

RF EXPOSURE REPORT



Applicant: Wistron Neweb Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 308,
Taiwan

Manufacturer: Wistron Neweb Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 308,
Taiwan

Product Name: DRMR-H01

Brand Name: WNC

Model No.: DRMR-H01

FCC ID NKR-DRMRH01

Date of EUT Received: Jan. 10, 2025

Issue Date: May 15, 2025

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01.

The results of this report relate to the specific sample identified in this report.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2503000248EN	00	Original	May 15, 2025	Cindy Chou	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	DRMR-H01
Brand Name:	WNC
Model No.:	DRMR-H01

1.2 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input type="checkbox"/>	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	<input type="checkbox"/>	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	<input checked="" type="checkbox"/>	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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1.3 Antenna Information:

Antenna Type	Antenna Part No.
PIFA	260-29150
	260-29151
	260-29152
	260-29153
	260-29154
	260-29155
	260-29156
	260-29158
	260-29159
	260-29160
	260-29161
Monopole	26029141
	26029142
	26029143
	26029145
	26029146
	26029147
	26029148
	26029149
	26029179

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1.4 Rated Power

Operating Frequency (MHz)		Ant 0 Peak Gain (dBi)	Ant 1 Peak Gain (dBi)
WCDMA / HSPA Band II	1850 ~ 1910	3.60	3.45
WCDMA / HSPA Band IV	1710 ~ 1755	4.03	4.78
WCDMA / HSPA Band V	824 ~ 849	2.88	3.42
LTE-Band 2	1850 ~ 1910	3.60	3.45
LTE-Band 4	1710 ~ 1755	4.03	4.78
LTE-Band 5	824 ~ 849	2.88	3.42
LTE-Band 7	2500 ~ 2570	4.06	3.69
LTE-Band 12	698 ~ 716	3.08	2.82
LTE-Band 13	777 ~ 787	3.15	3.26
LTE-Band 14	788 ~ 798	2.94	3.32
LTE-Band 17	704 ~ 716	2.97	2.82
LTE-Band 25	1850 ~ 1915	3.60	3.45
LTE-Band 26	824 ~ 849	2.79	3.42
LTE-Band 26 Part 90	814 ~ 824	2.79	3.42
LTE-Band 30	2305 ~ 2315	1.00	1.00
LTE-Band 38	2570 ~ 2620	4.06	3.74
LTE-Band 41_PC3	2496 ~ 2690	3.33	3.76
LTE-Band 41_PC2	2496 ~ 2690	3.33	3.76
LTE-Band 48	3550 ~ 3700	1.00	1.00
LTE-Band 66	1710 ~ 1780	4.03	4.86
LTE-Band 71	663 ~ 698	3.30	3.30
n2	1850 ~ 1910	3.60	3.45
n5	824 ~ 849	2.88	3.42
n7	2500 ~ 2570	4.06	3.69
n12	698 ~ 716	3.08	2.82
n14	788 ~ 798	2.94	3.32
n25	1850 ~ 1915	3.60	3.45
n26	824 ~ 849	2.79	3.42
n26 Part 90	814 ~ 824	2.79	3.42
n30	2305 ~ 2315	1.00	1.00
n38	2570 ~ 2620	4.06	3.74
n41_PC3	2496 ~ 2690	3.33	3.76
n41_PC2	2496 ~ 2690	3.33	3.76
n48	3550 ~ 3700	1.00	1.00
n66	1710 ~ 1780	4.03	4.86
n71	663 ~ 698	3.30	3.30
n77/78_PC3	3450 ~ 3550	2.95	2.93
n77/78_PC2	3450 ~ 3550	2.95	2.93
n77_PC3	3700 ~ 3980	2.95	2.93
n77_PC2	3700 ~ 3980	2.95	2.93
n78_PC3	3700 ~ 3800	2.95	2.93
n78_PC2	3700 ~ 3800	2.95	2.93

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2 DETERMINATION OF MPE EXEMPTION

2.1 FCC

2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

- (C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Table 1 to § 1.1307(b)(3)(i)(C) –

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minimum Distance			Threshold ERP (W)
fL		fH	$\lambda L / 2\pi$		$\lambda H / 2\pi$	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.1.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

