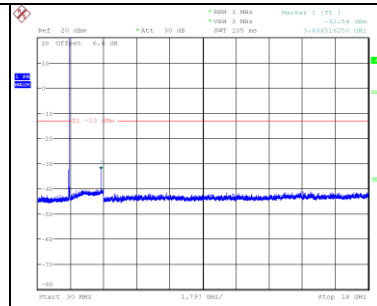
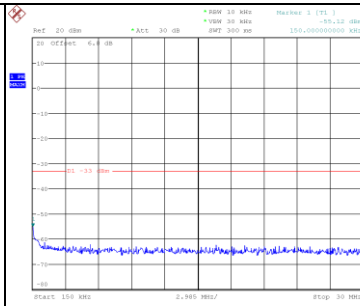
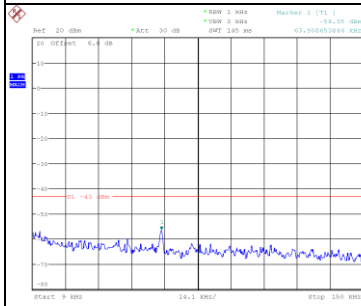
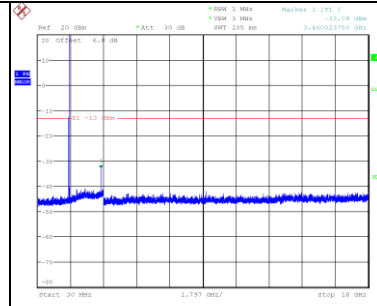
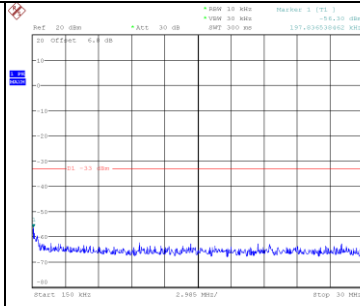
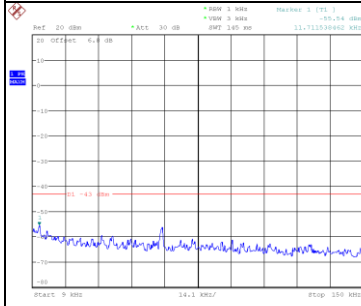


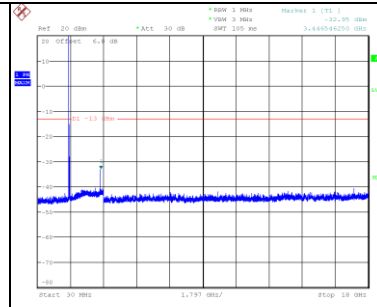
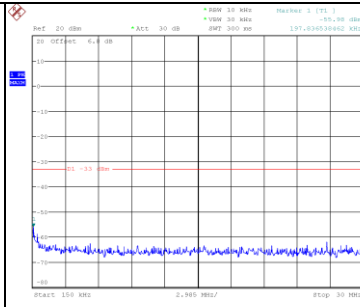
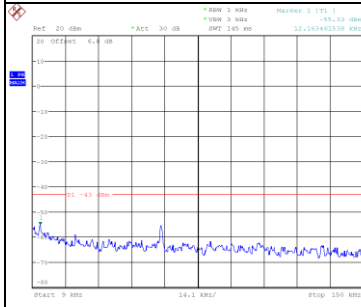
LTE Band 4_1.4MHz_CH20175 Spectrum Plot



LTE Band 4_5MHz_CH20175 Spectrum Plot



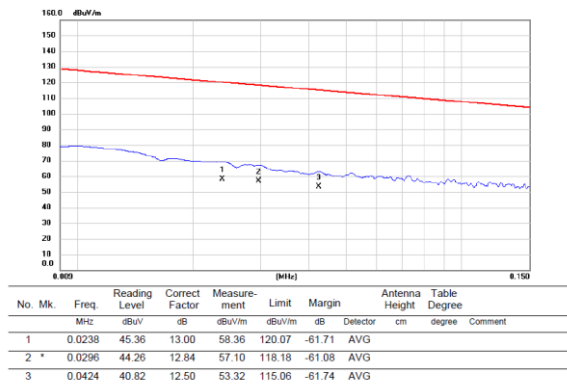
LTE Band 4_20MHz_CH20175 Spectrum Plot



APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

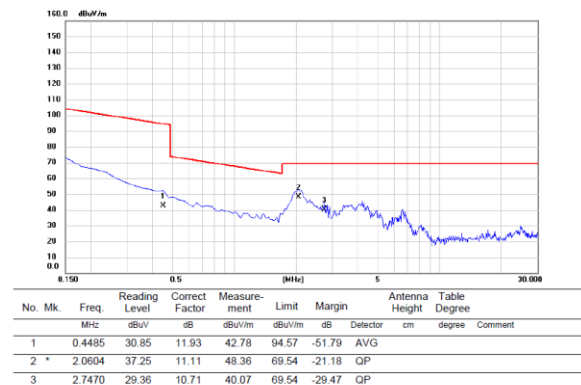
Test Mode : TX Mode

Ant 0°



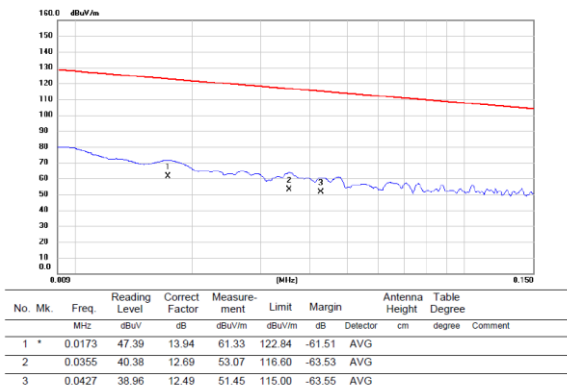
Test Mode : TX Mode

Ant 0°



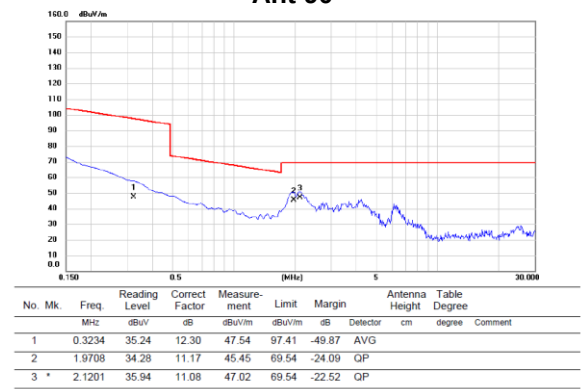
Test Mode : TX Mode

Ant 90°



Test Mode : TX Mode

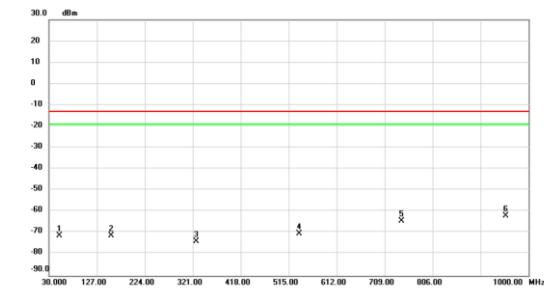
Ant 90°



APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1GHZ)

Test Mode : LTE Band 4_TX CH20175_1.4MHz

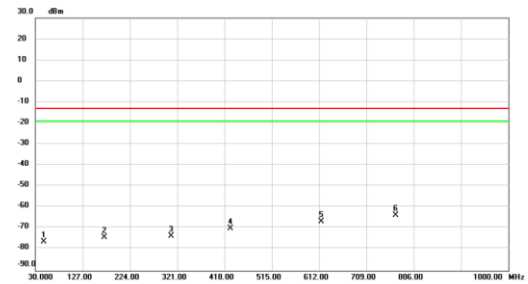
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	50.8550	-59.64	-11.55	-71.19	-13.00	-58.19	peak	
2	155.6150	-59.55	-11.67	-71.22	-13.00	-58.22	peak	
3	328.2750	-63.54	-10.54	-74.08	-13.00	-61.08	peak	
4	536.8250	-64.15	-6.26	-70.41	-13.00	-57.41	peak	
5	743.4350	-62.22	-2.22	-64.44	-13.00	-51.44	peak	
6 *	953.4400	-61.79	-0.16	-61.95	-13.00	-48.95	peak	

Test Mode : LTE Band 4_TX CH20175_1.4MHz

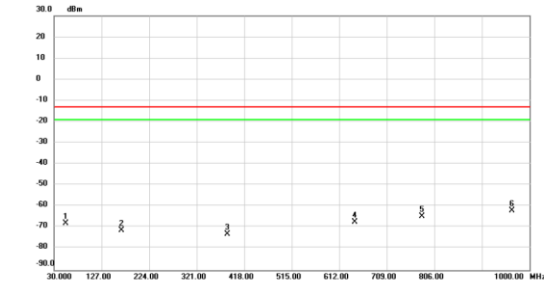
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	46.9750	-64.70	-11.62	-76.32	-13.00	-63.32	peak	
2	171.6200	-62.07	-12.23	-74.30	-13.00	-61.30	peak	
3	308.3900	-62.42	-11.08	-73.50	-13.00	-60.50	peak	
4	430.6100	-61.85	-8.19	-70.04	-13.00	-57.04	peak	
5	616.3650	-62.51	-4.21	-66.72	-13.00	-53.72	peak	
6 *	769.6250	-61.93	-1.96	-63.89	-13.00	-50.89	peak	

