FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-210

TEST REPORT

For

Zonar Connect

Model: 20081

Trade Name: ZONAR

Issued to

For FCC: Zonar Systems Inc 18200 Cascade Ave South Suite 200 Seattle Washington United States

For IC ZONAR SYSTEMS 18200 Cascade Ave South Suite 200 SEATTLE WA USA

Issued by

Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) http://www.ccsrf.com service@ccsrf.com Issued Date: October 28, 2016



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Revision History

Rev.	lssue Date	Revisions	Effect Page	Revised By
00	October 28, 2016	Initial Issue	ALL	Doris Chu

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1. TEST RESULT CERTIFICATION

Applicant:	For FCC Zonar Systems Inc 18200 Cascade Ave South Suite 200 Seattle Washington United States For IC ZONAR SYSTEMS 18200 Cascade Ave South Suite 200 SEATTLE WA USA			
Manufacturer:	First International Computer 8F, No.300, Yang Guang St., NeiHu, Taipei, Taiwan 114			
Equipment Under Test:	Zonar Connect			
Trade Name:	ZONAR			
Model:	20081			
Date of Test:	July 27 ~ October 22, 2016			

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 15 Subpart C INDUSTRY CANADA RSS-210	No non-compliance noted				

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209 and Industry Canada RSS-210.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Sam Chuang

Sam Chuang Manager Compliance Certification Services Inc.

Tested by:

Tom:s. Li

Dennis Li Engineer Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Zonar Connect
Trade Name	ZONAR
Model Number	20081
Model Difference	N/A
Received Date	April 15, 2016
Power Supply	VDC from Power Adapter DARFON / B112-51(SOY-0500250US) I/P: 100-240Vac, 0.4A, 50-60Hz O/P: 5Vdc, 2.5A
Frequency Range	129 kHz
Number of Channels	1 Channel

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- This submittal(s) (test report) is intended for <u>FCC ID: SEJ-CONNECT & ISED No:</u> <u>5266A-CONNECT</u> filing to comply with Section 15.209 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 2, 15.207, 15.209, RSS-210 and RSS-Gen.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are
	permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.3 DESCRIPTION OF TEST MODES

The EUT (model: 20081) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

3.3.1 The worst mode of measurement

AC Conducted Emission				
Test Condition AC Power line conducted emission for line and neutral				
Voltage/Hz	120V/60Hz			
Test Mode	Mode 1: Adapter Mode Mode 2: USB Charge Mode(Link NB)			
Worst Mode Mode 1 Mode 2 Mode 3 Mode 4				

Remark: The worst mode was record in this test report.

Radiated Emission Measurement						
Test Condition	Test Condition Band edge, Emission for Unwanted and Fundamental					
Voltage/Hz 120V/60Hz						
Test Mode	Mode 1: Adapter Mode Mode 2: USB Charge Mode(Link NB) Mode 3: Docking Mode					
Worst Mode	🛛 Mode 1 🗌 Mode 2 🗌 Mode 3 🗌 Mode 4					
Position	 Placed in fixed position. Placed in fixed position at X-Plane (E2-Plane) Placed in fixed position at Y-Plane (E1-Plane) Placed in fixed position at Z-Plane (H-Plane) 					

Remark:

1. The worst mode was record in this test report.

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once two years.

Conducted Emissions Test Site							
Name of Equipment Manufacturer Model Serial Number Calibration Date Calibration Du							
Spectrum Analyzer	R&S	FSV 40	101073	2015/10/04	2016/10/03		

Wugu 966 Chamber A						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	US42510252	2015/12/8	2016/12/7	
Loop Ant	COM-POWER	AL-130	121051	2016/2/25	2017/2/24	
Bilog Antenna	Sunol Sciences	JB3	A030105	2016/8/5	2017/8/4	
Pre-Amplifier	EMEC	EM330	60609	2016/6/8	2017/6/7	
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2016/9/2	2017/9/1	
Pre-Amplifier	MITEQ	AMF-6F-2604 00-40-8P	985646	2016/1/14	2017/1/13	
Horn Antenna	EMCO	3116	26370	2016/1/15	2017/1/14	
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R	
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R	
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R	
Software	EZ-EMC (CCS-3A1RE)					

Conducted Emission Room # B							
Name of Equipment Manufacturer Model Serial Number Calibration Date Calibration							
LISN	SCHWARZBECK	NSLK 8127	8127-541	2015/11/23	2016/11/22		
Receiver	R&S	ESCI	101073	2015/9/9	2016/9/8		
Software	CCS-3A1-CE						

Remark:

1. Each piece of equipment is scheduled for calibration once a year and Precision Dipole is scheduled for calibration once three years.

