

# CE Test Report

Product Name : IPC

Model No. : VTC6210-RA, VTC6210-RF, VTC6210-RX-XXXXXX

(X = 0~9, A~Z, a~z or Blank)

Applicant : NEXCOM International Co., LTD

Address : 9F, No.920, Chung-Cheng Rd.,Zhonghe Dist.,  
New Taipei City 235, Taiwan.

Date of Receipt : 2015/08/20

Issued Date : 2015/09/30

Report No. : 1580583R-ITCEP01V00

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issued Date : 2015/09/30  
Report No. : 1580583R-ITCEP01V00



Product Name : IPC  
Applicant : NEXCOM International Co., LTD  
Address : 9F, No.920, Chung-Cheng Rd.,Zhonghe Dist., New Taipei  
City 235, Taiwan.  
Manufacturer : NEXCOM International Co., LTD  
Model No. : VTC6210-RA, VTC6210-RF, VTC6210-RX-XXXXXX  
(X = 0~9, A~Z, a~z or Blank)  
EUT Rated Voltage : DC 24V, DC 36V, DC 110V  
EUT Test Voltage : DC 24V, DC 36V, DC 110V  
Trade Name : NEXCOM  
Applicable Standard : EN 55022:2010 + AC: 2011, Class A  
EN 55024: 2010  
Test Result : Complied  
Performed Location : Quietek Corporation (Linkou Laboratory)  
No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451,  
Taiwan, R.O.C.  
TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

Documented By : Anny Chou  
( Senior Adm. Specialist / Anny Chou )

Reviewed By : Simon Tsai  
(Assistant Engineer / Simon Tsai)

Approved By : [Signature]  
( Director / Vincent Lin )

## Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

<b>Taiwan R.O.C.</b>	<b>:</b>	<b>BSMI, NCC, TAF</b>
<b>USA</b>	<b>:</b>	<b>FCC</b>
<b>Japan</b>	<b>:</b>	<b>VCCI</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### **HsinChu Testing Laboratory :**

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.

TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : [service@quietek.com](mailto:service@quietek.com)

### **Linkou Testing Laboratory :**

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.

TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : [service@quietek.com](mailto:service@quietek.com)

### **Suzhou (China) Testing Laboratory :**

No. 99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou,China.

TEL : +86-512-6251-5088 / FAX : +86-512-6251-5098 E-Mail : [service@quietek.com](mailto:service@quietek.com)

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## 1. General Information

### 1.1. EUT Description

Product Name	IPC
Trade Name	NEXCOM
Model No.	VTC6210-RA, VTC6210-RF, VTC6210-RX-XXXXXX (X = 0~9, A~Z, a~z or Blank)

Component	
CPU	Intel E3845 Speed: 1.91GHz
Mother Board	NEXCOM, VTC6210-R
SSD (64GB)	Inno Disk, 3MG2-P
VGA Card	On Board
LAN Card	On Board
Sound Card	On Board
DDR-RAM DDR3 (2G)	Transcend, C23260-0349
M12 to USB (*2) Cable	Shielded, 0.4m
M12 to LAN Cable	Shielded, 1.8m
GSP Cable	Non-Shielded, 5m

**1.2. Mode of Operation**

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode
Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V
Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V
Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V
Final Test Mode
Emission
Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V
Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V
Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V
Immunity
Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V
Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V
Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V

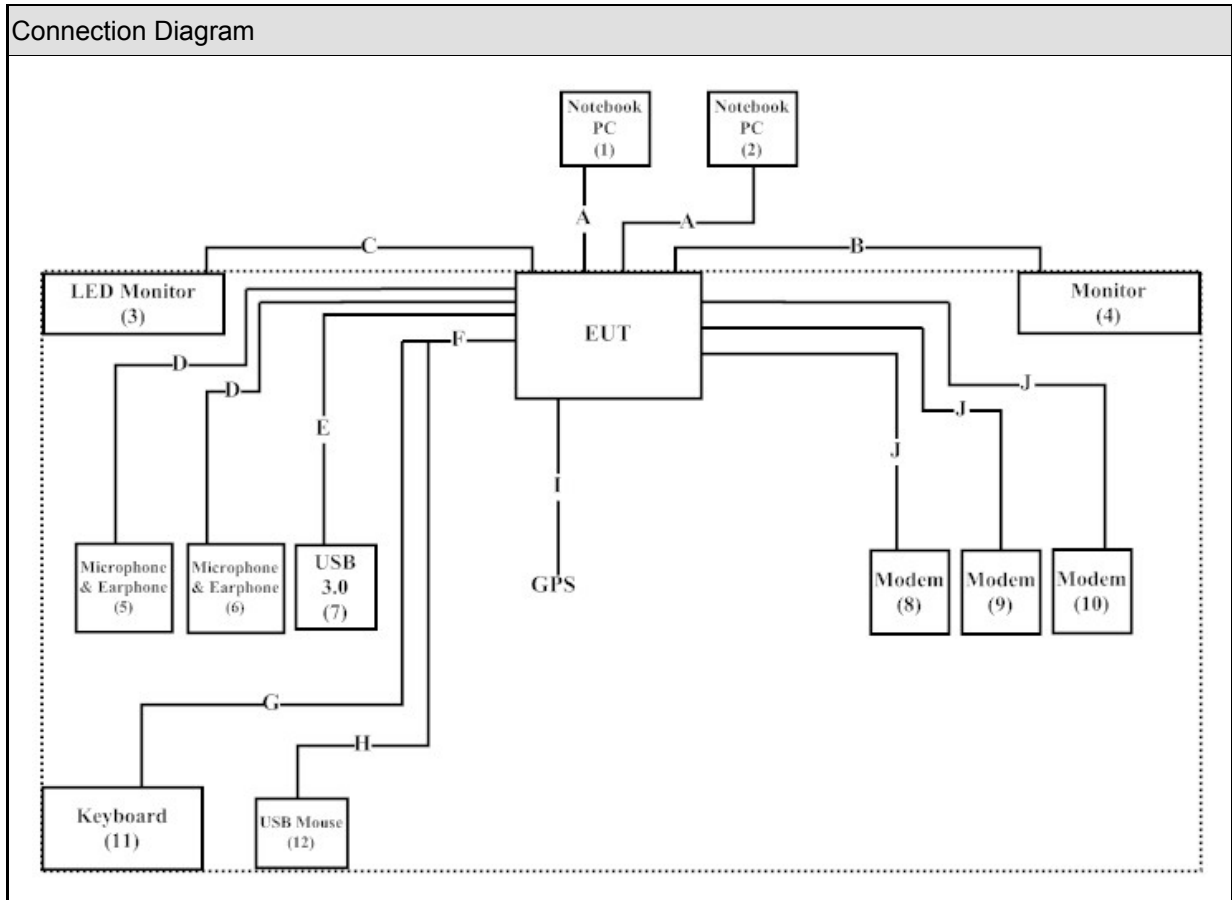


### 1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	E5530	24QPXW1	Non-Shielded, 0.8m
2 Notebook PC	DELL	XPS	J0V3TY1	Non-Shielded, 0.8m
3 LED Monitor (EMI)	DELL	UP2414Q	CN-0W09C2-74445-43D-007L	Non-Shielded, 1.8m
LED Monitor (EMS)	AOC	U2868PQU	HCXE9JA000537	Non-Shielded, 1.8m
4 Monitor (EMI)	DELL	U2410f	CN-082WXD-72872-16E-060L	Non-Shielded, 1.8m
Monitor (EMS)	LG	W2261VT	907YHZK07373	Non-Shielded, 1.8m
5 Microphone & Earphone	Ergotech	E201	N/A	N/A
6 Microphone & Earphone	Ergotech	E201	N/A	N/A
7 USB 3.0(2T) (EMI)	WD	WDBACW0020HBK	WCAZAL306248	Non-Shielded, 1.5m
USB 3.0(1T) (EMS)	Transcend	TS1TSJ25M3	C13890-3746	N/A
8 Modem	ACEEX	DM-1414	0102027553	Non-Shielded, 1.5m
9 Modem	ACEEX	DM-1414	0102027547	Non-Shielded, 1.5m
10 Modem	ACEEX	DM-1414	0102027541	Non-Shielded, 1.5m
11 Keyboard	Logitech	Y-U0009	LZ027HU	N/A
12 USB Mouse (EMI)	Logitech	M-U0003	LZ024HR	N/A
USB Mouse (EMS)	Logitech	M-U0026	1245HS0684H8	N/A

### 1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	M12 to LAN Cable	Shielded, 1.8m, two PCS.
B	D-SUB Cable	Shielded, 1.8m, with two ferrite cores bonded.
C	Display Cable	Shielded, 1.8m
D	Microphone & Earphone Cable	Non-Shielded, 2m, two PCS.
	Microphone & Earphone Cable	Non-Shielded, 2m, two PCS.
E	USB 3.0 Cable (For EMI)	Shielded, 1m
	USB 3.0 Cable (For EMS)	Shielded, 0.5m
F	M12 to USB (*2) Cable	Shielded, 0.4m
G	USB Keyboard Cable	Shielded, 1.8m
H	USB Mouse Cable	Shielded, 1.8m
I	GPS Cable	Non-Shielded, 5m
J	RS-232 Cable	Shielded, 1.5m, three PCS.

### 1.5. EUT Exercise Software

(1)	Setup the EUT and simulators as shown on 1.4.
(2)	Turn on the power of all equipments.
(3)	All the features of the EUT operation normally.

## 2. Technical Test

### 2.1. Summary of Test Result

- No deviations from the test standards  
 Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	EN 55022: 2010 + AC: 2011	No	No
Impedance Stabilization Network	EN 55022: 2010 + AC: 2011	Yes	No
Radiated Emission	EN 55022: 2010 + AC: 2011	Yes	No
Power Harmonics	EN 61000-3-2: 2014	No	No
Voltage Fluctuation and Flicker	EN 61000-3-3: 2013	No	No

Immunity			
Performed Item	Normative References	Test Performed	Deviation
Electrostatic Discharge	IEC 61000-4-2 Ed. 2.0: 2008	Yes	No
Radiated susceptibility	IEC 61000-4-3 Ed. 3.2: 2010	Yes	No
Electrical fast transient/burst	IEC 61000-4-4 Ed. 3.0: 2012	Yes	No
Surge	IEC 61000-4-5 Ed. 2.0: 2005	Yes	No
Conducted susceptibility	IEC 61000-4-6 Ed. 3.0: 2013	Yes	No
Power frequency magnetic field	IEC 61000-4-8 Ed. 2.0: 2009	Yes	No
Voltage dips and interruption	IEC 61000-4-11 Ed. 2.0: 2004	No	No

## 2.2. List of Test Equipment

### Impedance Stabilization Network / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Capacitive Voltage Probe	Schaffner	CVP2200A	18331	2014/10/23
EMI Test Receiver	R&S	ESCS 30	100367	2014/12/10
LISN	R&S	ENV216	100085	2015/01/19
LISN	R&S	ESH3-Z5	836679/023	2015/01/19
Pulse Limiter	R&S	ESH3-Z2	357.8810.52-1	2015/09/17
RF Current Probe	FCC	F-65 10KHz~1GHz	198	2014/10/23
Coaxial Cable	QTK(Arnist)	RG 400	LC016-RG	2015/06/24
Coupling Decoupling Network	Teseq	CDN ST08A	33998	2015/08/08
Coupling Decoupling Network	Teseq	CDN T800	30303	2015/03/30
BALANCED TELECOM ISN	FCC	FCC-TLISN-T2-02	20316	2015/07/25

### Radiated Emission / Site4

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2929	2015/06/12
EMI Test Receiver	R&S	ESCS 30	825442/018	2014/12/16
Coaxial Cable	QTK(Arnist)	RG 214	LC004-RG	2015/06/18
Coaxial signal switch	Arnist	MP59B	6201415887	2015/06/18
Site4 NSA	QTK	N/A	N/A	2015/06/18

### Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESU26	100433	2015/07/31
Horn Antenna	ETS-Lindgren	3117	00135205	2015/04/01
Horn Antenna	SCHWARZBECK	9120D	576	2014/11/21
Pre-Amplifier	COM-POWER	PAM-118	443019	2015/07/14
CB7 VSWR	QTK	N/A	N/A	2015/06/25

### Electrostatic Discharge / SR6

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
ESD Simulator System	Noiseken	ESS2002EX	ESS0929057	2015/06/30
ESD GUN	Noiseken	TC-815R	ESS0929097	2015/06/30
Horizontal Coupling Plane(HCP)	QuieTek	HCP AL50	N/A	N/A
Vertical Coupling Plane(VCP)	QuieTek	VCP AL50	N/A	N/A

### Radiated susceptibility / CB5

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Signal Generator	R&S	SMB100A	106404	2015/05/08
Power Meter	R&S	NRVD(P.M)	100219	2015/05/08
Biconilog Antenna	EMCO	3149	00071675	N/A
Power Amplifier	A&R	30S1G3	309453	N/A
Power Amplifier	SCHAFFNER	CBA9413B	4020	N/A
uniform field calibration	QTK	N/A	N/A	2015/05/19

Electrical fast transient/burst / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
TRANSIENT TEST SYSTEM	EMC PARTNER	TRA2000IN6	1138	2015/04/08

Surge / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
TRANSIENT TEST SYSTEM	EMC PARTNER	TRA2000IN6	1138	2015/04/08

Conducted susceptibility / SR6

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
TESEQ RF-Generator	TESEQ	NSG 4070B-30	37490	2015/01/20

Power frequency magnetic field / SR3

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
AC Power Source (Harmonic)	TESEQ	NSG 1007-5	1530A00015	2015/07/30
Magnetic Loop Coil	Schaffner	INA 702	160	2015/07/21

## 2.3. Measurement Uncertainty

### Impedance Stabilization Network

The measurement uncertainty is evaluated as  $\pm 2.26$  dB.

### Radiated Emission

The measurement uncertainty is evaluated as  $\pm 3.19$  dB.

### Electrostatic Discharge

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in ESD testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant ESD standards. The immunity test signal from the ESD system meet the required specifications in IEC 61000-4-2 through the calibration report with the calibrated uncertainty for the waveform of current and timing as being 2.5 % and 6%.

### Radiated susceptibility

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in RS testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant RS standards. The immunity test signal from the RS system meet the required specifications in IEC 61000-4-3 through the calibration for the uniform field strength and monitoring for the test level with the uncertainty evaluation report for the electrical field strength as being 3.57 dB.

### Electrical fast transient/burst

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in EFT/Burst testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant EFT/Burst standards. The immunity test signal from the EFT/Burst system meet the required specifications in IEC 61000-4-4 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 8.4 % and 4.7%.

### Surge

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in Surge testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant Surge standards. The immunity test signal from the Surge system meet the required specifications in IEC 61000-4-5 through the calibration report with the calibrated uncertainty for the waveform of voltage and timing as being 4.1 % and 3.9%.

#### Conducted susceptibility

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in CS testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant CS standards. The immunity test signal from the CS system meet the required specifications in IEC 61000-4-6 through the calibration for unmodulated signal and monitoring for the test level with the uncertainty evaluation report for the injected modulated signal level through CDN and EM Clamp/Direct Injection as being 2.0 dB and 2.61 dB.

#### Power frequency magnetic field

As what is concluded in the document from Note2 of clause 5.4.6.2 of ISO/IEC 17025, the requirements for measurement uncertainty in PFM testing are deemed to have been satisfied, and the testing is reported in accordance with the relevant PFM standards. The immunity test signal from the PFM system meet the required specifications in IEC 61000-4-8 through the calibration report with the calibrated uncertainty for the Gauss Meter to verify the output level of magnetic field strength as being 1.0 %.



**2.4. Test Environment**

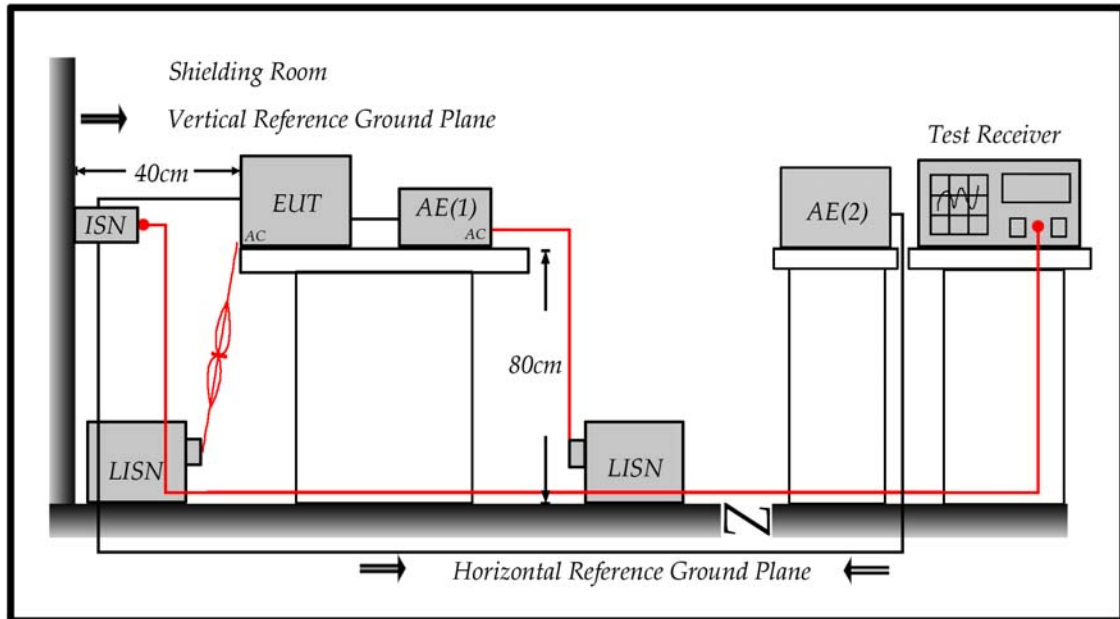
Performed Item	Items	Required	Actual
Impedance Stabilization Network	Temperature (°C)	15-35	30
	Humidity (%RH)	25-75	43
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	30
	Humidity (%RH)	25-75	43
	Barometric pressure (mbar)	860-1060	950-1000
Electrostatic Discharge	Temperature (°C)	15-35	23
	Humidity (%RH)	30-60	55
	Barometric pressure (mbar)	860-1060	950-1000
Radiated susceptibility	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	52
	Barometric pressure (mbar)	860-1060	950-1000
Electrical fast transient/burst	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	60
	Barometric pressure (mbar)	860-1060	950-1000
Surge	Temperature (°C)	15-35	23
	Humidity (%RH)	10-75	59
	Barometric pressure (mbar)	860-1060	950-1000
Conducted susceptibility	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	55
	Barometric pressure (mbar)	860-1060	950-1000
Power frequency magnetic field	Temperature (°C)	15-35	23
	Humidity (%RH)	25-75	60
	Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emissions (Telecommunication Ports)

#### 3.1. Test Specification

According to EMC Standard : EN 55022

#### 3.2. Test Setup



#### 3.3. Limit

Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	97 – 87	84 – 74
0.50 - 30	87	74

Remarks:

The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz.

### **3.4. Test Procedure**

#### **Telecommunication Port:**

The mains voltage shall be supplied to the EUT via the LISN when the measurement of telecommunication port is performed. The common mode disturbances at the telecommunication port shall be connected to the ISN, which is 150 ohm impedance.

Both alternative cables are tested related to the LCL requested. The measurement range is from 150kHz to 30MHz. The bandwidth of measurement is set to 9kHz.

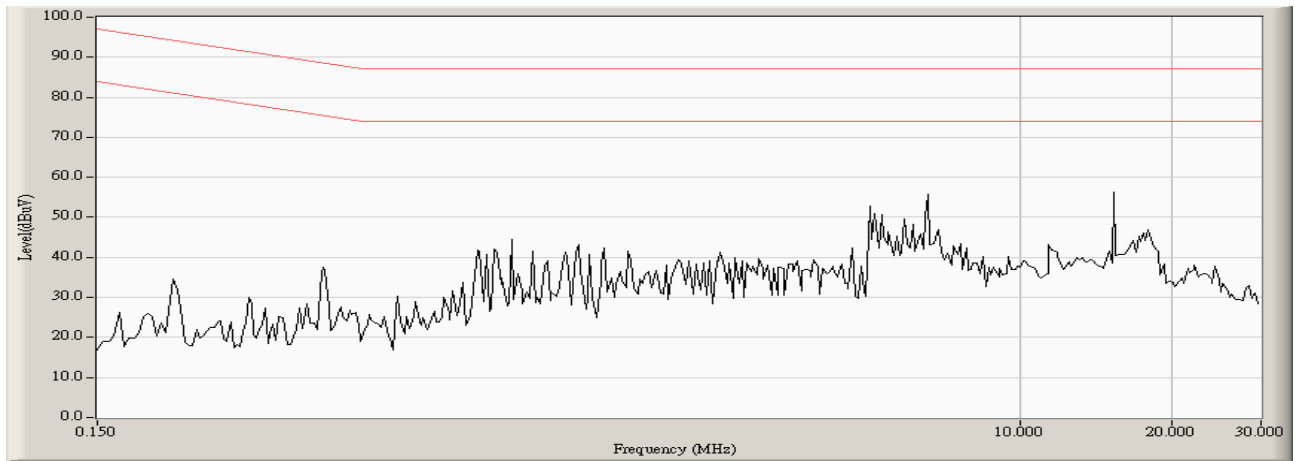
The 75dB LCL ISN is used for cat. 6 cable, the 65dB LCL ISN is used for cat. 5 cable, 55dB LCL ISN is used for cat. 3.

