

### LTE Band 4

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0889	1.250	PASS
	MCH	6	0	1.0892	1.251	PASS
	HCH	6	0	1.0900	1.254	PASS
16QAM	LCH	6	0	1.0898	1.260	PASS
	MCH	6	0	1.0890	1.259	PASS
	HCH	6	0	1.0906	1.258	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6838	2.861	PASS
	MCH	15	0	2.6914	2.851	PASS
	HCH	15	0	2.6911	2.863	PASS
16QAM	LCH	15	0	2.6857	2.850	PASS
	MCH	15	0	2.6848	2.838	PASS
	HCH	15	0	2.6883	2.863	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4949	4.826	PASS
	MCH	25	0	4.4992	4.823	PASS
	HCH	25	0	4.4935	4.798	PASS
16QAM	LCH	25	0	4.5051	4.784	PASS
	MCH	25	0	4.5016	4.818	PASS
	HCH	25	0	4.4956	4.822	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9906	9.528	PASS
	MCH	50	0	8.9836	9.511	PASS
	HCH	50	0	8.9799	9.522	PASS
16QAM	LCH	50	0	8.9849	9.497	PASS
	MCH	50	0	8.9779	9.510	PASS
	HCH	50	0	8.9809	9.504	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.493	14.26	PASS
	MCH	75	0	13.482	14.23	PASS
	HCH	75	0	13.453	14.26	PASS
16QAM	LCH	75	0	13.481	14.26	PASS
	MCH	75	0	13.464	14.24	PASS
	HCH	75	0	13.449	14.24	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.985	18.97	PASS
	MCH	100	0	17.944	18.96	PASS
	HCH	100	0	17.923	18.94	PASS
16QAM	LCH	100	0	17.965	18.97	PASS
	MCH	100	0	17.946	18.94	PASS
	HCH	100	0	17.942	18.94	PASS

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### LTE Band 5

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0871	1.247	PASS
	MCH	6	0	1.0889	1.248	PASS
	HCH	6	0	1.0905	1.259	PASS
16QAM	LCH	6	0	1.0883	1.263	PASS
	MCH	6	0	1.0902	1.259	PASS
	HCH	6	0	1.0899	1.264	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6913	2.856	PASS
	MCH	15	0	2.6873	2.855	PASS
	HCH	15	0	2.6967	2.860	PASS
16QAM	LCH	15	0	2.6858	2.841	PASS
	MCH	15	0	2.6859	2.847	PASS
	HCH	15	0	2.6894	2.859	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4994	4.811	PASS
	MCH	25	0	4.4963	4.815	PASS
	HCH	25	0	4.4963	4.804	PASS
16QAM	LCH	25	0	4.5025	4.787	PASS
	MCH	25	0	4.5029	4.809	PASS
	HCH	25	0	4.5054	4.837	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9932	9.515	PASS
	MCH	50	0	8.9734	9.524	PASS
	HCH	50	0	8.9869	9.512	PASS
16QAM	LCH	50	0	8.9938	9.526	PASS
	MCH	50	0	8.9742	9.516	PASS
	HCH	50	0	8.9711	9.515	PASS

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### LTE Band 7

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4962	4.816	PASS
	MCH	25	0	4.4969	4.804	PASS
	HCH	25	0	4.4955	4.822	PASS
16QAM	LCH	25	0	4.5035	4.792	PASS
	MCH	25	0	4.4973	4.833	PASS
	HCH	25	0	4.5051	4.802	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9880	9.550	PASS
	MCH	50	0	8.9945	9.526	PASS
	HCH	50	0	8.9873	9.538	PASS
16QAM	LCH	50	0	8.9716	9.518	PASS
	MCH	50	0	8.9912	9.518	PASS
	HCH	50	0	8.9759	9.509	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.481	14.27	PASS
	MCH	75	0	13.494	14.28	PASS
	HCH	75	0	13.478	14.28	PASS
16QAM	LCH	75	0	13.463	14.24	PASS
	MCH	75	0	13.487	14.26	PASS
	HCH	75	0	13.464	14.25	PASS

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Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.916	18.93	PASS
	MCH	100	0	17.982	19.01	PASS
	HCH	100	0	17.930	18.96	PASS
16QAM	LCH	100	0	17.913	18.93	PASS
	MCH	100	0	17.995	19.00	PASS
	HCH	100	0	17.929	18.94	PASS

