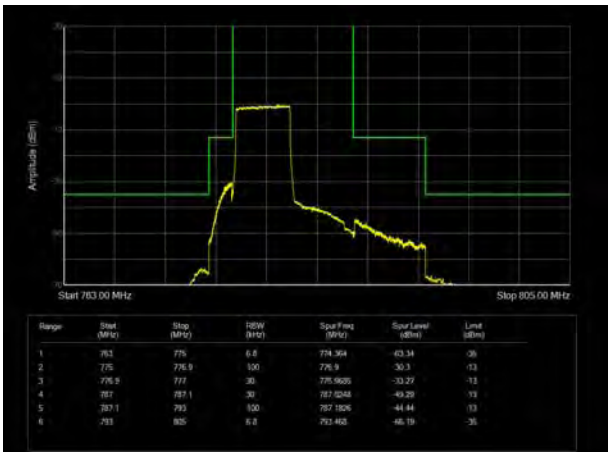
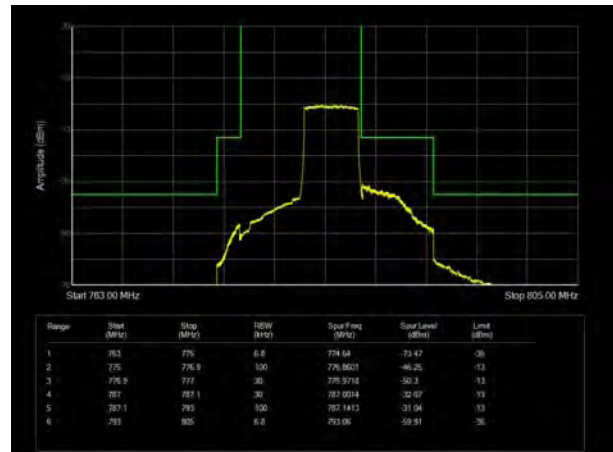


