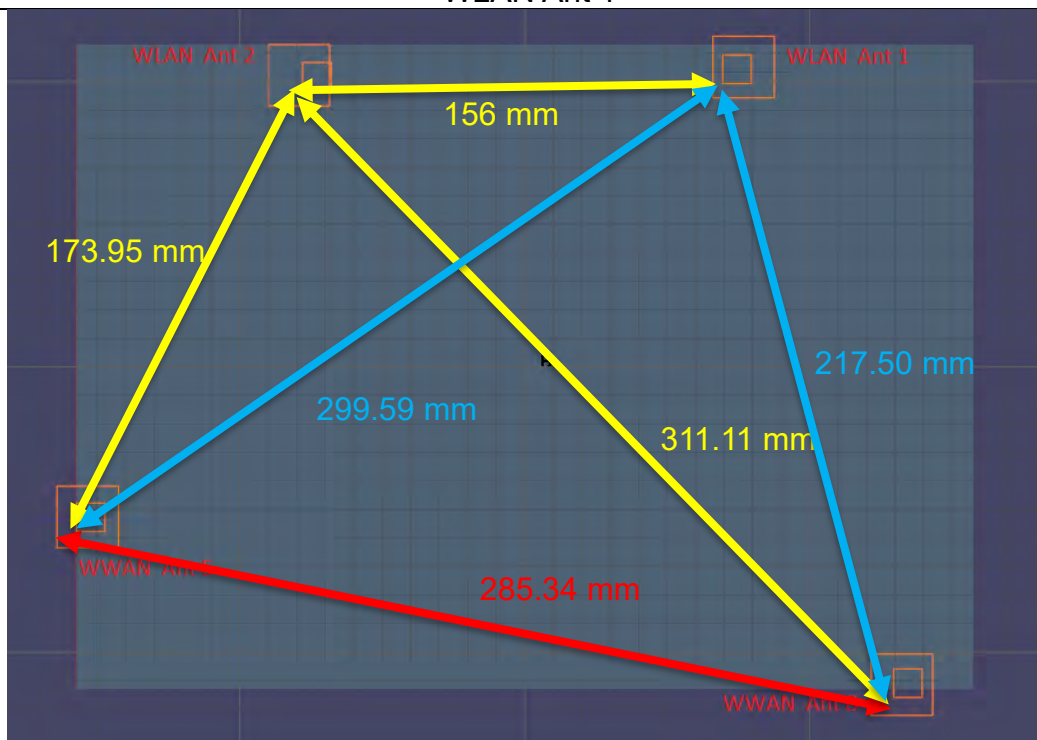
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LTE Band 5_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 5_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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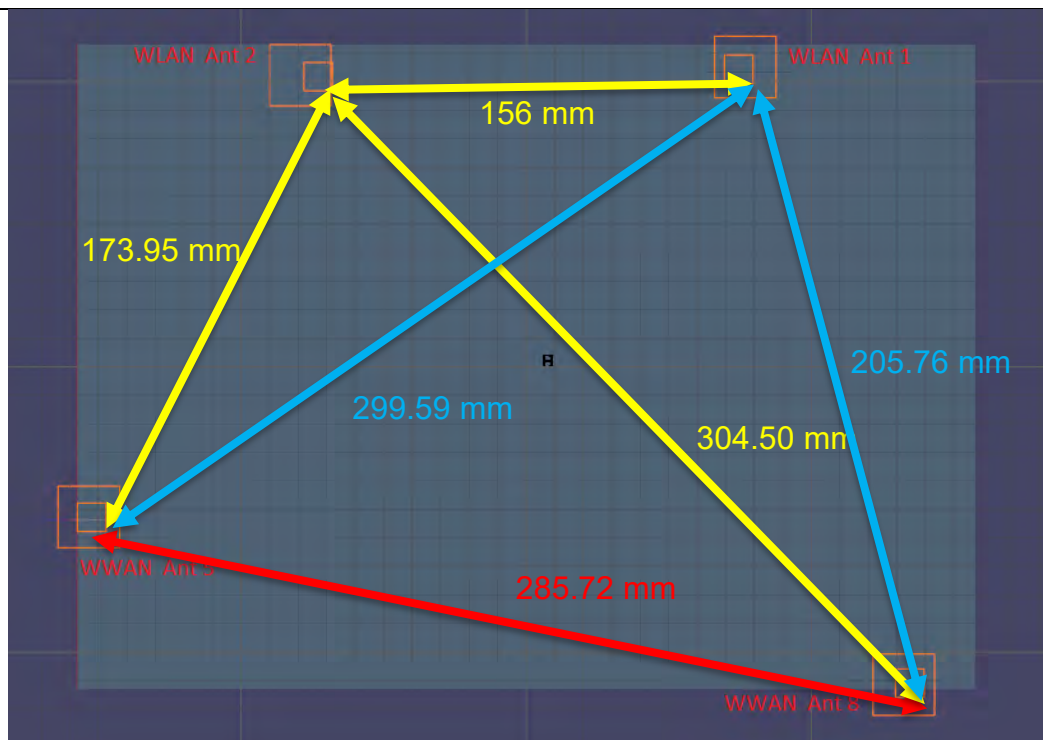
t (886-2) 2299-3279

f (886-2) 2298-0488

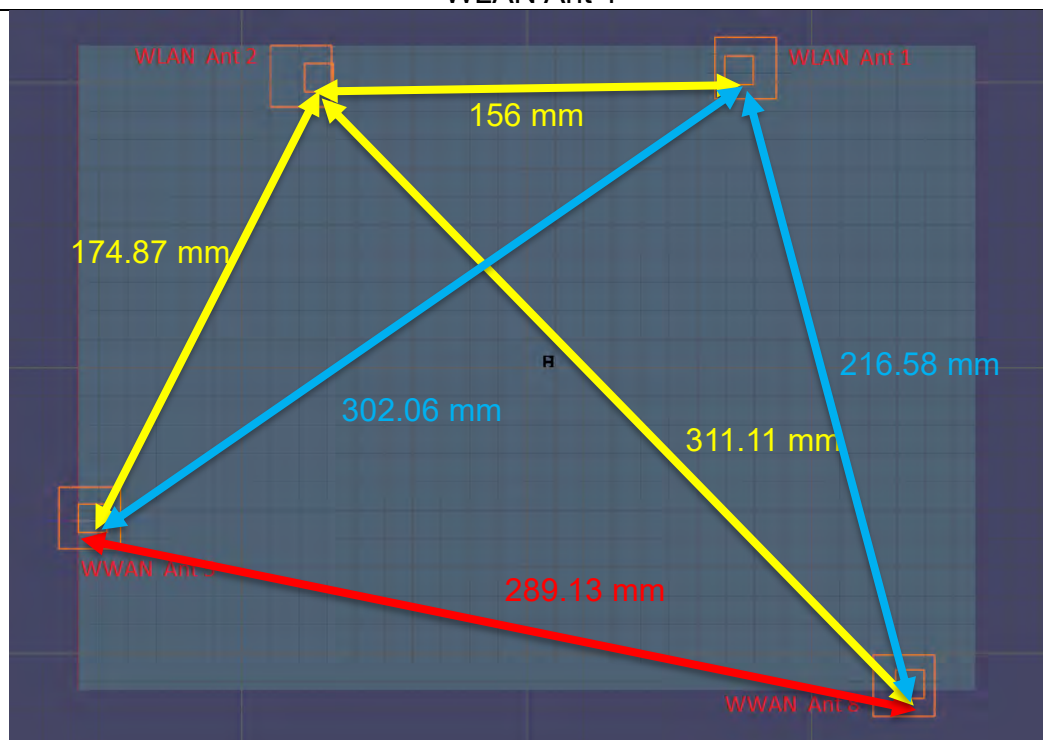
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LTE Band 5_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 12_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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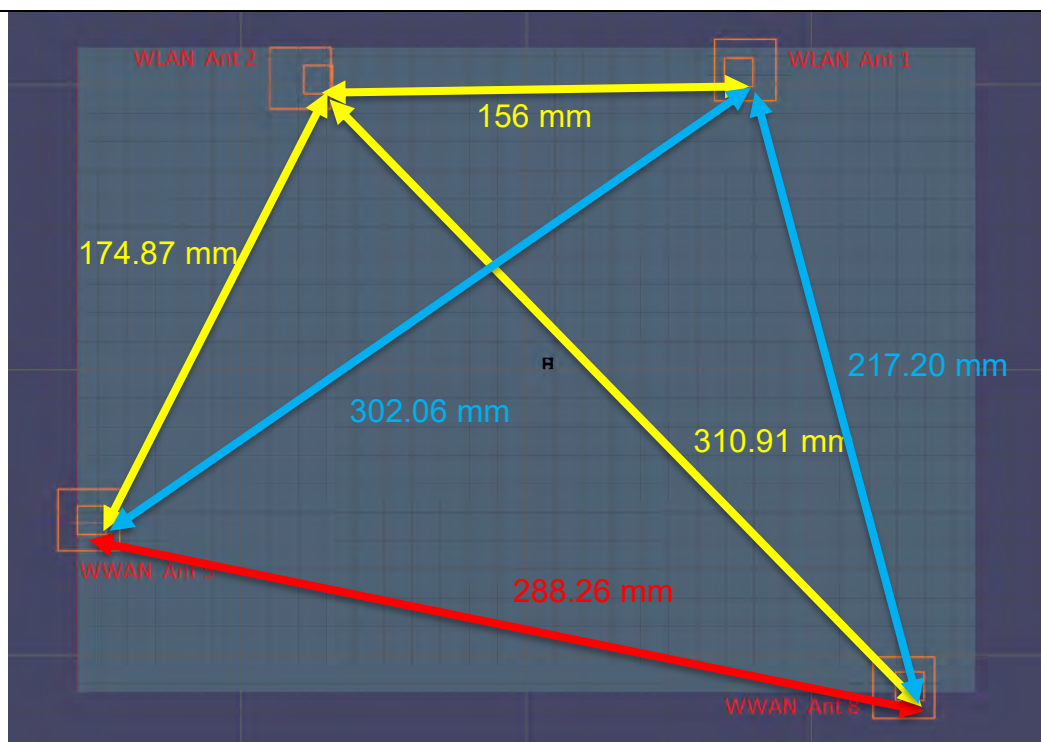
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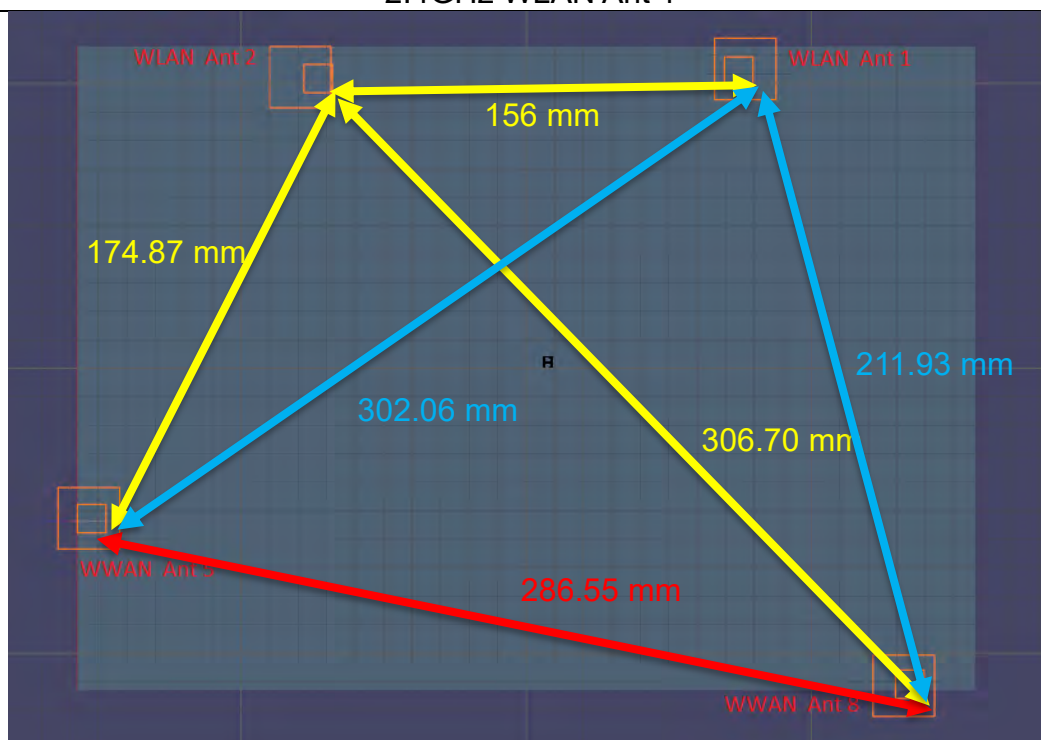
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LTE Band 12_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



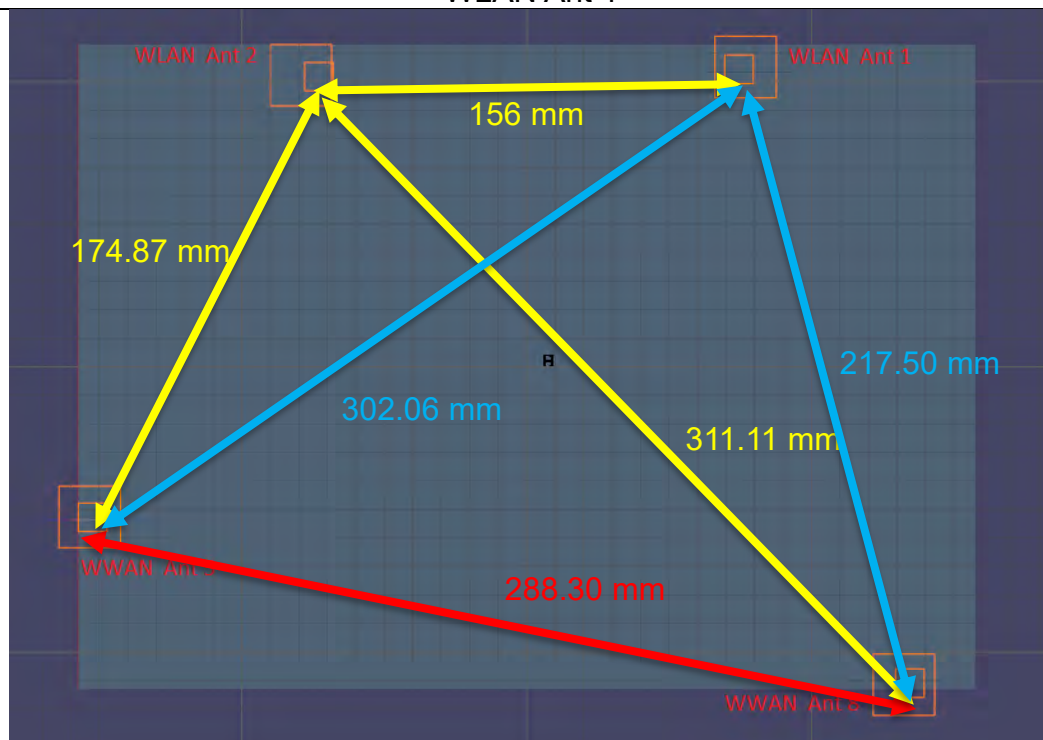
LTE Band 12_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



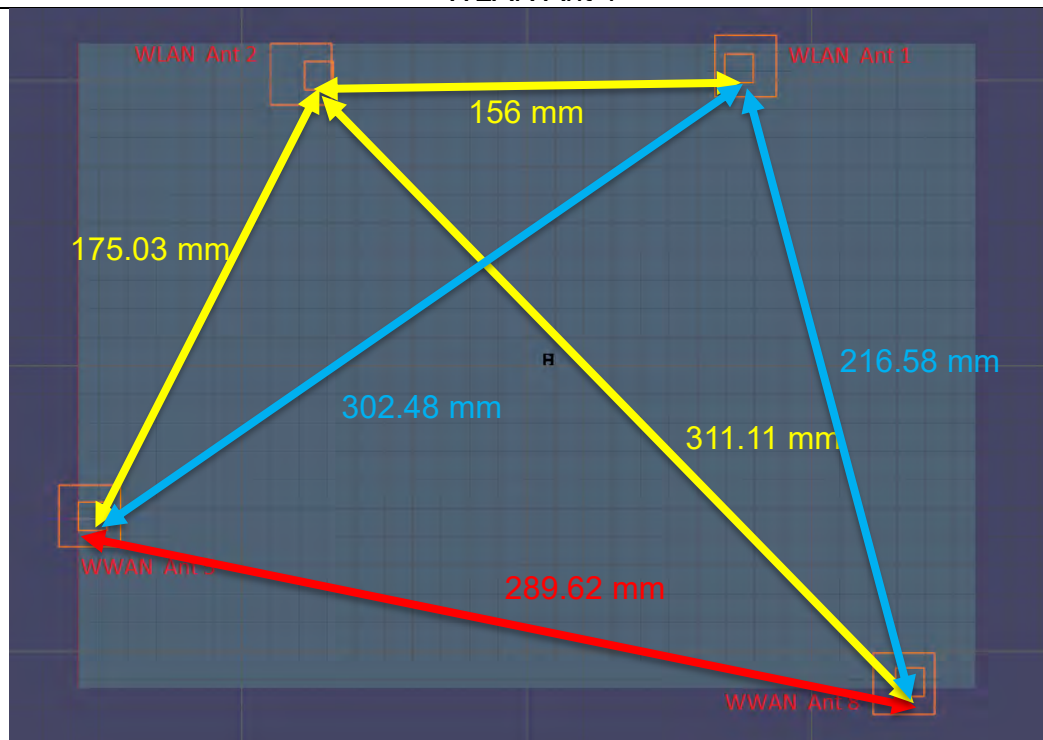
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LTE Band 12_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 13_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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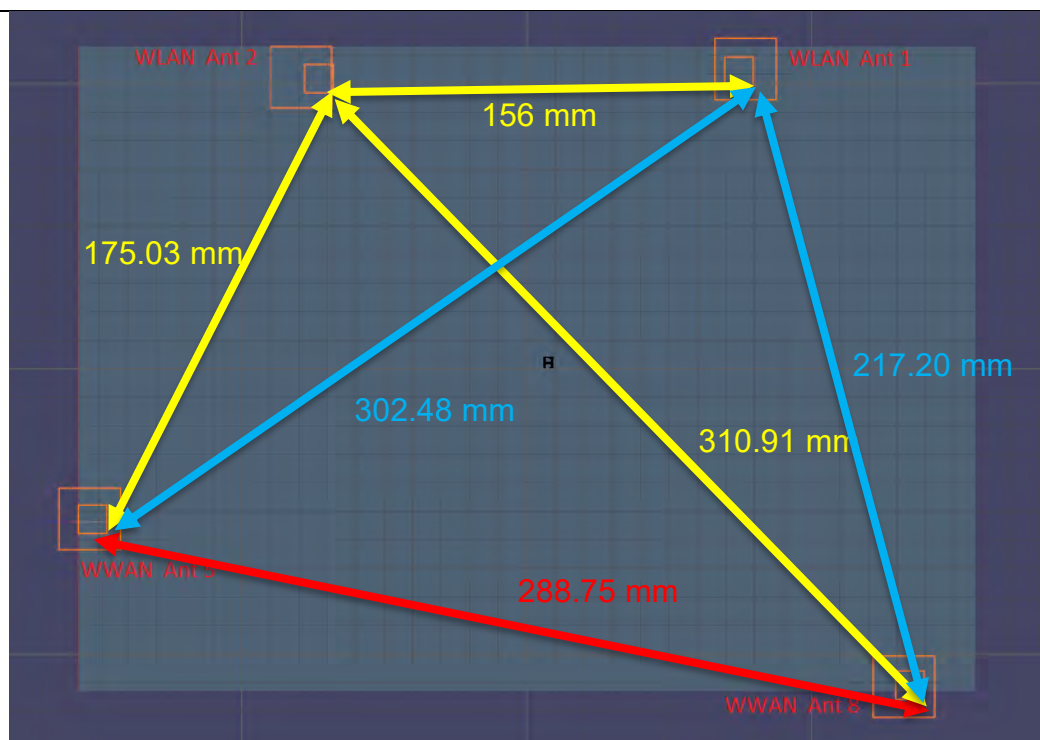
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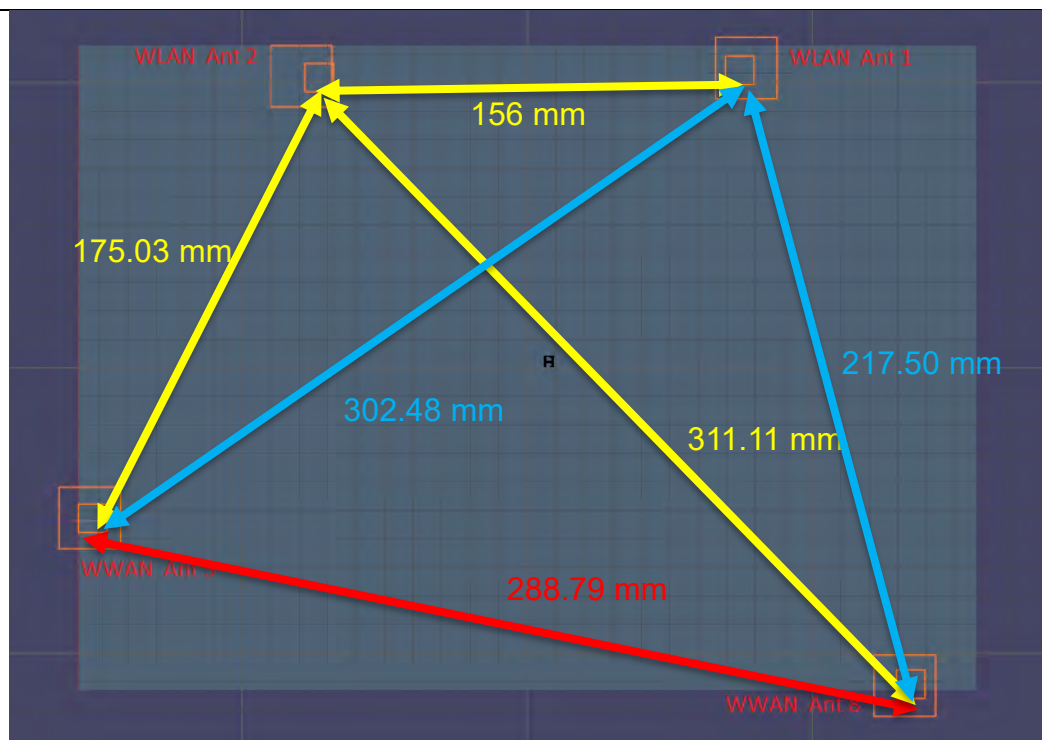
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LTE Band 13_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 13_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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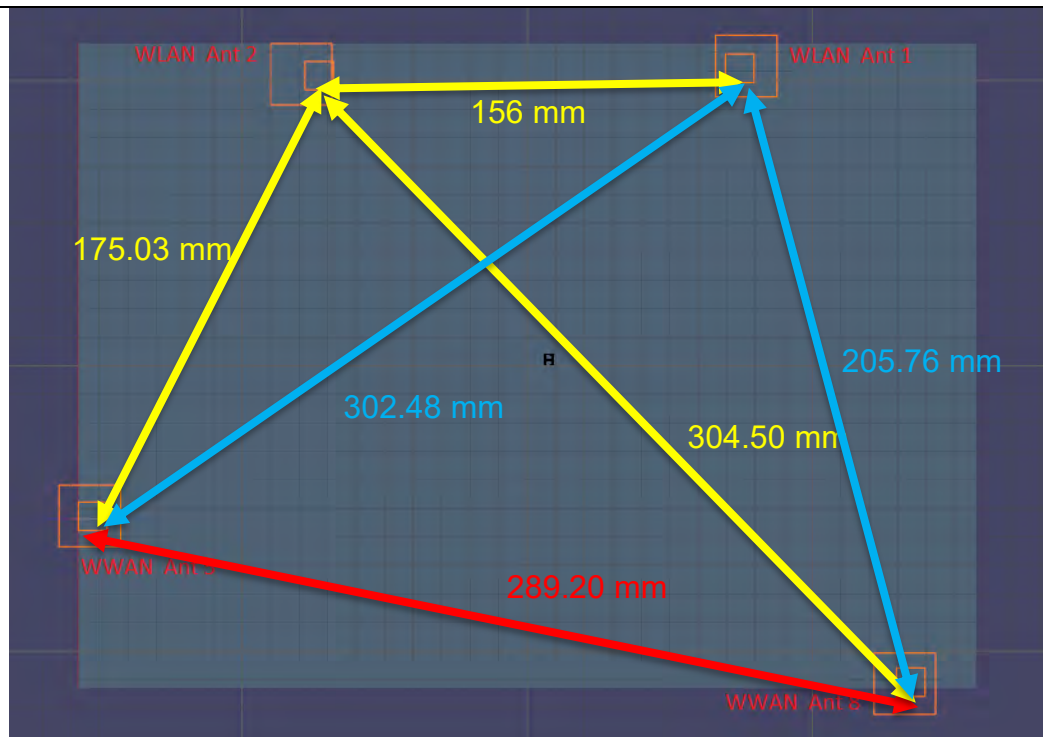
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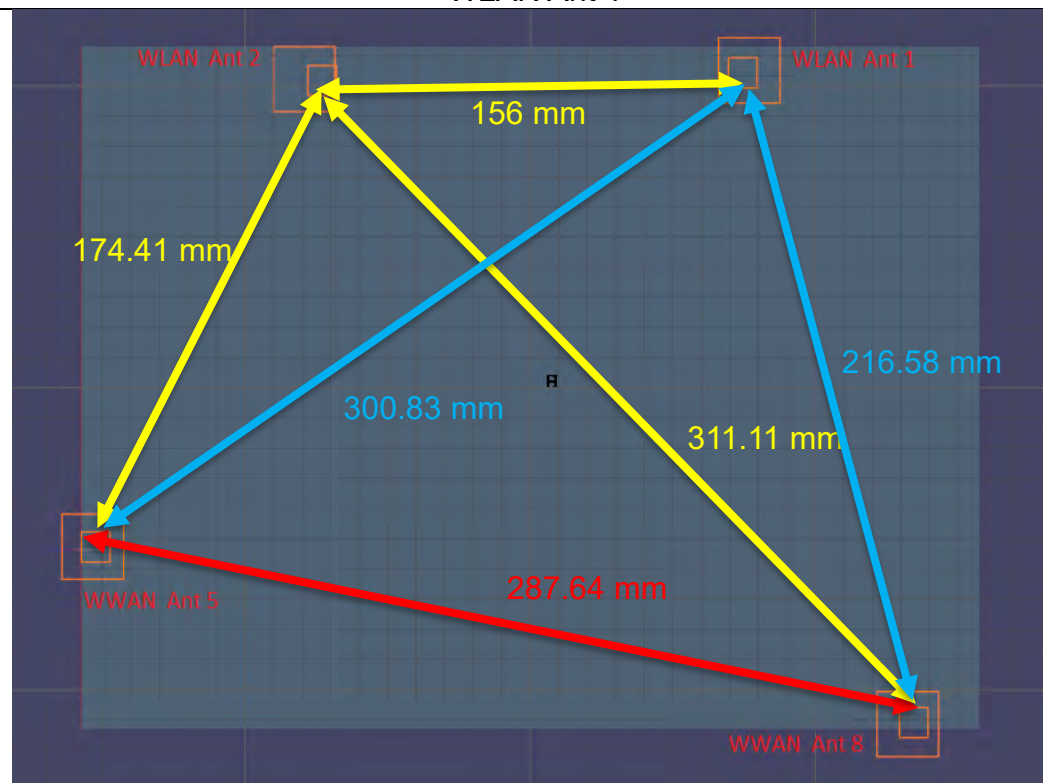
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LTE Band 13_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 14_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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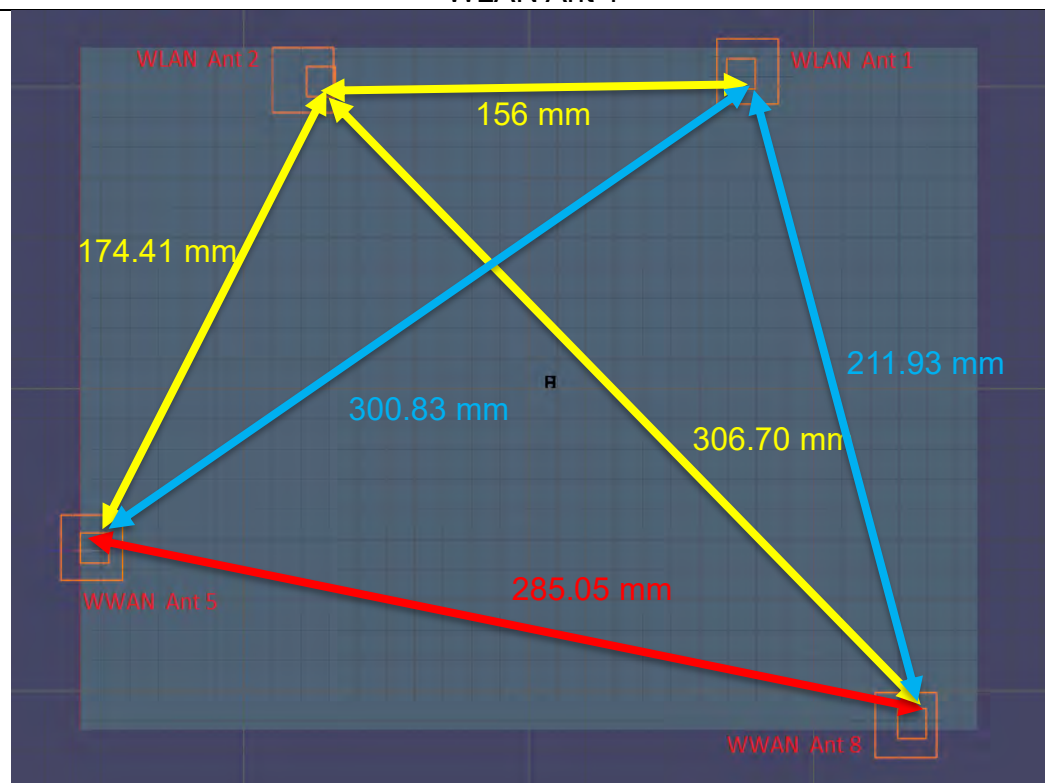
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f (886-2) 2298-0488

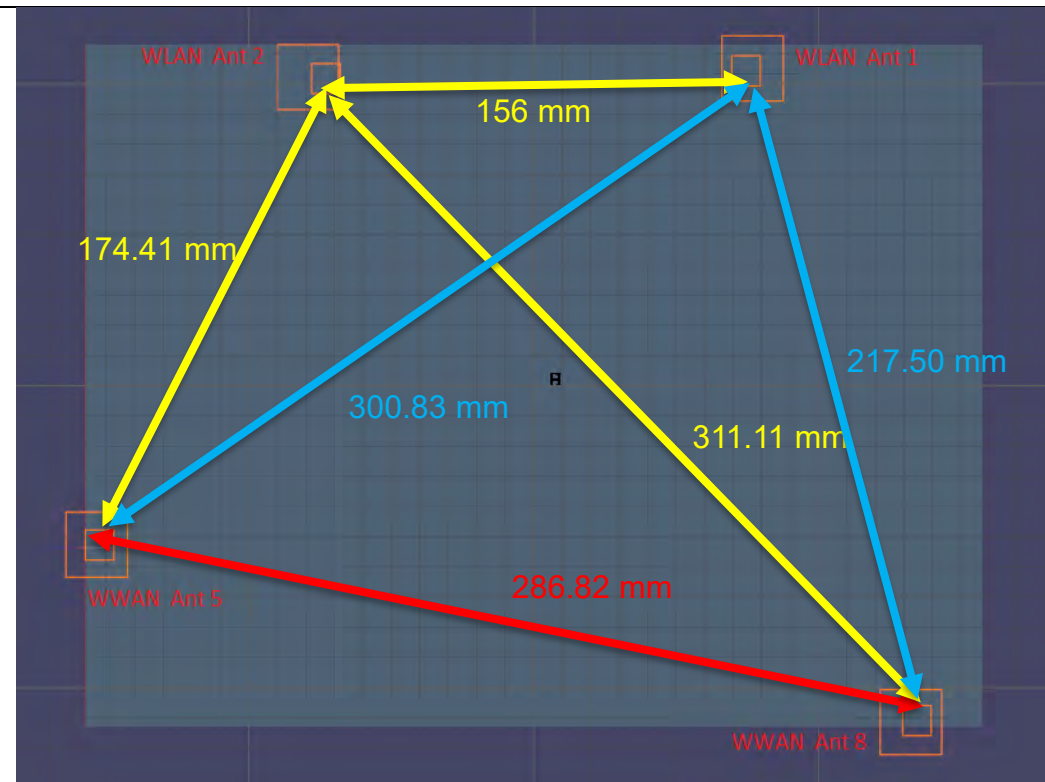
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LTE Band 14_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



LTE Band 14_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1

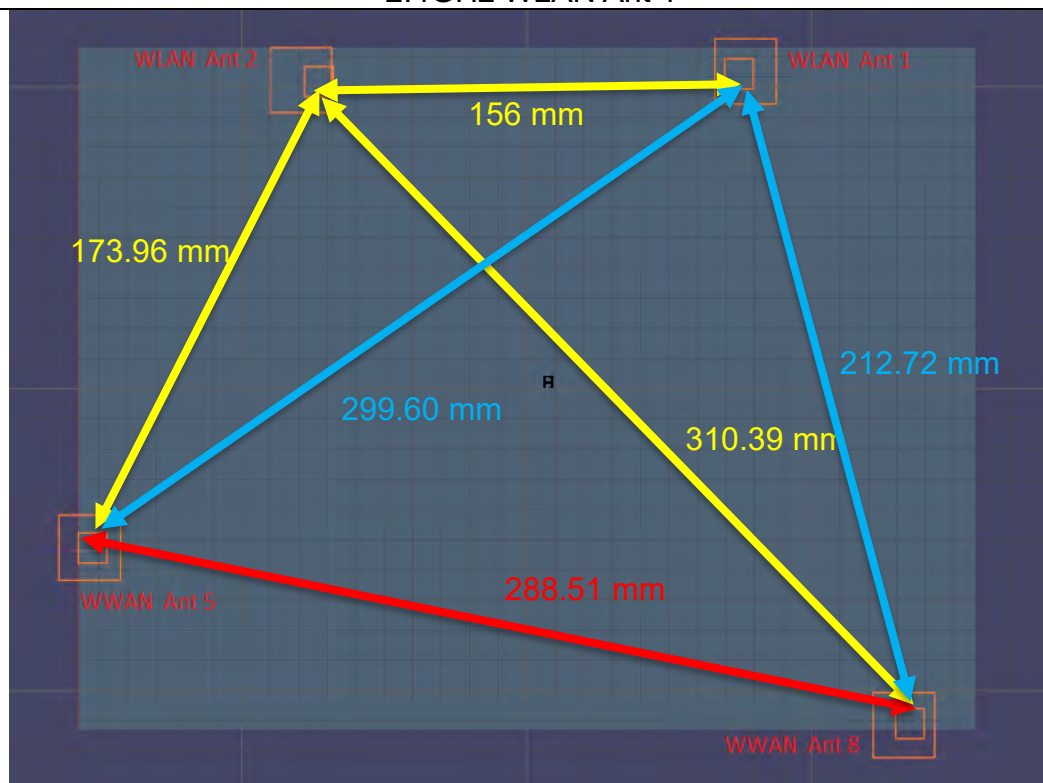


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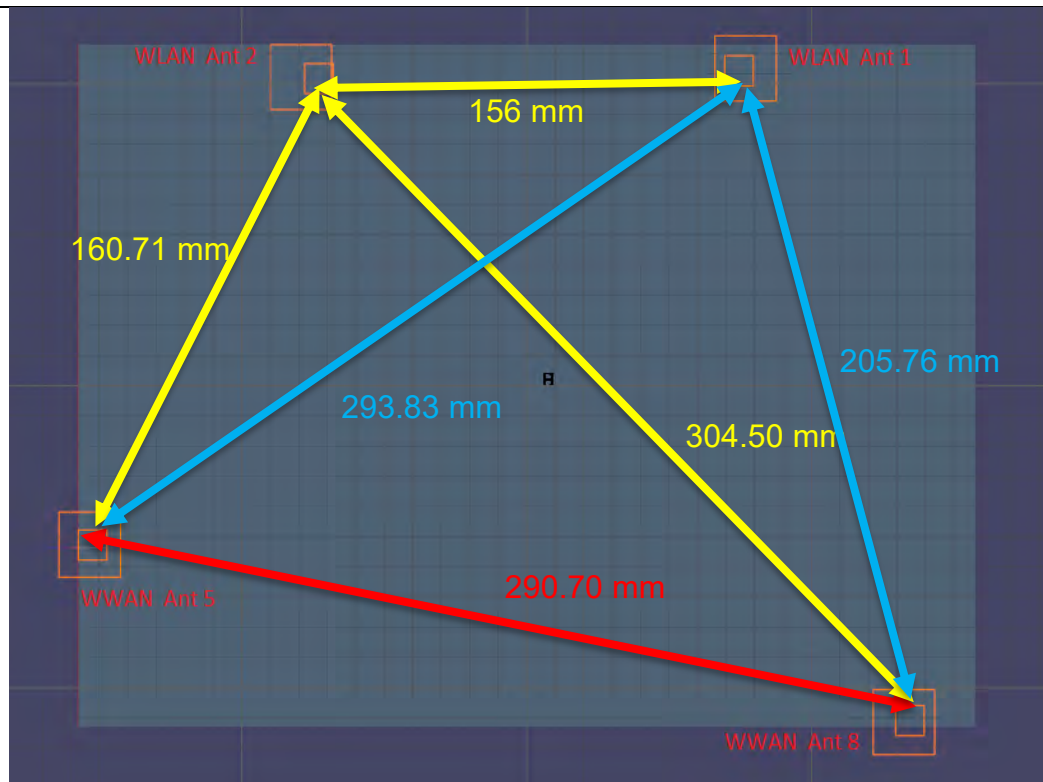
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LTE Band 26_FCC_Ant 5 + LTE Band 25_Ant 8 + 2.4GHz WLAN Ant 2+
2.4GHz WLAN Ant 1



LTE Band 66_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz
WLAN Ant 1

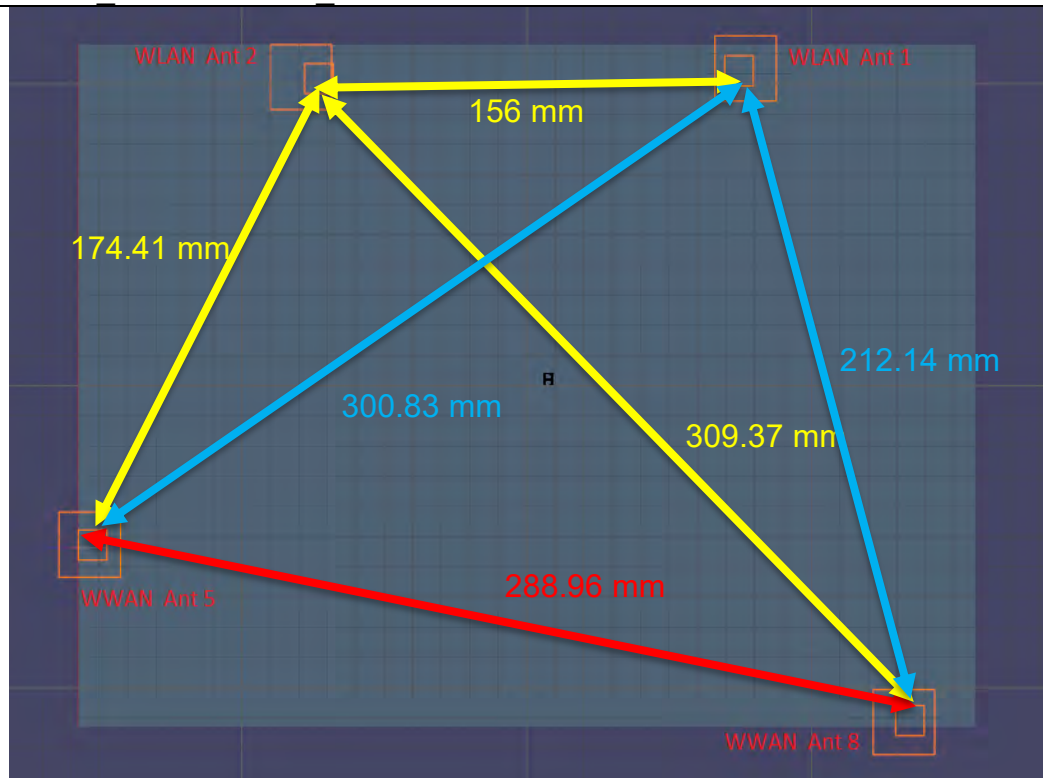


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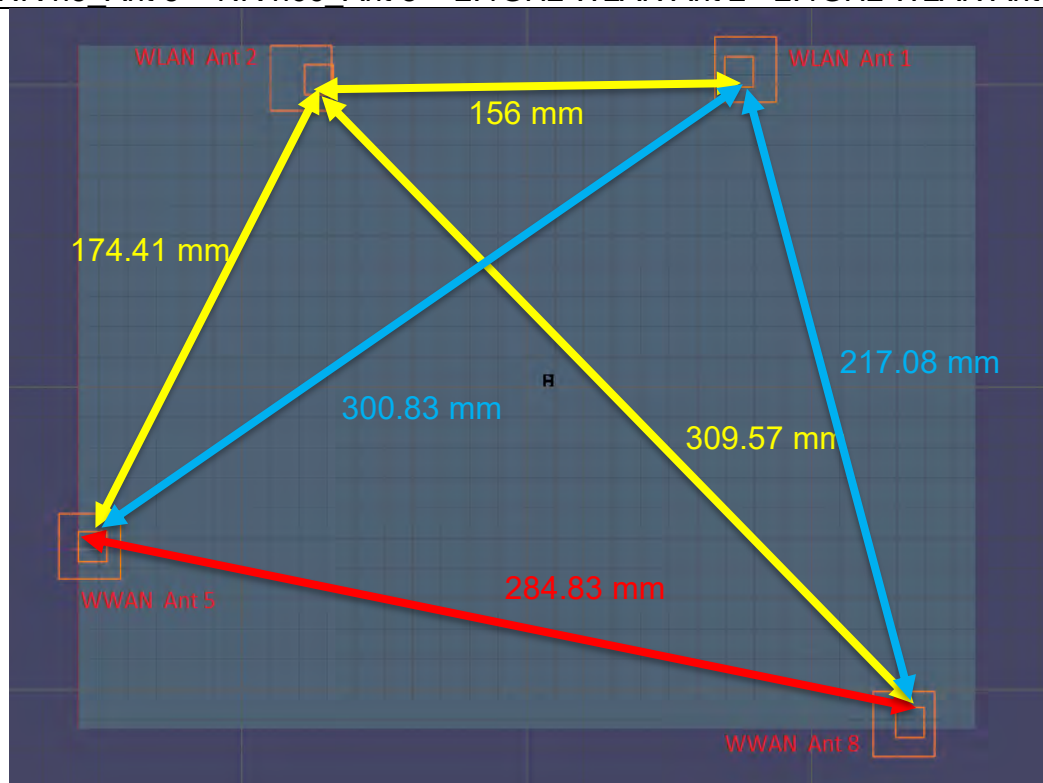
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NR n5 Ant 5 + NR n2 Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



