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	Middle Cha	annel, fo = 707.5 MHz	
Temperature (℃)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
-10		-0.40	-0.000572
0		0.83	0.001184
10		3.53	0.004994
20	3.80	4.79	0.006773
30		-2.70	-0.003780
40		-3.49	-0.004880
50		1.26	0.001779
05	4.35	0.39	0.000551
25	3.23	-3.33	-0.004757

LTE Band 12

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

LTE Band 13

	Middle Channel, fo = 782 MHz						
Temperature (℃)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)				
-10		2.52	0.003230				
0		-0.62	-0.000789				
10		-3.12	-0.003988				
20	3.80	-2.03	-0.002598				
30		1.80	0.002298				
40		1.62	0.002061				
50		2.40	0.003073				
25	4.35	9.23	0.011837				
25	3.23	9.83	0.012608				

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	Middle Channel, fo = 1882.5 MHz						
Temperature (℃)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)				
-10		-4.35	-0.002350				
0		-5.82	-0.003146				
10		-9.03	-0.004795				
20	3.80	-5.46	-0.002903				
30		8.25	0.004312				
40		4.68	0.002444				
50		-2.29	-0.001216				
05	4.35	-2.02	-0.001090				
25	3.23	-2.76	-0.001492				

LTE Band 25

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

9. OCCUPIED BANDWIDTH

9.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

9.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

9.3 MEASUREMENT RESULT

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)		
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict	
	LCH	6	0	1.0832	PASS	
QPSK	MCH	6	0	1.0797	PASS	
	HCH	6	0	1.0830	PASS	
	LCH	6	0	1.0846	PASS	
16QAM	MCH	6	0	1.0847	PASS	
	HCH	6	0	1.0831	PASS	

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
	Channel	RB Confi	guration	Occupied Bandwidth(MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	15	0	2.6927	PASS		
QPSK	MCH	15	0	2.6888	PASS		
	HCH	15	0	2.6929	PASS		
	LCH	15	0	2.6857	PASS		
16QAM	MCH	15	0	2.6842	PASS		
	HCH	15	0	2.6883	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
	Channel	RB Confi	guration	Occupied Pandwidth(MHz)) (a wall a t	
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict	
	LCH	25	0	4.4833	PASS	
QPSK	MCH	25	0	4.4818	PASS	
	HCH	25	0	4.4860	PASS	
	LCH	25	0	4.4869	PASS	
16QAM	MCH	25	0	4.4844	PASS	
	HCH	25	0	4.4783	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Confi	guration	Occupied Pendwidth (MHz)		
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict	
	LCH	50	0	8.9579	PASS	
QPSK	MCH	50	0	8.9582	PASS	
	HCH	50	0	8.9625	PASS	
	LCH	50	0	8.9630	PASS	
16QAM	MCH	50	0	8.9575	PASS	
	HCH	50	0	8.9575	PASS	

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
	Channel	RB Confi	guration	Occupied Dendwidth (MUT)		
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict	
	LCH	75	0	13.423	PASS	
QPSK	MCH	75	0	13.427	13.372	
	HCH	75	0	13.476	PASS	
	LCH	75	0	13.433	PASS	
16QAM	MCH	75	0	13.428	PASS	
	HCH	75	0	13.441	PASS	

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)	Verdict		
Modulation	Charmer	Size	Offset		Verdict		
	LCH	100	0	17.913	PASS		
QPSK	MCH	100	0	17.886	PASS		
	HCH	100	0	17.920	PASS		
	LCH	100	0	17.886	PASS		
16QAM	MCH	100	0	17.892	PASS		
	HCH	100	0	17.918	PASS		

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)	Verdict	
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict	
	LCH	6	0	1.0812	PASS	
QPSK	MCH	6	0	1.0807	PASS	
	HCH	6	0	1.0836	PASS	
	LCH	6	0	1.0801	PASS	
16QAM	MCH	6	0	1.0810	PASS	
	HCH	6	0	1.0819	PASS	

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)		
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict	
	LCH	15	0	2.6850	PASS	
QPSK	MCH	15	0	2.6937	PASS	
	HCH	15	0	2.6896	PASS	
	LCH	15	0	2.6920	PASS	
16QAM	MCH	15	0	2.6866	PASS	
	HCH	15	0	2.6874	PASS	

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
	Channel	RB Confi	guration	Occupied Rendwidth(MHz)		
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict	
	LCH	25	0	4.4852	PASS	
QPSK	MCH	25	0	4.4823	PASS	
	HCH	25	0	4.4769	PASS	
	LCH	25	0	4.4826	PASS	
16QAM	MCH	25	0	4.4833	PASS	
	HCH	25	0	4.4757	PASS	

