EIRP Power dBm								
Band	LTE Band 2			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	18607/1850.7	18900/1880	19193/1909.3	Limit	Result
1.4MHz	QPSK	1	0.00	26.72	26.67	26.76	33.00	Pass
		1	3.00	25.95	26.24	26.25	33.00	Pass
		1	5.00	25.99	26.32	26.23	33.00	Pass
		3	0.00	25.93	26.27	26.23	33.00	Pass
		3	2.00	25.94	26.29	26.20	33.00	Pass
		3	3.00	25.94	26.32	26.17	33.00	Pass
		6	0.00	24.95	25.29	25.29	33.00	Pass
	16QAM	1	0.00	26.04	26.02	26.82	33.00	Pass
		1	3.00	25.92	26.39	26.15	33.00	Pass
		1	5.00	26.02	26.37	26.61	33.00	Pass
		3	0.00	26.05	26.33	26.51	33.00	Pass
		3	2.00	26.09	26.35	26.48	33.00	Pass
		3	3.00	26.08	26.34	26.43	33.00	Pass
		6	0.00	25.14	25.14	25.35	33.00	Pass
Bandwidth	Modulation	RB size	RB offset	18615/1851.5	18900/1880	19185/1908.5	Limit	Result
3MHz	QPSK	1	0.00	26.12	26.27	26.26	33.00	Pass
		1	7.00	26.15	26.46	26.39	33.00	Pass
		1	14.00	26.07	26.39	26.14	33.00	Pass
		8	0.00	26.20	26.38	26.34	33.00	Pass
		8	4.00	26.17	26.43	26.38	33.00	Pass
		8	7.00	26.16	26.45	26.33	33.00	Pass
		15	0.00	25.12	25.39	25.38	33.00	Pass
	16QAM	1	0.00	26.42	26.30	26.49	33.00	Pass
		1	7.00	26.52	26.48	25.95	33.00	Pass
		1	14.00	26.46	26.43	26.43	33.00	Pass
		8	0.00	26.25	26.48	26.35	33.00	Pass
		8	4.00	26.32	26.54	26.41	33.00	Pass
		8	7.00	26.33	26.48	26.36	33.00	Pass
		15	0.00	26.12	26.27	26.26	33.00	Pass
Bandwidth	Modulation	RB size	RB offset	18625/1852.5	18900/1880	19175/1907.5	Limit	Result
5MHz	QPSK	1	0.00	26.24	26.23	26.28	33.00	Pass
		1	12.00	26.29	26.47	26.37	33.00	Pass
		1	24.00	26.09	26.52	26.29	33.00	Pass
		12	0.00	26.14	26.23	26.14	33.00	Pass
		12	6.00	26.20	26.40	26.29	33.00	Pass
		12	13.00	26.09	26.36	26.28	33.00	Pass
		25	0.00	25.07	25.30	25.19	33.00	Pass
	16QAM	1	0.00	26.58	26.46	26.33	33.00	Pass
		1	12.00	26.58	26.59	26.51	33.00	Pass
		1	24.00	26.46	25.97	26.45	33.00	Pass
		12	0.00	26.06	26.44	26.34	33.00	Pass
		12	6.00	26.19	26.02	26.41	33.00	Pass
		12	13.00	26.03	26.56	26.40	33.00	Pass
		25	0.00	25.19	25.37	25.20	33.00	Pass

EIRP Power dBm								
Band	LTE Band 2			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	18650/1855	18900/1880	19150/1905	Limit	Result
10MHz	QPSK	1	0.00	26.10	25.92	26.60	33.00	Pass
		1	24.00	25.92	26.27	26.06	33.00	Pass
		1	49.00	26.53	26.32	26.15	33.00	Pass
		25	0.00	25.83	25.89	26.52	33.00	Pass
		25	12.00	26.12	26.18	25.97	33.00	Pass
		25	25.00	26.57	26.13	25.94	33.00	Pass
		50	0.00	25.15	24.95	25.76	33.00	Pass
	16QAM	1	0.00	26.28	26.03	25.91	33.00	Pass
		1	24.00	26.17	26.33	26.38	33.00	Pass
		1	49.00	25.83	26.41	26.42	33.00	Pass
Bandwidth	Modulation	RB size	RB offset	18675/1857.5	18900/1880	19125/1902.5	Limit	Result
15MHz	QPSK	1	0.00	26.04	25.90	25.98	33.00	Pass
		1	37.00	26.43	26.08	26.01	33.00	Pass
		1	74.00	26.38	26.49	26.27	33.00	Pass
		36	0.00	25.95	26.09	26.06	33.00	Pass
		36	18.00	25.78	26.38	26.39	33.00	Pass
		36	38.00	26.51	26.44	26.07	33.00	Pass
		75	0.00	25.58	25.17	25.01	33.00	Pass
	16QAM	1	0.00	26.30	26.07	26.10	33.00	Pass
		1	37.00	26.00	25.94	26.12	33.00	Pass
		1	74.00	25.95	25.99	26.48	33.00	Pass
Bandwidth	Modulation	RB size	RB offset	18700/1860	18900/1880	19100/1900	Limit	Result
20MHz	QPSK	1	0.00	26.09	26.55	26.43	33.00	Pass
		1	49.00	26.49	26.40	25.87	33.00	Pass
		1	99.00	26.39	26.14	26.14	33.00	Pass
		50	0.00	26.48	26.40	26.47	33.00	Pass
		50	25.00	25.66	26.20	26.46	33.00	Pass
		50	50.00	26.25	26.24	25.89	33.00	Pass
		100	0.00	25.59	25.80	25.56	33.00	Pass
	16QAM	1	0.00	26.10	25.70	26.24	33.00	Pass
		1	49.00	26.52	26.51	26.53	33.00	Pass
		1	99.00	26.48	26.44	26.18	33.00	Pass

