TEST REPORT

Application No.:	KSCR2201000132AT
FCC ID:	2A8TVWGWFSP58-II
IC:	29378-WGWFSP58II
Applicant:	WG security Products (shanghai) Inc.
Address of Applicant:	No.79 Wu Xiang Rd, Xuhang Town Jiading District 201808 Shanghai, China
Manufacturer:	SHANGHAI WINGUIDE DIGITAL TECHNOLGOY LTD.
Address of Manufacturer:	No.79 Wu Xiang Rd, Xuhang Town Jiading District 201808 Shanghai, China
Factory:	SHANGHAI WINGUIDE DIGITAL TECHNOLGOY LTD.
Address of Factory:	No.79 Wu Xiang Rd, Xuhang Town Jiading District 201808 Shanghai, China
Equipment Under Test (EUT):	
EUT Name:	WG WIFI Stealth PAD
Model No.:	WG WF SP58-II
Trade mark:	WG
Standard(s) :	47 CFR Part 15, Subpart C 15.209 RSS-210 Issue 10 Amendment (April 2020) RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2022-02-11
Date of Test:	2022-06-11 to 2022-09-05
Date of Issue:	2022-09-07
Test Result:	**Pass***

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

Eric Lin
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.

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Revision Record			
Version	**Description**	**Date**	**Remark**
00	Original	2022-09-07	/

Authorized for issue by:				
		Pawn. Liu		
		Pawn Liu/Project Engineer		
		Eric Lin		
		Eric Lin / Reviewer		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**FCC Requirement**	**IC Requirement**	**Method**	**Result**
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Section 6.8	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 15.207	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
20dB Bandwidth	FCC 15.215	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.9	Pass
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C 15.209	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C 15.209	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4&6.5	Pass
99% Bandwidth	N/A	RSS-210 Issue 10 Amendment (April 2020)	RSS-Gen Section 6.7	Pass

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 120V/60Hz
Test voltage:	AC 120V/60Hz
Antenna Type	Copper wire Antenna
Modulation Type	ASK
Number of Channels	1
Operation Frequency	58KHz
Serial Number:	S1000122/09 00001
Firmware Version:	V2.0.5-2.0.17

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

4.3 Measurement Uncertainty

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

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

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

4.5 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 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. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	01/31/2022	01/30/2023
2	LISN	R&S	ENV216	101604	10/18/2021	10/17/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/18/2021	10/17/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/31/2022	01/30/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021 04/15/2022	04/15/2022 04/14/2023
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/01/2021	11/30/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021 08/26/2022	08/26/2022 08/25/2023
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/18/2021	10/17/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/15/2022	04/14/2023
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2022	04/14/2023
10	Switcher	CCSRF	FY562	KUS2001M001-3	10/18/2021	10/17/2022
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/14/2022	04/13/2023
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/14/2022	04/13/2023
19	Thermometer	Anymetre	TH603	CCS007	10/15/2021	10/14/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/18/2021	10/17/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/21/2022	02/20/2023
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/21/2022	02/20/2023

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9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/14/2022	04/13/2023
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/22/2021	10/21/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz～5770 MHz）	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz～5930 MHz）	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz～5350 MHz）	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz～915 MHz）	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz～860 MHz）	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz～1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz～1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz～1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/14/2022	04/13/2023
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A

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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; RSS-Gen Section 6.8

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 Loop Antenna and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)

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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; RSS-Gen Section 8.8
Test Method: ANSI C63.10 (2013) Section 6.2
Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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: 25.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

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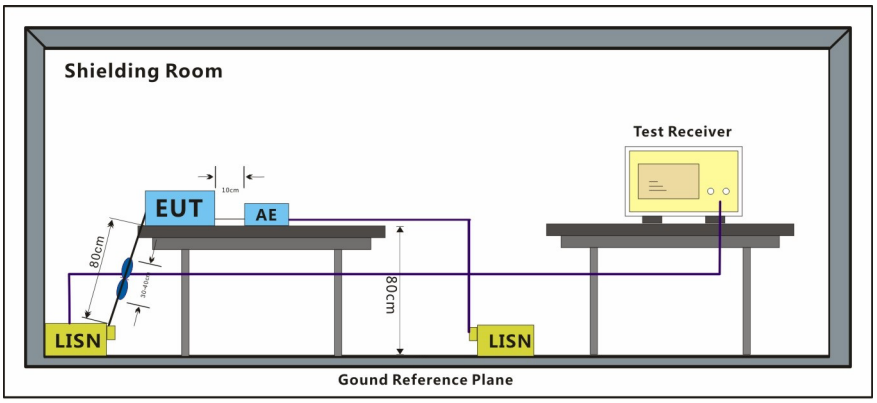
7.1.3 Test Setup Diagram



