

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) QPSK	Lowest	25	0	H	V	24.13	38.45	Pass
					H	23.06		
				E1	V	22.84		
					H	23.84		
				E2	V	23.28		
					H	23.30		
	Middle	25	0	H	V	23.02	38.45	Pass
					H	23.15		
				E1	V	23.61		
					H	24.13		
				E2	V	23.08		
					H	23.20		
	Highest	25	0	H	V	23.43	38.45	Pass
					H	23.18		
				E1	V	23.25		
					H	23.08		
				E2	V	23.05		
					H	23.41		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) QPSK	Lowest	50	0	H	V	23.89	38.45	Pass
					H	23.66		
				E1	V	22.90		
					H	24.04		
				E2	V	23.11		
					H	23.23		
	Middle	50	0	H	V	23.46	38.45	Pass
					H	23.59		
				E1	V	23.06		
					H	23.53		
				E2	V	23.31		
					H	23.14		
	Highest	50	0	H	V	22.95	38.45	Pass
					H	23.56		
				E1	V	22.93		
					H	22.92		
				E2	V	23.83		
					H	23.44		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (1.4MHz) 16 QAM	Lowest	6	0	H	V	23.54	38.45	Pass
					H	23.64		
				E1	V	23.52		
					H	23.47		
				E2	V	24.01		
					H	23.55		
	Middle	6	0	H	V	23.23	38.45	Pass
					H	23.50		
				E1	V	23.25		
					H	24.00		
				E2	V	23.12		
					H	23.07		
	Highest	6	0	H	V	23.00	38.45	Pass
					H	23.15		
				E1	V	23.65		
					H	23.31		
				E2	V	23.78		
					H	23.53		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (3MHz) 16 QAM	Lowest	15	0	H	V	24.13	38.45	Pass
					H	23.03		
				E1	V	22.82		
					H	24.00		
				E2	V	23.52		
					H	23.31		
	Middle	15	0	H	V	23.49	38.45	Pass
					H	23.85		
				E1	V	23.57		
					H	23.19		
				E2	V	23.29		
					H	23.92		
	Highest	15	0	H	V	23.43	38.45	Pass
					H	23.55		
				E1	V	23.57		
					H	23.76		
				E2	V	23.04		
					H	23.23		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) 16 QAM	Lowest	25	0	H	V	23.75	38.45	Pass
					H	23.51		
				E1	V	23.29		
					H	23.45		
				E2	V	23.36		
					H	23.74		
	Middle	25	0	H	V	23.60	38.45	Pass
					H	23.58		
				E1	V	23.12		
					H	23.33		
				E2	V	23.83		
					H	23.99		
	Highest	25	0	H	V	22.96	38.45	Pass
					H	23.34		
				E1	V	22.98		
					H	23.75		
				E2	V	23.09		
					H	23.59		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) 16 QAM	Lowest	50	0	H	V	23.39	38.45	Pass
					H	22.91		
				E1	V	23.45		
					H	23.84		
				E2	V	23.68		
					H	23.46		
	Middle	50	0	H	V	23.08	38.45	Pass
					H	22.92		
				E1	V	23.37		
					H	23.76		
				E2	V	23.75		
					H	23.69		
	Highest	50	0	H	V	23.61	38.45	Pass
					H	22.91		
				E1	V	23.51		
					H	23.43		
				E2	V	23.17		
					H	23.07		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) QPSK	Lowest	25	0	H	V	23.20	33.00	Pass
					H	23.02		
				E1	V	23.56		
					H	23.19		
				E2	V	23.13		
					H	23.52		
	Middle	25	0	H	V	23.71	33.00	Pass
					H	23.41		
				E1	V	23.16		
					H	23.48		
				E2	V	23.24		
					H	23.77		
	Highest	25	0	H	V	23.46	33.00	Pass
					H	23.46		
				E1	V	23.77		
					H	23.64		
				E2	V	23.43		
					H	23.20		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) QPSK	Lowest	50	0	H	V	23.71	33.00	Pass
					H	23.06		
				E1	V	22.88		
					H	23.15		
				E2	V	23.60		
					H	23.19		
	Middle	50	0	H	V	23.66	33.00	Pass
					H	23.29		
				E1	V	22.74		
					H	23.60		
				E2	V	24.00		
					H	23.68		
	Highest	50	0	H	V	23.50	33.00	Pass
					H	23.56		
				E1	V	23.34		
					H	23.53		
				E2	V	23.72		
					H	22.88		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) QPSK	Lowest	75	0	H	V	23.88	33.00	Pass
					H	22.84		
				E1	V	23.55		
					H	23.88		
				E2	V	24.04		
					H	23.77		
	Middle	75	0	H	V	23.30	33.00	Pass
					H	23.42		
				E1	V	23.47		
					H	24.04		
				E2	V	23.12		
					H	23.68		
	Highest	75	0	H	V	23.57	33.00	Pass
					H	23.10		
				E1	V	23.71		
					H	23.00		
				E2	V	23.04		
					H	22.79		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) QPSK	Lowest	100	0	H	V	23.58	33.00	Pass
					H	23.53		
				E1	V	23.05		
					H	24.02		
				E2	V	23.63		
					H	23.13		
	Middle	100	0	H	V	23.51	33.00	Pass
					H	23.03		
				E1	V	23.17		
					H	24.06		
				E2	V	23.67		
					H	23.79		
	Highest	100	0	H	V	23.71	33.00	Pass
					H	23.73		
				E1	V	23.42		
					H	23.41		
				E2	V	23.43		
					H	22.90		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) 16 QAM	Lowest	25	0	H	V	23.59	33.00	Pass
					H	23.08		
				E1	V	22.96		
					H	23.83		
				E2	V	24.01		
					H	23.25		
	Middle	25	0	H	V	23.88	33.00	Pass
					H	23.35		
				E1	V	22.78		
					H	23.62		
				E2	V	23.39		
					H	23.09		
	Highest	25	0	H	V	23.14	33.00	Pass
					H	23.01		
				E1	V	23.50		
					H	23.57		
				E2	V	23.26		
					H	23.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) 16 QAM	Lowest	50	0	H	V	23.24	33.00	Pass
					H	22.89		
				E1	V	23.73		
					H	23.89		
				E2	V	23.98		
					H	22.80		
	Middle	50	0	H	V	23.33	33.00	Pass
					H	23.27		
				E1	V	23.17		
					H	23.59		
				E2	V	23.81		
					H	23.72		
	Highest	50	0	H	V	23.57	33.00	Pass
					H	23.27		
				E1	V	22.85		
					H	23.35		
				E2	V	23.92		
					H	23.42		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) 16 QAM	Lowest	75	0	H	V	23.16	33.00	Pass
					H	22.88		
				E1	V	23.33		
					H	23.29		
				E2	V	23.38		
					H	23.71		
	Middle	75	0	H	V	23.29	33.00	Pass
					H	23.43		
				E1	V	23.40		
					H	24.03		
				E2	V	23.06		
					H	23.10		
	Highest	75	0	H	V	23.28	33.00	Pass
					H	22.86		
				E1	V	23.78		
					H	23.32		
				E2	V	23.73		
					H	22.90		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) 16 QAM	Lowest	100	0	H	V	23.93	33.00	Pass
					H	23.12		
				E1	V	23.64		
					H	23.48		
				E2	V	23.39		
					H	22.86		
	Middle	100	0	H	V	23.46	33.00	Pass
					H	23.67		
				E1	V	23.22		
					H	23.46		
				E2	V	23.57		
					H	23.09		
	Highest	100	0	H	V	23.15	33.00	Pass
					H	23.03		
				E1	V	22.86		
					H	23.36		
				E2	V	23.09		
					H	23.28		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) QPSK	Lowest	6	0	H	V	23.03	33.00	Pass
					H	23.57		
				E1	V	23.38		
					H	23.29		
				E2	V	23.39		
