

Test Report		Report No.: 2024080801				
Extreme (0℃)		8.26	0.00439	2.47	0.00132	PASS
Extreme (-10℃)		13.81	0.00734	6.13	0.00326	PASS
Extreme (-20℃)		4.01	0.00214	3.88	0.00207	PASS
Extreme (-30℃)		8.72	0.00464	5.11	0.00272	PASS
25℃	LV	6.90	0.00367	3.85	0.00205	PASS
	HV	9.02	0.00480	5.74	0.00305	PASS
CA-66B 64QAM		5MHz+5MHz (Bandwidth)		10MHz+10MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	6.23	0.00332	2.29	0.00122	PASS
Extreme (50℃)		13.58	0.00722	5.88	0.00313	PASS
Extreme (40℃)		9.14	0.00486	14.05	0.00748	PASS
Extreme (30℃)		9.31	0.00495	16.83	0.00895	PASS
Extreme (20℃)		9.36	0.00498	10.56	0.00562	PASS
Extreme (10℃)		12.79	0.00681	5.04	0.00268	PASS
Extreme (0℃)		1.71	0.00091	16.48	0.00876	PASS
Extreme (-10℃)		2.37	0.00126	9.88	0.00525	PASS
Extreme (-20℃)		6.90	0.00367	17.65	0.00939	PASS
Extreme (-30℃)		13.10	0.00697	15.28	0.00813	PASS
25℃	LV	17.33	0.00922	5.36	0.00285	PASS
	HV	17.90	0.00952	7.35	0.00391	PASS

CA-66C QPSK		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	9.69	0.00516	17.54	0.00933	PASS
Extreme (50℃)		17.38	0.00924	17.35	0.00923	PASS
Extreme (40℃)		16.44	0.00875	3.93	0.00209	PASS
Extreme (30℃)		4.54	0.00241	17.00	0.00905	PASS
Extreme (20℃)		12.47	0.00663	12.80	0.00681	PASS
Extreme (10℃)		7.78	0.00414	14.77	0.00786	PASS
Extreme (0℃)		15.61	0.00830	2.54	0.00135	PASS
Extreme (-10℃)		8.83	0.00469	16.42	0.00873	PASS
Extreme (-20℃)		11.00	0.00585	3.69	0.00196	PASS
Extreme (-30℃)		8.82	0.00469	9.57	0.00509	PASS
25℃	LV	17.33	0.00922	9.42	0.00501	PASS
	HV	17.32	0.00921	5.31	0.00282	PASS
CA-66C 16QAM		20MHz+5MHz		20MHz+20MHz		Verdict

		(Bandwidth)		(Bandwidth)		
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	3.88	0.00206	4.99	0.00265	PASS
Extreme (50℃)		10.45	0.00556	17.19	0.00914	PASS
Extreme (40℃)		10.70	0.00569	2.03	0.00108	PASS
Extreme (30℃)		5.65	0.00301	14.73	0.00784	PASS
Extreme (20℃)		9.09	0.00483	4.17	0.00222	PASS
Extreme (10℃)		10.20	0.00543	16.48	0.00877	PASS
Extreme (0℃)		14.11	0.00751	4.62	0.00246	PASS
Extreme (-10℃)		17.62	0.00937	4.22	0.00225	PASS
Extreme (-20℃)		6.46	0.00344	15.85	0.00843	PASS
Extreme (-30℃)		2.13	0.00113	12.41	0.00660	PASS
25℃	LV	8.93	0.00475	15.84	0.00843	PASS
	HV	3.15	0.00167	1.70	0.00090	PASS
CA-66C 64QAM		20MHz+5MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	14.68	0.00781	3.68	0.00196	PASS
Extreme (50℃)		2.25	0.00120	4.13	0.00220	PASS
Extreme (40℃)		16.60	0.00883	10.50	0.00558	PASS
Extreme (30℃)		5.21	0.00277	2.61	0.00139	PASS
Extreme (20℃)		11.69	0.00622	4.21	0.00224	PASS
Extreme (10℃)		6.44	0.00343	9.84	0.00523	PASS
Extreme (0℃)		11.69	0.00622	13.12	0.00698	PASS
Extreme (-10℃)		13.91	0.00740	6.21	0.00330	PASS
Extreme (-20℃)		10.70	0.00569	17.20	0.00915	PASS
Extreme (-30℃)		3.00	0.00160	9.88	0.00525	PASS
25℃	LV	10.32	0.00549	5.04	0.00268	PASS
	HV	7.95	0.00423	8.09	0.00430	PASS

CA-41A-41C QPSK		5MHz+20MHz +20MHz(Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal（25℃）	Normal	8.37	0.00445	7.37	0.00392	PASS
Extreme（50℃）		12.25	0.00651	5.06	0.00269	PASS
Extreme（40℃）		17.85	0.00949	9.62	0.00512	PASS

Extreme（30℃）		6.95	0.00370	9.03	0.00480	PASS
Extreme（20℃）		6.99	0.00372	17.56	0.00934	PASS
Extreme（10℃）		17.32	0.00921	16.06	0.00854	PASS
Extreme（0℃）		3.40	0.00181	3.94	0.00209	PASS
Extreme（-10℃）		2.13	0.00113	12.57	0.00669	PASS
Extreme（-20℃）		10.63	0.00566	9.44	0.00502	PASS
Extreme（-30℃）		9.86	0.00525	15.72	0.00836	PASS
25℃	LV	13.66	0.00727	17.71	0.00942	PASS
	HV	8.81	0.00469	14.26	0.00758	PASS
CA-41A-41C 16QAM		5MHz+20MHz +20MHz(Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal（25℃）	Normal	15.25	0.00811	8.88	0.00473	PASS
Extreme（50℃）		1.93	0.00103	16.60	0.00883	PASS
Extreme（40℃）		14.79	0.00787	1.98	0.00105	PASS
Extreme（30℃）		3.08	0.00164	3.49	0.00185	PASS
Extreme（20℃）		13.56	0.00721	3.88	0.00207	PASS
Extreme（10℃）		17.35	0.00923	13.13	0.00699	PASS
Extreme（0℃）		14.91	0.00793	8.89	0.00473	PASS
Extreme（-10℃）		10.32	0.00549	14.19	0.00755	PASS
Extreme（-20℃）		15.43	0.00821	8.32	0.00442	PASS
Extreme（-30℃）		11.95	0.00636	10.20	0.00543	PASS
25℃	LV	6.12	0.00325	4.06	0.00216	PASS
	HV	16.07	0.00855	17.46	0.00929	PASS
CA-41A-41C 64QAM		5MHz+20MHz +20MHz(Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal（25℃）	Normal	16.30	0.00867	14.63	0.00778	PASS
Extreme（50℃）		11.65	0.00620	10.42	0.00554	PASS
Extreme（40℃）		4.12	0.00219	16.55	0.00880	PASS
Extreme（30℃）		1.09	0.00058	4.24	0.00226	PASS
Extreme（20℃）		16.93	0.00900	2.34	0.00124	PASS
Extreme（10℃）		5.94	0.00316	9.60	0.00510	PASS
Extreme（0℃）		9.99	0.00531	12.77	0.00679	PASS
Extreme（-10℃）		6.02	0.00320	17.45	0.00928	PASS
Extreme（-20℃）		2.40	0.00128	1.92	0.00102	PASS
Extreme（-30℃）		10.05	0.00534	2.59	0.00138	PASS

25℃	LV	5.73	0.00305	2.82	0.00150	PASS
	HV	13.63	0.00725	16.14	0.00858	PASS

CA_41D QPSK		10MHz+15MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	8.37	0.00445	7.37	0.00392	PASS
Extreme (55℃)		6.61	0.00351	4.98	0.00265	PASS
Extreme (50℃)		12.25	0.00651	5.06	0.00269	PASS
Extreme (40℃)		17.85	0.00949	9.62	0.00512	PASS
Extreme (30℃)		6.95	0.00370	9.03	0.00480	PASS
Extreme (20℃)		6.99	0.00372	17.56	0.00934	PASS
Extreme (10℃)		17.32	0.00921	16.06	0.00854	PASS
Extreme (0℃)		3.40	0.00181	3.94	0.00209	PASS
Extreme (-10℃)		2.13	0.00113	12.57	0.00669	PASS
Extreme (-20℃)		10.63	0.00566	9.44	0.00502	PASS
Extreme (-30℃)		9.86	0.00525	15.72	0.00836	PASS
25℃	LV	13.66	0.00727	17.71	0.00942	PASS
	HV	8.81	0.00469	14.26	0.00758	PASS
CA_41D 16QAM		10MHz+15MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	15.25	0.00811	8.88	0.00473	PASS
Extreme (55℃)		3.47	0.00184	16.24	0.00864	PASS
Extreme (50℃)		1.93	0.00103	16.60	0.00883	PASS
Extreme (40℃)		14.79	0.00787	1.98	0.00105	PASS
Extreme (30℃)		3.08	0.00164	3.49	0.00185	PASS
Extreme (20℃)		13.56	0.00721	3.88	0.00207	PASS
Extreme (10℃)		17.35	0.00923	13.13	0.00699	PASS
Extreme (0℃)		14.91	0.00793	8.89	0.00473	PASS
Extreme (-10℃)		10.32	0.00549	14.19	0.00755	PASS
Extreme (-20℃)		15.43	0.00821	8.32	0.00442	PASS
Extreme (-30℃)		11.95	0.00636	10.20	0.00543	PASS
25℃	LV	6.12	0.00325	4.06	0.00216	PASS
	HV	16.07	0.00855	17.46	0.00929	PASS
CA_41D 64QAM		10MHz+15MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict

Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	16.30	0.00867	14.63	0.00778	PASS
Extreme (55℃)		16.49	0.00877	2.01	0.00107	PASS
Extreme (50℃)		11.65	0.00620	10.42	0.00554	PASS
Extreme (40℃)		4.12	0.00219	16.55	0.00880	PASS
Extreme (30℃)		1.09	0.00058	4.24	0.00226	PASS
Extreme (20℃)		16.93	0.00900	2.34	0.00124	PASS
Extreme (10℃)		5.94	0.00316	9.60	0.00510	PASS
Extreme (0℃)		9.99	0.00531	12.77	0.00679	PASS
Extreme (-10℃)		6.02	0.00320	17.45	0.00928	PASS
Extreme (-20℃)		2.40	0.00128	1.92	0.00102	PASS
Extreme (-30℃)		10.05	0.00534	2.59	0.00138	PASS
25℃	LV	5.73	0.00305	2.82	0.00150	PASS
	HV	13.63	0.00725	16.14	0.00858	PASS

CA-7C-4A QPSK		20MHz+10MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	17.05	0.00907	14.87	0.00791	PASS
Extreme (50℃)		11.52	0.00613	14.81	0.00788	PASS
Extreme (40℃)		1.82	0.00097	2.23	0.00119	PASS
Extreme (30℃)		16.63	0.00885	17.60	0.00936	PASS
Extreme (20℃)		11.21	0.00597	16.16	0.00859	PASS
Extreme (10℃)		10.98	0.00584	12.72	0.00677	PASS
Extreme (0℃)		16.91	0.00899	15.75	0.00838	PASS
Extreme (-10℃)		4.28	0.00228	11.31	0.00602	PASS
Extreme (-20℃)		17.49	0.00930	10.75	0.00572	PASS
Extreme (-30℃)		5.78	0.00307	1.87	0.00099	PASS
25℃	LV	14.01	0.00745	10.05	0.00535	PASS
	HV	6.35	0.00338	10.80	0.00574	PASS
CA-7C-4A 16QAM		20MHz+10MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	2.22	0.00118	13.05	0.00694	PASS
Extreme (50℃)		5.87	0.00312	12.21	0.00650	PASS
Extreme (40℃)		16.51	0.00878	4.79	0.00255	PASS

RF Test Report				Report No.: R2410A1542-R4		
Extreme (30℃)		6.03	0.00321	5.73	0.00305	PASS
Extreme (20℃)		17.57	0.00934	17.88	0.00951	PASS
Extreme (10℃)		6.32	0.00336	3.74	0.00199	PASS
Extreme (0℃)		17.31	0.00921	10.01	0.00533	PASS
Extreme (-10℃)		10.95	0.00583	6.83	0.00363	PASS
Extreme (-20℃)		6.04	0.00321	6.98	0.00372	PASS
Extreme (-30℃)		13.97	0.00743	11.69	0.00622	PASS
25℃	LV	8.21	0.00437	15.61	0.00830	PASS
	HV	6.43	0.00342	13.89	0.00739	PASS
CA-7C-4A 64QAM		20MHz+10MHz+20MHz (Bandwidth)		20MHz+20MHz +20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	17.78	0.00946	14.11	0.00750	PASS
Extreme (50℃)		4.13	0.00220	1.95	0.00104	PASS
Extreme (40℃)		6.69	0.00356	6.56	0.00349	PASS
Extreme (30℃)		11.24	0.00598	4.29	0.00228	PASS
Extreme (20℃)		13.66	0.00727	1.11	0.00059	PASS
Extreme (10℃)		17.79	0.00946	3.54	0.00188	PASS
Extreme (0℃)		3.62	0.00192	12.44	0.00662	PASS
Extreme (-10℃)		15.44	0.00821	6.37	0.00339	PASS
Extreme (-20℃)		11.34	0.00603	5.96	0.00317	PASS
Extreme (-30℃)		6.55	0.00348	3.98	0.00212	PASS
25℃	LV	9.42	0.00501	9.48	0.00504	PASS
	HV	11.30	0.00601	14.31	0.00761	PASS

CA-7C-5A QPSK		20MHz+10MHz+10MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	4.23	0.00225	17.66	0.00940	PASS
Extreme (50℃)		2.76	0.00147	15.02	0.00799	PASS
Extreme (40℃)		6.55	0.00348	10.55	0.00561	PASS
Extreme (30℃)		16.83	0.00895	17.40	0.00925	PASS
Extreme (20℃)		8.36	0.00444	7.25	0.00386	PASS
Extreme (10℃)		7.59	0.00404	16.79	0.00893	PASS
Extreme (0℃)		14.58	0.00776	14.59	0.00776	PASS
Extreme (-10℃)		7.82	0.00416	15.62	0.00831	PASS
Extreme (-20℃)		12.20	0.00649	1.39	0.00074	PASS
Extreme (-30℃)		17.24	0.00917	14.27	0.00759	PASS

RF Test Report				Report No.: R2410A1342-R4		
25℃	LV	2.84	0.00151	16.01	0.00852	PASS
	HV	13.32	0.00709	14.20	0.00756	PASS
CA-7C-5A 16QAM		20MHz+10MHz+10MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	16.39	0.00872	8.42	0.00448	PASS
Extreme (50℃)		10.50	0.00559	6.27	0.00333	PASS
Extreme (40℃)		4.46	0.00237	17.33	0.00922	PASS
Extreme (30℃)		3.84	0.00204	8.09	0.00431	PASS
Extreme (20℃)		3.92	0.00208	2.98	0.00159	PASS
Extreme (10℃)		1.19	0.00063	12.85	0.00683	PASS
Extreme (0℃)		16.88	0.00898	16.69	0.00888	PASS
Extreme (-10℃)		8.88	0.00472	14.91	0.00793	PASS
Extreme (-20℃)		2.90	0.00154	9.75	0.00518	PASS
Extreme (-30℃)		10.99	0.00584	1.38	0.00073	PASS
25℃	LV	4.86	0.00258	12.38	0.00658	PASS
	HV	17.36	0.00923	3.97	0.00211	PASS
CA-7C-5A 64QAM		20MHz+10MHz+10MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	16.36	0.00870	17.11	0.00910	PASS
Extreme (50℃)		3.00	0.00160	17.48	0.00930	PASS
Extreme (40℃)		7.95	0.00423	11.79	0.00627	PASS
Extreme (30℃)		17.59	0.00936	8.36	0.00445	PASS
Extreme (20℃)		13.63	0.00725	13.94	0.00741	PASS
Extreme (10℃)		11.89	0.00632	1.63	0.00087	PASS
Extreme (0℃)		7.11	0.00378	15.94	0.00848	PASS
Extreme (-10℃)		7.39	0.00393	8.64	0.00460	PASS
Extreme (-20℃)		8.21	0.00437	13.40	0.00713	PASS
Extreme (-30℃)		2.55	0.00136	1.14	0.00061	PASS
25℃	LV	15.49	0.00824	11.06	0.00588	PASS
	HV	7.56	0.00402	10.03	0.00533	PASS

CA-4C-12A QPSK		10MHz+20MHz+10MHz (Bandwidth)		20MHz+20MHz +20MHz(Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	15.04	0.00800	11.05	0.00588	PASS

Extreme (50℃)				9.47	0.00503	3.66	0.00195	PASS
Extreme (40℃)				2.28	0.00122	10.19	0.00542	PASS
Extreme (30℃)				6.32	0.00336	10.20	0.00542	PASS
Extreme (20℃)				13.21	0.00703	13.25	0.00705	PASS
Extreme (10℃)				13.78	0.00733	4.12	0.00219	PASS
Extreme (0℃)				3.05	0.00162	1.12	0.00059	PASS
Extreme (-10℃)				9.20	0.00489	7.01	0.00373	PASS
Extreme (-20℃)				13.42	0.00714	10.17	0.00541	PASS
Extreme (-30℃)				2.85	0.00152	13.58	0.00722	PASS
25℃				LV	6.29	0.00335	2.99	0.00159
			HV	3.35	0.00178	17.33	0.00922	PASS
CA-4C-12A 16QAM			10MHz+20MHz+10MHz (Bandwidth)			20MHz+20MHz +20MHz (Bandwidth)		Verdict
Condition			Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)		
Temperature	Voltage							
Normal (25℃)			Normal	3.61	0.00192	4.38	0.00233	PASS
Extreme (50℃)				17.74	0.00944	9.03	0.00480	PASS
Extreme (40℃)				12.15	0.00646	14.78	0.00786	PASS
Extreme (30℃)				6.99	0.00372	4.29	0.00228	PASS
Extreme (20℃)				2.14	0.00114	4.89	0.00260	PASS
Extreme (10℃)				2.87	0.00153	13.33	0.00709	PASS
Extreme (0℃)				8.68	0.00462	9.17	0.00488	PASS
Extreme (-10℃)				14.66	0.00780	4.46	0.00237	PASS
Extreme (-20℃)				17.00	0.00904	2.54	0.00135	PASS
Extreme (-30℃)				2.81	0.00150	8.53	0.00454	PASS
25℃			LV	14.29	0.00760	8.40	0.00447	PASS
			HV	2.58	0.00137	1.15	0.00061	PASS
CA-4C-12A 64QAM			10MHz+20MHz+10MHz (Bandwidth)			20MHz+20MHz +20MHz (Bandwidth)		Verdict
Condition			Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)		
Temperature	Voltage							
Normal (25℃)			Normal	2.81	0.00149	6.00	0.00319	PASS
Extreme (50℃)				11.42	0.00607	8.07	0.00429	PASS
Extreme (40℃)				16.80	0.00894	13.44	0.00715	PASS
Extreme (30℃)				6.45	0.00343	5.39	0.00287	PASS
Extreme (20℃)				17.05	0.00907	8.11	0.00432	PASS
Extreme (10℃)				1.99	0.00106	15.02	0.00799	PASS
Extreme (0℃)				16.05	0.00854	3.16	0.00168	PASS
Extreme (-10℃)				6.86	0.00365	15.15	0.00806	PASS
Extreme (-20℃)				4.30	0.00229	12.44	0.00662	PASS

Extreme (-30℃)		7.03	0.00374	16.47	0.00876	PASS
25℃	LV	3.61	0.00192	3.41	0.00181	PASS
	HV	9.45	0.00503	13.77	0.00732	PASS

5.6 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 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

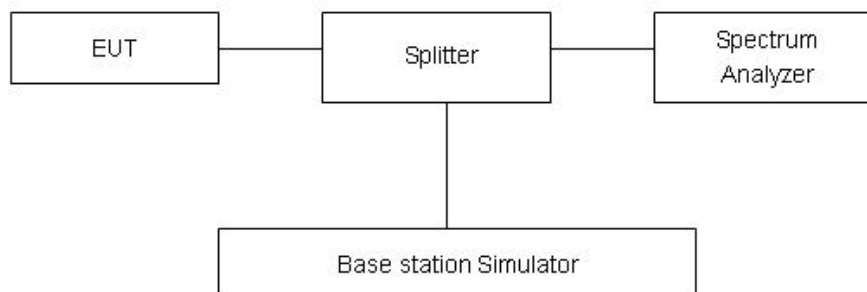
RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

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

Test setup



Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB..”

