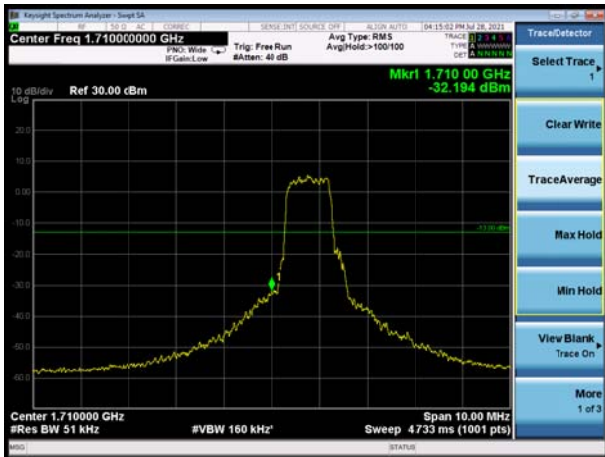
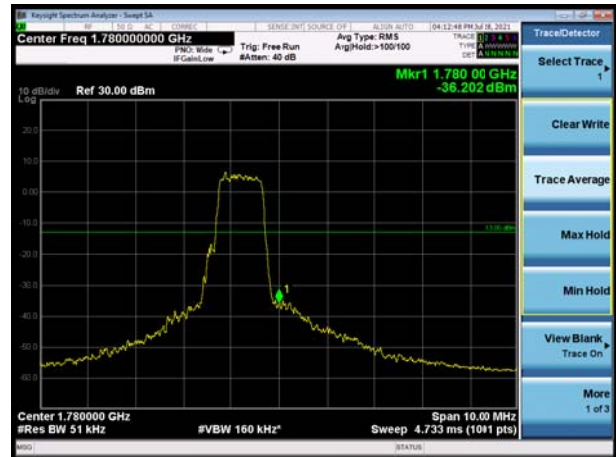


LTE eMTC Band 66 16QAM 3MHz CH-Low, 100%RB



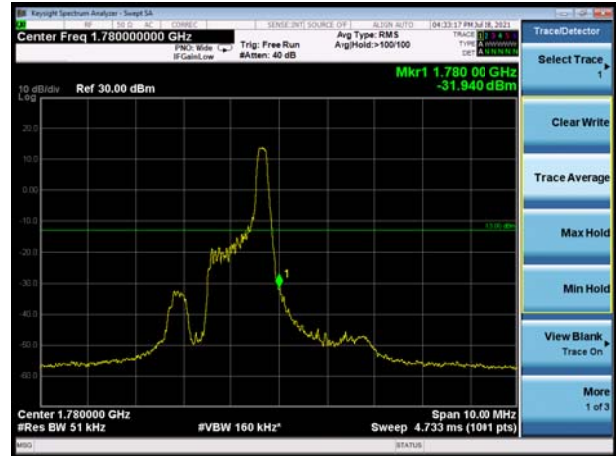
LTE eMTC Band 66 16QAM 3MHz CH-High, 100%RB



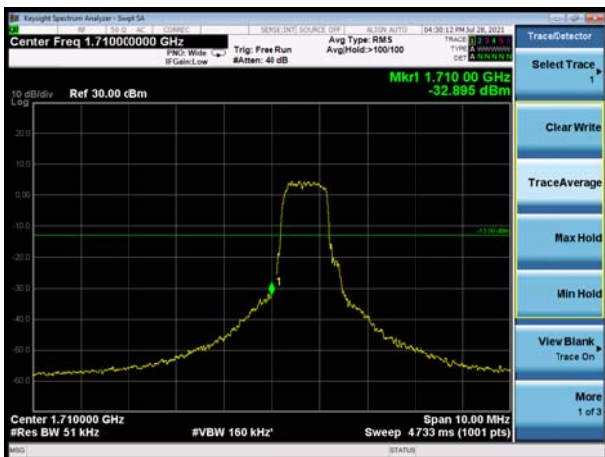
LTE eMTC Band 66 16QAM 5MHz CH-Low, 1 RB



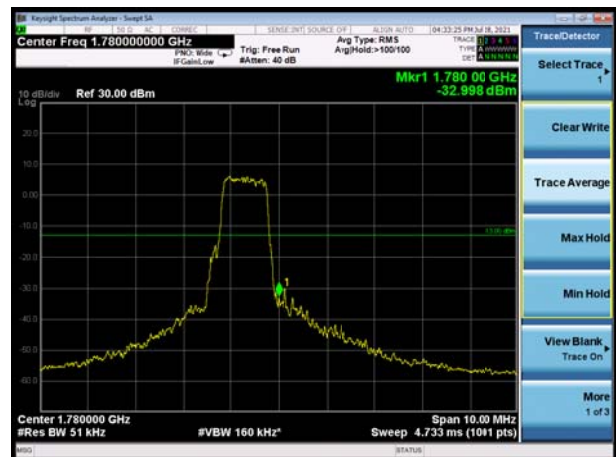
LTE eMTC Band 66 16QAM 5MHz CH-High, 1 RB



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



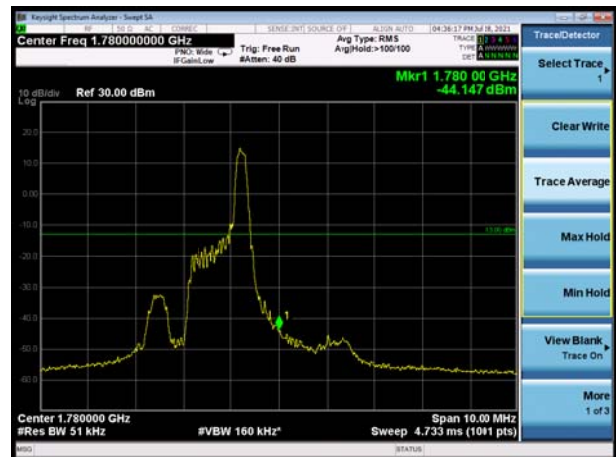
LTE eMTC Band 66 16QAM 5MHz CH-High, 100%RB



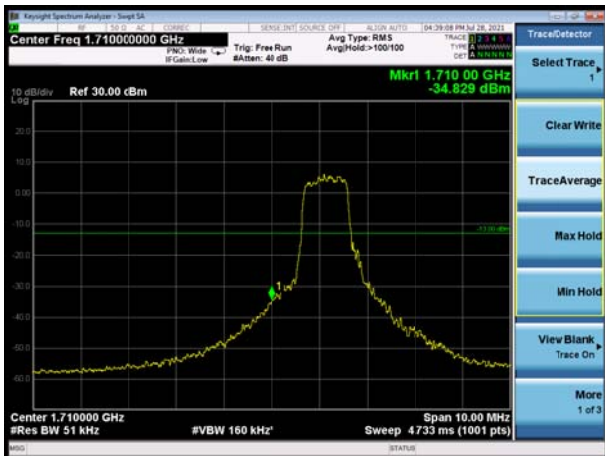
LTE eMTC Band 66 16QAM 10MHz CH-Low, 1 RB



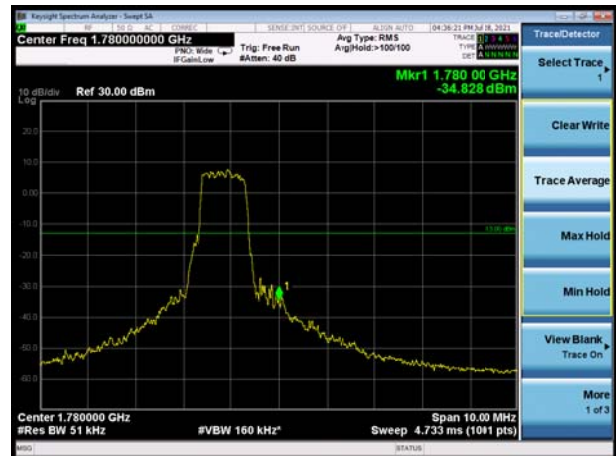
LTE eMTC Band 66 16QAM 10MHz CH-High, 1 RB



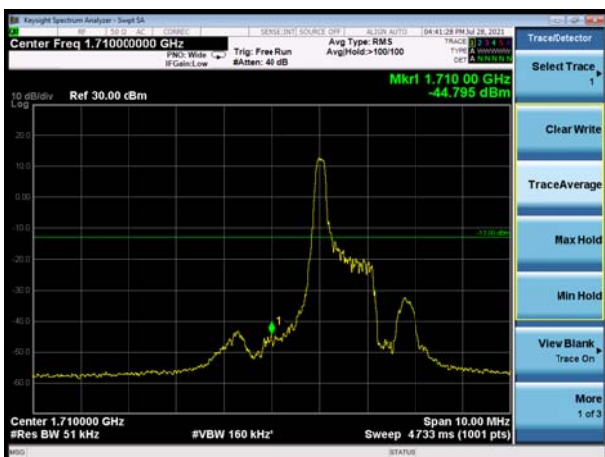
LTE eMTC Band 66 16QAM 10MHz CH-Low, 100%RB



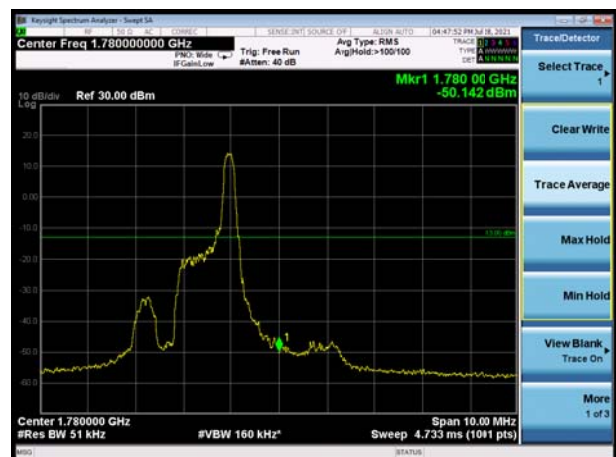
LTE eMTC Band 66 16QAM 10MHz CH-High, 100%RB



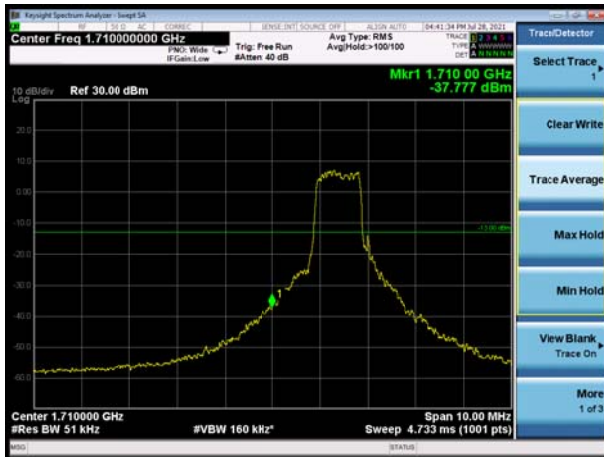
LTE eMTC Band 66 16QAM 15MHz CH-Low, 1 RB



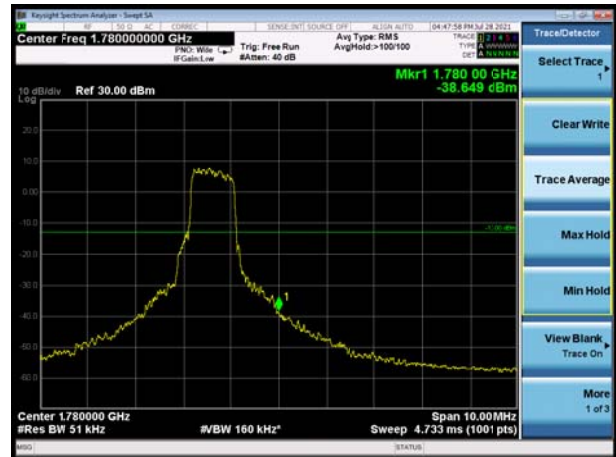
LTE eMTC Band 66 16QAM 15MHz CH-High, 1 RB



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



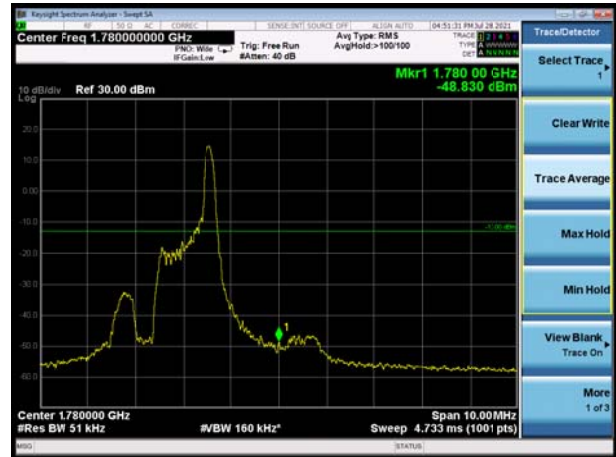
LTE eMTC Band 66 16QAM 15MHz CH-High, 100%RB



