中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **Shenzhen Digidragon Technology Co., Ltd**

Address: F02-3, Block 36, Dayun Software Town Longgang District Shenzhen China

FCC ID: **2AW7S708Z**

Product Name: **3G Tablet**

Model Number: **708Z**

Standard(s): **47 CFR Part 15 Subpart B**
ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR21090077-00D**

Date Of Issue: **2021-11-04**

Reviewed By: **Sun Zhong** Sun Zhong

Title: Manager

Test Laboratory: **China Certification ICT Co., Ltd (Dongguan)**
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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CONTENTS

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	3G Tablet
EUT Model:	708Z
Highest Operation Frequency:	2480 MHz
Rated Input Voltage:	DC 3.8V from battery or DC 5V from adapter
Serial Number:	CR21090077-RF-S1
EUT Received Date:	2021.09.28
EUT Received Status:	GOOD

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Digidragon	J002-1	Input: AC100V-240V 50/60Hz 200mA Output: DC 5V 2A

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: Downloading
Equipment Modifications:	No
EUT Exercise Software:	Winthrax.exe

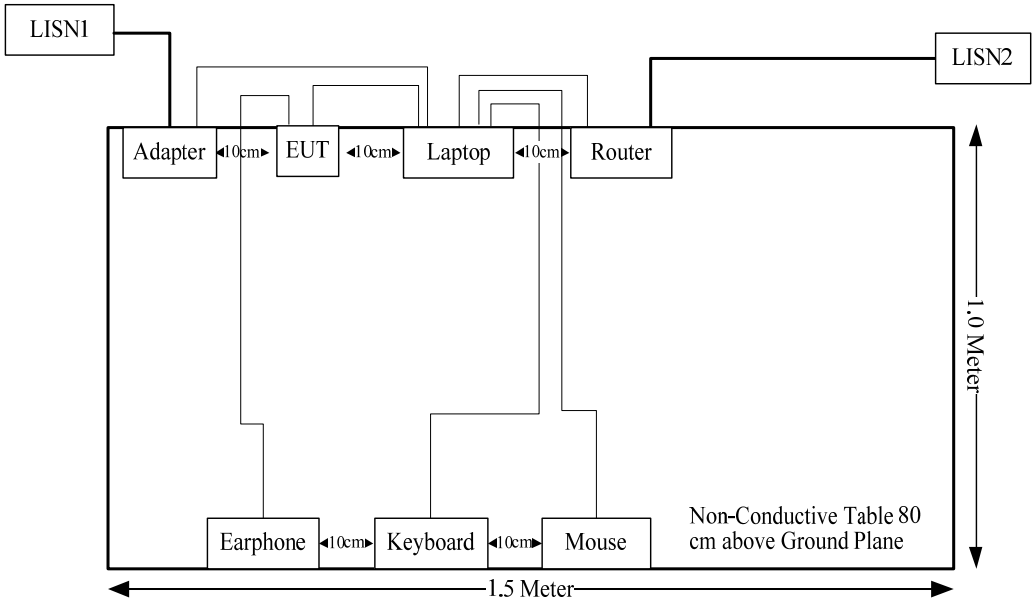
1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
ZIONCOM	Router	MB-R210-00	MB-R210-00
PHILIPS	Keyboard	SPK6234	K234210510743
PHILIPS	Mouse	SPK7214	M214BQ210411115
Unknown	Earphone	Unknown	Earphone 01
DELL	Laptop	E6410	9T215

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Mouse Cable	No	No	2	Mouse	Laptop
Earphone Cable	No	No	2	Headphone	EUT
RJ45 Cable	No	No	1.2	Laptop	Router
Keyboard Cable	No	No	1.8	Keyboard	Laptop

1.2.4 Block Diagram of Test Setup



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Temperature	±1℃
Humidity	±5%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

