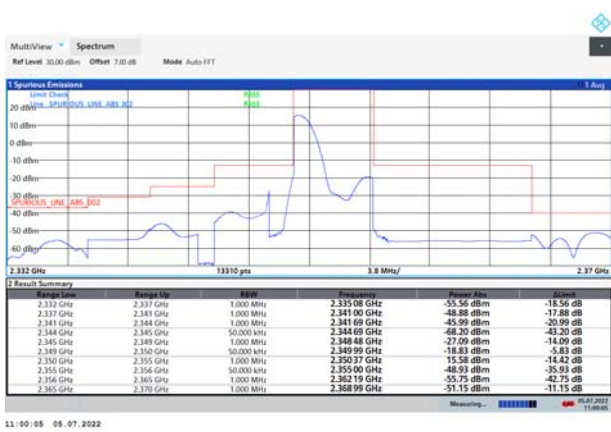


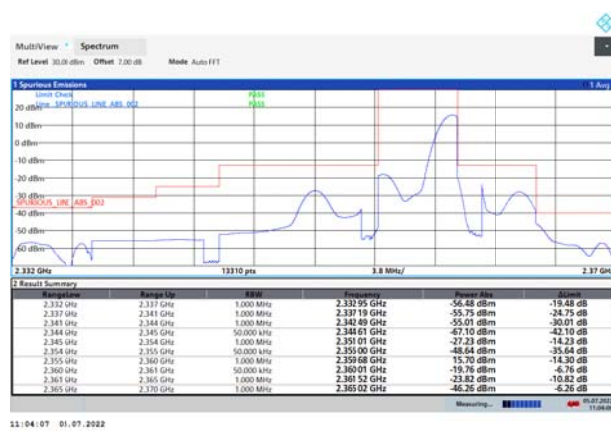


LTE Band 40 Subset 2 QPSK 5MHz CH-Low, 1 RB



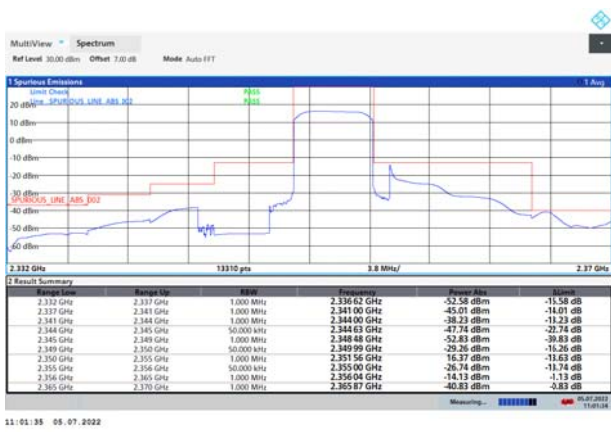
11:00:05 05.07.2022

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



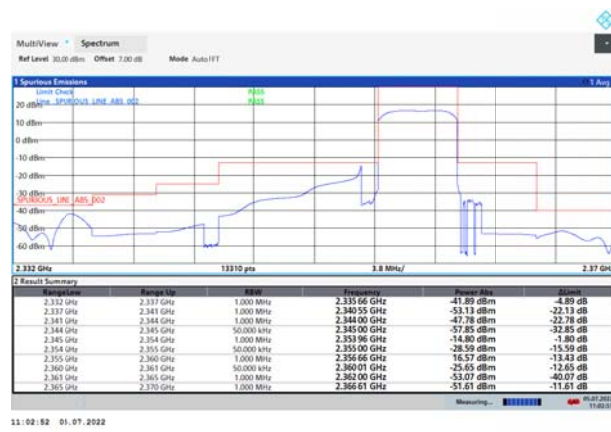
11:04:07 01.07.2022

LTE Band 40 Subset 2 QPSK 5MHz CH-Low, 100%RB



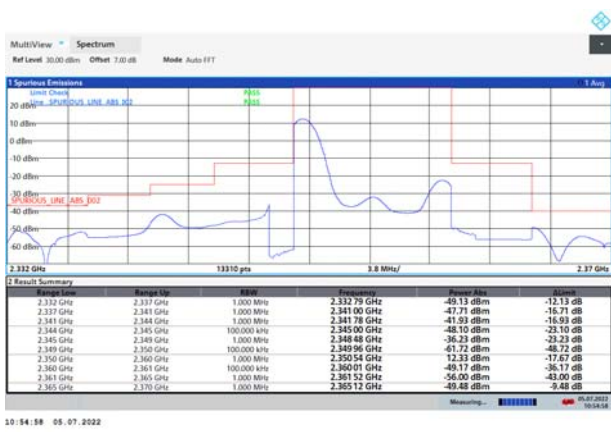
11:01:35 05.07.2022

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



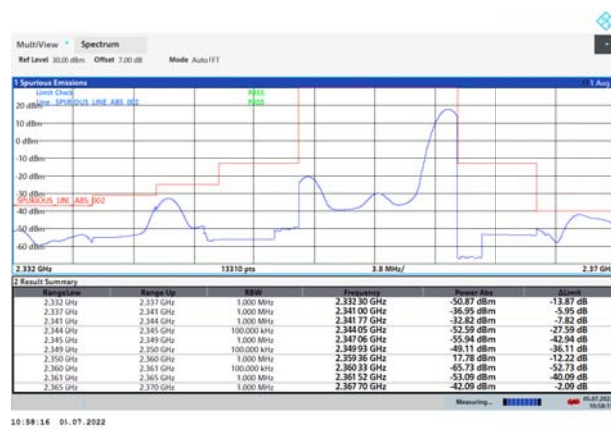
11:02:52 01.07.2022

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



10:54:58 05.07.2022

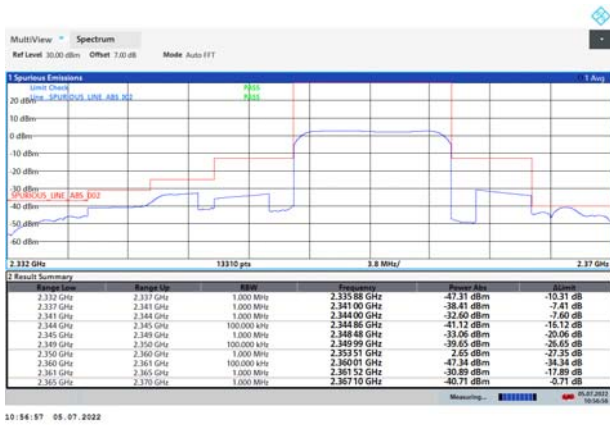
LTE Band 40 Subset 2 QPSK 10MHz CH-High, 1 RB



10:58:16 01.07.2022

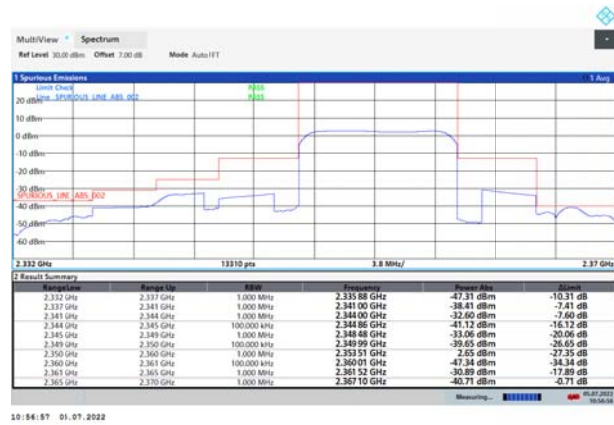


LTE Band 40 Subset 2 QPSK 10MHz CH-Low, 100%RB



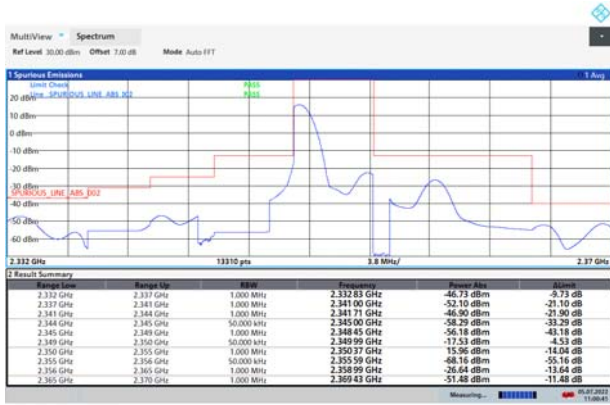
10:54:57 05.07.2022

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



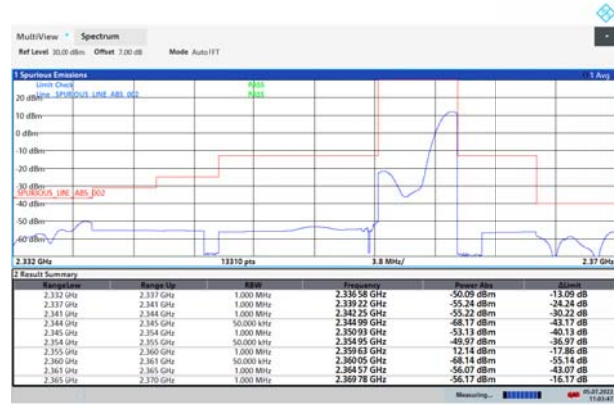
10:54:57 05.07.2022

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



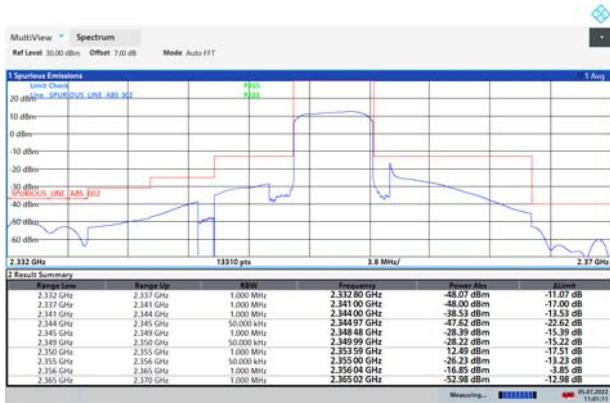
11:00:41 05.07.2022

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



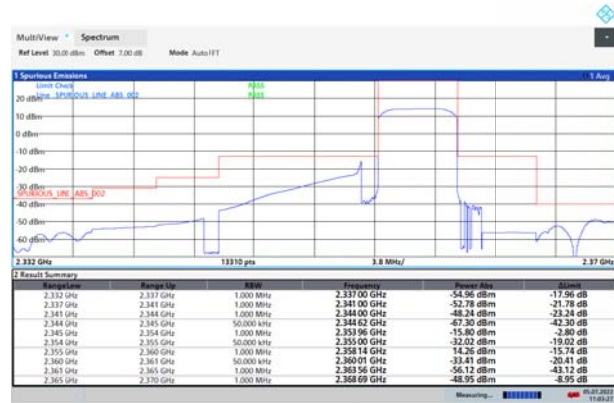
11:03:48 05.07.2022

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



11:05:11 05.07.2022

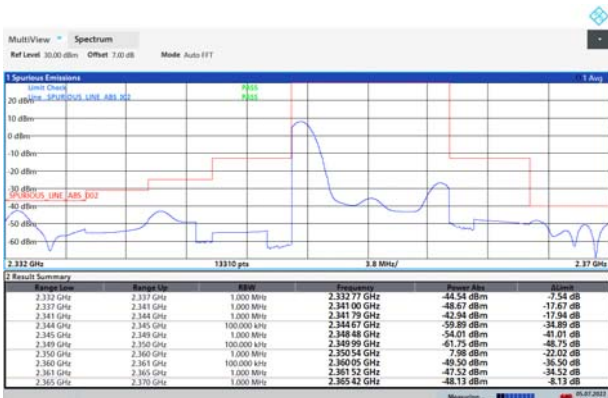
LTE Band 40 Subset 2 16QAM 5MHz CH-High, 100%RB