EIRP Power dBm								
Band	LTE Band 4			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	19957/1710.7	20175/1732.5	20393/1754.3	Limit	Result
1.4MHz	QPSK	1	0.00	26.90	26.91	26.85	30.00	Pass
		1	3.00	26.56	26.41	26.26	30.00	Pass
		1	5.00	26.40	26.31	26.19	30.00	Pass
		3	0.00	26.49	26.12	26.20	30.00	Pass
		3	2.00	26.53	26.06	26.23	30.00	Pass
		3	3.00	26.59	26.09	26.18	30.00	Pass
		6	0.00	25.76	25.05	25.41	30.00	Pass
	16QAM	1	0.00	26.49	26.15	26.55	30.00	Pass
		1	2.00	26.68	26.20	25.98	30.00	Pass
		1	5.00	26.59	26.96	26.66	30.00	Pass
		3	0.00	26.61	26.26	26.13	30.00	Pass
		3	1.00	26.56	26.29	26.27	30.00	Pass
		3	3.00	26.48	26.14	26.21	30.00	Pass
		6	0.00	25.75	25.17	25.42	30.00	Pass
Bandwidth	Modulation	RB size	RB offset	19965/1711.5	20175/1732.5	20385/1753.5	Limit	Result
3MHz	QPSK	1	0.00	26.73	26.70	26.04	30.00	Pass
		1	7.00	26.60	26.64	26.44	30.00	Pass
		1	14.00	26.57	26.47	26.48	30.00	Pass
		8	0.00	26.54	25.99	26.12	30.00	Pass
		8	4.00	26.58	26.00	26.15	30.00	Pass
		8	7.00	26.48	26.08	26.23	30.00	Pass
		15	0.00	25.48	25.96	25.23	30.00	Pass
	16QAM	1	0.00	26.39	26.60	26.01	30.00	Pass
		1	7.00	26.31	26.17	26.31	30.00	Pass
		1	14.00	26.29	26.71	26.14	30.00	Pass
		8	0.00	26.47	26.71	26.52	30.00	Pass
		8	4.00	26.44	26.72	26.36	30.00	Pass
		8	7.00	26.33	26.07	26.04	30.00	Pass
		15	0.00	25.41	25.79	25.21	30.00	Pass
Bandwidth	Modulation	RB size	RB offset	19975/1712.5	20175/1732.5	20375/1752.5	Limit	Result
5MHz	QPSK	1	0.00	26.47	26.50	26.03	30.00	Pass
		1	12.00	26.68	26.65	26.00	30.00	Pass
		1	24.00	26.50	26.57	26.05	30.00	Pass
		12	0.00	26.46	26.58	26.09	30.00	Pass
		12	6.00	26.46	26.56	26.15	30.00	Pass
		12	13.00	26.47	26.65	26.21	30.00	Pass
		25	0.00	25.43	25.53	25.11	30.00	Pass
	16QAM	1	0.00	26.36	26.55	26.51	30.00	Pass
		1	12.00	26.50	26.13	26.08	30.00	Pass
		1	24.00	26.32	26.64	26.07	30.00	Pass
		12	0.00	26.33	26.12	26.93	30.00	Pass
		12	6.00	26.27	26.06	26.01	30.00	Pass
		12	13.00	26.25	26.65	26.06	30.00	Pass
		25	0.00	26.47	26.50	26.13	30.00	Pass

EIRP Power dBm								
Band	LTE Band 4			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	20000/1715	20175/1732.5	20350/1750	Limit	Result
10MHz	QPSK	1	0.00	26.58	26.57	26.09	30.00	Pass
		1	24.00	26.56	26.14	26.25	30.00	Pass
		1	49.00	26.50	26.62	26.22	30.00	Pass
		25	0.00	26.32	26.49	26.52	30.00	Pass
		25	12.00	26.48	26.08	26.43	30.00	Pass
		25	25.00	26.52	26.12	26.46	30.00	Pass
		50	0.00	26.34	25.93	26.50	30.00	Pass
	16QAM	1	0.00	26.36	26.44	26.22	30.00	Pass
		1	24.00	26.29	26.68	26.19	30.00	Pass
		1	49.00	26.34	26.62	26.08	30.00	Pass
Bandwidth	Modulation	RB size	RB offset	20025/1717.5	20175/1732.5	20325/1747.5	Limit	Result
15MHz	QPSK	1	0.00	26.47	26.52	26.40	30.00	Pass
		1	37.00	26.71	26.15	26.40	30.00	Pass
		1	74.00	25.97	26.11	26.39	30.00	Pass
		36	0.00	26.32	26.47	26.37	30.00	Pass
		36	18.00	26.39	26.53	26.32	30.00	Pass
		36	38.00	26.59	26.57	26.24	30.00	Pass
		75	0.00	26.33	26.41	26.34	30.00	Pass
	16QAM	1	0.00	26.24	26.49	26.20	30.00	Pass
		1	37.00	26.06	26.71	26.00	30.00	Pass
		1	74.00	26.36	26.51	26.41	30.00	Pass
Bandwidth	Modulation	RB size	RB offset	20050/1720	20175/1732.5	20300/1745	Limit	Result
20MHz	QPSK	1	0.00	26.09	26.64	26.71	30.00	Pass
		1	49.00	26.18	26.09	26.72	30.00	Pass
		1	99.00	26.62	26.71	26.14	30.00	Pass
		50	0.00	26.09	26.09	26.11	30.00	Pass
		50	25.00	26.05	26.04	26.08	30.00	Pass
		50	50.00	26.48	26.51	25.97	30.00	Pass
		100	0.00	26.43	26.43	25.98	30.00	Pass
	16QAM	1	0.00	26.47	26.54	26.45	30.00	Pass
		1	49.00	26.05	26.08	26.09	30.00	Pass
		1	99.00	26.13	26.13	26.15	30.00	Pass

ERP Power dBm								
Band	LTE Band 5			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	20407/824.7	20525/836.5	20643/848.3	Limit	Result
1.4MHz	QPSK	1	0.00	25.72	25.70	25.73	38.45	Pass
		1	3.00	25.56	24.88	25.59	38.45	Pass
		1	5.00	25.34	25.41	25.46	38.45	Pass
		3	0.00	25.38	25.59	25.38	38.45	Pass
		3	2.00	25.48	25.14	25.43	38.45	Pass
		3	3.00	25.57	25.55	25.50	38.45	Pass
		6	0.00	25.05	25.04	25.34	38.45	Pass
	16QAM	1	0.00	25.14	25.34	24.91	38.45	Pass
		1	2.00	25.54	25.38	25.26	38.45	Pass
		1	5.00	25.40	25.20	25.54	38.45	Pass
		3	0.00	25.59	25.42	25.23	38.45	Pass
		3	1.00	25.51	25.57	25.50	38.45	Pass
		3	3.00	25.52	25.47	25.59	38.45	Pass
		6	0.00	24.85	25.41	25.42	38.45	Pass
Bandwidth	Modulation	RB size	RB offset	20415/825.5	20525/836.5	20635/847.5	Limit	Result
3MHz	QPSK	1	0.00	24.94	24.92	25.08	38.45	Pass
		1	7.00	25.34	25.26	25.08	38.45	Pass
		1	14.00	24.97	25.39	25.32	38.45	Pass
		8	0.00	24.96	25.22	24.84	38.45	Pass
		8	4.00	25.34	25.17	25.35	38.45	Pass
		8	7.00	25.03	25.33	25.30	38.45	Pass
		15	0.00	25.37	25.34	25.67	38.45	Pass
	16QAM	1	0.00	25.55	25.56	25.10	38.45	Pass
		1	8.00	25.02	24.93	25.18	38.45	Pass
		1	14.00	24.91	25.55	25.65	38.45	Pass
		8	0.00	25.55	25.06	25.54	38.45	Pass
		8	4.00	25.23	25.59	25.34	38.45	Pass
		8	7.00	25.06	25.50	25.51	38.45	Pass
		15	0.00	25.41	25.41	25.27	38.45	Pass
Bandwidth	Modulation	RB size	RB offset	20425/826.5	20525/836.5	20625/846.5	Limit	Result
5MHz	QPSK	1	0.00	24.84	25.28	25.33	38.45	Pass
		1	12.00	25.13	25.23	24.96	38.45	Pass
		1	24.00	25.51	25.45	25.59	38.45	Pass
		12	0.00	25.39	24.84	25.19	38.45	Pass
		12	6.00	24.96	24.86	25.06	38.45	Pass
		12	13.00	25.30	25.60	25.32	38.45	Pass
		25	0.00	25.10	25.60	24.93	38.45	Pass
	16QAM	1	0.00	25.45	25.51	25.01	38.45	Pass
		1	12.00	24.88	25.20	25.23	38.45	Pass
		1	24.00	25.46	25.39	24.97	38.45	Pass
		12	0.00	25.39	25.53	25.02	38.45	Pass
		12	6.00	25.22	25.65	25.16	38.45	Pass
		12	13.00	25.45	25.42	24.92	38.45	Pass
		25	0.00	25.19	25.54	25.06	38.45	Pass

