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Shenzhen Branch

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1 Cover Page

RF TEST REPORT

Application No.:	SZEM1710011019CR (SHEM1706003867CR)
Applicant:	Hangzhou Ezviz Network Co., Ltd
FCC ID:	2ALZF-C3A
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Wire-free Indoor/Outdoor Battery Camera
Model No.(EUT):	CS-CV316
Standards:	FCC PART 15 Subpart C Section 15.249: 2016
Date of Receipt:	2017-06-19
Date of Test:	2017-06-20 to 2017-06-29
Date of Issue:	2017-10-26
Test Result:	**Pass***

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Jack Zhang
EMC Laboratory 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.

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00	/	2017-10-26	/	Original

Authorized for issue by:				
Engineer		Foray Chen **Foray Chen /Project Engineer**		2017-06-29 **Date**
Reviewer		Eric Fu **Eric Fu /Reviewer**		2017-10-26 **Date**

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	ANSI C63.10 (2013) Section 6.2	N/A
Field Strength of the Fundamental Signal	FCC Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013) Section 6.11	PASS
Radiated Spurious Emissions	FCC Part 15, Subpart C Section 15.249 (a) &15.209&15.205	ANSI C63.10 (2013) Section 6.4&6.5&6.6&6.10	PASS
20dB Bandwidth	FCC Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013) Section 6.9	PASS

N/A: Not applicable, please refer to Section 6.3 of this report for details.

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4 General Information

4.1 Client Information

Applicant:	Hangzhou Ezviz Network Co., Ltd
Address of Applicant:	Floor 7, Building 1, No.700, Dongliu Road, Binjiang District, Hangzhou
Manufacturer:	Hangzhou Ezviz Network Co., Ltd
Address of Manufacturer:	Floor 7, Building 1, No.700, Dongliu Road, Binjiang District, Hangzhou
Factory:	Hangzhou Hikvision Electronics Co., Ltd.
Address of Factory:	No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou.

4.1 General Description of E.U.T.

Brand Name:	eZVIZ
Product Description:	Fixed product with 915MHz function
Rated Input:	DC 12V by Lithium battery*4 Remark: Supply the EUT with new battery during the testing.
Test Voltage:	DC 12V

4.2 Technical Specifications

Operation Frequency:	902MHz-928MHz (906MHz, 908MHz, 910MHz, 912MHz, 914MHz, 916MHz, 918MHz, 920MHz, 922MHz, 924MHz)
Modulation Technique:	FSK
Channel Space:	2MHz
Number of Channel:	10
Antenna Type	Integral Antenna

4.3 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Supplied by
Laptop	Lenovo	ThinkPad X 100e	SGS
Serial port adapter plate	/	Test Plate 3	SGS

Software name	Manufacturer	Version	Supplied By
SecureCRT	VanDyke	V 6.2.0	SGS

4.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting, and select channel and modulation type

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.
Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

4.6 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

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.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.
Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.7 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10^{-5}
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (30MHz – 1GHz) < ±6 dB (above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %

5 Equipments Used during Test

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-04-24	2018-04-23
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-07-03	2018-07-02
Power meter	R&S	NRP	SHEM057-1	2016-12-29	2017-12-28
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2016-12-29	2017-12-28
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-07-03	2018-07-02
Communication Tester	R&S	CMW500	SHEM183-1	2017-07-03	2018-07-02
Switcher	Tonscend	JS0806	SHEM184-1	/	/
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-13	2018-09-12
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-01-14	2018-01-13
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-01-14	2018-01-13
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-09-26	2018-09-25
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-04-24	2018-04-23
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2018-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2018-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2018-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2016-09-24	2018-09-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2018-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-02-13	2018-01-15
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-26.5GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21
RE test Cable	/	RE01, RE02, RE06	/	2016-12-29	2017-12-28

6 Test Results

6.1 E.U.T. test conditions

Test Voltage: AC 120V 60Hz

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:

Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102.0 kPa

6.2 Antenna Requirement

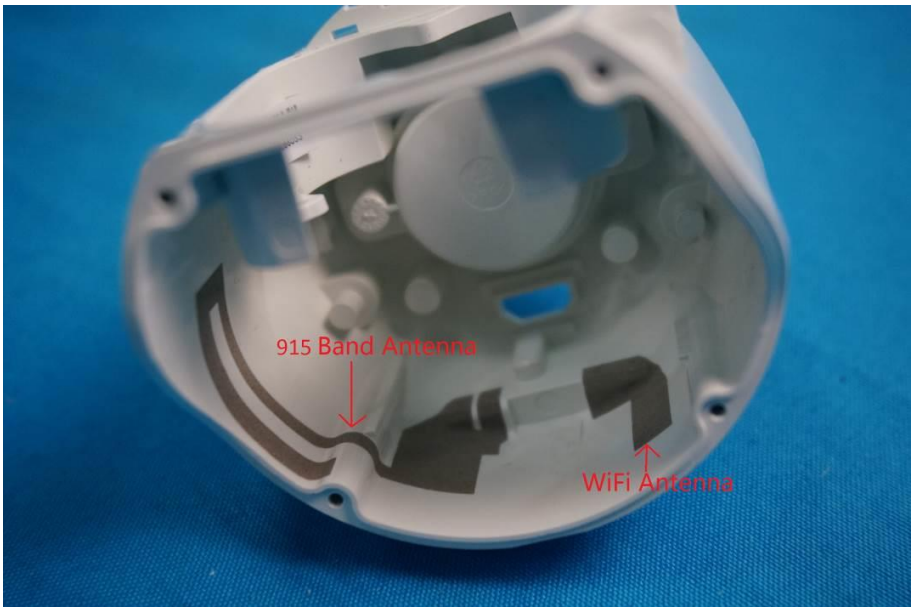
Standard requirement:

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

EUT Antenna:

The antenna is Integral Antenna and no consideration of replacement.



6.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

Class/Severity: Class B

Limit:

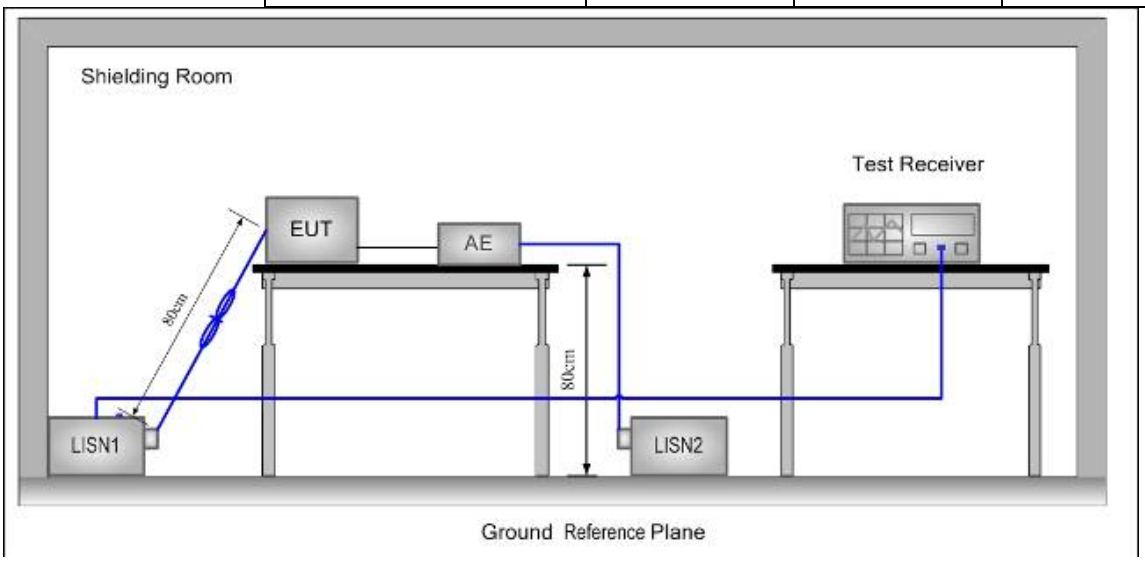
Frequency range MHz	Class B Limits: dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test site/setup: Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
9KHz to 150Hz	Quasi-peak	200Hz	500Hz
150KHz to 30MHz	Quasi-peak	9kHz	30kHz



Test Procedure:

1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN 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, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

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 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Please see the attached Quasi-peak and Average test results.

Test Result: N/A

Test Data:

N/A: This EUT in working mode is powered by battery only; therefore the AC Conducted Emission test is not applicable.

6.4 Field Strength of the Fundamental Signal

Test Site: Measurement Distance: 3m

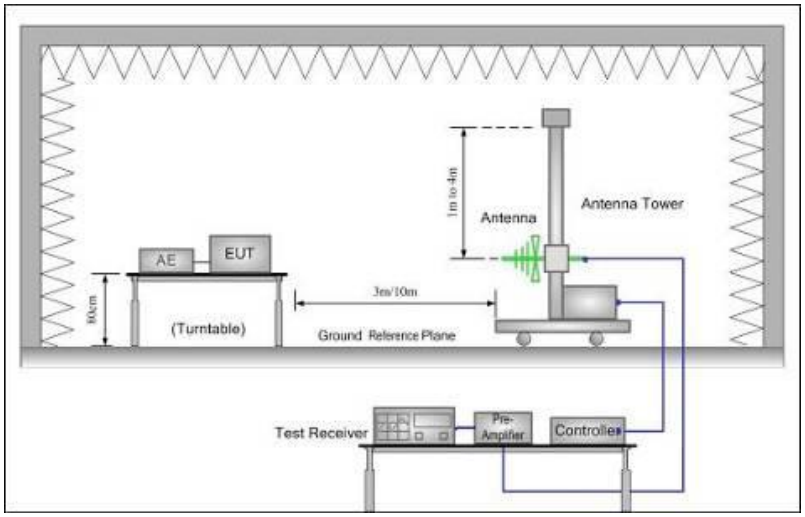
Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

Frequency	Limit (dBuV/m)	Remark
902-928 MHz	114	Peak
	94	Quasi-Peak

Test Setup:



Test Procedure:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Results: Pass

Measurement Data

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
906	108.07	-16.63	91.44	94	-2.56	Peak	Horizontal
	102.87	-16.63	86.24	94	-7.76	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
914	107.85	-16.43	91.42	94	-2.58	Peak	Horizontal
	98.45	-16.43	82.02	94	-11.98	Peak	Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
924	107.97	-16.22	91.75	94	-2.25	Peak	Horizontal
	94.08	-16.22	77.86	94	-16.14	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)
2) If the Peak value below the Quasi-Peak Limit, the Quasi-Peak test doesn't perform for this submission.

6.5 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 10GHz

Test site/setup: Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009MHz-0.490MHz	2400/F(KHz)	128.5 ~ 93.8
0.490MHz-1.705MHz	24000/F(KHz)	73.8 ~63.0
1.705MHz-30MHz	30	69.5
30MHz-88MHz	100	40.0
88MHz-216MHz	150	43.5
216MHz-960MHz	200	46.0
960MHz-1GHz	500	54.0
Above 1GHz	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Configuration: Receive antenna scan height 1 m - 4 m. polarization Vertical / Horizontal

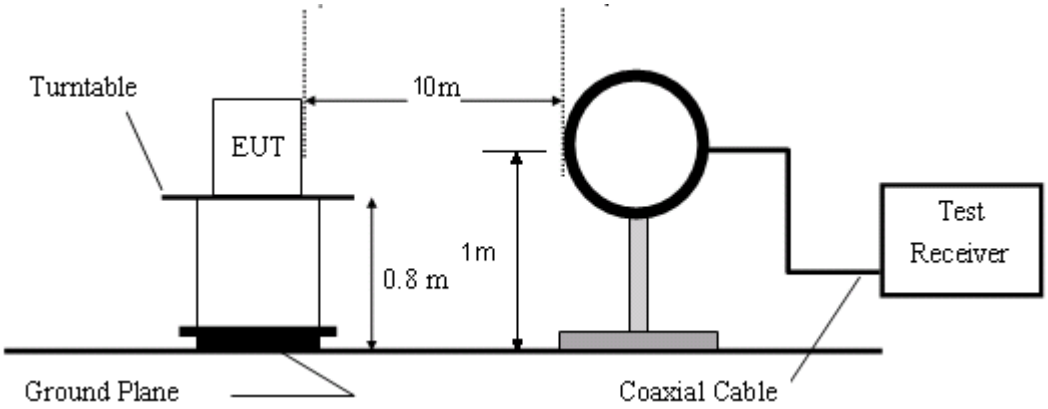


Figure1. Blow 30MHz radiated emissions test configuration

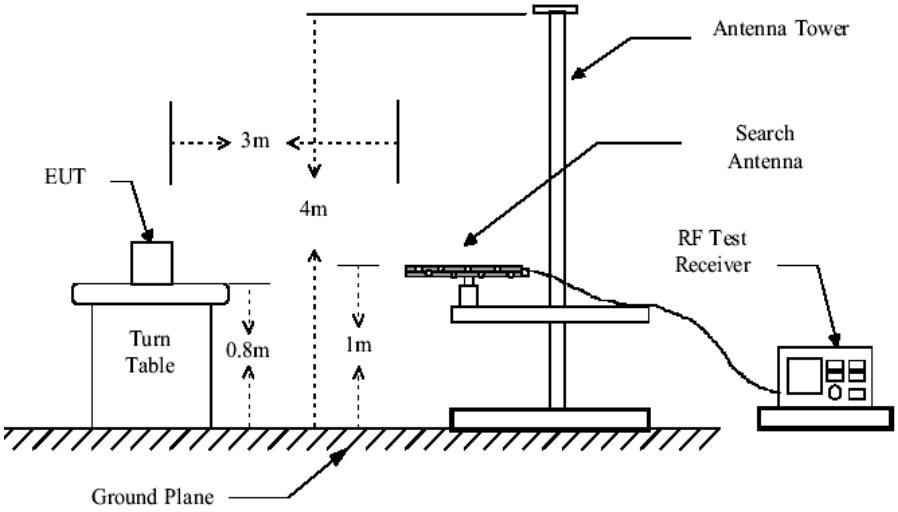


Figure2. 30MHz to 1GHz radiated emissions test configuration

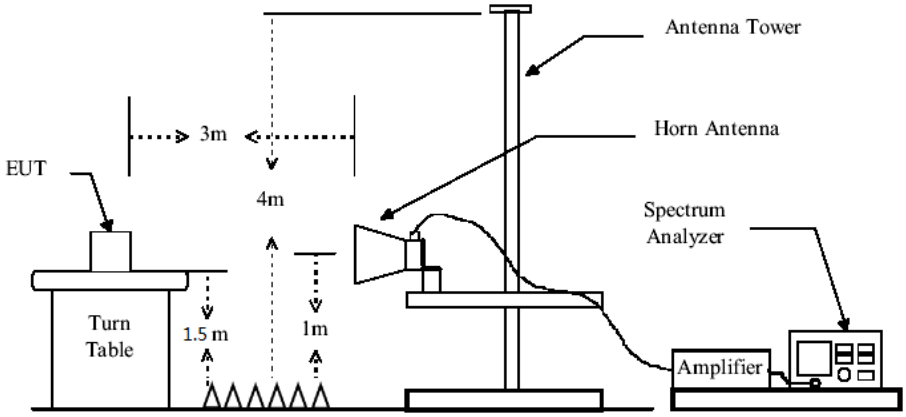


Figure3. Above 1GHz radiated emissions test configuration

Test Procedure: The procedure used was ANSI Standard C63.10. The receiver was scanned from 9KHz to 10GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz.

Between 1G and 3GHz, we did not use any amplifier or filter.

Pre-test was performed on Antenna A and Antenna B mode, Compliance test was performed on worse case (Antenna A mode).

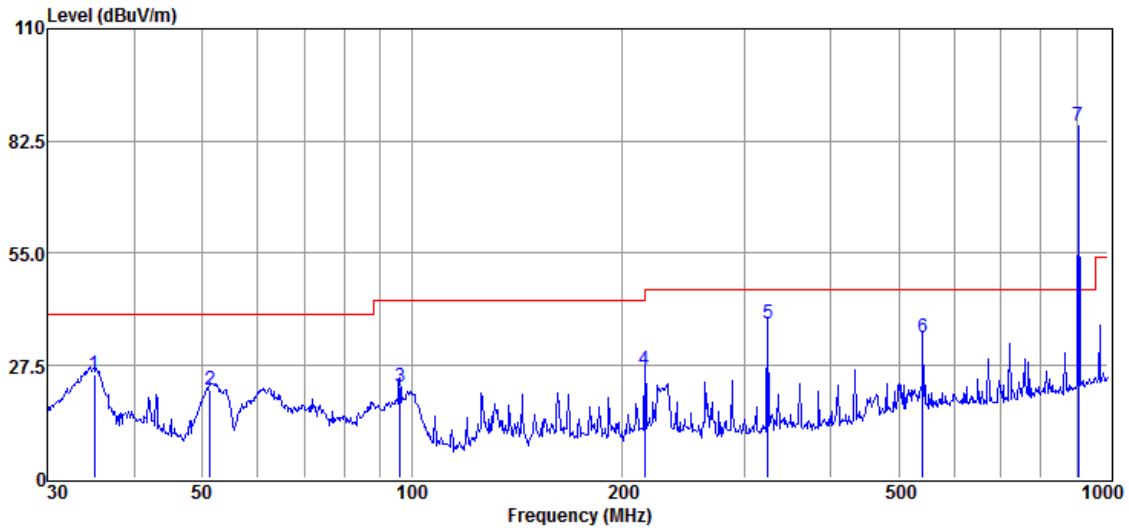
Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.

1) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
2) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Test Result: Pass

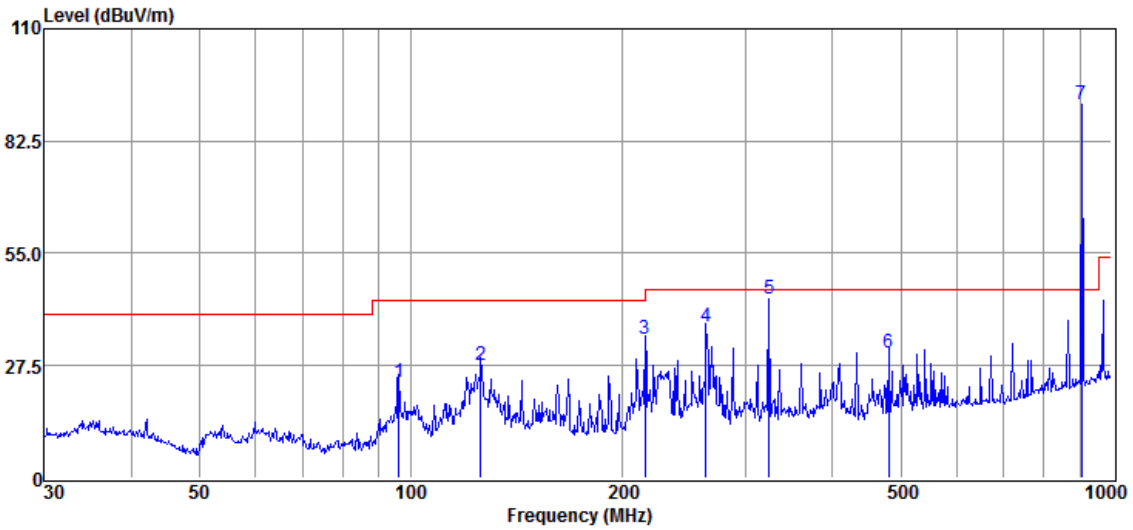
6.5.1 Radiated Spurious Emissions

30MHz-1GHz:
Vertical:



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	35.01	51.90	15.84	42.61	0.20	25.33	40.00	-14.67	QP
2	51.30	53.09	10.87	42.64	0.26	21.58	40.00	-18.42	QP
3	96.10	55.68	8.99	42.69	0.44	22.42	43.50	-21.08	QP
4	216.02	58.28	10.12	42.50	0.72	26.62	46.00	-19.38	QP
5	324.46	65.57	13.71	42.32	0.88	37.84	46.00	-8.16	QP
6	541.37	57.17	18.17	42.16	1.25	34.43	46.00	-11.57	QP
7	906.48	102.87	22.77	41.85	2.45	86.24	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	96.10	56.54	8.99	42.69	0.44	23.28	43.50	-20.22	QP
2	125.89	58.05	11.70	42.67	0.56	27.64	43.50	-15.86	QP
3	216.02	65.53	10.12	42.50	0.72	33.87	46.00	-12.13	QP
4	263.82	66.52	11.99	42.44	0.79	36.86	46.00	-9.14	QP
5	324.46	71.72	13.71	42.32	0.88	43.99	46.00	-2.01	QP
6	480.53	54.73	16.83	42.14	1.15	30.57	46.00	-15.43	QP
7	906.48	108.07	22.77	41.85	2.45	91.44	Fundamental signal		

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

Above 1GHz:
906MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1865	35.83	-4.18	31.65	54	-22.35	peak	Horizontal
2	3310	38.99	1.8	40.79	54	-13.21	peak	Horizontal
3	3950	39.1	2.8	41.9	54	-12.1	peak	Horizontal
4	3070	41.47	0.14	41.61	54	-12.39	peak	Vertical
5	3595	43.33	2.56	45.89	54	-8.11	peak	Vertical
6	4395	38.38	3.36	41.74	54	-12.26	peak	Vertical

914MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1870	40.44	-4.15	36.29	54	-17.71	peak	Horizontal
2	3155	41.72	0.63	42.35	54	-11.65	peak	Horizontal
3	3575	41.01	2.54	43.55	54	-10.45	peak	Horizontal
4	1965	32.9	-3.53	29.37	54	-24.63	peak	Vertical
5	3305	37.97	1.79	39.76	54	-14.24	peak	Vertical
6	3910	38.3	2.9	41.2	54	-12.8	peak	Vertical

924MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1870	37.08	-4.15	32.93	54	-21.07	peak	Horizontal
2	3195	40.62	0.83	41.45	54	-12.55	peak	Horizontal
3	3570	40.44	2.54	42.98	54	-11.02	peak	Horizontal
4	1865	42.84	-4.18	38.66	54	-15.34	peak	Vertical
5	3045	41.58	-0.05	41.53	54	-12.47	peak	Vertical
6	4185	37.91	3.81	41.72	54	-12.28	peak	Vertical

Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2. No any other emission which falls in restricted bands can be detected and be reported.

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

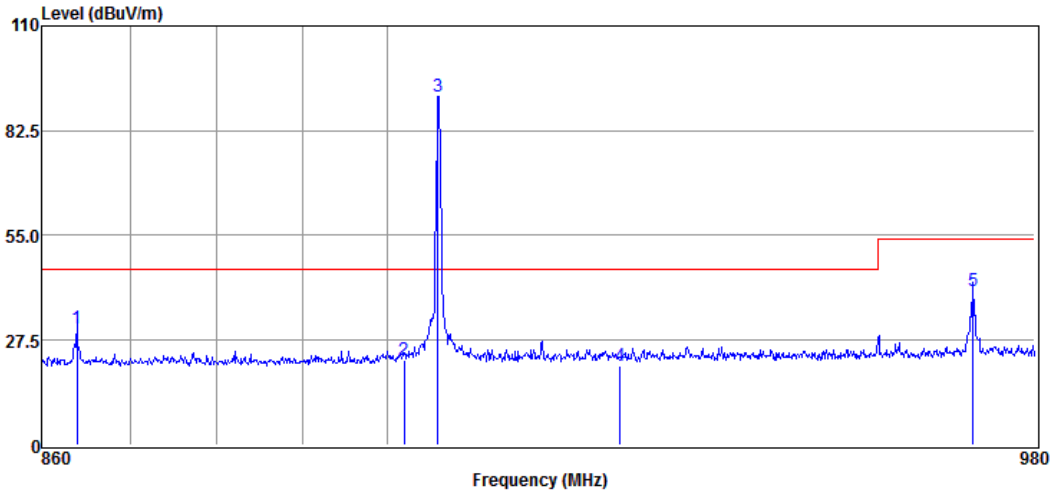
All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

6.5.2 Radiated Band edge

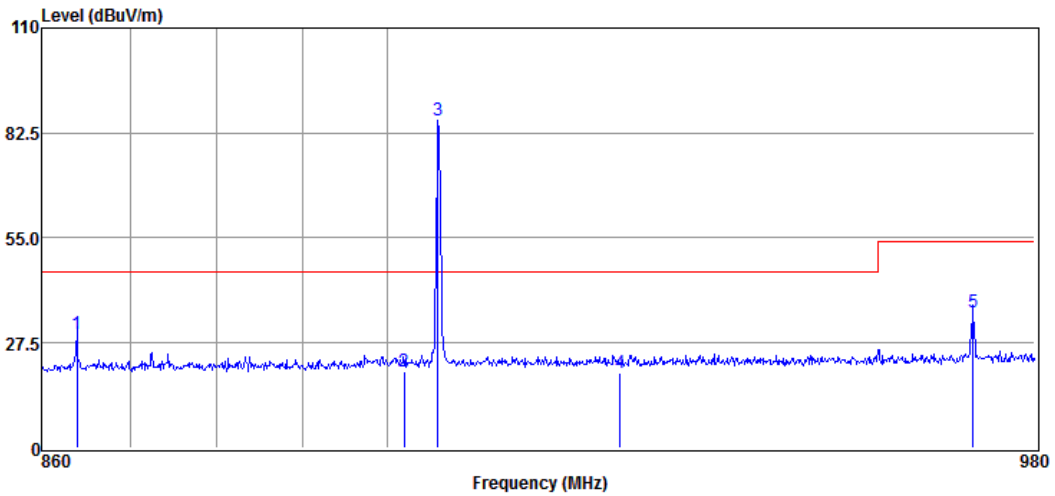
Channel: 906MHz

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	863.94	48.18	22.42	42.15	2.31	30.76	Peak	Horizontal
2	902.00	38.87	22.74	41.90	2.45	22.16	Peak	Horizontal
3	906.01	108.20	22.77	41.85	2.45	91.57	Peak	Horizontal
4	928.00	36.84	23.03	41.70	2.56	20.73	Peak	Horizontal
5	972.10	55.74	23.51	41.40	2.69	40.54	Peak	Horizontal
1	863.94	47.11	22.42	42.15	2.31	29.69	Peak	Vertical
2	902.00	36.81	22.74	41.90	2.45	20.10	Peak	Vertical
3	906.01	102.61	22.77	41.85	2.45	85.98	Peak	Vertical
4	928.00	35.91	23.03	41.70	2.56	19.80	Peak	Vertical
5	972.10	50.76	23.51	41.40	2.69	35.56	Peak	Vertical

Horizontal



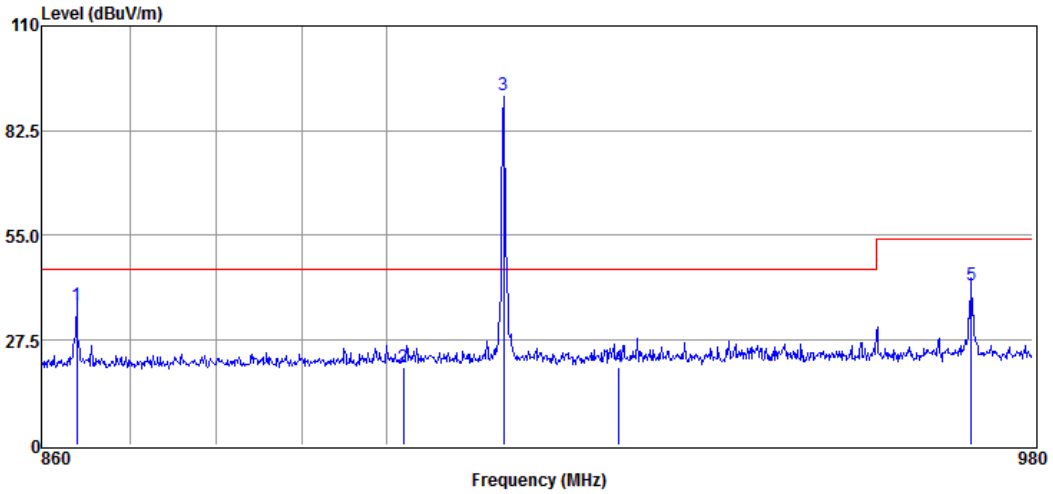
Vertical



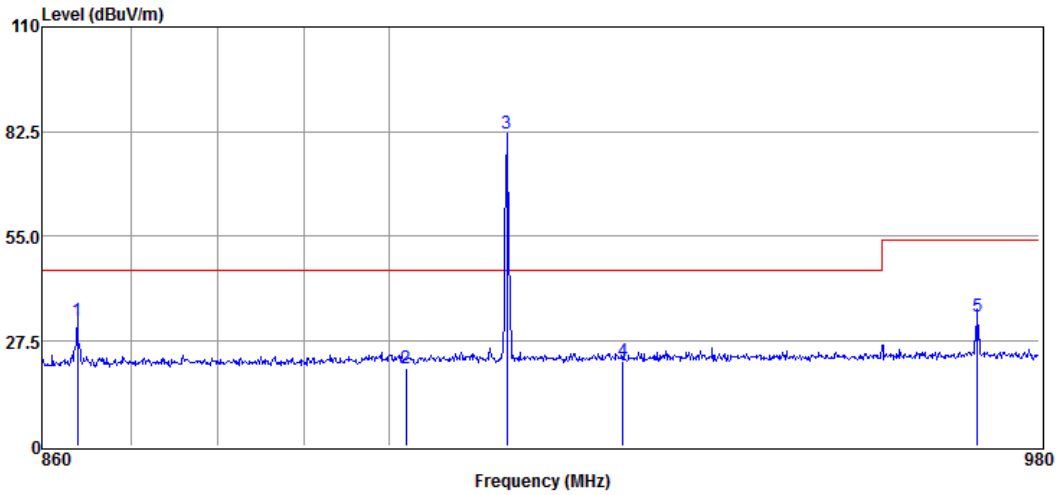
Channel: 914MHz

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	863.94	53.91	22.42	42.15	2.31	36.49	Peak	Horizontal
2	902.00	36.99	22.74	41.90	2.45	20.28	Peak	Horizontal
3	913.97	108.34	22.85	41.80	2.49	91.88	Peak	Horizontal
4	928.00	36.43	23.03	41.70	2.56	20.32	Peak	Horizontal
5	972.10	57.05	23.51	41.40	2.69	41.85	Peak	Horizontal
1	863.94	50.43	22.42	42.15	2.31	33.01	Peak	Vertical
2	902.00	37.24	22.74	41.90	2.45	20.53	Peak	Vertical
3	913.97	98.51	22.85	41.80	2.49	82.05	Peak	Vertical
4	928.00	38.49	23.03	41.70	2.56	22.38	Peak	Vertical
5	972.10	49.09	23.51	41.40	2.69	33.89	Peak	Vertical

Horizontal



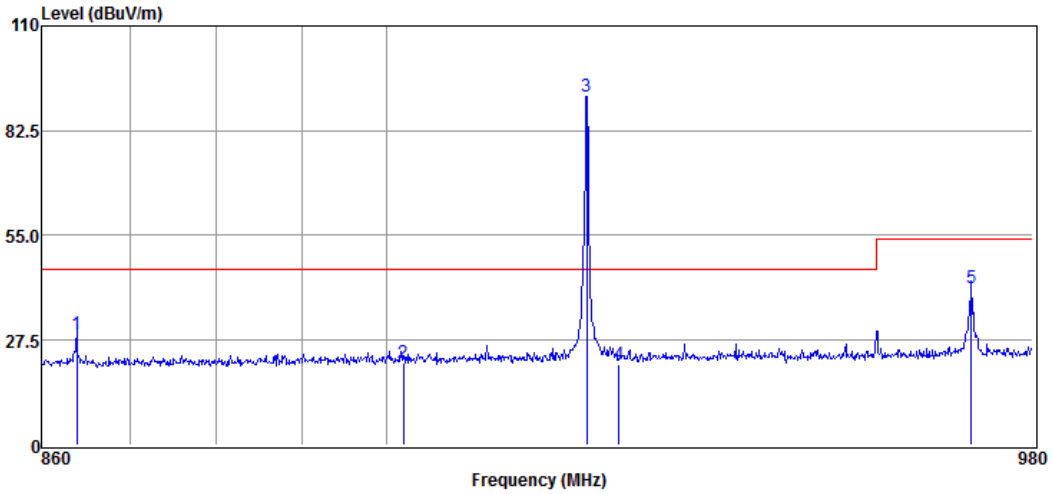
Vertical



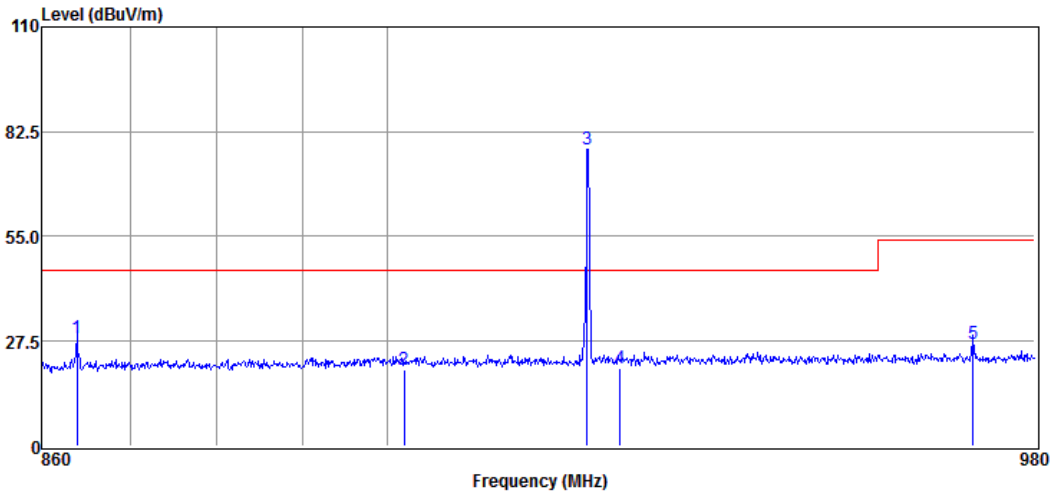
Channel: 924MHz

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	863.94	46.61	22.42	42.15	2.31	29.19	Peak	Horizontal
2	902.00	38.28	22.74	41.90	2.45	21.57	Peak	Horizontal
3	924.06	107.90	22.96	41.70	2.49	91.65	Peak	Horizontal
4	928.00	37.18	23.03	41.70	2.56	21.07	Peak	Horizontal
5	972.10	56.38	23.51	41.40	2.69	41.18	Peak	Horizontal
1	863.94	45.70	22.42	42.15	2.31	28.28	Peak	Vertical
2	902.00	36.70	22.74	41.90	2.45	19.99	Peak	Vertical
3	923.94	94.27	22.96	41.70	2.49	78.02	Peak	Vertical
4	928.00	36.52	23.03	41.70	2.56	20.41	Peak	Vertical
5	972.10	42.20	23.51	41.40	2.69	27.00	Peak	Vertical

Horizontal



Vertical



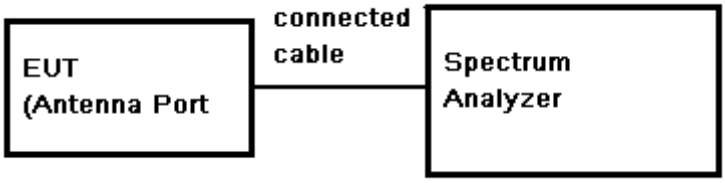
Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

1. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

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	10.5 - 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 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

6.6 20dB Bandwidth

Test Configuration:



Test Procedure:

1. Place the EUT on the table and set it in 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 = approximately 1 % to 5 % of the OBW (set 3 kHz), VBW =3* RBW, Span=1MHz, Sweep=auto
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured was complete.

Limit: N/A

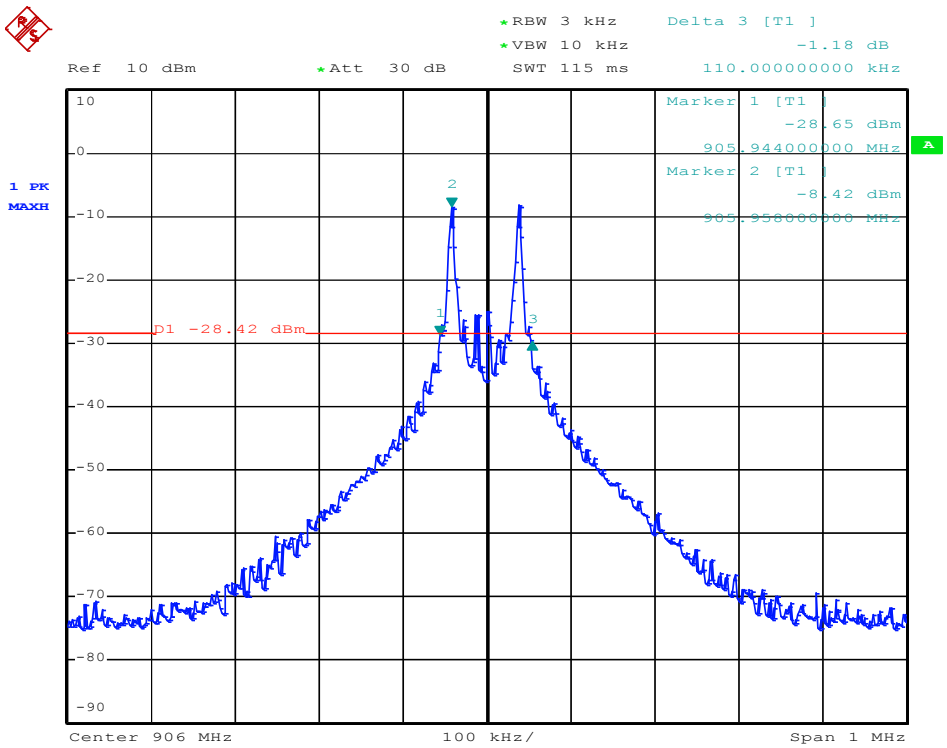
Test Result: Pass

Test Data:

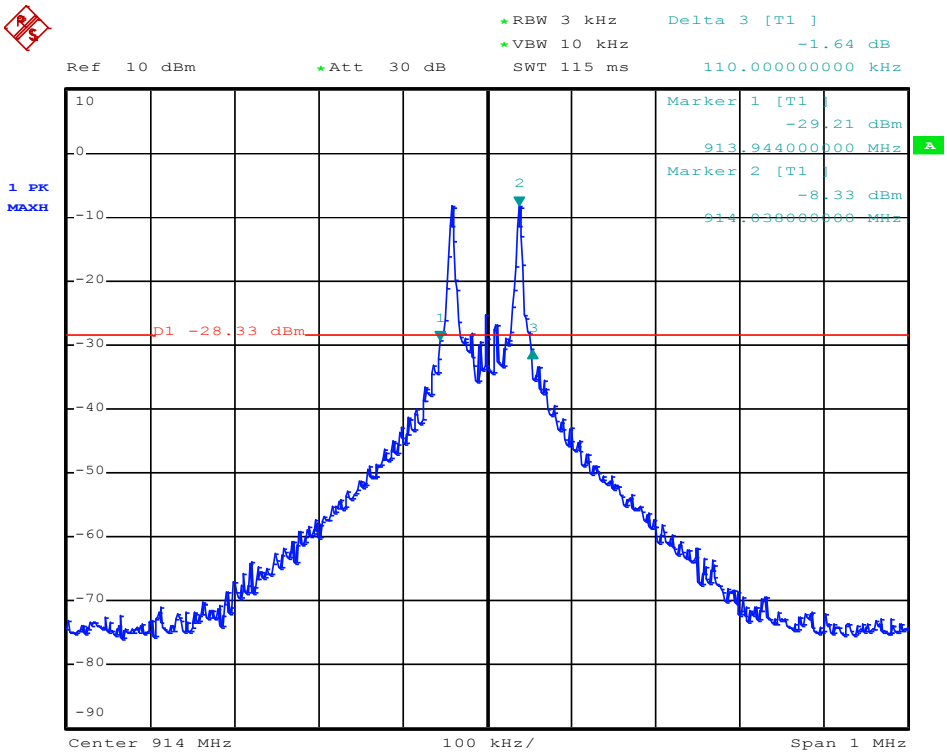
Frequency (MHz)	Bandwidth (kHz)	Result
906	110	PASS
914	110	PASS
924	110	PASS

Test plot as follows:

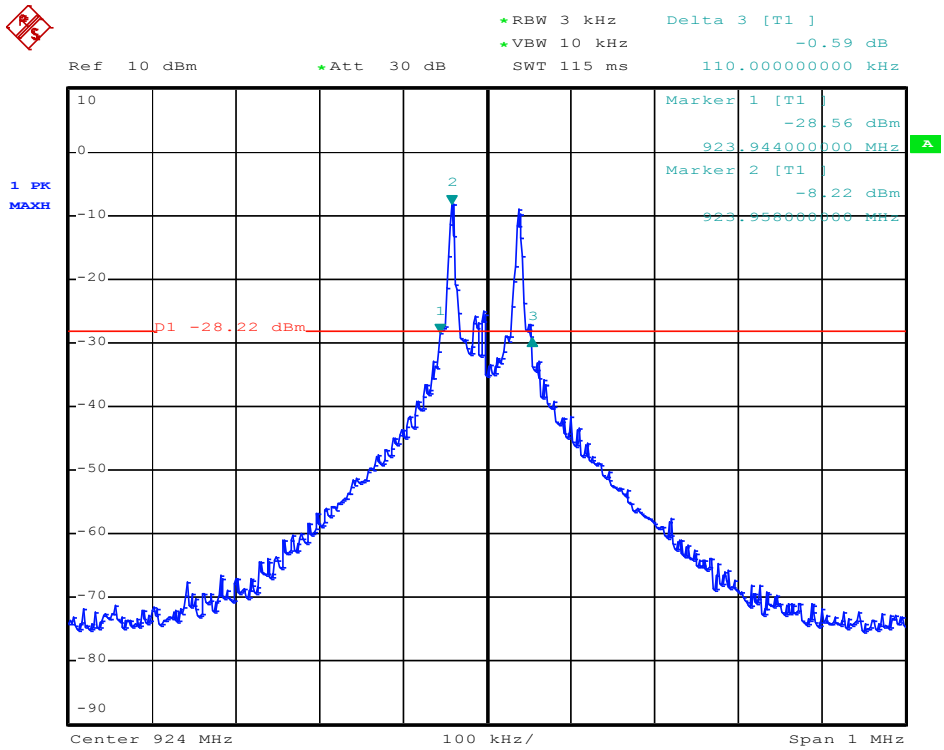
906MHz:



914MHz:



924MHz:



7 Test Setup Photographs

Refer to the < Test Setup photos>.

8 EUT Constructional Details

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

--End of the Report--