11:03:27 05.07.2022

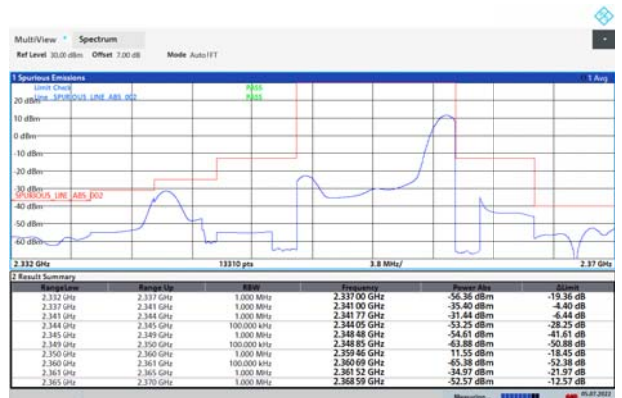


LTE Band 40 Subset 2 16QAM 10MHz CH-Low, 1 RB



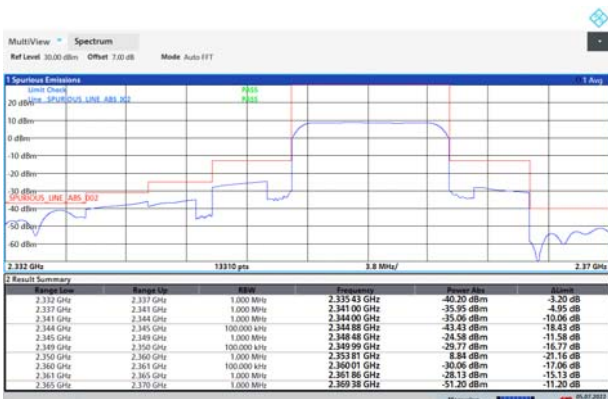
10:55:21 05.07.2022

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



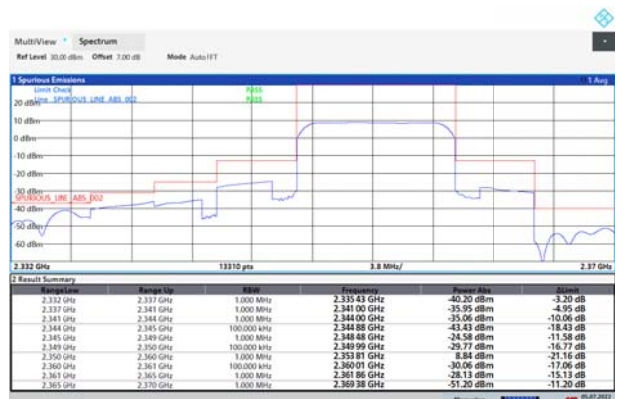
10:57:43 05.07.2022

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



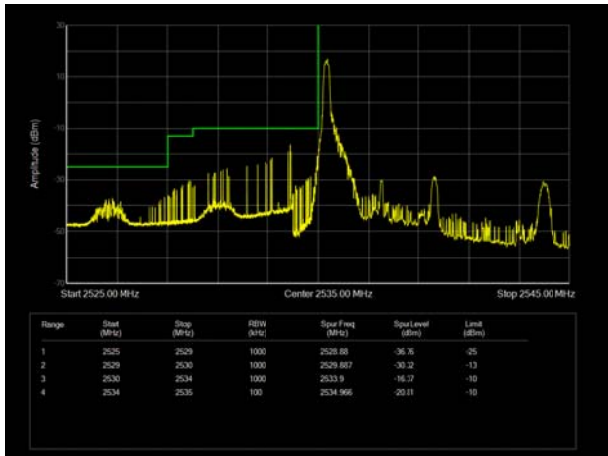
10:56:14 05.07.2022

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

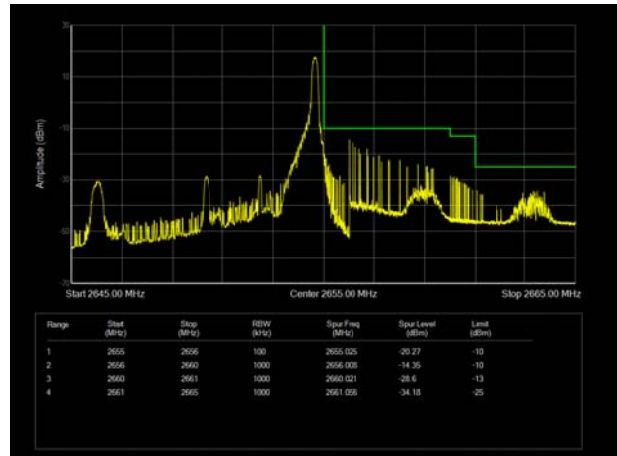


10:56:14 05.07.2022

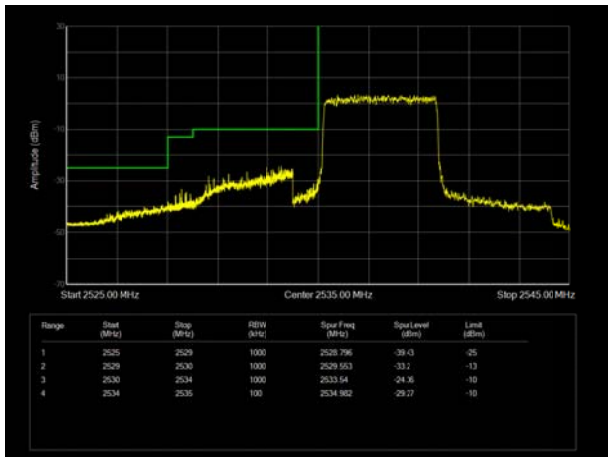
LTE Band 41 QPSK 5MHz CH-Low, 1 RB



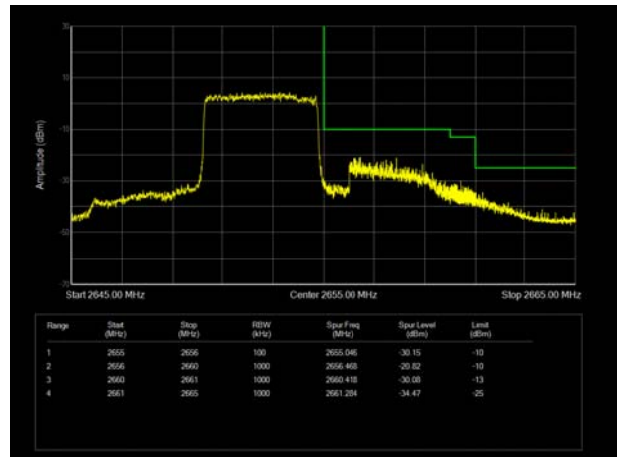
LTE Band 41 QPSK 5MHz CH-High, 1 RB



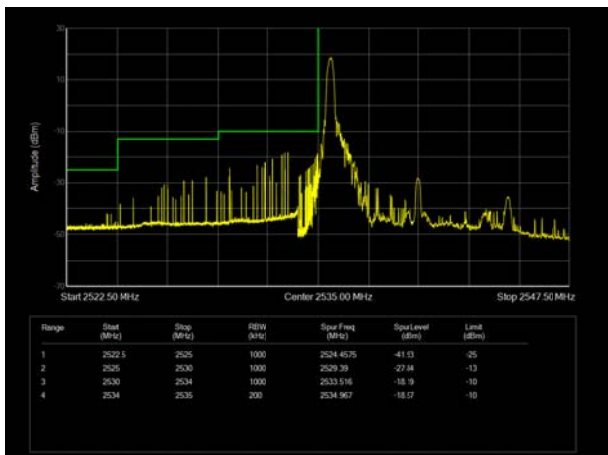
LTE Band 41 QPSK 5MHz CH-Low, 100%RB



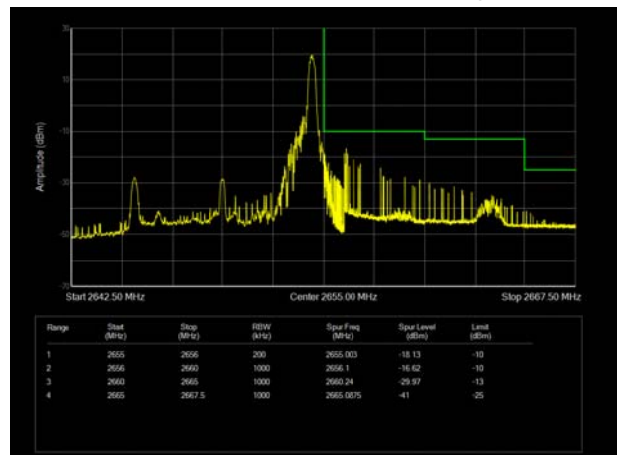
LTE Band 41 QPSK 5MHz CH-High, 100%RB



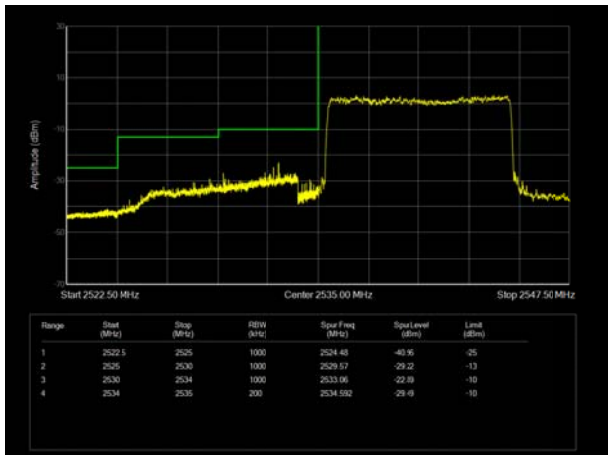
LTE Band 41 QPSK 10MHz CH-Low, 1 RB



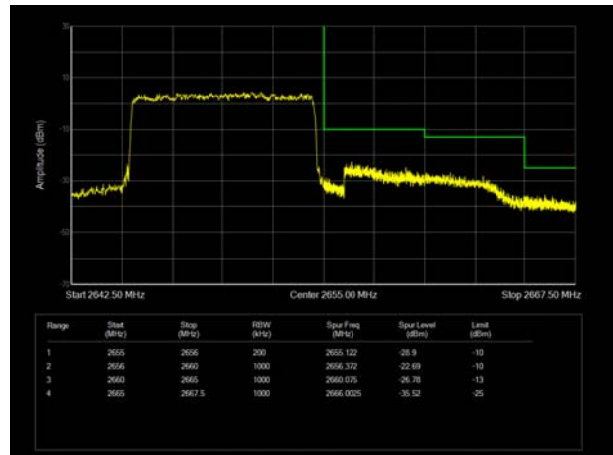
LTE Band 41 QPSK 10MHz CH-High, 1 RB



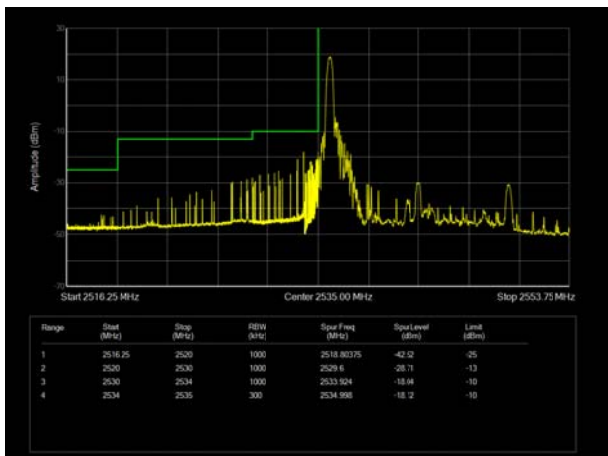
LTE Band 41 QPSK 10MHz CH-Low, 100%RB



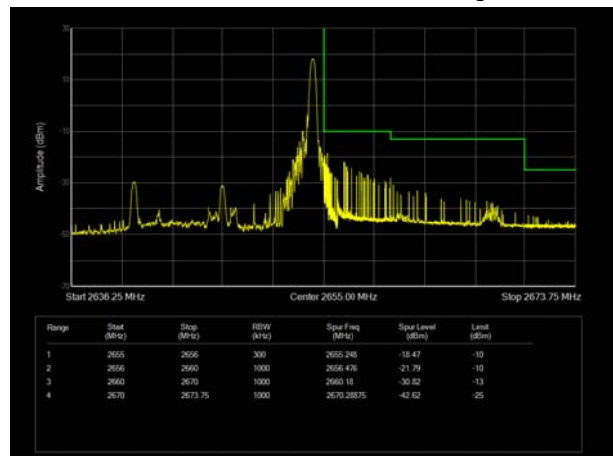
LTE Band 41 QPSK 10MHz CH-High, 100%RB



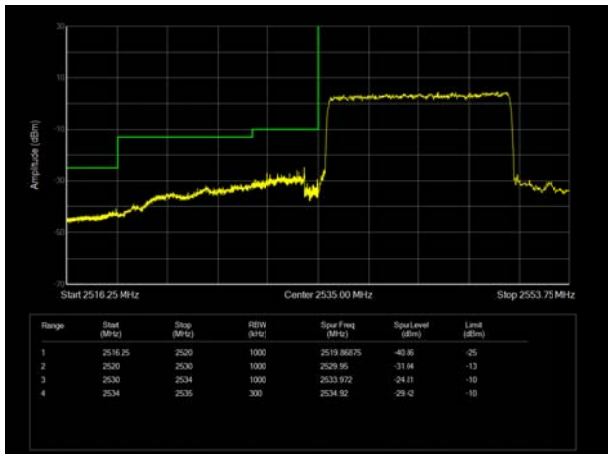
LTE Band 41 QPSK 15MHz CH-Low, 1 RB



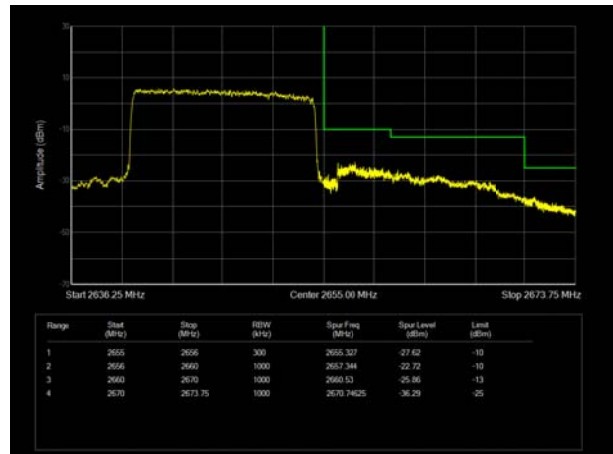
LTE Band 41 QPSK 15MHz CH-High, 1 RB



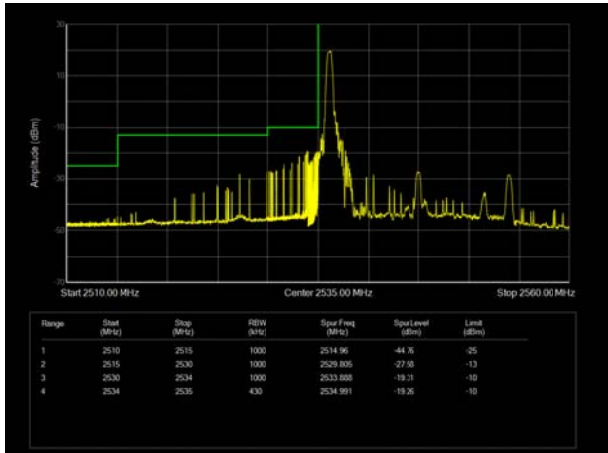
LTE Band 41 QPSK 15MHz CH-Low, 100%RB



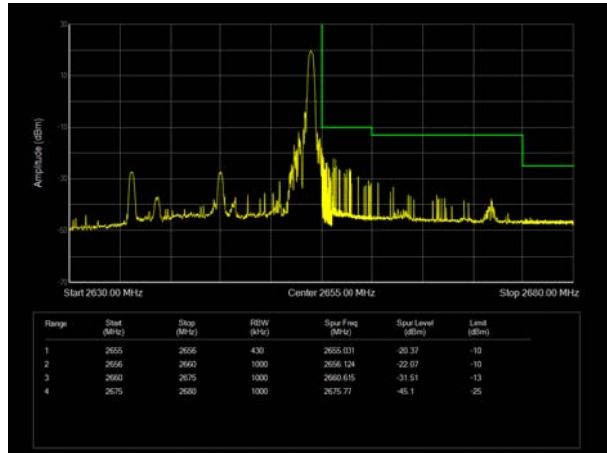
LTE Band 41 QPSK 15MHz CH-High, 100%RB



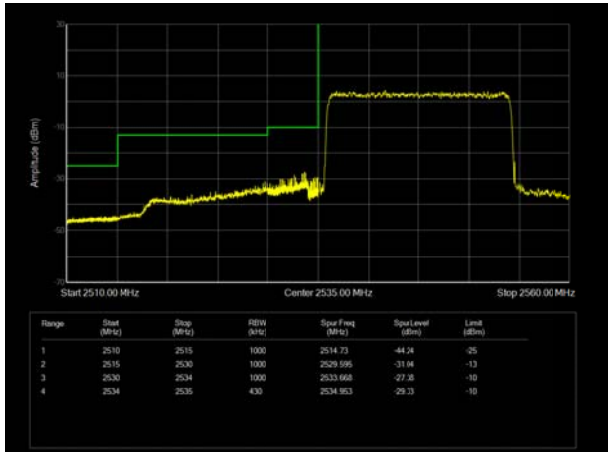
LTE Band 41 QPSK 20MHz CH-Low, 1 RB



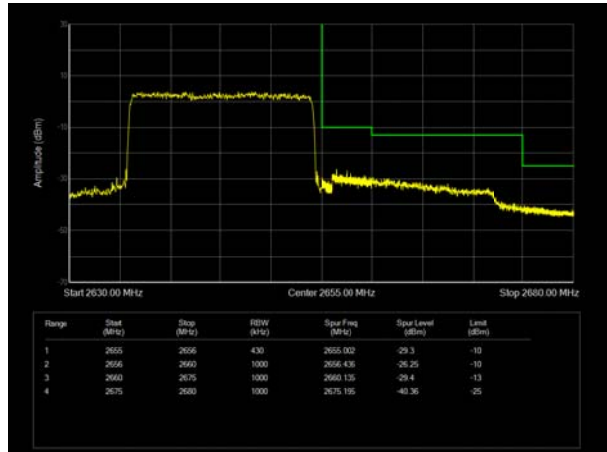
LTE Band 41 QPSK 20MHz CH-High, 1 RB



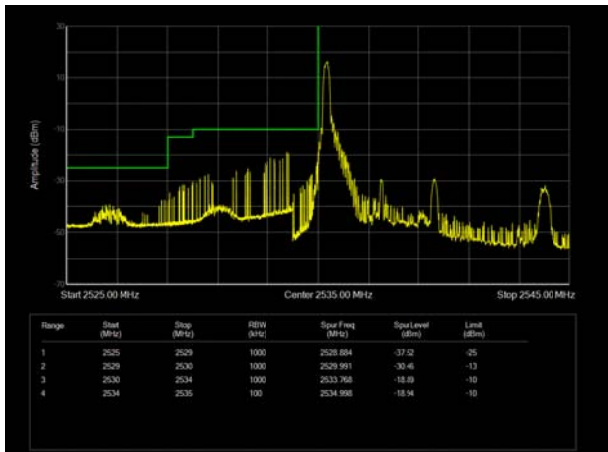
LTE Band 41 QPSK 20MHz CH-Low, 100%RB



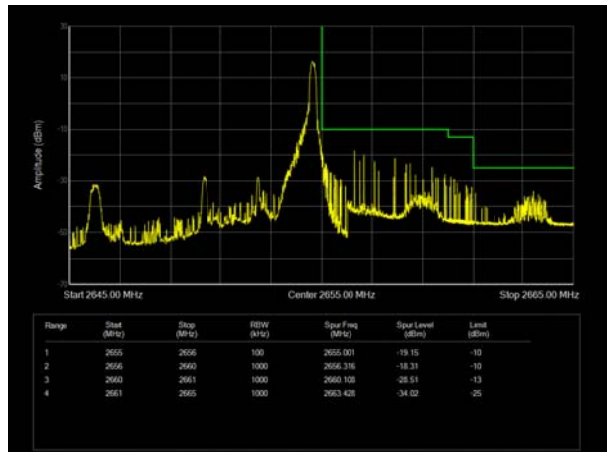
LTE Band 41 QPSK 20MHz CH-High, 100%RB



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

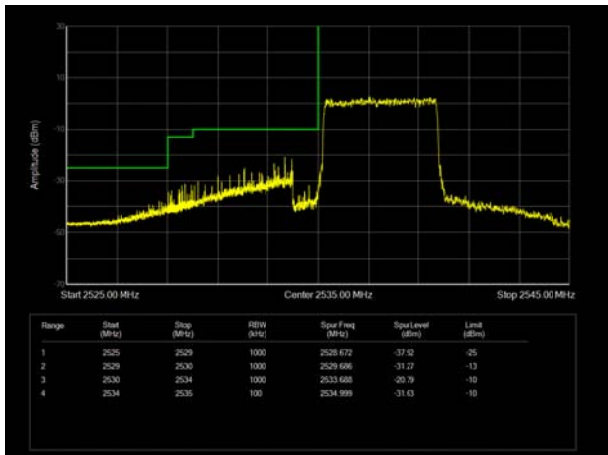


LTE Band 41 16QAM 5MHz CH-High, 1 RB

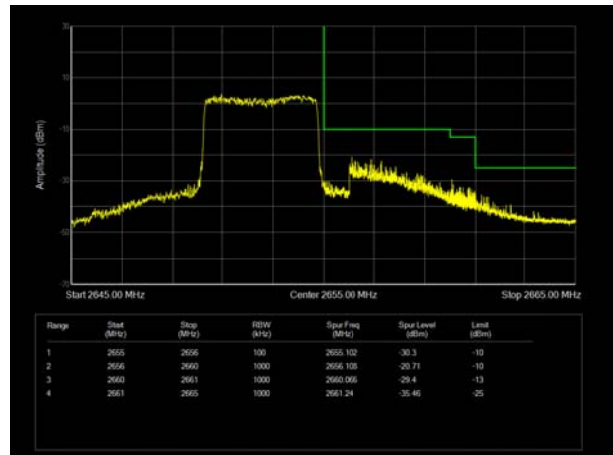




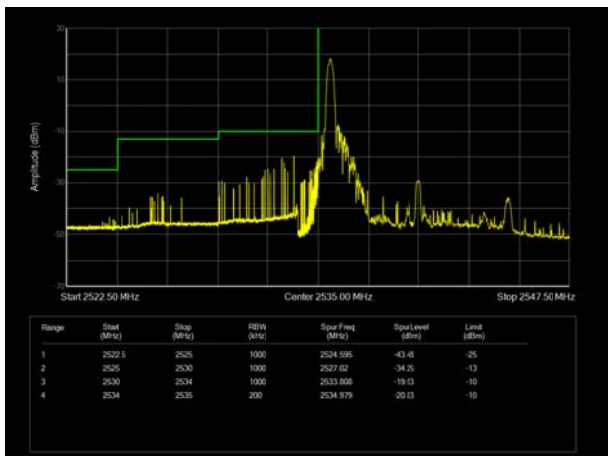
LTE Band 41 16QAM 5MHz CH-Low, 100%RB



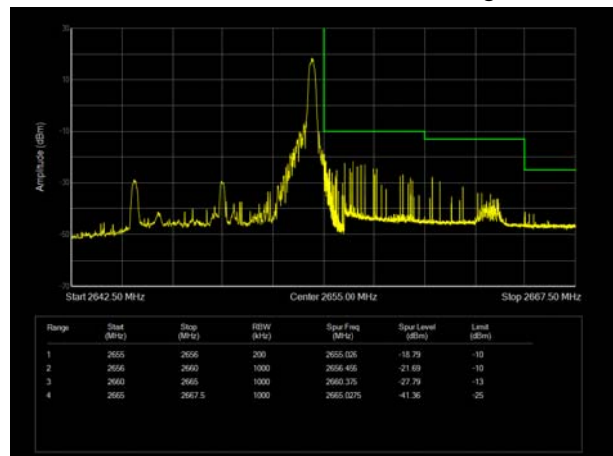
LTE Band 41 16QAM 5MHz CH-High, 100%RB



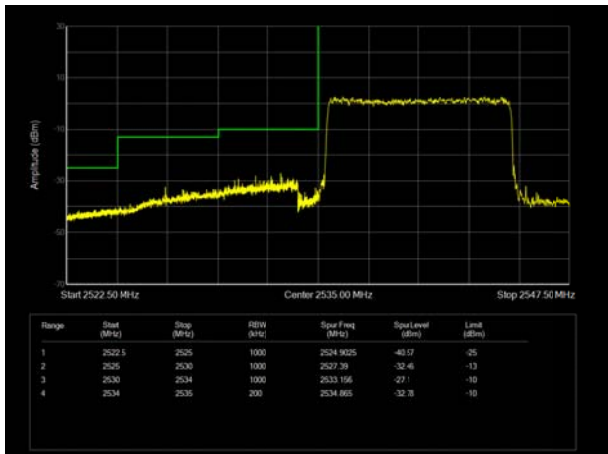
LTE Band 41 16QAM 10MHz CH-Low, 1 RB



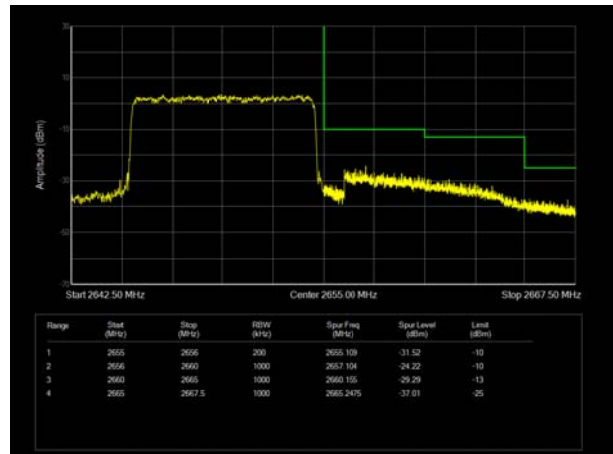
LTE Band 41 16QAM 10MHz CH-High, 1 RB



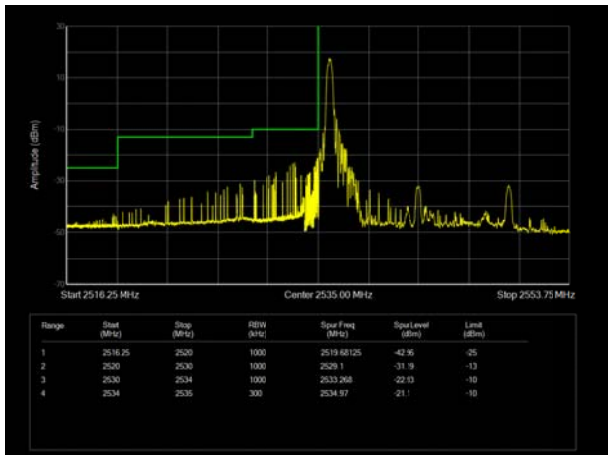
LTE Band 41 16QAM 10MHz CH-Low, 100%RB



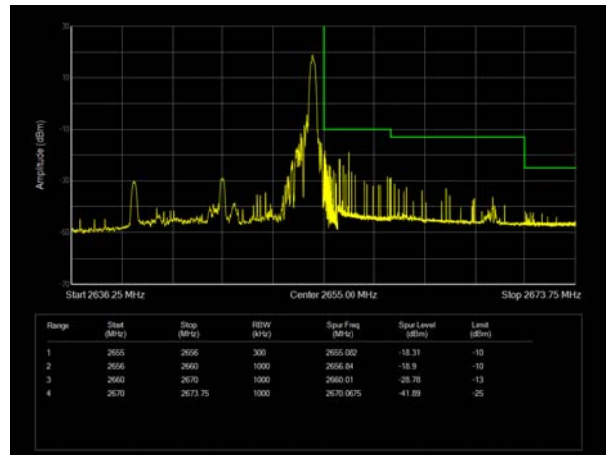
LTE Band 41 16QAM 10MHz CH-High, 100%RB



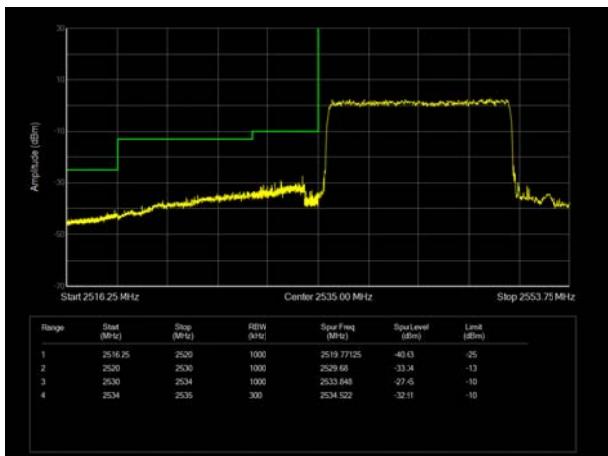
LTE Band 41 16QAM 15MHz CH-Low, 1 RB



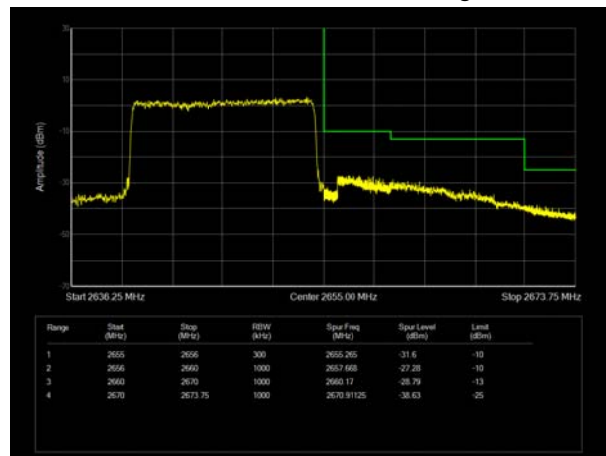
LTE Band 41 16QAM 15MHz CH-High, 1 RB



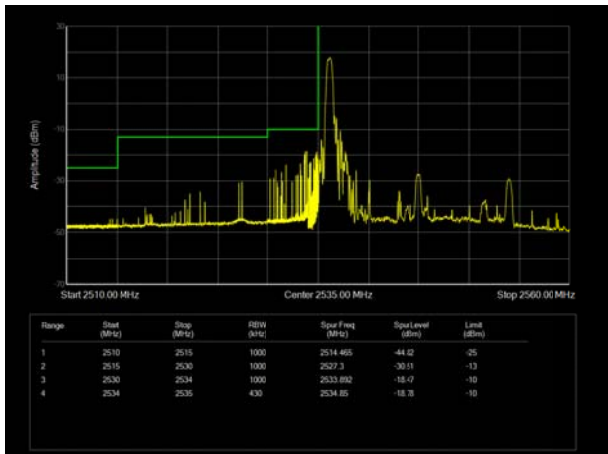
LTE Band 41 16QAM 15MHz CH-Low, 100%RB



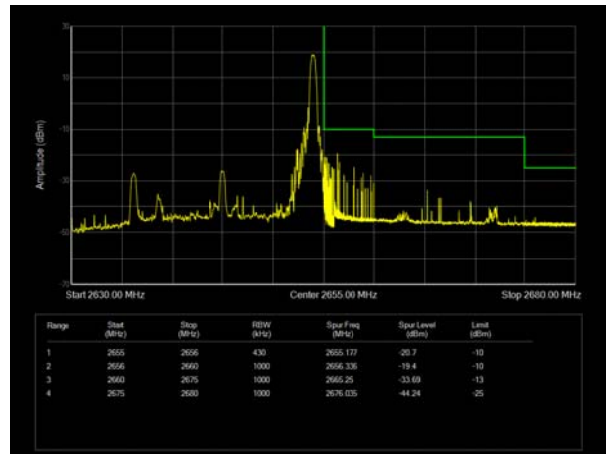
LTE Band 41 16QAM 15MHz CH-High, 100%RB



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

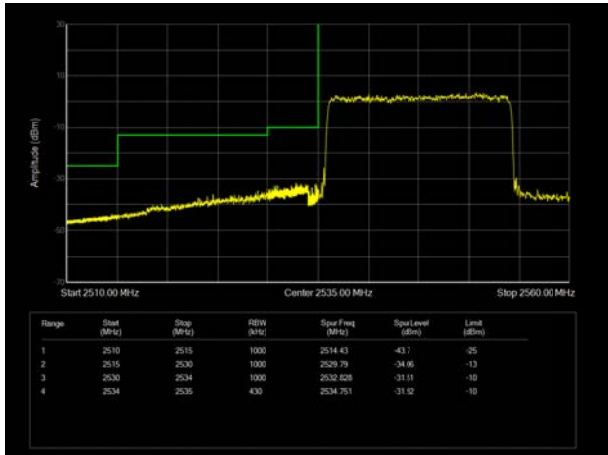


LTE Band 41 16QAM 20MHz CH-High, RB 1

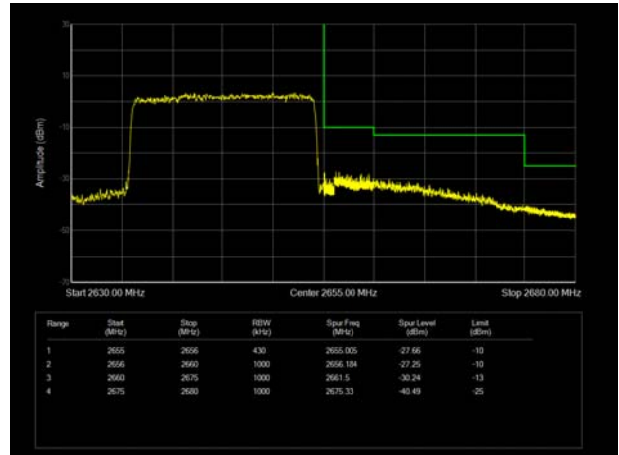




LTE Band 41 16QAM 20MHz CH-Low, 100%RB



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



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	25.91	23.04	2.87	≤13	PASS
	1413	1732.6	26.32	23.63	2.69	≤13	PASS
	1513	1752.6	25.99	23.13	2.86	≤13	PASS

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.32	22.45	4.87	≤13	PASS
		20175	1732.5	27.11	22.30	4.81	≤13	PASS
		20393	1754.3	27.00	22.15	4.85	≤13	PASS
	3	19965	1711.5	27.34	22.46	4.88	≤13	PASS
		20175	1732.5	27.07	22.24	4.83	≤13	PASS
		20385	1753.5	27.05	22.11	4.94	≤13	PASS
	5	19975	1712.5	27.42	22.45	4.97	≤13	PASS
		20175	1732.5	27.15	22.24	4.91	≤13	PASS
		20375	1752.5	27.12	22.13	4.99	≤13	PASS
	10	20000	1715	27.46	22.43	5.03	≤13	PASS
		20175	1732.5	27.09	22.21	4.88	≤13	PASS
		20350	1750	27.13	22.10	5.03	≤13	PASS
	15	20025	1717.5	27.97	22.50	5.47	≤13	PASS
		20175	1732.5	27.60	22.30	5.30	≤13	PASS
		20325	1747.5	27.55	22.23	5.32	≤13	PASS
	20	20050	1720	27.84	22.46	5.38	≤13	PASS
		20175	1732.5	27.42	22.22	5.20	≤13	PASS
		20300	1745	27.35	22.12	5.23	≤13	PASS
16QAM	1.4	19957	1710.7	27.10	21.42	5.68	≤13	PASS
		20175	1732.5	26.81	21.24	5.57	≤13	PASS
		20393	1754.3	26.86	21.17	5.69	≤13	PASS
	3	19965	1711.5	27.18	21.41	5.77	≤13	PASS
		20175	1732.5	26.88	21.24	5.64	≤13	PASS
		20385	1753.5	26.91	21.10	5.81	≤13	PASS
	5	19975	1712.5	27.23	21.44	5.79	≤13	PASS
		20175	1732.5	26.83	21.19	5.64	≤13	PASS
		20375	1752.5	26.83	21.11	5.72	≤13	PASS
	10	20000	1715	27.23	21.40	5.83	≤13	PASS



		20175	1732.5	26.84	21.19	5.65	≤13	PASS
		20350	1750	26.90	21.09	5.81	≤13	PASS
	15	20025	1717.5	27.42	21.46	5.96	≤13	PASS
		20175	1732.5	27.08	21.23	5.85	≤13	PASS
		20325	1747.5	27.11	21.17	5.94	≤13	PASS
	20	20050	1720	27.51	21.44	6.07	≤13	PASS
		20175	1732.5	27.13	21.19	5.94	≤13	PASS
		20300	1745	27.08	21.12	5.96	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	26.49	21.43	5.06	≤13	PASS
		21100	2535	26.68	21.49	5.19	≤13	PASS
