

TEST REPORT

Applicant: FCC ID: Panoramic Power Ltd.
IC: Panoramic Power Ltd.

Address of Applicant: FCC ID: 15 Atir Yeda St., Kfar Saba, 4464312, Israel
IC: Atir Yeda St 15 Kfar Saba 4464312 Israel

Manufacturer: FCC ID: Panoramic Power Ltd.
IC: Panoramic Power Ltd.

Address of Manufacturer: FCC ID: 15 Atir Yeda St., Kfar Saba, 4464312, Israel
IC: Atir Yeda St 15 Kfar Saba 4464312 Israel

Factory: Global Brands Manufacture Ltd.

Address of Factory: Yue Yuen Industrial Estate, Huang Jiang ZhenDongguan City,
Guangdong Province, 523758,China

Equipment Under Test (EUT)

Product Name: 63A Wireless Current Sensor with Power Measurement

Model No.: Ability PAN-10P-US

HVIN: I1

FCC ID: Z9M-PAN10P

IC: 23144-PAN10P

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249
RSS-Gen Issue 5 March 2019
RSS-210 Issue 10 December 2019

Date of sample receipt: October 16, 2020

Date of Test: October 16-29, 2020

Date of report issued: October 29, 2020

Test Result : PASS *

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

Authorized Signature:



Robinson Luo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



Testing Cert #381383

2 Version

Version No.	Date	Description
00	October 29, 2020	Original

Prepared By:

Tiger Chen

Date:

October 29, 2020

Project Engineer

Check By:

Robinson Lu

Date:

October 29, 2020

Reviewer

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
4.1 MEASUREMENT UNCERTAINTY	4
5 GENERAL INFORMATION.....	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	6
5.3 DESCRIPTION OF SUPPORT UNITS	6
5.4 DEVIATION FROM STANDARDS.....	6
5.5 ABNORMALITIES FROM STANDARD CONDITIONS	6
5.6 TEST FACILITY.....	6
5.7 TEST LOCATION	6
5.8 ADDITIONAL INSTRUCTIONS.....	6
6 TEST INSTRUMENTS LIST	7
7 TEST RESULTS AND MEASUREMENT DATA.....	9
7.1 CONDUCTED EMISSIONS	9
7.2 RADIATED EMISSION METHOD.....	12
7.2.1 Field Strength of The Fundamental Signal and spurious emissions	14
7.2.2 Spurious emissions.....	15
7.3 20dB OCCUPY BANDWIDTH AND 99% OCCUPIED BANDWIDTH	19
8 TEST SETUP PHOTO	20
9 EUT CONSTRUCTIONAL DETAILS	20

4 Test Summary

Test Item	Section	Result
AC Power Line Conducted Emission	15.207 RSS-Gen Section 8.8	Pass
Field strength of the fundamental signal	15.249 (a) RSS-210 B10(a)	Pass
Spurious emissions	15.249 (a) (d)/15.209 RSS-Gen Clause 8.9&8.10	Pass
Band edge	15.249 (d)/15.205 RSS-210 B10(b)	Pass
20dB Occupied Bandwidth and 99% Occupied Bandwidth	15.215 (c) RSS-Gen 6.7	Pass

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

Remark: Test according to ANSI C63.10: 2013 and ANSI C63.4: 2014.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	63A Wireless Current Sensor with Power Measurement Ability
Model No.:	PAN-10P-US
Serial No.:	301101006
Hardware Version:	I1
Software Version:	1.27
Test sample(s) ID:	GTS202010000062-1
Sample(s) Status:	Engineer sample
Operation Frequency:	915MHz
Modulation type:	GFSK
Antenna Type:	Integral Antenna
Antenna gain:	-12dBi(declare by applicant)

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.		
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>			
Per-test mode.			
We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	94.41	95.44	93.17

5.3 Description of Support Units

N/A

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC —Registration No.: 381383 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 381383. ● IC —Registration No.: 9079A 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 ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0.
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5.7 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960</p>