Test Mode : LTE Band 4_TX CH20175_5MHz

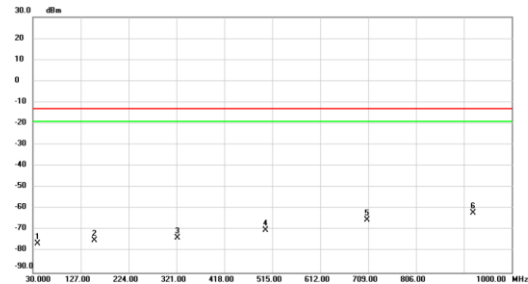
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	54.2500	-56.43	-11.67	-68.10	-13.00	-55.10	peak	
2	168.2250	-59.33	-11.99	-71.32	-13.00	-58.32	peak	
3	384.0500	-63.62	-9.45	-73.07	-13.00	-60.07	peak	
4	643.5250	-63.41	-3.96	-67.37	-13.00	-54.37	peak	
5	780.2950	-62.76	-1.87	-64.63	-13.00	-51.63	peak	
6 *	964.5950	-61.94	-0.06	-62.00	-13.00	-49.00	peak	

Test Mode : LTE Band 4_TX CH20175_5MHz

Horizontal

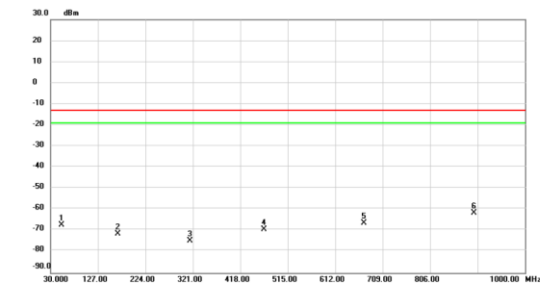


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	40.1850	-64.33	-12.13	-76.46	-13.00	-63.46	peak	
2	154.6450	-63.27	-11.67	-74.94	-13.00	-61.94	peak	
3	323.4250	-62.94	-10.65	-73.59	-13.00	-60.59	peak	
4	501.4200	-63.07	-6.90	-69.97	-13.00	-56.97	peak	
5	707.5450	-62.49	-2.76	-65.25	-13.00	-52.25	peak	
6 *	921.4300	-61.19	-0.65	-61.84	-13.00	-48.84	peak	

Test Mode : LTE Band 4_TX CH20175_20MHz

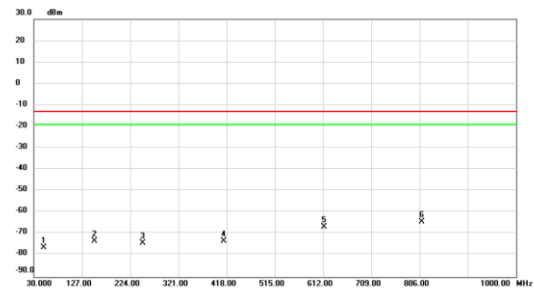
Test Mode : LTE Band 4_TX CH20175_20MHz

Vertical



No. Mx	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
MHz	dBm	dB	dBm	dBm	dB			
1	52.3100	-55.86	-11.61	-67.47	-13.00	-54.47	peak	
2	168.2250	-59.45	-11.99	-71.44	-13.00	-58.44	peak	
3	315.1800	-64.06	-10.87	-74.93	-13.00	-61.93	peak	
4	466.0150	-62.13	-7.38	-69.51	-13.00	-56.51	peak	
5	670.6850	-63.03	-3.48	-66.51	-13.00	-53.51	peak	
6 *	895.2400	-60.72	-0.99	-61.71	-13.00	-48.71	peak	

Horizontal

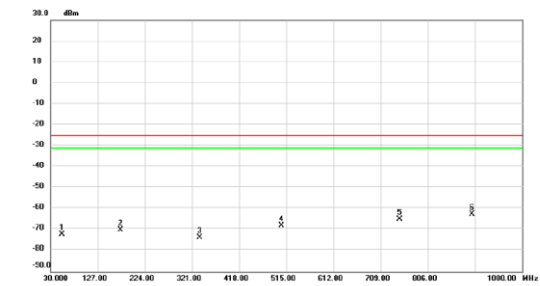


No. Mx	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
MHz	dBm	dB	dBm	dBm	dB			
1	49.4000	-64.79	-11.54	-76.33	-13.00	-63.33	peak	
2	152.7050	-61.64	-11.68	-73.32	-13.00	-60.32	peak	
3	249.2200	-61.08	-13.04	-74.12	-13.00	-61.12	peak	
4	412.1800	-64.46	-8.76	-73.22	-13.00	-60.22	peak	
5	613.9400	-62.54	-4.24	-66.78	-13.00	-53.78	peak	
6 *	809.8800	-62.68	-1.56	-64.24	-13.00	-51.24	peak	

Test Mode : LTE Band 7_TX CH21100_5MHz

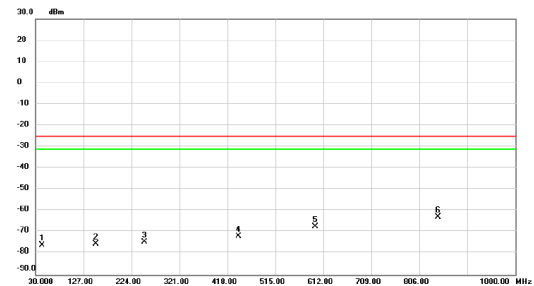
Test Mode : LTE Band 7_TX CH21100_5MHz

Vertical



No. Mx	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
MHz	dBm	dB	dBm	dBm	dB			
1	53.7650	-70.10	-2.06	-72.16	-25.00	-47.16	peak	
2	173.5600	-67.18	-2.84	-70.02	-25.00	-45.02	peak	
3	337.4900	-72.98	-0.75	-73.73	-25.00	-48.73	peak	
4	504.8150	-70.75	2.76	-67.99	-25.00	-42.99	peak	
5	748.2850	-72.30	7.45	-64.85	-25.00	-39.85	peak	
6 *	897.1800	-71.10	8.60	-62.50	-25.00	-37.50	peak	

Horizontal

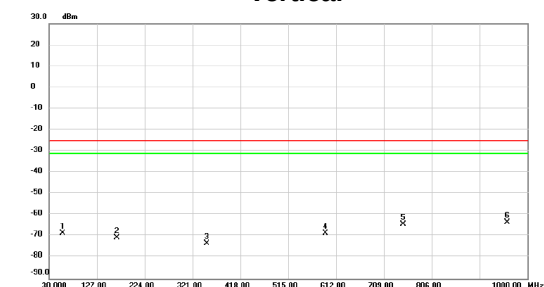


No. Mx	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
MHz	dBm	dB	dBm	dBm	dB			
1	43.5800	-73.84	-2.23	-76.07	-25.00	-51.07	peak	
2	151.7350	-73.21	-2.10	-75.31	-25.00	-50.31	peak	
3	250.6750	-71.18	-3.40	-74.58	-25.00	-49.58	peak	
4	440.7950	-73.65	1.70	-71.95	-25.00	-46.95	peak	
5	595.9950	-72.34	5.09	-67.25	-25.00	-42.25	peak	
6 *	844.3150	-71.34	8.56	-62.78	-25.00	-37.78	peak	

Test Mode : LTE Band 7_TX CH21100_20MHz

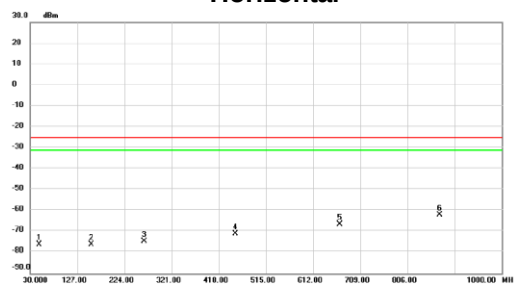
Test Mode : LTE Band 7_TX CH21100_20MHz

Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	57.1600	-66.09	-2.32	-68.41	-25.00	-43.41	peak	
2	168.2250	-68.32	-2.40	-70.72	-25.00	-45.72	peak	
3	350.1000	-72.88	-0.61	-73.49	-25.00	-48.49	peak	
4	591.1450	-73.45	4.94	-68.51	-25.00	-43.51	peak	
5	748.2850	-71.74	7.45	-64.29	-25.00	-39.29	peak	
6 *	958.7750	-72.91	9.48	-63.43	-25.00	-38.43	peak	