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

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### LTE Band 12

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0894	1.256	PASS
	MCH	6	0	1.0886	1.252	PASS
	HCH	6	0	1.0896	1.252	PASS
16QAM	LCH	6	0	1.0886	1.260	PASS
	MCH	6	0	1.0850	1.256	PASS
	HCH	6	0	1.0890	1.266	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6854	2.851	PASS
	MCH	15	0	2.6941	2.859	PASS
	HCH	15	0	2.6895	2.864	PASS
16QAM	LCH	15	0	2.6879	2.848	PASS
	MCH	15	0	2.6901	2.860	PASS
	HCH	15	0	2.6922	2.850	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5040	4.966	PASS
	MCH	25	0	4.5004	4.987	PASS
	HCH	25	0	4.5057	4.950	PASS
16QAM	LCH	25	0	4.5081	4.907	PASS
	MCH	25	0	4.4982	4.949	PASS
	HCH	25	0	4.5112	4.953	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9670	9.599	PASS
	MCH	50	0	8.9700	9.617	PASS
	HCH	50	0	8.9894	9.563	PASS
16QAM	LCH	50	0	8.9810	9.547	PASS
	MCH	50	0	8.9664	9.513	PASS
	HCH	50	0	8.9905	9.590	PASS

### LTE Band 17

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5000	4.914	PASS
	MCH	25	0	4.5058	4.941	PASS
	HCH	25	0	4.5046	4.979	PASS
16QAM	LCH	25	0	4.4983	4.961	PASS
	MCH	25	0	4.5111	4.966	PASS
	HCH	25	0	4.5076	4.924	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9800	9.535	PASS
	MCH	50	0	9.0001	9.622	PASS
	HCH	50	0	9.0001	9.562	PASS
16QAM	LCH	50	0	8.9772	9.530	PASS
	MCH	50	0	8.9779	9.537	PASS
	HCH	50	0	8.9947	9.580	PASS

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### LTE Band 25

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0883	1.261	PASS
	MCH	6	0	1.0892	1.258	PASS
	HCH	6	0	1.0916	1.259	PASS
16QAM	LCH	6	0	1.0883	1.268	PASS
	MCH	6	0	1.0869	1.257	PASS
	HCH	6	0	1.0863	1.242	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6866	2.843	PASS
	MCH	15	0	2.6909	2.858	PASS
	HCH	15	0	2.6896	2.861	PASS
16QAM	LCH	15	0	2.6856	2.852	PASS
	MCH	15	0	2.6857	2.872	PASS
	HCH	15	0	2.6936	2.853	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4989	4.963	PASS
	MCH	25	0	4.5010	4.936	PASS
	HCH	25	0	4.5055	4.915	PASS
16QAM	LCH	25	0	4.5043	4.994	PASS
	MCH	25	0	4.4988	5.010	PASS
	HCH	25	0	4.5100	4.959	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9761	9.609	PASS
	MCH	50	0	8.9884	9.563	PASS
	HCH	50	0	8.9797	9.581	PASS
16QAM	LCH	50	0	8.9676	9.555	PASS
	MCH	50	0	8.9785	9.585	PASS
	HCH	50	0	8.9786	9.515	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.467	14.33	PASS
	MCH	75	0	13.472	14.29	PASS
	HCH	75	0	13.456	14.32	PASS
16QAM	LCH	75	0	13.464	14.30	PASS
	MCH	75	0	13.452	14.33	PASS
	HCH	75	0	13.458	14.28	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.945	19.00	PASS
	MCH	100	0	17.933	19.01	PASS
	HCH	100	0	17.933	19.03	PASS
16QAM	LCH	100	0	17.946	18.99	PASS
	MCH	100	0	17.945	18.99	PASS
	HCH	100	0	17.939	18.99	PASS

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### LTE Band 26A

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0885	1.245	PASS
	MCH	6	0	1.0902	1.238	PASS
	HCH	6	0	1.0920	1.248	PASS
16QAM	LCH	6	0	1.0869	1.259	PASS
	MCH	6	0	1.0895	1.271	PASS
	HCH	6	0	1.0883	1.267	PASS

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6922	2.839	PASS
	MCH	15	0	2.6887	2.851	PASS
	HCH	15	0	2.6948	2.863	PASS
16QAM	LCH	15	0	2.6837	2.854	PASS
	MCH	15	0	2.6834	2.852	PASS
	HCH	15	0	2.6873	2.860	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4978	4.817	PASS
	MCH	25	0	4.4994	4.822	PASS
	HCH	25	0	4.5009	4.812	PASS
16QAM	LCH	25	0	4.5025	4.818	PASS
	MCH	25	0	4.5063	4.810	PASS
	HCH	25	0	4.5016	4.824	PASS

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Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9879	9.515	PASS
	MCH	50	0	8.9817	9.506	PASS
	HCH	50	0	8.9923	9.517	PASS
16QAM	LCH	50	0	8.9799	9.493	PASS
	MCH	50	0	8.9902	9.522	PASS
	HCH	50	0	8.9908	9.524	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.481	14.24	PASS
	MCH	75	0	13.482	14.28	PASS
	HCH	75	0	13.489	14.28	PASS
16QAM	LCH	75	0	13.481	14.25	PASS
	MCH	75	0	13.482	14.27	PASS
	HCH	75	0	13.485	14.25	PASS

