

# TEST REPORT

**Application No.:** KSEM2108001382CR  
**FCC ID:** 2ADTD-K1T690MT  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Applicant:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
**Address of Manufacturer:** No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
**Factory:** 1.Hangzhou Hikvision Technology Co., Ltd.  
 2.Hangzhou Hikvision Electronics Co., Ltd.  
 3.Hangzhou Hikvision Digital Technology Co., Ltd.  
 4.Chongqing Hikvision technology Co.,Ltd  
**Address of Factory:** 1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang, 310052, China  
 2.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang,310052,China.  
 3.No.555 Qianmo Road,Binjiang District Hangzhou 310052,China  
 4. NO.118.Haikang Road,Area C,Jianqiao Industrial Park,Dadukou District,Chongqing,401325,China

**Equipment Under Test (EUT):**

**EUT Name:** Face Recognition Terminal  
**Model No.:** DS-K1T690MF-X,DS-K1T690MF-XUHK,DS-K1T690MF-XCKV,DS-K1T690MF-XUVS,DS-K1T690MF-XKVO,DS-K1T690MF-XHUN,DS-K1T690M-T,DS-K1T690M-TUHK,DS-K1T690M-TCKV,DS-K1T690M-TUVS,DS-K1T690M-TKVO,DS-K1T690M-THUN,DS-K1T690M-E1,DS-K1T690M-EUHK,DS-K1T690M-ECKV,DS-K1T690M-EUVS,DS-K1T690M-EKVO,DS-K1T690M-EHUN

☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade Mark:** HIKVISION  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.225  
**Date of Receipt:** 2021-08-12  
**Date of Test:** 2021-12-24 to 2022-01-11  
**Date of Issue:** 2022-01-11

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Eric Lin  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-01-11	/

Authorized for issue by:			
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		Damon Zhou / Project Engineer	
		<i>Eric Lin</i>	
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		Eric Lin / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.225	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Emission Mask	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.225(a)&(b)&(C)	Pass
Frequency tolerance	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.225(e)	Pass
Radiated Emissions(9kHz-30MHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass
Radiated Emissions(30MHz-1GHz)	47 CFR Part 15, Subpart C 15.225	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.225(d) & 15.209	Pass

### Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-K1T690M-T, DS-K1T690MF-X, DS-K1T690M-E1 was tested since their differences were functional differences. DS-K1T690M-T includes BT, NFC and temperature measurement functions; DS-K1T690MF-X includes BT, NFC and fingerprint identification functions; DS-K1T690M-E1 includes BT, NFC and power by POE functions.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 12-24V, 4A
Test voltage:	AC 120V/60Hz
Antenna Type	Loop antenna
Modulation Type	ASK
Number of Channels	1
Operation Frequency	13.56MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HONOTO	ADS-12AM-12 12 12012EPCU	/
Note Book	Acer	ZQT	NXM0QCN0103140 3EE876
PoE Adapter	Shenzhen Gaosibao	G0491C-480-025	/

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$8.4 \times 10^{-8}$
2	Occupied Bandwidth	3%
3	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
4	Temperature test	1°C
5	Humidity test	3%
6	Supply voltages	1.5%
7	Time	3%

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.

#### 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.

CAB Identifier: CN0072.

- **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.

#### 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
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>						
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
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
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
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	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
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	/	04/15/2021	04/14/2022
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

#### 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 integrated on the main PCB 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  
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: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

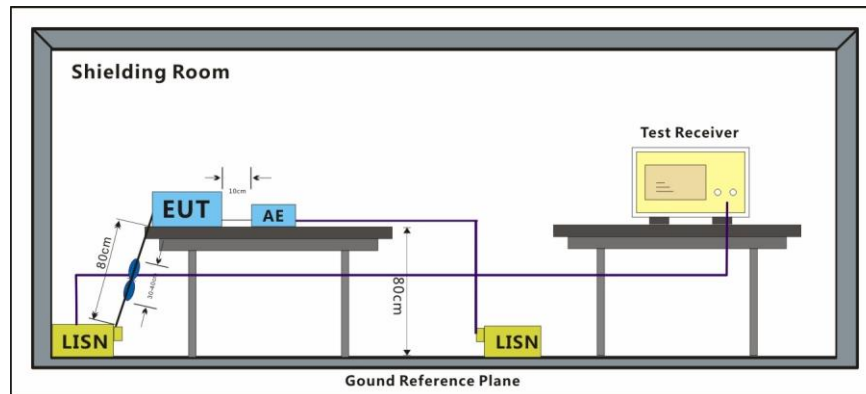
Pretest these modes to find the worst case:  
a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).  
b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).

c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).

d:TX mode\_Keep the EUT in transmitting with modulation mode powered by POE adapter (DS-K1T690M-E1).

The worst case for final test: a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).

#### 7.1.2 Test Setup Diagram



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### 7.1.3 Measurement Procedure and Data

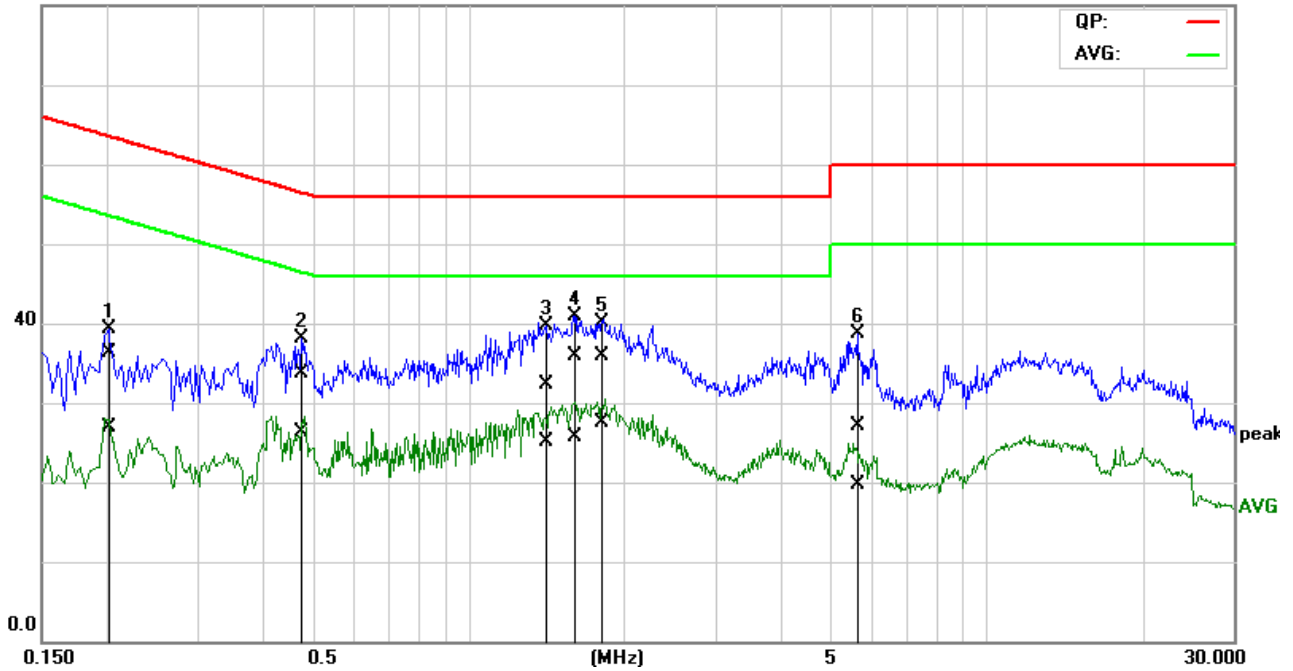
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to 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

80.0 dBuV



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1996	16.61	7.25	19.75	36.36	27.00	63.62	53.63	-27.26	-26.63	Pass
2	0.4764	13.83	6.54	19.79	33.62	26.33	56.40	46.40	-22.78	-20.07	Pass
3	1.3992	12.52	5.39	19.70	32.22	25.09	56.00	46.00	-23.78	-20.91	Pass
4	1.5910	16.28	6.05	19.71	35.99	25.76	56.00	46.00	-20.01	-20.24	Pass
5*	1.7880	16.20	7.78	19.71	35.91	27.49	56.00	46.00	-20.09	-18.51	Pass
6	5.6563	7.25	-0.06	19.81	27.06	19.75	60.00	50.00	-32.94	-30.25	Pass



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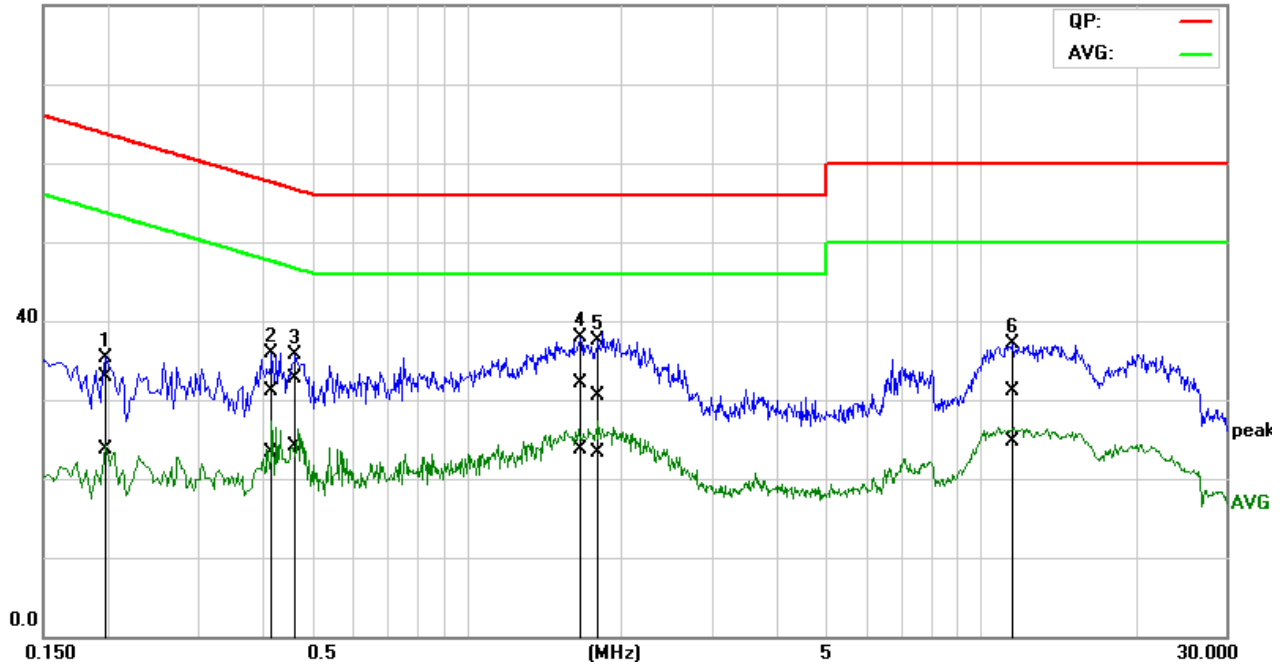
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Mode:a; Line:Neutral Line