Horizontal

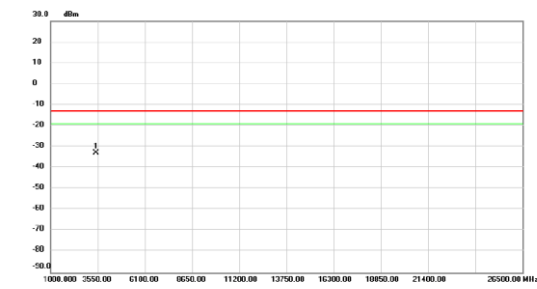


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	48.9150	-73.98	-1.98	-75.94	-25.00	-50.94	peak	
2	155.6150	-73.87	-2.08	-75.95	-25.00	-50.95	peak	
3	265.2250	-71.66	-2.87	-74.53	-25.00	-49.53	peak	
4	452.4350	-72.90	2.01	-70.89	-25.00	-45.89	peak	
5	666.3200	-72.38	6.03	-66.35	-25.00	-41.35	peak	
6 *	872.4450	-70.51	8.62	-61.89	-25.00	-36.89	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1GHZ)

Test Mode : LTE Band 4_TX CH20175_1.4MHz

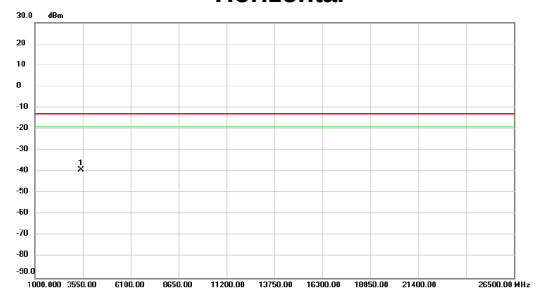
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	3460.750	-30.63	-2.10	-32.73	-13.00	-19.73	peak	

Test Mode : LTE Band 4_TX CH20175_1.4MHz

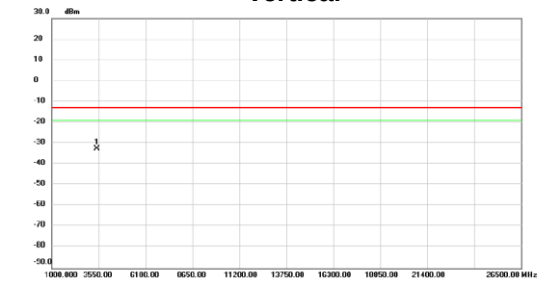
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	3460.750	-36.93	-2.10	-39.03	-13.00	-26.03	peak	

Test Mode : LTE Band 4_TX CH20175_5MHz

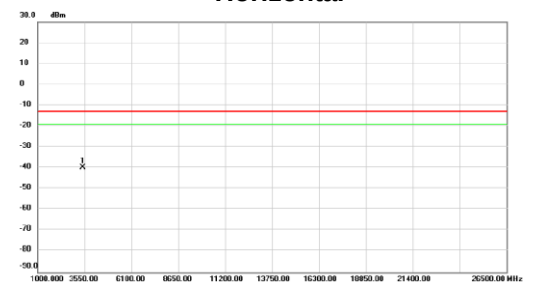
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	3460.750	-30.55	-2.10	-32.65	-13.00	-19.65	peak	

Test Mode : LTE Band 4_TX CH20175_5MHz

Horizontal

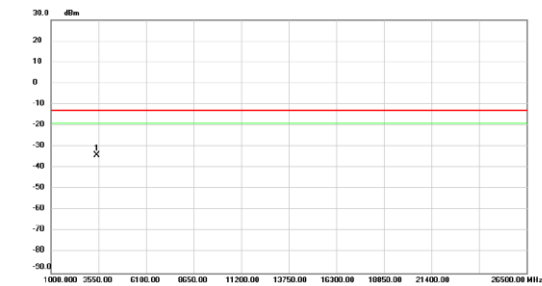


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	3460.750	-37.63	-2.10	-39.73	-13.00	-26.73	peak	

Test Mode : LTE Band 4_TX CH20175_20MHz

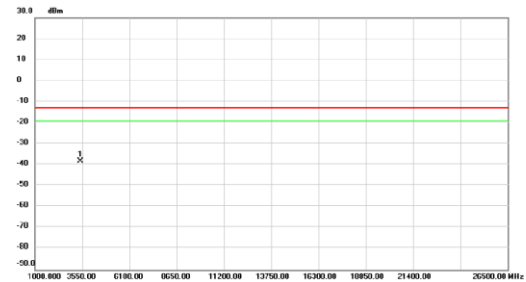
Test Mode : LTE Band 4_TX CH20175_20MHz

Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	3460.750	-31.83	-2.10	-33.93	-13.00	-20.93	peak	

Horizontal

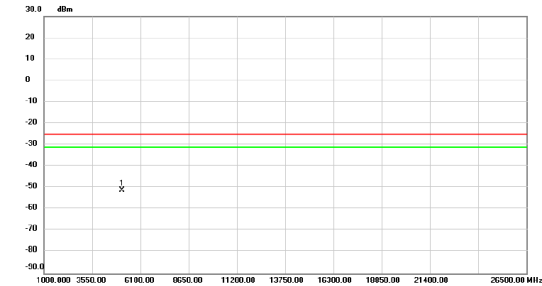


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	3460.750	-36.25	-2.10	-38.35	-13.00	-25.35	peak	

Test Mode : LTE Band 7_TX CH21100_5MHz

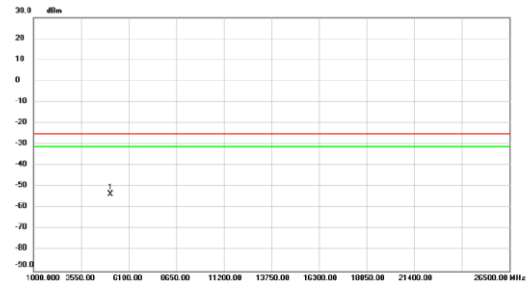
Test Mode : LTE Band 7_TX CH21100_5MHz

Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	5118.250	-65.48	14.41	-51.07	-25.00	-26.07	peak	

Horizontal

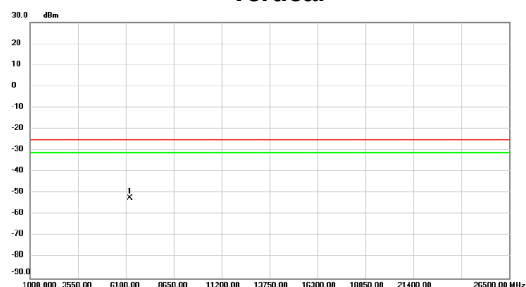


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	5118.250	-67.96	14.41	-53.55	-25.00	-28.55	peak	

