

Annex L. Verifying the Mechanism Operation of Gravity-sensor

The power verified by LCD angle changed are shown as below.

<Power Reduction by LCD Angle Changed and Verifying Power Level of DSI on Setp A ~ G>

Test Band : WCDMA II for 3G Representative

Summary		<A> From lid closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 2 is obtained.																			
Degrees	0	10	20	30	40	50					160	170	180	190	200	210					
Power (dBm)	22.7	22.7	22.8	22.6	22.5	22.6					22.8	23.0	23.0	22.8	22.9	15.3					
		 Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																			
Degrees							190	195	200	205	210										
Power (dBm)							22.5	22.5	22.6	15.5	15.3										
		<C> Verifying the power changed in 1° at each step.																			
Degrees							198	199	200	201	202										
Power (dBm)							22.8	22.7	22.8	15.5	15.7										
		<D> Then Keep opening the screen side in 10° each step until fully open when LCD angle.																			
Degrees	0	10	20	30	40	50					180	190	200	210	220						
Power (dBm)	22.7	22.5	22.5	22.6	22.4	22.3					22.7	22.7	22.9	15.4	15.3						
																340	350	360			
																15.8	15.7	15.7			
		<E> From fully open when LCD is 360° which DSI = 2, closing the screen side in 10° each step until DSI = 0 is obtained.																			
Degrees	360	350	340	330	320	310					200	190	180	170	160						
Power (dBm)	15.7	15.9	15.8	15.7	15.8	15.9					22.6	22.6	22.7	22.5	22.5						
		<F> From fully open when LCD is 360° which DSI = 2, closing the screen side in 5° each step until fully closed.																			
Degrees	360	355	350	345	340	335	330	325	320	315	310	205	200	195							
Power (dBm)	15.6	15.5	15.4	15.5	15.6	15.6	15.6	15.5	15.4	15.4	15.4	15.8	22.8	23.0							
		<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																			
Degrees	360	359	358	357	356	355	354	353	352	351	350	202	201	200	199	198	199	198			
Power (dBm)	15.6	15.5	15.5	15.4	15.7	15.9	15.7	15.6	15.5	15.5	15.4	15.2	15.3	22.5	22.6	22.5	22.4	22.4			
																5	4	3	2	1	0
																22.5	22.6	22.6	22.5	22.5	22.7

Test Band : LTE 2 for 4G Representative

Summary		<A> From lid closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 2 is obtained.																			
Degrees	0	10	20	30	40	50					160	170	180	190	200	210					
Power (dBm)	23.4	23.5	23.5	23.2	23.2	23.1					23.8	23.8	23.4	23.2	23.1	15.5					
		 Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																			
Degrees							190	195	200	205	210										
Power (dBm)							23.1	23.3	23.1	15.6	15.5										
		<C> Verifying the power changed in 1° at each step.																			
Degrees							198	199	200	201	202										
Power (dBm)							22.9	22.8	22.9	15.5	15.5										
		<D> Then Keep opening the screen side in 10° each step until fully open when LCD angle.																			
Degrees	0	10	20	30	40	50					180	190	200	210	220						
Power (dBm)	22.8	22.8	22.9	22.8	23.0	22.9					22.8	22.9	22.8	15.7	15.9						
																340	350	360			
																15.5	15.6	15.6			
		<E> From fully open when LCD is 360° which DSI = 2, closing the screen side in 10° each step until DSI = 0 is obtained.																			
Degrees	360	350	340	330	320	310					200	190	180	170	160						
Power (dBm)	15.7	15.5	15.5	15.7	15.6	15.6					22.9	23.1	23.0	22.8	22.9						
		<F> From fully open when LCD is 360° which DSI = 2, closing the screen side in 5° each step until fully closed.																			
Degrees	360	355	350	345	340	335	330	325	320	315	310	205	200	195							
Power (dBm)	15.7	15.5	15.7	15.7	15.8	15.7	15.6	15.5	15.8	15.7	15.8	15.7	22.8	22.9							
		<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																			
Degrees	360	359	358	357	356	355	354	353	352	351	350	202	201	200	199	198	199	198			
Power (dBm)	15.8	16.0	16.0	15.9	15.9	15.8	15.9	15.8	15.8	15.7	15.7	15.5	15.6	22.7	22.7	22.8	22.7	22.7			
																5	4	3	2	1	0
																22.8	22.8	22.6	22.5	22.6	22.8

