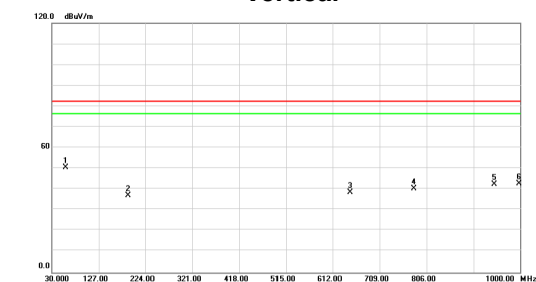


Test Mode : WCDMA Band V_TX CH4182

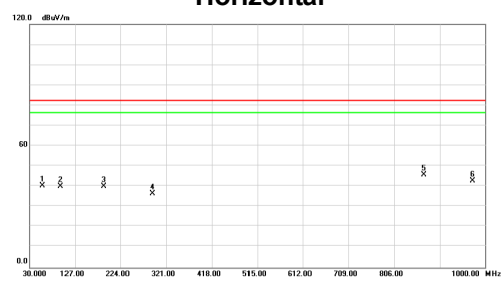
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	58.615	52.51	-1.96	50.55	82.30	-31.75	peak	
2	188.595	40.52	-3.54	36.98	82.30	-45.32	peak	
3	647.890	30.54	8.06	38.60	82.30	-43.70	peak	
4	779.325	30.19	10.24	40.43	82.30	-41.87	peak	
5	946.165	30.36	12.00	42.36	82.30	-39.94	peak	
6	998.060	30.63	12.15	42.78	82.30	-39.52	peak	

Test Mode : WCDMA Band V_TX CH4182

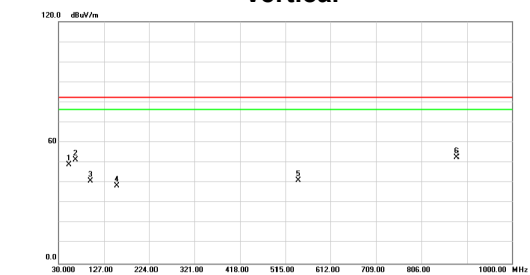
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	58.130	42.15	-1.91	40.24	82.30	-42.06	peak	
2	96.445	46.59	-6.61	39.98	82.30	-42.32	peak	
3	188.595	43.46	-3.54	39.92	82.30	-42.38	peak	
4	292.385	37.19	-0.73	36.46	82.30	-45.84	peak	
5 *	870.020	34.85	10.87	45.72	82.30	-36.58	peak	
6	973.325	30.76	12.11	42.87	82.30	-39.43	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

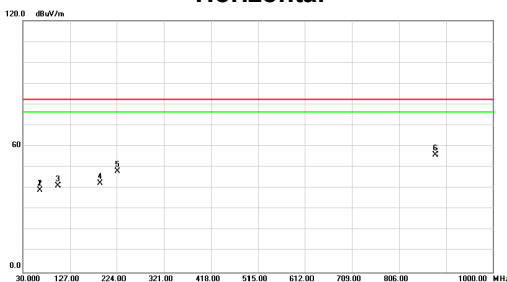
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	52.310	50.48	-1.56	48.92	82.30	-33.38	peak	
2	66.375	54.38	-3.00	51.38	82.30	-30.92	peak	
3	98.870	47.33	-6.27	41.06	82.30	-41.24	peak	
4	154.160	39.82	-1.25	38.57	82.30	-43.73	peak	
5	542.160	35.72	5.54	41.26	82.30	-41.04	peak	
6 *	881.660	41.68	10.98	52.66	82.30	-29.64	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

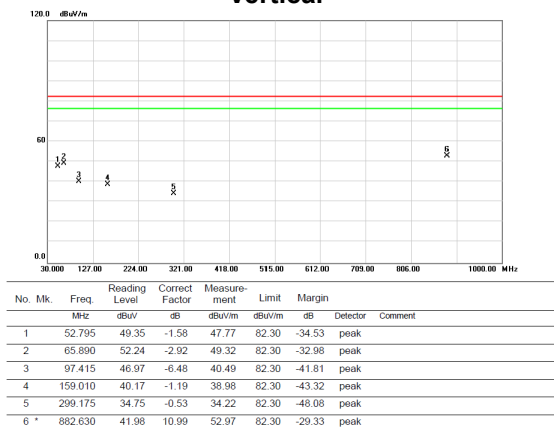
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	65.405	42.05	-2.83	39.22	82.30	-43.08	peak	
2	65.405	42.05	-2.83	39.22	82.30	-43.08	peak	
3	103.235	46.88	-5.65	41.23	82.30	-41.07	peak	
4	189.080	46.00	-3.60	42.40	82.30	-39.90	peak	
5	225.455	52.27	-4.08	48.19	82.30	-34.11	peak	
6 *	881.175	44.86	10.97	55.83	82.30	-26.47	peak	

