FCC RF Test Report

APPLICANT	:	ASUSTeK COMPUTER INC.
EQUIPMENT	:	ASUS Phone(Mobile Phone)
BRAND NAME	:	ASUS
MODEL NAME	:	ASUS_AI2401_E
FCC ID	:	MSQAI2401
STANDARD	:	47 CFR Part 2, 22, 24, 27
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Dec. 18, 2023

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG391308O	Rev. 01	Initial issue of report	Jan. 18, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(h) §27.53(g)	Radiated Spurious Emission (5G NR n5) (5G NR n2, n25) (5G NR n66) (5G NR n12)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 1.21 dB at 6916.41 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< $55+10\log_{10}$(P[Watts])		
	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission (5G NR n30)	< $70+10\log_{10}$(P[Watts])		
	§2.1053 §27.53(l)(2) §27.53 (n)(2)	Radiated Spurious Emission (5G NR n77)	-13dBm/MHz		

Remark 1 : The test items of inter band CA were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR.

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.2 Manufacturer

ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone(Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_AI2401_E
FCC ID	MSQAI2401
IMEI Code	Radiation: 356313810100674/356313810100682
HW Version	R2.0
SW Version	Android 14
EUT Stage	Identical Prototype

Remark: There are four SKUs of EUT for this project. The differences between them are summary below, According to the difference, we evaluate SKU1 to perform full test.

Sample list				
	SKU1	**SKU2**	**SKU3**	**SKU4**
Model	**ASUS_AI2401_E**	**ASUS_AI2401_E**	**ASUS_AI2401_E**	**ASUS_AI2401_E**
Config.	US(Pro)	US(Enrty)	US(Pro)	US(Enrty)
RF module board	US(Pro)	US(Enrty)	US(Pro)	US(Enrty)
LCD+Touch front frame module	AI2401 FRONT CASE ASSY	AI2401 FRONT CASE ASSY	AI2401 FRONT CASE ASSY	AI2401 FRONT CASE ASSY
DDR	16G(HYNIX) HYNIX / H58G76BK8HX095	16G(Micron) Micron / MT62F2G64D8ZA-023 WT:C	16G(HYNIX) HYNIX / H58G76BK8HX095	16G(Micron) Micron / MT62F2G64D8ZA-023 WT:C
UFS	1TB(Samsung) Samsung / KLUGGARHHD-B0G1	512G(HYNIX) (UFS4.0) HYNIX / HN8T274EJKX130	1TB(Samsung) Samsung / KLUGGARHHD-B0G1	512G(HYNIX) (UFS4.0) HYNIX / HN8T274EJKX130
MB	AI2401_MB	AI2401_MB	AI2401_MB	AI2401_MB
Back cover SKU	WW Pro(Mini LED)	WW Entry(LGF)	WW Pro(Mini LED)	WW Entry(LGF)
Battery	SCUD / C21P2301	SCUD / C21P2301	SCUD / C21P2301	SCUD / C21P2301
Main 50+13M	SHINETECH / DDN03B	RAYPRUS / CASDJ-000A	RAYPRUS / CASDJ-000A	SHINETECH / DDN03B
Tele 32M	Kunshan Q-TECH / C3HS01	SHINETECH / DHG01B	SHINETECH / DHG01B	Kunshan Q-TECH / C3HS01
Front 32M	TSPRECISION / TVHF3046	RAYPRUS / CASG-000A	RAYPRUS / CASG-000A	TSPRECISION / TVHF3046
PCB	COMPEQ	COMPEQ	COMPEQ	COMPEQ
CPU	QUALCOMM SM-8650 MPSP1629	QUALCOMM SM-8650 MPSP1629	QUALCOMM SM-8650 MPSP1629	QUALCOMM SM-8650 MPSP1629
WPC antenna	ASAP	INPAQ	INPAQ	ASAP

NFC antenna	ASAP	INPAQ	INPAQ	ASAP
WWAN/WLAN /BT/GPS antenna	INPAQ	ASAP	ASAP	INPAQ

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n30 : 2305 MHz ~ 2315MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n77(Part 27O): 3700 MHz ~ 3980 MHz 5G NR n77(Part 27Q): 3450 MHz ~ 3550 MHz
Rx Frequency	5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n12: 729 MHz ~ 746 MHz 5G NR n25 : 1930 MHz ~ 1995 MHz 5G NR n30 : 2350 MHz ~ 2360 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2200 MHz 5G NR n77(Part 27O): 3700 MHz ~ 3980 MHz 5G NR n77(Part 27Q): 3450 MHz ~ 3550 MHz
Bandwidth	n2, n5: 5MHz / 10MHz / 15MHz / 20MHz n12: 5MHz / 10MHz / 15MHz n25, n66: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n30: 5MHz / 10MHz n41, n77 : 10MHz / 15MHz / 20MHz /25MHz / 30MHz /40MHz / 50MHz / 60MHz / 70MHz /80MHz / 90MHz / 100MHz
SCS	15kHz for n2, n5, n12, n25, 30, 66 30kHz for n41, n77
Uplink CA Bands	n2A-n5A / n2A-n66A / n2A-n12A / n2A-n30A / n2A-n77A n5A-n30A / n5A-n66A / n5A-n77A n12A-n30A / n12A-n66A / n12A-n77A n25A-n41A n30A-n66A / n30A-n77A n66A-n77A
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

