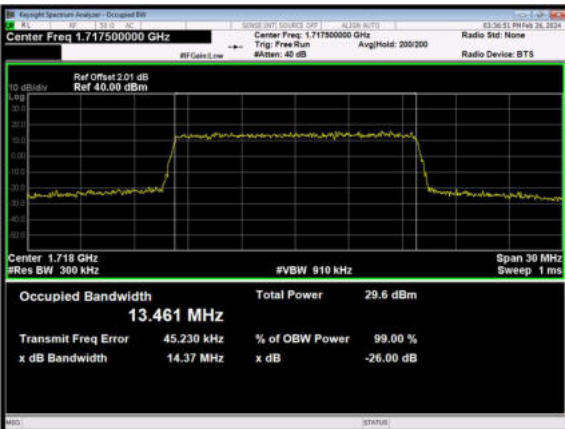
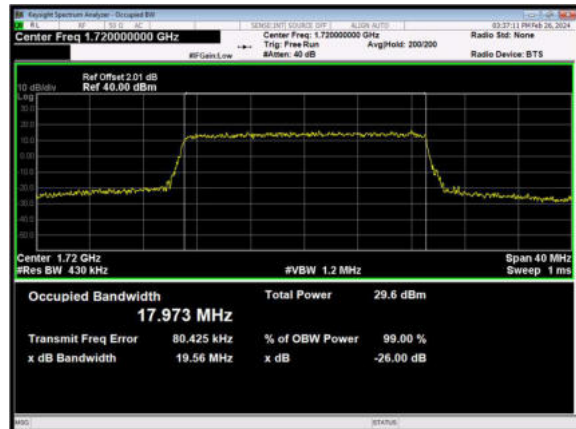


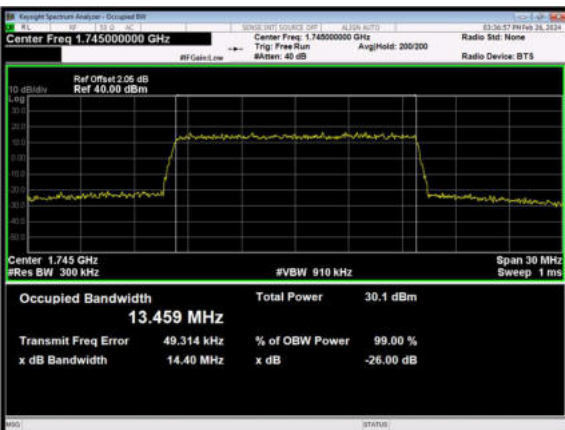
LTE Band 66 16QAM 15MHz CH-Low



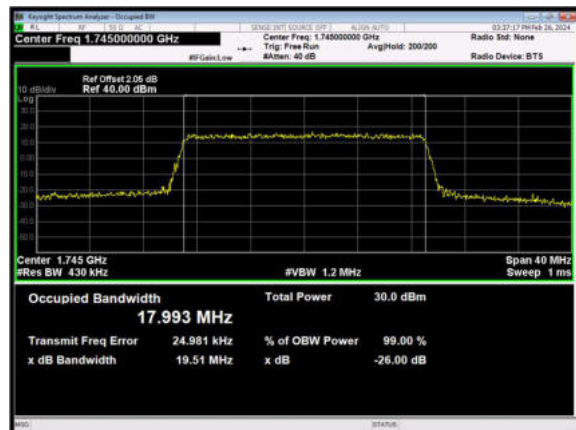
LTE Band 66 16QAM 20MHz CH-Low



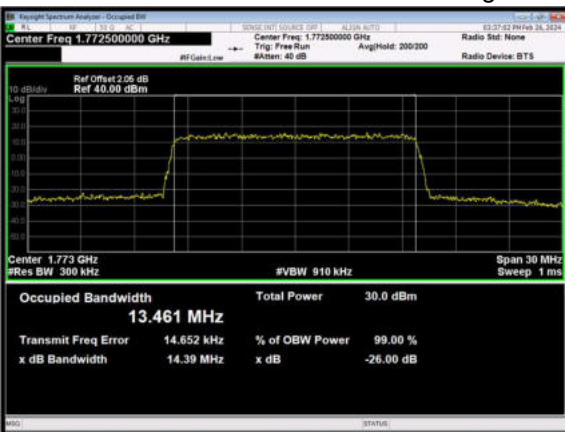
LTE Band 66 16QAM 15MHz CH-Middle



LTE Band 66 16QAM 20MHz CH-Middle



LTE Band 66 16QAM 15MHz CH-High

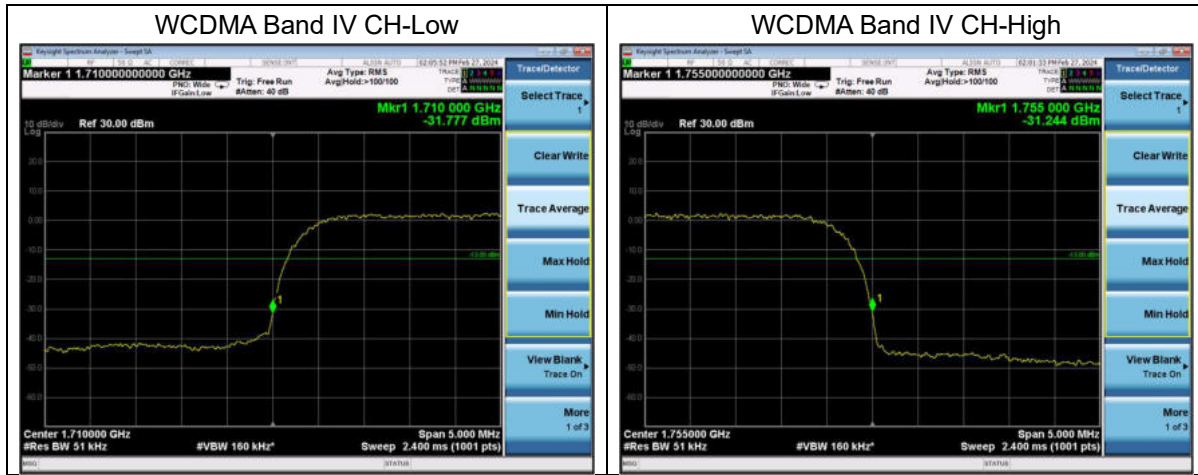


LTE Band 66 16QAM 20MHz CH-High

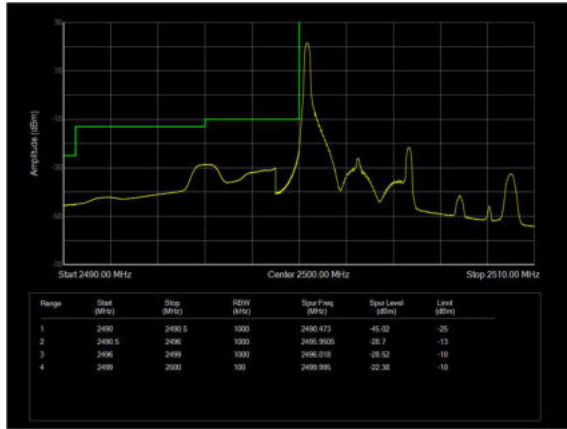


6.3 Band Edge Compliance

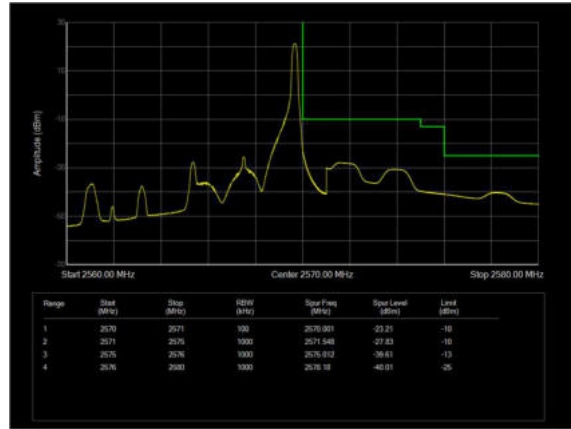
All the test traces in the plots shows the test results clearly.



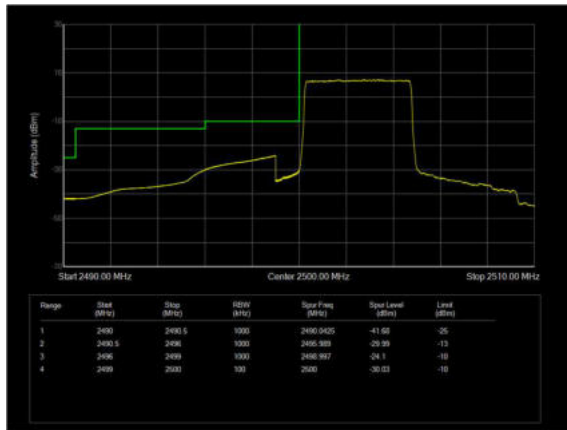
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



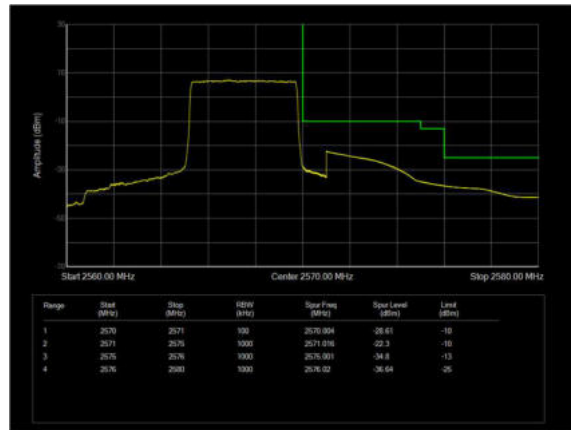
LTE Band 7 QPSK 5MHz CH-High, 1 RB



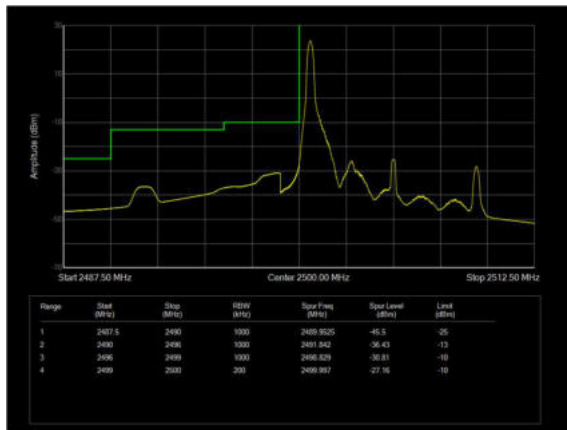
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



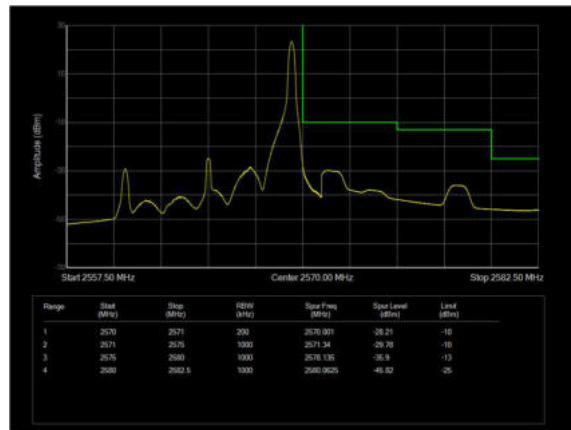
LTE Band 7 QPSK 5MHz CH-High, 100%RB



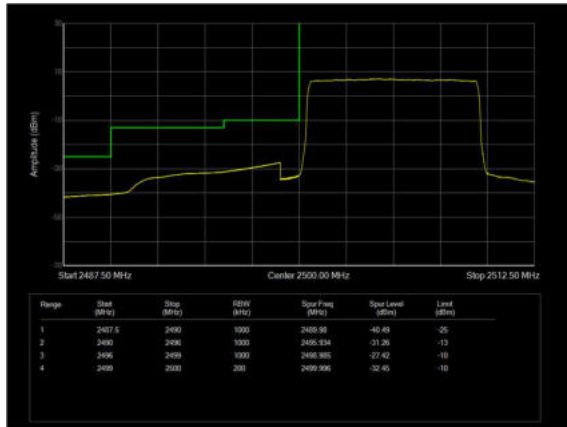
LTE Band 7 QPSK 10MHz CH-Low, 1 RB



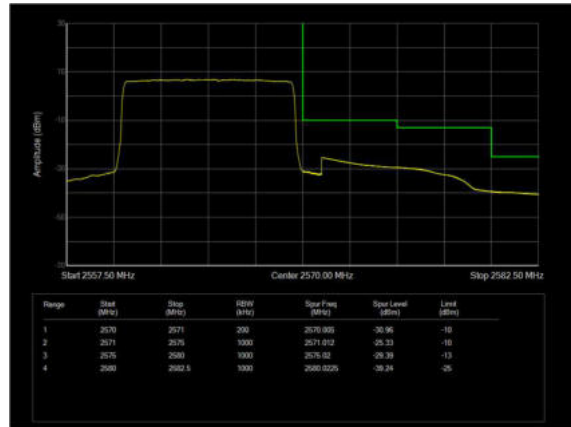
LTE Band 7 QPSK 10MHz CH-High, 1 RB



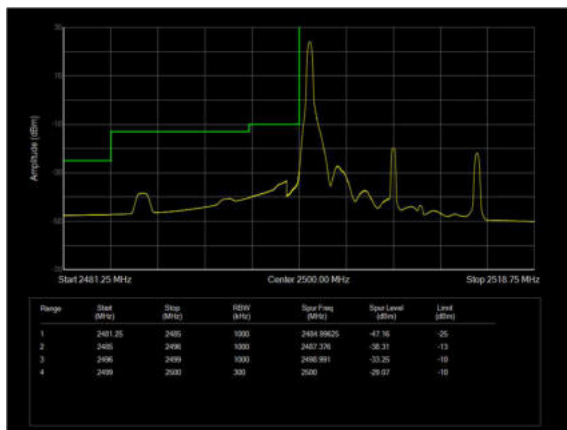
LTE Band 7 QPSK 10MHz CH-Low, 100%RB



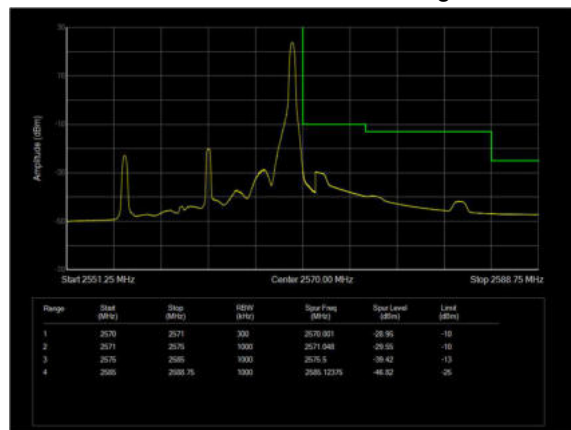
LTE Band 7 QPSK 10MHz CH-High, 100%RB



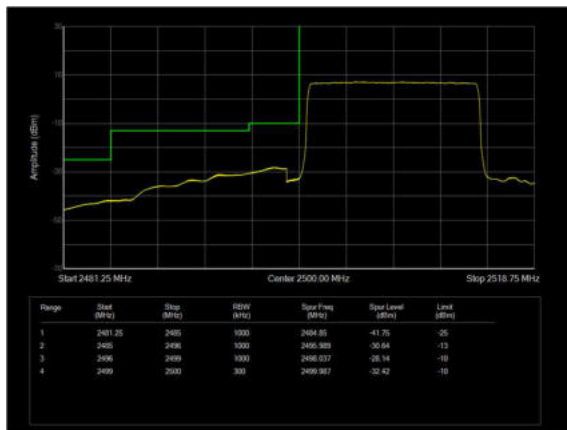
LTE Band 7 QPSK 15MHz CH-Low, 1 RB



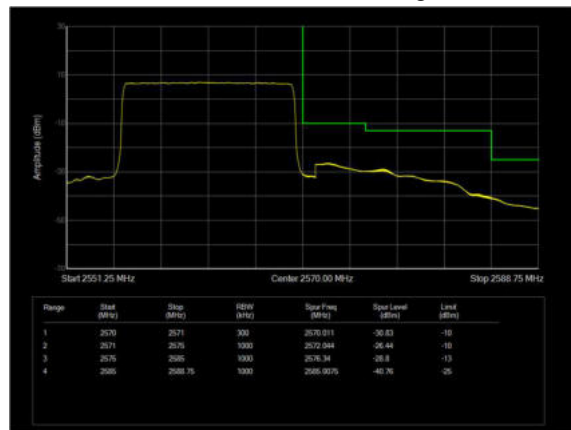
LTE Band 7 QPSK 15MHz CH-High, 1 RB



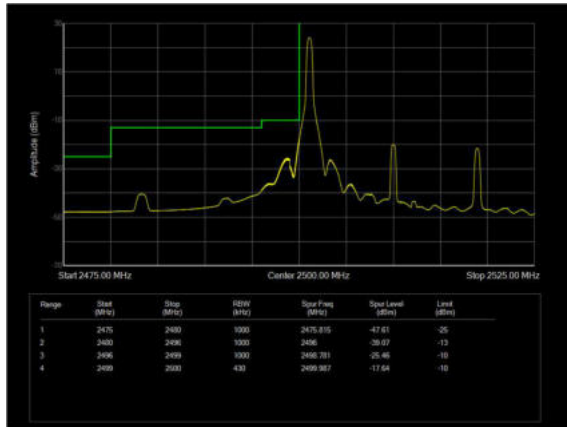
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



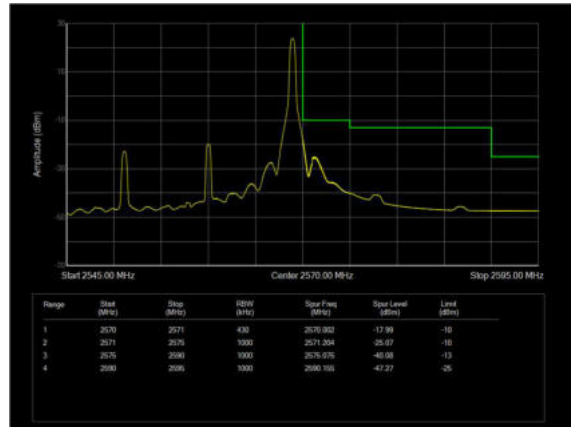
LTE Band 7 QPSK 15MHz CH-High, 100%RB



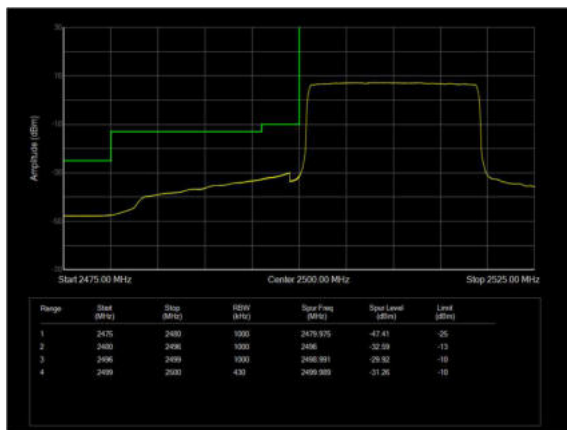
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



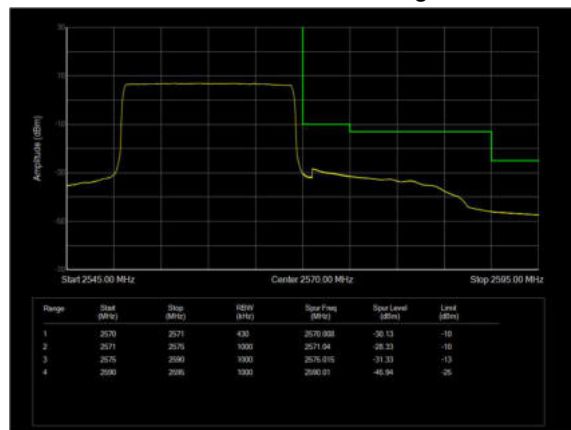
LTE Band 7 QPSK 20MHz CH-High, 1 RB



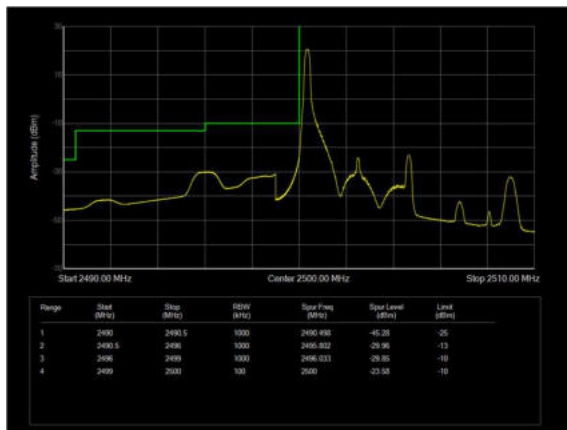
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



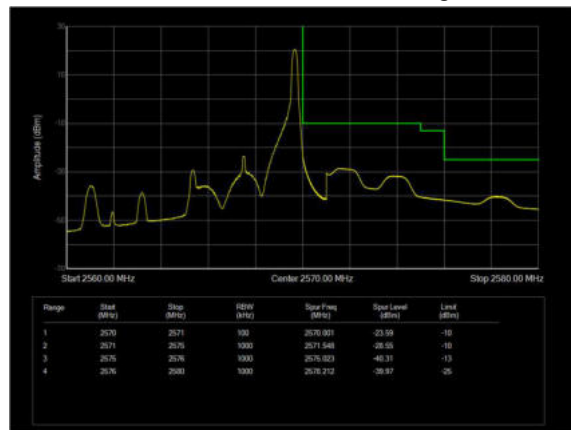
LTE Band 7 QPSK 20MHz CH-High, 100%RB



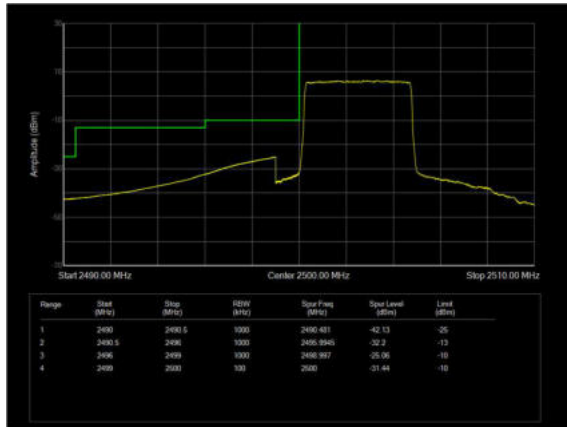
LTE Band 7 16QAM 5MHz CH-Low, 1 RB



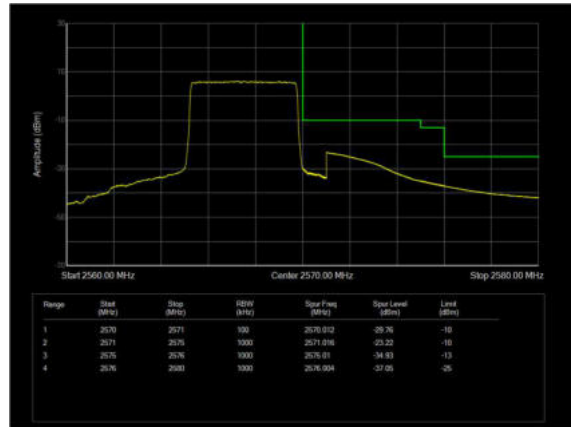
LTE Band 7 16QAM 5MHz CH-High, 1 RB



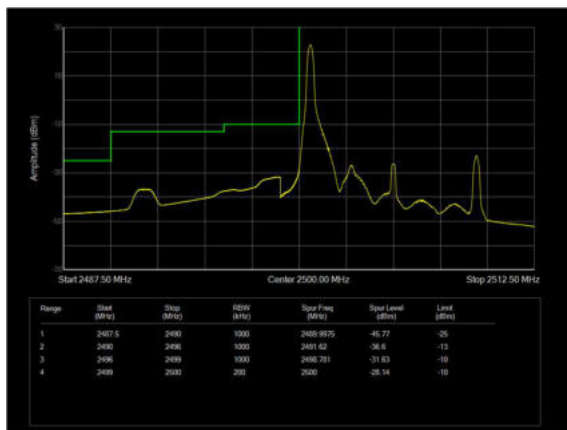
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



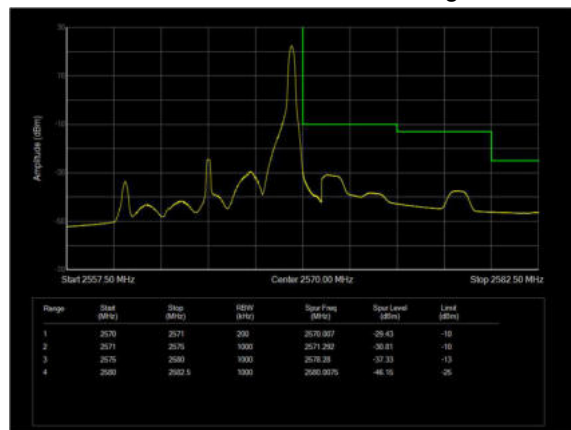
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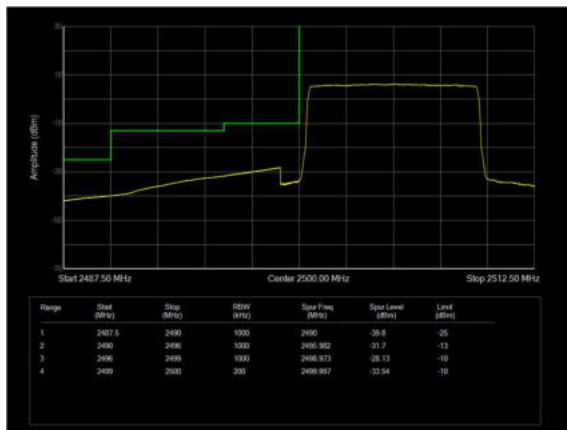
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