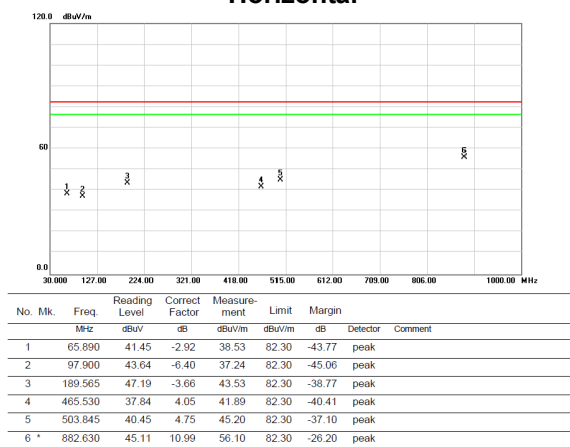
Test Mode : LTE Band 5_TX CH20525_5MHz

Vertical



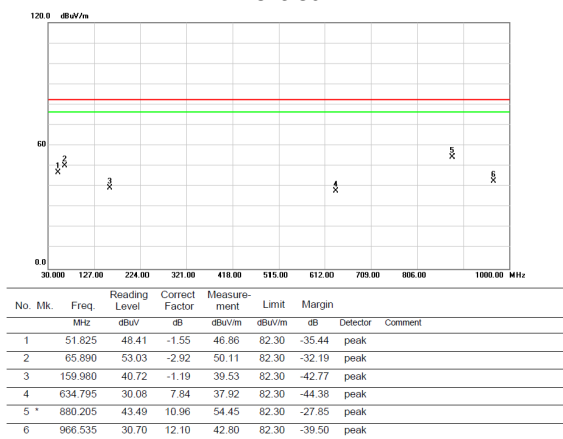
Test Mode : LTE Band 5_TX CH20525_5MHz

Horizontal



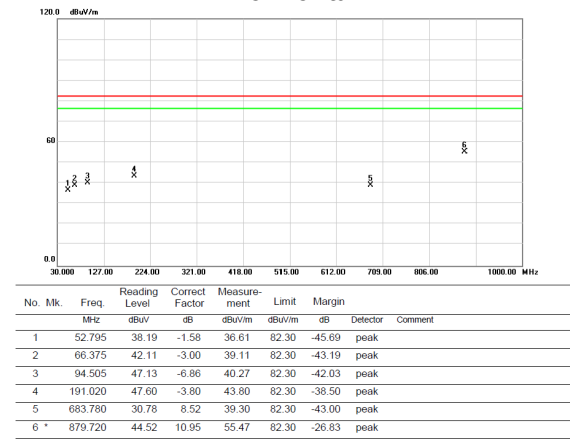
Test Mode : LTE Band 5_TX CH20525_10MHz

Vertical



Test Mode : LTE Band 5_TX CH20525_10MHz

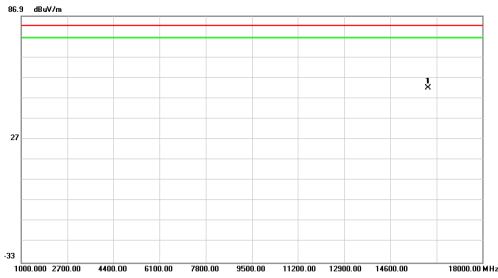
Horizontal



APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : WCDMA Band V_TX CH4182

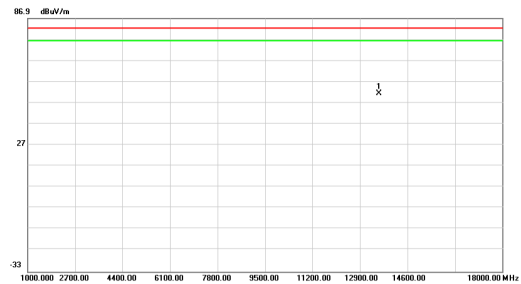
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBμV	dB	dBμV/m	dBμV/m	dB	Detector	Comment
1	*	16002.500	40.20	11.83	52.03	62.30	-30.27	peak	

Test Mode : WCDMA Band V_TX CH4182

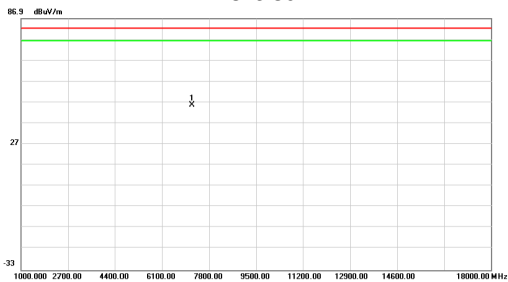
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBμV	dB	dBμV/m	dBμV/m	dB	Detector	Comment
1	*	13580.000	39.57	11.90	51.47	82.30	-30.83	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

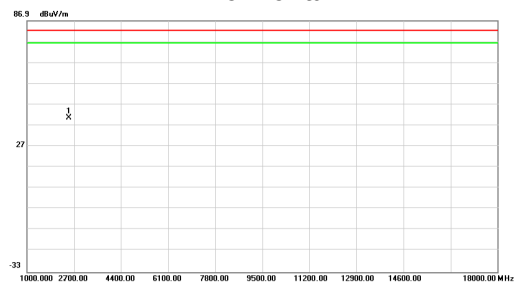
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBμV	dB	dBμV/m	dBμV/m	dB	Detector	Comment
1	*	7179.500	37.08	8.65	45.73	82.30	-36.57	peak	

Test Mode : LTE Band 5_TX CH20525_1.4MHz

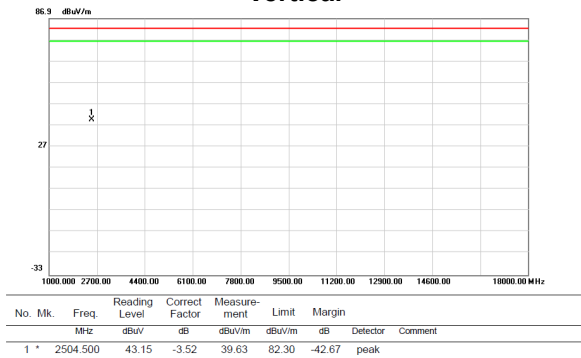
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBμV	dB	dBμV/m	dBμV/m	dB	Detector	Comment
1	*	2504.500	44.22	-3.52	40.70	82.30	-41.60	peak	