NR n5 Ant 5 + NR n66 Ant 8 + 2.4GHz WLAN Ant 2+ 2.4GHz WLAN Ant 1



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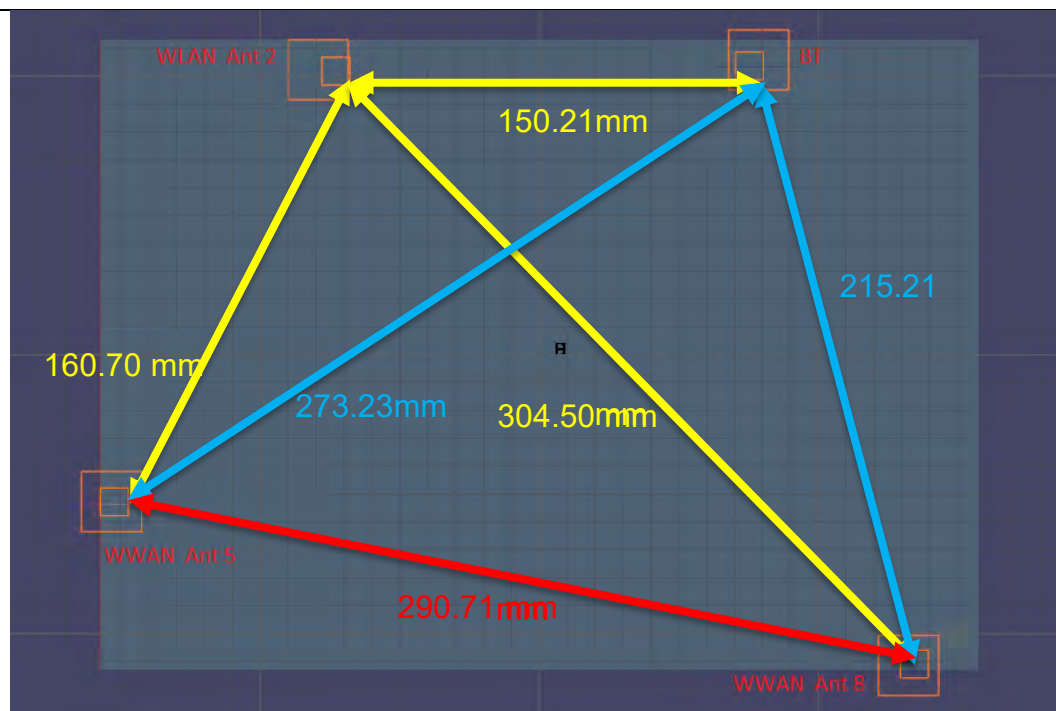
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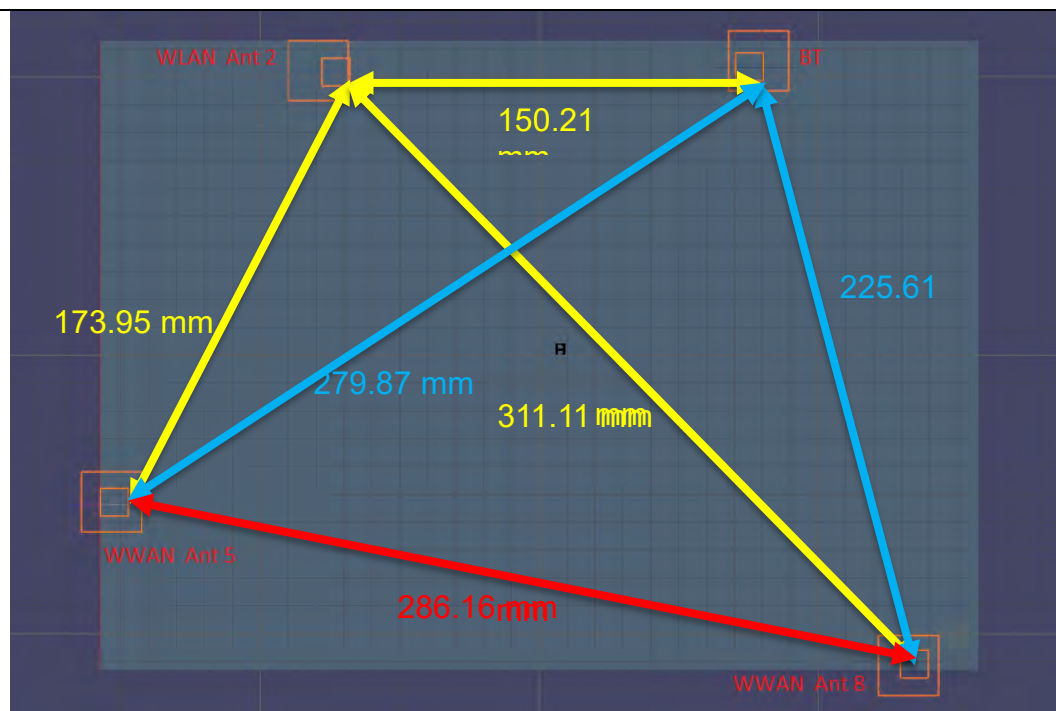
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LTE Band 2_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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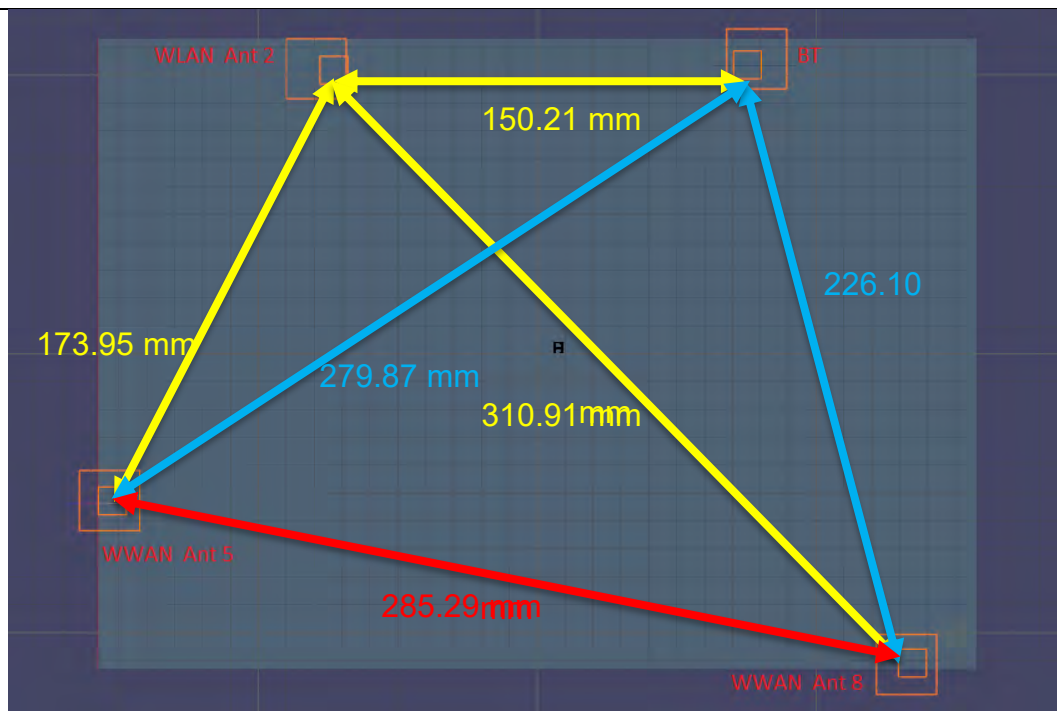
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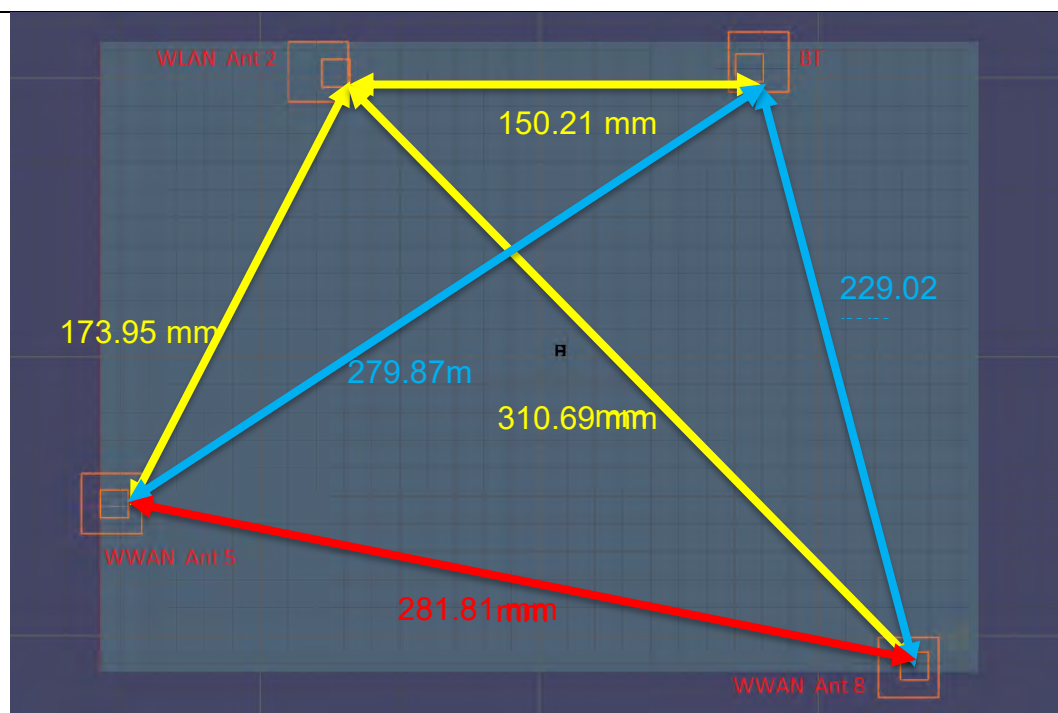
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LTE Band 5_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 7_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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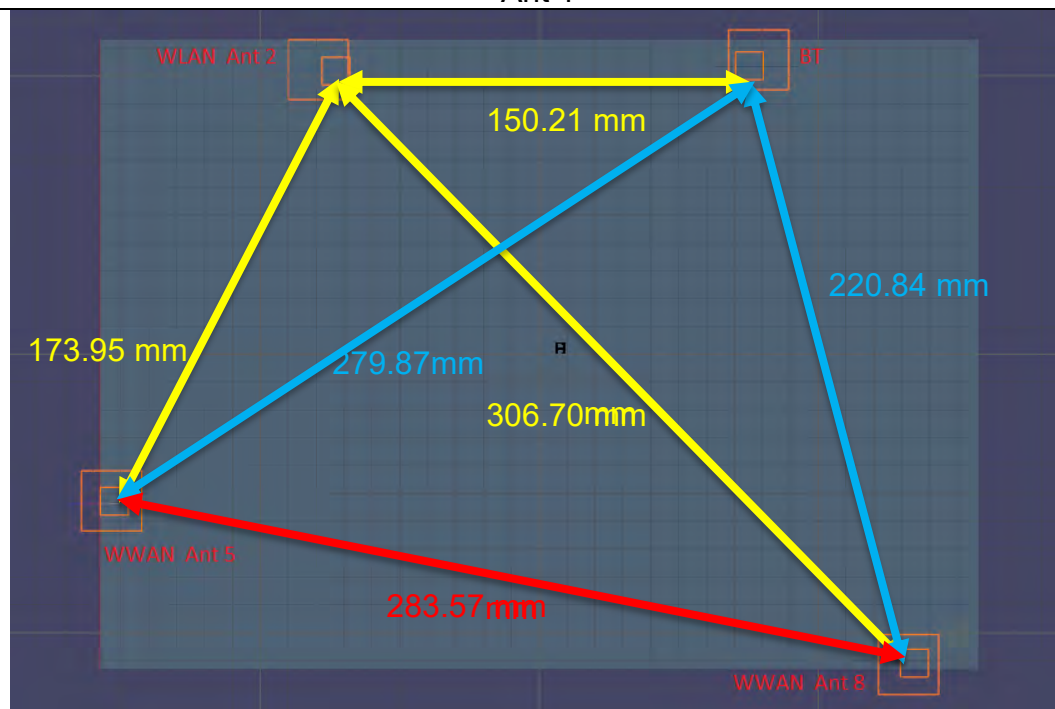
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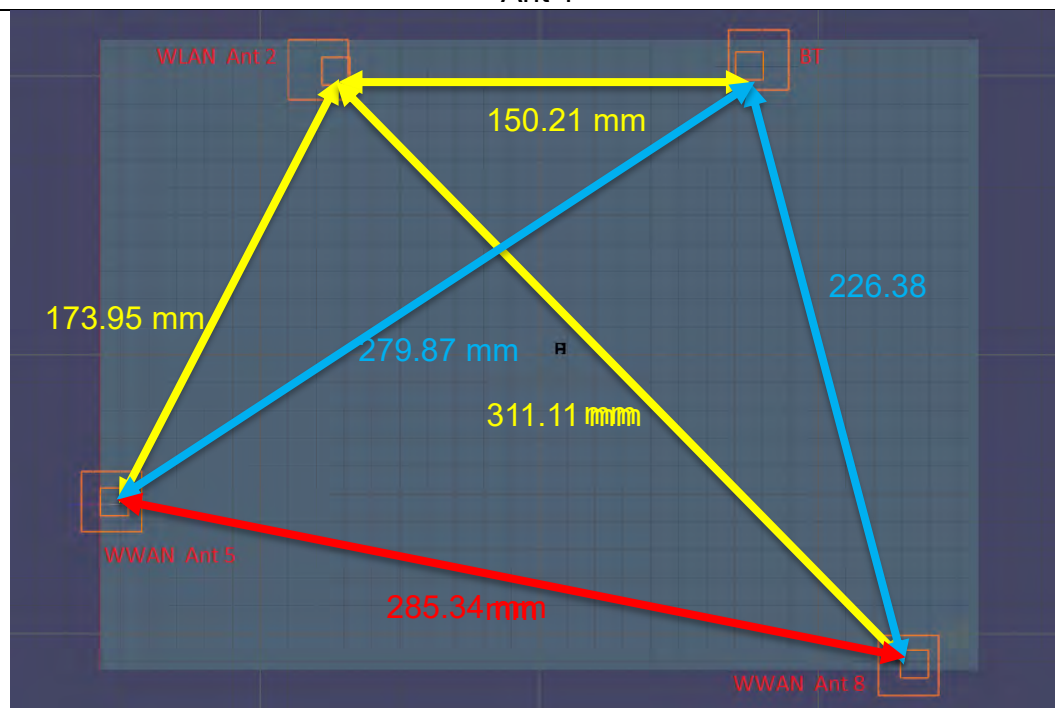
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LTE Band 5_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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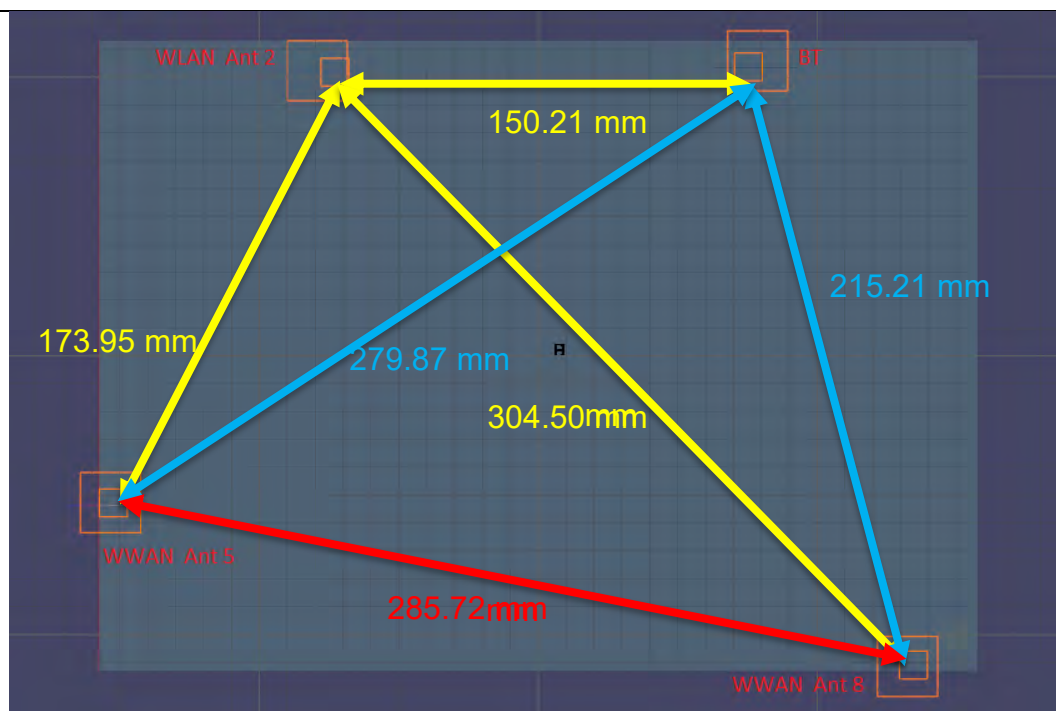
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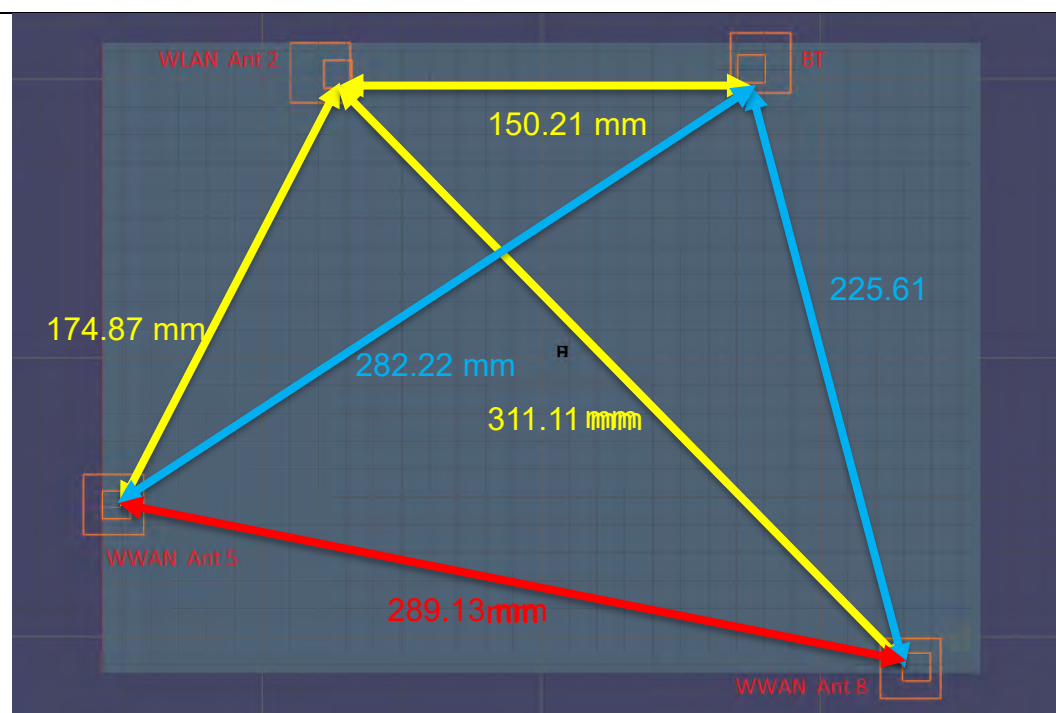
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LTE Band 5_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 12_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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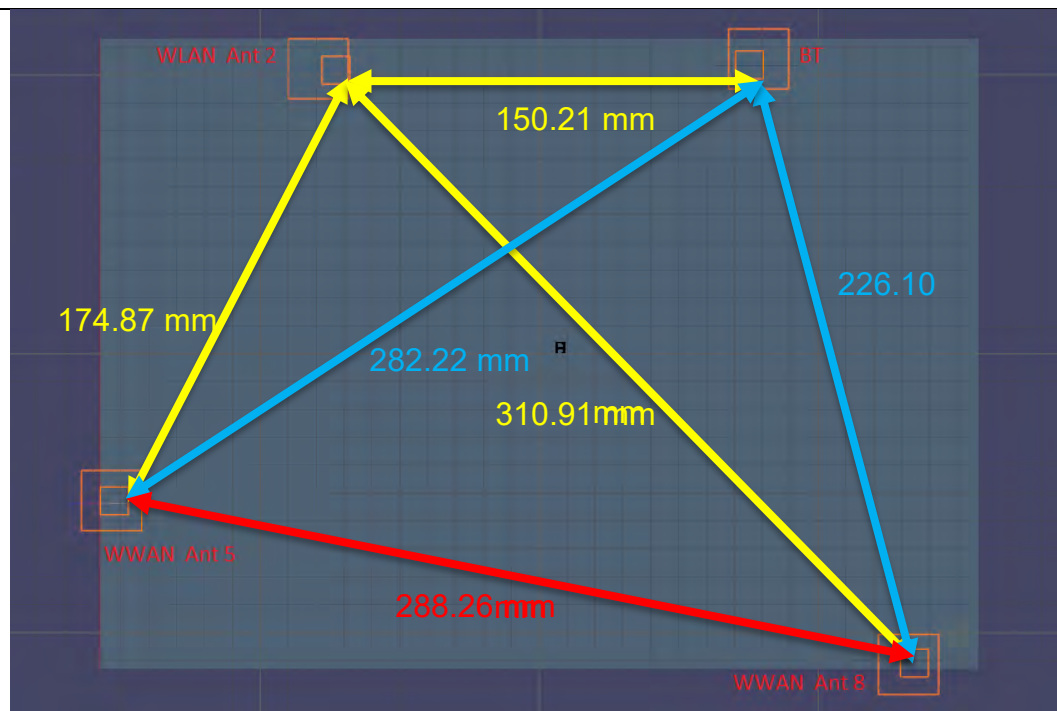
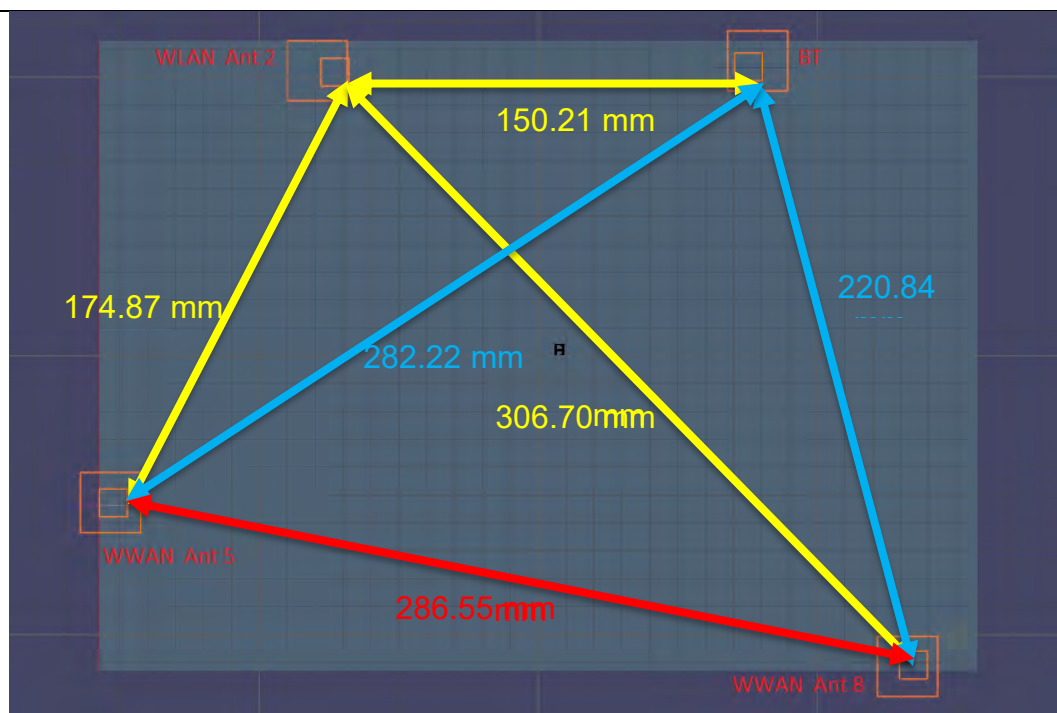
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f (886-2) 2298-0488

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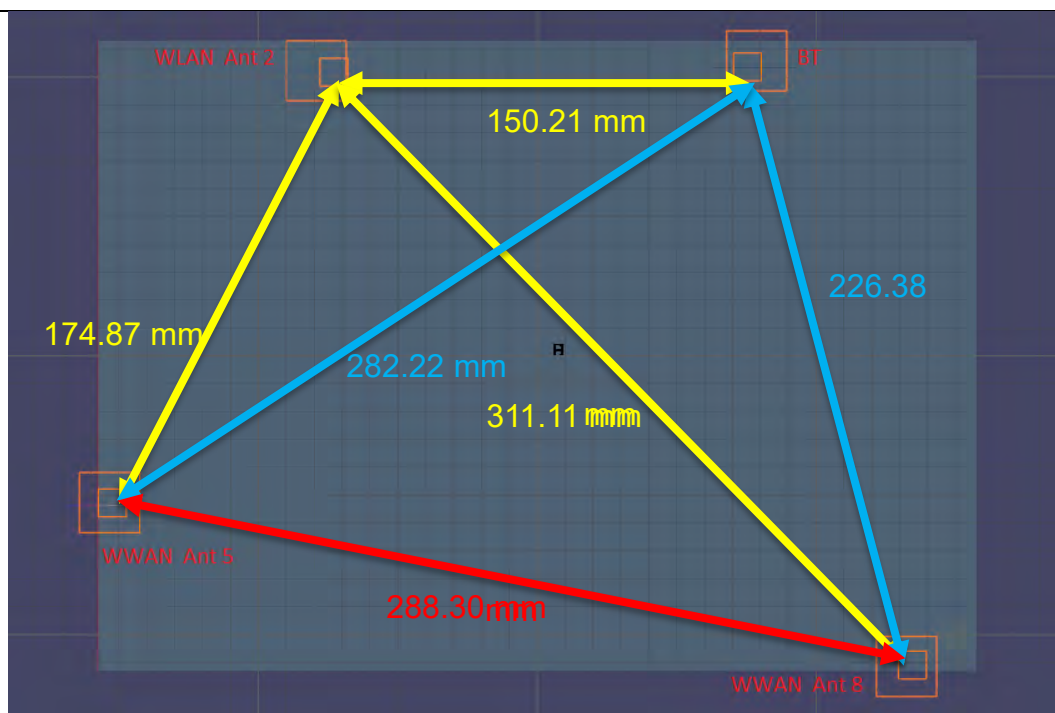
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LTE Band 12_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1LTE Band 12_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1

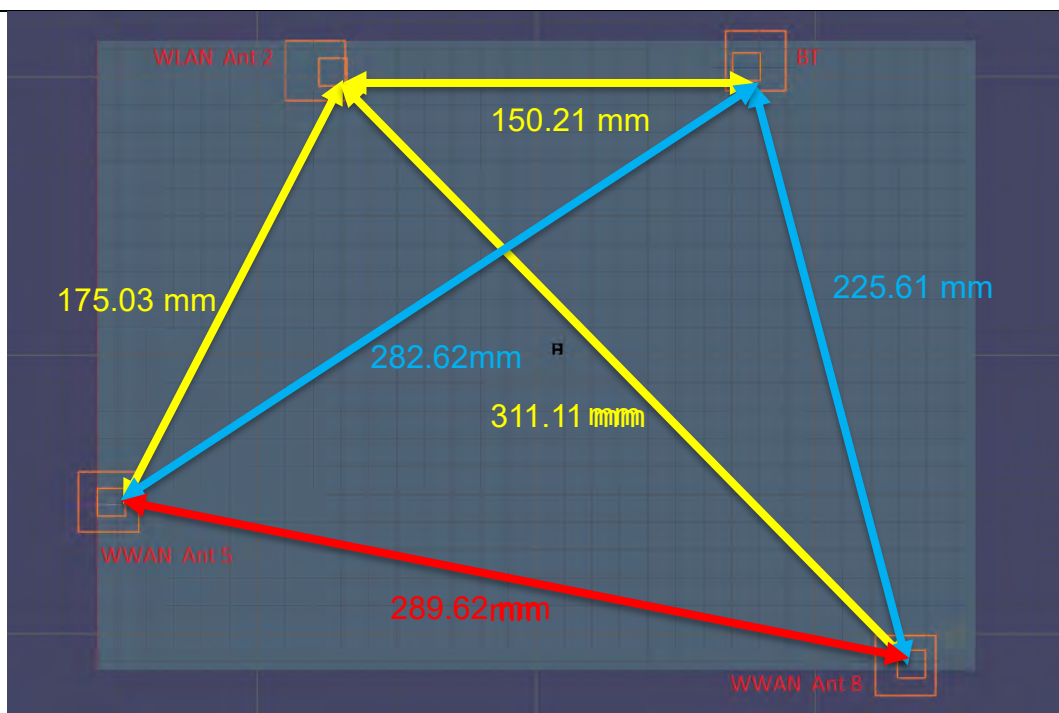
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LTE Band 12_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1



LTE Band 13_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1



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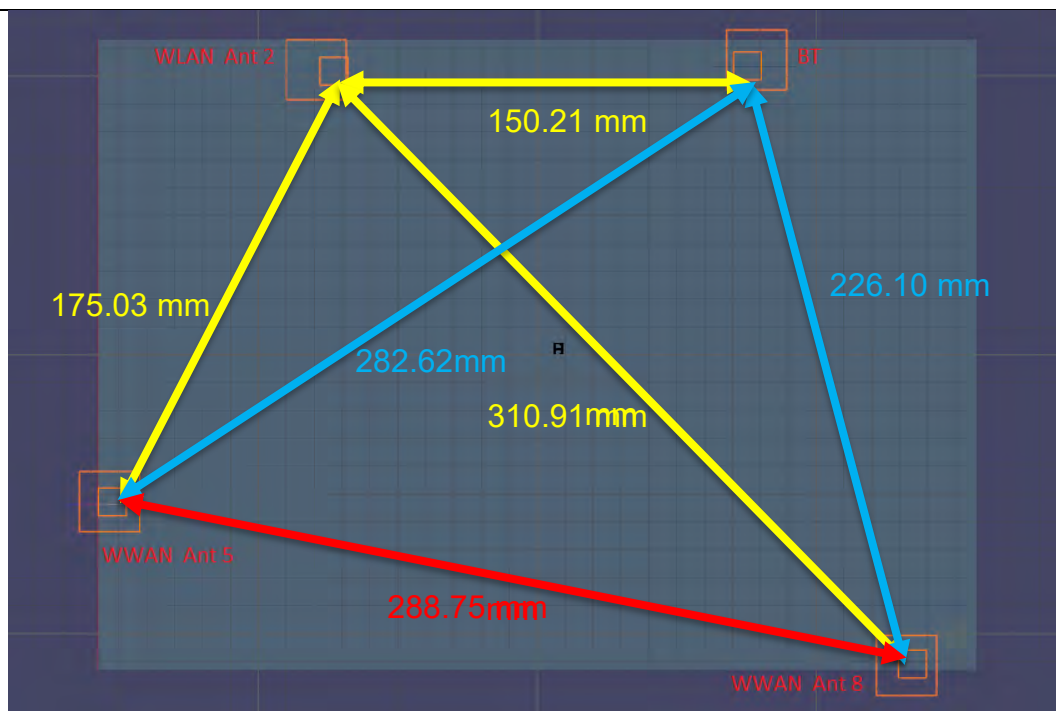
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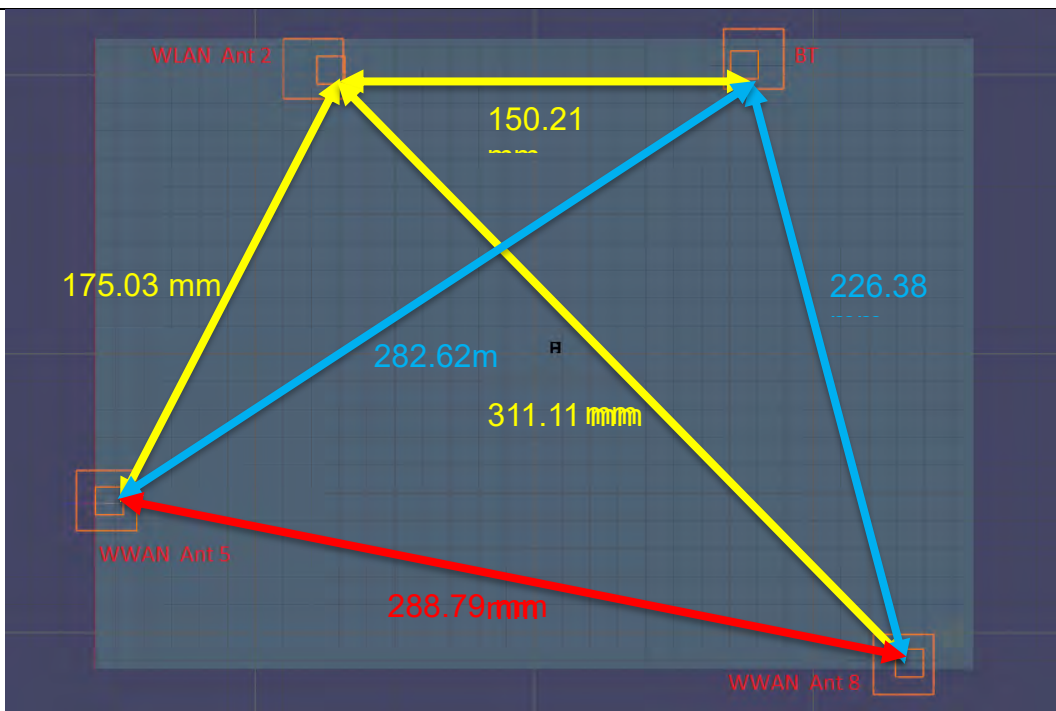
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LTE Band 13_Ant 5 + LTE Band 4_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 13_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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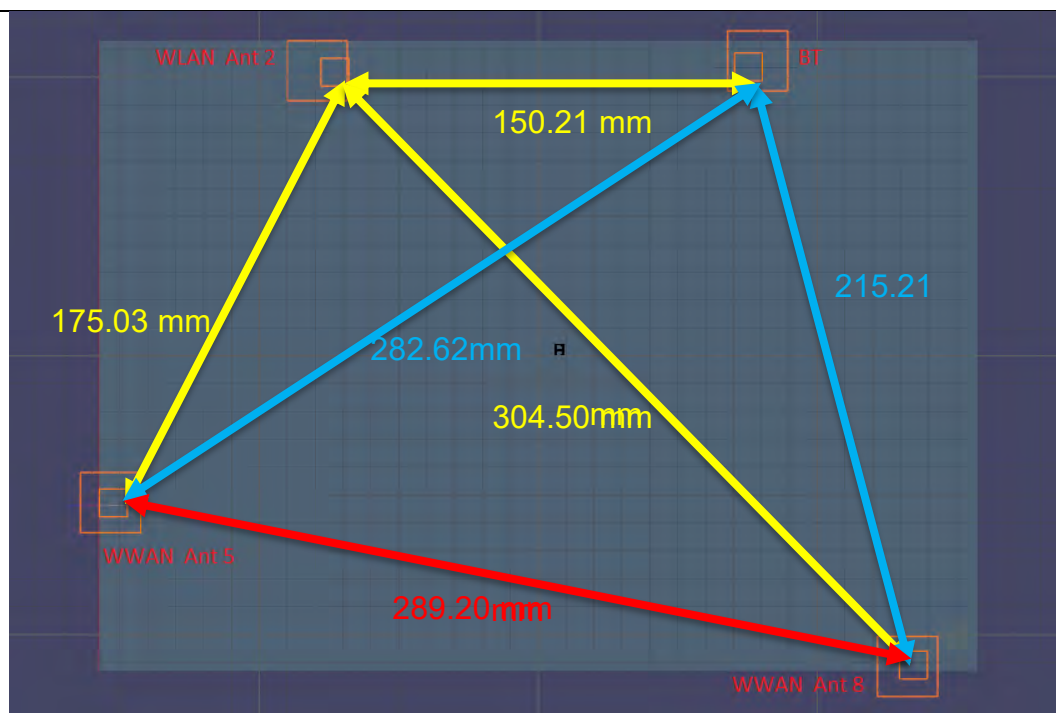
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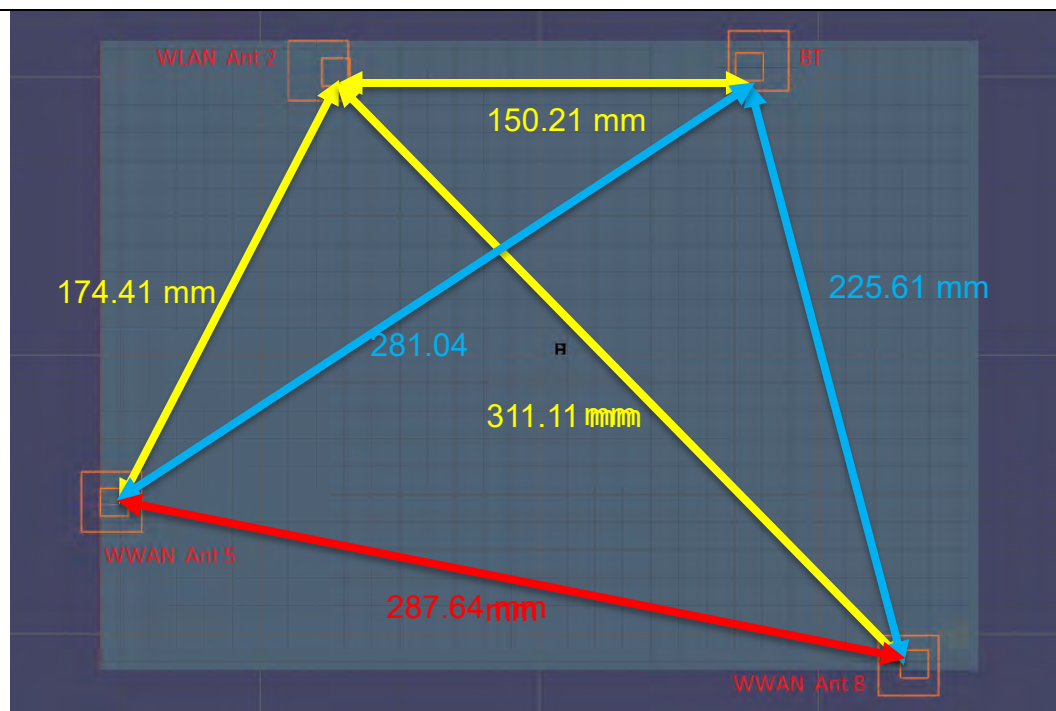
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LTE Band 13_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 2_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth
Ant 1



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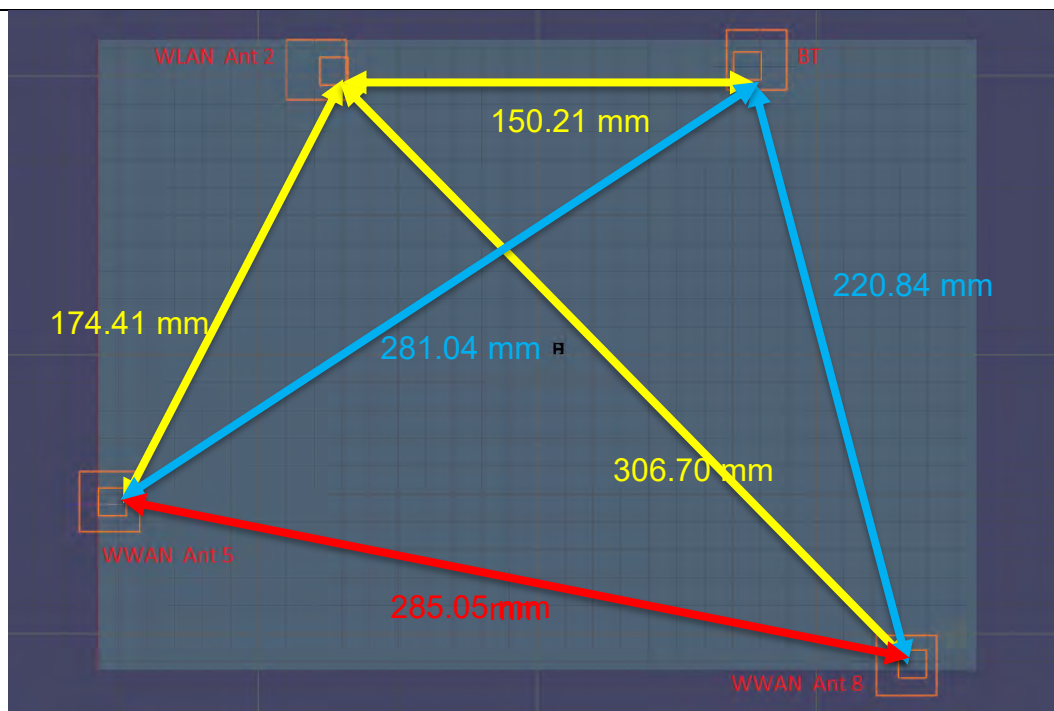
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f (886-2) 2298-0488

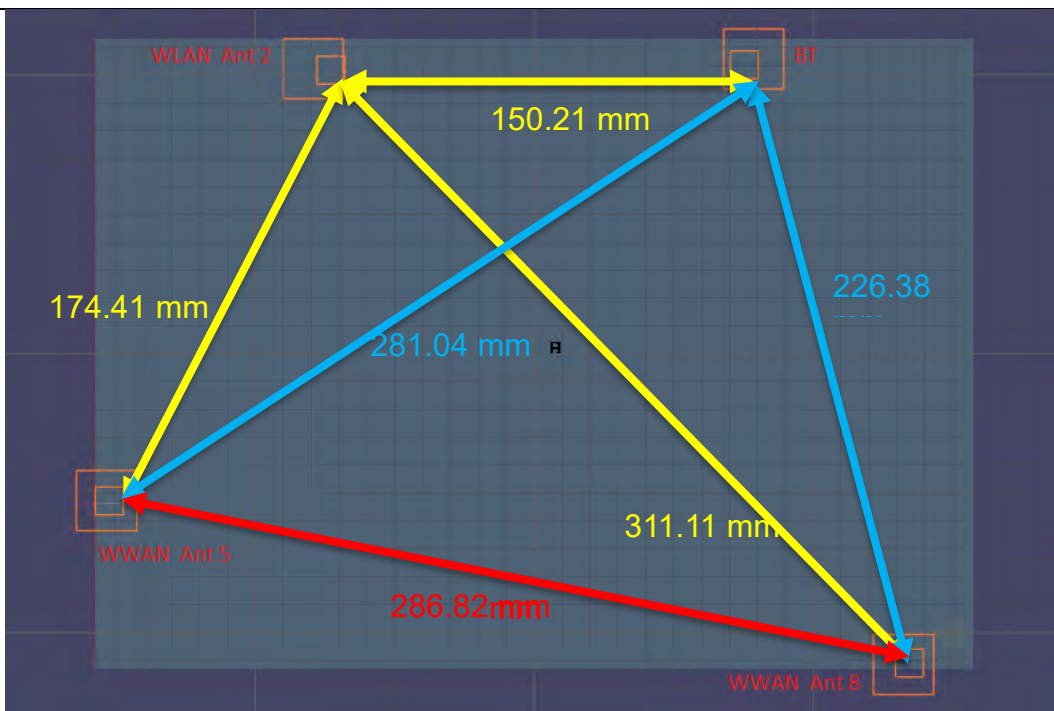
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LTE Band 14_Ant 5 + LTE Band 30_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 66_Ant 8 + 2.4GHz WLAN Ant 2+
Bluetooth Ant 1



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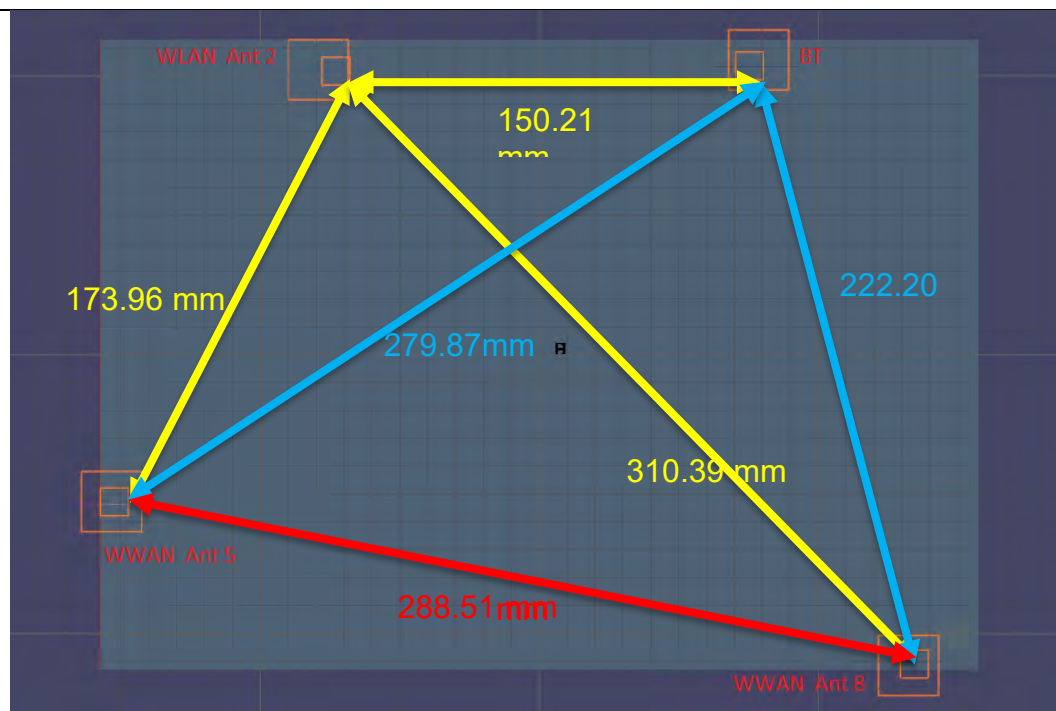
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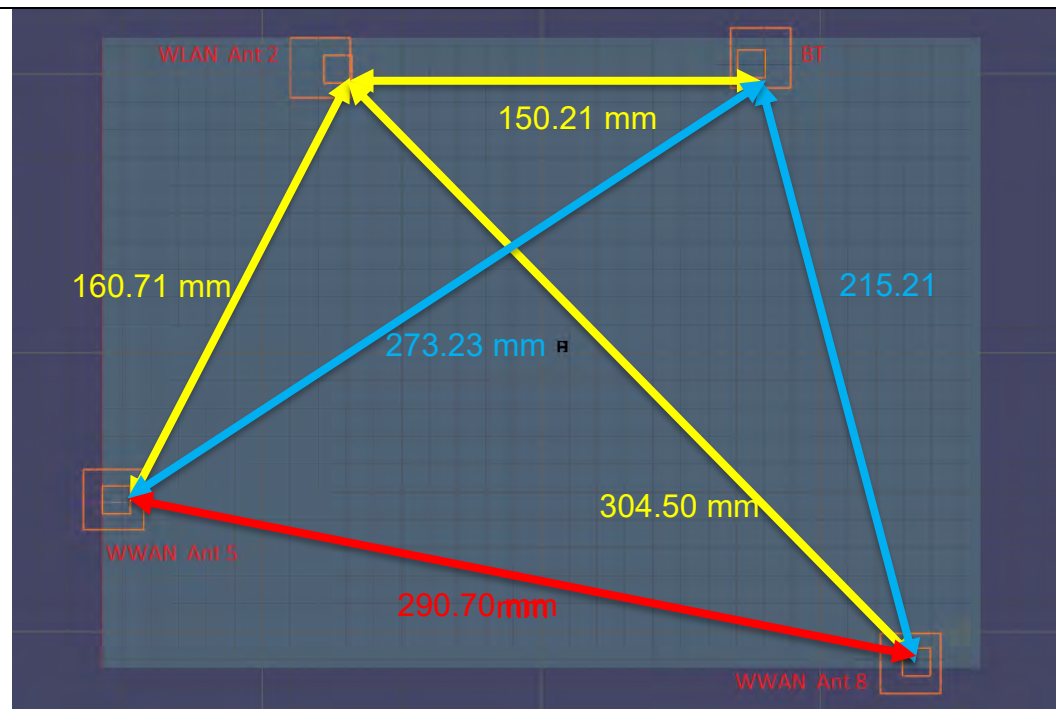
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LTE Band 26_FCC_Ant 5 + LTE Band 25_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