80.0 dBuV



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1999	13.08	3.99	19.76	32.84	23.75	63.61	53.61	-30.77	-29.86	Pass
2	0.4188	11.28	3.50	19.79	31.07	23.29	57.47	47.47	-26.40	-24.18	Pass
3	0.4655	12.96	4.27	19.79	32.75	24.06	56.59	46.59	-23.84	-22.53	Pass
4*	1.6517	12.39	4.08	19.71	32.10	23.79	56.00	46.00	-23.90	-22.21	Pass
5	1.7954	10.77	3.50	19.71	30.48	23.21	56.00	46.00	-25.52	-22.79	Pass
6	11.6104	11.17	4.63	19.98	31.15	24.61	60.00	50.00	-28.85	-25.39	Pass



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## 7.2 20dB Bandwidth

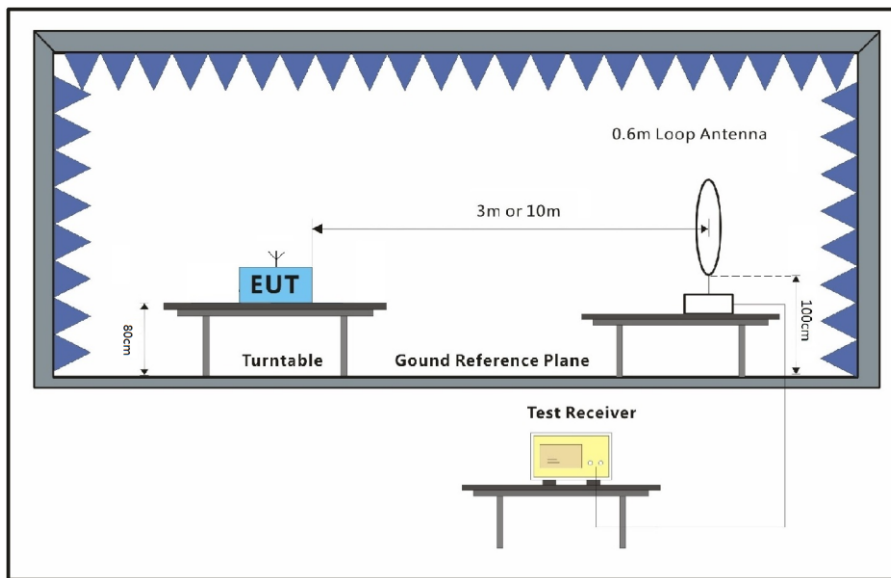
Test Requirement 47 CFR Part 15, Subpart C 15.215  
Test Method: ANSI C63.10 (2013) Section 6.9  
Limit: N/A

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar  
Test mode a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).

### 7.2.2 Test Setup Diagram



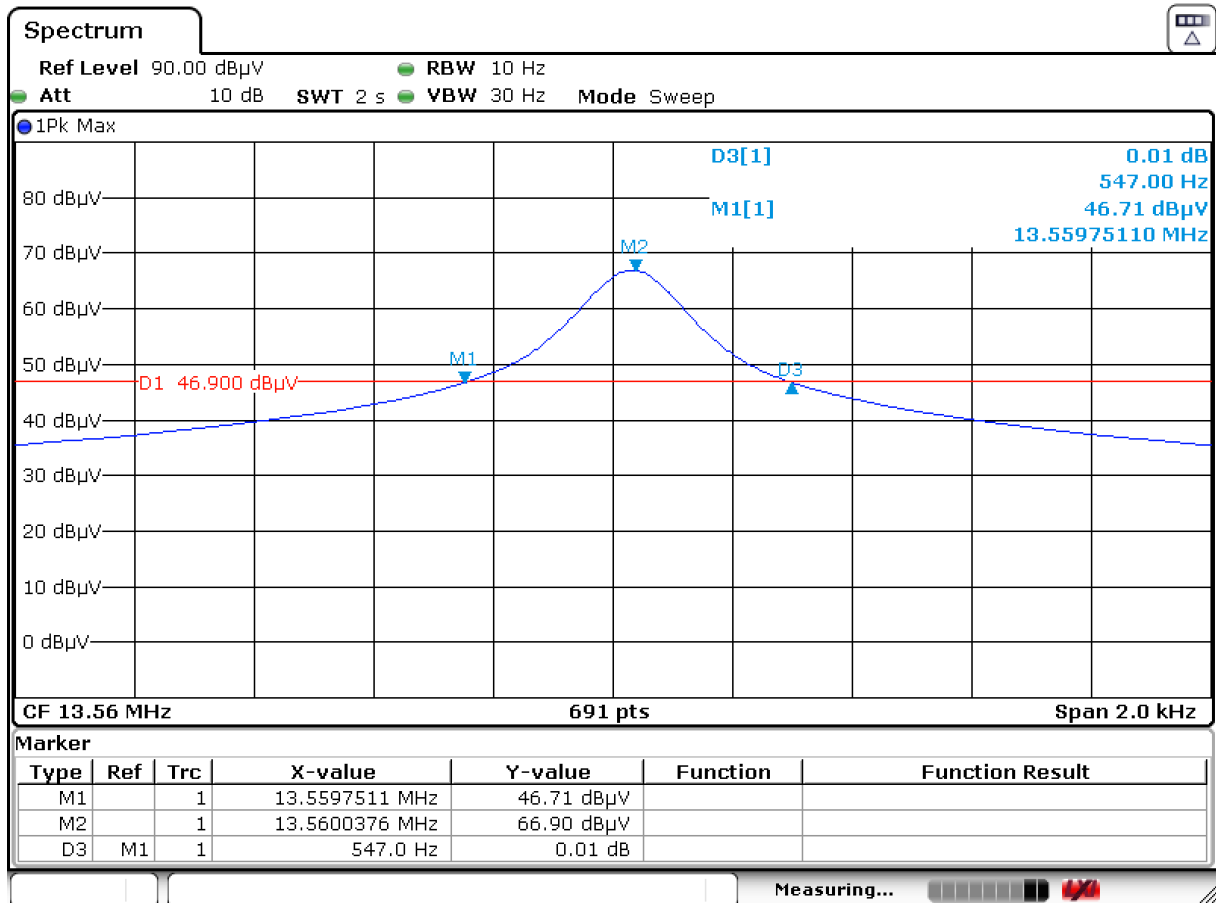
### 7.2.3 Measurement Procedure and Data



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20dB bandwidth (kHz)	F <sub>L</sub> (MHz)	F <sub>H</sub> (MHz)	Limit(MHz)	Result
0.5470	13.5598	13.5603	13.110 – 14.010	Pass

Test plot as follows:



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### 7.3 Emission Mask

Test Requirement 47 CFR Part 15 Subpart C 15.225(a)&(b)&(C)  
Test Method: ANSI C63.10 (2013) Section 6.4  
Limit:

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

**NOTE:**

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  $40 \cdot \log(D_{TEST} / D_{SPEC})$  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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### 7.3.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:  
a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).  
b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).

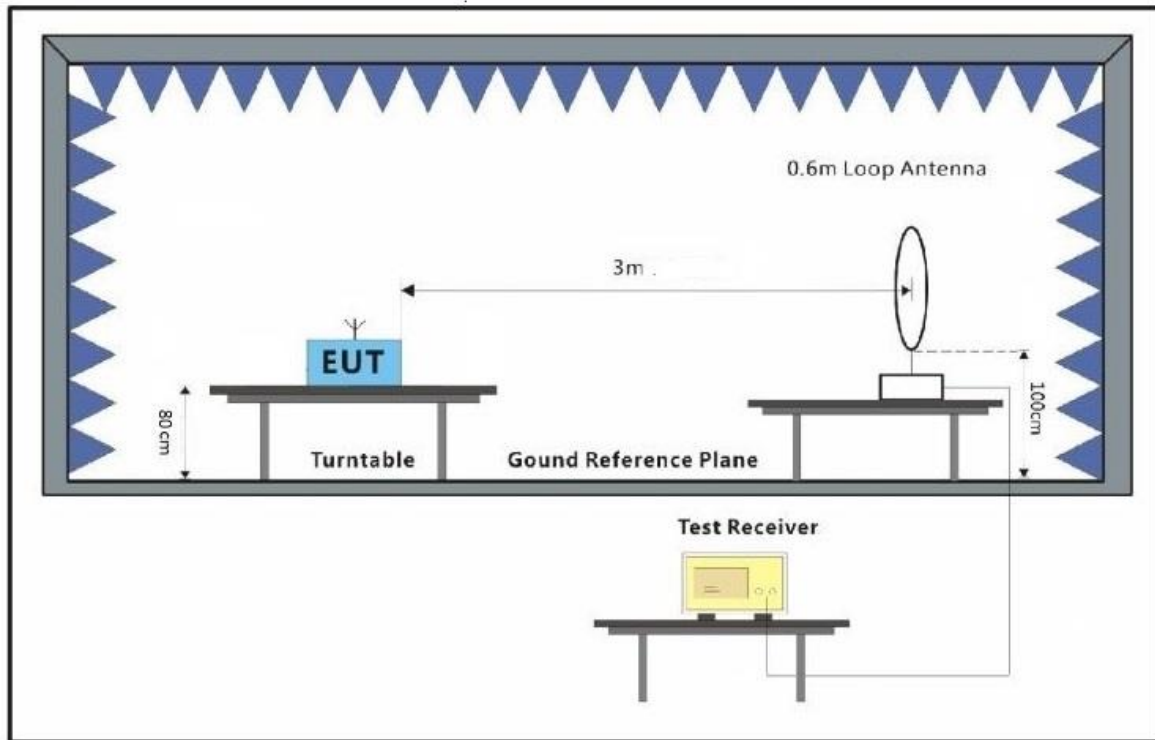
c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).

d:TX mode\_Keep the EUT in transmitting with modulation mode powered by POE adapter (DS-K1T690M-E1).

The worst case for final test:  
a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).  
b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).

c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).