		21425	2567.5	27.16	22.09	5.07	≤13	PASS
	10	20800	2505	26.58	21.51	5.07	≤13	PASS
		21100	2535	26.71	21.56	5.15	≤13	PASS
		21400	2565	27.15	22.08	5.07	≤13	PASS
	15	20825	2507.5	27.00	21.52	5.48	≤13	PASS
		21100	2535	27.18	21.60	5.58	≤13	PASS
		21375	2562.5	27.52	22.07	5.45	≤13	PASS
20	20850	2510	26.75	21.43	5.32	≤13	PASS	
	21100	2535	27.00	21.59	5.41	≤13	PASS	
	21350	2560	27.27	21.97	5.30	≤13	PASS	
16QAM	5	20775	2502.5	26.18	20.43	5.75	≤13	PASS
		21100	2535	26.35	20.48	5.87	≤13	PASS
		21425	2567.5	26.85	21.09	5.76	≤13	PASS
	10	20800	2505	26.35	20.46	5.89	≤13	PASS
		21100	2535	26.44	20.51	5.93	≤13	PASS
		21400	2565	26.94	21.06	5.88	≤13	PASS
	15	20825	2507.5	26.50	20.47	6.03	≤13	PASS
		21100	2535	26.57	20.54	6.03	≤13	PASS
		21375	2562.5	27.06	21.06	6.00	≤13	PASS
20	20850	2510	26.49	20.43	6.06	≤13	PASS	
	21100	2535	26.66	20.54	6.12	≤13	PASS	
	21350	2560	26.96	20.92	6.04	≤13	PASS	



LTE Band 38								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	37775	2572.5	27.31	17.35	9.96	≤13	PASS
		38000	2595	27.17	19.26	7.91	≤13	PASS
		38225	2617.5	27.54	19.40	8.14	≤13	PASS
	10	37800	2575	27.39	18.32	9.07	≤13	PASS
		38000	2595	27.22	18.94	8.28	≤13	PASS
		38200	2615	27.46	17.81	9.65	≤13	PASS
	15	37825	2577.5	27.80	18.11	9.69	≤13	PASS
		38000	2595	27.58	18.35	9.23	≤13	PASS
		38175	2612.5	27.88	19.80	8.08	≤13	PASS
	20	37850	2580	27.64	18.78	8.86	≤13	PASS
		38000	2595	27.54	18.87	8.67	≤13	PASS
		38150	2610	27.76	20.05	7.71	≤13	PASS
16QAM	5	37775	2572.5	27.11	18.07	9.04	≤13	PASS
		38000	2595	26.99	18.60	8.39	≤13	PASS
		38225	2617.5	27.35	18.13	9.22	≤13	PASS
	10	37800	2575	27.20	17.68	9.52	≤13	PASS
		38000	2595	26.92	16.51	10.41	≤13	PASS
		38200	2615	27.42	19.18	8.24	≤13	PASS
	15	37825	2577.5	27.41	17.93	9.48	≤13	PASS
		38000	2595	27.28	17.78	9.50	≤13	PASS
		38175	2612.5	27.51	17.49	10.02	≤13	PASS
	20	37850	2580	27.07	15.44	11.63	≤13	PASS
		38000	2595	27.21	17.82	9.39	≤13	PASS
		38150	2610	27.50	18.58	8.92	≤13	PASS



LTE Band 40 Subset 1								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	38725	2307.5	26.66	19.71	7.85	≤13	PASS
		38750	2310	26.40	19.67	7.86	≤13	PASS
		38775	2312.5	26.70	18.73	8.74	≤13	PASS
	10	38750	2310	26.51	17.99	9.42	≤13	PASS
16QAM	5	38725	2307.5	26.35	19.02	8.19	≤13	PASS
		38750	2310	26.29	17.87	9.32	≤13	PASS
		38775	2312.5	26.37	18.58	8.69	≤13	PASS
	10	38750	2310	26.26	17.89	9.32	≤13	PASS

LTE Band 40 Subset 2								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	39175	2352.5	25.80	17.99	9.34	≤13	PASS
		39200	2355	26.08	19.36	8.06	≤13	PASS
		39225	2357.5	26.03	17.69	9.64	≤13	PASS
	10	39200	2355	25.99	19.00	8.49	≤13	PASS
16QAM	5	39175	2352.5	25.81	15.76	11.16	≤13	PASS
		39200	2355	25.83	17.71	9.38	≤13	PASS
		39225	2357.5	25.84	17.57	9.50	≤13	PASS
	10	39200	2355	25.90	17.49	9.68	≤13	PASS



LTE Band 41								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	40065	2537.5	26.75	17.47	9.28	≤13	PASS
		40640	2595	27.07	18.91	8.16	≤13	PASS
		41215	2652.5	27.28	18.85	8.43	≤13	PASS
	10	40090	2540	26.83	17.33	9.50	≤13	PASS
		40640	2595	27.13	19.02	8.11	≤13	PASS
		41190	2650	27.48	19.58	7.90	≤13	PASS
	15	40115	2542.5	27.46	19.49	7.97	≤13	PASS
		40640	2595	27.54	18.43	9.11	≤13	PASS
		41165	2647.5	27.92	19.50	8.42	≤13	PASS
	20	40140	2545	27.25	18.74	8.51	≤13	PASS
		40640	2595	27.52	19.73	7.79	≤13	PASS
		41140	2645	27.69	18.35	9.34	≤13	PASS
16QAM	5	40065	2537.5	26.53	17.31	9.22	≤13	PASS
		40640	2595	26.89	18.42	8.47	≤13	PASS
		41215	2652.5	27.17	18.46	8.71	≤13	PASS
	10	40090	2540	26.80	15.90	10.90	≤13	PASS
		40640	2595	26.96	18.73	8.23	≤13	PASS
		41190	2650	27.35	18.86	8.49	≤13	PASS
	15	40115	2542.5	26.92	17.37	9.55	≤13	PASS
		40640	2595	27.14	17.04	10.10	≤13	PASS
		41165	2647.5	27.59	18.09	9.50	≤13	PASS
	20	40140	2545	26.87	17.58	9.29	≤13	PASS
		40640	2595	27.10	17.63	9.47	≤13	PASS
		41140	2645	27.51	18.06	9.45	≤13	PASS
64QAM	5	39675	2498.5	26.75	17.47	9.28	≤13	PASS
		40620	2593	27.07	18.91	8.16	≤13	PASS
		41565	2687.5	27.28	18.85	8.43	≤13	PASS
	10	39700	2501	26.83	17.33	9.50	≤13	PASS
		40620	2593	27.13	19.02	8.11	≤13	PASS
		41540	2685	27.48	19.58	7.90	≤13	PASS
	15	39725	2503.5	27.46	19.49	7.97	≤13	PASS



		40620	2593	27.54	18.43	9.11	≤13	PASS
		41515	2682.5	27.92	19.50	8.42	≤13	PASS
	20	39750	2506	27.25	18.74	8.51	≤13	PASS
		40620	2593	27.52	19.73	7.79	≤13	PASS
		41490	2680	27.69	18.35	9.34	≤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	QPSK	BPSK	QPSK	BPSK	
Normal(25°C)	Normal	5.84	11.45	0.00337	0.00661	PASS
Extreme(50°C)		4.36	4.46	0.00251	0.00257	PASS
Extreme(40°C)		13.94	15.00	0.00805	0.00866	PASS
Extreme(30°C)		7.46	3.41	0.00430	0.00197	PASS
Extreme(20°C)		10.26	5.08	0.00592	0.00293	PASS
Extreme(10°C)		9.85	9.92	0.00569	0.00572	PASS
Extreme(0°C)		16.29	14.46	0.00940	0.00835	PASS
Extreme(-10°C)		4.69	11.83	0.00271	0.00683	PASS
Extreme(-20°C)		15.04	6.52	0.00868	0.00376	PASS
Extreme(-30°C)		5.55	16.31	0.00320	0.00942	PASS
25°C	LV	17.99	7.16	0.01038	0.00413	PASS
	HV	11.75	1.34	0.00678	0.00077	PASS

