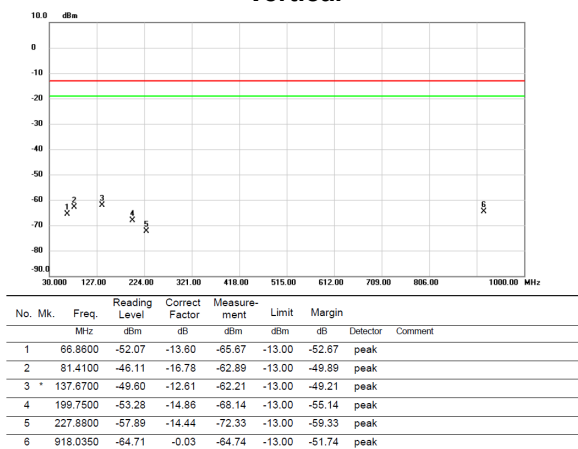


APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

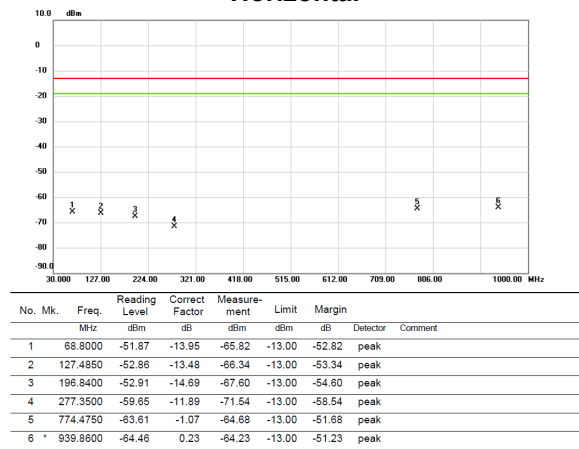
Test Mode : GSM850_TX CH190_GSM

Vertical



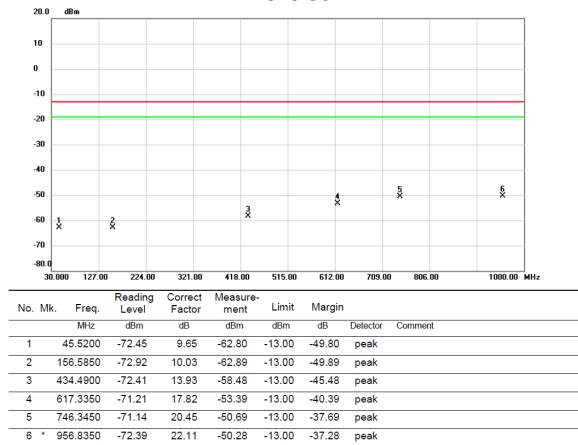
Test Mode : GSM850_TX CH190_GSM

Horizontal



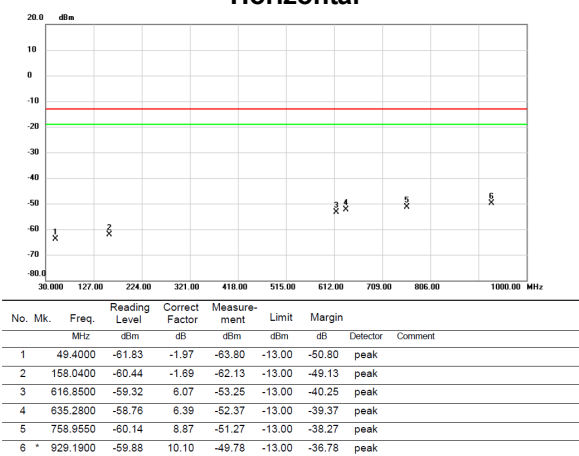
Test Mode : WCDMA Band V_TX CH4182

Vertical



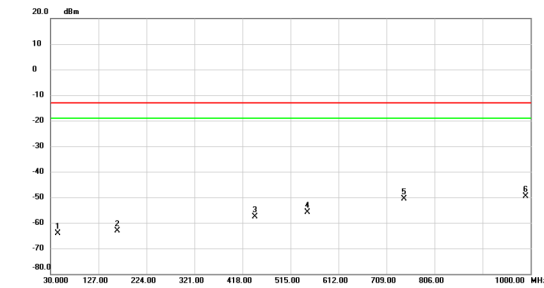
Test Mode : WCDMA Band V_TX CH4182

Horizontal



Test Mode : LTE Band 5_TX CH20525_1.4MHz

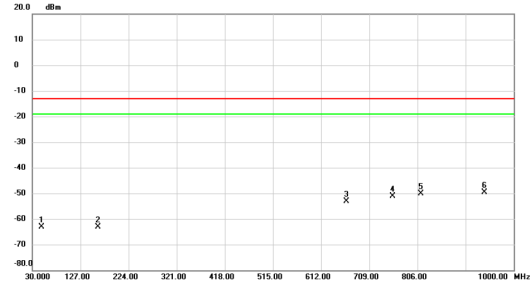
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		44.5500	-62.07	-2.14	-64.21	-13.00	-51.21	peak	
2		165.3150	-61.35	-1.85	-63.20	-13.00	-50.20	peak	
3		443.7050	-60.13	2.48	-57.65	-13.00	-44.65	peak	
4		548.9500	-60.14	4.34	-55.80	-13.00	-42.80	peak	
5		744.8900	-59.37	8.67	-50.70	-13.00	-37.70	peak	
6	*	990.7850	-60.21	10.48	-49.73	-13.00	-36.73	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

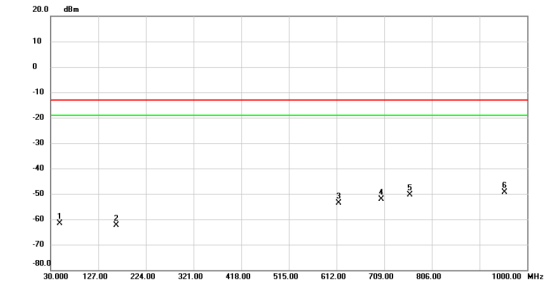
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		48.9150	-61.10	-1.99	-63.09	-13.00	-50.09	peak	
2		162.8900	-61.46	-1.78	-63.24	-13.00	-50.24	peak	
3		662.4400	-59.81	6.79	-53.02	-13.00	-40.02	peak	
4		755.5600	-60.00	8.86	-51.14	-13.00	-38.14	peak	
5		813.2750	-59.29	9.06	-50.23	-13.00	-37.23	peak	
6	*	941.3150	-59.93	10.24	-49.69	-13.00	-36.69	peak	

Test Mode : LTE Band 5_TX CH20525_5MHz

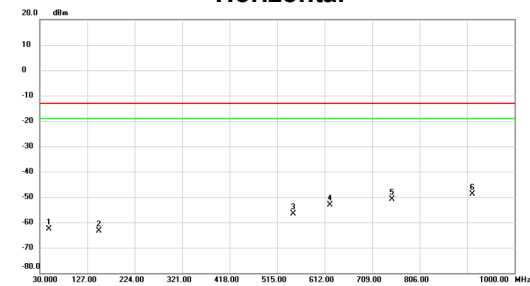
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		48.4300	-59.49	-2.01	-61.50	-13.00	-48.50	peak	
2		164.3450	-60.44	-1.82	-62.26	-13.00	-49.26	peak	
3		616.8500	-59.76	6.07	-53.69	-13.00	-40.69	peak	
4		702.6950	-59.46	7.35	-52.11	-13.00	-39.11	peak	
5		760.8950	-59.23	8.87	-50.36	-13.00	-37.36	peak	
6	*	954.4100	-59.70	10.35	-49.35	-13.00	-36.35	peak	

Test Mode : LTE Band 5_TX CH20525_5MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		48.9150	-60.65	-1.99	-62.64	-13.00	-49.64	peak	
2		150.7650	-61.54	-1.71	-63.25	-13.00	-50.25	peak	
3		548.4650	-60.84	4.33	-56.51	-13.00	-43.51	peak	
4		622.6700	-59.32	6.17	-53.15	-13.00	-40.15	peak	
5		749.2550	-59.80	8.81	-50.99	-13.00	-37.99	peak	
6	*	914.1550	-58.84	9.93	-48.91	-13.00	-35.91	peak	

Test Mode : LTE Band 5_TX CH20525_10MHz

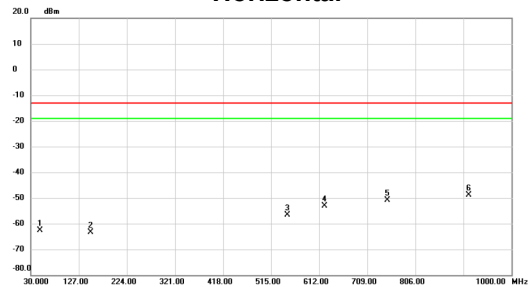
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	47.9450	-59.32	-2.02	-61.34	-13.00	-48.34	peak	
2	153.6750	-61.85	-1.70	-63.55	-13.00	-50.55	peak	
3	471.8350	-58.84	3.01	-55.83	-13.00	-42.83	peak	
4	611.0300	-59.09	5.97	-53.12	-13.00	-40.12	peak	
5	721.6100	-59.07	7.94	-51.13	-13.00	-38.13	peak	
6 *	977.6900	-60.73	10.44	-50.29	-13.00	-37.29	peak	

Test Mode : LTE Band 5_TX CH20525_10MHz

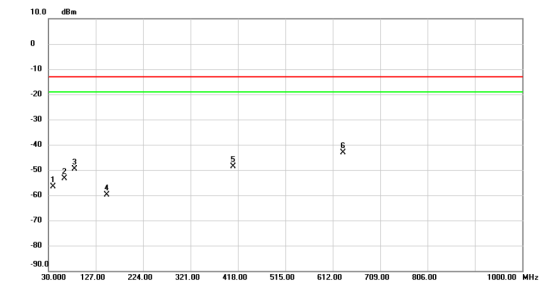
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	48.9150	-60.85	-1.99	-62.84	-13.00	-49.84	peak	
2	150.7650	-61.54	-1.71	-63.25	-13.00	-50.25	peak	
3	548.4650	-60.84	4.33	-56.51	-13.00	-43.51	peak	
4	622.6700	-59.32	6.17	-53.15	-13.00	-40.15	peak	
5	749.2550	-59.80	8.81	-50.99	-13.00	-37.99	peak	
6 *	914.1550	-58.84	9.93	-48.91	-13.00	-35.91	peak	