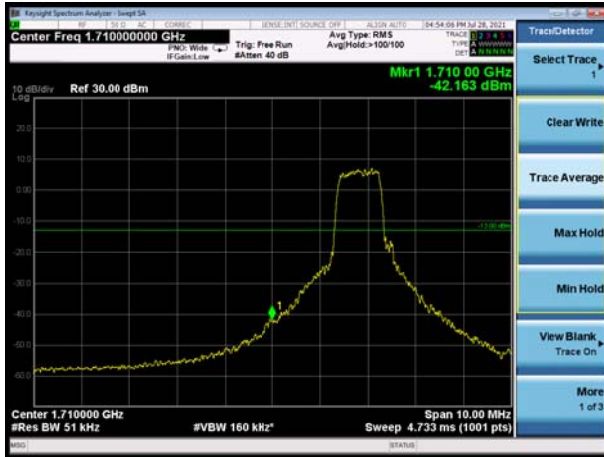
LTE eMTC Band 66 16QAM 20MHz CH-Low, 1 RB



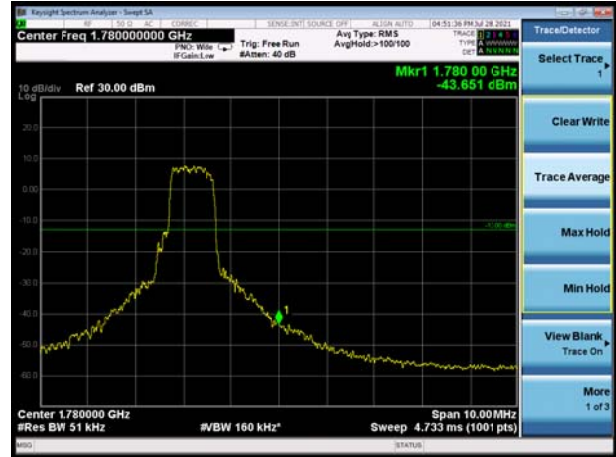
LTE eMTC Band 66 16QAM 20MHz CH-High, 1 RB



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



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



6.4 Peak-to-Average Power Ratio (PAPR)

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
				Peak(dBm)	Avg(dBm)	PAPR(dB)		
LTE eMTC Band4	1.4MHz	QPSK	20175/1732.5	25.80	14.65	11.15	≤13	PASS
		16QAM	20175/1732.5	26.42	14.34	12.08	≤13	PASS
	3MHz	QPSK	20175/1732.5	25.96	16.00	9.96	≤13	PASS
		16QAM	20175/1732.5	26.67	16.70	9.97	≤13	PASS
	5MHz	QPSK	20175/1732.5	26.94	17.21	9.73	≤13	PASS
		16QAM	20175/1732.5	26.60	15.47	11.13	≤13	PASS
	10MHz	QPSK	20175/1732.5	27.05	18.01	9.04	≤13	PASS
		16QAM	20175/1732.5	27.23	15.98	11.25	≤13	PASS
	15MHz	QPSK	20175/1732.5	27.72	19.22	8.50	≤13	PASS
		16QAM	20175/1732.5	28.01	18.32	9.69	≤13	PASS
20MHz	QPSK	20175/1732.5	27.67	18.59	9.08	≤13	PASS	
	16QAM	20175/1732.5	28.02	18.26	9.76	≤13	PASS	
Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
Peak(dBm)	Avg(dBm)	PAPR(dB)						
LTE eMTC Band12	1.4MHz	QPSK	23095/707.5	27.39	17.59	9.80	≤13	PASS
		16QAM	23095/707.5	27.23	16.29	10.94	≤13	PASS
	3MHz	QPSK	23095/707.5	26.79	17.19	9.60	≤13	PASS
		16QAM	23095/707.5	27.16	15.36	11.80	≤13	PASS
	5MHz	QPSK	23095/707.5	27.38	17.59	9.79	≤13	PASS
		16QAM	23095/707.5	27.44	17.28	10.16	≤13	PASS
	10MHz	QPSK	23095/707.5	27.52	17.82	9.70	≤13	PASS
		16QAM	23095/707.5	27.90	17.42	10.48	≤13	PASS
Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
Peak(dBm)	Avg(dBm)	PAPR(dB)						
LTE eMTC Band13	5MHz	QPSK	23230/782	27.59	18.03	9.56	≤13	PASS
		16QAM	23230/782	27.69	17.35	10.34	≤13	PASS
	10MHz	QPSK	23230/782	27.68	18.17	9.51	≤13	PASS
		16QAM	23230/782	28.15	18.03	10.12	≤13	PASS
Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)			Limit (dB)	Conclusion
Peak(dBm)	Avg(dBm)	PAPR(dB)						
LTE eMTC Band66	1.4MHz	QPSK	132322/1745	26.48	17.09	9.39	≤13	PASS
		16QAM	132322/1745	26.93	16.37	10.56	≤13	PASS
	3MHz	QPSK	132322/1745	26.03	15.19	10.84	≤13	PASS
		16QAM	132322/1745	26.93	16.83	10.10	≤13	PASS

5MHz	QPSK	132322/1745	27.13	17.65	9.48	≤13	PASS
	16QAM	132322/1745	26.80	15.62	11.18	≤13	PASS
10MHz	QPSK	132322/1745	27.14	17.78	9.36	≤13	PASS
	16QAM	132322/1745	27.64	17.89	9.75	≤13	PASS
15MHz	QPSK	132322/1745	27.84	19.22	8.62	≤13	PASS
	16QAM	132322/1745	28.12	16.86	11.26	≤13	PASS
20MHz	QPSK	132322/1745	27.82	18.97	8.85	≤13	PASS
	16QAM	132322/1745	28.25	18.47	9.78	≤13	PASS

6.5 Frequency Stability

LTE eMTC Band 4						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal (25°C)	Normal	5.85	12.77	0.00337	0.00737	PASS
Extreme (75°C)		11.94	16.39	0.00689	0.00946	PASS
Extreme (70°C)		12.23	10.20	0.00706	0.00589	PASS
Extreme (60°C)		7.71	16.19	0.00445	0.00935	PASS
Extreme (50°C)		16.17	14.58	0.00933	0.00841	PASS
Extreme (40°C)		14.54	11.41	0.00839	0.00658	PASS
Extreme (30°C)		9.77	13.26	0.00564	0.00765	PASS
Extreme (20°C)		4.83	11.07	0.00279	0.00639	PASS
Extreme (10°C)		5.88	16.75	0.00340	0.00967	PASS
Extreme (0°C)		3.03	7.94	0.00175	0.00458	PASS
Extreme (-10°C)		7.87	8.31	0.00454	0.00480	PASS
Extreme (-20°C)		5.02	7.26	0.00290	0.00419	PASS
Extreme (-30°C)		6.83	5.50	0.00394	0.00317	PASS
Extreme (-35°C)		10.13	8.37	0.00584	0.00483	PASS
25°C	LV	10.52	6.25	0.00607	0.00361	PASS
	HV	10.45	5.57	0.00603	0.00322	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz	16QAM	QPSK	16QAM	QPSK	
Temperature	Voltage					
Normal (25°C)	Normal	16.44	11.35	0.00949	0.00655	PASS
Extreme (75°C)		12.97	1.37	0.00748	0.00079	PASS
Extreme (70°C)		5.12	2.29	0.00295	0.00132	PASS
Extreme (60°C)		1.16	2.54	0.00067	0.00146	PASS
Extreme (50°C)		17.20	1.82	0.00993	0.00105	PASS
Extreme (40°C)		2.46	15.90	0.00142	0.00918	PASS
Extreme (30°C)		8.35	15.64	0.00482	0.00903	PASS
Extreme (20°C)		17.53	2.63	0.01012	0.00152	PASS
Extreme (10°C)		15.46	4.93	0.00892	0.00285	PASS
Extreme (0°C)		8.59	1.65	0.00496	0.00095	PASS
Extreme (-10°C)		11.32	3.87	0.00653	0.00223	PASS
Extreme (-20°C)		9.28	3.30	0.00536	0.00190	PASS
Extreme (-30°C)		13.71	3.65	0.00791	0.00210	PASS
Extreme (-35°C)		1.91	15.21	0.00110	0.00878	PASS

25°C	LV	17.20	9.24	0.00993	0.00533	PASS
	HV	2.71	16.40	0.00156	0.00947	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	8.76	3.93	0.00506	0.00227	PASS
Extreme (75°C)		7.90	11.78	0.00456	0.00680	PASS
Extreme (70°C)		5.19	8.13	0.00300	0.00469	PASS
Extreme (60°C)		16.67	1.98	0.00962	0.00114	PASS
Extreme (50°C)		14.64	5.52	0.00845	0.00319	PASS
Extreme (40°C)		1.57	7.73	0.00091	0.00446	PASS
Extreme (30°C)		2.44	10.75	0.00141	0.00620	PASS
Extreme (20°C)		9.64	1.05	0.00556	0.00061	PASS
Extreme (10°C)		9.06	17.27	0.00523	0.00997	PASS
Extreme (0°C)		7.49	17.14	0.00432	0.00989	PASS
Extreme (-10°C)		2.50	13.00	0.00144	0.00750	PASS
Extreme (-20°C)		8.63	6.08	0.00498	0.00351	PASS
Extreme (-30°C)		12.11	9.04	0.00699	0.00522	PASS
Extreme (-35°C)		1.17	3.99	0.00068	0.00230	PASS
25°C	LV	15.73	15.59	0.00908	0.00900	PASS
	HV	9.70	5.38	0.00560	0.00310	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	2.23	2.99	0.00129	0.00173	PASS
Extreme (75°C)		3.32	16.49	0.00192	0.00952	PASS
Extreme (70°C)		10.81	16.01	0.00624	0.00924	PASS
Extreme (60°C)		8.79	9.82	0.00508	0.00567	PASS
Extreme (50°C)		10.37	3.47	0.00598	0.00200	PASS
Extreme (40°C)		15.18	7.87	0.00876	0.00454	PASS
Extreme (30°C)		11.51	1.19	0.00664	0.00069	PASS
Extreme (20°C)		9.00	2.44	0.00519	0.00141	PASS
Extreme (10°C)		10.03	6.60	0.00579	0.00381	PASS
Extreme (0°C)		9.88	7.87	0.00570	0.00454	PASS
Extreme (-10°C)		16.36	16.40	0.00944	0.00947	PASS
Extreme (-20°C)		2.61	15.12	0.00151	0.00873	PASS
Extreme (-30°C)		5.70	8.36	0.00329	0.00483	PASS
Extreme (-35°C)		5.78	12.08	0.00334	0.00697	PASS
25°C	LV	11.63	6.36	0.00671	0.00367	PASS
	HV	12.08	8.00	0.00697	0.00462	PASS

Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	11.12	3.01	0.00642	0.00174	PASS
Extreme (75°C)		11.71	5.74	0.00676	0.00331	PASS
Extreme (70°C)		11.49	7.90	0.00663	0.00456	PASS
Extreme (60°C)		17.84	10.75	0.01029	0.00620	PASS
Extreme (50°C)		12.12	3.91	0.00699	0.00226	PASS
Extreme (40°C)		9.54	12.12	0.00551	0.00699	PASS
Extreme (30°C)		15.61	10.21	0.00901	0.00589	PASS
Extreme (20°C)		3.72	17.46	0.00215	0.01008	PASS
Extreme (10°C)		4.27	5.81	0.00247	0.00335	PASS
Extreme (0°C)		16.46	15.29	0.00950	0.00882	PASS
Extreme (-10°C)		11.54	4.79	0.00666	0.00277	PASS
Extreme (-20°C)		14.65	7.35	0.00846	0.00424	PASS
Extreme (-30°C)		4.12	14.00	0.00238	0.00808	PASS
Extreme (-35°C)		14.97	10.30	0.00864	0.00595	PASS
25°C		LV	5.66	1.36	0.00327	0.00079
	HV	12.65	3.75	0.00730	0.00216	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	12.47	4.10	0.00720	0.00237	PASS
Extreme (75°C)		3.02	6.67	0.00175	0.00385	PASS
Extreme (70°C)		2.31	8.53	0.00133	0.00492	PASS
Extreme (60°C)		1.67	16.73	0.00097	0.00966	PASS
Extreme (50°C)		6.16	3.54	0.00356	0.00204	PASS
Extreme (40°C)		14.12	11.48	0.00815	0.00663	PASS
Extreme (30°C)		2.65	10.23	0.00153	0.00590	PASS
Extreme (20°C)		14.79	13.49	0.00854	0.00779	PASS
Extreme (10°C)		7.34	14.56	0.00423	0.00841	PASS
Extreme (0°C)		4.85	1.16	0.00280	0.00067	PASS
Extreme (-10°C)		6.11	13.13	0.00353	0.00758	PASS
Extreme (-20°C)		10.30	9.27	0.00594	0.00535	PASS
Extreme (-30°C)		6.77	14.45	0.00391	0.00834	PASS
Extreme (-35°C)		2.10	10.93	0.00121	0.00631	PASS
25°C		LV	3.19	15.74	0.00184	0.00909
	HV	3.29	12.31	0.00190	0.00711	PASS

