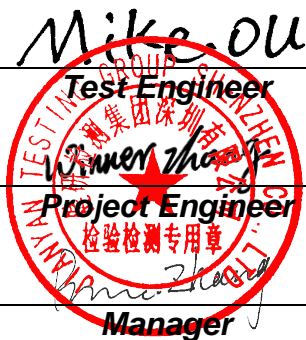


# FCC EMC Test Report

**Applicant:** Sky Phone LLC  
**Address of Applicant:** 1348 Washington Av. Suite 350, Miami Beach, FL 33139  
**Equipment Under Test (EUT)**  
Product Name: 4G Smart Phone  
Model No.: Elite L55, Elite N55  
Trade Mark: SKY DEVICES  
**FCC ID:** 2ABOSSKYELITEL55  
**Applicable Standards:** FCC CFR Title 47 Part 15B  
**Date of Sample Receipt:** 09 Sep., 2022  
**Date of Test:** 10 Sep., to 15 Sep., 2022  
**Date of report Issued:** 16 Sep., 2022  
**Test Result:** PASS

**Tested by:** Mike Ou **Date:** 16 Sep., 2022  
**Reviewed by:** Winner Zhao **Date:** 16 Sep., 2022  
**Approved by:** Manager **Date:** 16 Sep., 2022



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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 1 Version

Version No.	Date	Description
00	16 Sep., 2022	Original

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### 3 General Information

#### 3.1 Client Information

Applicant:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	Sky Phone LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

#### 3.2 General Description of E.U.T.

Product Name:	4G Smart Phone
Model No.:	Elite L55, Elite N55
Power Supply:	Rechargeable Li-ion Battery DC3.7V, 2000mAh
AC Adapter:	Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: Elite L55, Elite N55 were identical inside, the electrical circuit design, layout, components used and internal wiring, with difference being model name and memory.

#### 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
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m (10m) 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

### 3.5 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter

### 3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	±4.32 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

<b>Radiated Emission(3m SAC):</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

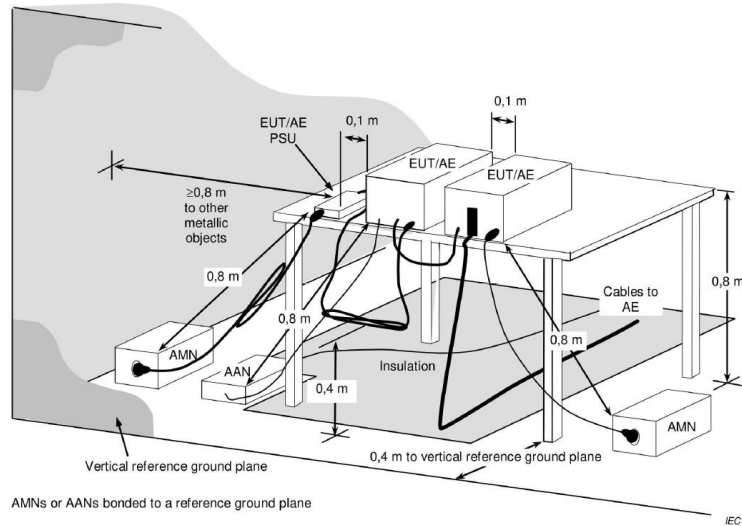
<b>Radiated Emission(10m SAC):</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	04-01-2022	03-31-2023
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	03-31-2022	03-30-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-3	03-30-2022	03-29-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-4	03-30-2022	03-29-2023
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	01-20-2022	01-19-2023
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	01-20-2022	01-19-2023
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-20-2022	01-19-2023
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-20-2022	01-19-2023
Test Software	R&S	EMC32	Version: 10.50.40		

<b>Conducted Emission:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	10-21-2021	10-20-2022
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-24-2022	02-23-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	03-30-2022	03-29-2023
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-24-2022	02-23-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