5.8 Additional Instructions

EUT Software Settings:	
Mode	Special test firmware was pre built in by manufacturer, power set default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	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	July. 02 2020	July. 01 2025
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	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

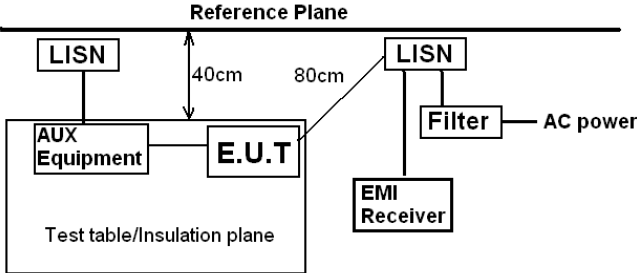
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

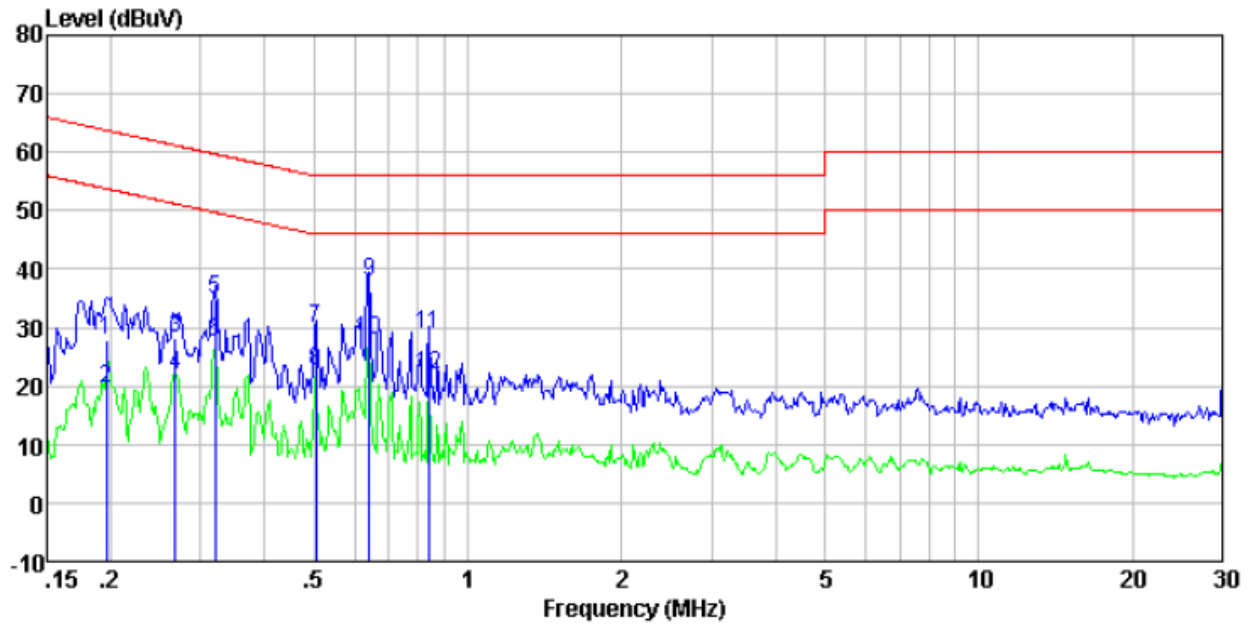
7 Test results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207 RSS-Gen Section 8.8																			
Test Method:	ANSI C63.10:2013 and RSS-Gen																			
Test Frequency Range:	150KHz to 30MHz																			
Class / Severity:	Class B																			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																			
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* Decreases with the logarithm of the frequency.</p>						Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																			
	Quasi-peak	Average																		
0.15-0.5	66 to 56*	56 to 46*																		
0.5-5	56	46																		
5-30	60	50																		
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>																			
Test procedure:	<p>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.</p> <p>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).</p> <p>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 C63.10:2013 on conducted measurement.</p>																			
Test Instruments:	Refer to section 6.0 for details																			
Test mode:	Refer to section 5.2 for details																			
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar														
Test results:	Pass																			

