

WCDMA

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
Band 5	REL99	826.40	18.57	V	3.11	-0.84	14.62	28.97	38.50	-23.88
		826.40	22.58	H	3.11	-0.84	18.64	73.11	38.50	-19.86
		836.60	18.63	V	3.13	-0.93	14.57	28.64	38.50	-23.93
		836.60	22.51	H	3.13	-0.93	18.45	69.98	38.50	-20.05
		846.60	18.87	V	3.14	-1.02	14.71	29.58	38.50	-23.79
	846.60	21.90	H	3.14	-1.02	17.74	59.43	38.50	-20.76	
	HSDPA	826.40	17.54	V	3.11	-0.84	13.59	22.86	38.50	-24.91
		826.40	21.74	H	3.11	-0.84	17.80	60.26	38.50	-20.70
		836.60	17.74	V	3.13	-0.93	13.68	23.33	38.50	-24.82
		836.60	21.57	H	3.13	-0.93	17.51	56.36	38.50	-20.99
846.60		17.91	V	3.14	-1.02	13.75	23.71	38.50	-24.75	
846.60	20.99	H	3.14	-1.02	16.83	48.19	38.50	-21.67		

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
Band 4	REL99	1712.40	3.54	V	4.44	9.58	8.68	7.38	30.00	-21.32
		1712.40	15.75	H	4.44	9.58	20.89	122.74	30.00	-9.11
		1732.60	3.54	V	4.46	9.65	8.72	7.45	30.00	-21.28
		1732.60	16.81	H	4.46	9.65	22.00	158.49	30.00	-8.00
		1752.60	2.66	V	4.48	9.70	7.87	6.12	30.00	-22.13
	1752.60	17.26	H	4.48	9.70	22.47	176.60	30.00	-7.53	
	HSDPA	1712.40	2.67	V	4.44	9.58	7.81	6.04	30.00	-22.19
		1712.40	15.05	H	4.44	9.58	20.19	104.47	30.00	-9.81
		1732.60	3.02	V	4.46	9.65	8.20	6.61	30.00	-21.80
		1732.60	15.86	H	4.46	9.65	21.05	127.35	30.00	-8.95
1752.60		1.50	V	4.48	9.70	6.71	4.69	30.00	-23.29	
1752.60	16.00	H	4.48	9.70	21.21	132.13	30.00	-8.79		

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
Band 2	REL99	1852.40	18.97	V	4.62	9.62	23.97	249.46	33.00	-9.03
		1852.40	12.22	H	4.62	9.62	17.23	52.84	33.00	-15.77
		1880.00	19.75	V	4.65	9.37	24.47	279.90	33.00	-8.53
		1880.00	13.79	H	4.65	9.37	18.51	70.96	33.00	-14.49
		1907.60	18.75	V	4.68	9.10	23.16	207.01	33.00	-9.84
	1907.60	14.94	H	4.68	9.10	19.35	86.10	33.00	-13.65	
	HSDPA	1852.40	18.08	V	4.62	9.62	23.08	203.24	33.00	-9.92
		1852.40	11.20	H	4.62	9.62	16.21	41.78	33.00	-16.79
		1880.00	18.73	V	4.65	9.37	23.45	221.31	33.00	-9.55
		1880.00	13.31	H	4.65	9.37	18.03	63.53	33.00	-14.97
1907.60		17.73	V	4.68	9.10	22.14	163.68	33.00	-10.86	
1907.60	13.94	H	4.68	9.10	18.35	68.39	33.00	-14.65		

LTE Band 7

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	2502.50	18.53	H	5.37	10.17	23.33	215.28	33.00	-9.67	1/24
		2535.00	18.70	H	5.41	10.11	23.40	218.78	33.00	-9.60	1/0
		2567.50	19.89	H	5.45	10.06	24.51	282.49	33.00	-8.49	1/24
	16-QAM	2502.50	18.01	H	5.37	10.17	22.81	190.99	33.00	-10.19	1/24
		2535.00	18.32	H	5.41	10.11	23.02	200.45	33.00	-9.98	1/24
		2567.50	19.03	H	5.45	10.06	23.65	231.74	33.00	-9.35	1/24
10	QPSK	2505.00	18.82	H	5.38	10.17	23.61	229.61	33.00	-9.39	1/49
		2535.00	19.18	H	5.41	10.11	23.88	244.34	33.00	-9.12	1/0
		2565.00	19.73	H	5.43	10.07	24.37	273.53	33.00	-8.63	1/0
	16-QAM	2505.00	18.15	H	5.38	10.17	22.94	196.79	33.00	-10.06	1/49
		2535.00	18.10	H	5.41	10.11	22.80	190.55	33.00	-10.20	1/0
		2565.00	19.14	H	5.43	10.07	23.78	238.78	33.00	-9.22	1/0
15	QPSK	2507.50	18.55	H	5.39	10.16	23.32	214.78	33.00	-9.68	1/74
		2535.00	18.92	H	5.41	10.11	23.62	230.14	33.00	-9.38	1/0
		2562.50	19.45	H	5.44	10.07	24.08	255.86	33.00	-8.92	1/0
	16-QAM	2507.50	17.89	H	5.39	10.16	22.66	184.50	33.00	-10.34	1/74
		2535.00	17.98	H	5.41	10.11	23.68	233.35	33.00	-10.32	1/0
		2562.50	18.86	H	5.44	10.07	23.49	223.36	33.00	-9.51	1/0
20	QPSK	2510.00	18.37	H	5.38	10.16	23.15	206.54	33.00	-9.85	1/99
		2535.00	18.27	H	5.41	10.11	22.97	198.15	33.00	-10.03	1/0
		2560.00	19.07	H	5.44	10.07	23.70	234.42	33.00	-9.30	1/0
	16-QAM	2510.00	17.94	H	5.38	10.16	22.72	187.07	33.00	-10.28	1/99
		2535.00	17.62	H	5.41	10.11	22.32	170.61	33.00	-10.68	1/0
		2560.00	18.10	H	5.44	10.07	22.73	187.50	33.00	-10.27	1/0

LTE Band 12

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	699.70	22.20	H	2.87	-0.80	18.53	71.29	34.77	-16.24	1/0
		707.50	23.63	H	2.89	-0.79	19.96	99.08	34.77	-14.81	1/3
		715.30	23.61	H	2.90	-0.77	19.94	98.63	34.77	-14.83	1/3
	16-QAM	699.70	21.11	H	2.87	-0.80	17.44	55.46	34.77	-17.33	1/3
		707.50	22.72	H	2.89	-0.79	19.05	80.35	34.77	-15.72	1/3
		715.30	22.38	H	2.90	-0.77	18.71	74.30	34.77	-16.06	1/3
3	QPSK	700.50	22.24	H	2.88	-0.80	18.56	71.78	34.77	-16.21	1/0
		707.50	24.00	H	2.89	-0.79	20.33	107.89	34.77	-14.44	1/0
		714.50	23.63	H	2.90	-0.77	19.96	99.08	34.77	-14.81	1/0
	16-QAM	700.50	21.16	H	2.88	-0.80	17.48	55.98	34.77	-17.29	1/0
		707.50	22.99	H	2.89	-0.79	19.32	85.51	34.77	-15.45	1/0
		714.50	22.65	H	2.90	-0.77	18.98	79.07	34.77	-15.79	1/0
5	QPSK	701.50	22.29	H	2.88	-0.80	18.62	72.78	34.77	-16.15	1/0
		707.50	23.90	H	2.89	-0.79	20.23	105.44	34.77	-14.54	1/12
		713.50	23.54	H	2.90	-0.77	19.87	97.05	34.77	-14.90	1/0
	16-QAM	701.50	20.63	H	2.88	-0.80	16.96	49.66	34.77	-17.81	1/24
		707.50	23.11	H	2.89	-0.79	19.44	87.90	34.77	-15.33	1/0
		713.50	22.70	H	2.90	-0.77	19.03	79.98	34.77	-15.74	1/0
10	QPSK	704.00	21.74	H	2.88	-0.79	18.07	64.12	34.77	-16.70	1/49
		707.50	24.04	H	2.89	-0.79	20.37	108.89	34.77	-14.40	1/0
		711.00	23.46	H	2.89	-0.78	19.79	95.28	34.77	-14.98	1/49
	16-QAM	704.00	20.38	H	2.88	-0.79	16.71	46.88	34.77	-18.06	1/49
		707.50	23.05	H	2.89	-0.79	19.38	86.70	34.77	-15.39	1/0
		711.00	22.53	H	2.89	-0.78	18.86	76.91	34.77	-15.91	1/49

LTE Band 13

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	779.50	24.22	H	3.02	-0.64	20.56	113.76	34.77	-14.21	1/12
		782.00	24.12	H	3.02	-0.64	20.46	111.17	34.77	-14.31	1/0
		784.50	23.55	H	3.04	-0.63	19.88	97.27	34.77	-14.89	1/12
	16-QAM	779.50	23.62	H	3.02	-0.64	19.96	99.08	34.77	-14.81	1/12
		782.00	23.29	H	3.02	-0.64	19.63	91.83	34.77	-15.14	1/0
		784.50	22.55	H	3.04	-0.63	18.88	77.27	34.77	-15.89	1/12
10	QPSK	782.00	24.32	H	3.02	-0.64	20.66	116.41	34.77	-14.11	1/25
	16-QAM	782.00	23.36	H	3.02	-0.64	19.70	93.33	34.77	-15.07	1/25

LTE Band 14

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	790.50	23.48	H	3.04	-0.62	19.82	95.94	34.77	-14.95	1/0
		793.00	23.53	H	3.05	-0.61	19.87	97.05	34.77	-14.90	1/0
		795.50	23.08	H	3.05	-0.61	19.42	87.50	34.77	-15.35	1/0
	16-QAM	790.50	22.58	H	3.04	-0.62	18.92	77.98	34.77	-15.85	1/0
		793.00	22.19	H	3.05	-0.61	18.53	71.29	34.77	-16.24	1/0
		795.50	22.31	H	3.05	-0.61	18.65	73.28	34.77	-16.12	1/0
10	QPSK	793.00	23.34	H	3.05	-0.61	19.68	92.90	34.77	-15.09	1/25
	16-QAM	793.00	22.71	H	3.05	-0.61	19.05	80.35	34.77	-15.72	1/0

LTE Band 25(Main ANT)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	1850.70	19.10	V	4.62	9.64	24.12	258.23	33.00	-8.88	1/0
		1882.50	20.09	V	4.65	9.35	24.78	300.61	33.00	-8.22	1/0
		1914.30	19.18	V	4.70	9.01	23.49	223.36	33.00	-9.51	1/0
	16-QAM	1850.70	18.44	V	4.62	9.64	23.46	221.82	33.00	-9.54	1/3
		1882.50	19.56	V	4.65	9.35	24.25	266.07	33.00	-8.75	1/3
		1914.30	18.19	V	4.70	9.01	22.50	177.83	33.00	-10.50	1/3
3	QPSK	1851.50	19.53	V	4.62	9.63	24.54	284.45	33.00	-8.46	1/0
		1882.50	20.08	V	4.65	9.35	24.77	299.92	33.00	-8.23	1/0
		1913.50	19.09	V	4.69	9.02	23.42	219.79	33.00	-9.58	1/0
	16-QAM	1851.50	18.66	V	4.62	9.63	23.67	232.81	33.00	-9.33	1/0
		1882.50	19.29	V	4.65	9.35	23.98	250.03	33.00	-9.02	1/0
		1913.50	18.37	V	4.69	9.02	22.70	186.21	33.00	-10.30	1/0
5	QPSK	1852.50	19.59	V	4.62	9.62	24.60	288.40	33.00	-8.40	1/0
		1882.50	20.16	V	4.65	9.35	24.85	305.49	33.00	-8.15	1/0
		1912.50	19.32	V	4.69	9.03	23.67	232.81	33.00	-9.33	1/0
	16-QAM	1852.50	19.01	V	4.62	9.62	24.02	252.35	33.00	-8.98	1/0
		1882.50	19.51	V	4.65	9.35	24.20	263.03	33.00	-8.80	1/0
		1912.50	18.25	V	4.69	9.03	22.60	181.97	33.00	-10.40	1/24
10	QPSK	1855.00	19.73	V	4.62	9.60	24.71	295.80	33.00	-8.29	1/49
		1882.50	20.06	V	4.65	9.35	24.75	298.54	33.00	-8.25	1/0
		1910.00	19.34	V	4.68	9.07	23.72	235.50	33.00	-9.28	1/0
	16-QAM	1855.00	19.23	V	4.62	9.60	24.21	263.63	33.00	-8.79	1/49
		1882.50	19.70	V	4.65	9.35	24.39	274.79	33.00	-8.61	1/0
		1910.00	18.74	V	4.68	9.07	23.12	205.12	33.00	-9.88	1/0
15	QPSK	1857.50	19.86	V	4.63	9.58	24.81	302.69	33.00	-8.19	1/74
		1882.50	20.22	V	4.65	9.35	24.91	309.74	33.00	-8.09	1/0
		1907.50	19.17	V	4.69	9.10	23.58	228.03	33.00	-9.42	1/0
	16-QAM	1857.50	19.15	V	4.63	9.58	24.10	257.04	33.00	-8.90	1/74
		1882.50	19.76	V	4.65	9.35	24.45	278.61	33.00	-8.55	1/0
		1907.50	18.58	V	4.69	9.10	22.99	199.07	33.00	-10.01	1/0
20	QPSK	1860.00	19.44	V	4.63	9.55	24.37	273.53	33.00	-8.63	1/0
		1882.50	19.83	V	4.65	9.35	24.52	283.14	33.00	-8.48	1/99
		1905.00	19.37	V	4.68	9.13	23.82	240.99	33.00	-9.18	1/0
	16-QAM	1860.00	18.75	V	4.63	9.55	23.68	233.35	33.00	-9.32	1/99
		1882.50	19.07	V	4.65	9.35	23.76	237.68	33.00	-9.24	1/0
		1905.00	18.61	V	4.68	9.13	23.06	202.30	33.00	-9.94	1/0

LTE Band 25(Sub ANT)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK										
	16-QAM										
3	QPSK										
	16-QAM										
5	QPSK										
	16-QAM										
10	QPSK										
	16-QAM										
15	QPSK	1857.50	14.19	V	4.63	9.55	19.11	81.47	33.00	-13.89	1/74
		1882.50	15.10	V	4.65	9.37	19.81	95.72	33.00	-13.19	1/0
		1907.50	14.86	V	4.69	9.15	19.33	85.70	33.00	-13.67	1/0
	16-QAM	1857.50	13.37	V	4.63	9.55	18.28	67.30	33.00	-14.72	1/0
		1882.50	14.64	V	4.65	9.37	19.35	86.10	33.00	-13.65	1/37
		1907.50	14.45	V	4.69	9.15	18.92	77.98	33.00	-14.08	1/0
20	QPSK										
	16-QAM										

LTE Band 26

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB	
1.4	QPSK	814.70	21.23	H	3.09	-0.73	17.41	55.08	50.00	-32.59	1/3	
		823.30	20.98	H	3.10	-0.81	17.07	50.93	50.00	-32.93	1/3	
		824.70	20.71	H	3.11	-0.82	16.77	47.53	38.50	-21.73	1/3	
		831.50	23.53	H	3.11	-0.88	19.53	89.74	38.50	-18.97	1/3	
		848.30	22.34	H	3.15	-1.03	18.16	65.46	38.50	-20.34	1/0	
	16-QAM	814.70	20.25	H	3.09	-0.73	16.43	43.95	50.00	-33.57	1/3	
		823.30	19.92	H	3.10	-0.81	16.01	39.90	50.00	-33.99	1/3	
		824.70	19.97	H	3.11	-0.82	16.03	40.09	38.50	-22.47	1/3	
		831.50	22.44	H	3.11	-0.88	18.44	69.82	38.50	-20.06	1/0	
		848.30	21.25	H	3.15	-1.03	17.07	50.93	38.50	-21.43	1/3	
3	QPSK	815.50	21.89	H	3.08	-0.74	18.07	64.12	50.00	-31.93	1/0	
		822.50	20.98	H	3.10	-0.80	17.07	50.93	50.00	-32.93	1/8	
		825.50	20.95	H	3.10	-0.83	17.01	50.23	38.50	-21.49	1/8	
		831.50	23.56	H	3.11	-0.88	19.56	90.36	38.50	-18.94	1/14	
		847.50	22.54	H	3.15	-1.03	18.36	68.55	38.50	-20.14	1/0	
	16-QAM	815.50	20.65	H	3.08	-0.74	16.83	48.19	50.00	-33.17	1/0	
		822.50	19.97	H	3.10	-0.80	16.06	40.36	50.00	-33.94	1/8	
		825.50	19.95	H	3.10	-0.83	16.01	39.90	38.50	-22.49	1/8	
		831.50	22.36	H	3.11	-0.88	18.36	68.55	38.50	-20.14	1/0	
		847.50	21.57	H	3.15	-1.03	17.39	54.83	38.50	-21.11	1/0	
5	QPSK	816.50	21.46	H	3.09	-0.75	17.63	57.94	50.00	-32.37	1/0	
		821.50	21.14	H	3.10	-0.79	17.24	52.97	50.00	-32.76	1/12	
		826.50	23.88	H	3.11	-0.84	19.93	98.40	38.50	-18.57	1/12	
		831.50	23.68	H	3.11	-0.88	19.68	92.90	38.50	-18.82	1/0	
		846.50	22.64	H	3.14	-1.02	18.48	70.47	38.50	-20.02	1/0	
	16-QAM	816.50	20.63	H	3.09	-0.75	16.80	47.86	50.00	-33.20	1/0	
		821.50	20.13	H	3.10	-0.79	16.23	41.98	50.00	-33.77	1/12	
		826.50	23.07	H	3.11	-0.84	19.12	81.66	38.50	-19.38	1/12	
		831.50	22.89	H	3.11	-0.88	18.89	77.45	38.50	-19.61	1/0	
		846.50	21.60	H	3.14	-1.02	17.44	55.46	38.50	-21.06	1/0	
10	QPSK	819.00	22.13	H	3.09	-0.77	18.27	67.14	50.00	-31.73	1/0	
		829.00	23.76	H	3.11	-0.86	19.79	95.28	38.50	-18.71	1/0	
		831.50	23.36	H	3.11	-0.88	19.36	86.30	38.50	-19.14	1/25	
		844.00	23.35	H	3.14	-1.00	19.22	83.56	38.50	-19.28	1/0	
	16-QAM	819.00	21.44	H	3.09	-0.77	17.58	57.28	50.00	-32.42	1/0	
		829.00	22.86	H	3.11	-0.86	18.89	77.45	38.50	-19.61	1/0	
		831.50	22.60	H	3.11	-0.88	18.60	72.44	38.50	-19.90	1/25	
		844.00	22.34	H	3.14	-1.00	18.21	66.22	38.50	-20.29	1/0	
	15	QPSK	821.50	20.23	H	3.10	-0.79	16.33	42.95	50.00	-33.67	1/74
			831.50	23.40	H	3.11	-0.88	19.40	87.10	38.50	-19.10	1/37
841.50			23.40	H	3.13	-0.97	19.30	85.11	38.50	-19.20	1/0	
16-QAM		821.50	19.06	H	3.10	-0.79	15.16	32.81	50.00	-34.84	1/74	
		831.50	22.58	H	3.11	-0.88	18.58	72.11	38.50	-19.92	1/37	
		841.50	22.48	H	3.13	-0.97	18.38	68.87	38.50	-20.12	1/0	

