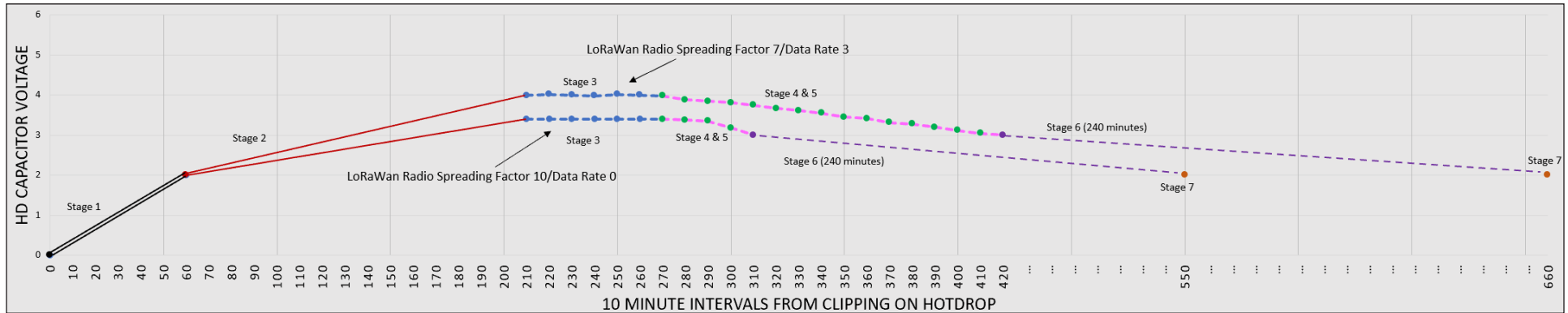




How LoRaWAN Spreading Factor Impacts Low Power Mode

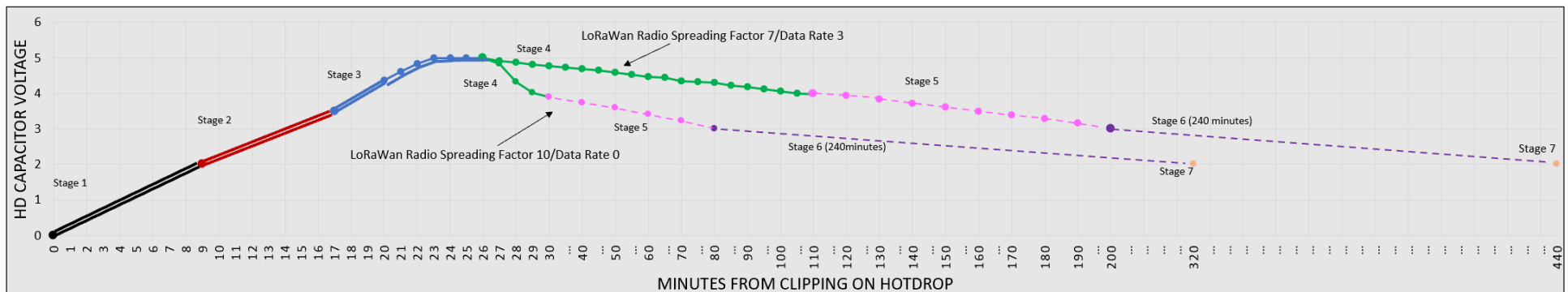
300A HotDrop | 1A Current | SF 7 & 10



- Stage 1:** HotDrop is placed on circuit and is powering up (Black)
- Stage 2:** HotDrop is powering up but is now measuring data simultaneously (Red)
- Stage 3:** HotDrop is now connected to the gateway and is transmitting data however it is in Low Power mode where it only transmits the minute by minute data every 10 minutes (Blue line)
- Stage 4:** HotDrop is taken off circuit and is slowly losing power (Green Dots)

- Stage 5:** HotDrop remains in low power mode as it loses power (Pink Dotted Line)
- Stage 6:** HotDrop stops transmitting data but will continue to measure (Purple)
- Stage 7:** After ~4 hours the HotDrop will have lost enough power that it will stop measuring data (Orange)