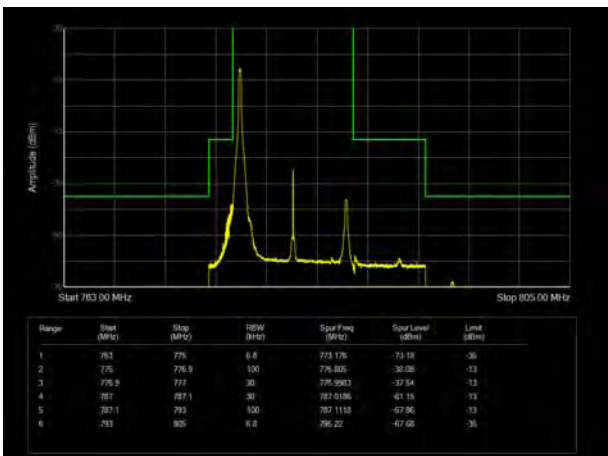
LTE Band 13 64QAM 5MHz CH-Low, 100%RB



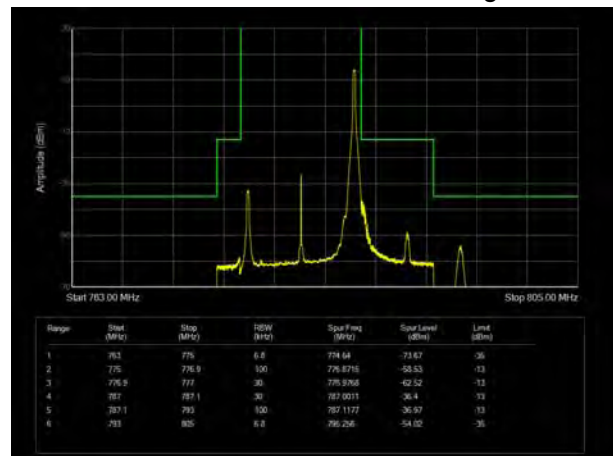
LTE Band 13 64QAM 5MHz CH-High, 100%RB



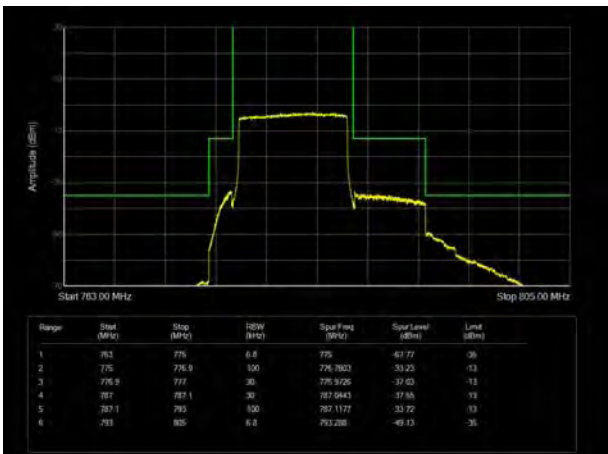
LTE Band 13 64QAM 10MHz CH-Low, 1 RB



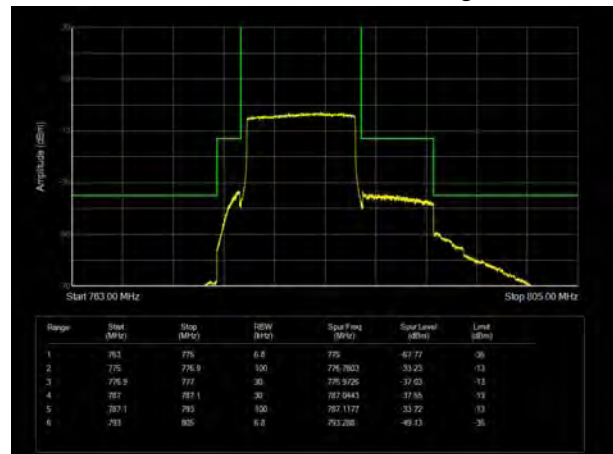
LTE Band 13 64QAM 10MHz CH-High, 1 RB



LTE Band 13 64QAM 10MHz CH-Low, 100%RB

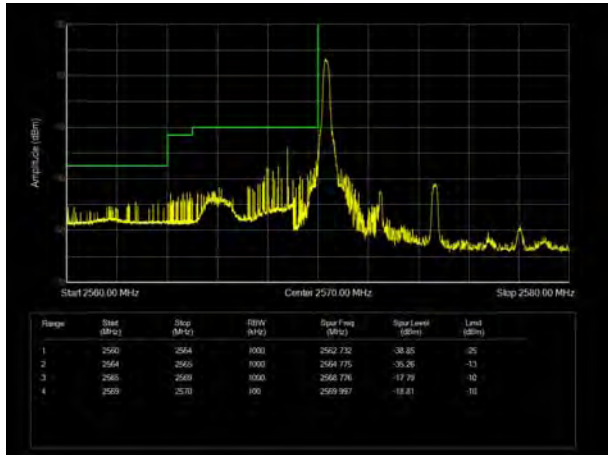


LTE Band 13 64QAM 10MHz CH-High, 100%RB

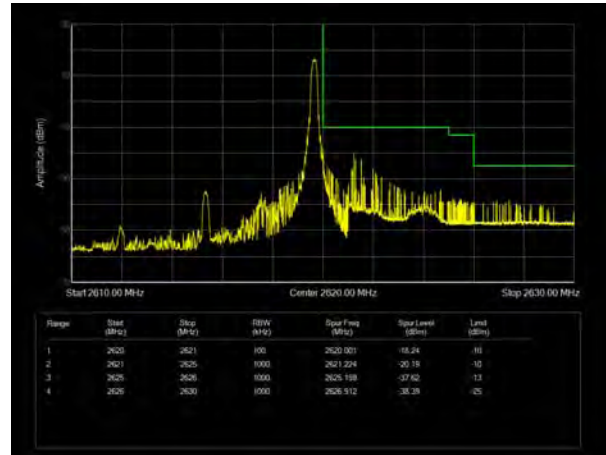




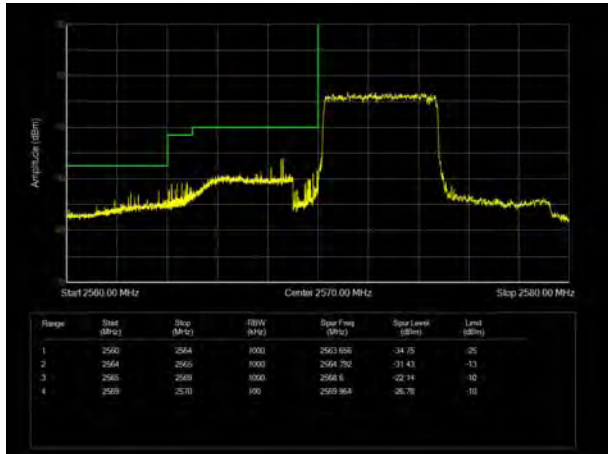
LTE Band 38 QPSK 5MHz CH-Low, 1 RB



LTE Band 38 QPSK 5MHz CH-High, 1 RB



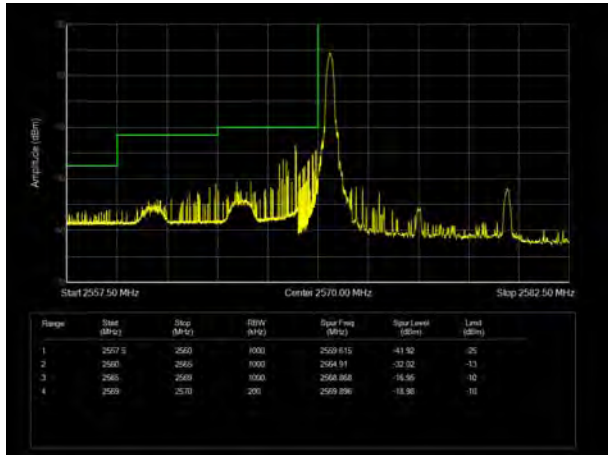
LTE Band 38 QPSK 5MHz CH-Low, 100%RB



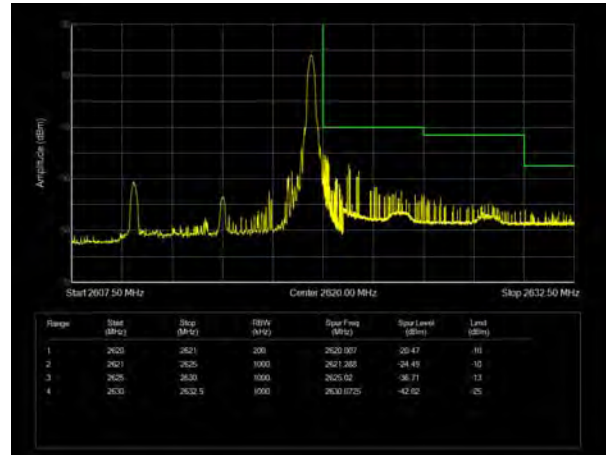
LTE Band 38 QPSK 5MHz CH-High, 100%RB



LTE Band 38 QPSK 10MHz CH-Low, 1 RB

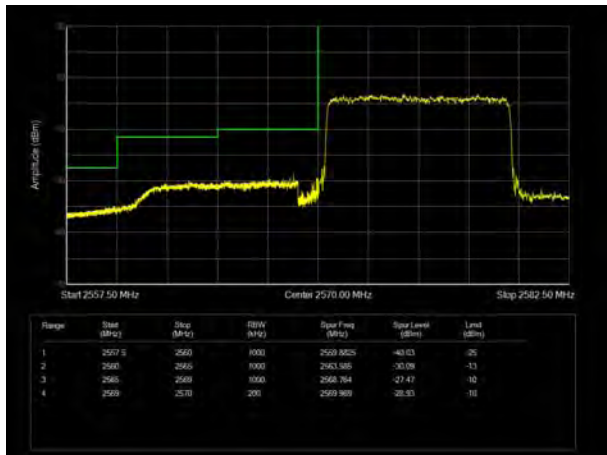


LTE Band 38 QPSK 10MHz CH-High, 1 RB

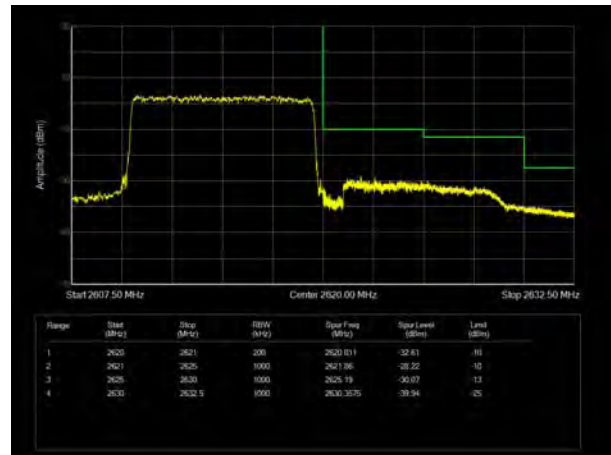




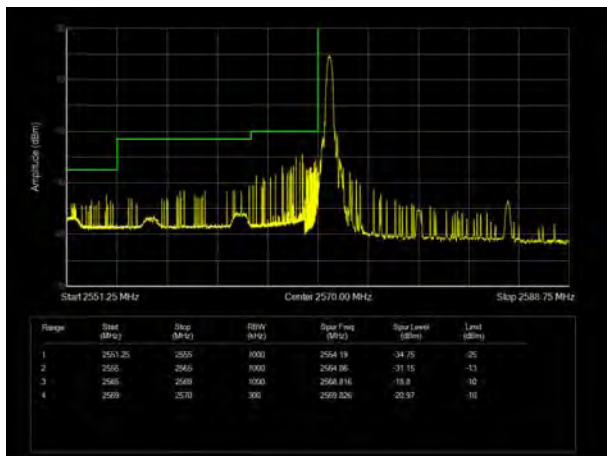
LTE Band 38 QPSK 10MHz CH-Low, 100%RB



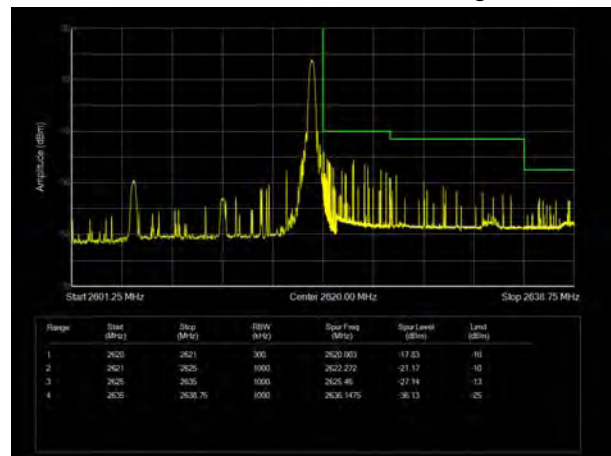
LTE Band 38 QPSK 10MHz CH-High, 100%RB



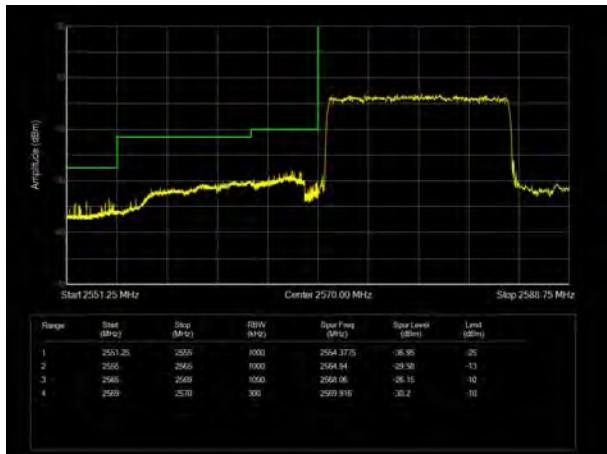
LTE Band 38 QPSK 15MHz CH-Low, 1 RB



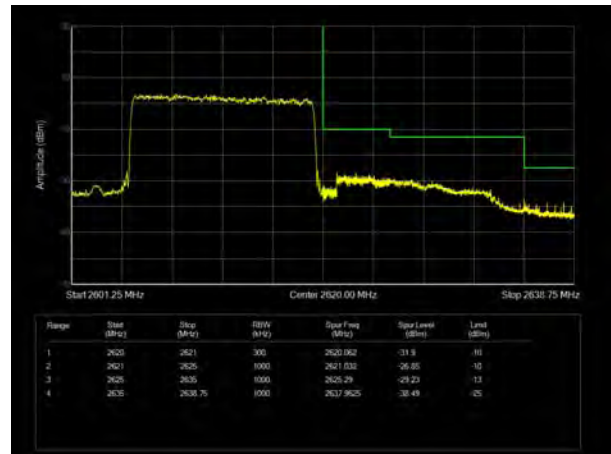
LTE Band 38 QPSK 15MHz CH-High, 1 RB



LTE Band 38 QPSK 15MHz CH-Low, 100%RB

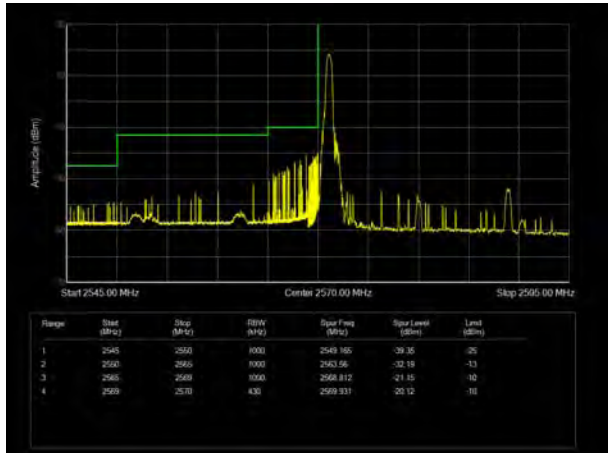


LTE Band 38 QPSK 15MHz CH-High, 100%RB

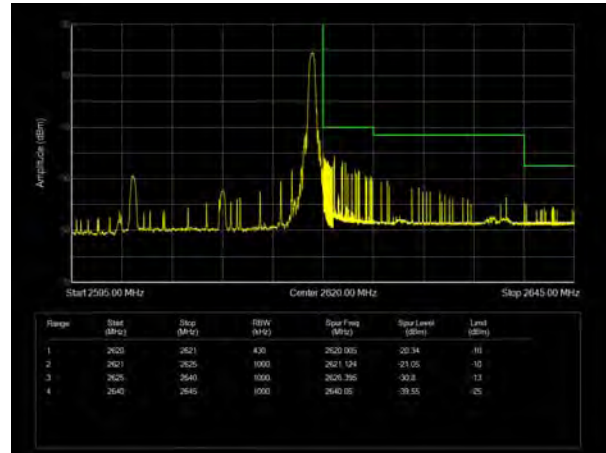




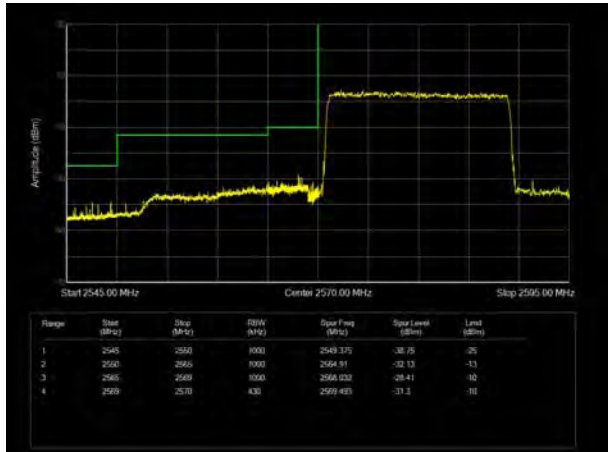
LTE Band 38 QPSK 20MHz CH-Low, 1 RB



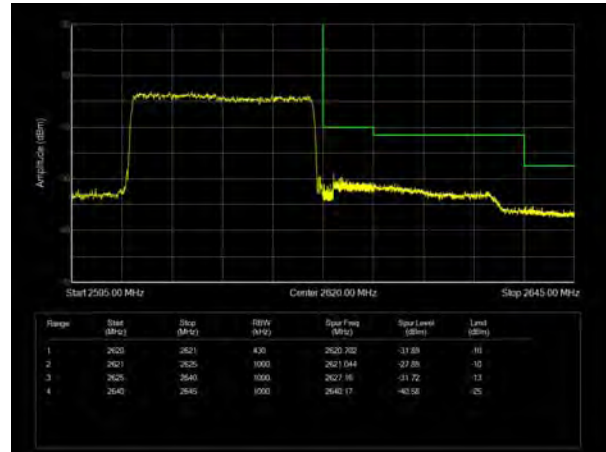
LTE Band 38 QPSK 20MHz CH-High, 1 RB



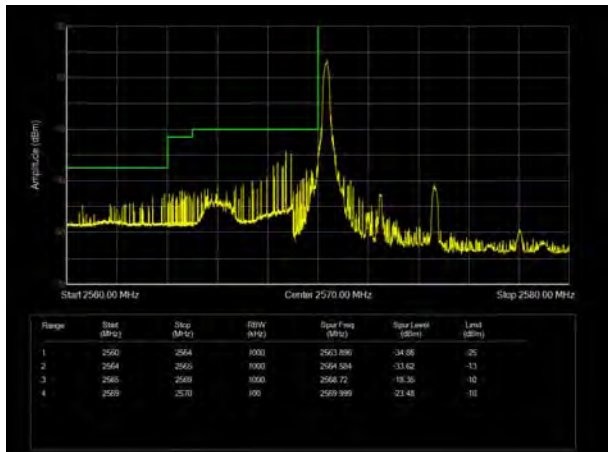
LTE Band 38 QPSK 20MHz CH-Low, 100%RB



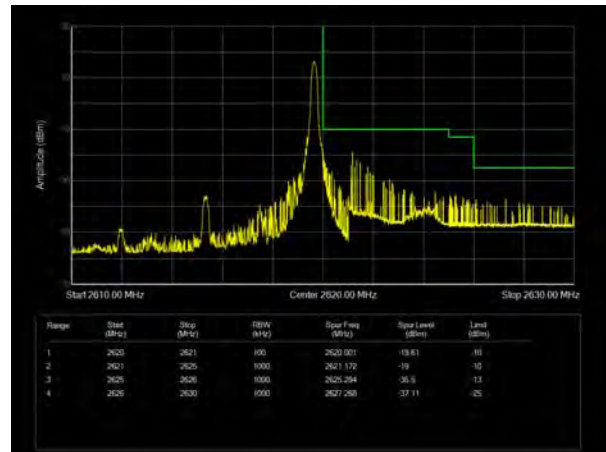
LTE Band 38 QPSK 20MHz CH-High, 100%RB



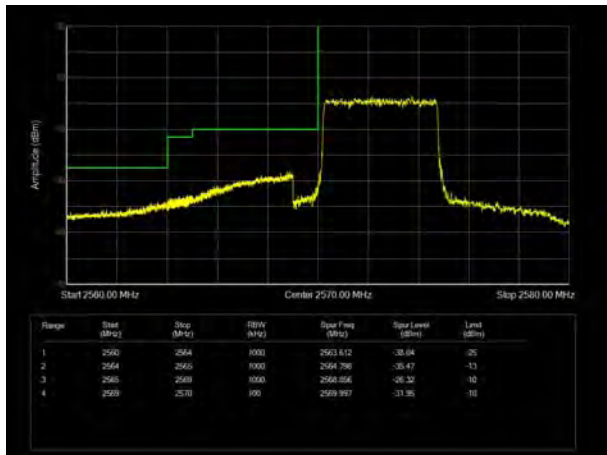
LTE Band 38 16QAM 5MHz CH-Low, 1 RB



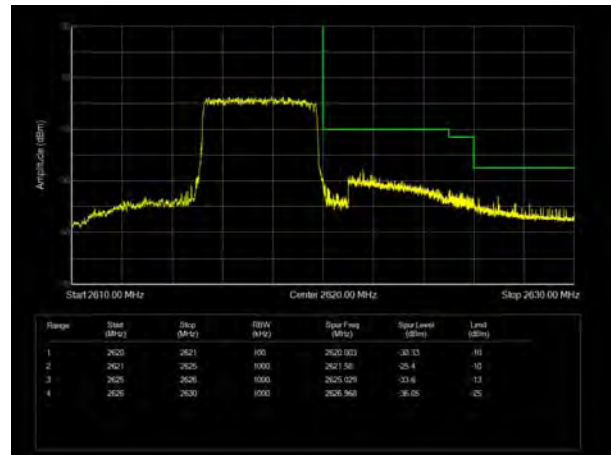
LTE Band 38 16QAM 5MHz CH-High, 1 RB



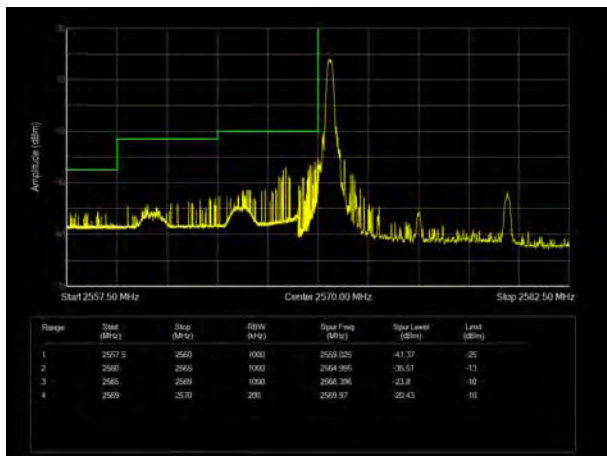
LTE Band 38 16QAM 5MHz CH-Low, 100%RB



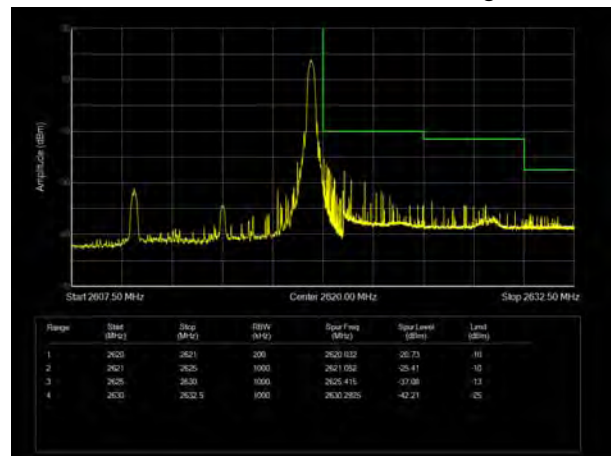
LTE Band 38 16QAM 5MHz CH-High, 100%RB



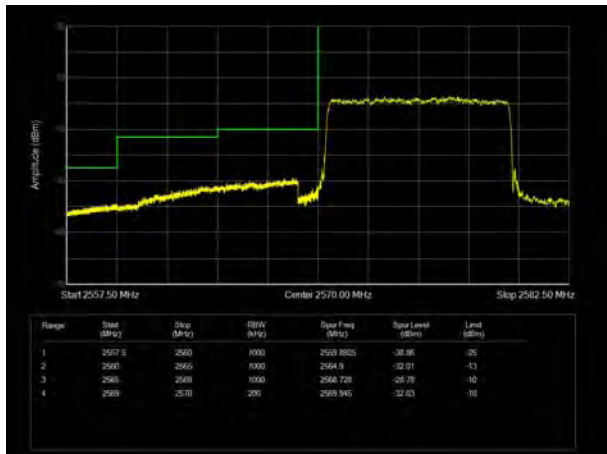
LTE Band 38 16QAM 10MHz CH-Low, 1 RB



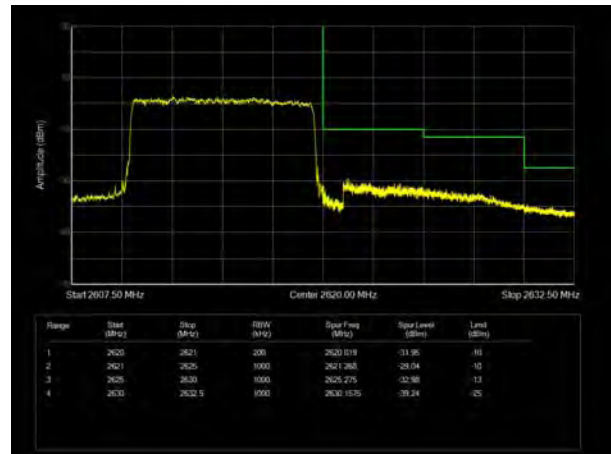
LTE Band 38 16QAM 10MHz CH-High, 1 RB



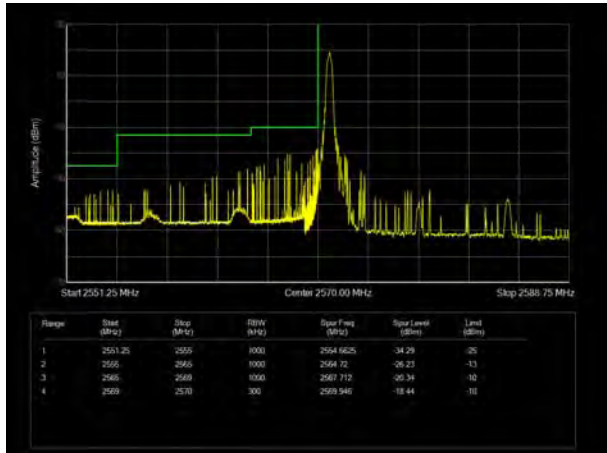
