

LTE Band 66 (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1720.00	19.50	H	4.32	9.55	24.73	297.17	30.00	-5.27	1/99
		1745.00	19.44	H	4.35	9.66	24.75	298.54	30.00	-5.25	1/49
		1770.00	18.24	H	4.38	9.68	23.55	226.46	30.00	-6.45	1/49
	16-QAM	1720.00	18.69	H	4.32	9.55	23.92	246.60	30.00	-6.08	1/99
		1745.00	18.34	H	4.35	9.66	23.65	231.74	30.00	-6.35	1/49
		1770.00	17.28	H	4.38	9.68	22.59	181.55	30.00	-7.41	1/99
15	QPSK	1717.50	19.19	H	4.31	9.53	24.41	276.06	30.00	-5.59	1/74
		1745.00	19.11	H	4.35	9.66	24.42	276.69	30.00	-5.58	1/37
		1772.50	18.63	H	4.38	9.68	23.93	247.17	30.00	-6.07	1/37
	16-QAM	1717.50	18.29	H	4.31	9.53	23.51	224.39	30.00	-6.49	1/74
		1745.00	18.01	H	4.35	9.66	23.32	214.78	30.00	-6.68	1/37
		1772.50	17.71	H	4.38	9.68	23.01	199.99	30.00	-6.99	1/37
10	QPSK	1715.00	19.81	H	4.31	9.52	25.02	317.69	30.00	-4.98	1/49
		1745.00	19.42	H	4.35	9.66	24.73	297.17	30.00	-5.27	1/25
		1775.00	18.42	H	4.38	9.68	23.72	235.50	30.00	-6.28	1/25
	16-QAM	1715.00	18.64	H	4.31	9.52	23.85	242.66	30.00	-6.15	1/25
		1745.00	18.40	H	4.35	9.66	23.71	234.96	30.00	-6.29	1/49
		1775.00	17.44	H	4.38	9.68	22.74	187.93	30.00	-7.26	1/0
5	QPSK	1712.50	19.46	H	4.31	9.51	24.67	293.09	30.00	-5.33	1/0
		1745.00	18.94	H	4.35	9.66	24.25	266.07	30.00	-5.75	1/12
		1777.50	18.00	H	4.39	9.68	23.30	213.80	30.00	-6.70	1/12
	16-QAM	1712.50	18.77	H	4.31	9.51	23.98	250.03	30.00	-6.02	1/24
		1745.00	17.72	H	4.35	9.66	23.03	200.91	30.00	-6.97	1/24
		1777.50	17.26	H	4.39	9.68	22.56	180.30	30.00	-7.44	1/24
3	QPSK	1711.50	19.81	H	4.31	9.51	25.01	316.96	30.00	-4.99	1/8
		1745.00	19.19	H	4.35	9.66	24.50	281.84	30.00	-5.50	1/14
		1778.50	17.84	H	4.39	9.68	23.13	205.59	30.00	-6.87	1/0
	16-QAM	1711.50	19.17	H	4.31	9.51	24.37	273.53	30.00	-5.63	1/8
		1745.00	18.30	H	4.35	9.66	23.61	229.61	30.00	-6.39	1/8
		1778.50	17.19	H	4.39	9.68	22.48	177.01	30.00	-7.52	1/0
1.4	QPSK	1710.70	19.79	H	4.31	9.50	24.99	315.50	30.00	-5.01	1/3
		1745.00	19.09	H	4.35	9.66	24.40	275.42	30.00	-5.60	1/0
		1779.30	18.01	H	4.39	9.68	23.30	213.80	30.00	-6.70	1/5
	16-QAM	1710.70	19.09	H	4.31	9.50	24.29	268.53	30.00	-5.71	1/5
		1745.00	18.08	H	4.35	9.66	23.39	218.27	30.00	-6.61	1/5
		1779.30	17.17	H	4.39	9.68	22.46	176.20	30.00	-7.54	1/0

LTE Band 66 (ANT B)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	1720.00	11.46	V	4.32	9.55	16.69	46.67	30.00	-13.31	1/0
		1745.00	12.69	V	4.35	9.66	18.00	63.10	30.00	-12.00	1/99
		1770.00	13.83	V	4.38	9.68	19.14	82.04	30.00	-10.86	1/0
	16-QAM	1720.00	10.95	V	4.32	9.55	16.18	41.50	30.00	-13.82	1/0
		1745.00	11.72	V	4.35	9.66	17.03	50.47	30.00	-12.97	1/0
		1770.00	12.91	V	4.38	9.68	18.22	66.37	30.00	-11.78	1/0
15	QPSK	1717.50	11.26	V	4.31	9.53	16.48	44.46	30.00	-13.52	1/0
		1745.00	12.70	V	4.35	9.66	18.01	63.24	30.00	-11.99	1/0
		1772.50	13.82	V	4.38	9.68	19.12	81.66	30.00	-10.88	1/37
	16-QAM	1717.50	10.73	V	4.31	9.53	15.95	39.36	30.00	-14.05	1/37
		1745.00	11.94	V	4.35	9.66	17.25	53.09	30.00	-12.75	1/0
		1772.50	13.19	V	4.38	9.68	18.49	70.63	30.00	-11.51	1/0
10	QPSK	1715.00	11.24	V	4.31	9.52	16.45	44.16	30.00	-13.55	1/0
		1745.00	12.73	V	4.35	9.66	18.04	63.68	30.00	-11.96	1/25
		1775.00	13.77	V	4.38	9.68	19.07	80.72	30.00	-10.93	1/0
	16-QAM	1715.00	10.91	V	4.31	9.52	16.12	40.93	30.00	-13.88	1/0
		1745.00	11.77	V	4.35	9.66	17.08	51.05	30.00	-12.92	1/49
		1775.00	12.96	V	4.38	9.68	18.26	66.99	30.00	-11.74	1/25
5	QPSK	1712.50	11.17	V	4.31	9.51	16.37	43.35	30.00	-13.63	1/24
		1745.00	12.71	V	4.35	9.66	18.02	63.39	30.00	-11.98	1/0
		1777.50	13.78	V	4.39	9.68	19.07	80.72	30.00	-10.93	1/0
	16-QAM	1712.50	10.57	V	4.31	9.51	15.77	37.76	30.00	-14.23	1/24
		1745.00	11.65	V	4.35	9.66	16.96	49.66	30.00	-13.04	1/0
		1777.50	13.02	V	4.39	9.68	18.31	67.76	30.00	-11.69	1/24
3	QPSK	1711.50	11.17	V	4.31	9.51	16.37	43.35	30.00	-13.63	1/0
		1745.00	12.74	V	4.35	9.66	18.05	63.83	30.00	-11.95	1/14
		1778.50	13.69	V	4.39	9.68	18.98	79.07	30.00	-11.02	1/0
	16-QAM	1711.50	10.35	V	4.31	9.51	15.55	35.89	30.00	-14.45	1/14
		1745.00	11.52	V	4.35	9.66	16.83	48.19	30.00	-13.17	1/14
		1778.50	13.21	V	4.39	9.68	18.50	70.79	30.00	-11.50	1/0
1.4	QPSK	1710.70	11.20	V	4.31	9.50	16.40	43.65	30.00	-13.60	1/0
		1745.00	12.73	V	4.35	9.66	18.04	63.68	30.00	-11.96	1/0
		1779.30	13.78	V	4.39	9.68	19.07	80.72	30.00	-10.93	1/0
	16-QAM	1710.70	10.80	V	4.31	9.50	16.00	39.81	30.00	-14.00	1/5
		1745.00	11.56	V	4.35	9.66	16.87	48.64	30.00	-13.13	1/5
		1779.30	13.02	V	4.39	9.68	18.31	67.76	30.00	-11.69	1/3

LTE Band 71

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	22.70	H	2.73	-1.43	18.54	71.45	34.77	-16.23	1/0
		680.50	22.19	H	2.74	-1.41	18.04	63.68	34.77	-16.73	1/0
		688.00	21.51	H	2.76	-1.39	17.36	54.45	34.77	-17.41	1/0
	16-QAM	673.00	21.60	H	2.73	-1.43	17.44	55.46	34.77	-17.33	1/49
		680.50	21.31	H	2.74	-1.41	17.16	52.00	34.77	-17.61	1/0
		688.00	20.32	H	2.76	-1.39	16.17	41.40	34.77	-18.60	1/49
15	QPSK	670.50	22.44	H	2.72	-1.44	18.28	67.30	34.77	-16.49	1/37
		680.50	22.15	H	2.74	-1.41	18.00	63.10	34.77	-16.77	1/74
		690.50	20.87	H	2.76	-1.38	16.73	47.10	34.77	-18.04	1/37
	16-QAM	670.50	21.50	H	2.72	-1.44	17.34	54.20	34.77	-17.43	1/37
		680.50	21.11	H	2.74	-1.41	16.96	49.66	34.77	-17.81	1/74
		690.50	18.92	H	2.76	-1.38	14.78	30.06	34.77	-19.99	1/74
10	QPSK	668.00	22.30	H	2.72	-1.45	18.14	65.16	34.77	-16.63	1/0
		680.50	22.20	H	2.74	-1.41	18.05	63.83	34.77	-16.72	1/0
		693.00	20.76	H	2.77	-1.37	16.62	45.92	34.77	-18.15	1/0
	16-QAM	668.00	21.35	H	2.72	-1.45	17.19	52.36	34.77	-17.58	1/0
		680.50	21.10	H	2.74	-1.41	16.95	49.55	34.77	-17.82	1/0
		693.00	19.66	H	2.77	-1.37	15.52	35.65	34.77	-19.25	1/49
5	QPSK	665.50	22.11	H	2.71	-1.45	17.95	62.37	34.77	-16.82	1/0
		680.50	21.46	H	2.74	-1.41	17.31	53.83	34.77	-17.46	1/12
		695.50	20.15	H	2.77	-1.36	16.02	39.99	34.77	-18.75	1/0
	16-QAM	665.50	20.60	H	2.71	-1.45	16.44	44.06	34.77	-18.33	1/0
		680.50	20.38	H	2.74	-1.41	16.23	41.98	34.77	-18.54	1/24
		695.50	18.93	H	2.77	-1.36	14.80	30.20	34.77	-19.97	1/24