LTE eMTC Band 12						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	16.28	7.14	0.02300	0.01009	PASS
Extreme (75°C)		11.12	14.47	0.01571	0.02045	PASS
Extreme (70°C)		5.25	1.70	0.00741	0.00240	PASS
Extreme (60°C)		12.24	4.01	0.01730	0.00566	PASS
Extreme (50°C)		15.70	13.04	0.02219	0.01843	PASS
Extreme (40°C)		10.90	9.34	0.01541	0.01320	PASS
Extreme (30°C)		9.74	2.13	0.01376	0.00302	PASS
Extreme (20°C)		13.91	6.76	0.01967	0.00956	PASS
Extreme (10°C)		17.91	7.01	0.02531	0.00990	PASS
Extreme (0°C)		1.89	7.87	0.00267	0.01112	PASS
Extreme (-10°C)		7.49	15.42	0.01059	0.02179	PASS
Extreme (-20°C)		15.37	9.25	0.02173	0.01308	PASS
Extreme (-30°C)		7.91	4.10	0.01118	0.00580	PASS
Extreme (-35°C)		1.71	16.71	0.00242	0.02361	PASS
25°C		LV	14.24	16.94	0.02012	0.02395
	HV	14.02	11.83	0.01981	0.01672	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	16.15	9.41	0.02283	0.01330	PASS
Extreme (75°C)		12.53	14.47	0.01771	0.02045	PASS
Extreme (70°C)		14.74	4.20	0.02083	0.00594	PASS
Extreme (60°C)		7.35	13.63	0.01039	0.01926	PASS
Extreme (50°C)		11.61	12.01	0.01640	0.01697	PASS
Extreme (40°C)		7.27	1.79	0.01027	0.00253	PASS
Extreme (30°C)		13.43	13.96	0.01899	0.01973	PASS
Extreme (20°C)		10.15	13.58	0.01435	0.01920	PASS
Extreme (10°C)		14.81	9.66	0.02093	0.01365	PASS
Extreme (0°C)		3.24	14.59	0.00458	0.02062	PASS
Extreme (-10°C)		9.44	16.18	0.01334	0.02287	PASS
Extreme (-20°C)		14.40	6.77	0.02036	0.00957	PASS
Extreme (-30°C)		11.57	10.94	0.01636	0.01547	PASS
Extreme (-35°C)		6.45	2.58	0.00912	0.00364	PASS
25°C		LV	11.02	16.66	0.01557	0.02355
	HV	14.49	8.43	0.02049	0.01191	PASS
Condition		Freq.Error	Freq.Error	Frequency	Frequency	Verdict

		(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	10.32	2.74	0.01458	0.00387	PASS
Extreme (75°C)		2.93	7.51	0.00414	0.01062	PASS
Extreme (70°C)		14.16	16.34	0.02001	0.02310	PASS
Extreme (60°C)		14.75	17.18	0.02085	0.02428	PASS
Extreme (50°C)		10.45	13.70	0.01477	0.01936	PASS
Extreme (40°C)		5.37	9.48	0.00759	0.01339	PASS
Extreme (30°C)		1.51	14.42	0.00213	0.02038	PASS
Extreme (20°C)		1.76	15.10	0.00249	0.02134	PASS
Extreme (10°C)		9.12	15.63	0.01288	0.02209	PASS
Extreme (0°C)		9.64	11.95	0.01362	0.01689	PASS
Extreme (-10°C)		7.56	3.83	0.01068	0.00542	PASS
Extreme (-20°C)		11.38	16.48	0.01608	0.02329	PASS
Extreme (-30°C)		17.32	9.17	0.02448	0.01296	PASS
Extreme (-35°C)		1.37	12.47	0.00193	0.01763	PASS
25°C		LV	5.34	15.50	0.00755	0.02191
	HV	5.72	17.06	0.00809	0.02411	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	5.92	15.90	0.00836	0.02248	PASS
Extreme (75°C)		1.52	13.10	0.00215	0.01851	PASS
Extreme (70°C)		14.62	3.00	0.02066	0.00425	PASS
Extreme (60°C)		12.04	2.21	0.01701	0.00312	PASS
Extreme (50°C)		14.53	3.05	0.02054	0.00431	PASS
Extreme (40°C)		17.02	6.96	0.02406	0.00984	PASS
Extreme (30°C)		7.21	11.00	0.01018	0.01555	PASS
Extreme (20°C)		10.95	3.57	0.01548	0.00504	PASS
Extreme (10°C)		10.10	6.51	0.01428	0.00920	PASS
Extreme (0°C)		14.90	4.08	0.02107	0.00577	PASS
Extreme (-10°C)		10.45	7.36	0.01477	0.01040	PASS
Extreme (-20°C)		6.72	14.96	0.00950	0.02115	PASS
Extreme (-30°C)		3.36	13.58	0.00475	0.01919	PASS
Extreme (-35°C)		8.00	8.10	0.01130	0.01145	PASS
25°C		LV	12.40	4.15	0.01753	0.00587
	HV	11.60	3.05	0.01639	0.00430	PASS

LTE eMTC Band 13						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	4.98	2.16	0.00636	0.00115	PASS
Extreme (75°C)		6.61	10.04	0.00846	0.00534	PASS
Extreme (70°C)		2.14	15.80	0.00273	0.00840	PASS
Extreme (60°C)		2.61	4.19	0.00334	0.00223	PASS
Extreme (50°C)		1.62	15.21	0.00207	0.00809	PASS
Extreme (40°C)		3.13	2.35	0.00400	0.00125	PASS
Extreme (30°C)		3.51	4.67	0.00449	0.00248	PASS
Extreme (20°C)		5.66	4.57	0.00724	0.00243	PASS
Extreme (10°C)		2.80	6.38	0.00359	0.00339	PASS
Extreme (0°C)		13.62	11.30	0.01742	0.00601	PASS
Extreme (-10°C)		9.15	14.89	0.01170	0.00792	PASS
Extreme (-20°C)		5.71	6.58	0.00731	0.00350	PASS
Extreme (-30°C)		10.94	13.39	0.01400	0.00712	PASS
Extreme (-35°C)		13.75	6.41	0.01758	0.00341	PASS
25°C	LV	7.34	12.59	0.00939	0.00670	PASS
	HV	16.56	1.20	0.02118	0.00064	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	7.76	3.67	0.00992	0.00195	PASS
Extreme (75°C)		3.18	10.13	0.00407	0.00539	PASS
Extreme (70°C)		8.78	11.03	0.01122	0.00587	PASS
Extreme (60°C)		8.79	6.77	0.01124	0.00360	PASS
Extreme (50°C)		3.88	15.09	0.00497	0.00802	PASS
Extreme (40°C)		14.44	8.45	0.01846	0.00449	PASS
Extreme (30°C)		2.87	6.80	0.00367	0.00361	PASS
Extreme (20°C)		4.04	4.84	0.00516	0.00258	PASS
Extreme (10°C)		10.31	11.39	0.01318	0.00606	PASS
Extreme (0°C)		14.51	8.75	0.01855	0.00466	PASS
Extreme (-10°C)		11.03	13.33	0.01410	0.00709	PASS
Extreme (-20°C)		6.74	5.73	0.00861	0.00305	PASS
Extreme (-30°C)		15.25	12.26	0.01950	0.00652	PASS
Extreme (-35°C)		9.62	17.71	0.01230	0.00942	PASS
25°C	LV	6.91	7.40	0.00884	0.00393	PASS
	HV	10.76	13.61	0.01377	0.00724	PASS

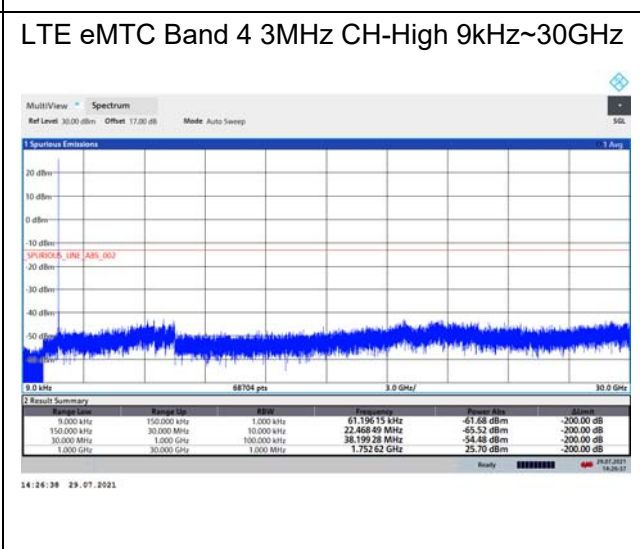
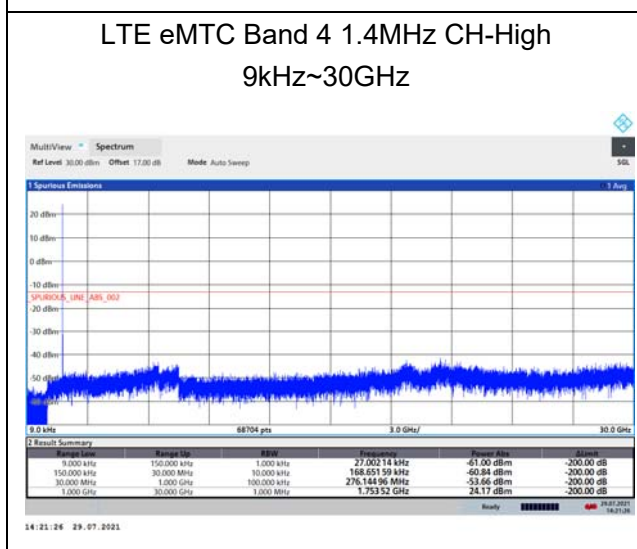
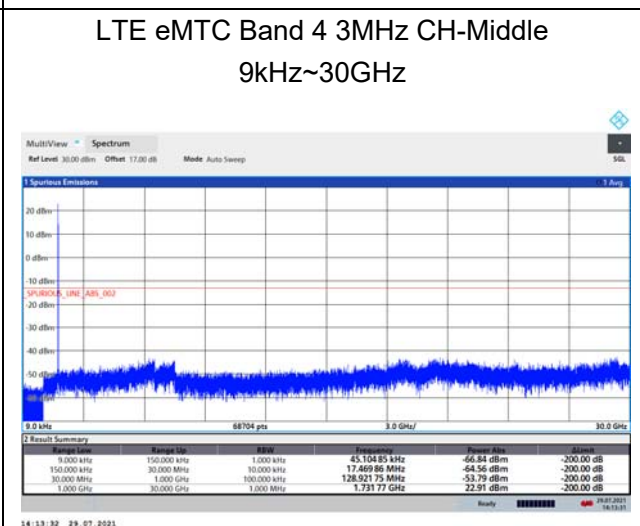
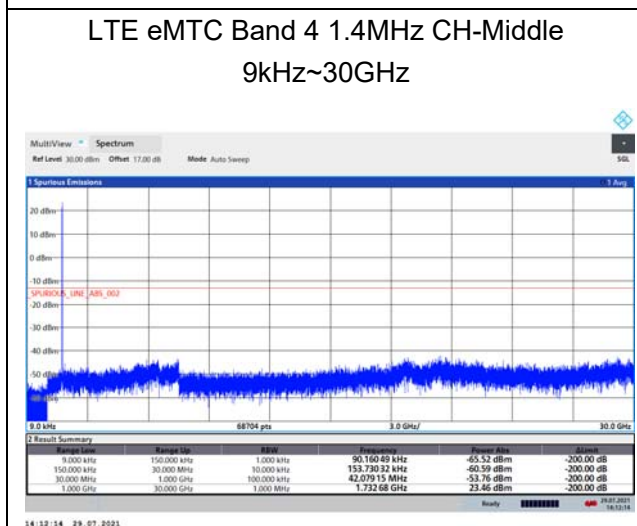
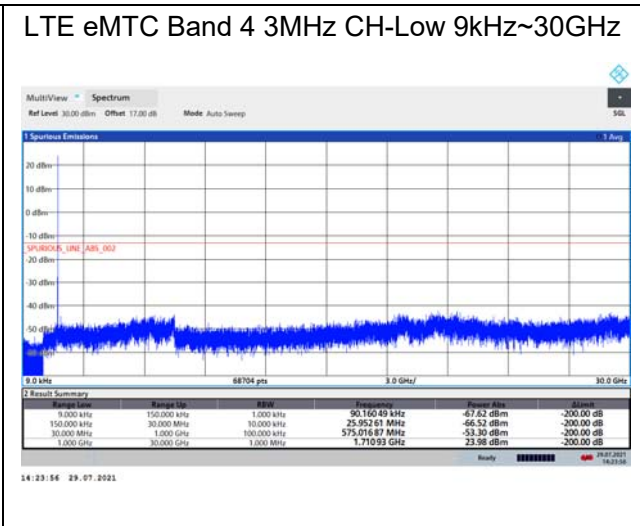
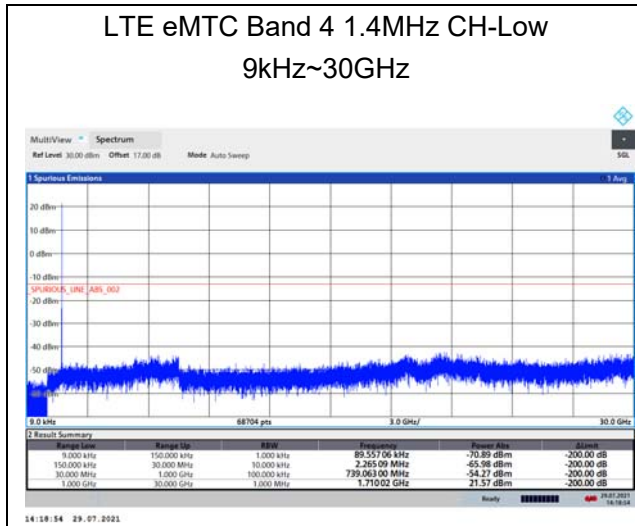
LTE eMTC Band 66						
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	2.27	11.39	0.00130	0.00653	PASS
Extreme (75°C)		16.29	12.71	0.00934	0.00729	PASS
Extreme (70°C)		1.79	2.72	0.00103	0.00156	PASS
Extreme (60°C)		10.16	13.90	0.00583	0.00796	PASS
Extreme (50°C)		1.46	5.74	0.00084	0.00329	PASS
Extreme (40°C)		10.20	10.21	0.00584	0.00585	PASS
Extreme (30°C)		17.58	1.07	0.01007	0.00061	PASS
Extreme (20°C)		12.10	10.35	0.00693	0.00593	PASS
Extreme (10°C)		6.51	14.97	0.00373	0.00858	PASS
Extreme (0°C)		4.82	3.48	0.00276	0.00200	PASS
Extreme (-10°C)		16.30	2.30	0.00934	0.00132	PASS
Extreme (-20°C)		15.32	12.90	0.00878	0.00739	PASS
Extreme (-30°C)		11.97	9.04	0.00686	0.00518	PASS
Extreme (-35°C)		4.23	10.31	0.00243	0.00591	PASS
25°C	LV	13.05	2.34	0.00748	0.00134	PASS
	HV	17.15	10.25	0.00983	0.00587	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	2.96	4.12	0.00170	0.00236	PASS
Extreme (75°C)		16.44	15.30	0.00942	0.00877	PASS
Extreme (70°C)		2.29	11.70	0.00131	0.00671	PASS
Extreme (60°C)		2.35	7.10	0.00134	0.00407	PASS
Extreme (50°C)		7.93	3.14	0.00455	0.00180	PASS
Extreme (40°C)		14.13	4.96	0.00810	0.00284	PASS
Extreme (30°C)		14.23	17.77	0.00816	0.01018	PASS
Extreme (20°C)		8.07	8.08	0.00463	0.00463	PASS
Extreme (10°C)		12.66	8.62	0.00725	0.00494	PASS
Extreme (0°C)		4.69	3.43	0.00269	0.00196	PASS
Extreme (-10°C)		7.88	14.73	0.00451	0.00844	PASS
Extreme (-20°C)		2.84	13.30	0.00163	0.00762	PASS
Extreme (-30°C)		11.37	12.82	0.00652	0.00735	PASS
Extreme (-35°C)		8.91	3.92	0.00511	0.00225	PASS
25°C	LV	17.38	2.82	0.00996	0.00161	PASS
	HV	8.85	16.74	0.00507	0.00959	PASS
Condition		Freq.Error	Freq.Error	Frequency	Frequency	Verdict

