



FCC RADIO TEST REPORT

FCC ID : 2AQ68T99W373
Equipment : 5G WWAN Module
Brand Name : Foxconn
Model Name : T99W373
Applicant : Hon Lin Technology Co., Ltd
11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114,
Taiwan R.O.C.
Manufacturer : Hon Lin Technology Co., Ltd
11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114,
Taiwan R.O.C.
Standard : FCC 47 CFR Part 2, 96

The product was received on Mar. 28, 2023 and testing was performed from Jun. 06, 2023 to Jul. 04, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG262904-05B	01	Initial issue of report	Aug. 03, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Required	-
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§2.1049 §96.41	Occupied Bandwidth	Not Required	-
-	§2.1051 §96.41	Conducted Band Edge Measurement	Not Required	-
-	§2.1051 §96.41	Conducted Spurious Emission	Not Required	-
-	§2.1055	Frequency Stability for Temperature & Voltage	Not Required	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	16.50 dB under limit at 14429.00 MHz

Note:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by adding ENDC and CA function. All the test cases were performed on original report which can be referred to FCC ID: 2AQ68T99W373. Based on the original report, the test cases were verified.

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.

Reviewed by: Keven Cheng

Report Producer: Michelle Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs WCDMA/LTE/5G NR and GNSS

The following antennas were provided to the EUT

	Band	Brand	Model	Antenna Type	RF Exposure Max Antenna Gain(dBi)
5G NR	n48	WHA YU	C107-511725-A	PIFA	1

Remark: The above EUT's information was declared by manufacturer and used for Radiated Spurious Emission test.

There are two different HW of T99W373

Brand	Model	HW
Foxconn	T99W373	WCDMA+LTE+Sub6+eSIM
		WCDMA+LTE+Sub6+w/o eSIM

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Jimmy Chang and Ivy Yeh
Temperature (°C)	23.5~24.1
Relative Humidity (%)	48~52

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Wilson Wu, Jesse Fan and Tim Lee
Temperature (°C)	20~25
Relative Humidity (%)	50~60
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.4 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

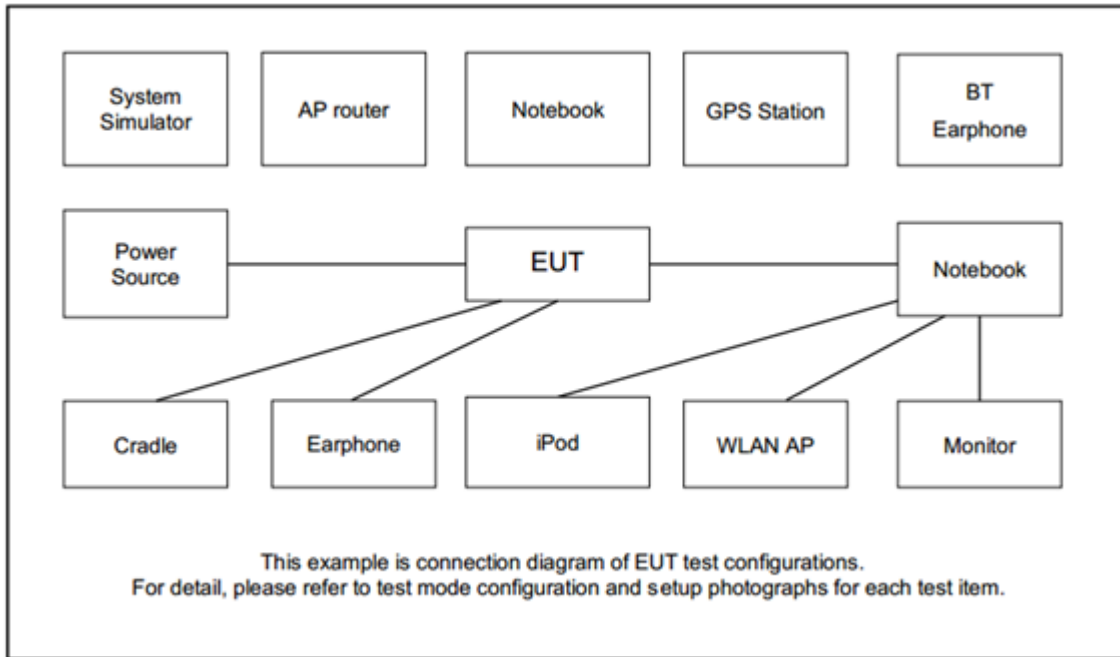
2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	Band	Bandwidth (MHz)				Modulation					RB #			Test Channel		
		10	20	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n48	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P	n48	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	n48	Worst Case											v	v	v	
Remark	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant. For 5G NR test combination are EN-DC 5A_n48A and EN-DC 2A_n48A. 															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	5G Wireless Test Platform	Keysight	E7515B	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
4.	Fixture	Foxconn	95.2580T00	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

