

Report No: CCISE181210406

# FCC REPORT

Applicant:	SKY PHONE LLC		
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, FL 33139		
Equipment Under Test (B	EUT)		
Product Name:	4G Smart Phone		
Model No.:	Elite T55		
Trade mark:	SKY DEVICES		
FCC ID:	2ABOSSKYELITET55		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B		
Date of sample receipt:	20 Dec., 2018		
Date of Test:	20 Dec., 2018 to 21 Jan., 2019		
Date of report issued:	21 Jan., 2019		
Test Result:	PASS *		

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



### Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	21 Jan., 2019	Original

Tested by:

Mike.0U

Date:

21 Jan., 2019

21 Jan., 2019

Test Engineer

Reviewed by:

Wimer whan's

Date:

**Project Engineer** 

## <u>CCIS</u>

### Report No: CCISE181210406

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## 4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		
Remark: Pass: The EUT complies with the essential requirements in the standard. N/A: The EUT not applicable of the test item.				



## **5** General Information

## **5.1 Client Information**

Applicant:	SKY PHONE LLC
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

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

Product Name:	4G Smart Phone
Model No.:	Elite T55
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2500mAh
AC adapter :	Model: Elite T55 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

## 5.3 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 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.

## 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)



## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

## 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.7 Description of Cable Used

Cable Type Description		Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

## 5.8 Laboratory Facility

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

#### FCC - Registration No.: 727551

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

#### IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing 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 L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

#### A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

### 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

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

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



## 5.10 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	V	/ersion: 6.110919	b	
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019	
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-07-2018	03-06-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



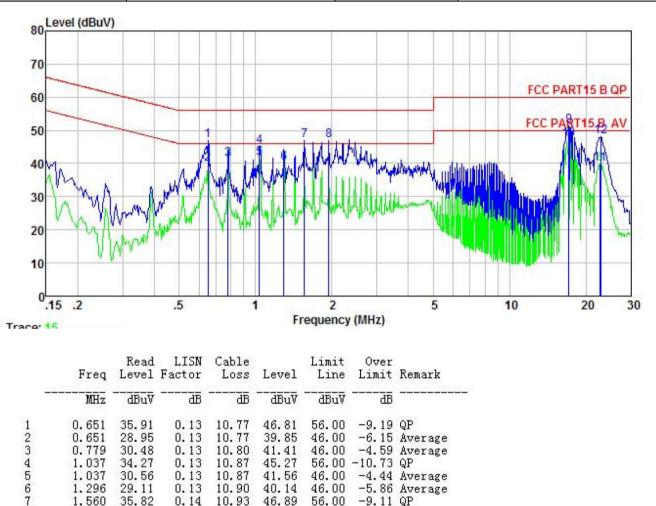
## 6 Test results and Measurement Data

## 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	)7						
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:		Limit	(dBµV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	0.5-30	60	50					
	* Decreases with the logarith	m of the frequency.						
Test setup:	Reference Plar	ne						
	AUX       Filter       AC power         Equipment       E.U.T       EMI         Test table/Insulation plane       EMI         Remark       E.U.T. Equipment Under Test         LISN: Line impedence Stabilization Network       Test table height=0.8m							
Test procedure	<ol> <li>The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp</li> <li>The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4:</li> </ol>	on network(L.I.S.N.). The bedance for the measure also connected to the ohm/50uH coupling imposed to the block diagram be checked for maximure and the maximum emiss d all of the interface ca	ne provide a ring equipment. e main power through bedance with 500hm of the test setup and n conducted ion, the relative bles must be changed					
Test Instruments:	Refer to section 5.9 for detai	ls						
Test mode:	Refer to section 5.3 for detail	ls						
Test results:	Pass							

#### Measurement data:

Product name:	4G Smart Phone	Product model:	Elite T55
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



46.00

46.00

46.00

56.00

56.00

60.00

50.00

56.00 -10.73 QP

-4.59 Average

-4.44 Average

-5.86 Average

-2.67 Average

-9.11 QP

-9.04 QP

-8.70 QP

50.00 -10.04 Average

60.00 -11.99 QP

Notes:

8

9

10

11

12

0.779

1.037

1.037

1.296

1.560

1.949

17.109

17.109

22.775

22.896

30.48

34.27

30.56

29.11

35.82

35.86

40.09

36.12

28.75

36.81

0.13

0.13

0.13

0.13

0.14

0.14

0.30

0.30

0.31

0.31

10.80

10.87

10.87

10.90

10.93

10.96

10.91

10.91

10.90

10.89

41.41

45.27

41.56

40.14

46.89

46.96

51.30

47.33

39.96

48.01

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission. 2.

Final Level =Receiver Read level + LISN Factor + Cable Loss. 3.





