

MAXIMUM OUTPUT POWER

FCCID:	BCG-E8725A, BCG-E8726A, BCG-E8727A, BCG-E8728A
IC ID:	579C-E8725A, 579C-E8726A, 579C-E8727A, 579C-E8728A
Model Number/HVIN:	A3212, A3408, A3409, A3410
Date:	12/04/2024

Procedure

During manufacturing, each device is individually calibrated and the RF output levels are checked. The measurement is done on a fully calibrated setup. The power levels listed are maximum.

The SAR values are the maximum transmit power for all rates under a given Mode. The BT has two RF path, called low power RF path and high power RF path. The RF values for low power RF path and high power RF path are the maximum allowed transmit powers for a given rate and PA path. Depending on the transmit power for a given SAR Mode, the RF path will choose the appropriate RF path.

RF Tune Up Values – ANT 3 & ANT 4

	ANT 3	ANT 4
Rates	Maximum (dBm)	Maximum (dBm)
High Power		
BDR	20	20
EDR	16.5	16.5
LE1M	20.5	20.5
LE2M	20.5	20.5
HDR4	12.5	12.5
HDR8	13.5	13.5
Low Power		
BDR	11.5	12.5
EDR	8.5	8.5
LE1M	9	9
LE2M	9	9
HDR4	6.5	6.5
HDR8	7.5	7.5
High Power (TxBF)		
BDR	17	17
EDR	13.5	13.5
LE1M	20.5	20.5
LE2M	20.5	20.5
HDR4	12.5	12.5
HDR8	13.5	13.5
Low Power (TxBF)		
BDR	11.5	12.5
EDR	8.5	8.5
LE1M	4	4.5
LE2M	4	4.5
HDR4	6.5	6.5
HDR8	7.5	7.5

Maximum powers are noted above.

SAR Tune Up Values – ANT 3 & ANT 4

Bluetooth (P_{low} , P_{high} , and $P_{\text{standalone}}$)

For Bluetooth, there are three use cases:

- Bluetooth P_{low} is used with Wi-Fi and WWAN antennas are active.
- Bluetooth P_{high} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth $P_{\text{standalone}}$ is used with Wi-Fi and WWAN antennas are inactive.

	ANT 3		ANT 4	
Rates	Mode A Power Table Maximum (dBm)	Mode B Power Table Maximum (dBm)	Mode A Power Table Maximum (dBm)	Mode B Power Table Maximum (dBm)
P_{low}				
BDR	13	11	11	11
EDR	13	11	11	11
LE1M	13	11	11	11
LE2M	13	11	11	11
HDR4	12.5	11	11	11
HDR8	13	11	11	11
P_{high}				
BDR	19	16.5	16.5	16.5
EDR	16.5	16.5	16.5	16.5
LE1M	19	16.5	16.5	16.5
LE2M	19	16.5	16.5	16.5
HDR4	12.5	12.5	12.5	12.5
HDR8	13.5	13.5	13.5	13.5
$P_{\text{standalone}}$				
BDR	20	20	20	20
EDR	16.5	16.5	16.5	16.5
LE1M	20	20	20	20
LE2M	20	20	20	20
HDR4	12.5	12.5	12.5	12.5
HDR8	13.5	13.5	13.5	13.5

Maximum powers are noted above

SAR Tune Up Values (TxBF) – ANT 3 & ANT 4

	ANT 3		ANT 4	
Rates	Mode A Power Table Maximum (dBm)	Mode B Power Table Maximum (dBm)	Mode A Power Table Maximum (dBm)	Mode B Power Table Maximum (dBm)
P_{low}				
BDR	13	11	11	11
EDR	13	11	11	11
LE1M	13	11	11	11
LE2M	13	11	11	11
HDR4	12.5	11	11	11
HDR8	13	11	11	11
P_{high}				
BDR	19	16.5	16.5	16.5
EDR	16.5	16.5	16.5	16.5
LE1M	19	16.5	16.5	16.5
LE2M	19	16.5	16.5	16.5
HDR4	12.5	12.5	12.5	12.5
HDR8	13.5	13.5	13.5	13.5
P_{Standalone}				
BDR	20	20	20	20
EDR	16.5	16.5	16.5	16.5
LE1M	20	20	20	20
LE2M	20	20	20	20
HDR4	12.5	12.5	12.5	12.5
HDR8	13.5	13.5	13.5	13.5

Maximum powers are noted above