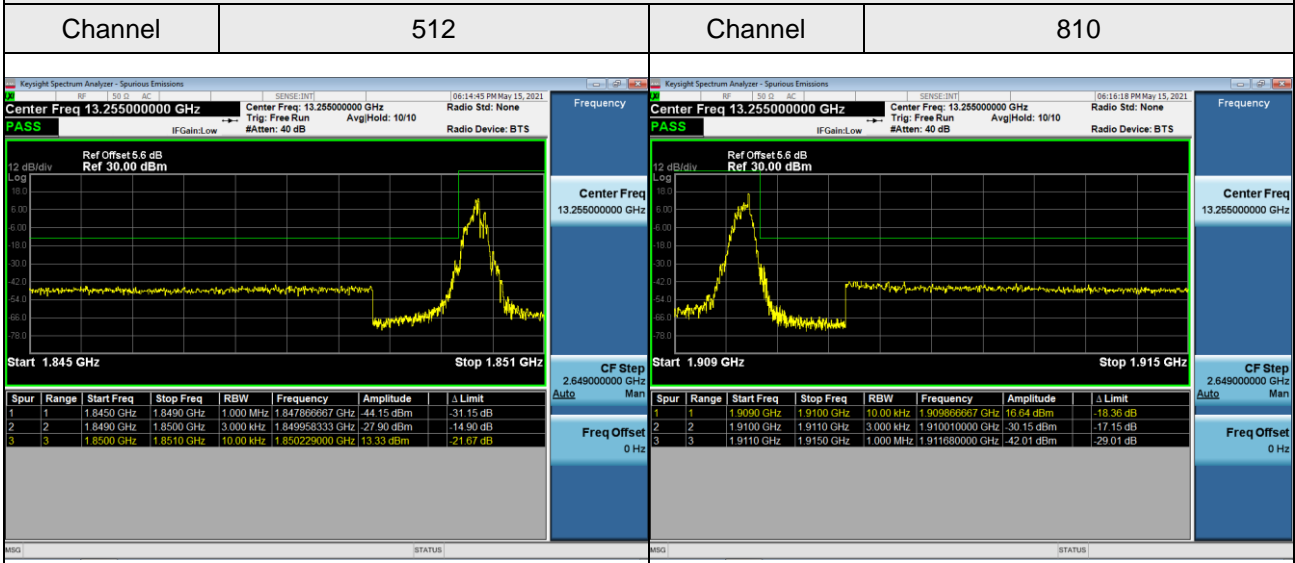
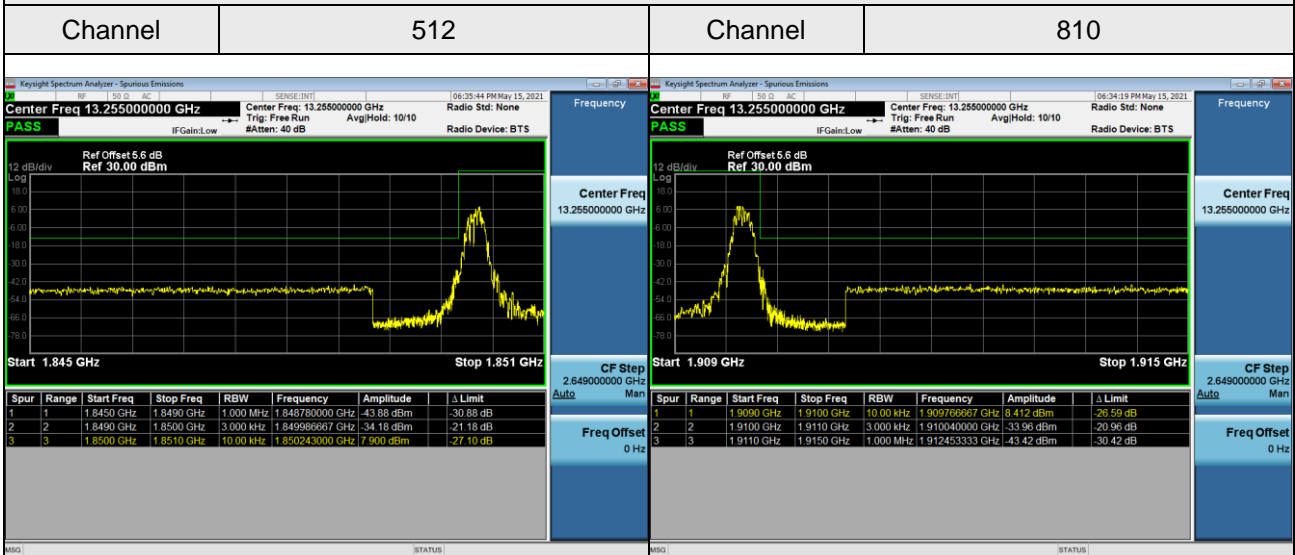