					H	23.18		
	Middle	6	0	H	V	22.99	33.00	Pass
					H	23.28		
				E1	V	23.66		
					H	22.33		
				E2	V	22.39		
					H	22.74		
	Highest	6	0	H	V	22.33	33.00	Pass
					H	22.88		
				E1	V	22.51		
					H	21.86		
				E2	V	23.18		
					H	22.31		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) QPSK	Lowest	15	0	H	V	22.89	33.00	Pass
					H	23.70		
				E1	V	23.48		
					H	23.66		
				E2	V	23.69		
					H	23.58		
	Middle	15	0	H	V	23.34	33.00	Pass
					H	23.56		
				E1	V	23.28		
					H	22.37		
				E2	V	21.84		
					H	22.33		
	Highest	15	0	H	V	23.06	33.00	Pass
					H	22.89		
				E1	V	23.15		
					H	22.39		
				E2	V	23.33		
					H	21.96		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) QPSK	Lowest	25	0	H	V	23.65	33.00	Pass
					H	23.77		
				E1	V	22.78		
					H	23.95		
				E2	V	23.86		
					H	23.96		
	Middle	25	0	H	V	23.59	33.00	Pass
					H	23.65		
				E1	V	23.41		
					H	22.54		
				E2	V	21.83		
					H	22.43		
	Highest	25	0	H	V	23.15	33.00	Pass
					H	23.39		
				E1	V	23.17		
					H	22.77		
				E2	V	22.83		
					H	21.92		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) QPSK	Lowest	50	0	H	V	23.01	33.00	Pass
					H	23.24		
				E1	V	23.16		
					H	23.29		
				E2	V	23.61		
					H	23.83		
	Middle	50	0	H	V	23.03	33.00	Pass
					H	23.09		
				E1	V	22.93		
					H	22.08		
				E2	V	22.14		
					H	22.41		
	Highest	50	0	H	V	22.93	33.00	Pass
					H	23.06		
				E1	V	22.48		
					H	21.92		
				E2	V	22.95		
					H	22.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) 16QAM	Lowest	6	0	H	V	23.54	33.00	Pass
					H	23.66		
				E1	V	23.75		
					H	23.13		
				E2	V	23.24		
					H	24.04		
	Middle	6	0	H	V	23.96	33.00	Pass
					H	23.04		
				E1	V	23.80		
					H	22.88		
				E2	V	22.65		
					H	21.97		
	Highest	6	0	H	V	22.89	33.00	Pass
					H	22.68		
				E1	V	22.51		
					H	22.49		
				E2	V	22.60		
					H	22.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) 16QAM	Lowest	15	0	H	V	23.27	33.00	Pass
					H	23.57		
				E1	V	22.81		
					H	23.48		
				E2	V	23.98		
					H	23.24		
	Middle	15	0	H	V	23.02	33.00	Pass
					H	23.61		
				E1	V	22.89		
					H	22.45		
				E2	V	21.77		
					H	22.12		
	Highest	15	0	H	V	22.82	33.00	Pass
					H	23.23		
				E1	V	22.49		
					H	22.23		
				E2	V	22.83		
					H	22.57		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) 16QAM	Lowest	25	0	H	V	23.07	33.00	Pass
					H	23.54		
				E1	V	23.01		
					H	23.80		
				E2	V	23.65		
					H	23.26		
	Middle	25	0	H	V	23.04	33.00	Pass
					H	23.68		
				E1	V	23.29		
					H	22.29		
				E2	V	22.75		
					H	22.55		
	Highest	25	0	H	V	22.41	33.00	Pass
					H	23.52		
				E1	V	22.95		
					H	22.19		
				E2	V	23.08		
					H	22.18		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) 16QAM	Lowest	50	0	H	V	23.26	33.00	Pass
					H	23.62		
				E1	V	23.61		
					H	23.60		
				E2	V	23.29		
					H	23.19		
	Middle	50	0	H	V	23.10	33.00	Pass
					H	23.68		
				E1	V	23.06		
					H	22.28		
				E2	V	22.09		
					H	22.45		
	Highest	50	0	H	V	22.52	33.00	Pass
					H	23.14		
				E1	V	22.99		
					H	22.72		
				E2	V	23.49		
					H	22.27		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) QPSK	Lowest	25	0	H	V	23.27	34.77	Pass
					H	23.74		
				E1	V	23.01		
					H	23.13		
				E2	V	23.61		
					H	23.57		
	Middle	25	0	H	V	23.17	34.77	Pass
					H	23.51		
				E1	V	23.59		
					H	22.13		
				E2	V	22.62		
					H	22.41		
	Highest	25	0	H	V	23.28	34.77	Pass
					H	23.13		
				E1	V	23.20		
					H	21.84		
				E2	V	22.69		
					H	22.54		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) QPSK	Middle	50	0	H	V	23.61	34.77	Pass
					H	23.25		
				E1	V	23.07		
					H	23.49		
				E2	V	23.85		
					H	23.55		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) 16QAM	Lowest	25	0	H	V	22.75	34.77	Pass
					H	23.76		
				E1	V	22.85		
					H	23.37		
				E2	V	23.76		
					H	23.81		
	Middle	25	0	H	V	23.12	34.77	Pass
					H	23.18		
				E1	V	22.89		
					H	22.75		
				E2	V	22.52		
					H	22.46		
	Highest	25	0	H	V	22.95	34.77	Pass
					H	23.48		
				E1	V	23.18		
					H	22.27		
				E2	V	23.38		
					H	22.30		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) 16QAM	Middle	50	0	H	V	23.19	34.77	Pass
					H	24.04		
				E1	V	23.74		
					H	23.25		
				E2	V	23.33		
					H	23.38		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) QPSK	Lowest	25	0	H	V	23.67	33.00	Pass
					H	23.38		
				E1	V	23.65		
					H	23.28		
				E2	V	24.01		
					H	23.97		
	Middle	25	0	H	V	23.20	33.00	Pass
					H	23.70		
				E1	V	23.05		
					H	22.87		
				E2	V	21.88		
					H	21.99		
	Highest	25	0	H	V	23.28	33.00	Pass
					H	22.76		
				E1	V	22.56		
					H	22.36		
				E2	V	23.46		
					H	21.77		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) QPSK	Lowest	50	0	H	V	23.24	33.00	Pass
					H	23.26		
				E1	V	23.54		
					H	23.87		
				E2	V	23.90		
					H	23.30		
	Middle	50	0	H	V	23.20	33.00	Pass
					H	23.60		
				E1	V	23.07		
					H	22.51		
				E2	V	22.60		
					H	22.50		
	Highest	50	0	H	V	22.74	33.00	Pass
					H	23.03		
				E1	V	22.72		
					H	21.87		
				E2	V	23.17		
					H	22.20		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) QPSK	Lowest	75	0	H	V	23.07	33.00	Pass
					H	23.30		
				E1	V	23.19		
					H	23.36		
				E2	V	23.19		
					H	24.01		
	Middle	75	0	H	V	23.55	33.00	Pass
					H	22.89		
				E1	V	23.08		
					H	22.60		
				E2	V	22.12		
					H	22.43		
	Highest	75	0	H	V	23.32	33.00	Pass
					H	23.13		
				E1	V	22.45		
					H	22.27		
				E2	V	23.44		
					H	22.10		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) QPSK	Lowest	100	0	H	V	23.29	33.00	Pass
					H	23.29		
				E1	V	23.63		
					H	24.02		
				E2	V	23.40		
					H	24.08		
	Middle	100	0	H	V	23.79	33.00	Pass
					H	22.77		
				E1	V	23.33		
					H	22.60		
				E2	V	22.59		
					H	21.99		
	Highest	100	0	H	V	22.92	33.00	Pass
					H	23.43		
				E1	V	22.35		
					H	22.22		
				E2	V	22.76		
					H	22.53		