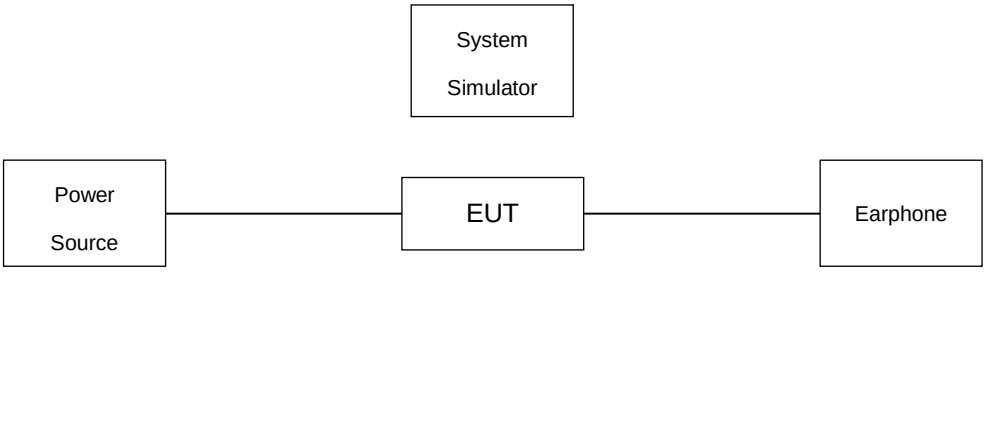
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16 QAM	64 QAM	256 QAM	1	Full	L	M	H
Radiated Spurious Emission	n2A-n5A	Worst Case																					v	
	n2A-n66A	Worst Case																					v	
	n2A-n12A	Worst Case																					v	
	n2A-n30A	Worst Case																					v	
	n5A-n30A	Worst Case																					v	
	n5A-n66A	Worst Case																					v	
	n12A-n30A	Worst Case																					v	
	n12A-n66A	Worst Case																					v	
	n25A-n41A	Worst Case																					v	
	n30A-n66A	Worst Case																					v	
	n2A-n77A	Worst Case																					v	
	n5A-n77A	Worst Case																					v	
	n12A-n77A	Worst Case																					v	
	n30A-n77A	Worst Case																					v	
	n66A-n77A	Worst Case																					v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability：Normal Voltage = 7.78V ；Low Voltage =7.30V.；High Voltage =8.70V																							

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	N/A	N/A	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR n5 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n12 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	390000	392500	395000
	Frequency	1870	1882.5	1895
30	Channel	389000	392500	396000
	Frequency	1865	1882.5	1900
25	Channel	388500	392500	396500
	Frequency	1862.5	1882.5	1902.5
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

5G NR n30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	462000	-
	Frequency	-	2310.0	-
5	Channel	461500	462000	462500
	Frequency	2307.5	2310.0	2312.5

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996

	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
25	Channel	501702	518598	535500
	Frequency	2508.51	2592.99	2677.5
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR n66 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G n77 Channel and Frequency List (Part 27Q)				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

5G n77 Channel and Frequency List (Part 27O)				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

