

FCC TEST REPORT

Name of Sample: Mobile Cellular Phone

Model of Sample: XT2429-1

Applicant: Motorola Mobility LLC

Issue Date: 2024-03-22



ADR TEST AND CERTIFICATION CENTER

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Name of Client	Motorola Mobility LLC		
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Trademark	Motorola	Type Name or ID	FCC ID: IHDT56AR4
Applicant No.	RF173706	Sample No.	1#: NGCL2P0123 2#: NGCL2P0113
Delivering Date	2024-01-25	Test Date	2024-01-25 to 2024-03-22
Sample Illustration	None		
Standard	47 CFR Part 2; 47 CFR Part 22; 47 CFR Part 24; 47 CFR Part 27; 47 CFR Part 90;		
Conclusion	Pass		
Remarks	N/A		

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Revision History

Report No.	Version	Description	Issued Date
TR-24ADRTCC7002	Rev.01	Initial issue of report	2024-02-29
TR-24ADRTCC7002	Rev.02	Update n26A (814-824) 15MHz/20MHz Data	2024-03-19
TR-24ADRTCC7002	Rev.03	Update n2 Ant1 Gain and n66 support SA description.	2024-03-19
TR-24ADRTCC7002	Rev.04	Update n66 Ant1 Gain	2024-03-21
TR-24ADRTCC7002	Rev.05	Update accessories information	2024-03-22

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1. Test Summary

1.1. 5G NR Band n5/n26

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Radiated Power	§22.913(a)(5)	ERP < 7W		
Peak-Average Ratio	§22.913(d)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §22.917(a)	< -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §22.917(a)	< -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges	Section 6 of Appendix B	Pass
Frequency Stability	§2.1055 §22.355	< ±2.5ppm	Section 7 of Appendix B	Pass

1.2. 5G NR Band n2

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Isotropic Radiated Power	§24.232(c)	EIRP < 2W		
Peak-Average Ratio	§24.232(d)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §24.238(a)	< -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §24.238(a)	< -13 dBm/MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Frequency Stability	§24.235	< ±2.5 ppm	Section 7 of Appendix B	Pass

1.3. 5G NR Band n66

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only	Section 1 of Appendix B	Pass
Effective Isotropic Radiated Power	§27.50(d)	EIRP < 1W		
Peak-Average Ratio	---	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of Appendix B	Pass
26dB Emission Bandwidth		No limit		
Conducted Band Edges	§2.1051 §27.53(h)	< -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(h)	< -13 dBm/MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

1.4. 5G NR Band n7/n38/n41

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only		
Effective Isotropic Radiated Power	§27.50(h) (2)	EIRP < 2W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§27.50(a)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth		No limit	Section 4 of Appendix B	
26dB Emission Bandwidth	§2.1049	No limit		Pass
Conducted Band Edges	§2.1051 §27.53(m) (4)	For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(m) (4)	< -25 dBm/MHz for outside Band Edge Range	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

1.5. 5G NR Band n26 (814-824)

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046 §90.635	Report Only	Section 1 of Appendix B	PASS
Peak-Average Ratio	---	<13 dB	Section 2 of Appendix B	PASS
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	PASS
Occupied Bandwidth		No limit	Section 4 of Appendix B	
26dB Emission Bandwidth	§2.1049	No limit		PASS
Emission Mask	§2.1051 § 90.691	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	Section 5 of Appendix B	PASS
Conducted Spurious Emission	§2.1051 §90.691	< $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions	Section 6 of Appendix B	PASS
Frequency Stability	§90.213	< $\pm 2.5\text{ppm}$	Section 7 of Appendix B	PASS

1.6. 5G NR Band n78 (3450-3550)

Test Item	Rule No.	Requirements	Test Result	Verdict
Conducted Power	§2.1046	Report Only		
Effective Isotropic Radiated Power	§27.50(k) (3)	EIRP < 1W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§27.50(k) (4)	<13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Occupied Bandwidth	§2.1049	No limit	Section 4 of	Pass

Test Item	Rule No.	Requirements	Test Result	Verdict
26dB Emission Bandwidth		No limit	Appendix B	
Conducted Band Edges	§2.1051 §27.53(n) (2)	< -13 dBm/MHz	Section 5 of Appendix B	Pass
Conducted Spurious Emission	§2.1051 §27.53(n) (2)	< -13 dBm/MHz	Section 6 of Appendix B	Pass
Frequency Stability	§27.54	Within authorized bands	Section 7 of Appendix B	Pass

