BC95 Power Consumption Test Result

Current Consumption

Parameter	Description	Conditions	Min.	Typ.	Max.	Unit
I_{VBAT}	Deep sleep mode	PSM		3.2	5	uA
	Standby mode	Idle		6		mA
	Active mode	Data transfer (23dBm)		250		mA
		Data receiving		61		mA

Coverage Level 0 > -122 dbm
Test under: -106 /-108 dbm
Tx power controlled by RSRP

Startup→Attach	13s	139.7uAh
Connect State	5s	46.5uAh
PSM→Attach	500ms	4.8uAh
PSM→Send 200bytes	890ms	12uAh
PSM→Attach→Send 200bytes→Connect→PSM	8s	120.2uAh
PSM	24h	80.8uAh

1000mah battery
(1000*1000)/(120.2+80.8)/365=11.4 Years

Coverage Level 1 -132~-122 dbm
Test under: -128 /-129 dbm
Tx power: 23dbm

Startup→Attach	17.5s	175.46uAh
Connect State	5s	72.9uAh
PSM→Attach	830.9ms	10.7uAh
PSM→Send 200bytes	3.1s	119.6uAh
PSM→Attach→Send 200bytes→Connect→PSM	9s	201.5uAh
PSM	24h	80.8uAh

1000mah battery
(1000*1000)/(201.5+80.8)/365=9.7 Years

Coverage Level 2 <-132 dbm
Test under: -136 /-137 dbm
Tx power: 23dbm

Startup→Attach	39s	871.9uAh
Connect State	5s	62.44uAh
PSM→Attach	4s	79.3uAh
PSM→Send 200bytes	22.3s	924.59uAh
PSM→Attach→Send 200bytes→Connect→PSM	29s	1031.8uAh
PSM	24h	80.8uAh

1000mah battery
(1000*1000)/(1031.8+80.8)/365=2.5 Years

UE has been searching for 12 minutes after the boot, the total power consumption of 12.335mAh.

UE Networking Process
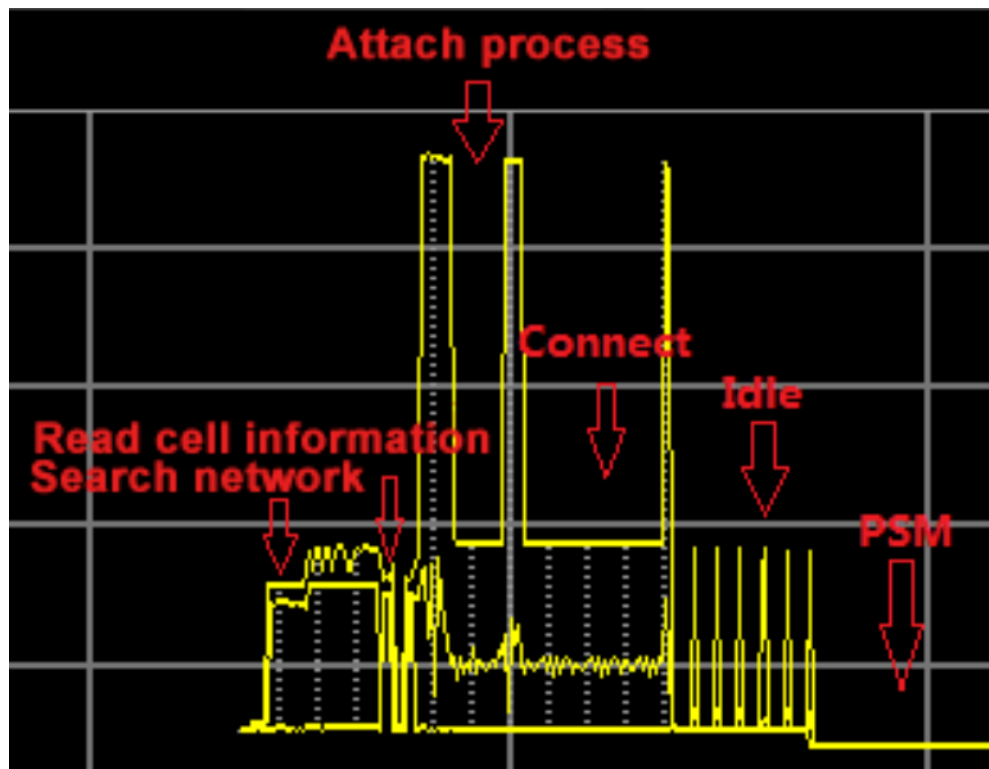
Connect state means UE inactivity time.

The DRX cycle on the idle state can be set by the local core network.

Connect state and idle state and PSM state duration is configured by the local core network.