#### Report No.: 4791196642-S1

# Hall effect sensor verification

This device has implemented 2 different power operation using Hall effect sensor. So Hall effect sensor was verified according to guide of APPENDIX TXSENS in KDB 388624 D02. This process must be followed to determine the lid angle where a power reduction occurs, by taking power measurements at each step, as indicated in the step listed here below:

- Step1. From the lid in closed mode (0 degrees), open the screen in 10 degree steps until open mode is obtained.
- Step2. Lower the screen by 5 degrees increments to verify that the "closed mode" is triggered.
- Step3. From the position of the previous step, open the screen in 1 degree increments until open mode is triggered again.
- Step4. Continue opening the screen in 1 degree increments until at least 5 degrees past where "open mode" was obtained, then continue opening the screen in 10 degree steps until the device switches to open mode.
- Step5. Reverse the previous procedure to go from open mode back down to closed mode.

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# Test results (Close mode to Open mode)

	A	DUT Angles(degess)													
Techs		0-4	5	6	7	8	9	10	11	12	13	14	15	25-180	
Techs	Antenna	DSI1 (Close mode)							DSI0 (Open mode)						
							Measured	output po	tput power (dBm)						
LTE Band 2	Ant.B	18.99	19.01	18.98	18.97	18.94	18.87	17.93	17.95	17.96	17.92	17.97	17.98	17.97	
LTE Band 41	Ant.B	20.42	20.41	20.41	20.39	20.4	20.34	17.85	17.82	17.83	17.83	17.86	17.84	17.82	
NR Band n41	Ant.B	18.71	18.7	18.71	18.73	18.71	18.68	17.32	17.28	17.31	17.28	17.30	17.29	17.29	
6E	Ant.G	12.38	12.33	12.37	12.4	12.35	12.34	10.31	10.33	10.36	10.31	10.40	10.38	10.37	
	Ant.D	12.77	12.71	12.78	12.8	12.74	12.77	10.67	10.61	10.70	10.71	10.66	10.64	10.66	

# Test results (Open mode to Close mode)

	Techs Antenna	DUT Angles(degess)														
Tacha		30~180	20	10	9	8	7	6	5	4	3	2	1	0		
recis				DSIC	Open mo	ode)	DSI1 (Close mode)									
			Measured output po							ower (dBm)						
LTE Band 2	Ant.B	17.91	17.94	17.91	17.89	17.88	17.89	17.88	18.87	18.93	18.98	18.99	19.01	18.99		
LTE Band 41	Ant.B	17.88	17.85	17.87	17.88	17.89	17.88	17.86	20.32	20.38	20.37	20.38	20.4	20.38		
NR Band n41	Ant.B	17.33	17.31	17.31	17.32	17.35	17.34	17.31	18.73	18.76	18.81	18.76	18.77	18.72		
6E	Ant.G	10.33	10.36	10.41	10.44	10.35	10.36	10.38	12.37	12.41	12.37	12.44	12.39	12.41		
	Ant.D	10.66	10.68	10.71	10.72	10.66	10.68	10.69	12.88	12.77	12.75	12.74	12.78	12.81		

### **Conclusion**

DUT Configuration	SAR test	Operate power mode				
Folder Close	Body SAR	DSI 1				
Folder Open	Body SAR	DSI 0				

#### Notes:

According to Hall effect sensor verification results, Body SAR test were performed by applying DSI 1 power to Folder Close and DSI 0 power to Folder Open.