ERP Power dBm								
Band	LTE Band 5			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	20450/829	20525/836.5	20600/844	Limit	Result
10MHz	QPSK	1	0.00	25.03	25.13	25.10	38.45	Pass
		1	24.00	25.14	25.26	25.34	38.45	Pass
		1	49.00	24.94	25.21	25.44	38.45	Pass
		25	0.00	25.13	25.06	25.02	38.45	Pass
		25	12.00	25.30	24.84	25.48	38.45	Pass
		25	25.00	25.43	25.45	25.02	38.45	Pass
		50	0.00	24.97	25.05	25.22	38.45	Pass
	16QAM	1	0.00	24.86	25.01	25.52	38.45	Pass
		1	24.00	25.54	25.47	25.51	38.45	Pass
		1	49.00	24.96	25.22	25.31	38.45	Pass

ERP Power dBm							Limit	Result
Band	LTE Band 12			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	23017/699.7	23095/707.5	23173/715.3		
1.4MHz	QPSK	1	0.00	25.75	25.77	25.71	38.45	Pass
		1	3.00	24.91	25.09	25.57	38.45	Pass
		1	5.00	25.01	24.87	25.44	38.45	Pass
		3	0.00	25.49	25.15	25.32	38.45	Pass
		3	2.00	25.50	25.16	25.16	38.45	Pass
		3	3.00	25.34	25.12	25.51	38.45	Pass
		6	0.00	25.54	25.09	25.23	38.45	Pass
	16QAM	1	0.00	25.15	24.87	25.06	38.45	Pass
		1	2.00	25.19	25.33	24.85	38.45	Pass
		1	5.00	25.06	25.11	25.37	38.45	Pass
		3	0.00	25.32	25.24	24.86	38.45	Pass
		3	2.00	25.36	25.18	24.90	38.45	Pass
		3	3.00	25.29	25.18	25.53	38.45	Pass
		6	0.00	25.58	25.10	24.88	38.45	Pass
Bandwidth	Modulation	RB size	RB offset	23025/700.5	23095/707.5	23165/714.5	Limit	Result
3MHz	QPSK	1	0.00	25.46	24.89	24.99	38.45	Pass
		1	7.00	25.35	24.98	25.27	38.45	Pass
		1	14.00	25.38	25.17	25.53	38.45	Pass
		8	0.00	25.30	24.97	25.19	38.45	Pass
		8	4.00	25.34	24.96	25.23	38.45	Pass
		8	7.00	25.37	25.06	25.13	38.45	Pass
		15	0.00	25.31	24.90	25.17	38.45	Pass
	16QAM	1	0.00	25.25	25.10	25.14	38.45	Pass
		1	7.00	25.28	25.03	25.06	38.45	Pass
		1	14.00	25.34	25.53	25.40	38.45	Pass
		8	0.00	25.32	24.90	24.92	38.45	Pass
		8	4.00	25.28	24.88	25.14	38.45	Pass
		8	7.00	25.20	25.22	25.38	38.45	Pass
		15	0.00	25.11	25.21	25.32	38.45	Pass
Bandwidth	Modulation	RB size	RB offset	26035/701.5	23095/707.5	23155/713.5	Limit	Result
5MHz	QPSK	1	0.00	25.20	25.23	24.87	38.45	Pass
		1	12.00	25.52	25.19	25.03	38.45	Pass
		1	24.00	25.10	25.32	25.33	38.45	Pass
		12	0.00	25.27	24.93	25.03	38.45	Pass
		12	6.00	25.35	25.06	24.86	38.45	Pass
		12	13.00	25.32	24.85	25.30	38.45	Pass
		25	0.00	25.22	24.86	24.88	38.45	Pass
	16QAM	1	0.00	25.18	25.14	25.49	38.45	Pass
		1	12.00	25.24	25.22	24.96	38.45	Pass
		1	24.00	25.03	25.24	25.05	38.45	Pass
		12	0.00	24.86	24.90	24.95	38.45	Pass
		12	6.00	25.29	24.96	24.89	38.45	Pass
		12	13.00	25.22	25.12	25.59	38.45	Pass
		25	0.00	25.20	24.91	24.84	38.45	Pass

ERP Power dBm								
Band	LTE Band 12			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	23060/714	23095/707.5	23130/711	Limit	Result
10MHz	QPSK	1	0.00	25.44	25.06	24.98	38.45	Pass
		1	24.00	24.99	24.96	25.50	38.45	Pass
		1	49.00	25.21	24.85	25.11	38.45	Pass
		25	0.00	25.35	25.06	24.91	38.45	Pass
		25	12.00	25.26	25.12	24.96	38.45	Pass
		25	25.00	25.16	24.94	24.86	38.45	Pass
		50	0.00	25.08	24.96	24.96	38.45	Pass
	16QAM	1	0.00	25.05	25.08	25.24	38.45	Pass
		1	24.00	25.44	25.38	25.36	38.45	Pass
		1	49.00	24.95	25.45	24.92	38.45	Pass

ERP Power dBm							Limit	Result
Band	LTE Band 13			Channel/Frequency (MHz)				
Bandwidth	Modulation	RB size	RB offset	23205/779.5	23230/782	23255/784.5		
5MHz	QPSK	1	0.00	25.74	25.73	25.76	38.45	Pass
		1	12.00	25.46	25.15	25.18	38.45	Pass
		1	24.00	25.09	25.12	24.98	38.45	Pass
		12	0.00	25.22	25.18	24.85	38.45	Pass
		12	6.00	25.11	25.06	25.04	38.45	Pass
		12	13.00	24.85	24.95	25.12	38.45	Pass
		25	0.00	24.85	24.92	24.90	38.45	Pass
	16QAM	1	0.00	25.46	25.23	25.23	38.45	Pass
		1	12.00	24.86	25.21	25.10	38.45	Pass
		1	24.00	24.89	24.99	25.16	38.45	Pass
		12	0.00	24.89	24.96	24.94	38.45	Pass
		12	6.00	25.50	25.27	25.27	38.45	Pass
		12	13.00	24.90	25.25	25.14	38.45	Pass
		25	0.00	25.11	25.06	25.04	38.45	Pass
Bandwidth	Modulation	RB size	RB offset		23230/782		Limit	Result
10MHz	QPSK	1	0.00		25.42		38.45	Pass
		1	24.00		25.31		38.45	Pass
		1	49.00		25.26		38.45	Pass
		25	0.00		25.24		38.45	Pass
		25	12.00		25.06		38.45	Pass
		25	25.00		24.89		38.45	Pass
		50	0.00		25.06		38.45	Pass
	16QAM	1	0.00		25.05		38.45	Pass
		1	24.00		25.59		38.45	Pass
		1	49.00		25.20		38.45	Pass

5.8. Radiated Out of Band Emissions

5.8.1. Limit

FCC

-§22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB.

-§24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

-§27.53(c)(2), on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

-§27.53(f), For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70dB W/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80dB W EIRP for discrete emissions of less than 700Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

-§27.53(g), the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB.

-§27.53(h)(1), for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB.