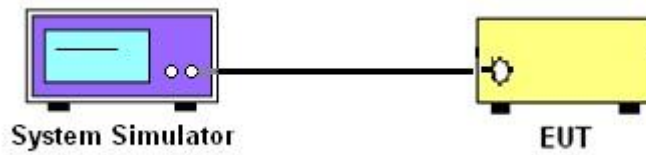
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for 5G NR n48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

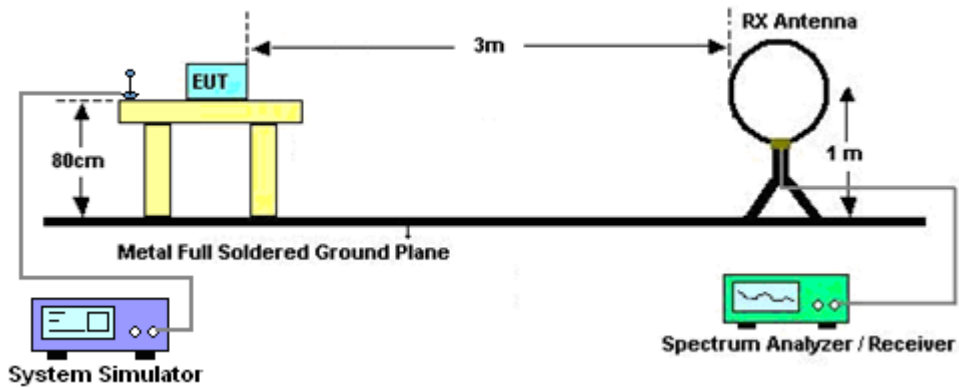
4 Radiated Test Items

4.1 Measuring Instruments

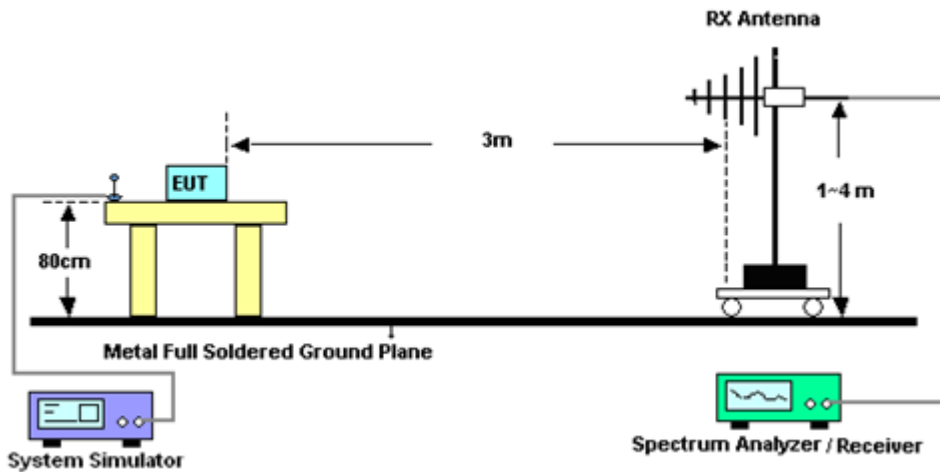
See list of measuring instruments of this test report.