	4G Smart Ph			odel:	Elite T55	
est by:	Mike			:	PC mode	
est frequency:	150 kHz ~ 30 MHz		Phase:		Neutral	
est voltage:	AC 120 V/6	) Hz	Environme	nt:	<b>Temp: 22.5</b> ℃	Huni: 55%
80 Level (dBuV) 70 60 50 40 30 20 10 0 .15 .2	.5		6 A A A A A A A A A A A A A A A A A A A	5		ART15 B QP
Freq MHz	Read LISN Level Factor dBuV dB		Limit Over Line Limit R 	lemark		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36.42       0.97         35.31       0.97         29.72       0.67         33.71       0.98         26.41       0.67         32.83       0.99         24.98       0.70         25.86       0.69         40.31       0.80         31.52       0.69	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	NP Average NP Average NP Average Average NP Average		



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## 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B	Section 1	5.109						
Test Method:	ANSI C63.4:201	4							
Test Frequency Range:	30MHz to 6000	30MHz to 6000MHz							
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)	)		
Receiver setup:	Frequency Detector RBW VBW					Ν	/ Remark		
	30MHz-1GHz	Quasi-		120kHz	300k				
	Above 1GHz	Pea		1MHz	3MF		Peak Value		
1 :	Frequenc	RM		1MHz (dBuV/m @	3MF	1 <u>Z</u>	Average Value Remark		
Limit:	30MHz-88M	•	LIIIII	40.0	2011)	0	Quasi-peak Value		
	88MHz-216M			40.0			Quasi-peak Value		
	216MHz-960			46.0			Quasi-peak Value		
	960MHz-1G			54.0			Quasi-peak Value		
				54.0			Average Value		
	Above 1G	ΗZ		74.0			Peak Value		
Test setup:	EUT Turn Table Oround Plane – Above 1GHz		$\overline{\mathbb{V}}$		Antenna - Searc Anten RF Test Receiver				
		Test	Receiver		Controlle				
						1			

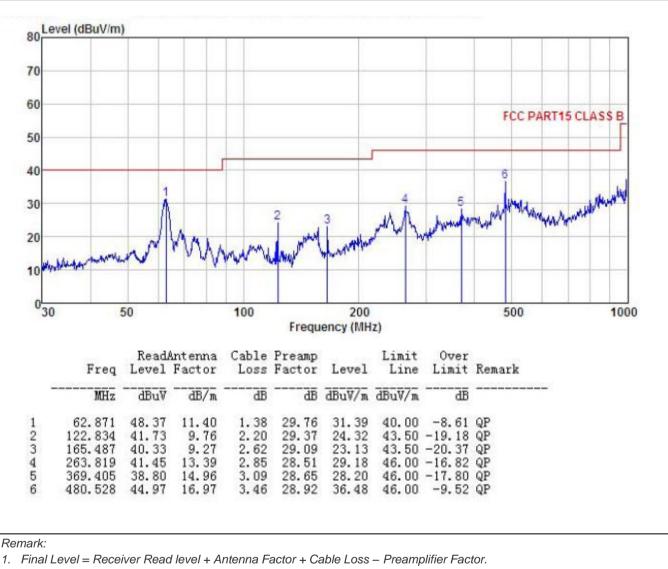


Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 2 meters away from the interference receiving.</li> </ol>
	<ol><li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li></ol>
	3. The antenna 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.
	4. 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.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



#### Measurement Data:

Below TOTIZ.			
Product Name:	4G Smart Phone	Product Model:	Elite T55
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