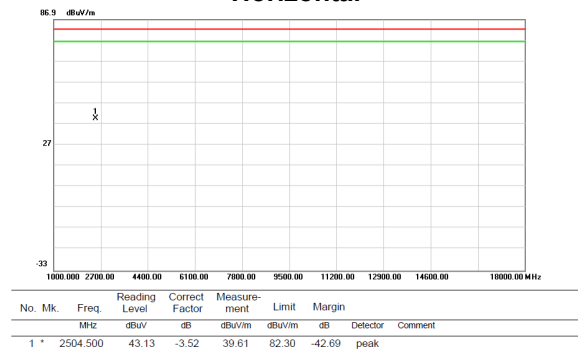
Test Mode : LTE Band 5_TX CH20525_5MHz

Vertical



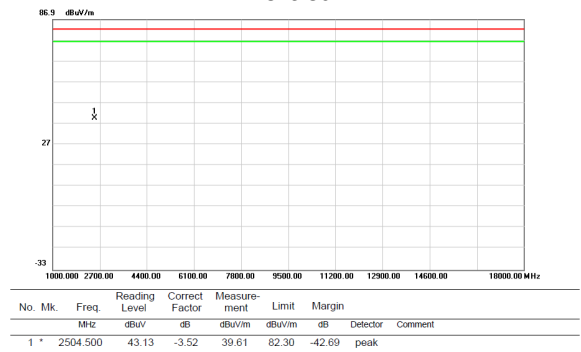
Test Mode : LTE Band 5_TX CH20525_5MHz

Horizontal



Test Mode : LTE Band 5_TX CH20525_10MHz

Vertical

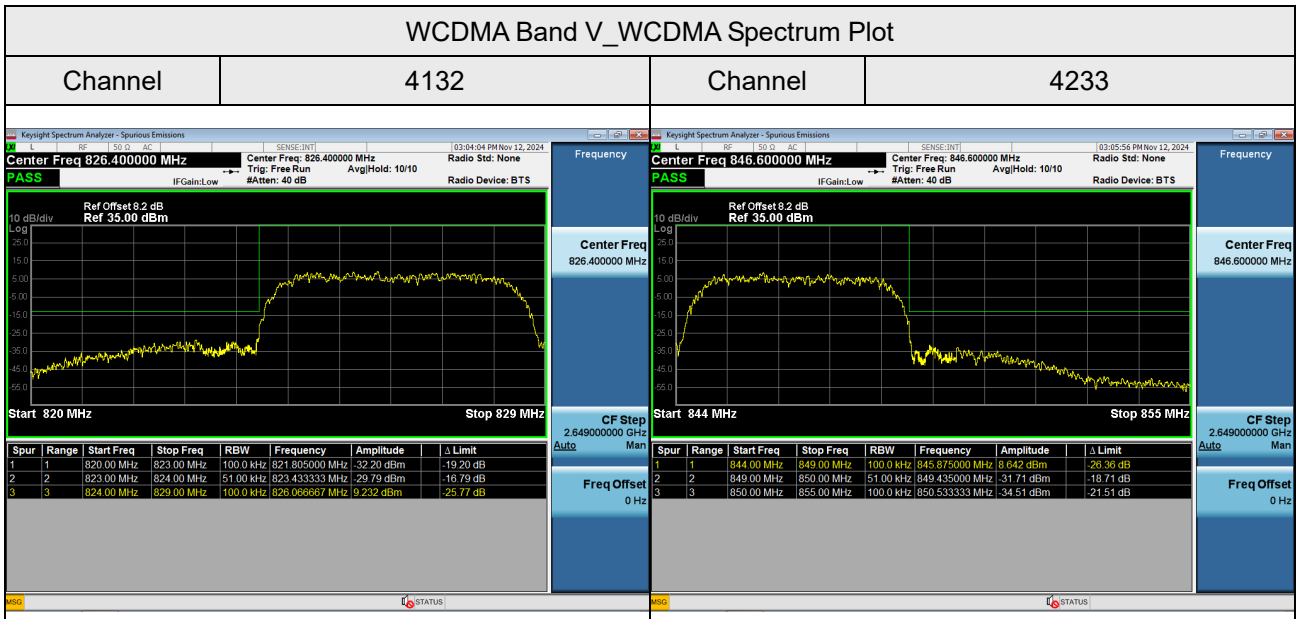


Test Mode : LTE Band 5_TX CH20525_10MHz

Horizontal



APPENDIX G - BAND EDGE



LTE Band 5_1.4MHz Spectrum Plot

1RB#0

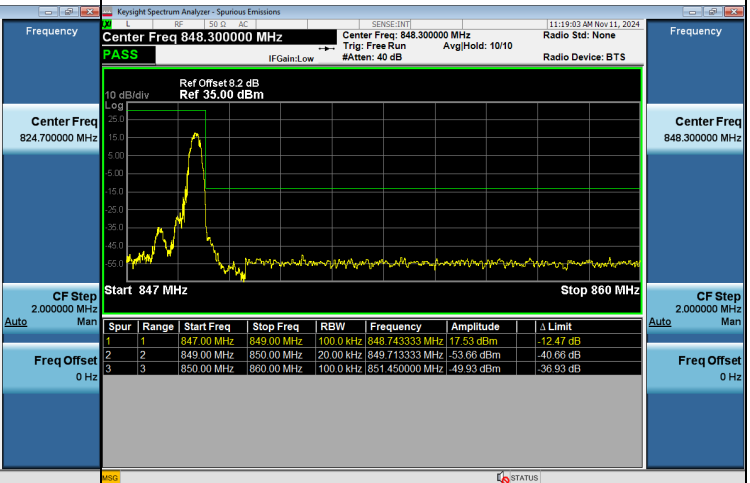
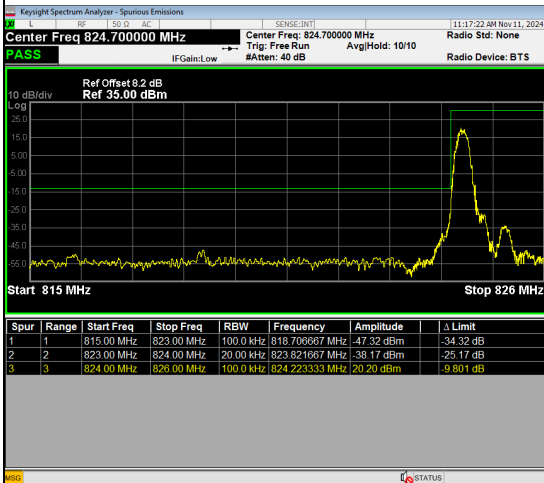
1RB#5

