

FCC Test Report FCC ID: 2A7DX-TAB30WIFI

Product:	Tablet PC
Trade Mark:	Blackview, OSCAL
Model Number:	Tab 30 WIFI
Family Model:	Tab 30 Kids, Pad 50 WIFI, Pad 50 Kids
Report No.:	S23121304505005
Issue Date:	Jan 10, 2024

Prepared for

DOKE COMMUNICATION (HK) LIMITED RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	DOKE COMMUNICATION (HK) LIMITED
Address	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA
Manufacturer's Name:	Shenzhen DOKE Electronic Co., Ltd
Address	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.
Product description	
Product name:	Tablet PC
Trade Mark:	Blackview, OSCAL
Model and/or type reference :	Tab 30 WIFI
Family Model:	Tab 30 Kids, Pad 50 WIFI, Pad 50 Kids
Test Sample Number:	S231213045006
Date of Test:	Dec 13, 2023 ~ Jan 10, 2024
Standards	FCC Part15B
Stanuarus	ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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(Project Engineer)

Prepared By: Mukzi Lee (Project Engineer) Reviewed By: Aaron Cheng (Supervisor) Approved (Supervisor) (Supervisor)

Alex Li

(Manager)



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Standard Test Item Limit Judgment F					
FCC Part15B	Conducted Emission	Class B	PASS			
ANSI C63.4: 2014	Radiated Emission	Class B	PASS			

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

1.2 MEASUREMENT UNCERTAINTY

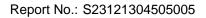
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC				
Trade Mark	Blackview, OSCAL				
Model Name	Tab 30 WIFI				
Family Model	Tab 30 Kids, Pad 50 WIF	FI, Pad 50 Kids			
Madel Difference	All the model are the sar	ne circuit and RF module, the difference is in			
Model Difference	appearance, trade mark	and camera position structure.			
Product Description	Connecting I/O port: Micro USB, Earphone Operation Frequency: 5.8GHz Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Adapter	Model: QZ-01004AA00 Input:100-240V~50/60Hz 0.3A Output:5.0V2.0A (10.0W)				
Battery	DC 3.8V, 5100mAh, 19.38Wh				
Power supply	DC 3.8V from battery or DC 5V from adapter				
Hardware version:	BND-A863-D V1.1				
Software version:	Pad_50_WiFi_EEA_A863-D_V1.1				



2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

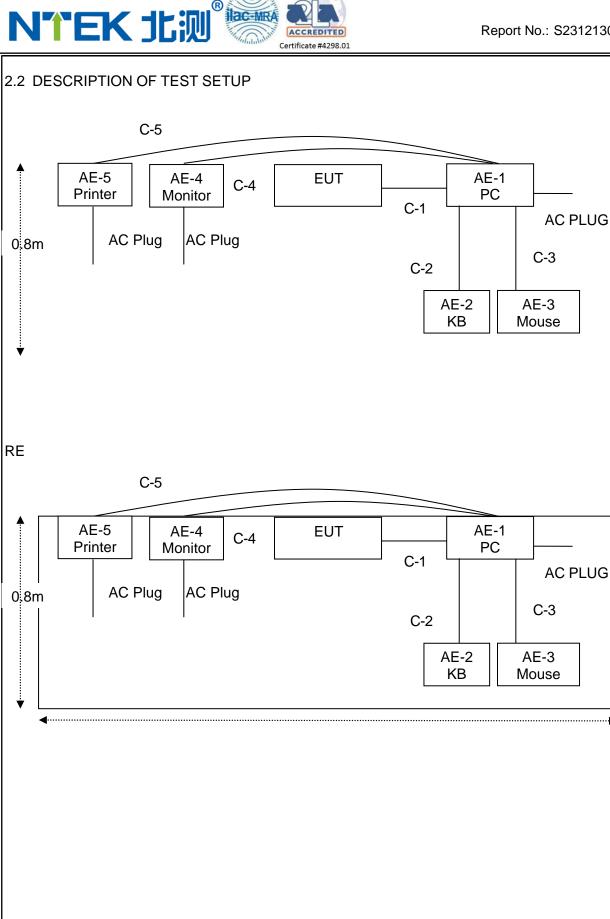
Pretest Mode	Description
Model 1	USB Data Transmission
Model 2	TF card Playing
Model 3	REC
Model 4	FM
Model 5	GPS