LTE Band 38 16QAM 10MHz CH-Low, 100%RB



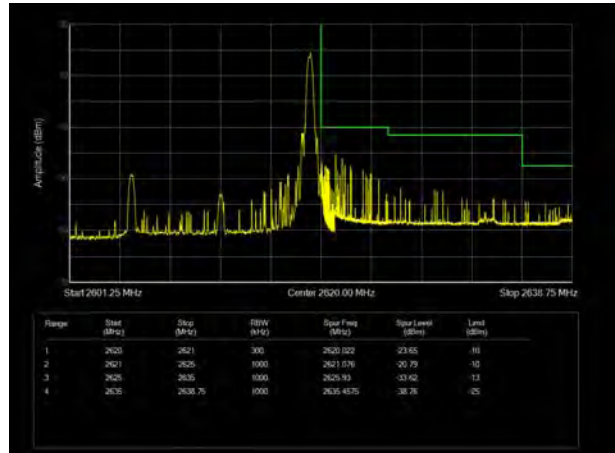
LTE Band 38 16QAM 10MHz CH-High, 100%RB



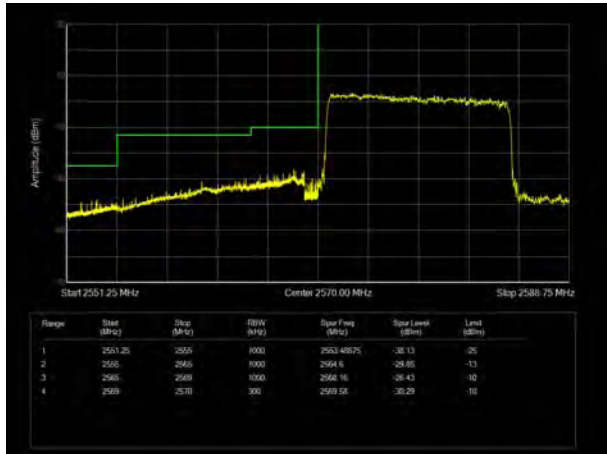
LTE Band 38 16QAM 15MHz CH-Low, 1 RB



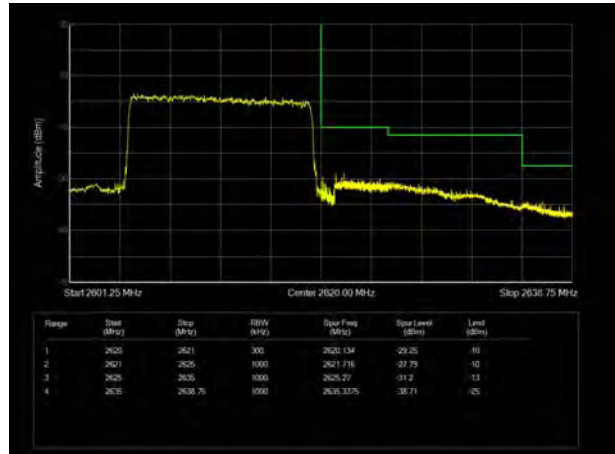
LTE Band 38 16QAM 15MHz CH-High, 1 RB



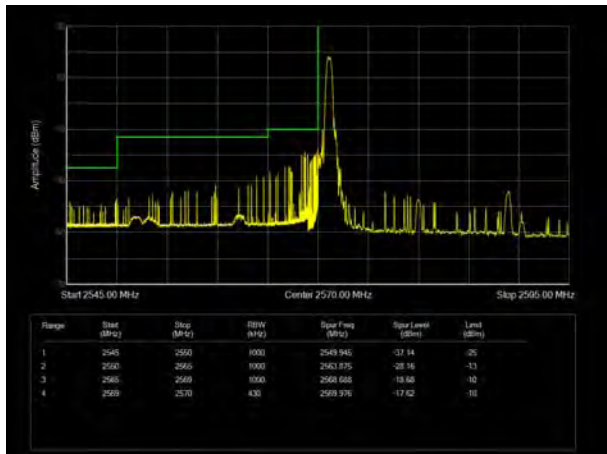
LTE Band 38 16QAM 15MHz CH-Low, 100%RB



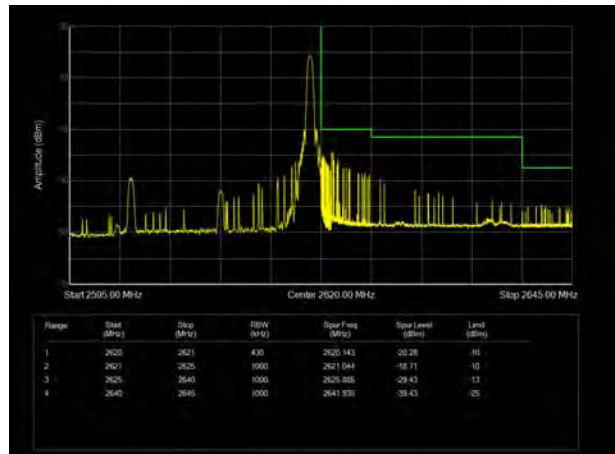
LTE Band 38 16QAM 15MHz CH-High, 100%RB



LTE Band 38 16QAM 20MHz CH-Low, 1 RB

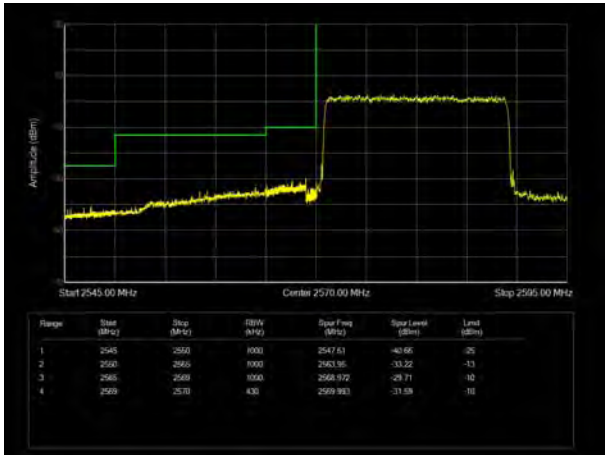


LTE Band 38 16QAM 20MHz CH-High, 1 RB

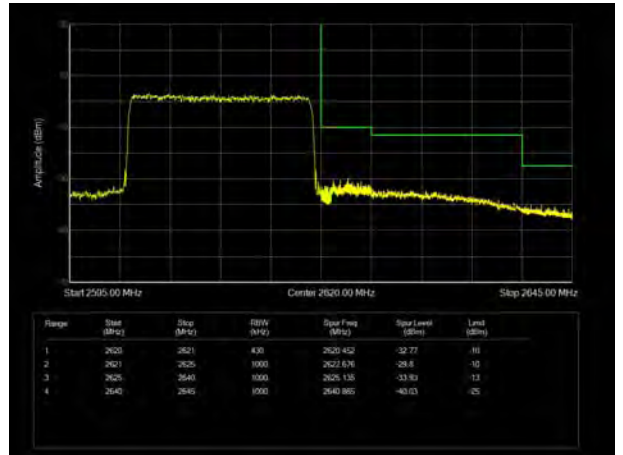




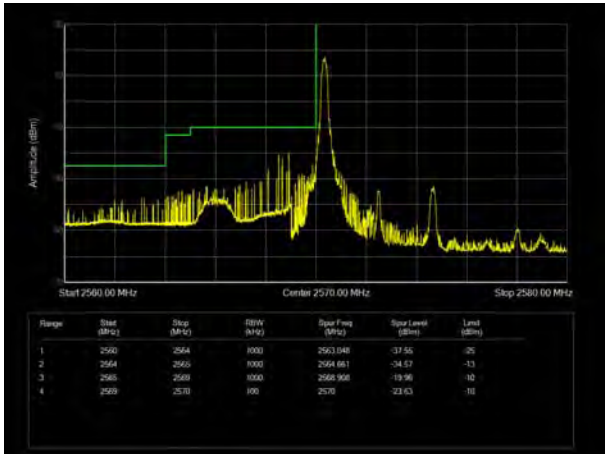
LTE Band 38 16QAM 20MHz CH-Low, 100%RB



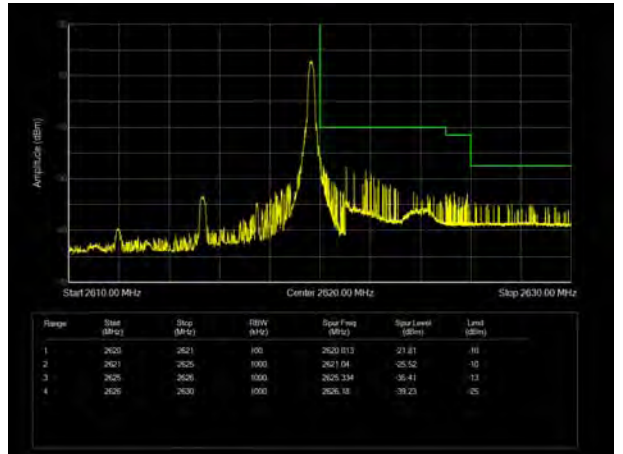
LTE Band 38 16QAM 20MHz CH-High, 100%RB



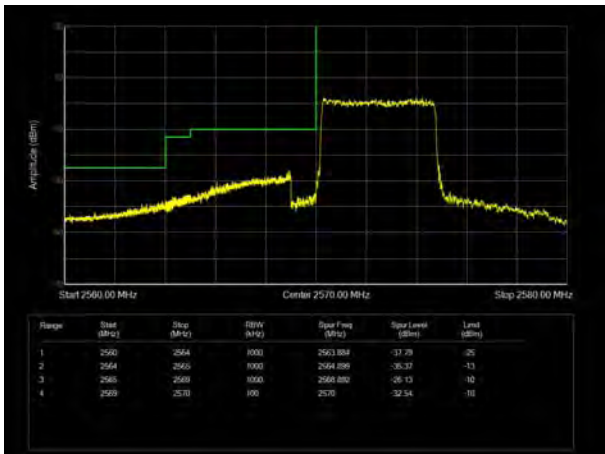
LTE Band 38 64QAM 5MHz CH-Low, 1 RB



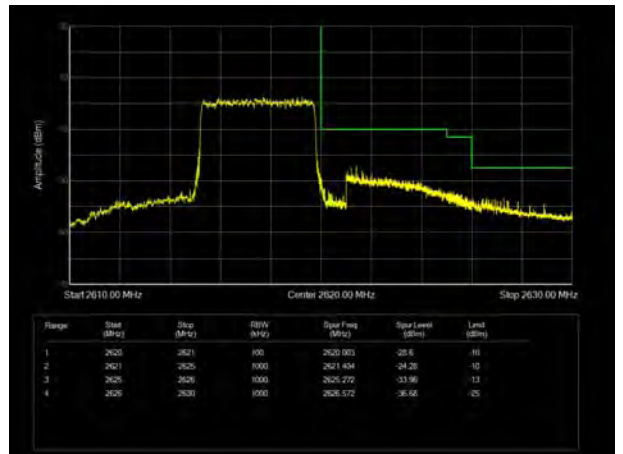
LTE Band 38 64QAM 5MHz CH-High, 1 RB



LTE Band 38 64QAM 5MHz CH-Low, 100%RB

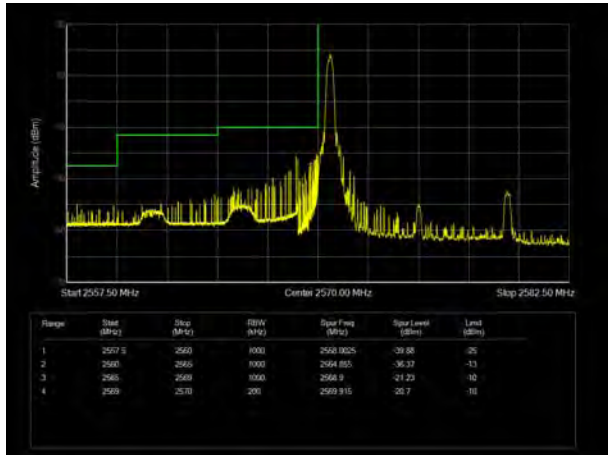


LTE Band 38 64QAM 5MHz CH-High, 100%RB

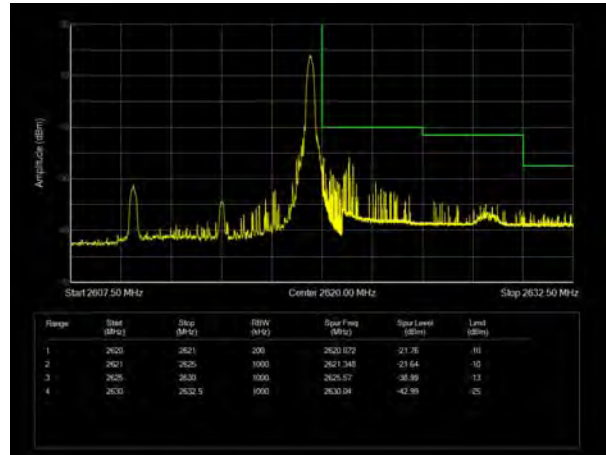




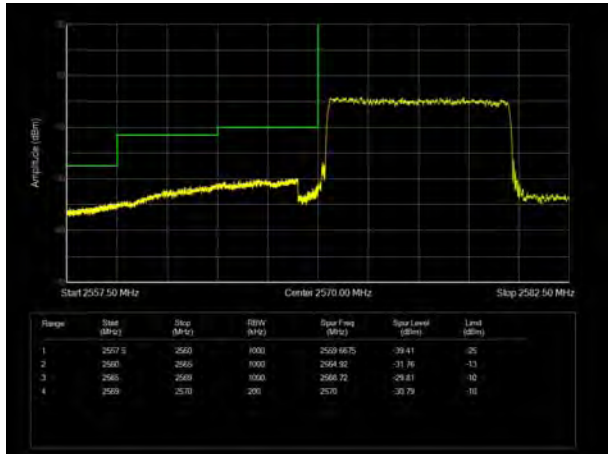
LTE Band 38 64QAM 10MHz CH-Low, 1 RB



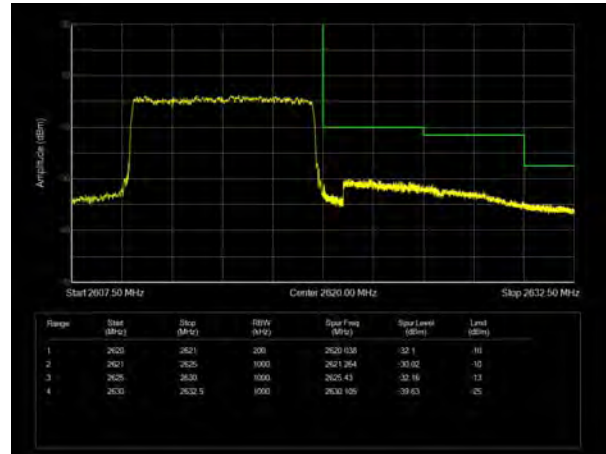
LTE Band 38 64QAM 10MHz CH-High, 1 RB



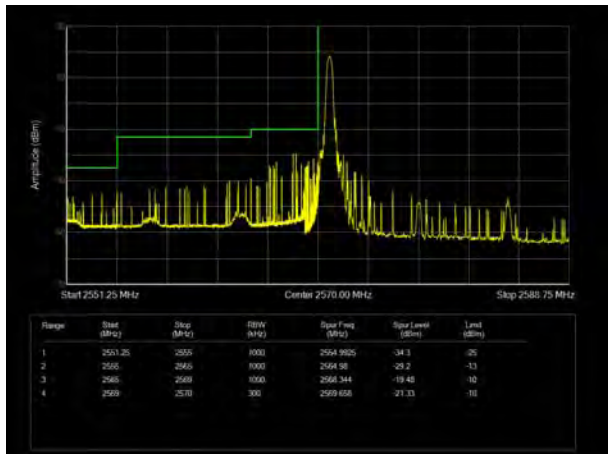
LTE Band 38 64QAM 10MHz CH-Low, 100%RB



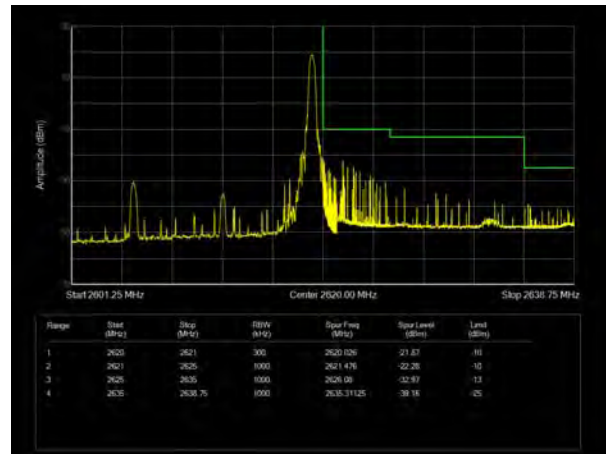
LTE Band 38 64QAM 10MHz CH-High, 100%RB



LTE Band 38 64QAM 15MHz CH-Low, 1 RB

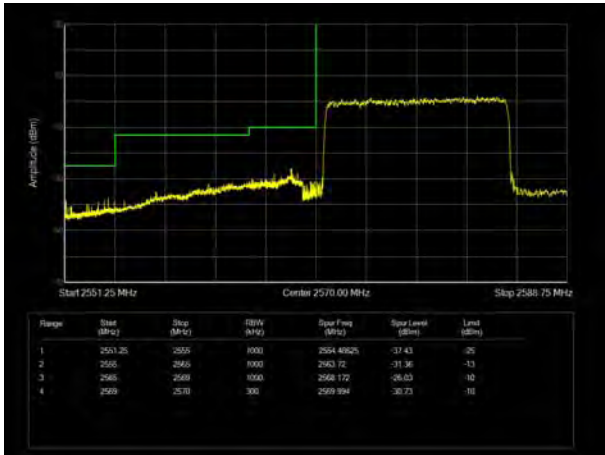


LTE Band 38 64QAM 15MHz CH-High, 1 RB

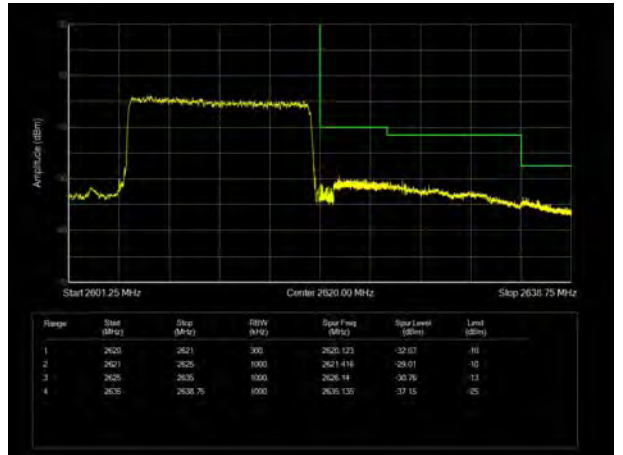




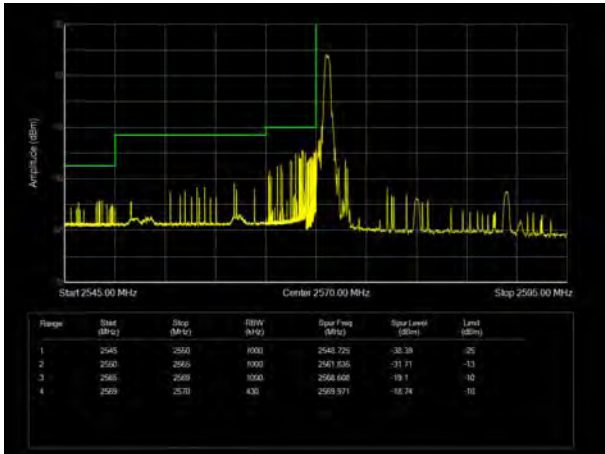
LTE Band 38 64QAM 15MHz CH-Low, 100%RB



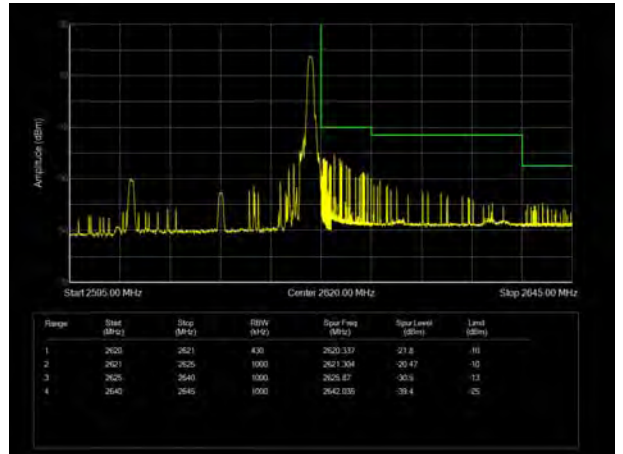
LTE Band 38 64QAM 15MHz CH-High, 100%RB



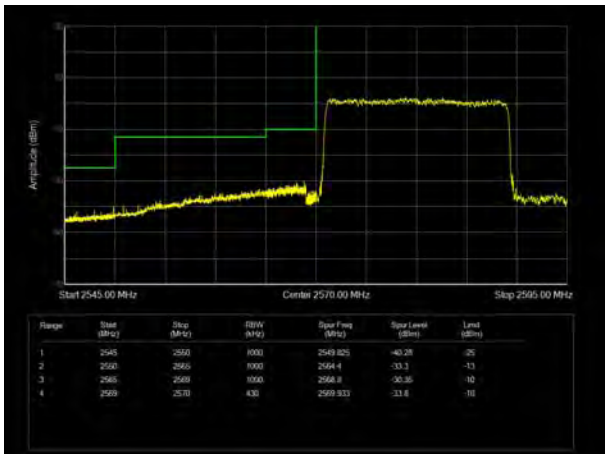
LTE Band 38 64QAM 20MHz CH-Low, 1 RB



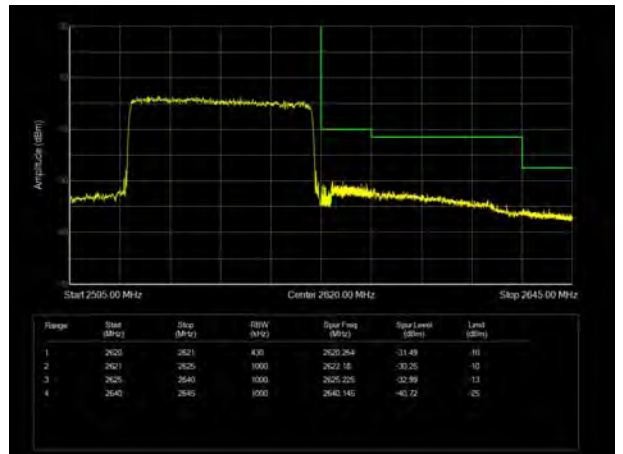
LTE Band 38 64QAM 20MHz CH-High, 1 RB



LTE Band 38 64QAM 20MHz CH-Low, 100%RB

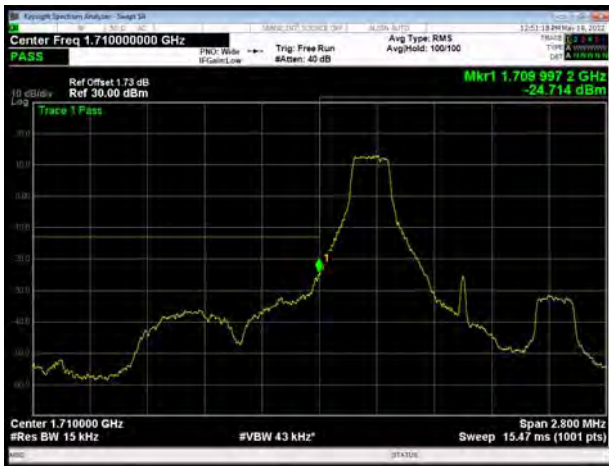


LTE Band 38 64QAM 20MHz CH-High, 100%RB

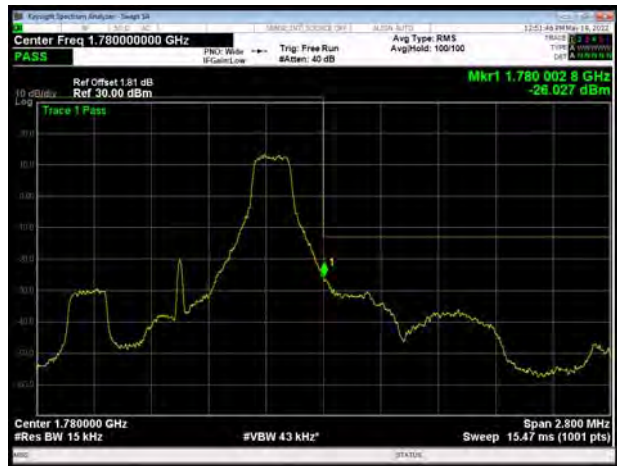




LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



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



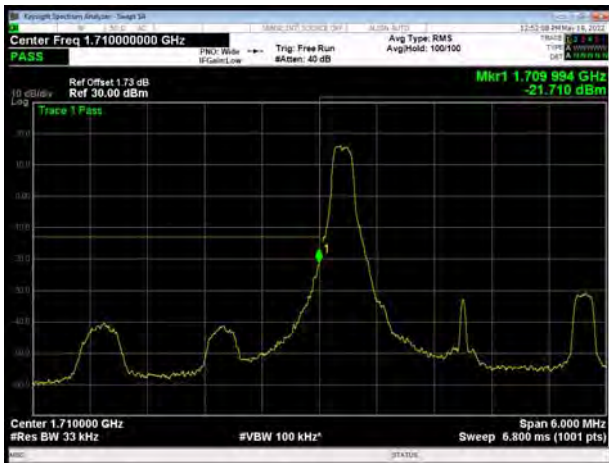
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