## PCS1900\_GSM Spectrum Plot



## EDGE



### LTE Band 2\_1.4M Spectrum Plot

1RB#0

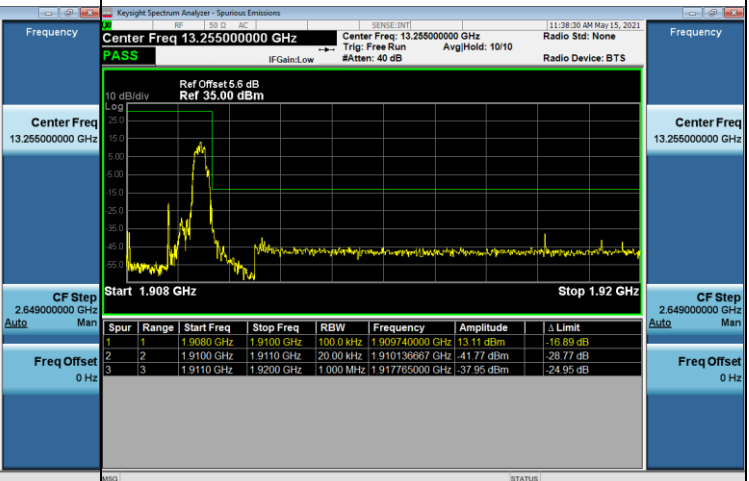
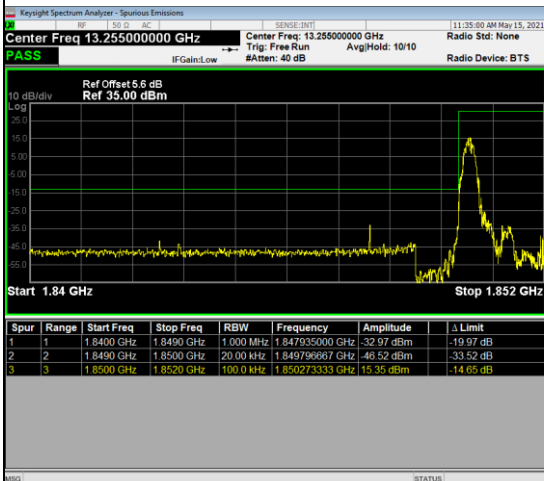
1RB#5

Channel

18607

Channel

19193



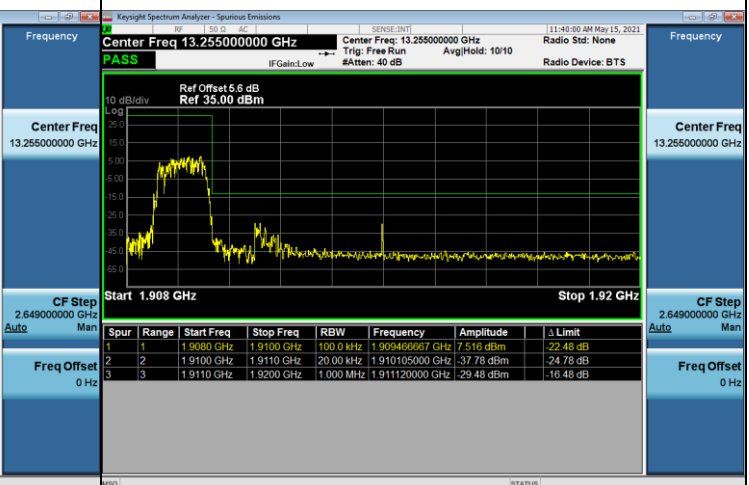
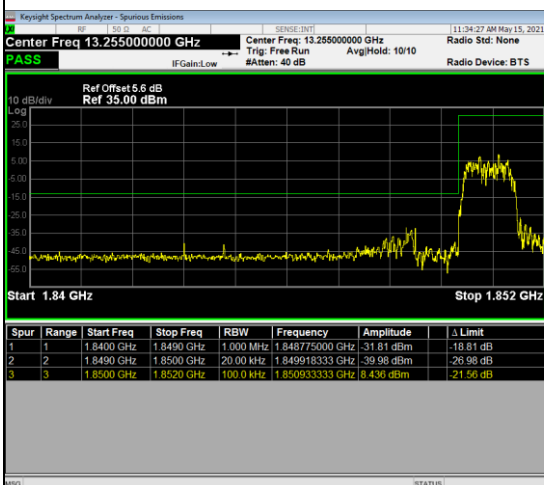
### 6RB#0