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	824.00	20.88	H	3.10	-0.82	16.96	49.66	38.50	-21.54	1/3
	16-QAM		19.77	H	3.10	-0.82	15.85	38.46	38.50	-22.65	1/3
3	QPSK		21.05	H	3.10	-0.82	17.13	51.64	38.50	-21.37	1/0
	16-QAM		20.16	H	3.10	-0.82	16.24	42.07	38.50	-22.26	1/0
5	QPSK		20.65	H	3.10	-0.82	16.73	47.10	38.50	-21.77	1/24
	16-QAM		20.04	H	3.10	-0.82	16.12	40.93	38.50	-22.38	1/0
10	QPSK		20.58	H	3.10	-0.82	16.33	42.95	38.50	-21.84	1/0
	16-QAM		19.87	H	3.10	-0.82	15.95	39.36	38.50	-22.55	1/25
15	QPSK		20.06	H	3.10	-0.82	16.14	41.11	38.50	-22.36	1/74
	16-QAM		19.81	H	3.10	-0.82	15.89	38.82	38.50	-22.61	1/37

LTE Band 30

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	2307.50	16.04	V	5.15	9.92	20.81	120.50	24.00	-3.19	1/12
		2310.00	15.80	V	5.16	9.93	20.57	114.02	24.00	-3.43	1/0
		2312.50	16.09	V	5.15	9.94	20.88	122.46	24.00	-3.12	1/24
	16-QAM	2307.50	15.16	V	5.15	9.92	19.93	98.40	24.00	-4.07	1/12
		2310.00	14.88	V	5.16	9.93	19.65	92.26	24.00	-4.35	1/24
		2312.50	15.38	V	5.15	9.94	20.17	103.99	24.00	-3.83	1/24
10	QPSK	2310.00	16.29	V	5.16	9.93	21.06	127.64	24.00	-2.94	1/49
	16-QAM	2310.00	15.01	V	5.16	9.93	19.78	95.06	24.00	-4.22	1/0

LTE Band 40

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	2307.50	7.40	V	5.15	9.92	12.17	16.48	24.00	-11.83	1/12
		2310.00	7.44	V	5.16	9.93	12.21	16.63	24.00	-11.79	1/0
		2312.50	7.40	V	5.15	9.94	12.19	16.56	24.00	-11.81	1/12
		2352.50	6.19	V	5.20	10.14	11.13	12.97	24.00	-12.87	1/12
		2355.00	6.10	V	5.21	10.15	11.04	12.71	24.00	-12.96	1/0
		2357.50	6.48	V	5.20	10.15	11.43	13.90	24.00	-12.57	1/12
	256-QAM	2307.50	7.16	V	5.15	9.92	11.93	15.60	24.00	-12.07	1/12
		2310.00	6.91	V	5.16	9.93	11.68	14.72	24.00	-12.32	1/24
		2312.50	7.03	V	5.15	9.94	11.82	15.21	24.00	-12.18	1/12
		2352.50	5.78	V	5.20	10.14	10.72	11.80	24.00	-13.28	1/12
		2355.00	5.83	V	5.21	10.15	10.77	11.94	24.00	-13.23	1/24
		2357.50	6.24	V	5.20	10.15	11.19	13.15	24.00	-12.81	1/12
10	QPSK	2310.00	7.40	V	5.16	9.93	12.17	16.48	24.00	-11.83	1/49
		2355.00	6.63	V	5.21	10.15	11.57	14.35	24.00	-12.43	1/49
	256-QAM	2310.00	6.80	V	5.16	9.93	11.57	14.35	24.00	-12.43	1/49
		2355.00	5.84	V	5.21	10.08	10.71	11.78	24.00	-13.29	1/0

LTE Band 41(PC2)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	2498.50	21.11	H	5.36	10.18	25.92	390.84	33.00	-7.08	1/0
		2593.00	22.90	H	5.47	10.03	27.46	557.19	33.00	-5.54	1/12
		2687.50	22.32	H	5.57	10.05	26.81	479.73	33.00	-6.19	1/24
	16-QAM	2498.50	20.81	H	5.36	10.18	25.62	364.75	33.00	-7.38	1/0
		2593.00	22.45	H	5.47	10.03	27.01	502.34	33.00	-5.99	1/0
		2687.50	22.02	H	5.57	10.05	26.51	447.71	33.00	-6.49	1/12
10	QPSK	2501.00	21.03	H	5.38	10.20	25.85	384.59	33.00	-7.15	1/0
		2593.00	23.15	H	5.47	10.12	27.79	601.17	33.00	-5.21	1/0
		2685.00	21.95	H	5.56	10.20	26.59	456.04	33.00	-6.41	1/25
	16-QAM	2501.00	20.65	H	5.38	10.20	25.47	352.37	33.00	-7.53	1/49
		2593.00	22.71	H	5.47	10.12	27.35	543.25	33.00	-5.65	1/0
		2685.00	21.95	H	5.56	10.20	26.59	456.04	33.00	-6.41	1/0
15	QPSK	2503.50	21.06	H	5.37	10.20	25.89	388.15	33.00	-7.11	1/74
		2593.00	23.03	H	5.47	10.12	27.67	584.79	33.00	-5.33	1/0
		2682.50	21.66	H	5.56	10.19	26.29	425.60	33.00	-6.71	1/0
	16-QAM	2503.50	20.52	H	5.37	10.20	25.35	342.77	33.00	-7.65	1/74
		2593.00	22.47	H	5.47	10.12	27.11	514.04	33.00	-5.89	1/0
		2682.50	21.35	H	5.56	10.19	25.98	396.28	33.00	-7.02	1/74
20	QPSK	2506.00	21.01	H	5.37	10.19	25.83	382.82	33.00	-7.17	1/49
		2593.00	23.07	H	5.47	10.12	27.71	590.20	33.00	-5.29	1/0
		2680.00	21.62	H	5.56	10.19	26.25	421.70	33.00	-6.75	1/0
	16-QAM	2506.00	21.08	H	5.37	10.19	25.90	389.05	33.00	-7.10	1/99
		2593.00	22.37	H	5.47	10.12	27.01	502.34	33.00	-5.99	1/0
		2680.00	21.59	H	5.56	10.19	26.22	418.79	33.00	-6.78	1/99

LTE Band 66(Main ANT)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	1710.70	16.81	H	4.43	9.58	21.96	157.04	30.00	-8.04	1/3
		1745.00	17.72	H	4.47	9.69	22.93	196.34	30.00	-7.07	1/3
		1779.30	15.99	H	4.52	9.71	21.18	131.22	30.00	-8.82	1/3
	16-QAM	1710.70	16.15	H	4.43	9.58	21.30	134.90	30.00	-8.70	1/3
		1745.00	17.14	H	4.47	9.69	22.35	171.79	30.00	-7.65	1/3
		1779.30	15.75	H	4.52	9.71	20.94	124.17	30.00	-9.06	1/3
3	QPSK	1711.50	16.38	H	4.44	9.58	21.52	141.91	30.00	-8.48	1/0
		1745.00	17.86	H	4.47	9.69	23.07	202.77	30.00	-6.93	1/0
		1778.50	16.76	H	4.52	9.71	21.95	156.68	30.00	-8.05	1/0
	16-QAM	1711.50	15.86	H	4.44	9.58	21.00	125.89	30.00	-9.00	1/0
		1745.00	17.26	H	4.47	9.69	22.47	176.60	30.00	-7.53	1/0
		1778.50	16.05	H	4.52	9.71	21.24	133.05	30.00	-8.76	1/0
5	QPSK	1712.50	17.14	H	4.44	9.58	22.29	169.43	30.00	-7.71	1/12
		1745.00	18.14	H	4.47	9.69	23.35	216.27	30.00	-6.65	1/0
		1777.50	16.54	H	4.52	9.71	21.73	148.94	30.00	-8.27	1/24
	16-QAM	1712.50	16.64	H	4.44	9.58	21.79	151.01	30.00	-8.21	1/0
		1745.00	17.39	H	4.47	9.69	22.60	181.97	30.00	-7.40	1/0
		1777.50	16.05	H	4.52	9.71	21.24	133.05	30.00	-8.76	1/0
10	QPSK	1715.00	17.48	H	4.44	9.59	22.64	183.65	30.00	-7.36	1/49
		1745.00	18.05	H	4.47	9.69	23.26	211.84	30.00	-6.74	1/0
		1775.00	17.38	H	4.51	9.71	22.57	180.72	30.00	-7.43	1/49
	16-QAM	1715.00	16.58	H	4.44	9.59	21.74	149.28	30.00	-8.26	1/49
		1745.00	17.62	H	4.47	9.69	22.83	191.87	30.00	-7.17	1/0
		1775.00	16.68	H	4.51	9.71	21.87	153.82	30.00	-8.13	1/0
15	QPSK	1717.50	17.20	H	4.44	9.60	22.35	171.79	30.00	-7.65	1/74
		1745.00	18.15	H	4.47	9.69	23.36	216.77	30.00	-6.64	1/0
		1772.50	16.80	H	4.51	9.71	22.00	158.49	30.00	-8.00	1/0
	16-QAM	1717.50	16.68	H	4.44	9.60	21.83	152.41	30.00	-8.17	1/74
		1745.00	17.34	H	4.47	9.69	22.55	179.89	30.00	-7.45	1/37
		1772.50	16.25	H	4.51	9.71	21.45	139.64	30.00	-8.55	1/0
20	QPSK	1720.00	17.26	H	4.44	9.61	22.43	174.98	30.00	-7.57	1/0
		1745.00	18.12	H	4.47	9.69	23.33	215.28	30.00	-6.67	1/0
		1770.00	16.85	H	4.51	9.71	22.05	160.32	30.00	-7.95	1/49
	16-QAM	1720.00	16.63	H	4.44	9.61	21.80	151.36	30.00	-8.20	1/0
		1745.00	17.24	H	4.47	9.69	22.45	175.79	30.00	-7.55	1/0
		1770.00	16.14	H	4.51	9.71	21.34	136.14	30.00	-8.66	1/49

LTE Band 66(Sub ANT)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB	
1.4	QPSK	1710.70						1.00				
		1745.00						1.00				
		1779.30						1.00				
	16-QAM	1710.70							1.00			
		1745.00							1.00			
		1779.30							1.00			
3	QPSK	1711.50						1.00				
		1745.00						1.00				
		1778.50							1.00			
	16-QAM	1711.50							1.00			
		1745.00							1.00			
		1778.50							1.00			
5	QPSK	1712.50						1.00				
		1745.00						1.00				
		1777.50							1.00			
	16-QAM	1712.50							1.00			
		1745.00							1.00			
		1777.50							1.00			
10	QPSK	1715.00						1.00				
		1745.00						1.00				
		1775.00							1.00			
	16-QAM	1715.00							1.00			
		1745.00							1.00			
		1775.00							1.00			
15	QPSK	1717.50						1.00				
		1745.00						1.00				
		1772.50							1.00			
	16-QAM	1717.50							1.00			
		1745.00							1.00			
		1772.50							1.00			
20	QPSK	1720.00	10.54	V	4.44	9.60	15.70	37.14	30.00	-14.30	1/99	
		1745.00	11.38	V	4.47	9.68	16.58	45.48	30.00	-13.42	1/0	
		1770.00	11.91	V	4.51	9.70	17.11	51.37	30.00	-12.89	1/0	
	16-QAM	1720.00	9.89	V	4.44	9.60	15.05	31.98	30.00	-14.95	1/99	
		1745.00	10.81	V	4.47	9.68	16.01	39.89	30.00	-13.99	1/99	
		1770.00	11.23	V	4.51	9.70	16.42	43.85	30.00	-13.58	1/0	

LTE Band 71

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	665.50	23.32	H	2.79	-0.70	19.83	96.16	34.77	-14.94	1/24
		680.50	23.99	H	2.83	-0.74	20.42	110.15	34.77	-14.35	1/0
		695.50	23.80	H	2.86	-0.79	20.15	103.51	34.77	-14.62	1/12
	16-QAM	665.50	22.32	H	2.79	-0.70	18.83	76.38	34.77	-15.94	1/24
		680.50	22.77	H	2.83	-0.74	19.20	83.18	34.77	-15.57	1/0
		695.50	22.73	H	2.86	-0.79	19.08	80.91	34.77	-15.69	1/12
10	QPSK	668.00	23.64	H	2.81	-0.70	20.13	103.04	34.77	-14.64	1/49
		680.50	24.19	H	2.83	-0.74	20.62	115.35	34.77	-14.15	1/49
		693.00	24.79	H	2.86	-0.78	21.16	130.62	34.77	-13.61	1/0
	16-QAM	668.00	22.61	H	2.81	-0.70	19.10	81.28	34.77	-15.67	1/49
		680.50	22.85	H	2.83	-0.74	19.28	84.72	34.77	-15.49	1/0
		693.00	23.65	H	2.86	-0.78	20.02	100.46	34.77	-14.75	1/0
15	QPSK	670.50	23.25	H	2.81	-0.71	19.73	93.97	34.77	-15.04	1/74
		680.50	23.61	H	2.83	-0.74	20.04	100.93	34.77	-14.73	1/0
		690.50	23.73	H	2.85	-0.77	20.11	102.57	34.77	-14.66	1/0
	16-QAM	670.50	22.41	H	2.81	-0.71	18.89	77.45	34.77	-15.88	1/74
		680.50	22.70	H	2.83	-0.74	19.13	81.85	34.77	-15.64	1/0
		690.50	22.85	H	2.85	-0.77	19.23	83.75	34.77	-15.54	1/0
20	QPSK	673.00	23.08	H	2.81	-0.72	19.55	90.16	34.77	-15.22	1/49
		680.50	23.35	H	2.83	-0.74	19.78	95.06	34.77	-14.99	1/0
		688.00	23.77	H	2.85	-0.76	20.16	103.75	34.77	-14.61	1/0
	16-QAM	673.00	22.12	H	2.81	-0.72	18.59	72.28	34.77	-16.18	1/49
		680.50	22.25	H	2.83	-0.74	18.68	73.79	34.77	-16.09	1/0
		688.00	22.51	H	2.85	-0.76	18.90	77.62	34.77	-15.87	1/0

5G NR n5

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	826.50	22.56	H	3.11	-0.84	18.61	72.61	38.50	-19.89	1/1
		836.50	21.26	H	3.13	-0.93	17.20	52.48	38.50	-21.30	1/23
		846.50	21.61	H	3.14	-1.02	17.45	55.59	38.50	-21.05	1/1
	16-QAM	826.50	22.32	H	3.11	-0.84	18.37	68.71	38.50	-20.13	1/1
		836.50	20.78	H	3.13	-0.93	16.82	48.08	38.50	-21.78	1/23
		846.50	21.33	H	3.14	-1.02	17.17	52.12	38.50	-21.33	1/1
10	QPSK	829.00	22.23	H	3.11	-0.86	18.26	66.99	38.50	-20.24	1/50
		836.50	21.47	H	3.13	-0.93	17.41	55.08	38.50	-21.09	1/50
		844.00	22.00	H	3.14	-1.00	17.87	61.24	38.50	-20.63	1/1
	16-QAM	829.00	20.93	H	3.11	-0.86	16.96	49.66	38.50	-21.54	1/50
		836.50	19.67	H	3.13	-0.93	15.61	36.39	38.50	-22.89	1/50
		844.00	21.83	H	3.14	-1.00	17.70	58.88	38.50	-20.80	1/1
15	QPSK	831.50	23.41	H	3.11	-0.88	19.41	87.30	38.50	-19.09	1/1
		836.50	22.52	H	3.13	-0.93	18.46	70.15	38.50	-20.04	1/1
		841.50	22.42	H	3.13	-0.97	18.32	67.92	38.50	-20.18	1/1
	16-QAM	831.50	22.25	H	3.11	-0.88	18.25	66.83	38.50	-20.25	1/1
		836.50	21.36	H	3.13	-0.93	17.30	53.70	38.50	-21.20	1/1
		841.50	21.33	H	3.13	-0.97	17.23	52.84	38.50	-21.27	1/1
20	QPSK	834.00	23.03	H	3.12	-0.91	19.00	79.43	38.50	-19.50	1/1
		836.50	22.88	H	3.13	-0.93	18.82	76.21	38.50	-19.68	1/53
		839.00	22.25	H	3.13	-0.95	18.17	65.61	38.50	-20.33	1/1
	16-QAM	834.00	21.92	H	3.12	-0.91	17.89	61.52	38.50	-20.61	1/1
		836.50	21.47	H	3.13	-0.93	17.41	55.08	38.50	-21.09	1/53
		839.00	20.84	H	3.13	-0.95	16.76	47.42	38.50	-21.74	1/1

5G NR n25

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	1852.50	20.13	V	4.62	9.62	25.14	326.59	33.00	-7.86	1/23
		1882.50	21.22	V	4.65	9.35	25.91	389.94	33.00	-7.09	1/1
		1912.50	18.97	V	4.69	9.03	23.32	214.78	33.00	-9.68	1/1
	16-QAM	1852.50	19.52	V	4.62	9.62	24.53	283.79	33.00	-8.47	1/23
		1882.50	20.51	V	4.65	9.35	25.20	331.13	33.00	-7.80	1/1
		1912.50	18.37	V	4.69	9.03	22.72	187.07	33.00	-10.28	1/1
10	QPSK	1855.00	20.59	V	4.62	9.60	25.57	360.58	33.00	-7.43	1/50
		1882.50	20.90	V	4.65	9.35	25.59	362.24	33.00	-7.41	1/1
		1910.00	19.04	V	4.68	9.07	23.42	219.79	33.00	-9.58	1/1
	16-QAM	1855.00	19.76	V	4.62	9.60	24.74	297.85	33.00	-8.26	1/50
		1882.50	20.14	V	4.65	9.35	24.83	304.09	33.00	-8.17	1/1
		1910.00	18.21	V	4.68	9.07	22.59	181.55	33.00	-10.41	1/1
15	QPSK	1857.50	20.56	V	4.63	9.58	25.51	355.63	33.00	-7.49	1/77
		1882.50	20.88	V	4.65	9.35	25.57	360.58	33.00	-7.43	1/1
		1907.50	20.61	V	4.69	9.10	25.02	317.69	33.00	-7.98	1/1
	16-QAM	1857.50	19.80	V	4.63	9.58	24.75	298.54	33.00	-8.25	1/77
		1882.50	20.12	V	4.65	9.35	24.81	302.69	33.00	-8.19	1/1
		1907.50	19.96	V	4.69	9.10	24.37	273.53	33.00	-8.63	1/1
20	QPSK	1860.00	20.33	V	4.63	9.55	25.26	335.74	33.00	-7.74	1/104
		1882.50	21.05	V	4.65	9.35	25.74	374.97	33.00	-7.26	1/1
		1905.00	20.12	V	4.68	9.13	24.57	286.42	33.00	-8.43	1/1
	16-QAM	1860.00	19.57	V	4.63	9.55	24.50	281.84	33.00	-8.50	1/104
		1882.50	20.35	V	4.65	9.35	25.04	319.15	33.00	-7.96	1/1
		1905.00	19.32	V	4.68	9.13	23.77	238.23	33.00	-9.23	1/1
25	QPSK	1862.50	18.36	V	4.63	9.53	23.26	211.84	33.00	-9.74	1/67
		1882.50	19.54	V	4.65	9.35	24.23	264.85	33.00	-8.77	1/1
		1902.50	18.61	V	4.68	9.16	23.09	203.70	33.00	-9.91	1/1
	16-QAM	1862.50	17.73	V	4.63	9.53	22.63	183.23	33.00	-10.37	1/67
		1882.50	18.87	V	4.65	9.35	23.56	226.99	33.00	-9.44	1/1
		1902.50	17.80	V	4.68	9.16	22.28	169.04	33.00	-10.72	1/1
30	QPSK	1865.00	18.58	V	4.63	9.51	23.46	221.82	33.00	-9.54	1/80
		1882.50	19.62	V	4.65	9.35	24.31	269.77	33.00	-8.69	1/1
		1900.00	19.14	V	4.67	9.19	23.65	231.74	33.00	-9.35	1/1
	16-QAM	1865.00	17.90	V	4.63	9.51	22.78	189.67	33.00	-10.22	1/80
		1882.50	19.00	V	4.65	9.35	23.69	233.88	33.00	-9.31	1/1
		1900.00	18.50	V	4.67	9.19	23.01	199.99	33.00	-9.99	1/1
40	QPSK	1870.00	19.58	V	4.64	9.46	24.40	275.42	33.00	-8.60	1/108
		1882.50	19.43	V	4.65	9.35	24.12	258.23	33.00	-8.88	1/108
		1895.00	19.24	V	4.67	9.24	23.81	240.44	33.00	-9.19	1/1
	16-QAM	1870.00	18.90	V	4.64	9.46	23.72	235.50	33.00	-9.28	1/108
		1882.50	18.62	V	4.65	9.35	23.31	214.29	33.00	-9.69	1/108
		1895.00	18.41	V	4.67	9.24	22.98	198.61	33.00	-10.02	1/1

