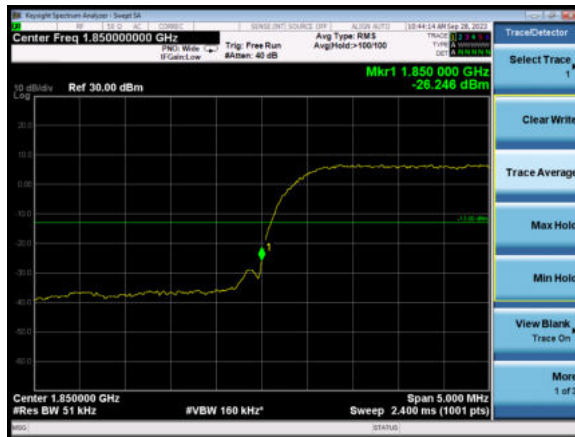


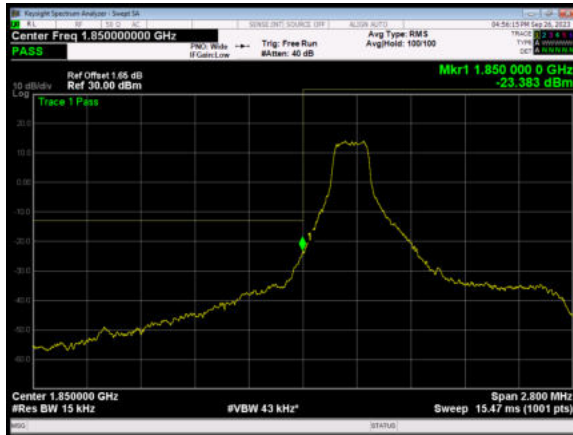
WCDMA Band II RMC CH-Low



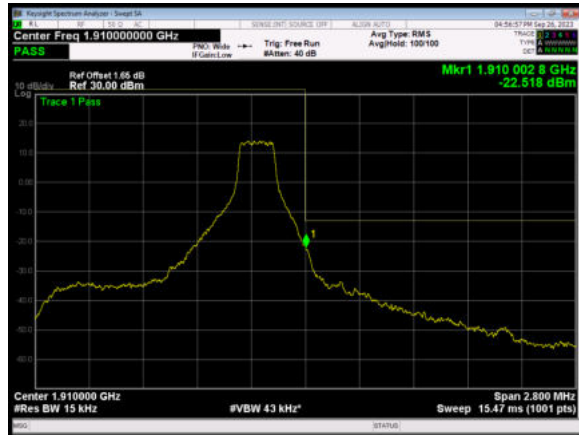
WCDMA Band II RMC CH-High



LTE Band 2 1.4MHz QPSK 1RB CH-Low



LTE Band 2 1.4MHz QPSK 1RB CH-High



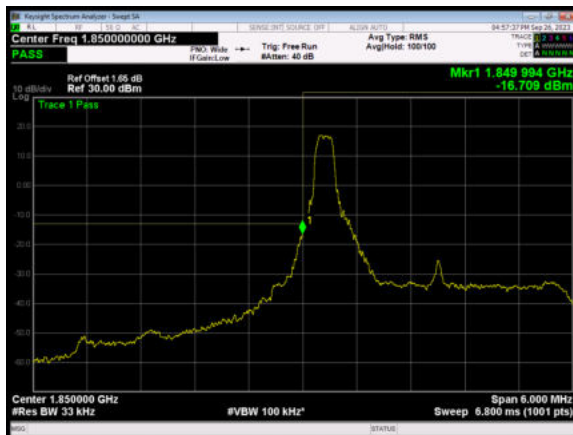
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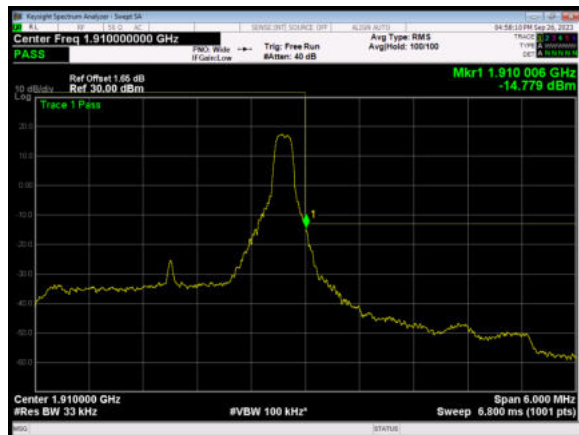
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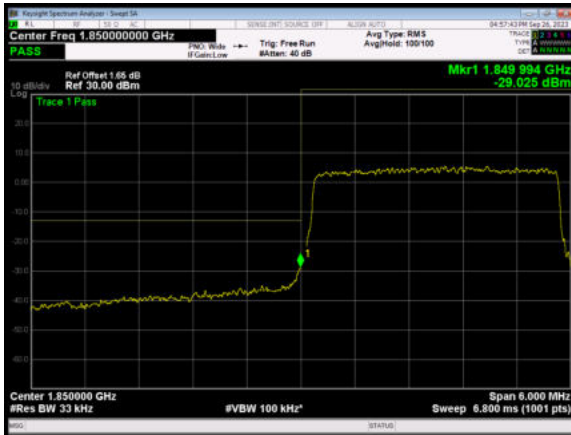
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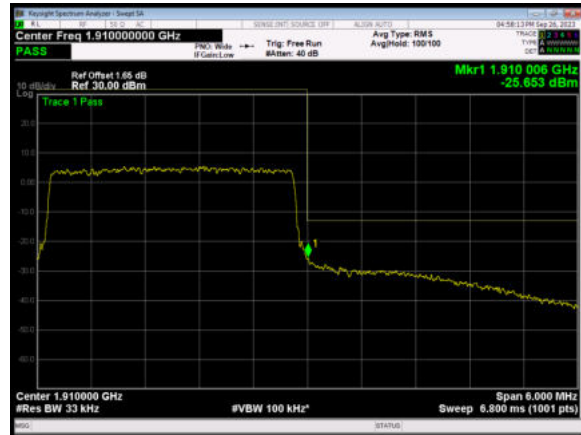
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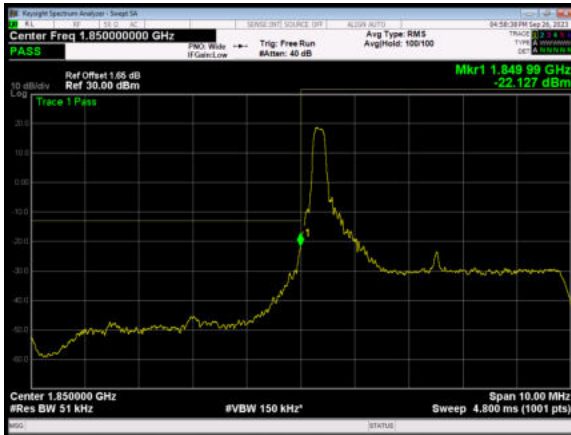
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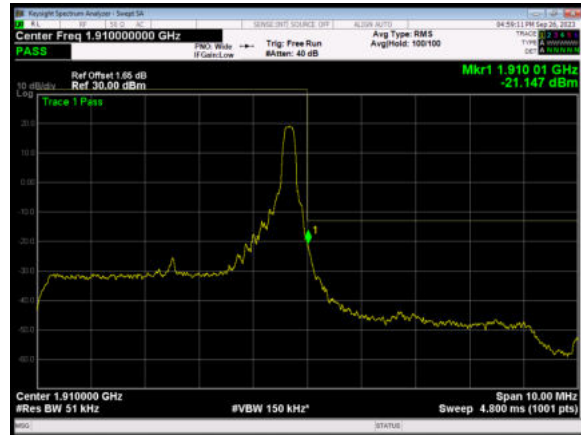
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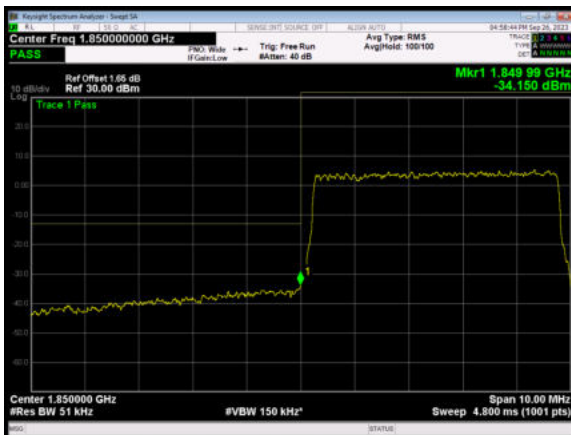
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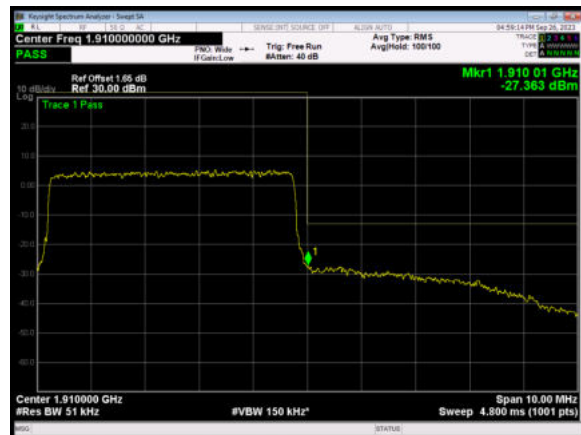
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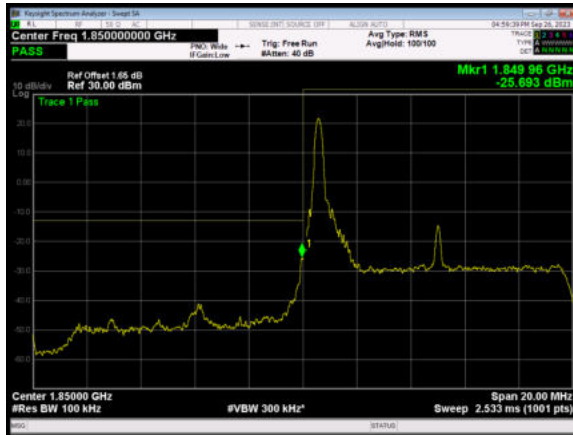
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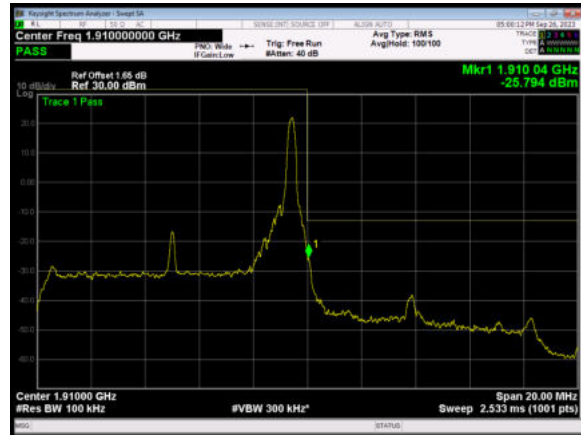
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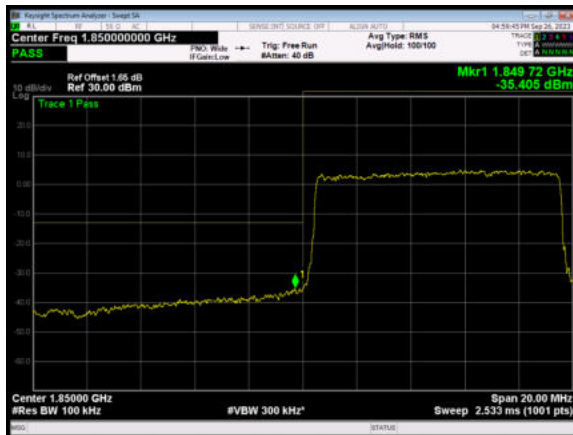
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LTE Band 2 10MHz QPSK 1RB CH-High



