

APP A Conducted Power

1. GSM Conducted Power

GSM 850MHz		Burst-Averaged Power (dBm)			Tune-up Limit (dBm)	Division Factors	Frame-Averaged Power (dBm)		
		128CH	190CH	251CH			128CH	190CH	251CH
GPRS /EDGE (GMSK)	1 Tx Slot	31.38	31.38	31.28	32.5	-9.19	22.19	22.19	22.09
	2 Tx Slots	31.39	31.4	31.3	31.5	-6.13	25.26	25.27	25.17
	3 Tx Slots	30.56	30.58	30.47	31	-4.42	26.14	26.16	26.05
	4 Tx Slots	29.38	29.43	29.34	29.5	-3.18	26.20	26.25	26.16
EDGE (8PSK)	1 Tx Slot	26.12	26.17	26.19	26.5	-9.19	16.93	16.98	17.00
	2 Tx Slots	26.11	26.12	26.18	26.2	-6.13	19.98	19.99	20.05
	3 Tx Slots	25.29	25.32	25.37	25.5	-4.42	20.87	20.90	20.95
	4 Tx Slots	24.13	24.13	24.16	24.5	-3.18	20.95	20.95	20.98

Note:

- 1) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2) As per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be selected to perform SAR evaluation in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be selected.

GSM 1900MHz		Burst-Averaged Power (dBm)			Tune-up Limit (dBm)	Division Factors	Frame-Averaged Power (dBm)		
		512CH	661CH	810CH			512CH	661CH	810CH
GPRS /EDGE (GMSK)	1 Tx Slot	25.26	25.99	25.82	26	-9.19	16.07	16.80	16.63
	2 Tx Slots	25.31	25.76	25.83	26	-6.13	19.18	19.63	19.70
	3 Tx Slots	24.47	24.72	24.68	25	-4.42	20.05	20.30	20.26
	4 Tx Slots	23.31	23.79	23.61	24	-3.18	20.13	20.61	20.43
EDGE (8PSK)	1 Tx Slot	22.19	22.57	22.64	23	-9.19	13.00	13.38	13.45
	2 Tx Slots	22.49	22.59	22.68	23	-6.13	16.36	16.46	16.55
	3 Tx Slots	21.79	21.86	22.12	22.5	-4.42	17.37	17.44	17.70
	4 Tx Slots	20.88	20.93	21.46	21.5	-3.18	17.70	17.75	18.28

Note:

- 3) Frame-averaged output power was calculated from the measured burst-averaged output power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 4) As per KDB941225 D01v03, SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be selected to perform SAR evaluation in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be selected.

2. WCDMA Conducted Power

UMTS 1900MHz (Band II)		Average Power (dBm)			Tune-up Limit (dBm)
		9262CH	9400CH	9538CH	
WCDMA	12.2kbps RMC	19.26	19.38	19.42	19.5
	64kbps RMC	18.71	18.86	19.01	19.5
	144kbps RMC	18.51	18.63	18.84	19
	384kbps RMC	18.42	18.66	18.78	19
HSDPA	Subtest 1	18.41	18.8	18.89	19
	Subtest 2	18.86	18.86	18.78	19
	Subtest 3	18.74	18.77	18.76	19
	Subtest 4	18.71	18.91	18.74	19
HSUPA	Subtest 1	17.79	17.9	18.11	18.5
	Subtest 2	17.76	18.88	18.03	19
	Subtest 3	17.94	17.91	18.01	18.5
	Subtest 4	18.02	17.94	18	18.5
	Subtest 5	18.15	18.86	18.41	19

UMTS 850MHz (Band V)		Average Power (dBm)			Tune-up Limit (dBm)
		4132CH	4182CH	4233CH	
WCDMA	12.2kbps RMC	22.78	22.83	22.54	23
	64kbps RMC	22.18	22.38	22.04	22.5
	144kbps RMC	21.56	21.55	21.52	22
	384kbps RMC	21.19	21.67	21.47	22
HSDPA	Subtest 1	22.81	22.61	22.45	23
	Subtest 2	22.07	21.89	21.72	22.5
	Subtest 3	21.73	21.88	21.68	22
	Subtest 4	21.68	21.91	21.72	22
HSUPA	Subtest 1	21.5	21.36	21.16	21.5
	Subtest 2	21.5	21.35	21.17	21.5
	Subtest 3	21.16	21.36	21.17	21.5
	Subtest 4	21.14	21.31	21.12	21.5
	Subtest 5	21.91	21.67	21.44	22

3. Wi-Fi 2.4GHz

Mode	Data Rate	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)
				Avg. Pwr. (dBm)	Tune-up (dBm)	
802.11b	1Mbps	1	2412	16.75	17.	99.53
		6	2437	16.32		
		11	2462	16.05		
802.11g	6Mbps	1	2412	12.80	13	/
		6	2437	12.39		
		11	2462	12.24		
802.11n (20M)	HT0	1	2412	11.63	12	/
		6	2437	11.17		
		11	2462	10.96		

4. Duty Cycle

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
802.11b	8.39	8.43	0.9953	99.53	0.02	0.12	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