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Channel	Bandwidth:	10 MHz
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Channel Bandwidth: 10 MHz							
	Channel	RB Confi	guration	Occupied Rendwidth (MHz)			
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict		
	LCH	50	0	8.9560	PASS		
QPSK	MCH	50	0	8.9503	PASS		
	HCH	50	0	8.9473	PASS		
	LCH	50	0	8.9622	PASS		
16QAM	MCH	50	0	8.9583	PASS		
	HCH	50	0	8.9514	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Modulation	Channel	RB Confi	guration	Occupied Pendwidth (MHz)) (a wall a t		
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict		
	LCH	75	0	13.477	PASS		
QPSK	MCH	75	0	13.434	PASS		
	HCH	75	0	13.404	PASS		
	LCH	75	0	13.420	PASS		
16QAM	MCH	75	0	13.437	PASS		
	HCH	75	0	13.415	PASS		

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
	Channel	RB Confi	guration	Occupied Rendwidth (MHz)) (a walk a t		
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict		
	LCH	100	0	18.001	PASS		
QPSK	MCH	100	0	17.892	PASS		
	HCH	100	0	17.839	PASS		
	LCH	100	0	17.918	PASS		
16QAM	MCH	100	0	17.911	PASS		
	HCH	100	0	17.852	PASS		

Channel Bandwidth: 5MHz

Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)	Verdict		
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	verdict		
	LCH	25	0	4.4890	PASS		
QPSK	MCH	25	0	4.4822	PASS		
	HCH	25	0	4.4789	PASS		
	LCH	25	0	4.4904	PASS		
16QAM	MCH	25	0	4.4834	PASS		
	HCH	25	0	4.4807	PASS		

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Confi		Occupied Bandwidth (MHz)	Verdict		
		Size	Offset				
	LCH	50	0	8.9650	PASS		
QPSK	MCH	50	0	8.9519	PASS		
	HCH	50	0	8.9634	PASS		
	LCH	50	0	8.9806	PASS		
16QAM	MCH	50	0	8.9647	PASS		
	HCH	50	0	8.9678	PASS		

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Channel Bandwidth: 15 MHz							
Madulation	Channel	RB Confi	guration	Occupied Dendwidth (MI Iz)			
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict		
	LCH	75	0	13.427	PASS		
QPSK	MCH	75	0	13.435	PASS		
	HCH	75	0	13.429	PASS		
	LCH	75	0	13.436	PASS		
16QAM	MCH	75	0	13.442	PASS		
	HCH	75	0	13.430	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)) (and at		
Modulation	Charmer	Size	Offset		Verdict		
	LCH	100	0	17.865	PASS		
QPSK	MCH	100	0	17.900	PASS		
	HCH	100	0	17.874	PASS		
	LCH	100	0	17.893	PASS		
16QAM	MCH	100	0	17.892	PASS		
	HCH	100	0	17.882	PASS		

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)			
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict		
	LCH	6	0	1.0829	PASS		
QPSK	MCH	6	0	1.0867	PASS		
	HCH	6	0	1.0842	PASS		
	LCH	6	0	1.0827	PASS		
16QAM	MCH	6	0	1.0859	PASS		
	HCH	6	0	1.0851	PASS		

Channel Bandwidth: 3 MHz

Channel Bandwidth:3 MHz							
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)	Verdict		
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	verdict		
	LCH	15	0	2.6893	PASS		
QPSK	MCH	15	0	2.6917	PASS		
	HCH	15	0	2.6870	PASS		
	LCH	15	0	2.6917	PASS		
16QAM	MCH	15	0	2.6969	PASS		
	HCH	15	0	2.6939	PASS		

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Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration	Occupied Rendwidth(MHz)			
Modulation	Channel	Size	Offset	Occupied Bandwidth(MHz)	Verdict		
	LCH	25	0	4.4890	PASS		
QPSK	MCH	25	0	4.4883	PASS		
	HCH	25	0	4.4944	PASS		
	LCH	25	0	4.4943	PASS		
16QAM	MCH	25	0	4.4962	PASS		
	HCH	25	0	4.4865	PASS		