NR Band n30

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
10	QPSK	2310.00	17.65	H	5.03	9.71	22.34	171.40	24.00	-1.66	1/50
	16-QAM	2310.00	17.40	H	5.03	9.71	22.09	161.81	24.00	-1.91	1/1
5	QPSK	2307.50	17.68	H	5.02	9.70	22.36	172.19	24.00	-1.64	1/23
		2310.00	17.73	H	5.03	9.71	22.42	174.58	24.00	-1.58	1/1
		2312.50	17.17	H	5.03	9.73	21.86	153.46	24.00	-2.14	1/23
	16-QAM	2307.50	17.64	H	5.03	9.72	22.33	171.00	24.00	-1.67	1/23
		2310.00	17.58	H	5.03	9.71	22.27	168.66	24.00	-1.73	1/23
		2312.50	17.13	H	5.03	9.71	21.82	152.05	24.00	-2.18	1/23

NR Band n41 (PC2)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	2546.01	24.61	H	5.29	9.91	29.23	837.53	33.00	-3.77	1/271
		2592.99	24.15	H	5.34	9.91	28.73	746.45	33.00	-4.27	1/137
		2640.00	22.77	H	5.39	9.88	27.26	532.11	33.00	-5.74	1/1
	16-QAM	2546.01	23.70	H	5.29	9.91	28.33	680.77	33.00	-4.67	1/271
		2592.99	23.37	H	5.34	9.91	27.94	622.30	33.00	-5.06	1/271
		2640.00	21.86	H	5.39	9.88	26.34	430.53	33.00	-6.66	1/1
90	QPSK	2541.00	24.17	H	5.28	9.92	28.81	760.33	33.00	-4.19	1/243
		2592.99	23.78	H	5.34	9.91	28.36	685.49	33.00	-4.64	1/123
		2644.98	22.55	H	5.40	9.87	27.03	504.66	33.00	-5.97	1/1
	16-QAM	2541.00	23.19	H	5.28	9.92	27.83	606.74	33.00	-5.17	1/243
		2592.99	23.02	H	5.34	9.91	27.60	575.44	33.00	-5.40	1/243
		2644.98	21.69	H	5.40	9.87	26.17	414.00	33.00	-6.83	1/1
80	QPSK	2536.02	23.95	H	5.28	9.93	28.61	726.11	33.00	-4.39	1/215
		2592.99	23.78	H	5.34	9.91	28.36	685.49	33.00	-4.64	1/109
		2649.99	22.84	H	5.41	9.87	27.30	537.03	33.00	-5.70	1/1
	16-QAM	2536.02	22.89	H	5.28	9.93	27.54	567.54	33.00	-5.46	1/215
		2592.99	22.84	H	5.34	9.91	27.42	552.08	33.00	-5.58	1/215
		2649.99	21.93	H	5.41	9.87	26.39	435.51	33.00	-6.61	1/1
70	QPSK	2531.02	24.19	H	5.28	9.94	28.86	769.13	33.00	-4.14	1/187
		2593.99	23.60	H	5.34	9.91	28.18	657.66	33.00	-4.82	1/95
		2654.98	22.96	H	5.41	9.87	27.42	552.08	33.00	-5.58	1/1
	16-QAM	2531.02	23.37	H	5.28	9.94	28.04	636.80	33.00	-4.96	1/187
		2593.99	22.67	H	5.34	9.91	27.24	529.66	33.00	-5.76	1/187
		2654.98	22.16	H	5.41	9.87	26.62	459.20	33.00	-6.38	1/1
60	QPSK	2526.00	24.47	H	5.27	9.95	29.16	824.14	33.00	-3.84	1/160
		2592.99	23.51	H	5.34	9.91	28.08	642.69	33.00	-4.92	1/81
		2659.98	22.65	H	5.41	9.87	27.11	514.04	33.00	-5.89	1/1
	16-QAM	2526.00	23.54	H	5.27	9.95	28.22	663.74	33.00	-4.78	1/160
		2592.99	22.59	H	5.34	9.91	27.16	520.00	33.00	-5.84	1/160
		2659.98	21.68	H	5.41	9.87	26.14	411.15	33.00	-6.86	1/1
50	QPSK	2521.01	24.11	H	5.26	9.96	28.81	760.33	33.00	-4.19	1/67
		2592.99	23.48	H	5.34	9.91	28.06	639.73	33.00	-4.94	1/67
		2665.00	22.24	H	5.42	9.87	26.68	465.59	33.00	-6.32	1/1
	16-QAM	2521.01	23.17	H	5.26	9.96	27.87	612.35	33.00	-5.13	1/67
		2592.99	22.45	H	5.34	9.91	27.03	504.66	33.00	-5.97	1/131
		2665.00	21.28	H	5.42	9.87	25.72	373.25	33.00	-7.28	1/1
40	QPSK	2516.01	24.15	H	5.26	9.97	28.86	769.13	33.00	-4.14	1/104
		2592.99	23.54	H	5.34	9.91	28.12	648.63	33.00	-4.88	1/53
		2670.00	22.42	H	5.43	9.87	26.86	485.29	33.00	-6.14	1/1
	16-QAM	2516.01	23.32	H	5.26	9.97	28.03	635.33	33.00	-4.97	1/104
		2592.99	22.73	H	5.34	9.91	27.31	538.27	33.00	-5.69	1/104
		2670.00	21.36	H	5.43	9.87	25.80	380.19	33.00	-7.20	1/1
30	QPSK	2511.00	23.82	H	5.25	9.98	28.55	716.14	33.00	-4.45	1/76
		2592.99	23.42	H	5.34	9.91	27.99	629.51	33.00	-5.01	1/39
		2675.00	22.29	H	5.43	9.87	26.74	472.06	33.00	-6.26	1/1
	16-QAM	2511.00	23.12	H	5.25	9.98	27.85	609.54	33.00	-5.15	1/76
		2592.99	22.51	H	5.34	9.91	27.09	511.68	33.00	-5.91	1/39
		2675.00	21.45	H	5.43	9.87	25.90	389.05	33.00	-7.10	1/1
20	QPSK	2506.02	24.07	H	5.25	9.99	28.81	760.33	33.00	-4.19	1/26
		2592.99	23.28	H	5.34	9.91	27.86	610.94	33.00	-5.14	1/26
		2679.99	22.04	H	5.43	9.87	26.48	444.63	33.00	-6.52	1/1
	16-QAM	2506.02	23.16	H	5.25	9.99	27.90	616.60	33.00	-5.10	1/49
		2592.99	22.55	H	5.34	9.91	27.13	516.42	33.00	-5.87	1/49
		2679.99	21.12	H	5.43	9.87	25.56	359.75	33.00	-7.44	1/1
15	QPSK	2503.50	23.71	H	5.24	9.99	28.46	701.46	33.00	-4.54	1/19
		2592.99	23.52	H	5.34	9.91	28.10	645.65	33.00	-4.90	1/19
		2682.48	21.82	H	5.43	9.87	26.26	422.67	33.00	-6.74	1/1
	16-QAM	2503.50	23.06	H	5.24	9.99	27.81	603.95	33.00	-5.19	1/1
		2592.99	22.68	H	5.34	9.91	27.26	532.11	33.00	-5.74	1/19
		2682.48	21.05	H	5.43	9.87	25.49	354.00	33.00	-7.51	1/19
10	QPSK	2501.01	23.82	H	5.24	10.00	28.58	721.11	33.00	-4.42	1/22
		2592.99	22.97	H	5.34	9.91	27.55	568.85	33.00	-5.45	1/12
		2685.00	21.88	H	5.43	9.87	26.32	428.55	33.00	-6.68	1/22
	16-QAM	2501.01	23.00	H	5.24	10.00	27.76	597.04	33.00	-5.24	1/12
		2592.99	22.01	H	5.34	9.91	26.59	456.04	33.00	-6.41	1/22
		2685.00	21.05	H	5.43	9.87	25.49	354.00	33.00	-7.51	1/12