Channel

18607

Channel

19193



LTE Band 2\_3M Spectrum Plot

1RB#0

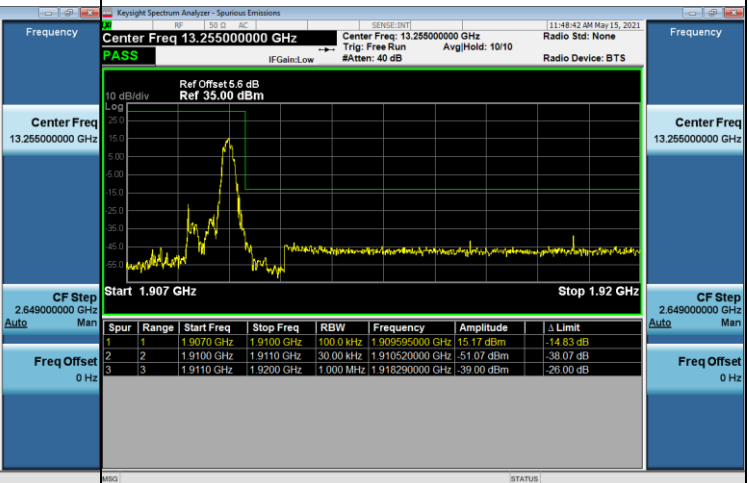
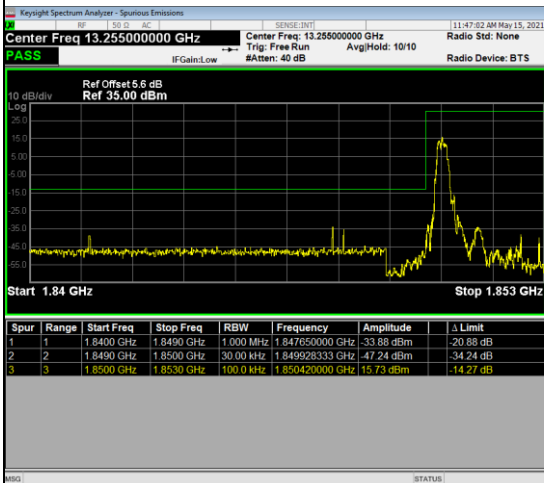
1RB#14

Channel

18615

Channel

19185



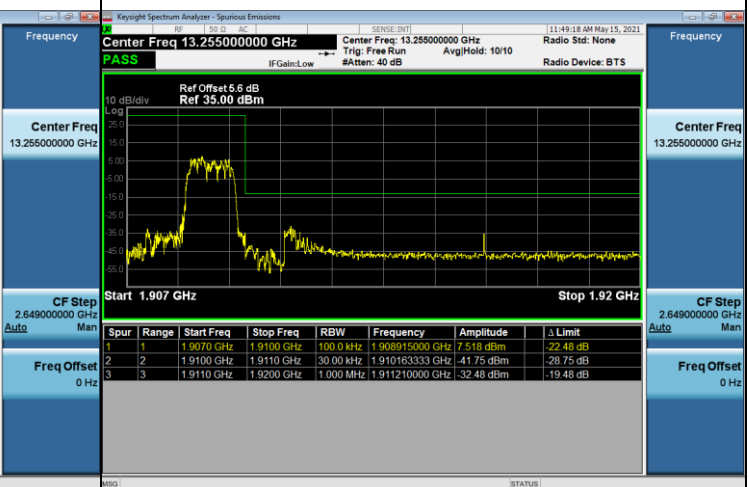
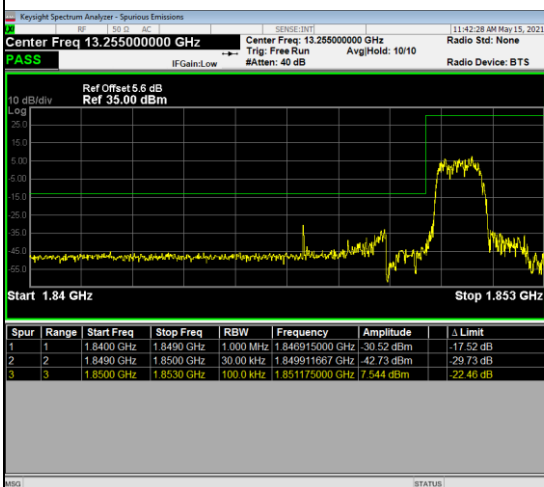
15RB#0