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Confi	guration	Occupied Dendwidth (MUT)			
Modulation	Channel	Size	Offset	Occupied Bandwidth (MHz)	Verdict		
	LCH	50	0	8.9956	PASS		
QPSK	MCH	50	0	8.9531	PASS		
	HCH	50	0	8.9281	PASS		
	LCH	50	0	8.9965	PASS		
16QAM	MCH	50	0	8.9406	PASS		
	HCH	50	0	8.9286	PASS		

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	Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth(MHz)				
	Channel	Size	Offset		Verdict			
	LCH	25	0	4.4861	PASS			
QPSK	MCH	25	0	4.4816	PASS			
	HCH	25	0	4.4874	PASS			
	LCH	25	0	4.4932	PASS			
16QAM	MCH	25	0	4.4882	PASS			
	HCH	25	0	4.4833	PASS			

LTE Band 13 Channel Bandwidth: 5 MHz

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)	Verdict		
wooulation	Channel	Size	Offset				
	LCH	50	0	8.9879	PASS		
QPSK	MCH	50	0	8.9842	PASS		
	HCH	50	0	8.9841	PASS		
	LCH	50	0	8.9758	PASS		
16QAM	MCH	50	0	8.9851	PASS		
	HCH	50	0	8.9801	PASS		

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth(MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	6	0	1.0819	PASS		
QPSK	MCH	6	0	1.0794	PASS		
	HCH	6	0	1.0813	PASS		
	LCH	6	0	1.0842	PASS		
16QAM	MCH	6	0	1.0810	PASS		
	HCH	6	0	1.0836	PASS		

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth(MHz)) (a nali at		
Modulation	Channel	Size	Offset		Verdict		
	LCH	15	0	2.6908	PASS		
QPSK	MCH	15	0	2.6913	PASS		
	HCH	15	0	2.6860	PASS		
	LCH	15	0	2.6885	PASS		
16QAM	MCH	15	0	2.6907	PASS		
	HCH	15	0	2.6893	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth(MHz)) (a wall a t		
wooulation	Channel	Size	Offset		Verdict		
	LCH	25	0	4.4869	PASS		
QPSK	MCH	25	0	4.4777	PASS		
	HCH	25	0	4.4809	PASS		
	LCH	25	0	4.4851	PASS		
16QAM	MCH	25	0	4.4832	PASS		
	HCH	25	0	4.4819	PASS		

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Channel	Bandwidth:	10 MHz
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Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	50	0	8.9678	PASS		
QPSK	MCH	50	0	8.9502	PASS		
	HCH	50	0	8.9291	PASS		
	LCH	50	0	8.9618	PASS		
16QAM	MCH	50	0	8.9444	PASS		
	HCH	50	0	8.9299	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	75	0	13.433	PASS		
QPSK	MCH	75	0	13.423	PASS		
	НСН	75	0	13.420	PASS		
	LCH	75	0	13.432	PASS		
16QAM	MCH	75	0	13.430	PASS		
	HCH	75	0	13.397	PASS		

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Confi	guration	Occupied Bandwidth (MHz)	Verdict		
wooulation	Channel	Size	Offset				
	LCH	100	0	17.904	PASS		
QPSK	MCH	100	0	17.865	PASS		
	HCH	100	0	17.879	PASS		
	LCH	100	0	17.901	PASS		
16QAM	MCH	100	0	17.890	PASS		
	HCH	100	0	17.887	PASS		

Note: Please refers to Appendix B for compliance test plots for Occupied Bandwidth (99%)

10. EMISSION BANDWIDTH

10.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

10.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

10.3 MEASUREMENT RESULT

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth	Verdict		
wouldion	Channel	Size	Offset	(MHz)	verdict		
	LCH	6	0	1.338	PASS		
QPSK	MCH	6	0	1.337	PASS		
	HCH	6	0	1.398	PASS		
	LCH	6	0	1.372	PASS		
16QAM	MCH	6	0	1.440	PASS		
	HCH	6	0	1.398	PASS		

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Modulation	Channel	RB Confi	guration		Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	15	0	2.947	PASS		
QPSK	MCH	15	0	2.912	PASS		
	HCH	15	0	2.928	PASS		
	LCH	15	0	2.952	PASS		
16QAM	MCH	15	0	2.969	PASS		
	HCH	15	0	2.939	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
wooulation	Channel	Size	Offset				
	LCH	25	0	4.915	PASS		
QPSK	MCH	25	0	4.917	PASS		
	HCH	25	0	4.907	PASS		
	LCH	25	0	4.934	PASS		
16QAM	MCH	25	0	4.961	PASS		
	HCH	25	0	4.957	PASS		