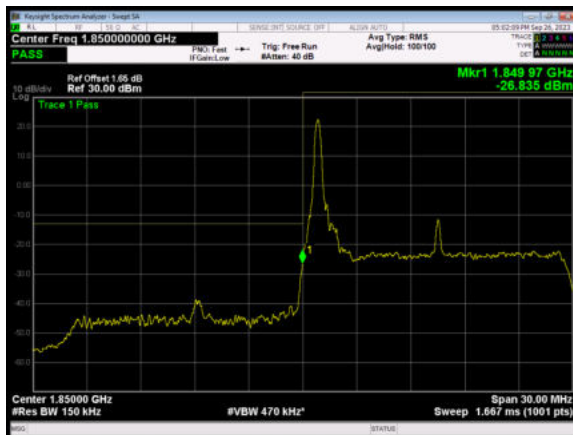
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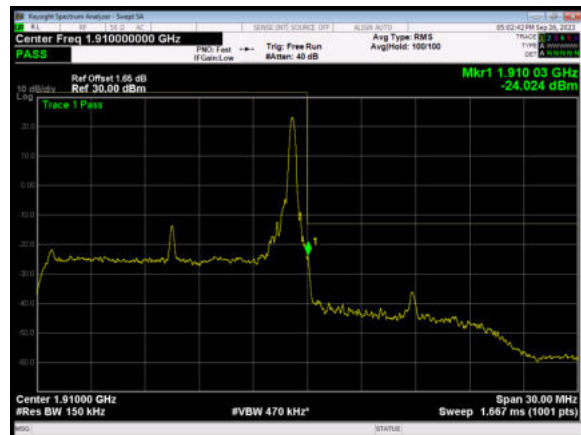
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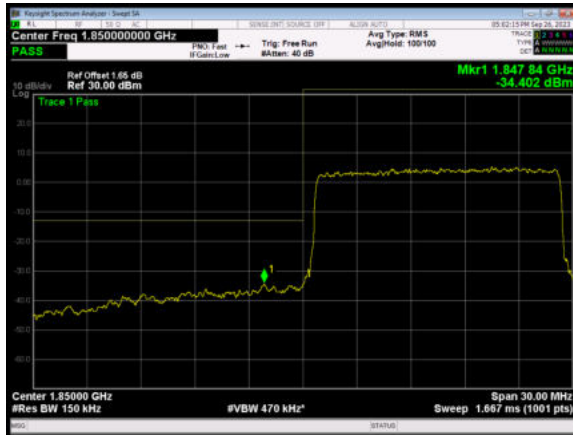
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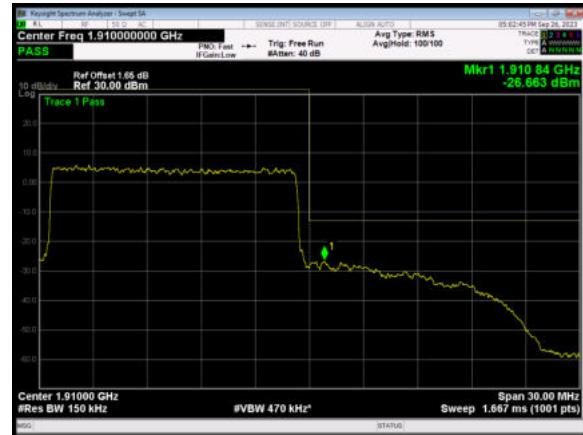
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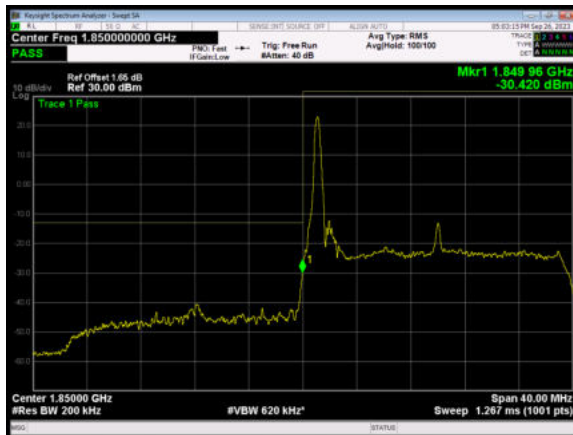
LTE Band 2 15MHz QPSK 100%RB CH-Low



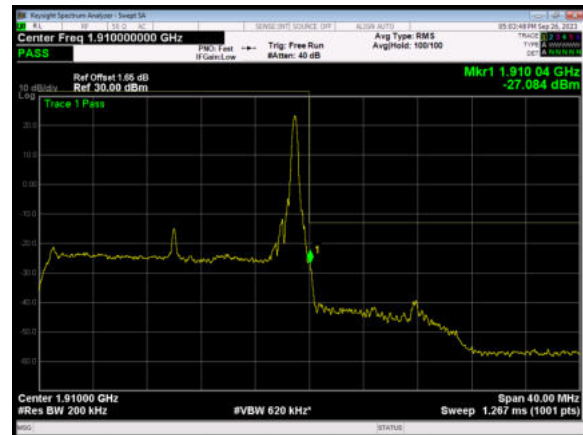
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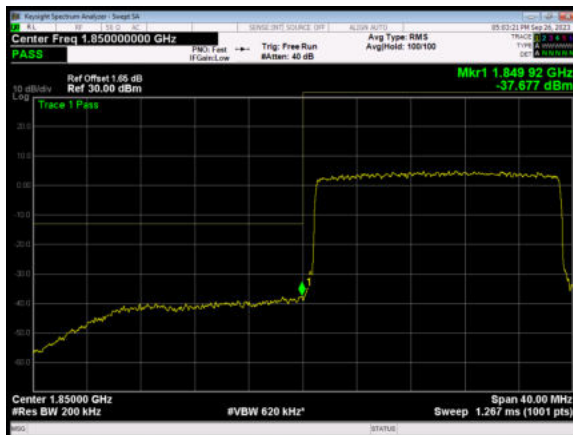
LTE Band 2 20MHz QPSK 1RB CH-Low



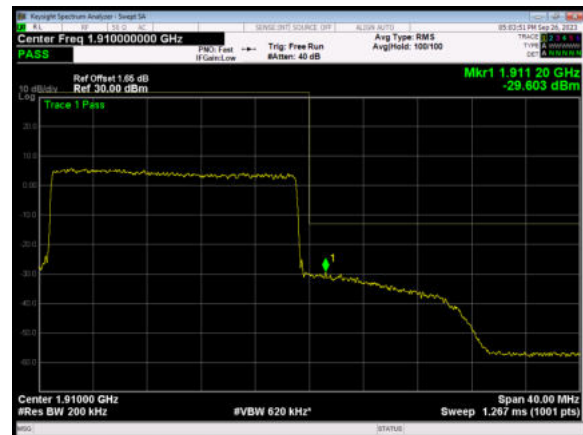
LTE Band 2 20MHz QPSK 1RB CH-High



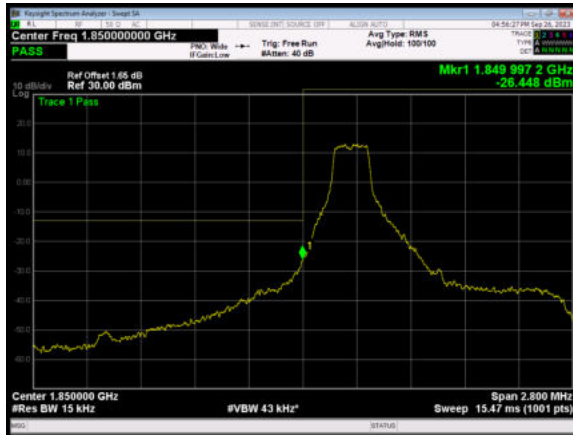
LTE Band 2 20MHz QPSK 100%RB CH-Low



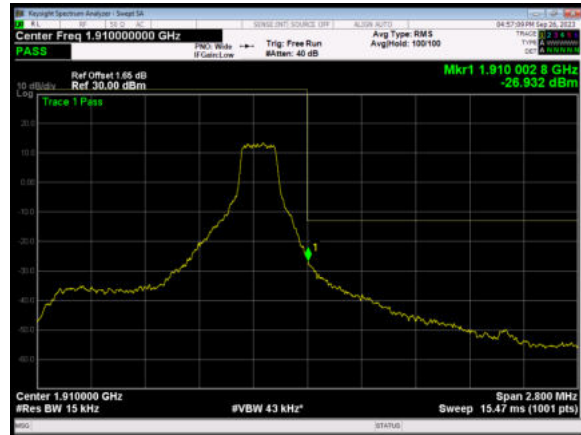
LTE Band 2 20MHz QPSK 100%RB CH-High



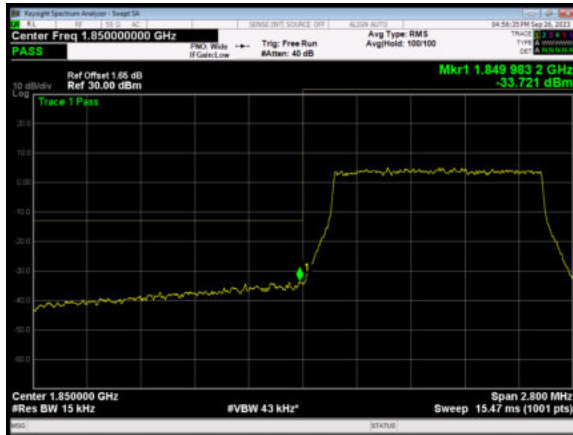
LTE Band 2 1.4MHz 16QAM 1RB CH-Low



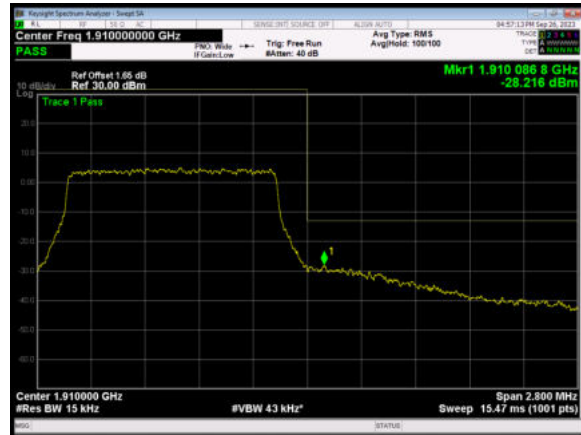
LTE Band 2 1.4MHz 16QAM 1RB CH-High



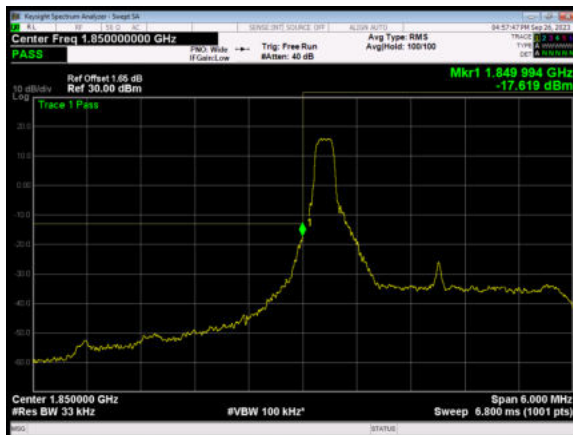
LTE Band 2 1.4MHz 16QAM 100%RB CH-Low



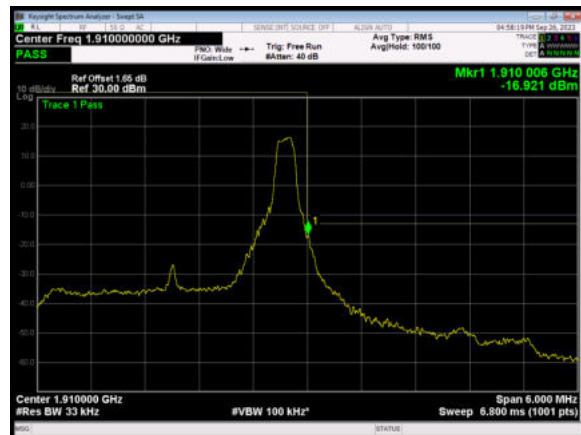
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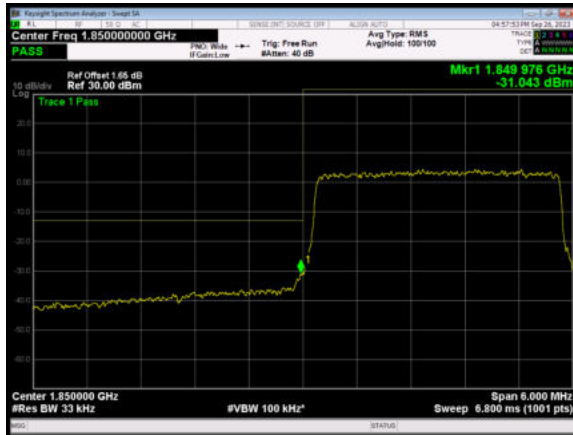
LTE Band 2 3MHz 16QAM 1RB CH-Low



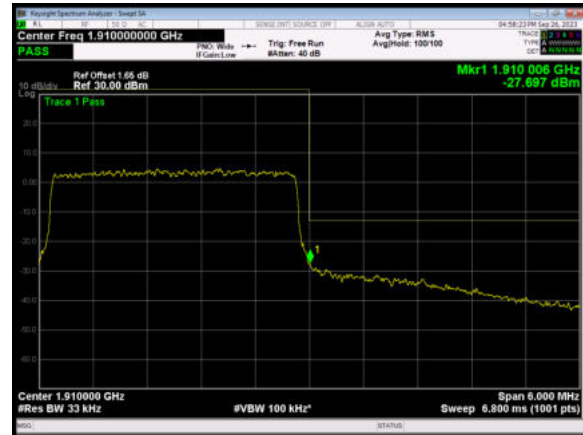
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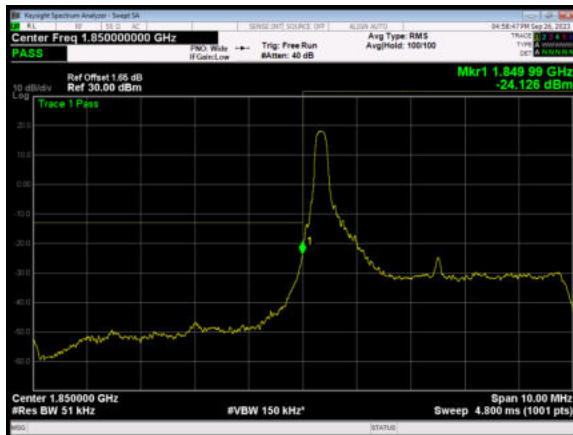
LTE Band 2 3MHz 16QAM 100%RB CH-Low



