

TEST REPORT



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1. Report No : DRTFCC2412-0131

2. Customer

- Name (FCC) : DASAN Networks, Inc.
- Address (FCC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, South Korea 13493

3. Use of Report : FCC Certification

4. Product Name / Model Name : RC-TGU / RC-TGU (300611-02665)
FCC ID : 2AXDMTGU5GWIFI6

5. FCC Regulation(s): Part 22, 24, 27, 90

Test Method used: KDB971168 D01v03r01, ANSI/TIA-603-E-2016, ANSI C63.26-2015

6. Date of Test : 2024.10.10 ~ 2024.11.25

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached Test Result

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : SeungMin Gil 	Name : JaeJin Lee  (Signature)

2024 . 12 . 11 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2412-0131	Dec. 11, 2024	Initial issue	SeungMin Gil	JaeJin Lee

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1. GENERAL INFORMATION

FCC Classification	PCS Licensed Transmitter (PCB)
FCC ID	2AXDMTGU5GWIFI6
Product Name	RC-TGU
Model Name	RC-TGU (300611-02665)
Add Model Name	-
FVIN(Firmware Version Identification Number)	V0.10
EUT Serial Number	No specified
Power Supply	DC 12, 24V
Waveform	CP-OFDM, DFT-S-OFDM
Modulation type	$\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM

Antenna Information (5GNR)

Band	Internal Chip Antenna 1 (dBi)	External Antenna 1 (dBi)	Internal Chip Antenna 2 (dBi)	External Antenna 2 (dBi)
71	1.9	1.7	NA	NA
12	0.8	1.8	NA	NA
13	-0.1	0.1	NA	NA
14	-0.4	0	NA	NA
26(814 ~ 824 MHz)	-0.4	0.7	NA	NA
26(824 ~ 849 MHz)	0.6	0.7	NA	NA
5	0.6	0.7	NA	NA
70	NA	NA	1.6	1.2
66	2.6	0.6	NA	NA
2	4.4	0.6	NA	NA
25	4.4	0.6	NA	NA
30	2.4	1.3	NA	NA
7	3.7	0.3	NA	NA
38	3.1	1.8	1.9	2.9
41	3.7	1.8	2.1	2.9
77, 78(3 450 ~ 3 550 MHz)	3.3	2.3	0.6	3.2
77(3 700 ~ 3 980 MHz)	4.7	3.1	2.2	3.9
78(3 700 ~ 3 800 MHz)	4.7	3.1	2.2	3.9

Note: The antenna gain was corrected for path loss from the conducted feed point to the antenna terminal.

Note: The device supports the MIMO for NR band n38/41/77/78.

-	Transmitting configuration for NR band n38/41
SISO	Internal Chip Antenna 1
SISO	External Antenna 1
MIMO	Internal Chip Antenna 1 + Internal Chip Antenna 2
MIMO	External Antenna 1 + External Antenna 2

-	Transmitting configuration for NR band n77/78
SISO	Internal Chip Antenna 2
SISO	External Antenna 2
MIMO	Internal Chip Antenna 1 + Internal Chip Antenna 2
MIMO	External Antenna 1 + External Antenna 2

Directional Gain(dBi)^{Note1}

NR Band	Internal Chip Antenna 1 + Internal Chip Antenna 2	External Antenna 1 + External Antenna 2
38	2.5	2.4
41	3.0	2.4
77,78(3450 ~ 3550 MHz)	2.2	2.8
77(3700 ~ 3980 MHz)	3.6	3.5
78(3700 ~ 3800 MHz)	3.6	3.5

Note 1. Directional gain (Uncorrelated signal with unequal antenna gain and equal transmit power)

$$10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}] \text{ dBi}$$

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n71	20	$\pi/2$ BPSK	673 ~ 688	24.01	0.252	23.76	0.238
n71	20	QPSK	673 ~ 688	24.16	0.261	23.91	0.246
n71	20	16QAM	673 ~ 688	23.34	0.216	23.09	0.204
n71	20	64QAM	673 ~ 688	21.79	0.151	21.54	0.143
n71	20	256QAM	673 ~ 688	19.61	0.091	19.36	0.086
n71	15	$\pi/2$ BPSK	670.5 ~ 690.5	24.03	0.253	23.78	0.239
n71	15	QPSK	670.5 ~ 690.5	24.07	0.255	23.82	0.241
n71	15	16QAM	670.5 ~ 690.5	22.98	0.199	22.73	0.187
n71	15	64QAM	670.5 ~ 690.5	21.60	0.145	21.35	0.136
n71	15	256QAM	670.5 ~ 690.5	19.76	0.095	19.51	0.089
n71	10	$\pi/2$ BPSK	668 ~ 693	24.05	0.254	23.80	0.240
n71	10	QPSK	668 ~ 693	24.03	0.253	23.78	0.239
n71	10	16QAM	668 ~ 693	23.37	0.217	23.12	0.205
n71	10	64QAM	668 ~ 693	21.72	0.149	21.47	0.140
n71	10	256QAM	668 ~ 693	19.48	0.089	19.23	0.084
n71	5	$\pi/2$ BPSK	665.5 ~ 695.5	23.81	0.240	23.56	0.227
n71	5	QPSK	665.5 ~ 695.5	23.83	0.242	23.58	0.228
n71	5	16QAM	665.5 ~ 695.5	23.34	0.216	23.09	0.204
n71	5	64QAM	665.5 ~ 695.5	21.54	0.143	21.29	0.135
n71	5	256QAM	665.5 ~ 695.5	19.67	0.093	19.42	0.087
n12	15	$\pi/2$ BPSK	706.5 ~ 708.5	24.02	0.252	23.67	0.233
n12	15	QPSK	706.5 ~ 708.5	24.05	0.254	23.70	0.234
n12	15	16QAM	706.5 ~ 708.5	23.50	0.224	23.15	0.207
n12	15	64QAM	706.5 ~ 708.5	21.79	0.151	21.44	0.139
n12	15	256QAM	706.5 ~ 708.5	20.11	0.103	19.76	0.095
n12	10	$\pi/2$ BPSK	704 ~ 711	23.82	0.241	23.47	0.222
n12	10	QPSK	704 ~ 711	24.01	0.252	23.66	0.232
n12	10	16QAM	704 ~ 711	23.08	0.203	22.73	0.187
n12	10	64QAM	704 ~ 711	21.88	0.154	21.53	0.142
n12	10	256QAM	704 ~ 711	19.35	0.086	19.00	0.079
n12	5	$\pi/2$ BPSK	701.5 ~ 713.5	23.76	0.238	23.41	0.219
n12	5	QPSK	701.5 ~ 713.5	24.01	0.252	23.66	0.232
n12	5	16QAM	701.5 ~ 713.5	23.02	0.200	22.67	0.185
n12	5	64QAM	701.5 ~ 713.5	21.44	0.139	21.09	0.129
n12	5	256QAM	701.5 ~ 713.5	19.82	0.096	19.47	0.089
n13	10	$\pi/2$ BPSK	782	23.50	0.224	21.45	0.140
n13	10	QPSK	782	23.43	0.220	21.38	0.137
n13	10	16QAM	782	22.63	0.183	20.58	0.114
n13	10	64QAM	782	21.24	0.133	19.19	0.083
n13	10	256QAM	782	19.32	0.086	17.27	0.053
n13	5	$\pi/2$ BPSK	779.5 ~ 784.5	23.69	0.234	21.64	0.146
n13	5	QPSK	779.5 ~ 784.5	23.76	0.238	21.71	0.148
n13	5	16QAM	779.5 ~ 784.5	23.05	0.202	21.00	0.126
n13	5	64QAM	779.5 ~ 784.5	21.81	0.152	19.76	0.095
n13	5	256QAM	779.5 ~ 784.5	19.66	0.092	17.61	0.058

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n14	10	$\pi/2$ BPSK	793	24.06	0.255	21.91	0.155
n14	10	QPSK	793	24.23	0.265	22.08	0.161
n14	10	16QAM	793	23.16	0.207	21.01	0.126
n14	10	64QAM	793	21.83	0.152	19.68	0.093
n14	10	256QAM	793	19.51	0.089	17.36	0.054
n14	5	$\pi/2$ BPSK	790.5 ~ 795.5	23.92	0.247	21.77	0.150
n14	5	QPSK	790.5 ~ 795.5	23.96	0.249	21.81	0.152
n14	5	16QAM	790.5 ~ 795.5	23.55	0.226	21.40	0.138
n14	5	64QAM	790.5 ~ 795.5	21.75	0.150	19.60	0.091
n14	5	256QAM	790.5 ~ 795.5	19.57	0.091	17.42	0.055
n26(P90)	10	$\pi/2$ BPSK	819	23.74	0.237	22.29	0.169
n26(P90)	10	QPSK	819	23.67	0.233	22.22	0.167
n26(P90)	10	16QAM	819	22.86	0.193	21.41	0.138
n26(P90)	10	64QAM	819	21.21	0.131	19.76	0.095
n26(P90)	10	256QAM	819	19.47	0.089	18.02	0.063
n26(P90)	5	$\pi/2$ BPSK	816.5 ~ 821.5	23.73	0.236	22.28	0.169
n26(P90)	5	QPSK	816.5 ~ 821.5	23.88	0.244	22.43	0.175
n26(P90)	5	16QAM	816.5 ~ 821.5	23.02	0.200	21.57	0.144
n26(P90)	5	64QAM	816.5 ~ 821.5	21.92	0.156	20.47	0.111
n26(P90)	5	256QAM	816.5 ~ 821.5	19.61	0.091	18.16	0.065
n26(P22)	20	$\pi/2$ BPSK	834 ~ 839	23.74	0.237	22.29	0.169
n26(P22)	20	QPSK	834 ~ 839	23.86	0.243	22.41	0.174
n26(P22)	20	16QAM	834 ~ 839	23.40	0.219	21.95	0.157
n26(P22)	20	64QAM	834 ~ 839	21.87	0.154	20.42	0.110
n26(P22)	20	256QAM	834 ~ 839	19.73	0.094	18.28	0.067
n26(P22)	15	$\pi/2$ BPSK	831.5 ~ 841.5	24.00	0.251	22.55	0.180
n26(P22)	15	QPSK	831.5 ~ 841.5	24.06	0.255	22.61	0.182
n26(P22)	15	16QAM	831.5 ~ 841.5	23.34	0.216	21.89	0.155
n26(P22)	15	64QAM	831.5 ~ 841.5	21.80	0.151	20.35	0.108
n26(P22)	15	256QAM	831.5 ~ 841.5	20.04	0.101	18.59	0.072
n26(P22)	10	$\pi/2$ BPSK	829 ~ 844	24.02	0.252	22.57	0.181
n26(P22)	10	QPSK	829 ~ 844	24.39	0.275	22.94	0.197
n26(P22)	10	16QAM	829 ~ 844	23.26	0.212	21.81	0.152
n26(P22)	10	64QAM	829 ~ 844	22.10	0.162	20.65	0.116
n26(P22)	10	256QAM	829 ~ 844	19.64	0.092	18.19	0.066
n26(P22)	5	$\pi/2$ BPSK	826.5 ~ 846.5	23.89	0.245	22.44	0.175
n26(P22)	5	QPSK	826.5 ~ 846.5	23.87	0.244	22.42	0.175
n26(P22)	5	16QAM	826.5 ~ 846.5	23.29	0.213	21.84	0.153
n26(P22)	5	64QAM	826.5 ~ 846.5	21.63	0.146	20.18	0.104
n26(P22)	5	256QAM	826.5 ~ 846.5	19.83	0.096	18.38	0.069

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		ERP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n5	20	$\pi/2$ BPSK	834 ~ 839	23.94	0.248	22.49	0.177
n5	20	QPSK	834 ~ 839	23.94	0.248	22.49	0.177
n5	20	16QAM	834 ~ 839	23.15	0.207	21.70	0.148
n5	20	64QAM	834 ~ 839	21.64	0.146	20.19	0.104
n5	20	256QAM	834 ~ 839	19.75	0.094	18.30	0.068
n5	15	$\pi/2$ BPSK	831.5 ~ 841.5	23.93	0.247	22.48	0.177
n5	15	QPSK	831.5 ~ 841.5	23.97	0.249	22.52	0.179
n5	15	16QAM	831.5 ~ 841.5	23.25	0.211	21.80	0.151
n5	15	64QAM	831.5 ~ 841.5	21.73	0.149	20.28	0.107
n5	15	256QAM	831.5 ~ 841.5	20.08	0.102	18.63	0.073
n5	10	$\pi/2$ BPSK	829 ~ 844	23.91	0.246	22.46	0.176
n5	10	QPSK	829 ~ 844	23.94	0.248	22.49	0.177
n5	10	16QAM	829 ~ 844	23.29	0.213	21.84	0.153
n5	10	64QAM	829 ~ 844	21.95	0.157	20.50	0.112
n5	10	256QAM	829 ~ 844	20.09	0.102	18.64	0.073
n5	5	$\pi/2$ BPSK	826.5 ~ 846.5	23.85	0.243	22.40	0.174
n5	5	QPSK	826.5 ~ 846.5	24.04	0.254	22.59	0.182
n5	5	16QAM	826.5 ~ 846.5	23.30	0.214	21.85	0.153
n5	5	64QAM	826.5 ~ 846.5	21.81	0.152	20.36	0.109
n5	5	256QAM	826.5 ~ 846.5	19.77	0.095	18.32	0.068

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n70	15	$\pi/2$ BPSK	1 702.5	21.86	0.153	23.46	0.222
n70	15	QPSK	1 702.5	22.15	0.164	23.75	0.237
n70	15	16QAM	1 702.5	21.28	0.134	22.88	0.194
n70	15	64QAM	1 702.5	19.64	0.092	21.24	0.133
n70	15	256QAM	1 702.5	17.85	0.061	19.45	0.088
n70	10	$\pi/2$ BPSK	1 700 ~ 1 705	22.15	0.164	23.75	0.237
n70	10	QPSK	1 700 ~ 1 705	22.35	0.172	23.95	0.248
n70	10	16QAM	1 700 ~ 1 705	21.45	0.140	23.05	0.202
n70	10	64QAM	1 700 ~ 1 705	20.00	0.100	21.60	0.145
n70	10	256QAM	1 700 ~ 1 705	18.12	0.065	19.72	0.094
n70	5	$\pi/2$ BPSK	1 697.5 ~ 1 707.5	21.97	0.157	23.57	0.228
n70	5	QPSK	1 697.5 ~ 1 707.5	21.90	0.155	23.50	0.224
n70	5	16QAM	1 697.5 ~ 1 707.5	21.21	0.132	22.81	0.191
n70	5	64QAM	1 697.5 ~ 1 707.5	19.81	0.096	21.41	0.138
n70	5	256QAM	1 697.5 ~ 1 707.5	18.06	0.064	19.66	0.092
n66	40	$\pi/2$ BPSK	1 730 ~ 1 760	22.39	0.173	24.99	0.316
n66	40	QPSK	1 730 ~ 1 760	22.56	0.180	25.16	0.328
n66	40	16QAM	1 730 ~ 1 760	21.95	0.157	24.55	0.285
n66	40	64QAM	1 730 ~ 1 760	20.29	0.107	22.89	0.195
n66	40	256QAM	1 730 ~ 1 760	18.50	0.071	21.10	0.129
n66	30	$\pi/2$ BPSK	1 725 ~ 1 765	22.43	0.175	25.03	0.318
n66	30	QPSK	1 725 ~ 1 765	22.46	0.176	25.06	0.321
n66	30	16QAM	1 725 ~ 1 765	21.94	0.156	24.54	0.284
n66	30	64QAM	1 725 ~ 1 765	20.37	0.109	22.97	0.198
n66	30	256QAM	1 725 ~ 1 765	18.22	0.066	20.82	0.121
n66	20	$\pi/2$ BPSK	1 720 ~ 1 770	22.47	0.177	25.07	0.321
n66	20	QPSK	1 720 ~ 1 770	22.53	0.179	25.13	0.326
n66	20	16QAM	1 720 ~ 1 770	22.01	0.159	24.61	0.289
n66	20	64QAM	1 720 ~ 1 770	20.42	0.110	23.02	0.200
n66	20	256QAM	1 720 ~ 1 770	18.49	0.071	21.09	0.129
n66	15	$\pi/2$ BPSK	1 717.5 ~ 1 772.5	22.69	0.186	25.29	0.338
n66	15	QPSK	1 717.5 ~ 1 772.5	22.74	0.188	25.34	0.342
n66	15	16QAM	1 717.5 ~ 1 772.5	22.32	0.171	24.92	0.310
n66	15	64QAM	1 717.5 ~ 1 772.5	20.57	0.114	23.17	0.207
n66	15	256QAM	1 717.5 ~ 1 772.5	18.72	0.074	21.32	0.136
n66	10	$\pi/2$ BPSK	1 715 ~ 1 775	22.43	0.175	25.03	0.318
n66	10	QPSK	1 715 ~ 1 775	22.75	0.188	25.35	0.343
n66	10	16QAM	1 715 ~ 1 775	21.65	0.146	24.25	0.266
n66	10	64QAM	1 715 ~ 1 775	20.25	0.106	22.85	0.193
n66	10	256QAM	1 715 ~ 1 775	18.27	0.067	20.87	0.122
n66	5	$\pi/2$ BPSK	1 712.5 ~ 1 777.5	22.34	0.171	24.94	0.312
n66	5	QPSK	1 712.5 ~ 1 777.5	22.55	0.180	25.15	0.327
n66	5	16QAM	1 712.5 ~ 1 777.5	22.03	0.160	24.63	0.290
n66	5	64QAM	1 712.5 ~ 1 777.5	20.25	0.106	22.85	0.193
n66	5	256QAM	1 712.5 ~ 1 777.5	18.54	0.071	21.14	0.130

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n2	20	$\pi/2$ BPSK	1 860 ~ 1 900	23.27	0.212	27.67	0.585
n2	20	QPSK	1 860 ~ 1 900	23.37	0.217	27.77	0.598
n2	20	16QAM	1 860 ~ 1 900	22.66	0.185	27.06	0.508
n2	20	64QAM	1 860 ~ 1 900	21.40	0.138	25.80	0.380
n2	20	256QAM	1 860 ~ 1 900	19.23	0.084	23.63	0.231
n2	15	$\pi/2$ BPSK	1 857.5 ~ 1 902.5	23.56	0.227	27.96	0.625
n2	15	QPSK	1 857.5 ~ 1 902.5	23.37	0.217	27.77	0.598
n2	15	16QAM	1 857.5 ~ 1 902.5	22.75	0.188	27.15	0.519
n2	15	64QAM	1 857.5 ~ 1 902.5	21.17	0.131	25.57	0.361
n2	15	256QAM	1 857.5 ~ 1 902.5	19.00	0.079	23.40	0.219
n2	10	$\pi/2$ BPSK	1 855 ~ 1 905	23.25	0.211	27.65	0.582
n2	10	QPSK	1 855 ~ 1 905	23.32	0.215	27.72	0.592
n2	10	16QAM	1 855 ~ 1 905	22.62	0.183	27.02	0.504
n2	10	64QAM	1 855 ~ 1 905	20.90	0.123	25.30	0.339
n2	10	256QAM	1 855 ~ 1 905	18.97	0.079	23.37	0.217
n2	5	$\pi/2$ BPSK	1 852.5 ~ 1 907.5	23.25	0.211	27.65	0.582
n2	5	QPSK	1 852.5 ~ 1 907.5	23.27	0.212	27.67	0.585
n2	5	16QAM	1 852.5 ~ 1 907.5	22.40	0.174	26.80	0.479
n2	5	64QAM	1 852.5 ~ 1 907.5	20.94	0.124	25.34	0.342
n2	5	256QAM	1 852.5 ~ 1 907.5	19.38	0.087	23.78	0.239

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n25	40	$\pi/2$ BPSK	1 870 ~ 1 895	22.44	0.175	26.84	0.483
n25	40	QPSK	1 870 ~ 1 895	22.60	0.182	27.00	0.501
n25	40	16QAM	1 870 ~ 1 895	21.78	0.151	26.18	0.415
n25	40	64QAM	1 870 ~ 1 895	20.44	0.111	24.84	0.305
n25	40	256QAM	1 870 ~ 1 895	18.28	0.067	22.68	0.185
n25	30	$\pi/2$ BPSK	1 865 ~ 1 900	22.48	0.177	26.88	0.488
n25	30	QPSK	1 865 ~ 1 900	22.49	0.177	26.89	0.489
n25	30	16QAM	1 865 ~ 1 900	21.73	0.149	26.13	0.410
n25	30	64QAM	1 865 ~ 1 900	20.23	0.105	24.63	0.290
n25	30	256QAM	1 865 ~ 1 900	18.22	0.066	22.62	0.183
n25	25	$\pi/2$ BPSK	1 862.5 ~ 1 902.5	22.46	0.176	26.86	0.485
n25	25	QPSK	1 862.5 ~ 1 902.5	22.47	0.177	26.87	0.486
n25	25	16QAM	1 862.5 ~ 1 902.5	21.63	0.146	26.03	0.401
n25	25	64QAM	1 862.5 ~ 1 902.5	20.55	0.114	24.95	0.313
n25	25	256QAM	1 862.5 ~ 1 902.5	18.29	0.067	22.69	0.186
n25	20	$\pi/2$ BPSK	1 860 ~ 1 905	22.65	0.184	27.05	0.507
n25	20	QPSK	1 860 ~ 1 905	22.75	0.188	27.15	0.519
n25	20	16QAM	1 860 ~ 1 905	21.74	0.149	26.14	0.411
n25	20	64QAM	1 860 ~ 1 905	20.46	0.111	24.86	0.306
n25	20	256QAM	1 860 ~ 1 905	18.33	0.068	22.73	0.187
n25	15	$\pi/2$ BPSK	1 857.5 ~ 1 907.5	22.58	0.181	26.98	0.499
n25	15	QPSK	1 857.5 ~ 1 907.5	22.43	0.175	26.83	0.482
n25	15	16QAM	1 857.5 ~ 1 907.5	22.03	0.160	26.43	0.440
n25	15	64QAM	1 857.5 ~ 1 907.5	20.54	0.113	24.94	0.312
n25	15	256QAM	1 857.5 ~ 1 907.5	18.47	0.070	22.87	0.194
n25	10	$\pi/2$ BPSK	1 855 ~ 1 910	22.56	0.180	26.96	0.497
n25	10	QPSK	1 855 ~ 1 910	22.50	0.178	26.90	0.490
n25	10	16QAM	1 855 ~ 1 910	21.87	0.154	26.27	0.424
n25	10	64QAM	1 855 ~ 1 910	20.28	0.107	24.68	0.294
n25	10	256QAM	1 855 ~ 1 910	18.06	0.064	22.46	0.176
n25	5	$\pi/2$ BPSK	1 852.5 ~ 1 912.5	22.49	0.177	26.89	0.489
n25	5	QPSK	1 852.5 ~ 1 912.5	22.64	0.184	27.04	0.506
n25	5	16QAM	1 852.5 ~ 1 912.5	21.78	0.151	26.18	0.415
n25	5	64QAM	1 852.5 ~ 1 912.5	20.01	0.100	24.41	0.276
n25	5	256QAM	1 852.5 ~ 1 912.5	18.44	0.070	22.84	0.192

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n30	10	$\pi/2$ BPSK	2 310	17.74	0.059	20.14	0.103
n30	10	QPSK	2 310	17.94	0.062	20.34	0.108
n30	10	16QAM	2 310	16.99	0.050	19.39	0.087
n30	10	64QAM	2 310	15.54	0.036	17.94	0.062
n30	10	256QAM	2 310	13.47	0.022	15.87	0.039
n30	5	$\pi/2$ BPSK	2 307.5 ~ 2 312.5	17.85	0.061	20.25	0.106
n30	5	QPSK	2 307.5 ~ 2 312.5	17.85	0.061	20.25	0.106
n30	5	16QAM	2 307.5 ~ 2 312.5	17.18	0.052	19.58	0.091
n30	5	64QAM	2 307.5 ~ 2 312.5	15.68	0.037	18.08	0.064
n30	5	256QAM	2 307.5 ~ 2 312.5	13.90	0.025	16.30	0.043
n7	40	$\pi/2$ BPSK	2 520 ~ 2 550	22.67	0.185	26.37	0.434
n7	40	QPSK	2 520 ~ 2 550	22.76	0.189	26.46	0.443
n7	40	16QAM	2 520 ~ 2 550	21.92	0.156	25.62	0.365
n7	40	64QAM	2 520 ~ 2 550	20.59	0.115	24.29	0.269
n7	40	256QAM	2 520 ~ 2 550	18.66	0.073	22.36	0.172
n7	30	$\pi/2$ BPSK	2 515 ~ 2 555	22.71	0.187	26.41	0.438
n7	30	QPSK	2 515 ~ 2 555	22.75	0.188	26.45	0.442
n7	30	16QAM	2 515 ~ 2 555	21.93	0.156	25.63	0.366
n7	30	64QAM	2 515 ~ 2 555	20.49	0.112	24.19	0.262
n7	30	256QAM	2 515 ~ 2 555	18.47	0.070	22.17	0.165
n7	25	$\pi/2$ BPSK	2 512.5 ~ 2 557.5	22.71	0.187	26.41	0.438
n7	25	QPSK	2 512.5 ~ 2 557.5	22.72	0.187	26.42	0.439
n7	25	16QAM	2 512.5 ~ 2 557.5	21.89	0.155	25.59	0.362
n7	25	64QAM	2 512.5 ~ 2 557.5	20.29	0.107	23.99	0.251
n7	25	256QAM	2 512.5 ~ 2 557.5	18.78	0.076	22.48	0.177
n7	20	$\pi/2$ BPSK	2 510 ~ 2 560	22.86	0.193	26.56	0.453
n7	20	QPSK	2 510 ~ 2 560	22.82	0.191	26.52	0.449
n7	20	16QAM	2 510 ~ 2 560	21.78	0.151	25.48	0.353
n7	20	64QAM	2 510 ~ 2 560	20.32	0.108	24.02	0.252
n7	20	256QAM	2 510 ~ 2 560	18.52	0.071	22.22	0.167
n7	15	$\pi/2$ BPSK	2 507.5 ~ 2 562.5	22.69	0.186	26.39	0.436
n7	15	QPSK	2 507.5 ~ 2 562.5	22.77	0.189	26.47	0.444
n7	15	16QAM	2 507.5 ~ 2 562.5	21.99	0.158	25.69	0.371
n7	15	64QAM	2 507.5 ~ 2 562.5	20.23	0.105	23.93	0.247
n7	15	256QAM	2 507.5 ~ 2 562.5	18.67	0.074	22.37	0.173
n7	10	$\pi/2$ BPSK	2 505 ~ 2 565	22.73	0.187	26.43	0.440
n7	10	QPSK	2 505 ~ 2 565	22.89	0.195	26.59	0.456
n7	10	16QAM	2 505 ~ 2 565	22.05	0.160	25.75	0.376
n7	10	64QAM	2 505 ~ 2 565	20.42	0.110	24.12	0.258
n7	10	256QAM	2 505 ~ 2 565	18.72	0.074	22.42	0.175
n7	5	$\pi/2$ BPSK	2 502.5 ~ 2 567.5	22.62	0.183	26.32	0.429
n7	5	QPSK	2 502.5 ~ 2 567.5	22.43	0.175	26.13	0.410
n7	5	16QAM	2 502.5 ~ 2 567.5	22.01	0.159	25.71	0.372
n7	5	64QAM	2 502.5 ~ 2 567.5	20.32	0.108	24.02	0.252
n7	5	256QAM	2 502.5 ~ 2 567.5	18.48	0.070	22.18	0.165

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n41	100	$\pi/2$ BPSK	2 546.01 ~ 2 640.00	24.79	0.301	28.49	0.706
n41	100	QPSK	2 546.01 ~ 2 640.00	24.75	0.299	28.45	0.700
n41	100	16QAM	2 546.01 ~ 2 640.00	23.74	0.237	27.44	0.555
n41	100	64QAM	2 546.01 ~ 2 640.00	22.40	0.174	26.10	0.407
n41	100	256QAM	2 546.01 ~ 2 640.00	20.39	0.109	24.09	0.256
n41	90	$\pi/2$ BPSK	2 541.00 ~ 2 644.98	24.79	0.301	28.49	0.706
n41	90	QPSK	2 541.00 ~ 2 644.98	24.76	0.299	28.46	0.701
n41	90	16QAM	2 541.00 ~ 2 644.98	23.82	0.241	27.52	0.565
n41	90	64QAM	2 541.00 ~ 2 644.98	22.53	0.179	26.23	0.420
n41	90	256QAM	2 541.00 ~ 2 644.98	20.35	0.108	24.05	0.254
n41	80	$\pi/2$ BPSK	2 536.02 ~ 2 649.99	24.74	0.298	28.44	0.698
n41	80	QPSK	2 536.02 ~ 2 649.99	24.76	0.299	28.46	0.701
n41	80	16QAM	2 536.02 ~ 2 649.99	23.86	0.243	27.56	0.570
n41	80	64QAM	2 536.02 ~ 2 649.99	22.31	0.170	26.01	0.399
n41	80	256QAM	2 536.02 ~ 2 649.99	20.43	0.110	24.13	0.259
n41	70	$\pi/2$ BPSK	2 531.01 ~ 2 655.00	24.89	0.308	28.59	0.723
n41	70	QPSK	2 531.01 ~ 2 655.00	24.80	0.302	28.50	0.708
n41	70	16QAM	2 531.01 ~ 2 655.00	23.91	0.246	27.61	0.577
n41	70	64QAM	2 531.01 ~ 2 655.00	22.38	0.173	26.08	0.406
n41	70	256QAM	2 531.01 ~ 2 655.00	20.62	0.115	24.32	0.270
n41	60	$\pi/2$ BPSK	2 526.00 ~ 2 659.98	24.90	0.309	28.60	0.724
n41	60	QPSK	2 526.00 ~ 2 659.98	24.84	0.305	28.54	0.714
n41	60	16QAM	2 526.00 ~ 2 659.98	24.02	0.252	27.72	0.592
n41	60	64QAM	2 526.00 ~ 2 659.98	22.72	0.187	26.42	0.439
n41	60	256QAM	2 526.00 ~ 2 659.98	20.45	0.111	24.15	0.260
n41	50	$\pi/2$ BPSK	2 521.02 ~ 2 664.99	24.92	0.310	28.62	0.728
n41	50	QPSK	2 521.02 ~ 2 664.99	24.84	0.305	28.54	0.714
n41	50	16QAM	2 521.02 ~ 2 664.99	23.95	0.248	27.65	0.582
n41	50	64QAM	2 521.02 ~ 2 664.99	22.50	0.178	26.20	0.417
n41	50	256QAM	2 521.02 ~ 2 664.99	20.61	0.115	24.31	0.270
n41	40	$\pi/2$ BPSK	2 516.01 ~ 2 670.00	25.16	0.328	28.86	0.769
n41	40	QPSK	2 516.01 ~ 2 670.00	25.11	0.324	28.81	0.760
n41	40	16QAM	2 516.01 ~ 2 670.00	24.12	0.258	27.82	0.605
n41	40	64QAM	2 516.01 ~ 2 670.00	22.74	0.188	26.44	0.441
n41	40	256QAM	2 516.01 ~ 2 670.00	20.72	0.118	24.42	0.277
n41	30	$\pi/2$ BPSK	2 511.00 ~ 2 674.98	25.02	0.318	28.72	0.745
n41	30	QPSK	2 511.00 ~ 2 674.98	25.12	0.325	28.82	0.762
n41	30	16QAM	2 511.00 ~ 2 674.98	24.17	0.261	27.87	0.612
n41	30	64QAM	2 511.00 ~ 2 674.98	22.74	0.188	26.44	0.441
n41	30	256QAM	2 511.00 ~ 2 674.98	20.64	0.116	24.34	0.272
n41	20	$\pi/2$ BPSK	2 506.02 ~ 2 679.99	25.01	0.317	28.71	0.743
n41	20	QPSK	2 506.02 ~ 2 679.99	24.91	0.310	28.61	0.726
n41	20	16QAM	2 506.02 ~ 2 679.99	24.11	0.258	27.81	0.604
n41	20	64QAM	2 506.02 ~ 2 679.99	22.54	0.179	26.24	0.421
n41	20	256QAM	2 506.02 ~ 2 679.99	20.36	0.109	24.06	0.255