7.1.4 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

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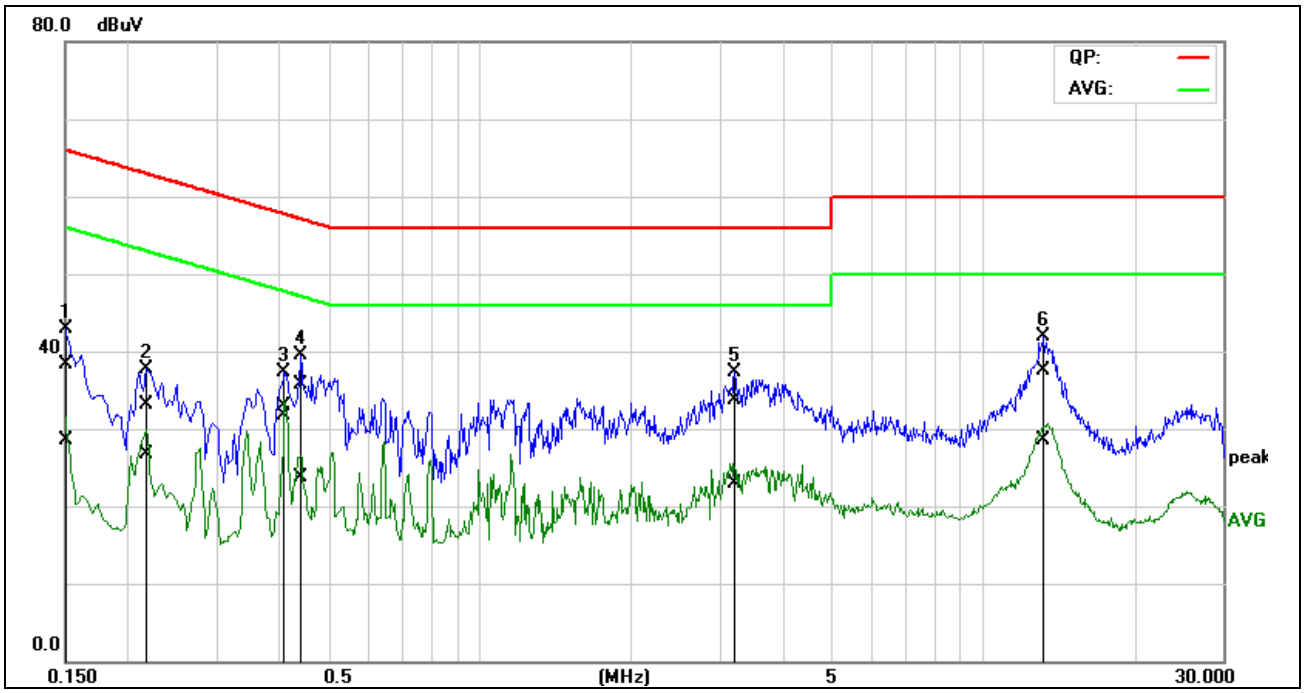
Mode:01 Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	18.75	9.06	19.50	38.25	28.56	66.00	56.00	-27.75	-27.44	Pass
2	0.2180	13.55	7.29	19.50	33.05	26.79	62.89	52.89	-29.84	-26.10	Pass
3*	0.4100	13.44	12.11	19.54	32.98	31.65	57.65	47.65	-24.67	-16.00	Pass
4	0.4420	16.14	4.11	19.55	35.69	23.66	57.02	47.02	-21.33	-23.36	Pass
5	3.2100	13.96	3.16	19.72	33.68	22.88	56.00	46.00	-22.32	-23.12	Pass
6	13.2380	17.44	8.38	20.14	37.58	28.52	60.00	50.00	-22.42	-21.48	Pass

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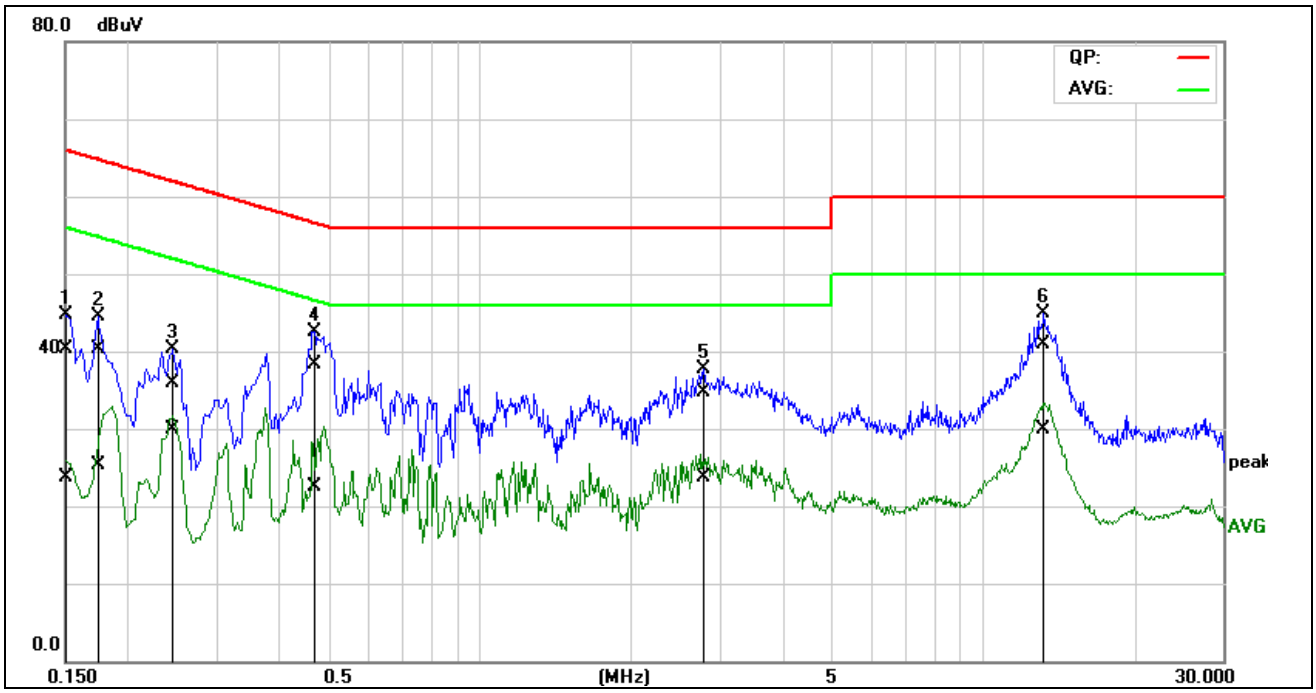
Mode:01 Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	20.78	4.20	19.48	40.26	23.68	66.00	56.00	-25.74	-32.32	Pass
2	0.1740	20.87	5.74	19.48	40.35	25.22	64.77	54.77	-24.42	-29.55	Pass
3	0.2460	16.47	10.39	19.49	35.96	29.88	61.89	51.89	-25.93	-22.01	Pass
4*	0.4700	18.70	3.03	19.55	38.25	22.58	56.51	46.51	-18.26	-23.93	Pass
5	2.7820	14.93	4.05	19.70	34.63	23.75	56.00	46.00	-21.37	-22.25	Pass
6	13.2340	20.71	9.85	20.14	40.85	29.99	60.00	50.00	-19.15	-20.01	Pass