Test Mode : LTE Band 26_TX CH26915_1.4MHz

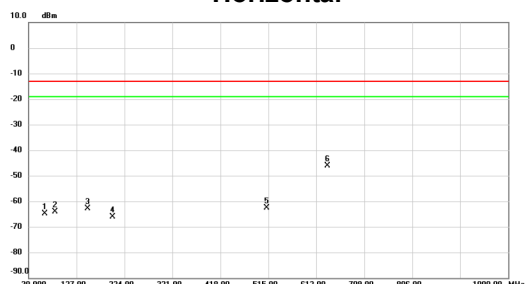
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	39.7000	-65.35	8.66	-56.69	-13.00	-43.69	peak	
2	62.4950	-61.61	8.27	-53.34	-13.00	-40.34	peak	
3	83.3500	-53.55	4.00	-49.55	-13.00	-36.55	peak	
4	149.7950	-68.95	9.20	-59.75	-13.00	-46.75	peak	
5	407.8150	-60.36	11.63	-48.73	-13.00	-35.73	peak	
6 *	632.8550	-59.17	16.02	-43.15	-13.00	-30.15	peak	

Test Mode : LTE Band 26_TX CH26915_1.4MHz

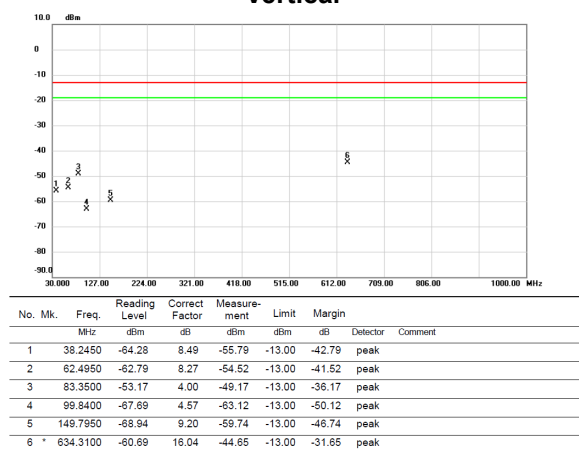
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	63.4650	-72.95	8.13	-64.82	-13.00	-51.82	peak	
2	83.3500	-68.19	4.00	-64.19	-13.00	-51.19	peak	
3	149.7950	-72.12	9.20	-62.92	-13.00	-49.92	peak	
4	199.7500	-72.03	5.93	-66.10	-13.00	-53.10	peak	
5	511.6050	-76.32	13.67	-62.65	-13.00	-49.65	peak	
6 *	634.7950	-62.25	16.04	-46.21	-13.00	-33.21	peak	

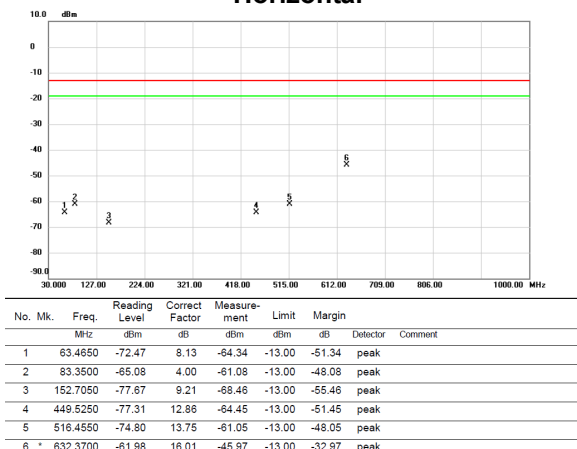
Test Mode : LTE Band 26_TX CH26915_5MHz

Vertical



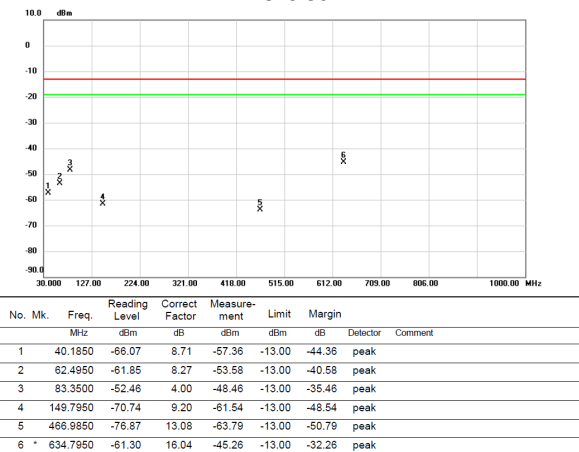
Test Mode : LTE Band 26_TX CH26915_5MHz

Horizontal



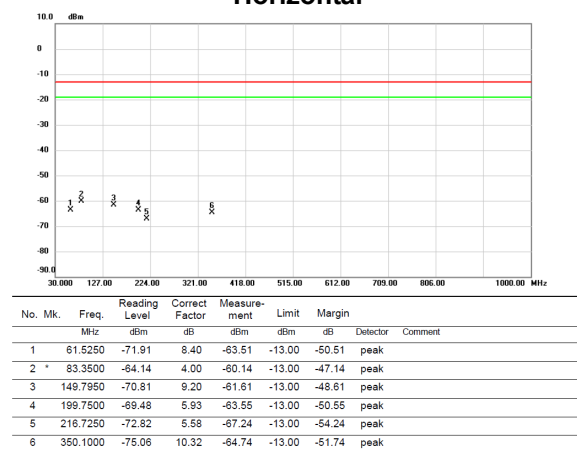
Test Mode : LTE Band 26_TX CH26915_15MHz

Vertical



Test Mode : LTE Band 26_TX CH26915_15MHz

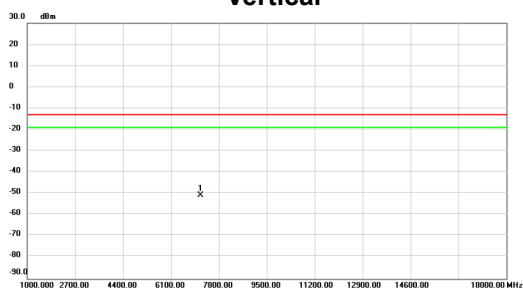
Horizontal



APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : GSM850_TX CH190_GSM

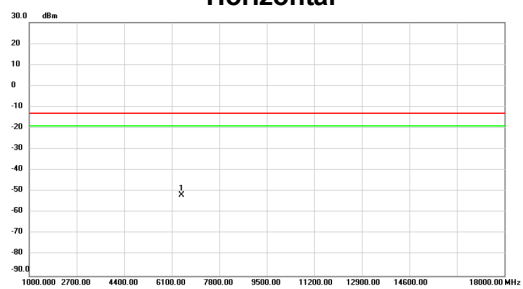
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	7145.500	-68.65	17.77	-50.88	-13.00	-37.88	peak	

Test Mode : GSM850_TX CH190_GSM

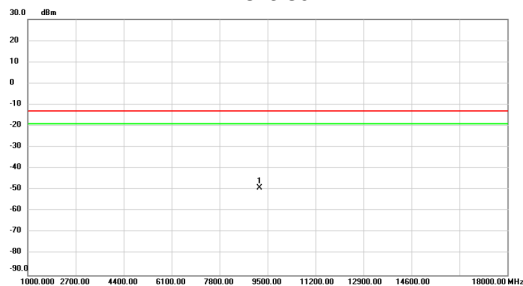
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	6457.000	-69.16	17.32	-51.84	-13.00	-38.84	peak	

Test Mode : WCDMA Band V_TX CH4182

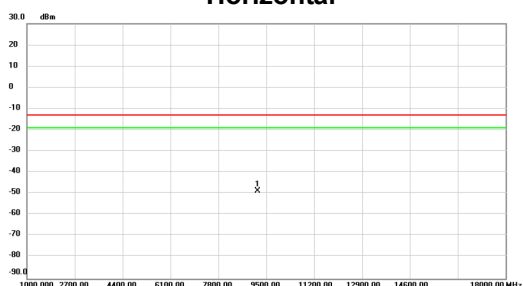
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	9211.000	-67.87	18.83	-49.04	-13.00	-36.04	peak	

Test Mode : WCDMA Band V_TX CH4182

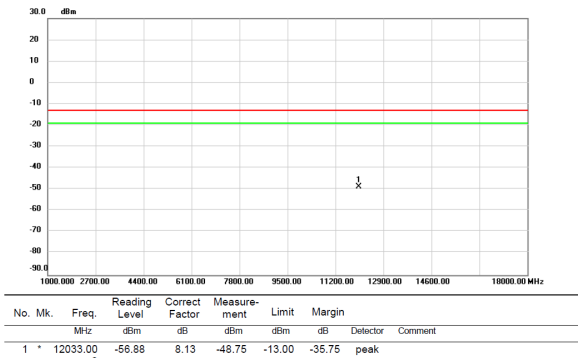
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	9194.000	-67.67	18.83	-48.84	-13.00	-35.84	peak	

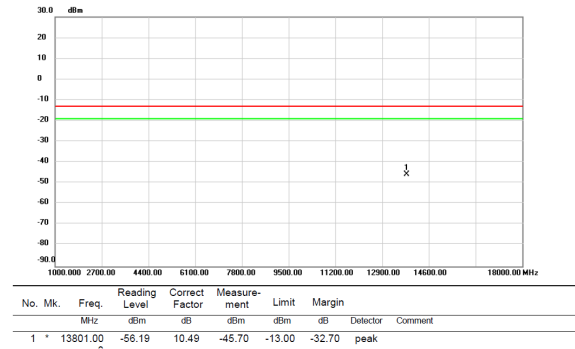
Test Mode : LTE Band 5_TX CH20525_1.4MHz