2. The emission levels of other frequencies are very lower than the limit and not show in test report.

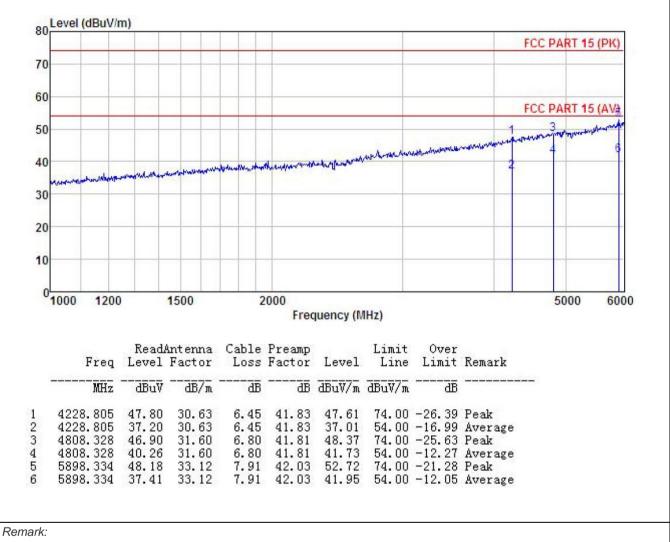


ame:	Mike			Pro	duct Mo	del:	Elite T55					
				Tes	Test mode:			PC mode				
iency:				Pol	arizatior	า:	Ho	orizonta	al			
ge:	AC 12	0/60Hz			Env	/ironme	nt:	Te	emp: 24	<b>4</b> ℃	Huni:	57%
vel (dBuV/n	n)		1									٦
_												
									FCC PA	RT15 (	CLASSE	3
						3		- 9		-	6	
	1			2		-AM	n dit.		Î.	i he	with my	
		LAA.			Margaret	mark the	Virmald	Hours	mund	A LAN ANY	4- X	1
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and a state of the	The first		W. I					_				
	50		100		200				500		10	000
	50		100	Frequ					500			,00
Freq			Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Rema	ark			
MHz	dBu∛	dB/m	dB	dB	dBu∛/m	dBuV/m	dB			-		
62.213	47.70 49.83	11.62 8.79	1.38 2.54 2.86	29.77 29.19 28.51	30.93 31.97 37.78	43.50 46.00	-9.07 -11.53 -8.22 -12.51	QP QP				
153.739 267.546 480.528	50.02 41.98	13.41 16.97	3.46	28.92	33.49	40.00	-12.01	16.4				
	ge: vel (dBuV/n	iency: 30 MH ge: AC 12 vel (dBuV/m)	iency: 30 MHz ~ 1 GH ge: AC 120/60Hz vel (dBuV/m) 50 Freq ReadAntenna Freq Level Factor	iency: 30 MHz ~ 1 GHz ge: AC 120/60Hz vel (dBuV/m) 50 100 ReadAntenna Cable Freq Level Factor Case	iency: 30 MHz ~ 1 GHz ge: AC 120/60Hz vel (dBuV/m) 50 100 Frequency Freq Level Factor Cable Preamp Loss Factor	Jency:     30 MHz ~ 1 GHz     Pol       ge:     AC 120/60Hz     Env       vel (dBuV/m)	Iency:     30 MHz ~ 1 GHz     Polarization       ge:     AC 120/60Hz     Environment       vel (dBuV/m)	sency:     30 MHz ~ 1 GHz     Polarization:       ge:     AC 120/60Hz     Environment:         vel (dBuV/m)         0     0         0     0         0     100         50     100         50     100         50     100         200         Freq     ReadAntenna       Cable     Preamp         Limit     Over	nency:     30 MHz ~ 1 GHz     Polarization:     Ho       ge:     AC 120/60Hz     Environment:     Te       vel (dBuV/m)     Image: Comparison of the second of	nency:       30 MHz ~ 1 GHz       Polarization:       Horizont:         ge:       AC 120/60Hz       Environment:       Temp: 24         vel (dBuV/m)       FCC PA         ge:       100       FCC PA         50       100       200       500         50       100       200       500         Freq Level Factor       Cable Preamp       Limit       Over         Freq Level Factor       Cable Preamp       Limit       Over	nency:     30 MHz ~ 1 GHz     Polarization:     Horizontal       ge:     AC 120/60Hz     Environment:     Temp: 24°C       vel (dBuV/m)     FCC PART15       vel (dBuV/m)     FCC PART15       50     100     200       50     100     200       Freq     ReadAntenna     Cable Preamp     Limit     Over       Freq     Level Factor     Loss Factor     Limit     Over	nency:     30 MHz ~ 1 GHz     Polarization:     Horizontal       ge:     AC 120/60Hz     Environment:     Temp: 24°C     Huni:       vel (dBuV/m)     FCC PART15 CLASS E     FCC PART15 CLASS E       d     d     d     d       50     100     200     500     100       Freq Level Factor     Cable Preamp     Limit     Over       KeadAntenna     Cable Preamp     Limit     Over



#### Above 1GHz:

Product Name:	4G Smart Phone	Product Model:	Elite T55
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.





roduct Name:	4G Smart Pho	Mike		rt Phone Product Model:			Elite T	Elite T55 PC mode		
est By:	Mike			ode:	PC mo					
est Frequency:	1 GHz ~ 6 G			ation:	Horizo	ntal				
est Voltage:	AC 120/60H	Z	Enviro	nment:	Temp:	<b>24</b> ℃	Huni: 57%			
			·		·					
80 Level (dBuV/m	)				FC	C PART	15 (PK)			
70										
60						_				
00					FC	C PART	15 ( <u>A</u> V)			
50				1	myslermantworker	kinghorm	- ANTONIA MAN			
40		and manufacture and the	nonstrantination	and a state of the	berheiden .	4				
30	ally fill day a substrated with and			-						
50										
20										
10										
0										
<b>1000 1200</b>	1500	2000 Free	quency (MHz)			5000	6000			
Freq		Cable Preamp Loss Factor	Limit Level Line		Remark					
MHz	dBuV dB/m	<del>d</del> B <del>d</del> B	dBuV/m dBuV/m	<u>a</u> B						
1 3447.326	47.91 28.87	5.69 41.40	45.41 74.00	-28.59	Peak					
3 4808.328	38.19 28.87 47.13 31.60		35.69 54.00 48.60 74.00							
4 4808.328 5 5662.163	39.6431.6048.4732.70		41.11 54.00 52.20 74.00							
	38.66 32.70		42.39 54.00							
emark:										
. Final Level = Rece			- Cable Loss – Pre er than the limit a			4				