LTE Band 66_Ant 5 + LTE Band 48_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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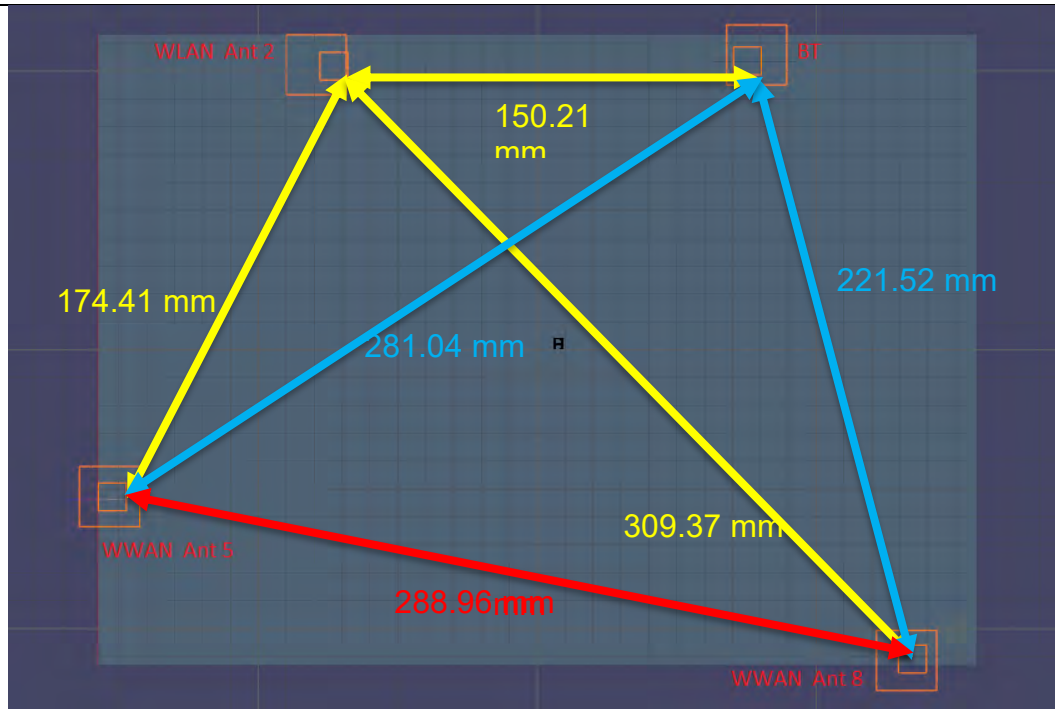
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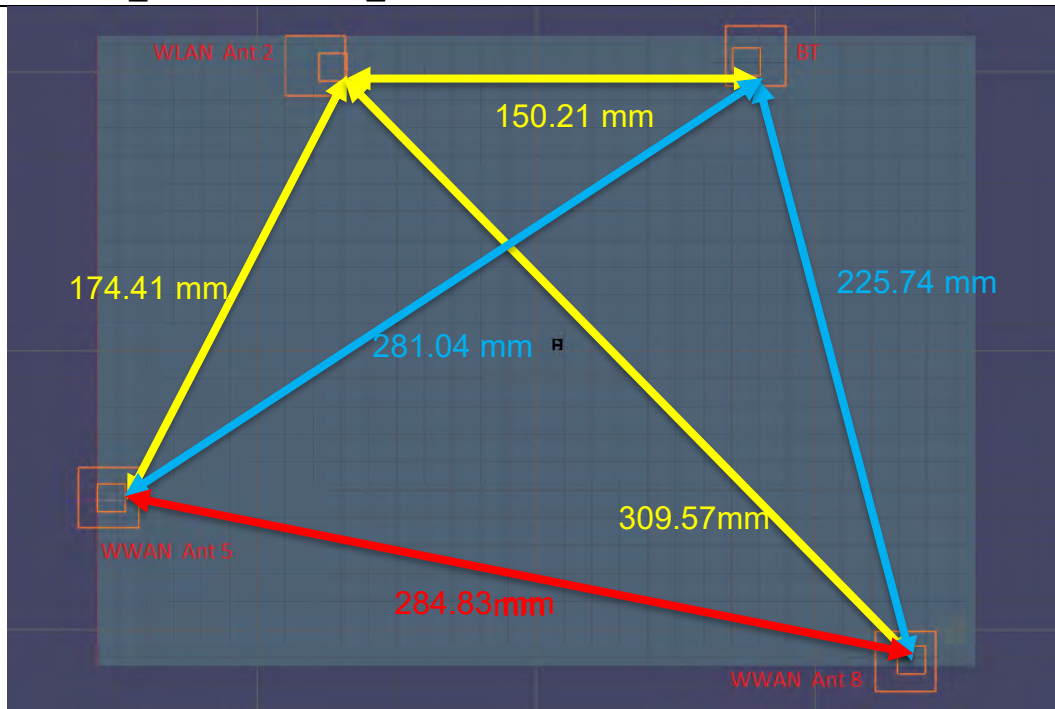
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NR n5_Ant 5 + NR n2_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



NR n5_Ant 5 + NR n66_Ant 8 + 2.4GHz WLAN Ant 2+ Bluetooth Ant 1



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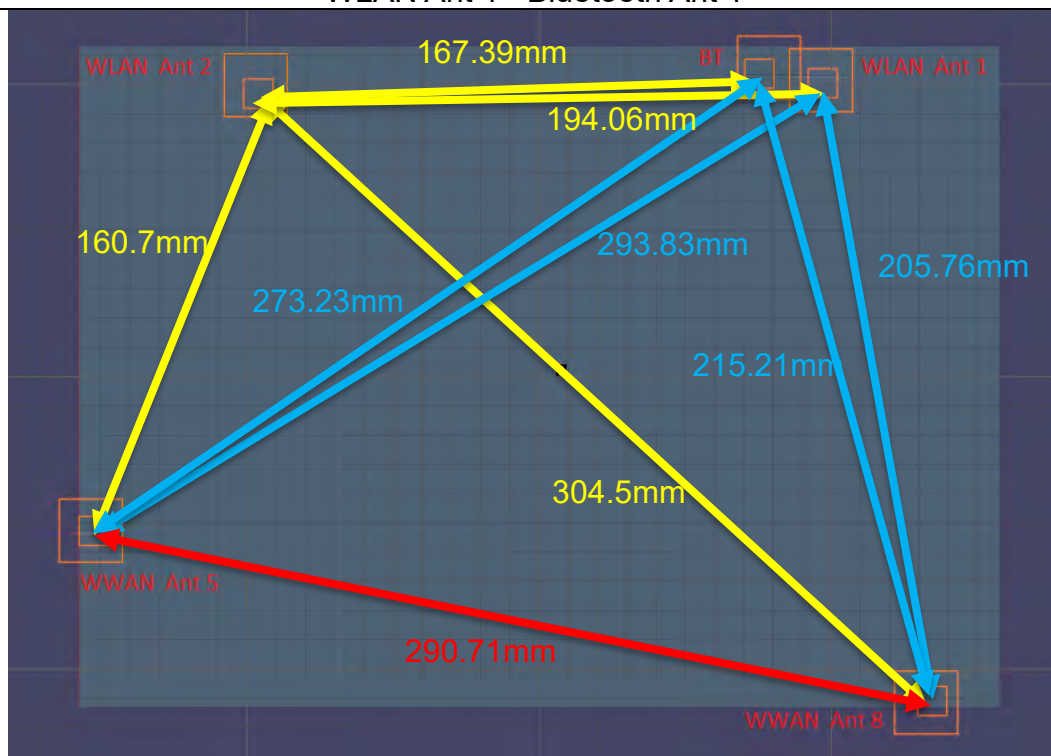
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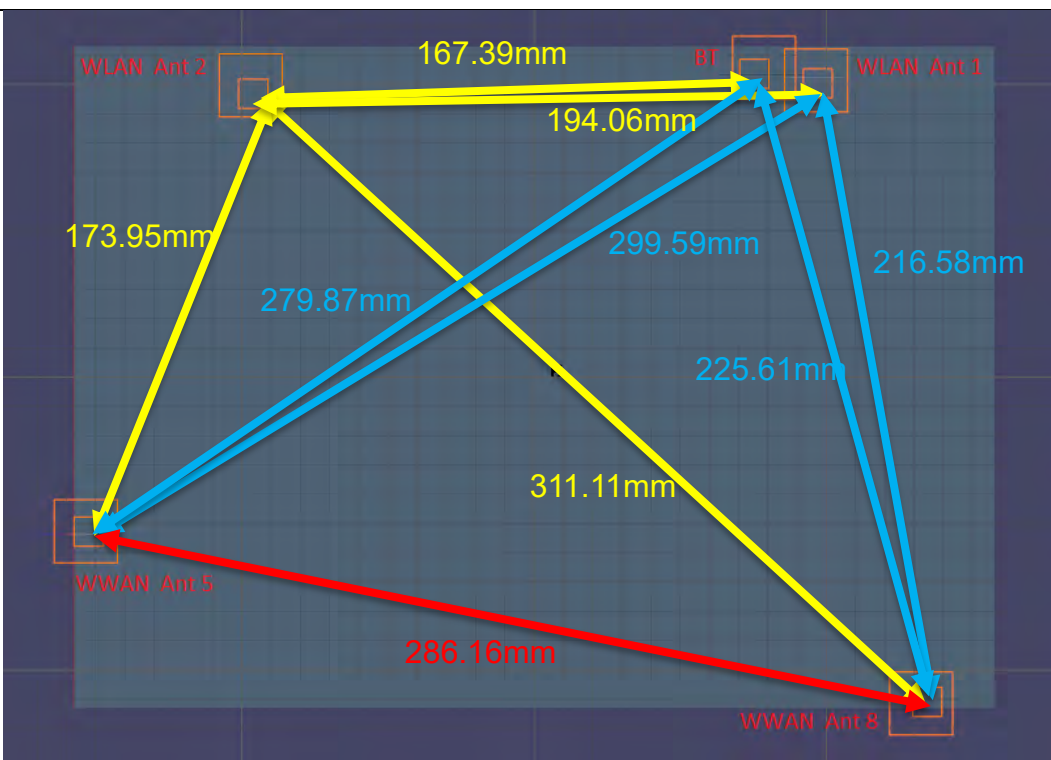
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LTE Band 2_Ant 5 + LTE Band 48_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 2_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN
Ant 1+ Bluetooth Ant 1



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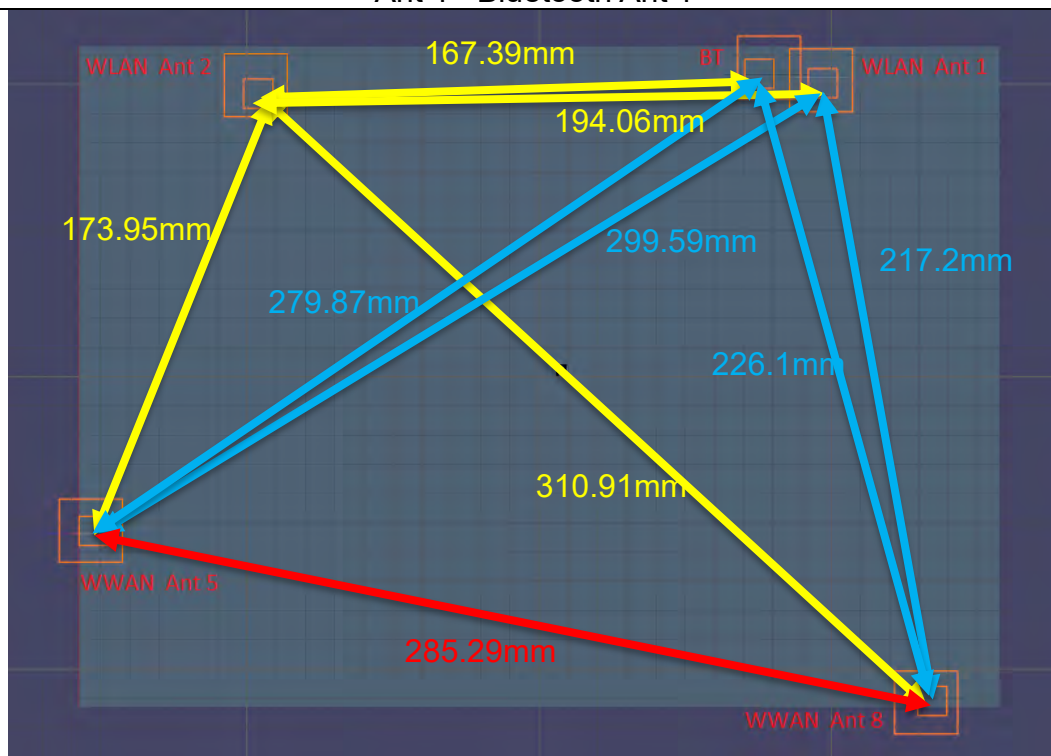
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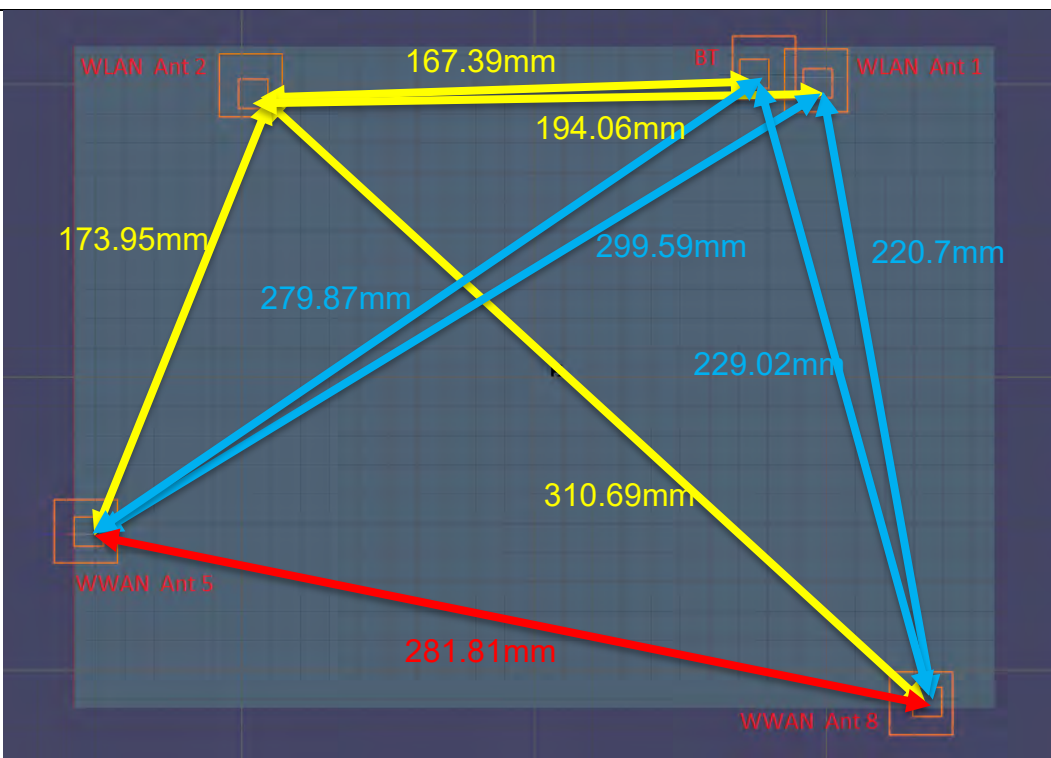
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LTE Band 5_Ant 5 + LTE Band 4_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 7_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1

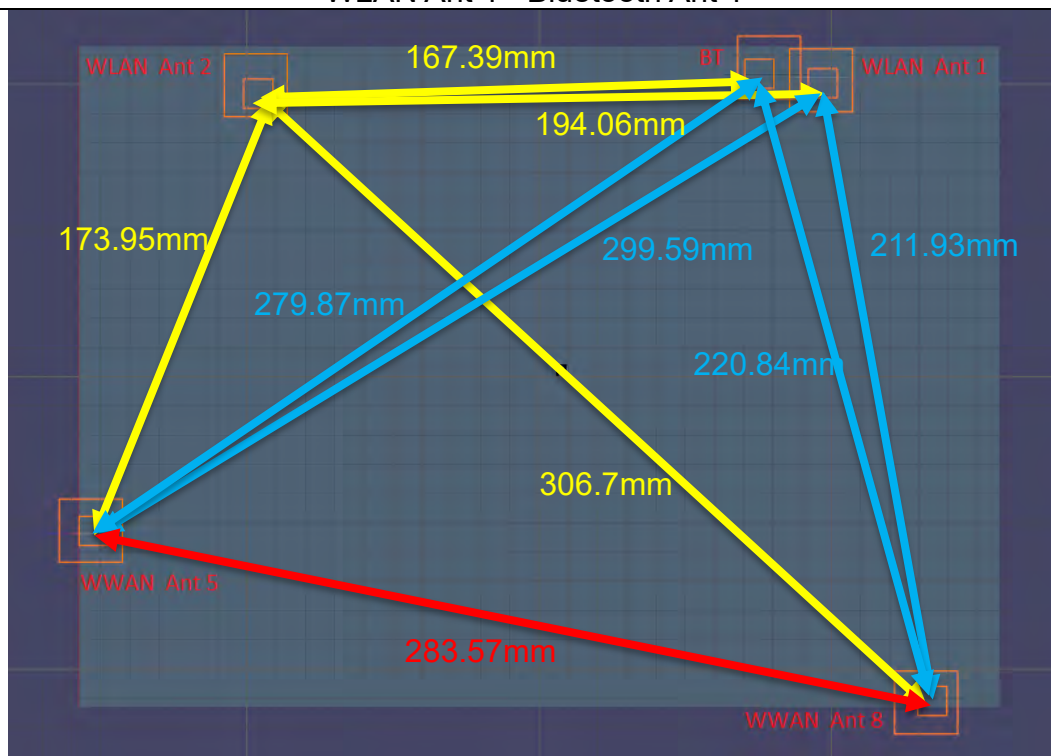


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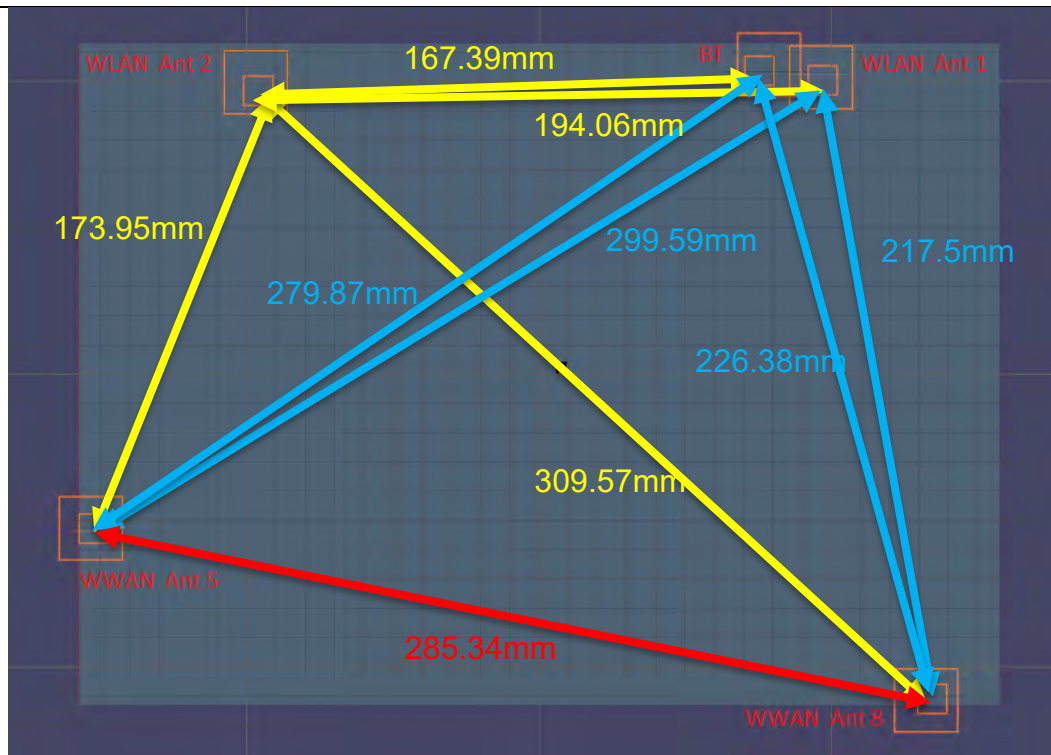
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LTE Band 5_Ant 5 + LTE Band 30_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 66_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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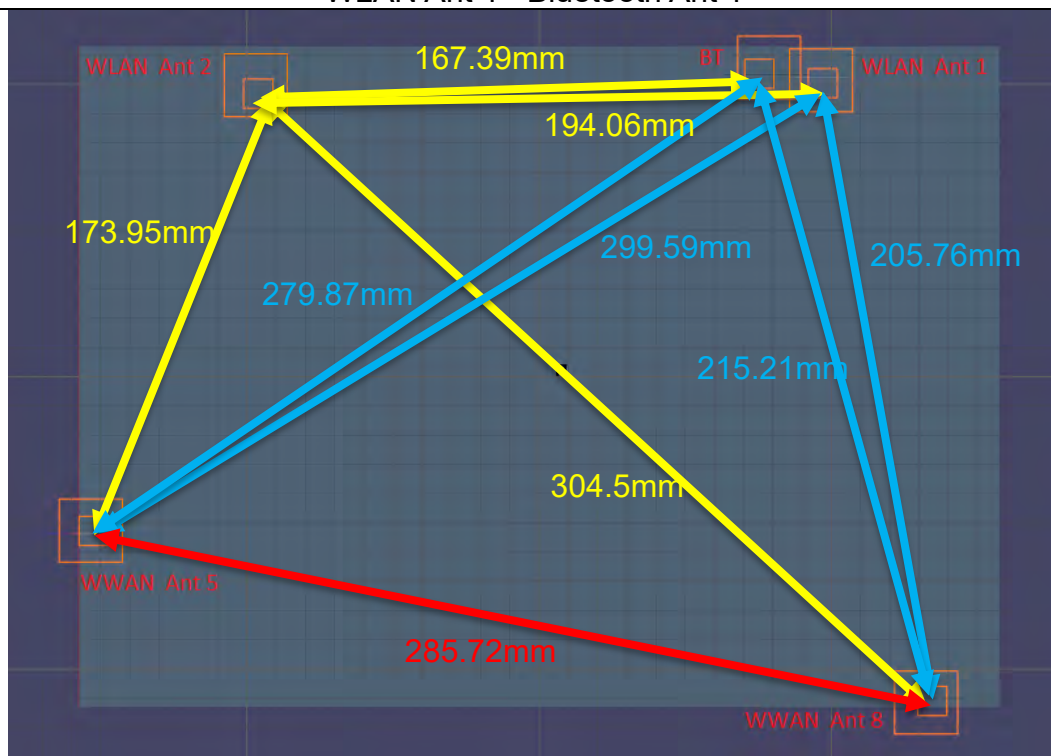
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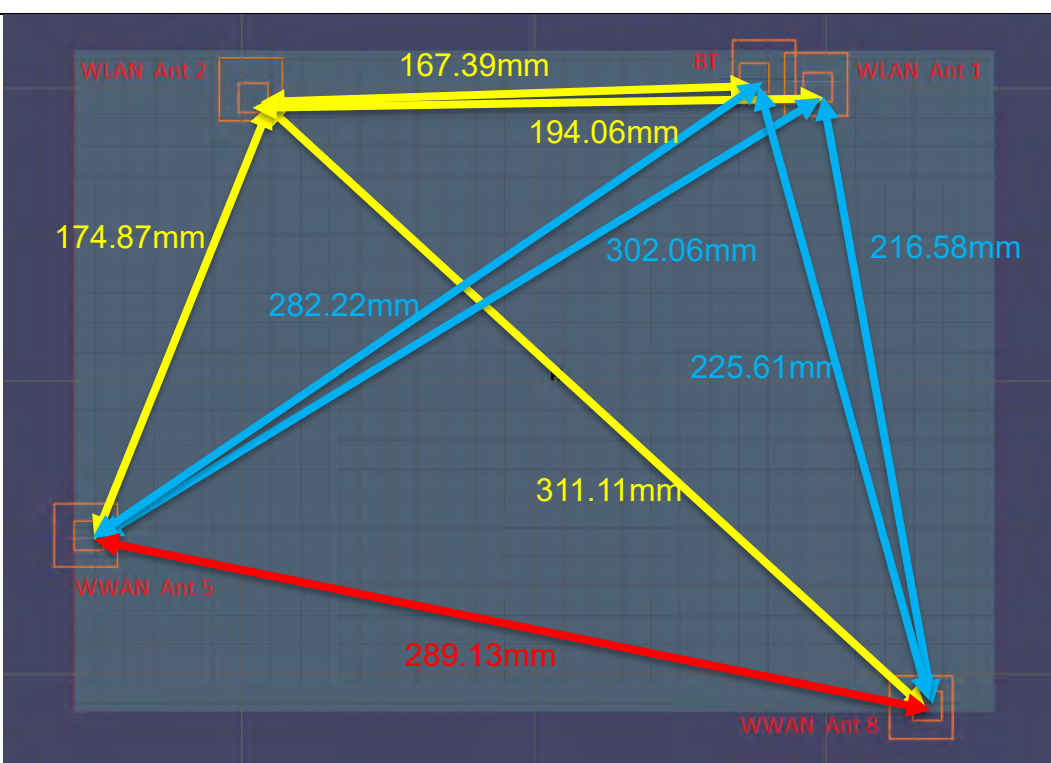
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LTE Band 5_Ant 5 + LTE Band 48_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 12_Ant 5 + LTE Band 2_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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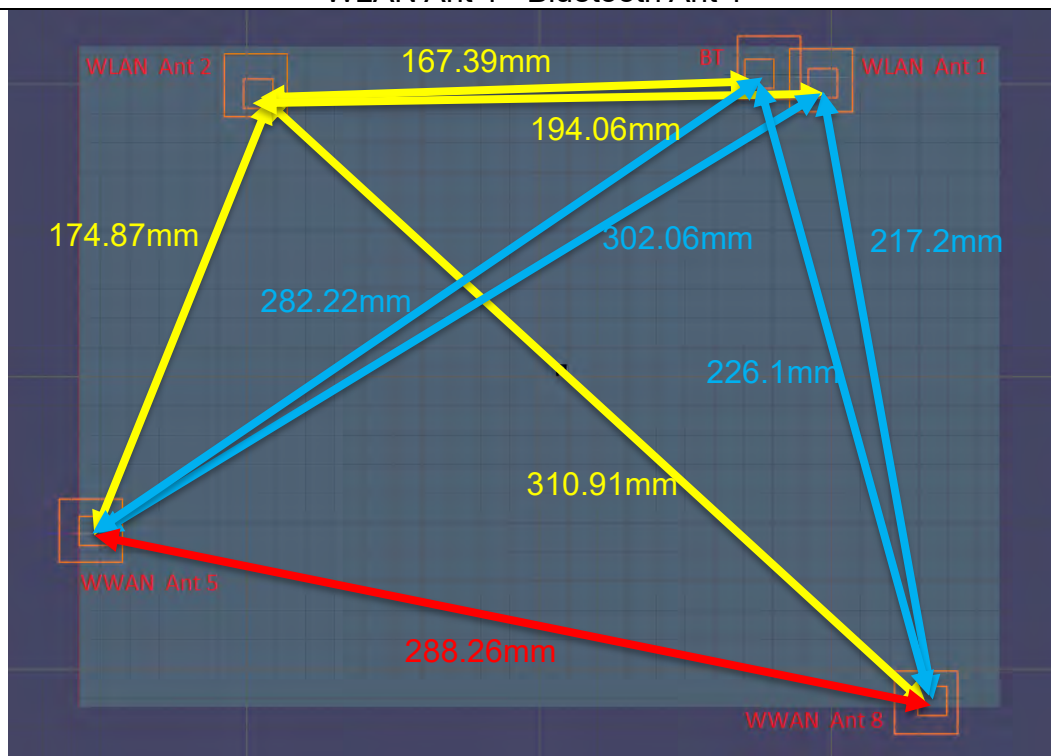
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f (886-2) 2298-0488

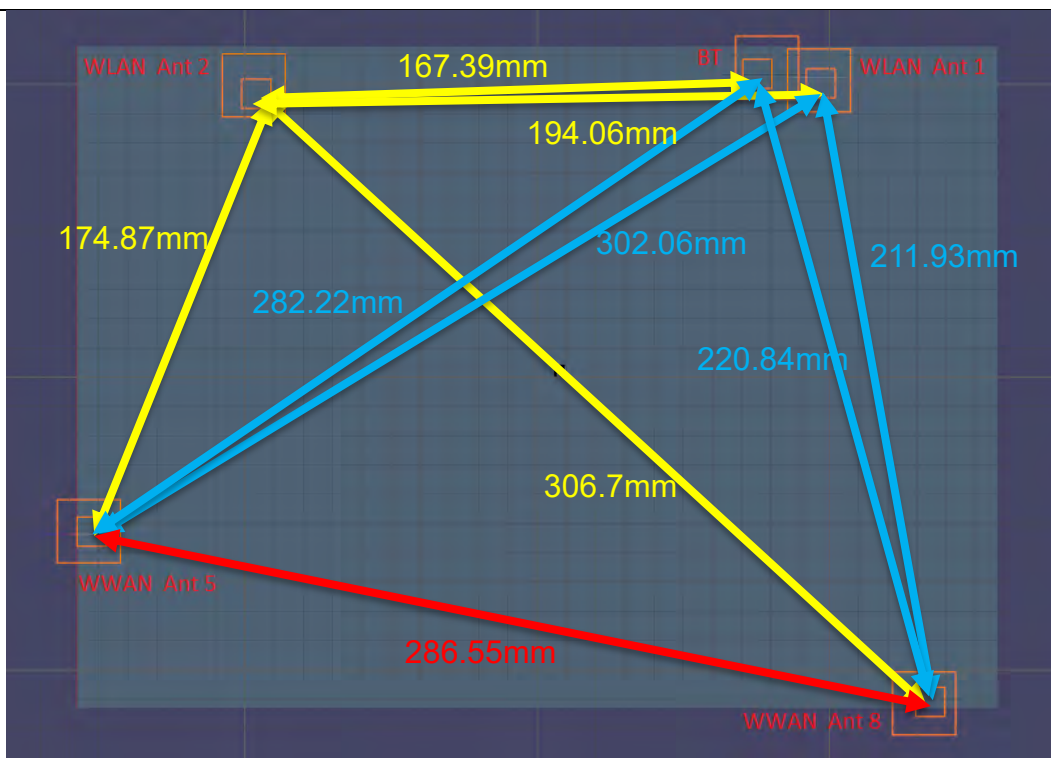
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LTE Band 12_Ant 5 + LTE Band 4_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 12_Ant 5 + LTE Band 30_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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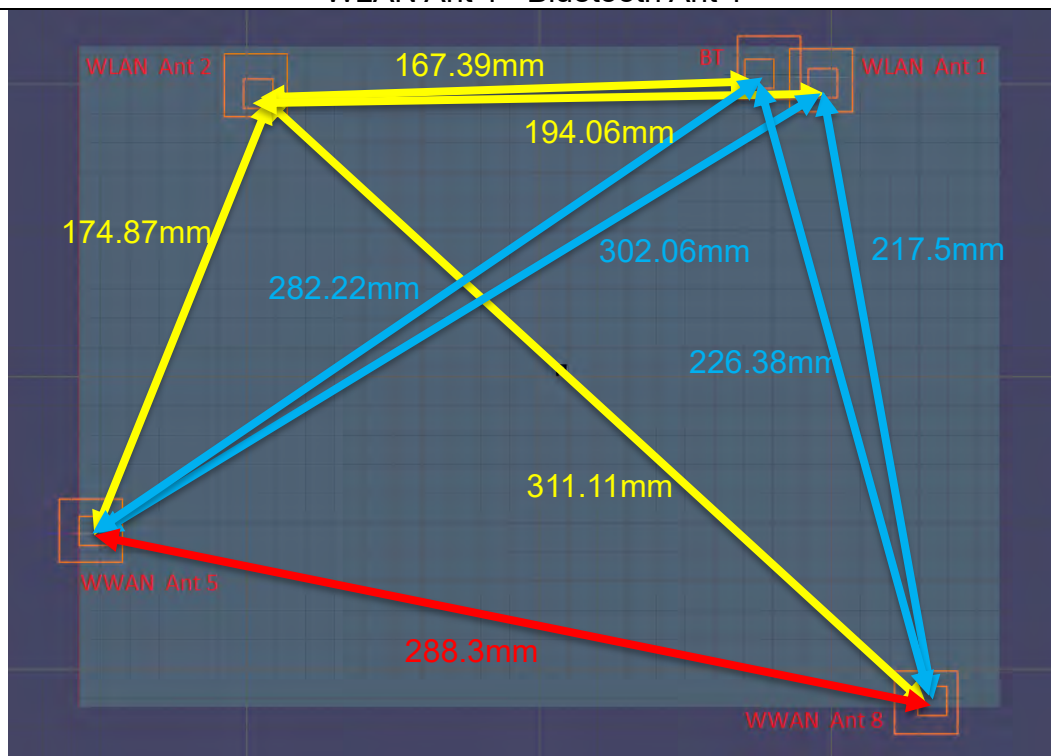
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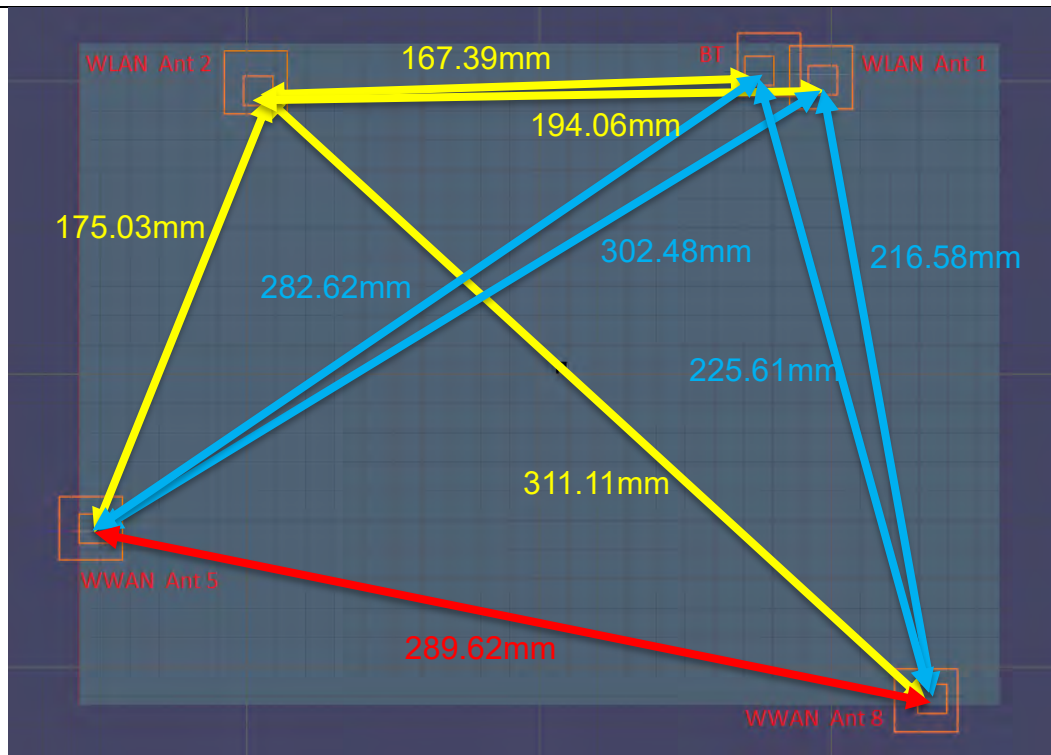
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LTE Band 12_Ant 5 + LTE Band 66_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 13_Ant 5 + LTE Band 2_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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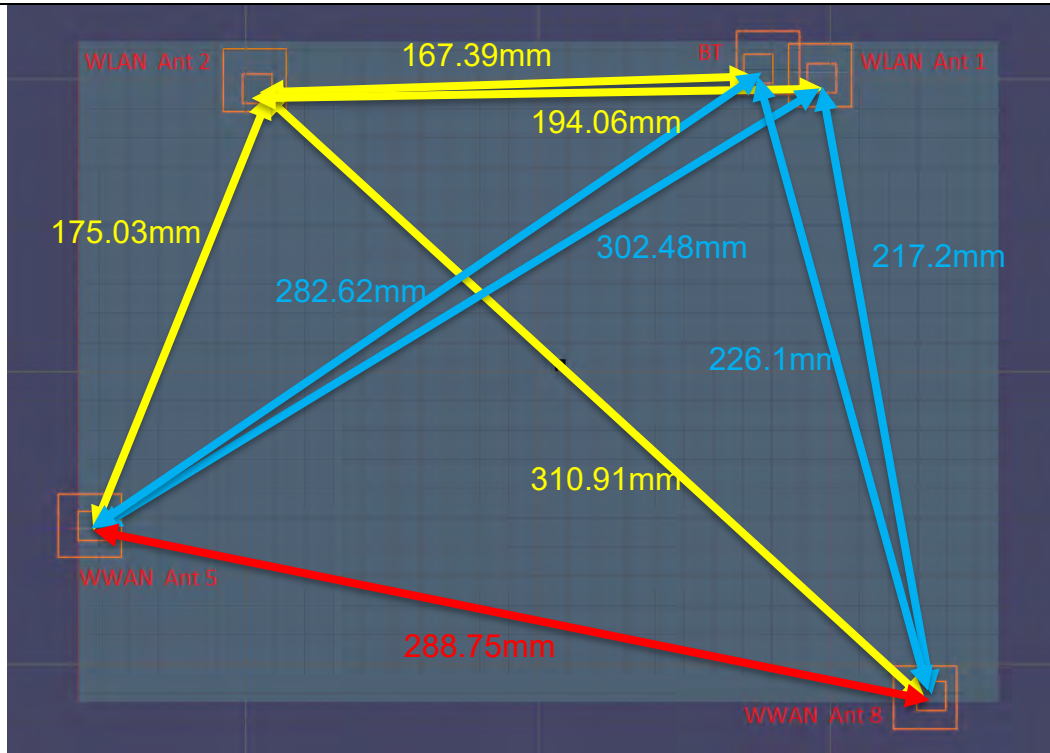
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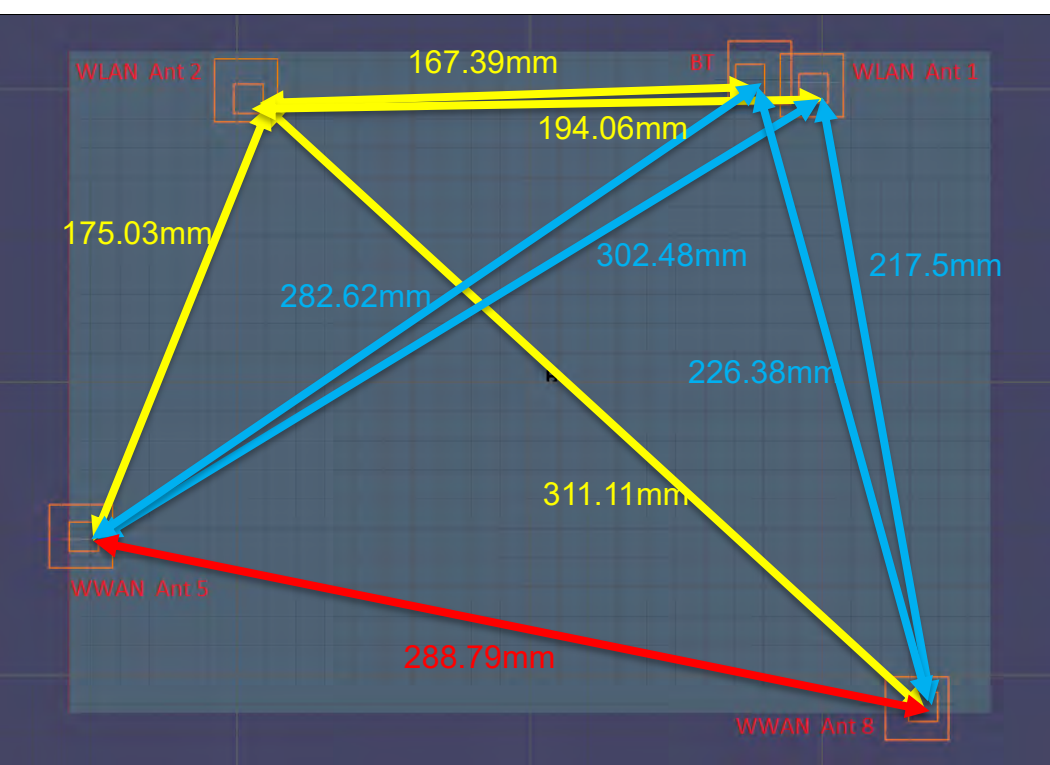
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LTE Band 13_Ant 5 + LTE Band 4_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 13_Ant 5 + LTE Band 66_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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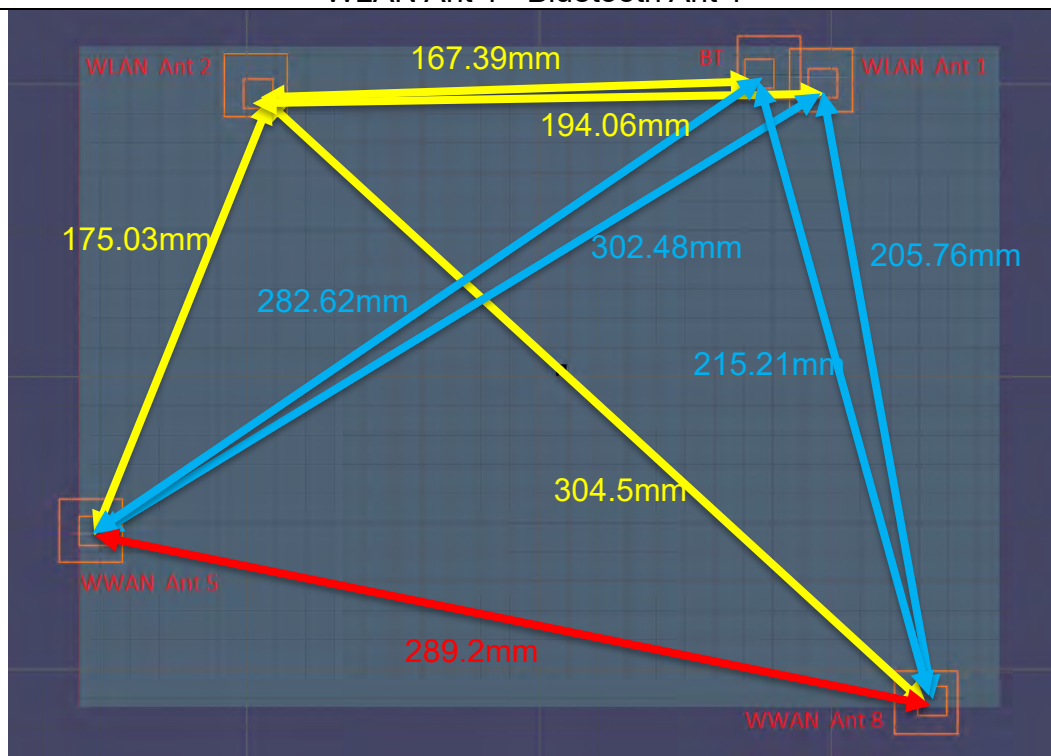
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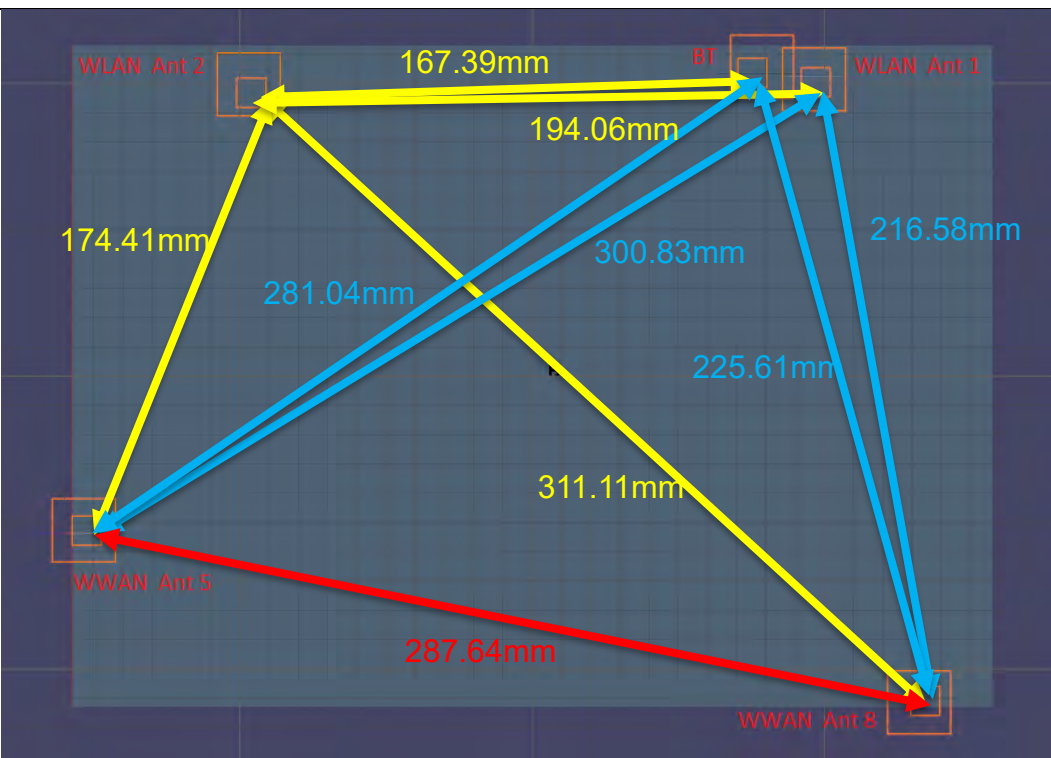
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LTE Band 13_Ant 5 + LTE Band 48_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 2_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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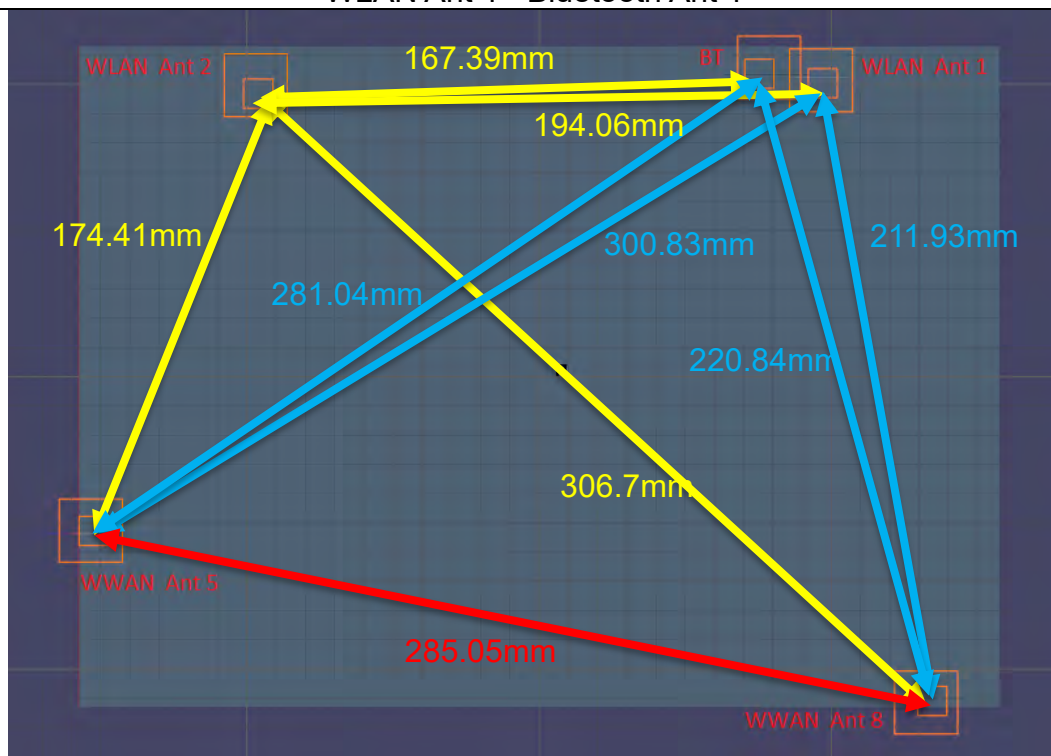
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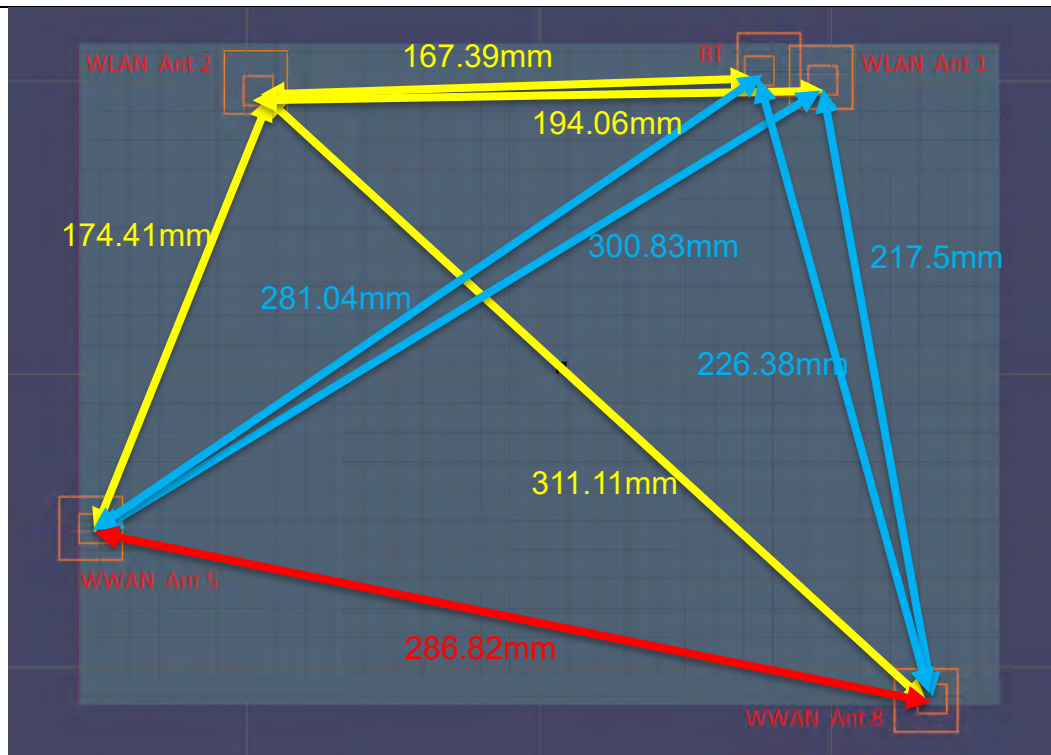
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LTE Band 14_Ant 5 + LTE Band 30_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 66_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1



