

Project No. : **LBE20133899**

CCTV camera **SRD-443***

EMC TEST REPORT

Project No.	LBE20133899	Revision No.	None
Applicant	Name of organization	Samsung TECHWIN Co., Ltd.	
	Address	28, Seongju-dong Changwon-si, Gyeongsangsam-do, Rep of Korea	
	Date of application	July 22 2013	
EUT Equipment Under Test	Kind of product	CCTV	
	Model No.	SRD-443*	
		The symbo "*" can be any alphanumeric character or blank,not affecting EMC	
	Variant Model	None	
	Manufacturer	Attach the next page	
New / Alternative / Permissive change information	*) New		
Applied Standards		VCCI V-3/2012.04	
Test Period		July 22 2013~ July 22 2013	
Issued date		July 302013	
Test result : Complied The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
Tested by : Jie Yang 		Reviewed by : Zhongyuan Gao 	
The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from CSQAL.			
 TSEC Wei 4 Road, Microelectronics Industrial Park, Jingang High way, Tianjin, China Tel: 86 22 23961234, Fax: 86 22 23961234 - 5214			

Project No. : **LBE20133899**

CCTV camera **SRD-443***

Factories :

1. Samsung TECHWIN Co.,Ltd.
2. Tianjin Samsung TECHWIN Opto-Electronics Display Co., Ltd

Factories Address :

1. 28, Seongju-dong Changwon-si, Gyeongsangsam-do, Rep of Korea
2. No.11 Weiliu Rd. Micro-Electronic Industrial Park,Jingang Rd.Tianjin,300385 China

Table of contents

1. Summary of test results

1.1 Emission

2. General Information

2.1 Test facility

2.2 Accreditation and listing

3. Test Setup configuration

3.1 Test Peripherals

3.2 EUT operating mode(s)

3.3 Details of Sampling

3.4 Cable description

3.5 EUT description

3.6 Description of the EUT exercising method

3.7 Performance Criteria

3.8 Measurement uncertainty

4. Result of individual tests

4.1 Conducted disturbance

4.2 Radiated disturbance (30MHz to 6GHz)

Appendix A – EUT photography

1. Summary of test results

1.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result	Remarks
☒	Conducted Disturbance	VCCI V-3/2012.04	Complied	Meets Class A Limit
☒	Radiated Disturbance		Complied	Meets Class A Limit

2. General Information

2.1 Test facility

CSQAL is LOCATED ON Block D, 17-19 ,MIP Fourth Road, Jingang Highway, Tianjin China
All testing are performed in Semi-anechoic chambers conforming to the site attenuation Characteristics defined by ANSI C63.4, CISPR 22, 16-1 and 16-2. and Shielded rooms.

CSQAL is operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

2.2 Accreditation and listing

Laboratory Qualifications		Remarks
	FCC(Federal Communications Commission)	Number: 745469
	Korea Communications Commission Radio Research Agency	Accredited : KR0148
	KC (Korean Testing Laboratory)	KTL-002/SMT
	VCCI (Voluntary Control Council for Interference by Information Technology Equipment)	Member No: 271
	NVLAP(National Voluntary Laboratory Accreditation Program)	CODE: 500036-0
	CNAS (China National Accreditation Service for Conformity Assessment)	L5281

Test Power:110v@60Hz

3. Test Setup configuration

3.1 Cable description & Peripherals

The type(s) of cables which were connected to the ports (of the EUT) are as follows:

No.	From the port of EUT	To	Length[m]	Shielded[Y/N]
1	Power in	DC adapter	2.0	No*)
2	Video out	Monitor	2.0	No*)
3	Video in#1~#4	Camera	2.0	No*)
4	Audio in #1~#2	Cable	2.0	No*)
5	Audio in #3~#4	PC	2.0	No*)
6	Audio OUT #3~#4	Monitor	2.0	No*)
7	VGA out	Monitor	1.5	Yes*)
8	RS 485	Camera	0.5	No*)
9	LAN	PC	2.5	No*)
10	USB	USB Memory	-	-
11	USB	USB Mouse	-	-

*) : Use the Ferrite Core

The peripherals which were interconnected to the EUT during the test are as follows:

Item	Model No.	Serial No.	Manufacturer	Note
adapter	FJ-SW1201000U	-	Samsung	-
Monitor	SMT-1930	ZTKWHVDB800023K	Samsung	-
Camera	SCD-2021RP	-	Samsung	
Camera	SCO-2040RP	-	Samsung	
Camera	SCO-3080RP	-	Samsung	
Camera	SCD-2021RN	-	Samsung	
USB Mouse	-	-	Samsung	

3.2 EUT operating mode(s)

To achieve compliance applied standard specification, the following mode(s) were made during compliance testing:

Operating Mode 1	CCTV
Operating Mode 1	Telecom

3.5 EUT Description

The following features describe EUT represented by this report:

SRD-443

4CH CIF Real Time H.264 Digital Video Recorder

		SRD-443
Video	Inputs	4 composite video 0.5~1 Vpp, 75 ohm
	Resolution	720x480 NTSC, 720x576 PAL
Live	Frame rate	120fps NTSC, 100fps PAL
	Resolution	720x480 NTSC, 720x576 PAL
	Multi Screen display	1/4/SEQUENCE/PIP
Performance		*
Operating System	Embedded	Linux
Recording	Compression	H.264
	Record Rate	NTSC: Up to 30fps @ 704x480 / PAL: Up to 25fps @ 704x576 NTSC: Up to 60fps @ 704x240 / PAL: Up to 50fps @ 704x288 NTSC: Up to 120fps @ 352x240 / PAL: Up to 100fps @ 352x288
	Mode	NTSC: Manual, Schedule (Continuous/Event), Event(Pre/Post) PAL: Manual, Schedule (Continuous/Event), Event(Pre/Post)
	Event	Video Loss, Motion(Level 1~10), Alarm
	Overwrite modes	Selectable (Stop/Continuous)
	Pre-alarm	Up to 5 sec.
	Post-Alarm	Up to 6 hour. (5, 10, 20, 30 sec, 1, 3, 5, 10, 20 min, 1, 2, 3, 4, 5, 6 hour)
	Search mode	Date/time, Event(Alarm/Motion), Back up
	Playback function	Fast Forward/Backward (x2, x4, x8, x16, x32, x64) ※ Backward Play with I-frame Only, Slow Forward/Backward (x1/2, x1/4, x1/8)
Network (IPv4)	Transmission speed	100/120fps
	Bandwidth	Up to (8)Mbps, Unlimited(8M)/2/1.5/1 Mbps/600/600/500/400/300/200/100/50 kbps
	Bandwidth control	Automatic
	Stream	CIF (H.264)
	Remote users Maximum	Search(2)/Live Unicast(4)/Multicast(20)
	Protocol support	
	Monitoring	Webviewer, CMS(Smart viewer, Net-I)
Smart phone	Platform	Android, iOS
	Protocol support	RTP, RTSP, HTTP, CGI
	Remote users Maximum	Live(1)
Storage	Internal HDD	Up to 1 SATA HDDs
	External (e-SATA Interface)	N/A
	DVD Writer (Back-up)	N/A
	USB (Back-up)	2 USB Ports
	File Format (Back-up)	BU(DVR Player), EXE(Include Player)
Security	Password Protection	1 Admin, 10 Group, 10 User per 1 Group
	Data Authentication	Watermark
Interface		
Monitors	VGA	1 VGA (1024x768) ※ (Main Composite or VGA selected in booting.)
	HDMI	Not Support
	Main Composite	1 BNC (1 Vp-p, 75 ohm)
	Spot Composite	Not Support
	Loop Outputs	Not Support
Audio	Inputs/Output	4 line in / 1 line out
	Compression	G.711
	Sampling rate	8KHz
Alarm	Inputs/Outputs	Terminal 4 Inputs (NO/NC) / Terminal 1 relay outputs (NO), Rating : 24VDC/1A, 125V AC/0.5A
	Remote notification	Notification via e-mail
Connections	Ethernet	1 RJ45 10/100 Base-T
	Serial interface	RS-485(Half) for PTZ, System Keyboard,
	USB	USB 2.0, 2 ports (Rear)
	e-SATA	N/A
	Application Support	Mouse, remote controller
	Protocol support	Samsung-E/ Samsung-T/ Pelco-D/ Pelco-p/Panasonic/ Phillips/ AD/ DIAMOND/ ERNA/ KALATEL/ VCL TP/VICON/ ELMO
General		
Electrical	Input Voltage/Current	DC12V Adaptor2A, 100~250VAC, 50~60Hz, Max 24watt
	Power consumption	Normal 10 W (with 1x HDD)
Environmental	Operating Temperature/Humidity	+0°C to +40°C (+32°F to +104°F) / 20%RH to 85%RH
Mechanical	Dimension (W x H x D)	TBD
	Weight (With hard disks)	TBD
	Rack mount kit	N/A
Language		English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands Portuguese, Swedish, Danish, Rumania, Serbia, Croatia, Hungary, Greek, Finnish, Norwegian, Korean, Japanese, Chinese(Traditional), Thailand, Taiwanese(25 Language)

Highest Frequency: 230MHz

3.6 Description of the EUT exercising method

The EUT exercise program used during EMI and Immunity (EMS) testing was CSQAL standardized test program. The program is camera operating.

3.7 Performance Criteria

During and/or after immunity testing, the EUT was monitored to the following performance criterion.

Criterion	Operating mode(s)	Description
A	1	No noticeable degradation or loss of function is allowed during the test. The EUT shall continue to operate as intended without operator intervention. The product conforms with the requirements of clause 7.1 of EN55024:2010 The product conforms with the requirements of Annex B.2 of EN55024:2010 The product conforms with the requirements of Annex C of EN55024:2010
B	1	No noticeable degradation or loss of function is allowed after the test. The EUT shall continue to operate as intended without operator intervention. During the test, no degradation of performance is allowed. No change of operating state or stored data is allowed to persist after the test. The product conforms with the requirements of clause 7.1 of EN55024:2010 The product conforms with the requirements of Annex B.2 of EN55024:2010 The product conforms with the requirements of Annex C of EN55024:2010.
C	1	Loss of function is allowed, provided that the function is self recoverable or can be restored by the operation of the controls by the user. The product conforms with the requirements of clause 7.1 of EN55024:2010. The product conforms with the requirements of Annex B.2 of EN55024:2010 The product conforms with the requirements of Annex C of EN55024:2010.

3.8 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4 and UKAS Lab 34.)

3.8.1 Emission

Test type		Measurement uncertainty (C.L. 95%, k = 2)
Conducted Disturbance	Main terminal	2.8 dB
Radiated Disturbance	Horizontal	4.96 dB
	Vertical	4.62 dB

4. Results of individual test

4.1 Conducted disturbance

Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

The EUT measured in accordance with the methods described in standards.

