

TEST REPORT

Application No.: SHEM1906014567CR
FCC ID: 2APV2-CSK3A
IC: 23928-CSK3A
Applicant: Hangzhou Ezviz Software Co., Ltd.
Address of Applicant: Floor 16,Unit B,Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City,Zhejiang Province
Manufacturer: Hangzhou Ezviz Software Co., Ltd.
Address of Manufacturer: Floor 16,Unit B,Building 1, No. 555, Qianmo Road, Binjiang District, Hangzhou City,Zhejiang Province
Factory: Hangzhou Hikvision Electronics Co., Ltd.
Address of Factory: No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou.

Equipment Under Test (EUT):
EUT Name: Smart Wireless Alarm Panel
Model No.: CS-K3-A, CS-K3-C ☐
☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade mark: eZVIZ
Standard(s) : 47 CFR Part 15, Subpart C 15.249
RSS-210 Issue 9 , August 2016
RSS-Gen Issue 5, April 2018

Date of Receipt: 2019-06-25
Date of Test: 2019-06-26 to 2019-07-01
Date of Issue: 2019-08-07

Test Result:	Pass *
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* In the configuration tested, the EUT complied with the standards specified above.

Parlam Zhan

Parlam Zhan
E&E Section 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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Revision Record			
Version	Description	Date	Remark
00	Original	2019-08-07	/

Authorized for issue by:			
		<i>Vincent Zhu</i>	
		_____ Vincent Zhu / Project Engineer	
		<i>Parlam zhan</i>	
		_____ Parlam Zhan / Reviewer	

2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	RSS-Gen Section 8.1.3	N/A	Pass

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	RSS-Gen Issue 4 Section 7.2.4	ANSI C63.10 (2013) Section 6.2	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	RSS-210 Issue 9 Annex 8	ANSI C63.10 (2013) Section 6.9	Pass
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	RSS-210 Issue 9 Annex 2.9 (a)	ANSI C63.10 (2013) Section 6.5&6.6	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	RSS-Gen Issue 4 Section 4.9 RSS-Gen Issue 4 Section 7.2.2	ANSI C63.10 (2013) Section 6.4&6.5&6.6	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	RSS-Gen Issue 4 Section 4.9 RSS-Gen Issue 4 Section 7.2.2	ANSI C63.10 (2013) Section 6.4&6.5&6.6	Pass
99% Bandwidth	RSS-247 Issue 2, February 2017	RSS-Gen Section 6.6	ANSI C63.10 Section 6.9.3	Pass
Frequency Stability	-	RSS-Gen Section 8.11	RSS-Gen Section 6.11	Pass

Note 1: Frequency stability requested in RSS GEN S8.11 has been complied since the result of band edge can demonstrate.

Declaration of EUT Family Grouping:

Note2: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model CS-K3-A was tested since their differences were the model number, trade name and appearance.



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 DESCRIPTION OF SUPPORT UNITS.....	5
4.3 MEASUREMENT UNCERTAINTY	6
4.4 TEST LOCATION	7
4.5 TEST FACILITY	7
4.6 DEVIATION FROM STANDARDS	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS.....	7
5 EQUIPMENT LIST	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	9
6.1 ANTENNA REQUIREMENT	9
7 RADIO SPECTRUM MATTER TEST RESULTS	10
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	10
7.2 20DB BANDWIDTH.....	13
7.3 FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A))	14
7.4 RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY	15
7.5 RADIATED EMISSIONS	18
7.6 99% BANDWIDTH.....	22
8 EQUIPMENT UNDER TEST PICTURES.....	24
9 EUT CONSTRUCTIONAL DETAILS.....	24