LTE Band 4						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	1.4MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	17.80	12.20	0.01027	0.00704	PASS
Extreme(50°C)		3.92	2.67	0.00226	0.00154	PASS
Extreme(40°C)		17.52	6.37	0.01011	0.00368	PASS
Extreme(30°C)		2.56	3.24	0.00147	0.00187	PASS
Extreme(20°C)		3.60	3.45	0.00208	0.00199	PASS
Extreme(10°C)		6.12	4.34	0.00353	0.00251	PASS
Extreme(0°C)		17.69	7.19	0.01021	0.00415	PASS
Extreme(-10°C)		13.29	11.16	0.00767	0.00644	PASS
Extreme(-20°C)		7.28	16.78	0.00420	0.00968	PASS
Extreme(-30°C)		13.75	15.42	0.00794	0.00890	PASS
25°C	LV	5.02	17.01	0.00289	0.00982	PASS
	HV	10.02	17.79	0.00578	0.01027	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	15.47	3.39	0.00893	0.00195	PASS
Extreme(50°C)		2.95	6.45	0.00170	0.00373	PASS
Extreme(40°C)		8.48	13.94	0.00490	0.00804	PASS
Extreme(30°C)		6.27	3.74	0.00362	0.00216	PASS
Extreme(20°C)		2.22	12.03	0.00128	0.00694	PASS
Extreme(10°C)		3.43	5.54	0.00198	0.00320	PASS
Extreme(0°C)		6.23	4.26	0.00359	0.00246	PASS
Extreme(-10°C)		6.17	15.00	0.00356	0.00866	PASS
Extreme(-20°C)		13.46	8.57	0.00777	0.00495	PASS
Extreme(-30°C)		4.25	13.79	0.00245	0.00796	PASS
25°C	LV	15.32	6.68	0.00884	0.00386	PASS
	HV	16.46	1.79	0.00950	0.00103	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	16.84	15.63	0.00972	0.00902	PASS
Extreme(50°C)		8.85	17.33	0.00511	0.01000	PASS
Extreme(40°C)		10.99	15.84	0.00635	0.00914	PASS
Extreme(30°C)		8.40	13.30	0.00485	0.00768	PASS
Extreme(20°C)		8.98	11.47	0.00518	0.00662	PASS
Extreme(10°C)		16.52	1.30	0.00953	0.00075	PASS
Extreme(0°C)		5.49	7.31	0.00317	0.00422	PASS
Extreme(-10°C)		17.89	7.32	0.01033	0.00422	PASS
Extreme(-20°C)		10.43	12.60	0.00602	0.00727	PASS
Extreme(-30°C)		12.64	4.34	0.00729	0.00251	PASS
25°C	LV	10.22	15.70	0.00590	0.00906	PASS
	HV	13.95	8.80	0.00805	0.00508	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	16.93	9.34	0.00977	0.00539	PASS
Extreme(50°C)		2.06	8.15	0.00119	0.00470	PASS
Extreme(40°C)		9.64	16.39	0.00556	0.00946	PASS
Extreme(30°C)		7.45	13.99	0.00430	0.00808	PASS



Extreme(20°C)		9.43	4.98	0.00544	0.00287	PASS
Extreme(10°C)		1.10	12.17	0.00063	0.00703	PASS
Extreme(0°C)		6.41	1.70	0.00370	0.00098	PASS
Extreme(-10°C)		6.71	2.94	0.00387	0.00170	PASS
Extreme(-20°C)		8.15	15.86	0.00470	0.00916	PASS
Extreme(-30°C)		14.14	13.97	0.00816	0.00806	PASS
25°C	LV	1.90	8.35	0.00109	0.00482	PASS
	HV	12.98	17.53	0.00749	0.01012	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	16.89	7.42	0.00975	0.00428	PASS
Extreme(50°C)		15.32	8.57	0.00884	0.00495	PASS
Extreme(40°C)		6.26	10.10	0.00361	0.00583	PASS
Extreme(30°C)		6.33	15.22	0.00365	0.00878	PASS
Extreme(20°C)		14.35	6.59	0.00828	0.00380	PASS
Extreme(10°C)		15.85	10.48	0.00915	0.00605	PASS
Extreme(0°C)		13.66	2.88	0.00788	0.00166	PASS
Extreme(-10°C)		4.78	3.11	0.00276	0.00180	PASS
Extreme(-20°C)		14.49	6.93	0.00836	0.00400	PASS
Extreme(-30°C)		15.04	17.60	0.00868	0.01016	PASS
25°C	LV	16.20	17.86	0.00935	0.01031	PASS
	HV	13.24	1.11	0.00764	0.00064	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	8.36	5.68	0.00483	0.00328	PASS
Extreme(50°C)		1.07	16.47	0.00062	0.00950	PASS
Extreme(40°C)		13.38	1.80	0.00772	0.00104	PASS
Extreme(30°C)		10.10	13.12	0.00583	0.00757	PASS
Extreme(20°C)		2.69	5.41	0.00155	0.00312	PASS
Extreme(10°C)		3.85	10.92	0.00222	0.00630	PASS
Extreme(0°C)		7.23	14.50	0.00417	0.00837	PASS
Extreme(-10°C)		6.70	3.37	0.00387	0.00195	PASS
Extreme(-20°C)		2.85	1.52	0.00165	0.00088	PASS
Extreme(-30°C)		1.96	6.49	0.00113	0.00375	PASS
25°C	LV	2.85	9.30	0.00164	0.00537	PASS
	HV	7.38	16.11	0.00426	0.00930	PASS



LTE Band 7						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	5MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal(25°C)	Normal	13.01	3.29	0.00513	0.00130	PASS
Extreme(50°C)		12.90	10.79	0.00509	0.00426	PASS
Extreme(40°C)		6.43	2.03	0.00254	0.00080	PASS
Extreme(30°C)		6.04	12.34	0.00238	0.00487	PASS
Extreme(20°C)		12.02	15.73	0.00474	0.00621	PASS
Extreme(10°C)		2.34	8.70	0.00092	0.00343	PASS
Extreme(0°C)		4.80	10.11	0.00189	0.00399	PASS
Extreme(-10°C)		6.96	5.05	0.00275	0.00199	PASS
Extreme(-20°C)		2.55	10.49	0.00101	0.00414	PASS
Extreme(-30°C)		9.95	5.30	0.00393	0.00209	PASS
25°C	LV	1.14	6.18	0.00045	0.00244	PASS
	HV	6.41	10.41	0.00253	0.00411	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	10MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal(25°C)	Normal	11.44	7.33	0.00451	0.00289	PASS
Extreme(50°C)		3.78	13.02	0.00149	0.00514	PASS
Extreme(40°C)		2.86	17.99	0.00113	0.00710	PASS
Extreme(30°C)		8.03	15.72	0.00317	0.00620	PASS
Extreme(20°C)		16.49	3.54	0.00651	0.00140	PASS
Extreme(10°C)		10.32	10.73	0.00407	0.00423	PASS
Extreme(0°C)		7.20	17.34	0.00284	0.00684	PASS
Extreme(-10°C)		1.72	2.28	0.00068	0.00090	PASS
Extreme(-20°C)		11.33	17.04	0.00447	0.00672	PASS
Extreme(-30°C)		10.92	10.87	0.00431	0.00429	PASS
25°C	LV	10.45	8.13	0.00412	0.00321	PASS
	HV	13.27	14.30	0.00523	0.00564	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	15MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal(25°C)	Normal	16.63	9.51	0.00656	0.00375	PASS
Extreme(50°C)		4.69	5.61	0.00185	0.00221	PASS
Extreme(40°C)		1.74	8.63	0.00069	0.00340	PASS
Extreme(30°C)		12.62	13.65	0.00498	0.00538	PASS



Extreme(20°C)		7.86	11.25	0.00310	0.00444	PASS
Extreme(10°C)		10.94	6.42	0.00432	0.00253	PASS
Extreme(0°C)		16.68	7.95	0.00658	0.00314	PASS
Extreme(-10°C)		4.90	5.77	0.00193	0.00227	PASS
Extreme(-20°C)		1.35	9.03	0.00053	0.00356	PASS
Extreme(-30°C)		16.59	15.14	0.00654	0.00597	PASS
25°C	LV	10.09	8.85	0.00398	0.00349	PASS
	HV	17.87	5.23	0.00705	0.00206	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	14.66	9.85	0.00578	0.00389	PASS
Extreme(50°C)		14.53	10.65	0.00573	0.00420	PASS
Extreme(40°C)		5.70	5.98	0.00225	0.00236	PASS
Extreme(30°C)		9.15	10.82	0.00361	0.00427	PASS
Extreme(20°C)		13.59	16.14	0.00536	0.00637	PASS
Extreme(10°C)		9.68	13.49	0.00382	0.00532	PASS
Extreme(0°C)		8.88	14.71	0.00350	0.00580	PASS
Extreme(-10°C)		11.60	8.86	0.00458	0.00349	PASS
Extreme(-20°C)		9.60	16.98	0.00379	0.00670	PASS
Extreme(-30°C)		5.32	5.66	0.00210	0.00223	PASS
25°C	LV	12.88	11.32	0.00508	0.00447	PASS
	HV	3.31	17.01	0.00130	0.00671	PASS

LTE Band 38						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	5.56	5.96	0.00214	0.00230	PASS
Extreme(50°C)		9.38	7.39	0.00362	0.00285	PASS
Extreme(40°C)		13.20	5.70	0.00509	0.00220	PASS
Extreme(30°C)		7.24	16.87	0.00279	0.00650	PASS
Extreme(20°C)		17.76	11.77	0.00684	0.00454	PASS
Extreme(10°C)		17.08	14.19	0.00658	0.00547	PASS
Extreme(0°C)		2.77	5.76	0.00107	0.00222	PASS
Extreme(-10°C)		7.32	17.60	0.00282	0.00678	PASS
Extreme(-20°C)		12.59	9.25	0.00485	0.00357	PASS
Extreme(-30°C)		17.51	8.79	0.00675	0.00339	PASS
25°C	LV	3.71	17.98	0.00143	0.00693	PASS
	HV	1.11	7.47	0.00043	0.00288	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	17.34	11.41	0.00668	0.00440	PASS
Extreme(50°C)		6.57	13.37	0.00253	0.00515	PASS
Extreme(40°C)		10.09	11.79	0.00389	0.00454	PASS
Extreme(30°C)		11.97	13.35	0.00461	0.00514	PASS
Extreme(20°C)		17.03	3.41	0.00656	0.00132	PASS
Extreme(10°C)		17.40	5.17	0.00671	0.00199	PASS
Extreme(0°C)		5.16	10.09	0.00199	0.00389	PASS
Extreme(-10°C)		6.68	16.86	0.00258	0.00650	PASS
Extreme(-20°C)		10.85	16.67	0.00418	0.00642	PASS
Extreme(-30°C)		1.51	15.99	0.00058	0.00616	PASS
25°C		LV	15.23	17.61	0.00587	0.00679
	HV	6.14	5.50	0.00237	0.00212	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	6.47	8.46	0.00250	0.00326	PASS
Extreme(50°C)		14.03	4.51	0.00541	0.00174	PASS
Extreme(40°C)		2.04	2.20	0.00079	0.00085	PASS
Extreme(30°C)		5.77	1.50	0.00222	0.00058	PASS
Extreme(20°C)		5.64	11.85	0.00217	0.00456	PASS
Extreme(10°C)		9.98	2.66	0.00385	0.00102	PASS
Extreme(0°C)		7.72	9.25	0.00297	0.00356	PASS
Extreme(-10°C)		1.21	2.62	0.00047	0.00101	PASS
Extreme(-20°C)		3.07	6.39	0.00118	0.00246	PASS
Extreme(-30°C)		1.63	3.10	0.00063	0.00119	PASS
25°C		LV	1.37	12.61	0.00053	0.00486
	HV	3.88	10.24	0.00149	0.00394	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	12.04	12.05	0.00464	0.00464	PASS
Extreme(50°C)		1.28	1.75	0.00049	0.00067	PASS
Extreme(40°C)		7.46	7.30	0.00287	0.00281	PASS
Extreme(30°C)		12.48	17.25	0.00481	0.00665	PASS
Extreme(20°C)		3.85	16.71	0.00148	0.00644	PASS



Extreme(10°C)		4.14	12.30	0.00160	0.00474	PASS
Extreme(0°C)		16.16	6.79	0.00623	0.00261	PASS
Extreme(-10°C)		8.06	3.71	0.00311	0.00143	PASS
Extreme(-20°C)		17.82	17.50	0.00687	0.00675	PASS
Extreme(-30°C)		2.67	6.57	0.00103	0.00253	PASS
25°C	LV	11.32	13.84	0.00436	0.00533	PASS
	HV	13.29	5.19	0.00512	0.00200	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		
Normal(25°C)	Normal	4.28	3.63	0.00185	0.00157	PASS	
Extreme(50°C)		7.82	1.38	0.00338	0.00060	PASS	
Extreme(40°C)		10.42	4.30	0.00451	0.00186	PASS	
Extreme(30°C)		15.24	15.01	0.00660	0.00650	PASS	
Extreme(20°C)		4.71	8.32	0.00204	0.00360	PASS	
Extreme(10°C)		7.33	4.73	0.00317	0.00205	PASS	
Extreme(0°C)		9.10	9.50	0.00394	0.00411	PASS	
Extreme(-10°C)		16.36	9.87	0.00708	0.00427	PASS	
Extreme(-20°C)		4.84	11.38	0.00209	0.00493	PASS	
Extreme(-30°C)		17.80	9.55	0.00770	0.00413	PASS	
25°C		LV	11.75	4.39	0.00509	0.00190	PASS
		HV	12.16	4.89	0.00527	0.00212	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict	
BANDWIDTH	10MHz						
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK		
Normal(25°C)	Normal	16.69	4.80	0.00722	0.00208	PASS	
Extreme(50°C)		16.14	13.32	0.00699	0.00577	PASS	
Extreme(40°C)		12.80	16.26	0.00554	0.00704	PASS	
Extreme(30°C)		16.95	1.55	0.00734	0.00067	PASS	
Extreme(20°C)		4.50	9.75	0.00195	0.00422	PASS	
Extreme(10°C)		3.59	12.21	0.00156	0.00529	PASS	
Extreme(0°C)		10.92	4.19	0.00473	0.00181	PASS	
Extreme(-10°C)		10.82	3.16	0.00468	0.00137	PASS	
Extreme(-20°C)		5.28	2.67	0.00229	0.00115	PASS	
Extreme(-30°C)		7.04	1.26	0.00305	0.00054	PASS	
25°C		LV	2.02	12.54	0.00088	0.00543	PASS
		HV	11.25	1.03	0.00487	0.00044	PASS



LTE Band 40 subset 2						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	5MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal(25°C)	Normal	11.72	4.63	0.00498	0.00197	PASS
Extreme(50°C)		6.77	9.89	0.00288	0.00420	PASS
Extreme(40°C)		15.51	11.65	0.00659	0.00495	PASS
Extreme(30°C)		6.07	5.64	0.00258	0.00240	PASS
Extreme(20°C)		10.34	3.29	0.00439	0.00140	PASS
Extreme(10°C)		1.11	8.93	0.00047	0.00379	PASS
Extreme(0°C)		17.54	6.38	0.00745	0.00271	PASS
Extreme(-10°C)		5.90	15.11	0.00250	0.00642	PASS
Extreme(-20°C)		1.87	4.05	0.00079	0.00172	PASS
Extreme(-30°C)		7.89	17.45	0.00335	0.00741	PASS
25°C		LV	16.65	16.23	0.00707	0.00689
	HV	17.52	12.02	0.00744	0.00510	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	10MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal(25°C)	Normal	10.72	11.08	0.00455	0.00470	PASS
Extreme(50°C)		17.59	10.26	0.00747	0.00436	PASS
Extreme(40°C)		8.09	12.82	0.00344	0.00544	PASS
Extreme(30°C)		7.49	14.79	0.00318	0.00628	PASS
Extreme(20°C)		8.77	6.76	0.00372	0.00287	PASS
Extreme(10°C)		13.61	13.57	0.00578	0.00576	PASS
Extreme(0°C)		16.88	1.43	0.00717	0.00061	PASS
Extreme(-10°C)		17.20	10.86	0.00730	0.00461	PASS
Extreme(-20°C)		7.04	13.65	0.00299	0.00580	PASS
Extreme(-30°C)		16.71	9.16	0.00710	0.00389	PASS
25°C		LV	17.23	14.52	0.00731	0.00617
	HV	1.12	15.27	0.00047	0.00648	PASS