Channel

18615

Channel

19185



## LTE Band 2\_5M Spectrum Plot

1RB#0

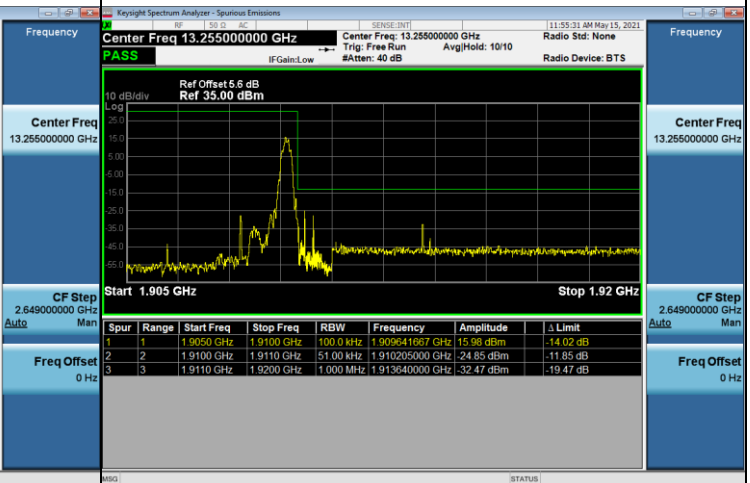
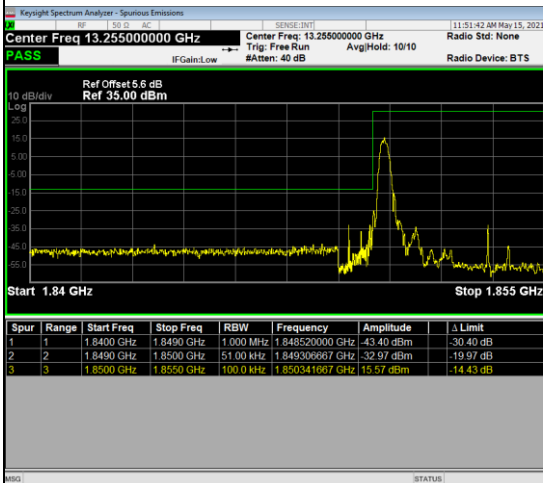
1RB#5

Channel

18625

Channel

19175



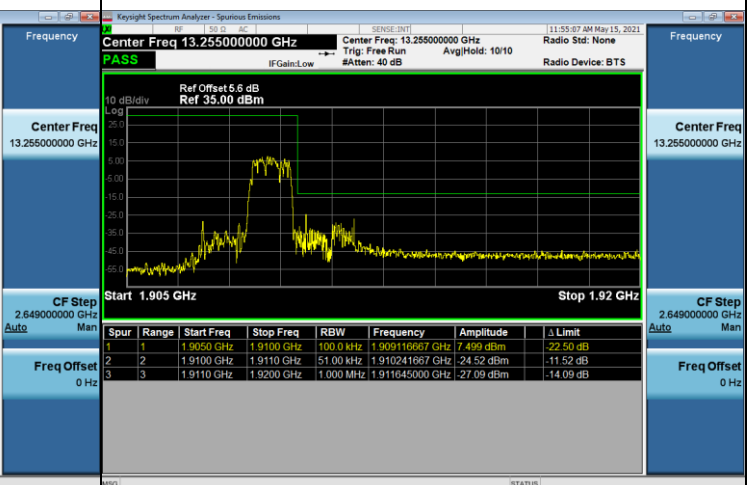
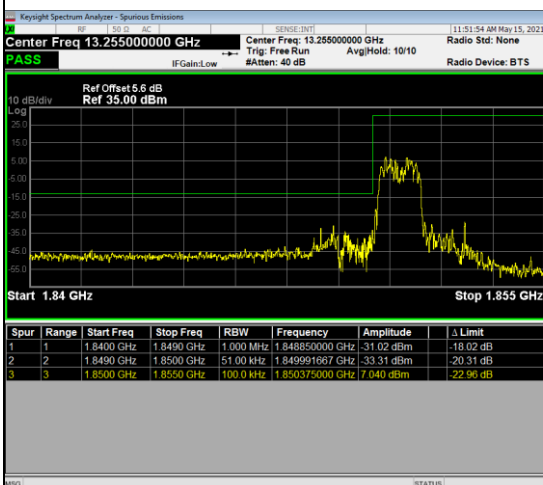
## 6RB#0