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7.2 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215; RSS-210 Issue 10 Amendment (April 2020)
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	<200 kHz

7.2.1 E.U.T. Operation

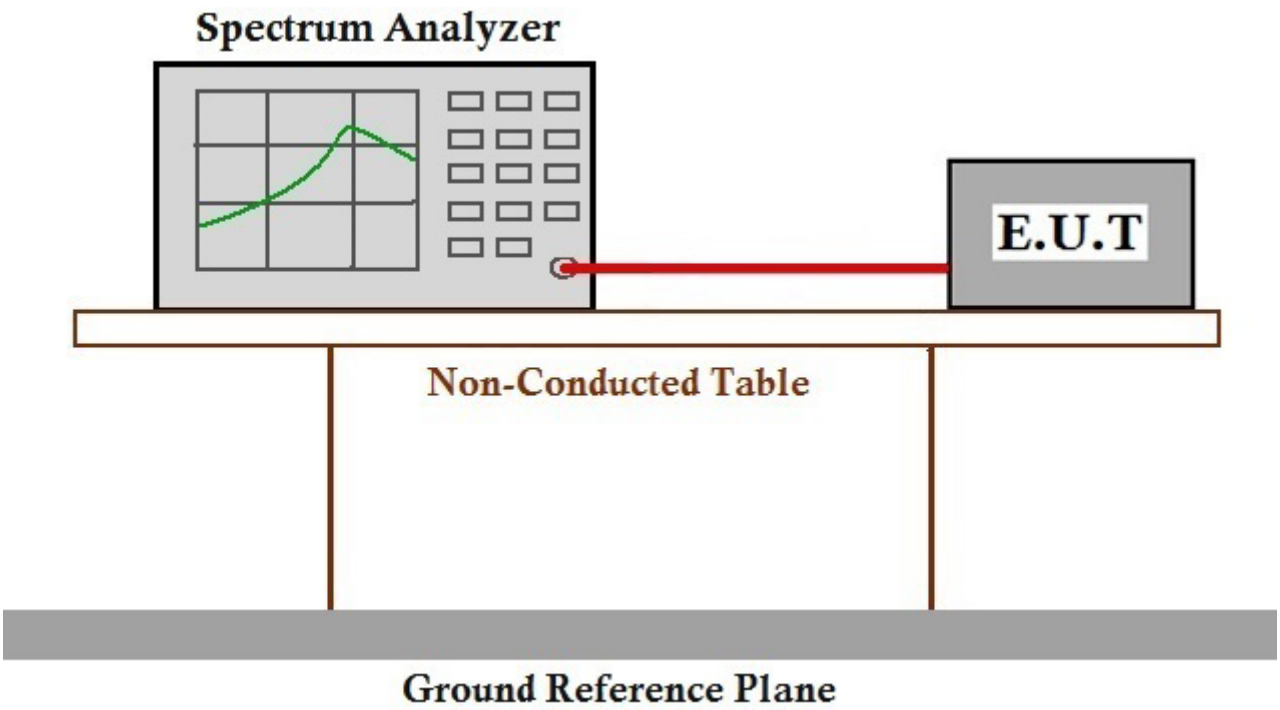
Operating Environment:

Temperature: 25.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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7.3 Radiated Emissions (9kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.209; RSS-210 Issue 10 Amendment (April 2020)

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

Measurement Distance: 3m

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

NOTE:

(1) For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is 40*log (D_{TEST} / D_{SPEC}) where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

Field strength limit (dBμV/m)@test distance= Field strength limit (dBμV/m)@specified distance +Distance Extrapolation Factor

(2) The lower limit shall apply at the transition frequencies.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

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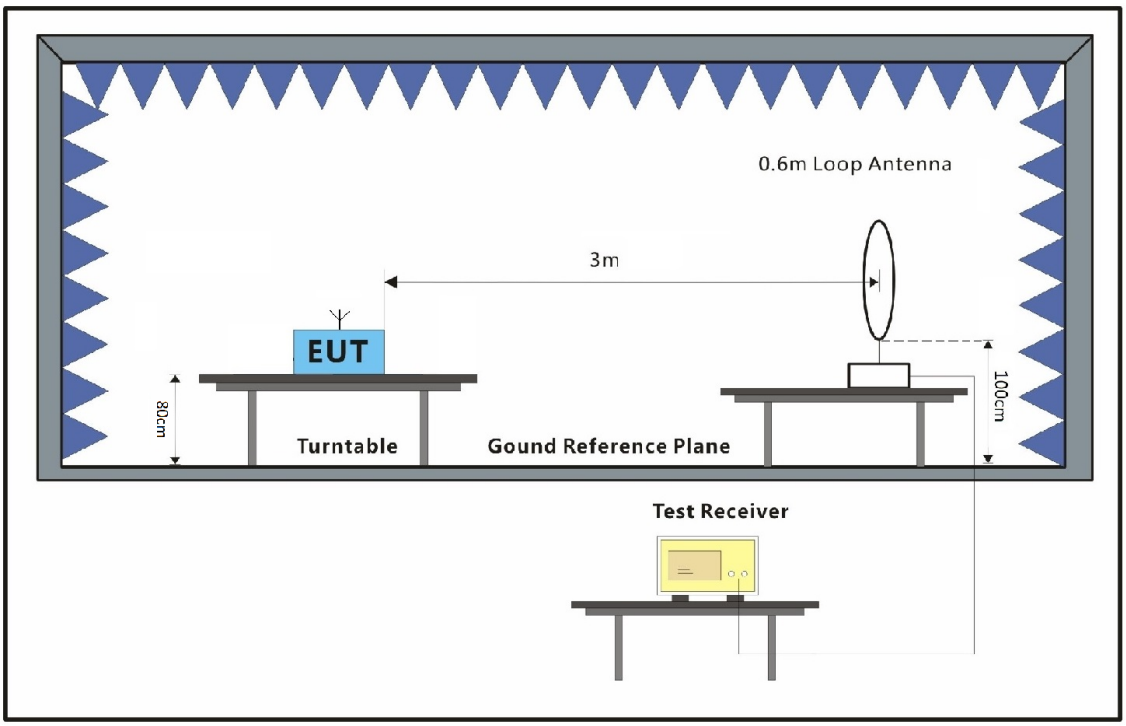
7.3.3 Test Setup Diagram



7.3.4 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.