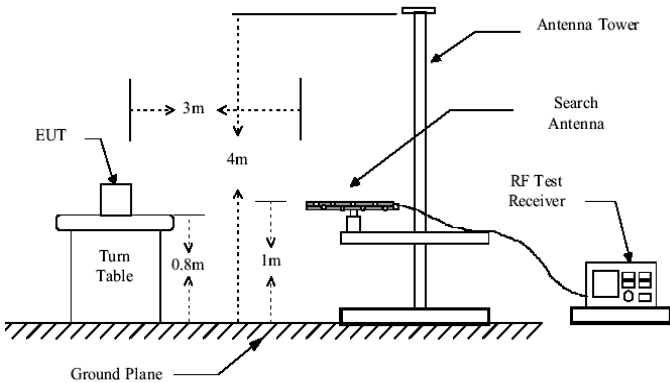
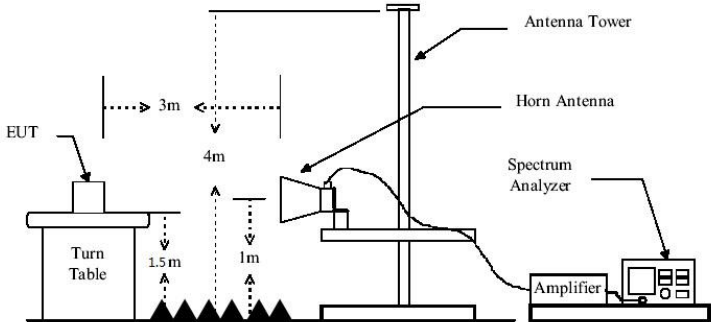
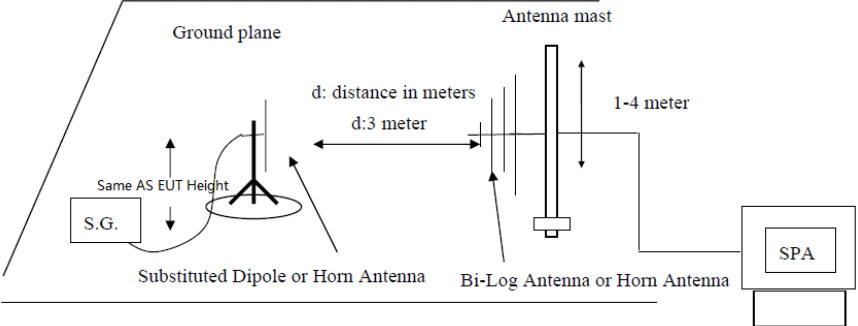
EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) 16 QAM	Lowest	25	0	H	V	22.81	33.00	Pass
					H	23.29		
				E1	V	23.55		
					H	23.29		
				E2	V	23.50		
					H	23.75		
	Middle	25	0	H	V	23.66	33.00	Pass
					H	23.32		
				E1	V	23.02		
					H	22.36		
				E2	V	22.65		
					H	22.57		
	Highest	25	0	H	V	22.94	33.00	Pass
					H	23.24		
				E1	V	22.93		
					H	22.79		
				E2	V	22.95		
					H	21.96		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) 16 QAM	Lowest	50	0	H	V	23.12	33.00	Pass
					H	23.67		
				E1	V	23.02		
					H	23.64		
				E2	V	23.78		
					H	23.32		
	Middle	50	0	H	V	23.84	33.00	Pass
					H	22.74		
				E1	V	22.91		
					H	22.30		
				E2	V	22.54		
					H	22.49		
	Highest	50	0	H	V	22.97	33.00	Pass
					H	23.06		
				E1	V	23.09		
					H	21.95		
				E2	V	23.31		
					H	21.68		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) 16 QAM	Lowest	75	0	H	V	22.93	33.00	Pass
					H	23.24		
				E1	V	23.09		
					H	23.57		
				E2	V	23.67		
					H	24.02		
	Middle	75	0	H	V	23.45	33.00	Pass
					H	23.16		
				E1	V	23.77		
					H	22.31		
				E2	V	21.88		
					H	22.08		
	Highest	75	0	H	V	23.25	33.00	Pass
					H	23.50		
				E1	V	22.88		
					H	21.90		
				E2	V	23.07		
					H	22.29		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) 16 QAM	Lowest	100	0	H	V	22.98	33.00	Pass
					H	23.74		
				E1	V	22.89		
					H	23.64		
				E2	V	23.62		
					H	22.96		
	Middle	100	0	H	V	23.15	33.00	Pass
					H	21.75		
				E1	V	23.20		
					H	22.61		
				E2	V	22.60		
					H	22.25		
	Highest	100	0	H	V	22.40	33.00	Pass
					H	22.39		
				E1	V	22.93		
					H	21.70		
				E2	V	22.33		
					H	23.75		