Channel

20407

Channel

20643



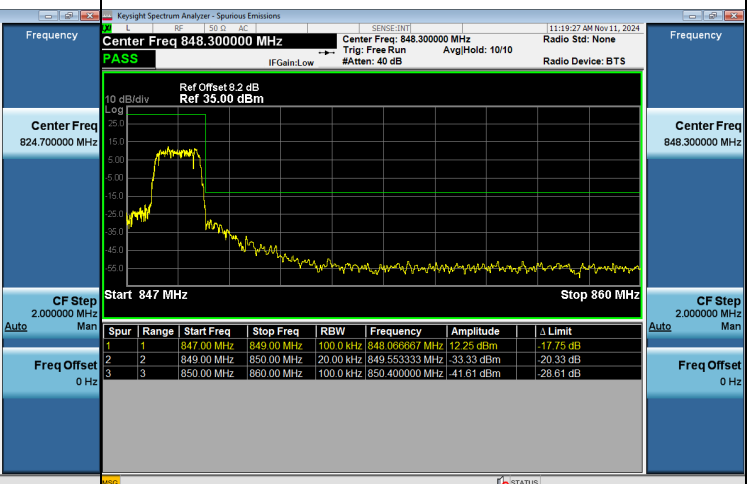
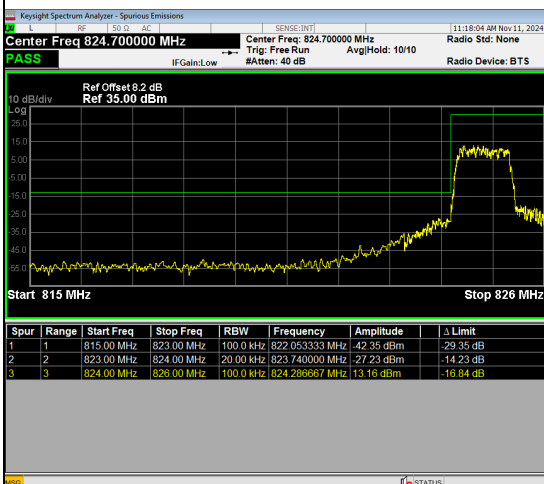
6RB#0

Channel

20407

Channel

20643



LTE Band 5_3MHz Spectrum Plot

1RB#0

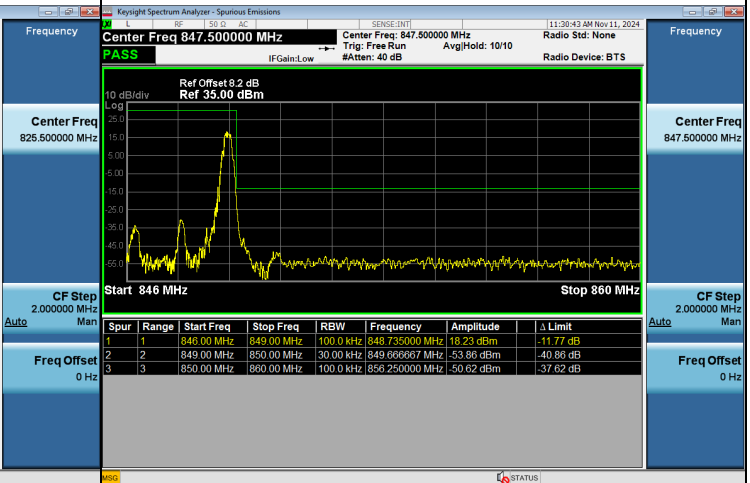
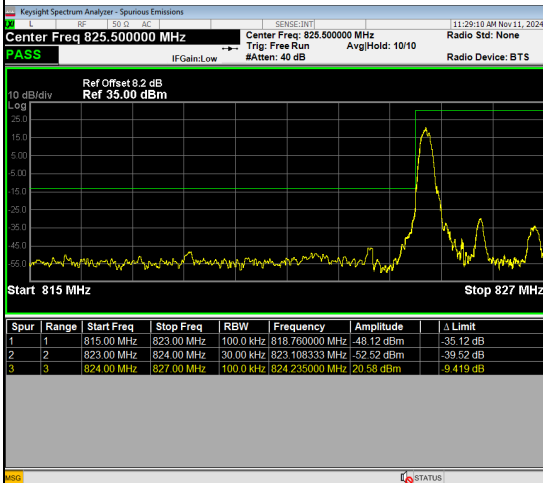
1RB#14

Channel

20415

Channel

20635



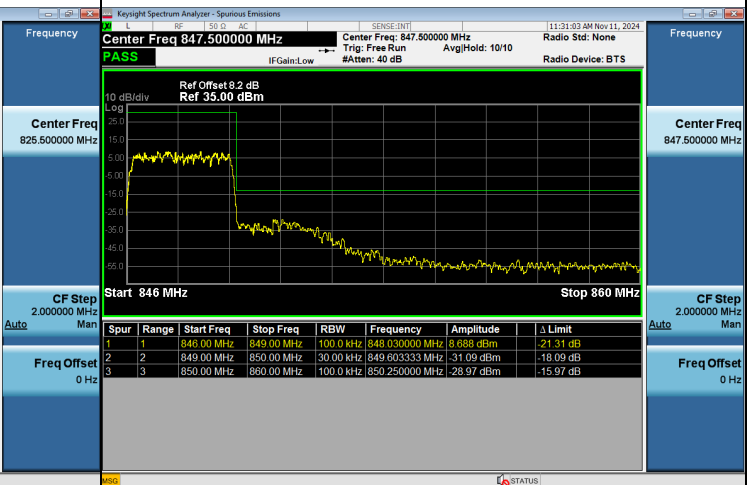
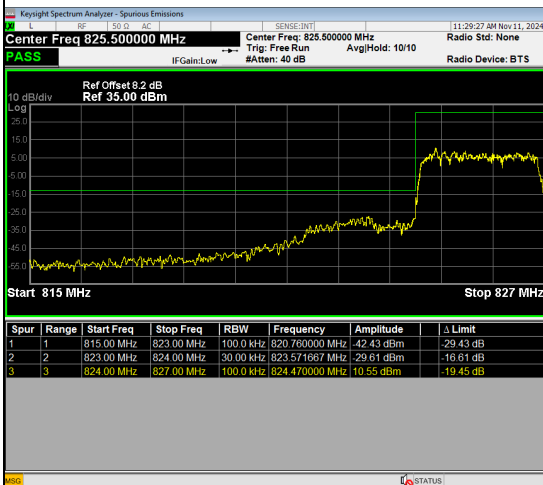
15RB#0