4.2 Test Setup

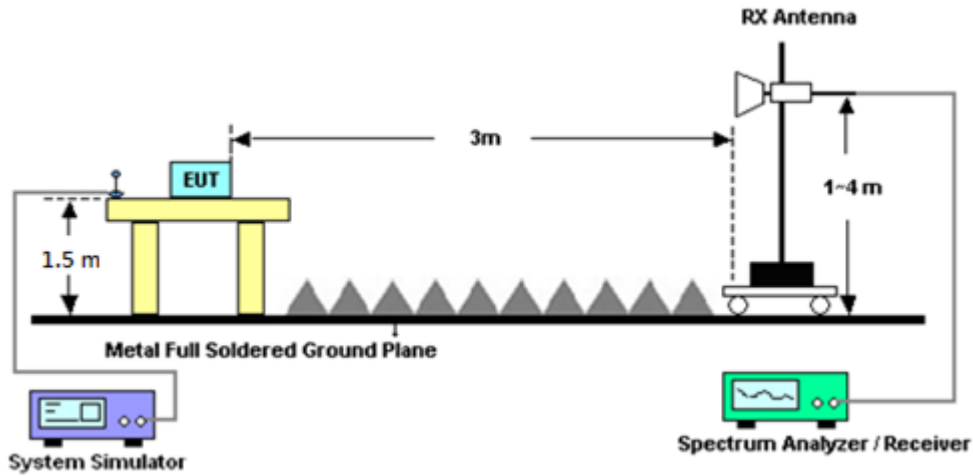
For radiated emissions below 30MHz



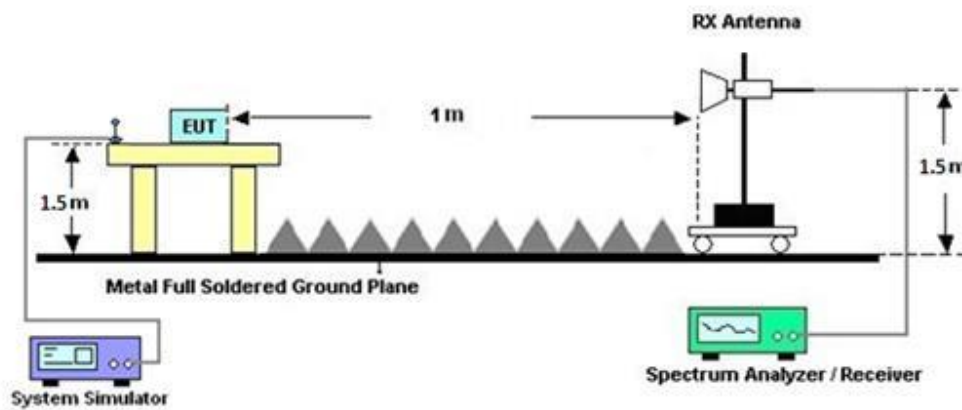
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 -40dBm / MHz .