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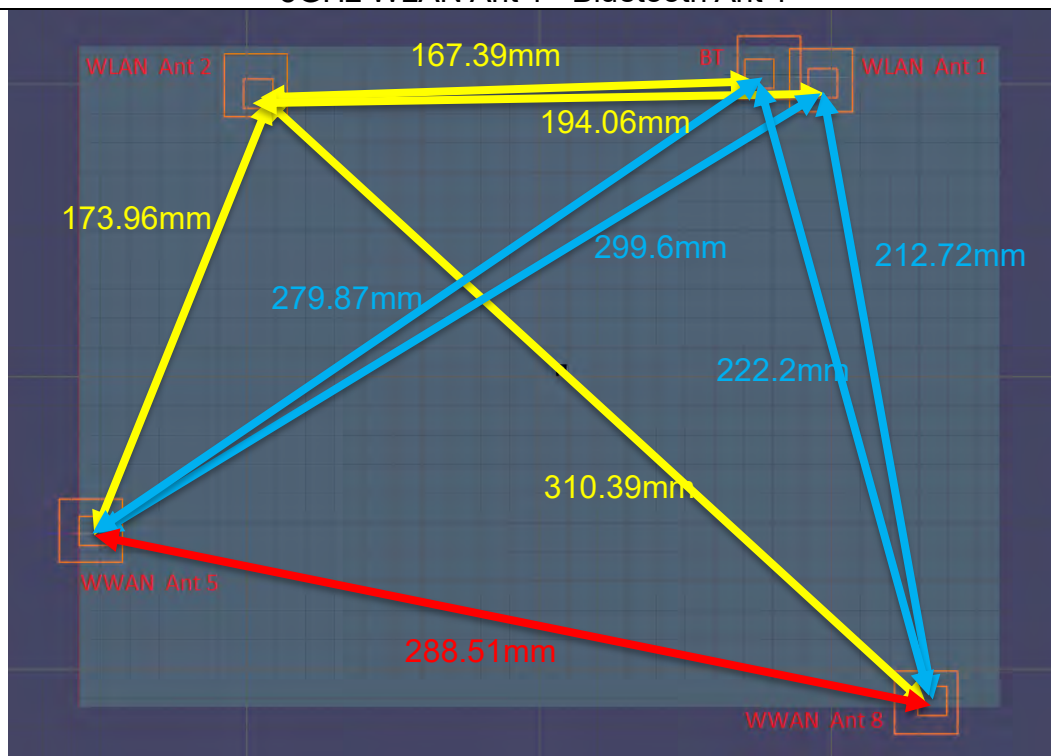
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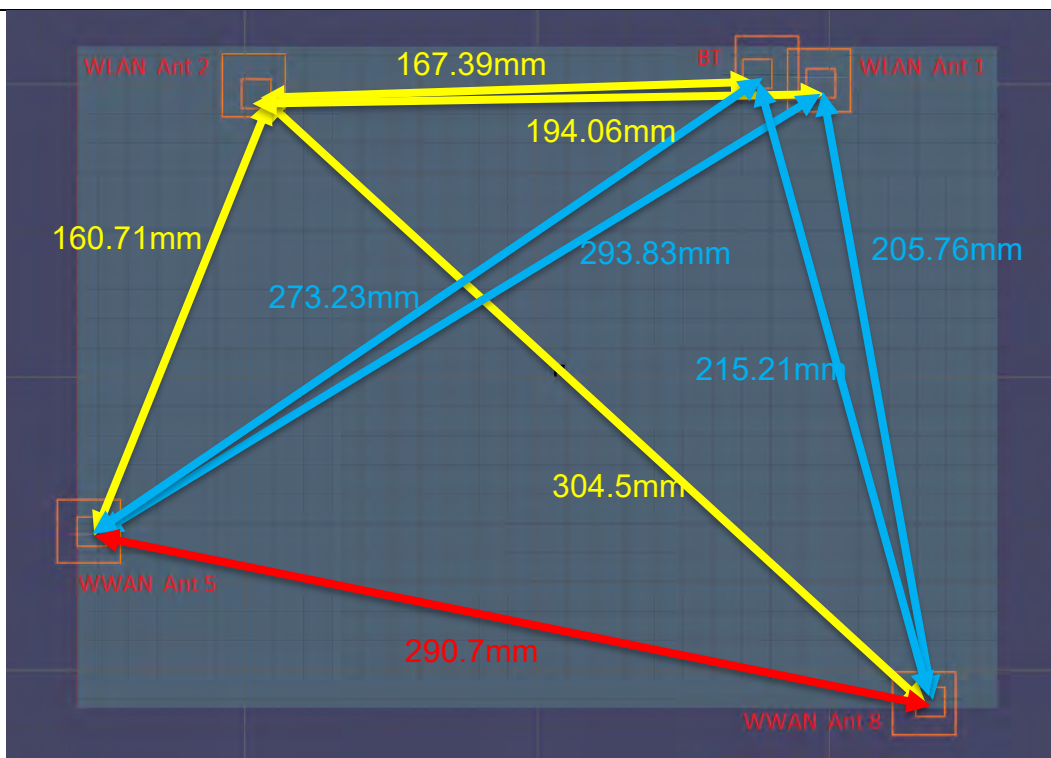
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LTE Band 26_FCC_Ant 5 + LTE Band 25_Ant 8 + 5GHz WLAN Ant 2+
5GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 66_Ant 5 + LTE Band 48_Ant 8 + 5GHz WLAN Ant 2+ 5GHz
WLAN Ant 1+ Bluetooth Ant 1



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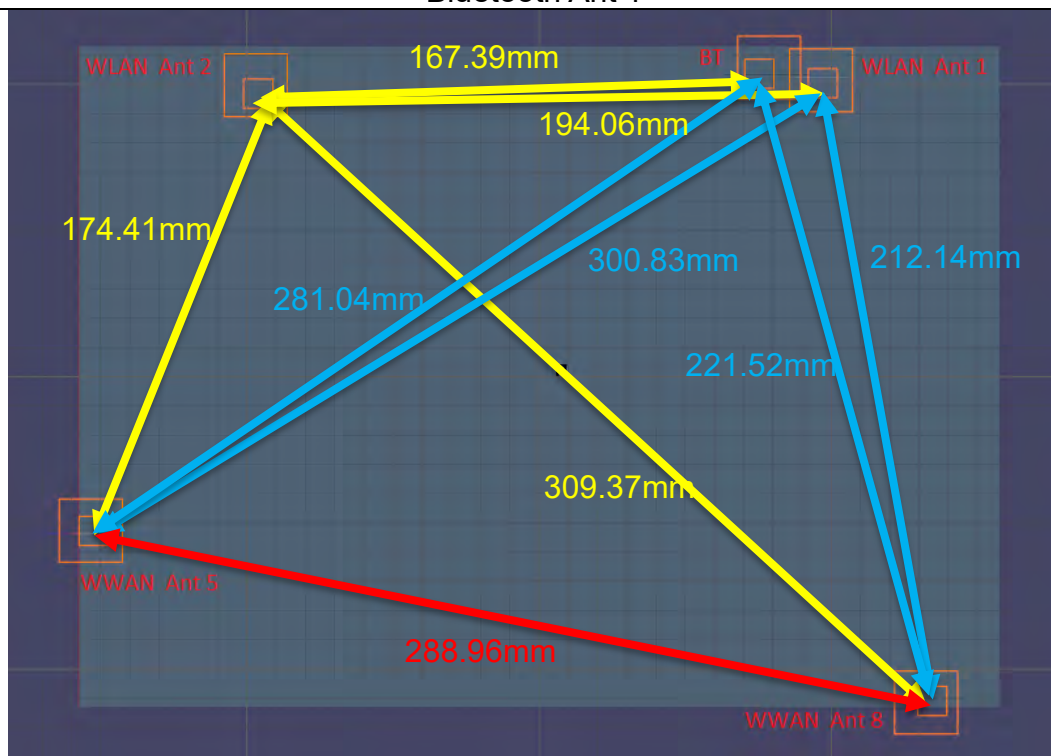
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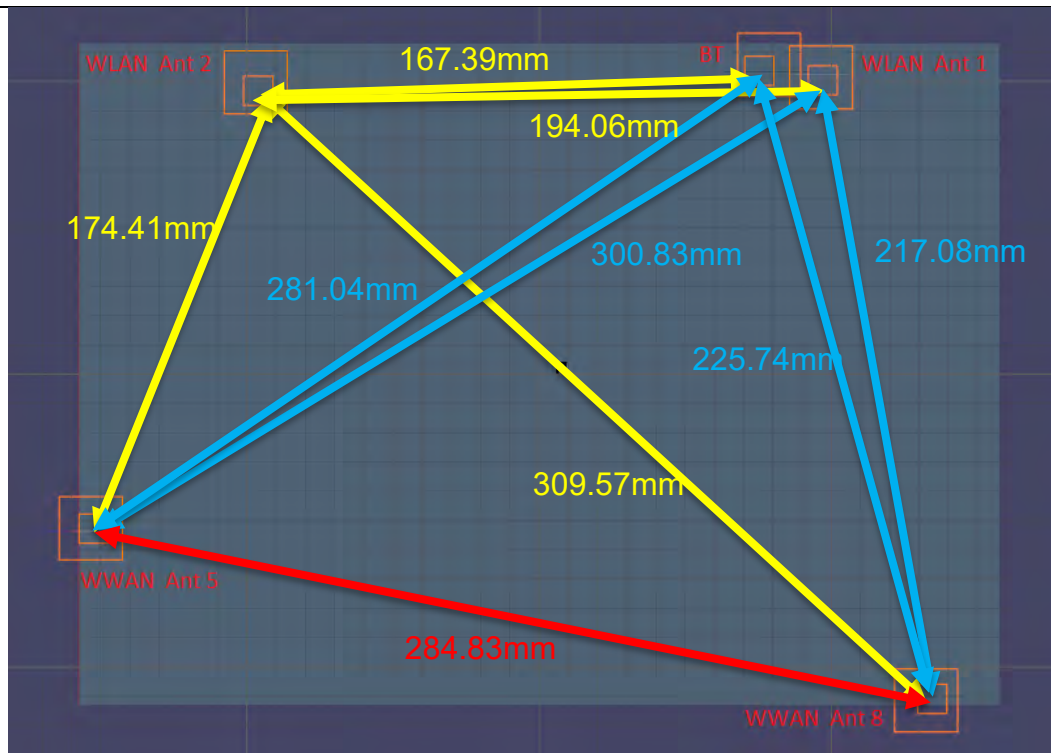
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NR n5_Ant 5 + NR n2_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1



NR n5_Ant 5 + NR n66_Ant 8 + 5GHz WLAN Ant 2+ 5GHz WLAN Ant 1+ Bluetooth Ant 1



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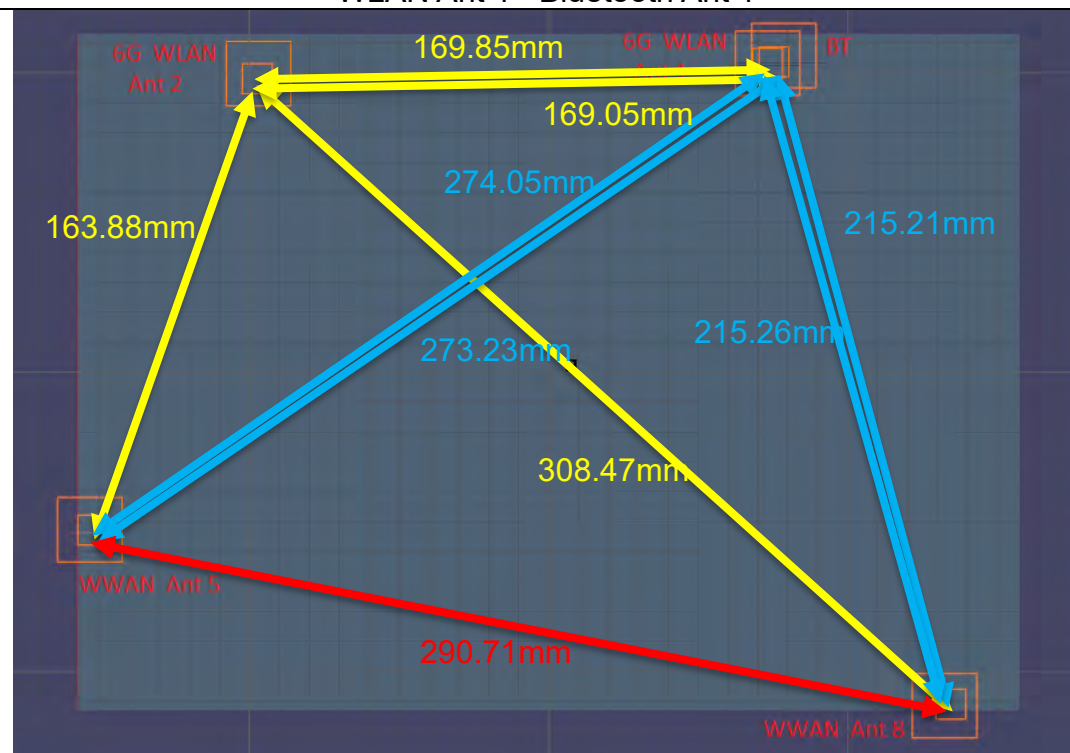
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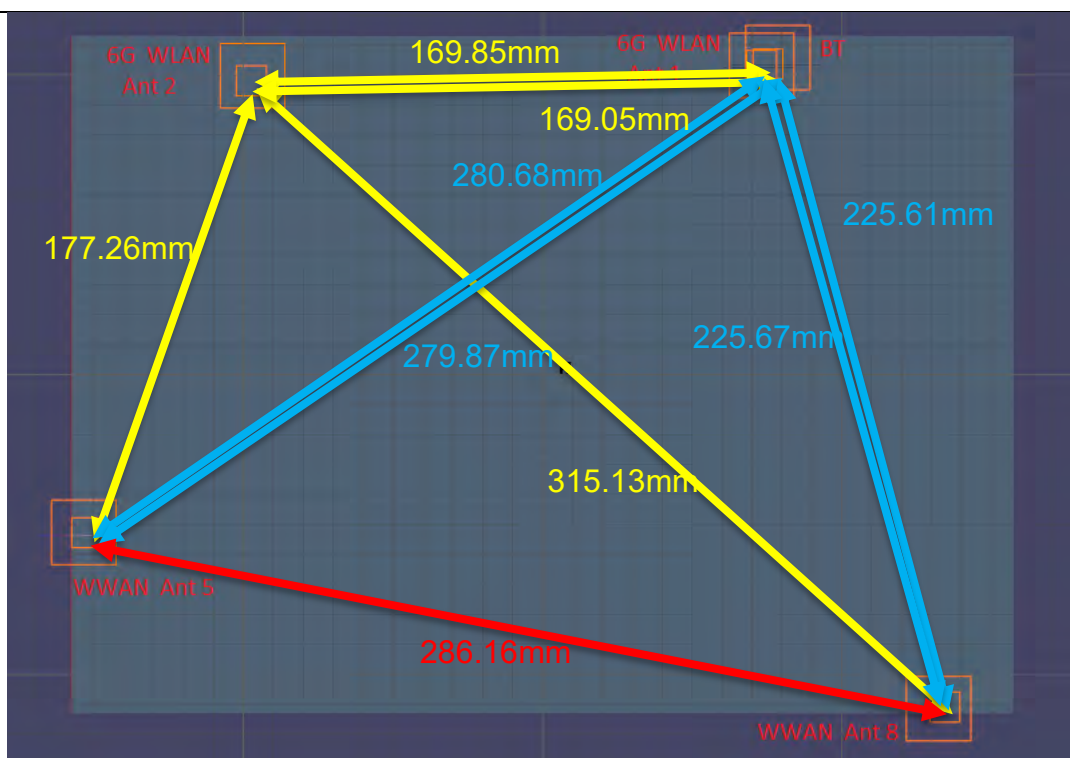
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WLAN Ant 1+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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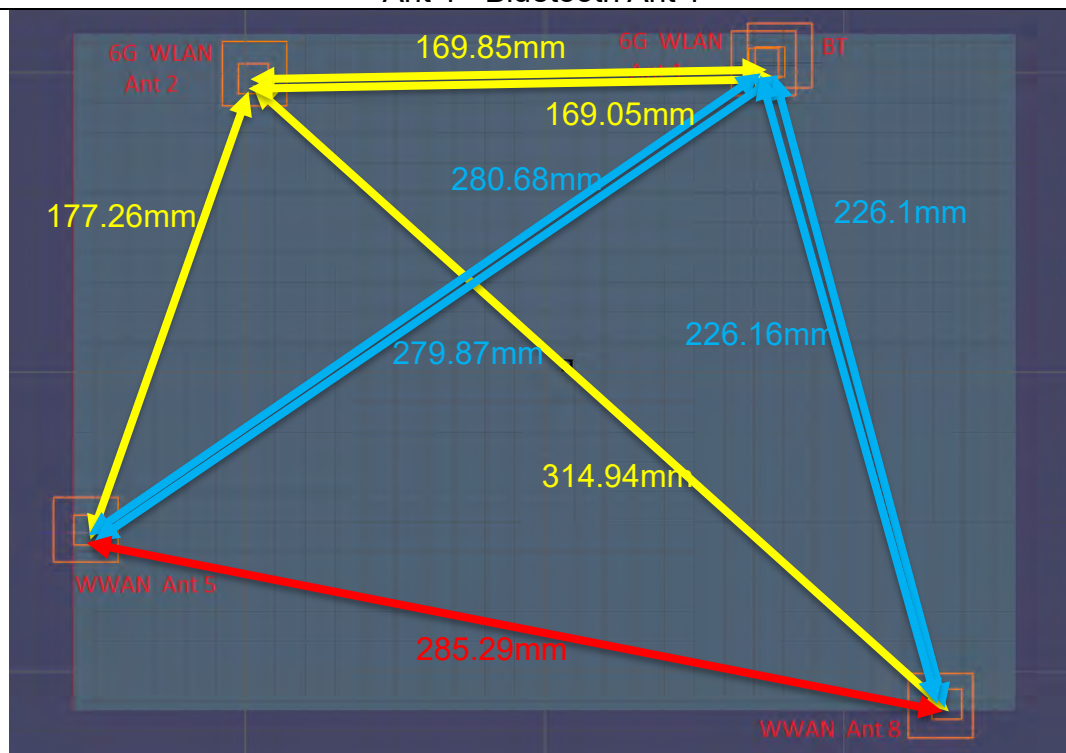
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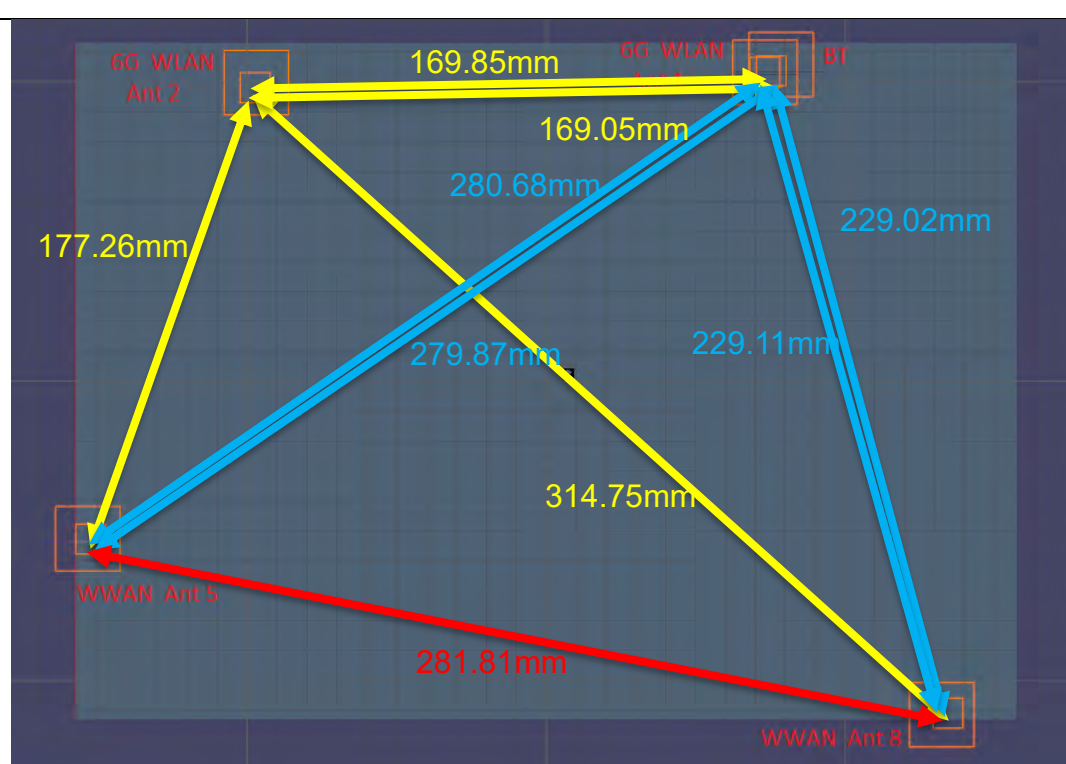
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LTE Band 5_Ant 5 + LTE Band 7_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+ Bluetooth Ant 1



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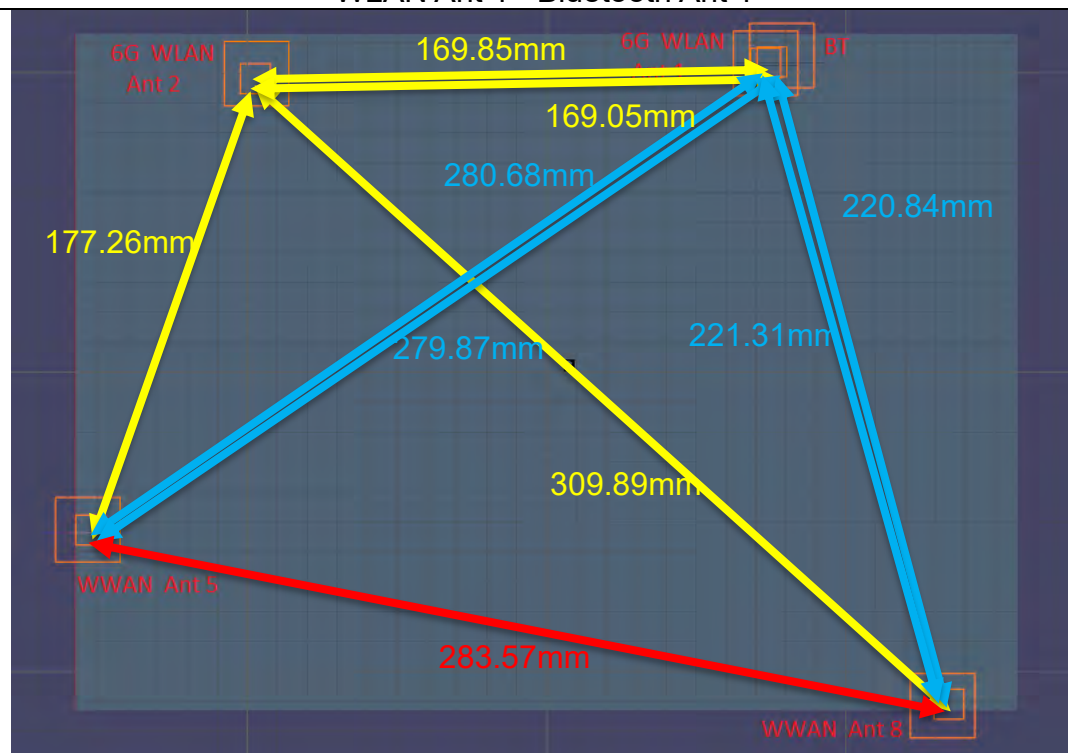
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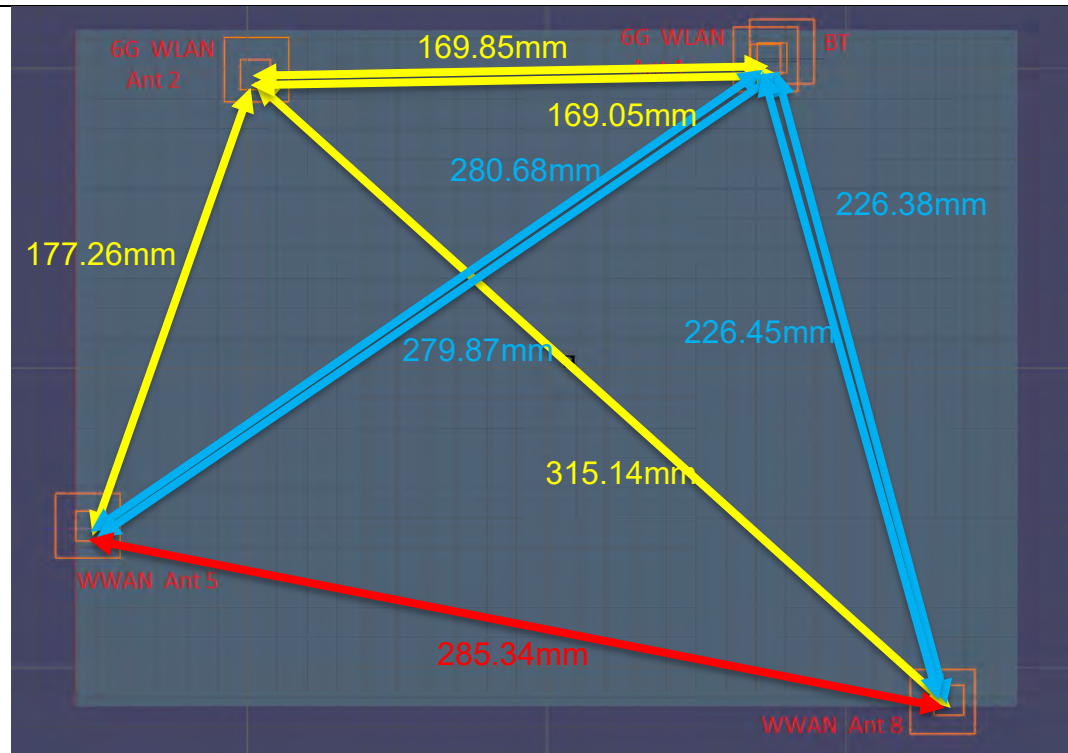
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WLAN Ant 1+ Bluetooth Ant 1



LTE Band 5_Ant 5 + LTE Band 66_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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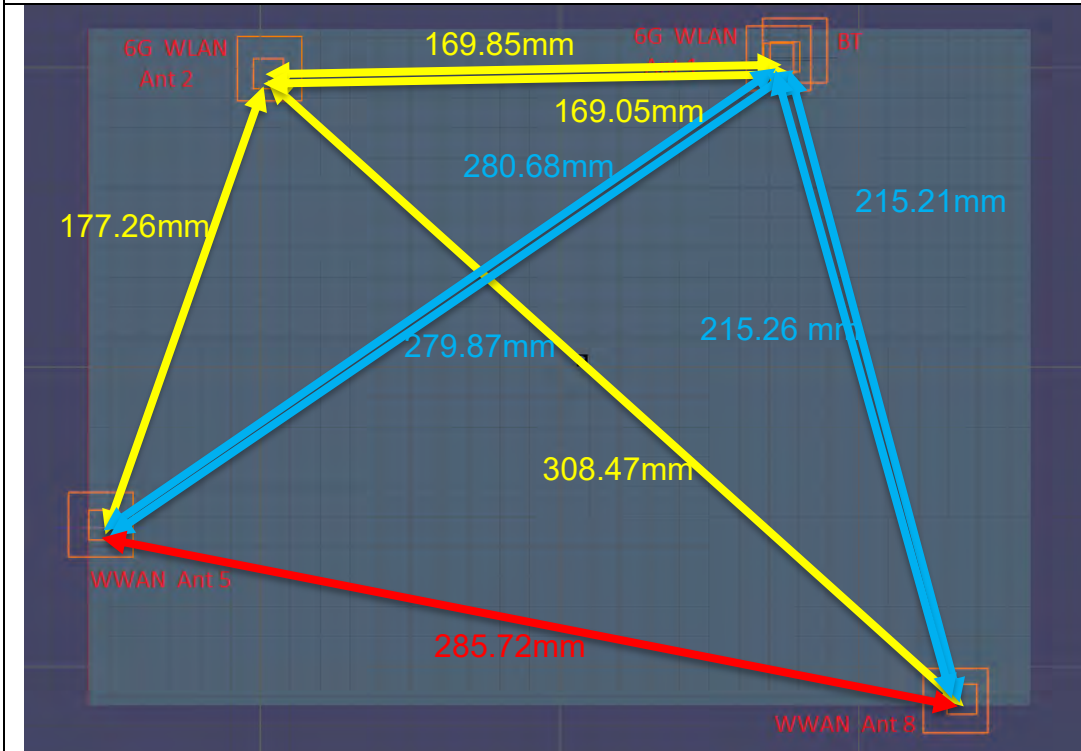
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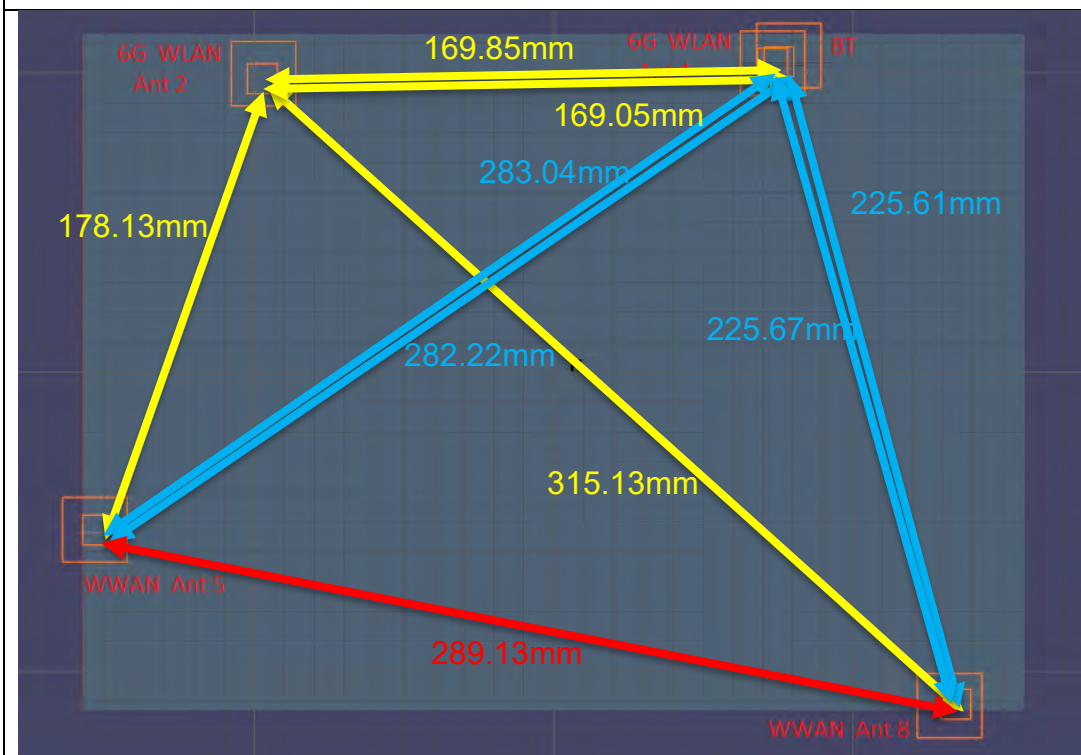
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LTE Band 5_Ant 5 + LTE Band 48_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 12_Ant 5 + LTE Band 2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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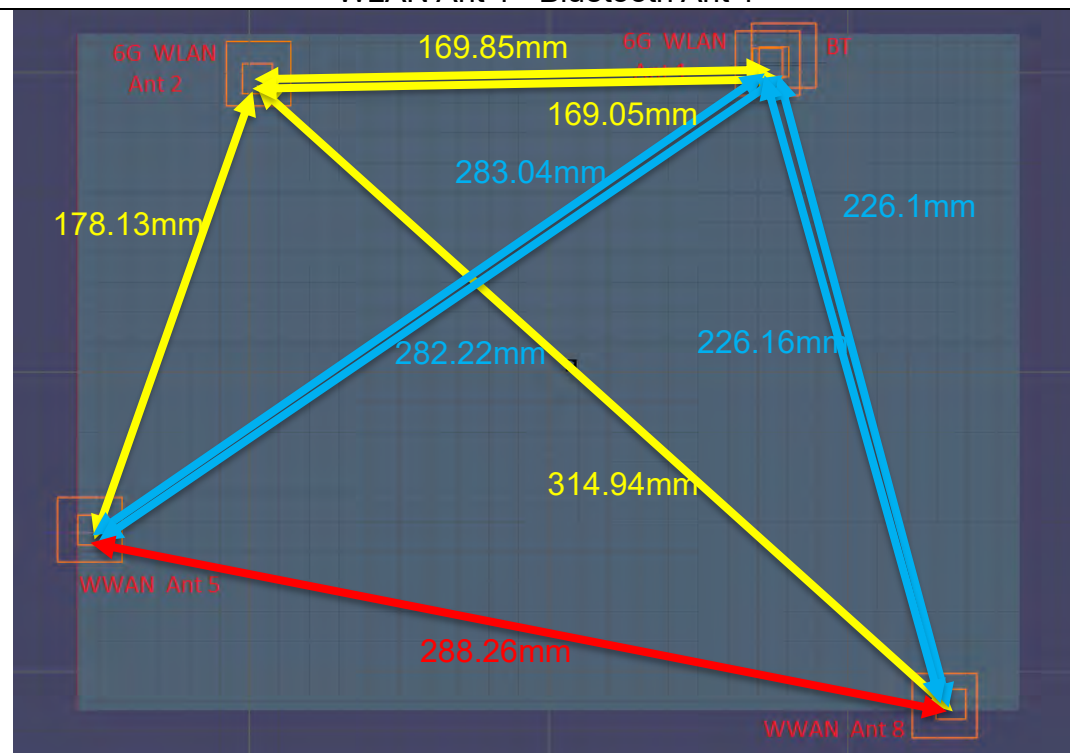
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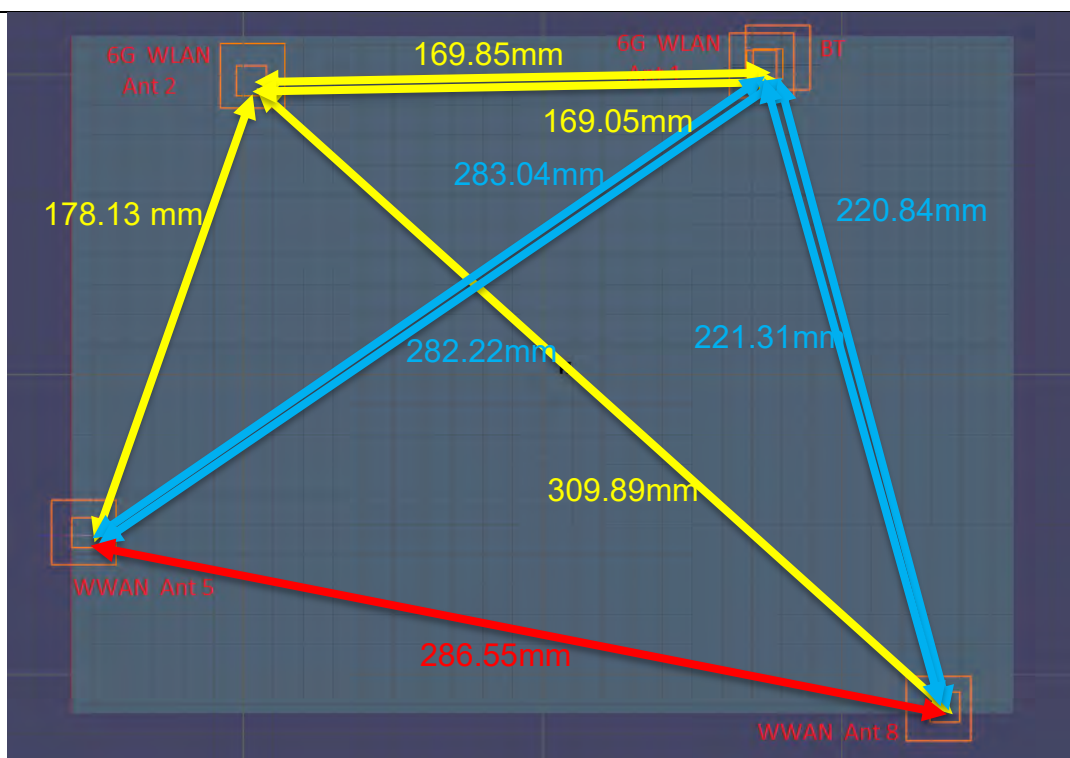
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LTE Band 12_Ant 5 + LTE Band 4_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



LTE Band 12_Ant 5 + LTE Band 30_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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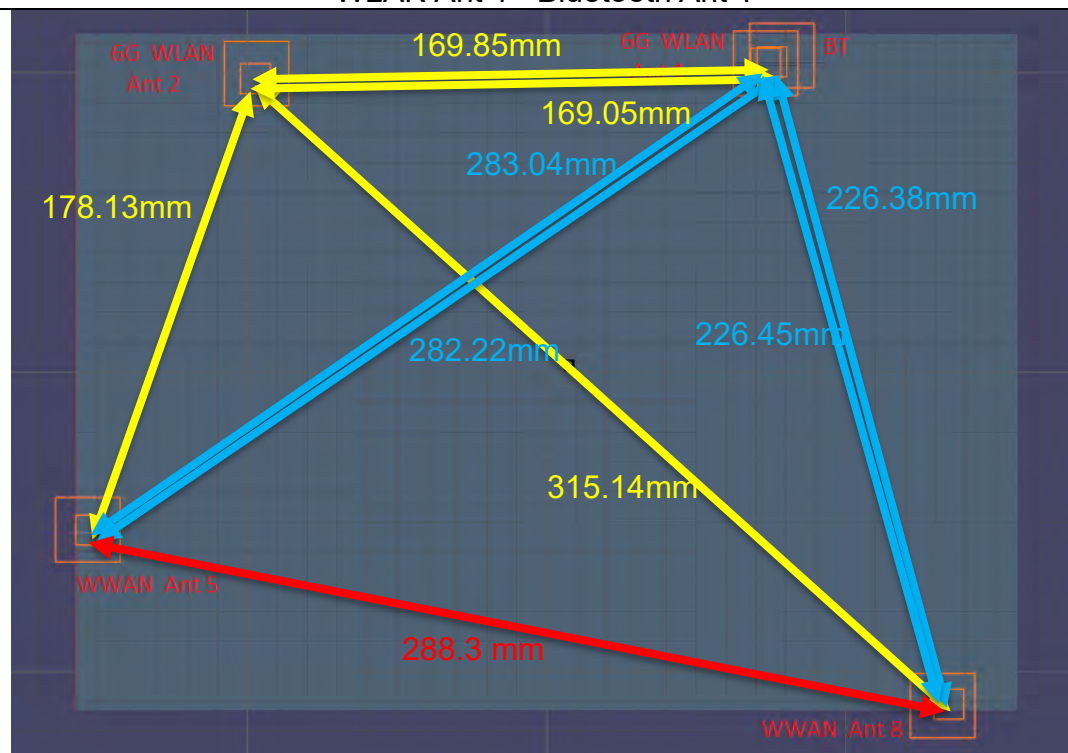
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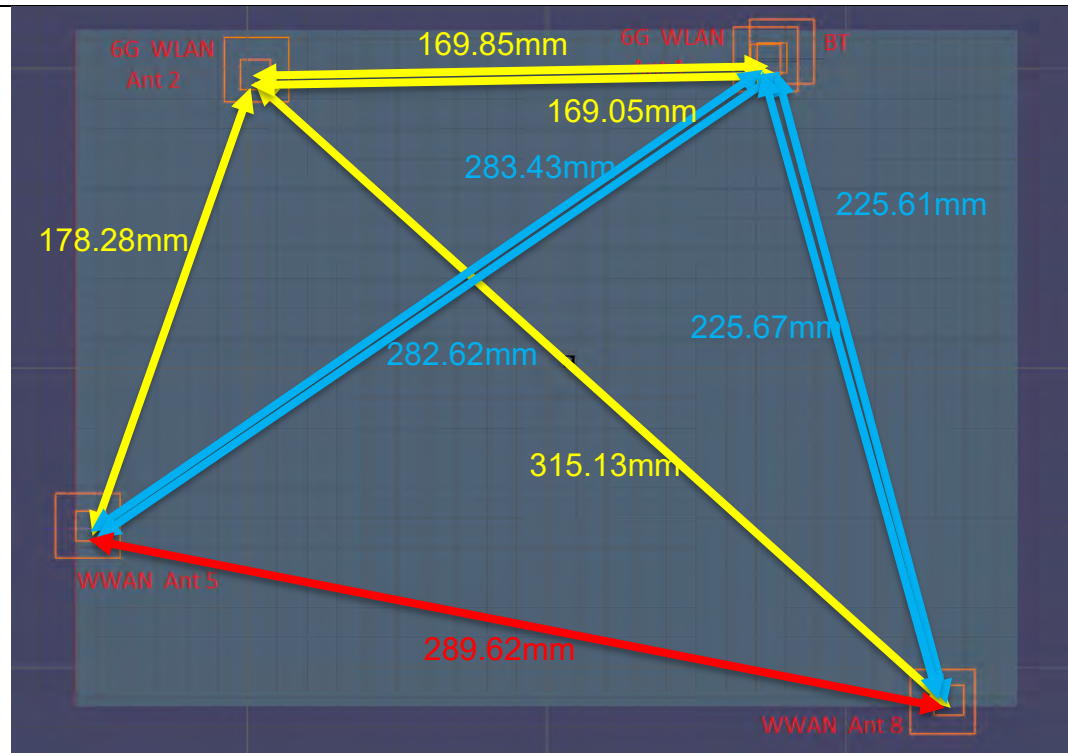
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WLAN Ant 1+ Bluetooth Ant 1