4.9 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.913(a), FCC part24.238(a) and FCC part27.53
Test Method:	ANSI C63.26:2015
Limit:	Band 2/4/5/12/17/26:-13dBm Band 7/41:-25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. 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. 3. 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. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ 5. Compliance with the provisions of part 27 paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data:

QPSK Mode:

Test mode:	LTE Band 2(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.26	V	-38.00	-13.00	Pass
5553.07	V	-33.95		
7402.46	V	-36.17		
9252.23	V	-36.07		
11102.49	V	-36.33		
3701.75	H	-34.57	-13.00	Pass
5552.55	H	-34.58		
7401.76	H	-33.93		
9252.73	H	-34.95		
11104.39	H	-36.59		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3758.93	V	-35.12	-13.00	Pass
5640.76	V	-35.51		
7517.94	V	-34.97		
9398.68	V	-35.14		
11279.58	V	-36.50		
3759.81	H	-37.13	-13.00	Pass
5640.53	H	-33.01		
7519.55	H	-36.06		
9400.17	H	-35.62		
11280.10	H	-36.41		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.02	V	-36.13	-13.00	Pass
5728.78	V	-34.06		
7635.75	V	-34.22		
9545.33	V	-33.76		
11454.66	V	-36.68		
3818.40	H	-36.29	-13.00	Pass
5726.80	H	-34.97		
7638.26	H	-35.74		
9546.36	H	-35.97		
11455.36	H	-36.28		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3420.13	V	-31.06	-13.00	Pass
5131.39	V	-31.08		
6841.36	V	-27.44		
8555.22	V	-29.09		
10263.62	V	-31.18		
3422.79	H	-27.38	-13.00	Pass
5133.14	H	-29.56		
6842.81	H	-27.43		
8552.14	H	-27.85		
10263.35	H	-36.35		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3464.24	V	-32.17	-13.00	Pass
5197.06	V	-31.90		
6929.99	V	-27.99		
8661.80	V	-29.78		
10395.65	V	-27.41		
3465.99	H	-27.25	-13.00	Pass
5197.67	H	-26.50		
6930.27	H	-28.00		
8660.79	H	-28.87		
10393.39	H	-28.72		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3507.19	V	-31.04	-13.00	Pass
5263.15	V	-29.94		
7015.97	V	-28.20		
8771.53	V	-31.35		
10525.48	V	-27.92		
3509.03	H	-27.80	-13.00	Pass
5264.92	H	-29.26		
7016.79	H	-28.67		
8772.41	H	-28.71		
10525.39	H	-27.98		