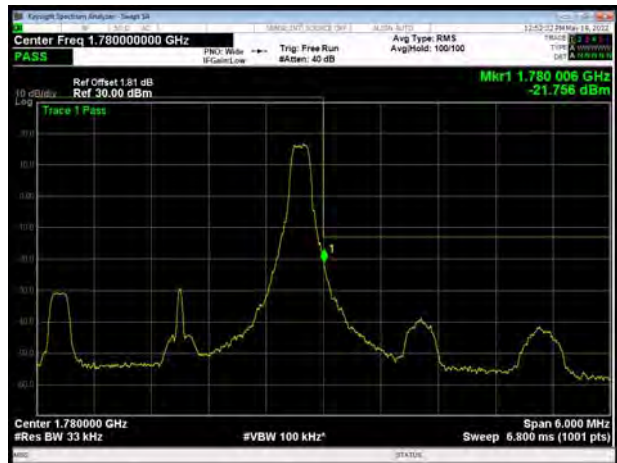
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



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

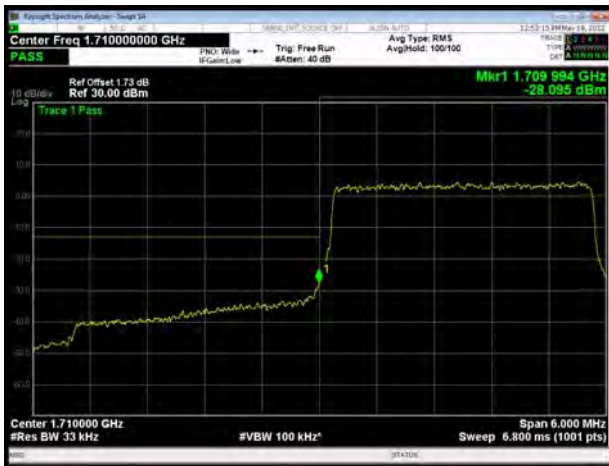


LTE Band 66 QPSK 3MHz CH-High, 1 RB

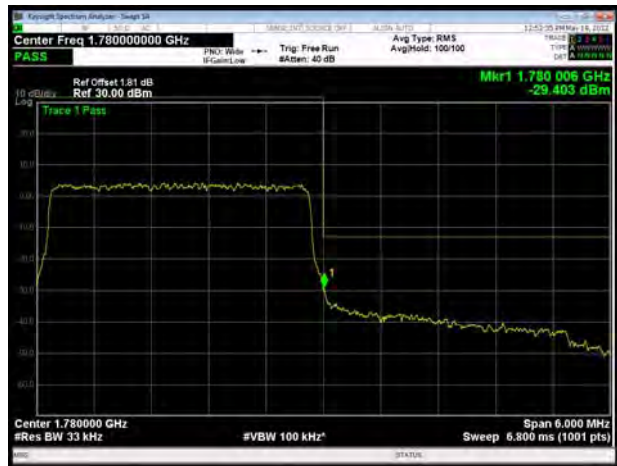




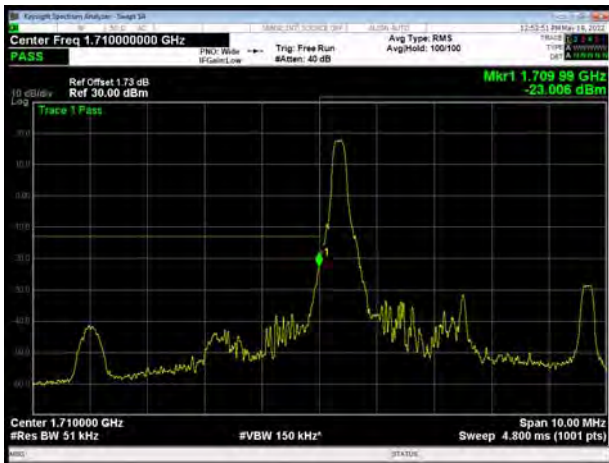
LTE Band 66 QPSK 3MHz CH-Low, 100%RB



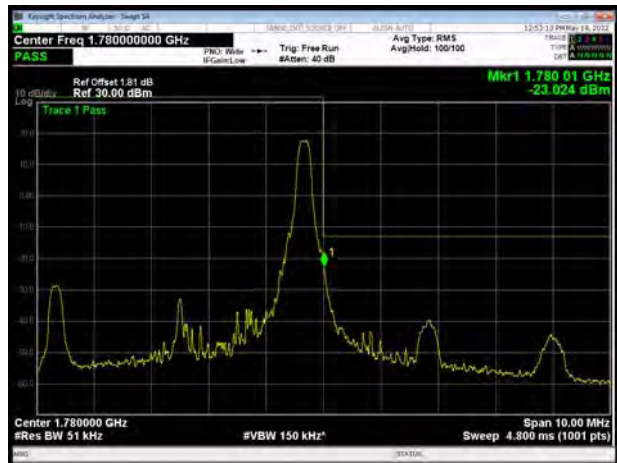
LTE Band 66 QPSK 3MHz CH-High, 100%RB



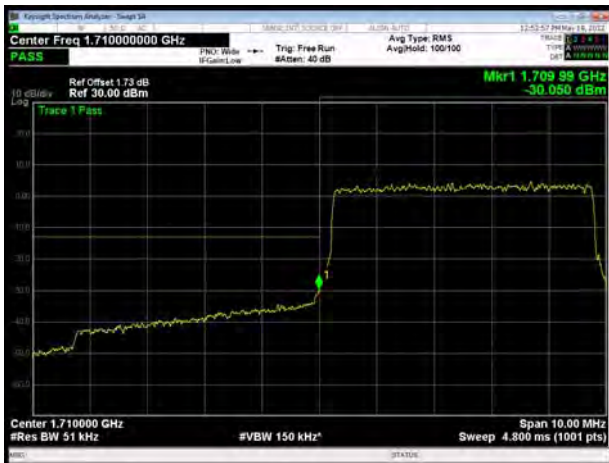
LTE Band 66 QPSK 5MHz CH-Low, 1 RB



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



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

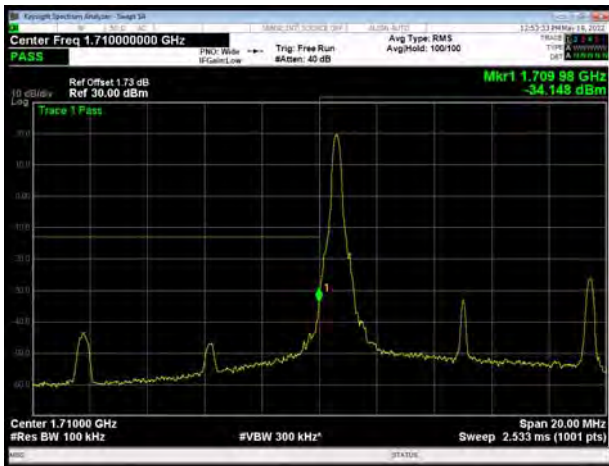


LTE Band 66 QPSK 5MHz CH-High, 100%RB

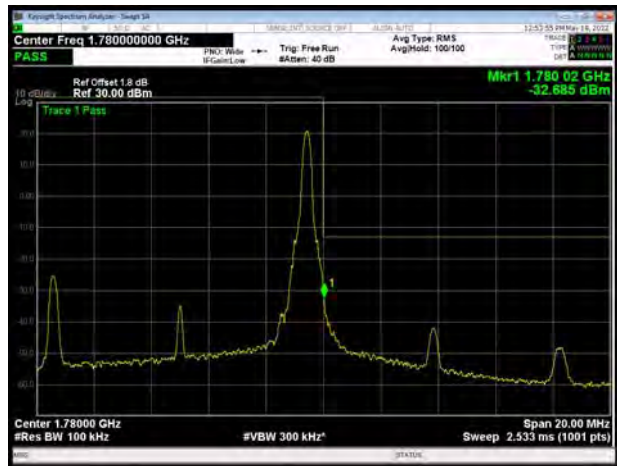




LTE Band 66 QPSK 10MHz CH-Low, 1 RB



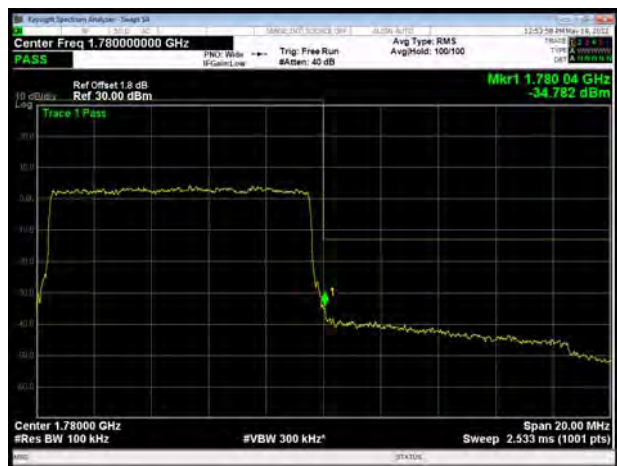
LTE Band 66 QPSK 10MHz CH-High, 1 RB



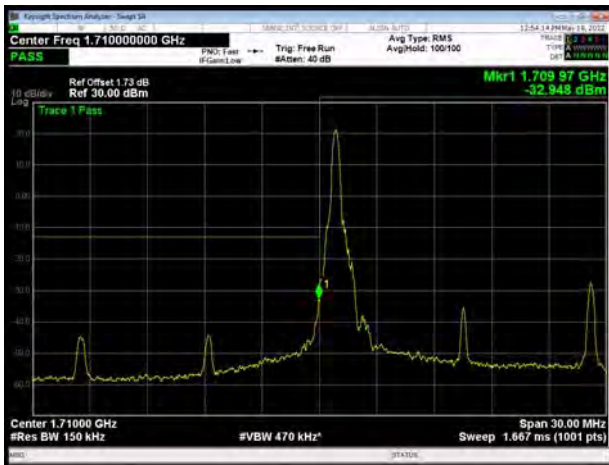
LTE Band 66 QPSK 10MHz CH-Low, 100%RB



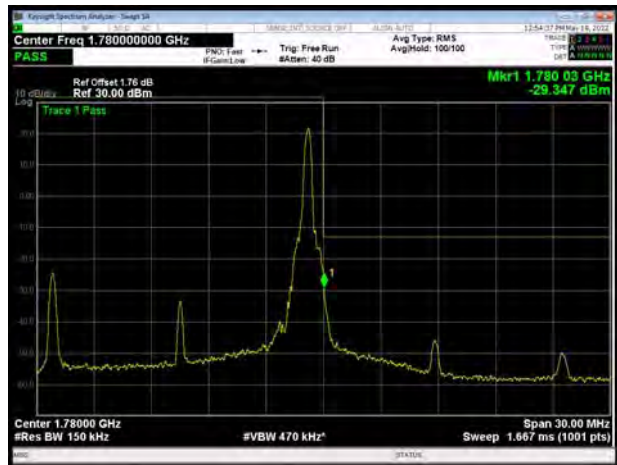
LTE Band 66 QPSK 10MHz CH-High, 100%RB



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

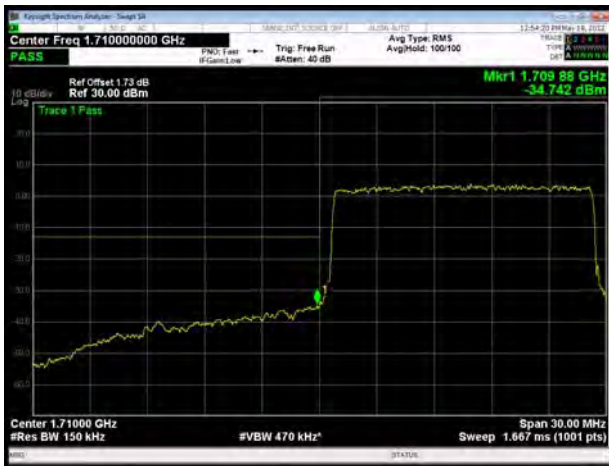


LTE Band 66 QPSK 15MHz CH-High, 1 RB





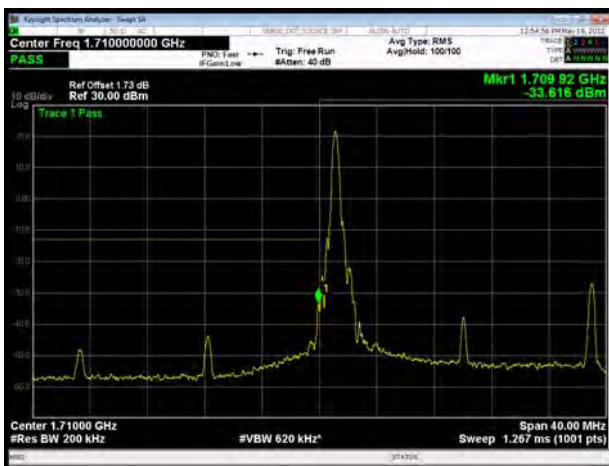
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



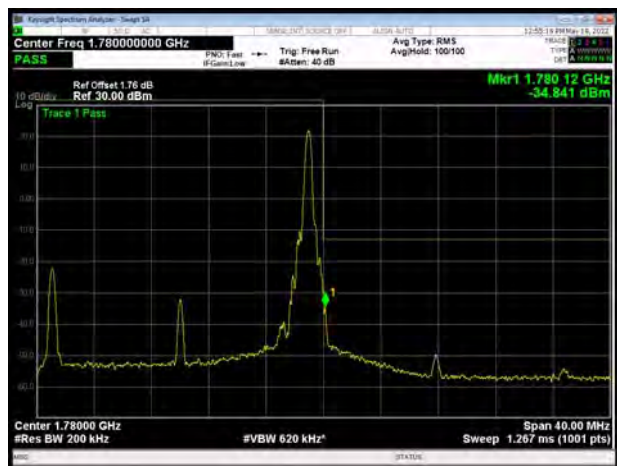
LTE Band 66 QPSK 15MHz CH-High, 100%RB



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

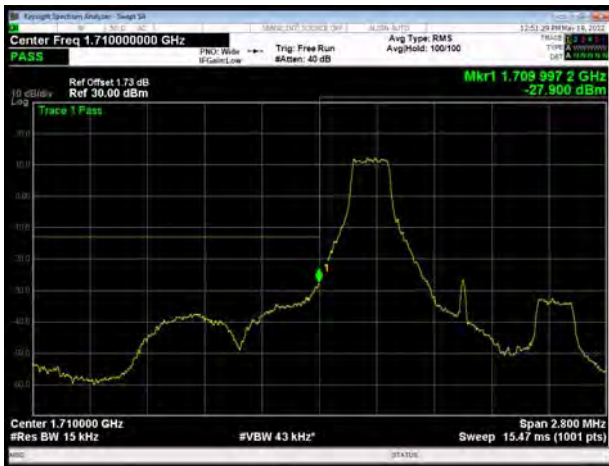


LTE Band 66 QPSK 20MHz CH-High, 100%RB





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



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



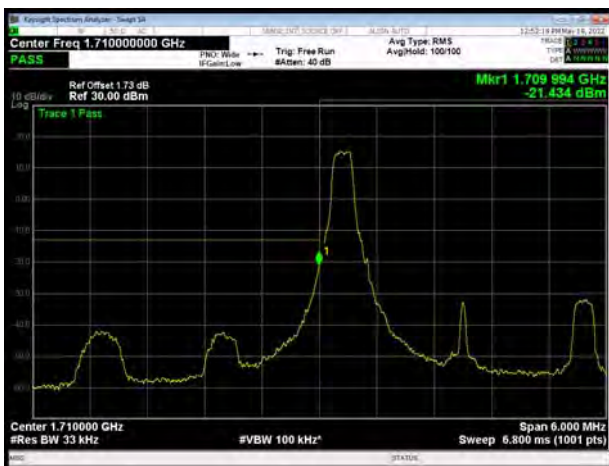
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



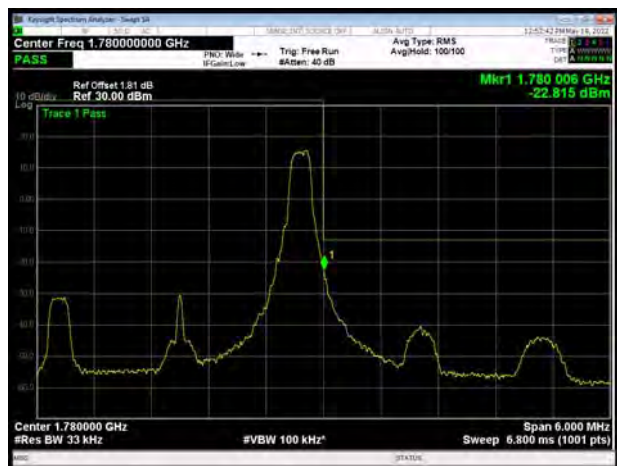
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



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

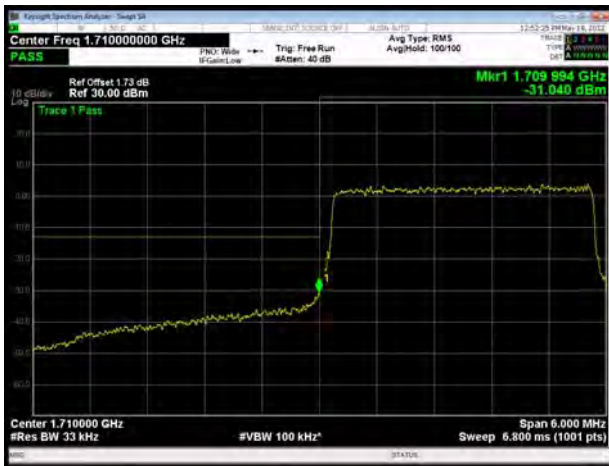


LTE Band 66 16QAM 3MHz CH-High, 1 RB

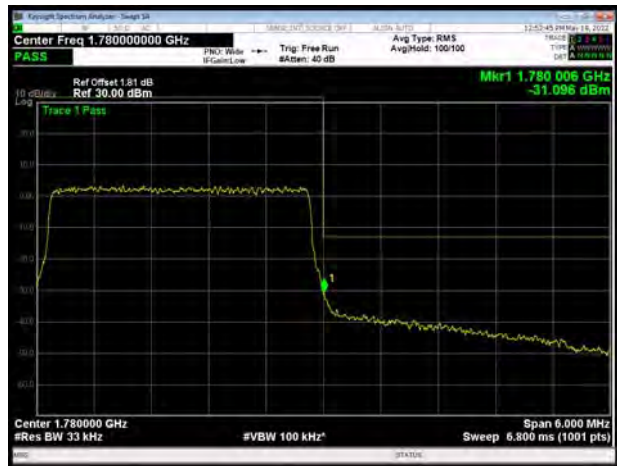




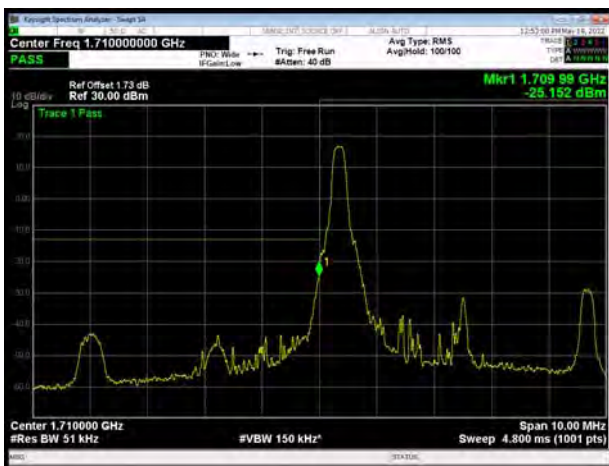
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



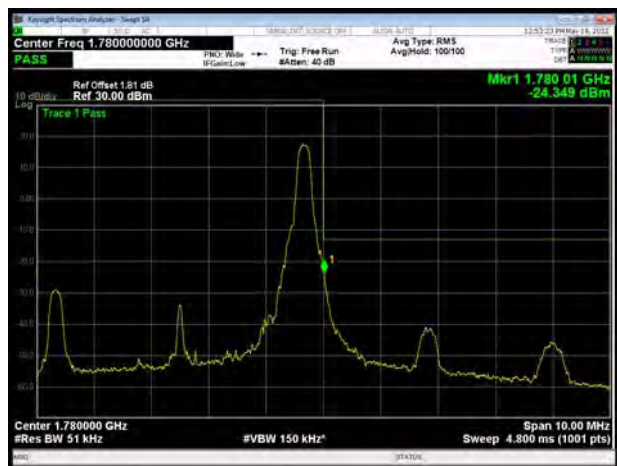
LTE Band 66 16QAM 3MHz CH-High, 100%RB



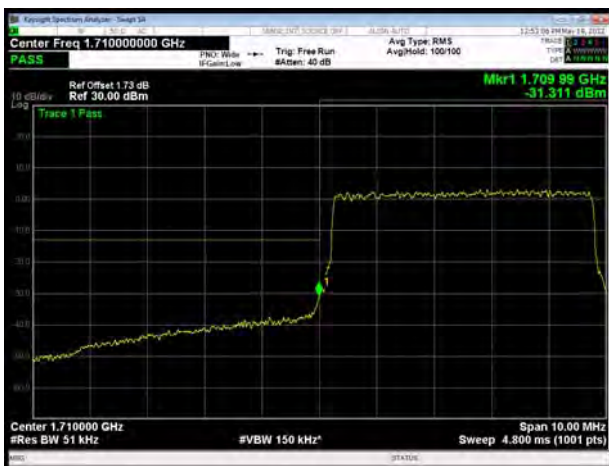
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



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



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

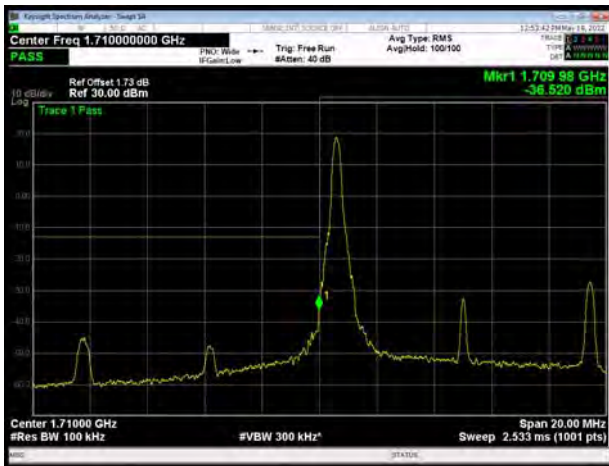


LTE Band 66 16QAM 5MHz CH-High, 100%RB

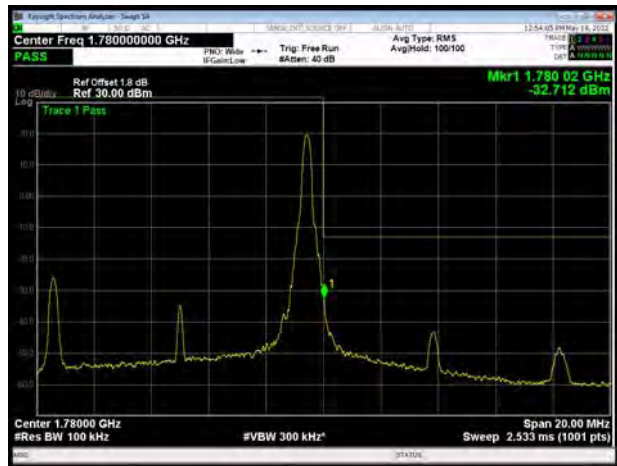




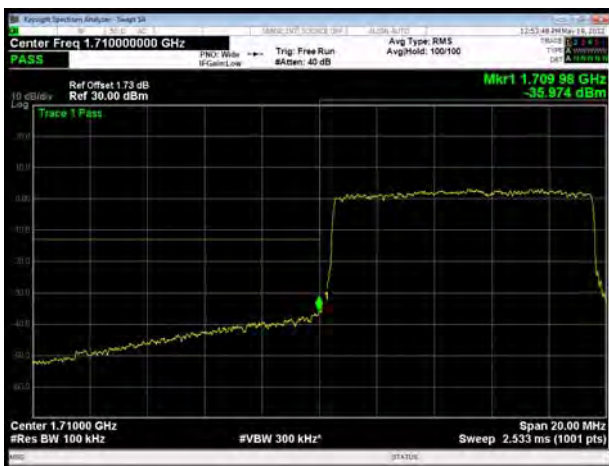
LTE Band 66 16QAM 10MHz CH-Low, 1 RB



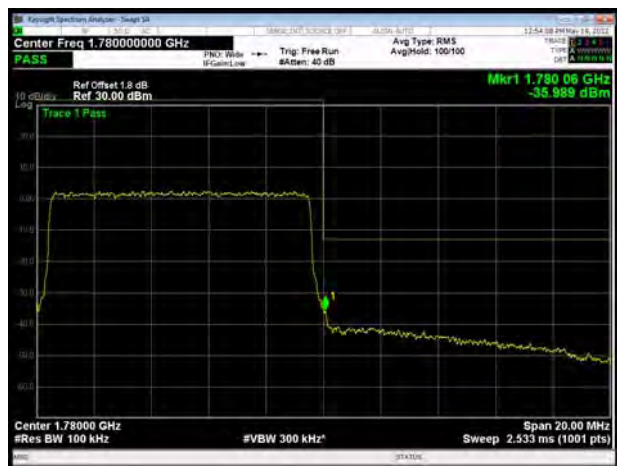
LTE Band 66 16QAM 10MHz CH-High, 1 RB



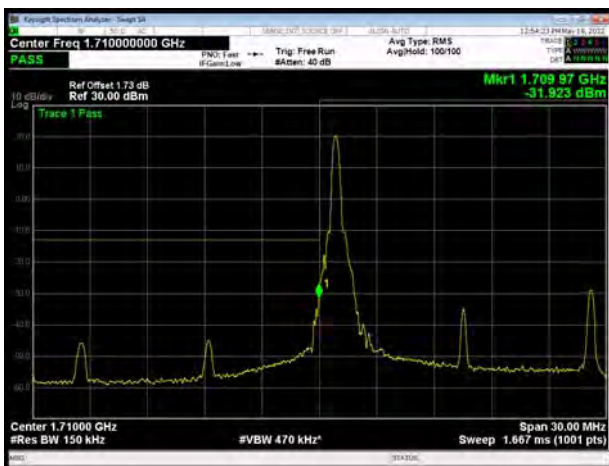
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