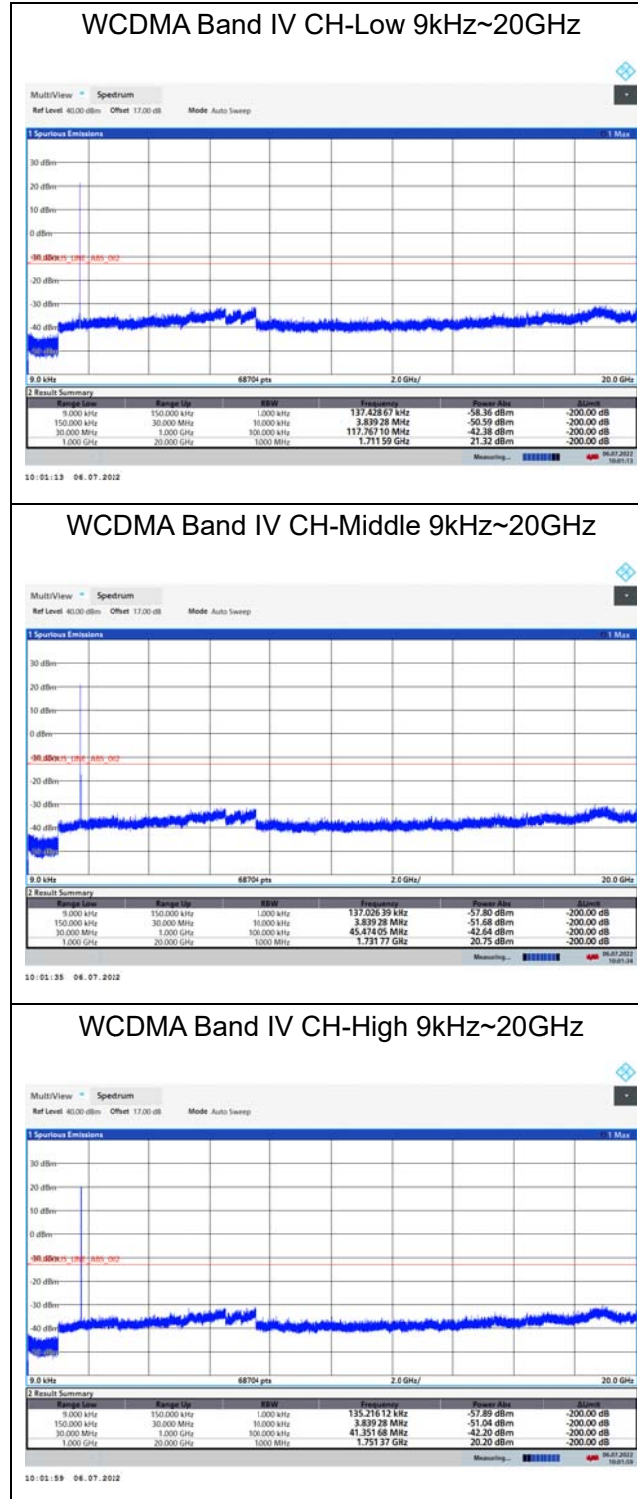
LTE Band 41						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	4.44	11.07	0.00171	0.00427	PASS
Extreme(50°C)		12.33	2.88	0.00475	0.00111	PASS
Extreme(40°C)		12.40	4.29	0.00478	0.00166	PASS
Extreme(30°C)		1.73	16.73	0.00067	0.00645	PASS
Extreme(20°C)		13.89	3.18	0.00536	0.00123	PASS
Extreme(10°C)		6.20	10.55	0.00239	0.00407	PASS
Extreme(0°C)		11.93	1.76	0.00460	0.00068	PASS
Extreme(-10°C)		17.70	1.29	0.00683	0.00050	PASS
Extreme(-20°C)		7.24	6.12	0.00279	0.00236	PASS
Extreme(-30°C)		4.95	5.89	0.00191	0.00227	PASS
25°C		LV	6.47	13.22	0.00250	0.00510
	HV	17.48	14.53	0.00674	0.00560	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	17.33	16.83	0.00669	0.00649	PASS
Extreme(50°C)		16.93	4.07	0.00653	0.00157	PASS
Extreme(40°C)		14.50	13.54	0.00559	0.00522	PASS
Extreme(30°C)		12.39	14.57	0.00478	0.00562	PASS
Extreme(20°C)		9.12	2.47	0.00352	0.00095	PASS
Extreme(10°C)		9.64	11.22	0.00372	0.00433	PASS
Extreme(0°C)		14.99	15.16	0.00578	0.00585	PASS
Extreme(-10°C)		2.83	16.03	0.00109	0.00618	PASS
Extreme(-20°C)		10.96	5.76	0.00423	0.00222	PASS
Extreme(-30°C)		13.65	11.21	0.00526	0.00432	PASS
25°C		LV	17.30	15.60	0.00667	0.00602
	HV	3.88	5.11	0.00150	0.00197	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability(ppm)	Frequency Stability(ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	8.50	4.14	0.00328	0.00160	PASS
Extreme(50°C)		6.78	10.94	0.00262	0.00422	PASS
Extreme(40°C)		14.52	12.49	0.00560	0.00482	PASS



Extreme(30°C)		5.86	14.29	0.00226	0.00551	PASS
Extreme(20°C)		8.81	17.73	0.00340	0.00684	PASS
Extreme(10°C)		9.49	7.46	0.00366	0.00288	PASS
Extreme(0°C)		1.22	2.11	0.00047	0.00081	PASS
Extreme(-10°C)		9.65	10.80	0.00372	0.00417	PASS
Extreme(-20°C)		17.41	13.42	0.00672	0.00518	PASS
Extreme(-30°C)		1.80	9.27	0.00069	0.00358	PASS
25°C	LV	15.35	1.81	0.00592	0.00070	PASS
	HV	4.15	17.75	0.00160	0.00684	PASS
Condition		Freq.Error	Freq.Error	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	Stability(ppm)	Stability(ppm)	
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal(25°C)	Normal	6.49	12.15	0.00250	0.00468	PASS
Extreme(50°C)		1.16	7.38	0.00045	0.00285	PASS
Extreme(40°C)		8.14	9.08	0.00314	0.00350	PASS
Extreme(30°C)		8.85	1.02	0.00341	0.00039	PASS
Extreme(20°C)		17.18	10.13	0.00663	0.00391	PASS
Extreme(10°C)		6.54	17.22	0.00252	0.00664	PASS
Extreme(0°C)		15.94	15.53	0.00615	0.00599	PASS
Extreme(-10°C)		1.07	5.63	0.00041	0.00217	PASS
Extreme(-20°C)		10.59	7.20	0.00408	0.00278	PASS
Extreme(-30°C)		9.33	17.21	0.00360	0.00664	PASS
25°C		LV	11.59	12.12	0.00447	0.00467
	HV	12.68	10.51	0.00489	0.00405	PASS

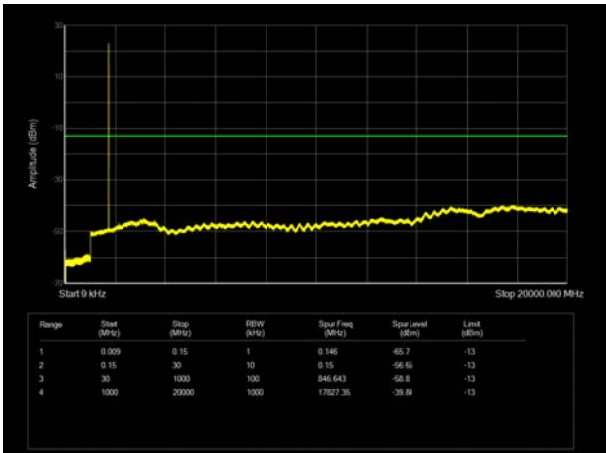
6.6 Spurious Emissions at Antenna Terminals

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.

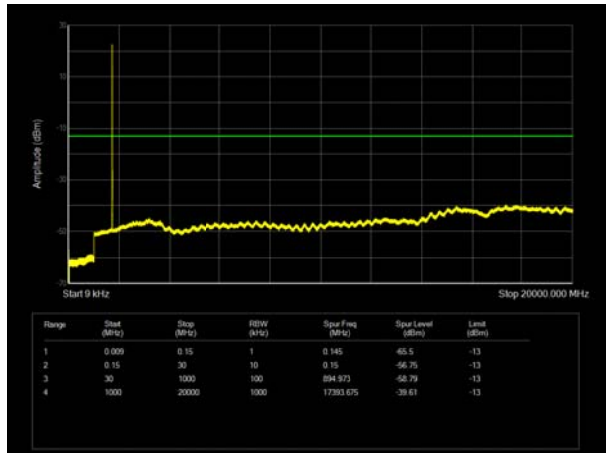




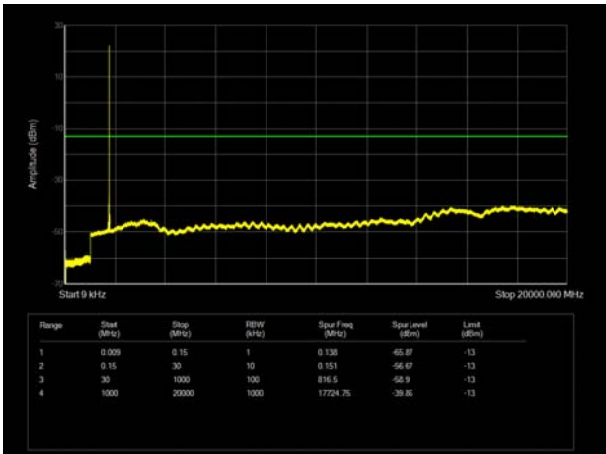
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



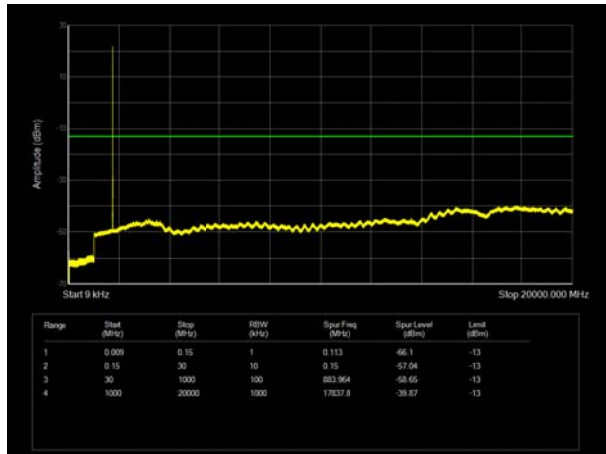
LTE Band 4 3MHz CH- Low 9kHz~20GHz



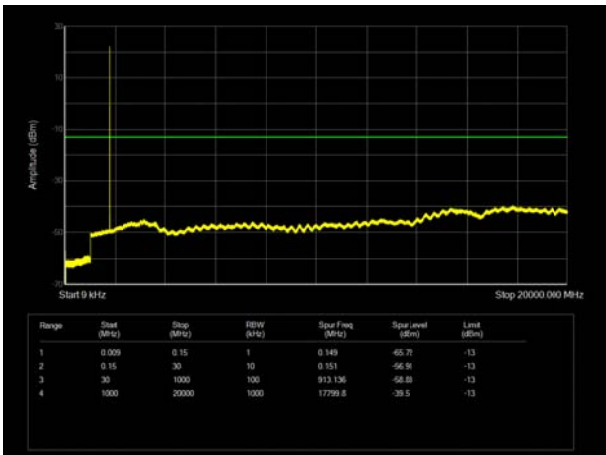
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



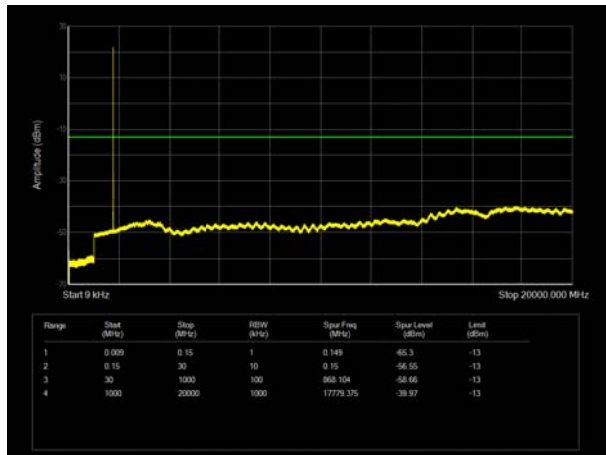
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



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

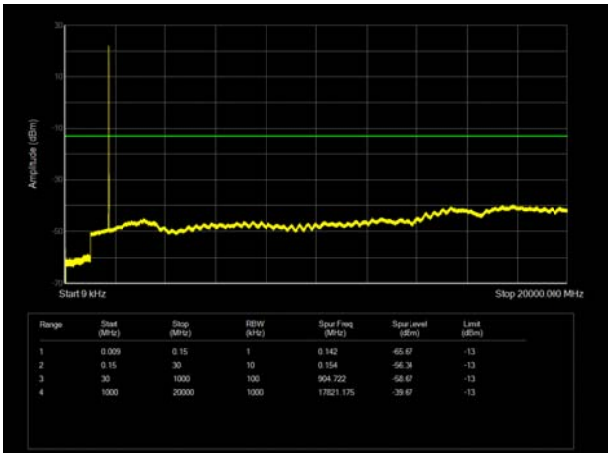


LTE Band 4 3MHz CH-High 9kHz~20GHz

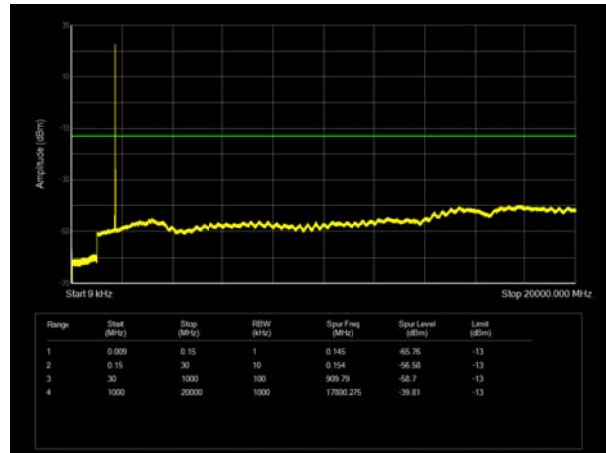




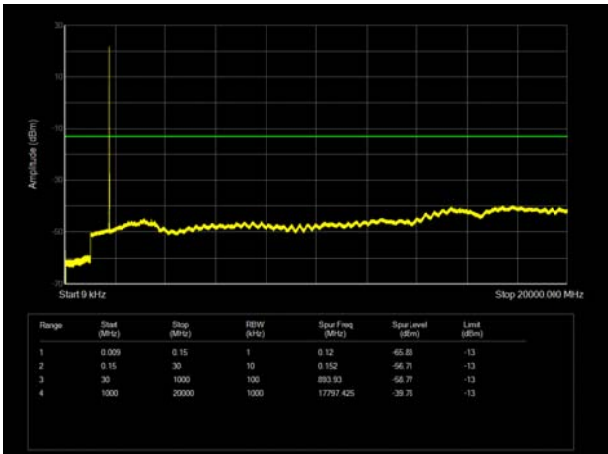
LTE Band 4 5MHz CH- Low 9kHz~20GHz



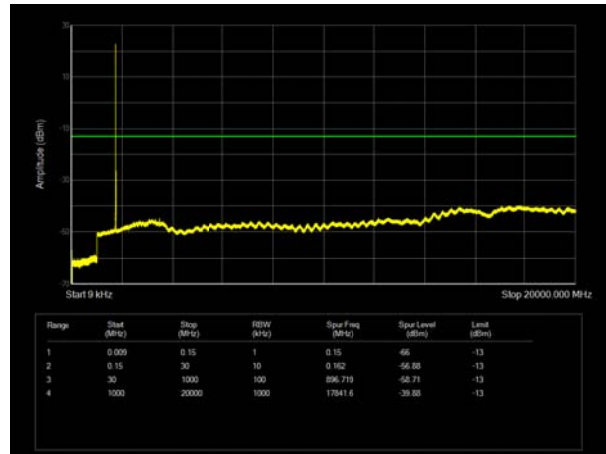
LTE Band 4 10MHz CH-Low 9kHz~20GHz



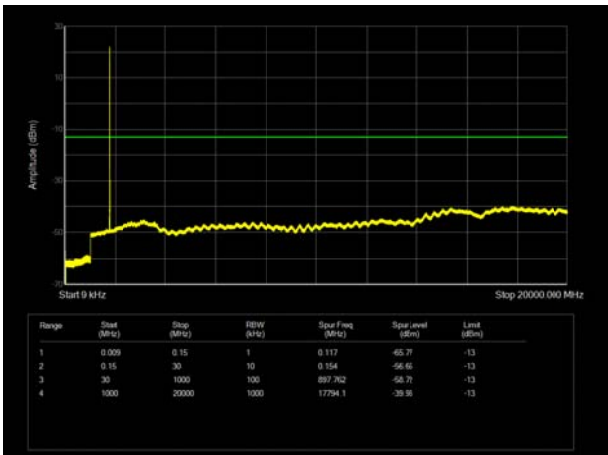
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



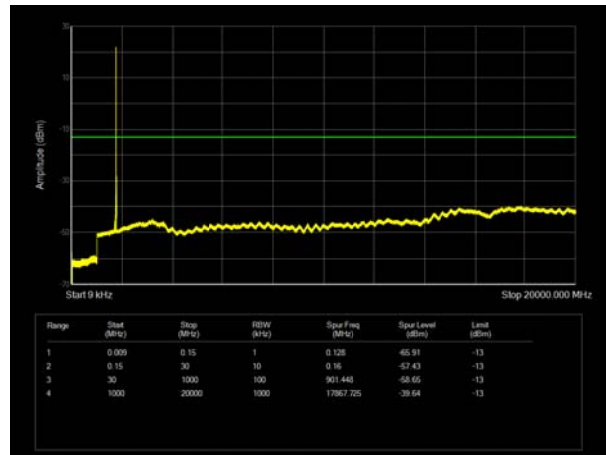
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



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

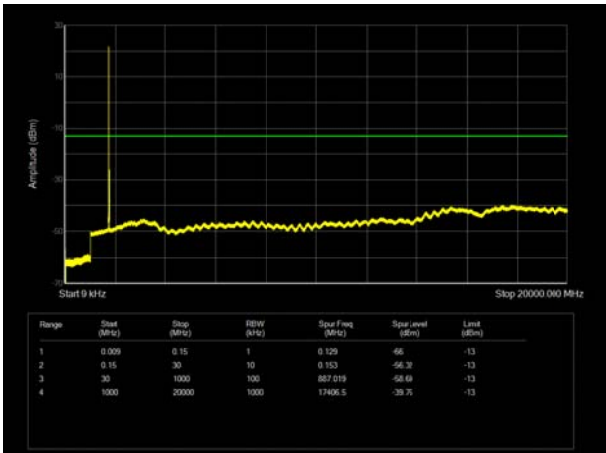


LTE Band 4 10MHz CH- High 9kHz~20GHz

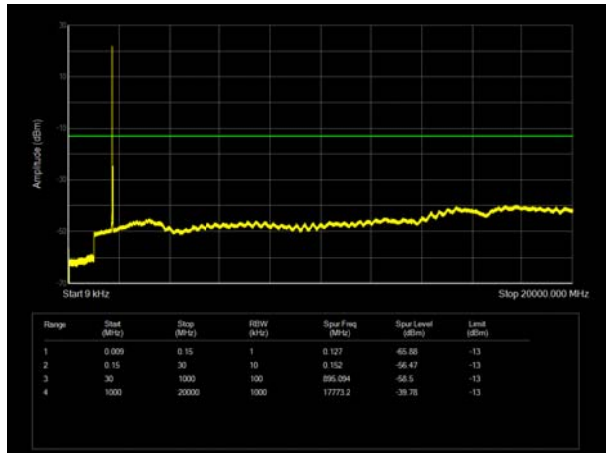




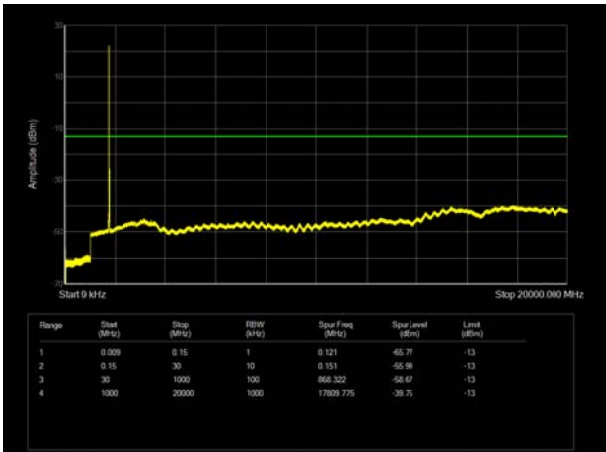
LTE Band 4 15MHz CH- Low 9kHz~20GHz



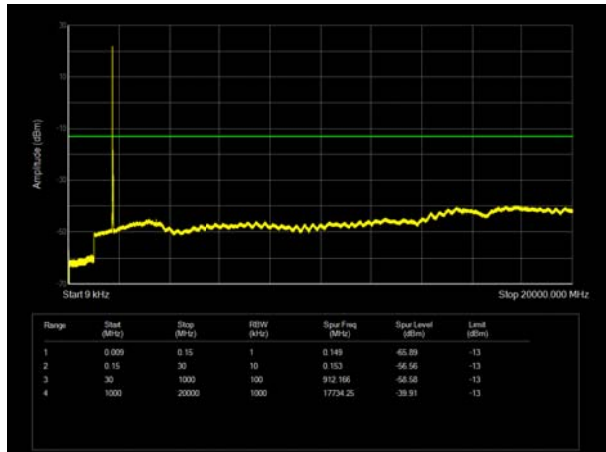
LTE Band 4 20MHz CH-Low 9kHz~20GHz



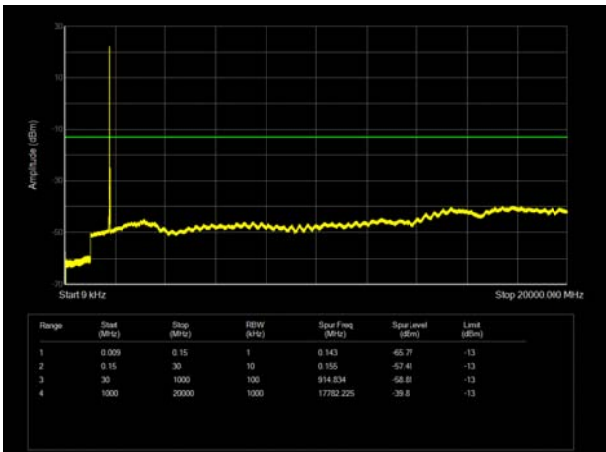
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