Test Mode : LTE Band 7_TX CH21100_20MHz

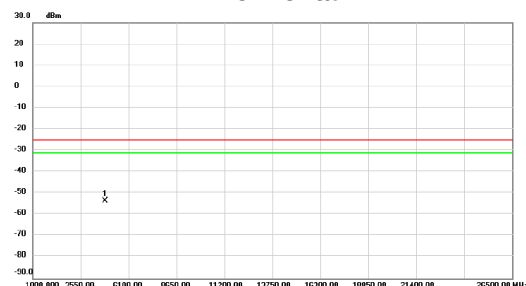
Test Mode : LTE Band 7_TX CH21100_20MHz

Vertical



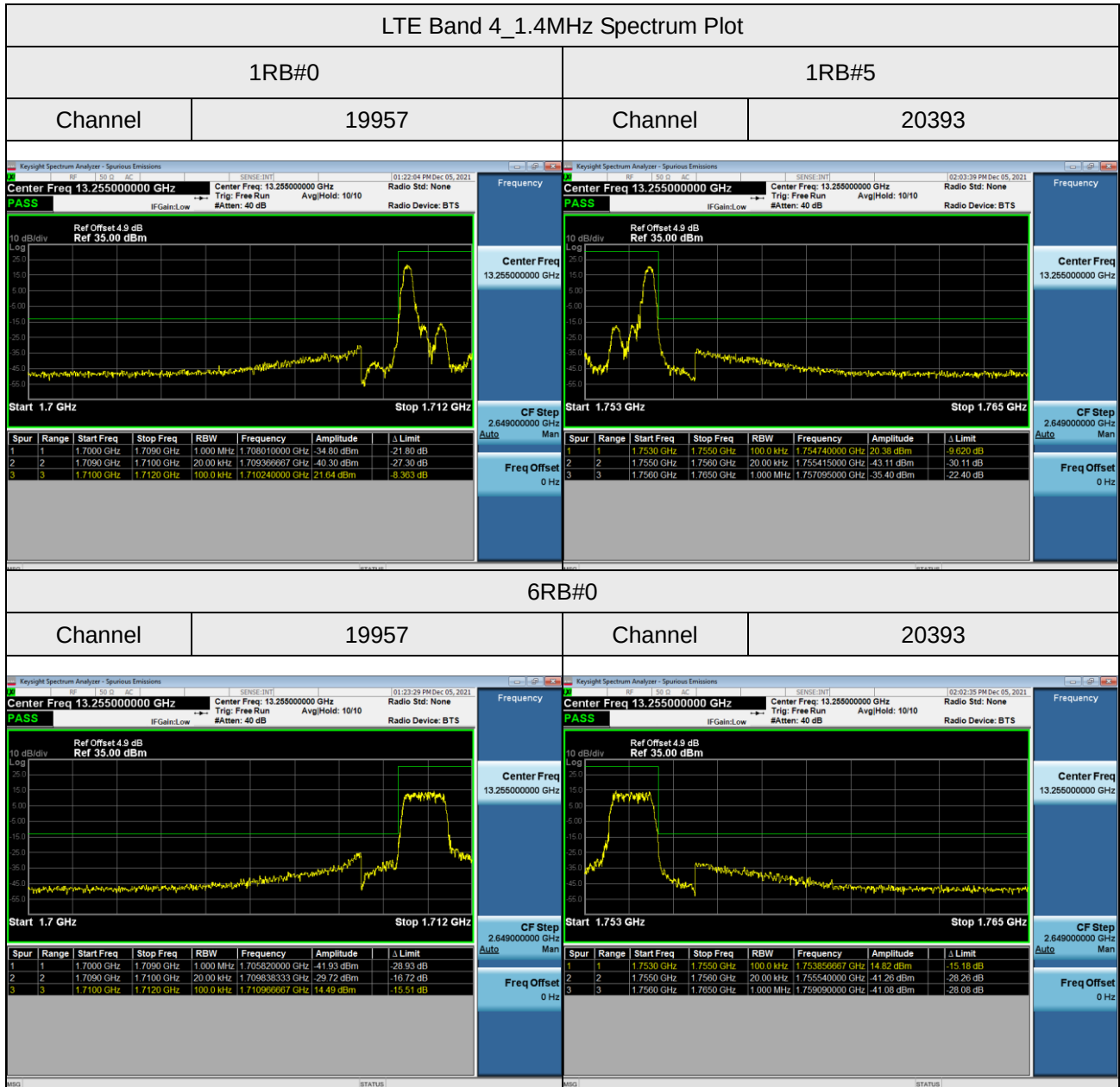
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	6316.750	-69.96	17.74	-52.22	-25.00	-27.22	peak	