Vertical



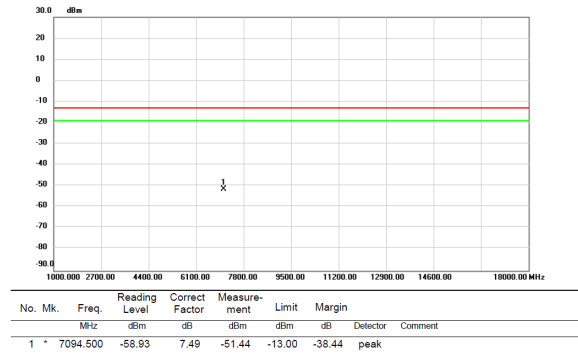
Test Mode : LTE Band 5_TX CH20525_1.4MHz

Horizontal



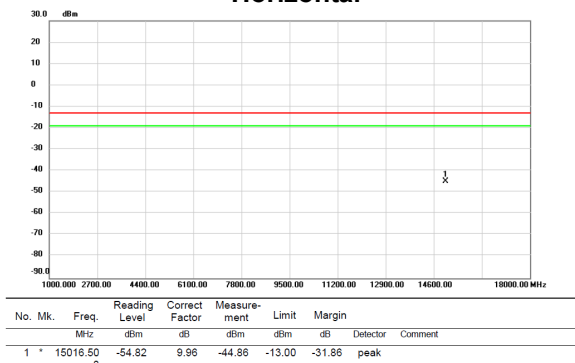
Test Mode : LTE Band 5_TX CH20525_5MHz

Vertical



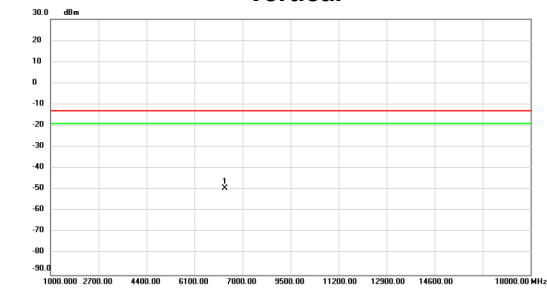
Test Mode : LTE Band 5_TX CH20525_5MHz

Horizontal



Test Mode : LTE Band 5_TX CH20525_10MHz

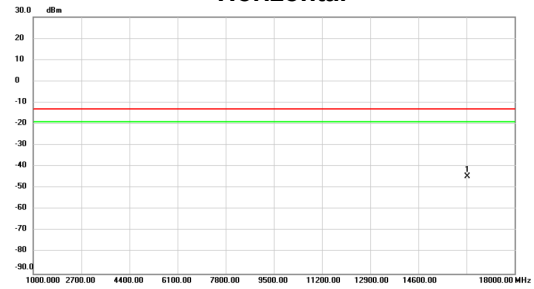
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	7179.500	-56.84	7.56	-49.28	-13.00	-36.28	peak	

Test Mode : LTE Band 5_TX CH20525_10MHz

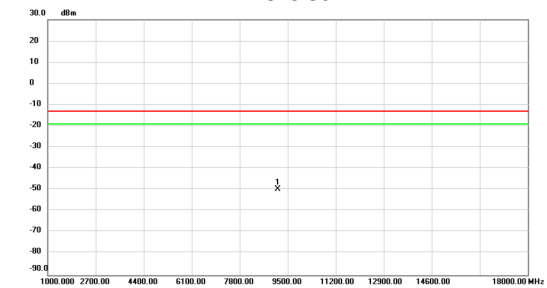
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16342.50	-55.35	10.66	-44.69	-13.00	-31.69	peak	

Test Mode : LTE Band 26_TX CH26915_1.4MHz

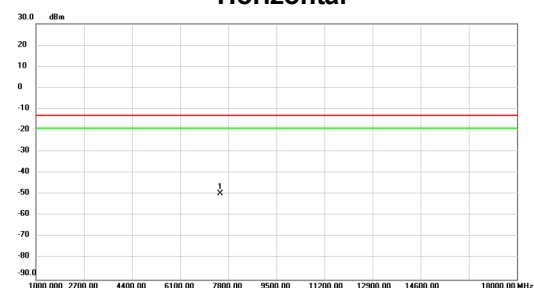
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	9143.000	-69.44	19.70	-49.74	-13.00	-36.74	peak	

Test Mode : LTE Band 26_TX CH26915_1.4MHz

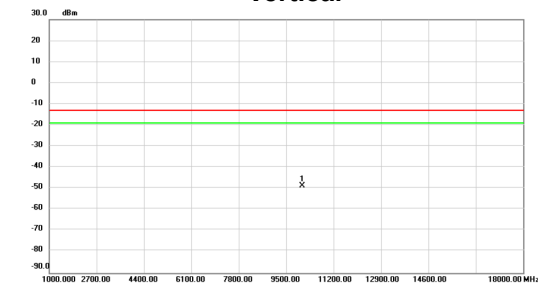
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	7519.500	-69.27	19.55	-49.72	-13.00	-36.72	peak	

Test Mode : LTE Band 26_TX CH26915_5MHz

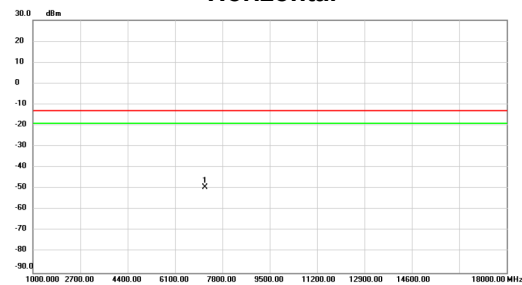
Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
1 *	10086.50	-68.60	19.76	-48.84	-13.00	-35.84	peak	

Test Mode : LTE Band 26_TX CH26915_5MHz

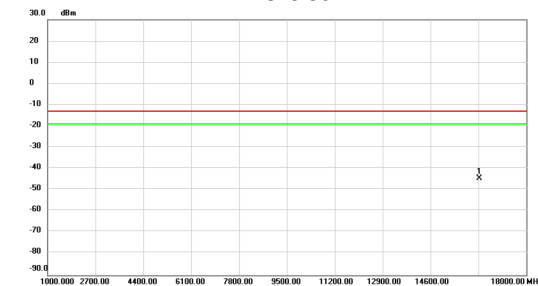
Horizontal



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
1 *	7179.500	-68.58	19.30	-49.28	-13.00	-36.28	peak	

Test Mode : LTE Band 26_TX CH26915_15MHz

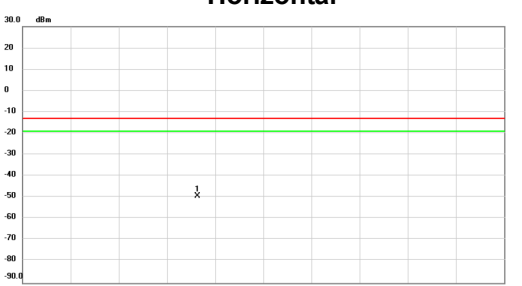
Vertical



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
1 *	16342.50	-67.09	22.40	-44.69	-13.00	-31.69	peak	