### **3.5. Deviation from Test Standard**

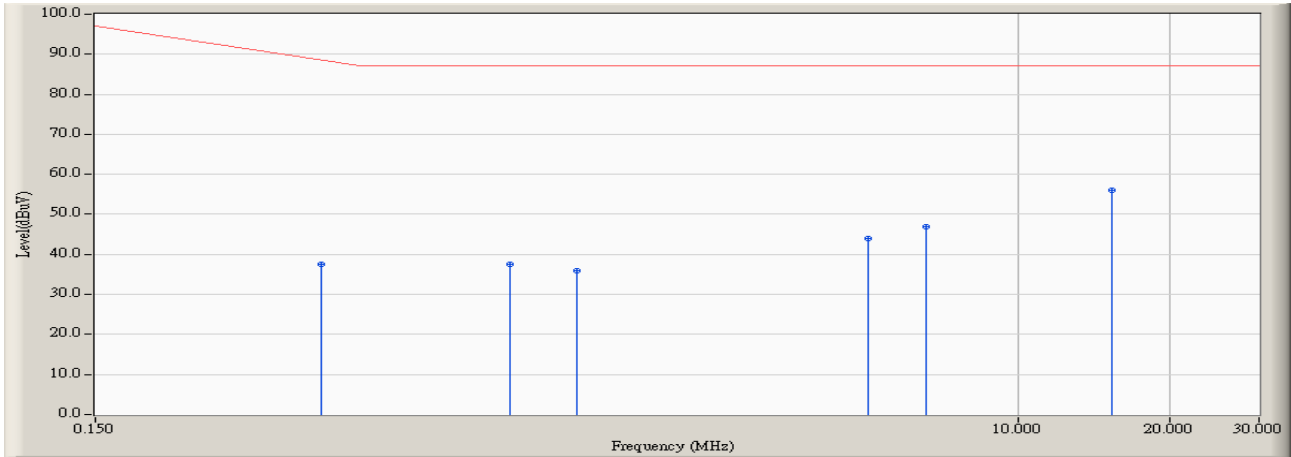
No deviation.

### 3.6. Test Result

Site : SR1	Time : 2015/09/03 - 13:09
Limit : ISN_Voltage_A_00M_QP	Margin : 13
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 10M (LAN 1)



Site : SR1	Time : 2015/09/03 - 13:11
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 10M (LAN 1)

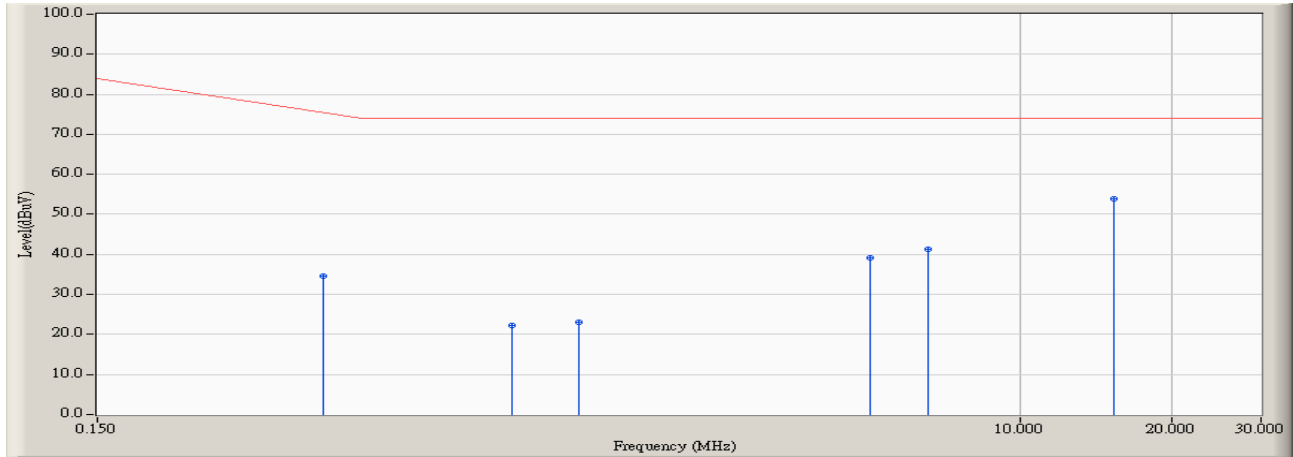


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	27.490	37.469	-51.817	89.286	QUASIPeAK
2		0.994	9.955	27.470	37.425	-49.575	87.000	QUASIPeAK
3		1.341	9.981	25.960	35.941	-51.059	87.000	QUASIPeAK
4		5.052	10.155	33.720	43.875	-43.125	87.000	QUASIPeAK
5		6.576	10.219	36.800	47.019	-39.981	87.000	QUASIPeAK
6	*	15.400	10.520	45.640	56.160	-30.840	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:11
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 10M (LAN 1)

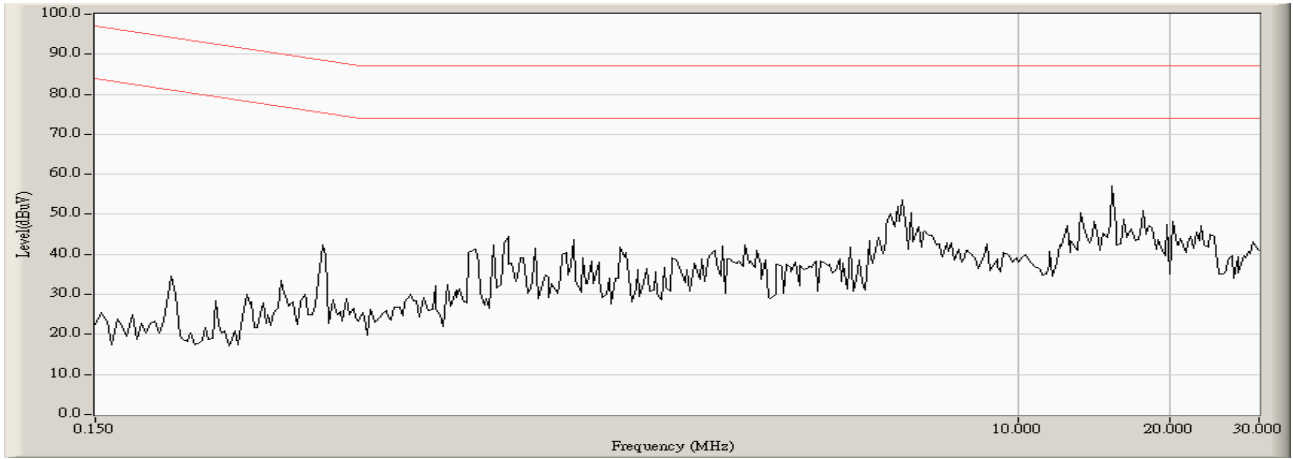


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	24.620	34.599	-41.687	76.286	AVERAGE
2		0.994	9.955	12.180	22.135	-51.865	74.000	AVERAGE
3		1.341	9.981	13.150	23.131	-50.869	74.000	AVERAGE
4		5.052	10.155	28.860	39.015	-34.985	74.000	AVERAGE
5		6.576	10.219	31.170	41.389	-32.611	74.000	AVERAGE
6	*	15.400	10.520	43.290	53.810	-20.190	74.000	AVERAGE

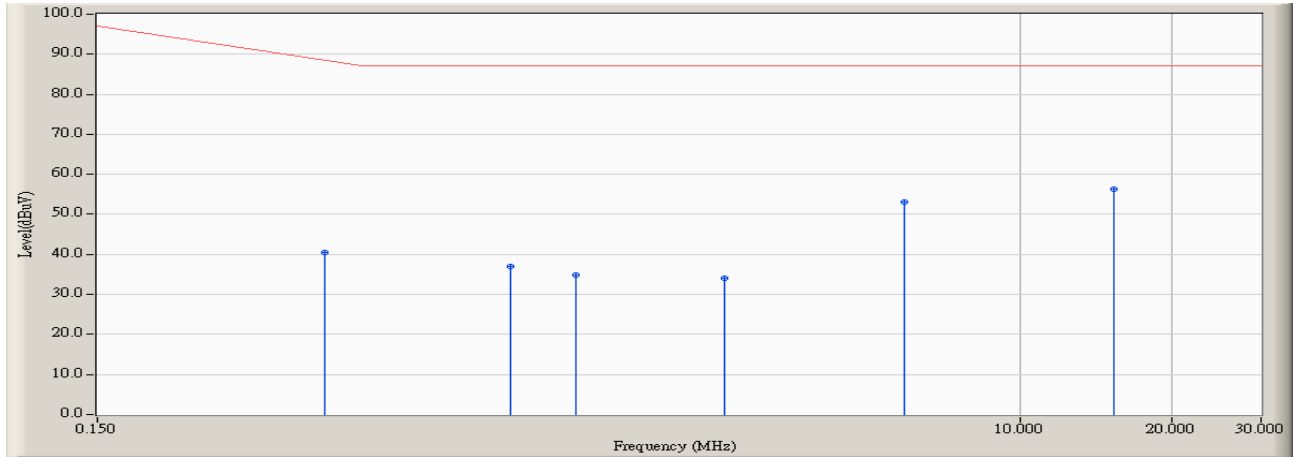
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 13:12</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1: ISN 100M (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 13:12
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 100M (LAN 1)



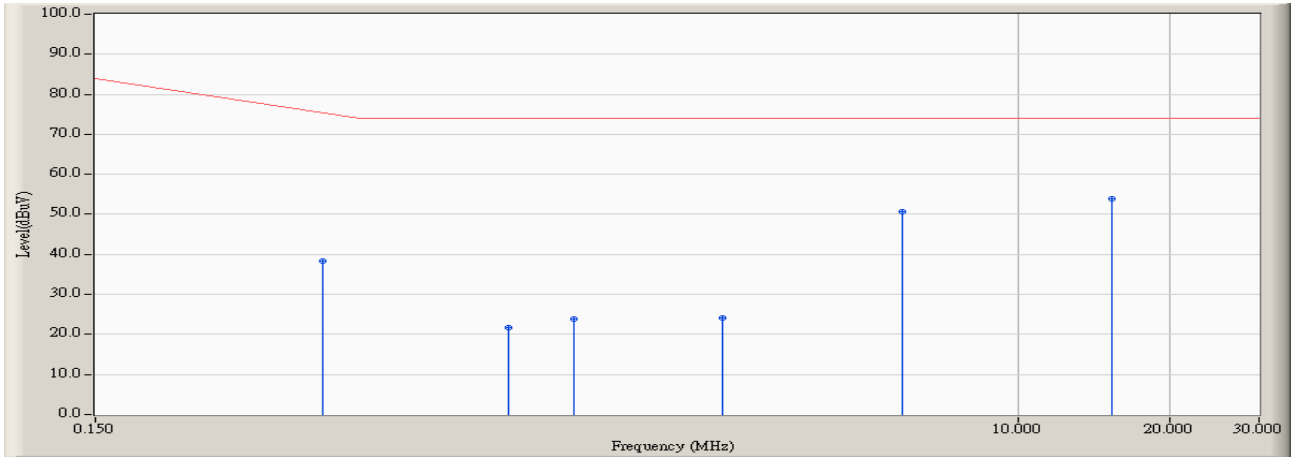
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	30.530	40.509	-48.691	89.200	QUASIPeAK
2		0.982	9.954	27.060	37.014	-49.986	87.000	QUASIPeAK
3		1.322	9.980	24.910	34.890	-52.110	87.000	QUASIPeAK
4		2.615	10.049	24.090	34.139	-52.861	87.000	QUASIPeAK
5		5.908	10.194	42.840	53.034	-33.966	87.000	QUASIPeAK
6	*	15.400	10.520	45.760	56.280	-30.720	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR1	Time : 2015/09/03 - 13:12
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 100M (LAN 1)

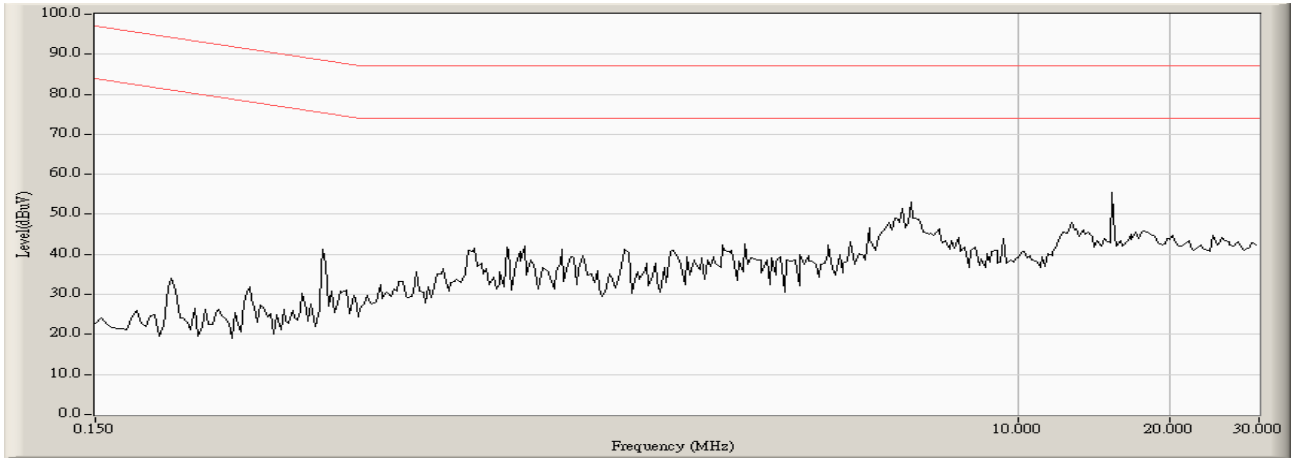


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	28.440	38.419	-37.781	76.200	AVERAGE
2		0.982	9.954	11.780	21.734	-52.266	74.000	AVERAGE
3		1.322	9.980	13.770	23.750	-50.250	74.000	AVERAGE
4		2.615	10.049	14.030	24.079	-49.921	74.000	AVERAGE
5		5.908	10.194	40.510	50.704	-23.296	74.000	AVERAGE
6	*	15.400	10.520	43.310	53.830	-20.170	74.000	AVERAGE

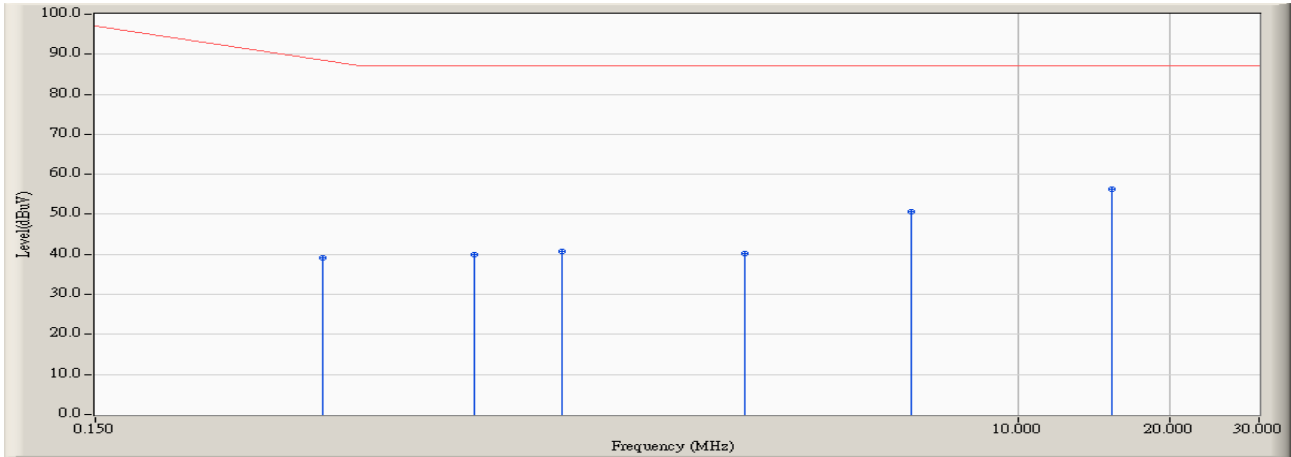
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 13:13</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1: ISN 1G (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 13:14
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 1G (LAN 1)

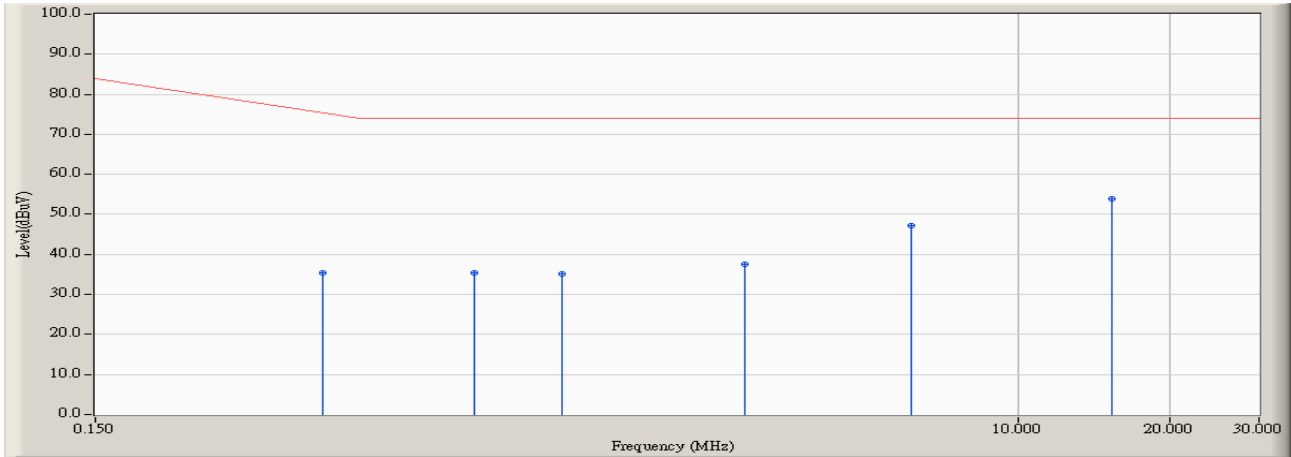


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	29.280	39.259	-49.941	89.200	QUASIPeAK
2		0.841	9.966	29.930	39.896	-47.104	87.000	QUASIPeAK
3		1.255	9.977	30.870	40.847	-46.153	87.000	QUASIPeAK
4		2.888	10.065	30.040	40.105	-46.895	87.000	QUASIPeAK
5		6.142	10.199	40.460	50.659	-36.341	87.000	QUASIPeAK
6	*	15.400	10.520	45.720	56.240	-30.760	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:14
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 1G (LAN 1)

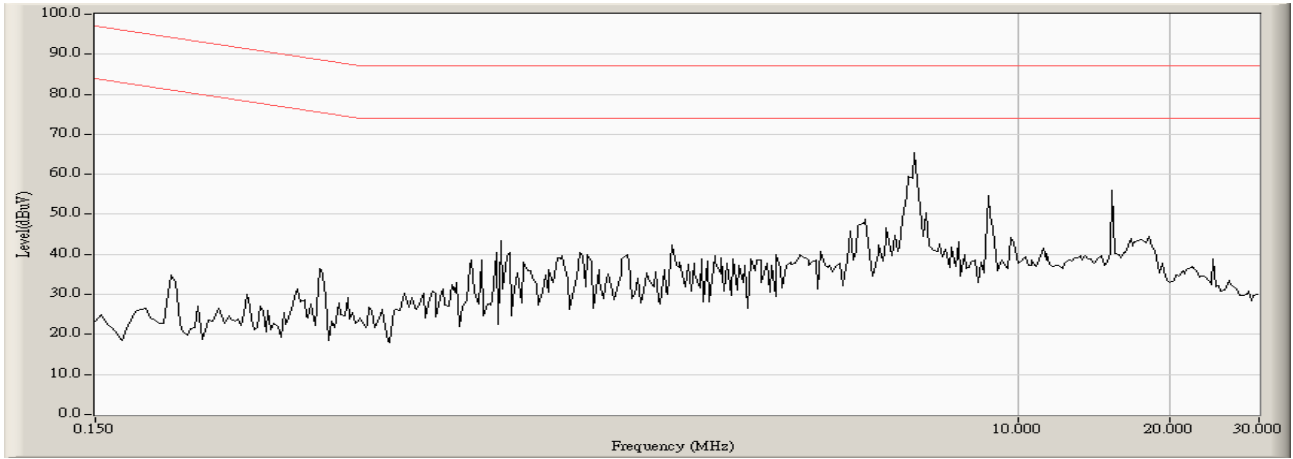


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	25.470	35.449	-40.751	76.200	AVERAGE
2		0.841	9.966	25.450	35.416	-38.584	74.000	AVERAGE
3		1.255	9.977	25.110	35.087	-38.913	74.000	AVERAGE
4		2.888	10.065	27.490	37.555	-36.445	74.000	AVERAGE
5		6.142	10.199	37.110	47.309	-26.691	74.000	AVERAGE
6	*	15.400	10.520	43.310	53.830	-20.170	74.000	AVERAGE