NR Band n66 (ANT A)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	1730.00	20.02	H	4.33	9.59	25.29	338.06	30.00	-4.71	1/1
		1745.00	20.12	H	4.35	9.66	25.43	349.14	30.00	-4.57	1/108
		1760.00	19.83	H	4.37	9.68	25.14	326.59	30.00	-4.86	1/1
	16-QAM	1730.00	18.84	H	4.33	9.59	24.11	257.63	30.00	-5.89	1/108
		1745.00	18.98	H	4.35	9.66	24.29	268.53	30.00	-5.71	1/1
		1760.00	18.85	H	4.37	9.68	24.16	260.62	30.00	-5.84	1/1
30	QPSK	1725.00	20.22	H	4.32	9.57	25.47	352.37	30.00	-4.53	1/80
		1745.00	20.02	H	4.35	9.66	25.33	341.19	30.00	-4.67	1/1
		1765.00	19.39	H	4.37	9.68	24.70	295.12	30.00	-5.30	1/80
	16-QAM	1725.00	19.07	H	4.32	9.57	24.32	270.40	30.00	-5.68	1/80
		1745.00	19.11	H	4.35	9.66	24.42	276.69	30.00	-5.58	1/1
		1765.00	18.57	H	4.37	9.68	23.88	244.34	30.00	-6.12	1/80
25	QPSK	1722.50	20.30	H	4.32	9.56	25.54	358.10	30.00	-4.46	1/131
		1745.00	20.27	H	4.35	9.66	25.58	361.41	30.00	-4.42	1/1
		1767.50	18.36	H	4.38	9.68	23.67	232.61	30.00	-6.33	1/67
	16-QAM	1722.50	19.57	H	4.32	9.56	24.81	302.69	30.00	-5.19	1/131
		1745.00	19.43	H	4.35	9.66	24.74	297.85	30.00	-5.26	1/1
		1767.50	17.68	H	4.38	9.68	22.99	199.07	30.00	-7.01	1/1
20	QPSK	1720.00	20.04	H	4.32	9.55	25.27	336.51	30.00	-4.73	1/104
		1745.00	20.20	H	4.35	9.66	25.51	355.63	30.00	-4.49	1/1
		1770.00	18.45	H	4.38	9.68	23.76	237.68	30.00	-6.24	1/53
	16-QAM	1720.00	18.84	H	4.32	9.55	24.07	255.27	30.00	-5.93	1/104
		1745.00	19.07	H	4.35	9.66	24.38	274.16	30.00	-5.62	1/1
		1770.00	17.50	H	4.38	9.68	22.81	190.99	30.00	-7.19	1/53
15	QPSK	1717.50	20.08	H	4.31	9.53	25.30	338.84	30.00	-4.70	1/77
		1745.00	19.68	H	4.35	9.66	24.99	315.50	30.00	-5.01	1/1
		1772.50	18.32	H	4.38	9.68	23.62	230.14	30.00	-6.38	1/1
	16-QAM	1717.50	18.99	H	4.31	9.53	24.21	263.63	30.00	-5.79	1/77
		1745.00	18.62	H	4.35	9.66	23.93	247.17	30.00	-6.07	1/1
		1772.50	17.17	H	4.38	9.68	22.47	176.60	30.00	-7.53	1/1
10	QPSK	1715.00	20.06	H	4.31	9.52	25.27	336.51	30.00	-4.73	1/50
		1745.00	19.71	H	4.35	9.66	25.02	317.69	30.00	-4.98	1/1
		1775.00	18.38	H	4.38	9.68	23.68	233.35	30.00	-6.32	1/1
	16-QAM	1715.00	19.09	H	4.31	9.52	24.30	269.15	30.00	-5.70	1/50
		1745.00	18.53	H	4.35	9.66	23.84	242.10	30.00	-6.16	1/1
		1775.00	17.41	H	4.38	9.68	22.71	186.64	30.00	-7.29	1/1
5	QPSK	1712.50	19.97	H	4.31	9.51	25.18	329.61	30.00	-4.82	1/23
		1745.00	19.54	H	4.35	9.66	24.85	305.49	30.00	-5.15	1/1
		1777.50	18.46	H	4.39	9.68	23.76	237.68	30.00	-6.24	1/1
	16-QAM	1712.50	19.10	H	4.31	9.51	24.31	269.77	30.00	-5.69	1/23
		1745.00	18.56	H	4.35	9.66	23.87	243.78	30.00	-6.13	1/1
		1777.50	17.39	H	4.39	9.68	22.69	185.78	30.00	-7.31	1/1

NR Band n66 (ANT B)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
40	QPSK	1730.00	11.87	V	4.33	9.59	17.13	51.64	30.00	-12.87	1/108
		1745.00	12.63	V	4.35	9.66	17.94	62.23	30.00	-12.06	1/1
		1760.00	13.32	V	4.37	9.68	18.64	73.11	30.00	-11.36	1/1
	16-QAM	1730.00	10.86	V	4.33	9.59	16.12	40.93	30.00	-13.88	1/108
		1745.00	11.48	V	4.35	9.66	16.79	47.75	30.00	-13.21	1/1
		1760.00	12.10	V	4.37	9.68	17.42	55.21	30.00	-12.58	1/1
30	QPSK	1725.00	11.09	V	4.32	9.57	16.34	43.05	30.00	-13.66	1/80
		1745.00	12.19	V	4.35	9.66	17.50	56.23	30.00	-12.50	1/1
		1765.00	13.09	V	4.37	9.68	18.40	69.18	30.00	-11.60	1/80
	16-QAM	1725.00	10.09	V	4.32	9.57	15.34	34.20	30.00	-14.66	1/80
		1745.00	11.20	V	4.35	9.66	16.51	44.77	30.00	-13.49	1/1
		1765.00	11.76	V	4.37	9.68	17.07	50.93	30.00	-12.93	1/80
25	QPSK	1722.50	11.94	V	4.32	9.56	17.18	52.24	30.00	-12.82	1/131
		1745.00	13.00	V	4.35	9.66	18.31	67.76	30.00	-11.69	1/1
		1767.50	13.83	V	4.38	9.68	19.14	82.04	30.00	-10.86	1/1
	16-QAM	1722.50	11.02	V	4.32	9.56	16.26	42.27	30.00	-13.74	1/131
		1745.00	12.01	V	4.35	9.66	17.32	53.95	30.00	-12.68	1/1
		1767.50	12.39	V	4.38	9.68	17.70	58.88	30.00	-12.30	1/1
20	QPSK	1720.00	11.88	V	4.32	9.55	17.11	51.40	30.00	-12.89	1/104
		1745.00	13.06	V	4.35	9.66	18.37	68.71	30.00	-11.63	1/1
		1770.00	13.84	V	4.38	9.68	19.15	82.22	30.00	-10.85	1/53
	16-QAM	1720.00	10.93	V	4.32	9.55	16.16	41.30	30.00	-13.84	1/104
		1745.00	12.08	V	4.35	9.66	17.39	54.83	30.00	-12.61	1/1
		1770.00	12.55	V	4.38	9.68	17.86	61.09	30.00	-12.14	1/53
15	QPSK	1717.50	11.90	V	4.31	9.53	17.12	51.52	30.00	-12.88	1/77
		1745.00	12.97	V	4.35	9.66	18.28	67.30	30.00	-11.72	1/1
		1772.50	13.83	V	4.38	9.68	19.13	81.85	30.00	-10.87	1/1
	16-QAM	1717.50	10.90	V	4.31	9.53	16.12	40.93	30.00	-13.88	1/77
		1745.00	11.96	V	4.35	9.66	17.27	53.33	30.00	-12.73	1/1
		1772.50	12.48	V	4.38	9.68	17.78	59.98	30.00	-12.22	1/1
10	QPSK	1715.00	11.86	V	4.31	9.52	17.07	50.93	30.00	-12.93	1/50
		1745.00	12.91	V	4.35	9.66	18.22	66.37	30.00	-11.78	1/1
		1775.00	13.81	V	4.38	9.68	19.11	81.47	30.00	-10.89	1/1
	16-QAM	1715.00	10.96	V	4.31	9.52	16.17	41.40	30.00	-13.83	1/1
		1745.00	11.94	V	4.35	9.66	17.25	53.09	30.00	-12.75	1/1
		1775.00	12.52	V	4.38	9.68	17.82	60.53	30.00	-12.18	1/26
5	QPSK	1712.50	11.69	V	4.31	9.51	16.89	48.87	30.00	-13.11	1/1
		1745.00	12.85	V	4.35	9.66	18.16	65.46	30.00	-11.84	1/1
		1777.50	13.82	V	4.39	9.68	19.11	81.47	30.00	-10.89	1/1
	16-QAM	1712.50	10.88	V	4.31	9.51	16.08	40.55	30.00	-13.92	1/23
		1745.00	11.76	V	4.35	9.66	17.07	50.93	30.00	-12.93	1/1
		1777.50	12.56	V	4.39	9.68	17.85	60.95	30.00	-12.15	1/1

NR Band n70

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
15	QPSK	1702.50	21.29	H	4.30	9.47	26.46	442.59	30.00	-3.54	1/77
	16-QAM	1702.50	20.16	H	4.30	9.47	25.33	341.19	30.00	-4.67	1/1
10	QPSK	1700.00	21.30	H	4.30	9.45	26.46	442.59	30.00	-3.54	1/1
		1702.50	21.35	H	4.30	9.47	26.51	447.71	30.00	-3.49	1/50
		1705.00	21.46	H	4.30	9.48	26.64	461.32	30.00	-3.36	1/50
	16-QAM	1700.00	20.36	H	4.30	9.45	25.52	356.45	30.00	-4.48	1/1
		1702.50	20.45	H	4.30	9.47	25.62	364.75	30.00	-4.38	1/50
		1705.00	20.73	H	4.30	9.48	25.91	389.94	30.00	-4.09	1/50
5	QPSK	1697.50	20.91	H	4.29	9.44	26.06	403.65	30.00	-3.94	1/1
		1702.50	21.56	H	4.30	9.47	26.73	470.98	30.00	-3.27	1/1
		1707.50	21.38	H	4.30	9.49	26.56	452.90	30.00	-3.44	1/23
	16-QAM	1697.50	19.85	H	4.29	9.44	25.00	316.23	30.00	-5.00	1/1
		1702.50	20.54	H	4.30	9.47	25.70	371.54	30.00	-4.30	1/23
		1707.50	20.21	H	4.30	9.49	25.40	346.74	30.00	-4.60	1/23