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Rule Part 27.53(m) $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Part 27.53(a)/(h)/(g) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm

Measurement Uncertainty

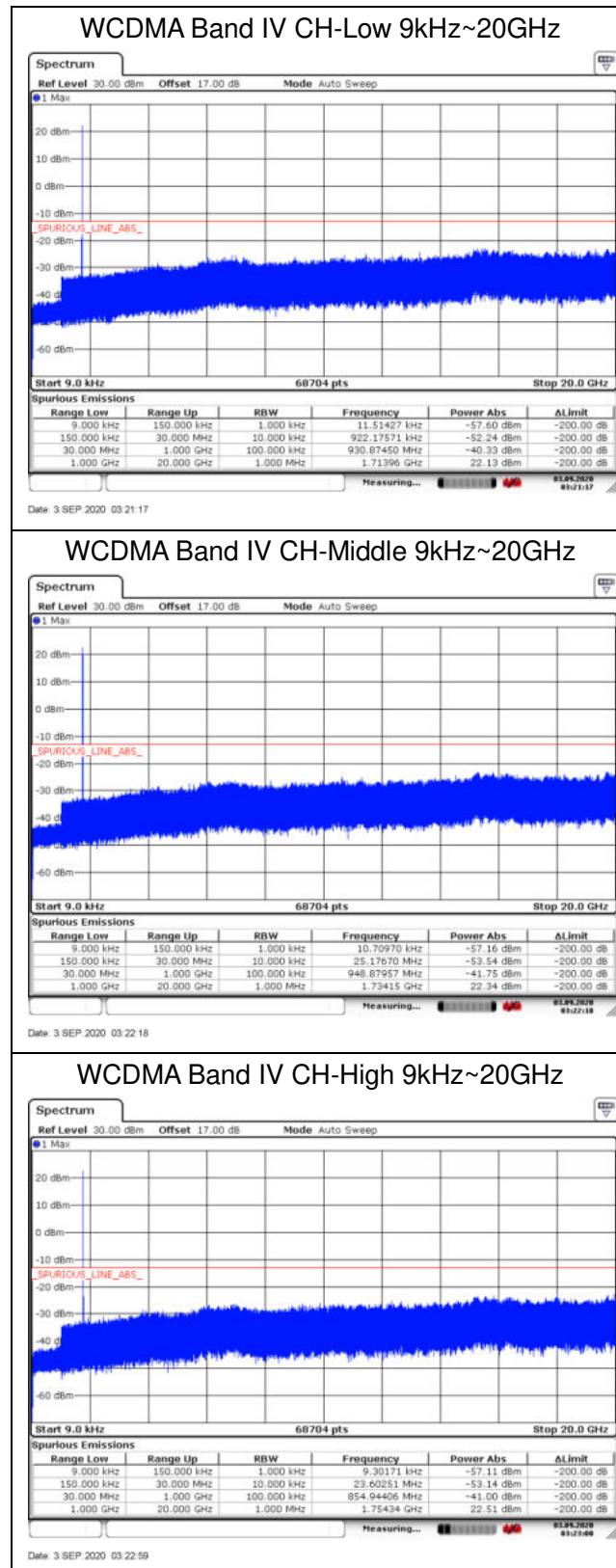
The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
1GHz-27GHz	1.407 dB

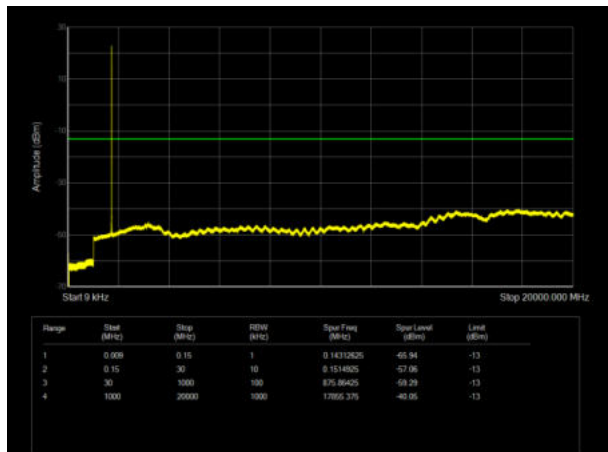
Test Result

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.

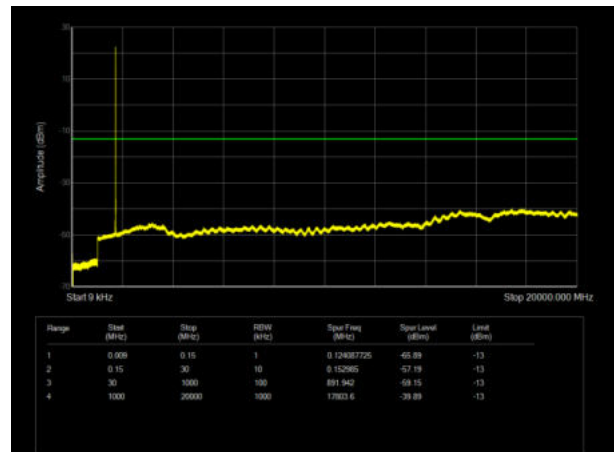
The signal beyond the limit is carrier.



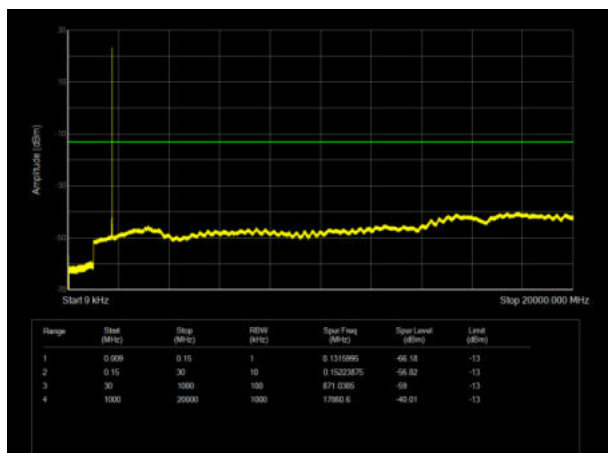
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



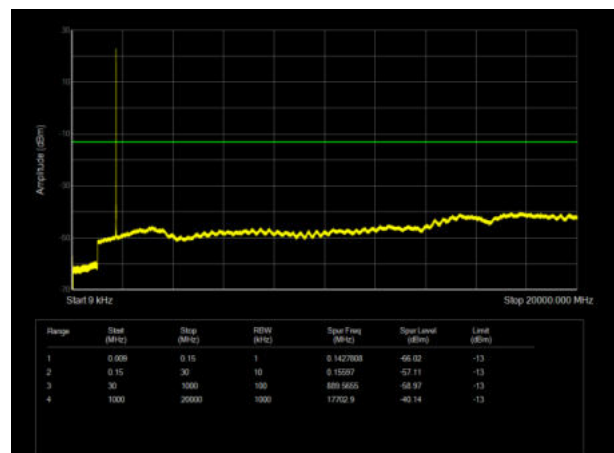
LTE Band 4 3MHz CH- Low 9kHz~20GHz



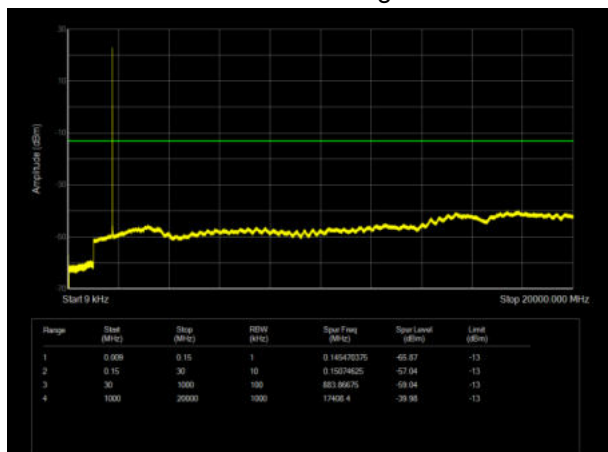
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



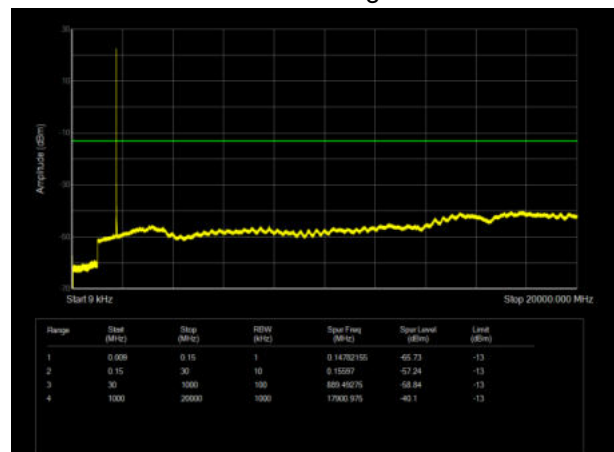
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



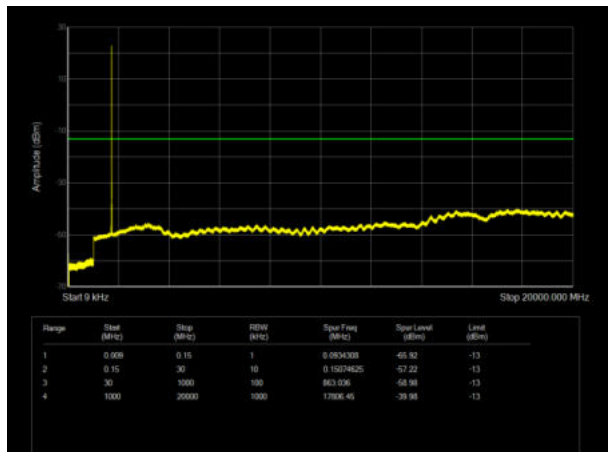
LTE Band 4 1.4MHz CH- High 9kHz~20GHz



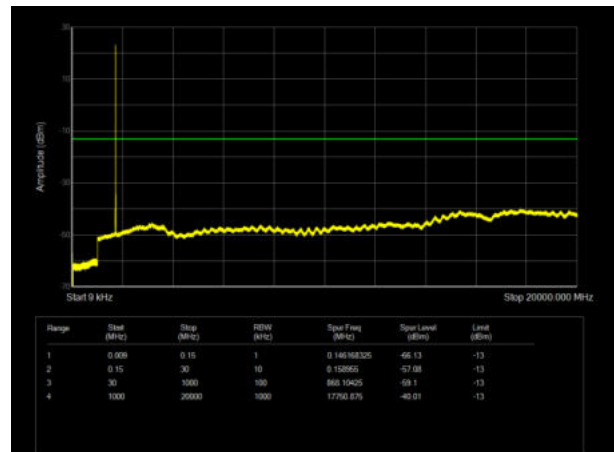
LTE Band 4 3MHz CH-High 9kHz~20GHz



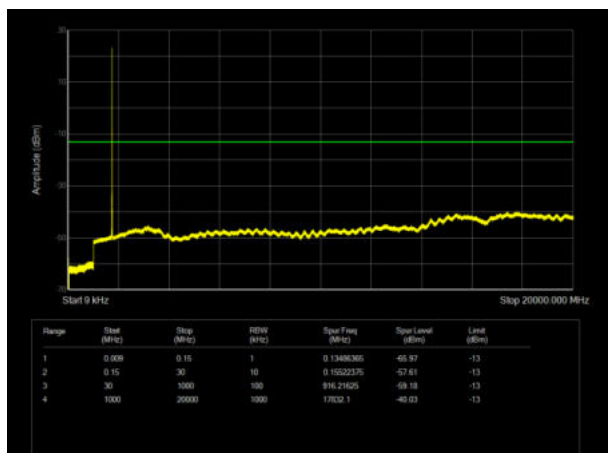
LTE Band 4 5MHz CH- Low 9kHz~20GHz



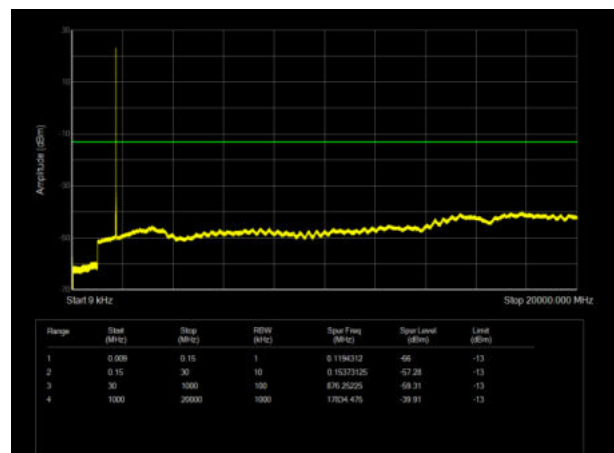
LTE Band 4 10MHz CH-Low 9kHz~20GHz



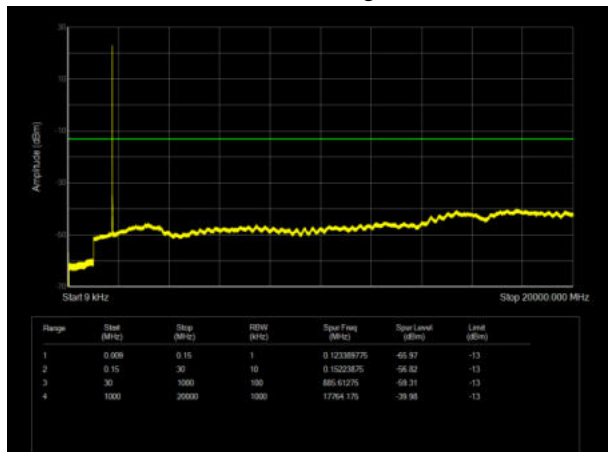
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



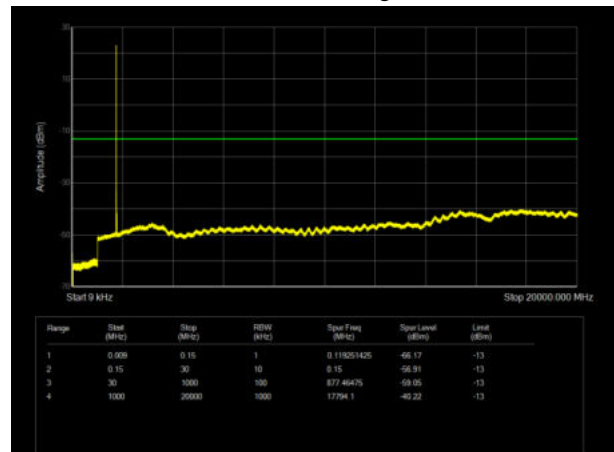
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



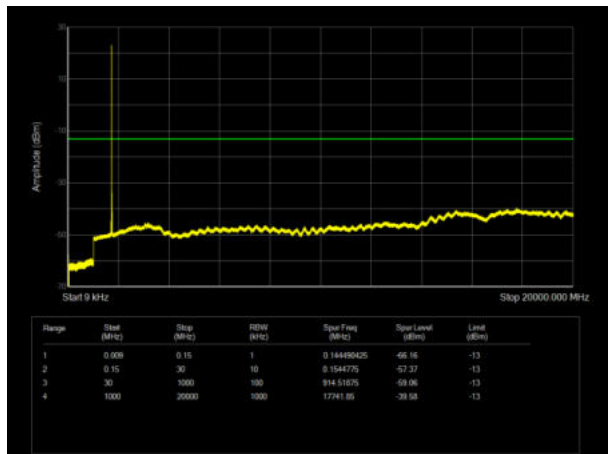
LTE Band 4 5MHz CH-High 9kHz~20GHz



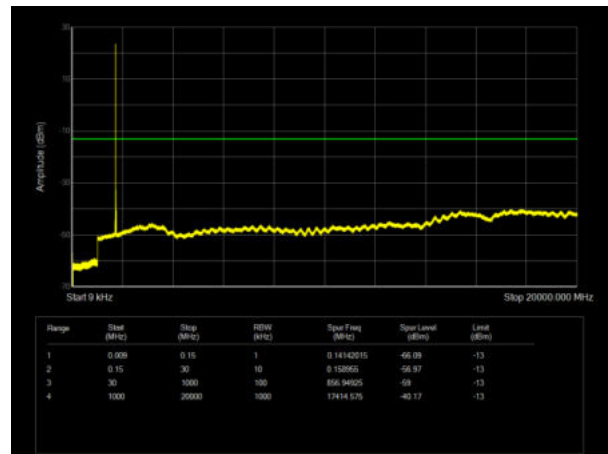
LTE Band 4 10MHz CH- High 9kHz~20GHz



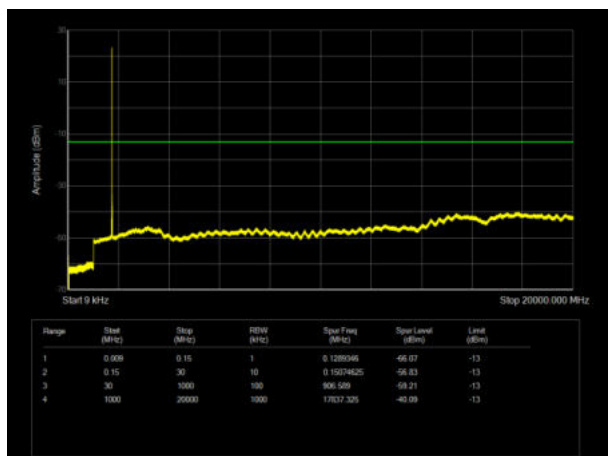
LTE Band 4 15MHz CH- Low 9kHz~20GHz



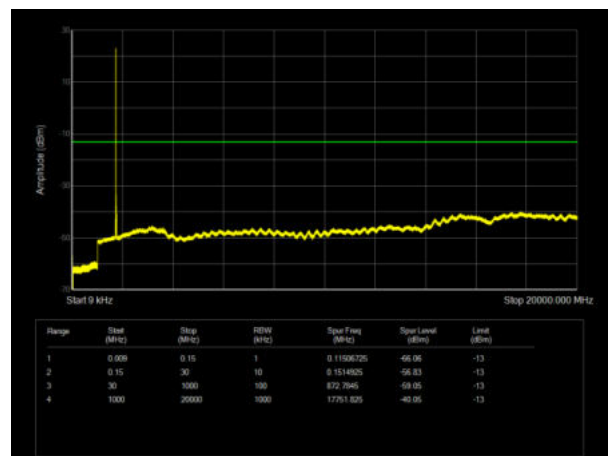
LTE Band 4 20MHz CH-Low 9kHz~20GHz



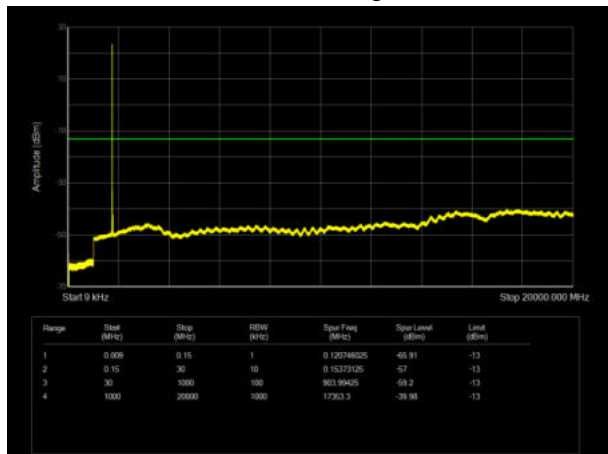
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



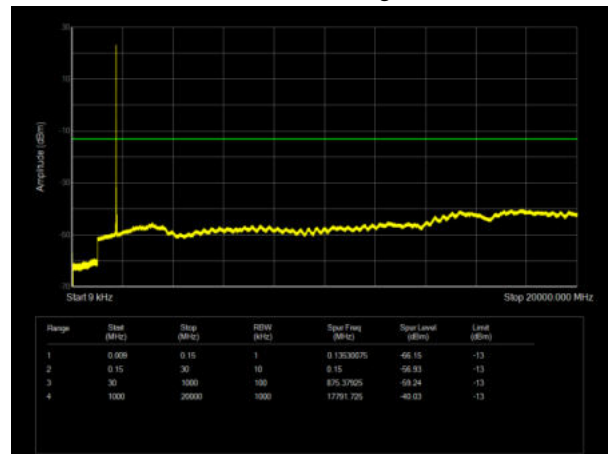
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



