

**Maximum Permissible Exposure Report****1. Product Information**

EUT	: Tablet computer
Test Model	: IST-10
Additional Model No.	: IST-10-W, IST-10-B
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: For AC Adapter: Input:100-240V~, 50/60Hz, 1A Output: 12.0V=2.0A, 24.0W
Hardware Version	: ZW-A5R/A10R-V200
Software Version	: update_rk3566-r165-p10-lp4x-v10-12.0
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V4.2 (DSS)
Channel Spacing	: 1MHz for Bluetooth V4.2(DSS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.2 (DSS)
Bluetooth Version	: V4.2
Antenna Description	: FPC Antenna, 2.43dBi (max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Channel Spacing	: 5MHz
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.43dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 3.27dBi(Max.)





5.3G WLAN	
Frequency Range	: 5250-5350MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz-5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz) 1 channels for 80MHz bandwidth(5290MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 3.58dBi(Max.)
5.5G WLAN	
Frequency Range	: 5470-5725MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz-5700MHz) 5 Channels for 40MHz bandwidth(5510MHz-5670MHz) 2 Channels for 80MHz bandwidth(5530MHz, 5610MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 3.82dBi(Max.)
WIFI(5.8G Band)	
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 3.78dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Mobile Device

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions.



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The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density



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4. MPE Calculation Method

Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/ External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
External	FPC Antenna	2400MHz ~ 2500MHz 5000MHz ~ 6000MHz	BT:2.43dBi 2.4GWIFI:2.43dBi 5.2GWIFI: 3.27dBi 5.3GWIFI: 3.58dBi 5.5GWIFI: 3.82dBi 5.8GWIFI: 3.78dBi	Bluetooth/WIFI



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**6. Conducted Power**

[BT]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	0.22
	39	2441	-0.57
	79	2480	-0.23
$\pi/4$ -DQPSK	00	2402	0.01
	39	2441	-0.86
	79	2480	-0.53
8-DPSK	00	2402	0.15
	39	2441	-0.75
	79	2480	-0.42

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	15.96
	6	2437	15.66
	11	2462	15.66
11G	1	2412	14.62
	6	2437	14.38
	11	2462	14.96
11N20 SISO	1	2412	13.12
	6	2437	13.78
	11	2462	13.34
11N40 SISO	3	2422	12.1
	6	2437	12.7
	9	2452	12.31

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	12.76
	40	5200	12.86
	48	5240	12.21
11N20 SISO	36	5180	12.1
	40	5200	12.24
	48	5240	11.64
11N40 SISO	38	5190	10.77
	46	5230	10.54
11AC20 SISO	36	5180	12.12
	40	5200	11.81
	48	5240	11.81
11AC40 SISO	38	5190	11.43
	46	5230	10.35
11AC80 SISO	42	5210	9.98



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[5.3G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	52	5260	12.53
	60	5280	12.8
	64	5320	12.36
11N20 SISO	52	5260	11.94
	60	5280	11.28
	64	5320	12.09
11N40 SISO	54	5270	10.38
	62	5310	10.77
11AC20 SISO	52	5260	10.77
	60	5280	11.75
	64	5320	11.72
11AC40 SISO	54	5270	11.51
	62	5310	10.59
11AC80 SISO	58	5290	10.38



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[5.5G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	100	5500	12.3
	116	5580	12.66
	140	5700	13.04
11N20 SISO	100	5500	11.8
	116	5580	12.11
	140	5700	11.73
11N40 SISO	102	5510	10.65
	110	5550	10.37
	134	5670	10.96
11AC20 SISO	100	5500	11.67
	116	5580	12.03
	140	5700	11.74
11AC40 SISO	102	5510	10.57
	110	5550	10.28
	134	5670	10.83
11AC80 SISO	106	5530	10.08
	122	5610	10.12