NR Band n71

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
20	QPSK	673.00	23.06	H	2.73	-1.43	18.90	77.62	34.77	-15.87	1/53
		680.50	23.27	H	2.74	-1.41	19.12	81.66	34.77	-15.65	1/53
		688.00	23.03	H	2.76	-1.39	18.88	77.27	34.77	-15.89	1/1
	16-QAM	673.00	21.84	H	2.73	-1.43	17.68	58.61	34.77	-17.09	1/53
		680.50	22.00	H	2.74	-1.41	17.85	60.95	34.77	-16.92	1/53
		688.00	21.98	H	2.76	-1.39	17.83	60.67	34.77	-16.94	1/1
15	QPSK	670.50	22.89	H	2.72	-1.44	18.73	74.64	34.77	-16.04	1/77
		680.50	23.18	H	2.74	-1.41	19.03	79.98	34.77	-15.74	1/77
		690.50	23.18	H	2.76	-1.38	19.04	80.17	34.77	-15.73	1/77
	16-QAM	670.50	21.47	H	2.72	-1.44	17.31	53.83	34.77	-17.46	1/77
		680.50	21.94	H	2.74	-1.41	17.79	60.12	34.77	-16.98	1/77
		690.50	22.21	H	2.76	-1.38	18.07	64.12	34.77	-16.70	1/77
10	QPSK	668.00	22.84	H	2.72	-1.45	18.68	73.79	34.77	-16.09	1/26
		680.50	23.44	H	2.74	-1.41	19.29	84.92	34.77	-15.48	1/26
		693.00	23.54	H	2.77	-1.37	19.40	87.10	34.77	-15.37	1/26
	16-QAM	668.00	21.38	H	2.72	-1.45	17.22	52.72	34.77	-17.55	1/26
		680.50	22.10	H	2.74	-1.41	17.95	62.37	34.77	-16.82	1/26
		693.00	22.55	H	2.77	-1.37	18.41	69.34	34.77	-16.36	1/26
5	QPSK	665.50	22.55	H	2.71	-1.45	18.39	69.02	34.77	-16.38	1/23
		680.50	24.05	H	2.74	-1.41	19.90	97.72	34.77	-14.87	1/23
		695.50	23.27	H	2.77	-1.36	19.14	82.04	34.77	-15.63	1/1
	16-QAM	665.50	21.41	H	2.71	-1.45	17.25	53.09	34.77	-17.52	1/23
		680.50	22.64	H	2.74	-1.41	18.49	70.63	34.77	-16.28	1/23
		695.50	22.06	H	2.77	-1.36	17.93	62.09	34.77	-16.84	1/23

NR Band n77(PC2, 3450-3550 MHz)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	3499.98	20.44	H	6.21	10.67	24.90	309.03	30.00	-5.10	1/137
	16-QAM	3499.98	19.67	H	6.21	10.67	24.13	258.82	30.00	-5.87	1/137
90	QSK	3495.00	20.66	H	6.21	10.66	25.11	324.34	30.00	-4.89	1/123
		3499.98	20.70	H	6.21	10.67	25.16	328.10	30.00	-4.84	1/123
		3504.99	20.35	H	6.21	10.68	24.82	303.39	30.00	-5.18	1/123
		3495.00	19.71	H	6.21	10.66	24.16	260.62	30.00	-5.84	1/123
	16-QAM	3499.98	19.74	H	6.21	10.67	24.20	263.03	30.00	-5.80	1/123
		3504.99	19.43	H	6.21	10.68	23.90	245.47	30.00	-6.10	1/123
80	QPSK	3490.02	20.84	H	6.20	10.66	25.30	338.84	30.00	-4.70	1/109
		3499.98	20.63	H	6.21	10.67	25.09	322.85	30.00	-4.91	1/109
		3510.00	20.44	H	6.22	10.69	24.90	309.03	30.00	-5.10	1/109
	16-QAM	3490.02	19.91	H	6.20	10.66	24.37	273.53	30.00	-5.63	1/215
		3499.98	19.73	H	6.21	10.67	24.19	262.42	30.00	-5.81	1/109
		3510.00	19.47	H	6.22	10.69	23.93	247.17	30.00	-6.07	1/109
70	QPSK	3485.01	20.90	H	6.20	10.65	25.35	342.77	30.00	-4.65	1/187
		3499.98	20.31	H	6.21	10.67	24.77	299.92	30.00	-5.23	1/95
		3514.98	20.40	H	6.22	10.70	24.87	306.90	30.00	-5.13	1/95
	16-QAM	3485.01	19.93	H	6.20	10.65	24.38	274.16	30.00	-5.62	1/95
		3499.98	19.33	H	6.21	10.67	23.79	239.33	30.00	-6.21	1/187
		3514.98	19.38	H	6.22	10.70	23.85	242.66	30.00	-6.15	1/95
60	QPSK	3480.00	20.69	H	6.19	10.65	25.15	327.34	30.00	-4.85	1/81
		3499.98	20.35	H	6.21	10.67	24.81	302.69	30.00	-5.19	1/81
		3519.99	20.24	H	6.23	10.71	24.72	296.48	30.00	-5.28	1/81
	16-QAM	3480.00	19.68	H	6.19	10.65	24.14	259.42	30.00	-5.86	1/81
		3499.98	19.44	H	6.21	10.67	23.90	245.47	30.00	-6.10	1/160
		3514.98	19.29	H	6.23	10.71	23.77	238.23	30.00	-6.23	1/1
50	QPSK	3475.02	20.76	H	6.18	10.64	25.22	332.66	30.00	-4.78	1/131
		3499.98	20.52	H	6.21	10.67	24.98	314.77	30.00	-5.02	1/67
		3525.00	20.18	H	6.23	10.71	24.66	292.42	30.00	-5.34	1/67
	16-QAM	3475.02	19.93	H	6.18	10.64	24.39	274.79	30.00	-5.61	1/131
		3499.98	19.68	H	6.21	10.67	24.14	259.42	30.00	-5.86	1/1
		3525.00	19.41	H	6.23	10.71	23.89	244.91	30.00	-6.11	1/67
40	QPSK	3470.01	20.88	H	6.18	10.63	25.33	341.19	30.00	-4.67	1/104
		3499.98	20.34	H	6.21	10.67	24.80	302.00	30.00	-5.20	1/1
		3529.98	20.25	H	6.23	10.72	24.73	297.17	30.00	-5.27	1/1
	16-QAM	3470.01	20.10	H	6.18	10.63	24.55	286.10	30.00	-5.45	1/104
		3499.98	19.49	H	6.21	10.67	23.95	248.31	30.00	-6.05	1/1
		3529.98	19.34	H	6.23	10.72	23.82	240.99	30.00	-6.18	1/53
30	QPSK	3465.00	21.02	H	6.17	10.63	25.47	352.37	30.00	-4.53	1/76
		3499.98	20.52	H	6.21	10.67	24.98	314.77	30.00	-5.02	1/39
		3535.02	20.71	H	6.24	10.73	25.20	331.13	30.00	-4.80	1/39
	16-QAM	3465.00	20.07	H	6.17	10.63	24.52	283.14	30.00	-5.48	1/76
		3499.98	19.48	H	6.21	10.67	23.94	247.74	30.00	-6.06	1/76
		3535.02	19.84	H	6.24	10.73	24.33	271.02	30.00	-5.67	1/39
25	QPSK	3462.51	21.01	H	6.17	10.62	25.47	352.37	30.00	-4.53	1/63
		3499.98	20.47	H	6.21	10.67	24.93	311.17	30.00	-5.07	1/32
		3537.48	20.25	H	6.24	10.74	24.75	298.54	30.00	-5.25	1/32
	16-QAM	3462.51	20.15	H	6.17	10.62	24.61	289.07	30.00	-5.39	1/63
		3499.98	19.59	H	6.21	10.67	24.05	254.10	30.00	-5.95	1/63
		3537.48	19.50	H	6.24	10.74	24.00	251.19	30.00	-6.00	1/32
20	QPSK	3460.02	20.76	H	6.17	10.62	25.21	331.89	30.00	-4.79	1/49
		3499.98	20.41	H	6.21	10.67	24.87	306.90	30.00	-5.13	1/49
		3540.00	20.95	H	6.24	10.74	25.45	350.75	30.00	-4.55	1/1
	16-QAM	3460.02	19.89	H	6.17	10.62	24.34	271.64	30.00	-5.66	1/49
		3499.98	19.42	H	6.21	10.67	23.88	244.34	30.00	-6.12	1/1
		3540.00	19.92	H	6.24	10.74	24.42	276.69	30.00	-5.58	1/1
15	QPSK	3457.50	21.14	H	6.17	10.62	25.59	362.24	30.00	-4.41	1/36
		3499.98	20.41	H	6.21	10.67	24.87	306.90	30.00	-5.13	1/19
		3542.49	20.95	H	6.24	10.75	25.46	351.56	30.00	-4.54	1/1
	16-QAM	3457.50	20.32	H	6.17	10.62	24.77	299.92	30.00	-5.23	1/36
		3499.98	19.57	H	6.21	10.67	24.03	252.93	30.00	-5.97	1/1
		3542.49	19.96	H	6.24	10.75	24.47	279.90	30.00	-5.53	1/1
10	QPSK	3455.01	21.07	H	6.16	10.61	25.52	356.45	30.00	-4.48	1/22
		3499.98	20.30	H	6.21	10.67	24.76	299.23	30.00	-5.24	1/1
		3544.98	20.83	H	6.24	10.75	25.33	341.19	30.00	-4.67	1/1
	16-QAM	3455.01	20.21	H	6.16	10.61	24.66	292.42	30.00	-5.34	1/1
		3499.98	19.44	H	6.21	10.67	23.90	245.47	30.00	-6.10	1/1
		3544.98	19.97	H	6.24	10.75	24.47	279.90	30.00	-5.53	1/12

NR Band n77 (PC2, 3450-3550 MHz, SRS1, ANT G)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
25	3462.51	18.88	H	6.17	10.62	23.33	215.28	30.00	-6.67
	3499.98	18.57	H	6.21	10.67	23.04	201.37	30.00	-6.96
	3537.48	18.86	H	6.24	10.74	23.36	216.77	30.00	-6.64

NR Band n77 (PC2, 3450-3550 MHz, SRS2, ANT D)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
25	3462.51	11.28	H	6.17	10.62	15.74	37.50	30.00	-14.26
	3499.98	12.06	H	6.21	10.67	16.52	44.87	30.00	-13.48
	3537.48	12.38	H	6.24	10.74	16.88	48.75	30.00	-13.12

NR Band n77 (PC2, 3450-3550 MHz, SRS3, ANT F)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3460.02	12.85	H	6.17	10.62	17.30	53.70	30.00	-12.70
	3499.98	12.70	H	6.21	10.67	17.16	52.00	30.00	-12.84
	3540.00	12.94	H	6.24	10.74	17.44	55.46	30.00	-12.56

NR Band n77 (PC2, 3700-3980 MHz)