5G NR n30

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	2307.50	14.53	V	5.15	9.92	19.29	84.92	24.00	-4.71	1/23
		2310.00	15.28	V	5.16	9.93	20.05	101.16	24.00	-3.95	1/13
		2312.50	16.06	V	5.15	9.94	20.86	121.90	24.00	-3.14	1/13
	16-QAM	2311.10	13.99	V	5.16	9.94	18.77	75.34	24.00	-5.23	1/23
		2310.00	14.72	V	5.16	9.93	19.49	88.92	24.00	-4.51	1/13
		2308.90	15.23	V	5.15	9.93	20.01	100.23	24.00	-3.99	1/13
10	QPSK	2310.00	17.15	V	5.16	9.93	21.92	155.60	24.00	-2.08	1/26
	16-QAM	2310.00	16.15	V	5.16	9.93	20.92	123.59	24.00	-3.08	1/26

5G NR n41(PC2)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	BPSK	2506.01	19.59	H	5.37	10.16	24.38	274.16	33.00	-8.62	1/1
		2592.99	20.33	H	5.47	10.03	24.90	309.03	33.00	-8.10	1/1
		2680.00	19.82	H	5.56	10.05	24.31	269.77	33.00	-8.69	1/1
	16-QAM	2506.01	19.03	H	5.37	10.16	23.82	240.99	33.00	-9.18	1/1
		2592.99	19.73	H	5.47	10.03	24.30	269.15	33.00	-8.70	1/1
		2680.00	18.92	V	5.56	10.05	23.41	219.28	33.00	-9.59	1/1
30	BPSK	2511.01	19.91	H	5.39	10.16	24.68	293.76	33.00	-8.32	1/1
		2592.99	20.43	H	5.47	10.03	25.00	316.23	33.00	-8.00	1/1
		2675.00	19.70	H	5.56	10.05	24.19	262.42	33.00	-8.81	1/1
	16-QAM	2511.01	19.38	H	5.39	10.16	24.15	260.02	33.00	-8.85	1/1
		2592.99	19.73	H	5.47	10.03	24.30	269.15	33.00	-8.70	1/1
		2675.00	19.00	H	5.56	10.05	23.49	223.36	33.00	-9.51	1/1
40	BPSK	2516.01	19.77	H	5.38	10.15	24.54	284.45	33.00	-8.46	1/1
		2592.99	20.93	H	5.47	10.03	25.50	354.81	33.00	-7.50	1/1
		2670.00	19.93	H	5.55	10.04	24.43	277.33	33.00	-8.57	1/1
	16-QAM	2516.01	20.16	H	5.38	10.15	24.93	311.17	33.00	-8.07	1/1
		2592.99	20.23	H	5.47	10.03	24.80	302.00	33.00	-8.20	1/1
		2670.00	19.23	H	5.55	10.04	23.73	236.05	33.00	-9.27	1/1
50	BPSK	2521.01	19.60	H	5.40	10.14	24.34	271.64	33.00	-8.66	1/1
		2592.99	21.02	H	5.47	10.03	25.59	362.24	33.00	-7.41	1/67
		2665.00	20.21	V	5.55	10.04	24.71	295.80	33.00	-8.29	1/1
	16-QAM	2521.01	19.82	V	5.40	10.14	24.56	285.76	33.00	-8.44	1/1
		2592.99	20.33	H	5.47	10.03	24.90	309.03	33.00	-8.10	1/67
		2665.00	19.51	V	5.55	10.04	24.01	251.77	33.00	-8.99	1/1
60	BPSK	2526.01	20.07	H	5.39	10.13	24.81	302.69	33.00	-8.19	1/1
		2592.99	20.83	H	5.47	10.03	25.40	346.74	33.00	-7.60	1/81
		2660.00	20.33	V	5.57	10.04	24.80	302.00	33.00	-8.20	1/1
	16-QAM	2526.01	19.41	H	5.39	10.13	24.15	260.02	33.00	-8.85	1/1
		2592.99	20.13	H	5.47	10.03	24.70	295.12	33.00	-8.30	1/81
		2660.00	19.63	V	5.57	10.04	24.10	257.04	33.00	-8.90	1/1
80	BPSK	2536.01	20.35	H	5.41	10.11	25.05	319.89	33.00	-7.95	1/1
		2592.99	20.43	H	5.47	10.03	25.00	316.23	33.00	-8.00	1/109
		2650.00	20.20	H	5.53	10.03	24.70	295.12	33.00	-8.30	1/1
	16-QAM	2536.01	19.82	H	5.41	10.11	24.52	283.14	33.00	-8.48	1/1
		2592.99	19.73	H	5.47	10.03	24.30	269.15	33.00	-8.70	1/109
		2650.00	19.50	H	5.53	10.03	24.00	251.19	33.00	-9.00	1/1
90	BPSK	2541.01	20.44	H	5.43	10.10	25.12	325.09	33.00	-7.88	1/1
		2592.99	20.73	H	5.47	10.03	25.30	338.84	33.00	-7.70	1/123
		2645.00	20.27	H	5.53	10.03	24.78	300.61	33.00	-8.22	1/1
	16-QAM	2541.01	19.85	H	5.43	10.10	24.53	283.79	33.00	-8.47	1/1
		2592.99	20.03	H	5.47	10.03	24.60	288.40	33.00	-8.40	1/123
		2645.00	19.57	H	5.53	10.03	24.08	255.86	33.00	-8.92	1/1
100	BPSK	2546.01	20.48	H	5.42	10.09	25.15	327.34	33.00	-7.85	1/1
		2592.99	20.89	H	5.47	10.03	25.46	351.56	33.00	-7.54	1/137
		2640.00	20.54	H	5.52	10.03	25.05	319.89	33.00	-7.95	1/1
	16-QAM	2546.01	19.81	H	5.42	10.09	24.48	280.54	33.00	-8.52	1/1
		2592.99	20.22	H	5.47	10.03	24.79	301.30	33.00	-8.21	1/137
		2640.00	19.98	H	5.52	10.03	24.49	281.19	33.00	-8.51	1/1

5G NR n66

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	1712.50	16.85	H	4.44	9.58	22.00	158.49	30.00	-8.00	1/13
		1745.00	17.82	H	4.47	9.69	23.03	200.91	30.00	-6.97	1/23
		1777.50	16.23	H	4.52	9.71	21.42	138.68	30.00	-8.58	1/23
	16-QAM	1712.50	16.06	H	4.44	9.58	21.21	132.13	30.00	-8.79	1/13
		1745.00	17.09	H	4.47	9.69	22.30	169.82	30.00	-7.70	1/23
		1777.50	15.59	H	4.52	9.71	20.78	119.67	30.00	-9.22	1/23
10	QPSK	1715.00	17.00	H	4.44	9.59	22.16	164.26	30.00	-7.84	1/50
		1745.00	17.14	H	4.47	9.69	22.35	171.67	30.00	-7.65	1/50
		1775.00	16.31	H	4.51	9.71	21.50	141.36	30.00	-8.50	1/50
	16-QAM	1715.00	16.29	H	4.44	9.59	21.45	139.49	30.00	-8.55	1/50
		1745.00	16.38	H	4.47	9.69	21.59	144.11	30.00	-8.41	1/50
		1775.00	15.59	H	4.51	9.71	20.78	119.77	30.00	-9.22	1/50
15	QPSK	1717.50	16.92	H	4.44	9.60	22.07	161.24	30.00	-7.93	1/77
		1745.00	17.33	H	4.47	9.69	22.54	179.35	30.00	-7.46	1/77
		1772.50	16.09	H	4.51	9.71	21.29	134.46	30.00	-8.71	1/77
	16-QAM	1717.50	16.08	H	4.44	9.60	21.23	132.89	30.00	-8.77	1/77
		1745.00	16.49	H	4.47	9.69	21.70	147.81	30.00	-8.30	1/77
		1772.50	15.28	H	4.51	9.71	20.48	111.58	30.00	-9.52	1/77
20	QPSK	1720.00	17.26	H	4.44	9.61	22.43	174.92	30.00	-7.57	1/1
		1745.00	16.97	H	4.47	9.69	22.18	165.08	30.00	-7.82	1/104
		1770.00	16.60	H	4.51	9.71	21.80	151.35	30.00	-8.20	1/1
	16-QAM	1720.00	16.19	H	4.44	9.61	21.36	136.72	30.00	-8.64	1/1
		1745.00	16.01	H	4.47	9.69	21.22	132.34	30.00	-8.78	1/104
		1770.00	15.68	H	4.51	9.71	20.88	122.46	30.00	-9.12	1/1
30	QPSK	1725.00	18.15	H	4.45	9.62	23.32	214.78	30.00	-6.68	1/158
		1745.00	18.22	H	4.47	9.69	23.43	220.14	30.00	-6.57	1/80
		1765.00	16.65	H	4.50	9.71	21.85	153.24	30.00	-8.15	1/80
	16-QAM	1725.00	17.15	H	4.45	9.62	22.32	170.61	30.00	-7.68	1/158
		1745.00	17.23	H	4.47	9.69	22.44	175.27	30.00	-7.56	1/80
		1765.00	15.69	H	4.50	9.71	20.89	122.85	30.00	-9.11	1/80
40	QPSK	1730.00	17.74	H	4.46	9.64	22.92	195.76	30.00	-7.08	1/108
		1745.00	18.06	H	4.47	9.69	23.27	212.18	30.00	-6.73	1/108
		1760.00	16.30	H	4.49	9.70	21.51	141.53	30.00	-8.49	1/108
	16-QAM	1730.00	17.00	H	4.46	9.64	22.18	165.09	30.00	-7.82	1/108
		1745.00	17.16	H	4.47	9.69	22.37	172.47	30.00	-7.63	1/108
		1760.00	15.33	H	4.49	9.70	20.54	113.20	30.00	-9.46	1/108

5G NR n70

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	1697.50	16.45	H	4.42	9.52	21.55	142.89	30.00	-8.45	1/23
		1702.50	16.59	H	4.42	9.54	21.72	148.59	30.00	-8.28	1/13
		1707.50	16.27	H	4.43	9.56	21.40	138.04	30.00	-8.60	1/23
	16-QAM	1697.50	16.00	H	4.42	9.52	21.10	128.82	30.00	-8.90	1/23
		1702.50	16.25	H	4.42	9.54	21.38	137.40	30.00	-8.62	1/13
		1707.50	16.04	H	4.43	9.56	21.17	130.92	30.00	-8.83	1/23
10	QPSK	1700.00	15.59	H	4.42	9.54	20.71	117.76	30.00	-9.29	1/50
		1702.50	16.79	H	4.42	9.54	21.92	155.60	30.00	-8.08	1/26
		1705.00	16.89	H	4.42	9.55	22.02	159.22	30.00	-7.98	1/26
	16-QAM	1700.00	14.57	H	4.42	9.54	19.69	93.11	30.00	-10.31	1/50
		1702.50	15.18	H	4.42	9.54	20.31	107.40	30.00	-9.69	1/26
		1705.00	16.45	H	4.42	9.55	21.58	143.88	30.00	-8.42	1/26
15	QPSK	1702.50	16.65	H	4.42	9.54	21.77	150.31	30.00	-8.23	1/77
	16QAM	1702.50	16.56	H	4.42	9.54	21.69	147.57	30.00	-8.31	1/77

5G NR n71

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	665.50	23.27	H	2.79	-0.70	19.78	95.06	34.77	-14.99	1/1
		680.50	23.28	H	2.83	-0.74	19.71	93.54	34.77	-15.06	1/13
		695.50	22.41	H	2.86	-0.79	18.76	75.16	34.77	-16.01	1/13
	16-QAM	665.50	21.90	H	2.79	-0.70	18.41	69.34	34.77	-16.36	1/1
		680.50	22.39	H	2.83	-0.74	18.82	76.21	34.77	-15.95	1/13
		695.50	21.32	H	2.86	-0.79	17.67	58.48	34.77	-17.10	1/13
10	QPSK	668.00	23.54	H	2.81	-0.70	20.03	100.69	34.77	-14.74	1/50
		680.50	23.20	H	2.83	-0.74	19.63	91.83	34.77	-15.14	1/50
		693.00	22.06	H	2.86	-0.78	18.43	69.66	34.77	-16.34	1/50
	16-QAM	668.00	22.48	H	2.81	-0.70	18.97	78.89	34.77	-15.80	1/50
		680.50	22.11	H	2.83	-0.74	18.54	71.45	34.77	-16.23	1/50
		693.00	20.90	H	2.86	-0.78	17.27	53.33	34.77	-17.50	1/50
15	QPSK	670.50	23.16	H	2.81	-0.71	19.64	92.04	34.77	-15.13	1/77
		680.50	23.18	H	2.83	-0.74	19.61	91.41	34.77	-15.16	1/1
		690.50	22.77	H	2.85	-0.77	19.15	82.22	34.77	-15.62	1/1
	16-QAM	670.50	22.32	H	2.81	-0.71	18.80	75.86	34.77	-15.97	1/77
		680.50	21.93	H	2.83	-0.74	18.36	68.55	34.77	-16.41	1/1
		690.50	21.72	H	2.85	-0.77	18.10	64.57	34.77	-16.67	1/1
20	QPSK	673.00	23.14	H	2.81	-0.72	19.61	91.41	34.77	-15.16	1/53
		680.50	22.86	H	2.83	-0.74	19.29	84.92	34.77	-15.48	1/104
		688.00	22.64	H	2.85	-0.76	19.03	79.98	34.77	-15.74	1/53
	16-QAM	673.00	22.29	H	2.81	-0.72	18.76	75.16	34.77	-16.01	1/53
		680.50	21.85	H	2.83	-0.74	18.28	67.30	34.77	-16.49	1/104
		688.00	21.49	H	2.85	-0.76	17.88	61.38	34.77	-16.89	1/53

5G NR n77(PC2) (3450 - 3550 MHz)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	BPSK	3460.02	21.41	V	6.32	10.60	25.70	371.54	30.00	-4.30	1/1
		3499.98	20.04	V	6.36	10.65	24.33	271.02	30.00	-5.67	1/1
		3540.00	21.08	V	6.38	10.71	25.41	347.54	30.00	-4.59	1/1
	16-QAM	3460.02	20.24	V	6.32	10.60	24.53	283.79	30.00	-5.47	1/1
		3499.98	19.18	V	6.36	10.65	23.47	222.33	30.00	-6.53	1/1
		3540.00	20.27	V	6.38	10.71	24.60	288.40	30.00	-5.40	1/1
30	BPSK	3465.00	19.63	V	6.32	10.61	23.91	246.04	30.00	-6.09	1/1
		3499.98	20.32	V	6.36	10.65	24.61	289.07	30.00	-5.39	1/1
		3535.02	21.20	V	6.38	10.71	25.53	357.27	30.00	-4.47	1/1
	16-QAM	3465.00	18.79	V	6.32	10.61	23.07	202.77	30.00	-6.93	1/1
		3499.98	19.54	V	6.36	10.65	23.83	241.55	30.00	-6.17	1/1
		3535.02	20.70	V	6.38	10.71	25.03	318.42	30.00	-4.97	1/1
40	BPSK	3470.01	19.71	V	6.33	10.61	23.99	250.61	30.00	-6.01	1/1
		3499.98	20.28	V	6.36	10.65	24.57	286.42	30.00	-5.43	1/104
		3529.98	21.13	V	6.38	10.70	25.45	350.75	30.00	-4.55	1/53
	16-QAM	3470.01	18.74	V	6.33	10.61	23.02	200.45	30.00	-6.98	1/1
		3499.98	19.30	V	6.36	10.65	23.59	228.56	30.00	-6.41	1/104
		3529.98	20.28	V	6.38	10.70	24.60	288.40	30.00	-5.40	1/53
50	BPSK	3475.02	19.56	V	6.34	10.62	23.84	242.10	30.00	-6.16	1/1
		3499.98	19.94	V	6.36	10.65	24.23	264.85	30.00	-5.77	1/67
		3525.00	20.87	V	6.38	10.69	25.18	329.61	30.00	-4.82	1/67
	16-QAM	3475.02	18.75	V	6.34	10.62	23.03	200.91	30.00	-6.97	1/1
		3499.98	19.08	V	6.36	10.65	23.37	217.27	30.00	-6.63	1/67
		3525.00	20.00	V	6.38	10.69	24.31	269.77	30.00	-5.69	1/67
60	BPSK	3480.00	19.91	V	6.34	10.62	24.20	263.03	30.00	-5.80	1/160
		3499.98	20.22	V	6.36	10.65	24.51	282.49	30.00	-5.49	1/81
		3519.99	20.95	V	6.38	10.68	25.25	334.97	30.00	-4.75	1/81
	16-QAM	3480.00	19.02	V	6.34	10.62	23.31	214.29	30.00	-6.69	1/160
		3499.98	19.13	V	6.36	10.65	23.42	219.79	30.00	-6.58	1/81
		3519.99	20.13	V	6.38	10.68	24.43	277.33	30.00	-5.57	1/81
70	BPSK	3485.01	19.59	V	6.34	10.63	23.87	243.78	30.00	-6.13	1/1
		3499.98	19.80	V	6.36	10.65	24.09	256.45	30.00	-5.91	1/95
		3514.98	20.49	V	6.37	10.67	24.78	300.61	30.00	-5.22	1/1
	16-QAM	3485.01	18.92	V	6.34	10.63	23.20	208.93	30.00	-6.80	1/1
		3499.98	19.11	V	6.36	10.65	23.40	218.78	30.00	-6.60	1/95
		3514.98	19.76	V	6.37	10.67	24.05	254.10	30.00	-5.95	1/1
80	BPSK	3490.02	19.85	V	6.35	10.63	24.13	258.82	30.00	-5.87	1/1
		3499.98	20.00	V	6.36	10.65	24.29	268.53	30.00	-5.71	1/109
		3510.00	20.46	V	6.37	10.66	24.75	298.54	30.00	-5.25	1/1
	16-QAM	3490.02	19.11	V	6.35	10.63	23.39	218.27	30.00	-6.61	1/1
		3499.98	19.15	V	6.36	10.65	23.44	220.80	30.00	-6.56	1/109
		3510.00	19.75	V	6.37	10.66	24.04	253.51	30.00	-5.96	1/1
90	BPSK	3495.00	20.72	V	6.35	10.64	25.01	316.81	30.00	-4.99	1/123
		3499.98	20.68	V	6.36	10.65	24.97	314.26	30.00	-5.03	1/123
		3504.00	21.27	V	6.37	10.65	25.56	359.72	30.00	-4.44	1/123
	16-QAM	3495.00	19.11	V	6.35	10.64	23.40	218.78	30.00	-6.60	1/123
		3499.98	19.53	V	6.36	10.65	23.82	240.99	30.00	-6.18	1/123
		3504.00	19.90	V	6.37	10.65	24.19	262.42	30.00	-5.81	1/123
100	BPSK	3499.98	19.96	V	6.36	10.65	25.25	334.97	30.00	-5.75	1/137
	16-QAM	3499.98	17.11	V	6.36	10.65	21.40	138.04	30.00	-8.60	1/137