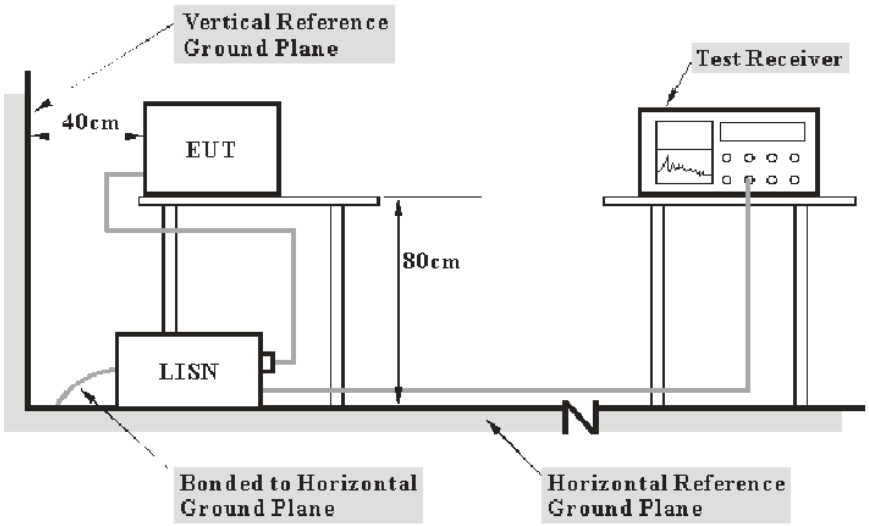
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliance
§15.109	Radiated emissions	Compliance

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 EUT Setup



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

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.2 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

All data was recorded in the Quasi-peak and average detection mode.

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

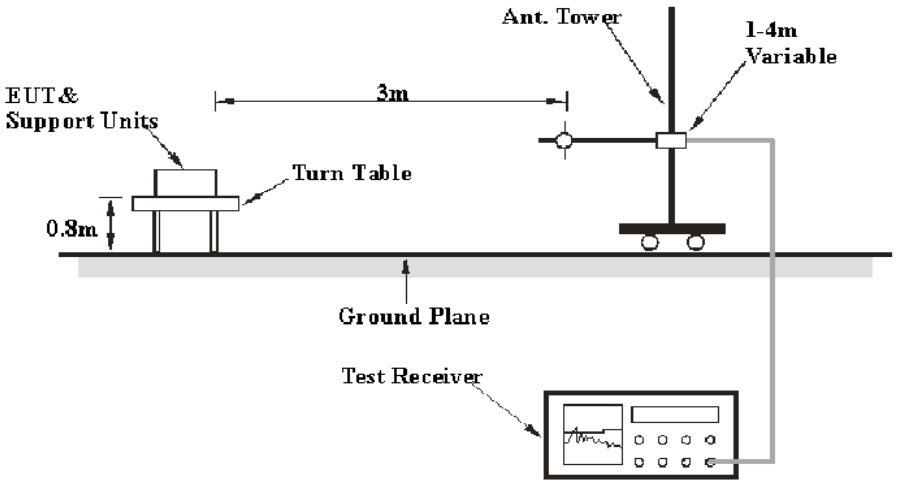
The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

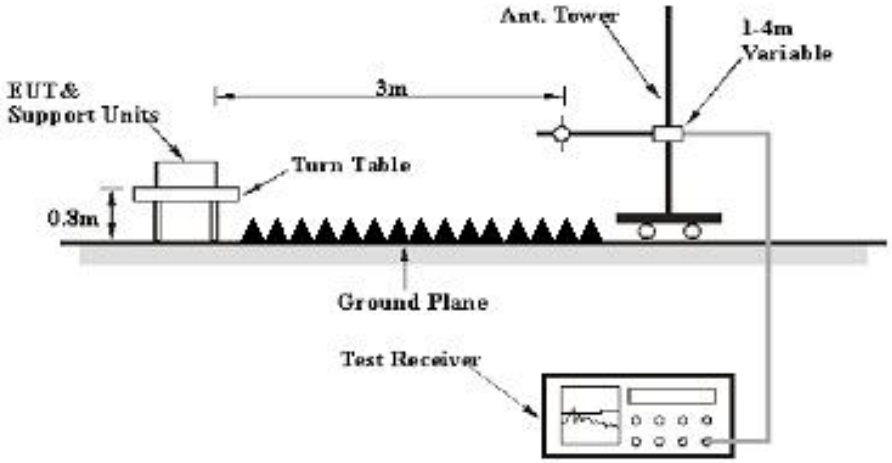
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission was performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	AVG

If the maximized peak measured value complies with under the limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21090077-RF-S1	Test Date:	2021-10-18
Test Site:	CE	Test Mode:	Downloading
Tester:	Alex Hu	Test Result:	Pass