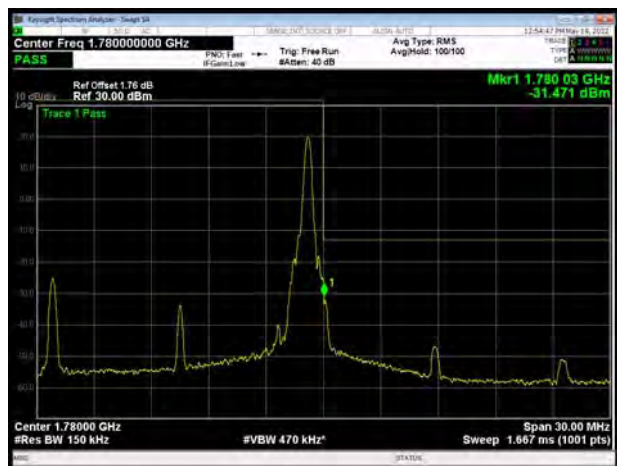
LTE Band 66 16QAM 10MHz CH-High, 100%RB



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



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





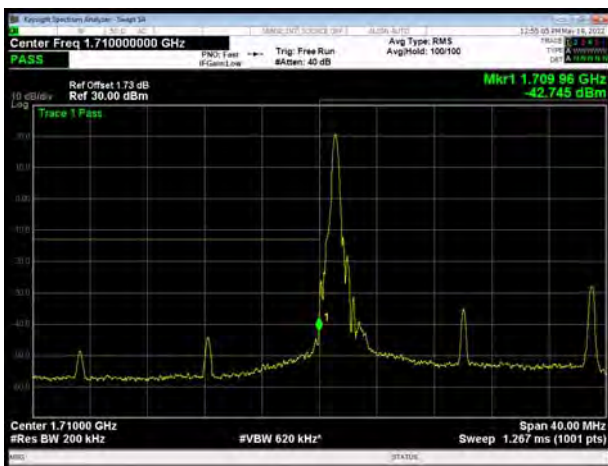
LTE Band 66 16QAM 15MHz CH-Low, 100%RB



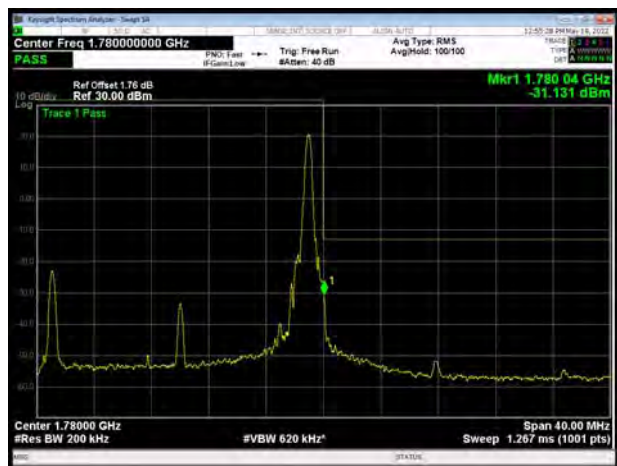
LTE Band 66 16QAM 15MHz CH-High, 100%RB



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

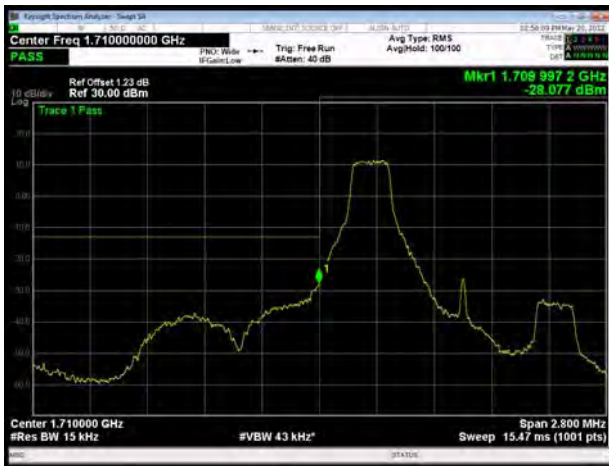


LTE Band 66 16QAM 20MHz CH-High, 100%RB

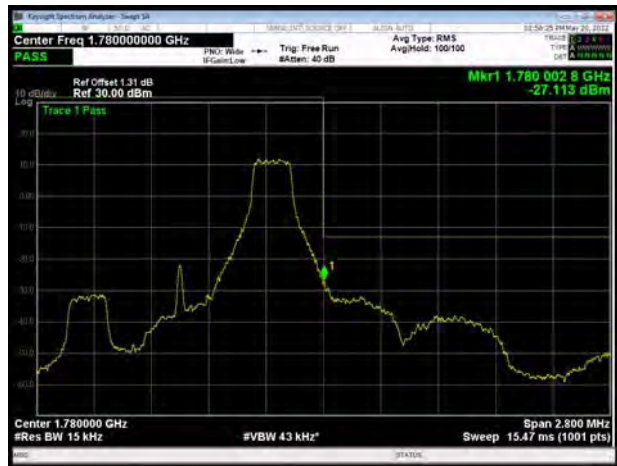




LTE Band 66 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 66 64QAM 1.4MHz CH-High, 1 RB



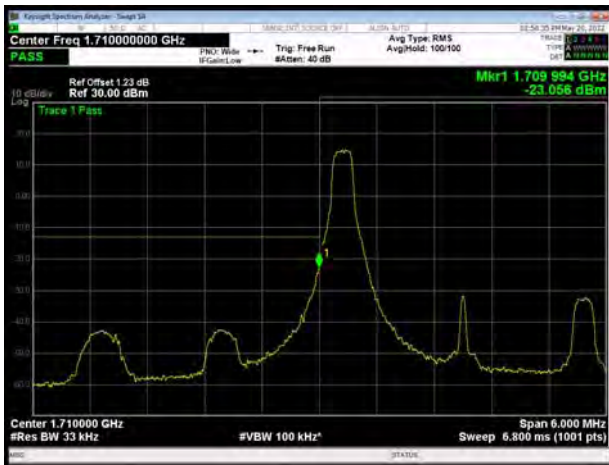
LTE Band 66 64QAM 1.4MHz CH-Low, 100%RB



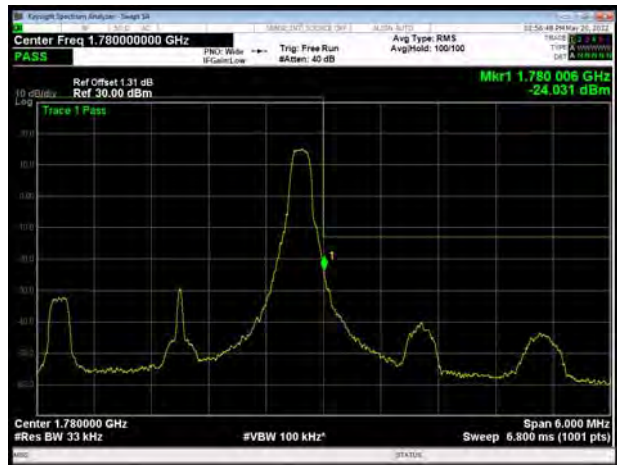
LTE Band 66 64QAM 1.4MHz CH-High, 100%RB



LTE Band 66 64QAM 3MHz CH-Low, 1 RB

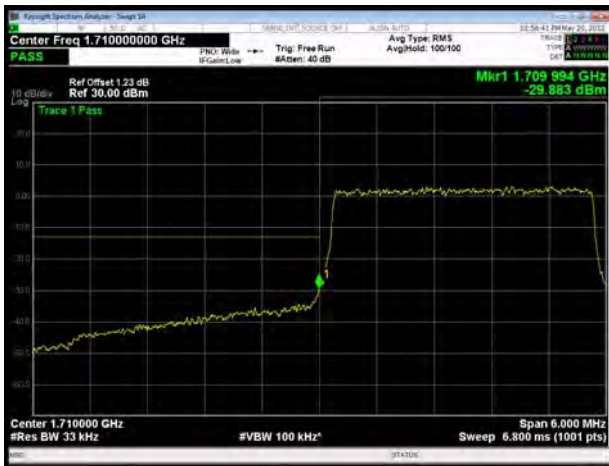


LTE Band 66 64QAM 3MHz CH-High, 1 RB

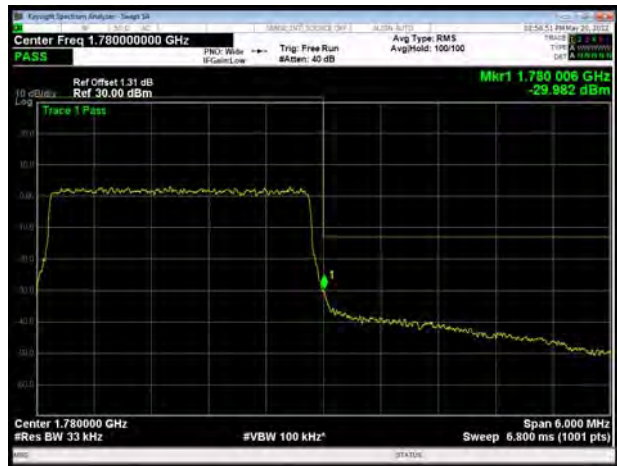




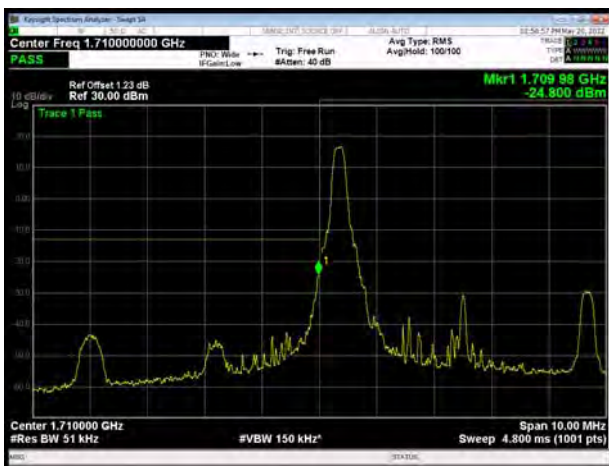
LTE Band 66 64QAM 3MHz CH-Low, 100%RB



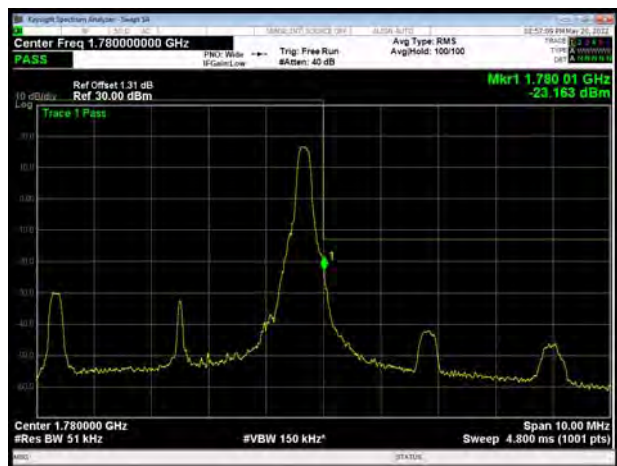
LTE Band 66 64QAM 3MHz CH-High, 100%RB



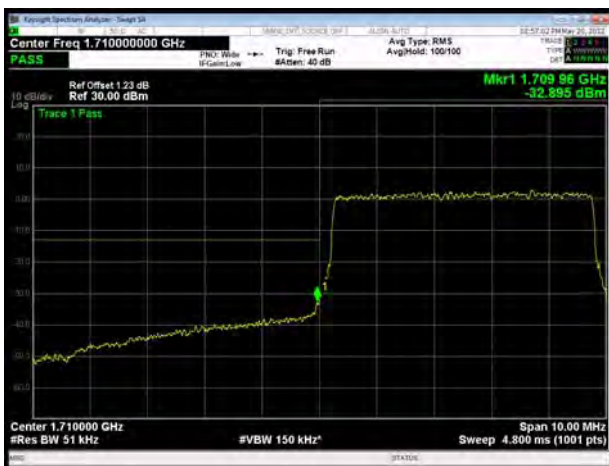
LTE Band 66 64QAM 5MHz CH-Low, 1 RB



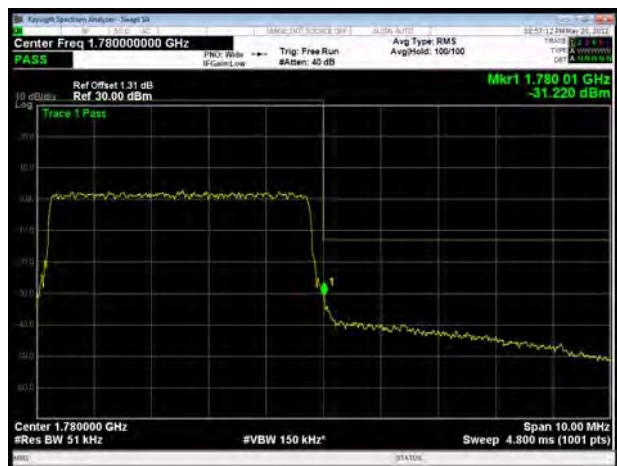
LTE Band 66 64QAM 5MHz CH-High, 1 RB



LTE Band 66 64QAM 5MHz CH-Low, 100%RB

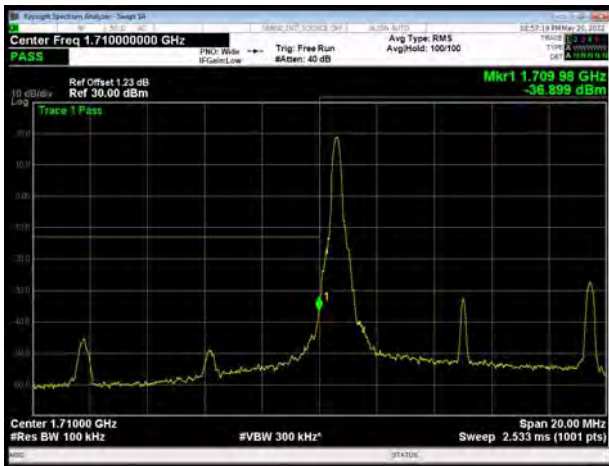


LTE Band 66 64QAM 5MHz CH-High, 100%RB

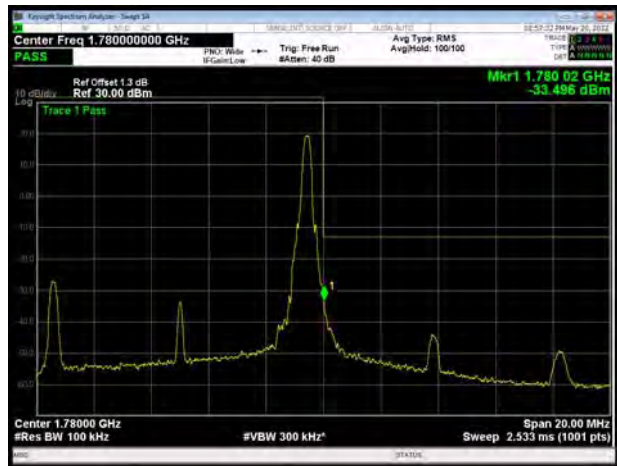




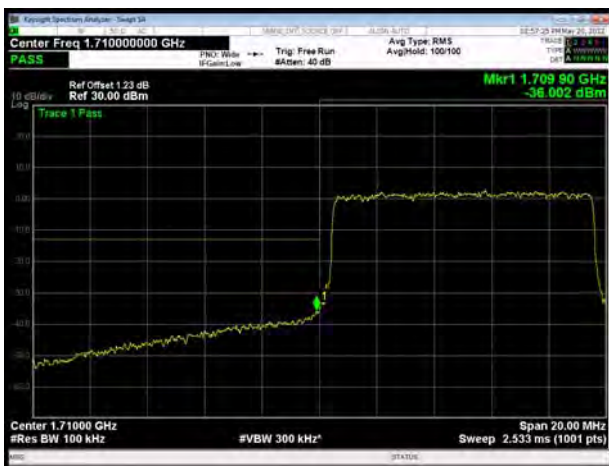
LTE Band 66 64QAM 10MHz CH-Low, 1 RB



LTE Band 66 64QAM 10MHz CH-High, 1 RB



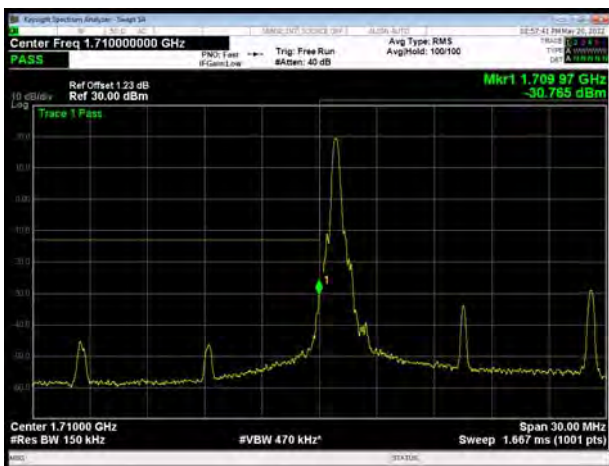
LTE Band 66 64QAM 10MHz CH-Low, 100%RB



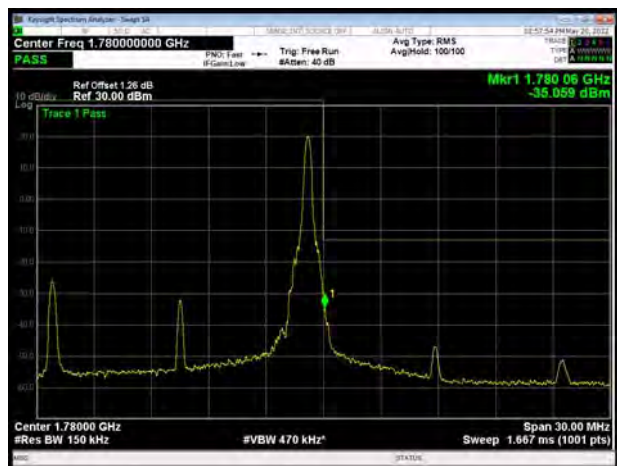
LTE Band 66 64QAM 10MHz CH-High, 100%RB



LTE Band 66 64QAM 15MHz CH-Low, 1 RB

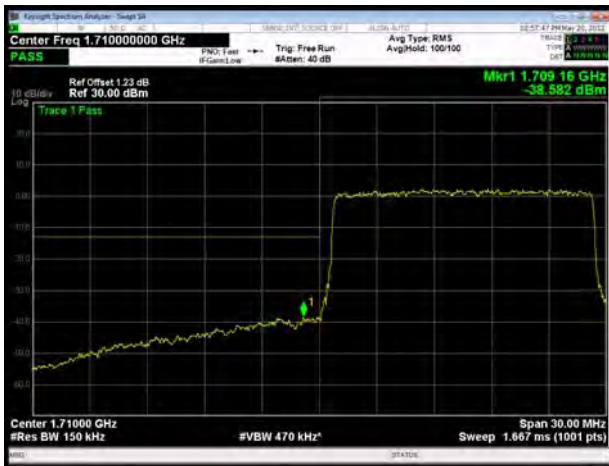


LTE Band 66 64QAM 15MHz CH-High, 1 RB

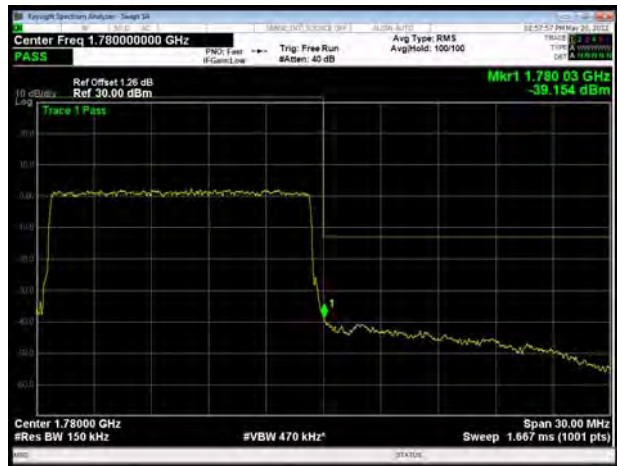




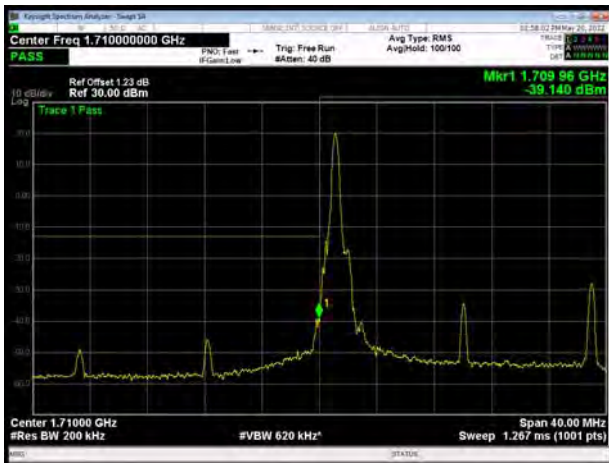
LTE Band 66 64QAM 15MHz CH-Low, 100%RB



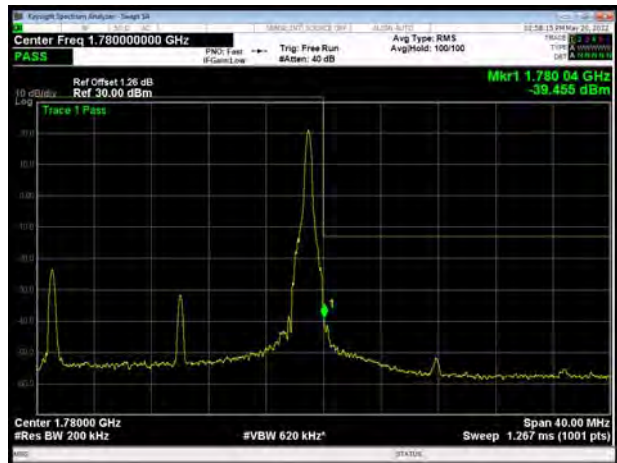
LTE Band 66 64QAM 15MHz CH-High, 100%RB



LTE Band 66 64QAM 20MHz CH-Low, 1 RB



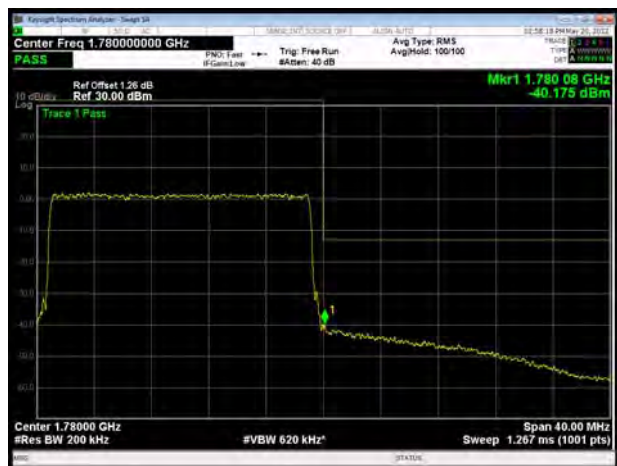
LTE Band 66 64QAM 20MHz CH-High, 1 RB



LTE Band 66 64QAM 20MHz CH-Low, 100%RB



LTE Band 66 64QAM 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	23.72	20.85	2.87	≤13	PASS
	1413	1732.6	23.69	20.69	3.00	≤13	PASS
	1513	1752.6	23.84	20.82	3.02	≤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	26.38	21.83	4.55	≤13	PASS
		20175	1732.5	27.04	21.85	5.19	≤13	PASS
		20393	1754.3	26.83	21.72	5.11	≤13	PASS
	3	19965	1711.5	26.50	21.84	4.66	≤13	PASS
		20175	1732.5	27.10	21.92	5.18	≤13	PASS
		20385	1753.5	26.83	21.84	4.99	≤13	PASS
	5	19975	1712.5	26.59	21.91	4.68	≤13	PASS
		20175	1732.5	27.18	21.94	5.24	≤13	PASS
		20375	1752.5	26.84	21.91	4.93	≤13	PASS
	10	20000	1715	26.73	21.91	4.82	≤13	PASS
		20175	1732.5	27.13	21.93	5.20	≤13	PASS
		20350	1750	26.84	21.92	4.92	≤13	PASS
	15	20025	1717.5	27.20	21.83	5.37	≤13	PASS
		20175	1732.5	27.49	21.87	5.62	≤13	PASS
		20325	1747.5	27.13	21.73	5.40	≤13	PASS
	20	20050	1720	27.11	21.92	5.19	≤13	PASS
		20175	1732.5	27.23	21.73	5.50	≤13	PASS
		20300	1745	27.06	21.76	5.30	≤13	PASS
16QAM	1.4	19957	1710.7	26.24	20.79	5.45	≤13	PASS
		20175	1732.5	26.90	20.89	6.01	≤13	PASS
		20393	1754.3	26.73	20.83	5.90	≤13	PASS
	3	19965	1711.5	26.38	20.84	5.54	≤13	PASS
		20175	1732.5	26.96	20.91	6.05	≤13	PASS
		20385	1753.5	26.67	20.84	5.83	≤13	PASS
	5	19975	1712.5	26.39	20.87	5.52	≤13	PASS
		20175	1732.5	26.97	20.93	6.04	≤13	PASS
		20375	1752.5	26.70	20.95	5.75	≤13	PASS
	10	20000	1715	26.56	20.91	5.65	≤13	PASS



		20175	1732.5	27.03	20.98	6.05	≤13	PASS
		20350	1750	26.70	20.91	5.79	≤13	PASS
		20025	1717.5	26.83	20.84	5.99	≤13	PASS
	15	20175	1732.5	27.09	20.85	6.24	≤13	PASS
		20325	1747.5	26.76	20.74	6.02	≤13	PASS
		20050	1720	26.89	20.86	6.03	≤13	PASS
	20	20175	1732.5	26.99	20.73	6.26	≤13	PASS
		20300	1745	26.87	20.81	6.06	≤13	PASS
		20025	1717.5	26.83	20.84	5.99	≤13	PASS
64QAM	1.4	19957	1710.7	25.69	20.34	5.35	≤13	PASS
		20175	1732.5	26.37	20.39	5.98	≤13	PASS
		20393	1754.3	26.15	20.26	5.89	≤13	PASS
	3	19965	1711.5	25.82	20.37	5.45	≤13	PASS
		20175	1732.5	26.41	20.45	5.96	≤13	PASS
		20385	1753.5	26.20	20.34	5.86	≤13	PASS
	5	19975	1712.5	25.82	20.35	5.47	≤13	PASS
		20175	1732.5	26.41	20.45	5.96	≤13	PASS
		20375	1752.5	26.17	20.40	5.77	≤13	PASS
	10	20000	1715	26.01	20.41	5.60	≤13	PASS
		20175	1732.5	26.46	20.43	6.03	≤13	PASS
		20350	1750	26.13	20.38	5.75	≤13	PASS
	15	20025	1717.5	26.25	20.30	5.95	≤13	PASS
		20175	1732.5	26.55	20.35	6.20	≤13	PASS
		20325	1747.5	26.23	20.25	5.98	≤13	PASS
	20	20050	1720	26.36	20.35	6.01	≤13	PASS
		20175	1732.5	26.44	20.20	6.24	≤13	PASS
		20300	1745	26.29	20.27	6.02	≤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	26.61	21.05	5.56	≤13	PASS
		21100	2535	26.43	20.82	5.61	≤13	PASS
		21425	2567.5	26.65	20.92	5.73	≤13	PASS
	10	20800	2505	26.52	21.02	5.50	≤13	PASS
		21100	2535	26.27	20.83	5.44	≤13	PASS
		21400	2565	26.45	20.90	5.55	≤13	PASS
	15	20825	2507.5	26.92	21.02	5.90	≤13	PASS
		21100	2535	26.56	20.77	5.79	≤13	PASS