### 7.3.2 Test Setup Diagram



### 7.3.3 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.

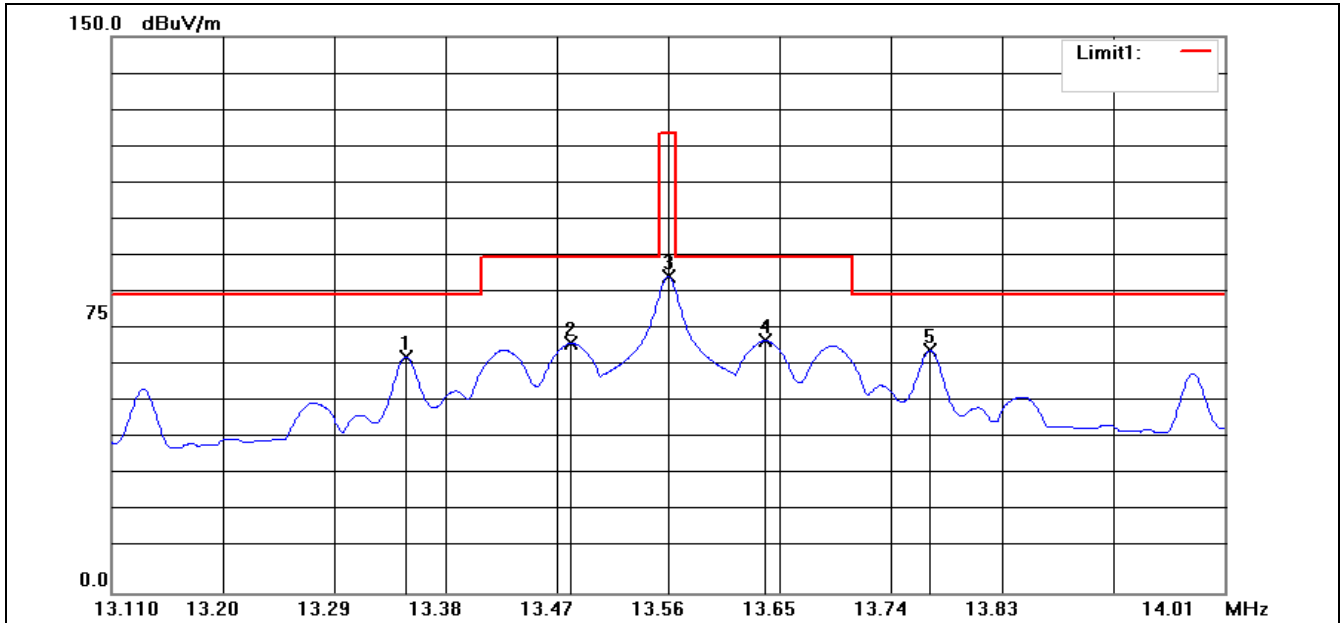


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Mode a:

Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3485	50.56	13.02	63.58	80.50	-16.92	QP
2	13.4817	54.43	13.01	67.44	90.50	-23.06	QP
3	13.5600	72.40	13.00	85.40	124.00	-38.60	Peak
4	13.6383	55.09	12.99	68.08	90.50	-22.42	QP
5	13.7715	52.35	12.98	65.33	80.50	-15.17	QP



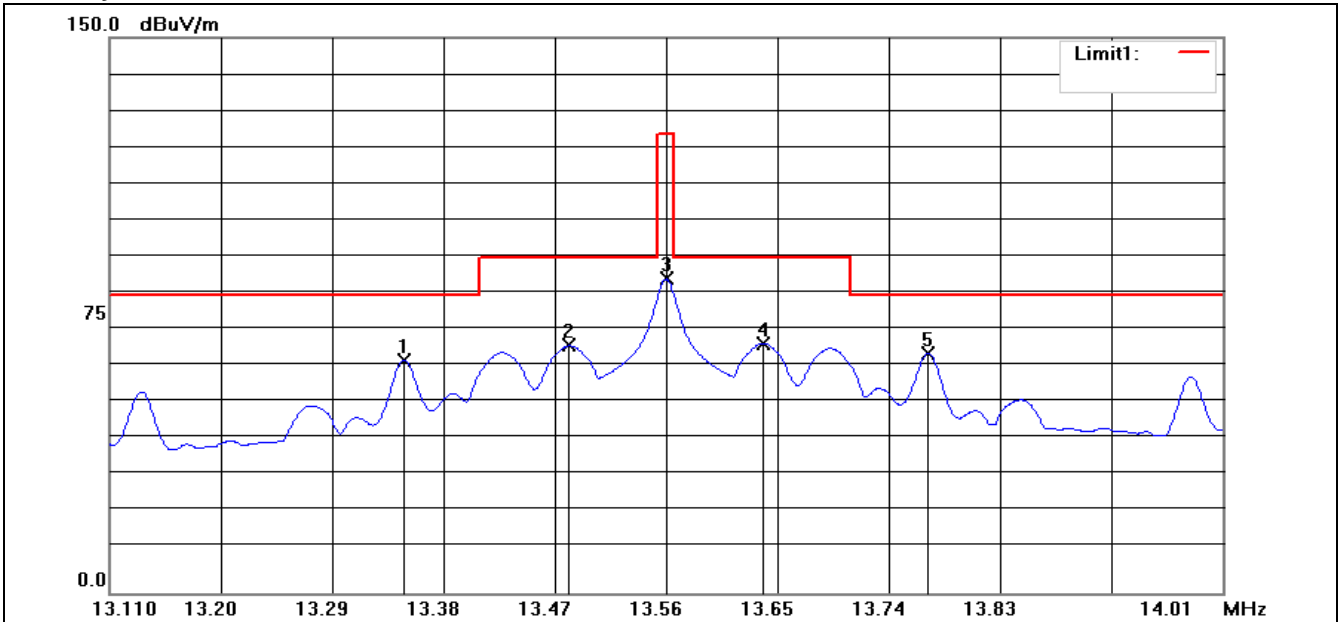
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Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3485	49.94	13.02	62.96	80.50	-17.54	QP
2	13.4817	53.82	13.01	66.83	90.50	-23.67	QP
3	13.5600	71.81	13.00	84.81	124.00	-39.19	Peak
4	13.6383	54.47	12.99	67.46	90.50	-23.04	QP
5	13.7715	51.70	12.98	64.68	80.50	-15.82	QP



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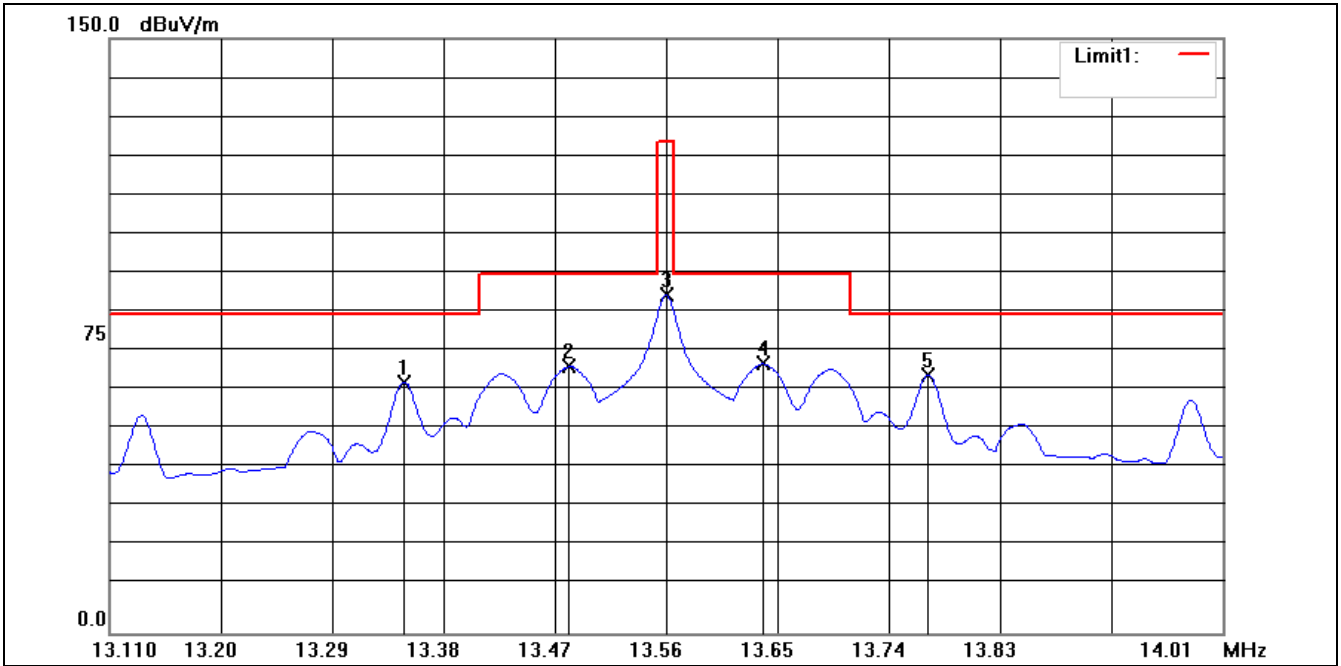
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Mode b:

**Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3485	50.32	13.02	63.34	80.50	-17.16	QP
2	13.4817	54.25	13.01	67.26	90.50	-23.24	QP
3	13.5600	72.23	13.00	85.23	124.00	-38.77	Peak
4	13.6383	54.92	12.99	67.91	90.50	-22.59	QP
5	13.7715	52.13	12.98	65.11	80.50	-15.39	QP



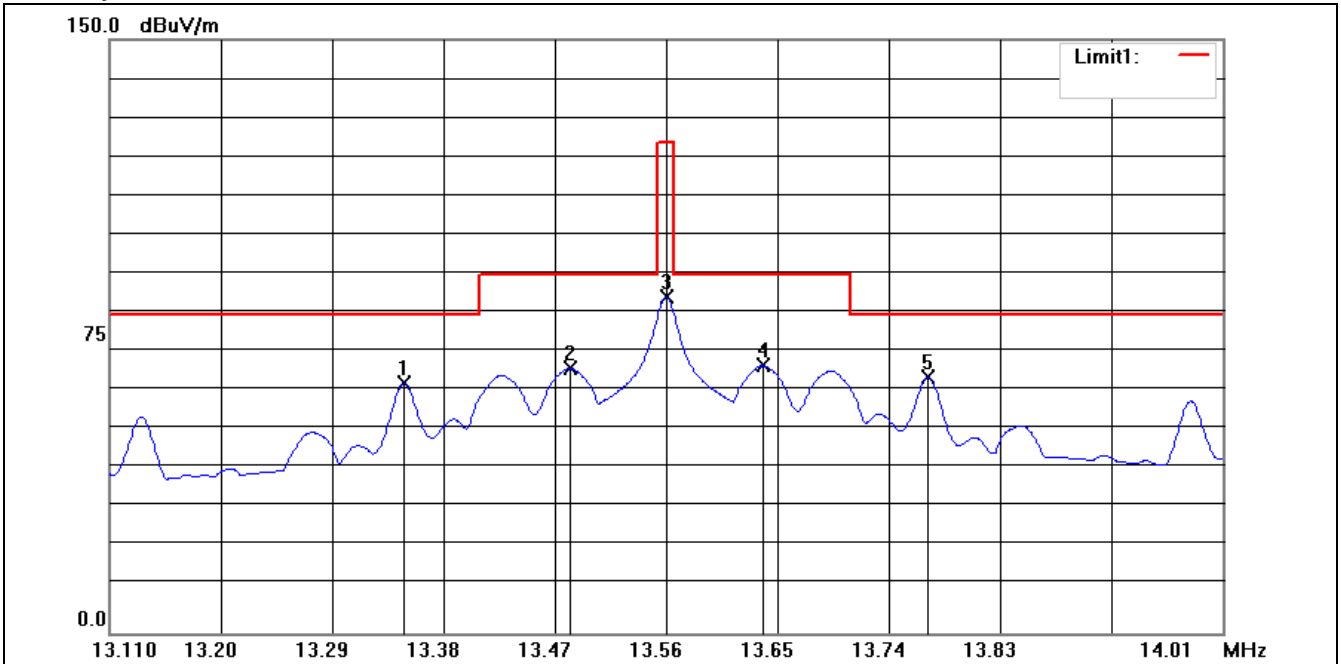
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Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3484	50.10	13.02	63.12	80.50	-17.38	QP
2	13.4825	53.95	13.01	66.96	90.50	-23.54	QP
3	13.5600	71.93	13.00	84.93	124.00	-39.07	Peak
4	13.6382	54.60	12.99	67.59	90.50	-22.91	QP
5	13.7714	51.87	12.98	64.85	80.50	-15.65	QP



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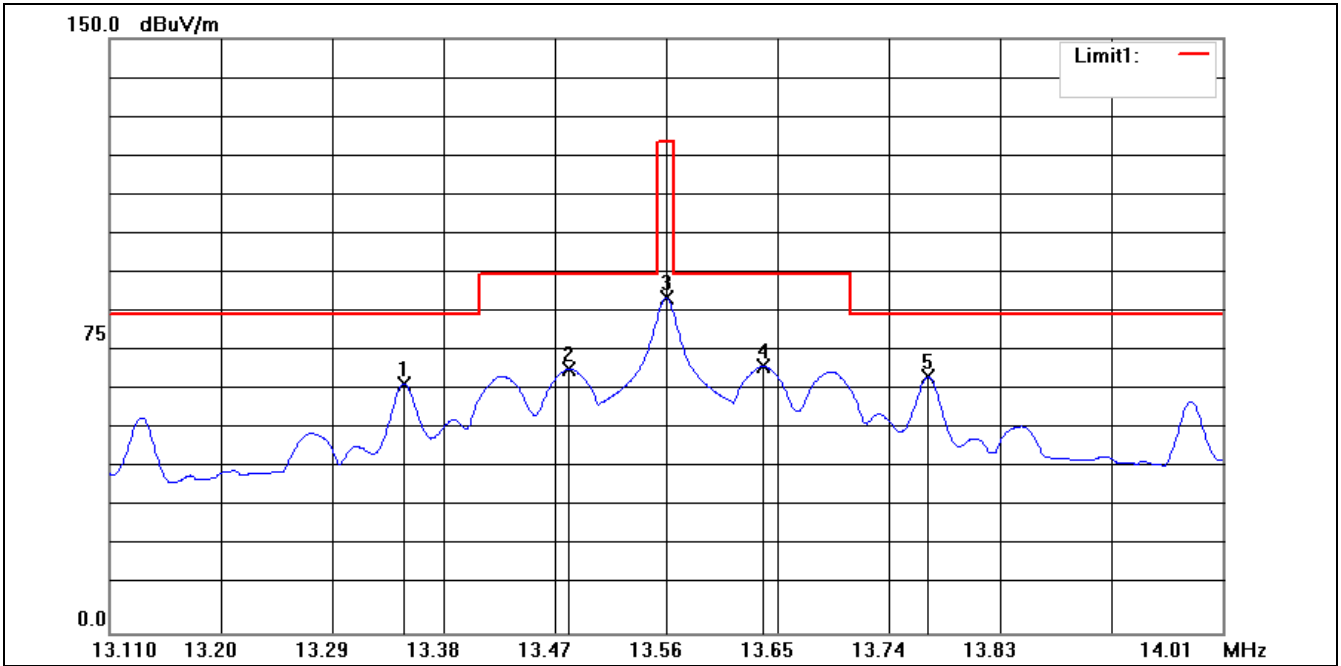
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Mode c:

Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3485	49.81	13.02	62.83	80.50	-17.67	QP
2	13.4817	53.70	13.01	66.71	90.50	-23.79	QP
3	13.5600	71.68	13.00	84.68	124.00	-39.32	Peak
4	13.6383	54.37	12.99	67.36	90.50	-23.14	QP
5	13.7715	51.62	12.98	64.60	80.50	-15.90	QP



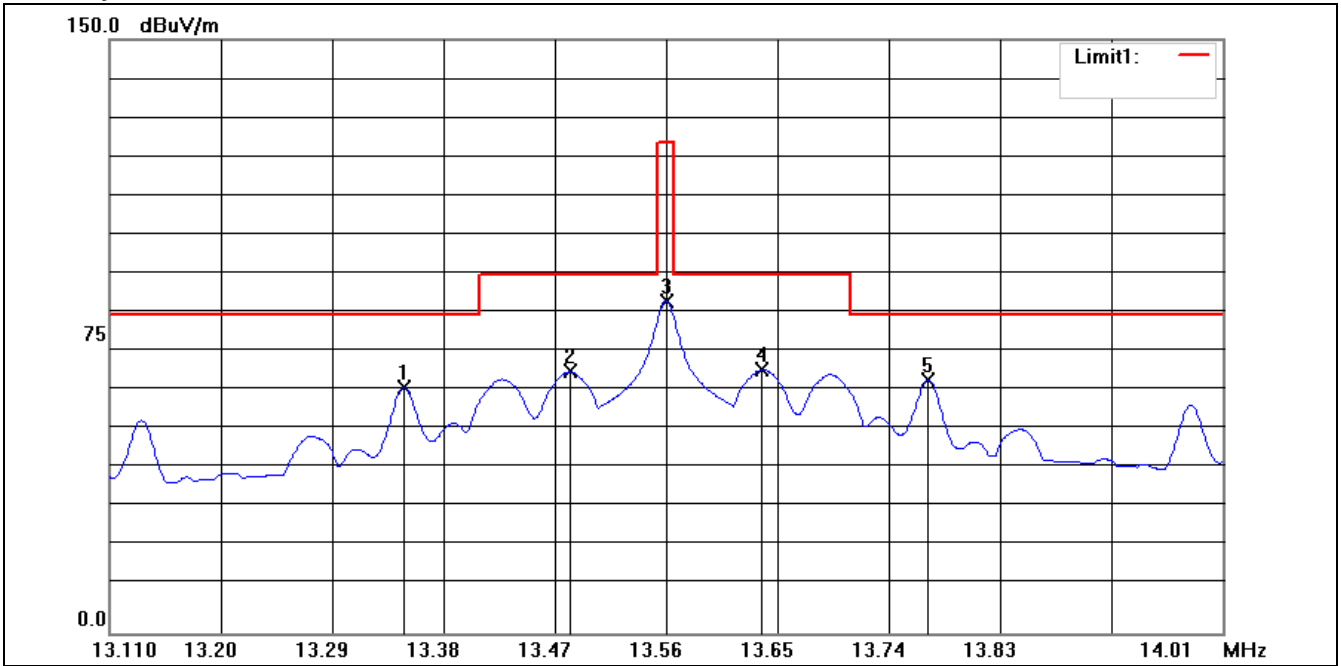
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Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.3485	49.14	13.02	62.16	80.50	-18.34	QP
2	13.4826	53.03	13.01	66.04	90.50	-24.46	QP
3	13.5600	71.00	13.00	84.00	124.00	-40.00	Peak
4	13.6374	53.66	12.99	66.65	90.50	-23.85	QP
5	13.7715	50.93	12.98	63.91	80.50	-16.59	QP



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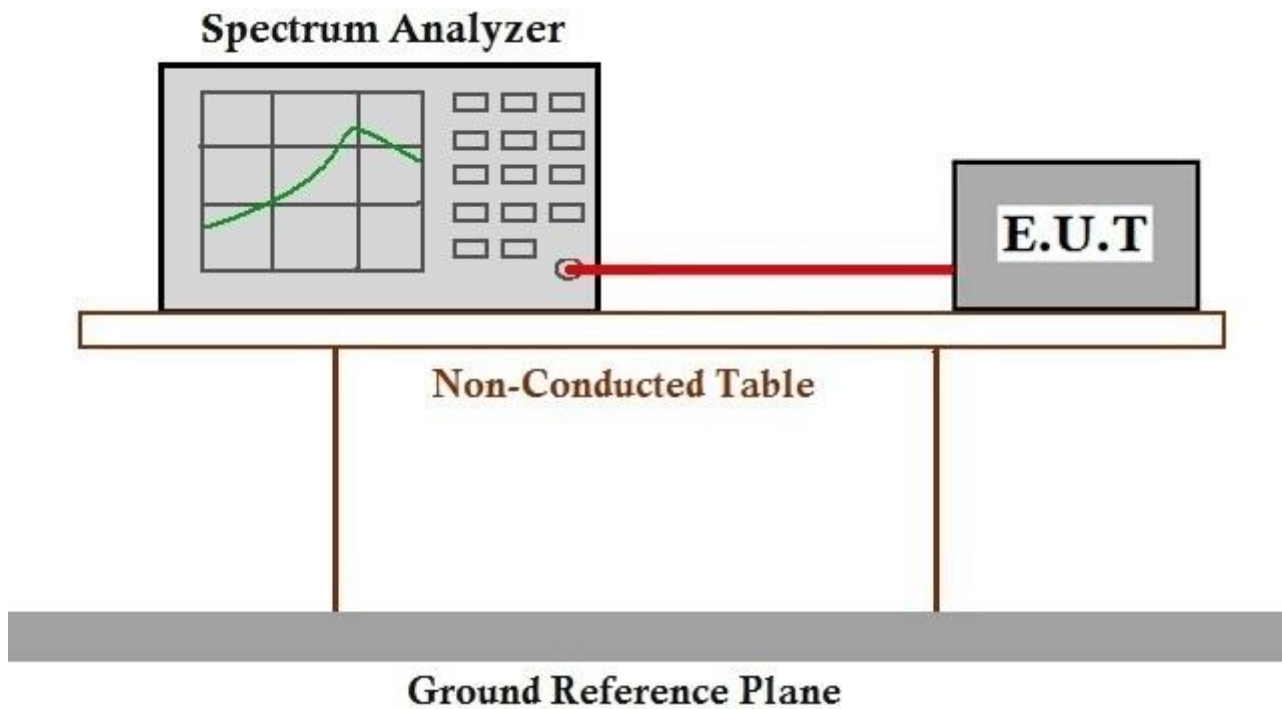
### 7.4 Frequency tolerance

Test Requirement 47 CFR Part 15, Subpart C 15.225(e)  
Test Method: ANSI C63.10 (2013) Section 6.8  
Limit: 1.356kHz

#### 7.4.1 E.U.T. Operation

Operating Environment:  
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar  
Test mode a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).