Test Mode : LTE Band 26_TX CH26915_15MHz

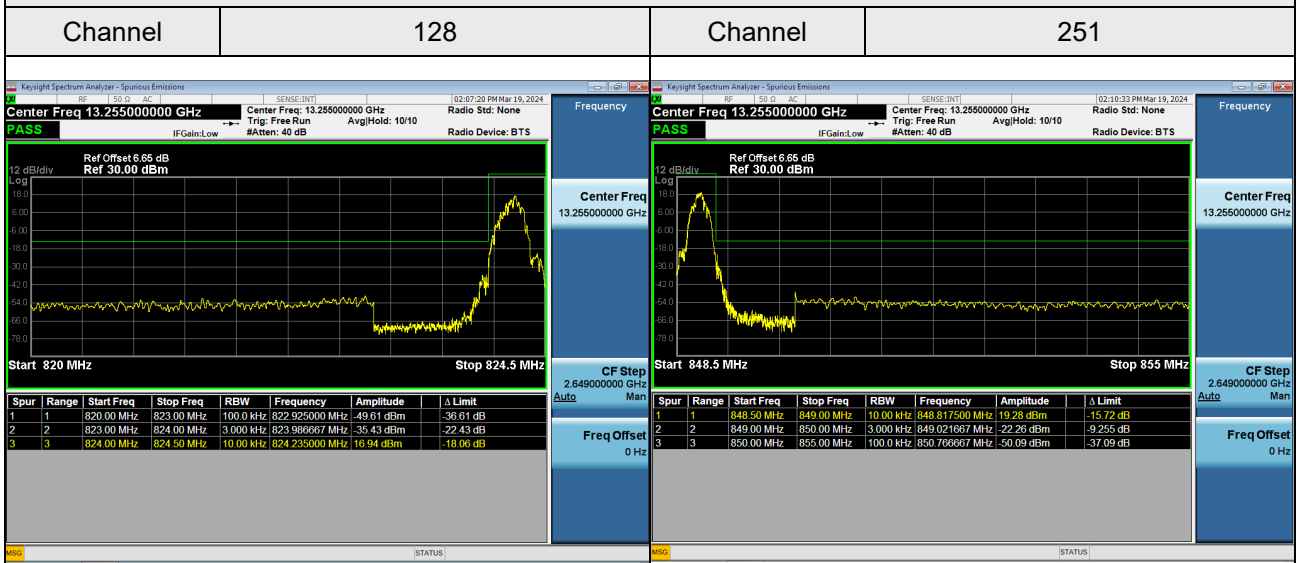
Horizontal



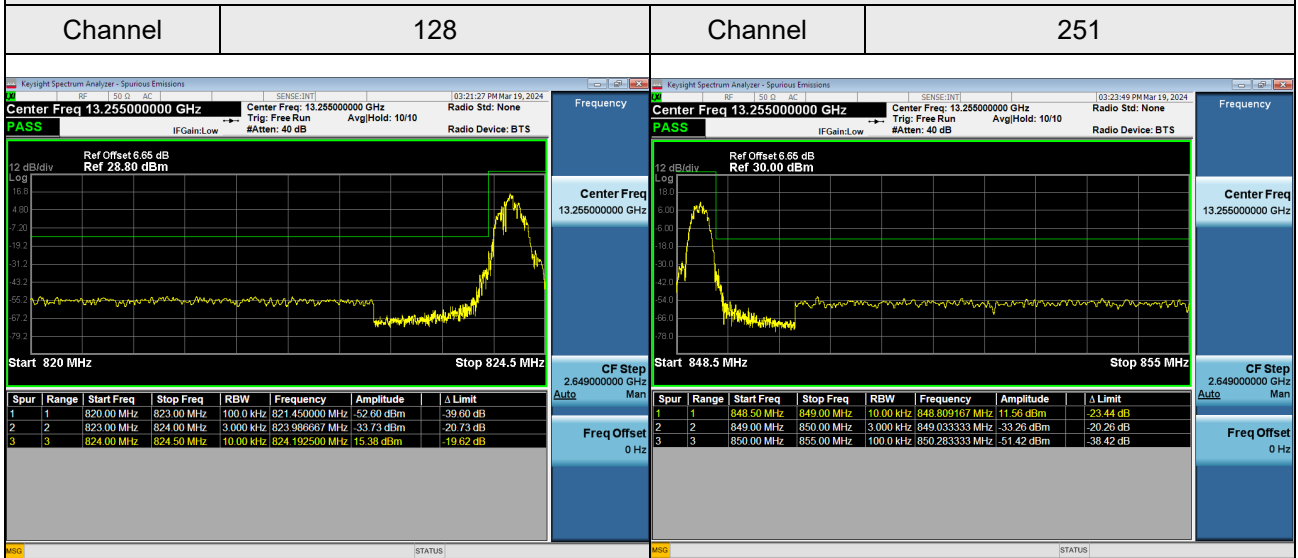
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
1 *	7179.500	-68.58	19.30	-49.28	-13.00	-36.28	peak	

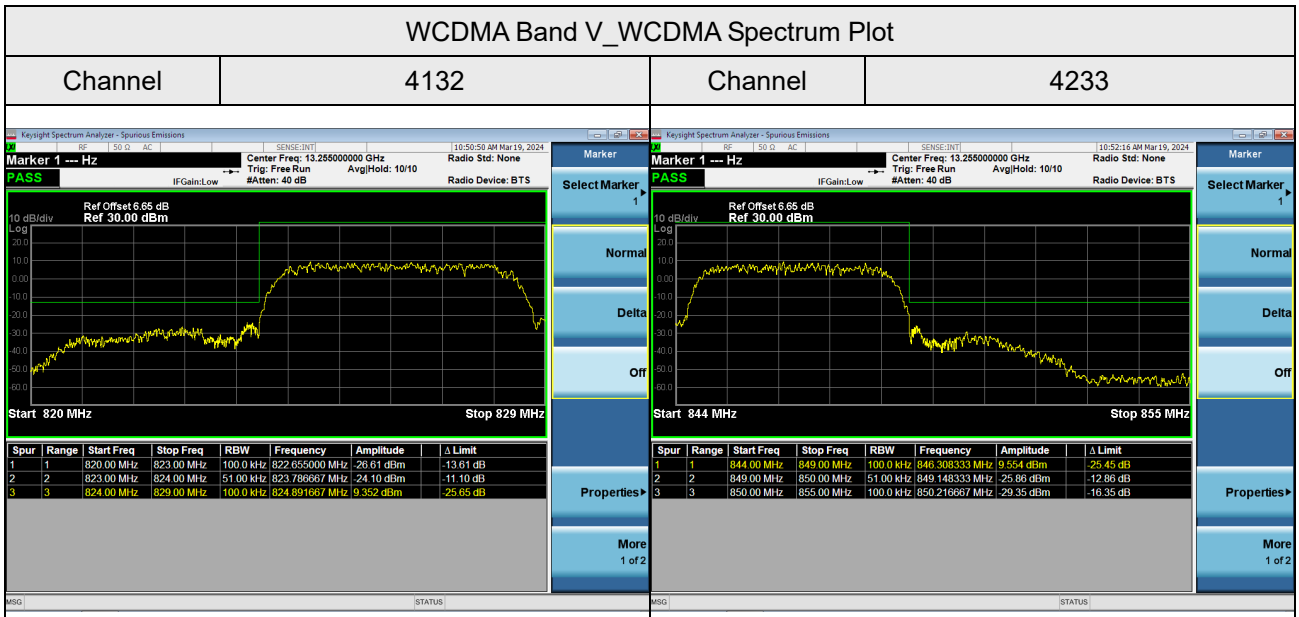
APPENDIX G - BAND EDGE

GSM850_GSM Spectrum Plot



GSM850_EDGE Spectrum Plot





LTE Band 5_1.4MHz Spectrum Plot

1RB#0

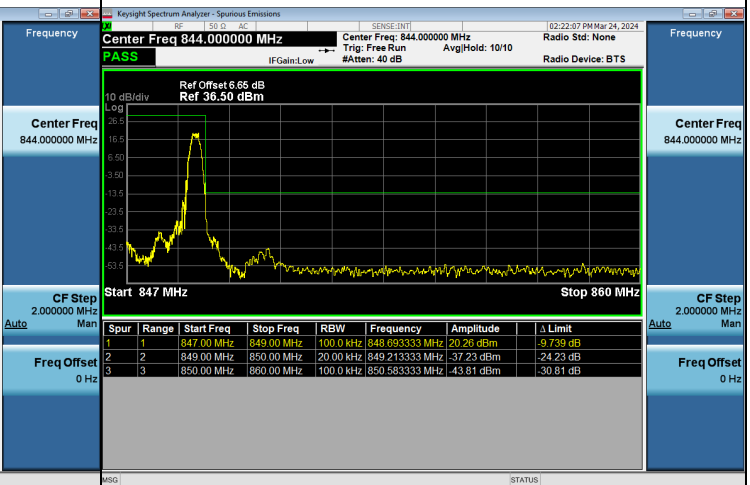
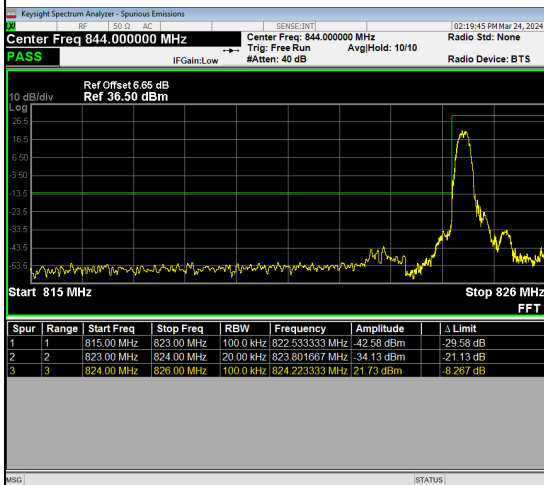
1RB#5

Channel

20407

Channel

20643



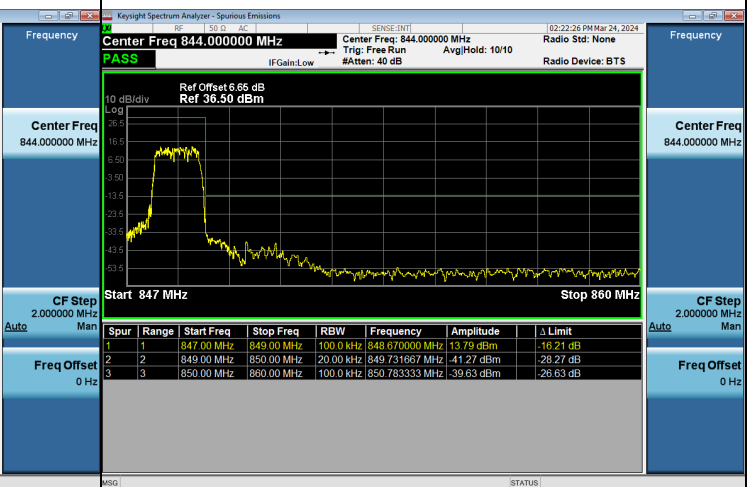
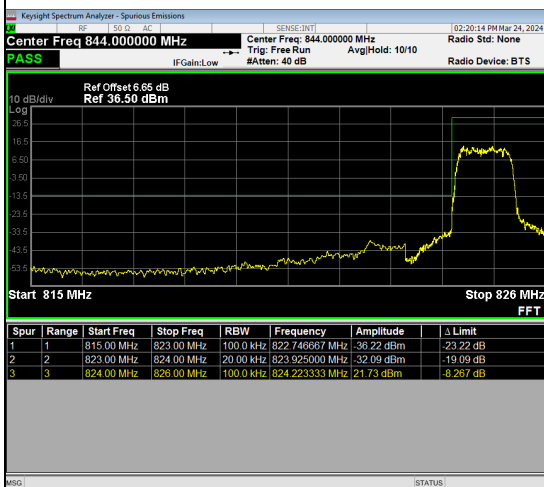
6RB#0