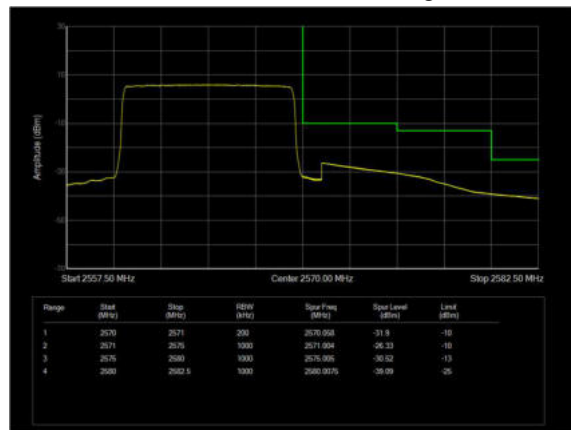
LTE Band 7 16QAM 10MHz CH-High, 1 RB



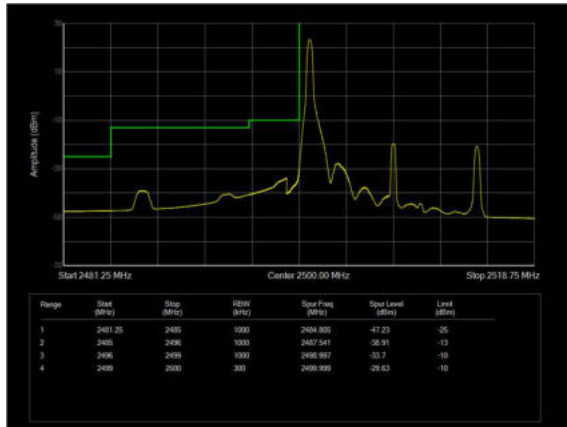
LTE Band 7 16QAM 10MHz CH-Low, 100%RB



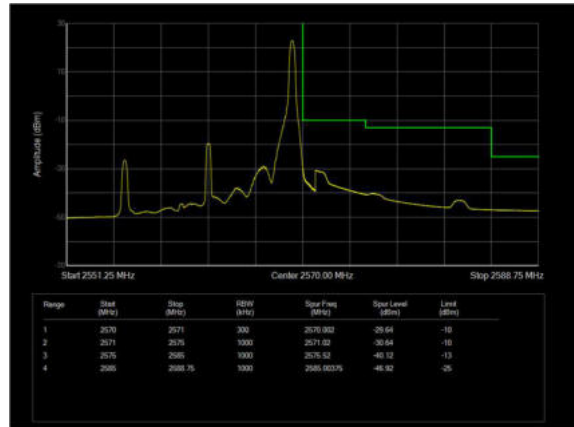
LTE Band 7 16QAM 10MHz CH-High, 100%RB



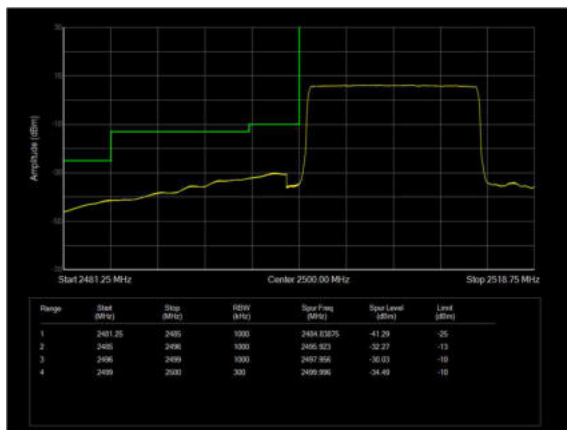
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



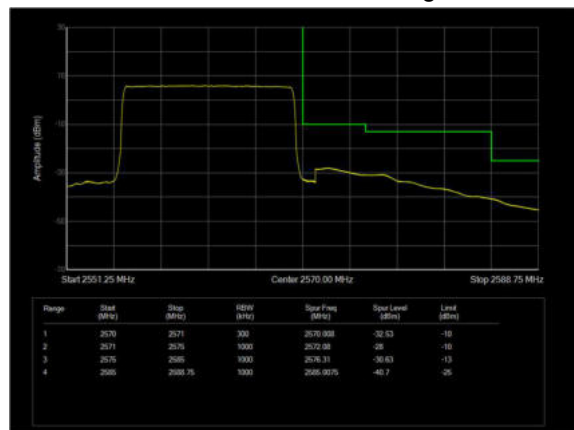
LTE Band 7 16QAM 15MHz CH-High, 1 RB



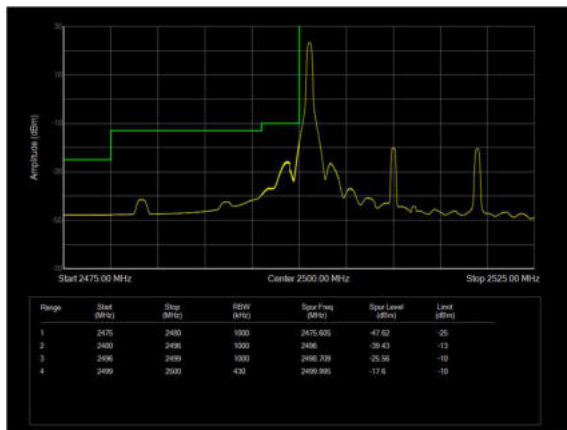
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



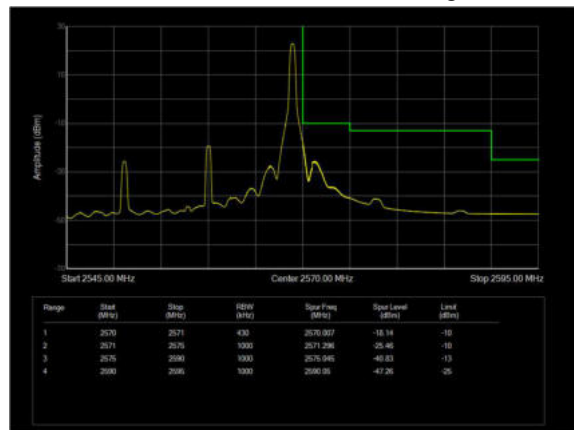
LTE Band 7 16QAM 15MHz CH-High, 100%RB



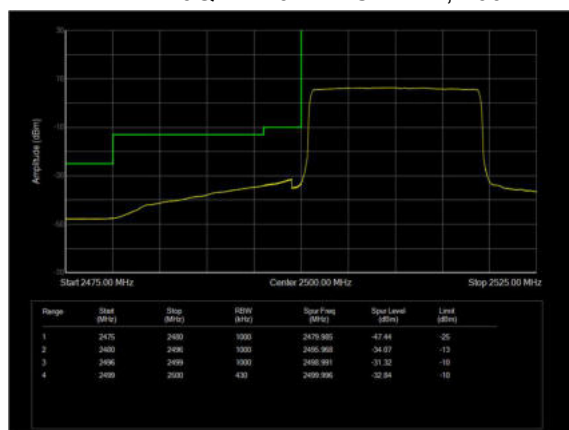
LTE Band 7 16QAM 20MHz CH-Low, 1 RB



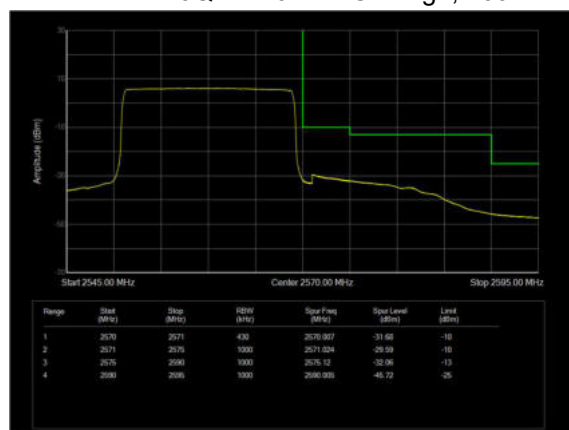
LTE Band 7 16QAM 20MHz CH-High, 1 RB



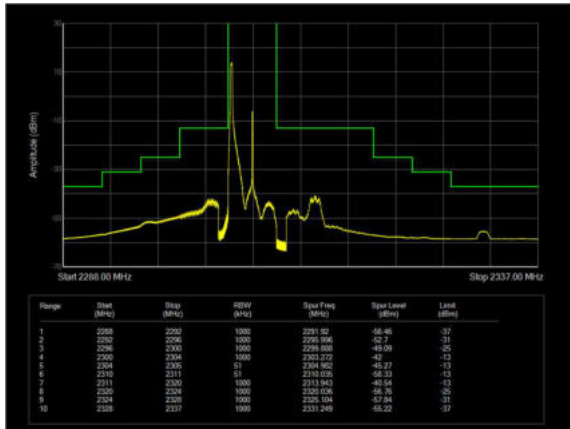
LTE Band 7 16QAM 20MHz CH-Low, 100%RB



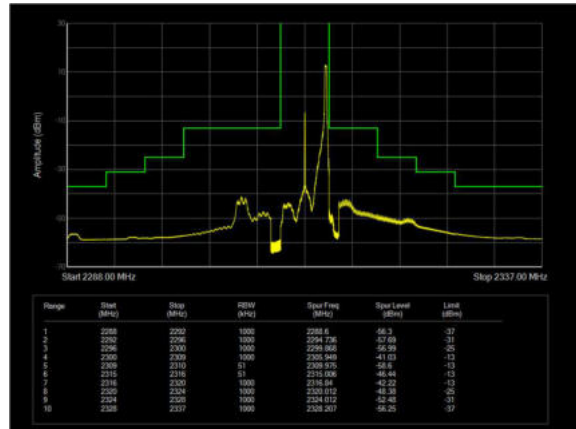
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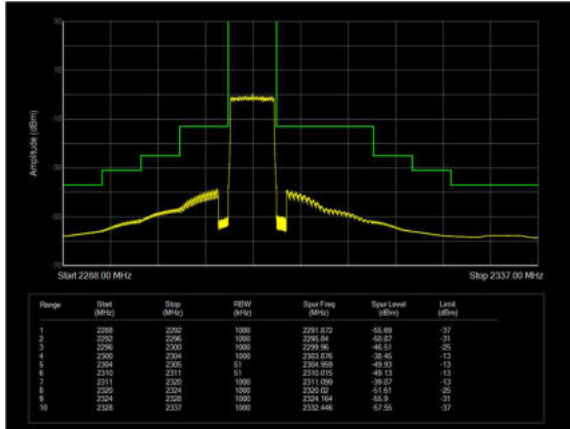
LTE Band 40 Subset 1 QPSK 5MHz CH-Low, 1
RB



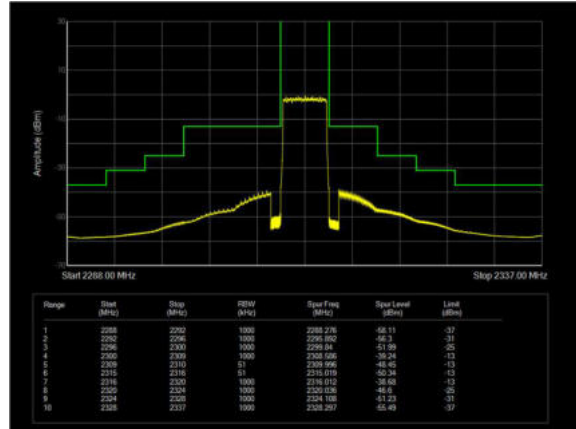
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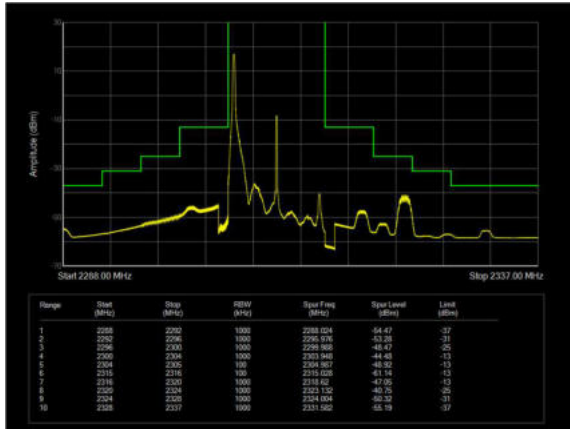
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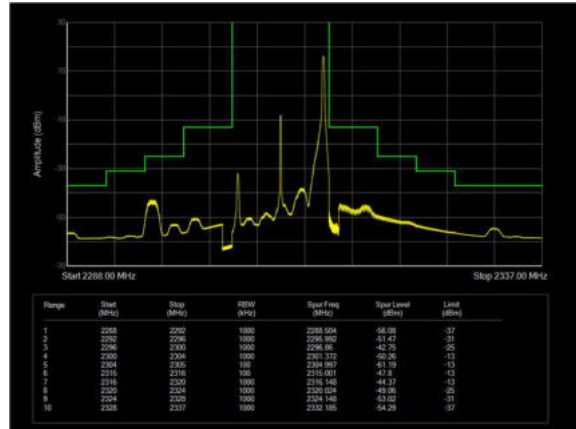
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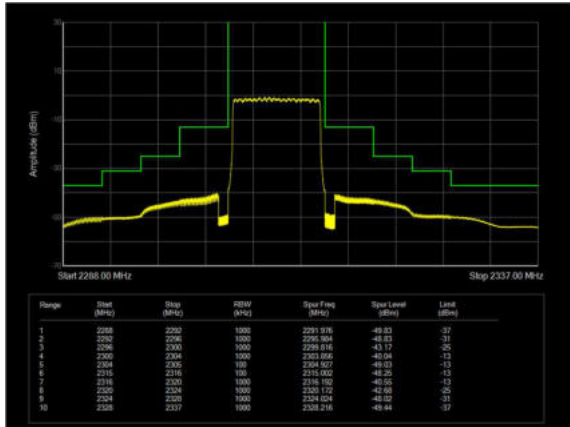
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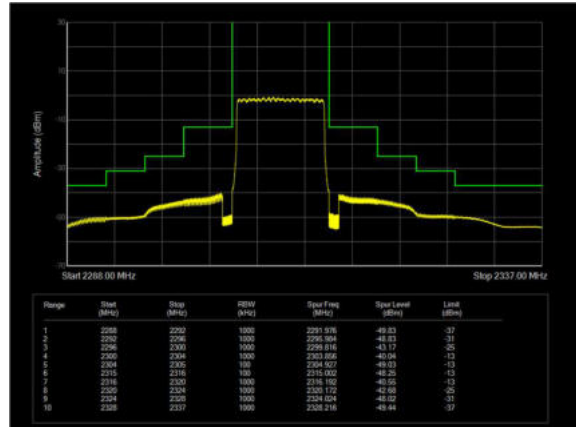
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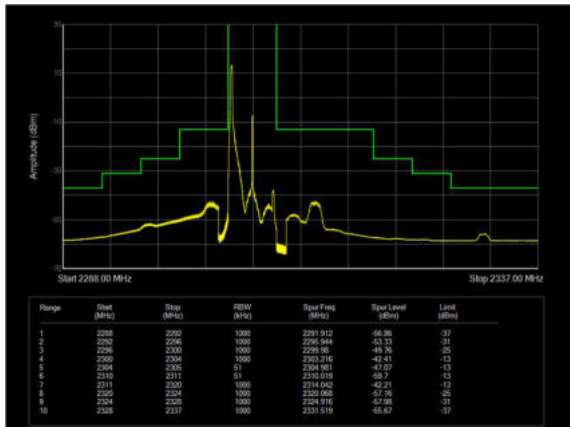
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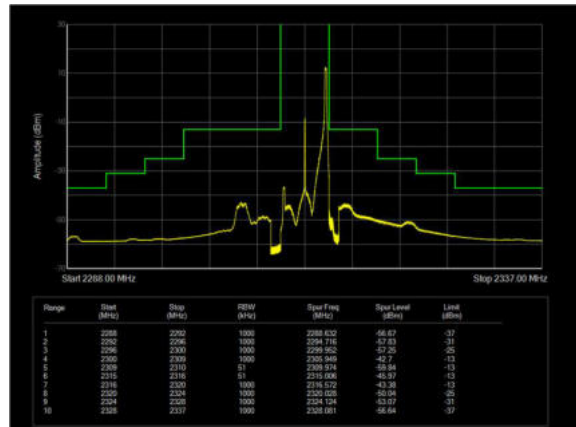
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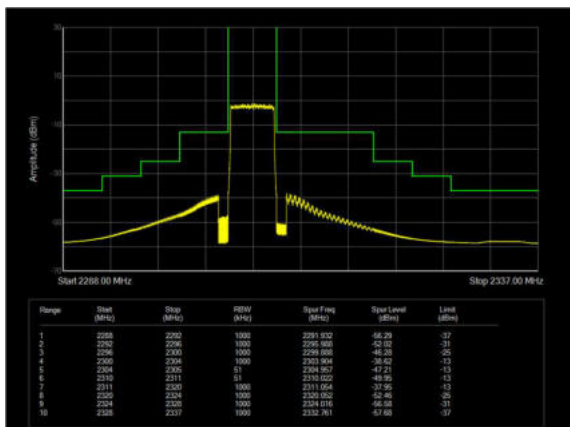
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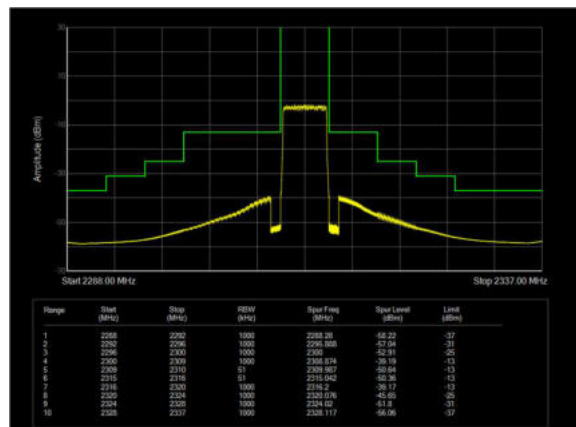
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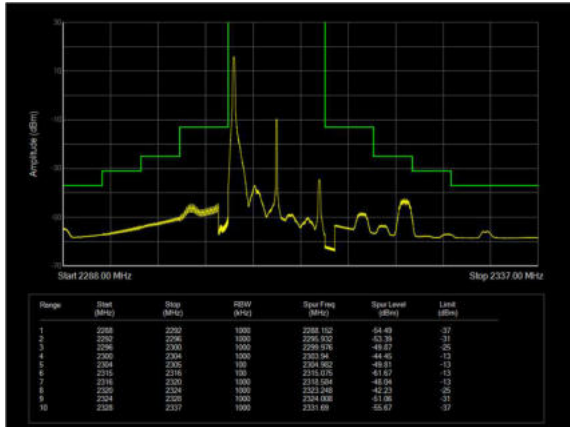
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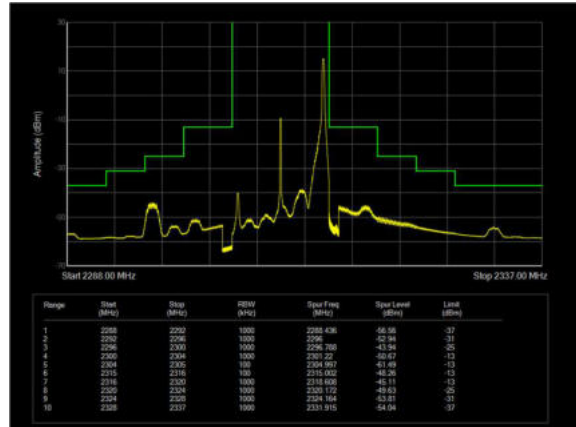
LTE Band 40 Subset 1 16QAM 5MHz CH-High, 100%RB



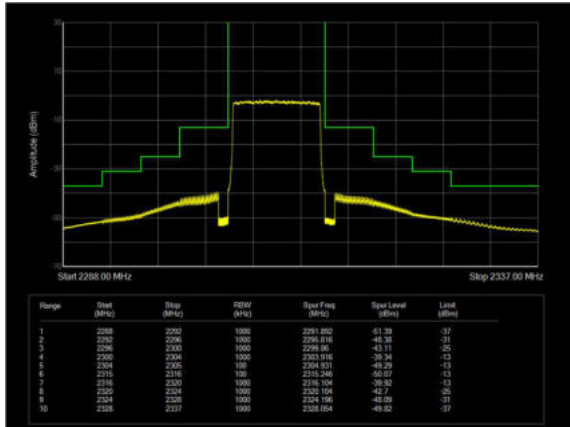
LTE Band 40 Subset 1 16QAM 10MHz CH-Low,
1 RB



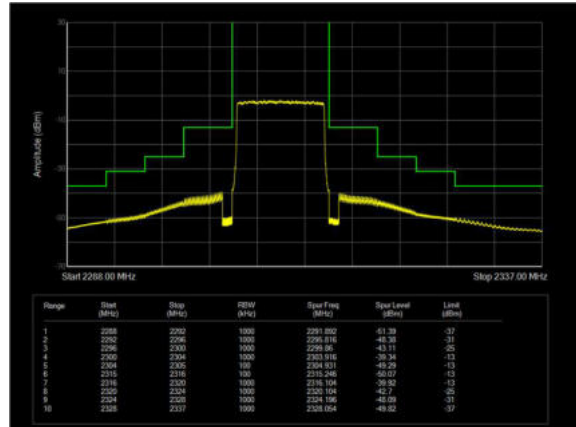
LTE Band 40 Subset 1 16QAM 10MHz CH-High,
1 RB



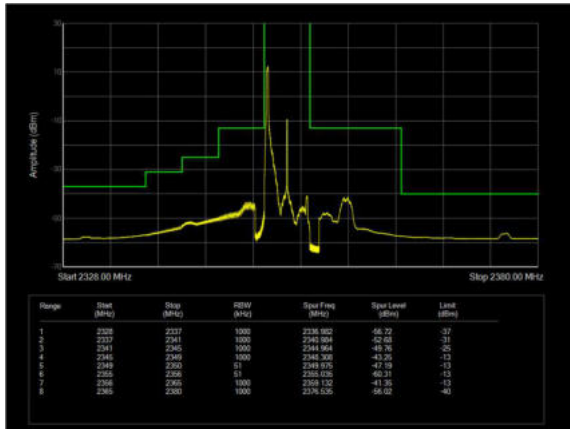
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100%RB



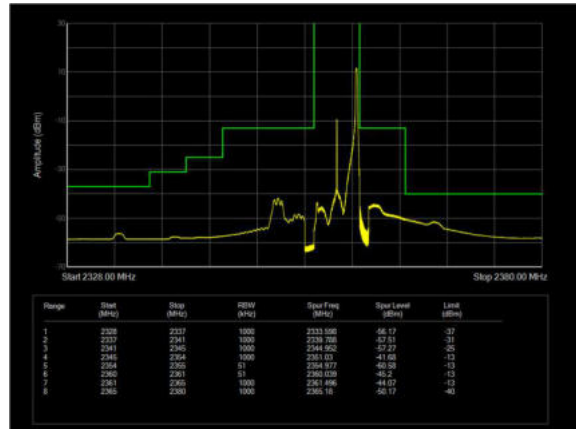
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100%RB



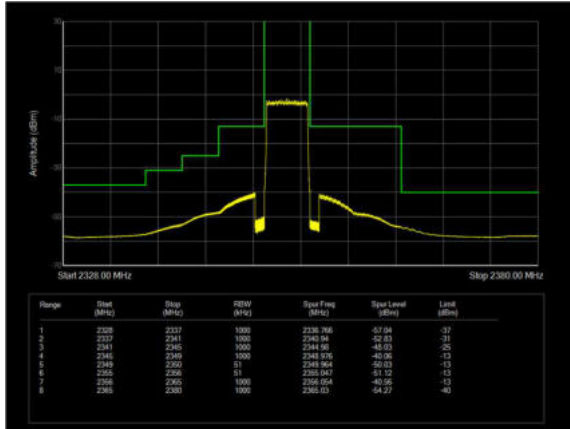
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RB



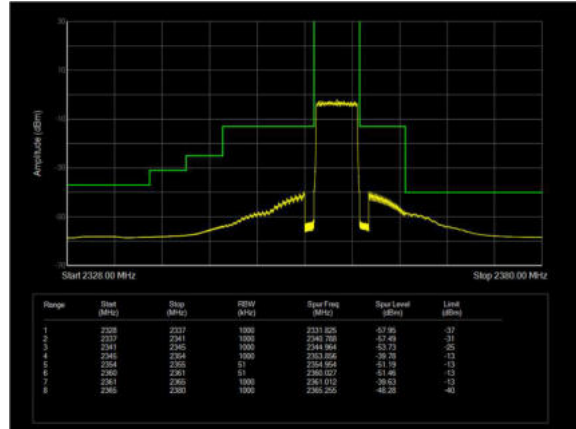
LTE Band 40 Subset 2 QPSK 5MHz CH-High, 1
RB