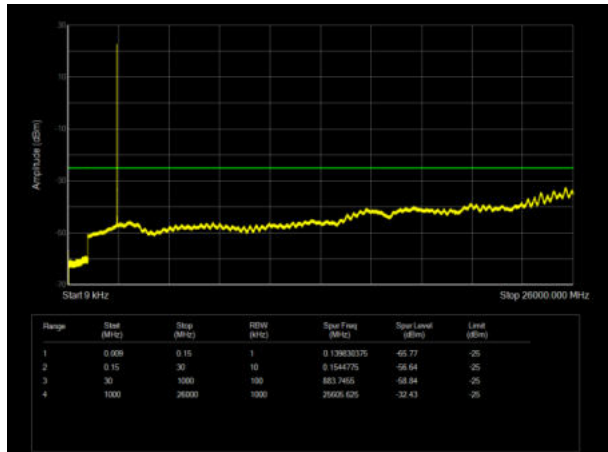
LTE Band 4 15MHz CH-High 9kHz~20GHz



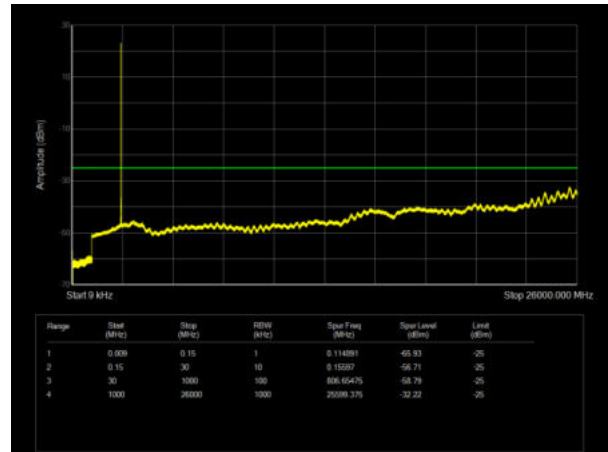
LTE Band 4 20MHz CH- High 9kHz~20GHz



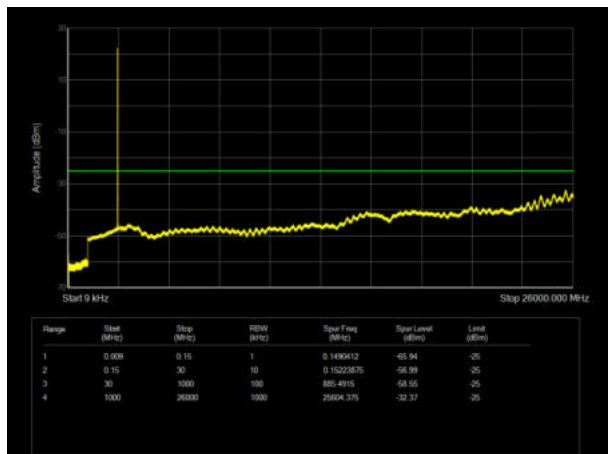
LTE Band 7 5MHz CH- Low 9kHz~26GHz



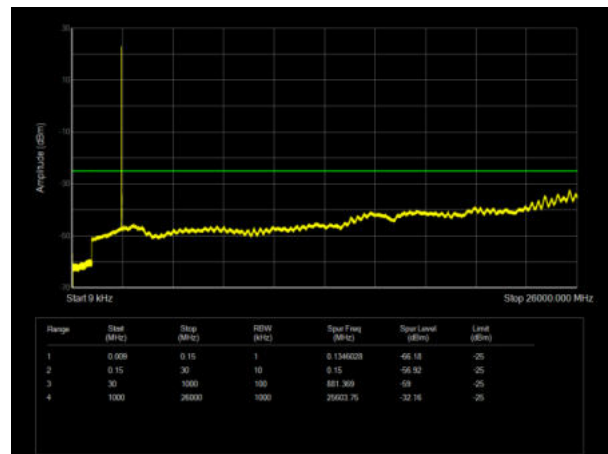
LTE Band 7 10MHz CH- Low 9kHz~26GHz



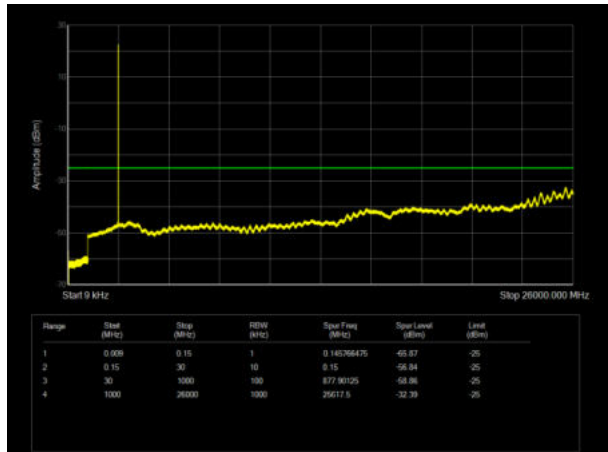
LTE Band 7 5MHz CH- Middle 9kHz~26GHz



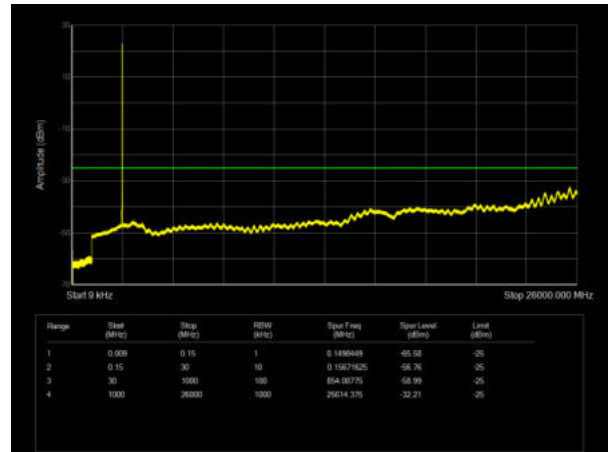
LTE Band 7 10MHz CH- Middle 9kHz~26GHz



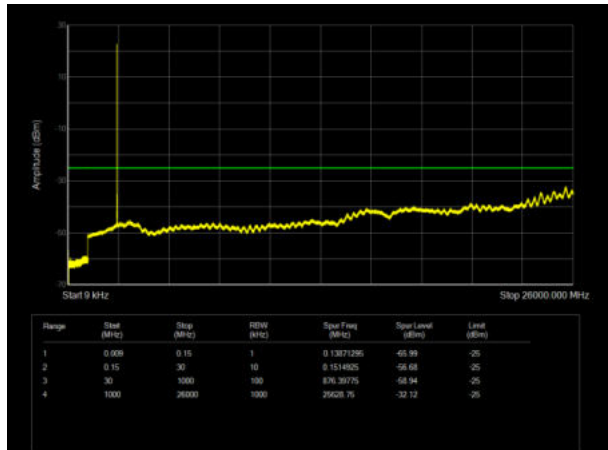
LTE Band 7 5MHz CH-High 9kHz~26GHz



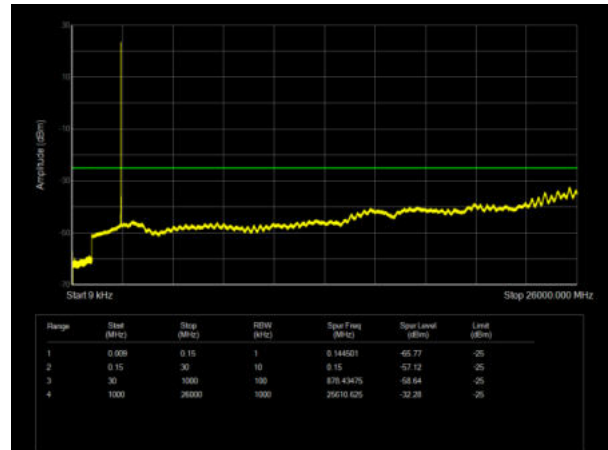
LTE Band 7 10MHz CH-High 9kHz~26GHz



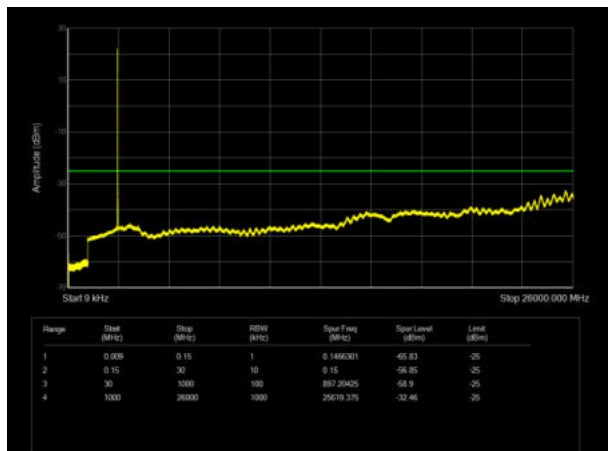
LTE Band 7 15MHz CH- Low 9kHz~26GHz



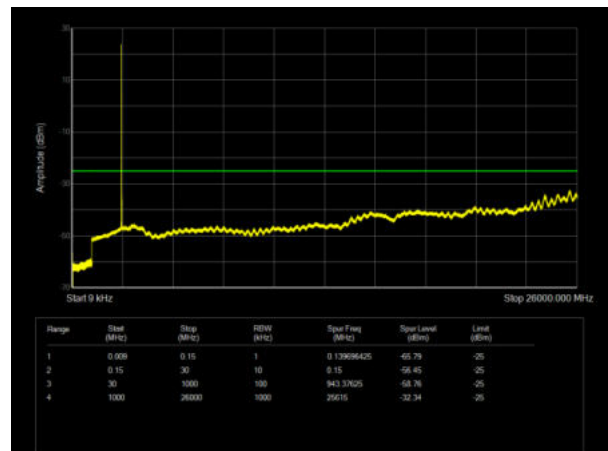
LTE Band 7 20MHz CH-Low 9kHz~26GHz



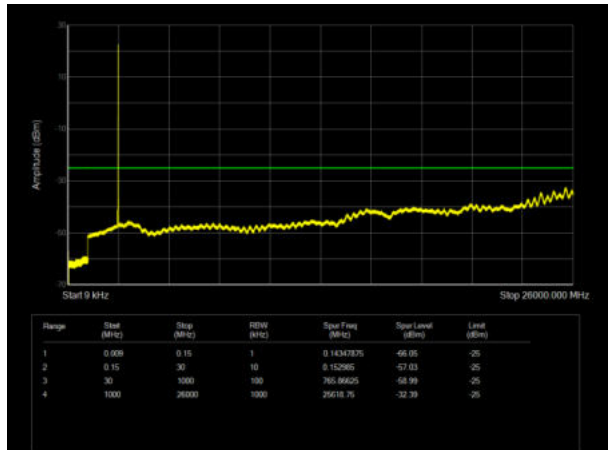
LTE Band 7 15MHz CH- Middle 9kHz~26GHz



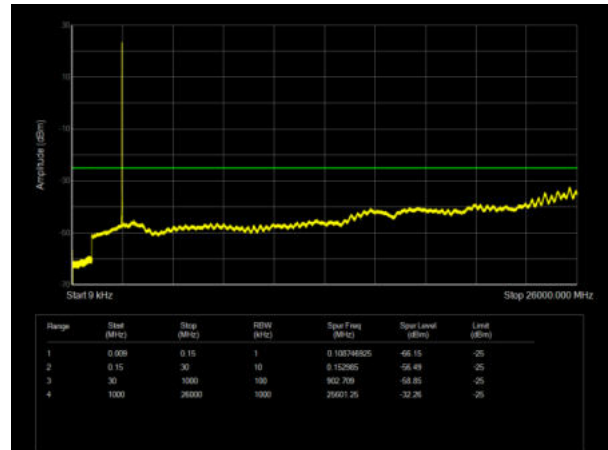
LTE Band 7 20MHz CH- Middle 9kHz~26GHz



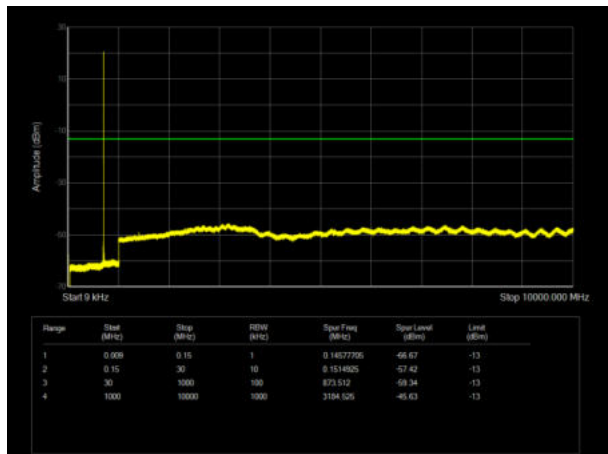
LTE Band 7 15MHz CH-High 9kHz~26GHz



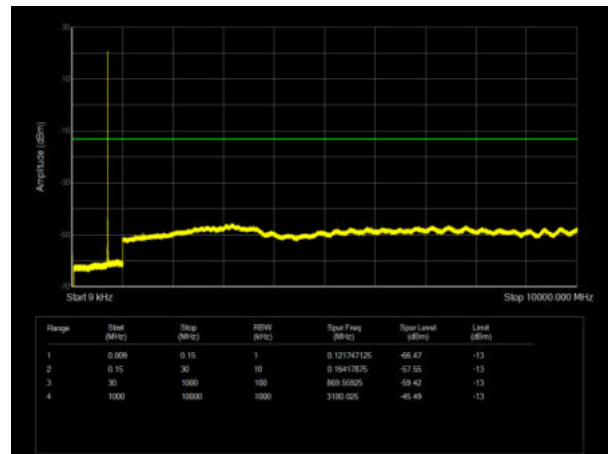
LTE Band 7 20MHz CH- High 9kHz~26GHz



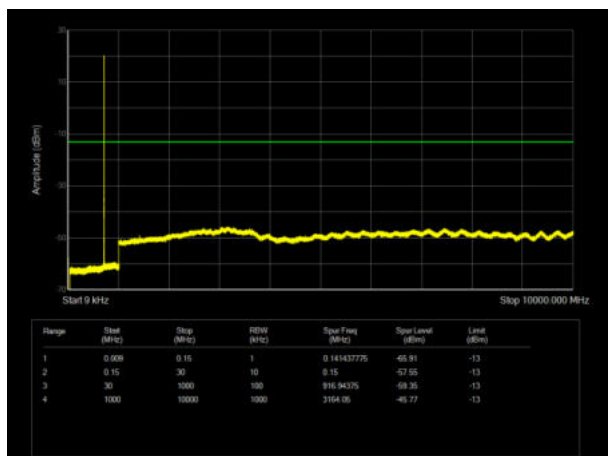
LTE Band 12 1.4MHz CH-Low 9kHz~10GHz



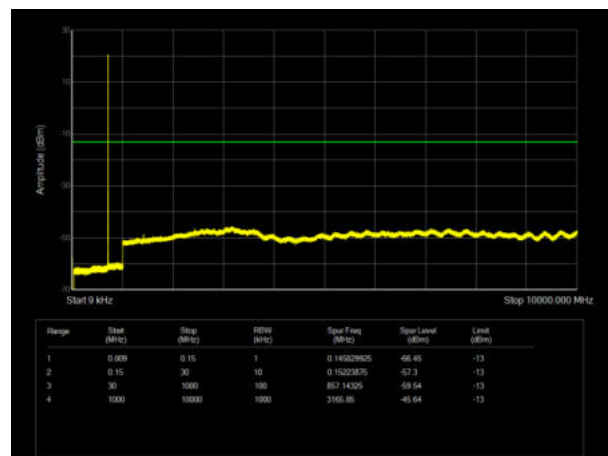
LTE Band 12 3MHz CH- Low 9kHz~10GHz



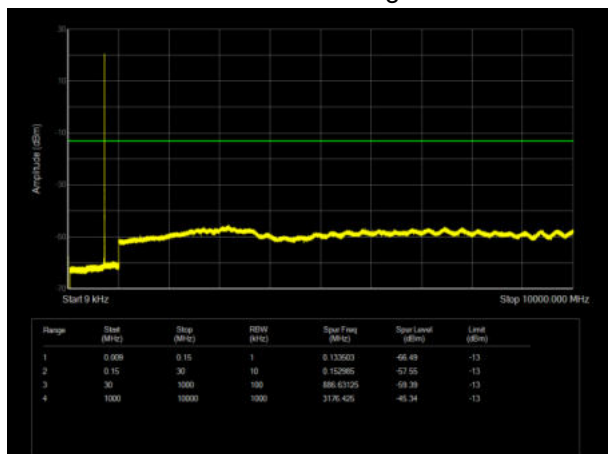
LTE Band 12 1.4MHz CH- Middle 9kHz~10GHz



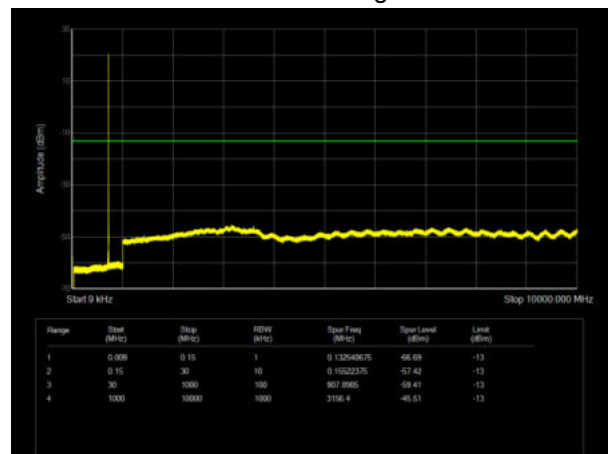
LTE Band 12 3MHz CH- Middle 9kHz~10GHz



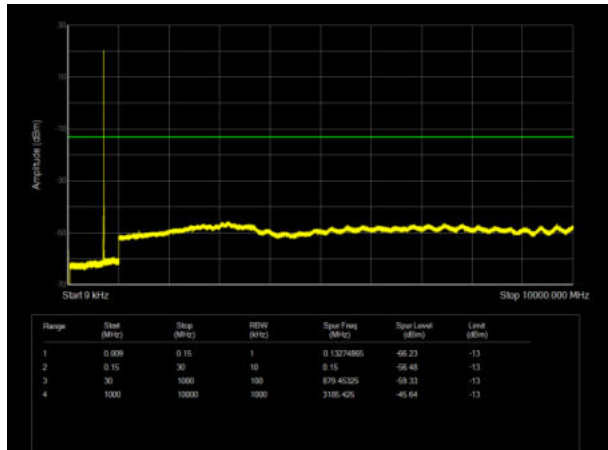
LTE Band 12 1.4MHz CH- High 9kHz~10GHz



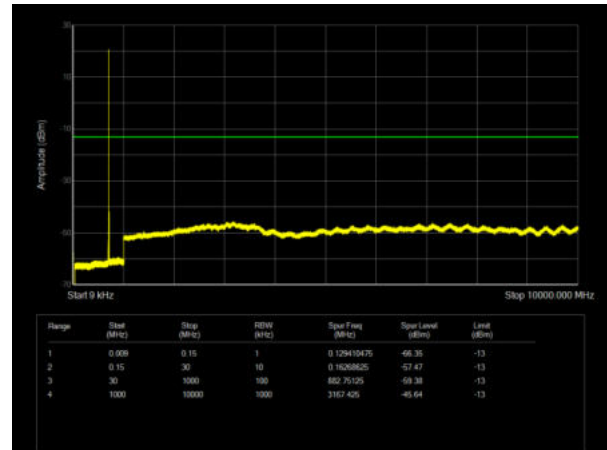
LTE Band 12 3MHz CH-High 9kHz~10GHz



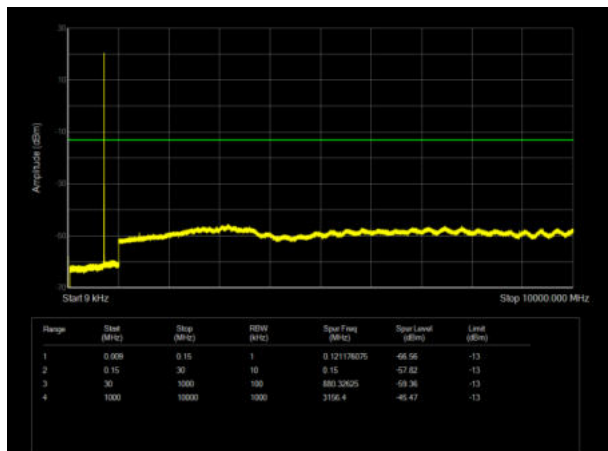
LTE Band 12 5MHz CH- Low 9kHz~10GHz



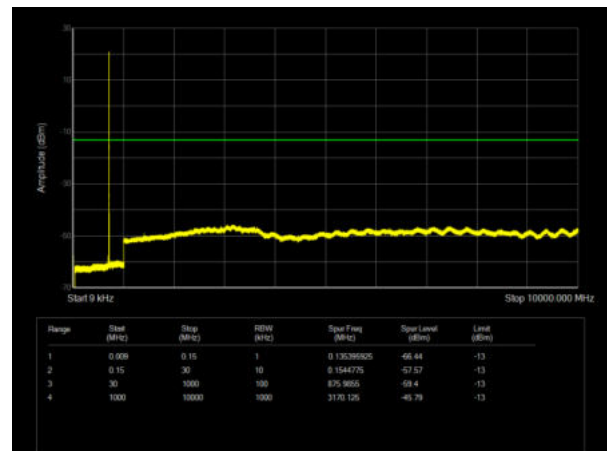
LTE Band 12 10MHz CH-Low 9kHz~10GHz



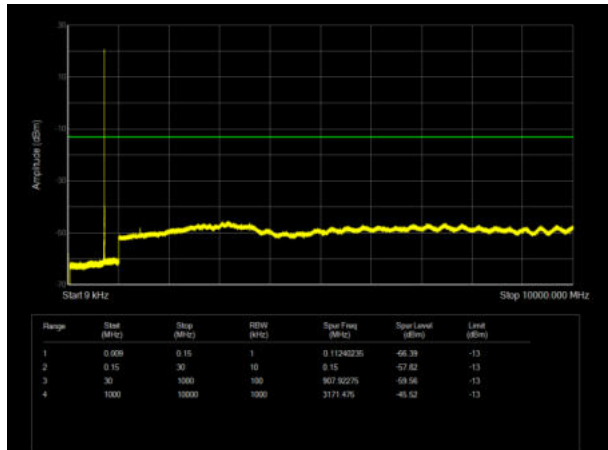
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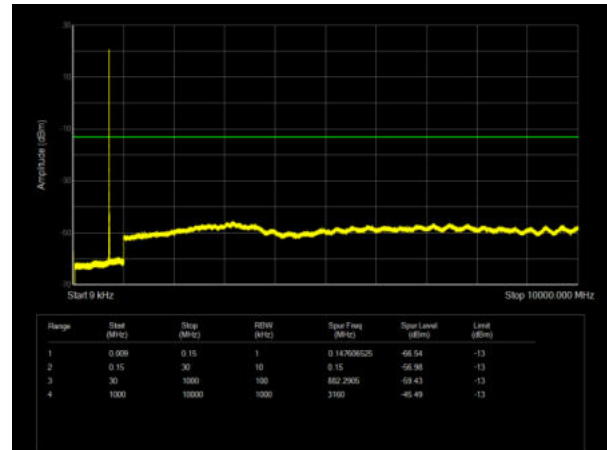
LTE Band 12 10MHz CH- Middle 9kHz~10GHz