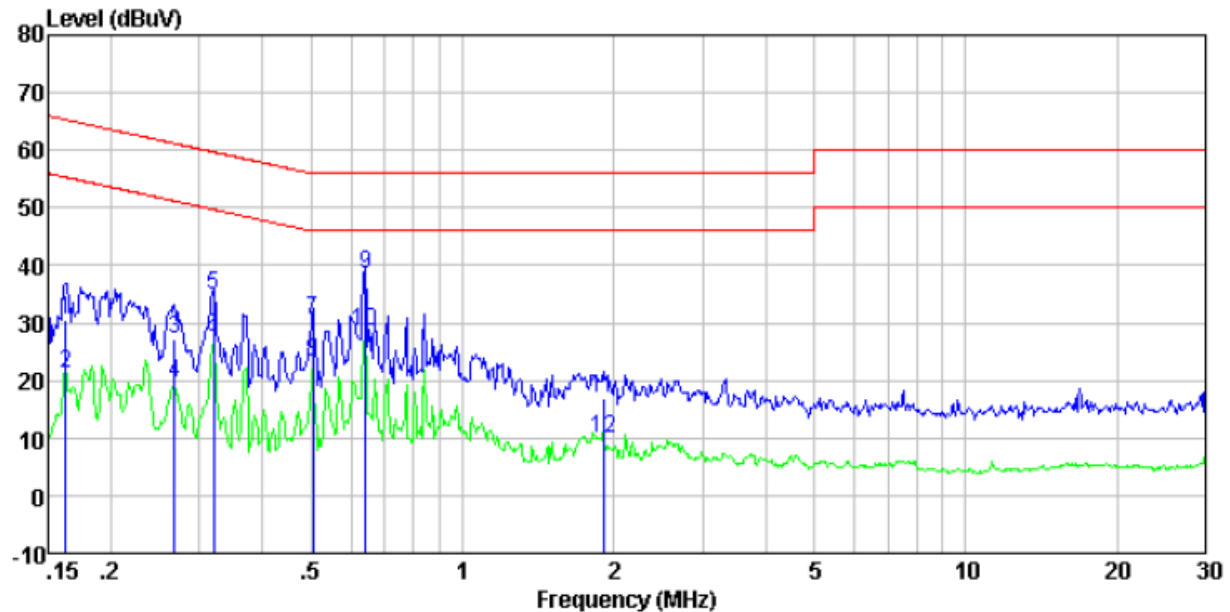
Measurement data

Line:



Freq MHz	Reading level dBUV	LISN/ISN factor dB/m	Cable loss dB	Level dBUV	Limit level dBUV	Over limit dB	Remark
0.20	7.40	20.40	0.11	27.91	63.76	-35.85	QP
0.20	-0.86	20.40	0.11	19.65	53.76	-34.11	Average
0.27	7.86	20.40	0.10	28.36	61.20	-32.84	QP
0.27	1.41	20.40	0.10	21.91	51.20	-29.29	Average
0.32	14.46	20.39	0.10	34.95	59.71	-24.76	QP
0.32	6.91	20.39	0.10	27.40	49.71	-22.31	Average
0.50	9.42	20.31	0.11	29.84	56.00	-26.16	QP
0.50	2.02	20.31	0.11	22.44	46.00	-23.56	Average
0.64	17.43	20.27	0.12	37.82	56.00	-18.18	QP
0.64	7.41	20.27	0.12	27.80	46.00	-18.20	Average
0.84	8.42	20.23	0.14	28.79	56.00	-27.21	QP
0.84	1.43	20.23	0.14	21.80	46.00	-24.20	Average

Neutral:

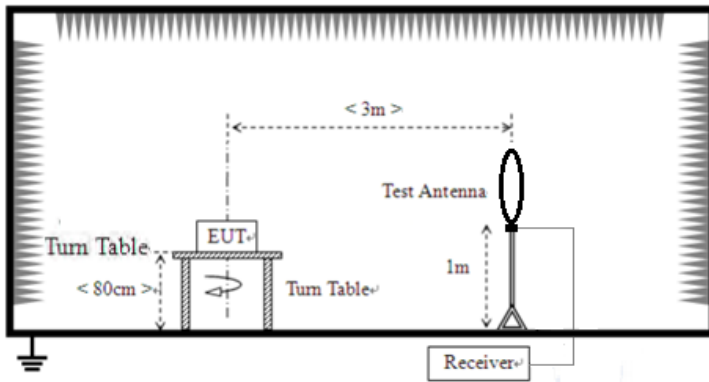


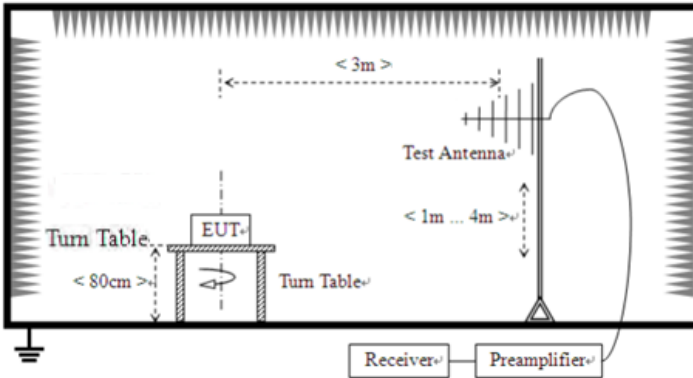
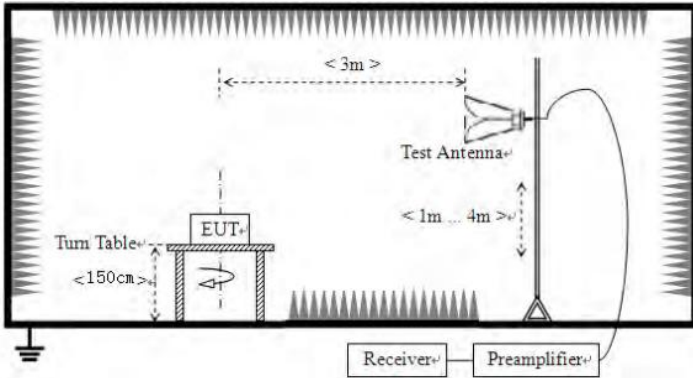
Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	10.09	20.40	0.08	30.57	65.34	-34.77	QP
0.16	0.71	20.40	0.08	21.19	55.34	-34.15	Average
0.27	6.74	20.40	0.10	27.24	61.20	-33.96	QP
0.27	-0.90	20.40	0.10	19.60	51.20	-31.60	Average
0.32	14.48	20.39	0.10	34.97	59.71	-24.74	QP
0.32	6.88	20.39	0.10	27.37	49.71	-22.34	Average
0.50	9.99	20.31	0.11	30.41	56.00	-25.59	QP
0.50	2.71	20.31	0.11	23.13	46.00	-22.87	Average
0.64	18.25	20.27	0.12	38.64	56.00	-17.36	QP
0.64	8.19	20.27	0.12	28.58	46.00	-17.42	Average
1.91	-3.62	20.20	0.17	16.75	56.00	-39.25	QP
1.91	-10.44	20.20	0.17	9.93	46.00	-36.07	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
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
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.
5. AC 120V 60Hz