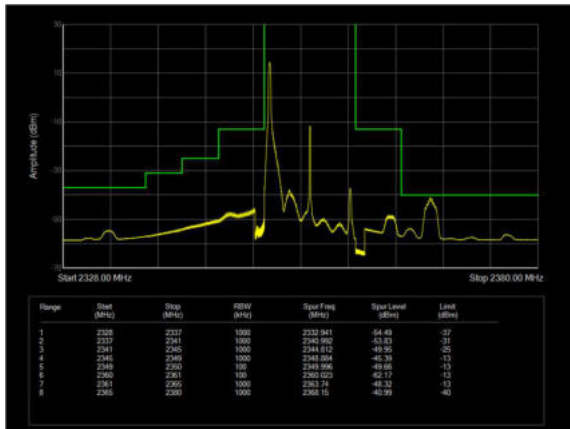
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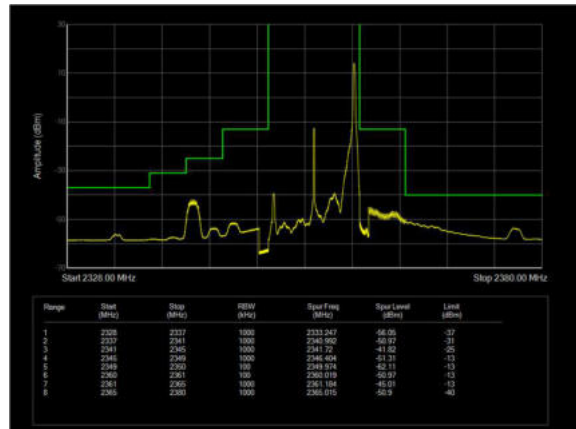
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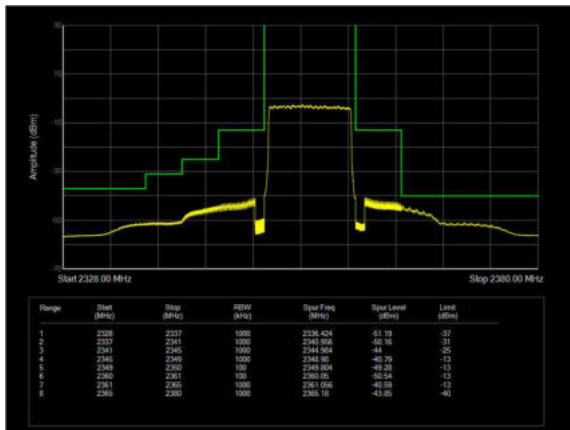
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RB



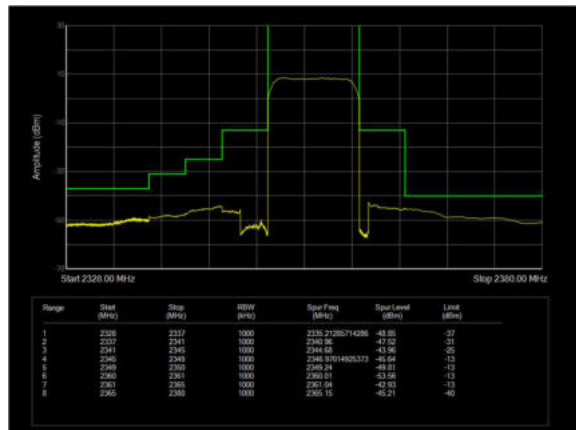
LTE Band 40 Subset 2 QPSK 10MHz CH-High, 1
RB



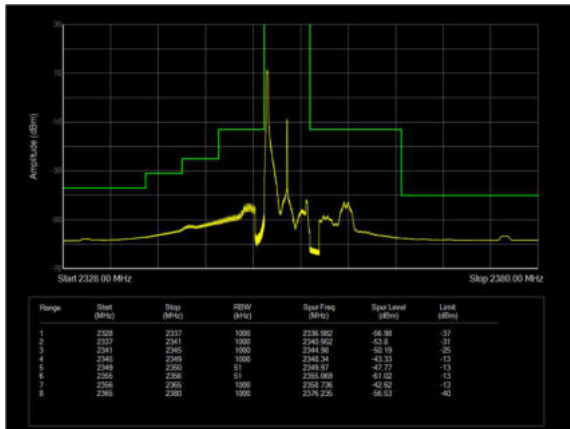
LTE Band 40 Subset 2 QPSK 10MHz CH-Low, 100%RB



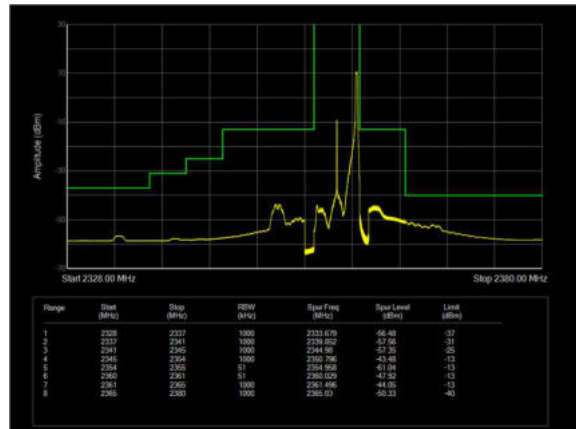
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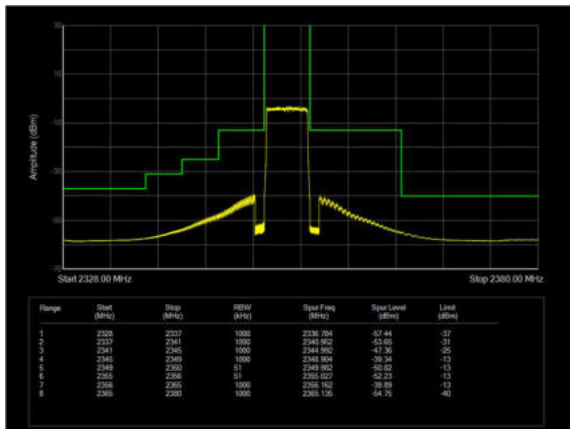
LTE Band 40 Subset 2 16QAM 5MHz CH-Low, 1 RB



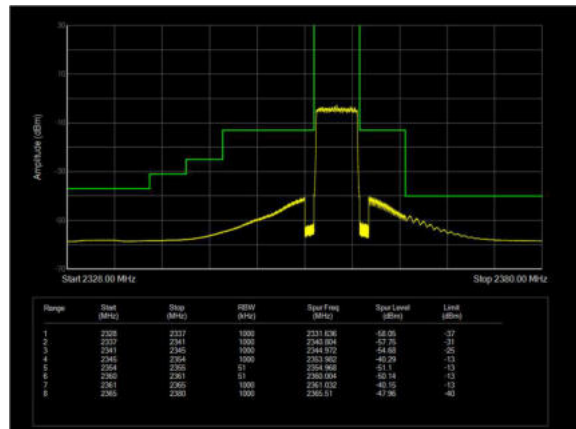
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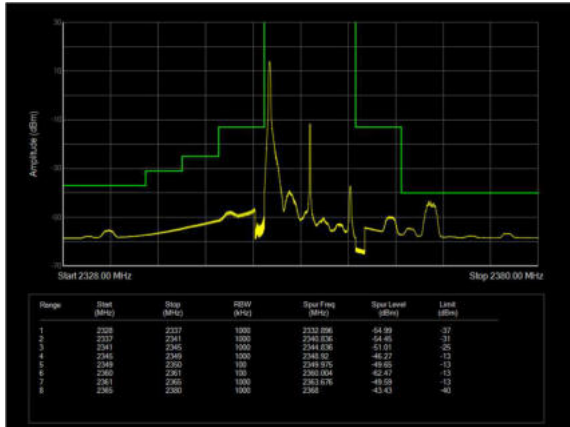
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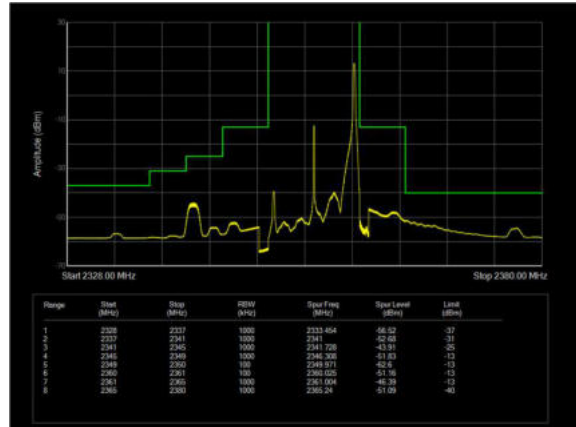
LTE Band 40 Subset 2 16QAM 5MHz CH-High, 100%RB



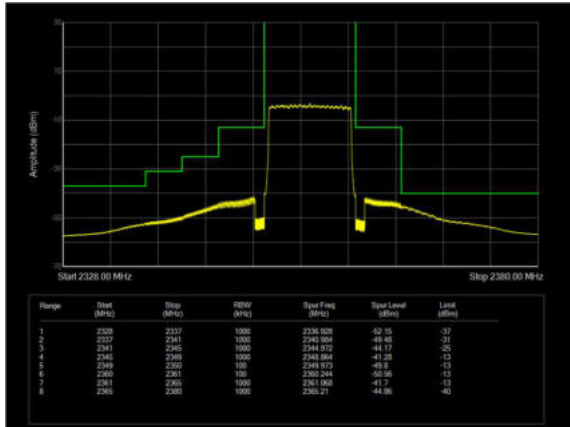
LTE Band 40 Subset 2 16QAM 10MHz CH-Low,
1 RB



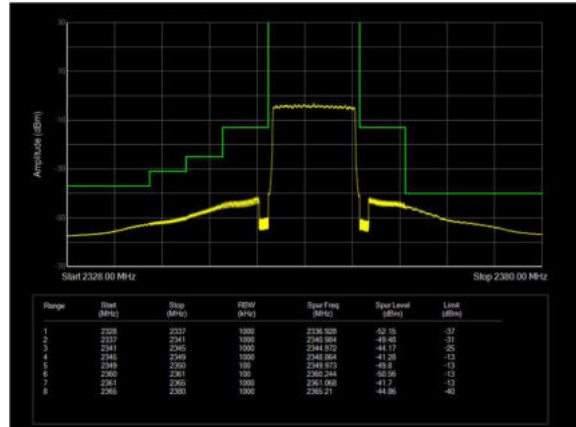
LTE Band 40 Subset 2 16QAM 10MHz CH-High,
1 RB



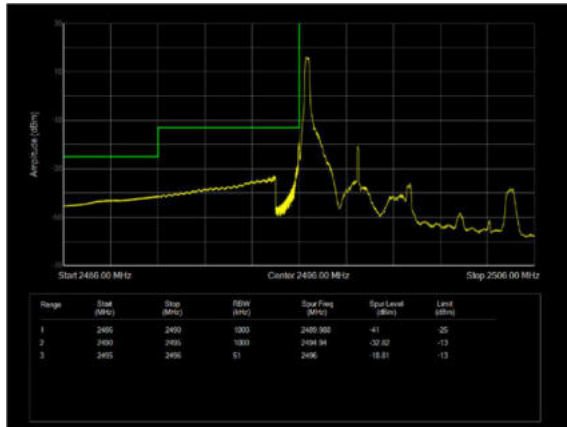
LTE Band 40 Subset 2 16QAM 10MHz CH-Low,
100%RB



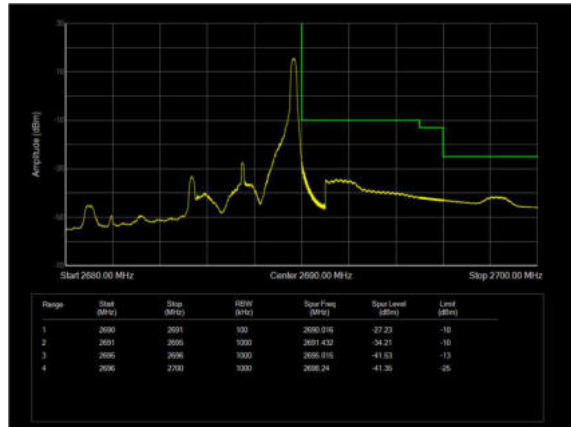
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100%RB



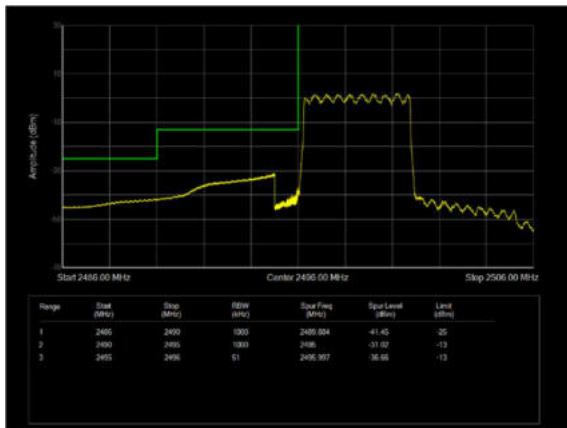
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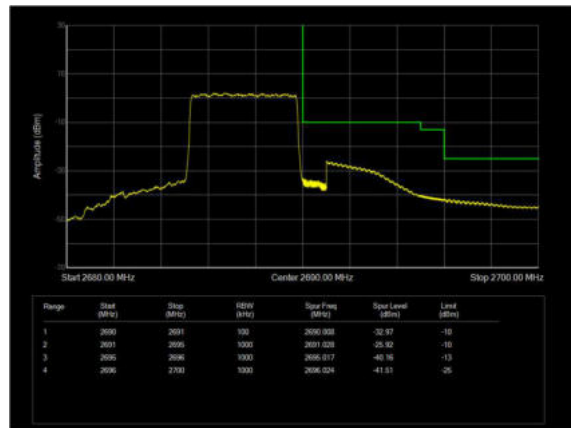
LTE Band 41 QPSK 5MHz CH-High, 1 RB



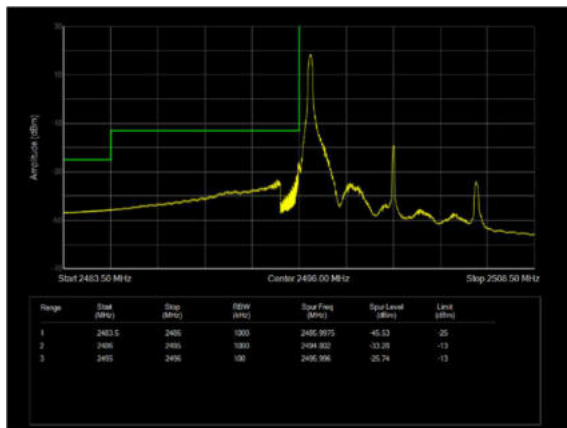
LTE Band 41 QPSK 5MHz CH-Low, 100%RB



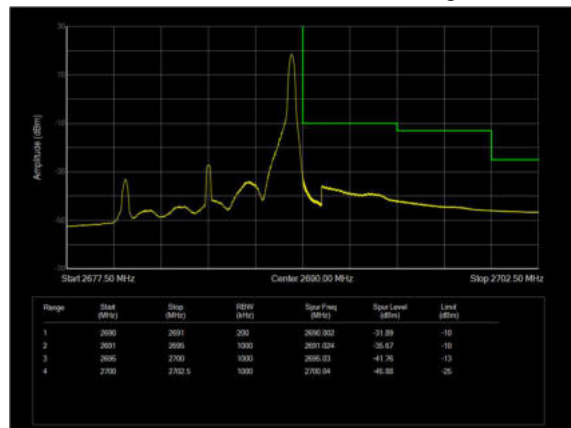
LTE Band 41 QPSK 5MHz CH-High, 100%RB



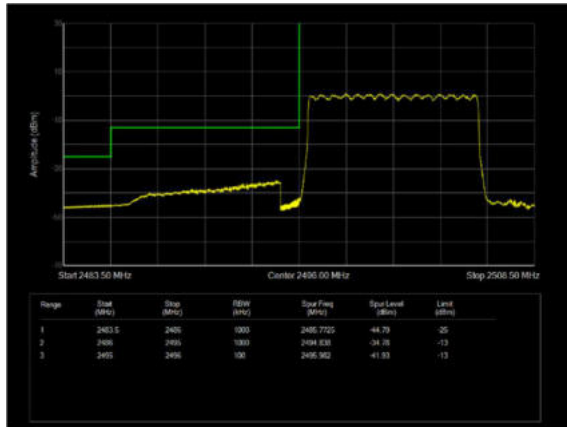
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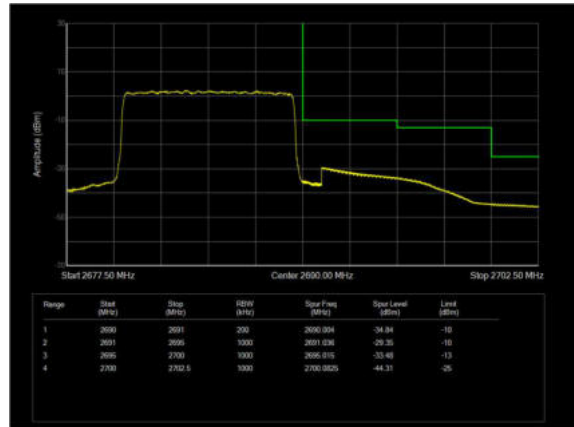
LTE Band 41 QPSK 10MHz CH-High, 1 RB



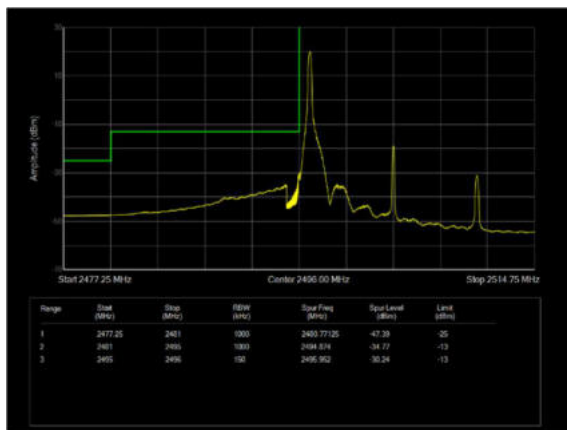
LTE Band 41 QPSK 10MHz CH-Low, 100%RB



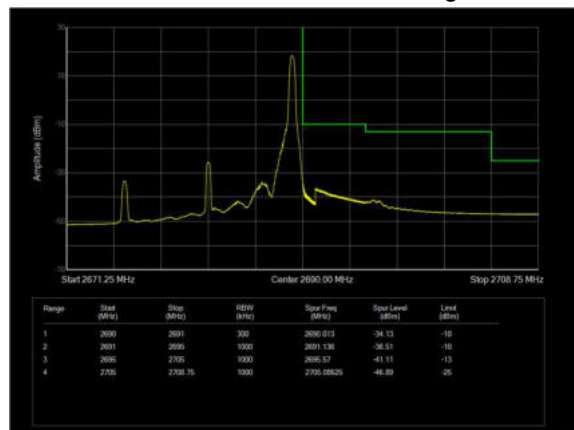
LTE Band 41 QPSK 10MHz CH-High, 100%RB



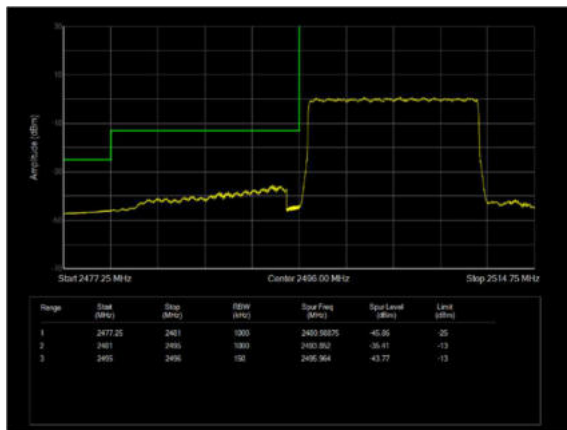
LTE Band 41 QPSK 15MHz CH-Low, 1 RB



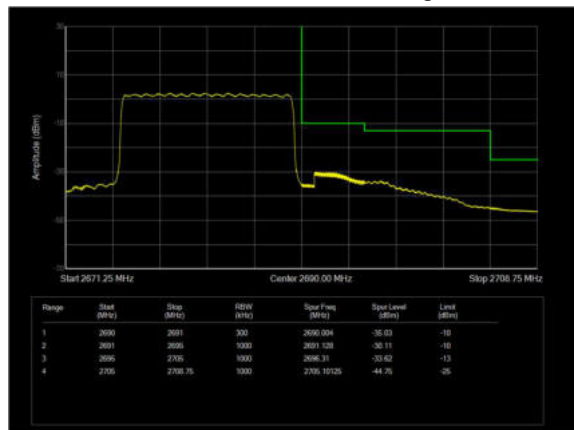
LTE Band 41 QPSK 15MHz CH-High, 1 RB



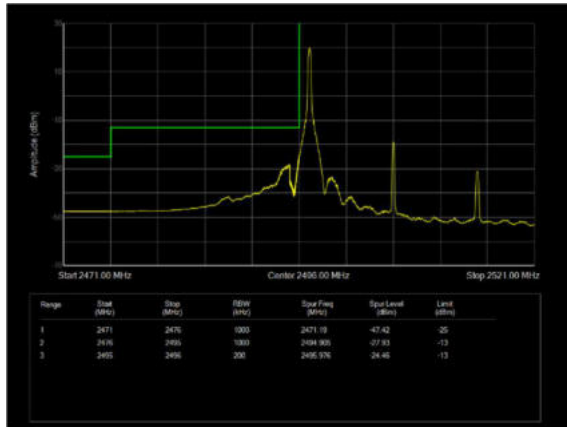
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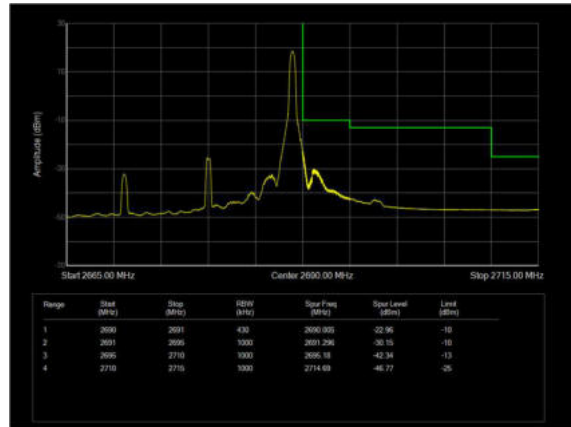
LTE Band 41 QPSK 15MHz CH-High, 100%RB