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n38	40	$\pi/2$ BPSK	2 590 ~ 2 600	25.14	0.327	28.24	0.667
n38	40	QPSK	2 590 ~ 2 600	25.22	0.333	28.32	0.679
n38	40	16QAM	2 590 ~ 2 600	24.27	0.267	27.37	0.546
n38	40	64QAM	2 590 ~ 2 600	22.75	0.188	25.85	0.385
n38	40	256QAM	2 590 ~ 2 600	20.87	0.122	23.97	0.249
n38	30	$\pi/2$ BPSK	2 585 ~ 2 605	25.48	0.353	28.58	0.721
n38	30	QPSK	2 585 ~ 2 605	25.66	0.368	28.76	0.752
n38	30	16QAM	2 585 ~ 2 605	24.59	0.288	27.69	0.587
n38	30	64QAM	2 585 ~ 2 605	23.11	0.205	26.21	0.418
n38	30	256QAM	2 585 ~ 2 605	21.21	0.132	24.31	0.270
n38	20	$\pi/2$ BPSK	2 580 ~ 2 610	24.93	0.311	28.03	0.635
n38	20	QPSK	2 580 ~ 2 610	24.92	0.310	28.02	0.634
n38	20	16QAM	2 580 ~ 2 610	24.11	0.258	27.21	0.526
n38	20	64QAM	2 580 ~ 2 610	22.79	0.190	25.89	0.388
n38	20	256QAM	2 580 ~ 2 610	20.56	0.114	23.66	0.232
n38	15	$\pi/2$ BPSK	2 577.5 ~ 2 612.5	25.04	0.319	28.14	0.652
n38	15	QPSK	2 577.5 ~ 2 612.5	25.21	0.332	28.31	0.678
n38	15	16QAM	2 577.5 ~ 2 612.5	24.16	0.261	27.26	0.532
n38	15	64QAM	2 577.5 ~ 2 612.5	22.74	0.188	25.84	0.384
n38	15	256QAM	2 577.5 ~ 2 612.5	21.17	0.131	24.27	0.267
n38	10	$\pi/2$ BPSK	2 575 ~ 2 615	24.94	0.312	28.04	0.637
n38	10	QPSK	2 575 ~ 2 615	25.18	0.330	28.28	0.673
n38	10	16QAM	2 575 ~ 2 615	24.22	0.264	27.32	0.540
n38	10	64QAM	2 575 ~ 2 615	22.85	0.193	25.95	0.394
n38	10	256QAM	2 575 ~ 2 615	20.68	0.117	23.78	0.239

3 450 ~ 3 550 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	100	$\pi/2$ BPSK	3 500.01	24.67	0.293	27.87	0.612
n78	100	QPSK	3 500.01	24.59	0.288	27.79	0.601
n78	100	16QAM	3 500.01	23.82	0.241	27.02	0.504
n78	100	64QAM	3 500.01	22.19	0.166	25.39	0.346
n78	100	256QAM	3 500.01	20.14	0.103	23.34	0.216
n78	90	$\pi/2$ BPSK	3 495.00 ~ 3 504.99	24.83	0.304	28.03	0.635
n78	90	QPSK	3 495.00 ~ 3 504.99	24.70	0.295	27.90	0.617
n78	90	16QAM	3 495.00 ~ 3 504.99	23.74	0.237	26.94	0.494
n78	90	64QAM	3 495.00 ~ 3 504.99	22.28	0.169	25.48	0.353
n78	90	256QAM	3 495.00 ~ 3 504.99	20.21	0.105	23.41	0.219
n78	80	$\pi/2$ BPSK	3 490.02 ~ 3 510.00	24.82	0.303	28.02	0.634
n78	80	QPSK	3 490.02 ~ 3 510.00	24.76	0.299	27.96	0.625
n78	80	16QAM	3 490.02 ~ 3 510.00	23.71	0.235	26.91	0.491
n78	80	64QAM	3 490.02 ~ 3 510.00	22.13	0.163	25.33	0.341
n78	80	256QAM	3 490.02 ~ 3 510.00	20.31	0.107	23.51	0.224
n78	70	$\pi/2$ BPSK	3 485.01 ~ 3 515.01	24.71	0.296	27.91	0.618
n78	70	QPSK	3 485.01 ~ 3 515.01	24.71	0.296	27.91	0.618
n78	70	16QAM	3 485.01 ~ 3 515.01	23.75	0.237	26.95	0.495
n78	70	64QAM	3 485.01 ~ 3 515.01	22.46	0.176	25.66	0.368
n78	70	256QAM	3 485.01 ~ 3 515.01	20.51	0.112	23.71	0.235
n78	60	$\pi/2$ BPSK	3 480.00 ~ 3 519.99	24.82	0.303	28.02	0.634
n78	60	QPSK	3 480.00 ~ 3 519.99	24.90	0.309	28.10	0.646
n78	60	16QAM	3 480.00 ~ 3 519.99	23.86	0.243	27.06	0.508
n78	60	64QAM	3 480.00 ~ 3 519.99	22.68	0.185	25.88	0.387
n78	60	256QAM	3 480.00 ~ 3 519.99	20.48	0.112	23.68	0.233
n78	50	$\pi/2$ BPSK	3 475.02 ~ 3 525.00	24.98	0.315	28.18	0.658
n78	50	QPSK	3 475.02 ~ 3 525.00	24.98	0.315	28.18	0.658
n78	50	16QAM	3 475.02 ~ 3 525.00	23.92	0.247	27.12	0.515
n78	50	64QAM	3 475.02 ~ 3 525.00	22.40	0.174	25.60	0.363
n78	50	256QAM	3 475.02 ~ 3 525.00	20.47	0.111	23.67	0.233
n78	40	$\pi/2$ BPSK	3 470.01 ~ 3 530.01	25.32	0.340	28.52	0.711
n78	40	QPSK	3 470.01 ~ 3 530.01	25.12	0.325	28.32	0.679
n78	40	16QAM	3 470.01 ~ 3 530.01	24.32	0.270	27.52	0.565
n78	40	64QAM	3 470.01 ~ 3 530.01	22.76	0.189	25.96	0.394
n78	40	256QAM	3 470.01 ~ 3 530.01	20.76	0.119	23.96	0.249
n78	30	$\pi/2$ BPSK	3 465.00 ~ 3 534.99	25.24	0.334	28.44	0.698
n78	30	QPSK	3 465.00 ~ 3 534.99	25.23	0.333	28.43	0.697
n78	30	16QAM	3 465.00 ~ 3 534.99	24.23	0.265	27.43	0.553
n78	30	64QAM	3 465.00 ~ 3 534.99	22.87	0.194	26.07	0.405
n78	30	256QAM	3 465.00 ~ 3 534.99	20.93	0.124	24.13	0.259
n78	20	$\pi/2$ BPSK	3 460.02 ~ 3 540.00	25.12	0.325	28.32	0.679
n78	20	QPSK	3 460.02 ~ 3 540.00	25.06	0.321	28.26	0.670
n78	20	16QAM	3 460.02 ~ 3 540.00	24.56	0.286	27.76	0.597
n78	20	64QAM	3 460.02 ~ 3 540.00	22.86	0.193	26.06	0.404
n78	20	256QAM	3 460.02 ~ 3 540.00	21.11	0.129	24.31	0.270

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	15	$\pi/2$ BPSK	3 457.5 ~ 3 542.49	25.08	0.322	28.28	0.673
n78	15	QPSK	3 457.5 ~ 3 542.49	25.14	0.327	28.34	0.682
n78	15	16QAM	3 457.5 ~ 3 542.49	24.06	0.255	27.26	0.532
n78	15	64QAM	3 457.5 ~ 3 542.49	22.52	0.179	25.72	0.373
n78	15	256QAM	3 457.5 ~ 3 542.49	20.80	0.120	24.00	0.251
n78	10	$\pi/2$ BPSK	3 455.01 ~ 3 545.01	25.03	0.318	28.23	0.665
n78	10	QPSK	3 455.01 ~ 3 545.01	24.82	0.303	28.02	0.634
n78	10	16QAM	3 455.01 ~ 3 545.01	23.96	0.249	27.16	0.520
n78	10	64QAM	3 455.01 ~ 3 545.01	22.58	0.181	25.78	0.378
n78	10	256QAM	3 455.01 ~ 3 545.01	20.63	0.116	23.83	0.242

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	100	$\pi/2$ BPSK	3 500.01	24.68	0.294	27.88	0.614
n77	100	QPSK	3 500.01	24.75	0.299	27.95	0.624
n77	100	16QAM	3 500.01	23.54	0.226	26.74	0.472
n77	100	64QAM	3 500.01	22.31	0.170	25.51	0.356
n77	100	256QAM	3 500.01	19.93	0.098	23.13	0.206
n77	90	$\pi/2$ BPSK	3 495.00 ~ 3 504.99	24.64	0.291	27.84	0.608
n77	90	QPSK	3 495.00 ~ 3 504.99	24.72	0.296	27.92	0.619
n77	90	16QAM	3 495.00 ~ 3 504.99	23.80	0.240	27.00	0.501
n77	90	64QAM	3 495.00 ~ 3 504.99	22.16	0.164	25.36	0.344
n77	90	256QAM	3 495.00 ~ 3 504.99	20.28	0.107	23.48	0.223
n77	80	$\pi/2$ BPSK	3 490.02 ~ 3 510.00	24.71	0.296	27.91	0.618
n77	80	QPSK	3 490.02 ~ 3 510.00	24.78	0.301	27.98	0.628
n77	80	16QAM	3 490.02 ~ 3 510.00	23.70	0.234	26.90	0.490
n77	80	64QAM	3 490.02 ~ 3 510.00	22.42	0.175	25.62	0.365
n77	80	256QAM	3 490.02 ~ 3 510.00	20.33	0.108	23.53	0.225
n77	70	$\pi/2$ BPSK	3 485.01 ~ 3 515.01	24.72	0.296	27.92	0.619
n77	70	QPSK	3 485.01 ~ 3 515.01	24.69	0.294	27.89	0.615
n77	70	16QAM	3 485.01 ~ 3 515.01	23.79	0.239	26.99	0.500
n77	70	64QAM	3 485.01 ~ 3 515.01	22.17	0.165	25.37	0.344
n77	70	256QAM	3 485.01 ~ 3 515.01	20.30	0.107	23.50	0.224
n77	60	$\pi/2$ BPSK	3 480.00 ~ 3 519.99	24.87	0.307	28.07	0.641
n77	60	QPSK	3 480.00 ~ 3 519.99	24.76	0.299	27.96	0.625
n77	60	16QAM	3 480.00 ~ 3 519.99	23.93	0.247	27.13	0.516
n77	60	64QAM	3 480.00 ~ 3 519.99	22.73	0.187	25.93	0.392
n77	60	256QAM	3 480.00 ~ 3 519.99	20.55	0.114	23.75	0.237
n77	50	$\pi/2$ BPSK	3 475.02 ~ 3 525.00	24.94	0.312	28.14	0.652
n77	50	QPSK	3 475.02 ~ 3 525.00	24.79	0.301	27.99	0.630
n77	50	16QAM	3 475.02 ~ 3 525.00	23.96	0.249	27.16	0.520
n77	50	64QAM	3 475.02 ~ 3 525.00	22.34	0.167	25.54	0.358
n77	50	256QAM	3 475.02 ~ 3 525.00	20.68	0.117	23.88	0.244
n77	40	$\pi/2$ BPSK	3 470.01 ~ 3 529.98	25.04	0.319	28.24	0.667
n77	40	QPSK	3 470.01 ~ 3 529.98	25.17	0.329	28.37	0.687
n77	40	16QAM	3 470.01 ~ 3 529.98	24.34	0.272	27.54	0.568
n77	40	64QAM	3 470.01 ~ 3 529.98	23.08	0.203	26.28	0.425
n77	40	256QAM	3 470.01 ~ 3 529.98	21.03	0.127	24.23	0.265
n77	30	$\pi/2$ BPSK	3 465.00 ~ 3 534.99	25.16	0.328	28.36	0.685
n77	30	QPSK	3 465.00 ~ 3 534.99	25.33	0.341	28.53	0.713
n77	30	16QAM	3 465.00 ~ 3 534.99	24.32	0.270	27.52	0.565
n77	30	64QAM	3 465.00 ~ 3 534.99	22.91	0.195	26.11	0.408
n77	30	256QAM	3 465.00 ~ 3 534.99	20.81	0.121	24.01	0.252
n77	20	$\pi/2$ BPSK	3 460.01 ~ 3 540.00	25.09	0.323	28.29	0.675
n77	20	QPSK	3 460.01 ~ 3 540.00	24.97	0.314	28.17	0.656
n77	20	16QAM	3 460.01 ~ 3 540.00	24.15	0.260	27.35	0.543
n77	20	64QAM	3 460.01 ~ 3 540.00	22.97	0.198	26.17	0.414
n77	20	256QAM	3 460.01 ~ 3 540.00	20.58	0.114	23.78	0.239

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	15	$\pi/2$ BPSK	3 457.50 ~ 3 542.49	24.93	0.311	28.13	0.650
n77	15	QPSK	3 457.50 ~ 3 542.49	24.83	0.304	28.03	0.635
n77	15	16QAM	3 457.50 ~ 3 542.49	23.76	0.238	26.96	0.497
n77	15	64QAM	3 457.50 ~ 3 542.49	22.79	0.190	25.99	0.397
n77	15	256QAM	3 457.50 ~ 3 542.49	20.87	0.122	24.07	0.255
n77	10	$\pi/2$ BPSK	3 455.01 ~ 3 545.01	24.84	0.305	28.04	0.637
n77	10	QPSK	3 455.01 ~ 3 545.01	25.02	0.318	28.22	0.664
n77	10	16QAM	3 455.01 ~ 3 545.01	23.96	0.249	27.16	0.520
n77	10	64QAM	3 455.01 ~ 3 545.01	22.69	0.186	25.89	0.388
n77	10	256QAM	3 455.01 ~ 3 545.01	20.27	0.106	23.47	0.222

3 700 ~ 3 800 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	100	$\pi/2$ BPSK	3 750.00	25.01	0.317	28.91	0.778
n78	100	QPSK	3 750.00	25.03	0.318	28.93	0.782
n78	100	16QAM	3 750.00	24.04	0.254	27.94	0.622
n78	100	64QAM	3 750.00	22.34	0.171	26.24	0.421
n78	100	256QAM	3 750.00	20.55	0.114	24.45	0.279
n78	90	$\pi/2$ BPSK	3 745.02 ~ 3 754.98	24.94	0.312	28.84	0.766
n78	90	QPSK	3 745.02 ~ 3 754.98	24.96	0.313	28.86	0.769
n78	90	16QAM	3 745.02 ~ 3 754.98	24.11	0.258	28.01	0.632
n78	90	64QAM	3 745.02 ~ 3 754.98	22.73	0.187	26.63	0.460
n78	90	256QAM	3 745.02 ~ 3 754.98	20.72	0.118	24.62	0.290
n78	80	$\pi/2$ BPSK	3 740.01 ~ 3 759.99	25.00	0.316	28.90	0.776
n78	80	QPSK	3 740.01 ~ 3 759.99	24.97	0.314	28.87	0.771
n78	80	16QAM	3 740.01 ~ 3 759.99	24.08	0.256	27.98	0.628
n78	80	64QAM	3 740.01 ~ 3 759.99	22.53	0.179	26.43	0.440
n78	80	256QAM	3 740.01 ~ 3 759.99	20.52	0.113	24.42	0.277
n78	70	$\pi/2$ BPSK	3 735.00 ~ 3 765.00	24.98	0.315	28.88	0.773
n78	70	QPSK	3 735.00 ~ 3 765.00	24.94	0.312	28.84	0.766
n78	70	16QAM	3 735.00 ~ 3 765.00	23.89	0.245	27.79	0.601
n78	70	64QAM	3 735.00 ~ 3 765.00	22.77	0.189	26.67	0.465
n78	70	256QAM	3 735.00 ~ 3 765.00	20.70	0.117	24.60	0.288
n78	60	$\pi/2$ BPSK	3 730.02 ~ 3 769.98	25.11	0.324	29.01	0.796
n78	60	QPSK	3 730.02 ~ 3 769.98	25.11	0.324	29.01	0.796
n78	60	16QAM	3 730.02 ~ 3 769.98	24.07	0.255	27.97	0.627
n78	60	64QAM	3 730.02 ~ 3 769.98	22.77	0.189	26.67	0.465
n78	60	256QAM	3 730.02 ~ 3 769.98	20.56	0.114	24.46	0.279
n78	50	$\pi/2$ BPSK	3 725.01 ~ 3 774.99	25.15	0.327	29.05	0.804
n78	50	QPSK	3 725.01 ~ 3 774.99	25.07	0.321	28.97	0.789
n78	50	16QAM	3 725.01 ~ 3 774.99	24.15	0.260	28.05	0.638
n78	50	64QAM	3 725.01 ~ 3 774.99	22.67	0.185	26.57	0.454
n78	50	256QAM	3 725.01 ~ 3 774.99	20.71	0.118	24.61	0.289
n78	40	$\pi/2$ BPSK	3 720.00 ~ 3 780.00	25.41	0.348	29.31	0.853
n78	40	QPSK	3 720.00 ~ 3 780.00	25.49	0.354	29.39	0.869
n78	40	16QAM	3 720.00 ~ 3 780.00	24.46	0.279	28.36	0.685
n78	40	64QAM	3 720.00 ~ 3 780.00	22.92	0.196	26.82	0.481
n78	40	256QAM	3 720.00 ~ 3 780.00	21.02	0.126	24.92	0.310
n78	30	$\pi/2$ BPSK	3 715.02 ~ 3 785.01	25.31	0.340	29.21	0.834
n78	30	QPSK	3 715.02 ~ 3 785.01	25.26	0.336	29.16	0.824
n78	30	16QAM	3 715.02 ~ 3 785.01	24.56	0.286	28.46	0.701
n78	30	64QAM	3 715.02 ~ 3 785.01	22.94	0.197	26.84	0.483
n78	30	256QAM	3 715.02 ~ 3 785.01	21.02	0.126	24.92	0.310
n78	20	$\pi/2$ BPSK	3 710.01 ~ 3 789.99	25.29	0.338	29.19	0.830
n78	20	QPSK	3 710.01 ~ 3 789.99	25.21	0.332	29.11	0.815
n78	20	16QAM	3 710.01 ~ 3 789.99	24.40	0.275	28.30	0.676
n78	20	64QAM	3 710.01 ~ 3 789.99	23.03	0.201	26.93	0.493
n78	20	256QAM	3 710.01 ~ 3 789.99	20.90	0.123	24.80	0.302

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n78	15	$\pi/2$ BPSK	3 707.52 ~ 3 792.48	25.11	0.324	29.01	0.796
n78	15	QPSK	3 707.52 ~ 3 792.48	25.31	0.340	29.21	0.834
n78	15	16QAM	3 707.52 ~ 3 792.48	24.45	0.279	28.35	0.684
n78	15	64QAM	3 707.52 ~ 3 792.48	22.82	0.191	26.72	0.470
n78	15	256QAM	3 707.52 ~ 3 792.48	21.18	0.131	25.08	0.322
n78	10	$\pi/2$ BPSK	3 705.00 ~ 3 795.00	25.08	0.322	28.98	0.791
n78	10	QPSK	3 705.00 ~ 3 795.00	25.28	0.337	29.18	0.828
n78	10	16QAM	3 705.00 ~ 3 795.00	24.23	0.265	28.13	0.650
n78	10	64QAM	3 705.00 ~ 3 795.00	22.74	0.188	26.64	0.461
n78	10	256QAM	3 705.00 ~ 3 795.00	20.57	0.114	24.47	0.280

3 700 ~ 3 980 MHz band

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	100	$\pi/2$ BPSK	3 750.00 ~ 3 930.00	25.01	0.317	28.91	0.778
n77	100	QPSK	3 750.00 ~ 3 930.00	24.92	0.310	28.82	0.762
n77	100	16QAM	3 750.00 ~ 3 930.00	23.91	0.246	27.81	0.604
n77	100	64QAM	3 750.00 ~ 3 930.00	22.66	0.185	26.56	0.453
n77	100	256QAM	3 750.00 ~ 3 930.00	20.57	0.114	24.47	0.280
n77	90	$\pi/2$ BPSK	3 745.02 ~ 3 934.98	24.90	0.309	28.80	0.759
n77	90	QPSK	3 745.02 ~ 3 934.98	24.89	0.308	28.79	0.757
n77	90	16QAM	3 745.02 ~ 3 934.98	24.15	0.260	28.05	0.638
n77	90	64QAM	3 745.02 ~ 3 934.98	22.27	0.169	26.17	0.414
n77	90	256QAM	3 745.02 ~ 3 934.98	20.49	0.112	24.39	0.275
n77	80	$\pi/2$ BPSK	3 740.01 ~ 3 939.99	24.88	0.308	28.78	0.755
n77	80	QPSK	3 740.01 ~ 3 939.99	24.96	0.313	28.86	0.769
n77	80	16QAM	3 740.01 ~ 3 939.99	24.15	0.260	28.05	0.638
n77	80	64QAM	3 740.01 ~ 3 939.99	22.55	0.180	26.45	0.442
n77	80	256QAM	3 740.01 ~ 3 939.99	20.43	0.110	24.33	0.271
n77	70	$\pi/2$ BPSK	3 735.00 ~ 3 945.00	24.96	0.313	28.86	0.769
n77	70	QPSK	3 735.00 ~ 3 945.00	24.91	0.310	28.81	0.760
n77	70	16QAM	3 735.00 ~ 3 945.00	24.06	0.255	27.96	0.625
n77	70	64QAM	3 735.00 ~ 3 945.00	22.79	0.190	26.69	0.467
n77	70	256QAM	3 735.00 ~ 3 945.00	20.49	0.112	24.39	0.275
n77	60	$\pi/2$ BPSK	3 730.02 ~ 3 949.98	24.97	0.314	28.87	0.771
n77	60	QPSK	3 730.02 ~ 3 949.98	25.00	0.316	28.90	0.776
n77	60	16QAM	3 730.02 ~ 3 949.98	24.07	0.255	27.97	0.627
n77	60	64QAM	3 730.02 ~ 3 949.98	22.82	0.191	26.72	0.470
n77	60	256QAM	3 730.02 ~ 3 949.98	20.52	0.113	24.42	0.277
n77	50	$\pi/2$ BPSK	3 725.01 ~ 3 954.99	24.99	0.316	28.89	0.774
n77	50	QPSK	3 725.01 ~ 3 954.99	24.93	0.311	28.83	0.764
n77	50	16QAM	3 725.01 ~ 3 954.99	24.21	0.264	28.11	0.647
n77	50	64QAM	3 725.01 ~ 3 954.99	22.74	0.188	26.64	0.461
n77	50	256QAM	3 725.01 ~ 3 954.99	20.68	0.117	24.58	0.287
n77	40	$\pi/2$ BPSK	3 720.00 ~ 3 960.00	25.38	0.345	29.28	0.847
n77	40	QPSK	3 720.00 ~ 3 960.00	25.29	0.338	29.19	0.830
n77	40	16QAM	3 720.00 ~ 3 960.00	24.39	0.275	28.29	0.675
n77	40	64QAM	3 720.00 ~ 3 960.00	22.93	0.196	26.83	0.482
n77	40	256QAM	3 720.00 ~ 3 960.00	21.07	0.128	24.97	0.314
n77	30	$\pi/2$ BPSK	3 715.02 ~ 3 964.98	25.22	0.333	29.12	0.817
n77	30	QPSK	3 715.02 ~ 3 964.98	25.22	0.333	29.12	0.817
n77	30	16QAM	3 715.02 ~ 3 964.98	24.21	0.264	28.11	0.647
n77	30	64QAM	3 715.02 ~ 3 964.98	22.74	0.188	26.64	0.461
n77	30	256QAM	3 715.02 ~ 3 964.98	20.62	0.115	24.52	0.283

NR Frequency Band	Channel Bandwidth (MHz)	Modulation	TX Frequency (MHz)	Conducted Output Power		EIRP	
				Max power (dBm)	Max power (W)	Max power (dBm)	Max power (W)
n77	20	$\pi/2$ BPSK	3 710.01 ~ 3 969.99	25.11	0.324	29.01	0.796
n77	20	QPSK	3 710.01 ~ 3 969.99	25.16	0.328	29.06	0.805
n77	20	16QAM	3 710.01 ~ 3 969.99	24.16	0.261	28.06	0.640
n77	20	64QAM	3 710.01 ~ 3 969.99	22.88	0.194	26.78	0.476
n77	20	256QAM	3 710.01 ~ 3 969.99	21.26	0.134	25.16	0.328
n77	15	$\pi/2$ BPSK	3 707.52 ~ 3 972.48	25.10	0.324	29.00	0.794
n77	15	QPSK	3 707.52 ~ 3 972.48	25.22	0.333	29.12	0.817
n77	15	16QAM	3 707.52 ~ 3 972.48	23.95	0.248	27.85	0.610
n77	15	64QAM	3 707.52 ~ 3 972.48	22.78	0.190	26.68	0.466
n77	15	256QAM	3 707.52 ~ 3 972.48	20.73	0.118	24.63	0.290
n77	10	$\pi/2$ BPSK	3 705.00 ~ 3 975.00	24.95	0.313	28.85	0.767
n77	10	QPSK	3 705.00 ~ 3 975.00	24.91	0.310	28.81	0.760
n77	10	16QAM	3 705.00 ~ 3 975.00	24.08	0.256	27.98	0.628
n77	10	64QAM	3 705.00 ~ 3 975.00	22.52	0.179	26.42	0.439
n77	10	256QAM	3 705.00 ~ 3 975.00	20.84	0.121	24.74	0.298

2. INTRODUCTION

2.1. EUT DESCRIPTION

This device supports the following capabilities:

Bluetooth LE, 2.4/5GHz WLAN, WCDMA, LTE/LTE up-link carrier aggregation, 5G NR(FR1)/5G NR up-link carrier aggregation and ENDC

5G NR supports SCS 15 kHz for FDD Band and SCS 30 kHz for TDD Band.

2.2. TESTING ENVIRONMENT

Ambient Condition	
▪ Temperature	+22 °C ~ +24 °C
▪ Relative Humidity	44 % ~ 50 %

2.3. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Antenna-port conducted emission	1.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Below 1 GHz)	5.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	4.8 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Above 18 GHz)	5.0 dB (The confidence level is about 95 %, $k = 2$)

2.5. TEST FACILITY

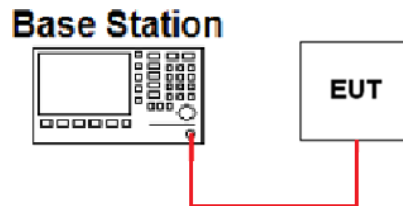
Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.		
The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014.		
- FCC & IC MRA Designation No. : KR0034		
- ISED#: 5740A		
www.dtnet.net		
Telephone	:	+ 82-31-321-2664
FAX	:	+ 82-31-321-1664

3. DESCRIPTION OF TESTS

3.1. MAXIMUM OUTPUT POWER

- Conducted Output Power

Test Set-up(Case 1)



Test Procedure

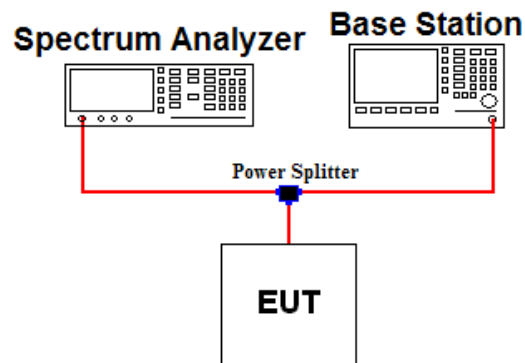
- KDB971168 D01v03r01 - Section 5.2
- ANSI C63.26-2015 – Section 5.2.4.2

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.

If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

- A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
- A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $[10 \log (1/\text{duty cycle})]$.

Test Set-up(Case 2)



Note: The following procedure was used for Band 30.

Test Procedure

- KDB971168 D01v03r01 - Section 5.4
- ANSI C63.26-2015 – Section 5.2.4.5, 5.2.4.4.1

Test setting

1. Set span to 2 x to 3 x the OBW.
2. **Set RBW = 5 MHz**
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
6. Detector = power averaging (rms).
7. Set sweep trigger to “free run”
8. If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
9. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over multiple symbols, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.
10. By using the marker function to identify the maximum PSD instead of summing the power across the OBW.

- ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

Test Procedure

- KDB971168 D01v03r01 - Section 5.6
- ANSI C63.26-2015 – Section 5.2.5.5

Determining ERP and EIRP from conducted RF output power measurement results

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

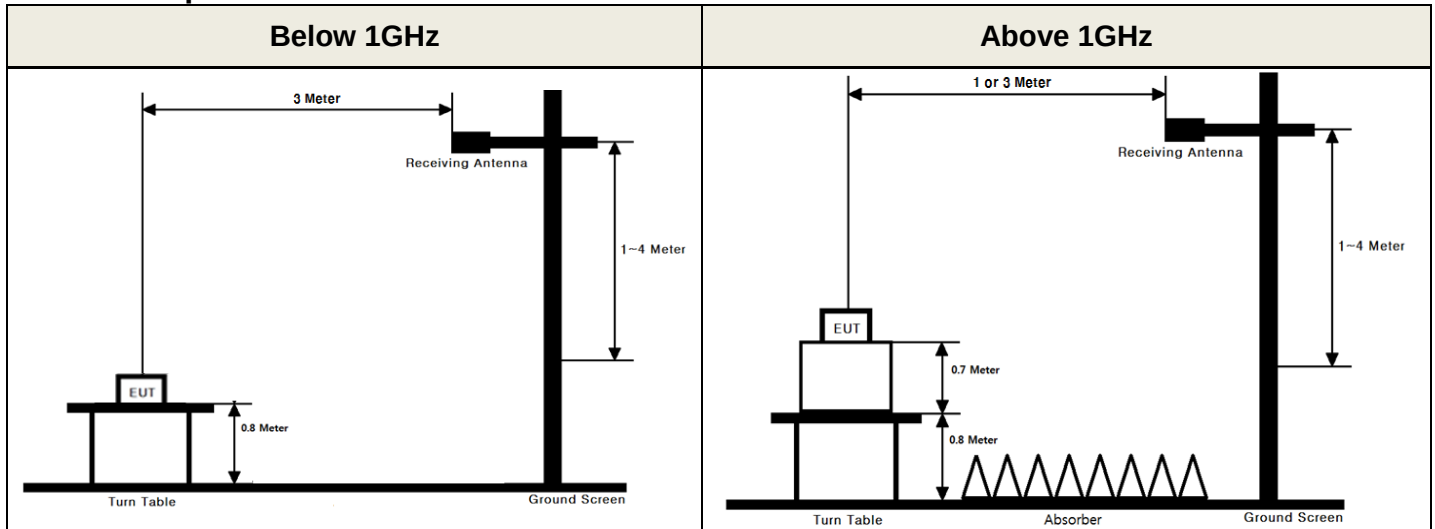
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

3.2. UNDESIRABLE EMISSIONS

Test Set-up



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Test Procedure

- ANSI/TIA-603-E-2016 - Section 2.2.12
- KDB971168 D01v03r01 - Section 5.8
- ANSI C63.26-2015 – Section 5.5

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW $\geq 3 \times$ RBW
2. Detector = RMS & Trace mode = power averaging (rms)
3. Sweep time = Auto couple
4. Number of sweep point $\geq 2 \times$ span / RBW
5. The trace was allowed to stabilize

Note: If duty cycle < 98%, add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission.

Band(s)	$T_{\text{on}}(\text{ms})$	$T_{\text{on+off}}(\text{ms})$	Duty cycle = $T_{\text{on}} / (T_{\text{on+off}})$	$10 \log (1/\text{duty cycle})$
38, 41, 77, 78	1.0	5.0	0.2	6.99 dB

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

This measurement was performed with the EUT oriented in 3 orthogonal axis.

