



MAX Testing Co.,Ltd.

Report No.: MAX26010193P01-R01RF

RF TEST REPORT

Report Reference No..... : MAX26010193P01-R01RF

FCC ID..... : 2BUZC-NE6500

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Applicant's name..... : NexusEase Co.,Ltd

Address..... : Room 4-U7, 9/F, Block A, Yau Tong Industrial City, No. 17 Ko Fai
Road, Kowloon,Hong Kong

Test specification..... :

Standard..... : KDB 447498 D01 General RF Exposure Guidance v06

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Test item description..... : Tower Computer

Trade Mark..... : abytespark

Manufacturer..... : NexusEase Co.,Ltdogy Co.,Ltd

Model/Type reference..... : NE6500

Listed Models : NE6501, NE6502, NE6503, NE6504, NE6505, NE6506, NE6507,
NE6508, NE6509, NE6600

Modulation : OFDM

Frequency..... : From 5745MHz-5825MHz

Rating..... : AC120V

Result..... : PASS

RF EXPOSURE EVALUATION METHOD

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Maximum measured transmitter power.

WIFI 5.8G

Channel	Frequency (MHz)	Output power to antenna (dBm)			Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
		ANT A	ANT B	ANT A+B				
802.11a	5745	11.43	9.56	/	13.90	0.00875	1.0	PASS
	5785	10.79	8.45	/	11.99	0.00755	1.0	PASS
	5825	10.11	8.21	/	10.26	0.00646	1.0	PASS
802.11n (HT20)	5745	12.92	10.32	14.82	30.34	0.01910	1.0	PASS
	5785	12.62	10.24	14.60	28.84	0.01815	1.0	PASS
	5825	11.67	9.45	13.71	23.50	0.01479	1.0	PASS
802.11n (HT40)	5755	11.85	9.63	13.89	24.49	0.01542	1.0	PASS
	5795	9.22	8.05	11.68	14.72	0.00927	1.0	PASS
802.11ac (HT20)	5745	12.92	10.23	14.79	30.13	0.01896	1.0	PASS
	5785	12.50	10.14	14.49	28.12	0.01770	1.0	PASS
	5825	11.77	9.85	13.93	24.72	0.01556	1.0	PASS
802.11ac (HT40)	5755	11.42	9.65	13.63	23.07	0.01452	1.0	PASS
	5795	9.65	7.52	11.72	14.86	0.00935	1.0	PASS
802.11ac (HT80)	5775	11.80	9.63	13.86	24.32	0.01531	1.0	PASS

Conclusion: No SAR is required.