## 4 Measurement Setup and Procedure

### 4.1 Test Setup

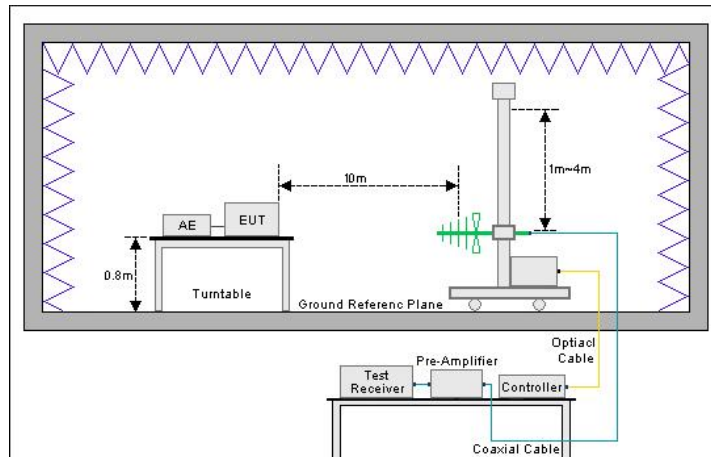
#### 1) Conducted emission measurement:



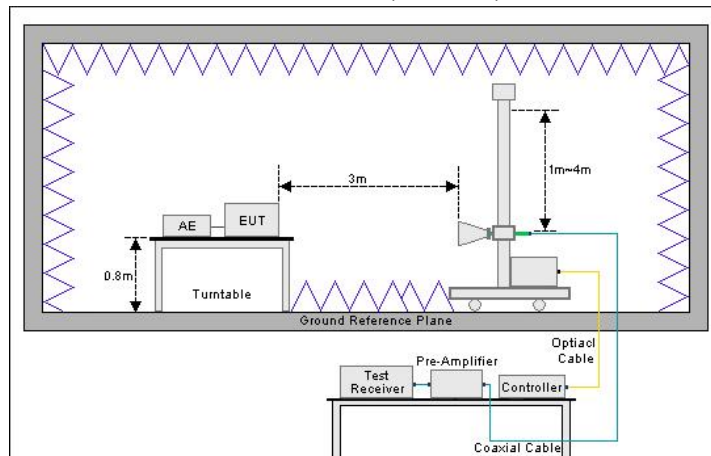
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

#### 2) Radiated emission measurement:

Below 1GHz (10m SAC)



Above 1GHz (3m SAC)



## 4.2 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> </ol>
Radiated emission	<p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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 &amp; 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.</li> <li>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.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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 &amp; 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.</li> <li>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.</li> </ol>



## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and data summary

This report was amended on FCC ID: 2ABOSSKYELITEL55 follow FCC Class II Permissive Change. The original report: JYTSZB-R01-2100848, issued by JianYan Testing Group Shenzhen Co., Ltd. The differences between them as below: Add model, different memory. So need to retest.