4. LIST OF TEST EQUIPMENT

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal. Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	23/12/15	24/12/15	MY48010133
Spectrum Analyzer	KEYSIGHT	N9030B	23/12/15	24/12/15	MY55480168
DC power supply	DIGITAL	DPR-303D	24/06/05	25/06/05	0120044
Multimeter	FLUKE	17B+	23/12/15	24/12/15	36390701WS
Radio Communication Analyzer	KEYSIGHT	E7515B	23/12/15	24/12/15	MY58300723
Radio Communication Analyzer	KEYSIGHT	E7515B	24/06/05	25/06/05	MY60192461
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	120612-1
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	090205-4
Resistive Divider	Clear Microwave	D240	24/06/10	25/06/10	2
Signal Generator	Rohde Schwarz	SMBV100A	23/12/15	24/12/15	255571
Signal Generator	ANRITSU	MG3695C	23/12/15	24/12/15	173501
Loop Antenna	ETS-Lindgren	6502	24/11/08	26/11/08	00060496
Bilog Antenna	Schwarzbeck	VULB 9160	23/12/15	24/12/15	3362
HORN ANT	ETS	3117	23/12/15	24/12/15	00140394
HORN ANT	A.H.Systems	SAS-574	24/06/11	25/06/11	155
PreAmplifier	H.P	8447D	23/12/15	24/12/15	2944A07774
PreAmplifier	Agilent	8449B	23/12/15	24/12/15	3008A02108
PreAmplifier	A.H.Systems Inc.	PAM-1840VH	24/06/05	25/06/05	163
High-pass filter	Wainwright	WHKX12-935-1000-15000-40SS	23/12/15	24/12/15	7
High-pass filter	Wainwright	WHKX10-2838-3300-18000-60SS	23/12/15	24/12/15	2
High-pass filter	Wainwright	WHKX6-6320-8000-26500-40CC	23/12/15	24/12/15	2
High-pass filter	Wainwright	WHNX5.0/26.5G-6SS	24/06/04	25/06/04	8
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-1
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-2
Cable	JUNKOSHA	MWX241/B	24/01/03	25/01/03	M-3
Cable	JUNKOSHA	MWX221	24/01/03	25/01/03	M-4
Cable	JUNKOSHA	MWX221	24/01/03	25/01/03	M-5
Cable	JUNFLON	J12J101757-00	24/01/03	25/01/03	M-7
Cable	HUBER+SUHNER	SUCOFLEX104	24/01/03	25/01/03	M-8
Cable	HUBER+SUHNER	SUCOFLEX106	24/01/03	25/01/03	M-9
Cable	JUNKOSHA	MWX315	24/01/03	25/01/03	M-10
Cable	Radiall	TESTPRO3	24/01/03	25/01/03	RFC-44
Cable	JUNKOSHA	MWX241	24/01/03	25/01/03	mmW-1
Cable	JUNKOSHA	MWX241	24/01/03	25/01/03	mmW-4

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Status Note 1
2.1046	Conducted Output Power	N/A	C
2.1046 90.635(b)	Conducted Output Power (n26: 814 ~ 824 MHz)	< 100 Watts	C
27.50(b)(9) 27.50(c)(9) 90.542(a)(6)	Effective Radiated Power (n12, 13, 14, 71)	< 30 Watts max. ERP (mobile station)	C
22.913(a.5)	Effective Radiated Power (n26, 5: 824 ~ 824 MHz)	< 7 Watts max. ERP	C
27.50(d)(4) 27.50(k)(3) 27.50(j)(3)	Equivalent Isotropic Radiated Power (n66, 70, 77, 78)	< 1 Watts max. EIRP	C
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (n25, 2, 7, 41, 38)	< 2 Watts max. EIRP	C
27.50(a)(3)	Equivalent Isotropic Radiated Power (n30)	< 250mW/5MHz max. EIRP	C
2.1053 22.917(a) 24.238(a) 27.53(h)(1) 27.53(g) 90.543(c) 27.53(n)(2) 27.53(l)(2)	Undesirable Emissions (n26, 5, 2, 25, 66, 12, 13, 14, 70, 71, 77, 78)	> 43 + 10log ₁₀ (P) dB for all out-of-band emissions	C
27.53(f) 90.543(f)	Undesirable Emissions in 1559 ~ 1610 MHz (n13, 14)	< -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions of less than 700 Hz bandwidth)	C
27.53(m)(4)	Undesirable Emissions (n7, 41, 38)	> 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	C
27.53(a.4)	Undesirable Emissions (n30)	> 70 + 10 log (P) dB below 2288 MHz and Above 2365 MHz	C

Note 1: **C**=Comply **NC**=Not Comply **NT**=Not Tested **NA**=Not Applicable

Note 2: This device uses the certified module and the power configuration for band n30/77/78 was reduced by software.

The output power and radiated test items were measured and spot-check testing were performed on other FCC requirements.(OBW, Conducted band edge, Conducted spurious emission) Spot-check test results do not exceed the module results.

Please refer to the module test report for conducted signal test items. (FCC ID: XMR2022RM520NGL)

Note 3: Radiated test items were performed in three orthogonal EUT positions and the worst case data was reported.

Note 4: All antenna configuration were investigated and worst case data were reported.

6. SAMPLE CALCULATION

A. For substitution method

Unwanted emissions

- 1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
- 2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3) Vary the measurement antenna height through 1 m to 4 m and the rotate EUT through 360° in order to determine the maximum emission level.
- 4) Record the measured emission level and frequency using the available test method.
If required by the test method, add $10 \log(1/\text{duty cycle})$ to measured emission level.
- 5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 6) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude. And adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the previously emission level[Measured level + $10 \log(1/\text{duty cycle})$].
- 7) The conducted power at the terminal of the substitute antenna is measured.
- 8) Record the level at substituted antenna terminal.
- 9) The result is calculated as below;

Result: EIRP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBi)

Result: ERP(dBm) = LEVLE@ANTENNA TERMINAL + TX Antenna Gain (dBd)

Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB

7. TEST DATA

7.1. ERP&EIRP

- Test Notes

1) EIRP(dBm) = Conducted Output power(dBm) + Antenna Gain(dBi)

ERP = EIRP – 2.15(dB)

7.1.1. NR Band n71

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	673	$\pi/2$ BPSK	1/Mid	23.77	1.9	25.67	23.52
		QPSK	1/Mid	24.16	1.9	26.06	23.91
		16QAM	1/Mid	23.34	1.9	25.24	23.09
		64QAM	1/Inner right	21.79	1.9	23.69	21.54
		256QAM	1/inner left	19.52	1.9	21.42	19.27
	680.5	$\pi/2$ BPSK	1/inner left	23.66	1.9	25.56	23.41
		QPSK	1/inner left	23.91	1.9	25.81	23.66
		16QAM	1/Mid	23.09	1.9	24.99	22.84
		64QAM	1/Mid	21.66	1.9	23.56	21.41
		256QAM	1/edge right	19.58	1.9	21.48	19.33
	688	$\pi/2$ BPSK	1/inner left	24.01	1.9	25.91	23.76
		QPSK	1/inner left	23.92	1.9	25.82	23.67
		16QAM	1/inner left	23.08	1.9	24.98	22.83
		64QAM	1/edge left	21.54	1.9	23.44	21.29
		256QAM	1/edge left	19.61	1.9	21.51	19.36
15	670.5	$\pi/2$ BPSK	1/inner left	24.03	1.9	25.93	23.78
		QPSK	1/inner left	23.86	1.9	25.76	23.61
		16QAM	1/inner left	22.98	1.9	24.88	22.73
		64QAM	1/Mid	21.60	1.9	23.50	21.35
		256QAM	1/Mid	19.70	1.9	21.60	19.45
	680.5	$\pi/2$ BPSK	1/Mid	23.85	1.9	25.75	23.60
		QPSK	1/inner left	24.07	1.9	25.97	23.82
		16QAM	1/Mid	22.98	1.9	24.88	22.73
		64QAM	1/inner left	21.55	1.9	23.45	21.30
		256QAM	1/edge left	19.76	1.9	21.66	19.51
	690.5	$\pi/2$ BPSK	1/inner left	23.75	1.9	25.65	23.50
		QPSK	1/inner left	24.06	1.9	25.96	23.81
		16QAM	1/inner left	22.82	1.9	24.72	22.57
		64QAM	1/Inner right	21.44	1.9	23.34	21.19
		256QAM	1/Mid	19.52	1.9	21.42	19.27
10	668	$\pi/2$ BPSK	1/inner left	23.66	1.9	25.56	23.41
		QPSK	1/Inner right	23.84	1.9	25.74	23.59
		16QAM	1/Mid	22.58	1.9	24.48	22.33
		64QAM	1/edge right	21.56	1.9	23.46	21.31
		256QAM	1/edge left	19.24	1.9	21.14	18.99
	680.5	$\pi/2$ BPSK	1/inner left	23.69	1.9	25.59	23.44
		QPSK	1/inner left	24.03	1.9	25.93	23.78
		16QAM	1/Inner right	23.10	1.9	25.00	22.85
		64QAM	1/edge left	21.67	1.9	23.57	21.42
		256QAM	1/inner left	19.48	1.9	21.38	19.23
	693	$\pi/2$ BPSK	1/Mid	24.05	1.9	25.95	23.80
		QPSK	1/Mid	24.01	1.9	25.91	23.76
		16QAM	1/Mid	23.37	1.9	25.27	23.12
		64QAM	1/Inner right	21.72	1.9	23.62	21.47
		256QAM	1/Inner right	19.37	1.9	21.27	19.12

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
5	665.5	$\pi/2$ BPSK	1/inner left	23.80	1.9	25.70	23.55
		QPSK	1/inner left	23.75	1.9	25.65	23.50
		16QAM	1/inner left	22.98	1.9	24.88	22.73
		64QAM	1/edge right	21.37	1.9	23.27	21.12
		256QAM	1/edge left	19.42	1.9	21.32	19.17
	680.5	$\pi/2$ BPSK	1/Inner right	23.81	1.9	25.71	23.56
		QPSK	1/Inner right	23.78	1.9	25.68	23.53
		16QAM	1/inner left	22.81	1.9	24.71	22.56
		64QAM	1/inner left	21.54	1.9	23.44	21.29
		256QAM	1/Inner right	19.14	1.9	21.04	18.89
	695.5	$\pi/2$ BPSK	1/Mid	23.78	1.9	25.68	23.53
		QPSK	1/inner left	23.83	1.9	25.73	23.58
		16QAM	1/Inner right	23.34	1.9	25.24	23.09
		64QAM	1/Mid	21.42	1.9	23.32	21.17
		256QAM	1/Inner right	19.67	1.9	21.57	19.42

7.1.2. NR Band n12

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
15	706.5	$\pi/2$ BPSK	1/Mid	23.68	1.8	25.48	23.33
		QPSK	1/inner left	24.01	1.8	25.81	23.66
		16QAM	1/Mid	23.06	1.8	24.86	22.71
		64QAM	1/edge left	21.49	1.8	23.29	21.14
		256QAM	1/edge left	19.63	1.8	21.43	19.28
	708.5	$\pi/2$ BPSK	1/Mid	24.02	1.8	25.82	23.67
		QPSK	1/inner left	24.05	1.8	25.85	23.70
		16QAM	1/Mid	23.50	1.8	25.30	23.15
		64QAM	1/Inner right	21.79	1.8	23.59	21.44
		256QAM	1/edge left	20.11	1.8	21.91	19.76
10	704	$\pi/2$ BPSK	1/Mid	23.64	1.8	25.44	23.29
		QPSK	1/inner left	24.01	1.8	25.81	23.66
		16QAM	1/Mid	23.08	1.8	24.88	22.73
		64QAM	1/edge left	21.88	1.8	23.68	21.53
		256QAM	1/Inner right	19.19	1.8	20.99	18.84
	711	$\pi/2$ BPSK	1/Mid	23.82	1.8	25.62	23.47
		QPSK	1/Mid	23.69	1.8	25.49	23.34
		16QAM	1/Mid	23.04	1.8	24.84	22.69
		64QAM	1/inner left	21.34	1.8	23.14	20.99
		256QAM	1/Mid	19.35	1.8	21.15	19.00
5	701.5	$\pi/2$ BPSK	1/inner left	23.76	1.8	25.56	23.41
		QPSK	1/inner left	24.00	1.8	25.80	23.65
		16QAM	1/Inner right	22.89	1.8	24.69	22.54
		64QAM	1/Mid	21.39	1.8	23.19	21.04
		256QAM	1/edge right	19.41	1.8	21.21	19.06
	707.5	$\pi/2$ BPSK	1/inner left	23.63	1.8	25.43	23.28
		QPSK	1/Mid	24.01	1.8	25.81	23.66
		16QAM	1/inner left	22.75	1.8	24.55	22.40
		64QAM	1/Inner right	21.44	1.8	23.24	21.09
		256QAM	1/inner left	19.82	1.8	21.62	19.47
	713.5	$\pi/2$ BPSK	1/inner left	23.60	1.8	25.40	23.25
		QPSK	1/Mid	23.80	1.8	25.60	23.45
		16QAM	1/inner left	23.02	1.8	24.82	22.67
		64QAM	1/inner left	21.27	1.8	23.07	20.92
		256QAM	1/inner left	19.42	1.8	21.22	19.07

7.1.3. NR Band n13

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	782	$\pi/2$ BPSK	1/Inner right	23.50	0.1	23.60	21.45
		QPSK	1/inner left	23.43	0.1	23.53	21.38
		16QAM	1/inner left	22.63	0.1	22.73	20.58
		64QAM	1/edge left	21.24	0.1	21.34	19.19
		256QAM	1/inner left	19.32	0.1	19.42	17.27
5	779.5	$\pi/2$ BPSK	1/Mid	23.55	0.1	23.65	21.50
		QPSK	1/inner left	23.54	0.1	23.64	21.49
		16QAM	1/Mid	22.96	0.1	23.06	20.91
		64QAM	1/Inner right	21.63	0.1	21.73	19.58
		256QAM	1/Inner right	19.21	0.1	19.31	17.16
	782	$\pi/2$ BPSK	1/inner left	23.69	0.1	23.79	21.64
		QPSK	1/inner left	23.76	0.1	23.86	21.71
		16QAM	1/inner left	22.86	0.1	22.96	20.81
		64QAM	1/edge right	21.81	0.1	21.91	19.76
		256QAM	1/edge left	19.66	0.1	19.76	17.61
	784.5	$\pi/2$ BPSK	1/inner left	23.52	0.1	23.62	21.47
		QPSK	1/Inner right	23.76	0.1	23.86	21.71
		16QAM	1/Inner right	23.05	0.1	23.15	21.00
		64QAM	1/inner left	21.16	0.1	21.26	19.11
		256QAM	1/inner left	19.60	0.1	19.70	17.55

7.1.4. NR Band n14

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	793	$\pi/2$ BPSK	1/Mid	24.06	0	24.06	21.91
		QPSK	1/Inner right	24.23	0	24.23	22.08
		16QAM	1/Inner right	23.16	0	23.16	21.01
		64QAM	1/edge right	21.83	0	21.83	19.68
		256QAM	1/inner left	19.51	0	19.51	17.36
5	790.5	$\pi/2$ BPSK	1/Mid	23.67	0	23.67	21.52
		QPSK	1/inner left	23.81	0	23.81	21.66
		16QAM	1/inner left	23.06	0	23.06	20.91
		64QAM	1/edge left	21.67	0	21.67	19.52
		256QAM	1/edge left	19.39	0	19.39	17.24
	793	$\pi/2$ BPSK	1/inner left	23.76	0	23.76	21.61
		QPSK	1/Mid	23.75	0	23.75	21.60
		16QAM	1/inner left	23.35	0	23.35	21.20
		64QAM	1/edge left	21.75	0	21.75	19.60
		256QAM	1/edge right	19.37	0	19.37	17.22
	795.5	$\pi/2$ BPSK	1/Mid	23.92	0	23.92	21.77
		QPSK	1/inner left	23.96	0	23.96	21.81
		16QAM	1/Mid	23.55	0	23.55	21.40
		64QAM	1/Mid	21.65	0	21.65	19.50
		256QAM	1/Inner right	19.57	0	19.57	17.42

7.1.5. NR Band n26

External Antenna 1 814 ~ 824 MHz Band

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
10	819	$\pi/2$ BPSK	1/Mid	23.74	0.7	24.44	22.29
		QPSK	1/Inner right	23.67	0.7	24.37	22.22
		16QAM	1/Mid	22.86	0.7	23.56	21.41
		64QAM	1/Mid	21.21	0.7	21.91	19.76
		256QAM	1/Mid	19.47	0.7	20.17	18.02
5	816.5	$\pi/2$ BPSK	1/Inner right	23.73	0.7	24.43	22.28
		QPSK	1/Inner right	23.88	0.7	24.58	22.43
		16QAM	1/Inner right	22.69	0.7	23.39	21.24
		64QAM	1/Inner right	21.92	0.7	22.62	20.47
		256QAM	1/Inner right	19.49	0.7	20.19	18.04
	821.5	$\pi/2$ BPSK	1/Mid	23.62	0.7	24.32	22.17
		QPSK	1/Mid	23.67	0.7	24.37	22.22
		16QAM	1/Mid	23.02	0.7	23.72	21.57
		64QAM	1/inner left	21.77	0.7	22.47	20.32
		256QAM	1/Inner right	19.61	0.7	20.31	18.16

824 ~ 849 MHz Band

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	834	$\pi/2$ BPSK	1/Inner right	23.67	0.7	24.37	22.22
		QPSK	1/Inner right	23.86	0.7	24.56	22.41
		16QAM	1/inner left	23.32	0.7	24.02	21.87
		64QAM	1/Inner right	21.87	0.7	22.57	20.42
		256QAM	1/edge left	19.58	0.7	20.28	18.13
	836.5	$\pi/2$ BPSK	1/inner left	23.74	0.7	24.44	22.29
		QPSK	1/inner left	23.85	0.7	24.55	22.40
		16QAM	1/Inner right	23.40	0.7	24.10	21.95
		64QAM	1/edge right	21.59	0.7	22.29	20.14
		256QAM	1/edge left	19.73	0.7	20.43	18.28
	839	$\pi/2$ BPSK	1/Mid	23.67	0.7	24.37	22.22
		QPSK	1/inner left	23.75	0.7	24.45	22.30
		16QAM	1/inner left	23.00	0.7	23.70	21.55
		64QAM	1/edge right	21.59	0.7	22.29	20.14
		256QAM	1/Inner right	19.63	0.7	20.33	18.18
15	831.5	$\pi/2$ BPSK	1/inner left	23.81	0.7	24.51	22.36
		QPSK	1/Mid	24.06	0.7	24.76	22.61
		16QAM	1/inner left	23.34	0.7	24.04	21.89
		64QAM	1/Mid	21.60	0.7	22.30	20.15
		256QAM	1/edge left	19.69	0.7	20.39	18.24
	836.5	$\pi/2$ BPSK	1/Mid	24.00	0.7	24.70	22.55
		QPSK	1/Inner right	23.95	0.7	24.65	22.50
		16QAM	1/Inner right	23.17	0.7	23.87	21.72
		64QAM	1/edge right	21.80	0.7	22.50	20.35
		256QAM	1/edge right	20.04	0.7	20.74	18.59
	841.5	$\pi/2$ BPSK	1/inner left	23.88	0.7	24.58	22.43
		QPSK	1/Inner right	23.89	0.7	24.59	22.44
		16QAM	1/Inner right	22.96	0.7	23.66	21.51
		64QAM	1/Mid	21.75	0.7	22.45	20.30
		256QAM	1/Mid	19.79	0.7	20.49	18.34
10	829	$\pi/2$ BPSK	1/Inner right	23.48	0.7	24.18	22.03
		QPSK	1/inner left	23.67	0.7	24.37	22.22
		16QAM	1/Inner right	22.59	0.7	23.29	21.14
		64QAM	1/edge right	21.22	0.7	21.92	19.77
		256QAM	1/Mid	19.41	0.7	20.11	17.96
	836.5	$\pi/2$ BPSK	1/Inner right	23.74	0.7	24.44	22.29
		QPSK	1/Mid	23.88	0.7	24.58	22.43
		16QAM	1/Inner right	23.02	0.7	23.72	21.57
		64QAM	1/edge right	21.83	0.7	22.53	20.38
		256QAM	1/edge left	19.48	0.7	20.18	18.03
	844	$\pi/2$ BPSK	1/Mid	24.02	0.7	24.72	22.57
		QPSK	1/Inner right	24.39	0.7	25.09	22.94
		16QAM	1/Inner right	23.26	0.7	23.96	21.81
		64QAM	1/Mid	22.10	0.7	22.80	20.65
		256QAM	1/edge left	19.64	0.7	20.34	18.19

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
5	826.5	$\pi/2$ BPSK	1/Mid	23.69	0.7	24.39	22.24
		QPSK	1/inner left	23.73	0.7	24.43	22.28
		16QAM	1/Mid	23.15	0.7	23.85	21.70
		64QAM	1/Inner right	21.40	0.7	22.10	19.95
		256QAM	1/inner left	19.62	0.7	20.32	18.17
	836.5	$\pi/2$ BPSK	1/Inner right	23.89	0.7	24.59	22.44
		QPSK	1/inner left	23.82	0.7	24.52	22.37
		16QAM	1/inner left	23.29	0.7	23.99	21.84
		64QAM	1/edge right	21.44	0.7	22.14	19.99
		256QAM	1/edge left	19.83	0.7	20.53	18.38
	846.5	$\pi/2$ BPSK	1/Mid	23.83	0.7	24.53	22.38
		QPSK	1/Mid	23.87	0.7	24.57	22.42
		16QAM	1/inner left	23.16	0.7	23.86	21.71
		64QAM	1/edge right	21.63	0.7	22.33	20.18
		256QAM	1/edge right	19.54	0.7	20.24	18.09

7.1.6. NR Band n5

External Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	ERP (dBm)
20	834	$\pi/2$ BPSK	1/Inner right	23.86	0.7	24.56	22.41
		QPSK	1/Inner right	23.92	0.7	24.62	22.47
		16QAM	1/Inner right	23.15	0.7	23.85	21.70
		64QAM	1/edge left	21.63	0.7	22.33	20.18
		256QAM	1/edge right	19.75	0.7	20.45	18.30
	839	$\pi/2$ BPSK	1/Mid	23.94	0.7	24.64	22.49
		QPSK	1/Inner right	23.94	0.7	24.64	22.49
		16QAM	1/Mid	22.93	0.7	23.63	21.48
		64QAM	1/Mid	21.64	0.7	22.34	20.19
		256QAM	1/Mid	19.67	0.7	20.37	18.22
15	831.5	$\pi/2$ BPSK	1/Inner right	23.73	0.7	24.43	22.28
		QPSK	1/Inner right	23.97	0.7	24.67	22.52
		16QAM	1/inner left	23.25	0.7	23.95	21.80
		64QAM	1/Inner right	21.73	0.7	22.43	20.28
		256QAM	1/edge left	20.08	0.7	20.78	18.63
	841.5	$\pi/2$ BPSK	1/Mid	23.93	0.7	24.63	22.48
		QPSK	1/Mid	23.90	0.7	24.60	22.45
		16QAM	1/Mid	23.20	0.7	23.90	21.75
		64QAM	1/edge right	21.63	0.7	22.33	20.18
		256QAM	1/Inner right	19.57	0.7	20.27	18.12
10	829	$\pi/2$ BPSK	1/inner left	23.91	0.7	24.61	22.46
		QPSK	1/Inner right	23.61	0.7	24.31	22.16
		16QAM	1/inner left	22.85	0.7	23.55	21.40
		64QAM	1/inner left	21.87	0.7	22.57	20.42
		256QAM	1/edge left	19.58	0.7	20.28	18.13
	836.5	$\pi/2$ BPSK	1/Inner right	23.67	0.7	24.37	22.22
		QPSK	1/inner left	23.94	0.7	24.64	22.49
		16QAM	1/Inner right	23.29	0.7	23.99	21.84
		64QAM	1/Inner right	21.80	0.7	22.50	20.35
		256QAM	1/Inner right	19.37	0.7	20.07	17.92
	844	$\pi/2$ BPSK	1/Inner right	23.79	0.7	24.49	22.34
		QPSK	1/Mid	23.93	0.7	24.63	22.48
		16QAM	1/inner left	23.19	0.7	23.89	21.74
		64QAM	1/Mid	21.95	0.7	22.65	20.50
		256QAM	1/inner left	20.09	0.7	20.79	18.64
5	826.5	$\pi/2$ BPSK	1/inner left	23.85	0.7	24.55	22.40
		QPSK	1/inner left	23.79	0.7	24.49	22.34
		16QAM	1/Mid	22.99	0.7	23.69	21.54
		64QAM	1/inner left	21.67	0.7	22.37	20.22
		256QAM	1/Mid	19.48	0.7	20.18	18.03
	836.5	$\pi/2$ BPSK	1/Mid	23.71	0.7	24.41	22.26
		QPSK	1/Inner right	23.81	0.7	24.51	22.36
		16QAM	1/Inner right	23.24	0.7	23.94	21.79
		64QAM	1/edge left	21.22	0.7	21.92	19.77
		256QAM	1/edge right	19.77	0.7	20.47	18.32
	846.5	$\pi/2$ BPSK	1/Inner right	23.73	0.7	24.43	22.28
		QPSK	1/inner left	24.04	0.7	24.74	22.59
		16QAM	1/Inner right	23.30	0.7	24.00	21.85
		64QAM	1/edge left	21.81	0.7	22.51	20.36
		256QAM	1/edge left	19.43	0.7	20.13	17.98

7.1.7. NR Band n70

Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	1 702.5	$\pi/2$ BPSK	1/Inner right	21.86	1.6	23.46
		QPSK	1/Mid	22.15	1.6	23.75
		16QAM	1/Inner right	21.28	1.6	22.88
		64QAM	1/Inner right	19.64	1.6	21.24
		256QAM	1/edge right	17.85	1.6	19.45
10	1 700	$\pi/2$ BPSK	1/Mid	22.15	1.6	23.75
		QPSK	1/Mid	22.35	1.6	23.95
		16QAM	1/Mid	21.45	1.6	23.05
		64QAM	1/Mid	20.00	1.6	21.60
		256QAM	1/edge right	17.47	1.6	19.07
	1 702.5	$\pi/2$ BPSK	1/Mid	21.87	1.6	23.47
		QPSK	1/Mid	22.16	1.6	23.76
		16QAM	1/Inner right	21.30	1.6	22.90
		64QAM	1/Inner right	19.65	1.6	21.25
		256QAM	1/edge right	17.78	1.6	19.38
	1 705	$\pi/2$ BPSK	1/Inner right	22.00	1.6	23.60
		QPSK	1/Inner right	22.04	1.6	23.64
		16QAM	1/Inner right	21.40	1.6	23.00
		64QAM	1/inner left	19.87	1.6	21.47
		256QAM	1/edge right	18.12	1.6	19.72
5	1 697.5	$\pi/2$ BPSK	1/Inner right	21.97	1.6	23.57
		QPSK	1/Inner right	21.89	1.6	23.49
		16QAM	1/Inner right	21.13	1.6	22.73
		64QAM	1/Inner right	19.79	1.6	21.39
		256QAM	1/edge left	17.54	1.6	19.14
	1 702.5	$\pi/2$ BPSK	1/Inner right	21.84	1.6	23.44
		QPSK	1/Mid	21.90	1.6	23.50
		16QAM	1/Mid	21.21	1.6	22.81
		64QAM	1/inner left	19.81	1.6	21.41
		256QAM	1/Mid	18.06	1.6	19.66
	1 707.5	$\pi/2$ BPSK	1/Inner right	21.83	1.6	23.43
		QPSK	1/Mid	21.75	1.6	23.35
		16QAM	1/Inner right	21.13	1.6	22.73
		64QAM	1/edge right	19.48	1.6	21.08
		256QAM	1/Mid	17.44	1.6	19.04

7.1.8. NR Band n66

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	1 730	$\pi/2$ BPSK	1/Inner right	22.33	2.6	24.93
		QPSK	1/Mid	22.51	2.6	25.11
		16QAM	1/Mid	21.95	2.6	24.55
		64QAM	1/inner left	20.24	2.6	22.84
		256QAM	1/edge right	18.29	2.6	20.89
	1 760	$\pi/2$ BPSK	1/inner left	22.39	2.6	24.99
		QPSK	1/inner left	22.56	2.6	25.16
		16QAM	1/Mid	21.89	2.6	24.49
		64QAM	1/Inner right	20.29	2.6	22.89
		256QAM	1/inner left	18.50	2.6	21.10
30	1 725	$\pi/2$ BPSK	1/Inner right	22.41	2.6	25.01
		QPSK	1/inner left	22.46	2.6	25.06
		16QAM	1/Inner right	21.53	2.6	24.13
		64QAM	1/edge right	20.37	2.6	22.97
		256QAM	1/Mid	18.22	2.6	20.82
	1 745	$\pi/2$ BPSK	1/Mid	22.41	2.6	25.01
		QPSK	1/Mid	22.39	2.6	24.99
		16QAM	1/inner left	21.94	2.6	24.54
		64QAM	1/inner left	20.32	2.6	22.92
		256QAM	1/inner left	18.15	2.6	20.75
	1 765	$\pi/2$ BPSK	1/inner left	22.43	2.6	25.03
		QPSK	1/inner left	22.45	2.6	25.05
		16QAM	1/inner left	21.74	2.6	24.34
		64QAM	1/Inner right	20.19	2.6	22.79
		256QAM	1/Inner right	18.10	2.6	20.70
20	1 720	$\pi/2$ BPSK	1/Mid	22.47	2.6	25.07
		QPSK	1/inner left	22.44	2.6	25.04
		16QAM	1/Mid	22.01	2.6	24.61
		64QAM	1/edge left	20.00	2.6	22.60
		256QAM	1/edge left	18.20	2.6	20.80
	1 745	$\pi/2$ BPSK	1/Inner right	22.44	2.6	25.04
		QPSK	1/inner left	22.53	2.6	25.13
		16QAM	1/inner left	21.65	2.6	24.25
		64QAM	1/Inner right	20.42	2.6	23.02
		256QAM	1/edge left	18.49	2.6	21.09
	1 770	$\pi/2$ BPSK	1/Inner right	22.28	2.6	24.88
		QPSK	1/Mid	22.41	2.6	25.01
		16QAM	1/Mid	21.80	2.6	24.40
		64QAM	1/inner left	20.11	2.6	22.71
		256QAM	1/edge left	18.44	2.6	21.04

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	1 717.5	$\pi/2$ BPSK	1/Inner right	22.47	2.6	25.07
		QPSK	1/Inner right	22.74	2.6	25.34
		16QAM	1/inner left	21.80	2.6	24.40
		64QAM	1/edge left	20.04	2.6	22.64
		256QAM	1/Mid	18.62	2.6	21.22
	1 745	$\pi/2$ BPSK	1/Inner right	22.69	2.6	25.29
		QPSK	1/Mid	22.72	2.6	25.32
		16QAM	1/inner left	22.32	2.6	24.92
		64QAM	1/inner left	20.57	2.6	23.17
		256QAM	1/edge right	18.72	2.6	21.32
	1 772.5	$\pi/2$ BPSK	1/inner left	22.53	2.6	25.13
		QPSK	1/inner left	22.31	2.6	24.91
		16QAM	1/inner left	22.02	2.6	24.62
		64QAM	1/Inner right	20.41	2.6	23.01
		256QAM	1/edge left	18.45	2.6	21.05
10	1 715	$\pi/2$ BPSK	1/Inner right	22.43	2.6	25.03
		QPSK	1/Mid	22.39	2.6	24.99
		16QAM	1/inner left	21.65	2.6	24.25
		64QAM	1/inner left	20.25	2.6	22.85
		256QAM	1/inner left	18.27	2.6	20.87
	1 745	$\pi/2$ BPSK	1/Mid	22.36	2.6	24.96
		QPSK	1/Mid	22.75	2.6	25.35
		16QAM	1/inner left	21.48	2.6	24.08
		64QAM	1/edge right	19.88	2.6	22.48
		256QAM	1/edge left	17.93	2.6	20.53
	1 775	$\pi/2$ BPSK	1/inner left	22.15	2.6	24.75
		QPSK	1/inner left	22.06	2.6	24.66
		16QAM	1/Mid	21.49	2.6	24.09
		64QAM	1/Inner right	20.04	2.6	22.64
		256QAM	1/Mid	18.09	2.6	20.69
5	1 712.5	$\pi/2$ BPSK	1/Inner right	22.27	2.6	24.87
		QPSK	1/Mid	22.28	2.6	24.88
		16QAM	1/inner left	21.54	2.6	24.14
		64QAM	1/edge right	20.25	2.6	22.85
		256QAM	1/Inner right	18.20	2.6	20.80
	1 745	$\pi/2$ BPSK	1/inner left	22.34	2.6	24.94
		QPSK	1/Mid	22.55	2.6	25.15
		16QAM	1/inner left	22.03	2.6	24.63
		64QAM	1/inner left	20.18	2.6	22.78
		256QAM	1/edge left	18.54	2.6	21.14
	1 777.5	$\pi/2$ BPSK	1/Mid	22.12	2.6	24.72
		QPSK	1/inner left	22.44	2.6	25.04
		16QAM	1/Mid	21.39	2.6	23.99
		64QAM	1/Inner right	19.85	2.6	22.45
		256QAM	1/inner left	18.35	2.6	20.95

