

5.6.Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -40°C to +85°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -40°C to +85°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

Frequency Stability (Voltage Variation)

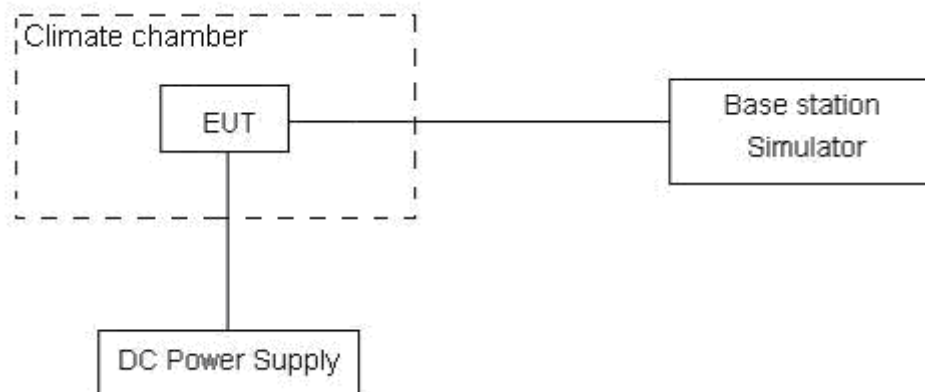
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.3 V and 4.3 V, with a nominal voltage of 3.8V.

Test setup



**Limits**

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01\text{ppm}$.



Test Result

GSM1900						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal (25°C)	Normal	6.26	17.10	0.00333	0.00910	PASS
Extreme (85°C)		12.20	14.60	0.00649	0.00776	PASS
Extreme (80°C)		3.56	13.74	0.00189	0.00731	PASS
Extreme (70°C)		8.18	16.62	0.00435	0.00884	PASS
Extreme (60°C)		7.26	2.80	0.00386	0.00149	PASS
Extreme (50°C)		1.01	7.67	0.00054	0.00408	PASS
Extreme (40°C)		15.82	3.59	0.00842	0.00191	PASS
Extreme (30°C)		4.20	12.93	0.00223	0.00688	PASS
Extreme (20°C)		15.91	14.32	0.00847	0.00762	PASS
Extreme (10°C)		2.28	3.74	0.00121	0.00199	PASS
Extreme (0°C)		5.50	14.99	0.00293	0.00797	PASS
Extreme (-10°C)		8.31	3.27	0.00442	0.00174	PASS
Extreme (-20°C)		13.45	3.50	0.00716	0.00186	PASS
Extreme (-30°C)		17.96	7.85	0.00955	0.00418	PASS
Extreme (-40°C)		1.79	12.46	0.00095	0.00663	PASS
25°C	LV	17.85	17.69	0.00949	0.00941	PASS
	HV	15.32	11.61	0.00815	0.00618	PASS

WCDMA B2						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25°C)	Normal	11.14	10.84	0.00593	0.00577	PASS
Extreme (85°C)		11.87	1.42	0.00631	0.00076	PASS
Extreme (80°C)		16.04	12.00	0.00853	0.00639	PASS
Extreme (70°C)		8.82	13.14	0.00469	0.00699	PASS
Extreme (60°C)		9.56	6.44	0.00508	0.00343	PASS
Extreme (50°C)		15.73	10.39	0.00837	0.00552	PASS
Extreme (40°C)		2.26	1.50	0.00120	0.00080	PASS
Extreme (30°C)		5.28	15.22	0.00281	0.00809	PASS
Extreme (20°C)		13.94	11.47	0.00741	0.00610	PASS
Extreme (10°C)		11.56	12.09	0.00615	0.00643	PASS
Extreme (0°C)		7.45	16.97	0.00396	0.00903	PASS
Extreme (-10°C)		15.47	4.99	0.00823	0.00265	PASS



Extreme (-20°C)		1.01	9.43	0.00054	0.00501	PASS
Extreme (-30°C)		8.70	5.09	0.00463	0.00271	PASS
Extreme (-40°C)		2.47	3.17	0.00131	0.00169	PASS
25°C	LV	9.95	11.94	0.00529	0.00635	PASS
	HV	6.14	11.76	0.00327	0.00626	PASS

LTE Band 2						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	7.49	9.69	0.00399	0.00515	PASS
Extreme (85°C)		5.14	6.78	0.00274	0.00360	PASS
Extreme (80°C)		12.64	5.89	0.00672	0.00313	PASS
Extreme (70°C)		15.83	11.14	0.00842	0.00593	PASS
Extreme (60°C)		13.46	10.59	0.00716	0.00563	PASS
Extreme (50°C)		5.83	14.63	0.00310	0.00778	PASS
Extreme (40°C)		15.96	9.44	0.00849	0.00502	PASS
Extreme (30°C)		4.46	4.81	0.00237	0.00256	PASS
Extreme (20°C)		1.81	9.55	0.00096	0.00508	PASS
Extreme (10°C)		3.17	8.02	0.00168	0.00427	PASS
Extreme (0°C)		4.22	14.67	0.00224	0.00780	PASS
Extreme (-10°C)		6.16	10.08	0.00328	0.00536	PASS
Extreme (-20°C)		13.91	2.71	0.00740	0.00144	PASS
Extreme (-30°C)		9.27	10.05	0.00493	0.00534	PASS
Extreme (-40°C)		17.15	9.81	0.00912	0.00522	PASS
25°C	LV	7.75	13.07	0.00412	0.00695	PASS
	HV	16.61	6.78	0.00884	0.00360	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	6.64	17.02	0.00353	0.00905	PASS
Extreme (85°C)		12.72	16.43	0.00677	0.00874	PASS
Extreme (80°C)		9.62	10.55	0.00512	0.00561	PASS
Extreme (70°C)		5.29	4.76	0.00282	0.00253	PASS
Extreme (60°C)		7.44	9.22	0.00396	0.00491	PASS
Extreme (50°C)		12.27	15.87	0.00653	0.00844	PASS
Extreme (40°C)		14.71	7.54	0.00783	0.00401	PASS
Extreme (30°C)		3.74	2.24	0.00199	0.00119	PASS



Extreme (20°C)		2.86	2.79	0.00152	0.00148	PASS
Extreme (10°C)		4.74	16.86	0.00252	0.00897	PASS
Extreme (0°C)		9.06	14.58	0.00482	0.00775	PASS
Extreme (-10°C)		2.30	13.44	0.00122	0.00715	PASS
Extreme (-20°C)		10.41	8.41	0.00553	0.00447	PASS
Extreme (-30°C)		7.40	13.07	0.00394	0.00695	PASS
Extreme (-40°C)		7.17	9.09	0.00381	0.00484	PASS
25°C	LV	3.59	13.24	0.00191	0.00704	PASS
	HV	10.74	5.16	0.00571	0.00274	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	2.20	4.50	0.00117	0.00239	
Extreme (85°C)		12.45	15.68	0.00662	0.00834	PASS
Extreme (80°C)		2.01	5.03	0.00107	0.00267	PASS
Extreme (70°C)		3.20	5.05	0.00170	0.00268	PASS
Extreme (60°C)		1.11	6.23	0.00059	0.00331	PASS
Extreme (50°C)		9.56	10.24	0.00508	0.00545	PASS
Extreme (40°C)		11.39	6.66	0.00606	0.00354	PASS
Extreme (30°C)		12.53	13.08	0.00666	0.00696	PASS
Extreme (20°C)		14.34	7.44	0.00763	0.00396	PASS
Extreme (10°C)		16.11	4.45	0.00857	0.00237	PASS
Extreme (0°C)		17.39	11.00	0.00925	0.00585	PASS
Extreme (-10°C)		17.90	16.31	0.00952	0.00868	PASS
Extreme (-20°C)		12.16	1.24	0.00647	0.00066	PASS
Extreme (-30°C)		11.45	16.73	0.00609	0.00890	PASS
Extreme (-40°C)	8.31	10.46	0.00442	0.00557	PASS	
25°C	LV	14.94	1.03	0.00795	0.00055	PASS
	HV	4.46	14.85	0.00237	0.00790	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	12.79	3.04	0.00680	0.00162	
Extreme (85°C)		15.04	1.15	0.00800	0.00061	PASS
Extreme (80°C)		17.20	1.78	0.00915	0.00095	PASS
Extreme (70°C)		15.10	4.54	0.00803	0.00241	PASS
Extreme (60°C)		4.79	6.03	0.00255	0.00321	PASS
Extreme (50°C)		7.20	14.17	0.00383	0.00754	PASS
Extreme (40°C)		8.26	11.12	0.00440	0.00592	PASS



Extreme (30°C)		12.91	6.81	0.00687	0.00362	PASS
Extreme (20°C)		12.21	15.82	0.00649	0.00842	PASS
Extreme (10°C)		17.59	6.35	0.00935	0.00338	PASS
Extreme (0°C)		8.87	8.11	0.00472	0.00432	PASS
Extreme (-10°C)		15.82	10.78	0.00841	0.00573	PASS
Extreme (-20°C)		12.16	16.66	0.00647	0.00886	PASS
Extreme (-30°C)		5.04	1.11	0.00268	0.00059	PASS
Extreme (-40°C)		9.51	9.73	0.00506	0.00517	PASS
25°C	LV	9.09	2.66	0.00484	0.00142	PASS
	HV	2.06	10.20	0.00110	0.00543	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	10.53	15.87	0.00560	0.00844	PASS
Extreme (85°C)		11.96	2.44	0.00636	0.00130	PASS
Extreme (80°C)		3.88	5.68	0.00207	0.00302	PASS
Extreme (70°C)		6.24	8.91	0.00332	0.00474	PASS
Extreme (60°C)		8.97	11.82	0.00477	0.00629	PASS
Extreme (50°C)		3.56	1.43	0.00190	0.00076	PASS
Extreme (40°C)		7.59	9.89	0.00404	0.00526	PASS
Extreme (30°C)		15.26	14.79	0.00812	0.00786	PASS
Extreme (20°C)		16.63	17.81	0.00885	0.00947	PASS
Extreme (10°C)		13.69	17.66	0.00728	0.00940	PASS
Extreme (0°C)		6.69	10.19	0.00356	0.00542	PASS
Extreme (-10°C)		6.92	13.92	0.00368	0.00740	PASS
Extreme (-20°C)		7.59	13.77	0.00404	0.00733	PASS
Extreme (-30°C)		14.32	16.67	0.00762	0.00887	PASS
Extreme (-40°C)	1.79	11.28	0.00095	0.00600	PASS	
25°C	LV	12.22	2.74	0.00650	0.00146	PASS
	HV	5.11	6.87	0.00272	0.00365	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	3.02	1.74	0.00161	0.00093	PASS
Extreme (85°C)		3.71	10.92	0.00197	0.00581	PASS
Extreme (80°C)		5.79	4.54	0.00308	0.00242	PASS
Extreme (70°C)		9.64	11.94	0.00513	0.00635	PASS
Extreme (60°C)		9.06	15.22	0.00482	0.00809	PASS
Extreme (50°C)		8.83	11.86	0.00470	0.00631	PASS



Extreme (40°C)		6.65	3.17	0.00354	0.00169	PASS
Extreme (30°C)		14.48	5.88	0.00770	0.00313	PASS
Extreme (20°C)		13.30	10.27	0.00707	0.00546	PASS
Extreme (10°C)		11.93	14.22	0.00635	0.00756	PASS
Extreme (0°C)		4.49	11.97	0.00239	0.00636	PASS
Extreme (-10°C)		11.18	15.48	0.00595	0.00824	PASS
Extreme (-20°C)		9.52	8.76	0.00507	0.00466	PASS
Extreme (-30°C)		9.15	2.14	0.00487	0.00114	PASS
Extreme (-40°C)		11.97	14.58	0.00637	0.00775	PASS
25°C	LV	3.82	11.88	0.00203	0.00632	PASS
	HV	6.86	8.68	0.00365	0.00462	PASS

5.7. Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

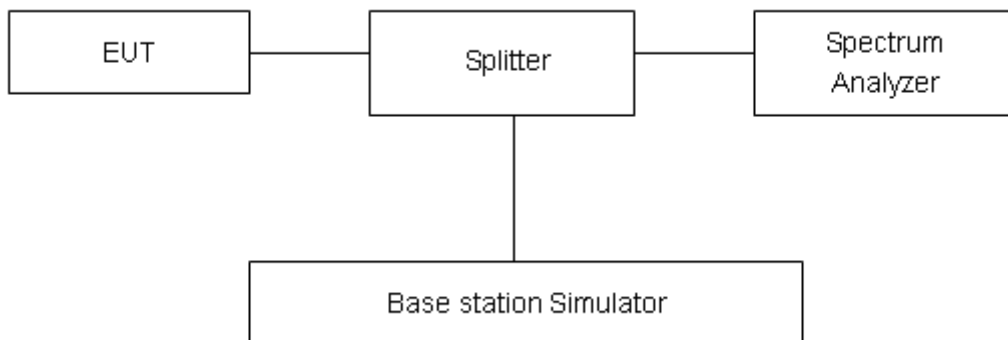
The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 100kHz, VBW is set to 300kHz for 30MHz~1GHz

RBW is set to 1MHz, VBW is set to 3MHz for above 1GHz, Sweep is set to ATUO.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup



Limits

Rule Part 24.238(a) specifies that “on any frequency outside a licensee’s frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log₁₀ (P) dB.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-20GHz	1.407 dB

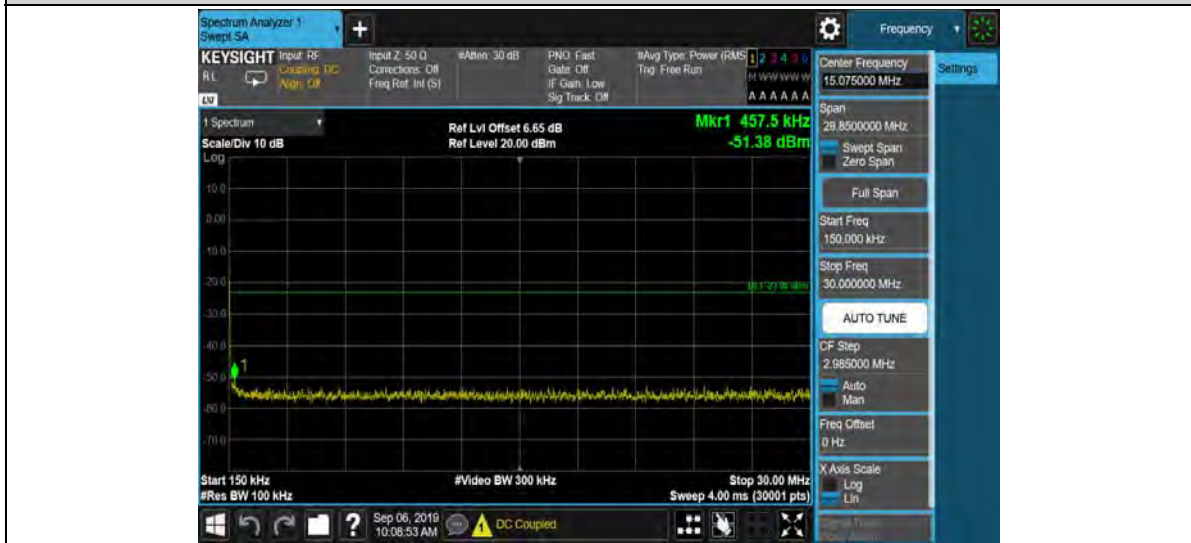
Test Result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.