For Conducted Test				
Final Test Mode	Description			
Model 1	USB Data Transmission			
Model 2	TF card Playing			
Model 3	REC			
Model 4	FM			

For Radiated Test				
Final Test Mode	Description			
Model 1	USB Data Transmission			
Model 2	TF card Playing			
Model 3	REC			
Model 4	FM			

Note: Final Test Mode: Through Pre-scan, find the model 1 is the worst case. Only the worst case mode is recorded in the report.

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2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	N/A	N/A	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	DELL	IN2020MB	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



	2.4 MEASUREMENT INSTRUMENTS LIST						
Radia Item	ation Test equip	oment Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
nom	Equipment	mandiacturor	1900 1101	Condition	calibration	until	n period
1	Spectrum Analyzer	Aglient	E4440A	MY4100013 0	2023.03.27	2024.03.26	1 year
2	Test Receiver	R&S	ESPI	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2023.03.27	2024.03.26	1 year
6	Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 year
8	Amplifier	EMC	EMC05183 5SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2023.05.29	2024.05.28	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2023.05.29	2024.05.28	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
15	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year

AC Conduction Test equipment

Item	Kind of Equipment	Manufactu	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

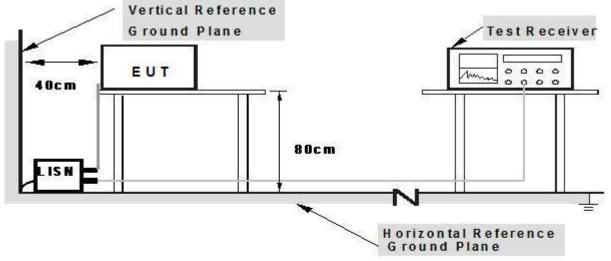
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 TEST RESULTS

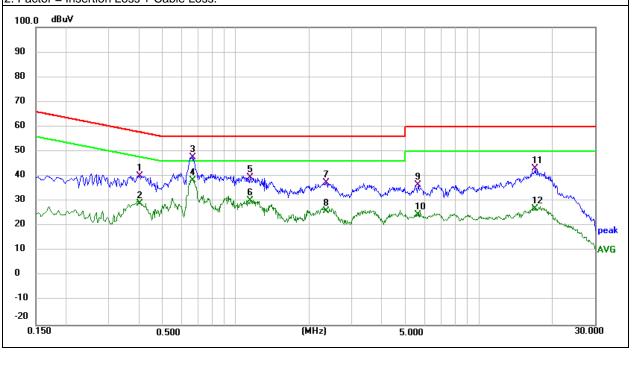
EUT:	Tablet PC	Model Name. :	Tab 30 WIFI
Temperature:	24.5 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023/12/18
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4020	29.59	10.45	40.04	57.81	-17.77	QP
0.4020	18.47	10.45	28.92	47.81	-18.89	AVG
0.6620	36.81	10.97	47.78	56.00	-8.22	QP
0.6620	27.44	10.97	38.41	46.00	-7.59	AVG
1.1420	27.67	11.94	39.61	56.00	-16.39	QP
1.1420	18.44	11.94	30.38	46.00	-15.62	AVG
2.3460	27.80	9.66	37.46	56.00	-18.54	QP
2.3460	16.45	9.66	26.11	46.00	-19.89	AVG
5.6100	26.88	9.68	36.56	60.00	-23.44	QP
5.6100	14.80	9.68	24.48	50.00	-25.52	AVG
17.0220	33.38	9.71	43.09	60.00	-16.91	QP
17.0220	17.26	9.71	26.97	50.00	-23.03	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