5G NR n77(PC2) (3450 - 3550 MHz, SRS1)

BW (MHz)	f (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								
	3499.98								
	3540.00								
30	3465.00	2.04	H	6.32	10.61	6.32	4.29	30.00	-23.68
	3499.98	1.56	H	6.36	10.65	5.85	3.85	30.00	-24.15
	3534.00	1.23	H	6.38	10.70	5.55	3.59	30.00	-24.45
40	3470.01								
	3499.98								
	3529.98								
50	3475.02								
	3499.98								
	3525.00								
60	3480.00								
	3499.98								
	3519.99								
70	3485.01								
	3499.98								
	3514.98								
80	3490.02								
	3499.98								
	3510.00								
90	3495.00								
	3499.98								
	3504.99								
100	3949.98								

5G NR n77(PC2) (3450 - 3550 MHz, SRS2)

BW (MHz)	f (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								
	3499.98								
	3540.00								
30	3465.00	13.43	H	6.32	10.61	17.71	59.02	30.00	-12.29
	3499.98	12.29	H	6.36	10.65	16.58	45.50	30.00	-13.42
	3534.00	13.16	H	6.38	10.70	17.48	55.98	30.00	-12.52
40	3470.01								
	3499.98								
	3529.98								
50	3475.02								
	3499.98								
	3525.00								
60	3480.00								
	3499.98								
	3519.99								
70	3485.01								
	3499.98								
	3514.98								
80	3490.02								
	3499.98								
	3510.00								
90	3495.00								
	3499.98								
	3504.99								
100	3949.98								

5G NR n77(PC2) (3450 - 3550 MHz, SRS3)

BW (MHz)	f (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								
	3499.98								
	3540.00								
30	3465.00	8.99	V	6.32	10.61	13.27	21.23	30.00	-16.73
	3499.98	8.30	V	6.36	10.65	12.59	18.16	30.00	-17.41
	3535.02	8.37	V	6.38	10.71	12.69	18.58	30.00	-17.31
40	3470.01								
	3499.98								
	3529.98								
50	3475.02								
	3499.98								
	3525.00								
60	3480.00								
	3499.98								
	3519.99								
70	3485.01								
	3499.98								
	3514.98								
80	3490.02								
	3499.98								
	3510.00								
90	3495.00								
	3499.98								
	3504.99								
100	3949.98								

5G NR n77(PC2) (3700 - 3980 MHz)

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)	RB
20	BPSK	3710.01	20.38	H	6.55	10.80	24.64	291.07	30.00	-5.36	1/49
		3840.00	21.13	H	6.65	10.65	25.12	325.09	30.00	-4.88	1/1
		3969.99	21.69	H	6.77	10.62	25.55	358.92	30.00	-4.45	1/1
	16-QAM	3710.01	19.48	H	6.55	10.80	23.74	236.59	30.00	-6.26	1/49
		3840.00	20.24	H	6.65	10.65	24.23	264.85	30.00	-5.77	1/1
		3969.99	20.81	H	6.77	10.62	24.67	293.09	30.00	-5.33	1/1
30	BPSK	3715.02	20.57	H	6.55	10.80	24.82	303.39	30.00	-5.18	1/76
		3840.00	21.25	H	6.65	10.65	25.24	334.20	30.00	-4.76	1/1
		3964.98	21.88	H	6.77	10.62	25.73	374.11	30.00	-4.27	1/1
	16-QAM	3715.02	19.70	H	6.55	10.80	23.95	248.31	30.00	-6.05	1/76
		3840.00	20.36	H	6.65	10.65	24.35	272.27	30.00	-5.65	1/1
		3964.98	20.39	H	6.77	10.62	24.24	265.46	30.00	-5.76	1/1
40	BPSK	3720.02	20.47	H	6.55	10.79	24.71	295.80	30.00	-5.29	1/104
		3840.00	21.18	H	6.65	10.65	25.17	328.85	30.00	-4.83	1/1
		3960.00	21.96	H	6.77	10.62	25.81	381.07	30.00	-4.19	1/1
	16-QAM	3720.02	19.56	H	6.55	10.79	23.80	239.88	30.00	-6.20	1/104
		3840.00	20.29	H	6.65	10.65	24.28	267.92	30.00	-5.72	1/1
		3960.00	21.21	H	6.77	10.62	25.06	320.63	30.00	-4.94	1/1
50	BPSK	3725.01	20.53	H	6.56	10.79	24.75	298.54	30.00	-5.25	1/131
		3840.00	20.92	H	6.65	10.65	24.91	309.74	30.00	-5.09	1/1
		3954.99	21.86	H	6.75	10.62	25.73	374.11	30.00	-4.27	1/1
	16-QAM	3725.01	19.51	H	6.56	10.79	23.73	236.05	30.00	-6.27	1/131
		3840.00	20.00	H	6.65	10.65	23.99	250.61	30.00	-6.01	1/1
		3954.99	20.99	H	6.75	10.62	24.86	306.20	30.00	-5.14	1/1
60	BPSK	3730.02	20.67	H	6.56	10.78	24.88	307.61	30.00	-5.12	1/160
		3840.00	21.01	H	6.65	10.65	25.00	316.23	30.00	-5.00	1/1
		3949.98	22.02	H	6.75	10.62	25.89	388.15	30.00	-4.11	1/1
	16-QAM	3730.02	19.44	H	6.56	10.78	23.65	231.74	30.00	-6.35	1/160
		3840.00	20.04	H	6.65	10.65	24.03	252.93	30.00	-5.97	1/1
		3949.98	21.11	H	6.75	10.62	24.98	314.77	30.00	-5.02	1/1
70	BPSK	3735.02	20.62	H	6.57	10.77	24.82	303.39	30.00	-5.18	1/188
		3840.00	20.67	H	6.65	10.65	24.66	292.42	30.00	-5.34	1/1
		3944.98	21.87	H	6.75	10.62	25.74	374.97	30.00	-4.26	1/188
	16-QAM	3735.02	19.71	H	6.57	10.77	23.91	246.04	30.00	-6.09	1/188
		3840.00	19.70	H	6.65	10.65	23.69	233.88	30.00	-6.31	1/1
		3944.98	20.95	H	6.75	10.62	24.82	303.39	30.00	-5.18	1/188
80	BPSK	3740.01	20.70	H	6.58	10.77	24.89	308.32	30.00	-5.11	1/215
		3840.00	20.84	H	6.65	10.65	24.83	304.09	30.00	-5.17	1/1
		3939.99	21.96	H	6.74	10.62	25.83	382.82	30.00	-4.17	1/215
	16-QAM	3740.01	19.82	H	6.58	10.77	24.01	251.77	30.00	-5.99	1/215
		3840.00	19.88	H	6.65	10.65	23.87	243.78	30.00	-6.13	1/1
		3939.99	20.90	H	6.74	10.62	24.77	299.92	30.00	-5.23	1/215
90	BPSK	3745.02	20.91	H	6.57	10.76	25.10	323.59	30.00	-4.90	1/243
		3840.00	20.81	H	6.65	10.65	24.80	302.00	30.00	-5.20	1/1
		3934.98	21.83	H	6.75	10.62	25.70	371.54	30.00	-4.30	1/243
	16-QAM	3745.02	19.92	H	6.57	10.76	24.11	257.63	30.00	-5.89	1/243
		3840.00	19.85	H	6.65	10.65	23.84	242.10	30.00	-6.16	1/1
		3934.98	20.96	H	6.75	10.62	24.83	304.09	30.00	-5.17	1/243
100	BPSK	3750.00	20.98	H	6.58	10.75	25.15	327.34	30.00	-4.85	1/137
		3840.00	20.79	H	6.65	10.65	24.78	300.61	30.00	-5.22	1/1
		3930.00	21.76	H	6.75	10.62	25.63	365.59	30.00	-4.37	1/271
	16-QAM	3750.00	20.13	H	6.58	10.75	24.30	269.15	30.00	-5.70	1/137
		3840.00	19.74	H	6.65	10.65	23.73	236.05	30.00	-6.27	1/1
		3930.00	20.92	H	6.75	10.62	24.79	301.30	30.00	-5.21	1/271

5G NR n77(PC2) (3700 - 3980 MHz, SRS1)

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3710.01								
	3840.00								
	3969.99								
30	3715.02								
	3840.00								
	3964.98								
40	3720.00	0.03	H	6.55	10.79	4.26	2.67	30.00	-25.74
	3840.00	1.18	H	6.65	10.65	5.17	3.29	30.00	-24.83
	3960.00	-1.26	H	6.77	10.62	2.59	1.82	30.00	-27.41
50	3725.01								
	3840.00								
	3954.99								
60	3730.02								
	3840.00								
	3949.98								
70	3735.02								
	3840.00								
	3944.98								
80	3740.01								
	3840.00								
	3939.99								
90	3745.02								
	3840.00								
	3934.98								
100	3750.00								
	3840.00								
	3930.00								

5G NR n77(PC2) (3700 - 3980 MHz, SRS2)

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3710.01								
	3840.00								
	3969.99								
30	3715.02								
	3840.00								
	3964.98								
40	3720.00	16.35	V	6.55	10.79	20.59	114.55	30.00	-9.41
	3840.00	17.36	V	6.65	10.65	21.35	136.46	30.00	-8.65
	3960.00	16.14	H	6.77	10.62	19.99	99.77	30.00	-10.01
50	3725.01								
	3840.00								
	3954.99								
60	3730.02								
	3840.00								
	3949.98								
70	3735.02								
	3840.00								
	3944.98								
80	3740.01								
	3840.00								
	3939.99								
90	3745.02								
	3840.00								
	3934.98								
100	3750.00								
	3840.00								
	3930.00								

5G NR n77(PC2) (3700 - 3980 MHz, SRS3)

BW (MHz)	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Delta (dB)
20	3710.01								
	3840.00								
	3969.99								
30	3715.02								
	3840.00								
	3964.98								
40	3720.00	10.22	H	6.55	10.79	14.45	27.86	30.00	-15.55
	3840.00	9.62	H	6.65	10.65	13.61	22.96	30.00	-16.39
	3960.00	10.59	H	6.77	10.62	14.44	27.80	30.00	-15.56
50	3725.01								
	3840.00								
	3954.99								
60	3730.02								
	3840.00								
	3949.98								
70	3735.02								
	3840.00								
	3944.98								
80	3740.01								
	3840.00								
	3939.99								
90	3745.02								
	3840.00								
	3934.98								
100	3750.00								
	3840.00								
	3930.00								

9.6. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691

LIMIT

Part 22.917(a) & Part 24.238(a) & Part 27.53(h) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

Part 27.53:

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

(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.

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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 1GHz and 1MHz for emissions above 1GHz
- 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(GSM, LTE TDD, 5G NR TDD);

RESULTS

See the following pages.

NOTE1

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.

9.6.1. SPURIOUS RADIATION PLOTS

GSM850

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4790379967 Date: 5/23/2022 Test Engineer: 25546 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: GPRS 850 MHz Harmonics 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, 824.2MHz										
1648.40	-6.2	V	3.0	45.6	1.0	-50.8	-13.0	-37.8		
2472.60	-1.5	V	3.0	45.4	1.0	-45.9	-13.0	-32.9		
3296.80	-4.1	V	3.0	45.7	1.0	-48.8	-13.0	-35.8		
1648.40	-6.2	H	3.0	45.6	1.0	-50.8	-13.0	-37.8		
2472.60	-2.0	H	3.0	45.4	1.0	-46.4	-13.0	-33.4		
3296.80	-4.5	H	3.0	45.7	1.0	-49.2	-13.0	-36.2		
Mid Ch, 836.6MHz										
1673.20	-7.6	V	3.0	45.6	1.0	-52.2	-13.0	-39.2		
2509.80	-3.2	V	3.0	45.5	1.0	-47.6	-13.0	-34.6		
3346.40	-3.9	V	3.0	45.7	1.0	-48.6	-13.0	-35.6		
1673.20	-6.4	H	3.0	45.6	1.0	-51.0	-13.0	-38.0		
2509.80	-4.6	H	3.0	45.5	1.0	-49.0	-13.0	-36.0		
3346.40	-4.4	H	3.0	45.7	1.0	-49.1	-13.0	-36.1		
High Ch, 848.8MHz										
1697.60	-4.9	V	3.0	45.6	1.0	-49.4	-13.0	-36.4		
2546.40	-4.6	V	3.0	45.5	1.0	-49.0	-13.0	-36.0		
3395.20	-3.7	V	3.0	45.7	1.0	-48.4	-13.0	-35.4		
1697.60	-7.4	H	3.0	45.6	1.0	-51.9	-13.0	-38.9		
2546.40	-5.8	H	3.0	45.5	1.0	-50.3	-13.0	-37.3		
3395.20	-4.1	H	3.0	45.7	1.0	-48.8	-13.0	-35.8		

GSM850
GPRS

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/24/2022							
Test Engineer:		25546							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		EGPRS 850 MHz Harmonics							
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
GSM850									
EGPRS									
Low Ch, 824.2MHz									
1648.40	-6.5	V	3.0	45.6	1.0	-51.1	-13.0	-38.1	
2472.60	-2.2	V	3.0	45.4	1.0	-46.6	-13.0	-33.6	
3296.80	-4.0	V	3.0	45.7	1.0	-48.7	-13.0	-35.7	
1648.40	-6.4	H	3.0	45.6	1.0	-51.0	-13.0	-38.0	
2472.60	-3.3	H	3.0	45.4	1.0	-47.7	-13.0	-34.7	
3296.80	-4.0	H	3.0	45.7	1.0	-48.7	-13.0	-35.7	
Mid Ch, 836.6MHz									
1673.20	-8.2	V	3.0	45.6	1.0	-52.8	-13.0	-39.8	
2509.80	-6.4	V	3.0	45.5	1.0	-50.9	-13.0	-37.9	
3346.40	-4.1	V	3.0	45.7	1.0	-48.8	-13.0	-35.8	
1673.20	-7.8	H	3.0	45.6	1.0	-52.4	-13.0	-39.4	
2509.80	-5.4	H	3.0	45.5	1.0	-49.9	-13.0	-36.9	
3346.40	-3.7	H	3.0	45.7	1.0	-48.4	-13.0	-35.4	
High Ch, 848.8MHz									
1697.60	-4.8	V	3.0	45.6	1.0	-49.4	-13.0	-36.4	
2546.40	-6.1	V	3.0	45.5	1.0	-50.6	-13.0	-37.6	
3395.20	-0.8	V	3.0	45.7	1.0	-45.5	-13.0	-32.5	
1697.60	-7.4	H	3.0	45.6	1.0	-52.0	-13.0	-39.0	
2546.40	-6.8	H	3.0	45.5	1.0	-51.2	-13.0	-38.2	
3395.20	-4.1	H	3.0	45.7	1.0	-48.8	-13.0	-35.8	

GSM1900

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
GSM1900 GPRS		Company: Samsung Project #: 4790379967 Date: 6/9/2022 Test Engineer: 26087 Configuration: EUT / Earphone, Z-Position Location: Chamber 2 Mode: GPRS 1900 MHz 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, 1850.2MHz										
		3700.40	-5.5	V	3.0	42.3	1.0	-46.8	-13.0	-33.8		
		5550.60	-5.2	V	3.0	43.1	1.0	-47.3	-13.0	-34.3		
		7400.80	-1.0	V	3.0	42.7	1.0	-42.7	-13.0	-29.7		
		3700.40	-3.1	H	3.0	42.3	1.0	-44.4	-13.0	-31.4		
		5550.60	-5.4	H	3.0	43.1	1.0	-47.5	-13.0	-34.5		
		7400.80	-2.5	H	3.0	42.7	1.0	-44.2	-13.0	-31.2		
		Mid Ch, 1880MHz										
3760.00	-6.1	V	3.0	42.3	1.0	-47.4	-13.0	-34.4				
5640.00	-4.8	V	3.0	43.2	1.0	-46.9	-13.0	-33.9				
7520.00	0.3	V	3.0	42.7	1.0	-41.3	-13.0	-28.3				
3760.00	-2.7	H	3.0	42.3	1.0	-44.0	-13.0	-31.0				
5640.00	-5.4	H	3.0	43.2	1.0	-47.5	-13.0	-34.5				
7520.00	-0.5	H	3.0	42.7	1.0	-42.2	-13.0	-29.2				
High Ch, 1909.8MHz												
3819.60	-6.0	V	3.0	42.3	1.0	-47.4	-13.0	-34.4				
5729.40	-5.4	V	3.0	43.2	1.0	-47.6	-13.0	-34.6				
7639.20	0.4	V	3.0	42.6	1.0	-41.2	-13.0	-28.2				
3819.60	-6.1	H	3.0	42.3	1.0	-47.4	-13.0	-34.4				
5729.40	-5.3	H	3.0	43.2	1.0	-47.5	-13.0	-34.5				
7639.20	0.3	H	3.0	42.6	1.0	-41.3	-13.0	-28.3				