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

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

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



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 28, 2023	Jul. 03, 2023 ~ Jul. 04, 2023	Mar. 27, 2024	Conducted (TH03-HY)
Radio Communication Test Station	Anritsu	MT8000A	6272337370	N/A	Oct. 28, 2022	Jul. 03, 2023 ~ Jul. 04, 2023	Oct. 27, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116725	LTE FDD/TDD LTE-3CC DLCA/2CC ULCA	Oct. 13, 2022	Jul. 03, 2023 ~ Jul. 04, 2023	Oct. 12, 2023	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Jun. 06, 2023~ Jun. 26, 2023	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Jun. 06, 2023~ Jun. 26, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	Jun. 06, 2023~ Jun. 26, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Jun. 06, 2023~ Jun. 26, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Jun. 06, 2023~ Jun. 26, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Jun. 06, 2023~ Jun. 26, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Jun. 06, 2023~ Jun. 26, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Jun. 06, 2023~ Jun. 26, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Jun. 06, 2023~ Jun. 26, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080-12 00-15000-60SS	SN1	1.2GHz High Pass Filter	Mar. 14, 2023	Jun. 06, 2023~ Jun. 26, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Jun. 06, 2023~ Jun. 26, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Jun. 06, 2023~ Jun. 26, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Jun. 06, 2023~ Jun. 26, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Jun. 06, 2023~ Jun. 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Jun. 06, 2023~ Jun. 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Jun. 06, 2023~ Jun. 26, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Oct. 03, 2022	Jun. 06, 2023~ Jun. 26, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 06, 2023~ Jun. 26, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 06, 2023~ Jun. 26, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 06, 2023~ Jun. 26, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jun. 06, 2023~ Jun. 26, 2023	N/A	Radiation (03CH12-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.25 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.81 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n48 Maximum Average Power [dBm] (GT - LC = 1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	21.04	21.23	21.27	22.37	0.1726
10	1	22		21.04	21.24	21.29		
10	12	6		21.16	21.27	21.36		
10	1	0		20.64	20.78	20.86		
10	1	23		20.65	20.81	20.85		
10	24	0		20.75	20.90	20.95		
10	1	1	QPSK	21.04	21.30	21.37		
10	1	22		21.17	21.31	21.29		
10	12	6		21.14	21.29	21.33		
10	1	0		20.19	20.30	20.46		
10	1	23		20.10	20.35	20.31		
10	24	0		20.25	20.42	20.47		
10	1	1	16-QAM	20.08	20.37	20.30	21.37	0.1371
10	1	1	64-QAM	18.82	18.81	18.90		
10	1	1	256-QAM	16.68	16.92	16.91		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

NR n48 Maximum Average Power [dBm] (GT - LC = 1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	21.29	21.41	21.27	22.45	0.1758
20	1	49		21.35	21.39	21.29		
20	25	12		21.36	21.45	21.42		
20	1	0		20.85	20.97	20.90		
20	1	50		20.87	20.97	20.93		
20	50	0		20.93	21.00	20.95		
20	1	1	QPSK	21.30	21.39	21.34		
20	1	49		21.30	21.35	21.30		
20	25	12		21.40	21.44	21.39		
20	1	0		20.43	20.45	20.43		
20	1	50		20.41	20.48	20.38		
20	50	0		20.43	20.50	20.47		
20	1	1	16-QAM	20.47	20.38	20.49	21.49	0.1409
20	1	1	64-QAM	18.95	19.03	18.87		
20	1	1	256-QAM	16.71	16.70	16.68		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



NR n48 Maximum Average Power [dBm] (GT - LC = 1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	21.37	21.56	21.52	22.58	0.1811
30	1	76		21.44	21.45	21.44		
30	36	18		21.39	21.52	21.43		
30	1	0		20.98	21.23	21.11		
30	1	77		20.99	21.03	21.06		
30	75	0		21.00	21.10	21.14		
30	1	1	QPSK	21.34	21.58	21.51		
30	1	76		21.41	21.41	21.46		
30	36	18		21.33	21.49	21.48		
30	1	0		20.45	20.67	20.56		
30	1	77		20.48	20.52	20.50		
30	75	0		20.44	20.62	20.63		
30	1	1	16-QAM	20.45	20.67	20.54	21.67	0.1469
30	1	1	64-QAM	18.94	19.12	19.18		
30	1	1	256-QAM	16.72	16.91	16.90		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