7.1.9. NR Band n2

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	1 860	$\pi/2$ BPSK	1/Inner right	23.27	4.4	27.67
		QPSK	1/Inner right	23.36	4.4	27.76
		16QAM	1/Mid	22.55	4.4	26.95
		64QAM	1/edge left	21.40	4.4	25.80
		256QAM	1/Mid	19.10	4.4	23.50
	1 880	$\pi/2$ BPSK	1/inner left	23.25	4.4	27.65
		QPSK	1/inner left	23.37	4.4	27.77
		16QAM	1/Mid	22.66	4.4	27.06
		64QAM	1/Mid	21.05	4.4	25.45
		256QAM	1/Inner right	19.03	4.4	23.43
	1 900	$\pi/2$ BPSK	1/inner left	23.09	4.4	27.49
		QPSK	1/Inner right	23.30	4.4	27.70
		16QAM	1/Inner right	22.31	4.4	26.71
		64QAM	1/edge left	21.16	4.4	25.56
		256QAM	1/Inner right	19.23	4.4	23.63
15	1 857.5	$\pi/2$ BPSK	1/Mid	23.26	4.4	27.66
		QPSK	1/Inner right	23.25	4.4	27.65
		16QAM	1/inner left	22.75	4.4	27.15
		64QAM	1/inner left	20.93	4.4	25.33
		256QAM	1/inner left	19.00	4.4	23.40
	1 880	$\pi/2$ BPSK	1/inner left	23.56	4.4	27.96
		QPSK	1/Mid	23.37	4.4	27.77
		16QAM	1/inner left	22.60	4.4	27.00
		64QAM	1/inner left	21.17	4.4	25.57
		256QAM	1/Mid	19.00	4.4	23.40
	1 902.5	$\pi/2$ BPSK	1/inner left	23.18	4.4	27.58
		QPSK	1/inner left	23.04	4.4	27.44
		16QAM	1/Mid	22.53	4.4	26.93
		64QAM	1/edge right	20.80	4.4	25.20
		256QAM	1/Inner right	18.82	4.4	23.22
10	1 855	$\pi/2$ BPSK	1/inner left	23.25	4.4	27.65
		QPSK	1/Mid	23.13	4.4	27.53
		16QAM	1/Mid	22.25	4.4	26.65
		64QAM	1/edge left	20.90	4.4	25.30
		256QAM	1/Inner right	18.97	4.4	23.37
	1 880	$\pi/2$ BPSK	1/Mid	23.09	4.4	27.49
		QPSK	1/Mid	23.00	4.4	27.40
		16QAM	1/Inner right	22.62	4.4	27.02
		64QAM	1/inner left	20.84	4.4	25.24
		256QAM	1/Inner right	18.79	4.4	23.19
	1 905	$\pi/2$ BPSK	1/inner left	22.97	4.4	27.37
		QPSK	1/Mid	23.32	4.4	27.72
		16QAM	1/Mid	22.14	4.4	26.54
		64QAM	1/inner left	20.83	4.4	25.23
		256QAM	1/inner left	18.70	4.4	23.10

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	1 852.5	$\pi/2$ BPSK	1/inner left	23.11	4.4	27.51
		QPSK	1/inner left	23.27	4.4	27.67
		16QAM	1/inner left	22.03	4.4	26.43
		64QAM	1/edge left	20.74	4.4	25.14
		256QAM	1/edge left	19.10	4.4	23.50
	1 880	$\pi/2$ BPSK	1/inner left	23.25	4.4	27.65
		QPSK	1/inner left	23.22	4.4	27.62
		16QAM	1/Mid	22.40	4.4	26.80
		64QAM	1/edge left	20.94	4.4	25.34
		256QAM	1/inner left	19.38	4.4	23.78
	1 907.5	$\pi/2$ BPSK	1/inner left	23.05	4.4	27.45
		QPSK	1/Inner right	22.90	4.4	27.30
		16QAM	1/inner left	22.07	4.4	26.47
		64QAM	1/Inner right	20.77	4.4	25.17
		256QAM	1/edge left	18.88	4.4	23.28

7.1.10. NR Band n25

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	1 870	$\pi/2$ BPSK	1/Mid	22.44	4.4	26.84
		QPSK	1/Mid	22.37	4.4	26.77
		16QAM	1/Inner right	21.76	4.4	26.16
		64QAM	1/edge right	20.23	4.4	24.63
		256QAM	1/Inner right	18.06	4.4	22.46
	1 882.5	$\pi/2$ BPSK	1/inner left	22.30	4.4	26.70
		QPSK	1/Mid	22.60	4.4	27.00
		16QAM	1/Mid	21.50	4.4	25.90
		64QAM	1/edge left	20.44	4.4	24.84
		256QAM	1/inner left	18.28	4.4	22.68
	1 895	$\pi/2$ BPSK	1/inner left	22.42	4.4	26.82
		QPSK	1/inner left	22.20	4.4	26.60
		16QAM	1/Mid	21.78	4.4	26.18
		64QAM	1/edge left	20.18	4.4	24.58
		256QAM	1/Inner right	18.09	4.4	22.49
30	1 865	$\pi/2$ BPSK	1/Inner right	22.48	4.4	26.88
		QPSK	1/inner left	22.49	4.4	26.89
		16QAM	1/inner left	21.73	4.4	26.13
		64QAM	1/Mid	20.23	4.4	24.63
		256QAM	1/inner left	18.20	4.4	22.60
	1 882.5	$\pi/2$ BPSK	1/inner left	22.32	4.4	26.72
		QPSK	1/inner left	22.38	4.4	26.78
		16QAM	1/inner left	21.67	4.4	26.07
		64QAM	1/edge right	20.18	4.4	24.58
		256QAM	1/inner left	18.22	4.4	22.62
	1 900	$\pi/2$ BPSK	1/Mid	22.33	4.4	26.73
		QPSK	1/inner left	22.36	4.4	26.76
		16QAM	1/inner left	21.38	4.4	25.78
		64QAM	1/edge left	19.93	4.4	24.33
		256QAM	1/edge left	18.15	4.4	22.55
25	1 862.5	$\pi/2$ BPSK	1/inner left	22.42	4.4	26.82
		QPSK	1/Mid	22.42	4.4	26.82
		16QAM	1/Inner right	21.58	4.4	25.98
		64QAM	1/inner left	20.34	4.4	24.74
		256QAM	1/inner left	18.18	4.4	22.58
	1 882.5	$\pi/2$ BPSK	1/inner left	22.42	4.4	26.82
		QPSK	1/inner left	22.47	4.4	26.87
		16QAM	1/inner left	21.63	4.4	26.03
		64QAM	1/edge left	20.55	4.4	24.95
		256QAM	1/Inner right	18.29	4.4	22.69
	1 902.5	$\pi/2$ BPSK	1/inner left	22.46	4.4	26.86
		QPSK	1/inner left	22.42	4.4	26.82
		16QAM	1/inner left	21.54	4.4	25.94
		64QAM	1/inner left	20.28	4.4	24.68
		256QAM	1/inner left	18.29	4.4	22.69

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	1 860	$\pi/2$ BPSK	1/Mid	22.33	4.4	26.73
		QPSK	1/Inner right	22.47	4.4	26.87
		16QAM	1/Inner right	21.74	4.4	26.14
		64QAM	1/edge left	20.30	4.4	24.70
		256QAM	1/Inner right	18.33	4.4	22.73
	1 882.5	$\pi/2$ BPSK	1/Mid	22.65	4.4	27.05
		QPSK	1/Mid	22.75	4.4	27.15
		16QAM	1/Inner right	21.62	4.4	26.02
		64QAM	1/Inner right	20.46	4.4	24.86
		256QAM	1/edge right	18.17	4.4	22.57
	1 905	$\pi/2$ BPSK	1/inner left	22.29	4.4	26.69
		QPSK	1/inner left	22.33	4.4	26.73
		16QAM	1/Mid	21.48	4.4	25.88
		64QAM	1/edge left	20.26	4.4	24.66
		256QAM	1/inner left	18.07	4.4	22.47
15	1 857.5	$\pi/2$ BPSK	1/Inner right	22.58	4.4	26.98
		QPSK	1/inner left	22.43	4.4	26.83
		16QAM	1/Inner right	22.03	4.4	26.43
		64QAM	1/edge right	20.54	4.4	24.94
		256QAM	1/Inner right	18.47	4.4	22.87
	1 882.5	$\pi/2$ BPSK	1/Mid	22.45	4.4	26.85
		QPSK	1/Mid	22.43	4.4	26.83
		16QAM	1/Inner right	21.54	4.4	25.94
		64QAM	1/Inner right	20.36	4.4	24.76
		256QAM	1/inner left	18.36	4.4	22.76
	1 907.5	$\pi/2$ BPSK	1/inner left	22.16	4.4	26.56
		QPSK	1/inner left	22.32	4.4	26.72
		16QAM	1/inner left	21.65	4.4	26.05
		64QAM	1/edge right	20.29	4.4	24.69
		256QAM	1/Mid	17.90	4.4	22.30
10	1 855	$\pi/2$ BPSK	1/Inner right	22.23	4.4	26.63
		QPSK	1/Mid	22.50	4.4	26.90
		16QAM	1/Inner right	21.46	4.4	25.86
		64QAM	1/inner left	20.24	4.4	24.64
		256QAM	1/Mid	17.88	4.4	22.28
	1 882.5	$\pi/2$ BPSK	1/Mid	22.56	4.4	26.96
		QPSK	1/inner left	22.32	4.4	26.72
		16QAM	1/Mid	21.87	4.4	26.27
		64QAM	1/edge left	20.28	4.4	24.68
		256QAM	1/edge left	18.06	4.4	22.46
	1 910	$\pi/2$ BPSK	1/Mid	22.03	4.4	26.43
		QPSK	1/Mid	22.31	4.4	26.71
		16QAM	1/Mid	21.36	4.4	25.76
		64QAM	1/edge right	19.79	4.4	24.19
		256QAM	1/edge right	17.79	4.4	22.19

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	1 852.5	$\pi/2$ BPSK	1/inner left	22.31	4.4	26.71
		QPSK	1/inner left	22.13	4.4	26.53
		16QAM	1/inner left	21.60	4.4	26.00
		64QAM	1/Mid	20.01	4.4	24.41
		256QAM	1/inner left	17.98	4.4	22.38
	1 882.5	$\pi/2$ BPSK	1/inner left	22.49	4.4	26.89
		QPSK	1/Mid	22.64	4.4	27.04
		16QAM	1/Mid	21.78	4.4	26.18
		64QAM	1/Mid	20.01	4.4	24.41
		256QAM	1/Inner right	18.44	4.4	22.84
	1 912.5	$\pi/2$ BPSK	1/Mid	22.01	4.4	26.41
		QPSK	1/Inner right	22.11	4.4	26.51
		16QAM	1/Inner right	21.10	4.4	25.50
		64QAM	1/Inner right	19.68	4.4	24.08
		256QAM	1/edge left	18.03	4.4	22.43

7.1.11. NR Band n30

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm/5MHz)	Antenna Gain(dBi)	EIRP (dBm/5MHz)
10	2 310	$\pi/2$ BPSK	1/Mid	17.74	2.4	20.14
		QPSK	1/Mid	17.94	2.4	20.34
		16QAM	1/inner left	16.99	2.4	19.39
		64QAM	1/edge left	15.54	2.4	17.94
		256QAM	1/Mid	13.47	2.4	15.87
5	2 307.5	$\pi/2$ BPSK	1/Mid	17.85	2.4	20.25
		QPSK	1/Mid	17.85	2.4	20.25
		16QAM	1/Mid	17.18	2.4	19.58
		64QAM	1/Mid	15.58	2.4	17.98
		256QAM	1/edge left	13.55	2.4	15.95
	2 310	$\pi/2$ BPSK	1/Mid	17.76	2.4	20.16
		QPSK	1/Mid	17.72	2.4	20.12
		16QAM	1/Mid	17.02	2.4	19.42
		64QAM	1/edge left	15.68	2.4	18.08
		256QAM	1/edge left	13.90	2.4	16.30
	2 312.5	$\pi/2$ BPSK	1/inner left	17.73	2.4	20.13
		QPSK	1/Mid	17.82	2.4	20.22
		16QAM	1/Mid	17.10	2.4	19.50
		64QAM	1/inner left	15.60	2.4	18.00
		256QAM	1/Mid	13.70	2.4	16.10

7.1.12. NR Band n7

Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 520	$\pi/2$ BPSK	1/Inner right	22.53	3.7	26.23
		QPSK	1/Inner right	22.66	3.7	26.36
		16QAM	1/Inner right	21.55	3.7	25.25
		64QAM	1/Inner right	20.17	3.7	23.87
		256QAM	1/edge right	18.32	3.7	22.02
	2 535	$\pi/2$ BPSK	1/Inner right	22.60	3.7	26.30
		QPSK	1/Inner right	22.73	3.7	26.43
		16QAM	1/Mid	21.78	3.7	25.48
		64QAM	1/Inner right	20.42	3.7	24.12
		256QAM	1/Inner right	18.39	3.7	22.09
	2 550	$\pi/2$ BPSK	1/Inner right	22.67	3.7	26.37
		QPSK	1/Inner right	22.76	3.7	26.46
		16QAM	1/Inner right	21.92	3.7	25.62
		64QAM	1/Inner right	20.59	3.7	24.29
		256QAM	1/Inner right	18.66	3.7	22.36
30	2 515	$\pi/2$ BPSK	1/Inner right	22.58	3.7	26.28
		QPSK	1/Mid	22.58	3.7	26.28
		16QAM	1/inner left	21.69	3.7	25.39
		64QAM	1/Mid	20.40	3.7	24.10
		256QAM	1/inner left	18.26	3.7	21.96
	2 535	$\pi/2$ BPSK	1/Inner right	22.55	3.7	26.25
		QPSK	1/Inner right	22.51	3.7	26.21
		16QAM	1/Inner right	21.73	3.7	25.43
		64QAM	1/Inner right	20.49	3.7	24.19
		256QAM	1/Inner right	18.29	3.7	21.99
	2 555	$\pi/2$ BPSK	1/Inner right	22.71	3.7	26.41
		QPSK	1/Inner right	22.75	3.7	26.45
		16QAM	1/Inner right	21.93	3.7	25.63
		64QAM	1/Mid	20.23	3.7	23.93
		256QAM	1/edge right	18.47	3.7	22.17
25	2 512.5	$\pi/2$ BPSK	1/Inner right	22.53	3.7	26.23
		QPSK	1/inner left	22.57	3.7	26.27
		16QAM	1/Mid	21.87	3.7	25.57
		64QAM	1/inner left	20.28	3.7	23.98
		256QAM	1/inner left	18.41	3.7	22.11
	2 535	$\pi/2$ BPSK	1/Inner right	22.54	3.7	26.24
		QPSK	1/Inner right	22.47	3.7	26.17
		16QAM	1/Inner right	21.55	3.7	25.25
		64QAM	1/edge right	20.26	3.7	23.96
		256QAM	1/inner left	18.14	3.7	21.84
	2 557.5	$\pi/2$ BPSK	1/Inner right	22.71	3.7	26.41
		QPSK	1/Inner right	22.72	3.7	26.42
		16QAM	1/Inner right	21.89	3.7	25.59
		64QAM	1/edge left	20.29	3.7	23.99
		256QAM	1/Inner right	18.78	3.7	22.48

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
20	2 510	$\pi/2$ BPSK	1/Mid	22.43	3.7	26.13
		QPSK	1/Inner right	22.59	3.7	26.29
		16QAM	1/Mid	21.78	3.7	25.48
		64QAM	1/edge left	20.32	3.7	24.02
		256QAM	1/Inner right	18.43	3.7	22.13
	2 535	$\pi/2$ BPSK	1/Inner right	22.40	3.7	26.10
		QPSK	1/Mid	22.49	3.7	26.19
		16QAM	1/Inner right	21.61	3.7	25.31
		64QAM	1/edge right	20.26	3.7	23.96
		256QAM	1/inner left	18.37	3.7	22.07
	2 560	$\pi/2$ BPSK	1/Mid	22.86	3.7	26.56
		QPSK	1/Mid	22.82	3.7	26.52
		16QAM	1/inner left	21.77	3.7	25.47
		64QAM	1/Inner right	20.31	3.7	24.01
		256QAM	1/Mid	18.52	3.7	22.22
15	2 507.5	$\pi/2$ BPSK	1/Inner right	22.69	3.7	26.39
		QPSK	1/Inner right	22.57	3.7	26.27
		16QAM	1/Mid	21.83	3.7	25.53
		64QAM	1/edge right	20.12	3.7	23.82
		256QAM	1/Mid	18.67	3.7	22.37
	2 535	$\pi/2$ BPSK	1/Inner right	22.60	3.7	26.30
		QPSK	1/inner left	22.39	3.7	26.09
		16QAM	1/Inner right	21.99	3.7	25.69
		64QAM	1/Inner right	20.23	3.7	23.93
		256QAM	1/edge left	18.47	3.7	22.17
	2 562.5	$\pi/2$ BPSK	1/Mid	22.62	3.7	26.32
		QPSK	1/Mid	22.77	3.7	26.47
		16QAM	1/inner left	21.78	3.7	25.48
		64QAM	1/edge right	20.21	3.7	23.91
		256QAM	1/edge right	18.26	3.7	21.96
10	2 505	$\pi/2$ BPSK	1/Mid	22.12	3.7	25.82
		QPSK	1/Inner right	22.18	3.7	25.88
		16QAM	1/Inner right	21.60	3.7	25.30
		64QAM	1/Inner right	20.19	3.7	23.89
		256QAM	1/Inner right	18.04	3.7	21.74
	2 535	$\pi/2$ BPSK	1/Inner right	22.20	3.7	25.90
		QPSK	1/inner left	22.38	3.7	26.08
		16QAM	1/inner left	21.98	3.7	25.68
		64QAM	1/edge right	20.30	3.7	24.00
		256QAM	1/inner left	18.18	3.7	21.88
	2 565	$\pi/2$ BPSK	1/Inner right	22.73	3.7	26.43
		QPSK	1/Inner right	22.89	3.7	26.59
		16QAM	1/Mid	22.05	3.7	25.75
		64QAM	1/Inner right	20.42	3.7	24.12
		256QAM	1/edge right	18.72	3.7	22.42

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
5	2 502.5	$\pi/2$ BPSK	1/Inner right	22.34	3.7	26.04
		QPSK	1/Mid	22.40	3.7	26.10
		16QAM	1/Inner right	21.56	3.7	25.26
		64QAM	1/edge left	20.18	3.7	23.88
		256QAM	1/inner left	18.19	3.7	21.89
	2 535	$\pi/2$ BPSK	1/Mid	22.27	3.7	25.97
		QPSK	1/inner left	22.26	3.7	25.96
		16QAM	1/Inner right	21.78	3.7	25.48
		64QAM	1/edge right	19.93	3.7	23.63
		256QAM	1/edge right	18.08	3.7	21.78
	2 567.5	$\pi/2$ BPSK	1/Inner right	22.62	3.7	26.32
		QPSK	1/inner left	22.43	3.7	26.13
		16QAM	1/inner left	22.01	3.7	25.71
		64QAM	1/Mid	20.32	3.7	24.02
		256QAM	1/Inner right	18.48	3.7	22.18

7.1.13. NR Band n41

SISO: Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	2 546.01	$\pi/2$ BPSK	1/Inner right	24.77	3.7	28.47
		QPSK	1/Inner right	24.72	3.7	28.42
		16QAM	1/Inner right	23.74	3.7	27.44
		64QAM	1/Inner right	22.26	3.7	25.96
		256QAM	1/Inner right	20.25	3.7	23.95
	2 592.99	$\pi/2$ BPSK	1/Inner right	24.68	3.7	28.38
		QPSK	1/Mid	24.60	3.7	28.30
		16QAM	1/Inner right	23.64	3.7	27.34
		64QAM	1/Inner right	22.19	3.7	25.89
		256QAM	1/Mid	20.22	3.7	23.92
	2 640.00	$\pi/2$ BPSK	1/Inner right	24.79	3.7	28.49
		QPSK	1/Mid	24.75	3.7	28.45
		16QAM	1/Mid	23.67	3.7	27.37
		64QAM	1/Mid	22.40	3.7	26.10
		256QAM	1/Inner right	20.39	3.7	24.09
90	2 541.00	$\pi/2$ BPSK	1/Inner right	24.66	3.7	28.36
		QPSK	1/Inner right	24.70	3.7	28.40
		16QAM	1/Inner right	23.66	3.7	27.36
		64QAM	1/Inner right	22.07	3.7	25.77
		256QAM	1/Inner right	20.22	3.7	23.92
	2 592.99	$\pi/2$ BPSK	1/Inner right	24.69	3.7	28.39
		QPSK	1/Inner right	24.76	3.7	28.46
		16QAM	1/Inner right	23.79	3.7	27.49
		64QAM	1/Inner right	22.53	3.7	26.23
		256QAM	1/Inner right	20.27	3.7	23.97
	2 644.98	$\pi/2$ BPSK	1/Mid	24.79	3.7	28.49
		QPSK	1/Inner right	24.68	3.7	28.38
		16QAM	1/Mid	23.82	3.7	27.52
		64QAM	1/Inner right	22.39	3.7	26.09
		256QAM	1/Inner right	20.35	3.7	24.05
80	2 536.02	$\pi/2$ BPSK	1/Inner right	24.59	3.7	28.29
		QPSK	1/Inner right	24.54	3.7	28.24
		16QAM	1/Inner right	23.73	3.7	27.43
		64QAM	1/Inner right	22.04	3.7	25.74
		256QAM	1/Inner right	20.03	3.7	23.73
	2 592.99	$\pi/2$ BPSK	1/Inner right	24.67	3.7	28.37
		QPSK	1/Inner right	24.66	3.7	28.36
		16QAM	1/Mid	23.81	3.7	27.51
		64QAM	1/Inner right	22.25	3.7	25.95
		256QAM	1/edge right	20.18	3.7	23.88
	2 649.99	$\pi/2$ BPSK	1/Inner right	24.74	3.7	28.44
		QPSK	1/inner left	24.76	3.7	28.46
		16QAM	1/Mid	23.86	3.7	27.56
		64QAM	1/Mid	22.31	3.7	26.01
		256QAM	1/edge left	20.43	3.7	24.13

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
70	2 531.01	$\pi/2$ BPSK	1/Inner right	24.41	3.7	28.11
		QPSK	1/Inner right	24.47	3.7	28.17
		16QAM	1/Inner right	23.36	3.7	27.06
		64QAM	1/Inner right	21.92	3.7	25.62
		256QAM	1/Mid	19.91	3.7	23.61
	2 592.99	$\pi/2$ BPSK	1/Mid	24.66	3.7	28.36
		QPSK	1/Inner right	24.65	3.7	28.35
		16QAM	1/Mid	23.70	3.7	27.40
		64QAM	1/Mid	22.25	3.7	25.95
		256QAM	1/Mid	20.24	3.7	23.94
	2 655.00	$\pi/2$ BPSK	1/inner left	24.89	3.7	28.59
		QPSK	1/inner left	24.80	3.7	28.50
		16QAM	1/inner left	23.91	3.7	27.61
		64QAM	1/Inner right	22.38	3.7	26.08
		256QAM	1/edge left	20.62	3.7	24.32
60	2 526.00	$\pi/2$ BPSK	1/Inner right	24.42	3.7	28.12
		QPSK	1/Inner right	24.52	3.7	28.22
		16QAM	1/Mid	23.63	3.7	27.33
		64QAM	1/Inner right	22.03	3.7	25.73
		256QAM	1/Inner right	20.26	3.7	23.96
	2 592.99	$\pi/2$ BPSK	1/Inner right	24.90	3.7	28.60
		QPSK	1/Mid	24.84	3.7	28.54
		16QAM	1/Inner right	23.86	3.7	27.56
		64QAM	1/Inner right	22.72	3.7	26.42
		256QAM	1/edge right	20.22	3.7	23.92
	2 659.98	$\pi/2$ BPSK	1/inner left	24.90	3.7	28.60
		QPSK	1/Inner right	24.82	3.7	28.52
		16QAM	1/Inner right	24.02	3.7	27.72
		64QAM	1/Inner right	22.30	3.7	26.00
		256QAM	1/edge right	20.45	3.7	24.15
50	2 521.02	$\pi/2$ BPSK	1/Inner right	24.51	3.7	28.21
		QPSK	1/Inner right	24.44	3.7	28.14
		16QAM	1/Inner right	23.76	3.7	27.46
		64QAM	1/Inner right	22.00	3.7	25.70
		256QAM	1/edge right	20.24	3.7	23.94
	2 592.99	$\pi/2$ BPSK	1/Inner right	24.92	3.7	28.62
		QPSK	1/Inner right	24.84	3.7	28.54
		16QAM	1/Inner right	23.95	3.7	27.65
		64QAM	1/inner left	22.50	3.7	26.20
		256QAM	1/edge left	20.58	3.7	24.28
	2 664.99	$\pi/2$ BPSK	1/Inner right	24.84	3.7	28.54
		QPSK	1/Inner right	24.82	3.7	28.52
		16QAM	1/Inner right	23.81	3.7	27.51
		64QAM	1/Inner right	22.14	3.7	25.84
		256QAM	1/edge right	20.61	3.7	24.31

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 516.01	$\pi/2$ BPSK	1/inner left	24.51	3.7	28.21
		QPSK	1/inner left	24.65	3.7	28.35
		16QAM	1/Inner right	23.88	3.7	27.58
		64QAM	1/Inner right	22.34	3.7	26.04
		256QAM	1/Inner right	20.28	3.7	23.98
	2 592.99	$\pi/2$ BPSK	1/Inner right	25.16	3.7	28.86
		QPSK	1/Inner right	25.07	3.7	28.77
		16QAM	1/Inner right	24.12	3.7	27.82
		64QAM	1/Inner right	22.74	3.7	26.44
		256QAM	1/Inner right	20.72	3.7	24.42
	2 670.00	$\pi/2$ BPSK	1/Inner right	24.97	3.7	28.67
		QPSK	1/Inner right	25.11	3.7	28.81
		16QAM	1/inner left	24.10	3.7	27.80
		64QAM	1/inner left	22.65	3.7	26.35
		256QAM	1/edge left	20.51	3.7	24.21
30	2 511.00	$\pi/2$ BPSK	1/Inner right	24.48	3.7	28.18
		QPSK	1/Inner right	24.47	3.7	28.17
		16QAM	1/Inner right	23.62	3.7	27.32
		64QAM	1/Mid	22.01	3.7	25.71
		256QAM	1/Inner right	20.08	3.7	23.78
	2 592.99	$\pi/2$ BPSK	1/Inner right	25.02	3.7	28.72
		QPSK	1/Mid	24.88	3.7	28.58
		16QAM	1/Inner right	23.95	3.7	27.65
		64QAM	1/inner left	22.58	3.7	26.28
		256QAM	1/Inner right	20.64	3.7	24.34
	2 674.98	$\pi/2$ BPSK	1/Inner right	25.00	3.7	28.70
		QPSK	1/Inner right	25.12	3.7	28.82
		16QAM	1/Inner right	24.17	3.7	27.87
		64QAM	1/Inner right	22.74	3.7	26.44
		256QAM	1/edge left	20.63	3.7	24.33
20	2 506.02	$\pi/2$ BPSK	1/inner left	24.48	3.7	28.18
		QPSK	1/Mid	24.57	3.7	28.27
		16QAM	1/inner left	23.84	3.7	27.54
		64QAM	1/Mid	22.14	3.7	25.84
		256QAM	1/Inner right	20.10	3.7	23.80
	2 592.99	$\pi/2$ BPSK	1/Inner right	25.01	3.7	28.71
		QPSK	1/Inner right	24.91	3.7	28.61
		16QAM	1/Inner right	23.92	3.7	27.62
		64QAM	1/Inner right	22.54	3.7	26.24
		256QAM	1/edge left	20.35	3.7	24.05
	2 679.99	$\pi/2$ BPSK	1/Inner right	24.83	3.7	28.53
		QPSK	1/Mid	24.82	3.7	28.52
		16QAM	1/Inner right	24.11	3.7	27.81
		64QAM	1/Mid	22.50	3.7	26.20
		256QAM	1/edge right	20.36	3.7	24.06

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	2 546.01	QPSK	1/Mid	19.60	20.66	23.17	3.0	26.17
		16QAM	1/Inner right	19.71	19.93	22.83	3.0	25.83
		64QAM	1/edge right	18.07	18.46	21.28	3.0	24.28
		256QAM	1/Inner right	15.36	15.83	18.61	3.0	21.61
	2 592.99	QPSK	1/Inner right	20.07	20.66	23.39	3.0	26.39
		16QAM	1/Mid	19.53	19.98	22.77	3.0	25.77
		64QAM	1/Inner right	18.05	19.00	21.56	3.0	24.56
		256QAM	1/Inner right	15.14	15.88	18.54	3.0	21.54
	2 640.00	QPSK	1/Inner right	20.00	20.61	23.33	3.0	26.33
		16QAM	1/inner left	19.53	20.00	22.78	3.0	25.78
		64QAM	1/Mid	18.02	18.90	21.49	3.0	24.49
		256QAM	1/Mid	14.89	15.90	18.43	3.0	21.43
90	2 541.00	QPSK	1/Inner right	19.90	20.59	23.27	3.0	26.27
		16QAM	1/Inner right	19.53	19.76	22.66	3.0	25.66
		64QAM	1/Inner right	18.10	18.66	21.40	3.0	24.40
		256QAM	1/Inner right	14.95	15.74	18.37	3.0	21.37
	2 592.99	QPSK	1/Inner right	20.23	20.81	23.54	3.0	26.54
		16QAM	1/Inner right	19.87	20.23	23.06	3.0	26.06
		64QAM	1/Mid	18.16	18.73	21.46	3.0	24.46
		256QAM	1/Mid	15.19	15.90	18.57	3.0	21.57
	2 644.98	QPSK	1/inner left	20.08	20.66	23.39	3.0	26.39
		16QAM	1/Mid	19.70	20.03	22.88	3.0	25.88
		64QAM	1/edge left	18.21	18.30	21.27	3.0	24.27
		256QAM	1/inner left	15.34	15.66	18.51	3.0	21.51
80	2 536.02	QPSK	1/Inner right	20.06	20.43	23.26	3.0	26.26
		16QAM	1/Inner right	19.31	20.22	22.80	3.0	25.80
		64QAM	1/inner left	18.02	18.72	21.39	3.0	24.39
		256QAM	1/Mid	14.75	15.76	18.29	3.0	21.29
	2 592.99	QPSK	1/Inner right	20.00	20.90	23.48	3.0	26.48
		16QAM	1/Inner right	19.63	20.26	22.97	3.0	25.97
		64QAM	1/Inner right	17.85	18.88	21.41	3.0	24.41
		256QAM	1/Inner right	15.13	16.02	18.61	3.0	21.61
	2 649.99	QPSK	1/Mid	20.11	21.01	23.59	3.0	26.59
		16QAM	1/inner left	20.01	20.24	23.14	3.0	26.14
		64QAM	1/Mid	18.41	18.58	21.51	3.0	24.51
		256QAM	1/Mid	15.13	15.95	18.57	3.0	21.57