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 RSS-210 B10(a)& RSS-210 B10(b)& RSS-Gen Clause 8.9&8.10				
Test Method:	ANSI C63.10:2013 and RSS-Gen				
Test Frequency Range:	9kHz to 10GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	902-928MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)	Value	Measurement Distance
	0.009MHz-0.490MHz		2400/F(KHz)	QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	30m
	1.705MHz-30MHz		30	QP	30m
	30MHz-88MHz		100	QP	3m
	88MHz-216MHz		150	QP	
	216MHz-960MHz		200	QP	
	960MHz-1GHz		500	QP	
	Above 1GHz		500	Average	
			5000	Peak	
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	Below 30MHz				
					
	Below 1GHz				

	<div>Report No.: CPT0202010000002-01</div> <div><p>Above 1GHz</p></div>					
Test Procedure:	<div><div>1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div><div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div><div>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.</div><div>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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div><div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div><div>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.</div></div>					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Measurement data:

7.2.1 Field Strength of The Fundamental Signal and spurious emissions

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
915.00	105.76	22.35	4.91	37.58	95.44	114.00	-18.56	Vertical
915.00	103.60	22.35	4.91	37.58	93.28	114.00	-20.72	Horizontal

QP value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
915.00	95.33	22.35	4.91	37.58	85.01	94.00	-8.99	Vertical
915.00	94.07	22.35	4.91	37.58	83.75	94.00	-10.25	Horizontal

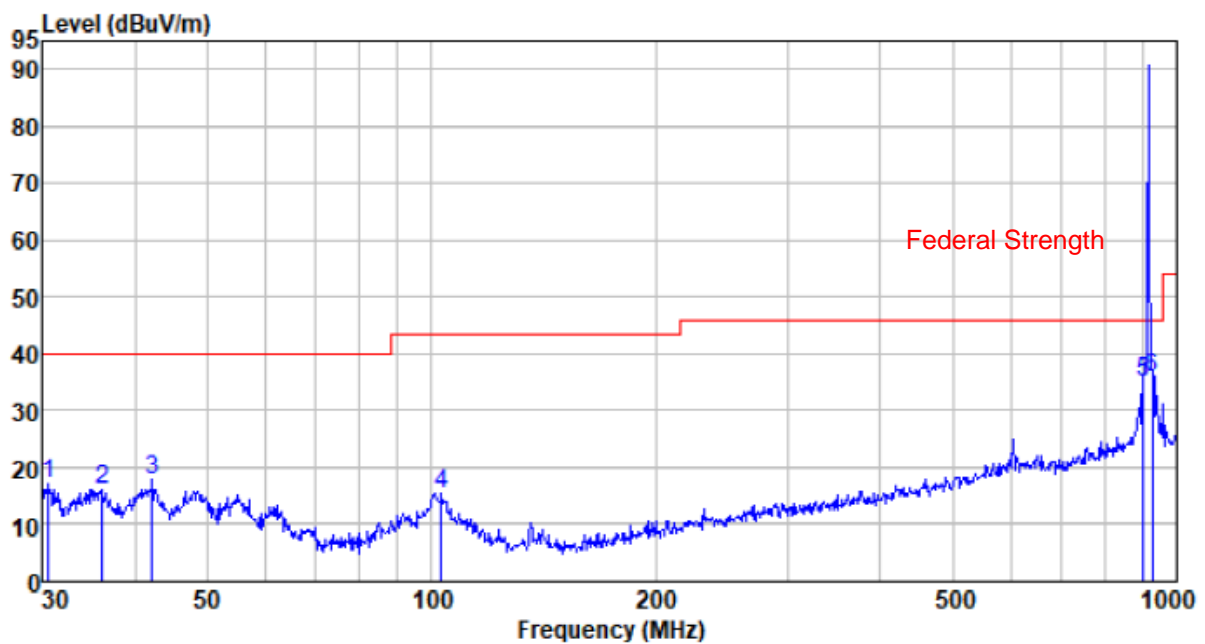
7.2.2 Spurious emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