Please Refer to Appendix for Details

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7.4 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.209; RSS-210 Issue 10 Amendment (April 2020)

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

Measurement Distance: 3m

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

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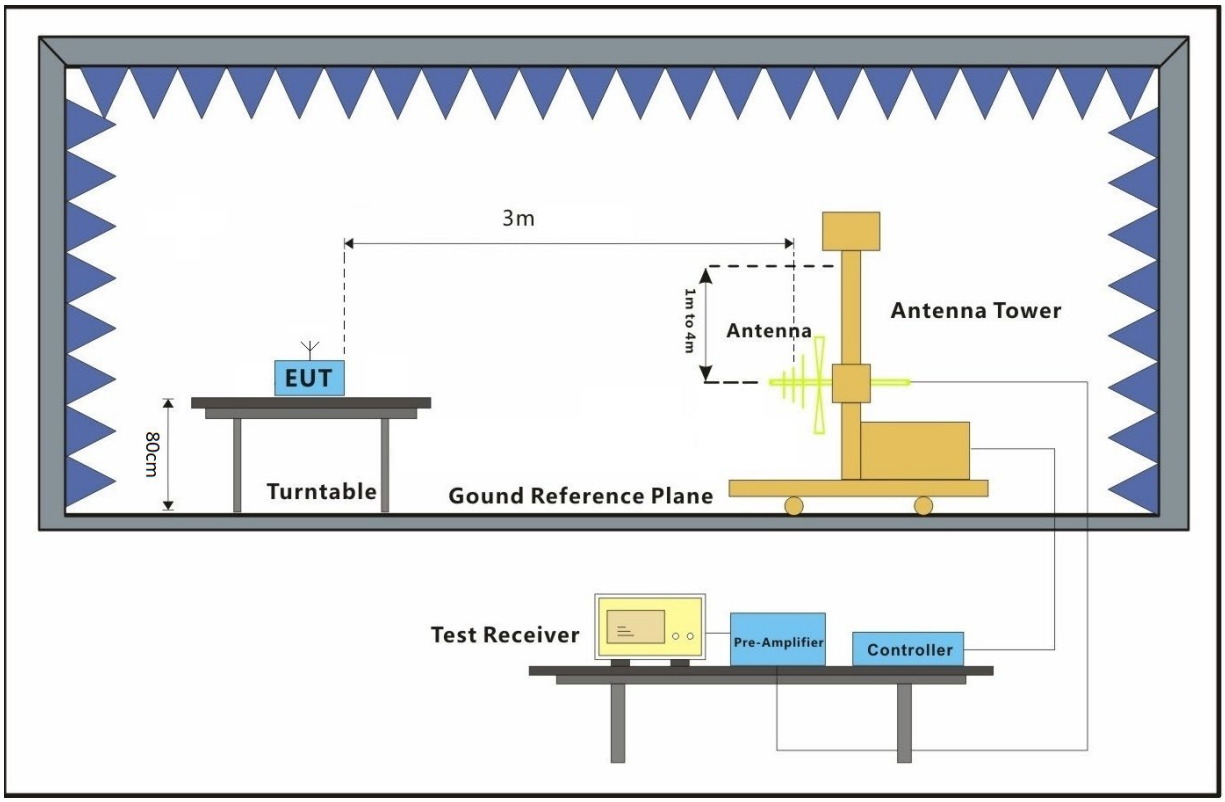
7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. 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.

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

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.

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

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

Please Refer to Appendix for Details

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7.5 99% Bandwidth

Test Requirement RSS-210 Issue 10 Amendment (April 2020)
Test Method: RSS-Gen Section 6.7

7.5.1 E.U.T. Operation

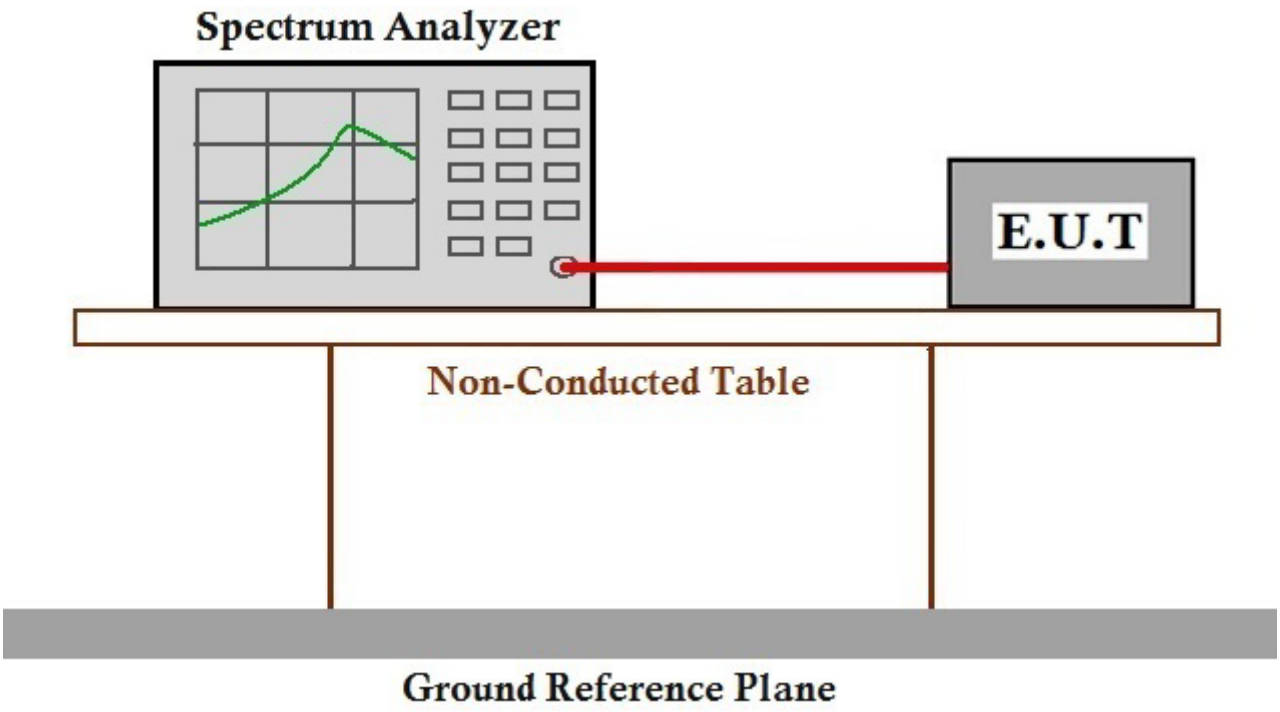
Operating Environment:
Temperature: 25.0 °C Humidity: 52.7 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3

