

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological

Development District, Guangzhou, China 510663

TEST REPORT

Application No.: GZEM1901010351CR **Applicant:** Comba Telecom Ltd.

Address of Applicant: 611 East Wing, No. 8 Science Park West Avenue, Hong Kong Science Park,

Tai Po, Hong Kong

Manufacturer: Comba Telecom Systems(China) Ltd.

Address of Manufacturer: No.10 Shenzhou Road, Guangzhou Science City, Guangzhou 510663,

Guangdong, P.R. China

Factory: Comba Telecom Systems(China) Ltd.

Address of Factory: No.6, Jinbi Road, Economics and Technology Development District,

Guangzhou, Guangdong, China

Equipment Under Test (EUT):

FCC ID: PX8CP-AMS

EUT Name: Critical Point Antenna Monitoring System

Model No.: CP-AMS Trade Mark: COMBA

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2019-01-18

Date of Test: 2019-01-23 to 2019-02-20

Date of Issue: 2019-04-19

Test Result: Pass*



Kobe Jian Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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



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Revision Record								
Version Chapter Date Modifier Remark								
01		2019-04-19		Original				

Authorized for issue by:			
Tested By	City Knang	2019-01-23 to 2019-02-20	
	Lily_Kuang /Project Engineer	Date	
Checked By	Riday Liu	2019-03-14	
	Ricky Liu /Reviewer	Date	



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2 Test Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass			

Radio Spectrum Matt	Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz- 30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A*			
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass			
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass			
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass			
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass			

^{*}N/A: it is not applicable for DC power supply.



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 48V

Antenna Type Dedicated Antenna

Antenna Gain: 12.5dBi Modulation Type ASK Number of Channels 2

Operation Frequency 910MHz, 915MHz

4.2 Description of Support Units

The dedicated antenna didn't sold with the EUT.

Description	scription Manufacturer Model No.		Serial No.
DC Power SUPPLY	SGS	XFR 60-20	/
Dedicated Antenna	Sunwave	TXD-V-HU04-1N-1	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10-8
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
/	RF Radiated Power	±4.8dB (above 1GHz)
0	Dedicted Courieus Emissies Test	±4.5dB (30MHz-1GHz)
8	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., 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 our files. Registration 282399, May 31, 2002.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● Industry Canada (Registration No.: 4620B-1)

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

● VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. Have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A	
Two-Line V-Netwok	R&S	ENV216	EMC0118	2019-01-11	2020-01-10	
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20	
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18	
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22	
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03	
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18	
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A	

20dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	



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Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2019-01-20	2020-01-19
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2019-01-20	2020-01-19
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2019-01-07	2020-01-08
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2019-01-11	2020-01-10
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2019-01-11	2020-01-10
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19					
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18					



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

Limit: 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

Standard Requirement:

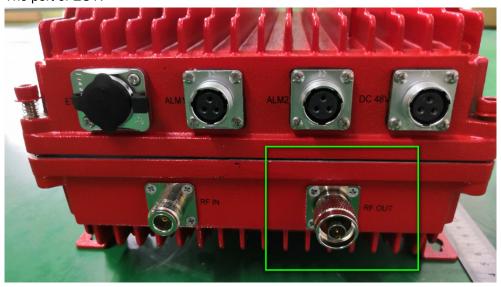
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is an external antenna. The antennas is not sold with products. The best case gain of the antenna is 12.5dBi. The frequency scope of the antenna is from 806 to 960MHz.

The port of EUT:





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External antenna(The antennas is not sold with products)





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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

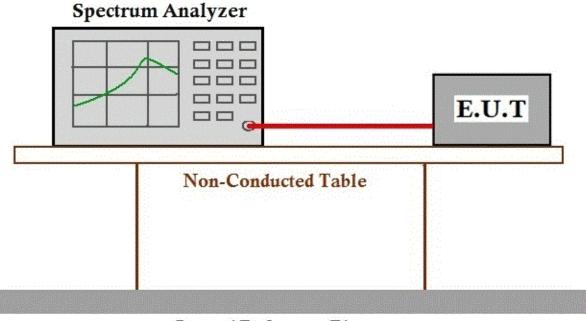
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data



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Channel:910MHz:

Left:





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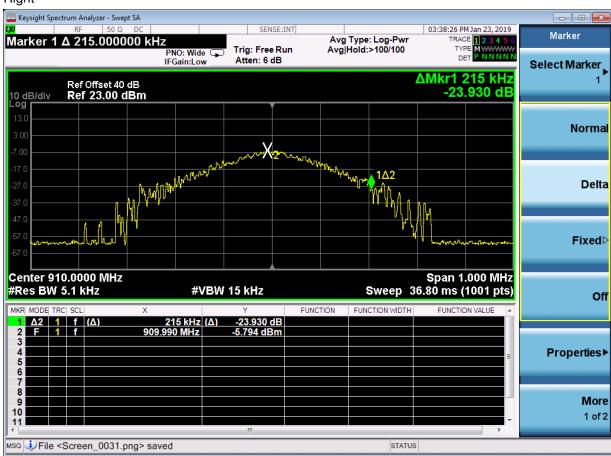
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Right



So: the 20dB Bandwidth = 400kHz



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Channel:915MHz:

Left:



Right:



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So: the 20dB Bandwidth = 520kHz



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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark		
000MH= 000MH=	94.0	Average Value		
902MHz-928MHz	114.0	Peak Value		

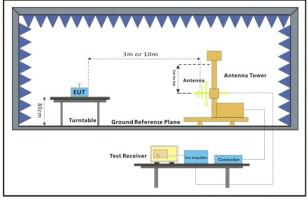
7.2.1 E.U.T. Operation

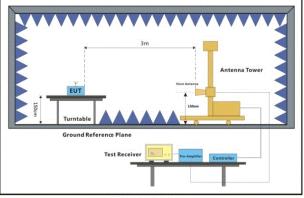
Operating Environment:

Temperature: 22 °C Humidity: 65.4 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.2.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Channel: 910MHz:

Mode:a:	Polarization:Horizontal:	Modulation: ASK:
mout.a.	i dializationi, lonzontai.	Modulation.

	Freq		Antenna Factor						Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		S 	-
1	910.002	80.60	21.76	3.13	27.00	78.49	94.00	-15.51	HORIZONTAL	Average	
2	910.002	84.06	21.76	3.13	27.00	81.95	114.00	-32.05	HORIZONTAL	Peak	

Mode:a; Polarization:Vertical; Modulation:ASK;

	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	910.002	80.10	21.76	3.13	27.00	77.99	94.00	-16.01	VERTICAL	Average
2	910.002	85.54	21.76	3.13	27.00	83.43	114.00	-30.57	VERTICAL	Peak

Channel: 915MHz:

1

Mode:a; Polarization:Horizontal; Modulation:ASK; ;

	Freq		Antenna Factor						Pol/Phase	Remark	
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-	_
									HORIZONTAL HORIZONTAL		

Mode:a; Polarization:Vertical; Modulation:ASK;

	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
1	915.000	78.80	21.85	3.13	26.99	76.79	94.00	-17.21	VERTICAL	Average
2	915.000	78.83	21.85	3.13	26.99	76.82	114.00	-37.18	VERTICAL	Peak



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark		
30MHz-88MHz	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 1GHz	54.0	Average Value		
Above 1GHz	74.0	Peak Value		

Emission 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.

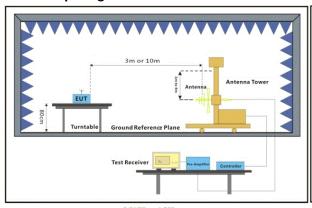
7.3.1 E.U.T. Operation

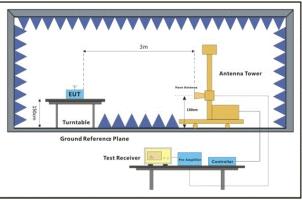
Operating Environment:

Temperature: 20.9 °C Humidity: 55.3 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz Above 1GHz

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7.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Channel:910MHz:

1 2

Mode:a; Polarization:Horizontal; Modulation:ASK;

Freq		Factor						Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3	_
523.000	28.75	16.93	2.42	27.46	20.64	46.00	-25.36	HORIZONTAL	Peak	
950.000	29.26	22.14	3.20	26.90	27.70	46.00	-18.30	HORIZONTAL	Peak	

Mode:a; Polarization:Vertical; Modulation:ASK;