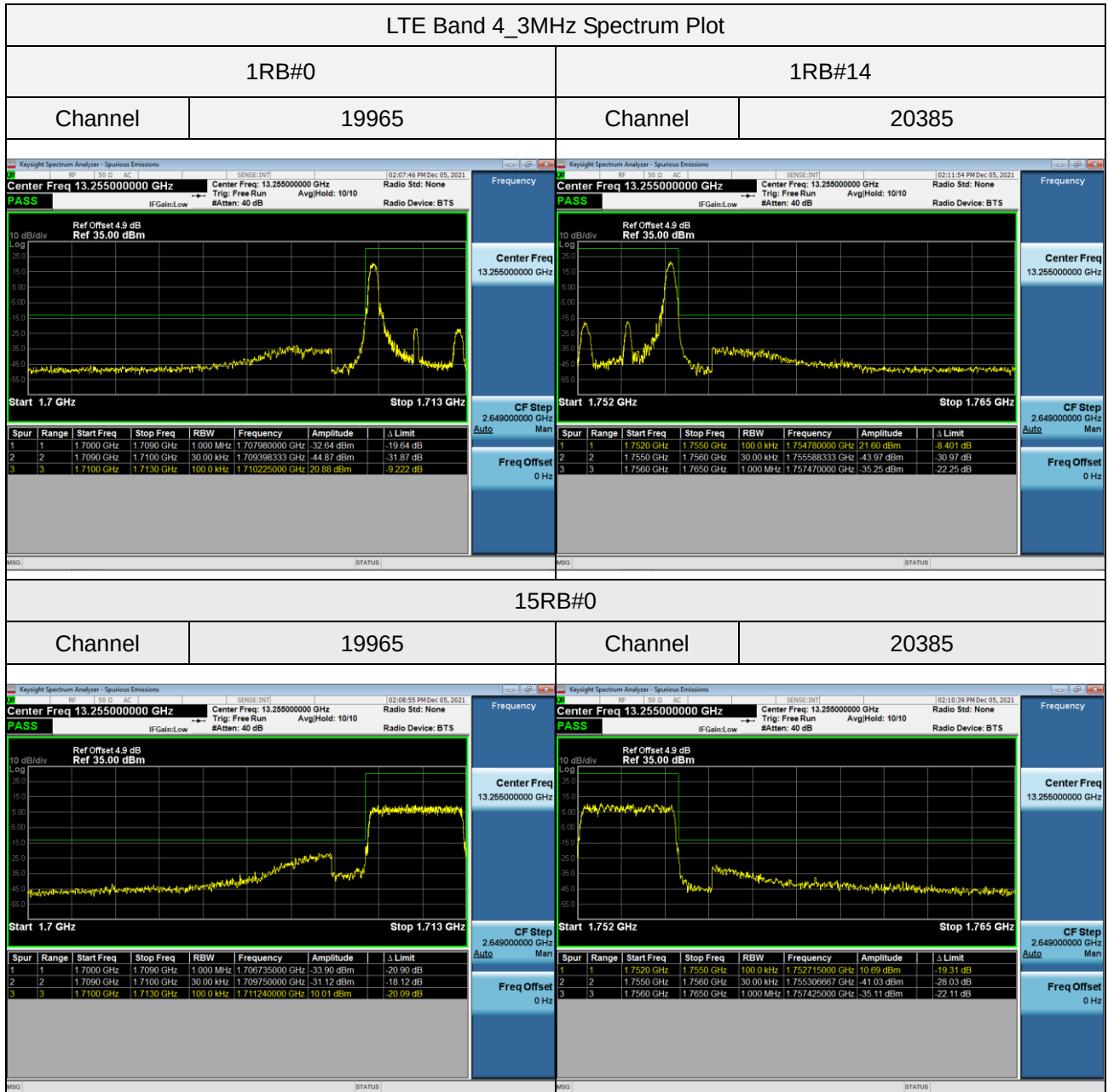
Horizontal

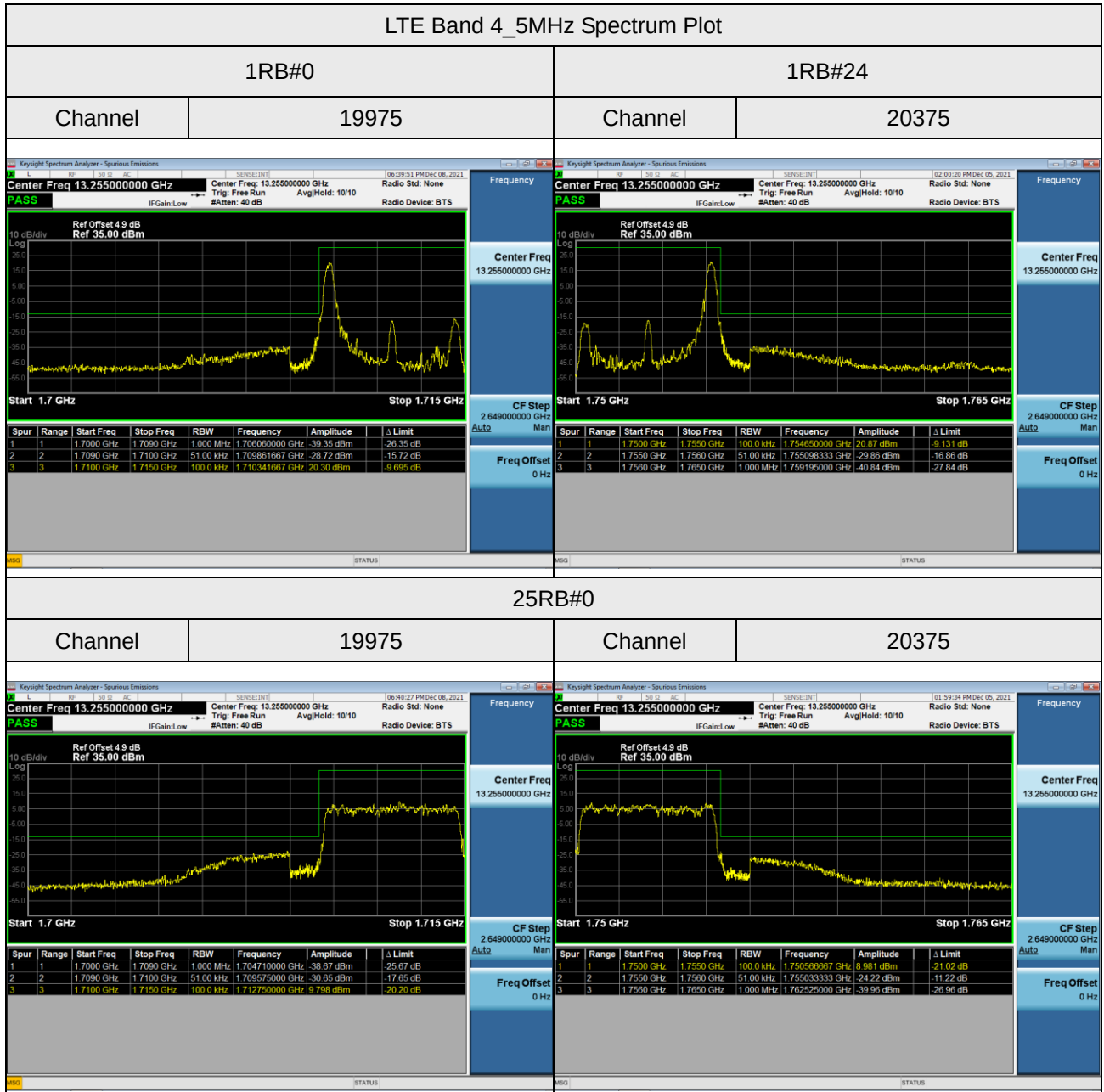


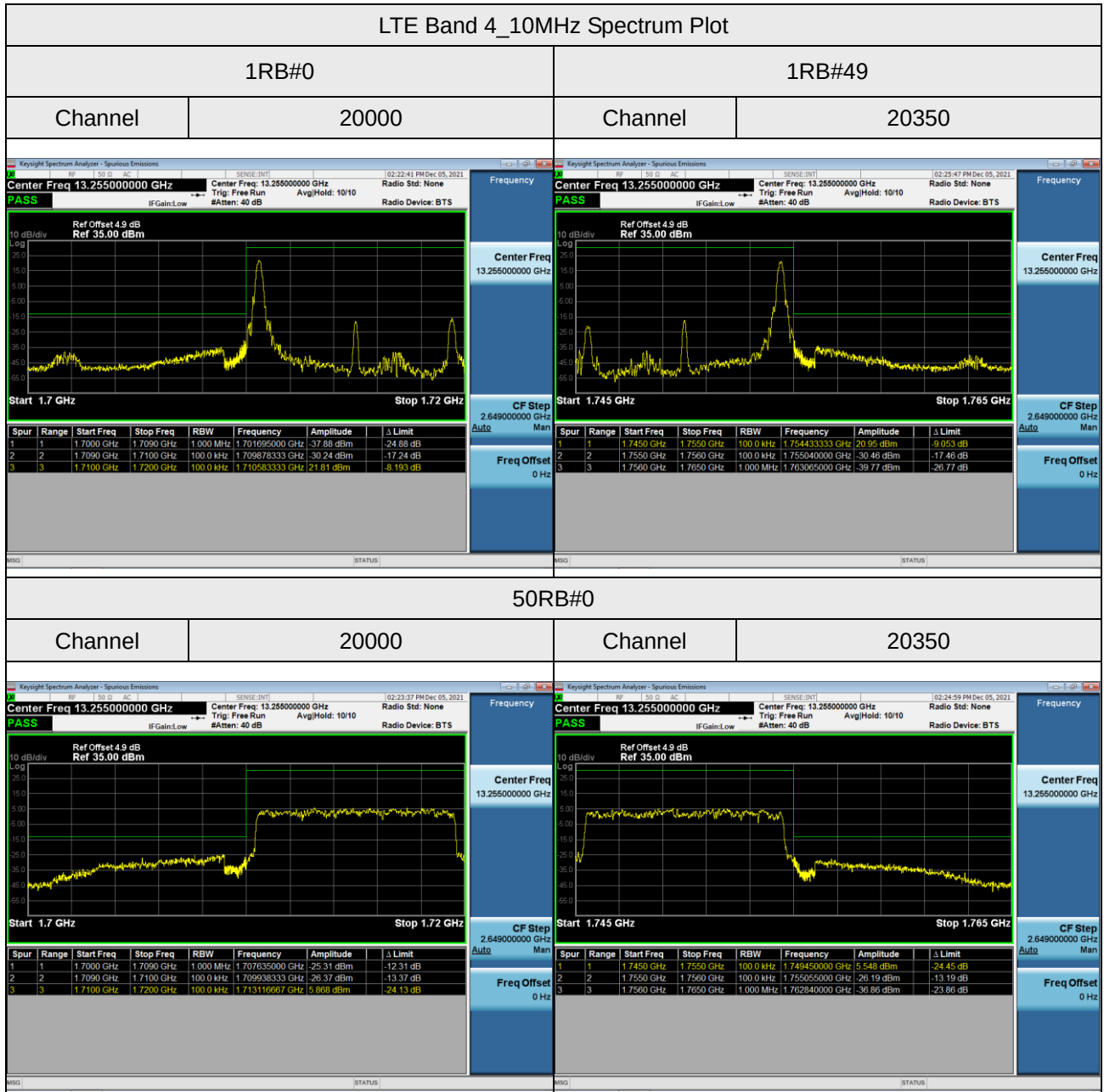
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBm	dB	dBm	dBm	dB		
1 *	4863.250	-67.51	13.92	-53.59	-25.00	-28.59	peak	