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Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	50	0	9.666	PASS		
QPSK	MCH	50	0	9.717	PASS		
	HCH	50	0	9.775	PASS		
	LCH	50	0	9.857	PASS		
16QAM	MCH	50	0	9.813	PASS		
	HCH	50	0	9.726	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Modulation	Channel	RB Confi	guration		Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	75	0	14.33	PASS		
QPSK	MCH	75	0	14.35	PASS		
	HCH	75	0	14.49	PASS		
	LCH	75	0	14.19	PASS		
16QAM	MCH	75	0	14.44	PASS		
	HCH	75	0	14.62	PASS		

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Confi	guration				
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict		
	LCH	100	0	18.79	PASS		
QPSK	MCH	100	0	18.84	PASS		
	HCH	100	0	18.93	PASS		
	LCH	100	0	18.77	PASS		
16QAM	MCH	100	0	19.00	PASS		
	HCH	100	0	18.91	PASS		

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	6	0	1.354	PASS		
QPSK	MCH	6	0	1.312	PASS		
	HCH	6	0	1.345	PASS		
	LCH	6	0	1.440	PASS		
16QAM	MCH	6	0	1.346	PASS		
	HCH	6	0	1.340	PASS		

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Modulation	Channel	RB Confi	guration		Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	15	0	2.910	PASS		
QPSK	MCH	15	0	2.934	PASS		
	HCH	15	0	2.925	PASS		
	LCH	15	0	2.955	PASS		
16QAM	MCH	15	0	2.948	PASS		
	HCH	15	0	2.942	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Modulation	Channel	RB Confi	guration				
wooulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict		
	LCH	25	0	4.958	PASS		
QPSK	MCH	25	0	4.929	PASS		
	HCH	25	0	4.935	PASS		
	LCH	25	0	4.918	PASS		
16QAM	MCH	25	0	4.910	PASS		
	HCH	25	0	4.894	PASS		

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Channel	Bandwidth:	10 MHz
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Channel Bandwidth: 10 MHz							
Madulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	50	0	9.605	PASS		
QPSK	MCH	50	0	9.630	PASS		
	HCH	50	0	9.729	PASS		
	LCH	50	0	9.701	PASS		
16QAM	MCH	50	0	9.848	PASS		
	HCH	50	0	9.687	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	75	0	13.48	PASS		
QPSK	MCH	75	0	14.41	PASS		
	HCH	75	0	14.35	PASS		
	LCH	75	0	14.49	PASS		
16QAM	MCH	75	0	14.32	PASS		
	HCH	75	0	14.26	PASS		

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	100	0	18.00	PASS		
QPSK	MCH	100	0	18.79	PASS		
	HCH	100	0	18.75	PASS		
	LCH	100	0	18.92	PASS		
16QAM	MCH	100	0	18.88	PASS		
	HCH	100	0	18.80	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	25	0	4.999	PASS		
QPSK	MCH	25	0	4.994	PASS		
	HCH	25	0	4.921	PASS		
	LCH	25	0	4.986	PASS		
16QAM	MCH	25	0	4.974	PASS		
	HCH	25	0	4.962	PASS		

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset				
	LCH	50	0	12.00	PASS		
QPSK	MCH	50	0	9.731	PASS		
	HCH	50	0	9.738	PASS		
	LCH	50	0	11.840	PASS		
16QAM	MCH	50	0	9.726	PASS		
	HCH	50	0	9.746	PASS		

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Channel Bandwidth: 15MHz						
Madulation	Channel	RB Confi	guration	26dD Dondwidth (MUT)		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict	
	LCH	75	0	18.87	PASS	
QPSK	MCH	75	0	14.53	PASS	
	HCH	75	0	14.43	PASS	
	LCH	75	0	17.98	PASS	
16QAM	MCH	75	0	14.63	PASS	
	HCH	75	0	14.47	PASS	

Channel Bandwidth: 15 MHz

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20MHz							
Modulation	Channel	RB Confi	guration	26dB Bandwidth (MHz)) (a nali a t		
Modulation	Channel	Size	Offset		Verdict		
	LCH	100	0	19.29	PASS		
QPSK	MCH	100	0	18.85	PASS		
	HCH	100	0	18.86	PASS		
	LCH	100	0	19.61	PASS		
16QAM	MCH	100	0	18.95	PASS		
	HCH	100	0	18.85	PASS		

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	6	0	1.354	PASS		
QPSK	MCH	6	0	1.441	PASS		
	HCH	6	0	1.378	PASS		
	LCH	6	0	1.363	PASS		
16QAM	MCH	6	0	1.345	PASS		
	HCH	6	0	1.386	PASS		