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
GSM1900 EGPRS		Company: Samsung Project #: 4790379967 Date: 6/9/2022 Test Engineer: 26087 Configuration: EUT / Earphone, Z-Position Location: Chamber 2 Mode: EGPRS 1900 MHz 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, 1850.2MHz										
		3700.40	-4.9	V	3.0	42.3	1.0	-46.3	-13.0	-33.3		
		5550.60	-5.5	V	3.0	43.1	1.0	-47.6	-13.0	-34.6		
		7400.80	-1.9	V	3.0	42.7	1.0	-43.6	-13.0	-30.6		
		3700.40	-4.6	H	3.0	42.3	1.0	-45.9	-13.0	-32.9		
		5550.60	-5.6	H	3.0	43.1	1.0	-47.8	-13.0	-34.8		
		7400.80	-2.4	H	3.0	42.7	1.0	-44.2	-13.0	-31.2		
		Mid Ch, 1880MHz										
3760.00	-6.1	V	3.0	42.3	1.0	-47.4	-13.0	-34.4				
5640.00	-5.4	V	3.0	43.2	1.0	-47.5	-13.0	-34.5				
7520.00	-1.1	V	3.0	42.7	1.0	-42.8	-13.0	-29.8				
3760.00	-5.8	H	3.0	42.3	1.0	-47.2	-13.0	-34.2				
5640.00	-5.3	H	3.0	43.2	1.0	-47.4	-13.0	-34.4				
7520.00	-1.2	H	3.0	42.7	1.0	-42.9	-13.0	-29.9				
High Ch, 1909.8MHz												
3819.60	-7.2	V	3.0	42.3	1.0	-48.5	-13.0	-35.5				
5729.40	-5.3	V	3.0	43.2	1.0	-47.5	-13.0	-34.5				
7639.20	-0.5	V	3.0	42.6	1.0	-42.1	-13.0	-29.1				
3819.60	-8.0	H	3.0	42.3	1.0	-49.3	-13.0	-36.3				
5729.40	-5.8	H	3.0	43.2	1.0	-48.0	-13.0	-35.0				
7639.20	0.3	H	3.0	42.6	1.0	-41.3	-13.0	-28.3				

WCDMA Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/13/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		Rel99 Band 5 Harmonics							
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, 826.4MHz									
1652.80	-15.3	V	3.0	45.6	1.0	-59.9	-13.0	-46.9	
2479.20	-11.9	V	3.0	45.5	1.0	-56.4	-13.0	-43.4	
3305.60	-9.5	V	3.0	45.7	1.0	-54.2	-13.0	-41.2	
1652.80	-16.4	H	3.0	45.6	1.0	-61.0	-13.0	-48.0	
2479.20	-12.5	H	3.0	45.5	1.0	-56.9	-13.0	-43.9	
3305.60	-9.6	H	3.0	45.7	1.0	-54.3	-13.0	-41.3	
Mid Ch, 836.6MHz									
1673.20	-15.1	V	3.0	45.6	1.0	-59.7	-13.0	-46.7	
2509.80	-12.0	V	3.0	45.5	1.0	-56.4	-13.0	-43.4	
3346.40	-9.5	V	3.0	45.7	1.0	-54.1	-13.0	-41.1	
1673.20	-16.3	H	3.0	45.6	1.0	-60.9	-13.0	-47.9	
2509.80	-12.3	H	3.0	45.5	1.0	-56.8	-13.0	-43.8	
3346.40	-9.4	H	3.0	45.7	1.0	-54.1	-13.0	-41.1	
High Ch, 846.6MHz									
1693.20	-15.2	V	3.0	45.6	1.0	-59.8	-13.0	-46.8	
2539.80	-11.8	V	3.0	45.5	1.0	-56.2	-13.0	-43.2	
3386.40	-8.9	V	3.0	45.7	1.0	-53.6	-13.0	-40.6	
1693.20	-16.1	H	3.0	45.6	1.0	-60.7	-13.0	-47.7	
2539.80	-12.2	H	3.0	45.5	1.0	-56.7	-13.0	-43.7	
3386.40	-9.0	H	3.0	45.7	1.0	-53.7	-13.0	-40.7	

Band 5
REL99

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/13/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		HSDPA Band 5 Harmonics							
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, 826.4MHz									
1652.80	-15.2	V	3.0	45.6	1.0	-59.8	-13.0	-46.8	
2479.20	-12.2	V	3.0	45.5	1.0	-56.6	-13.0	-43.6	
3305.60	-9.5	V	3.0	45.7	1.0	-54.2	-13.0	-41.2	
1652.80	-16.4	H	3.0	45.6	1.0	-61.0	-13.0	-48.0	
2479.20	-12.2	H	3.0	45.5	1.0	-56.7	-13.0	-43.7	
3305.60	-9.2	H	3.0	45.7	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.6MHz									
1673.20	-15.4	V	3.0	45.6	1.0	-60.0	-13.0	-47.0	
2509.80	-11.9	V	3.0	45.5	1.0	-56.4	-13.0	-43.4	
3346.40	-9.3	V	3.0	45.7	1.0	-53.9	-13.0	-40.9	
1673.20	-16.4	H	3.0	45.6	1.0	-61.0	-13.0	-48.0	
2509.80	-12.4	H	3.0	45.5	1.0	-56.9	-13.0	-43.9	
3346.40	-9.3	H	3.0	45.7	1.0	-54.0	-13.0	-41.0	
High Ch, 846.6MHz									
1693.20	-14.7	V	3.0	45.6	1.0	-59.3	-13.0	-46.3	
2539.80	-11.9	V	3.0	45.5	1.0	-56.3	-13.0	-43.3	
3386.40	-9.0	V	3.0	45.7	1.0	-53.7	-13.0	-40.7	
1693.20	-16.1	H	3.0	45.6	1.0	-60.7	-13.0	-47.7	
2539.80	-12.1	H	3.0	45.5	1.0	-56.6	-13.0	-43.6	
3386.40	-9.0	H	3.0	45.7	1.0	-53.7	-13.0	-40.7	

Band 5
HSDPA

WCDMA Band 4

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Band 4 REL99		Company:		Samsung								
		Project #:		4790379967								
		Date:		5/23/2022								
		Test Engineer:		19568								
		Configuration:		EUT / AC Adapter, X-Position								
		Location:		Chamber 1								
		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	-8.8	V	3.0	45.7	1.0	-53.5	-13.0	-40.5		
		5137.20	-8.8	V	3.0	45.8	1.0	-53.6	-13.0	-40.6		
		6849.60	-5.8	V	3.0	44.9	1.0	-49.7	-13.0	-36.7		
		3424.80	-8.8	H	3.0	45.7	1.0	-53.5	-13.0	-40.5		
		5137.20	-8.9	H	3.0	45.8	1.0	-53.7	-13.0	-40.7		
		6849.60	-6.0	H	3.0	44.9	1.0	-49.9	-13.0	-36.9		
		Mid Ch, 1732.6MHz										
		3465.20	-8.3	V	3.0	45.7	1.0	-53.0	-13.0	-40.0		
		5197.80	-8.8	V	3.0	45.8	1.0	-53.6	-13.0	-40.6		
6930.40	-5.6	V	3.0	44.8	1.0	-49.5	-13.0	-36.5				
3465.20	-8.2	H	3.0	45.7	1.0	-52.9	-13.0	-39.9				
5197.80	-8.5	H	3.0	45.8	1.0	-53.3	-13.0	-40.3				
6930.40	-5.3	H	3.0	44.8	1.0	-49.1	-13.0	-36.1				
High Ch, 1752.6MHz												
3505.20	-8.5	V	3.0	45.7	1.0	-53.3	-13.0	-40.3				
5257.80	-8.4	V	3.0	45.8	1.0	-53.2	-13.0	-40.2				
7010.40	-5.5	V	3.0	44.8	1.0	-49.3	-13.0	-36.3				
3505.20	-8.6	H	3.0	45.7	1.0	-53.3	-13.0	-40.3				
5257.80	-7.9	H	3.0	45.8	1.0	-52.7	-13.0	-39.7				
7010.40	-5.6	H	3.0	44.8	1.0	-49.4	-13.0	-36.4				
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Band 4 HSDPA		Company:		Samsung								
		Project #:		4790379967								
		Date:		5/23/2022								
		Test Engineer:		19568								
		Configuration:		EUT / AC Adapter, X-Position								
		Location:		Chamber 1								
		Mode:		HSDPA 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	-8.4	V	3.0	45.7	1.0	-53.1	-13.0	-40.1				
5137.20	-8.9	V	3.0	45.8	1.0	-53.7	-13.0	-40.7				
6849.60	-5.6	V	3.0	44.9	1.0	-49.5	-13.0	-36.5				
3424.80	-8.8	H	3.0	45.7	1.0	-53.5	-13.0	-40.5				
5137.20	-8.5	H	3.0	45.8	1.0	-53.3	-13.0	-40.3				
6849.60	-5.4	H	3.0	44.9	1.0	-49.3	-13.0	-36.3				
Mid Ch, 1732.6MHz												
3465.20	-8.5	V	3.0	45.7	1.0	-53.2	-13.0	-40.2				
5197.80	-8.7	V	3.0	45.8	1.0	-53.5	-13.0	-40.5				
6930.40	-5.5	V	3.0	44.8	1.0	-49.3	-13.0	-36.3				
3465.20	-8.7	H	3.0	45.7	1.0	-53.5	-13.0	-40.5				
5197.80	-8.5	H	3.0	45.8	1.0	-53.3	-13.0	-40.3				
6930.40	-5.7	H	3.0	44.8	1.0	-49.5	-13.0	-36.5				
High Ch, 1752.6MHz												
3505.20	-8.5	V	3.0	45.7	1.0	-53.2	-13.0	-40.2				
5257.80	-8.5	V	3.0	45.8	1.0	-53.2	-13.0	-40.2				
7010.40	-5.5	V	3.0	44.8	1.0	-49.3	-13.0	-36.3				
3505.20	-7.6	H	3.0	45.7	1.0	-52.4	-13.0	-39.4				
5257.80	-8.2	H	3.0	45.8	1.0	-53.0	-13.0	-40.0				
7010.40	-5.8	H	3.0	44.8	1.0	-49.6	-13.0	-36.6				

WCDMA Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/30/2022							
Test Engineer:		45574							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		Rel99 Band 2 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, 1852.4MHz									
3704.80	-10.5	V	3.0	45.8	1.0	-55.3	-13.0	-42.3	
5557.20	-7.7	V	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7409.60	-5.7	V	3.0	44.6	1.0	-49.2	-13.0	-36.2	
3704.80	-10.5	H	3.0	45.8	1.0	-55.3	-13.0	-42.3	
5557.20	-7.8	H	3.0	45.7	1.0	-52.6	-13.0	-39.6	
7409.60	-5.5	H	3.0	44.6	1.0	-49.1	-13.0	-36.1	
Mid Ch, 1880MHz									
3760.00	-10.5	V	3.0	45.8	1.0	-55.3	-13.0	-42.3	
5640.00	-7.6	V	3.0	45.7	1.0	-52.3	-13.0	-39.3	
7520.00	-5.8	V	3.0	44.5	1.0	-49.3	-13.0	-36.3	
3760.00	-10.4	H	3.0	45.8	1.0	-55.2	-13.0	-42.2	
5640.00	-7.4	H	3.0	45.7	1.0	-52.2	-13.0	-39.2	
7520.00	-5.8	H	3.0	44.5	1.0	-49.3	-13.0	-36.3	
High Ch, 1907.6MHz									
3815.20	-10.5	V	3.0	45.8	1.0	-55.3	-13.0	-42.3	
5722.80	-7.5	V	3.0	45.7	1.0	-52.2	-13.0	-39.2	
7630.40	-5.4	V	3.0	44.4	1.0	-48.8	-13.0	-35.8	
3815.20	-10.6	H	3.0	45.8	1.0	-55.4	-13.0	-42.4	
5722.80	-7.4	H	3.0	45.7	1.0	-52.1	-13.0	-39.1	
7630.40	-5.4	H	3.0	44.4	1.0	-48.9	-13.0	-35.9	

Band 2
REL99

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/30/2022							
Test Engineer:		45574							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		HSDPA Band 2 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, 1852.4MHz									
3704.80	-10.8	V	3.0	45.8	1.0	-55.7	-13.0	-42.7	
5557.20	-7.9	V	3.0	45.7	1.0	-52.6	-13.0	-39.6	
7409.60	-5.8	V	3.0	44.6	1.0	-49.4	-13.0	-36.4	
3704.80	-10.8	H	3.0	45.8	1.0	-55.6	-13.0	-42.6	
5557.20	-8.0	H	3.0	45.7	1.0	-52.7	-13.0	-39.7	
7409.60	-5.8	H	3.0	44.6	1.0	-49.4	-13.0	-36.4	
Mid Ch, 1880MHz									
3760.00	-10.6	V	3.0	45.8	1.0	-55.4	-13.0	-42.4	
5640.00	-7.7	V	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7520.00	-5.7	V	3.0	44.5	1.0	-49.2	-13.0	-36.2	
3760.00	-10.7	H	3.0	45.8	1.0	-55.5	-13.0	-42.5	
5640.00	-7.7	H	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7520.00	-5.7	H	3.0	44.5	1.0	-49.2	-13.0	-36.2	
High Ch, 1907.6MHz									
3815.20	-10.6	V	3.0	45.8	1.0	-55.4	-13.0	-42.4	
5722.80	-7.7	V	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7630.40	-5.6	V	3.0	44.4	1.0	-49.0	-13.0	-36.0	
3815.20	-10.7	H	3.0	45.8	1.0	-55.6	-13.0	-42.6	
5722.80	-7.8	H	3.0	45.7	1.0	-52.5	-13.0	-39.5	
7630.40	-5.6	H	3.0	44.4	1.0	-49.0	-13.0	-36.0	

Band 2
HSDPA

LTE Band 7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/22/2022							
Test Engineer:		19568							
Configuration:		EUT, Z-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 7 Harmonics, 10MHz 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, 2505MHz									
5010.00	-19.7	V	3.0	45.8	1.0	-64.5	-25.0	-39.5	
7515.00	-11.6	V	3.0	44.5	1.0	-55.1	-25.0	-30.1	
10020.00	-13.6	V	3.0	42.6	1.0	-55.2	-25.0	-30.2	
10MHz									
5010.00	-19.5	H	3.0	45.8	1.0	-64.4	-25.0	-39.4	
7515.00	-11.3	H	3.0	44.5	1.0	-54.8	-25.0	-29.8	
10020.00	-13.8	H	3.0	42.6	1.0	-55.4	-25.0	-30.4	
QPSK									
Mid Ch, 2535MHz									
5070.00	-19.3	V	3.0	45.8	1.0	-64.1	-25.0	-39.1	
7605.00	-12.7	V	3.0	44.4	1.0	-56.2	-25.0	-31.2	
10140.00	-13.4	V	3.0	42.6	1.0	-55.0	-25.0	-30.0	
5070.00	-19.2	H	3.0	45.8	1.0	-64.0	-25.0	-39.0	
7605.00	-13.7	H	3.0	44.4	1.0	-57.2	-25.0	-32.2	
10140.00	-13.5	H	3.0	42.6	1.0	-55.1	-25.0	-30.1	
High Ch, 2565MHz									
5130.00	-19.5	V	3.0	45.8	1.0	-64.3	-25.0	-39.3	
7695.00	-14.4	V	3.0	44.4	1.0	-57.8	-25.0	-32.8	
10260.00	-13.5	V	3.0	42.7	1.0	-55.1	-25.0	-30.1	
5130.00	-18.7	H	3.0	45.8	1.0	-63.5	-25.0	-38.5	
7695.00	-14.3	H	3.0	44.4	1.0	-57.7	-25.0	-32.7	
10260.00	-13.2	H	3.0	42.7	1.0	-54.9	-25.0	-29.9	

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/24/2022							
Test Engineer:		25546							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 12 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, 701.5MHz									
1403.00	-16.9	V	3.0	45.8	1.0	-61.7	-13.0	-48.7	
2104.50	-3.0	V	3.0	45.4	1.0	-47.4	-13.0	-34.4	
2806.00	-10.8	V	3.0	45.5	1.0	-55.4	-13.0	-42.4	
1403.00	-17.9	H	3.0	45.8	1.0	-62.7	-13.0	-49.7	
2104.50	-5.9	H	3.0	45.4	1.0	-50.3	-13.0	-37.3	
2806.00	-11.3	H	3.0	45.5	1.0	-55.8	-13.0	-42.8	
Mid Ch, 707.5MHz									
1415.00	-16.9	V	3.0	45.8	1.0	-61.7	-13.0	-48.7	
2122.50	-9.1	V	3.0	45.4	1.0	-53.5	-13.0	-40.5	
2830.00	-11.1	V	3.0	45.5	1.0	-55.6	-13.0	-42.6	
1415.00	-18.0	H	3.0	45.8	1.0	-62.8	-13.0	-49.8	
2122.50	-10.8	H	3.0	45.4	1.0	-55.2	-13.0	-42.2	
2830.00	-11.3	H	3.0	45.5	1.0	-55.8	-13.0	-42.8	
High Ch, 713.5MHz									
1427.00	-16.7	V	3.0	45.8	1.0	-61.5	-13.0	-48.5	
2140.50	-5.6	V	3.0	45.4	1.0	-49.9	-13.0	-36.9	
2854.00	-10.8	V	3.0	45.5	1.0	-55.4	-13.0	-42.4	
1427.00	-17.4	H	3.0	45.8	1.0	-62.2	-13.0	-49.2	
2140.50	-9.2	H	3.0	45.4	1.0	-53.6	-13.0	-40.6	
2854.00	-10.7	H	3.0	45.5	1.0	-55.3	-13.0	-42.3	

LTE
 Band 12
 5MHz
 QPSK

LTE Band 13

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/27/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, X-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 13 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, 779.5MHz									
1559.00	-16.0	V	3.0	45.7	1.0	-60.7	-13.0	-47.7	
2338.50	-12.2	V	3.0	45.4	1.0	-56.6	-13.0	-43.6	
3118.00	-10.1	V	3.0	45.6	1.0	-54.8	-13.0	-41.8	
1559.00	-16.8	H	3.0	45.7	1.0	-61.4	-13.0	-48.4	
2338.50	-10.0	H	3.0	45.4	1.0	-54.4	-13.0	-41.4	
3118.00	-10.2	H	3.0	45.6	1.0	-54.8	-13.0	-41.8	
Mid Ch, 782MHz									
1564.00	-16.0	V	3.0	45.7	1.0	-60.7	-13.0	-47.7	
2346.00	-11.0	V	3.0	45.4	1.0	-55.4	-13.0	-42.4	
3128.00	-10.3	V	3.0	45.6	1.0	-54.9	-13.0	-41.9	
1564.00	-16.8	H	3.0	45.7	1.0	-61.5	-13.0	-48.5	
2346.00	-9.3	H	3.0	45.4	1.0	-53.7	-13.0	-40.7	
3128.00	-10.2	H	3.0	45.6	1.0	-54.8	-13.0	-41.8	
High Ch, 784.5MHz									
1569.00	-15.9	V	3.0	45.7	1.0	-60.6	-13.0	-47.6	
2353.50	-12.2	V	3.0	45.4	1.0	-56.6	-13.0	-43.6	
3138.00	-10.0	V	3.0	45.6	1.0	-54.7	-13.0	-41.7	
1569.00	-17.1	H	3.0	45.7	1.0	-61.7	-13.0	-48.7	
2353.50	-10.2	H	3.0	45.4	1.0	-54.7	-13.0	-41.7	
3138.00	-10.3	H	3.0	45.6	1.0	-54.9	-13.0	-41.9	