-§27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than 40 + 10 log10 (P) dBon all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log10 (P) dBon all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log10 (P) dBon all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log10 (P) dB on all frequencies between 2 490.5 MHz and 2 496 MHz and 55 + 10 log10 (P) dB at or below 2 490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2 495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

IC

- RSS-130 Issue 2

4.7.1, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dB W), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment’s frequency block range, a resolution bandwidth of 30 kHz may be employed.

4.7.2, In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHzand 793-806 MHz shall be attenuated below the transmitter power, P (dB W), by at least:

(i) 76 + 10 log10 p (watts), dB, for base and fixed equipment, and

(ii) 65 + 10 log10 p (watts), dB, for mobile and portable equipment.

b) The e.i.r.p. in the band 1 559-1 610 MHz shall not exceed -70 dB W/MHz for wideband signal and -80 dB W for discrete emission with bandwidth less than 700Hz.

- RSS-132 Issue 4

5.5, Equipment shall meet the unwanted emission limits specified below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1 % of the occupied bandwidth shall be attenuated below the transmitter output power P (dB W) by at least 43 + 10 log(p) dB.

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dB W) by at least43 + 10 log(p) dB. If the measurement is performed using 1 % of the occupied bandwidth, power integration over 100 kHz is required.

- RSS-133 Issue 7

6.5, Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1 % of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log10 p(watts).
(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dB W) by at least 43 + 10 log10 p(watts). If the measurement is performed using 1 % of the emission bandwidth, power integration over 1.0 MHz is required.
- RSS-139 Issue 4
5.6, Unwanted emissions shall be measured in terms of average values.
For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

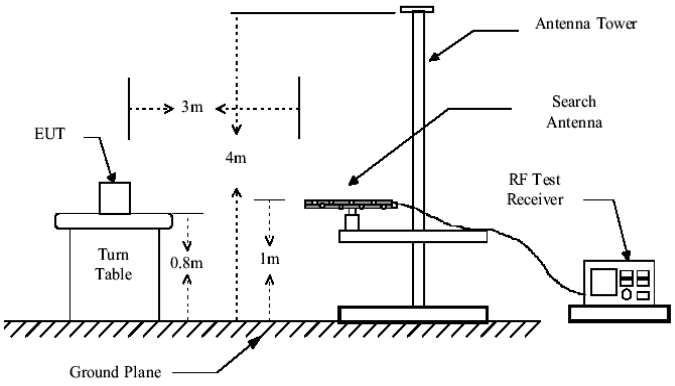
Table 6: Unwanted emission limits

Offset from the edge of the frequency block or frequency block group	Unwanted emission limit
≤1 MHz	-13 dB m/(1% of OB)*
>1 MHz	-13 dB m

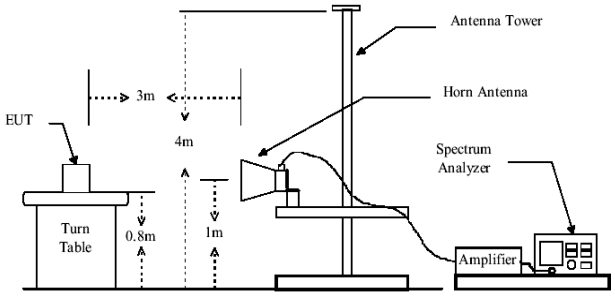
* OB is the occupied bandwidth

5.8.2. Test Setup

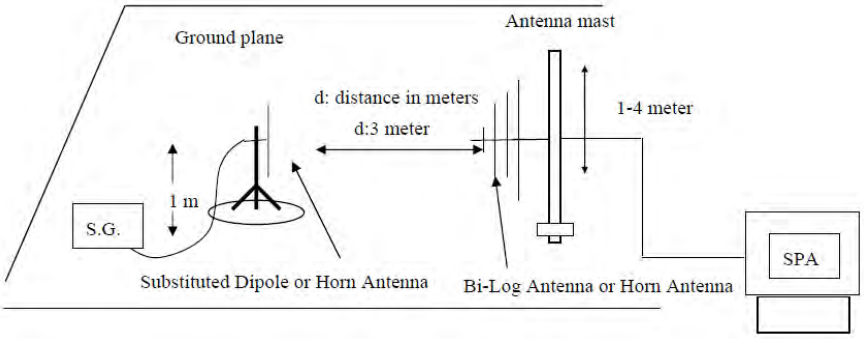
Below 1GHz



Above 1GHz



Substituted method:



5.8.3. Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. all test in Full-Anechoic Chamber.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

EIRP (Level)= S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

Note: Measurement Uncertainty: ±3.6 dB.

The data show only the worst results, and the other results are very low and not shown in the report.