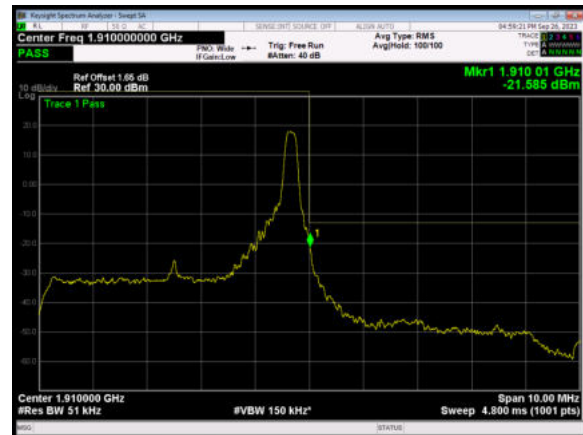
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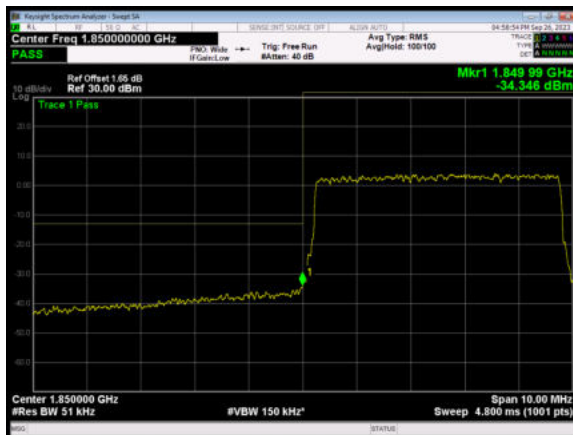
LTE Band 2 5MHz 16QAM 1RB CH-Low



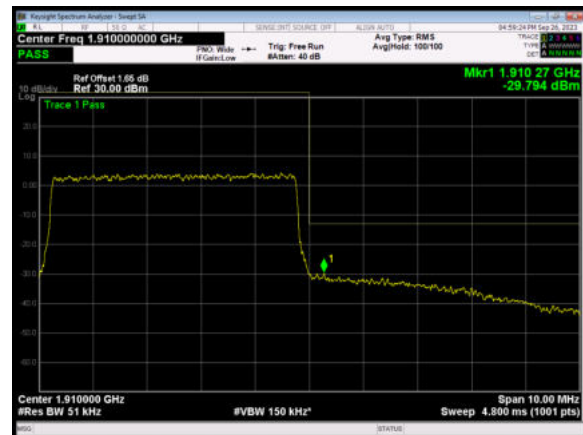
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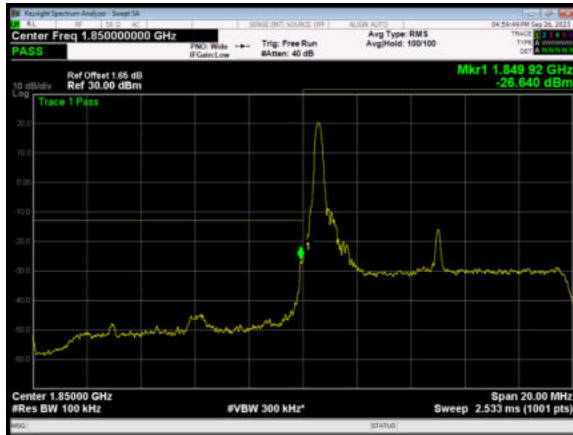
LTE Band 2 5MHz 16QAM 100%RB CH-Low



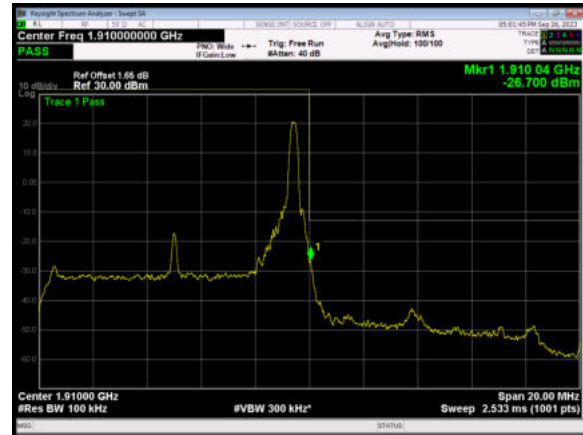
LTE Band 2 5MHz 16QAM 100%RB CH-High



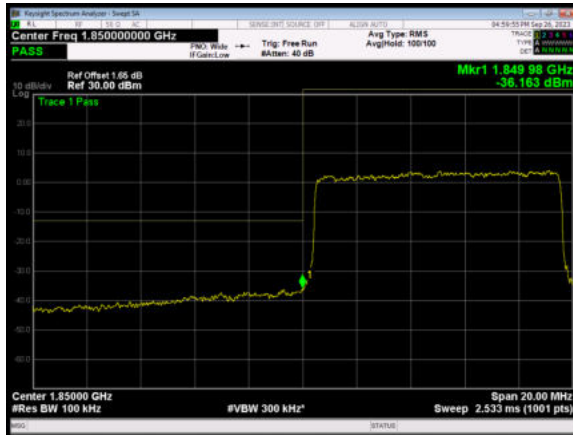
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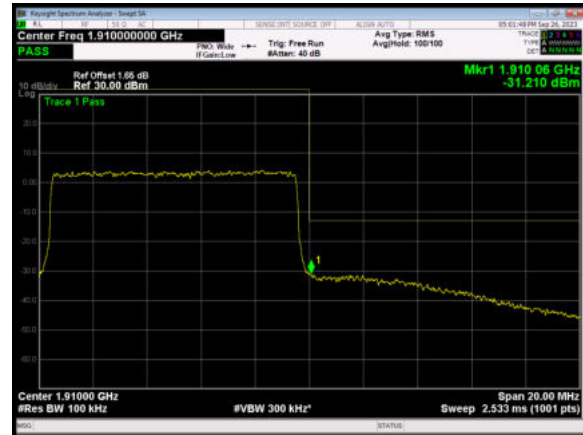
LTE Band 2 10MHz 16QAM 1RB CH-High



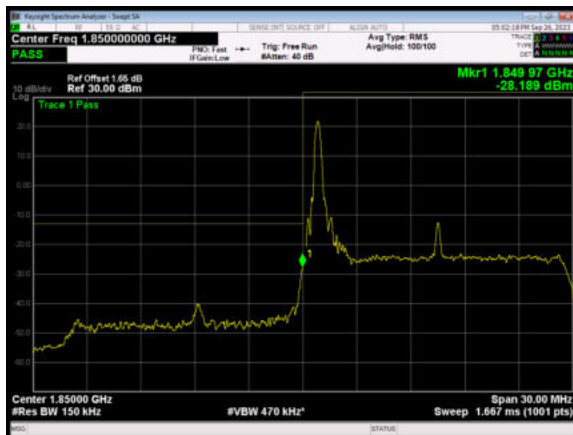
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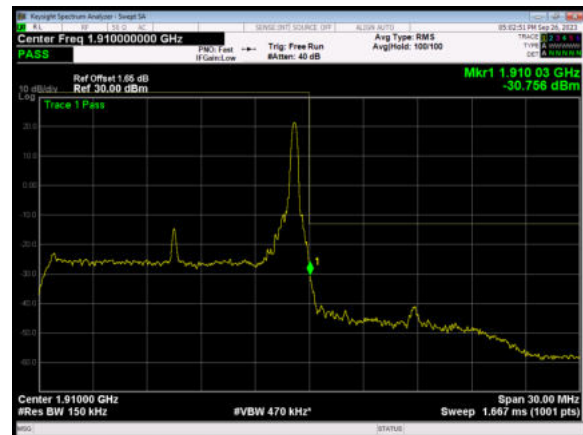
LTE Band 2 10MHz 16QAM 100%RB CH-High



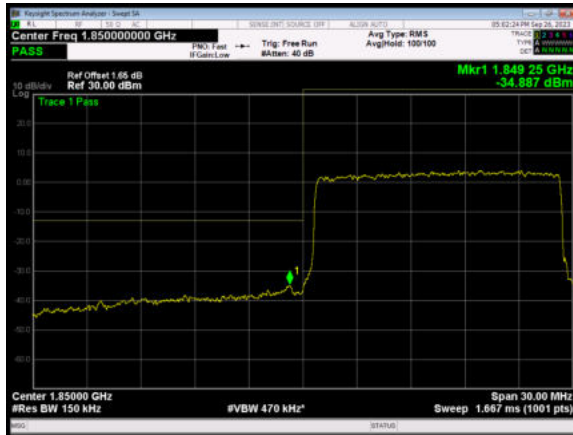
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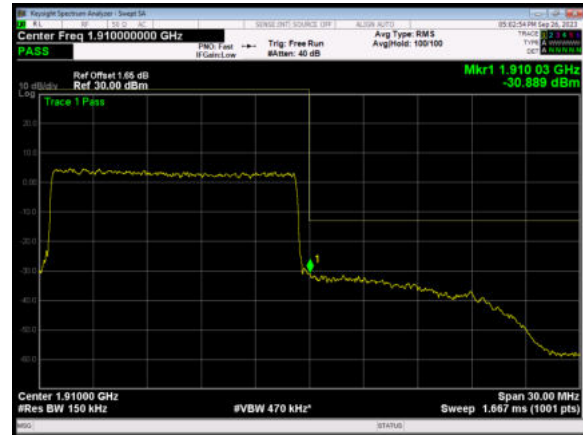
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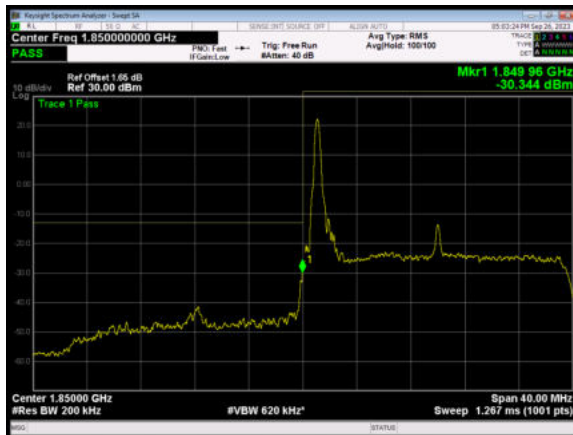
LTE Band 2 15MHz 16QAM 100%RB CH-Low



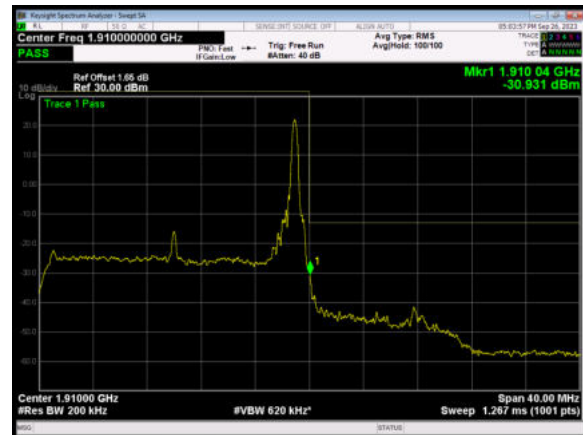
LTE Band 2 15MHz 16QAM 100%RB CH-High



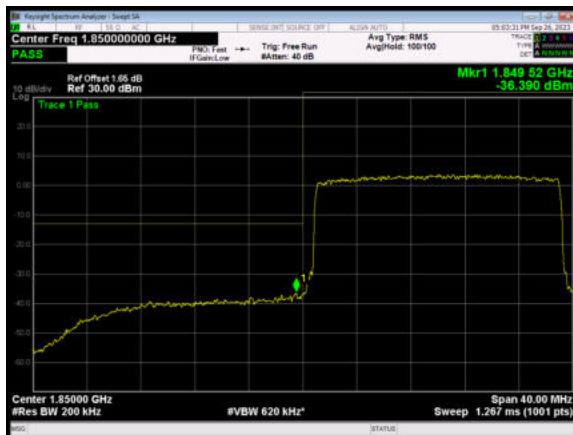
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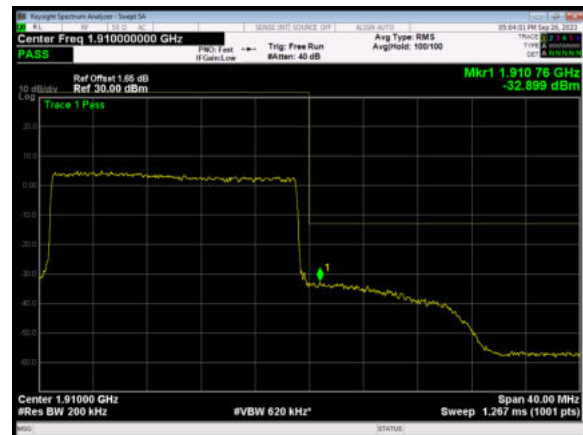
LTE Band 2 20MHz 16QAM 1RB CH-High