Channel

20407

Channel

0643



LTE Band 5_3MHz Spectrum Plot

1RB#0

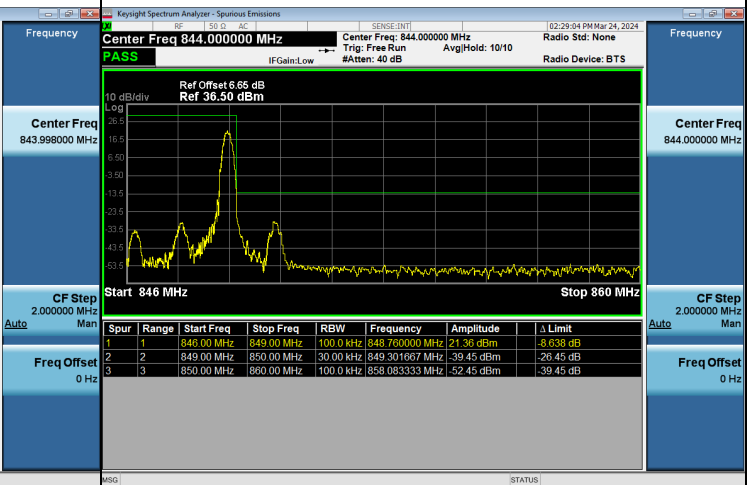
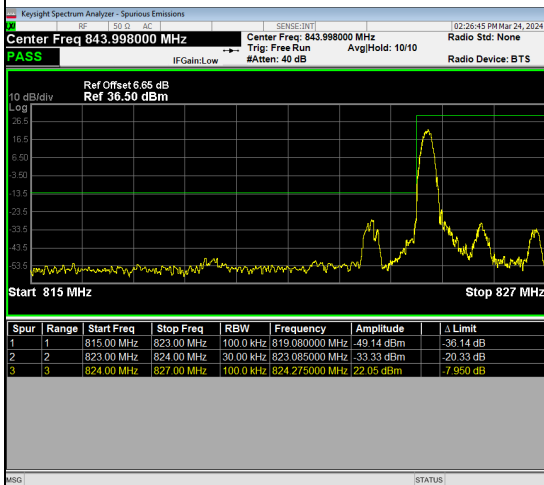
1RB#14

Channel

20415

Channel

20635



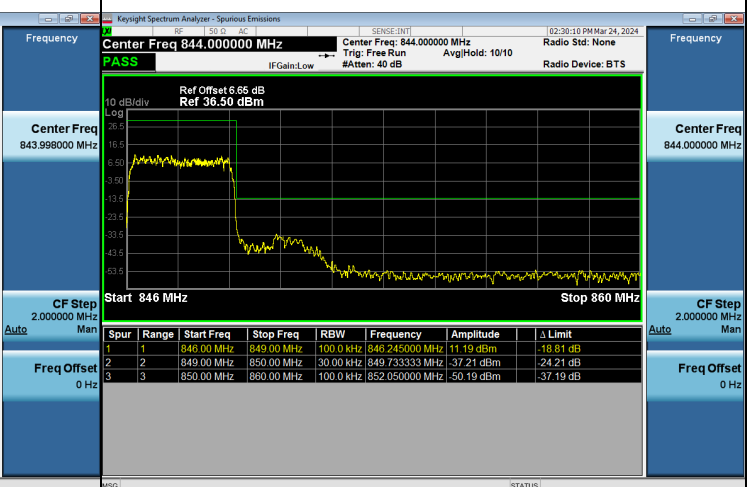
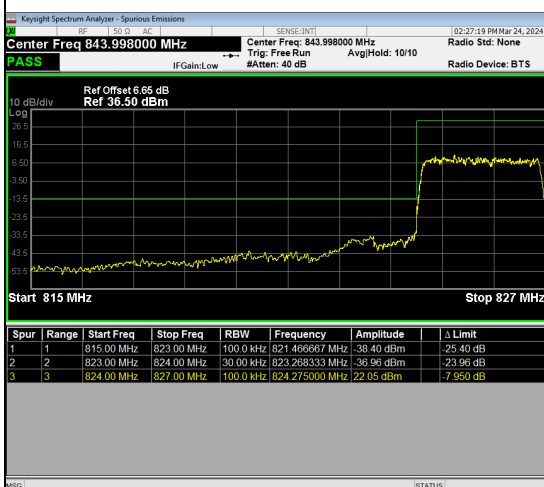
15RB#0

Channel

20415

Channel

20635



LTE Band 5_5MHz Spectrum Plot

1RB#0

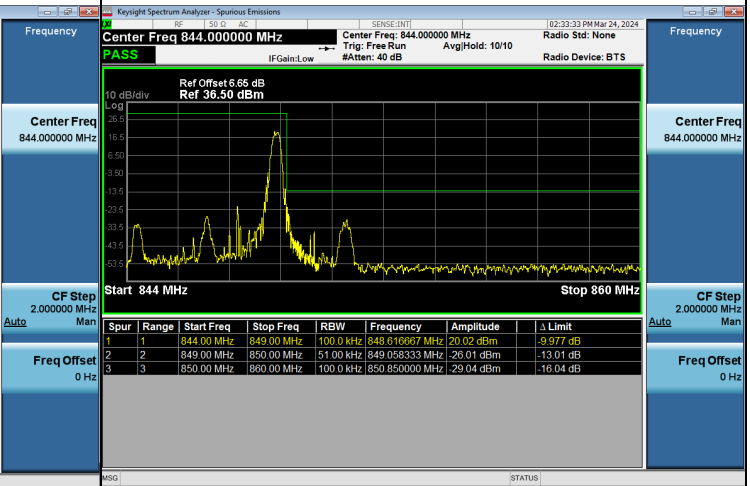
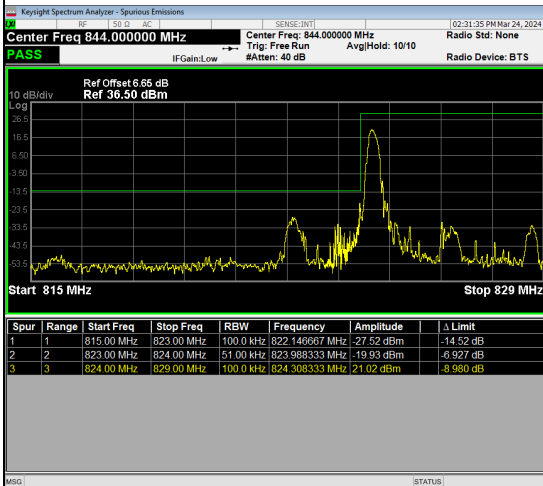
1RB#24

Channel

20425

Channel

20625



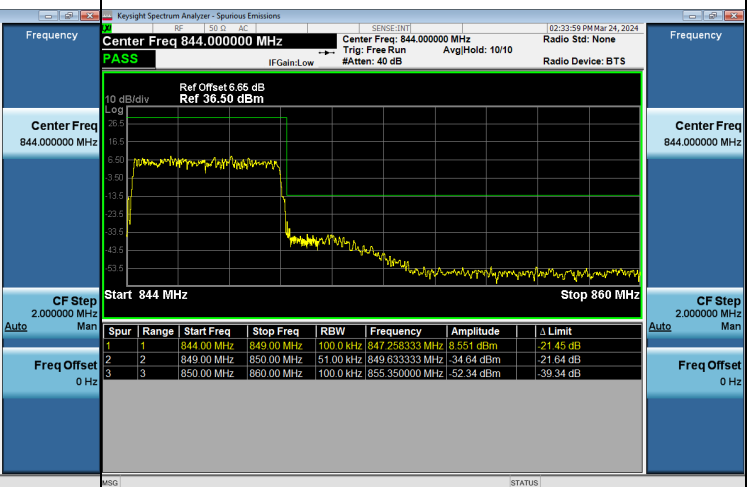
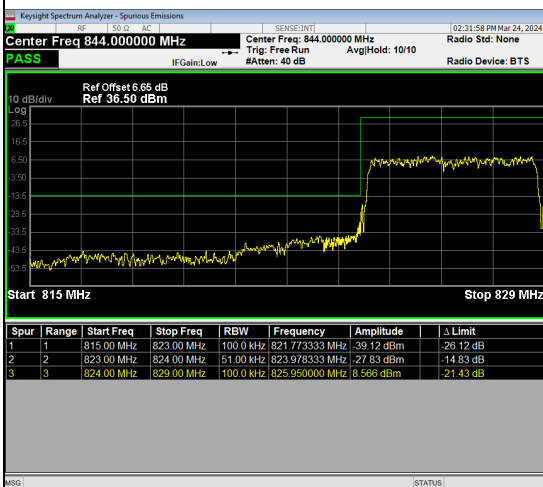
25RB#0

Channel

20425

Channel

20625



LTE Band 5_10MHz Spectrum Plot

1RB#0

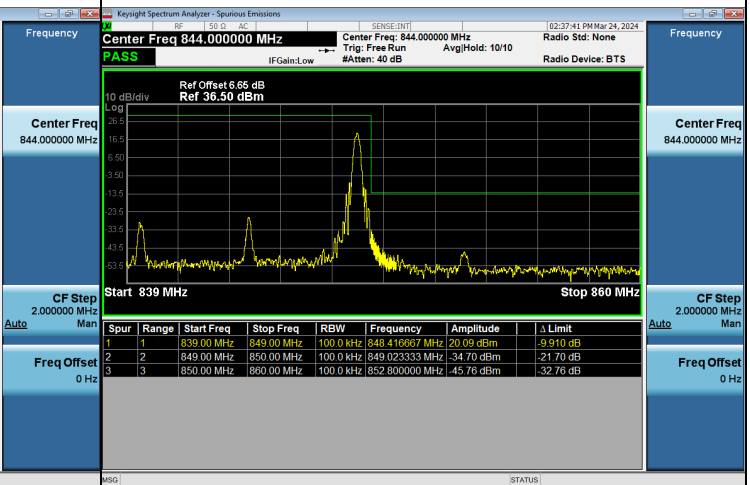
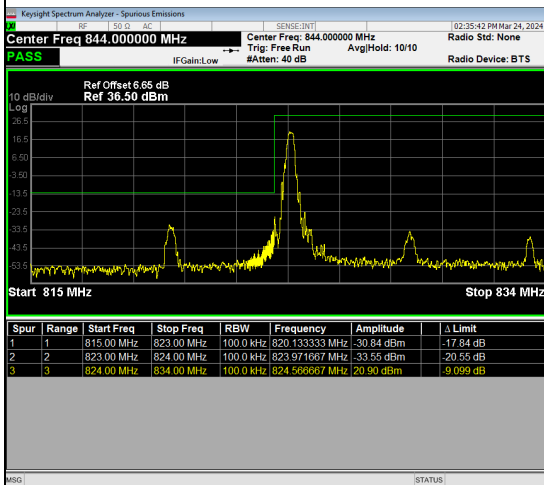
1RB#49