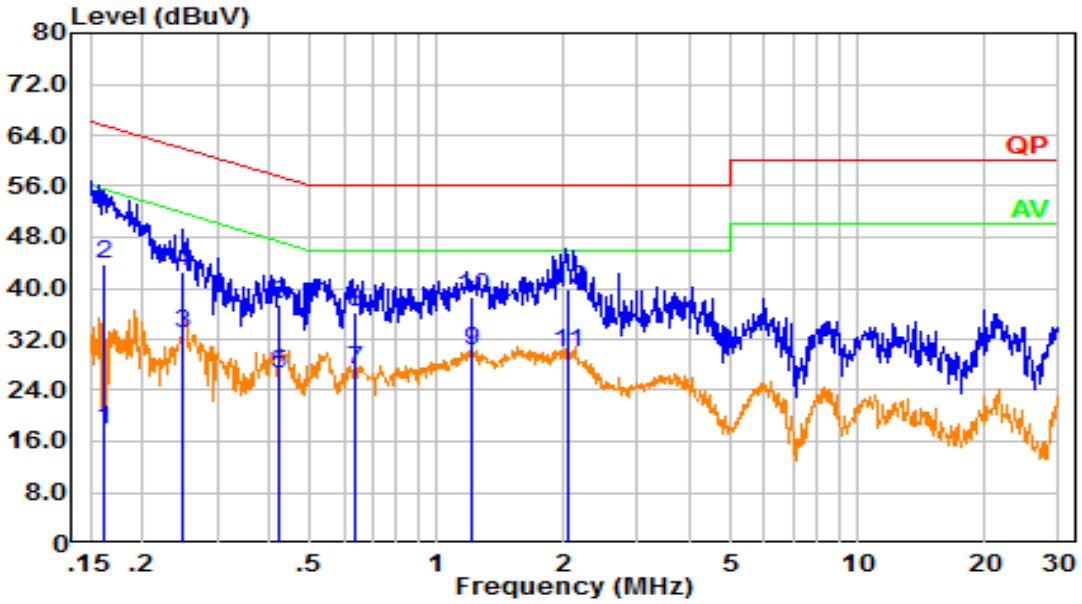
Environmental Conditions:					
Temperature: (℃)	25	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2021-04-25	2022-04-24
R&S	LISN	ENV216	101134	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

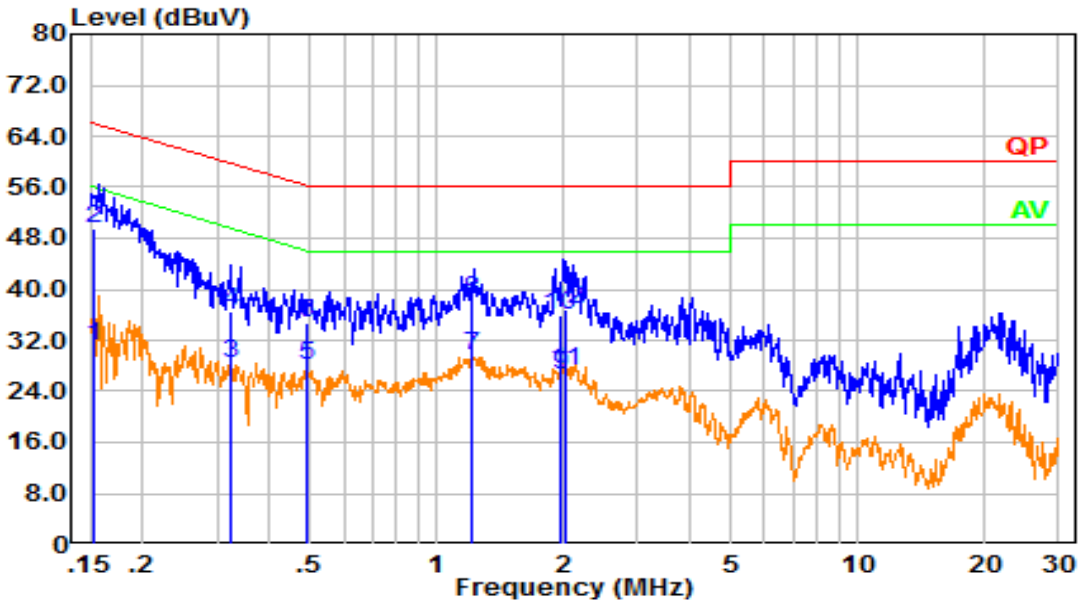
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Line:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.163	8.06	9.61	17.67	55.33	37.65	Average
2	0.163	34.21	9.61	43.82	65.33	21.51	QP
3	0.248	23.33	9.61	32.94	51.81	18.88	Average
4	0.248	32.92	9.61	42.53	61.81	19.29	QP
5	0.419	17.00	9.61	26.61	47.48	20.86	Average
6	0.419	27.76	9.61	37.37	57.48	20.10	QP
7	0.636	17.63	9.62	27.25	46.00	18.75	Average
8	0.636	26.67	9.62	36.29	56.00	19.71	QP
9	1.204	20.70	9.62	30.33	46.00	15.67	Average
10	1.204	29.17	9.62	38.79	56.00	17.21	QP
11	2.046	20.16	9.63	29.80	46.00	16.20	Average
12	2.046	30.23	9.63	39.86	56.00	16.14	QP