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V by adapter
	Adapter:
	Model.:ADS-5RE-06 05050EPCU/EPC
	Input:100~240V~50/60Hz 150mA
	Battery:
	Rechargeable Li-ion battery 3.7V 2000mAh
Test voltage:	AC 120V 60Hz
Cable:	DC Cable 1.5m for adapter
Antenna Type	PCB Antenna
Modulation Type	FSK
Number of Channels	1
Operation Frequency	915MHz
Antenna Gain:	-1 dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 8.4 \times 10^{-8}$
2	Timeout	$\pm 2s$
3	Duty cycle	$\pm 0.37\%$
4	Occupied Bandwidth	$\pm 3\%$
5	RF conducted power	$\pm 0.6dB$
6	RF power density	$\pm 2.84dB$
7	Conducted Spurious emissions	$\pm 0.75dB$
8	RF Radiated power	$\pm 4.6dB$ (Below 1GHz)
		$\pm 4.1dB$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.2dB$ (Below 30MHz)
		$\pm 4.4dB$ (30MHz-1GHz)
		$\pm 4.8dB$ (1GHz-18GHz)
		$\pm 5.2dB$ (Above 18GHz)
10	Temperature test	$\pm 1^\circ C$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

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

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

- **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB identifier: CN0020.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2018-12-20	2019-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2018-12-20	2019-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9kHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2018-08-13	2019-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2018-08-13	2019-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2018-12-20	2019-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2018-08-13	2019-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2018-12-26	2019-12-25

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.

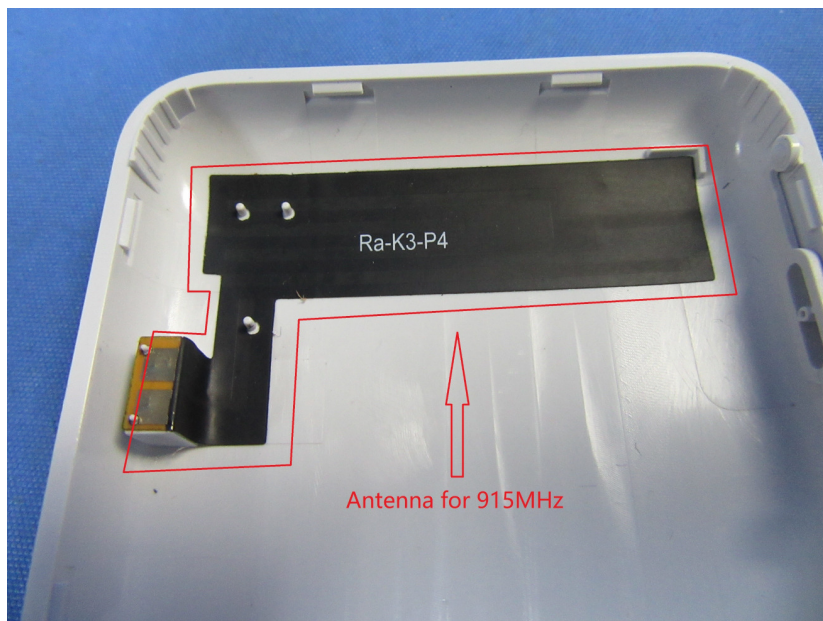
6.1.2 Conclusion

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 PCB antenna, the antenna gain is -1dBi and no consideration of replacement.



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2
Limit:

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

* Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

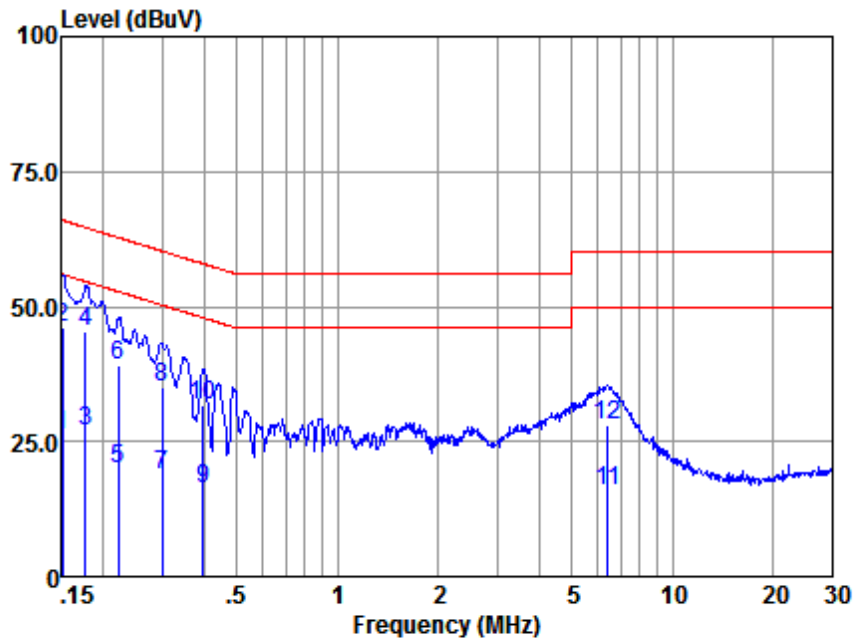
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
Test mode a: Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.1.2 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Mode:a; Line:Live Line