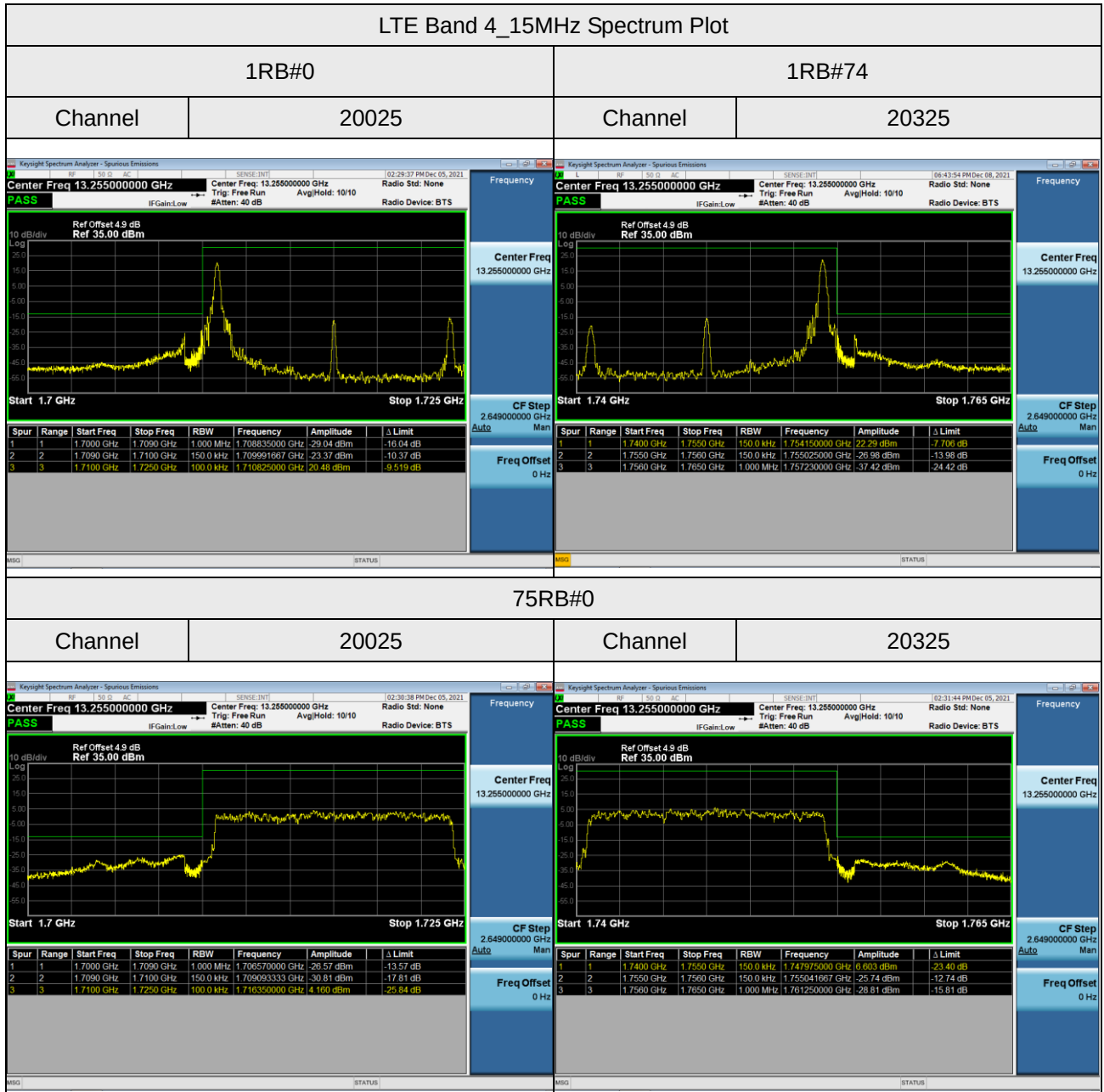
APPENDIX G - BAND EDGE

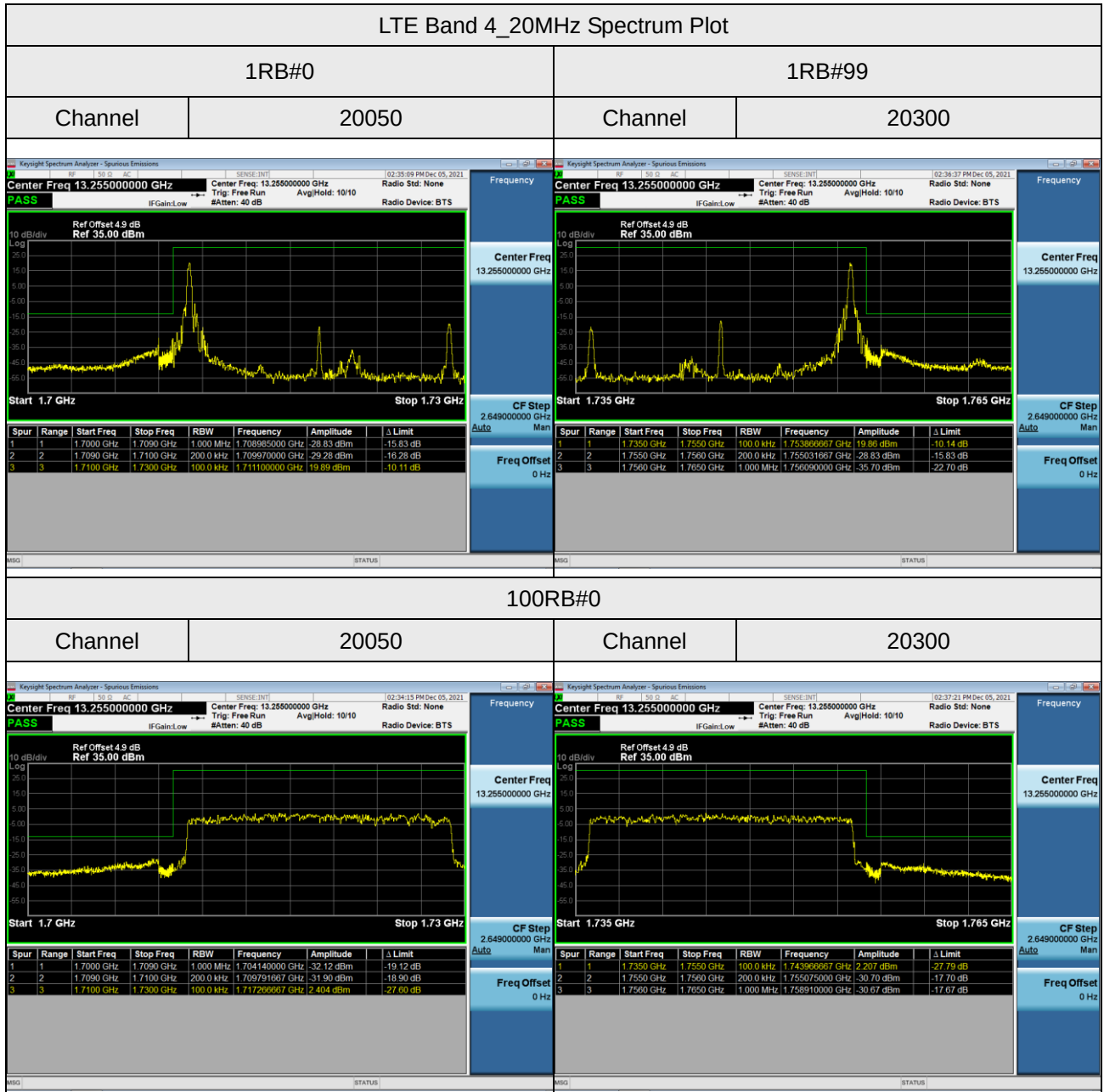


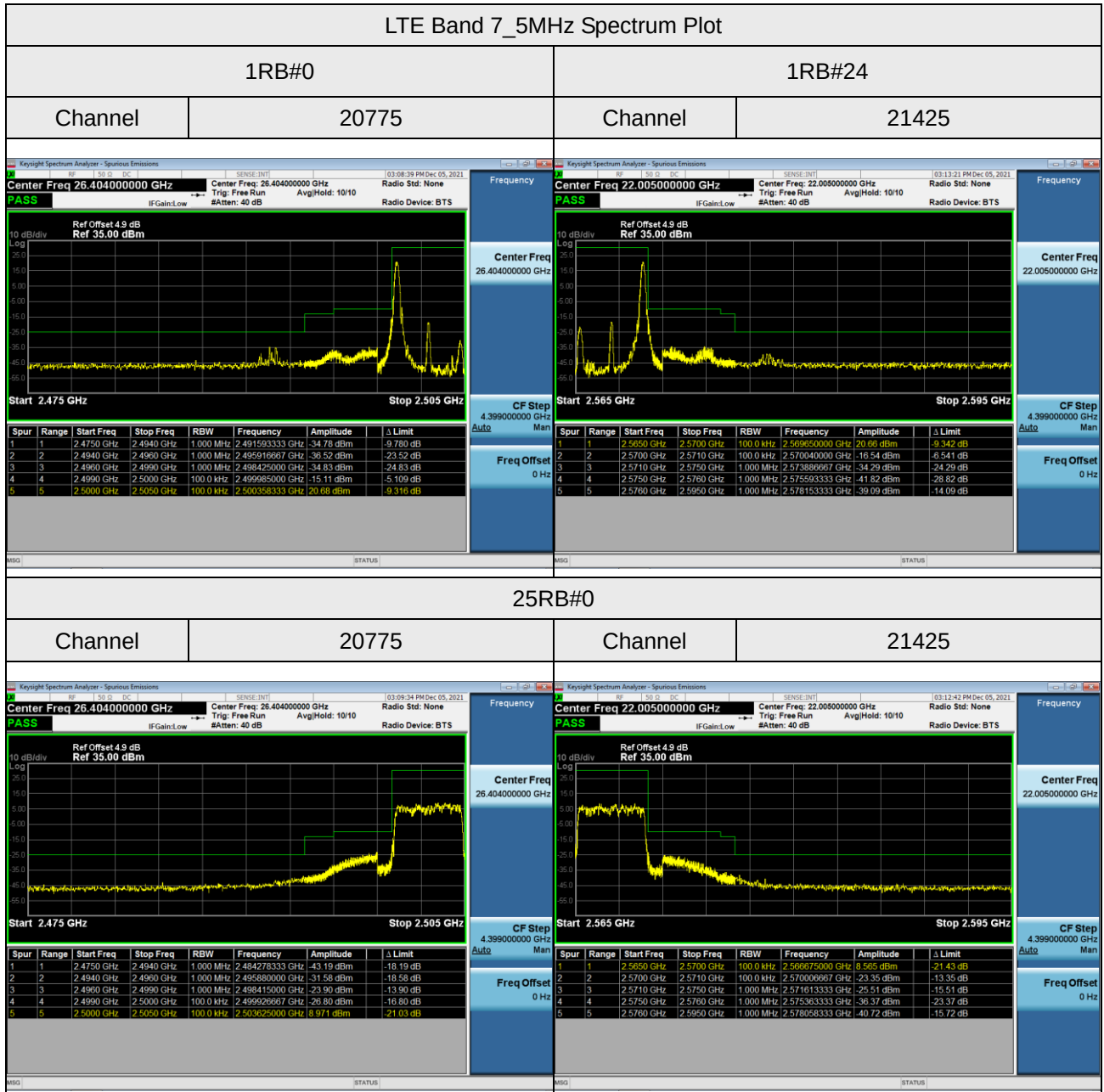












LTE Band 7_10MHz Spectrum Plot

1RB#0

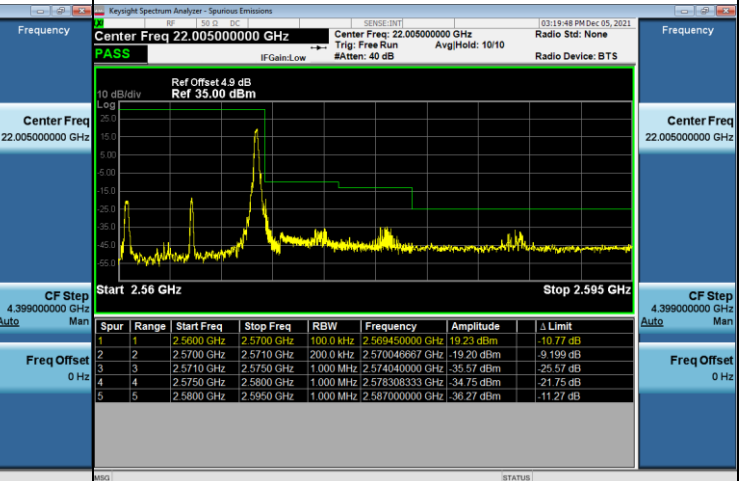
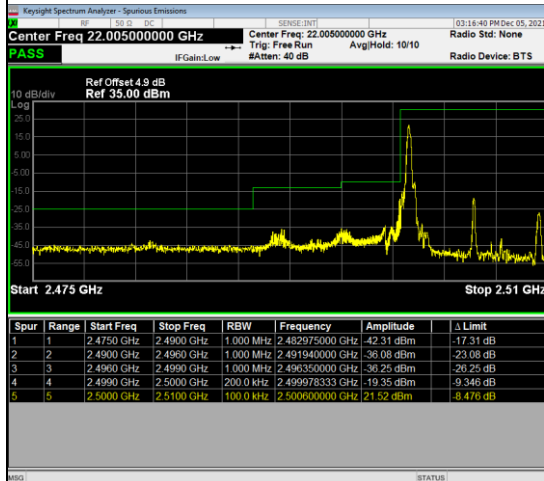
1RB#49