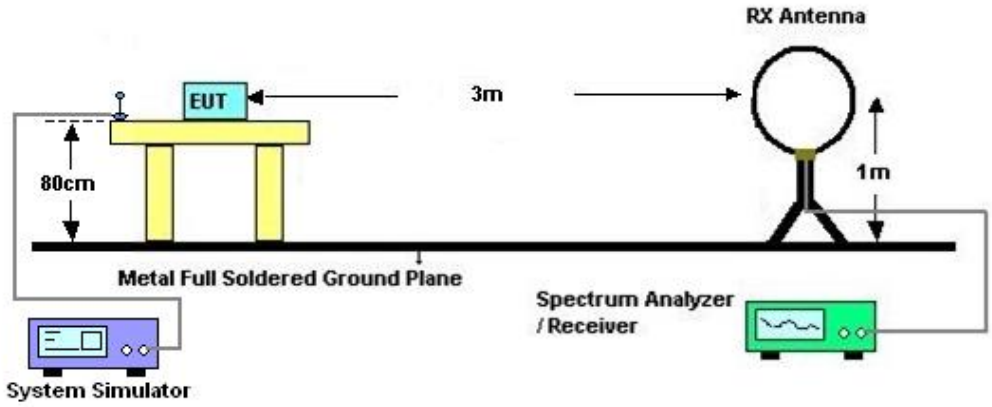
3 Radiated Test Items

3.1 Measuring Instruments

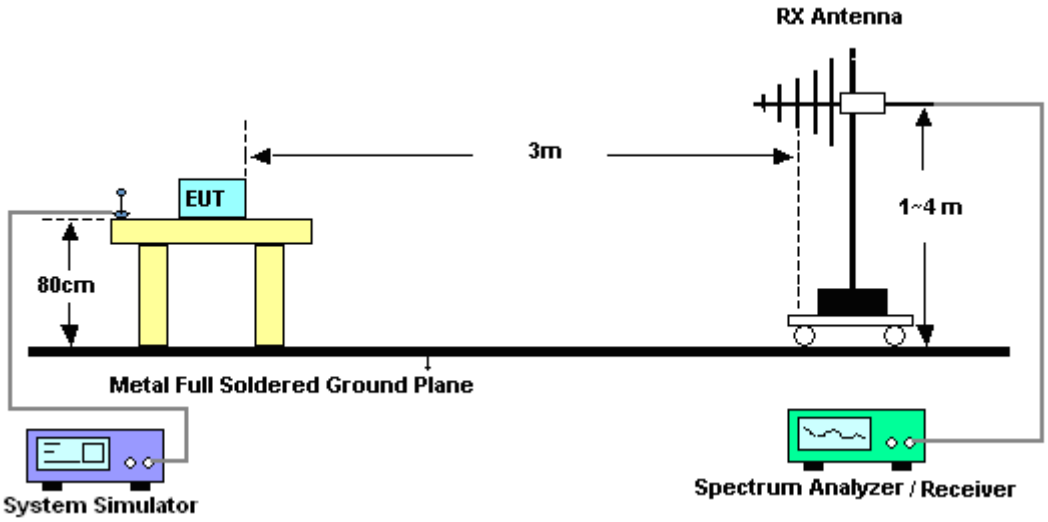
See list of measuring instruments of this test report.

3.2 Test Setup

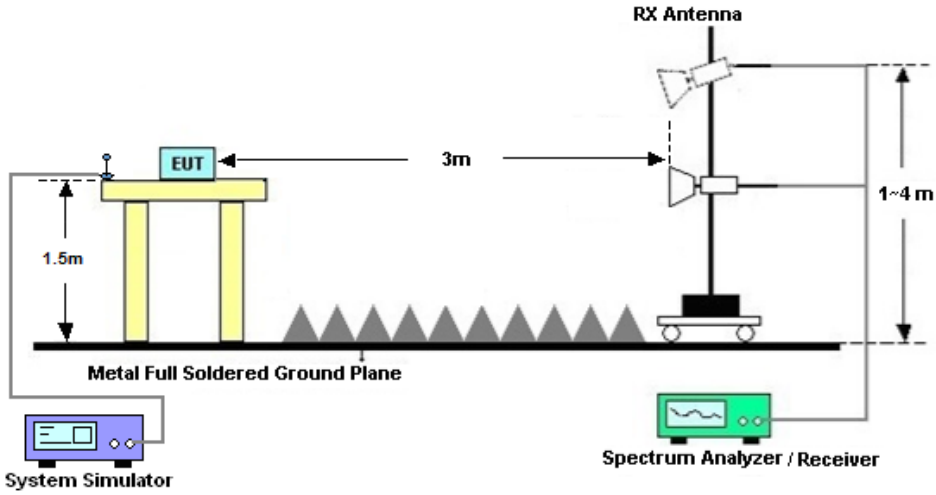
3.2.1 For radiated test below 30MHz



3.2.2 For radiated test from 30MHz to 1GHz



3.2.3 For radiated test above 1GHz



3.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix A.

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For 5G NR n30

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

For 5G NR n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023	Dec. 18, 2023	Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023	Dec. 18, 2023	Apr. 03, 2024	Radiation (03CH03-SZ
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Dec. 18, 2023	Jun. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Dec. 18, 2023	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023	Dec. 18, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Dec. 18, 2023	Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Dec. 18, 2023	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Dec. 18, 2023	Jul. 06, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	Dec. 18, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Dec. 18, 2023	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 18, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 18, 2023	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty 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 compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.0dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.6dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.8dB**

Appendix A. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	22~25℃
		Relative Humidity :	48~52%

Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test and record in the report.

