



			Channel E	Bandwidth: 10 MHz		
Modulation	Channel	RB Configuration		Occupied	-26dB	
		Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict
100	LCH	50	0	8.9616	9.551	PASS
QPSK	MCH	50	0	8.9653	9.572	PASS
	HCH	50	0	8.9622	9.545	PASS
16QAM	LCH	50	0	8.9614	9.550	PASS
	MCH	50	0	8.9600	9.522	PASS
	HCH	50	0	8.9627	9.547	PASS

Channel Bandwidth: 15 MHz							
		RB Configuration		Occupied	-26dB		
Modulation	Channel	Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict	
®	LCH	75	0	13.500	14.31	PASS	
QPSK	MCH	75	0	13.442	14.31	PASS	
	HCH	75	0	13.444	14.35	PASS	
16QAM	LCH	75	0	13.475	14.26	PASS	
	MCH	75	0	13.443	14.26	PASS	
	HCH	75	0	13.438	14.29	PASS	

Channel Bandwidth: 20 MHz							
		RB Configuration		Occupied	-26dB		
Modulation	Channel	Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict	
9 (6	LCH	100	0	17.993	18.98	PASS	
QPSK	MCH	100	0	17.896	18.93	PASS	
	HCH	100	0	17.897	19.01	PASS	
10°	LCH	100	0	17.987	19.00	PASS	
16QAM	MCH	100	0	17.899	18.96	PASS	
8	HCH	100	0	17.905	18.98	PASS	

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LTE Band 71

Channel Bandwidth: 5 MHz								
		RB Configuration		Occupied	-26dB			
Modulation	Channel	Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict		
100	LCH	25	0	4.4972	4.905	PASS		
QPSK	MCH	25	0	4.4889	4.887	PASS		
®	HCH	25	0	4.4962	4.902	PASS		
GU .	LCH	25	0	4.4954	4.894	PASS		
16QAM	MCH	25	0	4.4935	4.872	PASS		
	HCH	25	0	4.4998	4.864	PASS		

			Channel B	andwidth: 10 MHz		
		RB Configuration		Occupied	-26dB	
Modulation	Channel	Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict
	LCH	50	0	8.9642	9.593	PASS
QPSK	MCH	50	0	8.9382	9.526	PASS
	HCH	50	0	8.9623	9.550	PASS
16QAM	LCH	50	0	8.9559	9.525	PASS
	MCH	50	0	8.9447	9.502	PASS
	HCH	50	0	8.9472	9.541	PASS

Channel Bandwidth: 15 MHz							
	Channel	RB Configuration		Occupied	-26dB		
Modulation		Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict	
<i>a</i> .C	LCH	75	0	13.479	14.29	PASS	
QPSK	MCH	75	0	13.381	14.22	PASS	
®	HCH	75	0	13.441	14.36	PASS	
	LCH	75	0	13.451	14.23	PASS	
16QAM	MCH	75	0	13.383	14.22	PASS	
	HCH	75	0 @	13.434	14.27	PASS	

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			Channel Ba	andwidth: 20 MHz		
		RB Configuration		Occupied	-26dB	
Modulation	Channel	Size	Offset	Bandwidth (MHz)	Bandwidth (MHz)	Verdict
10	LCH	100	0	17.867	18.92	PASS
QPSK	MCH	100	0	17.806	18.90	PASS
	HCH	100	0	17.854	18.92	PASS
	LCH	100	0	17.864	18.91	PASS
16QAM	MCH	100	0	17.799	18.88	PASS
	HCH	100	0	17.862	18.93	PASS

Note: Please refers to Appendix B for compliance test plots for Occupied Bandwidth & Emission Bandwidth.

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14. BAND EDGE

14.1 PROVISIONS APPLICABLE

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 frequencies. 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.

14.2 MEASUREMENT METHOD

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

TEST NOTE

§90.543(e)

- 1. On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- 2. On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- 3. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
- 4. Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measure ment instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- 5. Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwid th of 30kHz may be employed.