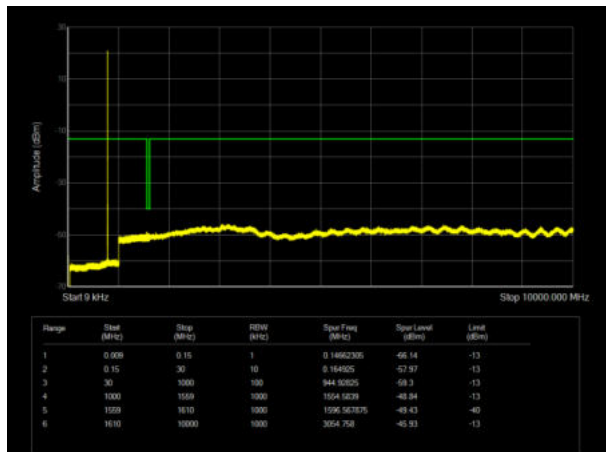
LTE Band 12 5MHz CH-High 9kHz~10GHz



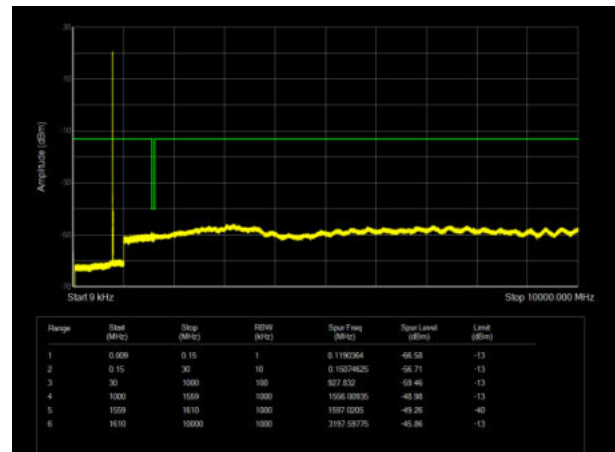
LTE Band 12 10MHz CH- High 9kHz~10GHz



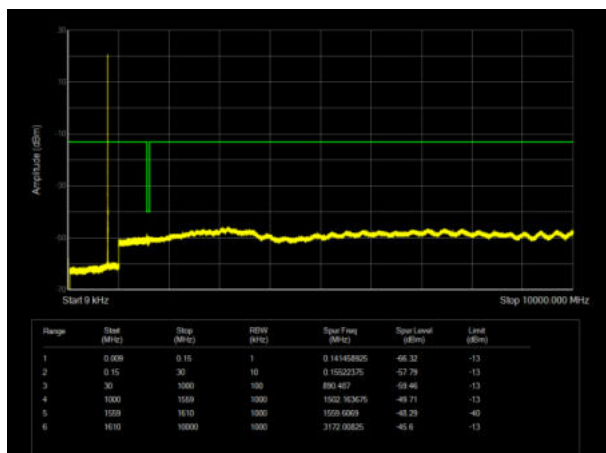
LTE Band 13 5MHz CH- Low 9kHz~10GHz



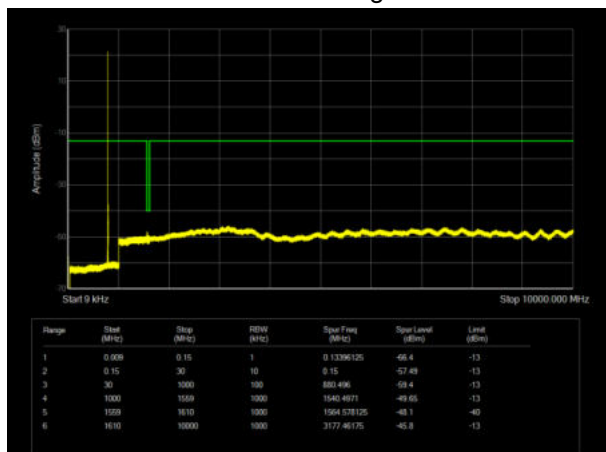
LTE Band 13 10MHz CH-Low 9kHz~10GHz



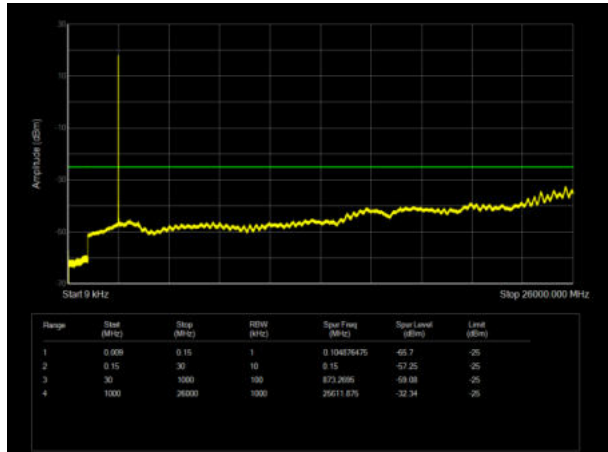
LTE Band 13 5MHz CH- Middle 9kHz~10GHz



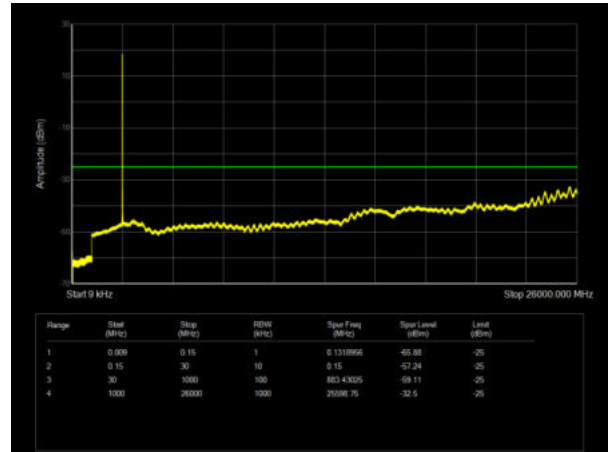
LTE Band 13 5MHz CH-High 9kHz~10GHz



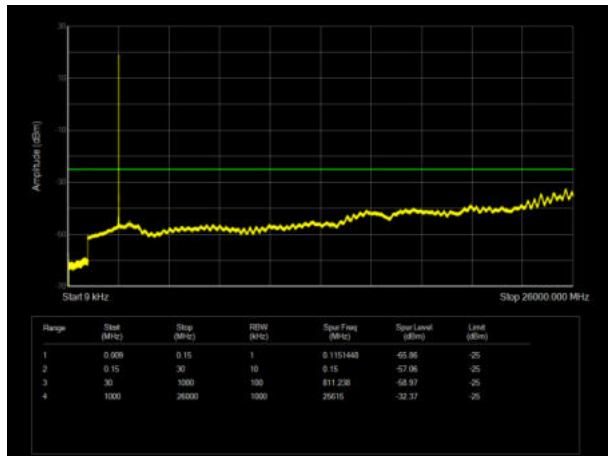
LTE Band 38 5MHz CH- Low 9kHz~26GHz



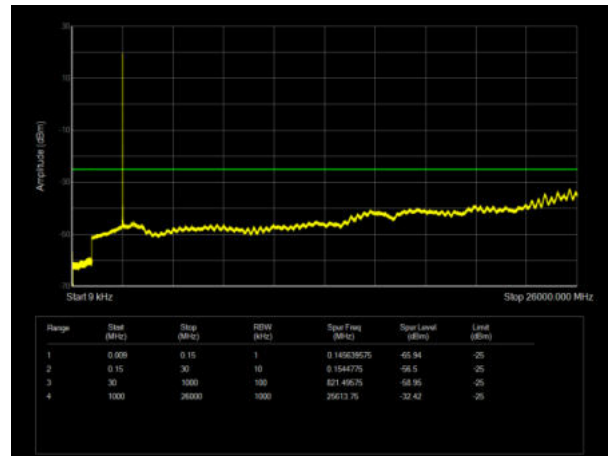
LTE Band 38 10MHz CH- Low 9kHz~26GHz



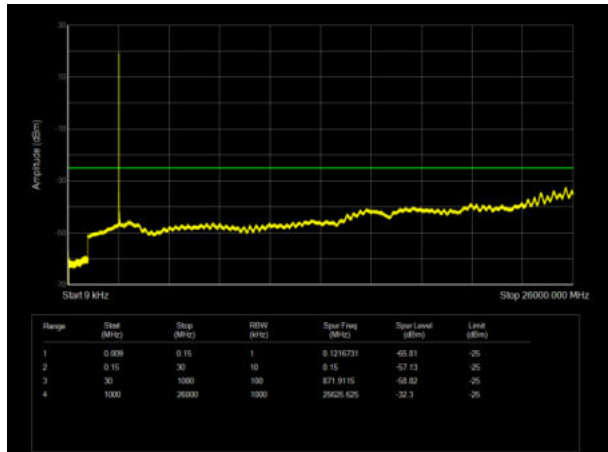
LTE Band 38 5MHz CH- Middle 9kHz~26GHz



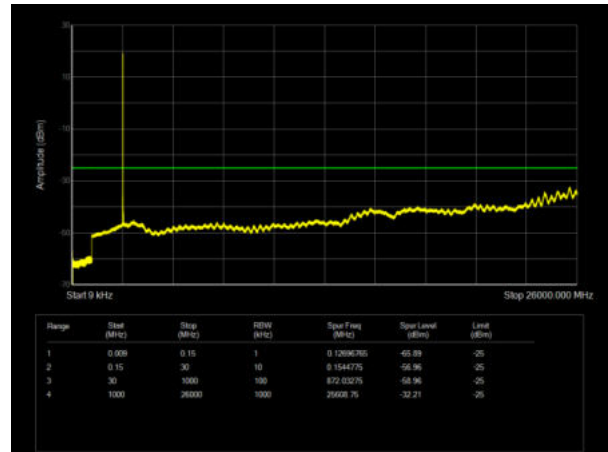
LTE Band 38 10MHz CH- Middle 9kHz~26GHz



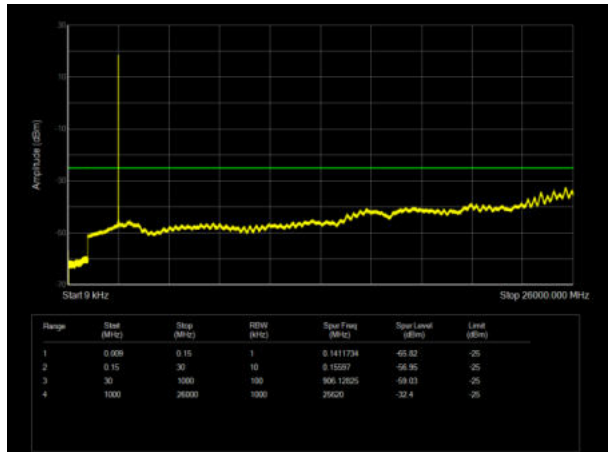
LTE Band 38 5MHz CH-High 9kHz~26GHz



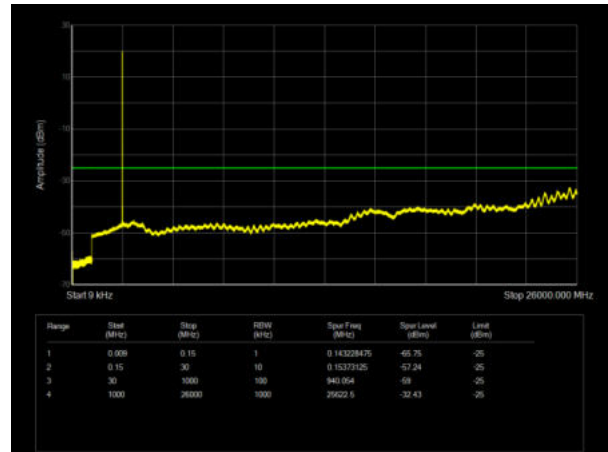
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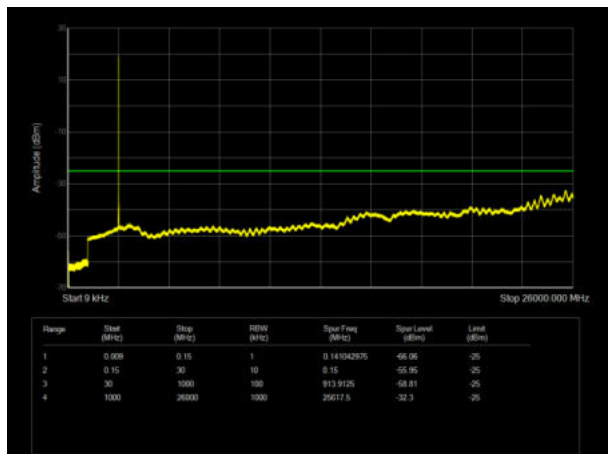
LTE Band 38 15MHz CH- Low 9kHz~26GHz



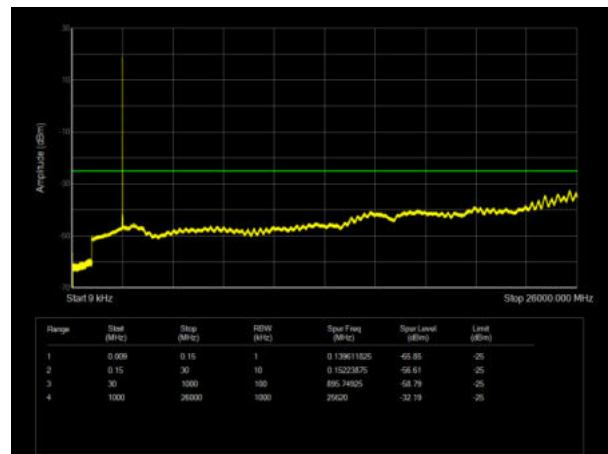
LTE Band 38 20MHz CH-Low 9kHz~26GHz



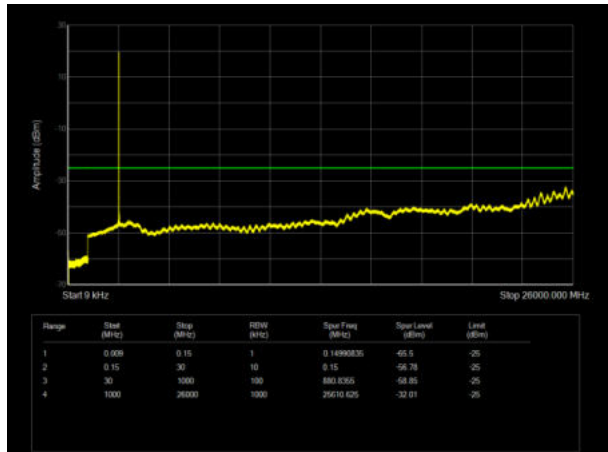
LTE Band 38 15MHz CH- Middle 9kHz~26GHz



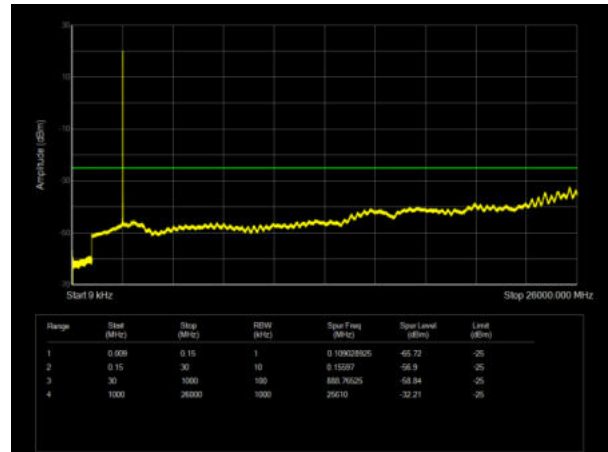
LTE Band 38 20MHz CH- Middle 9kHz~26GHz



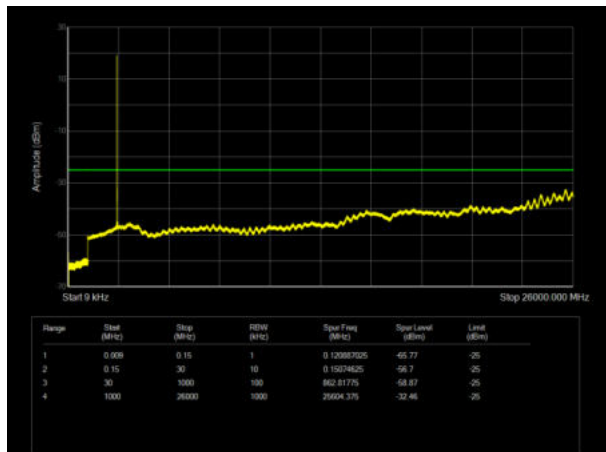
LTE Band 38 15MHz CH-High 9kHz~26GHz



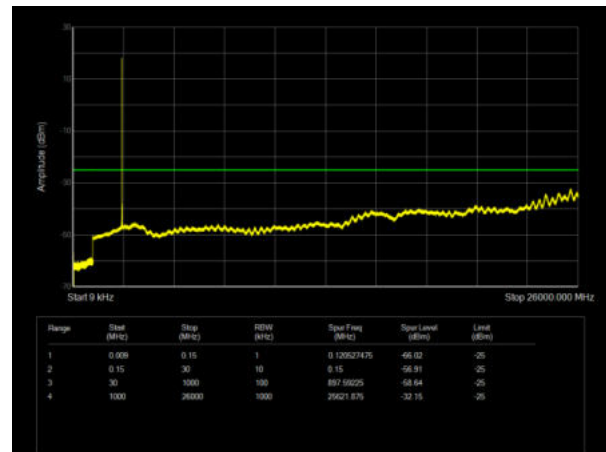
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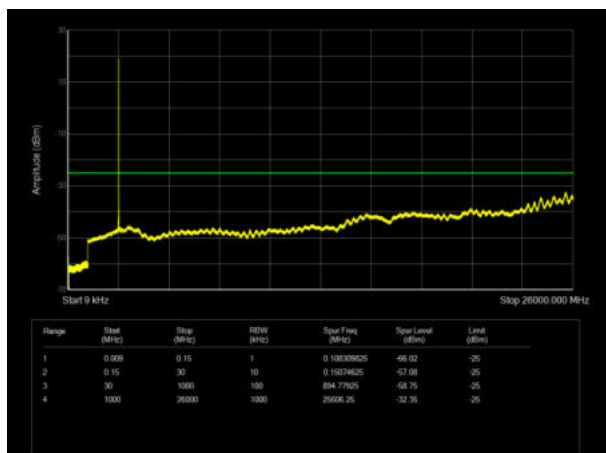
LTE Band 41 5MHz CH- Low 9kHz~26GHz



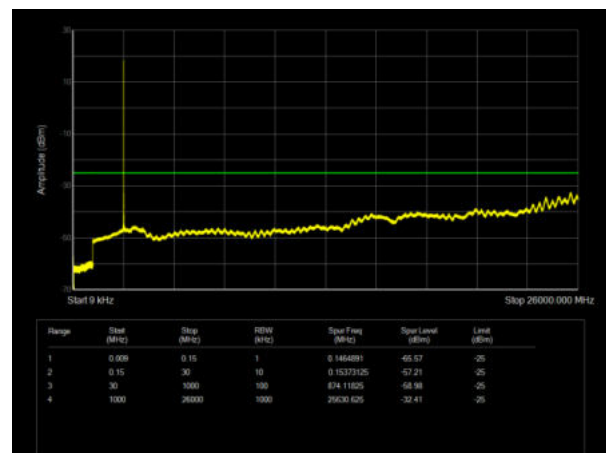
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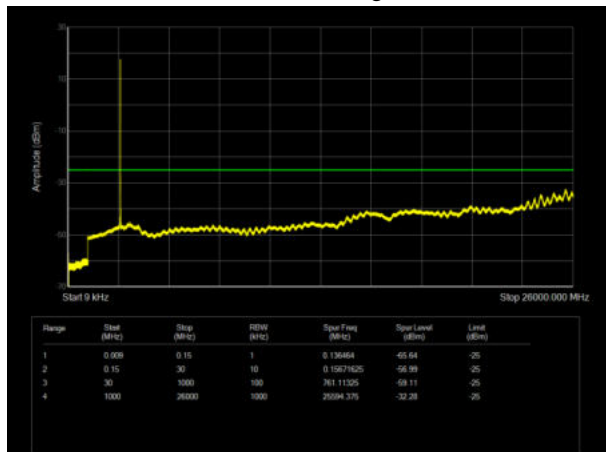
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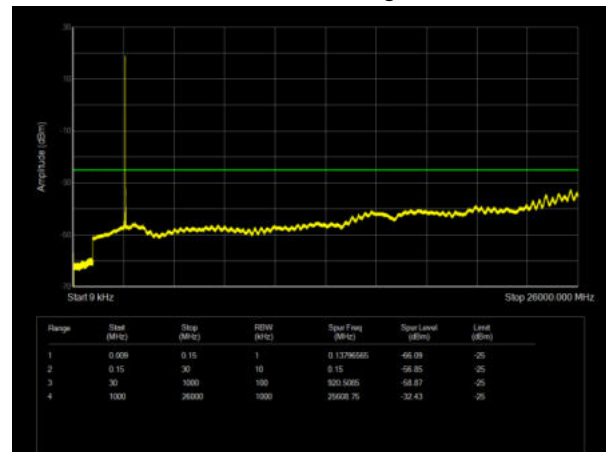
LTE Band 41 10MHz CH- Middle 9kHz~26GHz