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2.1.3 Single RF Source Evaluation Results

Operating Frequency (MHz)				Max. Output Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (W)	Distance (cm)	Max. tune-up power (mW)	ERP (mW)	x	ERP20cm (mW)	Pth (mW)	P or ERP /Pth
WCDMA / HSPA Band II	1850	~	1910	24.00	3.60	25.45	0.35	20	251.19	350.75	1.841	3060.00	3060.00	0.11
WCDMA / HSPA Band IV	1710	~	1755	24.00	4.78	26.63	0.46	20	251.19	460.26	1.824	3060.00	3060.00	0.15
WCDMA / HSPA Band V	824	~	849	25.00	3.42	26.27	0.42	20	316.23	423.64	1.405	1680.96	1680.96	0.25
LTE-Band 2	1850	~	1910	24.00	3.60	25.45	0.35	20	251.19	350.75	1.841	3060.00	3060.00	0.11
LTE-Band 4	1710	~	1755	24.00	4.78	26.63	0.46	20	251.19	460.26	1.824	3060.00	3060.00	0.15
LTE-Band 5	824	~	849	25.00	3.42	26.27	0.42	20	316.23	423.64	1.405	1680.96	1680.96	0.25
LTE-Band 7	2500	~	2570	24.00	4.06	25.91	0.39	20	251.19	389.94	1.907	3060.00	3060.00	0.13
LTE-Band 12	699	~	716	25.00	3.08	25.93	0.39	20	316.23	391.74	1.298	1425.96	1425.96	0.27
LTE-Band 13	777	~	787	25.00	3.26	26.11	0.41	20	316.23	408.32	1.367	1585.08	1585.08	0.26
LTE-Band 14	788	~	798	25.00	3.32	26.17	0.41	20	316.23	414.00	1.376	1607.52	1607.52	0.26
LTE-Band 17	704	~	716	24.00	2.97	24.82	0.30	20	251.19	303.39	1.303	1436.16	1436.16	0.21
LTE-Band 25	1850	~	1915	24.00	3.60	25.45	0.35	20	251.19	350.75	1.841	3060.00	3060.00	0.11
LTE-Band 26	824	~	849	25.00	3.42	26.27	0.42	20	316.23	423.64	1.405	1680.96	1680.96	0.25
LTE-Band 26 Part 90	814	~	824	25.00	3.42	26.27	0.42	20	316.23	423.64	1.397	1660.56	1660.56	0.26
LTE-Band 30	2305	~	2315	23.00	1.00	21.85	0.15	20	199.53	153.11	1.889	3060.00	3060.00	0.07
LTE-Band 38	2570	~	2620	24.00	4.06	25.91	0.39	20	251.19	389.94	1.913	3060.00	3060.00	0.13
LTE-Band 41_PC3	2496	~	2690	25.00	3.76	26.61	0.46	20	316.23	458.14	1.906	3060.00	3060.00	0.15
LTE-Band 41_PC2	2496	~	2690	28.00	3.76	29.61	0.91	20	630.96	914.11	1.906	3060.00	3060.00	0.30
LTE-Band 48	3550	~	3700	22.00	1.00	20.85	0.12	20	158.49	121.62	1.983	3060.00	3060.00	0.05
LTE-Band 66	1710	~	1780	24.00	4.86	26.71	0.47	20	251.19	468.81	1.824	3060.00	3060.00	0.15
LTE-Band 71	663	~	698	25.00	3.30	26.15	0.41	20	316.23	412.10	1.264	1352.52	1352.52	0.30
n2	1850	~	1910	24.00	3.60	25.45	0.35	20	251.19	350.75	1.841	3060.00	3060.00	0.11
n5	824	~	849	25.00	3.42	26.27	0.42	20	316.23	423.64	1.405	1680.96	1680.96	0.25
n7	2500	~	2570	24.00	4.06	25.91	0.39	20	251.19	389.94	1.907	3060.00	3060.00	0.13
n12	699	~	716	24.00	3.08	24.93	0.31	20	251.19	311.17	1.298	1425.96	1425.96	0.22
n14	788	~	798	24.00	3.32	25.17	0.33	20	251.19	328.85	1.376	1607.52	1607.52	0.20
n25	1850	~	1915	24.00	3.60	25.45	0.35	20	251.19	350.75	1.841	3060.00	3060.00	0.11
n26	824	~	849	24.00	3.42	25.27	0.34	20	251.19	336.51	1.405	1680.96	1680.96	0.20
n26 Part 90	814	~	824	24.00	3.42	25.27	0.34	20	251.19	336.51	1.397	1660.56	1660.56	0.20
n30	2305	~	2315	23.00	1.00	21.85	0.15	20	199.53	153.11	1.889	3060.00	3060.00	0.07
n38	2570	~	2620	24.00	4.06	25.91	0.39	20	251.19	389.94	1.913	3060.00	3060.00	0.13
n41_PC3	2496	~	2690	25.00	3.76	26.61	0.46	20	316.23	458.14	1.906	3060.00	3060.00	0.15
n41_PC2	2496	~	2690	28.00	3.76	29.61	0.91	20	630.96	914.11	1.906	3060.00	3060.00	0.30
n48	3550	~	3700	22.00	1.00	20.85	0.12	20	158.49	121.62	1.983	3060.00	3060.00	0.05
n66	1710	~	1780	24.00	4.86	26.71	0.47	20	251.19	468.81	1.824	3060.00	3060.00	0.15
n71	663	~	698	25.00	3.30	26.15	0.41	20	316.23	412.10	1.264	1352.52	1352.52	0.30
n77/78_PC3	3450	~	3550	24.00	2.95	24.80	0.30	20	251.19	302.00	1.976	3060.00	3060.00	0.10
n77/78_PC2	3450	~	3550	27.00	2.95	27.80	0.60	20	501.19	602.56	1.976	3060.00	3060.00	0.20
n77_PC3	3700	~	3980	24.00	2.95	24.80	0.30	20	251.19	302.00	1.992	3060.00	3060.00	0.10
n77_PC2	3700	~	3980	27.00	2.95	27.80	0.60	20	501.19	602.56	1.992	3060.00	3060.00	0.20
n78_PC3	3700	~	3800	24.00	2.95	24.80	0.30	20	251.19	302.00	1.992	3060.00	3060.00	0.10
n78_PC2	3700	~	3800	27.00	2.95	27.80	0.60	20	501.19	602.56	1.992	3060.00	3060.00	0.20

