

Global United Technology Services Co., Ltd.

Report No: GTSE11110088503

TEST REPORT

Applicant: SHENZHEN KENXINDA TECHNOLOGY CO.,LTD

Address of Applicant: 18TH FLOOR, FUCHUN ORIENT BUILDING, SHENNAN

AV 7006, SHENZHEN, CHINA

Equipment Under Test (EUT)

Product Name: GSM MOBILE PHONE

Model No.: S-350

Trade mark: SEFTON

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2010

Date of sample receipt: Nov. 1, 2011

Date of Test: Nov. 1-14, 2011

Date of report issued: Nov. 16, 2011

Test Result: PASS *

Authorized Signature:



Stephen Guo Laboratory Manage

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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



Project No.: GTSE111100885RF

Version 2

Version No.	Date	Description
00	Nov. 16, 2011	Original

Prepared By:	Collan. He	Date:	Nov. 16, 2011	
	Project Engineer			
Check By:	Homs. Hu	Date:	Nov. 16, 2011	
	Reviewer			_



Contents

		Page
CO	VER PAGE	1
VEF	RSION	2
COI	NTENTS	3
TES	ST SUMMARY	4
GEN	NERAL INFORMATION	5
5.1	CLIENT INFORMATION	5
5.2	GENERAL DESCRIPTION OF E.U.T.	5
5.3		
•	DEVIATION FROM STANDARDS.	6
TES	ST INSTRUMENTS LIST	7
TES	ST RESULTS AND MEASUREMENT DATA	8
7.1	CONDUCTED EMISSIONS	8
7.2		
TES	ST SETUP PHOTO	17
EUT	CONSTRUCTIONAL DETAILS	18
	VEF COI TES GEI 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 TES 7.1 7.2	5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE AND VOLTAGE 5.4 TEST FACILITY 5.5 TEST LOCATION 5.6 DESCRIPTION OF SUPPORT UNITS 5.7 DEVIATION FROM STANDARDS 5.8 ABNORMALITIES FROM STANDARD CONDITIONS 5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER TEST INSTRUMENTS LIST TEST RESULTS AND MEASUREMENT DATA 7.1 CONDUCTED EMISSIONS

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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	PASS		
Readiated Emissions	Part15.109	PASS		

PASS: The EUT complies with the essential requirements in the standard.

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN KENXINDA TECHNOLOGY CO.,LTD
Address of Applicant:	18TH FLOOR,FUCHUN ORIENT BUILDING,SHENNAN
	AV 7006 ,SHENZHEN, CHINA
Manufacturer	SHENZHEN KENXINDA TECHNOLOGY CO.,LTD
	BAO'AN BRANCH
Address of Manufacturer	1-6 FLOOR,NO.105 WORK SHOP&1-5 FLOOR,NO.104
	WORKSHOP,XINWEIHUANING ROAD,DALANG COMMUNITY,
	DALANGSTREET,BAO'AN DISTRICT,SHENZHEN, P.R.CHINA

5.2 General Description of E.U.T.

Product Name:	GSM MOBILE PHONE
Model No.:	S-350
Trade mark:	SEFTON
AC adapter:	Model No:HWT-2.5W-5050G Input: AC 100-240V 50/60Hz Output: DC 5V 500mA
Power supply:	Li-ion Battery Voltage: DC 3.7V 900mAh

5.3 Test mode and voltage

Test mode:	
PC mode	Keep the EUT in exchange data with PC

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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Page 5 of 18



5.4 Test Facility

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

● FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Description of Support Units

Manufacturer	Description	Model Serial Number		FCC ID/DoC
HP	Printer	CB495A	05257893	DoC
DELL	PC	OPTIPLEX745	GTS312	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None

5.9 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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Page 6 of 18



6 Test Instruments list

Cond	Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012		
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012		
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Radia	Radiated Emission							
Item	Test Equipment	Manufacturer	Manufacturer Model No. Inven		Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012		
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
6	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012		
7	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012		
8	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012		
9	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012		
10	Amplifier(100kHz- 3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012		