### LTE Band 26B

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	6	0	1.0885	1.254	PASS
	MCH	6	0	1.0881	1.246	PASS
	HCH	6	0	1.0915	1.244	PASS
16QAM	LCH	6	0	1.0874	1.270	PASS
	MCH	6	0	1.0884	1.267	PASS
	HCH	6	0	1.0890	1.261	PASS

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Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6878	2.855	PASS
	MCH	15	0	2.6945	2.863	PASS
	HCH	15	0	2.6912	2.870	PASS
16QAM	LCH	15	0	2.6845	2.836	PASS
	MCH	15	0	2.6836	2.858	PASS
	HCH	15	0	2.6902	2.852	PASS

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4983	4.819	PASS
	MCH	25	0	4.4983	4.805	PASS
	HCH	25	0	4.4969	4.837	PASS
16QAM	LCH	25	0	4.4912	4.821	PASS
	MCH	25	0	4.5050	4.804	PASS
	HCH	25	0	4.5017	4.802	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.9790	9.513	PASS
16QAM	MCH	50	0	8.9759	9.499	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	75	0	13.466	14.25	PASS
16QAM	MCH	75	0	13.452	14.22	PASS

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### LTE Band 38

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5042	4.788	PASS
	MCH	25	0	4.5065	4.762	PASS
	HCH	25	0	4.4958	4.826	PASS
16QAM	LCH	25	0	4.4918	4.785	PASS
	MCH	25	0	4.4964	4.803	PASS
	HCH	25	0	4.4904	4.779	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9814	9.480	PASS
	MCH	50	0	8.9727	9.477	PASS
	HCH	50	0	8.9733	9.493	PASS
16QAM	LCH	50	0	8.9848	9.507	PASS
	MCH	50	0	8.9708	9.504	PASS
	HCH	50	0	8.9669	9.491	PASS

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.462	14.25	PASS
	MCH	75	0	13.465	14.24	PASS
	HCH	75	0	13.447	14.21	PASS
16QAM	LCH	75	0	13.468	14.24	PASS
	MCH	75	0	13.462	14.22	PASS
	HCH	75	0	13.467	14.23	PASS

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Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.931	18.93	PASS
	MCH	100	0	17.964	18.94	PASS
	HCH	100	0	17.920	18.95	PASS
16QAM	LCH	100	0	17.929	18.94	PASS
	MCH	100	0	17.976	18.93	PASS
	HCH	100	0	17.914	18.93	PASS

### LTE Band 41

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4919	4.811	PASS
	MCH	25	0	4.4941	4.828	PASS
	HCH	25	0	4.5046	4.867	PASS
16QAM	LCH	25	0	4.4949	4.806	PASS
	MCH	25	0	4.4917	4.790	PASS
	HCH	25	0	4.4930	4.836	PASS

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9357	9.446	PASS
	MCH	50	0	8.9707	9.528	PASS
	HCH	50	0	8.9667	9.814	PASS
16QAM	LCH	50	0	8.9513	9.481	PASS
	MCH	50	0	8.9886	9.508	PASS
	HCH	50	0	8.9795	9.522	PASS

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Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.358	14.18	PASS
	MCH	75	0	13.489	14.25	PASS
	HCH	75	0	13.441	14.33	PASS
16QAM	LCH	75	0	13.350	14.17	PASS
	MCH	75	0	13.481	14.22	PASS
	HCH	75	0	13.423	14.23	PASS

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	100	0	17.696	18.83	PASS
	MCH	100	0	17.953	18.96	PASS
	HCH	100	0	17.833	18.89	PASS
16QAM	LCH	100	0	17.680	18.83	PASS
	MCH	100	0	17.952	18.96	PASS
	HCH	100	0	17.832	18.88	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 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
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 measurement 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 bandwidth 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  $43 + 10 \log_{10} p$
- 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:  $40 + 10 \log_{10} p$  from the channel

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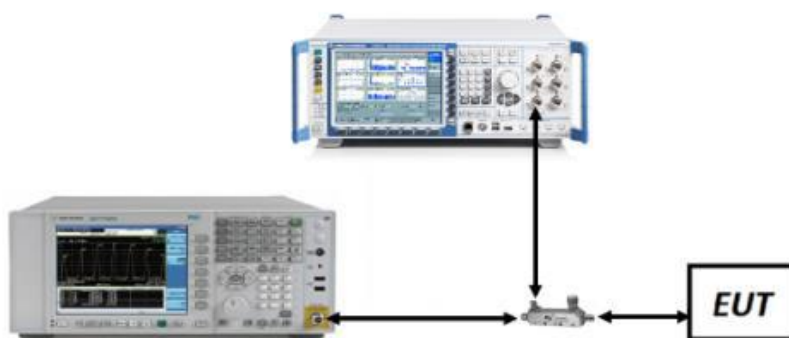
edges to 5 MHz away  $43 + 10 \log_{10} p$  between 5 MHz and X MHz from the channel edges, and  $55 + 10 \log_{10} p$  at X MHz and beyond from the channel edges. In addition, the attenuation shall not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz, and  $55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