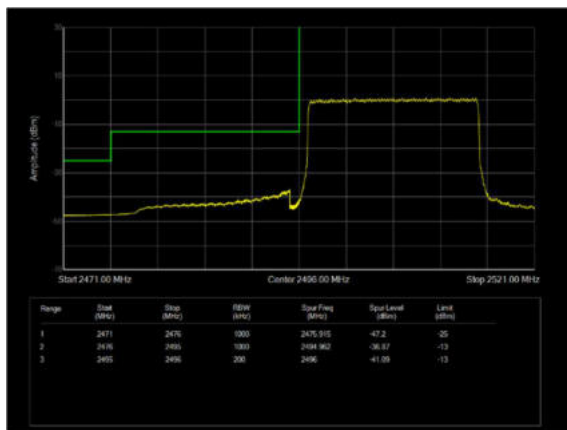
LTE Band 41 QPSK 20MHz CH-Low, 1 RB



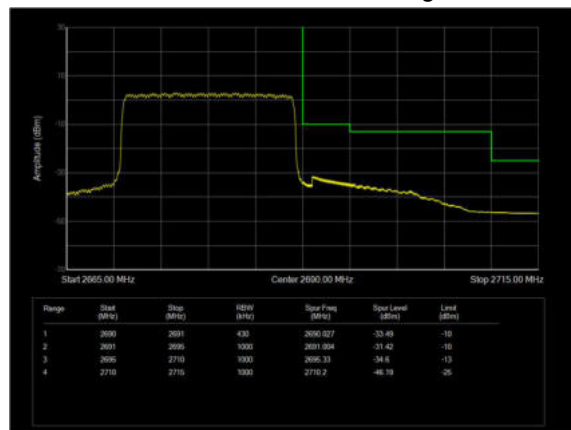
LTE Band 41 QPSK 20MHz CH-High, 1 RB



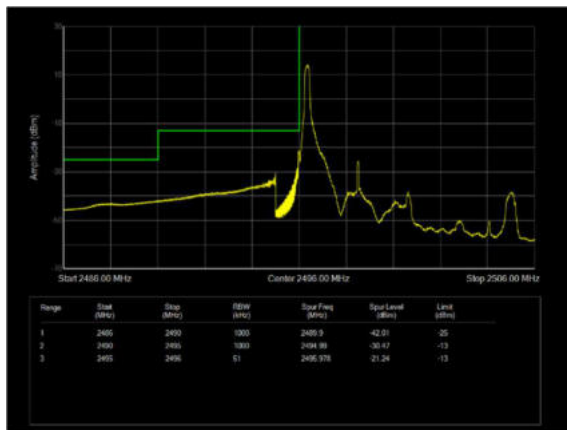
LTE Band 41 QPSK 20MHz CH-Low, 100%RB



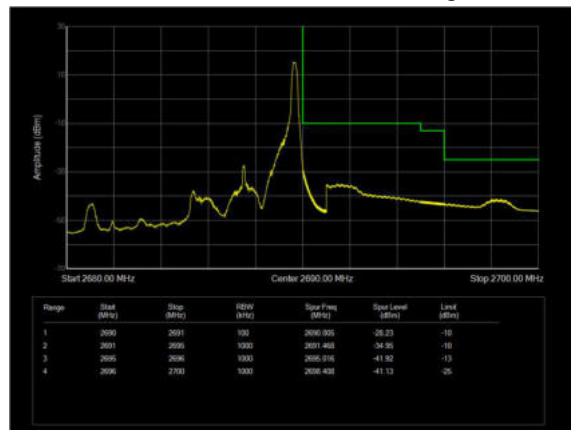
LTE Band 41 QPSK 20MHz CH-High, 100%RB



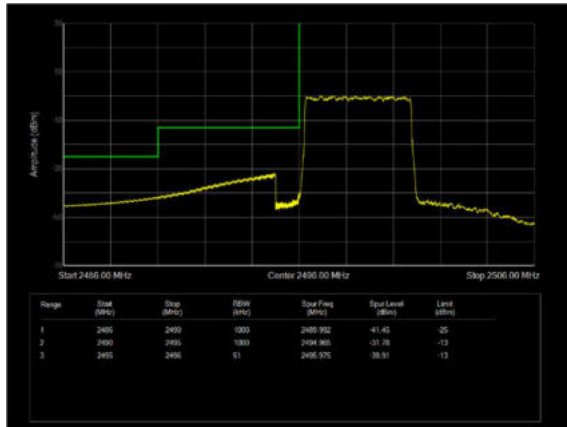
LTE Band 41 16QAM 5MHz CH-Low, 1 RB



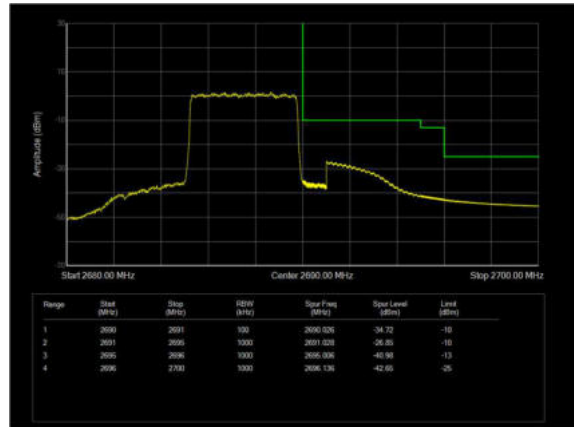
LTE Band 41 16QAM 5MHz CH-High, 1 RB



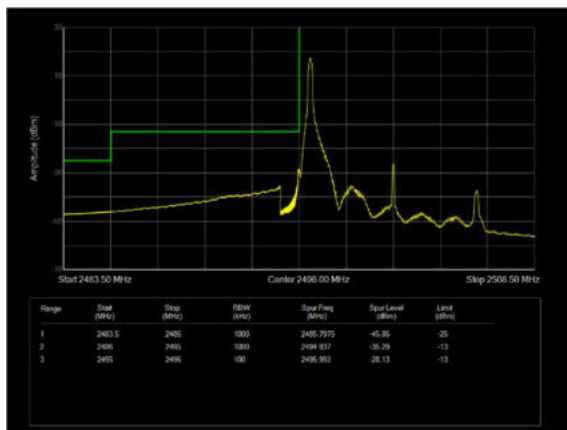
LTE Band 41 16QAM 5MHz CH-Low, 100%RB



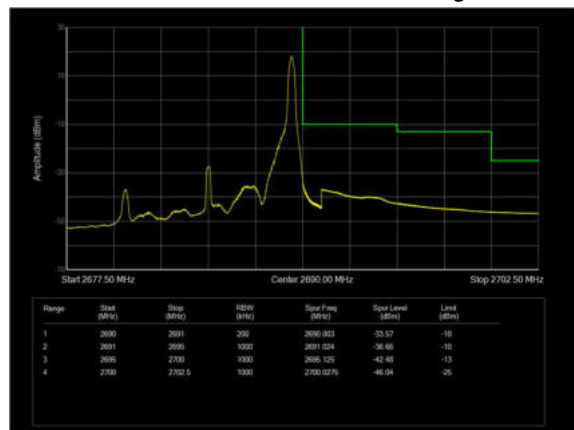
LTE Band 41 16QAM 5MHz CH-High, 100%RB



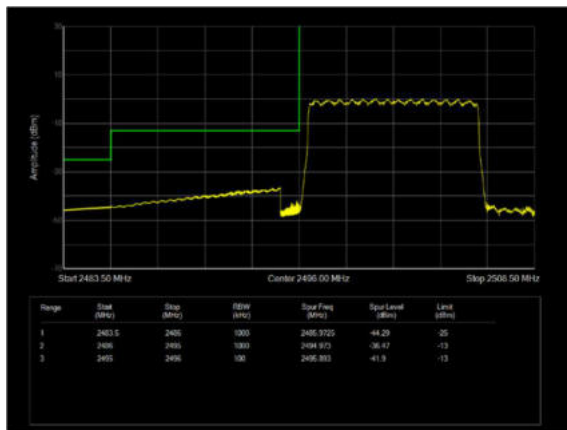
LTE Band 41 16QAM 10MHz CH-Low, 1 RB



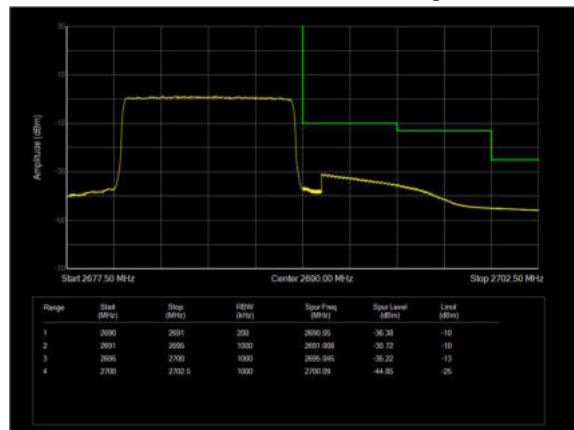
LTE Band 41 16QAM 10MHz CH-High, 1 RB



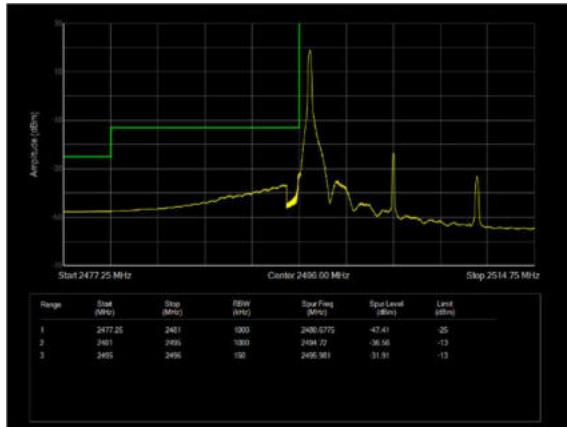
LTE Band 41 16QAM 10MHz CH-Low, 100%RB



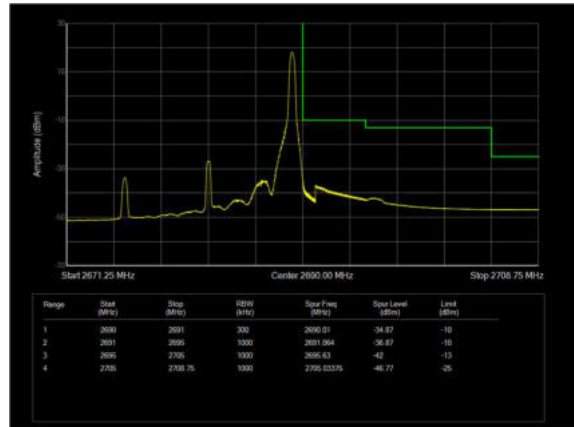
LTE Band 41 16QAM 10MHz CH-High, 100%RB



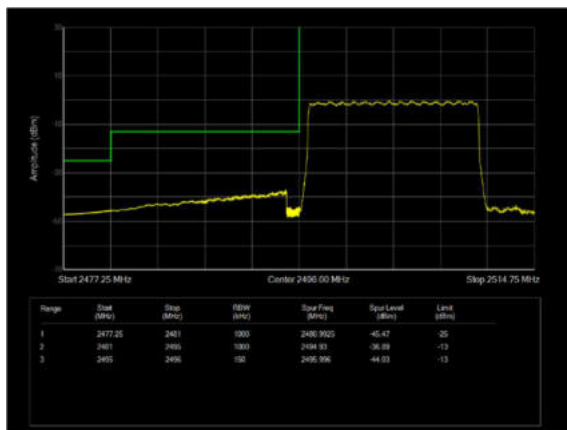
LTE Band 41 16QAM 15MHz CH-Low, 1 RB



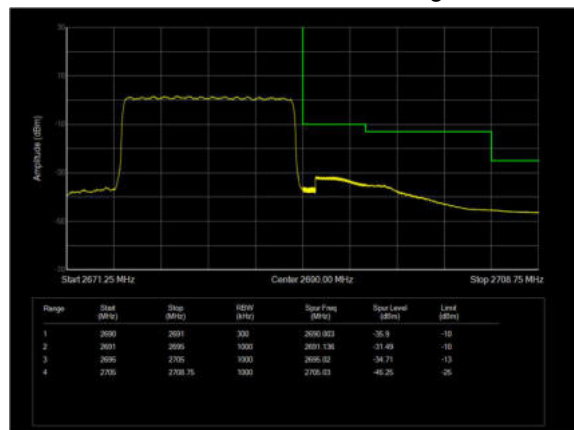
LTE Band 41 16QAM 15MHz CH-High, 1 RB



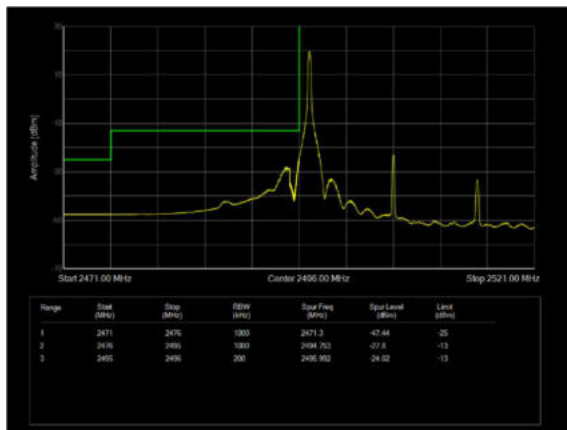
LTE Band 41 16QAM 15MHz CH-Low, 100%RB



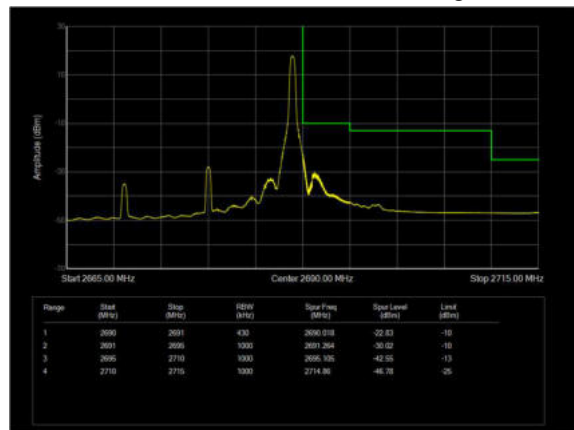
LTE Band 41 16QAM 15MHz CH-High, 100%RB



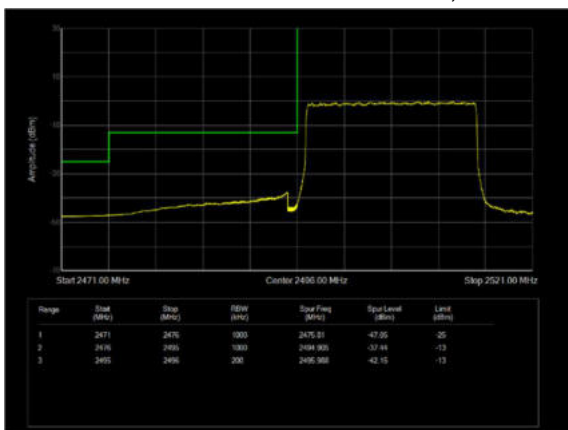
LTE Band 41 16QAM 20MHz CH-Low, RB 1



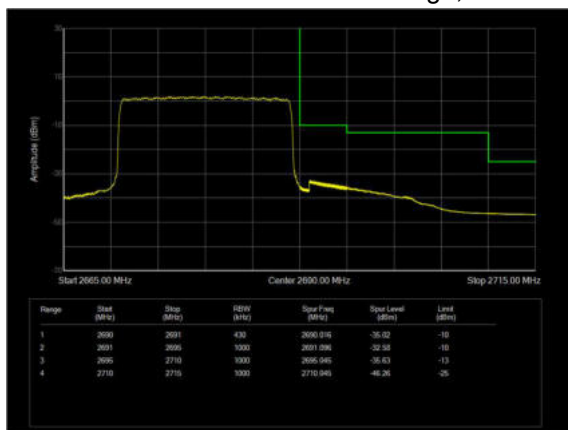
LTE Band 41 16QAM 20MHz CH-High, RB 1



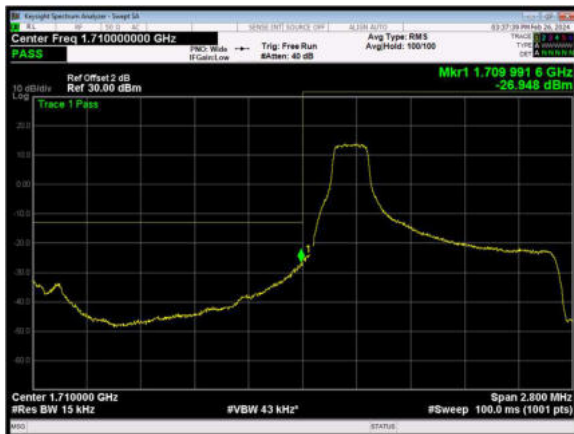
LTE Band 41 16QAM 20MHz CH-Low, 100%RB



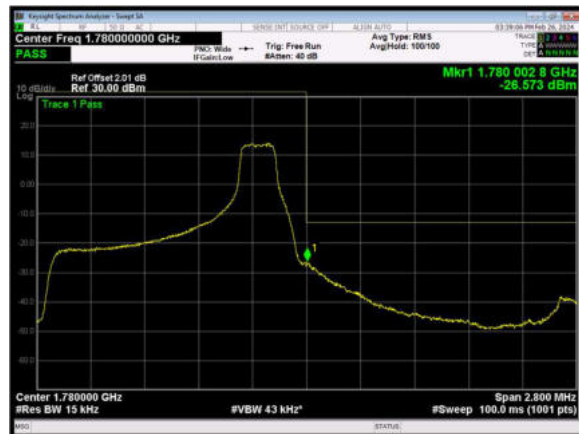
LTE Band 41 16QAM 20MHz CH-High, 100%RB



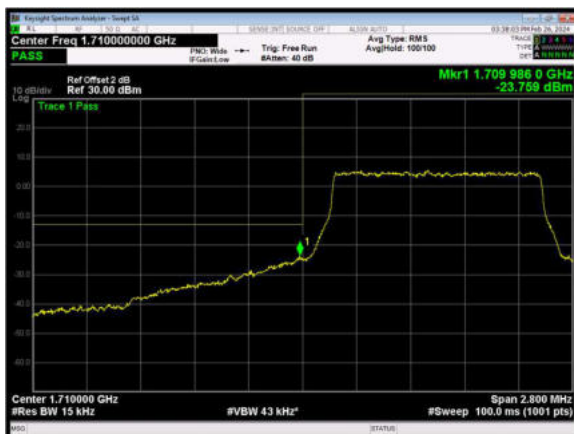
LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 66 QPSK 1.4MHz CH-High, 1 RB



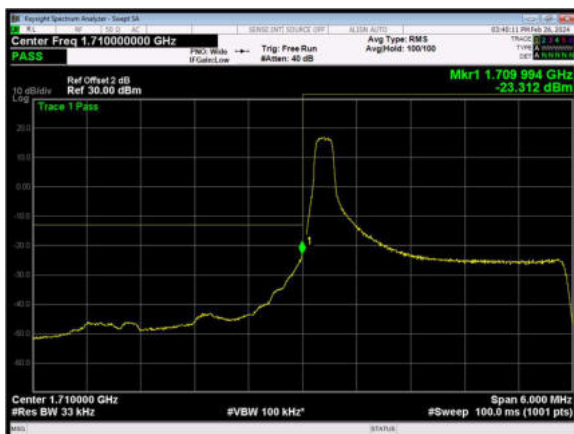
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



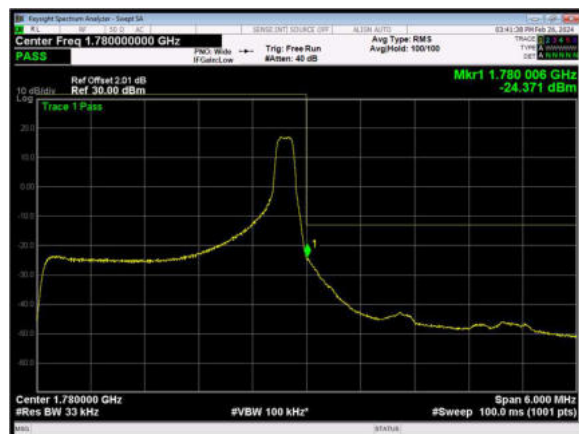
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



LTE Band 66 QPSK 3MHz CH-Low, 1 RB



LTE Band 66 QPSK 3MHz CH-High, 1 RB



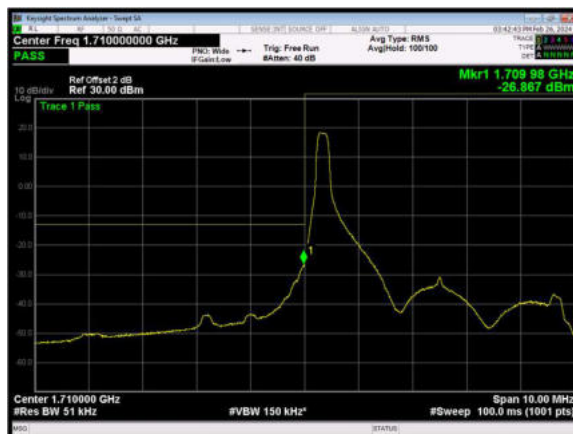
LTE Band 66 QPSK 3MHz CH-Low, 100%RB



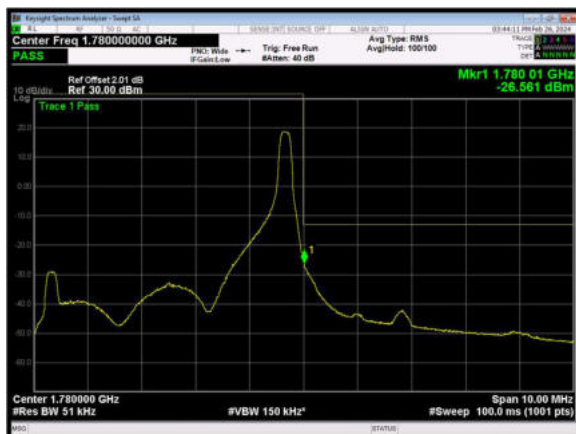
LTE Band 66 QPSK 3MHz CH-High, 100%RB



LTE Band 66 QPSK 5MHz CH-Low, 1 RB



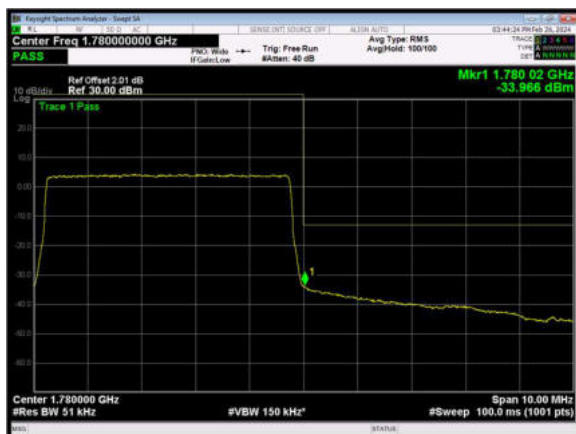
LTE Band 66 QPSK 5MHz CH-High, 1 RB



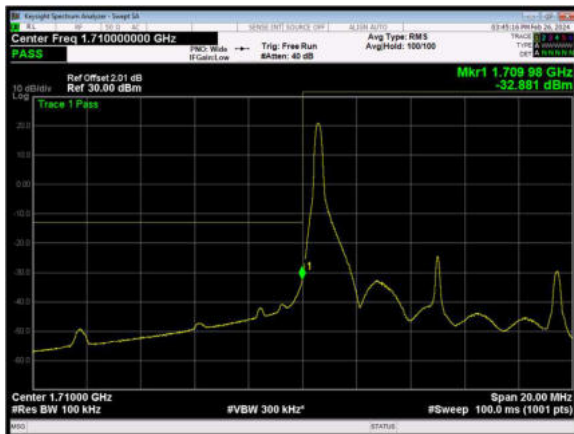
LTE Band 66 QPSK 5MHz CH-Low, 100%RB



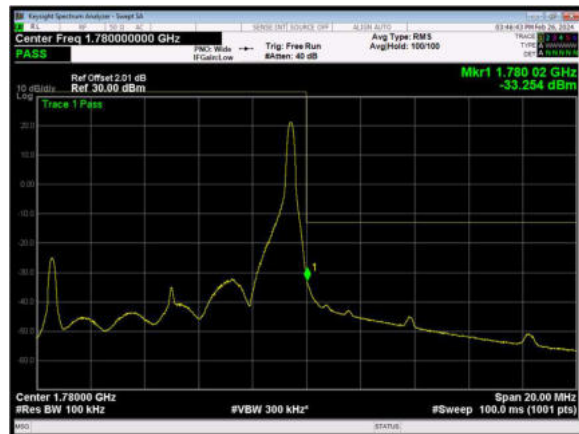
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LTE Band 66 QPSK 10MHz CH-Low, 1 RB



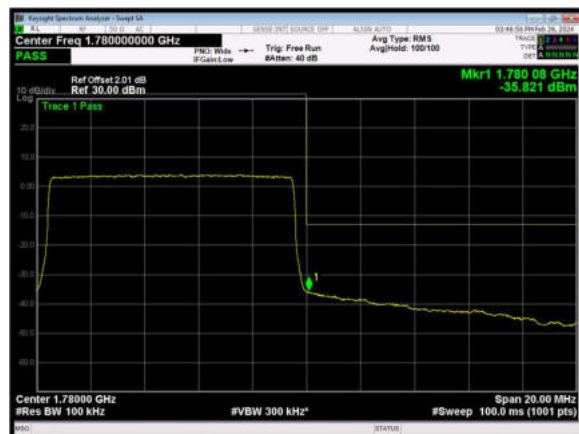
LTE Band 66 QPSK 10MHz CH-High, 1 RB



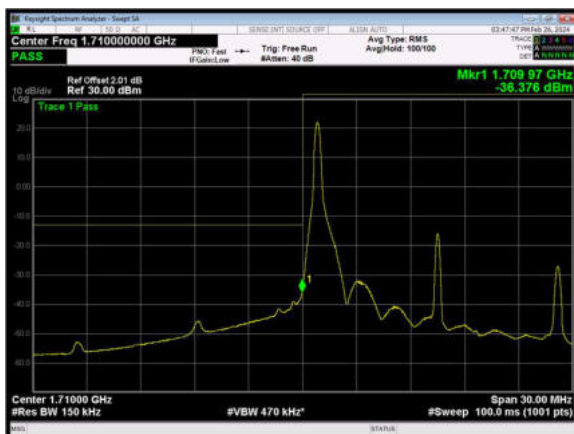
LTE Band 66 QPSK 10MHz CH-Low, 100%RB



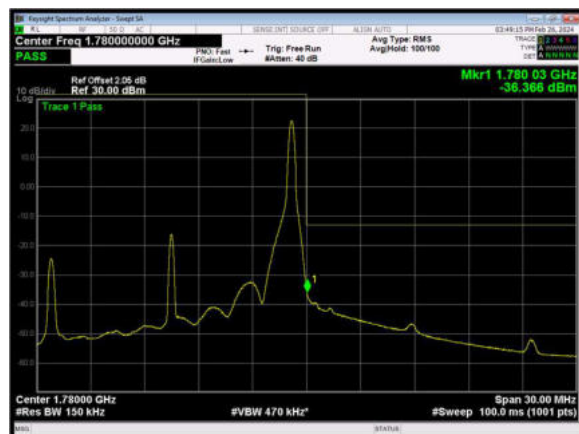
LTE Band 66 QPSK 10MHz CH-High, 100%RB



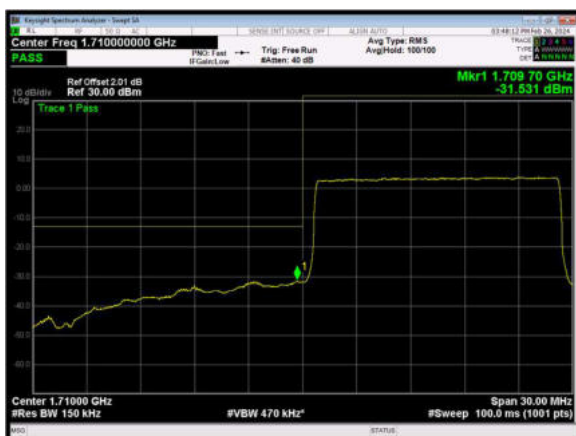
LTE Band 66 QPSK 15MHz CH-Low, 1 RB



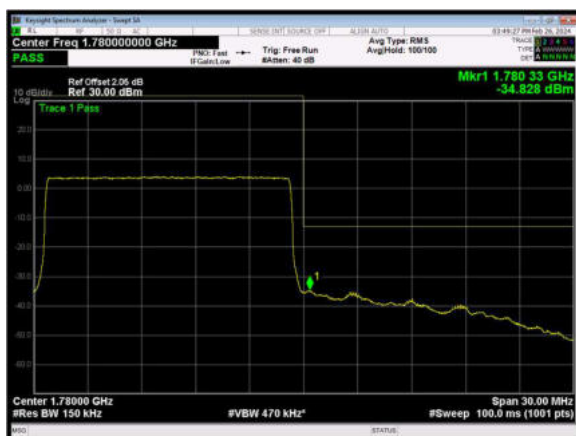
LTE Band 66 QPSK 15MHz CH-High, 1 RB



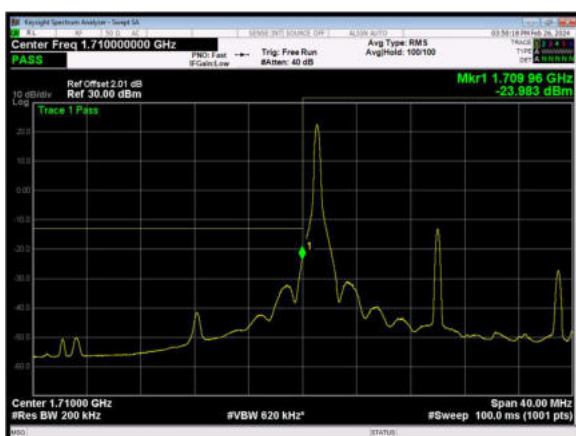
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