ULCA_ n2A- n5A (ANT1+0)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-61.88	-13	-48.88	-75.66	-68.63	5.85	12.60	H
	5612.25	-61.44	-13	-48.44	-77.88	-67.24	7.30	13.10	H
	7483	-56.59	-13	-43.59	-77.87	-59.74	8.35	11.50	H
	3741.5	-61.77	-13	-48.77	-75.76	-68.52	5.85	12.60	V
	5612.25	-61.74	-13	-48.74	-78.09	-67.54	7.30	13.10	V
	7483	-56.61	-13	-43.61	-77.83	-59.76	8.35	11.50	V
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-67.93	-13	-54.14	-72.93	-70.39	4.00	9.40	H
	2481.75	-65.16	-13	-53.07	-74.18	-69.64	4.88	10.60	H
	3309	-64.06	-13	-51.68	-75.50	-69.61	5.52	12.60	H
	1654.5	-68.44	-13	-54.40	-73.29	-70.65	4.00	9.40	V
	2481.75	-65.03	-13	-52.60	-74.41	-69.17	4.88	10.60	V
	3309	-63.71	-13	-50.93	-75.59	-68.86	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n2A- n66A (ANT1+7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-60.77	-13	-47.77	-74.55	-67.52	5.85	12.60	H
	5612.25	-53.89	-13	-40.89	-70.33	-59.69	7.30	13.10	H
	7483	-57.67	-13	-44.67	-78.95	-60.82	8.35	11.50	H
	3741.5	-59.83	-13	-46.83	-73.82	-66.58	5.85	12.60	V
	5612.25	-57.00	-13	-44.00	-73.35	-62.80	7.30	13.10	V
	7482	-57.42	-13	-44.42	-78.64	-60.57	8.35	11.50	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-57.00	-13	-44.00	-68.87	-63.85	5.65	12.50	H
	5178	-62.29	-13	-49.29	-78.51	-67.96	7.13	12.80	H
	6904	-54.47	-13	-41.47	-74.22	-57.87	8.40	11.80	H
	3452	-56.84	-13	-43.84	-69.26	-63.69	5.65	12.50	V
	5178	-62.41	-13	-49.41	-78.57	-68.08	7.13	12.80	V
	6904	-56.84	-13	-43.84	-76.52	-60.24	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n2A- n12A (ANT1+0)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-62.73	-13	-49.73	-76.51	-69.48	5.85	12.60	H
	5612.25	-62.28	-13	-49.28	-78.72	-68.08	7.30	13.10	H
	7483	-57.46	-13	-44.46	-78.74	-60.61	8.35	11.50	H
	3741.5	-62.65	-13	-49.65	-76.64	-69.40	5.85	12.60	V
	5612.25	-62.26	-13	-49.26	-78.61	-68.06	7.30	13.10	V
	7483	-57.63	-13	-44.63	-78.85	-60.78	8.35	11.50	V
NR n12 BW 15MHz Middle 1RB0,QPSK	1401.08	-65.67	-13	-52.67	-72.64	-68.92	4.00	9.40	H
	2101.6	-65.73	-13	-52.73	-74.15	-69.30	4.88	10.60	H
	2802.16	-64.50	-13	-51.50	-75.26	-69.43	5.52	12.60	H
	1401.08	-65.53	-13	-52.53	-72.57	-68.78	4.00	9.40	V
	2101.6	-65.87	-13	-52.87	-74.66	-69.44	4.88	10.60	V
	2802.16	-64.28	-13	-51.28	-75.27	-69.21	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n2A- n30A (ANT1+7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3746	-64.67	-13	-51.67	-55.20	-71.42	5.85	12.60	H
	5619	-63.00	-13	-50.00	-55.62	-68.80	7.30	13.10	H
	7492	-58.59	-13	-45.59	-55.75	-61.74	8.35	11.50	H
	3746	-64.68	-13	-51.68	-55.42	-71.43	5.85	12.60	V