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

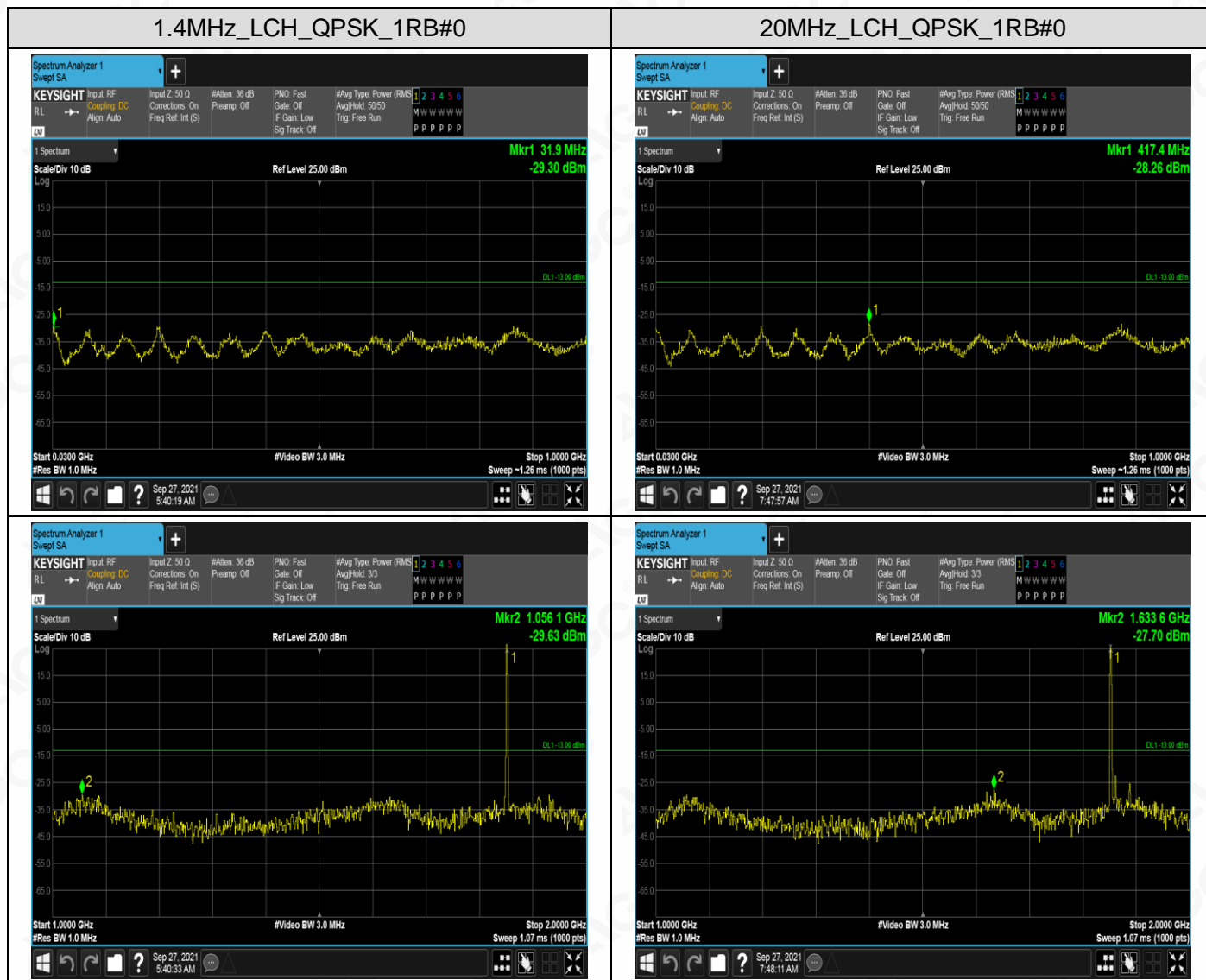
NOTE: Please refers to Appendix C for compliance test plots for band edge