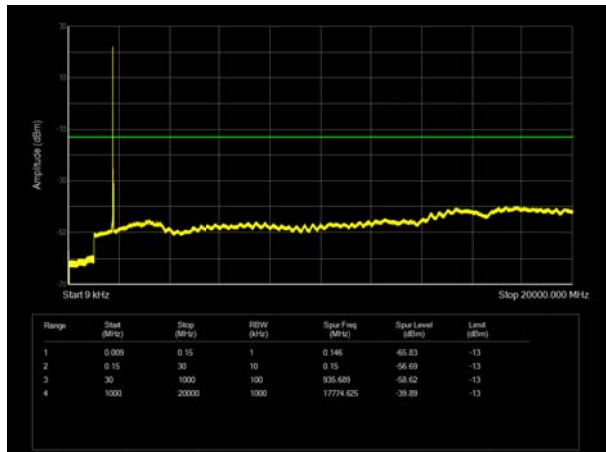
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



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

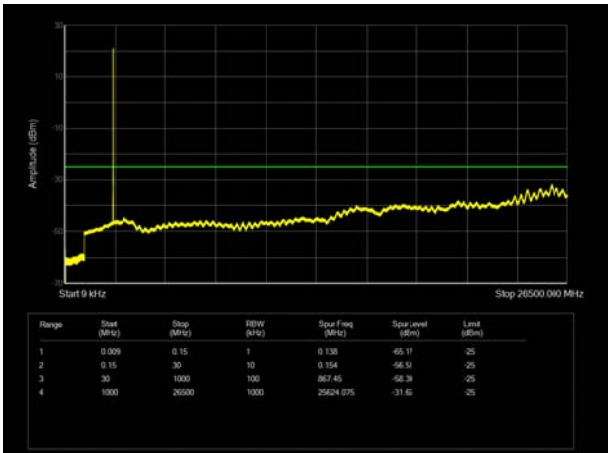


LTE Band 4 20MHz CH- High 9kHz~20GHz

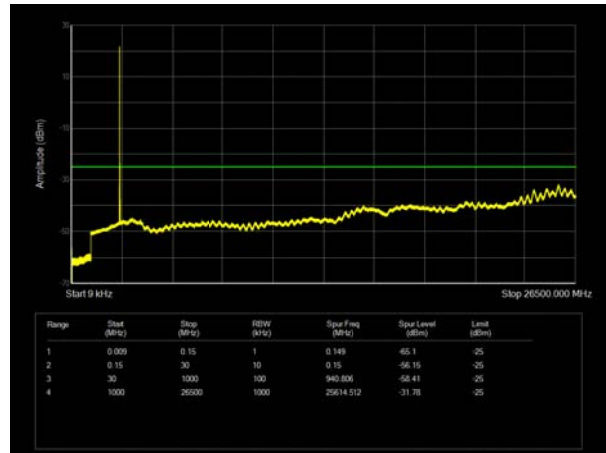




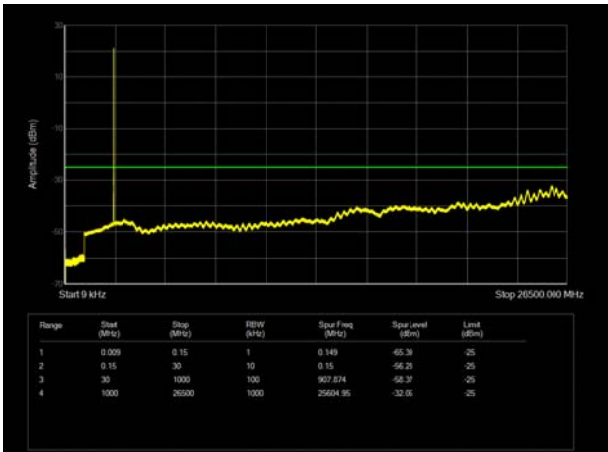
LTE Band 7 5MHz CH- Low 9kHz~26.5GHz



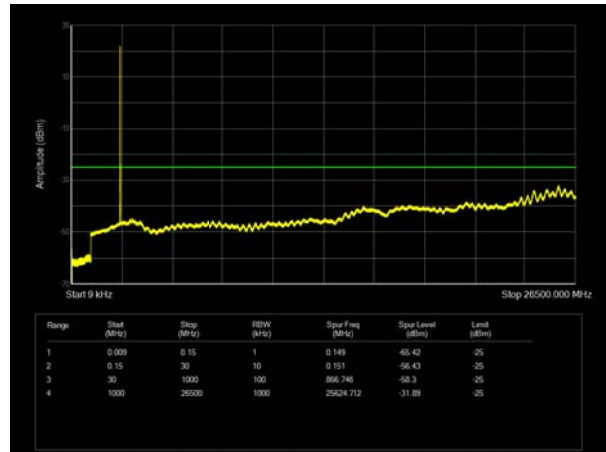
LTE Band 7 10MHz CH-Low 9kHz~26.5GHz



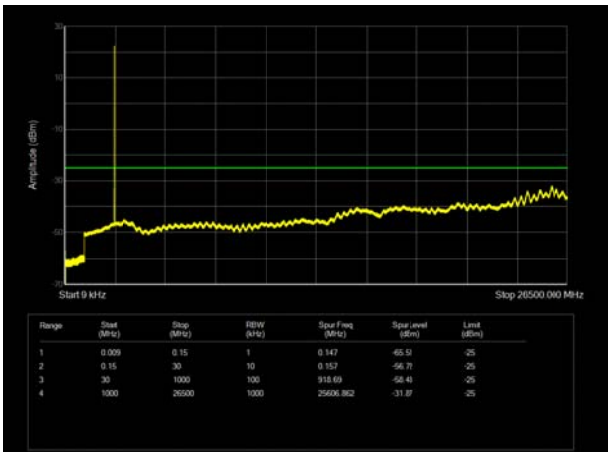
LTE Band 7 5MHz CH- Middle 9kHz~26.5GHz



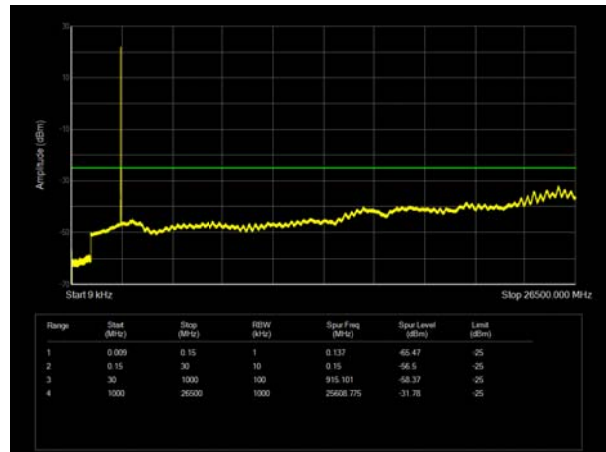
LTE Band 7 10MHz CH- Middle 9kHz~26.5GHz



LTE Band 7 5MHz CH-High 9kHz~26.5GHz

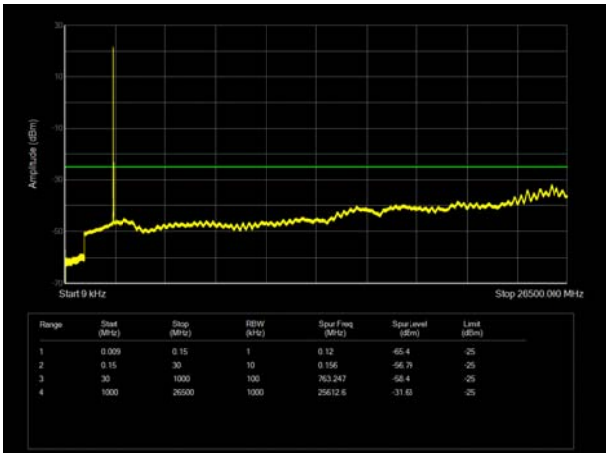


LTE Band 7 10MHz CH- High 9kHz~26.5GHz

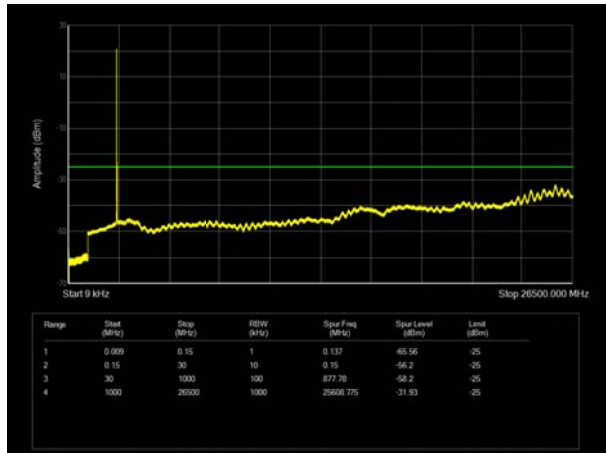




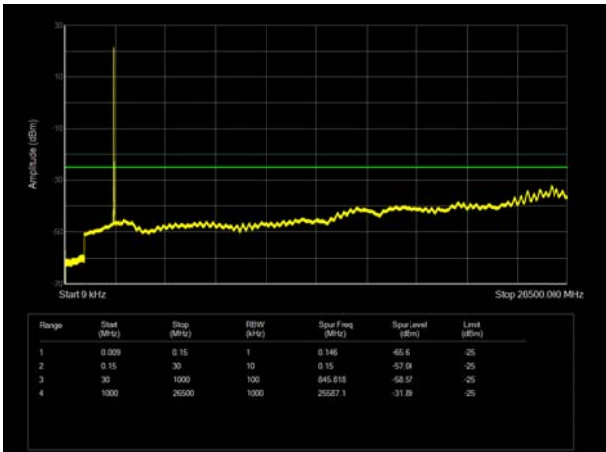
LTE Band 7 15MHz CH- Low 9kHz~26.5GHz



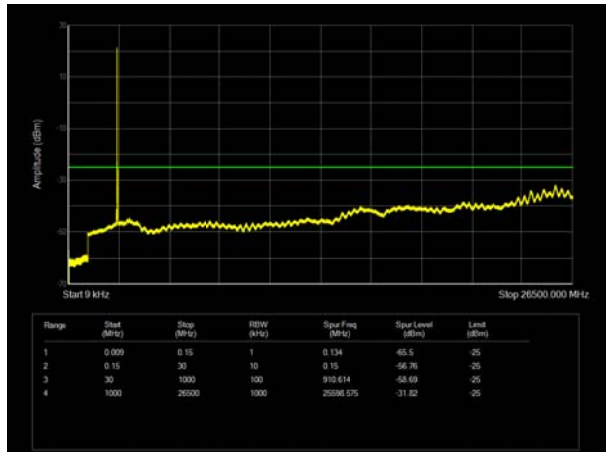
LTE Band 7 20MHz CH-Low 9kHz~26.5GHz



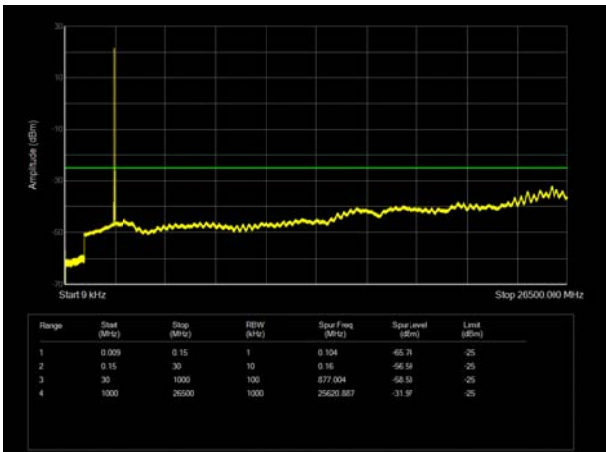
LTE Band 7 15MHz CH- Middle 9kHz~26.5GHz



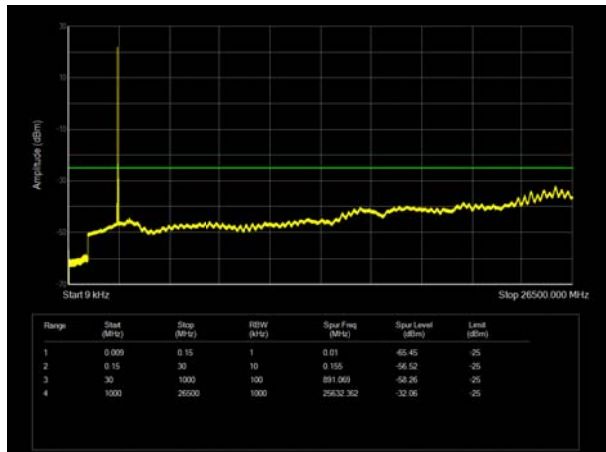
LTE Band 7 20MHz CH- Middle 9kHz~26.5GHz



LTE Band 7 15MHz CH-High 9kHz~26.5GHz

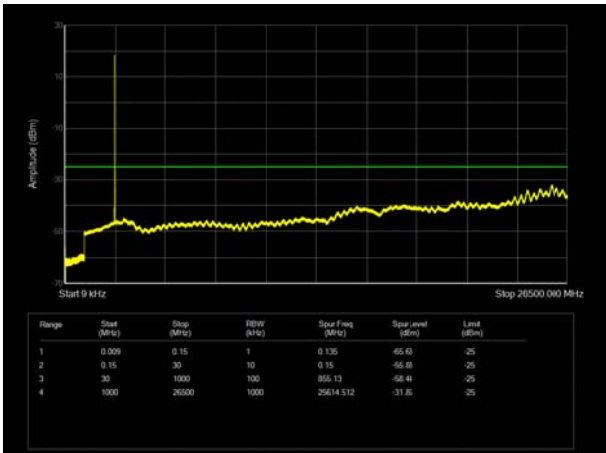


LTE Band 7 20MHz CH- High 9kHz~26.5GHz

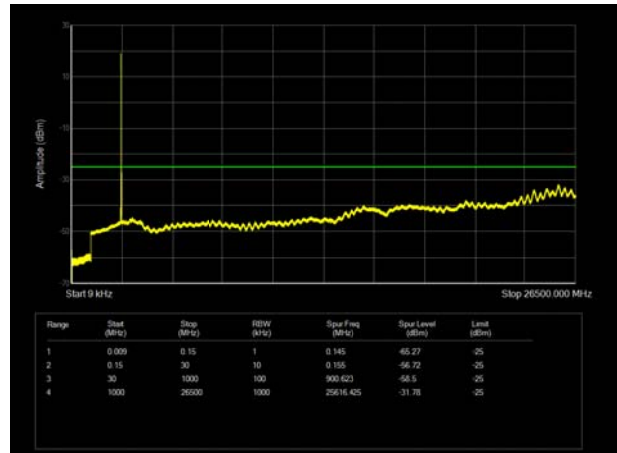




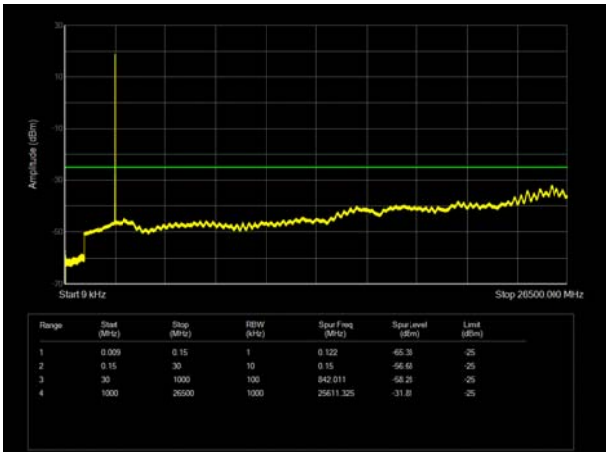
LTE Band 38 5MHz CH- Low 9kHz~26.5GHz



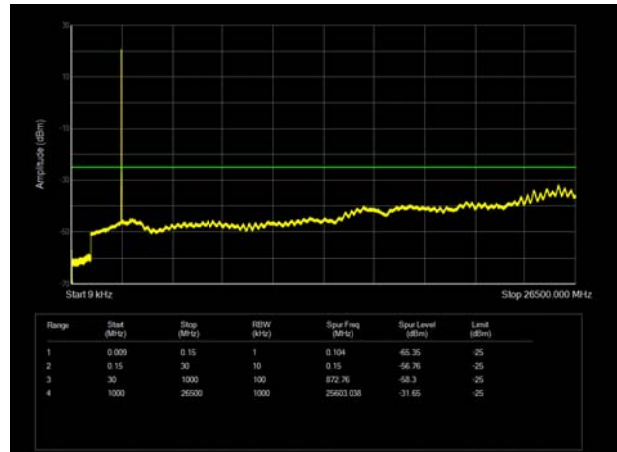
LTE Band 38 10MHz CH- Low 9kHz~26.5GHz



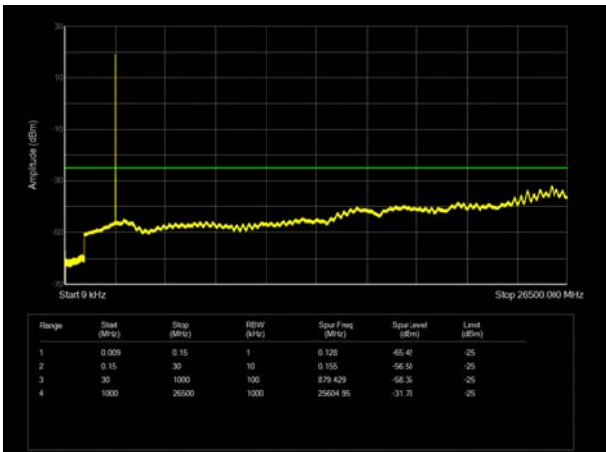
LTE Band 38 5MHz CH- Middle 9kHz~26.5GHz



