

Report No: CCISE190606003

FCC REPORT

Applicant:	Collage Investments LLC.		
Address of Applicant:	6030 NW 99 Ave #414, DORAL, FL 33178, United States		
Equipment Under Test (I	EUT)		
Product Name:	MOBILE PHONE		
Model No.:	SNAP Ranger		
Trade mark:	S SMOOTH		
FCC ID:	GAO-SRANGER		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B		
Date of sample receipt:	19 Jun., 2019		
Date of Test:	20 Jun., to 08 Jul., 2019		
Date of report issued:	09 Jul., 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.

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.



2 Version

Version No.	Date	Description
00	09 Jul., 2019	Original

Tested by:

lang Test Engineer

Date:

Date:

09 Jul., 2019

09 Jul., 2019

Reviewed by:

han Wimer

Project Engineer



3 Contents

		Pa	age
1	С	OVER PAGE	1
2	v	ERSION	2
3	С	ONTENTS	3
4	т	EST SUMMARY	4
5	G	ENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	
	5.3	Test Mode	
	5.4	MEASUREMENT UNCERTAINTY	
	5.5	DESCRIPTION OF SUPPORT UNITS	
	5.6	Related Submittal(s) / Grant (s)	6
	5.7	DESCRIPTION OF CABLE USED	
	5.8	LABORATORY FACILITY	6
	5.9	LABORATORY LOCATION	6
	5.10	Test Instruments list	7
6	т	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	11
7	Т	EST SETUP PHOTO	. 17
8	Е	UT CONSTRUCTIONAL DETAILS	. 18



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 r N/A: The EUT not applicable of the test item.	•		



5 General Information

5.1 Client Information

Applicant:	Collage Investments LLC.		
Address:	6030 NW 99 Ave #414, DORAL, FL 33178, United States		
Manufacturer:	Collage Investments LLC.		
Address:	6030 NW 99 Ave #414, DORAL, FL 33178, United States		

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	SNAP Ranger
Power supply:	Rechargeable Li-ion Battery DC3.7V, 650mAh
AC adapter :	Input: AC100-240V, 50/60Hz 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			
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and			

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)	±1.60 dB (k=2)		
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)		
Radiated Emission (30MHz ~ 1000MHz)	±4.54 dB (k=2)		
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)		
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)		



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	PC OPTIPLEX745		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	Unshielded	0.8m	EUT	Adapter

5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing 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 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

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	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
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	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	

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	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
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	07	
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:		Li	mit (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	nm of the frequency	
Test setup:	Reference Pla	ne	
Technologi	AUX Equipment Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	\C power
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices ar LISN that provides a 500h termination. (Please refers photographs). Both sides of A.C. line ar interference. In order to fin positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the mean e also connected to m/50uH coupling in s to the block diagra e checked for maxim nd the maximum en ad all of the interface). The provide a asuring equipment. • the main power through a mpedance with 500hm am of the test setup and mum conducted nission, the relative • cables must be changed
Test environment:	Temp.: 22.5 °C Hur	nid.: 55%	Press.: 101kPa
Test Instruments:	Refer to section 5.9 for detai	ils	l
Test mode:	Refer to section 5.3 for detail		
Test results:	Pass		
Toor toouito.	1 435		



Measurement data:

Product name:	MOB	ILE PHON	E	Pr	oduct mod	del:	SNAP	Ranger
Test by:	ΥT			Те	st mode:		PC mo	ode
Test frequency:	150 k	Hz ~ 30 N	lHz	Ph	ase:		Line	
Test voltage:	AC 12	20 V/60 H:	Z	Er	vironment	t:	Temp:	22.5℃ Huni: 55%
80 Level (db 70 60 50 2 40 10 0 10	BuV)		hurthelper	where the first fi				PART15 B QP PART15 B AV
-10 .15 .2 Trace: 15	Freq I	.5 Read Level F	1 LISN	2 Frequency Cable Loss	(MHz) Level	5 Limit Line	10 Over Limit	20 30 Remark
<u></u>	MHz -				 dBu∛			
2 4 5 6 7 1 8 1 9 1 10 1	0.162 0.258 0.258 3.454 4.092 0.019 0.179 6.839 7.291 23.263	27.28 36.27 35.69 27.57 29.78 26.47 30.93 27.12 37.73 27.82 32.15 26.92	0.17 0.17 0.14 0.14 0.17 0.18 0.32 0.32 0.30 0.30 0.32 0.32 0.32	10.77 10.75 10.75 10.91 10.91 10.94 10.94 10.91 10.91 10.89 10.89 10.89	38.22 47.21 46.58 38.46 40.86 37.54 42.19 38.38 48.94 39.03 43.36 38.13	65.34 61.51 51.51 56.00 46.00 60.00 50.00 50.00 60.00 50.00 60.00	-18.13 -14.93 -13.05 -15.14 -8.46 -17.81 -11.62 -11.06 -10.97 -16.64	QP Average QP Average QP Average QP Average