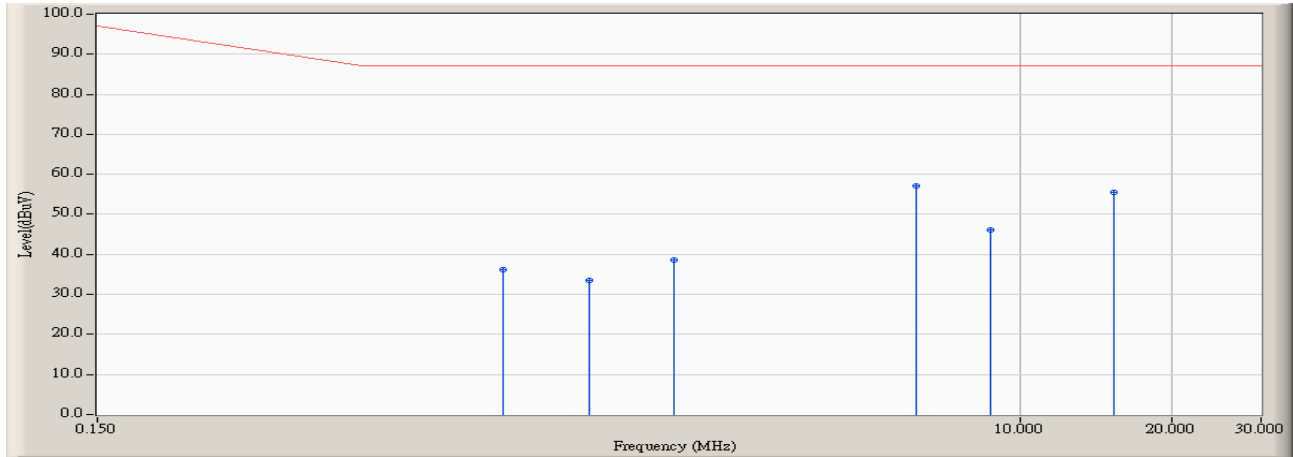
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 13:16</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1: ISN 10M (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 13:17
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 10M (LAN 2)

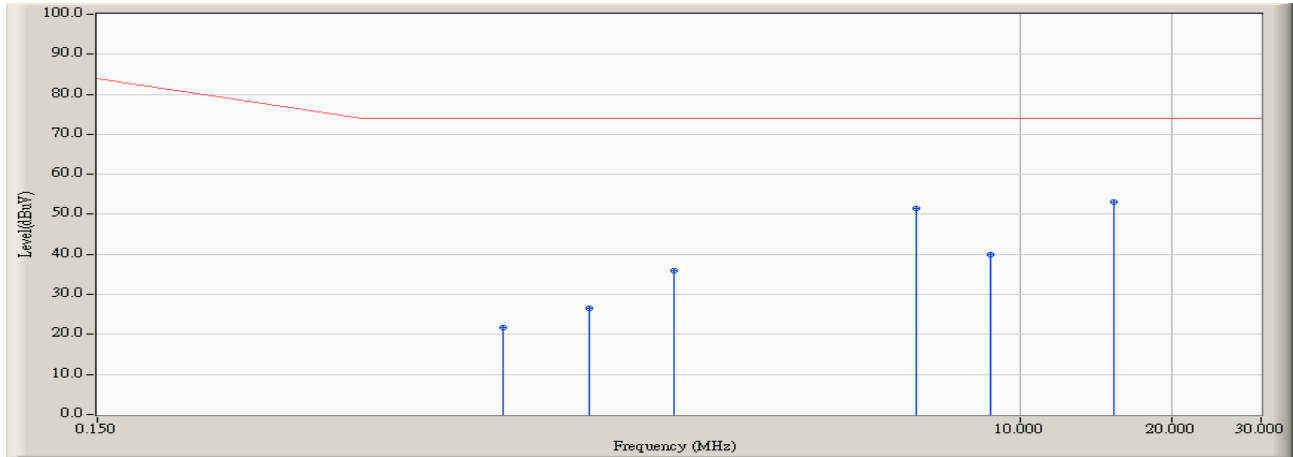


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.951	9.955	26.290	36.245	-50.755	87.000	QUASIPeAK
2		1.412	9.984	23.600	33.584	-53.416	87.000	QUASIPeAK
3		2.072	10.024	28.600	38.624	-48.376	87.000	QUASIPeAK
4	*	6.252	10.206	46.860	57.066	-29.934	87.000	QUASIPeAK
5		8.748	10.289	35.740	46.029	-40.971	87.000	QUASIPeAK
6		15.400	10.520	44.930	55.450	-31.550	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:17
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 10M (LAN 2)

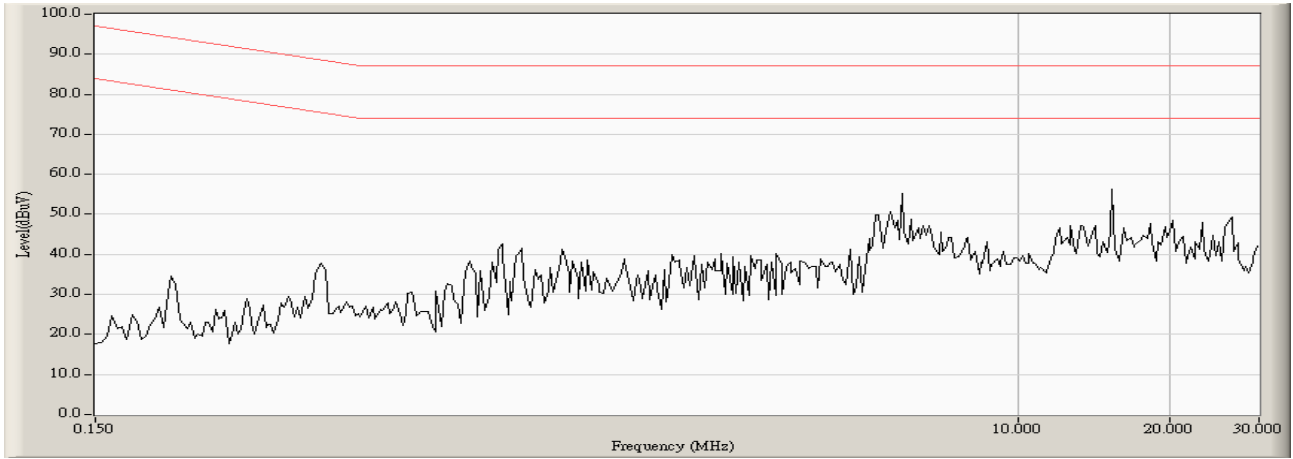


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.951	9.955	11.700	21.655	-52.345	74.000	AVERAGE
2		1.412	9.984	16.560	26.544	-47.456	74.000	AVERAGE
3		2.072	10.024	26.010	36.034	-37.966	74.000	AVERAGE
4		6.252	10.206	41.340	51.546	-22.454	74.000	AVERAGE
5		8.748	10.289	29.690	39.979	-34.021	74.000	AVERAGE
6	*	15.400	10.520	42.620	53.140	-20.860	74.000	AVERAGE

**Note:**

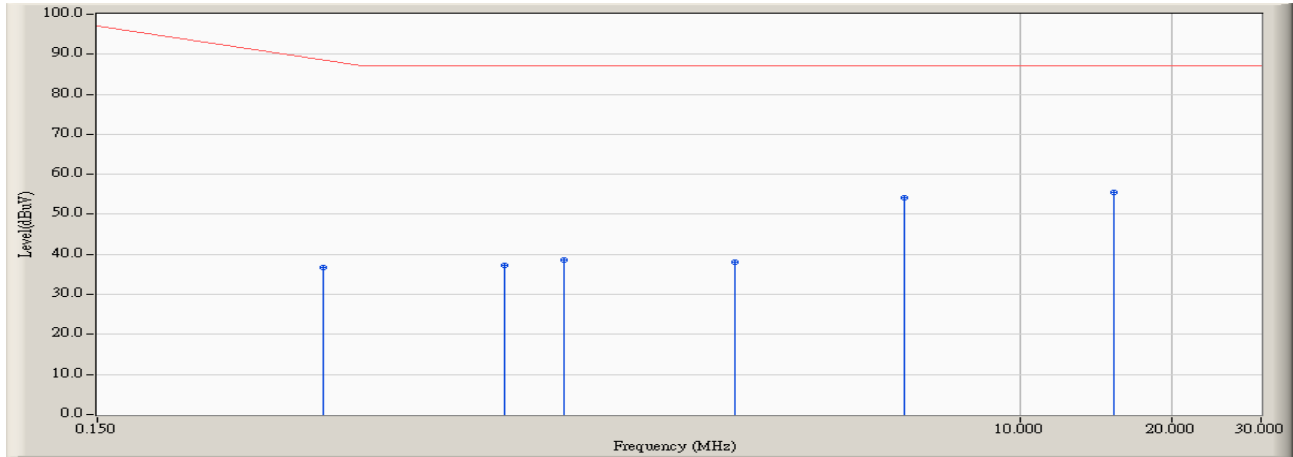
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 13:18</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1: ISN 100M (LAN 2)</b>





Site : SR1	Time : 2015/09/03 - 13:19
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 100M (LAN 2)

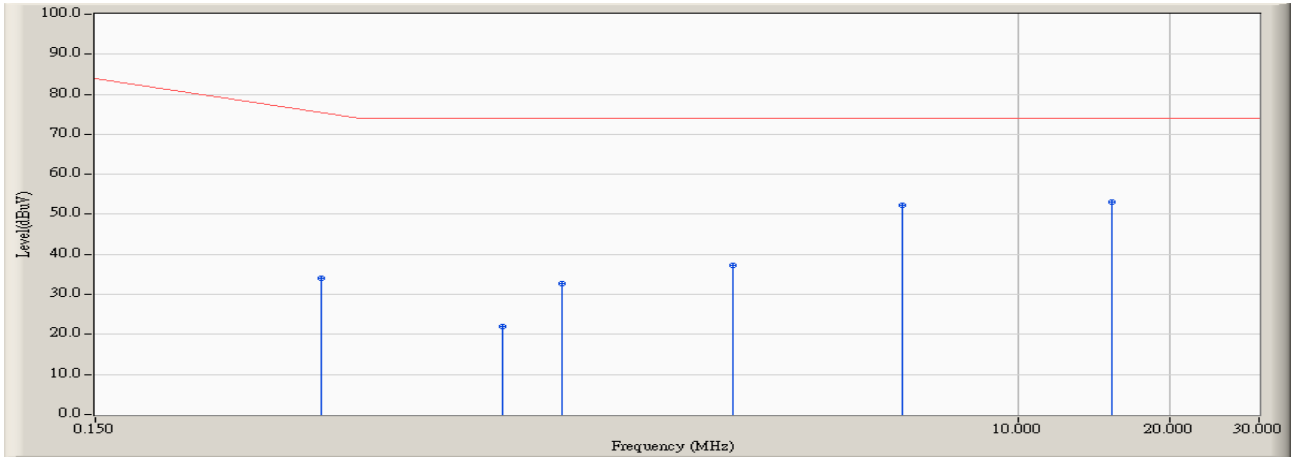


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	26.880	36.859	-52.427	89.286	QUASIPeAK
2		0.955	9.953	27.340	37.293	-49.707	87.000	QUASIPeAK
3		1.259	9.977	28.750	38.727	-48.273	87.000	QUASIPeAK
4		2.740	10.052	28.080	38.132	-48.868	87.000	QUASIPeAK
5		5.908	10.194	43.950	54.144	-32.856	87.000	QUASIPeAK
6	*	15.400	10.520	44.950	55.470	-31.530	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:19
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 100M (LAN 2)

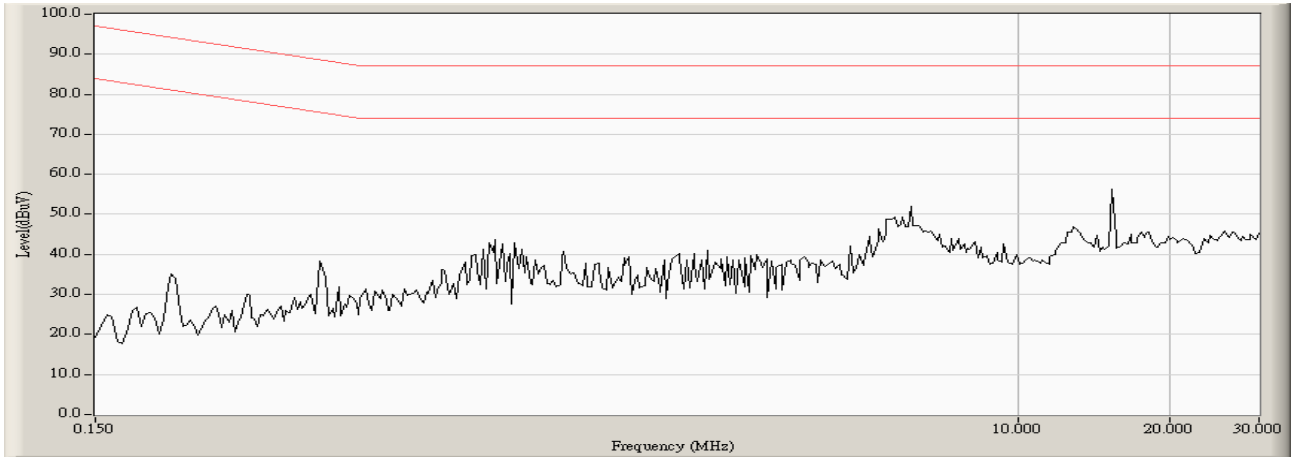


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	24.150	34.129	-42.157	76.286	AVERAGE
2		0.955	9.953	12.100	22.053	-51.947	74.000	AVERAGE
3		1.259	9.977	22.750	32.727	-41.273	74.000	AVERAGE
4		2.740	10.052	27.180	37.232	-36.768	74.000	AVERAGE
5		5.908	10.194	41.980	52.174	-21.826	74.000	AVERAGE
6	*	15.400	10.520	42.620	53.140	-20.860	74.000	AVERAGE

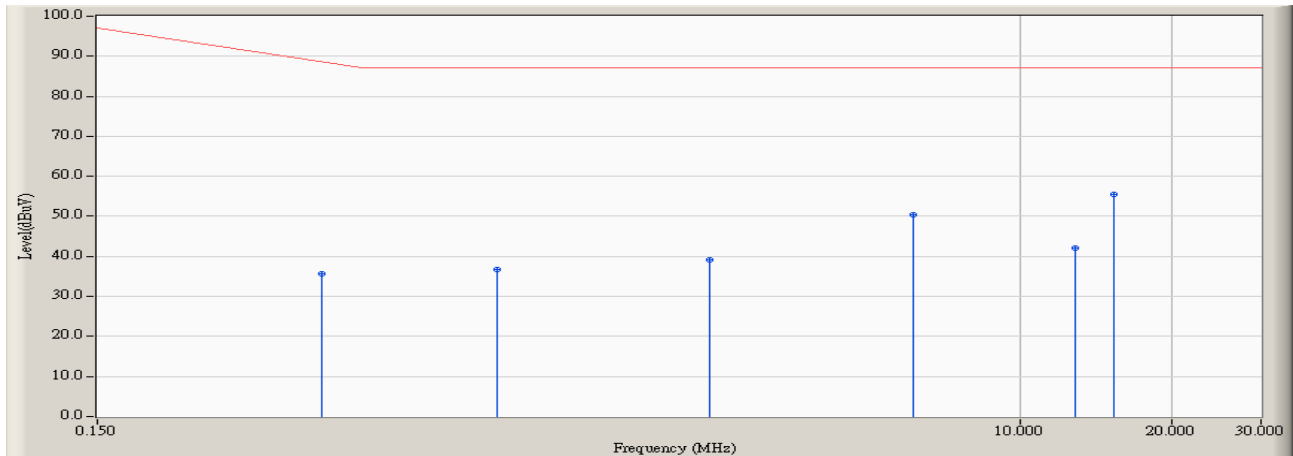
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 13:19</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1: ISN 1G (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 13:20
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 1G (LAN 2)

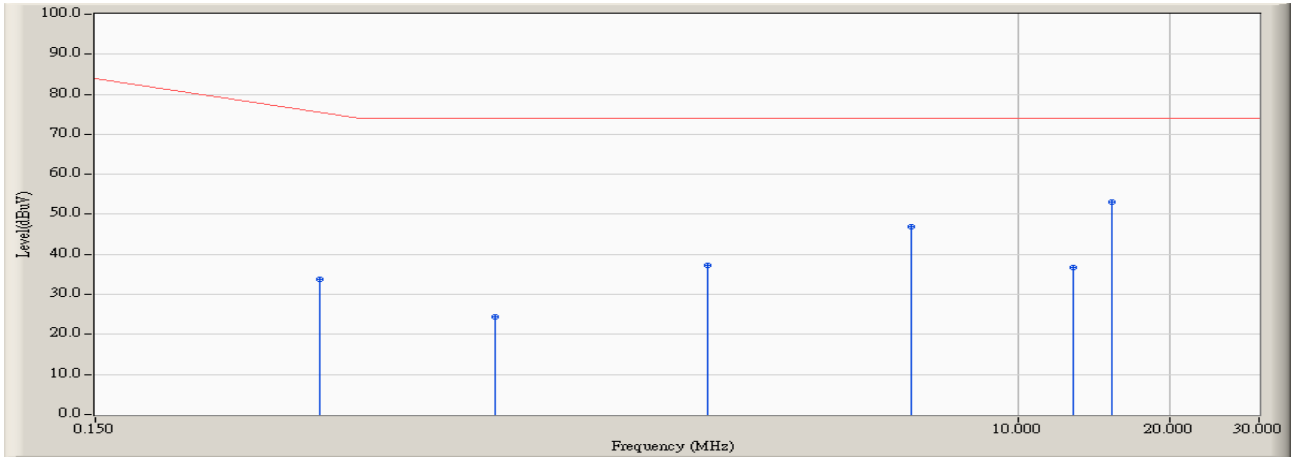


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.416	9.979	25.720	35.699	-53.701	89.400	QUASIPeAK
2		0.927	9.962	26.800	36.761	-50.239	87.000	QUASIPeAK
3		2.443	10.045	29.170	39.215	-47.785	87.000	QUASIPeAK
4		6.142	10.199	40.130	50.329	-36.671	87.000	QUASIPeAK
5		12.884	10.444	31.530	41.974	-45.026	87.000	QUASIPeAK
6	*	15.400	10.520	45.030	55.550	-31.450	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:20
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 24V	Note : Mode 1: ISN 1G (LAN 2)

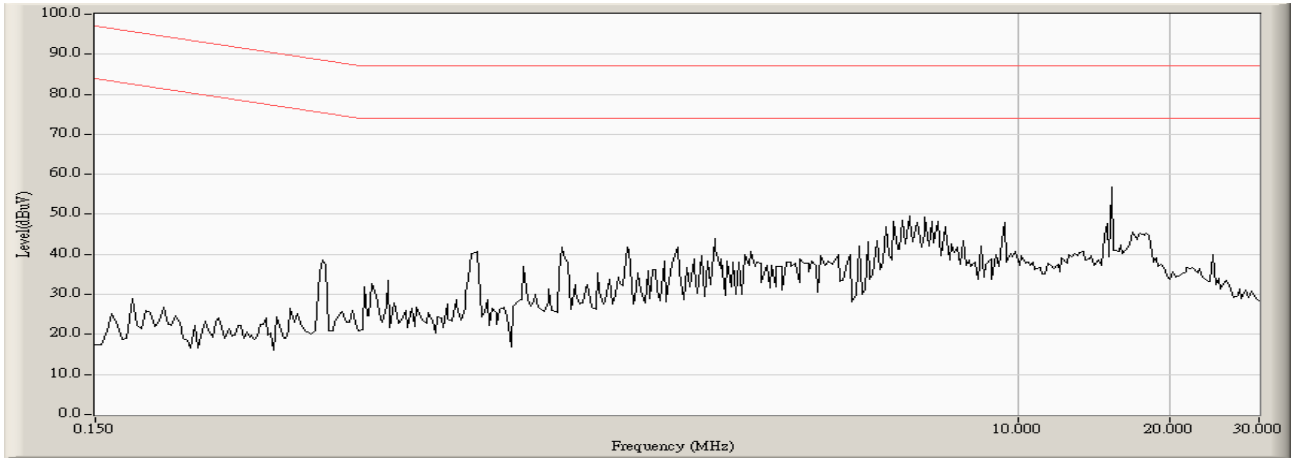


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.416	9.979	23.810	33.789	-42.611	76.400	AVERAGE
2		0.927	9.962	14.540	24.501	-49.499	74.000	AVERAGE
3		2.443	10.045	27.100	37.145	-36.855	74.000	AVERAGE
4		6.142	10.199	36.770	46.969	-27.031	74.000	AVERAGE
5		12.884	10.444	26.280	36.724	-37.276	74.000	AVERAGE
6	*	15.400	10.520	42.640	53.160	-20.840	74.000	AVERAGE