Channel

20800

Channel

21400



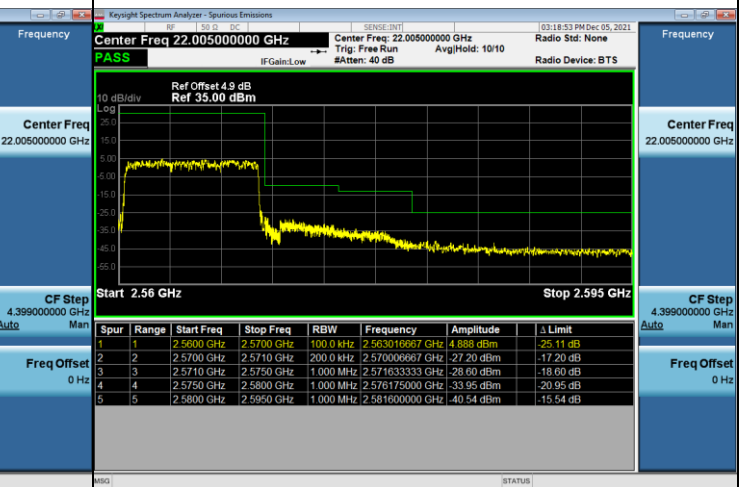
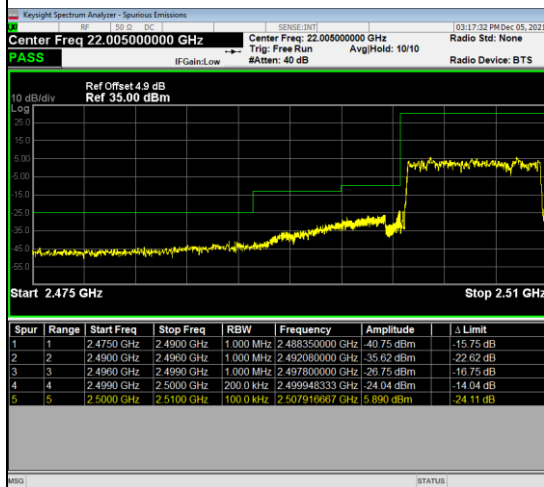
50RB#0

