



MAXLAB Testing Co.,Ltd.

Report No.: MAX25102413P01-R01RF

RF TEST REPORT

Report Reference No..... : MAX25102413P01-R01RF

FCC ID..... : 2BEGN-YS-302

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Applicant's name..... : Shenzhen Youshid High Technology Co., Ltd

Address..... : Suite 1801, Building 3C ,Tianan Cloud Park, Bantian Street, Longgang District, Shenzhen, China

Test specification..... :

Standard..... : KDB 447498 D01 v06
FCC Part 2.1091

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Test item description..... : Projector

Trade Mark..... : N/A

Manufacturer..... : Dongguan Youshida Technology Co., Ltd

Model/Type reference..... : YS-302

Listed Models : YS-300, YS-301, YS-301PLUS, YS-302PLUS, YS-303, YS-304, YS-306, YS-307, YS-308, YS-309, YS-310, YS-311, YS-312, HY-300PRO, HY-360PLUS, HY-360Portable

Modulation : GFSK, $\pi/4$ DQPSK, 8DPSK
CCK/ DSSS/ OFDM/OFDMA
OFDMA

Frequency..... : From 2402MHz to 2480MHz
From 2412MHz - 2462MHz
From 5180MHz-5240MHz, 5745MHz-5825MHz

Rating..... : AC100~240V

Result..... : PASS

RF Exposure Evaluation

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.

Test Result of RF Exposure Evaluation

BT

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

2.4GWiFi:

Operation Frequency: 802.11b/g/n(HT20)/ac(HE20): 2412-2462MHz;

802.11n(HT40)/ac(HE40): 2422-2452MHz,

Power density limited: 1mW/ cm²

5GWiFi:

802.11a: 20 MHz

802.11n: 20 MHz, 40 MHz

802.11ac: 20 MHz, 40 MHz, 80MHz

802.11ax: 20 MHz, 40 MHz, 80MHz

Antenna Type: FPC Antenna

Antenna gain: 1.73dBi(BT+WIFI2.4G)/ 4.45dBi(WIFI5G)

R=20cm

BR+EDR

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
GFSK	2402	0.207	1.05	0.00031	1.0	PASS
	2441	0.419	1.10	0.00033	1.0	PASS
	2480	-0.117	0.97	0.00029	1.0	PASS
Π/4DQPSK	2402	0.892	1.23	0.00036	1.0	PASS
	2441	1.042	1.27	0.00038	1.0	PASS
	2480	-0.167	0.96	0.00029	1.0	PASS
8DPSK	2402	1.780	1.51	0.00045	1.0	PASS
	2441	2.033	1.60	0.00047	1.0	PASS
	2480	1.270	1.34	0.00040	1.0	PASS

WiFi 2.4G

Channel	Frequen cy (MHz)	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b	2412	7.56	5.70	0.00169	1.0	PASS
	2437	4.85	3.05	0.00091	1.0	PASS
	2462	7.63	5.79	0.00172	1.0	PASS
802.11g	2412	6.85	4.84	0.00144	1.0	PASS
	2437	6.45	4.42	0.00131	1.0	PASS
	2462	6.35	4.32	0.00128	1.0	PASS
802.11n (HT20)	2412	5.45	3.51	0.00104	1.0	PASS
	2437	5.85	3.85	0.00114	1.0	PASS
	2462	5.61	3.64	0.00108	1.0	PASS
802.11n (HT40)	2422	4.52	2.83	0.00084	1.0	PASS
	2437	4.26	2.67	0.00079	1.0	PASS
	2452	4.14	2.59	0.00077	1.0	PASS
802.11ax (HT20)	2412	5.12	3.25	0.00096	1.0	PASS
	2437	5.21	3.32	0.00098	1.0	PASS
	2462	5.34	3.42	0.00101	1.0	PASS
802.11ax (HT40)	2422	4.05	2.54	0.00075	1.0	PASS
	2437	4.21	2.64	0.00078	1.0	PASS
	2452	4.11	2.58	0.00076	1.0	PASS

WiFi 5G

UNII-1

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
802.11a	5180	7.65	5.82	0.00323	1.0	PASS
	5200	7.46	5.57	0.00309	1.0	PASS
	5240	7.34	5.42	0.00301	1.0	PASS
802.11n (HT20)	5180	7.24	5.30	0.00294	1.0	PASS
	5200	7.14	5.18	0.00287	1.0	PASS
	5240	7.06	5.08	0.00282	1.0	PASS
802.11n (HT40)	5190	5.42	3.48	0.00193	1.0	PASS
	5230	5.35	3.43	0.00190	1.0	PASS
802.11ac (VHT20)	5180	6.98	4.99	0.00277	1.0	PASS
	5200	6.85	4.84	0.00269	1.0	PASS
	5240	6.42	4.39	0.00243	1.0	PASS
802.11ac (VHT40)	5200	5.11	3.24	0.00180	1.0	PASS
	5240	5.05	3.20	0.00177	1.0	PASS
802.11ac (VHT80)	5210	3.21	2.09	0.00116	1.0	PASS
802.11ax (HE20)	5180	4.52	2.83	0.00157	1.0	PASS
	5200	4.12	2.58	0.00143	1.0	PASS
	5240	4.06	2.55	0.00141	1.0	PASS
802.11ax (HE40)	5200	3.25	2.11	0.00117	1.0	PASS
	5240	3.21	2.09	0.00116	1.0	PASS
802.11ax (HE80)	5210	2.65	1.84	0.00102	1.0	PASS

UNII-3

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
802.11a	5745	7.35	5.43	0.00301	1.0	PASS
	5785	7.24	5.30	0.00294	1.0	PASS
	5825	7.12	5.15	0.00286	1.0	PASS
802.11n (HT20)	5745	7.24	5.30	0.00294	1.0	PASS
	5785	7.13	5.16	0.00286	1.0	PASS
	5825	7.09	5.12	0.00284	1.0	PASS
802.11n (HT40)	5755	5.21	3.32	0.00184	1.0	PASS
	5795	5.11	3.24	0.00180	1.0	PASS
802.11ac (VHT20)	5745	6.65	4.62	0.00256	1.0	PASS
	5785	6.45	4.42	0.00245	1.0	PASS
	5825	6.25	4.22	0.00234	1.0	PASS
802.11ac (VHT40)	5755	5.32	3.40	0.00189	1.0	PASS
	5795	5.21	3.32	0.00184	1.0	PASS
802.11ac (VHT80)	5775	3.52	2.25	0.00125	1.0	PASS
802.11ax (HE20)	5745	3.62	2.30	0.00128	1.0	PASS
	5785	4.52	2.83	0.00157	1.0	PASS
	5825	4.23	2.65	0.00147	1.0	PASS
802.11ax (HE40)	5755	3.52	2.25	0.00125	1.0	PASS
	5795	3.32	2.15	0.00119	1.0	PASS
802.11ax (HE80)	5775	2.24	1.67	0.00093	1.0	PASS

Note: WiFi and Bluetooth cannot transmit simultaneously

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----