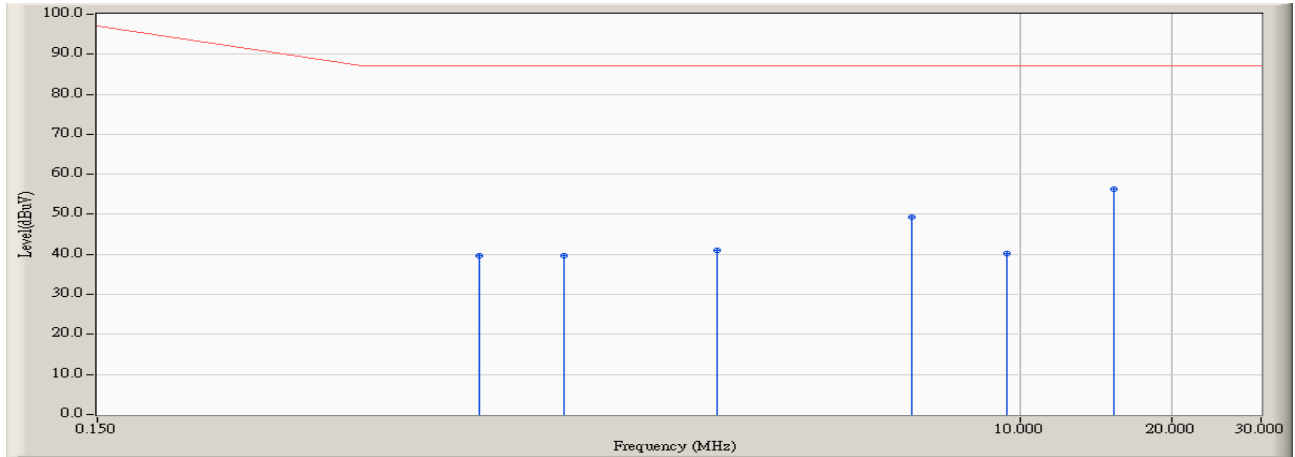
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:52</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 10M (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 12:54
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 10M (LAN 1)

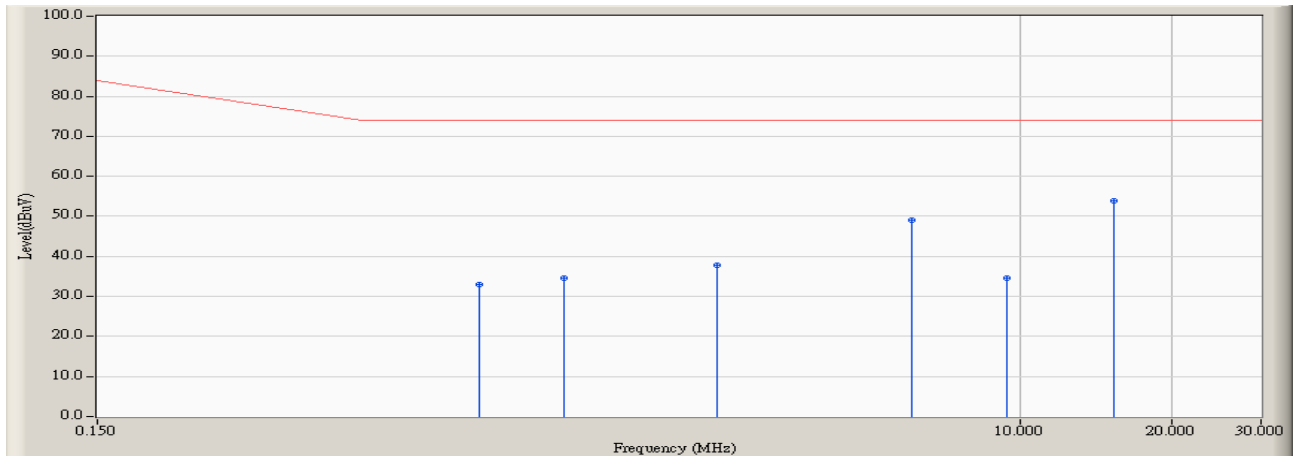


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.853	9.962	29.820	39.783	-47.217	87.000	QUASIPeAK
2		1.259	9.977	29.580	39.557	-47.443	87.000	QUASIPeAK
3		2.517	10.047	30.890	40.937	-46.063	87.000	QUASIPeAK
4		6.119	10.199	39.240	49.439	-37.561	87.000	QUASIPeAK
5		9.404	10.321	29.870	40.191	-46.809	87.000	QUASIPeAK
6	*	15.400	10.520	45.780	56.300	-30.700	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 12:54
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 10M (LAN 1)



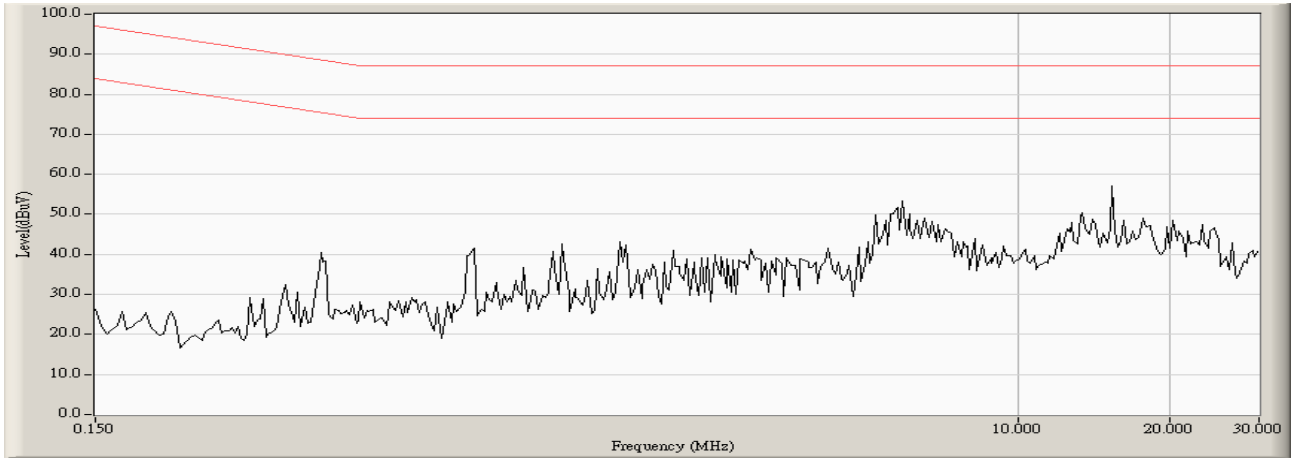
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.853	9.962	22.990	32.953	-41.047	74.000	AVERAGE
2		1.259	9.977	24.500	34.477	-39.523	74.000	AVERAGE
3		2.517	10.047	27.830	37.877	-36.123	74.000	AVERAGE
4		6.119	10.199	38.850	49.049	-24.951	74.000	AVERAGE
5		9.404	10.321	24.230	34.551	-39.449	74.000	AVERAGE
6	*	15.400	10.520	43.270	53.790	-20.210	74.000	AVERAGE

**Note:**

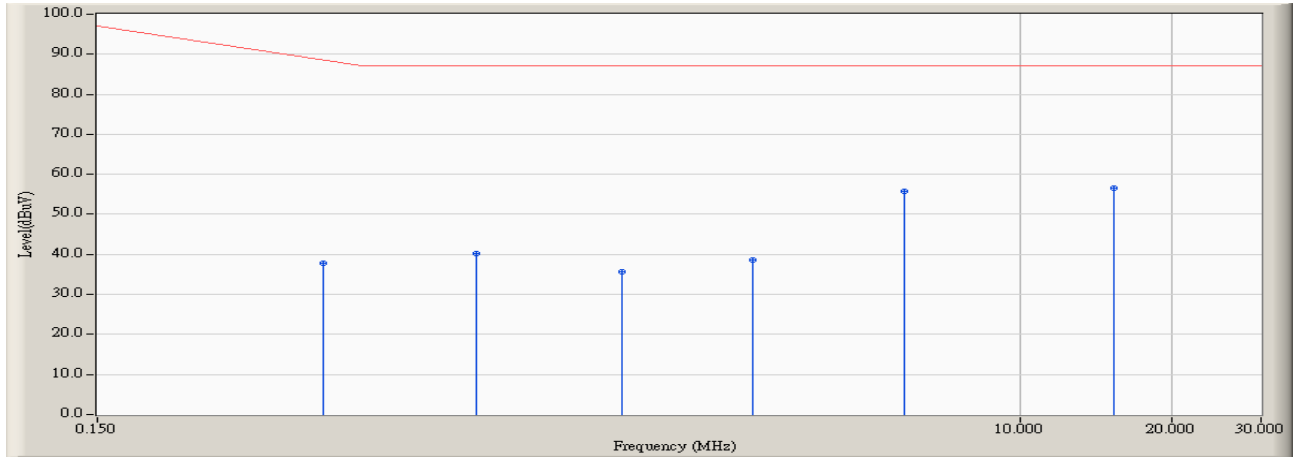
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:56</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 100M (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 12:57
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 100M (LAN 1)

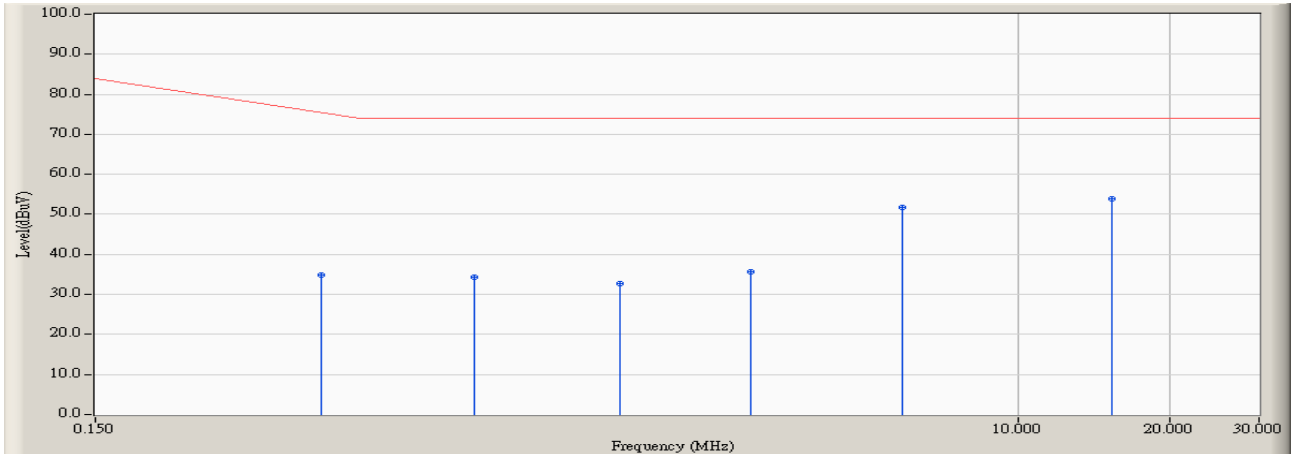


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	27.870	37.849	-51.437	89.286	QUASIPeAK
2		0.841	9.966	30.190	40.156	-46.844	87.000	QUASIPeAK
3		1.630	9.994	25.640	35.634	-51.366	87.000	QUASIPeAK
4		2.959	10.067	28.430	38.497	-48.503	87.000	QUASIPeAK
5		5.908	10.194	45.690	55.884	-31.116	87.000	QUASIPeAK
6	*	15.400	10.520	45.950	56.470	-30.530	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 12:57
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 100M (LAN 1)

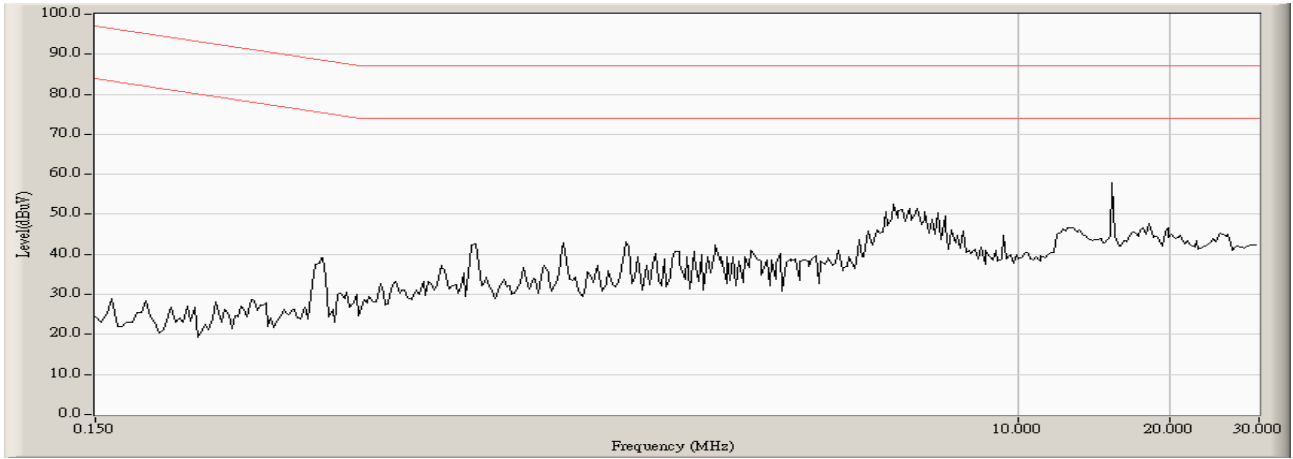


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.420	9.979	24.900	34.879	-41.407	76.286	AVERAGE
2		0.841	9.966	24.250	34.216	-39.784	74.000	AVERAGE
3		1.630	9.994	22.690	32.684	-41.316	74.000	AVERAGE
4		2.959	10.067	25.520	35.587	-38.413	74.000	AVERAGE
5		5.908	10.194	41.610	51.804	-22.196	74.000	AVERAGE
6	*	15.400	10.520	43.290	53.810	-20.190	74.000	AVERAGE

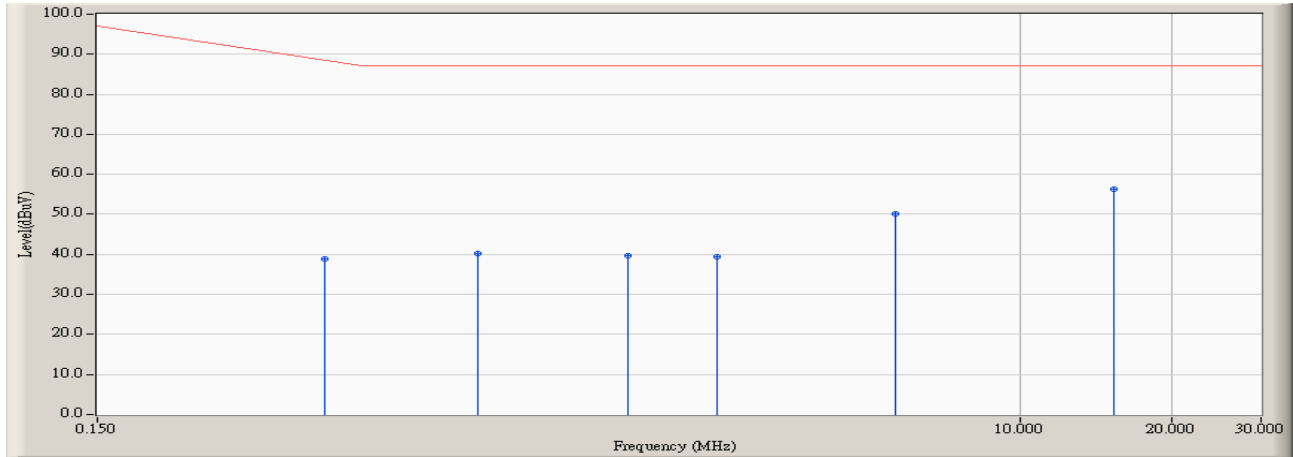
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:58</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 1G (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 13:00
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 1G (LAN 1)

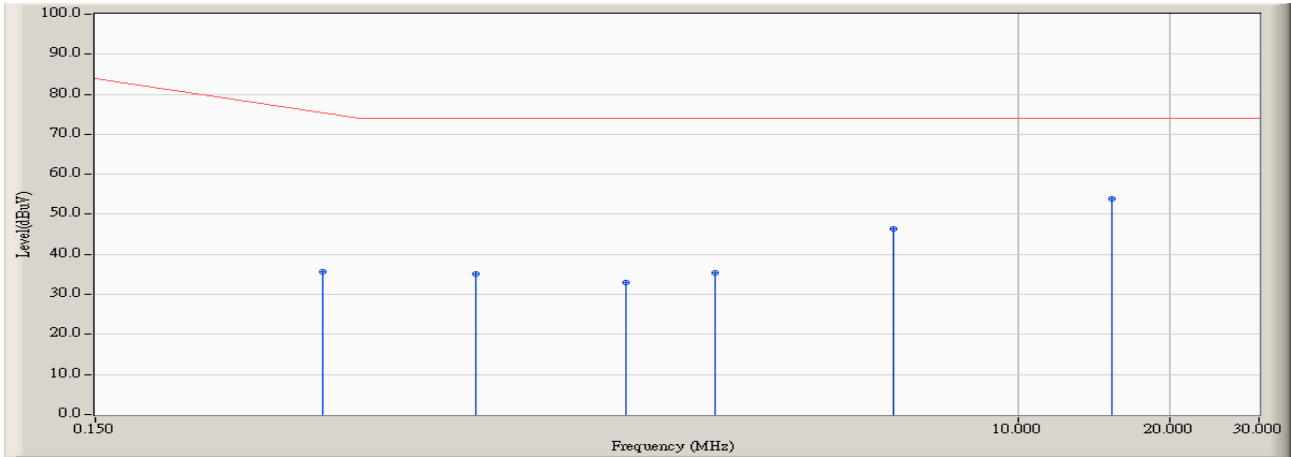


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	28.910	38.889	-50.311	89.200	QUASIPeAK
2		0.849	9.964	30.330	40.294	-46.706	87.000	QUASIPeAK
3		1.681	9.996	29.750	39.746	-47.254	87.000	QUASIPeAK
4		2.521	10.047	29.260	39.307	-47.693	87.000	QUASIPeAK
5		5.697	10.179	39.930	50.109	-36.891	87.000	QUASIPeAK
6	*	15.400	10.520	45.900	56.420	-30.580	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 13:00
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 1G (LAN 1)

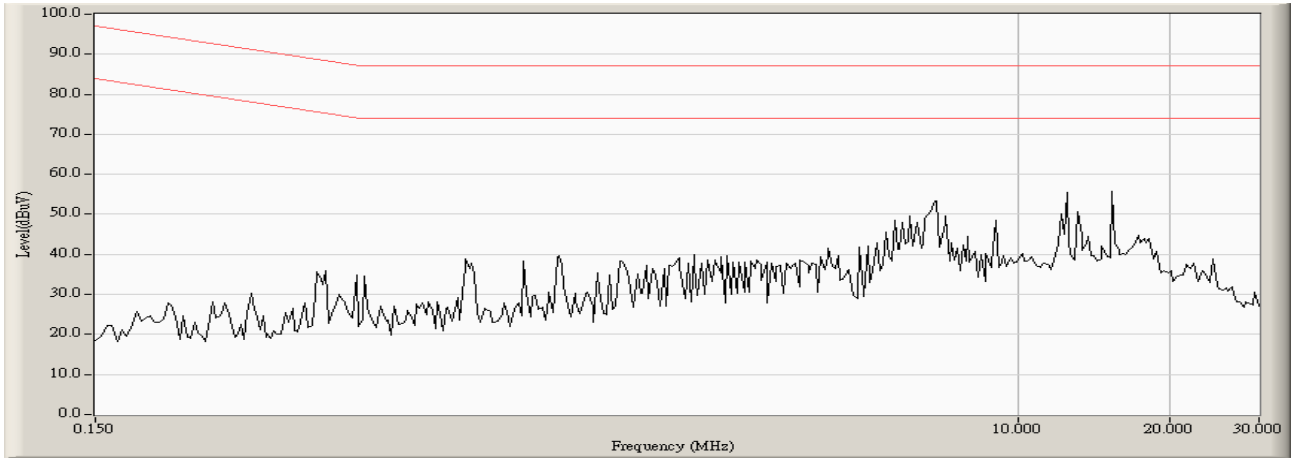


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.423	9.979	25.630	35.609	-40.591	76.200	AVERAGE
2		0.849	9.964	25.070	35.034	-38.966	74.000	AVERAGE
3		1.681	9.996	22.900	32.896	-41.104	74.000	AVERAGE
4		2.521	10.047	25.390	35.437	-38.563	74.000	AVERAGE
5		5.697	10.179	36.260	46.439	-27.561	74.000	AVERAGE
6	*	15.400	10.520	43.290	53.810	-20.190	74.000	AVERAGE