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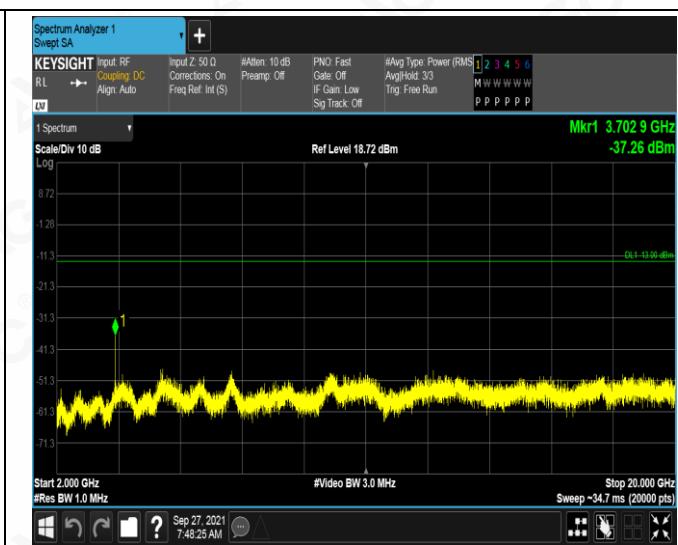
## APPENDIX A TEST PLOTS FOR SPURIOUS EMISSIONS AT ANTENNA TERMINALS LTE BAND 2



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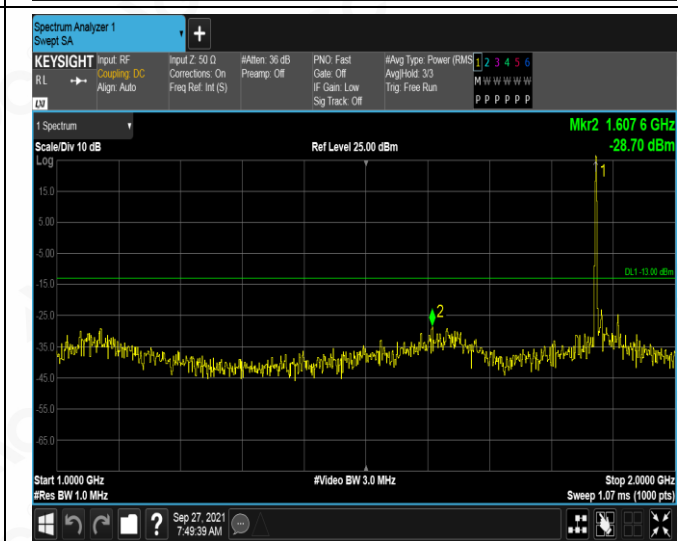
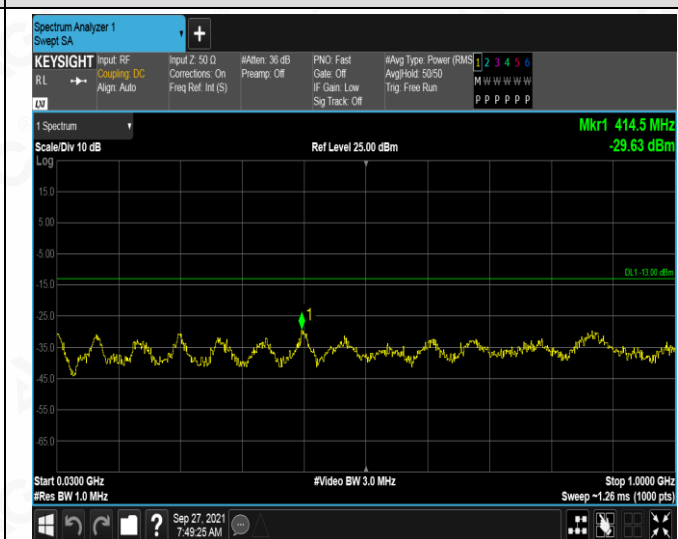