LTE
 Band 13
 5 MHz
 QPSK

LTE Band 14

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/26/2022							
Test Engineer:		25546							
Configuration:		EUT / AC Adapter, Y-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 14 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, 790.5MHz									
1581.00	-15.8	V	3.0	45.7	1.0	-60.5	-13.0	-47.5	
2371.50	-10.9	V	3.0	45.4	1.0	-55.3	-13.0	-42.3	
3162.00	-10.0	V	3.0	45.6	1.0	-54.7	-13.0	-41.7	
1581.00	-16.3	H	3.0	45.7	1.0	-61.0	-13.0	-48.0	
2371.50	-11.0	H	3.0	45.4	1.0	-55.4	-13.0	-42.4	
3162.00	-9.6	H	3.0	45.6	1.0	-54.2	-13.0	-41.2	
Mid Ch, 793MHz									
1586.00	-15.9	V	3.0	45.7	1.0	-60.6	-13.0	-47.6	
2379.00	-11.4	V	3.0	45.4	1.0	-55.8	-13.0	-42.8	
3172.00	-10.1	V	3.0	45.6	1.0	-54.8	-13.0	-41.8	
1586.00	-16.3	H	3.0	45.7	1.0	-61.0	-13.0	-48.0	
2379.00	-10.5	H	3.0	45.4	1.0	-54.9	-13.0	-41.9	
3172.00	-9.5	H	3.0	45.6	1.0	-54.1	-13.0	-41.1	
High Ch, 795.5MHz									
1591.00	-15.7	V	3.0	45.7	1.0	-60.4	-13.0	-47.4	
2386.50	-11.0	V	3.0	45.4	1.0	-55.4	-13.0	-42.4	
3182.00	-10.0	V	3.0	45.6	1.0	-54.6	-13.0	-41.6	
1591.00	-16.8	H	3.0	45.7	1.0	-61.5	-13.0	-48.5	
2386.50	-11.3	H	3.0	45.4	1.0	-55.8	-13.0	-42.8	
3182.00	-9.9	H	3.0	45.6	1.0	-54.5	-13.0	-41.5	

LTE
Band 14

10 MHz

QPSK

LTE Band 25(Main ANT)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		5/29/2022							
Test Engineer:		45574							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 25 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, 1855MHz									
3710.00	-7.3	V	3.0	45.8	1.0	-52.1	-13.0	-39.1	
5565.00	-7.9	V	3.0	45.7	1.0	-52.7	-13.0	-39.7	
7420.00	-5.6	V	3.0	44.5	1.0	-49.2	-13.0	-36.2	
10 MHz									
3710.00	-9.9	H	3.0	45.8	1.0	-54.7	-13.0	-41.7	
5565.00	-7.8	H	3.0	45.7	1.0	-52.6	-13.0	-39.6	
7420.00	-5.6	H	3.0	44.5	1.0	-49.1	-13.0	-36.1	
QPSK									
Mid Ch, 1882.5MHz									
3765.00	-8.0	V	3.0	45.8	1.0	-52.8	-13.0	-39.8	
5647.50	-7.3	V	3.0	45.7	1.0	-52.1	-13.0	-39.1	
7530.00	-5.6	V	3.0	44.5	1.0	-49.1	-13.0	-36.1	
3765.00	-7.3	H	3.0	45.8	1.0	-52.1	-13.0	-39.1	
5647.50	-7.8	H	3.0	45.7	1.0	-52.5	-13.0	-39.5	
7530.00	-5.7	H	3.0	44.5	1.0	-49.2	-13.0	-36.2	
High Ch, 1910MHz									
3820.00	-9.4	V	3.0	45.8	1.0	-54.2	-13.0	-41.2	
5730.00	-7.6	V	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7640.00	-5.6	V	3.0	44.4	1.0	-49.0	-13.0	-36.0	
3820.00	-8.4	H	3.0	45.8	1.0	-53.2	-13.0	-40.2	
5730.00	-7.8	H	3.0	45.7	1.0	-52.5	-13.0	-39.5	
7640.00	-5.6	H	3.0	44.4	1.0	-49.0	-13.0	-36.0	

LTE Band 25(Sub ANT)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		2022-06-13							
Test Engineer:		19568							
Configuration:		EUT, Z-Position							
Location:		Chamber 1							
Mode:		LTE_QPSK Band 25 Harmonics, 15MHz 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, 1857.5MHz									
3715.00	-8.4	V	3.0	45.8	1.0	-53.2	-13.0	-40.2	
5572.50	-7.0	V	3.0	45.7	1.0	-51.8	-13.0	-38.8	
7430.00	-5.2	V	3.0	44.5	1.0	-48.7	-13.0	-35.7	
9287.50	-3.4	V	3.0	43.3	1.0	-45.6	-13.0	-32.6	
11145.00	1.1	V	3.0	43.0	1.0	-40.8	-13.0	-27.8	
3715.00	-7.8	H	3.0	45.8	1.0	-52.6	-13.0	-39.6	
5572.50	-5.6	H	3.0	45.7	1.0	-50.3	-13.0	-37.3	
7430.00	-3.4	H	3.0	44.5	1.0	-46.9	-13.0	-33.9	
9287.50	-3.7	H	3.0	43.3	1.0	-45.9	-13.0	-32.9	
11145.00	1.3	H	3.0	43.0	1.0	-40.6	-13.0	-27.6	
Mid Ch, 1882.5MHz									
3765.00	-9.6	V	3.0	45.8	1.0	-54.5	-13.0	-41.5	
5647.50	-6.0	V	3.0	45.7	1.0	-50.8	-13.0	-37.8	
7530.00	-5.6	V	3.0	44.5	1.0	-49.0	-13.0	-36.0	
9412.50	-2.0	V	3.0	43.1	1.0	-44.2	-13.0	-31.2	
11295.00	1.4	V	3.0	43.0	1.0	-40.6	-13.0	-27.6	
3765.00	-9.2	H	3.0	45.8	1.0	-54.0	-13.0	-41.0	
5647.50	-5.8	H	3.0	45.7	1.0	-50.5	-13.0	-37.5	
7530.00	-3.8	H	3.0	44.5	1.0	-47.3	-13.0	-34.3	
9412.50	-1.5	H	3.0	43.1	1.0	-43.6	-13.0	-30.6	
11295.00	1.6	H	3.0	43.0	1.0	-40.4	-13.0	-27.4	
High Ch, 1907.5MHz									
3815.00	-8.6	V	3.0	45.8	1.0	-53.4	-13.0	-40.4	
5722.50	-4.9	V	3.0	45.7	1.0	-49.7	-13.0	-36.7	
7630.00	-5.5	V	3.0	44.4	1.0	-48.9	-13.0	-35.9	
9537.50	-1.5	V	3.0	43.0	1.0	-43.5	-13.0	-30.5	
11445.00	1.6	V	3.0	43.1	1.0	-40.5	-13.0	-27.5	
3815.00	-8.9	H	3.0	45.8	1.0	-53.7	-13.0	-40.7	
5722.50	-5.3	H	3.0	45.7	1.0	-50.0	-13.0	-37.0	
7630.00	-4.2	H	3.0	44.4	1.0	-47.6	-13.0	-34.6	
9537.50	-1.0	H	3.0	43.0	1.0	-43.0	-13.0	-30.0	
11445.00	1.6	H	3.0	43.1	1.0	-40.4	-13.0	-27.4	

LTE
 Band 25
 15 MHz
 QPSK

LTE Band 26 (Part 90 & Straddle)

LTE Band 26 15 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4790379967 Date: 6/2/2022 Test Engineer: 45574 Configuration: EUT, Y-Position Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 15MHz 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
	Straddle Ch, 824MHz									
	1648.00	-15.0	V	3.0	45.6	1.0	-59.6	-13.0	-46.6	
	2472.00	-12.1	V	3.0	45.4	1.0	-56.6	-13.0	-43.6	
	3296.00	-9.7	V	3.0	45.7	1.0	-54.4	-13.0	-41.4	
	1648.00	-15.7	H	3.0	45.6	1.0	-60.3	-13.0	-47.3	
	2472.00	-12.6	H	3.0	45.4	1.0	-57.1	-13.0	-44.1	
	3296.00	-9.7	H	3.0	45.7	1.0	-54.4	-13.0	-41.4	

LTE Band 26 (Part 22)

LTE Band 26 15 MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4790379967 Date: 6/2/2022 Test Engineer: 45574 Configuration: EUT, Y-Position Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 15MHz 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
	Mid Ch, 831.5MHz									
	1663.00	-13.9	V	3.0	45.6	1.0	-58.5	-13.0	-45.5	
	2494.50	-12.2	V	3.0	45.5	1.0	-56.7	-13.0	-43.7	
	3326.00	-9.7	V	3.0	45.7	1.0	-54.4	-13.0	-41.4	
	1663.00	-15.6	H	3.0	45.6	1.0	-60.2	-13.0	-47.2	
	2494.50	-12.7	H	3.0	45.5	1.0	-57.1	-13.0	-44.1	
	3326.00	-9.7	H	3.0	45.7	1.0	-54.4	-13.0	-41.4	
	High Ch, 841.5MHz									
	1683.00	-14.3	V	3.0	45.6	1.0	-58.9	-13.0	-45.9	
	2524.50	-12.1	V	3.0	45.5	1.0	-56.6	-13.0	-43.6	
	3366.00	-9.3	V	3.0	45.7	1.0	-54.0	-13.0	-41.0	
	1683.00	-15.2	H	3.0	45.6	1.0	-59.8	-13.0	-46.8	
	2524.50	-12.5	H	3.0	45.5	1.0	-57.0	-13.0	-44.0	
	3366.00	-9.4	H	3.0	45.7	1.0	-54.1	-13.0	-41.1	

LTE Band 30

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/10/2022							
Test Engineer:		25770							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 2							
Mode:		LTE_QPSK Band 30 Harmonics, 5MHz 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, 2307.5MHz									
4615.00	-24.5	V	3.0	42.8	1.0	-66.3	-40.0	-26.3	
6922.50	-23.0	V	3.0	43.0	1.0	-65.0	-40.0	-25.0	
9230.00	-22.8	V	3.0	41.8	1.0	-63.6	-40.0	-23.6	
4615.00	-24.5	H	3.0	42.8	1.0	-66.3	-40.0	-26.3	
6922.50	-22.7	H	3.0	43.0	1.0	-64.6	-40.0	-24.6	
9230.00	-22.0	H	3.0	41.8	1.0	-62.8	-40.0	-22.8	
Mid Ch, 2310MHz									
4620.00	-24.1	V	3.0	42.8	1.0	-65.9	-40.0	-25.9	
6930.00	-21.2	V	3.0	43.0	1.0	-63.2	-40.0	-23.2	
9240.00	-21.8	V	3.0	41.8	1.0	-62.6	-40.0	-22.6	
4620.00	-24.3	H	3.0	42.8	1.0	-66.1	-40.0	-26.1	
6930.00	-22.5	H	3.0	43.0	1.0	-64.4	-40.0	-24.4	
9240.00	-22.8	H	3.0	41.8	1.0	-63.6	-40.0	-23.6	
High Ch, 2312.5MHz									
4625.00	-24.6	V	3.0	42.8	1.0	-66.4	-40.0	-26.4	
6937.50	-21.6	V	3.0	42.9	1.0	-63.6	-40.0	-23.6	
9250.00	-23.0	V	3.0	41.8	1.0	-63.7	-40.0	-23.7	
4625.00	-24.2	H	3.0	42.8	1.0	-65.9	-40.0	-25.9	
6937.50	-22.1	H	3.0	42.9	1.0	-64.0	-40.0	-24.0	
9250.00	-22.2	H	3.0	41.8	1.0	-63.0	-40.0	-23.0	

LTE
 Band 30
 5 MHz
 QPSK

LTE Band 40 (2307.5 - 2312.5 MHz)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/27/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, X-Position							
Location:		Chamber 2							
Mode:		LTE_256QAM Band 40(5M_LO) Harmonics, 5MHz 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, 2307.5MHz									
4615.00	-22.1	V	3.0	42.8	1.0	-63.9	-40.0	-23.9	
6922.50	-13.8	V	3.0	43.0	1.0	-55.8	-40.0	-15.8	
9230.00	-20.6	V	3.0	41.8	1.0	-61.4	-40.0	-21.4	
4615.00	-22.0	H	3.0	42.8	1.0	-63.7	-40.0	-23.7	
6922.50	-15.5	H	3.0	43.0	1.0	-57.5	-40.0	-17.5	
9230.00	-20.5	H	3.0	41.8	1.0	-61.3	-40.0	-21.3	
Mid Ch, 2310MHz									
4620.00	-22.2	V	3.0	42.8	1.0	-64.0	-40.0	-24.0	
6930.00	-14.0	V	3.0	43.0	1.0	-55.9	-40.0	-15.9	
9240.00	-20.6	V	3.0	41.8	1.0	-61.4	-40.0	-21.4	
4620.00	-21.9	H	3.0	42.8	1.0	-63.6	-40.0	-23.6	
6930.00	-14.9	H	3.0	43.0	1.0	-56.8	-40.0	-16.8	
9240.00	-20.7	H	3.0	41.8	1.0	-61.5	-40.0	-21.5	
High Ch, 2312.5MHz									
4625.00	-21.9	V	3.0	42.8	1.0	-63.7	-40.0	-23.7	
6937.50	-14.2	V	3.0	42.9	1.0	-56.2	-40.0	-16.2	
9250.00	-20.4	V	3.0	41.8	1.0	-61.2	-40.0	-21.2	
4625.00	-21.7	H	3.0	42.8	1.0	-63.4	-40.0	-23.4	
6937.50	-14.9	H	3.0	42.9	1.0	-56.9	-40.0	-16.9	
9250.00	-20.8	H	3.0	41.8	1.0	-61.6	-40.0	-21.6	

LTE
Band 40

5 MHz

256QAM

LTE Band 40 (2357.5 - 2357.5 MHz)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/27/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, X-Position							
Location:		Chamber 2							
Mode:		LTE_256QAM Band 40(5M_UP) 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, 2352.5MHz									
4705.00	-21.7	V	3.0	42.8	1.0	-63.5	-40.0	-23.5	
7057.50	-15.3	V	3.0	42.9	1.0	-57.2	-40.0	-17.2	
9410.00	-19.9	V	3.0	41.6	1.0	-60.5	-40.0	-20.5	
4705.00	-21.4	H	3.0	42.8	1.0	-63.2	-40.0	-23.2	
7057.50	-16.8	H	3.0	42.9	1.0	-58.7	-40.0	-18.7	
9410.00	-20.1	H	3.0	41.6	1.0	-60.7	-40.0	-20.7	
Mid Ch, 2355MHz									
4710.00	-21.7	V	3.0	42.8	1.0	-63.5	-40.0	-23.5	
7065.00	-14.7	V	3.0	42.9	1.0	-56.6	-40.0	-16.6	
9420.00	-19.8	V	3.0	41.6	1.0	-60.4	-40.0	-20.4	
4710.00	-21.6	H	3.0	42.8	1.0	-63.5	-40.0	-23.5	
7065.00	-17.0	H	3.0	42.9	1.0	-58.9	-40.0	-18.9	
9420.00	-19.4	H	3.0	41.6	1.0	-60.0	-40.0	-20.0	
High Ch, 2357.5MHz									
4715.00	-21.8	V	3.0	42.8	1.0	-63.6	-40.0	-23.6	
7072.50	-14.7	V	3.0	42.9	1.0	-56.6	-40.0	-16.6	
9430.00	-19.7	V	3.0	41.6	1.0	-60.3	-40.0	-20.3	
4715.00	-21.5	H	3.0	42.8	1.0	-63.3	-40.0	-23.3	
7072.50	-16.5	H	3.0	42.9	1.0	-58.4	-40.0	-18.4	
9430.00	-20.0	H	3.0	41.6	1.0	-60.6	-40.0	-20.6	

LTE
 Band 40
 5 MHz
 256QAM

LTE Band 41(PC2)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
LTE Band 41(PC2) 5 MHz QPSK		Company: Samsung Project #: 4790379967 Date: 6/12/2022 Test Engineer: 26087 Configuration: EUT / AC Adapter, Earphone, Y-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 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, 2498.5MHz									
		4997.00	-17.0	V	3.0	43.0	1.0	-59.0	-25.0	-34.0	
		7495.50	-15.7	V	3.0	42.7	1.0	-57.4	-25.0	-32.4	
		9994.00	-10.9	V	3.0	41.1	1.0	-51.0	-25.0	-26.0	
		4997.00	-16.8	H	3.0	43.0	1.0	-58.8	-25.0	-33.8	
		7495.50	-15.7	H	3.0	42.7	1.0	-57.4	-25.0	-32.4	
		9994.00	-10.8	H	3.0	41.1	1.0	-50.9	-25.0	-25.9	
		Mid Ch, 2593MHz									
5186.00	-17.0	V	3.0	43.1	1.0	-59.1	-25.0	-34.1			
7779.00	-15.5	V	3.0	42.5	1.0	-57.1	-25.0	-32.1			
10372.00	-10.6	V	3.0	41.3	1.0	-50.9	-25.0	-25.9			
5186.00	-16.8	H	3.0	43.1	1.0	-58.9	-25.0	-33.9			
7779.00	-15.6	H	3.0	42.5	1.0	-57.1	-25.0	-32.1			
10372.00	-10.4	H	3.0	41.3	1.0	-50.6	-25.0	-25.6			
High Ch, 2687.5MHz											
5375.00	-16.3	V	3.0	43.1	1.0	-58.4	-25.0	-33.4			
8062.50	-15.5	V	3.0	42.4	1.0	-56.9	-25.0	-31.9			
10750.00	-10.0	V	3.0	41.4	1.0	-50.4	-25.0	-25.4			
5375.00	-16.2	H	3.0	43.1	1.0	-58.3	-25.0	-33.3			
8062.50	-15.6	H	3.0	42.4	1.0	-57.1	-25.0	-32.1			
10750.00	-10.0	H	3.0	41.4	1.0	-50.4	-25.0	-25.4			

LTE Band 41(UL CA)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/21/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter / Earphone, Y-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, PCC : 2506MHz SCC : 2525.8MHz									
5031.80	-17.6	V	3.0	43.0	1.0	-59.7	-25.0	-34.7	
7547.70	-8.4	V	3.0	42.7	1.0	-50.1	-25.0	-25.1	
10063.60	-12.7	V	3.0	41.1	1.0	-52.8	-25.0	-27.8	
5031.80	-16.2	H	3.0	43.0	1.0	-58.2	-25.0	-33.2	
7547.70	-9.8	H	3.0	42.7	1.0	-51.5	-25.0	-26.5	
10063.60	-12.3	H	3.0	41.1	1.0	-52.4	-25.0	-27.4	
Mid Ch, PCC : 2583.1MHz SCC : 2602.9MHz									
5186.00	-18.6	V	3.0	43.1	1.0	-60.7	-25.0	-35.7	
7779.00	-14.0	V	3.0	42.5	1.0	-55.6	-25.0	-30.6	
10372.00	-12.5	V	3.0	41.3	1.0	-52.7	-25.0	-27.7	
5186.00	-18.5	H	3.0	43.1	1.0	-60.6	-25.0	-35.6	
7779.00	-16.2	H	3.0	42.5	1.0	-57.8	-25.0	-32.8	
10372.00	-12.3	H	3.0	41.3	1.0	-52.5	-25.0	-27.5	
High Ch, PCC : 2660.2MHz SCC : 2680MHz									
5340.20	-17.3	V	3.0	43.1	1.0	-59.4	-25.0	-34.4	
8010.30	-11.1	V	3.0	42.4	1.0	-52.5	-25.0	-27.5	
10680.40	-11.7	V	3.0	41.4	1.0	-52.1	-25.0	-27.1	
5340.20	-16.1	H	3.0	43.1	1.0	-58.2	-25.0	-33.2	
8010.30	-15.0	H	3.0	42.4	1.0	-56.4	-25.0	-31.4	
10680.40	-11.6	H	3.0	41.4	1.0	-52.0	-25.0	-27.0	

