

FCC EMC Test Report

Report No.: JYTSZ-R01-2500152

Applicant: SWAGTEK

Address of Applicant: 10205 NW 19th Street, STE 101, Miami, FL33172, USA

Equipment Under Test (EUT)

Product Name: 4G Feature Phone

Model No.: A20L, KONTACT

Trade Mark: LOGIC, UNONU, iSWAG

FCC ID: O55175124

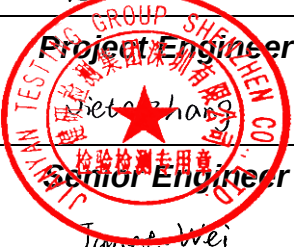
Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 09 Apr., 2025

Date of Test: 10 Apr., to 14 May, 2025

Date of report Issued: 15 May, 2025

Test Result: PASS

Project by:	<u>Robin Gu</u>	Date:	<u>15 May, 2025</u>
			
Reviewed by:	<u>Heter Zhang</u>	Date:	<u>15 May, 2025</u>
	Senior Engineer		
Approved by:	<u>Junce Wei</u>	Date:	<u>15 May, 2025</u>
	Manager		

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	15 May, 2025	Original

2 Contents

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3 General Information

3.1 Client Information

Applicant:	SWAGTEK
Address:	10205 NW 19th Street,STE 101, Miami, FL33172,USA
Manufacturer:	SWAGTEK
Address:	10205 NW 19th Street,STE 101, Miami, FL33172,USA
Factory:	SWAGTEK
Address:	10205 NW 19th Street,STE 101, Miami, FL33172,USA

3.2 General Description of E.U.T.

Product Name:	4G Feature Phone
Model No.:	A20L, KONTACT
Power Supply:	Rechargeable Li-ion Battery DC3.7V, 1000mAh
AC Adapter:	Model: YD050AN-002-01 Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 500mA
Remark:	A20L, KONTACT were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and trade mark.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
/	/	/	/	/

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.4 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	±4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	±4.3 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	01-02-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-15-2025	01-14-2026
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

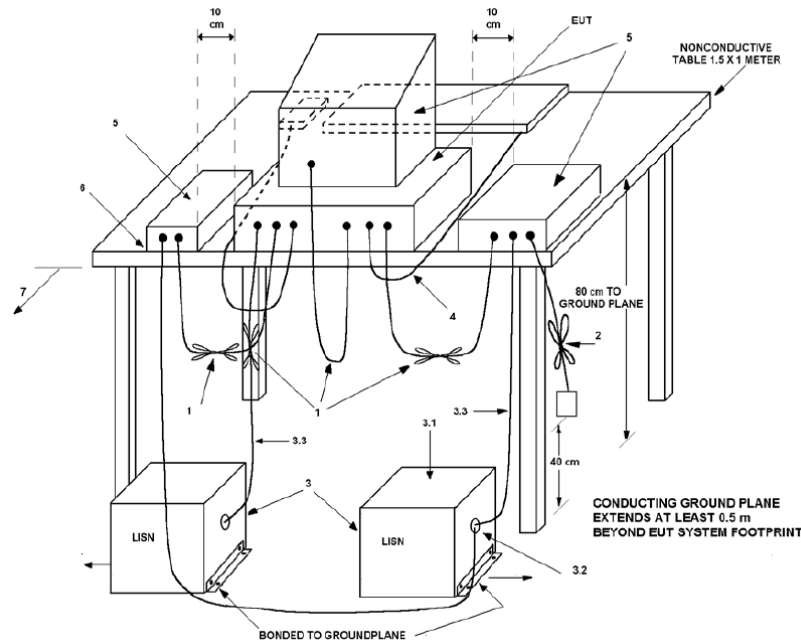
Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2026
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	12-25-2024	12-24-2025
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	12-24-2024	12-23-2025
EMI Test Receiver	R&S	ESR 3	WXJ090-3	12-16-2024	12-15-2025
EMI Test Receiver	R&S	ESR 3	WXJ090-4	12-16-2024	12-15-2025
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	12-16-2024	12-15-2025
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	12-16-2024	12-15-2025
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-16-2025	01-15-2026
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-16-2025	01-15-2026
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	06-11-2024	06-10-2025
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-17-2024	12-16-2025
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-17-2024	12-16-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-15-2025	01-14-2026
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