Channel

20450

Channel

20600



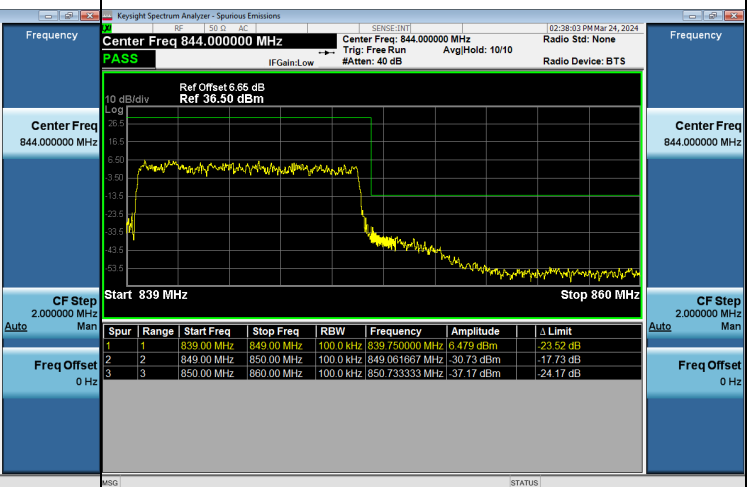
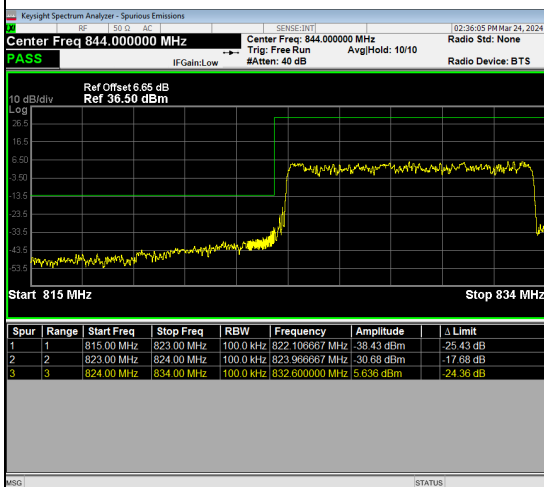
50RB#0

Channel

20450

Channel

20600



LTE Band 26_1.4MHz Spectrum Plot

1RB#0

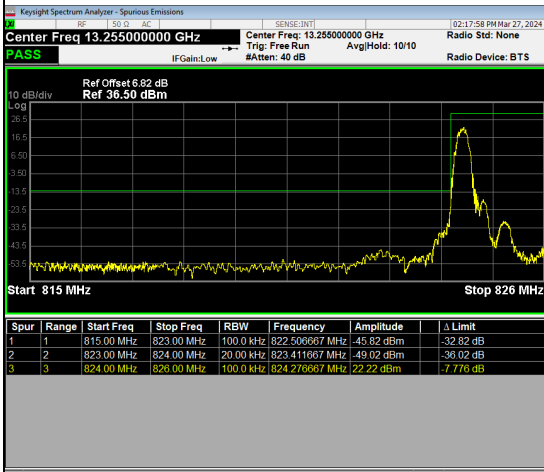
1RB#5

Channel

26797

Channel

27033



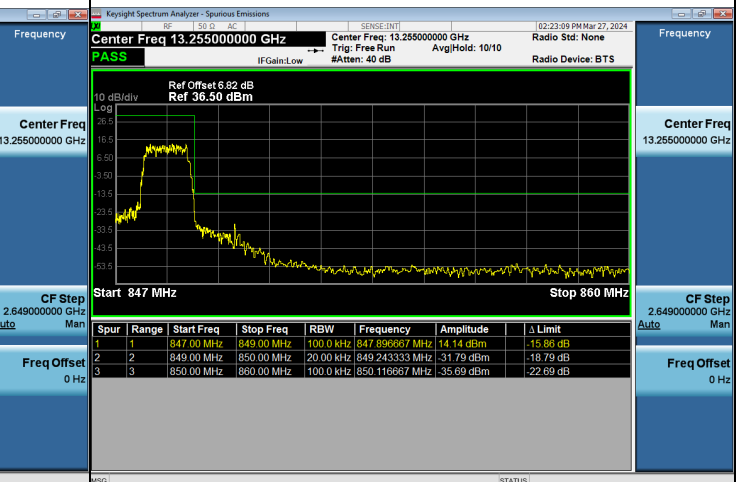
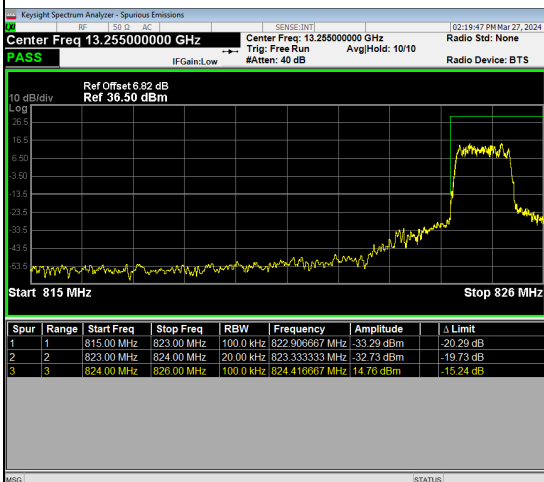
6RB#0

Channel

26797

Channel

27033



LTE Band 26_3MHz Spectrum Plot

1RB#0

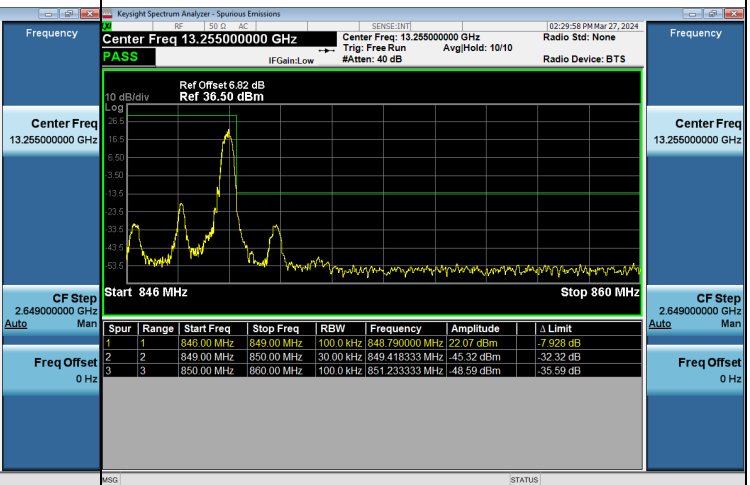
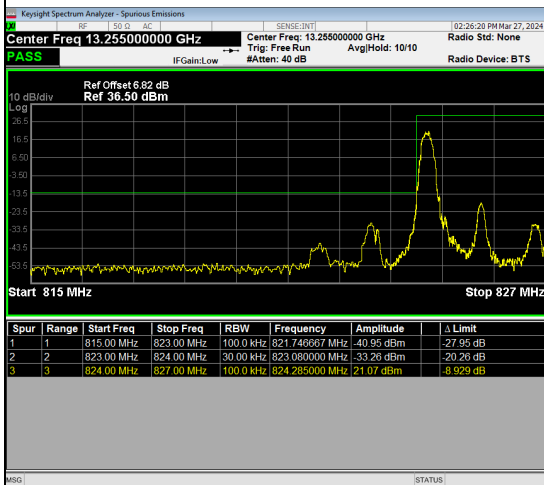
1RB#14

Channel

26805

Channel

27025



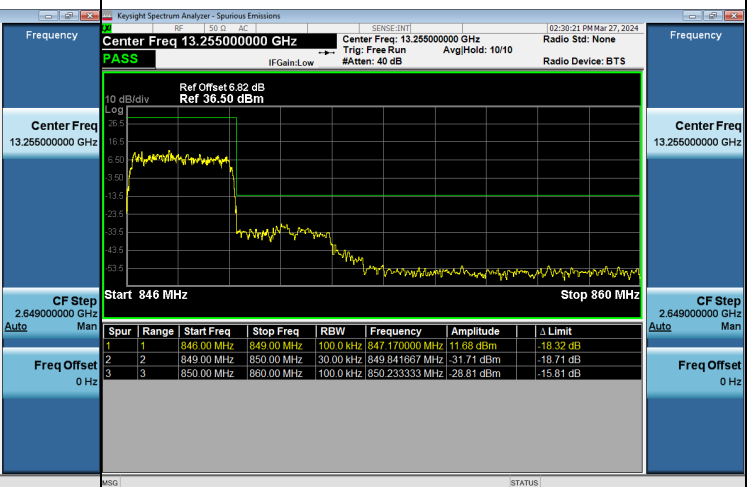
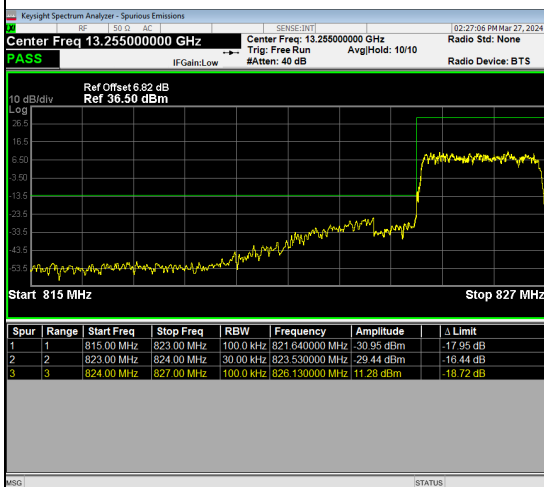
15RB#0