	20	21375	2562.5	26.58	20.81	5.77	≤13	PASS
		20850	2510	26.46	20.96	5.50	≤13	PASS
		21100	2535	26.26	20.74	5.52	≤13	PASS
		21350	2560	26.27	20.74	5.53	≤13	PASS
16QAM	5	20775	2502.5	27.19	21.09	6.10	≤13	PASS
		21100	2535	26.93	20.83	6.10	≤13	PASS
		21425	2567.5	27.14	20.89	6.25	≤13	PASS
	10	20800	2505	27.10	21.03	6.07	≤13	PASS
		21100	2535	26.93	20.87	6.06	≤13	PASS
		21400	2565	27.15	20.95	6.20	≤13	PASS
	15	20825	2507.5	27.23	20.97	6.26	≤13	PASS
		21100	2535	26.98	20.80	6.18	≤13	PASS
		21375	2562.5	27.07	20.77	6.30	≤13	PASS
	20	20850	2510	27.19	20.94	6.25	≤13	PASS
		21100	2535	26.85	20.67	6.18	≤13	PASS
		21350	2560	27.02	20.72	6.30	≤13	PASS
64QAM	5	20775	2502.5	26.76	20.71	6.05	≤13	PASS
		21100	2535	26.61	20.43	6.18	≤13	PASS
		21425	2567.5	26.70	20.48	6.22	≤13	PASS
	10	20800	2505	26.66	20.61	6.05	≤13	PASS
		21100	2535	26.56	20.43	6.13	≤13	PASS
		21400	2565	26.67	20.49	6.18	≤13	PASS
	15	20825	2507.5	26.72	20.52	6.20	≤13	PASS
		21100	2535	26.60	20.33	6.27	≤13	PASS
		21375	2562.5	26.58	20.34	6.24	≤13	PASS
	20	20850	2510	26.71	20.48	6.23	≤13	PASS
		21100	2535	26.52	20.28	6.24	≤13	PASS
		21350	2560	26.54	20.30	6.24	≤13	PASS

LTE Band 13								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	23205	779.5	26.90	21.90	5.00	≤13	PASS
		23230	782	26.90	21.88	5.02	≤13	PASS



	10	23255	784.5	26.61	22.00	4.61	≤13	PASS
		23230	782	26.98	22.08	4.90	≤13	PASS
16QAM	5	23205	779.5	26.75	20.93	5.82	≤13	PASS
		23230	782	26.71	20.89	5.82	≤13	PASS
		23255	784.5	26.46	20.98	5.48	≤13	PASS
	10	23230	782	26.80	21.07	5.73	≤13	PASS
64QAM	5	23205	779.5	26.20	20.39	5.81	≤13	PASS
		23230	782	26.15	20.34	5.81	≤13	PASS
		23255	784.5	25.92	20.45	5.47	≤13	PASS
	10	23230	782	26.29	20.54	5.75	≤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	27.03	17.61	9.42	≤13	PASS
		38000	2595	26.97	17.52	9.45	≤13	PASS
		38225	2617.5	27.07	19.06	8.01	≤13	PASS
	10	37800	2575	27.07	19.17	7.90	≤13	PASS
		38000	2595	26.83	17.46	9.37	≤13	PASS
		38200	2615	26.87	17.59	9.28	≤13	PASS
	15	37825	2577.5	27.35	18.14	9.21	≤13	PASS
		38000	2595	27.30	18.23	9.07	≤13	PASS
		38175	2612.5	27.43	19.28	8.15	≤13	PASS
	20	37850	2580	27.16	18.16	9.00	≤13	PASS
		38000	2595	27.14	18.26	8.88	≤13	PASS
		38150	2610	27.09	16.60	10.49	≤13	PASS
16QAM	5	37775	2572.5	26.70	16.79	9.91	≤13	PASS
		38000	2595	26.75	17.44	9.31	≤13	PASS
		38225	2617.5	26.82	17.43	9.39	≤13	PASS
	10	37800	2575	26.82	17.52	9.30	≤13	PASS
		38000	2595	26.62	16.84	9.78	≤13	PASS
		38200	2615	26.56	15.73	10.83	≤13	PASS
	15	37825	2577.5	26.84	15.85	10.99	≤13	PASS
		38000	2595	26.87	16.00	10.87	≤13	PASS
		38175	2612.5	27.02	16.70	10.32	≤13	PASS



64QAM	20	37850	2580	26.66	14.77	11.89	≤13	PASS	
		38000	2595	26.93	17.81	9.12	≤13	PASS	
		38150	2610	26.85	16.30	10.55	≤13	PASS	
	64QAM	5	37775	2572.5	26.36	17.04	9.32	≤13	PASS
			38000	2595	26.61	18.63	7.98	≤13	PASS
			38225	2617.5	26.56	16.84	9.72	≤13	PASS
		10	37800	2575	26.32	16.28	10.04	≤13	PASS
			38000	2595	26.31	17.17	9.14	≤13	PASS
			38200	2615	26.57	16.87	9.70	≤13	PASS
15		37825	2577.5	26.55	17.35	9.20	≤13	PASS	
		38000	2595	26.59	17.11	9.48	≤13	PASS	
		38175	2612.5	26.60	17.07	9.53	≤13	PASS	
20	37850	2580	26.50	17.33	9.17	≤13	PASS		
	38000	2595	26.54	17.70	8.84	≤13	PASS		
	38150	2610	26.52	17.12	9.40	≤13	PASS		

LTE Band 66								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	26.42	21.85	4.57	≤13	PASS
		132322	1745	26.67	21.70	4.97	≤13	PASS
		132665	1779.3	26.87	21.86	5.01	≤13	PASS
	3	131987	1711.5	26.59	21.94	4.65	≤13	PASS
		132322	1745	26.71	21.77	4.94	≤13	PASS
		132657	1778.5	26.87	21.86	5.01	≤13	PASS
	5	131997	1712.5	26.56	21.87	4.69	≤13	PASS
		132322	1745	26.84	21.94	4.90	≤13	PASS
		132647	1777.5	26.95	21.93	5.02	≤13	PASS
	10	132022	1715	26.64	21.93	4.71	≤13	PASS
		132322	1745	26.72	21.81	4.91	≤13	PASS
		132622	1775	27.06	21.99	5.07	≤13	PASS
	15	132047	1717.5	27.11	21.82	5.29	≤13	PASS
		132322	1745	27.14	21.84	5.30	≤13	PASS
		132597	1772.5	27.39	21.84	5.55	≤13	PASS
	20	132072	1720	26.95	21.74	5.21	≤13	PASS
		132322	1745	27.02	21.82	5.20	≤13	PASS
		132572	1770	27.14	21.70	5.44	≤13	PASS



16QAM	1.4	131979	1710.7	26.27	20.89	5.38	≤13	PASS
		132322	1745	26.63	20.85	5.78	≤13	PASS
		132665	1779.3	26.69	20.86	5.83	≤13	PASS
	3	131987	1711.5	26.41	20.95	5.46	≤13	PASS
		132322	1745	26.56	20.79	5.77	≤13	PASS
		132657	1778.5	26.79	20.93	5.86	≤13	PASS
	5	131997	1712.5	26.34	20.81	5.53	≤13	PASS
		132322	1745	26.55	20.84	5.71	≤13	PASS
		132647	1777.5	26.79	20.95	5.84	≤13	PASS
	10	132022	1715	26.45	20.90	5.55	≤13	PASS
		132322	1745	26.58	20.86	5.72	≤13	PASS
		132622	1775	26.78	20.84	5.94	≤13	PASS
	15	132047	1717.5	26.68	20.80	5.88	≤13	PASS
		132322	1745	26.68	20.71	5.97	≤13	PASS
		132597	1772.5	26.89	20.78	6.11	≤13	PASS
20	132072	1720	26.71	20.75	5.96	≤13	PASS	
	132322	1745	26.66	20.64	6.02	≤13	PASS	
	132572	1770	26.91	20.74	6.17	≤13	PASS	
64QAM	1.4	131979	1710.7	25.68	20.25	5.43	≤13	PASS
		132322	1745	25.98	20.34	5.64	≤13	PASS
		132665	1779.3	26.35	20.47	5.88	≤13	PASS
	3	131987	1711.5	25.86	20.46	5.40	≤13	PASS
		132322	1745	26.07	20.32	5.75	≤13	PASS
		132657	1778.5	26.24	20.47	5.77	≤13	PASS
	5	131997	1712.5	25.81	20.33	5.48	≤13	PASS
		132322	1745	26.00	20.34	5.66	≤13	PASS
		132647	1777.5	26.25	20.48	5.77	≤13	PASS
	10	132022	1715	25.94	20.42	5.52	≤13	PASS
		132322	1745	26.03	20.33	5.70	≤13	PASS
		132622	1775	26.27	20.37	5.90	≤13	PASS
	15	132047	1717.5	26.15	20.30	5.85	≤13	PASS
		132322	1745	26.11	20.20	5.91	≤13	PASS
		132597	1772.5	26.40	20.30	6.10	≤13	PASS
20	132072	1720	26.19	20.27	5.92	≤13	PASS	
	132322	1745	26.15	20.21	5.94	≤13	PASS	
	132572	1770	26.44	20.28	6.16	≤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°C)	Normal	9.88	9.71	0.00570	0.00561	PASS
Extreme (35°C)		8.51	11.54	0.00491	0.00666	PASS
Extreme (30°C)		17.60	14.84	0.01016	0.00856	PASS
Extreme (20°C)		10.51	15.22	0.00607	0.00879	PASS
Extreme (10°C)		12.60	14.16	0.00727	0.00817	PASS
Extreme (0°C)		4.29	4.06	0.00248	0.00234	PASS
25°C	LV	12.38	10.13	0.00714	0.00585	PASS
	HV	15.25	1.54	0.00880	0.00089	PASS

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	14.12	13.27	5.34	0.00815	0.00766	0.00308	PASS
Extreme (35°C)		16.48	8.37	16.40	0.00951	0.00483	0.00947	PASS
Extreme (30°C)		1.30	11.65	3.29	0.00075	0.00673	0.00190	PASS
Extreme (20°C)		13.14	8.93	3.13	0.00758	0.00515	0.00181	PASS
Extreme (10°C)		13.41	3.63	16.50	0.00774	0.00209	0.00952	PASS
Extreme (0°C)		15.50	1.71	4.96	0.00895	0.00099	0.00286	PASS
25°C	LV	1.05	15.43	13.51	0.00061	0.00891	0.00780	PASS
	HV	9.36	11.26	1.61	0.00540	0.00650	0.00093	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.39	14.34	3.37	0.00311	0.00828	0.00195	PASS
Extreme (35°C)		3.15	10.06	17.07	0.00182	0.00581	0.00985	PASS
Extreme (30°C)		11.67	4.69	5.35	0.00673	0.00271	0.00309	PASS
Extreme (20°C)		6.72	4.44	3.29	0.00388	0.00256	0.00190	PASS
Extreme (10°C)		8.02	3.99	15.05	0.00463	0.00230	0.00869	PASS
Extreme (0°C)		16.84	16.01	5.62	0.00972	0.00924	0.00324	PASS
25°C	LV	14.58	14.18	4.55	0.00842	0.00818	0.00262	PASS
	HV	10.91	5.41	8.51	0.00630	0.00312	0.00491	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.41	14.99	3.62	0.00428	0.00865	0.00209	PASS
Extreme (35°C)		17.58	11.48	5.21	0.01015	0.00663	0.00301	PASS
Extreme (30°C)		10.12	17.77	10.69	0.00584	0.01026	0.00617	PASS
Extreme (20°C)		1.37	4.77	7.97	0.00079	0.00275	0.00460	PASS
Extreme (10°C)		6.18	2.40	17.64	0.00357	0.00138	0.01018	PASS
Extreme (0°C)		11.03	11.17	7.24	0.00636	0.00645	0.00418	PASS
25°C	LV	5.56	10.42	2.82	0.00321	0.00602	0.00163	PASS
	HV	6.80	10.97	3.27	0.00393	0.00633	0.00189	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.74	17.51	8.62	0.01024	0.01011	0.00498	PASS
Extreme (35°C)		5.60	4.27	10.24	0.00323	0.00247	0.00591	PASS
Extreme (30°C)		9.56	11.49	16.03	0.00552	0.00663	0.00925	PASS
Extreme (20°C)		17.82	16.07	4.78	0.01029	0.00927	0.00276	PASS
Extreme (10°C)		9.86	13.40	3.46	0.00569	0.00773	0.00200	PASS
Extreme (0°C)		2.62	4.86	15.26	0.00151	0.00281	0.00881	PASS
25°C	LV	11.61	15.19	8.53	0.00670	0.00877	0.00492	PASS
	HV	3.00	13.37	17.61	0.00173	0.00772	0.01017	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.79	3.87	16.24	0.00969	0.00223	0.00937	PASS
Extreme (35°C)		11.10	4.87	16.29	0.00641	0.00281	0.00940	PASS
Extreme (30°C)		16.84	8.32	14.14	0.00972	0.00480	0.00816	PASS
Extreme (20°C)		4.36	9.30	5.61	0.00252	0.00537	0.00324	PASS
Extreme (10°C)		4.63	7.04	13.68	0.00267	0.00406	0.00790	PASS
Extreme (0°C)		4.13	7.03	7.06	0.00239	0.00406	0.00408	PASS
25°C	LV	15.47	17.04	6.22	0.00893	0.00984	0.00359	PASS
	HV	4.93	6.76	10.64	0.00284	0.00390	0.00614	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.07	2.14	4.50	0.00697	0.00123	0.00259	PASS
Extreme (35°C)		6.16	11.62	14.28	0.00356	0.00671	0.00824	PASS
Extreme (30°C)		4.15	11.08	15.80	0.00240	0.00639	0.00912	PASS



Extreme (20°C)		4.62	17.92	14.29	0.00266	0.01035	0.00825	PASS
Extreme (10°C)		9.93	7.60	4.23	0.00573	0.00439	0.00244	PASS
Extreme (0°C)		7.45	3.58	3.21	0.00430	0.00207	0.00185	PASS
25°C	LV	3.04	3.77	16.12	0.00175	0.00217	0.00931	PASS
	HV	11.00	8.50	14.03	0.00635	0.00491	0.00810	PASS

LTE Band 7								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	7.89	3.66	5.98	0.00311	0.00145	0.00236	PASS
Extreme (35°C)		10.27	13.55	10.72	0.00405	0.00534	0.00423	PASS
Extreme (30°C)		15.57	8.16	7.41	0.00614	0.00322	0.00292	PASS
Extreme (20°C)		14.81	10.04	4.99	0.00584	0.00396	0.00197	PASS
Extreme (10°C)		11.58	6.55	6.33	0.00457	0.00258	0.00250	PASS
Extreme (0°C)		6.17	3.05	6.99	0.00243	0.00120	0.00276	PASS
25°C	LV	11.50	16.93	3.79	0.00454	0.00668	0.00150	PASS
	HV	16.81	1.00	12.09	0.00663	0.00040	0.00477	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.79	3.90	12.51	0.00662	0.00154	0.00493	PASS
Extreme (35°C)		14.68	1.59	6.86	0.00579	0.00063	0.00271	PASS
Extreme (30°C)		16.27	17.48	14.28	0.00642	0.00689	0.00563	PASS
Extreme (20°C)		8.22	12.88	7.91	0.00324	0.00508	0.00312	PASS
Extreme (10°C)		12.64	10.71	6.38	0.00499	0.00423	0.00252	PASS
Extreme (0°C)		10.94	16.95	13.90	0.00432	0.00669	0.00548	PASS
25°C	LV	13.91	6.09	7.15	0.00549	0.00240	0.00282	PASS
	HV	8.50	4.93	9.87	0.00335	0.00195	0.00389	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.71	17.23	6.54	0.00383	0.00680	0.00258	PASS
Extreme (35°C)		8.67	7.52	4.66	0.00342	0.00297	0.00184	PASS
Extreme (30°C)		17.53	4.62	15.71	0.00691	0.00182	0.00620	PASS
Extreme (20°C)		7.27	3.41	15.07	0.00287	0.00134	0.00594	PASS
Extreme (10°C)		4.99	2.34	5.60	0.00197	0.00092	0.00221	PASS
Extreme (0°C)		11.75	10.83	15.87	0.00463	0.00427	0.00626	PASS
25°C	LV	2.06	10.63	6.06	0.00081	0.00419	0.00239	PASS
	HV	14.32	13.64	11.00	0.00565	0.00538	0.00434	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.95	6.06	13.73	0.00235	0.00239	0.00542	PASS
Extreme (35°C)		8.17	9.66	14.69	0.00322	0.00381	0.00580	PASS
Extreme (30°C)		13.17	9.32	7.07	0.00520	0.00368	0.00279	PASS
Extreme (20°C)		4.18	15.46	6.08	0.00165	0.00610	0.00240	PASS
Extreme (10°C)		11.26	12.20	4.54	0.00444	0.00481	0.00179	PASS
Extreme (0°C)		4.71	5.68	4.12	0.00186	0.00224	0.00162	PASS
25°C		LV	9.62	5.61	14.97	0.00380	0.00221	0.00590
	HV	3.57	17.86	14.75	0.00141	0.00705	0.00582	PASS

LTE Band 13								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.42	16.17	11.59	0.00566	0.02068	0.01482	PASS
Extreme (35°C)		4.02	3.97	3.07	0.00514	0.00507	0.00393	PASS
Extreme (30°C)		5.01	10.79	6.24	0.00640	0.01380	0.00798	PASS
Extreme (20°C)		16.83	13.12	17.67	0.02152	0.01678	0.02260	PASS
Extreme (10°C)		1.05	16.84	3.15	0.00134	0.02153	0.00403	PASS
Extreme (0°C)		17.92	9.19	9.64	0.02291	0.01175	0.01232	PASS
25°C		LV	9.00	4.11	3.92	0.01151	0.00525	0.00502
	HV	9.67	10.68	12.23	0.01237	0.01365	0.01563	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	9.86	12.64	14.32	0.01260	0.01616	0.01831	PASS
Extreme (35°C)		4.16	10.88	5.30	0.00532	0.01391	0.00678	PASS
Extreme (30°C)		13.75	17.16	13.16	0.01758	0.02194	0.01683	PASS
Extreme (20°C)		17.64	6.82	7.15	0.02256	0.00873	0.00914	PASS
Extreme (10°C)		13.92	7.98	2.31	0.01780	0.01020	0.00295	PASS
Extreme (0°C)		4.06	16.09	16.89	0.00520	0.02057	0.02159	PASS
25°C		LV	8.42	1.22	2.98	0.01077	0.00156	0.00381
	HV	1.95	7.67	1.00	0.00250	0.00981	0.00128	PASS



LTE Band 38								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	4.11	15.06	13.90	0.00158	0.00580	0.00536	PASS
Extreme (35°C)		7.67	2.45	17.88	0.00296	0.00094	0.00689	PASS
Extreme (30°C)		16.19	16.31	14.25	0.00624	0.00629	0.00549	PASS
Extreme (20°C)		9.42	9.95	4.63	0.00363	0.00383	0.00178	PASS
Extreme (10°C)		15.89	4.21	11.56	0.00612	0.00162	0.00445	PASS
Extreme (0°C)		6.97	2.30	5.94	0.00268	0.00089	0.00229	PASS
25°C	LV	2.74	7.72	6.91	0.00106	0.00298	0.00266	PASS
	HV	7.75	13.88	13.77	0.00299	0.00535	0.00531	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	15.70	17.47	3.83	0.00605	0.00673	0.00147	PASS
Extreme (35°C)		4.74	2.56	11.81	0.00183	0.00099	0.00455	PASS
Extreme (30°C)		8.93	13.99	4.98	0.00344	0.00539	0.00192	PASS
Extreme (20°C)		14.61	2.46	7.54	0.00563	0.00095	0.00290	PASS
Extreme (10°C)		10.10	6.97	14.07	0.00389	0.00269	0.00542	PASS
Extreme (0°C)		8.22	16.03	16.48	0.00317	0.00618	0.00635	PASS
25°C	LV	4.02	12.95	7.85	0.00155	0.00499	0.00303	PASS
	HV	15.71	17.77	8.53	0.00605	0.00685	0.00329	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	8.00	10.00	15.00	0.00308	0.00385	0.00578	PASS
Extreme (35°C)		3.00	3.00	5.00	0.00116	0.00116	0.00193	PASS
Extreme (30°C)		11.00	6.00	8.00	0.00424	0.00231	0.00308	PASS
Extreme (20°C)		17.00	9.00	16.00	0.00655	0.00347	0.00617	PASS
Extreme (10°C)		13.00	10.00	11.00	0.00501	0.00385	0.00424	PASS
Extreme (0°C)		11.00	14.00	12.00	0.00424	0.00539	0.00462	PASS
25°C	LV	9.00	9.00	16.00	0.00347	0.00347	0.00617	PASS
	HV	17.00	10.00	2.00	0.00655	0.00385	0.00077	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	5.00	15.00	17.00	0.00193	0.00578	0.00655	PASS



Extreme (35°C)		11.00	4.00	3.00	0.00424	0.00154	0.00116	PASS
Extreme (30°C)		10.00	4.00	8.00	0.00385	0.00154	0.00308	PASS
Extreme (20°C)		6.00	12.00	2.00	0.00231	0.00462	0.00077	PASS
Extreme (10°C)		2.00	16.00	16.00	0.00077	0.00617	0.00617	PASS
Extreme (0°C)		10.00	11.00	17.00	0.00385	0.00424	0.00655	PASS
25°C	LV	1.00	9.00	4.00	0.00039	0.00347	0.00154	PASS
	HV	4.00	4.00	11.00	0.00154	0.00154	0.00424	PASS

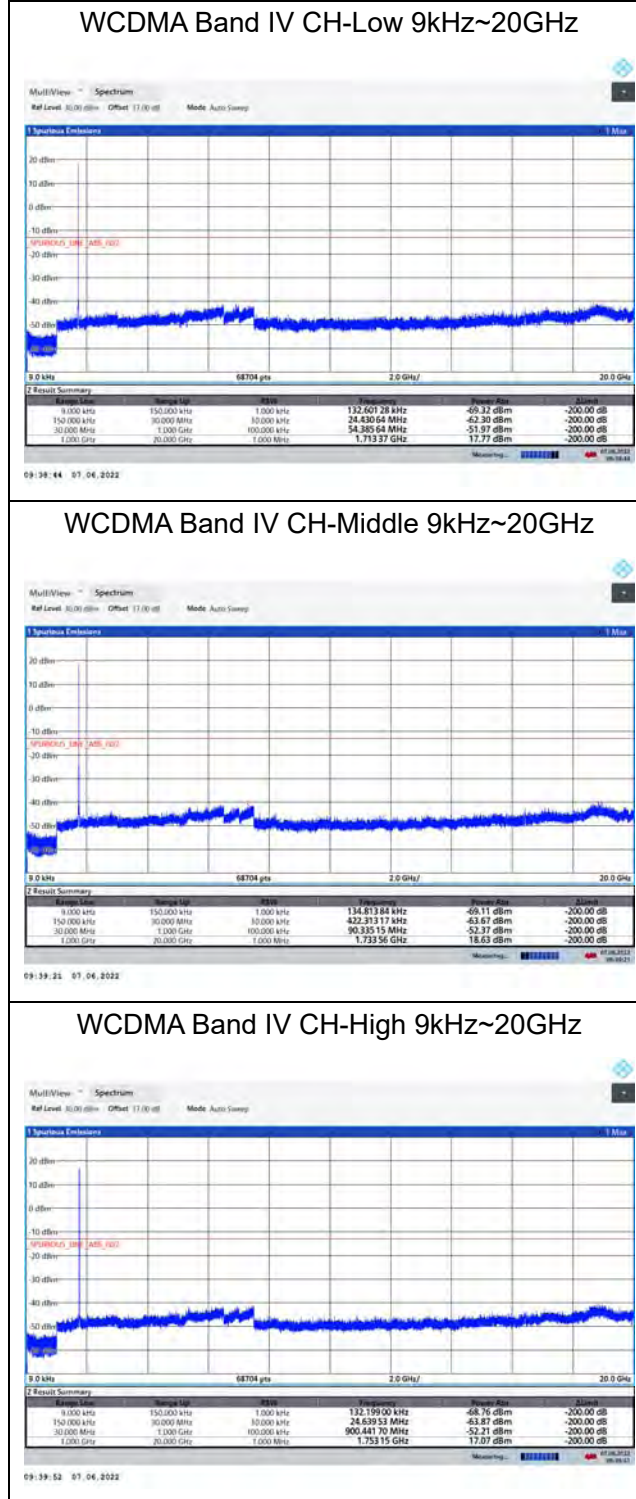
LTE Band 66								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.42	13.12	10.38	0.00139	0.00752	0.00595	PASS
Extreme (35°C)		11.54	8.79	4.28	0.00661	0.00504	0.00245	PASS
Extreme (30°C)		9.91	17.14	7.87	0.00568	0.00982	0.00451	PASS
Extreme (20°C)		11.64	11.65	15.72	0.00667	0.00668	0.00901	PASS
Extreme (10°C)		2.40	3.27	6.11	0.00138	0.00187	0.00350	PASS
Extreme (0°C)		14.94	6.06	7.63	0.00856	0.00347	0.00437	PASS
25°C	LV	10.40	16.58	10.21	0.00596	0.00950	0.00585	PASS
	HV	12.38	8.77	8.29	0.00709	0.00503	0.00475	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	12.99	13.22	6.51	0.00745	0.00758	0.00373	PASS
Extreme (35°C)		1.54	15.34	8.83	0.00088	0.00879	0.00506	PASS
Extreme (30°C)		7.97	4.64	10.59	0.00457	0.00266	0.00607	PASS
Extreme (20°C)		14.09	16.63	9.27	0.00808	0.00953	0.00531	PASS
Extreme (10°C)		11.53	5.53	16.71	0.00661	0.00317	0.00958	PASS
Extreme (0°C)		3.31	15.82	8.68	0.00190	0.00907	0.00498	PASS
25°C	LV	8.44	5.26	1.94	0.00484	0.00302	0.00111	PASS
	HV	16.40	2.05	4.07	0.00940	0.00118	0.00233	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	1.53	2.73	7.85	0.00087	0.00156	0.00450	PASS
Extreme (35°C)		3.43	7.43	8.62	0.00197	0.00426	0.00494	PASS
Extreme (30°C)		9.27	12.81	2.97	0.00531	0.00734	0.00170	PASS
Extreme (20°C)		7.55	1.65	10.34	0.00432	0.00095	0.00593	PASS
Extreme (10°C)		7.83	7.45	4.01	0.00449	0.00427	0.00230	PASS
Extreme (0°C)		16.80	7.81	14.23	0.00963	0.00448	0.00816	PASS



25°C	LV	16.40	16.60	2.83	0.00940	0.00951	0.00162	PASS
	HV	7.86	8.06	6.37	0.00450	0.00462	0.00365	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	16.04	9.30	15.79	0.00919	0.00533	0.00905	PASS
Extreme (35°C)		16.09	15.23	16.31	0.00922	0.00873	0.00934	PASS
Extreme (30°C)		7.18	7.04	5.39	0.00411	0.00403	0.00309	PASS
Extreme (20°C)		6.17	14.64	16.60	0.00353	0.00839	0.00951	PASS
Extreme (10°C)		3.01	1.50	3.46	0.00172	0.00086	0.00198	PASS
Extreme (0°C)		7.23	15.49	12.16	0.00414	0.00888	0.00697	PASS
25°C	LV	14.08	3.41	11.56	0.00807	0.00195	0.00662	PASS
	HV	11.84	2.11	7.12	0.00678	0.00121	0.00408	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	2.63	8.87	11.33	0.00151	0.00508	0.00649	PASS
Extreme (35°C)		10.10	9.75	7.59	0.00579	0.00559	0.00435	PASS
Extreme (30°C)		8.69	11.10	11.48	0.00498	0.00636	0.00658	PASS
Extreme (20°C)		8.48	9.52	13.07	0.00486	0.00546	0.00749	PASS
Extreme (10°C)		7.60	13.73	15.63	0.00435	0.00787	0.00896	PASS
Extreme (0°C)		14.14	9.74	12.26	0.00810	0.00558	0.00703	PASS
25°C	LV	11.44	13.09	13.89	0.00656	0.00750	0.00796	PASS
	HV	12.37	17.37	14.37	0.00709	0.00995	0.00823	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25°C)	Normal	17.32	12.44	1.66	0.00993	0.00713	0.00095	PASS
Extreme (35°C)		6.76	8.17	10.50	0.00388	0.00468	0.00602	PASS
Extreme (30°C)		14.43	1.83	3.32	0.00827	0.00105	0.00190	PASS
Extreme (20°C)		9.43	10.44	15.24	0.00541	0.00598	0.00873	PASS
Extreme (10°C)		2.20	7.81	3.57	0.00126	0.00448	0.00205	PASS
Extreme (0°C)		8.95	2.50	14.42	0.00513	0.00143	0.00826	PASS
25°C	LV	17.53	3.29	15.64	0.01004	0.00189	0.00896	PASS
	HV	14.57	15.54	1.40	0.00835	0.00890	0.00080	PASS

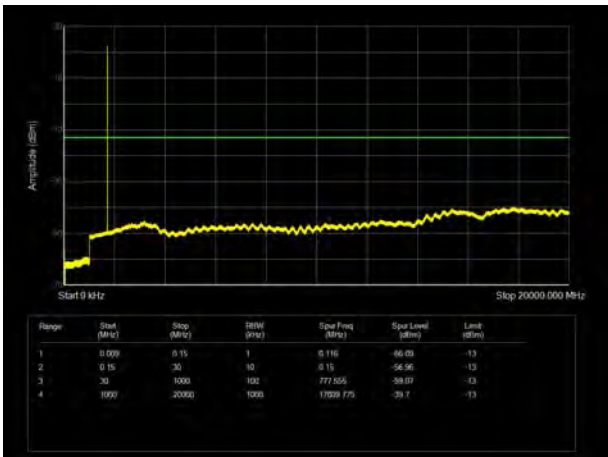
6.6 Spurious Emissions at Antenna Terminals

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.

