

Transmitter Radiated Power (EIRP/ERP)

CAT M Mode Test Data

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 2										
1.4	LCH	QPSK	1	0	22.56	3.65	26.21	0.418	2.000	Pass
			6	0	20.75	3.65	24.40	0.275	2.000	Pass
		Q16	1	0	21.65	3.65	25.30	0.339	2.000	Pass
			5	0	20.72	3.65	24.37	0.274	2.000	Pass
	MCH	QPSK	1	0	22.42	3.65	26.07	0.405	2.000	Pass
			6	0	20.6	3.65	24.25	0.266	2.000	Pass
		Q16	1	0	21.41	3.65	25.06	0.321	2.000	Pass
			5	0	20.6	3.65	24.25	0.266	2.000	Pass
	HCH	QPSK	1	0	22.54	3.65	26.19	0.416	2.000	Pass
			6	0	20.93	3.65	24.58	0.287	2.000	Pass
		Q16	1	0	21.56	3.65	25.21	0.332	2.000	Pass
			5	0	20.75	3.65	24.40	0.275	2.000	Pass
3	LCH	QPSK	1	0	22.36	3.65	26.01	0.399	2.000	Pass
			6	0	20.45	3.65	24.10	0.257	2.000	Pass
		Q16	1	0	21.32	3.65	24.97	0.314	2.000	Pass
			5	0	20.46	3.65	24.11	0.258	2.000	Pass
	MCH	QPSK	1	0	22.65	3.65	26.30	0.427	2.000	Pass
			6	0	20.83	3.65	24.48	0.281	2.000	Pass
		Q16	1	0	21.6	3.65	25.25	0.335	2.000	Pass
			5	0	20.78	3.65	24.43	0.277	2.000	Pass
	HCH	QPSK	1	0	22.36	3.65	26.01	0.399	2.000	Pass
			6	0	20.55	3.65	24.20	0.263	2.000	Pass
		Q16	1	0	21.32	3.65	24.97	0.314	2.000	Pass
			5	0	20.49	3.65	24.14	0.259	2.000	Pass
5	LCH	QPSK	1	0	22.35	3.65	26.00	0.398	2.000	Pass
			6	0	21.38	3.65	25.03	0.318	2.000	Pass
		Q16	1	0	22.37	3.65	26.02	0.400	2.000	Pass
			5	0	20.51	3.65	24.16	0.261	2.000	Pass
	MCH	QPSK	1	0	22.34	3.65	25.99	0.397	2.000	Pass
			6	0	21.47	3.65	25.12	0.325	2.000	Pass
		Q16	1	0	22.49	3.65	26.14	0.411	2.000	Pass
			5	0	20.62	3.65	24.27	0.267	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 2										
	HCH	QPSK	1	0	22.32	3.65	25.97	0.395	2.000	Pass
			6	0	21.48	3.65	25.13	0.326	2.000	Pass
		Q16	1	0	22.41	3.65	26.06	0.404	2.000	Pass
			5	0	20.65	3.65	24.30	0.269	2.000	Pass
10	LCH	QPSK	1	0	22.36	3.65	26.01	0.399	2.000	Pass
			6	0	21.42	3.65	25.07	0.321	2.000	Pass
		Q16	1	0	22.31	3.65	25.96	0.394	2.000	Pass
			5	0	21.45	3.65	25.10	0.324	2.000	Pass
	MCH	QPSK	1	0	22.36	3.65	26.01	0.399	2.000	Pass
			6	0	21.49	3.65	25.14	0.327	2.000	Pass
		Q16	1	0	22.45	3.65	26.10	0.407	2.000	Pass
			5	0	21.46	3.65	25.11	0.324	2.000	Pass
	HCH	QPSK	1	0	22.33	3.65	25.98	0.396	2.000	Pass
			6	0	21.54	3.65	25.19	0.330	2.000	Pass
		Q16	1	0	22.43	3.65	26.08	0.406	2.000	Pass
			5	0	21.53	3.65	25.18	0.330	2.000	Pass
15	LCH	QPSK	1	0	22.4	3.65	26.05	0.403	2.000	Pass
			6	0	22.4	3.65	26.05	0.403	2.000	Pass
		Q16	1	0	22.37	3.65	26.02	0.400	2.000	Pass
			5	0	22.37	3.65	26.02	0.400	2.000	Pass
	MCH	QPSK	1	0	22.39	3.65	26.04	0.402	2.000	Pass
			6	0	22.41	3.65	26.06	0.404	2.000	Pass
		Q16	1	0	22.42	3.65	26.07	0.405	2.000	Pass
			5	0	22.42	3.65	26.07	0.405	2.000	Pass
	HCH	QPSK	1	0	22.32	3.65	25.97	0.395	2.000	Pass
			6	0	22.35	3.65	26.00	0.398	2.000	Pass
		Q16	1	0	22.39	3.65	26.04	0.402	2.000	Pass
			5	0	22.29	3.65	25.94	0.393	2.000	Pass
20	LCH	QPSK	1	0	22.37	3.65	26.02	0.400	2.000	Pass
			6	0	22.39	3.65	26.04	0.402	2.000	Pass
		Q16	1	0	22.34	3.65	25.99	0.397	2.000	Pass
			5	0	22.33	3.65	25.98	0.396	2.000	Pass
	MCH	QPSK	1	0	22.38	3.65	26.03	0.401	2.000	Pass
			6	0	22.41	3.65	26.06	0.404	2.000	Pass
		Q16	1	0	22.56	3.65	26.21	0.418	2.000	Pass
			5	0	22.46	3.65	26.11	0.408	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulati on	UL RB Numb er	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 2										
	HCH	QPSK	1	0	22.36	3.65	26.01	0.399	2.000	Pass
			6	0	22.38	3.65	26.03	0.401	2.000	Pass
		Q16	1	0	22.47	3.65	26.12	0.409	2.000	Pass
			5	0	22.36	3.65	26.01	0.399	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 4										
1.4	LCH	QPSK	1	0	22.81	3.83	26.64	0.461	1.000	Pass
			6	0	20.8	3.83	24.63	0.290	1.000	Pass
		Q16	1	0	21.66	3.83	25.49	0.354	1.000	Pass
			5	0	20.67	3.83	24.50	0.282	1.000	Pass
	MCH	QPSK	1	0	22.75	3.83	26.58	0.455	1.000	Pass
			6	0	20.68	3.83	24.51	0.282	1.000	Pass
		Q16	1	0	21.45	3.83	25.28	0.337	1.000	Pass
			5	0	20.6	3.83	24.43	0.277	1.000	Pass
	HCH	QPSK	1	0	22.73	3.83	26.56	0.453	1.000	Pass
			6	0	20.71	3.83	24.54	0.284	1.000	Pass
		Q16	1	0	21.67	3.83	25.50	0.355	1.000	Pass
			5	0	20.65	3.83	24.48	0.281	1.000	Pass
3	LCH	QPSK	1	0	22.83	3.83	26.66	0.463	1.000	Pass
			6	0	20.77	3.83	24.60	0.288	1.000	Pass
		Q16	1	0	21.57	3.83	25.40	0.347	1.000	Pass
			5	0	20.71	3.83	24.54	0.284	1.000	Pass
	MCH	QPSK	1	0	22.76	3.83	26.59	0.456	1.000	Pass
			6	0	20.76	3.83	24.59	0.288	1.000	Pass
		Q16	1	0	21.71	3.83	25.54	0.358	1.000	Pass
			5	0	20.69	3.83	24.52	0.283	1.000	Pass
	HCH	QPSK	1	0	22.99	3.83	26.82	0.481	1.000	Pass
			6	0	21	3.83	24.83	0.304	1.000	Pass
		Q16	1	0	21.76	3.83	25.59	0.362	1.000	Pass
			5	0	20.99	3.83	24.82	0.303	1.000	Pass
5	LCH	QPSK	1	0	23.05	3.83	26.88	0.488	1.000	Pass
			6	0	22.04	3.83	25.87	0.386	1.000	Pass
		Q16	1	0	23.22	3.83	27.05	0.507	1.000	Pass
			5	0	21.18	3.83	25.01	0.317	1.000	Pass
	MCH	QPSK	1	0	22.74	3.83	26.57	0.454	1.000	Pass
			6	0	21.72	3.83	25.55	0.359	1.000	Pass
		Q16	1	0	22.81	3.83	26.64	0.461	1.000	Pass
			5	0	20.79	3.83	24.62	0.290	1.000	Pass
	HCH	QPSK	1	0	22.69	3.83	26.52	0.449	1.000	Pass
			6	0	21.75	3.83	25.58	0.361	1.000	Pass
		Q16	1	0	22.67	3.83	26.50	0.447	1.000	Pass
			1	0	22.67	3.83	26.50	0.447	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 4										
10	LCH	QPSK	5	0	20.72	3.83	24.55	0.285	1.000	Pass
			1	0	22.8	3.83	26.63	0.460	1.000	Pass
		Q16	6	0	21.75	3.83	25.58	0.361	1.000	Pass
			1	0	22.67	3.83	26.50	0.447	1.000	Pass
	MCH	QPSK	5	0	21.8	3.83	25.63	0.366	1.000	Pass
			1	0	22.71	3.83	26.54	0.451	1.000	Pass
		Q16	6	0	21.7	3.83	25.53	0.357	1.000	Pass
			1	0	22.91	3.83	26.74	0.472	1.000	Pass
	HCH	QPSK	5	0	21.78	3.83	25.61	0.364	1.000	Pass
			1	0	22.7	3.83	26.53	0.450	1.000	Pass
		Q16	6	0	21.71	3.83	25.54	0.358	1.000	Pass
			1	0	22.89	3.83	26.72	0.470	1.000	Pass
15	LCH	QPSK	5	0	21.76	3.83	25.59	0.362	1.000	Pass
			1	0	22.81	3.83	26.64	0.461	1.000	Pass
		Q16	6	0	22.82	3.83	26.65	0.462	1.000	Pass
			1	0	22.78	3.83	26.61	0.458	1.000	Pass
	MCH	QPSK	5	0	22.82	3.83	26.65	0.462	1.000	Pass
			1	0	22.72	3.83	26.55	0.452	1.000	Pass
		Q16	6	0	22.74	3.83	26.57	0.454	1.000	Pass
			1	0	22.94	3.83	26.77	0.475	1.000	Pass
	HCH	QPSK	5	0	22.74	3.83	26.57	0.454	1.000	Pass
			1	0	22.72	3.83	26.55	0.452	1.000	Pass
		Q16	6	0	22.77	3.83	26.60	0.457	1.000	Pass
			1	0	22.89	3.83	26.72	0.470	1.000	Pass