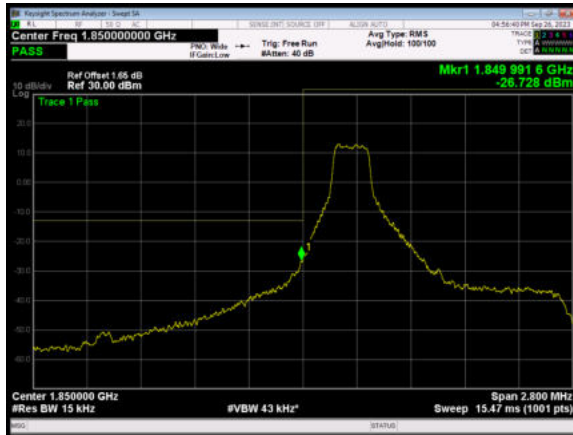
LTE Band 2 20MHz 16QAM 100%RB CH-Low



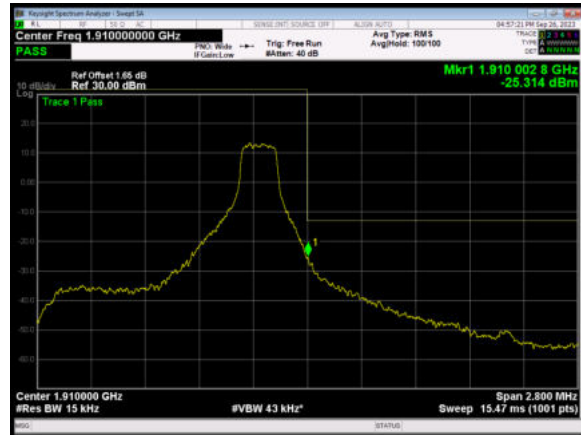
LTE Band 2 20MHz 16QAM 100%RB CH-High



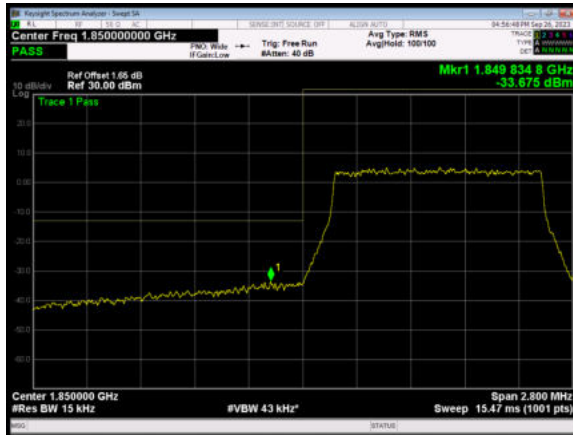
LTE Band 2 1.4MHz 64QAM 1RB CH-Low



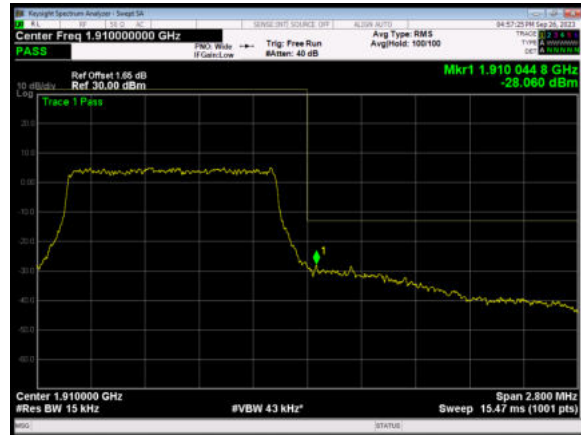
LTE Band 2 1.4MHz 64QAM 1RB CH-High



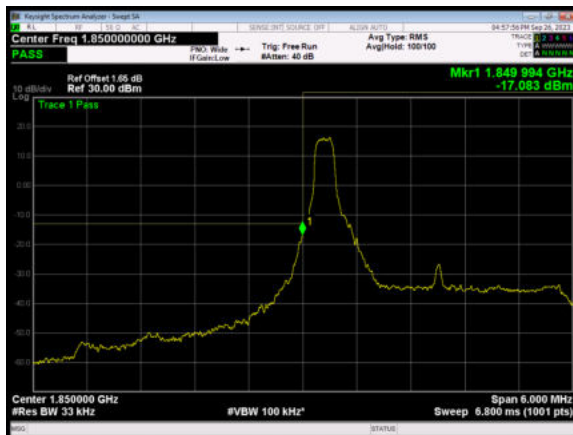
LTE Band 2 1.4MHz 64QAM 100%RB CH-Low



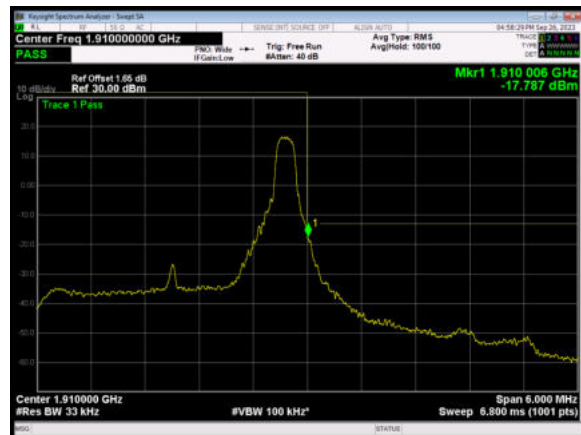
LTE Band 2 1.4MHz 64QAM 100%RB CH-High



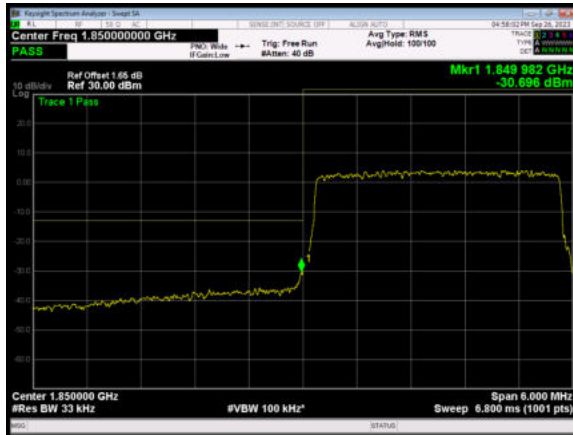
LTE Band 2 3MHz 64QAM 1RB CH-Low



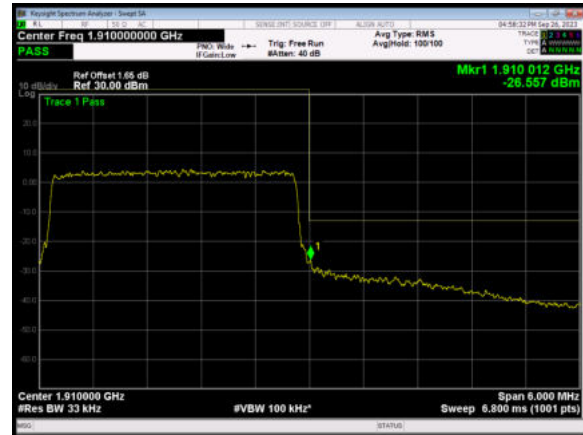
LTE Band 2 3MHz 64QAM 1RB CH-High



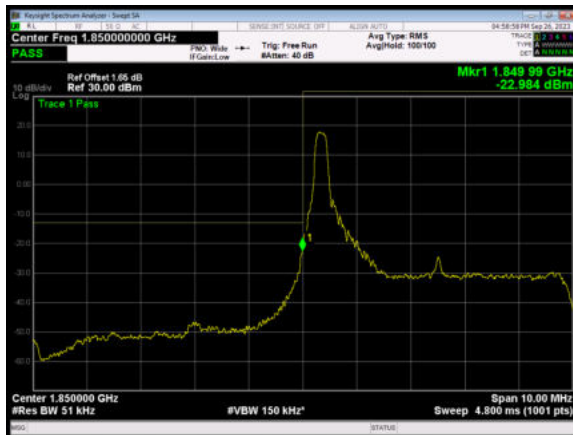
LTE Band 2 3MHz 64QAM 100%RB CH-Low



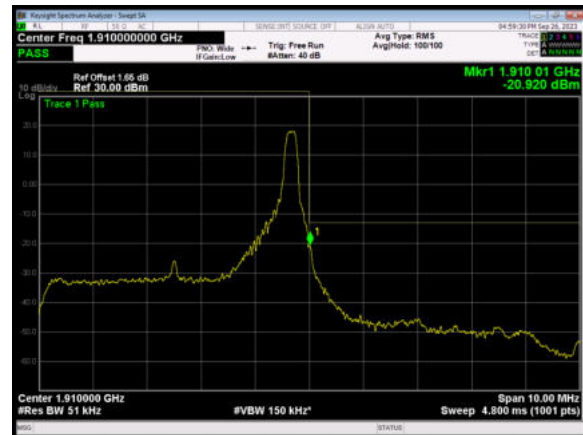
LTE Band 2 3MHz 64QAM 100%RB CH-High



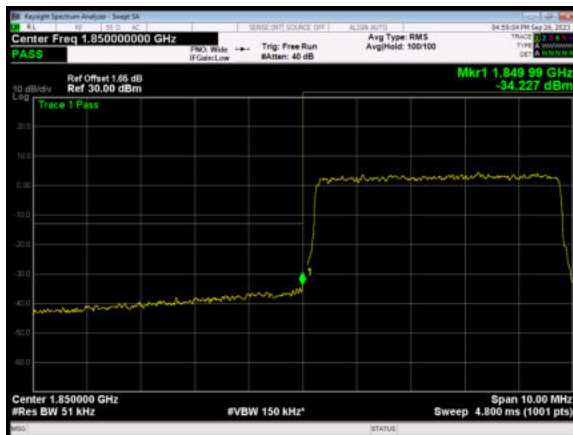
LTE Band 2 5MHz 64QAM 1RB CH-Low



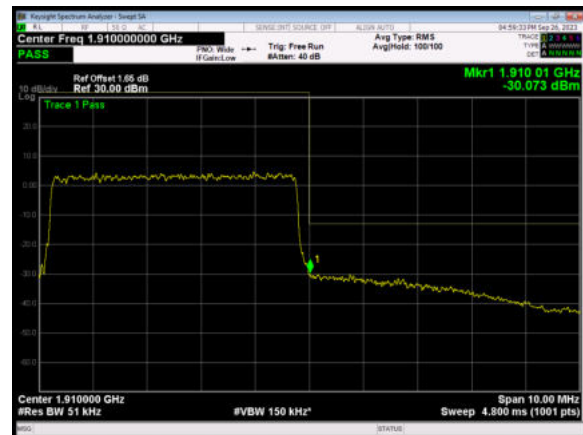
LTE Band 2 5MHz 64QAM 1RB CH-High



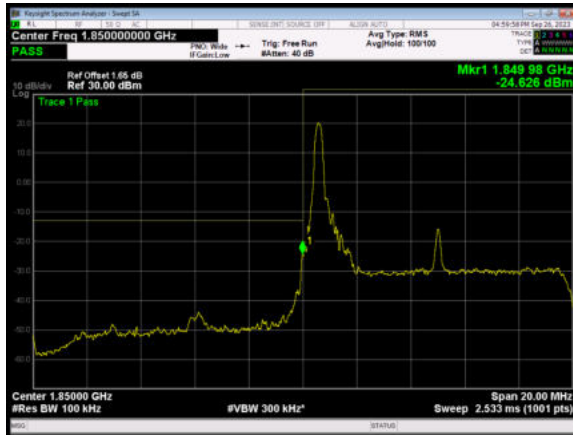
LTE Band 2 5MHz 64QAM 100%RB CH-Low



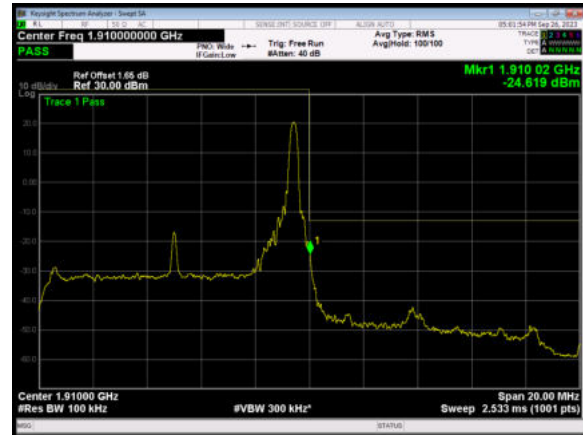
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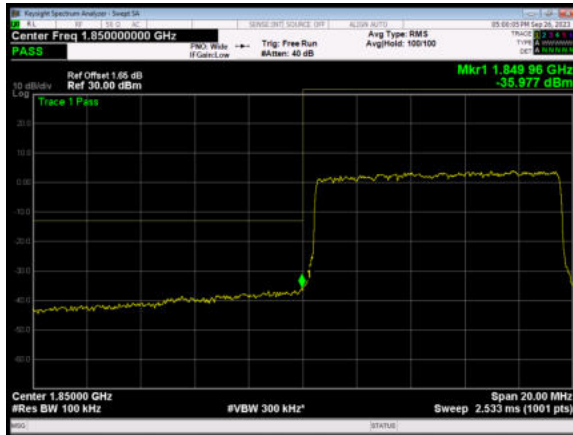
LTE Band 2 10MHz 64QAM 1RB CH-Low