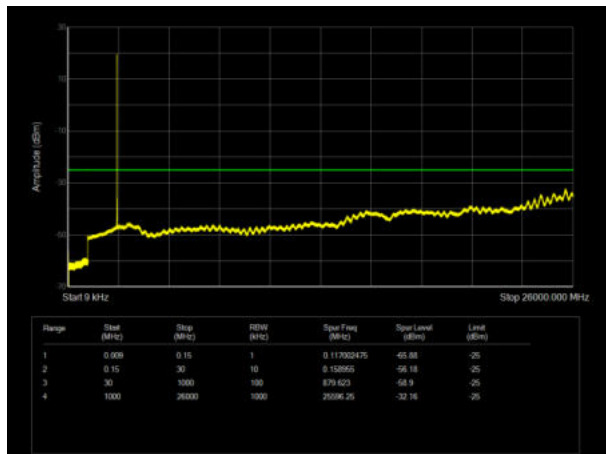
LTE Band 41 5MHz CH-High 9kHz~26GHz



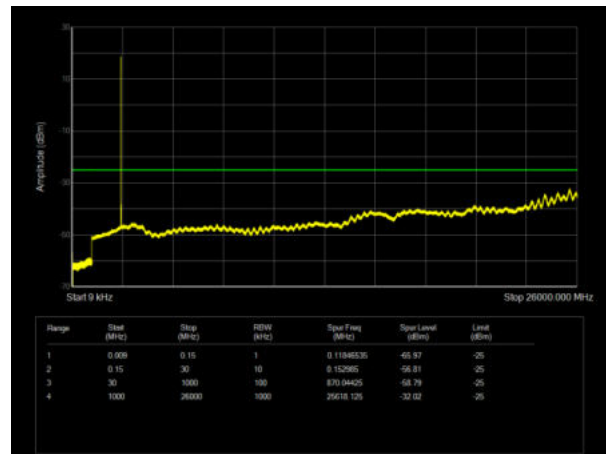
LTE Band 41 10MHz CH-High 9kHz~26GHz



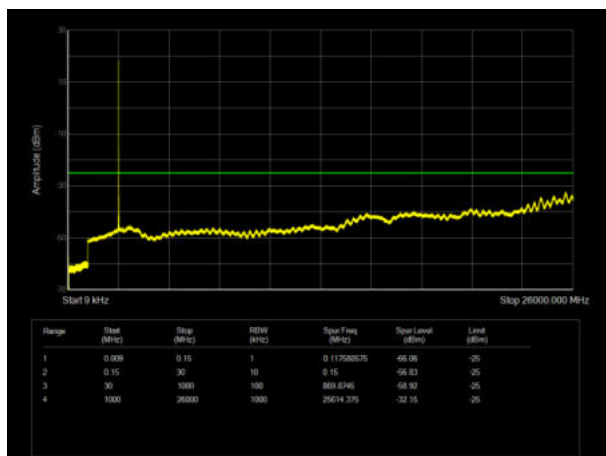
LTE Band 41 15MHz CH- Low 9kHz~26GHz



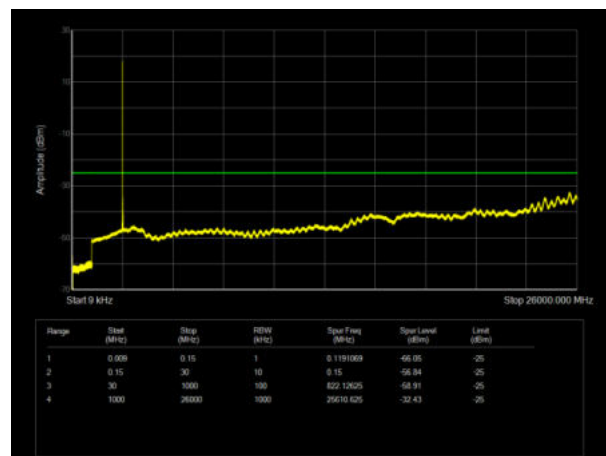
LTE Band 41 20MHz CH-Low 9kHz~26GHz



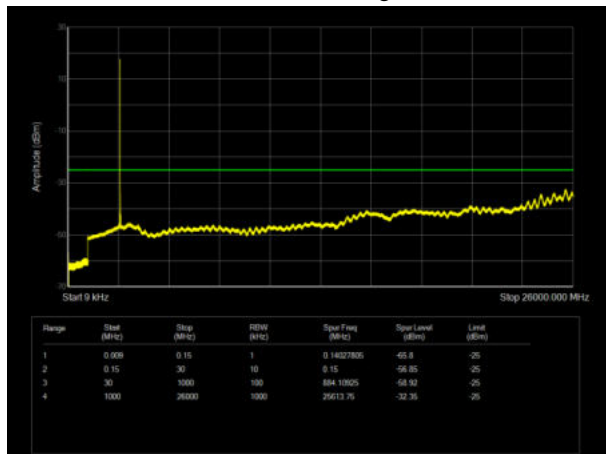
LTE Band 41 15MHz CH- Middle 9kHz~26GHz



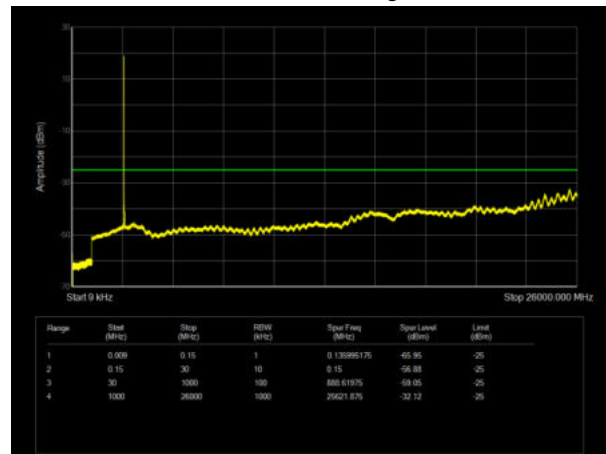
LTE Band 41 20MHz CH- Middle 9kHz~26GHz



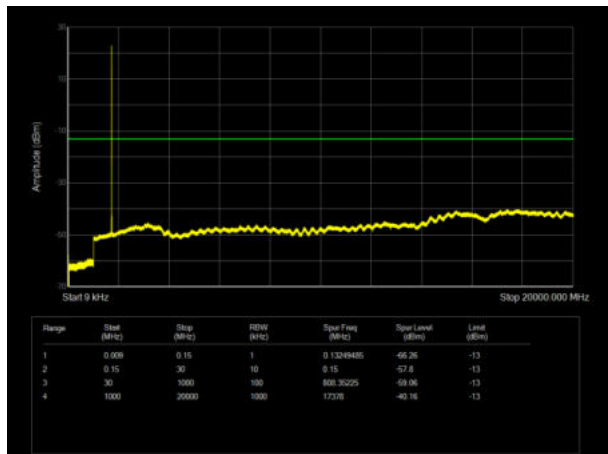
LTE Band 41 15MHz CH-High 9kHz~26GHz



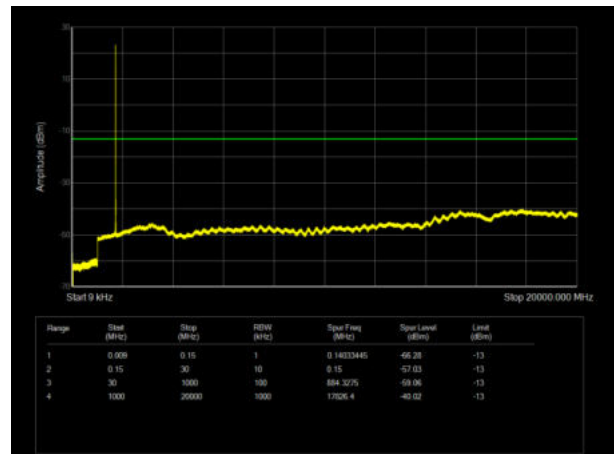
LTE Band 41 20MHz CH- High 9kHz~26GHz



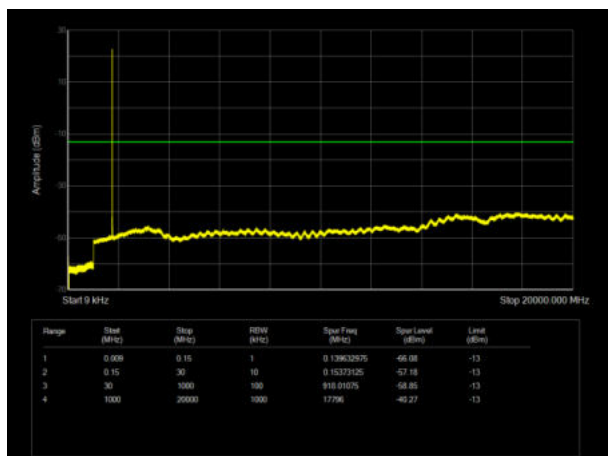
LTE Band 66 1.4MHz CH-Low 9kHz~20GHz



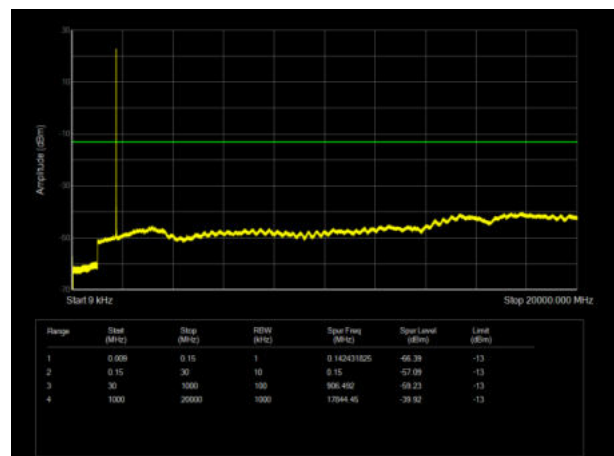
LTE Band 66 3MHz CH- Low 9kHz~20GHz



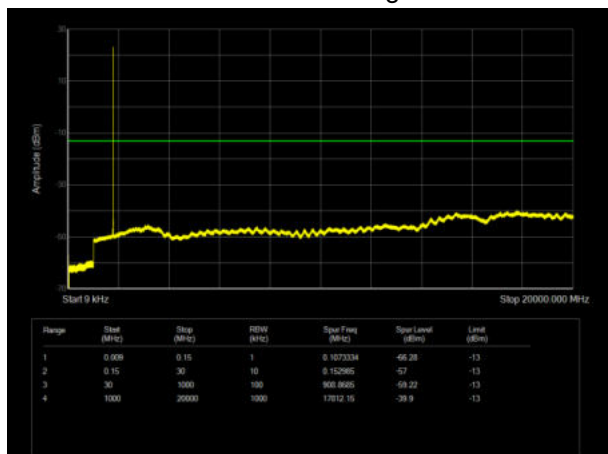
LTE Band 66 1.4MHz CH- Middle 9kHz~20GHz