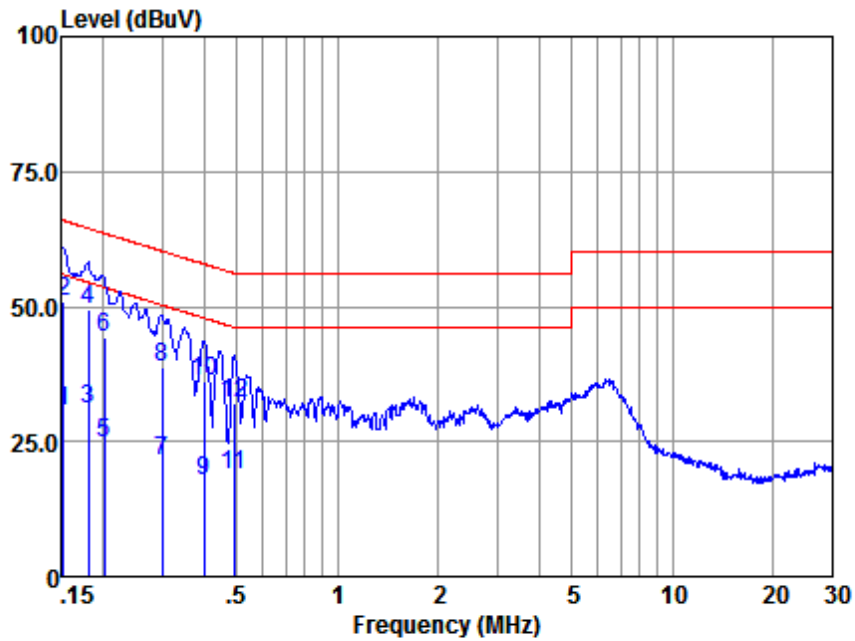


LISN : LINE
EUT/Project No : 14565CR
Test Mode : a

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.15	16.20	0.09	10.00	26.29	55.96	-29.67	Average
2	0.15	36.19	0.09	10.00	46.28	65.96	-19.68	QP
3	0.18	16.72	0.08	10.00	26.80	54.64	-27.84	Average
4	0.18	35.28	0.08	10.00	45.36	64.64	-19.28	QP
5	0.22	9.94	0.07	10.00	20.01	52.74	-32.73	Average
6	0.22	28.90	0.07	10.00	38.97	62.74	-23.77	QP
7	0.30	8.92	0.07	10.00	18.99	50.28	-31.29	Average
8	0.30	24.90	0.07	10.00	34.97	60.28	-25.31	QP
9	0.40	6.15	0.08	10.00	16.23	47.95	-31.72	Average
10	0.40	21.61	0.08	10.00	31.69	57.95	-26.26	QP
11	6.42	5.29	0.17	10.30	15.76	50.00	-34.24	Average
12	6.42	17.43	0.17	10.30	27.90	60.00	-32.10	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