#### 7.4.2 Test Setup Diagram



#### 7.4.3 Measurement Procedure and Data



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Nominal Operation Frequency: 13.56MHz

Test Conditions		Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
Temp (°C)	Volt (V DC)				
T <sub>nom</sub> (-20)	V <sub>nom</sub> (120)	13.55990	-0.10	±0.01% (1.3560kHz)	Pass
T <sub>nom</sub> (-10)	V <sub>nom</sub> (120)	13.55994	-0.06		Pass
T <sub>nom</sub> (0)	V <sub>nom</sub> (120)	13.55999	-0.01		Pass
T <sub>nom</sub> (10)	V <sub>nom</sub> (120)	13.56001	0.01		Pass
T <sub>nom</sub> (20)	V <sub>nom</sub> (120)	13.56005	0.05		Pass
T <sub>nom</sub> (30)	V <sub>nom</sub> (120)	13.56009	0.09		Pass
T <sub>nom</sub> (40)	V <sub>nom</sub> (120)	13.56012	0.12		Pass
T <sub>nom</sub> (50)	V <sub>nom</sub> (120)	13.56016	0.16		Pass
T <sub>nom</sub> (20)	V <sub>min</sub> (102)	13.56003	0.03		Pass
	V <sub>max</sub> (138)	13.56010	0.10		Pass

Note: Deviation (kHz) = (Test Result-13.56MHz)\*1000



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### 7.5 Radiated Emissions(9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209

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

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  $40 \cdot \log(D_{TEST} / D_{SPEC})$  where  $D_{TEST}$  = Test Distance and  $D_{SPEC}$  = Specified Distance.

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

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



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**7.5.1 E.U.T. Operation**

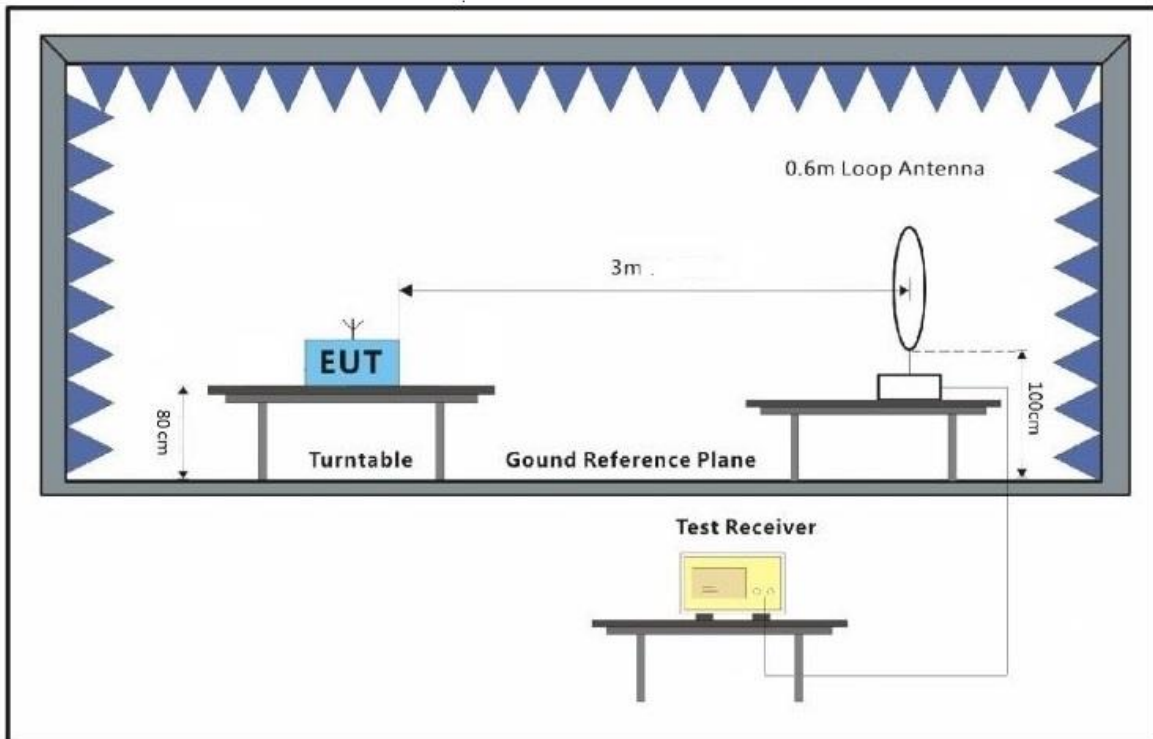
Operating Environment:

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

- Pretest these modes to find the worst case:
- a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).
  - b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).
  - c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).
  - d:TX mode\_Keep the EUT in transmitting with modulation mode powered by POE adapter (DS-K1T690M-E1).

- The worst case for final test:
- a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).
  - b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).
  - c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).

**7.5.2 Test Setup Diagram**



**7.5.3 Measurement Procedure and Data**

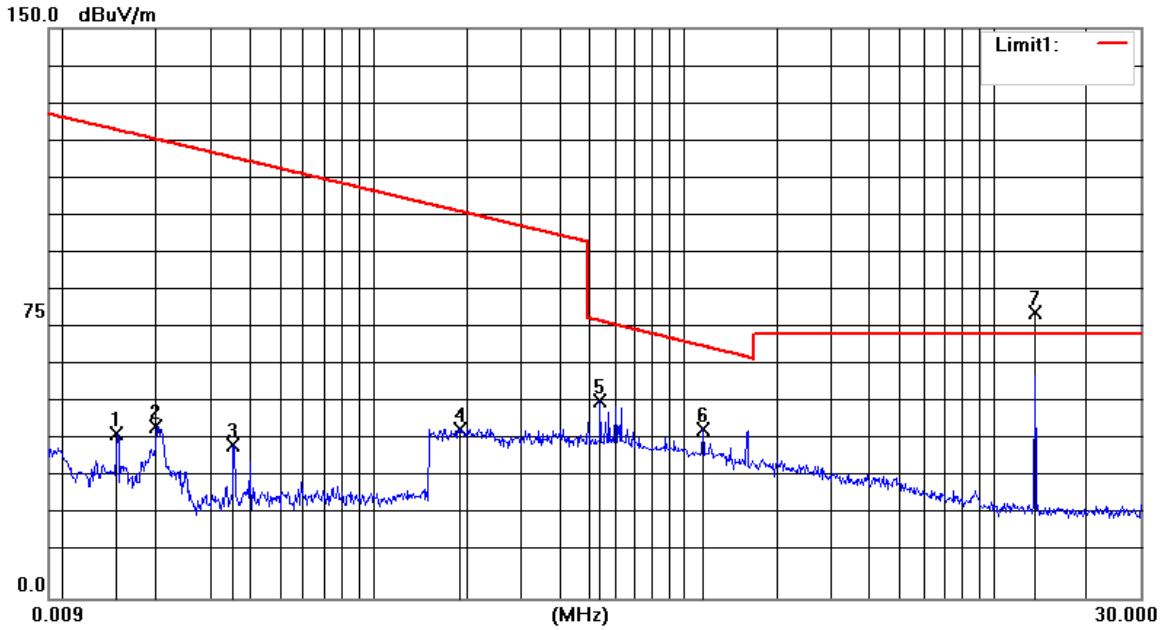
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated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



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Mode a:

**Horizontal**



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0150	27.24	15.94	43.18	-36.82	43.20	-80.02	QP
2	0.0200	29.27	15.89	45.16	-34.84	40.77	-75.61	QP
3	0.0354	24.55	15.72	40.27	-39.73	35.96	-75.69	QP
4	0.1894	30.11	14.45	44.56	-35.44	21.82	-57.26	QP
5	0.5404	37.56	14.41	51.97	11.97	32.95	-20.98	QP
6	1.1532	30.17	14.34	44.51	4.51	26.39	-21.88	QP
7	13.5600	62.11	13.00	75.11	35.11	Fundamental Frequency		Peak

Note: 0.009-0.49MHz Distance factor is 80, 0.49MHz~30MHz Distance factor is 40



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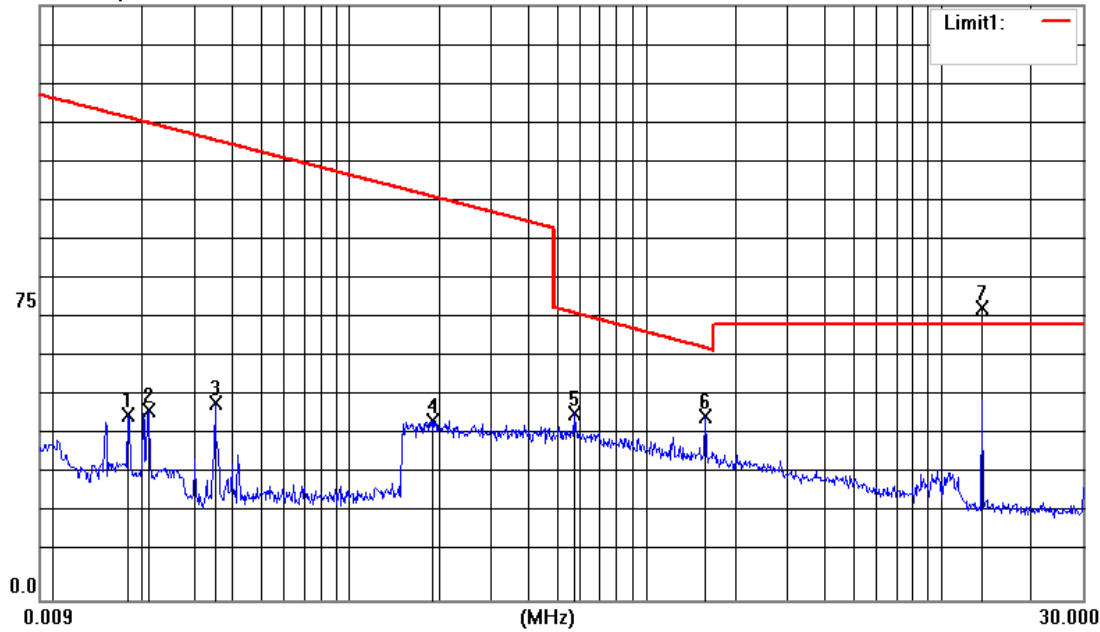
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**Vertical**