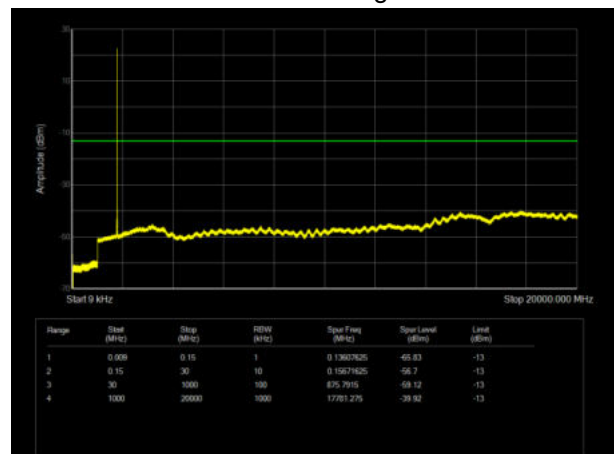
LTE Band 66 3MHz CH- Middle 9kHz~20GHz



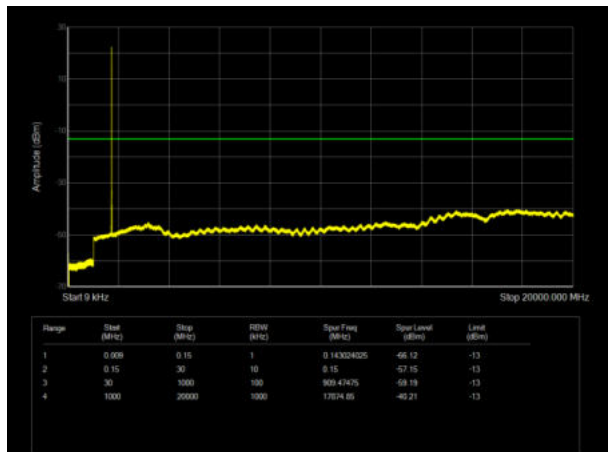
LTE Band 66 1.4MHz CH- High 9kHz~20GHz



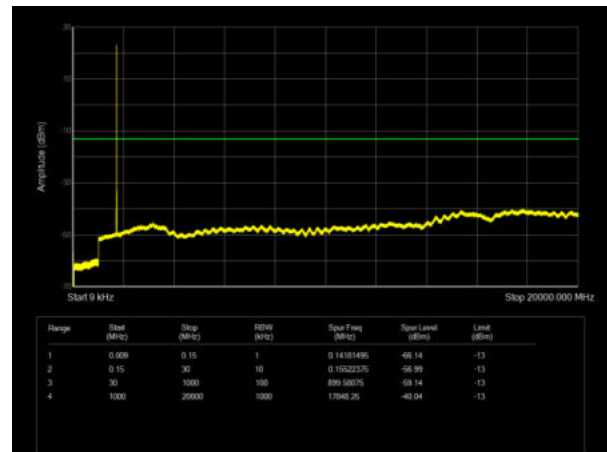
LTE Band 66 3MHz CH-High 9kHz~20GHz



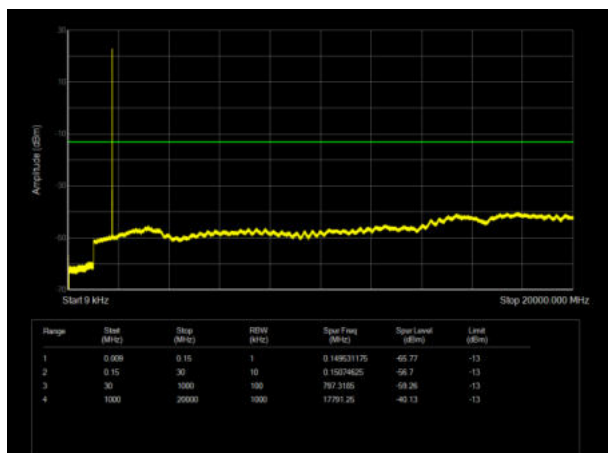
LTE Band 66 5MHz CH- Low 9kHz~20GHz



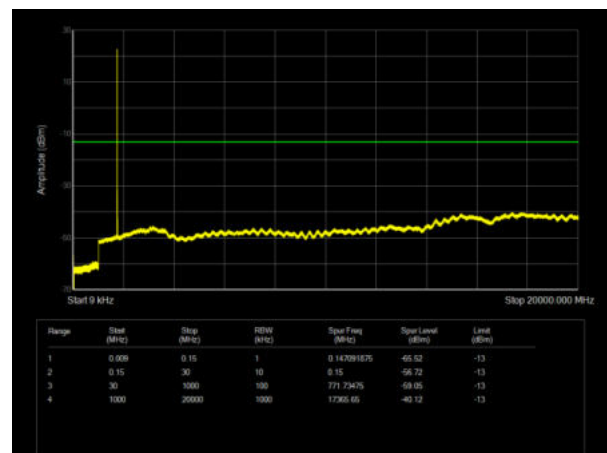
LTE Band 66 10MHz CH-Low 9kHz~20GHz



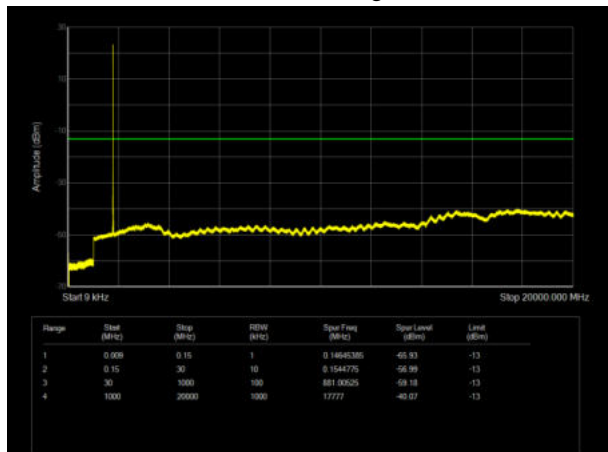
LTE Band 66 5MHz CH- Middle 9kHz~20GHz



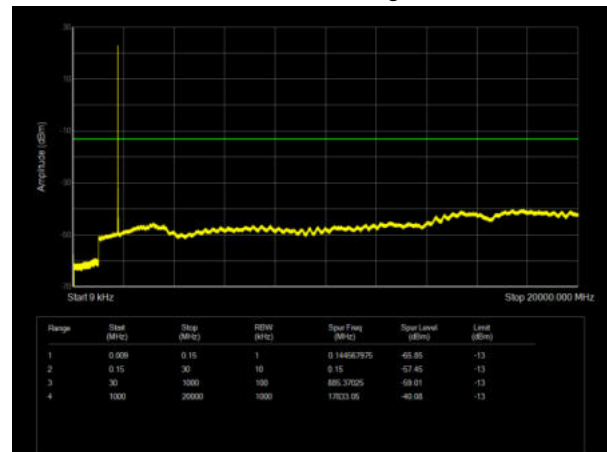
LTE Band 66 10MHz CH- Middle 9kHz~20GHz



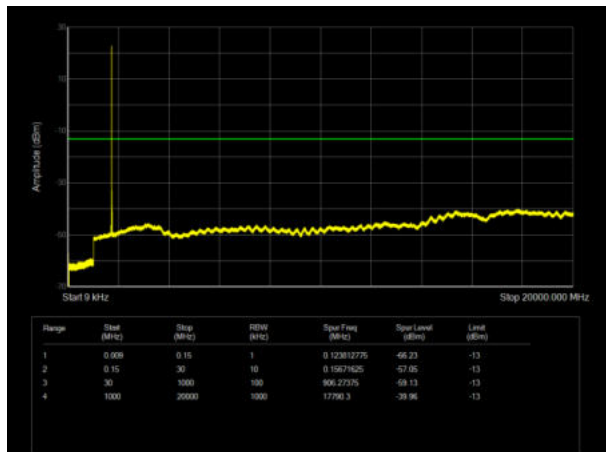
LTE Band 66 5MHz CH-High 9kHz~20GHz



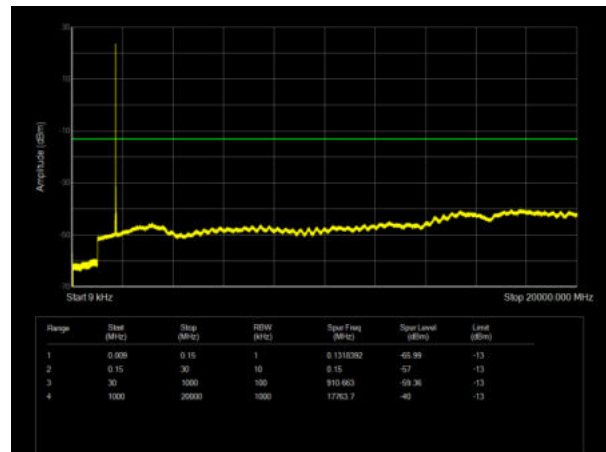
LTE Band 66 10MHz CH- High 9kHz~20GHz



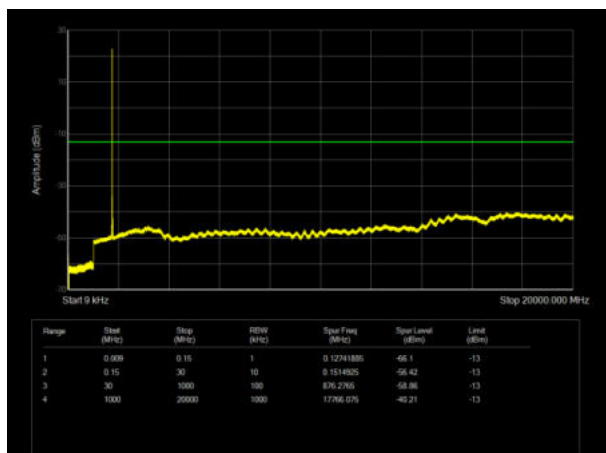
LTE Band 66 15MHz CH- Low 9kHz~20GHz



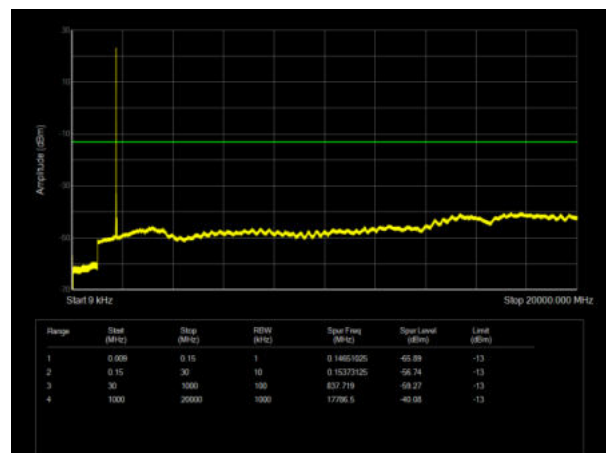
LTE Band 66 20MHz CH-Low 9kHz~20GHz



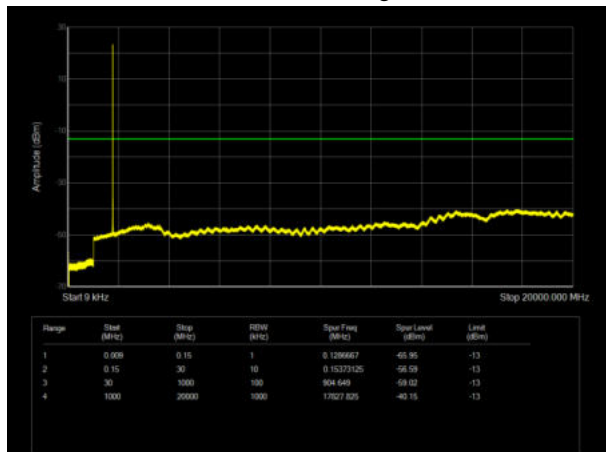
LTE Band 66 15MHz CH- Middle 9kHz~20GHz



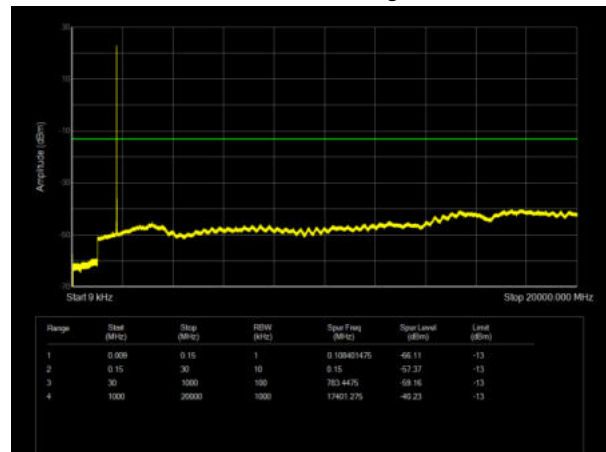
LTE Band 66 20MHz CH- Middle 9kHz~20GHz



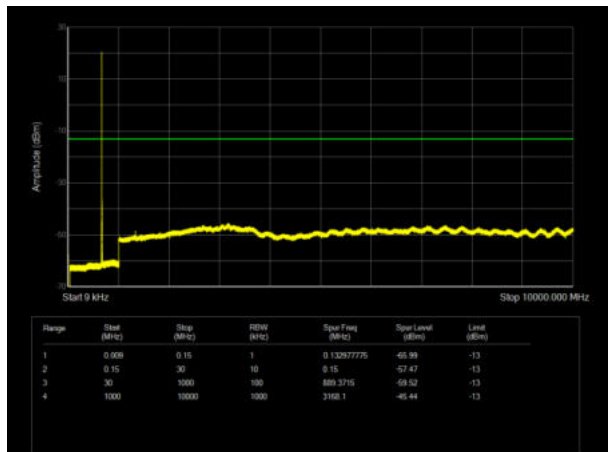
LTE Band 66 15MHz CH-High 9kHz~20GHz



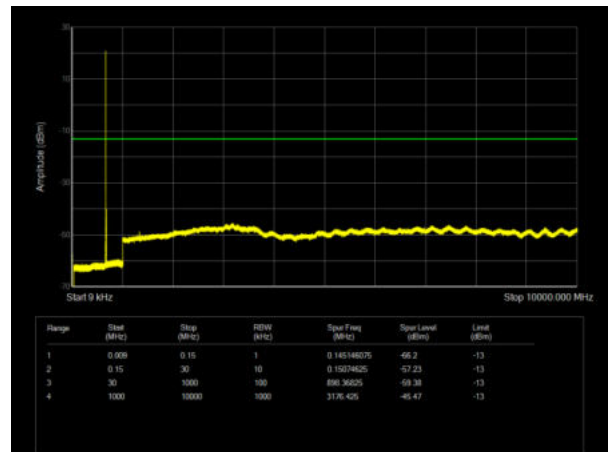
LTE Band 66 20MHz CH- High 9kHz~20GHz



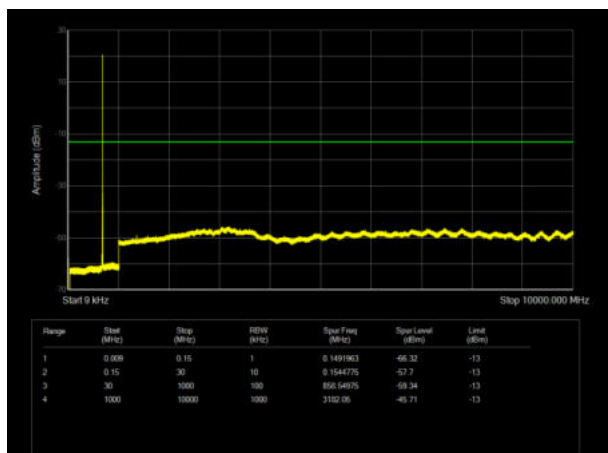
LTE Band 71 5MHz CH- Low 9kHz~10GHz



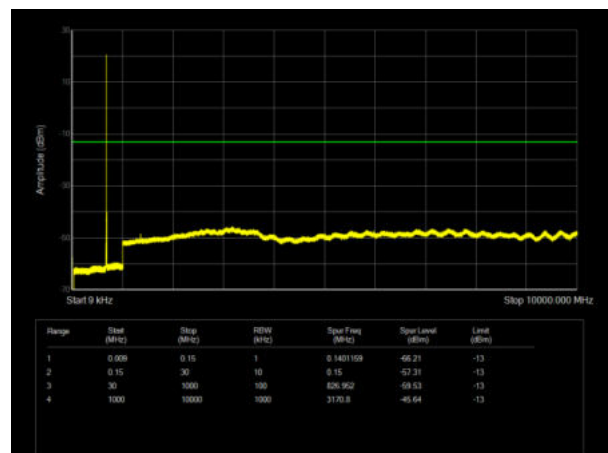
LTE Band 71 10MHz CH- Low 9kHz~10GHz



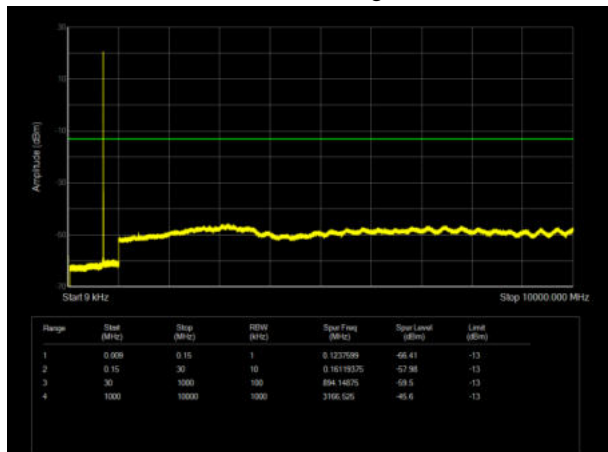
LTE Band 71 5MHz CH- Middle 9kHz~10GHz



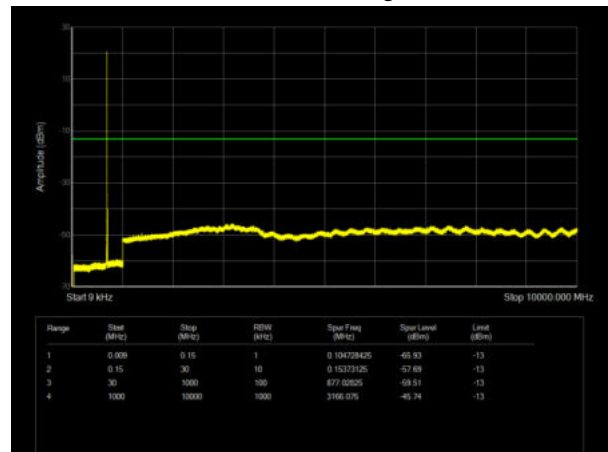
LTE Band 71 10MHz CH- Middle 9kHz~10GHz



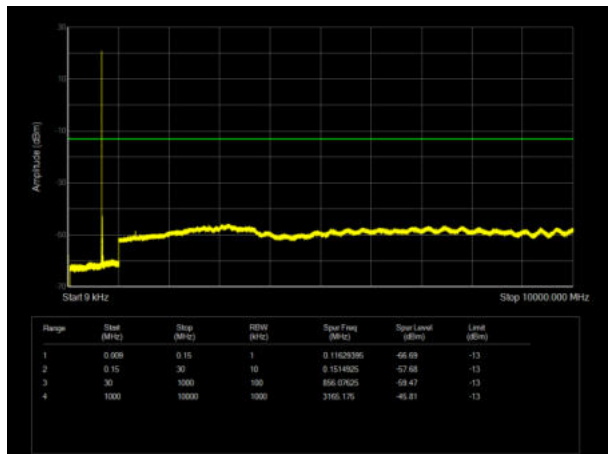
LTE Band 71 5MHz CH-High 9kHz~10GHz



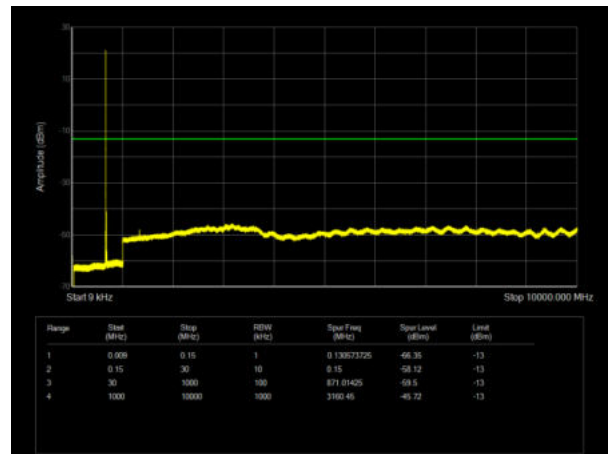
LTE Band 71 10MHz CH-High 9kHz~10GHz



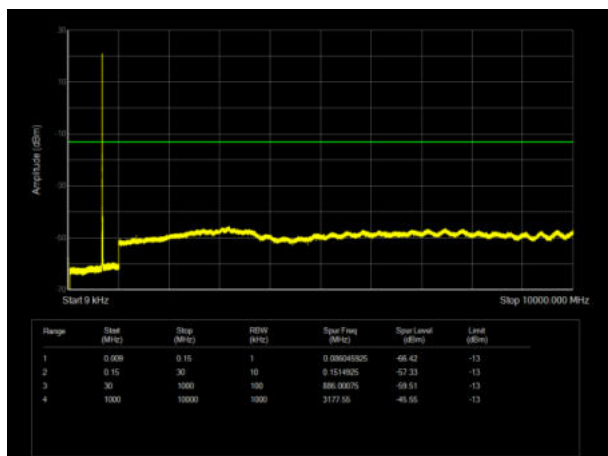
LTE Band 71 15MHz CH- Low 9kHz~10GHz



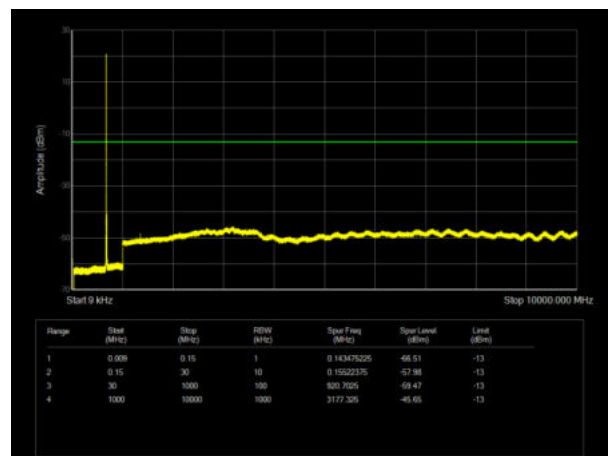
LTE Band 71 20MHz CH- Low 9kHz~10GHz



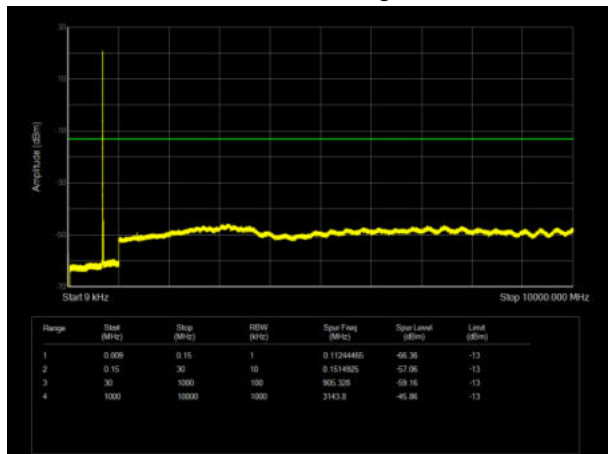
LTE Band 71 15MHz CH- Middle 9kHz~10GHz



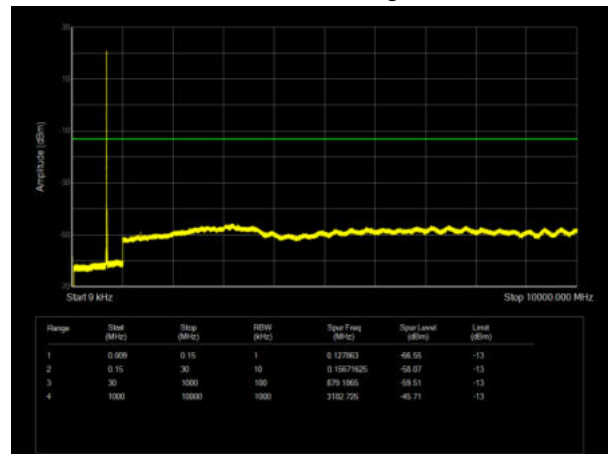
LTE Band 71 20MHz CH- Middle 9kHz~10GHz



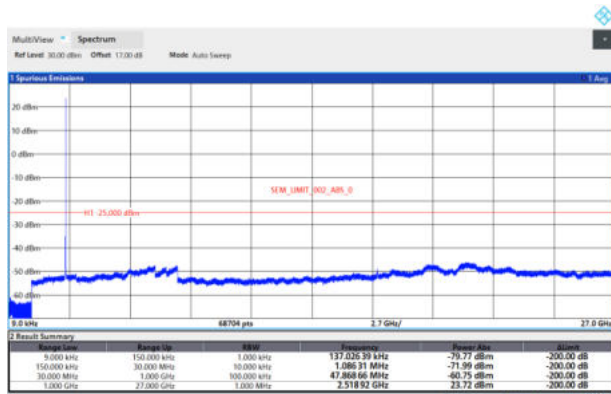
LTE Band 71 15MHz CH-High 9kHz~10GHz



LTE Band 71 20MHz CH- High 9kHz~10GHz

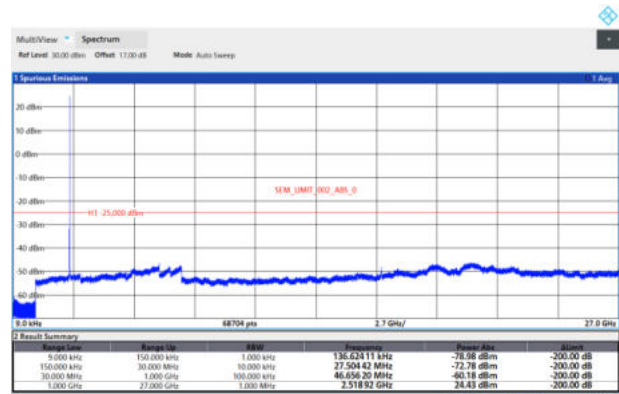


CA_7C QPSK 20MHz+10MHz CH- Low 9kHz~27GHz



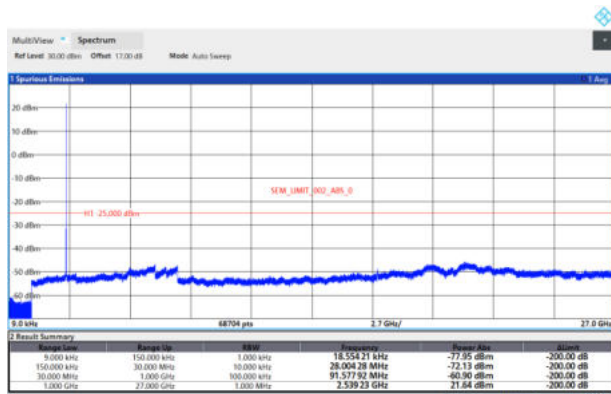
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CA_7C QPSK 20MHz+20MHz CH- Low 9kHz~27GHz



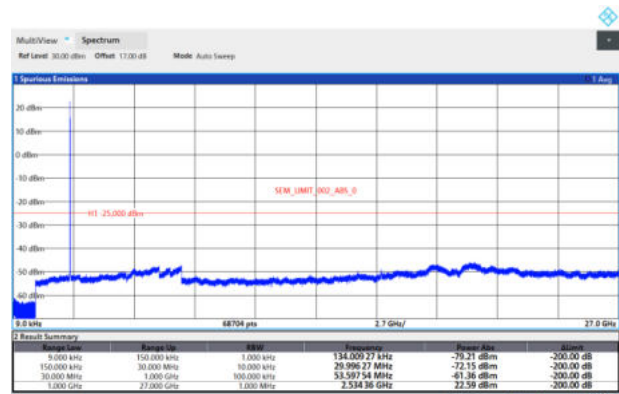
10:51:30 04.11.2020

CA_7C QPSK 20MHz+10MHz CH- Middle 9kHz~27GHz



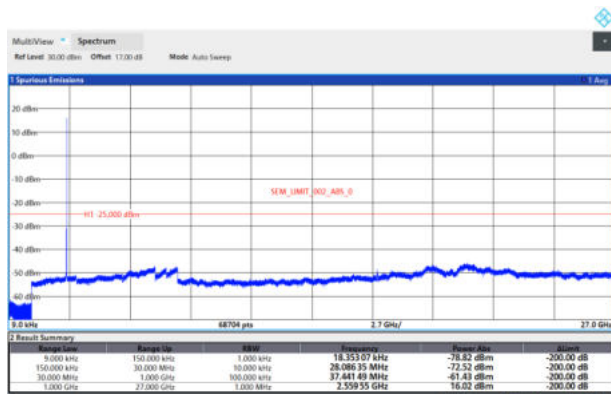
10:47:09 04.11.2020

CA_7C QPSK 20MHz+20MHz CH- Middle 9kHz~27GHz



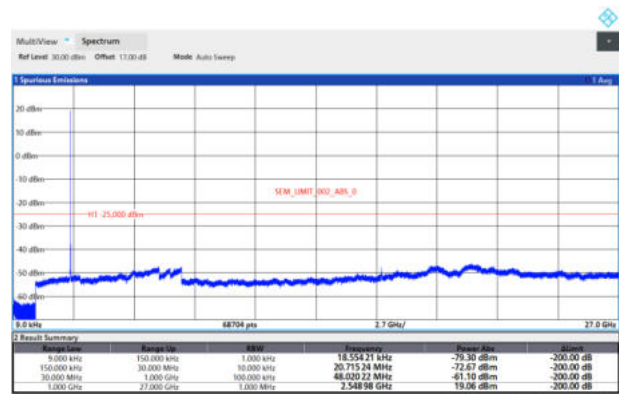
10:54:30 04.11.2020

CA_7C QPSK 20MHz+10MHz CH-High 9kHz~27GHz



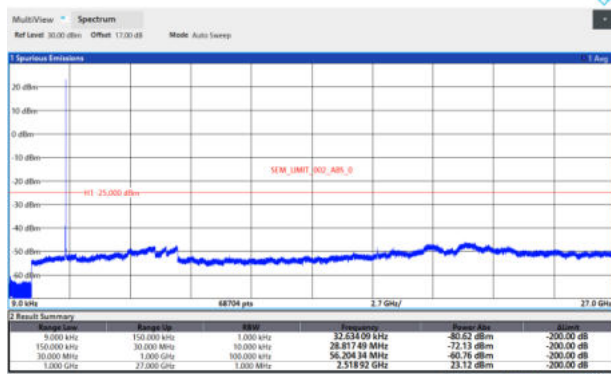
10:49:18 04.11.2020

CA_7C QPSK 20MHz+20MHz CH-High 9kHz~27GHz



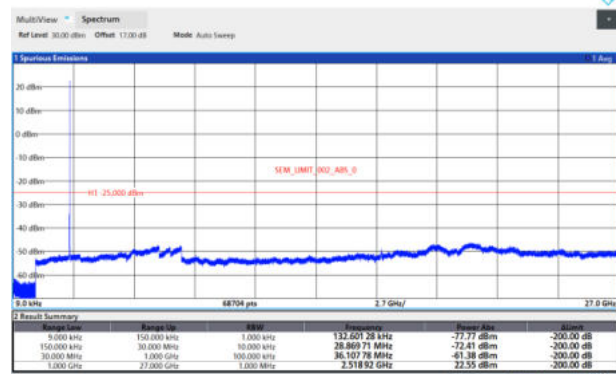
10:56:37 04.11.2020

CA_7C 16QAM 20MHz+10MHz CH- Low
9kHz~27GHz



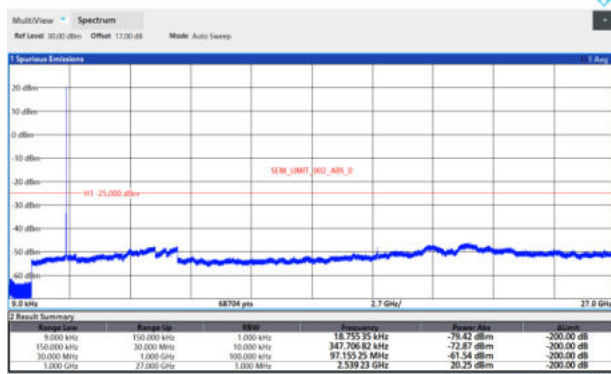
10:45:28 04.11.2020

CA_7C 16QAM 20MHz+20MHz CH- Low
9kHz~27GHz



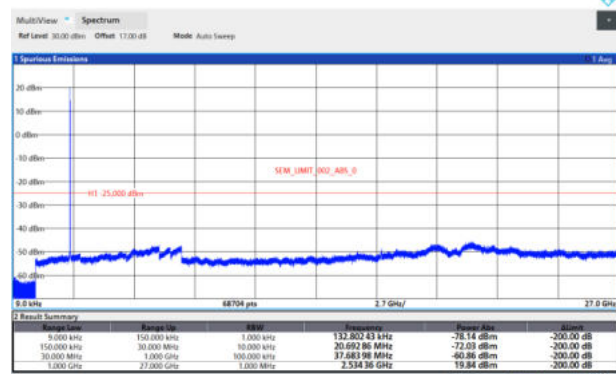
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CA_7C 16QAM 20MHz+10MHz CH- Middle
9kHz~27GHz



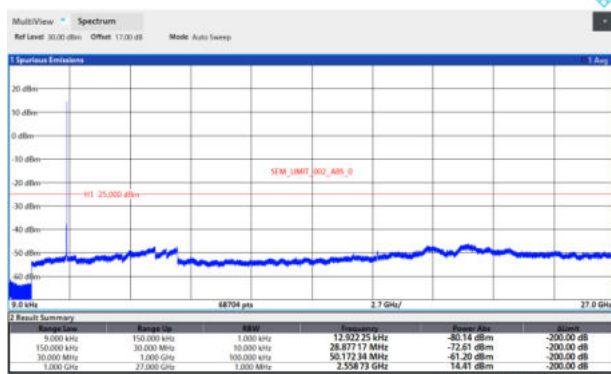
10:47:34 04.11.2020

CA_7C 16QAM 20MHz+20MHz CH- Middle
9kHz~27GHz



10:50:00 04.11.2020

CA_7C 16QAM 20MHz+10MHz CH-High
9kHz~27GHz



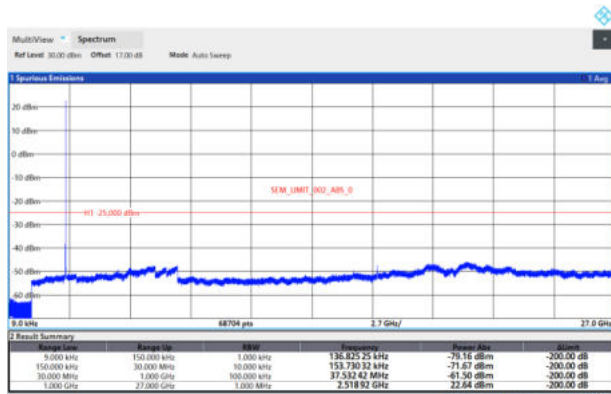
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CA_7C 16QAM 20MHz+20MHz CH-High
9kHz~27GHz