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Page 7 of 18



7 Test results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107					
Test Method:	ANSI C63.4:2003					
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			
	5-30	60	50			
	Decreases with the logarithm	of the frequency.				
	line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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: 2003 on conducted measurement.					
Test setup:	Refere	nce Plane				
	AUX Equipment E.U Test table/Insulation pla Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m		ter — AC power			
Test environment:	Temp.: 25 °C Humi	d.: 52% Pre	ess.: 1 012mbar			
Measurement Record:		 Un	certainty: ± 3.45dB			
ivieasurement Record:						
Test Instruments:	Refer to section 6 for details		·			
	Refer to section 6 for details Refer to section 5.3 for details		, 			

Measurement Data

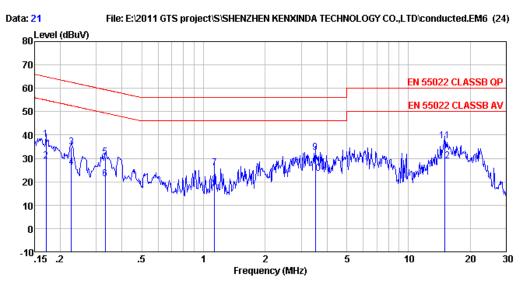
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An initial pre-scan was performed on the live and neutral lines with peak detector.

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

Line:



Condition : EN 55022 CLASSB QP LISN(2011) LINE

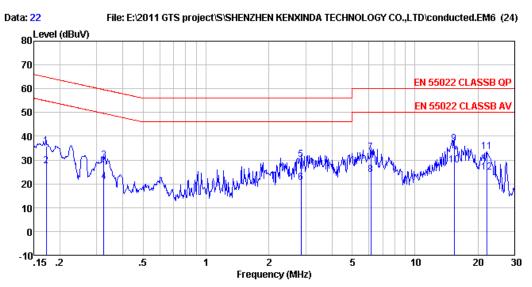
Job No : 885RF
Test mode : PC mode
Test engineer: Collin

	Freq	Read	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBu₹	dBuV	dB	
1 2 3 4 5 6 7 8	0.170 0.170 0.227 0.227 0.332 0.332 1.135	37. 26 28. 22 34. 19 25. 36 29. 78 20. 49 25. 39 18. 07	0.67 0.64 0.64 0.60 0.60 0.46	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	38. 03 28. 99 34. 93 26. 10 30. 48 21. 19 25. 95 18. 63	54. 94 62. 57 52. 57 59. 40 49. 40 56. 00	-27. 64 -26. 47 -28. 92 -28. 21 -30. 05	Average QP Average QP Average
9	3.509	32.03	0.34	0.10	32.47		-23.53	
10 11 12	3.509 14.986 14.986	23.16 37.12 28.60	0.34 0.18 0.18	0.10 0.20 0.20	23.60 37.50 28.98	60.00	-22.50	Average QP Average

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Neutral:



Condition : EN 55022 CLASSB QP LISN(2011) NEUTRAL

Job No : 885RF
Test mode : PC mode
Test engineer: Collin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	<u>dB</u>	dB	dBuV	dBu√	dB	
1 2	0.172 0.172	35. 22 26. 84	0.67 0.67	0.10	35.99 27.61	54.86		Äverage
3 4 5	0. 325 0. 325 2. 854	29. 03 20. 18 29. 59	0.60 0.60 0.36	0.10 0.10 0.10	29.73 20.88 30.05	49.57	-29.84 -28.69 -25.95	Average
6 7	2. 854 6. 153 6. 153	20.18 32.68 23.56	0.36 0.28 0.28	0.10 0.12 0.12	20.64 33.08 23.96	60.00	-26.92	
8 9 10	15. 388 15. 388	23.56 36.46 27.55	0.28 0.17 0.17	0.12 0.20 0.20	36.83 27.92	60.00	-23.17	Average QP Average
11 12	22. 180 22. 180	33. 29 24. 56	0.13 0.13	0. 21 0. 21	33.63 24.90	60.00	-26.37	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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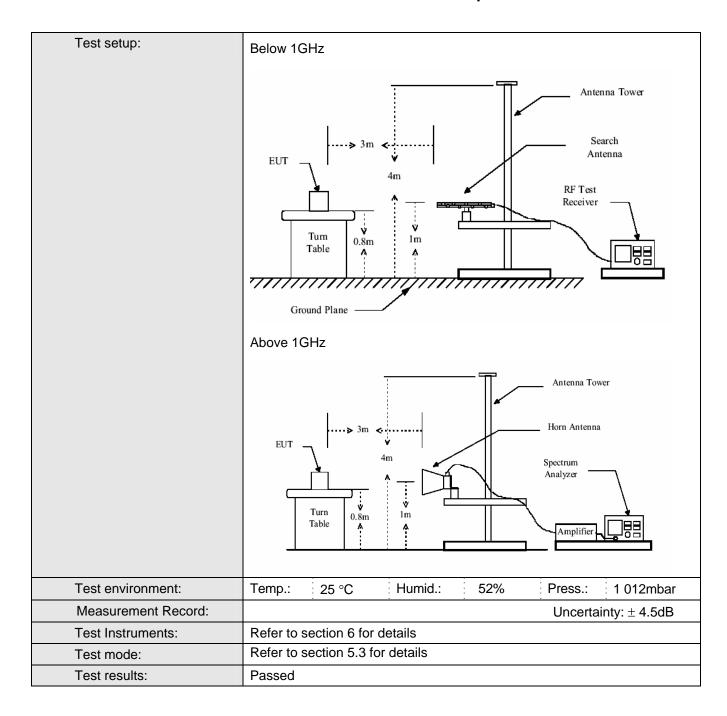