	5619	-63.08	-13	-50.08	-55.61	-68.88	7.30	13.10	V
	7492	-59.01	-13	-46.01	-56.09	-62.16	8.35	11.50	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-60.93	-40	-20.93	-53.72	-67.18	6.45	12.70	H
	6916.41	-41.48	-40	-1.48	-36.87	-44.88	8.40	11.80	H
	9221.88	-55.77	-40	-15.77	-56.85	-58.12	9.65	12.00	H
	4610.94	-61.37	-40	-21.37	-54.01	-67.62	6.45	12.70	V
	6916.41	-44.06	-40	-4.06	-39.41	-47.46	8.40	11.80	V
	9221.88	-56.12	-40	-16.12	-56.78	-58.47	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n5A- n30A (ANT0+1)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-61.52	-13	-54.14	-66.52	-70.39	4.00	9.40	H
	2481.75	-65.89	-13	-53.07	-74.91	-69.64	4.88	10.60	H
	3309	-64.27	-13	-51.68	-75.71	-69.61	5.52	12.60	H
	1654.5	-61.86	-13	-54.40	-66.71	-70.65	4.00	9.40	V
	2481.75	-65.63	-13	-52.60	-75.01	-69.17	4.88	10.60	V
	3309	-63.53	-13	-50.93	-75.41	-68.86	5.52	12.60	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-63.30	-40	-23.30	-56.09	-69.55	6.45	12.70	H
	6916.41	-41.21	-40	-1.21	-36.60	-44.61	8.40	11.80	H
	9221.88	-55.34	-40	-15.34	-56.42	-57.69	9.65	12.00	H
	4610.94	-63.21	-40	-23.21	-55.85	-69.46	6.45	12.70	V
	6916.41	-44.36	-40	-4.36	-39.71	-47.76	8.40	11.80	V
	9221.88	-55.59	-40	-15.59	-56.25	-57.94	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n5A- n66A (ANT0+1)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.1	-60.69	-13	-54.14	-65.69	-70.39	4.00	9.40	H
	2481.15	-65.41	-13	-53.07	-74.43	-69.64	4.88	10.60	H
	3308.2	-63.89	-13	-51.68	-75.34	-69.61	5.52	12.60	H
	1654.1	-59.73	-13	-54.40	-64.58	-70.65	4.00	9.40	V
	2481.15	-64.99	-13	-52.60	-74.37	-69.17	4.88	10.60	V
	3308.2	-63.49	-13	-50.93	-75.38	-68.86	5.52	12.60	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-64.14	-13	-51.14	-76.01	-70.99	5.65	12.50	H
	5178	-62.90	-13	-49.90	-79.12	-68.57	7.13	12.80	H
	6904	-59.46	-13	-46.46	-79.21	-62.86	8.40	11.80	H
	3452	-63.36	-13	-50.36	-75.78	-70.21	5.65	12.50	V
	5178	-63.08	-13	-50.08	-79.24	-68.75	7.13	12.80	V
	6904	-58.93	-13	-45.93	-78.61	-62.33	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n12A- n30A (ANT0+1)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1401.08	-54.57	-13	-41.57	-61.54	-57.82	4.00	9.40	H
	2101.6	-66.16	-13	-53.16	-74.58	-69.73	4.88	10.60	H
	2802.16	-64.10	-13	-51.10	-74.86	-69.03	5.52	12.60	H
	1401.08	-52.50	-13	-39.50	-59.54	-55.75	4.00	9.40	V
	2101.6	-65.44	-13	-52.44	-74.23	-69.01	4.88	10.60	V
	2802.16	-63.92	-13	-50.92	-74.91	-68.85	5.52	12.60	V
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-60.54	-40	-20.54	-76.56	-66.79	6.45	12.70	H
	6916.41	-41.65	-40	-1.65	-61.46	-45.05	8.40	11.80	H