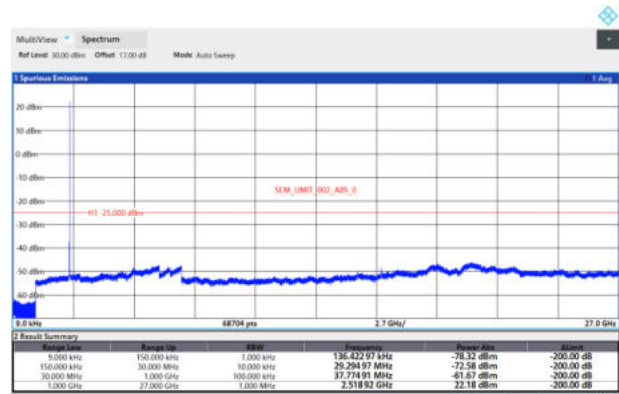
10:57:08 04.11.2020

CA_7C 64QAM 20MHz+10MHz CH- Low
9kHz~27GHz



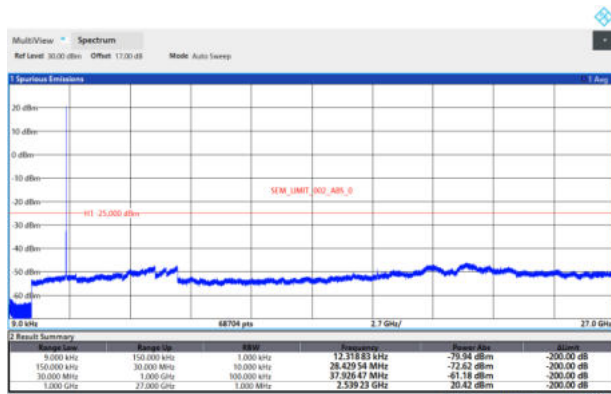
10:45:53 04.11.2020

CA_7C 64QAM 20MHz+20MHz CH- Low
9kHz~27GHz



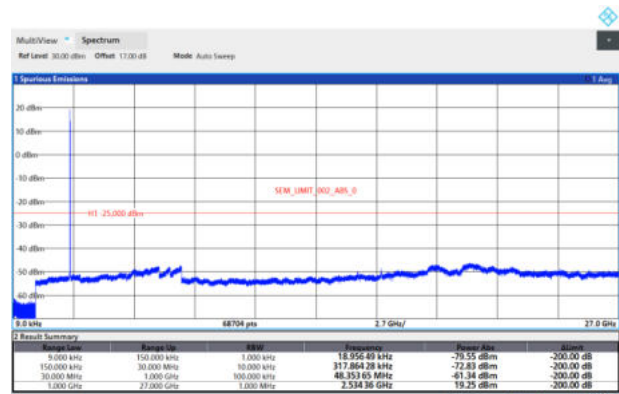
10:52:22 04.11.2020

CA_7C 64QAM 20MHz+10MHz CH- Middle
9kHz~27GHz



10:47:52 04.11.2020

CA_7C 64QAM 20MHz+20MHz CH- Middle
9kHz~27GHz



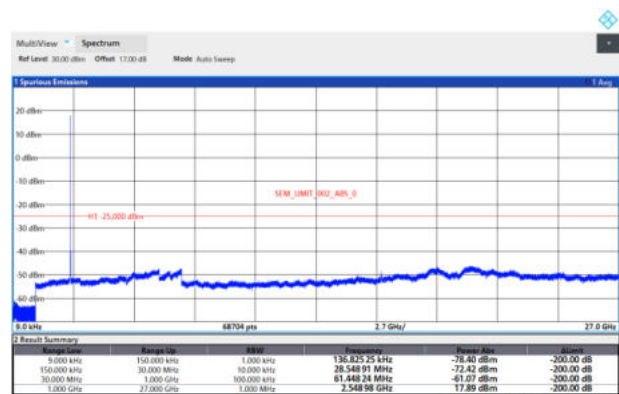
10:50:22 04.11.2020

CA_7C 64QAM 20MHz+10MHz CH-High
9kHz~27GHz



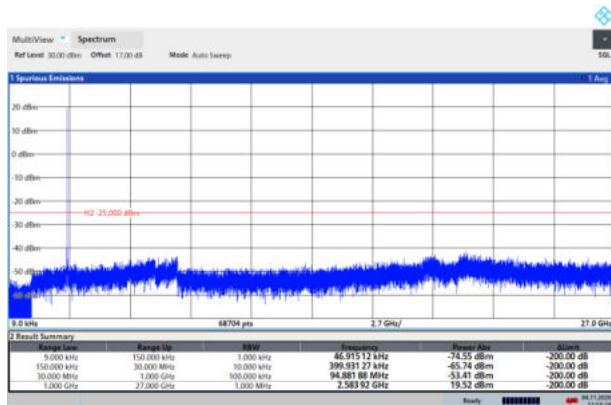
10:50:10 04.11.2020

CA_7C 64QAM 20MHz+20MHz CH-High
9kHz~27GHz



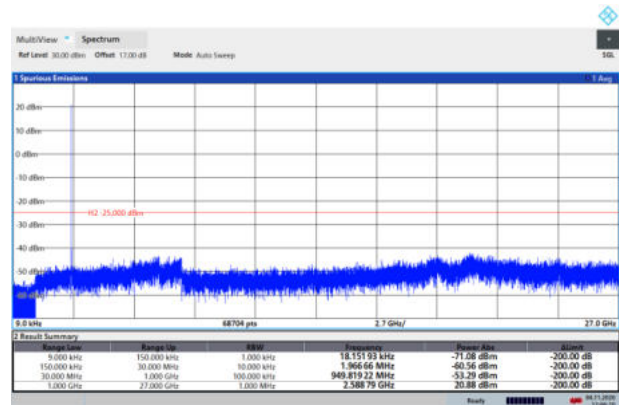
10:57:21 04.11.2020

CA_38C QPSK 15MHz+15MHz CH- Low 9kHz~27GHz



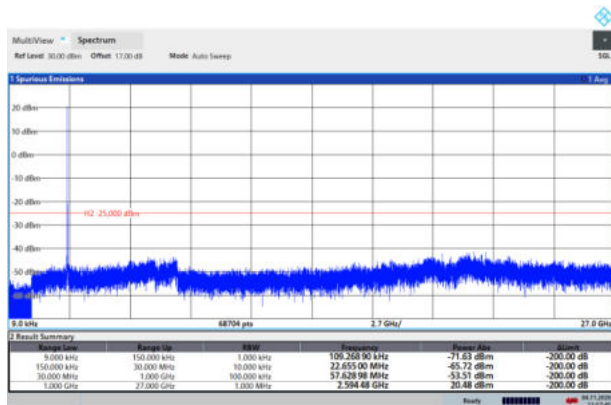
11:54:24 04.11.2020

CA_38C QPSK 20MHz+20MHz CH- Low 9kHz~27GHz



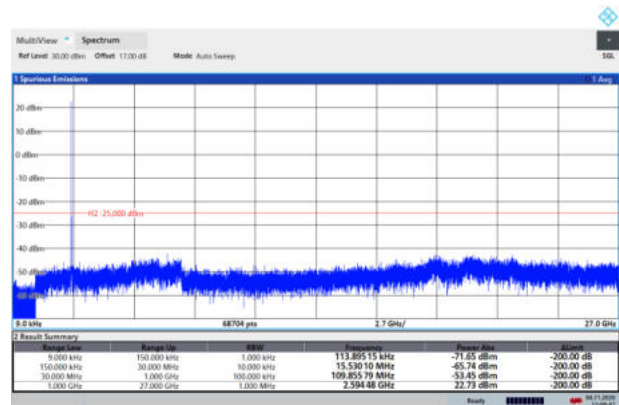
12:06:11 04.11.2020

CA_38C QPSK 15MHz+15MHz CH- Middle 9kHz~27GHz



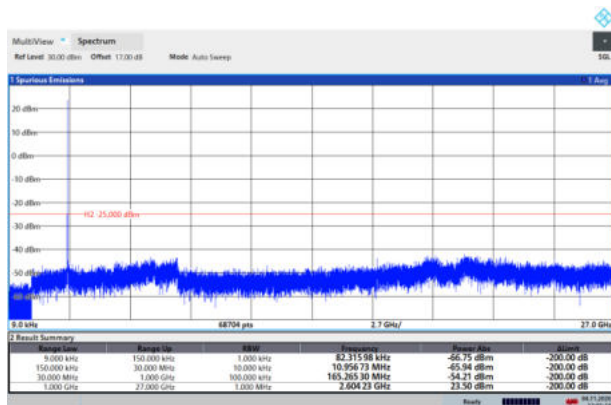
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CA_38C QPSK 20MHz+20MHz CH- Middle 9kHz~27GHz



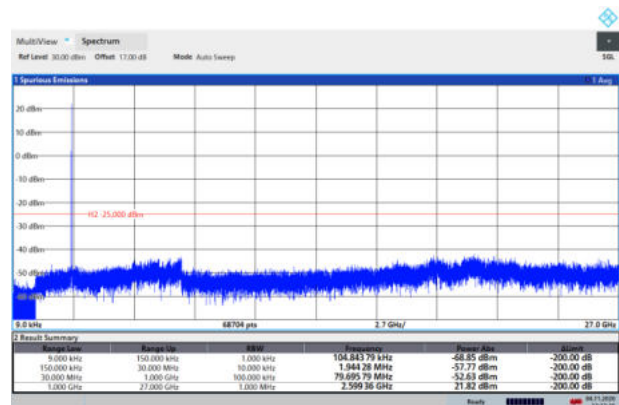
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CA_38C QPSK 15MHz+15MHz CH-High 9kHz~27GHz



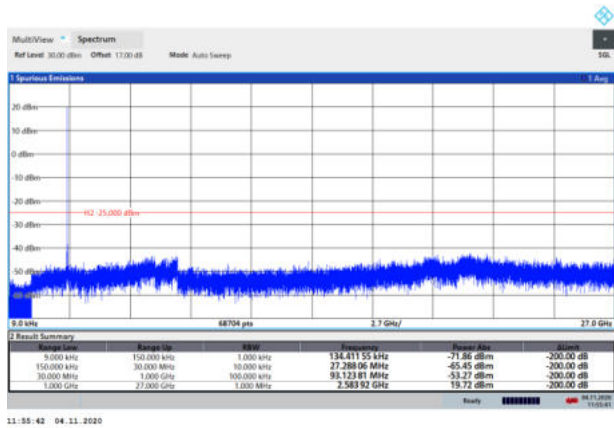
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CA_38C QPSK 20MHz+20MHz CH-High 9kHz~27GHz



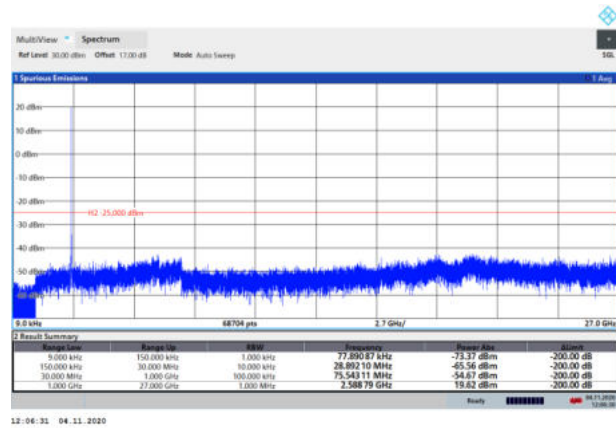
12:12:16 04.11.2020

CA_38C 16QAM 15MHz+15MHz CH- Low 9kHz~27GHz



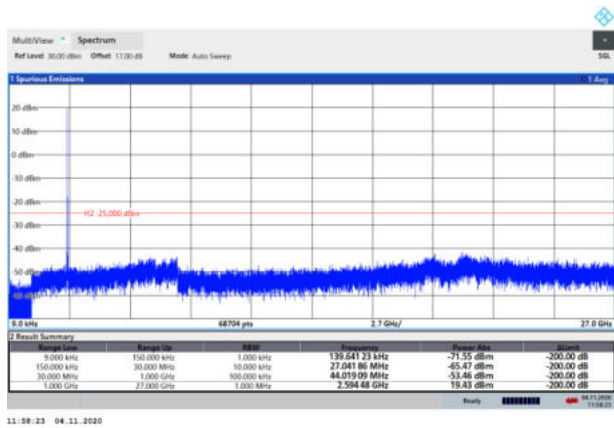
11:55:42 04.11.2020

CA_38C 16QAM 20MHz+20MHz CH- Low 9kHz~27GHz



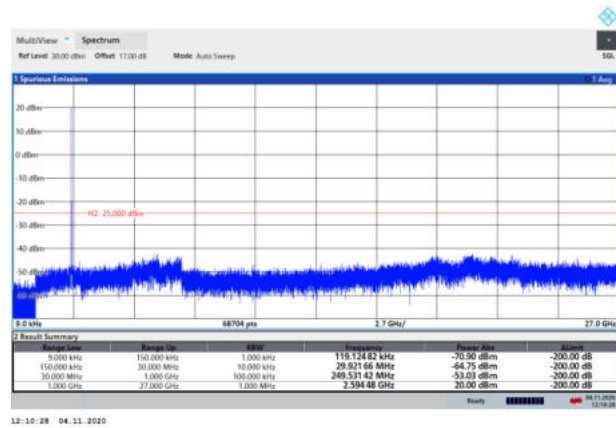
12:06:31 04.11.2020

CA_38C 16QAM 15MHz+15MHz CH- Middle 9kHz~27GHz



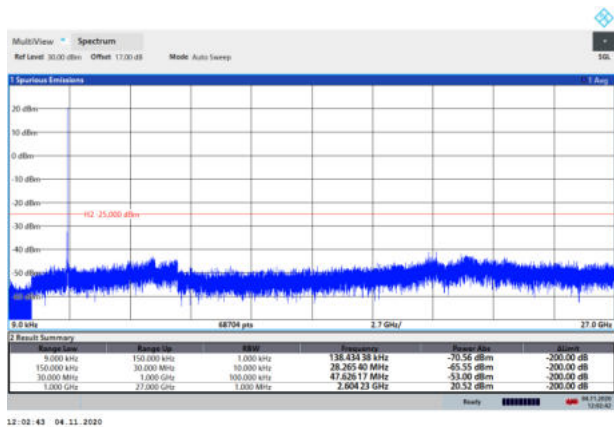
11:59:23 04.11.2020

CA_38C 16QAM 20MHz+20MHz CH- Middle 9kHz~27GHz



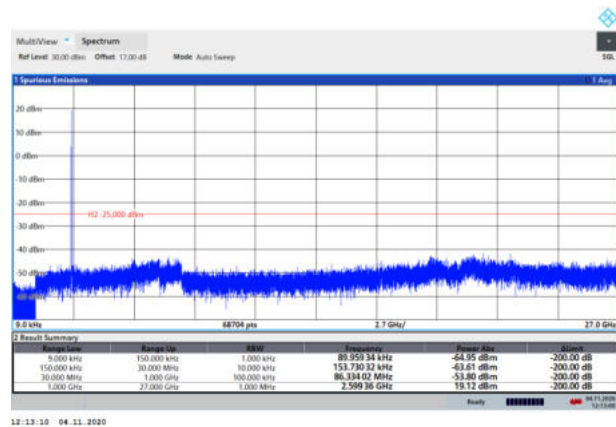
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CA_38C 16QAM 15MHz+15MHz CH-High 9kHz~27GHz