Remark:

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.98	V	-30.64	-13.00	Pass
2476.04	V	-28.07		
3302.85	V	-27.99		
4129.31	V	-30.12		
4953.64	V	-28.52		
1650.64	H	-30.38	-13.00	Pass
2478.38	H	-28.03		
3304.31	H	-31.25		
4126.73	H	-28.17		
4952.01	H	-30.24		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1671.83	V	-34.84	-13.00	Pass
2510.98	V	-27.72		
3346.77	V	-30.27		
4185.73	V	-32.25		
5020.10	V	-32.23		
1674.09	H	-32.39	-13.00	Pass
2511.88	H	-28.05		
3348.80	H	-30.27		
4186.30	H	-29.74		
5021.53	H	-27.03		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1695.20	V	-36.28	-13.00	Pass
2542.95	V	-29.28		
3394.00	V	-27.14		
4239.17	V	-29.42		
5089.08	V	-28.88		
1696.00	H	-29.35	-13.00	Pass
2544.63	H	-28.06		
3393.66	H	-30.74		
4239.20	H	-30.93		
5088.84	H	-30.49		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5006.36	V	-33.22	-25.00	Pass
7506.14	V	-28.92		
10011.04	V	-27.61		
12513.00	V	-26.84		
15014.02	V	-30.94		
5004.96	H	-29.76	-25.00	Pass
7507.76	H	-29.35		
10010.80	H	-31.85		
12512.65	H	-28.77		
15014.78	H	-30.40		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5069.71	V	-31.44	-25.00	Pass
7603.12	V	-31.19		
10139.61	V	-28.98		
12675.38	V	-27.94		
15210.18	V	-29.98		
5068.20	H	-28.54	-25.00	Pass
7606.53	H	-26.63		
10140.89	H	-29.37		
12674.14	H	-27.29		
15208.89	H	-30.85		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5136.26	V	-35.68	-25.00	Pass
7700.90	V	-28.18		
10267.77	V	-28.80		
12837.16	V	-31.25		
15404.76	V	-29.83		
5133.58	H	-29.97	-25.00	Pass
7702.10	H	-32.07		
10268.97	H	-30.91		
12836.48	H	-29.92		
15404.25	H	-29.07		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 12(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1400.28	V	-33.55	-13.00	Pass
2097.67	V	-31.81		
2796.45	V	-26.40		
3496.88	V	-31.56		
4197.23	V	-26.93		
1398.55	H	-29.04	-13.00	Pass
2100.43	H	-29.49		
2796.98	H	-27.55		
3498.03	H	-27.62		
4197.60	H	-27.38		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1412.78	V	-33.60	-13.00	Pass
2122.57	V	-28.20		
2828.67	V	-29.17		
3538.26	V	-27.91		
4245.27	V	-28.17		
1413.14	H	-27.56	-13.00	Pass
2121.47	H	-29.19		
2831.99	H	-28.28		
3538.16	H	-26.41		
4243.76	H	-29.18		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1429.97	V	-29.39	-13.00	Pass
2144.28	V	-25.49		
2861.34	V	-33.64		
3575.57	V	-27.56		
4291.73	V	-29.03		
1431.70	H	-28.37	-13.00	Pass
2146.12	H	-26.65		
2860.61	H	-29.92		
3575.68	H	-28.51		
4291.27	H	-30.52		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1587.28	V	-42.84	-40.00	Pass
771.16	V	-39.02	-35.00	Pass
801.59	V	-37.88	-35.00	Pass
5003.87	V	-34.95	-13.00	Pass
7508.52	V	-31.46		
10009.14	V	-26.34		
12510.09	V	-29.90		
15013.97	V	-26.91		
1585.45	H	-42.73	-40.00	Pass
768.88	H	-38.50	-35.00	Pass
799.56	H	-40.20	-35.00	Pass
5004.52	H	-28.69	-13.00	Pass
7506.30	H	-29.88		
10010.04	H	-32.48		
12510.51	H	-29.07		
15014.79	H	-27.86		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1592.20	V	-46.36	-40.00	Pass
770.83	V	-40.36	-35.00	Pass
801.67	V	-40.85	-35.00	Pass
5069.44	V	-27.51	-13.00	Pass
7603.67	V	-30.04		
10140.20	V	-28.11		
12673.17	V	-28.71		
15209.77	V	-31.15		
1594.38	H	-44.72	-40.00	Pass
769.01	H	-37.78	-35.00	Pass
799.05	H	-38.79	-35.00	Pass
5066.91	H	-28.77	-13.00	Pass
7602.56	H	-29.30		
10140.02	H	-28.46		
12675.42	H	-26.34		
15210.27	H	-27.64		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1580.06	V	-42.84	-40.00	Pass
768.69	V	-37.77	-35.00	Pass
798.10	V	-39.47	-35.00	Pass
5134.29	V	-34.59	-13.00	Pass
7704.02	V	-31.84		
10269.69	V	-28.16		
12837.18	V	-31.30		
15402.77	V	-29.37		
1579.64	H	-45.69	-40.00	Pass
769.83	H	-39.46	-35.00	Pass
800.70	H	-37.56	-35.00	Pass
5134.30	H	-32.01	-13.00	Pass
7701.66	H	-30.29		
10268.32	H	-32.44		
12835.60	H	-28.57		
15403.75	H	-30.13		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 41(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4997.10	V	-38.22	-25.00	Pass
7494.07	V	-37.05		
9993.45	V	-34.25		
12493.26	V	-32.52		
14990.58	V	-34.24		
4996.00	H	-37.99	-25.00	Pass
7494.77	H	-35.67		
9993.42	H	-33.85		
12491.83	H	-34.57		
14989.02	H	-34.46		
Test mode:	LTE Band 41(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5184.99	V	-35.93	-25.00	Pass
7778.67	V	-34.44		
10371.12	V	-32.41		
12964.41	V	-34.52		
15557.93	V	-35.22		
5184.47	H	-35.26	-25.00	Pass
7779.37	H	-35.71		
10372.11	H	-38.41		
12964.76	H	-36.61		
15557.01	H	-35.45		
Test mode:	LTE Band 41(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5373.85	V	-31.96	-25.00	Pass
8061.72	V	-36.26		
10749.61	V	-35.80		
13437.26	V	-35.97		
16123.27	V	-35.11		
5375.13	H	-35.10	-25.00	Pass
8060.90	H	-37.64		
10749.69	H	-32.26		
13438.28	H	-35.08		
16125.80	H	-38.54		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