### 1.4MHz\_MCH\_QPSK\_1RB#0

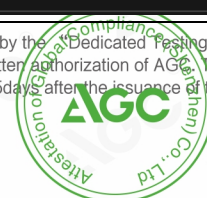


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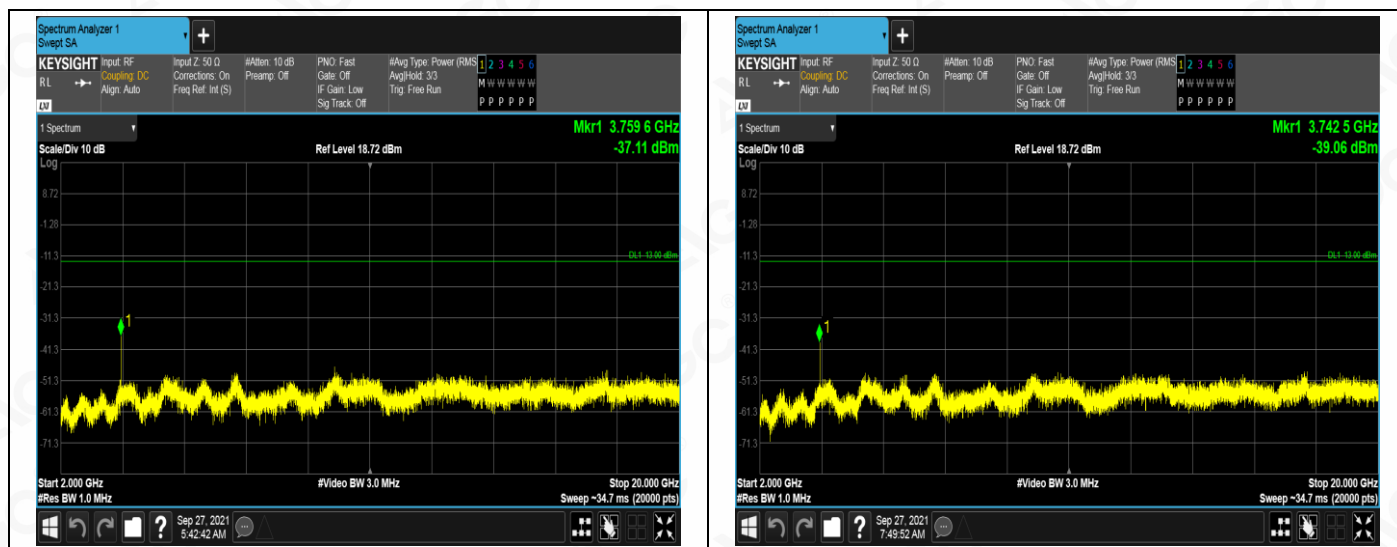


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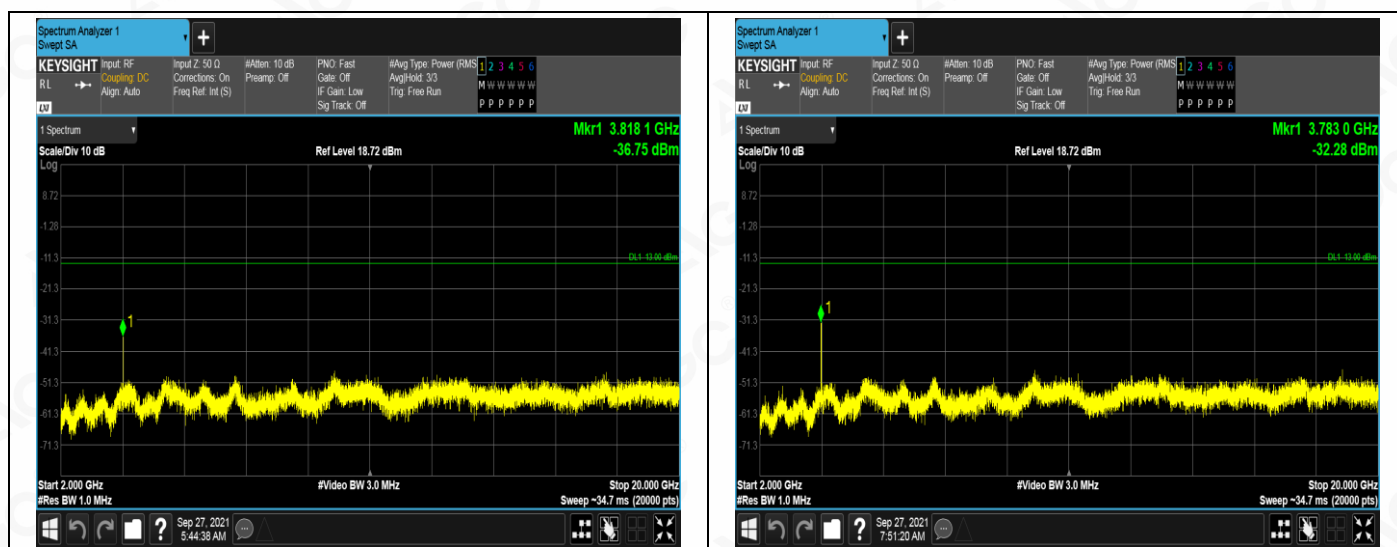