300A HotDrop | 5A Current | SF 7 & 10



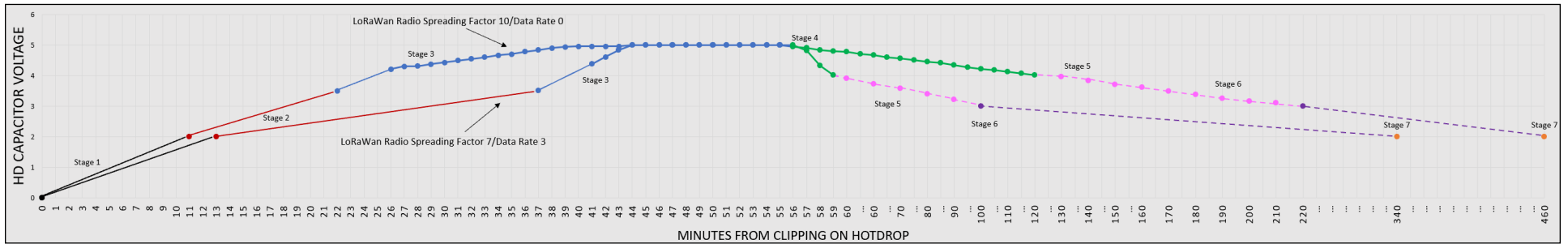
- Stage 1:** HotDrop is placed on circuit and is powering up (Black)
- Stage 2:** HotDrop is still powering up but is now measuring data simultaneously (Red)
- Stage 3:** HotDrop is now connected to the gateway and is transmitting data (Blue)
- Stage 4:** HotDrop is taken off circuit and is slowly losing power (Green)

- Stage 5:** HotDrop enters Low Power mode, where it will measure minute by minute data but only transmit every 10 minutes (pink)
- Stage 6:** HotDrop stops transmitting data but will continue to measure (Purple)
- Stage 7:** After ~4 hours the HotDrop will have lost enough power that it will stop measuring data (Orange)



How LoRaWAN Spreading Factor Impacts Low Power Mode

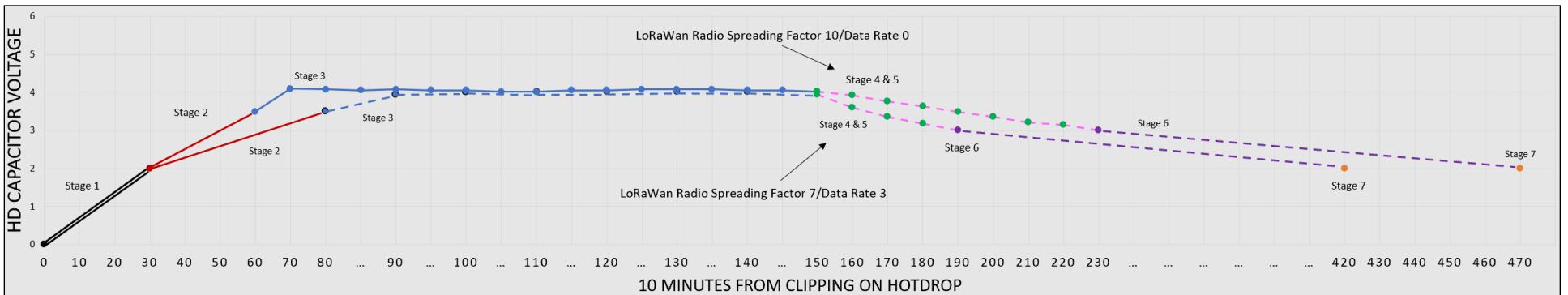
400A HotDrop | 5A Current | SF 7 & 10



- Stage 1:** HotDrop is placed on circuit and is powering up (Black)
- Stage 2:** HotDrop is powering up but is now measuring data simultaneously (Red)
- Stage 3:** HotDrop is now connected to the gateway and is transmitting data (Blue line)
- Stage 4:** HotDrop is taken off circuit and is slowly losing power (Green)