Remark:

1. Only 5G NR Bands conducted test performed and the data displayed in this report, the radiated spurious emission refer to the report (FG411904G).
2. The maximum E(I)RP is calculated from max output power and max antenna gain, only the max E(I)RP data displayed in this report, n5/n26 for Antenna 0; n2/n7/n38/n41/n66 for antenna 1; n78 for antenna 2.
3. 5G NR Bands support SA mode for n2/n5/n7/n26/n38/n41/n66/n78 and NSA mode for n2/n5/n7/n38/n41/n66/n78.
4. The test has been assessed on SA and NSA mode, but only the worst mode performed the whole conducted test items by referring to the max conducted power.
5. The ENDC combination could referred to the product specification.

2. Maximum Effective Radiated (Isotropic) Power and Emission Designator

2.1. NR System

2.1.1. NR Band n2 (1850-1910)

5G SA (n2A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
5MHz	1852.5-1907.5	0.120503	4M49G7D	0.087297	4M51W7D
10MHz	1855.0-1905.0	0.119399	9M29G7D	0.085507	9M31W7D
15MHz	1857.5-1902.5	0.115611	14M1G7D	0.082224	14M2W7D
20MHz	1860.0-1900.0	0.117490	18M9G7D	0.083753	19M0W7D

5G NR NSA (DC_7A_n2A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
5MHz	1852.5-1907.5	0.175792	4M50G7D	0.154525	4M49W7D
10MHz	1855.0-1905.0	0.177419	9M27G7D	0.152405	9M31W7D
15MHz	1857.5-1902.5	0.170608	14M1G7D	0.153109	14M2W7D
20MHz	1860.0-1900.0	0.172584	18M9G7D	0.149279	19M0W7D

2.1.2. NR Band n5 (824-849)

5G NR SA (n5A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum ERP (W)	Emission Designator (99% OBW)	Maximum ERP (W)	Emission Designator (99% OBW)
5MHz	826.5-846.5	0.070632	4M49G7D	0.053827	4M50W7D
10MHz	829.0-844.0	0.068865	9M29G7D	0.053333	9M29W7D
15MHz	831.5-841.5	0.067453	14M1G7D	0.053580	14M2W7D
20MHz	834.0-839.0	0.067764	18M9G7D	0.052723	18M9W7D
25MHz	836.5	0.072277	23M7G7D	0.059020	23M8W7D

2.1.3. NR Band n7 (2500-2570)

5G NR SA (n7A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
5MHz	2502.5-2567.5	0.108393	4M49G7D	0.085901	4M51W7D
10MHz	2505.0-2565.0	0.107895	9M29G7D	0.089536	9M33W7D
15MHz	2507.5-2562.5	0.107895	14M1G7D	0.085507	14M2W7D
20MHz	2510.0-2560.0	0.106414	18M9G7D	0.085704	19M0W7D
25MHz	2512.5-2557.5	0.107399	23M7G7D	0.087498	23M7W7D
30MHz	2515.0-2555.0	0.106905	28M6G7D	0.084528	28M6W7D
40MHz	2520.0-2550.0	0.108393	38M7G7D	0.085310	38M6W7D

5G NR NSA (DC_2A_n7A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
5MHz	2502.5-2567.5	0.189234	4M50G7D	0.140605	4M49W7D
10MHz	2505.0-2565.0	0.182810	9M31G7D	0.150314	9M31W7D
15MHz	2507.5-2562.5	0.180717	14M1G7D	0.139637	14M2W7D
20MHz	2510.0-2560.0	0.198153	18M9G7D	0.148594	19M0W7D
25MHz	2512.5-2557.5	0.187499	23M7G7D	0.144877	23M7W7D
30MHz	2515.0-2555.0	0.195884	28M5G7D	0.148594	28M5W7D
40MHz	2520.0-2550.0	0.192752	38M7G7D	0.150661	38M6W7D

2.1.4. NR Band n26 (814-824)

5G NR SA (n26A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum Output Power (W)	Emission Designator (99% OBW)	Maximum Output Power (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
5MHz	816.5-821.5	0.172584	4M50G7D	0.176604	4M49W7D
10MHz	819.0	0.223872	9M27G7D	0.179061	9M29W7D
15MHz	821.5	0.217270	14M1G7D	0.172584	14M1W7D
20MHz	824.0	0.216272	18M9G7D	0.171002	19M0W7D