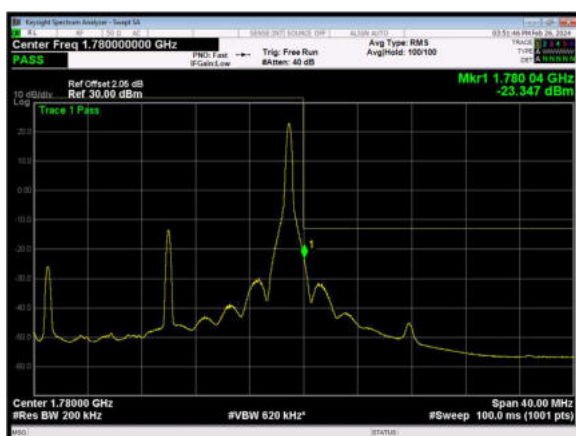
LTE Band 66 QPSK 15MHz CH-High, 100%RB



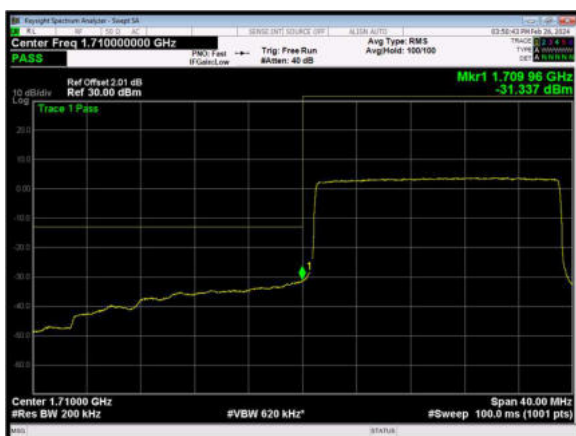
LTE Band 66 QPSK 20MHz CH-Low, 1 RB



LTE Band 66 QPSK 20MHz CH-High, 1 RB



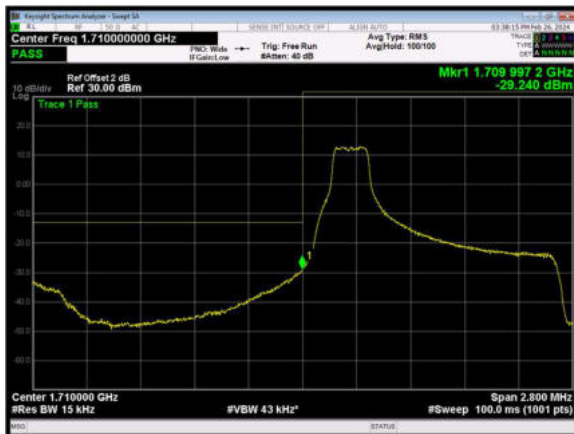
LTE Band 66 QPSK 20MHz CH-Low, 100%RB



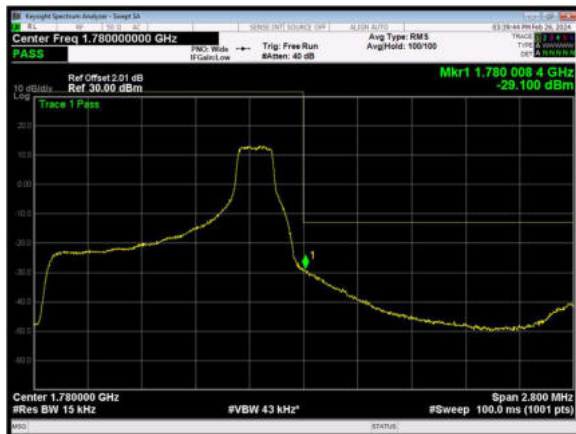
LTE Band 66 QPSK 20MHz CH-High, 100%RB



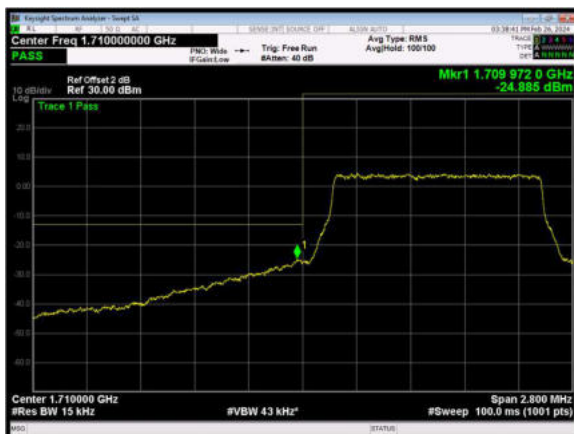
LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



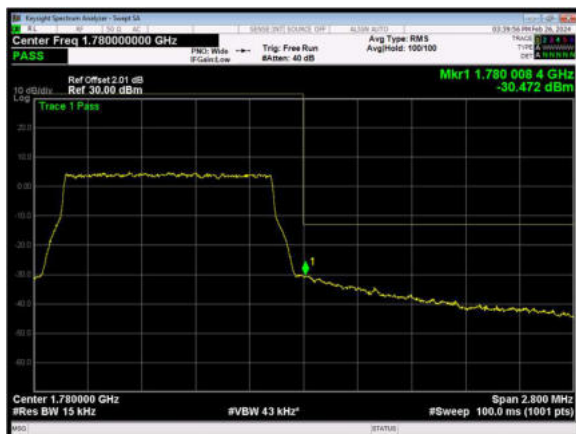
LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



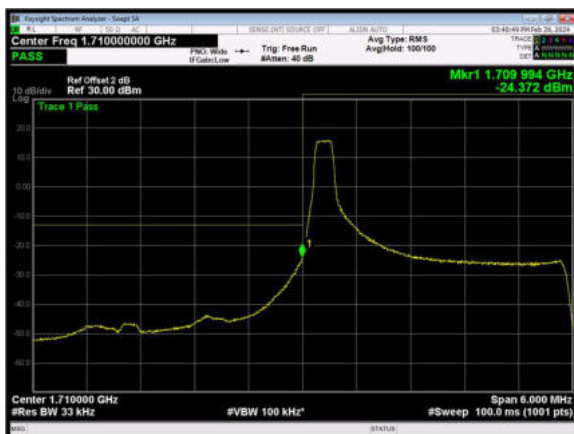
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



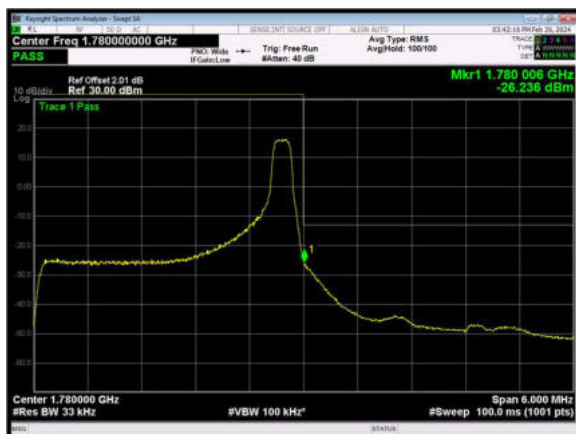
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



LTE Band 66 16QAM 3MHz CH-Low, 1 RB



LTE Band 66 16QAM 3MHz CH-High, 1 RB



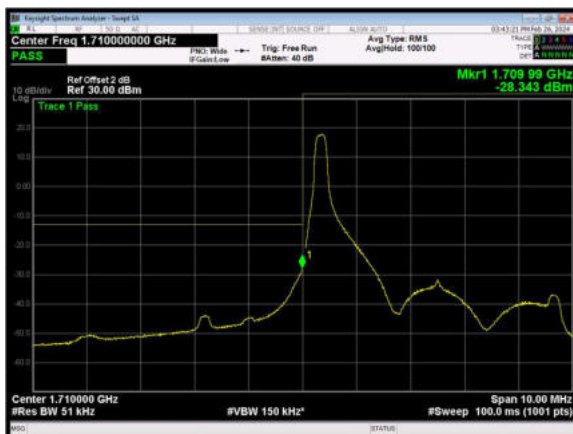
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



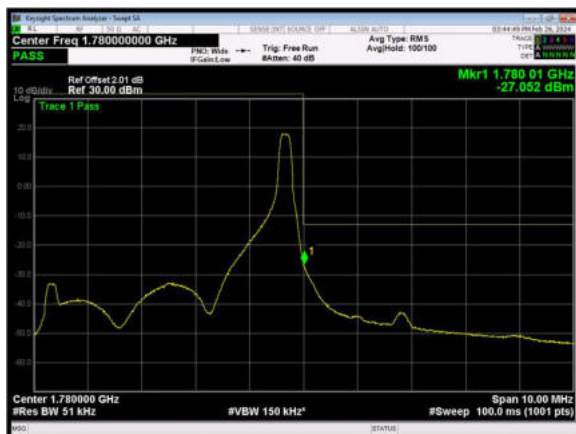
LTE Band 66 16QAM 3MHz CH-High, 100%RB



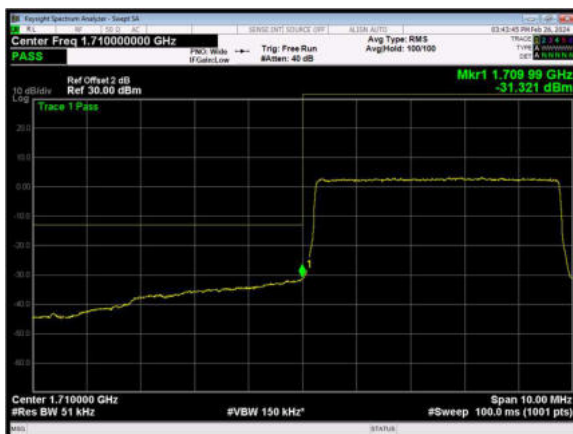
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



LTE Band 66 16QAM 5MHz CH-High, 1 RB



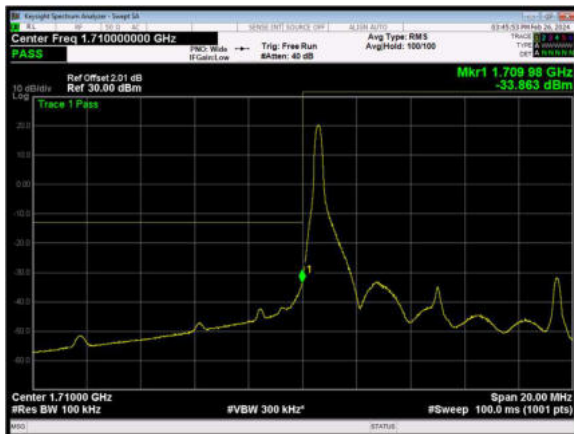
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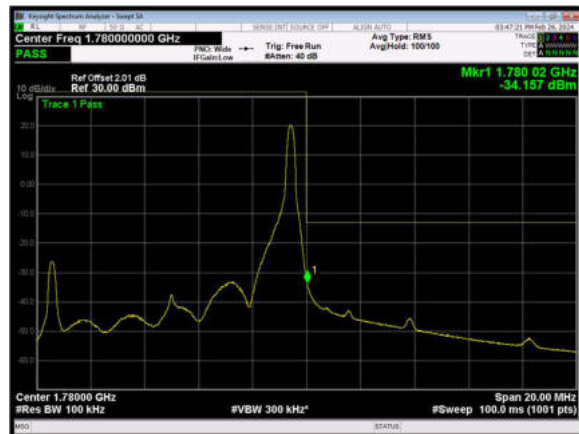
LTE Band 66 16QAM 5MHz CH-High, 100%RB



LTE Band 66 16QAM 10MHz CH-Low, 1 RB



LTE Band 66 16QAM 10MHz CH-High, 1 RB



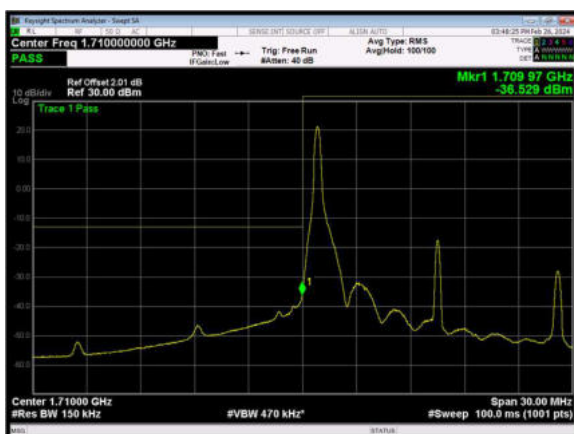
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



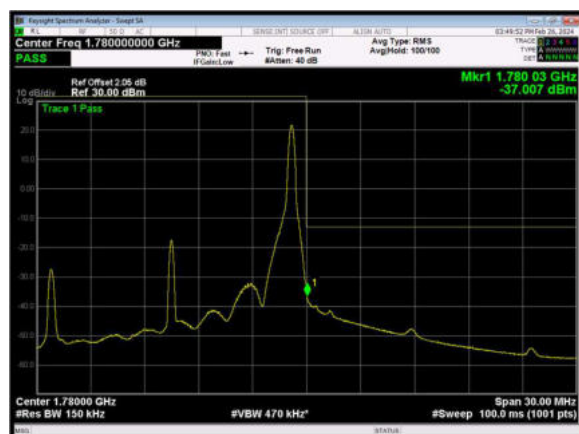
LTE Band 66 16QAM 10MHz CH-High, 100%RB



LTE Band 66 16QAM 15MHz CH-Low, 1 RB



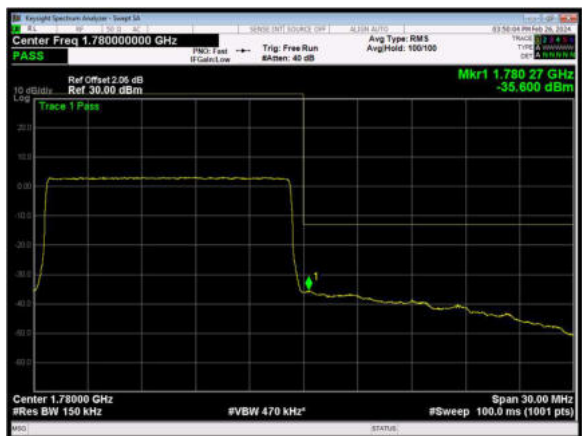
LTE Band 66 16QAM 15MHz CH-High, 1 RB



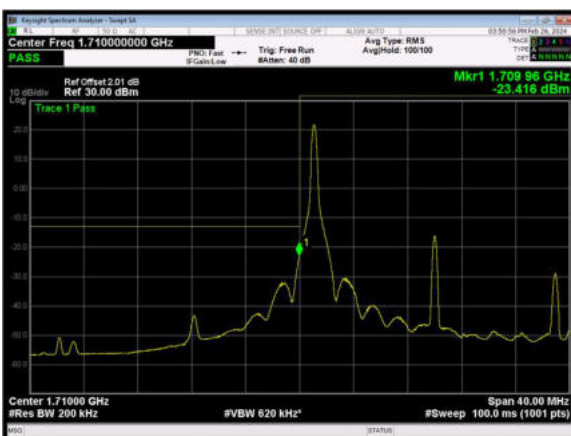
LTE Band 66 16QAM 15MHz CH-Low, 100%RB



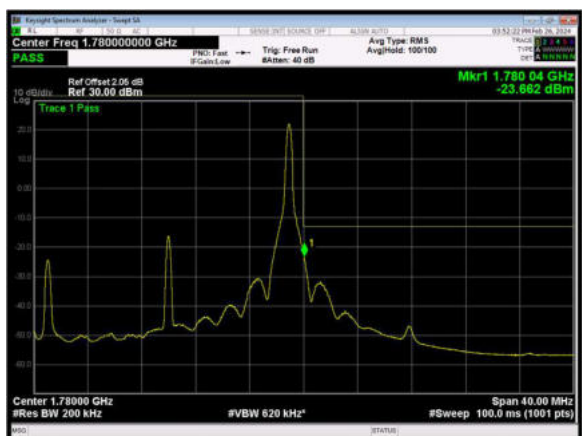
LTE Band 66 16QAM 15MHz CH-High, 100%RB



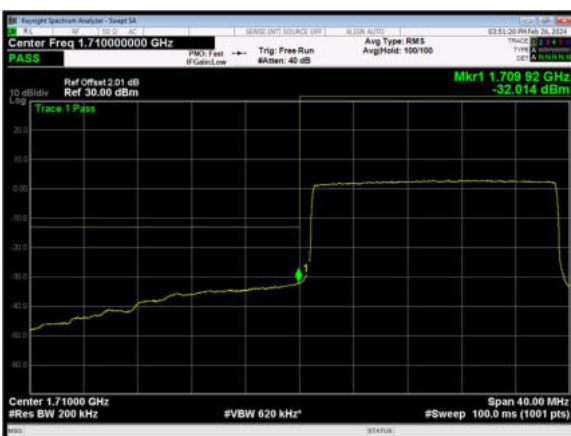
LTE Band 66 16QAM 20MHz CH-Low, 1 RB



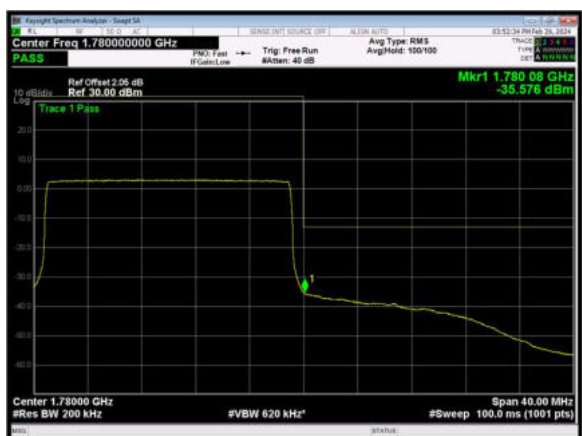
LTE Band 66 16QAM 20MHz CH-High, 1 RB



LTE Band 66 16QAM 20MHz CH-Low, 100%RB



LTE Band 66 16QAM 20MHz CH-High, 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

WCDMA Band IV	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
RMC	1312	1712.4	26.29	23.10	3.19	≤13	PASS
	1413	1732.6	26.32	23.16	3.16	≤13	PASS
	1513	1752.6	26.57	23.42	3.15	≤13	PASS

LTE Band 7							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	Limit (dB)	Verdict
5	20775	25	#0	QPSK	5.33	≤13	PASS
5	20775	25	#0	16QAM	5.99	≤13	PASS
5	21100	25	#0	QPSK	5.15	≤13	PASS
5	21100	25	#0	16QAM	5.83	≤13	PASS
5	21425	25	#0	QPSK	5.33	≤13	PASS
5	21425	25	#0	16QAM	6.04	≤13	PASS
10	20800	50	#0	QPSK	5.35	≤13	PASS
10	20800	50	#0	16QAM	6.06	≤13	PASS
10	21100	50	#0	QPSK	5.13	≤13	PASS
10	21100	50	#0	16QAM	5.94	≤13	PASS
10	21400	50	#0	QPSK	5.28	≤13	PASS
10	21400	50	#0	16QAM	6.06	≤13	PASS
15	20825	75	#0	QPSK	5.7	≤13	PASS
15	20825	75	#0	16QAM	6.17	≤13	PASS
15	21100	75	#0	QPSK	5.48	≤13	PASS
15	21100	75	#0	16QAM	6.02	≤13	PASS
15	21375	75	#0	QPSK	5.68	≤13	PASS
15	21375	75	#0	16QAM	6.12	≤13	PASS
20	20850	100	#0	QPSK	5.4	≤13	PASS
20	20850	100	#0	16QAM	6.16	≤13	PASS
20	21100	100	#0	QPSK	5.24	≤13	PASS
20	21100	100	#0	16QAM	6.04	≤13	PASS
20	21350	100	#0	QPSK	5.46	≤13	PASS
20	21350	100	#0	16QAM	6.16	≤13	PASS

LTE Band 40 Subset 1							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	Limit (dB)	Verdict
5	38725	25	#0	QPSK	7.96	≤13	PASS
5	38725	25	#0	16QAM	8.18	≤13	PASS
5	38750	25	#0	QPSK	7.50	≤13	PASS

5	38750	25	#0	16QAM	8.14	≤13	PASS
5	38775	25	#0	QPSK	8.09	≤13	PASS
5	38775	25	#0	16QAM	8.24	≤13	PASS
10	38750	50	#0	QPSK	8.09	≤13	PASS
10	38750	50	#0	16QAM	8.45	≤13	PASS

LTE Band 40 Subset 2							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	Limit (dB)	Verdict
5	39175	25	#0	QPSK	8.63	≤13	PASS
5	39175	25	#0	16QAM	8.54	≤13	PASS
5	39200	25	#0	QPSK	8.00	≤13	PASS
5	39200	25	#0	16QAM	9.66	≤13	PASS
5	39225	25	#0	QPSK	7.32	≤13	PASS
5	39225	25	#0	16QAM	8.40	≤13	PASS
10	39200	50	#0	QPSK	8.40	≤13	PASS
10	39200	50	#0	16QAM	8.26	≤13	PASS

LTE Band 41							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	Limit (dB)	Verdict
5	39675	25	#0	QPSK	10.42	≤13	PASS
5	39675	25	#0	16QAM	10.50	≤13	PASS
5	40620	25	#0	QPSK	8.86	≤13	PASS
5	40620	25	#0	16QAM	10.34	≤13	PASS
5	41565	25	#0	QPSK	8.97	≤13	PASS
5	41565	25	#0	16QAM	10.19	≤13	PASS
10	39700	50	#0	QPSK	8.76	≤13	PASS
10	39700	50	#0	16QAM	9.48	≤13	PASS
10	40620	50	#0	QPSK	8.91	≤13	PASS
10	40620	50	#0	16QAM	10.20	≤13	PASS
10	41540	50	#0	QPSK	10.13	≤13	PASS
10	41540	50	#0	16QAM	10.36	≤13	PASS
15	39725	75	#0	QPSK	9.57	≤13	PASS
15	39725	75	#0	16QAM	10.30	≤13	PASS
15	40620	75	#0	QPSK	9.23	≤13	PASS
15	40620	75	#0	16QAM	10.26	≤13	PASS
15	41515	75	#0	QPSK	9.24	≤13	PASS
15	41515	75	#0	16QAM	10.22	≤13	PASS
20	39750	100	#0	QPSK	9.74	≤13	PASS
20	39750	100	#0	16QAM	9.86	≤13	PASS
20	40620	100	#0	QPSK	9.05	≤13	PASS
20	40620	100	#0	16QAM	10.04	≤13	PASS

20	41490	100	#0	QPSK	9.03	≤13	PASS
20	41490	100	#0	16QAM	9.14	≤13	PASS

LTE Band 66							
Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	Limit (dB)	Verdict
1.4	131979	6	#0	QPSK	5.72	≤13	PASS
1.4	131979	6	#0	16QAM	6.44	≤13	PASS
1.4	132322	6	#0	QPSK	5.65	≤13	PASS
1.4	132322	6	#0	16QAM	6.47	≤13	PASS
1.4	132665	6	#0	QPSK	5.57	≤13	PASS
1.4	132665	6	#0	16QAM	6.22	≤13	PASS
3	131987	15	#0	QPSK	5.79	≤13	PASS
3	131987	15	#0	16QAM	6.58	≤13	PASS
3	132322	15	#0	QPSK	5.57	≤13	PASS
3	132322	15	#0	16QAM	6.42	≤13	PASS
3	132657	15	#0	QPSK	5.50	≤13	PASS
3	132657	15	#0	16QAM	6.26	≤13	PASS
5	131997	25	#0	QPSK	5.83	≤13	PASS
5	131997	25	#0	16QAM	6.48	≤13	PASS
5	132322	25	#0	QPSK	5.66	≤13	PASS
5	132322	25	#0	16QAM	6.39	≤13	PASS
5	132647	25	#0	QPSK	5.51	≤13	PASS
5	132647	25	#0	16QAM	6.24	≤13	PASS
10	132022	50	#0	QPSK	5.78	≤13	PASS
10	132022	50	#0	16QAM	6.50	≤13	PASS
10	132322	50	#0	QPSK	5.65	≤13	PASS
10	132322	50	#0	16QAM	6.44	≤13	PASS
10	132622	50	#0	QPSK	5.56	≤13	PASS
10	132622	50	#0	16QAM	6.32	≤13	PASS
15	132047	75	#0	QPSK	6.02	≤13	PASS
15	132047	75	#0	16QAM	6.54	≤13	PASS
15	132322	75	#0	QPSK	5.97	≤13	PASS
15	132322	75	#0	16QAM	6.48	≤13	PASS
15	132597	75	#0	QPSK	5.91	≤13	PASS
15	132597	75	#0	16QAM	6.40	≤13	PASS
20	132072	100	#0	QPSK	5.64	≤13	PASS
20	132072	100	#0	16QAM	6.47	≤13	PASS
20	132322	100	#0	QPSK	5.66	≤13	PASS
20	132322	100	#0	16QAM	6.44	≤13	PASS
20	132572	100	#0	QPSK	5.70	≤13	PASS
20	132572	100	#0	16QAM	6.39	≤13	PASS