GPRS1900-512-0.009~0.15



GPRS1900-512-0.15~30



GPRS1900-512-30~1000



GPRS1900-512-1000~5000



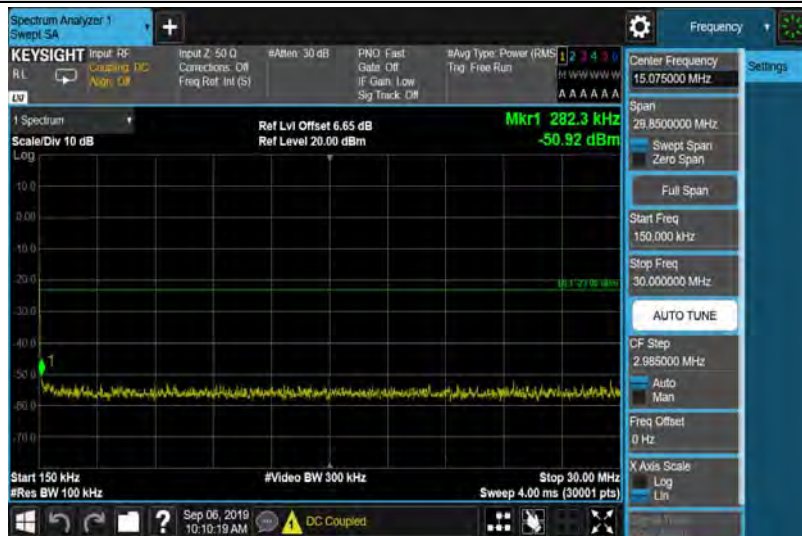
GPRS1900-512-5000~12000



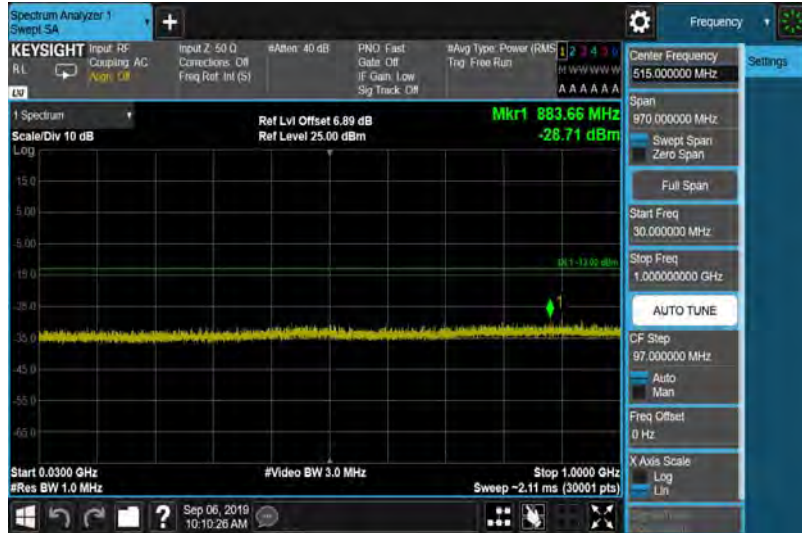
GPRS1900-512-12000~26500



GPRS1900-661-0.009~0.15



GPRS1900-661-0.15~30



GPRS1900-661-30~1000



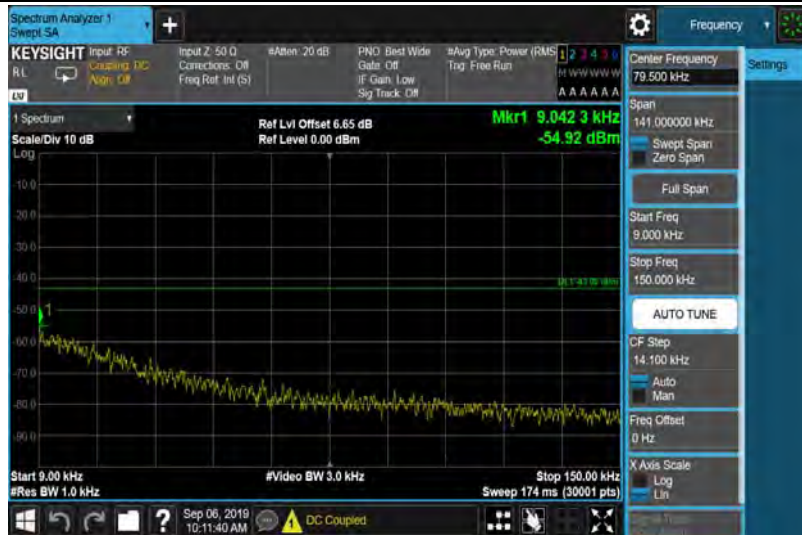
GPRS1900-661-1000~5000



GPRS1900-661-5000~12000



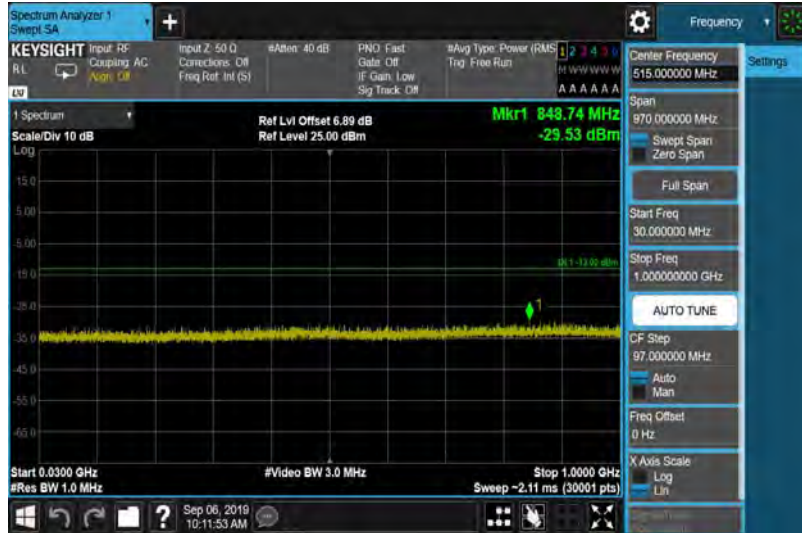
GPRS1900-661-12000~26500



GPRS1900-810-0.009~0.15



GPRS1900-810-0.15~30



GPRS1900-810-30~1000



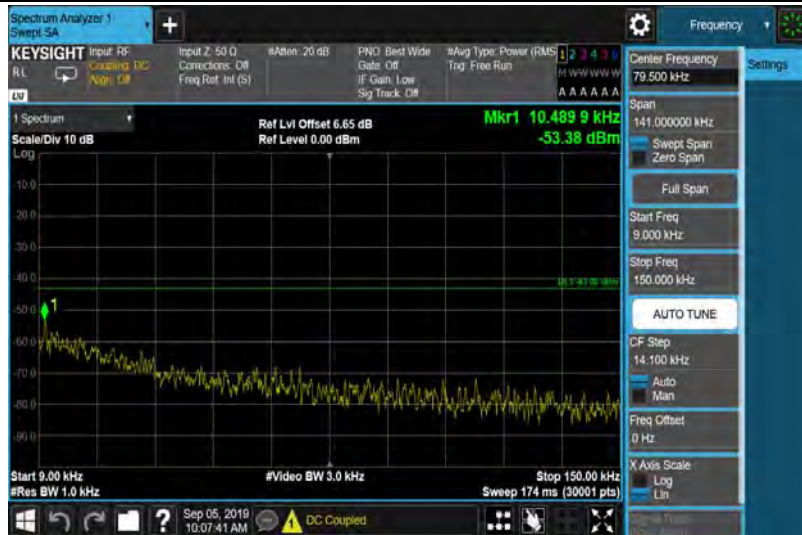
GPRS1900-810-1000~5000



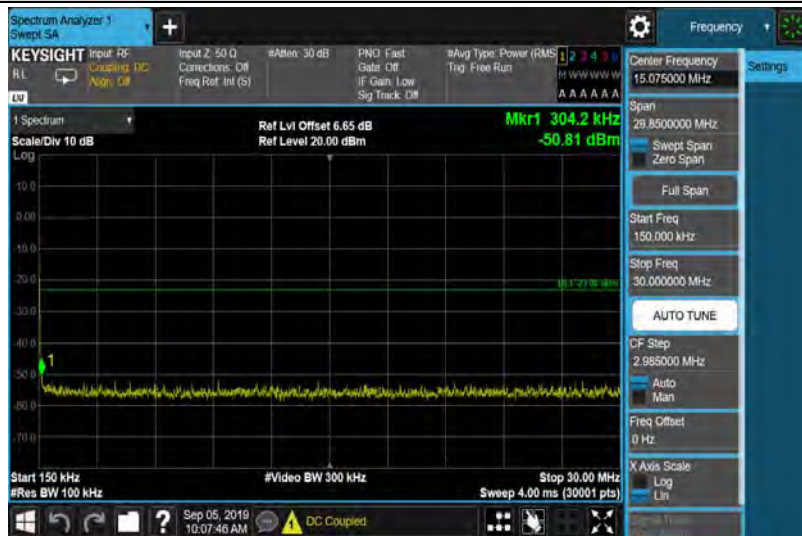
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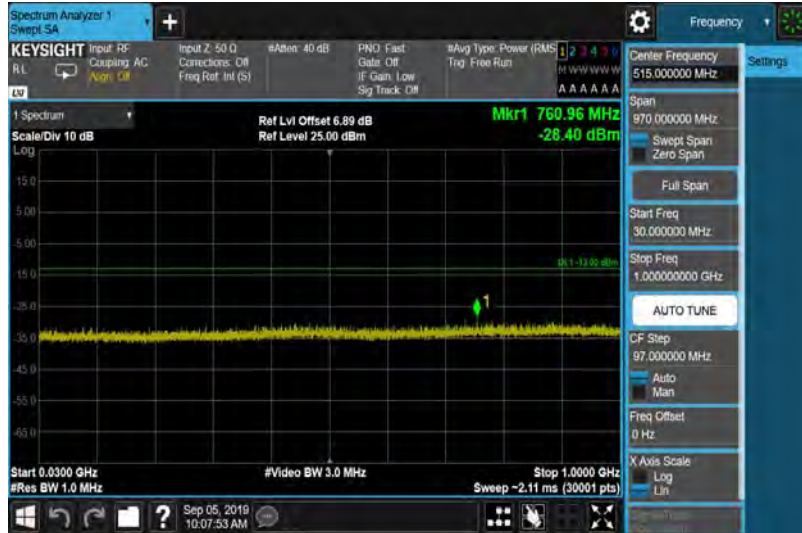
GPRS1900-810-12000~26500