Neutral:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	21.57	9.61	31.18	55.83	24.65	Average
2	0.153	39.93	9.61	49.54	65.83	16.29	QP
3	0.324	18.80	9.61	28.41	49.61	21.20	Average
4	0.324	26.90	9.61	36.51	59.61	23.10	QP
5	0.490	18.59	9.61	28.20	46.17	17.97	Average
6	0.490	25.18	9.61	34.79	56.17	21.38	QP
7	1.217	19.86	9.62	29.49	46.00	16.51	Average
8	1.217	28.61	9.62	38.24	56.00	17.76	QP
9	1.954	16.79	9.63	26.42	46.00	19.58	Average
10	1.954	26.39	9.63	36.02	56.00	19.98	QP
11	2.024	17.49	9.63	27.12	46.00	18.88	Average
12	2.024	27.31	9.63	36.94	56.00	19.06	QP

4.2 Radiation Spurious Emissions

Serial Number:	CR21090077-RF-S1	Test Date:	2021-10-07~2021-10-11
Test Site:	966-1, 966-2	Test Mode:	Downloading
Tester:	Caps Hu, Carl Liang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.4~26.5	Relative Humidity: (%)	63~68	ATM Pressure: (kPa)	100~100.5~

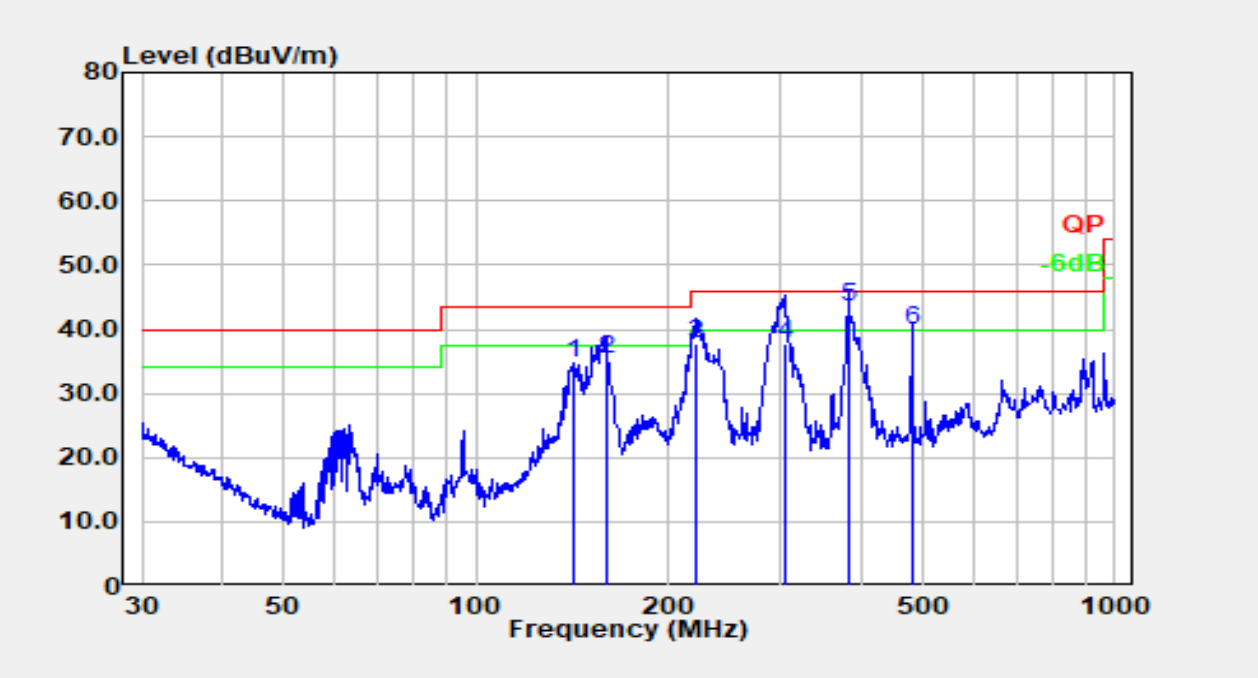
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-08-08	2022-08-07