Limits for conducted disturbance at the mains ports of class A ITE

Frequency range Limits MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

Note 1: 1 μV is regarded as 0 dB.
 Note 2: If the average limit is met in the measurement with quasi-peak detector, the measurement with average detector at the same frequency is unnecessary.
 Note 3: The lower limit shall apply at the transition frequency.

Limits of conducted common mode (asymmetric mode) disturbance at telecommunication ports for class A equipment

Frequency range Limits MHz	Voltage limits dB(μV)		Current limits dB(μA)	
	Quasi-peak	Quasi-peak	Quasi-peak	Average
0,15 to 0,50	97 to 87	84 to 74	53 to 43	40 to 30
0,50 to 30	87	74	43	30

Note 1: 1 μV is regarded as 0 dB. 1 μA is regarded as 0dB.
 Note 2: The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.
 Note 3: If the average limit is met in a measurement with quasi-peak detector receiver, the measurement with average detector receiver at the same frequency is unnecessary.
 Note 4: The conversion factor between voltage limits and current limits is $20 \log_{10} 150/I = 44$ dB.

If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 seconds at each measurement frequency, the highest reading shall be recorded, with the exception of any brief isolated high reading (which shall be ignored).

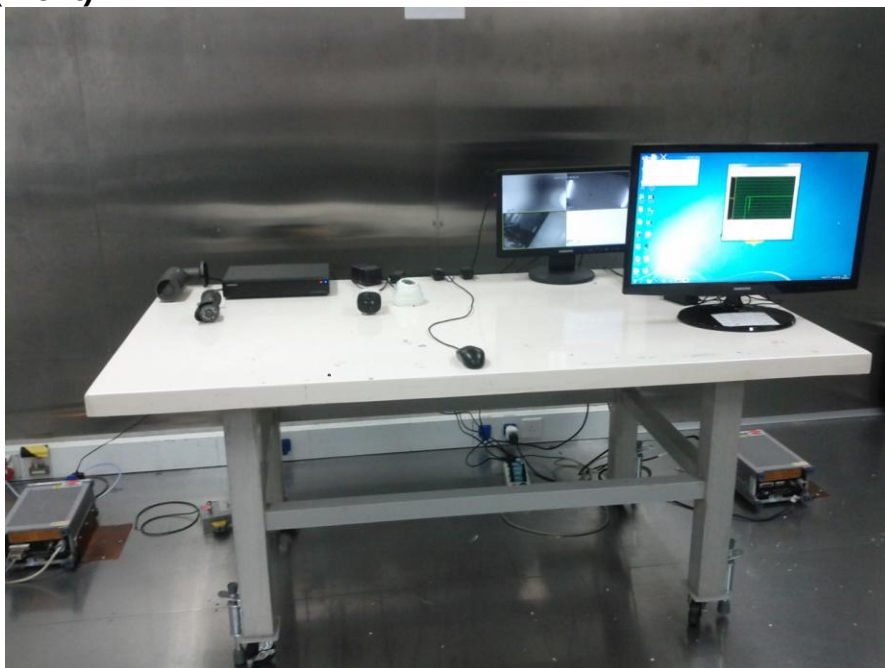
4.1.1 Test instrumentation

Test instrumentations which were used in the Conducted disturbance test are as follows;

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5CE	TOYO	V 4.7.10	N/A	N/A
Measuring receiver	ESCI	R&S	101027	2013.03.02	12
Artificial mains network	ENV216	R&S	101122	2012.08.23	12
Artificial mains network	ENV216	R&S	101059	2012.08.23	12
ISN	ISN T800	TESEQ	28602	2012.08.23	12
ISN	ISN T8-CAT6	TESEQ	27286	2013.03.02	12

4.1.2 Photograph of the test Configuration

(Front)



(Rear)