EGPRS1900-512-0.009~0.15



EGPRS1900-512-0.15~30



EGPRS1900-512-30~1000



EGPRS1900-512-1000~5000



EGPRS1900-512-5000~12000



EGPRS1900-512-12000~26500



EGPRS1900-661-0.009~0.15



EGPRS1900-661-0.15~30



EGPRS1900-661-30~1000



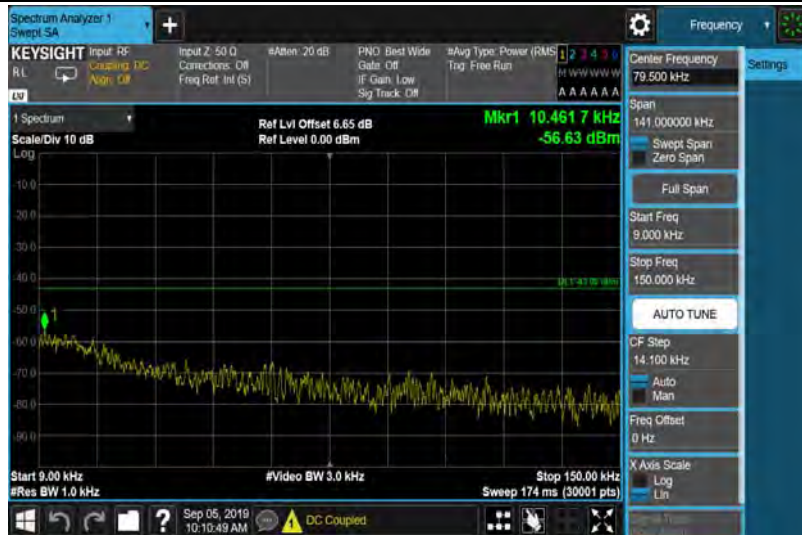
EGPRS1900-661-1000~5000



EGPRS1900-661-5000~12000



EGPRS1900-661-12000~26500



EGPRS1900-810-0.009~0.15



EGPRS1900-810-0.15~30



EGPRS1900-810-30~1000



EGPRS1900-810-1000~5000



EGPRS1900-810-5000~12000



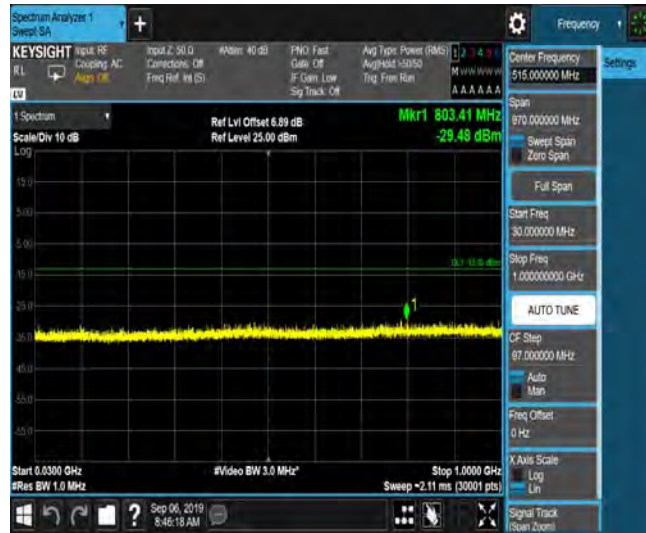
EGPRS1900-810-12000~26500



WCDMA Band II _9262



WCDMA Band II _9262



WCDMA Band II _9262



WCDMA Band II _9262



WCDMA Band II _9262



WCDMA Band II_9262



WCDMA Band II_9400



WCDMA Band II_9400



WCDMA Band II _9400



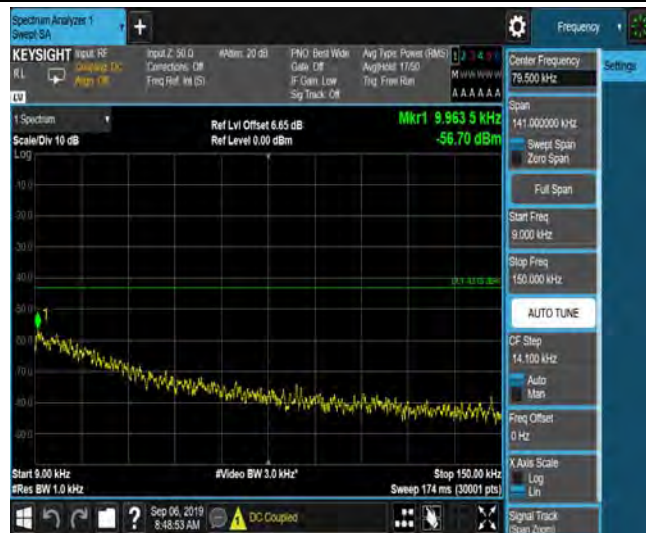
WCDMA Band II _9400



WCDMA Band II _9400



WCDMA Band II_9400



WCDMA Band II_9538



WCDMA Band II_9538



WCDMA Band II _9538



WCDMA Band II _9538



WCDMA Band II _9538

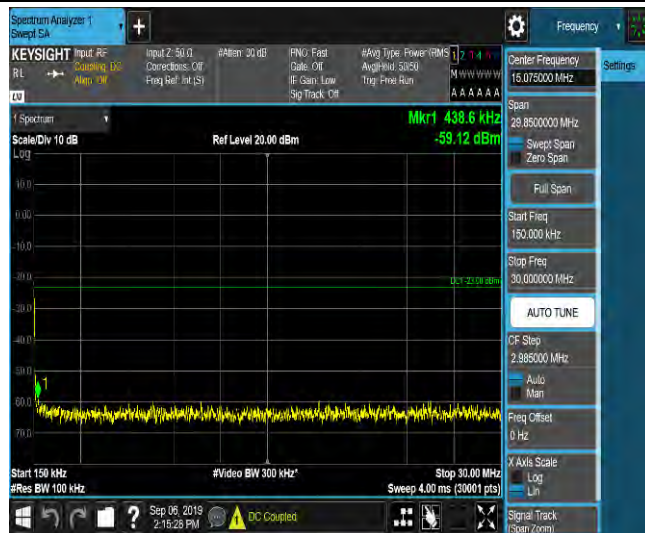


WCDMA Band II _9538

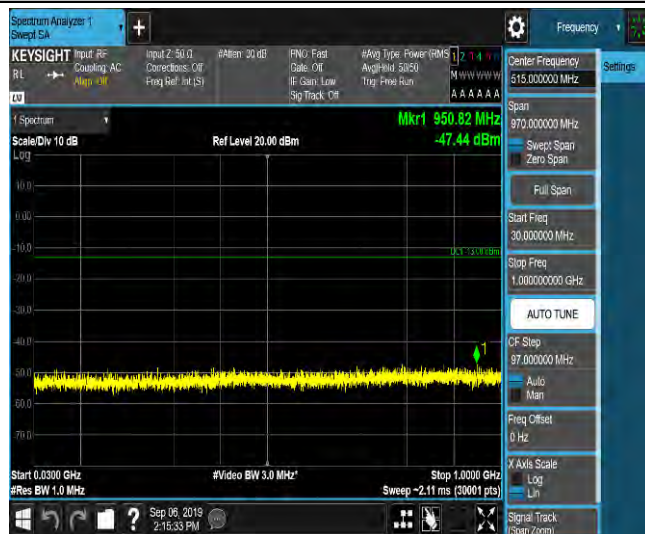
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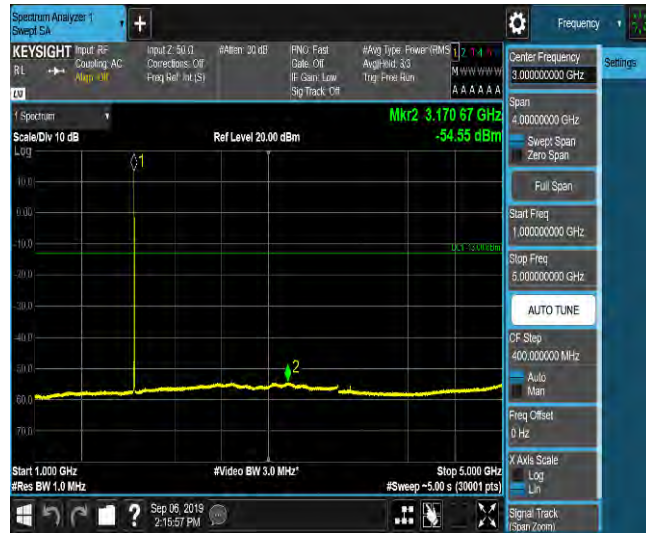
LTE Band 2_1.4MHz_QPSK_18607_1RB#0_Range2:0.15~30MHz_-59.12_PASS



LTE Band 2_1.4MHz_QPSK_18607_1RB#0_Range3:30~1000MHz_-47.44_PASS



LTE Band 2_1.4MHz_QPSK_18607_1RB#0_Range4:1000~5000MHz_-54.55_PASS



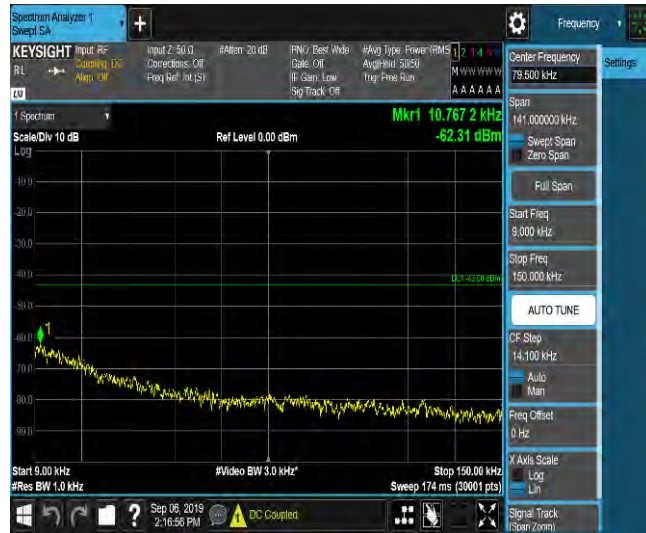
LTE Band 2_1.4MHz_QPSK_18607_1RB#0_Range5:5000~12000MHz_-65.52_PASS



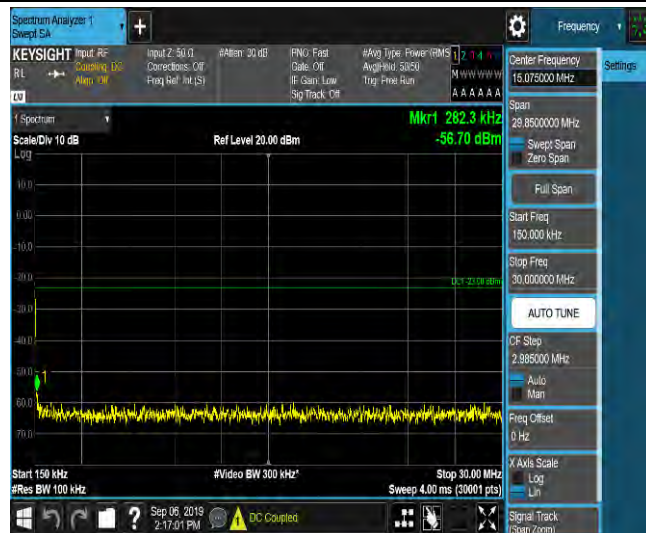
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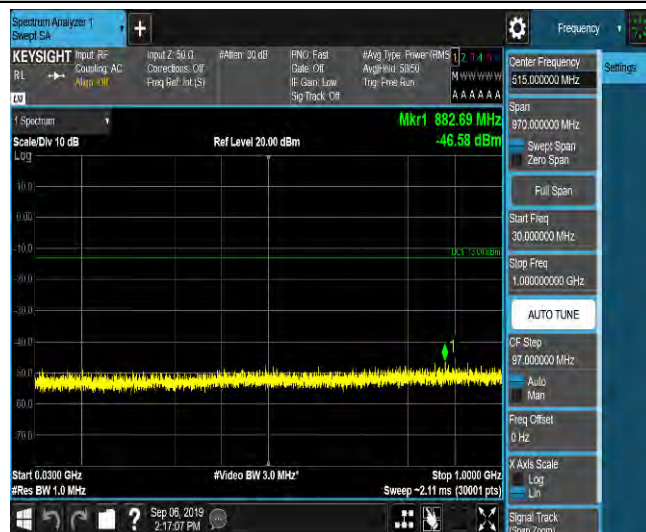
LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range1:0.009~0.15MHz_-62.31_PASS



LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range2:0.15~30MHz_-56.7_PASS



LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range3:30~1000MHz_-46.58_PASS



LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range4:1000~5000MHz_-54.33_PASS



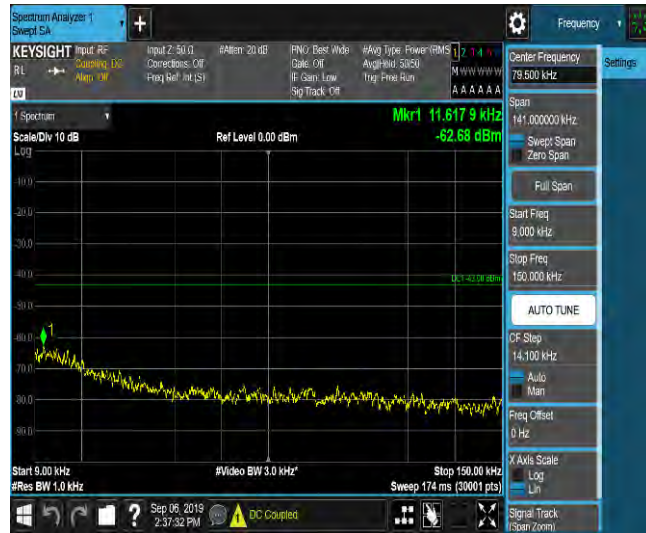
LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range5:5000~12000MHz_-65.56_PASS



LTE Band 2_1.4MHz_16QAM_18607_1RB#0_Range6:12000~18000MHz_-55.37_PASS



LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range1:0.009~0.15MHz_-62.68_PASS



LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range2:0.15~30MHz_-58.57_PASS



LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range3:30~1000MHz_-46.83_PASS



LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range4:1000~5000MHz_-54.5_PASS



LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range5:5000~12000MHz_-65.05_PASS



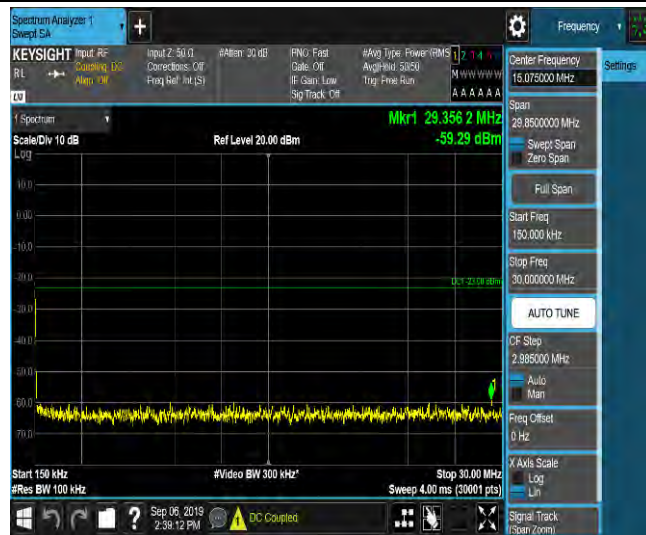
LTE Band 2_1.4MHz_QPSK_18900_1RB#0_Range6:12000~18000MHz_-55.35_PASS



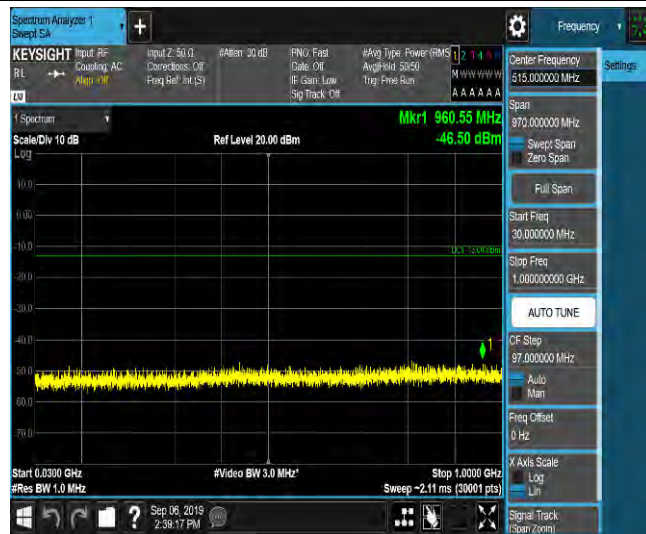
LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range1:0.009~0.15MHz_-61.09_PASS



LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range2:0.15~30MHz_-59.29_PASS



LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range3:30~1000MHz_-46.51_PASS



LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range4:1000~5000MHz_-54.44_PASS



LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range5:5000~12000MHz_-65.13_PASS



LTE Band 2_1.4MHz_16QAM_18900_1RB#0_Range6:12000~18000MHz_-55.17_PASS



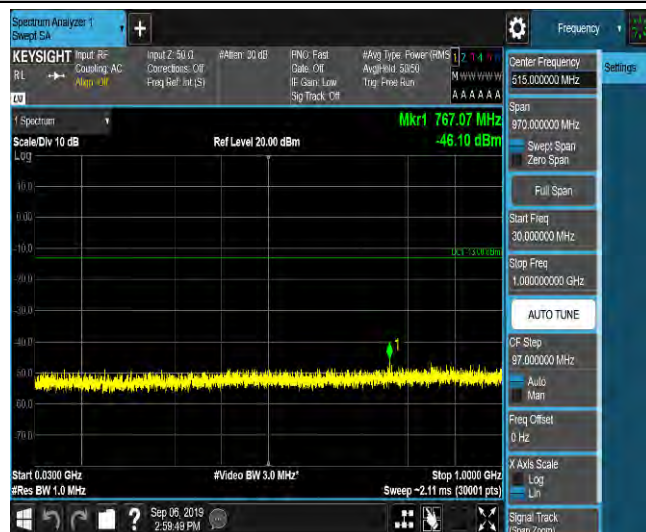
LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range1:0.009~0.15MHz_-62.41_PASS



LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range2:0.15~30MHz_-57.76_PASS



LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range3:30~1000MHz_-46.1_PASS



LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range4:1000~5000MHz_-54.37_PASS



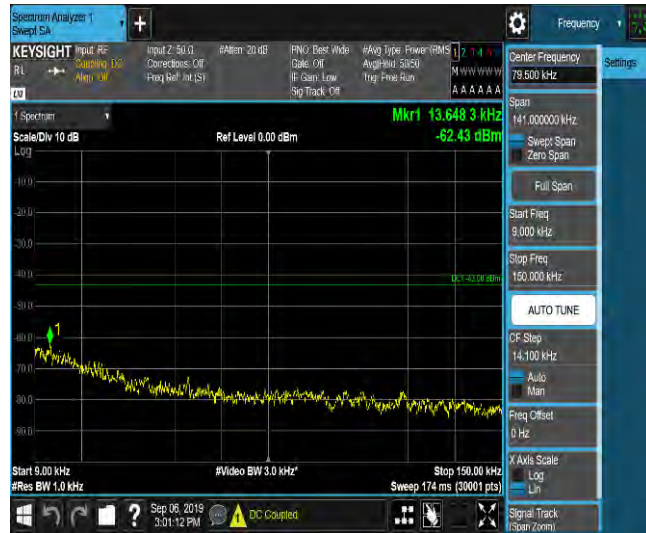
LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range5:5000~12000MHz_-63.23_PASS



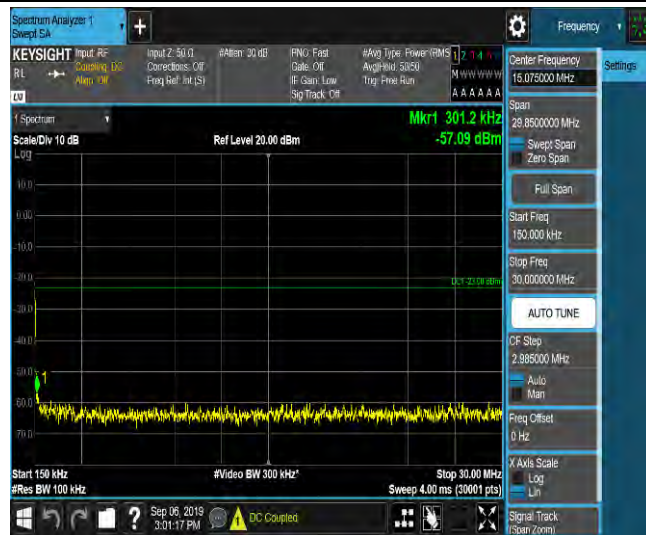
LTE Band 2_1.4MHz_QPSK_19193_1RB#0_Range6:12000~18000MHz_-55.34_PASS



LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range1:0.009~0.15MHz_-62.43_PASS



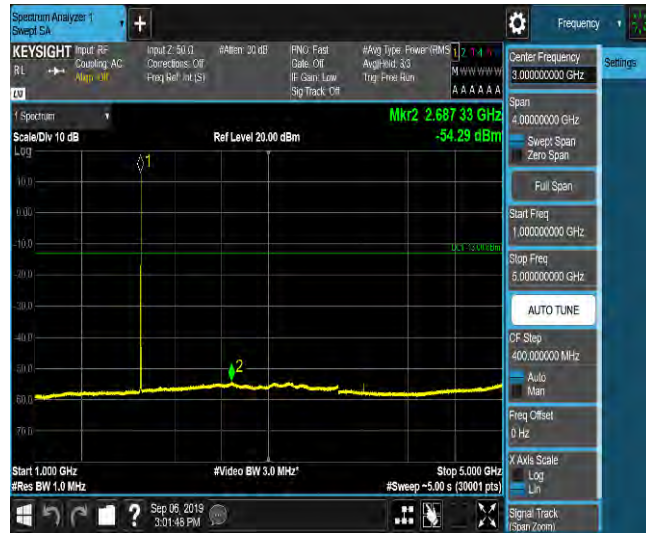
LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range2:0.15~30MHz_-57.09_PASS



LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range3:30~1000MHz_-47.23_PASS



LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range4:1000~5000MHz_-54.29_PASS



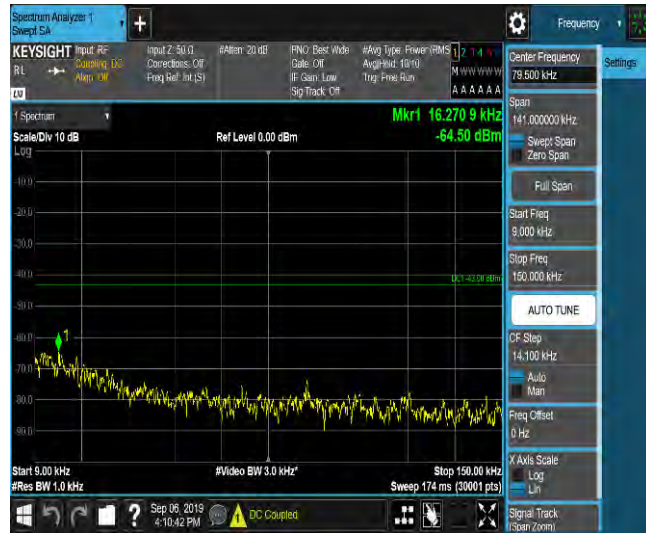
LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range5:5000~12000MHz_-63.85_PASS



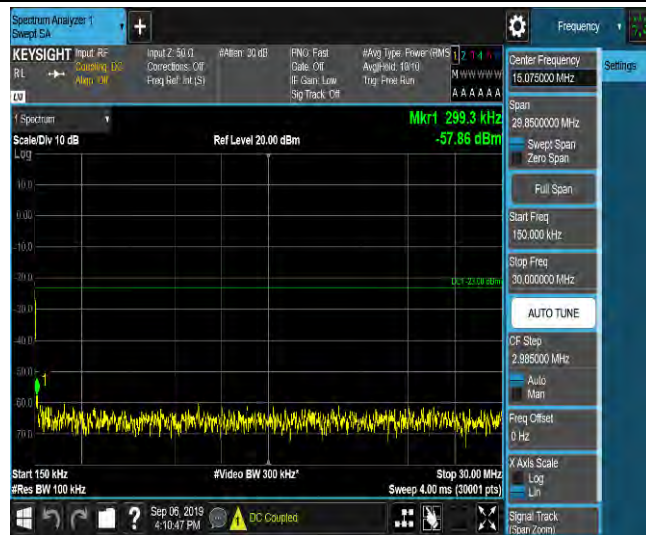
LTE Band 2_1.4MHz_16QAM_19193_1RB#0_Range6:12000~18000MHz_-55.28_PASS



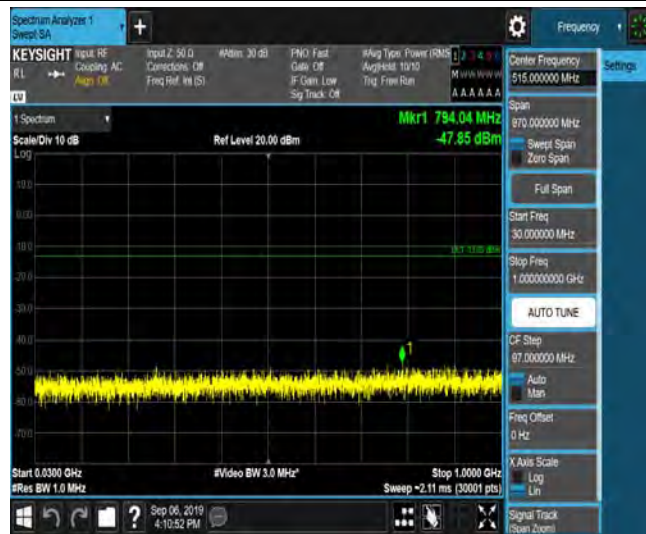
LTE Band 2_3MHz_QPSK_18615_1RB#0_Range1:0.009~0.15MHz_-64.5_PASS



LTE Band 2_3MHz_QPSK_18615_1RB#0_Range2:0.15~30MHz_-57.86_PASS



LTE Band 2_3MHz_QPSK_18615_1RB#0_Range3:30~1000MHz_-47.85_PASS



LTE Band 2_3MHz_QPSK_18615_1RB#0_Range4:1000~5000MHz_-54.39_PASS



LTE Band 2_3MHz_QPSK_18615_1RB#0_Range5:5000~12000MHz_-65.64_PASS



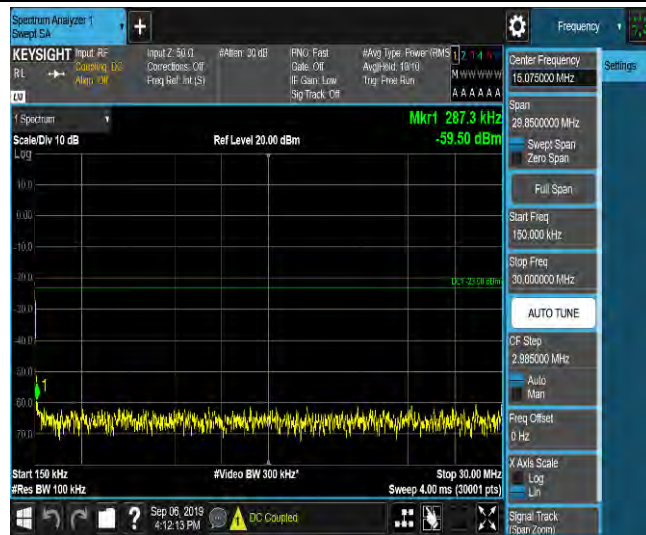
LTE Band 2_3MHz_QPSK_18615_1RB#0_Range6:12000~18000MHz_-55.37_PASS



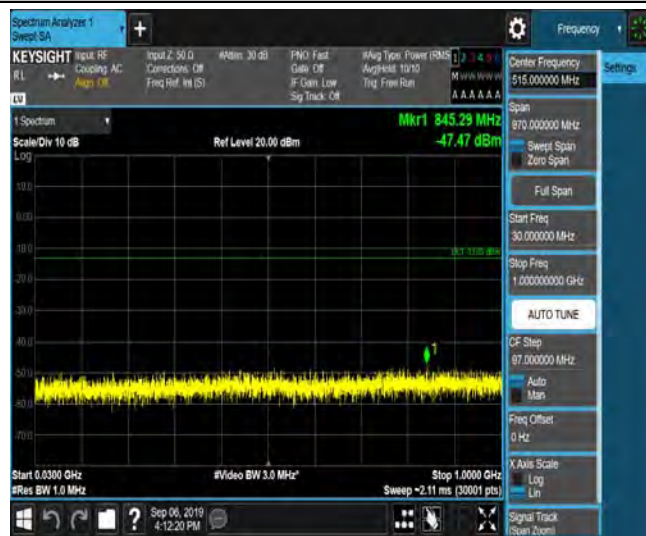
LTE Band 2_3MHz_16QAM_18615_1RB#0_Range1:0.009~0.15MHz_-65.02_PASS



LTE Band 2_3MHz_16QAM_18615_1RB#0_Range2:0.15~30MHz_-59.5_PASS



LTE Band 2_3MHz_16QAM_18615_1RB#0_Range3:30~1000MHz_-47.47_PASS



LTE Band 2_3MHz_16QAM_18615_1RB#0_Range4:1000~5000MHz_-54.41_PASS



LTE Band 2_3MHz_16QAM_18615_1RB#0_Range5:5000~12000MHz_-65.7_PASS



LTE Band 2_3MHz_16QAM_18615_1RB#0_Range6:12000~18000MHz_-55.32_PASS



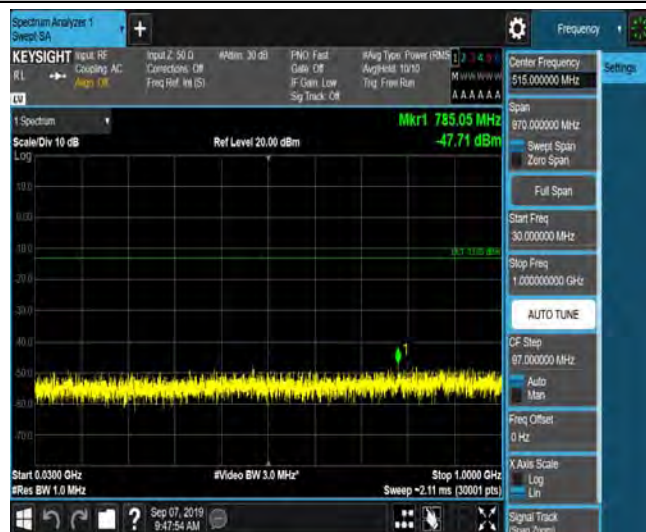
LTE Band 2_3MHz_QPSK_18900_1RB#0_Range1:0.009~0.15MHz_-63.48_PASS



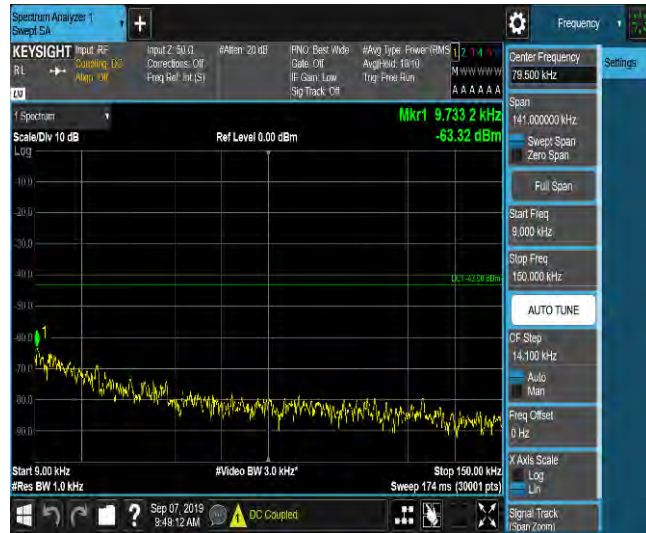
LTE Band 2_3MHz_QPSK_18900_1RB#0_Range2:0.15~30MHz_-59.97_PASS