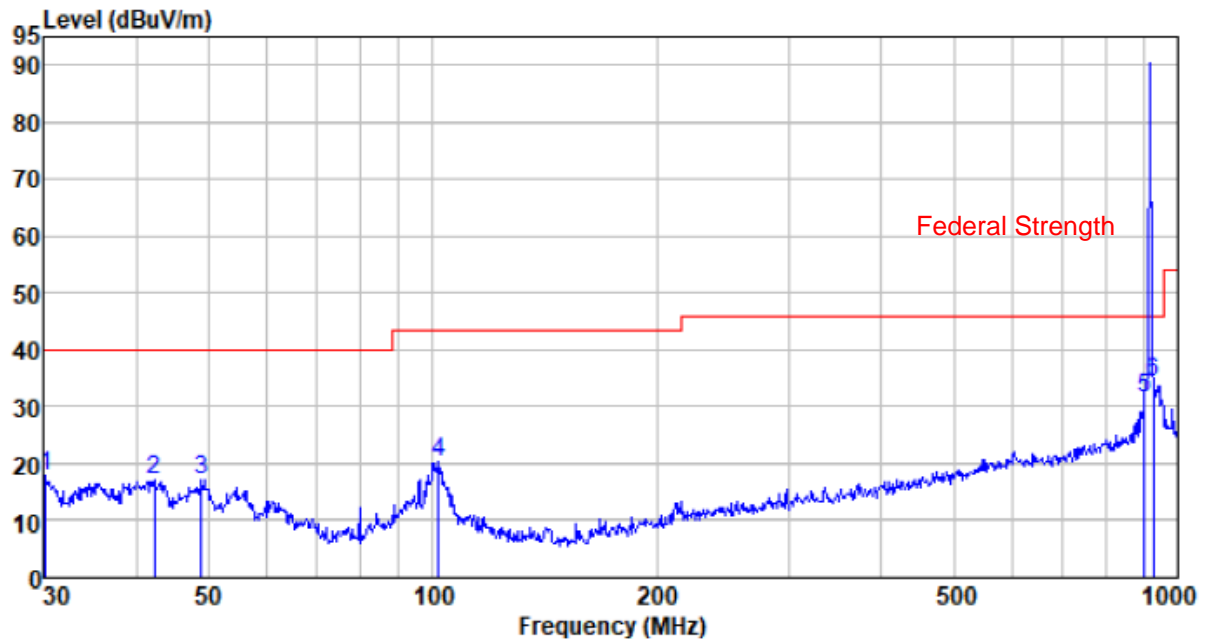
■ Above 30MHz

Test mode:	Transmitting mode	Antenna Polarity:	Horizontal
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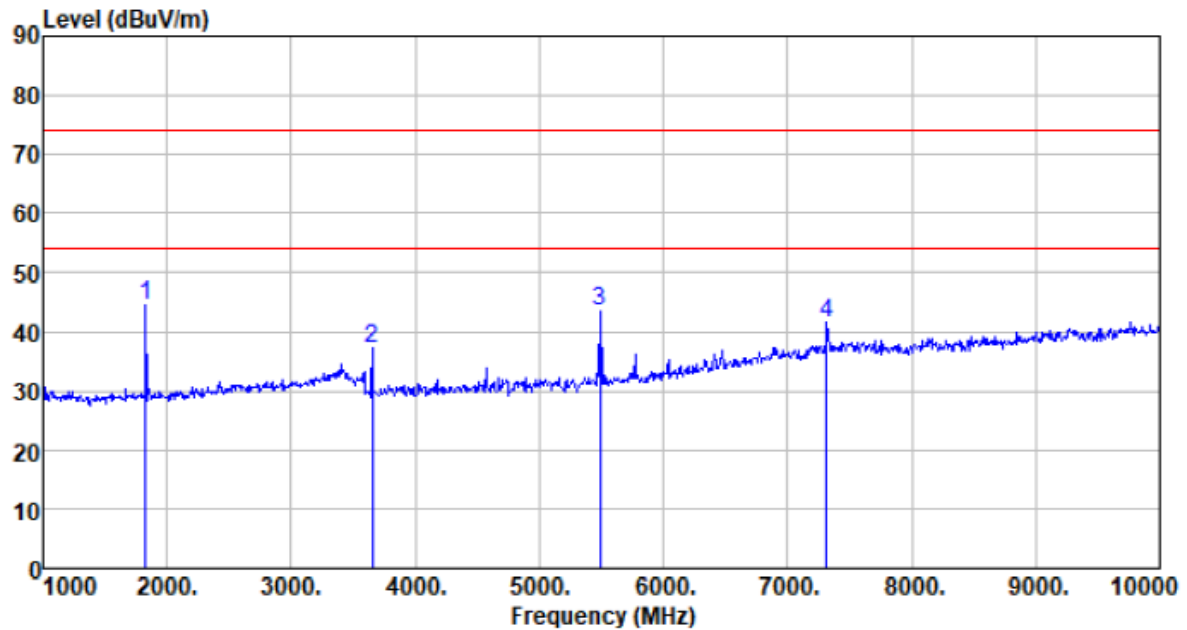
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
30.638	40.55	11.22	0.56	35.05	17.28	40.00	-22.72	Peak
36.127	39.45	11.52	0.62	35.43	16.16	40.00	-23.84	Peak
42.154	40.64	12.22	0.69	35.79	17.76	40.00	-22.24	Peak
103.080	39.16	11.83	1.22	36.75	15.46	43.50	-28.04	Peak
902.000	45.46	22.30	4.87	37.60	35.03	46.00	-10.97	Peak
928.000	45.94	22.41	4.96	37.57	35.74	46.00	-10.26	Peak