Note: All the single RF source results (P or ERP) are less than their corresponding threshold (P_{th}), so they are exempt from RF exposure testing.

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2.2 Multiple RF Sources Evaluation Results

Chain 0	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Max. tune-up power (mW)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP _{20cm} (mW)	P _{th} (mW)	P or ERP /P _{th}	Simultaneous transmission modes					
												1	2	3	4	5	6
NR_ULMIMO	2496	20	25	316.228	3.76	26.61	458.142	1.906	3060.00	3060.00	0.150	V					
NR_ULCA Inter	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300	V					
LTE_ULCA Inter	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300		V				
ENDC	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300			V			

Chain 1	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Max. tune-up power (mW)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP _{20cm} (mW)	P _{th} (mW)	P or ERP /P _{th}	Simultaneous transmission modes					
												1	2	3	4	5	6
NR_ULMIMO	2496	20	25	316.228	3.76	26.61	458.142	1.906	3060.00	3060.00	0.150	V					
NR_ULCA Inter	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300		V				
LTE_ULCA Inter	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300			V			
ENDC	663	20	25	316.228	3.3	26.15	412.098	1.264	1352.52	1352.52	0.300				V		

Simultaneous transmission modes	Σ P or ERP /P _{th}	Criteria
1	0.300	1
2	0.600	1
3	0.600	1
4	0.600	1

Note:

1. $\Sigma(P \text{ or } ERP / P_{th})$: This is a summation of [(P or ERP of RF source / exemption threshold P_{th} for RF source)].