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MUz)			
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict		
	LCH	15	0	2.925	PASS		
QPSK	MCH	15	0	2.999	PASS		
	HCH	15	0	2.950	PASS		
	LCH	15	0	2.952	PASS		
16QAM	MCH	15	0	2.979	PASS		
	HCH	15	0	2.967	PASS		

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Channel Bandwidth: 5 MHz

Channel Bandwidth: 5MHz						
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict	
	LCH	25	0	4.874	PASS	
QPSK	MCH	25	0	4.957	PASS	
	HCH	25	0	4.948	PASS	
	LCH	25	0	4.951	PASS	
16QAM	MCH	25	0	4.994	PASS	
	HCH	25	0	4.948	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10MHz						
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict	
	LCH	50	0	9.990	PASS	
QPSK	MCH	50	0	9.662	PASS	
	HCH	50	0	9.711	PASS	
	LCH	50	0	9.847	PASS	
16QAM	MCH	50	0	9.690	PASS	
	HCH	50	0	9.604	PASS	

LTE BAND 13

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)	Verdict		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)			
	LCH	25	0	5.001	PASS		
QPSK	MCH	25	0	4.904	PASS		
	HCH	25	0	4.962	PASS		
	LCH	25	0	4.977	PASS		
16QAM	MCH	25	0	4.960	PASS		
	HCH	25	0	4.975	PASS		

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10MHz						
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)		
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict	
	LCH	50	0	10.07	PASS	
QPSK	MCH	50	0	9.850	PASS	
	HCH	50	0	10.07	PASS	
	LCH	50	0	9.938	PASS	
16QAM	MCH	50	0	9.881	PASS	
	HCH	50	0	9.852	PASS	

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Confi	guration	26dP Rondwidth (MHz)	Verdict	
wooulation	Channel	Size	Offset	26dB Bandwidth (MHz)		
	LCH	6	0	1.313	PASS	
QPSK	MCH	6	0	1.337	PASS	
	HCH	6	0	1.303	PASS	
	LCH	6	0	1.388	PASS	
16QAM	MCH	6	0	1.371	PASS	
	HCH	6	0	1.366	PASS	

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Modulation	Channel	RB Confi	guration	26dP Pondwidth (MHz)			
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)	Verdict		
	LCH	15	0	2.934	PASS		
QPSK	MCH	15	0	2.918	PASS		
	HCH	15	0	2.934	PASS		
	LCH	15	0	2.941	PASS		
16QAM	MCH	15	0	2.923	PASS		
	HCH	15	0	2.935	PASS		

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Confi	guration	OcdD Dondwidth (MUT)	Verdict	
Modulation	Channel	Size	Offset	26dB Bandwidth (MHz)		
	LCH	25	0	4.934	PASS	
QPSK	MCH	25	0	4.915	PASS	
	HCH	25	0	4.940	PASS	
	LCH	25	0	4.920	PASS	
16QAM	MCH	25	0	4.956	PASS	
	HCH	25	0	4.932	PASS	

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Channel Bandwidth: 10 MHz								
Modulation	Channel	RB Configuration		26dD Dondwidth (MUT)	Vardiat			
		Size	Offset	26dB Bandwidth (MHz)	Verdict			
QPSK	LCH	50	0	9.846	PASS			
	MCH	50	0	9.626	PASS			
	HCH	50	0	9.632	PASS			
16QAM	LCH	50	0	9.780	PASS			
	MCH	50	0	9.824	PASS			
	HCH	50	0	9.694	PASS			

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz								
Modulation	Channel	RB Configuration		26dP Bondwidth (MHz)	Verdict			
		Size	Offset	26dB Bandwidth (MHz)	verdict			
QPSK	LCH	75	0	14.62	PASS			
	MCH	75	0	14.77	PASS			
	НСН	75	0	14.33	PASS			
16QAM	LCH	75	0	14.65	PASS			
	MCH	75	0	14.60	PASS			
	HCH	75	0	14.40	PASS			

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz								
Modulation	Channel	RB Configuration		26dD Dandwidth (MUT)	Vardiat			
		Size	Offset	26dB Bandwidth (MHz)	Verdict			
QPSK	LCH	100	0	18.85	PASS			
	MCH	100	0	18.80	PASS			
	HCH	100	0	18.80	PASS			
16QAM	LCH	100	0	18.81	PASS			
	MCH	100	0	18.81	PASS			
	HCH	100	0	18.82	PASS			

Note: Please refers to Appendix B for compliance test plots for emission bandwidth (-26dBc)

11. BAND EDGE

11.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

11.2 PROVISIONS APPLICABLE

As Specified in FCC rules of §2.1051 §24.238(a) §27.53(g) §27.53(h) §27.53(m) KDB 971168 D01v03 – Section 6.0

11.3 MEASUREMENT RESULT

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequency. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

For Band 7:

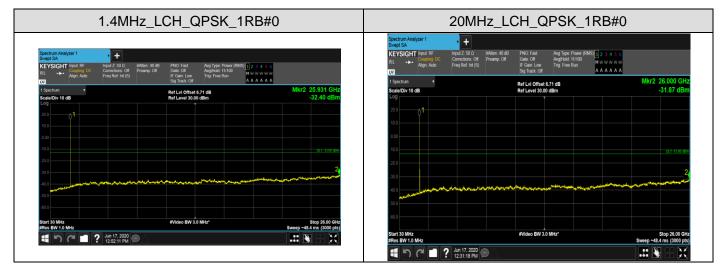
(i) 40 + 10 log10 p from the channel edges to 5 MHz away

(ii) 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

(iii) 55 + 10 log10 p at X MHz and beyond from the channel edges

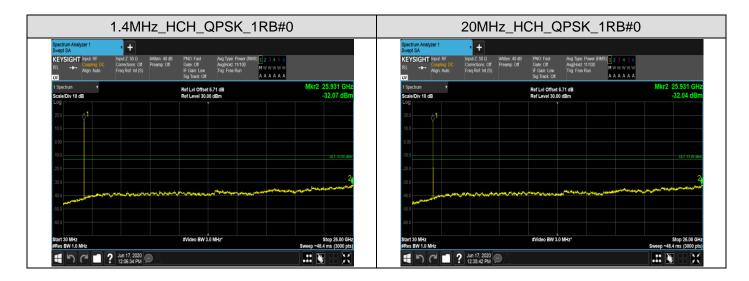
Please refers to Appendix C for compliance test plots for band edge

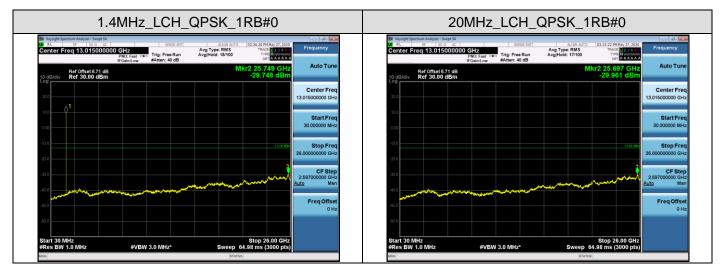
APPENDIX A TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

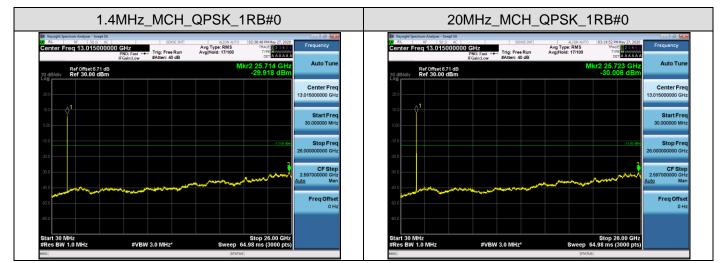


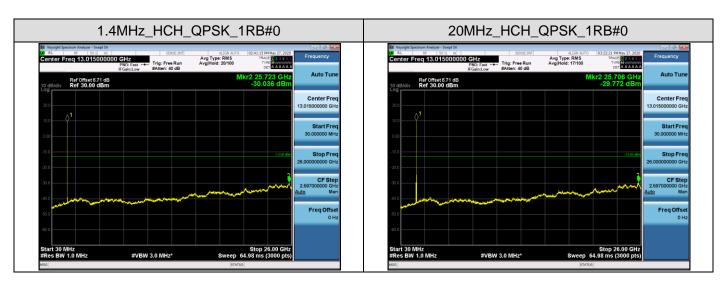
LTE BAND 2

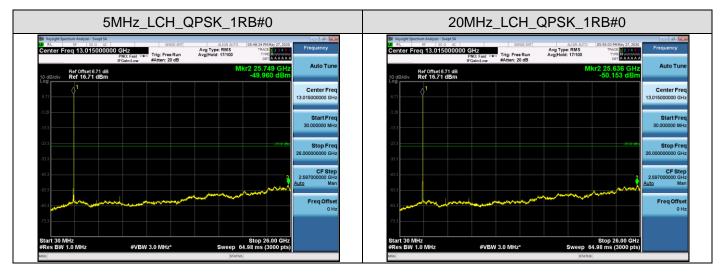


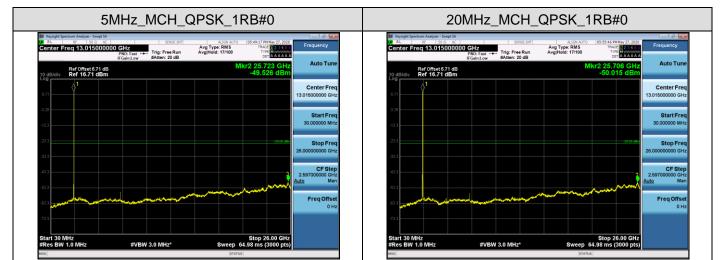




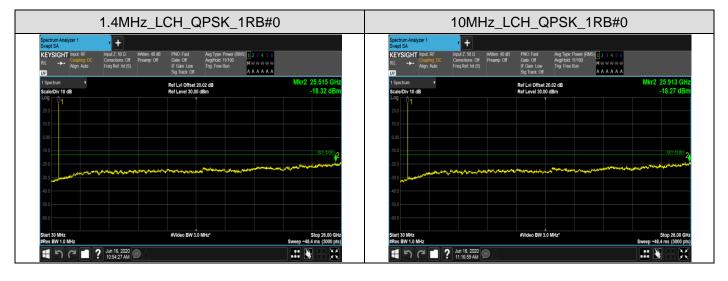




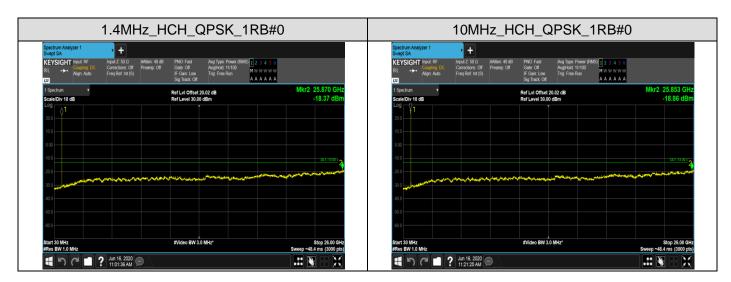


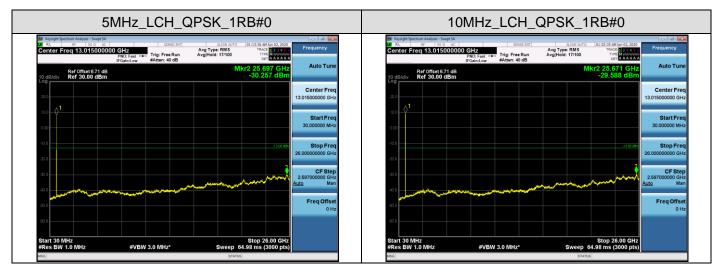


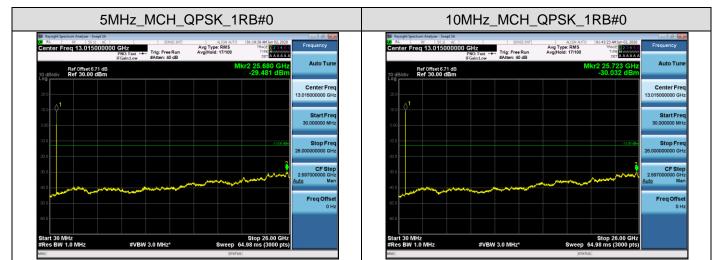


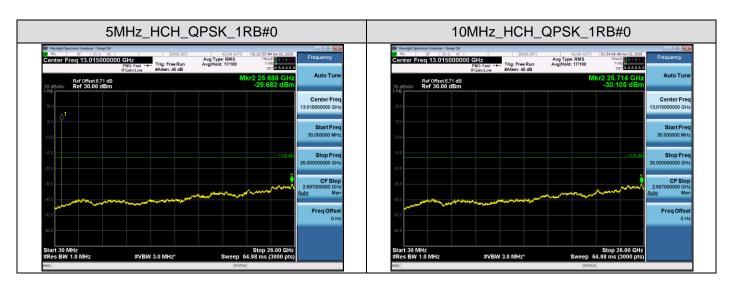




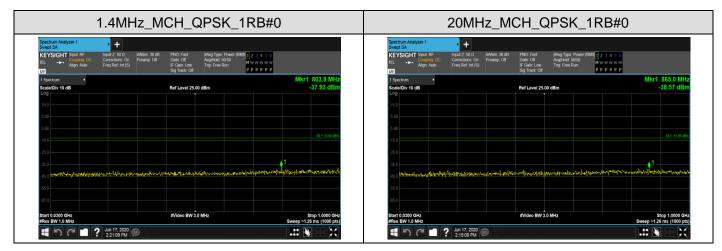


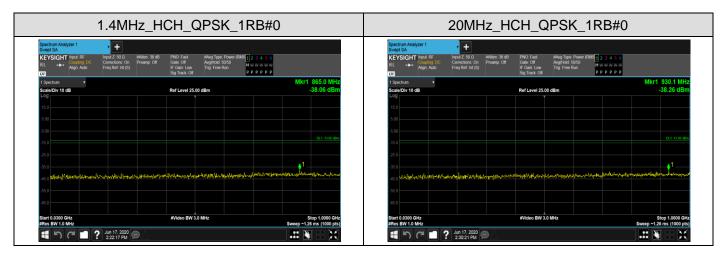








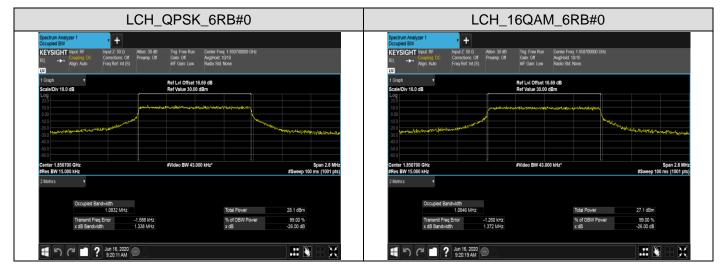




Note: 1. Below 30MHZ no Spurious found and Above is the worst mode data.

2. As no emission found in standby or receive mode, no recording in this report.