§27.53(m)

Equipment shall comply with the following unwanted emission limits:

- a) for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p
- b) for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:40 + 10 log10 p from the channel

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edges to 5 MHz away 43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and 55 + 10 log10 p at X MHz and beyond from the channel edges In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels(low and high operational frequency range.) The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

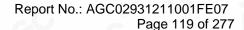
14.3 MEASUREMENT METHOD



14.4 MEASUREMENT RESULT

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

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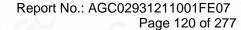




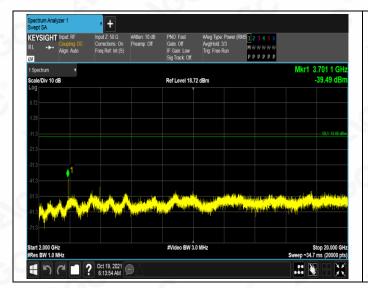
APPENDIX A TEST PLOTS FOR SPURIOUS EMISSIONS AT ANTENNA TERMINALS LTE BAND 2

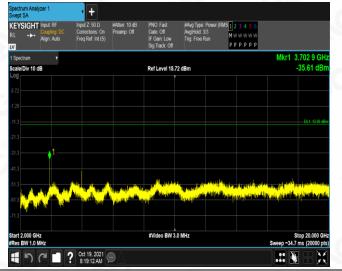


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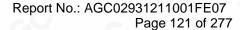




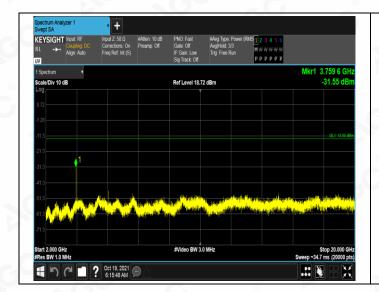


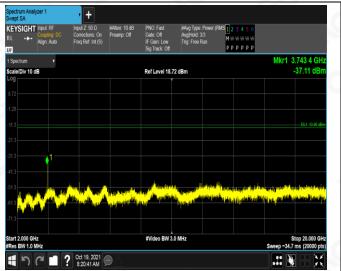


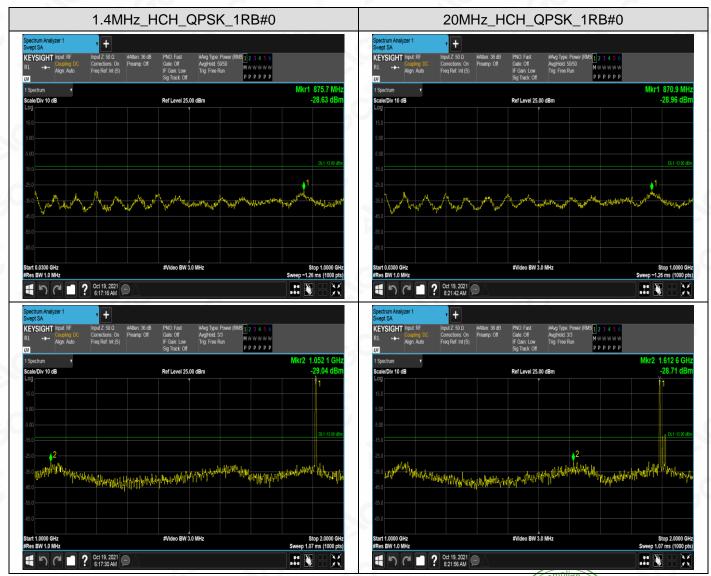
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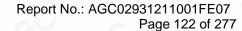