	Freq	ReadAntenna Level Factor								Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		V2	-
1	523.000	33.54	16.93	2.42	27.46	25.43	46.00	-20.57	VERTICAL	Peak	
2	950.000	28.83	22.14	3.20	26.90	27.27	46.00	-18.73	VERTICAL	Peak	

Channel:915MHz:

1 2

Mode:a; Polarization:Horizontal; Modulation:ASK;

	Freq	ReadAntenna Level Factor				reamp actor Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3
L	523.000	28.45	16.93	2.42	27.46	20.34	46.00	-25.66	HORIZONTAL	Peak
2	957.000	29.80	22.16	3.20	26.89	28.27	46.00	-17.73	HORIZONTAL	Peak

Mode:a; Polarization: Vertical; Modulation: ASK;

	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
1	521.000	35.53	16.91	2.42	27.46	27.40	46.00	-18.60	VERTICAL	Peak
2	957.000	29.35	22.16	3.20	26.89	27.82	46.00	-18.18	VERTICAL	Peak



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field strength (microvolts/mete r)	Limit (dBuV/m)	Detector	Measurement Distance (meters)	
0.009-0.490	2400/F(kHz)	-	-	300	
0.490-1.705	24000/F(kHz)	-	-	30	
1.705-30	30	-	-	30	
30-88	100	40.0	QP	3	
88-216	150	43.5	QP	3	
216-960	200	46.0	QP	3	
960-1000	500	54.0	QP	3	
Above 1000	500	54.0	AV	3	

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 55.3 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.



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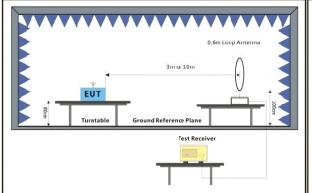
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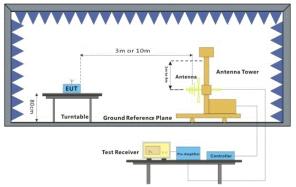


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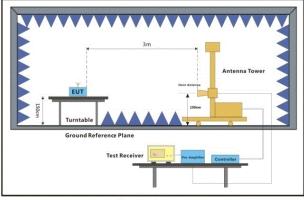
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Measured Level I=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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Channel:910MHz:

Mode:a; Polarization:Horizontal; Modulation:ASK;

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	
1	2009.093	31.46	25.21	11.00	37.50	30.17	54.00	-23.83	HORIZONTAL	Average
2	2009.093	46.82	25.21	11.00	37.50	45.53	74.00	-28.47	HORIZONTAL	Peak
3	3365.116	33.14	27.90	5.53	36.97	29.60	54.00	-24.40	HORIZONTAL	Average
4	3365.116	49.06	27.90	5.53	36.97	45.52	74.00	-28.48	HORIZONTAL	Peak
5	4446.313	35.45	30.06	6.24	36.92	34.83	54.00	-19.17	HORIZONTAL	Average
6	4446.313	50.51	30.06	6.24	36.92	49.89	74.00	-24.11	HORIZONTAL	Peak
7	5794.287	26.91	32.16	7.47	37.00	29.54	54.00	-24.46	HORIZONTAL	Average
8	5794.287	44.53	32.16	7.47	37.00	47.16	74.00	-26.84	HORIZONTAL	Peak
9	7194.490	26.16	35.45	7.34	36.93	32.02	54.00	-21.98	HORIZONTAL	Average
10	7194.490	42.55	35.45	7.34	36.93	48.41	74.00	-25.59	HORIZONTAL	Peak
11	9506.048	27.08	37.40	8.22	37.07	35.63	54.00	-18.37	HORIZONTAL	Average
12	9506.048	42.26	37.40	8.22	37.07	50.81	74.00	-23.19	${\tt HORIZONTAL}$	Peak