7.5.4



7.5.5 Measurement Procedure and Data

Please Refer to Appendix for Details

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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

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

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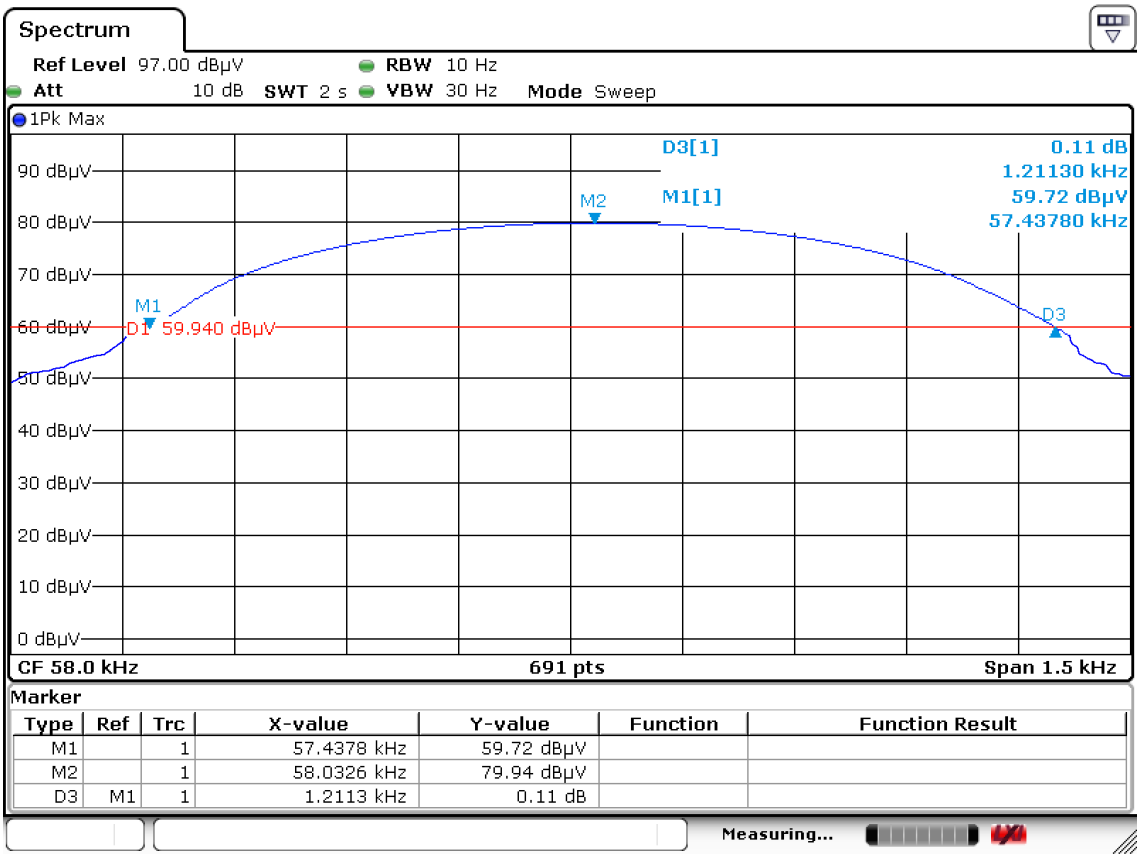
Appendix B for KSCR2201000132AT

1. 20dB Bandwidth

20dB bandwidth (KHz)	Result
1.2113	Pass

Test plot as follows:



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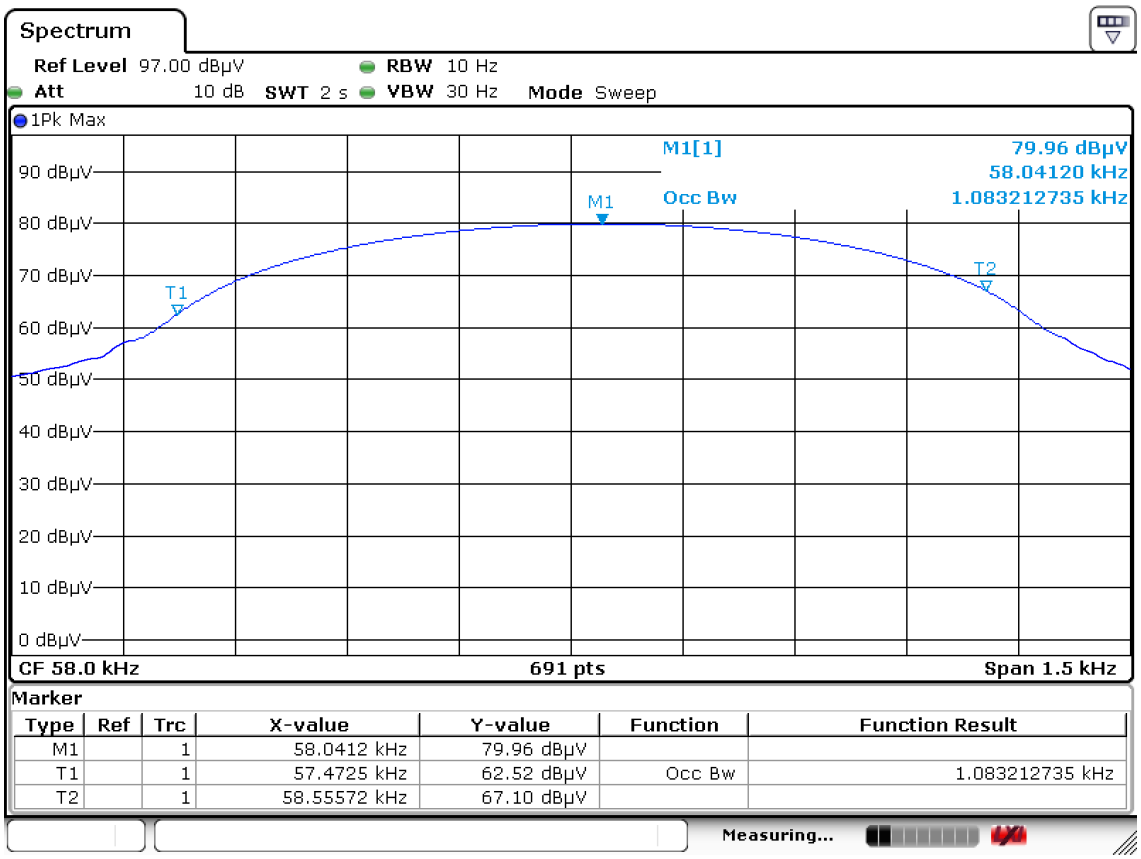
2. 99% Bandwidth