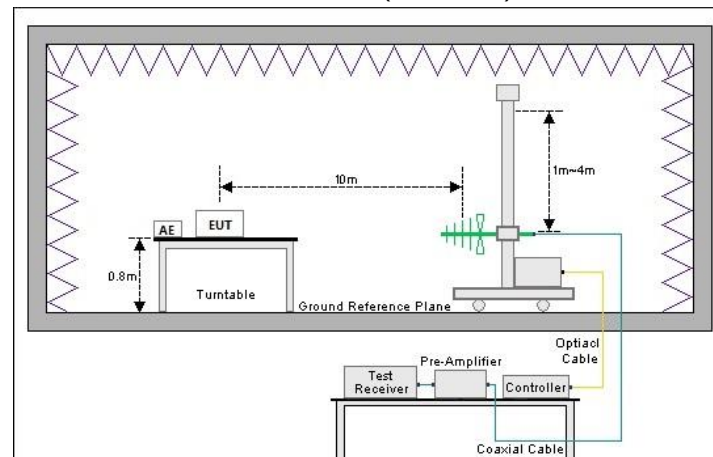
1) Conducted emission measurement:

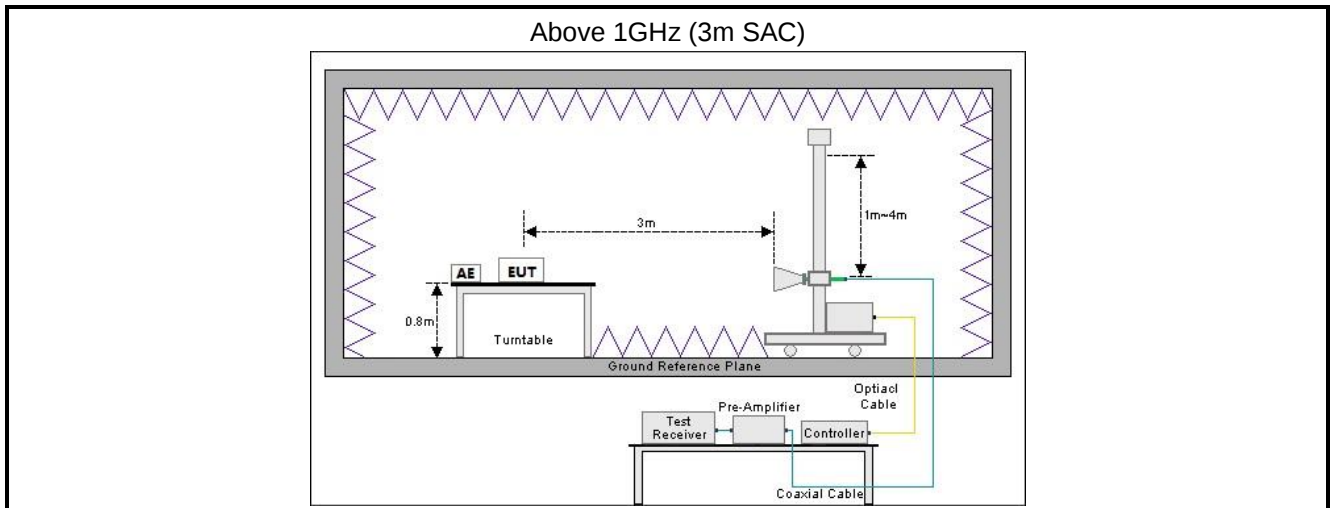


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (10m SAC)