Project No. : LBE20133899

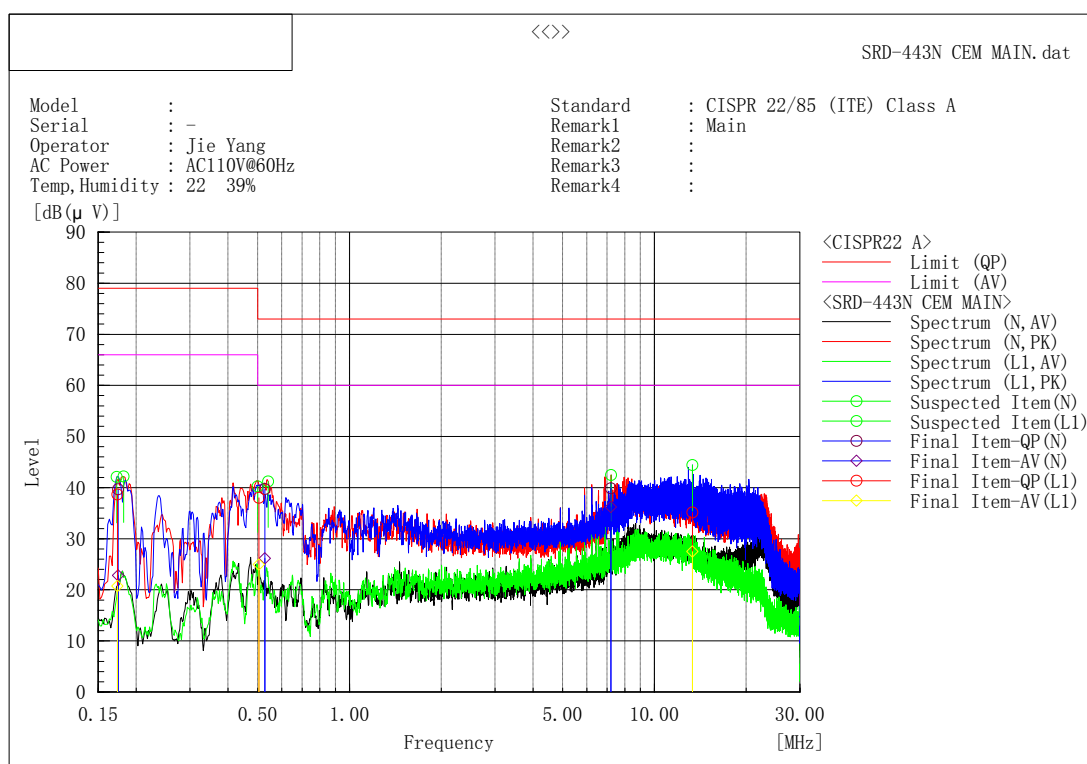
CCTV camera SRD-443*

4.1.3 Test result

Test date	2013.07.22		Test engineer		Jie Yang	
Climate condition	Ambient temperature	22 °C	Relative humidity	39%	Atmospheric pressure	100.8kPa
Test place	Shielded Room #2					

4.1.4 Test data

■ Operating Mode: CCTV operating



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	7.20359	30.1	26.4	9.8	39.9	36.2	73.0	60.0	33.1	23.8	
2	0.5276	30.1	16.5	9.6	39.7	26.1	73.0	60.0	33.3	33.9	
3	0.17436	30.1	13.2	9.6	39.7	22.8	79.0	66.0	39.3	43.2	

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	13.33688	25.2	17.6	9.9	35.1	27.5	73.0	60.0	37.9	32.5	
2	0.17335	29.0	11.1	9.6	38.6	20.7	79.0	66.0	40.4	45.3	
3	0.50518	28.4	15.3	9.6	38.0	24.9	73.0	60.0	35.0	35.1	

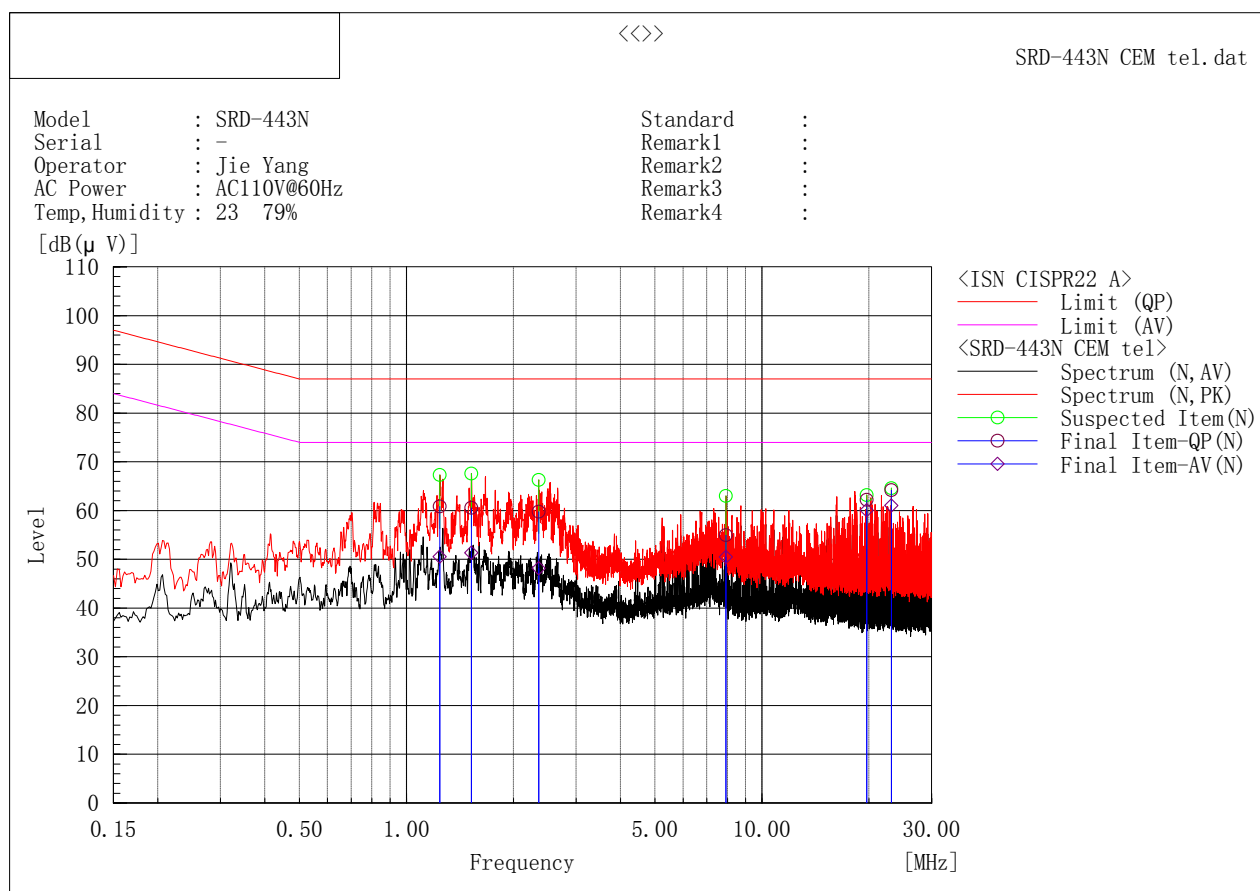
Note) Result (Quasi-Peak and/or Average) = Reading (Quasi-Peak and/or Average) +
c.f (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