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
70	2 531.01	QPSK	1/Inner right	19.83	20.43	23.15	3.0	26.15
		16QAM	1/Mid	19.00	20.29	22.70	3.0	25.70
		64QAM	1/Inner right	17.84	18.90	21.41	3.0	24.41
		256QAM	1/inner left	14.83	16.34	18.66	3.0	21.66
	2 592.99	QPSK	1/Inner right	20.27	21.20	23.77	3.0	26.77
		16QAM	1/Inner right	19.50	20.36	22.96	3.0	25.96
		64QAM	1/edge right	18.25	18.89	21.59	3.0	24.59
		256QAM	1/edge left	14.98	15.91	18.48	3.0	21.48
	2 655.00	QPSK	1/inner left	20.05	20.62	23.35	3.0	26.35
		16QAM	1/Inner right	19.86	19.85	22.87	3.0	25.87
		64QAM	1/edge left	18.14	18.90	21.55	3.0	24.55
		256QAM	1/inner left	15.49	15.94	18.73	3.0	21.73
60	2 526.00	QPSK	1/Inner right	20.10	20.78	23.46	3.0	26.46
		16QAM	1/Inner right	19.39	20.16	22.80	3.0	25.80
		64QAM	1/edge right	17.83	19.06	21.50	3.0	24.50
		256QAM	1/Inner right	15.00	15.96	18.52	3.0	21.52
	2 592.99	QPSK	1/Mid	20.43	20.69	23.57	3.0	26.57
		16QAM	1/Inner right	19.66	20.44	23.08	3.0	26.08
		64QAM	1/Mid	18.22	19.09	21.69	3.0	24.69
		256QAM	1/edge right	15.47	16.16	18.84	3.0	21.84
	2 659.98	QPSK	1/Mid	20.13	20.92	23.55	3.0	26.55
		16QAM	1/inner left	19.82	20.17	23.01	3.0	26.01
		64QAM	1/Mid	18.28	19.14	21.74	3.0	24.74
		256QAM	1/inner left	15.31	15.89	18.62	3.0	21.62
50	2 521.02	QPSK	1/Mid	20.10	20.80	23.47	3.0	26.47
		16QAM	1/Mid	19.27	20.66	23.03	3.0	26.03
		64QAM	1/edge right	18.41	19.25	21.86	3.0	24.86
		256QAM	1/edge right	15.18	16.42	18.85	3.0	21.85
	2 592.99	QPSK	1/Inner right	20.38	21.21	23.83	3.0	26.83
		16QAM	1/Inner right	19.86	20.59	23.25	3.0	26.25
		64QAM	1/Inner right	18.30	19.30	21.84	3.0	24.84
		256QAM	1/edge right	15.33	16.27	18.84	3.0	21.84
	2 664.99	QPSK	1/Inner right	20.41	20.71	23.57	3.0	26.57
		16QAM	1/Inner right	19.86	20.36	23.13	3.0	26.13
		64QAM	1/Inner right	18.55	18.76	21.67	3.0	24.67
		256QAM	1/edge left	15.70	16.05	18.89	3.0	21.89

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
40	2 516.01	QPSK	1/Inner right	20.06	20.95	23.54	3.0	26.54
		16QAM	1/inner left	19.72	20.33	23.05	3.0	26.05
		64QAM	1/Inner right	18.23	19.24	21.77	3.0	24.77
		256QAM	1/inner left	14.98	16.22	18.65	3.0	21.65
	2 592.99	QPSK	1/Inner right	20.38	20.79	23.60	3.0	26.60
		16QAM	1/Inner right	20.03	20.26	23.16	3.0	26.16
		64QAM	1/edge right	18.49	19.02	21.77	3.0	24.77
		256QAM	1/Inner right	15.50	16.14	18.84	3.0	21.84
	2 670.00	QPSK	1/Inner right	20.64	20.86	23.76	3.0	26.76
		16QAM	1/inner left	20.03	20.62	23.35	3.0	26.35
		64QAM	1/edge left	18.46	19.33	21.93	3.0	24.93
		256QAM	1/edge left	15.49	16.20	18.87	3.0	21.87
30	2 511.00	QPSK	1/Inner right	20.00	21.17	23.63	3.0	26.63
		16QAM	1/inner left	19.20	20.53	22.93	3.0	25.93
		64QAM	1/edge right	18.22	18.99	21.63	3.0	24.63
		256QAM	1/Inner right	15.13	16.59	18.93	3.0	21.93
	2 592.99	QPSK	1/Inner right	20.46	20.93	23.71	3.0	26.71
		16QAM	1/Inner right	19.59	20.49	23.07	3.0	26.07
		64QAM	1/edge right	18.33	18.99	21.68	3.0	24.68
		256QAM	1/edge right	15.60	16.37	19.01	3.0	22.01
	2 674.98	QPSK	1/inner left	20.16	21.01	23.62	3.0	26.62
		16QAM	1/inner left	19.83	20.32	23.09	3.0	26.09
		64QAM	1/edge right	18.65	18.79	21.73	3.0	24.73
		256QAM	1/edge right	15.57	16.09	18.85	3.0	21.85
20	2 506.02	QPSK	1/inner left	19.87	20.84	23.39	3.0	26.39
		16QAM	1/Inner right	19.46	20.42	22.98	3.0	25.98
		64QAM	1/Inner right	18.16	19.24	21.74	3.0	24.74
		256QAM	1/inner left	15.34	16.46	18.95	3.0	21.95
	2 592.99	QPSK	1/Mid	20.36	21.13	23.77	3.0	26.77
		16QAM	1/Inner right	20.07	20.66	23.39	3.0	26.39
		64QAM	1/inner left	18.36	19.10	21.76	3.0	24.76
		256QAM	1/Mid	15.55	16.42	19.02	3.0	22.02
	2 679.99	QPSK	1/Mid	20.32	20.93	23.65	3.0	26.65
		16QAM	1/Inner right	19.80	20.59	23.22	3.0	26.22
		64QAM	1/edge left	18.21	18.93	21.60	3.0	24.60
		256QAM	1/Mid	15.40	16.53	19.01	3.0	22.01

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SISO: Internal Chip Antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	2 590.00	$\pi/2$ BPSK	1/Inner right	24.86	3.1	27.96
		QPSK	1/Inner right	25.02	3.1	28.12
		16QAM	1/Inner right	24.24	3.1	27.34
		64QAM	1/Inner right	22.75	3.1	25.85
		256QAM	1/Inner right	20.52	3.1	23.62
	2 595.00	$\pi/2$ BPSK	1/Inner right	25.12	3.1	28.22
		QPSK	1/Inner right	25.07	3.1	28.17
		16QAM	1/Inner right	24.27	3.1	27.37
		64QAM	1/Mid	22.59	3.1	25.69
		256QAM	1/Inner right	20.71	3.1	23.81
	2 600.00	$\pi/2$ BPSK	1/Inner right	25.14	3.1	28.24
		QPSK	1/Inner right	25.22	3.1	28.32
		16QAM	1/Inner right	24.22	3.1	27.32
		64QAM	1/inner left	22.63	3.1	25.73
		256QAM	1/edge right	20.87	3.1	23.97
30	2 585.00	$\pi/2$ BPSK	1/Inner right	25.30	3.1	28.40
		QPSK	1/Inner right	25.59	3.1	28.69
		16QAM	1/Inner right	24.59	3.1	27.69
		64QAM	1/Inner right	23.11	3.1	26.21
		256QAM	1/Inner right	21.05	3.1	24.15
	2 595.00	$\pi/2$ BPSK	1/Inner right	25.38	3.1	28.48
		QPSK	1/inner left	25.32	3.1	28.42
		16QAM	1/Inner right	24.35	3.1	27.45
		64QAM	1/Inner right	23.04	3.1	26.14
		256QAM	1/edge right	21.21	3.1	24.31
	2 605.00	$\pi/2$ BPSK	1/Inner right	25.48	3.1	28.58
		QPSK	1/Inner right	25.66	3.1	28.76
		16QAM	1/inner left	24.51	3.1	27.61
		64QAM	1/Mid	22.99	3.1	26.09
		256QAM	1/edge right	21.12	3.1	24.22
20	2 580.00	$\pi/2$ BPSK	1/Inner right	24.86	3.1	27.96
		QPSK	1/Mid	24.75	3.1	27.85
		16QAM	1/Inner right	23.72	3.1	26.82
		64QAM	1/Inner right	22.11	3.1	25.21
		256QAM	1/Mid	20.51	3.1	23.61
	2 595.00	$\pi/2$ BPSK	1/Inner right	24.93	3.1	28.03
		QPSK	1/Inner right	24.70	3.1	27.80
		16QAM	1/Mid	23.71	3.1	26.81
		64QAM	1/Mid	22.79	3.1	25.89
		256QAM	1/edge left	20.18	3.1	23.28
	2 610.00	$\pi/2$ BPSK	1/Inner right	24.91	3.1	28.01
		QPSK	1/inner left	24.92	3.1	28.02
		16QAM	1/Inner right	24.11	3.1	27.21
		64QAM	1/Inner right	22.21	3.1	25.31
		256QAM	1/edge left	20.56	3.1	23.66

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	2 577.50	$\pi/2$ BPSK	1/Inner right	24.98	3.1	28.08
		QPSK	1/Inner right	24.89	3.1	27.99
		16QAM	1/inner left	23.57	3.1	26.67
		64QAM	1/Inner right	22.69	3.1	25.79
		256QAM	1/Inner right	20.57	3.1	23.67
	2 595.00	$\pi/2$ BPSK	1/Inner right	25.04	3.1	28.14
		QPSK	1/Inner right	25.03	3.1	28.13
		16QAM	1/Mid	24.13	3.1	27.23
		64QAM	1/Mid	22.16	3.1	25.26
		256QAM	1/edge right	21.17	3.1	24.27
	2 612.50	$\pi/2$ BPSK	1/Inner right	25.00	3.1	28.10
		QPSK	1/Inner right	25.21	3.1	28.31
		16QAM	1/Mid	24.16	3.1	27.26
		64QAM	1/Mid	22.74	3.1	25.84
		256QAM	1/inner left	20.50	3.1	23.60
10	2 575.00	$\pi/2$ BPSK	1/Inner right	24.71	3.1	27.81
		QPSK	1/Inner right	24.72	3.1	27.82
		16QAM	1/Inner right	23.45	3.1	26.55
		64QAM	1/Inner right	22.26	3.1	25.36
		256QAM	1/edge left	20.31	3.1	23.41
	2 595.00	$\pi/2$ BPSK	1/Mid	24.94	3.1	28.04
		QPSK	1/Inner right	25.07	3.1	28.17
		16QAM	1/inner left	24.13	3.1	27.23
		64QAM	1/Inner right	22.85	3.1	25.95
		256QAM	1/inner left	20.68	3.1	23.78
	2 615.00	$\pi/2$ BPSK	1/Mid	24.94	3.1	28.04
		QPSK	1/Inner right	25.18	3.1	28.28
		16QAM	1/Mid	24.22	3.1	27.32
		64QAM	1/Mid	22.54	3.1	25.64
		256QAM	1/Inner right	20.58	3.1	23.68

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
40	2 590.00	QPSK	1/Inner right	20.60	20.86	23.74	2.5	26.24
		16QAM	1/Inner right	20.10	20.44	23.28	2.5	25.78
		64QAM	1/edge right	18.93	19.08	22.02	2.5	24.52
		256QAM	1/edge right	15.54	16.47	19.04	2.5	21.54
	2 595.00	QPSK	1/Inner right	20.95	20.96	23.97	2.5	26.47
		16QAM	1/Inner right	20.18	20.47	23.34	2.5	25.84
		64QAM	1/edge left	18.81	18.91	21.87	2.5	24.37
		256QAM	1/edge right	15.86	16.24	19.06	2.5	21.56
	2 600.00	QPSK	1/inner left	20.55	21.18	23.89	2.5	26.39
		16QAM	1/Mid	20.34	20.28	23.32	2.5	25.82
		64QAM	1/edge right	18.78	18.90	21.85	2.5	24.35
		256QAM	1/inner left	15.73	16.52	19.15	2.5	21.65
30	2 585.00	QPSK	1/Inner right	20.55	20.89	23.73	2.5	26.23
		16QAM	1/Inner right	20.12	20.50	23.32	2.5	25.82
		64QAM	1/edge right	18.77	19.12	21.96	2.5	24.46
		256QAM	1/edge right	15.60	16.45	19.06	2.5	21.56
	2 595.00	QPSK	1/Inner right	20.98	20.98	23.99	2.5	26.49
		16QAM	1/Inner right	20.23	20.46	23.36	2.5	25.86
		64QAM	1/edge left	18.85	18.96	21.92	2.5	24.42
		256QAM	1/edge right	15.88	16.16	19.03	2.5	21.53
	2 605.00	QPSK	1/inner left	20.59	21.23	23.93	2.5	26.43
		16QAM	1/Mid	20.37	20.35	23.37	2.5	25.87
		64QAM	1/edge right	18.83	18.93	21.89	2.5	24.39
		256QAM	1/inner left	15.76	16.64	19.23	2.5	21.73
20	2 580.00	QPSK	1/Inner right	20.28	21.05	23.69	2.5	26.19
		16QAM	1/Inner right	20.04	20.32	23.19	2.5	25.69
		64QAM	1/Mid	18.18	18.92	21.58	2.5	24.08
		256QAM	1/edge right	15.82	15.96	18.90	2.5	21.40
	2 595.00	QPSK	1/inner left	20.73	20.84	23.80	2.5	26.30
		16QAM	1/Mid	19.88	20.36	23.14	2.5	25.64
		64QAM	1/Inner right	18.92	18.53	21.74	2.5	24.24
		256QAM	1/edge left	15.32	16.63	19.03	2.5	21.53
	2 610.00	QPSK	1/inner left	20.70	21.02	23.87	2.5	26.37
		16QAM	1/inner left	20.24	20.53	23.40	2.5	25.90
		64QAM	1/edge left	18.95	18.87	21.92	2.5	24.42
		256QAM	1/edge left	15.97	16.05	19.02	2.5	21.52

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
15	2 577.50	QPSK	1/Inner right	20.57	21.03	23.82	2.5	26.32
		16QAM	1/inner left	20.00	20.32	23.17	2.5	25.67
		64QAM	1/Inner right	18.49	18.63	21.57	2.5	24.07
		256QAM	1/Inner right	15.49	16.44	19.00	2.5	21.50
	2 595.00	QPSK	1/Mid	20.71	20.83	23.78	2.5	26.28
		16QAM	1/Inner right	20.31	20.66	23.50	2.5	26.00
		64QAM	1/Mid	19.03	18.52	21.79	2.5	24.29
		256QAM	1/edge right	16.19	16.13	19.17	2.5	21.67
	2 612.50	QPSK	1/Inner right	20.65	21.10	23.89	2.5	26.39
		16QAM	1/Inner right	20.78	20.17	23.50	2.5	26.00
		64QAM	1/Inner right	18.98	18.92	21.96	2.5	24.46
		256QAM	1/edge right	15.64	16.13	18.90	2.5	21.40
10	2 575.00	QPSK	1/inner left	19.87	20.77	23.35	2.5	25.85
		16QAM	1/inner left	19.54	20.05	22.81	2.5	25.31
		64QAM	1/Mid	18.30	18.32	21.32	2.5	23.82
		256QAM	1/inner left	15.02	16.49	18.83	2.5	21.33
	2 595.00	QPSK	1/inner left	19.81	20.41	23.13	2.5	25.63
		16QAM	1/Mid	19.92	19.91	22.93	2.5	25.43
		64QAM	1/edge left	18.46	18.14	21.31	2.5	23.81
		256QAM	1/Mid	15.09	15.85	18.50	2.5	21.00
	2 615.00	QPSK	1/Mid	20.62	20.73	23.69	2.5	26.19
		16QAM	1/Mid	19.90	20.22	23.07	2.5	25.57
		64QAM	1/Inner right	18.62	18.65	21.65	2.5	24.15
		256QAM	1/edge right	15.65	16.34	19.02	2.5	21.52

7.1.15. NR Band n78 3 450 ~ 3 550 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	$\pi/2$ BPSK	1/Mid	24.67	3.2	27.87
		QPSK	1/Mid	24.59	3.2	27.79
		16QAM	1/Mid	23.82	3.2	27.02
		64QAM	1/Mid	22.19	3.2	25.39
		256QAM	1/Mid	20.14	3.2	23.34
90	3 495.00	$\pi/2$ BPSK	1/Mid	24.83	3.2	28.03
		QPSK	1/Mid	24.59	3.2	27.79
		16QAM	1/Mid	23.74	3.2	26.94
		64QAM	1/inner left	22.16	3.2	25.36
		256QAM	1/Mid	20.21	3.2	23.41
	3 500.01	$\pi/2$ BPSK	1/Mid	24.71	3.2	27.91
		QPSK	1/Mid	24.70	3.2	27.90
		16QAM	1/Mid	23.60	3.2	26.80
		64QAM	1/Mid	22.28	3.2	25.48
		256QAM	1/edge left	20.03	3.2	23.23
	3 504.99	$\pi/2$ BPSK	1/Mid	24.55	3.2	27.75
		QPSK	1/Mid	24.60	3.2	27.80
		16QAM	1/Mid	23.62	3.2	26.82
		64QAM	1/Mid	22.11	3.2	25.31
		256QAM	1/Mid	20.16	3.2	23.36
80	3 490.02	$\pi/2$ BPSK	1/Mid	24.57	3.2	27.77
		QPSK	1/Mid	24.61	3.2	27.81
		16QAM	1/Mid	23.67	3.2	26.87
		64QAM	1/Inner right	22.06	3.2	25.26
		256QAM	1/edge left	19.98	3.2	23.18
	3 500.01	$\pi/2$ BPSK	1/Mid	24.82	3.2	28.02
		QPSK	1/Mid	24.76	3.2	27.96
		16QAM	1/Mid	23.71	3.2	26.91
		64QAM	1/Mid	22.13	3.2	25.33
		256QAM	1/inner left	20.31	3.2	23.51
	3 510.00	$\pi/2$ BPSK	1/Mid	24.60	3.2	27.80
		QPSK	1/inner left	24.61	3.2	27.81
		16QAM	1/Mid	23.71	3.2	26.91
		64QAM	1/inner left	22.01	3.2	25.21
		256QAM	1/Mid	20.16	3.2	23.36
70	3 485.01	$\pi/2$ BPSK	1/Mid	24.69	3.2	27.89
		QPSK	1/Mid	24.69	3.2	27.89
		16QAM	1/Mid	23.75	3.2	26.95
		64QAM	1/Mid	22.35	3.2	25.55
		256QAM	1/edge left	20.11	3.2	23.31
	3 500.01	$\pi/2$ BPSK	1/inner left	24.71	3.2	27.91
		QPSK	1/Mid	24.71	3.2	27.91
		16QAM	1/Mid	23.72	3.2	26.92
		64QAM	1/Mid	22.12	3.2	25.32
		256QAM	1/Mid	20.51	3.2	23.71
	3 515.01	$\pi/2$ BPSK	1/inner left	24.71	3.2	27.91
		QPSK	1/inner left	24.60	3.2	27.80
		16QAM	1/inner left	23.66	3.2	26.86
		64QAM	1/inner left	22.46	3.2	25.66
		256QAM	1/inner left	20.07	3.2	23.27

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	$\pi/2$ BPSK	1/Mid	24.73	3.2	27.93
		QPSK	1/Mid	24.74	3.2	27.94
		16QAM	1/inner left	23.64	3.2	26.84
		64QAM	1/Mid	22.54	3.2	25.74
		256QAM	1/Mid	20.48	3.2	23.68
	3 500.01	$\pi/2$ BPSK	1/Mid	24.82	3.2	28.02
		QPSK	1/Mid	24.90	3.2	28.10
		16QAM	1/inner left	23.86	3.2	27.06
		64QAM	1/Mid	22.68	3.2	25.88
		256QAM	1/Mid	20.43	3.2	23.63
	3 519.99	$\pi/2$ BPSK	1/inner left	24.75	3.2	27.95
		QPSK	1/inner left	24.75	3.2	27.95
		16QAM	1/inner left	23.84	3.2	27.04
		64QAM	1/inner left	22.26	3.2	25.46
		256QAM	1/edge left	20.41	3.2	23.61
50	3 475.02	$\pi/2$ BPSK	1/Inner right	24.98	3.2	28.18
		QPSK	1/Inner right	24.98	3.2	28.18
		16QAM	1/Inner right	23.90	3.2	27.10
		64QAM	1/inner left	22.40	3.2	25.60
		256QAM	1/Mid	20.37	3.2	23.57
	3 500.01	$\pi/2$ BPSK	1/inner left	24.82	3.2	28.02
		QPSK	1/Mid	24.85	3.2	28.05
		16QAM	1/Mid	23.92	3.2	27.12
		64QAM	1/inner left	22.30	3.2	25.50
		256QAM	1/Inner right	20.47	3.2	23.67
	3 525.00	$\pi/2$ BPSK	1/inner left	24.78	3.2	27.98
		QPSK	1/inner left	24.74	3.2	27.94
		16QAM	1/inner left	23.91	3.2	27.11
		64QAM	1/inner left	22.29	3.2	25.49
		256QAM	1/Mid	20.26	3.2	23.46
40	3 470.01	$\pi/2$ BPSK	1/Inner right	25.08	3.2	28.28
		QPSK	1/Inner right	25.09	3.2	28.29
		16QAM	1/Inner right	24.19	3.2	27.39
		64QAM	1/Inner right	22.76	3.2	25.96
		256QAM	1/Mid	20.74	3.2	23.94
	3 500.01	$\pi/2$ BPSK	1/inner left	25.32	3.2	28.52
		QPSK	1/inner left	25.12	3.2	28.32
		16QAM	1/Mid	24.32	3.2	27.52
		64QAM	1/Mid	22.58	3.2	25.78
		256QAM	1/Mid	20.76	3.2	23.96
	3 530.01	$\pi/2$ BPSK	1/inner left	24.83	3.2	28.03
		QPSK	1/inner left	25.07	3.2	28.27
		16QAM	1/inner left	23.99	3.2	27.19
		64QAM	1/inner left	22.45	3.2	25.65
		256QAM	1/edge left	20.68	3.2	23.88

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	$\pi/2$ BPSK	1/Inner right	25.24	3.2	28.44
		QPSK	1/Mid	25.13	3.2	28.33
		16QAM	1/Inner right	24.23	3.2	27.43
		64QAM	1/inner left	22.52	3.2	25.72
		256QAM	1/edge right	20.93	3.2	24.13
	3 500.01	$\pi/2$ BPSK	1/Mid	24.99	3.2	28.19
		QPSK	1/inner left	25.23	3.2	28.43
		16QAM	1/Inner right	24.18	3.2	27.38
		64QAM	1/Mid	22.87	3.2	26.07
		256QAM	1/edge left	20.82	3.2	24.02
	3 534.99	$\pi/2$ BPSK	1/inner left	24.79	3.2	27.99
		QPSK	1/inner left	24.84	3.2	28.04
		16QAM	1/inner left	23.75	3.2	26.95
		64QAM	1/Mid	22.06	3.2	25.26
		256QAM	1/edge left	20.28	3.2	23.48
20	3 460.02	$\pi/2$ BPSK	1/Inner right	24.85	3.2	28.05
		QPSK	1/inner left	24.88	3.2	28.08
		16QAM	1/inner left	23.97	3.2	27.17
		64QAM	1/Inner right	22.70	3.2	25.90
		256QAM	1/edge right	20.88	3.2	24.08
	3 500.01	$\pi/2$ BPSK	1/Mid	25.12	3.2	28.32
		QPSK	1/Mid	25.06	3.2	28.26
		16QAM	1/inner left	24.56	3.2	27.76
		64QAM	1/Mid	22.86	3.2	26.06
		256QAM	1/inner left	21.11	3.2	24.31
	3 540.00	$\pi/2$ BPSK	1/inner left	24.68	3.2	27.88
		QPSK	1/inner left	24.49	3.2	27.69
		16QAM	1/Inner right	23.58	3.2	26.78
		64QAM	1/Mid	22.34	3.2	25.54
		256QAM	1/Inner right	20.33	3.2	23.53
15	3 457.50	$\pi/2$ BPSK	1/inner left	24.92	3.2	28.12
		QPSK	1/inner left	25.03	3.2	28.23
		16QAM	1/Inner right	24.06	3.2	27.26
		64QAM	1/Mid	22.52	3.2	25.72
		256QAM	1/Inner right	20.40	3.2	23.60
	3 500.01	$\pi/2$ BPSK	1/Mid	25.08	3.2	28.28
		QPSK	1/inner left	25.14	3.2	28.34
		16QAM	1/inner left	24.04	3.2	27.24
		64QAM	1/inner left	22.41	3.2	25.61
		256QAM	1/inner left	20.80	3.2	24.00
	3 542.49	$\pi/2$ BPSK	1/Mid	24.21	3.2	27.41
		QPSK	1/Mid	24.41	3.2	27.61
		16QAM	1/Inner right	23.14	3.2	26.34
		64QAM	1/Mid	22.33	3.2	25.53
		256QAM	1/Mid	20.14	3.2	23.34

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	$\pi/2$ BPSK	1/Inner right	24.83	3.2	28.03
		QPSK	1/Inner right	24.78	3.2	27.98
		16QAM	1/Inner right	23.60	3.2	26.80
		64QAM	1/inner left	22.20	3.2	25.40
		256QAM	1/inner left	20.63	3.2	23.83
	3 500.01	$\pi/2$ BPSK	1/inner left	25.03	3.2	28.23
		QPSK	1/inner left	24.82	3.2	28.02
		16QAM	1/Mid	23.96	3.2	27.16
		64QAM	1/inner left	22.58	3.2	25.78
		256QAM	1/Mid	20.49	3.2	23.69
	3 545.01	$\pi/2$ BPSK	1/Mid	24.24	3.2	27.44
		QPSK	1/Inner right	24.46	3.2	27.66
		16QAM	1/inner left	23.40	3.2	26.60
		64QAM	1/Mid	21.91	3.2	25.11
		256QAM	1/inner left	19.98	3.2	23.18

MIMO: External Antenna 1 + External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	QPSK	1/Mid	17.98	19.27	21.68	2.8	24.48
		16QAM	1/Mid	17.83	18.46	21.17	2.8	23.97
		64QAM	1/Mid	16.25	16.55	19.41	2.8	22.21
		256QAM	1/Inner right	13.41	13.66	16.55	2.8	19.35
90	3 495.00	QPSK	1/Inner right	18.58	17.74	21.19	2.8	23.99
		16QAM	1/Inner right	18.17	17.31	20.77	2.8	23.57
		64QAM	1/Inner right	16.75	15.83	19.32	2.8	22.12
		256QAM	1/Inner right	13.44	13.03	16.25	2.8	19.05
	3 500.01	QPSK	1/Inner right	18.75	18.26	21.52	2.8	24.32
		16QAM	1/Mid	17.56	18.24	20.92	2.8	23.72
		64QAM	1/Mid	16.08	16.85	19.49	2.8	22.29
		256QAM	1/Mid	12.87	14.01	16.49	2.8	19.29
	3 504.99	QPSK	1/Inner right	18.57	18.49	21.54	2.8	24.34
		16QAM	1/Mid	17.44	18.40	20.96	2.8	23.76
		64QAM	1/Inner right	16.75	16.33	19.56	2.8	22.36
		256QAM	1/Mid	13.15	14.01	16.61	2.8	19.41
80	3 490.02	QPSK	1/inner left	18.01	18.68	21.37	2.8	24.17
		16QAM	1/Inner right	17.98	18.10	21.05	2.8	23.85
		64QAM	1/Inner right	16.63	16.43	19.54	2.8	22.34
		256QAM	1/edge right	13.28	13.71	16.51	2.8	19.31
	3 500.01	QPSK	1/Mid	17.85	19.00	21.47	2.8	24.27
		16QAM	1/Inner right	17.80	18.01	20.92	2.8	23.72
		64QAM	1/Inner right	16.60	16.36	19.49	2.8	22.29
		256QAM	1/edge right	13.68	13.39	16.55	2.8	19.35
	3 510.00	QPSK	1/Mid	18.29	18.85	21.59	2.8	24.39
		16QAM	1/Inner right	18.05	17.78	20.93	2.8	23.73
		64QAM	1/Inner right	16.78	16.35	19.58	2.8	22.38
		256QAM	1/inner left	12.99	13.98	16.52	2.8	19.32
70	3 485.01	QPSK	1/Mid	17.97	18.99	21.52	2.8	24.32
		16QAM	1/inner left	17.52	18.39	20.99	2.8	23.79
		64QAM	1/inner left	16.36	16.59	19.49	2.8	22.29
		256QAM	1/inner left	13.04	13.95	16.53	2.8	19.33
	3 500.01	QPSK	1/Mid	17.93	18.84	21.42	2.8	24.22
		16QAM	1/Mid	17.44	18.18	20.84	2.8	23.64
		64QAM	1/Mid	16.01	16.91	19.49	2.8	22.29
		256QAM	1/edge left	13.10	14.00	16.58	2.8	19.38
	3 515.01	QPSK	1/inner left	17.97	18.81	21.42	2.8	24.22
		16QAM	1/Inner right	18.20	17.58	20.91	2.8	23.71
		64QAM	1/edge left	16.21	16.98	19.62	2.8	22.42
		256QAM	1/edge right	13.69	13.24	16.48	2.8	19.28

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	QPSK	1/Mid	18.26	19.12	21.72	2.8	24.52
		16QAM	1/Mid	17.79	18.61	21.23	2.8	24.03
		64QAM	1/edge left	16.44	16.71	19.59	2.8	22.39
		256QAM	1/Inner right	13.04	13.98	16.55	2.8	19.35
	3 500.01	QPSK	1/Inner right	18.28	18.72	21.52	2.8	24.32
		16QAM	1/Mid	17.51	18.55	21.07	2.8	23.87
		64QAM	1/Mid	16.38	17.33	19.89	2.8	22.69
		256QAM	1/Inner right	13.50	13.55	16.54	2.8	19.34
	3 519.99	QPSK	1/Mid	18.28	19.01	21.67	2.8	24.47
		16QAM	1/Inner right	18.05	17.99	21.03	2.8	23.83
		64QAM	1/Inner right	16.72	16.52	19.63	2.8	22.43
		256QAM	1/Mid	13.29	13.99	16.66	2.8	19.46
50	3 475.02	QPSK	1/Mid	17.94	19.09	21.56	2.8	24.36
		16QAM	1/Mid	17.79	18.31	21.07	2.8	23.87
		64QAM	1/Inner right	16.06	17.34	19.76	2.8	22.56
		256QAM	1/edge right	13.16	14.26	16.76	2.8	19.56
	3 500.01	QPSK	1/Inner right	18.75	18.81	21.79	2.8	24.59
		16QAM	1/Inner right	18.28	18.33	21.32	2.8	24.12
		64QAM	1/Inner right	16.91	16.85	19.89	2.8	22.69
		256QAM	1/Mid	13.13	14.33	16.78	2.8	19.58
	3 525.00	QPSK	1/Mid	18.62	18.70	21.67	2.8	24.47
		16QAM	1/Mid	18.01	18.33	21.18	2.8	23.98
		64QAM	1/edge left	16.10	17.28	19.74	2.8	22.54
		256QAM	1/edge left	13.07	14.21	16.69	2.8	19.49
40	3 470.01	QPSK	1/inner left	18.36	19.08	21.75	2.8	24.55
		16QAM	1/Inner right	17.79	18.82	21.35	2.8	24.15
		64QAM	1/inner left	16.62	17.28	19.97	2.8	22.77
		256QAM	1/edge right	13.41	14.51	17.01	2.8	19.81
	3 500.01	QPSK	1/Mid	18.50	19.20	21.87	2.8	24.67
		16QAM	1/Mid	18.09	18.70	21.42	2.8	24.22
		64QAM	1/edge left	16.24	17.62	19.99	2.8	22.79
		256QAM	1/inner left	13.52	14.38	16.98	2.8	19.78
	3 529.98	QPSK	1/Mid	18.67	19.08	21.89	2.8	24.69
		16QAM	1/Inner right	18.57	18.25	21.42	2.8	24.22
		64QAM	1/inner left	16.61	17.38	20.02	2.8	22.82
		256QAM	1/edge left	13.81	14.38	17.11	2.8	19.91