4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

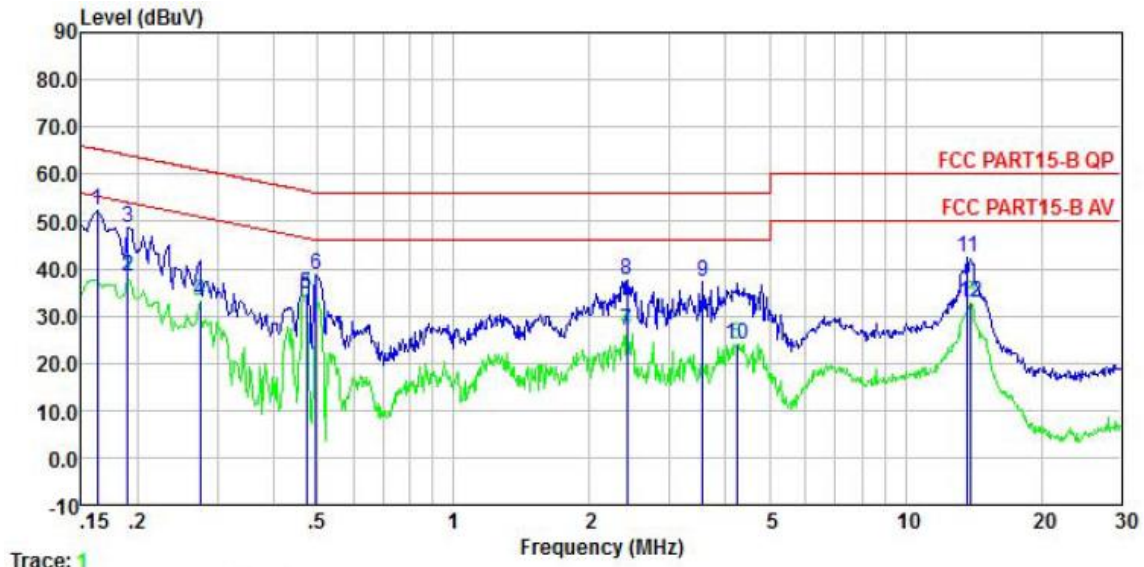
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test Method:	ANSI C63.4:2014		

5.1.2 Test Limit

Test items	Limit																																																					
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="5">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.					Note 2: The more stringent limit applies at transition frequencies.																							
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5.2 Conducted Emission

Product name:	4G Feature Phone	Product model:	A20L
Test by:	Kiran Zeng	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