LTE Band 13_Ant 5 + LTE Band 2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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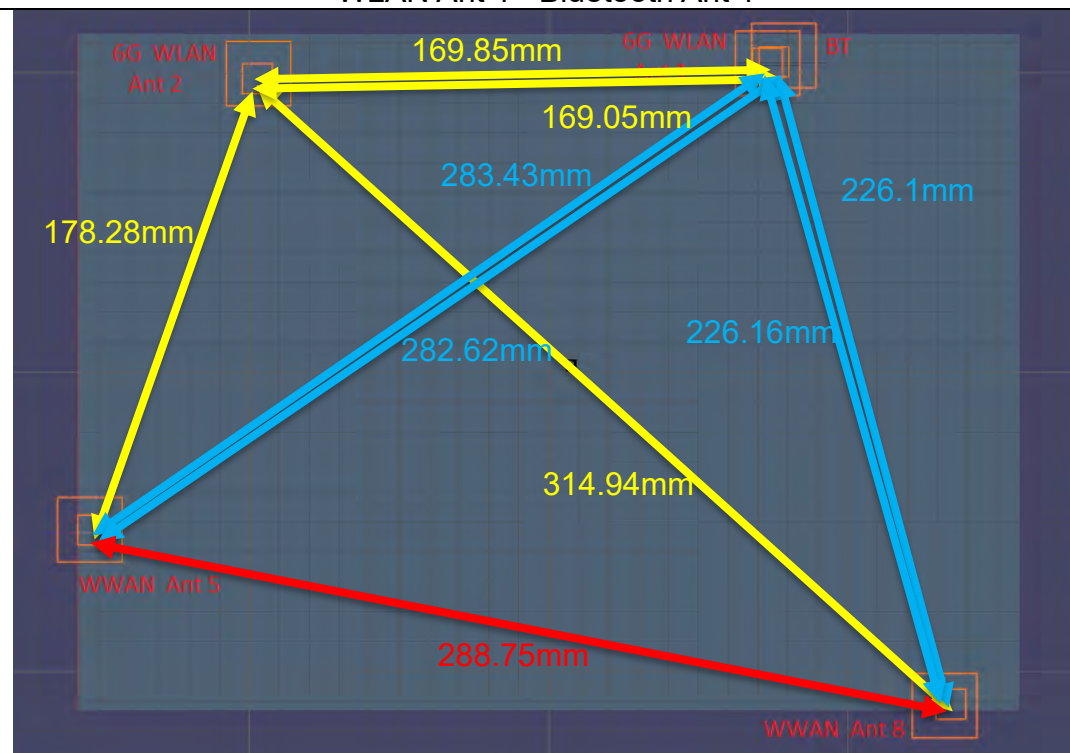
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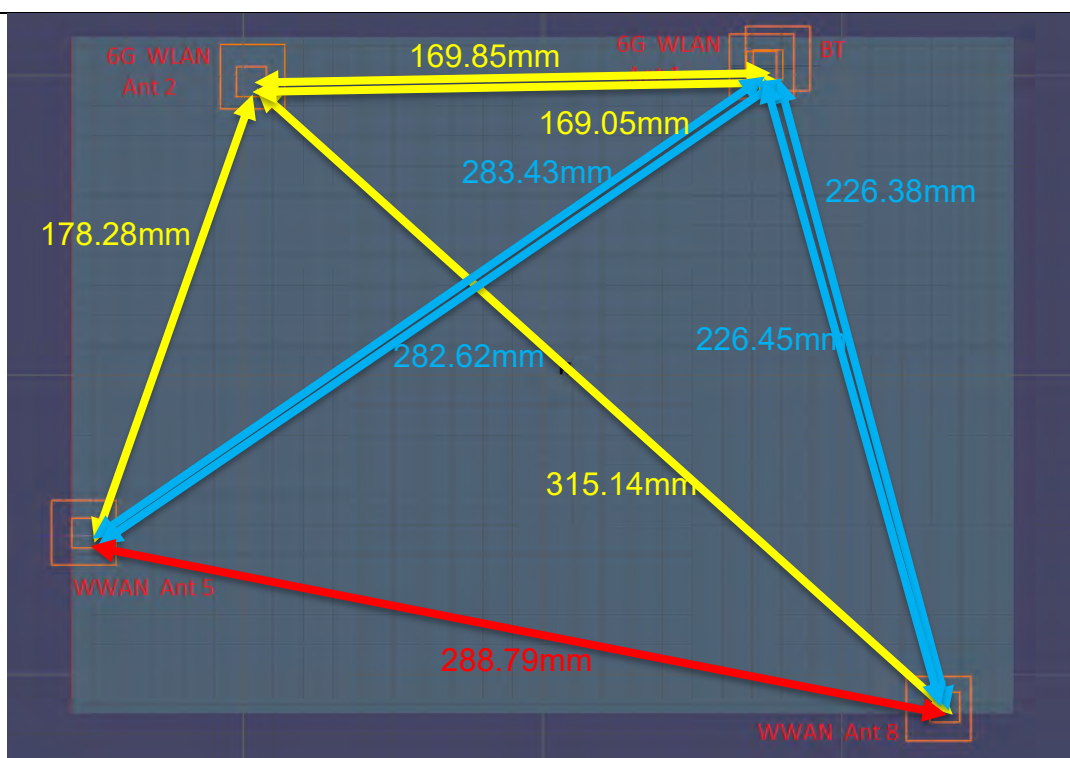
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WLAN Ant 1+ Bluetooth Ant 1



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WLAN Ant 1+ Bluetooth Ant 1



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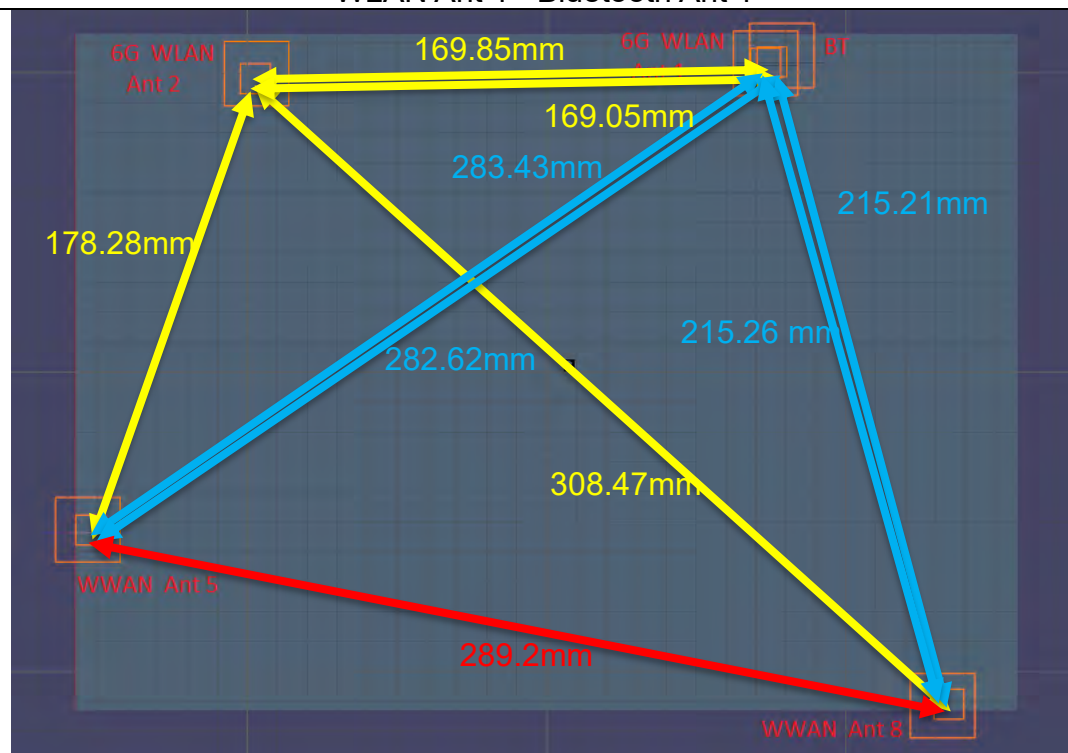
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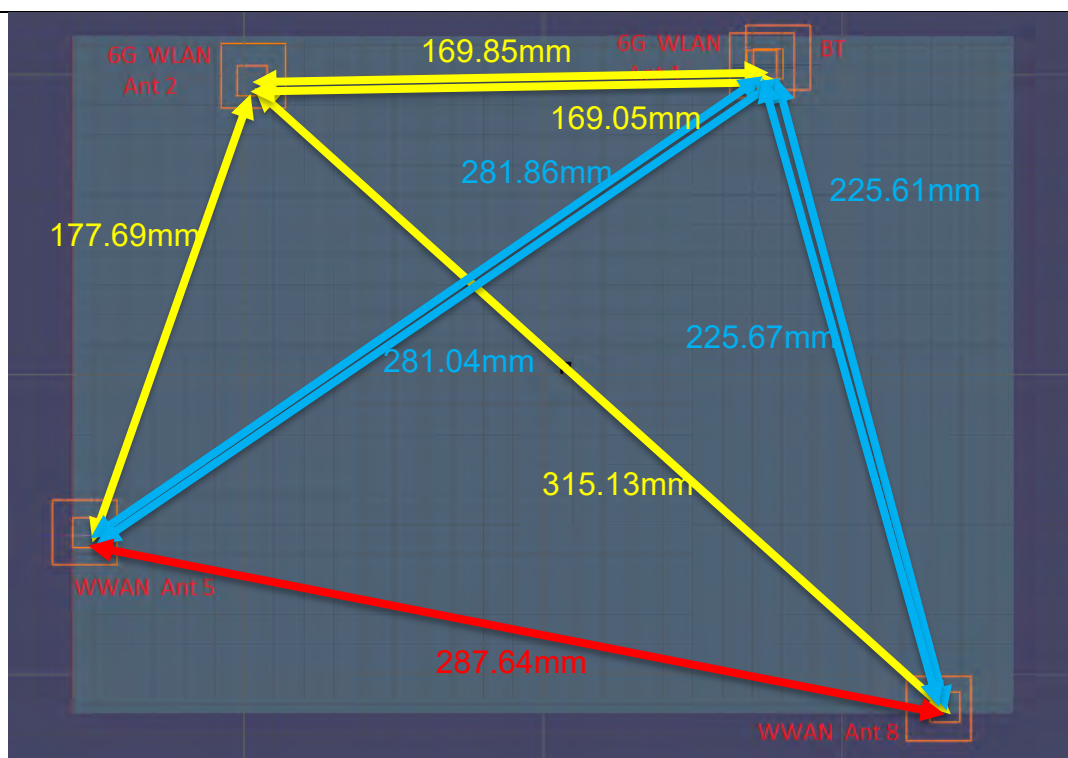
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WLAN Ant 1+ Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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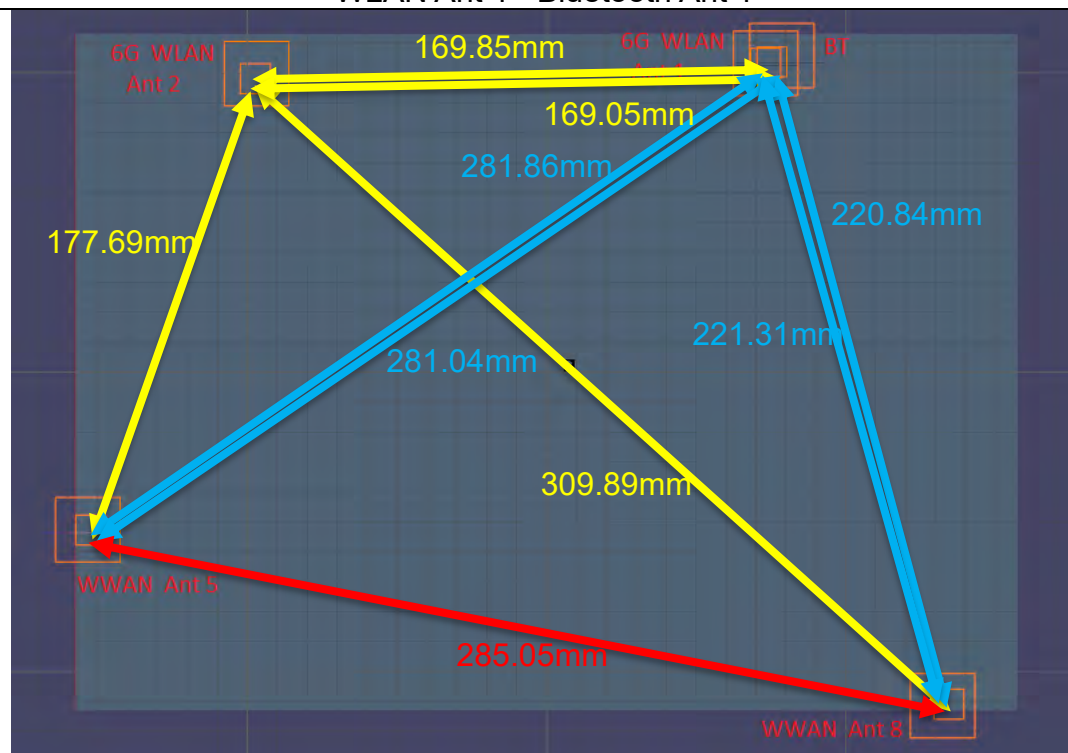
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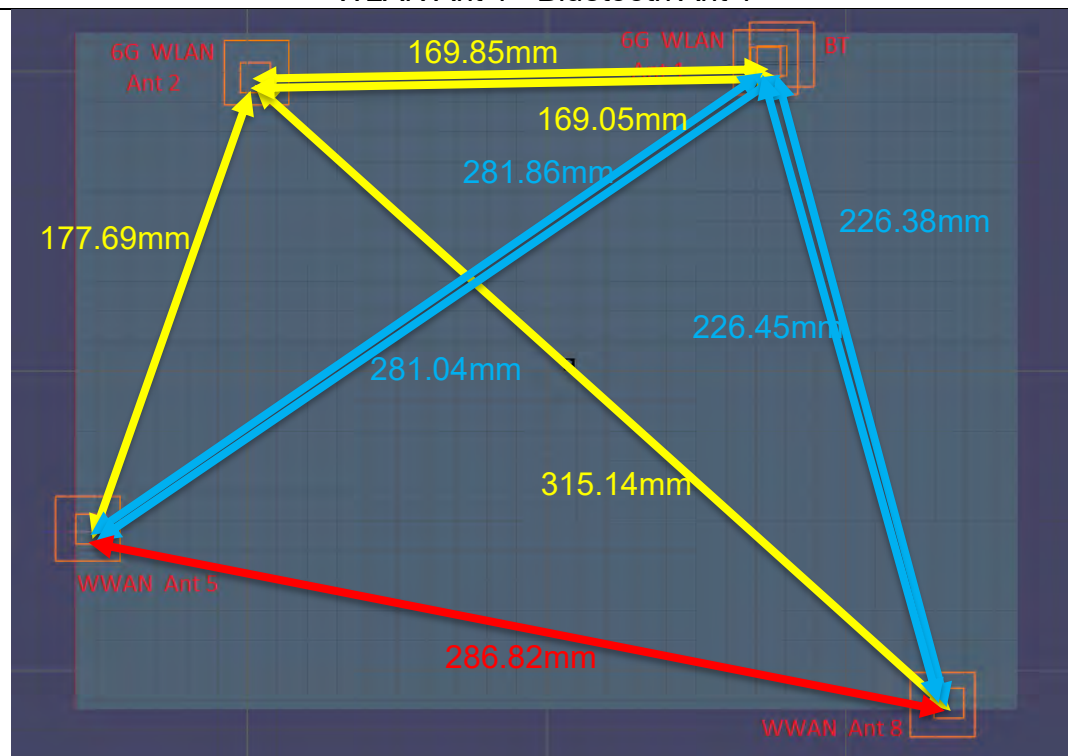
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WLAN Ant 1+ Bluetooth Ant 1



LTE Band 14_Ant 5 + LTE Band 66_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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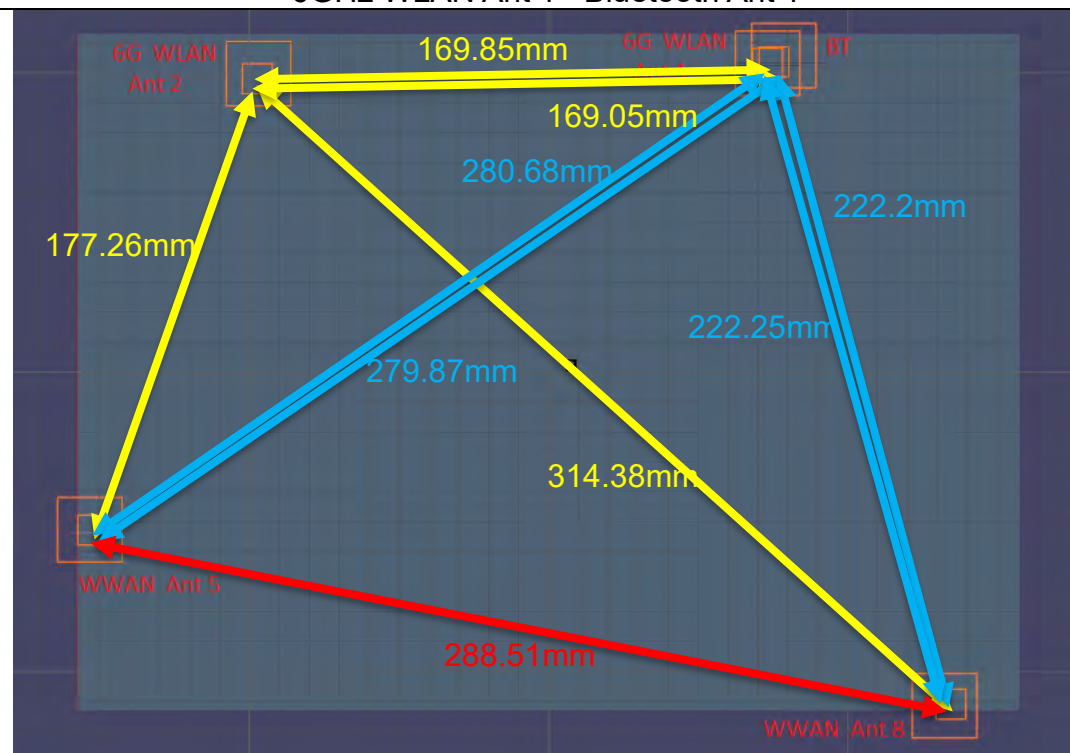
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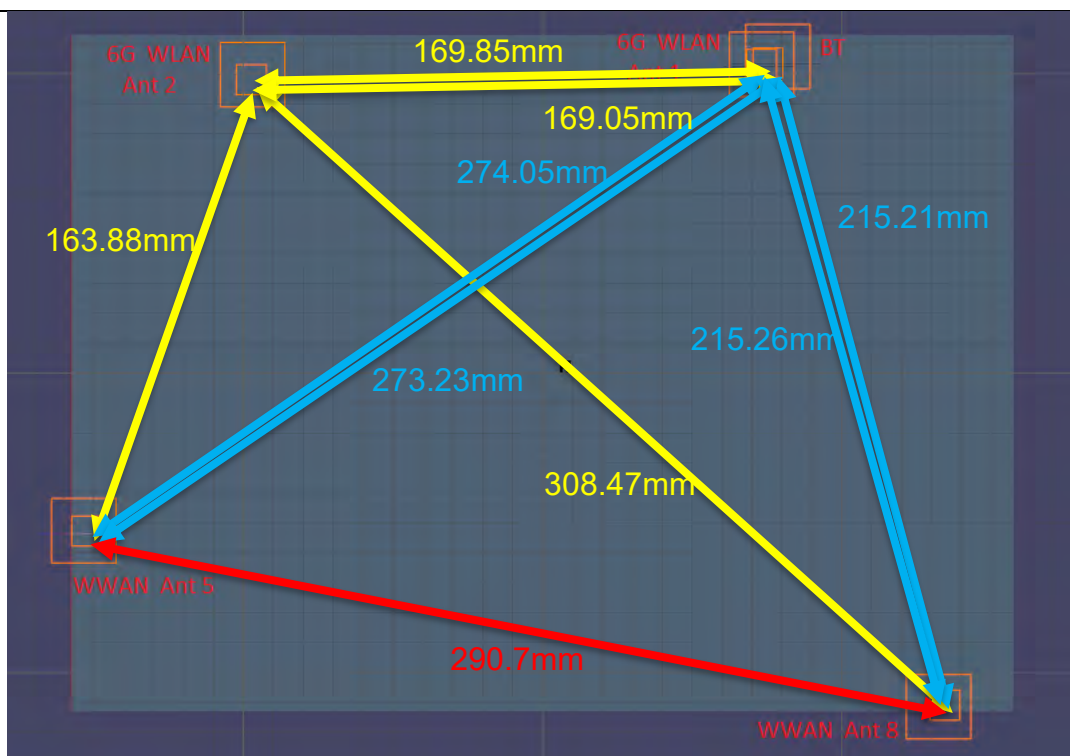
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6GHz WLAN Ant 1+ Bluetooth Ant 1



LTE Band 66_Ant 5 + LTE Band 48_Ant 8 + 6GHz WLAN Ant 2+ 6GHz
WLAN Ant 1+ Bluetooth Ant 1



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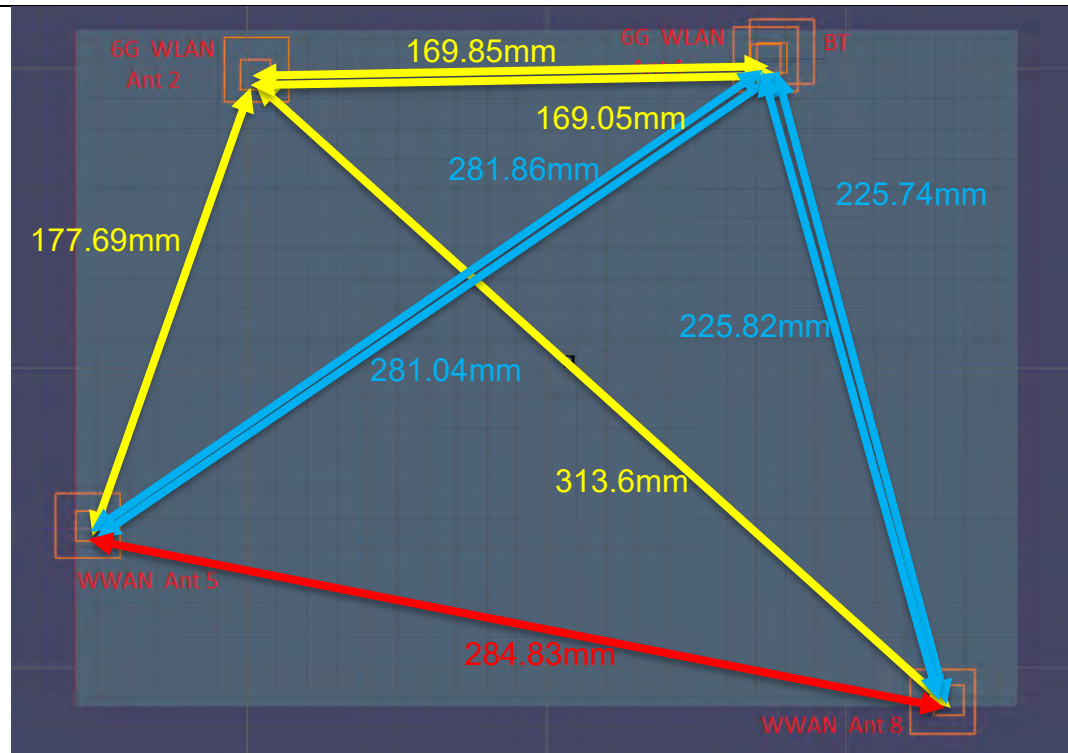
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NR n5_Ant 5 + NR n2_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+
Bluetooth Ant 1



NR n5_Ant 5 + NR n66_Ant 8 + 6GHz WLAN Ant 2+ 6GHz WLAN Ant 1+
Bluetooth Ant 1



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UPLINK MIMO

FCC Reported SAR											Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8		
Exposure Position	1	2	1									2	3	4	5	6	7	8	9	
			WLAN	2.4GHz WLAN Ant 2	2.4GHz WLAN Ant 2	5GHz WLAN Ant 2	5GHz WLAN Ant 2	Bluetooth Ant 2	5GHz WLAN Ant 2	5GHz WLAN Ant 2	5GHz WLAN Ant 2	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
NR n41_Ant 5	Bottom Surface	0	1.073	NR n41_Ant 8	1.064	0.428	0.535	1.159	1.169	0.033	0.280	0.251	2.588	2.598	4.465	3.329	4.458	2.888	2.455	2.751
NR n77_FCC_Ant 5	Bottom Surface	0	0.438	NR n77_FCC_Ant 8	0.998	0.428	0.535	1.159	1.169	0.033	0.280	0.251	2.197	1.895	3.754	2.628	3.757	1.987	1.743	2.595
NR n77 & n78_FCC_Ant 5	Bottom Surface	0	0.347	NR n77 & n78_FCC_Ant 8	0.606	0.428	0.535	1.159	1.169	0.033	0.280	0.251	1.714	1.432	3.281	2.145	3.214	1.494	1.268	1.937
NR n78_FCC_Ant 5	Bottom Surface	0	0.533	NR n78_FCC_Ant 8	0.819	0.428	0.535	1.159	1.169	0.033	0.280	0.251	2.119	1.819	3.685	2.544	3.719	1.885	1.665	1.948

NR n41_Ant 5

Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	NR n41_Ant 5	1.073	-49.60	142.80	-174.80	-	-	-	-
	NR n41_Ant 8	1.064	-108.70	-132.00	-174.00	2.137	281.08	0.011	SPLSR ≤ 0.04, Not required

NR n77_FCC_Ant 5

Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	NR n77_FCC_Ant 5	0.438	-49.00	139.00	-174.80	-	-	-	-
	NR n77_FCC_Ant 8	0.998	-101.60	-137.20	-177.00	1.436	281.17	0.006	SPLSR ≤ 0.04, Not required

NR n77 & n78_FCC_Ant 5

Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	NR n77 & n78_FCC_Ant 5	0.347	-49.00	139.00	-174.80	-	-	-	-
	NR n77 & n78_FCC_Ant 8	0.606	-100.80	-137.20	-177.00	0.953	281.02	0.003	SPLSR ≤ 0.04, Not required

NR n78_FCC_Ant 5

Position	Conditions	SAR Value (W/kg)	Coordinates (mm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	NR n78_FCC_Ant 5	0.533	-49.00	139.00	-174.80	-	-	-	-
	NR n78_FCC_Ant 8	0.819	-100.00	-137.20	-177.00	1.352	280.88	0.006	SPLSR ≤ 0.04, Not required

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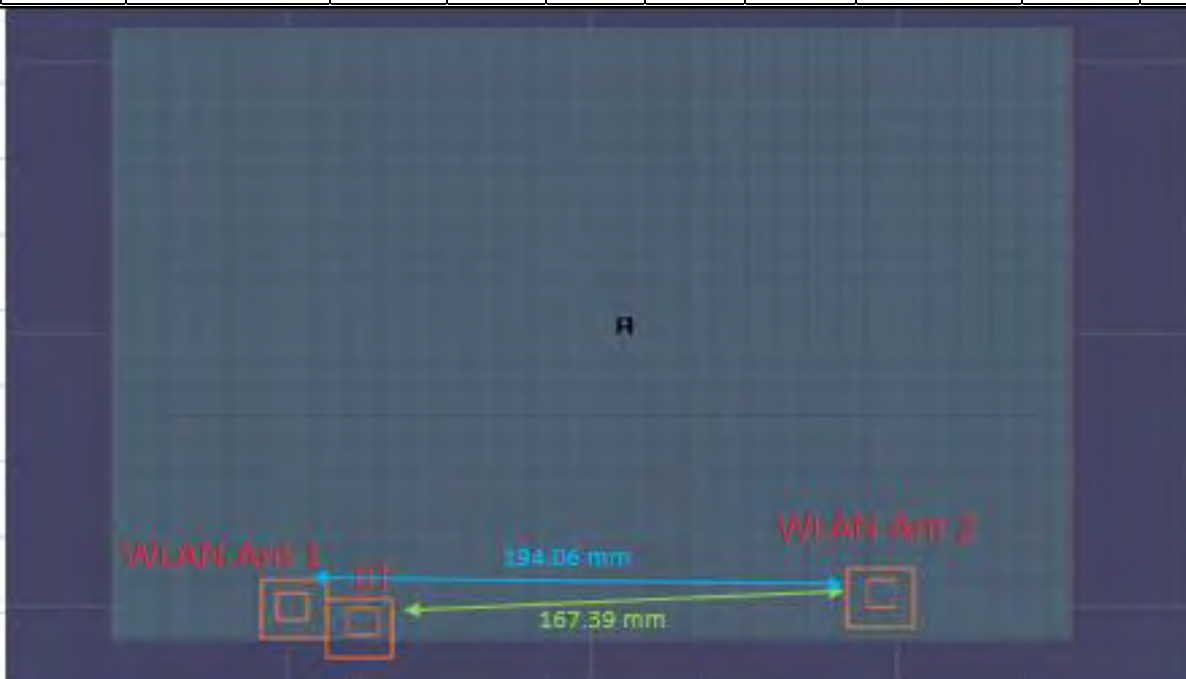
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WLAN

Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
Exposure Position	1	2	3	4	5	6	7	1+2	1+5	3+4	3+5	3+4+5	6+7	5+6	5+6+7
	2.4GHz WLAN Ant 2	2.4GHz WLAN Ant 1	5GHz WLAN Ant 2	5GHz WLAN Ant 1	Bluetooth Ant 1	6GHz WLAN Ant 2	6GHz WLAN Ant 1	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.426	0.335	1.159	1.169	0.033	0.287	0.257	0.761	0.459	2.328	1.192	2.361	0.544	0.577

Scenario 1: 3+4+5									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Ant 2	1.159	96.00	95.00	-174.00	-	-	-	-
	WLAN 5G Ant 1+BT Ant 1	1.202	104.00	-72.20	-174.00	2.361	167.39	0.022	SPLSR $\leq$ 0.04, Not required

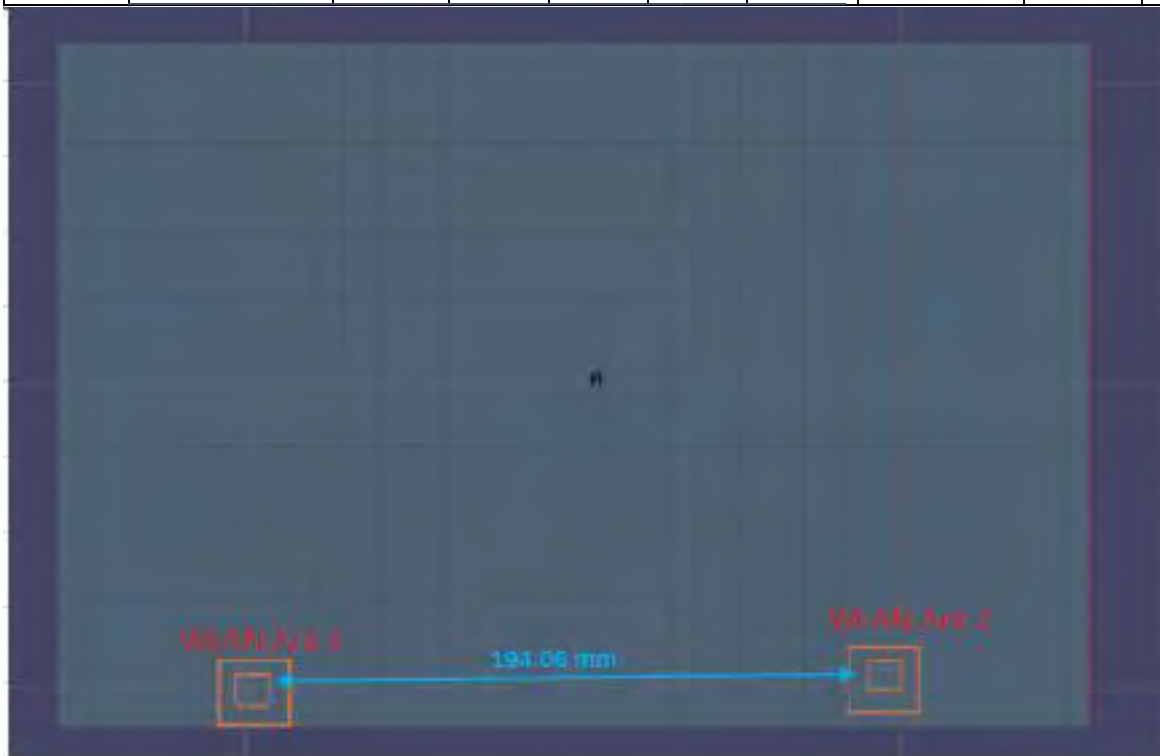


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Scenario 2: 3+4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Ant 2	1.159	96.00	95.00	-174.00	-	-	-	-
	WLAN 5G Ant 1	1.169	101.00	-99.00	-174.00	2.328	194.06	0.018	SPLSR $\leq$ 0.04, Not required



8.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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9 INSTRUMENTS LIST

SAR Test Site: SAR_4					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/21/2022	Mar/20/2023
SPEAG	System Validation Dipole	D750V3	1015	Oct/14/2021	Oct/13/2022
SPEAG	System Validation Dipole	D835V2	4d063	Oct/18/2021	Oct/17/2022
SPEAG	System Validation Dipole	D1750V2	1008	Oct/19/2021	Oct/18/2022
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/28/2022	Apr/27/2023
SPEAG	System Validation Dipole	D2300V2	1023	Oct/20/2021	Oct/19/2022
SPEAG	System Validation Dipole	D2600V2	1005	Jan/18/2022	Jan/17/2023
SPEAG	System Validation Dipole	D3500V2	1009	Oct/21/2021	Oct/20/2022
SPEAG	System Validation Dipole	D3700V2	1057	Nov/23/2021	Nov/22/2022
SPEAG	System Validation Dipole	D3900V2	1032	Nov/23/2021	Nov/22/2022
SPEAG	Data acquisition Electronics	DAE4	1719	Mar/25/2022	Mar/24/2023
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
R&S	Radio Communication Test	CMW 500	165070	Oct/12/2021	Oct/11/2022
Keysight	UXM 5G Wireless Test Platform	E7515B	MY60101215	Jan/21/2022	Jan/20/2023
Agilent	Dual-directional coupler	778D	MY48220468	Aug/16/2021	Aug/15/2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug/16/2021	Aug/15/2022
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/23/2021	Dec/22/2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
Anritsu	Power Meter	ML2496A	1337004	Oct/08/2021	Oct/07/2022
Anritsu	Power Sensor	MA2411B	1306052	Oct/08/2021	Oct/07/2022
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP130077	Oct/28/2021	Oct/27/2022

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SAR Test Site: SAR_03					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/05/2021	Oct/06/2022
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/26/2022	Jan/25/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/26/2021	Aug/25/2022
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/26/2021	Aug/25/2022
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Software	DASY 6 V16.0.0.116	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	Dual-directional coupler	772D	MY52180142	Nov/02/2021	Nov/01/2022
Agilent	Dual-directional coupler	778D	MY52180302	Oct/29/2021	Oct/28/2022
Agilent	MXG Analog Signal Generator	N5181A	MY50145142	Dec/23/2021	Dec/22/2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	109065	Oct/12/2021	Oct/11/2022
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP190085	Jan/14/2022	Jan/13/2023

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SAR Test Site: SAR_04					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Mar/21/2022	Mar/20/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	Data acquisition Electronics	DAE4	1719	Mar/25/2022	Mar/24/2023
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	Dual-directional coupler	778D	MY48220468	Aug/16/2021	Aug/15/2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug/16/2021	Aug/15/2022
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	May/19/2022	May/18/2023
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
Anritsu	Power Meter	ML2496A	1337004	Oct/08/2021	Oct/07/2022
Anritsu	Power Sensor	MA2411B	1306052	Oct/08/2021	Oct/07/2022
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP130075	Oct/28/2021	Oct/27/2022

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10 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.88%	N	1	1	0.64	0.43	1.84%	1.24%	M
Liquid Conductivity (mea.)	3.79%	N	1	1	0.6	0.49	2.27%	1.86%	M
Combined standard uncertainty		RSS					12.08%	11.92%	
Expant uncertainty (95% confidence interval), K=2							24.15%	23.84%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distribution	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.74%	N	1	1	0.64	0.43	1.75%	1.18%	M
Liquid Conductivity (mea.)	4.54%	N	1	1	0.6	0.49	2.72%	2.22%	M
Combined standard uncertainty		RSS					11.87%	11.68%	
Expart uncertainty (95% confidence interval), K=2							23.74%	23.37%	

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DASY6 Uncertainty Budget
According to IEC/IEEE 62209-1528
(Frequency band: 6GHz - 10GHz range)

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling	0.147	R	√3	1.732	1	1	0.1	0.1
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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cDASY6 Module mmWave Uncertainty Budget for PD Evaluation Distances to the Antennas $\geq \lambda/5$ In Compliance with IEC/IEEE 63195

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Frequency response (BW $\leq$ 1GHz)	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	∞
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Field impedance dependance	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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11 SAR MEASUREMENT RESULTS

ID: 036

Report No. : TESA2206000152E5

Measurement Report for HP R2022, WCDMA Band II_Body_Bottom Surface_CH 9538_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1907.6, 9538	8.54	1.45	40.715

Hardware Setup

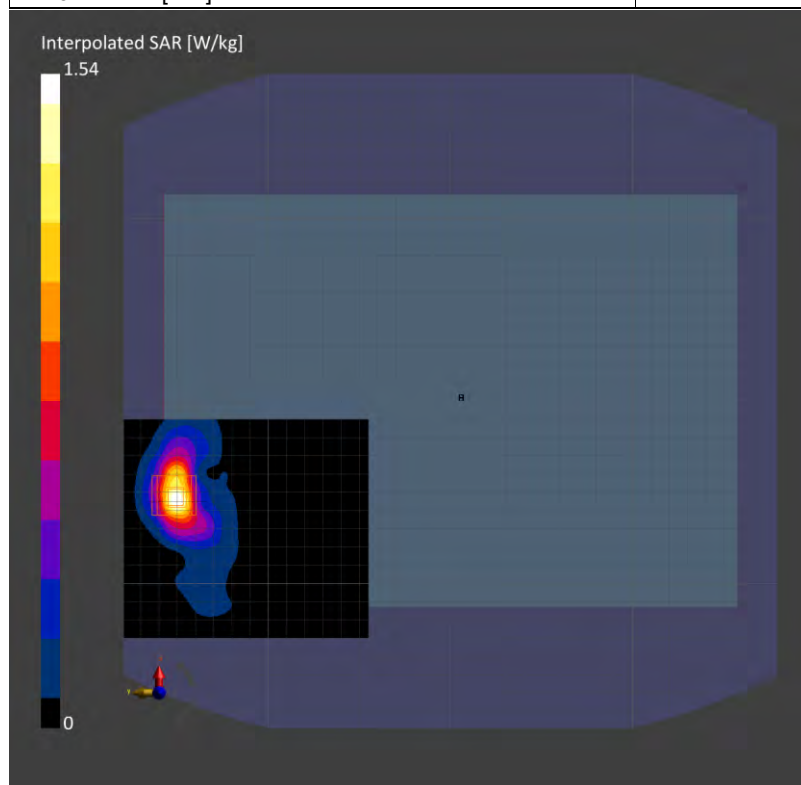
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.816	0.858
psSAR10g [W/kg]	0.401	0.418
Power Drift [dB]	0.03	-0.04
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		10.6



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ID: 037

Report No. : TESA2206000152E5

Measurement Report for HP R2022, WCDMA Band IV_Body_Bottom Surface_CH1513_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1752.6, 1513	9.03	1.416	40.789

Hardware Setup

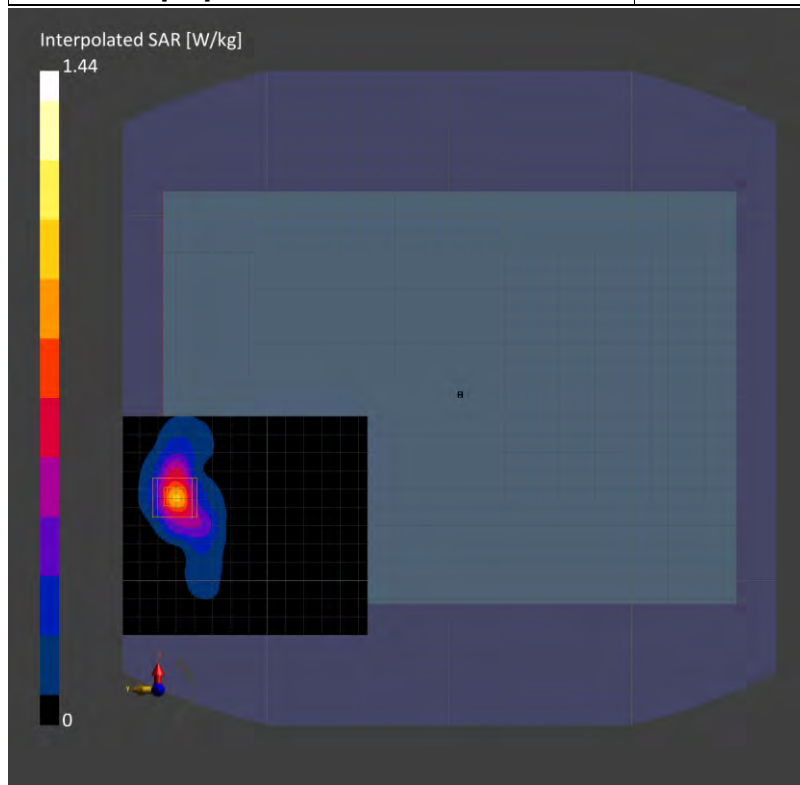
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.756	0.781
psSAR10g [W/kg]	0.381	0.388
Power Drift [dB]	0.03	0.03
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		9.2



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ID: 038

Report No. : TESA2206000152E5

Measurement Report for HP R2022, WCDMA Band V_Body_Bottom Surface_CH 4132_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	826.4, 4132	10.87	0.925	42.302

Hardware Setup

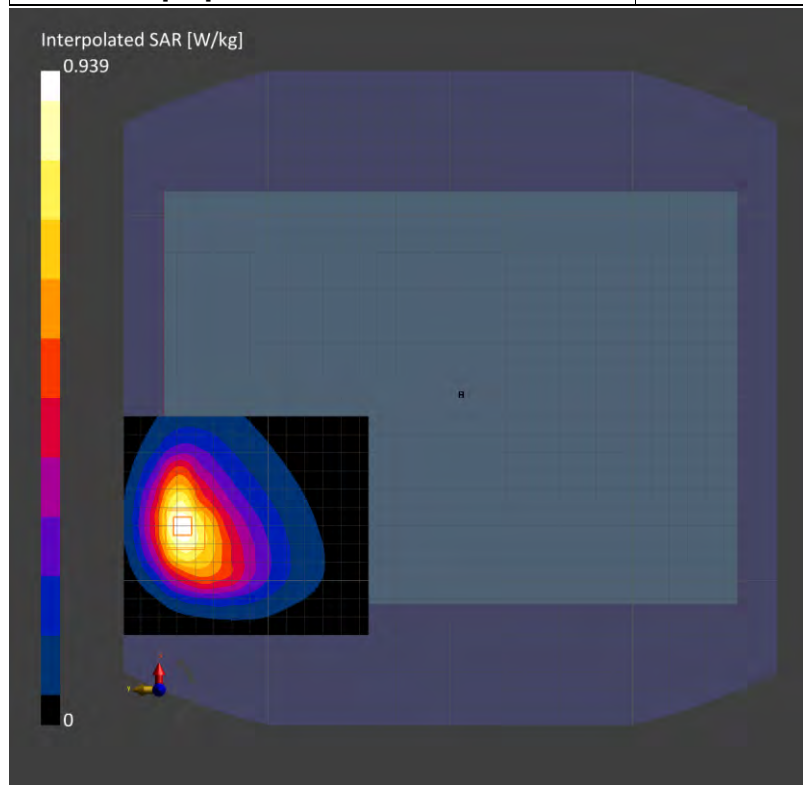
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.590	0.603
psSAR10g [W/kg]	0.384	0.388
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		16.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 2 (20MHz)_Body_Bottom Surface_CH 19100_QPSK_1-0_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1900.0, 19100	8.54	1.45	40.715

