

A) modes	B) 2 Barcode Scanner	C) 3 Keypad	D) 2 Battery	E) 2 Body-Mount Disclosed
1) 802.11abg (Main Ant)	1) SE960 2) SE4500	1) PIM 2) Qwerty 3) Numeric	1) 1X 2) 1.5X	1) SG-MC5511110-01R (Display-Inward only) 2) SG-MC5521110-01R 3) 1.5 cm (air gap - no holster)

Highlighted channels marked yellow are the default test channels for proposed final SAR report.

Highlighted Channels marked blue are the additional test channels per KDB 248227 requirement.

For 802.11b, all channels SAR will be performed if the SAR of the highest power channel is larger than 0.8 W/kg.

SAR Test Procedure (SAR Test Reduction)

Limited SAR pretesting was performed to identify which test position would produce the highest SAR reading.

Below are the test results.

System & Position					DUT & Accessory					SAR
Plot No.	Band	Test Position	Separation Distance (cm)	Channel	Ant Status	Battery	Keypad	Scanner	Holster	SAR 1g (mW/g)
#1	802.11a	Right Cheek	-	36	Main	1	2	2	-	0.016
#2	802.11a	Right Tilted	-	36	Main	1	2	2	-	0.023
#3	802.11a	Left Cheek	-	36	Main	1	2	2	-	0.028
#4	802.11a	Left Tilted	-	36	Main	1	2	2	-	0.034

As expected **Left head Tilt** found to produce highest SAR reading; due to position of WLAN antenna in relation to phantom.

Next steps:

Step 1) HL T --- Confirm highest SAR configuration using highest power channel for each band (marked as orange cells)

Step 2) HL C --- Test only configuration which produces highest result in mode HL T

Step 3) HR T --- Test only configuration which produces highest result in mode HL T

Step 4) HR C --- Test only configuration which produces highest result in mode HL T

Step 5) Test others default and additional channels (marked as yellow and blue cells) on the highest SAR position

Important Note

In the event that higher SAR values are found in other test mode, we will need to redefine test configurations to ensure maximum SAR is captured.

BODY SAR

Again for Body SAR same rational (test reduction again)

SAR Test Procedure (SAR Test Reduction)

Limited SAR pretesting was performed to identify worst case position using air gap (1.5cm)
Below are the test results.

System & Position					DUT & Accessory					SAR
Plot No.	Band	Test Position	Separation Distance (cm)	Channel	Ant Status	Battery	Keypad	Scanner	Holster	SAR 1g (mW/g)
#1	802.11a	Face	1.5	36	Main	2	2	2	-	0.00511
#2	802.11a	Bottom	1.5	36	Main	2	2	2	-	0.07

Next steps:

Step 1) --- Confirm highest SAR configuration using highest power channel for each band (marked as orange cells)

Step 2) --- Test only configuration which produces highest result in mode Air gap

Step 3) --- Test only configuration which produces highest result in mode Air gap

Step 4) --- Test only configuration which produces highest result in mode Air gap

Step 5) Test others default and additional channels (marked as yellow and blue cells) on the highest SAR position

Important Note

In the event that higher SAR values are found in other test mode, we will need to redefine test configurations to ensure maximum SAR is captured.

Row#	Body, or Head (ear) L or R	Cheek or Tilt	A) mode	B) Scanner	C) Keypad	D) Battery	E) Body-Mount	F) body-worn	Ch1 2.412 b	Ch6 2.437 b	Ch11 2.462 b	Ch1 2.412 g	Ch6 2.437 g	Ch11 2.462 g	Ch36 5.18	Ch40 5.2 (alt)	Ch44 5.22 (alt)	Ch48 5.24	Ch52 5.26	Ch56 5.28 (alt)	Ch60 5.30 (alt)	Ch64 5.32	Ch100 5.5 (alt)	Ch104 5.52	Ch108 5.54 (alt)	Ch112 5.56 (alt)	Ch116 5.58	Ch120 5.6 (alt)	Ch124 5.62	Ch128 5.64 (alt)	Ch132 5.66 (alt)	Ch136 5.68	Ch140 5.7 (alt)	Ch149 5.745 DTS/NIJ	Ch153 5.765 (alt)	Ch157 5.785 DTS	Ch161 5.805 NIJ	Ch165 5.825 DTS						
PdBm									13.42	13.32	13.36	11.28	15.41	11.20	13.05	13.75	14.30	12.50	15.01	14.38	14.60	11.70	12.51	15.57	15.53	15.21	15.20	13.78	15.57	14.83	14.35	14.27	8.40	15.04	14.75	15.19	15.00	14.38						
73	B		1	1	1	1	2	B																0.161																				
74	B		1	1	1	2	2	B																																				
75	B		1	1	2	1	2	B																																				
76	B		1	1	2	2	2	B																																				
77	B		1	1	3	1	2	B																																				
78	B		1	1	3	2	2	B																																				
79	B		1	2	1	1	2	B																																				
80	B		1	2	1	2	2	B																																				
81	B		1	2	2	1	2	B					0.05		0.138		0.25	0.205	0.252																				0.166					
82	B		1	2	2	2	2	B																																				
83	B		1	2	3	1	2	B																																				
84	B		1	2	3	2	2	B																																				
85	B		1	1	1	1	3	F																0.02																				
86	B		1	1	1	2	3	F																																				
87	B		1	1	2	1	3	F																																				
88	B		1	1	2	2	3	F																																				
89	B		1	1	3	1	3	F																																				
90	B		1	1	3	2	3	F																																				
91	B		1	2	1	1	3	F																																				
92	B		1	2	1	2	3	F																																				
93	B		1	2	2	1	3	F					0.035				0.032		0.055																						0.029			
94	B		1	2	2	2	3	F																																				
95	B		1	2	3	1	3	F																																				
96	B		1	2	3	2	3	F																																				
97	B		1	1	1	1	3	B	0.03				0.038				0.171		0.395					0.233			0.197		0.198		0.238	0.166							0.283					
98	B		1	1	1	2	3	B					0.029				0.183		0.256					0.14																0.131				
99	B		1	1	2	1	3	B					0.041				0.177		0.324					0.225																0.31				
100	B		1	1	2	2	3	B					0.028				0.17		0.265					0.143																	0.238			
101	B		1	1	3	1	3	B					0.037				0.184		0.32					0.232																	0.223			
102	B		1	1	3	2	3	B					0.029				0.14		0.246					0.138																	0.206			
103	B		1	2	1	1	3	B					0.047				0.154		0.278					0.229																	0.311			
104	B		1	2	1	2	3	B					0.033				0.119		0.195					0.142																	0.266			
105	B		1	2	2	1	3	B					0.053				0.199		0.396		0.356	0.188		0.222											0.167			0.323	0.216	0.215				
106	B		1	2	2	2	3	B					0.042				0.158		0.286					0.148																0.312				
107	B		1	2	3	1	3	B					0.052				0.17		0.331					0.172																0.279				
108	B		1	2	3	2	3	B					0.036				0.135		0.24					0.111																0.258				