Considering the collocated transmitters, the aggregated (P or ERP / P_{th}) is smaller than 1, and MPE of collocated transmitters is compliant

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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2.3 Maximum Allowable Antenna Gain

FCC

Operation Mode	Freq. (MHz)	Operation Distance (cm)	Max. output Power include tolerance (dBm)	Max. Allowable Antenna Gain (dBi)	EIRP (ERP) Limit (dBm)	Max. output Power (mW)	Power Density (PD) (mW/cm ²)	PD Limit (mW/cm ²)	Allowable Gain according to EIRP (dBi)	Allowable Gain according to PD (dBi)
WCDMA / HSPA Band II	1850.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
WCDMA / HSPA Band IV	1710.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
WCDMA / HSPA Band V	824.0	20	25.00	9.41	38.45	2759.85	0.549	0.549	13.45	9.41
LTE-Band 2	1850.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
LTE-Band 4	1710.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
LTE-Band 5	824.0	20	25.00	9.41	38.45	2759.85	0.549	0.549	13.45	9.41
LTE-Band 7	2500.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
LTE-Band 12	699.0	20	25.00	8.69	34.77	2341.18	0.466	0.466	9.77	8.69
LTE-Band 13	777.0	20	25.00	9.15	34.77	2602.43	0.518	0.518	9.77	9.15
LTE-Band 14	788.0	20	25.00	9.21	34.77	2639.27	0.525	0.525	9.77	9.21
LTE-Band 17	704.0	20	24.00	9.73	34.77	2357.93	0.469	0.469	10.77	9.73
LTE-Band 25	1850.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
LTE-Band 26	824.0	20	25.00	9.41	38.45	2759.85	0.549	0.549	13.45	9.41
LTE-Band 26 Part 90	814.0	20	25.00	9.36	50.00	2726.36	0.543	0.543	25.00	9.36
LTE-Band 30	2305.0	20	23.00	1.00	24.00	251.19	0.050	1.000	1.00	14.01
LTE-Band 38	2570.00	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
LTE-Band 41_PC3	2496.00	20	25.00	8.00	33.00	1995.26	0.397	1.000	8.00	12.01
LTE-Band 41_PC2	2496.00	20	28.00	5.00	33.00	1995.26	0.397	1.000	5.00	9.01
LTE-Band 48	3550.0	20	22.00	1.00	23.00	199.53	0.040	1.000	1.00	15.01
LTE-Band 66	1710.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
LTE-Band 71	663.0	20	25.00	8.46	34.77	2220.61	0.442	0.442	9.77	8.46
n2	1850.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
n5	824.0	20	25.00	9.41	38.45	2759.85	0.549	0.549	13.45	9.41
n7	2500.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
n12	699.0	20	24.00	9.69	34.77	2341.18	0.466	0.466	10.77	9.69
n14	788.0	20	24.00	10.21	34.77	2639.27	0.525	0.525	10.77	10.21
n25	1850.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
n26	824.0	20	24.00	10.41	38.45	2759.85	0.549	0.549	14.45	10.41
n26 Part 90	814.0	20	24.00	10.36	50.00	2726.36	0.543	0.543	26.00	10.36
n30	2305.0	20	23.00	1.00	24.00	251.19	0.050	1.000	1.00	14.01
n38	2570.0	20	24.00	9.00	33.00	1995.26	0.397	1.000	9.00	13.01
n41_PC3	2496.0	20	25.00	8.00	33.00	1995.26	0.397	1.000	8.00	12.01
n41_PC2	2496.00	20	28.00	5.00	33.00	1995.26	0.397	1.000	5.00	9.01
n48	3550.00	20	22.00	1.00	23.00	199.53	0.040	1.000	1.00	15.01
n66	1710.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
n71	663.0	20	25.00	8.46	34.77	2220.61	0.442	0.442	9.77	8.46
n77/78_PC3	3450.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
n77/78_PC2	3450.0	20	27.00	3.00	30.00	1000.00	0.199	1.000	3.00	10.01
n77_PC3	3700.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
n77_PC2	3700.0	20	27.00	3.00	30.00	1000.00	0.199	1.000	3.00	10.01
n78_PC3	3700.0	20	24.00	6.00	30.00	1000.00	0.199	1.000	6.00	13.01
n78_PC2	3700.0	20	27.00	3.00	30.00	1000.00	0.199	1.000	3.00	10.01

~ End of Report ~

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t (886-2) 2299-3279

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