LTE Band 2 10MHz 64QAM 1RB CH-High



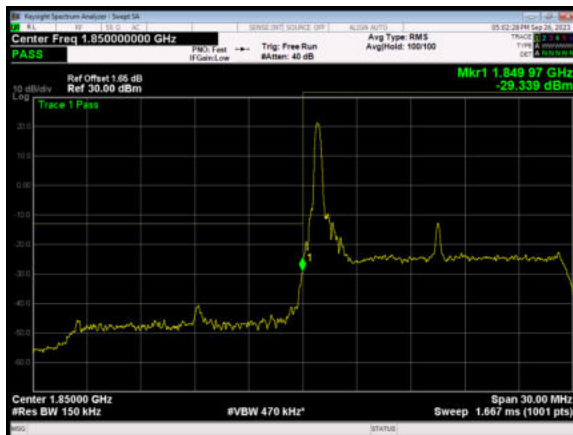
LTE Band 2 10MHz 64QAM 100%RB CH-Low



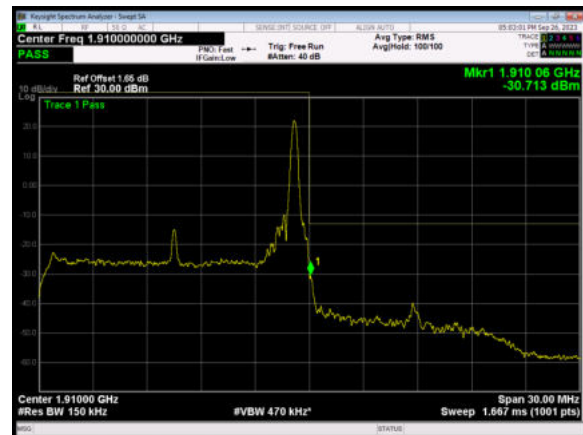
LTE Band 2 10MHz 64QAM 100%RB CH-High



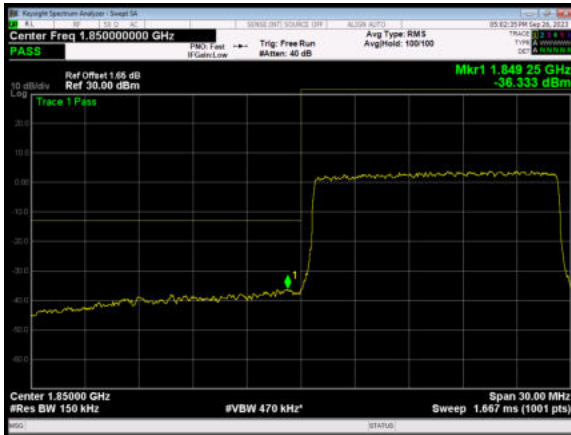
LTE Band 2 15MHz 64QAM 1RB CH-Low



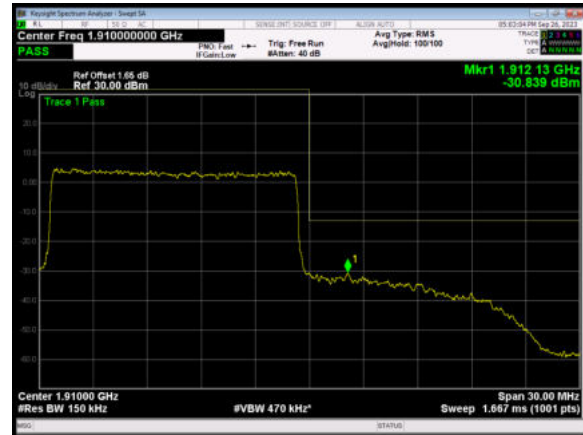
LTE Band 2 15MHz 64QAM 1RB CH-High



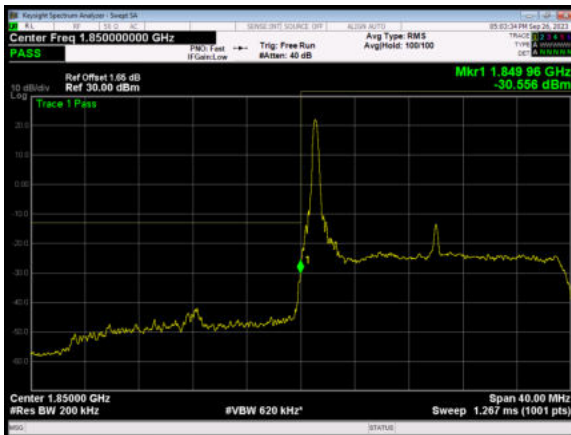
LTE Band 2 15MHz 64QAM 100%RB CH-Low



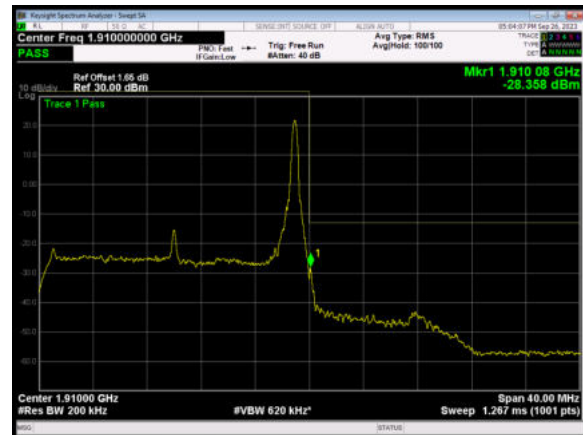
LTE Band 2 15MHz 64QAM 100%RB CH-High



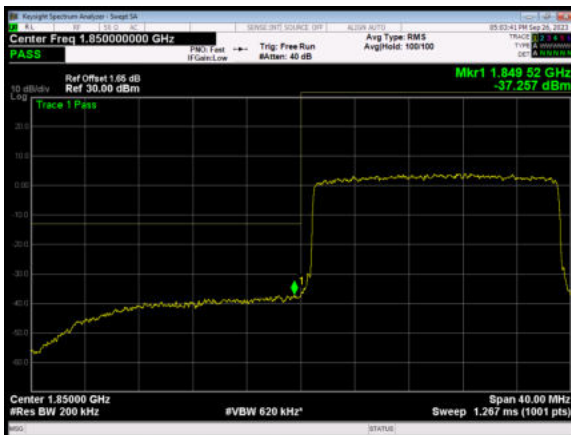
LTE Band 2 20MHz 64QAM 1RB CH-Low



LTE Band 2 20MHz 64QAM 1RB CH-High



LTE Band 2 20MHz 64QAM 100%RB CH-Low



LTE Band 2 20MHz 64QAM 100%RB CH-High



6.4. Peak-to-Average Power Ratio (PAPR)

Mode	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Limit(dB)	Conclusion
GSM 1900 (GMSK)	512	1850.2	29.93	27.34	2.59	≤13	PASS
	661	1880	30.00	27.40	2.60	≤13	PASS
	810	1909.8	30.28	27.17	3.11	≤13	PASS
GPRS 1900 (GMSK)	512	1850.2	29.91	27.32	2.59	≤13	PASS
	661	1880	30.00	27.41	2.59	≤13	PASS
	810	1909.8	30.31	27.32	2.99	≤13	PASS
EGPRS 1900 (8PSK)	512	1850.2	29.18	23.49	5.69	≤13	PASS
	661	1880	29.26	23.58	5.68	≤13	PASS
	810	1909.8	29.48	23.57	5.91	≤13	PASS
WCDMA Band II (RMC)	9262	1852.4	27.63	24.79	2.84	≤13	PASS
	9400	1880	27.73	24.85	2.88	≤13	PASS
	9538	1907.6	27.26	24.54	2.72	≤13	PASS

LTE Band 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	18607	1850.7	27.67	22.95	4.72	≤13	PASS
		18900	1880.0	27.99	23.33	4.66	≤13	PASS
		19193	1909.3	27.35	23.19	4.16	≤13	PASS
	3	18615	1851.5	27.67	22.83	4.84	≤13	PASS
		18900	1880	27.92	23.22	4.70	≤13	PASS
		19185	1908.5	27.32	23.04	4.28	≤13	PASS
	5	18625	1852.5	27.87	22.91	4.96	≤13	PASS
		18900	1880	28.09	23.32	4.77	≤13	PASS
		19175	1907.5	27.44	23.10	4.34	≤13	PASS
	10	18650	1855	27.81	22.81	5.00	≤13	PASS
		18900	1880	28.08	23.31	4.77	≤13	PASS
		19150	1905	27.58	23.11	4.47	≤13	PASS
	15	18675	1857.5	28.13	22.85	5.28	≤13	PASS
		18900	1880	28.51	23.38	5.13	≤13	PASS
		19125	1902.5	28.14	23.26	4.88	≤13	PASS
	20	18700	1860	27.83	22.66	5.17	≤13	PASS
		18900	1880	28.37	23.27	5.10	≤13	PASS

		19100	1900	28.19	23.18	5.01	≤13	PASS
16QAM	1.4	18607	1850.7	27.56	21.99	5.57	≤13	PASS
		18900	1880.0	27.91	22.36	5.55	≤13	PASS
		19193	1909.3	27.18	22.12	5.06	≤13	PASS
	3	18615	1851.5	27.61	21.81	5.80	≤13	PASS
		18900	1880	27.84	22.20	5.64	≤13	PASS
		19185	1908.5	27.21	22.00	5.21	≤13	PASS
	5	18625	1852.5	27.64	21.95	5.69	≤13	PASS
		18900	1880	27.98	22.35	5.63	≤13	PASS
		19175	1907.5	27.33	22.14	5.19	≤13	PASS
	10	18650	1855	27.63	21.80	5.83	≤13	PASS
		18900	1880	27.94	22.32	5.62	≤13	PASS
		19150	1905	27.43	22.09	5.34	≤13	PASS
	15	18675	1857.5	27.74	21.79	5.95	≤13	PASS
		18900	1880	28.18	22.35	5.83	≤13	PASS
		19125	1902.5	27.78	22.14	5.64	≤13	PASS
	20	18700	1860	27.64	21.67	5.97	≤13	PASS
		18900	1880	28.16	22.30	5.86	≤13	PASS
		19100	1900	27.91	22.19	5.72	≤13	PASS
64QAM	1.4	18607	1850.7	27.57	22.00	5.57	≤13	PASS
		18900	1880.0	27.94	22.36	5.58	≤13	PASS
		19193	1909.3	27.20	22.12	5.08	≤13	PASS
	3	18615	1851.5	27.52	21.81	5.71	≤13	PASS
		18900	1880	27.80	22.19	5.61	≤13	PASS
		19185	1908.5	27.23	22.02	5.21	≤13	PASS
	5	18625	1852.5	27.65	21.96	5.69	≤13	PASS
		18900	1880	27.96	22.39	5.57	≤13	PASS
		19175	1907.5	27.32	22.11	5.21	≤13	PASS
	10	18650	1855	27.60	21.79	5.81	≤13	PASS
		18900	1880	27.90	22.34	5.56	≤13	PASS
		19150	1905	27.46	22.14	5.32	≤13	PASS
	15	18675	1857.5	27.73	21.80	5.93	≤13	PASS
		18900	1880	28.17	22.35	5.82	≤13	PASS
		19125	1902.5	27.80	22.15	5.65	≤13	PASS
	20	18700	1860	27.62	21.67	5.95	≤13	PASS
		18900	1880	28.19	22.33	5.86	≤13	PASS
		19100	1900	27.92	22.17	5.75	≤13	PASS

6.5. Frequency Stability

GSM 1900						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	GMSK	8PSK	GMSK	8PSK	
Normal (25℃)	Normal	5.08	16.16	0.00270	0.00860	PASS
Extreme (50℃)		5.05	1.23	0.00269	0.00065	PASS
Extreme (40℃)		12.88	3.25	0.00685	0.00173	PASS
Extreme (30℃)		1.56	5.11	0.00083	0.00272	PASS
Extreme (20℃)		17.45	5.91	0.00928	0.00314	PASS
Extreme (10℃)		16.77	2.83	0.00892	0.00150	PASS
Extreme (0℃)		9.34	10.90	0.00497	0.00580	PASS
Extreme (-10℃)		5.47	8.20	0.00291	0.00436	PASS
Extreme (-20℃)		12.35	11.32	0.00657	0.00602	PASS
Extreme (-30℃)		7.68	1.32	0.00409	0.00070	PASS
25℃	LV	17.47	2.31	0.00929	0.00123	PASS
	HV	3.72	12.18	0.00198	0.00648	PASS

WCDMA Band II						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25℃)	Normal	10.30	7.59	0.00548	0.00404	PASS
Extreme (50℃)		7.03	5.03	0.00374	0.00267	PASS
Extreme (40℃)		4.56	11.14	0.00242	0.00593	PASS
Extreme (30℃)		10.40	7.33	0.00553	0.00390	PASS
Extreme (20℃)		17.56	17.83	0.00934	0.00948	PASS
Extreme (10℃)		16.24	1.35	0.00864	0.00072	PASS
Extreme (0℃)		10.20	8.20	0.00543	0.00436	PASS
Extreme (-10℃)		12.00	14.76	0.00639	0.00785	PASS
Extreme (-20℃)		10.99	3.76	0.00584	0.00200	PASS
Extreme (-30℃)		13.23	5.81	0.00704	0.00309	PASS
25℃	LV	17.34	11.80	0.00922	0.00628	PASS
	HV	9.03	12.13	0.00480	0.00645	PASS