Test mode:	Transmitting mode	Antenna Polarity:	Vertical
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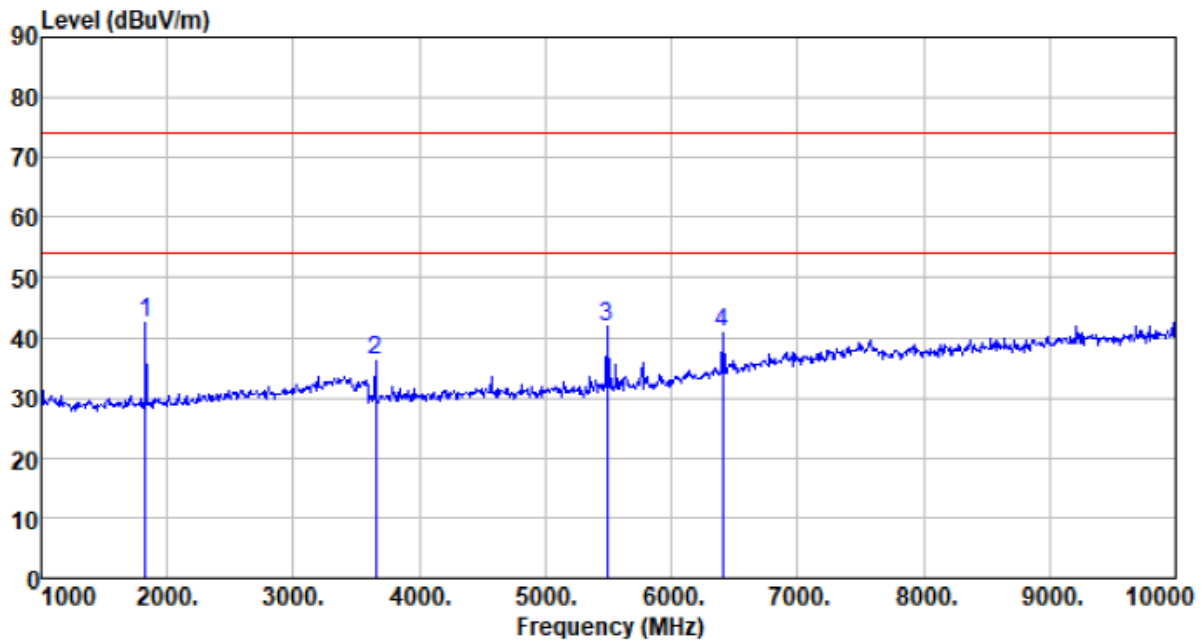
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
30.211	41.16	11.21	0.55	35.02	17.90	40.00	-22.10	QP
42.302	39.98	12.23	0.69	35.79	17.11	40.00	-22.89	QP
48.843	40.43	12.29	0.76	36.13	17.35	40.00	-22.65	QP
101.644	43.98	11.99	1.21	36.73	20.45	43.50	-23.05	QP
902.000	41.88	22.30	4.87	37.60	31.45	46.00	-14.55	QP
928.000	44.50	22.41	4.96	37.57	34.30	46.00	-11.70	QP