20	LCH	QPSK	5	0	22.77	3.83	26.60	0.457	1.000	Pass
			1	0	22.8	3.83	26.63	0.460	1.000	Pass
		Q16	6	0	22.77	3.83	26.60	0.457	1.000	Pass
			1	0	22.73	3.83	26.56	0.453	1.000	Pass
	MCH	QPSK	5	0	22.85	3.83	26.68	0.466	1.000	Pass
			1	0	22.72	3.83	26.55	0.452	1.000	Pass
		Q16	6	0	22.72	3.83	26.55	0.452	1.000	Pass
			1	0	22.86	3.83	26.69	0.467	1.000	Pass
	HCH	QPSK	5	0	22.81	3.83	26.64	0.461	1.000	Pass
			1	0	22.69	3.83	26.52	0.449	1.000	Pass
		Q16	6	0	22.76	3.83	26.59	0.456	1.000	Pass
			1	0	22.88	3.83	26.71	0.469	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulati on	UL RB Numb er	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 4										
			5	0	22.78	3.83	26.61	0.458	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 5											
1.4	LCH	QPSK	1	0	22.93	3.53	1.38	24.31	0.270	7.000	Pass
			6	0	20.87	3.53	1.38	22.25	0.168	7.000	Pass
		Q16	1	0	21.72	3.53	1.38	23.10	0.204	7.000	Pass
			5	0	20.91	3.53	1.38	22.29	0.169	7.000	Pass
	MCH	QPSK	1	0	22.7	3.53	1.38	24.08	0.256	7.000	Pass
			6	0	20.81	3.53	1.38	22.19	0.166	7.000	Pass
		Q16	1	0	21.83	3.53	1.38	23.21	0.209	7.000	Pass
			5	0	20.64	3.53	1.38	22.02	0.159	7.000	Pass
	HCH	QPSK	1	0	22.93	3.53	1.38	24.31	0.270	7.000	Pass
			6	0	20.96	3.53	1.38	22.34	0.171	7.000	Pass
		Q16	1	0	21.87	3.53	1.38	23.25	0.211	7.000	Pass
			5	0	20.9	3.53	1.38	22.28	0.169	7.000	Pass
3	LCH	QPSK	1	0	22.88	3.53	1.38	24.26	0.267	7.000	Pass
			6	0	20.91	3.53	1.38	22.29	0.169	7.000	Pass
		Q16	1	0	21.82	3.53	1.38	23.20	0.209	7.000	Pass
			5	0	20.85	3.53	1.38	22.23	0.167	7.000	Pass
	MCH	QPSK	1	0	22.74	3.53	1.38	24.12	0.258	7.000	Pass
			6	0	20.66	3.53	1.38	22.04	0.160	7.000	Pass
		Q16	1	0	21.54	3.53	1.38	22.92	0.196	7.000	Pass
			5	0	20.68	3.53	1.38	22.06	0.161	7.000	Pass
	HCH	QPSK	1	0	22.91	3.53	1.38	24.29	0.269	7.000	Pass
			6	0	21.05	3.53	1.38	22.43	0.175	7.000	Pass
		Q16	1	0	21.79	3.53	1.38	23.17	0.207	7.000	Pass
			5	0	20.88	3.53	1.38	22.26	0.168	7.000	Pass
5	LCH	QPSK	1	0	23.1	3.53	1.38	24.48	0.281	7.000	Pass
			6	0	22.18	3.53	1.38	23.56	0.227	7.000	Pass
		Q16	1	0	23.25	3.53	1.38	24.63	0.290	7.000	Pass
			5	0	21.25	3.53	1.38	22.63	0.183	7.000	Pass
	MCH	QPSK	1	0	22.73	3.53	1.38	24.11	0.258	7.000	Pass
			6	0	21.71	3.53	1.38	23.09	0.204	7.000	Pass
		Q16	1	0	22.59	3.53	1.38	23.97	0.249	7.000	Pass
			5	0	20.72	3.53	1.38	22.10	0.162	7.000	Pass
	HCH	QPSK	1	0	22.9	3.53	1.38	24.28	0.268	7.000	Pass
			6	0	21.92	3.53	1.38	23.30	0.214	7.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 5											
10		Q16	1	0	22.87	3.53	1.38	24.25	0.266	7.000	Pass
			5	0	20.91	3.53	1.38	22.29	0.169	7.000	Pass
	LCH	QPSK	1	0	22.84	3.53	1.38	24.22	0.264	7.000	Pass
			6	0	21.86	3.53	1.38	23.24	0.211	7.000	Pass
		Q16	1	0	22.71	3.53	1.38	24.09	0.256	7.000	Pass
			5	0	21.93	3.53	1.38	23.31	0.214	7.000	Pass
	MCH	QPSK	1	0	22.63	3.53	1.38	24.01	0.252	7.000	Pass
			6	0	21.63	3.53	1.38	23.01	0.200	7.000	Pass
		Q16	1	0	22.79	3.53	1.38	24.17	0.261	7.000	Pass
			5	0	21.77	3.53	1.38	23.15	0.207	7.000	Pass
	HCH	QPSK	1	0	22.79	3.53	1.38	24.17	0.261	7.000	Pass
			6	0	21.82	3.53	1.38	23.20	0.209	7.000	Pass
		Q16	1	0	22.84	3.53	1.38	24.22	0.264	7.000	Pass
			5	0	21.92	3.53	1.38	23.30	0.214	7.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 12											
1.4	LCH	QPSK	1	0	22.54	3.19	1.04	23.58	0.228	3.000	Pass
			6	0	20.53	3.19	1.04	21.57	0.144	3.000	Pass
		Q16	1	0	21.31	3.19	1.04	22.35	0.172	3.000	Pass
			5	0	20.49	3.19	1.04	21.53	0.142	3.000	Pass
	MCH	QPSK	1	0	22.52	3.19	1.04	23.56	0.227	3.000	Pass
			6	0	20.49	3.19	1.04	21.53	0.142	3.000	Pass
		Q16	1	0	21.38	3.19	1.04	22.42	0.175	3.000	Pass
			5	0	20.44	3.19	1.04	21.48	0.141	3.000	Pass
	HCH	QPSK	1	0	22.63	3.19	1.04	23.67	0.233	3.000	Pass
			6	0	20.66	3.19	1.04	21.70	0.148	3.000	Pass
		Q16	1	0	21.66	3.19	1.04	22.70	0.186	3.000	Pass
			5	0	20.52	3.19	1.04	21.56	0.143	3.000	Pass
3	LCH	QPSK	1	0	22.38	3.19	1.04	23.42	0.220	3.000	Pass
			6	0	20.36	3.19	1.04	21.40	0.138	3.000	Pass
		Q16	1	0	21.25	3.19	1.04	22.29	0.169	3.000	Pass
			5	0	20.27	3.19	1.04	21.31	0.135	3.000	Pass
	MCH	QPSK	1	0	22.47	3.19	1.04	23.51	0.224	3.000	Pass
			6	0	20.53	3.19	1.04	21.57	0.144	3.000	Pass
		Q16	1	0	21.41	3.19	1.04	22.45	0.176	3.000	Pass
			5	0	20.43	3.19	1.04	21.47	0.140	3.000	Pass
	HCH	QPSK	1	0	22.59	3.19	1.04	23.63	0.231	3.000	Pass
			6	0	20.59	3.19	1.04	21.63	0.146	3.000	Pass
		Q16	1	0	21.78	3.19	1.04	22.82	0.191	3.000	Pass
			5	0	20.81	3.19	1.04	21.85	0.153	3.000	Pass
5	LCH	QPSK	1	0	22.55	3.19	1.04	23.59	0.229	3.000	Pass
			6	0	21.62	3.19	1.04	22.66	0.185	3.000	Pass
		Q16	1	0	22.78	3.19	1.04	23.82	0.241	3.000	Pass
			5	0	20.75	3.19	1.04	21.79	0.151	3.000	Pass
	MCH	QPSK	1	0	22.42	3.19	1.04	23.46	0.222	3.000	Pass
			6	0	21.45	3.19	1.04	22.49	0.177	3.000	Pass
		Q16	1	0	22.59	3.19	1.04	23.63	0.231	3.000	Pass
			5	0	20.57	3.19	1.04	21.61	0.145	3.000	Pass
	HCH	QPSK	1	0	22.48	3.19	1.04	23.52	0.225	3.000	Pass
			6	0	21.52	3.19	1.04	22.56	0.180	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 12											
10		Q16	1	0	22.48	3.19	1.04	23.52	0.225	3.000	Pass
			5	0	20.64	3.19	1.04	21.68	0.147	3.000	Pass
	LCH	QPSK	1	0	22.24	3.19	1.04	23.28	0.213	3.000	Pass
			6	0	21.32	3.19	1.04	22.36	0.172	3.000	Pass
		Q16	1	0	22.19	3.19	1.04	23.23	0.210	3.000	Pass
			5	0	21.36	3.19	1.04	22.40	0.174	3.000	Pass
	MCH	QPSK	1	0	22.35	3.19	1.04	23.39	0.218	3.000	Pass
			6	0	21.38	3.19	1.04	22.42	0.175	3.000	Pass
		Q16	1	0	22.41	3.19	1.04	23.45	0.221	3.000	Pass
			5	0	21.39	3.19	1.04	22.43	0.175	3.000	Pass
	HCH	QPSK	1	0	22.33	3.19	1.04	23.37	0.217	3.000	Pass
			6	0	21.37	3.19	1.04	22.41	0.174	3.000	Pass
		Q16	1	0	22.34	3.19	1.04	23.38	0.218	3.000	Pass
			5	0	21.44	3.19	1.04	22.48	0.177	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 13											
5	LCH	QPSK	1	0	22.78	1.92	-0.23	22.55	0.180	3.000	Pass
			6	0	21.83	1.92	-0.23	21.60	0.145	3.000	Pass
		Q16	1	0	22.74	1.92	-0.23	22.51	0.178	3.000	Pass
			5	0	20.89	1.92	-0.23	20.66	0.116	3.000	Pass
	MCH	QPSK	1	0	22.83	1.92	-0.23	22.60	0.182	3.000	Pass
			6	0	21.89	1.92	-0.23	21.66	0.147	3.000	Pass
		Q16	1	0	22.98	1.92	-0.23	22.75	0.188	3.000	Pass
			5	0	20.95	1.92	-0.23	20.72	0.118	3.000	Pass
	HCH	QPSK	1	0	22.9	1.92	-0.23	22.67	0.185	3.000	Pass
			6	0	21.95	1.92	-0.23	21.72	0.149	3.000	Pass
		Q16	1	0	22.86	1.92	-0.23	22.63	0.183	3.000	Pass
