



### A.1.3 Peak to average ratio

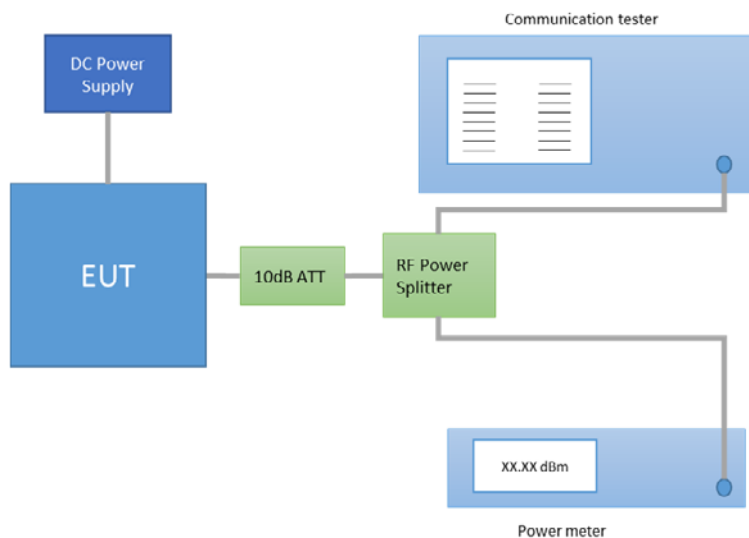
#### Standard references

BAND	FCC part	RSS part	Peak to average ratio limit
LTE 12, 13, 7	-	139-ch.6.4	< 13 dB
LTE 26	-	132-ch.5.4	< 13 dB
LTE 41	-	-	-

#### Test procedure

The setup below was used to measure the transmitted peak power. The antenna terminal of the EUT is connected to the peak power meter and the communication tester through an attenuator and a power splitter. This test was performed according to the KDB 971168 D01 § 5.1. Then the Peak to average power ratio is computed from the average power measured previously.

The transmitted peak power was measured on the worst case configuration selected from the chapter A.1.1 and on the middle channel.



**Results table**

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	Result [dB]	
LTE 12	FDD	QPSK	1.4	23095	707.5	1	6.50	
						3	6.58	
						6	7.26	
			1			6.22		
			8			7.14		
			15			7.00		
			1			6.47		
			12			7.12		
			25			6.71		
			1			6.40		
		25	6.37					
		50	6.48					
		16QAM	1.4			16QAM	1	7.49
							3	7.59
							6	8.17
			1				6.86	
			8				7.95	
			15				7.83	
			1				7.26	
			12				7.94	
25	7.34							
1	7.38							
25	7.14							
50	7.50							

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	Result [dB]	
LTE 13	FDD	QPSK	5	23230	782.0	1	5.35	
						12	5.99	
						25	5.62	
			1			5.32		
			25			5.87		
			50			5.96		
		16QAM	5			16QAM	1	6.23
							12	6.99
							25	6.58
			1				6.35	
			25				6.81	
			50				7.10	

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	Result [dB]
LTE 26	FDD	QPSK	1.4	26865	831.5	1	5.70
						3	5.69
						6	5.38
			3			1	5.64
						8	5.19
						15	5.07
			5			1	5.17
						12	5.27
						25	5.04
			10			1	5.52
						25	5.82
						50	5.33
		15	1			5.48	
			36			5.88	
			75			5.59	
		16QAM	1.4			1	6.29
						3	6.67
						6	6.34
			3			1	6.31
						8	6.24
						15	6.19
			5			1	6.08
						12	6.34
						25	5.92
10	1		6.17				
	25		6.42				
	50		6.40				
15	1	6.34					
	36	6.35					
	75	6.40					

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	Result [dB]
LTE 7	FDD	QPSK	5	21100	2535.0	1	5.06
						12	5.53
						25	5.58
			10			1	5.01
						25	5.56
						50	5.65
						1	5.28
						36	5.64
						75	5.26
						1	5.62
		20	50			5.73	
			100			5.18	
			1			5.74	
		16QAM	5			12	6.42
						25	6.31
						1	5.71
			10			25	6.63
						50	6.68
						1	6.13
			15			36	6.58
75	6.35						
1	6.59						
50	6.82						
20	100	6.38					

Band	Mode	Modulation	Bandwidth [MHz]	Channel Number	Frequency [MHz]	#RB	Result [dB]
LTE 41	TDD	QPSK	5	40620	2593.0	1	6.06
						12	6.34
						25	6.44
			10			1	5.94
						25	6.33
						50	6.40
						1	6.17
						36	6.37
						75	6.36
						1	6.40
		20	50			6.45	
			100			6.54	
			1			6.60	
		16QAM	5			12	7.30
						25	7.46
						1	7.06
			10			25	7.35
						50	7.46
						1	6.94
						36	7.31
15	75		7.35				
	1		7.95				
	50		7.37				
20	100	7.36					