6.5 Frequency Stability

WCDMA Band IV						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	BPSK	QPSK	BPSK	QPSK	
Normal (25℃)	Normal	15.36	2.48	0.00887	0.00143	PASS
Extreme (50℃)		12.08	17.27	0.00697	0.00997	PASS
Extreme (40℃)		14.72	7.51	0.00850	0.00433	PASS
Extreme (30℃)		12.75	2.39	0.00736	0.00138	PASS
Extreme (20℃)		7.38	5.92	0.00426	0.00342	PASS
Extreme (10℃)		9.39	16.18	0.00542	0.00934	PASS
Extreme (0℃)		12.99	3.00	0.00750	0.00173	PASS
Extreme (-10℃)		15.11	5.51	0.00872	0.00318	PASS
Extreme (-20℃)		3.65	15.05	0.00210	0.00869	PASS
Extreme (-30℃)		11.91	11.36	0.00687	0.00656	PASS
25℃	LV	8.60	11.59	0.00496	0.00669	PASS
	HV	2.03	5.28	0.00117	0.00305	PASS

	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz					
LTE Band 7	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	1.65	6.99	0.00065	0.00276	PASS
	Extreme (50℃)		6.14	9.58	0.00242	0.00378	PASS
	Extreme (40℃)		8.87	15.72	0.00350	0.00620	PASS
	Extreme (30℃)		11.84	5.88	0.00467	0.00232	PASS
	Extreme (20℃)		7.43	14.02	0.00293	0.00553	PASS
	Extreme (10℃)		16.62	14.01	0.00656	0.00553	PASS
	Extreme (0℃)		5.57	14.79	0.00220	0.00583	PASS
	Extreme (-10℃)		10.05	14.90	0.00397	0.00588	PASS
	Extreme (-20℃)		3.65	7.87	0.00144	0.00311	PASS
	Extreme (-30℃)		16.65	5.60	0.00657	0.00221	PASS
	25℃	LV	6.92	5.00	0.00273	0.00197	PASS
		HV	5.41	7.28	0.00213	0.00287	PASS
LTE Band 7	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	17.75	2.36	0.00700	0.00093	PASS
	Extreme (50℃)		7.94	16.13	0.00313	0.00636	PASS

	Extreme (40℃)		4.19	1.21	0.00165	0.00048	PASS
	Extreme (30℃)		9.78	12.55	0.00386	0.00495	PASS
	Extreme (20℃)		5.22	2.21	0.00206	0.00087	PASS
	Extreme (10℃)		1.03	3.98	0.00041	0.00157	PASS
	Extreme (0℃)		6.01	3.82	0.00237	0.00151	PASS
	Extreme (-10℃)		13.45	14.10	0.00530	0.00556	PASS
	Extreme (-20℃)		14.43	5.46	0.00569	0.00215	PASS
	Extreme (-30℃)		10.69	4.44	0.00422	0.00175	PASS
	25℃	LV	14.95	13.11	0.00590	0.00517	PASS
		HV	9.32	1.19	0.00368	0.00047	PASS
LTE Band 7	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz					
	Temperature	Voltage					
	Normal (25℃)	Normal	6.93	14.61	0.00273	0.00576	PASS
	Extreme (50℃)		14.03	10.77	0.00553	0.00425	PASS
	Extreme (40℃)		13.12	14.56	0.00518	0.00574	PASS
	Extreme (30℃)		6.42	3.09	0.00253	0.00122	PASS
	Extreme (20℃)		2.37	1.31	0.00093	0.00052	PASS
	Extreme (10℃)		12.23	6.48	0.00483	0.00256	PASS
	Extreme (0℃)		13.94	7.14	0.00550	0.00282	PASS
	Extreme (-10℃)		1.27	9.71	0.00050	0.00383	PASS
	Extreme (-20℃)		5.43	6.93	0.00214	0.00273	PASS
	Extreme (-30℃)		3.01	17.55	0.00119	0.00692	PASS
	25℃	LV	2.19	10.40	0.00087	0.00410	PASS
		HV	3.18	16.66	0.00125	0.00657	PASS
LTE Band 7	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz					
	Temperature	Voltage					
	Normal (25℃)	Normal	5.21	15.08	0.00206	0.00595	PASS
	Extreme (50℃)		8.94	6.16	0.00353	0.00243	PASS
	Extreme (40℃)		15.75	1.37	0.00621	0.00054	PASS
	Extreme (30℃)		15.72	5.37	0.00620	0.00212	PASS
	Extreme (20℃)		10.02	13.88	0.00395	0.00547	PASS
	Extreme (10℃)		6.91	2.73	0.00273	0.00108	PASS
	Extreme (0℃)		15.44	2.86	0.00609	0.00113	PASS
	Extreme (-10℃)		9.58	16.97	0.00378	0.00669	PASS
	Extreme (-20℃)		6.79	5.51	0.00268	0.00217	PASS
	Extreme (-30℃)		5.24	2.28	0.00207	0.00090	PASS
	25℃	LV	3.18	3.06	0.00125	0.00121	PASS
		HV	5.16	12.46	0.00204	0.00491	PASS

LTE Band 40 Subset 1	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
LTE Band 40 Subset 1	Normal (25℃)	Normal	9.14	10.00	0.00396	0.00433	PASS
	Extreme (50℃)		5.70	1.29	0.00247	0.00056	PASS
	Extreme (40℃)		9.84	3.28	0.00426	0.00142	PASS
	Extreme (30℃)		10.44	1.02	0.00452	0.00044	PASS
	Extreme (20℃)		17.56	9.38	0.00760	0.00406	PASS
	Extreme (10℃)		1.82	1.62	0.00079	0.00070	PASS
	Extreme (0℃)		6.26	15.48	0.00271	0.00670	PASS
	Extreme (-10℃)		15.54	17.73	0.00673	0.00767	PASS
	Extreme (-20℃)		3.63	11.65	0.00157	0.00504	PASS
	Extreme (-30℃)		14.87	16.22	0.00644	0.00702	PASS
	25℃	LV	5.84	2.19	0.00253	0.00095	PASS
		HV	8.99	1.67	0.00389	0.00072	PASS
LTE Band 40 Subset 1	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	9.80	2.42	0.00424	0.00105	PASS
	Extreme (50℃)		14.23	7.96	0.00616	0.00345	PASS
	Extreme (40℃)		3.98	13.33	0.00172	0.00577	PASS
	Extreme (30℃)		1.18	10.74	0.00051	0.00465	PASS
	Extreme (20℃)		8.21	15.05	0.00356	0.00652	PASS
	Extreme (10℃)		12.60	12.60	0.00545	0.00545	PASS
	Extreme (0℃)		17.89	17.97	0.00774	0.00778	PASS
	Extreme (-10℃)		3.58	8.03	0.00155	0.00348	PASS
	Extreme (-20℃)		11.86	7.41	0.00513	0.00321	PASS
	Extreme (-30℃)		2.15	11.21	0.00093	0.00485	PASS
	25℃	LV	13.71	14.86	0.00594	0.00643	PASS
		HV	1.36	3.53	0.00059	0.00153	PASS

LTE Band 40 Subset 2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
LTE Band 40 Subset 2	Normal (25℃)	Normal	3.03	16.73	0.00128	0.00710	PASS
	Extreme (50℃)		1.74	16.92	0.00074	0.00719	PASS
	Extreme (40℃)		8.98	8.10	0.00381	0.00344	PASS
	Extreme (30℃)		3.55	15.68	0.00151	0.00666	PASS
	Extreme (20℃)		9.38	16.20	0.00398	0.00688	PASS

	Extreme (10℃)		1.98	11.93	0.00084	0.00507	PASS
	Extreme (0℃)		14.00	11.26	0.00595	0.00478	PASS
	Extreme (-10℃)		17.64	11.16	0.00749	0.00474	PASS
	Extreme (-20℃)		5.75	3.36	0.00244	0.00143	PASS
	Extreme (-30℃)		3.46	15.42	0.00147	0.00655	PASS
	25℃	LV	13.89	5.18	0.00590	0.00220	PASS
		HV	5.44	9.65	0.00231	0.00410	PASS
LTE Band 40 Subset 2	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	8.14	4.44	0.00346	0.00188	PASS
	Extreme (50℃)		8.12	3.55	0.00345	0.00151	PASS
	Extreme (40℃)		2.38	8.13	0.00101	0.00345	PASS
	Extreme (30℃)		14.23	16.35	0.00604	0.00694	PASS
	Extreme (20℃)		9.00	2.50	0.00382	0.00106	PASS
	Extreme (10℃)		16.16	17.84	0.00686	0.00757	PASS
	Extreme (0℃)		2.28	16.61	0.00097	0.00705	PASS
	Extreme (-10℃)		6.45	17.12	0.00274	0.00727	PASS
	Extreme (-20℃)		15.33	3.90	0.00651	0.00166	PASS
	Extreme (-30℃)		17.01	16.97	0.00722	0.00721	PASS
	25℃	LV	16.55	3.84	0.00703	0.00163	PASS
		HV	8.12	8.68	0.00345	0.00369	PASS

LTE Band 41	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	10.67	8.97	0.00411	0.00346	PASS
	Extreme (50℃)		1.87	1.88	0.00072	0.00073	PASS
	Extreme (40℃)		2.58	16.28	0.00100	0.00628	PASS
	Extreme (30℃)		16.75	13.43	0.00646	0.00518	PASS
	Extreme (20℃)		4.54	13.88	0.00175	0.00535	PASS
	Extreme (10℃)		16.04	9.78	0.00619	0.00377	PASS
	Extreme (0℃)		1.52	10.07	0.00059	0.00388	PASS
	Extreme (-10℃)		2.79	5.30	0.00108	0.00204	PASS
	Extreme (-20℃)		15.80	12.41	0.00609	0.00479	PASS
	Extreme (-30℃)		11.17	4.71	0.00431	0.00182	PASS
	25℃	LV	1.64	11.39	0.00063	0.00439	PASS
		HV	4.91	6.04	0.00189	0.00233	PASS

LTE Band 41	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz					

	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	6.17	11.39	0.00238	0.00439	PASS
	Extreme (50℃)		17.42	10.21	0.00672	0.00394	PASS
	Extreme (40℃)		5.14	13.47	0.00198	0.00519	PASS
	Extreme (30℃)		14.94	8.61	0.00576	0.00332	PASS
	Extreme (20℃)		9.79	4.65	0.00377	0.00179	PASS
	Extreme (10℃)		9.49	16.65	0.00366	0.00642	PASS
	Extreme (0℃)		2.80	6.99	0.00108	0.00270	PASS
	Extreme (-10℃)		6.85	6.50	0.00264	0.00251	PASS
	Extreme (-20℃)		17.53	14.39	0.00676	0.00555	PASS
	Extreme (-30℃)		6.59	13.83	0.00254	0.00533	PASS
	25℃	LV	12.54	10.57	0.00484	0.00408	PASS
		HV	1.66	7.06	0.00064	0.00272	PASS
LTE Band 41	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	3.16	2.16	0.00122	0.00083	PASS
	Extreme (50℃)		5.95	15.41	0.00229	0.00594	PASS
	Extreme (40℃)		8.96	9.91	0.00345	0.00382	PASS
	Extreme (30℃)		7.14	6.62	0.00275	0.00255	PASS
	Extreme (20℃)		2.50	4.37	0.00096	0.00168	PASS
	Extreme (10℃)		1.79	16.64	0.00069	0.00642	PASS
	Extreme (0℃)		9.03	14.12	0.00348	0.00544	PASS
	Extreme (-10℃)		14.52	11.22	0.00560	0.00433	PASS
	Extreme (-20℃)		11.81	6.93	0.00455	0.00267	PASS
	Extreme (-30℃)		15.17	12.85	0.00585	0.00495	PASS
	25℃	LV	17.45	13.06	0.00673	0.00504	PASS
		HV	15.56	10.39	0.00600	0.00401	PASS
LTE Band 41	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	6.33	3.85	0.00244	0.00149	PASS
	Extreme (50℃)		3.88	5.24	0.00150	0.00202	PASS
	Extreme (40℃)		1.95	7.68	0.00075	0.00296	PASS
	Extreme (30℃)		14.11	14.93	0.00544	0.00576	PASS
	Extreme (20℃)		5.28	10.50	0.00203	0.00405	PASS
	Extreme (10℃)		12.91	8.29	0.00498	0.00320	PASS
	Extreme (0℃)		2.68	9.41	0.00103	0.00363	PASS
	Extreme (-10℃)		12.17	8.45	0.00469	0.00326	PASS
	Extreme (-20℃)		10.90	10.46	0.00420	0.00404	PASS
	Extreme (-30℃)		5.51	16.76	0.00213	0.00646	PASS

	25℃	LV	6.61	4.18	0.00255	0.00161	PASS
		HV	7.79	2.47	0.00300	0.00095	PASS

	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	1.4MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
LTE Band 66	Normal (25℃)	Normal	5.29	7.96	0.00303	0.00456	PASS
	Extreme (50℃)		7.20	9.75	0.00413	0.00559	PASS
	Extreme (40℃)		7.50	12.29	0.00430	0.00704	PASS
	Extreme (30℃)		17.68	10.97	0.01013	0.00628	PASS
	Extreme (20℃)		6.63	7.56	0.00380	0.00433	PASS
	Extreme (10℃)		7.97	10.74	0.00457	0.00615	PASS
	Extreme (0℃)		16.83	10.47	0.00965	0.00600	PASS
	Extreme (-10℃)		6.39	4.16	0.00366	0.00238	PASS
	Extreme (-20℃)		8.55	2.78	0.00490	0.00159	PASS
	Extreme (-30℃)		16.06	11.43	0.00920	0.00655	PASS
	25℃	LV	10.80	2.07	0.00619	0.00119	PASS
		HV	15.31	4.71	0.00878	0.00270	PASS
LTE Band 66	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	3MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	10.95	11.42	0.00627	0.00654	PASS
	Extreme (50℃)		11.37	14.71	0.00651	0.00843	PASS
	Extreme (40℃)		8.26	3.98	0.00474	0.00228	PASS
	Extreme (30℃)		10.71	9.72	0.00614	0.00557	PASS
	Extreme (20℃)		8.94	10.13	0.00512	0.00580	PASS
	Extreme (10℃)		10.63	12.36	0.00609	0.00708	PASS
	Extreme (0℃)		3.13	6.25	0.00179	0.00358	PASS
	Extreme (-10℃)		7.88	16.70	0.00452	0.00957	PASS
	Extreme (-20℃)		16.73	16.44	0.00959	0.00942	PASS
	Extreme (-30℃)		7.11	12.89	0.00408	0.00739	PASS
	25℃	LV	7.75	6.30	0.00444	0.00361	PASS
		HV	3.78	15.20	0.00216	0.00871	PASS
LTE Band 66	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	5MHz					
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	15.77	16.22	0.00904	0.00930	PASS
	Extreme (50℃)		15.89	10.27	0.00911	0.00589	PASS
	Extreme (40℃)		12.14	1.76	0.00696	0.00101	PASS
	Extreme (30℃)		11.56	12.95	0.00662	0.00742	PASS

	Extreme (20℃)		9.46	1.77	0.00542	0.00102	PASS
	Extreme (10℃)		16.79	4.97	0.00962	0.00285	PASS
	Extreme (0℃)		16.25	12.15	0.00931	0.00696	PASS
	Extreme (-10℃)		2.32	6.74	0.00133	0.00387	PASS
	Extreme (-20℃)		6.37	6.68	0.00365	0.00383	PASS
	Extreme (-30℃)		3.70	13.02	0.00212	0.00746	PASS
	25℃	LV	4.43	7.01	0.00254	0.00402	PASS
		HV	14.52	17.34	0.00832	0.00994	PASS
LTE Band 66	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	10MHz					
	Temperature	Voltage					
	Normal (25℃)	Normal	17.46	5.04	0.01000	0.00289	PASS
	Extreme (50℃)		13.46	4.58	0.00771	0.00263	PASS
	Extreme (40℃)		12.99	15.86	0.00745	0.00909	PASS
	Extreme (30℃)		14.21	9.52	0.00814	0.00546	PASS
	Extreme (20℃)		16.51	6.27	0.00946	0.00359	PASS
	Extreme (10℃)		9.21	16.04	0.00528	0.00919	PASS
	Extreme (0℃)		12.03	1.82	0.00689	0.00104	PASS
	Extreme (-10℃)		13.60	16.86	0.00779	0.00966	PASS
	Extreme (-20℃)		14.42	13.44	0.00826	0.00770	PASS
	Extreme (-30℃)		10.03	14.55	0.00575	0.00834	PASS
	25℃	LV	13.12	12.41	0.00752	0.00711	PASS
		HV	2.23	5.65	0.00128	0.00324	PASS
LTE Band 66	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	15MHz					
	Temperature	Voltage					
	Normal (25℃)	Normal	16.91	7.39	0.00969	0.00423	PASS
	Extreme (50℃)		14.15	14.84	0.00811	0.00851	PASS
	Extreme (40℃)		5.54	7.05	0.00318	0.00404	PASS
	Extreme (30℃)		9.47	1.84	0.00543	0.00105	PASS
	Extreme (20℃)		12.03	2.59	0.00690	0.00148	PASS
	Extreme (10℃)		2.01	8.61	0.00115	0.00493	PASS
	Extreme (0℃)		11.04	15.20	0.00633	0.00871	PASS
	Extreme (-10℃)		16.79	5.30	0.00962	0.00304	PASS
	Extreme (-20℃)		1.56	6.22	0.00089	0.00357	PASS
	Extreme (-30℃)		13.90	2.39	0.00797	0.00137	PASS
	25℃	LV	4.11	11.31	0.00236	0.00648	PASS
		HV	14.10	14.08	0.00808	0.00807	PASS
LTE Band 66	Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
	BANDWIDTH	20MHz					

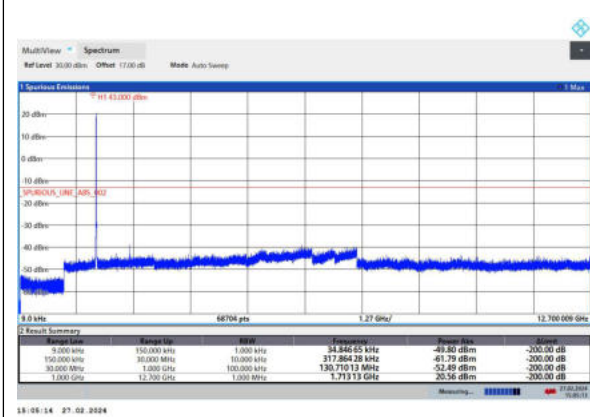
	Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
	Normal (25℃)	Normal	15.20	13.69	0.00871	0.00785	PASS
	Extreme (50℃)		16.85	11.75	0.00966	0.00674	PASS
	Extreme (40℃)		11.01	6.84	0.00631	0.00392	PASS
	Extreme (30℃)		4.65	6.59	0.00266	0.00377	PASS
	Extreme (20℃)		17.83	12.63	0.01022	0.00724	PASS
	Extreme (10℃)		1.06	8.68	0.00061	0.00498	PASS
	Extreme (0℃)		14.45	11.12	0.00828	0.00637	PASS
	Extreme (-10℃)		4.21	5.97	0.00241	0.00342	PASS
	Extreme (-20℃)		10.43	8.79	0.00597	0.00504	PASS
	Extreme (-30℃)		9.42	4.49	0.00540	0.00258	PASS
	25℃	LV	10.90	10.19	0.00624	0.00584	PASS
		HV	3.12	4.66	0.00179	0.00267	PASS

6.6 Spurious Emissions at Antenna Terminals

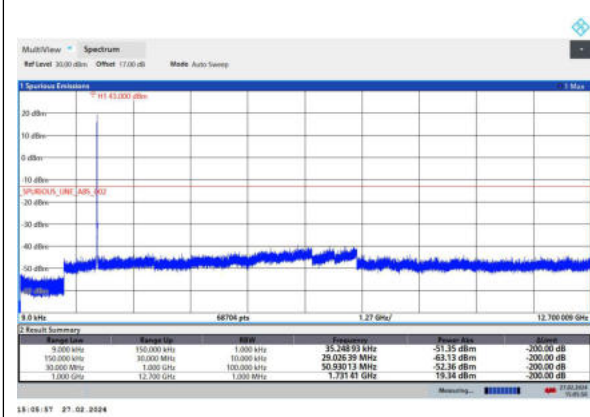
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

The signal beyond the limit is carrier.