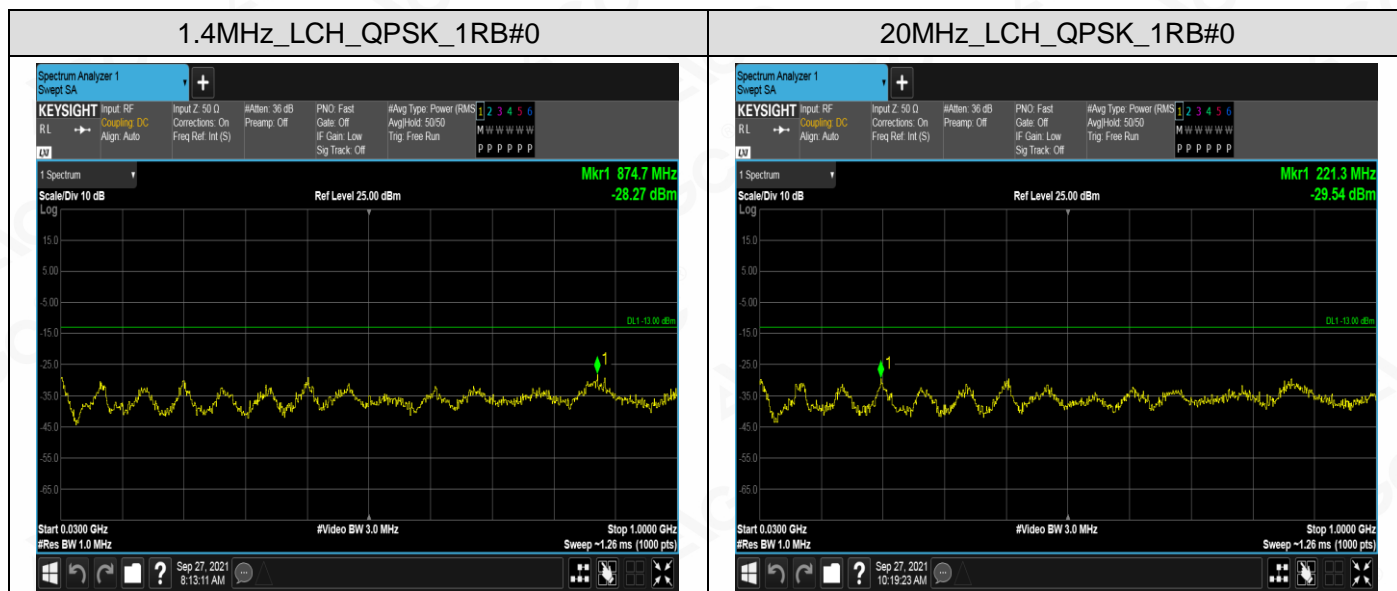
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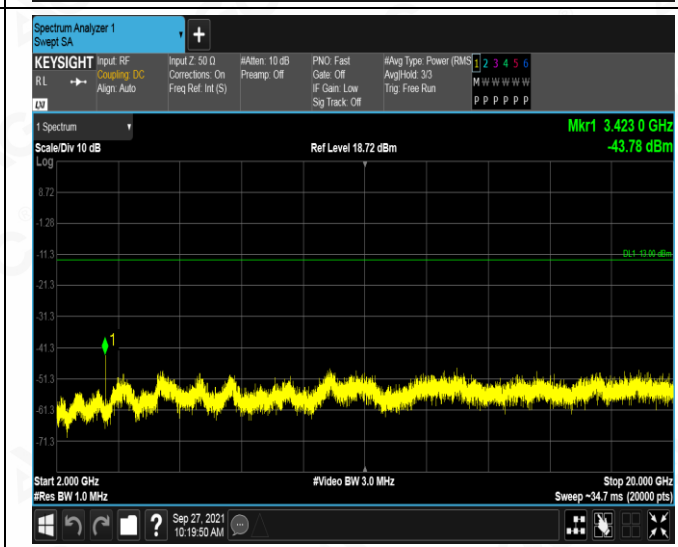
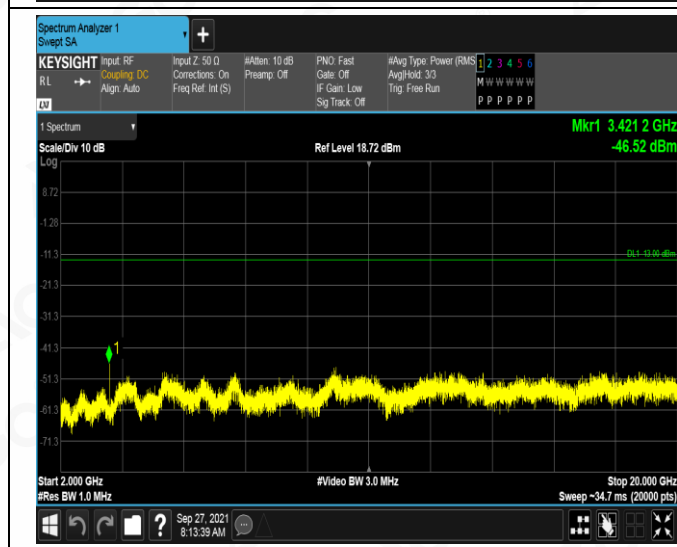
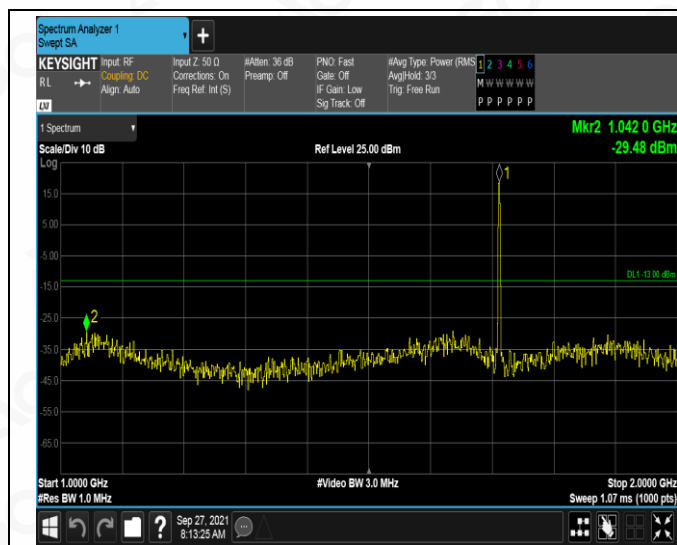
### LTE BAND 4