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



Product name:	MO	BILE PHO	NE	Pro	oduct mod	el:	SNAP I	Ranger	
Test by:	YT			Те	st mode:		PC mo	de	
Test frequency:	150	kHz ~ 30	MHz	Ph	ase:		Neutral		
Test voltage:	AC	120 V/60 H	Hz	En	vironment		Temp:	22.5℃	Huni: 55%
80 Level ((dBuV)								
70									
co	-						FCC	PART15 B	P
60							FCC	PART15 B	A1/
50 b	2	~					ru	10 11	AV
40 M	. 1			1 59			8)	~19h 18	
	3 Month	Martine Ma		who had a who had	, About Mill		MINNE /	V WW	N
30	MWW	Photophyser 1	NY WHI WHAT	UL M	MM M	"Yale"		Wi I	1
20	VVV		where we	- mon	M. M		and the second		1
10								_	
0									
0	,						10	20	
-10.15 .2	2	.5	1	2 Frequency	(MHz)	5	10	20	30
0	2	.5	1	-	(MHz)	5	10	20	30
0 -10.15 .2	2			Frequency	(MHz)	-		20	30
0 -10.15 .2		Read	LISN	Frequency		Limit	Over		30
-10.15 .2		Read		Frequency	(MHz) Level	-	Over	20 Remark	30
-10.15 .2		Read	LISN	Frequency		Limit	Over		30
0 -10.15 .2	Freq MHz	Read Level dBuV	LISN Factor dB	Frequency Cable Loss dB	Level dBuV	Limit Line 	Over Limit dB	Remark	30
0 -10.15 .2 Trace: 17	Freq MHz 0.154	Read Level dBuV 33.11	LISN Factor dB 0.98	Frequency Cable Loss dB 10.78	Level 	Limit Line dBuV 65.78	Over Limit dB -20.91	Remark 	
0 -10.15 .2 Trace: 17	Freq MHz	Read Level dBuV	LISN Factor dB 0.98	Frequency Cable Loss dB	Level dBuV	Limit Line dBuV 65.78 55.56	Over Limit 	Remark QP Average	
0 -10.15 .2 Trace: 17 1 2 3 4	Freq MHz 0.154 0.158 0.258 0.258	Read Level dBuV 33.11 31.04 30.99 30.03	LISN Factor dB 0.98 0.95 0.95	Frequency Cable Loss dB 10.78 10.77 10.75 10.75	Level dBuV 44.87 42.79 42.69 41.73	Limit Line dBuV 65.78 55.56 61.51 51.51	Over Limit 	Remark QP Average QP Average	 e
-10.15 .2 Trace: 17	Freq MHz 0.154 0.258 0.258 0.258 1.680	Read Level dBuV 33.11 31.04 30.99 30.03 24.92	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98	Frequency Cable Loss dB 10.78 10.77 10.75 10.75 10.94	Level dBuV 44.87 42.79 42.69 41.73 36.84	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00	Over Limit dB -20.91 -12.77 -18.82 -9.78 -9.16	Remark QP Average Average Average	 e
-10.15 .2 Trace: 17	Freq MHz 0.154 0.158 0.258 0.258 1.680 1.810	Read Level dBuV 33.11 31.04 30.99 30.03 24.92 26.81	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 0.98	Frequency Cable Loss dB 10.78 10.77 10.75 10.75 10.94 10.95	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 56.00	Over Limit 	Remark QP Average QP Average Average QP	 e e