2.1.5. NR Band n26 (824-849)

5G NR SA (n26A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum ERP (W)	Emission Designator (99% OBW)	Maximum ERP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
5MHz	826.5-846.5	0.071945	4M49G7D	0.052723	4M50W7D
10MHz	829.0-844.0	0.066988	9M27G7D	0.053333	9M29W7D
15MHz	831.5-841.5	0.066681	14M2G7D	0.052966	14M2W7D
20MHz	834.0-839.0	0.067298	18M9G7D	0.053211	19M0W7D

2.1.6. NR Band n38 (2570-2620)

5G NR SA (n38A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
10MHz	2575.0-2615.0	0.233884	8M59G7D	0.172187	8M61W7D
15MHz	2577.5-2612.5	0.214289	13M6G7D	0.172982	13M7W7D
20MHz	2580.0-2610.0	0.215278	18M2G7D	0.171396	18M3W7D
30MHz	2585.0-2605.0	0.214289	27M8G7D	0.174181	27M9W7D
40MHz	2590.0-2600.0	0.213796	38M0G7D	0.169434	37M9W7D

2.1.7. NR Band n41 (2496-2690)

5G NR SA (n41A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
10MHz	2501.01-2685.00	0.109396	8M61G7D	0.087096	8M61W7D
15MHz	2503.50-2682.48	0.111173	13M6G7D	0.088716	13M6W7D
20MHz	2506.02-2679.99	0.110408	18M2G7D	0.086497	18M3W7D
30MHz	2511.00-2674.98	0.111173	27M9G7D	0.089125	27M9W7D
40MHz	2516.01-2670.00	0.110917	37M9G7D	0.090782	38M0W7D
50MHz	2521.02-2664.99	0.112202	47M4G7D	0.089125	47M5W7D
60MHz	2526.00-2659.98	0.111429	57M9G7D	0.088512	57M8W7D
70MHz	2531.01-2655.00	0.108143	67M4G7D	0.086497	67M6W7D
80MHz	2536.02-2649.99	0.111944	77M4G7D	0.089331	77M7W7D
90MHz	2541.00-2644.98	0.113240	87M2G7D	0.090782	87M6W7D
100MHz	2546.01-2640.00	0.112720	97M3G7D	0.088716	97M5W7D

2.1.8. NR Band n66 (1710-1780)

5G NR SA (n66A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
5MHz	1712.5-1777.5	0.143219	4M50G7D	0.114288	4M49W7D
10MHz	1715.0-1775.0	0.143219	9M29G7D	0.113501	9M29W7D
15MHz	1717.5-1772.5	0.143549	14M1G7D	0.113240	14M2W7D
20MHz	1720.0-1770.0	0.143880	18M9G7D	0.113763	19M0W7D
25MHz	1722.5-1767.5	0.153815	23M7G7D	0.122744	23M8W7D
30MHz	1725.0-1765.0	0.146555	28M6G7D	0.114551	28M7W7D
35MHz	1727.5-1762.5	0.145881	33M6G7D	0.116145	33M6W7D
40MHz	1730.0-1760.0	0.147911	38M8G7D	0.113501	38M6W7D

5G NR NSA (DC_2A_n66A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
5MHz	1712.5-1777.5	0.145211	4M51G7D	0.113501	4M48W7D
10MHz	1715.0-1775.0	0.136773	9M31G7D	0.108643	9M31W7D
15MHz	1717.5-1772.5	0.144877	14M2G7D	0.114551	14M2W7D
20MHz	1720.0-1770.0	0.146218	18M9G7D	0.114288	19M0W7D
25MHz	1722.5-1767.5	0.150314	23M7G7D	0.112980	23M8W7D
30MHz	1725.0-1765.0	0.144544	28M6G7D	0.112460	28M5W7D
35MHz	1727.5-1762.5	0.142889	33M5G7D	0.108643	33M6W7D
40MHz	1730.0-1760.0	0.143219	38M7G7D	0.112720	38M6W7D