Mode:a; Line:Neutral Line



LISN : NEUTRAL
EUT/Project No : 14565CR
Test Mode : a

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	20.52	0.07	10.00	30.59	55.91	-25.32	Average
2	0.15	40.96	0.07	10.00	51.03	65.91	-14.88	QP
3	0.18	21.00	0.06	10.00	31.06	54.50	-23.44	Average
4	0.18	39.38	0.06	10.00	49.44	64.50	-15.06	QP
5	0.20	14.73	0.06	10.00	24.79	53.58	-28.79	Average
6	0.20	34.05	0.06	10.00	44.11	63.58	-19.47	QP
7	0.30	11.50	0.06	10.00	21.56	50.24	-28.68	Average
8	0.30	28.73	0.06	10.00	38.79	60.24	-21.45	QP
9	0.40	7.56	0.06	10.00	17.62	47.86	-30.24	Average
10	0.40	26.19	0.06	10.00	36.25	57.86	-21.61	QP
11	0.49	8.90	0.06	10.00	18.96	46.19	-27.23	Average
12	0.49	21.96	0.06	10.00	32.02	56.19	-24.17	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

7.2 20dB Bandwidth

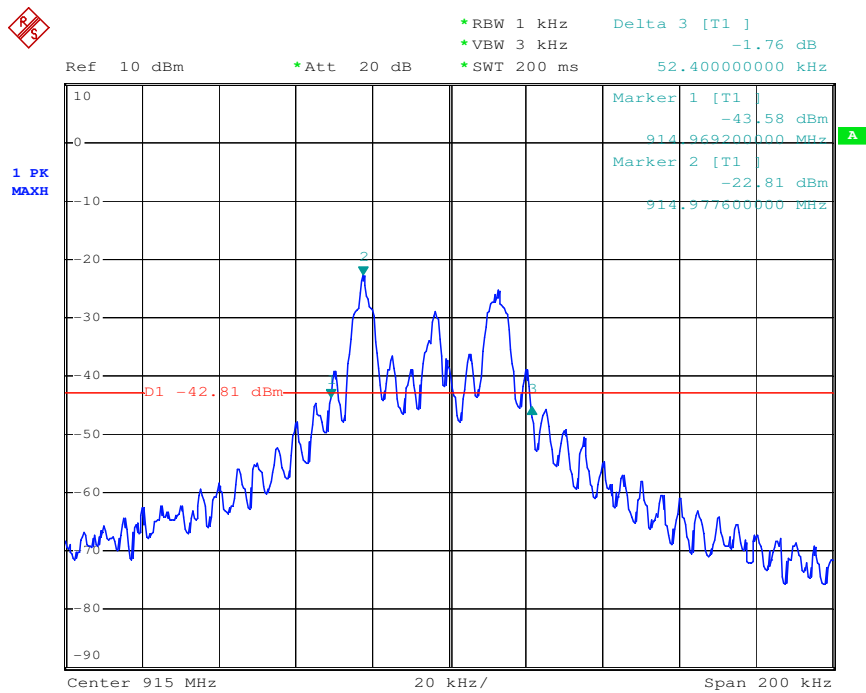
Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9
Limit: N/A

7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
Test mode a:Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.2.2 Measurement Procedure and Data

Frequency (MHz)	Bandwidth (MHz)	Result
915	0.052	PASS



Date: 28.JUN.2019 12:09:17

7.3 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
Limit:

Frequency	Limit (dBuV/m @3m)	Remark
902-928 MHz	94.0	Quasi-Peak
	114.0	Peak Value

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.3.2 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

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
915	106.52	-14.04	92.48	94.00	-1.52	Peak	Horizontal
	101.06	-14.04	87.02	94.00	-6.98	Peak	Vertical

Remark:

1) The basic equation with a sample calculation is as follows: Level = Read Level + Factor.

(The Factor is calculated by adding the Antenna Factor, Cable Loss and Preamp Factor)

If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

7.4 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

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode a:Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.4.2 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.