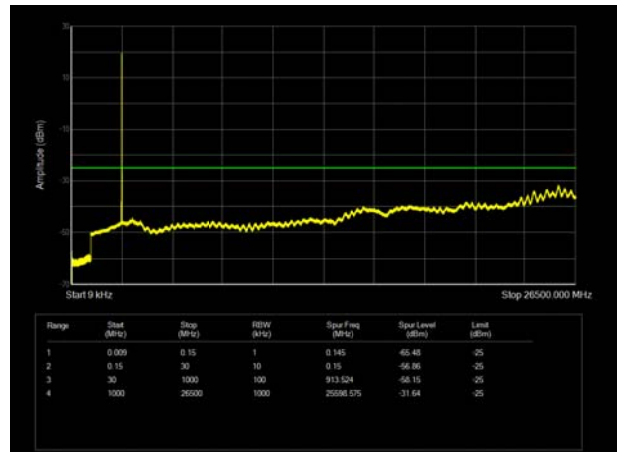
LTE Band 38 10MHz CH- Middle 9kHz~26.5GHz



LTE Band 38 5MHz CH-High 9kHz~26.5GHz

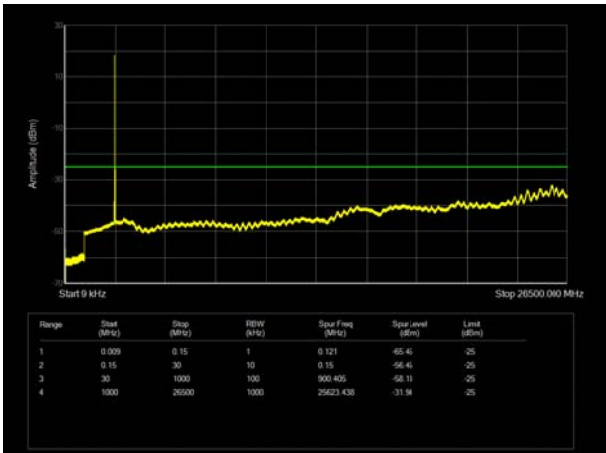


LTE Band 38 10MHz CH-High 9kHz~26.5GHz

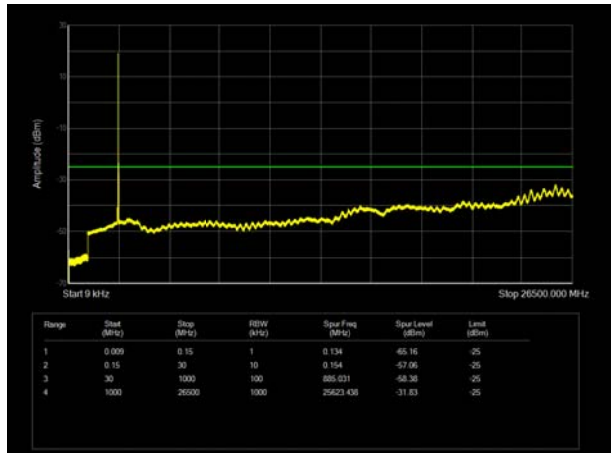




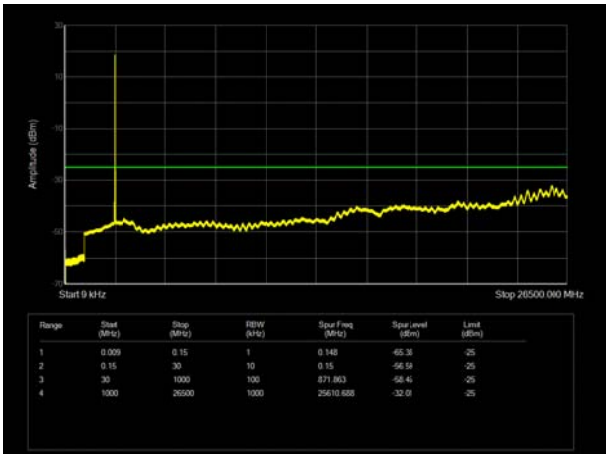
LTE Band 38 15MHz CH- Low 9kHz~26.5GHz



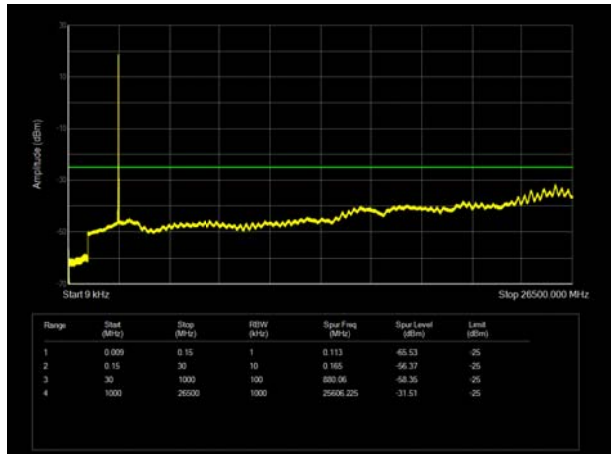
LTE Band 38 20MHz CH-Low 9kHz~26.5GHz



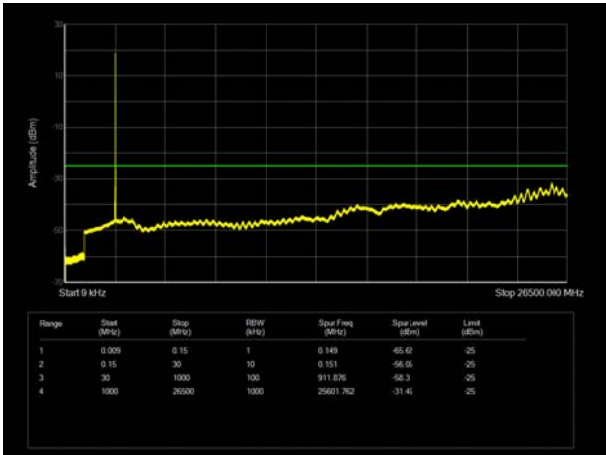
LTE Band 38 15MHz CH- Middle 9kHz~26.5GHz



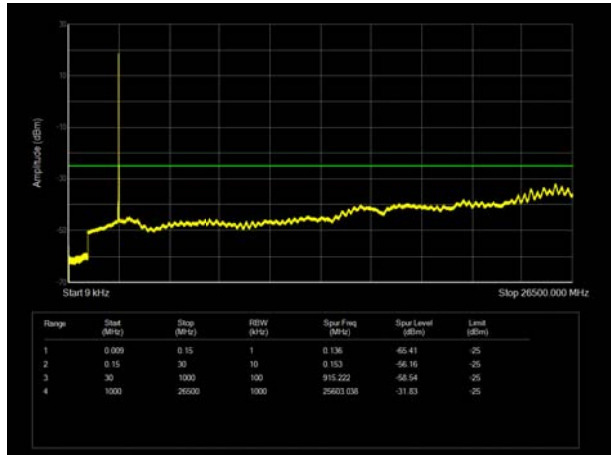
LTE Band 38 20MHz CH- Middle 9kHz~26.5GHz



LTE Band 38 15MHz CH-High 9kHz~26.5GHz

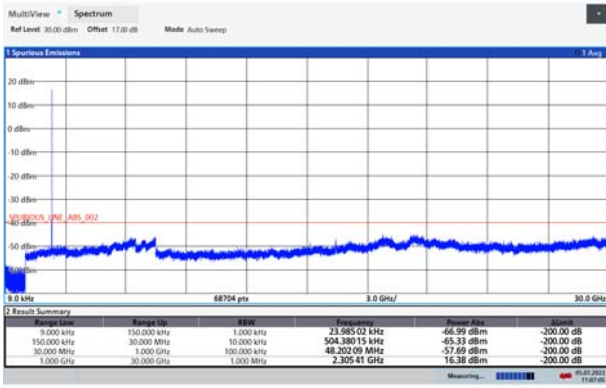


LTE Band 38 20MHz CH- High 9kHz~26.5GHz



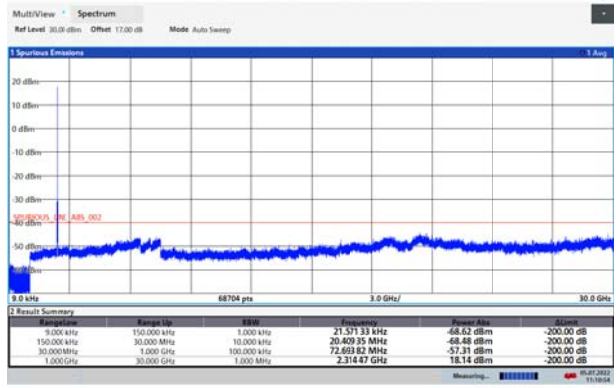


LTE Band 40 Subset 1 5MHz CH- Low 9kHz~30GHz



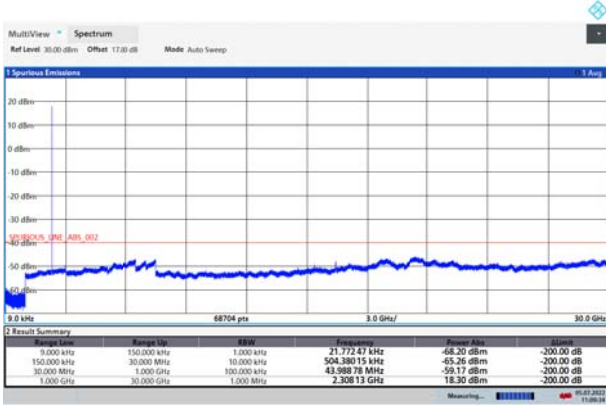
11:07:04 05.07.2022

LTE Band 40 Subset 1 10MHz 9kHz~30GHz



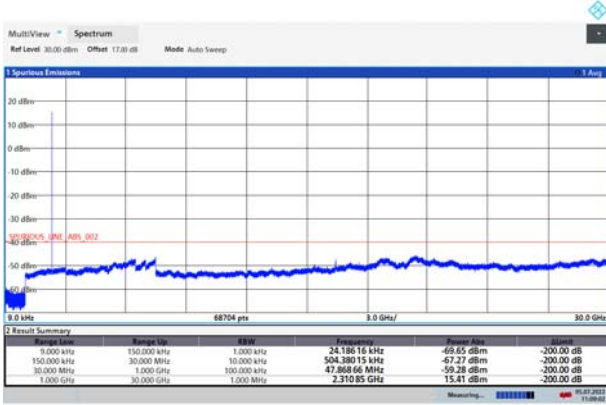
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LTE Band 40 Subset 1 5MHz CH- Middle 9kHz~30GHz



11:09:35 05.07.2022

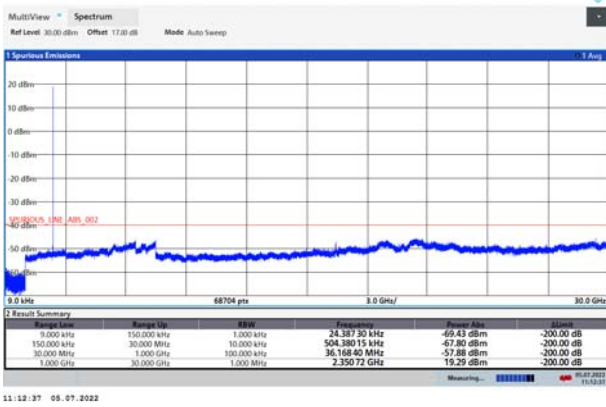
LTE Band 40 Subset 1 5MHz CH-High 9kHz~30GHz



11:09:03 05.07.2022

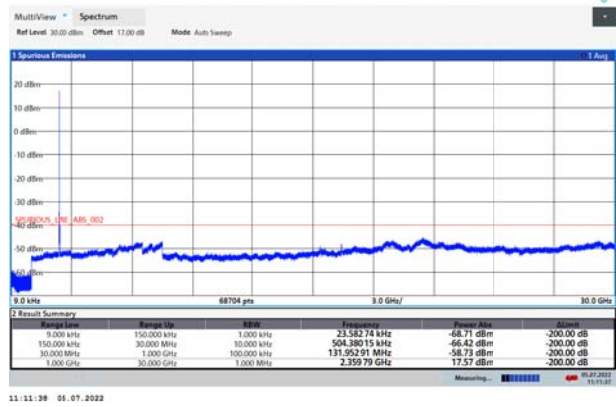


LTE Band 40 Subset 2 5MHz CH- Low 9kHz~30GHz



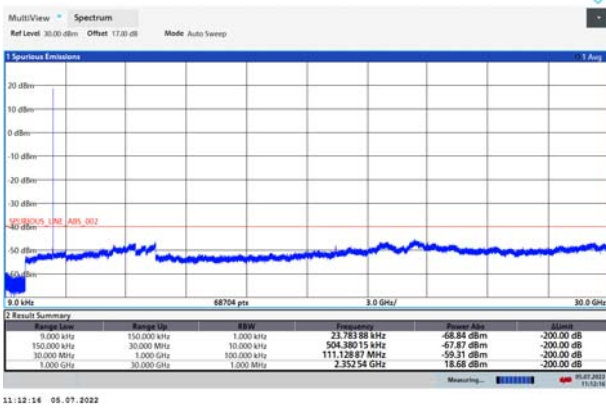
11:12:37 05.07.2022

LTE Band 40 Subset 2 10MHz 9kHz~30GHz



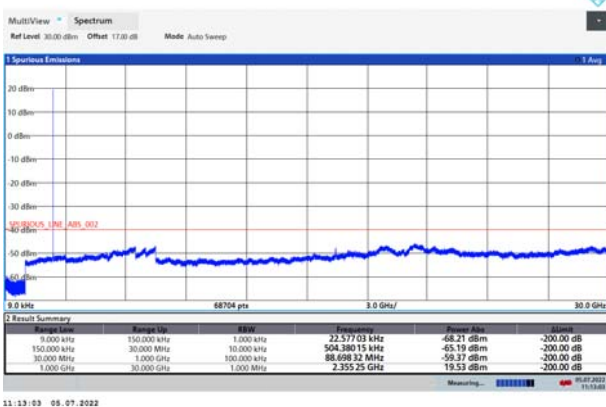
11:11:38 05.07.2022

LTE Band 40 Subset 2 5MHz CH- Middle 9kHz~30GHz



11:12:14 05.07.2022

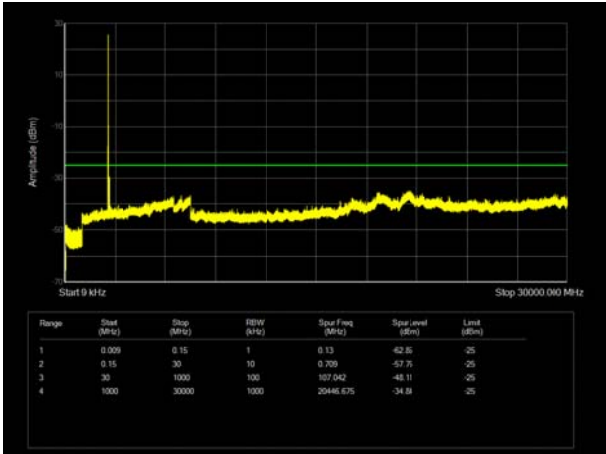
LTE Band 40 Subset 2 5MHz CH-High 9kHz~30GHz



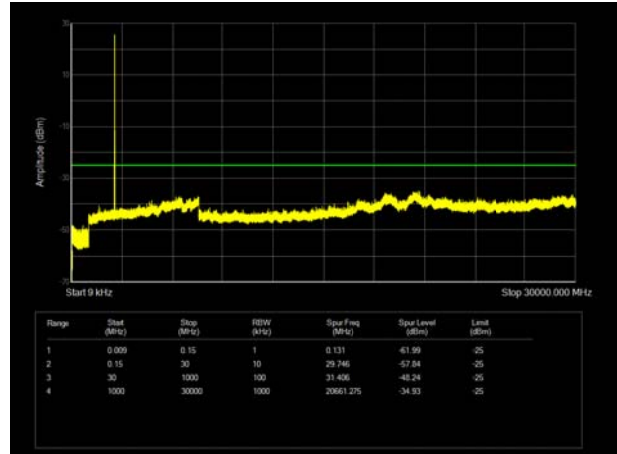
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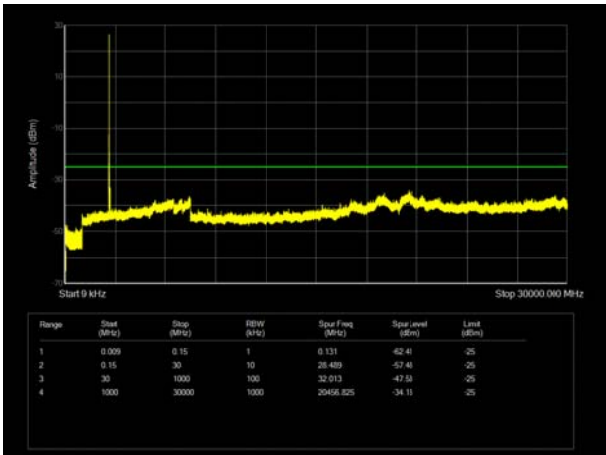
LTE Band 41 5MHz CH- Low 9kHz~30GHz