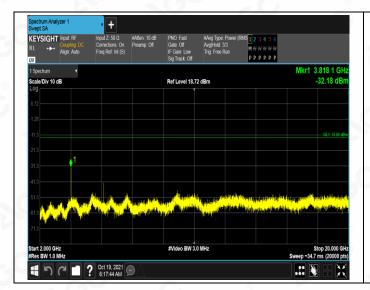


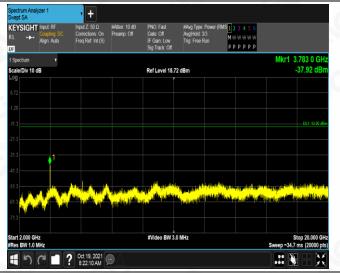


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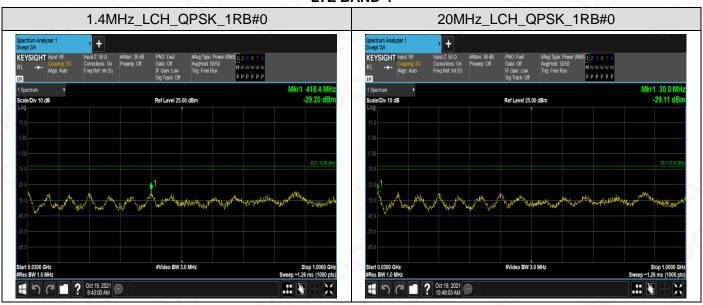




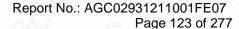




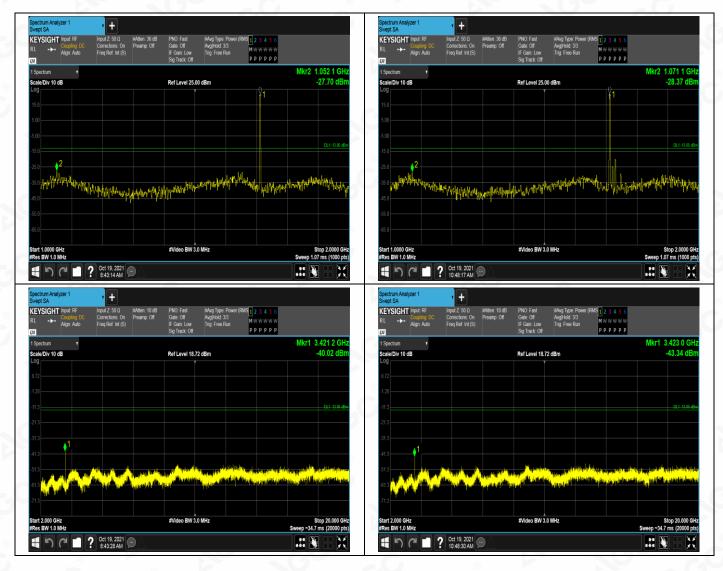
LTE BAND 4



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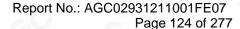




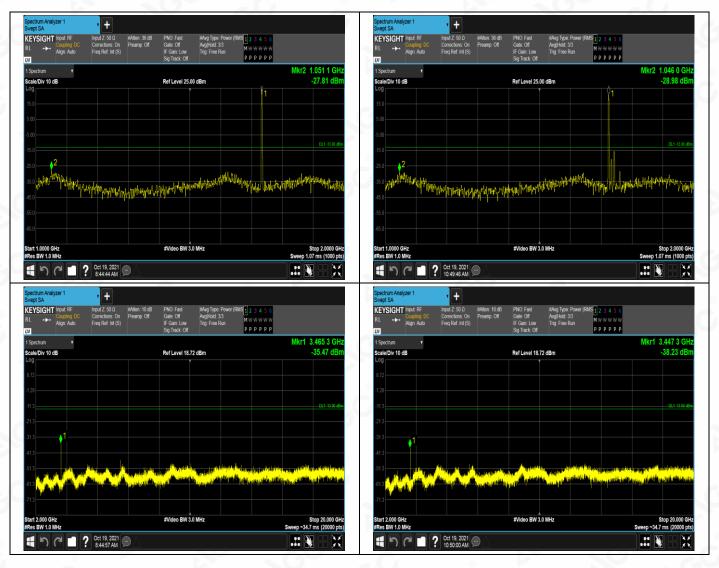
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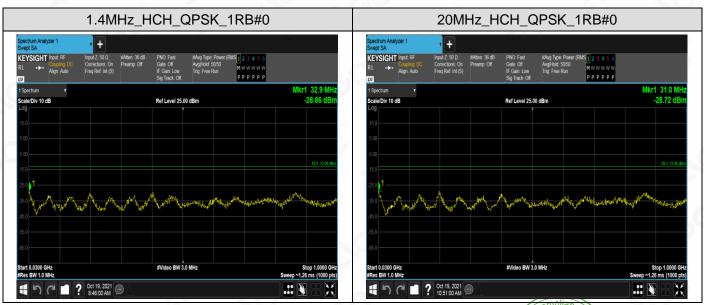
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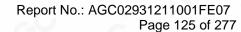