	9221.88	-53.07	-40	-13.07	-78.71	-55.42	9.65	12.00	H
	4610.94	-60.32	-40	-20.32	-76.19	-66.57	6.45	12.70	V
	6916.41	-44.29	-40	-4.29	-64.06	-47.69	8.40	11.80	V
	9221.88	-53.76	-40	-13.76	-78.98	-56.11	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n12A- n66A (ANT0+1)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1406	-49.57	-13	-36.57	-56.48	-52.82	4.00	9.40	H
	2109	-66.87	-13	-53.87	-75.41	-70.44	4.88	10.60	H
	2812	-64.50	-13	-51.50	-75.28	-69.43	5.52	12.60	H
	1406	-52.50	-13	-39.50	-59.49	-55.75	4.00	9.40	V
	2109	-66.29	-13	-53.29	-75.20	-69.86	4.88	10.60	V
	2812	-63.97	-13	-50.97	-74.99	-68.90	5.52	12.60	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-64.05	-13	-51.05	-75.92	-70.90	5.65	12.50	H
	5178	-62.85	-13	-49.85	-79.07	-68.52	7.13	12.80	H
	6904	-59.28	-13	-46.28	-79.03	-62.68	8.40	11.80	H
	3452	-63.72	-13	-50.72	-76.14	-70.57	5.65	12.50	V
	5178	-62.83	-13	-49.83	-78.99	-68.50	7.13	12.80	V
	6904	-59.45	-13	-46.45	-79.13	-62.85	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n25A- n41A (ANT7+1)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 BW 40MHz Middle 1RB0,QPSK	3726.6	-55.50	-13	-42.50	-69.25	-62.25	5.85	12.60	H
	5589.9	-55.99	-13	-42.99	-72.39	-61.79	7.30	13.10	H
	7453.2	-54.10	-13	-41.10	-75.53	-57.25	8.35	11.50	H
	3726.6	-53.39	-13	-40.39	-67.39	-60.14	5.85	12.60	V
	5589.9	-56.06	-13	-43.06	-72.42	-61.86	7.30	13.10	V
	7453.2	-56.83	-13	-43.83	-78.23	-59.98	8.35	11.50	V
NR n41 BW 100MHz Middle 1RB0,QPSK	5089.00	-60.09	-25	-35.09	-76.17	-65.65	7.14	12.70	H
	7633.50	-55.32	-25	-30.32	-76.22	-58.62	8.30	11.60	H
	10178.00	-54.09	-25	-29.09	-79.58	-55.61	10.48	12.00	H
	5089.00	-59.65	-25	-34.65	-75.66	-65.21	7.14	12.70	V
	7633.50	-57.19	-25	-32.19	-77.9	-60.49	8.30	11.60	V
	10178.00	-54.70	-25	-29.70	-79.78	-56.22	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n30A- n66A (ANT1+7)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-56.61	-40	-16.61	-49.40	-62.86	6.45	12.70	H
	6916.41	-41.27	-40	-1.27	-36.66	-44.67	8.40	11.80	H
	9221.88	-55.77	-40	-15.77	-56.85	-58.12	9.65	12.00	H
	4610.94	-56.81	-40	-16.81	-49.45	-63.06	6.45	12.70	V
	6916.41	-44.83	-40	-4.83	-40.18	-48.23	8.40	11.80	V
	9221.88	-56.12	-40	-16.12	-56.78	-58.47	9.65	12.00	V
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-60.29	-13	-47.29	-48.87	-67.14	5.65	12.50	H
	5178	-62.86	-13	-49.86	-55.43	-68.53	7.13	12.80	H
	6904	-55.61	-13	-42.61	-50.96	-59.01	8.40	11.80	H
	3452	-62.14	-13	-49.14	-51.27	-68.99	5.65	12.50	V
	5178	-61.33	-13	-48.33	-53.84	-67.00	7.13	12.80	V
	6904	-56.83	-13	-43.83	-52.11	-60.23	8.40	11.80	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