Channel

26805

Channel

27025



LTE Band 26_5MHz Spectrum Plot

1RB#0

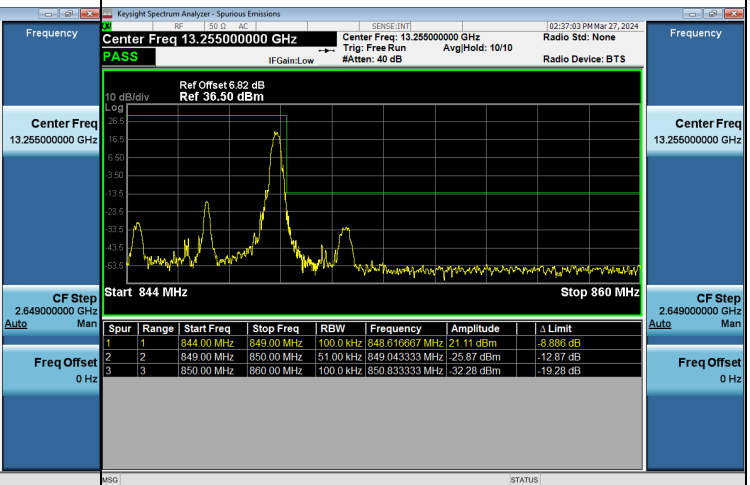
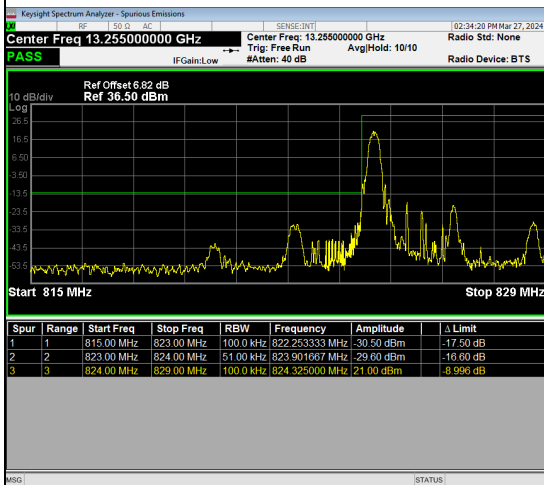
1RB#24

Channel

26815

Channel

27015



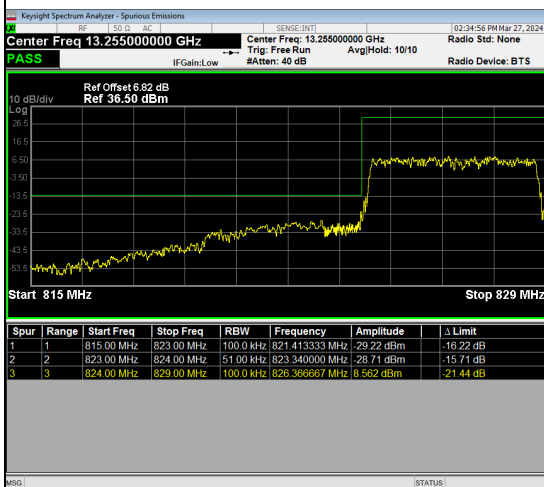
25RB#0

Channel

26815

Channel

27015



LTE Band 26_10MHz Spectrum Plot

1RB#0

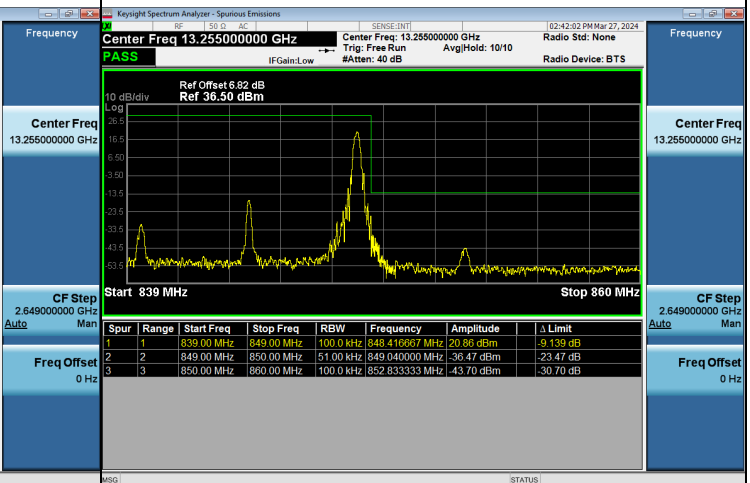
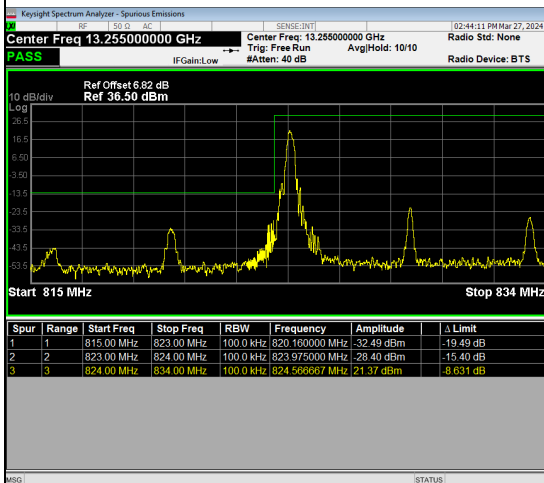
1RB#49

Channel

26840

Channel

26690



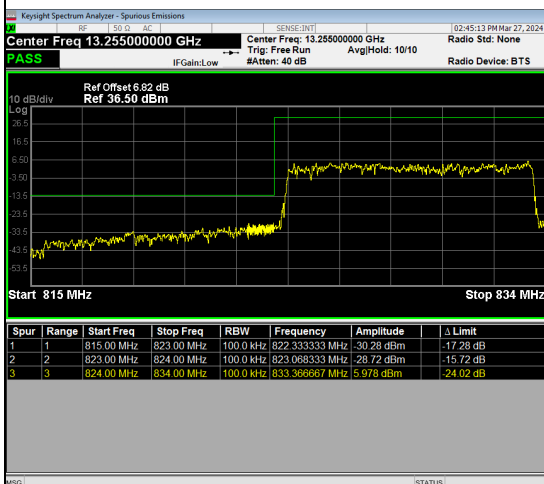
50RB#0

Channel

26840

Channel

26690



LTE Band 26_15MHz Spectrum Plot

1RB#0

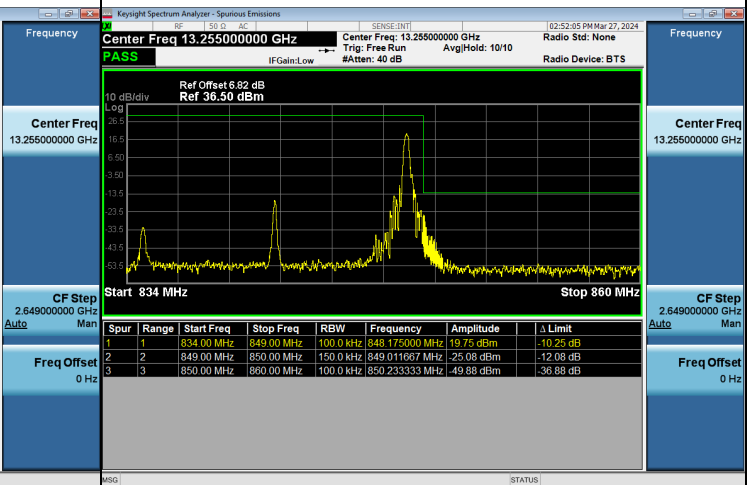
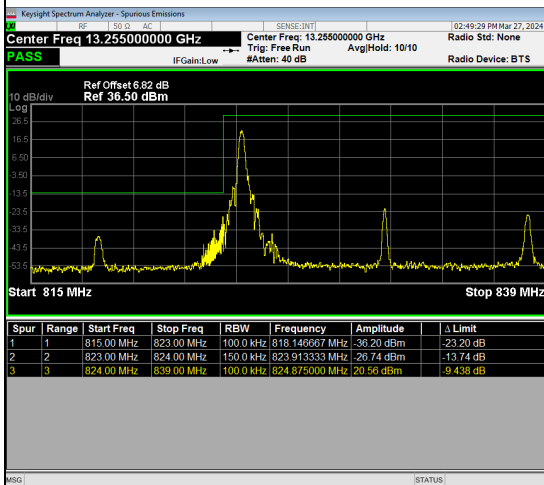
1RB#74

Channel

26865

Channel

26965



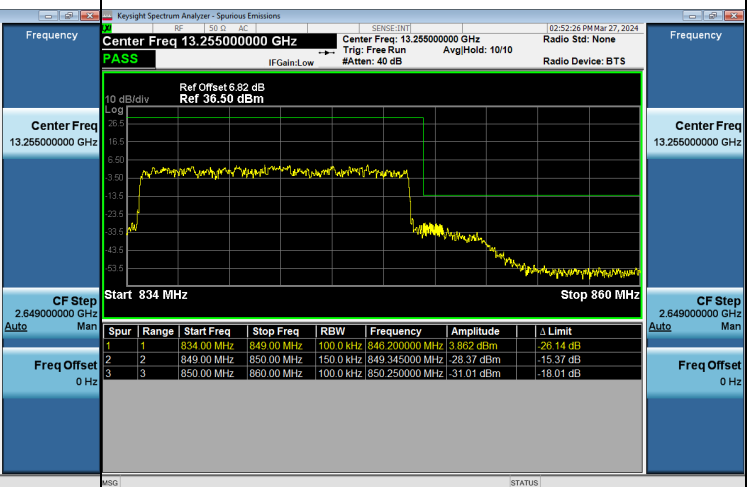
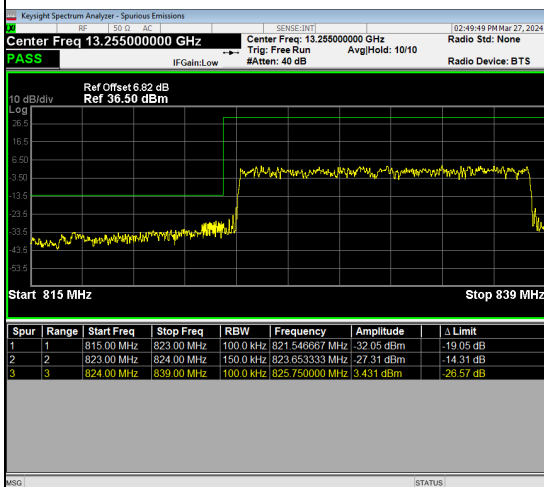
75RB#0