Channel

18625

Channel

19175



### LTE Band 2\_10M Spectrum Plot

1RB#0

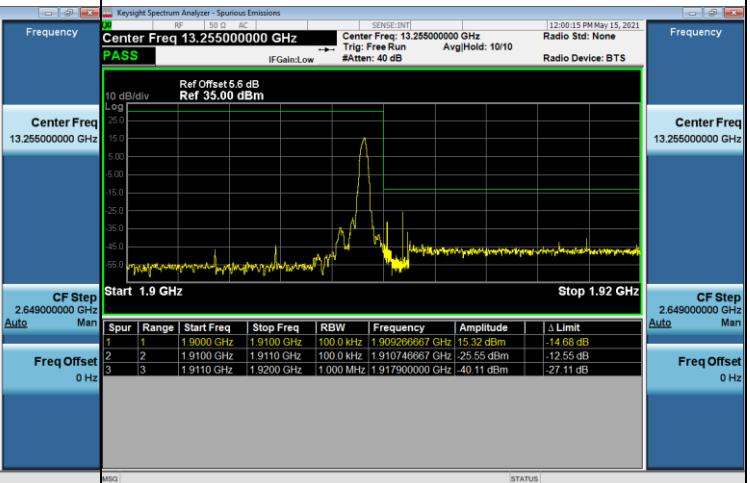
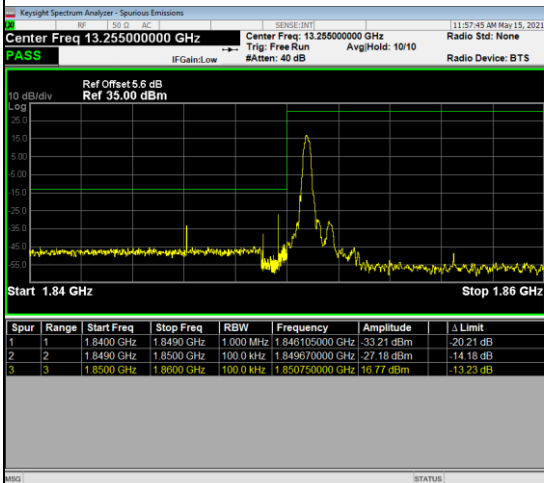
1RB#5

Channel

18650

Channel

19150



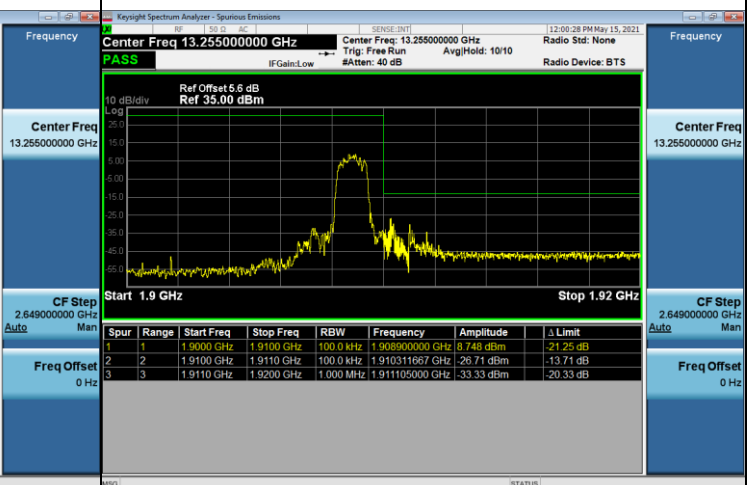
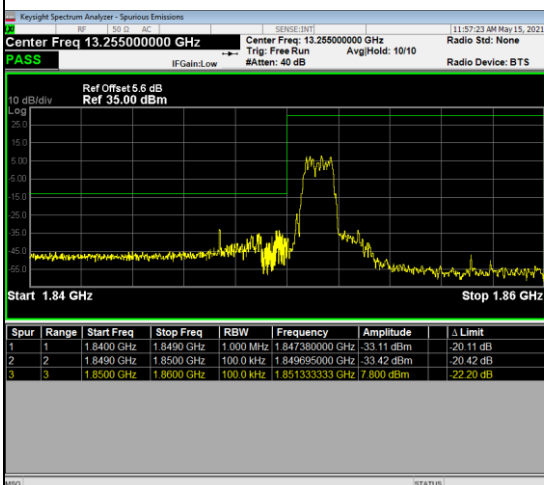
### 6RB#0