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power(dBm)	Ext Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	QPSK	1/Mid	18.43	19.48	22.00	2.8	24.80
		16QAM	1/Mid	17.94	18.85	21.43	2.8	24.23
		64QAM	1/Inner right	16.71	17.41	20.08	2.8	22.88
		256QAM	1/inner left	13.71	13.93	16.83	2.8	19.63
	3 500.01	QPSK	1/inner left	18.64	19.28	21.98	2.8	24.78
		16QAM	1/Mid	17.96	18.78	21.40	2.8	24.20
		64QAM	1/edge left	16.40	17.67	20.09	2.8	22.89
		256QAM	1/Mid	13.72	14.27	17.01	2.8	19.81
	3 534.99	QPSK	1/Mid	19.02	19.23	22.14	2.8	24.94
		16QAM	1/Mid	18.30	18.28	21.30	2.8	24.10
		64QAM	1/edge left	16.80	16.98	19.90	2.8	22.70
		256QAM	1/Mid	13.91	14.23	17.08	2.8	19.88
20	3 460.01	QPSK	1/inner left	18.56	18.91	21.75	2.8	24.55
		16QAM	1/inner left	17.70	18.54	21.15	2.8	23.95
		64QAM	1/edge right	16.22	17.23	19.76	2.8	22.56
		256QAM	1/inner left	13.75	14.04	16.91	2.8	19.71
	3 500.01	QPSK	1/inner left	18.35	19.14	21.77	2.8	24.57
		16QAM	1/Mid	17.59	18.56	21.11	2.8	23.91
		64QAM	1/inner left	16.35	17.45	19.95	2.8	22.75
		256QAM	1/edge left	13.38	14.62	17.05	2.8	19.85
	3 540.00	QPSK	1/inner left	18.77	18.74	21.77	2.8	24.57
		16QAM	1/Inner right	18.66	17.97	21.34	2.8	24.14
		64QAM	1/edge left	17.02	16.78	19.91	2.8	22.71
		256QAM	1/edge right	13.76	13.98	16.88	2.8	19.68
15	3 457.50	QPSK	1/Mid	18.22	18.54	21.39	2.8	24.19
		16QAM	1/inner left	17.66	18.49	21.11	2.8	23.91
		64QAM	1/edge left	16.63	17.40	20.04	2.8	22.84
		256QAM	1/edge left	13.97	13.82	16.91	2.8	19.71
	3 500.01	QPSK	1/inner left	17.85	19.05	21.50	2.8	24.30
		16QAM	1/Inner right	17.75	18.71	21.27	2.8	24.07
		64QAM	1/edge right	16.21	17.09	19.68	2.8	22.48
		256QAM	1/edge right	13.67	14.41	17.07	2.8	19.87
	3 542.49	QPSK	1/Mid	19.00	18.84	21.93	2.8	24.73
		16QAM	1/inner left	18.49	18.02	21.27	2.8	24.07
		64QAM	1/edge left	17.08	16.94	20.02	2.8	22.82
		256QAM	1/inner left	13.86	14.19	17.04	2.8	19.84
10	3 455.01	QPSK	1/inner left	18.26	18.68	21.49	2.8	24.29
		16QAM	1/inner left	17.59	18.28	20.96	2.8	23.76
		64QAM	1/edge left	16.06	16.99	19.56	2.8	22.36
		256QAM	1/Mid	13.15	14.37	16.81	2.8	19.61
	3 500.01	QPSK	1/Inner right	18.56	19.31	21.96	2.8	24.76
		16QAM	1/Inner right	18.17	18.32	21.26	2.8	24.06
		64QAM	1/inner left	16.37	17.46	19.96	2.8	22.76
		256QAM	1/inner left	13.47	14.11	16.81	2.8	19.61
	3 545.01	QPSK	1/Inner right	18.74	18.31	21.54	2.8	24.34
		16QAM	1/Mid	18.56	17.98	21.29	2.8	24.09
		64QAM	1/edge left	17.17	16.42	19.82	2.8	22.62
		256QAM	1/Inner right	13.96	13.64	16.81	2.8	19.61

7.1.16. NR Band n78 3 700 ~ 3 800 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	$\pi/2$ BPSK	1/Mid	25.01	3.9	28.91
		QPSK	1/Mid	25.03	3.9	28.93
		16QAM	1/Mid	24.04	3.9	27.94
		64QAM	1/Mid	22.34	3.9	26.24
		256QAM	1/Mid	20.55	3.9	24.45
90	3 745.02	$\pi/2$ BPSK	1/Mid	24.94	3.9	28.84
		QPSK	1/Mid	24.96	3.9	28.86
		16QAM	1/Mid	23.97	3.9	27.87
		64QAM	1/Mid	22.73	3.9	26.63
		256QAM	1/Mid	20.41	3.9	24.31
	3 750.00	$\pi/2$ BPSK	1/Mid	24.94	3.9	28.84
		QPSK	1/Mid	24.88	3.9	28.78
		16QAM	1/Mid	23.97	3.9	27.87
		64QAM	1/Mid	22.44	3.9	26.34
		256QAM	1/Mid	20.38	3.9	24.28
	3 754.98	$\pi/2$ BPSK	1/Mid	24.92	3.9	28.82
		QPSK	1/Mid	24.94	3.9	28.84
		16QAM	1/Mid	24.11	3.9	28.01
		64QAM	1/Inner right	22.52	3.9	26.42
		256QAM	1/Mid	20.72	3.9	24.62
80	3 740.01	$\pi/2$ BPSK	1/Mid	24.99	3.9	28.89
		QPSK	1/Mid	24.95	3.9	28.85
		16QAM	1/Mid	23.96	3.9	27.86
		64QAM	1/Mid	22.53	3.9	26.43
		256QAM	1/edge right	20.41	3.9	24.31
	3 750.00	$\pi/2$ BPSK	1/Mid	25.00	3.9	28.90
		QPSK	1/Mid	24.94	3.9	28.84
		16QAM	1/Inner right	23.95	3.9	27.85
		64QAM	1/Mid	22.52	3.9	26.42
		256QAM	1/Mid	20.49	3.9	24.39
	3 759.99	$\pi/2$ BPSK	1/Inner right	24.92	3.9	28.82
		QPSK	1/Mid	24.97	3.9	28.87
		16QAM	1/Mid	24.08	3.9	27.98
		64QAM	1/Mid	22.41	3.9	26.31
		256QAM	1/Mid	20.52	3.9	24.42
70	3 735.00	$\pi/2$ BPSK	1/Mid	24.95	3.9	28.85
		QPSK	1/Mid	24.90	3.9	28.80
		16QAM	1/Mid	23.89	3.9	27.79
		64QAM	1/Mid	22.31	3.9	26.21
		256QAM	1/Mid	20.34	3.9	24.24
	3 750.00	$\pi/2$ BPSK	1/Mid	24.93	3.9	28.83
		QPSK	1/Mid	24.94	3.9	28.84
		16QAM	1/Mid	23.80	3.9	27.70
		64QAM	1/Mid	22.26	3.9	26.16
		256QAM	1/edge right	20.44	3.9	24.34
	3 765.00	$\pi/2$ BPSK	1/Mid	24.98	3.9	28.88
		QPSK	1/Mid	24.89	3.9	28.79
		16QAM	1/Mid	23.86	3.9	27.76
		64QAM	1/Mid	22.77	3.9	26.67
		256QAM	1/Mid	20.70	3.9	24.60

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	$\pi/2$ BPSK	1/Inner right	25.07	3.9	28.97
		QPSK	1/Mid	25.04	3.9	28.94
		16QAM	1/Inner right	23.94	3.9	27.84
		64QAM	1/Mid	22.56	3.9	26.46
		256QAM	1/Inner right	20.55	3.9	24.45
	3 750.00	$\pi/2$ BPSK	1/Mid	25.11	3.9	29.01
		QPSK	1/Mid	25.11	3.9	29.01
		16QAM	1/Mid	23.99	3.9	27.89
		64QAM	1/Mid	22.77	3.9	26.67
		256QAM	1/Inner right	20.56	3.9	24.46
	3 769.98	$\pi/2$ BPSK	1/inner left	25.04	3.9	28.94
		QPSK	1/Mid	25.10	3.9	29.00
		16QAM	1/Inner right	24.07	3.9	27.97
		64QAM	1/Mid	22.59	3.9	26.49
		256QAM	1/inner left	20.53	3.9	24.43
50	3 725.01	$\pi/2$ BPSK	1/Inner right	25.02	3.9	28.92
		QPSK	1/Inner right	24.98	3.9	28.88
		16QAM	1/Inner right	24.00	3.9	27.90
		64QAM	1/Inner right	22.67	3.9	26.57
		256QAM	1/edge right	20.54	3.9	24.44
	3 750.00	$\pi/2$ BPSK	1/Mid	25.00	3.9	28.90
		QPSK	1/Mid	25.05	3.9	28.95
		16QAM	1/Mid	24.15	3.9	28.05
		64QAM	1/Mid	22.53	3.9	26.43
		256QAM	1/Mid	20.70	3.9	24.60
	3 774.99	$\pi/2$ BPSK	1/inner left	25.15	3.9	29.05
		QPSK	1/inner left	25.07	3.9	28.97
		16QAM	1/inner left	24.03	3.9	27.93
		64QAM	1/inner left	22.62	3.9	26.52
		256QAM	1/edge left	20.71	3.9	24.61
40	3 720.00	$\pi/2$ BPSK	1/Inner right	25.17	3.9	29.07
		QPSK	1/Inner right	25.33	3.9	29.23
		16QAM	1/Inner right	24.30	3.9	28.20
		64QAM	1/Inner right	22.92	3.9	26.82
		256QAM	1/edge right	20.97	3.9	24.87
	3 750.00	$\pi/2$ BPSK	1/Inner right	25.30	3.9	29.20
		QPSK	1/Inner right	25.32	3.9	29.22
		16QAM	1/inner left	24.36	3.9	28.26
		64QAM	1/Inner right	22.84	3.9	26.74
		256QAM	1/Inner right	21.02	3.9	24.92
	3 780.00	$\pi/2$ BPSK	1/inner left	25.41	3.9	29.31
		QPSK	1/inner left	25.49	3.9	29.39
		16QAM	1/inner left	24.46	3.9	28.36
		64QAM	1/Inner right	22.73	3.9	26.63
		256QAM	1/edge right	20.98	3.9	24.88

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	$\pi/2$ BPSK	1/Inner right	25.18	3.9	29.08
		QPSK	1/inner left	25.06	3.9	28.96
		16QAM	1/inner left	24.19	3.9	28.09
		64QAM	1/Inner right	22.64	3.9	26.54
		256QAM	1/edge right	21.02	3.9	24.92
	3 750.00	$\pi/2$ BPSK	1/inner left	25.31	3.9	29.21
		QPSK	1/Mid	25.25	3.9	29.15
		16QAM	1/Inner right	24.34	3.9	28.24
		64QAM	1/inner left	22.57	3.9	26.47
		256QAM	1/Mid	20.83	3.9	24.73
	3 785.01	$\pi/2$ BPSK	1/Mid	25.13	3.9	29.03
		QPSK	1/Mid	25.26	3.9	29.16
		16QAM	1/Inner right	24.56	3.9	28.46
		64QAM	1/Inner right	22.94	3.9	26.84
		256QAM	1/edge left	20.85	3.9	24.75
20	3 710.01	$\pi/2$ BPSK	1/Mid	25.14	3.9	29.04
		QPSK	1/inner left	25.21	3.9	29.11
		16QAM	1/Inner right	24.04	3.9	27.94
		64QAM	1/Inner right	22.88	3.9	26.78
		256QAM	1/Inner right	20.75	3.9	24.65
	3 750	$\pi/2$ BPSK	1/inner left	25.29	3.9	29.19
		QPSK	1/Inner right	25.13	3.9	29.03
		16QAM	1/inner left	24.30	3.9	28.20
		64QAM	1/Inner right	23.03	3.9	26.93
		256QAM	1/Inner right	20.90	3.9	24.80
	3 789.99	$\pi/2$ BPSK	1/inner left	25.07	3.9	28.97
		QPSK	1/inner left	25.13	3.9	29.03
		16QAM	1/inner left	24.40	3.9	28.30
		64QAM	1/Mid	22.37	3.9	26.27
		256QAM	1/edge right	20.72	3.9	24.62
15	3 707.52	$\pi/2$ BPSK	1/Inner right	24.76	3.9	28.66
		QPSK	1/Inner right	24.89	3.9	28.79
		16QAM	1/Inner right	23.65	3.9	27.55
		64QAM	1/Inner right	22.82	3.9	26.72
		256QAM	1/inner left	20.64	3.9	24.54
	3 750	$\pi/2$ BPSK	1/Inner right	24.94	3.9	28.84
		QPSK	1/inner left	25.31	3.9	29.21
		16QAM	1/inner left	24.45	3.9	28.35
		64QAM	1/Inner right	22.77	3.9	26.67
		256QAM	1/Mid	21.18	3.9	25.08
	3 792.48	$\pi/2$ BPSK	1/inner left	25.11	3.9	29.01
		QPSK	1/Mid	24.99	3.9	28.89
		16QAM	1/Mid	24.13	3.9	28.03
		64QAM	1/Mid	22.49	3.9	26.39
		256QAM	1/inner left	20.90	3.9	24.80

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 705.00	$\pi/2$ BPSK	1/Inner right	24.76	3.9	28.66
		QPSK	1/Inner right	25.16	3.9	29.06
		16QAM	1/Inner right	24.23	3.9	28.13
		64QAM	1/Mid	22.71	3.9	26.61
		256QAM	1/edge left	20.39	3.9	24.29
	3 750.00	$\pi/2$ BPSK	1/inner left	25.08	3.9	28.98
		QPSK	1/inner left	25.17	3.9	29.07
		16QAM	1/Inner right	23.88	3.9	27.78
		64QAM	1/Mid	22.74	3.9	26.64
		256QAM	1/Mid	20.47	3.9	24.37
	3 795.00	$\pi/2$ BPSK	1/Inner right	25.05	3.9	28.95
		QPSK	1/Inner right	25.28	3.9	29.18
		16QAM	1/Mid	24.11	3.9	28.01
		64QAM	1/inner left	22.26	3.9	26.16
		256QAM	1/inner left	20.57	3.9	24.47

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	QPSK	1/Inner right	19.67	19.08	22.40	3.6	26.00
		16QAM	1/Inner right	19.24	18.46	21.88	3.6	25.48
		64QAM	1/Inner right	17.72	17.14	20.45	3.6	24.05
		256QAM	1/Inner right	14.71	13.97	17.37	3.6	20.97
90	3 745.02	QPSK	1/Inner right	19.73	19.02	22.40	3.6	26.00
		16QAM	1/Inner right	19.08	18.47	21.80	3.6	25.40
		64QAM	1/edge right	17.66	16.95	20.33	3.6	23.93
		256QAM	1/Inner right	14.74	14.04	17.41	3.6	21.01
	3 750.00	QPSK	1/Inner right	19.63	18.95	22.31	3.6	25.91
		16QAM	1/Inner right	19.26	18.58	21.94	3.6	25.54
		64QAM	1/Inner right	17.87	16.98	20.46	3.6	24.06
		256QAM	1/Inner right	15.01	14.01	17.55	3.6	21.15
	3 754.98	QPSK	1/Mid	19.50	19.07	22.30	3.6	25.90
		16QAM	1/Inner right	19.16	18.32	21.77	3.6	25.37
		64QAM	1/edge right	17.67	16.91	20.32	3.6	23.92
		256QAM	1/Inner right	14.74	14.00	17.40	3.6	21.00
80	3 740.01	QPSK	1/Mid	19.53	19.54	22.55	3.6	26.15
		16QAM	1/Mid	18.76	18.57	21.68	3.6	25.28
		64QAM	1/edge right	17.42	16.92	20.19	3.6	23.79
		256QAM	1/Mid	14.35	14.21	17.29	3.6	20.89
	3 750.00	QPSK	1/Inner right	19.63	18.92	22.30	3.6	25.90
		16QAM	1/Mid	19.01	18.62	21.83	3.6	25.43
		64QAM	1/Mid	17.36	17.06	20.22	3.6	23.82
		256QAM	1/edge right	14.51	13.96	17.25	3.6	20.85
	3 759.99	QPSK	1/Inner right	19.71	18.83	22.30	3.6	25.90
		16QAM	1/Inner right	19.26	18.48	21.90	3.6	25.50
		64QAM	1/Inner right	17.79	16.86	20.36	3.6	23.96
		256QAM	1/Inner right	14.67	14.04	17.38	3.6	20.98
70	3 735.00	QPSK	1/Mid	19.15	19.11	22.14	3.6	25.74
		16QAM	1/Inner right	18.85	18.31	21.60	3.6	25.20
		64QAM	1/edge right	17.37	17.00	20.20	3.6	23.80
		256QAM	1/edge right	14.41	14.08	17.26	3.6	20.86
	3 750.00	QPSK	1/Inner right	19.56	18.78	22.20	3.6	25.80
		16QAM	1/Inner right	18.97	18.42	21.71	3.6	25.31
		64QAM	1/Mid	17.19	17.06	20.14	3.6	23.74
		256QAM	1/Mid	14.52	13.99	17.27	3.6	20.87
	3 765.00	QPSK	1/inner left	19.30	19.29	22.31	3.6	25.91
		16QAM	1/Inner right	19.17	18.20	21.72	3.6	25.32
		64QAM	1/edge right	17.61	16.72	20.20	3.6	23.80
		256QAM	1/Mid	14.76	14.25	17.52	3.6	21.12

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	QPSK	1/Inner right	19.60	19.16	22.40	3.6	26.00
		16QAM	1/Mid	18.87	18.62	21.76	3.6	25.36
		64QAM	1/Inner right	17.55	17.07	20.33	3.6	23.93
		256QAM	1/Inner right	14.56	14.49	17.54	3.6	21.14
	3 750.00	QPSK	1/Mid	19.49	19.37	22.44	3.6	26.04
		16QAM	1/Inner right	19.38	18.89	22.15	3.6	25.75
		64QAM	1/Inner right	17.43	17.17	20.31	3.6	23.91
		256QAM	1/Inner right	14.55	14.09	17.34	3.6	20.94
	3 769.98	QPSK	1/Mid	19.81	19.22	22.54	3.6	26.14
		16QAM	1/Inner right	19.56	18.45	22.05	3.6	25.65
		64QAM	1/Mid	17.74	17.20	20.49	3.6	24.09
		256QAM	1/Mid	14.75	14.31	17.55	3.6	21.15
50	3 725.01	QPSK	1/inner left	19.16	19.18	22.18	3.6	25.78
		16QAM	1/Inner right	18.82	18.62	21.73	3.6	25.33
		64QAM	1/Inner right	17.44	17.08	20.27	3.6	23.87
		256QAM	1/edge right	14.65	14.36	17.52	3.6	21.12
	3 750.00	QPSK	1/Inner right	19.70	19.10	22.42	3.6	26.02
		16QAM	1/Inner right	19.05	18.68	21.88	3.6	25.48
		64QAM	1/edge right	17.60	17.14	20.39	3.6	23.99
		256QAM	1/Mid	14.66	14.22	17.46	3.6	21.06
	3 774.99	QPSK	1/Inner right	19.76	19.01	22.41	3.6	26.01
		16QAM	1/inner left	19.04	18.79	21.93	3.6	25.53
		64QAM	1/edge right	18.00	17.00	20.54	3.6	24.14
		256QAM	1/Mid	14.72	14.34	17.54	3.6	21.14
40	3 720.00	QPSK	1/Inner right	19.58	19.55	22.58	3.6	26.18
		16QAM	1/Inner right	19.30	18.94	22.13	3.6	25.73
		64QAM	1/Inner right	17.76	17.54	20.66	3.6	24.26
		256QAM	1/Inner right	14.77	14.25	17.53	3.6	21.13
	3 750.00	QPSK	1/Inner right	19.90	19.38	22.66	3.6	26.26
		16QAM	1/Inner right	19.43	18.88	22.17	3.6	25.77
		64QAM	1/edge left	17.85	17.57	20.72	3.6	24.32
		256QAM	1/edge left	14.74	14.52	17.64	3.6	21.24
	3 780.00	QPSK	1/Inner right	20.32	19.18	22.80	3.6	26.40
		16QAM	1/inner left	19.77	18.99	22.41	3.6	26.01
		64QAM	1/edge left	17.89	17.81	20.86	3.6	24.46
		256QAM	1/Inner right	15.28	14.71	18.01	3.6	21.61

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	QPSK	1/Mid	19.53	19.30	22.43	3.6	26.03
		16QAM	1/Mid	18.86	18.66	21.77	3.6	25.37
		64QAM	1/Inner right	17.74	17.45	20.61	3.6	24.21
		256QAM	1/Inner right	14.81	14.51	17.67	3.6	21.27
	3 750.00	QPSK	1/Inner right	19.66	19.54	22.61	3.6	26.21
		16QAM	1/Inner right	19.33	18.71	22.04	3.6	25.64
		64QAM	1/edge right	17.77	17.40	20.60	3.6	24.20
		256QAM	1/edge right	14.96	14.38	17.69	3.6	21.29
	3 785.01	QPSK	1/Mid	19.93	19.08	22.54	3.6	26.14
		16QAM	1/Mid	19.94	18.37	22.24	3.6	25.84
		64QAM	1/edge right	18.15	17.42	20.81	3.6	24.41
		256QAM	1/edge right	15.10	14.78	17.95	3.6	21.55
20	3 710.01	QPSK	1/Inner right	19.44	19.04	22.25	3.6	25.85
		16QAM	1/Inner right	18.50	18.60	21.56	3.6	25.16
		64QAM	1/edge right	17.30	17.32	20.32	3.6	23.92
		256QAM	1/edge right	13.87	14.56	17.24	3.6	20.84
	3 750.00	QPSK	1/Mid	19.68	19.61	22.66	3.6	26.26
		16QAM	1/Inner right	19.32	18.84	22.10	3.6	25.70
		64QAM	1/edge left	17.79	17.46	20.64	3.6	24.24
		256QAM	1/Mid	14.54	14.91	17.74	3.6	21.34
	3 789.99	QPSK	1/Mid	20.04	19.03	22.57	3.6	26.17
		16QAM	1/Inner right	19.98	18.55	22.33	3.6	25.93
		64QAM	1/edge right	18.41	17.41	20.95	3.6	24.55
		256QAM	1/edge right	15.21	14.32	17.80	3.6	21.40
15	3 707.52	QPSK	1/Mid	19.21	19.38	22.31	3.6	25.91
		16QAM	1/inner left	18.68	18.91	21.81	3.6	25.41
		64QAM	1/Inner right	17.80	17.55	20.69	3.6	24.29
		256QAM	1/Mid	14.41	14.16	17.30	3.6	20.90
	3 750.00	QPSK	1/inner left	20.27	19.59	22.95	3.6	26.55
		16QAM	1/inner left	18.85	19.45	22.17	3.6	25.77
		64QAM	1/inner left	17.96	17.47	20.73	3.6	24.33
		256QAM	1/Inner right	14.58	14.74	17.67	3.6	21.27
	3 792.48	QPSK	1/Inner right	20.20	19.45	22.85	3.6	26.45
		16QAM	1/inner left	19.72	19.07	22.42	3.6	26.02
		64QAM	1/Inner right	18.31	17.57	20.97	3.6	24.57
		256QAM	1/edge left	15.69	14.21	18.02	3.6	21.62
10	3 705.00	QPSK	1/Mid	19.30	18.83	22.08	3.6	25.68
		16QAM	1/Inner right	18.88	18.36	21.64	3.6	25.24
		64QAM	1/inner left	17.27	17.00	20.15	3.6	23.75
		256QAM	1/edge left	14.43	14.46	17.46	3.6	21.06
	3 750.00	QPSK	1/Mid	19.77	18.88	22.36	3.6	25.96
		16QAM	1/inner left	18.79	18.72	21.77	3.6	25.37
		64QAM	1/Inner right	17.88	17.68	20.79	3.6	24.39
		256QAM	1/Mid	14.93	14.41	17.69	3.6	21.29
	3 795.00	QPSK	1/Inner right	19.85	18.96	22.44	3.6	26.04
		16QAM	1/Mid	19.47	18.70	22.11	3.6	25.71
		64QAM	1/inner left	18.02	17.13	20.61	3.6	24.21
		256QAM	1/Inner right	15.10	14.13	17.65	3.6	21.25

7.1.17. NR Band n77 3 450 ~ 3 550 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	$\pi/2$ BPSK	1/Mid	24.68	3.2	27.88
		QPSK	1/Mid	24.75	3.2	27.95
		16QAM	1/Mid	23.54	3.2	26.74
		64QAM	1/Mid	22.31	3.2	25.51
		256QAM	1/Mid	19.93	3.2	23.13
90	3 495.00	$\pi/2$ BPSK	1/Mid	24.64	3.2	27.84
		QPSK	1/Mid	24.72	3.2	27.92
		16QAM	1/Mid	23.80	3.2	27.00
		64QAM	1/Mid	22.15	3.2	25.35
		256QAM	1/Mid	20.24	3.2	23.44
	3 500.01	$\pi/2$ BPSK	1/Mid	24.58	3.2	27.78
		QPSK	1/Mid	24.58	3.2	27.78
		16QAM	1/Mid	23.77	3.2	26.97
		64QAM	1/Mid	22.16	3.2	25.36
		256QAM	1/Mid	19.91	3.2	23.11
	3 504.99	$\pi/2$ BPSK	1/Mid	24.60	3.2	27.80
		QPSK	1/Mid	24.58	3.2	27.78
		16QAM	1/Mid	23.62	3.2	26.82
		64QAM	1/Mid	21.67	3.2	24.87
		256QAM	1/Mid	20.28	3.2	23.48
80	3 490.02	$\pi/2$ BPSK	1/Mid	24.71	3.2	27.91
		QPSK	1/Mid	24.78	3.2	27.98
		16QAM	1/Mid	23.53	3.2	26.73
		64QAM	1/Mid	22.42	3.2	25.62
		256QAM	1/Mid	20.16	3.2	23.36
	3 500.01	$\pi/2$ BPSK	1/Mid	24.59	3.2	27.79
		QPSK	1/Mid	24.54	3.2	27.74
		16QAM	1/Mid	23.70	3.2	26.90
		64QAM	1/Mid	22.01	3.2	25.21
		256QAM	1/inner left	20.33	3.2	23.53
	3 510.00	$\pi/2$ BPSK	1/inner left	24.51	3.2	27.71
		QPSK	1/inner left	24.61	3.2	27.81
		16QAM	1/inner left	23.55	3.2	26.75
		64QAM	1/inner left	22.10	3.2	25.30
		256QAM	1/edge left	20.06	3.2	23.26
70	3 485.01	$\pi/2$ BPSK	1/Mid	24.62	3.2	27.82
		QPSK	1/Mid	24.59	3.2	27.79
		16QAM	1/Mid	23.79	3.2	26.99
		64QAM	1/Inner right	22.16	3.2	25.36
		256QAM	1/Inner right	20.08	3.2	23.28
	3 500.01	$\pi/2$ BPSK	1/Mid	24.67	3.2	27.87
		QPSK	1/Mid	24.69	3.2	27.89
		16QAM	1/Mid	23.68	3.2	26.88
		64QAM	1/Mid	22.17	3.2	25.37
		256QAM	1/Mid	20.12	3.2	23.32
	3 515.01	$\pi/2$ BPSK	1/inner left	24.72	3.2	27.92
		QPSK	1/inner left	24.68	3.2	27.88
		16QAM	1/inner left	23.75	3.2	26.95
		64QAM	1/inner left	21.73	3.2	24.93
		256QAM	1/edge left	20.30	3.2	23.50

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	$\pi/2$ BPSK	1/Mid	24.87	3.2	28.07
		QPSK	1/Mid	24.76	3.2	27.96
		16QAM	1/Mid	23.70	3.2	26.90
		64QAM	1/Mid	22.73	3.2	25.93
		256QAM	1/Mid	20.31	3.2	23.51
	3 500.01	$\pi/2$ BPSK	1/inner left	24.68	3.2	27.88
		QPSK	1/Mid	24.73	3.2	27.93
		16QAM	1/inner left	23.93	3.2	27.13
		64QAM	1/Mid	22.17	3.2	25.37
		256QAM	1/Mid	20.55	3.2	23.75
	3 519.99	$\pi/2$ BPSK	1/inner left	24.62	3.2	27.82
		QPSK	1/inner left	24.64	3.2	27.84
		16QAM	1/inner left	23.55	3.2	26.75
		64QAM	1/inner left	22.25	3.2	25.45
		256QAM	1/inner left	20.18	3.2	23.38
50	3 475.02	$\pi/2$ BPSK	1/Mid	24.71	3.2	27.91
		QPSK	1/Mid	24.71	3.2	27.91
		16QAM	1/inner left	23.94	3.2	27.14
		64QAM	1/Inner right	22.21	3.2	25.41
		256QAM	1/Inner right	20.37	3.2	23.57
	3 500.01	$\pi/2$ BPSK	1/inner left	24.94	3.2	28.14
		QPSK	1/inner left	24.79	3.2	27.99
		16QAM	1/inner left	23.96	3.2	27.16
		64QAM	1/inner left	22.24	3.2	25.44
		256QAM	1/Mid	20.20	3.2	23.40
	3 525.00	$\pi/2$ BPSK	1/inner left	24.89	3.2	28.09
		QPSK	1/inner left	24.79	3.2	27.99
		16QAM	1/inner left	23.85	3.2	27.05
		64QAM	1/inner left	21.87	3.2	25.07
		256QAM	1/edge left	20.68	3.2	23.88
40	3 470.01	$\pi/2$ BPSK	1/Inner right	25.04	3.2	28.24
		QPSK	1/Inner right	25.06	3.2	28.26
		16QAM	1/Inner right	24.13	3.2	27.33
		64QAM	1/Inner right	23.08	3.2	26.28
		256QAM	1/edge right	20.84	3.2	24.04
	3 500.01	$\pi/2$ BPSK	1/inner left	24.99	3.2	28.19
		QPSK	1/inner left	25.17	3.2	28.37
		16QAM	1/inner left	24.34	3.2	27.54
		64QAM	1/inner left	22.59	3.2	25.79
		256QAM	1/inner left	21.03	3.2	24.23
	3 529.98	$\pi/2$ BPSK	1/inner left	24.98	3.2	28.18
		QPSK	1/inner left	25.04	3.2	28.24
		16QAM	1/inner left	23.73	3.2	26.93
		64QAM	1/inner left	22.47	3.2	25.67
		256QAM	1/Mid	20.37	3.2	23.57

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	$\pi/2$ BPSK	1/Inner right	25.06	3.2	28.26
		QPSK	1/Inner right	25.33	3.2	28.53
		16QAM	1/Inner right	24.32	3.2	27.52
		64QAM	1/Inner right	22.53	3.2	25.73
		256QAM	1/Inner right	20.81	3.2	24.01
	3 500.01	$\pi/2$ BPSK	1/inner left	25.16	3.2	28.36
		QPSK	1/inner left	25.22	3.2	28.42
		16QAM	1/inner left	24.24	3.2	27.44
		64QAM	1/inner left	22.91	3.2	26.11
		256QAM	1/Mid	20.68	3.2	23.88
	3 534.99	$\pi/2$ BPSK	1/inner left	25.04	3.2	28.24
		QPSK	1/inner left	24.81	3.2	28.01
		16QAM	1/inner left	24.12	3.2	27.32
		64QAM	1/inner left	21.83	3.2	25.03
		256QAM	1/inner left	20.32	3.2	23.52
20	3 460.01	$\pi/2$ BPSK	1/Inner right	25.09	3.2	28.29
		QPSK	1/Inner right	24.97	3.2	28.17
		16QAM	1/Inner right	24.15	3.2	27.35
		64QAM	1/Inner right	22.97	3.2	26.17
		256QAM	1/edge left	20.58	3.2	23.78
	3 500.01	$\pi/2$ BPSK	1/inner left	25.02	3.2	28.22
		QPSK	1/inner left	24.96	3.2	28.16
		16QAM	1/inner left	24.12	3.2	27.32
		64QAM	1/Mid	22.35	3.2	25.55
		256QAM	1/edge left	20.58	3.2	23.78
	3 540.00	$\pi/2$ BPSK	1/inner left	24.57	3.2	27.77
		QPSK	1/inner left	24.58	3.2	27.78
		16QAM	1/inner left	23.77	3.2	26.97
		64QAM	1/inner left	22.01	3.2	25.21
		256QAM	1/edge left	20.10	3.2	23.30
15	3 457.50	$\pi/2$ BPSK	1/Inner right	24.93	3.2	28.13
		QPSK	1/Inner right	24.83	3.2	28.03
		16QAM	1/Inner right	23.32	3.2	26.52
		64QAM	1/Inner right	22.79	3.2	25.99
		256QAM	1/Inner right	20.87	3.2	24.07
	3 500.01	$\pi/2$ BPSK	1/inner left	24.68	3.2	27.88
		QPSK	1/inner left	24.74	3.2	27.94
		16QAM	1/inner left	23.68	3.2	26.88
		64QAM	1/inner left	22.75	3.2	25.95
		256QAM	1/inner left	20.55	3.2	23.75
	3 542.49	$\pi/2$ BPSK	1/inner left	24.39	3.2	27.59
		QPSK	1/inner left	24.27	3.2	27.47
		16QAM	1/inner left	23.76	3.2	26.96
		64QAM	1/inner left	21.91	3.2	25.11
		256QAM	1/inner left	20.20	3.2	23.40