LTE Band 2								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.56	1.54	2.83	0.00561	0.00082	0.00151	PASS
Extreme (50℃)		8.36	6.05	6.38	0.00445	0.00322	0.00339	PASS
Extreme (40℃)		8.94	12.87	16.74	0.00476	0.00685	0.00890	PASS
Extreme (30℃)		14.34	6.31	5.58	0.00763	0.00335	0.00297	PASS
Extreme (20℃)		1.57	11.73	2.06	0.00083	0.00624	0.00110	PASS
Extreme (10℃)		13.66	16.77	11.34	0.00727	0.00892	0.00603	PASS
Extreme (0℃)		7.48	7.91	1.89	0.00398	0.00421	0.00100	PASS
Extreme (-10℃)		6.19	4.37	13.32	0.00329	0.00233	0.00708	PASS
Extreme (-20℃)		1.37	15.87	14.10	0.00073	0.00844	0.00750	PASS
Extreme (-30℃)		17.80	2.35	16.44	0.00947	0.00125	0.00875	PASS
25℃	LV	10.17	7.44	2.39	0.00541	0.00396	0.00127	PASS
	HV	17.01	2.61	3.12	0.00905	0.00139	0.00166	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.02	8.41	12.44	0.00161	0.00447	0.00661	PASS
Extreme (50℃)		13.94	10.05	3.30	0.00742	0.00534	0.00176	PASS
Extreme (40℃)		2.56	14.86	9.71	0.00136	0.00790	0.00516	PASS
Extreme (30℃)		1.77	6.61	13.48	0.00094	0.00351	0.00717	PASS
Extreme (20℃)		5.44	11.17	14.38	0.00289	0.00594	0.00765	PASS
Extreme (10℃)		1.72	12.24	10.04	0.00092	0.00651	0.00534	PASS
Extreme (0℃)		5.78	15.82	15.84	0.00307	0.00842	0.00843	PASS
Extreme (-10℃)		16.63	16.30	4.70	0.00885	0.00867	0.00250	PASS
Extreme (-20℃)		16.47	17.23	1.52	0.00876	0.00916	0.00081	PASS
Extreme (-30℃)		2.51	12.45	9.49	0.00134	0.00662	0.00505	PASS
25℃	LV	6.38	2.32	6.70	0.00339	0.00124	0.00356	PASS
	HV	14.81	1.40	10.16	0.00788	0.00075	0.00540	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	9.24	6.52	2.91	0.00491	0.00347	0.00155	PASS
Extreme (50℃)		9.03	7.09	10.81	0.00480	0.00377	0.00575	PASS
Extreme (40℃)		4.20	7.61	2.79	0.00223	0.00405	0.00148	PASS
Extreme (30℃)		4.11	8.96	9.32	0.00219	0.00476	0.00496	PASS
Extreme (20℃)		11.58	13.68	1.53	0.00616	0.00727	0.00081	PASS

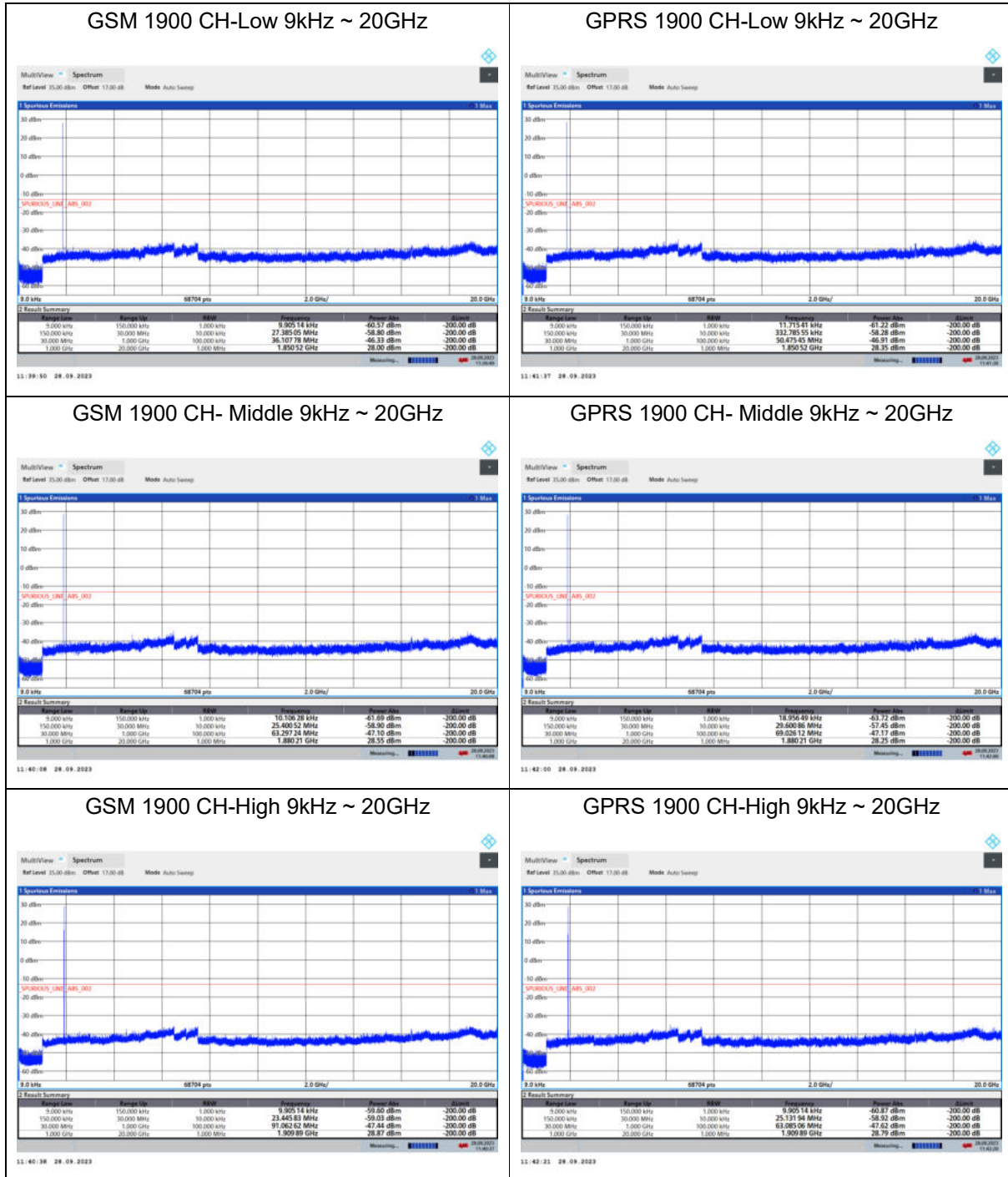
Extreme (10℃)		4.75	15.69	16.54	0.00253	0.00834	0.00880	PASS
Extreme (0℃)		10.51	3.51	18.00	0.00559	0.00186	0.00957	PASS
Extreme (-10℃)		14.56	12.03	2.30	0.00775	0.00640	0.00123	PASS
Extreme (-20℃)		11.98	1.77	13.39	0.00637	0.00094	0.00712	PASS
Extreme (-30℃)		1.59	11.85	3.92	0.00084	0.00630	0.00209	PASS
25℃	LV	2.65	12.27	16.57	0.00141	0.00653	0.00881	PASS
	HV	4.12	13.05	5.74	0.00219	0.00694	0.00305	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.90	15.85	8.60	0.00952	0.00843	0.00457	PASS
Extreme (50℃)		2.44	5.30	8.14	0.00130	0.00282	0.00433	PASS
Extreme (40℃)		9.71	13.46	4.79	0.00516	0.00716	0.00255	PASS
Extreme (30℃)		12.22	17.80	5.17	0.00650	0.00947	0.00275	PASS
Extreme (20℃)		9.73	4.34	10.83	0.00517	0.00231	0.00576	PASS
Extreme (10℃)		10.40	13.02	5.12	0.00553	0.00693	0.00272	PASS
Extreme (0℃)		3.77	4.75	9.90	0.00200	0.00253	0.00527	PASS
Extreme (-10℃)		10.28	12.42	16.86	0.00547	0.00661	0.00897	PASS
Extreme (-20℃)		5.13	1.25	8.75	0.00273	0.00066	0.00465	PASS
Extreme (-30℃)		3.99	3.90	12.34	0.00212	0.00207	0.00656	PASS
25℃	LV	3.52	12.59	9.71	0.00187	0.00670	0.00517	PASS
	HV	6.67	10.07	10.25	0.00355	0.00536	0.00545	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.04	3.34	6.98	0.00268	0.00178	0.00371	PASS
Extreme (50℃)		5.95	12.86	5.21	0.00317	0.00684	0.00277	PASS
Extreme (40℃)		11.11	1.26	4.66	0.00591	0.00067	0.00248	PASS
Extreme (30℃)		9.73	12.74	9.29	0.00518	0.00678	0.00494	PASS
Extreme (20℃)		12.86	2.33	11.86	0.00684	0.00124	0.00631	PASS
Extreme (10℃)		3.96	4.46	11.77	0.00211	0.00237	0.00626	PASS
Extreme (0℃)		4.75	1.86	12.10	0.00252	0.00099	0.00644	PASS
Extreme (-10℃)		15.12	5.67	16.19	0.00804	0.00302	0.00861	PASS
Extreme (-20℃)		16.53	7.32	15.14	0.00879	0.00389	0.00805	PASS
Extreme (-30℃)		1.89	17.50	8.66	0.00101	0.00931	0.00460	PASS
25℃	LV	3.30	13.18	6.95	0.00176	0.00701	0.00370	PASS
	HV	4.05	6.34	11.90	0.00216	0.00337	0.00633	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							

Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	14.38	13.21	7.16	0.00765	0.00703	0.00381	PASS
Extreme (50℃)		16.52	17.32	13.66	0.00878	0.00921	0.00726	PASS
Extreme (40℃)		2.34	1.26	5.94	0.00125	0.00067	0.00316	PASS
Extreme (30℃)		3.72	7.67	8.20	0.00198	0.00408	0.00436	PASS
Extreme (20℃)		13.59	9.05	8.05	0.00723	0.00481	0.00428	PASS
Extreme (10℃)		7.23	11.91	16.69	0.00385	0.00634	0.00888	PASS
Extreme (0℃)		15.81	9.43	10.30	0.00841	0.00501	0.00548	PASS
Extreme (-10℃)		5.78	2.81	12.06	0.00307	0.00149	0.00642	PASS
Extreme (-20℃)		8.55	1.99	12.03	0.00455	0.00106	0.00640	PASS
Extreme (-30℃)		13.44	11.23	1.40	0.00715	0.00597	0.00074	PASS
25℃	LV	10.09	16.27	9.93	0.00536	0.00865	0.00528	PASS
	HV	1.25	5.56	1.32	0.00066	0.00296	0.00070	PASS

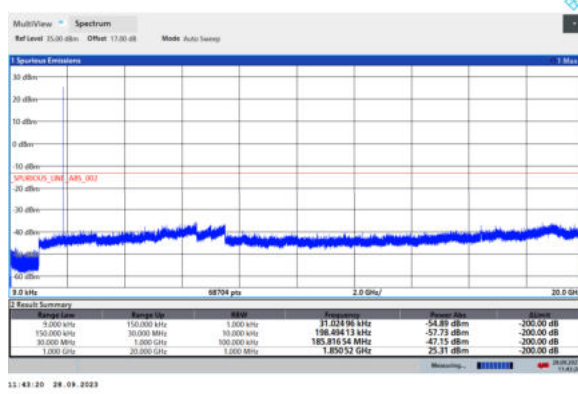
6.6. Spurious Emissions at Antenna Terminals

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.

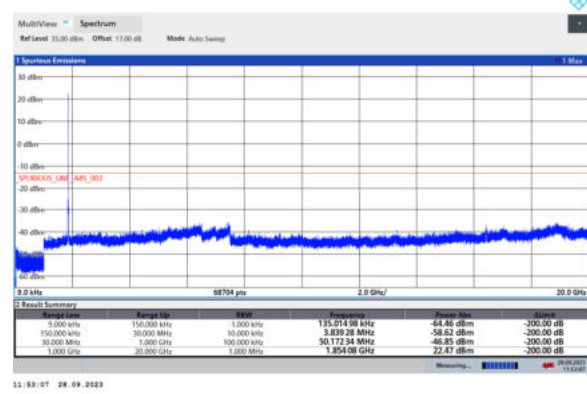
The signal beyond the limit is carrier.