Project No. : LBE20133899

CCTV camera SRD-443*

Operating Mode: Telecom



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	1.52424	51.1	41.8	9.5	60.6	51.3	87.0	74.0	26.4	22.7	
2	1.24114	51.2	40.9	9.6	60.8	50.5	87.0	74.0	26.2	23.5	
3	7.92297	45.5	41.0	9.5	55.0	50.5	87.0	74.0	32.0	23.5	
4	23.12987	54.7	51.5	9.5	64.2	61.0	87.0	74.0	22.8	13.0	
5	2.35478	50.3	38.7	9.5	59.8	48.2	87.0	74.0	27.2	25.8	
6	19.70976	52.7	50.5	9.5	62.2	60.0	87.0	74.0	24.8	14.0	

Note) Result (Quasi-Peak and/or Average) = Reading (Quasi-Peak and/or Average) +
 c.f (LISN Insertion Loss + Cable Loss)

Margin = Limit – Level (Quasi-Peak and/or Average)

4.2 Radiated disturbance (30MHz to 1GHz)

4.2 Radiated emission

Of those disturbances above ($L - 20\text{dB}$), where L is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin. All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 10 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated emission of digital devices

Frequency range Limits (MHz)	Field strength ($\mu\text{V/m}$)	
	Class A (a distance of 10 meters)	Class B (a distance of 3 meters)
30 to 230	40	30
230 to 1000	47	37

Measurements above 1GHz were performed at an antenna to EUT distance of 3 meters and elevated 1 to 4 meters in FAC. Both vertical and horizontal antenna polarizations were measured.

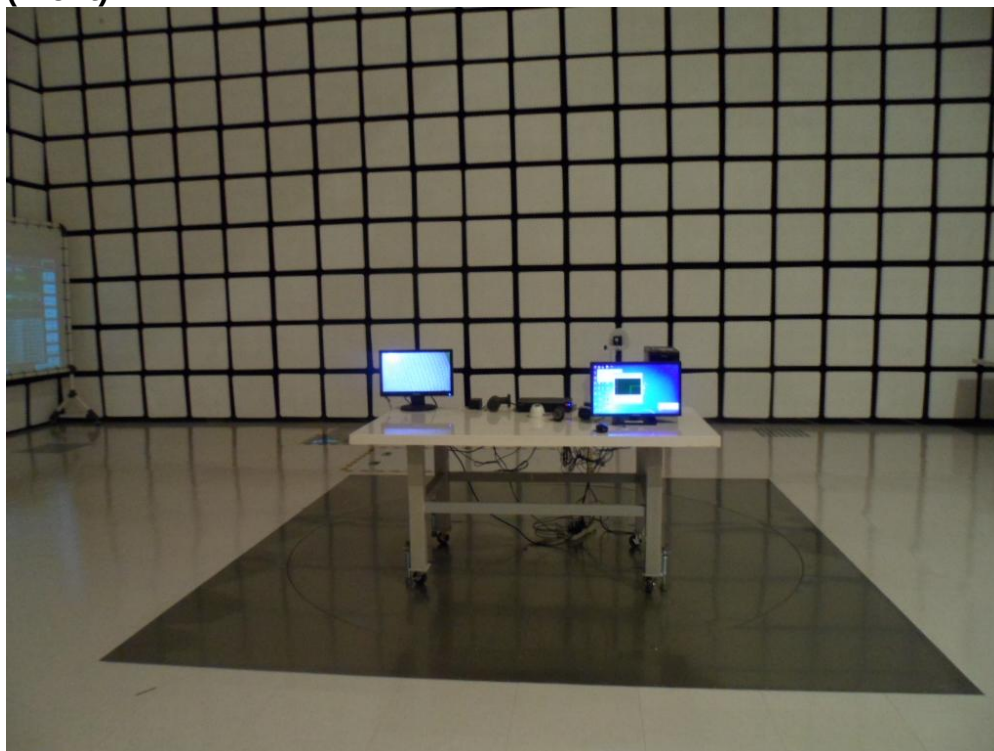
4.2.1 Test instrumentation

Test instrumentations which were used in the Radiated disturbance are as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5/RE	TOYO	V 4.7.10	N/A	N/A
Bi-log Antenna	CBL6112D	TESEQ	30997	2013.04.03	24
Bi-log Antenna	CBL6112D	TESEQ	30999	2013.04.03	24
EMI Receiver	ESU26	R&S	100244	2013.03.02	12
EMI Receiver	ESCI	R&S	101024	2013.03.02	12
EMI Receiver	ESCI	R&S	101032	2013.03.02	12
AMPLIFIER	310N	SONOMA	300913	2012.08.23	12
AMPLIFIER	310N	SONOMA	300914	2012.08.23	12
Ant Mast	MA4000	INN CO	-	N/A	N/A
Ant Mast	MA4000	INN CO	-	N/A	N/A
Mast Controller	CO2000	INN CO	-	N/A	N/A
RF Selector	NS4900N	TOYO	-	N/A	N/A
RF Selector	NS4900N	TOYO	-	N/A	N/A

4.2.2 Photograph of the test Configuration

(Front)



(Rear)