150.0 dBuV/m



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0177	30.73	15.91	46.64	-33.36	41.80	-75.16	QP
2	0.0210	32.03	15.88	47.91	-32.09	40.36	-72.45	QP
3	0.0350	33.81	15.72	49.53	-30.47	36.05	-66.52	QP
4	0.1904	30.70	14.45	45.15	-34.85	21.77	-56.62	QP
5	0.5701	32.70	14.40	47.10	7.10	32.49	-25.39	QP
6	1.5850	32.13	14.29	46.42	6.42	23.63	-17.21	QP
7	13.5600	60.87	13.00	73.87	33.87	Fundamental Frequency		Peak



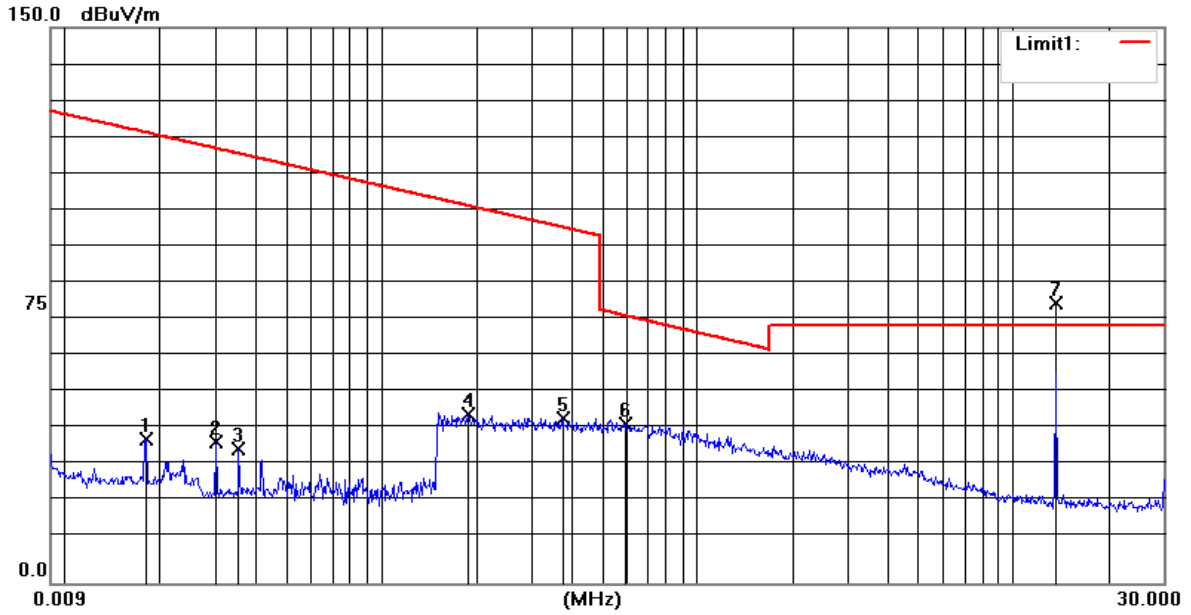
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Mode b:

**Horizontal**



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0180	22.74	15.91	38.65	-41.35	41.66	-83.01	QP
2	0.0300	22.46	15.78	38.24	-41.76	37.35	-79.11	QP
3	0.0354	20.46	15.72	36.18	-43.82	35.96	-79.78	QP
4	0.1874	31.14	14.45	45.59	-34.41	21.91	-56.32	QP
5	0.3730	30.12	14.43	44.55	-35.45	16.10	-51.55	QP
6	0.5947	28.41	14.40	42.81	2.81	32.12	-29.31	QP
7	13.5600	62.54	13.00	75.54	35.54	Fundamental Frequency		Peak

Note: 0.009-0.49MHz Distance factor is 80, 0.49MHz~30MHz Distance factor is 40



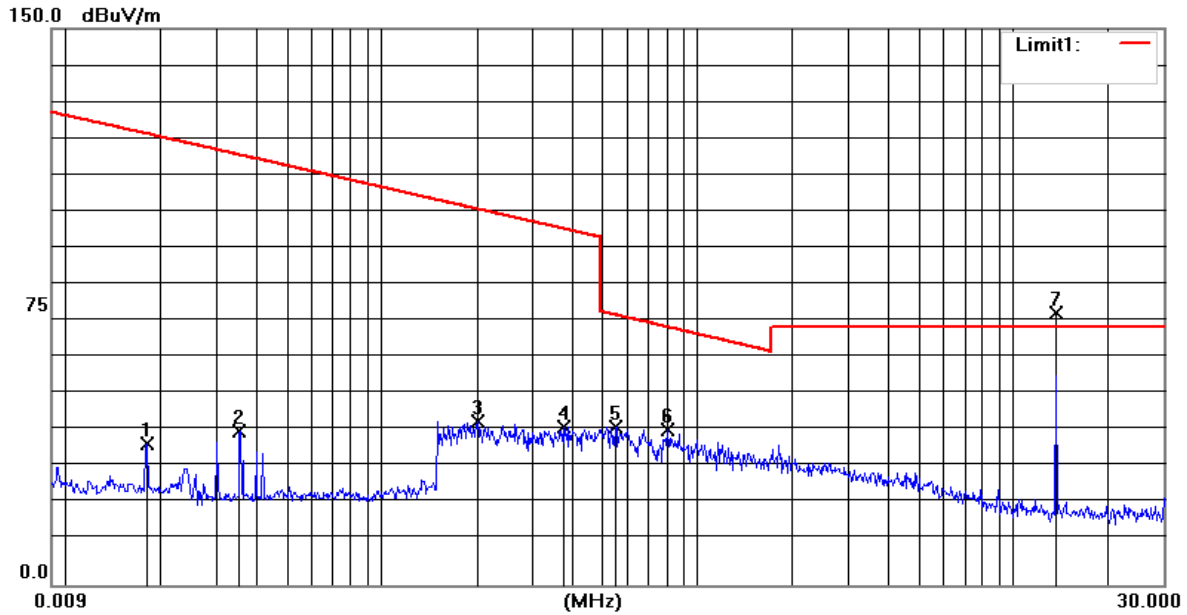
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Vertical



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dB $\mu$ V)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0180	22.11	15.91	38.02	-41.98	41.66	-83.64	QP
2	0.0354	25.55	15.72	41.27	-38.73	35.96	-74.69	QP
3	0.2006	29.44	14.44	43.88	-36.12	21.33	-57.45	QP
4	0.3750	28.11	14.43	42.54	-37.46	16.06	-53.52	QP
5	0.5493	28.21	14.41	42.62	2.62	32.81	-30.19	QP
6	0.8044	27.34	14.38	41.72	1.72	29.51	-27.79	QP
7	13.5600	60.33	13.00	73.33	33.33	Fundamental Frequency		Peak



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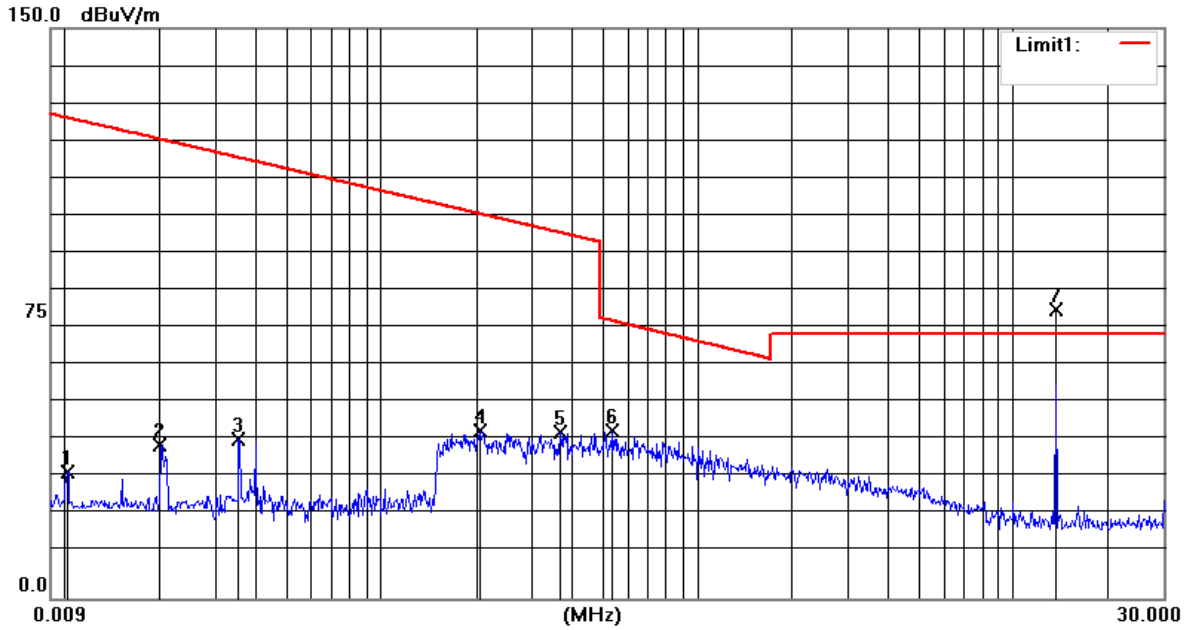
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Mode c:

Horizontal



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0102	17.26	16.00	33.26	-46.74	46.45	-93.19	QP
2	0.0200	24.33	15.89	40.22	-39.78	40.77	-80.55	QP
3	0.0354	26.01	15.72	41.73	-38.27	35.96	-74.23	QP
4	0.2061	29.48	14.44	43.92	-36.08	21.10	-57.18	QP
5	0.3690	29.35	14.43	43.78	-36.22	16.19	-52.41	QP
6	0.5404	29.61	14.41	44.02	4.02	32.95	-28.93	QP
7	13.5600	62.79	13.00	75.79	35.79	Fundamental Frequency		Peak