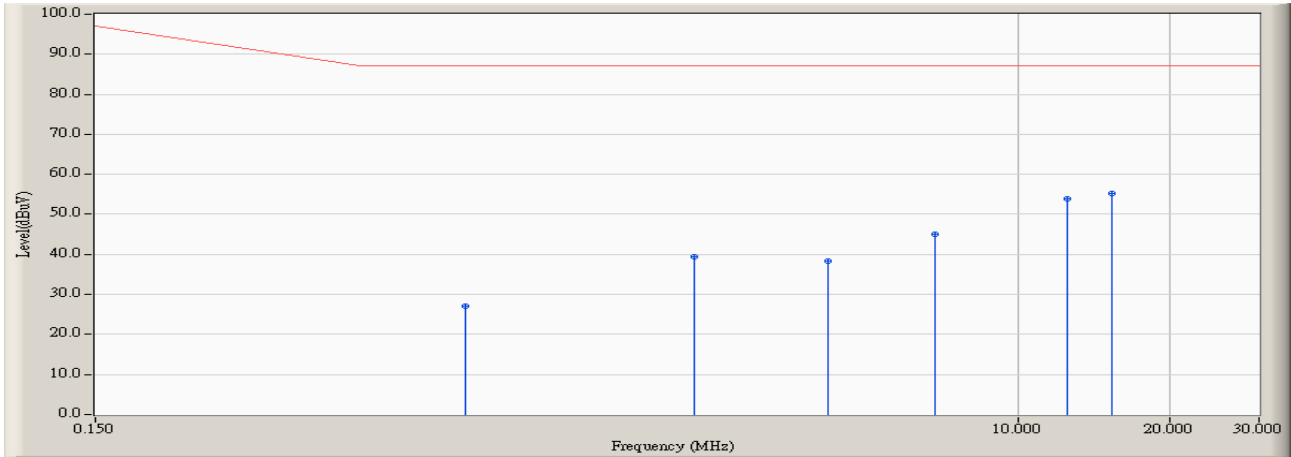
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:42</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 10M (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 12:43
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 10M (LAN 2)



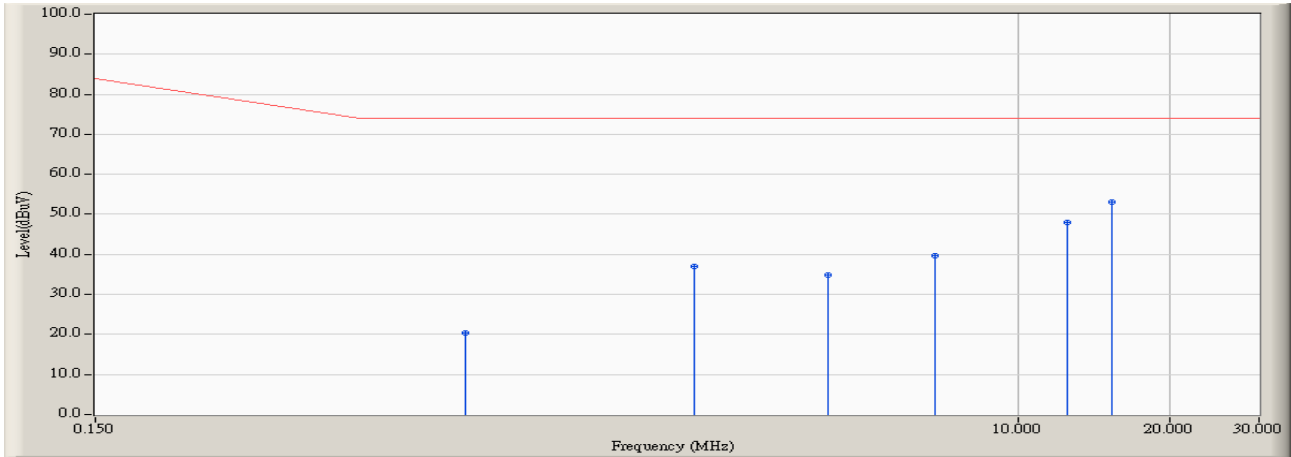
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.810	9.966	17.130	27.096	-59.904	87.000	QUASIPeAK
2		2.295	10.042	29.300	39.342	-47.658	87.000	QUASIPeAK
3		4.224	10.116	28.270	38.386	-48.614	87.000	QUASIPeAK
4		6.849	10.233	34.850	45.083	-41.917	87.000	QUASIPeAK
5		12.502	10.427	43.440	53.867	-33.133	87.000	QUASIPeAK
6	*	15.400	10.520	44.830	55.350	-31.650	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR1	Time : 2015/09/03 - 12:43
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 10M (LAN 2)

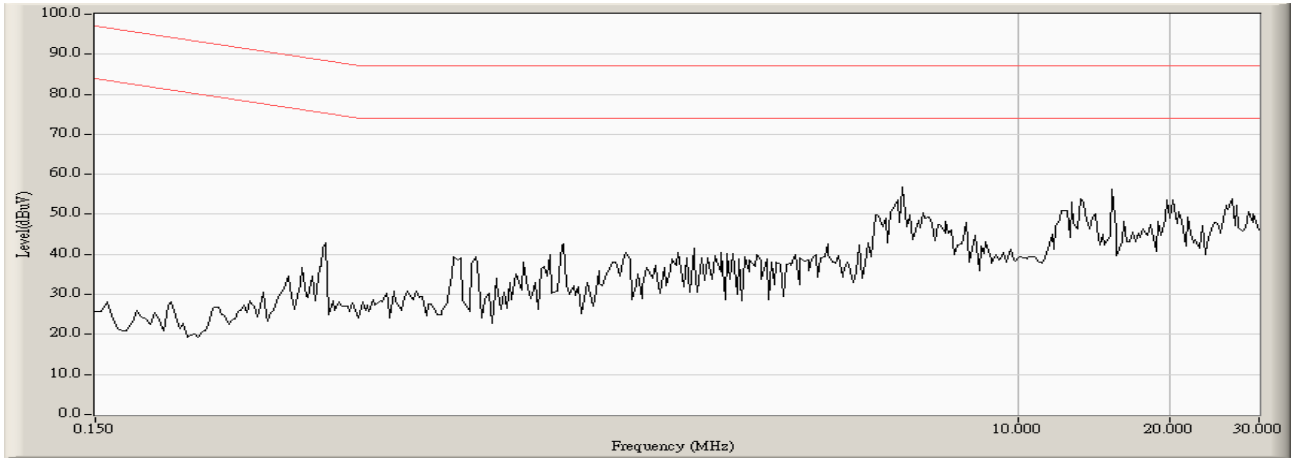


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.810	9.966	10.300	20.266	-53.734	74.000	AVERAGE
2		2.295	10.042	27.080	37.122	-36.878	74.000	AVERAGE
3		4.224	10.116	24.730	34.846	-39.154	74.000	AVERAGE
4		6.849	10.233	29.410	39.643	-34.357	74.000	AVERAGE
5		12.502	10.427	37.580	48.007	-25.993	74.000	AVERAGE
6	*	15.400	10.520	42.560	53.080	-20.920	74.000	AVERAGE

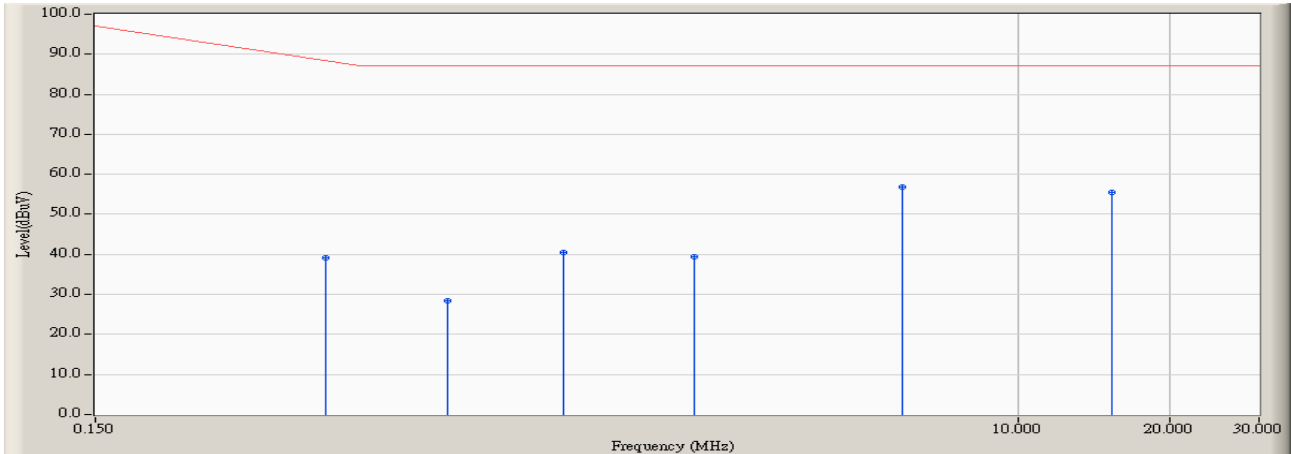
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:44</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 100M (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 12:46
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 100M (LAN 2)

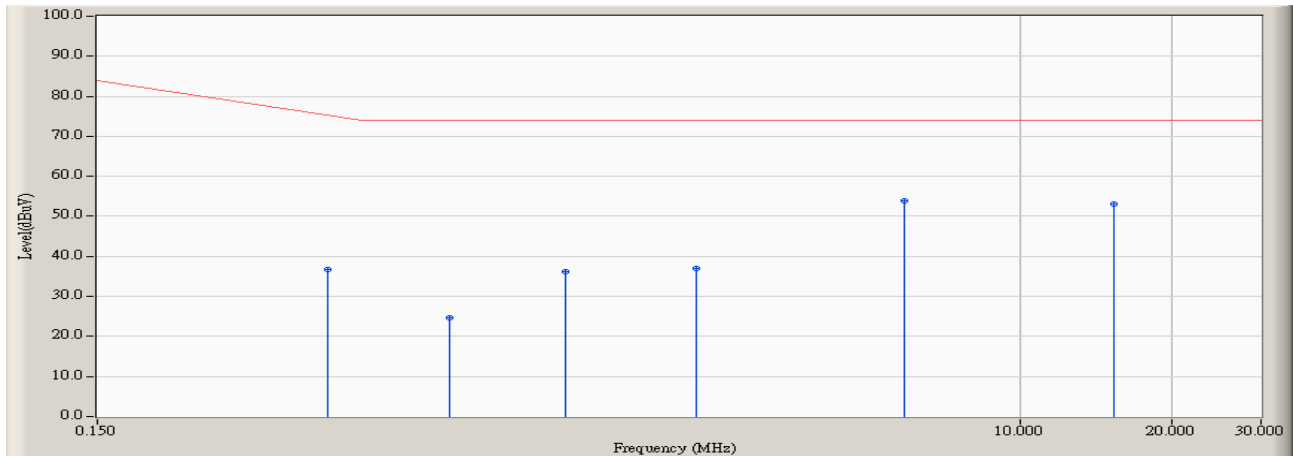


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.427	9.979	29.130	39.109	-49.977	89.086	QUASIPeAK
2	0.748	9.964	18.550	28.514	-58.486	87.000	QUASIPeAK
3	1.267	9.977	30.430	40.407	-46.593	87.000	QUASIPeAK
4	2.295	10.042	29.320	39.362	-47.638	87.000	QUASIPeAK
5	* 5.908	10.194	46.690	56.884	-30.116	87.000	QUASIPeAK
6	15.400	10.520	44.930	55.450	-31.550	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 12:46
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 100M (LAN 2)

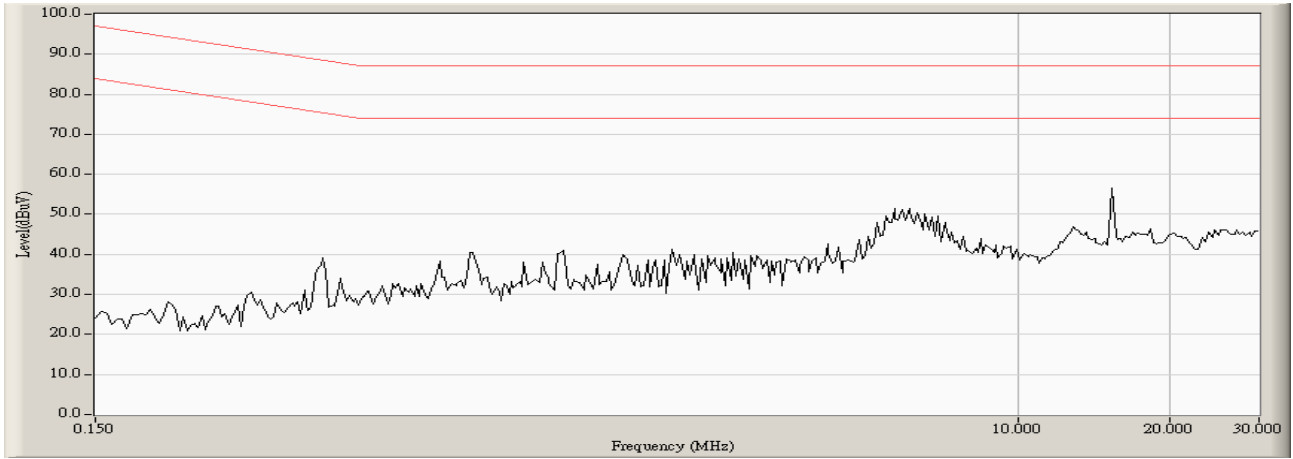


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.427	9.979	26.870	36.849	-39.237	76.086	AVERAGE
2	0.748	9.964	14.730	24.694	-49.306	74.000	AVERAGE
3	1.267	9.977	26.310	36.287	-37.713	74.000	AVERAGE
4	2.295	10.042	26.980	37.022	-36.978	74.000	AVERAGE
5	* 5.908	10.194	43.810	54.004	-19.996	74.000	AVERAGE
6	15.400	10.520	42.580	53.100	-20.900	74.000	AVERAGE

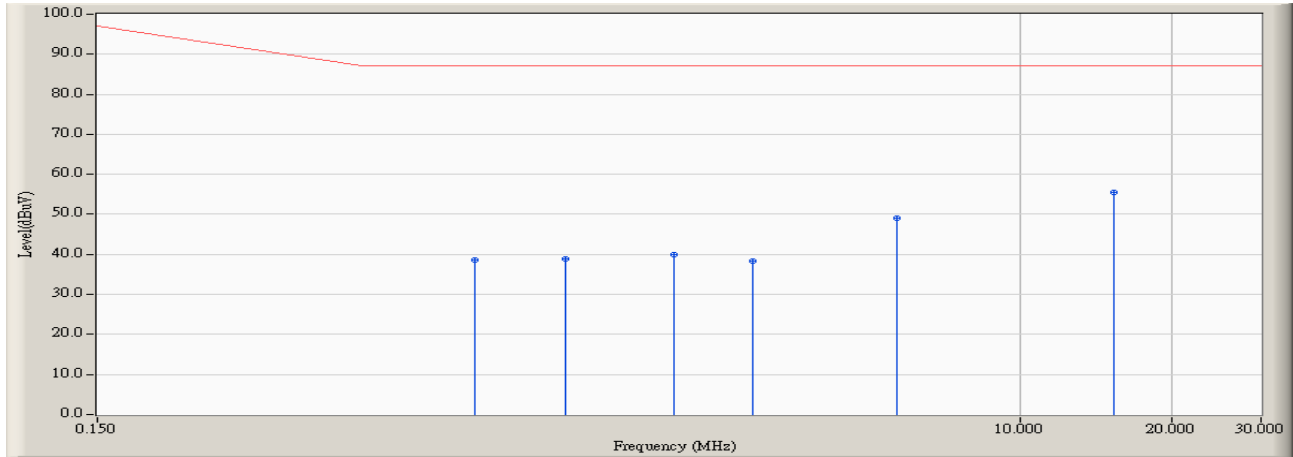
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 12:49</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2: ISN 1G (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 12:50
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 1G (LAN 2)

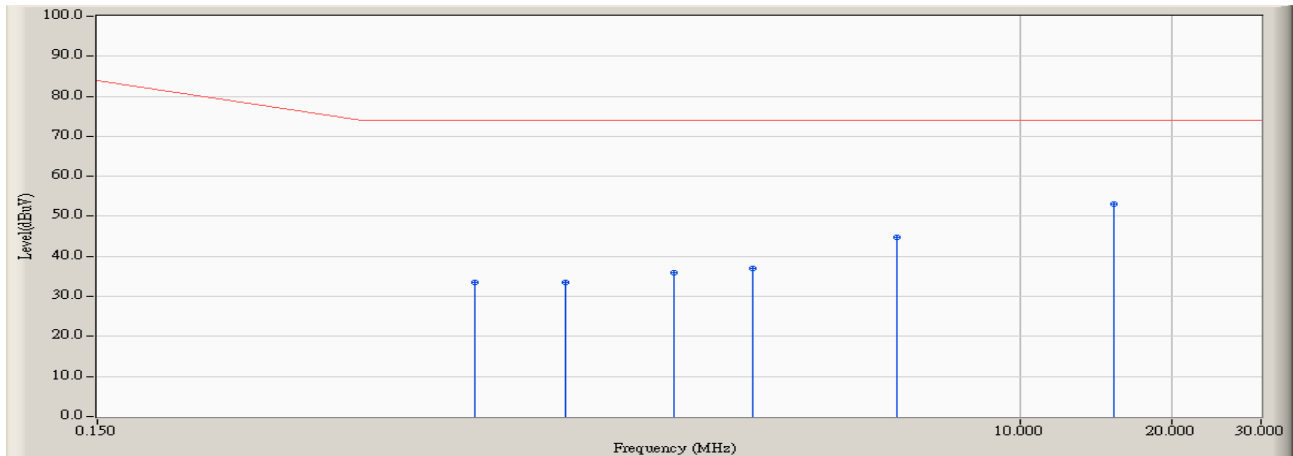


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.838	9.968	28.540	38.507	-48.493	87.000	QUASPEAK
2		1.263	9.977	28.830	38.807	-48.193	87.000	QUASPEAK
3		2.072	10.024	29.860	39.884	-47.116	87.000	QUASPEAK
4		2.962	10.067	28.310	38.377	-48.623	87.000	QUASPEAK
5		5.701	10.179	38.920	49.099	-37.901	87.000	QUASPEAK
6	*	15.400	10.520	45.070	55.590	-31.410	87.000	QUASPEAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 12:50
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 36V	Note : Mode 2: ISN 1G (LAN 2)

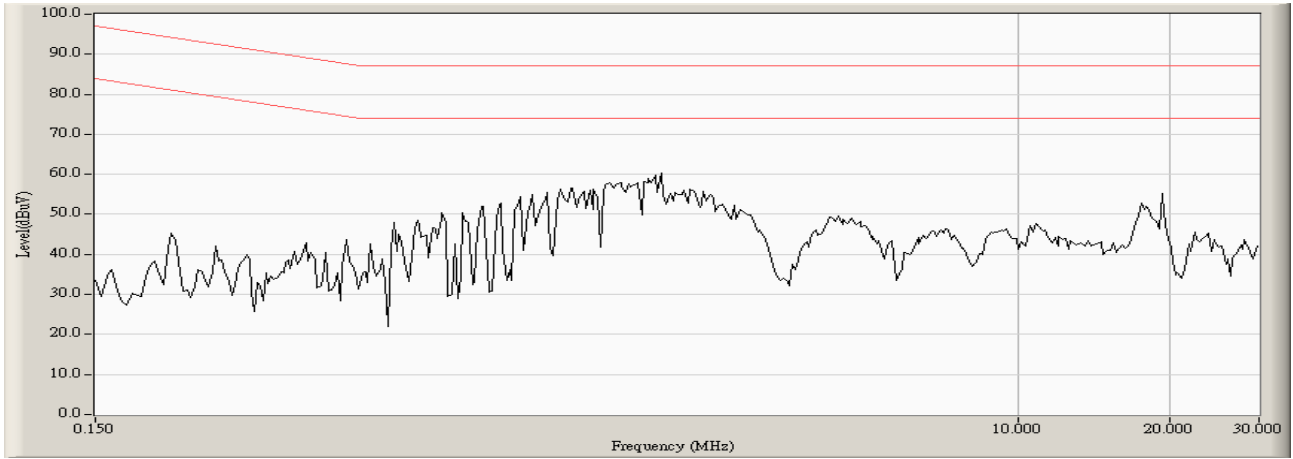


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.838	9.968	23.580	33.547	-40.453	74.000	AVERAGE
2		1.263	9.977	23.660	33.637	-40.363	74.000	AVERAGE
3		2.072	10.024	25.950	35.974	-38.026	74.000	AVERAGE
4		2.962	10.067	26.910	36.977	-37.023	74.000	AVERAGE
5		5.701	10.179	34.520	44.699	-29.301	74.000	AVERAGE
6	*	15.400	10.520	42.600	53.120	-20.880	74.000	AVERAGE