BW (MHz)	Modulation	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
100	QPSK	3750.00	21.86	H	6.43	10.69	26.13	410.20	30.00	-3.87	1/1
		3840.00	23.08	H	6.50	10.58	27.15	518.80	30.00	-2.85	1/137
		3930.00	23.66	H	6.58	10.48	27.56	570.16	30.00	-2.44	1/271
	16-QAM	3750.00	20.98	H	6.43	10.69	25.24	334.20	30.00	-4.76	1/1
		3840.00	22.09	H	6.50	10.58	26.17	414.00	30.00	-3.83	1/137
		3930.00	22.73	H	6.58	10.48	26.63	460.26	30.00	-3.37	1/271
90	QPSK	3745.02	21.73	H	6.43	10.70	26.00	398.11	30.00	-4.00	1/1
		3840.00	23.60	H	6.50	10.58	27.68	586.14	30.00	-2.32	1/123
		3934.98	23.96	H	6.59	10.48	27.85	609.54	30.00	-2.15	1/123
	16-QAM	3745.02	20.75	H	6.43	10.70	25.02	317.69	30.00	-4.98	1/1
		3840.00	22.63	H	6.50	10.58	26.71	468.81	30.00	-3.29	1/243
		3934.98	23.10	H	6.59	10.48	26.99	500.03	30.00	-3.01	1/243
80	QPSK	3740.01	21.53	H	6.42	10.70	25.82	381.94	30.00	-4.18	1/109
		3840.00	23.47	H	6.50	10.58	27.54	567.54	30.00	-2.46	1/109
		3939.99	23.94	H	6.59	10.47	27.82	605.34	30.00	-2.18	1/215
	16-QAM	3740.01	20.68	H	6.42	10.70	24.97	314.05	30.00	-5.03	1/109
		3840.00	22.60	H	6.50	10.58	26.67	464.52	30.00	-3.33	1/109
		3939.99	23.26	H	6.59	10.47	27.14	517.61	30.00	-2.86	1/1
70	QPSK	3735.00	21.66	H	6.41	10.71	25.96	394.46	30.00	-4.04	1/95
		3840.00	23.01	H	6.50	10.58	27.08	510.50	30.00	-2.92	1/95
		3945.00	23.67	H	6.60	10.47	27.54	567.54	30.00	-2.46	1/187
	16-QAM	3735.00	20.82	H	6.41	10.71	25.12	325.09	30.00	-4.88	1/1
		3840.00	22.17	H	6.50	10.58	26.25	421.70	30.00	-3.75	1/187
		3945.00	22.90	H	6.60	10.47	26.78	476.43	30.00	-3.22	1/95
60	QPSK	3730.02	21.97	H	6.41	10.72	26.27	423.64	30.00	-3.73	1/81
		3840.00	23.82	H	6.50	10.58	27.89	615.18	30.00	-2.11	1/81
		3949.98	24.05	H	6.60	10.47	27.92	619.44	30.00	-2.08	1/160
	16-QAM	3730.02	20.99	H	6.41	10.72	25.29	338.06	30.00	-4.71	1/81
		3840.00	22.96	H	6.50	10.58	27.03	504.66	30.00	-2.97	1/160
		3949.98	23.11	H	6.60	10.47	26.98	498.88	30.00	-3.02	1/160
50	QPSK	3725.01	20.81	H	6.41	10.72	25.13	325.84	30.00	-4.87	1/67
		3840.00	23.10	H	6.50	10.58	27.17	521.19	30.00	-2.83	1/67
		3954.99	23.90	H	6.60	10.47	27.76	597.04	30.00	-2.24	1/67
	16-QAM	3725.01	19.91	H	6.41	10.72	24.23	264.85	30.00	-5.77	1/131
		3840.00	22.24	H	6.50	10.58	26.31	427.56	30.00	-3.69	1/131
		3954.99	23.00	H	6.60	10.47	26.86	485.29	30.00	-3.14	1/1
40	QPSK	3720.02	22.00	H	6.40	10.73	26.32	428.55	30.00	-3.68	1/53
		3840.00	23.31	H	6.50	10.58	27.38	547.02	30.00	-2.62	1/53
		3960.00	23.98	H	6.60	10.47	27.84	608.14	30.00	-2.16	1/53
	16-QAM	3720.02	21.28	H	6.40	10.73	25.60	363.08	30.00	-4.40	1/104
		3840.00	22.35	H	6.50	10.58	26.42	438.53	30.00	-3.58	1/53
		3960.00	23.22	H	6.60	10.47	27.08	510.50	30.00	-2.92	1/104
30	QPSK	3715.02	22.25	H	6.40	10.73	26.58	454.99	30.00	-3.42	1/39
		3840.00	22.92	H	6.50	10.58	26.99	500.03	30.00	-3.01	1/39
		3964.98	24.03	H	6.61	10.46	27.88	613.76	30.00	-2.12	1/1
	16-QAM	3715.02	21.43	H	6.40	10.73	25.76	376.70	30.00	-4.24	1/76
		3840.00	22.05	H	6.50	10.58	26.12	409.26	30.00	-3.88	1/76
		3964.98	23.05	H	6.61	10.46	26.90	489.78	30.00	-3.10	1/76
25	QPSK	3712.50	22.02	H	6.40	10.74	26.36	432.51	30.00	-3.64	1/63
		3840.00	22.57	H	6.50	10.58	26.64	461.32	30.00	-3.36	1/32
		3967.50	24.30	H	6.61	10.46	28.15	653.13	30.00	-1.85	1/63
	16-QAM	3710.01	21.13	H	6.40	10.74	25.47	352.37	30.00	-4.53	1/63
		3840.00	21.72	H	6.50	10.58	25.79	379.31	30.00	-4.21	1/63
		3969.99	23.39	H	6.61	10.46	27.24	529.66	30.00	-2.76	1/1
20	QPSK	3710.01	21.75	H	6.39	10.74	26.10	407.38	30.00	-3.90	1/26
		3840.00	22.87	H	6.50	10.58	26.94	494.31	30.00	-3.06	1/1
		3969.99	24.29	H	6.61	10.46	28.14	651.63	30.00	-1.86	1/1
	16-QAM	3710.01	20.75	H	6.39	10.74	25.09	322.85	30.00	-4.91	1/26
		3840.00	22.05	H	6.50	10.58	26.12	409.26	30.00	-3.88	1/49
		3969.99	23.42	H	6.61	10.46	27.27	533.33	30.00	-2.73	1/1
15	QPSK	3707.52	22.27	H	6.39	10.74	26.62	459.20	30.00	-3.39	1/1
		3840.00	22.68	H	6.50	10.58	26.75	473.15	30.00	-3.25	1/19
		3972.48	24.31	H	6.62	10.46	28.16	654.64	30.00	-1.84	1/1
	16-QAM	3707.52	21.27	H	6.39	10.74	25.62	364.75	30.00	-4.38	1/36
		3840.00	21.83	H	6.50	10.58	25.90	389.05	30.00	-4.10	1/36
		3972.48	23.30	H	6.62	10.46	27.15	518.80	30.00	-2.85	1/36
10	QPSK	3705.00	22.14	H	6.39	10.74	26.50	446.68	30.00	-3.50	1/22
		3840.00	22.68	H	6.50	10.58	26.75	473.15	30.00	-3.25	1/1
		3975.00	24.42	H	6.62	10.46	28.25	668.34	30.00	-1.75	1/22
	16-QAM	3705.00	21.37	H	6.39	10.74	25.73	374.11	30.00	-4.27	1/12
		3840.00	21.84	H	6.50	10.58	25.91	389.94	30.00	-4.09	1/22
		3975.00	23.48	H	6.62	10.46	27.31	538.27	30.00	-2.69	1/12

NR Band n77 (PC2, 3700-3980 MHz, SRS1, ANT G)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
40	3720.02	14.95	H	6.40	10.73	19.27	84.53	30.00	-10.73
	3840.00	13.84	H	6.50	10.58	17.91	61.80	30.00	-12.09
	3960.00	14.14	V	6.60	10.47	18.00	63.10	30.00	-12.00

NR Band n77 (PC2, 3700-3980 MHz, SRS2, ANT D)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
15	3707.50	13.85	V	6.39	10.74	18.20	66.07	30.00	-11.80
	3840.00	12.21	H	6.50	10.58	16.28	42.46	30.00	-13.72
	3972.50	10.92	H	6.62	10.46	14.77	29.99	30.00	-15.23

NR Band n77 (PC2, 3700-3980 MHz, SRS3, ANT F)

BW (MHz)	Frequency (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
90	3745.02	14.56	H	6.43	10.70	18.84	76.56	30.00	-11.16
	3840.00	9.64	H	6.50	10.58	13.71	23.50	30.00	-16.29
	3934.98	8.72	H	6.59	10.48	12.61	18.24	30.00	-17.39

9.2. RADIATED SPURIOUS EMISSION

RULE PART(S)

FCC: §2.1053, §27. 53

LIMIT

§27.53:

- (a) (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.
- (c)(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.
- (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.
- (h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.
- (m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

(l)(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(n)(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points $\geq$ span/RBW;
- g) Trace Mode = average(WCDMA, LTE FDD, 5G NR FDD), Maxhold(LTE TDD, 5G NR TDD);

NOTE1

UMTS: It was tested at REL 99 as worst case (the highest output power and density).

LTE: It was tested at 1RB QPSK as worst case (the highest output power and density).

5G NR: All Waveforms (CP-OFDM vs DFT-s_OFDM) and modulations ($\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All Modes of operation were investigated and the worst case configuration results are reported in this section.

NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

RESULTS

See the following pages.

