

APPENDIX D: ANTENNA GROUPING ANALYSIS & JUSTIFICATION

D.1 Sub6 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG) and mmW module groups (MG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

a) Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs.

(or)

b) Every antenna from each sub6 AG meets SPLSR criteria (Section 4.3.2(c) in FCC KDB 447498 D01) with every antenna from another sub6 AG. This criteria must be demonstrated for all antenna combinations for each pair of AGs.

This device supports two sub6 AG: AG0 and AG1, with AG0 having 4 antennas (A, B, C, D) and AG1 having 4 antennas (E, F, J, L), and two WIFI/BT antennas outside of Smart Transmit. The conditions are verified through the following criterias:




i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at P_{limit} (or P_{max} when $P_{limit} > P_{max}$) for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.

1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum reported SAR at P_{limit} (or P_{max} when $P_{limit} > P_{max}$) out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets: { [max.SAR.AG0 + max.SAR.AG1] + WIFI/BT Ant 1 + WIFI/BT Ant 2} \leq 1.6 (for 1g, or 4.0 for 10g).

ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at P_{limit} out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:

- SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1: {antenna (A, B, C, D) in AG0; antenna (E, F, J, L) in AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.

iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to: {max.SAR.AG0 + WIFI/BT Ant 1 + WIFI/BT Ant 2} \leq 1.6 and {max.SAR.AG1 + WIFI/BT Ant 1 + WIFI/BT Ant 2} \leq 1.6 for compliance demonstration (for 1g, or 4.0 for 10g).

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If SPLSR criteria evaluation and analysis is needed to determine compliance for a certain DSI configuration, SPLSR is performed by taking the highest reported SAR for each of the supported technologies and bands per antenna, along with the peak SAR locations. Per Qualcomm guidance, only Y-axis coordinates are recorded in the analysis for calculation simplicity (assumes all 0mm of separation on the x-axis). Peak locations are documented in Section D.7 below for each DSI configuration.

For bottom AG0, Y_max coordinate represents the worst case hotspot location that is closest to the top AG1. Similarly, for top AG1, Y_min coordinate represents the worst case hotspot location that is closest to the bottom AG0.

The following formula is used to calculate the SPLSR between AG0 and AG1 for each exposure configuration:

$$SPLSR = \frac{(Max\ SAR\ AG0 + Max\ SAR\ AG1)^{1.5}}{|Y_{max} - Y_{min}|}$$

Please see the original filing for the standalone reported SAR for modes/bands/exposure conditions/positions that were not evaluated for this permissive change.

D.2 Head (DSI = 2) SAR Antenna Group Analysis

Table D-1
DSI=2 Held-to-ear AG0 Highest Reported SAR

AG0						
Head SAR	Configuration	A	B	C	D	Max
	Right Cheek	0.174	0.037	0.018	0.012	0.174
	Right Tilt	0.117	0.030	0.000	0.011	0.117
	Left Cheek	0.280	0.052	0.004	0.038	0.280
	Left Tilt	0.123	0.042	0.000	0.040	0.123

Table D-2
DSI=2 Held-to-ear AG1 Highest Reported SAR

AG1						
Head SAR	Configuration	E	F	J	L	Max
	Right Cheek	0.371	0.899	0.489	0.452	0.899
	Right Tilt	0.308	0.767	0.595	0.437	0.767
	Left Cheek	0.278	0.306	0.746	0.273	0.746
	Left Tilt	0.217	0.229	0.901	0.458	0.901

Please refer to Appendix D in the original filing for highest reported simultaneous held-to-ear SAR of WLAN/BT antennas.




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Table D-3
DSI=2 Held-to-ear AG Verification

	Configuration	AG0	AG1	WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case SAR (W/Kg)
Head SAR	Right Cheek	0.174	0.899	0.691	See table below
	Right Tilt	0.117	0.767	0.205	1.089
	Left Cheek	0.280	0.746	0.322	1.348
	Left Tilt	0.123	0.901	0.119	1.143