**Note:**

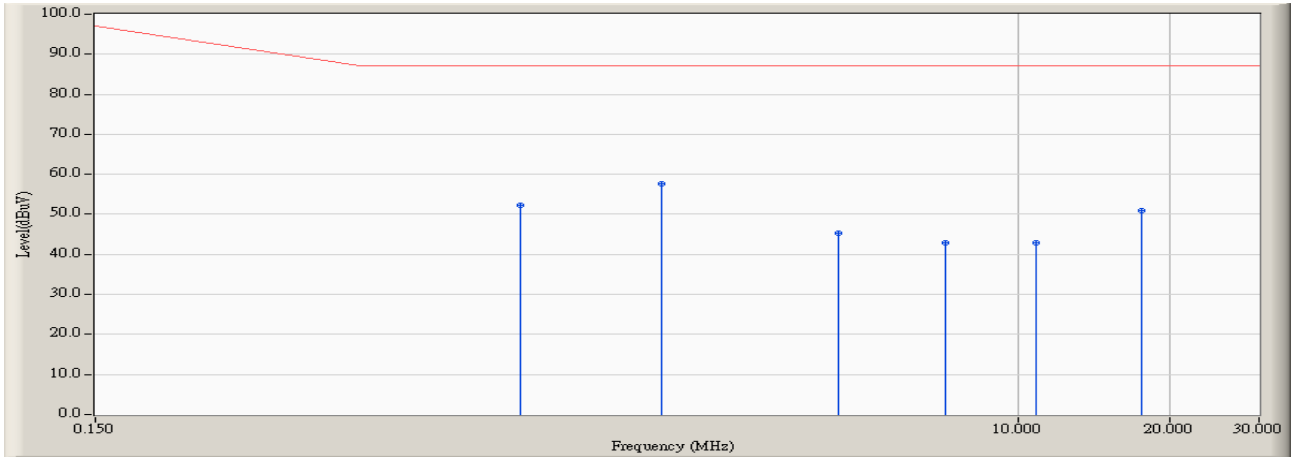
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:44</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 10M (LAN 1)</b>





Site : SR1	Time : 2015/09/03 - 11:45
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 10M (LAN 1)

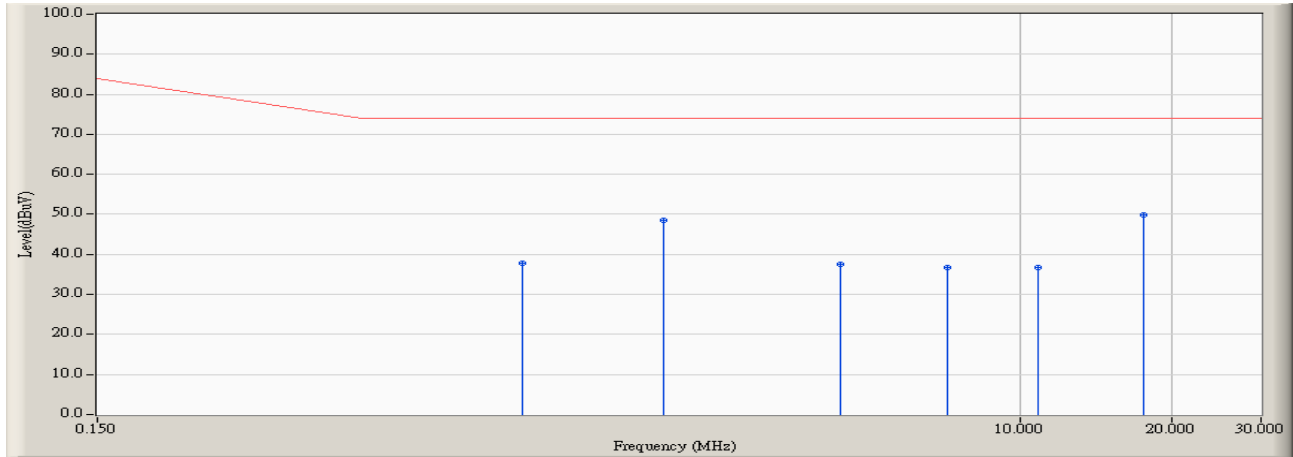


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		1.041	9.957	42.220	52.177	-34.823	87.000	QUASIPeAK
2	*	1.970	10.019	47.570	57.589	-29.411	87.000	QUASIPeAK
3		4.435	10.131	35.250	45.381	-41.619	87.000	QUASIPeAK
4		7.189	10.238	32.570	42.808	-44.192	87.000	QUASIPeAK
5		10.873	10.370	32.410	42.780	-44.220	87.000	QUASIPeAK
6		17.548	10.589	40.370	50.959	-36.041	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 11:45
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 10M (LAN 1)

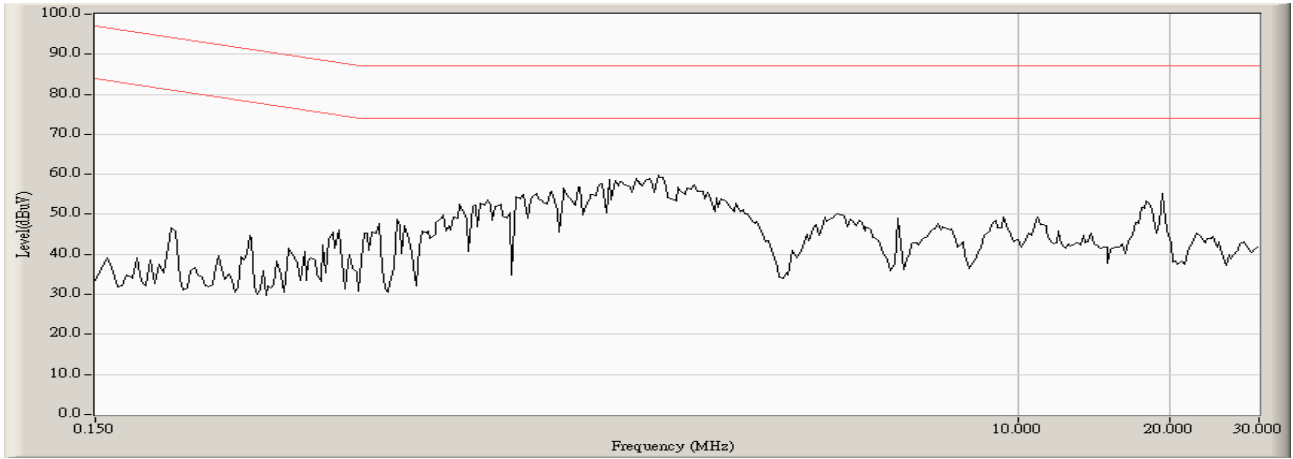


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		1.041	9.957	27.720	37.677	-36.323	74.000	AVERAGE
2		1.970	10.019	38.640	48.659	-25.341	74.000	AVERAGE
3		4.435	10.131	27.490	37.621	-36.379	74.000	AVERAGE
4		7.189	10.238	26.360	36.598	-37.402	74.000	AVERAGE
5		10.873	10.370	26.450	36.820	-37.180	74.000	AVERAGE
6	*	17.548	10.589	39.230	49.819	-24.181	74.000	AVERAGE

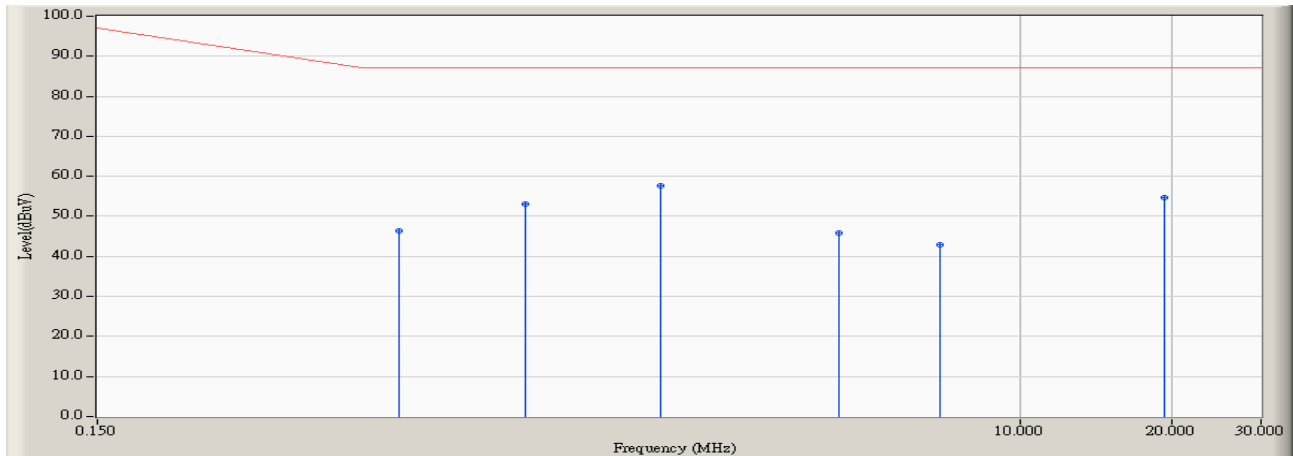
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:46</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 100M (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 11:47
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 100M (LAN 1)

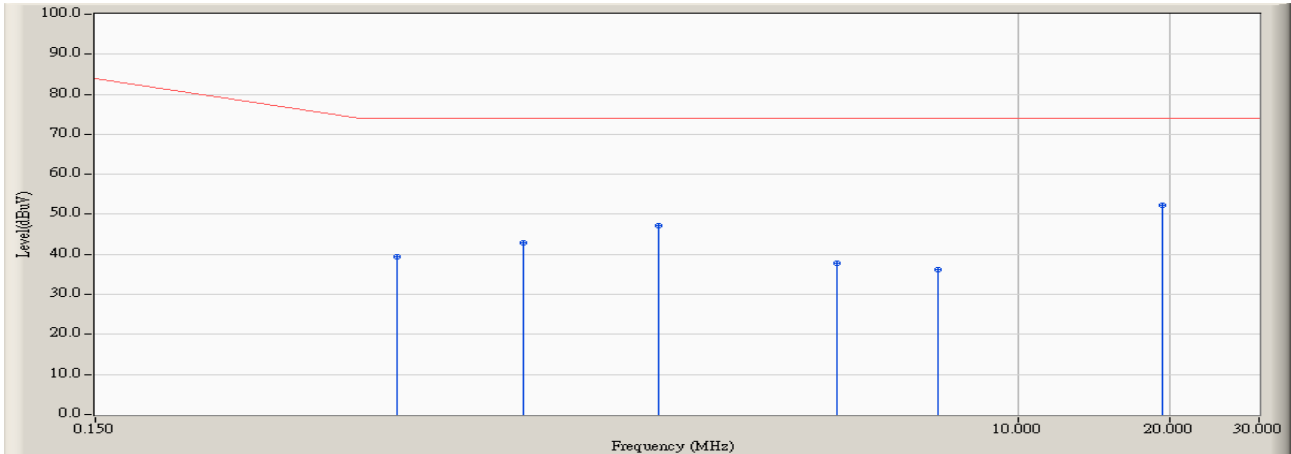


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.591	9.976	36.350	46.326	-40.674	87.000	QUASIPeAK
2	1.052	9.957	43.150	53.107	-33.893	87.000	QUASIPeAK
3	* 1.943	10.018	47.720	57.738	-29.262	87.000	QUASIPeAK
4	4.404	10.130	35.590	45.720	-41.280	87.000	QUASIPeAK
5	6.947	10.235	32.690	42.925	-44.075	87.000	QUASIPeAK
6	19.318	10.636	44.160	54.796	-32.204	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 11:47
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 100M (LAN 1)

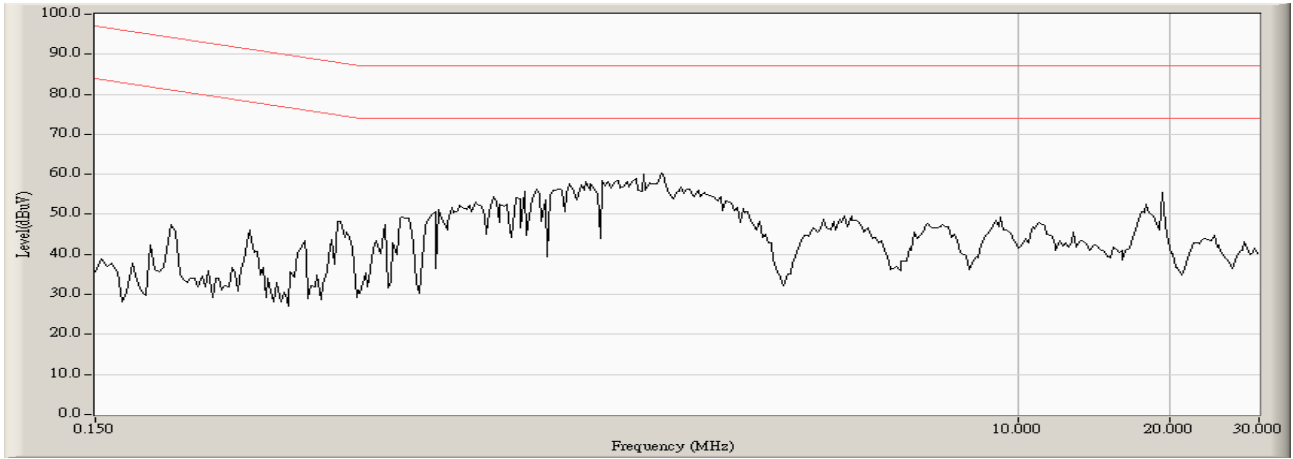


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.591	9.976	29.320	39.296	-34.704	74.000	AVERAGE
2		1.052	9.957	32.990	42.947	-31.053	74.000	AVERAGE
3		1.943	10.018	37.280	47.298	-26.702	74.000	AVERAGE
4		4.404	10.130	27.730	37.860	-36.140	74.000	AVERAGE
5		6.947	10.235	25.930	36.165	-37.835	74.000	AVERAGE
6	*	19.318	10.636	41.750	52.386	-21.614	74.000	AVERAGE

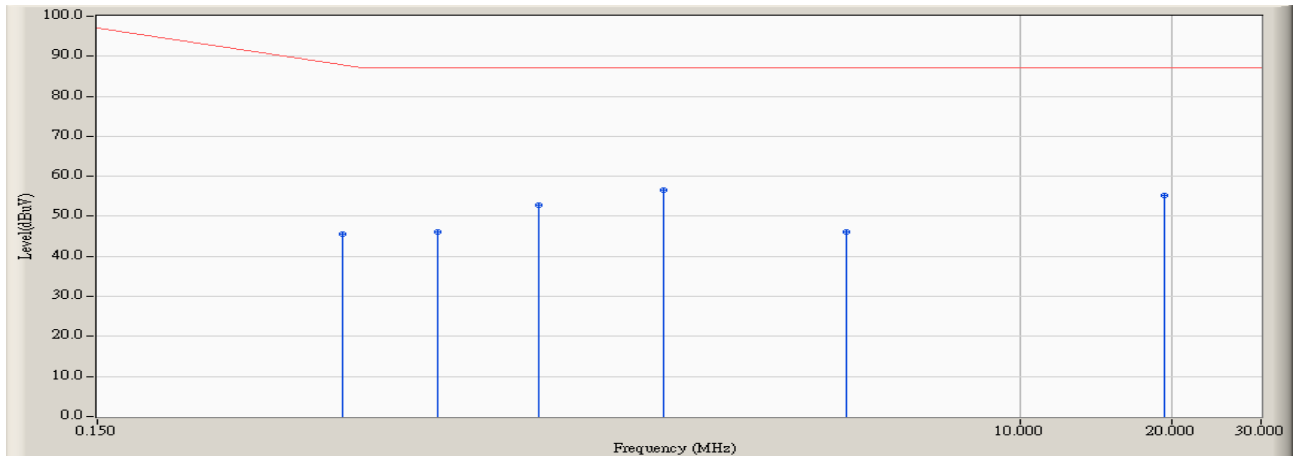
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:48</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 1G (LAN 1)</b>



Site : SR1	Time : 2015/09/03 - 11:50
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 1G (LAN 1)

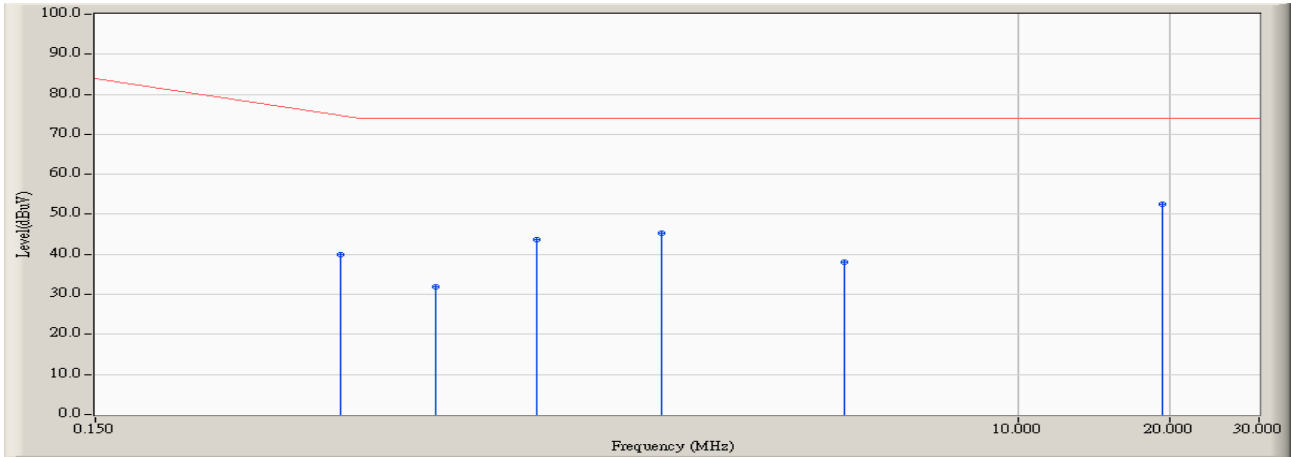


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.459	9.980	35.670	45.650	-42.521	88.171	QUASIPeAK
2		0.705	9.972	36.240	46.212	-40.788	87.000	QUASIPeAK
3		1.119	9.960	42.740	52.700	-34.300	87.000	QUASIPeAK
4	*	1.978	10.020	46.550	56.570	-30.430	87.000	QUASIPeAK
5		4.556	10.133	35.930	46.063	-40.937	87.000	QUASIPeAK
6		19.318	10.636	44.640	55.276	-31.724	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 11:50
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 1G (LAN 1)



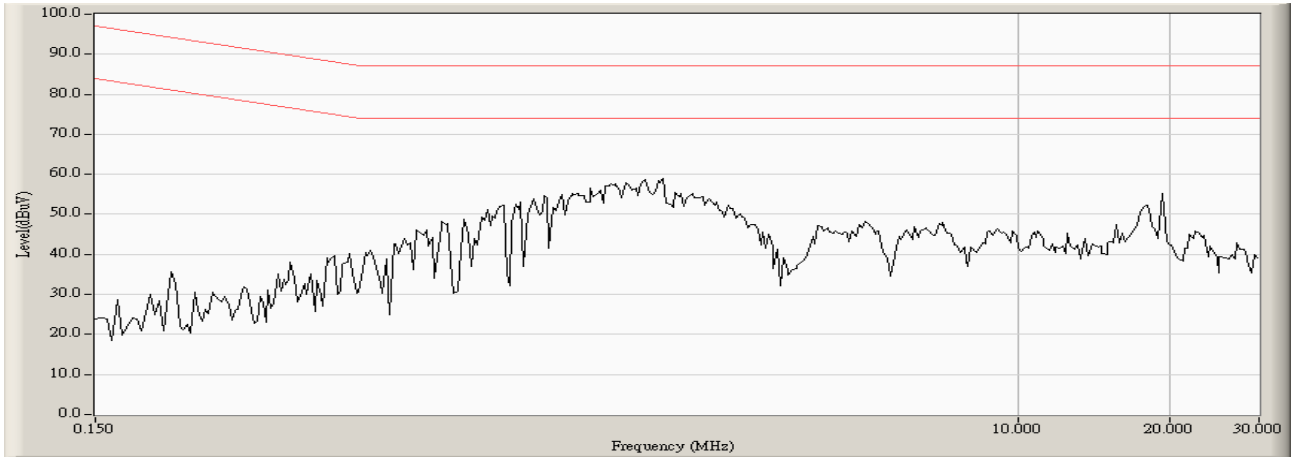
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.459	9.980	29.860	39.840	-35.331	75.171	AVERAGE
2		0.705	9.972	21.950	31.922	-42.078	74.000	AVERAGE
3		1.119	9.960	33.710	43.670	-30.330	74.000	AVERAGE
4		1.978	10.020	35.210	45.230	-28.770	74.000	AVERAGE
5		4.556	10.133	27.890	38.023	-35.977	74.000	AVERAGE
6	*	19.318	10.636	41.950	52.586	-21.414	74.000	AVERAGE