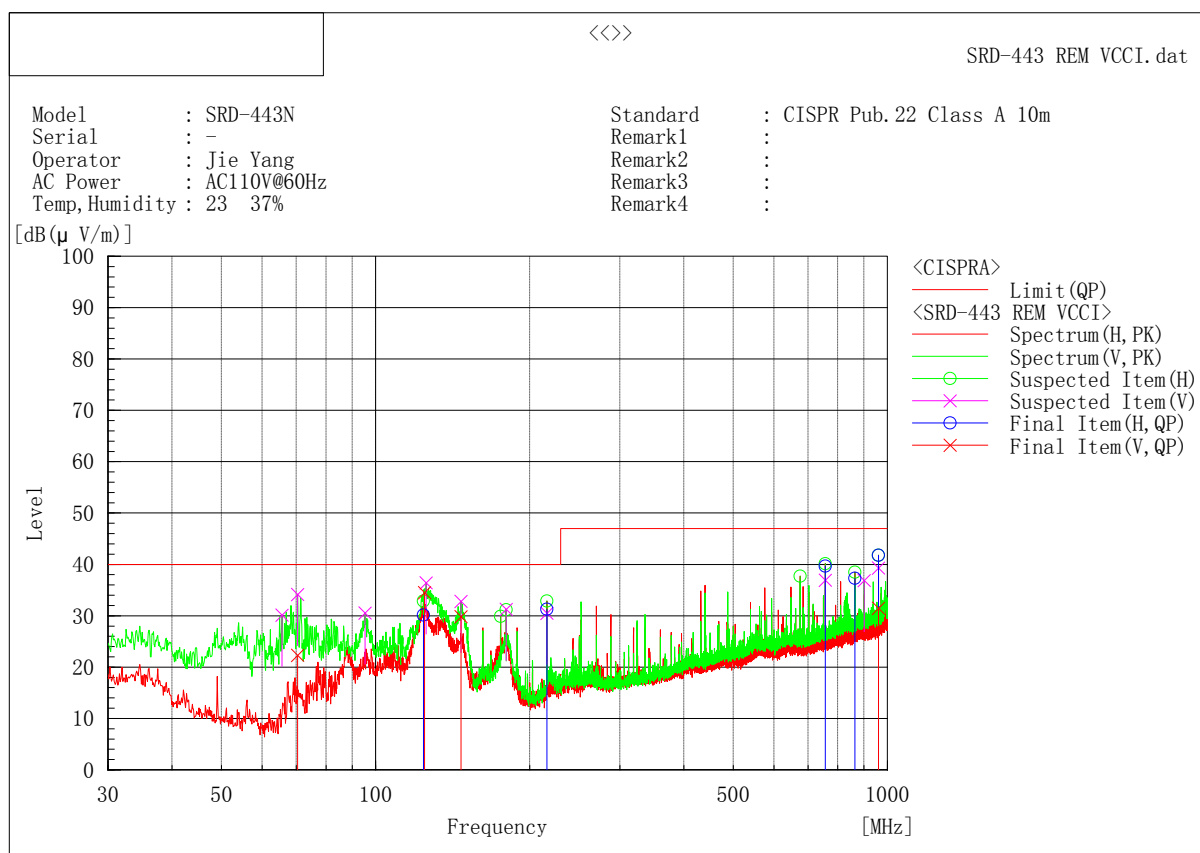


4.2.3 Test results

Test date	2013.07.22		Test engineer		Jie Yang	
Climate condition	Ambient temperature	23	Relative humidity	37%	Atmospheric pressure	100.8 kPa
Test place	10m Semi-Anechoic Chamber					

4.2.4 Test data

■ Operating Mode: CCTV Camera Operating



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	System	Remark
1	960.092	H	41.6	0.2	41.8	47.0	5.2	100.0	214.7	1	
2	124.569	V	48.2	-13.7	34.5	40.0	5.5	100.0	312.5	2	
3	756.045	H	42.4	-2.8	39.6	47.0	7.4	100.0	295.8	1	
4	70.376	V	42.9	-20.6	22.3	40.0	17.7	201.0	56.3	2	
5	123.969	H	44.5	-14.4	30.1	40.0	9.9	400.0	247.7	1	
6	146.764	V	44.4	-14.6	29.8	40.0	10.2	100.0	43.4	2	
7	215.998	H	47.6	-16.3	31.3	40.0	8.7	400.0	260.0	1	
8	960.109	V	29.4	2.1	31.5	47.0	15.5	201.0	292.6	2	
9	864.079	H	38.5	-1.2	37.3	47.0	9.7	100.0	324.4	1	

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 10m, Antenna Height : 1 to 4 meters

Result (Quasi-Peak) = Reading QP + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP

4.3 Radiated disturbance (1GHz to 6GHz)

Of those disturbances above ($L - 20\text{dB}$), where L is the limit level in logarithmic units, record at least the disturbance levels and the frequencies of the six highest disturbances.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin. All measurements were taken utilizing peak and average detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 3 meters and elevated 1 meter. Both vertical and horizontal antenna polarizations were measured. Including the worst-case data points for each tested configuration.

Limits for radiated disturbance of ITE at a measuring distance of 3 m

Frequency range Limits GHz	Limits dB($\mu\text{V/m}$)	
	Average	Peak
1 to3	56	76
3 to6	60	80

