

APPENDIX I: CONDUCTED POWERS FOR 41D (DL) WITH 41C (UL)

LTE Carrier Aggregation Conducted Powers for 41D (DL) with 41C (UL)

This device supports Uplink Carrier Aggregation with a maximum of two 20MHz component carriers and Downlink Carrier Aggregation with a maximum of three 20MHz component carriers for LTE B41 Power Class 3 only. Only intra-band contiguous channel configurations are supported for this operation.

Per FCC Guidance and KDB Publication 941225 D05A v01r02, the PCC uplink channel was selected following the configuration with the highest reported SAR under single carrier scenario for each exposure condition. Please see Section 11 for complete SAR measurement under single carrier scenario for each exposure condition. The PCC downlink channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation per 3GPP requirements. For contiguous intra-band carriers, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521.

Per FCC Guidance, additional SAR measurements for LTE ULCA with CA_41D DLCA active were not required since the maximum average output power for this configuration was not >0.25dB higher than either the maximum output power for ULCA with CA_41D DLCA inactive or the single carrier scenarios.

Table I-1
CA_41C ULCA Maximum Conducted Power with CA_41D DLCA enabled

PCC						SCC 1						SCC 2				Power				
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	SCC1 UL# RB	SCC1 UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	CA_41C ULCA Tx.Power with CA_41D DLCA Enabled (dBm)	CA_41C ULCA Tx.Power (dBm)	LTE Rel. 8 PCC Tx.Power (dBm)
LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	LTE B41	20	40146	2545.6	24.00	23.99	23.98

Table I-2
CA_41C ULCA Reduced Conducted Power with CA_41D DLCA enabled

PCC							SCC 1							SCC 2				Power			
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	SCC1 UL# RB	SCC1 UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	CA_41C ULCA Tx.Power with CA_41D DLCA Enabled (dBm)	CA_41C ULCA Tx.Power (dBm)	LTE Rel. 8 PCC Tx.Power (dBm)	
LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	LTE B41	20	40659	2596.9	22.01	22.07	22.27	



Figure I-1
Power Measurement Setup

FCC ID: A3LSMG955U	 SAR EVALUATION REPORT 	Approved by: Quality Manager
Test Dates: 12/26/16 – 02/08/17	DUT Type: Portable Handset	Page 1 of 1