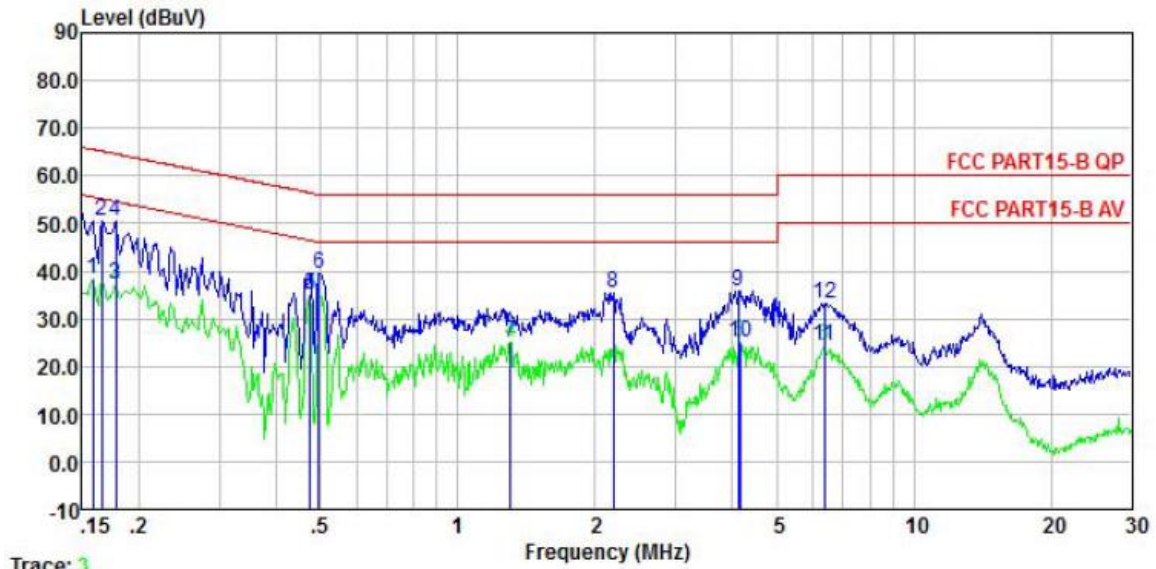


	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	32.28	10.17	0.00	9.88	0.01	52.34	65.34	-13.00	QP
2	0.190	18.27	10.12	0.00	9.88	0.03	38.30	54.02	-15.72	Average
3	0.190	28.67	10.12	0.00	9.88	0.03	48.70	64.02	-15.32	QP
4	0.274	13.03	10.10	0.00	9.88	0.02	33.03	50.98	-17.95	Average
5	0.471	14.49	10.14	0.00	9.88	0.03	34.54	46.49	-11.95	Average
6	0.497	18.55	10.15	0.00	9.88	0.03	38.61	56.05	-17.44	QP
7	2.422	6.85	10.20	0.00	9.88	0.14	27.07	46.00	-18.93	Average
8	2.422	17.25	10.20	0.00	9.88	0.14	37.47	56.00	-18.53	QP
9	3.565	17.10	10.18	0.00	9.89	0.08	37.25	56.00	-18.75	QP
10	4.224	4.00	10.14	0.00	9.89	0.08	24.11	46.00	-21.89	Average
11	13.695	21.52	10.68	0.00	9.93	0.12	42.25	60.00	-17.75	QP
12	13.989	12.18	10.71	0.00	9.93	0.12	32.94	50.00	-17.06	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	4G Feature Phone	Product model:	A20L
Test by:	Kiran Zeng	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 3

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.158	18.07	10.20	0.00	9.88	0.01	38.16	55.56	-17.40	Average
2	0.166	30.54	10.20	0.00	9.88	0.01	50.63	65.16	-14.53	QP
3	0.178	17.30	10.20	0.00	9.88	0.01	37.39	54.59	-17.20	Average
4	0.178	30.44	10.20	0.00	9.88	0.01	50.53	64.59	-14.06	QP
5	0.474	15.10	10.18	0.00	9.88	0.03	35.19	46.45	-11.26	Average
6	0.497	19.43	10.20	0.00	9.88	0.03	39.54	56.05	-16.51	QP
7	1.303	4.94	10.24	0.00	9.88	0.11	25.17	46.00	-20.83	Average
8	2.190	15.11	10.28	0.00	9.88	0.18	35.45	56.00	-20.55	QP
9	4.114	15.65	10.20	0.00	9.89	0.08	35.82	56.00	-20.18	QP
10	4.158	4.83	10.20	0.00	9.89	0.08	25.00	46.00	-21.00	Average
11	6.352	3.99	10.27	0.00	9.90	0.09	24.25	50.00	-25.75	Average
12	6.352	12.92	10.27	0.00	9.90	0.09	33.18	60.00	-26.82	QP

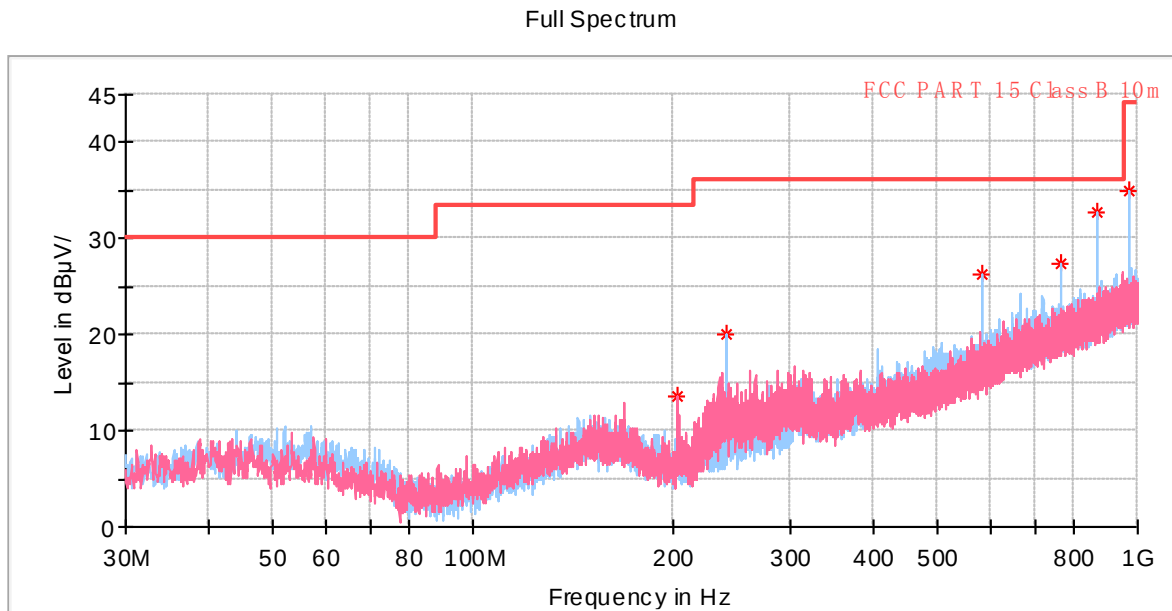
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	4G Feature Phone	Product Model:	A20L
Test By:	Kiran Zeng	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120V/60Hz		