<Part 27Q>:

ULCA_ n2A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-57.95	-13	-44.95	-71.73	-64.70	5.85	12.60	H
	5612.25	-36.12	-13	-23.12	-52.56	-41.92	7.30	13.10	H
	7483	-58.65	-13	-45.65	-55.84	-61.80	8.35	11.50	H
	3741.5	-57.64	-13	-44.64	-71.63	-64.39	5.85	12.60	V
	5612.25	-40.50	-13	-27.50	-56.85	-46.30	7.30	13.10	V
	7483	-59.14	-13	-46.14	-56.27	-62.29	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902	-58.97	-13	-45.97	-54.31	-60.49	11.98	13.50	H
	10353	-55.43	-13	-42.43	-56.55	-55.43	13.60	13.60	H
	13804	-50.87	-13	-37.87	-57.34	-50.47	15.50	15.10	H
	6902	-59.94	-13	-46.94	-55.2	-61.46	11.98	13.50	V
	10353	-55.65	-13	-42.65	-56.56	-55.65	13.60	13.60	V
	13804	-51.19	-13	-38.19	-57.35	-50.79	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n5A- n77A (ANT0+8)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-68.21	-13	-55.21	-73.21	-71.46	4.00	9.40	H
	2481.75	-65.30	-13	-52.30	-74.32	-68.87	4.88	10.60	H
	3309	-64.10	-13	-51.10	-75.54	-69.03	5.52	12.60	H
	1654.5	-68.38	-13	-55.38	-73.23	-71.63	4.00	9.40	V
	2481.75	-64.42	-13	-51.42	-73.80	-67.99	4.88	10.60	V
	3309	-63.71	-13	-50.71	-75.59	-68.64	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902	-60.87	-13	-47.87	-56.21	-62.39	11.98	13.50	H
	10353	-55.34	-13	-42.34	-56.46	-55.34	13.60	13.60	H
	13804	-51.64	-13	-38.64	-58.11	-51.24	15.50	15.10	H
	6902	-61.07	-13	-48.07	-56.33	-62.59	11.98	13.50	V
	10353	-55.19	-13	-42.19	-56.1	-55.19	13.60	13.60	V
	13804	-51.58	-13	-38.58	-57.74	-51.18	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n12A- n77A (ANT0+8)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1401.08	-64.41	-13	-51.41	-71.38	-67.66	4.00	9.40	H
	2101.6	-65.91	-13	-52.91	-74.33	-69.48	4.88	10.60	H
	2802.16	-64.15	-13	-51.15	-74.91	-69.08	5.52	12.60	H
	1401.08	-63.46	-13	-50.46	-70.50	-66.71	4.00	9.40	V
	2101.6	-65.41	-13	-52.41	-74.20	-68.98	4.88	10.60	V
	2802.16	-63.87	-13	-50.87	-74.86	-68.80	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902	-61.30	-13	-48.30	-56.64	-62.82	11.98	13.50	H
	10353	-55.52	-13	-42.52	-56.64	-55.52	13.60	13.60	H
	13804	-51.59	-13	-38.59	-58.06	-51.19	15.50	15.10	H
	6902	-61.34	-13	-48.34	-56.6	-62.86	11.98	13.50	V
	10353	-55.56	-13	-42.56	-56.47	-55.56	13.60	13.60	V
	13804	-52.02	-13	-39.02	-58.18	-51.62	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n30A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-54.56	-40	-14.56	-70.58	-60.81	6.45	12.70	H
	6916.41	-41.63	-40	-1.63	-37.02	-45.03	8.40	11.80	H
	9221.88	-56.41	-40	-16.41	-57.49	-58.76	9.65	12.00	H
	4610.94	-56.63	-40	-16.63	-72.5	-62.88	6.45	12.70	V
	6916.41	-45.62	-40	-5.62	-40.97	-49.02	8.40	11.80	V
	9221.88	-56.69	-40	-16.69	-57.35	-59.04	9.65	12.00	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902	-61.26	-13	-48.26	-56.60	-62.78	11.98	13.50	H
	10353	-55.68	-13	-42.68	-56.80	-55.68	13.60	13.60	H
	13804	-51.12	-13	-38.12	-57.59	-50.72	15.50	15.10	H
	6902	-61.29	-13	-48.29	-56.55	-62.81	11.98	13.50	V
	10353	-55.86	-13	-42.86	-56.77	-55.86	13.60	13.60	V
	13804	-51.41	-13	-38.41	-57.57	-51.01	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n66A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-64.30	-13	-51.30	-76.17	-71.15	5.65	12.50	H
	5178	-39.97	-13	-26.97	-56.19	-45.64	7.13	12.80	H
	6904	-58.79	-13	-45.79	-54.14	-62.19	8.40	11.80	H
	3452	-62.42	-13	-49.42	-74.84	-69.27	5.65	12.50	V
	5178	-40.59	-13	-27.59	-56.75	-46.26	7.13	12.80	V
	6904	-55.16	-13	-42.16	-50.44	-58.56	8.40	11.80	V
NR n77 BW 100MHz Middle 1RB0,QPSK	6902	-58.79	-13	-45.79	-54.13	-60.31	11.98	13.50	H
	10353	-55.35	-13	-42.35	-56.47	-55.35	13.60	13.60	H
	13804	-50.87	-13	-37.87	-57.34	-50.47	15.50	15.10	H
	6902	-55.16	-13	-42.16	-50.42	-56.68	11.98	13.50	V
	10353	-55.66	-13	-42.66	-56.57	-55.66	13.60	13.60	V
	13804	-51.36	-13	-38.36	-57.52	-50.96	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