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

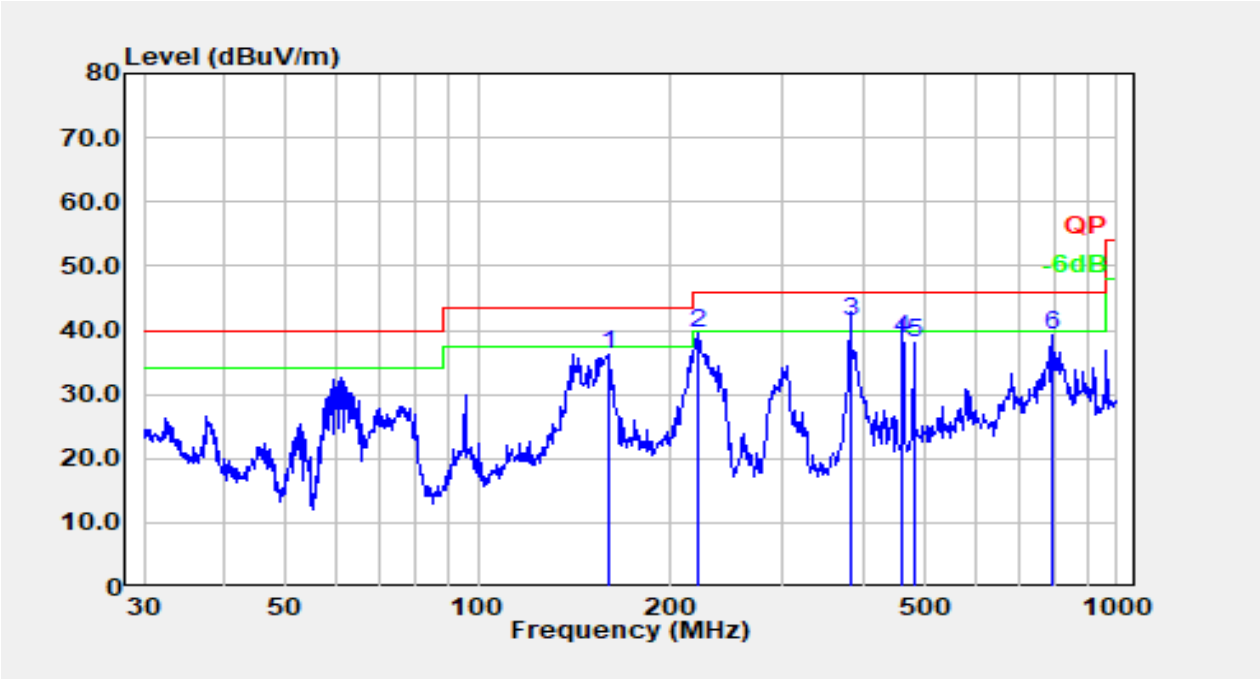
1) 30MHz-1GHz:

Horizontal:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	141.826	46.75	-12.17	34.59	43.50	8.91	Peak
2	159.784	47.50	-12.28	35.22	43.50	8.28	QP
3	221.392	50.70	-12.98	37.72	46.00	8.28	QP
4	303.544	48.50	-10.80	37.70	46.00	8.30	QP
5	382.588	52.80	-9.28	43.52	46.00	2.48	QP
6	480.528	46.40	-6.49	39.91	46.00	6.09	QP