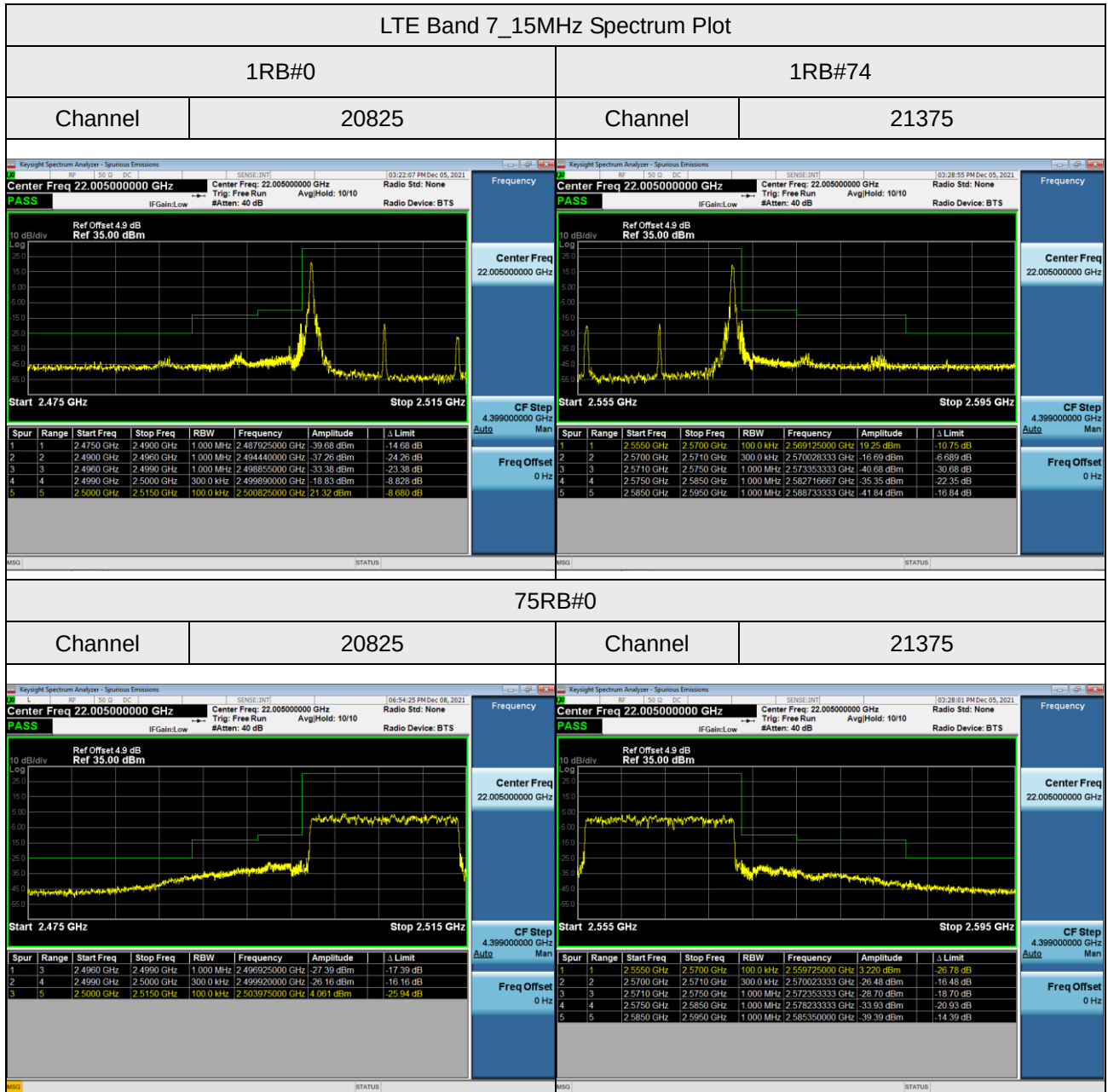
Channel

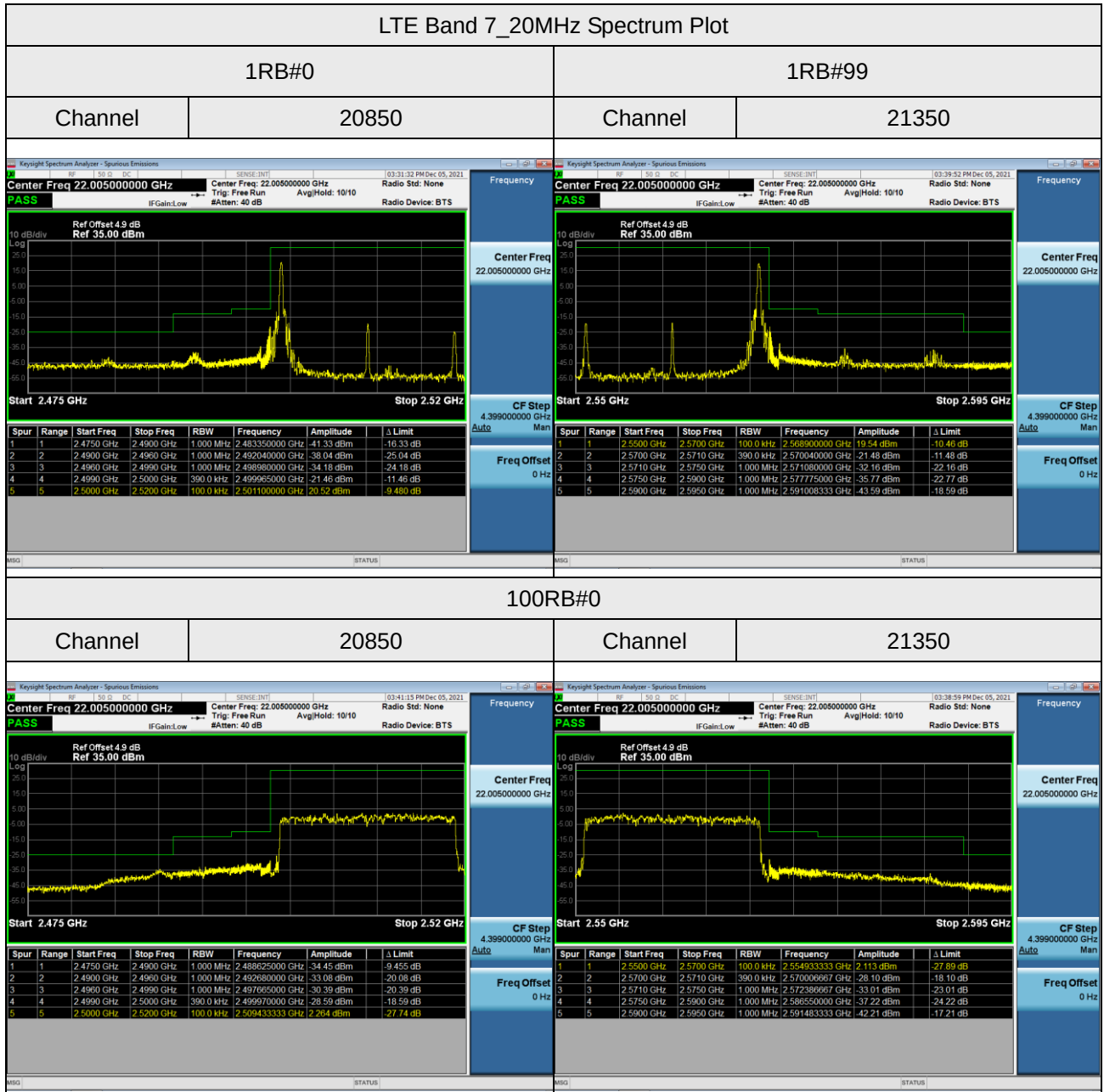
20800

Channel

21400

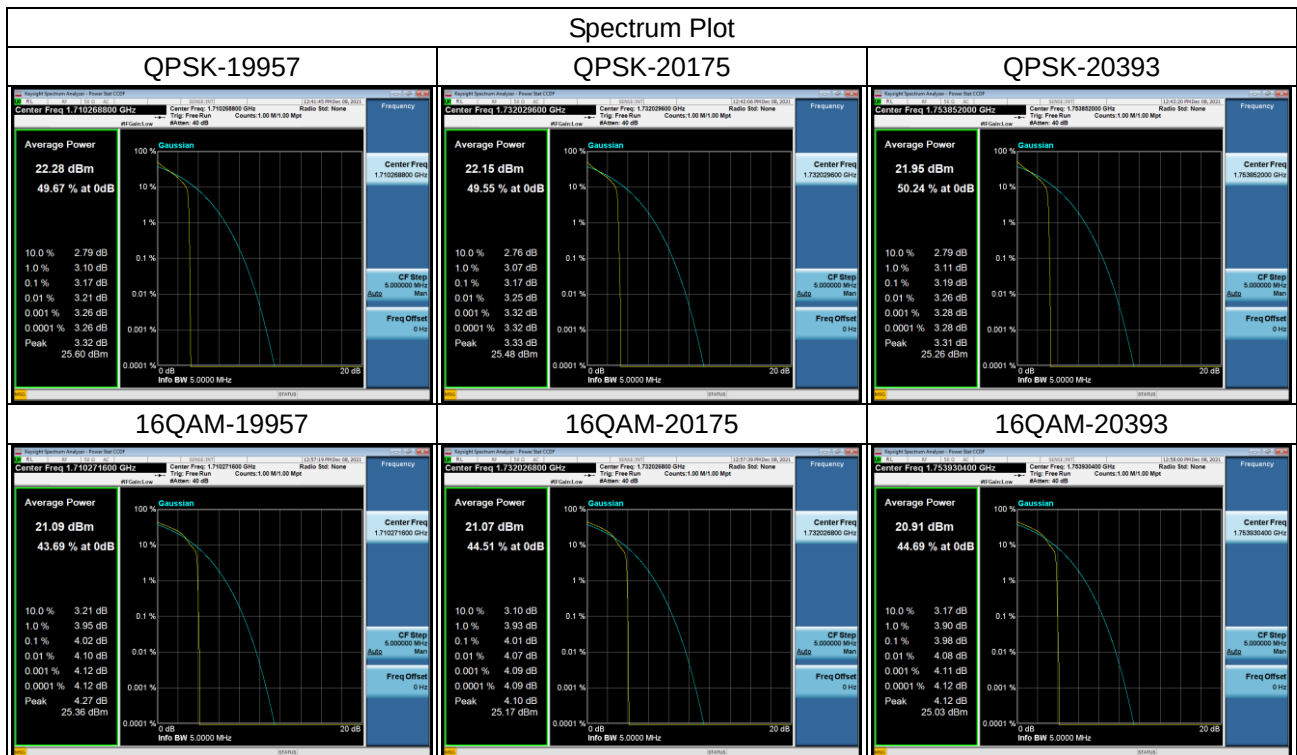




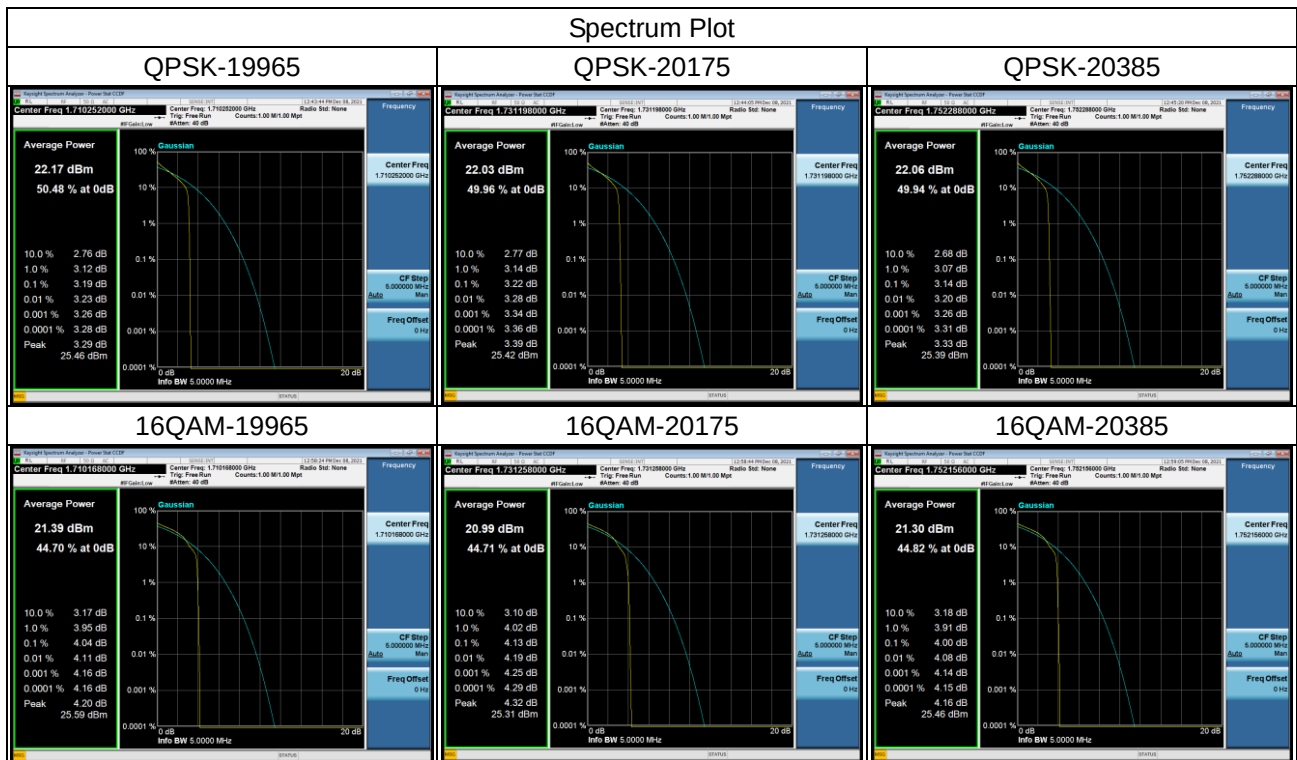


APPENDIX H - PEAK TO AVERAGE RATIO

LTE Band 4_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
19957	1710.7	3.17	4.02	13	Pass
20175	1732.5	3.17	4.01	13	Pass
20393	1754.3	3.19	3.98	13	Pass



LTE Band 4_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
19965	1711.5	3.19	4.04	13	Pass
20175	1732.5	3.22	4.13	13	Pass
20385	1753.5	3.14	4.00	13	Pass



LTE Band 4_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
19975	1712.5	3.12	3.89	13	Pass
20175	1732.5	3.10	3.78	13	Pass
20375	1752.5	3.08	3.91	13	Pass