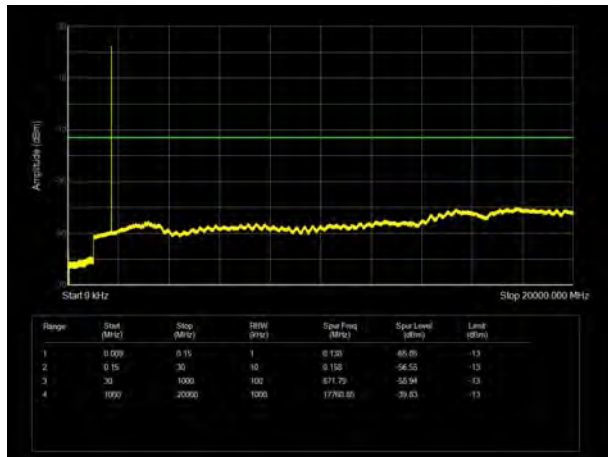




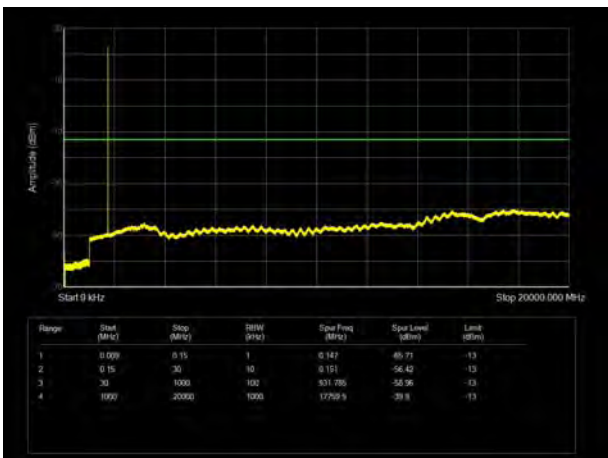
LTE Band 4 1.4MHz CH-Low 9kHz~20GHz



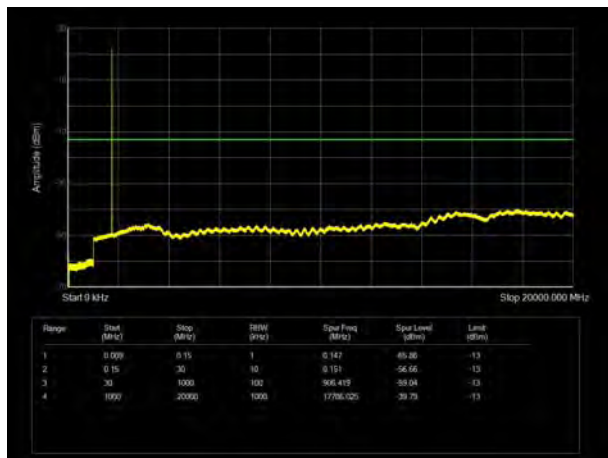
LTE Band 4 3MHz CH- Low 9kHz~20GHz



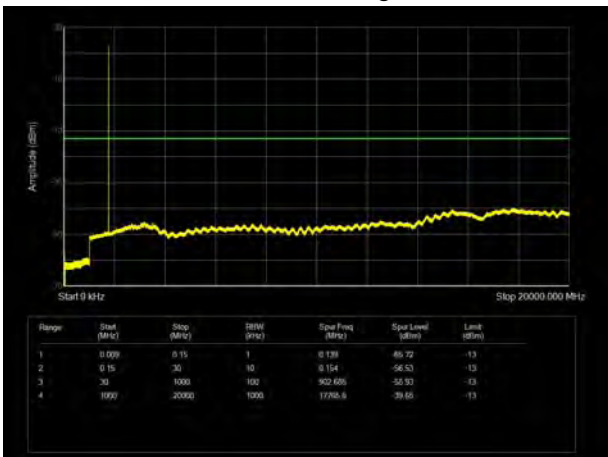
LTE Band 4 1.4MHz CH- Middle 9kHz~20GHz



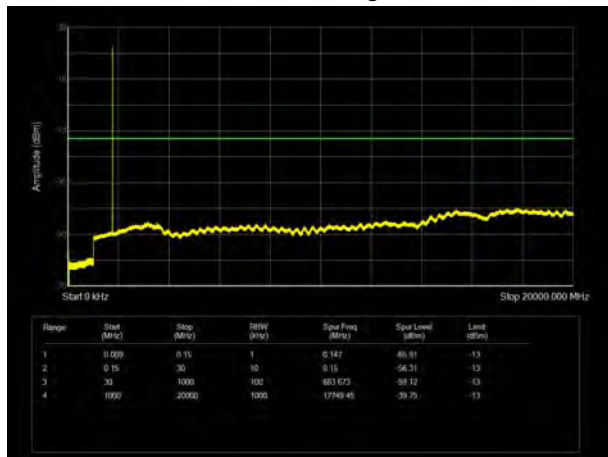
LTE Band 4 3MHz CH- Middle 9kHz~20GHz



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

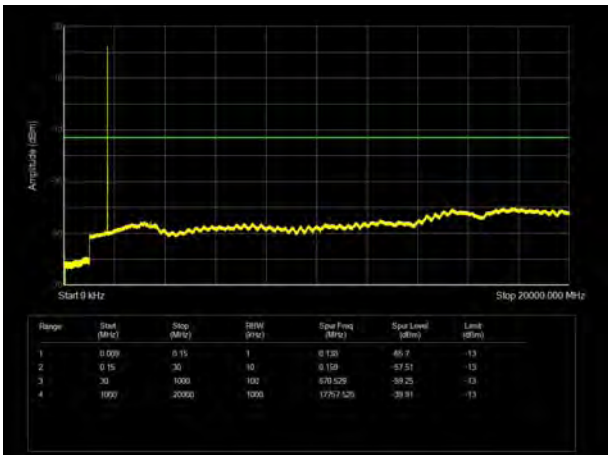


LTE Band 4 3MHz CH-High 9kHz~20GHz

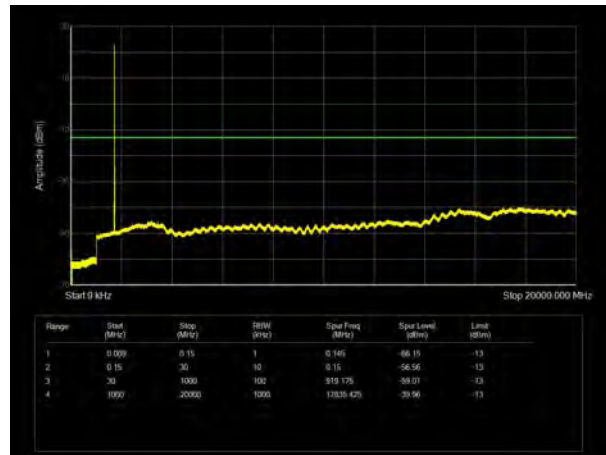




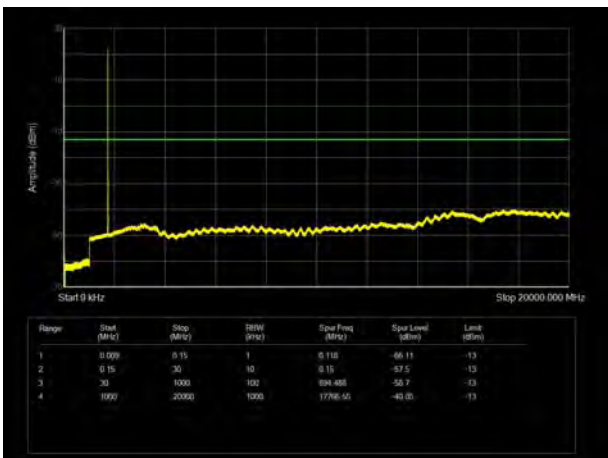
LTE Band 4 5MHz CH- Low 9kHz~20GHz



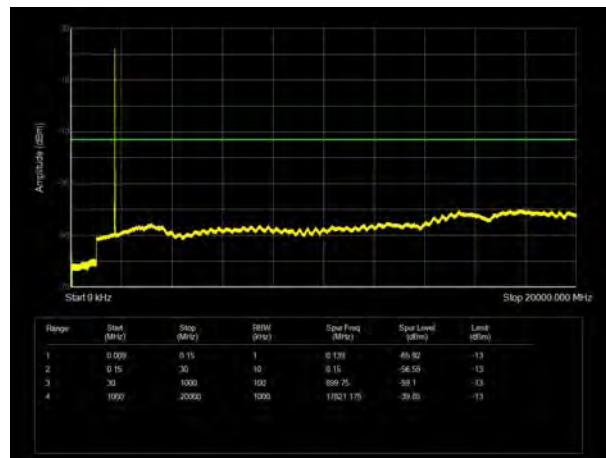
LTE Band 4 10MHz CH-Low 9kHz~20GHz



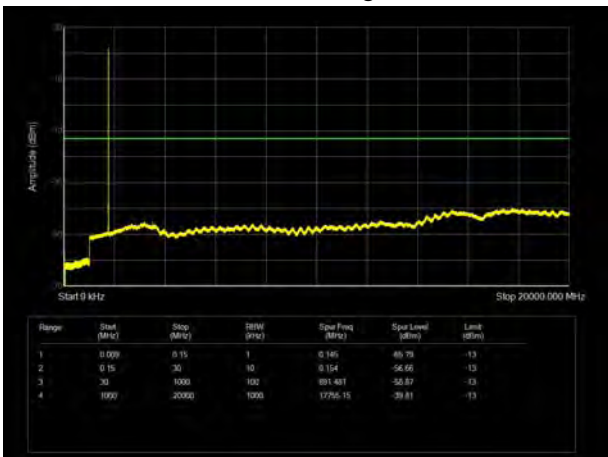
LTE Band 4 5MHz CH- Middle 9kHz~20GHz



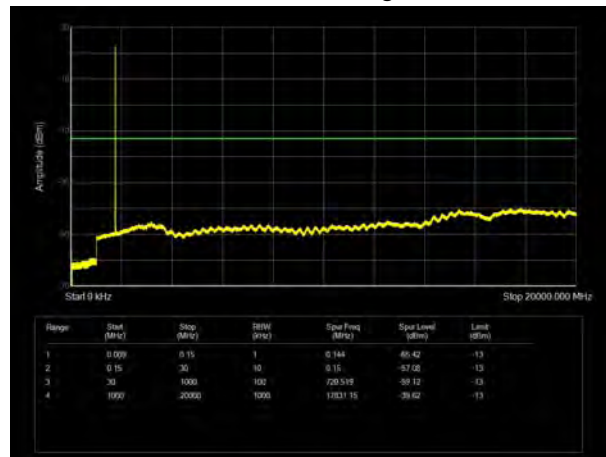
LTE Band 4 10MHz CH- Middle 9kHz~20GHz



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

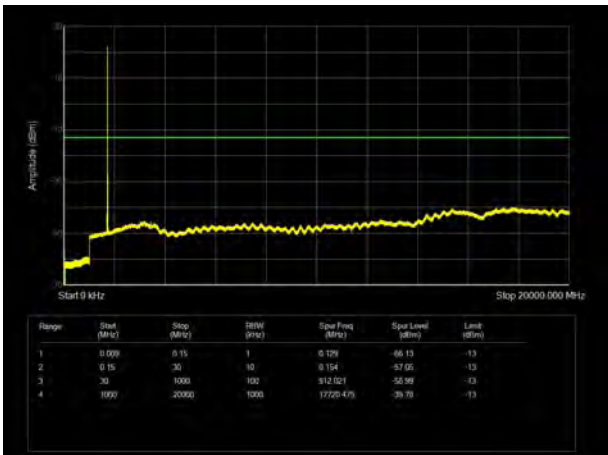


LTE Band 4 10MHz CH- High 9kHz~20GHz

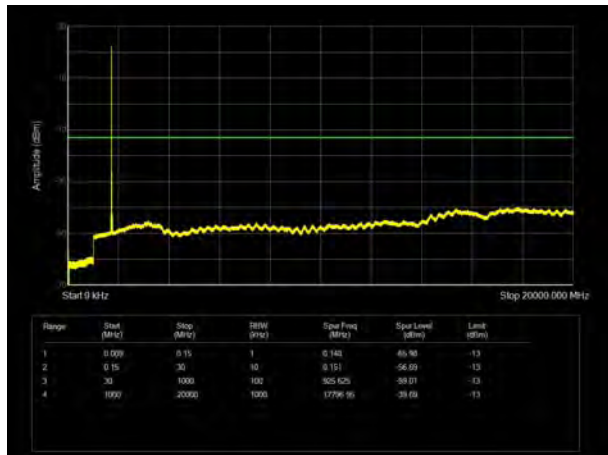




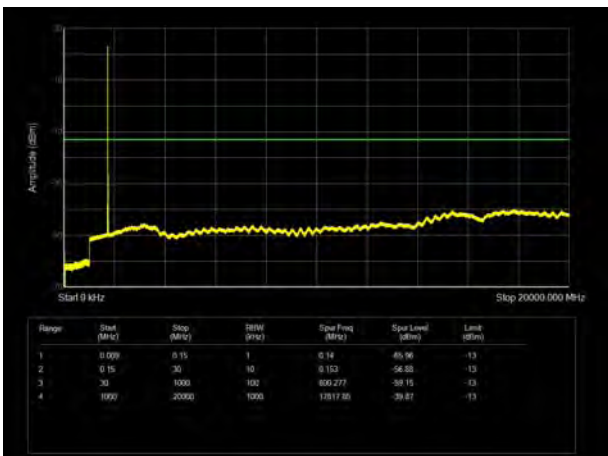
LTE Band 4 15MHz CH- Low 9kHz~20GHz



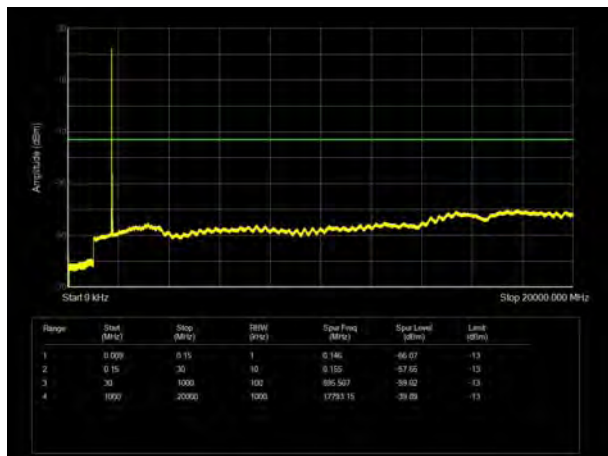
LTE Band 4 20MHz CH-Low 9kHz~20GHz



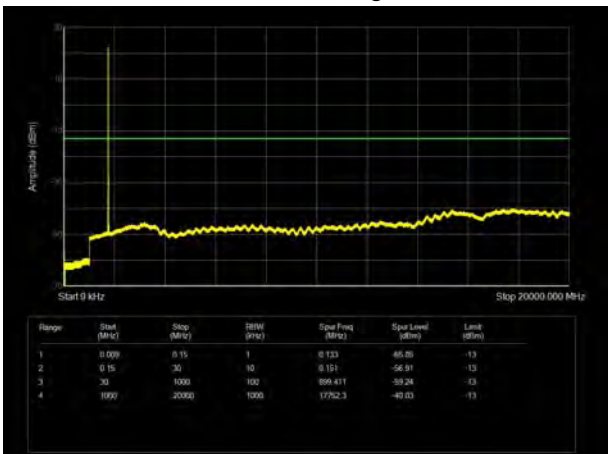
LTE Band 4 15MHz CH- Middle 9kHz~20GHz



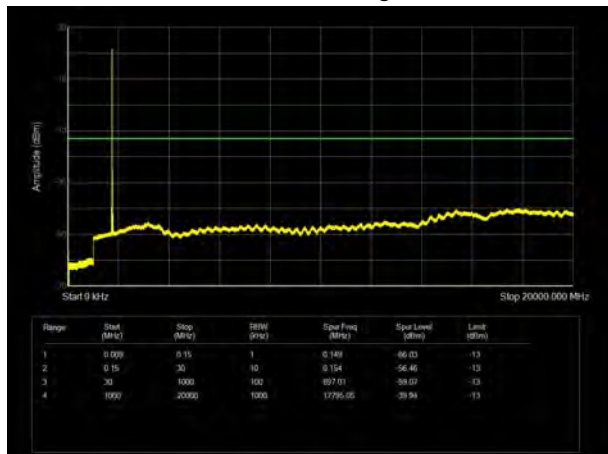
LTE Band 4 20MHz CH- Middle 9kHz~20GHz



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

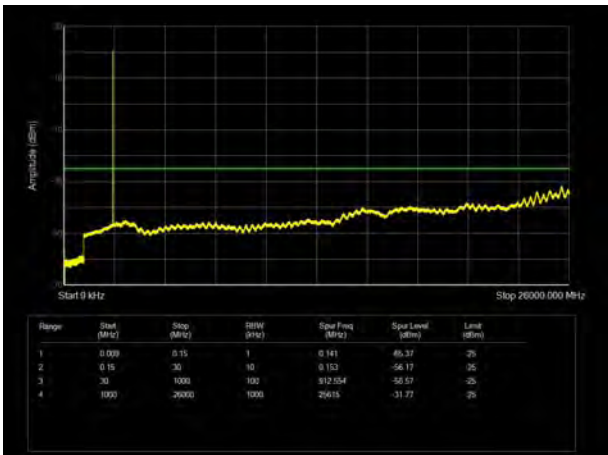


LTE Band 4 20MHz CH- High 9kHz~20GHz

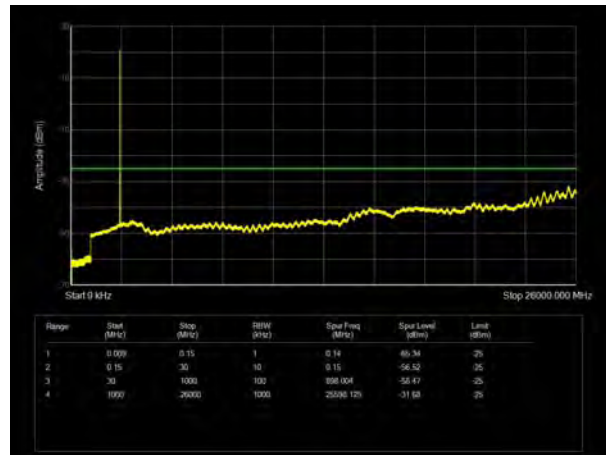




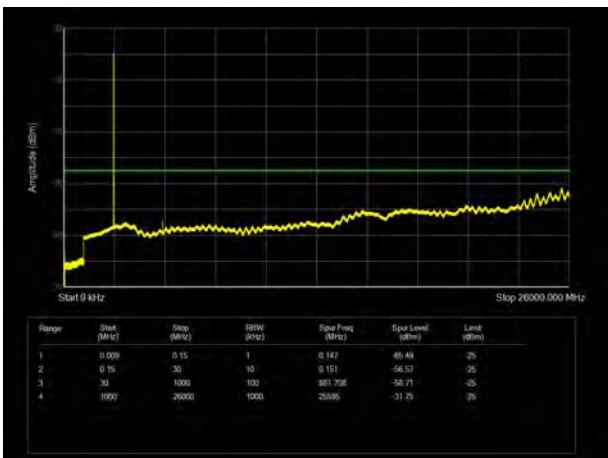
LTE Band 7 5MHz CH- Low 9kHz~26GHz



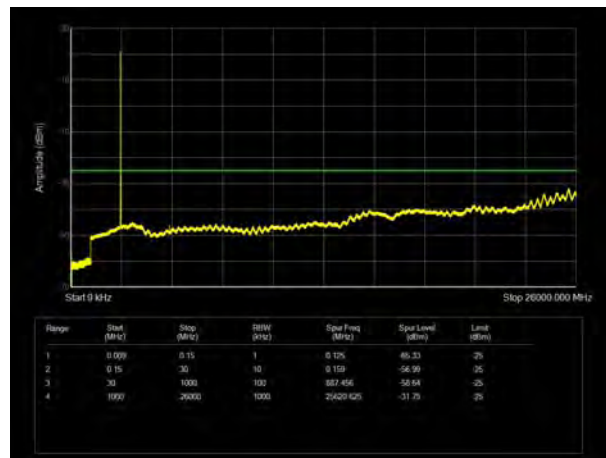
LTE Band 7 10MHz CH-Low 9kHz~26GHz



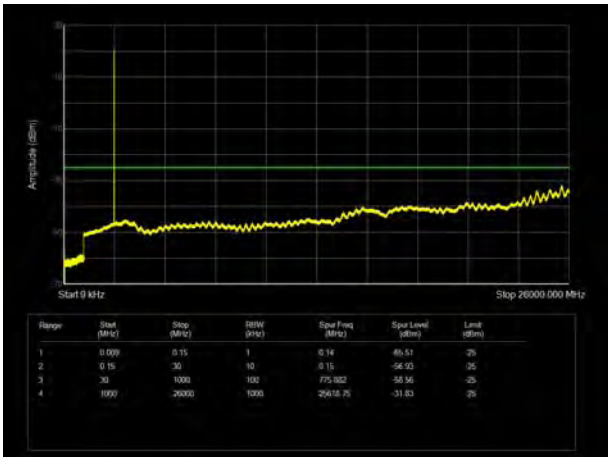
LTE Band 7 5MHz CH- Middle 9kHz~26GHz



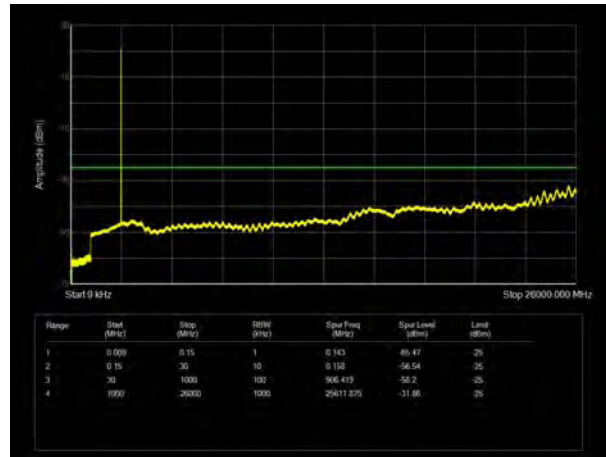
LTE Band 7 10MHz CH- Middle 9kHz~26GHz



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

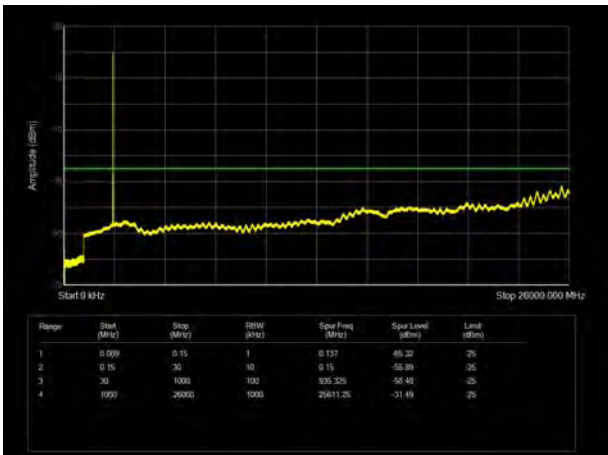


LTE Band 7 10MHz CH- High 9kHz~26GHz

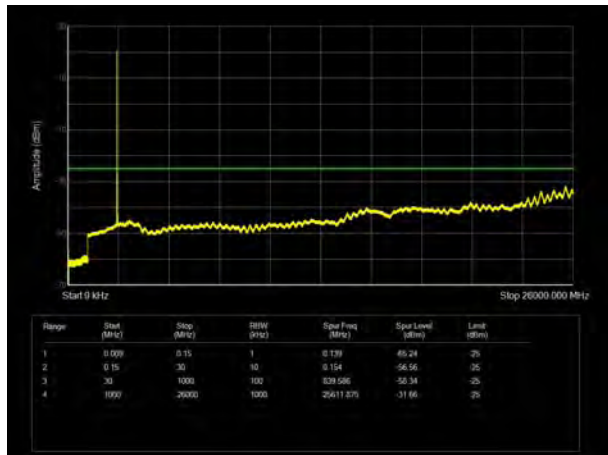




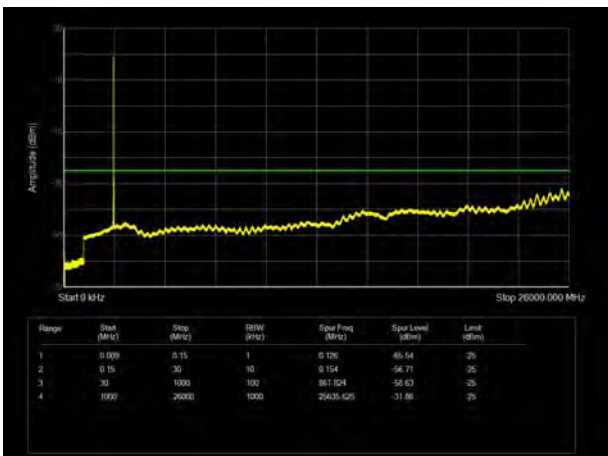
LTE Band 7 15MHz CH- Low 9kHz~26GHz



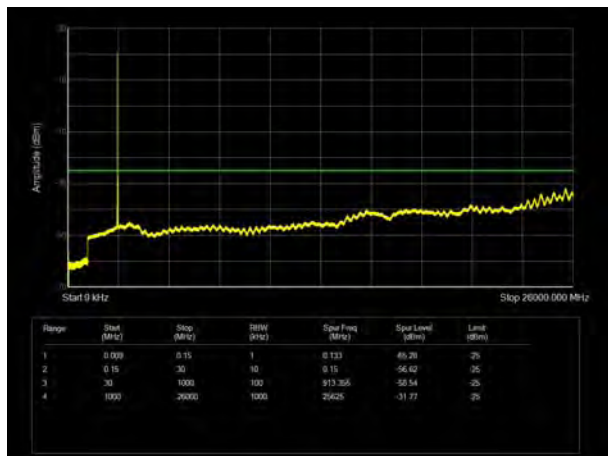
LTE Band 7 20MHz CH-Low 9kHz~26GHz



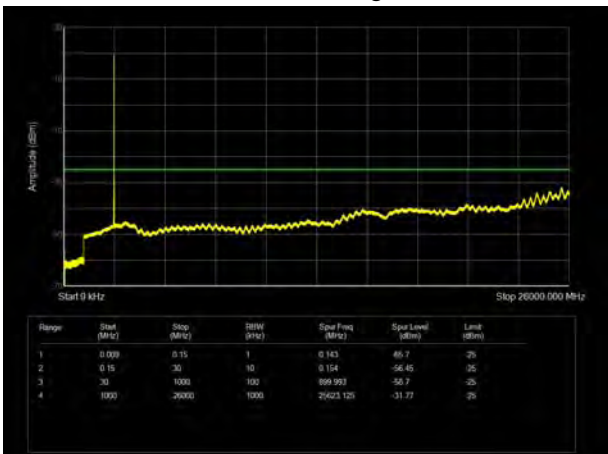
LTE Band 7 15MHz CH- Middle 9kHz~26GHz



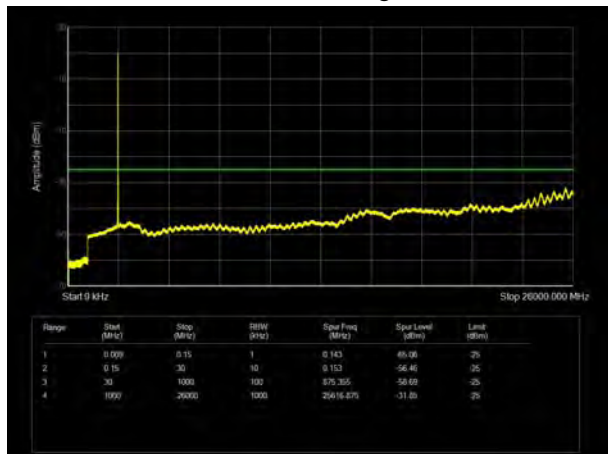
LTE Band 7 20MHz CH- Middle 9kHz~26GHz



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

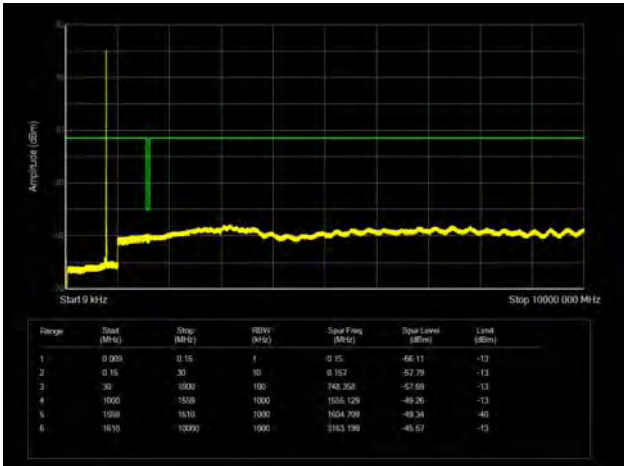


LTE Band 7 20MHz CH- High 9kHz~26GHz

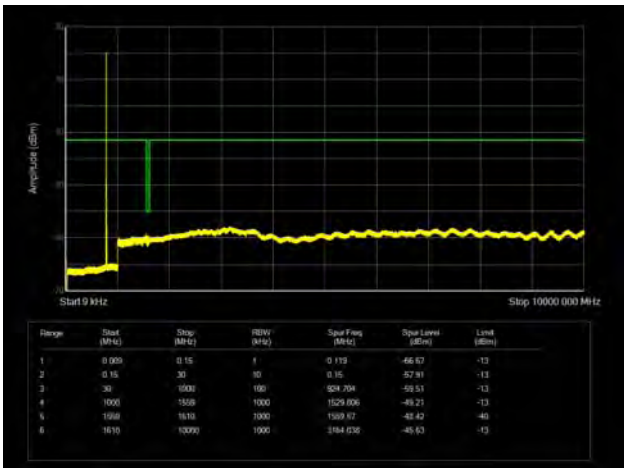




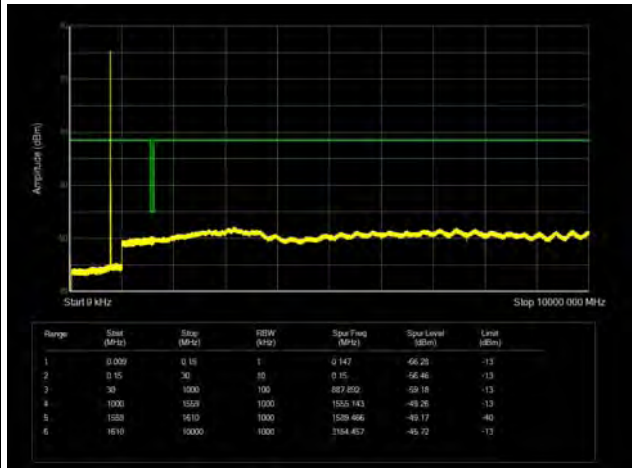
LTE Band 13 5MHz CH-Low 9kHz ~10GHz



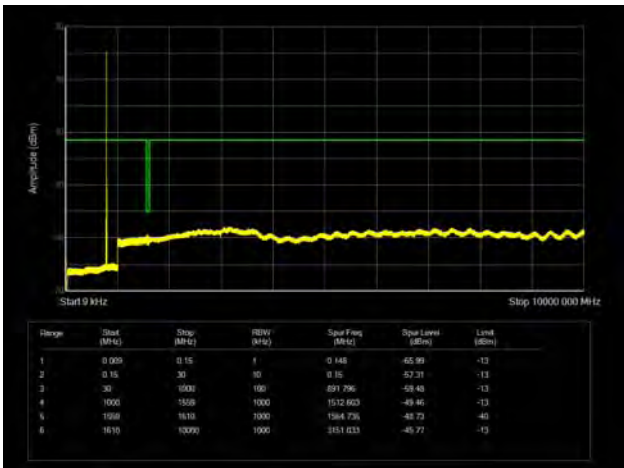
LTE Band 13 5MHz CH-Middle 9kHz ~10GHz



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



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

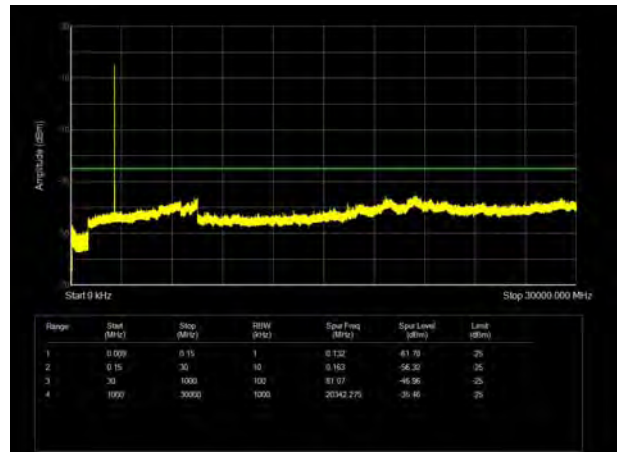




LTE Band 38 5MHz CH-Low 9kHz~30GHz



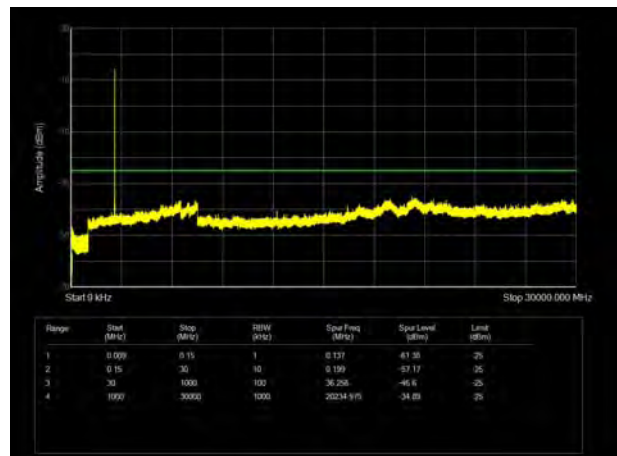
LTE Band 38 10MHz CH- Low 9kHz~30GHz



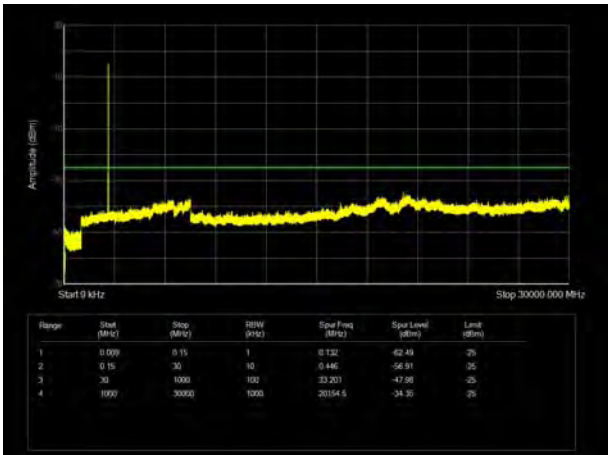
LTE Band 38 5MHz CH- Middle 9kHz~30GHz



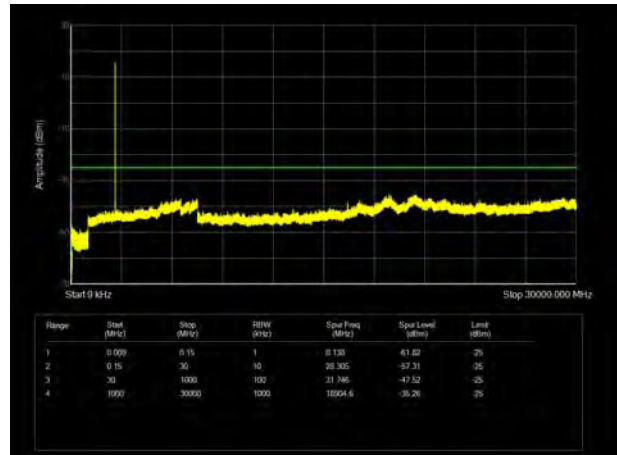
LTE Band 38 10MHz CH- Middle 9kHz~30GHz



LTE Band 38 5MHz CH- High 9kHz~30GHz

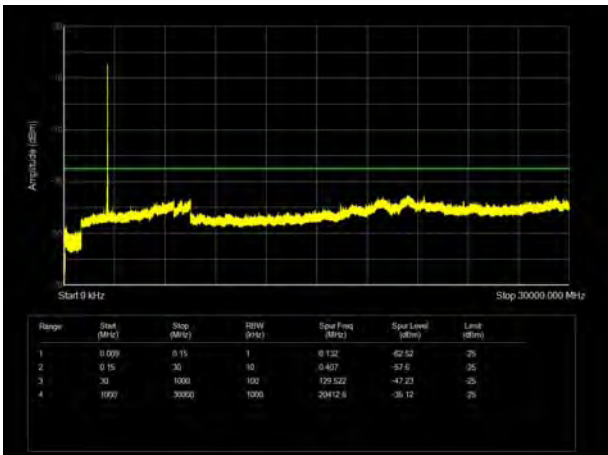


LTE Band 38 10MHz CH-High 9kHz~30GHz





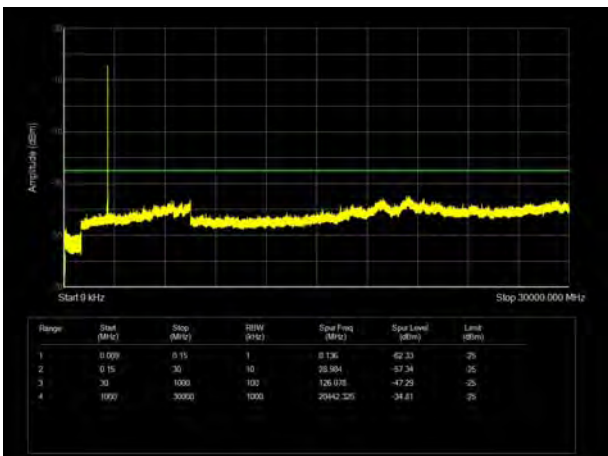
LTE Band 38 15MHz CH- Low 9kHz~30GHz



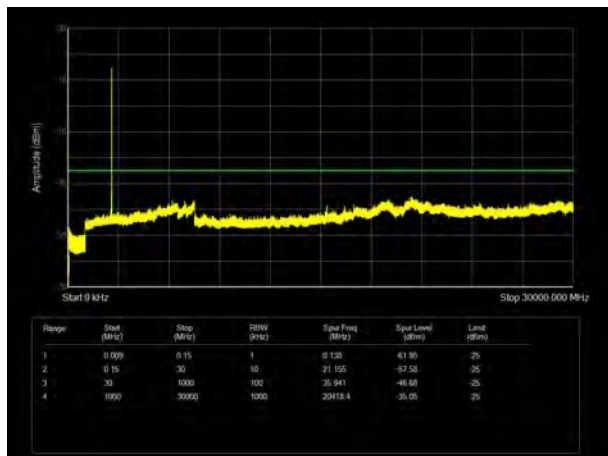
LTE Band 38 20MHz CH-Low 9kHz~30GHz



LTE Band 38 15MHz CH- Middle 9kHz~30GHz



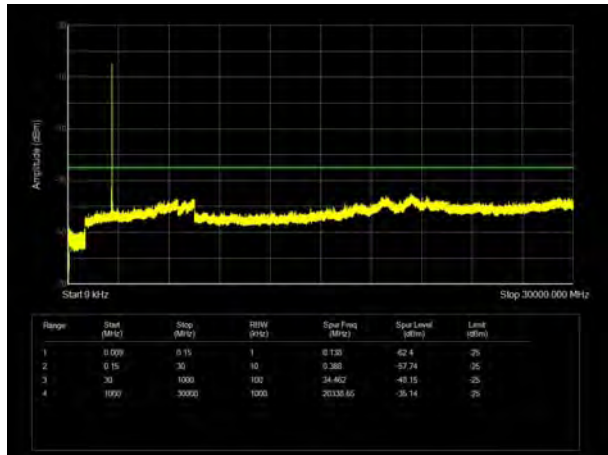
LTE Band 38 20MHz CH- Middle 9kHz~30GHz



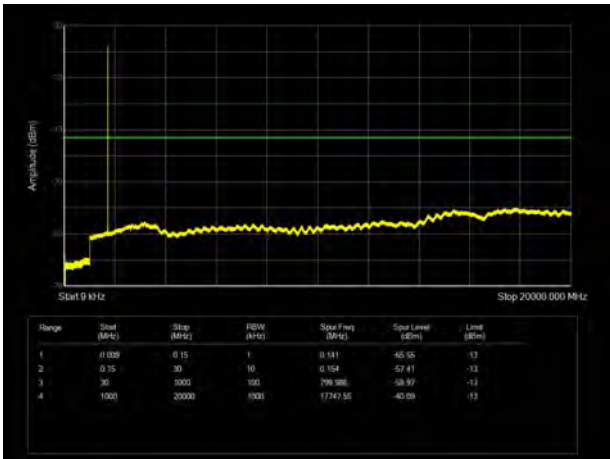
LTE Band 38 15MHz CH-High 9kHz~30GHz



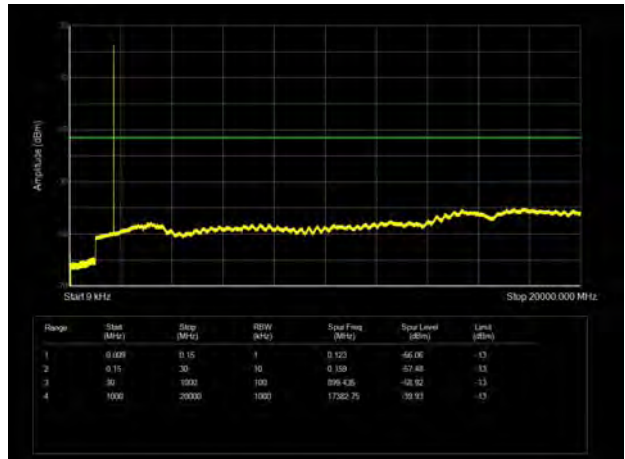
LTE Band 38 20MHz CH- High 9kHz~30GHz



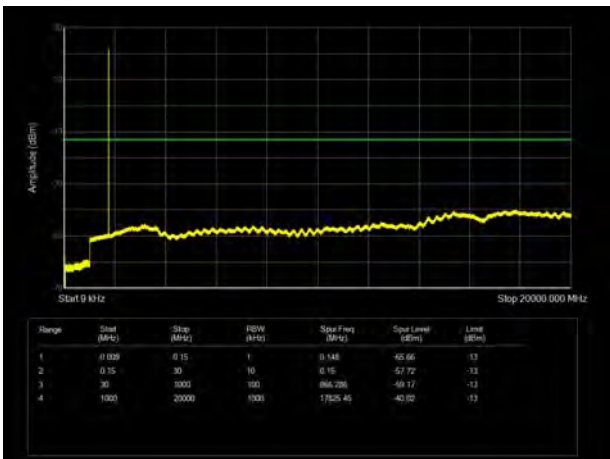
LTE Band 66 1.4MHz CH-Low 9kHz ~20GHz



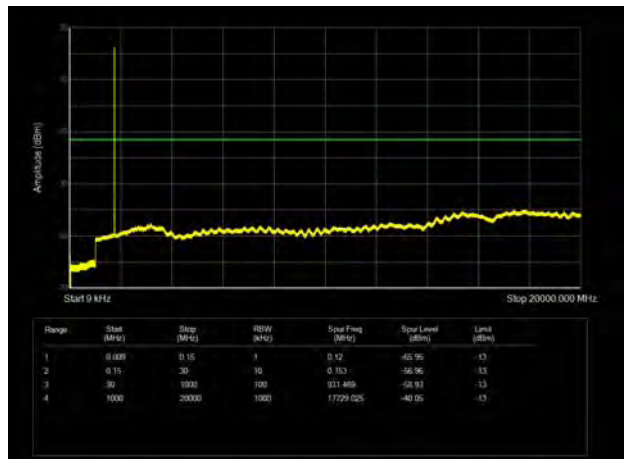
LTE Band 66 3MHz CH-Low 9kHz ~20GHz



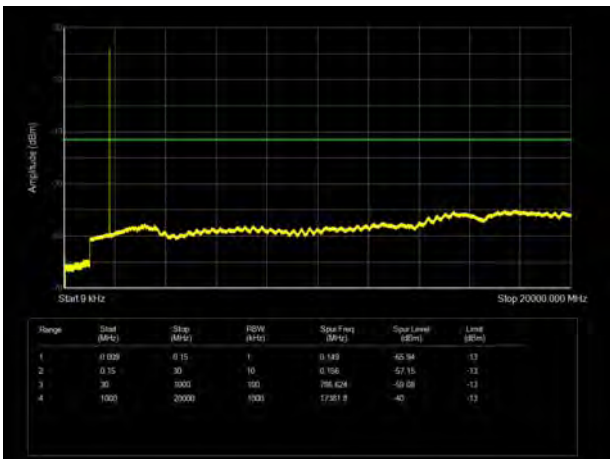
LTE Band 66 1.4MHz CH-Middle 9kHz ~20GHz