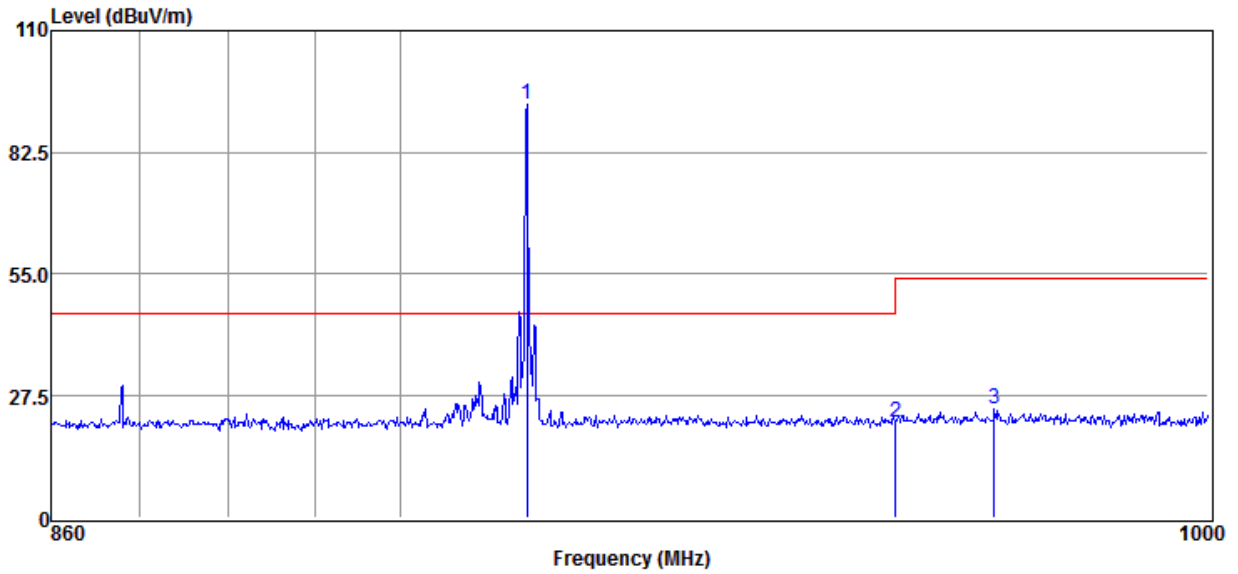
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

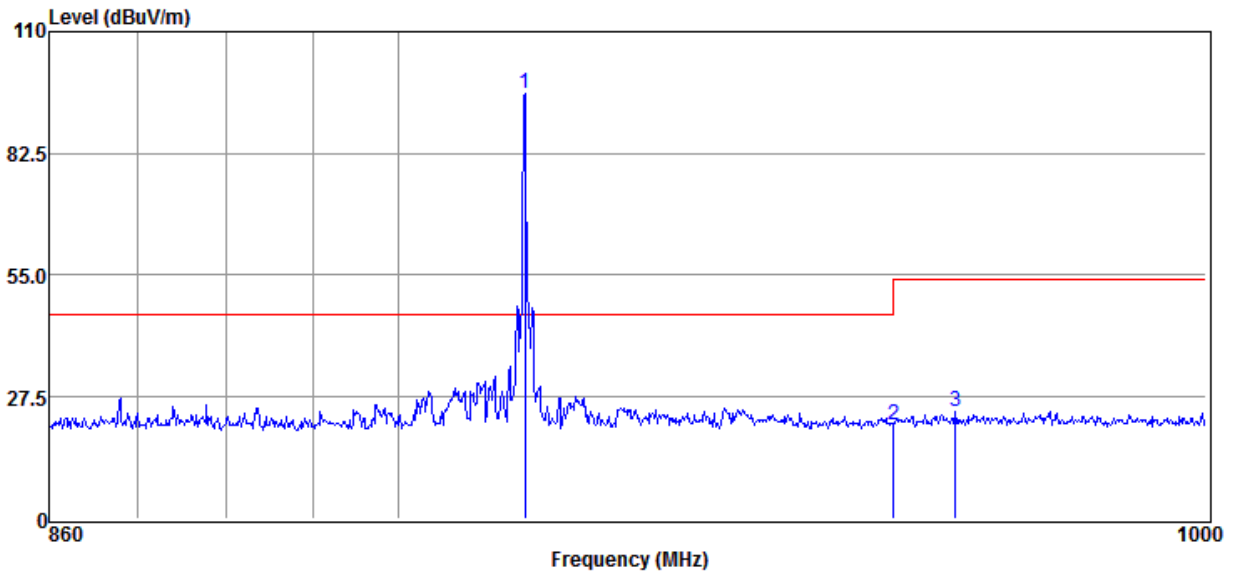
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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



MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	914.997	107.23	-21.43	-14.04	46.00	47.19	Peak	Vertical
2	960.000	34.63	-20.44	-13.27	46.00	-24.64	Peak	Vertical
3	972.483	37.35	-20.3	-12.86	54.00	-29.51	Peak	Vertical



MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	914.997	110.14	-14.04	96.10	46.00	50.10	Peak	Horizontal
2	960.000	34.37	-13.27	21.10	46.00	-24.90	Peak	Horizontal
3	967.801	37.18	-13.01	24.17	46.00	-29.83	Peak	Horizontal

7.5 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
Limit:

Frequency(MHz)	Field strength (microvolts/meter)	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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

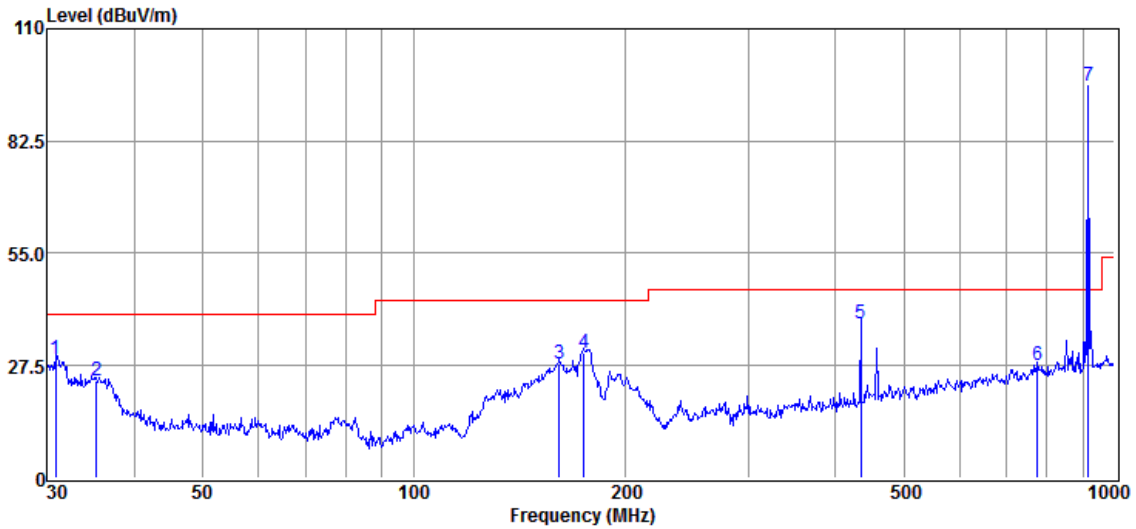
Test mode a:Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.5.2 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.

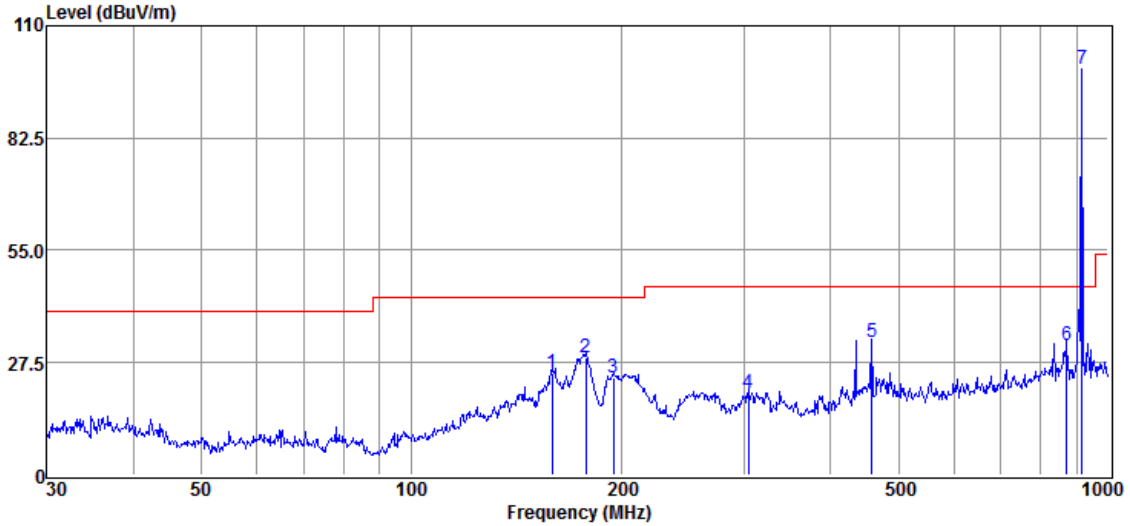
30MHz-1GHz:

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dB μ V)	(dB/m)	(dB)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
1	30.853	55.73	15.40	42.37	0.50	29.26	40.00	-10.74	QP
2	35.251	49.93	15.86	42.35	0.24	23.68	40.00	-16.32	QP
3	161.474	55.93	12.89	42.22	1.46	28.06	43.50	-15.44	QP
4	175.037	59.48	11.75	42.20	1.60	30.63	43.50	-12.87	QP
5	434.065	60.72	15.87	41.81	3.12	37.90	46.00	-8.10	QP
6	776.878	43.59	21.55	41.99	4.30	27.45	46.00	-18.55	QP
7	916.069	101.06	22.85	41.61	4.72	87.02	Fundamental signal		

Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1	159.225	52.85	13.01	42.22	1.44	25.08	43.50	-18.42	QP
2	178.133	57.58	11.85	42.20	1.63	28.86	43.50	-14.64	QP
3	195.136	54.61	9.81	42.18	1.72	23.96	43.50	-19.54	QP
4	304.610	46.25	13.29	42.09	2.58	20.03	46.00	-25.97	QP
5	457.507	54.51	16.39	41.74	3.23	32.39	46.00	-13.61	QP
6	872.183	46.63	22.48	41.74	4.56	31.93	46.00	-14.07	QP
7	916.069	106.52	22.85	41.61	4.72	92.48	Fundamental signal		

Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.



Above 1GHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1830	57.78	-4.42	53.36	54	-0.64	peak	Horizontal
2	2745	44.12	-1.58	42.54	54	-11.46	peak	Horizontal
3	3660	44.30	2.59	46.89	54	-7.11	peak	Horizontal
4	1830	58.05	-4.42	53.63	54	-0.37	peak	Vertical
5	2745	46.35	-1.58	44.77	54	-9.23	peak	Vertical
6	3660	45.80	2.59	48.39	54	-5.61	peak	Vertical