Note: 0.009-0.49MHz Distance factor is 80, 0.49MHz~30MHz Distance factor is 40



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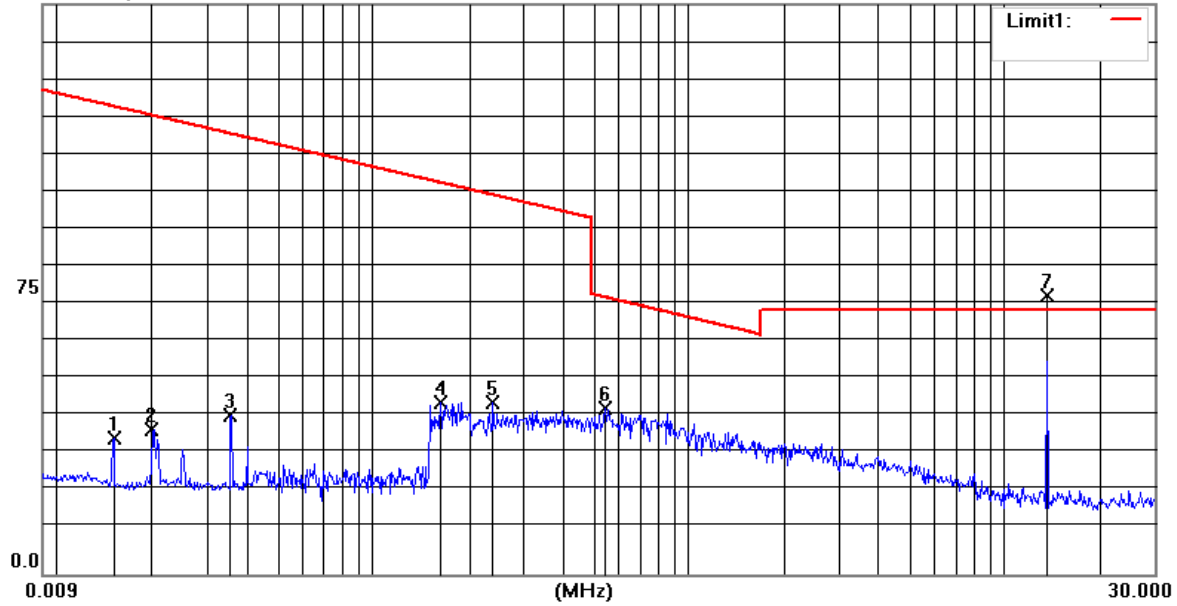
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**Vertical**

150.0 dBuV/m



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector
(Mark)	(MHz)	(dBμV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0151	19.78	15.94	35.72	-44.28	43.14	-87.42	QP
2	0.0200	22.10	15.89	37.99	-42.01	40.77	-82.78	QP
3	0.0354	26.03	15.72	41.75	-38.25	35.96	-74.21	QP
4	0.1633	30.79	14.45	45.24	-34.76	23.07	-57.83	QP
5	0.2391	30.57	14.44	45.01	-34.99	19.85	-54.84	QP
6	0.5433	29.18	14.41	43.59	3.59	32.91	-29.32	QP
7	13.5600	60.18	13.00	73.18	33.18	Fundamental Frequency		Peak



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### 7.6 Radiated Emissions(30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.225(d) & 15.209  
 Test Method: ANSI C63.10 (2013) Section 6.4&6.5  
 Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
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

#### 7.6.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case:  
 a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).  
 b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).

c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).

d:TX mode\_Keep the EUT in transmitting with modulation mode powered by POE adapter (DS-K1T690M-E1).

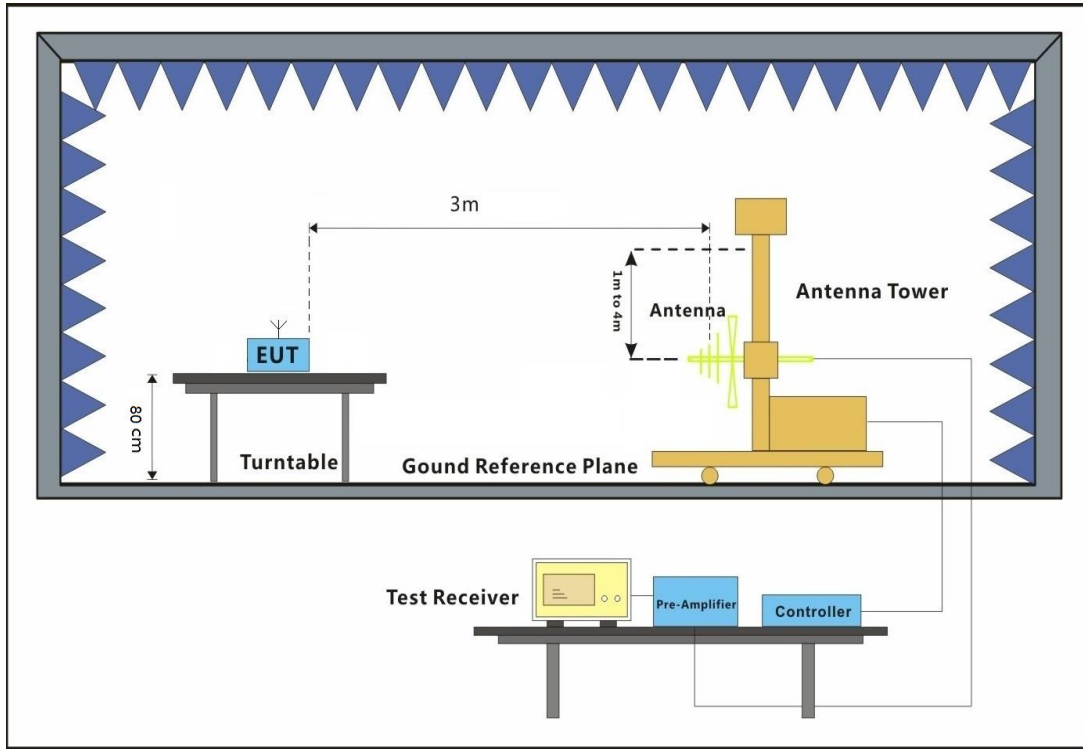
The worst case for final test:  
 a:TX mode\_Keep the EUT in transmitting with modulation mode (DS-K1T690M-T).  
 b:TX mode\_Keep the EUT in transmitting with modulation mode(DS-K1T690MF-X).

c:TX mode\_Keep the EUT in transmitting with modulation mode powered by AC adapter (DS-K1T690M-E1).



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7.6.2 Test Setup Diagram



7.6.3 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. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

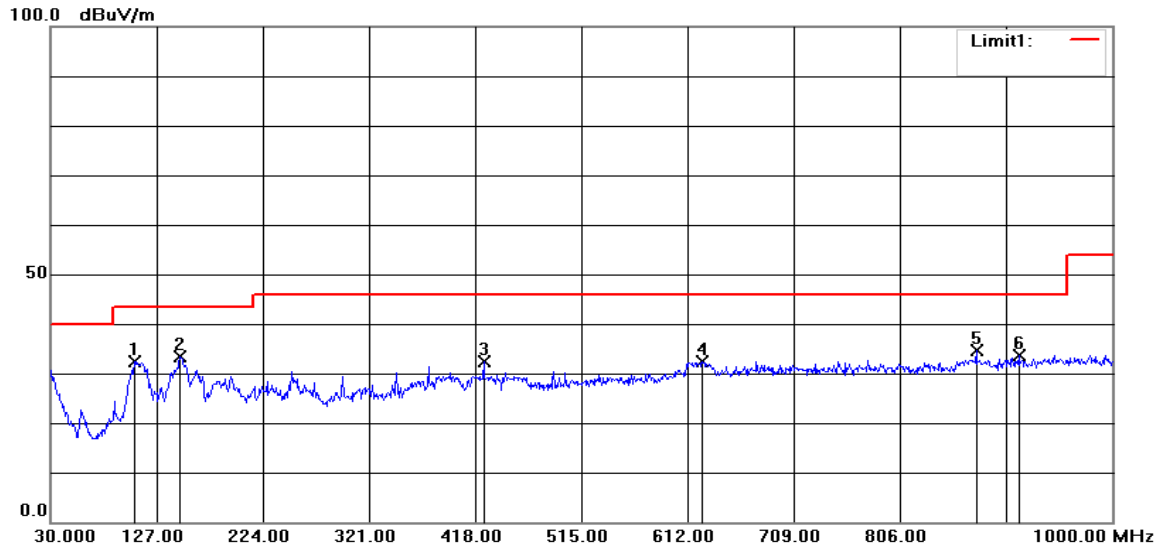
1. Level = Read Level+ Cable Loss+ Antenna Factor- Preamp Factor.



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Mode a:

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	106.6300	13.75	18.73	32.48	43.50	-11.02	QP
2	148.3400	13.27	20.09	33.36	43.50	-10.14	QP
3	425.7600	8.36	23.96	32.32	46.00	-13.68	QP
4	625.5800	5.58	26.82	32.40	46.00	-13.60	QP
5	875.8400	6.25	28.38	34.63	46.00	-11.37	QP
6	914.6400	4.87	28.85	33.72	46.00	-12.28	QP



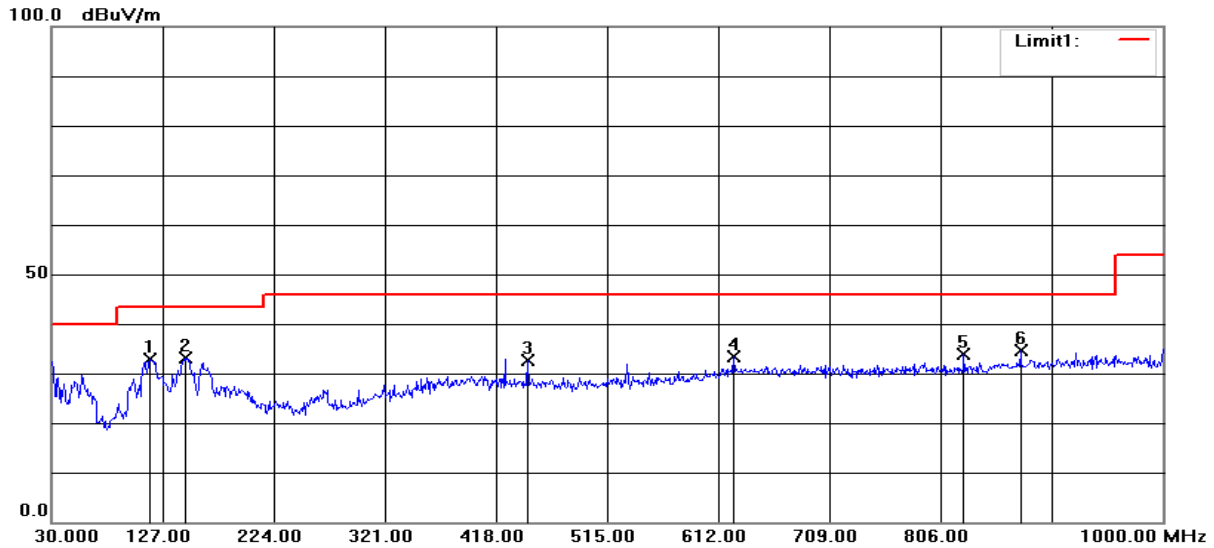
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	115.3600	13.82	19.01	32.83	43.50	-10.67	QP
2	147.3700	13.07	20.05	33.12	43.50	-10.38	QP
3	445.1600	8.28	24.24	32.52	46.00	-13.48	QP
4	625.5800	6.55	26.82	33.37	46.00	-12.63	QP
5	826.3700	5.95	27.96	33.91	46.00	-12.09	QP
6	875.8400	6.30	28.38	34.68	46.00	-11.32	QP