Critical_Freqs

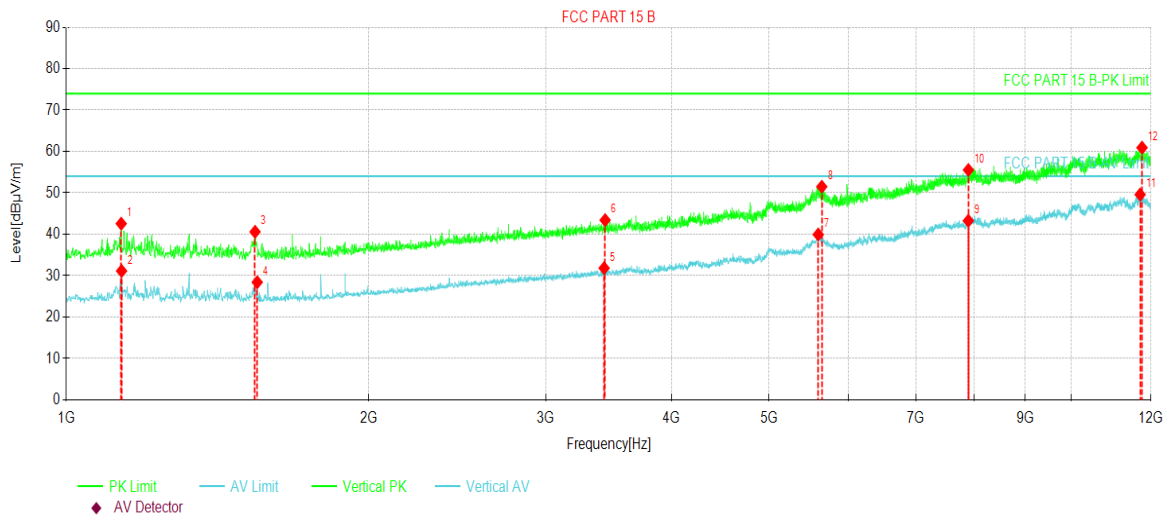
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
202.563000	13.61	33.50	19.89	100.0	V	150.0	-18.2
240.053500	20.04	36.00	15.96	100.0	H	143.0	-16.1
583.191000	26.31	36.00	9.69	100.0	H	242.0	-7.1
768.024500	27.45	36.00	8.55	100.0	H	242.0	-3.5
870.408000	32.65	36.00	3.35	100.0	H	194.0	-2.2
972.791500	34.90	44.00	9.10	100.0	H	290.0	-0.5

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	4G Feature Phone	Product Model:	A20L
Test By:	Kiran Zeng	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 12000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