16 QAM Mode:

Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3702.12	V	-33.71	-13.00	Pass
5550.56	V	-29.05		
7402.74	V	-35.15		
9253.67	V	-26.86		
11103.09	V	-34.72		
3701.96	H	-29.93	-13.00	Pass
5552.04	H	-37.08		
7401.68	H	-26.19		
9253.41	H	-34.53		
11103.33	H	-26.73		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.15	V	-30.49	-13.00	Pass
5641.02	V	-28.09		
7519.20	V	-27.52		
9399.81	V	-30.45		
11278.80	V	-29.73		
3760.30	H	-28.62	-13.00	Pass
5638.74	H	-30.06		
7519.86	H	-29.58		
9400.31	H	-30.00		
11278.81	H	-28.91		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3817.68	V	-32.58	-13.00	Pass
5726.22	V	-29.04		
7636.08	V	-28.32		
9545.88	V	-28.96		
11456.35	V	-30.10		
3816.80	H	-31.54	-13.00	Pass
5728.26	H	-29.37		
7637.16	H	-28.39		
9545.28	H	-31.30		
11455.97	H	-28.45		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3420.83	V	-30.98	-13.00	Pass
5133.12	V	-30.02		
6842.92	V	-26.62		
8554.88	V	-29.85		
10263.53	V	-28.65		
3419.70	H	-31.41	-13.00	Pass
5133.00	H	-26.51		
6840.66	H	-28.58		
8553.35	H	-29.44		
10264.38	H	-28.40		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3464.74	V	-27.80	-13.00	Pass
5195.36	V	-27.18		
6927.07	V	-28.13		
8662.22	V	-31.02		
10396.08	V	-26.50		
3463.28	H	-28.86	-13.00	Pass
5198.01	H	-32.15		
6929.88	H	-30.47		
8663.30	H	-27.60		
10394.47	H	-28.73		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3490.13	V	-27.33	-13.00	Pass
5235.06	V	-29.10		
6982.19	V	-31.28		
8723.98	V	-31.54		
10472.22	V	-29.14		
3490.00	H	-29.30	-13.00	Pass
5236.55	H	-32.23		
6979.34	H	-28.02		
8726.49	H	-27.59		
10471.77	H	-31.22		

Remark:

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.62	V	-33.19	-13.00	Pass
2477.28	V	-34.72		
3300.06	V	-30.77		
4127.47	V	-33.44		
4955.26	V	-29.49		
1651.54	H	-32.54	-13.00	Pass
2475.68	H	-30.43		
3303.20	H	-34.74		
4129.43	H	-33.44		
4953.24	H	-30.52		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.46	V	-30.59	-13.00	Pass
2510.37	V	-32.36		
3348.32	V	-28.95		
4184.75	V	-29.91		
5022.56	V	-35.66		
1672.94	H	-34.35	-13.00	Pass
2508.75	H	-31.61		
3348.23	H	-32.01		
4182.57	H	-30.75		
5023.55	H	-31.26		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.44	V	-31.33	-13.00	Pass
2545.35	V	-29.66		
3392.30	V	-30.85		
4238.66	V	-33.42		
5089.11	V	-29.19		
1697.57	H	-32.60	-13.00	Pass
2543.58	H	-34.17		
3394.74	H	-29.81		
4241.90	H	-34.12		
5089.41	H	-31.42		

Remark :