Channel

26865

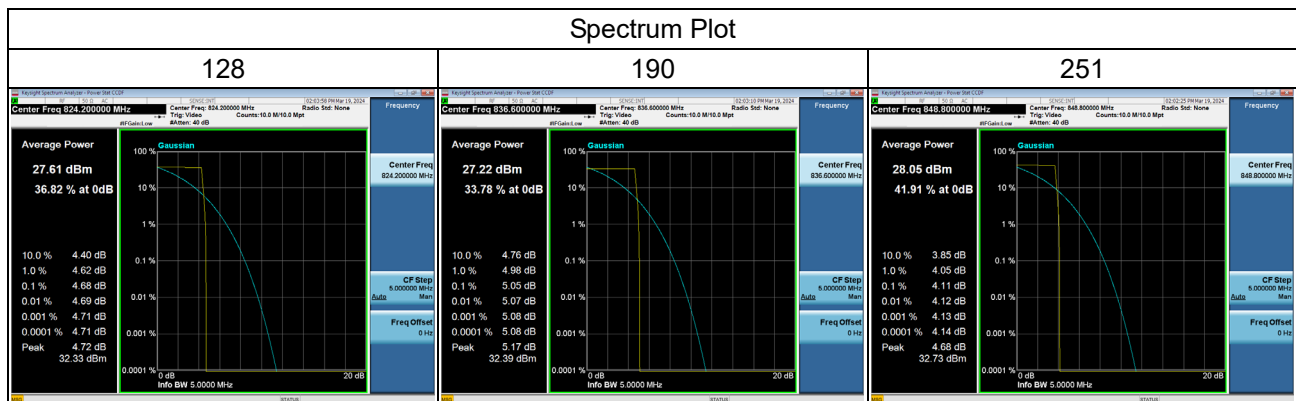
Channel

26965

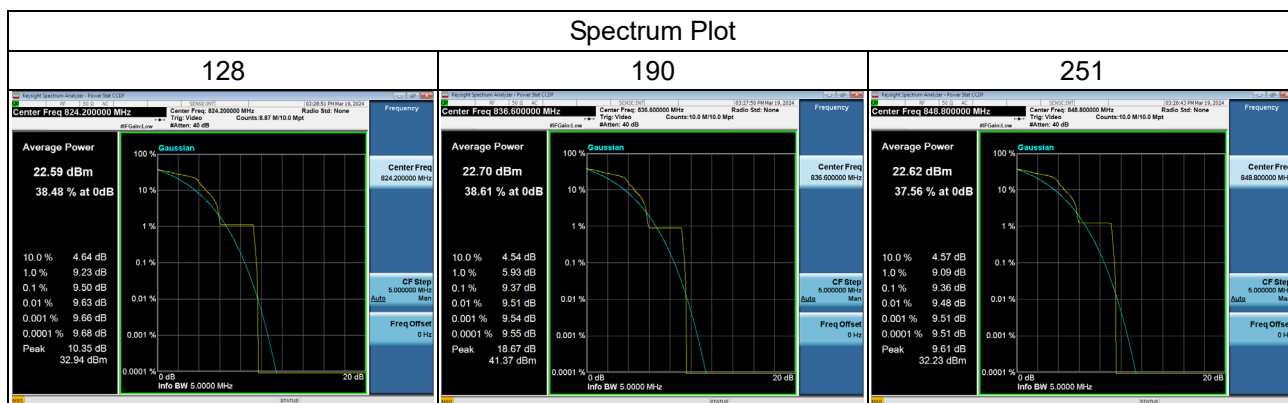


APPENDIX H - PEAK TO AVERAGE RATIO

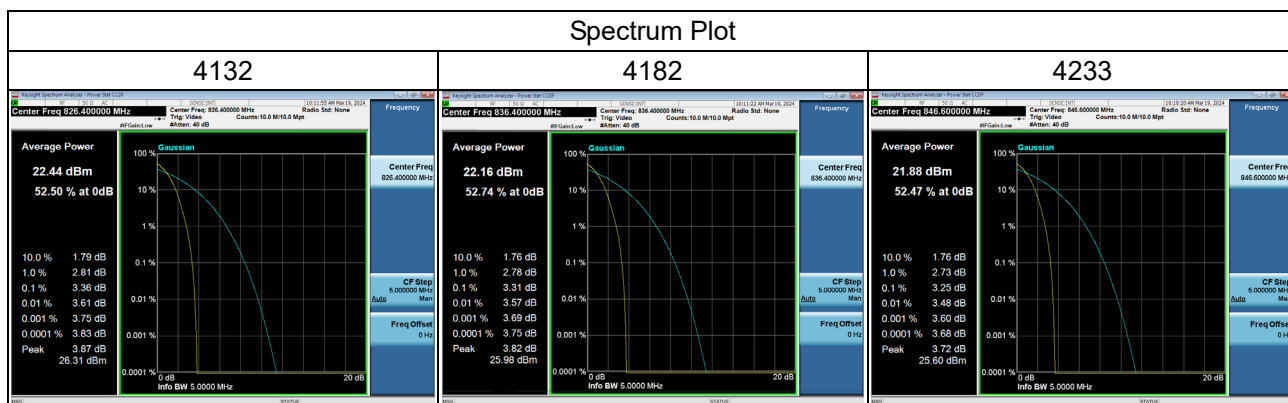
GSM 850_GSM				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
128	824.2	4.68	13	Pass
190	836.6	5.05	13	Pass
251	848.8	4..11	13	Pass



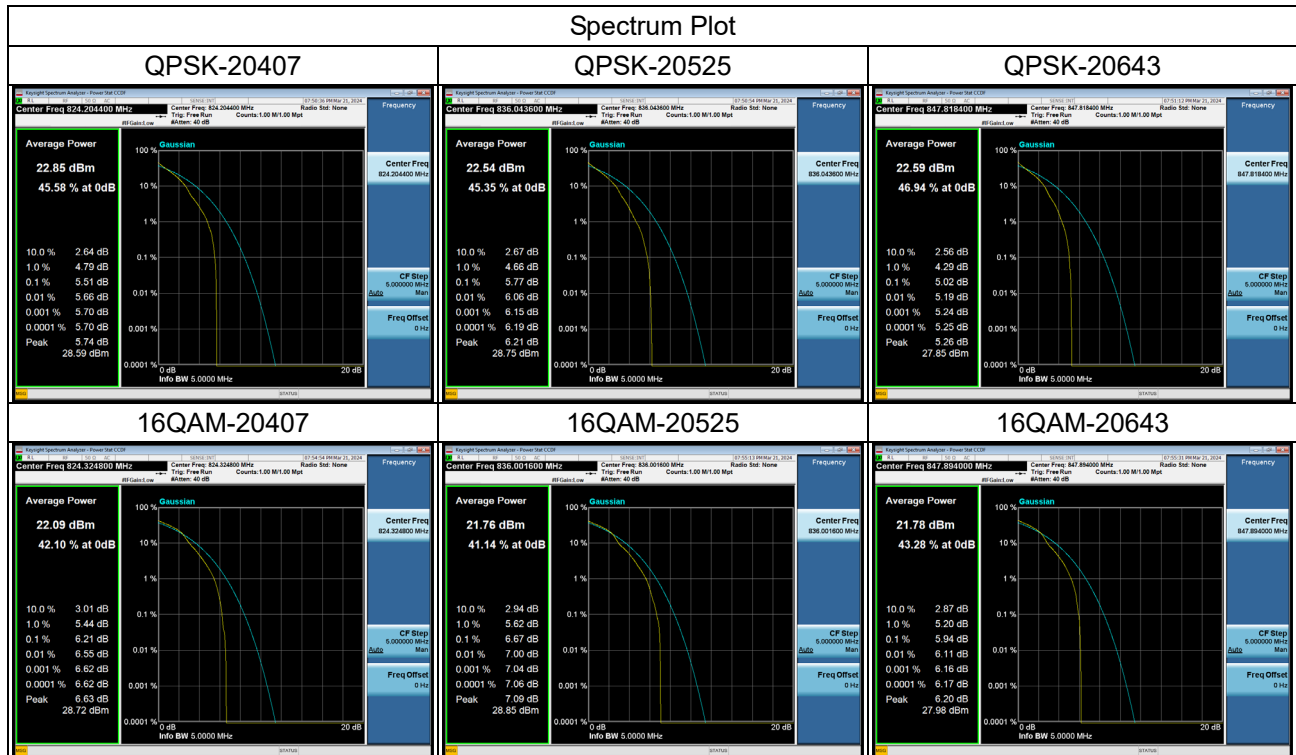
GSM 850_EDGE				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
128	824.2	9.50	13	Pass
190	836.6	9.37	13	Pass
251	848.8	9.36	13	Pass



WCDMA Band V_WCDMA				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
4132	826.4	3.36	13	Pass
4182	836.4	3.31	13	Pass
4233	846.6	3.25	13	Pass



LTE Band 5_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
20407	824.7	5.51	6.21	13	Pass
20525	836.5	5.77	6.67	13	Pass
20643	848.3	5.02	5.94	13	Pass



LTE Band 5_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
20415	825.5	5.42	6.30	13	Pass
20525	836.5	5.73	6.65	13	Pass
20635	847.5	5.15	5.93	13	Pass