Channel

18650

Channel

9150



## LTE Band 2\_15M Spectrum Plot

1RB#0

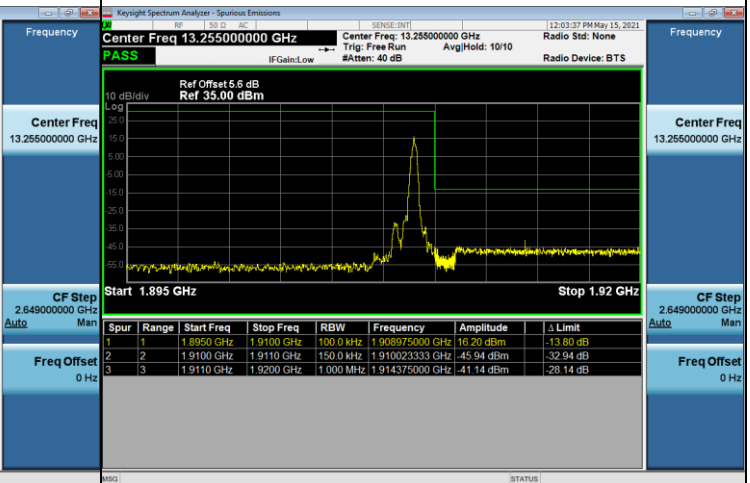
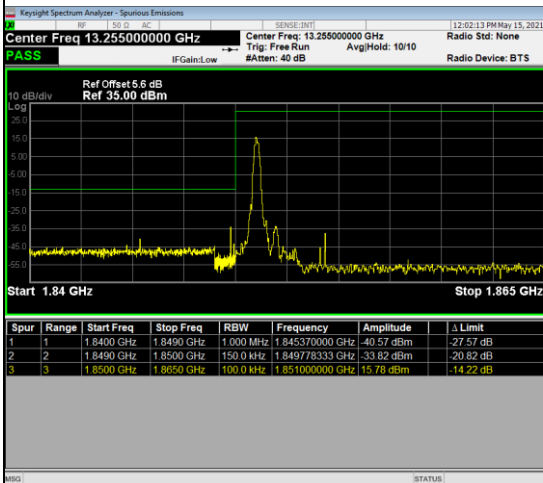
1RB#5

Channel

18675

Channel

19125



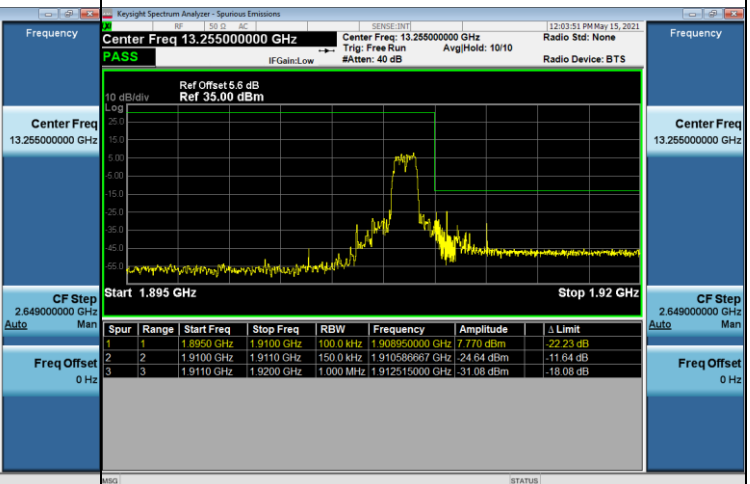
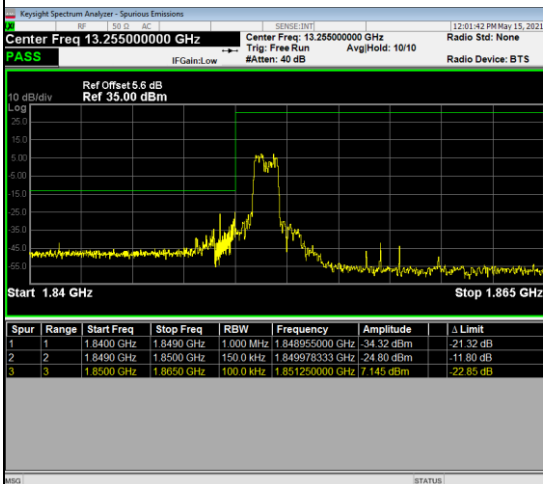
## 6RB#0