Note: The lower limit applies at the transition frequency

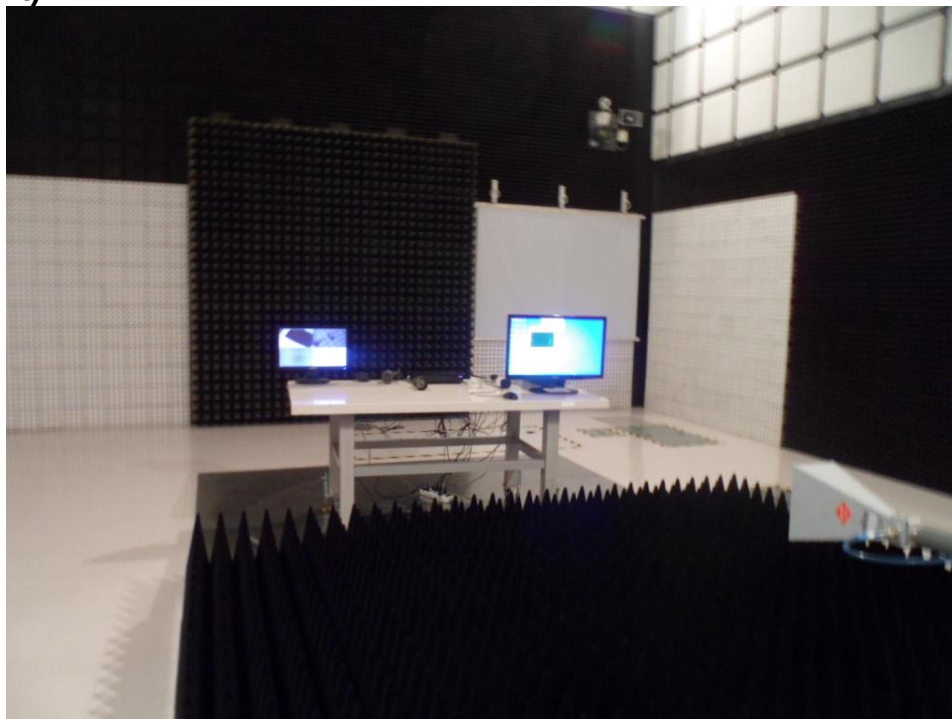
4.3.1 Test instrumentation

Test instrumentations which were used in the Radiated disturbance are as follows:

Test instrumentation	Model name	Manufacturer	Serial or Firmware (No./Ver.)	Calibration	
				Date	Interval (Month)
Test Software	EP5/RE	TOYO	V 4.7.10	N/A	N/A
Broad-Band Horn Antenna	BBHA9120B	Schwarzbeck	521	2011.04.05	24
EMI Receiver	ESU26	R&S	100243	2012.03.02	12
AMPLIFIER	TPA0108-40	TOYO	0934	2012.08.23	12
Ant Mast	MA4000	INN CO	-	N/A	N/A
Mast Controller	CO2000	INN CO	-	N/A	N/A
Table Controller	CO2000	INN CO	-	N/A	N/A

4.3.2 Photograph of the test Configuration

(Front)



(Rear)