NR n48 Maximum Average Power [dBm] (GT - LC = 1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	21.50	21.54	21.40	22.62	0.1828
40	1	104		21.55	21.49	21.50		
40	50	25		21.49	21.42	21.48		
40	1	0		21.09	21.02	20.96		
40	1	105		21.11	21.16	21.12		
40	100	0		21.17	21.13	20.98		
40	1	1	QPSK	21.48	21.62	21.43		
40	1	104		21.56	21.55	21.41		
40	50	25		21.53	21.47	21.42		
40	1	0		20.59	20.60	20.55		
40	1	105		20.63	20.64	20.54		
40	100	0		20.62	20.67	20.50		
40	1	1	16-QAM	20.52	20.64	20.47	21.64	0.1459
40	1	1	64-QAM	19.07	19.14	18.93		
40	1	1	256-QAM	16.86	16.89	16.83		
Limit	EIRP < 23dBm/10MHz			Result			Pass	



Appendix B. Test Results of Radiated Test
 <Ant. 0 + Ant. 2>

EN-DC 5A-n48A

EN-DC 5A-n48A / 10+40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7105	-62.86	-40	-22.86	-56.44	-72.24	1.30	10.68	H
	10657	-59.77	-40	-19.77	-57.26	-70.13	1.57	11.93	H
	14209	-58.97	-40	-18.97	-59.12	-69.88	1.87	12.78	H
	21314	-70.86	-40	-30.86	-78.43	-87.47	2.25	18.86	H
	24866	-68.04	-40	-28.04	-78.72	-84.88	2.22	19.06	H
	28418	-65.51	-40	-25.51	-77.26	-81.77	2.87	19.13	H
									H
	7105	-61.65	-40	-21.65	-56.68	-71.03	1.30	10.68	V
	10657	-60.66	-40	-20.66	-56.94	-71.02	1.57	11.93	V
	14209	-58.41	-40	-18.41	-58.75	-69.32	1.87	12.78	V
	21314	-70.34	-40	-30.34	-78.36	-86.95	2.25	18.86	V
	24866	-67.53	-40	-27.53	-78.65	-84.37	2.22	19.06	V
	28418	-65.38	-40	-25.38	-77.55	-81.64	2.87	19.13	V
									V
Middle	7215	-63.22	-40	-23.22	-56.69	-72.26	1.30	10.35	H
	10822	-58.80	-40	-18.80	-56.57	-69.27	1.59	12.06	H
	14429	-58.52	-40	-18.52	-58.81	-69.46	1.93	12.87	H
	18036	-68.02	-40	-28.02	-73.6	-84.22	2.00	18.20	H
	21644	-69.57	-40	-29.57	-77.33	-86.33	2.11	18.87	H
	25251	-67.66	-40	-27.66	-78.26	-84.48	2.29	19.10	H
									H
	7215	-61.94	-40	-21.94	-56.83	-70.98	1.30	10.35	V
	10822	-59.87	-40	-19.87	-56.58	-70.34	1.59	12.06	V
	14429	-58.26	-40	-18.26	-58.89	-69.20	1.93	12.87	V
	18036	-68.05	-40	-28.05	-73.67	-84.25	2.00	18.20	V
	21644	-68.26	-40	-28.26	-76.51	-85.02	2.11	18.87	V
	25251	-67.17	-40	-27.17	-78.23	-83.99	2.29	19.10	V
									V



Highest	7325	-61.56	-40	-21.56	-55.31	-70.91	1.33	10.68	H
	10987	-58.94	-40	-18.94	-56.98	-69.51	1.62	12.19	H
	14649	-58.55	-40	-18.55	-59.35	-69.74	1.94	13.14	H
	18311	-69.90	-40	-29.90	-75.34	-85.89	2.21	18.20	H
	21974	-71.08	-40	-31.08	-78.45	-87.65	2.24	18.81	H
	25636	-66.82	-40	-26.82	-77.49	-83.78	2.40	19.35	H
									H
	7325	-60.39	-40	-20.39	-55.23	-69.74	1.33	10.68	V
	10987	-59.87	-40	-19.87	-56.99	-70.44	1.62	12.19	V
	14649	-58.04	-40	-18.04	-59.12	-69.23	1.94	13.14	V
	18311	-69.18	-40	-29.18	-74.69	-85.17	2.21	18.20	V
	21974	-69.82	-40	-29.82	-77.67	-86.39	2.24	18.81	V
	25636	-66.36	-40	-26.36	-77.52	-83.32	2.40	19.35	V
									V