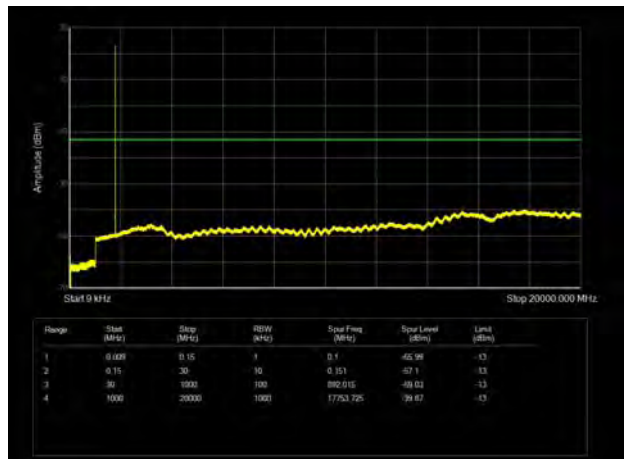
LTE Band 66 3MHz CH-Middle 9kHz ~20GHz



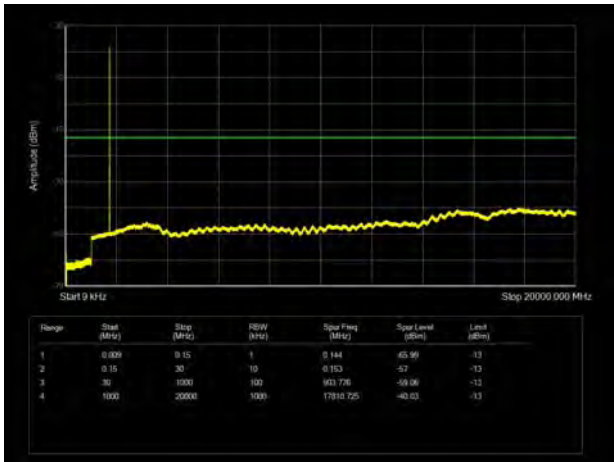
LTE Band 66 1.4MHz CH-High 9kHz ~20GHz



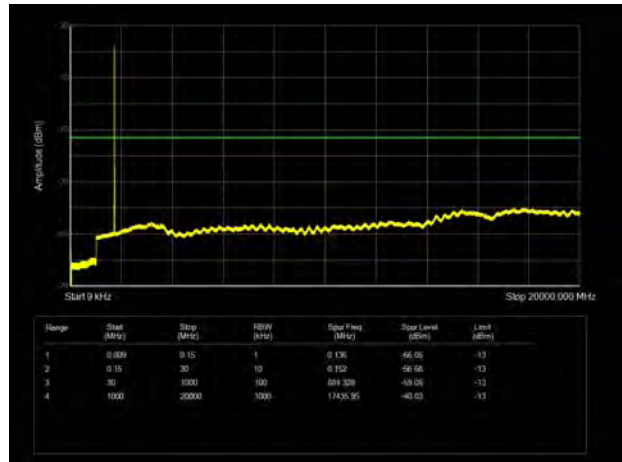
LTE Band 66 3MHz CH-High 9kHz ~20GHz



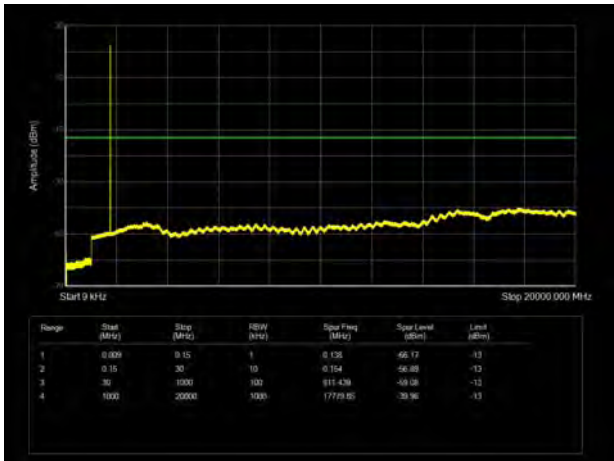
LTE Band 66 5MHz CH-Low 9kHz ~20GHz



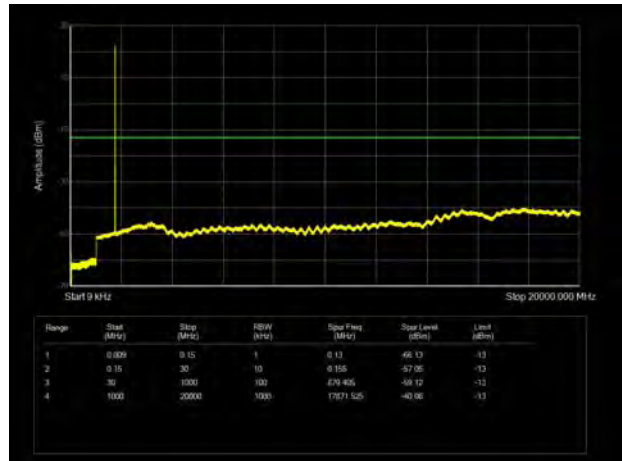
LTE Band 66 10MHz CH-Low 9kHz ~20GHz



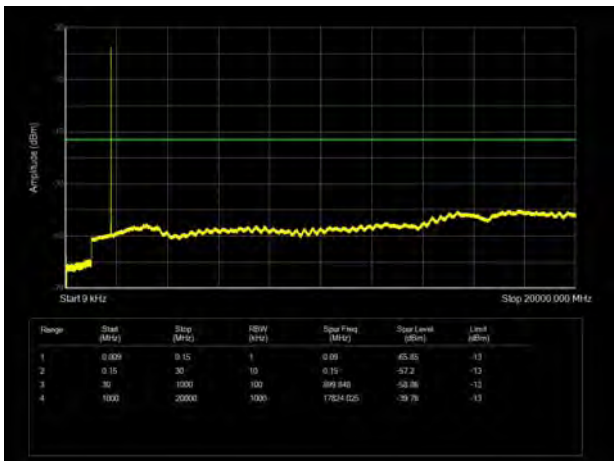
LTE Band 66 5MHz CH-Middle 9kHz ~20GHz



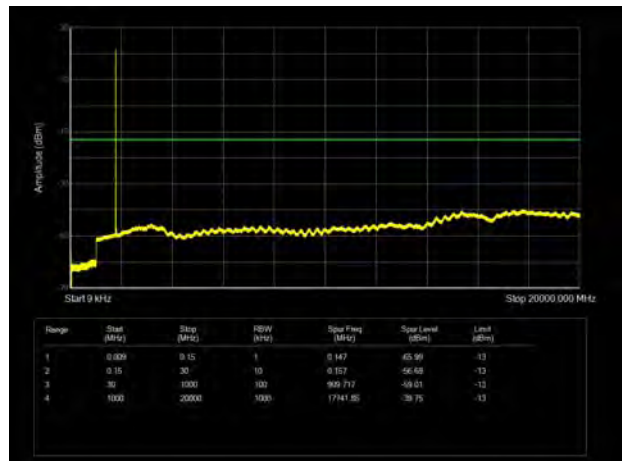
LTE Band 66 10MHz CH-Middle 9kHz ~20GHz



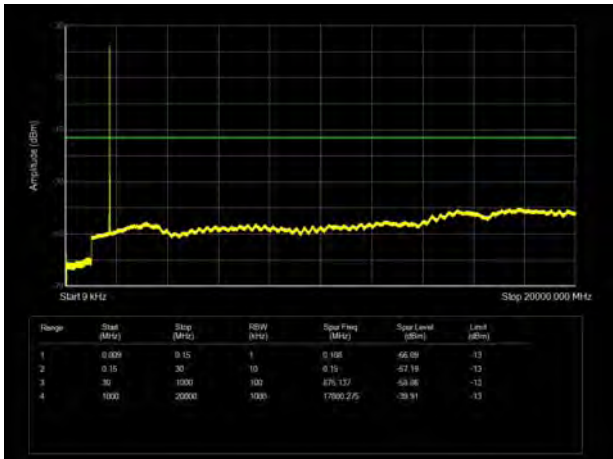
LTE Band 66 5MHz CH-High 9kHz ~20GHz



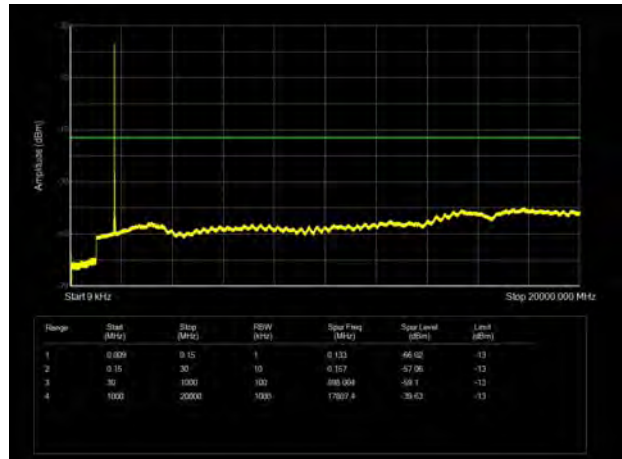
LTE Band 66 10MHz CH-High 9kHz ~20GHz



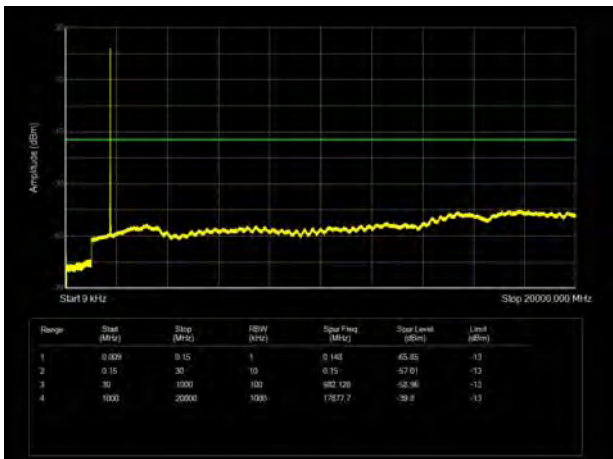
LTE Band 66 15MHz CH-Low 9kHz ~20GHz



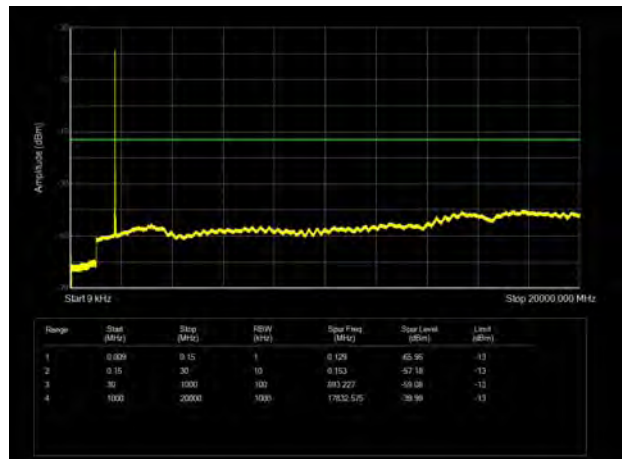
LTE Band 66 20MHz CH-Low 9kHz ~20GHz



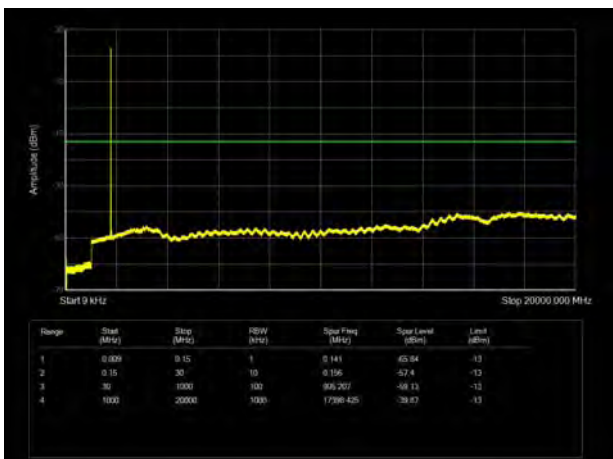
LTE Band 66 15MHz CH-Middle 9kHz ~20GHz



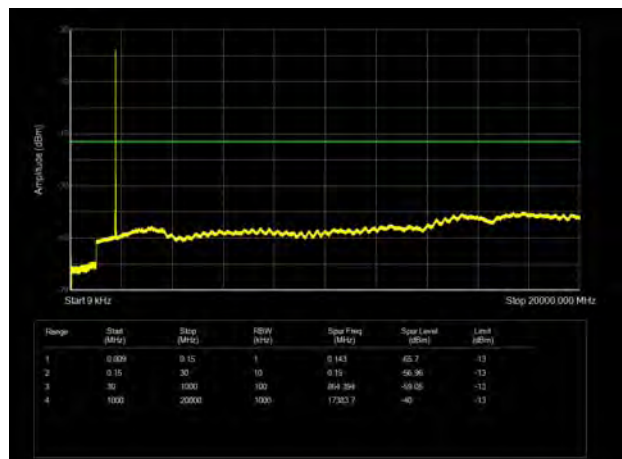
LTE Band 66 20MHz CH-Middle 9kHz ~20GHz



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



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





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.

Main Antenna

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	-63.26	2.70	12.70	Horizontal	-53.26	-13.00	40.26	135
3	5197.80	-62.95	3.20	12.50	Horizontal	-53.65	-13.00	40.65	45
4	6930.40	-62.50	4.20	11.80	Horizontal	-54.90	-13.00	41.90	225
5	8663.00	-60.43	4.40	12.50	Horizontal	-52.33	-13.00	39.33	0
6	10395.60	-55.96	4.70	11.30	Horizontal	-49.36	-13.00	36.36	45
7	12128.20	-54.17	5.20	13.80	Horizontal	-45.57	-13.00	32.57	90
8	13860.80	-51.73	5.70	11.30	Horizontal	-46.13	-13.00	33.13	270
9	15593.40	-56.58	6.10	16.80	Horizontal	-45.88	-13.00	32.88	135
10	17326.00	-54.01	6.10	14.20	Horizontal	-45.91	-13.00	32.91	45

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 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	-65.38	2.70	12.70	Horizontal	-55.38	-13.00	42.38	135
3	5197.50	-61.86	3.20	12.50	Horizontal	-52.56	-13.00	39.56	225
4	6930.00	-61.20	4.20	11.80	Horizontal	-53.60	-13.00	40.60	90
5	8662.50	-60.46	4.40	12.50	Horizontal	-52.36	-13.00	39.36	180
6	10395.00	-55.20	4.70	11.30	Horizontal	-48.60	-13.00	35.60	45
7	12127.50	-54.99	5.20	13.80	Horizontal	-46.39	-13.00	33.39	0
8	13860.00	-53.49	5.70	11.30	Horizontal	-47.89	-13.00	34.89	315
9	15592.50	-57.90	6.10	16.80	Horizontal	-47.20	-13.00	34.20	180
10	17325.00	-55.06	6.10	14.20	Horizontal	-46.96	-13.00	33.96	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 Horizontal 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	-64.06	2.70	12.70	Horizontal	-54.06	-13.00	41.06	180
3	5191.50	-63.06	3.20	12.50	Horizontal	-53.76	-13.00	40.76	90
4	6930.00	-62.19	4.20	11.80	Horizontal	-54.59	-13.00	41.59	225
5	8662.50	-60.30	4.40	12.50	Horizontal	-52.20	-13.00	39.20	270
6	10395.00	-54.74	4.70	11.30	Horizontal	-48.14	-13.00	35.14	135
7	12127.50	-55.77	5.20	13.80	Horizontal	-47.17	-13.00	34.17	0
8	13860.00	-53.16	5.70	11.30	Horizontal	-47.56	-13.00	34.56	90
9	15592.50	-57.31	6.10	16.80	Horizontal	-46.61	-13.00	33.61	180
10	17325.00	-55.08	6.10	14.20	Horizontal	-46.98	-13.00	33.98	45

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 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	3447.50	-58.19	2.70	12.70	Horizontal	-48.19	-13.00	35.19	0
3	5170.88	-62.15	3.20	12.50	Horizontal	-52.85	-13.00	39.85	225
4	6930.00	-61.51	4.20	11.80	Horizontal	-53.91	-13.00	40.91	0
5	8662.50	-59.61	4.40	12.50	Horizontal	-51.51	-13.00	38.51	45
6	10395.00	-54.29	4.70	11.30	Horizontal	-47.69	-13.00	34.69	315
7	12127.50	-55.01	5.20	13.80	Horizontal	-46.41	-13.00	33.41	0
8	13860.00	-52.98	5.70	11.30	Horizontal	-47.38	-13.00	34.38	180
9	15592.50	-56.51	6.10	16.80	Horizontal	-45.81	-13.00	32.81	225
10	17325.00	-55.04	6.10	14.20	Horizontal	-46.94	-13.00	33.94	90

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	5065.80	-54.14	3.40	12.50	Horizontal	-45.04	-25.00	20.04	180
3	7598.60	-56.68	4.40	12.20	Horizontal	-48.88	-25.00	23.88	225
4	10130.63	-51.59	4.70	11.30	Horizontal	-44.99	-25.00	19.99	315
5	12675.00	-52.93	5.40	13.20	Horizontal	-45.13	-25.00	20.13	0
6	15210.00	-49.23	6.10	13.10	Horizontal	-42.23	-25.00	17.23	45
7	17745.00	-53.29	6.10	14.20	Horizontal	-45.19	-25.00	20.19	315
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

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

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

LTE Band 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	5052.20	-57.69	3.40	12.50	Horizontal	-48.59	-25.00	23.59	315
3	7578.30	-55.01	4.40	12.20	Horizontal	-47.21	-25.00	22.21	0
4	10104.40	-51.15	4.70	11.30	Horizontal	-44.55	-25.00	19.55	45
5	12630.50	-52.70	5.40	13.20	Horizontal	-44.90	-25.00	19.90	225
6	15156.60	-48.90	6.10	13.10	Horizontal	-41.90	-25.00	16.90	135
7	17682.70	-51.39	6.10	14.20	Horizontal	-43.29	-25.00	18.29	270
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

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

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



LTE Band 13 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	1559.80	-71.47	1.70	8.70	Horizontal	-64.47	-40.00	24.47	270
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2339.60	-64.22	2.10	12.00	Horizontal	-56.47	-13.00	43.47	180
4	3128.00	-65.58	2.30	13.10	Horizontal	-56.93	-13.00	43.93	270
5	3910.00	-64.28	2.90	12.50	Horizontal	-56.83	-13.00	43.83	270
6	4692.00	-60.53	3.10	12.50	Horizontal	-53.28	-13.00	40.28	90
7	5474.00	-60.52	3.30	12.50	Horizontal	-53.47	-13.00	40.47	90
8	6256.00	-60.91	3.50	12.80	Horizontal	-53.76	-13.00	40.76	180
9	7038.00	-57.31	4.20	11.80	Horizontal	-51.86	-13.00	38.86	180
10	7820.00	-57.13	4.40	12.30	Horizontal	-51.38	-13.00	38.38	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 Horizontal position.

LTE Band 13 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	1555.53	-70.13	1.70	8.70	Horizontal	-63.13	-40.00	23.13	180
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2332.66	-63.34	2.10	12.00	Horizontal	-55.59	-13.00	42.59	270
4	3128.00	-65.81	2.30	13.10	Horizontal	-57.16	-13.00	44.16	225
5	3910.00	-63.81	2.90	12.50	Horizontal	-56.36	-13.00	43.36	225
6	4692.00	-60.25	3.10	12.50	Horizontal	-53.00	-13.00	40.00	225
7	5474.00	-60.38	3.30	12.50	Horizontal	-53.33	-13.00	40.33	225
8	6256.00	-60.59	3.50	12.80	Horizontal	-53.44	-13.00	40.44	225
9	7038.00	-58.23	4.20	11.80	Horizontal	-52.78	-13.00	39.78	225
10	7820.00	-56.97	4.40	12.30	Horizontal	-51.22	-13.00	38.22	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 Horizontal 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	-58.96	3.20	12.50	Horizontal	-49.66	-25.00	24.66	135
3	7777.50	-54.00	4.40	12.30	Horizontal	-46.10	-25.00	21.10	45
4	10370.00	-53.81	4.70	11.80	Horizontal	-46.71	-25.00	21.71	225
5	12962.50	-53.07	5.40	14.00	Horizontal	-44.47	-25.00	19.47	0
6	15555.00	-54.41	6.10	16.80	Horizontal	-43.71	-25.00	18.71	180
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 Horizontal 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	-57.25	3.20	12.50	Horizontal	-47.95	-25.00	22.95	225
3	7755.00	-53.42	4.40	12.30	Horizontal	-45.52	-25.00	20.52	45
4	10340.00	-53.83	4.70	11.80	Horizontal	-46.73	-25.00	21.73	0
5	12925.00	-52.85	5.40	14.00	Horizontal	-44.25	-25.00	19.25	315
6	15510.00	-55.12	6.10	16.80	Horizontal	-44.42	-25.00	19.42	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 Horizontal 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	-68.81	2.70	12.70	Horizontal	-58.81	-13.00	45.81	270
3	5232.90	-69.34	3.20	12.50	Horizontal	-60.04	-13.00	47.04	225
4	6977.20	-70.74	4.20	11.80	Horizontal	-63.14	-13.00	50.14	225
5	8721.50	-69.12	4.40	12.50	Horizontal	-61.02	-13.00	48.02	180
6	10465.80	-63.27	4.70	11.80	Horizontal	-56.17	-13.00	43.17	45
7	12210.10	-63.27	5.20	13.80	Horizontal	-54.67	-13.00	41.67	45
8	13954.40	-63.77	5.70	13.20	Horizontal	-56.27	-13.00	43.27	270
9	15698.70	-67.12	6.10	16.80	Horizontal	-56.42	-13.00	43.42	270
10	17443.00	-63.09	6.10	14.20	Horizontal	-54.99	-13.00	41.99	180

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 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	-68.06	2.70	12.70	Horizontal	-58.06	-13.00	45.06	90
3	5227.50	-70.49	3.20	12.50	Horizontal	-61.19	-13.00	48.19	90
4	6970.00	-71.20	4.20	11.80	Horizontal	-63.60	-13.00	50.60	90
5	8712.50	-69.96	4.40	12.50	Horizontal	-61.86	-13.00	48.86	90
6	10455.00	-64.13	4.70	11.80	Horizontal	-57.03	-13.00	44.03	180
7	12197.50	-62.93	5.20	13.80	Horizontal	-54.33	-13.00	41.33	270
8	13940.00	-63.32	5.70	13.20	Horizontal	-55.82	-13.00	42.82	270
9	15682.50	-66.73	6.10	16.80	Horizontal	-56.03	-13.00	43.03	270
10	17425.00	-63.76	6.10	14.20	Horizontal	-55.66	-13.00	42.66	45

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 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	-67.73	2.70	12.70	Horizontal	-57.73	-13.00	44.73	45
3	5205.00	-69.96	3.20	12.50	Horizontal	-60.66	-13.00	47.66	225
4	6940.00	-71.31	4.20	11.80	Horizontal	-63.71	-13.00	50.71	225
5	8675.00	-68.88	4.40	12.50	Horizontal	-60.78	-13.00	47.78	225
6	10410.00	-64.38	4.70	11.80	Horizontal	-57.28	-13.00	44.28	180
7	12145.00	-64.24	5.20	13.80	Horizontal	-55.64	-13.00	42.64	225
8	13880.00	-62.78	5.70	13.20	Horizontal	-55.28	-13.00	42.28	225
9	15615.00	-66.13	6.10	16.80	Horizontal	-55.43	-13.00	42.43	315
10	17350.00	-63.46	6.10	14.20	Horizontal	-55.36	-13.00	42.36	315

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.

**Second Antenna**

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	-64.93	2.70	12.70	Horizontal	-54.93	-13.00	41.93	135
3	5197.80	-60.84	3.20	12.50	Horizontal	-51.54	-13.00	38.54	45
4	6930.40	-60.37	4.20	11.80	Horizontal	-52.77	-13.00	39.77	225
5	8663.00	-59.18	4.40	12.50	Horizontal	-51.08	-13.00	38.08	0
6	10395.60	-55.48	4.70	11.30	Horizontal	-48.88	-13.00	35.88	45
7	12128.20	-54.85	5.20	13.80	Horizontal	-46.25	-13.00	33.25	90
8	13860.80	-51.93	5.70	11.30	Horizontal	-46.33	-13.00	33.33	270
9	15593.40	-57.31	6.10	16.80	Horizontal	-46.61	-13.00	33.61	135
10	17326.00	-55.25	6.10	14.20	Horizontal	-47.15	-13.00	34.15	45

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 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	-65.49	2.70	12.70	Vertical	-55.49	-13.00	42.49	315
3	5197.50	-59.64	3.20	12.50	Vertical	-50.34	-13.00	37.34	90
4	6930.00	-60.66	4.20	11.80	Vertical	-53.06	-13.00	40.06	225
5	8662.50	-59.53	4.40	12.50	Vertical	-51.43	-13.00	38.43	270
6	10395.00	-54.01	4.70	11.30	Vertical	-47.41	-13.00	34.41	225
7	12127.50	-54.94	5.20	13.80	Vertical	-46.34	-13.00	33.34	315
8	13860.00	-51.94	5.70	11.30	Vertical	-46.34	-13.00	33.34	180
9	15592.50	-56.41	6.10	16.80	Vertical	-45.71	-13.00	32.71	45
10	17325.00	-52.19	6.10	14.20	Vertical	-44.09	-13.00	31.09	90

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	-63.64	2.70	12.70	Vertical	-53.64	-13.00	40.64	180
3	5191.50	-59.88	3.20	12.50	Vertical	-50.58	-13.00	37.58	45
4	6930.00	-61.20	4.20	11.80	Vertical	-53.60	-13.00	40.60	225
5	8662.50	-59.00	4.40	12.50	Vertical	-50.90	-13.00	37.90	0
6	10395.00	-54.45	4.70	11.30	Vertical	-47.85	-13.00	34.85	0
7	12127.50	-54.32	5.20	13.80	Vertical	-45.72	-13.00	32.72	315
8	13860.00	-51.31	5.70	11.30	Vertical	-45.71	-13.00	32.71	225
9	15592.50	-55.75	6.10	16.80	Vertical	-45.05	-13.00	32.05	90
10	17325.00	-53.09	6.10	14.20	Vertical	-44.99	-13.00	31.99	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	3447.50	-59.01	2.70	12.70	Vertical	-49.01	-13.00	36.01	0
3	5170.88	-59.48	3.20	12.50	Vertical	-50.18	-13.00	37.18	45
4	6930.00	-61.51	4.20	11.80	Vertical	-53.91	-13.00	40.91	315
5	8662.50	-59.24	4.40	12.50	Vertical	-51.14	-13.00	38.14	90
6	10395.00	-54.52	4.70	11.30	Vertical	-47.92	-13.00	34.92	0
7	12127.50	-54.52	5.20	13.80	Vertical	-45.92	-13.00	32.92	0
8	13860.00	-51.87	5.70	11.30	Vertical	-46.27	-13.00	33.27	0
9	15592.50	-55.89	6.10	16.80	Vertical	-45.19	-13.00	32.19	0
10	17325.00	-53.18	6.10	14.20	Vertical	-45.08	-13.00	32.08	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	5065.80	-52.32	3.40	12.50	Vertical	-43.22	-25.00	18.22	180
3	7598.60	-50.22	4.40	12.20	Vertical	-42.42	-25.00	17.42	225
4	10130.63	-46.86	4.70	11.30	Vertical	-40.26	-25.00	15.26	315
5	12675.00	-52.33	5.40	13.20	Vertical	-44.53	-25.00	19.53	0
6	15210.00	-48.77	6.10	13.10	Vertical	-41.77	-25.00	16.77	45
7	17745.00	-51.91	6.10	14.20	Vertical	-43.81	-25.00	18.81	315
8	20280.00	--	--	--	--	--	--	--	--
9	22815.00	--	--	--	--	--	--	--	--
10	25350.00	--	--	--	--	--	--	--	--

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	5052.20	-55.57	3.40	12.50	Vertical	-46.47	-25.00	21.47	315
3	7578.30	-50.26	4.40	12.20	Vertical	-42.46	-25.00	17.46	0
4	10104.40	-47.84	4.70	11.30	Vertical	-41.24	-25.00	16.24	45
5	12630.50	-53.37	5.40	13.20	Vertical	-45.57	-25.00	20.57	225
6	15156.60	-49.28	6.10	13.10	Vertical	-42.28	-25.00	17.28	135
7	17682.70	-52.01	6.10	14.20	Vertical	-43.91	-25.00	18.91	270
8	20208.80	--	--	--	--	--	--	--	--
9	22734.90	--	--	--	--	--	--	--	--
10	25261.00	--	--	--	--	--	--	--	--

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 13 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	1559.80	-71.33	1.70	8.70	Vertical	-64.33	-40.00	24.33	45
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2339.60	-64.06	2.10	12.00	Vertical	-56.31	-13.00	43.31	135
4	3128.00	-65.33	2.30	13.10	Vertical	-56.68	-13.00	43.68	90
5	3910.00	-63.47	2.90	12.50	Vertical	-56.02	-13.00	43.02	270
6	4692.00	-60.69	3.10	12.50	Vertical	-53.44	-13.00	40.44	180
7	5474.00	-59.83	3.30	12.50	Vertical	-52.78	-13.00	39.78	225
8	6256.00	-60.56	3.50	12.80	Vertical	-53.41	-13.00	40.41	135
9	7038.00	-58.25	4.20	11.80	Vertical	-52.80	-13.00	39.80	270
10	7820.00	-57.17	4.40	12.30	Vertical	-51.42	-13.00	38.42	45

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 13 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	1555.53	-70.82	1.70	8.70	Vertical	-63.82	-40.00	23.82	90
Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
3	2332.66	-63.59	2.10	12.00	Vertical	-55.84	-13.00	42.84	0
4	3128.00	-65.77	2.30	13.10	Vertical	-57.12	-13.00	44.12	225
5	3910.00	-63.08	2.90	12.50	Vertical	-55.63	-13.00	42.63	135
6	4692.00	-60.72	3.10	12.50	Vertical	-53.47	-13.00	40.47	45
7	5474.00	-60.40	3.30	12.50	Vertical	-53.35	-13.00	40.35	225
8	6256.00	-60.63	3.50	12.80	Vertical	-53.48	-13.00	40.48	90
9	7038.00	-59.09	4.20	11.80	Vertical	-53.64	-13.00	40.64	45
10	7820.00	-56.12	4.40	12.30	Vertical	-50.37	-13.00	37.37	180

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	-57.22	3.20	12.50	Vertical	-47.92	-25.00	22.92	135
3	7777.50	-50.16	4.40	12.30	Vertical	-42.26	-25.00	17.26	45
4	10370.00	-46.69	4.70	11.80	Vertical	-39.59	-25.00	14.59	225
5	12962.50	-52.56	5.40	14.00	Vertical	-43.96	-25.00	18.96	0
6	15555.00	-54.25	6.10	16.80	Vertical	-43.55	-25.00	18.55	180
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	-55.73	3.20	12.50	Vertical	-46.43	-25.00	21.43	225
3	7755.00	-51.32	4.40	12.30	Vertical	-43.42	-25.00	18.42	45
4	10340.00	-47.44	4.70	11.80	Vertical	-40.34	-25.00	15.34	0
5	12925.00	-52.42	5.40	14.00	Vertical	-43.82	-25.00	18.82	315
6	15510.00	-54.60	6.10	16.80	Vertical	-43.90	-25.00	18.90	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 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	-72.39	2.70	12.70	Vertical	-62.39	-13.00	49.39	315
3	5232.90	-68.69	3.20	12.50	Vertical	-59.39	-13.00	46.39	45
4	6977.20	-70.98	4.20	11.80	Vertical	-63.38	-13.00	50.38	315
5	8721.50	-68.76	4.40	12.50	Vertical	-60.66	-13.00	47.66	270
6	10465.80	-63.82	4.70	11.80	Vertical	-56.72	-13.00	43.72	225
7	12210.10	-63.79	5.20	13.80	Vertical	-55.19	-13.00	42.19	270
8	13954.40	-64.14	5.70	13.20	Vertical	-56.64	-13.00	43.64	180
9	15698.70	-66.66	6.10	16.80	Vertical	-55.96	-13.00	42.96	0
10	17443.00	-63.50	6.10	14.20	Vertical	-55.40	-13.00	42.40	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 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	-70.88	2.70	12.70	Vertical	-60.88	-13.00	47.88	0
3	5227.50	-66.32	3.20	12.50	Vertical	-57.02	-13.00	44.02	270
4	6970.00	-70.35	4.20	11.80	Vertical	-62.75	-13.00	49.75	270
5	8712.50	-70.03	4.40	12.50	Vertical	-61.93	-13.00	48.93	135
6	10455.00	-64.44	4.70	11.80	Vertical	-57.34	-13.00	44.34	180
7	12197.50	-63.65	5.20	13.80	Vertical	-55.05	-13.00	42.05	180
8	13940.00	-63.33	5.70	13.20	Vertical	-55.83	-13.00	42.83	315
9	15682.50	-66.65	6.10	16.80	Vertical	-55.95	-13.00	42.95	270
10	17425.00	-63.80	6.10	14.20	Vertical	-55.70	-13.00	42.70	270

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	-70.80	2.70	12.70	Vertical	-60.80	-13.00	47.80	0
3	5205.00	-65.93	3.20	12.50	Vertical	-56.63	-13.00	43.63	270
4	6940.00	-70.43	4.20	11.80	Vertical	-62.83	-13.00	49.83	225
5	8675.00	-68.92	4.40	12.50	Vertical	-60.82	-13.00	47.82	0
6	10410.00	-64.32	4.70	11.80	Vertical	-57.22	-13.00	44.22	0
7	12145.00	-65.13	5.20	13.80	Vertical	-56.53	-13.00	43.53	90
8	13880.00	-63.60	5.70	13.20	Vertical	-56.10	-13.00	43.10	135
9	15615.00	-65.92	6.10	16.80	Vertical	-55.22	-13.00	42.22	0
10	17350.00	-63.35	6.10	14.20	Vertical	-55.25	-13.00	42.25	90

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
Universal Radio Communication Tester	R&S	CMW500	150415	2022-05-14	2023-05-13
Spectrum Analyzer	Keysight	N9020A	MY50510203	2021-12-12	2022-12-11
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	FSV40	101297	2021-12-12	2022-12-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	01111	2019-09-12	2022-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	1594	2020-12-17	2023-12-16
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2019-12-24	2022-12-23
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.