[5.8G WIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	149	5745	12.79
	157	5785	12.66
	165	5825	12.91
11N20 SISO	149	5745	11.47
	157	5785	12.05
	165	5825	11.69
11N40 SISO	151	5755	19.48
	159	5795	19.49
11AC20 SISO	149	5745	11.48
	157	5785	11.37
	165	5825	11.59
11AC40 SISO	151	5755	11.28
	159	5795	10.7
11AC80 SISO	155	5775	10.39



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7. Manufacturing Tolerance

[BT]

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	13.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	12.0	12.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0





[5.2G WIFI]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	12.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	11.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	9.0		
Tolerance ±(dB)	1.0		





[5.3G WIFI]

11A (AVG)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(AVG)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(AVG)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(AVG)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	10.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(AVG)			
Channel	Channel 54	Channel 62	
Target (dBm)	11.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11AC VHT80 (Average)			
Channel	Channel 58		
Target (dBm)	10.0		
Tolerance ± (dB)	1.0		



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[5.5G WIFI]

11A (AVG)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	12.0	12.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(AVG)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	11.0	12.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(AVG)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC20(AVG)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	11.0	12.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40(AVG)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC VHT80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	



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[5.8G WIFI]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	12.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	19.0	19.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 155		
Target (dBm)	10.0		
Tolerance $\pm$ (dB)	1.0		





8. Measurement Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BT]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
GFSK	1.0	1.2589	2.43	1.9543	0.0005	1.0000
$\pi/4$ -DQPSK	1.0	1.2589	2.43	1.9543	0.0005	1.0000
8-DPSK	1.0	1.2589	2.43	1.9543	0.0005	1.0000

[2.4G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	16	39.8107	2.43	1.9543	0.0155	1.0000
IEEE 802.11g	15	31.6228	2.43	1.9543	0.0123	1.0000
IEEE 802.11n HT20	14	25.1189	2.43	1.9543	0.0098	1.0000
IEEE 802.11n HT40	13	19.9526	2.43	1.9543	0.0078	1.0000

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.27	2.1184	0.0084	1.0000
IEEE 802.11n HT20	13.0	19.9526	3.27	2.1184	0.0084	1.0000
IEEE 802.11n HT40	11.0	12.5893	3.27	2.1184	0.0053	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.27	2.1184	0.0067	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.27	2.1184	0.0053	1.0000
IEEE 802.11ac VHT80	11.0	12.5893	3.27	2.1184	0.0053	1.0000

[5.3G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	14.0	25.1189	3.58	2.2827	0.0104	1.0000
IEEE 802.11n HT20	13.0	19.9526	3.58	2.2827	0.0083	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.58	2.2827	0.0066	1.0000
IEEE 802.11ac VHT20	13.0	19.9526	3.58	2.2827	0.0083	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	3.58	2.2827	0.0066	1.0000
IEEE 802.11ac VHT80	11.0	12.5893	3.58	2.2827	0.0052	1.0000



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[5.5G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.82	2.4099	0.0080	1.0000
IEEE 802.11n HT20	13.0	19.9526	3.82	2.4099	0.0080	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.82	2.4099	0.0063	1.0000
IEEE 802.11ac VHT20	13.0	19.9526	3.82	2.4099	0.0080	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.82	2.4099	0.0050	1.0000
IEEE 802.11ac VHT80	10.0	10.0000	3.82	2.4099	0.0040	1.0000

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	14.0	25.1189	3.78	2.2233	0.0111	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.78	2.2233	0.0070	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.78	2.2233	0.0070	1.0000
IEEE 802.11ac VHT20	13.0	19.9526	3.78	2.2233	0.0088	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.78	2.2233	0.0056	1.0000
IEEE 802.11ac VHT80	11.0	12.5893	3.78	2.2233	0.0056	1.0000

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.



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8.2 Simultaneous Transmission MPE Evaluation

The EUT equipped with one antenna. So no need consider simultaneous transmission.

9. Conclusion

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

-----THE END OF REPORT-----