Test mode:	Transmitting mode	Antenna Polarity:	Horizontal
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1828.000	52.63	25.85	2.49	36.40	44.57	74.00	-29.43	Peak
3655.000	41.75	28.85	3.86	37.37	37.09	74.00	-36.91	Peak
5491.000	43.79	31.69	5.22	37.09	43.61	74.00	-30.39	Peak
7318.000	34.12	36.43	6.63	35.60	41.58	74.00	-32.42	Peak

Test mode:	Transmitting mode	Antenna Polarity:	Vertical
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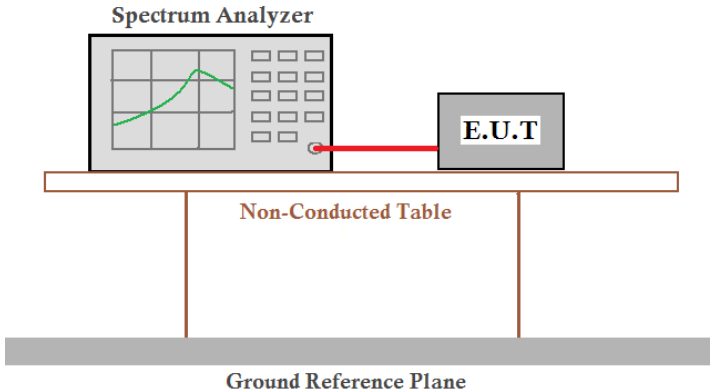


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
1828.000	50.40	25.85	2.49	36.40	42.34	74.00	-31.66	Peak
3655.000	40.70	28.85	3.86	37.37	36.04	74.00	-37.96	Peak
5491.000	41.93	31.69	5.22	37.09	41.75	74.00	-32.25	Peak
6409.000	37.02	34.08	5.77	36.10	40.77	74.00	-33.23	Peak

Remark:

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

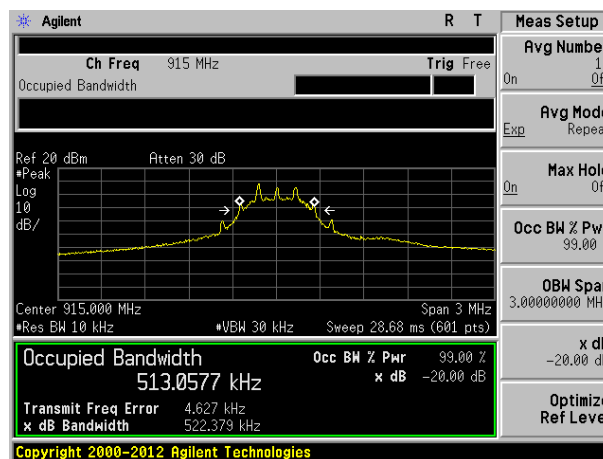
7.3 20dB Occupy Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215 RSS-Gen Section 6.7
Test Method:	ANSI C63.10:2013 and RSS-Gen
Limit:	Operation Frequency range 902MHz~928MHz
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Operation Frequency	20dB bandwidth(kHz)	99% Occupied bandwidth(kHz)	Result
915MHz	522.379	513.0577	Pass

Test plot as follows:



915MHz

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details

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