Channel

20415

Channel

20635



LTE Band 5_5MHz Spectrum Plot

1RB#0

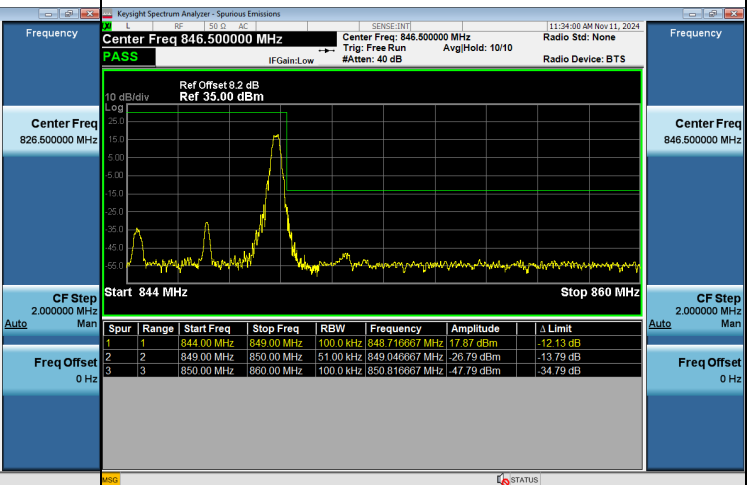
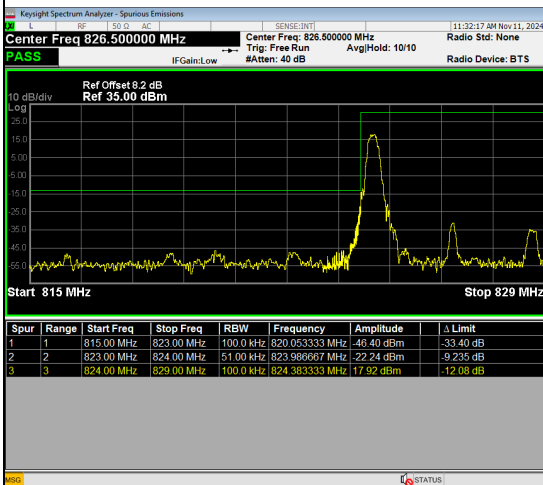
1RB#24

Channel

20425

Channel

20625



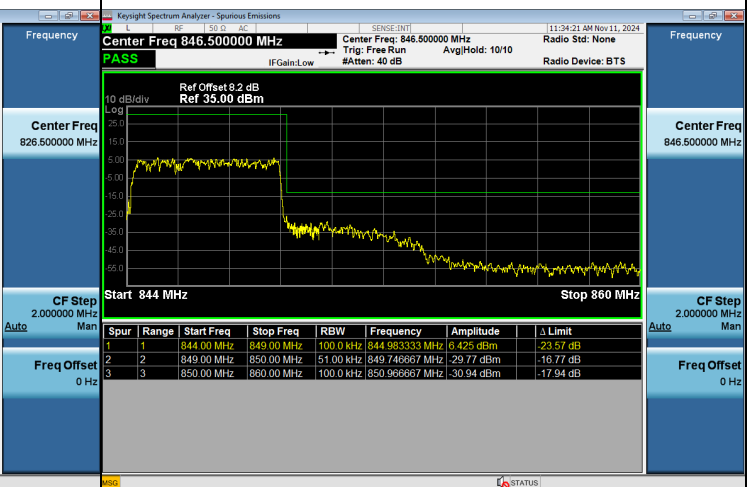
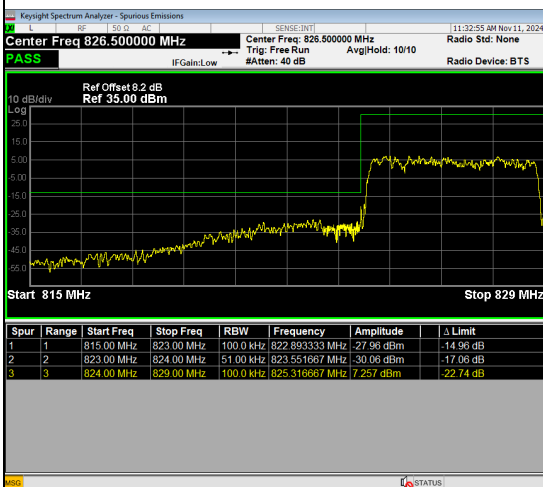
25RB#0