9.2.1. SPURIOUS RADIATION RESULT

WCDMA Band 4

REL99	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4791440365 Date: 2024-09-03 Test Engineer: 24542 Configuration: EUT / AC Adapter, X-Position Location: Chamber 2 Mode: Rel99 Band 4 Harmonics Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.4MHz									
	3424.80	-8.7	V	3.0	42.2	1.0	-49.9	-13.0	-36.9	
	5137.20	-9.1	V	3.0	42.9	1.0	-51.1	-13.0	-38.1	
	6849.60	-5.8	V	3.0	42.9	1.0	-47.7	-13.0	-34.7	
	3424.80	-8.4	H	3.0	42.2	1.0	-49.6	-13.0	-36.6	
	5137.20	-9.2	H	3.0	42.9	1.0	-51.1	-13.0	-38.1	
	6849.60	-6.3	H	3.0	42.9	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1732.6MHz									
	3465.20	-8.3	V	3.0	42.2	1.0	-49.5	-13.0	-36.5	
	5197.80	-8.8	V	3.0	43.0	1.0	-50.8	-13.0	-37.8	
	6930.40	-5.9	V	3.0	42.9	1.0	-47.8	-13.0	-34.8	
	3465.20	-8.1	H	3.0	42.2	1.0	-49.3	-13.0	-36.3	
	5197.80	-8.9	H	3.0	43.0	1.0	-50.8	-13.0	-37.8	
	6930.40	-6.3	H	3.0	42.9	1.0	-48.2	-13.0	-35.2	
	High Ch, 1752.6MHz									
	3505.20	-8.2	V	3.0	42.2	1.0	-49.4	-13.0	-36.4	
	5257.80	-8.8	V	3.0	43.0	1.0	-50.8	-13.0	-37.8	
	7010.40	-5.5	V	3.0	42.8	1.0	-47.4	-13.0	-34.4	
	3505.20	-7.9	H	3.0	42.2	1.0	-49.1	-13.0	-36.1	
	5257.80	-8.9	H	3.0	43.0	1.0	-50.9	-13.0	-37.9	
	7010.40	-6.1	H	3.0	42.8	1.0	-47.9	-13.0	-34.9	

LTE Band 7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791440365							
Date:		2024-09-03							
Test Engineer:		28775							
Configuration:		EUT / Y-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth							
Test Votage:		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5MHz									
5015.00	-17.4	V	3.0	44.8	1.0	-61.1	-25.0	-36.1	
7522.50	-14.9	V	3.0	44.9	1.0	-58.8	-25.0	-33.8	
10030.00	-13.2	V	3.0	43.6	1.0	-55.8	-25.0	-30.8	
5015.00	-16.9	H	3.0	44.8	1.0	-60.6	-25.0	-35.6	
7522.50	-14.8	H	3.0	44.9	1.0	-58.8	-25.0	-33.8	
10030.00	-13.4	H	3.0	43.6	1.0	-56.0	-25.0	-31.0	
Mid Ch, 2535MHz									
5070.00	-16.3	V	3.0	44.8	1.0	-60.1	-25.0	-35.1	
7605.00	-14.8	V	3.0	44.9	1.0	-58.7	-25.0	-33.7	
10140.00	-13.3	V	3.0	43.6	1.0	-55.9	-25.0	-30.9	
5070.00	-15.2	H	3.0	44.8	1.0	-59.0	-25.0	-34.0	
7605.00	-14.6	H	3.0	44.9	1.0	-58.5	-25.0	-33.5	
10140.00	-13.2	H	3.0	43.6	1.0	-55.8	-25.0	-30.8	
High Ch, 2562.5MHz									
5125.00	-17.1	V	3.0	44.8	1.0	-60.9	-25.0	-35.9	
7687.50	-14.7	V	3.0	44.9	1.0	-58.6	-25.0	-33.6	
10250.00	-13.3	V	3.0	43.6	1.0	-55.9	-25.0	-30.9	
5125.00	-13.6	H	3.0	44.8	1.0	-57.4	-25.0	-32.4	
7687.50	-15.2	H	3.0	44.9	1.0	-59.1	-25.0	-34.1	
10250.00	-13.1	H	3.0	43.6	1.0	-55.7	-25.0	-30.7	

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791440365							
Date:		2024-08-29							
Test Engineer:		26087							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 2							
Mode:		LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth							
Test Votage:		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 704MHz									
1408.00	-16.1	V	3.0	41.9	1.0	-57.0	-13.0	-44.0	
2112.00	-12.8	V	3.0	42.1	1.0	-53.8	-13.0	-40.8	
2816.00	-10.5	V	3.0	42.6	1.0	-52.1	-13.0	-39.1	
1408.00	-17.1	H	3.0	41.9	1.0	-58.0	-13.0	-45.0	
2112.00	-13.3	H	3.0	42.1	1.0	-54.4	-13.0	-41.4	
2816.00	-9.9	H	3.0	42.6	1.0	-51.5	-13.0	-38.5	
Mid Ch, 707.5MHz									
1415.00	-15.8	V	3.0	41.9	1.0	-56.8	-13.0	-43.8	
2122.50	-12.8	V	3.0	42.1	1.0	-53.8	-13.0	-40.8	
2830.00	-10.5	V	3.0	42.6	1.0	-52.1	-13.0	-39.1	
1415.00	-17.0	H	3.0	41.9	1.0	-58.0	-13.0	-45.0	
2122.50	-13.3	H	3.0	42.1	1.0	-54.3	-13.0	-41.3	
2830.00	-9.9	H	3.0	42.6	1.0	-51.5	-13.0	-38.5	
High Ch, 711MHz									
1422.00	-15.7	V	3.0	41.9	1.0	-56.7	-13.0	-43.7	
2133.00	-12.8	V	3.0	42.1	1.0	-53.9	-13.0	-40.9	
2844.00	-10.5	V	3.0	42.6	1.0	-52.1	-13.0	-39.1	
1422.00	-16.9	H	3.0	41.9	1.0	-57.9	-13.0	-44.9	
2133.00	-13.3	H	3.0	42.1	1.0	-54.4	-13.0	-41.4	
2844.00	-9.8	H	3.0	42.6	1.0	-51.5	-13.0	-38.5	

LTE Band 13

10 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791440365 Date: 2024-08-29 Test Engineer: 26087 Configuration: EUT / AC Adapter, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, 782MHz									
	1564.00	-15.1	V	3.0	42.0	1.0	-56.0	-40.0	-16.0	
	2346.00	-12.0	V	3.0	42.2	1.0	-53.3	-13.0	-40.3	
	3128.00	-9.0	V	3.0	42.8	1.0	-50.9	-13.0	-37.9	
	1564.00	-16.1	H	3.0	42.0	1.0	-57.1	-40.0	-17.1	
	2346.00	-12.1	H	3.0	42.2	1.0	-53.3	-13.0	-40.3	
	3128.00	-8.3	H	3.0	42.8	1.0	-50.1	-13.0	-37.1	

LTE Band 30

10 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4791440365 Date: 2024-09-03 Test Engineer: 26087 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 2 Mode: LTE_QPSK Band 30 Harmonics, 10MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, 2310MHz									
	4620.00	-16.4	V	3.0	43.2	1.0	-58.7	-40.0	-18.7	
	6930.00	-20.4	V	3.0	43.3	1.0	-62.7	-40.0	-22.7	
	9240.00	-6.0	V	3.0	42.0	1.0	-47.0	-40.0	-7.0	
	11550.00	-20.2	V	3.0	40.3	1.0	-59.4	-40.0	-19.4	
	13860.00	-19.0	V	3.0	40.0	1.0	-58.0	-40.0	-18.0	
	4620.00	-18.8	H	3.0	43.2	1.0	-61.0	-40.0	-21.0	
	6930.00	-20.5	H	3.0	43.3	1.0	-62.8	-40.0	-22.8	
	9240.00	-4.2	H	3.0	42.0	1.0	-45.2	-40.0	-5.2	
	11550.00	-20.3	H	3.0	40.3	1.0	-59.6	-40.0	-19.6	
	13860.00	-19.3	H	3.0	40.0	1.0	-58.4	-40.0	-18.4	

LTE Band 41 (PC2)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791440365							
Date:		2024-09-07							
Test Engineer:		26087							
Configuration:		EUT / Z-Position							
Location:		Chamber 2							
Mode:		LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth							
Test Votage:		AC 120 V, 60 Hz							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506MHz									
5012.00	-10.6	V	3.0	43.3	1.0	-52.9	-25.0	-27.9	
7518.00	-13.0	V	3.0	42.9	1.0	-54.9	-25.0	-29.9	
10024.00	-10.2	V	3.0	41.5	1.0	-50.8	-25.0	-25.8	
12530.00	-11.6	V	3.0	39.9	1.0	-50.5	-25.0	-25.5	
15036.00	-8.5	V	3.0	40.1	1.0	-47.7	-25.0	-22.7	
5012.00	-11.4	H	3.0	43.3	1.0	-53.7	-25.0	-28.7	
7518.00	-14.0	H	3.0	42.9	1.0	-56.0	-25.0	-31.0	
10024.00	-12.4	H	3.0	41.5	1.0	-52.9	-25.0	-27.9	
12530.00	-11.7	H	3.0	39.9	1.0	-50.6	-25.0	-25.6	
15036.00	-8.8	H	3.0	40.1	1.0	-48.0	-25.0	-23.0	
Mid Ch, 2593MHz									
5186.00	-8.8	V	3.0	43.3	1.0	-51.1	-25.0	-26.1	
7779.00	0.0	V	3.0	42.8	1.0	-41.8	-25.0	-16.8	
10372.00	-14.9	V	3.0	41.3	1.0	-55.2	-25.0	-30.2	
5186.00	-14.9	H	3.0	43.3	1.0	-57.3	-25.0	-32.3	
7779.00	-7.0	H	3.0	42.8	1.0	-48.8	-25.0	-23.8	
10372.00	-14.8	H	3.0	41.3	1.0	-55.1	-25.0	-30.1	
High Ch, 2680MHz									
5360.00	-13.9	V	3.0	43.4	1.0	-56.2	-25.0	-31.2	
8040.00	-10.6	V	3.0	42.6	1.0	-52.2	-25.0	-27.2	
10720.00	-14.0	V	3.0	41.0	1.0	-54.0	-25.0	-29.0	
5360.00	-13.1	H	3.0	43.4	1.0	-55.4	-25.0	-30.4	
8040.00	-12.2	H	3.0	42.6	1.0	-53.8	-25.0	-28.8	
10720.00	-14.2	H	3.0	41.0	1.0	-54.1	-25.0	-29.1	