5.8.4. Test Result

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 1.4MHz Lowest	87.67	Vertical	-75.62	3.35	0.38	-74.80	-13	PASS
	3701.40	Vertical	-46.27	7.76	3.75	-44.41		
	5552.10	Vertical	-47.41	9.84	4.94	-44.66		
	7402.80	Vertical	-39.81	10.21	5.32	-37.07		
	9253.50	Vertical	-43.21	11.36	6.02	-40.02		
	11104.20	Vertical	-44.75	14.52	6.68	-39.06		
LTE BAND 2 1.4MHz Middle	88.58	Vertical	-75.62	3.35	0.38	-74.80	-13	PASS
	3760.00	Vertical	-47.62	7.76	3.75	-45.76		
	5640.00	Vertical	-47.20	9.84	4.94	-44.45		
	7520.00	Vertical	-42.82	10.21	5.32	-40.08		
	9400.00	Vertical	-42.23	11.36	6.02	-39.04		
	11280.00	Vertical	-46.17	14.52	6.68	-40.48		
LTE BAND 2 1.4MHz Highest	88.78	Vertical	-75.58	3.35	0.38	-74.76	-13	PASS
	3819.60	Vertical	-47.20	7.79	3.53	-45.09		
	5729.40	Vertical	-41.66	9.88	5.02	-38.95		
	7639.20	Vertical	-37.84	10.25	5.54	-35.28		
	9549.00	Vertical	-44.72	11.38	6.16	-41.65		
	11458.80	Vertical	-47.14	14.56	6.72	-41.45		
LTE BAND 2 3MHz Lowest	87.64	Vertical	-75.65	3.35	0.38	-74.83	-13	PASS
	3700.40	Vertical	-46.28	7.76	3.75	-44.42		
	5550.60	Vertical	-47.09	9.84	4.94	-44.34		
	7400.80	Vertical	-39.56	10.21	5.32	-36.82		
	9251.00	Vertical	-42.93	11.36	6.02	-39.74		
	11101.20	Vertical	-44.47	14.52	6.68	-38.78		
LTE BAND 2 3MHz Middle	88.86	Vertical	-75.22	3.35	0.38	-74.40	-13	PASS
	3760.00	Vertical	-47.37	7.76	3.75	-45.51		
	5640.00	Vertical	-46.95	9.84	4.94	-44.20		
	7520.00	Vertical	-42.59	10.21	5.32	-39.85		
	9400.00	Vertical	-42.01	11.36	6.02	-38.82		
	11280.00	Vertical	-45.93	14.52	6.68	-40.24		
LTE BAND 2 3MHz Highest	88.76	Vertical	-75.18	3.35	0.38	-74.36	-13	PASS
	3819.60	Vertical	-46.95	7.79	3.53	-44.84		
	5729.40	Vertical	-41.43	9.88	5.02	-38.72		
	7639.20	Vertical	-37.64	10.25	5.54	-35.08		
	9549.00	Vertical	-44.49	11.38	6.16	-41.42		
	11458.80	Vertical	-46.90	14.56	6.72	-41.21		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 5MHz Lowest	87.59	Vertical	-75.26	3.35	0.38	-74.44	-13	PASS
	3700.40	Vertical	-46.06	7.76	3.75	-44.20		
	5550.60	Vertical	-47.17	9.84	4.94	-44.42		
	7400.80	Vertical	-39.63	10.21	5.32	-36.89		
	9251.00	Vertical	-43.00	11.36	6.02	-39.81		
	11101.20	Vertical	-44.54	14.52	6.68	-38.85		
LTE BAND 2 5MHz Middle	88.76	Vertical	-75.26	3.35	0.38	-74.44	-13	PASS
	3760.00	Vertical	-47.39	7.76	3.75	-45.53		
	5640.00	Vertical	-46.98	9.84	4.94	-44.23		
	7520.00	Vertical	-42.61	10.21	5.32	-39.87		
	9400.00	Vertical	-42.03	11.36	6.02	-38.84		
	11280.00	Vertical	-45.96	14.52	6.68	-40.27		
LTE BAND 2 5MHz Highest	88.69	Vertical	-75.22	3.35	0.38	-74.40	-13	PASS
	3819.60	Vertical	-46.98	7.79	3.53	-44.87		
	5729.40	Vertical	-41.45	9.88	5.02	-38.74		
	7639.20	Vertical	-37.66	10.25	5.54	-35.10		
	9549.00	Vertical	-44.51	11.38	6.16	-41.44		
	11458.80	Vertical	-46.93	14.56	6.72	-41.24		
LTE BAND 2 10MHz Lowest	87.76	Vertical	-75.21	3.35	0.38	-74.39	-13	PASS
	3700.40	Vertical	-46.28	7.76	3.75	-44.42		
	5550.60	Vertical	-47.09	9.84	4.94	-44.34		
	7400.80	Vertical	-39.55	10.21	5.32	-36.81		
	9251.00	Vertical	-42.92	11.36	6.02	-39.73		
	11101.20	Vertical	-44.46	14.52	6.68	-38.77		
LTE BAND 2 10MHz Middle	88.59	Vertical	-75.26	3.35	0.38	-74.44	-13	PASS
	3760.00	Vertical	-47.39	7.76	3.75	-45.53		
	5640.00	Vertical	-46.97	9.84	4.94	-44.22		
	7520.00	Vertical	-42.61	10.21	5.32	-39.87		
	9400.00	Vertical	-42.02	11.36	6.02	-38.83		
	11280.00	Vertical	-45.96	14.52	6.68	-40.27		
LTE BAND 2 10MHz Highest	88.67	Vertical	-75.22	3.35	0.38	-74.40	-13	PASS
	3819.60	Vertical	-46.97	7.79	3.53	-44.86		
	5729.40	Vertical	-41.45	9.88	5.02	-38.74		
	7639.20	Vertical	-37.66	10.25	5.54	-35.10		
	9549.00	Vertical	-44.51	11.38	6.16	-41.44		
	11458.80	Vertical	-46.92	14.56	6.72	-41.23		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 15MHz Lowest	87.78	Vertical	-75.03	3.35	0.38	-74.21	-13	PASS
	3700.40	Vertical	-45.96	7.76	3.75	-44.10		
	5550.60	Vertical	-47.07	9.84	4.94	-44.32		
	7400.80	Vertical	-39.54	10.21	5.32	-36.80		
	9251.00	Vertical	-42.91	11.36	6.02	-39.72		
	11101.20	Vertical	-44.44	14.52	6.68	-38.75		
LTE BAND 2 15MHz Middle	88.58	Vertical	-75.10	3.35	0.38	-74.28	-13	PASS
	3760.00	Vertical	-47.29	7.76	3.75	-45.43		
	5640.00	Vertical	-46.87	9.84	4.94	-44.12		
	7520.00	Vertical	-42.52	10.21	5.32	-39.78		
	9400.00	Vertical	-41.94	11.36	6.02	-38.75		
	11280.00	Vertical	-45.86	14.52	6.68	-40.17		
LTE BAND 2 15MHz Highest	88.76	Vertical	-75.06	3.35	0.38	-74.24	-13	PASS
	3819.60	Vertical	-46.87	7.79	3.53	-44.76		
	5729.40	Vertical	-41.36	9.88	5.02	-38.65		
	7639.20	Vertical	-37.58	10.25	5.54	-35.02		
	9549.00	Vertical	-44.41	11.38	6.16	-41.34		
	11458.80	Vertical	-46.82	14.56	6.72	-41.13		
LTE BAND 2 20MHz Lowest	87.59	Vertical	-75.07	3.35	0.38	-74.25	-13	PASS
	3700.40	Vertical	-45.94	7.76	3.75	-44.08		
	5550.60	Vertical	-47.05	9.84	4.94	-44.30		
	7400.80	Vertical	-39.53	10.21	5.32	-36.79		
	9251.00	Vertical	-42.89	11.36	6.02	-39.70		
	11101.20	Vertical	-44.43	14.52	6.68	-38.74		
LTE BAND 2 20MHz Middle	88.85	Vertical	-75.07	3.35	0.38	-74.25	-13	PASS
	3760.00	Vertical	-47.27	7.76	3.75	-45.41		
	5640.00	Vertical	-46.85	9.84	4.94	-44.10		
	7520.00	Vertical	-42.50	10.21	5.32	-39.76		
	9400.00	Vertical	-41.92	11.36	6.02	-38.73		
	11280.00	Vertical	-45.84	14.52	6.68	-40.15		
LTE BAND 2 20MHz Highest	88.66	Vertical	-75.03	3.35	0.38	-74.21	-13	PASS
	3819.60	Vertical	-46.85	7.79	3.53	-44.74		
	5729.40	Vertical	-41.34	9.88	5.02	-38.63		
	7639.20	Vertical	-37.56	10.25	5.54	-35.00		
	9549.00	Vertical	-44.39	11.38	6.16	-41.32		
	11458.80	Vertical	-46.80	14.56	6.72	-41.11		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 1.4MHz Lowest	87.78	Vertical	-75.18	3.35	0.38	-74.36	-13	PASS
	3421.40	Vertical	-46.00	7.76	3.75	-44.14		
	5132.10	Vertical	-47.12	9.84	4.94	-44.37		
	6842.80	Vertical	-39.58	10.21	5.32	-36.84		
	8553.50	Vertical	-42.95	11.36	6.02	-39.76		
	10264.20	Vertical	-44.50	14.52	6.68	-38.81		
LTE BAND 4 1.4MHz Middle	88.68	Vertical	-75.18	3.35	0.38	-74.36	-13	PASS
	3465.00	Vertical	-47.33	7.76	3.75	-45.47		
	5197.50	Vertical	-46.92	9.84	4.94	-44.17		
	6930.00	Vertical	-42.56	10.21	5.32	-39.82		
	8662.50	Vertical	-41.97	11.36	6.02	-38.78		