**Note:**

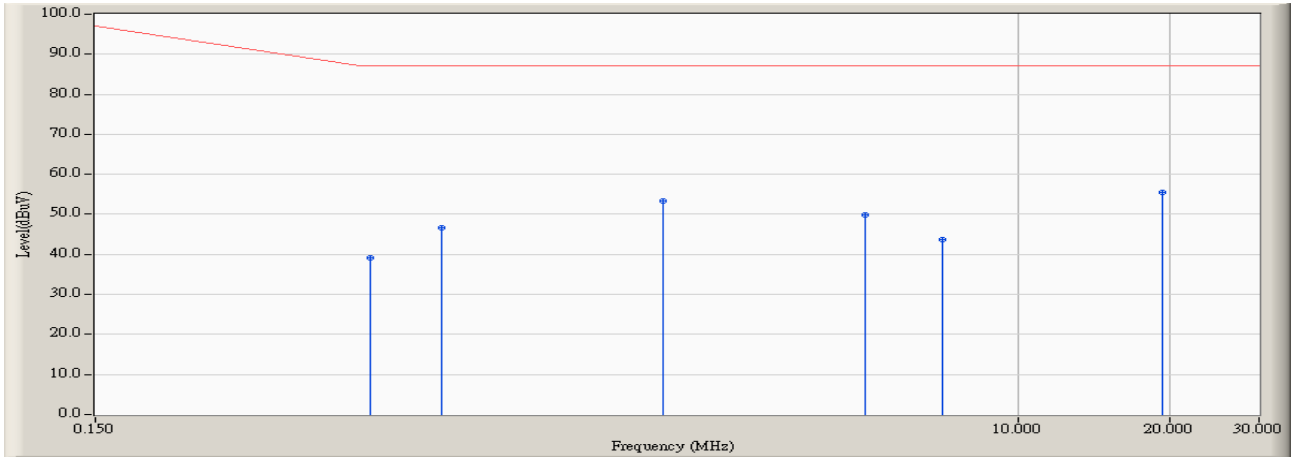
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:52</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 10M (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 11:54
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 10M (LAN 2)

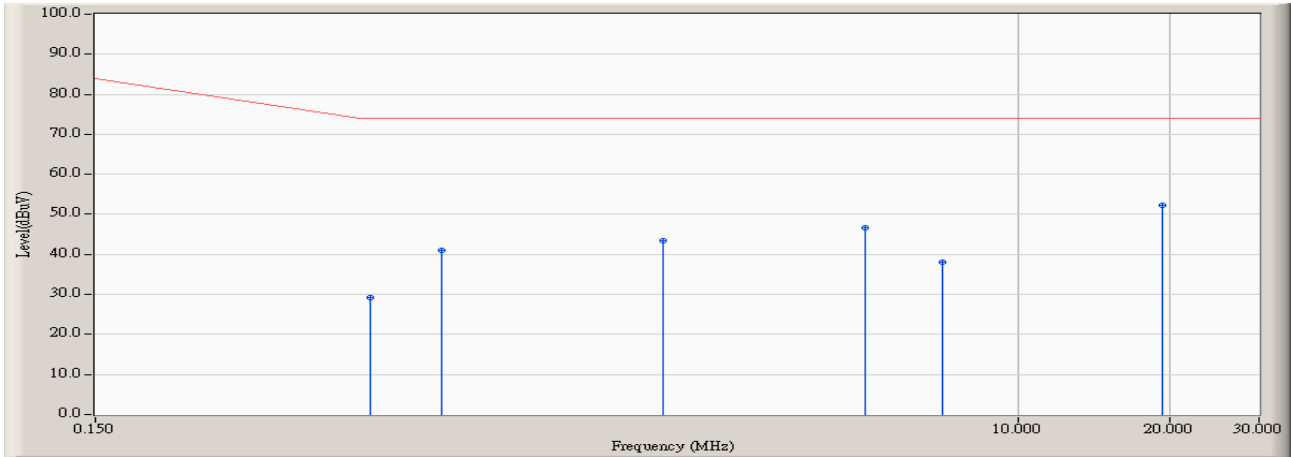


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.525	9.977	29.230	39.208	-47.792	87.000	QUASIPeAK
2		0.728	9.969	36.630	46.599	-40.401	87.000	QUASIPeAK
3		1.994	10.020	43.210	53.230	-33.770	87.000	QUASIPeAK
4		4.998	10.153	39.640	49.793	-37.207	87.000	QUASIPeAK
5		7.084	10.236	33.350	43.586	-43.414	87.000	QUASIPeAK
6	*	19.318	10.636	44.770	55.406	-31.594	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 11:54
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 10M (LAN 2)

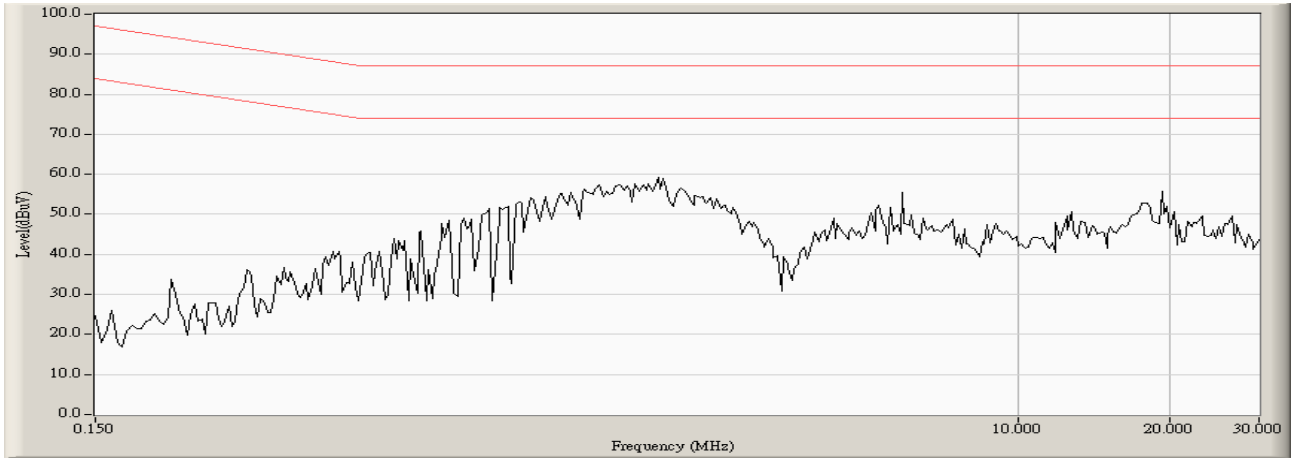


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.525	9.977	19.210	29.188	-44.812	74.000	AVERAGE
2		0.728	9.969	30.940	40.909	-33.091	74.000	AVERAGE
3		1.994	10.020	33.530	43.550	-30.450	74.000	AVERAGE
4		4.998	10.153	36.540	46.693	-27.307	74.000	AVERAGE
5		7.084	10.236	27.760	37.996	-36.004	74.000	AVERAGE
6	*	19.318	10.636	41.710	52.346	-21.654	74.000	AVERAGE

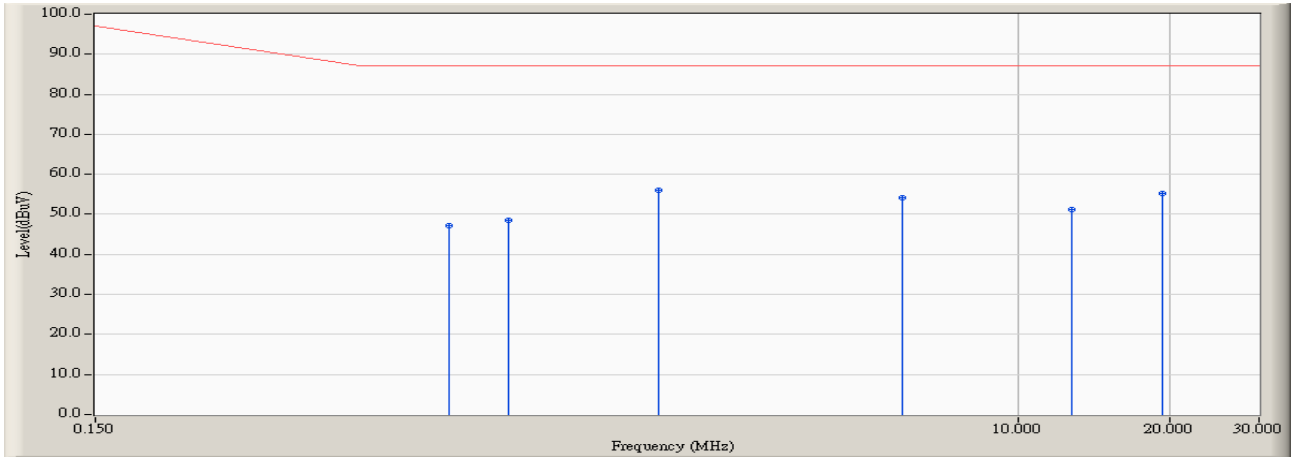
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:55</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 100M (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 11:56
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 100M (LAN 2)

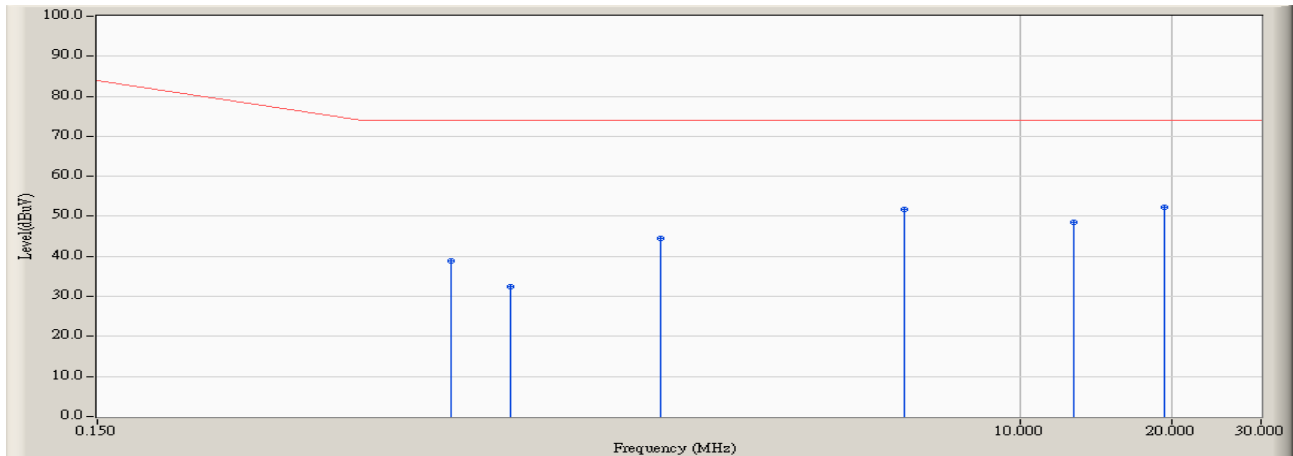


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.752	9.964	37.180	47.144	-39.856	87.000	QUASIPeAK
2		0.982	9.954	38.460	48.414	-38.586	87.000	QUASIPeAK
3	*	1.947	10.018	46.060	56.078	-30.922	87.000	QUASIPeAK
4		5.908	10.194	43.830	54.024	-32.976	87.000	QUASIPeAK
5		12.748	10.442	40.840	51.282	-35.718	87.000	QUASIPeAK
6		19.318	10.636	44.460	55.096	-31.904	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR1	Time : 2015/09/03 - 11:56
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 100M (LAN 2)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.752	9.964	28.800	38.764	-35.236	74.000	AVERAGE
2		0.982	9.954	22.550	32.504	-41.496	74.000	AVERAGE
3		1.947	10.018	34.470	44.488	-29.512	74.000	AVERAGE
4		5.908	10.194	41.640	51.834	-22.166	74.000	AVERAGE
5		12.748	10.442	38.150	48.592	-25.408	74.000	AVERAGE
6	*	19.318	10.636	41.670	52.306	-21.694	74.000	AVERAGE

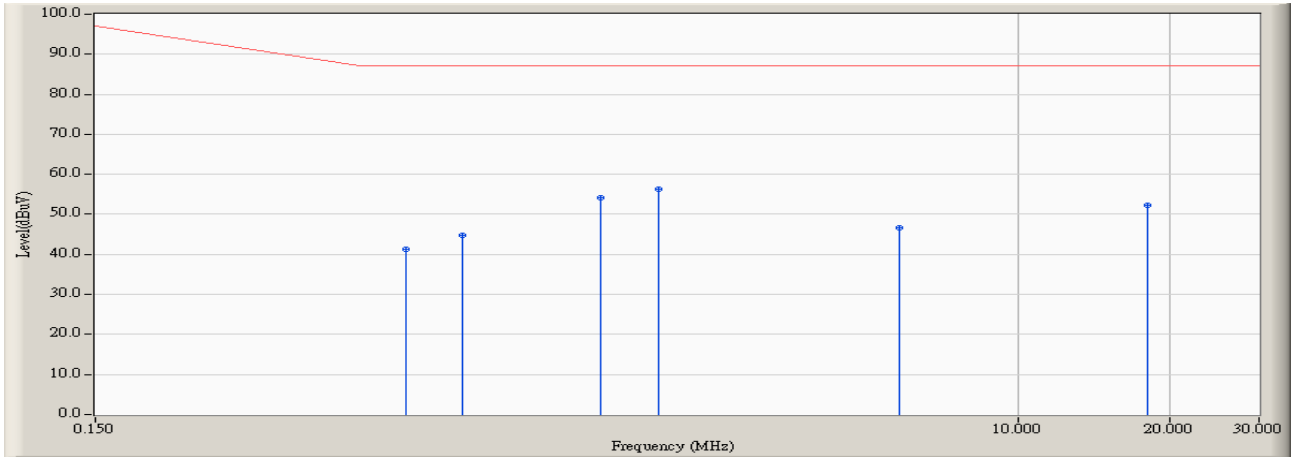
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : SR1</b>	<b>Time : 2015/09/03 - 11:57</b>
<b>Limit : ISN_Voltage_A_00M_QP</b>	<b>Margin : 13</b>
<b>EUT : IPC</b>	<b>Probe : TESEQ_ST08 - Line1</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3: ISN 1G (LAN 2)</b>



Site : SR1	Time : 2015/09/03 - 12:00
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 1G (LAN 2)



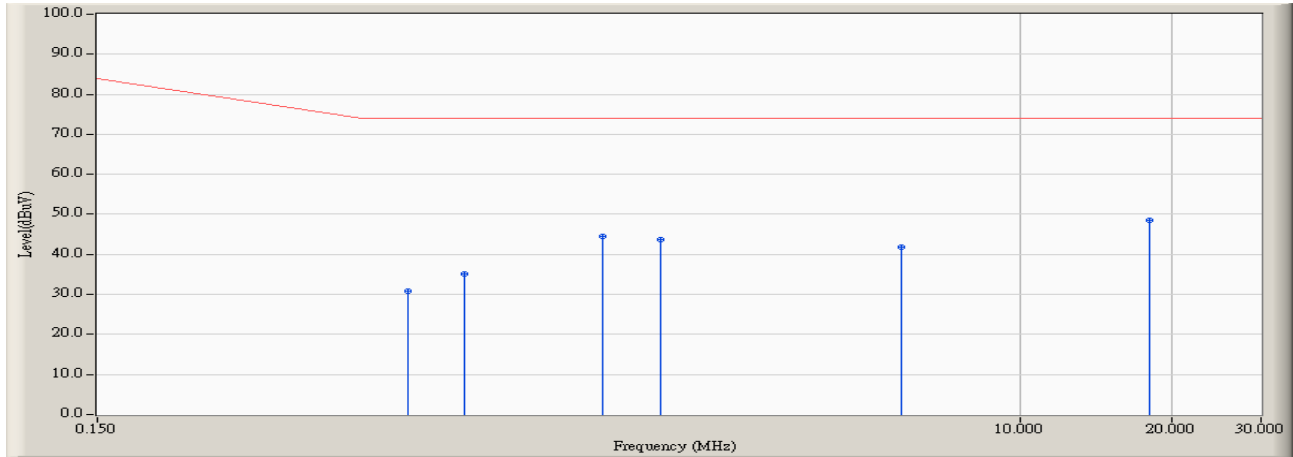
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.615	9.978	31.340	41.318	-45.682	87.000	QUASIPeAK
2		0.798	9.966	34.710	44.676	-42.324	87.000	QUASIPeAK
3		1.494	9.987	44.120	54.107	-32.893	87.000	QUASIPeAK
4	*	1.955	10.018	46.380	56.398	-30.602	87.000	QUASIPeAK
5		5.822	10.192	36.420	46.612	-40.388	87.000	QUASIPeAK
6		18.048	10.604	41.600	52.204	-34.796	87.000	QUASIPeAK

**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Site : SR1	Time : 2015/09/03 - 12:00
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : IPC	Probe : TESEQ_ST08 - Line1
Power : DC 110V	Note : Mode 3: ISN 1G (LAN 2)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.615	9.978	20.780	30.758	-43.242	74.000	AVERAGE
2		0.798	9.966	25.100	35.066	-38.934	74.000	AVERAGE
3		1.494	9.987	34.460	44.447	-29.553	74.000	AVERAGE
4		1.955	10.018	33.800	43.818	-30.182	74.000	AVERAGE
5		5.822	10.192	31.640	41.832	-32.168	74.000	AVERAGE
6	*	18.048	10.604	37.800	48.404	-25.596	74.000	AVERAGE