-10.15 .2 Trace: 17 1 2 3 4 5 6 7	Freq MHz 0.154 0.158 0.258 0.258 1.680 1.810 9.552	Read Level 33.11 31.04 30.99 30.03 24.92 26.81 24.37	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 0.98 1.02	Frequency Cable Loss dB 10.78 10.77 10.75 10.75 10.94 10.95 10.92	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74 36.31	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 56.00 50.00	Over Limit 	QP Average QP Average Average QP Average QP Average	 e e
1 2 3 4 5 6 7 8	Freq 0.154 0.158 0.258 0.258 1.680 1.810 9.552 9.809	Read Level 33.11 31.04 30.99 30.03 24.92 26.81 24.37 26.39	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 0.98 1.02 1.02	Frequency Cable Loss dB 10.78 10.75 10.75 10.94 10.95 10.92 10.93	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74 36.31 38.34	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 56.00 50.00 60.00	Over Limit 	Remark QP Average QP Average QP Average QP Average QP	 e e e
1 2 3 4 5 6 7 8 9	Freq 0.154 0.158 0.258 0.258 1.680 1.810 9.552 9.809 16.486	Read Level 33.11 31.04 30.09 30.03 24.92 26.81 24.37 26.39 29.75	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 0.98 1.02 1.02 0.83	Frequency Cable Loss dB 10.78 10.77 10.75 10.75 10.94 10.95 10.92 10.93 10.91	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74 36.31 38.34 41.49	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 56.00 50.00 50.00 50.00	Over Limit -20.91 -12.77 -18.82 -9.78 -9.78 -9.16 -17.26 -13.69 -21.66 -8.51	Remark QP Average QP Average QP Average QP Average QP Average	 e e e
1 2 3 4 5 6 7 8 9 10	Freq MHz 0.154 0.158 0.258 0.258 1.680 1.810 9.552 9.809 16.486 16.573	Read Level dBuV 33.11 31.04 30.99 30.03 24.92 26.81 24.37 26.39 29.75 35.15	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 1.02 1.02 0.83 0.83	Frequency Cable Loss dB 10.78 10.75 10.75 10.94 10.95 10.92 10.93 10.91 10.91	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74 38.34 41.49 46.89	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 50.00 60.00 50.00 60.00	Over Limit -20.91 -12.77 -18.82 -9.78 -9.16 -17.26 -13.69 -21.66 -8.51 -13.11	Remark QP Average QP Average Average QP Average QP Average QP	 e e e
0 -10.15 .2 Trace: 17 1 2 3 4 5 6 7 8 9	Freq 0.154 0.158 0.258 0.258 1.680 1.810 9.552 9.809 16.486	Read Level 33.11 31.04 30.09 30.03 24.92 26.81 24.37 26.39 29.75	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.98 0.98 1.02 1.02 0.83	Frequency Cable Loss dB 10.78 10.77 10.75 10.75 10.94 10.95 10.92 10.93 10.91	Level dBuV 44.87 42.79 42.69 41.73 36.84 38.74 36.31 38.34 41.49	Limit Line dBuV 65.78 55.56 61.51 51.51 46.00 50.00 60.00 50.00 60.00	Over Limit -20.91 -12.77 -18.82 -9.78 -9.16 -17.26 -13.69 -21.66 -8.51 -13.11 -15.57	Remark QP Average QP Average Average QP Average QP Average QP	 e e e