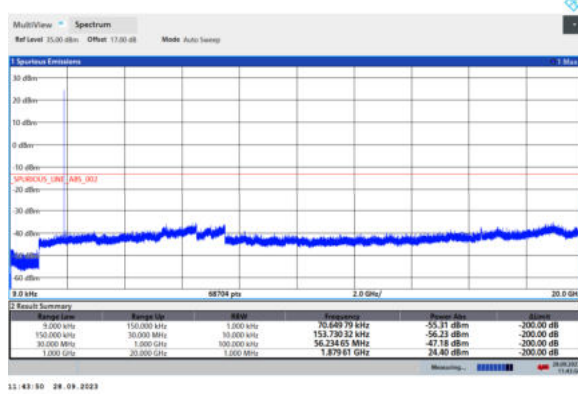
EGPRS 1900 CH-Low 9kHz ~ 20GHz



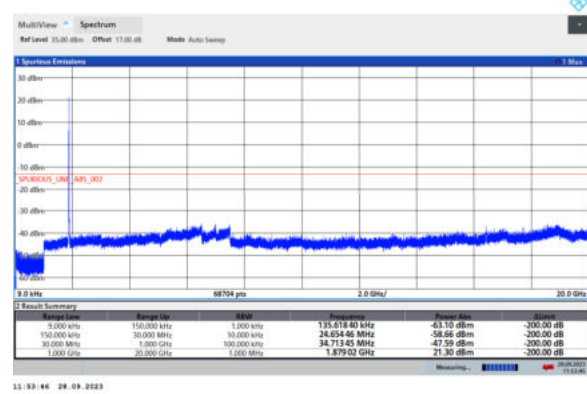
WCDMA BAND II CH-Low 9kHz ~ 20GHz



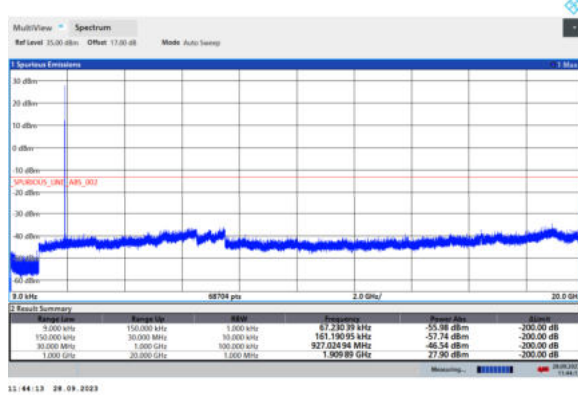
EGPRS 1900 CH- Middle 9kHz ~ 20GHz



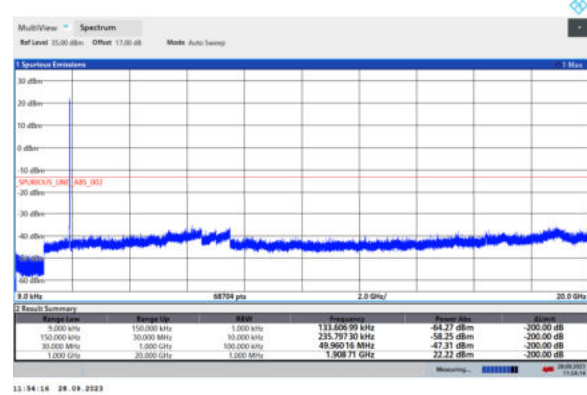
WCDMA BAND II CH- Middle 9kHz ~ 20GHz



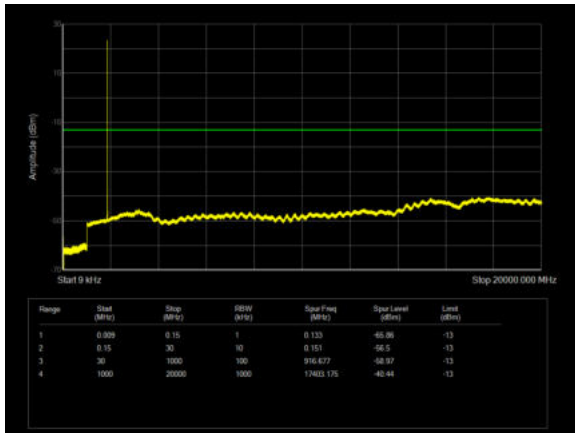
EGPRS 1900 CH-High 9kHz ~ 20GHz



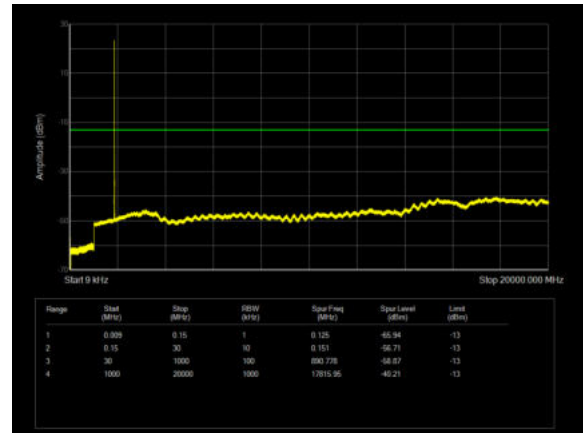
WCDMA BAND II CH-High 9kHz ~ 20GHz



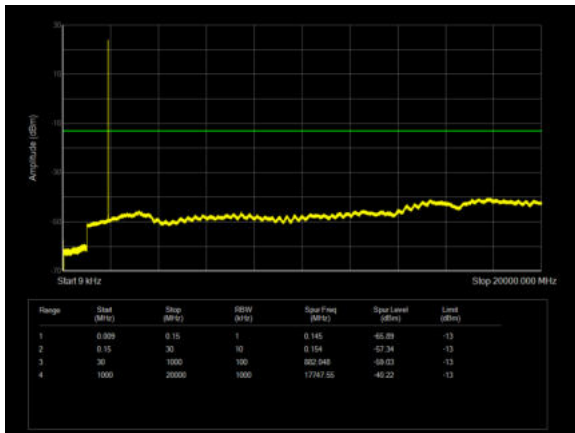
LTE Band 2 1.4MHz CH-Low 9kHz~20GHz



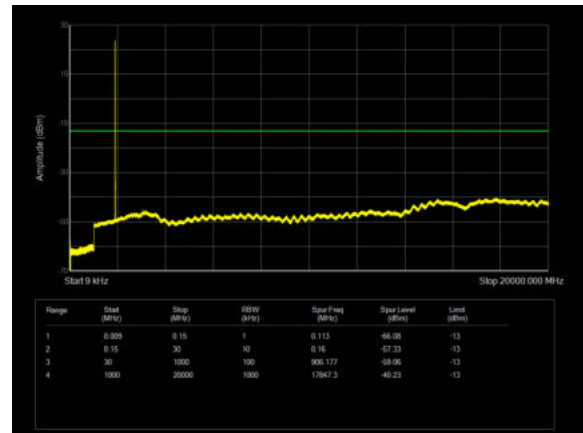
LTE Band 2 3MHz CH-Low 9kHz~20GHz



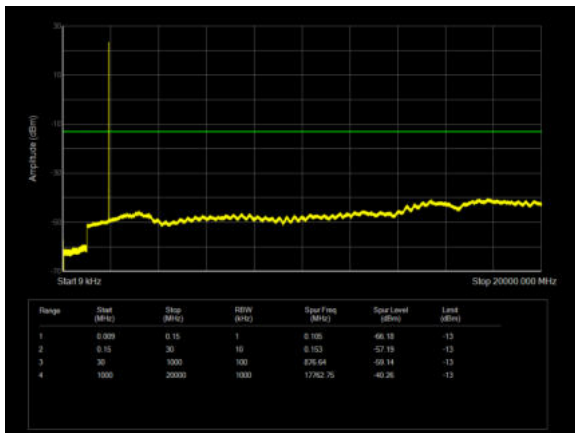
LTE Band 2 1.4MHz CH-Middle 9kHz~20GHz



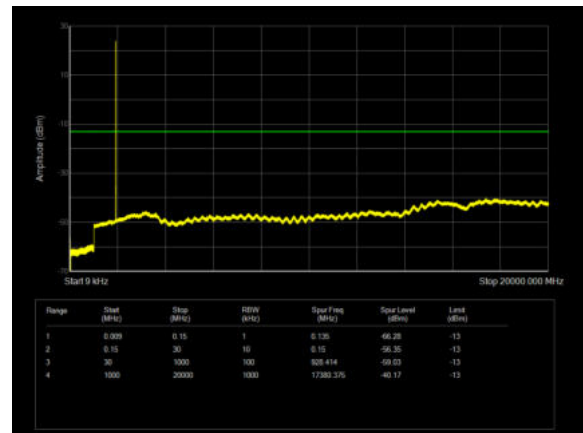
LTE Band 2 3MHz CH-Middle 9kHz~20GHz



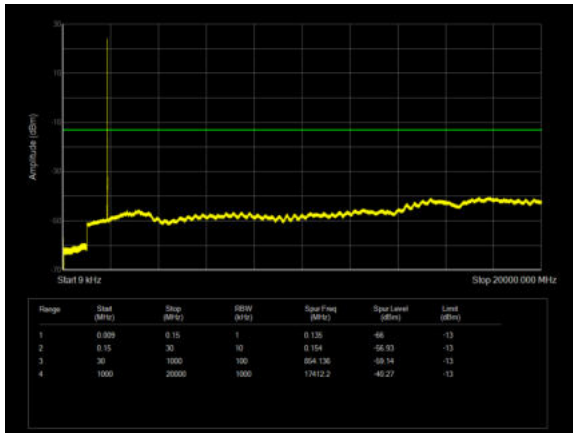
LTE Band 2 1.4MHz CH-High 9kHz~20GHz



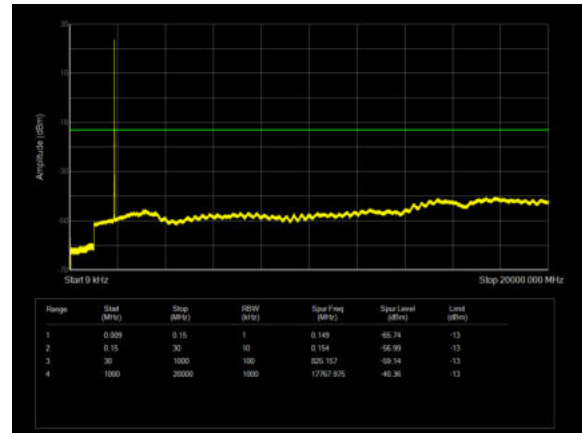
LTE Band 2 3MHz CH-High 9kHz~20GHz



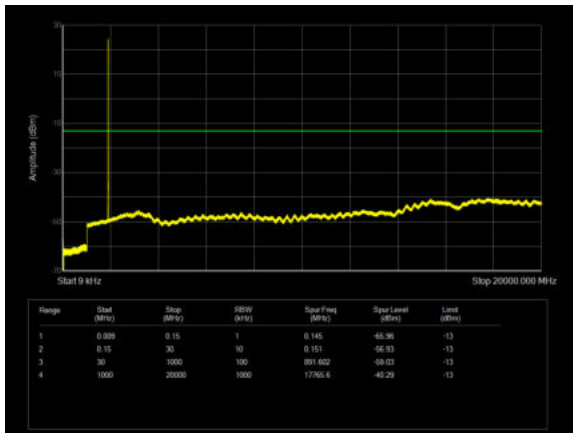
LTE Band 2 5MHz CH-Low 9kHz~20GHz



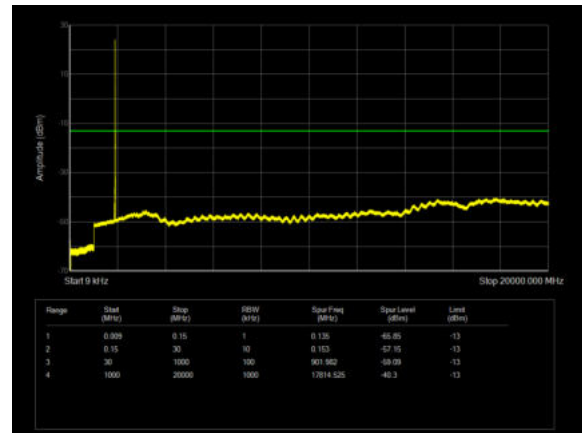
LTE Band 2 10MHz CH-Low 9kHz~20GHz



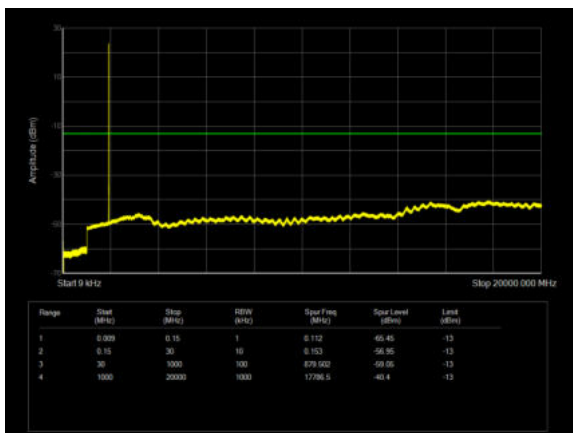
LTE Band 2 5MHz CH-Middle 9kHz~20GHz



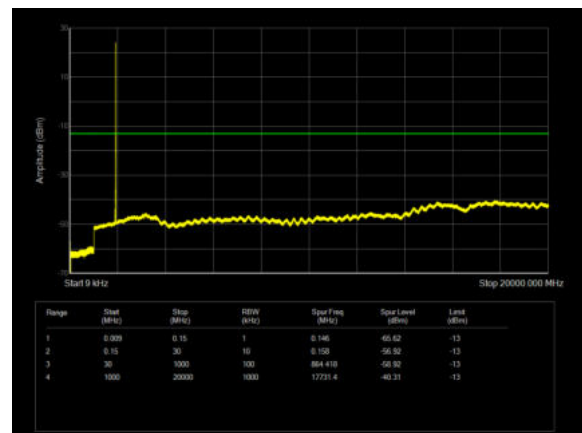
LTE Band 2 10MHz CH-Middle 9kHz~20GHz



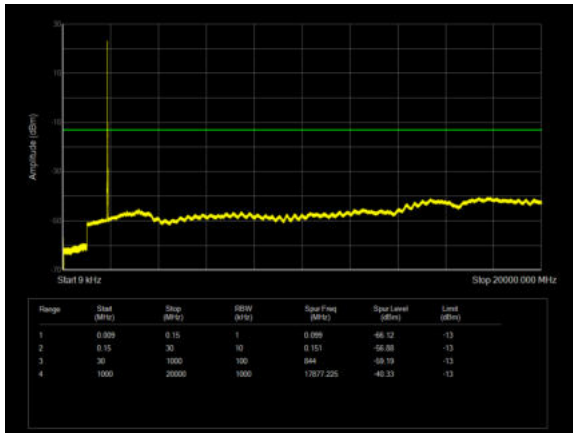
LTE Band 2 5MHz CH-High 9kHz~20GHz



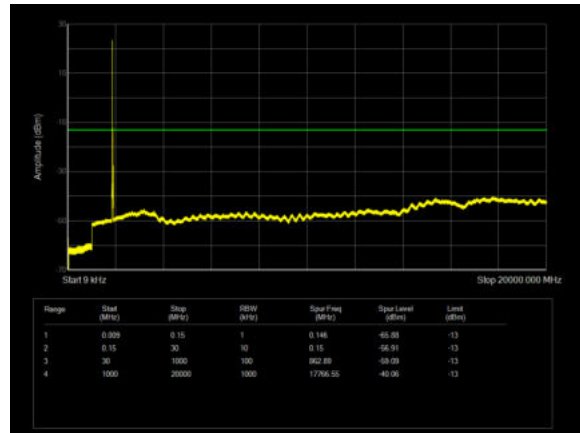
LTE Band 2 10MHz CH-High 9kHz~20GHz



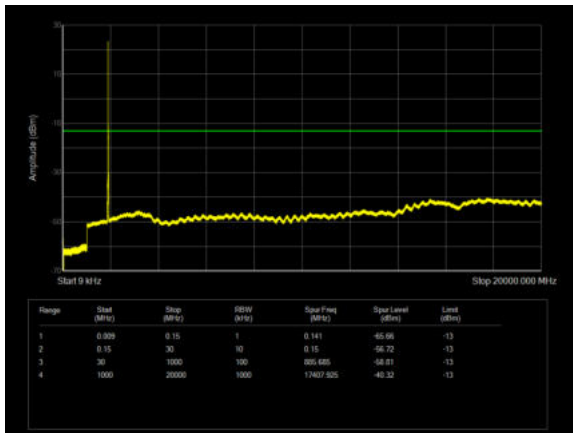
LTE Band 2 15MHz CH-Low 9kHz~20GHz



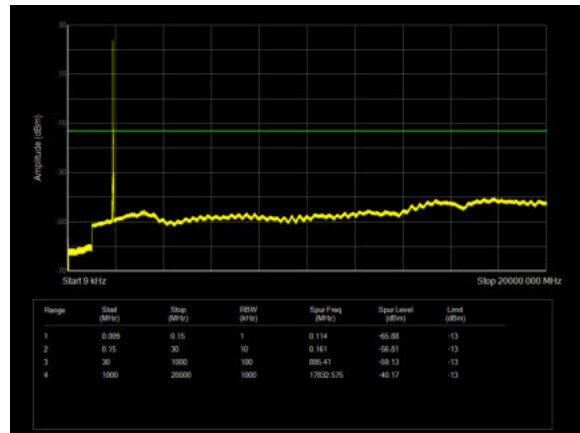
LTE Band 2 20MHz CH-Low 9kHz~20GHz



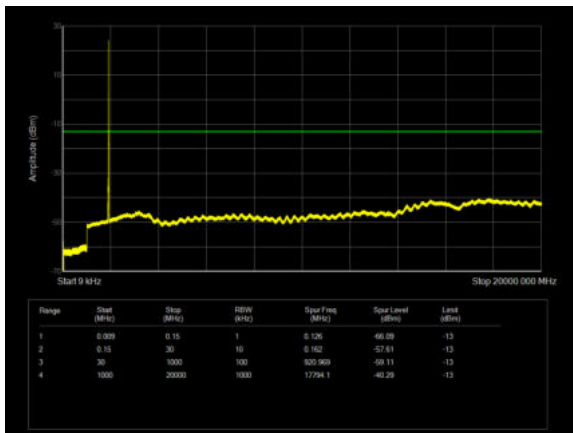
LTE Band 2 15MHz CH-Middle 9kHz~20GHz



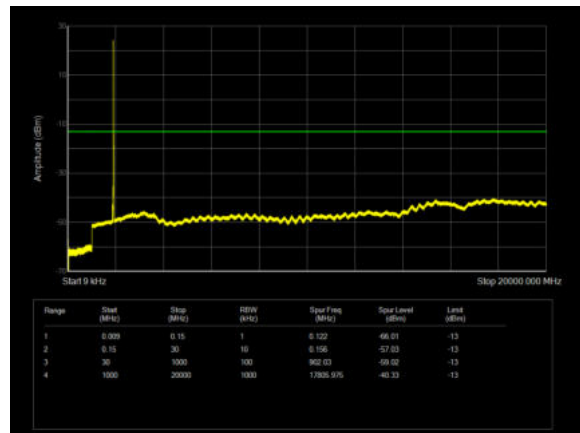
LTE Band 2 20MHz CH-Middle 9kHz~20GHz



LTE Band 2 15MHz CH-High 9kHz~20GHz



LTE Band 2 20MHz CH-High 9kHz~20GHz



6.7.Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Low Antenna

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-61.89	2.60	12.50	Vertical	-51.99	-13.00	38.99	274
3	5640.00	-46.68	3.30	12.50	Vertical	-37.48	-13.00	24.48	169
4	7520.00	-58.17	4.20	12.20	Vertical	-50.17	-13.00	37.17	32
5	9400.00	-55.27	4.30	11.10	Vertical	-48.47	-13.00	35.47	7
6	11280.00	-49.31	5.90	11.90	Vertical	-43.31	-13.00	30.31	22
7	13160.00	-51.99	5.70	14.00	Vertical	-43.69	-13.00	30.69	25
8	15040.00	-51.74	5.80	13.10	Vertical	-44.44	-13.00	31.44	114
9	16920.00	-52.75	6.10	14.60	Vertical	-44.25	-13.00	31.25	21
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-66.69	2.60	12.50	Vertical	-56.79	-13.00	43.79	123
3	5640.00	-63.11	3.30	12.50	Vertical	-53.91	-13.00	40.91	38
4	7520.00	-58.93	4.20	12.20	Vertical	-50.93	-13.00	37.93	14
5	9400.00	-55.46	4.30	11.10	Vertical	-48.66	-13.00	35.66	28
6	11280.00	-50.40	5.90	11.90	Vertical	-44.40	-13.00	31.40	111
7	13160.00	-52.43	5.70	14.00	Vertical	-44.13	-13.00	31.13	24
8	15040.00	-52.48	5.80	13.10	Vertical	-45.18	-13.00	32.18	33
9	16920.00	-52.15	6.10	14.60	Vertical	-43.65	-13.00	30.65	14
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-67.26	2.60	12.50	Horizontal	-57.36	-13.00	44.36	102
3	5638.88	-51.50	3.30	12.50	Horizontal	-42.30	-13.00	29.30	88
4	7520.00	-57.92	4.20	12.20	Horizontal	-49.92	-13.00	36.92	90
5	9400.00	-54.70	4.30	11.10	Horizontal	-47.90	-13.00	34.90	135
6	11280.00	-50.23	5.90	11.90	Horizontal	-44.23	-13.00	31.23	71
7	13160.00	-50.95	5.70	14.00	Horizontal	-42.65	-13.00	29.65	118
8	15040.00	-52.32	5.80	13.10	Horizontal	-45.02	-13.00	32.02	204
9	16920.00	-52.43	6.10	14.60	Horizontal	-43.93	-13.00	30.93	163
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.63	-67.26	2.60	12.50	Horizontal	-57.36	-13.00	44.36	45
3	5633.63	-51.97	3.30	12.50	Horizontal	-42.77	-13.00	29.77	62
4	7510.00	-58.19	4.20	12.20	Horizontal	-50.19	-13.00	37.19	17
5	9387.50	-54.76	4.30	11.10	Horizontal	-47.96	-13.00	34.96	101
6	11265.00	-49.95	5.90	11.90	Horizontal	-43.95	-13.00	30.95	95
7	13142.00	-50.81	5.70	14.00	Horizontal	-42.51	-13.00	29.51	237
8	15020.00	-52.85	5.80	13.10	Horizontal	-45.55	-13.00	32.55	90
9	16897.50	-51.28	6.10	14.60	Horizontal	-42.78	-13.00	29.78	180
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.13	-67.80	2.60	12.50	Horizontal	-57.90	-13.00	44.90	15
3	5613.38	-49.90	3.30	12.50	Horizontal	-40.70	-13.00	27.70	38
4	7484.63	-58.62	4.20	12.20	Horizontal	-50.62	-13.00	37.62	104