Hardware Setup

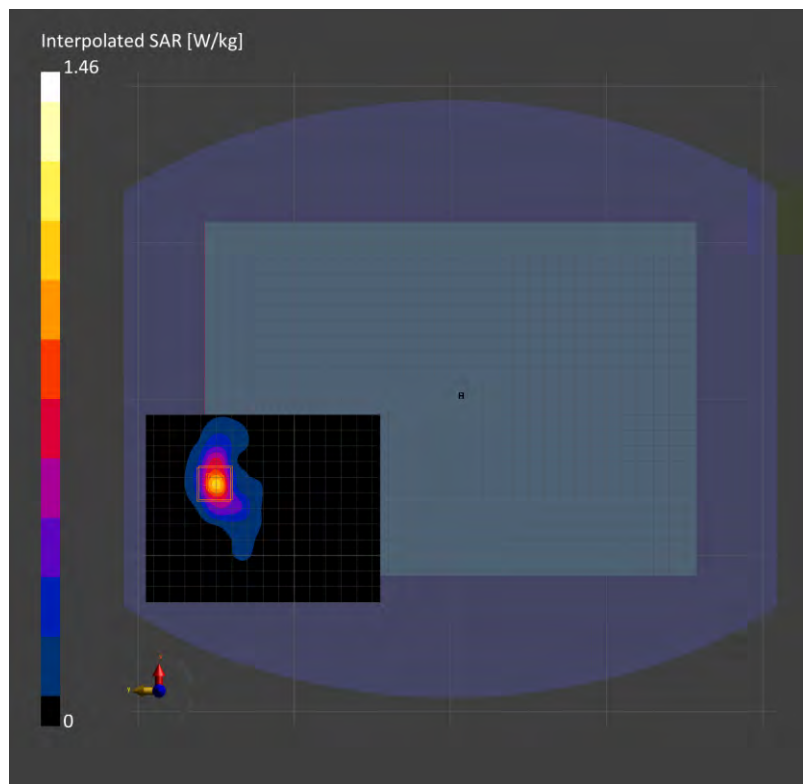
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.775	0.789
psSAR10g [W/kg]	0.372	0.380
Power Drift [dB]	0.02	0.04
M2/M1 [%]		55.1
Dist 3dB Peak [mm]		11.5



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 4 (20MHz)_Body_Bottom Surface_CH 20300_QPSK_1-0_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1745.0, 20300	9.03	1.411	40.802

Hardware Setup

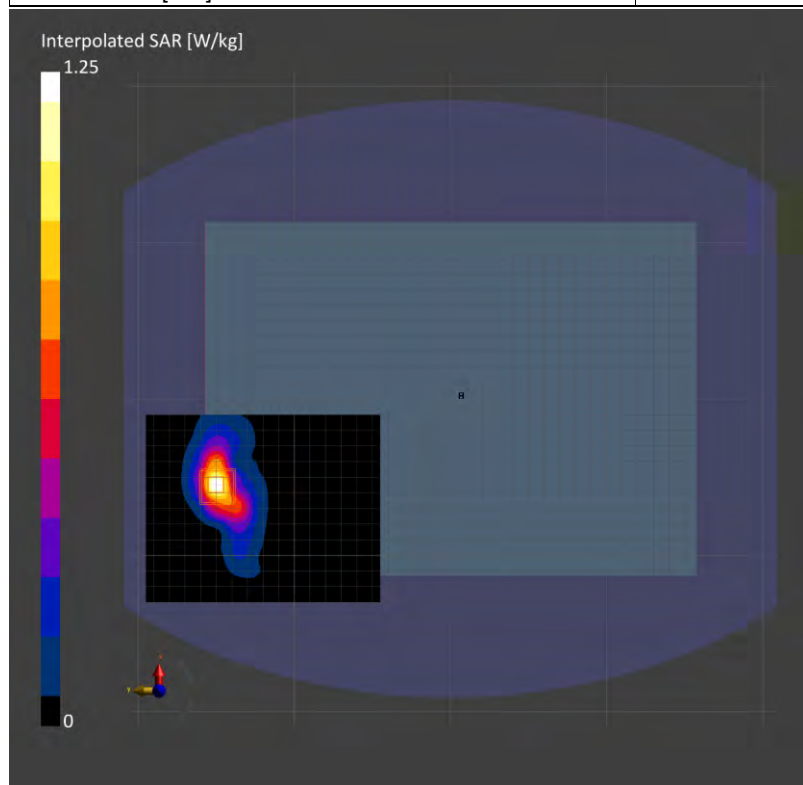
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.681	0.680
psSAR10g [W/kg]	0.343	0.340
Power Drift [dB]	0.03	0.02
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		12.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 5 (10MHz)_Body_Bottom Surface_CH 20450_QPSK_1-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	829.0, 20450	10.87	0.927	42.291

Hardware Setup

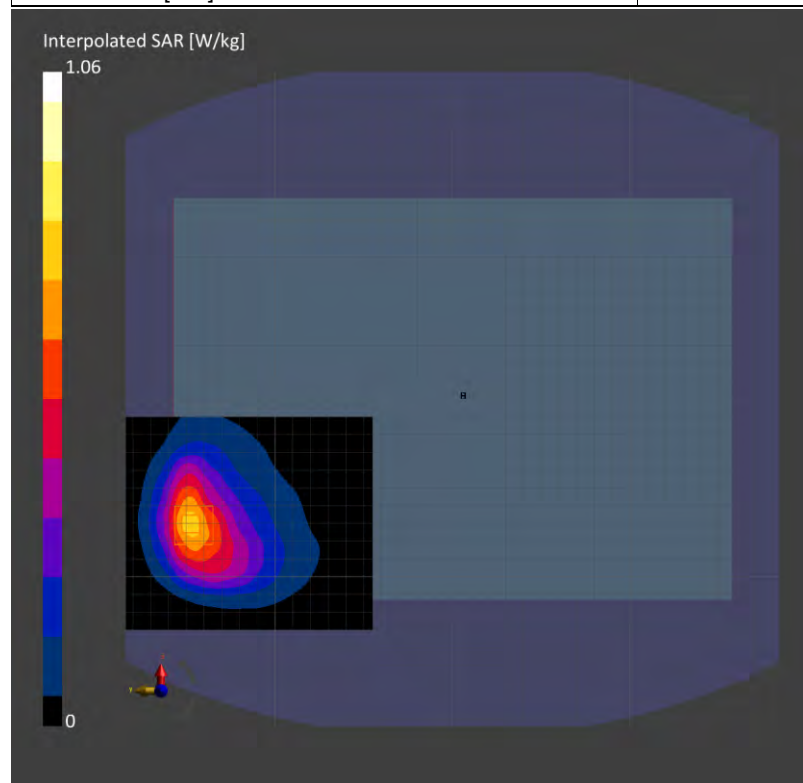
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.659	0.666
psSAR10g [W/kg]	0.425	0.423
Power Drift [dB]	0.02	0.01
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		14.4



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ID: 042

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 7 (20MHz)_Body_Bottom Surface_CH 21350_QPSK_50-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2560.0, 21350	7.91	1.972	39.775

Hardware Setup

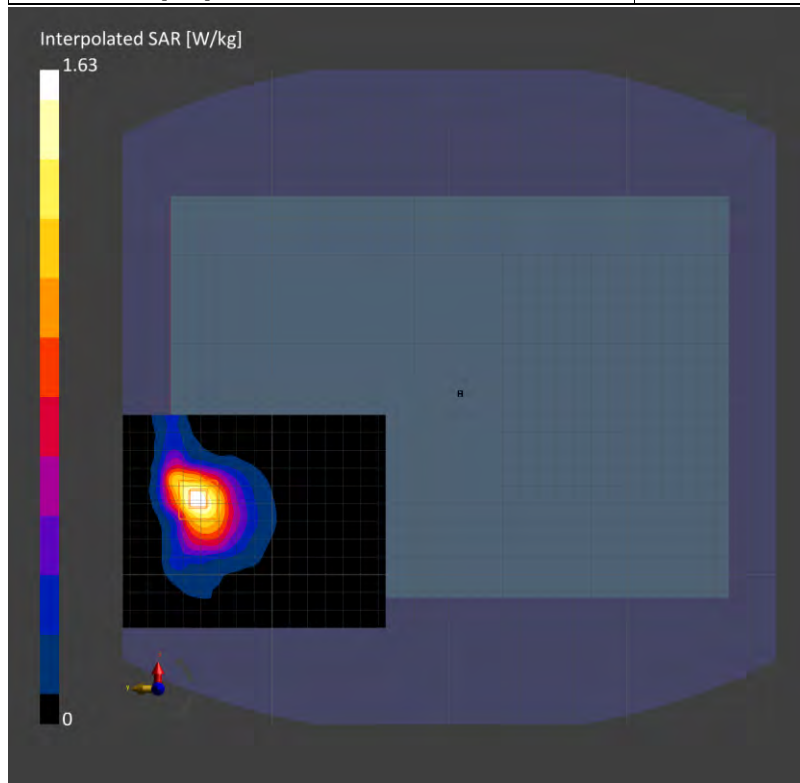
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.813	0.867
psSAR10g [W/kg]	0.421	0.461
Power Drift [dB]	0.03	0.01
M2/M1 [%]		54.2
Dist 3dB Peak [mm]		12.5



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ID: 043

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 12 (10MHz)_Body_Bottom Surface_CH 23060_QPSK_50-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	704.0, 23060	11.14	0.905	42.896

Hardware Setup

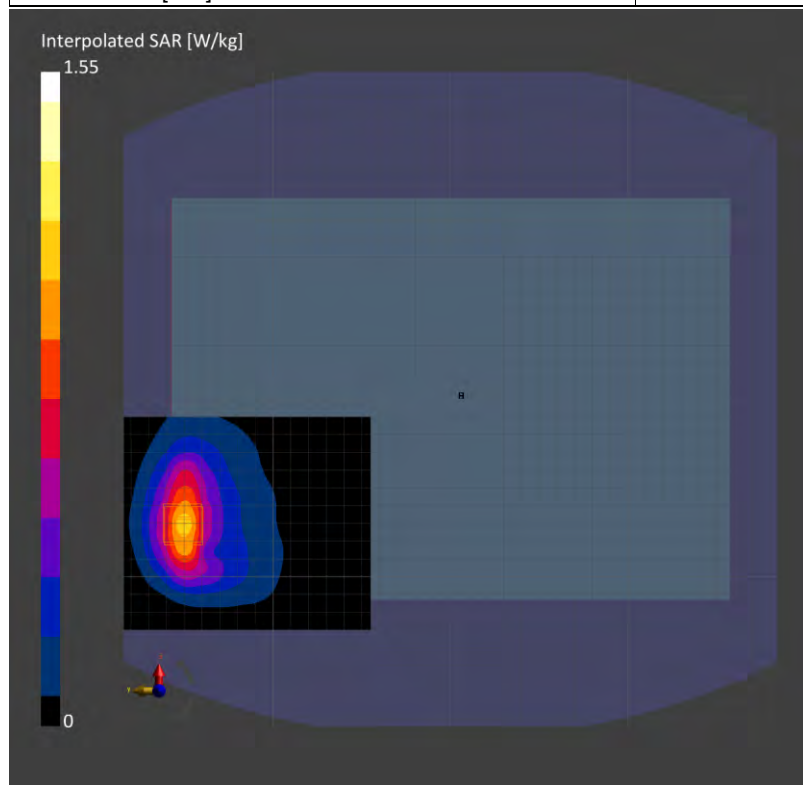
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.945	0.926
psSAR10g [W/kg]	0.595	0.554
Power Drift [dB]	0.02	0.02
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		12.2



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 13 (10MHz)_Body_Bottom Surface_CH 23230_QPSK_25-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	782.0, 23230	11.14	0.914	42.49

Hardware Setup

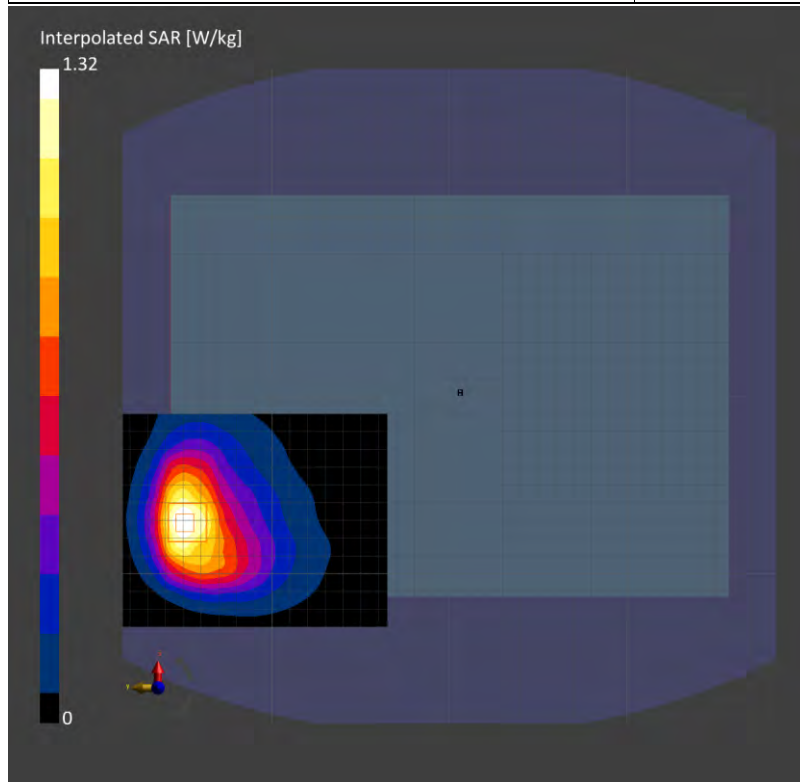
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.755	0.820
psSAR10g [W/kg]	0.499	0.511
Power Drift [dB]	0.02	0.01
M2/M1 [%]		61.5
Dist 3dB Peak [mm]		12.8



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 14 (10MHz)_Body_Bottom Surface_CH 23330_QPSK_1-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	793.0, 23330	11.14	0.914	42.433

Hardware Setup

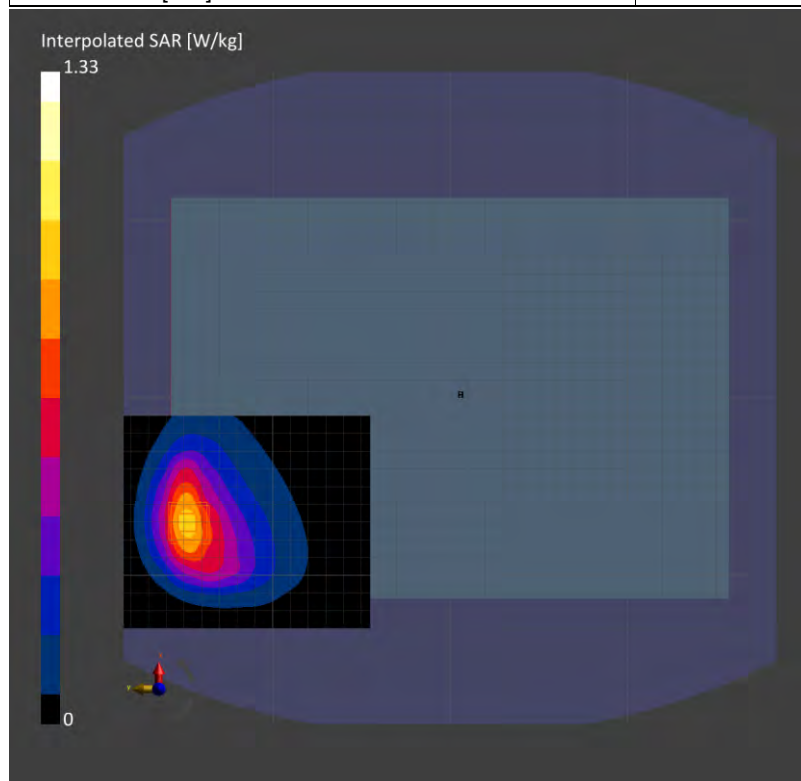
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.827	0.821
psSAR10g [W/kg]	0.534	0.515
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		60.5
Dist 3dB Peak [mm]		14.4



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ID: 046

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 17 (10MHz)_Body_Bottom Surface_CH 23800_QPSK_50-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	711.0, 23800	11.14	0.906	42.859

Hardware Setup

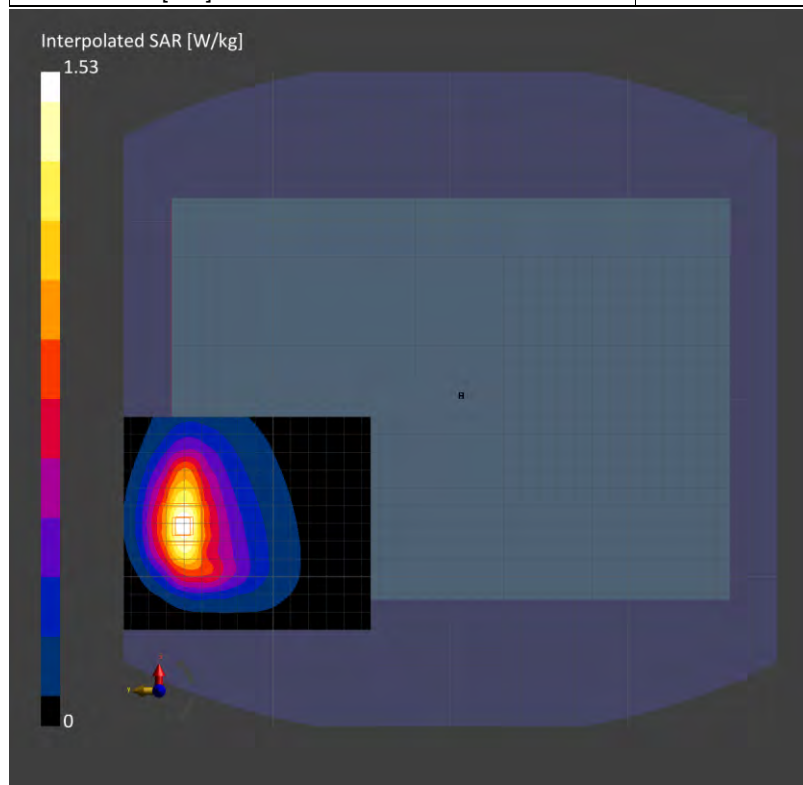
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.913	0.913
psSAR10g [W/kg]	0.581	0.551
Power Drift [dB]	-0.03	0.03
M2/M1 [%]		58.1
Dist 3dB Peak [mm]		13.7



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 25 (20MHz)_Body_Bottom Surface_CH 26590_QPSK_50-25_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1905.0, 26590	8.54	1.45	40.715

Hardware Setup

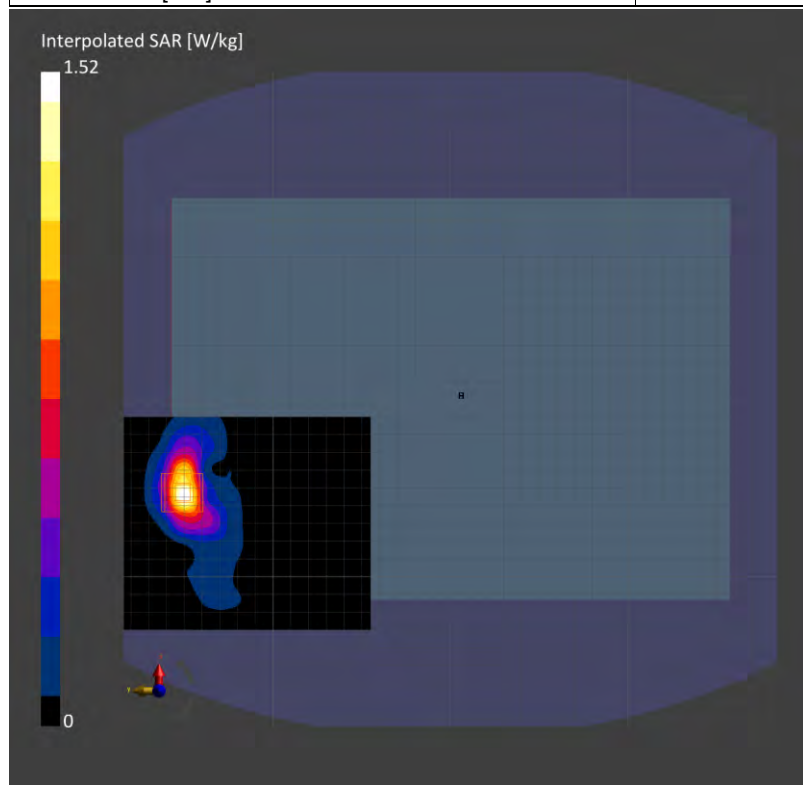
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.819	0.845
psSAR10g [W/kg]	0.398	0.409
Power Drift [dB]	0.04	-0.03
M2/M1 [%]		55.6
Dist 3dB Peak [mm]		11.8



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 26 (15MHz)_Body_Bottom Surface_CH 26965_QPSK_1-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	841.5.0, 26965	10.87	0.932	42.244

Hardware Setup

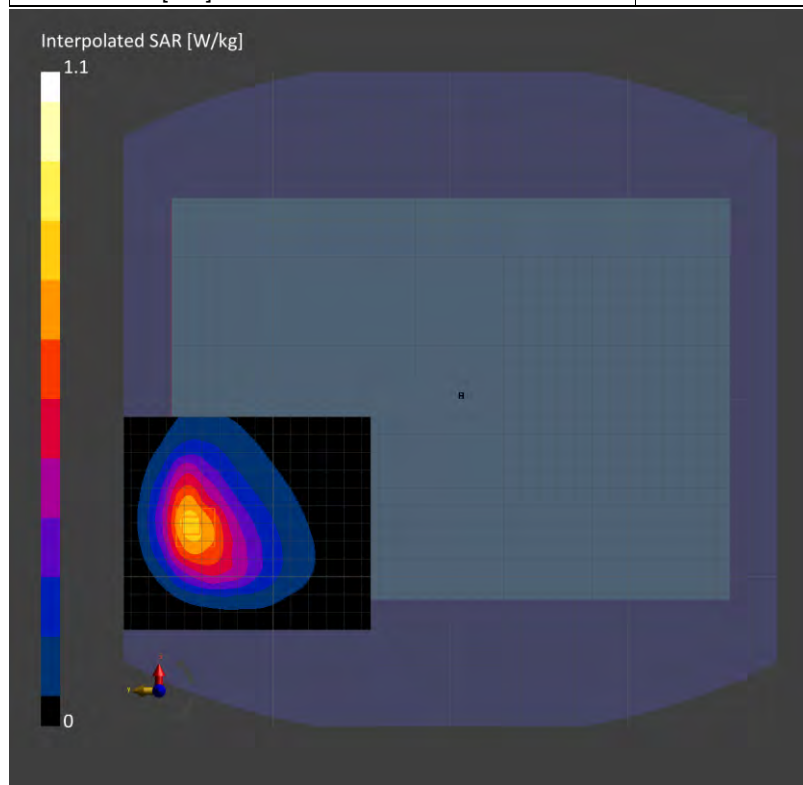
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.693	0.706
psSAR10g [W/kg]	0.455	0.456
Power Drift [dB]	0.02	0.01
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		16.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 30 (10MHz)_Body_Bottom Surface_CH 27710_QPSK_1-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2310.0, 27710	8.46	1.748	40.164

Hardware Setup

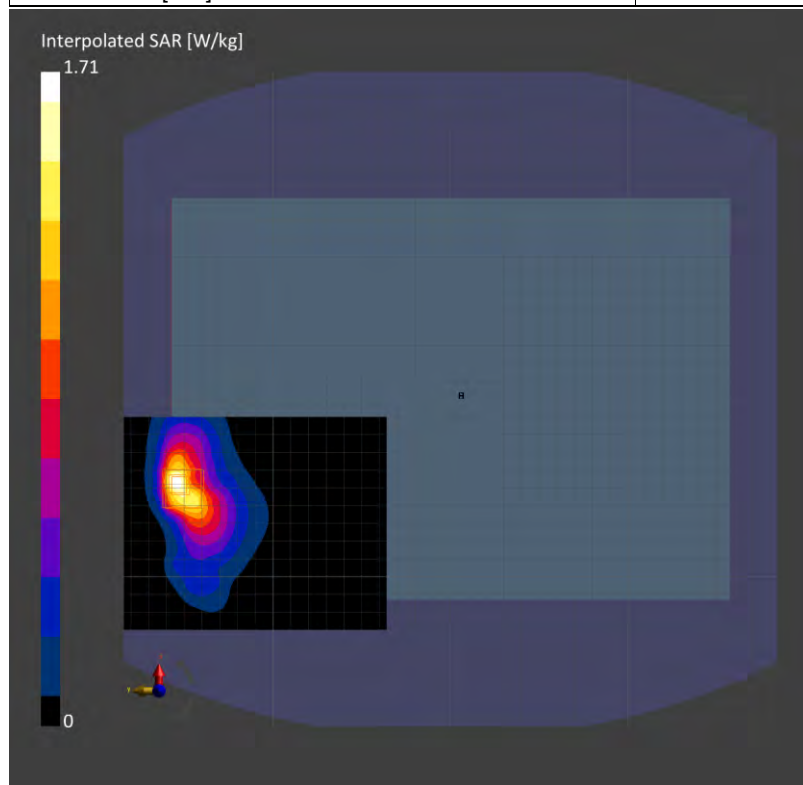
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.713	0.884
psSAR10g [W/kg]	0.362	0.405
Power Drift [dB]	0.01	0.03
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		7.1



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 66 (20MHz)_Body_Bottom Surface_CH 132572_QPSK_50-0_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1770.0, 132572	9.03	1.426	40.762

Hardware Setup

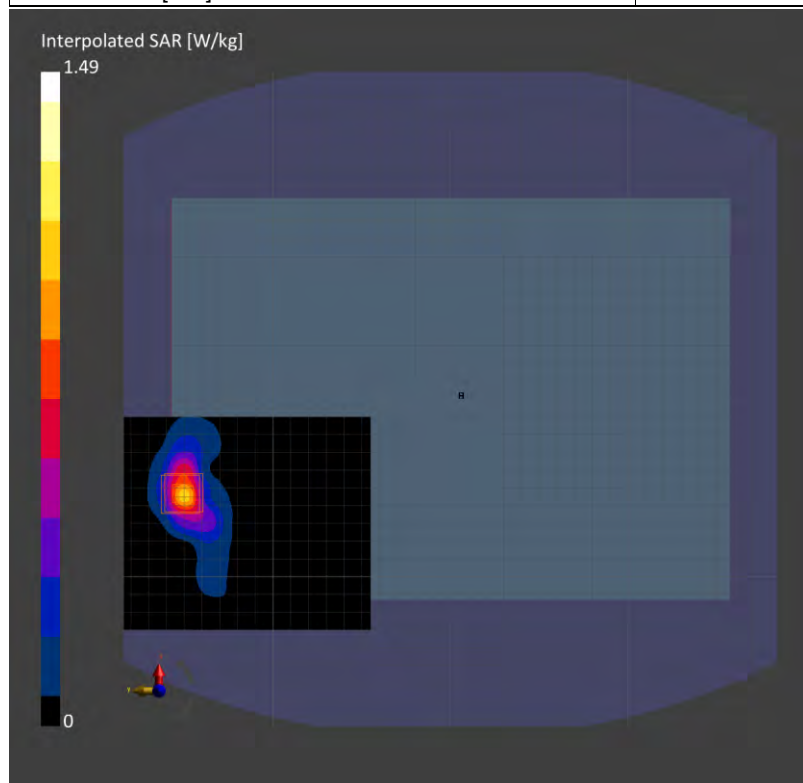
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.813	0.806
psSAR10g [W/kg]	0.402	0.397
Power Drift [dB]	0.01	0.02
M2/M1 [%]		54.5
Dist 3dB Peak [mm]		10.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 71 (20MHz)_Body_Bottom Surface_CH 133297_QPSK_100-0_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	680.5, 133297	11.14	0.903	43

Hardware Setup

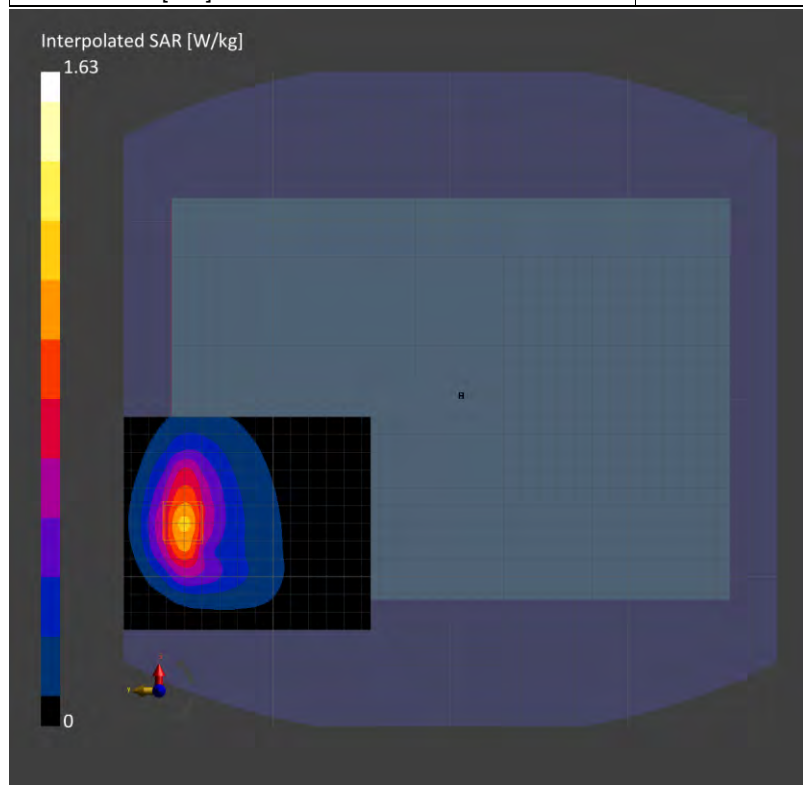
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.962	0.967
psSAR10g [W/kg]	0.614	0.585
Power Drift [dB]	0.02	-0.05
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		13.7



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ID: 052

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 38 (20MHz)_Body_Bottom Surface_CH 38150_QPSK_50-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2610.0, 38150	7.91	2.018	39.711

Hardware Setup

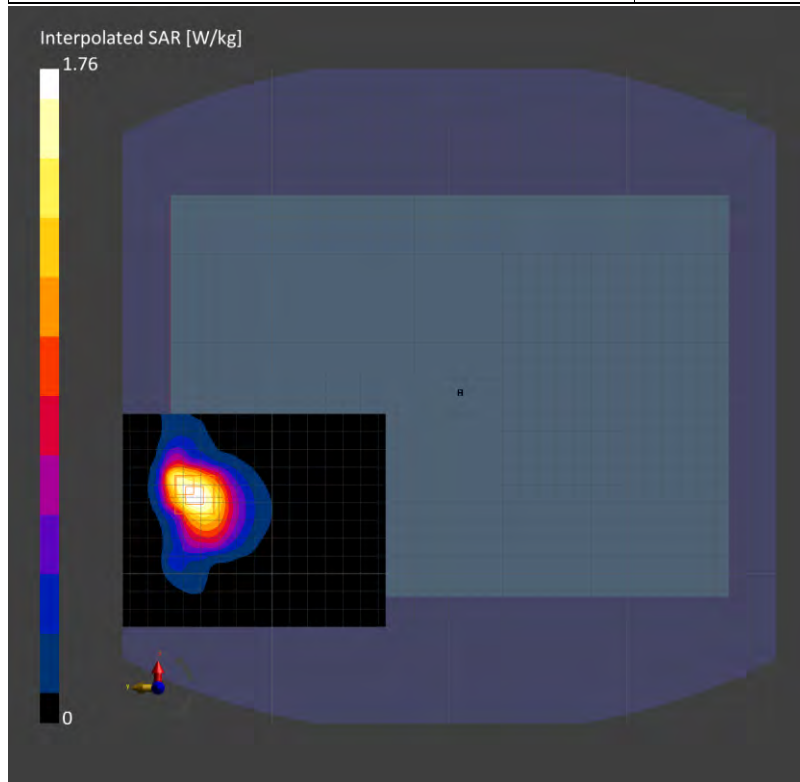
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.818	0.934
psSAR10g [W/kg]	0.432	0.481
Power Drift [dB]	0.02	0.03
M2/M1 [%]		51.8
Dist 3dB Peak [mm]		8.5



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ID: 053

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 41 (20MHz)_Body_Bottom Surface_CH 40620_QPSK_1-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2593.0, 40620	7.91	2.002	39.733

Hardware Setup

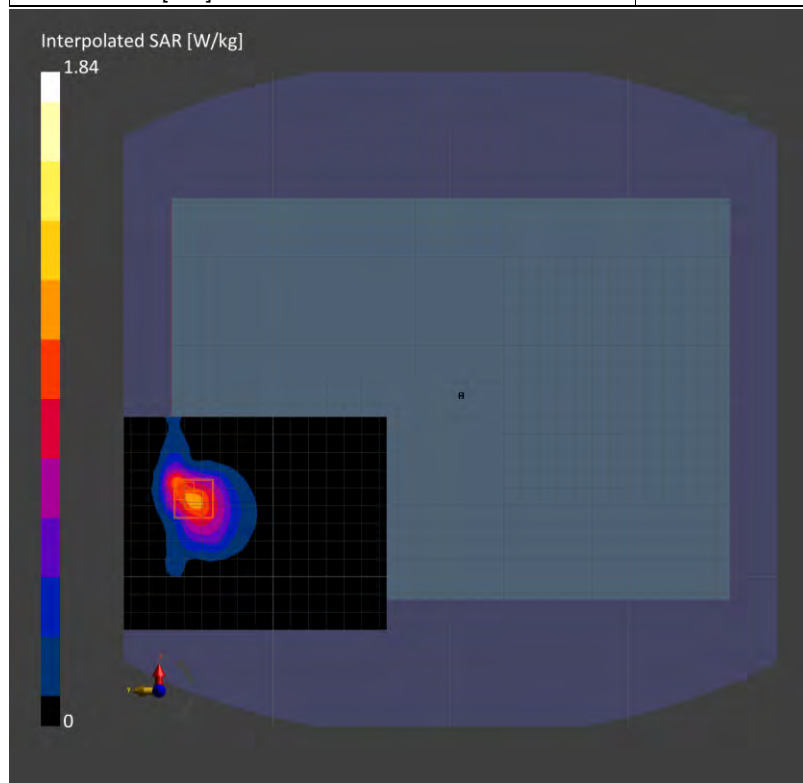
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.902	0.977
psSAR10g [W/kg]	0.469	0.512
Power Drift [dB]	0.03	-0.03
M2/M1 [%]		52.9
Dist 3dB Peak [mm]		8.5



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ID: 054

Report No. : TESA2206000152E5

Measurement Report for HP R2022, n2 (20MHz)_Body_Bottom Surface_CH 376000_BPSK_100-0_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1880.0, 376000	8.54	1.45	40.715

Hardware Setup

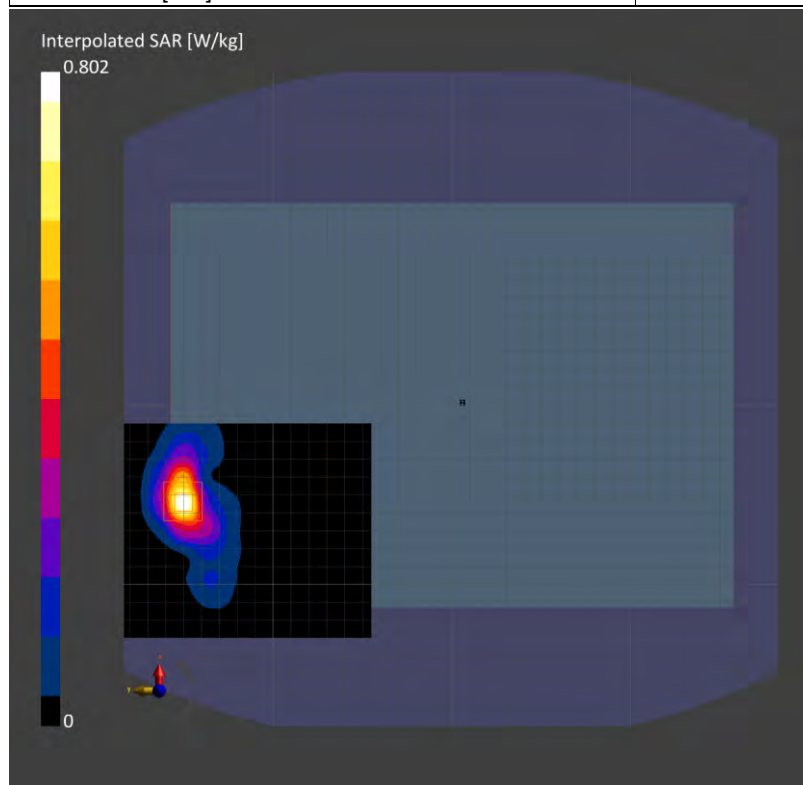
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.610	0.658
psSAR10g [W/kg]	0.301	0.316
Power Drift [dB]	0.01	0.06
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		10.6



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ID: 055

Report No. : TESA2206000152E5

Measurement Report for HP R2022, n5 (20MHz)_Body_Bottom Surface_CH 167800_BPSK_50-28_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	839.0, 167800	10.87	0.93	42.255

Hardware Setup

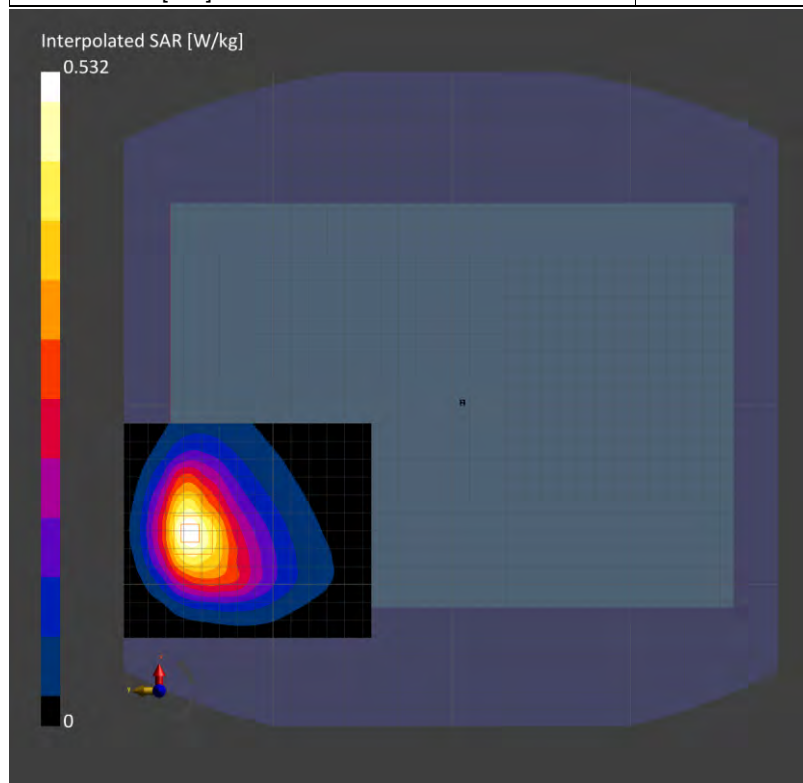
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.671	0.664
psSAR10g [W/kg]	0.427	0.423
Power Drift [dB]	0.03	0.05
M2/M1 [%]		62.4
Dist 3dB Peak [mm]		16.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n7 (20MHz)_Body_Bottom Surface_CH 512000_BPSK_50-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2560.0, 512000	7.91	1.972	39.775

Hardware Setup

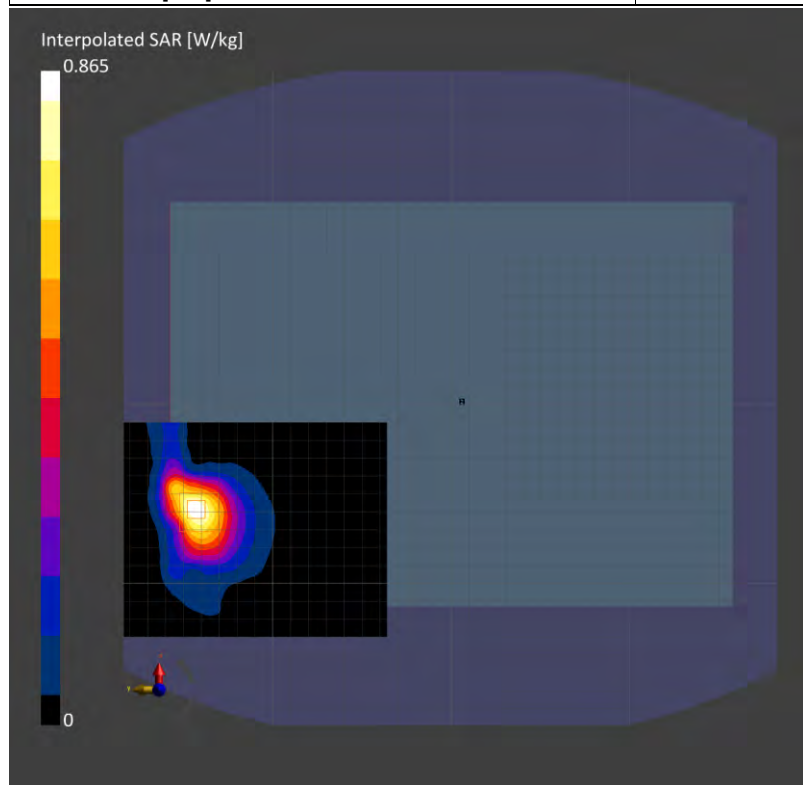
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.674	0.744
psSAR10g [W/kg]	0.348	0.388
Power Drift [dB]	0.03	0.02
M2/M1 [%]		51.7
Dist 3dB Peak [mm]		8.9



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n25 (20MHz)_Body_Bottom Surface_CH 381000_BPSK_100-0_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1905.0, 381000	8.54	1.45	40.715

Hardware Setup

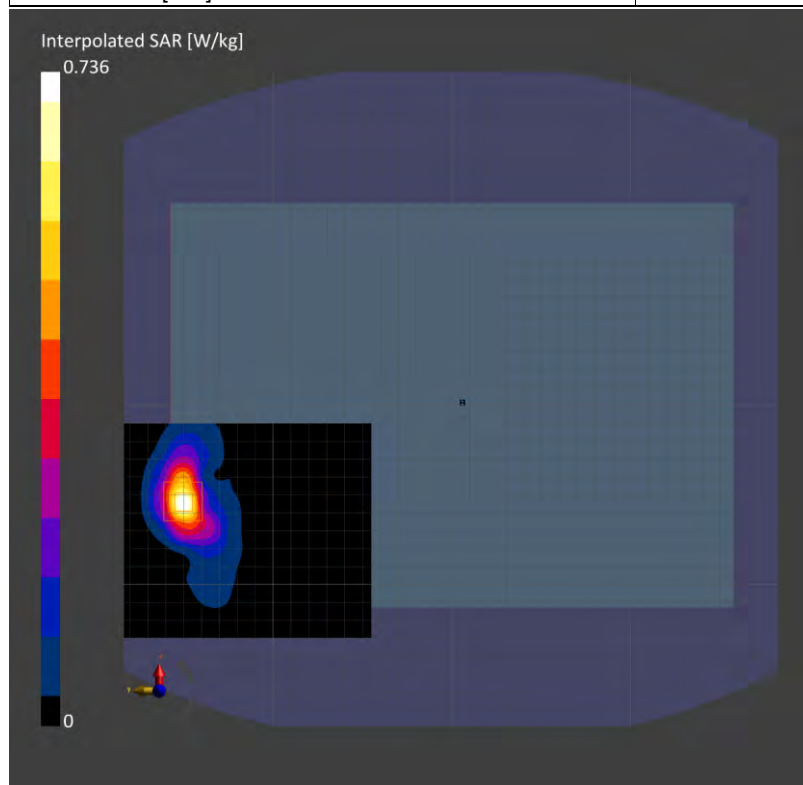
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.558	0.580
psSAR10g [W/kg]	0.276	0.283
Power Drift [dB]	0.05	0.02
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		9.6



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n30 (10MHz)_Body_Bottom Surface_CH 462000_BPSK_100-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2310.0, 462000	8.46	1.748	40.164

Hardware Setup

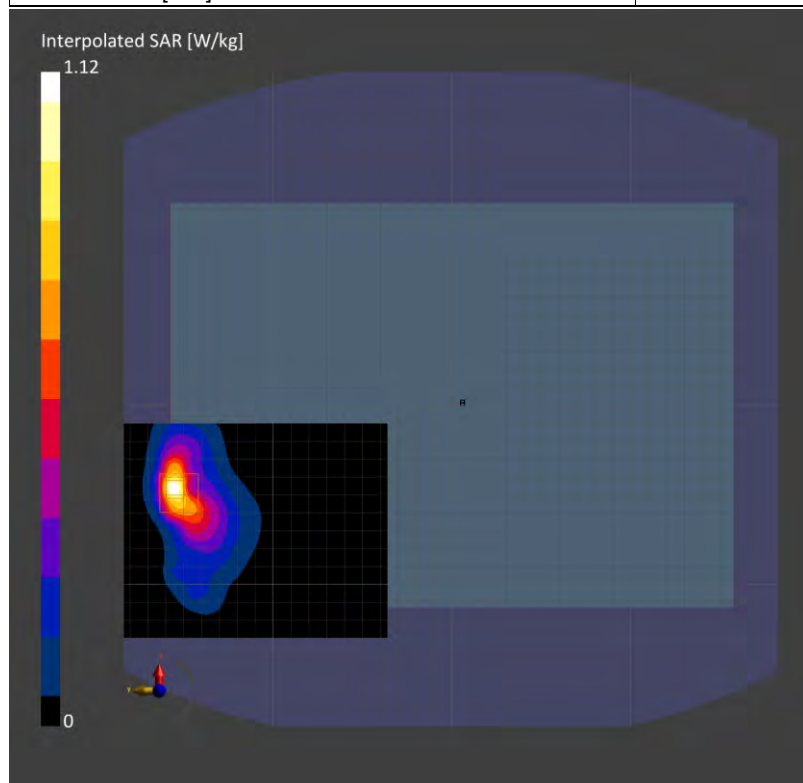
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.799	0.869
psSAR10g [W/kg]	0.370	0.398
Power Drift [dB]	0.04	-0.05
M2/M1 [%]		56.2
Dist 3dB Peak [mm]		7.1



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n66 (20MHz)_Body_Bottom Surface_CH 354000_BPSK_50-56_0mm_Ant 5

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1770.0, 354000	9.03	1.426	40.762

Hardware Setup

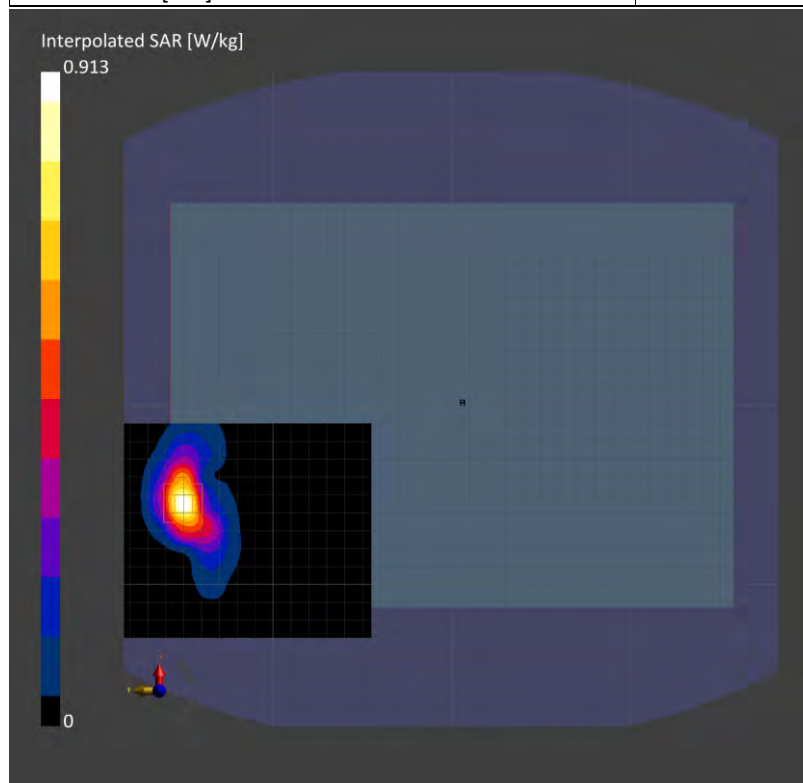
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-29	2022-07-29
psSAR1g [W/kg]	0.699	0.750
psSAR10g [W/kg]	0.354	0.373
Power Drift [dB]	0.01	-0.04
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		16.0



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n71 (20MHz)_Body_Bottom Surface_CH 134600_BPSK_1-1_0mm_Ant 5

Ambient temperature: 23.4°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	673.0, 134600	11.14	0.902	43

Hardware Setup

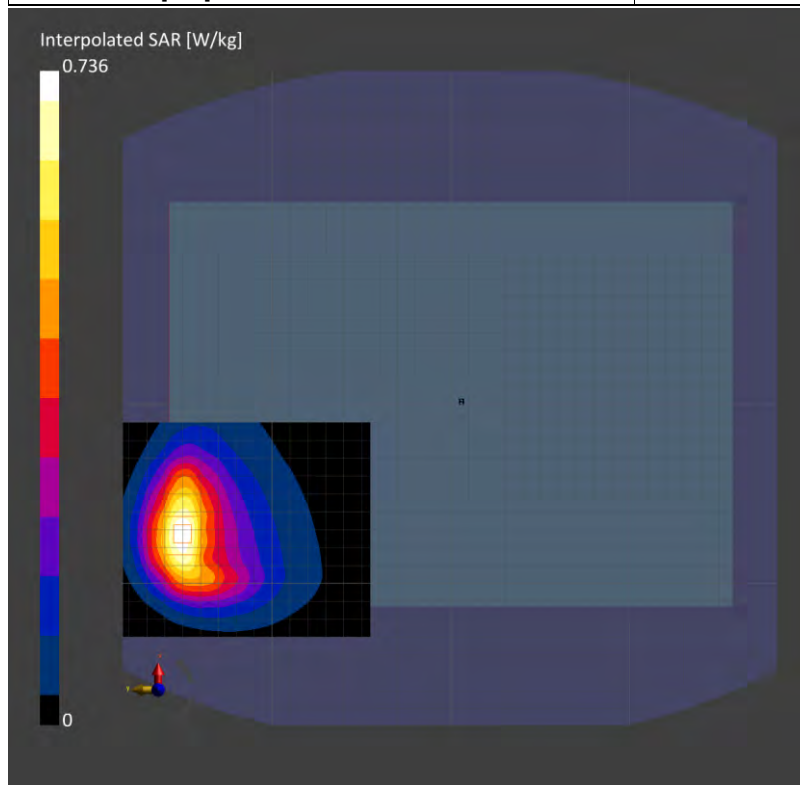
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-28	2022-07-28
psSAR1g [W/kg]	0.631	0.646
psSAR10g [W/kg]	0.412	0.395
Power Drift [dB]	0.01	0.04
M2/M1 [%]		52.1
Dist 3dB Peak [mm]		16.0



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ID: 061

Report No. : TESA2206000152E5

Measurement Report for HP R2022, n38 (20MHz)_Body_Bottom Surface_CH 519000_BPSK_1-1_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2595.0, 519000	7.91	2.004	39.731

Hardware Setup

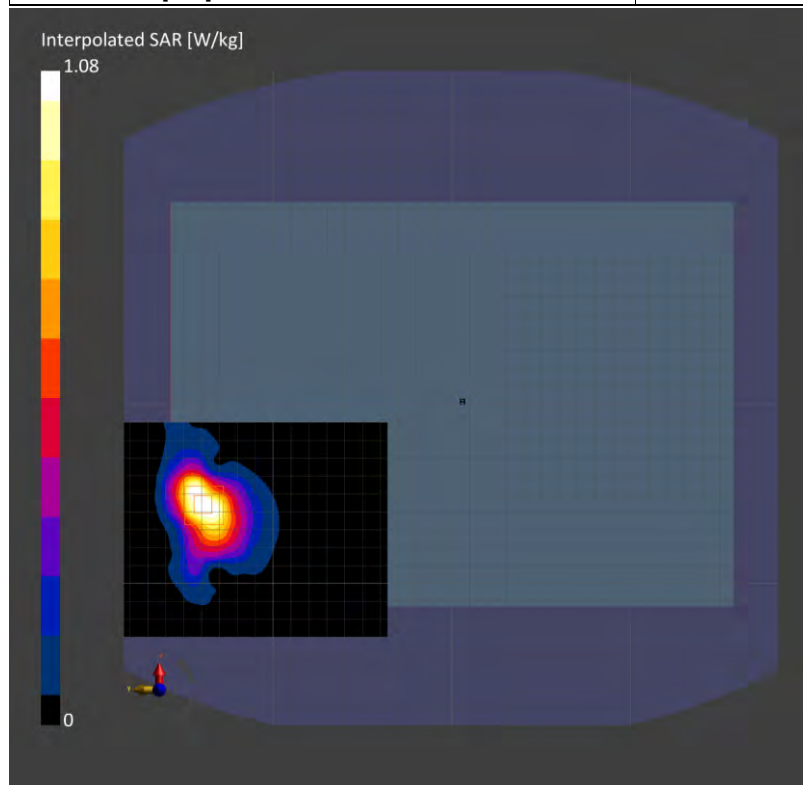
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.878	0.899
psSAR10g [W/kg]	0.455	0.480
Power Drift [dB]	0.03	0.02
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		9.0



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ID: 062

Report No. : TESA2206000152E5

Measurement Report for HP R2022, n41 (100MHz)_Body_Bottom Surface_CH 528000_BPSK_270-0_0mm_Ant 5

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2640.0, 528000	7.91	2.046	39.673

Hardware Setup

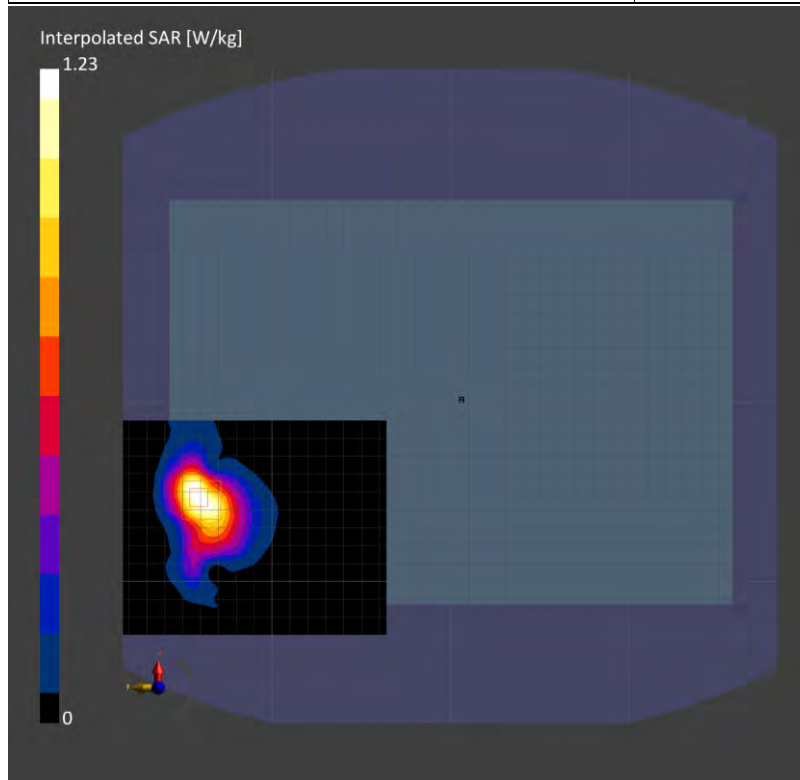
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.977	1.02
psSAR10g [W/kg]	0.504	0.527
Power Drift [dB]	0.02	0.05
M2/M1 [%]		52.8
Dist 3dB Peak [mm]		8.2



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ID: 063

Report No. : TESA2206000152E5

Measurement Report for HP R2022, n77 (100MHz)_Body_Bottom Surface_CH 656000_BPSK_135-0_0mm_Ant 5

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3840.0, 656000	7.03	3.334	38.54

Hardware Setup

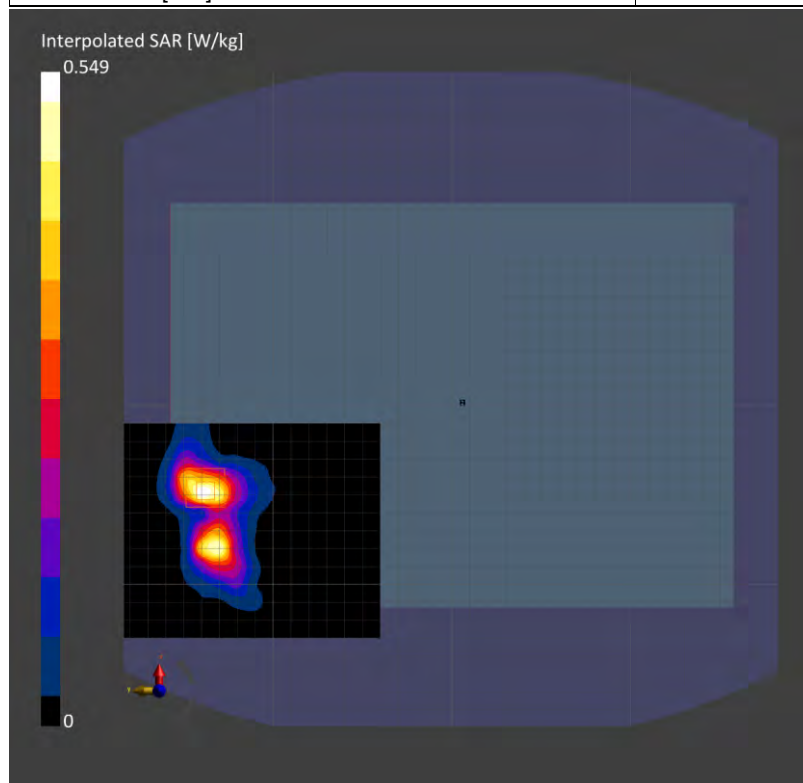
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02	2022-08-02
psSAR1g [W/kg]	0.391	0.430
psSAR10g [W/kg]	0.161	0.176
Power Drift [dB]	0.01	0.02
M2/M1 [%]		72.7
Dist 3dB Peak [mm]		7.9



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n77&n78 (100MHz)_Body_Bottom Surface_CH 633333_BPSK_1-1_0mm_Ant 5

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.55	2.959	38.644

Hardware Setup

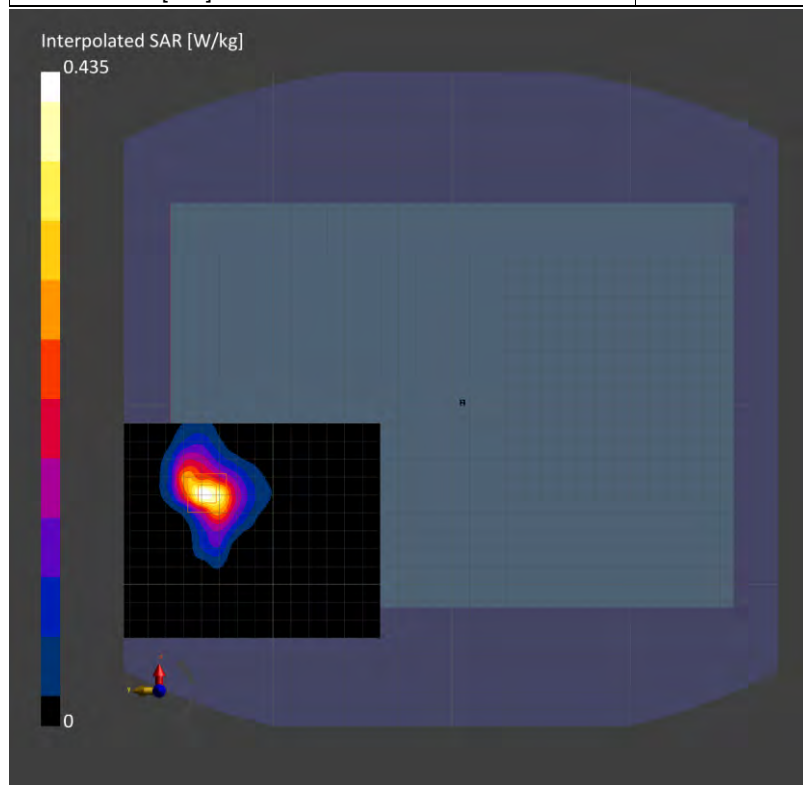
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02	2022-08-02
psSAR1g [W/kg]	0.311	0.336
psSAR10g [W/kg]	0.131	0.146
Power Drift [dB]	-0.03	0.02
M2/M1 [%]		73.0
Dist 3dB Peak [mm]		8.2



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, n78 (100MHz)_Body_Bottom Surface_CH 650000_BPSK_135-0_0mm_Ant 5

Ambient temperature: 22.4°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.25	3.24	38.643

Hardware Setup

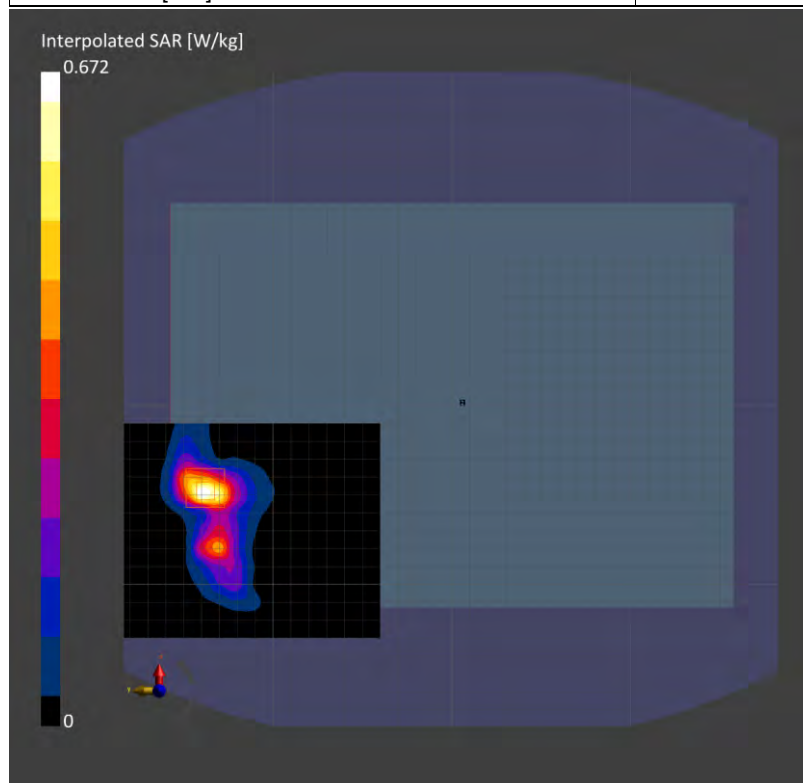
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 160.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-02	2022-08-02
psSAR1g [W/kg]	0.474	0.517
psSAR10g [W/kg]	0.191	0.210
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		70.5
Dist 3dB Peak [mm]		8.2



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 2 (20MHz)_Body_Bottom Surface_CH 18900_QPSK_100-0_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1880.0, 18900	8.54	1.463	41.06

Hardware Setup

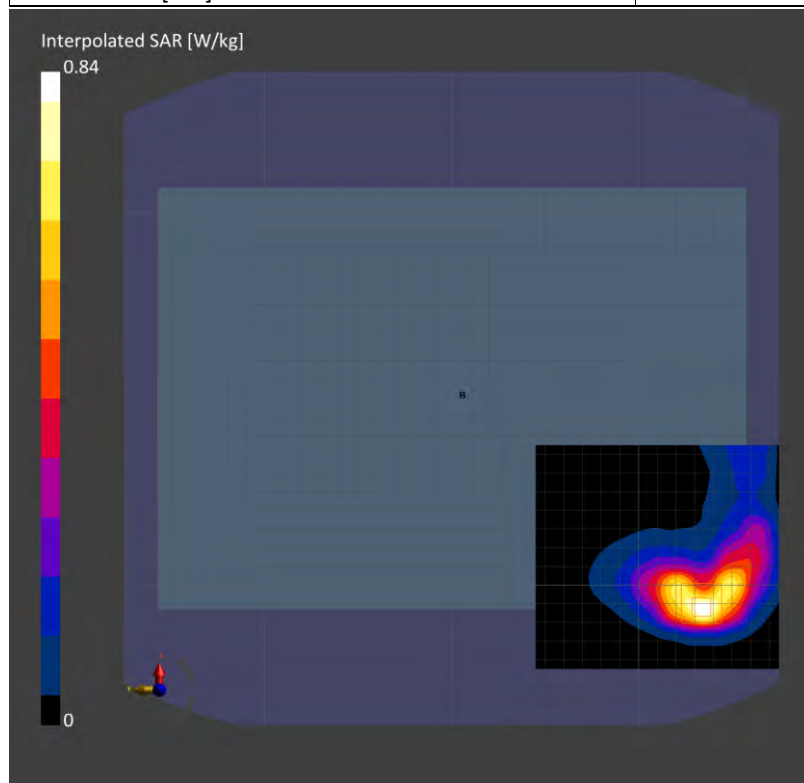
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.652	0.807
psSAR10g [W/kg]	0.360	0.408
Power Drift [dB]	0.04	0.02
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		9.3



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 4 (20MHz)_Body_Bottom Surface_CH 20300_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1745.0, 20300	9.03	1.423	41.147

Hardware Setup

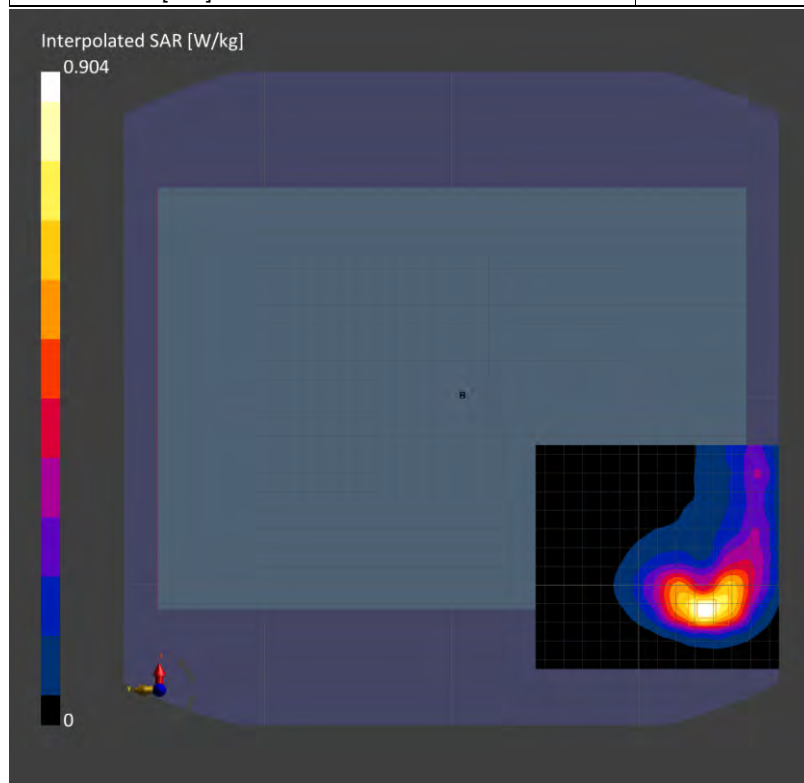
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.699	0.867
psSAR10g [W/kg]	0.380	0.454
Power Drift [dB]	0.05	0.05
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		9.7



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 7 (20MHz)_Body_Bottom Surface_CH 20850_QPSK_1-0_0mm_Ant 8

Ambient temperature: 22.6°C; Liquid temperature: 22°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2510.0, 20850	7.91	1.942	40.184

Hardware Setup

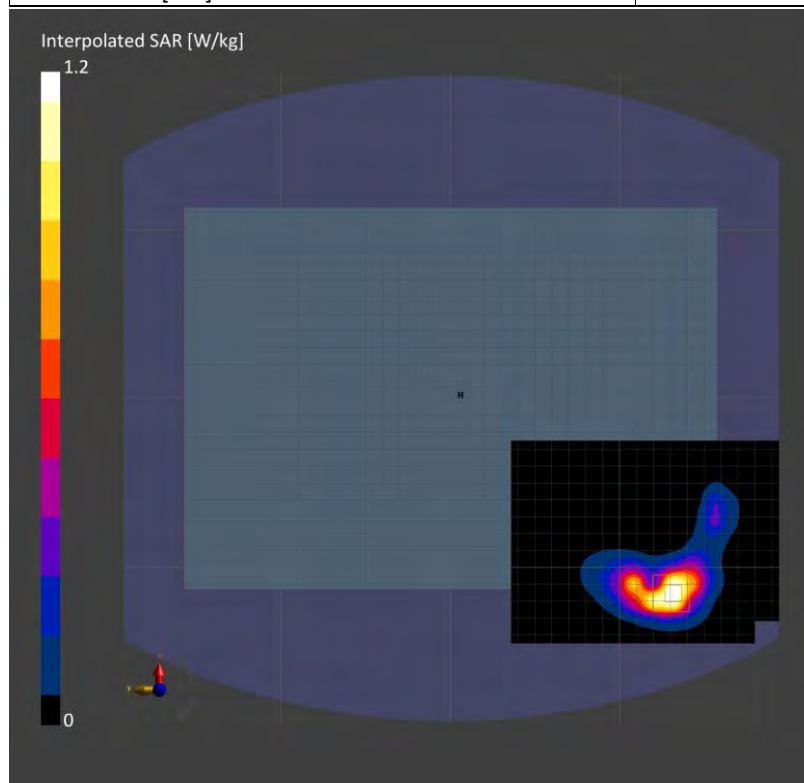
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-01	2022-08-01
psSAR1g [W/kg]	0.958	1.16
psSAR10g [W/kg]	0.458	0.505
Power Drift [dB]	0.02	-0.05
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		6.4



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ID: 069

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 25 (20MHz)_Body_Bottom Surface_CH 26365_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1882.5, 26365	8.54	1.463	41.06

Hardware Setup

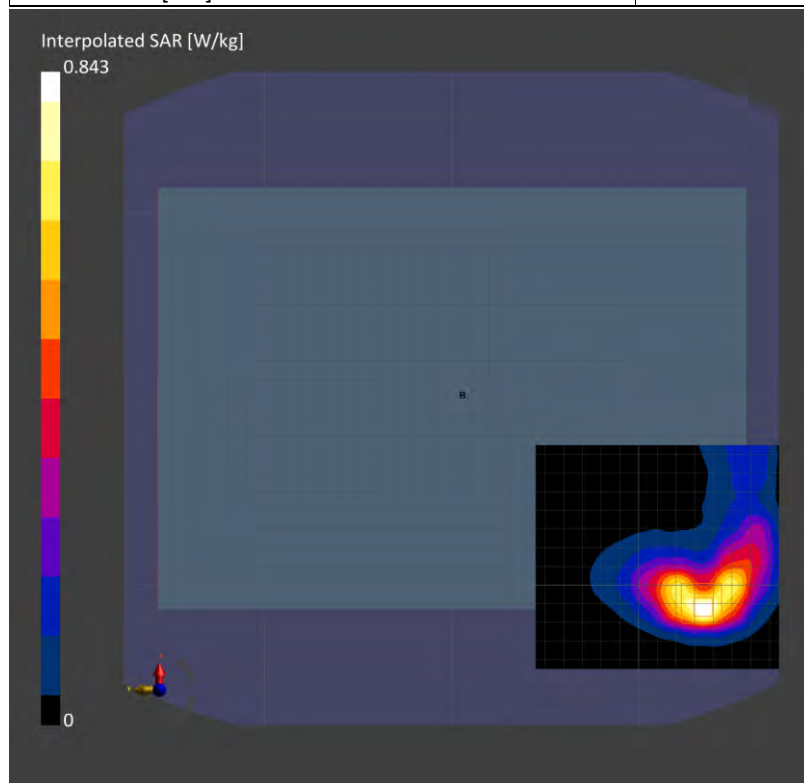
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.653	0.823
psSAR10g [W/kg]	0.361	0.417
Power Drift [dB]	0.03	0.02
M2/M1 [%]		59.9
Dist 3dB Peak [mm]		9.3



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ID: 070

Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 30 (10MHz)_Body_Bottom Surface_CH 27710_QPSK_1-0_0mm_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2310.0, 27710	8.46	1.748	40.164

Hardware Setup

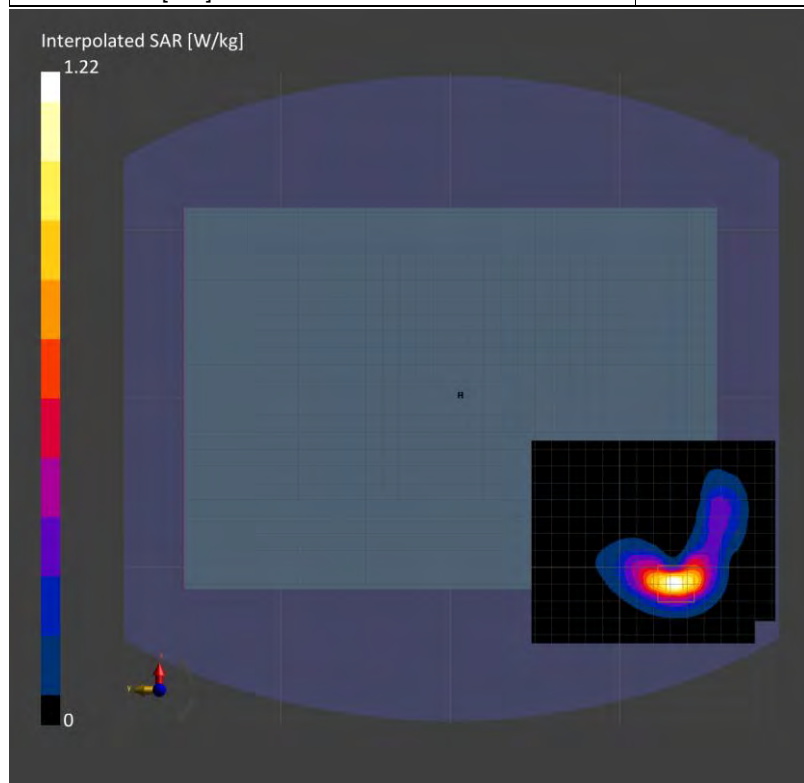
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-31	2022-07-31
psSAR1g [W/kg]	0.880	0.946
psSAR10g [W/kg]	0.403	0.431
Power Drift [dB]	0.02	0.04
M2/M1 [%]		56.1
Dist 3dB Peak [mm]		7.1



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 66 (20MHz)_Body_Bottom Surface_CH 132322_QPSK_100-0_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1745.0, 132322	9.03	1.423	41.147

Hardware Setup

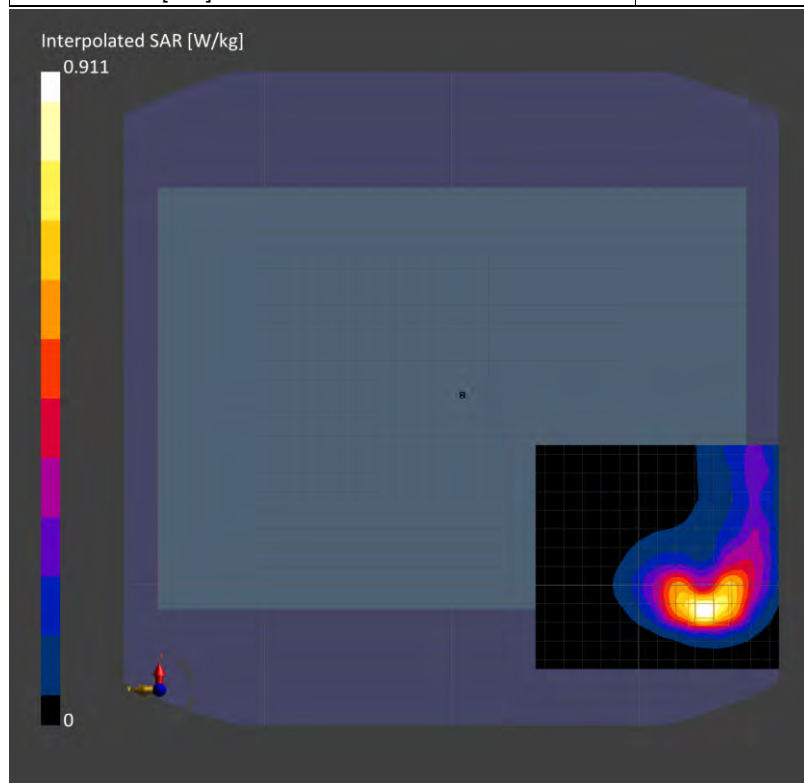
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.701	0.850
psSAR10g [W/kg]	0.379	0.446
Power Drift [dB]	0.04	0.05
M2/M1 [%]		63.1
Dist 3dB Peak [mm]		9.7



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 41 (20MHz)_Body_Bottom Surface_CH 39750_QPSK_50-50_0mm_Ant 8

Ambient temperature: 22.6°C; Liquid temperature: 22°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2506.0, 39750	7.91	1.938	40.189

Hardware Setup

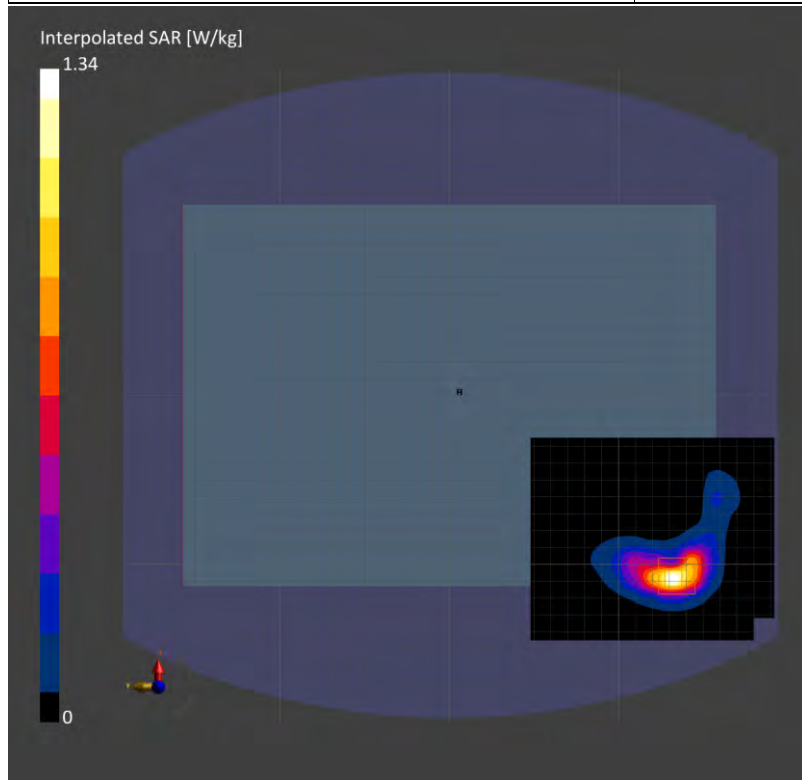
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-01	2022-08-01
psSAR1g [W/kg]	0.956	1.04
psSAR10g [W/kg]	0.431	0.447
Power Drift [dB]	0.06	-0.04
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		6.4



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Report No. : TESA2206000152E5

Measurement Report for HP R2022, LTE Band 48 (20MHz)_Body_Bottom Surface_CH 55830_QPSK_50-0_0mm_Ant 8

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3609.0, 55830	7.25	3.098	38.864

Hardware Setup

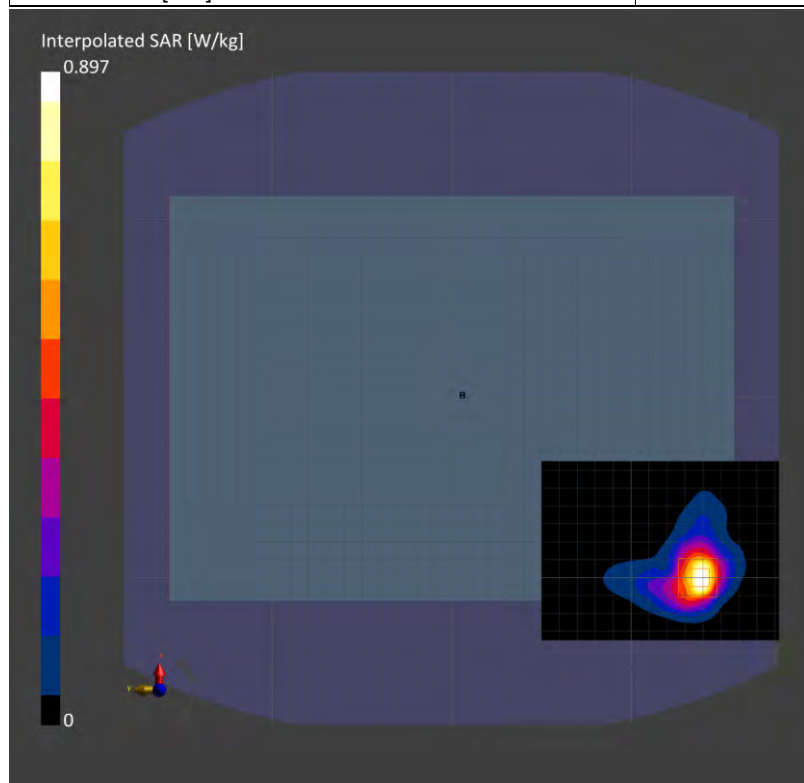
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03	2022-08-03
psSAR1g [W/kg]	0.657	0.696
psSAR10g [W/kg]	0.271	0.291
Power Drift [dB]	0.02	0.06
M2/M1 [%]		71.1
Dist 3dB Peak [mm]		8.2



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Report No. :TESA2206000152E5

Measurement Report for HP R2022, n2 (20MHz)_Body_Bottom Surface_CH 376000_BPSK_50-56_0mm_Ant 8

Ambient temperature: 23°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1880.0, 376000	8.54	1.463	41.06

Hardware Setup

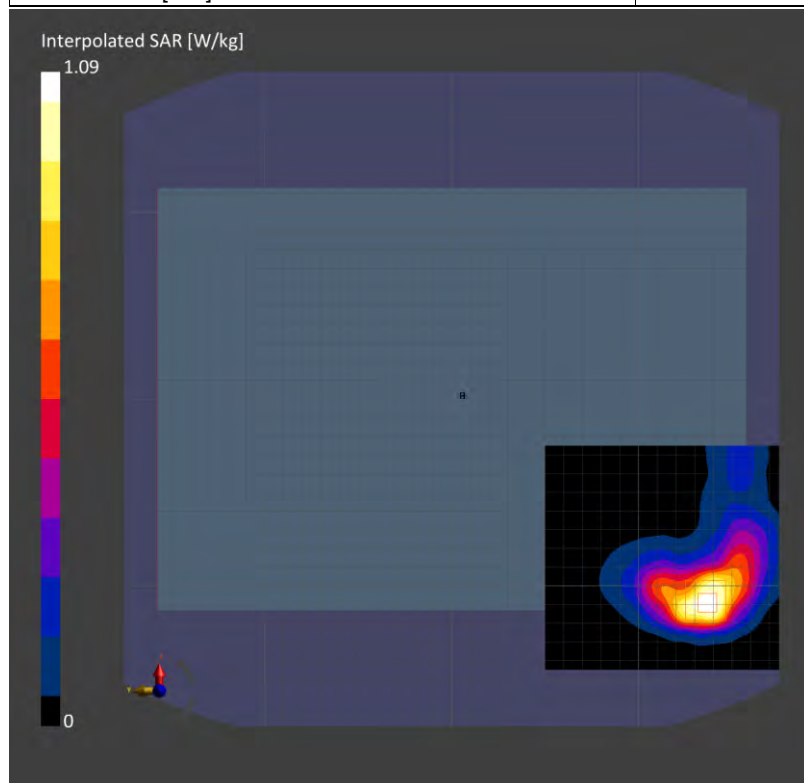
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.914	1.14
psSAR10g [W/kg]	0.512	0.569
Power Drift [dB]	-0.01	-0.06
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		9.3



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Report No. :TESA2206000152E5

Measurement Report for HP R2022, n66 (20MHz)_Body_Bottom Surface_CH 349000_BPSK_1-1_0mm_Ant 8

Ambient temperature: 23°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1745.0, 349000	9.03	1.423	41.147

Hardware Setup

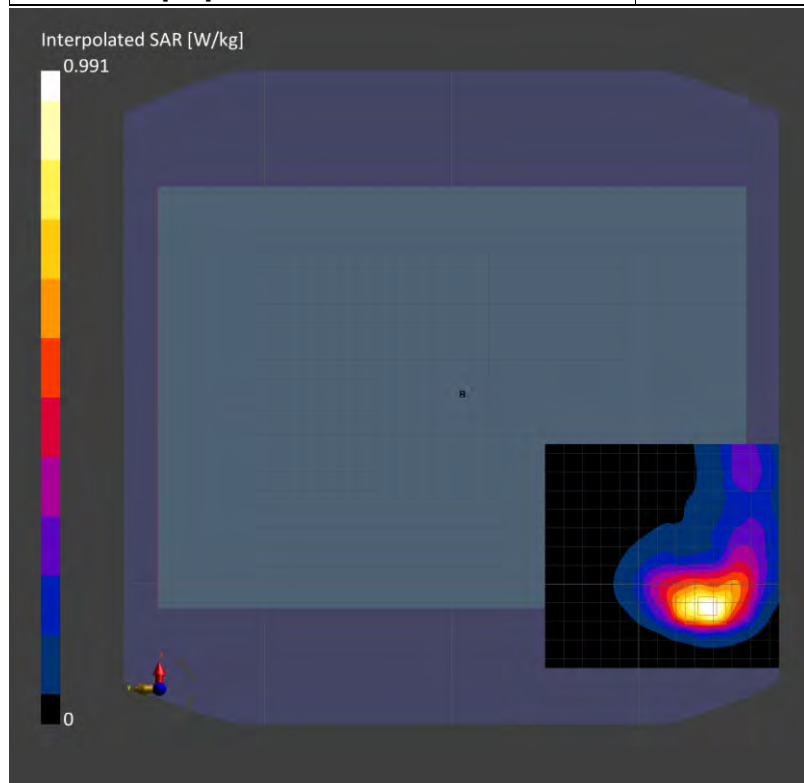
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-07-30	2022-07-30
psSAR1g [W/kg]	0.793	0.921
psSAR10g [W/kg]	0.435	0.482
Power Drift [dB]	0.05	0.02
M2/M1 [%]		60.1
Dist 3dB Peak [mm]		9.6



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Report No. :TESA2206000152E5

Measurement Report for HP R2022, n41 (100MHz)_Body_Bottom Surface_CH 528000_BPSK_135-69_0mm_Ant 8

Ambient temperature: 22.6°C; Liquid temperature: 22°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2640.0, 528000	7.91	2.063	40.018

Hardware Setup

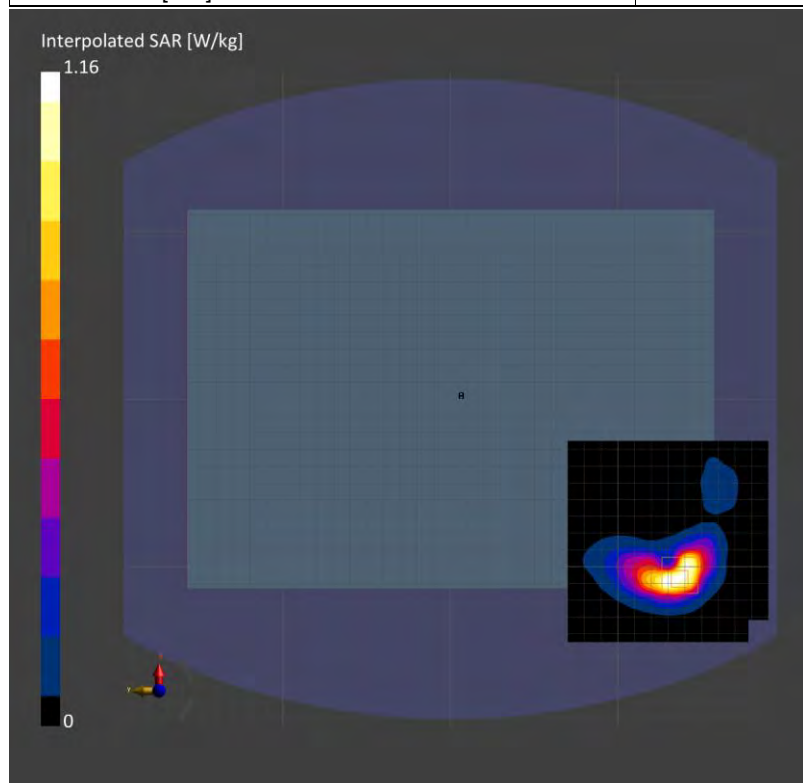
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-02-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-01	2022-08-01
psSAR1g [W/kg]	0.867	1.03
psSAR10g [W/kg]	0.414	0.442
Power Drift [dB]	0.04	0.05
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		9.5



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ID: 077

Report No. :TESA2206000152E5

Measurement Report for HP R2022, n77 (100MHz)_Body_Bottom Surface_CH 653000_BPSK_135-138_0mm_Ant 8

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3795.0, 653000	7.25	3.29	38.588