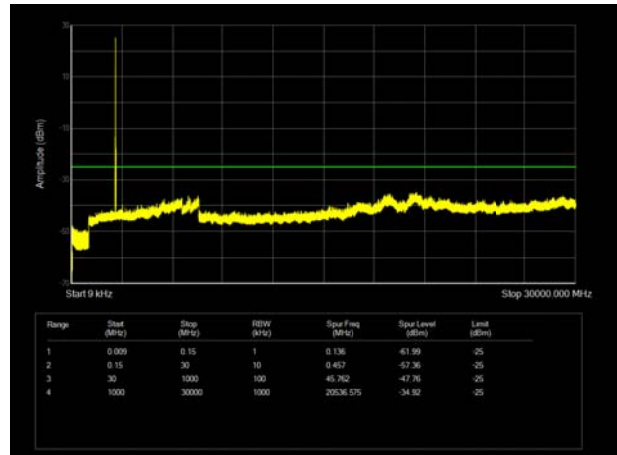
LTE Band 41 10MHz CH-Low 9kHz~30GHz



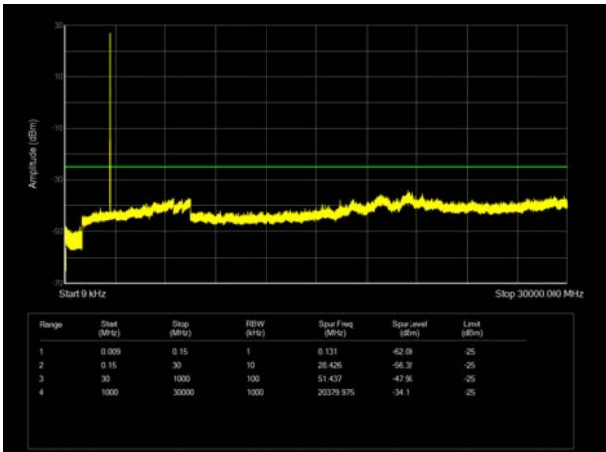
LTE Band 41 5MHz CH- Middle 9kHz~30GHz



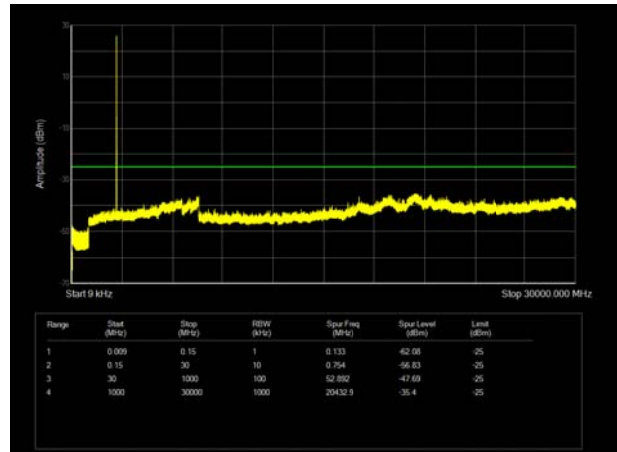
LTE Band 41 10MHz CH- Middle 9kHz~30GHz



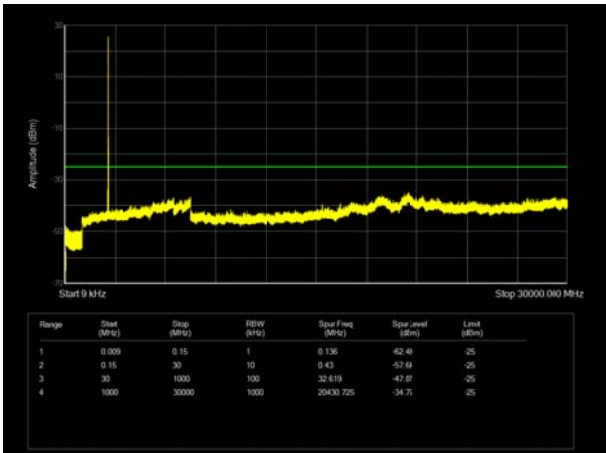
LTE Band 41 5MHz CH-High 9kHz~30GHz



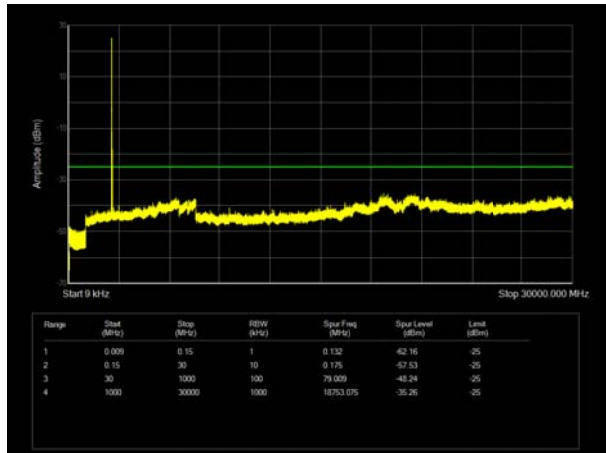
LTE Band 41 10MHz CH- High 9kHz~30GHz



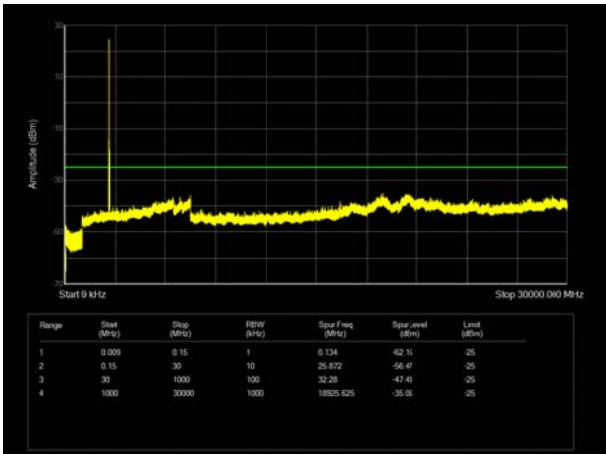
LTE Band 41 15MHz CH- Low 9kHz~30GHz



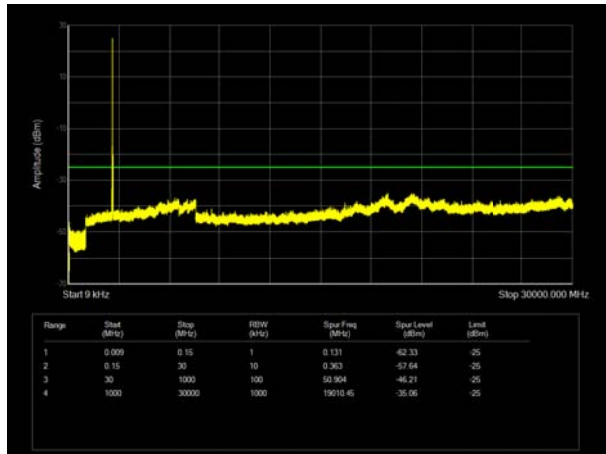
LTE Band 41 20MHz CH-Low 9kHz~30GHz



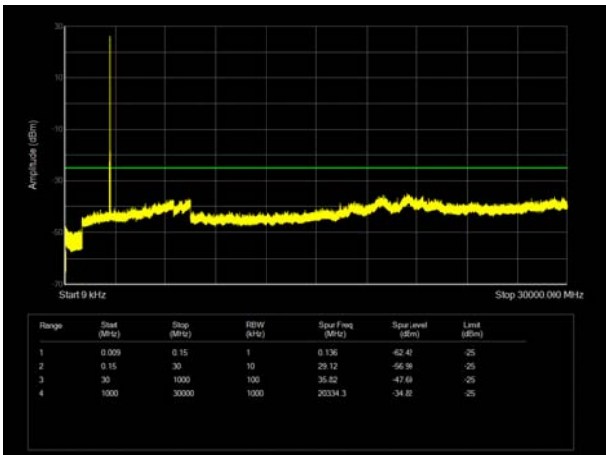
LTE Band 41 15MHz CH- Middle 9kHz~30GHz



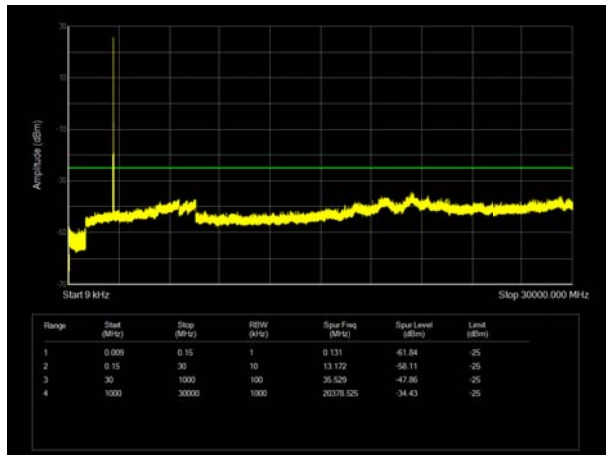
LTE Band 41 20MHz CH- Middle 9kHz~30GHz



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



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



6.7 Radiates 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	-37.78	2.70	12.70	Vertical	-27.78	-13.00	14.78	90
3	5197.80	-59.59	3.20	12.50	Vertical	-50.29	-13.00	37.29	45
4	6930.40	-41.90	4.20	11.80	Vertical	-34.30	-13.00	21.30	225
5	8663.00	-46.30	4.40	12.50	Vertical	-38.20	-13.00	25.20	90
6	10395.60	-45.32	4.70	11.30	Vertical	-38.72	-13.00	25.72	45
7	12128.20	-54.47	5.20	13.80	Vertical	-45.87	-13.00	32.87	270
8	13860.80	-46.37	5.70	11.30	Vertical	-40.77	-13.00	27.77	90
9	15593.40	-55.57	6.10	16.80	Vertical	-44.87	-13.00	31.87	45
10	17326.00	-49.71	6.10	14.20	Vertical	-41.61	-13.00	28.61	135

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 4 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	3464.25	-40.26	2.70	12.70	Vertical	-30.26	-13.00	17.26	90
3	5197.50	-45.00	3.20	12.50	Vertical	-35.70	-13.00	22.70	0
4	6930.00	-34.71	4.20	11.80	Vertical	-27.11	-13.00	14.11	45
5	8662.50	-41.36	4.40	12.50	Vertical	-33.26	-13.00	20.26	225
6	10395.00	-39.65	4.70	11.30	Vertical	-33.05	-13.00	20.05	90
7	12127.50	-46.23	5.20	13.80	Vertical	-37.63	-13.00	24.63	45
8	13860.00	-41.54	5.70	11.30	Vertical	-35.94	-13.00	22.94	135
9	15592.50	-54.74	6.10	16.80	Vertical	-44.04	-13.00	31.04	90
10	17325.00	-50.02	6.10	14.20	Vertical	-41.92	-13.00	28.92	225

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 4 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	3460.50	-39.94	2.70	12.70	Vertical	-29.94	-13.00	16.94	45
3	5191.50	-44.39	3.20	12.50	Vertical	-35.09	-13.00	22.09	270
4	6930.00	-35.67	4.20	11.80	Vertical	-28.07	-13.00	15.07	90
5	8662.50	-41.59	4.40	12.50	Vertical	-33.49	-13.00	20.49	0
6	10380.00	-41.42	4.70	11.30	Vertical	-34.82	-13.00	21.82	45
7	12110.00	-48.70	5.20	13.80	Vertical	-40.10	-13.00	27.10	315
8	13840.00	-40.27	5.70	11.30	Vertical	-34.67	-13.00	21.67	90
9	15570.00	-55.47	6.10	16.80	Vertical	-44.77	-13.00	31.77	45
10	17300.00	-49.39	6.10	14.20	Vertical	-41.29	-13.00	28.29	225

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 4 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	3445.00	-41.30	2.70	12.70	Vertical	-31.30	-13.00	18.30	90
3	5167.50	-40.54	3.20	12.50	Vertical	-31.24	-13.00	18.24	135
4	6890.00	-38.48	4.20	11.80	Vertical	-30.88	-13.00	17.88	90
5	8612.50	-43.83	4.40	12.50	Vertical	-35.73	-13.00	22.73	45
6	10335.00	-43.42	4.70	11.30	Vertical	-36.82	-13.00	23.82	225
7	12057.50	-51.07	5.20	13.80	Vertical	-42.47	-13.00	29.47	90
8	13780.00	-42.89	5.70	11.30	Vertical	-37.29	-13.00	24.29	45
9	15502.50	-54.35	6.10	16.80	Vertical	-43.65	-13.00	30.65	315
10	17225.00	-49.68	6.10	14.20	Vertical	-41.58	-13.00	28.58	0

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 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	-32.25	3.40	12.50	Vertical	-23.15	-25.00	-1.85	180
3	7597.50	-37.25	4.40	12.20	Vertical	-29.45	-25.00	4.45	90
4	10130.00	-39.97	4.70	11.30	Vertical	-33.37	-25.00	8.37	45
5	12662.50	-45.77	5.40	13.20	Vertical	-37.97	-25.00	12.97	225
6	15195.00	-42.89	6.10	13.10	Vertical	-35.89	-25.00	10.89	90
7	17727.50	-45.64	6.10	14.20	Vertical	-37.54	-25.00	12.54	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 Vertical 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	-34.56	3.40	12.50	Vertical	-25.46	-25.00	0.46	45
3	7575.00	-35.62	4.40	12.20	Vertical	-27.82	-25.00	2.82	135
4	10100.00	-41.44	4.70	11.30	Vertical	-34.84	-25.00	9.84	90
5	12625.00	-45.65	5.40	13.20	Vertical	-37.85	-25.00	12.85	45
6	15150.00	-43.42	6.10	13.10	Vertical	-36.42	-25.00	11.42	225
7	17675.00	-49.67	6.10	14.20	Vertical	-41.57	-25.00	16.57	90
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 Vertical position.



LTE Band 38 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	5185.00	-40.19	3.20	12.50	Vertical	-30.89	-25.00	5.89	225
3	7777.50	-34.12	4.40	12.30	Vertical	-26.22	-25.00	1.22	90
4	10370.00	-35.08	4.70	11.80	Vertical	-27.98	-25.00	2.98	45
5	12962.50	-47.13	5.40	14.00	Vertical	-38.53	-25.00	13.53	135
6	15555.00	-45.25	6.10	16.80	Vertical	-34.55	-25.00	9.55	90
7	18147.50	--	--	--	--	--	--	--	--
8	20740.00	--	--	--	--	--	--	--	--
9	23332.50	--	--	--	--	--	--	--	--
10	25925.00	--	--	--	--	--	--	--	--

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 38 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	5170.00	-38.07	3.20	12.50	Vertical	-28.77	-25.00	3.77	315
3	7755.00	-33.69	4.40	12.30	Vertical	-25.79	-25.00	0.79	225
4	10340.00	-34.75	4.70	11.80	Vertical	-27.65	-25.00	2.65	90
5	12925.00	-50.17	5.40	14.00	Vertical	-41.57	-25.00	16.57	45
6	15510.00	-50.34	6.10	16.80	Vertical	-39.64	-25.00	14.64	180
7	18095.00	--	--	--	--	--	--	--	--
8	20680.00	--	--	--	--	--	--	--	--
9	23265.00	--	--	--	--	--	--	--	--
10	25850.00	--	--	--	--	--	--	--	--

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 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	-53.35	3.20	12.50	Vertical	-44.05	-40.00	4.05	90
3	6922.50	-47.94	4.40	12.30	Vertical	-40.04	-40.00	0.04	0
4	9230.00	-48.26	4.70	11.80	Vertical	-41.16	-40.00	1.16	45
5	11537.50	-52.11	5.40	14.00	Vertical	-43.51	-40.00	3.51	315
6	13845.00	-60.27	6.10	16.80	Vertical	-49.57	-40.00	9.57	90
7	16152.50	-57.88	5.70	14.15	Vertical	-49.43	-40.00	9.43	225
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	-60.65	3.20	12.50	Vertical	-51.35	-40.00	11.35	0
3	6915.00	-54.30	4.40	12.30	Vertical	-46.40	-40.00	6.40	45
4	9220.00	-60.88	4.70	11.80	Vertical	-53.78	-40.00	13.78	315
5	11525.00	-60.87	5.40	14.00	Vertical	-52.27	-40.00	12.27	90
6	13830.00	-64.30	6.10	16.80	Vertical	-53.60	-40.00	13.60	45
7	16135.00	-63.79	5.70	14.15	Vertical	-55.34	-40.00	15.34	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	-59.37	3.20	12.50	Vertical	-50.07	-40.00	10.07	90
3	7057.50	-52.93	4.40	12.30	Vertical	-45.03	-40.00	5.03	0
4	9410.00	-61.99	4.70	11.80	Vertical	-54.89	-40.00	14.89	45
5	11762.50	-63.14	5.40	14.00	Vertical	-54.54	-40.00	14.54	225
6	14115.00	-61.32	6.10	16.80	Vertical	-50.62	-40.00	10.62	315
7	16467.50	-63.18	5.70	14.15	Vertical	-54.73	-40.00	14.73	180
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	-59.32	3.20	12.50	Vertical	-50.02	-40.00	10.02	45
3	7050.00	-53.00	4.40	12.30	Vertical	-45.10	-40.00	5.10	135
4	9400.00	-62.39	4.70	11.80	Vertical	-55.29	-40.00	15.29	180
5	11750.00	-63.56	5.40	14.00	Vertical	-54.96	-40.00	14.96	90
6	14100.00	-61.57	6.10	16.80	Vertical	-50.87	-40.00	10.87	45
7	16450.00	-63.29	5.70	14.15	Vertical	-54.84	-40.00	14.84	225
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	-38.48	3.20	12.50	Vertical	-29.18	-25.00	4.18	90
3	7771.50	-34.32	4.40	12.30	Vertical	-26.42	-25.00	1.42	0
4	10362.00	-32.97	4.70	11.80	Vertical	-25.87	-25.00	0.87	45
5	12952.50	-48.87	5.40	14.00	Vertical	-40.27	-25.00	15.27	180
6	15543.00	-45.45	6.10	16.80	Vertical	-34.75	-25.00	9.75	225
7	18133.50	-37.63	5.70	14.15	Vertical	-29.18	-25.00	4.18	90
8	20653.20	--	--	--	--	--	--	--	--
9	23234.85	--	--	--	--	--	--	--	--
10	25816.50	--	--	--	--	--	--	--	--

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	-39.43	3.20	12.50	Vertical	-30.13	-25.00	5.13	45
3	7749.00	-33.62	4.40	12.30	Vertical	-25.72	-25.00	0.72	315
4	10332.00	-38.93	4.70	11.80	Vertical	-31.83	-25.00	6.83	90
5	12915.00	-50.46	5.40	14.00	Vertical	-41.86	-25.00	16.86	45
6	15498.00	-46.29	6.10	16.80	Vertical	-35.59	-25.00	10.59	225
7	18023.60	--	--	--	--	--	--	--	--
8	20598.40	--	--	--	--	--	--	--	--
9	23173.20	--	--	--	--	--	--	--	--
10	25748.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.



7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11
Wideband radio communication tester	R&S	CMW500	113645	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2021-12-12	2022-12-11
Universal Radio Communication Tester	Agilent	E5515C	GB44400275	2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV3030	101411	2021-12-12	2022-12-11
Spectrum Analyzer	R&S	FSV30	104028	2021-12-12	2022-12-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019--9-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Software	R&S	EMC32	10.35.10	/	/

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



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.