	10395.00	Vertical	-45.91	14.52	6.68	-40.22		
LTE BAND 4 1.4MHz Highest	88.78	Vertical	-75.14	3.35	0.38	-74.32	-13	PASS
	3508.60	Vertical	-46.92	7.79	3.53	-44.81		
	5262.90	Vertical	-41.40	9.88	5.02	-38.69		
	7017.20	Vertical	-37.62	10.25	5.54	-35.06		
	8771.50	Vertical	-44.47	11.38	6.16	-41.40		
	10525.80	Vertical	-46.87	14.56	6.72	-41.18		
LTE BAND 4 3MHz Lowest	87.67	Vertical	-75.21	3.35	0.38	-74.39	-13	PASS
	3423.00	Vertical	-46.02	7.76	3.75	-44.16		
	5134.50	Vertical	-47.14	9.84	4.94	-44.39		
	6846.00	Vertical	-39.59	10.21	5.32	-36.85		
	8557.50	Vertical	-42.97	11.36	6.02	-39.78		
	10269.00	Vertical	-44.51	14.52	6.68	-38.82		
LTE BAND 4 3MHz Middle	88.58	Vertical	-75.23	3.35	0.38	-74.41	-13	PASS
	3508.60	Vertical	-47.35	7.76	3.75	-45.49		
	5262.90	Vertical	-46.94	9.84	4.94	-44.19		
	7017.20	Vertical	-42.58	10.21	5.32	-39.84		
	8771.50	Vertical	-41.99	11.36	6.02	-38.80		
	10525.80	Vertical	-45.93	14.52	6.68	-40.24		
LTE BAND 4 3MHz Highest	88.76	Vertical	-75.17	3.35	0.38	-74.35	-13	PASS
	3507.00	Vertical	-46.94	7.79	3.53	-44.83		
	5260.50	Vertical	-41.42	9.88	5.02	-38.71		
	7014.00	Vertical	-37.64	10.25	5.54	-35.08		
	8767.50	Vertical	-44.48	11.38	6.16	-41.41		
	10521.00	Vertical	-46.89	14.56	6.72	-41.20		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 5MHz Lowest	87.58	Vertical	-75.21	3.35	0.38	-74.39	-13	PASS
	3425.00	Vertical	-46.01	7.76	3.75	-44.15		
	5137.50	Vertical	-47.12	9.84	4.94	-44.37		
	6850.00	Vertical	-39.58	10.21	5.32	-36.84		
	8562.50	Vertical	-42.95	11.36	6.02	-39.76		
	10275.00	Vertical	-44.49	14.52	6.68	-38.80		
LTE BAND 4 5MHz Middle	88.76	Vertical	-75.18	3.35	0.38	-74.36	-13	PASS
	3423.00	Vertical	-47.34	7.76	3.75	-45.48		
	5134.50	Vertical	-46.92	9.84	4.94	-44.17		
	6846.00	Vertical	-42.57	10.21	5.32	-39.83		
	8557.50	Vertical	-41.98	11.36	6.02	-38.79		
	10269.00	Vertical	-45.91	14.52	6.68	-40.22		
LTE BAND 4 5MHz Highest	88.67	Vertical	-75.14	3.35	0.38	-74.32	-13	PASS
	3505.00	Vertical	-46.92	7.79	3.53	-44.81		
	5257.50	Vertical	-41.41	9.88	5.02	-38.70		
	7010.00	Vertical	-37.63	10.25	5.54	-35.07		
	8762.50	Vertical	-44.46	11.38	6.16	-41.39		
	10515.00	Vertical	-46.87	14.56	6.72	-41.18		
LTE BAND 4 10MHz Lowest	87.57	Vertical	-75.12	3.35	0.38	-74.30	-13	PASS
	3430.00	Vertical	-45.76	7.76	3.75	-43.90		
	5145.00	Vertical	-46.88	9.84	4.94	-44.13		
	6860.00	Vertical	-39.39	10.21	5.32	-36.65		
	8575.00	Vertical	-42.72	11.36	6.02	-39.53		
	10290.00	Vertical	-44.25	14.52	6.68	-38.56		
LTE BAND 4 10MHz Middle	88.56	Vertical	-75.07	3.35	0.38	-74.25	-13	PASS
	3505.00	Vertical	-47.31	7.76	3.75	-45.45		
	5257.50	Vertical	-46.89	9.84	4.94	-44.14		
	7010.00	Vertical	-42.54	10.21	5.32	-39.80		
	8762.50	Vertical	-41.95	11.36	6.02	-38.76		
	10515.00	Vertical	-45.87	14.52	6.68	-40.18		
LTE BAND 4 10MHz Highest	88.57	Vertical	-75.08	3.35	0.38	-74.26	-13	PASS
	3500.00	Vertical	-46.89	7.79	3.53	-44.78		
	5250.00	Vertical	-41.38	9.88	5.02	-38.67		
	7000.00	Vertical	-37.60	10.25	5.54	-35.04		
	8750.00	Vertical	-44.43	11.38	6.16	-41.36		
	10500.00	Vertical	-46.84	14.56	6.72	-41.15		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 15MHz Lowest	87.66	Vertical	-75.08	3.35	0.38	-74.26	-13	PASS
	3435.00	Vertical	-45.94	7.76	3.75	-44.08		
	5152.50	Vertical	-47.06	9.84	4.94	-44.31		
	6870.00	Vertical	-39.54	10.21	5.32	-36.80		
	8587.50	Vertical	-42.90	11.36	6.02	-39.71		
	10305.00	Vertical	-44.44	14.52	6.68	-38.75		
LTE BAND 4 15MHz Middle	88.52	Vertical	-75.08	3.35	0.38	-74.26	-13	PASS
	3505.00	Vertical	-47.28	7.76	3.75	-45.42		
	5257.50	Vertical	-46.87	9.84	4.94	-44.12		
	7010.00	Vertical	-42.51	10.21	5.32	-39.77		
	8762.50	Vertical	-41.93	11.36	6.02	-38.74		
	10515.00	Vertical	-45.84	14.52	6.68	-40.15		
LTE BAND 4 15MHz Highest	88.74	Vertical	-75.04	3.35	0.38	-74.22	-13	PASS
	3495.00	Vertical	-46.87	7.79	3.53	-44.76		
	5242.50	Vertical	-41.35	9.88	5.02	-38.64		
	6990.00	Vertical	-37.57	10.25	5.54	-35.01		
	8737.50	Vertical	-44.41	11.38	6.16	-41.34		
	10485.00	Vertical	-46.82	14.56	6.72	-41.13		
LTE BAND 4 20MHz Lowest	87.26	Vertical	-75.12	3.35	0.38	-74.30	-13	PASS
	3440.00	Vertical	-45.97	7.76	3.75	-44.11		
	5160.00	Vertical	-47.08	9.84	4.94	-44.33		
	6880.00	Vertical	-39.55	10.21	5.32	-36.81		
	8600.00	Vertical	-42.92	11.36	6.02	-39.73		
	10320.00	Vertical	-44.46	14.52	6.68	-38.77		
LTE BAND 4 20MHz Middle	88.74	Vertical	-75.17	3.35	0.38	-74.35	-13	PASS
	3505.00	Vertical	-47.30	7.76	3.75	-45.44		
	5257.50	Vertical	-46.89	9.84	4.94	-44.14		
	7010.00	Vertical	-42.53	10.21	5.32	-39.79		
	8762.50	Vertical	-41.95	11.36	6.02	-38.76		
	10515.00	Vertical	-45.87	14.52	6.68	-40.18		
LTE BAND 4 20MHz Highest	88.56	Vertical	-75.08	3.35	0.38	-74.26	-13	PASS
	3490.00	Vertical	-46.89	7.79	3.53	-44.78		
	5235.00	Vertical	-41.18	9.88	5.02	-38.47		
	6980.00	Vertical	-37.42	10.25	5.54	-34.86		
	8725.00	Vertical	-44.22	11.38	6.16	-41.15		
	10470.00	Vertical	-46.63	14.56	6.72	-40.94		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 1.4MHz Lowest	87.75	Vertical	-75.14	3.35	0.38	-74.32	-13	PASS
	3700.40	Vertical	-45.99	7.76	3.75	-44.13		
	5550.60	Vertical	-47.10	9.84	4.94	-44.35		
	7400.80	Vertical	-39.56	10.21	5.32	-36.82		
	9251.00	Vertical	-42.93	11.36	6.02	-39.74		
	11101.20	Vertical	-44.47	14.52	6.68	-38.78		
LTE BAND 5 1.4MHz Middle	88.62	Vertical	-75.14	3.35	0.38	-74.32	-13	PASS
	3760.00	Vertical	-47.32	7.76	3.75	-45.46		
	5640.00	Vertical	-46.90	9.84	4.94	-44.15		
	7520.00	Vertical	-42.54	10.21	5.32	-39.80		
	9400.00	Vertical	-41.96	11.36	6.02	-38.77		
	11280.00	Vertical	-45.89	14.52	6.68	-40.20		
LTE BAND 5 1.4MHz Highest	88.53	Vertical	-75.10	3.35	0.38	-74.28	-13	PASS
	3819.60	Vertical	-46.90	7.79	3.53	-44.79		
	5729.40	Vertical	-41.38	9.88	5.02	-38.67		
	7639.20	Vertical	-37.60	10.25	5.54	-35.04		
	9549.00	Vertical	-44.44	11.38	6.16	-41.37		
	11458.80	Vertical	-46.85	14.56	6.72	-41.16		
LTE BAND 5 3MHz Lowest	87.67	Vertical	-75.09	3.35	0.38	-74.27	-13	PASS
	3700.40	Vertical	-45.95	7.76	3.75	-44.09		
	5550.60	Vertical	-47.07	9.84	4.94	-44.32		
	7400.80	Vertical	-39.54	10.21	5.32	-36.80		
	9251.00	Vertical	-42.90	11.36	6.02	-39.71		
	11101.20	Vertical	-44.44	14.52	6.68	-38.75		
LTE BAND 5 3MHz Middle	88.58	Vertical	-75.22	3.35	0.38	-74.40	-13	PASS
	3760.00	Vertical	-47.37	7.76	3.75	-45.51		
	5640.00	Vertical	-46.95	9.84	4.94	-44.20		
	7520.00	Vertical	-42.59	10.21	5.32	-39.85		
	9400.00	Vertical	-42.00	11.36	6.02	-38.81		
	11280.00	Vertical	-45.93	14.52	6.68	-40.24		
LTE BAND 5 3MHz Highest	88.57	Vertical	-75.18	3.35	0.38	-74.36	-13	PASS
	3819.60	Vertical	-46.95	7.79	3.53	-44.84		
	5729.40	Vertical	-41.23	9.88	5.02	-38.52		
	7639.20	Vertical	-37.47	10.25	5.54	-34.91		
	9549.00	Vertical	-44.28	11.38	6.16	-41.21		
	11458.80	Vertical	-46.69	14.56	6.72	-41.00		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 5MHz Lowest	87.74	Vertical	-74.70	3.35	0.38	-73.88	-13	PASS
	3700.40	Vertical	-45.71	7.76	3.75	-43.85		
	5550.60	Vertical	-46.81	9.84	4.94	-44.06		
	7400.80	Vertical	-39.34	10.21	5.32	-36.60		
	9251.00	Vertical	-42.68	11.36	6.02	-39.49		
	11101.20	Vertical	-44.20	14.52	6.68	-38.51		
LTE BAND 5 5MHz Middle	88.58	Vertical	-74.70	3.35	0.38	-73.88	-13	PASS
	3760.00	Vertical	-47.03	7.76	3.75	-45.17		
	5640.00	Vertical	-46.63	9.84	4.94	-43.88		
	7520.00	Vertical	-42.29	10.21	5.32	-39.55		
	9400.00	Vertical	-41.71	11.36	6.02	-38.52		
	11280.00	Vertical	-45.61	14.52	6.68	-39.92		
LTE BAND 5 5MHz Highest	88.74	Vertical	-74.66	3.35	0.38	-73.84	-13	PASS
	3819.60	Vertical	-46.63	7.79	3.53	-44.52		
	5729.40	Vertical	-41.14	9.88	5.02	-38.43		
	7639.20	Vertical	-37.38	10.25	5.54	-34.82		
	9549.00	Vertical	-44.17	11.38	6.16	-41.10		
	11458.80	Vertical	-46.58	14.56	6.72	-40.89		
LTE BAND 5 10MHz Lowest	87.55	Vertical	-74.73	3.35	0.38	-73.91	-13	PASS
	3700.40	Vertical	-45.73	7.76	3.75	-43.87		
	5550.60	Vertical	-46.82	9.84	4.94	-44.07		
	7400.80	Vertical	-39.35	10.21	5.32	-36.61		
	9251.00	Vertical	-42.70	11.36	6.02	-39.51		
	11101.20	Vertical	-44.22	14.52	6.68	-38.53		
LTE BAND 5 10MHz Middle	88.62	Vertical	-74.80	3.35	0.38	-73.98	-13	PASS
	3760.00	Vertical	-47.09	7.76	3.75	-45.23		
	5640.00	Vertical	-46.68	9.84	4.94	-43.93		
	7520.00	Vertical	-42.36	10.21	5.32	-39.62		
	9400.00	Vertical	-41.77	11.36	6.02	-38.58		
	11280.00	Vertical	-45.67	14.52	6.68	-39.98		
LTE BAND 5 10MHz Highest	88.57	Vertical	-74.76	3.35	0.38	-73.94	-13	PASS
	3819.60	Vertical	-46.68	7.79	3.53	-44.57		
	5729.40	Vertical	-41.01	9.88	5.02	-38.30		
	7639.20	Vertical	-37.27	10.25	5.54	-34.71		
	9549.00	Vertical	-44.03	11.38	6.16	-40.96		
	11458.80	Vertical	-46.42	14.56	6.72	-40.73		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 1.4MHz Lowest	88.62	Vertical	-75.79	3.35	0.38	-74.97	-13	PASS
	1399.40	Vertical	-46.37	7.76	3.75	-44.51		
	2099.10	Vertical	-47.51	9.84	4.94	-44.76		
	2798.80	Vertical	-39.89	10.21	5.32	-37.15		
	3498.50	Vertical	-43.30	11.36	6.02	-40.11		
	4198.20	Vertical	-44.85	14.52	6.68	-39.16		
LTE BAND 12 1.4MHz Middle	89.58	Vertical	-75.79	3.35	0.38	-74.97	-13	PASS
	1415.00	Vertical	-47.72	7.76	3.75	-45.86		
	2122.50	Vertical	-47.32	9.84	4.94	-44.57		
	2830.00	Vertical	-42.91	10.21	5.32	-40.17		
	3537.50	Vertical	-42.32	11.36	6.02	-39.13		
	4245.00	Vertical	-46.27	14.52	6.68	-40.58		
LTE BAND 12 1.4MHz Highest	88.68	Vertical	-75.75	3.35	0.38	-74.93	-13	PASS
	1430.60	Vertical	-47.32	7.79	3.53	-45.21		
	2145.90	Vertical	-41.75	9.88	5.02	-39.04		
	2861.20	Vertical	-37.93	10.25	5.54	-35.37		
	3576.50	Vertical	-44.82	11.38	6.16	-41.75		
	4291.80	Vertical	-47.26	14.56	6.72	-41.57		
LTE BAND 12 3MHz Lowest	87.57	Vertical	-75.79	3.35	0.38	-74.97	-13	PASS
	1401.00	Vertical	-46.37	7.76	3.75	-44.51		
	2101.50	Vertical	-47.18	9.84	4.94	-44.43		
	2802.00	Vertical	-39.63	10.21	5.32	-36.89		
	3502.50	Vertical	-43.01	11.36	6.02	-39.82		
	4203.00	Vertical	-44.55	14.52	6.68	-38.86		
LTE BAND12 3MHz Middle	88.62	Vertical	-75.36	3.35	0.38	-74.54	-13	PASS
	1415.00	Vertical	-47.46	7.76	3.75	-45.60		
	2122.50	Vertical	-47.04	9.84	4.94	-44.29		
	2830.00	Vertical	-42.67	10.21	5.32	-39.93		
	3537.50	Vertical	-42.09	11.36	6.02	-38.90		
	4245.00	Vertical	-46.02	14.52	6.68	-40.33		
LTE BAND 12 3MHz Highest	88.34	Vertical	-75.32	3.35	0.38	-74.50	-13	PASS
	1429.00	Vertical	-47.04	7.79	3.53	-44.93		
	2143.50	Vertical	-41.32	9.88	5.02	-38.61		
	2858.00	Vertical	-37.55	10.25	5.54	-34.99		
	3572.50	Vertical	-44.37	11.38	6.16	-41.30		
	4287.00	Vertical	-46.77	14.56	6.72	-41.08		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 5MHz Lowest	87.52	Vertical	-75.40	3.35	0.38	-74.58	-13	PASS
	1403.00	Vertical	-46.15	7.76	3.75	-44.29		
	2104.50	Vertical	-47.27	9.84	4.94	-44.52		
	2806.00	Vertical	-39.70	10.21	5.32	-36.96		
	3507.50	Vertical	-43.08	11.36	6.02	-39.89		
	4209.00	Vertical	-44.63	14.52	6.68	-38.94		
LTE BAND 12 5MHz Middle	88.26	Vertical	-75.40	3.35	0.38	-74.58	-13	PASS
	1415.00	Vertical	-47.48	7.76	3.75	-45.62		
	2122.50	Vertical	-47.07	9.84	4.94	-44.32		
	2830.00	Vertical	-42.69	10.21	5.32	-39.95		
	3537.50	Vertical	-42.11	11.36	6.02	-38.92		
	4245.00	Vertical	-46.05	14.52	6.68	-40.36		
LTE BAND 12 5MHz Highest	88.56	Vertical	-75.36	3.35	0.38	-74.54	-13	PASS
	1427.00	Vertical	-47.07	7.79	3.53	-44.96		
	2140.50	Vertical	-41.54	9.88	5.02	-38.83		
	2854.00	Vertical	-37.74	10.25	5.54	-35.18		
	3567.50	Vertical	-44.60	11.38	6.16	-41.53		
	4281.00	Vertical	-47.02	14.56	6.72	-41.33		
LTE BAND 12 10MHz Lowest	87.67	Vertical	-75.40	3.35	0.38	-74.58	-13	PASS
	1428.00	Vertical	-46.40	7.76	3.75	-44.54		
	2142.00	Vertical	-47.21	9.84	4.94	-44.46		
	2856.00	Vertical	-39.65	10.21	5.32	-36.91		
	3570.00	Vertical	-43.03	11.36	6.02	-39.84		
	4284.00	Vertical	-44.58	14.52	6.68	-38.89		
LTE BAND 12 10MHz Middle	88.76	Vertical	-75.45	3.35	0.38	-74.63	-13	PASS
	1415.00	Vertical	-47.51	7.76	3.75	-45.65		
	2122.50	Vertical	-47.10	9.84	4.94	-44.35		
	2830.00	Vertical	-42.72	10.21	5.32	-39.98		
	3537.50	Vertical	-42.13	11.36	6.02	-38.94		
	4245.00	Vertical	-46.08	14.52	6.68	-40.39		
LTE BAND 12 10MHz Highest	88.58	Vertical	-75.41	3.35	0.38	-74.59	-13	PASS
	1422.00	Vertical	-47.10	7.79	3.53	-44.99		
	2133.00	Vertical	-41.37	9.88	5.02	-38.66		
	2844.00	Vertical	-37.59	10.25	5.54	-35.03		
	3555.00	Vertical	-44.42	11.38	6.16	-41.35		
	4266.00	Vertical	-46.84	14.56	6.72	-41.15		