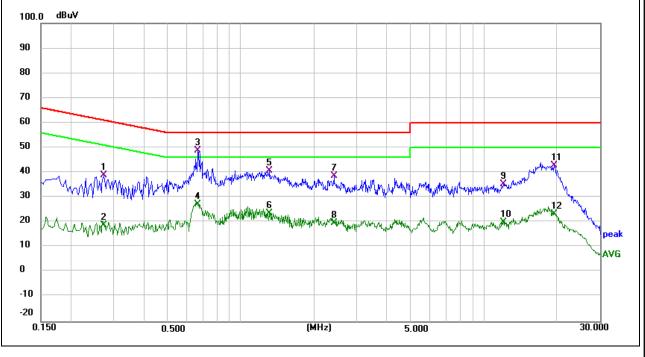


EUT:	Tablet PC		Mod	el Name. :	Tab 30 WIFI	
Temperature:	24.5 ℃		Rela	tive Humidity:	52%	
Pressure: 1010hPa		Test	Date:	2023/12/18		
Test Mode:	Mode 1		Pha	se :	N	
Test Voltage:	DC 5V fror	n PC AC 120∖	//60Hz			
Frequency	Reading Level	Correct Factor	Measure-mer	nt Limits	Margin	Descal
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2740	28.70	10.18	38.88	61.00	-22.12	QP
0.2740	8.69	10.18	18.87	51.00	-32.13	AVG
0.6660	37.78	10.99	48.77	56.00	-7.23	QP
0.6660	16.30	10.99	27.29	46.00	-18.71	AVG
1.3099	28.59	12.28	40.87	56.00	-15.13	QP
1.3099	11.37	12.28	23.65	46.00	-22.35	AVG
2.4180	28.97	9.66	38.63	56.00	-17.37	QP
2.4180	10.03	9.66	19.69	46.00	-26.31	AVG
12.0180	25.62	9.70	35.32	60.00	-24.68	QP
12.0180	10.38	9.70	20.08	50.00	-29.92	AVG
19.4700	33.22	9.72	42.94	60.00	-17.06	QP
19.4700	13.49	9.72	23.21	50.00	-26.79	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

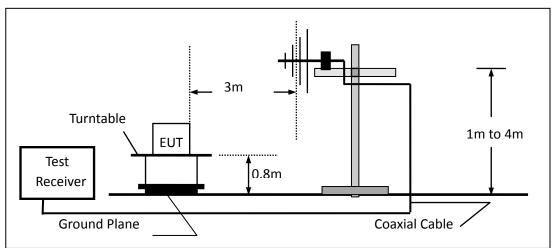


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

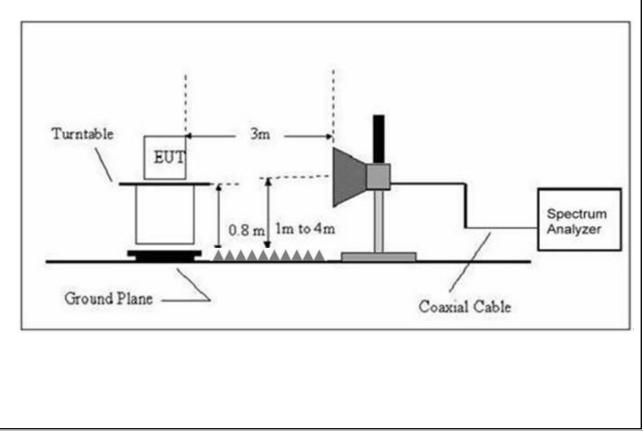
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