2.1.9. NR Band n78 (3450-3550)

5G NR SA (n78A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
10MHz	3455.01-3544.98	0.177419	8M61G7D	0.138038	8M61W7D
15MHz	3457.50-3542.49	0.176198	13M6G7D	0.140281	13M6W7D
20MHz	3460.02-3540.00	0.176198	18M2G7D	0.140605	18M3W7D
30MHz	3465.00-3534.99	0.175388	27M9G7D	0.137721	27M9W7D
40MHz	3470.01-3529.98	0.173380	38M0G7D	0.137404	38M0W7D
50MHz	3475.02-3525.00	0.165577	47M5G7D	0.128825	47M5W7D
60MHz	3480.00-3519.99	0.164437	57M9G7D	0.130918	57M9W7D
70MHz	3485.01-3514.98	0.166341	67M6G7D	0.131522	67M6W7D
80MHz	3490.02-3510.00	0.167494	77M5G7D	0.128825	77M5W7D
90MHz	3495.00-3504.99	0.160325	87M2G7D	0.128529	87M4W7D
100MHz	3500.01	0.158855	97M1G7D	0.126183	97M3W7D

5G NR NSA (DC_5A_n78A)		Pi/2 BPSK / QPSK		16QAM/64QAM/256QAM	
		Maximum EIRP (W)	Emission Designator (99% OBW)	Maximum EIRP (W)	Emission Designator (99% OBW)
Bandwidth	Frequency Range (MHz)				
10MHz	3455.01-3544.98	0.182390	8M59G7D	0.139316	8M61W7D
15MHz	3457.50-3542.49	0.184502	13M6G7D	0.144212	13M6W7D
20MHz	3460.02-3540.00	0.183654	18M2G7D	0.148936	18M2W7D
30MHz	3465.00-3534.99	0.181970	27M8G7D	0.140605	27M9W7D
40MHz	3470.01-3529.98	0.178649	37M9G7D	0.140605	38M0W7D
50MHz	3475.02-3525.00	0.170608	47M5G7D	0.134586	47M6W7D
60MHz	3480.00-3519.99	0.171002	57M9G7D	0.132130	57M9W7D
70MHz	3485.01-3514.98	0.171002	67M6G7D	0.136773	67M6W7D
80MHz	3490.02-3510.00	0.166725	77M7G7D	0.131220	77M5W7D
90MHz	3495.00-3504.99	0.167494	87M2G7D	0.138038	87M2W7D
100MHz	3500.01	0.162555	97M3G7D	0.126765	97M3W7D

3. General Information

3.1. General Description of EUT

EUT Description:	Mobile Cellular Phone
Brand Name:	Motorola
Model Name:	XT2429-1
FCC ID:	IHDT56AR4
IMEI Code:	1#: 356305710036917/ 356305710036925 (Conducted); 2#: 356305710036479/ 356305710036487 (Conducted);
Hardware Version:	DVT2
Software Version:	U2UU34.10
NR Modulation:	DFT-s-OFDM: <input checked="" type="checkbox"/> Pi/2BPSK; <input checked="" type="checkbox"/> QPSK; <input checked="" type="checkbox"/> 16QAM; <input checked="" type="checkbox"/> 64QAM; <input checked="" type="checkbox"/> 256QAM; CP-OFDM: <input checked="" type="checkbox"/> QPSK; <input checked="" type="checkbox"/> 16QAM; <input checked="" type="checkbox"/> 64QAM; <input checked="" type="checkbox"/> 256QAM;
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain:	n2: -2.50dBi (Ant1); -1.00dBi (Ant4); n5: -3.00dBi (Ant0); -3.00dBi (Ant4); n7: -3.00dBi (Ant1); -0.50dBi (Ant4); n26: -3.00dBi (Ant0); -3.00dBi (Ant4); n38: -3.00dBi (Ant1); n41: -3.00dBi (Ant1); n66: -2.00dBi (Ant1); -2.00dBi (Ant4); n78: -1.00dBi (Ant2); 0.00dBi (Ant5); -4.00dBi (Ant7); -4.00dBi (Ant11);

Remark

- 1, The information above was declared by manufacturer. Please refer to the specifications or user manual for more detailed description.