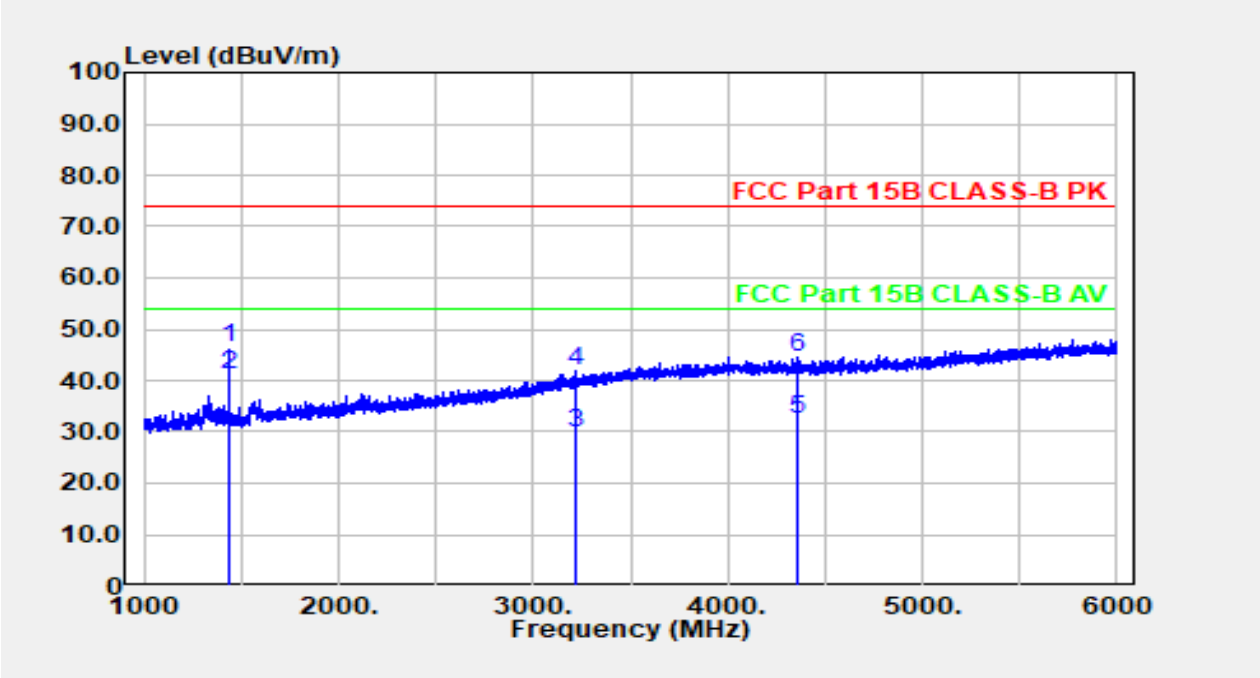
Vertical:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	159.784	48.58	-12.28	36.30	43.50	7.20	Peak
2	221.392	52.55	-12.98	39.57	46.00	6.43	Peak
3	382.588	50.60	-9.28	41.32	46.00	4.68	QP
4	462.346	45.35	-6.84	38.51	46.00	7.49	QP
5	480.528	44.66	-6.49	38.17	46.00	7.83	Peak
6	790.619	41.78	-2.56	39.22	46.00	6.78	Peak