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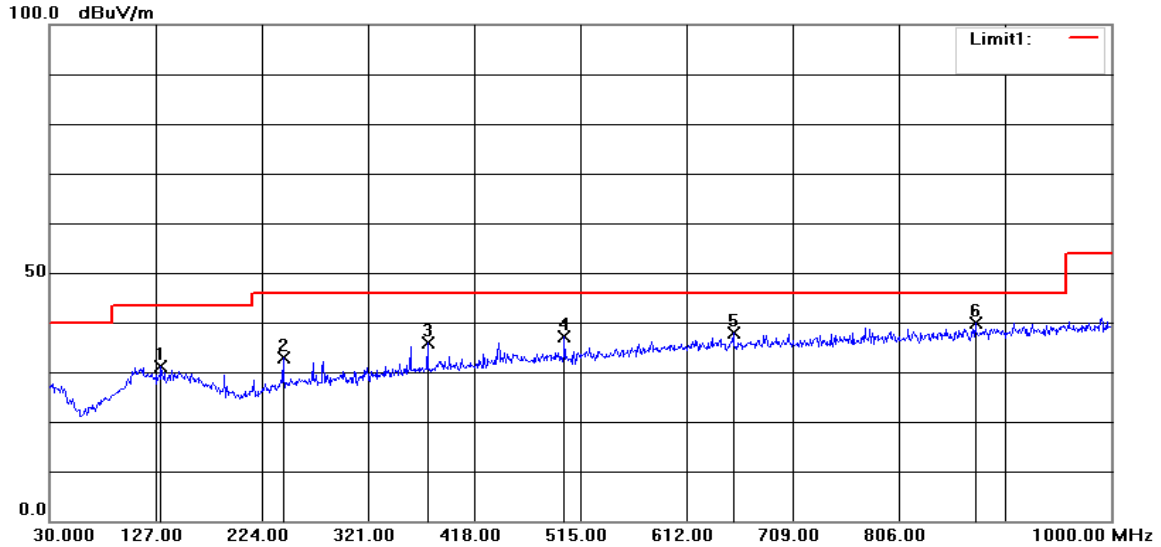
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Mode b:

**Horizontal**



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	131.8500	11.59	19.55	31.14	43.50	-12.36	QP
2	243.4000	13.96	18.91	32.87	46.00	-13.13	QP
3	375.3200	12.96	22.99	35.95	46.00	-10.05	QP
4	500.4500	11.91	25.25	37.16	46.00	-8.84	QP
5	654.6800	10.78	27.15	37.93	46.00	-8.07	QP
6	875.8400	11.48	28.38	39.86	46.00	-6.14	QP



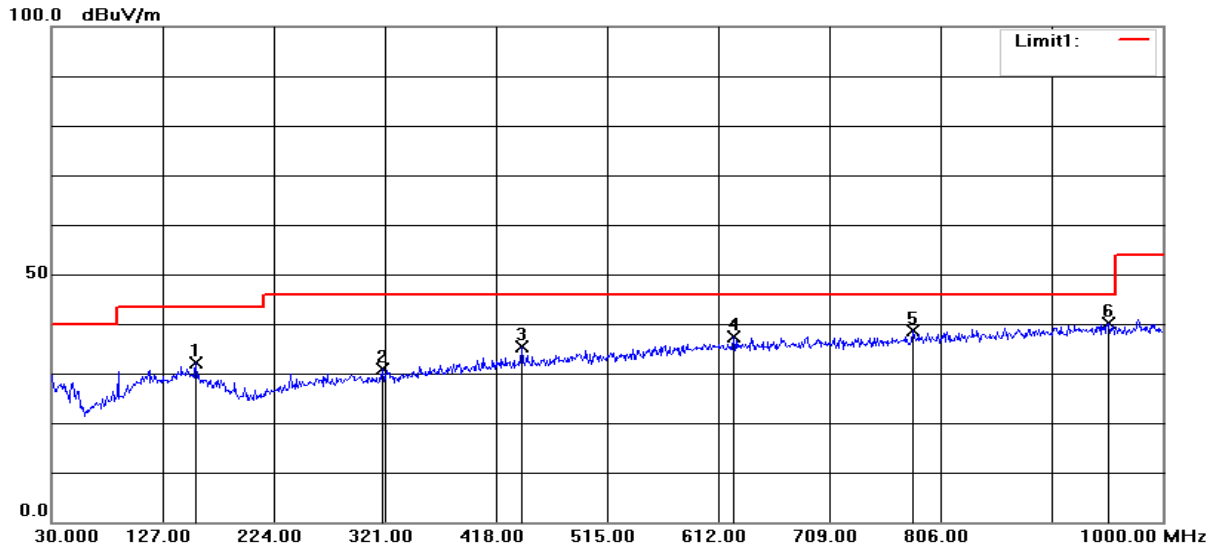
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	156.1000	12.54	19.67	32.21	43.50	-11.29	QP
2	319.0600	9.61	21.29	30.90	46.00	-15.10	QP
3	440.3100	11.09	24.17	35.26	46.00	-10.74	QP
4	625.5800	10.48	26.82	37.30	46.00	-8.70	QP
5	781.7500	10.85	27.70	38.55	46.00	-7.45	QP
6	952.4700	10.83	29.30	40.13	46.00	-5.87	QP



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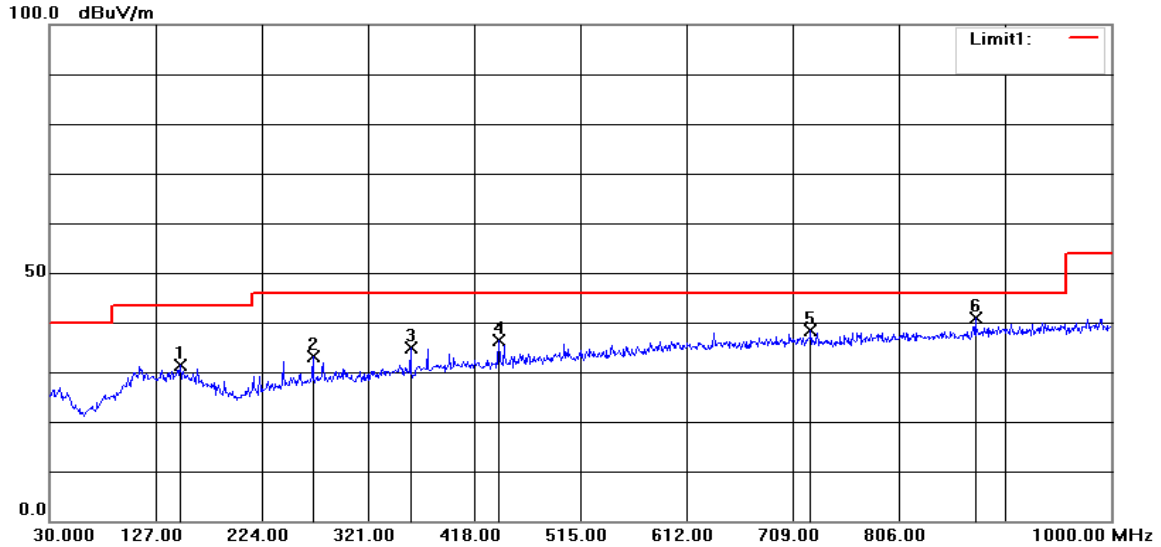
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Mode c:

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	149.3100	11.20	20.12	31.32	43.50	-12.18	QP
2	270.5600	13.23	19.85	33.08	46.00	-12.92	QP
3	359.8000	12.20	22.62	34.82	46.00	-11.18	QP
4	440.3100	12.27	24.17	36.44	46.00	-9.56	QP
5	725.4900	10.85	27.49	38.34	46.00	-7.66	QP
6	875.8400	12.45	28.38	40.83	46.00	-5.17	QP



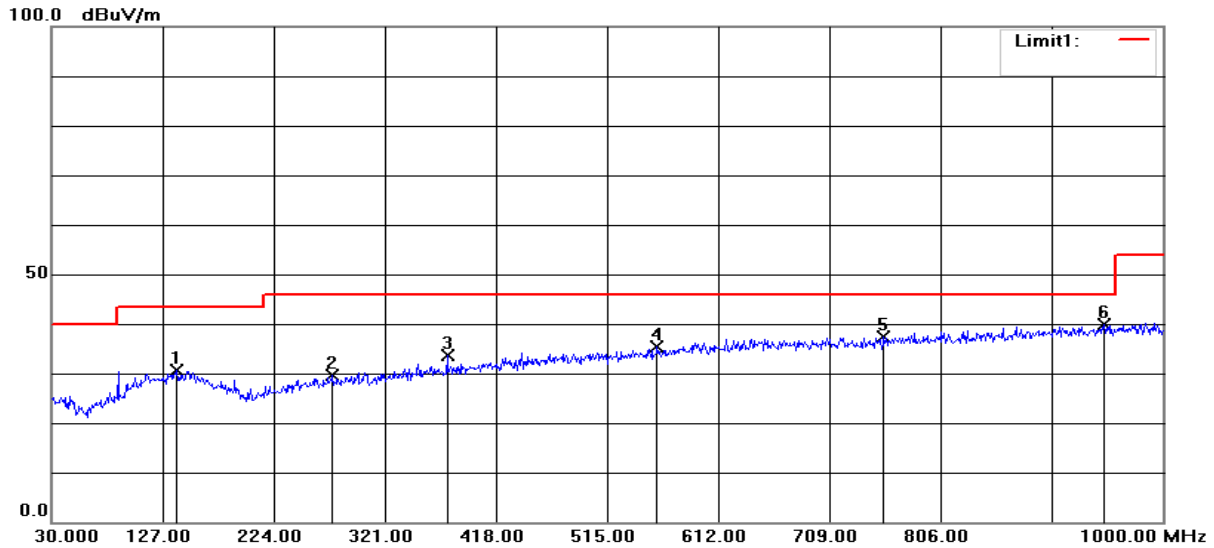
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	139.6100	10.90	19.80	30.70	43.50	-12.80	QP
2	275.4100	9.66	19.98	29.64	46.00	-16.36	QP
3	375.3200	10.53	22.99	33.52	46.00	-12.48	QP
4	558.6500	9.48	25.95	35.43	46.00	-10.57	QP
5	756.5300	9.75	27.53	37.28	46.00	-8.72	QP
6	948.5900	10.63	29.28	39.91	46.00	-6.09	QP



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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 >.

- End of the Report -



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