3.2. Test Environment

Relative Humidity:	52.0% - 62.0%	
Atmospheric Pressure:	101.32 KPa	
Temperature:	NT (normal temperature)	25.0 °C – 27.5 °C
Voltage:	LV (Low voltage)	3.50V
	NV (Nominal voltage)	3.91V
	HV (High voltage)	4.50V

3.3. Specification of Accessories

Accessory	Brand Name	Model Name
AC Adapter 1(US)	Motorola (Chenyang)	MC-681N
AC Adapter 1(EU)	Motorola (Chenyang)	MC-682N
AC Adapter 1(UK)	Motorola (Chenyang)	MC-683N
AC Adapter 1(AU)	Motorola (Chenyang)	MC-685N
AC Adapter 1(AR)	Motorola (Chenyang)	MC-686N
AC Adapter 1(BR)	Motorola (Chenyang)	MC-687N
AC Adapter 1(CHILE)	Motorola (Chenyang)	MC-689N
AC Adapter 2(US)	Motorola (Acbel)	MC-681N
AC Adapter 2(EU)	Motorola (Acbel)	MC-682N
AC Adapter 2(UK)	Motorola (Acbel)	MC-683N
AC Adapter 2(AU)	Motorola (Acbel)	MC-685N
AC Adapter 2(AR)	Motorola (Acbel)	MC-686N
AC Adapter 2(BR)	Motorola (Acbel)	MC-687N
AC Adapter 2(IN)	Motorola (Acbel)	MC-684N
Battery 1	Motorola (ALT)	QC50
Battery 2	Motorola (SCUD)	QC50
USB Cable 1	Motorola (Saibao)	SLQ-A248A
USB Cable 2	Motorola (Juwei)	S928E3829
USB Cable 3	Motorola (Saibao)	SLQ-A248A

4. Test Configuration of Equipment Under Test

4.1. Test Mode for NR Configuration

Test Case	5G NR	SCS		Bandwidth	Modulation					Channel			RB	
		15KHz	30KHz		Pi/2BPSK	QPSK	16QAM	64QAM	256QAM	LCH	MCH	HCH	1	Full
Effective Isotropic Radiated Power	N2 (1850-1910)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N5 (824-849)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N7 (2500-2570)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N26 (814-824)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N26 (824-849)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N38 (2570-2620)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N41 (2496-2690)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N66 (1710-1780)	●	○	All Supported BW	●	●	●	●	●	●	●	●	●	●
	N78 (3450-3550)	○	●	All Supported BW	●	●	●	●	●	●	●	●	●	●
Peak-Average Ratio	N2 (1850-1910)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N5 (824-849)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N7 (2500-2570)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N26 (814-824)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N26 (824-849)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N38 (2570-2620)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
	N41 (2496-2690)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
	N66 (1710-1780)	●	○	Highest BW	●	●	○	○	○	●	●	●	○	●
	N78 (3450-3550)	○	●	Highest BW	●	●	○	○	○	●	●	●	○	●
Modulation Characteristics	N2 (1850-1910)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N5 (824-849)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N7 (2500-2570)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N26 (814-824)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N26 (824-849)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N38 (2570-2620)	○	●	Highest BW	●	●	●	●	●	○	●	●	○	●
	N41 (2496-2690)	○	●	Highest BW	●	●	●	●	●	○	●	●	○	●
	N66 (1710-1780)	●	○	Highest BW	●	●	●	●	●	○	●	●	○	●
	N78 (3450-3550)	○	●	All Supported BW	●	●	●	●	●	○	●	●	○	●
Occupied Bandwidth & 26dB Emission Bandwidth	N2 (1850-1910)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N5 (824-849)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N7 (2500-2570)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N26 (814-824)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N26 (824-849)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N38 (2570-2620)	○	●	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N41 (2496-2690)	○	●	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N66 (1710-1780)	●	○	All Supported BW	●	●	●	●	●	○	●	●	○	●
	N78 (3450-3550)	○	●	All Supported BW	●	●	●	●	●	○	●	●	○	●
Conducted Band Edges	N2 (1850-1910)	●	○	All Supported BW	●	●	○	○	○	●	○	●	●	●
	N5 (824-849)	●	○	All Supported BW	●	●	○	○	○	●	○	●	●	●