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

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



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	ection 15.1	09			
Test Method:	ANSI C63.4:2014	1				
Test Frequency Range:	30MHz to 6000M	lHz				
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)	
Receiver setup:	Frequency	Detect	or	RBW	VBW	Remark
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
l insite	Frequenc	RMS		1MHz nit (dBuV/m	3MHz @3m)	Average Value Remark
Limit:	30MHz-88N			40.0	@JIII)	Quasi-peak Value
	88MHz-216			40.0		Quasi-peak Value
	216MHz-960			46.0		Quasi-peak Value
	960MHz-10			54.0		Quasi-peak Value
				54.0		Average Value
	Above 1G	Hz		74.0		Peak Value
Test setup:	Below 1GHz				Antenna Tower Search Antenna Test eiver	
	ROCM	EUT table)		erence Plane	Antenna Towe	



Test Procedure:	 the grou 360 deg 2. The EU antenna tower. 3. The ant ground horizond measur 4. For eac and the and the find the 5. The tes Specifie 6. If the en 	rees to deter T was set 3 n , which was n enna height is to determine al and vertica ement. h suspected e n the antenna rotatable tab maximum rea t-receiver sys od Bandwidth	ter semi-ane mine the pos neters away f mounted on t s varied from the maximum al polarization emission, the a was tuned t le was turned ading. tem was set with Maximu of the EUT in	choic cambe ition of the hi from the inter he top of a va- one meter to value of the s of the anter EUT was ar o heights from to Peak Deter m Hold Mode peak mode	r. The table ighest radia ference-re ariable-heig o four mete e field stren enna are se ranged to if m 1 meter f ees to 360 ect Function e. was 10dB I	e was rotated ation. ceiving ght antenna rs above the gth. Both t to make the ts worst case to 4 meters degrees to n and ower than the
	10dB m		e re-tested o	ne by one us	sing peak, o	did not have quasi-peak or sheet.
Test environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa
Test Instruments:	Refer to se	ection 5.9 for	details			
Test mode:	Refer to se	ection 5.3 for	details			
Test results:	Passed					
Remark:	All of the on no recorde		ue above 6G	Hz ware the	niose floo	r, which were



Measurement Data:

Product Name:	МС	BILE PH	ONE		P	roduct M	odel:	SNA	P Ranger	
Test By:	ΥT				т	Test mode: PC			node	
Test Frequency:	30	30 MHz ~ 1 GHz			Polarization:			Verti	cal	
Test Voltage:	AC	120/60H	z		E	invironme	ent:	Tem	p: 24℃	Huni: 57%
80	IBuV/m)	Read	100	Cable		z)	Limit	500 Over	RT15 CLAS	
<u></u>	MHz			<u>a</u> B		122002300	dBuV/m	<u>a</u> B		
1	39.994 115.321 161.474	35.61 38.90 43.81 41.28	12.36 11.22 9.34 10.35	1.21 2.11 2.60 2.81 3.90	29.90	19.28	40.00 43.50 43.50 43.50	-20.72	QP QP QP	



Product Name:	МС	BILE PHO	ONE		Р	roduct M	odel:	SNA	P Ranger												
Test By:	YT Test mode:			Test mode: PC mode				YT			YT Test mode: PC				T Test mode: PC mode				Test mode: PC mode Polarization: Horizontal		
Test Frequency:	30	MHz ~ 1 GHz			Р	olarizatio	on:														
Test Voltage:	AC	120/60Hz	<u>.</u>		E	nvironme	ent:	Tem	p: 24℃	Huni: 57%											
80 Level (70 60 50 40 30 20 10 M	dBuV/m)		100	Frequ	200 ency (MHz)	l imit	5	6 6	5											
	Freq	ReadA Level	ntenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark												
	MHz	dBu∛	dB/m	ā	āē	dBu∛/m	dBuV/m	<u>d</u> B													
1	118.186 217.544 239.147	36.33 47.71 43.91 38.57	11.04 11.39 12.26 13.65 17.52	2.14 2.85 2.82 2.95 3.46	29.40 28.72 28.60 28.45 28.92	20.11 33.23 30.39 26.72 35.21 36.04	46.00 46.00 46.00	-12.77 -15.61 -19.28 -10.79	QP QP QP QP												



Above 1GHz:

	ne: M	OBILE PH	IONE		1	Product N	lodel:	SNA	P Ranger	
est By:	Y	YTTest mode:PC mode1 GHz ~ 6 GHzPolarization:Vertical								
est Frequer	n cy: 1							1 GHz ~ 6 GHz Polarization: Vertical		ical
est Voltage	: A	C 120/60H	łz		1	Environm	ent:	Tem	p: 24℃	Huni: 579
80 Le 70 60 50 40 30 20	vel (dBuV/m)	here and h		dveserdet en en	muchum	1 44-04-04-04-04-04-04-04-04-04-04-04-04-0			PART 15 (P	
10										
10 0 10	00 1200	1500		2000 Erec	wency (MH	7)			5000	6000
		ReadA	antenna Factor	Free			Limit Line	Over Limit		6000
		ReadA	intenna Factor	Free	Preamp Factor		Line	Limit		6000