BANDWIDTH		5MHz	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Verdict
Temperature		Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)		Normal	10.79	5.45	0.00618	0.00312	PASS
Extreme (75°C)			10.85	16.40	0.00622	0.00940	PASS
Extreme (70°C)			6.20	3.75	0.00355	0.00215	PASS
Extreme (60°C)			13.95	15.96	0.00800	0.00915	PASS
Extreme (50°C)			5.26	10.90	0.00301	0.00624	PASS
Extreme (40°C)			17.73	3.23	0.01016	0.00185	PASS
Extreme (30°C)			13.29	9.84	0.00761	0.00564	PASS
Extreme (20°C)			9.01	4.96	0.00516	0.00284	PASS
Extreme (10°C)			3.05	12.47	0.00175	0.00715	PASS
Extreme (0°C)			10.91	15.47	0.00625	0.00886	PASS
Extreme (-10°C)			12.93	11.46	0.00741	0.00657	PASS
Extreme (-20°C)			7.38	2.85	0.00423	0.00163	PASS
Extreme (-30°C)			8.73	12.01	0.00500	0.00688	PASS
Extreme (-35°C)			1.93	14.99	0.00111	0.00859	PASS
25°C			LV	13.46	8.02	0.00771	0.00460
		HV	3.83	1.31	0.00220	0.00075	PASS
Condition			Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH		10MHz					
Temperature		Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)		Normal	15.47	14.78	0.00887	0.00847	PASS
Extreme (75°C)			8.54	10.02	0.00490	0.00574	PASS
Extreme (70°C)			14.35	17.81	0.00822	0.01021	PASS
Extreme (60°C)			4.37	3.41	0.00251	0.00195	PASS
Extreme (50°C)			3.13	4.06	0.00179	0.00233	PASS
Extreme (40°C)			11.61	13.47	0.00666	0.00772	PASS
Extreme (30°C)			6.21	7.03	0.00356	0.00403	PASS
Extreme (20°C)			10.52	2.12	0.00603	0.00122	PASS
Extreme (10°C)			2.46	6.03	0.00141	0.00346	PASS
Extreme (0°C)			8.58	2.30	0.00492	0.00132	PASS
Extreme (-10°C)			6.48	3.19	0.00371	0.00183	PASS
Extreme (-20°C)			13.91	9.40	0.00797	0.00539	PASS
Extreme (-30°C)			16.95	10.58	0.00972	0.00606	PASS
Extreme (-35°C)			6.44	16.31	0.00369	0.00935	PASS
25°C			LV	6.66	5.56	0.00382	0.00319
		HV	14.78	5.23	0.00847	0.00300	PASS
Condition			Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability	Frequency Stability	Verdict

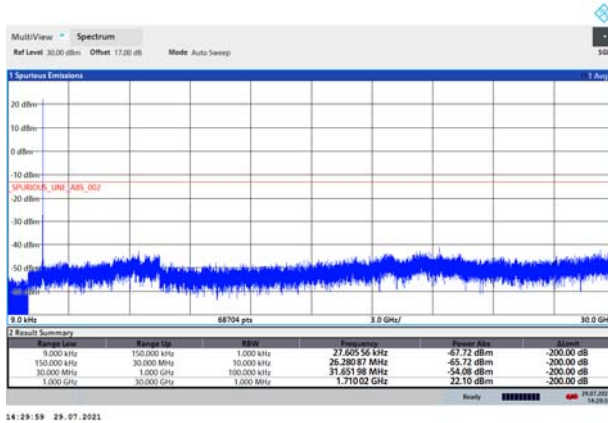
BANDWIDTH	15MHz			(ppm)	(ppm)	
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	8.64	15.39	0.00495	0.00882	PASS
Extreme (75°C)		4.64	2.85	0.00266	0.00163	PASS
Extreme (70°C)		14.23	3.27	0.00815	0.00187	PASS
Extreme (60°C)		7.99	13.11	0.00458	0.00751	PASS
Extreme (50°C)		17.42	13.86	0.00998	0.00795	PASS
Extreme (40°C)		9.54	13.93	0.00547	0.00798	PASS
Extreme (30°C)		10.04	13.03	0.00575	0.00747	PASS
Extreme (20°C)		9.14	10.71	0.00524	0.00614	PASS
Extreme (10°C)		12.84	6.79	0.00736	0.00389	PASS
Extreme (0°C)		14.32	16.94	0.00820	0.00971	PASS
Extreme (-10°C)		8.00	16.06	0.00458	0.00921	PASS
Extreme (-20°C)		13.66	8.29	0.00783	0.00475	PASS
Extreme (-30°C)		9.72	14.31	0.00557	0.00820	PASS
Extreme (-35°C)		7.00	16.87	0.00401	0.00967	PASS
25°C	LV	9.29	8.93	0.00533	0.00512	PASS
	HV	2.96	12.13	0.00169	0.00695	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz					
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)	Normal	16.09	7.78	0.00922	0.00446	PASS
Extreme (75°C)		1.30	15.24	0.00074	0.00874	PASS
Extreme (70°C)		4.76	4.54	0.00273	0.00260	PASS
Extreme (60°C)		16.15	11.85	0.00925	0.00679	PASS
Extreme (50°C)		15.85	14.28	0.00908	0.00818	PASS
Extreme (40°C)		5.96	12.55	0.00341	0.00719	PASS
Extreme (30°C)		8.76	4.11	0.00502	0.00235	PASS
Extreme (20°C)		10.91	14.17	0.00625	0.00812	PASS
Extreme (10°C)		14.87	3.50	0.00852	0.00200	PASS
Extreme (0°C)		15.45	9.56	0.00885	0.00548	PASS
Extreme (-10°C)		16.96	1.38	0.00972	0.00079	PASS
Extreme (-20°C)		9.22	6.39	0.00528	0.00366	PASS
Extreme (-30°C)		9.57	16.14	0.00548	0.00925	PASS
Extreme (-35°C)		3.89	11.04	0.00223	0.00633	PASS
25°C	LV	15.42	10.67	0.00884	0.00612	PASS
	HV	16.06	4.56	0.00921	0.00261	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.

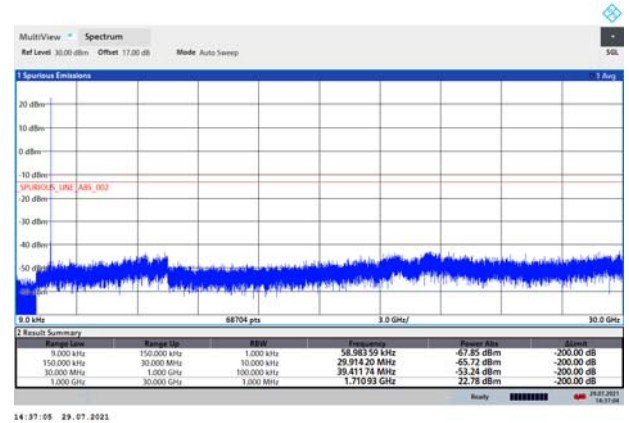


LTE eMTC Band 4 5MHz CH-Low 9kHz~30GHz



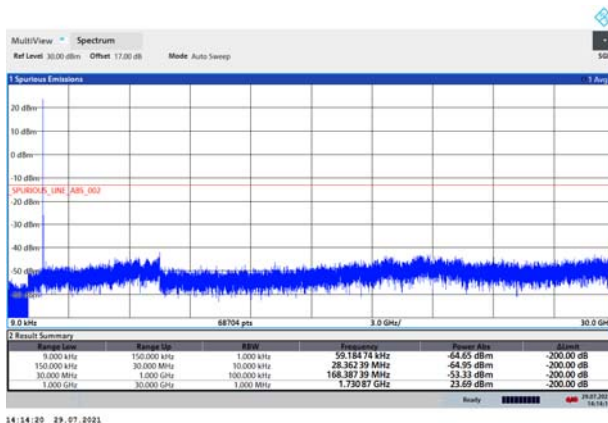
14:29:59 29-07-2021

LTE eMTC Band 4 10MHz CH-Low 9kHz~30GHz



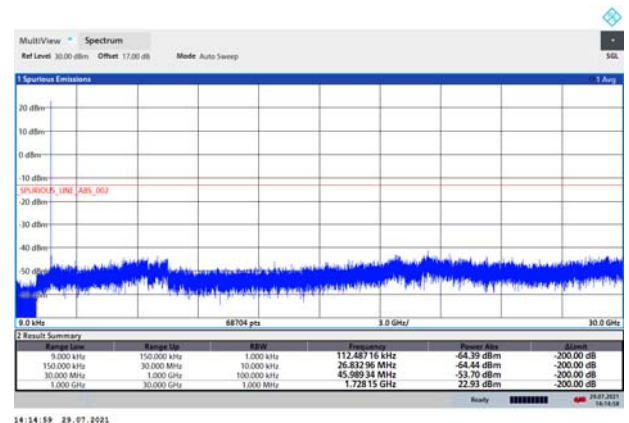
14:37:05 29-07-2021

LTE eMTC Band 4 5MHz CH-Middle 9kHz~30GHz



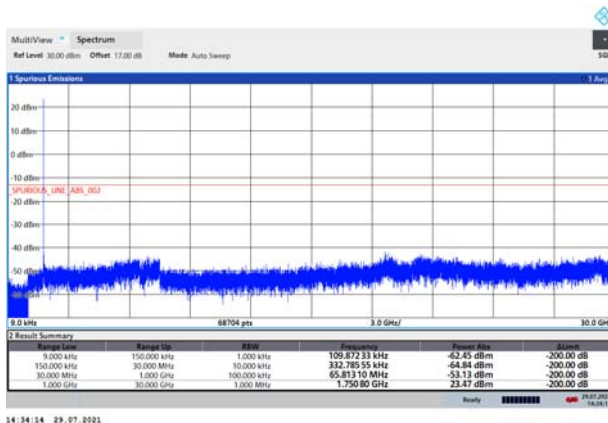
14:14:20 29-07-2021

LTE eMTC Band 4 10MHz CH-Middle 9kHz~30GHz



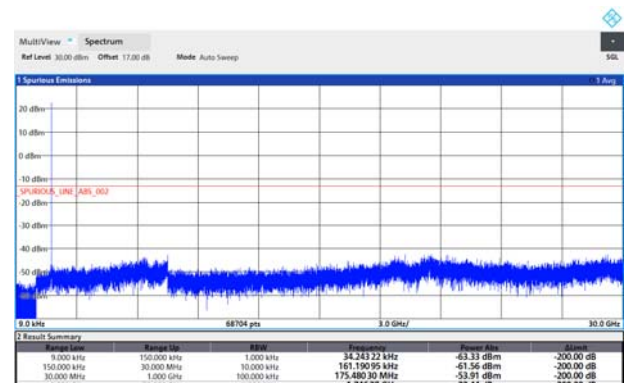
14:14:59 29-07-2021

LTE eMTC Band 4 5MHz CH-High 9kHz~30GHz



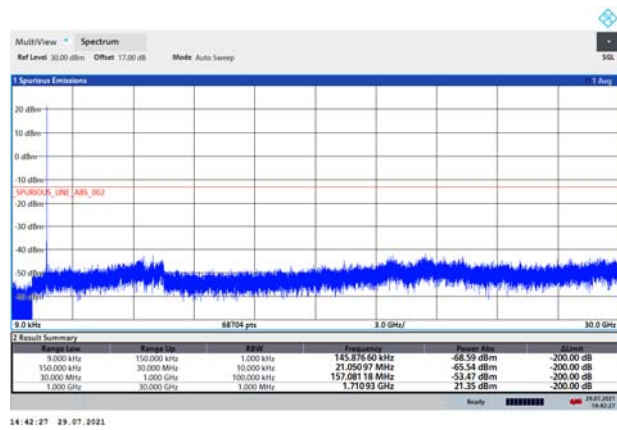
14:34:14 29-07-2021

LTE eMTC Band 4 10MHz CH-High 9kHz~30GHz



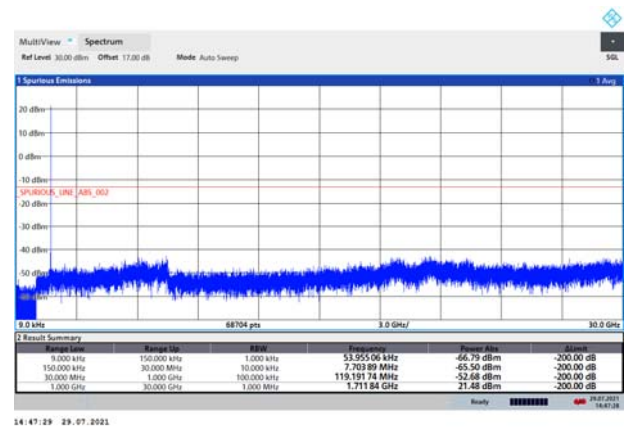
14:39:37 29-07-2021

LTE eMTC Band 4 15MHz CH-Low 9kHz~30GHz



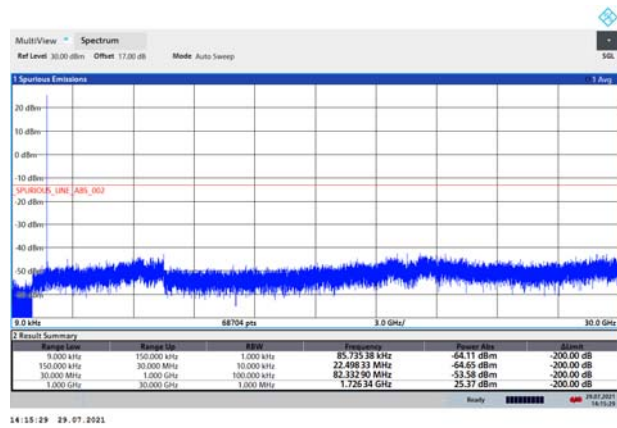
14:42:27 29-07-2021

LTE eMTC Band 4 20MHz CH-Low 9kHz~30GHz



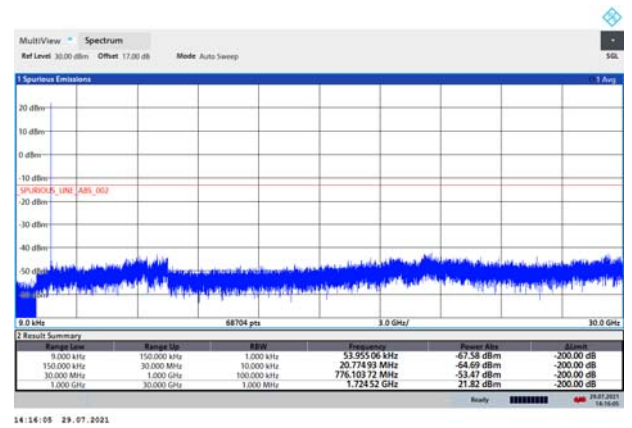
14:47:29 29-07-2021

LTE eMTC Band 4 15MHz CH-Middle 9kHz~30GHz



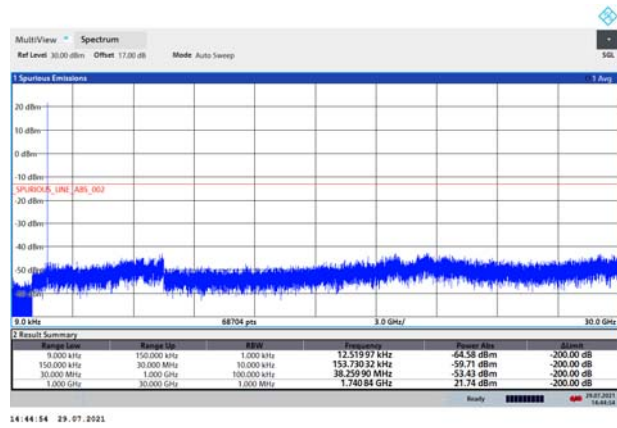
14:15:29 29-07-2021

LTE eMTC Band 4 20MHz CH-Middle 9kHz~30GHz



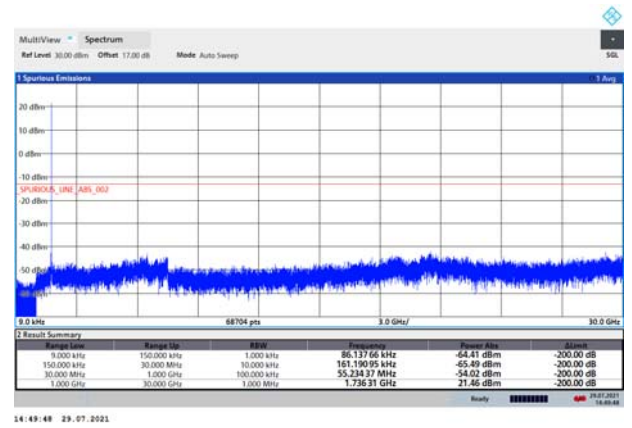
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LTE eMTC Band 4 15MHz CH-High 9kHz~30GHz



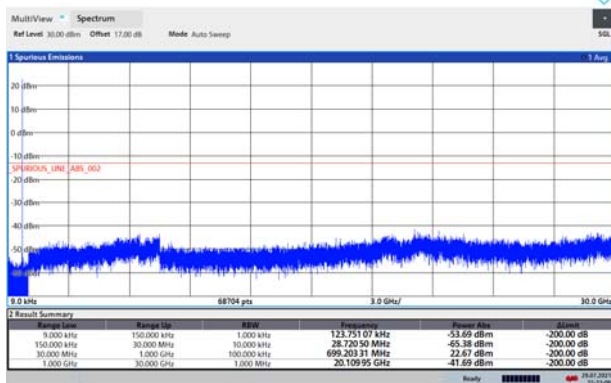
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LTE eMTC Band 4 20MHz CH-High 9kHz~30GHz



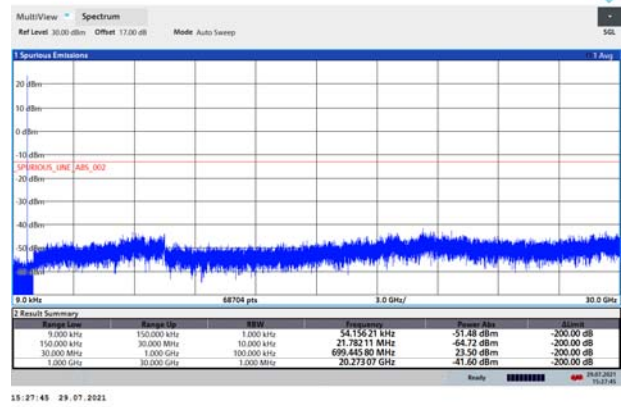
14:49:49 29-07-2021

LTE eMTC Band 12 1.4MHz CH-Low
9kHz~30GHz



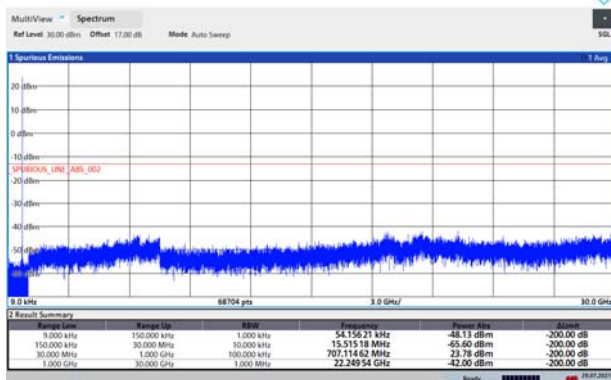
15:23:07 29.07.2021

LTE eMTC Band 12 3MHz CH-Low 9kHz~30GHz



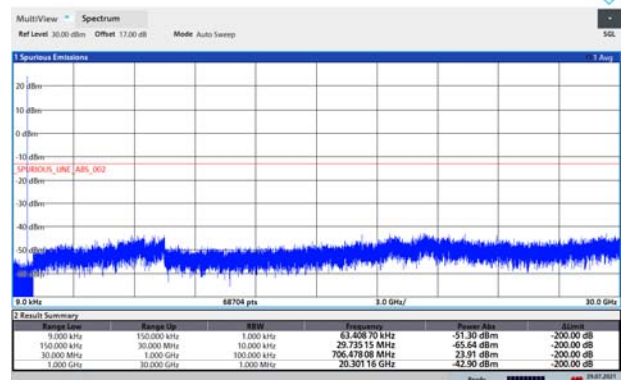
15:27:48 29.07.2021

LTE eMTC Band 12 1.4MHz CH-Middle
9kHz~30GHz



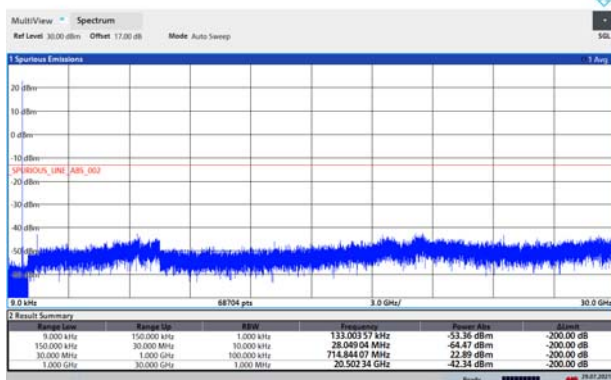
15:19:30 29.07.2021

LTE eMTC Band 12 3MHz CH-Middle
9kHz~30GHz



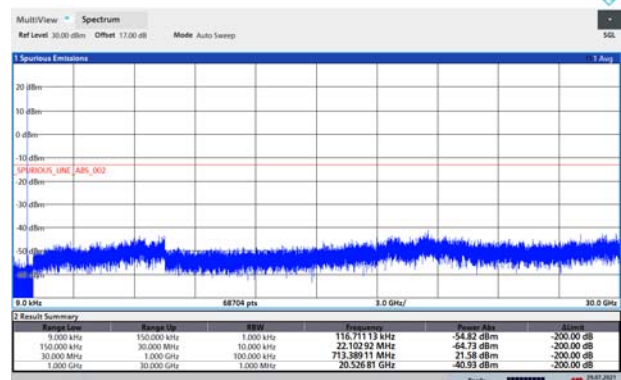
15:20:07 29.07.2021

LTE eMTC Band 12 1.4MHz CH-High
9kHz~30GHz



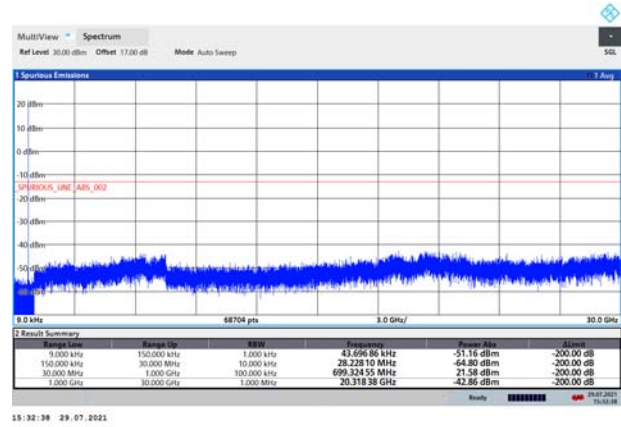
15:15:33 29.07.2021

LTE eMTC Band 12 3MHz CH-High
9kHz~30GHz



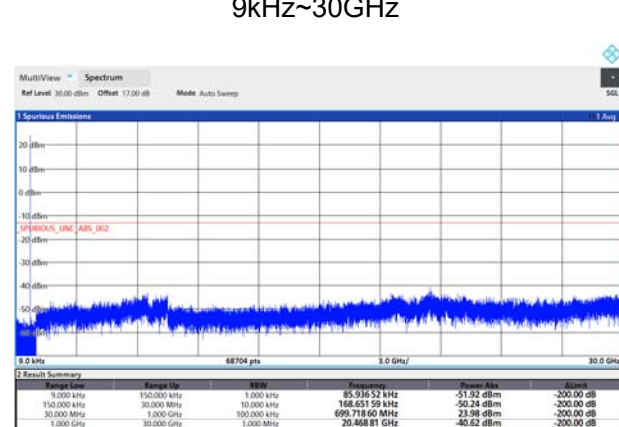
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LTE eMTC Band 12 5MHz CH-Low 9kHz~30GHz



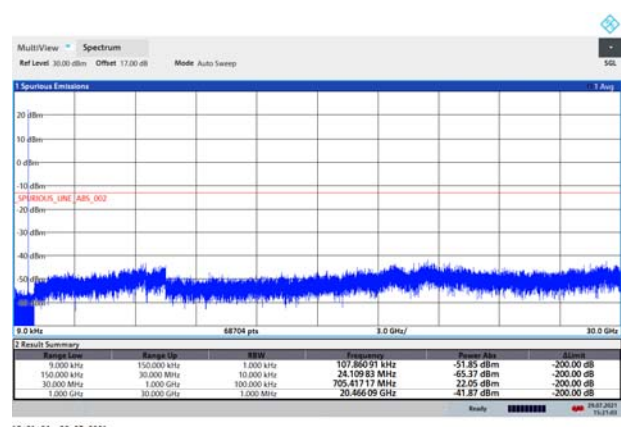
15:32:39 29.07.2021

LTE eMTC Band 12 10MHz CH-Low 9kHz~30GHz



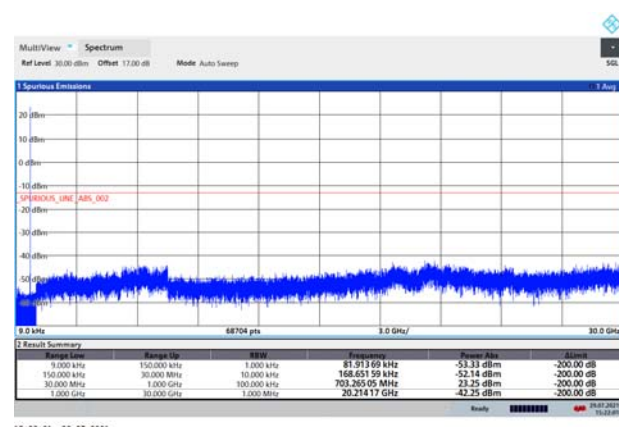
15:38:29 29.07.2021

LTE eMTC Band 12 5MHz CH-Middle 9kHz~30GHz



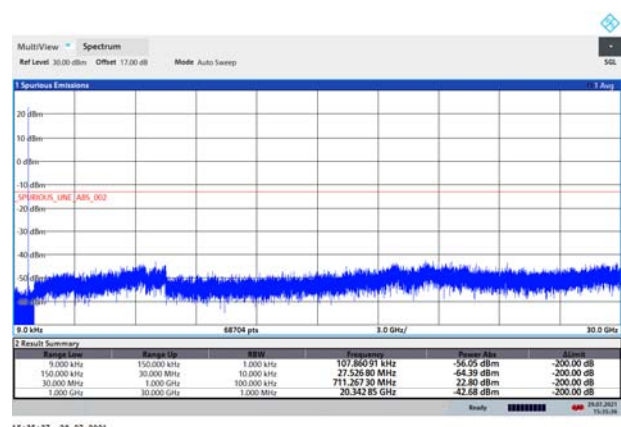
15:21:04 29.07.2021

LTE eMTC Band 12 10MHz CH-Middle 9kHz~30GHz



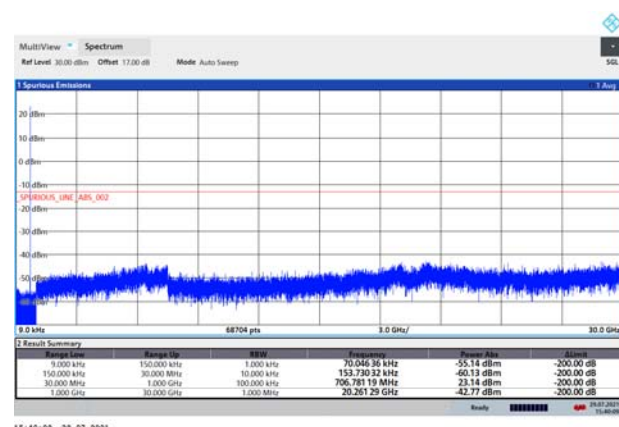
15:22:01 29.07.2021

LTE eMTC Band 12 5MHz CH-High 9kHz~30GHz



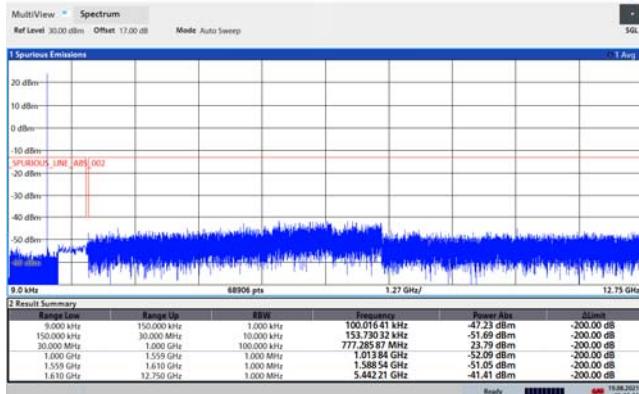
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LTE eMTC Band 12 10MHz CH-High 9kHz~30GHz



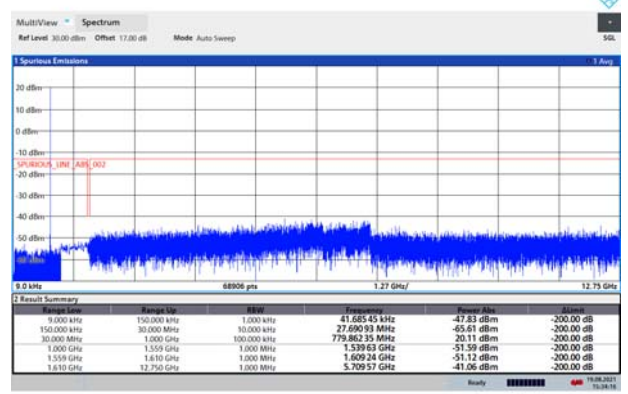
15:40:09 29.07.2021

LTE eMTC Band 13 5MHz CH-Low
9kHz~12.75GHz



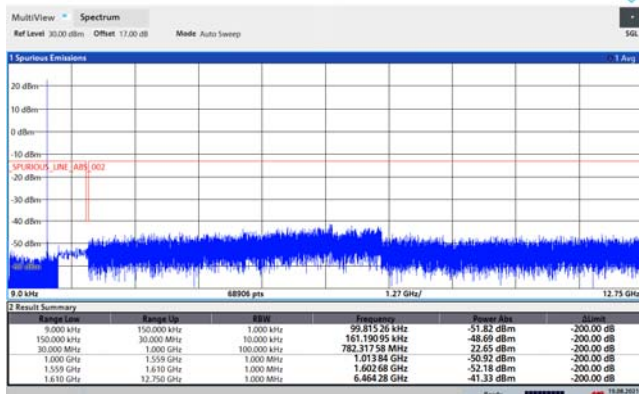
15:33:17 19.08.2021

LTE eMTC Band 13 5MHz CH-Middle
9kHz~12.75GHz



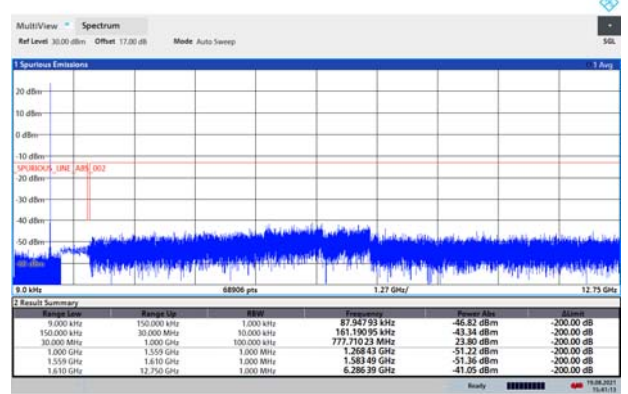
15:34:17 19.08.2021

LTE eMTC Band 13 5MHz CH-High
9kHz~12.75GHz



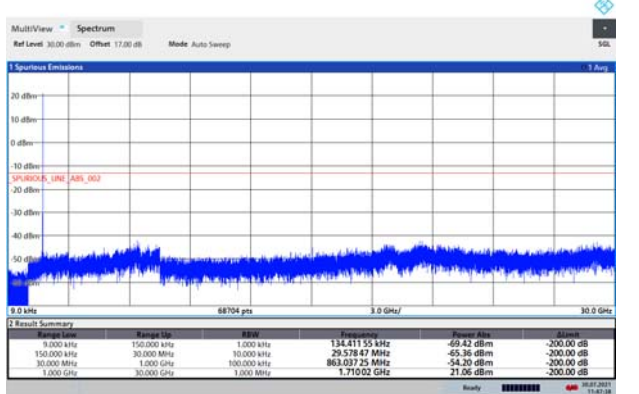
15:45:21 19.08.2021

LTE eMTC Band 13 10MHz CH-Middle
9kHz~12.75GHz



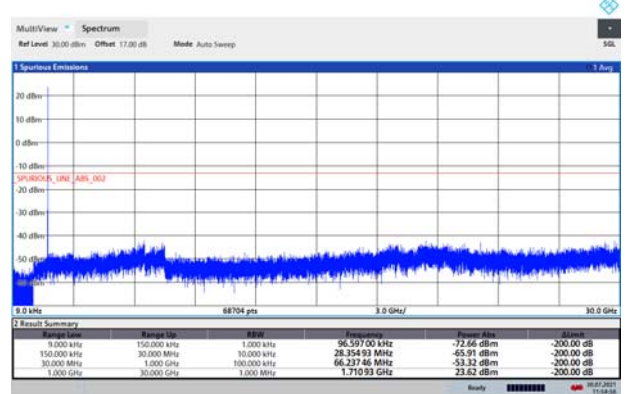
15:41:14 19.08.2021

LTE eMTC Band 66 1.4MHz CH-Low 9kHz~30GHz



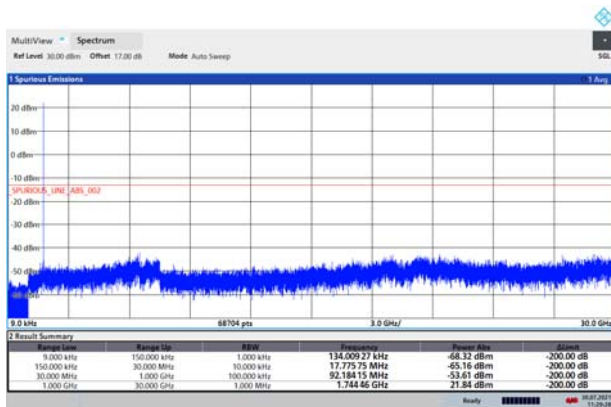
11:47:38 30.07.2021

LTE eMTC Band 66 3MHz CH-Low 9kHz~30GHz



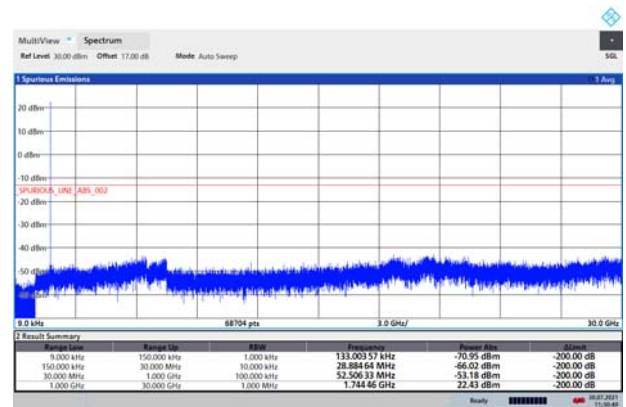
11:54:57 30.07.2021

LTE eMTC Band 66 1.4MHz CH-Middle
9kHz~30GHz



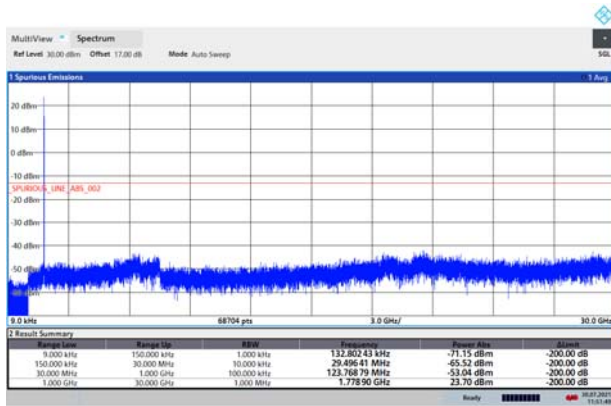
11:29:29 30.07.2021

LTE eMTC Band 66 3MHz CH-Middle
9kHz~30GHz



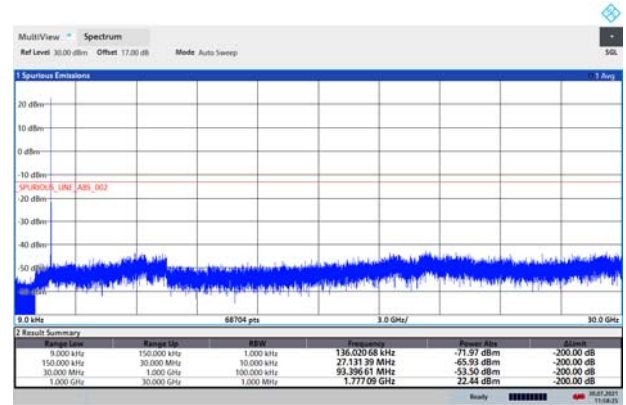
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LTE eMTC Band 66 1.4MHz CH-High 9kHz~30GHz



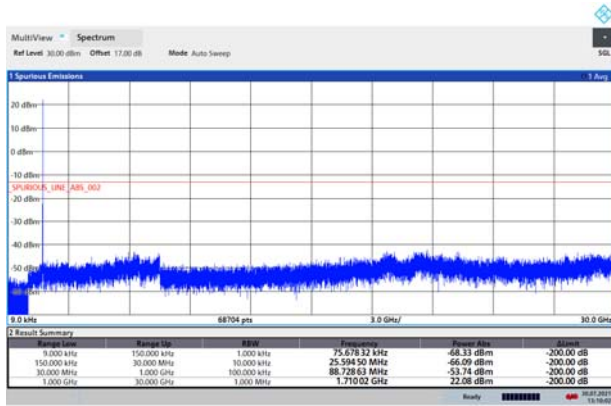
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LTE eMTC Band 66 3MHz CH-High
9kHz~30GHz



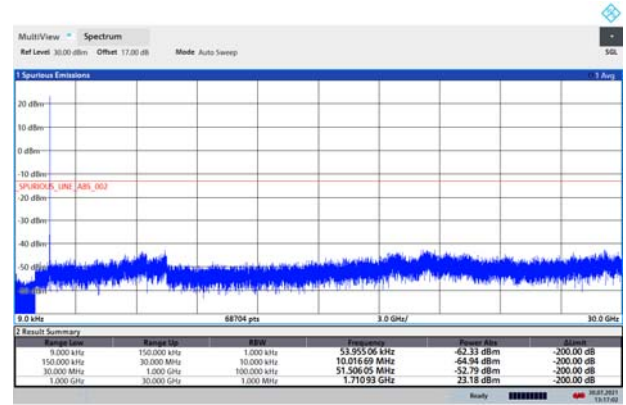
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LTE eMTC Band 66 5MHz CH-Low 9kHz~30GHz



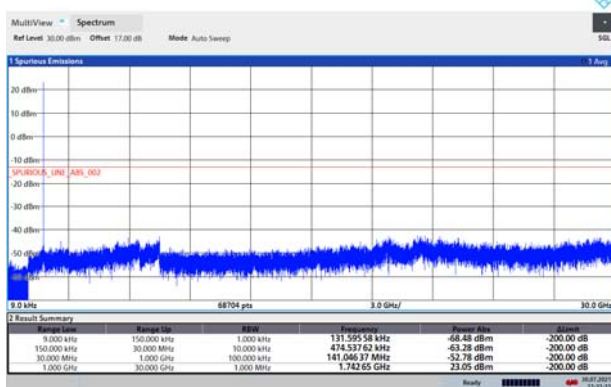
13:10:03 30.07.2021

LTE eMTC Band 66 10MHz CH-Low
9kHz~30GHz



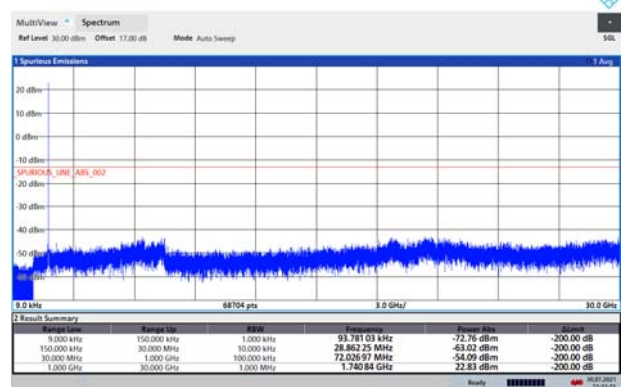
13:17:02 30.07.2021

LTE eMTC Band 66 5MHz CH-Middle
9kHz~30GHz



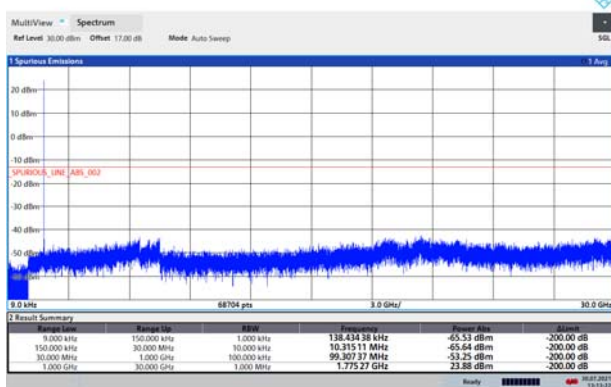
11:31:22 30.07.2021

LTE eMTC Band 66 10MHz CH-Middle
9kHz~30GHz



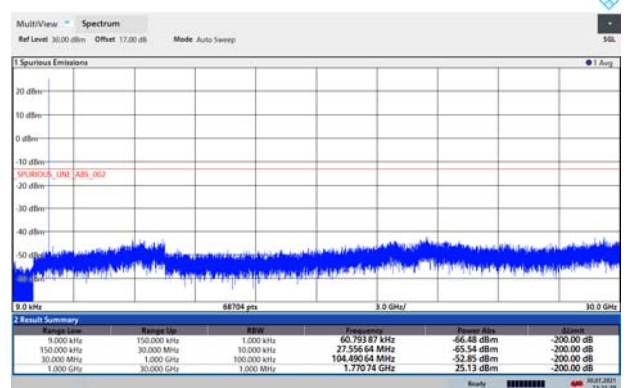
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LTE eMTC Band 66 5MHz CH-High 9kHz~30GHz



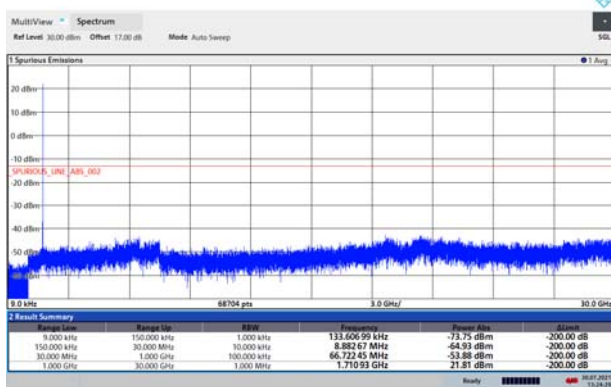
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LTE eMTC Band 66 10MHz CH-High
9kHz~30GHz



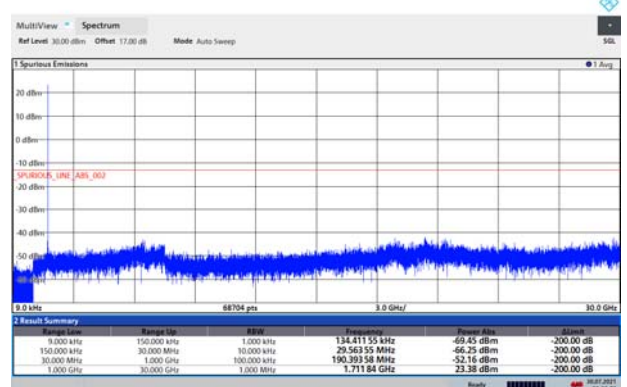
13:21:30 30.07.2021

LTE eMTC Band 66 15MHz CH-Low 9kHz~30GHz



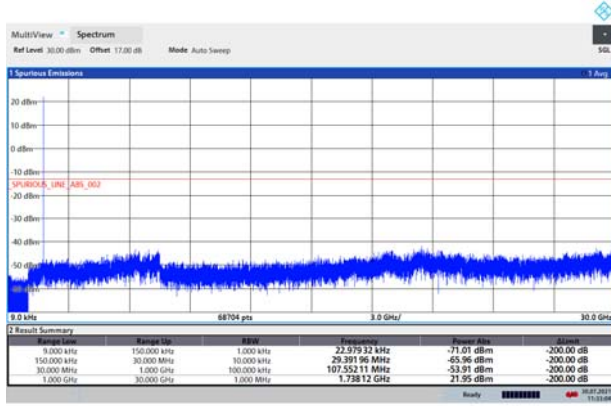
13:24:30 30.07.2021

LTE eMTC Band 66 20MHz CH-Low
9kHz~30GHz



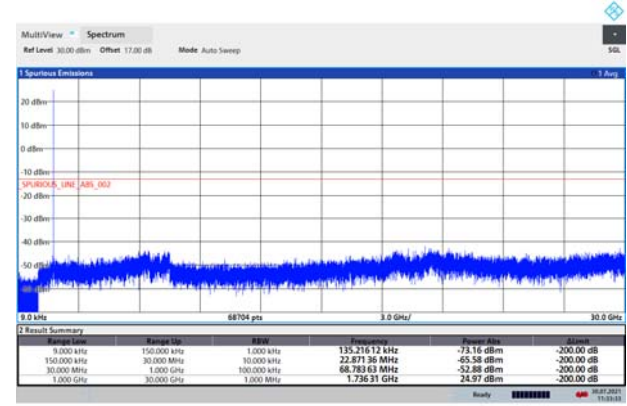
13:32:03 30.07.2021

LTE eMTC Band 66 15MHz CH-Middle
9kHz~30GHz



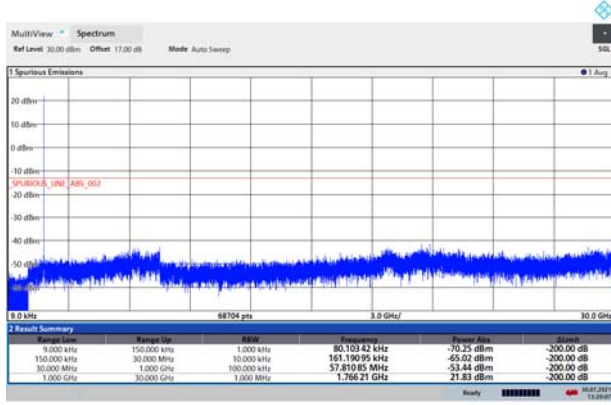
11:33:04 30.07.2021

LTE eMTC Band 66 20MHz CH-Middle
9kHz~30GHz



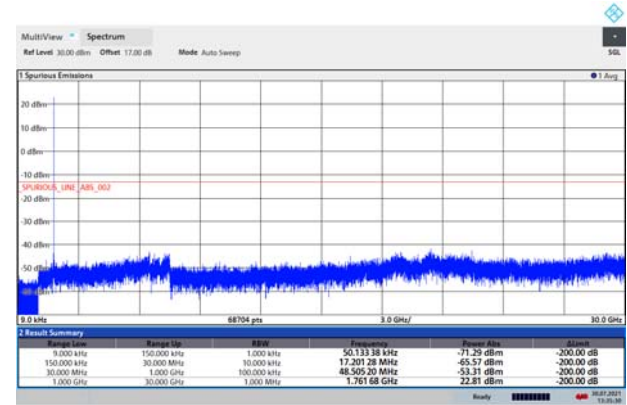
11:33:34 30.07.2021

LTE eMTC Band 66 15MHz CH-High 9kHz~30GHz



13:29:07 30.07.2021

LTE eMTC Band 66 20MHz CH-High
9kHz~30GHz



13:35:30 30.07.2021

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 eMTC 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	-55.36	2.70	12.70	Horizontal	-45.36	-13.00	32.36	45
3	5197.50	-42.06	3.20	12.50	Horizontal	-32.76	-13.00	19.76	270
4	6930.00	-51.69	4.20	11.80	Horizontal	-44.09	-13.00	31.09	90
5	8662.50	-56.06	4.40	12.50	Horizontal	-47.96	-13.00	34.96	135
6	10395.00	-49.83	4.70	11.30	Horizontal	-43.23	-13.00	30.23	90
7	12127.50	-50.85	5.20	13.80	Horizontal	-42.25	-13.00	29.25	0
8	13860.00	-50.23	5.70	11.30	Horizontal	-44.63	-13.00	31.63	90
9	15592.50	-51.38	6.10	16.80	Horizontal	-40.68	-13.00	27.68	180
10	17325.00	-48.44	6.10	14.20	Horizontal	-40.34	-13.00	27.34	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 eMTC 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	-55.69	2.70	12.70	Horizontal	-45.69	-13.00	32.69	45
3	5191.50	-40.83	3.20	12.50	Horizontal	-31.53	-13.00	18.53	270
4	6930.00	-51.27	4.20	11.80	Horizontal	-43.67	-13.00	30.67	90
5	8662.50	-55.82	4.40	12.50	Horizontal	-47.72	-13.00	34.72	135
6	10395.00	-49.66	4.70	11.30	Horizontal	-43.06	-13.00	30.06	90
7	12127.50	-50.97	5.20	13.80	Horizontal	-42.37	-13.00	29.37	0
8	13860.00	-48.38	5.70	11.30	Horizontal	-42.78	-13.00	29.78	90
9	15592.50	-51.83	6.10	16.80	Horizontal	-41.13	-13.00	28.13	180
10	17325.00	-46.93	6.10	14.20	Horizontal	-38.83	-13.00	25.83	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 eMTC 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	3447.75	-56.70	2.70	12.70	Horizontal	-46.70	-13.00	33.70	45
3	5170.88	-41.31	3.20	12.50	Horizontal	-32.01	-13.00	19.01	0
4	6930.00	-52.54	4.20	11.80	Horizontal	-44.94	-13.00	31.94	45
5	8662.50	-55.46	4.40	12.50	Horizontal	-47.36	-13.00	34.36	180
6	10395.00	-50.69	4.70	11.30	Horizontal	-44.09	-13.00	31.09	0
7	12127.50	-50.61	5.20	13.80	Horizontal	-42.01	-13.00	29.01	45
8	13860.00	-49.79	5.70	11.30	Horizontal	-44.19	-13.00	31.19	270
9	15592.50	-52.09	6.10	16.80	Horizontal	-41.39	-13.00	28.39	315
10	17325.00	-41.90	6.10	14.20	Horizontal	-33.80	-13.00	20.80	135

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

LTE eMTC Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-54.64	1.70	8.70	Horizontal	-49.79	-13.00	36.79	0
3	2122.50	-63.42	2.10	11.10	Horizontal	-56.57	-13.00	43.57	45
4	2830.00	-57.12	2.30	13.10	Horizontal	-48.47	-13.00	35.47	0
5	3537.50	-64.63	2.60	12.70	Horizontal	-56.68	-13.00	43.68	45
6	4245.00	-48.12	3.30	12.50	Horizontal	-41.07	-13.00	28.07	315
7	4952.50	-47.00	3.40	12.50	Horizontal	-40.05	-13.00	27.05	45
8	5660.00	-48.41	3.30	12.50	Horizontal	-41.36	-13.00	28.36	135
9	6367.50	-51.63	3.80	11.50	Horizontal	-46.08	-13.00	33.08	0
10	7075.00	-55.96	4.20	11.80	Horizontal	-50.51	-13.00	37.51	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 eMTC Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.60	-53.86	1.70	8.70	Horizontal	-49.01	-13.00	36.01	135
3	2115.90	-63.01	2.10	11.10	Horizontal	-56.16	-13.00	43.16	270
4	2821.20	-56.67	2.30	13.10	Horizontal	-48.02	-13.00	35.02	45
5	3512.50	-66.11	2.60	12.70	Horizontal	-58.16	-13.00	45.16	0
6	4215.00	-45.68	3.30	12.50	Horizontal	-38.63	-13.00	25.63	0
7	4917.50	-43.89	3.40	12.50	Horizontal	-36.94	-13.00	23.94	90
8	5620.00	-49.36	3.30	12.50	Horizontal	-42.31	-13.00	29.31	45
9	6322.50	-52.63	3.80	11.50	Horizontal	-47.08	-13.00	34.08	225
10	7025.00	-56.47	4.20	11.80	Horizontal	-51.02	-13.00	38.02	135

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

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

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1406.40	-52.46	1.70	8.70	Horizontal	-47.61	-13.00	34.61	0
3	2109.60	-62.98	2.10	11.10	Horizontal	-56.13	-13.00	43.13	45
4	2812.80	-57.93	2.30	13.10	Horizontal	-49.28	-13.00	36.28	0
5	3537.50	-64.76	2.60	12.70	Horizontal	-56.81	-13.00	43.81	0
6	4245.00	-47.75	3.30	12.50	Horizontal	-40.70	-13.00	27.70	90
7	4952.50	-44.07	3.40	12.50	Horizontal	-37.12	-13.00	24.12	0
8	5660.00	-49.33	3.30	12.50	Horizontal	-42.28	-13.00	29.28	90
9	6367.50	-54.41	3.80	11.50	Horizontal	-48.86	-13.00	35.86	135
10	7075.00	-56.71	4.20	11.80	Horizontal	-51.26	-13.00	38.26	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 eMTC 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	1564.00	-61.18	1.70	8.70	Horizontal	-56.33	-40.00	16.33	45
3	2346.00	-52.33	2.10	12.00	Horizontal	-44.58	-13.00	31.58	0
4	3120.00	-65.12	2.30	13.10	Horizontal	-56.47	-13.00	43.47	0
5	3901.00	-61.32	2.90	12.50	Horizontal	-53.87	-13.00	40.87	135
6	4692.00	-46.93	3.10	12.50	Horizontal	-39.68	-13.00	26.68	45
7	5474.00	-47.48	3.30	12.50	Horizontal	-40.43	-13.00	27.43	90
8	6256.00	-58.33	3.50	12.80	Horizontal	-51.18	-13.00	38.18	90
9	7038.00	-55.46	4.20	11.80	Horizontal	-50.01	-13.00	37.01	315
10	7820.00	-56.79	4.40	12.30	Horizontal	-51.04	-13.00	38.04	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 eMTC Band 13 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1555.25	-61.31	1.70	8.70	Horizontal	-56.46	-13.00	43.46	90
3	2346.00	-60.83	2.10	12.00	Horizontal	-53.08	-13.00	40.08	0
4	3128.00	-63.62	2.30	13.10	Horizontal	-54.97	-13.00	41.97	45
5	3910.00	-60.58	2.90	12.50	Horizontal	-53.13	-13.00	40.13	135
6	4692.00	-49.00	3.10	12.50	Horizontal	-41.75	-13.00	28.75	90
7	5474.00	-47.47	3.30	12.50	Horizontal	-40.42	-13.00	27.42	45
8	6256.00	-58.68	3.50	12.80	Horizontal	-51.53	-13.00	38.53	180
9	7038.00	-56.31	4.20	11.80	Horizontal	-50.86	-13.00	37.86	270
10	7820.00	-57.54	4.40	12.30	Horizontal	-51.79	-13.00	38.79	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 eMTC 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	3509.25	-57.76	2.70	12.70	Horizontal	-47.76	-13.00	34.76	270
3	5262.50	-43.11	3.20	12.50	Horizontal	-33.81	-13.00	20.81	225
4	7018.00	-51.34	4.20	11.80	Horizontal	-43.74	-13.00	30.74	225
5	8772.50	-54.90	4.40	12.50	Horizontal	-46.80	-13.00	33.80	180
6	10527.00	-50.97	4.70	11.80	Horizontal	-43.87	-13.00	30.87	270
7	12281.50	-50.28	5.20	13.80	Horizontal	-41.68	-13.00	28.68	180
8	14036.00	-50.10	5.70	13.20	Horizontal	-42.60	-13.00	29.60	45
9	15790.50	-53.27	6.10	16.80	Horizontal	-42.57	-13.00	29.57	315
10	17545.00	-48.33	6.10	14.20	Horizontal	-40.23	-13.00	27.23	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 eMTC 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	3486.00	-59.42	2.70	12.70	Horizontal	-49.42	-13.00	36.42	315
3	5229.00	-43.49	3.20	12.50	Horizontal	-34.19	-13.00	21.19	315
4	6972.00	-51.34	4.20	11.80	Horizontal	-43.74	-13.00	30.74	90
5	8715.00	-55.62	4.40	12.50	Horizontal	-47.52	-13.00	34.52	0
6	10458.00	-49.91	4.70	11.80	Horizontal	-42.81	-13.00	29.81	225
7	12201.00	-49.91	5.20	13.80	Horizontal	-41.31	-13.00	28.31	225
8	13944.00	-51.37	5.70	13.20	Horizontal	-43.87	-13.00	30.87	270
9	15687.00	-52.10	6.10	16.80	Horizontal	-41.40	-13.00	28.40	135
10	17430.00	-49.41	6.10	14.20	Horizontal	-41.31	-13.00	28.31	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 eMTC 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	3472.88	-58.73	2.70	12.70	Horizontal	-48.73	-13.00	35.73	270
3	5209.00	-43.18	3.20	12.50	Horizontal	-33.88	-13.00	20.88	315
4	6945.75	-52.86	4.20	11.80	Horizontal	-45.26	-13.00	32.26	90
5	8682.00	-55.12	4.40	12.50	Horizontal	-47.02	-13.00	34.02	180
6	10418.63	-49.60	4.70	11.80	Horizontal	-42.50	-13.00	29.50	0
7	12455.00	-52.80	5.20	13.80	Horizontal	-44.20	-13.00	31.20	90
8	13891.50	-51.67	5.70	13.20	Horizontal	-44.17	-13.00	31.17	90
9	15627.00	-50.66	6.10	16.80	Horizontal	-39.96	-13.00	26.96	45
10	17364.38	-48.24	6.10	14.20	Horizontal	-40.14	-13.00	27.14	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.

7 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2021-05-15	2022-05-14
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	/	/
Climate Chamber	Weiss	VT4002	582261194500 10	2021-05-15	2022-05-14
Spectrum Analyzer	Key sight	N9010A	MY50210259	2021-05-15	2022-05-14
Signal Analyzer	R&S	FSV3030	101411	2020-12-13	2021-12-12
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2019-12-16	2022-12-15
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Horn Antenna	ETS-Lindgren	3160-09	00102644	2018-06-20	2023-06-19
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2019-12-24	2022-12-23
Signal generator	R&S	SMB 100A	102594	2021-05-15	2022-05-14
Climatic Chamber	ESPEC	SU-242	93000506	2020-12-13	2021-12-12
Preamplifier	R&S	SCU18	102327	2021-05-15	2022-05-14
MOB COMMS DC SUPPLY	Keysight	66319D	MY43004105	2021-06-09	2021-12-08
RF Cable	Agilent	SMA 15cm	0001	2021-06-09	2021-12-08
Software	R&S	EMC32	9.26.0	/	/

*****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.

ANNEX C: Product Change Description (Variant 1)

The Product Change Description are submitted separately.

ANNEX D: Product Change Description (Variant 2)

The Product Change Description are submitted separately.