	N7 (2500-2570)	●	○	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N26 (814-824)	●	○	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N26 (824-849)	●	○	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N38 (2570-2620)	○	●	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N41 (2496-2690)	○	●	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N66 (1710-1780)	●	○	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
	N78 (3450-3550)	○	●	All Supported BW	●	●	○	○	○	○	●	○	●	●	●
Conducted Spurious Emission	N2 (1850-1910)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N5 (824-849)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N7 (2500-2570)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N26 (814-824)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N26 (824-849)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N38 (2570-2620)	○	●	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N41 (2496-2690)	○	●	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N66 (1710-1780)	●	○	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
	N78 (3450-3550)	○	●	All Supported BW	●	●	○	○	○	○	●	●	●	●	○
Frequency Stability	N2 (1850-1910)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N5 (824-849)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N7 (2500-2570)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N26 (814-824)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N26 (824-849)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N38 (2570-2620)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N41 (2496-2690)	○	●	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N66 (1710-1780)	●	○	Highest BW	○	●	○	○	○	○	●	○	○	○	●
	N78 (3450-3550)	○	●	All Supported BW	○	●	○	○	○	○	●	○	○	○	●

Remark:

- the mark “●” means this configuration was chosen for testing, mark “○” means not selected, and the mark “✗” means not applicable.
- All Supported BW means all supported bandwidth for selected SCS configuration.

4.2. Test Frequencies

4.2.1. 5G NR System

4.2.1.1. NR Band n2 (1850-1910)

4.2.1.1.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	370500	1852.5	376000	1880.0	381500	1907.5
10MHz	371000	1855.0	376000	1880.0	381000	1905.0
15MHz	371500	1857.5	376000	1880.0	380500	1902.5
20MHz	372000	1860.0	376000	1880.0	380000	1900.0

4.2.1.2. NR Band n5 (824-849)

4.2.1.2.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	165300	826.5	167300	836.5	169300	846.5
10MHz	165800	829.0	167300	836.5	168800	844.0
15MHz	166300	831.5	167300	836.5	168300	841.5
20MHz	166800	834.0	167300	836.5	167800	839.0
25MHz	167300	836.5	167300	836.5	167300	836.5

4.2.1.3. NR Band n7 (2500-2570)

4.2.1.3.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	500500	2502.5	507000	2535.0	513500	2567.5
10MHz	501000	2505.0	507000	2535.0	513000	2565.0
15MHz	501500	2507.5	507000	2535.0	512500	2562.5
20MHz	502000	2510.0	507000	2535.0	512000	2560.0
25MHz	502500	2512.5	507000	2535.0	511500	2557.5
30MHz	503000	2515.0	507000	2535.0	511000	2555.0
40MHz	504000	2520.0	507000	2535.0	510000	2550.0

4.2.1.4. NR Band n26 (814-824)

4.2.1.4.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	163300	816.5	163800	819.0	164300	821.5
10MHz	163800	819.0	163800	819.0	163800	819.0
15MHz	164300	821.5	164300	821.5	164300	821.5
20MHz	164800	824.0	164800	824.0	164800	824.0

4.2.1.5. NR Band n26 (824-849)**4.2.1.5.1. SCS=15KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	165300	826.5	167300	836.5	169300	846.5
10MHz	165800	829.0	167300	836.5	168800	844.0
15MHz	166300	831.5	167300	836.5	168300	841.5
20MHz	166800	834.0	167300	836.5	167800	839.0

4.2.1.6. NR Band n38 (2570-2620)**4.2.1.6.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	515000	2575.0	519000	2595.0	523000	2615.0
15MHz	515500	2577.5	519000	2595.0	522500	2612.5
20MHz	516000	2580.0	519000	2595.0	522000	2610.0
30MHz	517000	2585.0	519000	2595.0	521000	2605.0
40MHz	518000	2590.0	519000	2595.0	520000	2600.0

4.2.1.7. NR Band n41 (2496-2690)**4.2.1.7.1. SCS=30KHz**

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	500202	2501.01	518598	2592.99	537000	2685.00
15MHz	500700	2503.50	518598	2592.99	536496	2682.48
20MHz	501204	2506.02	518598	2592.99	535998	2679.99
30MHz	502200	2511.00	518598	2592.99	534996	2674.98
40MHz	503202	2516.01	518598	2592.99	534000	2670.00
50MHz	504204	2521.02	518598	2592.99	532998	2664.99
60MHz	505200	2526.00	518598	2592.99	531996	2659.98
70MHz	506202	2531.01	518598	2592.99	531000	2655.00
80MHz	507204	2536.02	518598	2592.99	529998	2649.99
90MHz	508200	2541.00	518598	2592.99	528996	2644.98
100MHz	509202	2546.01	518598	2592.99	528000	2640.00