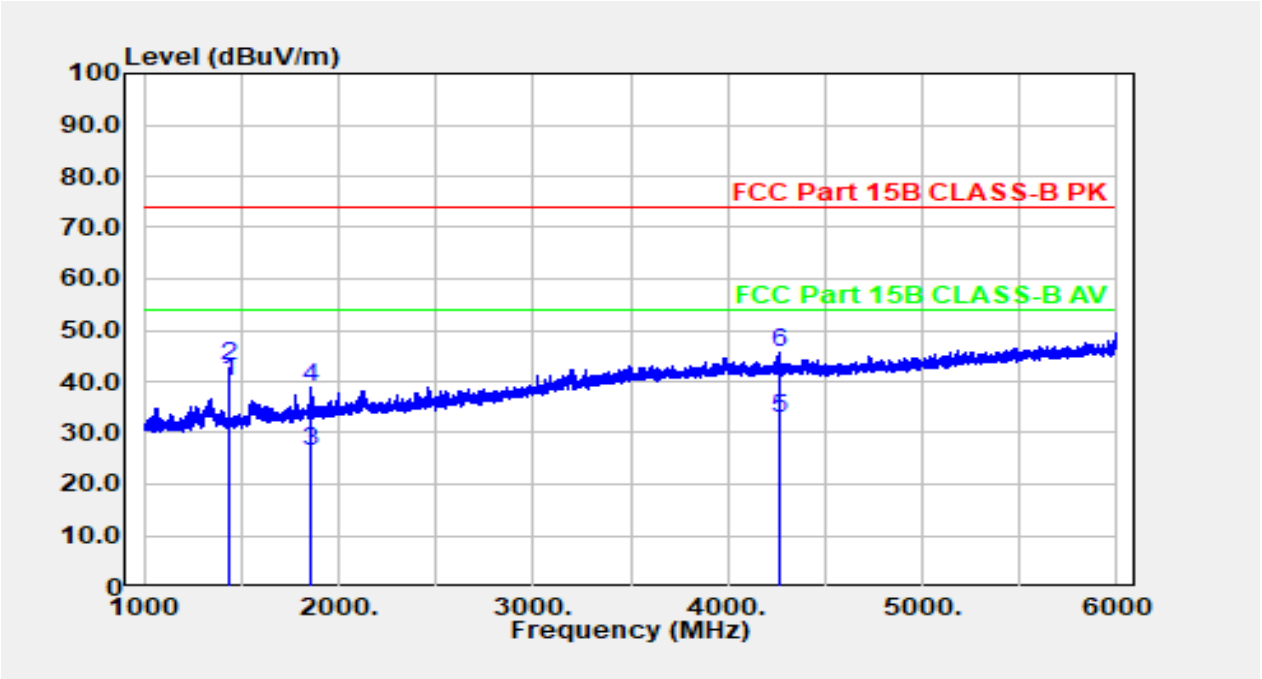
2) Above 1GHz

Horizontal:



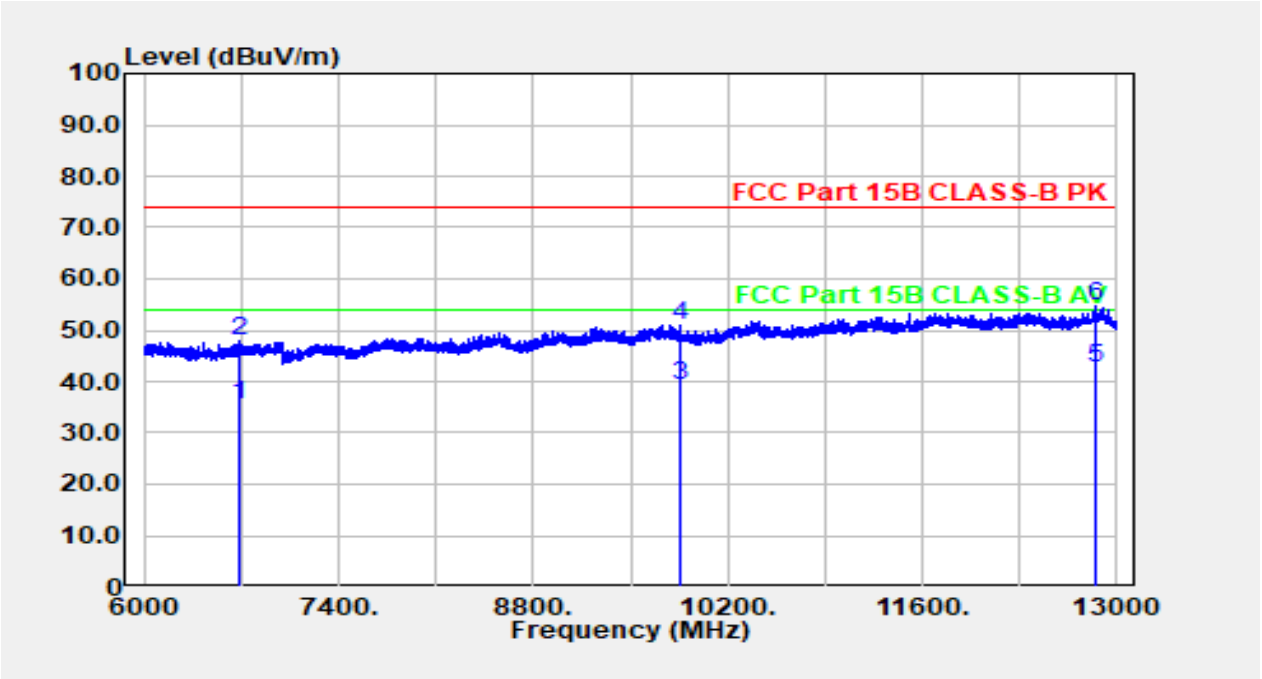
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1440.088	46.98	-0.67	46.31	74.00	27.69	Peak
2	1440.088	41.69	-0.67	41.02	54.00	12.98	Average
3	3223.445	22.65	7.29	29.94	54.00	24.06	Average
4	3223.445	34.68	7.29	41.97	74.00	32.03	Peak
5	4363.673	22.64	9.76	32.40	54.00	21.60	Average
6	4363.673	34.73	9.76	44.49	74.00	29.51	Peak