Channel

20425

Channel

20625



LTE Band 5_10MHz Spectrum Plot

1RB#0

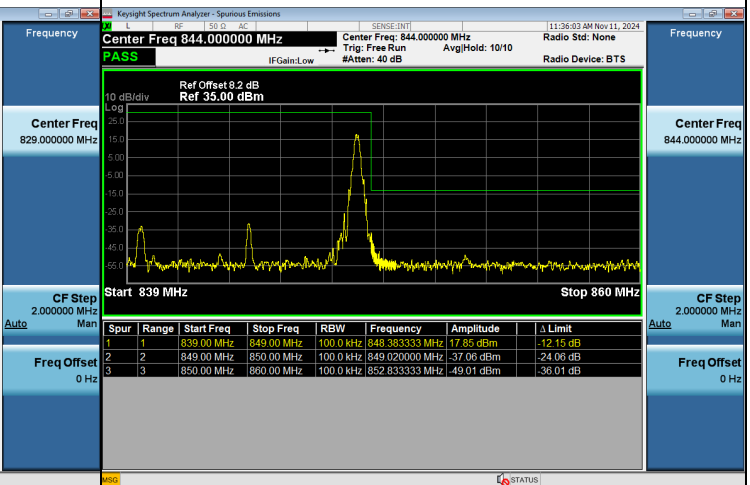
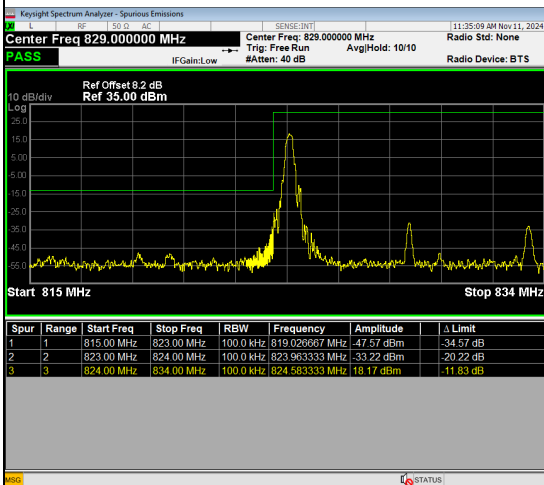
1RB#49