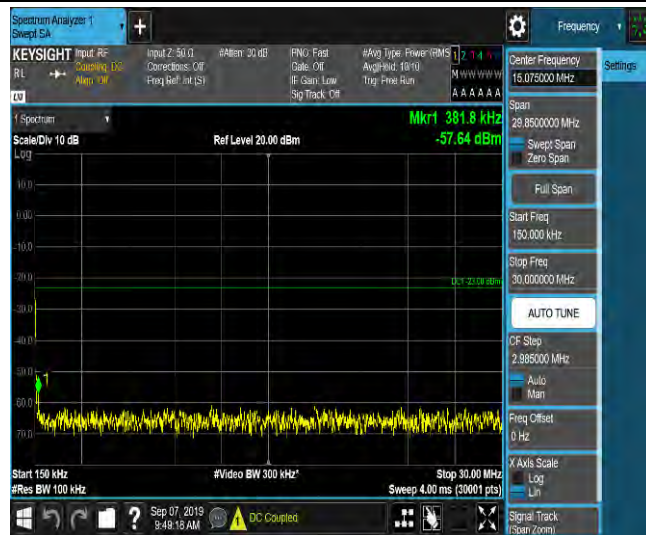
LTE Band 2_3MHz_QPSK_18900_1RB#0_Range3:30~1000MHz_-47.71_PASS



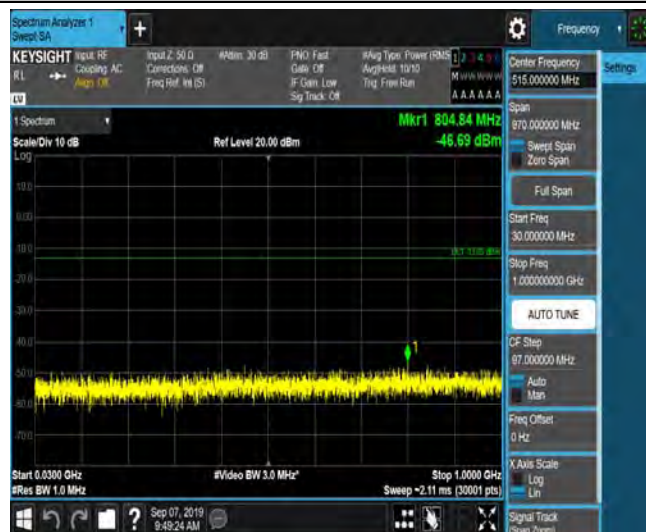
LTE Band 2_3MHz_QPSK_18900_1RB#0_Range4:1000~5000MHz_-54.29_PASS



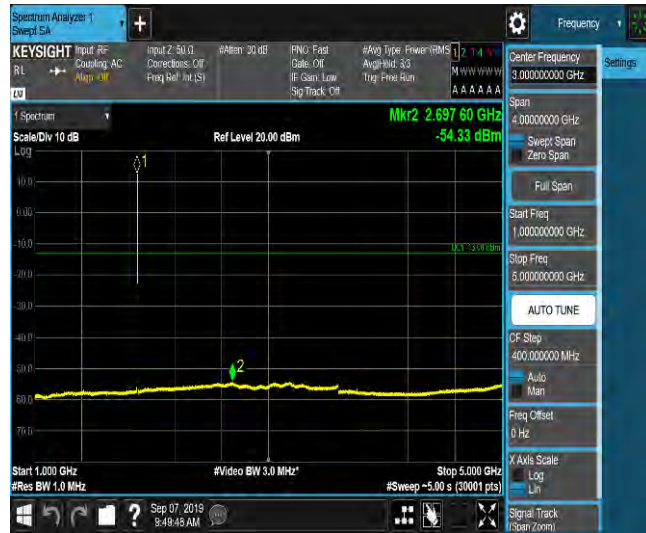
LTE Band 2_3MHz_16QAM_18900_1RB#0_Range2:0.15~30MHz_-57.64_PASS



LTE Band 2_3MHz_16QAM_18900_1RB#0_Range3:30~1000MHz_-46.69_PASS



LTE Band 2_3MHz_16QAM_18900_1RB#0_Range4:1000~5000MHz_-54.33_PASS



LTE Band 2_3MHz_16QAM_18900_1RB#0_Range5:5000~12000MHz_-65.69_PASS



LTE Band 2_3MHz_16QAM_18900_1RB#0_Range6:12000~18000MHz_-55.31_PASS



LTE Band 2_3MHz_QPSK_19185_1RB#0_Range1:0.009~0.15MHz_-63.99_PASS



LTE Band 2_3MHz_QPSK_19185_1RB#0_Range2:0.15~30MHz_-60.14_PASS



LTE Band 2_3MHz_QPSK_19185_1RB#0_Range3:30~1000MHz_-47.28_PASS



LTE Band 2_3MHz_QPSK_19185_1RB#0_Range4:1000~5000MHz_-54.43_PASS



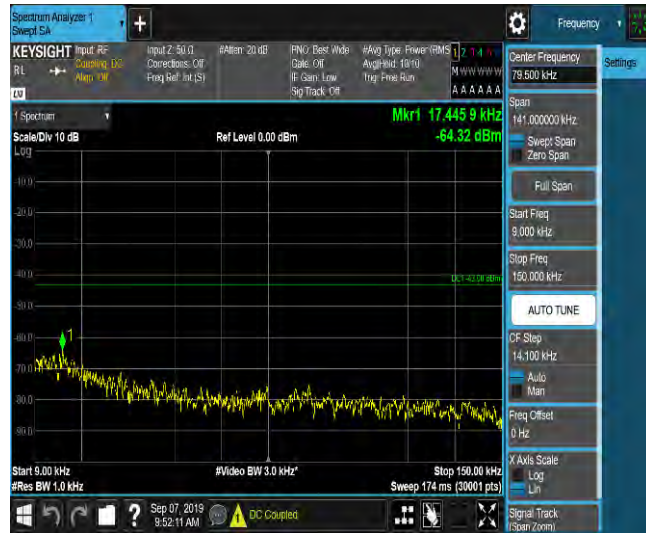
LTE Band 2_3MHz_QPSK_19185_1RB#0_Range5:5000~12000MHz_-63.08_PASS



LTE Band 2_3MHz_QPSK_19185_1RB#0_Range6:12000~18000MHz_-55.51_PASS



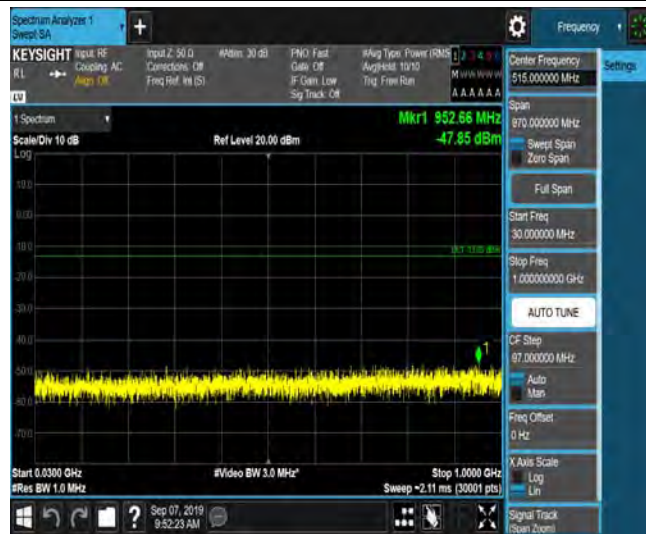
LTE Band 2_3MHz_16QAM_19185_1RB#0_Range1:0.009~0.15MHz_-64.32_PASS



LTE Band 2_3MHz_16QAM_19185_1RB#0_Range2:0.15~30MHz_-60.05_PASS



LTE Band 2_3MHz_16QAM_19185_1RB#0_Range3:30~1000MHz_-47.85_PASS



LTE Band 2_3MHz_16QAM_19185_1RB#0_Range4:1000~5000MHz_-54.44_PASS



LTE Band 2_3MHz_16QAM_19185_1RB#0_Range5:5000~12000MHz_-63.72_PASS



LTE Band 2_3MHz_16QAM_19185_1RB#0_Range6:12000~18000MHz_-55.47_PASS



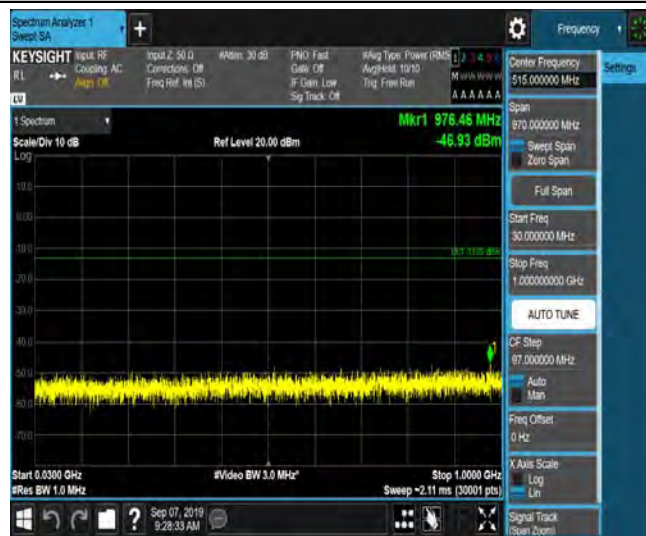
LTE Band 2_5MHz_QPSK_18625_1RB#0_Range1:0.009~0.15MHz_-64.03_PASS



LTE Band 2_5MHz_QPSK_18625_1RB#0_Range2:0.15~30MHz_-58.77_PASS



LTE Band 2_5MHz_QPSK_18625_1RB#0_Range3:30~1000MHz_-46.93_PASS



LTE Band 2_5MHz_QPSK_18625_1RB#0_Range4:1000~5000MHz_-54.33_PASS



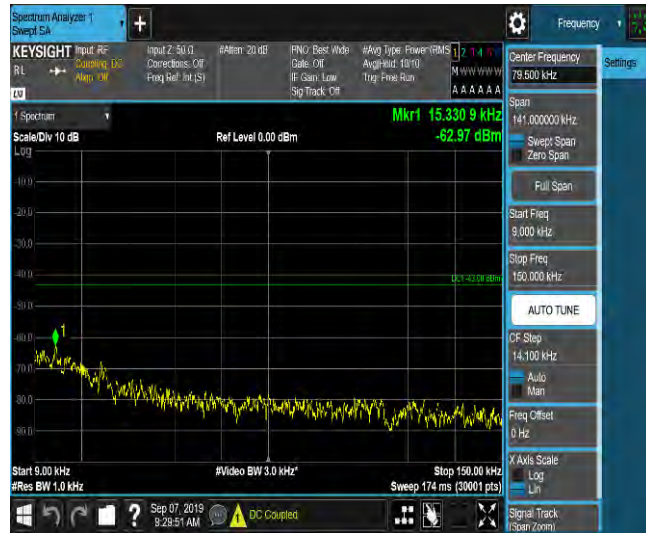
LTE Band 2_5MHz_QPSK_18625_1RB#0_Range5:5000~12000MHz_-65.85_PASS



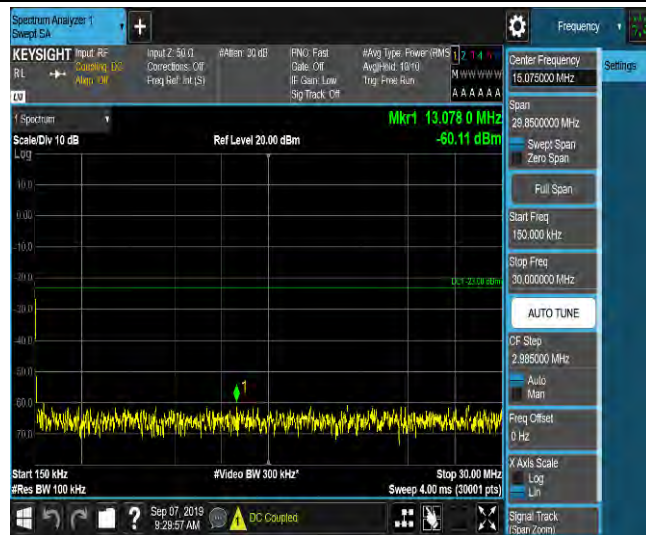
LTE Band 2_5MHz_QPSK_18625_1RB#0_Range6:12000~18000MHz_-55.42_PASS



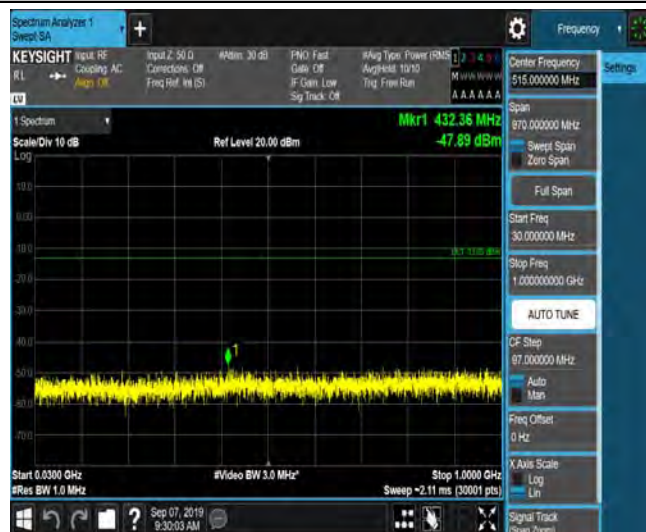
LTE Band 2_5MHz_16QAM_18625_1RB#0_Range1:0.009~0.15MHz_-62.97_PASS



LTE Band 2_5MHz_16QAM_18625_1RB#0_Range2:0.15~30MHz_-60.11_PASS



LTE Band 2_5MHz_16QAM_18625_1RB#0_Range3:30~1000MHz_-47.9_PASS



LTE Band 2_5MHz_16QAM_18625_1RB#0_Range4:1000~5000MHz_-54.4_PASS



LTE Band 2_5MHz_16QAM_18625_1RB#0_Range5:5000~12000MHz_-65.47_PASS



LTE Band 2_5MHz_16QAM_18625_1RB#0_Range6:12000~18000MHz_-55.5_PASS



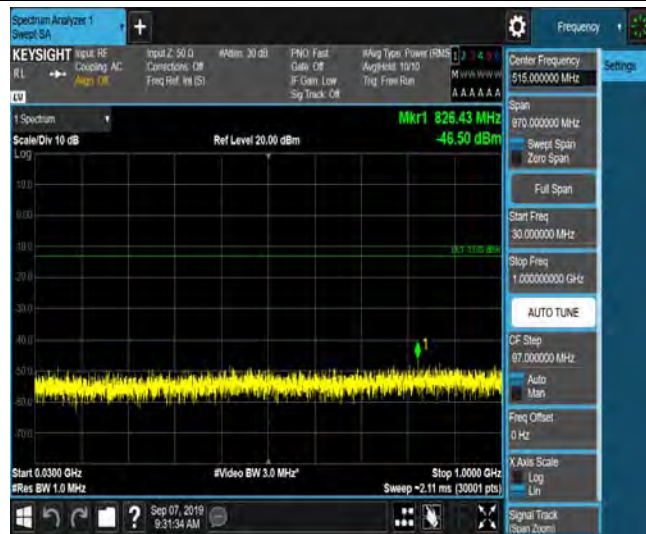
LTE Band 2_5MHz_QPSK_18900_1RB#0_Range1:0.009~0.15MHz_-63.82_PASS