Channel

18675

Channel

19125



### LTE Band 2\_20M Spectrum Plot

1RB#0

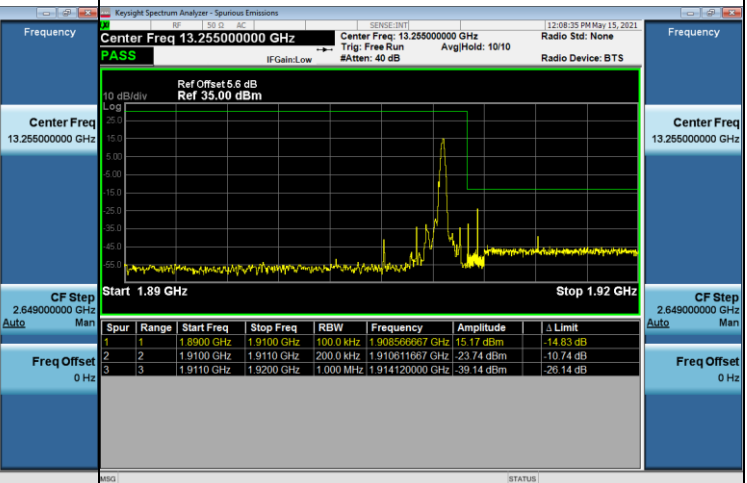
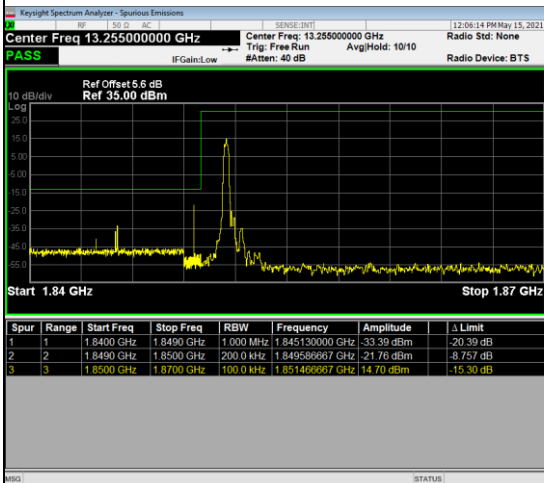
1RB#5

Channel

18700

Channel

19100



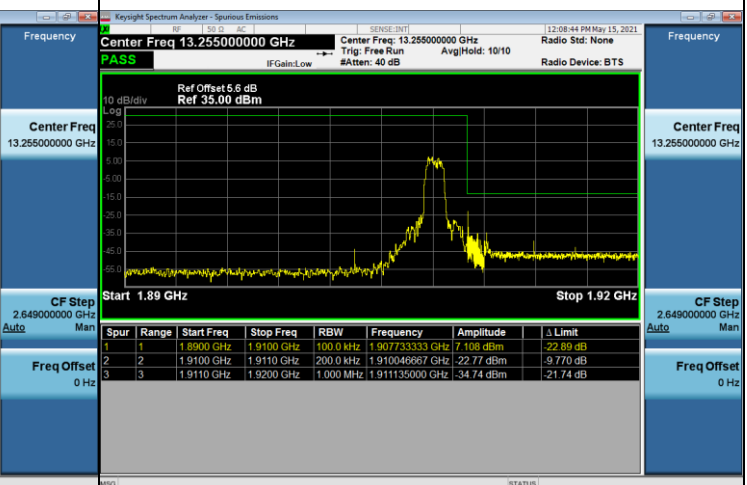
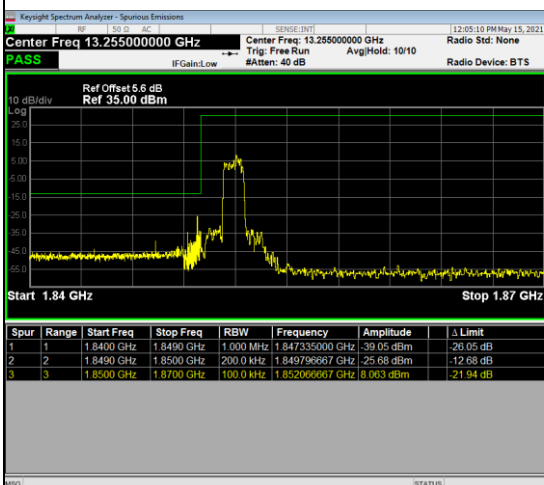
### 6RB#0