LTE
 Band 41
 (UL CA)
 20+20 MHz
 QPSK

LTE Band 66

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
LTE Band 66 5MHz QPSK		Company: Samsung Project #: 4790379967 Date: 6/9/2022 Test Engineer: 26087 Configuration: EUT, Y-Position Location: Chamber 2 Mode: LTE_QPSK Band 66 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, 1712.5MHz									
		3425.00	-6.5	V	3.0	42.3	1.0	-47.8	-13.0	-34.8	
		5137.50	-9.1	V	3.0	43.1	1.0	-51.1	-13.0	-38.1	
		6850.00	-6.6	V	3.0	43.0	1.0	-48.6	-13.0	-35.6	
		3425.00	-7.2	H	3.0	42.3	1.0	-48.5	-13.0	-35.5	
		5137.50	-8.9	H	3.0	43.1	1.0	-50.9	-13.0	-37.9	
		6850.00	-6.5	H	3.0	43.0	1.0	-48.4	-13.0	-35.4	
		Mid Ch, 1745MHz									
3490.00	-5.2	V	3.0	42.3	1.0	-46.5	-13.0	-33.5			
5235.00	-9.0	V	3.0	43.1	1.0	-51.1	-13.0	-38.1			
6980.00	-6.6	V	3.0	42.9	1.0	-48.5	-13.0	-35.5			
3490.00	-4.6	H	3.0	42.3	1.0	-45.9	-13.0	-32.9			
5235.00	-8.9	H	3.0	43.1	1.0	-51.0	-13.0	-38.0			
6980.00	-6.4	H	3.0	42.9	1.0	-48.3	-13.0	-35.3			
High Ch, 1777.5MHz											
3555.00	-7.9	V	3.0	42.3	1.0	-49.2	-13.0	-36.2			
5332.50	-8.4	V	3.0	43.1	1.0	-50.5	-13.0	-37.5			
7110.00	-6.4	V	3.0	42.9	1.0	-48.3	-13.0	-35.3			
3555.00	-8.0	H	3.0	42.3	1.0	-49.3	-13.0	-36.3			
5332.50	-8.3	H	3.0	43.1	1.0	-50.4	-13.0	-37.4			
7110.00	-6.1	H	3.0	42.9	1.0	-48.0	-13.0	-35.0			

LTE Band 71

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/12/2022							
Test Engineer:		26087							
Configuration:		EUT / AC Adapter, Earphone, Y-Position							
Location:		Chamber 2							
Mode:		LTE_QPSK Band 71 Harmonics, 20MHz 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, 673MHz									
1346.00	-13.0	V	3.0	41.0	1.0	-53.0	-13.0	-40.0	
2019.00	-7.4	V	3.0	40.9	1.0	-47.3	-13.0	-34.3	
2692.00	-7.9	V	3.0	41.9	1.0	-48.7	-13.0	-35.7	
1346.00	-13.6	H	3.0	41.0	1.0	-53.6	-13.0	-40.6	
2019.00	-8.5	H	3.0	40.9	1.0	-48.4	-13.0	-35.4	
2692.00	-8.2	H	3.0	41.9	1.0	-49.1	-13.0	-36.1	
Mid Ch, 680.5MHz									
1361.00	-12.8	V	3.0	41.0	1.0	-52.7	-13.0	-39.7	
2041.50	-9.4	V	3.0	40.9	1.0	-49.3	-13.0	-36.3	
2722.00	-7.8	V	3.0	41.9	1.0	-48.7	-13.0	-35.7	
1361.00	-13.3	H	3.0	41.0	1.0	-53.3	-13.0	-40.3	
2041.50	-10.1	H	3.0	40.9	1.0	-50.0	-13.0	-37.0	
2722.00	-8.1	H	3.0	41.9	1.0	-49.0	-13.0	-36.0	
High Ch, 688MHz									
1376.00	-12.8	V	3.0	41.0	1.0	-52.8	-13.0	-39.8	
2064.00	-10.0	V	3.0	41.0	1.0	-50.0	-13.0	-37.0	
2752.00	-7.9	V	3.0	41.9	1.0	-48.8	-13.0	-35.8	
1376.00	-13.4	H	3.0	41.0	1.0	-53.4	-13.0	-40.4	
2064.00	-9.6	H	3.0	41.0	1.0	-49.5	-13.0	-36.5	
2752.00	-8.1	H	3.0	41.9	1.0	-49.0	-13.0	-36.0	

LTE
 Band 71
 5 MHz
 QPSK

NR Band n5

		UL Verification Services, Inc.										
		Above 1GHz High Frequency Substitution Measurement										
20MHz z QPSK		Company:		Samsung								
		Project #:		4790379967								
		Date:		6/22/2022								
		Test Engineer:		19568								
		Configuration:		EUT / AC Adapter, X-Position								
		Location:		Chamber 1								
		Mode:		5G NR_QPSK NR n5 Harmonics, 20MHz Bandwidth								
		Test Voltage:		AC 120 V, 60 Hz								
				f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta
				MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)
		Low Ch, 834MHz										
		1668.00	-14.9	V	3.0	45.6	1.0	-59.5	-13.0	-46.5		
		2502.00	-10.7	V	3.0	45.5	1.0	-55.2	-13.0	-42.2		
		3336.00	-9.0	V	3.0	45.7	1.0	-53.7	-13.0	-40.7		
		1668.00	-16.1	H	3.0	45.6	1.0	-60.7	-13.0	-47.7		
		2502.00	-11.3	H	3.0	45.5	1.0	-55.7	-13.0	-42.7		
		3336.00	-9.3	H	3.0	45.7	1.0	-53.9	-13.0	-40.9		
		Mid Ch, 836.5MHz										
		1673.00	-13.9	V	3.0	45.6	1.0	-58.5	-13.0	-45.5		
		2509.50	-11.7	V	3.0	45.5	1.0	-56.2	-13.0	-43.2		
		3346.00	-8.4	V	3.0	45.7	1.0	-53.1	-13.0	-40.1		
		1673.00	-16.2	H	3.0	45.6	1.0	-60.8	-13.0	-47.8		
		2509.50	-11.8	H	3.0	45.5	1.0	-56.2	-13.0	-43.2		
		3346.00	-8.8	H	3.0	45.7	1.0	-53.5	-13.0	-40.5		
		High Ch, 839MHz										
		1678.00	-14.8	V	3.0	45.6	1.0	-59.4	-13.0	-46.4		
		2517.00	-10.9	V	3.0	45.5	1.0	-55.4	-13.0	-42.4		
		3356.00	-8.2	V	3.0	45.7	1.0	-52.9	-13.0	-39.9		
		1678.00	-16.1	H	3.0	45.6	1.0	-60.7	-13.0	-47.7		
		2517.00	-11.4	H	3.0	45.5	1.0	-55.9	-13.0	-42.9		
		3356.00	-8.1	H	3.0	45.7	1.0	-52.8	-13.0	-39.8		

NR Band n25

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company:	Samsung						
		Project #:	4790379967						
		Date:	6/21/2022						
		Test Engineer:	19568						
		Configuration:	EUT / AC Adapter, Earphone, Y-Position						
		Location:	Chamber 1						
		Mode:	NR_QPSK n25 Harmonics, 30MHz 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, 1865MHz									
3730.00	-10.4	V	3.0	45.8	1.0	-55.3	-13.0	-42.3	
5595.00	-7.2	V	3.0	45.7	1.0	-51.9	-13.0	-38.9	
7460.00	-5.5	V	3.0	44.5	1.0	-49.0	-13.0	-36.0	
3730.00	-10.7	H	3.0	45.8	1.0	-55.6	-13.0	-42.6	
5595.00	-7.5	H	3.0	45.7	1.0	-52.3	-13.0	-39.3	
7460.00	-5.5	H	3.0	44.5	1.0	-49.0	-13.0	-36.0	
Mid Ch, 1882.5MHz									
3765.00	-10.6	V	3.0	45.8	1.0	-55.5	-13.0	-42.5	
5647.50	-7.6	V	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7530.00	-5.5	V	3.0	44.5	1.0	-49.0	-13.0	-36.0	
3765.00	-10.6	H	3.0	45.8	1.0	-55.4	-13.0	-42.4	
5647.50	-7.7	H	3.0	45.7	1.0	-52.4	-13.0	-39.4	
7530.00	-5.5	H	3.0	44.5	1.0	-49.0	-13.0	-36.0	
High Ch, 1900MHz									
3800.00	-10.4	V	3.0	45.8	1.0	-55.2	-13.0	-42.2	
5700.00	-7.4	V	3.0	45.7	1.0	-52.2	-13.0	-39.2	
7600.00	-5.1	V	3.0	44.5	1.0	-48.6	-13.0	-35.6	
3800.00	-10.4	H	3.0	45.8	1.0	-55.2	-13.0	-42.2	
5700.00	-7.6	H	3.0	45.7	1.0	-52.3	-13.0	-39.3	
7600.00	-5.5	H	3.0	44.5	1.0	-48.9	-13.0	-35.9	

30 MHz
QPSK

NR Band n30

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company:	Samsung						
		Project #:	4790379967						
		Date:	6/21/2022						
		Test Engineer:	19568						
		Configuration:	EUT / AC Adapter, Earphone, Z-Position						
		Location:	Chamber 1						
		Mode:	5G NR_QPSK NR n30 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, 2307.5MHz									
4615.00	-21.6	V	3.0	45.9	1.0	-66.5	-40.0	-26.5	
6922.50	-20.2	V	3.0	44.8	1.0	-64.1	-40.0	-24.1	
9230.00	-21.3	V	3.0	43.3	1.0	-63.6	-40.0	-23.6	
4615.00	-21.6	H	3.0	45.9	1.0	-66.5	-40.0	-26.5	
6922.50	-20.1	H	3.0	44.8	1.0	-63.9	-40.0	-23.9	
9230.00	-21.2	H	3.0	43.3	1.0	-63.5	-40.0	-23.5	
Mid Ch, 2310MHz									
4620.00	-21.8	V	3.0	45.9	1.0	-66.6	-40.0	-26.6	
6930.00	-20.0	V	3.0	44.8	1.0	-63.8	-40.0	-23.8	
9240.00	-21.5	V	3.0	43.3	1.0	-63.8	-40.0	-23.8	
4620.00	-21.7	H	3.0	45.9	1.0	-66.5	-40.0	-26.5	
6930.00	-19.5	H	3.0	44.8	1.0	-63.4	-40.0	-23.4	
9240.00	-20.4	H	3.0	43.3	1.0	-62.7	-40.0	-22.7	
High Ch, 2312.5MHz									
4625.00	-21.8	V	3.0	45.9	1.0	-66.7	-40.0	-26.7	
6937.50	-19.5	V	3.0	44.8	1.0	-63.3	-40.0	-23.3	
9250.00	-21.5	V	3.0	43.3	1.0	-63.8	-40.0	-23.8	
4625.00	-21.8	H	3.0	45.9	1.0	-66.6	-40.0	-26.6	
6937.50	-19.6	H	3.0	44.8	1.0	-63.5	-40.0	-23.5	
9250.00	-20.4	H	3.0	43.3	1.0	-62.7	-40.0	-22.7	

NR Band n41(PC2)

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
30 MHz BPSK	Company: Samsung										
	Project #: 4790379967										
	Date: 6/22/2022										
	Test Engineer: 19568										
	Configuration: EUT / AC Adapter, Z-Position										
	Location: Chamber 1										
	Mode: 5G NR_BPSK NR n41 Harmonics, 30MHz Bandwidth										
	Test Voltage: AC 120 V, 60 Hz										
	Low Ch, 2511.01MHz										
		5022.02	-16.7	V	3.0	45.8	1.0	-61.6	-25.0	-36.6	
		7533.03	-15.1	V	3.0	44.5	1.0	-58.6	-25.0	-33.6	
		10044.04	-11.5	V	3.0	42.6	1.0	-53.1	-25.0	-28.1	
		5022.02	-17.2	H	3.0	45.8	1.0	-62.0	-25.0	-37.0	
		7533.03	-15.1	H	3.0	44.5	1.0	-58.6	-25.0	-33.6	
		10044.04	-13.5	H	3.0	42.6	1.0	-55.1	-25.0	-30.1	
	Mid Ch, 2592.99MHz										
		5185.98	-16.4	V	3.0	45.8	1.0	-61.2	-25.0	-36.2	
		7778.97	-15.0	V	3.0	44.4	1.0	-58.4	-25.0	-33.4	
		10371.96	-11.3	V	3.0	42.7	1.0	-53.0	-25.0	-28.0	
		5185.98	-17.0	H	3.0	45.8	1.0	-61.8	-25.0	-36.8	
		7778.97	-15.0	H	3.0	44.4	1.0	-58.3	-25.0	-33.3	
		10371.96	-11.1	H	3.0	42.7	1.0	-52.8	-25.0	-27.8	
	High Ch, 2675MHz										
		5350.00	-16.5	V	3.0	45.8	1.0	-61.3	-25.0	-36.3	
		8025.00	-15.1	V	3.0	44.2	1.0	-58.3	-25.0	-33.3	
		10700.00	-10.9	V	3.0	42.8	1.0	-52.7	-25.0	-27.7	
		5350.00	-16.3	H	3.0	45.8	1.0	-61.0	-25.0	-36.0	
		8025.00	-15.2	H	3.0	44.2	1.0	-58.4	-25.0	-33.4	
		10700.00	-10.3	H	3.0	42.8	1.0	-52.1	-25.0	-27.1	

NR Band n66

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company:	Samsung						
		Project #:	4790379967						
		Date:	6/22/2022						
		Test Engineer:	19568						
		Configuration:	EUT / AC Adapter, Z-Position						
		Location:	Chamber 2						
		Mode:	5G NR_QPSK NR n66 Harmonics, 30MHz 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, 1725MHz									
3450.00	0.4	V	3.0	42.3	1.0	-40.9	-13.0	-27.9	
5175.00	-8.6	V	3.0	43.1	1.0	-50.7	-13.0	-37.7	
6900.00	-9.4	V	3.0	43.0	1.0	-51.3	-13.0	-38.3	
3450.00	-1.1	H	3.0	42.3	1.0	-42.4	-13.0	-29.4	
5175.00	-8.5	H	3.0	43.1	1.0	-50.5	-13.0	-37.5	
6900.00	-9.3	H	3.0	43.0	1.0	-51.3	-13.0	-38.3	
Mid Ch, 1745MHz									
3490.00	-1.5	V	3.0	42.3	1.0	-42.8	-13.0	-29.8	
5235.00	-8.8	V	3.0	43.1	1.0	-50.9	-13.0	-37.9	
6980.00	-6.5	V	3.0	42.9	1.0	-48.5	-13.0	-35.5	
3490.00	1.2	H	3.0	42.3	1.0	-40.1	-13.0	-27.1	
5235.00	-8.0	H	3.0	43.1	1.0	-50.1	-13.0	-37.1	
6980.00	-6.3	H	3.0	42.9	1.0	-48.2	-13.0	-35.2	
High Ch, 1765MHz									
3530.00	-1.8	V	3.0	42.3	1.0	-43.1	-13.0	-30.1	
5295.00	-8.3	V	3.0	43.1	1.0	-50.4	-13.0	-37.4	
7060.00	-6.0	V	3.0	42.9	1.0	-47.9	-13.0	-34.9	
3530.00	-0.7	H	3.0	42.3	1.0	-42.0	-13.0	-29.0	
5295.00	-8.1	H	3.0	43.1	1.0	-50.2	-13.0	-37.2	
7060.00	-5.9	H	3.0	42.9	1.0	-47.8	-13.0	-34.8	

30 MHz
QPSK

NR Band n70

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/12/2022							
Test Engineer:		25770							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 1							
Mode:		5G NR_QPSK NR n70 Harmonics, 10MHz 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, 1700MHz									
3400.00	-0.2	V	3.0	45.7	1.0	-44.9	-13.0	-31.9	
5100.00	-5.7	V	3.0	45.8	1.0	-50.5	-13.0	-37.5	
6800.00	1.4	V	3.0	45.0	1.0	-42.5	-13.0	-29.5	
8500.00	-2.4	V	3.0	43.9	1.0	-45.3	-13.0	-32.3	
10200.00	2.4	V	3.0	42.7	1.0	-39.3	-13.0	-26.3	
3400.00	2.3	H	3.0	45.7	1.0	-42.4	-13.0	-29.4	
5100.00	-2.3	H	3.0	45.8	1.0	-47.1	-13.0	-34.1	
6800.00	1.3	H	3.0	45.0	1.0	-42.6	-13.0	-29.6	
8500.00	1.5	H	3.0	43.9	1.0	-41.3	-13.0	-28.3	
10200.00	2.6	H	3.0	42.7	1.0	-39.1	-13.0	-26.1	
Mid Ch, 1702.5MHz									
3405.00	0.5	V	3.0	45.7	1.0	-44.2	-13.0	-31.2	
5107.50	-5.9	V	3.0	45.8	1.0	-50.7	-13.0	-37.7	
6810.00	0.3	V	3.0	44.9	1.0	-43.7	-13.0	-30.7	
8512.50	-2.2	V	3.0	43.9	1.0	-45.1	-13.0	-32.1	
10215.00	2.7	V	3.0	42.7	1.0	-38.9	-13.0	-25.9	
3405.00	0.5	H	3.0	45.7	1.0	-44.2	-13.0	-31.2	
5107.50	-5.0	H	3.0	45.8	1.0	-49.8	-13.0	-36.8	
6810.00	-1.3	H	3.0	44.9	1.0	-45.2	-13.0	-32.2	
8512.50	-0.9	H	3.0	43.9	1.0	-43.8	-13.0	-30.8	
10215.00	2.9	H	3.0	42.7	1.0	-38.7	-13.0	-25.7	
High Ch, 1705MHz									
3410.00	-1.4	V	3.0	45.7	1.0	-46.2	-13.0	-33.2	
5115.00	-5.8	V	3.0	45.8	1.0	-50.6	-13.0	-37.6	
6820.00	2.7	V	3.0	44.9	1.0	-41.2	-13.0	-28.2	
8525.00	-2.2	V	3.0	43.9	1.0	-45.0	-13.0	-32.0	
10230.00	2.5	V	3.0	42.7	1.0	-39.2	-13.0	-26.2	
3410.00	2.5	H	3.0	45.7	1.0	-42.2	-13.0	-29.2	
5115.00	-3.1	H	3.0	45.8	1.0	-47.9	-13.0	-34.9	
6820.00	-0.4	H	3.0	44.9	1.0	-44.4	-13.0	-31.4	
8525.00	1.0	H	3.0	43.9	1.0	-41.9	-13.0	-28.9	
10230.00	2.5	H	3.0	42.7	1.0	-39.2	-13.0	-26.2	