Report No.: S23121304505005



3.2.4 TEST RESULTS

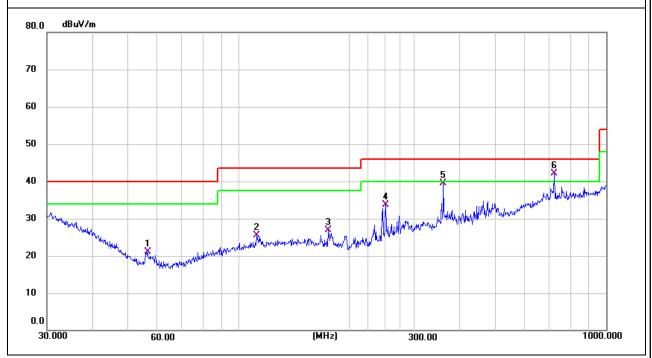
TEST RESULTS (30~1000 MHz)

EUT:	Tablet PC	Model Name:	Tab 30 WIFI
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/12/25
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	56.3948	8.52	12.59	21.11	40.00	-18.89	QP
Н	111.7380	7.20	18.31	25.51	43.50	-17.99	QP
Н	175.0368	9.89	17.06	26.95	43.50	-16.55	QP
Н	251.1804	14.88	18.85	33.73	46.00	-12.27	QP
Н	360.4476	17.47	22.08	39.55	46.00	-6.45	QP
Н	721.7259	13.92	28.15	42.07	46.00	-3.93	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



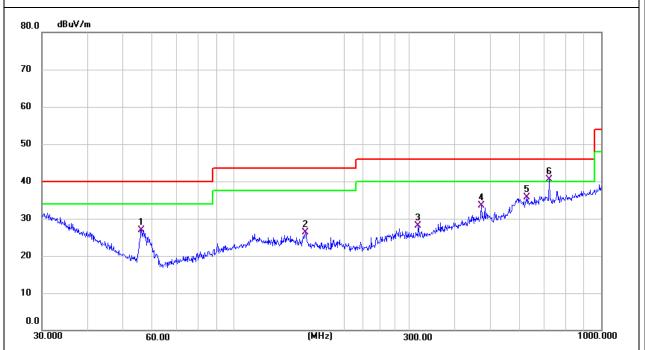


EUT:	Tablet PC	Model Name :	Tab 30 WIFI
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/12/25
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	56.0007	14.31	12.65	26.96	40.00	-13.04	QP
V	156.4578	8.20	18.12	26.32	43.50	-17.18	QP
V	317.7011	7.68	20.34	28.02	46.00	-17.98	QP
V	472.1760	9.16	24.36	33.52	46.00	-12.48	QP
V	627.2738	9.08	26.69	35.77	46.00	-10.23	QP
V	721.7259	12.34	28.15	40.49	46.00	-5.51	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Tablet PC	Model Name :	Tab 30 WIFI
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/12/16
Test Mode :	Mode 1		
Test Power :	DC 5V from PC AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)		
V	14277.000	53.05	2.96	56.01	74.00	-17.99	peak	
V	14277.000	35.78	2.96	38.74	54.00	-15.26	AVG	
V	16606.000	53.64	4.62	58.26	74.00	-15.74	peak	
V	16606.000	37.23	4.62	41.85	54.00	-12.15	AVG	
V	17626.000	53.80	6.00	59.80	74.00	-14.20	peak	
V	17626.000	37.25	6.00	43.25	54.00	-10.75	AVG	
Н	14362.000	52.90	3.45	56.35	74.00	-17.65	peak	
Н	14362.000	35.10	3.45	38.55	54.00	-15.45	AVG	
Н	16606.000	54.09	4.62	58.71	74.00	-15.29	peak	
Н	16606.000	37.23	4.62	41.85	54.00	-12.15	AVG	
Н	17575.000	54.67	6.14	60.81	74.00	-13.19	peak	
Н	17575.000	37.66	6.14	43.80	54.00	-10.20	AVG	

Remark:

Result = Reading + Correct, Over Limit= Result - Limit

Note: Only the worst results data points are reported in the report.

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

END OF REPORT