LTE Band 2_5MHz_QPSK_18900_1RB#0_Range2:0.15~30MHz_-59.72_PASS



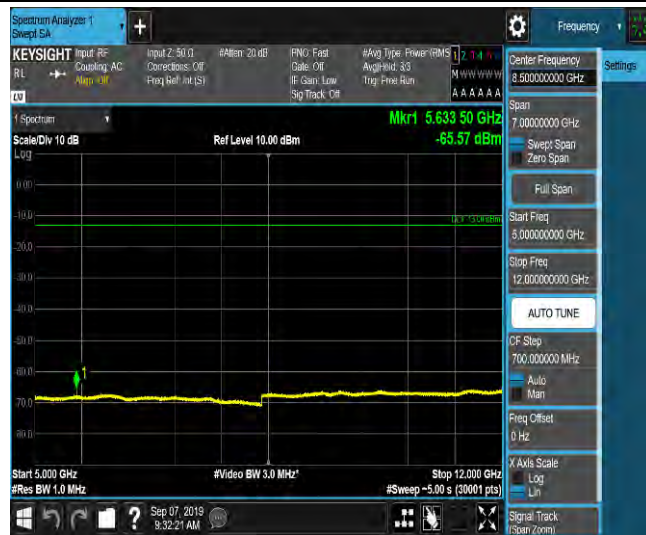
LTE Band 2_5MHz_QPSK_18900_1RB#0_Range3:30~1000MHz_-46.5_PASS



LTE Band 2_5MHz_QPSK_18900_1RB#0_Range4:1000~5000MHz_-54.34_PASS



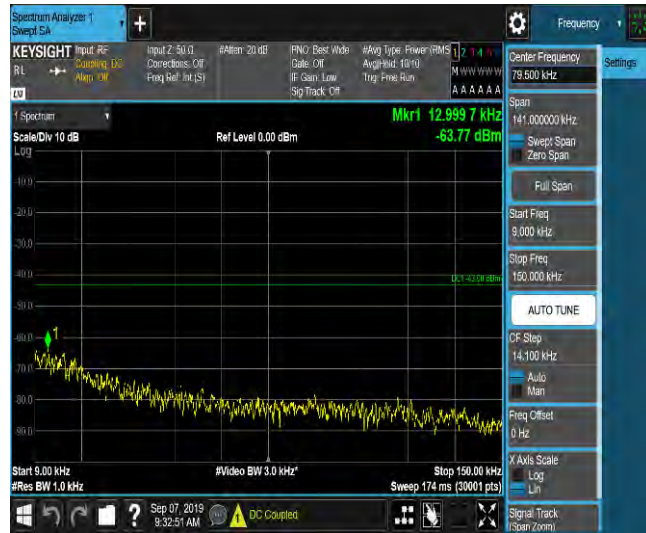
LTE Band 2_5MHz_QPSK_18900_1RB#0_Range5:5000~12000MHz_-65.57_PASS



LTE Band 2_5MHz_QPSK_18900_1RB#0_Range6:12000~18000MHz_-55.43_PASS



LTE Band 2_5MHz_16QAM_18900_1RB#0_Range1:0.009~0.15MHz_-63.77_PASS



LTE Band 2_5MHz_16QAM_18900_1RB#0_Range2:0.15~30MHz_-59.93_PASS



LTE Band 2_5MHz_16QAM_18900_1RB#0_Range3:30~1000MHz_-47.63_PASS



LTE Band 2_5MHz_16QAM_18900_1RB#0_Range4:1000~5000MHz_-54.36_PASS



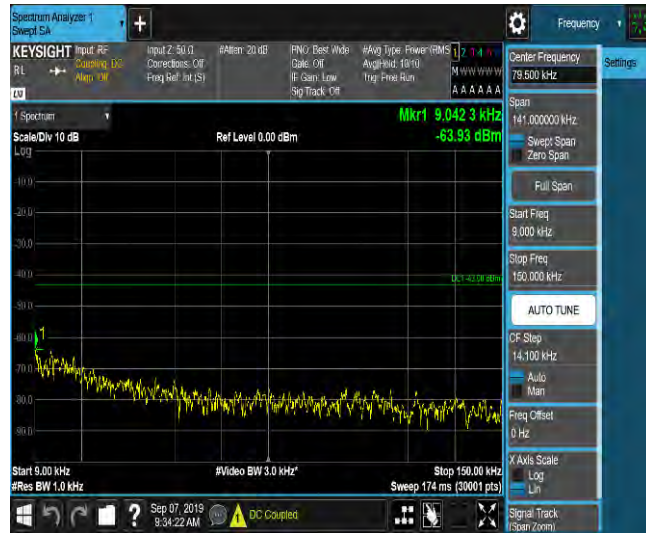
LTE Band 2_5MHz_16QAM_18900_1RB#0_Range5:5000~12000MHz_-65.8_PASS



LTE Band 2_5MHz_16QAM_18900_1RB#0_Range6:12000~18000MHz_-55.48_PASS



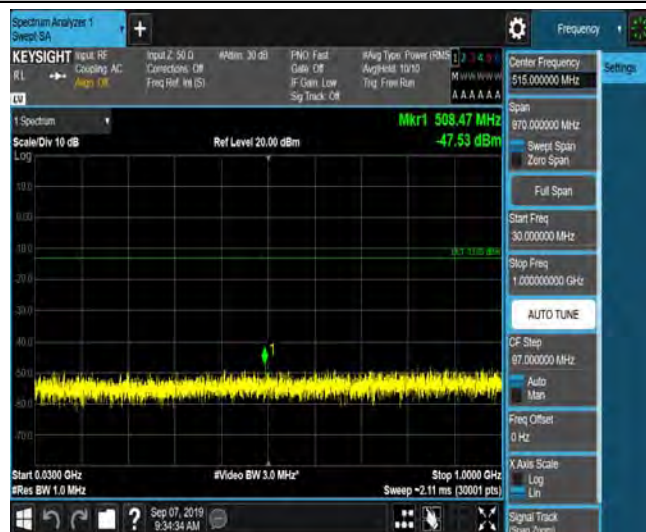
LTE Band 2_5MHz_QPSK_19175_1RB#0_Range1:0.009~0.15MHz_-63.94_PASS



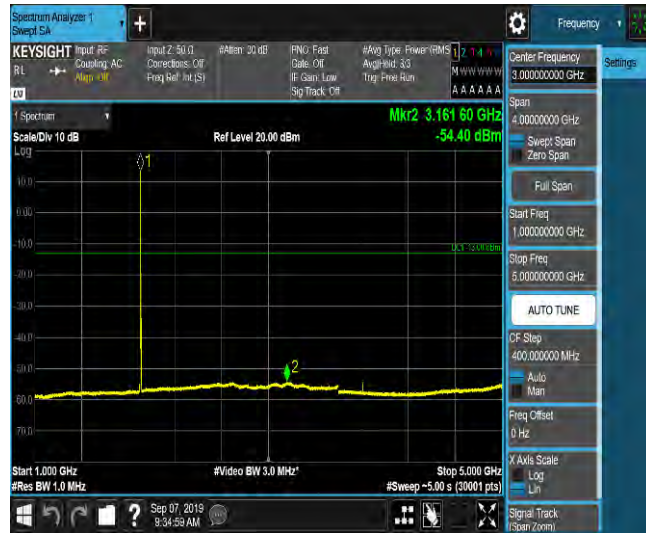
LTE Band 2_5MHz_QPSK_19175_1RB#0_Range2:0.15~30MHz_-59.19_PASS



LTE Band 2_5MHz_QPSK_19175_1RB#0_Range3:30~1000MHz_-47.53_PASS



LTE Band 2_5MHz_QPSK_19175_1RB#0_Range4:1000~5000MHz_-54.4_PASS



LTE Band 2_5MHz_QPSK_19175_1RB#0_Range5:5000~12000MHz_-63.86_PASS



LTE Band 2_5MHz_QPSK_19175_1RB#0_Range6:12000~18000MHz_-55.44_PASS



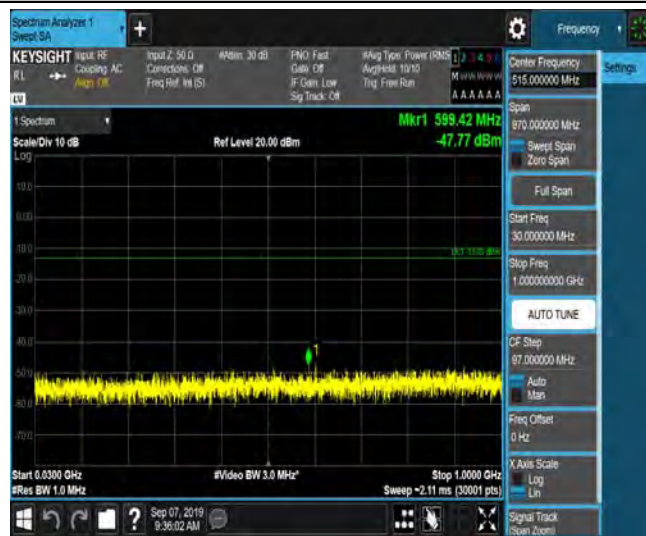
LTE Band 2_5MHz_16QAM_19175_1RB#0_Range1:0.009~0.15MHz_-63.59_PASS



LTE Band 2_5MHz_16QAM_19175_1RB#0_Range2:0.15~30MHz_-58.65_PASS



LTE Band 2_5MHz_16QAM_19175_1RB#0_Range3:30~1000MHz_-47.77_PASS



LTE Band 2_5MHz_16QAM_19175_1RB#0_Range4:1000~5000MHz_-54.44_PASS



LTE Band 2_5MHz_16QAM_19175_1RB#0_Range5:5000~12000MHz_-64.94_PASS



LTE Band 2_5MHz_16QAM_19175_1RB#0_Range6:12000~18000MHz_-55.45_PASS



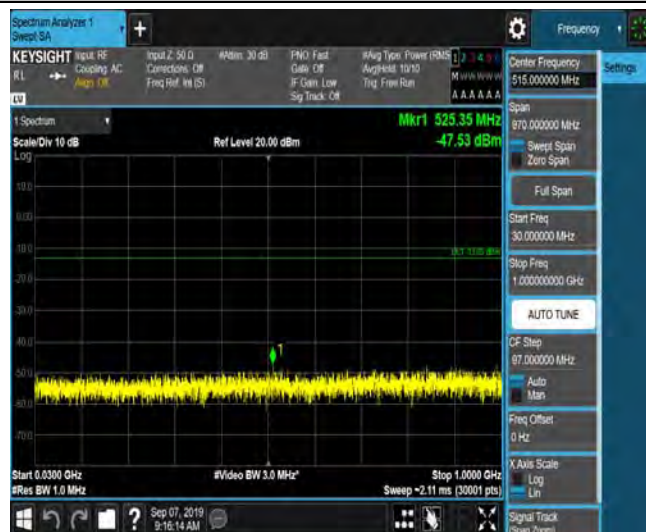
LTE Band 2_10MHz_QPSK_18650_1RB#0_Range1:0.009~0.15MHz_-64.15_PASS



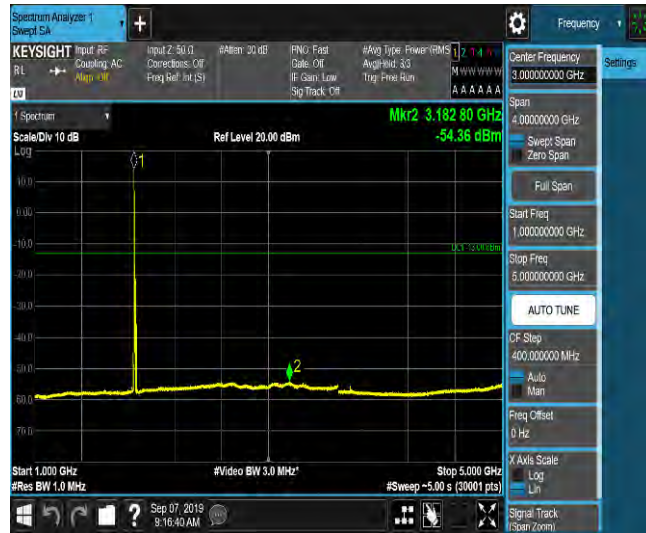
LTE Band 2_10MHz_QPSK_18650_1RB#0_Range2:0.15~30MHz_-59.87_PASS



LTE Band 2_10MHz_QPSK_18650_1RB#0_Range3:30~1000MHz_-47.53_PASS



LTE Band 2_10MHz_QPSK_18650_1RB#0_Range4:1000~5000MHz_-54.36_PASS



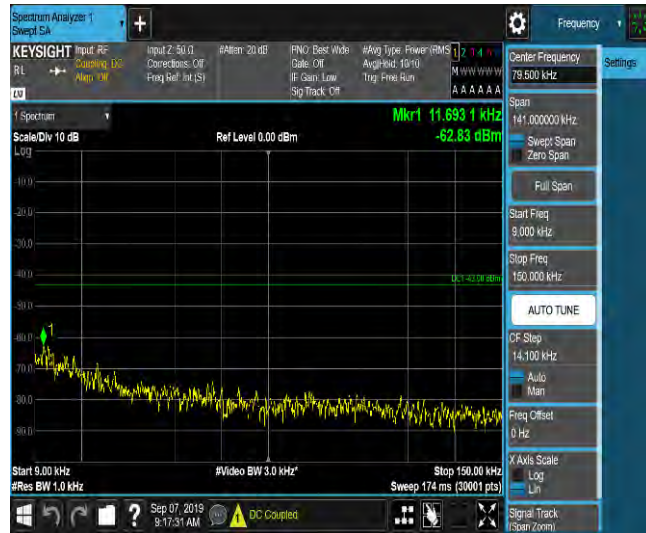
LTE Band 2_10MHz_QPSK_18650_1RB#0_Range5:5000~12000MHz_-65.7_PASS