4.2.1.8. NR Band n66 (1710-1780)

4.2.1.8.1. SCS=15KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
5MHz	342500	1712.5	349000	1745.0	355500	1777.5
10MHz	343000	1715.0	349000	1745.0	355000	1775.0
15MHz	343500	1717.5	349000	1745.0	354500	1772.5
20MHz	344000	1720.0	349000	1745.0	354000	1770.0
25MHz	344500	1722.5	349000	1745.0	353500	1767.5
30MHz	345000	1725.0	349000	1745.0	353000	1765.0
35MHz	345500	1727.5	349000	1745.0	352500	1762.5
40MHz	346000	1730.0	349000	1745.0	352000	1760.0

4.2.1.9. NR Band N78 (3450-3550)

4.2.1.9.1. SCS=30KHz

Bandwidth	LCH		MCH		HCH	
	Arfcn	Freq	Arfcn	Freq	Arfcn	Freq
10MHz	630334	3455.01	633334	3500.01	636332	3544.98
15MHz	630500	3457.50	633334	3500.01	636166	3542.49
20MHz	630668	3460.02	633334	3500.01	636000	3540.00
30MHz	631000	3465.00	633334	3500.01	635666	3534.99
40MHz	631334	3470.01	633334	3500.01	635332	3529.98
50MHz	631668	3475.02	633334	3500.01	635000	3525.00
60MHz	632000	3480.00	633334	3500.01	634666	3519.99
70MHz	632334	3485.01	633334	3500.01	634332	3514.98
80MHz	632668	3490.02	633334	3500.01	634000	3510.00
90MHz	633000	3495.00	633334	3500.01	633666	3504.99
100MHz	633334	3500.01	633334	3500.01	633334	3500.01

5. Description of Tests

5.1. Conducted Output Power Measurement

5.1.1. Description of Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT, Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

5.1.2. Test Procedures

- 1, The testing follows ANSI C63.26 Section 5.2.
- 2, The transmitter output port was connected to the system simulator.
- 3, Set EUT at maximum power through the system simulator.
- 4, Select lowest, Middle, Highest channels for each band and each modulation.
- 5, Record the reading power from the system simulator.

5.2. Effective (Isotropic) Radiated Power

Measurement Procedure: ANSI C63.26

Calculate power in dBm by the following formula:

$$\text{ERP (dBm)} = \text{Conducted Power (dBm)} + \text{antenna gain (dBd)}$$

$$\text{EIRP (dBm)} = \text{Conducted Power (dBm)} + \text{antenna gain (dBi)}$$

$$\text{EIRP} = \text{ERP} + 2.15\text{dB}$$

5.3. Peak-to-Average Ratio Measurement

5.3.1. Description of PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.3.2. Test Procedures

- 1, The testing follows ANSI C63.26 Section 5.2.3.4(CCDF)
- 2, Refer to instrument's analyser instruction manual for details on how to use the power statistics/CCDF function.
- 3, Centre Frequency = Carrier centre frequency.
- 4, Set resolution bandwidth \geq signal's occupied bandwidth.
- 5, Set the number of counts to a value that stabilizes the measured CCDF curve.
- 6, Set the measurement interval as follows:
 - 1) for continuous transmissions ($>98\%$ duty cycle), set to 1ms.
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- 7, Record the maximum PAR level associated with a probability of 0.1%.

5.3.3. Alternate procedure for PAR

Measurement Procedure: 5.2.6 of ANSI C63.26

Some regulatory requirements specify a PAR limit when the output power limits are specified in terms of average power. If it becomes necessary to provide measurement data to demonstrate compliance to a PAR limit, then the appropriate procedure from those provided in 5.2.3 shall be utilized to determine the peak power (or peak PSD) and the appropriate procedure from those provided in 5.2.4 shall be used to determine the average power (or average PSD). The data from these measurements is then used in Equation (2) to determine the PAR of a narrowband CW-like signal. See 5.2.3.4 for guidance on determining the PAR of a broadband noise-like signal.

$$\text{PAR (dB)} = P_{\text{Pk}} (\text{dBm or dBW}) - P_{\text{Avg}} (\text{dBm or dBW})$$

where

PAR peak-to-average power ratio, in dB

P_{Pk} measured peak power or peak PSD level, in dBm or dBW

P_{Avg} measured average power or average PSD level, in dBm or dBW

5.4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

5.4.1. Description of 99% Occupied Bandwidth & 26dB Emission Bandwidth Measurement

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyser shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

5.4.2. Test Procedures

- 1, The testing follows ANSI C63.26 Section 5.4
- 2, The signal analyzer's automatic measurement capability was used to perform the 99% occupied bandwidth and the 26dB emission bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 3, RBW $\geq 1\% - 5\%$ of the expected OBW.
- 4, VBW $\geq 3 * \text{RBW}$
- 5, Detector=Peak
- 6, Trace Mode= Max Hold.
- 7, Sweep Time=Auto
- 8, The trace was allowed to stabilize.
- 9, If necessary, steps 2-7 were repeated after changing the RBW such that it would be within 1%-5% of the 99% occupied bandwidth observed in step 7.