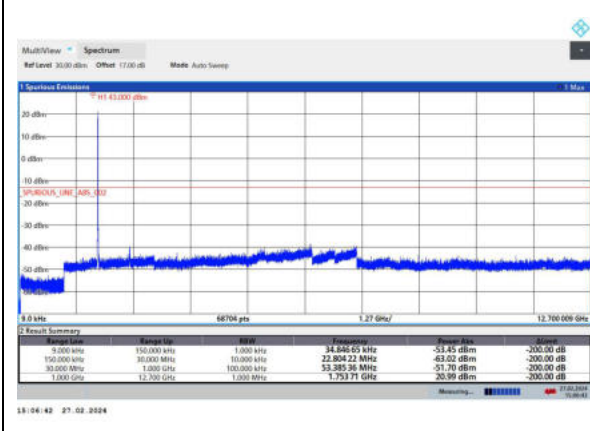
WCDMA Band IV CH-Low 9kHz~12.7GHz



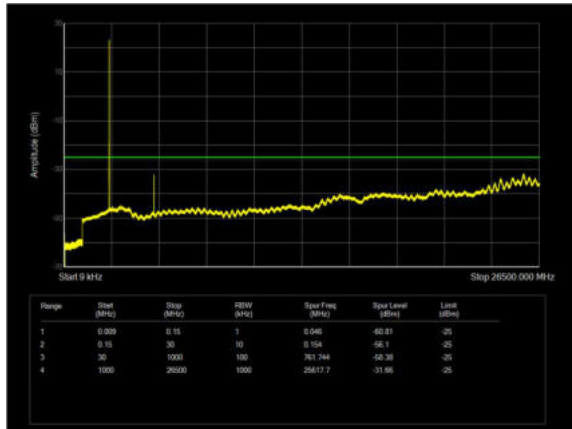
WCDMA Band IV CH-Middle 9kHz~12.7GHz



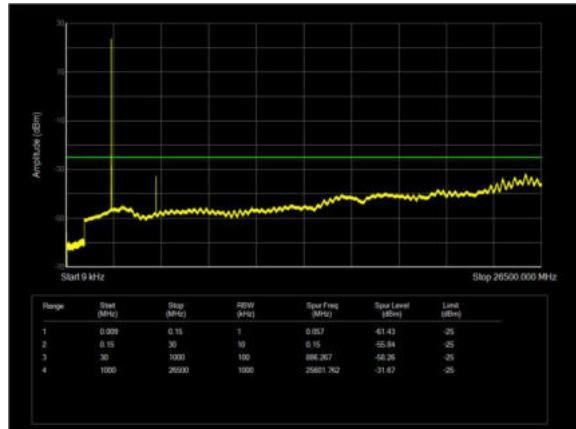
WCDMA Band IV CH-High 9kHz~12.7GHz



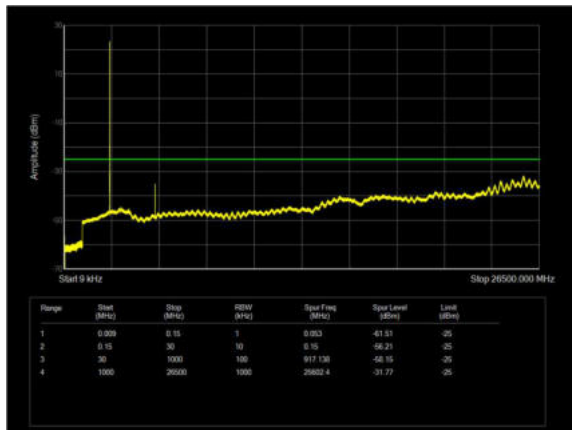
LTE Band 7 5MHz CH- Low 9kHz~20GHz



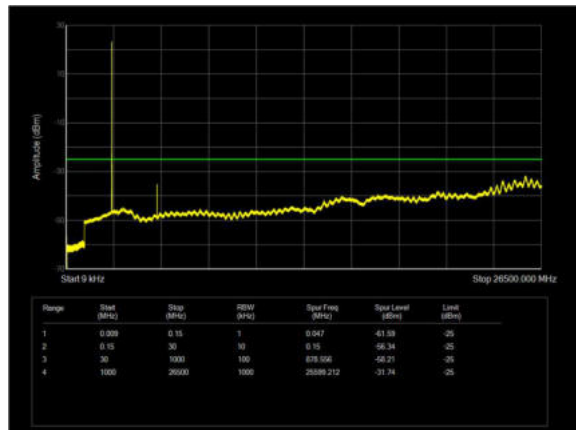
LTE Band 7 10MHz CH-Low 9kHz~20GHz



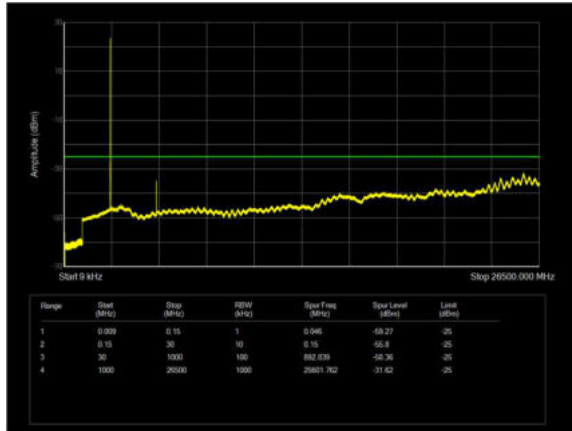
LTE Band 7 5MHz CH- Middle 9kHz~20GHz



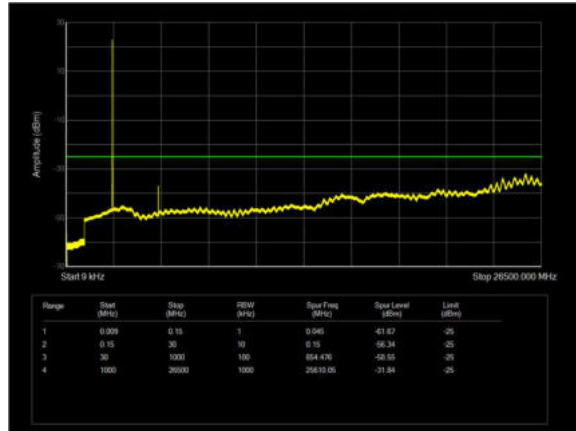
LTE Band 7 10MHz CH- Middle 9kHz~20GHz



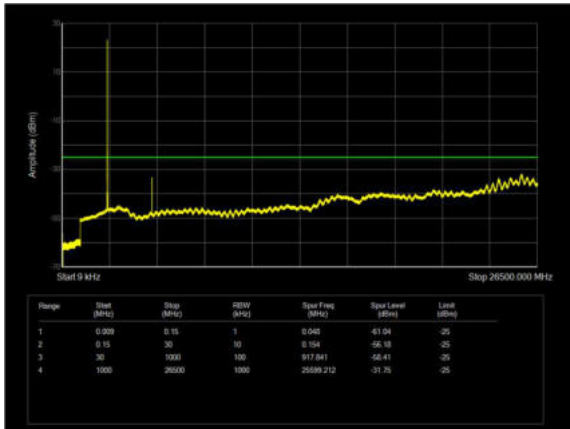
LTE Band 7 5MHz CH-High 9kHz~20GHz



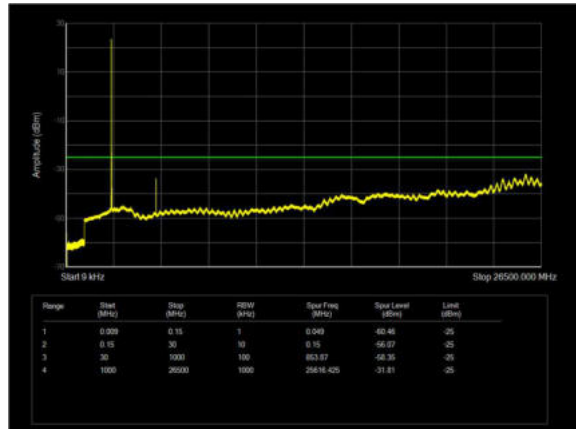
LTE Band 7 10MHz CH- High 9kHz~20GHz



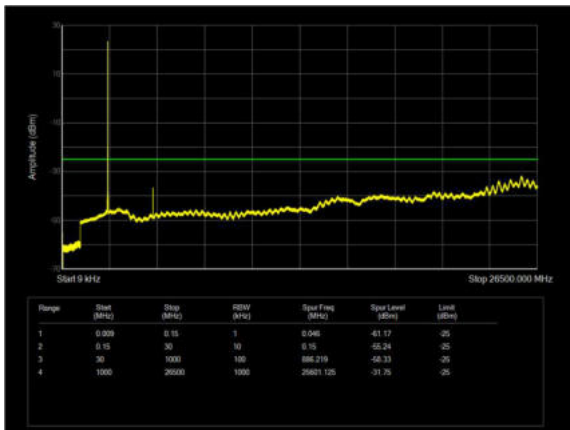
LTE Band 7 15MHz CH- Low 9kHz~20GHz



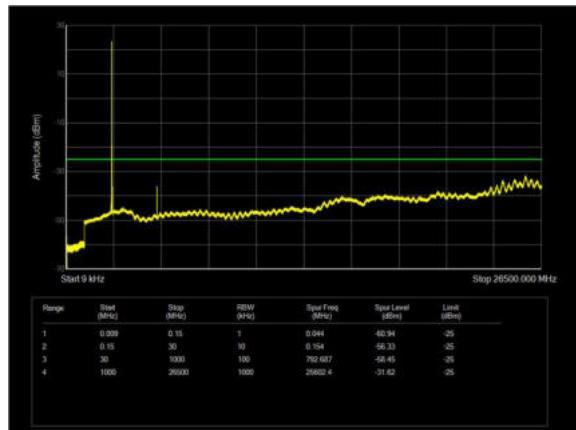
LTE Band 7 20MHz CH-Low 9kHz~20GHz



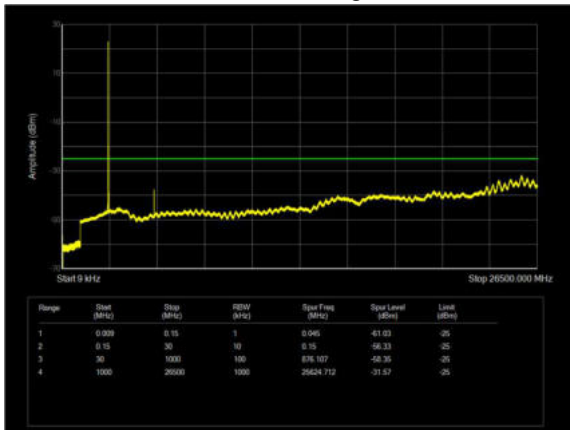
LTE Band 7 15MHz CH- Middle 9kHz~20GHz



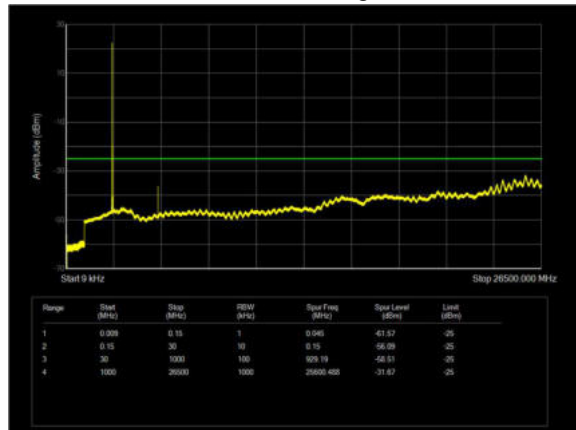
LTE Band 7 20MHz CH- Middle 9kHz~20GHz



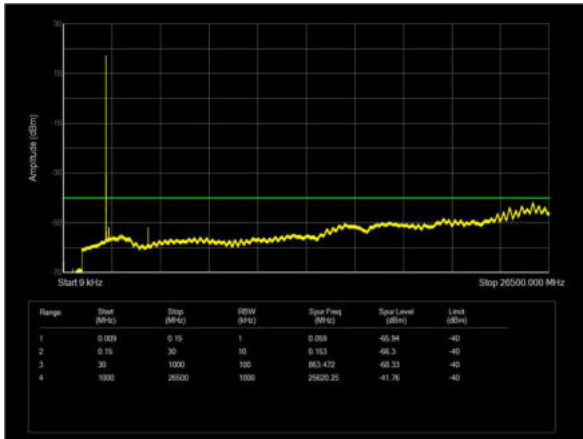
LTE Band 7 15MHz CH-High 9kHz~20GHz



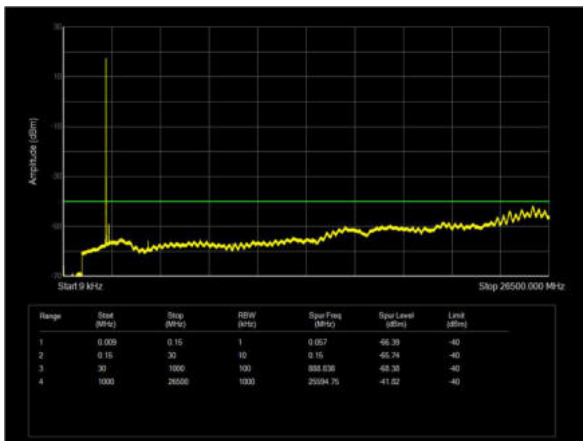
LTE Band 7 20MHz CH- High 9kHz~20GHz



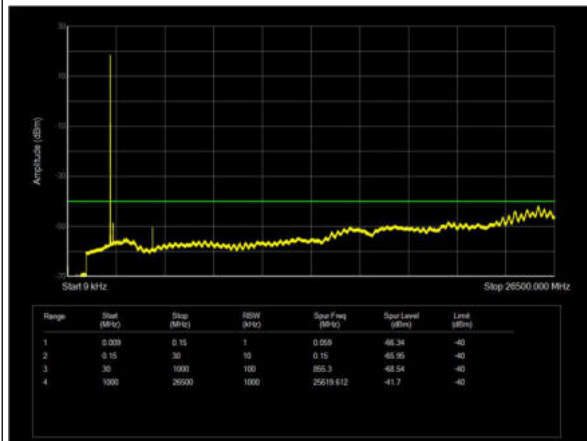
LTE Band 40 Subset 1 5MHz CH-Low
9kHz ~26.5GHz



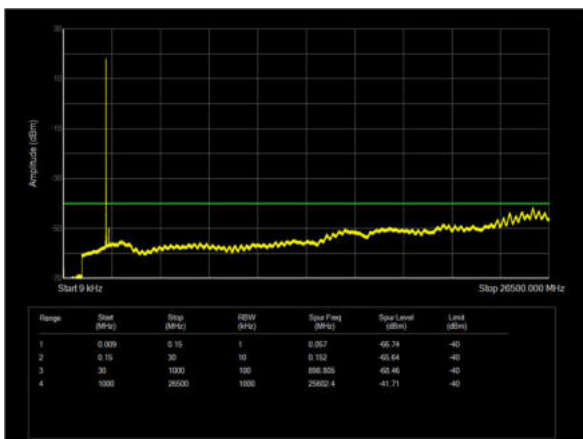
LTE Band 40 Subset 1 5MHz CH-Middle
9kHz ~26.5GHz



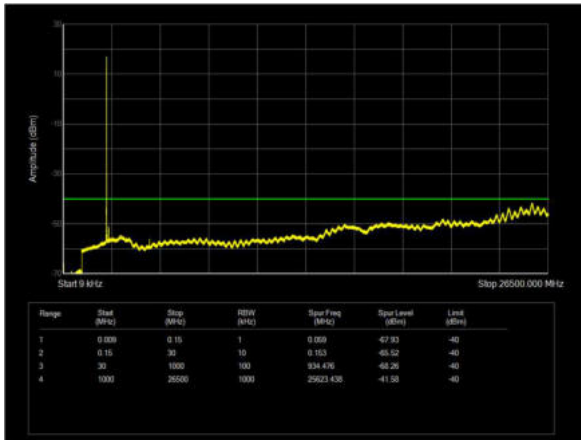
LTE Band 40 Subset 1 10MHz CH-Middle
9kHz ~26.5GHz



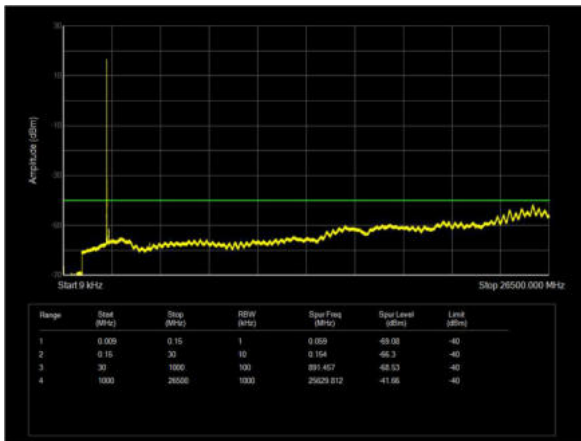
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9kHz ~26.5GHz



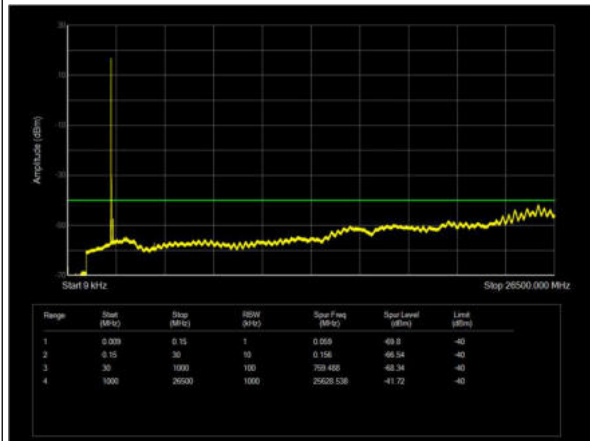
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9kHz ~26.5GHz



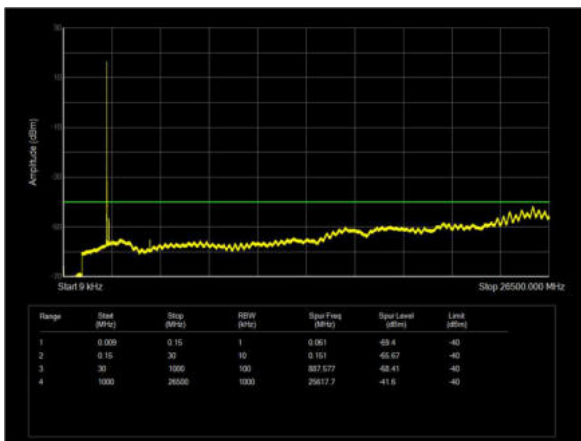
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9kHz ~26.5GHz



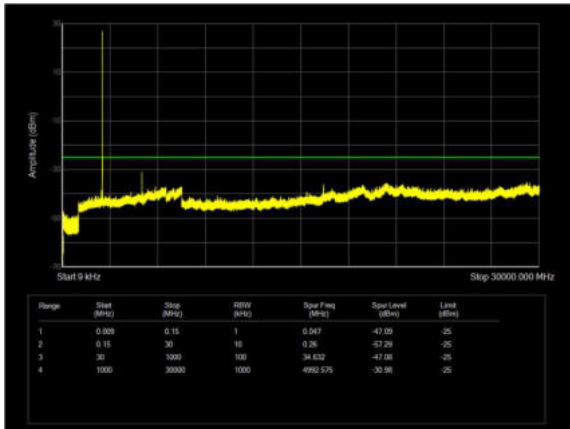
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9kHz ~26.5GHz



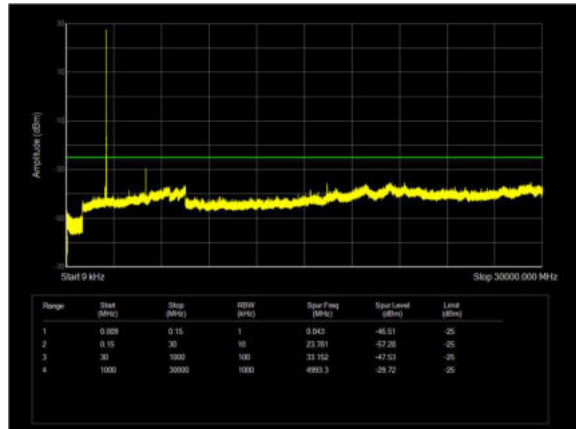
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9kHz ~26.5GHz



