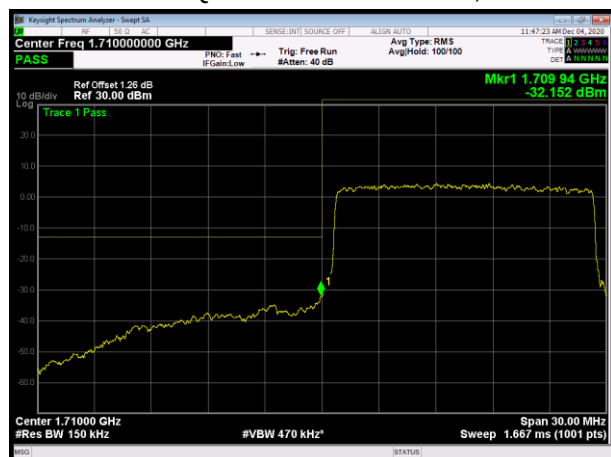
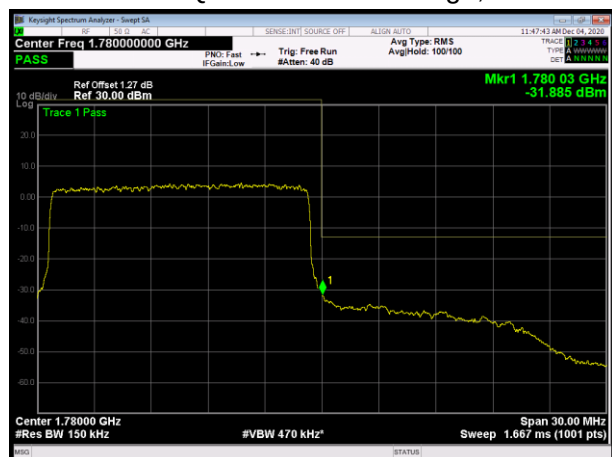


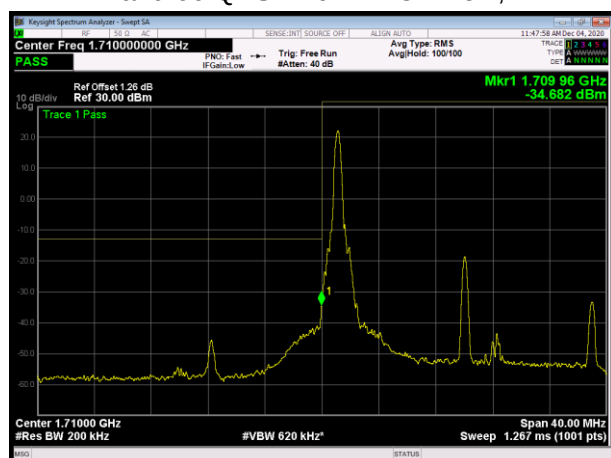
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



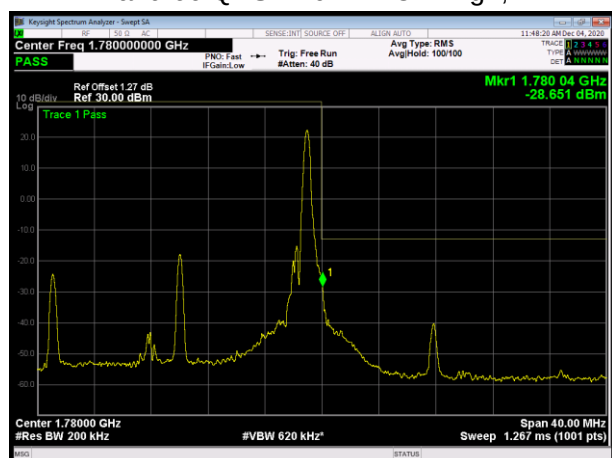
LTE Band 66 QPSK 15MHz CH-High, 100%RB



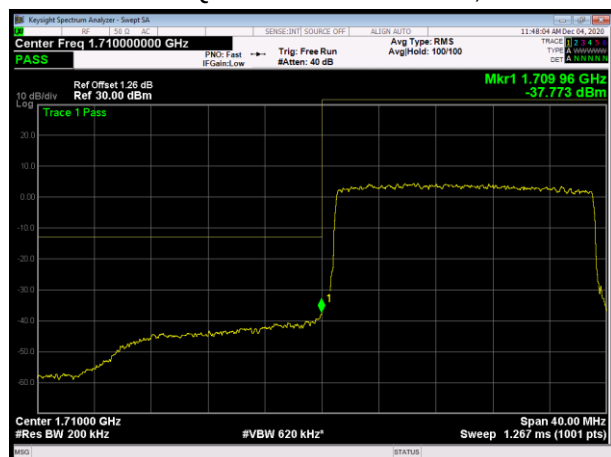
LTE Band 66 QPSK 20MHz CH-Low, 1 RB



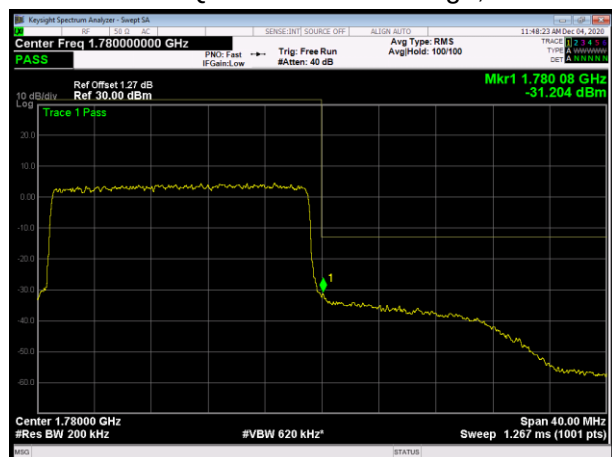
LTE Band 66 QPSK 20MHz CH-High, 1 RB



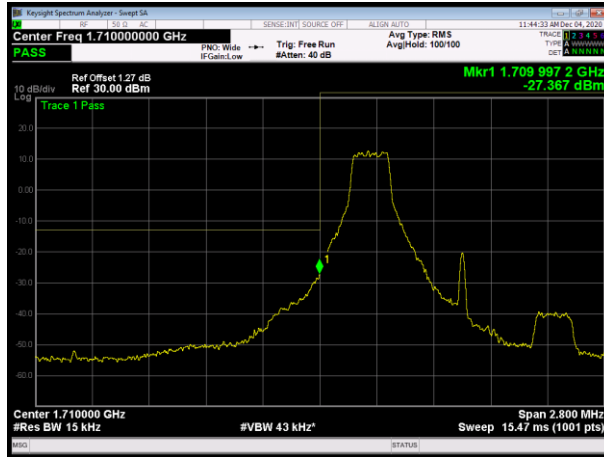
LTE Band 66 QPSK 20MHz CH-Low, 100%RB



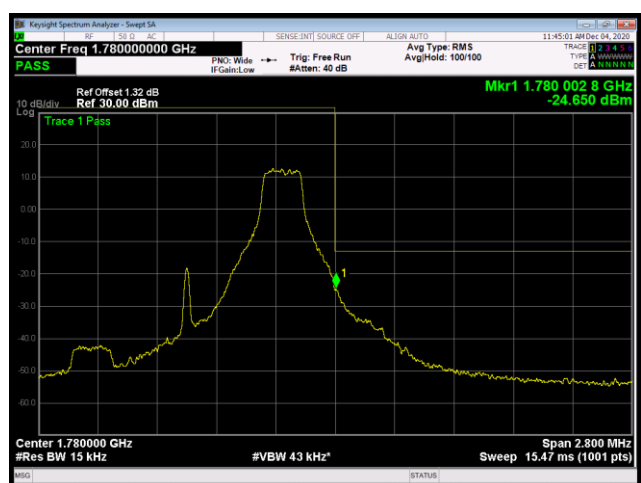
LTE Band 66 QPSK 20MHz CH-High, 100%RB



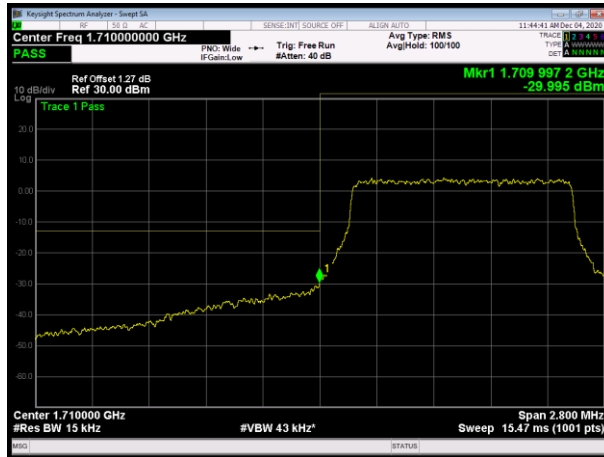
LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



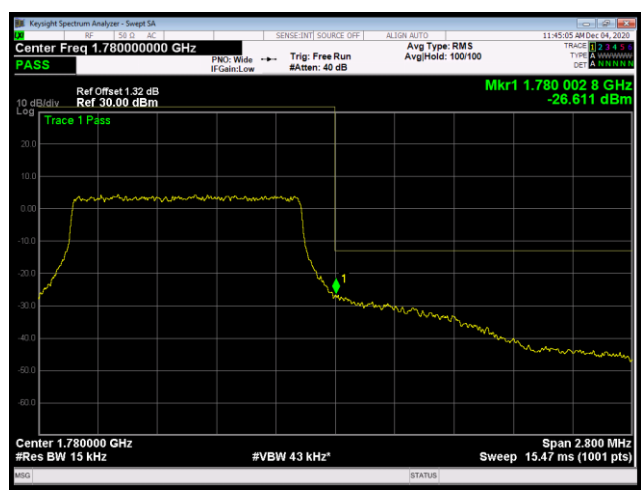
LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



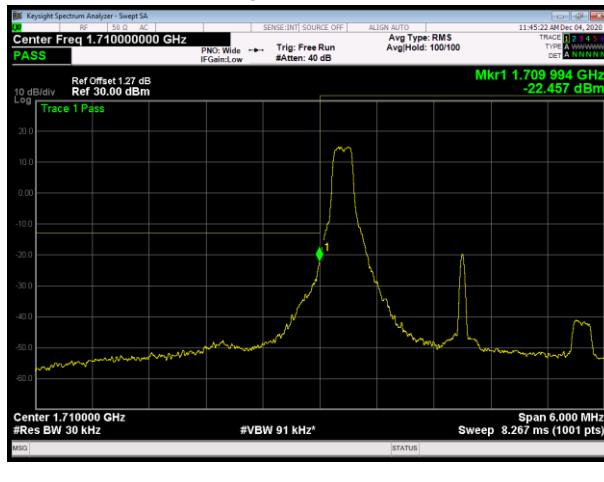
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



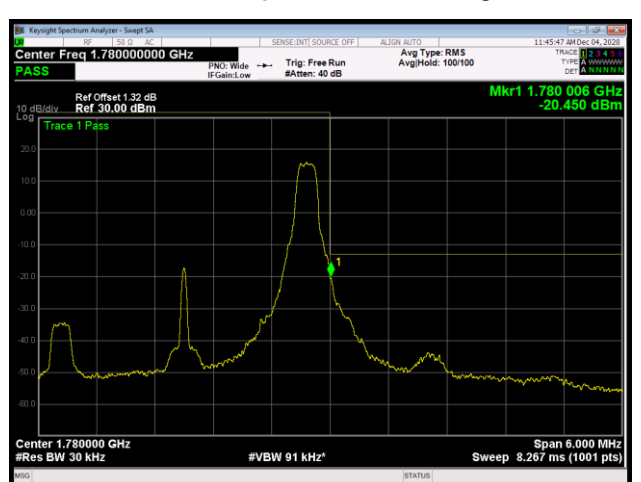
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



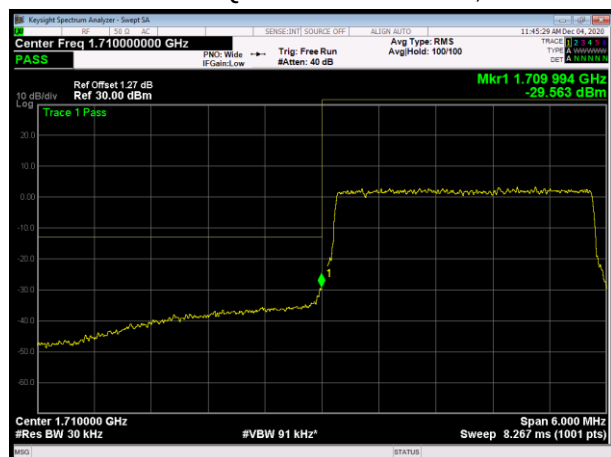
LTE Band 66 16QAM 3MHz CH-Low, 1 RB



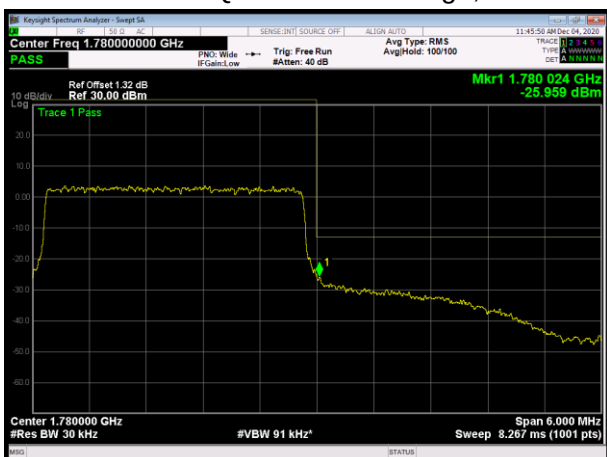
LTE Band 66 16QAM 3MHz CH-High, 1 RB



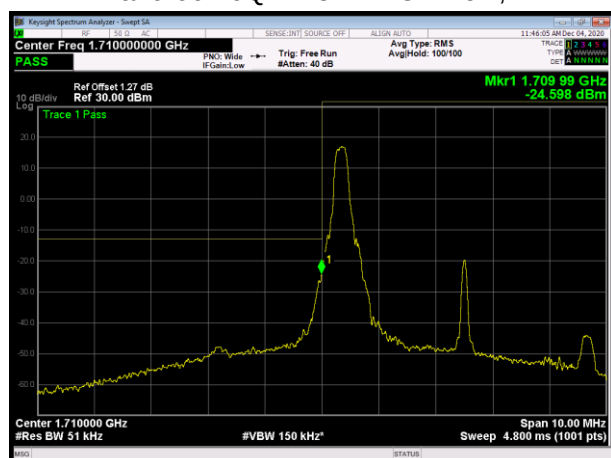
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



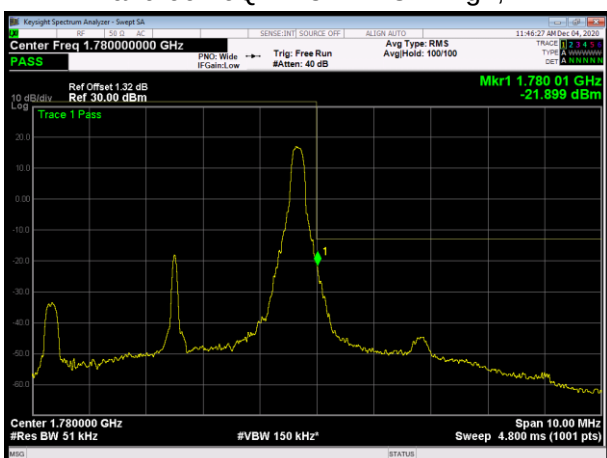
LTE Band 66 16QAM 3MHz CH-High, 100%RB



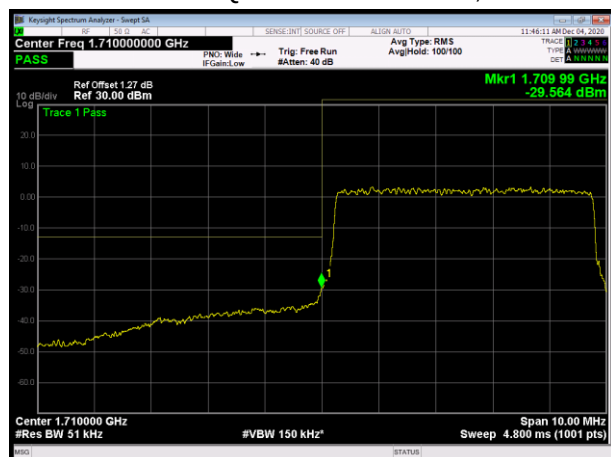
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



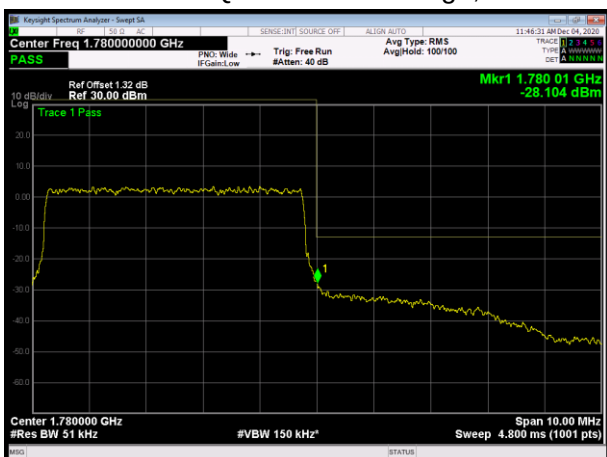
LTE Band 66 16QAM 5MHz CH-High, 1 RB



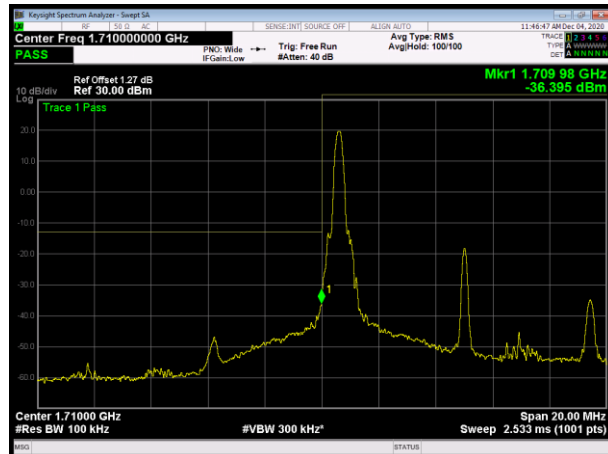
LTE Band 66 16QAM 5MHz CH-Low, 100%RB



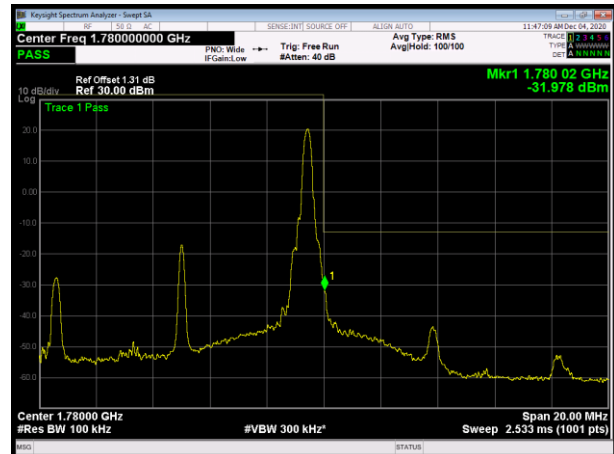
LTE Band 66 16QAM 5MHz CH-High, 100%RB



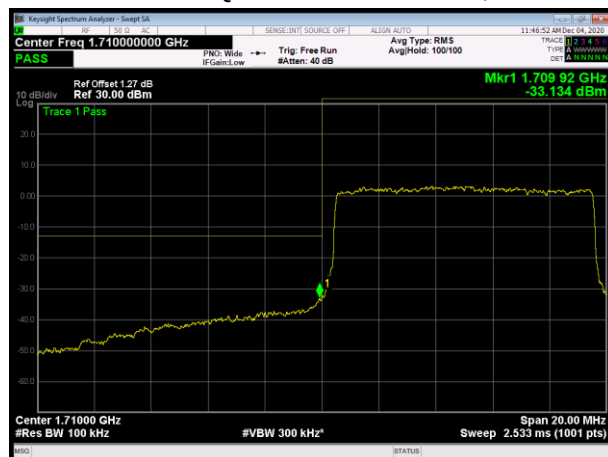
LTE Band 66 16QAM 10MHz CH-Low, 1 RB



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



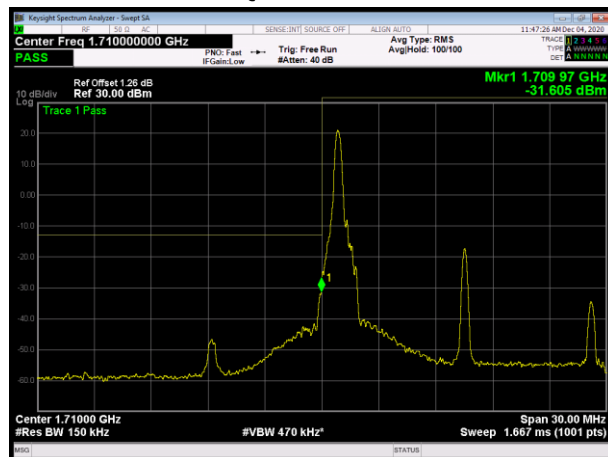
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



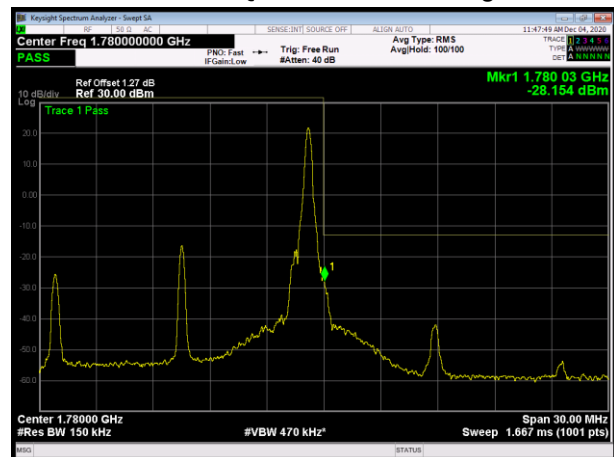
LTE Band 66 16QAM 10MHz CH-High, 100%RB



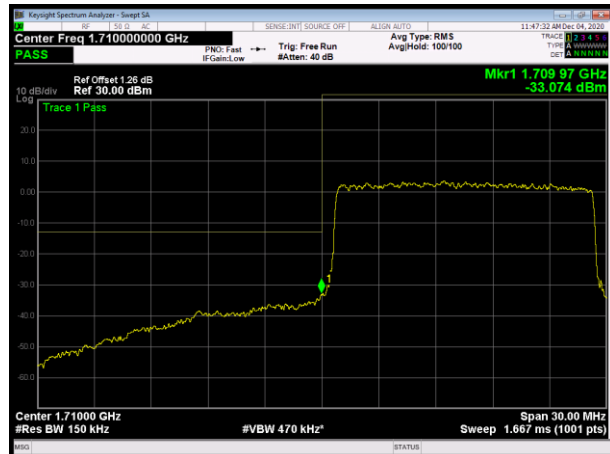
LTE Band 66 16QAM 15MHz CH-Low, 1 RB



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



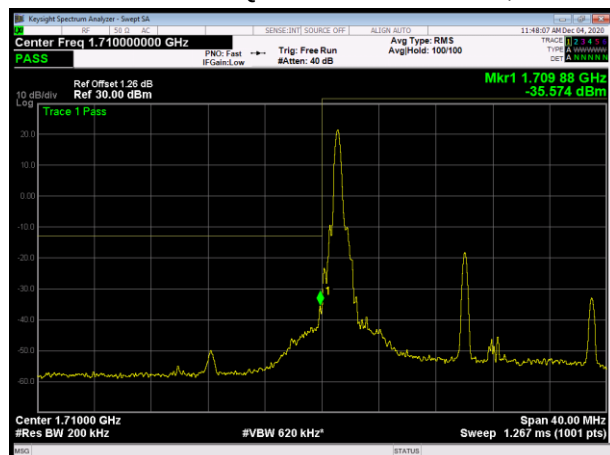
LTE Band 66 16QAM 15MHz CH-Low, 100%RB



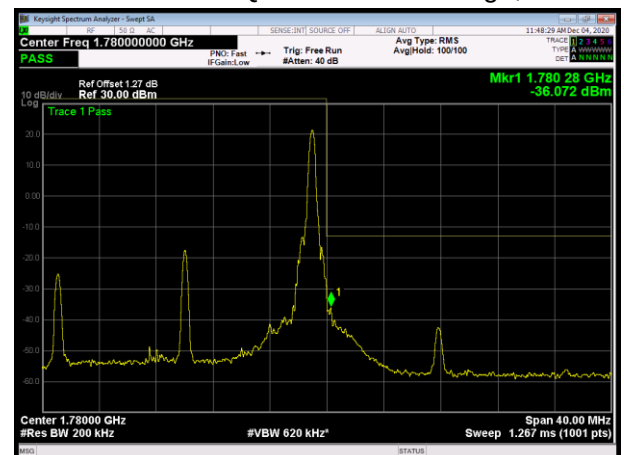
LTE Band 66 16QAM 15MHz CH-High, 100%RB



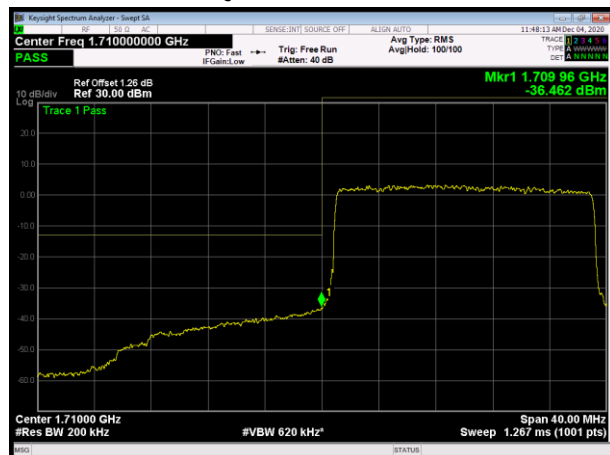
LTE Band 66 16QAM 20MHz CH-Low, 1 RB



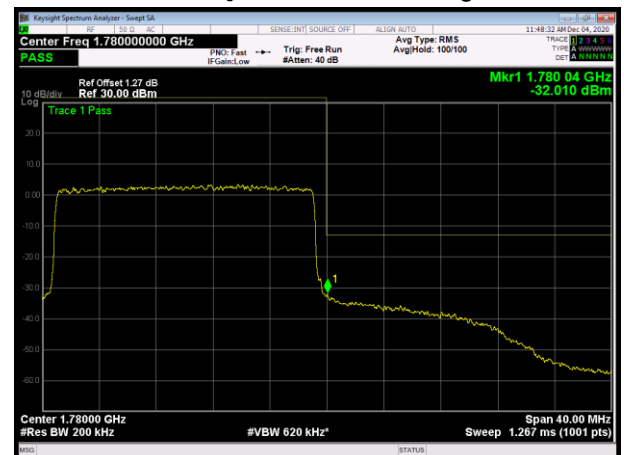
LTE Band 66 16QAM 20MHz CH-High, 1 RB



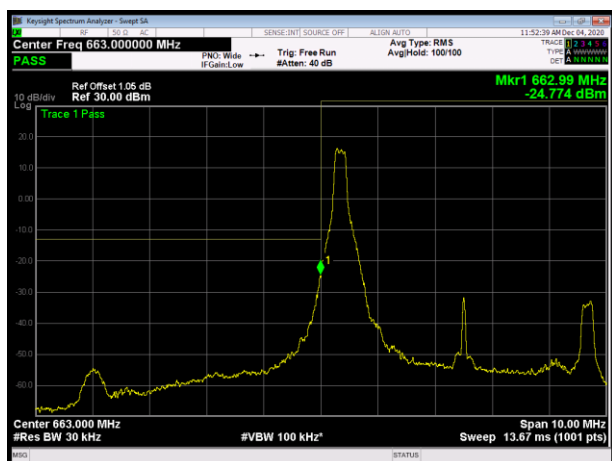
LTE Band 66 16QAM 20MHz CH-Low, 100%RB



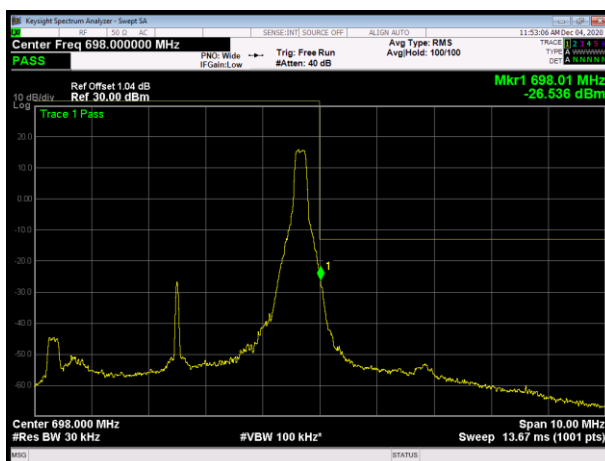
LTE Band 66 16QAM 20MHz CH-High, 100%RB



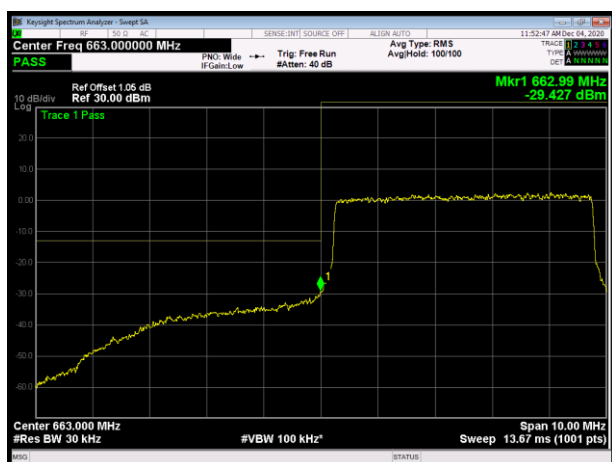
LTE Band 71 QPSK 5MHz CH-Low, 1 RB



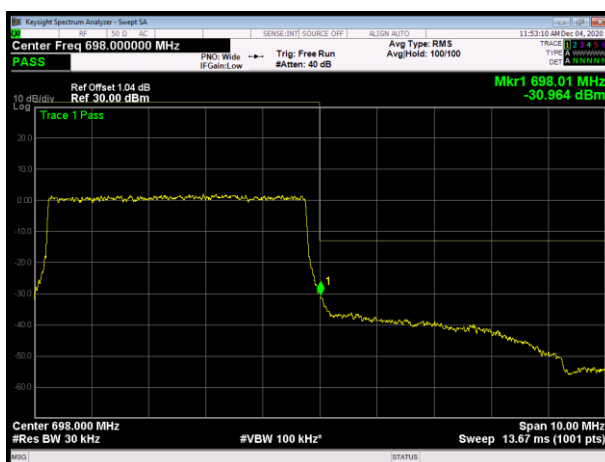
LTE Band 71 QPSK 5MHz CH-High, 1 RB



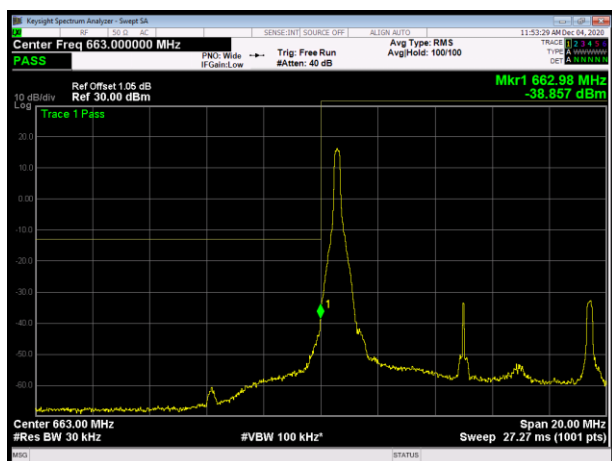
LTE Band 71 QPSK 5MHz CH-Low, 100%RB



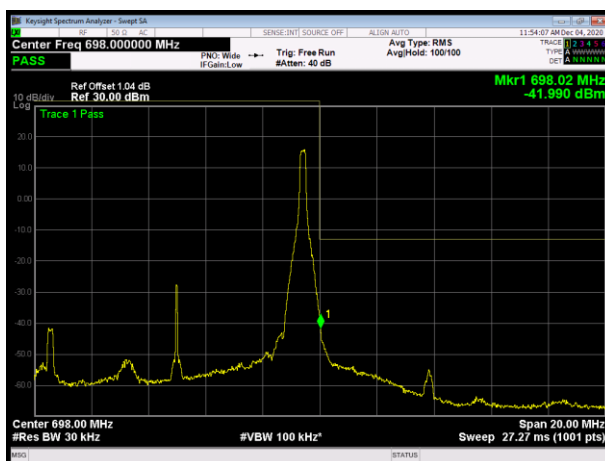
LTE Band 71 QPSK 5MHz CH-High, 100%RB



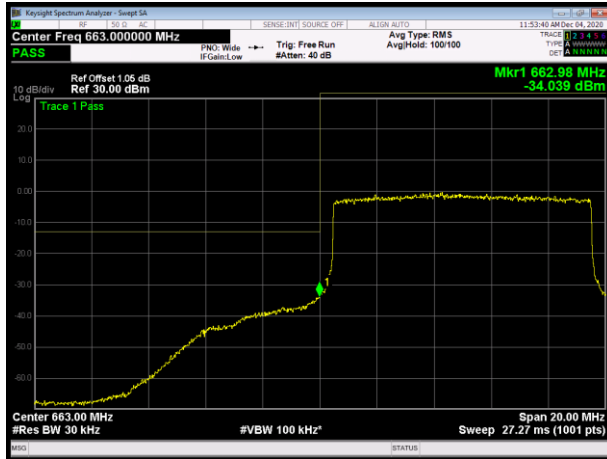
LTE Band 71 QPSK 10MHz CH-Low, 1 RB



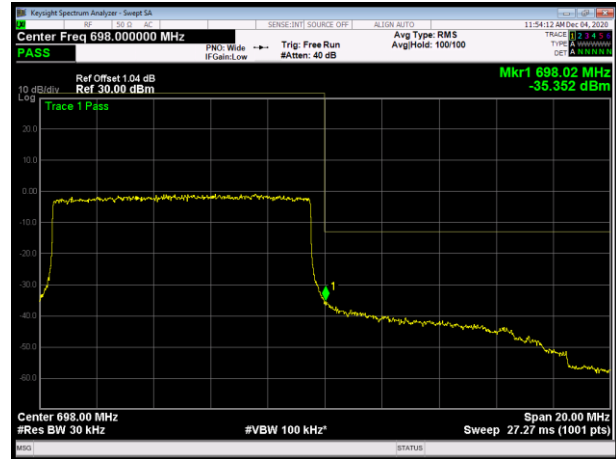
LTE Band 71 QPSK 10MHz CH-High, 1 RB



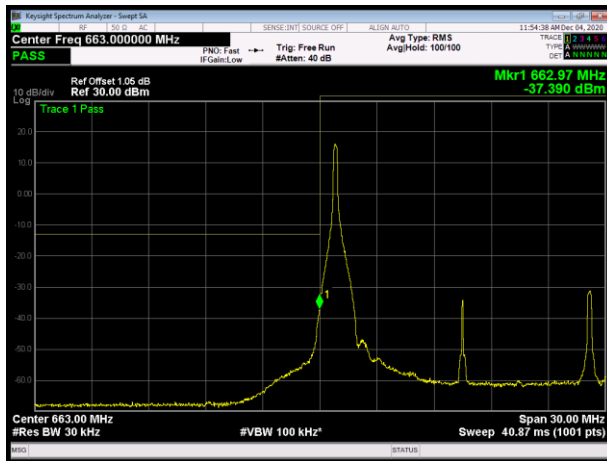
LTE Band 71 QPSK 10MHz CH-Low, 100%RB



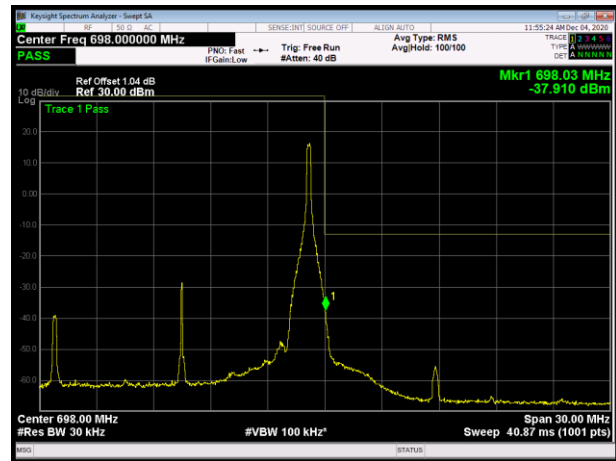
LTE Band 71 QPSK 10MHz CH-High, 100%RB



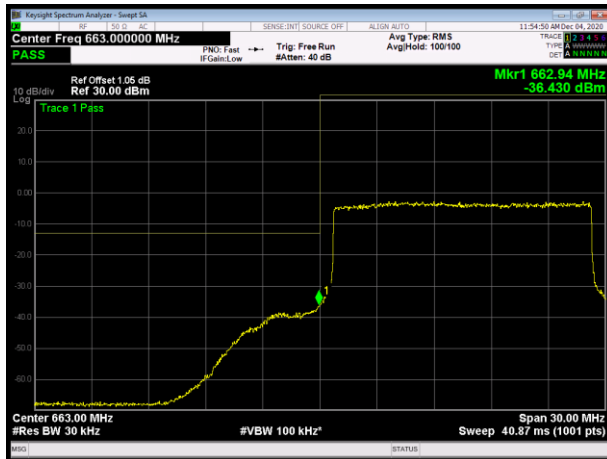
LTE Band 71 QPSK 15MHz CH-Low, 1 RB



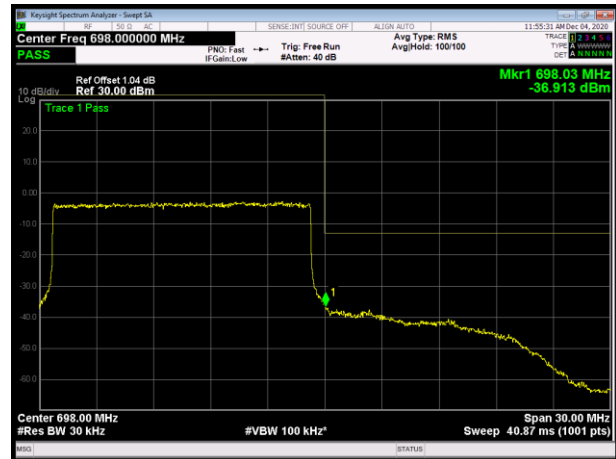
LTE Band 71 QPSK 15MHz CH-High, 1 RB



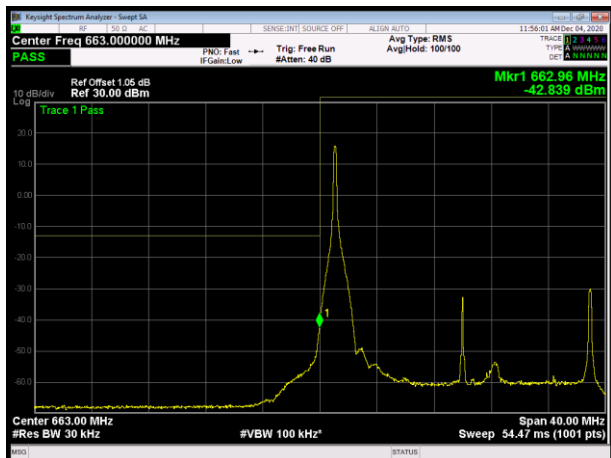
LTE Band 71 QPSK 15MHz CH-Low, 100%RB



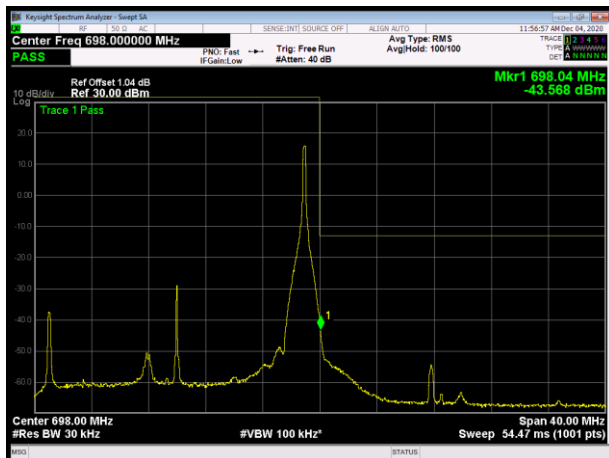
LTE Band 71 QPSK 15MHz CH-High, 100%RB



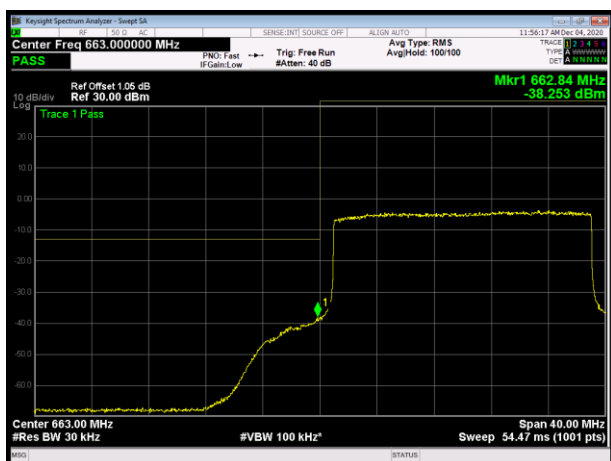
LTE Band 71 QPSK 20MHz CH-Low, 1 RB



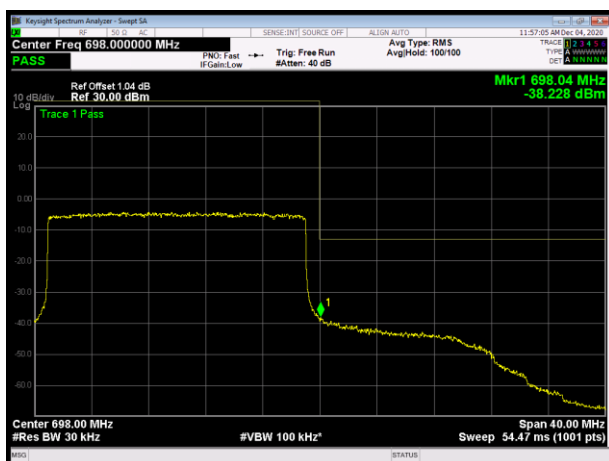
LTE Band 71 QPSK 20MHz CH-High, 1 RB



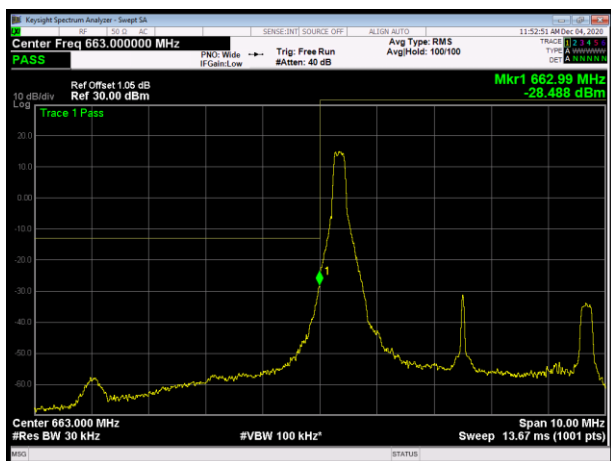
LTE Band 71 QPSK 20MHz CH-Low, 100%RB



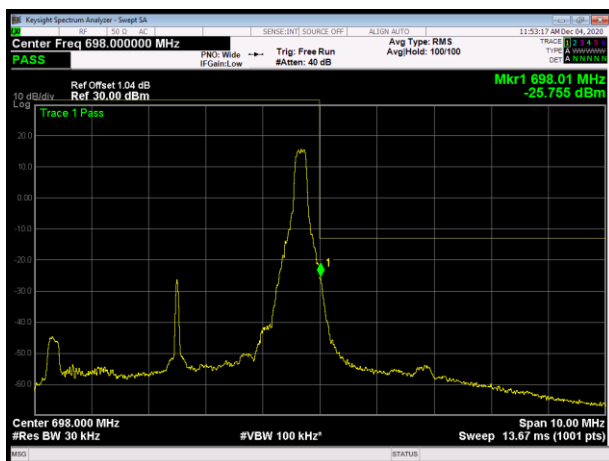
LTE Band 71 QPSK 20MHz CH-High, 100%RB



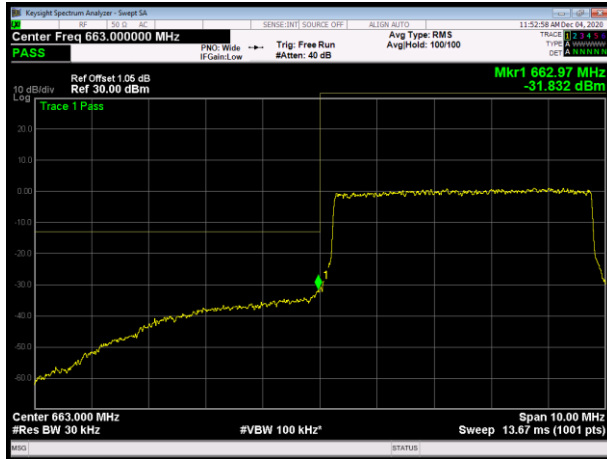
LTE Band 71 16QAM 5MHz CH-Low, 1 RB



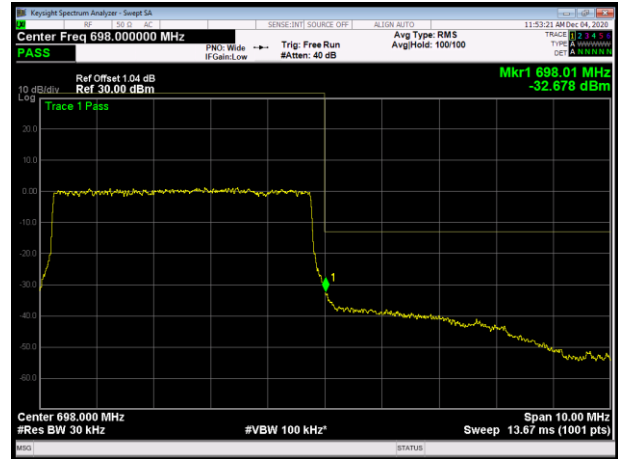
LTE Band 71 16QAM 5MHz CH-High, 1 RB



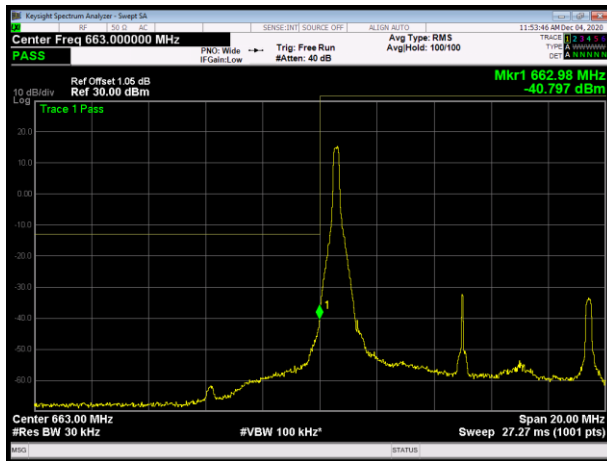
LTE Band 71 16QAM 5MHz CH-Low, 100%RB



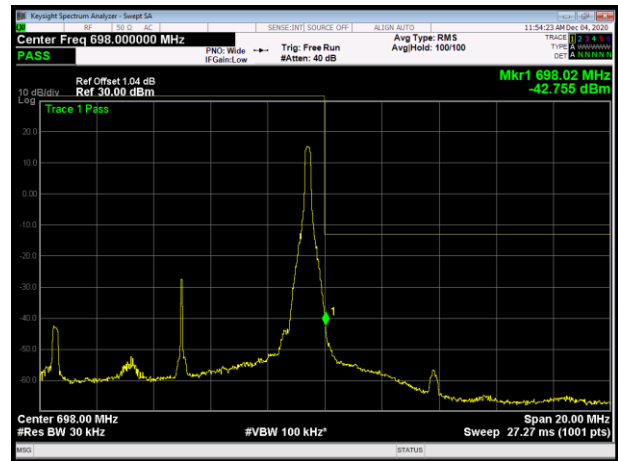
LTE Band 71 16QAM 5MHz CH-High, 100%RB



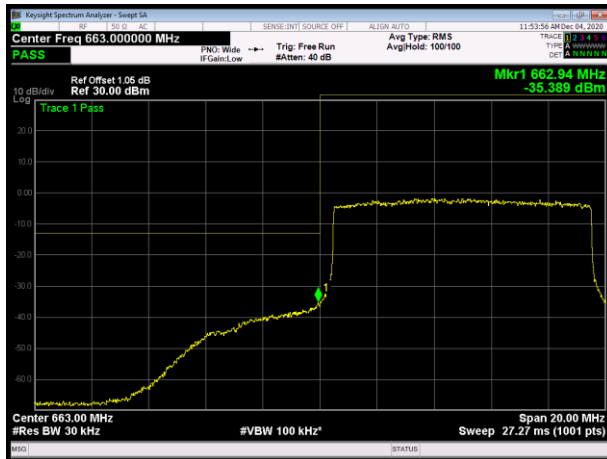
LTE Band 71 16QAM 10MHz CH-Low, 1 RB



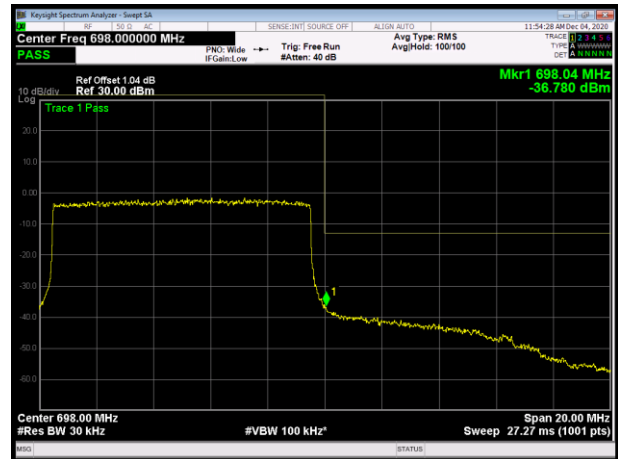
LTE Band 71 16QAM 10MHz CH-High, 1 RB



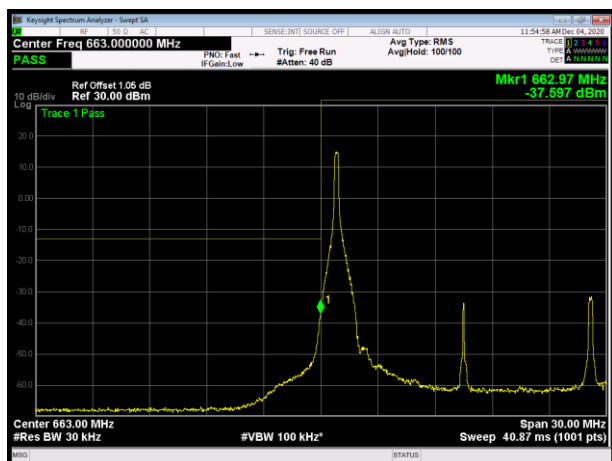
LTE Band 71 16QAM 10MHz CH-Low, 100%RB



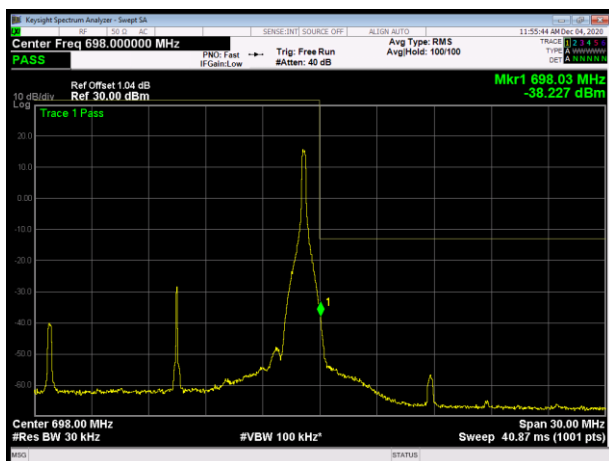
LTE Band 71 16QAM 10MHz CH-High, 100%RB



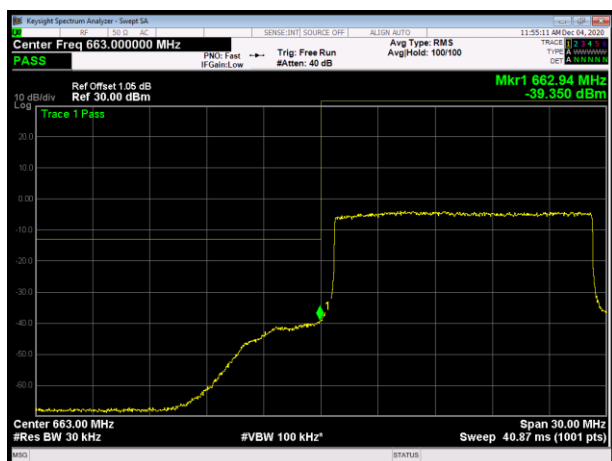
LTE Band 71 16QAM 15MHz CH-Low, 1 RB



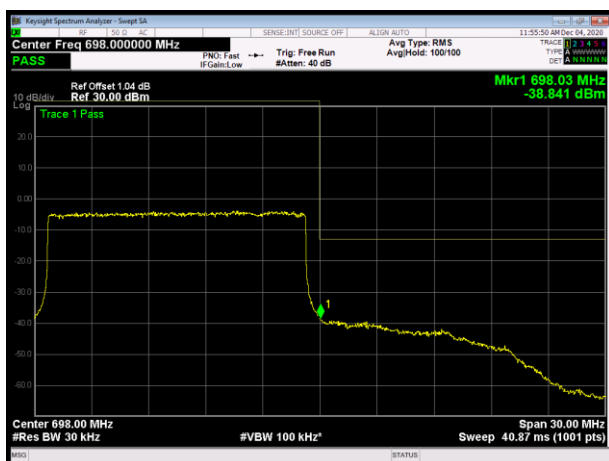
LTE Band 71 16QAM 15MHz CH-High, 1 RB



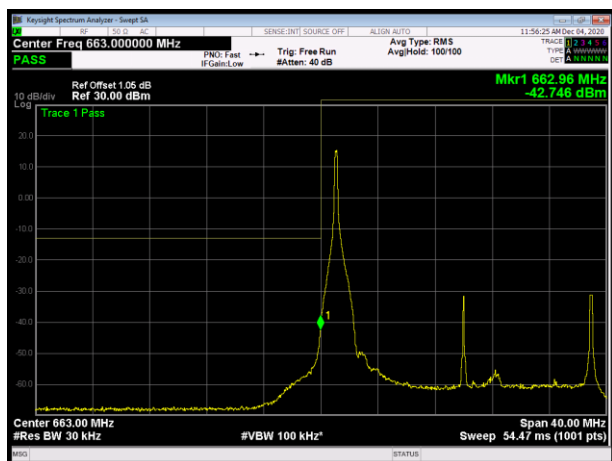
LTE Band 71 16QAM 15MHz CH-Low, 100%RB



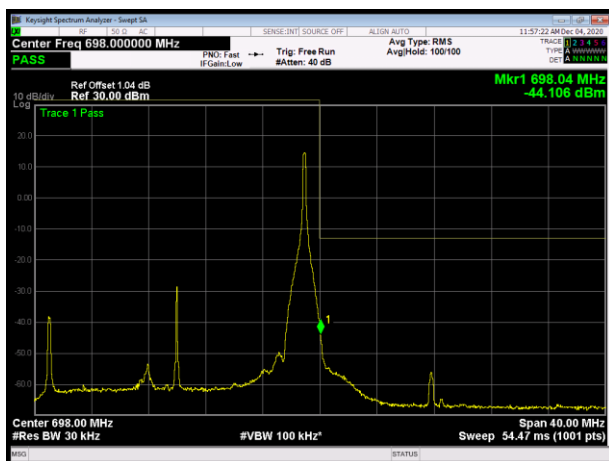
LTE Band 71 16QAM 15MHz CH-High, 100%RB



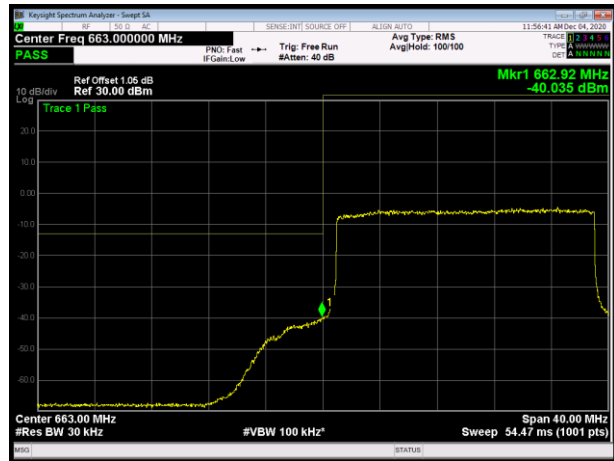
LTE Band 71 16QAM 20MHz CH-Low, 1 RB



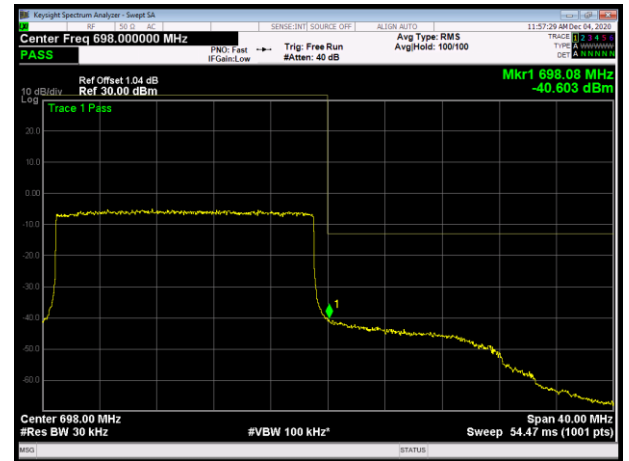
LTE Band 71 16QAM 20MHz CH-High, 1 RB



LTE Band 71 16QAM 20MHz CH-Low, 100%RB



LTE Band 71 16QAM 20MHz CH-High, 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	27.15	22.30	4.85	≤13	PASS
		20175	1732.5	27.21	22.40	4.81	≤13	PASS
		20393	1754.3	27.12	22.64	4.48	≤13	PASS
	3	19965	1711.5	27.30	22.33	4.97	≤13	PASS
		20175	1732.5	27.37	22.44	4.93	≤13	PASS
		20385	1753.5	27.37	22.67	4.70	≤13	PASS
	5	19975	1712.5	27.31	22.31	5.00	≤13	PASS
		20175	1732.5	27.33	22.43	4.90	≤13	PASS
		20375	1752.5	27.29	22.65	4.64	≤13	PASS
	10	20000	1715	27.34	22.39	4.95	≤13	PASS
		20175	1732.5	27.28	22.45	4.83	≤13	PASS
		20350	1750	27.31	22.69	4.62	≤13	PASS
	15	20025	1717.5	27.40	22.37	5.03	≤13	PASS
		20175	1732.5	27.27	22.41	4.86	≤13	PASS
		20325	1747.5	27.20	22.64	4.56	≤13	PASS
	20	20050	1720	27.26	22.34	4.92	≤13	PASS
		20175	1732.5	27.14	22.36	4.78	≤13	PASS
		20300	1745	27.23	22.60	4.63	≤13	PASS
16QAM	1.4	19957	1710.7	27.03	21.34	5.69	≤13	PASS
		20175	1732.5	27.07	21.48	5.59	≤13	PASS
		20393	1754.3	26.99	21.68	5.31	≤13	PASS
	3	19965	1711.5	27.15	21.37	5.78	≤13	PASS
		20175	1732.5	27.21	21.52	5.69	≤13	PASS
		20385	1753.5	27.21	21.71	5.50	≤13	PASS
	5	19975	1712.5	27.11	21.35	5.76	≤13	PASS
		20175	1732.5	27.16	21.48	5.68	≤13	PASS
		20375	1752.5	27.05	21.66	5.39	≤13	PASS
	10	20000	1715	27.14	21.38	5.76	≤13	PASS
		20175	1732.5	27.18	21.53	5.65	≤13	PASS
		20350	1750	27.14	21.70	5.44	≤13	PASS
	15	20025	1717.5	27.12	21.35	5.77	≤13	PASS
		20175	1732.5	27.08	21.48	5.60	≤13	PASS
		20325	1747.5	26.95	21.66	5.29	≤13	PASS

	20	20050	1720	27.04	21.33	5.71	≤13	PASS
		20175	1732.5	27.03	21.44	5.59	≤13	PASS
		20300	1745	27.03	21.63	5.40	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	27.71	22.61	5.10	≤13	PASS
		23095	707.5	27.72	22.57	5.15	≤13	PASS
		23173	715.3	27.70	22.65	5.05	≤13	PASS
	3	23025	700.5	27.83	22.64	5.19	≤13	PASS
		23095	707.5	27.82	22.61	5.21	≤13	PASS
		23165	714.5	27.87	22.68	5.19	≤13	PASS
	5	23035	701.5	27.87	22.68	5.19	≤13	PASS
		23095	707.5	27.75	22.58	5.17	≤13	PASS
		23155	713.5	27.86	22.65	5.21	≤13	PASS
	10	23060	704	27.83	22.65	5.18	≤13	PASS
		23095	707.5	27.60	22.53	5.07	≤13	PASS
		23130	711	27.76	22.61	5.15	≤13	PASS
16QAM	1.4	23017	699.7	27.73	21.71	6.02	≤13	PASS
		23095	707.5	27.57	21.63	5.94	≤13	PASS
		23173	715.3	27.73	21.84	5.89	≤13	PASS
	3	23025	700.5	27.78	21.74	6.04	≤13	PASS
		23095	707.5	27.71	21.67	6.04	≤13	PASS
		23165	714.5	27.89	21.87	6.02	≤13	PASS
	5	23035	701.5	27.70	21.72	5.98	≤13	PASS
		23095	707.5	27.59	21.63	5.96	≤13	PASS
		23155	713.5	27.81	21.82	5.99	≤13	PASS
	10	23060	704	27.68	21.70	5.98	≤13	PASS
		23095	707.5	27.50	21.59	5.91	≤13	PASS
		23130	711	27.76	21.79	5.97	≤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	27.40	22.51	4.89	≤13	PASS
		132322	1745	27.22	22.73	4.49	≤13	PASS
		132665	1779.3	27.31	22.34	4.97	≤13	PASS
	3	131987	1711.5	27.51	22.54	4.97	≤13	PASS

		132322	1745	27.47	22.77	4.70	≤13	PASS
		132657	1778.5	27.48	22.37	5.11	≤13	PASS
	5	131997	1712.5	27.52	22.52	5.00	≤13	PASS
		132322	1745	27.40	22.76	4.64	≤13	PASS
		132647	1777.5	27.38	22.35	5.03	≤13	PASS
	10	132022	1715	27.54	22.60	4.94	≤13	PASS
		132322	1745	27.34	22.78	4.56	≤13	PASS
		132622	1775	27.37	22.39	4.98	≤13	PASS
	15	132047	1717.5	27.57	22.58	4.99	≤13	PASS
		132322	1745	27.25	22.74	4.51	≤13	PASS
		132597	1772.5	27.36	22.34	5.02	≤13	PASS
	20	132072	1720	27.46	22.55	4.91	≤13	PASS
		132322	1745	27.25	22.69	4.56	≤13	PASS
		132572	1770	27.21	22.30	4.91	≤13	PASS
16QAM	1.4	131979	1710.7	27.34	21.65	5.69	≤13	PASS
		132322	1745	27.08	21.84	5.24	≤13	PASS
		132665	1779.3	27.26	21.45	5.81	≤13	PASS
	3	131987	1711.5	27.44	21.68	5.76	≤13	PASS
		132322	1745	27.35	21.88	5.47	≤13	PASS
		132657	1778.5	27.37	21.48	5.89	≤13	PASS
	5	131997	1712.5	27.41	21.66	5.75	≤13	PASS
		132322	1745	27.20	21.84	5.36	≤13	PASS
		132647	1777.5	27.23	21.43	5.80	≤13	PASS
	10	132022	1715	27.48	21.69	5.79	≤13	PASS
		132322	1745	27.25	21.89	5.36	≤13	PASS
		132622	1775	27.28	21.47	5.81	≤13	PASS
	15	132047	1717.5	27.39	21.66	5.73	≤13	PASS
		132322	1745	27.08	21.84	5.24	≤13	PASS
		132597	1772.5	27.17	21.43	5.74	≤13	PASS
	20	132072	1720	27.33	21.64	5.69	≤13	PASS
		132322	1745	27.16	21.80	5.36	≤13	PASS
		132572	1770	27.10	21.40	5.70	≤13	PASS

LTE Band 71								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
	5	133147	665.5	27.25	22.17	5.08	≤13	PASS
		133297	680.5	27.48	22.40	5.08	≤13	PASS
		133447	695.5	27.35	22.20	5.15	≤13	PASS

	10	133172	668	27.33	22.25	5.08	≤13	PASS
		133297	680.5	27.47	22.42	5.05	≤13	PASS
		133422	693	27.31	22.24	5.07	≤13	PASS
	15	133197	670.5	27.45	22.23	5.22	≤13	PASS
		133297	680.5	27.28	22.11	5.17	≤13	PASS
		133397	690.5	27.40	22.19	5.21	≤13	PASS
	20	133222	673	27.24	22.20	5.04	≤13	PASS
		133322	683	27.36	22.33	5.03	≤13	PASS
		133372	688	27.23	22.15	5.08	≤13	PASS
	5	133147	665.5	27.14	21.32	5.82	≤13	PASS
		133297	680.5	27.36	21.50	5.86	≤13	PASS
		133447	695.5	27.22	21.31	5.91	≤13	PASS
	10	133172	668	27.22	21.35	5.87	≤13	PASS
		133297	680.5	27.37	21.55	5.82	≤13	PASS
		133422	693	27.24	21.35	5.89	≤13	PASS
	15	133197	670.5	27.25	21.32	5.93	≤13	PASS
		133297	680.5	26.98	21.11	5.87	≤13	PASS
		133397	690.5	27.25	21.31	5.94	≤13	PASS
	20	133222	673	27.16	21.30	5.86	≤13	PASS
		133322	683	27.29	21.46	5.83	≤13	PASS
		133372	688	27.16	21.28	5.88	≤13	PASS

6.5 Frequency Stability

LTE Band 4					
(QPSK, 20MHz BANDWIDTH)					
Condition		1710	1755	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	1710.6538	1754.4302	1.44	0.00083
Extreme (85°C)		1710.6549	1754.4314	0.86	0.00050
Extreme (80°C)		1710.6516	1754.4275	-2.69	-0.00155
Extreme (70°C)		1710.6529	1754.4294	-1.82	-0.00105
Extreme (60°C)		1710.6515	1754.4285	2.10	0.00121
Extreme (50°C)		1710.6521	1754.4286	0.86	0.00050
Extreme (40°C)		1710.6534	1754.4299	-0.07	-0.00004
Extreme (30°C)		1710.6541	1754.4306	0.35	0.00020
Extreme (20°C)		1710.6523	1754.4285	-0.40	-0.00023
Extreme (10C)		1710.6532	1754.4297	-0.20	-0.00012
Extreme (0°C)		1710.6519	1754.4284	0.56	0.00032
Extreme (-10°C)		1710.6514	1754.4279	-2.60	-0.00150
Extreme (-20°C)		1710.6525	1754.4291	-0.42	-0.00024
Extreme (-30°C)		1710.6558	1754.4323	1.26	0.00073
Extreme (-40°C)		1710.6576	1754.4335	3.50	0.00202
25°C	LV	1710.6522	1754.4287	-1.15	-0.00066
	HV	1710.6528	1754.4293	0.97	0.00056
(16QAM, 20MHz BANDWIDTH)					
Condition		1710	1755	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	1710.6387	1754.5105	-6.99	-0.00403
Extreme (85°C)		1710.6369	1754.5094	3.06	0.00177
Extreme (80°C)		1710.6408	1754.5133	-3.56	-0.00205
Extreme (70°C)		1710.6389	1754.5114	-5.22	-0.00301
Extreme (60°C)		1710.6403	1754.5128	-3.92	-0.00226
Extreme (50°C)		1710.6397	1754.5122	-2.16	-0.00125
Extreme (40°C)		1710.6384	1754.5109	-2.64	-0.00152
Extreme (30°C)		1710.6377	1754.5102	0.55	0.00032
Extreme (20°C)		1710.6398	1754.5123	0.33	0.00019
Extreme (10C)		1710.6386	1754.5111	-2.00	-0.00115
Extreme (0°C)		1710.6399	1754.5124	0.06	0.00003
Extreme (-10°C)		1710.6404	1754.5129	4.07	0.00235
Extreme (-20°C)		1710.6393	1754.5118	-0.53	-0.00031
Extreme (-30°C)		1710.6363	1754.5085	2.99	0.00173
Extreme (-40°C)		1710.6348	1754.5073	0.55	0.00032
25°C	LV	1710.6396	1754.5121	0.15	0.00009
	HV	1710.6391	1754.5115	3.19	0.00184

LTE Band 12					
(QPSK, 10MHz BANDWIDTH)					
Condition		699	716	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	699.2572	715.7323	-0.91	-0.00109
Extreme (85°C)		699.2583	715.7311	-3.35	-0.00400
Extreme (80°C)		699.2544	715.7272	-3.47	-0.00415
Extreme (70°C)		699.2563	715.7291	-6.40	-0.00765
Extreme (60°C)		699.2549	715.7277	-5.64	-0.00674
Extreme (50°C)		699.2555	715.7283	-0.38	-0.00045
Extreme (40°C)		699.2568	715.7296	-1.02	-0.00122
Extreme (30°C)		699.2575	715.7303	-1.09	-0.00130
Extreme (20°C)		699.2554	715.7282	3.16	0.00378
Extreme (10C)		699.2566	715.7294	1.15	0.00137
Extreme (0°C)		699.2553	715.7281	-3.64	-0.00435
Extreme (-10°C)		699.2548	715.7276	-4.34	-0.00519
Extreme (-20°C)		699.2559	715.7287	-0.35	-0.00042
Extreme (-30°C)		699.2592	715.7324	2.28	0.00273
Extreme (-40°C)		699.2604	715.7332	-3.92	-0.00469
25°C	LV	699.2556	715.7284	-5.58	-0.00667
	HV	699.2562	715.7295	0.20	0.00024
(16QAM, 10MHz BANDWIDTH)					
Condition		699	716	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	699.3118	715.6805	0.85	0.00102
Extreme (85°C)		699.3107	715.6794	-0.85	-0.00102
Extreme (80°C)		699.3146	715.6833	-0.21	-0.00025
Extreme (70°C)		699.3127	715.6814	-1.63	-0.00195
Extreme (60°C)		699.3141	715.6828	-1.10	-0.00132
Extreme (50°C)		699.3135	715.6822	0.86	0.00103
Extreme (40°C)		699.3122	715.6809	-1.34	-0.00160
Extreme (30°C)		699.3115	715.6802	-3.09	-0.00369
Extreme (20°C)		699.3136	715.6823	-2.91	-0.00348
Extreme (10C)		699.3124	715.6811	-2.10	-0.00251
Extreme (0°C)		699.3137	715.6824	0.08	0.00010
Extreme (-10°C)		699.3142	715.6829	2.56	0.00306
Extreme (-20°C)		699.3131	715.6818	-1.21	-0.00145
Extreme (-30°C)		699.3098	715.6785	-1.31	-0.00157
Extreme (-40°C)		699.3086	715.6773	0.69	0.00082
25°C	LV	699.3134	715.6821	3.45	0.00412
	HV	699.3128	715.6815	4.51	0.00539

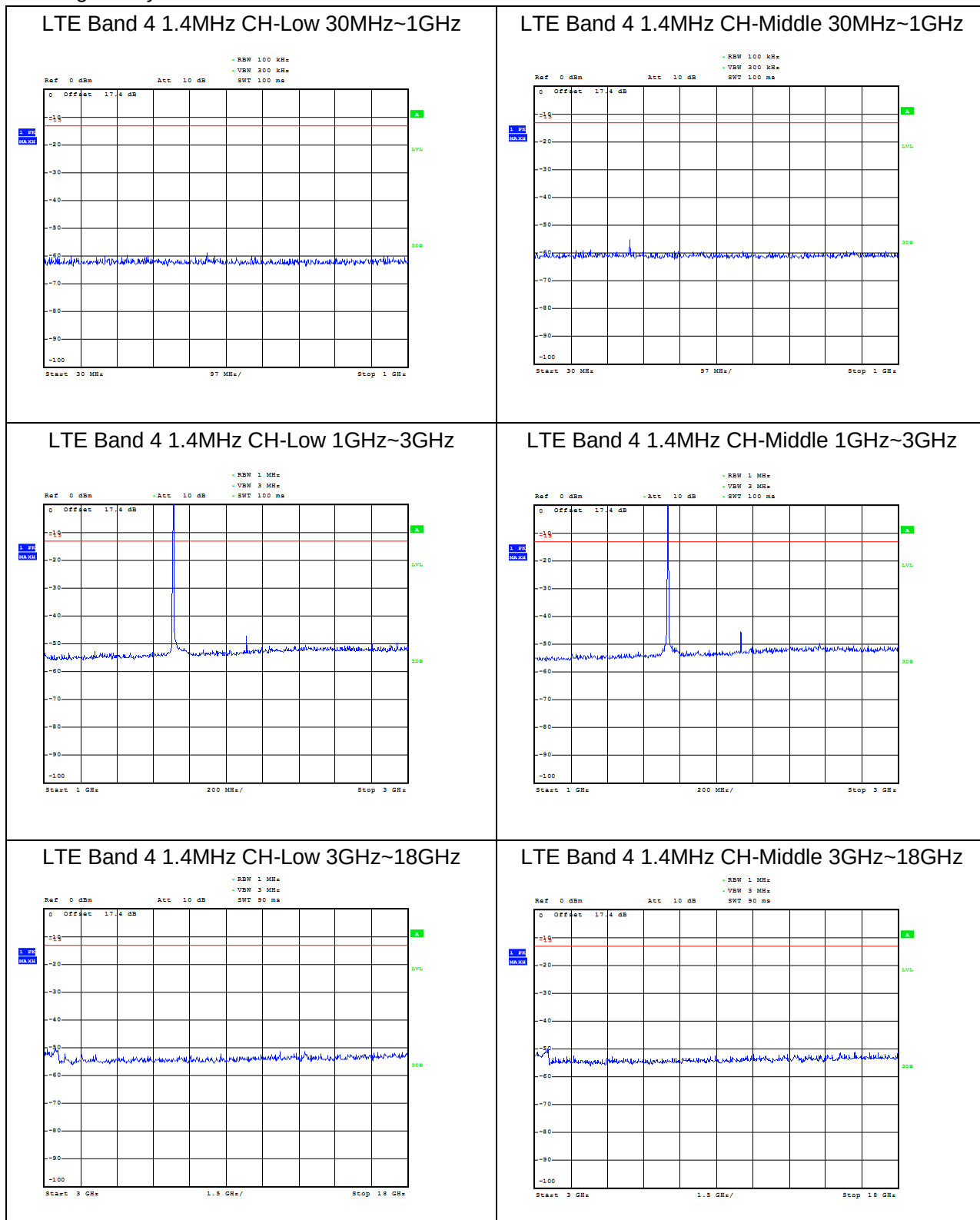
LTE Band 66					
(QPSK, 20MHz BANDWIDTH)					
Condition		1710	1780	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	1710.3406	1779.6709	3.51	0.00201
Extreme (85°C)		1710.3405	1779.6708	4.90	0.00281
Extreme (80°C)		1710.3403	1779.6703	-2.65	-0.00152
Extreme (70°C)		1710.3421	1779.6723	-1.64	-0.00094
Extreme (60°C)		1710.3418	1779.6721	3.59	0.00206
Extreme (50°C)		1710.3409	1779.6712	-7.62	-0.00437
Extreme (40°C)		1710.3394	1779.6697	-2.49	-0.00143
Extreme (30°C)		1710.3413	1779.6716	-1.06	-0.00061
Extreme (20°C)		1710.3416	1779.6719	6.30	0.00361
Extreme (10°C)		1710.3401	1779.6704	-9.93	-0.00569
Extreme (0°C)		1710.3412	1779.6715	5.59	0.00320
Extreme (-10°C)		1710.3415	1779.6718	3.51	0.00201
Extreme (-20°C)		1710.3399	1779.6702	-9.02	-0.00517
Extreme (-30°C)		1710.3409	1779.6712	-7.21	-0.00413
Extreme (-40°C)		1710.3408	1779.6711	-8.13	-0.00466
25°C	LV	1710.3413	1779.6716	3.89	0.00223
	HV	1710.3407	1779.6713	6.47	0.00371
(16QAM, 20MHz BANDWIDTH)					
Condition		1710	1780	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	1710.4049	1779.7132	-1.97	-0.00113
Extreme (85°C)		1710.4051	1779.7131	-2.98	-0.00171
Extreme (80°C)		1710.4069	1779.7131	-6.40	-0.00367
Extreme (70°C)		1710.4047	1779.7144	-4.42	-0.00253
Extreme (60°C)		1710.4042	1779.7145	0.08	0.00005
Extreme (50°C)		1710.4046	1779.7135	-0.67	-0.00038
Extreme (40°C)		1710.4061	1779.7123	-8.29	-0.00475
Extreme (30°C)		1710.4042	1779.7139	-1.03	-0.00059
Extreme (20°C)		1710.4039	1779.7142	0.28	0.00016
Extreme (10°C)		1710.4054	1779.7127	-4.34	-0.00249
Extreme (0°C)		1710.4043	1779.7138	-2.64	-0.00151
Extreme (-10°C)		1710.4043	1779.7141	-2.85	-0.00163
Extreme (-20°C)		1710.4056	1779.7125	-6.34	-0.00363
Extreme (-30°C)		1710.4046	1779.7135	-2.06	-0.00118
Extreme (-40°C)		1710.4047	1779.7134	-5.29	-0.00303
25°C	LV	1710.4042	1779.7139	-3.54	-0.00203
	HV	1710.4048	1779.7133	-7.00	-0.00401

LTE Band 71					
(QPSK, 20MHz BANDWIDTH)					
Condition		663	698	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	663.5332	697.4977	4.02	0.00230
Extreme (85°C)		663.6528	697.6175	6.14	0.00352
Extreme (80°C)		663.5318	697.4965	-2.23	-0.00128
Extreme (70°C)		663.5432	697.5079	-1.56	-0.00089
Extreme (60°C)		663.5391	697.5038	6.49	0.00372
Extreme (50°C)		663.5361	697.5008	-5.08	-0.00291
Extreme (40°C)		663.5318	697.4965	-1.82	-0.00104
Extreme (30°C)		663.5432	697.5079	-0.55	-0.00032
Extreme (20°C)		663.5391	697.5038	7.17	0.00411
Extreme (10°C)		663.5321	697.4968	-9.32	-0.00534
Extreme (0°C)		663.5375	697.5022	7.40	0.00424
Extreme (-10°C)		663.5387	697.5034	4.78	0.00274
Extreme (-20°C)		663.5345	697.4992	-8.13	-0.00466
Extreme (-30°C)		663.5361	697.5008	-6.09	-0.00349
Extreme (-40°C)		663.5311	697.4958	-7.05	-0.00404
25°C	LV	663.5326	697.4973	6.36	0.00364
	HV	663.5361	697.5008	7.38	0.00423
(16QAM, 20MHz BANDWIDTH)					
Condition		663	698	Delta(Hz)	Frequency Stability(ppm)
Temperature	Voltage	F low@-13dBm(MHz)	F high@-13dBm(MHz)		
Normal (25°C)	Normal	663.5258	697.4905	0.97	0.00056
Extreme (85°C)		663.4064	697.3707	3.93	0.00225
Extreme (80°C)		663.5282	697.4926	1.26	0.00072
Extreme (70°C)		663.5161	697.4808	3.21	0.00184
Extreme (60°C)		663.5199	697.4846	4.58	0.00262
Extreme (50°C)		663.5227	697.4874	2.22	0.00127
Extreme (40°C)		663.5273	697.4917	1.50	0.00086
Extreme (30°C)		663.5156	697.4803	0.31	0.00018
Extreme (20°C)		663.5197	697.4844	3.52	0.00202
Extreme (10°C)		663.5267	697.4914	-1.33	-0.00076
Extreme (0°C)		663.5213	697.4867	1.95	0.00112
Extreme (-10°C)		663.5201	697.4848	1.46	0.00084
Extreme (-20°C)		663.5243	697.4891	0.63	0.00036
Extreme (-30°C)		663.5227	697.4874	2.25	0.00129
Extreme (-40°C)		663.5277	697.4924	2.07	0.00119
25°C	LV	663.5262	697.4909	2.96	0.00170
	HV	663.5227	697.4874	0.84	0.00048

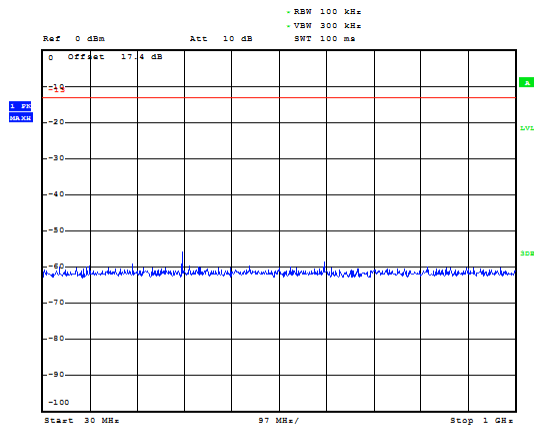
6.6 Spurious Emissions at Antenna Terminals

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.

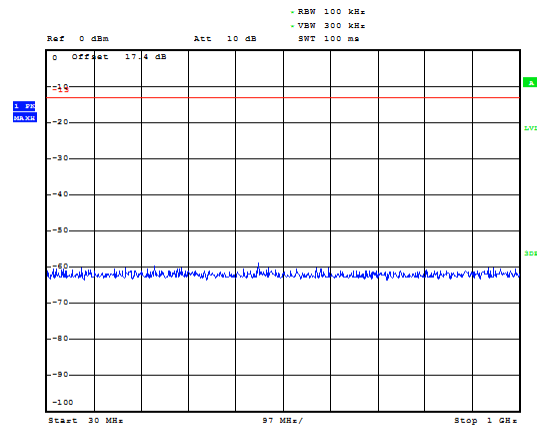
The signal beyond the limit is carrier.



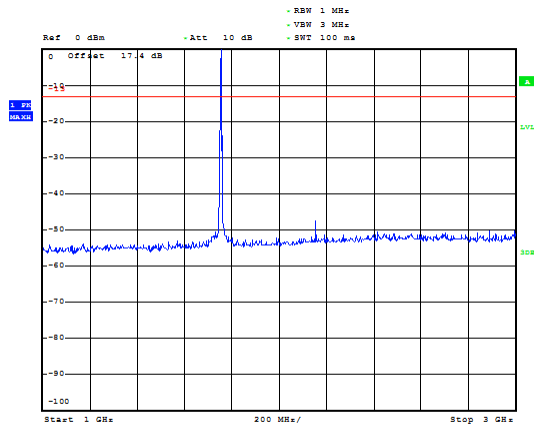
LTE Band 4 1.4MHz CH-High 30MHz~1GHz



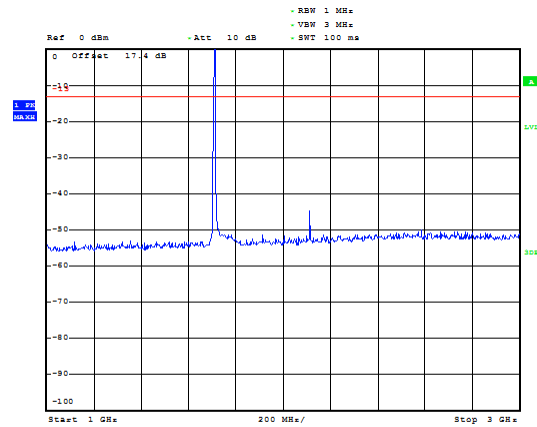
LTE Band 4 3MHz CH-Low 30MHz~1GHz



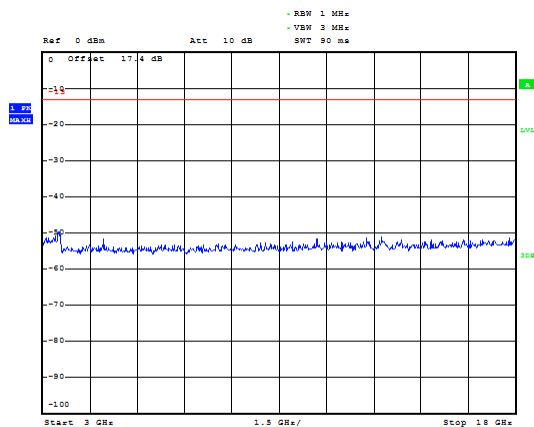
LTE Band 4 1.4MHz CH-High 1GHz~3GHz



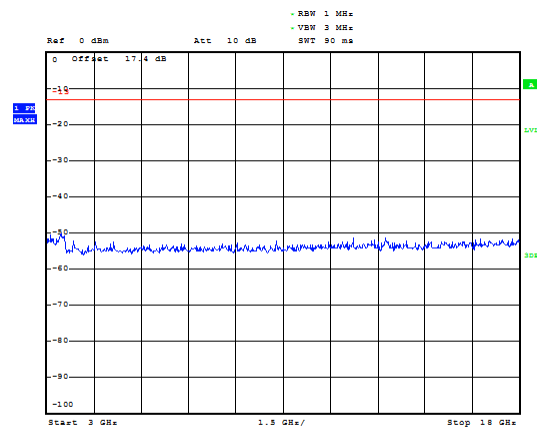
LTE Band 4 3MHz CH-Low 1GHz~3GHz



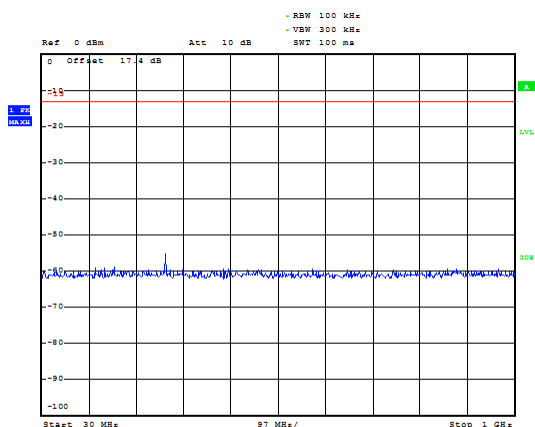
LTE Band 4 1.4MHz CH-High 3GHz~18GHz



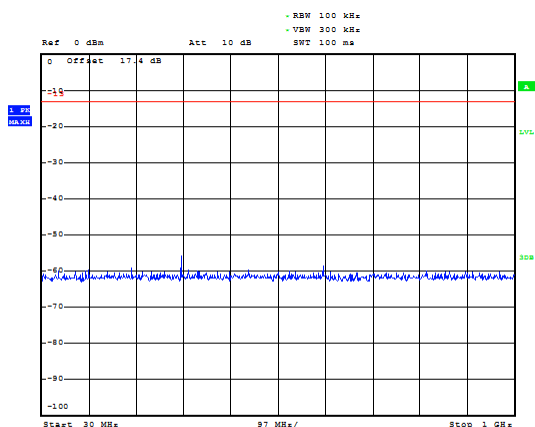
LTE Band 4 3MHz CH-Low 3GHz~18GHz



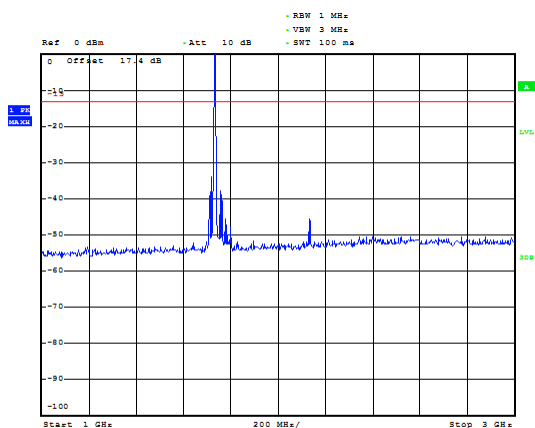
LTE Band 4 3MHz CH-Middle 30MHz~1GHz



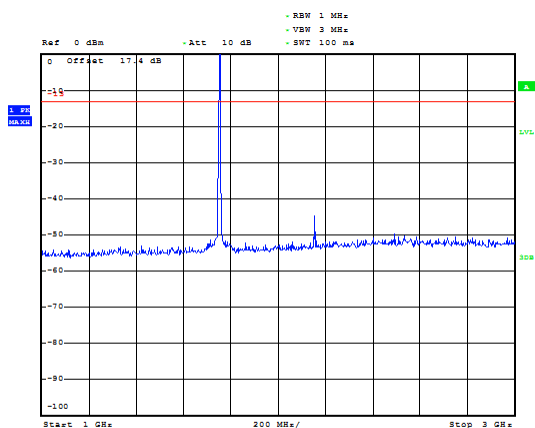
LTE Band 4 3MHz CH-High 30MHz~1GHz



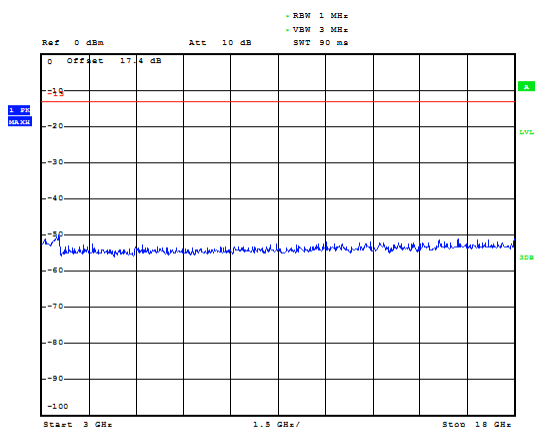
LTE Band 4 3MHz CH-Middle 1GHz~3GHz



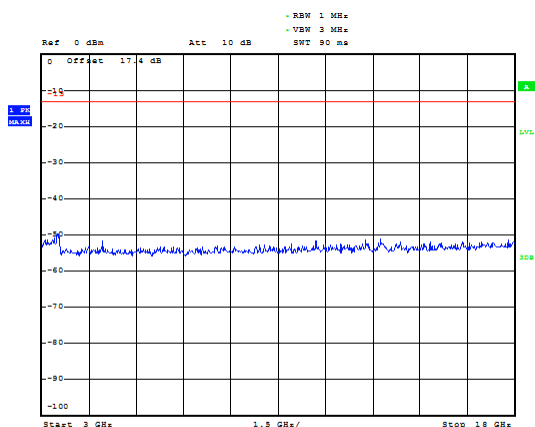
LTE Band 4 3MHz CH-High 1GHz~3GHz



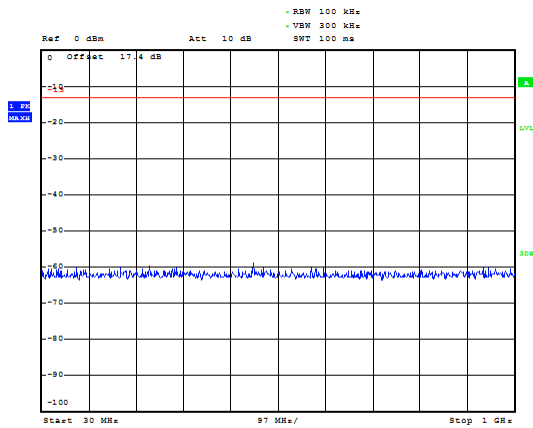
LTE Band 4 3MHz CH-Middle 3GHz~18GHz



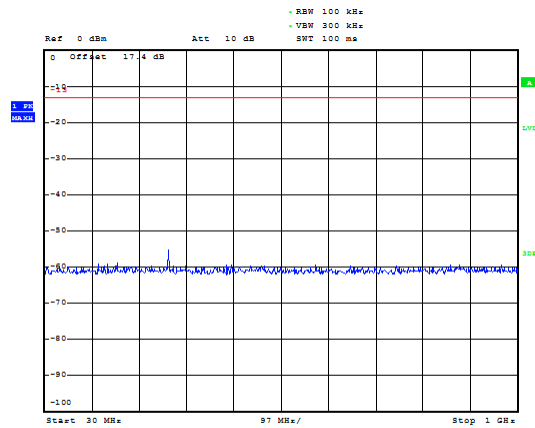
LTE Band 4 3MHz CH-High 3GHz~18GHz



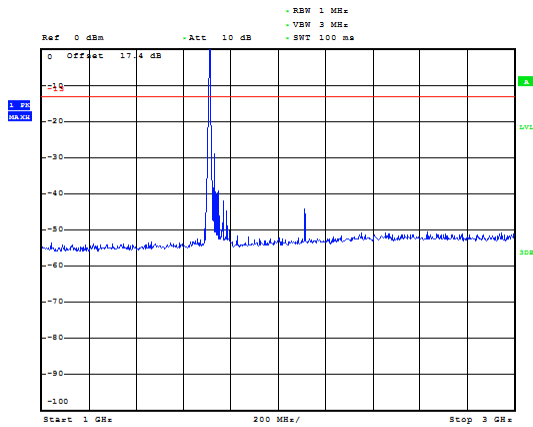
LTE Band 4 5MHz CH-Low 30MHz~1GHz



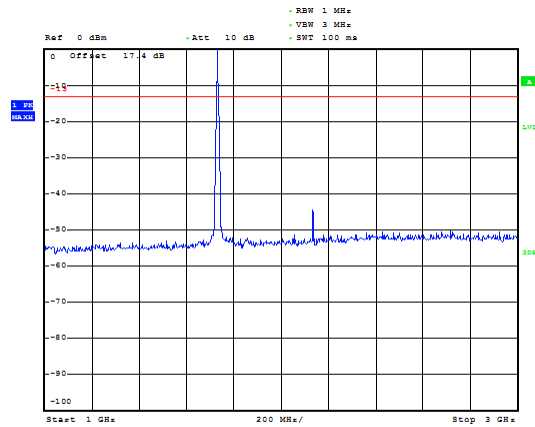
LTE Band 4 5MHz CH-Middle 30MHz~1GHz



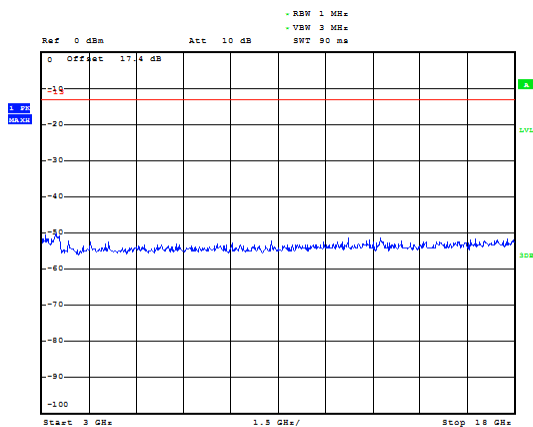
LTE Band 4 5MHz CH-Low 1GHz~3GHz



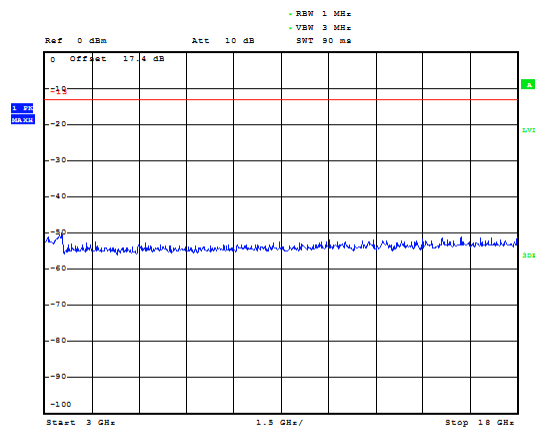
LTE Band 4 5MHz CH-Middle 1GHz~3GHz



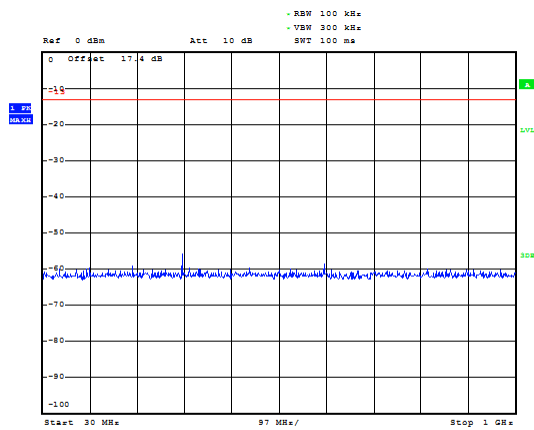
LTE Band 4 5MHz CH-Low 3GHz~18GHz



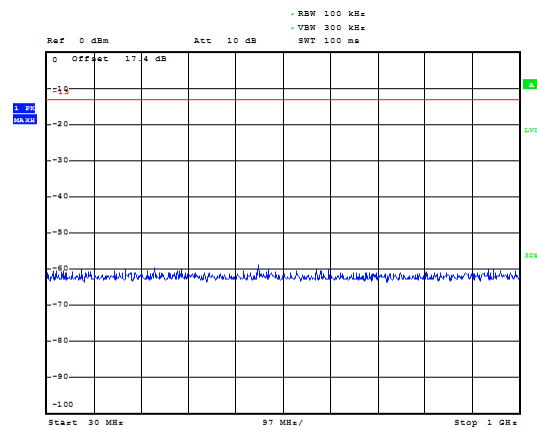
LTE Band 4 5MHz CH-Middle 3GHz~18GHz



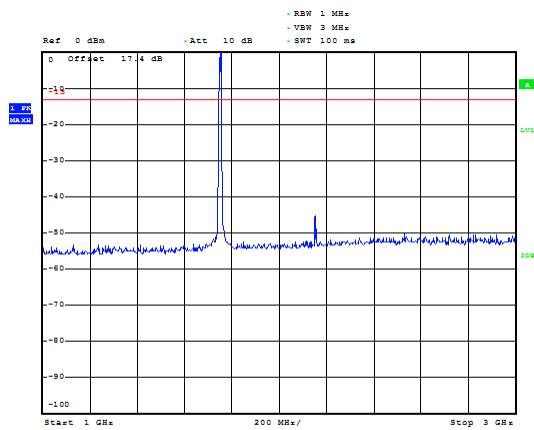
LTE Band 4 5MHz CH-High 30MHz~1GHz



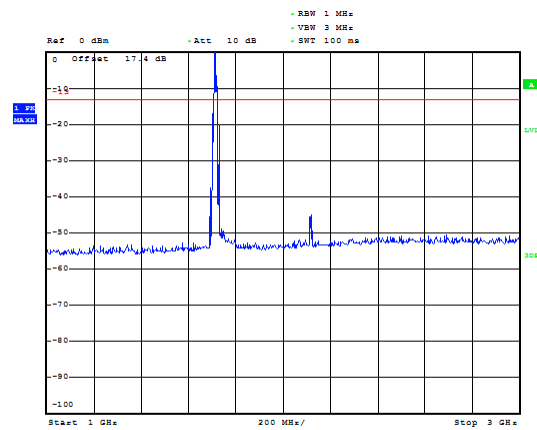
LTE Band 4 10MHz CH-Low 30MHz~1GHz



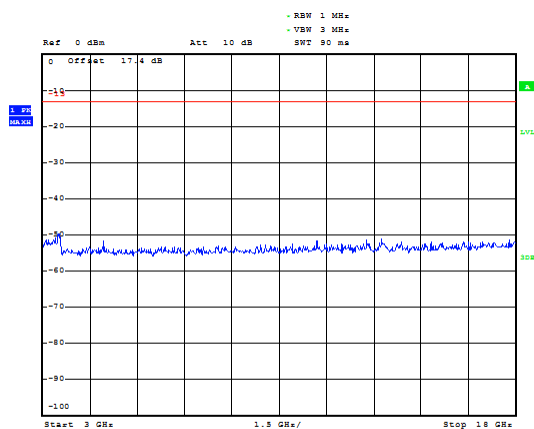
LTE Band 4 5MHz CH-High 1GHz~3GHz



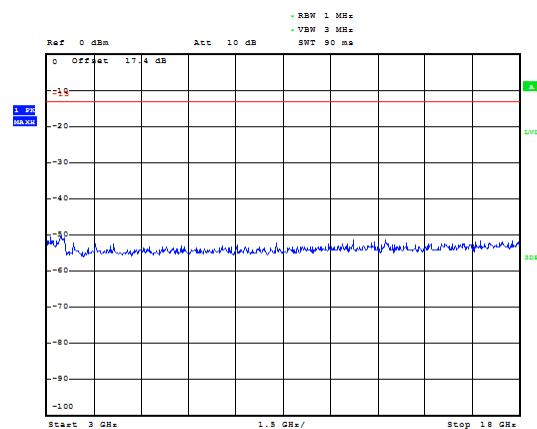
LTE Band 4 10MHz CH-Low 1GHz~3GHz



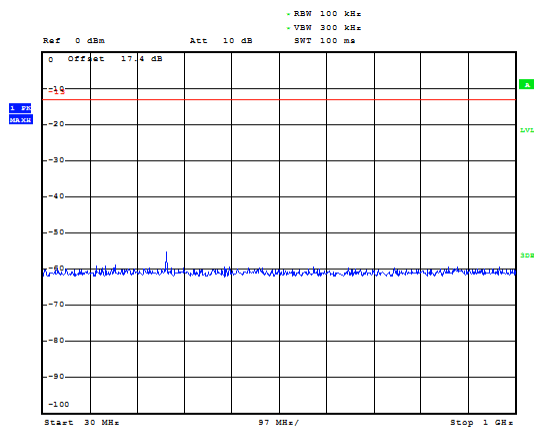
LTE Band 4 5MHz CH-High 3GHz~18GHz



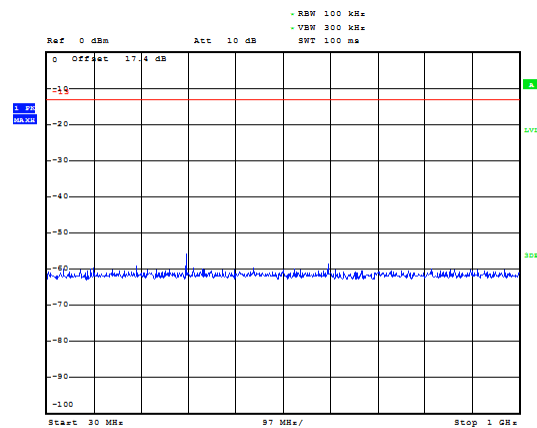
LTE Band 4 10MHz CH-Low 3GHz~18GHz



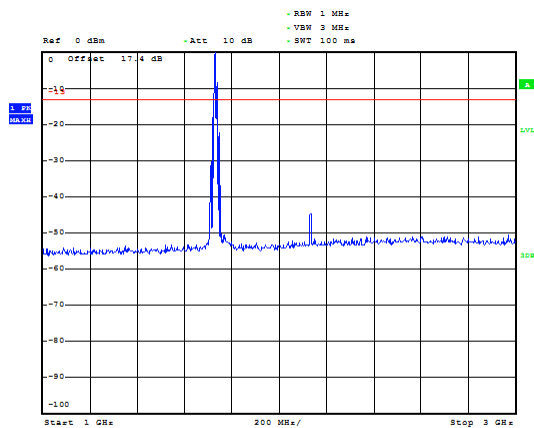
LTE Band 4 10MHz CH-Middle 30MHz~1GHz



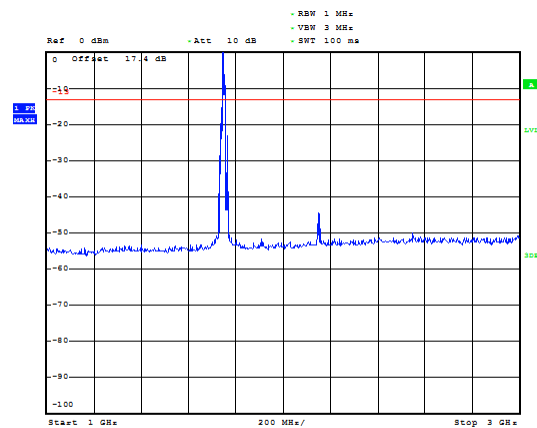
LTE Band 4 10MHz CH-High 30MHz~1GHz



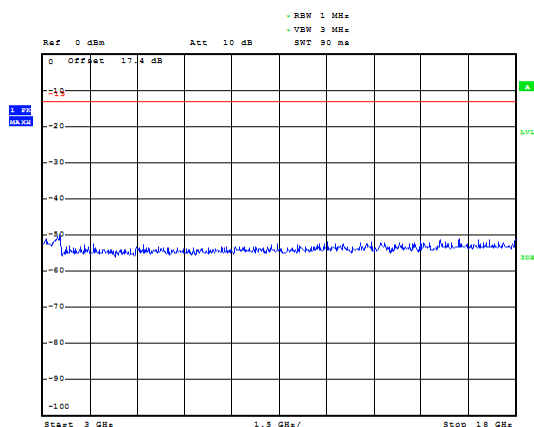
LTE Band 4 10MHz CH-Middle 1GHz~3GHz



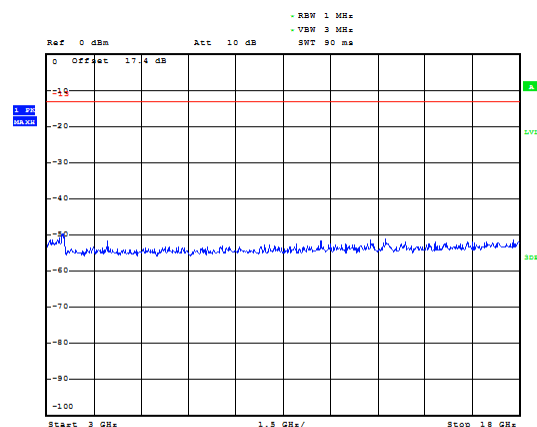
LTE Band 4 10MHz CH-High 1GHz~3GHz



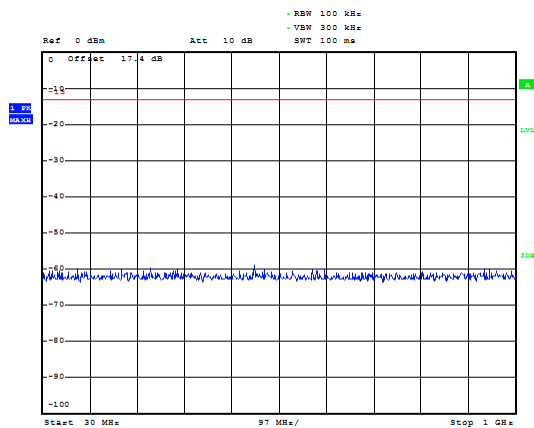
LTE Band 4 10MHz CH-Middle 3GHz~18GHz



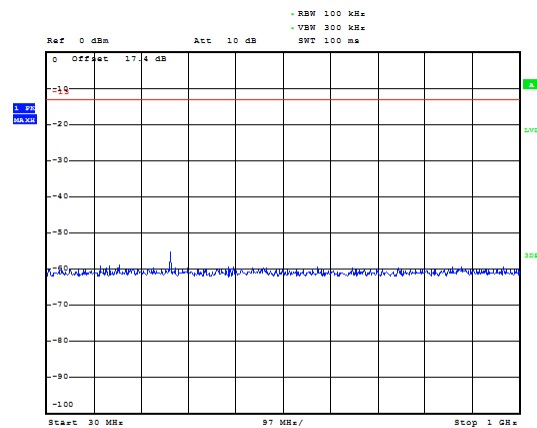
LTE Band 4 10MHz CH-High 3GHz~18GHz



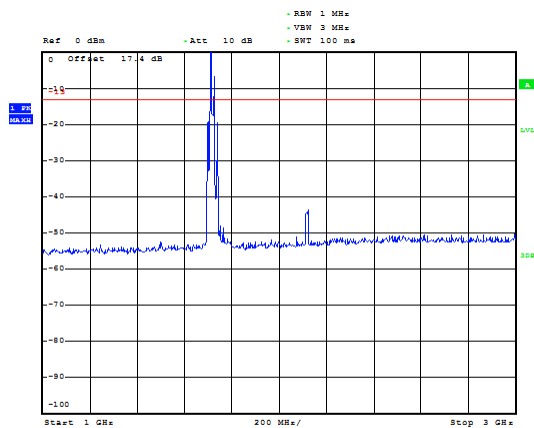
LTE Band 4 15MHz CH-Low 30MHz~1GHz



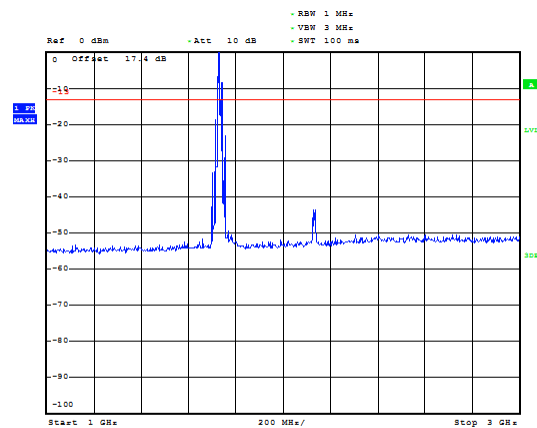
LTE Band 4 15MHz CH-Middle 30MHz~1GHz



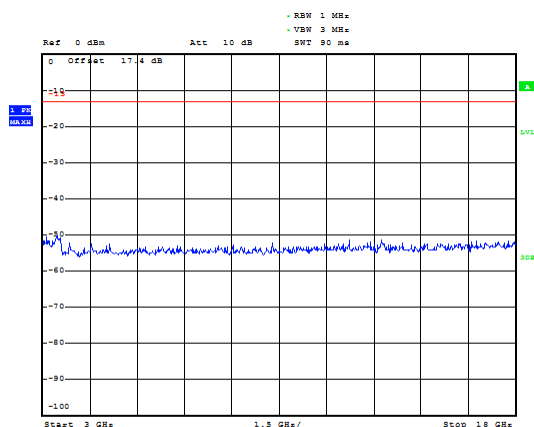
LTE Band 4 15MHz CH-Low 1GHz~3GHz



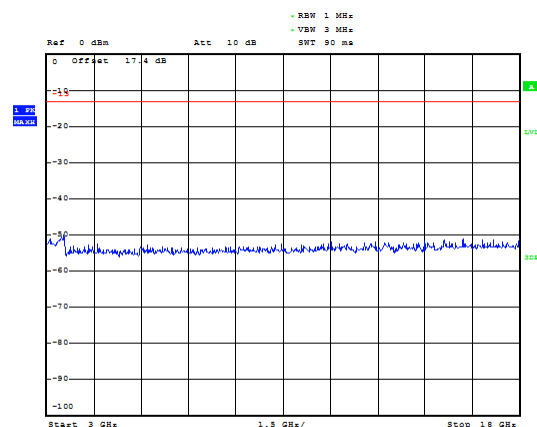
LTE Band 4 15MHz CH-Middle 1GHz~3GHz



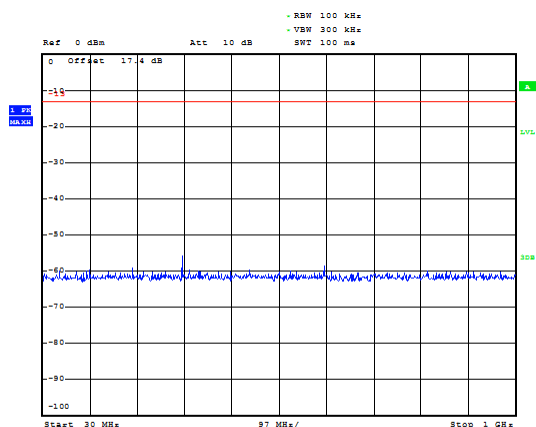
LTE Band 4 15MHz CH-Low 3GHz~18GHz



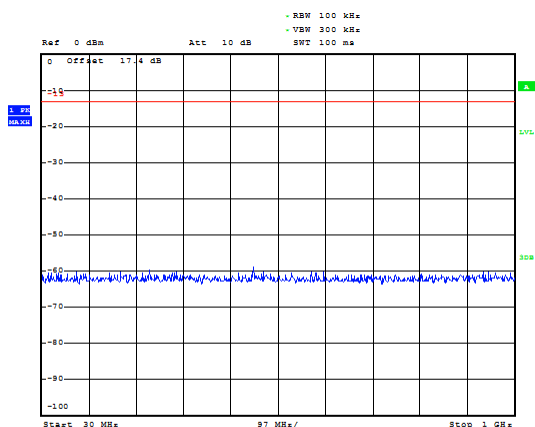
LTE Band 4 15MHz CH-Middle 3GHz~18GHz



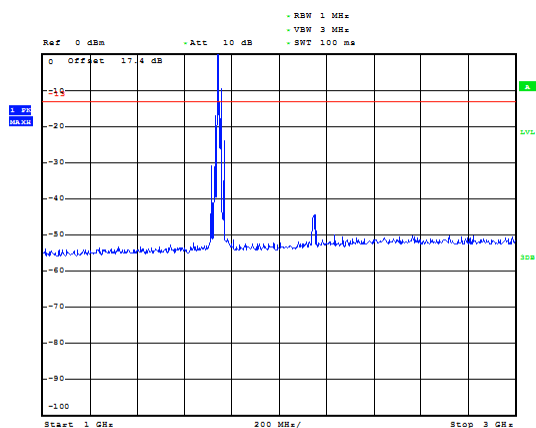
LTE Band 4 15MHz CH-High 30MHz~1GHz



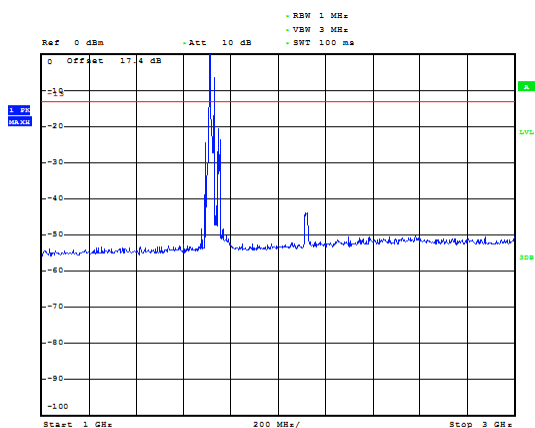
LTE Band 4 20MHz CH-Low 30MHz~1GHz



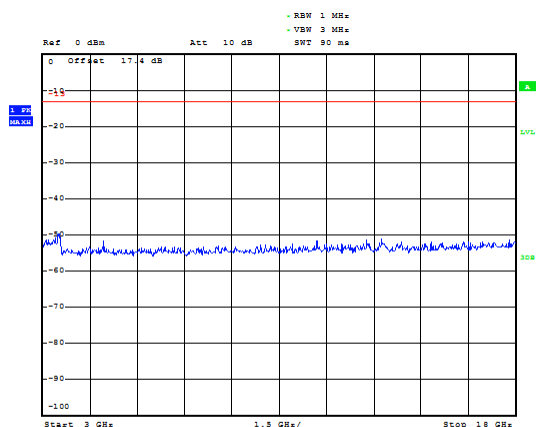
LTE Band 4 15MHz CH-High 1GHz~3GHz



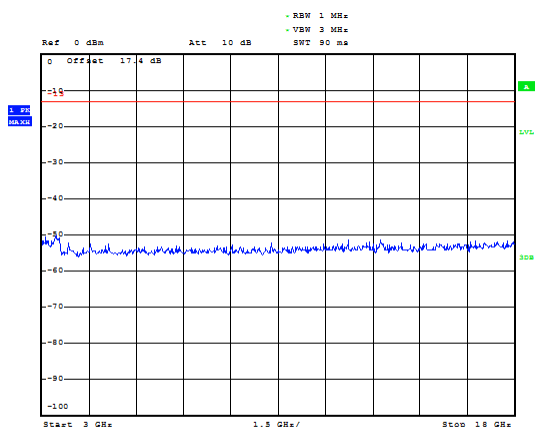
LTE Band 4 20MHz CH-Low 1GHz~3GHz



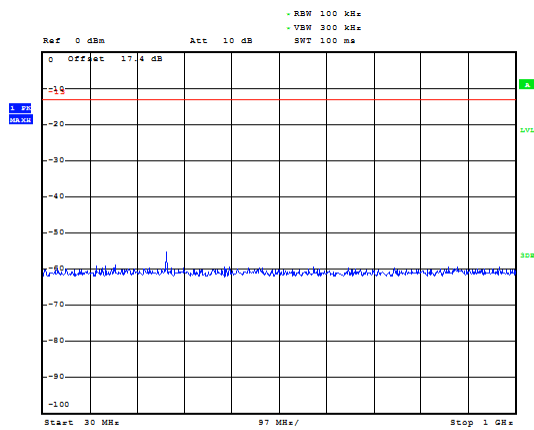
LTE Band 4 15MHz CH-High 3GHz~18GHz



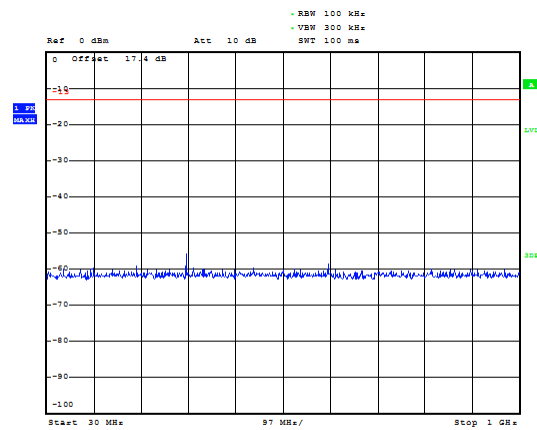
LTE Band 4 20MHz CH-Low 3GHz~18GHz



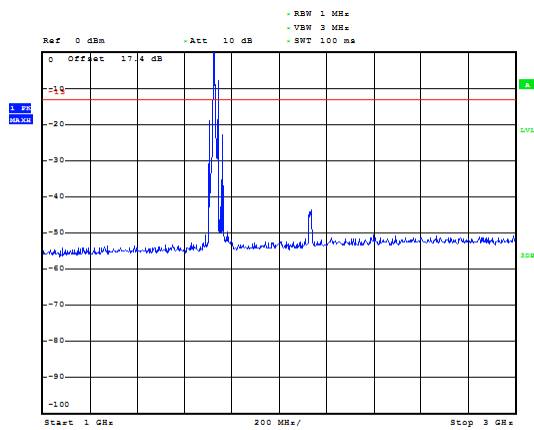
LTE Band 4 20MHz CH-Middle 30MHz~1GHz



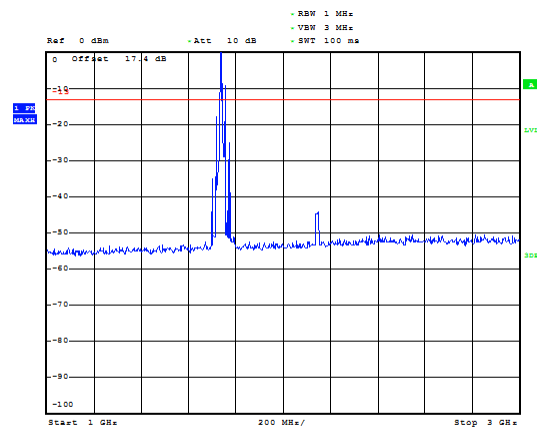
LTE Band 4 20MHz CH-High 30MHz~1GHz



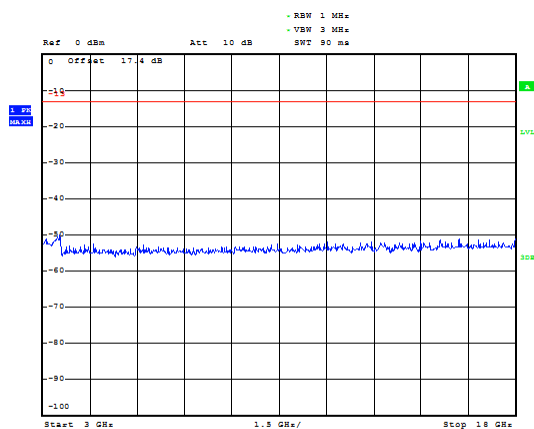
LTE Band 4 20MHz CH-Middle 1GHz~3GHz



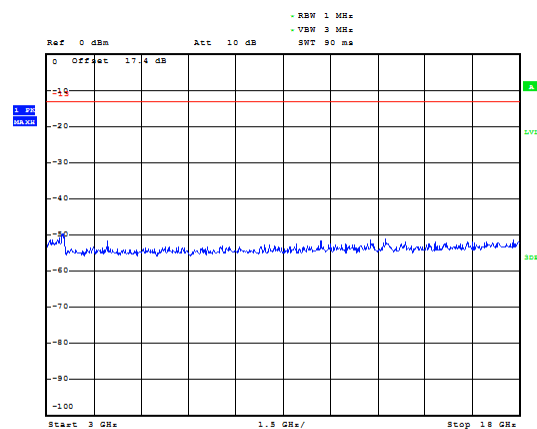
LTE Band 4 20MHz CH-High 1GHz~3GHz



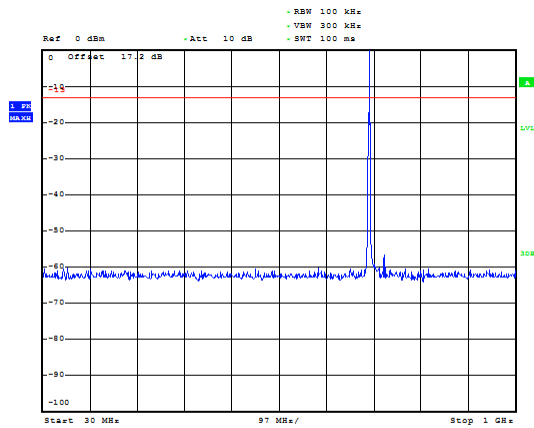
LTE Band 4 20MHz CH-Middle 3GHz~18GHz



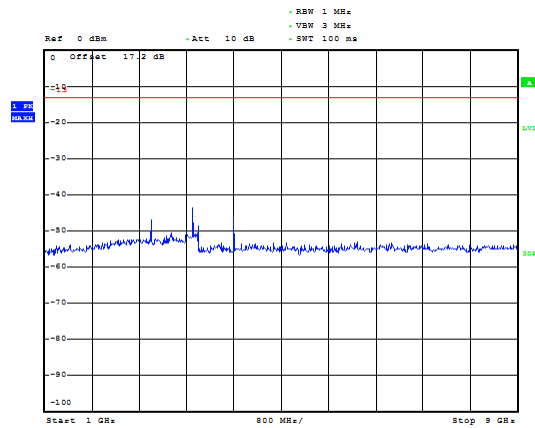
LTE Band 4 20MHz CH-High 3GHz~18GHz



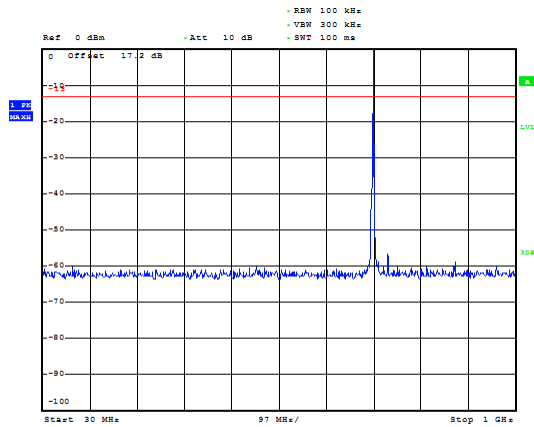
LTE Band 12 1.4MHz CH-Low 30MHz~1GHz



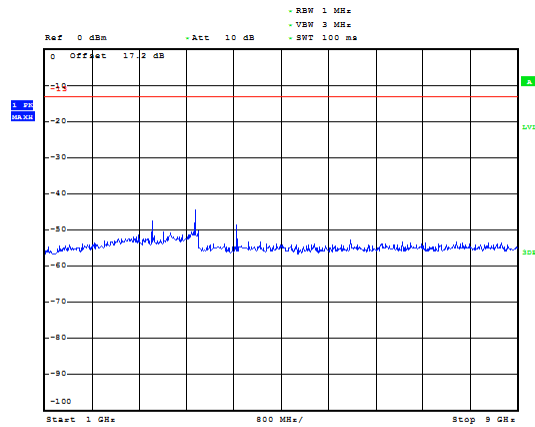
LTE Band 12 1.4MHz CH-Low 1GHz~9GHz



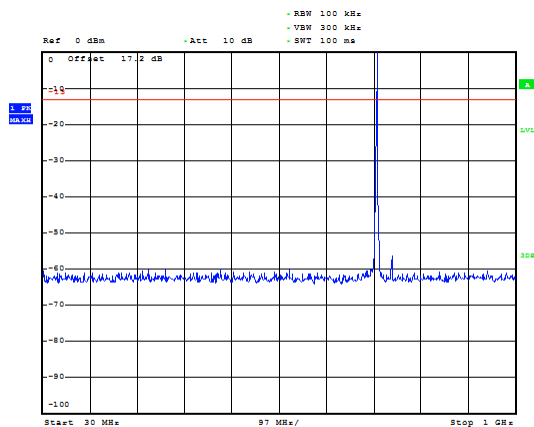
LTE Band 12 1.4MHz CH- Middle 30MHz~1GHz



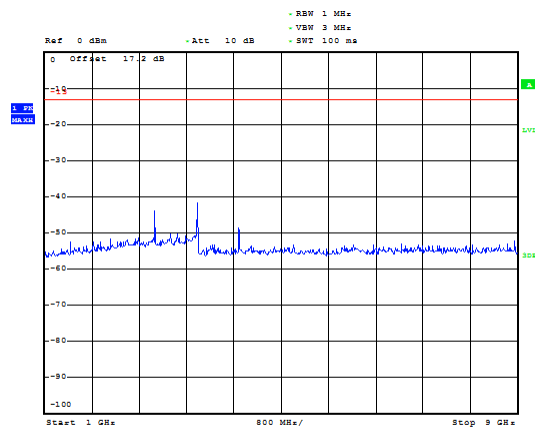
LTE Band 12 1.4MHz CH- Middle 1GHz~9GHz



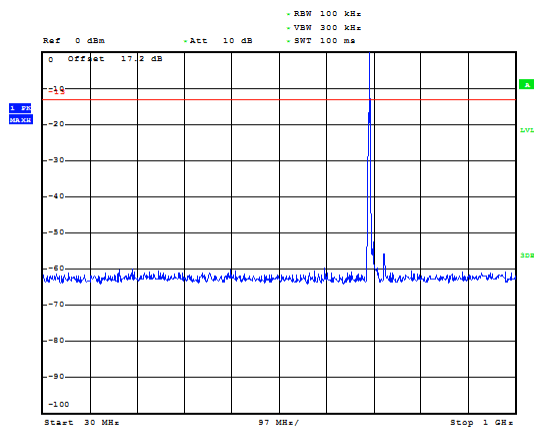
LTE Band 12 1.4MHz CH-High 30MHz~1GHz



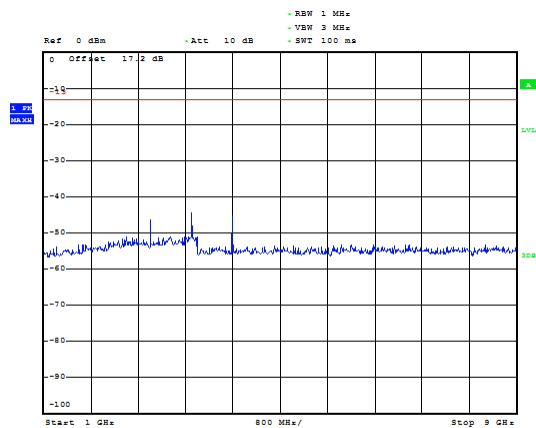
LTE Band 12 1.4MHz CH-High 1GHz~9GHz



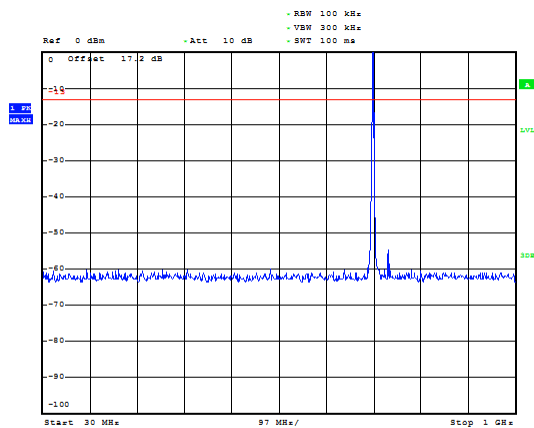
LTE Band 12 3MHz CH-Low 30MHz~1GHz



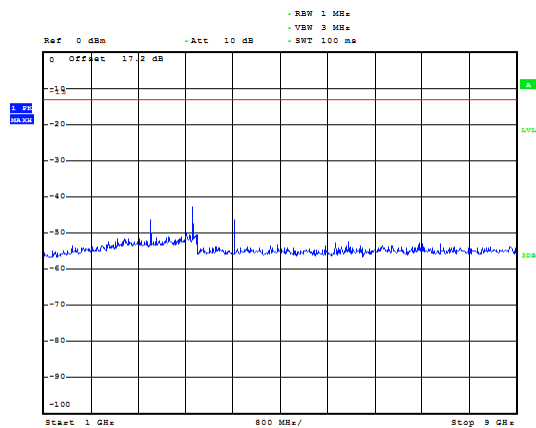
LTE Band 12 3MHz CH-Low 1GHz~9GHz



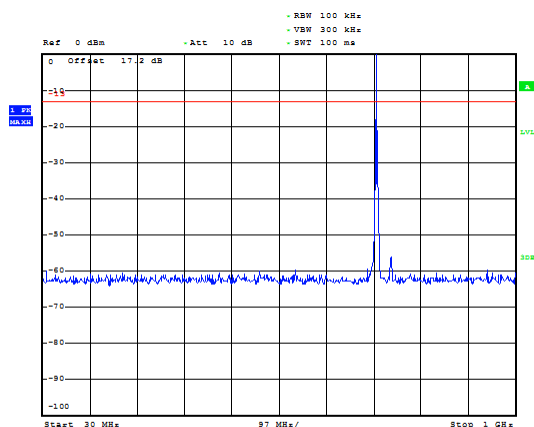
LTE Band 12 3MHz CH- Middle 30MHz~1GHz



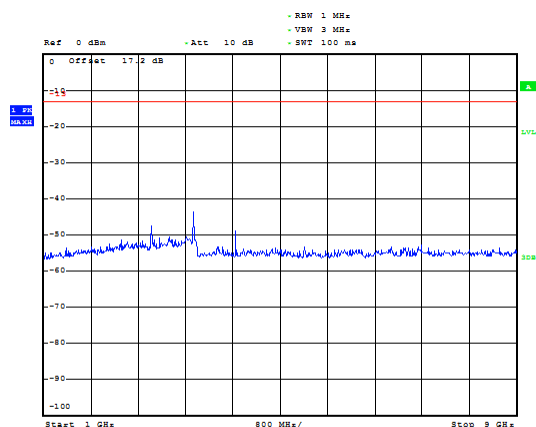
LTE Band 12 3MHz CH- Middle 1GHz~9GHz



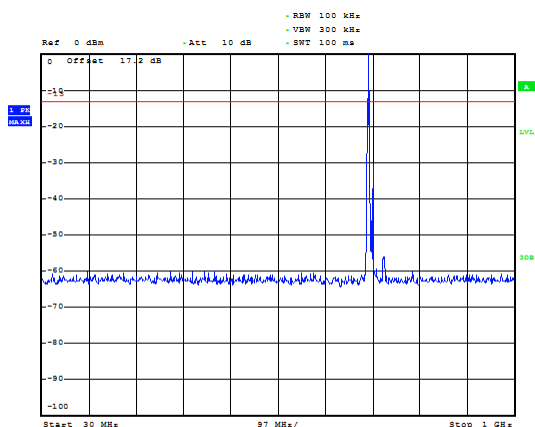
LTE Band 12 3MHz CH-High 30MHz~1GHz



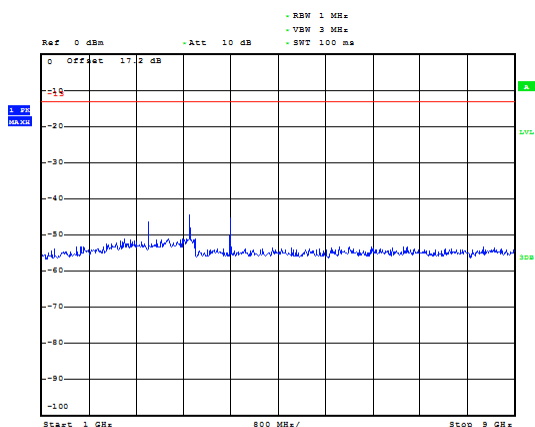
LTE Band 12 3MHz CH-High 1GHz~9GHz



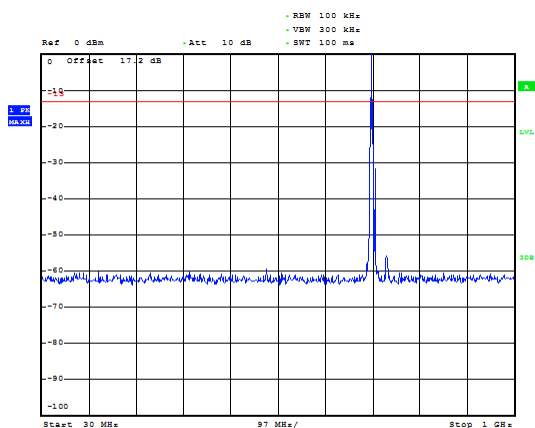
LTE Band 12 5MHz CH-Low 30MHz~1GHz



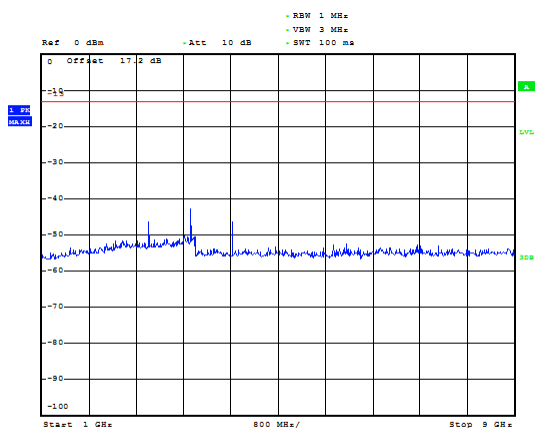
LTE Band 12 5MHz CH-Low 1GHz~9GHz



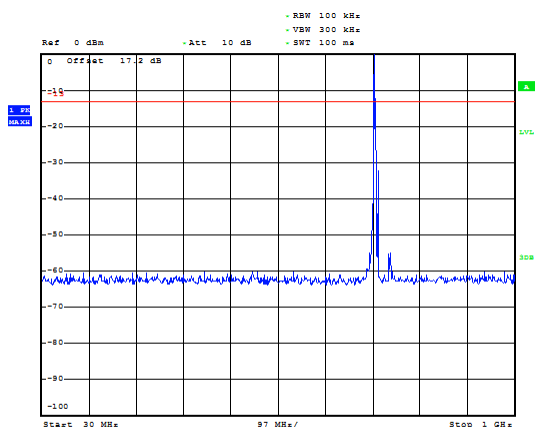
LTE Band 12 5MHz CH- Middle 30MHz~1GHz



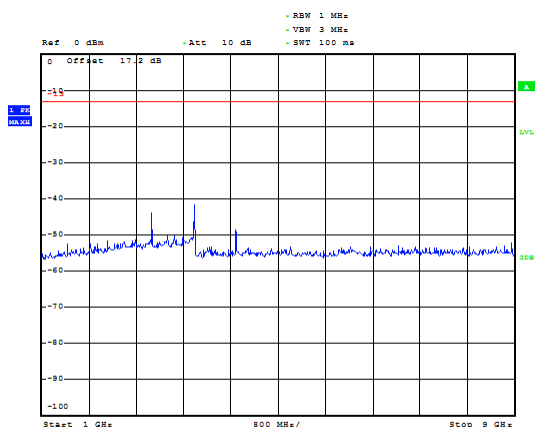
LTE Band 12 5MHz CH- Middle 1GHz~9GHz



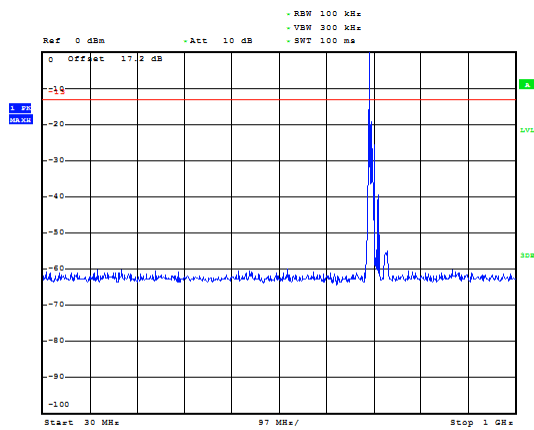
LTE Band 12 5MHz CH-High 30MHz~1GHz



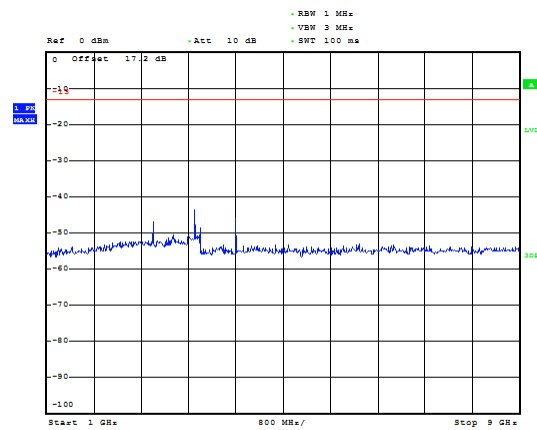
LTE Band 12 5MHz CH-High 1GHz~9GHz



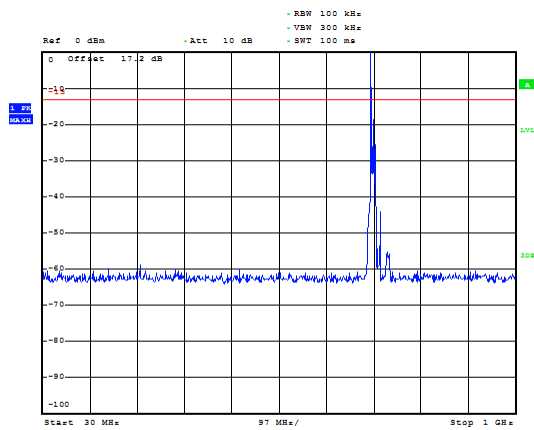
LTE Band 12 10MHz CH-Low 30MHz~1GHz



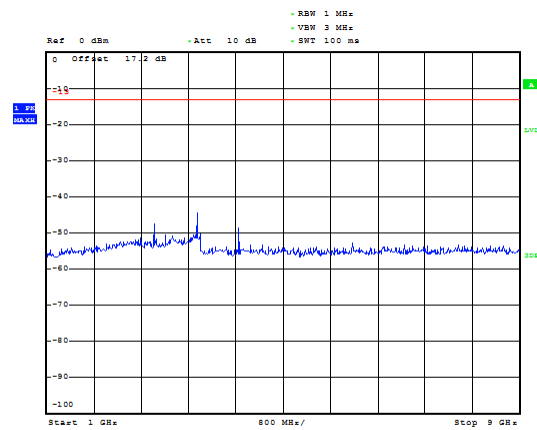
LTE Band 12 10MHz CH-Low 1GHz~9GHz



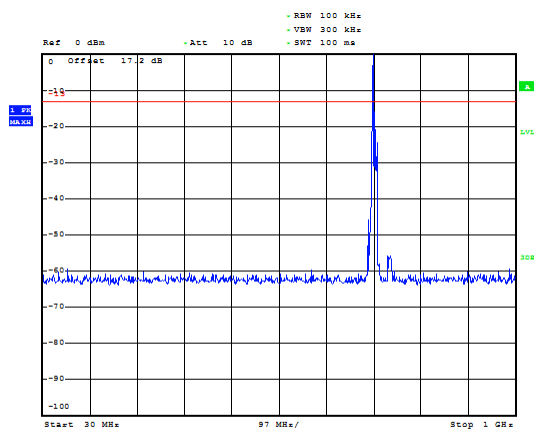
LTE Band 12 10MHz CH- Middle 30MHz~1GHz



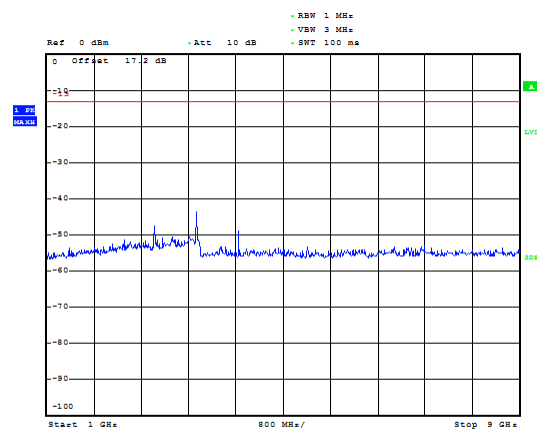
LTE Band 12 10MHz CH- Middle 1GHz~9GHz



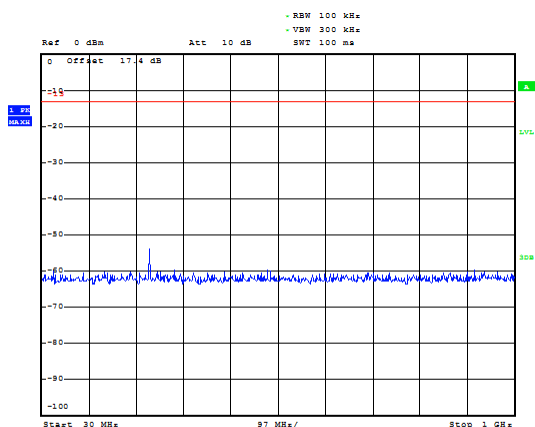
LTE Band 12 10MHz CH-High 30MHz~1GHz



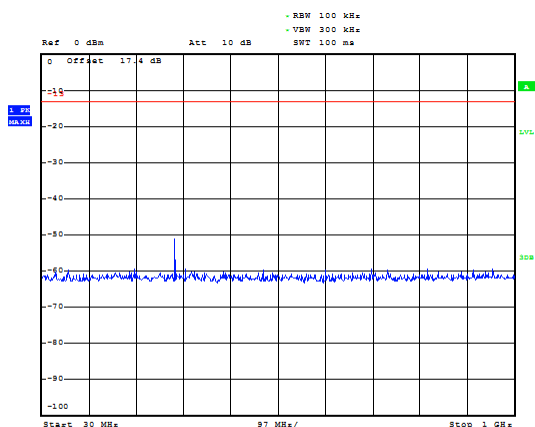
LTE Band 12 10MHz CH-High 1GHz~9GHz



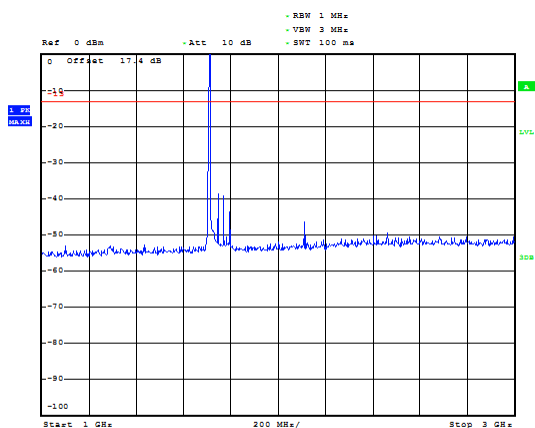
LTE Band 66 1.4MHz CH-Low 30MHz~1GHz



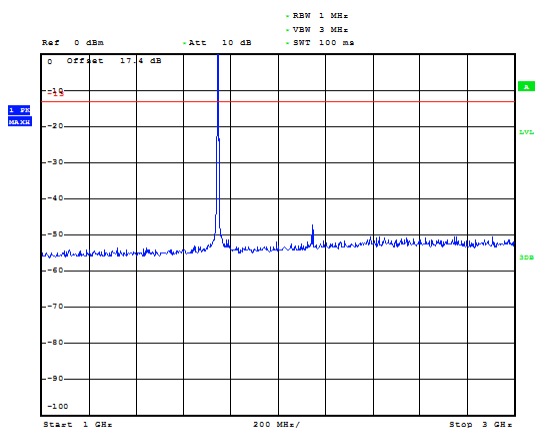
LTE Band 66 1.4MHz CH-Middle 30MHz~1GHz



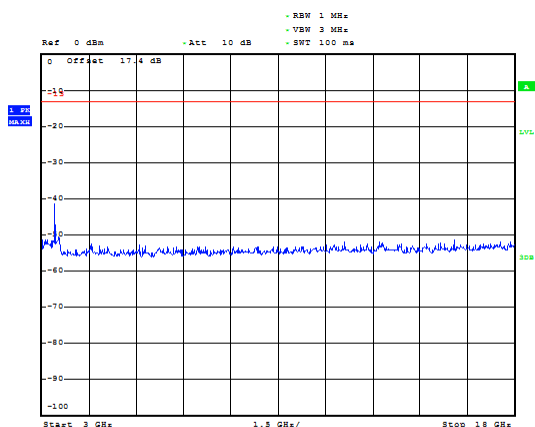
LTE Band 66 1.4MHz CH-Low 1GHz~3GHz



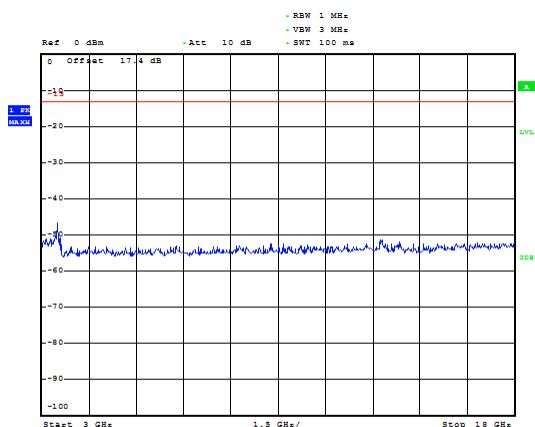
LTE Band 66 1.4MHz CH-Middle 1GHz~3GHz



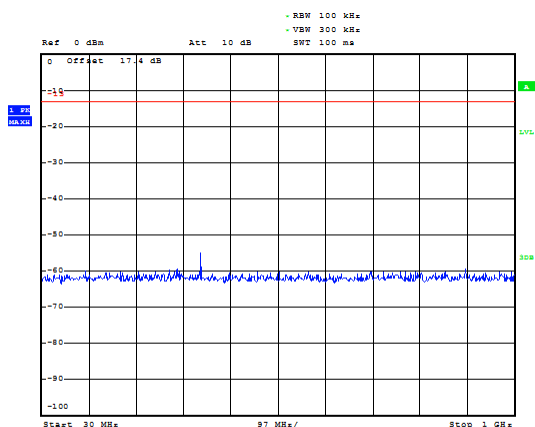
LTE Band 66 1.4MHz CH-Low 3GHz~18GHz



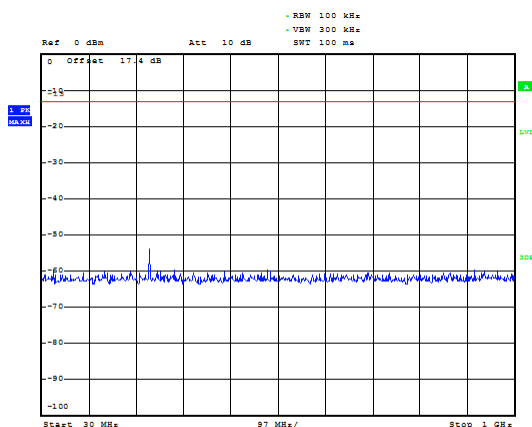
LTE Band 66 1.4MHz CH-Middle 3GHz~18GHz



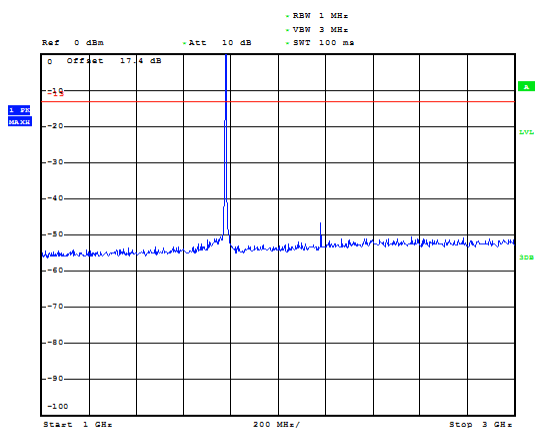
LTE Band 66 1.4MHz CH-High 30MHz~1GHz



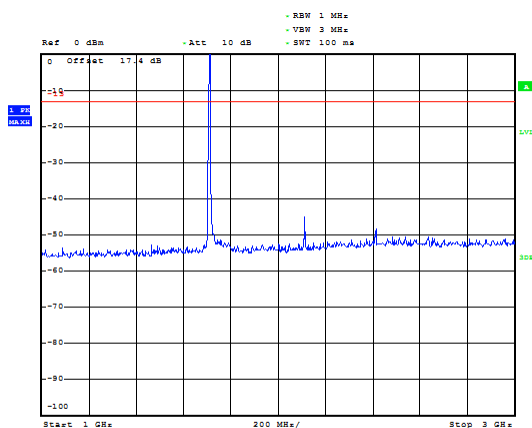
LTE Band 66 3MHz CH-Low 30MHz~1GHz



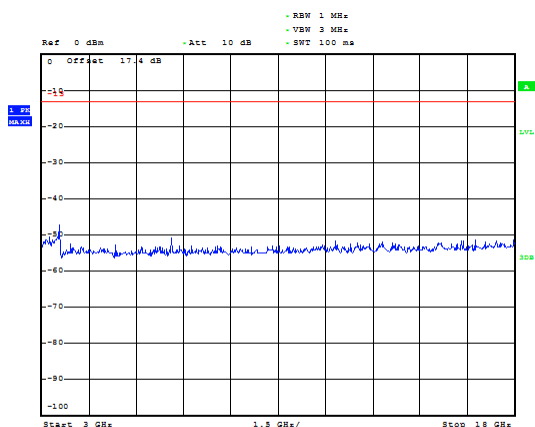
LTE Band 66 1.4MHz CH-High 1GHz~3GHz



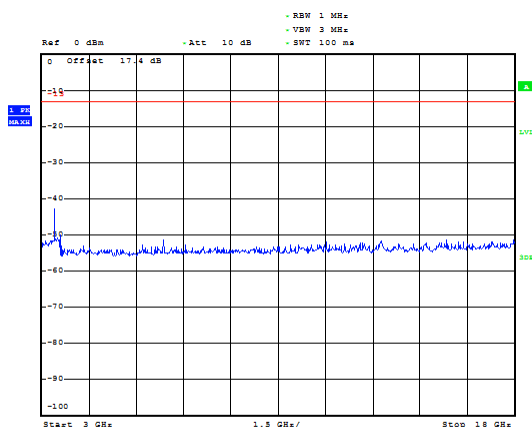
LTE Band 66 3MHz CH-Low 1GHz~3GHz



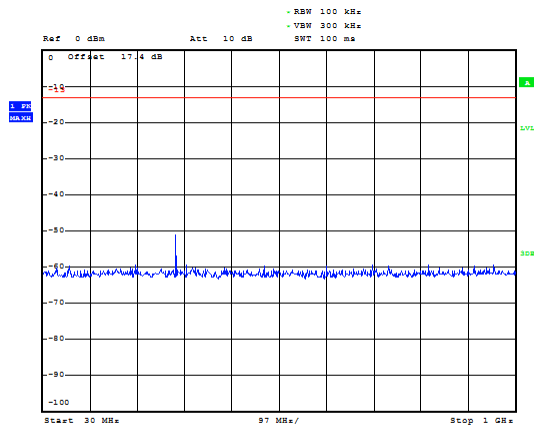
LTE Band 66 1.4MHz CH-High 3GHz~18GHz



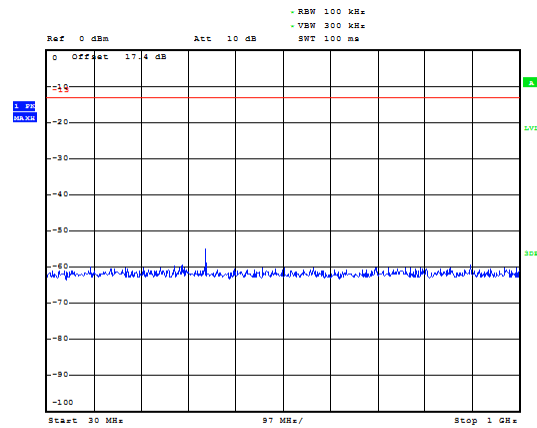
LTE Band 66 3MHz CH-Low 3GHz~18GHz



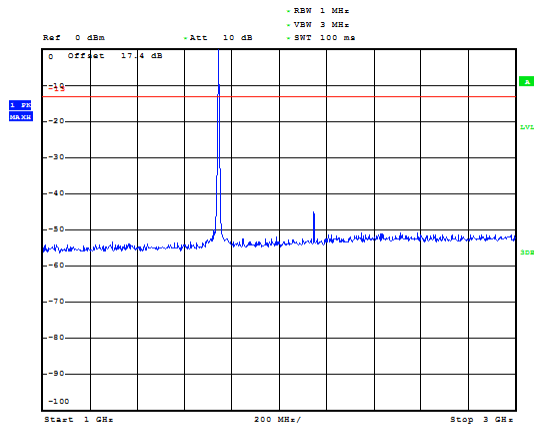
LTE Band 66 3MHz CH-Middle 30MHz~1GHz



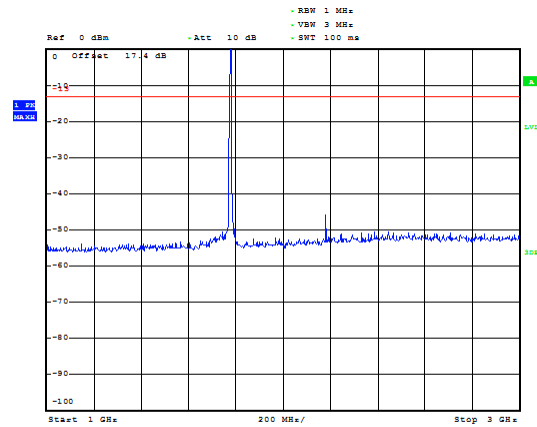
LTE Band 66 3MHz CH-High 30MHz~1GHz



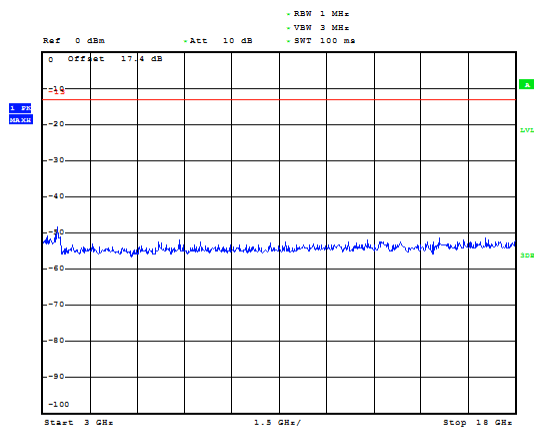
LTE Band 66 3MHz CH-Middle 1GHz~3GHz



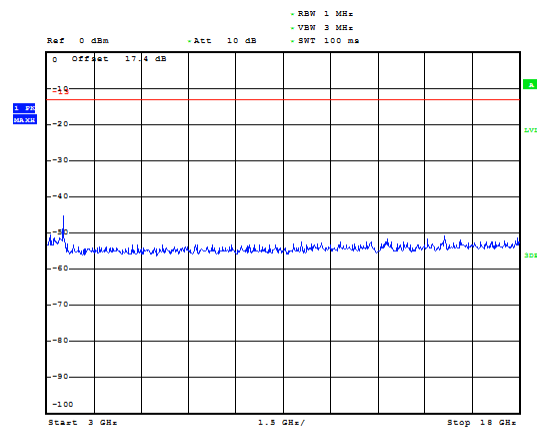
LTE Band 66 3MHz CH-High 1GHz~3GHz



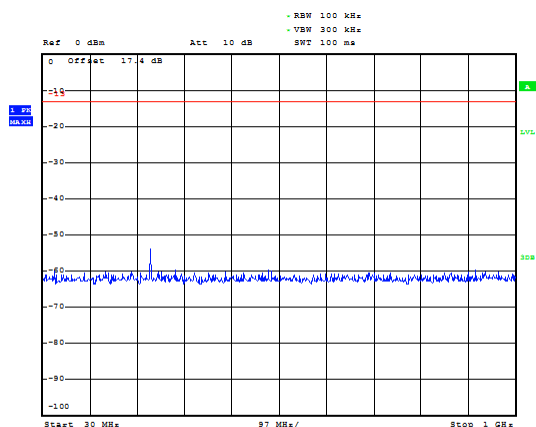
LTE Band 66 3MHz CH-Middle 3GHz~18GHz



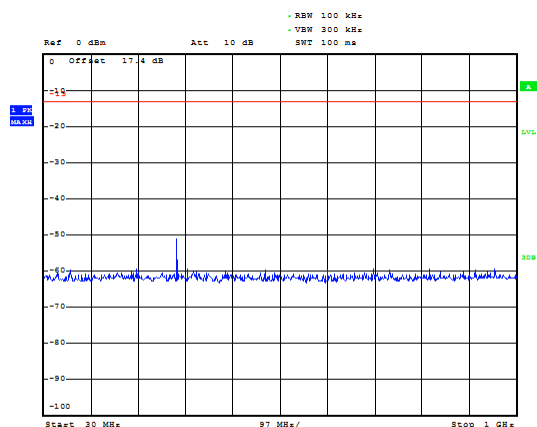
LTE Band 66 3MHz CH-High 3GHz~18GHz



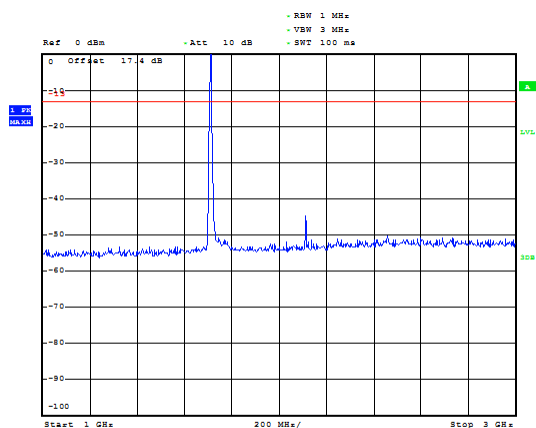
LTE Band 66 5MHz CH-Low 30MHz~1GHz



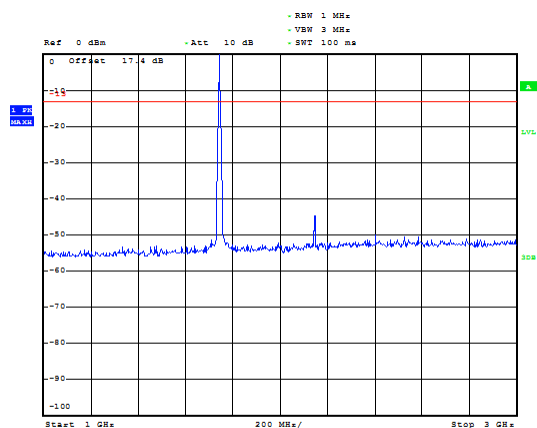
LTE Band 66 5MHz CH-Middle 30MHz~1GHz



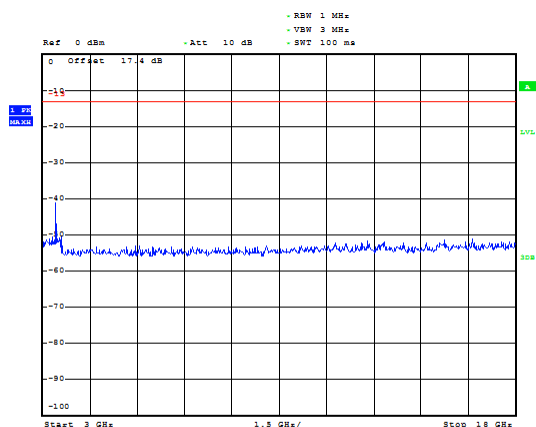
LTE Band 66 5MHz CH-Low 1GHz~3GHz



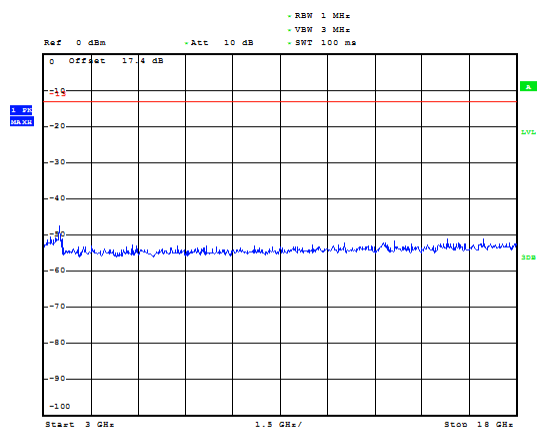
LTE Band 66 5MHz CH-Middle 1GHz~3GHz



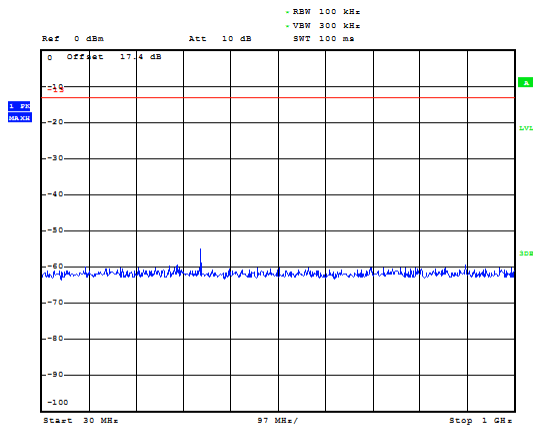
LTE Band 66 5MHz CH-Low 3GHz~18GHz



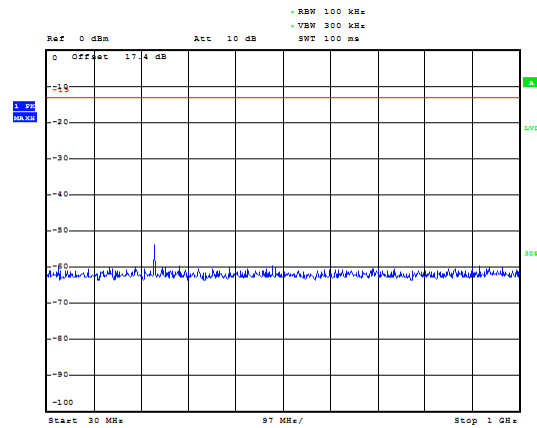
LTE Band 66 5MHz CH-Middle 3GHz~18GHz



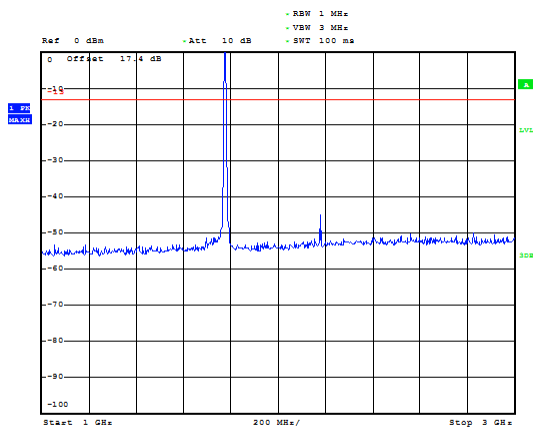
LTE Band 66 5MHz CH-High 30MHz~1GHz



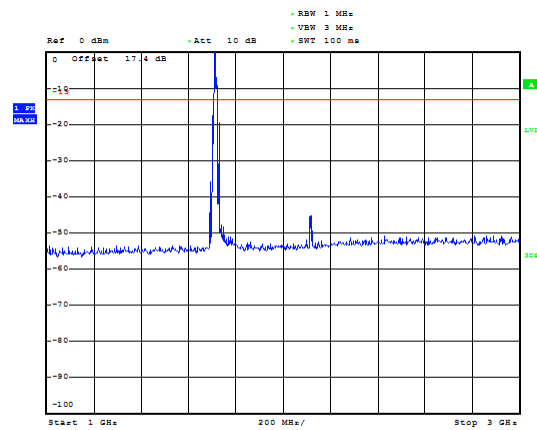
LTE Band 66 10MHz CH-Low 30MHz~1GHz



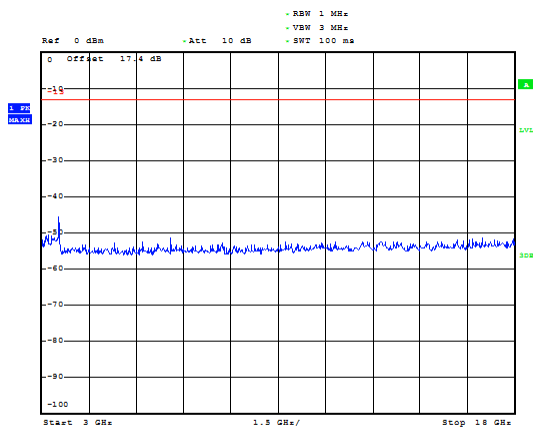
LTE Band 66 5MHz CH-High 1GHz~3GHz



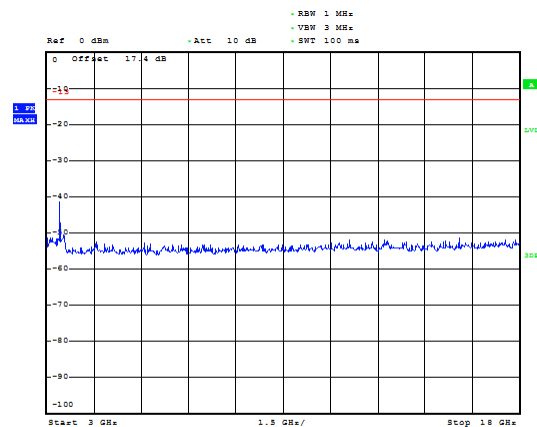
LTE Band 66 10MHz CH-Low 1GHz~3GHz



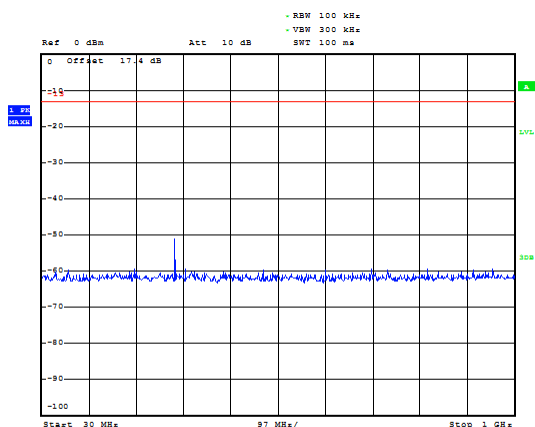
LTE Band 66 5MHz CH-High 3GHz~18GHz



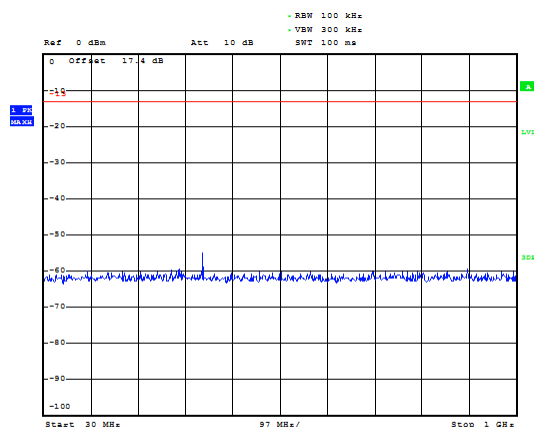
LTE Band 66 10MHz CH-Low 3GHz~18GHz



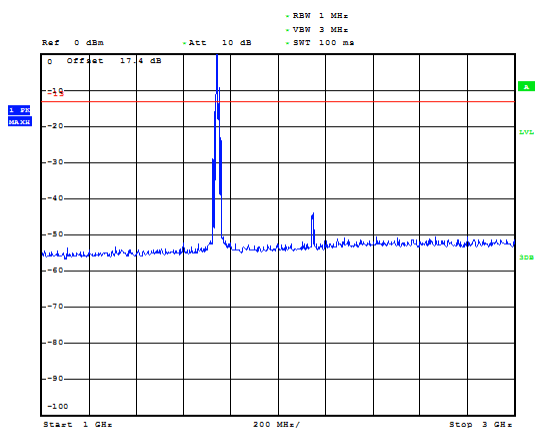
LTE Band 66 10MHz CH-Middle 30MHz~1GHz



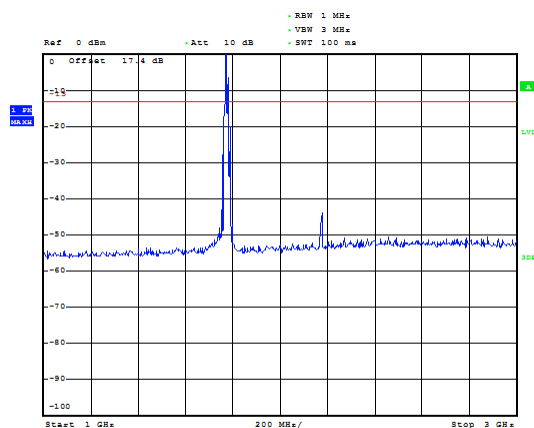
LTE Band 66 10MHz CH-High 30MHz~1GHz



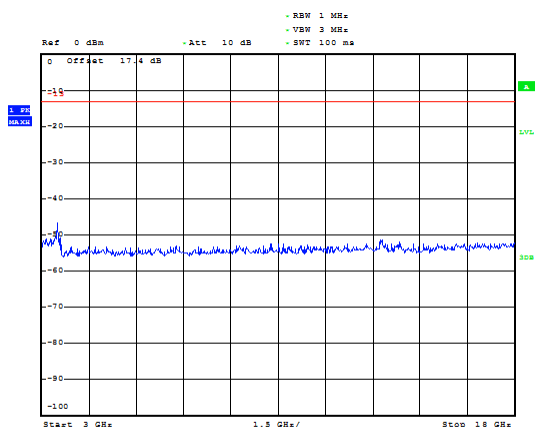
LTE Band 66 10MHz CH-Middle 1GHz~3GHz



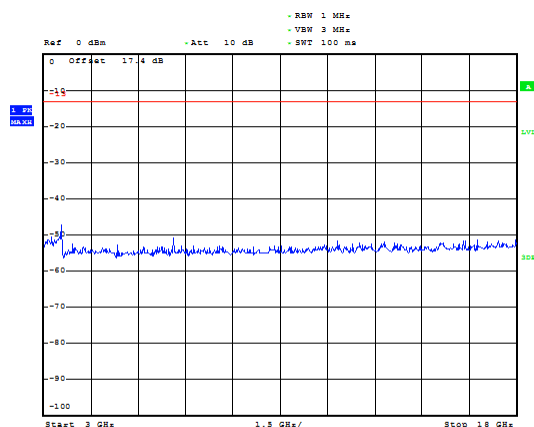
LTE Band 66 10MHz CH-High 1GHz~3GHz



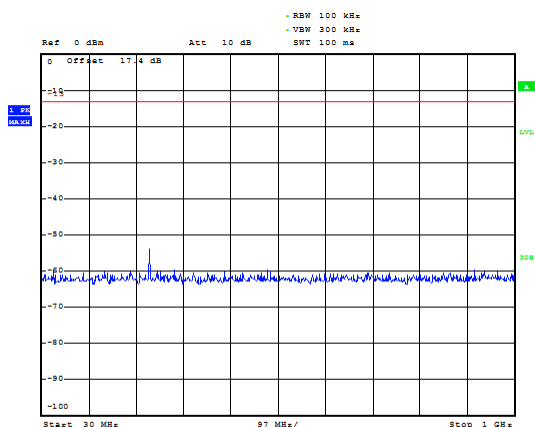
LTE Band 66 10MHz CH-Middle 3GHz~18GHz



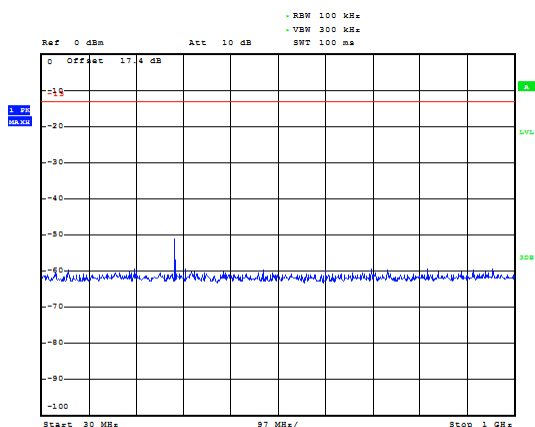
LTE Band 66 10MHz CH-High 3GHz~18GHz



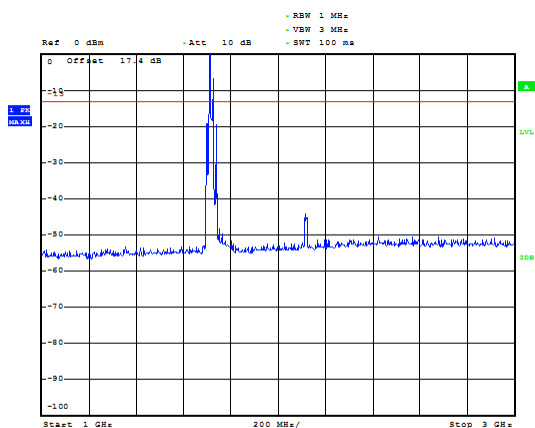
LTE Band 66 15MHz CH-Low 30MHz~1GHz



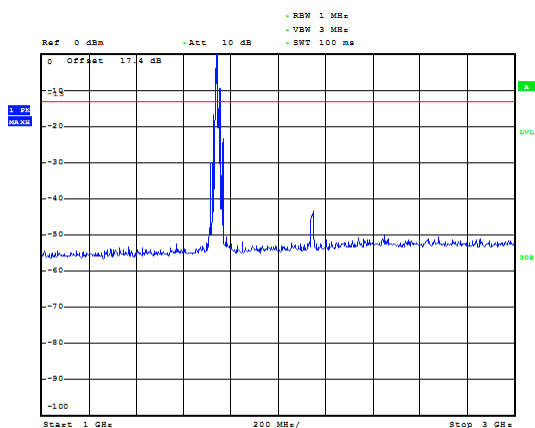
LTE Band 66 15MHz CH-Middle 30MHz~1GHz



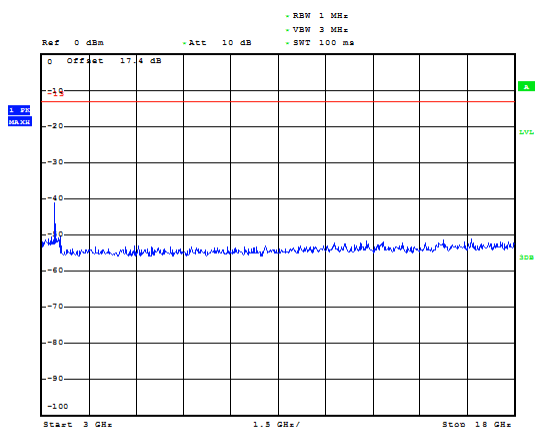
LTE Band 66 15MHz CH-Low 1GHz~3GHz



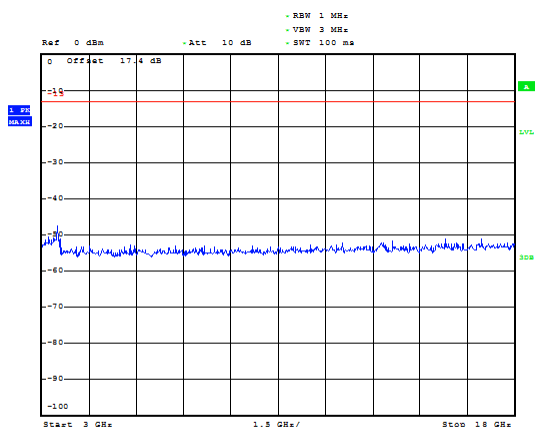
LTE Band 66 15MHz CH-Middle 1GHz~3GHz



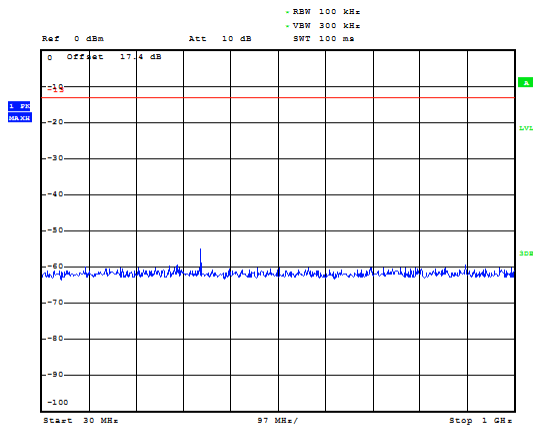
LTE Band 66 15MHz CH-Low 3GHz~18GHz



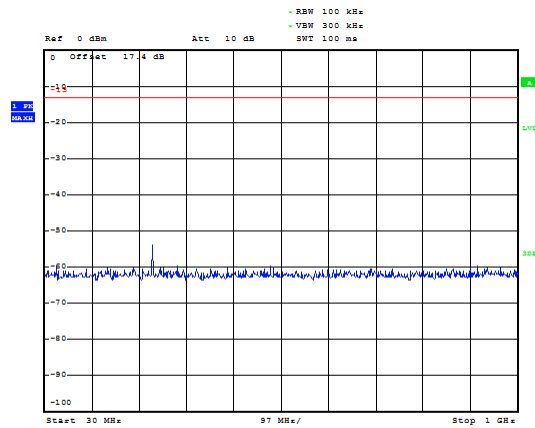
LTE Band 66 15MHz CH-Middle 3GHz~18GHz



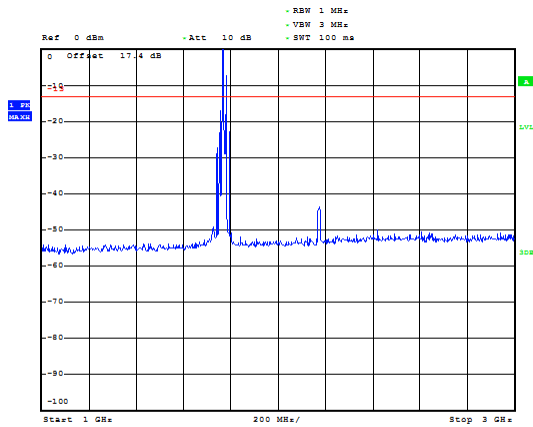
LTE Band 66 15MHz CH-High 30MHz~1GHz



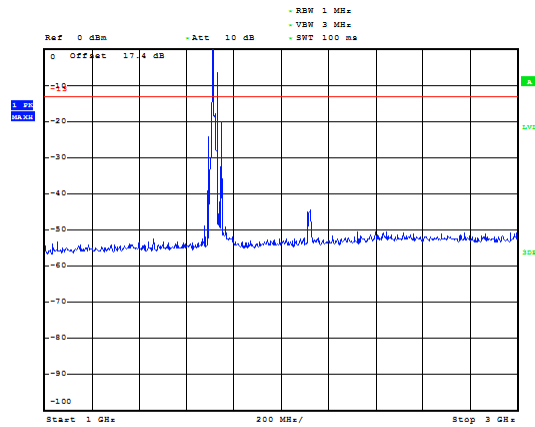
LTE Band 66 20MHz CH-Low 30MHz~1GHz



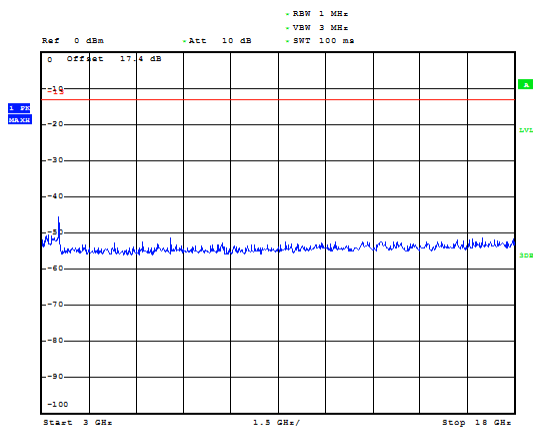
LTE Band 66 15MHz CH-High 1GHz~3GHz



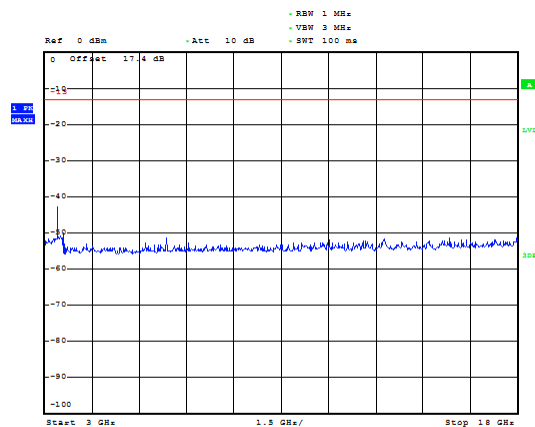
LTE Band 66 20MHz CH-Low 1GHz~3GHz



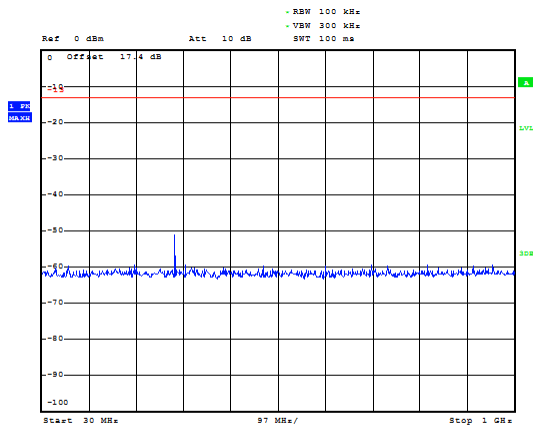
LTE Band 66 15MHz CH-High 3GHz~18GHz



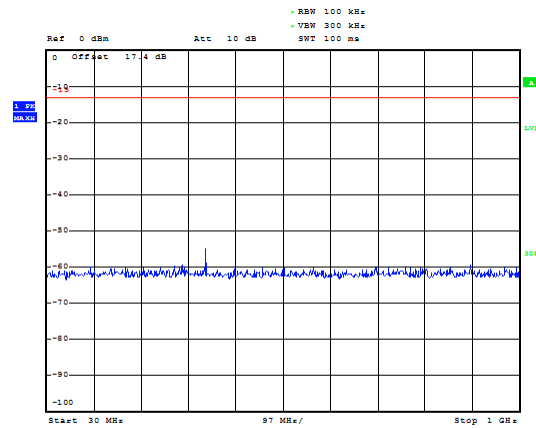
LTE Band 66 20MHz CH-Low 3GHz~18GHz



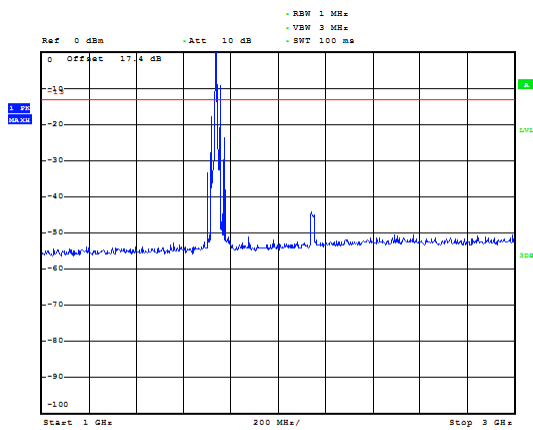
LTE Band 66 20MHz CH-Middle 30MHz~1GHz



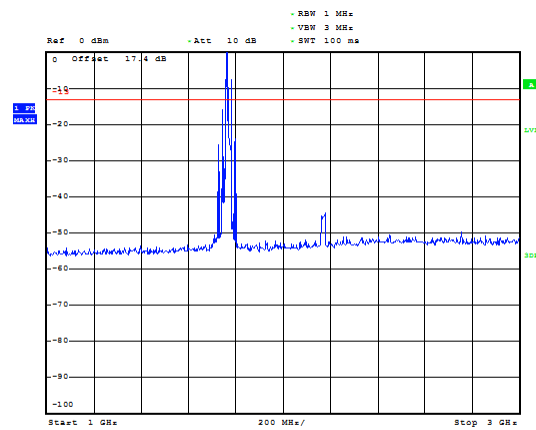
LTE Band 66 20MHz CH-High 30MHz~1GHz



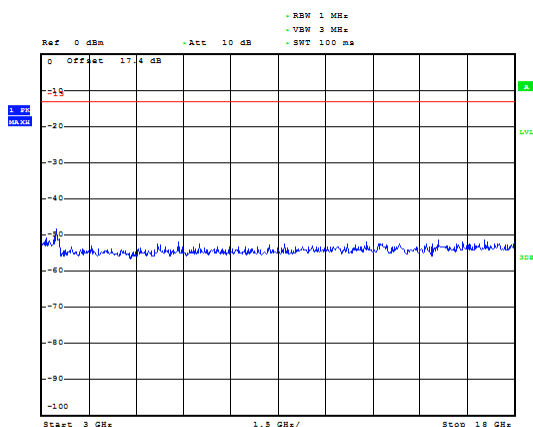
LTE Band 66 20MHz CH-Middle 1GHz~3GHz



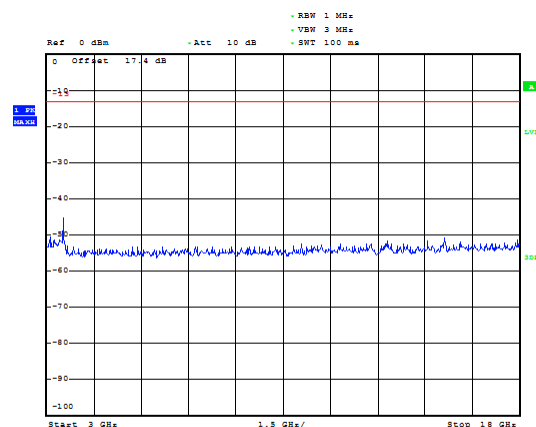
LTE Band 66 20MHz CH-High 1GHz~3GHz



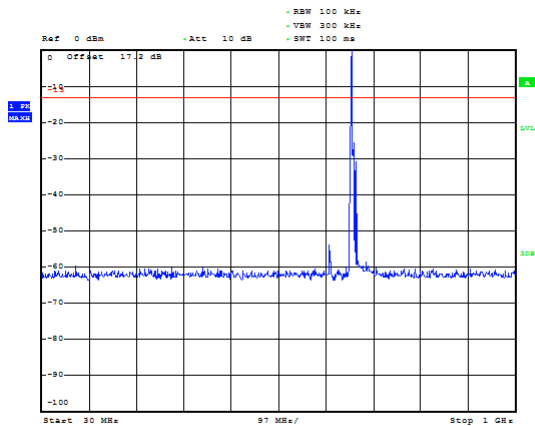
LTE Band 66 20MHz CH-Middle 3GHz~18GHz



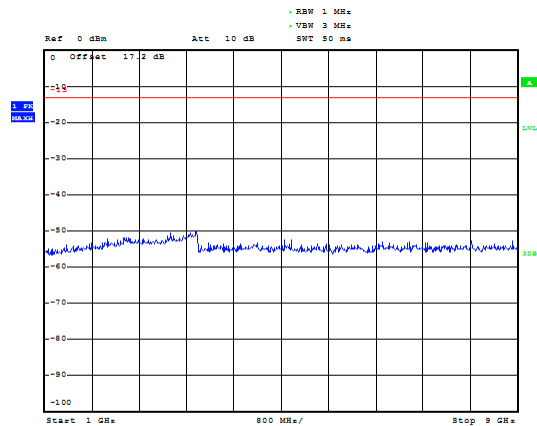
LTE Band 66 20MHz CH-High 3GHz~18GHz



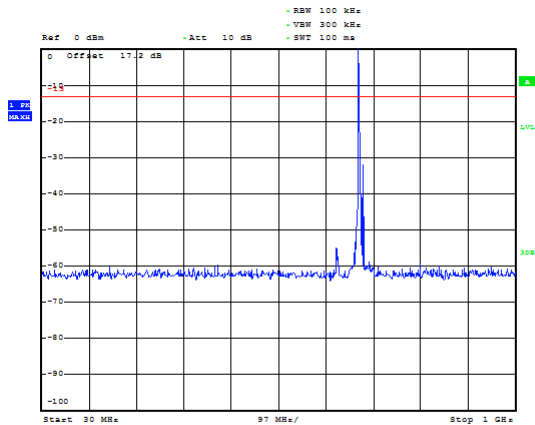
LTE Band 71 5MHz CH-Low 30MHz~1GHz



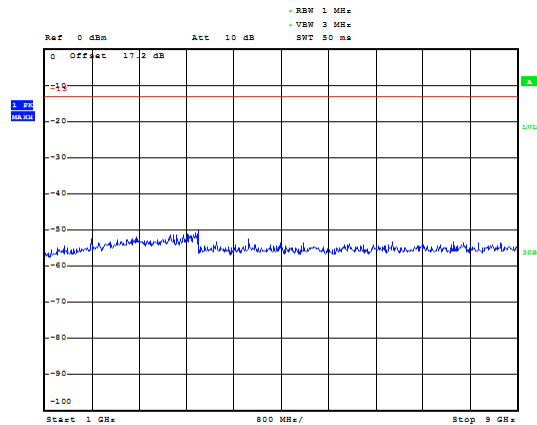
LTE Band 71 5MHz CH-Low 1GHz~9GHz



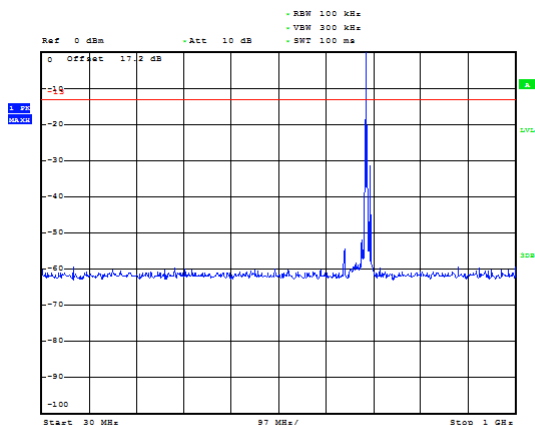
LTE Band 71 5MHz CH-Middle 30MHz~1GHz



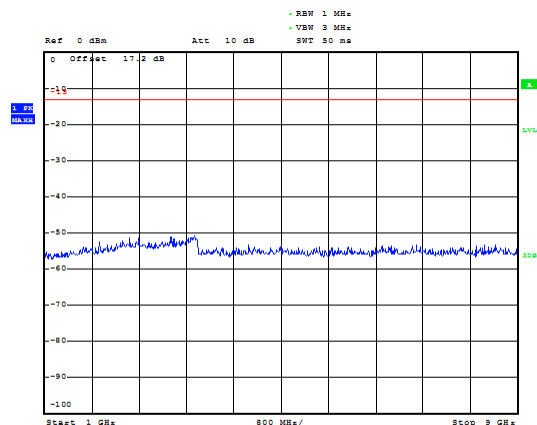
LTE Band 71 5MHz CH-Middle 1GHz~9GHz



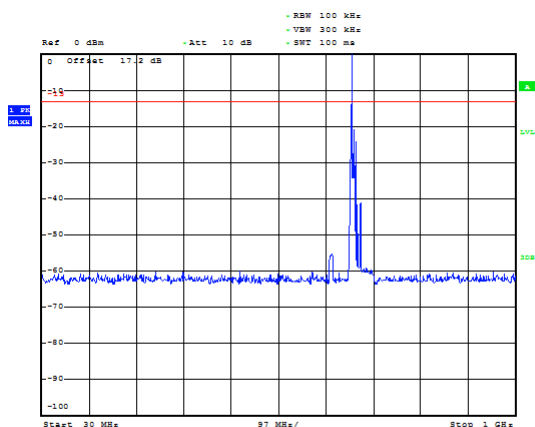
LTE Band 71 5MHz CH-High 30MHz~1GHz



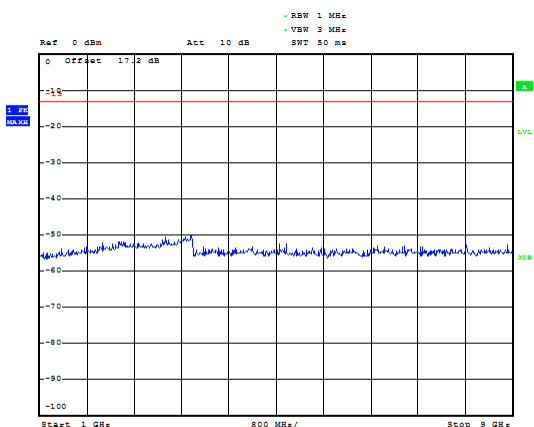
LTE Band 71 5MHz CH-High 1GHz~9GHz



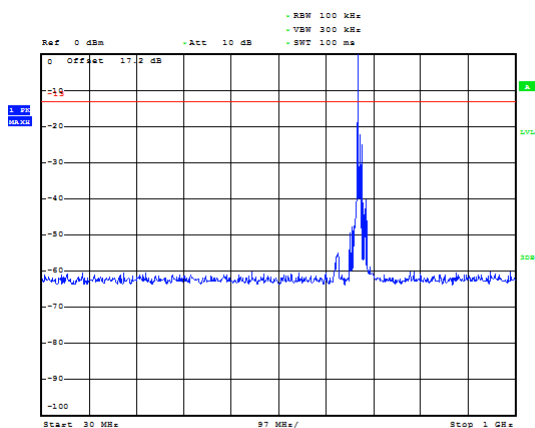
LTE Band 71 10MHz CH-Low 30MHz~1GHz



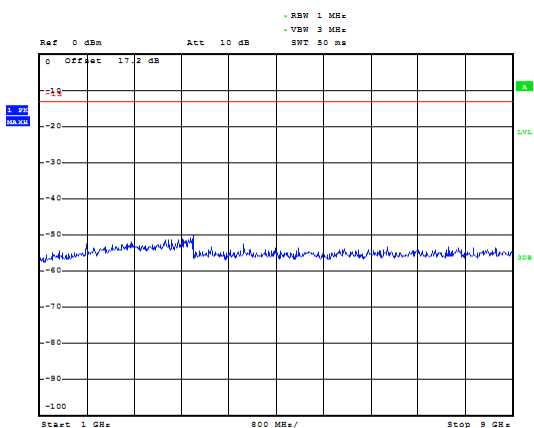
LTE Band 71 10MHz CH-Low 1GHz~9GHz



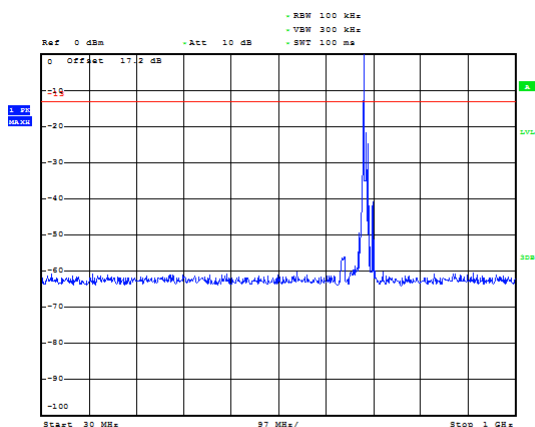
LTE Band 71 10MHz CH-Middle 30MHz~1GHz



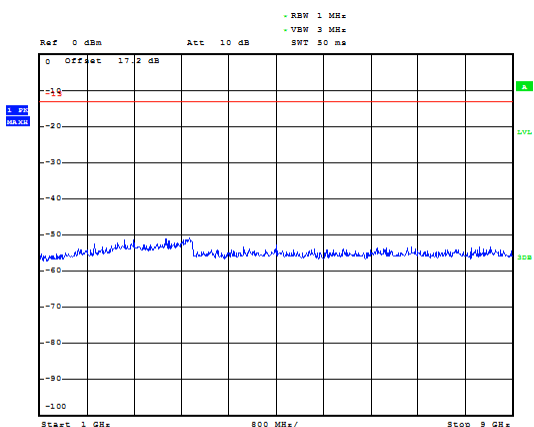
LTE Band 71 10MHz CH-Middle 1GHz~9GHz



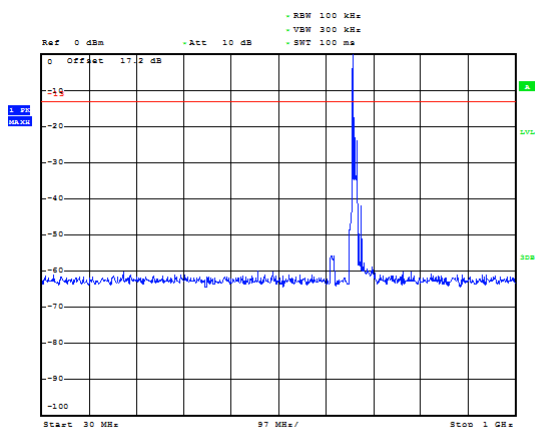
LTE Band 71 10MHz CH-High 30MHz~1GHz



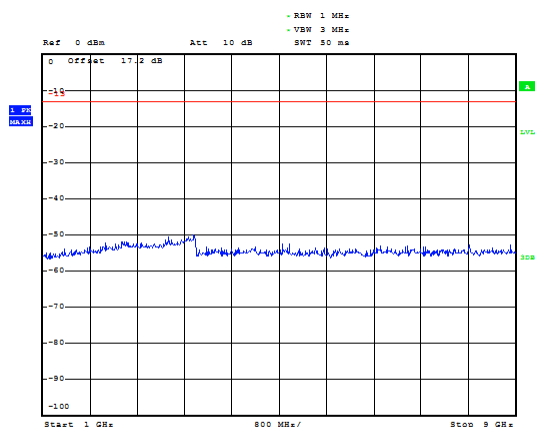
LTE Band 71 10MHz CH-High 1GHz~9GHz



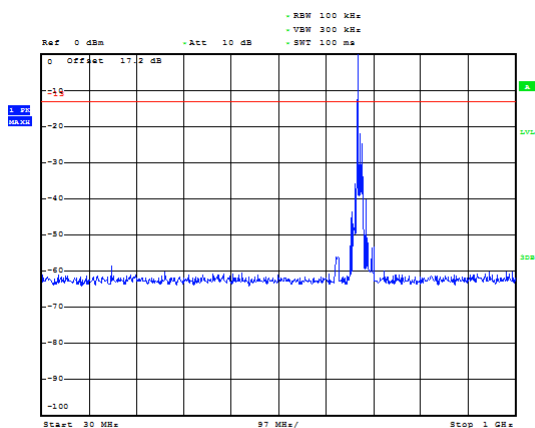
LTE Band 71 15MHz CH-Low 30MHz~1GHz



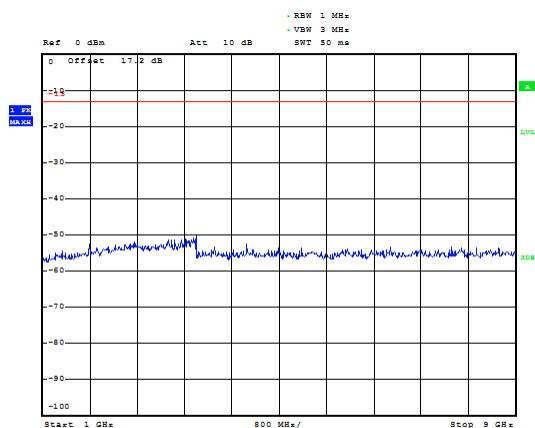
LTE Band 71 15MHz CH-Low 1GHz~9GHz



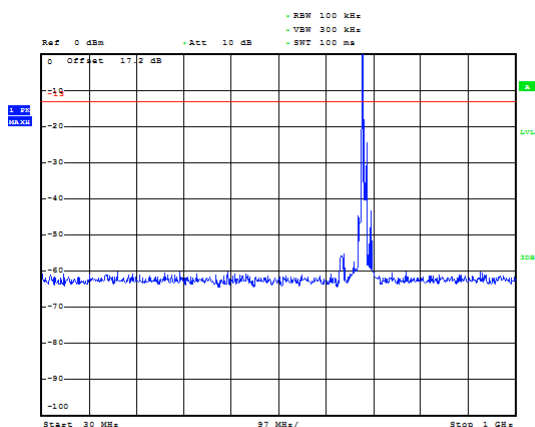
LTE Band 71 15MHz CH-Middle 30MHz~1GHz



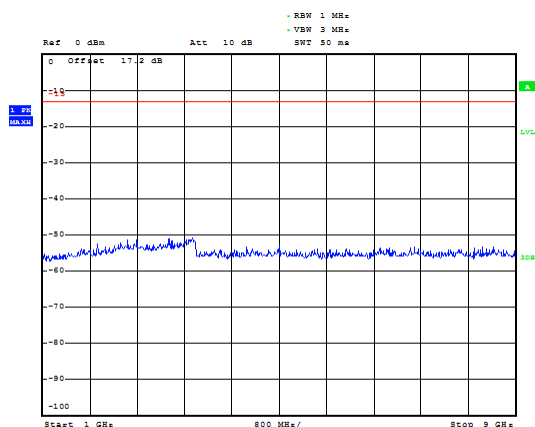
LTE Band 71 15MHz CH-Middle 1GHz~9GHz



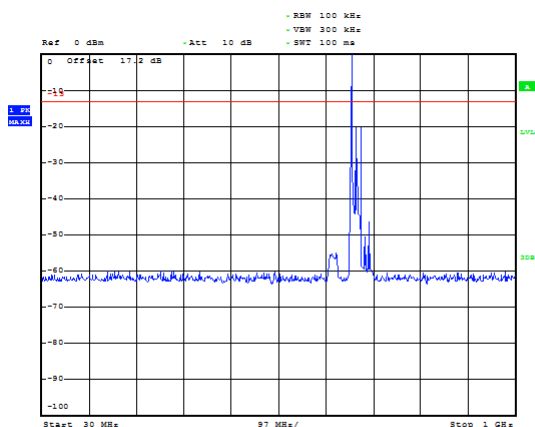
LTE Band 71 15MHz CH-High 30MHz~1GHz



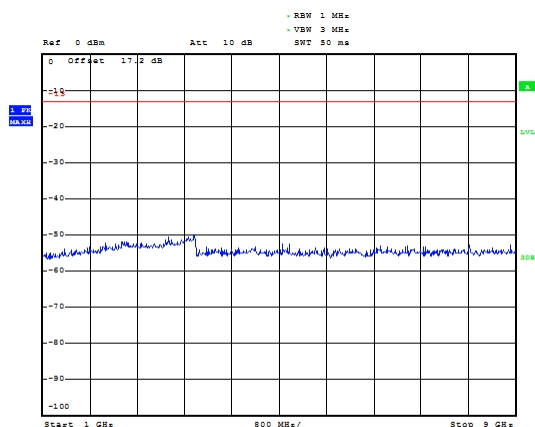
LTE Band 71 15MHz CH-High 1GHz~9GHz



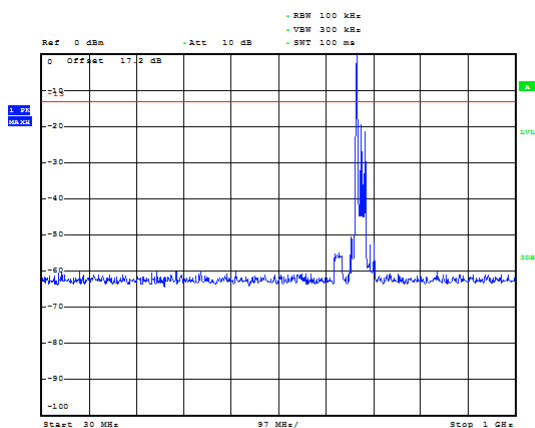
LTE Band 71 20MHz CH-Low 30MHz~1GHz



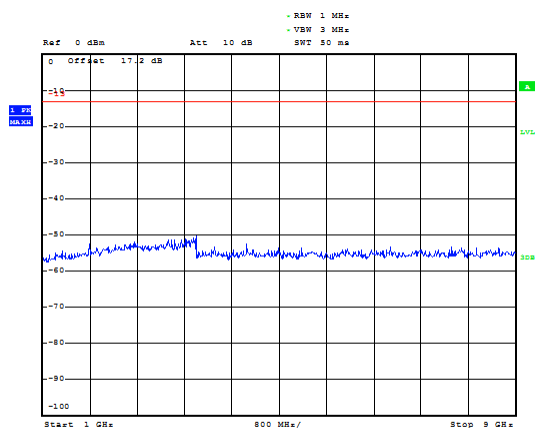
LTE Band 71 20MHz CH-Low 1GHz~9GHz



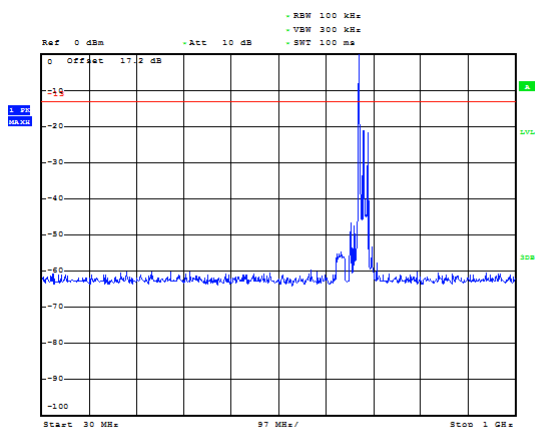
LTE Band 71 20MHz CH-Middle 30MHz~1GHz



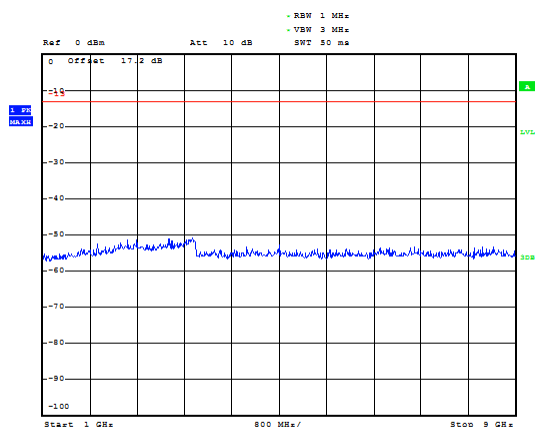
LTE Band 71 20MHz CH-Middle 1GHz~9GHz



LTE Band 71 20MHz CH-High 30MHz~1GHz



LTE Band 71 20MHz CH-High 1GHz~9GHz



6.7 Radiated Spurious Emission

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

LTE Band 4 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3464.3	-59.97	2.70	12.70	Horizontal	-49.97	-13.00	36.97	180
3	5197.5	-65.03	3.20	12.50	Horizontal	-55.73	-13.00	42.73	0
4	6930.0	-50.57	4.20	11.80	Horizontal	-42.97	-13.00	29.97	180
5	8662.5	-58.58	4.40	12.50	Horizontal	-50.48	-13.00	37.48	225
6	10395.0	-53.37	4.70	11.30	Horizontal	-46.77	-13.00	33.77	45
7	12127.5	-55.71	5.20	13.80	Horizontal	-47.11	-13.00	34.11	315
8	13860.0	-47.91	5.70	11.30	Horizontal	-42.31	-13.00	29.31	270
9	15592.5	-58.20	6.10	16.80	Horizontal	-47.50	-13.00	34.50	0
10	17325.0	-52.33	6.10	14.20	Horizontal	-44.23	-13.00	31.23	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 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3460.5	-59.69	2.70	12.70	Horizontal	-49.69	-13.00	36.69	315
3	5191.5	-64.49	3.20	12.50	Horizontal	-55.19	-13.00	42.19	180
4	6930.0	-50.39	4.20	11.80	Horizontal	-42.79	-13.00	29.79	0
5	8662.5	-58.59	4.40	12.50	Horizontal	-50.49	-13.00	37.49	45
6	10395.0	-53.23	4.70	11.30	Horizontal	-46.63	-13.00	33.63	225
7	12127.5	-54.19	5.20	13.80	Horizontal	-45.59	-13.00	32.59	315
8	13860.0	-47.86	5.70	11.30	Horizontal	-42.26	-13.00	29.26	45
9	15592.5	-57.73	6.10	16.80	Horizontal	-47.03	-13.00	34.03	90
10	17325.0	-52.37	6.10	14.20	Horizontal	-44.27	-13.00	31.27	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 Horizontal position.

LTE Band 4 QPSK 20MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3447.8	-58.57	2.70	12.70	Horizontal	-48.57	-13.00	35.57	315
3	5170.9	-61.82	3.20	12.50	Horizontal	-52.52	-13.00	39.52	0
4	6894.0	-50.78	4.20	11.80	Horizontal	-43.18	-13.00	30.18	45
5	8662.5	-57.99	4.40	12.50	Horizontal	-49.89	-13.00	36.89	270
6	10395.0	-50.01	4.70	11.30	Horizontal	-43.41	-13.00	30.41	180
7	12127.5	-55.30	5.20	13.80	Horizontal	-46.70	-13.00	33.70	0
8	13860.0	-48.66	5.70	11.30	Horizontal	-43.06	-13.00	30.06	225
9	15592.5	-57.29	6.10	16.80	Horizontal	-46.59	-13.00	33.59	0
10	17325.0	-51.84	6.10	14.20	Horizontal	-43.74	-13.00	30.74	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 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.0	-65.71	1.70	8.70	Horizontal	-60.86	-13.00	47.86	0
3	2122.5	-54.14	2.10	11.10	Horizontal	-47.29	-13.00	34.29	90
4	2830.0	-61.84	2.30	13.10	Horizontal	-53.19	-13.00	40.19	90
5	3537.5	-59.12	2.60	12.70	Horizontal	-51.17	-13.00	38.17	315
6	4245.0	-59.19	3.30	12.50	Horizontal	-52.14	-13.00	39.14	270
7	4952.5	-62.18	3.40	12.50	Horizontal	-55.23	-13.00	42.23	180
8	5660.0	-62.25	3.30	12.50	Horizontal	-55.20	-13.00	42.20	0
9	6367.5	-57.62	3.80	11.50	Horizontal	-52.07	-13.00	39.07	45
10	7075.0	-55.70	4.20	11.80	Horizontal	-50.25	-13.00	37.25	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.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.0	-64.99	1.70	8.70	Horizontal	-60.14	-13.00	47.14	45
3	2122.5	-52.56	2.10	11.10	Horizontal	-45.71	-13.00	32.71	270
4	2830.0	-58.32	2.30	13.10	Horizontal	-49.67	-13.00	36.67	0
5	3526.5	-56.90	2.60	12.70	Horizontal	-48.95	-13.00	35.95	45
6	4231.9	-58.47	3.30	12.50	Horizontal	-51.42	-13.00	38.42	270
7	5289.8	-63.01	3.40	12.50	Horizontal	-56.06	-13.00	43.06	180
8	6171.4	-61.56	3.30	12.50	Horizontal	-54.51	-13.00	41.51	0
9	7053.0	-55.57	3.80	11.50	Horizontal	-50.02	-13.00	37.02	45
10	7934.6	-54.86	4.20	11.80	Horizontal	-49.41	-13.00	36.41	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.

LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.0	-60.00	1.70	8.70	Horizontal	-55.15	-13.00	42.15	315
3	2122.5	-49.88	2.10	11.10	Horizontal	-43.03	-13.00	30.03	45
4	2830.0	-55.69	2.30	13.10	Horizontal	-47.04	-13.00	34.04	90
5	3516.4	-54.72	2.60	12.70	Horizontal	-46.77	-13.00	33.77	90
6	4218.4	-58.61	3.30	12.50	Horizontal	-51.56	-13.00	38.56	270
7	5274.0	-62.50	3.40	12.50	Horizontal	-55.55	-13.00	42.55	180
8	6153.0	-62.20	3.30	12.50	Horizontal	-55.15	-13.00	42.15	0
9	7032.0	-55.81	3.80	11.50	Horizontal	-50.26	-13.00	37.26	45
10	7911.0	-55.30	4.20	11.80	Horizontal	-49.85	-13.00	36.85	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.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3489.0	-60.50	2.70	12.70	Horizontal	-50.50	-13.00	37.50	0
3	5235.0	-65.32	3.20	12.50	Horizontal	-56.02	-13.00	43.02	180
4	6980.0	-55.79	4.20	11.80	Horizontal	-48.19	-13.00	35.19	225
5	8725.0	-57.81	4.40	12.50	Horizontal	-49.71	-13.00	36.71	45
6	10470.0	-55.05	4.70	11.80	Horizontal	-47.95	-13.00	34.95	270
7	12215.0	-55.32	5.20	13.80	Horizontal	-46.72	-13.00	33.72	180
8	13960.0	-52.12	5.70	13.20	Horizontal	-44.62	-13.00	31.62	0
9	15705.0	-58.77	6.10	16.80	Horizontal	-48.07	-13.00	35.07	45
10	17450.0	-52.27	6.10	14.20	Horizontal	-44.17	-13.00	31.17	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.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3486.0	-63.85	2.70	12.70	Horizontal	-53.85	-13.00	40.85	90
3	5229.0	-64.15	3.20	12.50	Horizontal	-54.85	-13.00	41.85	225
4	6972.0	-55.01	4.20	11.80	Horizontal	-47.41	-13.00	34.41	4
5	8715.0	-57.92	4.40	12.50	Horizontal	-49.82	-13.00	36.82	315
6	10458.0	-54.74	4.70	11.80	Horizontal	-47.64	-13.00	34.64	180
7	12201.0	-56.41	5.20	13.80	Horizontal	-47.81	-13.00	34.81	45
8	13944.0	-51.21	5.70	13.20	Horizontal	-43.71	-13.00	30.71	270
9	15687.0	-57.60	6.10	16.80	Horizontal	-46.90	-13.00	33.90	0
10	17430.0	-52.25	6.10	14.20	Horizontal	-44.15	-13.00	31.15	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.

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.5	-61.69	2.70	12.70	Horizontal	-51.69	-13.00	38.69	0
3	5209.0	-63.79	3.20	12.50	Horizontal	-54.49	-13.00	41.49	90
4	6945.8	-51.47	4.20	11.80	Horizontal	-43.87	-13.00	30.87	225
5	8682.0	-57.82	4.40	12.50	Horizontal	-49.72	-13.00	36.72	45
6	10418.6	-53.91	4.70	11.80	Horizontal	-46.81	-13.00	33.81	270
7	12455.0	-55.63	5.20	13.80	Horizontal	-47.03	-13.00	34.03	180
8	13891.5	-52.20	5.70	13.20	Horizontal	-44.70	-13.00	31.70	0
9	15627.0	-59.04	6.10	16.80	Horizontal	-48.34	-13.00	35.34	45
10	17364.4	-54.10	6.10	14.20	Horizontal	-46.00	-13.00	33.00	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.

LTE Band 71 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1361.0	-47.79	1.70	8.70	Horizontal	-42.94	-13.00	29.94	45
3	2041.5	-57.45	2.10	11.10	Horizontal	-50.60	-13.00	37.60	225
4	2722.0	-67.44	2.30	13.10	Horizontal	-58.79	-13.00	45.79	0
5	3402.5	-66.04	2.60	12.70	Horizontal	-58.09	-13.00	45.09	180
6	4083.0	-63.03	3.30	12.50	Horizontal	-55.98	-13.00	42.98	0
7	4763.5	-62.80	3.40	12.50	Horizontal	-55.85	-13.00	42.85	45
8	5444.0	-63.41	3.30	12.50	Horizontal	-56.36	-13.00	43.36	315
9	6124.5	-59.08	3.80	11.50	Horizontal	-53.53	-13.00	40.53	45
10	6805.0	-57.54	4.20	11.80	Horizontal	-52.09	-13.00	39.09	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 Horizontal position.

LTE Band 71 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1361.0	-47.85	1.70	8.70	Horizontal	-43.00	-13.00	30.00	225
3	2041.5	-57.45	2.10	11.10	Horizontal	-50.60	-13.00	37.60	315
4	2722.0	-65.65	2.30	13.10	Horizontal	-57.00	-13.00	44.00	45
5	3402.5	-65.76	2.60	12.70	Horizontal	-57.81	-13.00	44.81	180
6	4083.0	-63.85	3.30	12.50	Horizontal	-56.80	-13.00	43.80	0
7	4763.5	-62.01	3.40	12.50	Horizontal	-55.06	-13.00	42.06	90
8	5444.0	-62.50	3.30	12.50	Horizontal	-55.45	-13.00	42.45	225
9	6124.5	-60.70	3.80	11.50	Horizontal	-55.15	-13.00	42.15	45
10	6805.0	-57.75	4.20	11.80	Horizontal	-52.30	-13.00	39.30	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.									

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2020-05-18	2021-05-17
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	/	/
Spectrum Analyzer	Key sight	N9010A	MY50210259	2020-05-18	2021-05-17
Signal Analyzer	R&S	FSV30	100815	2019-12-15	2020-12-14
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2021-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102643	2018-06-20	2021-06-19
Signal generator	R&S	SMB 100A	102594	2020-05-18	2021-05-17
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
Preamplifier	R&S	SCU18	102327	2020-05-18	2021-05-17
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2020-05-18	2021-05-17
RF Cable	Agilent	SMA 15cm	0001	2020-06-12	2020-12-11
Software	R&S	EMC32	9.26.0	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

ANNEX C: Product Change Description (Variant 1)

The Product Change Description are submitted separately.

ANNEX C: Product Change Description (Variant 2)

The Product Change Description are submitted separately.

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