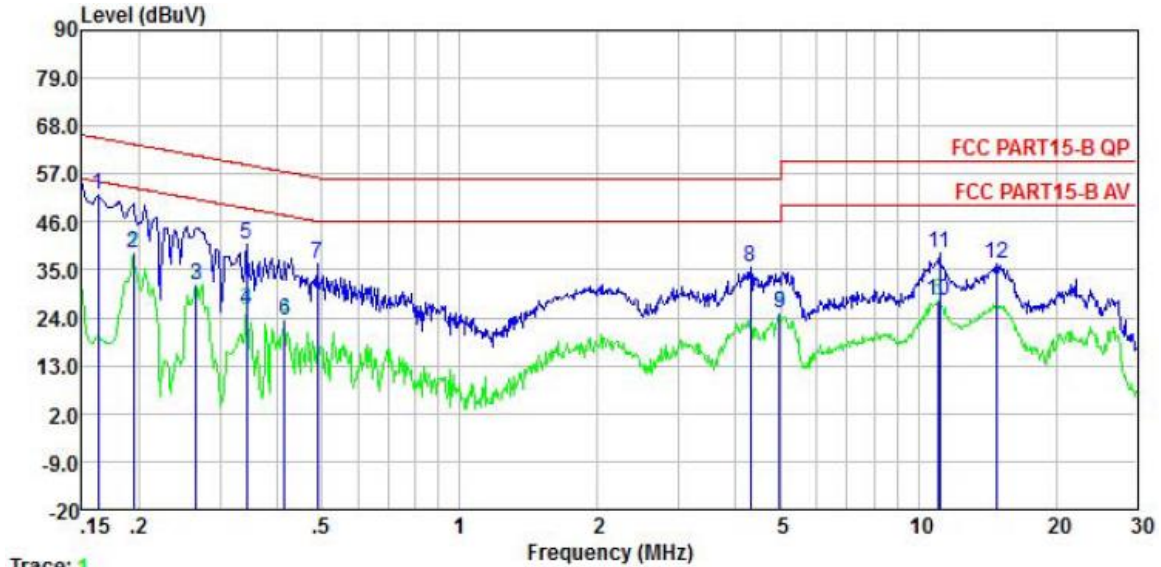
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 6.2	Pass
Radiated Emission	Part 15.109	See Section 6.3	Pass
<b>Remark:</b>			
1. The EUT is a <b>Class B</b> digital device.			
2. Pass: The EUT complies with the essential requirements in the standard.			
3. The Elite N55 please refer to FCC ID: 2ABOSSKYELITEL55, report No.: JYTSZB-R01-2100848.			
<b>Test Method:</b>	ANSI C63.4:2014		

#### 5.1.2 Test Limit

Test items	Limit					
Conducted Emission	Frequency (MHz)	Class A Limit (dB $\mu$ V)		Class B Limit (dB $\mu$ V)		
		Quasi-Peak	Average	Quasi-Peak	Average	
	0.15 – 0.5	79	66	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>	
	0.5 – 5	73	60	56	46	
	5 – 30	73	60	60	50	
Note 1: The limit level in dB $\mu$ V decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.						
Radiated Emission	Frequency (MHz)	Class A Limit (dB $\mu$ V/m)		Class B Limit (dB $\mu$ V/m)		
		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m	
	30 – 88	49.0	39.0	40.0	30.0	
	88 – 216	53.5	43.5	43.5	33.5	
	216 – 960	56.0	46.0	46.0	36.0	
	960 – 1000	60.0	50.0	54.0	44.0	
	Note: The more stringent limit applies at transition frequencies.					
	Frequency	Class A Limit (dB $\mu$ V/m) @ 3m		Class B Limit (dB $\mu$ V/m) @ 3m		
		Average	Peake	Average	Peake	
	Above 1 GHz	60.0	80.0	54.0	74.0	
Note: The measurement bandwidth shall be 1 MHz or greater.						

## 5.2 Conducted Emission

Product name:	4G Smart Phone	Product model:	Elite N55
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