LTE Band 2_10MHz_QPSK_18650_1RB#0_Range6:12000~18000MHz_-55.37_PASS



LTE Band 2_10MHz_16QAM_18650_1RB#0_Range1:0.009~0.15MHz_-62.83_PASS



LTE Band 2_10MHz_16QAM_18650_1RB#0_Range2:0.15~30MHz_-60.42_PASS



LTE Band 2_10MHz_16QAM_18650_1RB#0_Range3:30~1000MHz_-48.17_PASS



LTE Band 2_10MHz_16QAM_18650_1RB#0_Range4:1000~5000MHz_-54.28_PASS



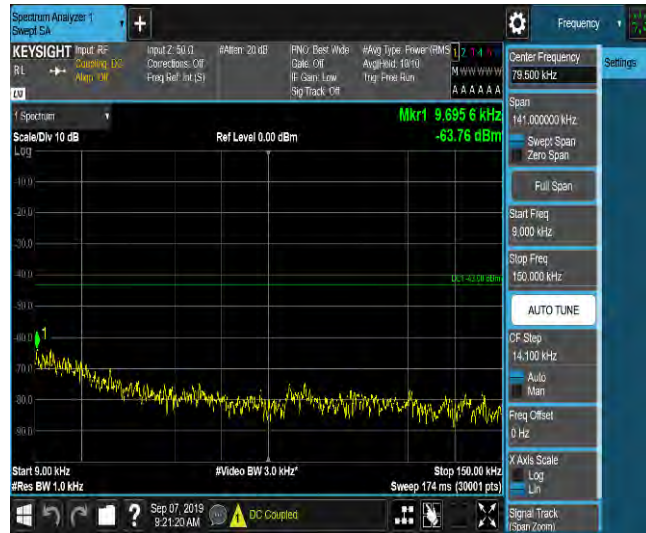
LTE Band 2_10MHz_16QAM_18650_1RB#0_Range5:5000~12000MHz_-65.69_PASS



LTE Band 2_10MHz_16QAM_18650_1RB#0_Range6:12000~18000MHz_-55.47_PASS



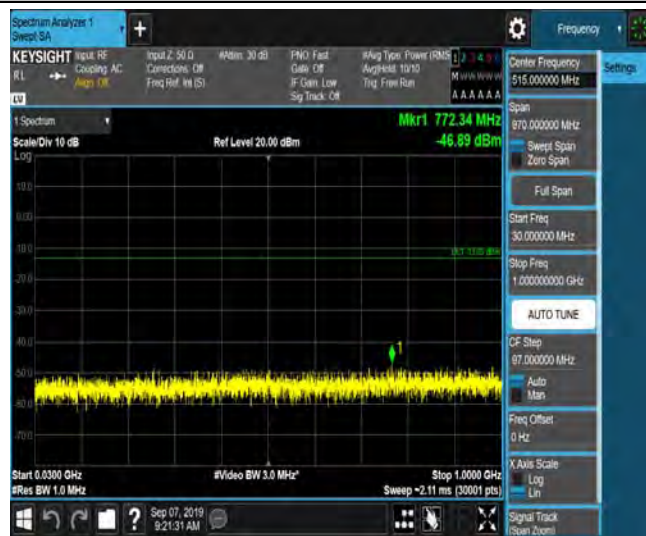
LTE Band 2_10MHz_QPSK_18900_1RB#0_Range1:0.009~0.15MHz_-63.76_PASS



LTE Band 2_10MHz_QPSK_18900_1RB#0_Range2:0.15~30MHz_-58.89_PASS



LTE Band 2_10MHz_QPSK_18900_1RB#0_Range3:30~1000MHz_-46.89_PASS



LTE Band 2_10MHz_QPSK_18900_1RB#0_Range4:1000~5000MHz_-54.41_PASS



LTE Band 2_10MHz_QPSK_18900_1RB#0_Range5:5000~12000MHz_-65.47_PASS



LTE Band 2_10MHz_QPSK_18900_1RB#0_Range6:12000~18000MHz_-55.38_PASS



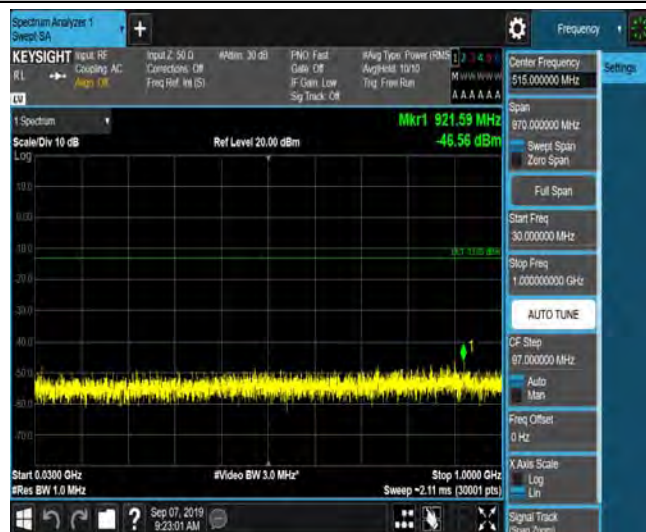
LTE Band 2_10MHz_16QAM_18900_1RB#0_Range1:0.009~0.15MHz_-61.87_PASS



LTE Band 2_10MHz_16QAM_18900_1RB#0_Range2:0.15~30MHz_-60.78_PASS



LTE Band 2_10MHz_16QAM_18900_1RB#0_Range3:30~1000MHz_-46.56_PASS



LTE Band 2_10MHz_16QAM_18900_1RB#0_Range4:1000~5000MHz_-54.3_PASS



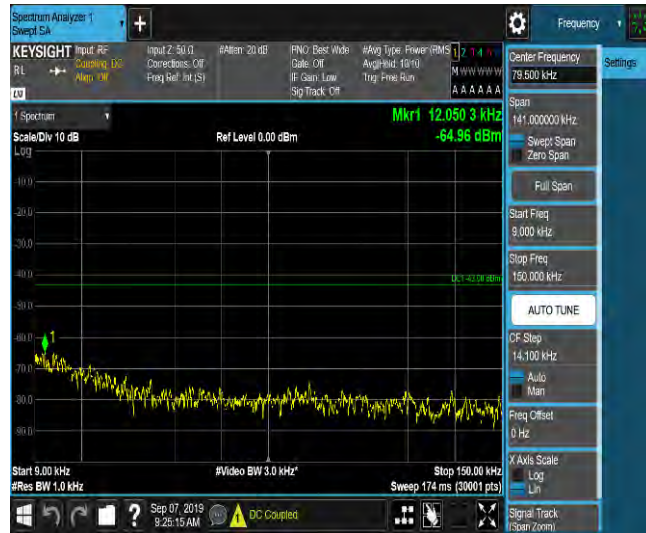
LTE Band 2_10MHz_16QAM_18900_1RB#0_Range5:5000~12000MHz_-65.69_PASS



LTE Band 2_10MHz_16QAM_18900_1RB#0_Range6:12000~18000MHz_-55.38_PASS



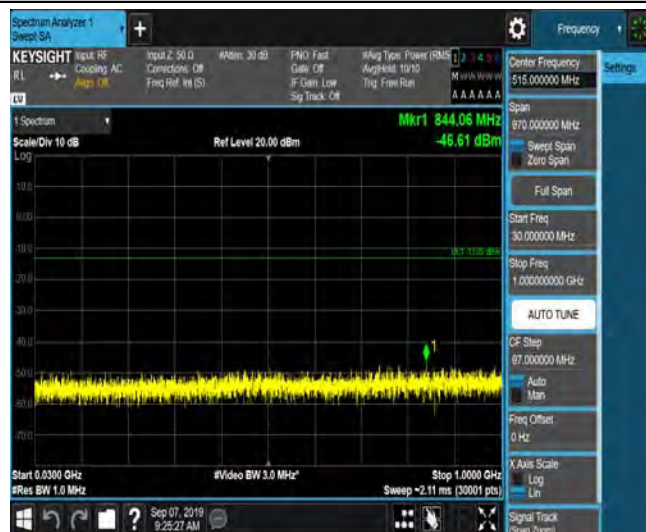
LTE Band 2_10MHz_QPSK_19150_1RB#0_Range1:0.009~0.15MHz_-64.96_PASS



LTE Band 2_10MHz_QPSK_19150_1RB#0_Range2:0.15~30MHz_-59_PASS



LTE Band 2_10MHz_QPSK_19150_1RB#0_Range3:30~1000MHz_-46.61_PASS



LTE Band 2_10MHz_QPSK_19150_1RB#0_Range4:1000~5000MHz_-54.37_PASS



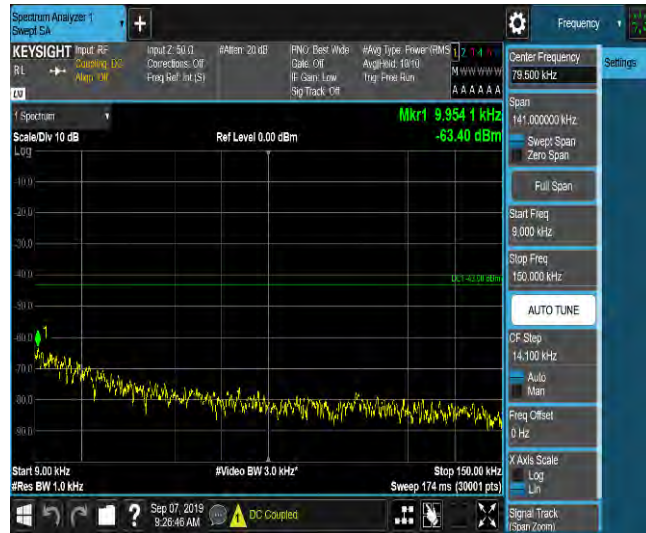
LTE Band 2_10MHz_QPSK_19150_1RB#0_Range5:5000~12000MHz_-64.39_PASS



LTE Band 2_10MHz_QPSK_19150_1RB#0_Range6:12000~18000MHz_-55.42_PASS



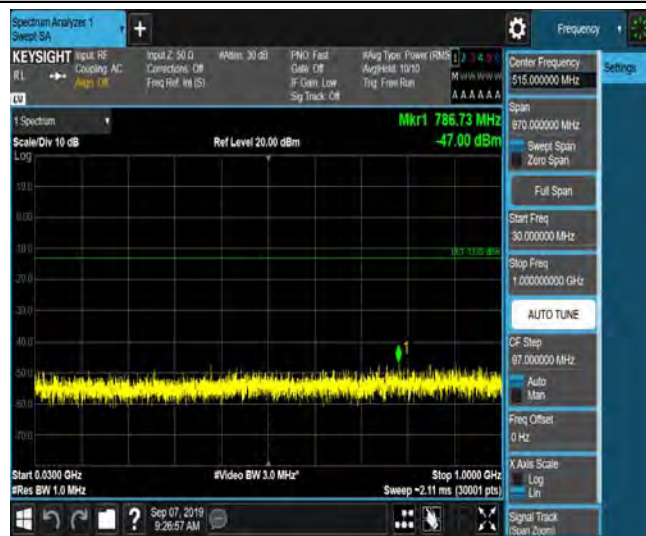
LTE Band 2_10MHz_16QAM_19150_1RB#0_Range1:0.009~0.15MHz_-63.4_PASS



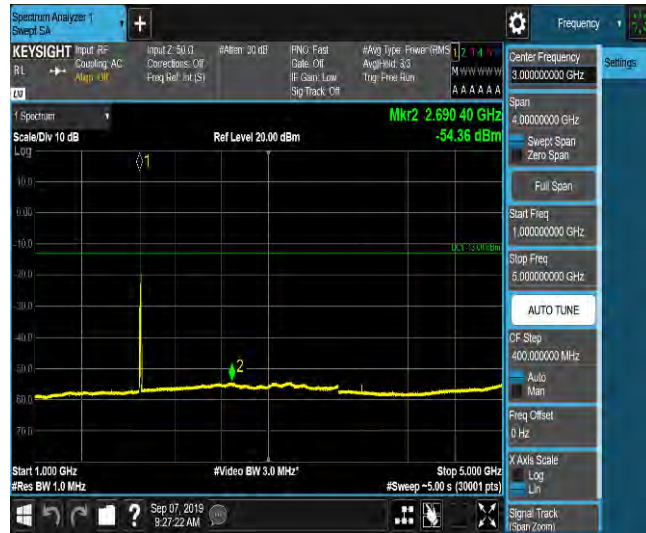
LTE Band 2_10MHz_16QAM_19150_1RB#0_Range2:0.15~30MHz_-59.71_PASS



LTE Band 2_10MHz_16QAM_19150_1RB#0_Range3:30~1000MHz_-47_PASS



LTE Band 2_10MHz_16QAM_19150_1RB#0_Range4:1000~5000MHz_-54.36_PASS



LTE Band 2_10MHz_16QAM_19150_1RB#0_Range5:5000~12000MHz_-65.29_PASS



LTE Band 2_10MHz_16QAM_19150_1RB#0_Range6:12000~18000MHz_-55.49_PASS



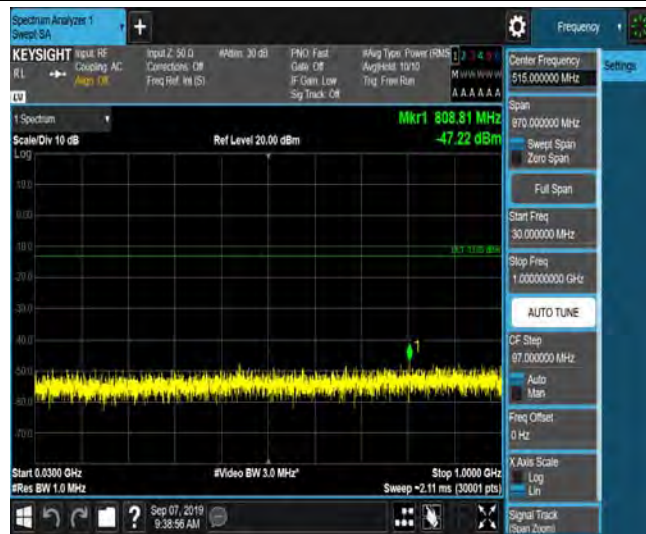
LTE Band 2_15MHz_QPSK_18675_1RB#0_Range1:0.009~0.15MHz_-64.55_PASS



LTE Band 2_15MHz_QPSK_18675_1RB#0_Range2:0.15~30MHz_-59.94_PASS



LTE Band 2_15MHz_QPSK_18675_1RB#0_Range3:30~1000MHz_-47.22_PASS



LTE Band 2_15MHz_QPSK_18675_1RB#0_Range4:1000~5000MHz_-54.3_PASS



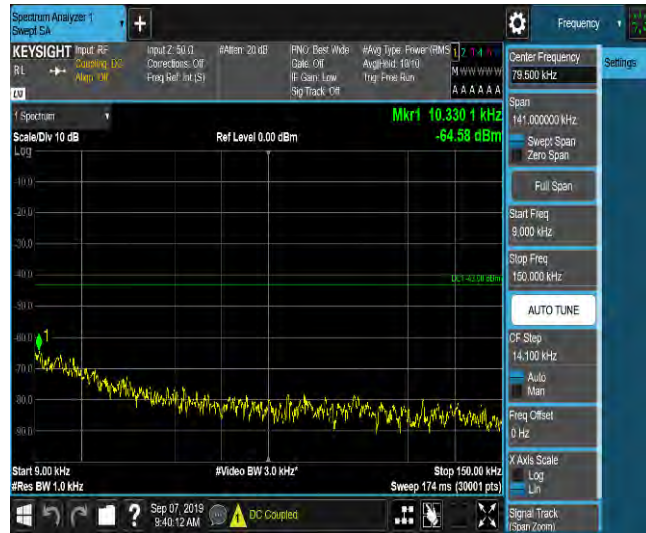
LTE Band 2_15MHz_QPSK_18675_1RB#0_Range5:5000~12000MHz_-65.57_PASS