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



<Ant. 2 + Ant. 0>

EN-DC 2A-n48A

EN-DC 2A-n48A / 10+40MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7105	-61.34	-40	-21.34	-54.92	-70.72	1.30	10.68	H
	10657	-57.94	-40	-17.94	-55.43	-68.30	1.57	11.93	H
	14209	-57.04	-40	-17.04	-57.19	-67.95	1.87	12.78	H
	21314	-69.41	-40	-29.41	-76.98	-86.02	2.25	18.86	H
	24866	-67.04	-40	-27.04	-77.72	-83.88	2.22	19.06	H
	28418	-65.15	-40	-25.15	-76.9	-81.41	2.87	19.13	H
									H
	7105	-60.30	-40	-20.30	-55.34	-69.68	1.30	10.68	V
	10657	-59.50	-40	-19.50	-55.77	-69.86	1.57	11.93	V
	14209	-56.59	-40	-16.59	-56.94	-67.50	1.87	12.78	V
	21314	-69.11	-40	-29.11	-77.13	-85.72	2.25	18.86	V
	24866	-66.73	-40	-26.73	-77.85	-83.57	2.22	19.06	V
	28418	-64.29	-40	-24.29	-76.46	-80.55	2.87	19.13	V
									V
Middle	7215	-62.32	-40	-22.32	-55.79	-71.36	1.30	10.35	H
	10822	-57.25	-40	-17.25	-55.02	-67.72	1.59	12.06	H
	14429	-56.62	-40	-16.62	-56.91	-67.56	1.93	12.87	H
	18036	-67.28	-40	-27.28	-72.86	-83.48	2.00	18.20	H
	21644	-68.89	-40	-28.89	-76.65	-85.65	2.11	18.87	H
	25251	-67.24	-40	-27.24	-77.84	-84.06	2.29	19.10	H
									H
	7215	-60.73	-40	-20.73	-55.62	-69.77	1.30	10.35	V
	10822	-58.48	-40	-18.48	-55.18	-68.95	1.59	12.06	V
	14429	-56.50	-40	-16.50	-57.13	-67.44	1.93	12.87	V
	18036	-67.14	-40	-27.14	-72.76	-83.34	2.00	18.20	V
	21644	-68.20	-40	-28.20	-76.45	-84.96	2.11	18.87	V
	25251	-66.39	-40	-26.39	-77.45	-83.21	2.29	19.10	V
									V



Highest	7325	-60.61	-40	-20.61	-54.36	-69.96	1.33	10.68	H
	10987	-57.46	-40	-17.46	-55.5	-68.03	1.62	12.19	H
	14649	-56.88	-40	-16.88	-57.68	-68.07	1.94	13.14	H
	18311	-68.72	-40	-28.72	-74.16	-84.71	2.21	18.20	H
	21974	-70.17	-40	-30.17	-77.54	-86.74	2.24	18.81	H
	25636	-66.61	-40	-26.61	-77.28	-83.57	2.40	19.35	H
									H
	7325	-59.41	-40	-19.41	-54.25	-68.76	1.33	10.68	V
	10987	-58.60	-40	-18.60	-55.72	-69.17	1.62	12.19	V
	14649	-56.85	-40	-16.85	-57.73	-68.04	1.94	13.14	V
	18311	-68.73	-40	-28.73	-74.24	-84.72	2.21	18.20	V
	21974	-69.54	-40	-29.54	-77.39	-86.11	2.24	18.81	V
	25636	-65.89	-40	-25.89	-77.05	-82.85	2.40	19.35	V
									V

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