5.5. Conducted Band Edge Measurement

5.5.1. Description of Conducted Band Edge Measurement

The transmitter output was connected to a calibrated coaxial cable, attenuator and spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emissions are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyser was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

5.5.2. Test Procedures

- 1, The testing follows ANSI C63.26 Section 5.7
- 2, Start and stop frequency were set such that the band edge would be placed in the centre of the spectrum analyzer screen.

- 3, Span was set large enough to capture all out of band emissions near the band edge.
- 4, RBW $\geq 1\%$ of the emission bandwidth (2% of the emission bandwidth for n7/n38/n41 except when 1MHz band is 2495-2496MHz);
- 5, VBW $\geq 3 * \text{RBW}$
- 6, Detector=RMS
- 7, Trace Mode=Trace Average for continuous emissions, Max Hold for pulse emissions.
- 8, Sweep Points $\geq 2 * \text{Span/RBW}$
- 9, Sweep Time = Auto
- 10, The trace was allowed to stabilize.

5.6. Conducted Spurious Emission Measurement

5.6.1. Description of Conducted Spurious Emission Measurement

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyser. The spectrum is scanned from 9KHz up to a frequency including its 10th harmonic or 40GHz, which is lower.

5.6.2. Test Procedures

- 1, The testing follows ANSI C63.26 Section 5.7
- 2, RBW $\geq 100\text{KHz}$ for emissions below 1GHz, 1MHz for emissions above 1GHz.
- 3, VBW $\geq 3 * \text{RBW}$
- 4, Detector = RMS
- 5, Trace Mode = Average.
- 6, Sweep Points $\geq 2 * \text{Span/RBW}$
- 7, Sweep Time = Auto
- 8, The trace was allowed to stabilize.

6. List of Measuring Equipment

Equipment	Model	Manufacture	Device No.	Cal Date	Cal Due
Radio Communication Analyzer	MT8000A	Anritsu	6272478367	2023-12-07	2024-12-06
	MT8821C	Anritsu	6272498303	2023-12-07	2024-12-06
Spectrum Analyzer (50Hz-40GHz)	FSV	R&S	101046	2023-12-07	2024-12-06
Power Supply	2036	Keithley	4058748	2023-12-07	2024-12-06
Temperature Chamber	C/64/40/3	Weiss	56246017780020	2023-04-07	2024-04-06
Power Divider	-	WOKEN	0120A04051801O	NCR	
Power Divider	-	WOKEN	0120A02056002D	NCR	

Remark:

- 1, For equipment listed above that has a calibration date or calibration due date that falls within the test date range, and the equipment was used after calibrate date and before calibrate due date.
- 2, “NCR” means no calibration required.

7. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26. All the measurement uncertainties value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be directly to specified limit to determine compliance.

7.1. Uncertainty of Conducted Measurement

Contribution	Expanded Uncertainty
Conducted Power	± 0.77
Conducted Emission	± 0.76
Channel Bandwidth	± 0.08%

8. Appendixes

Appendix B.1	NR Band n2A (1850-1910)
Appendix B.2	NR Band n5A (824-849)
Appendix B.3	NR Band n7A (2500-2570)
Appendix B.4	NR Band n26A (814-824)
Appendix B.5	NR Band n26A (824-849)
Appendix B.6	NR Band n38A (2570-2620)
Appendix B.7	NR Band n41A (2496-2690)
Appendix B.8	NR Band n66A (1710-1780)
Appendix B.9	NR Band n78A (3450-3550)
Appendix B.10	NR Band DC_7A_n2A (1850-1910)
Appendix B.11	NR Band DC_2A_n7A (2500-2570)
Appendix B.12	NR Band DC_2A_n66A (1710-1780)
Appendix B.13	NR Band DC_5A_n78A (3450-3550)

The End