- Stage 5:** HotDrop enters Low Power mode, where it will measure data every 5 seconds but only transmit every 10 minutes (pink)
- Stage 6:** HotDrop stops transmitting data but will continue to measure (Purple)
- Stage 7:** After ~4 hours the HotDrop will have lost enough power that it will stop measuring data (Orange)

1000A HotDrop | 5A Current | SF 7 & 10



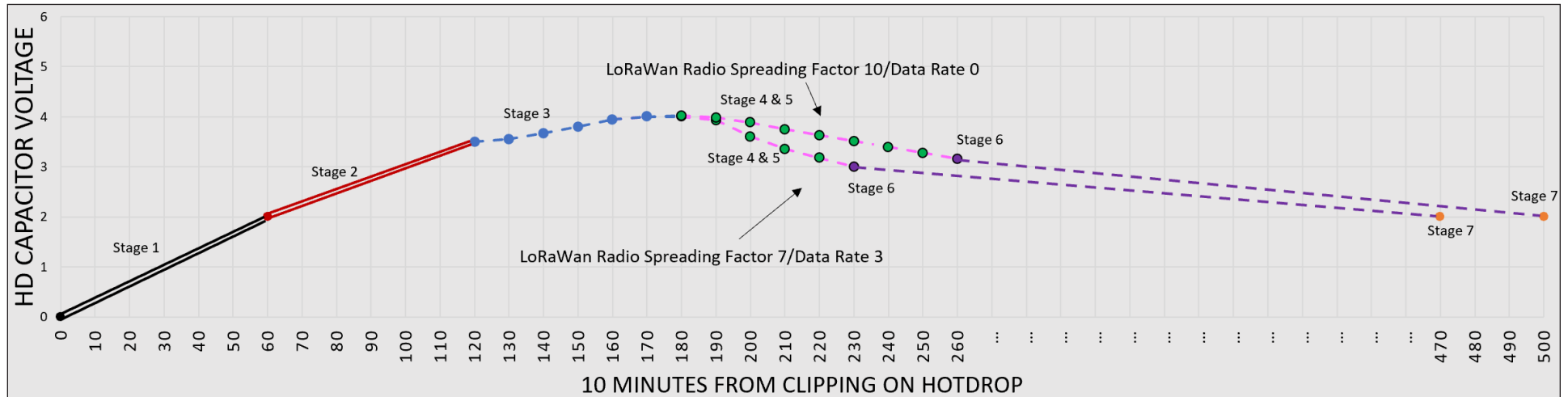
- Stage 1:** HotDrop is placed on circuit and is powering up (Black)
- Stage 2:** HotDrop is powering up but is now measuring data simultaneously (Red)
- Stage 3:** HotDrop is now connected to the gateway and is transmitting data however it is in Low Power mode where it only transmits the minute by minute data every 10 minutes (Blue line)

- Stage 4:** HotDrop is taken off circuit and is slowly losing power (Green Dots)
- Stage 5:** HotDrop remains in low power mode as it loses power (Pink Dotted Line)
- Stage 6:** HotDrop stops transmitting data but will continue to measure (Purple)
- Stage 7:** After ~4 hours the HotDrop will have lost enough power that it will stop measuring data (Orange)



How LoRaWAN Spreading Factor Impacts Low Power Mode

1500A HotDrop | 5A Current | SF 7 & 10



Stage 1: HotDrop is placed on circuit and is powering up (Black)

Stage 2: HotDrop is powering up but is now measuring data simultaneously (Red)

Stage 3: HotDrop is now connected to the gateway and is transmitting data however it is in Low Power mode where it only transmits the minute by minute data every 10 minutes (Blue line)

Stage 4: HotDrop is taken off circuit and is slowly losing power (Green Dots)

Stage 5: HotDrop remains in low power mode as it loses power (Pink Dotted Line)

Stage 6: HotDrop stops transmitting data but will continue to measure (Purple)

Stage 7: After ~4 hours the HotDrop will have lost enough power that it will stop measuring data (Orange)



How LoRaWAN Spreading Factor Impacts Low Power Mode