Vertical:



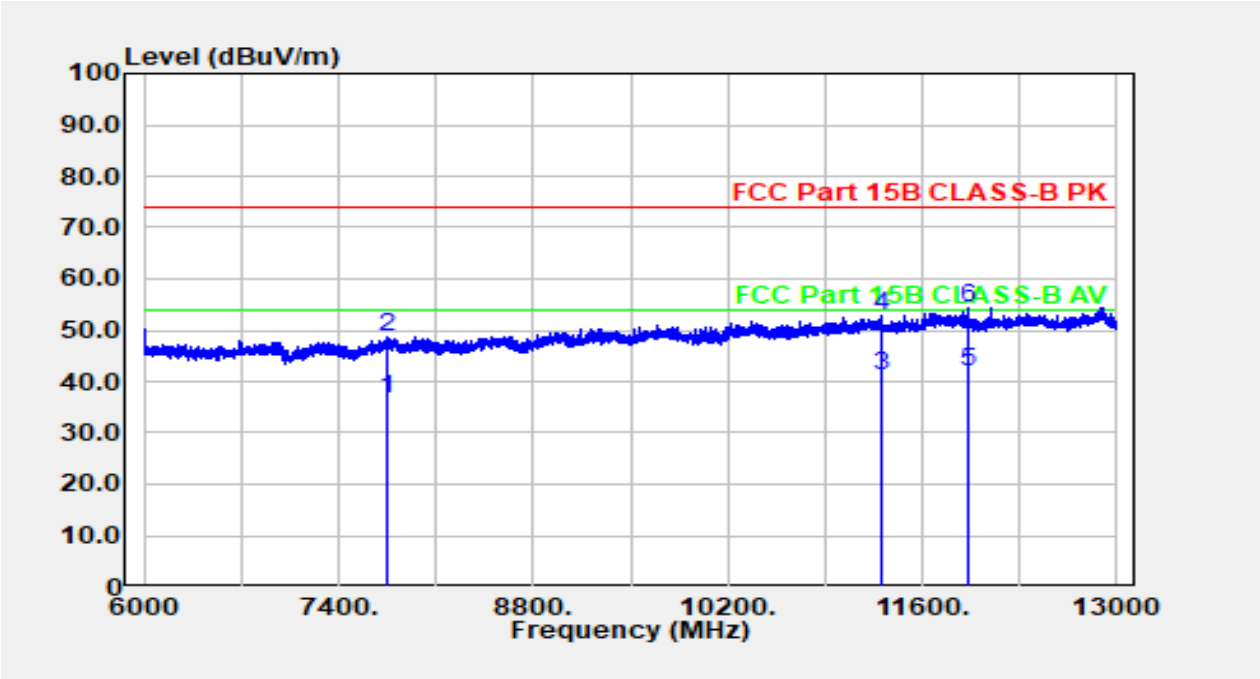
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	1439.088	40.51	-0.67	39.84	54.00	14.16	Average
2	1439.088	43.62	-0.67	42.95	74.00	31.05	Peak
3	1862.172	24.57	1.77	26.34	54.00	27.66	Average
4	1862.172	36.93	1.77	38.70	74.00	35.30	Peak
5	4262.652	23.16	9.71	32.87	54.00	21.13	Average
6	4262.652	35.85	9.71	45.56	74.00	28.44	Peak

Horizontal:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	6688.938	22.15	13.45	35.60	54.00	18.40	Average
2	6688.938	34.29	13.45	47.74	74.00	26.26	Peak
3	9856.371	21.34	17.82	39.16	54.00	14.84	Average
4	9856.371	33.22	17.82	51.04	74.00	22.96	Peak
5	12838.970	21.43	21.07	42.50	54.00	11.50	Average
6	12838.970	33.64	21.07	54.71	74.00	19.29	Peak

Vertical:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7757.352	21.65	15.12	36.77	54.00	17.23	Average
2	7757.352	33.64	15.12	48.76	74.00	25.24	Peak
3	11301.460	21.47	19.78	41.25	54.00	12.75	Average
4	11301.460	33.01	19.78	52.79	74.00	21.21	Peak
5	11935.790	21.44	20.44	41.88	54.00	12.12	Average
6	11935.790	33.77	20.44	54.21	74.00	19.79	Peak

===== END OF REPORT =====