Channel

20450

Channel

20600



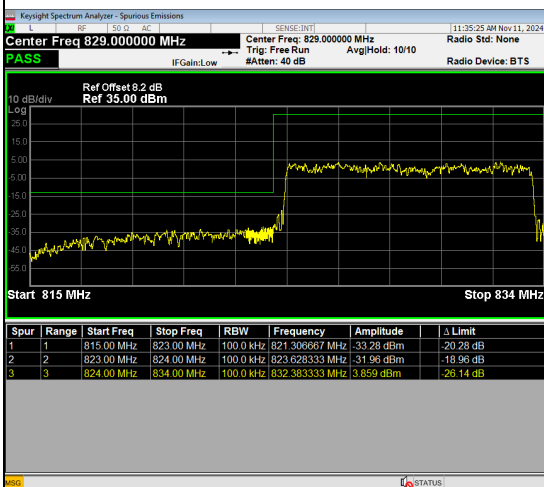
50RB#0

Channel

20450

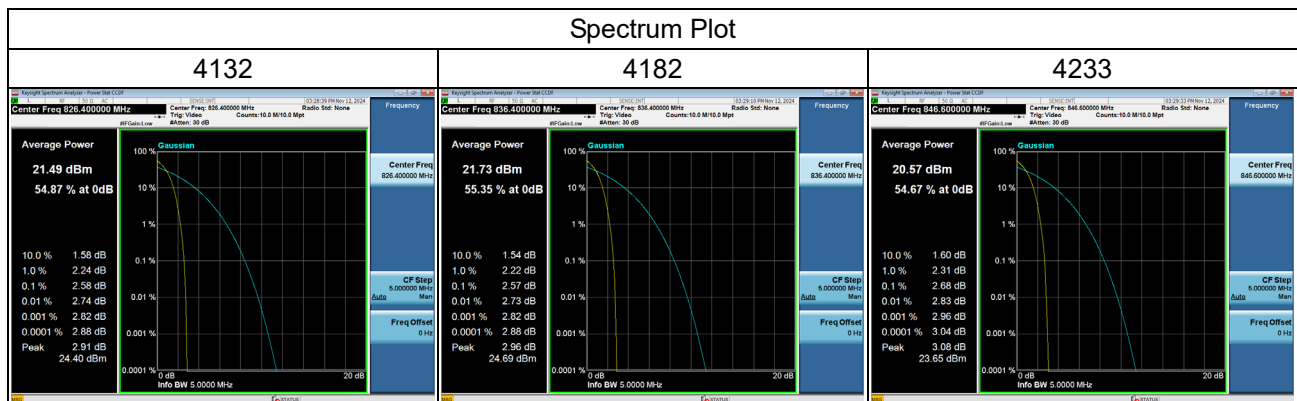
Channel

20600

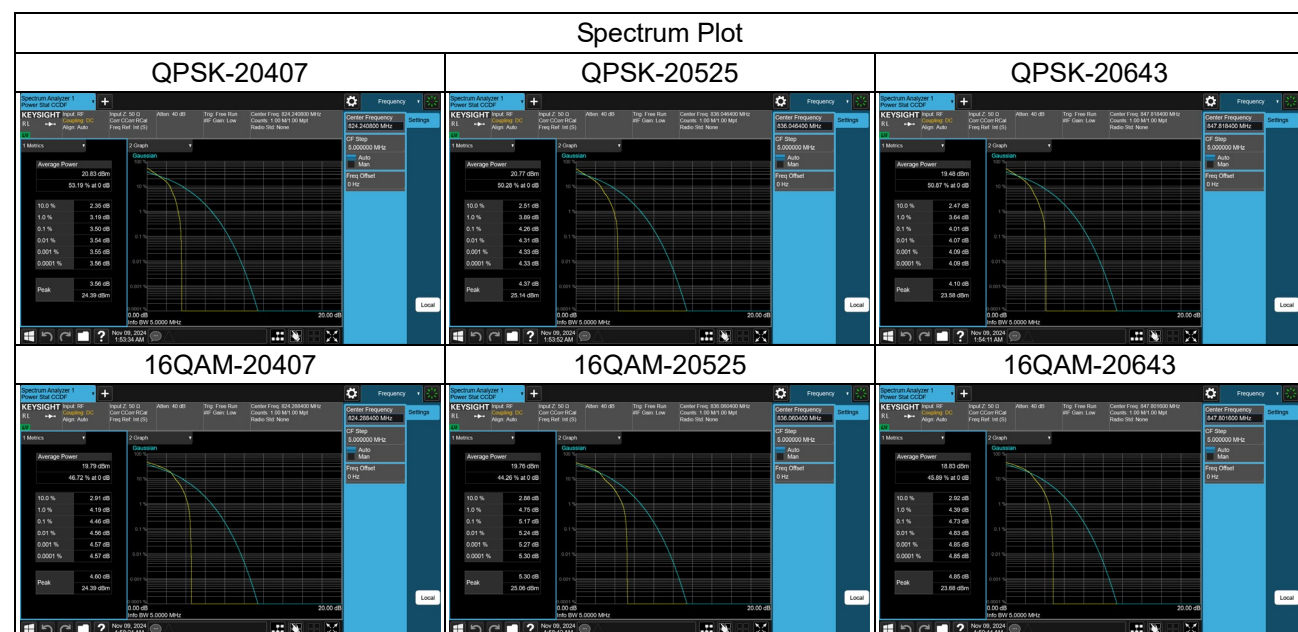


APPENDIX H - PEAK TO AVERAGE RATIO

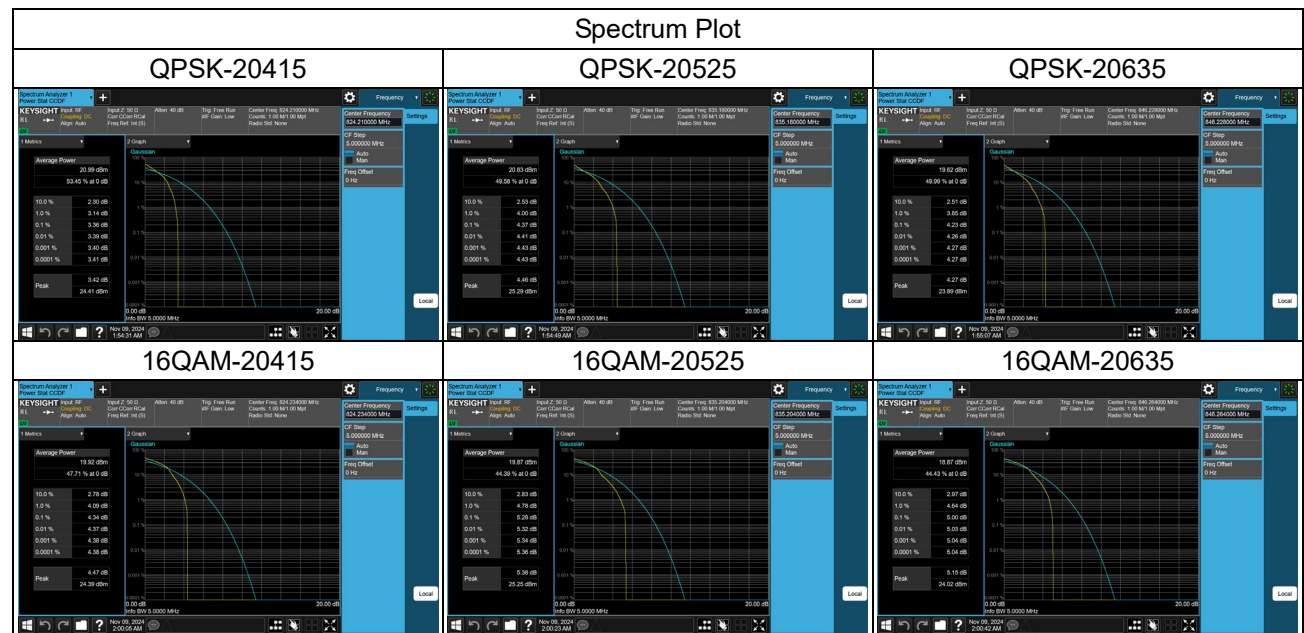
WCDMA Band V_WCDMA				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
4132	826.4	2.58	13	Pass
4182	836.4	2.57	13	Pass
4233	846.6	2.68	13	Pass



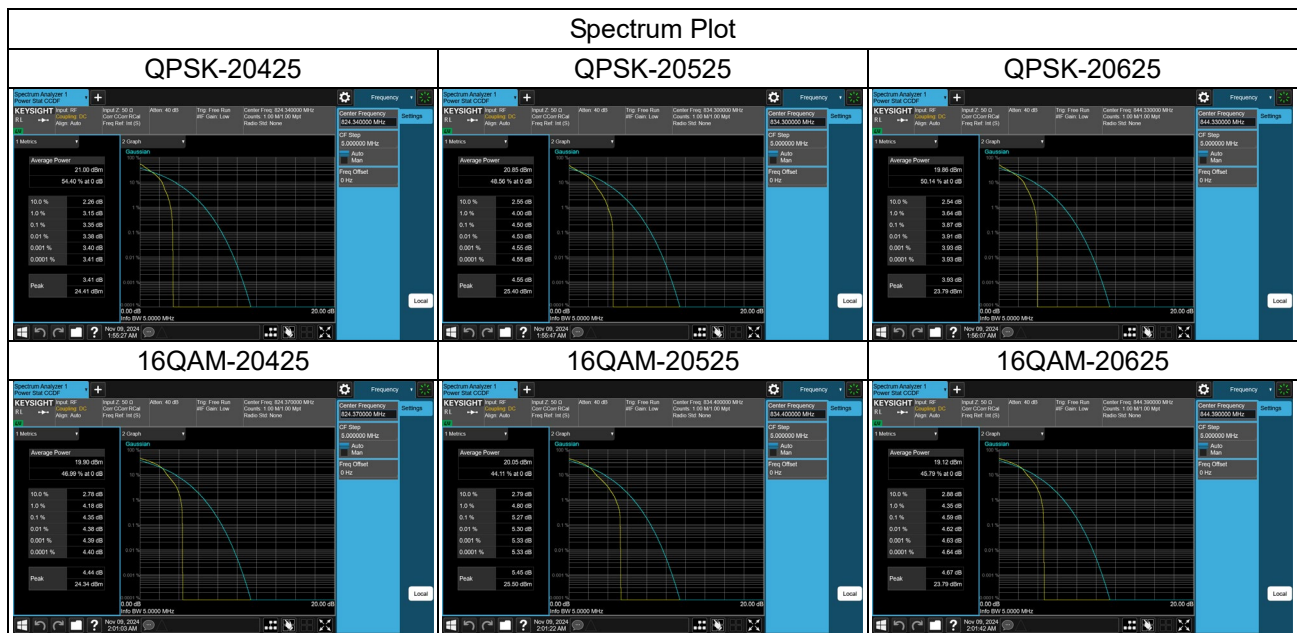
LTE Band 5_1.4MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)		Result
		QPSK	16QAM			
20407	824.7	3.50	4.46	13		Pass
20525	836.5	4.26	5.17	13		Pass
20643	848.3	4.01	4.73	13		Pass