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	$\pi/2$ BPSK	1/Inner right	24.84	3.2	28.04
		QPSK	1/Inner right	24.90	3.2	28.10
		16QAM	1/Mid	23.84	3.2	27.04
		64QAM	1/Inner right	22.69	3.2	25.89
		256QAM	1/Inner right	20.22	3.2	23.42
	3 500.01	$\pi/2$ BPSK	1/inner left	24.67	3.2	27.87
		QPSK	1/Mid	25.02	3.2	28.22
		16QAM	1/Mid	23.96	3.2	27.16
		64QAM	1/Inner right	22.43	3.2	25.63
		256QAM	1/edge left	20.27	3.2	23.47
	3 545.01	$\pi/2$ BPSK	1/Mid	24.38	3.2	27.58
		QPSK	1/inner left	24.53	3.2	27.73
		16QAM	1/inner left	23.46	3.2	26.66
		64QAM	1/Inner right	22.03	3.2	25.23
		256QAM	1/inner left	19.57	3.2	22.77

MIMO: External Antenna 1 + External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 500.01	QPSK	1/Inner right	20.15	19.60	22.89	2.8	25.69
		16QAM	1/Inner right	19.73	19.13	22.45	2.8	25.25
		64QAM	1/Mid	17.58	18.60	21.13	2.8	23.93
		256QAM	1/Inner right	15.10	14.87	18.00	2.8	20.80
90	3 495.00	QPSK	1/Inner right	20.00	19.95	22.99	2.8	25.79
		16QAM	1/Mid	18.87	19.77	22.35	2.8	25.15
		64QAM	1/Inner right	17.94	17.91	20.94	2.8	23.74
		256QAM	1/Mid	14.52	15.71	18.17	2.8	20.97
	3 500.01	QPSK	1/Inner right	20.11	19.92	23.03	2.8	25.83
		16QAM	1/Inner right	19.62	19.44	22.54	2.8	25.34
		64QAM	1/Inner right	17.97	17.94	20.97	2.8	23.77
		256QAM	1/edge right	14.94	15.04	18.00	2.8	20.80
	3 504.99	QPSK	1/Mid	19.63	20.40	23.04	2.8	25.84
		16QAM	1/Mid	19.29	19.62	22.47	2.8	25.27
		64QAM	1/Mid	17.72	18.15	20.95	2.8	23.75
		256QAM	1/Inner right	15.05	15.05	18.06	2.8	20.86
80	3 490.02	QPSK	1/Mid	19.56	20.24	22.92	2.8	25.72
		16QAM	1/Inner right	19.35	19.74	22.56	2.8	25.36
		64QAM	1/Mid	17.34	18.48	20.96	2.8	23.76
		256QAM	1/edge left	14.70	15.41	18.08	2.8	20.88
	3 500.01	QPSK	1/Inner right	20.24	19.78	23.03	2.8	25.83
		16QAM	1/Mid	19.00	20.07	22.58	2.8	25.38
		64QAM	1/inner left	17.67	18.38	21.05	2.8	23.85
		256QAM	1/inner left	14.42	15.59	18.05	2.8	20.85
	3 510.00	QPSK	1/Mid	19.59	20.21	22.92	2.8	25.72
		16QAM	1/Mid	19.33	19.73	22.54	2.8	25.34
		64QAM	1/Mid	17.79	18.26	21.04	2.8	23.84
		256QAM	1/Mid	14.87	15.25	18.07	2.8	20.87
70	3 485.01	QPSK	1/Inner right	19.71	20.41	23.08	2.8	25.88
		16QAM	1/Mid	19.01	19.71	22.38	2.8	25.18
		64QAM	1/edge left	17.64	18.23	20.96	2.8	23.76
		256QAM	1/edge left	14.55	15.43	18.02	2.8	20.82
	3 500.01	QPSK	1/Mid	19.49	20.39	22.97	2.8	25.77
		16QAM	1/Inner right	19.37	19.24	22.32	2.8	25.12
		64QAM	1/edge right	17.79	18.21	21.02	2.8	23.82
		256QAM	1/edge right	15.03	14.93	17.99	2.8	20.79
	3 515.01	QPSK	1/Mid	19.73	20.21	22.99	2.8	25.79
		16QAM	1/Inner right	19.68	19.28	22.49	2.8	25.29
		64QAM	1/Inner right	18.05	18.09	21.08	2.8	23.88
		256QAM	1/edge left	14.60	15.33	17.99	2.8	20.79

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 480.00	QPSK	1/Inner right	19.82	20.30	23.08	2.8	25.88
		16QAM	1/Mid	19.09	20.09	22.63	2.8	25.43
		64QAM	1/edge left	17.62	18.54	21.11	2.8	23.91
		256QAM	1/Mid	14.68	15.89	18.34	2.8	21.14
	3 500.01	QPSK	1/inner left	19.92	20.49	23.22	2.8	26.02
		16QAM	1/Mid	19.27	20.04	22.68	2.8	25.48
		64QAM	1/Mid	17.79	18.49	21.16	2.8	23.96
		256QAM	1/Mid	14.63	15.61	18.16	2.8	20.96
	3 519.99	QPSK	1/Inner right	20.35	19.73	23.06	2.8	25.86
		16QAM	1/inner left	19.19	19.86	22.55	2.8	25.35
		64QAM	1/inner left	17.64	18.60	21.16	2.8	23.96
		256QAM	1/Mid	14.98	15.48	18.25	2.8	21.05
50	3 475.02	QPSK	1/Mid	19.47	20.52	23.04	2.8	25.84
		16QAM	1/Inner right	19.33	20.03	22.70	2.8	25.50
		64QAM	1/edge left	17.90	18.41	21.17	2.8	23.97
		256QAM	1/edge left	14.70	15.46	18.11	2.8	20.91
	3 500.01	QPSK	1/Inner right	20.09	20.38	23.25	2.8	26.05
		16QAM	1/Mid	19.08	20.15	22.66	2.8	25.46
		64QAM	1/Mid	17.62	18.81	21.27	2.8	24.07
		256QAM	1/edge left	14.60	15.73	18.21	2.8	21.01
	3 525.00	QPSK	1/inner left	19.70	20.55	23.16	2.8	25.96
		16QAM	1/inner left	19.18	19.78	22.50	2.8	25.30
		64QAM	1/inner left	17.81	18.73	21.30	2.8	24.10
		256QAM	1/inner left	14.81	15.67	18.27	2.8	21.07
40	3 470.01	QPSK	1/Inner right	19.82	20.76	23.33	2.8	26.13
		16QAM	1/inner left	19.43	20.32	22.91	2.8	25.71
		64QAM	1/inner left	17.98	18.73	21.38	2.8	24.18
		256QAM	1/Inner right	14.96	15.88	18.45	2.8	21.25
	3 500.01	QPSK	1/Inner right	20.46	20.64	23.56	2.8	26.36
		16QAM	1/Inner right	19.80	20.05	22.94	2.8	25.74
		64QAM	1/Mid	18.18	18.82	21.52	2.8	24.32
		256QAM	1/Inner right	15.40	15.68	18.55	2.8	21.35
	3 529.98	QPSK	1/Inner right	20.32	20.25	23.30	2.8	26.10
		16QAM	1/inner left	19.65	19.97	22.82	2.8	25.62
		64QAM	1/Inner right	18.07	18.53	21.32	2.8	24.12
		256QAM	1/inner left	15.04	15.94	18.52	2.8	21.32

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 465.00	QPSK	1/inner left	19.71	20.31	23.03	2.8	25.83
		16QAM	1/inner left	19.39	20.22	22.84	2.8	25.64
		64QAM	1/Mid	18.08	18.63	21.37	2.8	24.17
		256QAM	1/inner left	15.26	15.99	18.65	2.8	21.45
	3 500.01	QPSK	1/Inner right	19.70	20.65	23.21	2.8	26.01
		16QAM	1/Inner right	19.41	19.95	22.70	2.8	25.50
		64QAM	1/Inner right	18.36	18.63	21.51	2.8	24.31
		256QAM	1/Inner right	15.20	15.69	18.46	2.8	21.26
	3 534.99	QPSK	1/Inner right	20.43	20.31	23.38	2.8	26.18
		16QAM	1/inner left	19.39	20.20	22.82	2.8	25.62
		64QAM	1/Inner right	18.32	18.61	21.48	2.8	24.28
		256QAM	1/Inner right	15.76	15.56	18.67	2.8	21.47
20	3 460.01	QPSK	1/Inner right	18.21	19.36	21.83	2.8	24.63
		16QAM	1/inner left	17.97	18.85	21.44	2.8	24.24
		64QAM	1/inner left	16.50	17.41	19.99	2.8	22.79
		256QAM	1/inner left	13.48	14.22	16.88	2.8	19.68
	3 500.01	QPSK	1/Inner right	18.46	18.78	21.63	2.8	24.43
		16QAM	1/Inner right	18.03	18.58	21.32	2.8	24.12
		64QAM	1/inner left	16.23	17.17	19.74	2.8	22.54
		256QAM	1/Inner right	13.22	14.29	16.80	2.8	19.60
	3 540.00	QPSK	1/inner left	18.44	18.87	21.67	2.8	24.47
		16QAM	1/Mid	18.25	18.36	21.32	2.8	24.12
		64QAM	1/inner left	16.73	16.76	19.76	2.8	22.56
		256QAM	1/edge left	13.86	13.63	16.76	2.8	19.56
15	3 457.50	QPSK	1/Inner right	18.30	19.30	21.84	2.8	24.64
		16QAM	1/Mid	17.61	18.46	21.07	2.8	23.87
		64QAM	1/edge left	17.08	16.90	20.00	2.8	22.80
		256QAM	1/edge left	13.45	14.11	16.80	2.8	19.60
	3 500.01	QPSK	1/Inner right	17.97	19.35	21.72	2.8	24.52
		16QAM	1/inner left	17.71	18.87	21.34	2.8	24.14
		64QAM	1/edge right	16.36	17.36	19.90	2.8	22.70
		256QAM	1/inner left	13.71	14.07	16.90	2.8	19.70
	3 542.49	QPSK	1/inner left	18.29	18.86	21.59	2.8	24.39
		16QAM	1/Mid	18.33	18.07	21.21	2.8	24.01
		64QAM	1/Inner right	16.68	16.81	19.76	2.8	22.56
		256QAM	1/Mid	13.78	14.19	17.00	2.8	19.80

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Ext Ant1 Conducted Output Power (dBm)	Ext Ant2 Conducted Output Power (dBm)	Summed Conducted Output Power	Directional Antenna Gain(dBi)	EIRP (dBm)
10	3 455.01	QPSK	1/inner left	18.19	18.72	21.47	2.8	24.27
		16QAM	1/Mid	17.73	18.20	20.98	2.8	23.78
		64QAM	1/Inner right	16.49	16.88	19.70	2.8	22.50
		256QAM	1/edge left	13.44	13.51	16.49	2.8	19.29
	3 500.01	QPSK	1/inner left	18.42	18.99	21.72	2.8	24.52
		16QAM	1/Mid	18.19	18.26	21.24	2.8	24.04
		64QAM	1/Inner right	16.23	17.09	19.69	2.8	22.49
		256QAM	1/edge left	13.24	14.09	16.70	2.8	19.50
	3 545.01	QPSK	1/Inner right	18.99	18.66	21.84	2.8	24.64
		16QAM	1/Mid	17.93	18.33	21.14	2.8	23.94
		64QAM	1/edge right	17.00	16.72	19.87	2.8	22.67
		256QAM	1/Inner right	14.06	13.50	16.80	2.8	19.60

7.1.18. NR Band n77 3 700 ~ 3 980 MHz band

SISO: External Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	$\pi/2$ BPSK	1/Mid	25.01	3.9	28.91
		QPSK	1/Mid	24.82	3.9	28.72
		16QAM	1/Mid	23.85	3.9	27.75
		64QAM	1/Mid	22.51	3.9	26.41
		256QAM	1/Inner right	20.39	3.9	24.29
	3 840.00	$\pi/2$ BPSK	1/Mid	25.01	3.9	28.91
		QPSK	1/Mid	24.92	3.9	28.82
		16QAM	1/inner left	23.91	3.9	27.81
		64QAM	1/Mid	22.66	3.9	26.56
		256QAM	1/Mid	20.57	3.9	24.47
	3 930.00	$\pi/2$ BPSK	1/inner left	24.80	3.9	28.70
		QPSK	1/inner left	24.77	3.9	28.67
		16QAM	1/inner left	23.84	3.9	27.74
		64QAM	1/inner left	22.16	3.9	26.06
		256QAM	1/edge left	20.18	3.9	24.08
90	3 745.02	$\pi/2$ BPSK	1/Mid	24.90	3.9	28.80
		QPSK	1/Mid	24.89	3.9	28.79
		16QAM	1/Mid	24.15	3.9	28.05
		64QAM	1/Inner right	22.27	3.9	26.17
		256QAM	1/Mid	20.31	3.9	24.21
	3 840.00	$\pi/2$ BPSK	1/Mid	24.80	3.9	28.70
		QPSK	1/Mid	24.73	3.9	28.63
		16QAM	1/Mid	23.95	3.9	27.85
		64QAM	1/Mid	22.22	3.9	26.12
		256QAM	1/Inner right	20.49	3.9	24.39
	3 934.98	$\pi/2$ BPSK	1/inner left	24.52	3.9	28.42
		QPSK	1/inner left	24.63	3.9	28.53
		16QAM	1/inner left	23.77	3.9	27.67
		64QAM	1/inner left	22.10	3.9	26.00
		256QAM	1/edge left	20.04	3.9	23.94
80	3 740.01	$\pi/2$ BPSK	1/Mid	24.88	3.9	28.78
		QPSK	1/Mid	24.96	3.9	28.86
		16QAM	1/Mid	23.77	3.9	27.67
		64QAM	1/Mid	22.44	3.9	26.34
		256QAM	1/Inner right	20.43	3.9	24.33
	3 840.00	$\pi/2$ BPSK	1/inner left	24.80	3.9	28.70
		QPSK	1/inner left	24.85	3.9	28.75
		16QAM	1/inner left	24.15	3.9	28.05
		64QAM	1/inner left	22.55	3.9	26.45
		256QAM	1/Mid	20.43	3.9	24.33
	3 939.99	$\pi/2$ BPSK	1/inner left	24.64	3.9	28.54
		QPSK	1/inner left	24.66	3.9	28.56
		16QAM	1/inner left	23.91	3.9	27.81
		64QAM	1/inner left	21.98	3.9	25.88
		256QAM	1/edge left	20.16	3.9	24.06

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
70	3 735.00	$\pi/2$ BPSK	1/Mid	24.96	3.9	28.86
		QPSK	1/Mid	24.91	3.9	28.81
		16QAM	1/Mid	23.77	3.9	27.67
		64QAM	1/Inner right	22.79	3.9	26.69
		256QAM	1/Mid	20.40	3.9	24.30
	3 840.00	$\pi/2$ BPSK	1/inner left	24.81	3.9	28.71
		QPSK	1/inner left	24.86	3.9	28.76
		16QAM	1/inner left	24.06	3.9	27.96
		64QAM	1/inner left	22.40	3.9	26.30
		256QAM	1/edge left	20.49	3.9	24.39
	3 945.00	$\pi/2$ BPSK	1/inner left	24.56	3.9	28.46
		QPSK	1/inner left	24.72	3.9	28.62
		16QAM	1/inner left	23.76	3.9	27.66
		64QAM	1/inner left	22.16	3.9	26.06
		256QAM	1/inner left	20.38	3.9	24.28
60	3 730.02	$\pi/2$ BPSK	1/Mid	24.97	3.9	28.87
		QPSK	1/Mid	25.00	3.9	28.90
		16QAM	1/Inner right	24.07	3.9	27.97
		64QAM	1/Inner right	22.82	3.9	26.72
		256QAM	1/Inner right	20.49	3.9	24.39
	3 840.00	$\pi/2$ BPSK	1/Inner right	24.90	3.9	28.80
		QPSK	1/Mid	24.85	3.9	28.75
		16QAM	1/Inner right	24.06	3.9	27.96
		64QAM	1/Inner right	22.52	3.9	26.42
		256QAM	1/inner left	20.52	3.9	24.42
	3 949.98	$\pi/2$ BPSK	1/inner left	24.58	3.9	28.48
		QPSK	1/inner left	24.59	3.9	28.49
		16QAM	1/inner left	23.52	3.9	27.42
		64QAM	1/inner left	22.34	3.9	26.24
		256QAM	1/edge left	20.03	3.9	23.93
50	3 725.01	$\pi/2$ BPSK	1/Inner right	24.99	3.9	28.89
		QPSK	1/Mid	24.92	3.9	28.82
		16QAM	1/Mid	24.21	3.9	28.11
		64QAM	1/Inner right	22.74	3.9	26.64
		256QAM	1/Mid	20.38	3.9	24.28
	3 840.00	$\pi/2$ BPSK	1/Inner right	24.98	3.9	28.88
		QPSK	1/inner left	24.93	3.9	28.83
		16QAM	1/Mid	24.02	3.9	27.92
		64QAM	1/inner left	22.58	3.9	26.48
		256QAM	1/Mid	20.68	3.9	24.58
	3 954.99	$\pi/2$ BPSK	1/inner left	24.49	3.9	28.39
		QPSK	1/inner left	24.45	3.9	28.35
		16QAM	1/inner left	23.49	3.9	27.39
		64QAM	1/inner left	22.08	3.9	25.98
		256QAM	1/edge left	20.16	3.9	24.06

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
40	3 720.00	$\pi/2$ BPSK	1/Inner right	25.38	3.9	29.28
		QPSK	1/Inner right	25.23	3.9	29.13
		16QAM	1/Inner right	24.39	3.9	28.29
		64QAM	1/Inner right	22.93	3.9	26.83
		256QAM	1/edge right	21.07	3.9	24.97
	3 840.00	$\pi/2$ BPSK	1/inner left	25.11	3.9	29.01
		QPSK	1/Inner right	25.29	3.9	29.19
		16QAM	1/inner left	24.18	3.9	28.08
		64QAM	1/Inner right	22.77	3.9	26.67
		256QAM	1/edge left	20.77	3.9	24.67
	3 960.00	$\pi/2$ BPSK	1/inner left	24.67	3.9	28.57
		QPSK	1/Inner right	24.72	3.9	28.62
		16QAM	1/Mid	23.86	3.9	27.76
		64QAM	1/Inner right	22.23	3.9	26.13
		256QAM	1/edge left	20.66	3.9	24.56
30	3 715.02	$\pi/2$ BPSK	1/Inner right	25.21	3.9	29.11
		QPSK	1/Inner right	25.18	3.9	29.08
		16QAM	1/Inner right	24.17	3.9	28.07
		64QAM	1/Mid	22.53	3.9	26.43
		256QAM	1/Inner right	20.45	3.9	24.35
	3 840.00	$\pi/2$ BPSK	1/Inner right	25.22	3.9	29.12
		QPSK	1/Inner right	25.22	3.9	29.12
		16QAM	1/Inner right	24.21	3.9	28.11
		64QAM	1/inner left	22.74	3.9	26.64
		256QAM	1/inner left	20.62	3.9	24.52
	3 964.98	$\pi/2$ BPSK	1/inner left	24.61	3.9	28.51
		QPSK	1/inner left	24.73	3.9	28.63
		16QAM	1/inner left	23.55	3.9	27.45
		64QAM	1/Mid	22.31	3.9	26.21
		256QAM	1/edge left	20.34	3.9	24.24
20	3 710.01	$\pi/2$ BPSK	1/Inner right	25.04	3.9	28.94
		QPSK	1/inner left	24.99	3.9	28.89
		16QAM	1/Inner right	23.97	3.9	27.87
		64QAM	1/Inner right	22.72	3.9	26.62
		256QAM	1/Inner right	20.53	3.9	24.43
	3 840.00	$\pi/2$ BPSK	1/Mid	25.11	3.9	29.01
		QPSK	1/inner left	25.16	3.9	29.06
		16QAM	1/inner left	24.16	3.9	28.06
		64QAM	1/Inner right	22.88	3.9	26.78
		256QAM	1/inner left	21.26	3.9	25.16
	3 969.99	$\pi/2$ BPSK	1/Inner right	24.58	3.9	28.48
		QPSK	1/Mid	24.52	3.9	28.42
		16QAM	1/inner left	23.67	3.9	27.57
		64QAM	1/inner left	22.39	3.9	26.29
		256QAM	1/Inner right	20.14	3.9	24.04

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Conducted Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)
15	3 707.52	$\pi/2$ BPSK	1/Inner right	25.10	3.9	29.00
		QPSK	1/inner left	25.22	3.9	29.12
		16QAM	1/Inner right	23.95	3.9	27.85
		64QAM	1/Mid	22.54	3.9	26.44
		256QAM	1/Inner right	20.70	3.9	24.60
	3 840.00	$\pi/2$ BPSK	1/inner left	24.89	3.9	28.79
		QPSK	1/Inner right	24.89	3.9	28.79
		16QAM	1/Inner right	23.89	3.9	27.79
		64QAM	1/inner left	22.78	3.9	26.68
		256QAM	1/inner left	20.73	3.9	24.63
	3 972.48	$\pi/2$ BPSK	1/inner left	24.33	3.9	28.23
		QPSK	1/Mid	24.39	3.9	28.29
		16QAM	1/inner left	23.62	3.9	27.52
		64QAM	1/Mid	21.54	3.9	25.44
		256QAM	1/edge left	19.90	3.9	23.80
10	3 705.00	$\pi/2$ BPSK	1/Mid	24.95	3.9	28.85
		QPSK	1/Mid	24.90	3.9	28.80
		16QAM	1/inner left	23.87	3.9	27.77
		64QAM	1/Inner right	22.38	3.9	26.28
		256QAM	1/Mid	20.84	3.9	24.74
	3 840.00	$\pi/2$ BPSK	1/Mid	24.87	3.9	28.77
		QPSK	1/Inner right	24.91	3.9	28.81
		16QAM	1/Mid	24.08	3.9	27.98
		64QAM	1/inner left	22.52	3.9	26.42
		256QAM	1/edge left	20.64	3.9	24.54
	3 975.00	$\pi/2$ BPSK	1/inner left	24.38	3.9	28.28
		QPSK	1/Mid	24.60	3.9	28.50
		16QAM	1/inner left	23.38	3.9	27.28
		64QAM	1/Mid	22.51	3.9	26.41
		256QAM	1/inner left	20.07	3.9	23.97

MIMO: Internal Chip Antenna 1 + Internal Chip Antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
100	3 750.00	QPSK	1/Inner right	19.66	18.96	22.33	3.6	25.93
		16QAM	1/Inner right	19.29	18.40	21.88	3.6	25.48
		64QAM	1/Inner right	17.83	16.80	20.36	3.6	23.96
		256QAM	1/Inner right	14.47	13.80	17.16	3.6	20.76
	3 840.00	QPSK	1/Mid	20.04	19.11	22.61	3.6	26.21
		16QAM	1/Mid	19.24	18.47	21.88	3.6	25.48
		64QAM	1/Inner right	17.90	17.16	20.56	3.6	24.16
		256QAM	1/Mid	14.92	14.49	17.72	3.6	21.32
	3 930.00	QPSK	1/Mid	20.23	18.66	22.53	3.6	26.13
		16QAM	1/inner left	19.53	18.57	22.09	3.6	25.69
		64QAM	1/inner left	17.88	16.79	20.38	3.6	23.98
		256QAM	1/inner left	14.73	14.28	17.52	3.6	21.12
90	3 745.02	QPSK	1/Mid	19.34	18.89	22.13	3.6	25.73
		16QAM	1/Mid	18.94	18.34	21.66	3.6	25.26
		64QAM	1/Inner right	17.60	16.86	20.26	3.6	23.86
		256QAM	1/Inner right	14.52	14.00	17.28	3.6	20.88
	3 840.00	QPSK	1/Mid	20.02	19.01	22.55	3.6	26.15
		16QAM	1/Inner right	19.40	18.52	21.99	3.6	25.59
		64QAM	1/Mid	18.12	16.87	20.55	3.6	24.15
		256QAM	1/edge left	14.75	13.96	17.38	3.6	20.98
	3 934.98	QPSK	1/Mid	20.10	18.66	22.45	3.6	26.05
		16QAM	1/inner left	19.12	18.35	21.76	3.6	25.36
		64QAM	1/Mid	18.11	16.45	20.37	3.6	23.97
		256QAM	1/Mid	15.16	13.76	17.53	3.6	21.13
80	3 740.01	QPSK	1/Mid	19.27	18.90	22.10	3.6	25.70
		16QAM	1/Inner right	19.10	18.64	21.89	3.6	25.49
		64QAM	1/Mid	17.41	17.12	20.28	3.6	23.88
		256QAM	1/Mid	14.33	14.50	17.43	3.6	21.03
	3 840.00	QPSK	1/Mid	20.29	19.26	22.82	3.6	26.42
		16QAM	1/Inner right	19.93	18.40	22.24	3.6	25.84
		64QAM	1/Mid	17.78	17.31	20.56	3.6	24.16
		256QAM	1/Mid	15.07	14.20	17.67	3.6	21.27
	3 939.99	QPSK	1/Mid	20.08	18.62	22.42	3.6	26.02
		16QAM	1/inner left	19.65	18.26	22.02	3.6	25.62
		64QAM	1/inner left	18.07	17.25	20.69	3.6	24.29
		256QAM	1/edge left	15.32	14.22	17.82	3.6	21.42
70	3 735.00	QPSK	1/Mid	19.10	18.91	22.02	3.6	25.62
		16QAM	1/Inner right	19.11	18.24	21.71	3.6	25.31
		64QAM	1/edge right	17.45	16.78	20.14	3.6	23.74
		256QAM	1/Inner right	14.34	14.08	17.22	3.6	20.82
	3 840.00	QPSK	1/Mid	19.96	19.12	22.57	3.6	26.17
		16QAM	1/Inner right	19.33	18.40	21.90	3.6	25.50
		64QAM	1/Mid	17.74	17.12	20.45	3.6	24.05
		256QAM	1/edge left	14.84	14.12	17.51	3.6	21.11
	3 945.00	QPSK	1/inner left	19.97	18.89	22.47	3.6	26.07
		16QAM	1/Mid	19.77	17.93	21.96	3.6	25.56
		64QAM	1/inner left	18.03	16.85	20.49	3.6	24.09
		256QAM	1/edge left	14.87	14.10	17.51	3.6	21.11

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
60	3 730.02	QPSK	1/Inner right	19.37	18.88	22.14	3.6	25.74
		16QAM	1/Mid	18.39	18.55	21.48	3.6	25.08
		64QAM	1/Inner right	17.18	16.99	20.10	3.6	23.70
		256QAM	1/Inner right	14.41	14.26	17.35	3.6	20.95
	3 840.00	QPSK	1/inner left	19.79	18.86	22.36	3.6	25.96
		16QAM	1/Mid	19.80	18.26	22.11	3.6	25.71
		64QAM	1/inner left	17.85	17.08	20.49	3.6	24.09
		256QAM	1/Inner right	15.16	13.92	17.59	3.6	21.19
	3 949.98	QPSK	1/inner left	20.22	18.77	22.57	3.6	26.17
		16QAM	1/Mid	19.59	18.00	21.88	3.6	25.48
		64QAM	1/Mid	17.81	16.85	20.37	3.6	23.97
		256QAM	1/edge left	15.20	13.71	17.53	3.6	21.13
50	3 725.01	QPSK	1/Inner right	19.19	18.86	22.04	3.6	25.64
		16QAM	1/Inner right	18.52	18.61	21.58	3.6	25.18
		64QAM	1/edge right	17.39	17.22	20.32	3.6	23.92
		256QAM	1/edge right	14.18	14.26	17.23	3.6	20.83
	3 840.00	QPSK	1/Inner right	20.11	19.35	22.76	3.6	26.36
		16QAM	1/Inner right	19.69	18.60	22.19	3.6	25.79
		64QAM	1/edge right	18.12	17.01	20.61	3.6	24.21
		256QAM	1/Inner right	15.34	14.01	17.74	3.6	21.34
	3 954.99	QPSK	1/Inner right	20.02	18.69	22.42	3.6	26.02
		16QAM	1/inner left	19.76	18.04	21.99	3.6	25.59
		64QAM	1/inner left	18.34	16.88	20.68	3.6	24.28
		256QAM	1/inner left	15.03	14.24	17.66	3.6	21.26
40	3 720.00	QPSK	1/Inner right	19.61	19.15	22.40	3.6	26.00
		16QAM	1/Inner right	19.01	18.60	21.82	3.6	25.42
		64QAM	1/Inner right	17.66	17.57	20.63	3.6	24.23
		256QAM	1/Inner right	14.61	14.35	17.49	3.6	21.09
	3 840.00	QPSK	1/Inner right	20.53	19.24	22.94	3.6	26.54
		16QAM	1/inner left	19.60	19.05	22.34	3.6	25.94
		64QAM	1/edge right	18.51	17.33	20.97	3.6	24.57
		256QAM	1/edge left	15.40	14.88	18.16	3.6	21.76
	3 960.00	QPSK	1/inner left	20.40	18.68	22.63	3.6	26.23
		16QAM	1/inner left	19.99	18.29	22.23	3.6	25.83
		64QAM	1/inner left	18.47	16.90	20.77	3.6	24.37
		256QAM	1/edge right	15.40	14.01	17.77	3.6	21.37

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB Size/ Offset	Int Ant1 Conducted Output Power(dBm)	Int Ant2 Conducted Output Power(dBm)	Summed Conducted Output Power(dBm)	Directional Antenna Gain(dBi)	EIRP (dBm)
30	3 715.02	QPSK	1/Inner right	19.44	19.23	22.35	3.6	25.95
		16QAM	1/Inner right	18.50	18.51	21.52	3.6	25.12
		64QAM	1/Inner right	17.36	17.16	20.27	3.6	23.87
		256QAM	1/Inner right	14.39	14.43	17.42	3.6	21.02
	3 840.00	QPSK	1/Inner right	20.27	19.46	22.89	3.6	26.49
		16QAM	1/Inner right	19.60	19.00	22.32	3.6	25.92
		64QAM	1/edge right	18.32	17.21	20.81	3.6	24.41
		256QAM	1/Inner right	15.08	14.49	17.81	3.6	21.41
	3 964.98	QPSK	1/inner left	19.98	19.18	22.61	3.6	26.21
		16QAM	1/inner left	19.88	18.39	22.21	3.6	25.81
		64QAM	1/inner left	18.42	16.95	20.76	3.6	24.36
		256QAM	1/inner left	15.47	14.00	17.81	3.6	21.41
20	3 710.01	QPSK	1/Inner right	19.15	19.02	22.10	3.6	25.70
		16QAM	1/inner left	18.83	18.36	21.61	3.6	25.21
		64QAM	1/Inner right	17.39	17.26	20.34	3.6	23.94
		256QAM	1/edge right	14.78	14.45	17.63	3.6	21.23
	3 840.00	QPSK	1/Inner right	20.68	19.36	23.08	3.6	26.68
		16QAM	1/Inner right	19.71	18.87	22.32	3.6	25.92
		64QAM	1/Inner right	18.15	17.79	20.98	3.6	24.58
		256QAM	1/edge left	15.53	14.43	18.03	3.6	21.63
	3 969.99	QPSK	1/inner left	20.34	18.82	22.66	3.6	26.26
		16QAM	1/inner left	20.07	18.20	22.25	3.6	25.85
		64QAM	1/inner left	18.40	16.64	20.62	3.6	24.22
		256QAM	1/edge left	15.43	14.27	17.90	3.6	21.50
15	3 707.52	QPSK	1/Inner right	19.47	19.33	22.41	3.6	26.01
		16QAM	1/Inner right	18.55	18.71	21.64	3.6	25.24
		64QAM	1/edge right	17.32	17.46	20.40	3.6	24.00
		256QAM	1/Mid	14.33	14.91	17.64	3.6	21.24
	3 840.00	QPSK	1/inner left	20.80	19.40	23.17	3.6	26.77
		16QAM	1/inner left	19.95	19.04	22.53	3.6	26.13
		64QAM	1/inner left	18.37	17.83	21.12	3.6	24.72
		256QAM	1/inner left	15.42	14.94	18.20	3.6	21.80
	3 972.48	QPSK	1/inner left	20.25	19.27	22.80	3.6	26.40
		16QAM	1/inner left	19.57	18.17	21.94	3.6	25.54
		64QAM	1/inner left	18.51	16.87	20.78	3.6	24.38
		256QAM	1/inner left	15.17	14.10	17.68	3.6	21.28
10	3 705.00	QPSK	1/Mid	19.27	19.00	22.15	3.6	25.75
		16QAM	1/Mid	18.25	18.77	21.53	3.6	25.13
		64QAM	1/Inner right	17.17	16.78	19.99	3.6	23.59
		256QAM	1/Mid	13.93	13.88	16.92	3.6	20.52
	3 840.00	QPSK	1/Mid	19.86	19.41	22.65	3.6	26.25
		16QAM	1/Inner right	19.67	18.51	22.14	3.6	25.74
		64QAM	1/edge left	18.38	17.20	20.84	3.6	24.44
		256QAM	1/edge left	15.20	14.99	18.11	3.6	21.71
	3 975.00	QPSK	1/Mid	19.96	18.57	22.33	3.6	25.93
		16QAM	1/inner left	20.02	18.17	22.20	3.6	25.80
		64QAM	1/edge left	18.36	16.39	20.50	3.6	24.10
		256QAM	1/Inner right	15.54	13.89	17.80	3.6	21.40