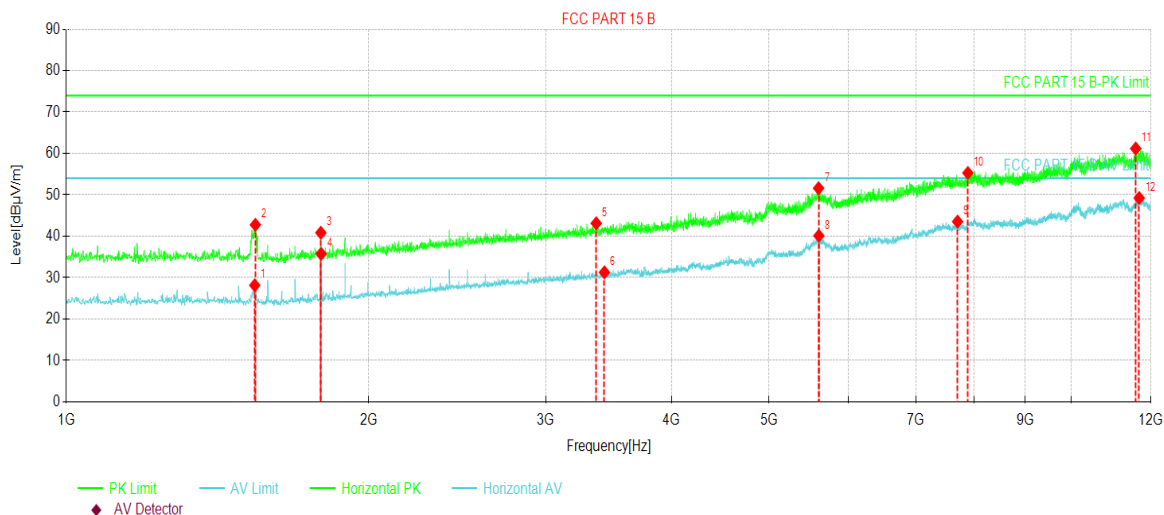
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1134.2000	65.11	42.56	-22.55	74.00	31.44	PK	Vertical
2	1135.3000	53.70	31.14	-22.56	54.00	22.86	AV	Vertical
3	1541.2000	62.95	40.59	-22.36	74.00	33.41	PK	Vertical
4	1548.9000	50.79	28.41	-22.38	54.00	25.59	AV	Vertical
5	3428.8000	47.51	31.83	-15.68	54.00	22.17	AV	Vertical
6	3436.5000	59.07	43.42	-15.65	74.00	30.58	PK	Vertical
7	5599.1000	44.53	39.94	-4.59	54.00	14.06	AV	Vertical
8	5645.3000	56.48	51.48	-5.00	74.00	22.52	PK	Vertical
9	7897.0000	43.56	43.26	-0.30	54.00	10.74	AV	Vertical
10	7898.1000	55.82	55.52	-0.30	74.00	18.48	PK	Vertical
11	11704.1000	43.95	49.59	5.64	54.00	4.41	AV	Vertical
12	11755.8000	55.15	60.91	5.76	74.00	13.09	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Product Name:	4G Feature Phone	Product Model:	A20L
Test By:	Kiran Zeng	Test mode:	PC mode
Test Frequency:	1000 MHz ~ 12000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1540.1000	50.51	28.15	-22.36	54.00	25.85	AV	Horizontal
2	1542.3000	65.13	42.77	-22.36	74.00	31.23	PK	Horizontal
3	1792.0000	62.70	40.85	-21.85	74.00	33.15	PK	Horizontal
4	1793.1000	57.60	35.76	-21.84	54.00	18.24	AV	Horizontal
5	3367.2000	59.03	43.13	-15.90	74.00	30.87	PK	Horizontal
6	3431.0000	46.97	31.29	-15.68	54.00	22.71	AV	Horizontal
7	5603.5000	56.21	51.61	-4.60	74.00	22.39	PK	Horizontal
8	5606.8000	44.74	40.11	-4.63	54.00	13.89	AV	Horizontal
9	7704.5000	44.24	43.55	-0.69	54.00	10.45	AV	Horizontal
10	7888.2000	55.59	55.28	-0.31	74.00	18.72	PK	Horizontal
11	11586.4000	55.76	61.20	5.44	74.00	12.80	PK	Horizontal
12	11681.0000	43.65	49.23	5.58	54.00	4.77	AV	Horizontal

Remark:

- Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- Test Frequency up to 18GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

-----End of report-----