			5	0	21.02	1.92	-0.23	20.79	0.120	3.000	Pass
10	MCH	QPSK	1	0	22.81	1.92	-0.23	22.58	0.181	3.000	Pass
			6	0	21.85	1.92	-0.23	21.62	0.145	3.000	Pass
		Q16	1	0	22.66	1.92	-0.23	22.43	0.175	3.000	Pass
			5	0	21.87	1.92	-0.23	21.64	0.146	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 14											
5	LCH	QPSK	1	0	22.92	2.16	0.01	22.93	0.196	3.000	Pass
			6	0	21.93	2.16	0.01	21.94	0.156	3.000	Pass
		Q16	1	0	22.93	2.16	0.01	22.94	0.197	3.000	Pass
			5	0	20.91	2.16	0.01	20.92	0.124	3.000	Pass
	MCH	QPSK	1	0	22.92	2.16	0.01	22.93	0.196	3.000	Pass
			6	0	22	2.16	0.01	22.01	0.159	3.000	Pass
		Q16	1	0	23.14	2.16	0.01	23.15	0.207	3.000	Pass
			5	0	21.13	2.16	0.01	21.14	0.130	3.000	Pass
	HCH	QPSK	1	0	23	2.16	0.01	23.01	0.200	3.000	Pass
			6	0	22.13	2.16	0.01	22.14	0.164	3.000	Pass
		Q16	1	0	23.18	2.16	0.01	23.19	0.208	3.000	Pass
			5	0	21.24	2.16	0.01	21.25	0.133	3.000	Pass
10	MCH	QPSK	1	0	22.91	2.16	0.01	22.92	0.196	3.000	Pass
			6	0	21.92	2.16	0.01	21.93	0.156	3.000	Pass
		Q16	1	0	22.94	2.16	0.01	22.95	0.197	3.000	Pass
			5	0	21.96	2.16	0.01	21.97	0.157	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 18 (part 22)											
5	LCH	QPSK	1	0	22.92	3.53	1.38	24.30	0.269	3.000	Pass
			6	0	21.91	3.53	1.38	23.29	0.213	3.000	Pass
		Q16	1	0	22.8	3.53	1.38	24.18	0.262	3.000	Pass
			5	0	20.95	3.53	1.38	22.33	0.171	3.000	Pass
	MCH	QPSK	1	0	22.88	3.53	1.38	24.26	0.267	3.000	Pass
			6	0	21.94	3.53	1.38	23.32	0.215	3.000	Pass
		Q16	1	0	22.94	3.53	1.38	24.32	0.270	3.000	Pass
			5	0	21.06	3.53	1.38	22.44	0.175	3.000	Pass
	HCH	QPSK	1	0	22.88	3.53	1.38	24.26	0.267	3.000	Pass
			6	0	21.95	3.53	1.38	23.33	0.215	3.000	Pass
		Q16	1	0	22.98	3.53	1.38	24.36	0.273	3.000	Pass
			5	0	21.11	3.53	1.38	22.49	0.177	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 18 (part 90)											
5	LCH	QPSK	1	0	22.62	3.07	0.92	23.54	0.226	3.000	Pass
			6	0	21.65	3.07	0.92	22.57	0.181	3.000	Pass
		Q16	1	0	22.63	3.07	0.92	23.55	0.226	3.000	Pass
			5	0	20.79	3.07	0.92	21.71	0.148	3.000	Pass
	MCH	QPSK	1	0	22.68	3.07	0.92	23.60	0.229	3.000	Pass
			6	0	21.76	3.07	0.92	22.68	0.185	3.000	Pass
		Q16	1	0	22.69	3.07	0.92	23.61	0.230	3.000	Pass
			5	0	20.85	3.07	0.92	21.77	0.150	3.000	Pass
	HCH	QPSK	1	0	22.75	3.07	0.92	23.67	0.233	3.000	Pass
			6	0	21.82	3.07	0.92	22.74	0.188	3.000	Pass
		Q16	1	0	22.63	3.07	0.92	23.55	0.226	3.000	Pass
			5	0	20.91	3.07	0.92	21.83	0.152	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 25										
1.4	LCH	QPSK	1	0	22.64	3.65	26.29	0.426	2.000	Pass
			6	0	20.74	3.65	24.39	0.275	2.000	Pass
		Q16	1	0	21.55	3.65	25.20	0.331	2.000	Pass
			5	0	20.58	3.65	24.23	0.265	2.000	Pass
	MCH	QPSK	1	0	22.33	3.65	25.98	0.396	2.000	Pass
			6	0	20.48	3.65	24.13	0.259	2.000	Pass
		Q16	1	0	21.27	3.65	24.92	0.310	2.000	Pass
			5	0	20.36	3.65	24.01	0.252	2.000	Pass
	HCH	QPSK	1	0	22.34	3.65	25.99	0.397	2.000	Pass
			6	0	20.58	3.65	24.23	0.265	2.000	Pass
		Q16	1	0	21.25	3.65	24.90	0.309	2.000	Pass
			5	0	20.43	3.65	24.08	0.256	2.000	Pass
3	LCH	QPSK	1	0	22.34	3.65	25.99	0.397	2.000	Pass
			6	0	20.46	3.65	24.11	0.258	2.000	Pass
		Q16	1	0	21.25	3.65	24.90	0.309	2.000	Pass
			5	0	20.42	3.65	24.07	0.255	2.000	Pass
	MCH	QPSK	1	0	22.64	3.65	26.29	0.426	2.000	Pass
			6	0	20.87	3.65	24.52	0.283	2.000	Pass
		Q16	1	0	21.2	3.65	24.85	0.305	2.000	Pass
			5	0	20.41	3.65	24.06	0.255	2.000	Pass
	HCH	QPSK	1	0	22.38	3.65	26.03	0.401	2.000	Pass
			6	0	20.56	3.65	24.21	0.264	2.000	Pass
		Q16	1	0	21.37	3.65	25.02	0.318	2.000	Pass
			5	0	20.52	3.65	24.17	0.261	2.000	Pass
5	LCH	QPSK	1	0	22.33	3.65	25.98	0.396	2.000	Pass
			6	0	21.44	3.65	25.09	0.323	2.000	Pass
		Q16	1	0	22.28	3.65	25.93	0.392	2.000	Pass
			5	0	20.57	3.65	24.22	0.264	2.000	Pass
	MCH	QPSK	1	0	22.33	3.65	25.98	0.396	2.000	Pass
			6	0	21.45	3.65	25.10	0.324	2.000	Pass
		Q16	1	0	22.4	3.65	26.05	0.403	2.000	Pass
			5	0	20.54	3.65	24.19	0.262	2.000	Pass
	HCH	QPSK	1	0	22.33	3.65	25.98	0.396	2.000	Pass
			6	0	21.52	3.65	25.17	0.329	2.000	Pass
		Q16	1	0	22.17	3.65	25.82	0.382	2.000	Pass
			1	0	22.17	3.65	25.82	0.382	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 25										
10	LCH	QPSK	5	0	20.58	3.65	24.23	0.265	2.000	Pass
			1	0	22.38	3.65	26.03	0.401	2.000	Pass
		Q16	6	0	21.41	3.65	25.06	0.321	2.000	Pass
			1	0	22.28	3.65	25.93	0.392	2.000	Pass
	MCH	QPSK	5	0	21.44	3.65	25.09	0.323	2.000	Pass
			1	0	22.32	3.65	25.97	0.395	2.000	Pass
		Q16	6	0	21.45	3.65	25.10	0.324	2.000	Pass
			1	0	22.38	3.65	26.03	0.401	2.000	Pass
		QPSK	5	0	21.42	3.65	25.07	0.321	2.000	Pass
			1	0	22.32	3.65	25.97	0.395	2.000	Pass
		Q16	6	0	21.52	3.65	25.17	0.329	2.000	Pass
			1	0	22.32	3.65	25.97	0.395	2.000	Pass
15	LCH	QPSK	5	0	21.57	3.65	25.22	0.333	2.000	Pass
			1	0	22.41	3.65	26.06	0.404	2.000	Pass
		Q16	6	0	22.38	3.65	26.03	0.401	2.000	Pass
			1	0	22.44	3.65	26.09	0.406	2.000	Pass
	MCH	QPSK	5	0	22.34	3.65	25.99	0.397	2.000	Pass
			1	0	22.36	3.65	26.01	0.399	2.000	Pass
		Q16	6	0	22.43	3.65	26.08	0.406	2.000	Pass
			1	0	22.42	3.65	26.07	0.405	2.000	Pass
		QPSK	5	0	22.4	3.65	26.05	0.403	2.000	Pass
			1	0	22.36	3.65	26.01	0.399	2.000	Pass
		Q16	6	0	22.43	3.65	26.08	0.406	2.000	Pass
			1	0	22.49	3.65	26.14	0.411	2.000	Pass
20	LCH	QPSK	5	0	22.37	3.65	26.02	0.400	2.000	Pass
			1	0	22.38	3.65	26.03	0.401	2.000	Pass
		Q16	6	0	22.38	3.65	26.03	0.401	2.000	Pass
			1	0	22.45	3.65	26.10	0.407	2.000	Pass
	MCH	QPSK	5	0	22.42	3.65	26.07	0.405	2.000	Pass
			1	0	22.39	3.65	26.04	0.402	2.000	Pass
		Q16	6	0	22.42	3.65	26.07	0.405	2.000	Pass
			1	0	22.56	3.65	26.21	0.418	2.000	Pass
		QPSK	5	0	22.41	3.65	26.06	0.404	2.000	Pass
			1	0	22.69	3.65	26.34	0.431	2.000	Pass
	HCH	QPSK	6	0	22.66	3.65	26.31	0.428	2.000	Pass
			1	0	22.63	3.65	26.28	0.425	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulati on	UL RB Numb er	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 25										
			5	0	22.61	3.65	26.26	0.423	2.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 26(Part 22)											
1.4	LCH	QPSK	1	0	22.93	3.53	1.38	24.31	0.270	7.000	Pass
			6	0	20.9	3.53	1.38	22.28	0.169	7.000	Pass
		Q16	1	0	21.82	3.53	1.38	23.20	0.209	7.000	Pass
			5	0	20.85	3.53	1.38	22.23	0.167	7.000	Pass
	MCH	QPSK	1	0	22.75	3.53	1.38	24.13	0.259	7.000	Pass
			6	0	20.78	3.53	1.38	22.16	0.164	7.000	Pass
		Q16	1	0	21.73	3.53	1.38	23.11	0.205	7.000	Pass
			5	0	20.73	3.53	1.38	22.11	0.163	7.000	Pass
	HCH	QPSK	1	0	22.96	3.53	1.38	24.34	0.272	7.000	Pass
			6	0	20.98	3.53	1.38	22.36	0.172	7.000	Pass
		Q16	1	0	21.79	3.53	1.38	23.17	0.207	7.000	Pass
			5	0	20.96	3.53	1.38	22.34	0.171	7.000	Pass
3	LCH	QPSK	1	0	22.92	3.53	1.38	24.30	0.269	7.000	Pass
			6	0	20.91	3.53	1.38	22.29	0.169	7.000	Pass
		Q16	1	0	21.8	3.53	1.38	23.18	0.208	7.000	Pass
			5	0	20.91	3.53	1.38	22.29	0.169	7.000	Pass
	MCH	QPSK	1	0	22.74	3.53	1.38	24.12	0.258	7.000	Pass
			6	0	20.78	3.53	1.38	22.16	0.164	7.000	Pass
		Q16	1	0	21.59	3.53	1.38	22.97	0.198	7.000	Pass
			5	0	20.77	3.53	1.38	22.15	0.164	7.000	Pass
	HCH	QPSK	1	0	22.93	3.53	1.38	24.31	0.270	7.000	Pass
			6	0	20.97	3.53	1.38	22.35	0.172	7.000	Pass
		Q16	1	0	21.92	3.53	1.38	23.30	0.214	7.000	Pass
			5	0	20.99	3.53	1.38	22.37	0.173	7.000	Pass
5	LCH	QPSK	1	0	23.13	3.53	1.38	24.51	0.282	7.000	Pass
			6	0	22.22	3.53	1.38	23.60	0.229	7.000	Pass
		Q16	1	0	23.26	3.53	1.38	24.64	0.291	7.000	Pass
			5	0	21.3	3.53	1.38	22.68	0.185	7.000	Pass
	MCH	QPSK	1	0	23	3.53	1.38	24.38	0.274	7.000	Pass
			6	0	22.06	3.53	1.38	23.44	0.221	7.000	Pass
		Q16	1	0	22.93	3.53	1.38	24.31	0.270	7.000	Pass
			5	0	21.05	3.53	1.38	22.43	0.175	7.000	Pass
	HCH	QPSK	1	0	23.2	3.53	1.38	24.58	0.287	7.000	Pass
			6	0	22.26	3.53	1.38	23.64	0.231	7.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 26(Part 22)											
10	LCH	QPSK	1	0	23.14	3.53	1.38	24.52	0.283	7.000	Pass
			5	0	21.33	3.53	1.38	22.71	0.187	7.000	Pass
		Q16	1	0	23.03	3.53	1.38	24.41	0.276	7.000	Pass
			5	0	22.22	3.53	1.38	23.60	0.229	7.000	Pass
	MCH	QPSK	1	0	22.64	3.53	1.38	24.02	0.252	7.000	Pass
			6	0	21.7	3.53	1.38	23.08	0.203	7.000	Pass
		Q16	1	0	22.84	3.53	1.38	24.22	0.264	7.000	Pass
			5	0	21.75	3.53	1.38	23.13	0.206	7.000	Pass
	HCH	QPSK	1	0	22.81	3.53	1.38	24.19	0.262	7.000	Pass
			6	0	21.85	3.53	1.38	23.23	0.210	7.000	Pass
		Q16	1	0	22.83	3.53	1.38	24.21	0.264	7.000	Pass
			5	0	21.95	3.53	1.38	23.33	0.215	7.000	Pass
15	LCH	QPSK	1	0	22.5	3.53	1.38	23.88	0.244	7.000	Pass
			6	0	22.48	3.53	1.38	23.86	0.243	7.000	Pass
		Q16	1	0	22.48	3.53	1.38	23.86	0.243	7.000	Pass
			5	0	22.47	3.53	1.38	23.85	0.243	7.000	Pass
	MCH	QPSK	1	0	22.6	3.53	1.38	23.98	0.250	7.000	Pass
			6	0	22.6	3.53	1.38	23.98	0.250	7.000	Pass
		Q16	1	0	22.75	3.53	1.38	24.13	0.259	7.000	Pass
			5	0	22.65	3.53	1.38	24.03	0.253	7.000	Pass
	HCH	QPSK	1	0	22.7	3.53	1.38	24.08	0.256	7.000	Pass
			6	0	22.71	3.53	1.38	24.09	0.256	7.000	Pass
		Q16	1	0	22.89	3.53	1.38	24.27	0.267	7.000	Pass
			5	0	22.69	3.53	1.38	24.07	0.255	7.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 26(Part 90)											
1.4	LCH	QPSK	1	0	22.98	3.07	0.92	23.90	0.245	100.00	Pass
			6	0	21.06	3.07	0.92	21.98	0.158	100.00	Pass
		Q16	1	0	21.73	3.07	0.92	22.65	0.184	100.00	Pass
			5	0	21.06	3.07	0.92	21.98	0.158	100.00	Pass
	MCH	QPSK	1	0	22.77	3.07	0.92	23.69	0.234	100.00	Pass
			6	0	20.83	3.07	0.92	21.75	0.150	100.00	Pass
		Q16	1	0	21.76	3.07	0.92	22.68	0.185	100.00	Pass
			5	0	20.76	3.07	0.92	21.68	0.147	100.00	Pass
	HCH	QPSK	1	0	22.88	3.07	0.92	23.80	0.240	100.00	Pass
			6	0	20.8	3.07	0.92	21.72	0.149	100.00	Pass
		Q16	1	0	21.65	3.07	0.92	22.57	0.181	100.00	Pass
			5	0	20.81	3.07	0.92	21.73	0.149	100.00	Pass
3	LCH	QPSK	1	0	22.68	3.07	0.92	23.60	0.229	100.00	Pass
			6	0	20.56	3.07	0.92	21.48	0.141	100.00	Pass
		Q16	1	0	21.71	3.07	0.92	22.63	0.183	100.00	Pass
			5	0	20.62	3.07	0.92	21.54	0.143	100.00	Pass
	MCH	QPSK	1	0	22.77	3.07	0.92	23.69	0.234	100.00	Pass
			6	0	20.82	3.07	0.92	21.74	0.149	100.00	Pass
		Q16	1	0	21.59	3.07	0.92	22.51	0.178	100.00	Pass
			5	0	20.59	3.07	0.92	21.51	0.142	100.00	Pass
	HCH	QPSK	1	0	22.79	3.07	0.92	23.71	0.235	100.00	Pass
			6	0	20.87	3.07	0.92	21.79	0.151	100.00	Pass
		Q16	1	0	21.62	3.07	0.92	22.54	0.179	100.00	Pass
			5	0	20.84	3.07	0.92	21.76	0.150	100.00	Pass
5	LCH	QPSK	1	0	22.88	3.07	0.92	23.80	0.240	100.00	Pass
			6	0	21.87	3.07	0.92	22.79	0.190	100.00	Pass
		Q16	1	0	22.74	3.07	0.92	23.66	0.232	100.00	Pass
			5	0	20.93	3.07	0.92	21.85	0.153	100.00	Pass
	MCH	QPSK	1	0	22.67	3.07	0.92	23.59	0.229	100.00	Pass
			6	0	21.73	3.07	0.92	22.65	0.184	100.00	Pass
		Q16	1	0	22.73	3.07	0.92	23.65	0.232	100.00	Pass
			5	0	20.84	3.07	0.92	21.76	0.150	100.00	Pass
	HCH	QPSK	1	0	22.79	3.07	0.92	23.71	0.235	100.00	Pass
			6	0	21.81	3.07	0.92	22.73	0.187	100.00	Pass

Bandwidth (MHz)	UL Channel	UL Modulati on	UL RB Numb er	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	Anten na Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 26(Part 90)											
10	MCH	Q16	1	0	22.7	3.07	0.92	23.62	0.230	100.00	Pass
			5	0	20.91	3.07	0.92	21.83	0.152	100.00	Pass
		QPSK	1	0	22.62	3.07	0.92	23.54	0.226	100.00	Pass
			6	0	21.63	3.07	0.92	22.55	0.180	100.00	Pass
		Q16	1	0	22.45	3.07	0.92	23.37	0.217	100.00	Pass
			5	0	21.65	3.07	0.92	22.57	0.181	100.00	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 66										
1.4	LCH	QPSK	1	0	22.83	3.6	26.43	0.440	1.000	Pass
			6	0	20.77	3.6	24.37	0.274	1.000	Pass
		Q16	1	0	21.65	3.6	25.25	0.335	1.000	Pass
			5	0	20.74	3.6	24.34	0.272	1.000	Pass
	MCH	QPSK	1	0	22.8	3.6	26.40	0.437	1.000	Pass
			6	0	20.74	3.6	24.34	0.272	1.000	Pass
		Q16	1	0	21.66	3.6	25.26	0.336	1.000	Pass
			5	0	20.59	3.6	24.19	0.262	1.000	Pass
	HCH	QPSK	1	0	22.63	3.6	26.23	0.420	1.000	Pass
			6	0	20.58	3.6	24.18	0.262	1.000	Pass
		Q16	1	0	21.5	3.6	25.10	0.324	1.000	Pass
			5	0	20.48	3.6	24.08	0.256	1.000	Pass
3	LCH	QPSK	1	0	22.86	3.6	26.46	0.443	1.000	Pass
			6	0	20.9	3.6	24.50	0.282	1.000	Pass
		Q16	1	0	21.67	3.6	25.27	0.337	1.000	Pass
			5	0	20.84	3.6	24.44	0.278	1.000	Pass
	MCH	QPSK	1	0	22.88	3.6	26.48	0.445	1.000	Pass
			6	0	20.85	3.6	24.45	0.279	1.000	Pass
		Q16	1	0	21.74	3.6	25.34	0.342	1.000	Pass
			5	0	20.81	3.6	24.41	0.276	1.000	Pass
	HCH	QPSK	1	0	22.72	3.6	26.32	0.429	1.000	Pass
			6	0	20.71	3.6	24.31	0.270	1.000	Pass
		Q16	1	0	21.47	3.6	25.07	0.321	1.000	Pass
			5	0	20.64	3.6	24.24	0.265	1.000	Pass
5	LCH	QPSK	1	0	23.04	3.6	26.64	0.461	1.000	Pass
			6	0	22.05	3.6	25.65	0.367	1.000	Pass
		Q16	1	0	23.25	3.6	26.85	0.484	1.000	Pass
			5	0	21.17	3.6	24.77	0.300	1.000	Pass
	MCH	QPSK	1	0	22.74	3.6	26.34	0.431	1.000	Pass
			6	0	21.74	3.6	25.34	0.342	1.000	Pass
		Q16	1	0	22.91	3.6	26.51	0.448	1.000	Pass
			5	0	20.88	3.6	24.48	0.281	1.000	Pass
	HCH	QPSK	1	0	22.6	3.6	26.20	0.417	1.000	Pass
			6	0	21.67	3.6	25.27	0.337	1.000	Pass
		Q16	1	0	22.77	3.6	26.37	0.434	1.000	Pass
			1	0	22.77	3.6	26.37	0.434	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 66										
10	LCH	QPSK	5	0	20.69	3.6	24.29	0.269	1.000	Pass
			1	0	22.75	3.6	26.35	0.432	1.000	Pass
		Q16	6	0	21.76	3.6	25.36	0.344	1.000	Pass
			1	0	23.01	3.6	26.61	0.458	1.000	Pass
	MCH	QPSK	5	0	21.86	3.6	25.46	0.352	1.000	Pass
			1	0	22.73	3.6	26.33	0.430	1.000	Pass
		Q16	6	0	21.72	3.6	25.32	0.340	1.000	Pass
			1	0	22.94	3.6	26.54	0.451	1.000	Pass
	HCH	QPSK	5	0	21.8	3.6	25.40	0.347	1.000	Pass
			1	0	22.59	3.6	26.19	0.416	1.000	Pass
		Q16	6	0	21.66	3.6	25.26	0.336	1.000	Pass
			1	0	22.61	3.6	26.21	0.418	1.000	Pass
15	LCH	QPSK	5	0	21.75	3.6	25.35	0.343	1.000	Pass
			1	0	22.77	3.6	26.37	0.434	1.000	Pass
		Q16	6	0	22.85	3.6	26.45	0.442	1.000	Pass
			1	0	22.89	3.6	26.49	0.446	1.000	Pass
	MCH	QPSK	5	0	22.87	3.6	26.47	0.444	1.000	Pass
			1	0	22.76	3.6	26.36	0.433	1.000	Pass
		Q16	6	0	22.77	3.6	26.37	0.434	1.000	Pass
			1	0	22.92	3.6	26.52	0.449	1.000	Pass
	HCH	QPSK	5	0	22.81	3.6	26.41	0.438	1.000	Pass
			1	0	22.58	3.6	26.18	0.415	1.000	Pass
		Q16	6	0	22.62	3.6	26.22	0.419	1.000	Pass
			1	0	22.77	3.6	26.37	0.434	1.000	Pass
20	LCH	QPSK	5	0	22.68	3.6	26.28	0.425	1.000	Pass
			1	0	23.03	3.6	26.63	0.460	1.000	Pass
		Q16	6	0	23.05	3.6	26.65	0.462	1.000	Pass
			1	0	23.28	3.6	26.88	0.488	1.000	Pass
	MCH	QPSK	5	0	23.07	3.6	26.67	0.465	1.000	Pass
			1	0	22.76	3.6	26.36	0.433	1.000	Pass
		Q16	6	0	22.74	3.6	26.34	0.431	1.000	Pass
			1	0	22.93	3.6	26.53	0.450	1.000	Pass
	HCH	QPSK	5	0	22.8	3.6	26.40	0.437	1.000	Pass
			1	0	22.57	3.6	26.17	0.414	1.000	Pass
		Q16	6	0	22.58	3.6	26.18	0.415	1.000	Pass
			1	0	22.77	3.6	26.37	0.434	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulati on	UL RB Numb er	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
CAT M BAND 66										
			5	0	22.67	3.6	26.27	0.424	1.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 71											
5	LCH	QPSK	1	0	22.47	3.09	0.94	23.41	0.219	3.000	Pass
			6	0	21.5	3.09	0.94	22.44	0.175	3.000	Pass
		Q16	1	0	22.37	3.09	0.94	23.31	0.214	3.000	Pass
			5	0	20.6	3.09	0.94	21.54	0.143	3.000	Pass
	MCH	QPSK	1	0	21.52	3.09	0.94	22.46	0.176	3.000	Pass
			6	0	20.99	3.09	0.94	21.93	0.156	3.000	Pass
		Q16	1	0	21.52	3.09	0.94	22.46	0.176	3.000	Pass
			5	0	20.12	3.09	0.94	21.06	0.128	3.000	Pass
	HCH	QPSK	1	0	21.44	3.09	0.94	22.38	0.173	3.000	Pass
			6	0	21.01	3.09	0.94	21.95	0.157	3.000	Pass
		Q16	1	0	21.64	3.09	0.94	22.58	0.181	3.000	Pass
			5	0	20.14	3.09	0.94	21.08	0.128	3.000	Pass
10	LCH	QPSK	1	0	22.64	3.09	0.94	23.58	0.228	3.000	Pass
			6	0	21.68	3.09	0.94	22.62	0.183	3.000	Pass
		Q16	1	0	22.61	3.09	0.94	23.55	0.226	3.000	Pass
			5	0	21.56	3.09	0.94	22.50	0.178	3.000	Pass
	MCH	QPSK	1	0	22.32	3.09	0.94	23.26	0.212	3.000	Pass
			6	0	21.42	3.09	0.94	22.36	0.172	3.000	Pass
		Q16	1	0	22.46	3.09	0.94	23.40	0.219	3.000	Pass
			5	0	21.51	3.09	0.94	22.45	0.176	3.000	Pass
	HCH	QPSK	1	0	22.26	3.09	0.94	23.20	0.209	3.000	Pass
			6	0	21.36	3.09	0.94	22.30	0.170	3.000	Pass
		Q16	1	0	22.46	3.09	0.94	23.40	0.219	3.000	Pass
			5	0	21.37	3.09	0.94	22.31	0.170	3.000	Pass
15	LCH	QPSK	1	0	22.6	3.09	0.94	23.54	0.226	3.000	Pass
			6	0	22.55	3.09	0.94	23.49	0.223	3.000	Pass
		Q16	1	0	22.6	3.09	0.94	23.54	0.226	3.000	Pass
			5	0	22.54	3.09	0.94	23.48	0.223	3.000	Pass
	MCH	QPSK	1	0	22.25	3.09	0.94	23.19	0.208	3.000	Pass
			6	0	22.24	3.09	0.94	23.18	0.208	3.000	Pass
		Q16	1	0	22.36	3.09	0.94	23.30	0.214	3.000	Pass
			5	0	22.26	3.09	0.94	23.20	0.209	3.000	Pass
	HCH	QPSK	1	0	22.21	3.09	0.94	23.15	0.207	3.000	Pass
			6	0	22.21	3.09	0.94	23.15	0.207	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 71											
20		Q16	1	0	22.38	3.09	0.94	23.32	0.215	3.000	Pass
			5	0	22.18	3.09	0.94	23.12	0.205	3.000	Pass
	LCH	QPSK	1	0	22.53	3.09	0.94	23.47	0.222	3.000	Pass
			6	0	22.49	3.09	0.94	23.43	0.220	3.000	Pass
		Q16	1	0	22.51	3.09	0.94	23.45	0.221	3.000	Pass
			5	0	22.44	3.09	0.94	23.38	0.218	3.000	Pass
	MCH	QPSK	1	0	22.16	3.09	0.94	23.10	0.204	3.000	Pass
			6	0	22.16	3.09	0.94	23.10	0.204	3.000	Pass
		Q16	1	0	22.36	3.09	0.94	23.30	0.214	3.000	Pass
			5	0	22.19	3.09	0.94	23.13	0.206	3.000	Pass
	HCH	QPSK	1	0	22.22	3.09	0.94	23.16	0.207	3.000	Pass
			6	0	22.2	3.09	0.94	23.14	0.206	3.000	Pass
		Q16	1	0	22.39	3.09	0.94	23.33	0.215	3.000	Pass
			5	0	22.27	3.09	0.94	23.21	0.209	3.000	Pass

Bandwidth (MHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
CAT M BAND 85											
5	LCH	QPSK	1	0	22.49	3.19	1.04	23.53	0.225	3.000	Pass
			6	0	21.53	3.19	1.04	22.57	0.181	3.000	Pass
		Q16	1	0	22.53	3.19	1.04	23.57	0.228	3.000	Pass
			5	0	20.66	3.19	1.04	21.70	0.148	3.000	Pass
	MCH	QPSK	1	0	22.64	3.19	1.04	23.68	0.233	3.000	Pass
			6	0	21.7	3.19	1.04	22.74	0.188	3.000	Pass
		Q16	1	0	22.81	3.19	1.04	23.85	0.243	3.000	Pass
			5	0	20.85	3.19	1.04	21.89	0.155	3.000	Pass
	HCH	QPSK	1	0	22.46	3.19	1.04	23.50	0.224	3.000	Pass
			6	0	21.52	3.19	1.04	22.56	0.180	3.000	Pass
		Q16	1	0	22.65	3.19	1.04	23.69	0.234	3.000	Pass
			5	0	20.66	3.19	1.04	21.70	0.148	3.000	Pass
10	LCH	QPSK	1	0	22.47	3.19	1.04	23.51	0.224	3.000	Pass
			6	0	21.53	3.19	1.04	22.57	0.181	3.000	Pass
		Q16	1	0	22.7	3.19	1.04	23.74	0.237	3.000	Pass
			5	0	21.62	3.19	1.04	22.66	0.185	3.000	Pass
	MCH	QPSK	1	0	22.32	3.19	1.04	23.36	0.217	3.000	Pass
			6	0	21.38	3.19	1.04	22.42	0.175	3.000	Pass
		Q16	1	0	22.43	3.19	1.04	23.47	0.222	3.000	Pass
			5	0	21.46	3.19	1.04	22.50	0.178	3.000	Pass
	HCH	QPSK	1	0	22.27	3.19	1.04	23.31	0.214	3.000	Pass
			6	0	21.32	3.19	1.04	22.36	0.172	3.000	Pass
		Q16	1	0	22.34	3.19	1.04	23.38	0.218	3.000	Pass
			5	0	21.41	3.19	1.04	22.45	0.176	3.000	Pass

NB-IoT Mode Test Data

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
NB-IoT BAND 2										
3.75	LCH	QPSK	1	0	21.89	3.65	25.54	0.358	2.000	Pass
			1	47	21.82	3.65	25.47	0.352	2.000	Pass
		BPSK	1	0	21.72	3.65	25.37	0.344	2.000	Pass
			1	47	21.75	3.65	25.40	0.347	2.000	Pass
	MCH	QPSK	1	0	22.03	3.65	25.68	0.370	2.000	Pass
			1	47	22.04	3.65	25.69	0.371	2.000	Pass
		BPSK	1	0	22.22	3.65	25.87	0.386	2.000	Pass
			1	47	21.97	3.65	25.62	0.365	2.000	Pass
	HCH	QPSK	1	0	21.97	3.65	25.62	0.365	2.000	Pass
			1	47	21.95	3.65	25.60	0.363	2.000	Pass
		BPSK	1	0	21.8	3.65	25.45	0.351	2.000	Pass
			1	47	21.76	3.65	25.41	0.348	2.000	Pass
15	LCH	QPSK	1	0	21.78	3.65	25.43	0.349	2.000	Pass
			1	11	22.04	3.65	25.69	0.371	2.000	Pass
			12	0	22.01	3.65	25.66	0.368	2.000	Pass
		BPSK	1	0	22.29	3.65	25.94	0.393	2.000	Pass
			1	11	21.98	3.65	25.63	0.366	2.000	Pass
	MCH	QPSK	1	0	22.02	3.65	25.67	0.369	2.000	Pass
			1	11	22.06	3.65	25.71	0.372	2.000	Pass
			12	0	21.92	3.65	25.57	0.361	2.000	Pass
		BPSK	1	0	21.87	3.65	25.52	0.356	2.000	Pass
			1	11	21.89	3.65	25.54	0.358	2.000	Pass
	HCH	QPSK	1	0	22.15	3.65	25.80	0.380	2.000	Pass
			1	11	22.14	3.65	25.79	0.379	2.000	Pass
			12	0	22.32	3.65	25.97	0.395	2.000	Pass
		BPSK	1	0	22.09	3.65	25.74	0.375	2.000	Pass
			1	11	22.14	3.65	25.79	0.379	2.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
NB-IoT BAND 4										
3.75	LCH	QPSK	1	0	22.1	3.83	25.93	0.392	1.000	Pass
			1	47	22.09	3.83	25.92	0.391	1.000	Pass
		BPSK	1	0	21.99	3.83	25.82	0.382	1.000	Pass
			1	47	22.01	3.83	25.84	0.384	1.000	Pass
	MCH	QPSK	1	0	22.21	3.83	26.04	0.402	1.000	Pass
			1	47	22.2	3.83	26.03	0.401	1.000	Pass
		BPSK	1	0	22.57	3.83	26.40	0.437	1.000	Pass
			1	47	22.22	3.83	26.05	0.403	1.000	Pass
	HCH	QPSK	1	0	22.22	3.83	26.05	0.403	1.000	Pass
			1	47	22.02	3.83	25.85	0.385	1.000	Pass
		BPSK	1	0	22.04	3.83	25.87	0.386	1.000	Pass
			1	47	21.93	3.83	25.76	0.377	1.000	Pass
15	LCH	QPSK	1	0	21.95	3.83	25.78	0.378	1.000	Pass
			1	11	22.18	3.83	26.01	0.399	1.000	Pass
			12	0	22.17	3.83	26.00	0.398	1.000	Pass
		BPSK	1	0	22.51	3.83	26.34	0.431	1.000	Pass
			1	11	22.17	3.83	26.00	0.398	1.000	Pass
	MCH	QPSK	1	0	22.09	3.83	25.92	0.391	1.000	Pass
			1	11	22.01	3.83	25.84	0.384	1.000	Pass
			12	0	21.86	3.83	25.69	0.371	1.000	Pass
		BPSK	1	0	21.78	3.83	25.61	0.364	1.000	Pass
			1	11	21.81	3.83	25.64	0.366	1.000	Pass
	HCH	QPSK	1	0	22.03	3.83	25.86	0.385	1.000	Pass
			1	11	22.03	3.83	25.86	0.385	1.000	Pass
			12	0	22.37	3.83	26.20	0.417	1.000	Pass
		BPSK	1	0	21.98	3.83	25.81	0.381	1.000	Pass
			1	11	21.96	3.83	25.79	0.379	1.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 5											
3.75	LCH	QPSK	1	0	22.25	3.53	1.38	23.63	0.231	7.000	Pass
			1	47	22.21	3.53	1.38	23.59	0.229	7.000	Pass
		BPSK	1	0	22.14	3.53	1.38	23.52	0.225	7.000	Pass
			1	47	22.21	3.53	1.38	23.59	0.229	7.000	Pass
	MCH	QPSK	1	0	22.41	3.53	1.38	23.79	0.239	7.000	Pass
			1	47	22.39	3.53	1.38	23.77	0.238	7.000	Pass
		BPSK	1	0	22.57	3.53	1.38	23.95	0.248	7.000	Pass
			1	47	22.37	3.53	1.38	23.75	0.237	7.000	Pass
	HCH	QPSK	1	0	22.32	3.53	1.38	23.70	0.234	7.000	Pass
			1	47	22.13	3.53	1.38	23.51	0.224	7.000	Pass
		BPSK	1	0	22.1	3.53	1.38	23.48	0.223	7.000	Pass
			1	47	21.97	3.53	1.38	23.35	0.216	7.000	Pass
15	LCH	QPSK	1	0	22	3.53	1.38	23.38	0.218	7.000	Pass
			1	11	22.26	3.53	1.38	23.64	0.231	7.000	Pass
			12	0	22.23	3.53	1.38	23.61	0.230	7.000	Pass
		BPSK	1	0	22.56	3.53	1.38	23.94	0.248	7.000	Pass
			1	11	22.21	3.53	1.38	23.59	0.229	7.000	Pass
	MCH	QPSK	1	0	22.19	3.53	1.38	23.57	0.228	7.000	Pass
			1	11	22.31	3.53	1.38	23.69	0.234	7.000	Pass
			12	0	22.27	3.53	1.38	23.65	0.232	7.000	Pass
		BPSK	1	0	22.19	3.53	1.38	23.57	0.228	7.000	Pass
			1	11	22.21	3.53	1.38	23.59	0.229	7.000	Pass
	HCH	QPSK	1	0	22.44	3.53	1.38	23.82	0.241	7.000	Pass
			1	11	22.41	3.53	1.38	23.79	0.239	7.000	Pass
			12	0	22.59	3.53	1.38	23.97	0.249	7.000	Pass
		BPSK	1	0	22.38	3.53	1.38	23.76	0.238	7.000	Pass
			1	11	22.36	3.53	1.38	23.74	0.237	7.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measure d (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 12											
3.75	LCH	QPSK	1	0	21.86	3.19	1.04	22.90	0.195	3.000	Pass
			1	47	21.86	3.19	1.04	22.90	0.195	3.000	Pass
		BPSK	1	0	21.8	3.19	1.04	22.84	0.192	3.000	Pass
			1	47	21.82	3.19	1.04	22.86	0.193	3.000	Pass
	MCH	QPSK	1	0	22.02	3.19	1.04	23.06	0.202	3.000	Pass
			1	47	22	3.19	1.04	23.04	0.201	3.000	Pass
		BPSK	1	0	22.28	3.19	1.04	23.32	0.215	3.000	Pass
			1	47	22.04	3.19	1.04	23.08	0.203	3.000	Pass
	HCH	QPSK	1	0	21.96	3.19	1.04	23.00	0.200	3.000	Pass
			1	47	21.88	3.19	1.04	22.92	0.196	3.000	Pass
		BPSK	1	0	21.81	3.19	1.04	22.85	0.193	3.000	Pass
			1	47	21.78	3.19	1.04	22.82	0.191	3.000	Pass
15	LCH	QPSK	1	0	21.8	3.19	1.04	22.84	0.192	3.000	Pass
			1	11	21.97	3.19	1.04	23.01	0.200	3.000	Pass
			12	0	21.97	3.19	1.04	23.01	0.200	3.000	Pass
		BPSK	1	0	22.36	3.19	1.04	23.40	0.219	3.000	Pass
			1	11	22.02	3.19	1.04	23.06	0.202	3.000	Pass
	MCH	QPSK	1	0	21.96	3.19	1.04	23.00	0.200	3.000	Pass
			1	11	21.94	3.19	1.04	22.98	0.199	3.000	Pass
			12	0	21.87	3.19	1.04	22.91	0.195	3.000	Pass
		BPSK	1	0	21.84	3.19	1.04	22.88	0.194	3.000	Pass
			1	11	21.87	3.19	1.04	22.91	0.195	3.000	Pass
	HCH	QPSK	1	0	22.02	3.19	1.04	23.06	0.202	3.000	Pass
			1	11	21.99	3.19	1.04	23.03	0.201	3.000	Pass
			12	0	22.43	3.19	1.04	23.47	0.222	3.000	Pass
		BPSK	1	0	22	3.19	1.04	23.04	0.201	3.000	Pass
			1	11	21.99	3.19	1.04	23.03	0.201	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 13											
3.75	LCH	QPSK	1	0	22.19	1.92	-0.23	21.96	0.157	3.000	Pass
			1	47	22.19	1.92	-0.23	21.96	0.157	3.000	Pass
		BPSK	1	0	22.12	1.92	-0.23	21.89	0.155	3.000	Pass
			1	47	22.15	1.92	-0.23	21.92	0.156	3.000	Pass
	MCH	QPSK	1	0	22.35	1.92	-0.23	22.12	0.163	3.000	Pass
			1	47	22.34	1.92	-0.23	22.11	0.163	3.000	Pass
		BPSK	1	0	22.66	1.92	-0.23	22.43	0.175	3.000	Pass
			1	47	22.36	1.92	-0.23	22.13	0.163	3.000	Pass
	HCH	QPSK	1	0	22.37	1.92	-0.23	22.14	0.164	3.000	Pass
			1	47	22.4	1.92	-0.23	22.17	0.165	3.000	Pass
		BPSK	1	0	22.4	1.92	-0.23	22.17	0.165	3.000	Pass
			1	47	22.33	1.92	-0.23	22.10	0.162	3.000	Pass
15	LCH	QPSK	1	0	22.35	1.92	-0.23	22.12	0.163	3.000	Pass
			1	11	22.53	1.92	-0.23	22.30	0.170	3.000	Pass
			12	0	22.49	1.92	-0.23	22.26	0.168	3.000	Pass
		BPSK	1	0	22.82	1.92	-0.23	22.59	0.182	3.000	Pass
			1	11	22.53	1.92	-0.23	22.30	0.170	3.000	Pass
	MCH	QPSK	1	0	22.46	1.92	-0.23	22.23	0.167	3.000	Pass
			1	11	22.25	1.92	-0.23	22.02	0.159	3.000	Pass
			12	0	22.21	1.92	-0.23	21.98	0.158	3.000	Pass
		BPSK	1	0	22.15	1.92	-0.23	21.92	0.156	3.000	Pass
			1	11	22.21	1.92	-0.23	21.98	0.158	3.000	Pass
	HCH	QPSK	1	0	22.39	1.92	-0.23	22.16	0.164	3.000	Pass
			1	11	22.36	1.92	-0.23	22.13	0.163	3.000	Pass
			12	0	22.69	1.92	-0.23	22.46	0.176	3.000	Pass
		BPSK	1	0	22.4	1.92	-0.23	22.17	0.165	3.000	Pass
			1	11	22.33	1.92	-0.23	22.10	0.162	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 14											
3.75	LCH	QPSK	1	0	22.25	2.16	0.01	22.26	0.168	3.000	Pass
			1	47	22.26	2.16	0.01	22.27	0.169	3.000	Pass
		BPSK	1	0	22.2	2.16	0.01	22.21	0.166	3.000	Pass
			1	47	22.23	2.16	0.01	22.24	0.167	3.000	Pass
	MCH	QPSK	1	0	22.43	2.16	0.01	22.44	0.175	3.000	Pass
			1	47	22.39	2.16	0.01	22.40	0.174	3.000	Pass
		BPSK	1	0	22.72	2.16	0.01	22.73	0.187	3.000	Pass
			1	47	22.45	2.16	0.01	22.46	0.176	3.000	Pass
	HCH	QPSK	1	0	22.36	2.16	0.01	22.37	0.173	3.000	Pass
			1	47	22.43	2.16	0.01	22.44	0.175	3.000	Pass
		BPSK	1	0	22.43	2.16	0.01	22.44	0.175	3.000	Pass
			1	47	22.4	2.16	0.01	22.41	0.174	3.000	Pass
15	LCH	QPSK	1	0	22.43	2.16	0.01	22.44	0.175	3.000	Pass
			1	11	22.63	2.16	0.01	22.64	0.184	3.000	Pass
			12	0	22.61	2.16	0.01	22.62	0.183	3.000	Pass
		BPSK	1	0	22.88	2.16	0.01	22.89	0.195	3.000	Pass
			1	11	22.58	2.16	0.01	22.59	0.182	3.000	Pass
	MCH	QPSK	1	0	22.64	2.16	0.01	22.65	0.184	3.000	Pass
			1	11	22.62	2.16	0.01	22.63	0.183	3.000	Pass
			12	0	22.61	2.16	0.01	22.62	0.183	3.000	Pass
		BPSK	1	0	22.59	2.16	0.01	22.60	0.182	3.000	Pass
			1	11	22.61	2.16	0.01	22.62	0.183	3.000	Pass
	HCH	QPSK	1	0	22.8	2.16	0.01	22.81	0.191	3.000	Pass
			1	11	22.78	2.16	0.01	22.79	0.190	3.000	Pass
			12	0	23	2.16	0.01	23.01	0.200	3.000	Pass
		BPSK	1	0	22.8	2.16	0.01	22.81	0.191	3.000	Pass
			1	11	22.72	2.16	0.01	22.73	0.187	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 18(Part 22)											
3.75	LCH	QPSK	1	0	22.18	3.53	1.38	23.56	0.227	3.000	Pass
			1	47	22.18	3.53	1.38	23.56	0.227	3.000	Pass
		BPSK	1	0	22.16	3.53	1.38	23.54	0.226	3.000	Pass
			1	47	22.18	3.53	1.38	23.56	0.227	3.000	Pass
	MCH	QPSK	1	0	22.37	3.53	1.38	23.75	0.237	3.000	Pass
			1	47	22.37	3.53	1.38	23.75	0.237	3.000	Pass
		BPSK	1	0	22.67	3.53	1.38	24.05	0.254	3.000	Pass
			1	47	22.39	3.53	1.38	23.77	0.238	3.000	Pass
	HCH	QPSK	1	0	22.31	3.53	1.38	23.69	0.234	3.000	Pass
			1	47	22.3	3.53	1.38	23.68	0.233	3.000	Pass
		BPSK	1	0	22.3	3.53	1.38	23.68	0.233	3.000	Pass
			1	47	22.23	3.53	1.38	23.61	0.230	3.000	Pass
15	LCH	QPSK	1	0	22.26	3.53	1.38	23.64	0.231	3.000	Pass
			1	11	22.46	3.53	1.38	23.84	0.242	3.000	Pass
			12	0	22.45	3.53	1.38	23.83	0.242	3.000	Pass
		BPSK	1	0	22.74	3.53	1.38	24.12	0.258	3.000	Pass
			1	11	22.48	3.53	1.38	23.86	0.243	3.000	Pass
	MCH	QPSK	1	0	22.44	3.53	1.38	23.82	0.241	3.000	Pass
			1	11	22.35	3.53	1.38	23.73	0.236	3.000	Pass
			12	0	22.37	3.53	1.38	23.75	0.237	3.000	Pass
		BPSK	1	0	22.29	3.53	1.38	23.67	0.233	3.000	Pass
			1	11	22.31	3.53	1.38	23.69	0.234	3.000	Pass
	HCH	QPSK	1	0	22.53	3.53	1.38	23.91	0.246	3.000	Pass
			1	11	22.51	3.53	1.38	23.89	0.245	3.000	Pass
			12	0	22.7	3.53	1.38	24.08	0.256	3.000	Pass
		BPSK	1	0	22.55	3.53	1.38	23.93	0.247	3.000	Pass
			1	11	22.48	3.53	1.38	23.86	0.243	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 18(Part 90)											
3.75	LCH	QPSK	1	0	22.01	3.07	0.92	22.93	0.196	3.000	Pass
			1	47	21.91	3.07	0.92	22.83	0.192	3.000	Pass
		BPSK	1	0	21.88	3.07	0.92	22.80	0.191	3.000	Pass
			1	47	21.94	3.07	0.92	22.86	0.193	3.000	Pass
	MCH	QPSK	1	0	22.12	3.07	0.92	23.04	0.201	3.000	Pass
			1	47	22.1	3.07	0.92	23.02	0.200	3.000	Pass
		BPSK	1	0	22.38	3.07	0.92	23.30	0.214	3.000	Pass
			1	47	22.13	3.07	0.92	23.05	0.202	3.000	Pass
	HCH	QPSK	1	0	22.15	3.07	0.92	23.07	0.203	3.000	Pass
			1	47	22.1	3.07	0.92	23.02	0.200	3.000	Pass
		BPSK	1	0	22.1	3.07	0.92	23.02	0.200	3.000	Pass
			1	47	22.04	3.07	0.92	22.96	0.198	3.000	Pass
15	LCH	QPSK	1	0	22.06	3.07	0.92	22.98	0.199	3.000	Pass
			1	11	22.25	3.07	0.92	23.17	0.207	3.000	Pass
			12	0	22.24	3.07	0.92	23.16	0.207	3.000	Pass
		BPSK	1	0	22.57	3.07	0.92	23.49	0.223	3.000	Pass
			1	11	22.23	3.07	0.92	23.15	0.207	3.000	Pass
	MCH	QPSK	1	0	22.26	3.07	0.92	23.18	0.208	3.000	Pass
			1	11	22.2	3.07	0.92	23.12	0.205	3.000	Pass
			12	0	22.17	3.07	0.92	23.09	0.204	3.000	Pass
		BPSK	1	0	22.14	3.07	0.92	23.06	0.202	3.000	Pass
			1	11	22.17	3.07	0.92	23.09	0.204	3.000	Pass
	HCH	QPSK	1	0	22.36	3.07	0.92	23.28	0.213	3.000	Pass
			1	11	22.36	3.07	0.92	23.28	0.213	3.000	Pass
			12	0	22.67	3.07	0.92	23.59	0.229	3.000	Pass
		BPSK	1	0	22.37	3.07	0.92	23.29	0.213	3.000	Pass
			1	11	22.34	3.07	0.92	23.26	0.212	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
NB-IoT BAND 25										
3.75	LCH	QPSK	1	0	21.99	3.65	25.64	0.366	2.000	Pass
			1	47	21.74	3.65	25.39	0.346	2.000	Pass
		BPSK	1	0	21.68	3.65	25.33	0.341	2.000	Pass
			1	47	21.8	3.65	25.45	0.351	2.000	Pass
	MCH	QPSK	1	0	22.03	3.65	25.68	0.370	2.000	Pass
			1	47	22.01	3.65	25.66	0.368	2.000	Pass
		BPSK	1	0	22.18	3.65	25.83	0.383	2.000	Pass
			1	47	21.94	3.65	25.59	0.362	2.000	Pass
	HCH	QPSK	1	0	22.02	3.65	25.67	0.369	2.000	Pass
			1	47	21.93	3.65	25.58	0.361	2.000	Pass
		BPSK	1	0	21.87	3.65	25.52	0.356	2.000	Pass
			1	47	21.74	3.65	25.39	0.346	2.000	Pass
15	LCH	QPSK	1	0	21.76	3.65	25.41	0.348	2.000	Pass
			1	11	22.01	3.65	25.66	0.368	2.000	Pass
			12	0	22	3.65	25.65	0.367	2.000	Pass
		BPSK	1	0	22.14	3.65	25.79	0.379	2.000	Pass
			1	11	21.98	3.65	25.63	0.366	2.000	Pass
	MCH	QPSK	1	0	21.88	3.65	25.53	0.357	2.000	Pass
			1	11	21.93	3.65	25.58	0.361	2.000	Pass
			12	0	21.96	3.65	25.61	0.364	2.000	Pass
		BPSK	1	0	21.85	3.65	25.50	0.355	2.000	Pass
			1	11	21.86	3.65	25.51	0.356	2.000	Pass
	HCH	QPSK	1	0	22.07	3.65	25.72	0.373	2.000	Pass
			1	11	22.08	3.65	25.73	0.374	2.000	Pass
			12	0	22.17	3.65	25.82	0.382	2.000	Pass
		BPSK	1	0	22.11	3.65	25.76	0.377	2.000	Pass
			1	11	22.09	3.65	25.74	0.375	2.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 26(Part 22)											
3.75	LCH	QPSK	1	0	22.21	3.53	1.38	23.59	0.229	7.000	Pass
			1	47	22.2	3.53	1.38	23.58	0.228	7.000	Pass
		BPSK	1	0	22.16	3.53	1.38	23.54	0.226	7.000	Pass
			1	47	22.18	3.53	1.38	23.56	0.227	7.000	Pass
	MCH	QPSK	1	0	22.39	3.53	1.38	23.77	0.238	7.000	Pass
			1	47	22.33	3.53	1.38	23.71	0.235	7.000	Pass
		BPSK	1	0	22.61	3.53	1.38	23.99	0.251	7.000	Pass
			1	47	22.38	3.53	1.38	23.76	0.238	7.000	Pass
	HCH	QPSK	1	0	22.3	3.53	1.38	23.68	0.233	7.000	Pass
			1	47	22.09	3.53	1.38	23.47	0.222	7.000	Pass
		BPSK	1	0	22.09	3.53	1.38	23.47	0.222	7.000	Pass
			1	47	21.97	3.53	1.38	23.35	0.216	7.000	Pass
15	LCH	QPSK	1	0	22	3.53	1.38	23.38	0.218	7.000	Pass
			1	11	22.24	3.53	1.38	23.62	0.230	7.000	Pass
			12	0	22.2	3.53	1.38	23.58	0.228	7.000	Pass
		BPSK	1	0	22.47	3.53	1.38	23.85	0.243	7.000	Pass
			1	11	22.17	3.53	1.38	23.55	0.226	7.000	Pass
	MCH	QPSK	1	0	22.22	3.53	1.38	23.60	0.229	7.000	Pass
			1	11	22.26	3.53	1.38	23.64	0.231	7.000	Pass
			12	0	22.28	3.53	1.38	23.66	0.232	7.000	Pass
		BPSK	1	0	22.19	3.53	1.38	23.57	0.228	7.000	Pass
			1	11	22.21	3.53	1.38	23.59	0.229	7.000	Pass
	HCH	QPSK	1	0	22.45	3.53	1.38	23.83	0.242	7.000	Pass
			1	11	22.44	3.53	1.38	23.82	0.241	7.000	Pass
			12	0	22.6	3.53	1.38	23.98	0.250	7.000	Pass
		BPSK	1	0	22.37	3.53	1.38	23.75	0.237	7.000	Pass
			1	11	22.41	3.53	1.38	23.79	0.239	7.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 26(Part 90)											
3.75	LCH	QPSK	1	0	22.43	3.07	0.92	23.35	0.216	100.00	Pass
			1	47	22.35	3.07	0.92	23.27	0.212	100.00	Pass
		BPSK	1	0	22.32	3.07	0.92	23.24	0.211	100.00	Pass
			1	47	22.39	3.07	0.92	23.31	0.214	100.00	Pass
	MCH	QPSK	1	0	22.57	3.07	0.92	23.49	0.223	100.00	Pass
			1	47	22.51	3.07	0.92	23.43	0.220	100.00	Pass
		BPSK	1	0	22.84	3.07	0.92	23.76	0.238	100.00	Pass
			1	47	22.52	3.07	0.92	23.44	0.221	100.00	Pass
	HCH	QPSK	1	0	22.56	3.07	0.92	23.48	0.223	100.00	Pass
			1	47	22.1	3.07	0.92	23.02	0.200	100.00	Pass
		BPSK	1	0	22.08	3.07	0.92	23.00	0.200	100.00	Pass
			1	47	22.01	3.07	0.92	22.93	0.196	100.00	Pass
15	LCH	QPSK	1	0	22.08	3.07	0.92	23.00	0.200	100.00	Pass
			1	11	22.23	3.07	0.92	23.15	0.207	100.00	Pass
			12	0	22.23	3.07	0.92	23.15	0.207	100.00	Pass
		BPSK	1	0	22.5	3.07	0.92	23.42	0.220	100.00	Pass
			1	11	22.2	3.07	0.92	23.12	0.205	100.00	Pass
	MCH	QPSK	1	0	22.19	3.07	0.92	23.11	0.205	100.00	Pass
			1	11	22.28	3.07	0.92	23.20	0.209	100.00	Pass
			12	0	22.16	3.07	0.92	23.08	0.203	100.00	Pass
		BPSK	1	0	22.13	3.07	0.92	23.05	0.202	100.00	Pass
			1	11	22.19	3.07	0.92	23.11	0.205	100.00	Pass
	HCH	QPSK	1	0	22.37	3.07	0.92	23.29	0.213	100.00	Pass
			1	11	22.35	3.07	0.92	23.27	0.212	100.00	Pass
			12	0	22.65	3.07	0.92	23.57	0.228	100.00	Pass
		BPSK	1	0	22.38	3.07	0.92	23.30	0.214	100.00	Pass
			1	11	22.3	3.07	0.92	23.22	0.210	100.00	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
NB-IoT BAND 66										
3.75	LCH	QPSK	1	0	22.04	3.6	25.64	0.366	1.000	Pass
			1	47	22.01	3.6	25.61	0.364	1.000	Pass
		BPSK	1	0	21.98	3.6	25.58	0.361	1.000	Pass
			1	47	21.99	3.6	25.59	0.362	1.000	Pass
	MCH	QPSK	1	0	22.23	3.6	25.83	0.383	1.000	Pass
			1	47	22.2	3.6	25.80	0.380	1.000	Pass
		BPSK	1	0	22.52	3.6	26.12	0.409	1.000	Pass
			1	47	22.18	3.6	25.78	0.378	1.000	Pass
	HCH	QPSK	1	0	22.22	3.6	25.82	0.382	1.000	Pass
			1	47	21.99	3.6	25.59	0.362	1.000	Pass
		BPSK	1	0	21.97	3.6	25.57	0.361	1.000	Pass
			1	47	21.88	3.6	25.48	0.353	1.000	Pass
15	LCH	QPSK	1	0	21.91	3.6	25.51	0.356	1.000	Pass
			1	11	22.2	3.6	25.80	0.380	1.000	Pass
			12	0	22.19	3.6	25.79	0.379	1.000	Pass
		BPSK	1	0	22.57	3.6	26.17	0.414	1.000	Pass
			1	11	22.17	3.6	25.77	0.378	1.000	Pass
	MCH	QPSK	1	0	22.15	3.6	25.75	0.376	1.000	Pass
			1	11	21.93	3.6	25.53	0.357	1.000	Pass
			12	0	21.78	3.6	25.38	0.345	1.000	Pass
		BPSK	1	0	21.72	3.6	25.32	0.340	1.000	Pass
			1	11	21.75	3.6	25.35	0.343	1.000	Pass
	HCH	QPSK	1	0	21.96	3.6	25.56	0.360	1.000	Pass
			1	11	21.94	3.6	25.54	0.358	1.000	Pass
			12	0	22.43	3.6	26.03	0.401	1.000	Pass
		BPSK	1	0	21.93	3.6	25.53	0.357	1.000	Pass
			1	11	21.98	3.6	25.58	0.361	1.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 71											
3.75	LCH	QPSK	1	0	22	3.09	0.94	22.94	0.197	3.000	Pass
			1	47	21.93	3.09	0.94	22.87	0.194	3.000	Pass
		BPSK	1	0	21.9	3.09	0.94	22.84	0.192	3.000	Pass
			1	47	21.92	3.09	0.94	22.86	0.193	3.000	Pass
	MCH	QPSK	1	0	22.11	3.09	0.94	23.05	0.202	3.000	Pass
			1	47	22.1	3.09	0.94	23.04	0.201	3.000	Pass
		BPSK	1	0	22.44	3.09	0.94	23.38	0.218	3.000	Pass
			1	47	22.14	3.09	0.94	23.08	0.203	3.000	Pass
	HCH	QPSK	1	0	22.05	3.09	0.94	22.99	0.199	3.000	Pass
			1	47	21.89	3.09	0.94	22.83	0.192	3.000	Pass
		BPSK	1	0	21.89	3.09	0.94	22.83	0.192	3.000	Pass
			1	47	21.83	3.09	0.94	22.77	0.189	3.000	Pass
15	LCH	QPSK	1	0	21.85	3.09	0.94	22.79	0.190	3.000	Pass
			1	11	22.05	3.09	0.94	22.99	0.199	3.000	Pass
			12	0	22.01	3.09	0.94	22.95	0.197	3.000	Pass
		BPSK	1	0	22.43	3.09	0.94	23.37	0.217	3.000	Pass
			1	11	22.01	3.09	0.94	22.95	0.197	3.000	Pass
	MCH	QPSK	1	0	22	3.09	0.94	22.94	0.197	3.000	Pass
			1	11	21.81	3.09	0.94	22.75	0.188	3.000	Pass
			12	0	21.81	3.09	0.94	22.75	0.188	3.000	Pass
		BPSK	1	0	21.75	3.09	0.94	22.69	0.186	3.000	Pass
			1	11	21.78	3.09	0.94	22.72	0.187	3.000	Pass
	HCH	QPSK	1	0	21.96	3.09	0.94	22.90	0.195	3.000	Pass
			1	11	21.94	3.09	0.94	22.88	0.194	3.000	Pass
			12	0	22.29	3.09	0.94	23.23	0.210	3.000	Pass
		BPSK	1	0	21.97	3.09	0.94	22.91	0.195	3.000	Pass
			1	11	21.9	3.09	0.94	22.84	0.192	3.000	Pass

Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Measured (dBm)	Antenna Gain (dBi)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
NB-IoT BAND 85											
3.75	LCH	QPSK	1	0	21.89	3.19	1.04	22.93	0.196	3.000	Pass
			1	47	21.79	3.19	1.04	22.83	0.192	3.000	Pass
		BPSK	1	0	21.75	3.19	1.04	22.79	0.190	3.000	Pass
			1	47	21.8	3.19	1.04	22.84	0.192	3.000	Pass
	MCH	QPSK	1	0	21.98	3.19	1.04	23.02	0.200	3.000	Pass
			1	47	21.95	3.19	1.04	22.99	0.199	3.000	Pass
		BPSK	1	0	22.34	3.19	1.04	23.38	0.218	3.000	Pass
			1	47	22	3.19	1.04	23.04	0.201	3.000	Pass
	HCH	QPSK	1	0	21.93	3.19	1.04	22.97	0.198	3.000	Pass
			1	47	21.88	3.19	1.04	22.92	0.196	3.000	Pass
		BPSK	1	0	21.78	3.19	1.04	22.82	0.191	3.000	Pass
			1	47	21.76	3.19	1.04	22.80	0.191	3.000	Pass
15	LCH	QPSK	1	0	21.8	3.19	1.04	22.84	0.192	3.000	Pass
			1	11	21.94	3.19	1.04	22.98	0.199	3.000	Pass
			12	0	21.91	3.19	1.04	22.95	0.197	3.000	Pass
		BPSK	1	0	22.33	3.19	1.04	23.37	0.217	3.000	Pass
			1	11	21.9	3.19	1.04	22.94	0.197	3.000	Pass
	MCH	QPSK	1	0	21.93	3.19	1.04	22.97	0.198	3.000	Pass
			1	11	21.95	3.19	1.04	22.99	0.199	3.000	Pass
			12	0	21.85	3.19	1.04	22.89	0.195	3.000	Pass
		BPSK	1	0	21.84	3.19	1.04	22.88	0.194	3.000	Pass
			1	11	21.88	3.19	1.04	22.92	0.196	3.000	Pass
	HCH	QPSK	1	0	22.01	3.19	1.04	23.05	0.202	3.000	Pass
			1	11	21.95	3.19	1.04	22.99	0.199	3.000	Pass
			12	0	22.38	3.19	1.04	23.42	0.220	3.000	Pass
		BPSK	1	0	22.02	3.19	1.04	23.06	0.202	3.000	Pass
			1	11	22.01	3.19	1.04	23.05	0.202	3.000	Pass