7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
·	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above 1GHz	Average	1MHz	10Hz	Average Value			
Limit:								
	Frequency		Limit (dBuV/m @3m)		Remark			
	30MHz-8	8MHz	40.0		Quasi-peak Value			
	88MHz-216MHz		43.5		Quasi-peak Value			
	216MHz-960MHz		46.0		Quasi-peak Value			
	960MHz-	1GHz	54.0		Quasi-peak Value			
	Above 1	GHz	54.0		Average Value			
Test Procedure:	 a. 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. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. 							

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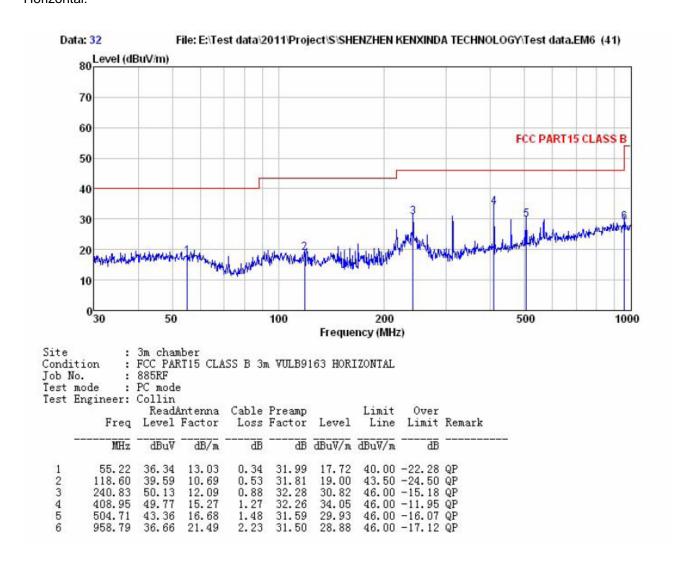
Page 12 of 18



Measurement Data

Below 1 G

Horizontal:

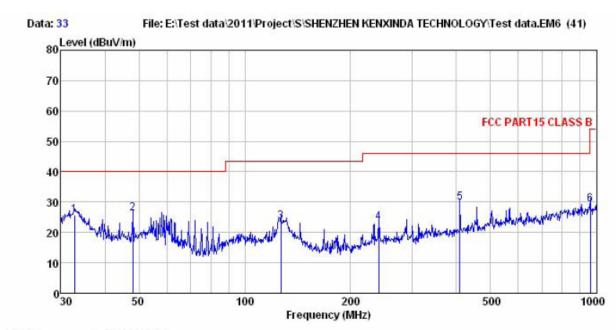


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Page 13 of 18



Vertical:



Site Condition : 3m chamber : FCC PART15 CLASS B 3m VULB9163 VERTICAL

Job No. : 885RF Test mode Test Engin : PC mode

lest	ReadAntenna			Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	—dB/m	dB	dB	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	32.75	45.50	12.31	0.22	32.23	25.80	40.00	-14.20	QP
2	47.99	44.65	13.36	0.31	32.05	26.27	40.00	-13.73	QP
3	126.77	45.45	9.41	0.55	31.84	23.57	43.50	-19.93	QP
4	239.99	42.72	12.09	0.87	32.28	23.40	46.00	-22.60	QP
2 3 4 5	408.95	45.46	15.27	1.27	32.26	29.74	46.00	-16.26	QP
6	962.16	37.06	21.49	2.23	31.50	29.28	54.00	-24.72	QP