LTE Band 2_15MHz_QPSK_18675_1RB#0_Range6:12000~18000MHz_-55.5_PASS



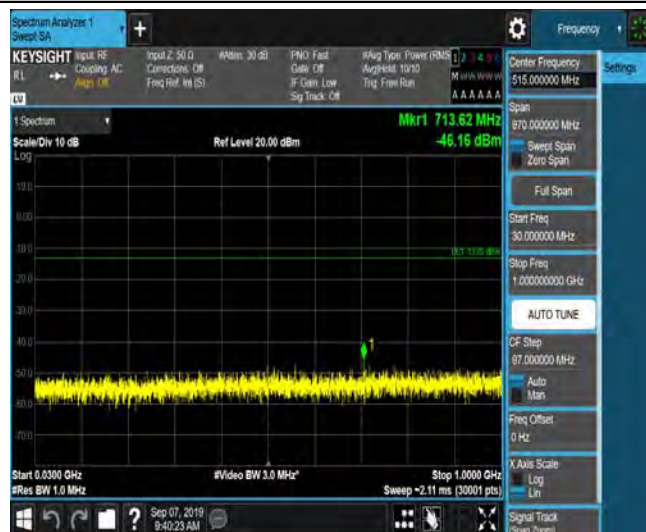
LTE Band 2_15MHz_16QAM_18675_1RB#0_Range1:0.009~0.15MHz_-64.58_PASS



LTE Band 2_15MHz_16QAM_18675_1RB#0_Range2:0.15~30MHz_-60.41_PASS



LTE Band 2_15MHz_16QAM_18675_1RB#0_Range3:30~1000MHz_-46.16_PASS



LTE Band 2_15MHz_16QAM_18675_1RB#0_Range4:1000~5000MHz_-54.29_PASS



LTE Band 2_15MHz_16QAM_18675_1RB#0_Range5:5000~12000MHz_-65.71_PASS



LTE Band 2_15MHz_16QAM_18675_1RB#0_Range6:12000~18000MHz_-55.46_PASS



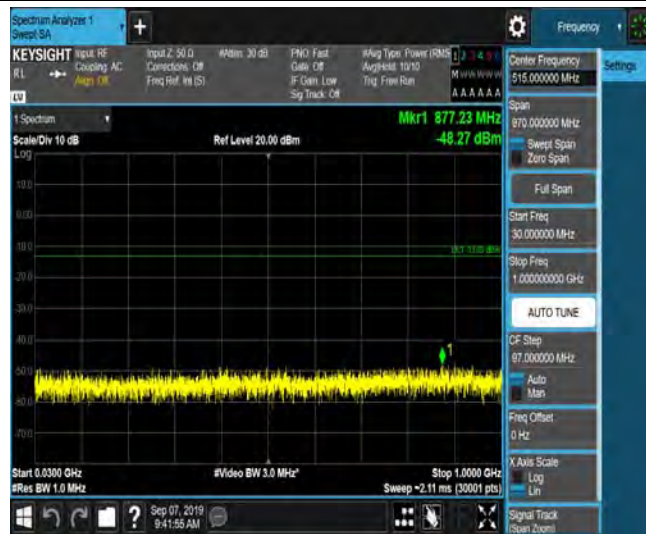
LTE Band 2_15MHz_QPSK_18900_1RB#0_Range1:0.009~0.15MHz_-63.82_PASS



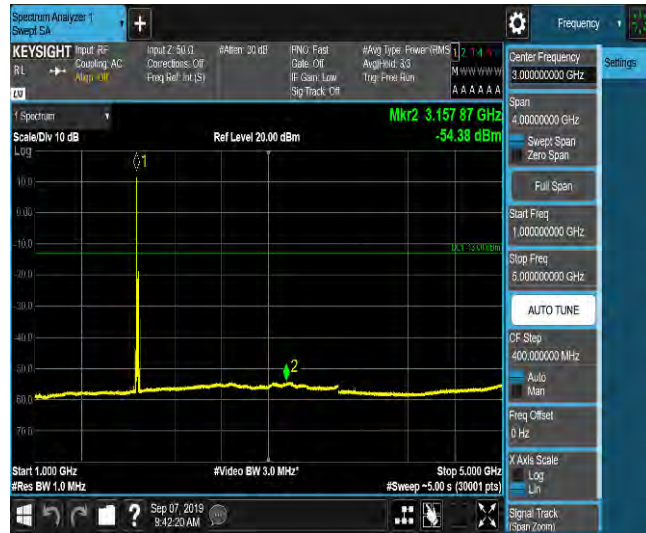
LTE Band 2_15MHz_QPSK_18900_1RB#0_Range2:0.15~30MHz_-59.24_PASS



LTE Band 2_15MHz_QPSK_18900_1RB#0_Range3:30~1000MHz_-48.27_PASS



LTE Band 2_15MHz_QPSK_18900_1RB#0_Range4:1000~5000MHz_-54.38_PASS



LTE Band 2_15MHz_QPSK_18900_1RB#0_Range5:5000~12000MHz_-65.7_PASS



LTE Band 2_15MHz_QPSK_18900_1RB#0_Range6:12000~18000MHz_-55.43_PASS



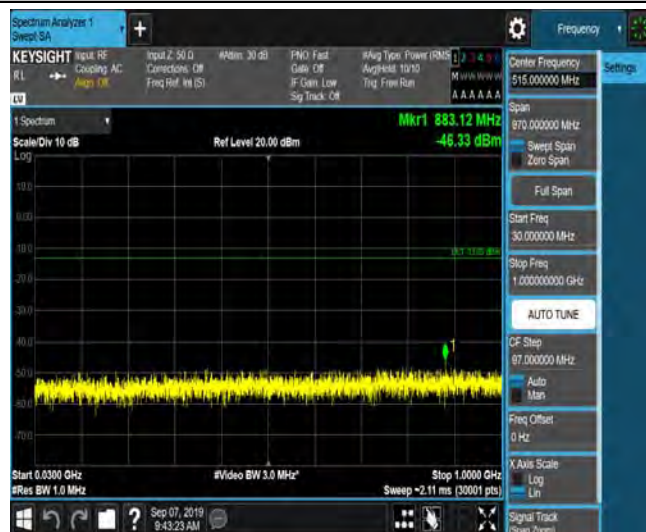
LTE Band 2_15MHz_16QAM_18900_1RB#0_Range1:0.009~0.15MHz_-63.64_PASS



LTE Band 2_15MHz_16QAM_18900_1RB#0_Range2:0.15~30MHz_-59.76_PASS



LTE Band 2_15MHz_16QAM_18900_1RB#0_Range3:30~1000MHz_-46.33_PASS



LTE Band 2_15MHz_16QAM_18900_1RB#0_Range4:1000~5000MHz_-54.35_PASS



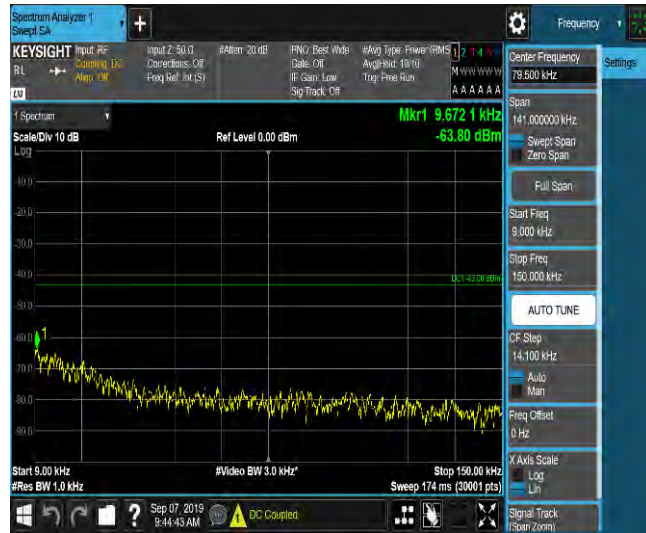
LTE Band 2_15MHz_16QAM_18900_1RB#0_Range5:5000~12000MHz_-65.75_PASS



LTE Band 2_15MHz_16QAM_18900_1RB#0_Range6:12000~18000MHz_-55.52_PASS



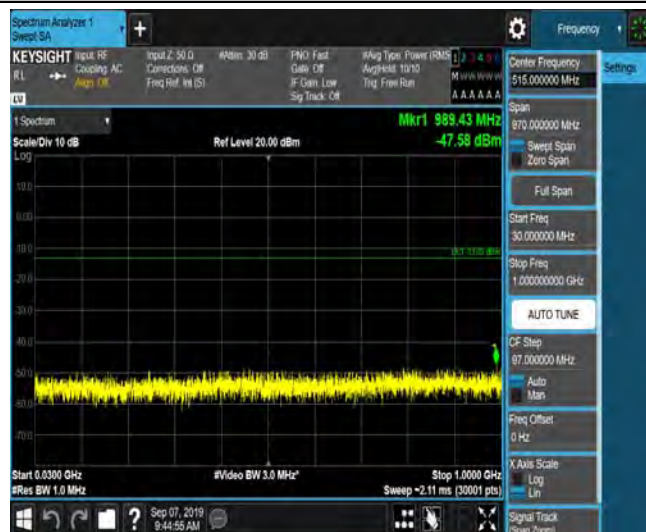
LTE Band 2_15MHz_QPSK_19125_1RB#0_Range1:0.009~0.15MHz_-63.8_PASS



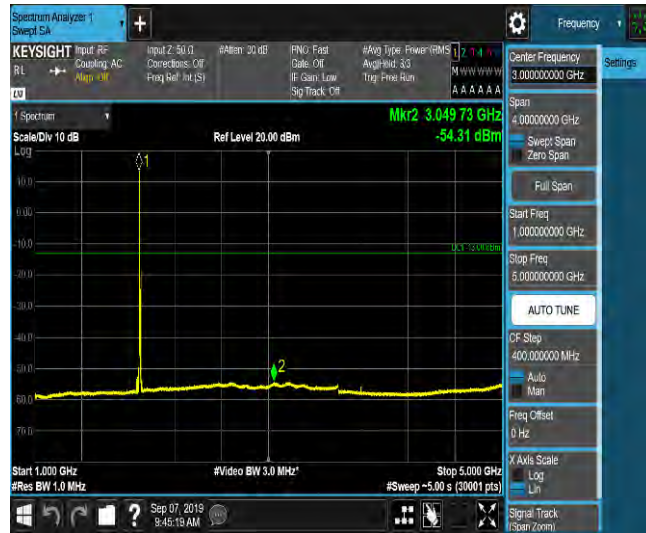
LTE Band 2_15MHz_QPSK_19125_1RB#0_Range2:0.15~30MHz_-59.98_PASS



LTE Band 2_15MHz_QPSK_19125_1RB#0_Range3:30~1000MHz_-47.59_PASS



LTE Band 2_15MHz_QPSK_19125_1RB#0_Range4:1000~5000MHz_-54.31_PASS



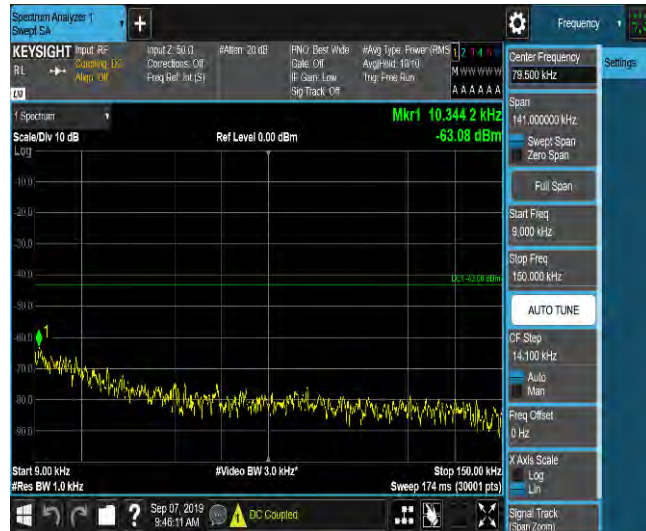
LTE Band 2_15MHz_QPSK_19125_1RB#0_Range5:5000~12000MHz_-64.48_PASS



LTE Band 2_15MHz_QPSK_19125_1RB#0_Range6:12000~18000MHz_-55.39_PASS



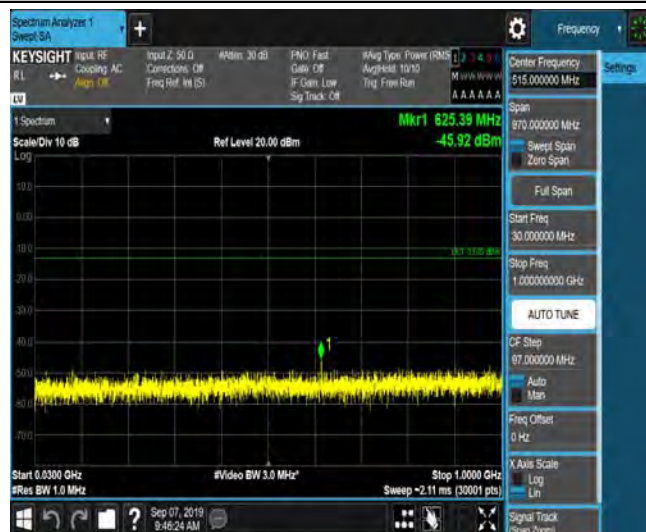
LTE Band 2_15MHz_16QAM_19125_1RB#0_Range1:0.009~0.15MHz_-63.08_PASS



LTE Band 2_15MHz_16QAM_19125_1RB#0_Range2:0.15~30MHz_-59.43_PASS



LTE Band 2_15MHz_16QAM_19125_1RB#0_Range3:30~1000MHz_-45.92_PASS



LTE Band 2_15MHz_16QAM_19125_1RB#0_Range4:1000~5000MHz_-54.36_PASS



LTE Band 2_15MHz_16QAM_19125_1RB#0_Range5:5000~12000MHz_-65.52_PASS



LTE Band 2_15MHz_16QAM_19125_1RB#0_Range6:12000~18000MHz_-55.45_PASS



LTE Band 2_20MHz_QPSK_18700_1RB#0_Range1:0.009~0.15MHz_-62.03_PASS