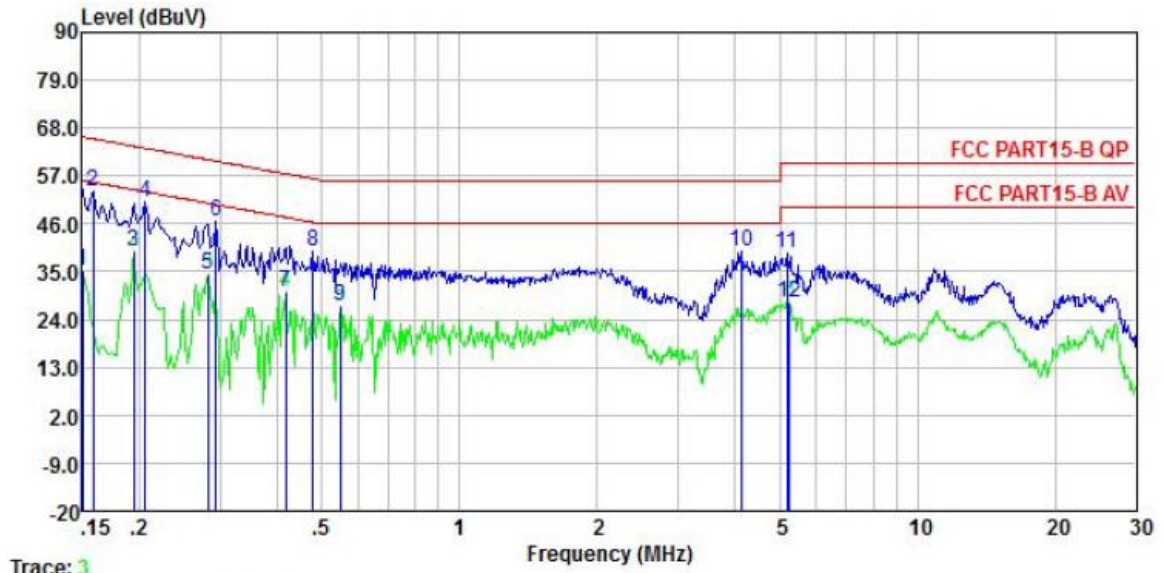
Trace: 1

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	52.04	0.04	0.01	52.09	65.34	-13.25	QP
2	0.194	38.84	0.05	0.03	38.92	53.84	-14.92	Average
3	0.266	31.61	0.06	0.02	31.69	51.25	-19.56	Average
4	0.343	25.94	0.06	0.02	26.02	49.13	-23.11	Average
5	0.343	40.63	0.06	0.02	40.71	59.13	-18.42	QP
6	0.415	23.46	0.05	0.04	23.55	47.55	-24.00	Average
7	0.489	36.19	0.05	0.03	36.27	56.19	-19.92	QP
8	4.315	35.30	0.11	0.08	35.49	56.00	-20.51	QP
9	4.978	25.00	0.12	0.09	25.21	46.00	-20.79	Average
10	11.021	27.38	0.24	0.11	27.73	50.00	-22.27	Average
11	11.139	38.40	0.24	0.11	38.75	60.00	-21.25	QP
12	14.828	35.88	0.29	0.14	36.31	60.00	-23.69	QP

**Remark:**

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

<b>Product name:</b>	4G Smart Phone	<b>Product model:</b>	Elite N55
<b>Test by:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 3

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	35.17	0.06	0.01	35.24	56.00	-20.76	Average
2	0.158	53.32	0.06	0.01	53.39	65.56	-12.17	QP
3	0.194	39.77	0.05	0.03	39.85	53.84	-13.99	Average
4	0.206	51.08	0.05	0.04	51.17	63.36	-12.19	QP
5	0.282	34.26	0.05	0.02	34.33	50.76	-16.43	Average
6	0.294	46.37	0.05	0.03	46.45	60.41	-13.96	QP
7	0.417	30.15	0.04	0.04	30.23	47.51	-17.28	Average
8	0.479	39.74	0.04	0.03	39.81	56.36	-16.55	QP
9	0.549	27.12	0.05	0.02	27.19	46.00	-18.81	Average
10	4.136	39.58	0.10	0.08	39.76	56.00	-16.24	QP
11	5.194	38.96	0.12	0.09	39.17	60.00	-20.83	QP
12	5.249	27.84	0.12	0.09	28.05	50.00	-21.95	Average