Test Band : NR n2 for 5G Representative

Summary		<A> From lid closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 2 is obtained.																			
Degrees	0	10	20	30	40	50					160	170	180	190	200	210					
Power (dBm)	23.9	24.0	23.8	23.8	23.6	23.5					23.8	23.8	23.9	24.0	24.0	12.6					
		 Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																			
Degrees							190	195	200	205	210										
Power (dBm)							23.7	23.9	23.9	12.7	12.5										
		<C> Verifying the power changed in 1° at each step.																			
Degrees							198	199	200	201	202										
Power (dBm)							23.8	23.9	23.9	12.7	12.7										
		<D> Then Keep opening the screen side in 10° each step until fully open when LCD angle.																			
Degrees	0	10	20	30	40	50					180	190	200	210	220						
Power (dBm)	23.6	23.6	23.8	23.9	23.7	23.7					23.5	23.5	23.7	12.8	12.8						
																340	350	360			
																12.6	12.6	12.8			
		<E> From fully open when LCD is 360° which DSI = 2, closing the screen side in 10° each step until DSI = 0 is obtained.																			
Degrees	360	350	340	330	320	310					200	190	180	170	160						
Power (dBm)	12.5	12.5	12.7	12.7	12.7	12.8					23.6	23.6	23.7	23.8	23.8						
		<F> From fully open when LCD is 360° which DSI = 2, closing the screen side in 5° each step until fully closed.																			
Degrees	360	355	350	345	340	335	330	325	320	315	310	205	200	195							
Power (dBm)	12.5	12.7	12.7	12.5	12.6	12.6	12.6	12.7	12.8	12.8	12.7	12.9	23.8	23.6							
		<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																			
Degrees	360	359	358	357	356	355	354	353	352	351	350	202	201	200	199	198	199	198			
Power (dBm)	12.5	12.5	12.6	12.5	12.6	12.5	12.5	12.6	12.6	12.7	12.6	12.7	12.7	23.7	23.6	23.8	23.8	24.0			
																5	4	3	2	1	0
																23.8	23.6	23.6	23.7	23.7	23.8

Test Band : 802.11b Ant 2 for WLAN 2.4G Representative

Summary		<A> From lid closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 1 is obtained.																			
Degrees	0	10	20	30	40	50					160	170	180	190	200	210					
Power (dBm)	17.0	16.9	16.9	16.8	16.8	16.7					16.7	16.5	16.5	16.6	16.8	12.1					
		 Close the screen side in 5° each step from Step A, until DSI = 0 is reobtained.																			
Degrees							190	195	200	205	210										
Power (dBm)							16.8	16.8	16.9	11.9	12.0										
		<C> Verifying the power changed in 1° at each step.																			
Degrees							198	199	200	201	202										
Power (dBm)							16.9	16.9	16.9	12.0	12.0										
		<D> Then Keep opening the screen side in 10° each step until fully open when LCD angle.																			
Degrees	0	10	20	30	40	50					180	190	200	210	220						
Power (dBm)	16.9	16.8	16.7	16.7	16.7	16.8					16.9	16.9	17.0	11.9	11.8						
																340	350	360			
																11.6	11.6	11.7			
		<E> From fully open when LCD is 360° which DSI = 1, closing the screen side in 10° each step until DSI = 0 is obtained.																			
Degrees	360	350	340	330	320	310					200	190	180	170	160						
Power (dBm)	11.8	11.7	11.7	11.6	11.7	11.7					17.1	17.0	17.0	16.8	16.7						
		<F> From fully open when LCD is 360° which DSI = 1, closing the screen side in 5° each step until fully closed.																			
Degrees	360	355	350	345	340	335	330	325	320	315	310	205	200	195							
Power (dBm)	11.7	11.7	11.7	11.8	11.8	11.9	11.7	11.7	11.6	11.6	11.7	11.7	16.9	16.9							
		<G> Closing the screen side in 1° each step until DSI = 1 is obtained and keep closing until fully closed.																			
Degrees	360	359	358	357	356	355	354	353	352	351	350	202	201	200	199	198	199	198			
Power (dBm)	11.8	11.9	11.9	11.8	11.7	11.7	11.8	11.9	11.9	11.8	11.7	12.4	12.2	16.9	17.0	16.9	16.9	16.8			
																5	4	3	2	1	0
																16.7	16.8	16.9	16.8	16.9	16.9

Test Band : 802.11a Ant 2 for WLAN 5.3G Representative

Summary		<A> From lid closed when LCD is 0° which DSI = 0, opening the screen side in 10° each step until DSI = 1 is obtained.									
Degrees	0	10	20	30	40	50					