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 13 5MHz Lowest	87.76	Vertical	-75.22	3.35	0.38	-74.40	-13	PASS
	1600.32	Vertical	-46.08	7.76	3.75	-44.22	-40	
	2119.50	Vertical	-47.19	9.84	4.94	-44.44	-13	
	2826.00	Vertical	-39.64	10.21	5.32	-36.90		
	3532.50	Vertical	-43.02	11.36	6.02	-39.83		
	4239.00	Vertical	-44.55	14.52	6.68	-38.86		
LTE BAND 13 5MHz Middle	88.26	Vertical	-75.29	3.35	0.38	-74.47	-13	PASS
	1600.65	Vertical	-47.41	7.76	3.75	-45.55	-40	
	2130.00	Vertical	-47.00	9.84	4.94	-44.25	-13	
	2840.00	Vertical	-42.63	10.21	5.32	-39.89		
	3550.00	Vertical	-42.05	11.36	6.02	-38.86		
	4260.00	Vertical	-45.98	14.52	6.68	-40.29		
LTE BAND 13 5MHz Highest	88.67	Vertical	-75.25	3.35	0.38	-74.43	-13	PASS
	1601.63	Vertical	-47.00	7.79	3.53	-44.89	-40	
	2140.50	Vertical	-41.47	9.88	5.02	-38.76	-13	
	2854.00	Vertical	-37.68	10.25	5.54	-35.12		
	3567.50	Vertical	-44.52	11.38	6.16	-41.45		
	4281.00	Vertical	-46.94	14.56	6.72	-41.25		
LTE BAND 13 10MHz Middle	88.16	Vertical	-75.26	3.35	0.38	-74.44	-13	PASS
	1602.65	Vertical	-47.39	7.76	3.75	-45.53	-40	
	2130.00	Vertical	-46.97	9.84	4.94	-44.22	-13	
	2840.00	Vertical	-42.61	10.21	5.32	-39.87		
	3550.00	Vertical	-42.03	11.36	6.02	-38.84		
	4260.00	Vertical	-45.96	14.52	6.68	-40.27		

6. PHOTOGRAPHS OF TEST SET-UP

Please see setup photo.

7. PHOTOGRAPHS OF THE EUT

Please see external photo and internal photo.

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