7.3. UNDESIRABLE EMISSIONS (Radiated)

- Test Notes

- 1) The frequency spectrum is examined from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions.
- 2) For Band below 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBd)
For Band above 1GHz:
Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBi)
- 3) Limit
Band n2/5/12/13/14/17/25/26/66/70/71/77/78 = -13dBm
Band n7/38/41 = -25dBm
Band n30 = -40dBm
Limit for 1 559 MHz ~ 1 610 MHz in Band n13/14 = -40dBm/MHz (equivalent isotropically radiated power for wideband signals)

- 5GNR n71

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	673	$\pi/2$ BPSK	1/104	1 364.54	H	-65.62	2.35	-63.27	-13.00	50.27
				2 046.78	V	-55.95	2.41	-53.54	-13.00	40.54
				2 728.54	V	-67.02	4.19	-62.83	-13.00	49.83
				3 408.90	H	-67.51	5.97	-61.54	-13.00	48.54
	680		1/104	1 379.68	H	-64.36	2.46	-61.90	-13.00	48.90
				2 069.32	V	-55.58	2.60	-52.98	-13.00	39.98
				2 785.94	V	-67.45	4.56	-62.89	-13.00	49.89
				3 447.53	H	-68.07	6.07	-62.00	-13.00	49.00
	688		1/1	1 357.46	H	-64.34	2.30	-62.04	-13.00	49.04
				2 036.18	V	-54.26	2.36	-51.90	-13.00	38.90
				2 716.20	V	-66.64	4.12	-62.52	-13.00	49.52
				3 396.01	H	-67.86	5.93	-61.93	-13.00	48.93

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	688	$\pi/2$ BPSK	1/1	1 357.49	H	-65.63	2.30	-63.33	-13.00	50.33
				2 036.06	V	-62.45	2.36	-60.09	-13.00	47.09
				2 715.33	V	-66.75	4.12	-62.63	-13.00	49.63
				3 394.81	H	-67.71	5.93	-61.78	-13.00	48.78

- 5GNR n12

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	706.5	$\pi/2$ BPSK	1/77	1 426.71	H	-52.87	2.93	-49.94	-13.00	36.94
				2 140.07	V	-59.27	3.19	-56.08	-13.00	43.08
				2 852.12	V	-67.59	4.85	-62.74	-13.00	49.74
				3 566.61	H	-67.96	6.23	-61.73	-13.00	48.73
	708.5			1 430.76	H	-52.89	2.97	-49.92	-13.00	36.92
				2 145.98	V	-58.99	3.23	-55.76	-13.00	42.76
				2 859.77	V	-67.39	4.87	-62.52	-13.00	49.52
				3 876.79	H	-68.27	6.39	-61.88	-13.00	48.88
10	704		1/50	1 416.76	H	-52.89	2.81	-50.08	-13.00	37.08
				2 125.23	V	-59.88	3.08	-56.80	-13.00	43.80
				2 834.93	V	-67.23	4.79	-62.44	-13.00	49.44
				3 541.01	H	-67.35	6.21	-61.14	-13.00	48.14
	711			1 430.74	H	-53.30	2.97	-50.33	-13.00	37.33
				2 145.99	V	-59.58	3.23	-56.35	-13.00	43.35
				2 861.74	V	-67.40	4.87	-62.53	-13.00	49.53
				3 576.60	H	-67.86	6.23	-61.63	-13.00	48.63

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	708.5	$\pi/2$ BPSK	1/77	1 430.59	H	-56.09	2.97	-53.12	-13.00	40.12
				2 146.04	V	-62.07	3.23	-58.84	-13.00	45.84
				2 861.82	V	-67.46	4.87	-62.59	-13.00	49.59
				3 576.12	H	-68.12	6.23	-61.89	-13.00	48.89

- 5GNR n13

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	$\pi/2$ BPSK	1/50	2 359.16	H	-62.01	4.00	-58.01	-13.00	45.01
				3 146.50	H	-68.44	5.09	-63.35	-13.00	50.35
				3 931.73	H	-68.37	6.63	-61.74	-13.00	48.74
5	779.5		1/23	2 344.51	H	-62.11	4.00	-58.11	-13.00	45.11
				3 128.34	H	-68.61	5.07	-63.54	-13.00	50.54
				3 907.68	H	-67.56	6.50	-61.06	-13.00	48.06
	782		1/1	2 339.85	H	-61.67	4.00	-57.67	-13.00	44.67
				3 119.03	H	-68.03	5.07	-62.96	-13.00	49.96
				3 897.71	H	-67.54	6.45	-61.09	-13.00	48.09
	784.5		1/1	2 347.63	H	-62.10	4.01	-58.09	-13.00	45.09
				3 129.93	H	-68.14	5.07	-63.07	-13.00	50.07
				3 911.58	H	-67.93	6.52	-61.41	-13.00	48.41

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	782	$\pi/2$ BPSK	1/50	1 572.70	V	-53.61	5.76	-47.85	-40.00	7.85
5	779.5		1/23	1 562.82	V	-54.05	5.76	-48.29	-40.00	8.29
	782		1/1	1 559.98	V	-53.67	5.75	-47.92	-40.00	7.92
	784.5		1/1	1 565.15	V	-53.40	5.76	-47.64	-40.00	7.64

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
5	784.5	$\pi/2$ BPSK	1/1	2 347.40	V	-64.42	4.01	-60.41	-13.00	47.41
				3 130.07	V	-68.36	5.07	-63.29	-13.00	50.29
				3 909.95	V	-67.88	6.51	-61.37	-13.00	48.37

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
5	784.5	$\pi/2$ BPSK	1/1	1 565.04	V	-61.41	5.76	-55.65	-40.00	15.65

- 5GNR n14

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	$\pi/2$ BPSK	1/50	2 392.07	H	-64.31	3.94	-60.37	-13.00	47.37
				3 189.16	H	-67.58	5.14	-62.44	-13.00	49.44
				3 987.18	H	-68.55	6.84	-61.71	-13.00	48.71
5	790.5		1/23	2 377.61	H	-65.01	3.97	-61.04	-13.00	48.04
				3 172.78	H	-67.73	5.12	-62.61	-13.00	49.61
				3 962.57	H	-68.42	6.77	-61.65	-13.00	48.65
	793		1/1	2 373.16	H	-64.62	3.97	-60.65	-13.00	47.65
				3 163.86	H	-67.90	5.11	-62.79	-13.00	49.79
				3 952.39	H	-68.85	6.74	-62.11	-13.00	49.11
	795.5		1/23	2 392.03	H	-64.73	3.94	-60.79	-13.00	47.79
				3 190.12	H	-67.85	5.15	-62.70	-13.00	49.70
				3 987.76	H	-68.48	6.84	-61.64	-13.00	48.64

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	793	$\pi/2$ BPSK	1/50	1 594.88	V	-54.02	5.77	-48.25	-40.00	8.25
5	790.5		1/23	1 584.91	V	-50.10	5.76	-44.34	-40.00	4.34
	793		1/1	1 581.94	V	-49.97	5.76	-44.21	-40.00	4.21
	795.5		1/23	1 594.99	V	-51.42	5.77	-45.65	-40.00	5.65

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
5	793	$\pi/2$ BPSK	1/1	2 373.03	V	-64.66	3.97	-60.69	-13.00	47.69
				3 163.51	V	-67.20	5.11	-62.09	-13.00	49.09
				3 953.12	V	-68.73	6.74	-61.99	-13.00	48.99

UNDESIRABLE EMISSIONS IN 1 559 MHz ~ 1 610 MHz

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
5	793	$\pi/2$ BPSK	1/1	1 582.05	V	-59.55	5.76	-53.79	-40.00	13.79

- 5GNR n26

814 ~ 824MHz Band

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	π/2 BPSK	1/1	1 629.05	V	-54.57	3.56	-51.01	-13.00	38.01
				2 443.72	V	-63.26	3.84	-59.42	-13.00	46.42
				3 258.43	V	-67.54	5.36	-62.18	-13.00	49.18
				4 072.70	H	-68.68	7.03	-61.65	-13.00	48.65
5	816.5			1 628.96	V	-55.15	3.56	-51.59	-13.00	38.59
				2 443.63	V	-63.62	3.84	-59.78	-13.00	46.78
				3 257.78	V	-67.53	5.36	-62.17	-13.00	49.17
				4 070.16	H	-68.91	7.03	-61.88	-13.00	48.88
	821.5			1 639.06	V	-54.76	3.54	-51.22	-13.00	38.22
				2 458.57	V	-63.94	3.81	-60.13	-13.00	47.13
				3 278.14	V	-67.29	5.43	-61.86	-13.00	48.86
				4 096.88	H	-69.01	7.05	-61.96	-13.00	48.96

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
10	819	$\pi/2$ BPSK	1/1	1 629.08	V	-60.55	3.56	-56.99	-13.00	43.99
				2 443.74	V	-61.38	3.84	-57.54	-13.00	44.54
				3 257.45	V	-67.63	5.36	-62.27	-13.00	49.27
				4 071.87	H	-68.95	7.03	-61.92	-13.00	48.92

824 ~ 849MHz Band

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	834	$\pi/2$ BPSK	1/104	1 686.67	V	-55.53	3.63	-51.90	-13.00	38.90
				2 529.78	V	-62.20	3.76	-58.44	-13.00	45.44
				3 372.84	V	-67.74	5.82	-61.92	-13.00	48.92
				4 215.84	H	-69.05	7.02	-62.03	-13.00	49.03
	836.5			1 691.53	V	-54.06	3.64	-50.42	-13.00	37.42
				2 537.25	V	-62.03	3.76	-58.27	-13.00	45.27
				3 382.25	V	-67.57	5.86	-61.71	-13.00	48.71
				4 228.29	H	-69.01	7.03	-61.98	-13.00	48.98
	839			1 696.53	V	-53.64	3.66	-49.98	-13.00	36.98
				2 544.86	V	-61.80	3.77	-58.03	-13.00	45.03
				3 392.58	V	-67.51	5.91	-61.60	-13.00	48.60
				4 240.83	H	-68.99	7.03	-61.96	-13.00	48.96

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	839	$\pi/2$ BPSK	1/104	1 696.51	V	-59.47	3.66	-55.81	-13.00	42.81
				2 544.86	V	-62.27	3.77	-58.50	-13.00	45.50
				3 392.38	V	-67.61	5.91	-61.70	-13.00	48.70
				4 240.99	H	-68.65	7.03	-61.62	-13.00	48.62

- 5GNR n5

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
20	834	$\pi/2$ BPSK	1/104	1 686.47	V	-53.98	3.63	-50.35	-13.00	37.35
				2 529.74	H	-62.56	3.76	-58.80	-13.00	45.80
				3 373.22	V	-67.94	5.82	-62.12	-13.00	49.12
				4 215.47	H	-69.02	7.02	-62.00	-13.00	49.00
	839		1/1	1 659.50	V	-52.66	3.55	-49.11	-13.00	36.11
				2 489.08	H	-62.24	3.76	-58.48	-13.00	45.48
				3 320.29	V	-67.24	5.59	-61.65	-13.00	48.65
				4 151.26	H	-69.04	7.02	-62.02	-13.00	49.02
15	831.5		1/77	1 676.60	V	-52.00	3.60	-48.40	-13.00	35.40
				2 514.95	H	-63.16	3.75	-59.41	-13.00	46.41
				3 352.63	V	-67.57	5.72	-61.85	-13.00	48.85
				4 191.37	H	-68.82	7.01	-61.81	-13.00	48.81
	841.5		1/1	1 669.31	V	-51.79	3.58	-48.21	-13.00	35.21
				2 503.96	H	-61.56	3.74	-57.82	-13.00	44.82
				3 338.38	V	-67.18	5.66	-61.52	-13.00	48.52
				4 173.04	H	-68.65	7.02	-61.63	-13.00	48.63

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBd)	Result (dBm)	Limit (dBm)	Margin (dB)
15	841.5	$\pi/2$ BPSK	1/1	1 669.28	V	-56.42	3.58	-52.84	-13.00	39.84
				2 503.95	V	-62.63	3.74	-58.89	-13.00	45.89
				3 338.38	V	-67.18	5.66	-61.52	-13.00	48.52
				4 173.41	H	-68.95	7.02	-61.93	-13.00	48.93

- 5GNR n70

Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
15	1 702.5	$\pi/2$ BPSK	1/77	3 418.75	V	-58.07	8.15	-49.92	-13.00	36.92
				5 127.85	H	-67.20	10.05	-57.15	-13.00	44.15
				6 836.43	H	-66.37	11.18	-55.19	-13.00	42.19
				8 546.01	V	-70.02	13.14	-56.88	-13.00	43.88
10	1 700		1/50	3 408.69	V	-58.70	8.12	-50.58	-13.00	37.58
				5 113.11	H	-67.41	10.03	-57.38	-13.00	44.38
				6 817.09	H	-66.18	11.16	-55.02	-13.00	42.02
				8 522.33	V	-70.03	13.12	-56.91	-13.00	43.91
	1 702.5		1/50	3 413.81	V	-58.65	8.14	-50.51	-13.00	37.51
				5 120.61	H	-67.23	10.04	-57.19	-13.00	44.19
				6 827.39	H	-66.39	11.17	-55.22	-13.00	42.22
				8 535.30	V	-69.68	13.13	-56.55	-13.00	43.55
	1 705		1/1	3 401.15	V	-57.95	8.10	-49.85	-13.00	36.85
				5 101.49	H	-67.20	10.01	-57.19	-13.00	44.19
				6 801.18	H	-65.88	11.15	-54.73	-13.00	41.73
				8 501.84	V	-69.35	13.10	-56.25	-13.00	43.25

External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	1 705	$\pi/2$ BPSK	1/1	3 401.15	V	-62.88	8.10	-54.78	-13.00	41.78
				5 101.37	H	-67.76	10.01	-57.75	-13.00	44.75
				6 802.60	H	-65.93	11.15	-54.78	-13.00	41.78
				8 503.84	V	-69.51	13.10	-56.41	-13.00	43.41

- 5GNR n66

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 730	$\pi/2$ BPSK	1/214	3 498.40	V	-63.50	8.31	-55.19	-13.00	42.19
				5 247.39	H	-65.75	10.16	-55.59	-13.00	42.59
				6 996.86	H	-67.15	11.24	-55.91	-13.00	42.91
				8 745.53	V	-70.57	13.15	-57.42	-13.00	44.42
	1 760		1/1	3 481.65	V	-64.53	8.28	-56.25	-13.00	43.25
				5 222.27	H	-65.21	10.12	-55.09	-13.00	42.09
				6 963.05	H	-66.95	11.20	-55.75	-13.00	42.75
				8 704.93	V	-70.61	13.17	-57.44	-13.00	44.44
30	1 725	1/158	3 478.30	V	-63.79	8.28	-55.51	-13.00	42.51	
			5 217.50	H	-64.48	10.11	-54.37	-13.00	41.37	
			6 956.99	H	-67.12	11.19	-55.93	-13.00	42.93	
			8 695.42	V	-70.73	13.17	-57.56	-13.00	44.56	

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
30	1 725	$\pi/2$ BPSK	1/158	3 478.13	V	-66.38	8.28	-58.10	-13.00	45.10
				5 217.49	H	-66.06	10.11	-55.95	-13.00	42.95
				6 956.13	H	-67.16	11.19	-55.97	-13.00	42.97
				8 696.18	V	-70.71	13.17	-57.54	-13.00	44.54

- 5GNR n2

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 860	$\pi/2$ BPSK	1/104	3 738.58	V	-53.43	8.28	-45.15	-13.00	32.15
				5 607.75	H	-59.23	10.65	-48.58	-13.00	35.58
				7 477.06	H	-66.57	12.09	-54.48	-13.00	41.48
				9 344.15	V	-67.00	13.25	-53.75	-13.00	40.75
	1 880		1/1	3 741.46	V	-52.60	8.28	-44.32	-13.00	31.32
				5 612.14	H	-59.12	10.66	-48.46	-13.00	35.46
				7 482.81	H	-66.63	12.09	-54.54	-13.00	41.54
				9 353.86	V	-67.12	13.25	-53.87	-13.00	40.87
	1 900		1/1	3 781.46	V	-52.42	8.31	-44.11	-13.00	31.11
				5 672.19	H	-58.09	10.74	-47.35	-13.00	34.35
				7 562.82	H	-66.89	12.10	-54.79	-13.00	41.79
				9 455.95	V	-66.40	13.20	-53.20	-13.00	40.20

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
20	1 900	$\pi/2$ BPSK	1/1	3 781.34	V	-58.62	8.31	-50.31	-13.00	37.31
				5 671.91	H	-58.34	10.74	-47.60	-13.00	34.60
				7 562.62	H	-67.11	12.10	-55.01	-13.00	42.01
				9 456.01	V	-66.28	13.20	-53.08	-13.00	40.08

- 5GNR n25

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 870	$\pi/2$ BPSK	1/1	3 701.60	V	-63.85	8.30	-55.55	-13.00	42.55
				5 552.29	H	-65.33	10.63	-54.70	-13.00	41.70
				7 402.89	H	-66.82	12.00	-54.82	-13.00	41.82
				9 252.82	V	-67.67	13.25	-54.42	-13.00	41.42
	1 882.5			3 726.78	V	-63.06	8.28	-54.78	-13.00	41.78
				5 590.09	H	-64.69	10.63	-54.06	-13.00	41.06
				7 452.94	H	-67.07	12.08	-54.99	-13.00	41.99
				9 316.16	V	-67.54	13.28	-54.26	-13.00	41.26
	1 895			3 751.71	V	-62.71	8.27	-54.44	-13.00	41.44
				5 627.34	H	-64.94	10.69	-54.25	-13.00	41.25
				7 503.17	H	-67.28	12.10	-55.18	-13.00	42.18
				9 378.04	V	-66.85	13.23	-53.62	-13.00	40.62

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	1 895	$\pi/2$ BPSK	1/1	3 751.78	V	-64.88	8.27	-56.61	-13.00	43.61
				5 627.49	V	-67.54	10.69	-56.85	-13.00	43.85
				7 503.08	H	-67.03	12.10	-54.93	-13.00	41.93
				9 378.54	V	-66.98	13.23	-53.75	-13.00	40.75

- 5GNR n30

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	2 310	$\pi/2$ BPSK	1/1	4 611.16	H	-62.08	9.44	-52.64	-40.00	12.64
				6 915.57	V	-67.43	11.19	-56.24	-40.00	16.24
				9 221.01	V	-67.31	13.26	-54.05	-40.00	14.05
				11 528.37	H	-63.77	13.21	-50.56	-40.00	10.56
5	2 307.5		1/1	4 610.95	H	-62.48	9.44	-53.04	-40.00	13.04
				6 915.81	V	-67.49	11.19	-56.30	-40.00	16.30
				9 219.93	V	-67.31	13.26	-54.05	-40.00	14.05
				11 527.09	H	-63.91	13.21	-50.70	-40.00	10.70
	2 310		1/1	4 615.94	H	-62.42	9.44	-52.98	-40.00	12.98
				6 923.00	V	-67.64	11.19	-56.45	-40.00	16.45
				9 231.20	V	-67.80	13.26	-54.54	-40.00	14.54
				11 539.37	H	-63.98	13.21	-50.77	-40.00	10.77
	2 312.5		1/23	4 629.07	H	-63.28	9.44	-53.84	-40.00	13.84
				6 943.15	V	-67.56	11.18	-56.38	-40.00	16.38
				9 257.36	V	-67.26	13.26	-54.00	-40.00	14.00
				11 573.12	H	-64.02	13.19	-50.83	-40.00	10.83

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
10	2 310	$\pi/2$ BPSK	1/1	4 611.23	H	-66.96	9.44	-57.52	-40.00	17.52
				6 915.75	H	-66.52	11.19	-55.33	-40.00	15.33
				9 222.91	V	-65.32	13.26	-52.06	-40.00	12.06
				11 527.90	H	-63.87	13.21	-50.66	-40.00	10.66

- 5GNR n41

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	2 546.01	QPSK	1/271	5 188.97	H	-60.39	10.09	-50.30	-25.00	25.30
				7 781.53	H	-60.43	12.10	-48.33	-25.00	23.33
				10 375.86	H	-56.21	13.10	-43.11	-25.00	18.11
				12 970.42	H	-54.24	12.92	-41.32	-25.00	16.32
	2 592.99			5 282.81	H	-60.26	10.17	-50.09	-25.00	25.09
				7 923.26	H	-60.32	12.35	-47.97	-25.00	22.97
				10 563.98	H	-55.23	13.09	-42.14	-25.00	17.14
				13 205.06	H	-54.62	13.37	-41.25	-25.00	16.25
	2 640			5 376.74	H	-60.12	10.25	-49.87	-25.00	24.87
				8 063.98	H	-60.50	12.56	-47.94	-25.00	22.94
				10 751.40	H	-56.23	13.17	-43.06	-25.00	18.06
				13 441.36	H	-54.45	13.62	-40.83	-25.00	15.83

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	2 640	QPSK	1/271	5 377.28	H	-60.62	10.25	-50.37	-25.00	25.37
				8 063.33	H	-60.49	12.56	-47.93	-25.00	22.93
				10 752.28	H	-56.25	13.17	-43.08	-25.00	18.08
				13 439.53	H	-54.52	13.62	-40.90	-25.00	15.90

- 5GNR n7 data

External antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 520	$\pi/2$ BPSK	1/214	5 078.65	H	-65.60	9.99	-55.61	-25.00	30.61
				7 617.88	H	-67.89	12.08	-55.81	-25.00	30.81
				10 157.45	V	-61.91	13.04	-48.87	-25.00	23.87
				12 695.01	H	-61.84	13.11	-48.73	-25.00	23.73
	2 535			5 108.60	H	-64.95	10.02	-54.93	-25.00	29.93
				7 663.02	H	-67.78	12.05	-55.73	-25.00	30.73
				10 216.79	V	-62.91	13.03	-49.88	-25.00	24.88
				12 770.99	H	-61.09	13.02	-48.07	-25.00	23.07
	2 550			5 138.64	H	-64.86	10.07	-54.79	-25.00	29.79
				7 707.76	H	-67.54	12.06	-55.48	-25.00	30.48
				10 275.73	V	-63.16	13.07	-50.09	-25.00	25.09
				12 845.75	H	-60.99	12.95	-48.04	-25.00	23.04

Internal chip antenna 1

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 550	$\pi/2$ BPSK	1/214	5 138.69	H	-65.47	10.07	-55.40	-25.00	30.40
				7 707.74	H	-67.44	12.06	-55.38	-25.00	30.38
				10 277.38	V	-63.03	13.07	-49.96	-25.00	24.96
				12 846.12	H	-61.01	12.95	-48.06	-25.00	23.06

- 5GNR n38

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 590	QPSK	1/1	5 142.51	H	-60.91	10.08	-50.83	-25.00	25.83
				7 711.86	H	-60.64	12.06	-48.58	-25.00	23.58
				10 284.34	H	-56.48	13.07	-43.41	-25.00	18.41
				12 854.55	H	-53.93	12.95	-40.98	-25.00	15.98
	2 595		1/104	5 226.74	H	-60.54	10.13	-50.41	-25.00	25.41
				7 841.34	H	-60.28	12.19	-48.09	-25.00	23.09
				10 455.60	H	-55.39	13.12	-42.27	-25.00	17.27
				13 069.82	H	-54.20	13.08	-41.12	-25.00	16.12
	2 600		1/1	5 162.94	H	-61.15	10.09	-51.06	-25.00	26.06
				7 741.67	H	-60.71	12.06	-48.65	-25.00	23.65
				10 324.02	H	-56.61	13.09	-43.52	-25.00	18.52
				12 904.84	H	-54.32	12.91	-41.41	-25.00	16.41

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
40	2 595	QPSK	1/104	5 227.15	H	-61.17	10.13	-51.04	-25.00	26.04
				7 841.34	H	-60.19	12.19	-48.00	-25.00	23.00
				10 456.22	H	-55.58	13.12	-42.46	-25.00	17.46
				13 069.96	H	-54.57	13.08	-41.49	-25.00	16.49

- 5GNR n78 3 450 ~ 3 550 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 500.01	QPSK	1/1	6 902.60	H	-57.47	11.19	-46.28	-13.00	33.28
				10 355.51	H	-56.01	13.10	-42.91	-13.00	29.91
				13 808.39	H	-53.60	14.35	-39.25	-13.00	26.25
				17 260.36	H	-58.43	13.78	-44.65	-13.00	31.65
90	3 495			6 902.88	H	-57.30	11.19	-46.11	-13.00	33.11
				10 357.33	H	-55.97	13.10	-42.87	-13.00	29.87
				13 809.83	H	-53.85	14.35	-39.50	-13.00	26.50
				17 260.43	H	-58.55	13.78	-44.77	-13.00	31.77
	3 500.01			6 912.91	H	-57.29	11.19	-46.10	-13.00	33.10
				10 371.51	H	-56.33	13.10	-43.23	-13.00	30.23
				13 831.50	H	-53.65	14.36	-39.29	-13.00	26.29
				17 286.48	H	-58.56	13.76	-44.80	-13.00	31.80
	3 504.99			6 922.95	H	-57.91	11.19	-46.72	-13.00	33.72
				10 386.24	H	-55.90	13.10	-42.80	-13.00	29.80
				13 848.01	H	-53.78	14.36	-39.42	-13.00	26.42
				17 310.34	H	-58.48	13.76	-44.72	-13.00	31.72

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 500.01	QPSK	1/1	6 912.91	H	-58.74	11.19	-47.55	-13.00	34.55
				10 372.05	H	-56.28	13.10	-43.18	-13.00	30.18
				13 828.99	H	-54.13	14.36	-39.77	-13.00	26.77
				17 285.46	H	-58.45	13.76	-44.69	-13.00	31.69

- 5GNR n78 3 700 ~ 3 800 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 750.00	QPSK	1/271	7 597.10	H	-57.94	12.11	-45.83	-13.00	32.83
				11 394.11	H	-56.76	13.29	-43.47	-13.00	30.47
				15 193.20	H	-60.26	13.83	-46.43	-13.00	33.43
90	3 745.02		1/1	7 403.02	H	-58.06	12.00	-46.06	-13.00	33.06
				11 105.74	H	-56.55	13.24	-43.31	-13.00	30.31
				14 809.62	H	-58.54	13.76	-44.78	-13.00	31.78
	3 750		1/243	7 587.05	H	-57.03	12.11	-44.92	-13.00	31.92
				11 379.03	H	-56.57	13.29	-43.28	-13.00	30.28
				15 170.63	H	-60.26	13.82	-46.44	-13.00	33.44
	3 754.98		1/243	7 597.00	H	-57.45	12.11	-45.34	-13.00	32.34
				11 392.67	H	-56.76	13.29	-43.47	-13.00	30.47
				15 191.65	H	-60.20	13.83	-46.37	-13.00	33.37

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 750	QPSK	1/243	7 587.20	H	-59.14	12.11	-47.03	-13.00	34.03
				11 377.33	H	-56.60	13.29	-43.31	-13.00	30.31
				15 171.24	H	-60.24	13.82	-46.42	-13.00	33.42

- 5GNR n77 3 450 ~ 3 550 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 500.01	QPSK	1/1	6 902.90	H	-57.22	11.19	-46.03	-13.00	33.03
				10 356.50	H	-56.00	13.10	-42.90	-13.00	29.90
				13 807.50	H	-53.81	14.35	-39.46	-13.00	26.46
				17 259.85	H	-58.64	13.78	-44.86	-13.00	31.86
90	3 495			6 902.86	H	-57.28	11.19	-46.09	-13.00	33.09
				10 356.36	H	-56.32	13.10	-43.22	-13.00	30.22
				13 809.29	H	-53.77	14.35	-39.42	-13.00	26.42
				17 260.84	H	-58.67	13.78	-44.89	-13.00	31.89
	3 500			6 912.94	H	-57.19	11.19	-46.00	-13.00	33.00
				10 372.13	H	-56.40	13.10	-43.30	-13.00	30.30
				13 829.76	H	-53.64	14.36	-39.28	-13.00	26.28
				17 285.43	H	-58.57	13.76	-44.81	-13.00	31.81
	3 505			6 922.68	H	-57.65	11.19	-46.46	-13.00	33.46
				10 385.77	H	-56.05	13.10	-42.95	-13.00	29.95
				13 848.14	H	-53.82	14.36	-39.46	-13.00	26.46
				17 310.77	H	-58.39	13.76	-44.63	-13.00	31.63

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
90	3 500	QPSK	1/1	6 912.70	H	-58.40	11.19	-47.21	-13.00	34.21
				10 371.25	H	-56.11	13.10	-43.01	-13.00	30.01
				13 829.96	H	-53.73	14.36	-39.37	-13.00	26.37
				17 286.25	H	-58.46	13.76	-44.70	-13.00	31.70

- 5GNR n77 3 700 ~ 3 980 MHz band

MIMO: Internal chip antenna 1 + Internal chip antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 750	QPSK	1/271	7 597.28	H	-57.66	12.11	-45.55	-13.00	32.55
				11 394.51	H	-56.76	13.29	-43.47	-13.00	30.47
				15 193.33	H	-60.31	13.83	-46.48	-13.00	33.48
	3 840		1/1	7 582.93	H	-57.59	12.11	-45.48	-13.00	32.48
				11 375.90	H	-56.59	13.29	-43.30	-13.00	30.30
				15 167.30	H	-60.36	13.82	-46.54	-13.00	33.54
	3 930		1/271	7 957.19	H	-57.34	12.42	-44.92	-13.00	31.92
				11 933.73	H	-55.44	12.99	-42.45	-13.00	29.45
				15 912.88	H	-59.11	13.43	-45.68	-13.00	32.68

MIMO: External antenna 1 + External antenna 2

Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset	Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
100	3 930	QPSK	1/271	7 957.15	H	-59.04	12.42	-46.62	-13.00	33.62
				11 935.08	H	-55.55	12.99	-42.56	-13.00	29.56
				15 911.85	H	-58.96	13.43	-45.53	-13.00	32.53

ENDC MODE: NR n38 + LTE B5

Band	Channel Bandwidth (MHz)	Frequency (MHz)	Modulation	RB size/offset
NR n38	40	2 600	BPSK	1/1
LTE B5	10	844	QPSK	1/25

External antenna 1

Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
1 688.22	V	-61.11	5.78	-55.33	-13.00	42.33
2 532.20	V	-65.73	5.91	-59.82	-13.00	46.82
3 375.16	V	-67.53	7.98	-59.55	-13.00	46.55
4 219.51	H	-69.10	9.17	-59.93	-13.00	46.93
5 162.35	H	-60.69	10.09	-50.60	-25.00	25.60
7 741.77	H	-59.96	12.06	-47.90	-25.00	22.90
10 323.67	H	-56.35	13.09	-43.26	-25.00	18.26
12 904.54	H	-55.06	12.91	-42.15	-25.00	17.15

Internal chip antenna 1

Freq.(MHz)	Ant Pol (H/V)	Level at Antenna Terminal(dBm)	Substitute Antenna Gain(dBi)	Result (dBm)	Limit (dBm)	Margin (dB)
1 688.17	V	-55.40	5.78	-49.62	-13.00	36.62
2 532.19	V	-62.23	5.91	-56.32	-13.00	43.32
3 376.65	V	-67.61	7.99	-59.62	-13.00	46.62
4 219.00	H	-69.33	9.17	-60.16	-13.00	47.16
5 161.46	H	-60.86	10.09	-50.77	-25.00	25.77
7 741.61	H	-60.01	12.06	-47.95	-25.00	22.95
10 323.19	H	-56.21	13.09	-43.12	-25.00	18.12
12 905.17	H	-54.99	12.91	-42.08	-25.00	17.08