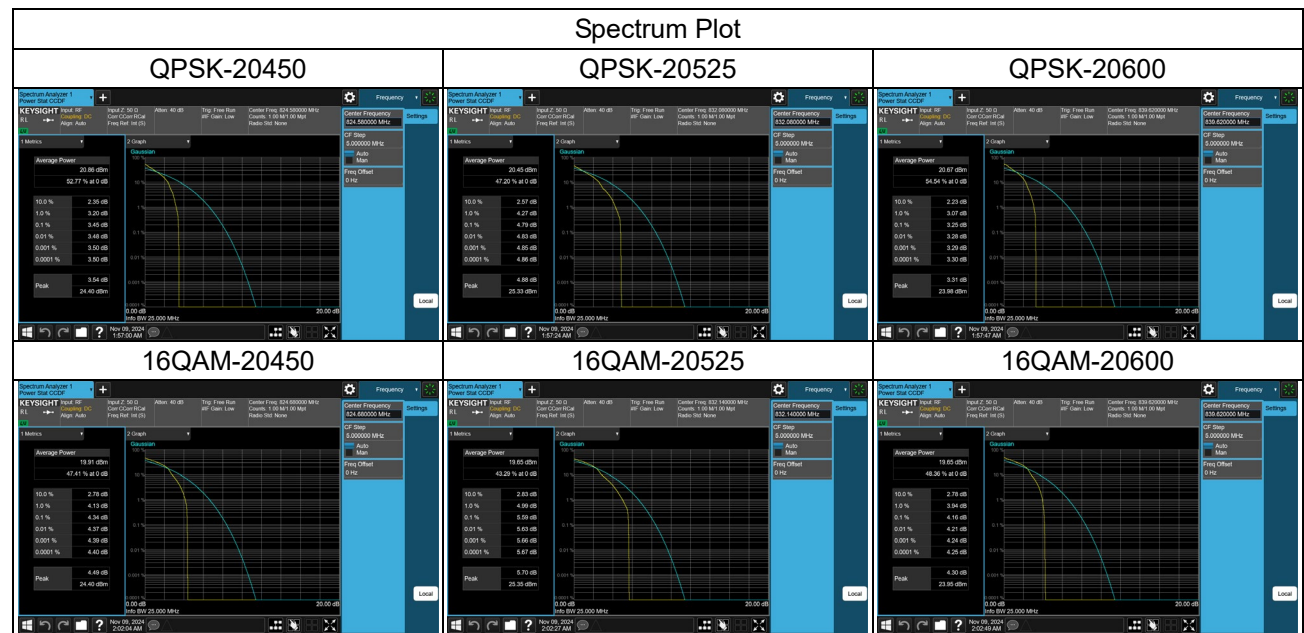
LTE Band 5_3MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)		Result
		QPSK	16QAM			
20415	825.5	3.36	4.34	13		Pass
20525	836.5	4.37	5.28	13		Pass
20635	847.5	4.23	5.00	13		Pass



LTE Band 5_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
20425	826.5	3.35	4.35	13	Pass
20525	836.5	4.50	5.27	13	Pass
20625	846.5	3.87	4.59	13	Pass



LTE Band 5_10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)		Result
		QPSK	16QAM			
20450	829.0	3.45	4.34	13		Pass
20525	836.5	4.79	5.59	13		Pass
20600	844.0	3.25	4.16	13		Pass



APPENDIX I - FREQUENCY STABILITY

Test Mode	WCDMA Band V_CH4182
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Frequency error versus temperature and supply voltage			
Temperature (°C)	Frequency error (Hz)	ppm	Limit
50	5.36	0.0064	±2.5ppm
40	9.35	0.0112	
30	13.54	0.0162	
20	12.63	0.0151	
10	14.25	0.0170	
0	9.32	0.0111	
-10	7.25	0.0087	
-20	12.11	0.0145	
-30	19.23	0.0230	
Minimum voltage	12.32	0.0147	
Maximum voltage	19.32	0.0231	
Nominal voltage	15.32	0.0183	

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

Test Mode	LTE Band 5_CH20525_10MHz
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Frequency error versus temperature and supply voltage			
Temperature (°C)	Frequency error (Hz)	ppm	Limit
50	4.62	0.0055	±2.5ppm
40	-2.86	-0.0034	
30	3.54	0.0042	
20	-5.23	-0.0063	
10	-3.81	-0.0046	
0	-3.45	-0.0041	
-10	5.23	0.0063	
-20	3.48	0.0042	
-30	3.63	0.0043	
Minimum voltage	2.73	0.0033	
Maximum voltage	4.26	0.0051	
Nominal voltage	4.81	0.0058	

Note: Nominal voltage= 24V, Maximum voltage= 27.60V, Minimum voltage= 20.40V.

End of Test Report