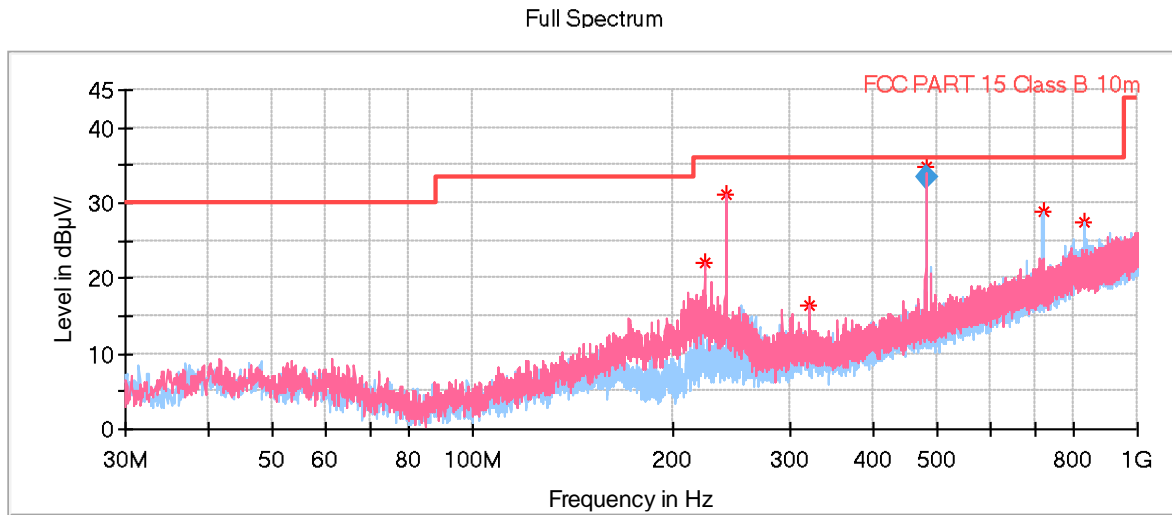
**Remark:**

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

### 5.3 Radiated Emission

Below 1GHz:

<b>Product Name:</b>	4G Smart Phone	<b>Product Model:</b>	Elite N55
<b>Test By:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical & Horizontal
<b>Test Voltage:</b>	AC 120V/60Hz		



- \* Critical\_Freqs PK+
- ◆ Final\_Result QPK
- Preview Result 1V-PK+
- FCC PART 15 Class B 10m
- Preview Result 1H-PK+

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
222.690500	21.97	36.00	14.03	100.0	V	72.0	-17.5
240.005000	31.22	36.00	4.78	100.0	V	0.0	-17.1
321.679000	16.45	36.00	19.55	100.0	V	58.0	-14.2
479.983000	34.82	36.00	1.26	102.0	V	66.0	-9.7
720.009500	28.81	36.00	7.19	100.0	H	273.0	-5.0
831.462500	27.48	36.00	8.52	100.0	H	219.0	-2.7

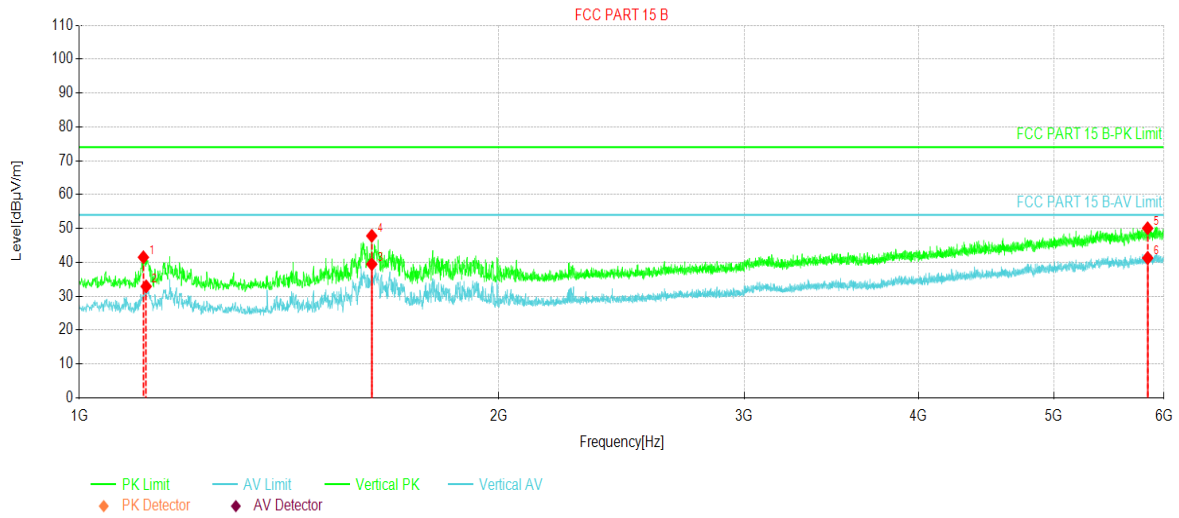
Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
479.983000	33.51	36.00	2.49	102.0	V	66.0	-9.7