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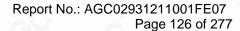
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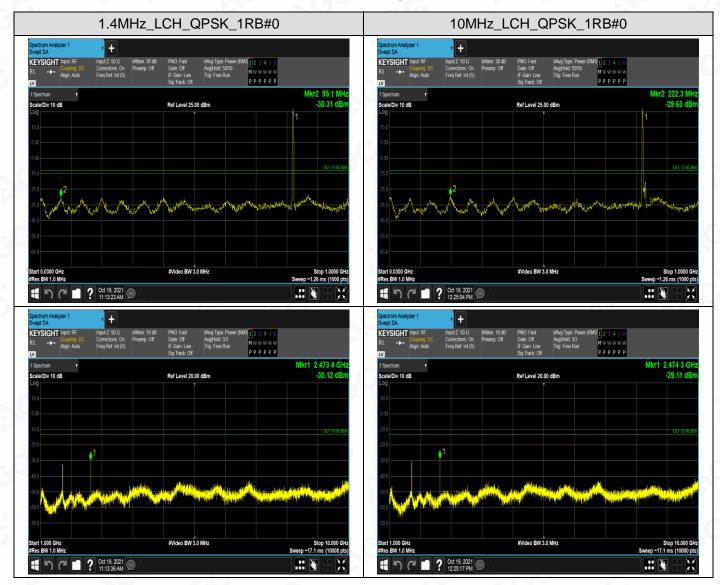


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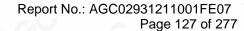




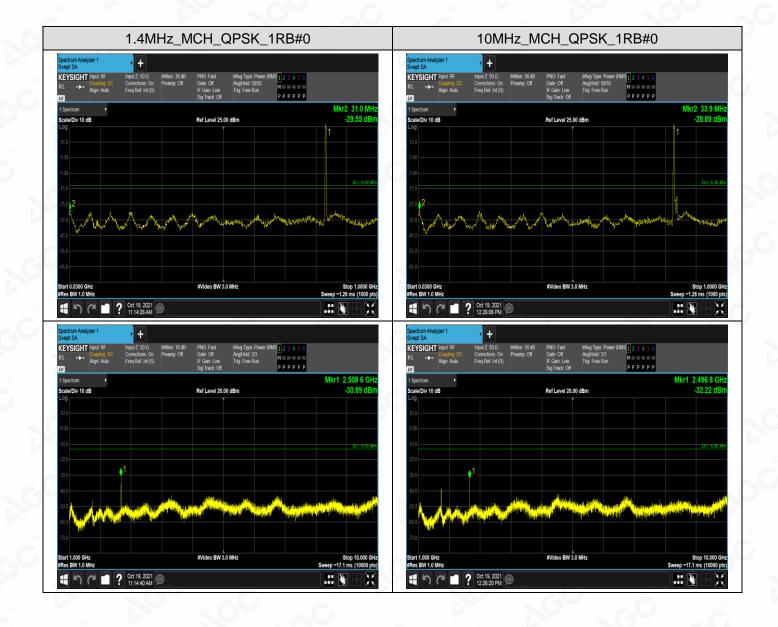
LTE BAND 5



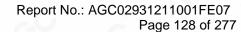
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