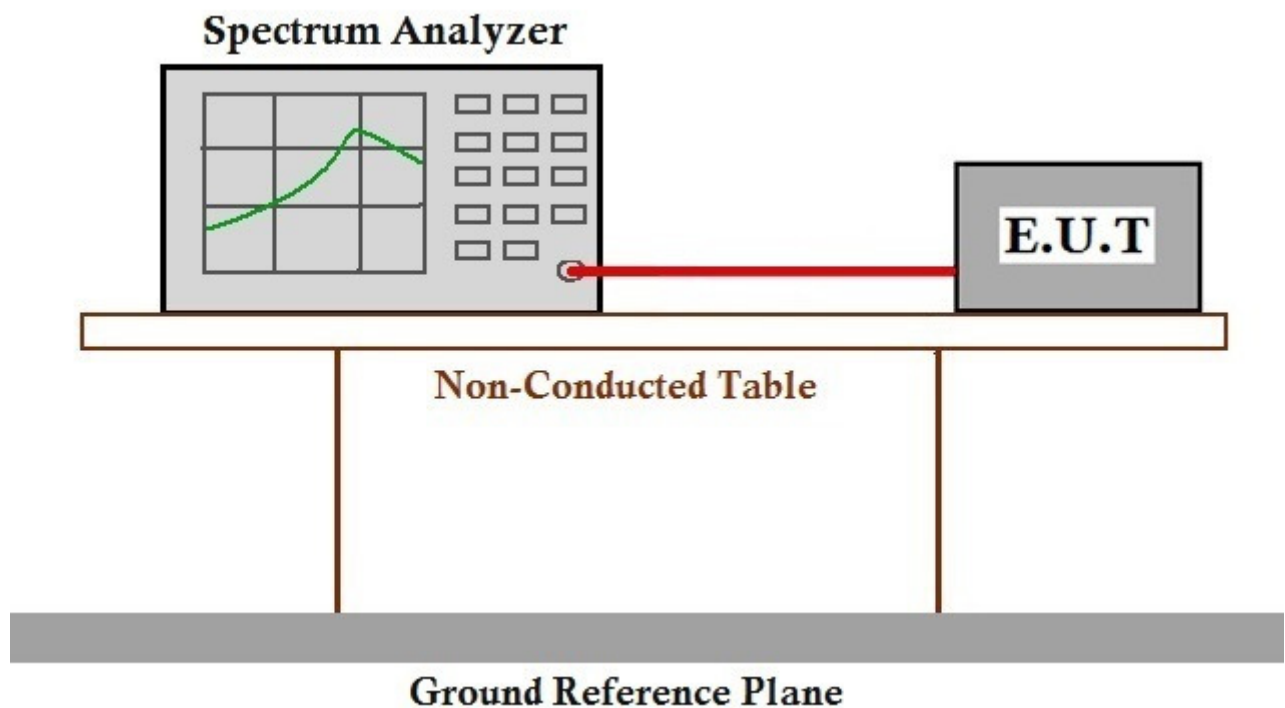
7.6 99% Bandwidth

Test Requirement RSS-Gen Section 6.6
Test Method: ANSI C63.10 Section 6.9.3

7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 20 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
Test mode a:Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

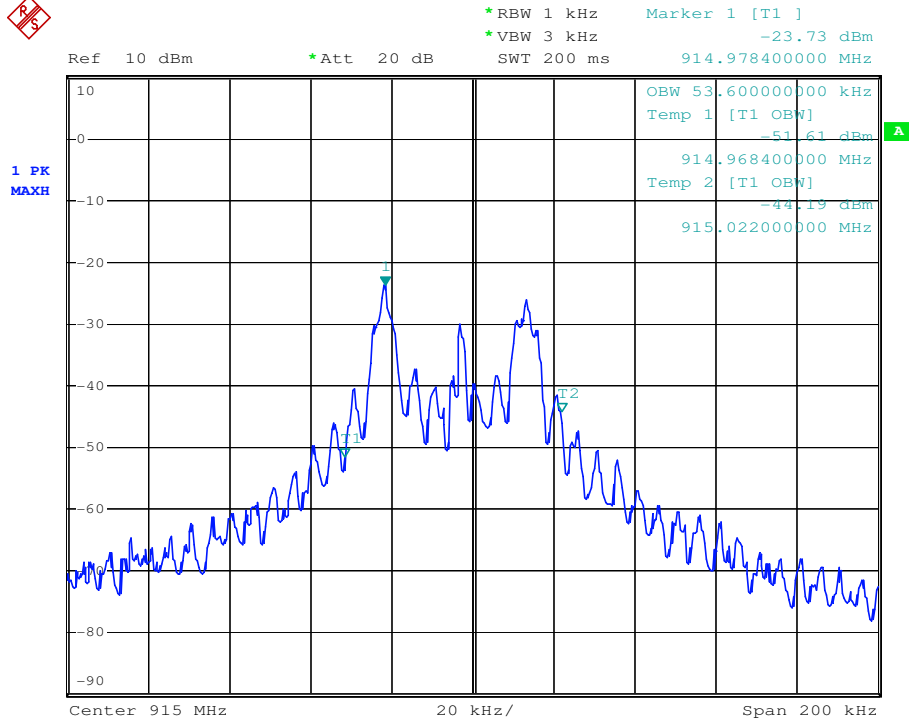
7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data



Frequency (MHz)	Bandwidth (MHz)	Result
915	0.054	PASS





8 Equipment Under Test Pictures

Refer to the < Test Setup Photos-FCC >

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -