

Report No.: KSCR220900169905

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# TEST REPORT

Application No.: KSCR2209001699AT

**FCC ID**: 2AH25T6820 **IC**: 22621-T6820

Applicant: Shanghai Sunmi Technology Co.,Ltd.

Address of Applicant: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

**Manufacturer:** Shanghai Sunmi Technology Co.,Ltd.

Address of Manufacturer: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

**Equipment Under Test (EUT):** 

**EUT Name:** Smart POS system

Model No.: T6820

**HVIN:** T6820-1, T6820-2

Trade Mark: SUNMI

Standard(s): 47 CFR Part 15, Subpart C 15.225

RSS-210 issue 10 Amendment 1

RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2022-09-08

**Date of Test:** 2022-11-18 to 2022-11-29

**Date of Issue:** 2022-12-09

Test Result: Pass\*

Eric Lin Laboratory Manager

Esia fin



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record			
Version	Description	Date	Remark
00	Add two configurations	2022-12-09	Based on KSCR220400050305AT

Authorized for issue by:		
	Damon zhou	
	Damon_Zhou/Project Engineer	-
	Enie Li	
	Eric Lin /Reviewer	-



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# 2 Test Summary

Radio Spectrum Matte	r Part			
Item	FCC Requirement	IC Requirement	Method	Result
Radiated Emissions(9kHz- 30MHz)	47 CFR Part 15, Subpart C 15.225	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 15.225	RSS-210 Issue 10 Amendment (April 2020)	ANSI C63.10 (2013) Section 6.4&6.5	Pass

This report based on KSCR220400050305AT, added two configurations. expressed as SKU5 and SKU6. SKU5 (HVIN:T6820-1) stand for support HD screen, not support scanner version. SKU6 (HVIN:T6820-2) stand for support laser scanner version.



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## **General Information**

## Details of E.U.T.

Power supply:	DC 7.2V by Rechargeable Li-ion Battery charged by Adapter
	Battery Model: LKPA
	Nominal voltage:7.2V
	Limited charge voltage:8.4V
	Rated capacity:2500mAh/18Wh
	Typical capacity:2600mAh/18.72Wh
	Adapter Model 1: UC13US
	INPUT:100-240V,50/60Hz,0.35A
	OUTPUT:5V,2A
	Adapter Model 2: UC11US
	INPUT:100-240V,50/60Hz,0.2A
	OUTPUT:5V,1A
	Adapter Model 3: TPA-46B050100UU
	INPUT:100-240V,50/60Hz,0.2A
	OUTPUT:5V,1A
	Adapter Model 4: TPA-23A050200UU01
	INPUT:100-240V,50/60Hz,0.3A
	OUTPUT:5V,2A
Test Voltage:	DC 7.2V
	Remark: (Only AC 120V 60Hz by AC adapter for Conducted Emission test)
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Number of Channel:	1
Firmware Version:	SP6228A_V11_20220501_sunmi
Serial Number:	TJ06P28C20009

## 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
		-	
The EUT has been tested as an independent unit.			



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### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	DE Dodieted Dower	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)
9		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	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.

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:

#### A2LA

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

#### FCC

Compliance Certification Services (Kunshan) 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

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	Inventory No	Cal Date	Cal. Due Date
Condu	Conducted Emission at Mains Terminals (150kHz-30MHz)					
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/12/2022	11/11/2023
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Co	nducted Test					
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Ra	diated Test					T
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	1	CZ301097	11/13/2022	11/12/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A



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#### **Radio Spectrum Matter Test Results** 6

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

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

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

Limit:

	Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
Ī	0.009-0.490	2400/F(kHz)	-	-	300
Ī	0.490-1.705	24000/F(kHz)	-	-	30
Ī	1.705-30	30	-	-	30

#### **Below 30MHz**

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than  $\lambda/2\pi$  and the limit distance is greater than  $\lambda/2\pi$ , the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the  $\lambda/2\pi$  distance, and at a 20 dB/decade of distance rate beyond  $\lambda/2\pi$ . This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$$
(2)

If the single point measured is at a distance greater than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(3)

If both the single point and the limit distance are equal to or closer to the EUT than  $\lambda/2\pi$ , then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(30/300m)}/d_{(10m)}\}$$
(4)

Remark:

 $d_{near field} = 47.77 / f_{MHz}$ 

where f<sub>MHz</sub> is the frequency of the emission being measured in MHz.

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#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:



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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

where

is the calculation of field strength at the limit distance, expressed in dBµV/m  $FS_{limit}$ 

 $FS_{\text{max}}$ is the measured field strength, expressed in dBµV/m  $d_{\text{measure}}$ is the distance of the measurement point from the EUT is the reference distance or the distance of the  $\lambda/2\pi$  point  $d_{\text{limit}}$ 

r

#### 6.1.1 E.U.T. Operation

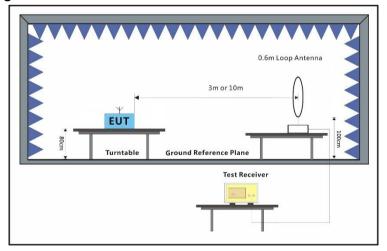
**Operating Environment:** 

Temperature: 22.9 °C Atmospheric Pressure: 1010 mbar Humidity: 59.3 % RH

### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Pre-scan	18	Keep EUT (SKU6) in TX mode with modulation	
Final test	09	Keep EUT (SKU5) in TX mode with modulation	

#### 6.1.3 Test Setup Diagram



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#### 6.1.4 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. Only the worst position of vertical was shown in the report.

Please Refer to Appendix for Details



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### 6.2 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(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 59.3 % RH Atmospheric Pressure: 1010 mbar

#### 6.2.1 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	18	Keep EUT (SKU6) in TX mode with modulation
Final test	09	Keep EUT (SKU5) in TX mode with modulation



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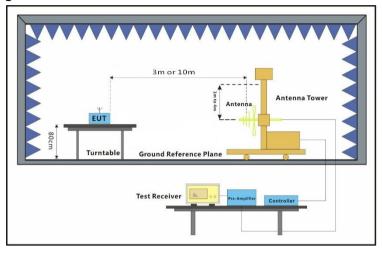
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### 6.2.2 Test Setup Diagram



#### 6.2.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Please Refer to Appendix for Details



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## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2209001699AT

# 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2209001699AT



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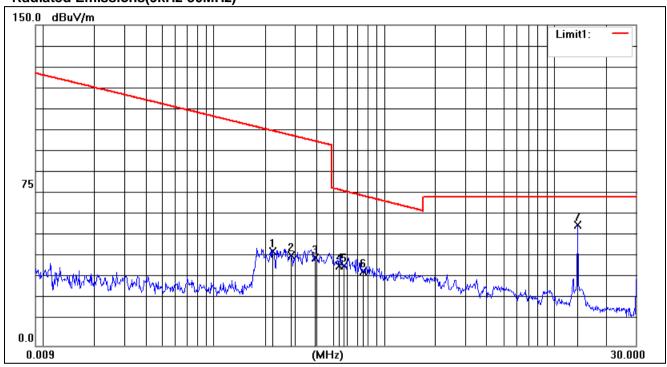


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#### **Appendix** 9

Radiated Emissions(9kHz-30MHz)



Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector	Polarity
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	0.2207	29.52	14.45	43.97	-36.03	20.53	-56.56	QP	Coaxial
2	0.2832	27.57	14.45	42.02	-37.98	18.42	-56.40	QP	Coaxial
3	0.3914	26.79	14.44	41.23	-38.77	15.69	-54.46	QP	Coaxial
4	0.5433	23.01	14.44	37.45	-2.55	32.91	-35.46	QP	Coaxial
5	0.5792	23.04	14.43	37.47	-2.53	32.35	-34.88	QP	Coaxial
6	0.751	20.14	14.43	34.57	-5.43	30.1	-35.53	QP	Coaxial
7	13.6227	42.45	13.95	56.40	16.40	29.5	-13.10	PK	Coaxial



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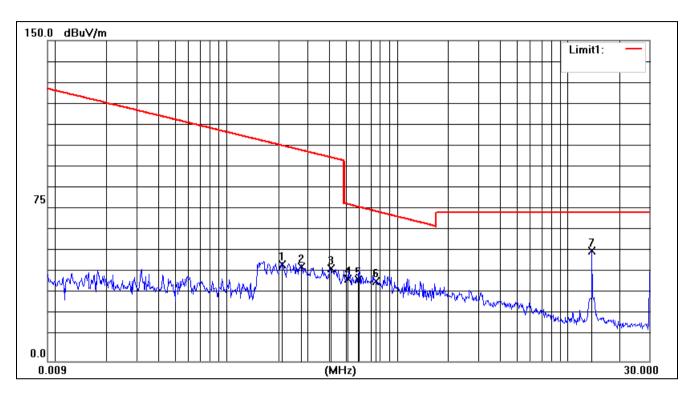
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Item	Freq.	Read Level	Correct Factor	Result Level@3m	Result Level@SPEC	Limit Line@SPEC	Over Limit	Detector	Polarity
(Mark)	(MHz)	(dBµV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	0.2127	30.69	14.45	45.14	-34.86	20.84	-55.70	QP	Coaxial
2	0.2757	29.8	14.45	44.25	-35.75	18.65	-54.40	QP	Coaxial
3	0.4082	28.87	14.44	43.31	-36.69	15.34	-52.03	QP	Coaxial
4	0.5128	23.82	14.44	38.26	-1.74	33.41	-35.15	QP	Coaxial
5	0.5947	23.62	14.43	38.05	-1.95	32.12	-34.07	QP	Coaxial
6	0.751	23.05	14.43	37.48	-2.52	30.10	-32.62	QP	Coaxial
7	13.8411	37.56	13.92	51.48	11.48	29.50	-18.02	PK	Coaxial



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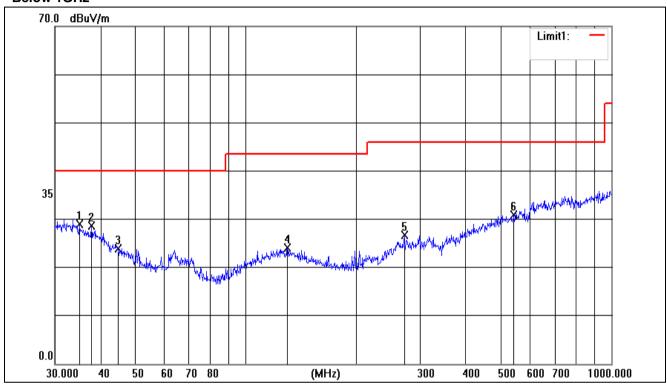
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#### **Below 1GHz**



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	Polarity
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	35.0048	3.38	24.64	28.02	40.00	-11.98	QP	Horizontal
2	37.8121	4.33	23.21	27.54	40.00	-12.46	QP	Horizontal
3	44.7433	2.91	19.96	22.87	40.00	-17.13	QP	Horizontal
4	129.9226	3.72	19.38	23.10	43.50	-20.40	QP	Horizontal
5	271.3246	5.40	20.33	25.73	46.00	-20.27	QP	Horizontal
6	541.3725	3.37	26.50	29.87	46.00	-16.13	QP	Horizontal



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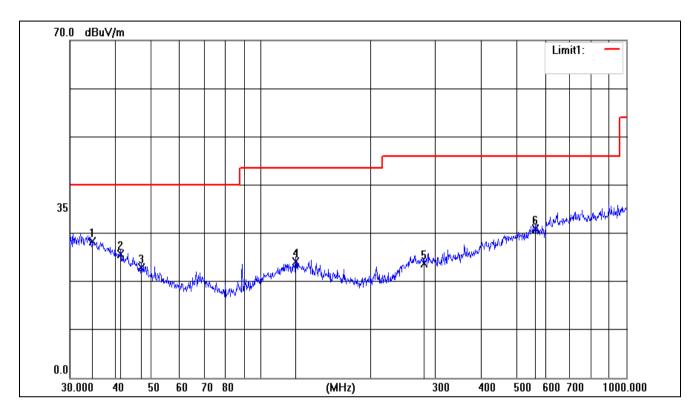
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	Polarity
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	34.6385	3.57	24.73	28.30	40.00	-11.70	QP	Vertical
2	41.2765	3.93	21.64	25.57	40.00	-14.43	QP	Vertical
3	47.1600	3.90	18.91	22.81	40.00	-17.19	QP	Vertical
4	124.5690	4.69	19.45	24.14	43.50	-19.36	QP	Vertical
5	280.0237	3.42	20.34	23.76	46.00	-22.24	QP	Vertical
6	562.6624	3.54	27.39	30.93	46.00	-15.07	QP	Vertical

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