20 MHz
QPSK

LTE Band 41C (UL CA)

20+20 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4791440365 Date: 2024-09-24 Test Engineer: 24542 Configuration: EUT / Z-Position Location: Chamber 1 Mode: ULCA QPSK Band 41C Harmonics, 40MHz Bandwidth Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, PCC : 2506 MHz SCC : 2525.8 MHz									
	5031.80	-10.7	V	3.0	44.8	1.0	-54.5	-25.0	-29.5	
	7547.70	-10.9	V	3.0	44.9	1.0	-54.8	-25.0	-29.8	
	10063.60	-10.4	V	3.0	43.6	1.0	-53.0	-25.0	-28.0	
	5031.80	-13.9	H	3.0	44.8	1.0	-57.7	-25.0	-32.7	
	7547.70	-11.5	H	3.0	44.9	1.0	-55.4	-25.0	-30.4	
	10063.60	-10.3	H	3.0	43.6	1.0	-52.9	-25.0	-27.9	
	Mid Ch, PCC : 2583.1 MHz SCC : 2602.9 MHz									
	5186.00	-10.7	V	3.0	44.8	1.0	-54.6	-25.0	-29.6	
	7779.00	-12.0	V	3.0	44.8	1.0	-55.8	-25.0	-30.8	
	10372.00	-10.3	V	3.0	43.5	1.0	-52.9	-25.0	-27.9	
	5186.00	-13.6	H	3.0	44.8	1.0	-57.4	-25.0	-32.4	
	7779.00	-11.8	H	3.0	44.8	1.0	-55.7	-25.0	-30.7	
	10372.00	-10.2	H	3.0	43.5	1.0	-52.7	-25.0	-27.7	
	High Ch PCC : 2660.2 MHz SCC : 2680 MHz									
	5340.20	-12.7	V	3.0	44.9	1.0	-56.6	-25.0	-31.6	
	8010.30	-12.1	V	3.0	44.8	1.0	-55.9	-25.0	-30.9	
	10680.40	-9.9	V	3.0	43.5	1.0	-52.4	-25.0	-27.4	
	5340.20	-14.2	H	3.0	44.9	1.0	-58.1	-25.0	-33.1	
	8010.30	-12.2	H	3.0	44.8	1.0	-55.9	-25.0	-30.9	
	10680.40	-9.7	H	3.0	43.5	1.0	-52.2	-25.0	-27.2	

NR Band n66

25 MHz QPSK ANT A	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-09-05									
	Test Engineer: 26087									
	Configuration: EUT / AC Adapter, Y-Position									
	Location: Chamber 2									
	Mode: 5G NR_QPSK NR n66 Harmonics, 25MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1722.5MHz									
	3445.00	-8.4	V	3.0	43.0	1.0	-50.4	-13.0	-37.4	
	5167.50	-8.6	V	3.0	43.3	1.0	-50.9	-13.0	-37.9	
	6890.00	-5.8	V	3.0	43.3	1.0	-48.1	-13.0	-35.1	
	3445.00	-7.6	H	3.0	43.0	1.0	-49.6	-13.0	-36.6	
	5167.50	-8.3	H	3.0	43.3	1.0	-50.6	-13.0	-37.6	
	6890.00	-6.2	H	3.0	43.3	1.0	-48.5	-13.0	-35.5	
	Mid Ch, 1745MHz									
	3490.00	-7.9	V	3.0	43.0	1.0	-49.9	-13.0	-36.9	
	5235.00	-8.6	V	3.0	43.3	1.0	-50.9	-13.0	-37.9	
	6980.00	-5.7	V	3.0	43.3	1.0	-48.0	-13.0	-35.0	
	3490.00	-7.3	H	3.0	43.0	1.0	-49.2	-13.0	-36.2	
	5235.00	-8.4	H	3.0	43.3	1.0	-50.8	-13.0	-37.8	
	6980.00	-6.1	H	3.0	43.3	1.0	-48.4	-13.0	-35.4	
	High Ch, 1767.5MHz									
	3535.00	-7.4	V	3.0	43.0	1.0	-49.4	-13.0	-36.4	
5302.50	-8.1	V	3.0	43.3	1.0	-50.5	-13.0	-37.5		
7070.00	-5.4	V	3.0	43.2	1.0	-47.6	-13.0	-34.6		
3535.00	-7.5	H	3.0	43.0	1.0	-49.5	-13.0	-36.5		
5302.50	-8.3	H	3.0	43.3	1.0	-50.6	-13.0	-37.6		
7070.00	-6.0	H	3.0	43.2	1.0	-48.2	-13.0	-35.2		
40 MHz QPSK ANT B	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-09-24									
	Test Engineer: 24542									
	Configuration: EUT / AC Adapter, Z-Position									
	Location: Chamber 2									
	Mode: 5G NR_QPSK NR n66 Harmonics, 40MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1730MHz									
	3460.00	-8.4	V	3.0	43.0	1.0	-50.3	-13.0	-37.3	
	5190.00	-6.5	V	3.0	43.3	1.0	-48.8	-13.0	-35.8	
	6920.00	-5.9	V	3.0	43.3	1.0	-48.2	-13.0	-35.2	
	3460.00	-7.9	H	3.0	43.0	1.0	-49.9	-13.0	-36.9	
	5190.00	-6.8	H	3.0	43.3	1.0	-49.1	-13.0	-36.1	
	6920.00	-6.2	H	3.0	43.3	1.0	-48.5	-13.0	-35.5	
	Mid Ch, 1745MHz									
	3490.00	-7.8	V	3.0	43.0	1.0	-49.8	-13.0	-36.8	
	5235.00	-5.5	V	3.0	43.3	1.0	-47.8	-13.0	-34.8	
	6980.00	-5.6	V	3.0	43.3	1.0	-47.9	-13.0	-34.9	
	3490.00	-7.5	H	3.0	43.0	1.0	-49.5	-13.0	-36.5	
	5235.00	-6.5	H	3.0	43.3	1.0	-48.9	-13.0	-35.9	
	6980.00	-6.1	H	3.0	43.3	1.0	-48.4	-13.0	-35.4	
	High Ch, 1760MHz									
	3520.00	-7.6	V	3.0	43.0	1.0	-49.6	-13.0	-36.6	
5280.00	-4.2	V	3.0	43.3	1.0	-46.5	-13.0	-33.5		
7040.00	-5.7	V	3.0	43.3	1.0	-48.0	-13.0	-35.0		
3520.00	-7.1	H	3.0	43.0	1.0	-49.1	-13.0	-36.1		
5280.00	-3.9	H	3.0	43.3	1.0	-46.2	-13.0	-33.2		
7040.00	-6.1	H	3.0	43.3	1.0	-48.3	-13.0	-35.3		

UL Verification Services, Inc.

Company:	Samsung
Project #:	4791440365
Date:	2024-09-04
Test Engineer:	26087
Configuration:	EUT / AC Adapter, Z-Position
Location:	Chamber 2
Mode:	5G NR_QPSK NR n71 Harmonics, 5MHz Bandwidth
Test Voltage:	AC 120 V, 60 Hz

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 665.5MHz									
1331.00	-15.1	V	3.0	41.9	1.0	-56.0	-13.0	-43.0	
1996.50	-13.2	V	3.0	42.0	1.0	-54.1	-13.0	-41.1	
2662.00	-11.1	V	3.0	42.5	1.0	-52.6	-13.0	-39.6	
1331.00	-17.1	H	3.0	41.9	1.0	-58.0	-13.0	-45.0	
1996.50	-13.9	H	3.0	42.0	1.0	-54.9	-13.0	-41.9	
2662.00	-10.5	H	3.0	42.5	1.0	-52.0	-13.0	-39.0	
Mid Ch, 680.5MHz									
1361.00	-15.2	V	3.0	41.9	1.0	-56.2	-13.0	-43.2	
2041.50	-11.9	V	3.0	42.0	1.0	-52.9	-13.0	-39.9	
2722.00	-10.9	V	3.0	42.5	1.0	-52.5	-13.0	-39.5	
1361.00	-16.8	H	3.0	41.9	1.0	-57.7	-13.0	-44.7	
2041.50	-13.2	H	3.0	42.0	1.0	-54.2	-13.0	-41.2	
2722.00	-10.4	H	3.0	42.5	1.0	-51.9	-13.0	-38.9	
High Ch, 695.5MHz									
1391.00	-15.2	V	3.0	41.9	1.0	-56.2	-13.0	-43.2	
2086.50	-12.7	V	3.0	42.0	1.0	-53.7	-13.0	-40.7	
2782.00	-10.6	V	3.0	42.6	1.0	-52.2	-13.0	-39.2	
1391.00	-16.7	H	3.0	41.9	1.0	-57.6	-13.0	-44.6	
2086.50	-13.5	H	3.0	42.0	1.0	-54.5	-13.0	-41.5	
2782.00	-10.0	H	3.0	42.6	1.0	-51.6	-13.0	-38.6	

NR Band n77 (PC2, 3450-3550 MHz)