2. N.C.R. = No Calibration Request.

4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.2159
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
 Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
 Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, horn and/or Loop. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method	

6. SETUP OF EQUIPMENT UNDER TEST 6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1	Zonar Connect Dock	ZONAR	20082	N/A	N/A	N/A	N/A
2	USB Dongle	Transcend	32 GB	N/A	N/A	N/A	N/A
3	Ear phone	Logitech	H150	N/A	N/A	N/A	N/A
4	SD Card	Kingston	4GB	N/A	N/A	N/A	N/A

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7. FCC PART 15.209 & RSS-210 REQUIREMENTS 7.1 OCCUPIED BANDWIDTH(99%) AND 20 DB BANDWIDTH <u>TEST CONFIGURATION</u>



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=10KHz, VBW=30KHz, Span=100KHz, Sweep = auto.
- 4. Record the max. reading.

TEST RESULTS

No non-compliance noted

Test Condition	Frequency(kHz)	Occupied Bandwidth 99% (kHz)	20 dB Bandwidth (kHz)	
RFID	129	21.418	24.890	



Test Plot

Spectrum										
Ref Level	-10.00 dB	m	•	RBW	10 kHz	_				
Att	0 c	IB SWT	188.9 µs 🖷	VBW	30 kHz	Mode Au	to FFT			
OIPK VIEW						D1	[1]			-0.38 dB
-20 dBm						Oc M1	с Вw [1]		21.418	24.890 kHz 234443 kHz -67.27 dBm
-30 dBm								1	1	16.450 kHz
-40 dBm										
-50 dBm)1 -47.420	dBm			_					
-60 dBm				т <u>1</u>			2			
-70 dBm	D2 -67	/.420 dBm-		Y						
-80 dBm										
-90 dBm			1							
-100 dBm				_			 F2			
CF 128.9 kH	lz		FI		691 r)ts			 Span	100.0 kHz
)[Meas	uring			28.07.2016

Date:28.JUL.2016 18:08:20

7.2 RADIATED EMISSIONS

LIMIT

All spurious emissions shall comply with the limits of §15.209(a) and RSS-Gen Table 2 & Table 4.

<u>RSS-Gen Table 2 & Table 4: General Field Strength Limits for Transmitters and</u> <u>Receivers at Frequencies Above 30 MHz</u>^(Note)

Frequency	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)					
(MHZ)	Transmitters	Receivers				
30-88	100 (3 nW)	100 (3 nW)				
88-216	150 (6.8 nW)	150 (6.8 nW)				
216-960	200 (12 nW)	200 (12 nW)				
Above 960	500 (75 nW)	500 (75 nW)				

Note: *Measurements for compliance with limits in the above table may be performed at distances other than 3 metres, in accordance with Section 6.5.

Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

<u>RSS-Gen Table 5: General Field Strength Limits for Transmitters at Frequencies</u> <u>Below 30 MHz (Transmit)</u>

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/377F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/377F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average detector.

Test Configuration

$9kHz \sim 30MHz$







TEST PROCEDURE

For 9kHz ~ 30MHz

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both

For 30MHz ~ 1GHz

- The EUT is placed on a turntable, which is 0.8m above ground plane. 1.
- The turntable shall be rotated for 360 degrees to determine the position of maximum 2. emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of 5. receiving

antenna both horizontal and vertical.

- Set the spectrum analyzer in the following setting as: 6. RBW=100kHz / VBW=300kHz / Sweep=AUTO
- Repeat above procedures until the measurements for all frequencies are complete. 7.

	+ 	-CC ID	: SEJ-(CONNEC		ISE	D No. : 526	6A-C0	ONNECT		Report N	Io.: T	160415W05-RP2
Operation Mode: TX mo		TX mode	e		Test D	ate:			Octobe	r 19	, 2016		
Tempe	rature:		2	27°C			Tested	l by:			Dennis Li		
Humid	ity: 0 dBuV/m		5	53 % RF	4		Polari	ty:					
											Limit Marg	:1: jin:	
				1									
80													
								~	~~~	~~		~	~
10.0 0.	.090 0.10)	0.12	0.13	0.14	0.1	15 0.1	7	0.18	0.19		0.2	2 MHz
No.	Freque	ncy	Re	ading	Cor	rect	Result		Limit		Margin	1	Remark
	(MHz	:)	(d	BuV)	Factor	(dB/m)	(dBuV/n	n)	(dBuV/m	ו)	(dB)		
1	0.129	4	7	7.87	14	.00	91.87		105.37	,	-13.50		peak

CELERE Compliance Certification Services Inc.

9kHz ~ 490kHz

erati	on Mode:	TX mode	Te	Test Date: Octo		ctober 19, 2	ober 19, 2016		
nper	ature:	27°C	Те	ested b	y:	D	ennis Li		
midi	ty:	53 % RH	Р	olarity:					
110.0	dBuV/m							_	
			 				Limit1: Margin: —	-	
_									
60									
_	1 X 2								
								6	
			×			4 X	5 X	×	
10.0									

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
0.0379	62.10	-16.44	45.66	116.03	-70.37	peak
0.0667	60.80	-16.91	43.89	111.12	-67.23	peak
0.2394	45.40	-17.29	28.11	100.02	-71.91	peak
0.3856	42.59	-17.33	25.26	95.88	-70.62	peak
0.4438	40.27	-17.34	22.93	94.66	-71.73	peak
0.4900	46.28	-17.05	29.23	73.80	-44.57	peak

490kHz ~ 30MHz

Operation Mode:	TX mode	Test Date:	October 19, 2016
Temperature:	27°C	Tested by:	Dennis Li
Humidity:	53 % RH	Polarity:	



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
0.5195	37.02	-17.35	19.67	73.29	-53.62	peak
6.2740	18.02	-13.53	4.49	69.54	-65.05	peak
13.4154	12.26	-8.53	3.73	69.54	-65.81	peak
19.2289	12.57	-4.84	7.73	69.54	-61.81	peak
25.1013	12.24	-1.44	10.80	69.54	-58.74	peak
30.0000	16.62	0.30	16.92	69.54	-52.62	peak

30MHz ~ 1GHz

Operation Mode:	TX mode	Test Date:	October 22, 2016
Temperature:	27°C	Tested by:	Dennis Li
Humidity:	53 % RH		

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)	Detector Mode (PK/QP/AVG)
40.6700	38.22	-15.72	22.50	40.00	-17.50	QP
301.6000	40.04	-14.20	25.84	46.00	-20.16	peak
551.8500	46.94	-8.46	38.48	46.00	-7.52	peak
704.1500	32.36	-5.97	26.39	46.00	-19.61	peak
854.5000	39.93	-3.73	36.20	46.00	-9.80	peak
955.3800	29.38	-2.31	27.07	46.00	-18.93	peak
40.6700	38.22	-15.72	22.50	40.00	-17.50	QP
301.6000	40.65	-14.20	26.45	46.00	-19.55	peak
551.8500	41.33	-8.46	32.87	46.00	-13.13	peak
704.1500	32.36	-5.97	26.39	46.00	-19.61	peak
854.5000	39.93	-3.73	36.20	46.00	-9.80	peak
955.3800	28.77	-2.31	26.46	46.00	-19.54	peak

Vertical



Horizontal



7.3 POWERLINE CONDUCTED EMISSIONS

<u>LIMIT</u>

According to §15.207(a) & RSS-Gen §8.8, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Limits (dBµV)				
	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode:	Normal Link	Test Date:	October 20, 2016
Temperature:	26°C	Tested by:	Dennis Li
Humidity:	60% RH		

Frequenc y (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1700	21.90	10.83	9.71	31.61	20.54	64.96	54.96	-33.35	-34.42	L1
0.2700	17.86	3.71	9.70	27.56	13.41	61.12	51.12	-33.56	-37.71	L1
0.7100	25.03	16.07	9.71	34.74	25.78	56.00	46.00	-21.26	-20.22	L1
3.5620	13.69	3.16	9.74	23.43	12.90	56.00	46.00	-32.57	-33.10	L1
11.5780	20.25	12.57	9.80	30.05	22.37	60.00	50.00	-29.95	-27.63	L1
21.2060	17.50	9.00	9.87	27.37	18.87	60.00	50.00	-32.63	-31.13	L1
0.7140	28.98	16.87	9.76	38.74	26.63	56.00	46.00	-17.26	-19.37	L2
1.4299	19.08	9.02	9.77	28.85	18.79	56.00	46.00	-27.15	-27.21	L2
2.3660	19.40	9.23	9.79	29.19	19.02	56.00	46.00	-26.81	-26.98	L2
5.4899	17.83	7.38	9.88	27.71	17.26	60.00	50.00	-32.29	-32.74	L2
10.9060	20.41	9.23	10.04	30.45	19.27	60.00	50.00	-29.55	-30.73	L2
20.7580	18.57	8.40	10.28	28.85	18.68	60.00	50.00	-31.15	-31.32	L2

Remark:

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)
- 5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