Channel

18700

Channel

19100



## APPENDIX H - PEAK TO AVERAGE RATIO



## PCS1900 Spectrum Plot



## LTE Band 2\_1.4M Spectrum Plot



## LTE Band 2\_3M Spectrum Plot



## LTE Band 2\_5M Spectrum Plot



## LTE Band 2\_10M Spectrum Plot



## LTE Band 2\_15M Spectrum Plot





## LTE Band 2\_20M Spectrum Plot



## APPENDIX I - FREQUENCY STABILITY



Test Mode	PCS1900_CH661
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	4.36	0.002319149	±2.5
-10	6.32	0.003361702	
0	6.32	0.003361702	
10	3.32	0.001765957	
20	4.36	0.002319149	
30	2.36	0.001255319	
40	9.26	0.004925532	
50	3.36	0.001787234	
60	4.33	0.002303191	
Max. Deviation (ppm)	9.26	0.004925532	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	4.36	0.002319149	±2.5
3.7	3.88	0.00206383	
3.3	3.23	0.001718085	
Max. Deviation (ppm)	4.36	0.002319149	

Test Mode	LTE Band 2_CH18900_1.4M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	5.43	0.002888298	±2.5
-10	-5.27	-0.002803191	
0	-3.67	-0.001952128	
10	-5.06	-0.002691489	
20	6.18	0.003287234	
30	-1.14	-0.000606383	
40	2.11	0.00112234	
50	-3.16	-0.001680851	
60	1.02	0.000542553	
Max. Deviation (ppm)	6.18	0.003287234	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	6.23	0.00331383	±2.5
3.7	-3.51	-0.001867021	
3.3	-3.66	-0.001946809	
Max. Deviation (ppm)	6.23	0.00331383	

Test Mode	LTE Band 2_CH18900_3M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	5.27	0.002803191	±2.5
-10	-3.98	-0.002117021	
0	4.55	0.002420213	
10	-1.47	-0.000781915	
20	-5.59	-0.002973404	
30	-2.81	-0.001494681	
40	2.90	0.001542553	
50	4.51	0.002398936	
60	3.14	0.001670213	
Max. Deviation (ppm)	-5.59	-0.002973404	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	-6.41	-0.003409574	±2.5
3.7	1.58	0.000840426	
3.3	-4.83	-0.002569149	
Max. Deviation (ppm)	-6.41	-0.003409574	

Test Mode	LTE Band 2_CH18900_5M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	-6.59	-0.003505319	±2.5
-10	-6.03	-0.003207447	
0	-2.47	-0.00131383	
10	5.26	0.002797872	
20	-2.14	-0.001138298	
30	-2.72	-0.001446809	
40	6.77	0.003601064	
50	-4.91	-0.002611702	
60	-6.41	-0.003409574	
Max. Deviation (ppm)	6.77	0.003601064	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	-4.49	-0.002388298	±2.5
3.7	2.27	0.001207447	
3.3	-3.81	-0.002026596	
Max. Deviation (ppm)	-4.49	-0.002388298	

Test Mode	LTE Band 2_CH18900_10M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	-6.45	-0.003430851	±2.5
-10	-3.33	-0.001771277	
0	-4.74	-0.002521277	
10	4.89	0.002601064	
20	-5.16	-0.002744681	
30	-5.06	-0.002691489	
40	-3.85	-0.002047872	
50	-4.92	-0.002617021	
60	-4.42	-0.002351064	
Max. Deviation (ppm)	-6.45	-0.003430851	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	-1.20	-0.000638298	±2.5
3.7	-5.18	-0.002755319	
3.3	-4.27	-0.002271277	
Max. Deviation (ppm)	-5.18	-0.002755319	

Test Mode	LTE Band 2_CH18900_15M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	3.04	0.001617021	±2.5
-10	0.92	0.000489362	
0	3.14	0.001670213	
10	2.48	0.001319149	
20	6.59	0.003505319	
30	-2.69	-0.001430851	
40	6.35	0.00337766	
50	4.08	0.002170213	
60	1.93	0.001026596	
Max. Deviation (ppm)	6.59	0.003505319	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	-3.29	-0.00175	±2.5
3.7	5.45	0.002898936	
3.3	-4.28	-0.002276596	
Max. Deviation (ppm)	5.45	0.002898936	

Test Mode	LTE Band 2_CH18900_20M
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**Temperature vs. Frequency Stability**

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-20	-5.44	-0.002893617	±2.5
-10	-2.66	-0.001414894	
0	-3.37	-0.001792553	
10	-6.55	-0.003484043	
20	4.83	0.002569149	
30	-6.76	-0.003595745	
40	2.08	0.001106383	
50	4.46	0.00237234	
60	2.77	0.001473404	
Max. Deviation (ppm)	-6.76	-0.003595745	

**Voltage vs. Frequency Stability**

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.2	-4.84	-0.002574468	±2.5
3.7	-4.50	-0.002393617	
3.3	-1.36	-0.000723404	
Max. Deviation (ppm)	-4.84	-0.002574468	

End of Test Report