Mode:a; Polarization: Vertical; Modulation:ASK

		ReadAntenna		Cable Preamp		Limit		Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	
1	2009.093	33.09	25.21	11.00	37.50	31.80	54.00	-22.20	VERTICAL	Average
2	2009.093	46.59	25.21	11.00	37.50	45.30	74.00	-28.70	VERTICAL	Peak
3	3365.116	35.27	27.90	5.53	36.97	31.73	54.00	-22.27	VERTICAL	Average
4	3365.116	49.98	27.90	5.53	36.97	46.44	74.00	-27.56	VERTICAL	Peak
5	4446.313	41.57	30.06	6.24	36.92	40.95	54.00	-13.05	VERTICAL	Average
6	4446.313	52.63	30.06	6.24	36.92	52.01	74.00	-21.99	VERTICAL	Peak
7	6622.165	31.86	34.46	7.14	36.98	36.48	54.00	-17.52	VERTICAL	Average
8	6622.165	44.45	34.46	7.14	36.98	49.07	74.00	-24.93	VERTICAL	Peak
9	8109.610	28.50	36.43	8.31	36.91	36.33	54.00	-17.67	VERTICAL	Average
10	8109.610	42.20	36.43	8.31	36.91	50.03	74.00	-23.97	VERTICAL	Peak
11	9727.473	27.21	37.66	8.29	37.09	36.07	54.00	-17.93	VERTICAL	Average
12	9727.473	42.15	37.66	8.29	37.09	51.01	74.00	-22.99	VERTICAL	Peak



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Channel:915MHz:

Mode:a; Polarization:Vertical; Modulation:ASK;

		ReadAntenna		Cable Preamp			Limit Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	9	 .
1	1270.574	35.17	24.73	2.96	38.14	24.72	54.00	-29.28	HORIZONTAL	Average
2	1270.574	47.33	24.73	2.96	38.14	36.88	74.00	-37.12	HORIZONTAL	Peak
3	2786.121	34.95	27.49	4.70	37.25	29.89	54.00	-24.11	HORIZONTAL	Average
4	2786.121	46.22	27.49	4.70	37.25	41.16	74.00	-32.84	HORIZONTAL	Peak
5	4497.798	40.96	30.10	6.54	36.92	40.68	54.00	-13.32	HORIZONTAL	Average
6	4497.798	52.04	30.10	6.54	36.92	51.76	74.00	-22.24	HORIZONTAL	Peak
7	5902.011	33.84	32.24	7.42	37.00	36.50	54.00	-17.50	HORIZONTAL	Average
8	5902.011	44.84	32.24	7.42	37.00	47.50	74.00	-26.50	HORIZONTAL	Peak
9	8184.648	28.16	36.37	8.26	36.91	35.88	54.00	-18.12	HORIZONTAL	Average
10	8184.648	42.51	36.37	8.26	36.91	50.23	74.00	-23.77	HORIZONTAL	Peak
11	9484.185	28.34	37.36	8.24	37.07	36.87	54.00	-17.13	HORIZONTAL	Average
12	9484.185	42.42	37.36	8.24	37.07	50.95	74.00	-23.05	HORIZONTAL	Peak

Mode:a; Polarization:Vertical; Modulation:ASK;

		ReadAntenna		Cable Preamp		Limit		Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	-	·
1	2065.380	34.11	25.32	10.00	37.49	31.94	54.00	-22.06	VERTICAL	Average
2	2065.380	46.57	25.32	10.00	37.49	44.40	74.00	-29.60	VERTICAL	Peak
3	3917.419	35.74	29.32	7.51	36.91	35.66	54.00	-18.34	VERTICAL	Average
4	3917.419	47.55	29.32	7.51	36.91	47.47	74.00	-26.53	VERTICAL	Peak
5	4539.416	39.25	30.16	6.75	36.92	39.24	54.00	-14.76	VERTICAL	Average
6	4539.416	53.37	30.16	6.75	36.92	53.36	74.00	-20.64	VERTICAL	Peak
7	5902.011	32.15	32.24	7.42	37.00	34.81	54.00	-19.19	VERTICAL	Average
8	5902.011	45.26	32.24	7.42	37.00	47.92	74.00	-26.08	VERTICAL	Peak
9	7852.356	28.52	36.39	8.32	36.90	36.33	54.00	-17.67	VERTICAL	Average
10	7852.356	43.25	36.39	8.32	36.90	51.06	74.00	-22.94	VERTICAL	Peak
11	9246.981	26.26	36.95	8.38	37.05	34.54	54.00	-19.46	VERTICAL	Average
12	9246.981	41.89	36.95	8.38	37.05	50.17	74.00	-23.83	VERTICAL	Peak

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