Right Cheek							
Ant Combination	AG0		AG1		WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case	SPLSR
	SAR	Position	SAR	Position			
Ant A-Ant E	0.174	N/A	0.371	N/A	0.691	1.236	N/A
Ant A-Ant F	0.174	-53.650	0.899	-21.100	0.691	See Note 2	0.03
Ant A-Ant J	0.174	N/A	0.489	N/A	0.691	1.354	N/A
Ant A-Ant L	0.174	N/A	0.452	N/A	0.691	1.317	N/A
Ant B-Ant E	0.037	N/A	0.371	N/A	0.691	1.099	N/A
Ant B-Ant F	0.037	1.210	0.899	-21.100	0.691	See Note 2	0.04
Ant B-Ant J	0.037	N/A	0.489	N/A	0.691	1.217	N/A
Ant B-Ant L	0.037	N/A	0.452	N/A	0.691	1.180	N/A
Ant C-Ant E	0.018	N/A	0.371	N/A	0.691	1.080	N/A
Ant C-Ant F	0.018	-63.130	0.899	-21.100	0.691	See Note 2	0.02
Ant C-Ant J	0.018	N/A	0.489	N/A	0.691	1.198	N/A
Ant C-Ant L	0.018	N/A	0.452	N/A	0.691	1.161	N/A
Ant D-Ant E	0.012	N/A	0.371	N/A	0.691	1.074	N/A
Ant D-Ant F	0.012	-0.360	0.899	-21.100	0.691	See Note 2	0.04
Ant D-Ant J	0.012	N/A	0.489	N/A	0.691	1.192	N/A
Ant D-Ant L	0.012	N/A	0.452	N/A	0.691	1.155	N/A



Notes:

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, there's no further analysis required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLSR ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations

D.3 Body-worn (DSI = 0) SAR Antenna Group Analysis

Table D-4
DSI=0 Body-worn AG0 Highest Reported SAR

AG0						
Bodyworn SAR	Configuration	A	B	C	D	Max
		Back	0.782	0.393	0.046	0.107

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**Table D-5
DSI=0 Body-worn AG1 Highest Reported SAR**

AG1						
Bodyworn SAR	Configuration	E	F	J	L	Max
	Back	0.020	0.180	0.168	0.156	0.180

Please refer to Appendix D in the original filing for highest reported simultaneous body worn SAR of WLAN/BT antennas.

**Table D-6
DSI=0 Body-worn AG Verification**

	Configuration	AG0	AG1	WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case
Bodyworn SAR	Back	0.782	0.180	0.335	1.297

Notes:

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, there's no further analysis required for compliance demonstration.

D.4 Hotspot (DSI = 3) SAR Antenna Group Analysis

**Table D-7
DSI=3 Hotspot AG0 Highest Reported SAR**

AG0						
Hotspot SAR	Configuration	A	B	C	D	Max
	Back	1.065	0.495	0.093	0.265	1.065
	Front	0.628	0.371	0.038	0.053	0.628
	Top	0.000	0.000	0.000	0.000	-
	Bottom	1.234	1.104	0.027	0.109	1.234
	Right	0.198	0.302	0.114	0.000	0.302
	Left	0.314	0.000	0.000	0.015	0.314

**Table D-8
DSI=3 Hotspot AG1 Highest Reported SAR**

AG1						
Hotspot SAR	Configuration	E	F	J	L	Max
	Back	0.034	0.220	0.230	0.167	0.230
	Front	0.063	0.101	0.161	0.025	0.161
	Top	0.033	0.077	0.476	0.048	0.476
	Bottom	0.000	0.000	0.000	0.000	-
	Right	0.000	0.000	0.079	0.000	0.079
	Left	0.014	0.342	0.000	0.027	0.342

Please refer to Appendix D in the original filing for highest reported simultaneous hotspot SAR of WLAN/BT antennas.



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Table D-9
DSI=3 Hotspot AG Verification

	Configuration	AG0	AG1	WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case
Hotspot SAR	Back	1.065	0.230	0.467	See table below
	Front	0.628	0.161	0.261	1.050
	Top	0.000	0.476	0.095	0.571
	Bottom	1.234	0.000	-	1.234
	Right	0.302	0.079	-	0.381
	Left	0.314	0.342	0.475	1.131