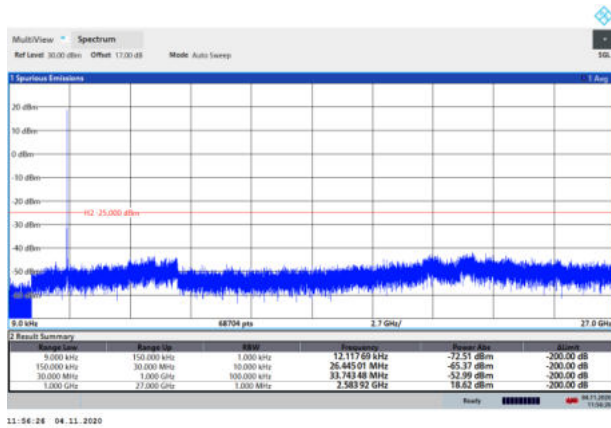
12:02:43 04.11.2020

CA_38C 16QAM 20MHz+20MHz CH-High 9kHz~27GHz



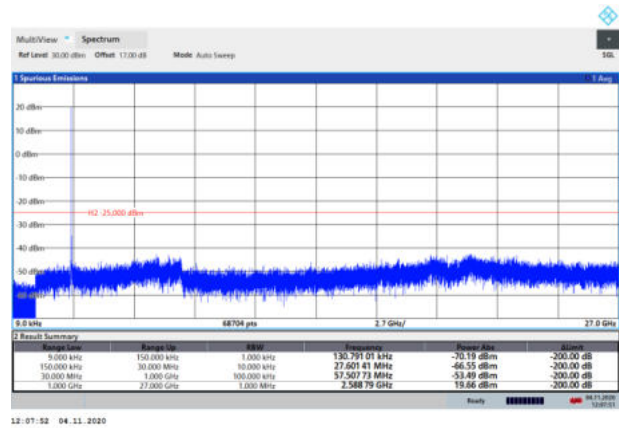
12:13:10 04.11.2020

CA_38C 64QAM 15MHz+15MHz CH- Low
9kHz~27GHz



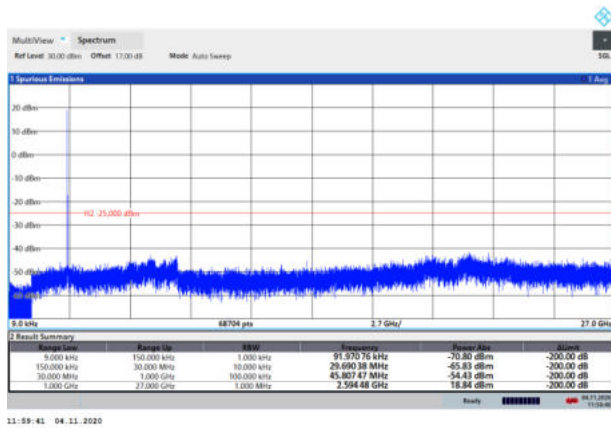
11:56:28 04.11.2020

CA_38C 64QAM 20MHz+20MHz CH- Low
9kHz~27GHz



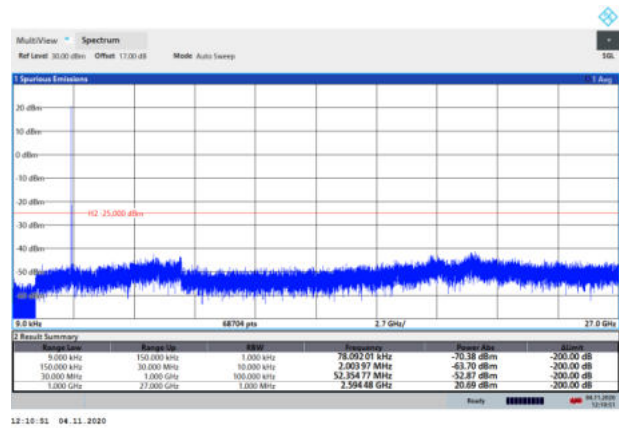
12:07:52 04.11.2020

CA_38C 64QAM 15MHz+15MHz CH- Middle
9kHz~27GHz



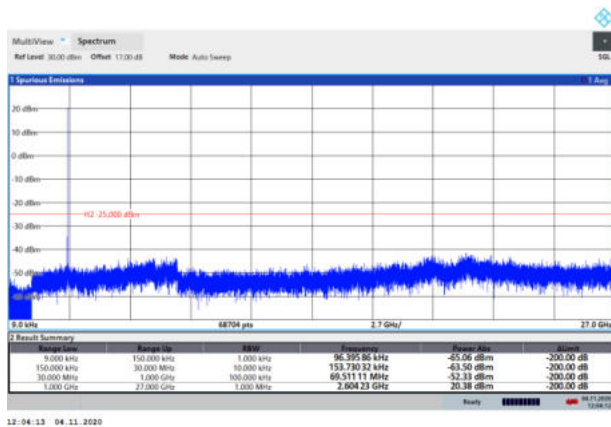
11:59:42 04.11.2020

CA_38C 64QAM 20MHz+20MHz CH- Middle
9kHz~27GHz



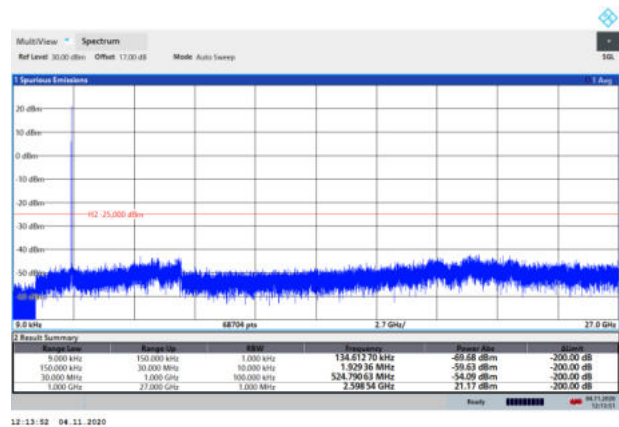
12:10:51 04.11.2020

CA_38C 64QAM 15MHz+15MHz CH-High
9kHz~27GHz



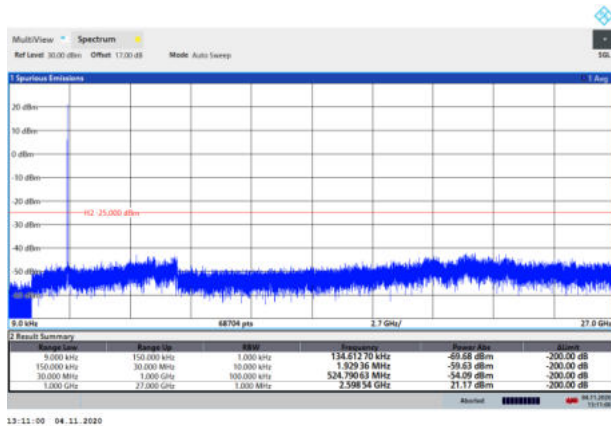
12:04:13 04.11.2020

CA_38C 64QAM 20MHz+20MHz CH-High
9kHz~27GHz



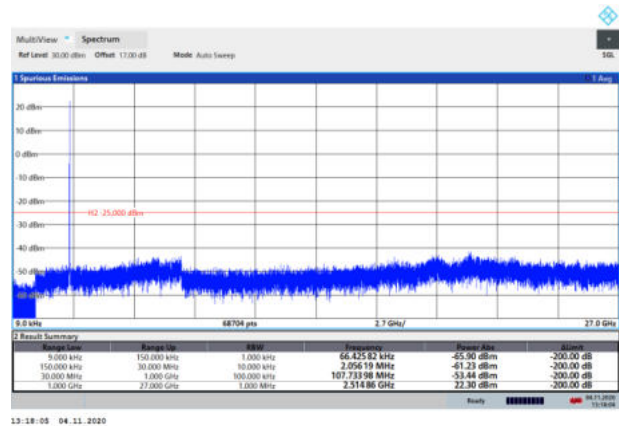
12:13:52 04.11.2020

CA_41C QPSK 20MHz+5MHz CH- Low 9kHz~27GHz



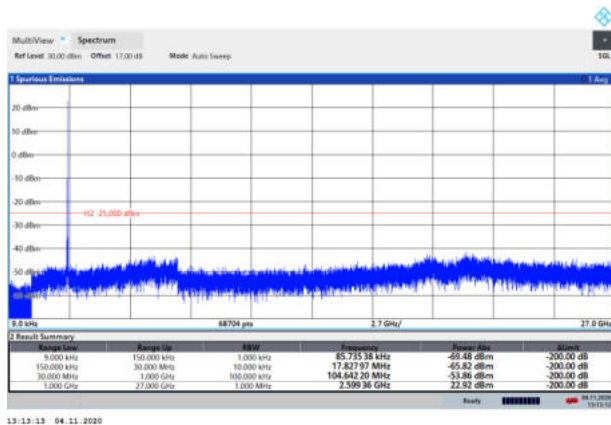
13-11-05 04.11.2020

CA_41C QPSK 20MHz+20MHz CH- Low 9kHz~27GHz



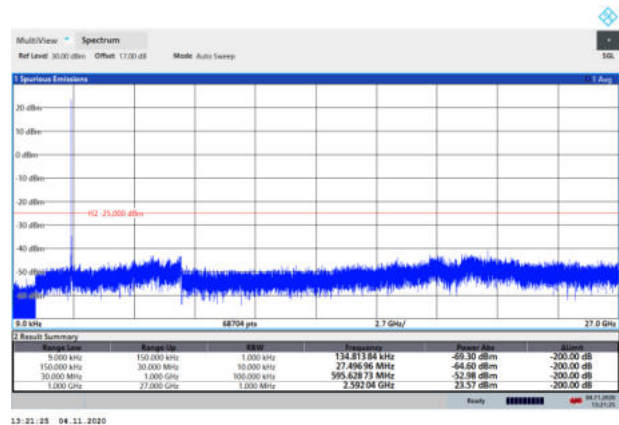
13-11-05 04.11.2020

CA_41C QPSK 20MHz+5MHz CH- Middle 9kHz~27GHz



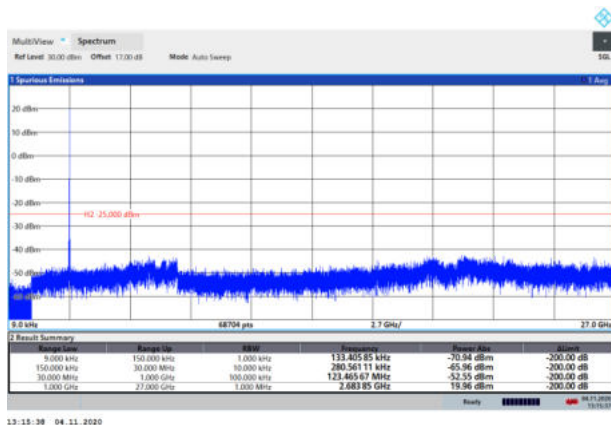
13-13-13 04.11.2020

CA_41C QPSK 20MHz+20MHz CH- Middle 9kHz~27GHz



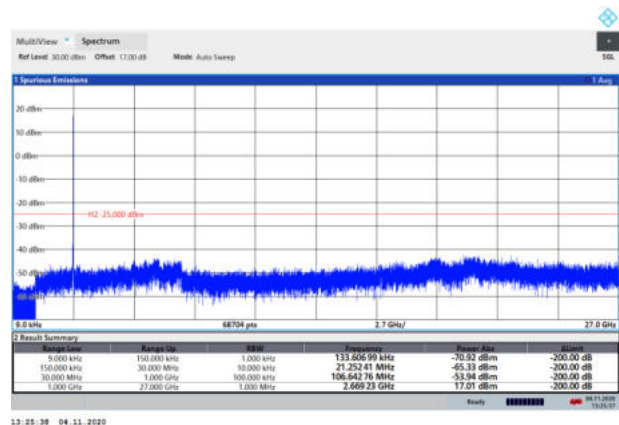
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CA_41C QPSK 20MHz+5MHz CH-High 9kHz~27GHz



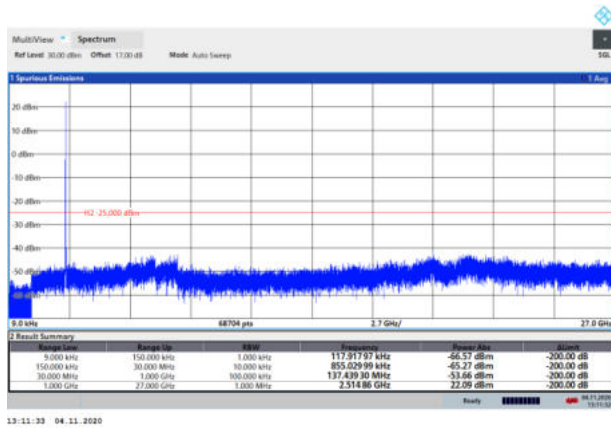
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CA_41C QPSK 20MHz+20MHz CH-High 9kHz~27GHz



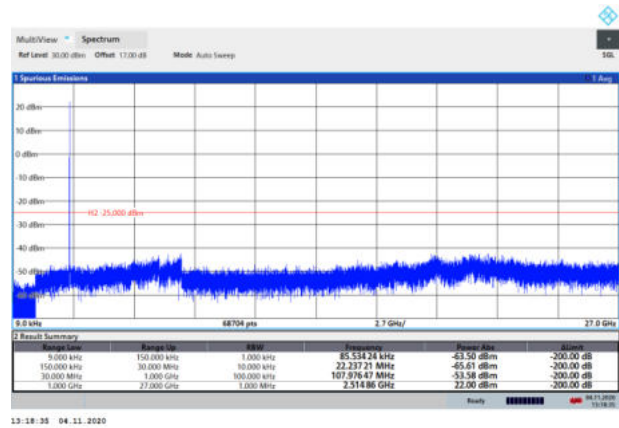
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CA_41C 16QAM 20MHz+5MHz CH- Low 9kHz~27GHz



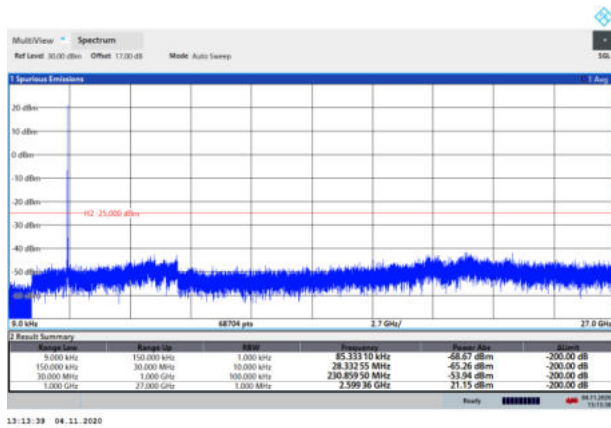
13-11-33 04.11.2020

CA_41C 16QAM 20MHz+20MHz CH- Low 9kHz~27GHz



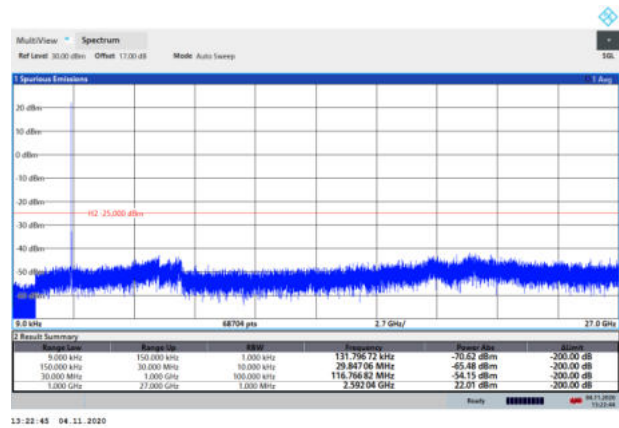
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CA_41C 16QAM 20MHz+5MHz CH- Middle 9kHz~27GHz



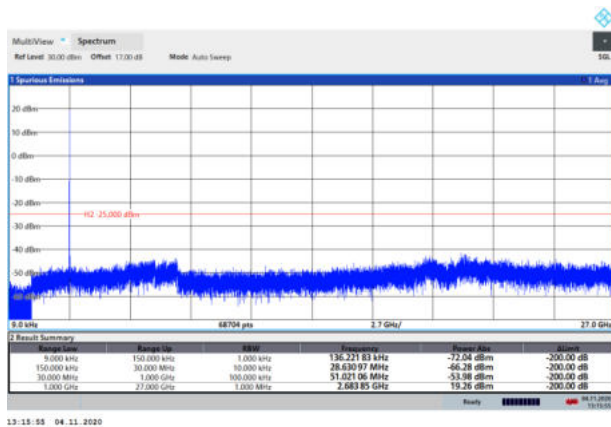
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CA_41C 16QAM 20MHz+20MHz CH- Middle 9kHz~27GHz



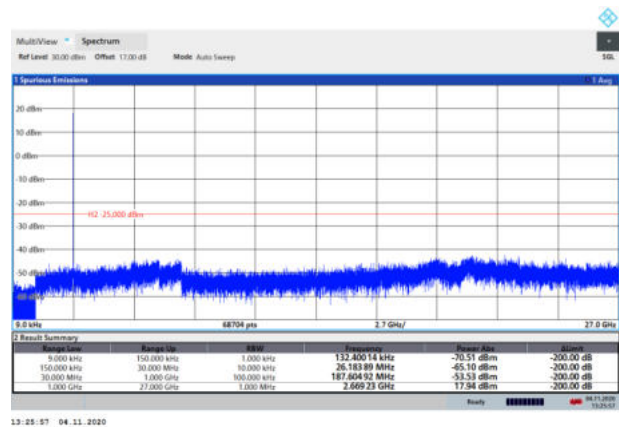
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CA_41C 16QAM 20MHz+5MHz CH-High 9kHz~27GHz



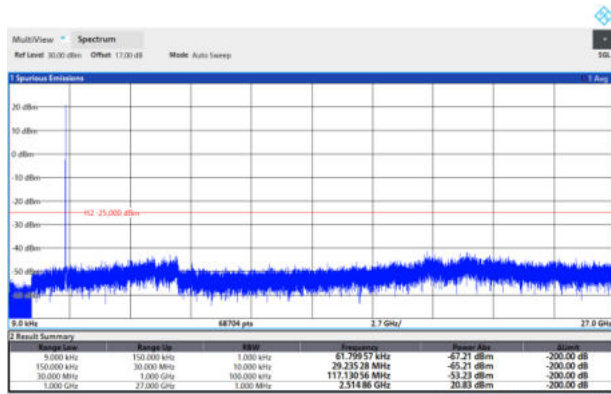
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CA_41C 16QAM 20MHz+20MHz CH-High 9kHz~27GHz



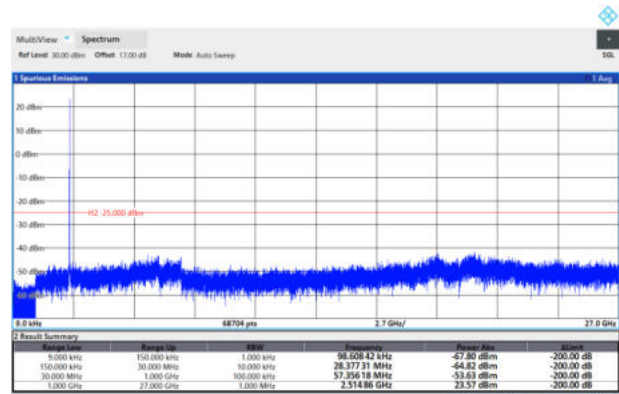
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CA_41C 64QAM 20MHz+5MHz CH- Low 9kHz~27GHz



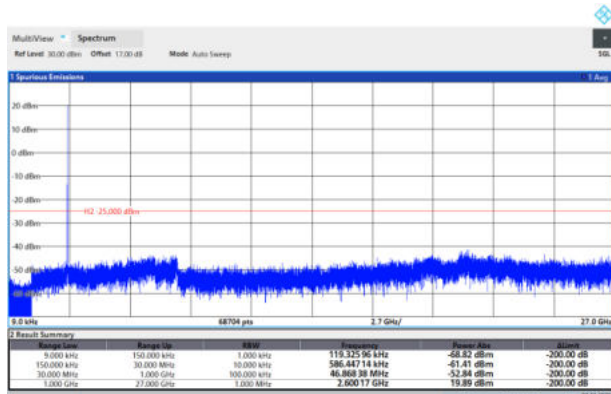
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CA_41C 64QAM 20MHz+20MHz CH- Low 9kHz~27GHz



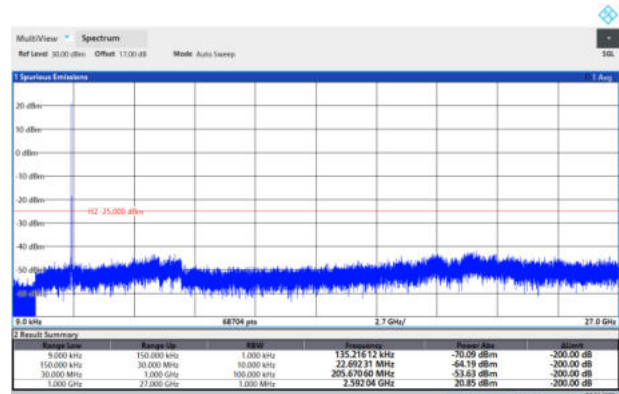
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CA_41C 64QAM 20MHz+5MHz CH- Middle



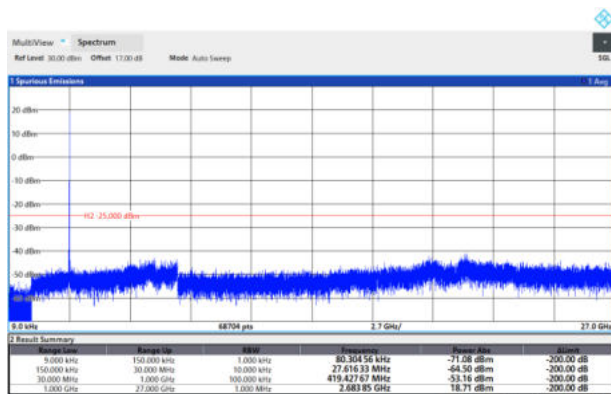
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CA_41C 64QAM 20MHz+20MHz CH- Middle



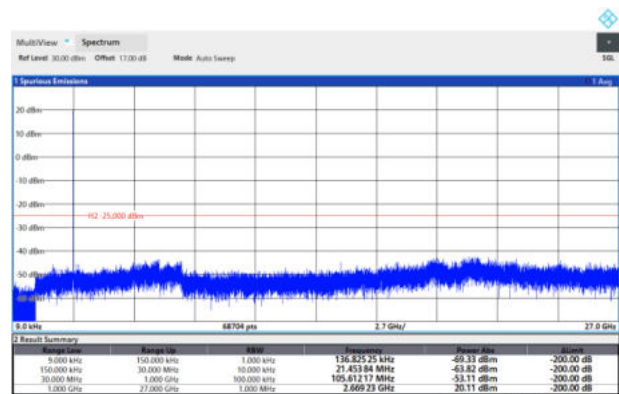
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CA_41C 64QAM 20MHz+5MHz CH-High 9kHz~27GHz



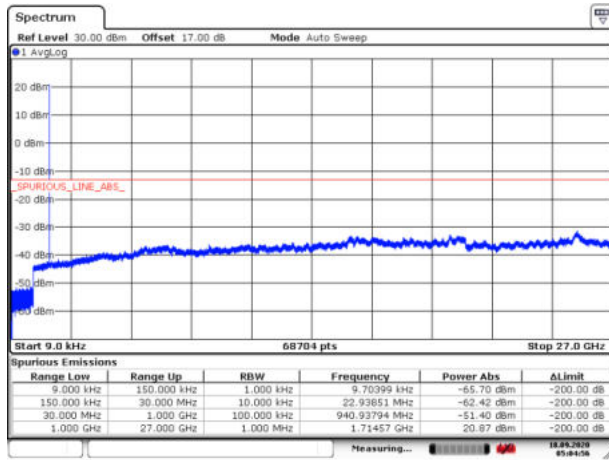
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CA_41C 64QAM 20MHz+20MHz CH-High 9kHz~27GHz



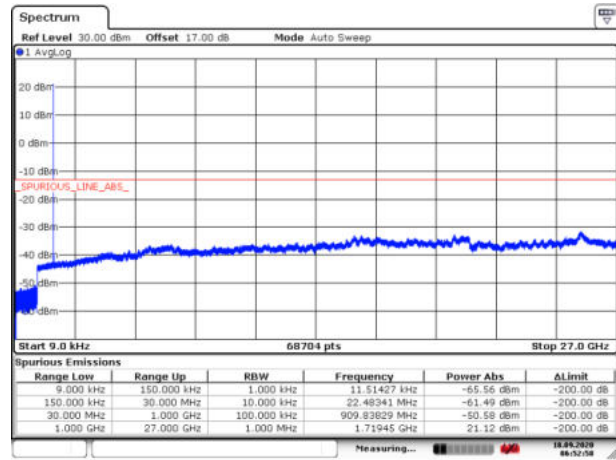
13:26:41 04.11.2020

CA_66B QPSK 5MHz+5MHz CH- Low
9kHz~27GHz



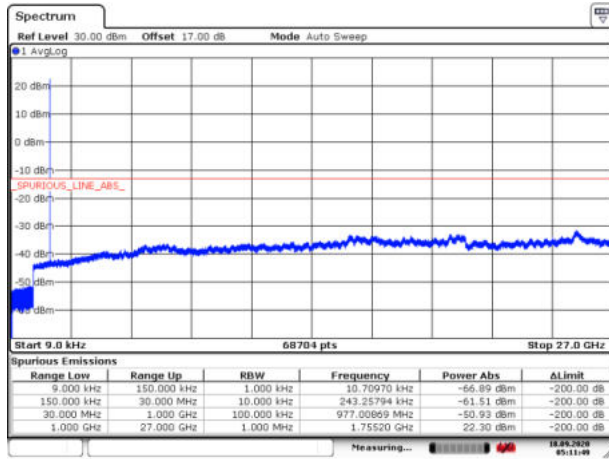
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CA_66B QPSK 10MHz+10MHz CH- Low
9kHz~27GHz



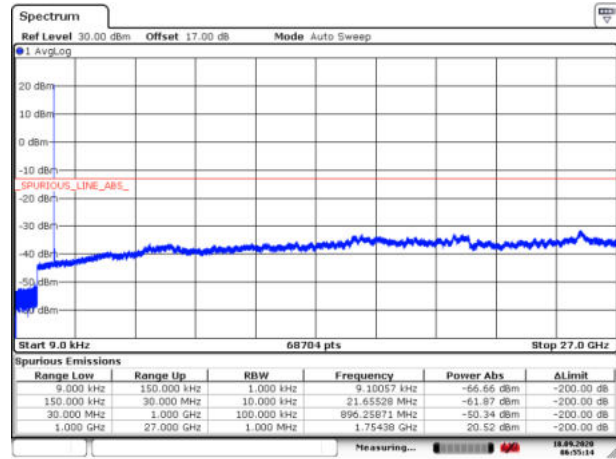
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CA_66B QPSK 5MHz+5MHz CH- Middle
9kHz~27GHz



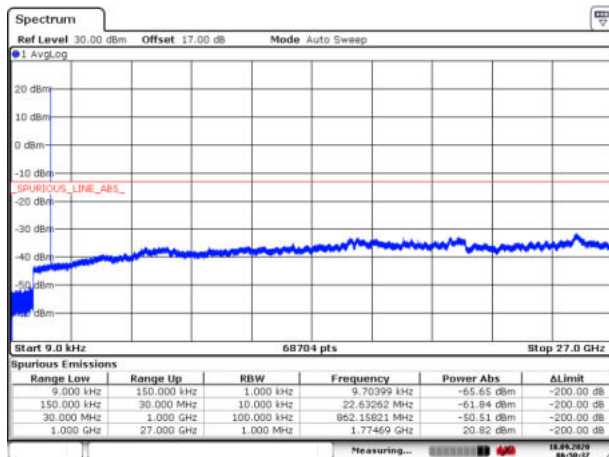
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CA_66B QPSK 10MHz+10MHz CH- Middle
9kHz~27GHz



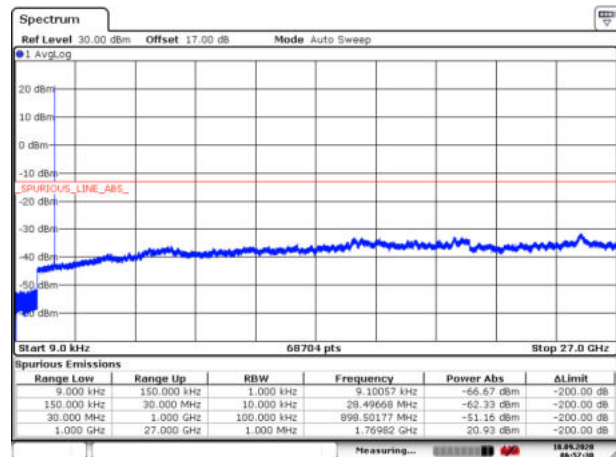
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CA_66B QPSK 5MHz+5MHz CH-High
9kHz~27GHz



Date: 18 SEP 2020 06:50:37

CA_66B QPSK 10MHz+10MHz CH-High
9kHz~27GHz



Date: 18 SEP 2020 06:57:30