99% bandwidth (KHz)	F_L (KHZ)	F_H (KHZ)	Result
1.0832	57.4725	58.5557	Pass

Test plot as follows:



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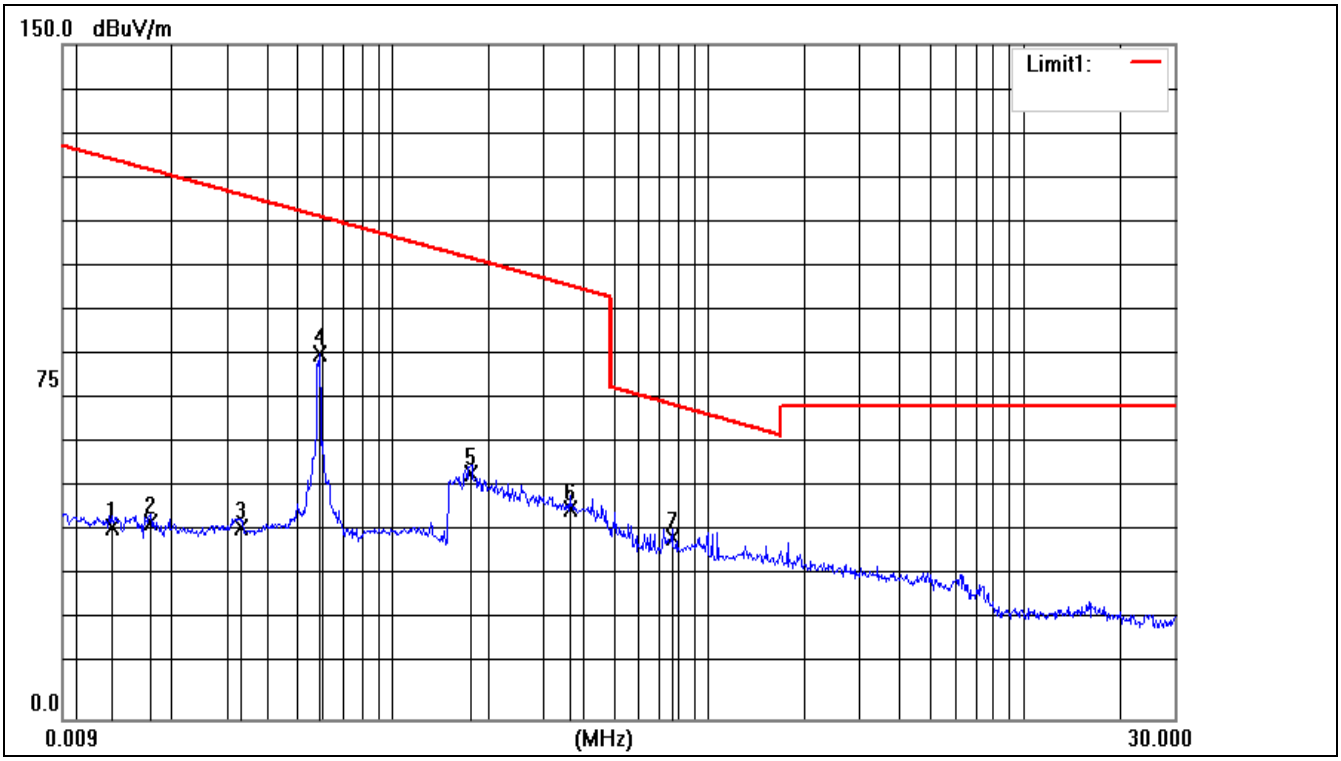
3. Radiated Emissions(9kHz-30MHz)

Horizontal



No.	Frequency	Reading	Correct	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0130	26.41	15.97	42.38	-37.62	44.41	-82.03	QP
2	0.0171	27.75	15.92	43.67	-36.33	42.09	-78.42	QP
3	0.0330	26.83	15.74	42.57	-37.43	36.55	-73.98	QP
4	0.0582	65.54	15.47	81.01	1.01	31.77	-30.76	peak
5	0.1758	40.07	14.45	54.52	-25.48	22.44	-47.92	QP
6	0.3634	32.40	14.43	46.83	-33.17	16.32	-49.49	QP
7	0.7670	25.85	14.39	40.24	0.24	29.92	-29.68	QP

Remark:

The Distance Extrapolation Factor in dB is 40*log (D_{TEST} / D_{SPEC}) where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

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Field strength limit (dBμV/m) @ test distance= Field strength limit (dBμV/m) @ specified distance -Distance Extrapolation Factor

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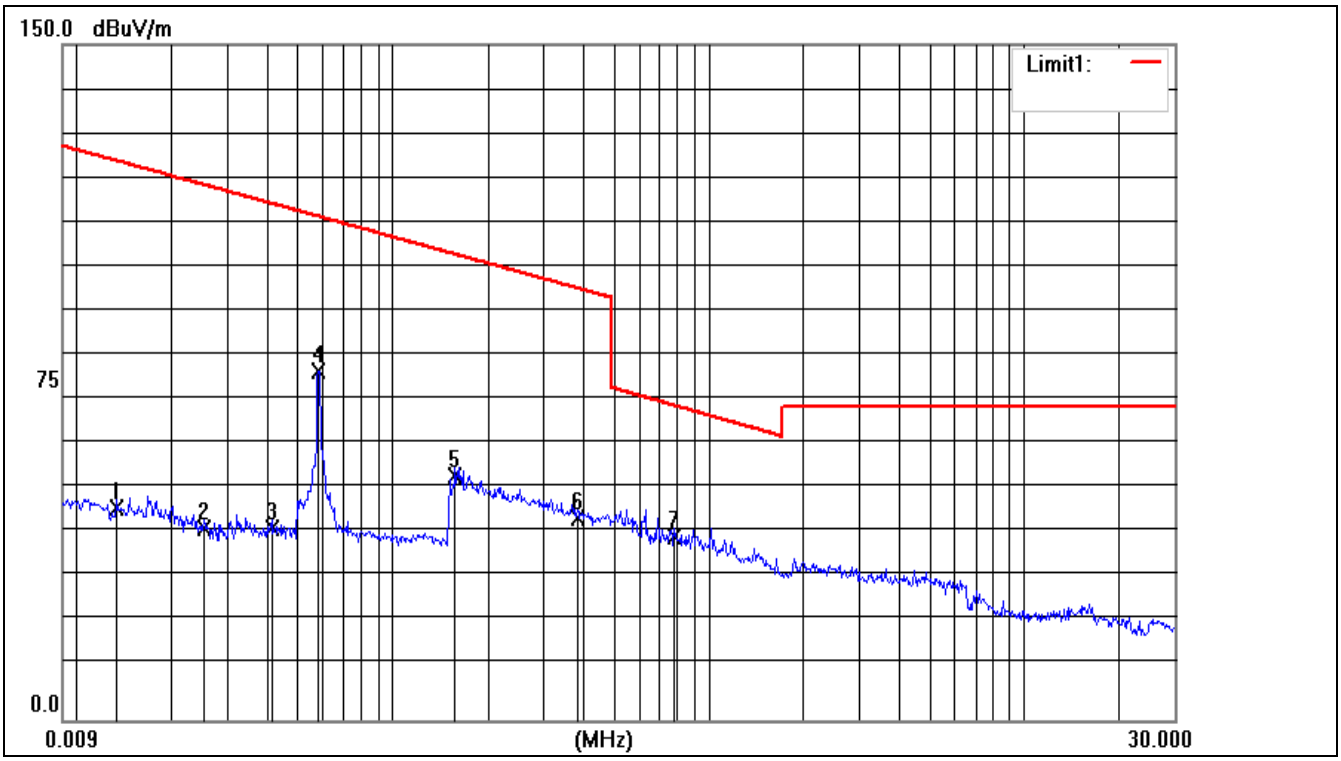
Vertical



No.	Frequency	Reading	Correct	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0134	30.93	15.96	46.89	-33.11	44.15	-77.26	QP
2	0.0251	26.55	15.83	42.38	-37.62	38.86	-76.48	QP
3	0.0413	26.82	15.65	42.47	-37.53	34.66	-72.19	QP
4	0.0580	62.12	15.47	77.59	-2.41	31.79	-34.2	peak
5	0.1572	39.64	14.45	54.09	-25.91	23.39	-49.3	QP
6	0.3830	30.29	14.43	44.72	-35.28	15.88	-51.16	QP
7	0.7752	26.16	14.39	40.55	0.55	29.83	-29.28	QP

Remark:

The Distance Extrapolation Factor in dB is 40*log (D_{TEST} / D_{SPEC}) where D_{TEST} = Test Distance and D_{SPEC} = Specified Distance.

Field strength limit (dBμV/m) @ test distance= Field strength limit (dBμV/m) @ specified distance -Distance Extrapolation Factor