Back							
Ant Combination	AG0		AG1		WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case	SPLSR
	SAR	Position	SAR	Position			
Ant A-Ant E	1.065	N/A	0.034	N/A	0.467	1.566	N/A
Ant A-Ant F	1.065	-68.890	0.220	59.500	0.467	See Note 2	0.01
Ant A-Ant J	1.065	-68.890	0.230	77.500	0.467	See Note 2	0.01
Ant A-Ant L	1.065	-68.890	0.167	66.000	0.467	See Note 2	0.01
Ant B-Ant E	0.495	N/A	0.034	N/A	0.467	0.996	N/A
Ant B-Ant F	0.495	N/A	0.220	N/A	0.467	1.182	N/A
Ant B-Ant J	0.495	N/A	0.230	N/A	0.467	1.192	N/A
Ant B-Ant L	0.495	N/A	0.167	N/A	0.467	1.129	N/A
Ant C-Ant E	0.093	N/A	0.034	N/A	0.467	0.594	N/A
Ant C-Ant F	0.093	N/A	0.220	N/A	0.467	0.780	N/A
Ant C-Ant J	0.093	N/A	0.230	N/A	0.467	0.790	N/A
Ant C-Ant L	0.093	N/A	0.167	N/A	0.467	0.727	N/A
Ant D-Ant E	0.265	N/A	0.034	N/A	0.467	0.766	N/A
Ant D-Ant F	0.265	N/A	0.220	N/A	0.467	0.952	N/A
Ant D-Ant J	0.265	N/A	0.230	N/A	0.467	0.962	N/A
Ant D-Ant L	0.265	N/A	0.167	N/A	0.467	0.899	N/A

Notes:

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6, there's no further analysis required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLSR ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

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D.5 Max Phablet (DSI = 0) SAR Antenna Group Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table D-10
DSI=0 Max Phablet AG0 Highest Reported SAR

AG0						
Phablet SAR	Configuration	A	B	C	D	Max
	Back	1.781	1.144	0.000	1.088	1.781
	Front	1.466	0.724	0.000	0.000	1.466
	Top	0.000	0.000	0.000	0.000	-
	Bottom	1.397	1.121	0.000	0.000	1.397
	Right	0.773	1.136	0.000	0.000	1.136
	Left	0.348	0.000	0.000	0.000	0.348



Table D-11
DSI=0 Max Phablet AG1 Highest Reported SAR

AG1						
Phablet SAR	Configuration	E	F	J	L	Max
	Back	0.000	0.880	0.295	0.000	0.880
	Front	0.000	0.000	0.000	0.000	-
	Top	0.000	0.000	2.330	0.000	2.330
	Bottom	0.000	0.000	0.000	0.000	-
	Right	0.000	0.000	0.000	0.000	-
	Left	0.000	3.111	0.000	0.000	3.111

Please refer to Appendix D in the original filing for highest reported simultaneous phablet SAR of WLAN/BT antennas.

Table D-12
DSI=0 Max Phablet AG Verification

	Configuration	AG0	AG1	WLAN/BT Worst-	AG0 + AG1 +
				case	WLAN/BT Worst-
				Combination	case
Phablet SAR	Back	1.781	0.880	1.148	3.809
	Front	1.466	0.000	1.148	2.614
	Top	0.000	2.330	1.148	3.478
	Bottom	1.397	0.000	-	1.397
	Right	1.136	0.000	-	1.136
	Left	0.348	3.111	0.879	See table below

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Left							
Ant Combination	AG0		AG1		WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case	SPLSR
	SAR	Position	SAR	Position			
Ant A-Ant F	0.348	-64.500	3.111	66.100	0.879	See Note 2	0.05

Notes:

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 4W/kg, there's no further analysis required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

D.6 Reduced Phablet (DSI = 1) SAR Antenna Group Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table D-13
DSI=1 Reduced Phablet AG0 Highest Reported SAR

AG0						
Phablet SAR	Configuration	A	B	C	D	Max
	Back	2.210	2.968	0.000	1.088	2.968
	Front	2.115	1.324	0.000	0.000	2.115
	Top	0.000	0.000	0.000	0.000	-
	Bottom	2.923	2.722	0.000	0.000	2.923
	Right	0.773	1.136	0.000	0.000	1.136
	Left	0.348	0.000	0.000	0.000	0.348

Table D-14
DSI=1 Reduced Phablet AG1 Highest Reported SAR

AG1						
Phablet SAR	Configuration	E	F	J	L	Max
	Back	0.000	0.880	0.295	0.000	0.880
	Front	0.000	0.000	0.000	0.000	-
	Top	0.000	0.000	2.330	0.000	2.330
	Bottom	0.000	0.000	0.000	0.000	-
	Right	0.000	0.000	0.000	0.000	-
	Left	0.000	3.111	0.000	0.000	3.111

Please refer to Appendix D in the original filing for highest reported simultaneous phablet SAR of WLAN/BT antennas.



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Table D-15
DSI=1 Reduced Phablet AG Verification

	Configuration	AG0	AG1	WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case
Phablet SAR	Back	2.968	0.880	1.148	See table below
	Front	2.115	0.000	1.148	3.263
	Top	0.000	2.330	1.148	3.478
	Bottom	2.923	0.000	-	2.923
	Right	1.136	0.000	-	1.136
	Left	0.348	3.111	0.879	See table below

Back							
Ant Combination	AG0		AG1		WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case	SPLSR
	SAR	Position	SAR	Position			
Ant A-Ant F	2.210	-76.800	0.880	63.000	1.148	See Note 2	0.04
Ant A-Ant J	2.210	N/A	0.295	N/A	1.148	3.653	N/A
Ant B-Ant F	2.968	-72.800	0.880	63.000	1.148	See Note 2	0.06
Ant B-Ant J	2.968	-72.800	0.295	82.200	1.148	See Note 2	0.04
Ant D-Ant F	1.088	N/A	0.880	N/A	1.148	3.116	N/A
Ant D-Ant J	1.088	N/A	0.295	N/A	1.148	2.531	N/A
Left							
Ant Combination	AG0		AG1		WLAN/BT Worst-case Combination	AG0 + AG1 + WLAN/BT Worst-case	SPLSR
	SAR	Position	SAR	Position			
Ant A-Ant F	0.348	-64.500	3.111	66.100	0.879	See Note 2	0.05

Notes:

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 4W/kg, there's no further analysis required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLSR ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

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D.7 Highest Report SAR and SAR Hotspot Locations

As a conservative assessment, the distances between AG0 and AG1 were determined using the y-axis coordinates of the peak locations only (assumes 0 mm separation on x/z axis)

Table D-16
DSI=2 Right Cheek Peak Y Coordinates

		Right Cheek				
		AG0				AG1
		A	B	C	D	F
Mode/Band	Distance (mm)	0	0	0	0	0
GSM 850	SAR	0.132				
	Y-Axis	-56.960				
GSM 1900	SAR	0.040				
	Y-Axis	-73.640				
UMTS 850	SAR	0.164				
	Y-Axis	-55.170				
UMTS 1750	SAR	0.157				
	Y-Axis	-73.240				
UMTS 1900	SAR	0.038				
	Y-Axis	-75.880				
LTE Band 12	SAR	0.129				
	Y-Axis	-53.650				
LTE Band 13	SAR	0.174				
	Y-Axis	-61.580				
LTE Band 26 (Cell)	SAR	0.167				
	Y-Axis	-55.230				
LTE Band 66 (AWS)	SAR	0.088				
	Y-Axis	-74.620				
LTE Band 25 (PCS)	SAR	0.053				
	Y-Axis	-75.520				
LTE Band 2 (PCS)	SAR	0.048				
	Y-Axis	-76.240				
LTE Band 41	SAR		0.037			
	Y-Axis		-63.390			
NR Band n5 (Cell)	SAR	0.133				
	Y-Axis	-57.210				
NR Band n66 (AWS) Antenna A	SAR	0.086				
	Y-Axis	-76.260				
NR Band n25 (PCS)	SAR	0.051				
	Y-Axis	-73.710				
NR Band n41 Antenna B	SAR		0.009			
	Y-Axis		1.210			
NR Band n41 Antenna D	SAR				0.012	
	Y-Axis				-0.360	
NR Band n77 DoD Antenna F	SAR					0.899
	Y-Axis					-19.470
NR Band n77 DoD Antenna C	SAR			0.000		
	Y-Axis			-77.080		
NR Band n77 DoD Antenna D	SAR				0.000	
	Y-Axis				-51.670	
NR Band n77 Antenna F	SAR					0.898
	Y-Axis					-21.100
NR Band n77 Antenna C	SAR			0.018		
	Y-Axis			-63.130		
NR Band n77 Antenna D	SAR				0.000	
	Y-Axis				-82.910	




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Table D-17
DSI=3 Back Side Peak Y Coordinates