**Remark:**

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

**Above 1GHz:**

<b>Product Name:</b>	4G Smart Phone	<b>Product Model:</b>	Elite N55
<b>Test By:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	1000 MHz ~ 6000 MHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120V/60Hz		

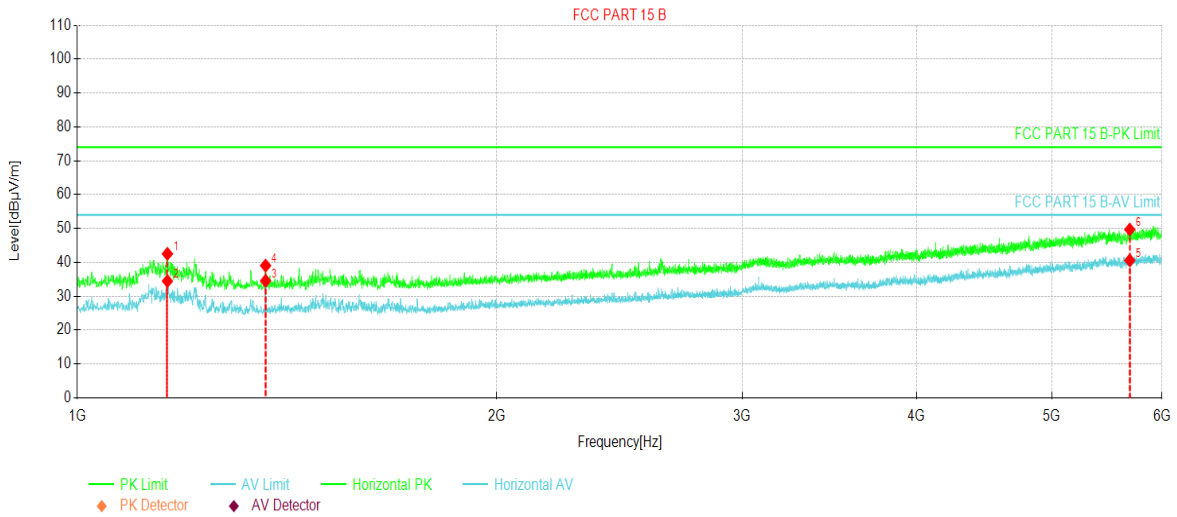


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1111.87	64.30	-22.80	41.50	74.00	32.50	PK	Vertical
2	1116.87	55.71	-22.81	32.90	54.00	21.10	AV	Vertical
3	1621.25	61.86	-22.39	39.47	54.00	14.53	AV	Vertical
4	1621.25	70.23	-22.39	47.84	74.00	26.16	PK	Vertical
5	5840.00	54.65	-4.59	50.06	74.00	23.94	PK	Vertical
6	5840.00	45.89	-4.59	41.30	54.00	12.70	AV	Vertical

**Remark:**

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

<b>Product Name:</b>	4G Smart Phone	<b>Product Model:</b>	Elite N55
<b>Test By:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	1000 MHz ~ 6000 MHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120V/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1160.62	65.46	-22.94	42.52	74.00	31.48	PK	Horizontal
2	1160.62	57.43	-22.94	34.49	54.00	19.51	AV	Horizontal
3	1365.00	57.00	-22.44	34.56	54.00	19.44	AV	Horizontal
4	1365.00	61.48	-22.44	39.04	74.00	34.96	PK	Horizontal
5	5688.75	45.72	-5.13	40.59	54.00	13.41	AV	Horizontal
6	5688.75	54.82	-5.13	49.69	74.00	24.31	PK	Horizontal

**Remark:**

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

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