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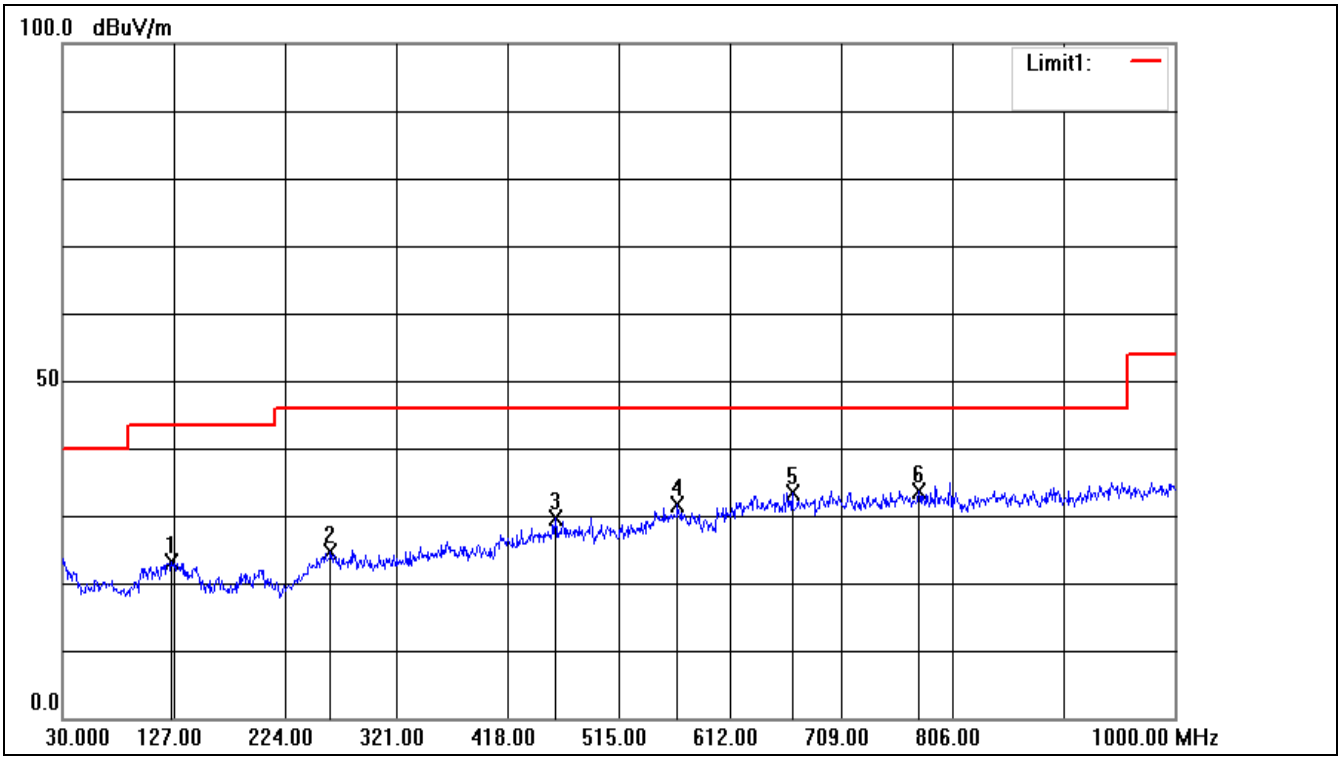
4. Below 1GHz

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	125.0600	3.68	19.46	23.14	43.50	-20.36	QP
2	263.7700	3.58	21.02	24.60	46.00	-21.40	QP
3	459.7100	4.98	24.76	29.74	46.00	-16.26	QP
4	566.4100	4.22	27.37	31.59	46.00	-14.41	QP
5	666.3200	6.03	27.29	33.32	46.00	-12.68	QP
6	776.9000	31.30	2.30	33.60	46.00	-12.40	QP

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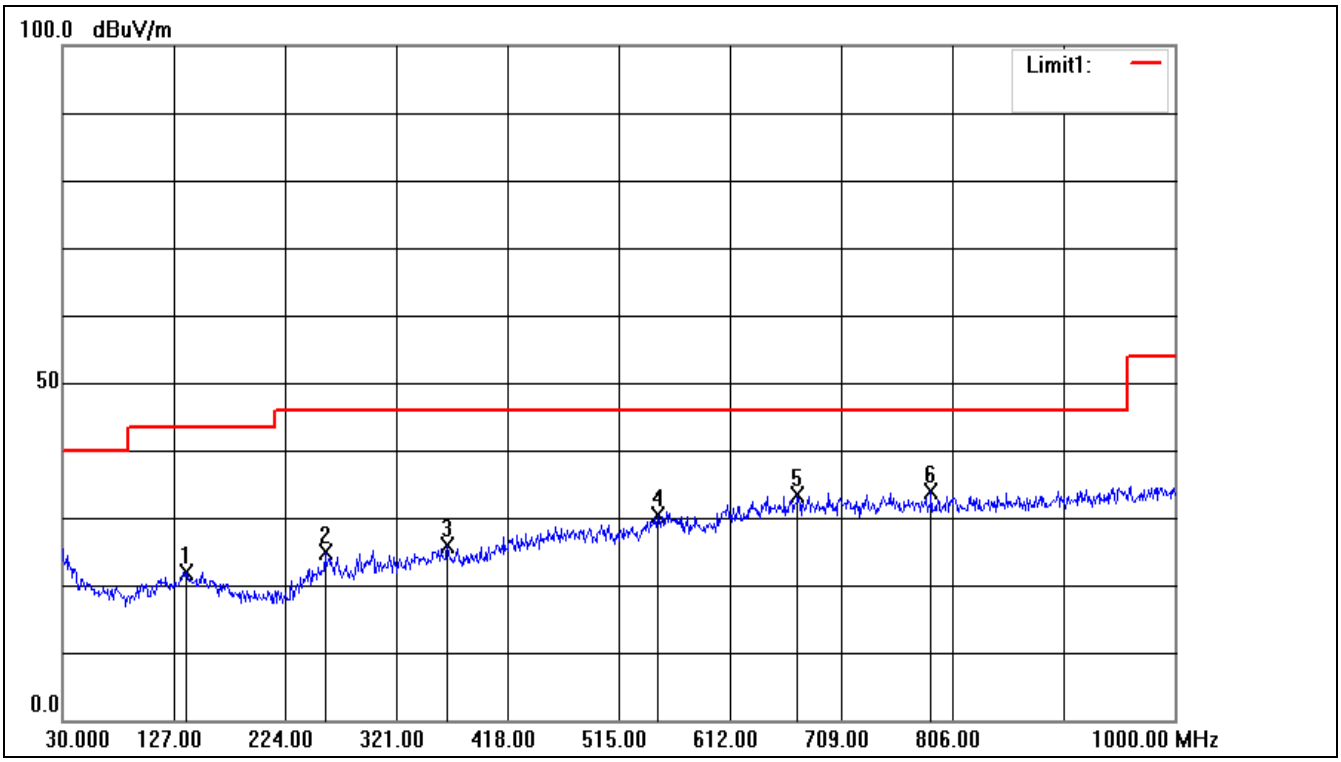
Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	137.6700	3.10	18.82	21.92	43.50	-21.58	QP
2	258.9200	4.07	20.76	24.83	46.00	-21.17	QP
3	365.6200	3.57	22.24	25.81	46.00	-20.19	QP
4	548.9500	3.22	27.21	30.43	46.00	-15.57	QP
5	671.1700	6.00	27.44	33.44	46.00	-12.56	QP
6	787.5700	31.71	2.28	33.99	46.00	-12.01	QP

- End of the Report -

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