15 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-07									
	Test Engineer: 28775									
	Configuration: EUT / AC Adapter, Y-Position									
	Location: Chamber 2									
	Mode: 5G NR_QPSK NR n77 LO Harmonics, 15MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3457.5MHz									
	6915.00	-3.1	V	3.0	43.3	1.0	-45.4	-13.0	-32.4	
	10372.50	0.5	V	3.0	41.3	1.0	-39.7	-13.0	-26.7	
	13830.00	6.4	V	3.0	40.0	1.0	-32.6	-13.0	-19.6	
	6915.00	-2.8	H	3.0	43.3	1.0	-45.1	-13.0	-32.1	
	10372.50	0.5	H	3.0	41.3	1.0	-39.8	-13.0	-26.8	
	13830.00	5.8	H	3.0	40.0	1.0	-33.2	-13.0	-20.2	
	Mid Ch, 3499.98MHz									
	6999.96	-2.8	V	3.0	43.3	1.0	-45.1	-13.0	-32.1	
	10499.94	0.9	V	3.0	41.1	1.0	-39.2	-13.0	-26.2	
	13999.92	7.1	V	3.0	40.0	1.0	-31.9	-13.0	-18.9	
	6999.96	-2.4	H	3.0	43.3	1.0	-44.7	-13.0	-31.7	
	10499.94	1.0	H	3.0	41.1	1.0	-39.1	-13.0	-26.1	
	13999.92	6.5	H	3.0	40.0	1.0	-32.5	-13.0	-19.5	
	High Ch, 3542.49MHz									
	7084.98	-2.7	V	3.0	43.2	1.0	-45.0	-13.0	-32.0	
10627.47	1.7	V	3.0	41.0	1.0	-38.4	-13.0	-25.4		
14169.96	7.0	V	3.0	40.1	1.0	-32.1	-13.0	-19.1		
7084.98	-3.0	H	3.0	43.2	1.0	-45.3	-13.0	-32.3		
10627.47	1.2	H	3.0	41.0	1.0	-38.8	-13.0	-25.8		
14169.96	6.5	H	3.0	40.1	1.0	-32.5	-13.0	-19.5		
25 MHz SRS1 ANT G	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-04									
	Test Engineer: 24542									
	Configuration: EUT / AC Adapter, Z-Position									
	Location: Chamber 1									
	Mode: 5G NR n77 LO(SRS) Harmonics, 25MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3462.5MHz									
	6925.00	-3.8	V	3.0	45.1	1.0	-48.0	-13.0	-35.0	
	10387.50	0.4	V	3.0	43.5	1.0	-42.2	-13.0	-29.2	
	13850.00	4.1	V	3.0	44.2	1.0	-39.1	-13.0	-26.1	
	6925.00	-3.6	H	3.0	45.1	1.0	-47.8	-13.0	-34.8	
	10387.50	0.7	H	3.0	43.5	1.0	-41.9	-13.0	-28.9	
	13850.00	4.3	H	3.0	44.2	1.0	-38.9	-13.0	-25.9	
	Mid Ch, 3499.98MHz									
	6999.96	-3.9	V	3.0	45.1	1.0	-48.1	-13.0	-35.1	
	10499.94	0.5	V	3.0	43.5	1.0	-42.0	-13.0	-29.0	
	13999.92	4.1	V	3.0	44.3	1.0	-39.2	-13.0	-26.2	
	6999.96	-3.8	H	3.0	45.1	1.0	-47.9	-13.0	-34.9	
	10499.94	0.7	H	3.0	43.5	1.0	-41.8	-13.0	-28.8	
	13999.92	4.2	H	3.0	44.3	1.0	-39.1	-13.0	-26.1	
	High Ch, 3537.48MHz									
	7074.96	-3.6	V	3.0	45.1	1.0	-47.8	-13.0	-34.8	
10612.44	0.7	V	3.0	43.5	1.0	-41.8	-13.0	-28.8		
14149.92	4.4	V	3.0	44.4	1.0	-39.0	-13.0	-26.0		
7074.96	-3.4	H	3.0	45.1	1.0	-47.5	-13.0	-34.5		
10612.44	1.6	H	3.0	43.5	1.0	-40.9	-13.0	-27.9		
14149.93	4.6	H	3.0	44.4	1.0	-38.8	-13.0	-25.8		

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NR Band n77 (PC2, 3700-3980 MHz)

10 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-07									
	Test Engineer: 28775									
	Configuration: EUT / AC Adapter, Z-Position									
	Location: Chamber 2									
	Mode: 5G NR_QPSK NR n77 UP Harmonics, 10MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3705MHz									
	7410.00	-2.5	V	3.0	43.0	1.0	-44.5	-13.0	-31.5	
	11115.00	2.2	V	3.0	40.6	1.0	-37.4	-13.0	-24.4	
	14820.00	7.6	V	3.0	40.1	1.0	-31.5	-13.0	-18.5	
	7410.00	-3.2	H	3.0	43.0	1.0	-45.2	-13.0	-32.2	
	11115.00	2.0	H	3.0	40.6	1.0	-37.6	-13.0	-24.6	
	14820.00	6.9	H	3.0	40.1	1.0	-32.2	-13.0	-19.2	
	Mid Ch, 3840MHz									
	7680.00	-1.8	V	3.0	42.8	1.0	-43.6	-13.0	-30.6	
	11520.00	3.8	V	3.0	40.3	1.0	-35.5	-13.0	-22.5	
	15360.00	7.6	V	3.0	40.2	1.0	-31.6	-13.0	-18.6	
	7680.00	-3.0	H	3.0	42.8	1.0	-44.9	-13.0	-31.9	
	11520.00	3.5	H	3.0	40.3	1.0	-35.8	-13.0	-22.8	
	15360.00	7.4	H	3.0	40.2	1.0	-31.8	-13.0	-18.8	
High Ch, 3975MHz										
7950.00	-1.6	V	3.0	42.7	1.0	-43.2	-13.0	-30.2		
11925.00	3.7	V	3.0	39.9	1.0	-35.2	-13.0	-22.2		
15900.00	8.3	V	3.0	40.3	1.0	-31.0	-13.0	-18.0		
7950.00	-2.6	H	3.0	42.7	1.0	-44.3	-13.0	-31.3		
11925.00	3.7	H	3.0	39.9	1.0	-35.2	-13.0	-22.2		
15900.00	7.8	H	3.0	40.3	1.0	-31.4	-13.0	-18.4		

15 MHz SRS2 ANT D	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-03									
	Test Engineer: 24542									
	Configuration: EUT / AC Adapter, Y-Posiiton									
	Location: Chamber 1									
	Mode: 5G NR n77 UP(SRS) Harmonics, 15MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3707.5MHz									
	7415.00	-3.4	V	3.0	45.0	1.0	-47.4	-13.0	-34.4	
	11122.50	1.9	V	3.0	43.4	1.0	-40.5	-13.0	-27.5	
	14830.00	4.8	V	3.0	44.7	1.0	-39.0	-13.0	-26.0	
	7415.00	-3.3	H	3.0	45.0	1.0	-47.3	-13.0	-34.3	
	11122.50	2.0	H	3.0	43.4	1.0	-40.4	-13.0	-27.4	
	14830.00	5.1	H	3.0	44.7	1.0	-38.7	-13.0	-25.7	
	Mid Ch, 3840MHz									
	7680.00	-2.9	V	3.0	44.9	1.0	-46.8	-13.0	-33.8	
	11520.00	1.7	V	3.0	43.3	1.0	-40.6	-13.0	-27.6	
	15360.00	5.6	V	3.0	44.7	1.0	-38.1	-13.0	-25.1	
	7680.00	-2.9	H	3.0	44.9	1.0	-46.8	-13.0	-33.8	
	11520.00	1.9	H	3.0	43.3	1.0	-40.4	-13.0	-27.4	
	15360.00	5.6	H	3.0	44.7	1.0	-38.1	-13.0	-25.1	
High Ch, 3972.5MHz										
7945.00	-2.4	V	3.0	44.8	1.0	-46.2	-13.0	-33.2		
11917.50	2.3	V	3.0	43.2	1.0	-39.9	-13.0	-26.9		
15890.00	6.4	V	3.0	44.6	1.0	-37.1	-13.0	-24.1		
7945.00	-2.8	H	3.0	44.8	1.0	-46.6	-13.0	-33.6		
11917.50	2.6	H	3.0	43.2	1.0	-39.6	-13.0	-26.6		
15890.00	6.6	H	3.0	44.6	1.0	-37.0	-13.0	-24.0		
90 MHz SRS3 ANT F	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4791440365									
	Date: 2024-10-03									
	Test Engineer: 24542									
	Configuration: EUT / AC Adapter, X-Position									
	Location: Chamber 1									
	Mode: 5G NR n77 UP(SRS) Harmonics, 90MHz Bandwidth									
	Test Votage: AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 3745MHz									
	7490.00	-3.4	V	3.0	45.0	1.0	-47.3	-13.0	-34.3	
	11235.00	1.6	V	3.0	43.4	1.0	-40.8	-13.0	-27.8	
	14980.00	5.3	V	3.0	44.8	1.0	-38.5	-13.0	-25.5	
	7490.00	-3.2	H	3.0	45.0	1.0	-47.2	-13.0	-34.2	
	11235.00	2.1	H	3.0	43.4	1.0	-40.3	-13.0	-27.3	
	14980.00	5.5	H	3.0	44.8	1.0	-38.3	-13.0	-25.3	
	Mid Ch, 3840MHz									
	7680.00	-3.1	V	3.0	44.9	1.0	-46.9	-13.0	-33.9	
	11520.00	2.1	V	3.0	43.3	1.0	-40.2	-13.0	-27.2	
	15360.00	5.5	V	3.0	44.7	1.0	-38.2	-13.0	-25.2	
	7680.00	-3.0	H	3.0	44.9	1.0	-46.9	-13.0	-33.9	
	11520.00	2.2	H	3.0	43.3	1.0	-40.1	-13.0	-27.1	
	15360.00	5.8	H	3.0	44.7	1.0	-37.9	-13.0	-24.9	
High Ch, 3935MHz										
7870.00	-2.6	V	3.0	44.8	1.0	-46.4	-13.0	-33.4		
11805.00	2.2	V	3.0	43.2	1.0	-40.0	-13.0	-27.0		
15740.00	6.4	V	3.0	44.6	1.0	-37.2	-13.0	-24.2		
7870.00	-2.6	H	3.0	44.8	1.0	-46.4	-13.0	-33.4		
11805.00	2.5	H	3.0	43.2	1.0	-39.7	-13.0	-26.7		
15740.00	6.5	H	3.0	44.6	1.0	-37.2	-13.0	-24.2		

END OF REPORT