10 MHz
QPSK

NR Band n71

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
5MHz QPSK		Company: Samsung Project #: 4790379967 Date: 6/22/2022 Test Engineer: 19568 Configuration: EUT / AC Adapater, Z-Position Location: Chamber 1 Mode: 5G NR_QPSK NR n71 Harmonics, 5MHz 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, 665.5MHz									
		1331.00	-17.4	V	3.0	45.9	1.0	-62.3	-13.0	-49.3	
		1996.50	-11.9	V	3.0	45.3	1.0	-56.3	-13.0	-43.3	
		2662.00	-12.5	V	3.0	45.5	1.0	-57.0	-13.0	-44.0	
		1331.00	-18.6	H	3.0	45.9	1.0	-63.5	-13.0	-50.5	
		1996.50	-12.4	H	3.0	45.3	1.0	-56.8	-13.0	-43.8	
		2662.00	-12.9	H	3.0	45.5	1.0	-57.3	-13.0	-44.3	
		Mid Ch, 680.5MHz									
1361.00	-17.6	V	3.0	45.9	1.0	-62.5	-13.0	-49.5			
2041.50	-13.4	V	3.0	45.3	1.0	-57.7	-13.0	-44.7			
2722.00	-12.4	V	3.0	45.5	1.0	-56.9	-13.0	-43.9			
1361.00	-18.3	H	3.0	45.9	1.0	-63.1	-13.0	-50.1			
2041.50	-14.1	H	3.0	45.3	1.0	-58.4	-13.0	-45.4			
2722.00	-12.7	H	3.0	45.5	1.0	-57.2	-13.0	-44.2			
High Ch, 695.5MHz											
1391.00	-16.9	V	3.0	45.8	1.0	-61.8	-13.0	-48.8			
2086.50	-13.0	V	3.0	45.4	1.0	-57.3	-13.0	-44.3			
2782.00	-12.4	V	3.0	45.5	1.0	-56.9	-13.0	-43.9			
1391.00	-18.1	H	3.0	45.8	1.0	-62.9	-13.0	-49.9			
2086.50	-14.1	H	3.0	45.4	1.0	-58.4	-13.0	-45.4			
2782.00	-12.5	H	3.0	45.5	1.0	-57.0	-13.0	-44.0			

NR Band n77(PC2) (3450 – 3550 MHz)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/23/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, Earphone, Z-Position							
Location:		Chamber 1							
Mode:		5G NR_BPSK NR n77 LO Harmonics, 30MHz 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, 3465MHz									
6930.00	-3.1	V	3.0	44.8	1.0	-46.9	-13.0	-33.9	
10395.00	2.9	V	3.0	42.7	1.0	-38.8	-13.0	-25.8	
13860.00	5.2	V	3.0	44.8	1.0	-38.6	-13.0	-25.6	
6930.00	-3.3	H	3.0	44.8	1.0	-47.2	-13.0	-34.2	
10395.00	2.6	H	3.0	42.7	1.0	-39.1	-13.0	-26.1	
13860.00	5.3	H	3.0	44.8	1.0	-38.5	-13.0	-25.5	
Mid Ch, 3499.98MHz									
6999.96	-3.2	V	3.0	44.8	1.0	-47.0	-13.0	-34.0	
10499.94	3.1	V	3.0	42.7	1.0	-38.7	-13.0	-25.7	
13999.92	5.3	V	3.0	44.9	1.0	-38.6	-13.0	-25.6	
6999.96	-2.8	H	3.0	44.8	1.0	-46.6	-13.0	-33.6	
10499.94	2.7	H	3.0	42.7	1.0	-39.0	-13.0	-26.0	
13999.92	5.4	H	3.0	44.9	1.0	-38.5	-13.0	-25.5	
High Ch, 3535.02MHz									
7070.04	-2.7	V	3.0	44.7	1.0	-46.5	-13.0	-33.5	
10605.06	2.8	V	3.0	42.8	1.0	-39.0	-13.0	-26.0	
14140.08	5.4	V	3.0	45.0	1.0	-38.7	-13.0	-25.7	
7070.04	-3.1	H	3.0	44.7	1.0	-46.9	-13.0	-33.9	
10605.06	2.6	H	3.0	42.8	1.0	-39.2	-13.0	-26.2	
14140.08	5.7	H	3.0	45.0	1.0	-38.3	-13.0	-25.3	

30MHz
QPSK

NR Band n77(PC2) (3450 – 3550 MHz, SRS1)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
30MHz		Company:		Samsung							
		Project #:		4790379967							
		Date:		6/23/2022							
		Test Engineer:		25770							
		Configuration:		EUT / AC Adapter, Z-Position							
		Location:		Chamber 1							
		Mode:		5G NR n77 LO Harmonics, 30MHz 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, 3465MHz									
6930.00	-4.7	V	3.0	44.8	1.0	-48.5	-13.0	-35.5			
10395.00	1.1	V	3.0	42.7	1.0	-40.7	-13.0	-27.7			
13860.00	3.4	V	3.0	44.8	1.0	-40.4	-13.0	-27.4			
6930.00	-5.6	H	3.0	44.8	1.0	-49.4	-13.0	-36.4			
10395.00	0.9	H	3.0	42.7	1.0	-40.8	-13.0	-27.8			
13860.00	3.9	H	3.0	44.8	1.0	-39.9	-13.0	-26.9			
Mid Ch, 3499.98MHz											
6999.96	-5.5	V	3.0	44.8	1.0	-49.3	-13.0	-36.3			
10499.94	1.4	V	3.0	42.7	1.0	-40.4	-13.0	-27.4			
13999.92	3.5	V	3.0	44.9	1.0	-40.4	-13.0	-27.4			
6999.96	-5.0	H	3.0	44.8	1.0	-48.7	-13.0	-35.7			
10499.94	0.9	H	3.0	42.7	1.0	-40.8	-13.0	-27.8			
13999.92	3.8	H	3.0	44.9	1.0	-40.1	-13.0	-27.1			
High Ch, 3534MHz											
7068.00	-5.6	V	3.0	44.7	1.0	-49.4	-13.0	-36.4			
10602.00	1.6	V	3.0	42.8	1.0	-40.1	-13.0	-27.1			
14136.00	3.6	V	3.0	45.0	1.0	-40.4	-13.0	-27.4			
7068.00	-5.6	H	3.0	44.7	1.0	-49.3	-13.0	-36.3			
10602.00	1.0	H	3.0	42.8	1.0	-40.8	-13.0	-27.8			
14136.00	4.1	H	3.0	45.0	1.0	-39.9	-13.0	-26.9			

NR Band n77(PC2) (3450 – 3550 MHz, SRS2)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company: Samsung Project #: 4790379967 Date: 6/22/2022 Test Engineer: 25770 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: 5G NR n77 LO Harmonics, 30MHz 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, 3465MHz									
6930.00	-5.3	V	3.0	44.8	1.0	-49.1	-13.0	-36.1	
10395.00	1.0	V	3.0	42.7	1.0	-40.7	-13.0	-27.7	
13860.00	3.6	V	3.0	44.8	1.0	-40.2	-13.0	-27.2	
6930.00	-5.4	H	3.0	44.8	1.0	-49.2	-13.0	-36.2	
10395.00	1.1	H	3.0	42.7	1.0	-40.6	-13.0	-27.6	
13860.00	3.9	H	3.0	44.8	1.0	-39.9	-13.0	-26.9	
Mid Ch, 3499.98MHz									
6999.96	-5.1	V	3.0	44.8	1.0	-48.9	-13.0	-35.9	
10499.94	1.0	V	3.0	42.7	1.0	-40.7	-13.0	-27.7	
13999.92	3.2	V	3.0	44.9	1.0	-40.7	-13.0	-27.7	
6999.96	-5.0	H	3.0	44.8	1.0	-48.8	-13.0	-35.8	
10499.94	0.7	H	3.0	42.7	1.0	-41.0	-13.0	-28.0	
13999.92	3.8	H	3.0	44.9	1.0	-40.1	-13.0	-27.1	
High Ch, 3534MHz									
7068.00	-4.7	V	3.0	44.7	1.0	-48.5	-13.0	-35.5	
10602.00	1.1	V	3.0	42.8	1.0	-40.7	-13.0	-27.7	
14136.00	3.7	V	3.0	45.0	1.0	-40.3	-13.0	-27.3	
7068.00	-5.4	H	3.0	44.7	1.0	-49.1	-13.0	-36.1	
10602.00	1.2	H	3.0	42.8	1.0	-40.6	-13.0	-27.6	
14136.00	4.0	H	3.0	45.0	1.0	-40.0	-13.0	-27.0	

30MHz

NR Band n77(PC2) (3450 – 3550 MHz, SRS3)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
30MHz		Company: Samsung Project #: 4790379967 Date: 6/22/2022 Test Engineer: 25770 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: 5G NR n77 LO Harmonics, 30MHz 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, 3465MHz									
		6930.00	-4.8	V	3.0	44.8	1.0	-48.6	-13.0	-35.6	
		10395.00	0.5	V	3.0	42.7	1.0	-41.2	-13.0	-28.2	
		13860.00	3.2	V	3.0	44.8	1.0	-40.6	-13.0	-27.6	
		6930.00	-4.8	H	3.0	44.8	1.0	-48.7	-13.0	-35.7	
		10395.00	1.3	H	3.0	42.7	1.0	-40.4	-13.0	-27.4	
		13860.00	3.9	H	3.0	44.8	1.0	-39.8	-13.0	-26.8	
		Mid Ch, 3499.98MHz									
6999.96	-5.5	V	3.0	44.8	1.0	-49.3	-13.0	-36.3			
10499.94	0.6	V	3.0	42.7	1.0	-41.1	-13.0	-28.1			
13999.92	3.3	V	3.0	44.9	1.0	-40.6	-13.0	-27.6			
6999.96	-5.0	H	3.0	44.8	1.0	-48.8	-13.0	-35.8			
10499.94	0.7	H	3.0	42.7	1.0	-41.1	-13.0	-28.1			
13999.92	2.9	H	3.0	44.9	1.0	-41.0	-13.0	-28.0			
High Ch, 3535.02MHz											
7070.04	-4.9	V	3.0	44.7	1.0	-48.6	-13.0	-35.6			
10605.06	1.8	V	3.0	42.8	1.0	-40.0	-13.0	-27.0			
14140.08	3.6	V	3.0	45.0	1.0	-40.4	-13.0	-27.4			
7070.04	-4.8	H	3.0	44.7	1.0	-48.6	-13.0	-35.6			
10605.06	1.1	H	3.0	42.8	1.0	-40.7	-13.0	-27.7			
14140.08	3.7	H	3.0	45.0	1.0	-40.3	-13.0	-27.3			

NR Band n77(PC2)(3700 – 3980 MHz)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/23/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, X-Position							
Location:		Chamber 1							
Mode:		5G NR_BPSK NR n77 UP 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, 3720MHz									
7440.00	-2.8	V	3.0	44.5	1.0	-46.3	-13.0	-33.3	
11160.00	3.7	V	3.0	43.0	1.0	-38.3	-13.0	-25.3	
14880.00	5.7	V	3.0	45.6	1.0	-39.0	-13.0	-26.0	
7440.00	-2.6	H	3.0	44.5	1.0	-46.2	-13.0	-33.2	
11160.00	4.1	H	3.0	43.0	1.0	-37.8	-13.0	-24.8	
14880.00	5.7	H	3.0	45.6	1.0	-39.0	-13.0	-26.0	
Mid Ch, 3840MHz									
7680.00	-3.1	V	3.0	44.4	1.0	-46.5	-13.0	-33.5	
11520.00	4.0	V	3.0	43.1	1.0	-38.1	-13.0	-25.1	
15360.00	6.8	V	3.0	45.0	1.0	-37.2	-13.0	-24.2	
7680.00	-2.7	H	3.0	44.4	1.0	-46.1	-13.0	-33.1	
11520.00	4.1	H	3.0	43.1	1.0	-38.0	-13.0	-25.0	
15360.00	6.0	H	3.0	45.0	1.0	-38.0	-13.0	-25.0	
High Ch, 3960MHz									
7920.00	-3.1	V	3.0	44.3	1.0	-46.4	-13.0	-33.4	
11880.00	4.4	V	3.0	43.2	1.0	-37.8	-13.0	-24.8	
15840.00	6.9	V	3.0	44.0	1.0	-36.1	-13.0	-23.1	
7920.00	-2.6	H	3.0	44.3	1.0	-45.9	-13.0	-32.9	
11880.00	4.7	H	3.0	43.2	1.0	-37.5	-13.0	-24.5	
15840.00	6.7	H	3.0	44.0	1.0	-36.3	-13.0	-23.3	

40MHz
QPSK

NR Band n77(PC2)(3700 – 3980 MHz, SRS1)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4790379967							
Date:		6/22/2022							
Test Engineer:		19568							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 1							
Mode:		5G NR n77 UP 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, 3720MHz									
7440.00	-4.2	V	3.0	44.5	1.0	-47.8	-13.0	-34.8	
11160.00	2.2	V	3.0	43.0	1.0	-39.7	-13.0	-26.7	
14880.00	4.7	V	3.0	45.6	1.0	-39.9	-13.0	-26.9	
7440.00	-4.1	H	3.0	44.5	1.0	-47.6	-13.0	-34.6	
11160.00	2.8	H	3.0	43.0	1.0	-39.2	-13.0	-26.2	
14880.00	4.6	H	3.0	45.6	1.0	-40.1	-13.0	-27.1	
Mid Ch, 3840MHz									
7680.00	-4.3	V	3.0	44.4	1.0	-47.7	-13.0	-34.7	
11520.00	3.1	V	3.0	43.1	1.0	-39.0	-13.0	-26.0	
15360.00	5.4	V	3.0	45.0	1.0	-38.6	-13.0	-25.6	
7680.00	-5.4	H	3.0	44.4	1.0	-48.8	-13.0	-35.8	
11520.00	3.0	H	3.0	43.1	1.0	-39.0	-13.0	-26.0	
15360.00	5.2	H	3.0	45.0	1.0	-38.8	-13.0	-25.8	
High Ch, 3960MHz									
7920.00	-4.8	V	3.0	44.3	1.0	-48.1	-13.0	-35.1	
11880.00	2.6	V	3.0	43.2	1.0	-39.6	-13.0	-26.6	
15840.00	4.7	V	3.0	44.0	1.0	-38.3	-13.0	-25.3	
7920.00	-5.0	H	3.0	44.3	1.0	-48.3	-13.0	-35.3	
11880.00	3.1	H	3.0	43.2	1.0	-39.1	-13.0	-26.1	
15840.00	4.1	H	3.0	44.0	1.0	-38.8	-13.0	-25.8	

NR Band n77(PC2)(3700 – 3980 MHz, SRS2)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
40MHz		Company:		Samsung							
		Project #:		4790379967							
		Date:		6/22/2022							
		Test Engineer:		19568							
		Configuration:		EUT / AC Adapter, Earphone, Y-Position							
		Location:		Chamber 1							
		Mode:		5G NR n77 UP Harmonics, 40MHz 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, 3720MHz									
7440.00	-5.6	V	3.0	44.5	1.0	-49.1	-13.0	-36.1			
11160.00	1.1	V	3.0	43.0	1.0	-40.8	-13.0	-27.8			
14880.00	3.4	V	3.0	45.6	1.0	-41.3	-13.0	-28.3			
7440.00	-5.6	H	3.0	44.5	1.0	-49.2	-13.0	-36.2			
11160.00	1.1	H	3.0	43.0	1.0	-40.8	-13.0	-27.8			
14880.00	3.5	H	3.0	45.6	1.0	-41.2	-13.0	-28.2			
Mid Ch, 3840MHz											
7680.00	-5.7	V	3.0	44.4	1.0	-49.1	-13.0	-36.1			
11520.00	1.5	V	3.0	43.1	1.0	-40.5	-13.0	-27.5			
15360.00	3.7	V	3.0	45.0	1.0	-40.3	-13.0	-27.3			
7680.00	-5.6	H	3.0	44.4	1.0	-49.0	-13.0	-36.0			
11520.00	1.7	H	3.0	43.1	1.0	-40.3	-13.0	-27.3			
15360.00	3.9	H	3.0	45.0	1.0	-40.1	-13.0	-27.1			
High Ch, 3960MHz											
7920.00	-5.5	V	3.0	44.3	1.0	-48.7	-13.0	-35.7			
11880.00	2.1	V	3.0	43.2	1.0	-40.0	-13.0	-27.0			
15840.00	4.1	V	3.0	44.0	1.0	-38.9	-13.0	-25.9			
7920.00	-5.3	H	3.0	44.3	1.0	-48.6	-13.0	-35.6			
11880.00	2.2	H	3.0	43.2	1.0	-40.0	-13.0	-27.0			
15840.00	4.1	H	3.0	44.0	1.0	-38.8	-13.0	-25.8			

NR Band n77(PC2)(3700 – 3980 MHz, SRS3)

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
40MHz		Company:		Samsung							
		Project #:		4790379967							
		Date:		6/22/2022							
		Test Engineer:		25770							
		Configuration:		EUT / AC Adapter, Z-Position							
		Location:		Chamber 1							
		Mode:		5G NR n77 UP Harmonics, 40MHz 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, 3720MHz									
7440.00	-4.5	V	3.0	44.5	1.0	-48.0	-13.0	-35.0			
11160.00	2.3	V	3.0	43.0	1.0	-39.7	-13.0	-26.7			
14880.00	4.7	V	3.0	45.6	1.0	-40.0	-13.0	-27.0			
7440.00	-5.0	H	3.0	44.5	1.0	-48.5	-13.0	-35.5			
11160.00	1.9	H	3.0	43.0	1.0	-40.1	-13.0	-27.1			
14880.00	4.3	H	3.0	45.6	1.0	-40.4	-13.0	-27.4			
Mid Ch, 3840MHz											
7680.00	-4.7	V	3.0	44.4	1.0	-48.1	-13.0	-35.1			
11520.00	2.5	V	3.0	43.1	1.0	-39.6	-13.0	-26.6			
15360.00	4.9	V	3.0	45.0	1.0	-39.1	-13.0	-26.1			
7680.00	-5.1	H	3.0	44.4	1.0	-48.5	-13.0	-35.5			
11520.00	2.0	H	3.0	43.1	1.0	-40.1	-13.0	-27.1			
15360.00	4.9	H	3.0	45.0	1.0	-39.1	-13.0	-26.1			
High Ch, 3960MHz											
7920.00	-4.3	V	3.0	44.3	1.0	-47.6	-13.0	-34.6			
11880.00	2.2	V	3.0	43.2	1.0	-40.0	-13.0	-27.0			
15840.00	5.0	V	3.0	44.0	1.0	-38.0	-13.0	-25.0			
7920.00	-5.2	H	3.0	44.3	1.0	-48.5	-13.0	-35.5			
11880.00	2.6	H	3.0	43.2	1.0	-39.6	-13.0	-26.6			
15840.00	4.8	H	3.0	44.0	1.0	-38.2	-13.0	-25.2			

END OF REPORT