		Back			
		AG0	AG1		
		A	F	J	L
Mode/Band	Distance (mm)	10	10	10	10
GSM 850	SAR	1.065			
	Y-Axis	-73.600			
GSM 1900	SAR	0.258			
	Y-Axis	-81.600			
UMTS 850	SAR	0.686			
	Y-Axis	-73.700			
UMTS 1750	SAR	0.749			
	Y-Axis	-80.600			
UMTS 1900	SAR	0.472			
	Y-Axis	-88.100			
LTE Band 12	SAR	0.426			
	Y-Axis	-68.890			
LTE Band 13	SAR	0.569			
	Y-Axis	-74.770			
LTE Band 26 (Cell)	SAR	0.741			
	Y-Axis	-73.800			
LTE Band 4 (AWS)	SAR			0.063	
	Y-Axis			85.000	
LTE Band 66 (AWS)	SAR	0.290			
	Y-Axis	-81.900			
LTE Band 25 (PCS)	SAR	0.277			
	Y-Axis	-82.900			
LTE Band 2 (PCS)	SAR	0.213			
	Y-Axis	-80.400			
NR Band n5 (Cell)	SAR	0.632			
	Y-Axis	-74.800			
NR Band n66 (AWS) Antenna A	SAR	0.308			
	Y-Axis	-83.400			
NR Band n25 (PCS)	SAR	0.544			
	Y-Axis	-80.600			
NR Band n66 (AWS) Antenna J	SAR			0.122	
	Y-Axis			86.600	
NR Band n41 Antenna J	SAR			0.230	
	Y-Axis			77.500	
NR Band n77 DoD Antenna F	SAR		0.220		
	Y-Axis		62.600		
NR Band n77 DoD Antenna L	SAR				0.167
	Y-Axis				67.000
NR Band n77 Antenna F	SAR		0.184		
	Y-Axis		59.500		
NR Band n77 Antenna L	SAR				0.163
	Y-Axis				66.000



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Table D-18
DSI=0 Left Edge Max Phablet and DSI=1 Left Edge Reduced Phablet Peak Y Coordinates

Left			
		AG0	AG1
		A	F
Mode/Band	Distance (mm)	0	0
GSM 1900	SAR	0.294	
	Y-Axis	-73.300	
UMTS 1750	SAR	0.348	
	Y-Axis	-70.000	
UMTS 1900	SAR	0.287	
	Y-Axis	-77.100	
LTE Band 66 (AWS)	SAR	0.264	
	Y-Axis	-77.000	
LTE Band 25 (PCS)	SAR	0.202	
	Y-Axis	-79.500	
LTE Band 2 (PCS)	SAR	0.331	
	Y-Axis	-81.400	
NR Band n66 (AWS) Antenna A	SAR	0.162	
	Y-Axis	-64.500	
NR Band n25 (PCS)	SAR	0.300	
	Y-Axis	-74.600	
NR Band n77 DoD Antenna F	SAR		3.072
	Y-Axis		70.500
NR Band n77 Antenna F	SAR		3.111
	Y-Axis		66.100






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Table D-19
DSI=1 Back Side Reduced Phablet Peak Y Coordinates

Back					
		AG0		AG1	
		A	B	F	J
Mode/Band	Distance (mm)	0	0	0	0
GSM 1900	SAR	1.271			
	Y-Axis	-80.200			
UMTS 1750	SAR	1.549			
	Y-Axis	-80.300			
UMTS 1900	SAR	1.621			
	Y-Axis	-82.000			
LTE Band 66 (AWS)	SAR	1.480			
	Y-Axis	-80.900			
LTE Band 25 (PCS)	SAR	1.086			
	Y-Axis	-81.700			
LTE Band 2 (PCS)	SAR	1.507			
	Y-Axis	-84.900			
LTE Band 41	SAR		2.968		
	Y-Axis		-72.800		
NR Band n66 (AWS) Antenna A	SAR	1.492			
	Y-Axis	-81.300			
NR Band n25 (PCS)	SAR	2.210			
	Y-Axis	-76.800			
NR Band n41 Antenna J	SAR				0.295
	Y-Axis				82.200
NR Band n41 Antenna B	SAR		1.144		
	Y-Axis		-78.900		
NR Band n77 DoD Antenna F	SAR			0.880	
	Y-Axis			63.000	

D.8 Conclusion

The above SPLSR criteria for all of the combinations of sub6 antenna groups is demonstrated to show that AG0 is mutually exclusive from AG1. Additional analysis for simultaneous analysis for the antenna groups and WIFI/BT antennas compliance demonstration is included in Appendix E

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