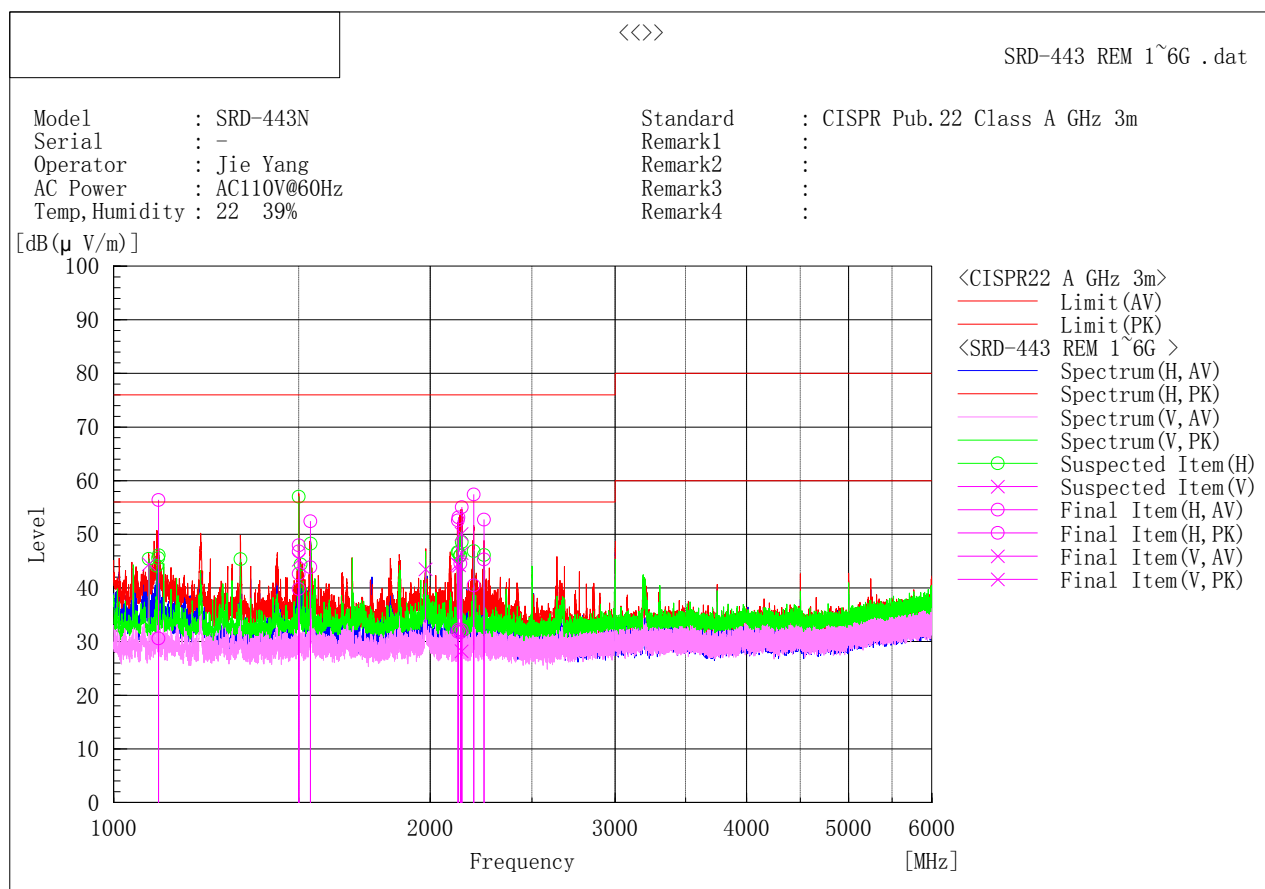


4.3.3 Test results

Test date	2013.07.23		Test engineer		Yangjie	
Climate condition	Ambient temperature	22℃	Relative humidity	39%	Atmospheric pressure	100.6 kPa
Test place	3m modified semi-anechoic chamber					

4.3.4 Test data

■ Operating Mode: CCTV



Final Result

No.	Frequency [MHz]	(P)	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [°]	Remark
1	2250.074	H	59.9	67.3	-14.6	45.3	52.7	56.0	76.0	10.7	23.3	101.0	334.0	
2	1539.068	H	59.4	67.9	-15.5	43.9	52.4	56.0	76.0	12.1	23.6	100.0	324.4	
3	2200.056	H	55.1	72.0	-14.6	40.5	57.4	56.0	76.0	15.5	18.6	102.0	321.3	
4	2128.168	H	47.0	68.0	-14.8	32.2	53.2	56.0	76.0	23.8	22.8	106.0	133.5	
5	2143.405	H	47.0	69.9	-14.8	32.2	55.1	56.0	76.0	23.8	20.9	100.0	132.4	
6	2125.454	H	46.6	67.4	-14.8	31.8	52.6	56.0	76.0	24.2	23.4	106.0	133.6	
7	2137.651	H	46.5	59.3	-14.8	31.7	44.5	56.0	76.0	24.3	31.5	111.0	23.3	
8	1103.354	H	46.6	72.4	-16.0	30.6	56.4	56.0	76.0	25.4	19.6	104.0	345.0	
9	2143.130	V	43.0	64.9	-14.8	28.2	50.1	56.0	76.0	27.8	25.9	101.0	149.9	
10	1500.037	H	55.4	62.4	-15.6	39.8	46.8	56.0	76.0	16.2	29.2	111.0	141.8	
11	1500.038	H	58.2	63.5	-15.6	42.6	47.9	56.0	76.0	13.4	28.1	101.0	302.8	

Appendix A – EUT photography (Front)



(Rear)



Project No. : **LBE20133899**

CCTV camera **SRD-443***

(Side)



Project No. : **LBE20133899**

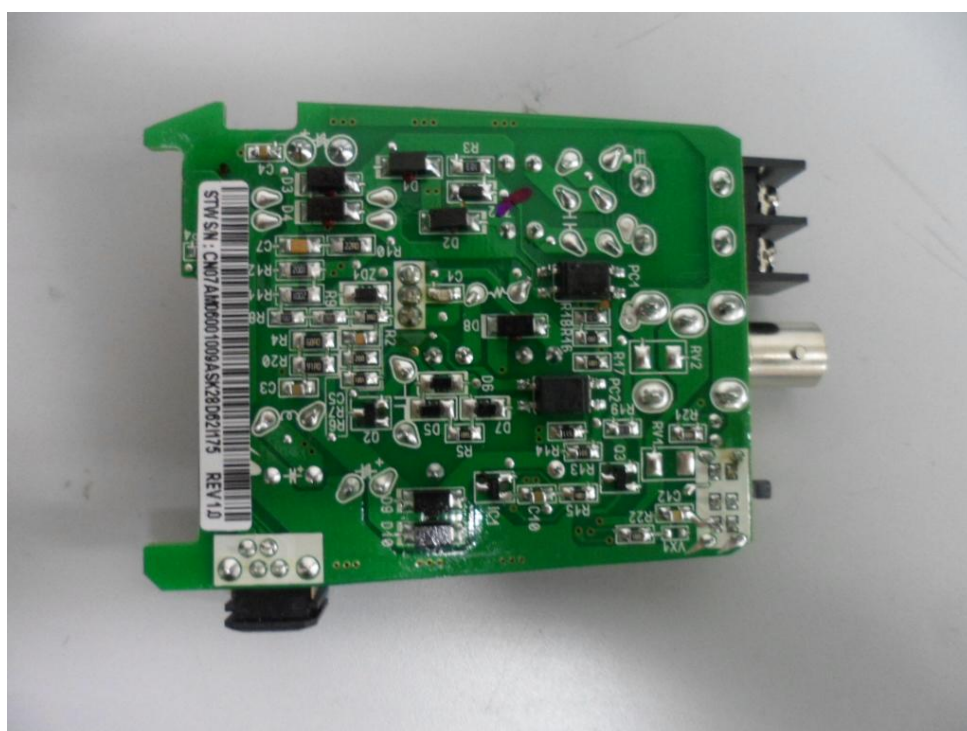
CCTV camera **SRD-443***



Project No. : LBE20133899

CCTV camera SRD-443*

(Main Board)



Project No. : LBE20133899

CCTV camera SRD-443*

(LED Board)



Project No. : LBE20133899

CCTV camera SRD-443*

(Disk)



Project No. : **LBE20133899**

CCTV camera **SRD-443***

(CRYSTAL)



(Adaptor)



Project No. : **LBE20133899**

CCTV camera **SRD-443***