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- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5003.29	V	-32.32	-25.00	Pass
7508.08	V	-34.25		
10009.71	V	-34.27		
12511.29	V	-34.06		
15014.76	V	-34.52		
5004.23	H	-32.91	-25.00	Pass
7506.15	H	-31.19		
10009.18	H	-31.89		
12511.39	H	-29.66		
15016.64	H	-29.22		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5070.74	V	-32.57	-25.00	Pass
7604.64	V	-32.14		
10140.03	V	-29.82		
12672.55	V	-30.71		
15208.83	V	-30.42		
5068.93	H	-29.34	-25.00	Pass
7602.32	H	-30.26		
10141.03	H	-35.23		
12673.16	H	-33.56		
15210.10	H	-34.63		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.83	V	-31.54	-25.00	Pass
7703.00	V	-31.81		
10268.20	V	-33.85		
12836.92	V	-32.54		
15403.38	V	-33.45		
5133.29	H	-32.61	-25.00	Pass
7700.40	H	-30.84		
10271.58	H	-33.16		
12837.05	H	-31.90		
15403.45	H	-29.91		

Remark :

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- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1400.54	V	-32.73	-13.00	Pass
2097.84	V	-31.85		
2796.15	V	-32.23		
3498.77	V	-30.86		
4199.67	V	-31.05		
1398.51	H	-28.91	-13.00	Pass
2097.76	H	-30.56		
2798.79	H	-32.72		
3496.79	H	-32.69		
4196.87	H	-29.73		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1414.86	V	-31.95	-13.00	Pass
2122.18	V	-31.89		
2831.31	V	-30.92		
3537.51	V	-33.42		
4244.12	V	-32.84		
1414.38	H	-30.71	-13.00	Pass
2124.72	H	-30.76		
2831.47	H	-33.39		
3536.13	H	-31.49		
4242.57	H	-30.25		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1431.36	V	-32.36	-13.00	Pass
2145.34	V	-35.60		
2862.06	V	-33.37		
3576.98	V	-29.91		
4292.02	V	-30.01		
1430.46	H	-31.03	-13.00	Pass
2144.87	H	-32.59		
2860.84	H	-35.45		
3575.18	H	-31.51		
4291.64	H	-36.32		

Remark :

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- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1588.44	V	-44.90	-40.00	Pass
770.89	V	-39.45	-35.00	Pass
801.43	V	-40.02	-35.00	Pass
5005.08	V	-32.91	-13.00	Pass
7507.05	V	-31.80		
10007.55	V	-27.00		
12510.47	V	-31.14		
15012.25	V	-29.42		
1586.20	H	-45.83	-40.00	Pass
768.27	H	-38.70	-35.00	Pass
801.98	H	-38.52	-35.00	Pass
5004.08	H	-30.03	-13.00	Pass
7508.48	H	-29.05		
10011.55	H	-30.72		
12509.48	H	-28.22		
15012.93	H	-28.37		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1591.73	V	-41.73	-40.00	Pass
770.00	V	-38.76	-35.00	Pass
800.79	V	-38.78	-35.00	Pass
5070.67	V	-27.31	-13.00	Pass
7603.74	V	-29.19		
10139.24	V	-27.84		
12675.12	V	-27.71		
15208.59	V	-29.40		
1593.42	H	-43.35	-40.00	Pass
770.91	H	-38.54	-35.00	Pass
799.79	H	-39.59	-35.00	Pass
5067.97	H	-29.11	-13.00	Pass
7603.47	H	-26.75		
10140.07	H	-28.76		
12677.32	H	-26.36		
15209.60	H	-27.32		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1577.25	V	-44.42	-40.00	Pass
770.38	V	-36.84	-35.00	Pass
798.81	V	-38.58	-35.00	Pass
5134.82	V	-34.90	-13.00	Pass
7703.24	V	-29.97		
10268.10	V	-29.47		
12839.12	V	-30.92		
15403.65	V	-30.04		
1580.78	H	-46.90	-40.00	Pass
769.38	H	-41.06	-35.00	Pass
798.91	H	-39.58	-35.00	Pass
5135.99	H	-33.44	-13.00	Pass
7703.29	H	-32.26		
10268.02	H	-33.15		
12836.56	H	-29.80		
15405.89	H	-29.79		

Remark :

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- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

Test mode:	LTE Band 41 (5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4997.62	V	-37.75	-25.00	Pass
7494.78	V	-34.71		
9992.75	V	-36.07		
12491.95	V	-39.38		
14991.90	V	-32.79		
4997.33	H	-36.68	-25.00	Pass
7493.78	H	-37.14		
9992.84	H	-32.54		
12490.53	H	-34.84		
14989.65	H	-34.66		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5186.36	V	-32.11	-25.00	Pass
7778.56	V	-33.77		
10372.85	V	-36.58		
12966.38	V	-32.87		
15555.89	V	-34.26		
5186.04	H	-35.53	-25.00	Pass
7777.18	H	-35.61		
10369.43	H	-36.54		
12965.44	H	-35.53		
15556.49	H	-35.38		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5375.57	V	-36.55	-25.00	Pass
8063.91	V	-33.15		
10749.81	V	-37.08		
13436.19	V	-34.31		
16123.04	V	-36.87		
5374.86	H	-32.26	-25.00	Pass
8062.69	H	-38.33		
10750.60	H	-34.47		
13436.92	H	-34.32		
16124.24	H	-35.86		

Remark :

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- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

4.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27)
Test setup:	Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified

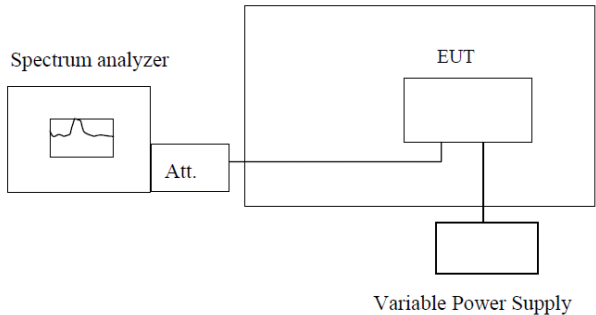
Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	15	0.0080	Within the authorized bands	Pass
	-10	-12	-0.0064		
	0	19	0.0101		
	10	8	0.0043		
	20	21	0.0112		
	30	6	0.0032		
	40	-1	-0.0005		
	50	0	0.0000		
	60	10	0.0053		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	21	0.0121	2.5	Pass
	-10	-4	-0.0024		
	0	23	0.0135		
	10	-13	-0.0072		
	20	19	0.0107		
	30	11	0.0064		
	40	18	0.0103		
	50	16	0.0094		
	60	10	0.0057		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	12	0.0149	2.5	Pass
	-10	-8	-0.0093		
	0	26	0.0314		
	10	1	0.0014		
	20	19	0.0230		
	30	16	0.0197		
	40	17	0.0209		
	50	15	0.0181		
	60	9	0.0109		

Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	12	0.0046	Within the authorized bands	Pass
	-10	-7	-0.0028		
	0	25	0.0099		
	10	-5	-0.0018		
	20	18	0.0073		
	30	18	0.0072		
	40	15	0.0057		
	50	12	0.0047		
	60	7	0.0029		
Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	20	0.0276	2.5	Pass
	-10	-16	-0.0227		
	0	29	0.0406		
	10	1	0.0017		
	20	20	0.0278		
	30	12	0.0176		
	40	22	0.0304		
	50	1	0.0020		
	60	12	0.0165		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	25	0.0315	Within the authorized bands	Pass
	-10	-6	-0.0071		
	0	20	0.0260		
	10	-8	-0.0107		
	20	12	0.0153		
	30	11	0.0139		
	40	13	0.0161		
	50	4	0.0054		
	60	18	0.0235		

Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	13	0.0052	Within the authorized bands	Pass
	-10	-18	-0.0071		
	0	21	0.0079		
	10	-10	-0.0039		
	20	22	0.0086		
	30	9	0.0033		
	40	14	0.0056		
	50	3	0.0011		
	60	13	0.0050		

4.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm Band II & Band VII should be within authorized band.
Test setup:	Temperature Chamber  Variable Power Supply Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	1. Manufacturer specified the battery operating end point voltage is 3.6VDC, max voltage is 4.2VDC. 2. If all frequencies stability are comply with the lower limit, then all results can be considered qualified

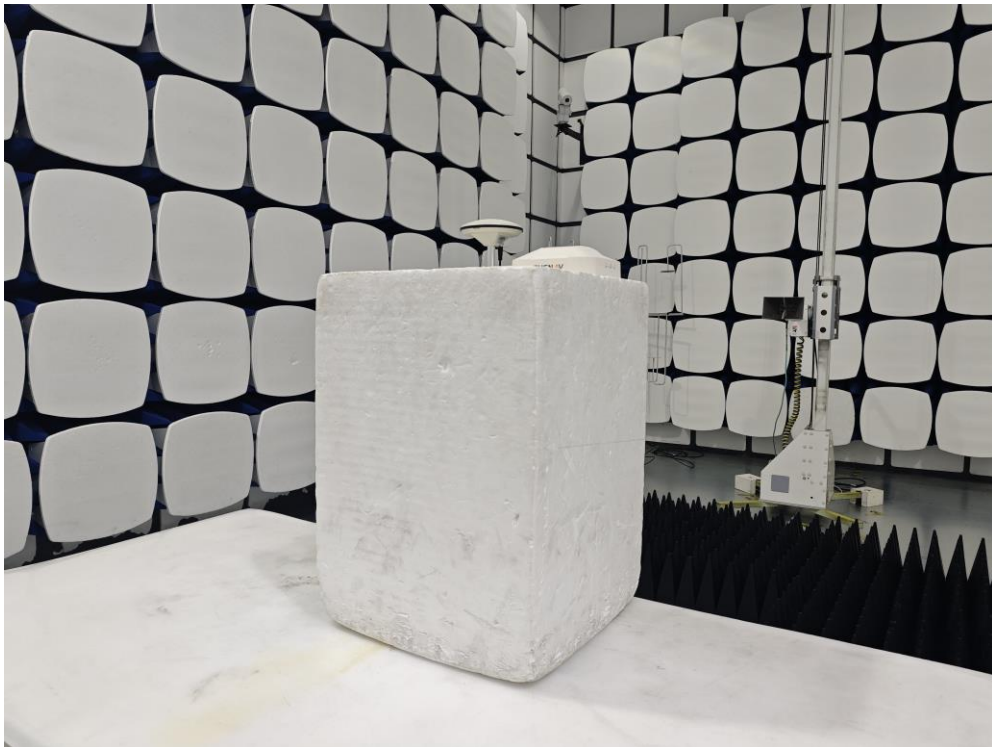
Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	20	0.0104	within authorized band	Pass
	24	-3	-0.0014		
	36	30	0.0159		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	27	0.0156	2.5	Pass
	24	-5	-0.0026		
	36	14	0.0084		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	19	0.0225	2.5	Pass
	24	-9	-0.0112		
	36	19	0.0224		
Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	24	0.0094	within authorized band	Pass
	24	-17	-0.0068		
	36	25	0.0100		

Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	23	0.0323	2.5	Pass
	24	-11	-0.0154		
	36	20	0.0280		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	28	0.0361	within authorized band	Pass
	24	-7	-0.0095		
	36	26	0.0335		
Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	10	0.0038	within authorized band	Pass
	24	-8	-0.0033		
	36	19	0.0073		

4.12 Test Setup Photo

Radiated Emission



-----END OF REPORT-----