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### 1.4MHz\_MCH\_QPSK\_1RB#0



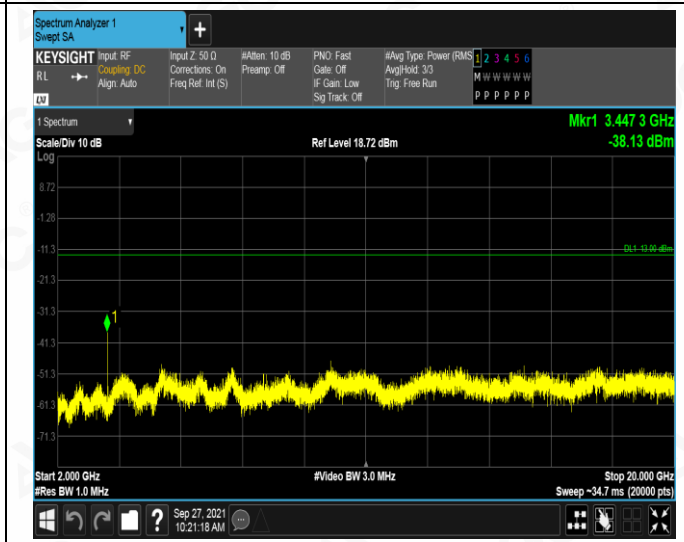
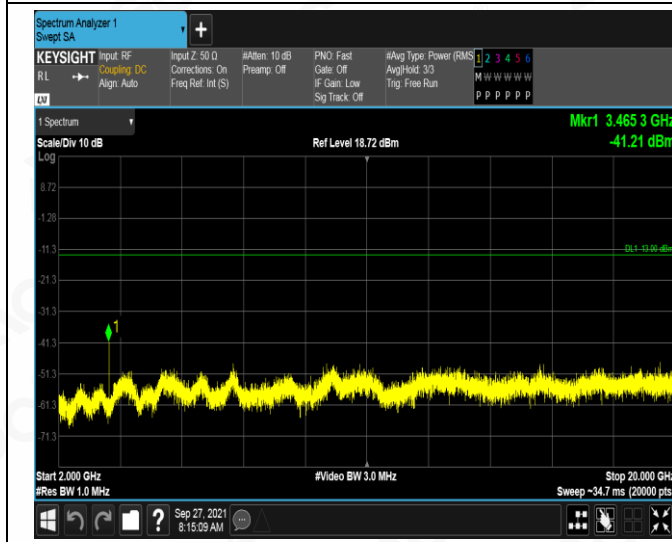
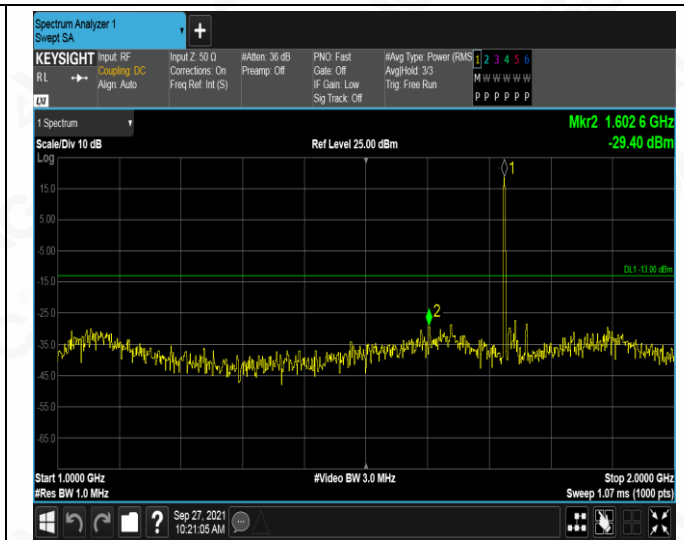
### 20MHz\_MCH\_QPSK\_1RB#0



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### 1.4MHz\_HCH\_QPSK\_1RB#0



### 20MHz\_HCH\_QPSK\_1RB#0



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