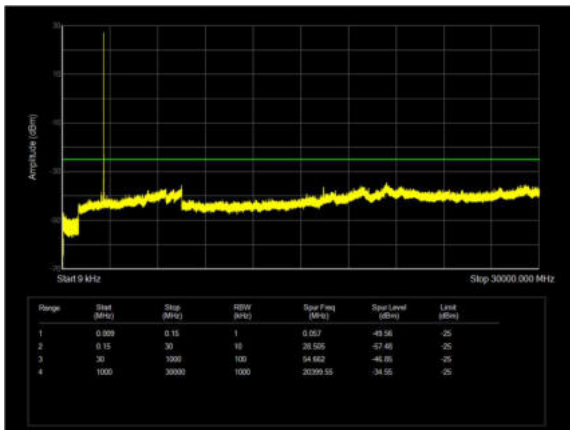
LTE Band 41 5MHz CH- Low 9kHz~30GHz



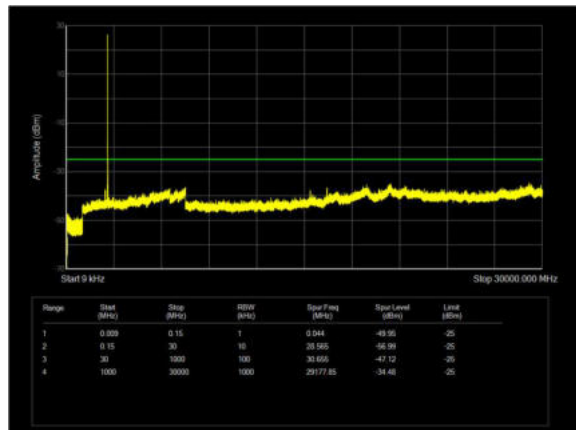
LTE Band 41 10MHz CH-Low 9kHz~30GHz



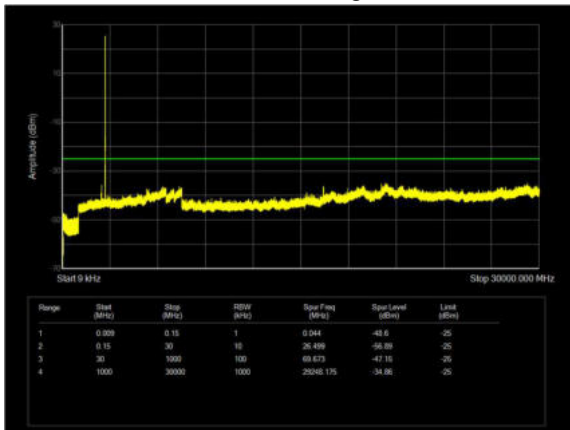
LTE Band 41 5MHz CH- Middle 9kHz~30GHz



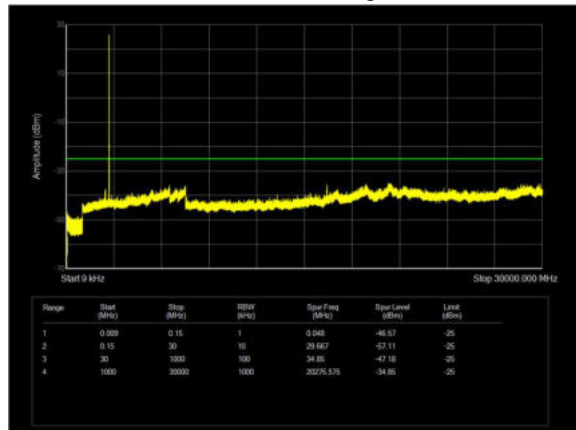
LTE Band 41 10MHz CH- Middle 9kHz~30GHz



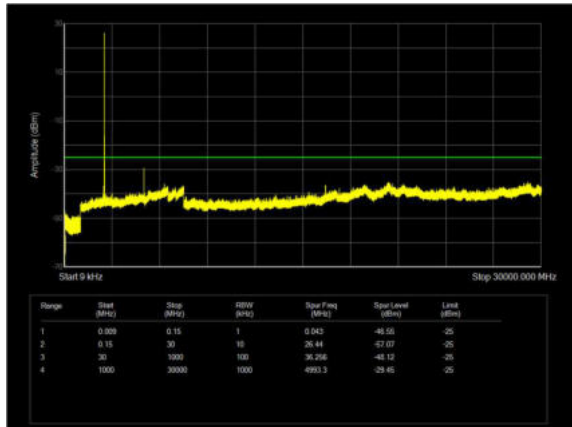
LTE Band 41 5MHz CH-High 9kHz~30GHz



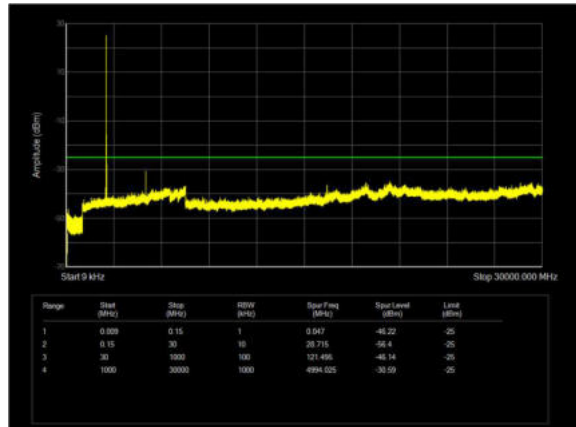
LTE Band 41 10MHz CH- High 9kHz~30GHz



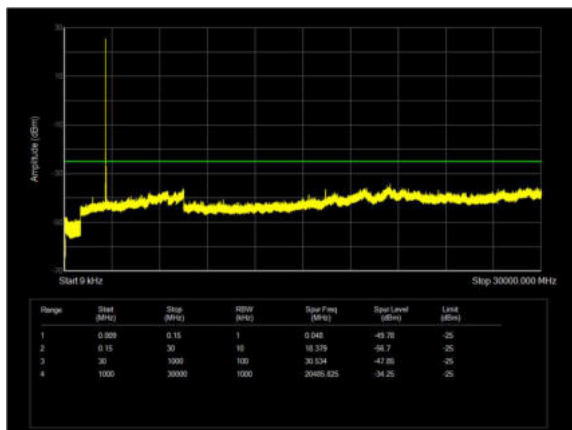
LTE Band 41 15MHz CH- Low 9kHz~30GHz



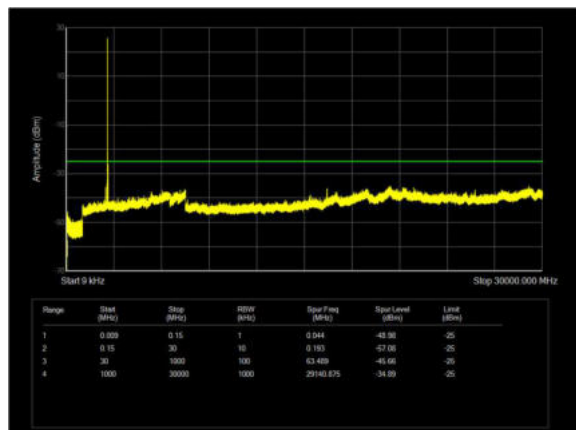
LTE Band 41 20MHz CH-Low 9kHz~30GHz



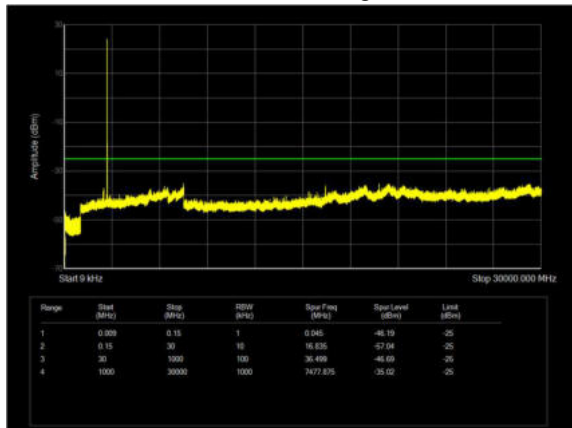
LTE Band 41 15MHz CH- Middle 9kHz~30GHz



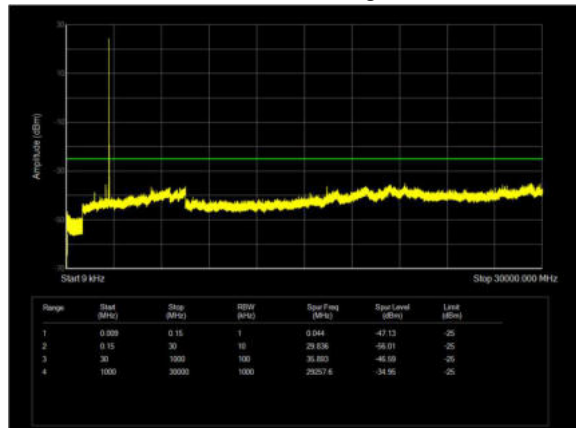
LTE Band 41 20MHz CH- Middle 9kHz~30GHz



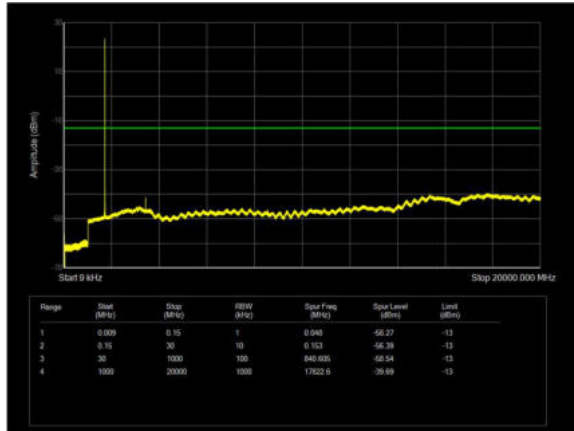
LTE Band 41 15MHz CH-High 9kHz~30GHz



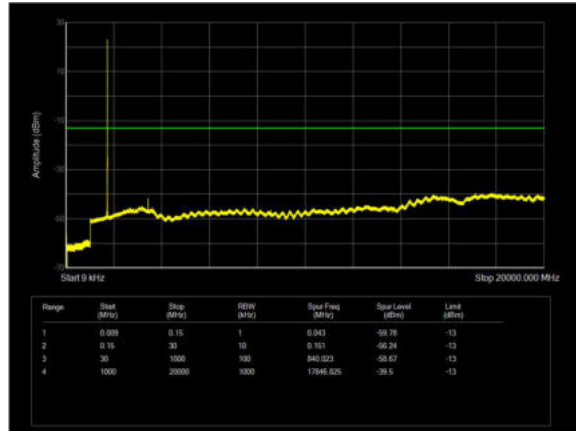
LTE Band 41 20MHz CH- High 9kHz~30GHz



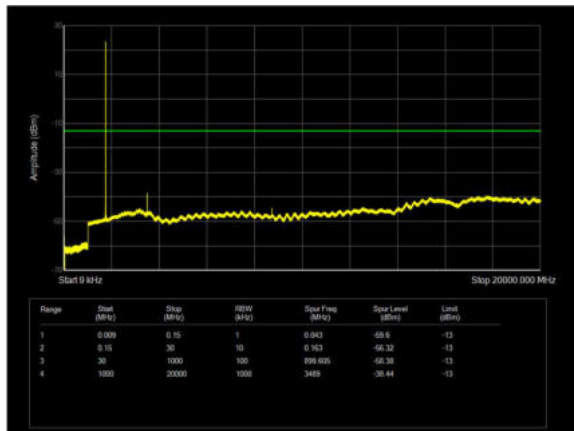
LTE Band 66 1.4MHz CH-Low 9kHz ~20GHz



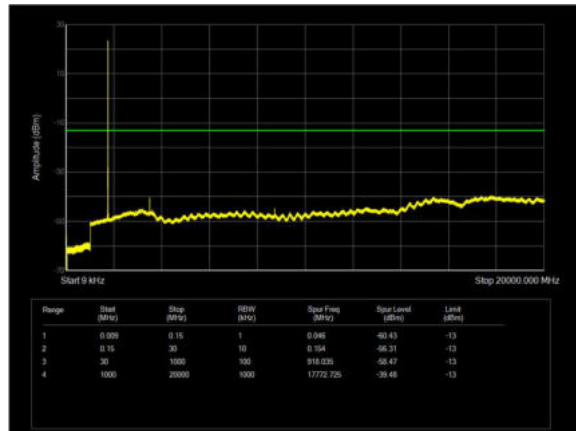
LTE Band 66 3MHz CH-Low 9kHz ~20GHz



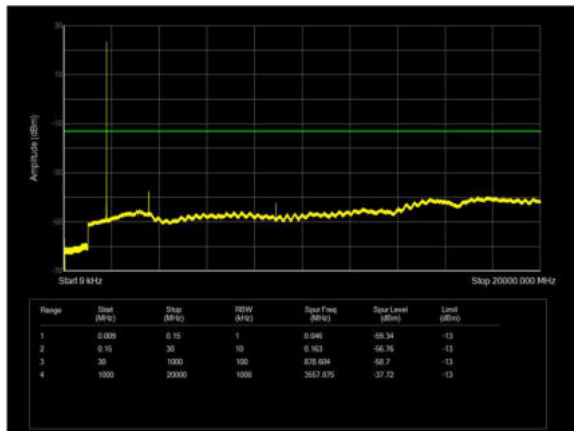
LTE Band 66 1.4MHz CH-Middle 9kHz ~20GHz



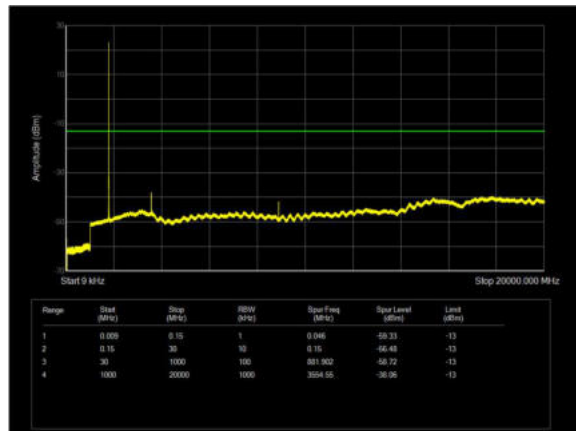
LTE Band 66 3MHz CH-Middle 9kHz ~20GHz



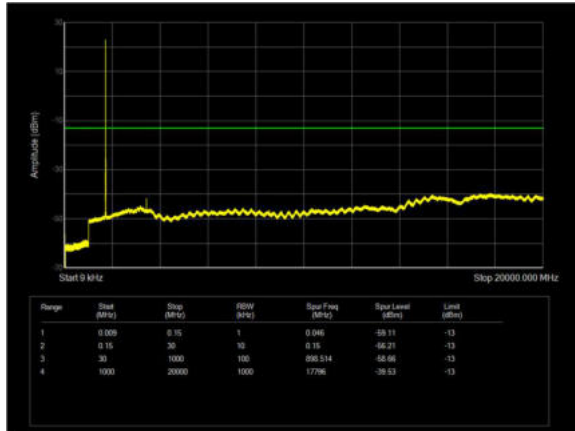
LTE Band 66 1.4MHz CH-High 9kHz ~20GHz



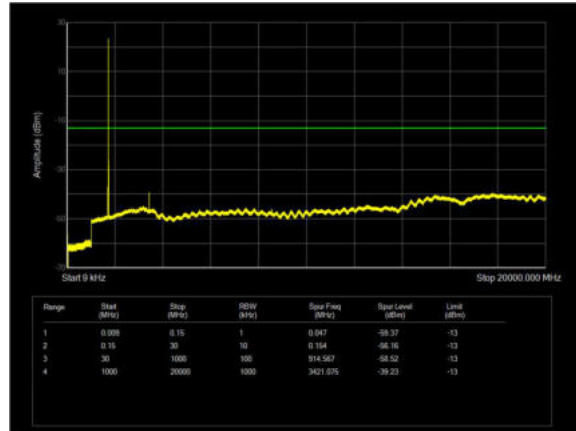
LTE Band 66 3MHz CH-High 9kHz ~20GHz



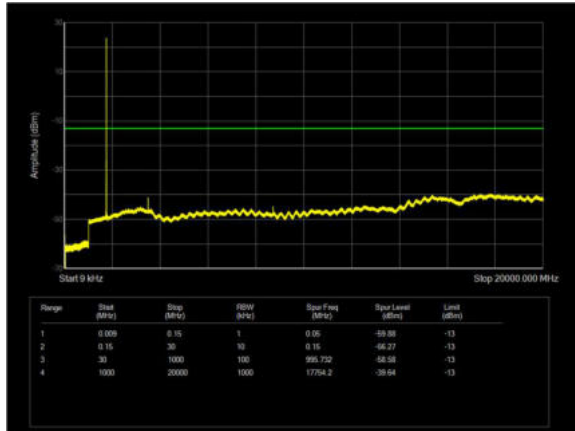
LTE Band 66 5MHz CH-Low 9kHz ~20GHz



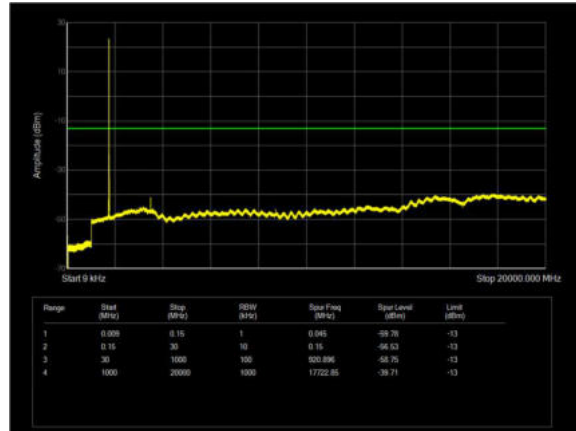
LTE Band 66 10MHz CH-Low 9kHz ~20GHz



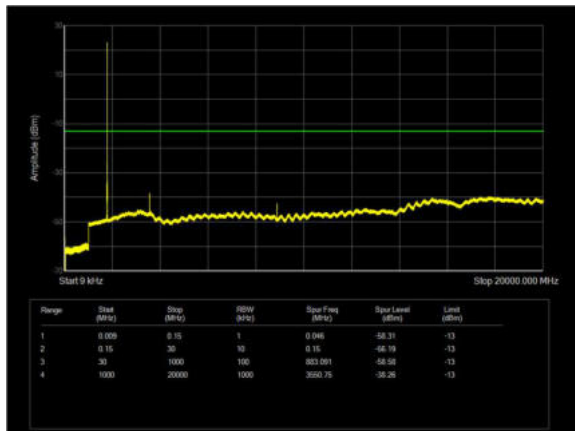
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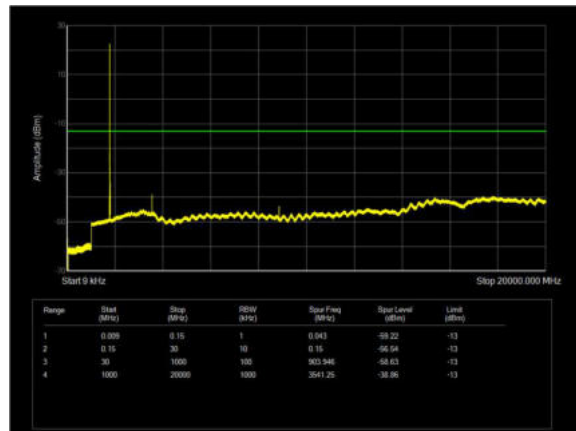
LTE Band 66 10MHz CH-Middle 9kHz ~20GHz



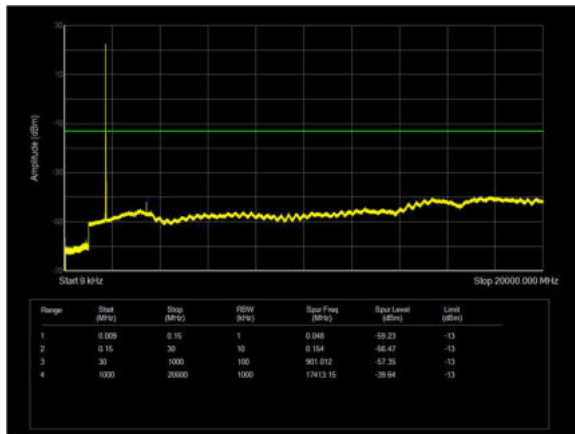
LTE Band 66 5MHz CH-High 9kHz ~20GHz



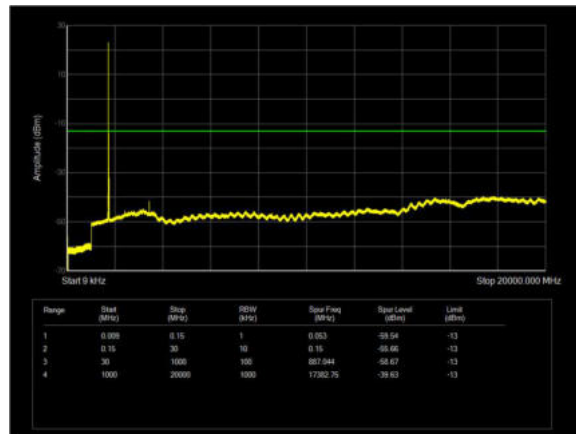
LTE Band 66 10MHz CH-High 9kHz ~20GHz



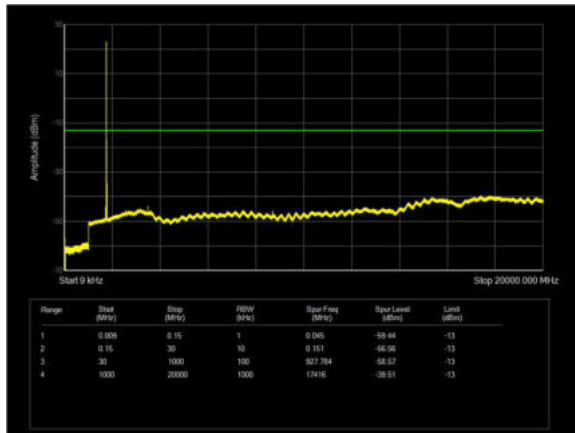
LTE Band 66 15MHz CH-Low 9kHz ~20GHz



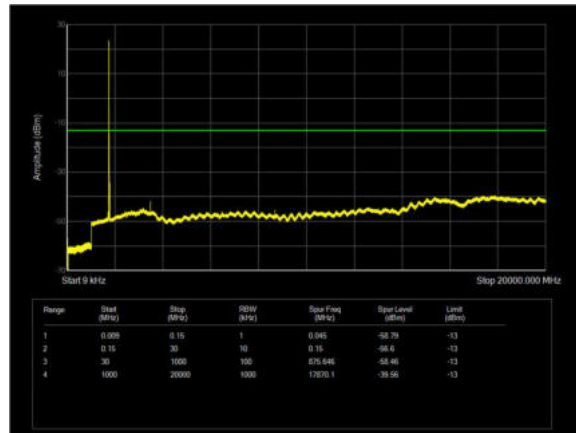
LTE Band 66 20MHz CH-Low 9kHz ~20GHz



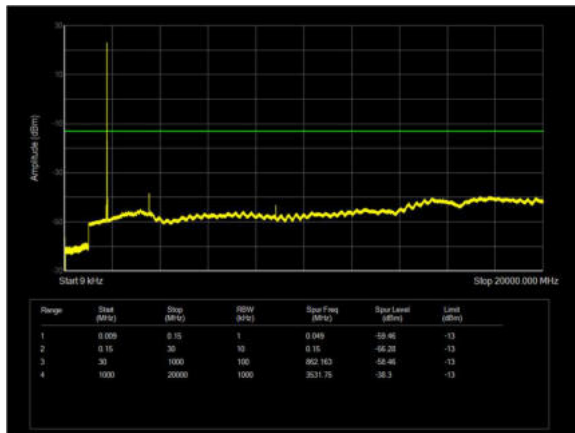
LTE Band 66 15MHz CH-Middle 9kHz ~20GHz



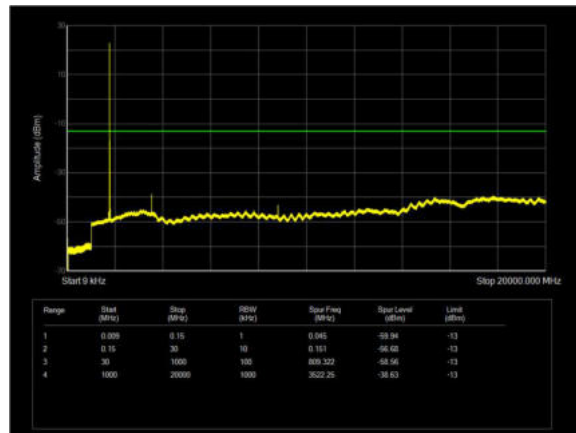
LTE Band 66 20MHz CH-Middle 9kHz ~20GHz



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



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



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.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.20	-40.23	2.70	12.70	Horizontal	-30.23	-13.00	17.23	315
3	5197.80	-61.95	3.20	12.50	Horizontal	-52.65	-13.00	39.65	46
4	6930.40	-48.98	4.20	11.80	Horizontal	-41.38	-13.00	28.38	2
5	8663.00	-47.83	4.40	12.50	Horizontal	-39.73	-13.00	26.73	147
6	10395.60	-61.83	4.70	11.30	Horizontal	-55.23	-13.00	42.23	90
7	12128.20	-64.32	5.20	13.80	Horizontal	-55.72	-13.00	42.72	14
8	13860.80	-57.01	5.70	11.30	Horizontal	-51.41	-13.00	38.41	113
9	15593.40	-67.00	6.10	16.80	Horizontal	-56.30	-13.00	43.30	315
10	17326.00	-61.94	6.10	14.20	Horizontal	-53.84	-13.00	40.84	46
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 7 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.00	-49.87	3.40	12.50	Variant	-40.77	-25.00	15.77	172
3	7597.50	-53.89	4.40	12.20	Variant	-46.09	-25.00	21.09	9
4	10130.00	-51.25	4.70	11.30	Variant	-44.65	-25.00	19.65	246
5	12662.50	-54.69	5.40	13.20	Variant	-46.89	-25.00	21.89	93
6	15195.00	-51.95	6.10	13.10	Variant	-44.95	-25.00	19.95	45
7	17727.50	-52.04	6.10	14.20	Variant	-43.94	-25.00	18.94	135
8	20260.00	--	--	--	--	--	--	--	--
9	22792.50	--	--	--	--	--	--	--	--
10	25325.00	--	--	--	--	--	--	--	--
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 Variant position.									

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5050.00	-49.07	3.40	12.50	Variant	-39.97	-25.00	14.97	170
3	7575.00	-50.18	4.40	12.20	Variant	-42.38	-25.00	17.38	22
4	10100.00	-50.20	4.70	11.30	Variant	-43.60	-25.00	18.60	4
5	12625.00	-52.67	5.40	13.20	Variant	-44.87	-25.00	19.87	256
6	15150.00	-53.08	6.10	13.10	Variant	-46.08	-25.00	21.08	93
7	17675.00	-52.87	6.10	14.20	Variant	-44.77	-25.00	19.77	146
8	20200.00	--	--	--	--	--	--	--	--
9	22725.00	--	--	--	--	--	--	--	--
10	25250.00	--	--	--	--	--	--	--	--

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 Variant position.

LTE Band 40 Subset 1 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4615.00	-55.72	3.20	12.50	Vertical	-46.42	-40.00	6.42	150
3	6922.50	-49.92	4.40	12.30	Vertical	-42.02	-40.00	2.02	100
4	9230.00	-50.33	4.70	11.80	Vertical	-43.23	-40.00	3.23	143
5	11537.50	-50.98	5.40	14.00	Vertical	-42.38	-40.00	2.38	154
6	13845.00	-60.05	6.10	16.80	Vertical	-49.35	-40.00	9.35	145
7	16152.50	-60.18	5.70	14.15	Vertical	-51.73	-40.00	11.73	156
8	18460.00	--	--	--	--	--	--	--	--
9	20767.50	--	--	--	--	--	--	--	--
10	23075.00	--	--	--	--	--	--	--	--

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 40 Subset 1 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4610.00	-54.47	3.20	12.50	Vertical	-45.17	-40.00	5.17	166
3	6915.00	-50.42	4.40	12.30	Vertical	-42.52	-40.00	2.52	308
4	9220.00	-48.70	4.70	11.80	Vertical	-41.60	-40.00	1.60	127
5	11525.00	-51.68	5.40	14.00	Vertical	-43.08	-40.00	3.08	137
6	13830.00	-62.45	6.10	16.80	Vertical	-51.75	-40.00	11.75	46
7	16135.00	-60.40	5.70	14.15	Vertical	-51.95	-40.00	11.95	225
8	18440.00	--	--	--	--	--	--	--	--
9	20745.00	--	--	--	--	--	--	--	--
10	23050.00	--	--	--	--	--	--	--	--

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 40 Subset 2 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4705.00	-60.71	3.20	12.50	Vertical	-51.41	-40.00	11.41	144
3	7057.50	-52.00	4.40	12.30	Vertical	-44.10	-40.00	4.10	12
4	9410.00	-54.96	4.70	11.80	Vertical	-47.86	-40.00	7.86	138
5	11762.50	-55.96	5.40	14.00	Vertical	-47.36	-40.00	7.36	313
6	14115.00	-60.42	6.10	16.80	Vertical	-49.72	-40.00	9.72	314
7	16467.50	-61.08	5.70	14.15	Vertical	-52.63	-40.00	12.63	305
8	18820.00	--	--	--	--	--	--	--	--
9	21172.50	--	--	--	--	--	--	--	--
10	23525.00	--	--	--	--	--	--	--	--

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 40 Subset 2 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	4700.00	-61.07	3.20	12.50	Vertical	-51.77	-40.00	11.77	174
3	7050.00	-48.54	4.40	12.30	Vertical	-40.64	-40.00	0.64	31
4	9400.00	-53.93	4.70	11.80	Vertical	-46.83	-40.00	6.83	314
5	11750.00	-54.45	5.40	14.00	Vertical	-45.85	-40.00	5.85	160
6	14100.00	-60.09	6.10	16.80	Vertical	-49.39	-40.00	9.39	181
7	16450.00	-60.63	5.70	14.15	Vertical	-52.18	-40.00	12.18	170
8	18800.00	--	--	--	--	--	--	--	--
9	21150.00	--	--	--	--	--	--	--	--
10	23500.00	--	--	--	--	--	--	--	--
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 41 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5181.00	-42.22	3.20	12.50	Vertical	-32.92	-25.00	7.92	314
3	7771.50	-36.49	4.40	12.30	Vertical	-28.59	-25.00	3.59	216
4	10362.00	-52.71	4.70	11.80	Vertical	-45.61	-25.00	20.61	23
5	12952.50	-45.34	5.40	14.00	Vertical	-36.74	-25.00	11.74	312
6	15543.00	-57.72	6.10	16.80	Vertical	-47.02	-25.00	22.02	13
7	18133.50	-41.37	5.70	14.15	Vertical	-32.92	-25.00	7.92	314
8	20724.00		--	--	--	--	--	--	--
9	23314.50		--	--	--	--	--	--	--
10	25905.00		--	--	--	--	--	--	--
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 41 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5166.00	-43.31	3.20	12.50	Vertical	-34.01	-25.00	9.01	0
3	7749.00	-35.45	4.40	12.30	Vertical	-27.55	-25.00	2.55	205
4	10332.00	-50.44	4.70	11.80	Vertical	-43.34	-25.00	18.34	13
5	12915.00	-50.91	5.40	14.00	Vertical	-42.31	-25.00	17.31	269
6	15498.00	-56.50	6.10	16.80	Vertical	-45.80	-25.00	20.80	133
7	18081.00		--	--	--	--	--	--	--
8	20664.00		--	--	--	--	--	--	--
9	23247.00		--	--	--	--	--	--	--
10	25830.00		--	--	--	--	--	--	--

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 66 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3488.60	-50.74	2.70	12.70	Vertical	-40.74	-13.00	27.74	129
3	5232.90	-52.43	3.20	12.50	Vertical	-43.13	-13.00	30.13	166
4	6977.20	-41.32	4.20	11.80	Vertical	-33.72	-13.00	20.72	101
5	8721.50	-34.92	4.40	12.50	Vertical	-26.82	-13.00	13.82	25
6	10465.80	-62.81	4.70	11.80	Vertical	-55.71	-13.00	42.71	31
7	12210.10	-58.67	5.20	13.80	Vertical	-50.07	-13.00	37.07	180
8	13954.40	-54.79	5.70	13.20	Vertical	-47.29	-13.00	34.29	168
9	15698.70	-67.76	6.10	16.80	Vertical	-57.06	-13.00	44.06	64
10	17443.00	-62.07	6.10	14.20	Vertical	-53.97	-13.00	40.97	306

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 66 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3485.00	-50.15	2.70	12.70	Vertical	-40.15	-13.00	27.15	315
3	5227.50	-51.24	3.20	12.50	Vertical	-41.94	-13.00	28.94	151
4	6970.00	-41.67	4.20	11.80	Vertical	-34.07	-13.00	21.07	112
5	8712.50	-35.24	4.40	12.50	Vertical	-27.14	-13.00	14.14	136
6	10455.00	-62.25	4.70	11.80	Vertical	-55.15	-13.00	42.15	63
7	12197.50	-59.32	5.20	13.80	Vertical	-50.72	-13.00	37.72	225
8	13940.00	-58.85	5.70	13.20	Vertical	-51.35	-13.00	38.35	144
9	15682.50	-67.33	6.10	16.80	Vertical	-56.63	-13.00	43.63	30
10	17425.00	-62.33	6.10	14.20	Vertical	-54.23	-13.00	41.23	186
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 66 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3470.00	-50.67	2.70	12.70	Vertical	-40.67	-13.00	27.67	121
3	5205.00	-53.48	3.20	12.50	Vertical	-44.18	-13.00	31.18	178
4	6940.00	-42.73	4.20	11.80	Vertical	-35.13	-13.00	22.13	309
5	8675.00	-35.92	4.40	12.50	Vertical	-27.82	-13.00	14.82	128
6	10410.00	-62.53	4.70	11.80	Vertical	-55.43	-13.00	42.43	0
7	12145.00	-60.01	5.20	13.80	Vertical	-51.41	-13.00	38.41	93
8	13880.00	-55.72	5.70	13.20	Vertical	-48.22	-13.00	35.22	46
9	15615.00	-67.41	6.10	16.80	Vertical	-56.71	-13.00	43.71	155
10	17350.00	-61.78	6.10	14.20	Vertical	-53.68	-13.00	40.68	314
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	582261194500 10	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	2023-12-05	2024-12-04
Radiated Spurious Emission					
Spectrum Analyzer	R&S	FSV30	100815	2023-12-05	2024-12-04
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28
Horn Antenna	SCHWARZBECK	BBHA 9120D	1594	2023-12-05	2026-12-04
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 are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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