<Part 27O>:

ULCA_ n2A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 BW 20MHz Middle 1RB0,QPSK	3741.5	-58.72	-13	-45.72	-72.50	-65.47	5.85	12.60	H
	5612.25	-40.54	-13	-27.54	-56.98	-46.34	7.30	13.10	H
	7483	-58.34	-13	-45.34	-55.53	-61.49	8.35	11.50	H
	3741.5	-59.49	-13	-46.49	-73.48	-66.24	5.85	12.60	V
	5612.25	-38.62	-13	-25.62	-54.97	-44.42	7.30	13.10	V
	7483	-58.87	-13	-45.87	-56	-62.02	8.35	11.50	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-58.87	-13	-45.87	-55.74	-60.39	11.98	13.50	H
	11376	-52.75	-13	-39.75	-58.42	-52.75	13.60	13.60	H
	15168	-53.53	-13	-40.53	-58.70	-53.13	15.50	15.10	H
	7584	-59.17	-13	-46.17	-55.83	-60.69	11.98	13.50	V
	11376	-52.83	-13	-39.83	-58.31	-52.83	13.60	13.60	V
	15168	-53.04	-13	-40.04	-58.52	-52.64	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n5A- n77A (ANT0+8)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 BW 20MHz Middle 1RB0,QPSK	1654.5	-67.78	-13	-54.78	-72.78	-71.03	4.00	9.40	H
	2481.75	-64.91	-13	-51.91	-73.93	-68.48	4.88	10.60	H
	3309	-63.59	-13	-50.59	-75.03	-68.52	5.52	12.60	H
	1654.5	-67.76	-13	-54.76	-72.61	-71.01	4.00	9.40	V
	2481.75	-64.35	-13	-51.35	-73.73	-67.92	4.88	10.60	V
	3309	-63.28	-13	-50.28	-75.16	-68.21	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-59.16	-13	-46.16	-56.03	-60.68	11.98	13.50	H
	11376	-53.11	-13	-40.11	-58.78	-53.11	13.60	13.60	H
	15168	-54.80	-13	-41.80	-59.97	-54.40	15.50	15.10	H
	7584	-58.94	-13	-45.94	-55.6	-60.46	11.98	13.50	V
	11376	-53.20	-13	-40.20	-58.68	-53.20	13.60	13.60	V
	15168	-54.58	-13	-41.58	-60.06	-54.18	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n12A- n77A (ANT0+8)									
Channel	Frequency (MHz)	EIRP/ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 BW 15MHz Middle 1RB0,QPSK	1401.08	-64.28	-13	-51.28	-71.25	-67.53	4.00	9.40	H
	2101.6	-65.73	-13	-52.73	-74.15	-69.30	4.88	10.60	H
	2802.16	-63.70	-13	-50.70	-74.46	-68.63	5.52	12.60	H
	1401.08	-63.13	-13	-50.13	-70.17	-66.38	4.00	9.40	V
	2101.6	-65.50	-13	-52.50	-74.29	-69.07	4.88	10.60	V
	2802.16	-63.91	-13	-50.91	-74.90	-68.84	5.52	12.60	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-59.29	-13	-46.29	-56.16	-60.81	11.98	13.50	H
	11376	-53.28	-13	-40.28	-58.95	-53.28	13.60	13.60	H
	15168	-54.80	-13	-41.80	-59.97	-54.40	15.50	15.10	H
	7584	-59.45	-13	-46.45	-56.11	-60.97	11.98	13.50	V
	11376	-53.50	-13	-40.50	-58.98	-53.50	13.60	13.60	V
	15168	-54.34	-13	-41.34	-59.82	-53.94	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n30A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n30 BW 10MHz Middle 1RB0,QPSK	4610.94	-54.42	-40	-14.42	-70.44	-60.67	6.45	12.70	H
	6917.50	-41.47	-40	-1.47	-36.86	-44.87	8.40	11.80	H
	9221.88	-55.98	-40	-15.98	-57.06	-58.33	9.65	12.00	H
	4610.94	-55.47	-40	-15.47	-71.34	-61.72	6.45	12.70	V
	6916.41	-46.02	-40	-6.02	-41.37	-49.42	8.40	11.80	V
	9221.88	-56.53	-40	-16.53	-57.19	-58.88	9.65	12.00	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-58.61	-13	-45.61	-55.48	-60.13	11.98	13.50	H
	11376	-52.54	-13	-39.54	-58.21	-52.54	13.60	13.60	H
	15168	-53.32	-13	-40.32	-58.49	-52.92	15.50	15.10	H
	7584	-58.84	-13	-45.84	-55.5	-60.36	11.98	13.50	V
	11376	-52.60	-13	-39.60	-58.08	-52.60	13.60	13.60	V
	15168	-52.81	-13	-39.81	-58.29	-52.41	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

ULCA_ n66A- n77A (ANT1+8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 BW 40MHz Middle 1RB0,QPSK	3452	-59.89	-13	-46.89	-71.76	-66.74	5.65	12.50	H
	5178	-40.44	-13	-27.44	-56.66	-46.11	7.13	12.80	H
	6904	-59.24	-13	-46.24	-54.59	-62.64	8.40	11.80	H
	3452	-57.89	-13	-44.89	-70.31	-64.74	5.65	12.50	V
	5178	-41.45	-13	-28.45	-57.61	-47.12	7.13	12.80	V
	6904	-58.99	-13	-45.99	-54.27	-62.39	8.40	11.80	V
NR n77 BW 100MHz Middle 1RB0,QPSK	7584	-59.19	-13	-46.19	-56.06	-60.71	11.98	13.50	H
	11376	-53.01	-13	-40.01	-58.68	-53.01	13.60	13.60	H
	15168	-53.40	-13	-40.40	-58.57	-53.00	15.50	15.10	H
	7584	-59.24	-13	-46.24	-55.9	-60.76	11.98	13.50	V
	11376	-53.10	-13	-40.10	-58.58	-53.10	13.60	13.60	V
	15168	-53.08	-13	-40.08	-58.56	-52.68	15.50	15.10	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.