APPENDIX B TEST PLOTS FOR OCCUPIED BANDWIDTH (99%) EMISSION BANDWIDTH (-26dBC) LTE Band 2 Channel Bandwidth: 1.4 MHz





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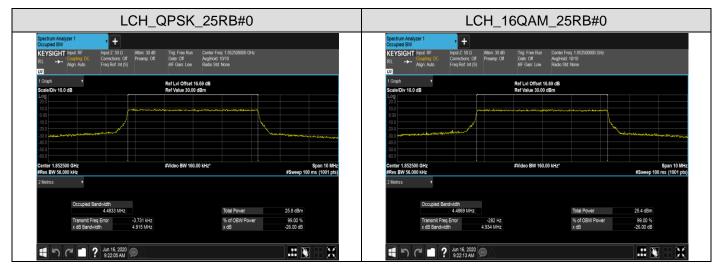


Channel Bandwidth: 3 MHz





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Channel Bandwidth: 5 MHz





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Channel Bandwidth: 10 MHz



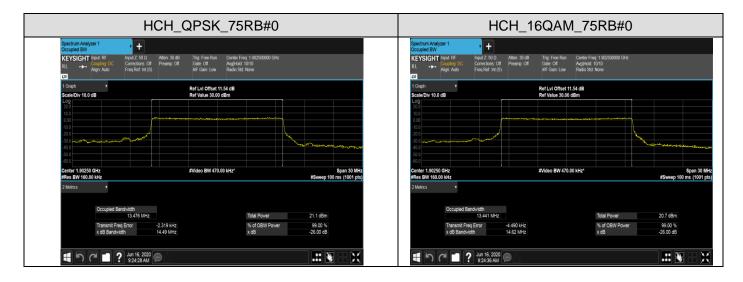


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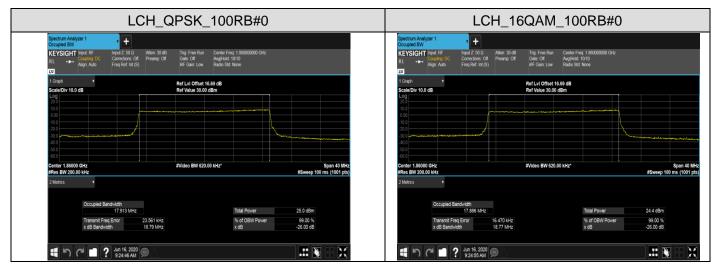


Channel Bandwidth: 15 MHz





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Channel Bandwidth: 20 MHz