Hardware Setup

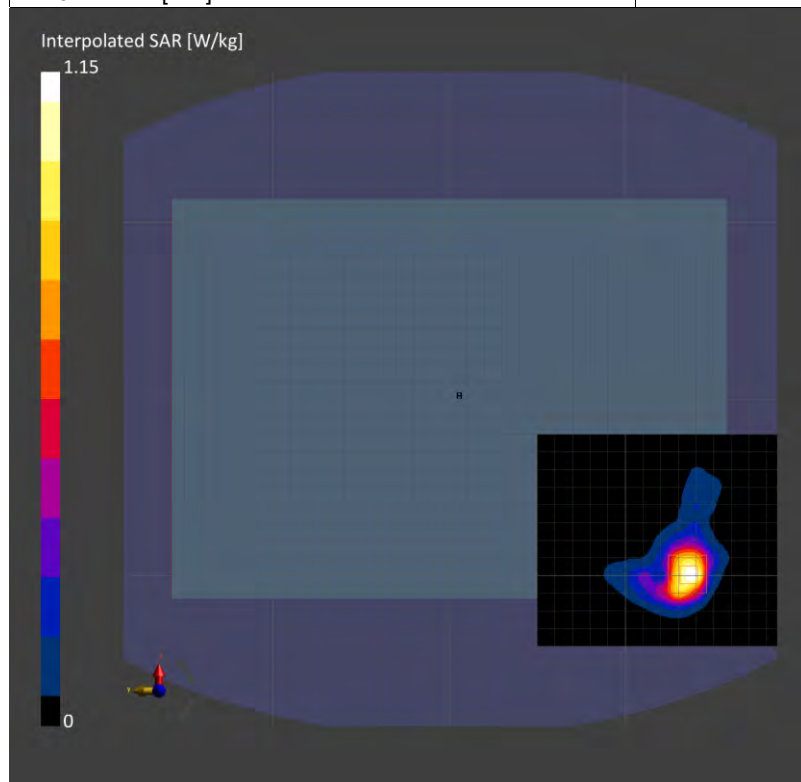
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03	2022-08-03
psSAR1g [W/kg]	0.834	0.908
psSAR10g [W/kg]	0.343	0.363
Power Drift [dB]	0.02	0.04
M2/M1 [%]		68.7
Dist 3dB Peak [mm]		8.0



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ID: 078

Report No. :TESA2206000152E5

Measurement Report for HP R2022, n77&78 (100MHz)_Body_Bottom Surface_CH 633333_BPSK_270-0_0mm_Ant 8

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.55	2.983	38.99

Hardware Setup

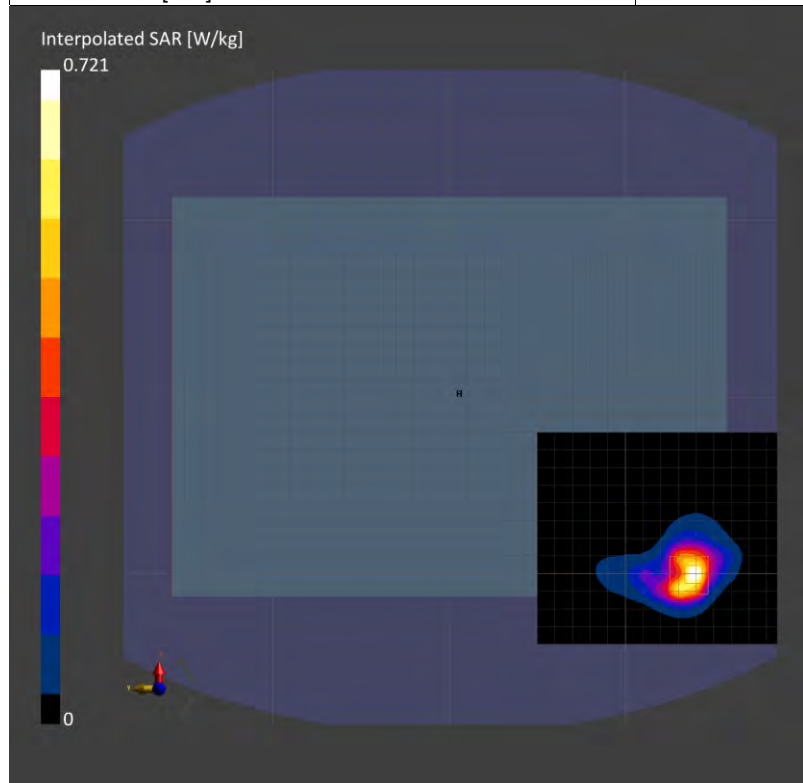
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03	2022-08-03
psSAR1g [W/kg]	0.497	0.553
psSAR10g [W/kg]	0.214	0.230
Power Drift [dB]	0.03	0.03
M2/M1 [%]		70.8
Dist 3dB Peak [mm]		7.9



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ID: 079

Report No. :TESA2206000152E5

Measurement Report for HP R2022, n78 (100MHz)_Body_Bottom Surface_CH 650000_BPSK_270-0_0mm_Ant 8

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.25	3.245	38.703

Hardware Setup

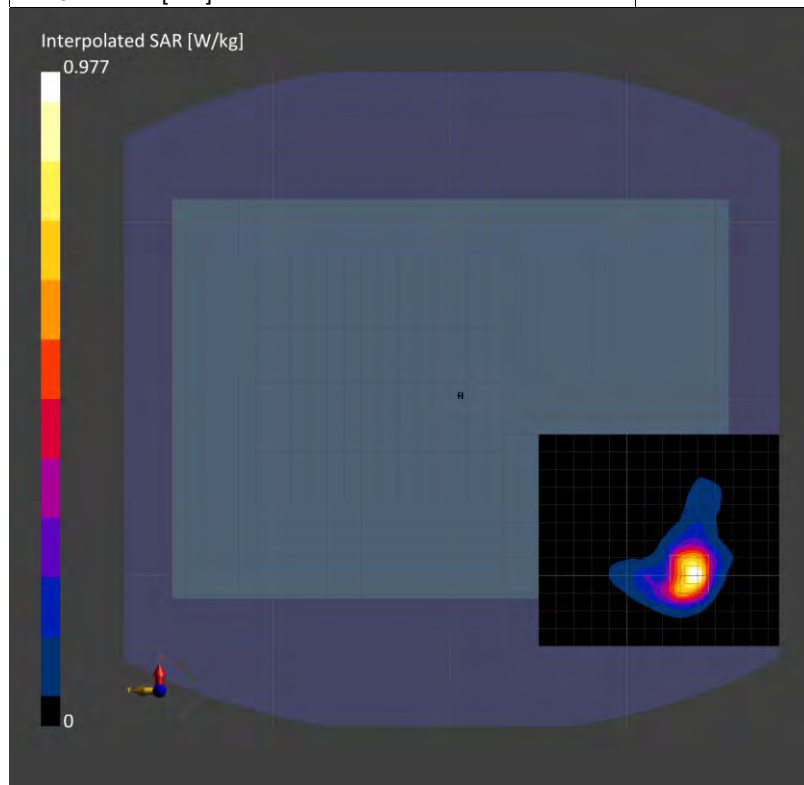
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-08-03	2022-08-03
psSAR1g [W/kg]	0.682	0.740
psSAR10g [W/kg]	0.280	0.296
Power Drift [dB]	0.01	0.03
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		8.0



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ID: 001

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11b_Bottom Surface_CH 11_0mm_Ant 2

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2462.0, 11	8.16	1.882	39.9

Hardware Setup

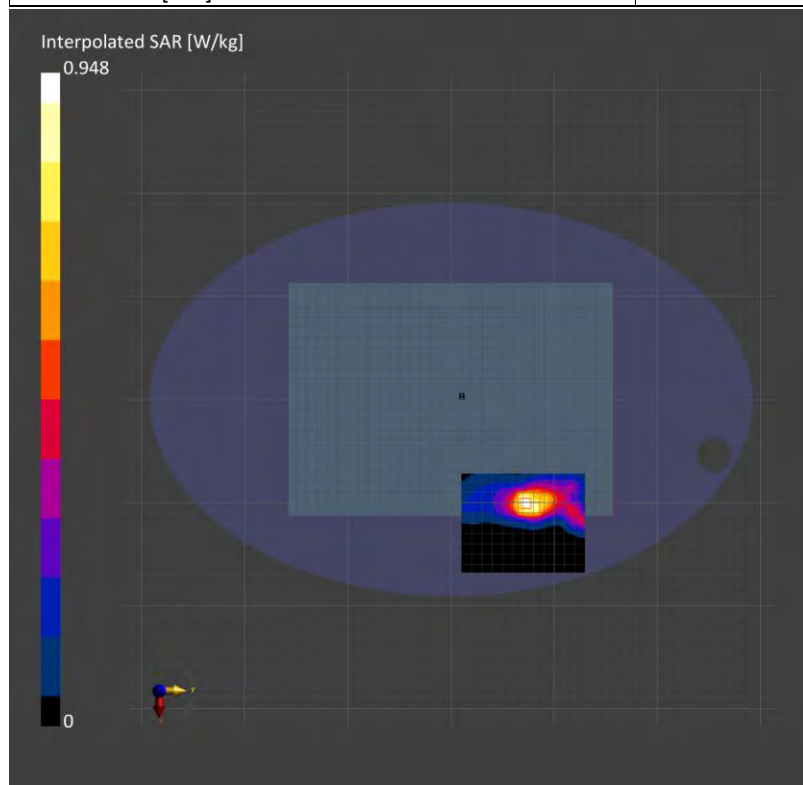
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-26	2022-06-26
psSAR1g [W/kg]	0.401	0.418
psSAR10g [W/kg]	0.209	0.197
Power Drift [dB]	0.05	0.05
M2/M1 [%]		59.8
Dist 3dB Peak [mm]		10.4



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ID: 002

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.2G_Bottom Surface_CH 46_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.805	36.666

Hardware Setup

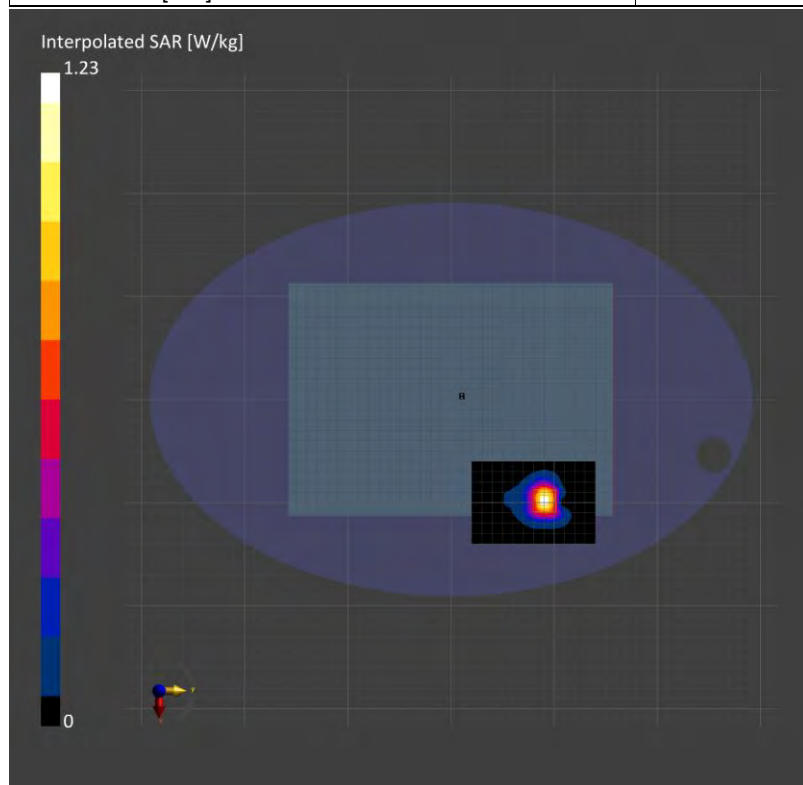
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.865	0.955
psSAR10g [W/kg]	0.325	0.359
Power Drift [dB]	0.01	0.04
M2/M1 [%]		56.3
Dist 3dB Peak [mm]		9.6



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ID: 003

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.2G_Bottom Surface_CH 42_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5210.0, 42	5.94	4.784	36.689

Hardware Setup

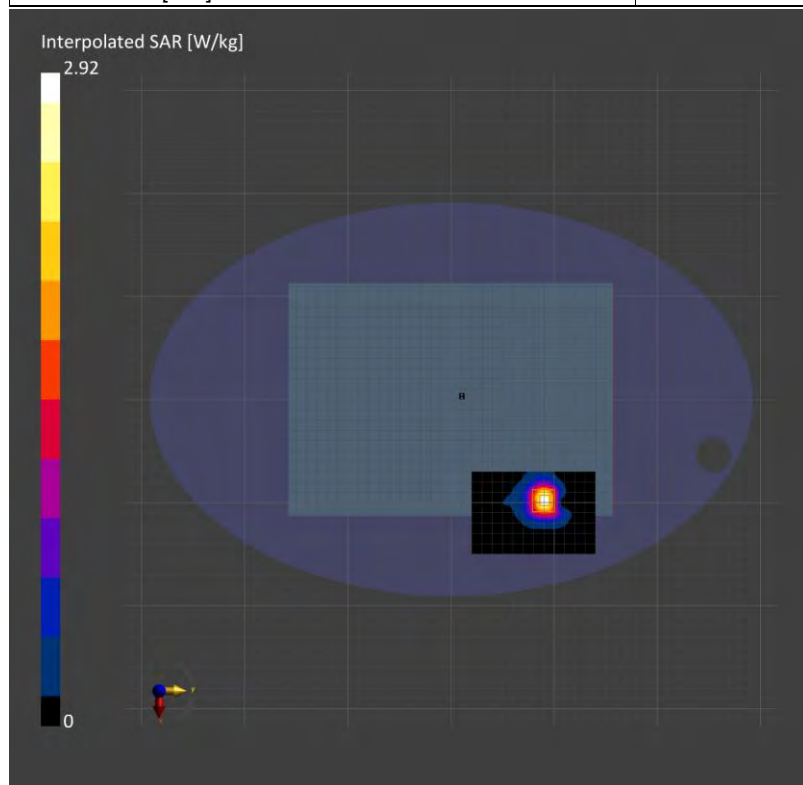
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.852	0.917
psSAR10g [W/kg]	0.321	0.346
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		57.5
Dist 3dB Peak [mm]		10.4



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.3G_Bottom Surface_CH 62_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5310.0, 62	5.94	4.866	36.55

Hardware Setup

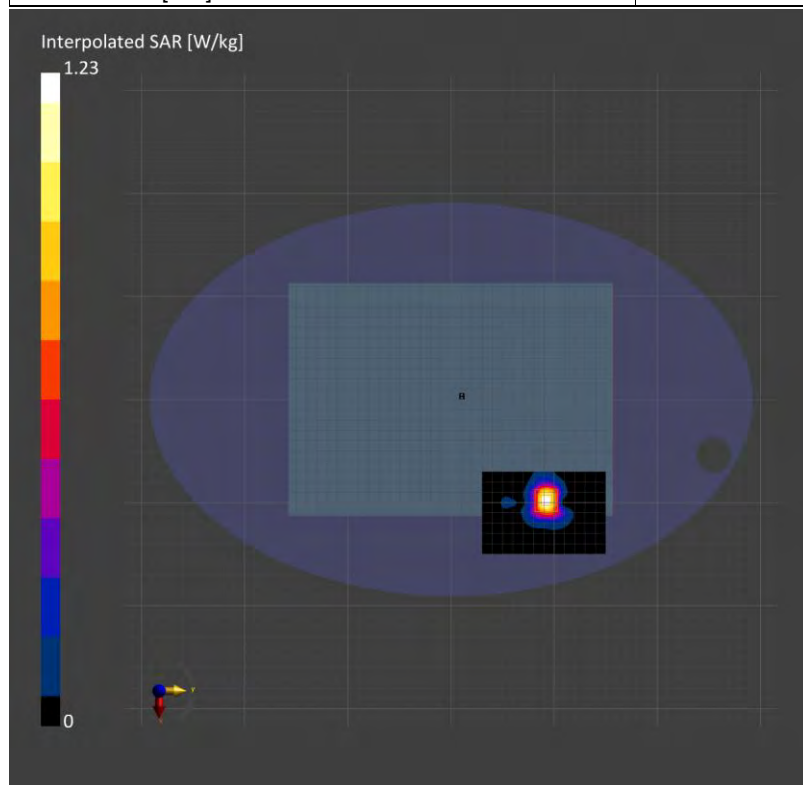
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.888	0.959
psSAR10g [W/kg]	0.332	0.352
Power Drift [dB]	-0.01	-0.03
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		9.4



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.3G_Bottom Surface_CH 58_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5290.0, 58	5.94	4.868	36.598

Hardware Setup

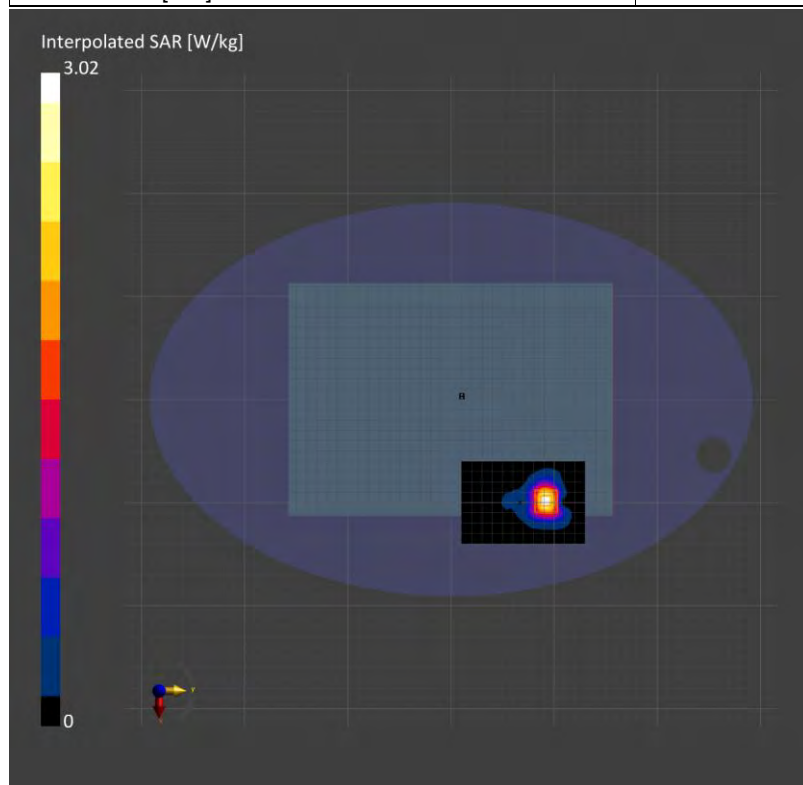
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.837	0.940
psSAR10g [W/kg]	0.313	0.345
Power Drift [dB]	0.02	0.05
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		8.9



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.6G_Bottom Surface_CH 134_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5670.0, 134	5.29	5.267	35.864

Hardware Setup

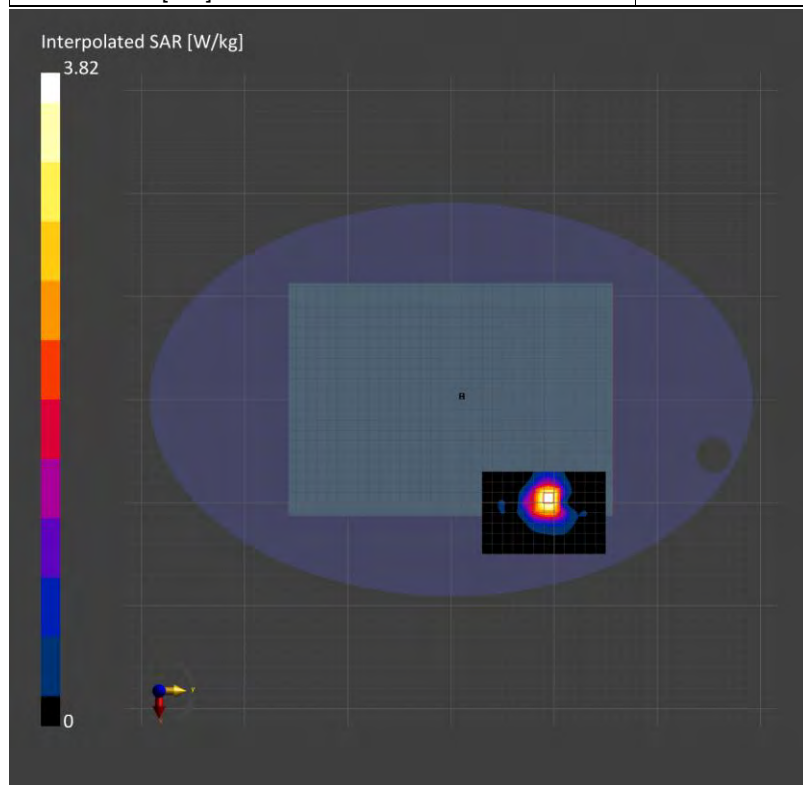
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	1.05	1.14
psSAR10g [W/kg]	0.419	0.430
Power Drift [dB]	-0.01	0.04
M2/M1 [%]		54.8
Dist 3dB Peak [mm]		8.8



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ID: 007

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.6G_Bottom Surface_CH 106_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5530.0, 106	5.29	5.121	36.324

Hardware Setup

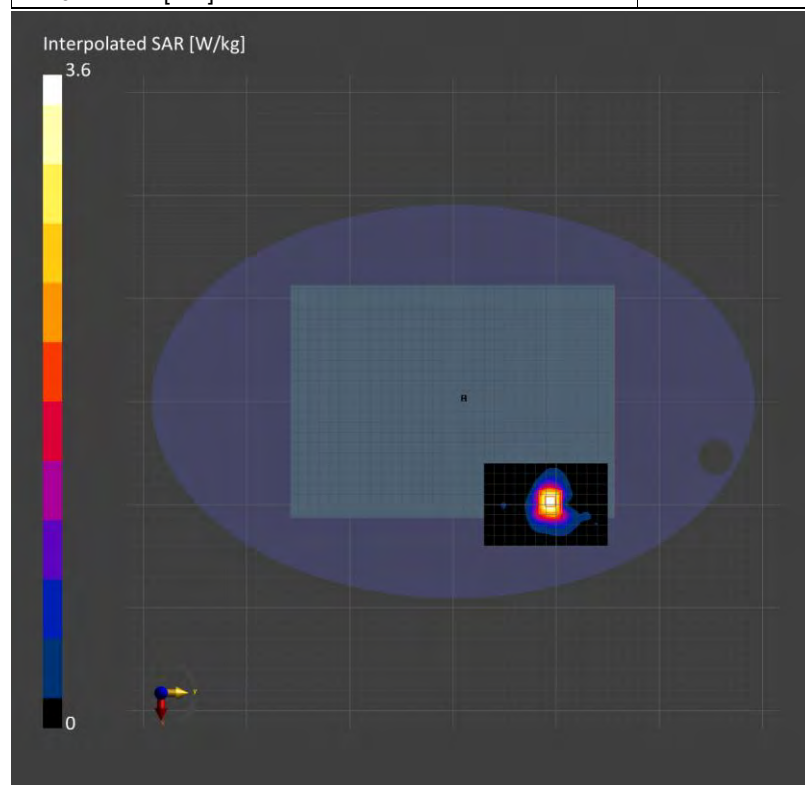
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.966	1.09
psSAR10g [W/kg]	0.373	0.400
Power Drift [dB]	-0.06	0.04
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		9.1



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.8G_Bottom Surface_CH 151_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5755.0, 151	5.45	5.356	36.066

Hardware Setup

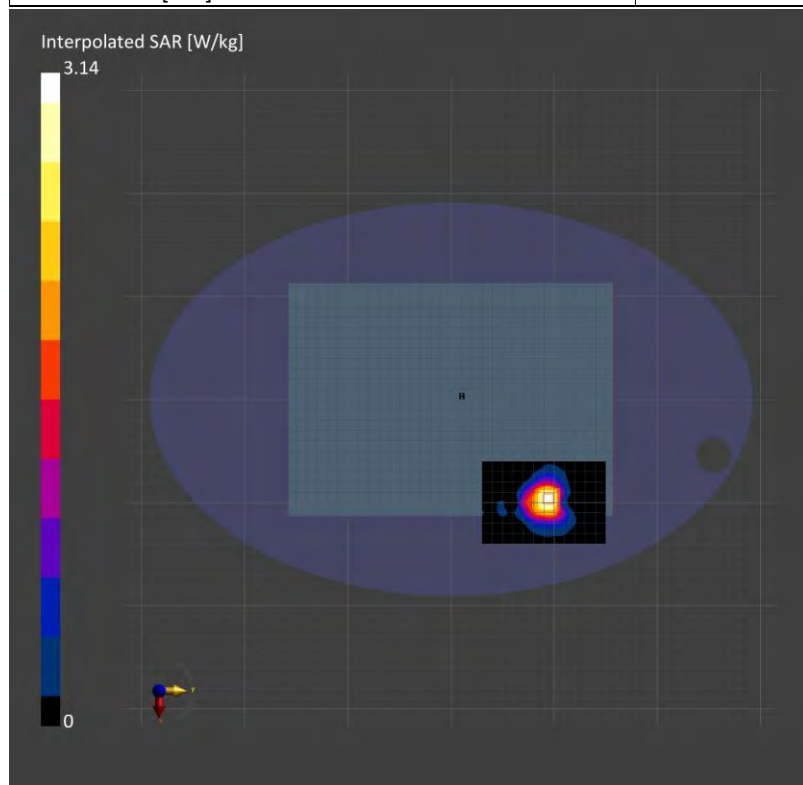
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.837	0.913
psSAR10g [W/kg]	0.340	0.347
Power Drift [dB]	-0.03	-0.01
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		10.4



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.8G_Bottom Surface_CH 155_0mm_Ant 2

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5775.0, 155	5.45	5.377	36.044

Hardware Setup

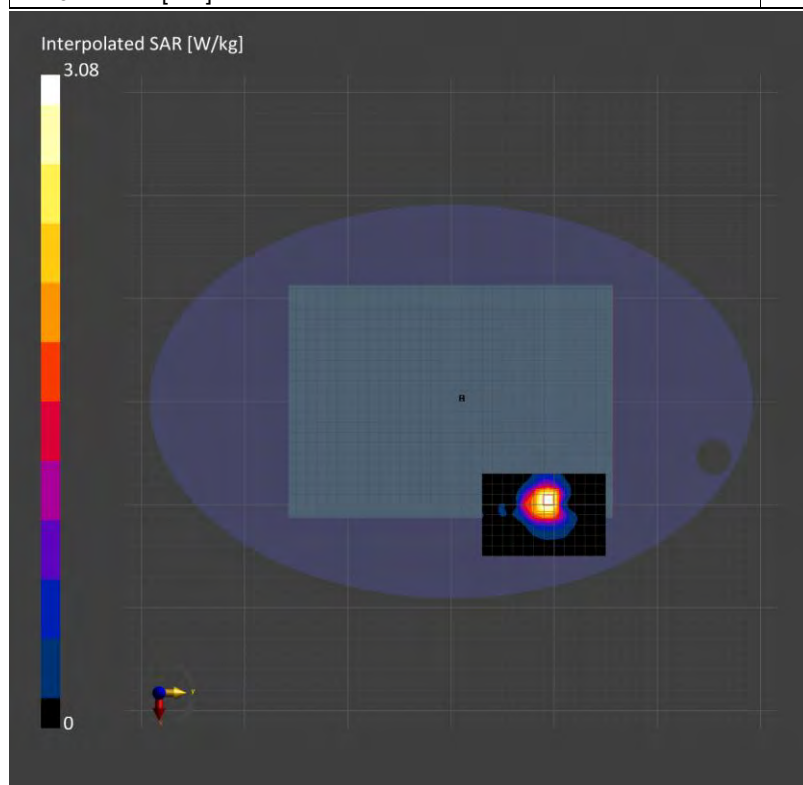
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.836	0.891
psSAR10g [W/kg]	0.341	0.342
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		9.9



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ID: 010

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11b_Bottom Surface_CH 11_0mm_Ant 1

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2462.0, 11	8.16	1.882	39.9

Hardware Setup

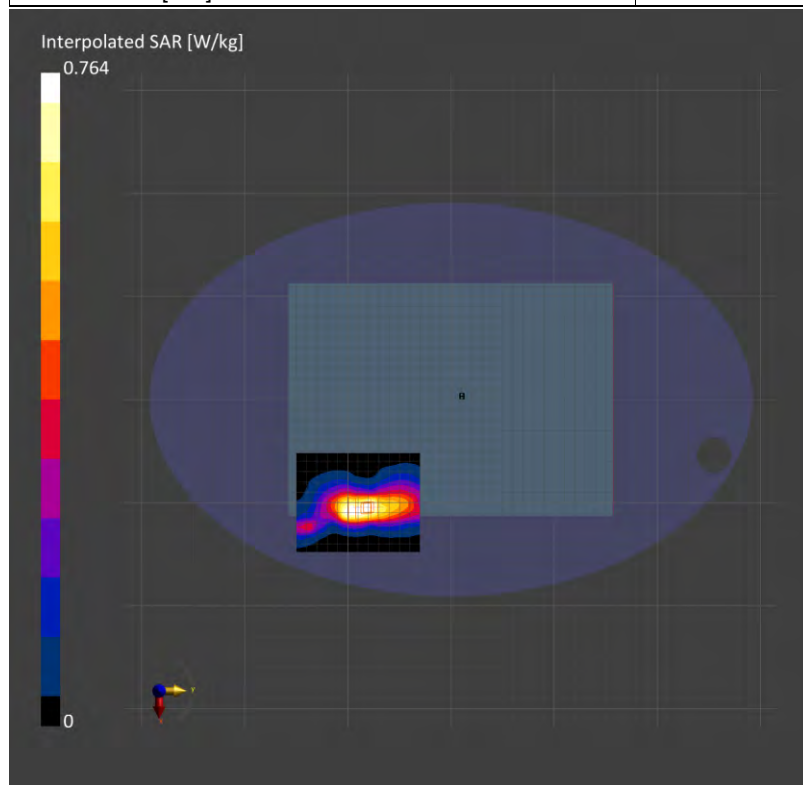
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-26	2022-06-26
psSAR1g [W/kg]	0.275	0.328
psSAR10g [W/kg]	0.151	0.153
Power Drift [dB]	0.06	0.04
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		9.0



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, Bluetooth(GFSK)_Bottom Surface_CH 78_0mm_Ant 1

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2480.0, 78	8.16	1.898	39.877

Hardware Setup

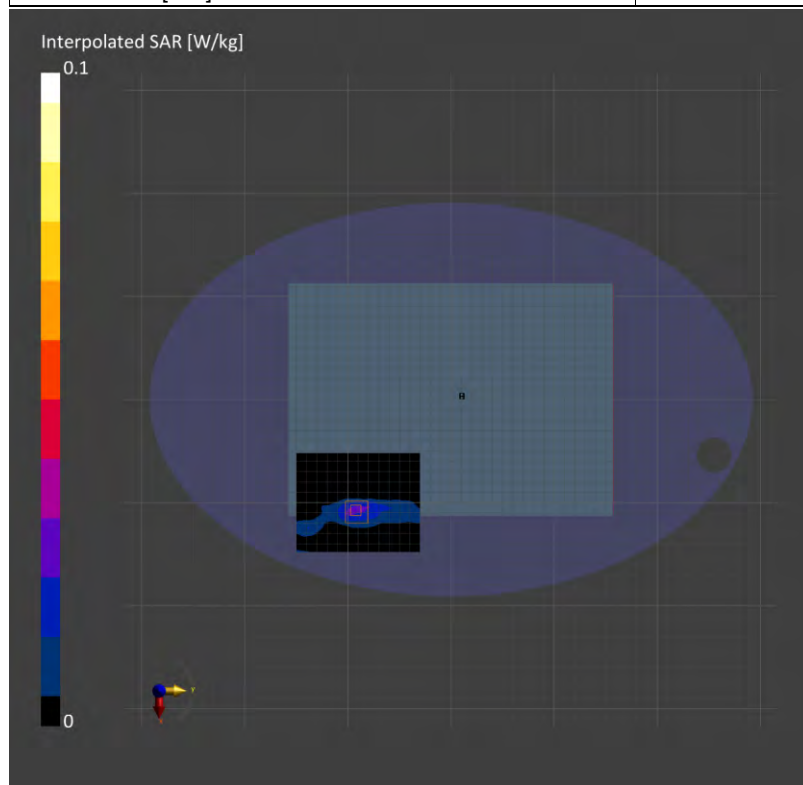
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-26	2022-06-26
psSAR1g [W/kg]	0.022	0.018
psSAR10g [W/kg]	0.011	0.009
Power Drift [dB]	0.03	0.04
M2/M1 [%]		62.0
Dist 3dB Peak [mm]		9.5



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.2G_Bottom Surface_CH 46_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5230.0, 46	5.94	4.805	36.666

Hardware Setup

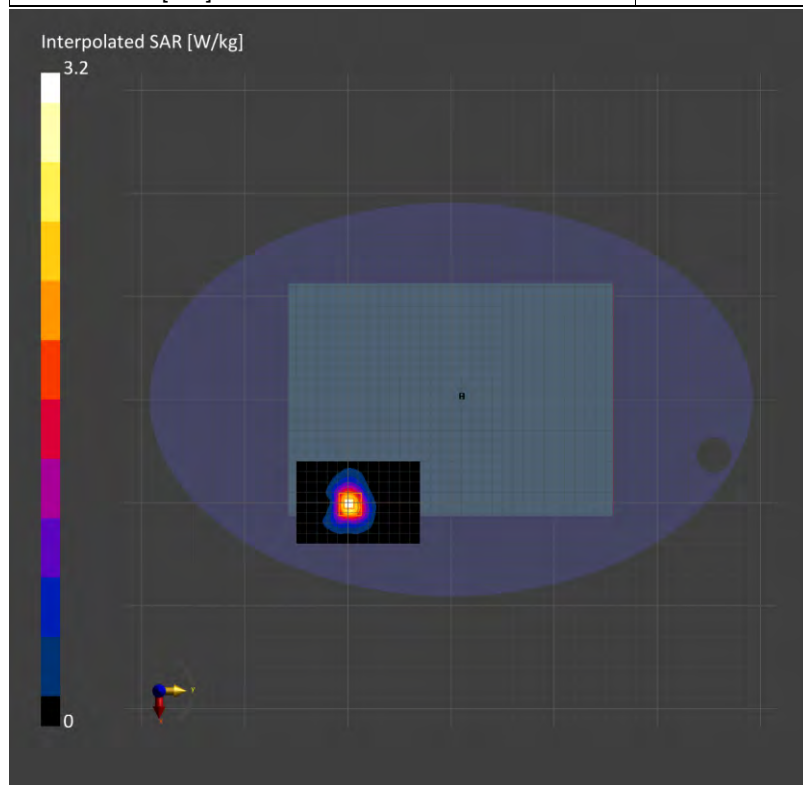
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.960	1.03
psSAR10g [W/kg]	0.361	0.395
Power Drift [dB]	0.05	-0.01
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		9.7



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.2G_Bottom Surface_CH 42_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5210.0, 42	5.94	4.784	36.689

Hardware Setup

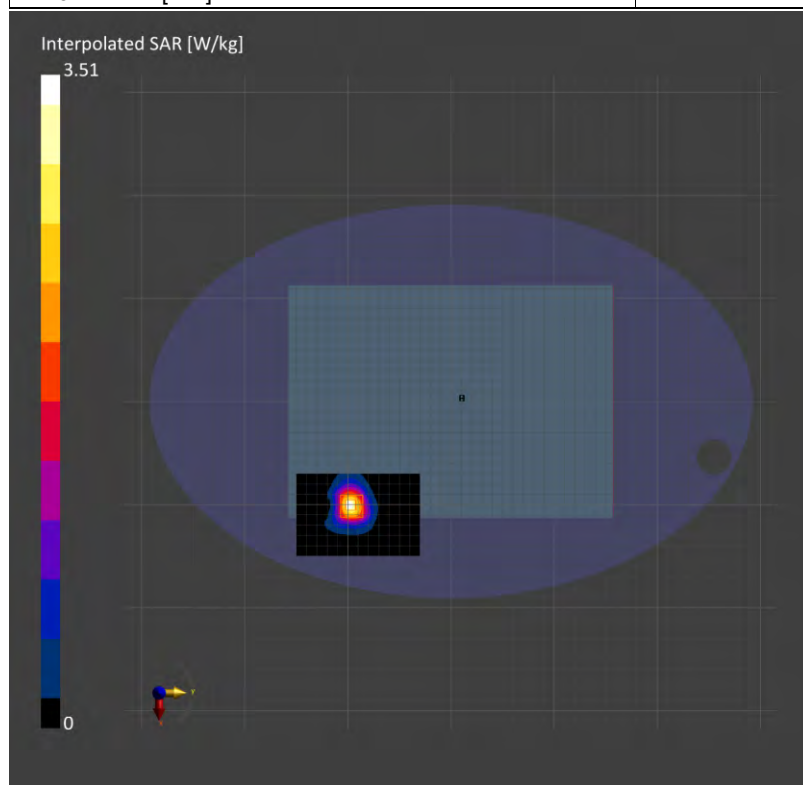
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	1.10	1.13
psSAR10g [W/kg]	0.416	0.435
Power Drift [dB]	-0.02	0.03
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		9.7



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Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11n(40M) 5.3G_Bottom Surface_CH 54_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5270.0, 54	5.94	4.847	36.621

Hardware Setup

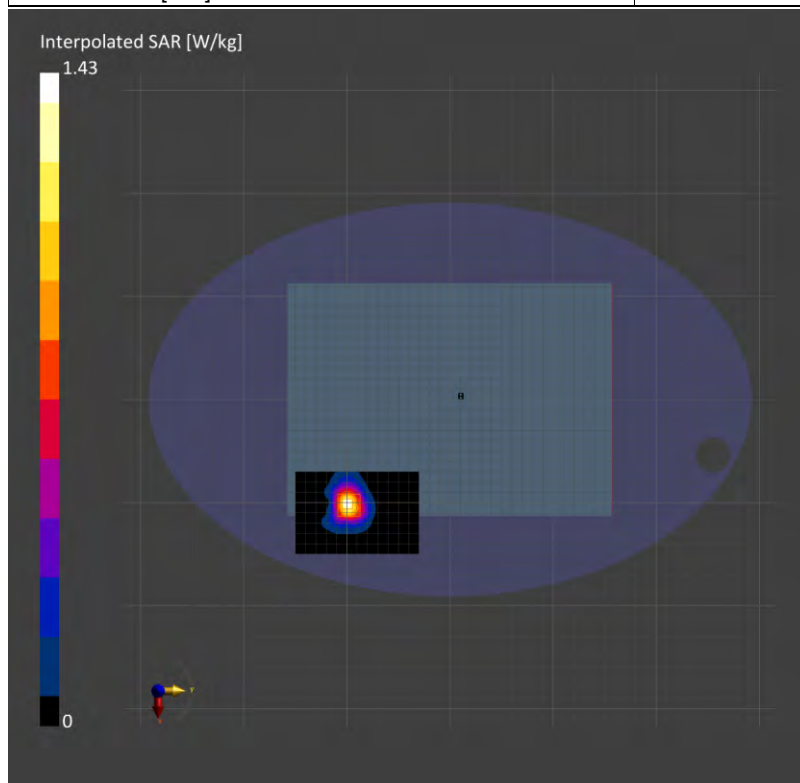
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.997	1.04
psSAR10g [W/kg]	0.374	0.395
Power Drift [dB]	-0.06	0.02
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		8.9



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ID: 015

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.3G_Bottom Surface_CH 58_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5290.0, 58	5.94	4.868	36.598

Hardware Setup

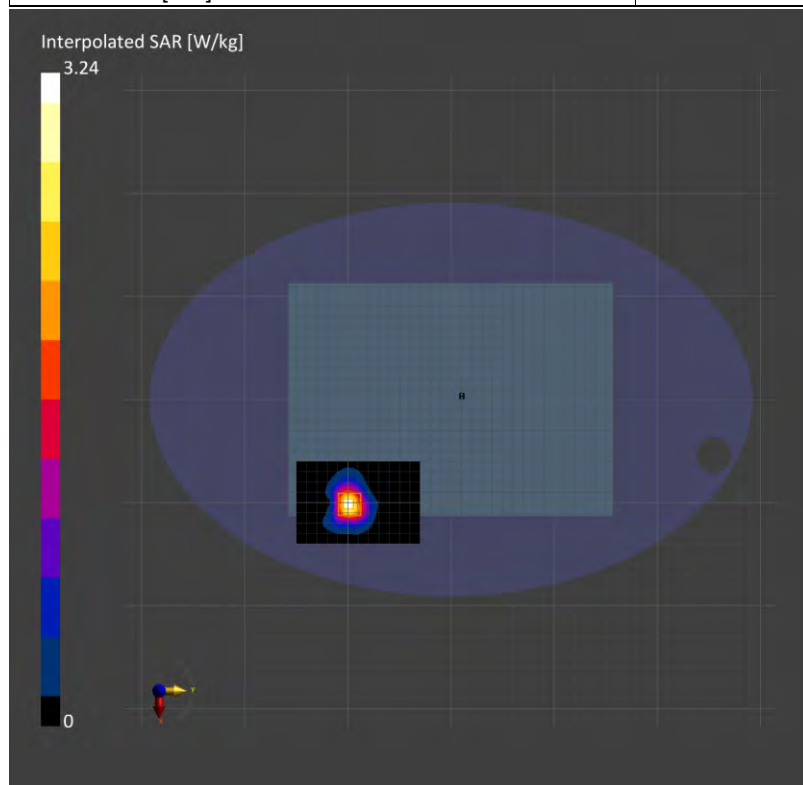
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.980	1.03
psSAR10g [W/kg]	0.370	0.396
Power Drift [dB]	-0.05	0.06
M2/M1 [%]		56.9
Dist 3dB Peak [mm]		10.4



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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ID: 016

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.6G_Bottom Surface_CH 106_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5530.0, 106	5.29	5.121	36.324

Hardware Setup

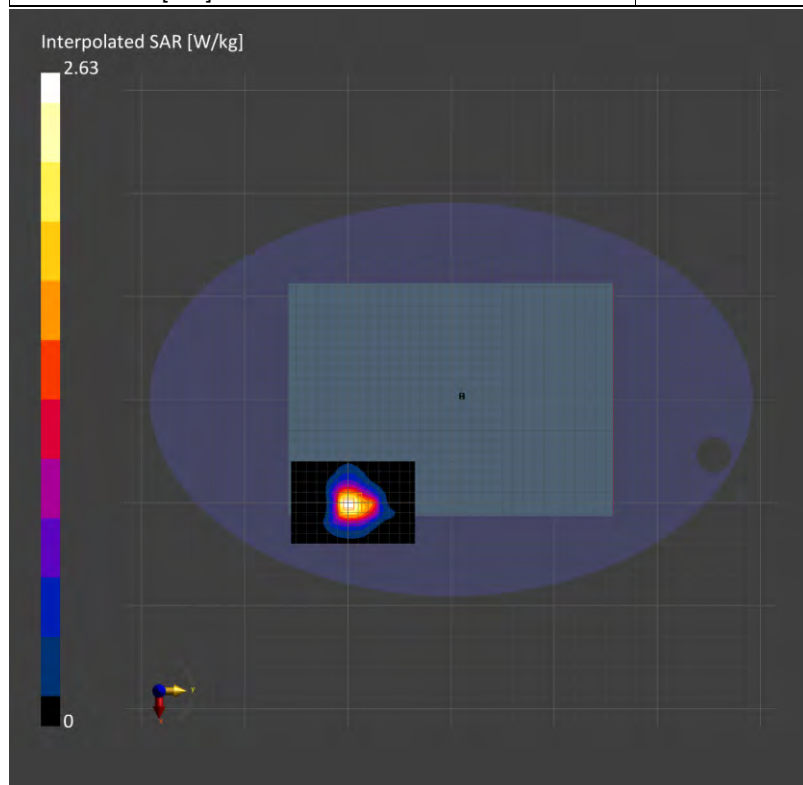
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.743	0.797
psSAR10g [W/kg]	0.299	0.311
Power Drift [dB]	-0.04	0.01
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		10.1



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ID: 017

Report No. : TESA2206000151E5

Measurement Report for HP R2022, WLAN 802.11ac(80M) 5.8G_Bottom Surface_CH 155_0mm_Ant 1

Ambient temperature: 22.2°C; Liquid temperature: 21.6°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	5775.0, 155	5.45	5.377	36.044

Hardware Setup

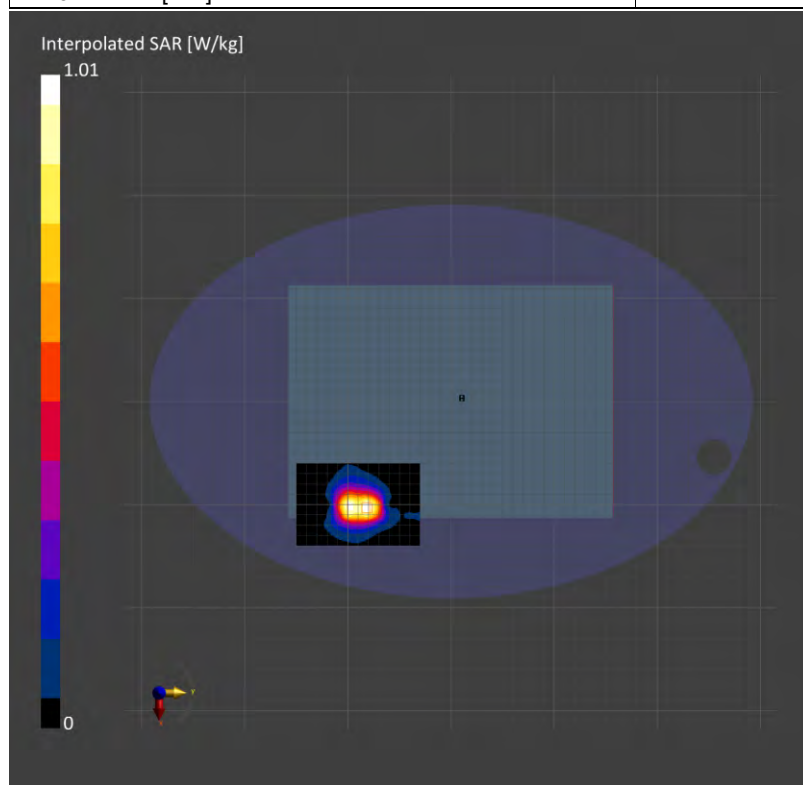
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7712, 2022-03-21	DAE4 Sn1719, 2022-03-25

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-06-27	2022-06-27
psSAR1g [W/kg]	0.752	0.778
psSAR10g [W/kg]	0.317	0.326
Power Drift [dB]	-0.02	0.04
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		11.8



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