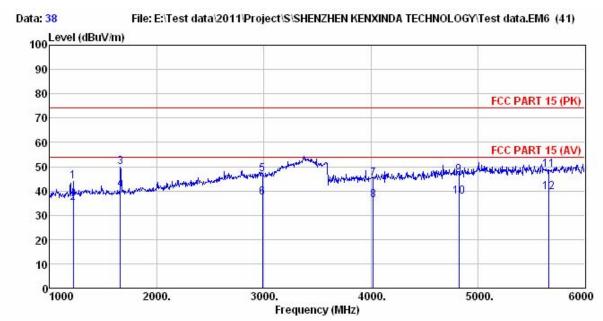
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Page 14 of 18



Project No.: GTSE111100885RF

Above 1 G Horizontal:



Site Condition : 3m chamber : FCC_PART 15 (PK) 3m BBHA9120(>1GHZ) HORIZONTAL

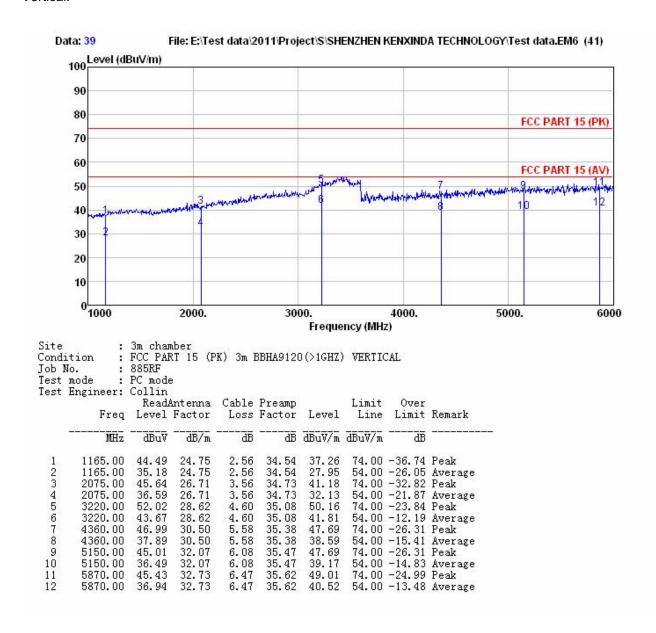
: 885RF Job No. Test mode : PC mode Test Engineer: Collin

	ReadA		Antenna Cable		Preamp		Limit	Over	
	Freq		Factor		Factor	Level	Line	Limit	Remark
	MHz	dBu∇	dB/m		<u>dB</u>	dBu√/m	dBuV/m	<u>db</u>	
1	1220.00	50.44	25.26	2.63	34.56	43.77	74.00	-30.23	Peak
2	1220.00	41.88	25.26	2.63	34.56	35.21	54.00	-18.79	Average
2	1660.00	56.24	24.90	3.18	34.65	49.67	74.00	-24.33	Peak
4	1660.00	47.19	24.90	3.18	34.65	40.62	54.00	-13.38	Average
4 5 6	2985.00	48.88	28.46	4.36	35.00	46.70	74.00	-27.30	Peak
6	2985.00	39.56	28.46	4.36	35.00	37.38	54.00	-16.62	Average
7	4020.00	45.25	29.89	5.32	35.30	45.16	74.00	-28.84	Peak
8 9	4020.00	36.28	29.89	5.32	35.30	36.19	54.00	-17.81	Average
9	4820.00	44.73	31.54	5.87	35.47	46.67	74.00	-27.33	Peak
10	4820.00	35.67	31.54	5.87	35.47	37.61	54.00	-16.39	Average
11	5660.00	45.53	32.16	6.37	35.50	48.56	74.00	-25.44	Peak
12	5660.00	36.49	32.16	6.37	35.50	39.52	54.00	-14.48	Average

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Vertical:



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

Page 16 of 18

Project No.: GTSE111100885RF

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