5	9355.33	-55.51	4.30	11.10	Horizontal	-48.71	-13.00	35.71	90
6	11226.39	-50.36	5.90	11.90	Horizontal	-44.36	-13.00	31.36	201
7	13097.46	-52.06	5.70	14.00	Horizontal	-43.76	-13.00	30.76	135
8	14968.52	-51.94	5.80	13.10	Horizontal	-44.64	-13.00	31.64	116
9	16938.59	-53.34	6.10	14.60	Horizontal	-44.84	-13.00	31.84	88
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

Upper Antenna

GSM 1900 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-64.71	2.60	12.50	Horizontal	-54.81	-13.00	41.81	135
3	5640.00	-59.45	3.30	12.50	Horizontal	-50.25	-13.00	37.25	285
4	7520.00	-55.08	4.20	12.20	Horizontal	-47.08	-13.00	34.08	76
5	9400.00	-55.40	4.30	11.10	Horizontal	-48.60	-13.00	35.60	72
6	11280.00	-49.54	5.90	11.90	Horizontal	-43.54	-13.00	30.54	12
7	13160.00	-51.39	5.70	14.00	Horizontal	-43.09	-13.00	30.09	33
8	15040.00	-51.03	5.80	13.10	Horizontal	-43.73	-13.00	30.73	25
9	16920.00	-50.67	6.10	14.60	Horizontal	-42.17	-13.00	29.17	138
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

WCDMA Band II CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3760.00	-66.74	2.60	12.50	Horizontal	-56.84	-13.00	43.84	38
3	5640.00	-63.46	3.30	12.50	Horizontal	-54.26	-13.00	41.26	11
4	7520.00	-58.01	4.20	12.20	Horizontal	-50.01	-13.00	37.01	86
5	9400.00	-54.50	4.30	11.10	Horizontal	-47.70	-13.00	34.70	14
6	11280.00	-49.58	5.90	11.90	Horizontal	-43.58	-13.00	30.58	38
7	13160.00	-51.65	5.70	14.00	Horizontal	-43.35	-13.00	30.35	14
8	15040.00	-51.32	5.80	13.10	Horizontal	-44.02	-13.00	31.02	11
9	16920.00	-52.46	6.10	14.60	Horizontal	-43.96	-13.00	30.96	225
10	18800.00	-	-	-	-	-	-	-	-

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

LTE Band 2 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3759.00	-67.40	2.60	12.50	Vertical	-57.50	-13.00	44.50	102
3	5638.88	-57.64	3.30	12.50	Vertical	-48.44	-13.00	35.44	88
4	7520.00	-57.80	4.20	12.20	Vertical	-49.80	-13.00	36.80	90
5	9400.00	-54.97	4.30	11.10	Vertical	-48.17	-13.00	35.17	135
6	11280.00	-50.20	5.90	11.90	Vertical	-44.20	-13.00	31.20	71
7	13160.00	-51.49	5.70	14.00	Vertical	-43.19	-13.00	30.19	118
8	15040.00	-52.62	5.80	13.10	Vertical	-45.32	-13.00	32.32	204
9	16920.00	-52.39	6.10	14.60	Vertical	-43.89	-13.00	30.89	163
10	18800.00	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 2 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3755.63	-67.50	2.60	12.50	Vertical	-57.60	-13.00	44.60	45
3	5633.63	-59.58	3.30	12.50	Vertical	-50.38	-13.00	37.38	62
4	7510.00	-57.75	4.20	12.20	Vertical	-49.75	-13.00	36.75	17
5	9387.50	-55.37	4.30	11.10	Vertical	-48.57	-13.00	35.57	101
6	11265.00	-50.98	5.90	11.90	Vertical	-44.98	-13.00	31.98	95
7	13142.00	-51.37	5.70	14.00	Vertical	-43.07	-13.00	30.07	237
8	15020.00	-52.03	5.80	13.10	Vertical	-44.73	-13.00	31.73	90
9	16897.50	-52.58	6.10	14.60	Vertical	-44.08	-13.00	31.08	180
10	18800.00	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

LTE Band 2 20MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3742.13	-67.72	2.60	12.50	Vertical	-57.82	-13.00	44.82	15
3	5613.38	-56.85	3.30	12.50	Vertical	-47.65	-13.00	34.65	38
4	7484.63	-57.69	4.20	12.20	Vertical	-49.69	-13.00	36.69	104
5	9355.33	-55.39	4.30	11.10	Vertical	-48.59	-13.00	35.59	90
6	11226.39	-49.91	5.90	11.90	Vertical	-43.91	-13.00	30.91	201
7	13097.46	-52.28	5.70	14.00	Vertical	-43.98	-13.00	30.98	135
8	14968.52	-51.16	5.80	13.10	Vertical	-43.86	-13.00	30.86	116
9	16938.59	-52.20	6.10	14.60	Vertical	-43.70	-13.00	30.70	88
10	18800.00	-	-	-	-	-	-	-	-
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.									

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	WEISS	VT 4002	58226119450010	2023-05-12	2024-05-11
Wireless Communication Tester	R&S	CMW500	150415	2023-05-12	2024-05-11
Spectrum Analyzer	Keysight	N9020A	MY50510203	2023-05-12	2024-05-11
Wireless Communication Tester	Agilent	E5515C	MY48367192	2023-05-12	2024-05-11
DC Power Supply	UNI-T	UTP1310+	C220795889	2023-05-12	2024-05-11
Spectrum Analyzer	R&S	FSV3030	101411	2022-12-10	2023-12-09
Radiated Spurious Emission					
Signal Analyzer	R&S	FSV30	100815	2022-12-10	2023-12-09
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	391	2022-09-29	2025-09-28
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

ANNEX C: Product Change Description

The Product Change Description are submitted separately.

***** END OF REPORT *****