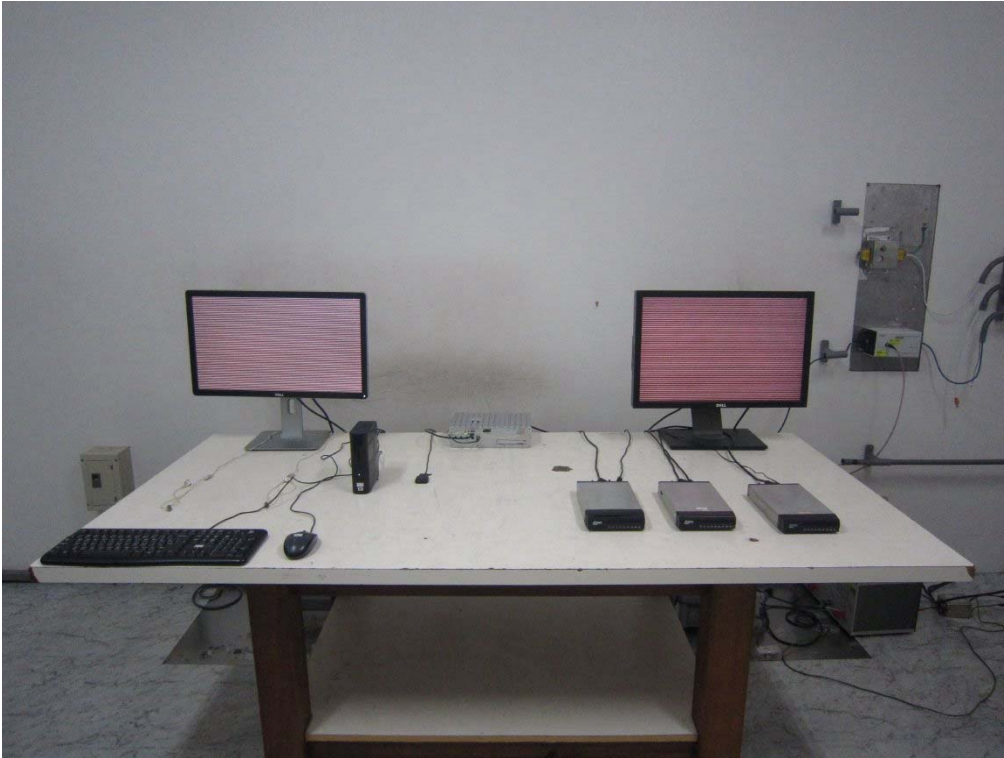
**Note:**

1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

### 3.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Front View of ISN Test



Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Back View of ISN Test



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : Front View of ISN Test

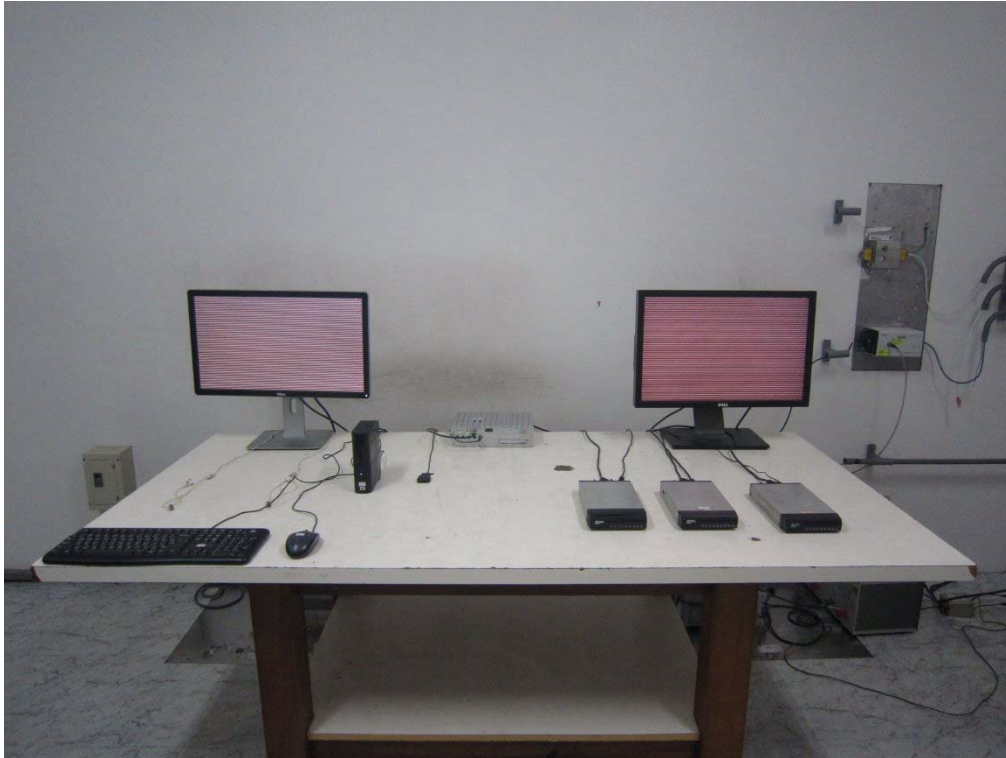


Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : Back View of ISN Test





Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Front View of ISN Test



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Back View of ISN Test



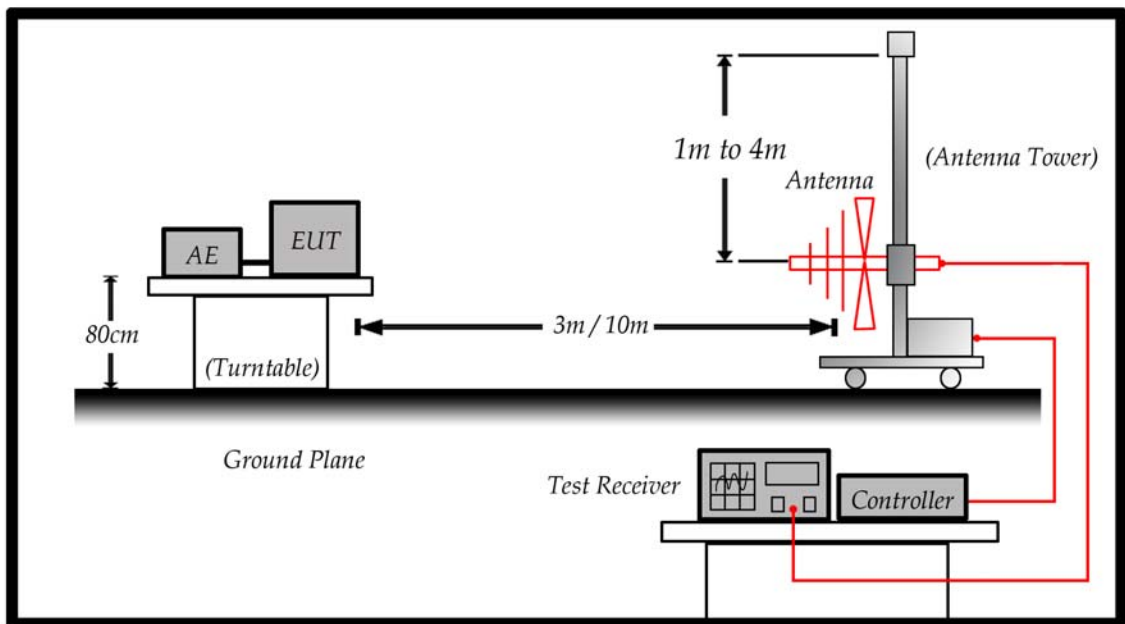
## 4. Radiated Emission

### 4.1. Test Specification

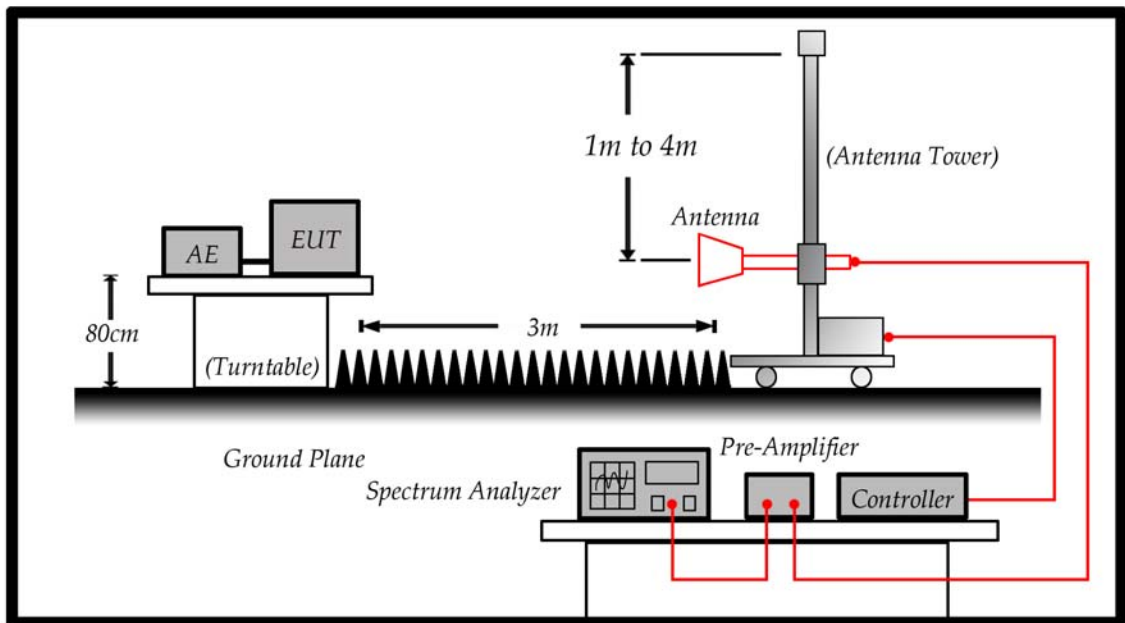
According to EMC Standard : EN 55022

### 4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



### 4.3. Limit

Limits		
Frequency MHz	Distance (m)	dBuV/m
30 – 230	10	40
230 – 1000	10	47

Limits			
Frequency (GHz)	Distance (m)	Peak (dBuV/m)	Average (dBuV/m)
1 – 3	3	76	56
3 – 6	3	80	60

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 6 GHz, whichever is lower

#### **4.4. Test Procedure**

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3/10 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz and above 1GHz using a receiver bandwidth of 1MHz.

30MHz to 1GHz Radiated was performed at an antenna to EUT distance of 10 meters.

Above 1GHz Radiated was performed at an antenna to EUT distance of 3 meters.

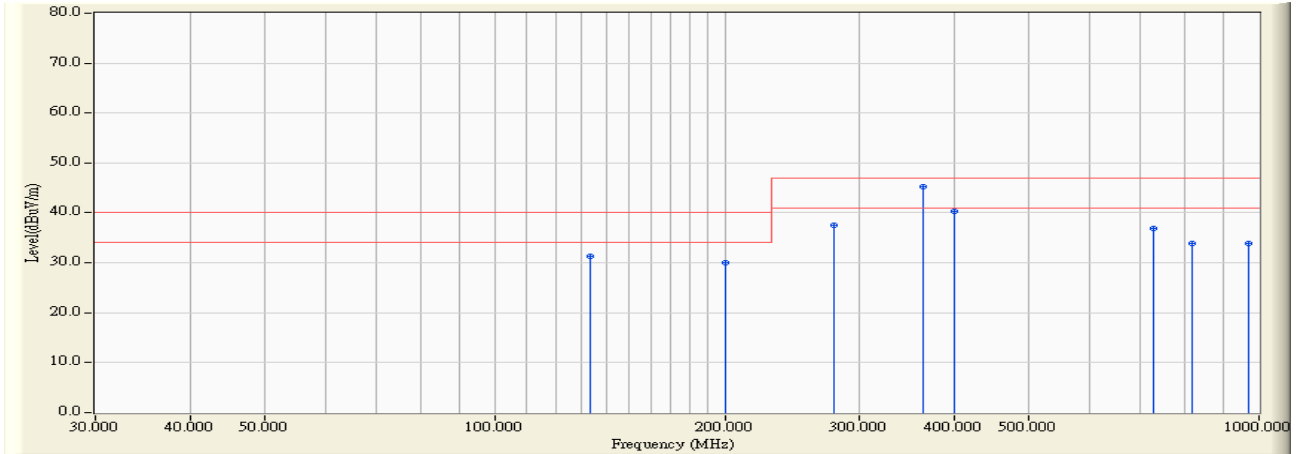
It is placed with absorb on the ground between EUT and Antenna.

#### **4.5. Deviation from Test Standard**

No deviation.

### 4.6. Test Result

Site : Site4	Time : 2015/08/25 - 15:21
Limit : CISPR_A_10M_QP	Margin : 6
EUT : IPC	Probe : Site4_CBL6112_10M_1506 - HORIZONTAL
Power : DC 24V	Note : Mode 1



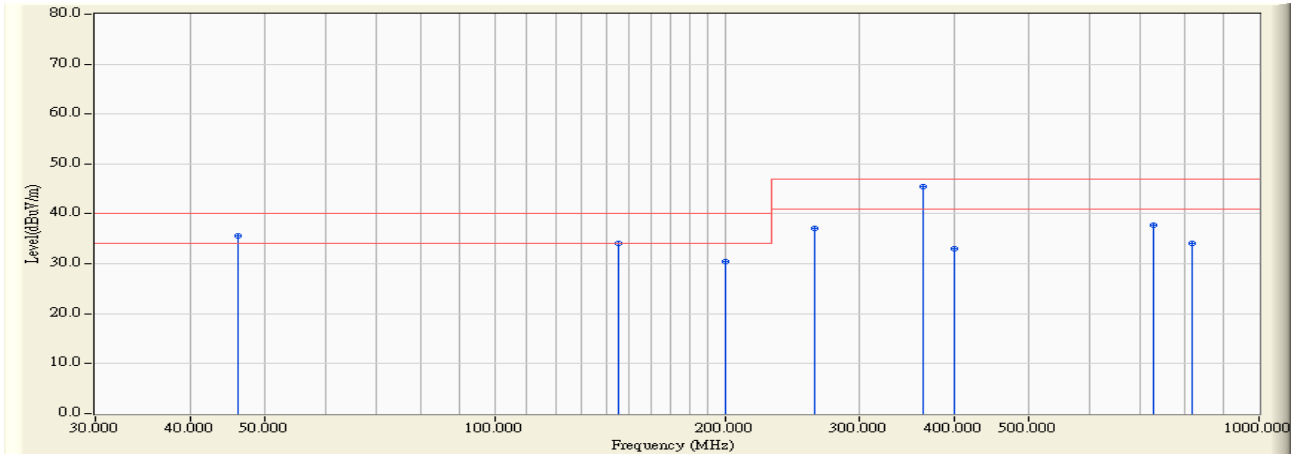
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	133.330	14.238	17.000	31.238	-8.762	40.000	QUASPEAK
2	200.200	12.334	17.600	29.934	-10.066	40.000	QUASPEAK
3	277.200	16.593	21.000	37.594	-9.406	47.000	QUASPEAK
4	* 364.000	19.183	26.100	45.283	-1.717	47.000	QUASPEAK
5	400.000	20.549	19.700	40.249	-6.751	47.000	QUASPEAK
6	729.000	25.882	11.000	36.882	-10.118	47.000	QUASPEAK
7	816.200	27.000	6.800	33.800	-13.200	47.000	QUASPEAK
8	970.210	29.146	4.800	33.946	-13.054	47.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



<b>Site : Site4</b>	<b>Time : 2015/08/25 - 15:44</b>
<b>Limit : CISPR_A_10M_QP</b>	<b>Margin : 6</b>
<b>EUT : IPC</b>	<b>Probe : Site4_CBL6112_10M_1506 - VERTICAL</b>
<b>Power : DC 24V</b>	<b>Note : Mode 1</b>

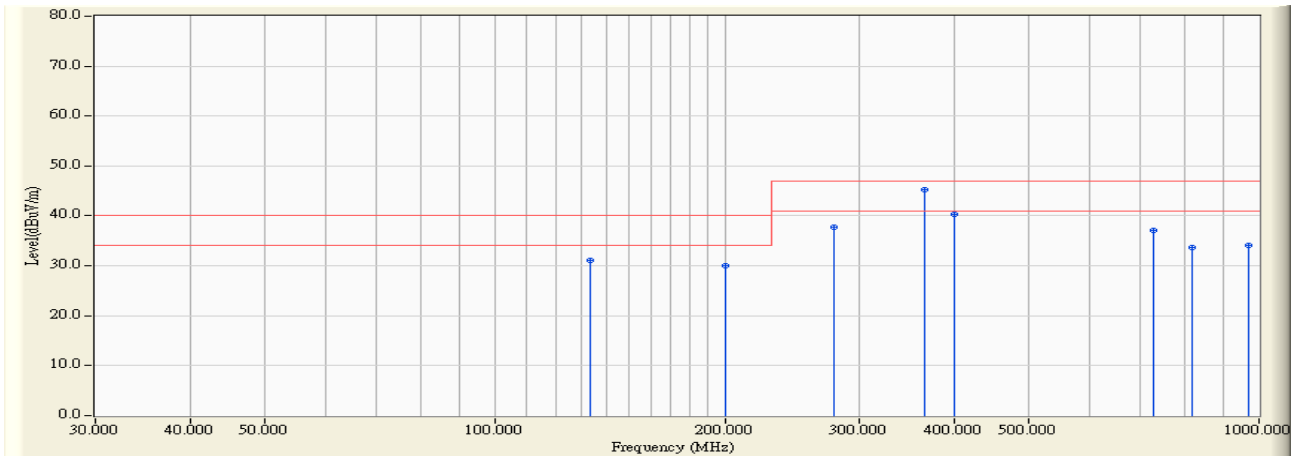


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.200	11.338	24.300	35.638	-4.362	40.000	QUASIPeAK
2		145.200	13.535	20.600	34.134	-5.866	40.000	QUASIPeAK
3		200.200	12.334	18.100	30.434	-9.566	40.000	QUASIPeAK
4		261.800	17.073	20.100	37.173	-9.827	47.000	QUASIPeAK
5	*	363.500	19.164	26.200	45.364	-1.636	47.000	QUASIPeAK
6		400.000	20.549	12.500	33.049	-13.951	47.000	QUASIPeAK
7		727.000	25.836	11.900	37.736	-9.264	47.000	QUASIPeAK
8		816.200	27.000	7.100	34.100	-12.900	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : Site4	Time : 2015/08/25 - 16:31
Limit : CISPR_A_10M_QP	Margin : 6
EUT : IPC	Probe : Site4_CBL6112_10M_1506 - HORIZONTAL
Power : DC 36V	Note : Mode 2

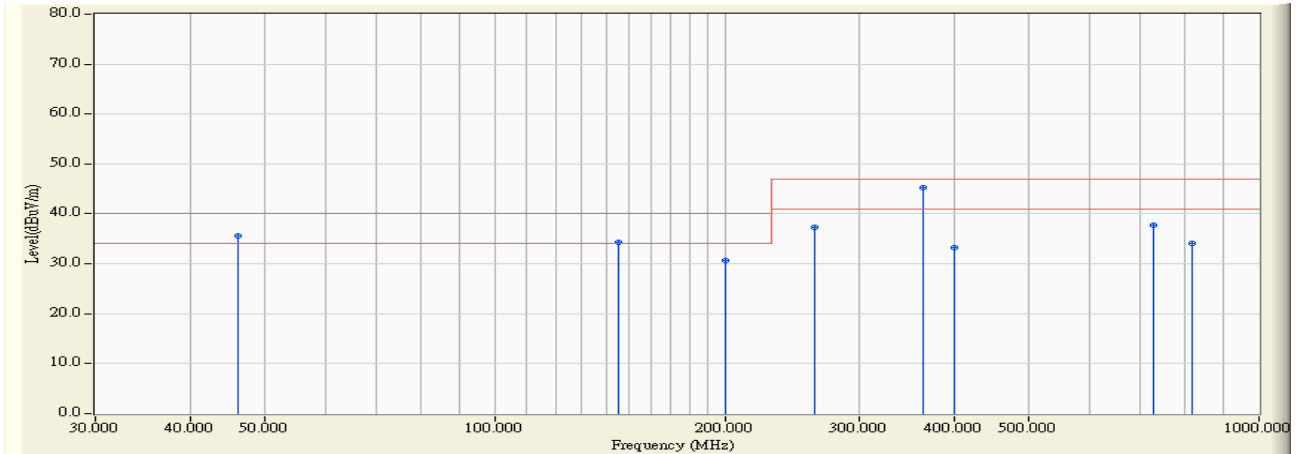


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		133.320	14.239	16.900	31.139	-8.861	40.000	QUASIPeAK
2		200.200	12.334	17.800	30.134	-9.866	40.000	QUASIPeAK
3		277.200	16.593	21.200	37.794	-9.206	47.000	QUASIPeAK
4	*	364.500	19.203	26.100	45.304	-1.696	47.000	QUASIPeAK
5		400.000	20.549	19.800	40.349	-6.651	47.000	QUASIPeAK
6		729.000	25.882	11.200	37.082	-9.918	47.000	QUASIPeAK
7		816.100	26.998	6.600	33.598	-13.402	47.000	QUASIPeAK
8		970.200	29.146	5.000	34.146	-12.854	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : Site4</b>	<b>Time : 2015/08/25 - 16:33</b>
<b>Limit : CISPR_A_10M_QP</b>	<b>Margin : 6</b>
<b>EUT : IPC</b>	<b>Probe : Site4_CBL6112_10M_1506 - VERTICAL</b>
<b>Power : DC 36V</b>	<b>Note : Mode 2</b>

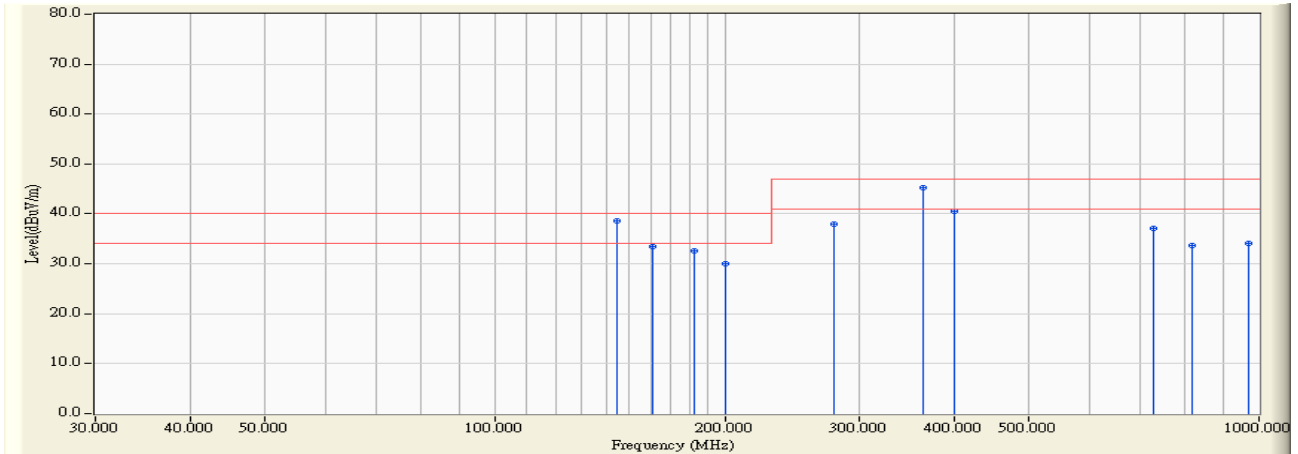


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	46.200	11.338	24.200	35.538	-4.462	40.000	QUASIPeAK
2	145.180	13.535	20.700	34.235	-5.765	40.000	QUASIPeAK
3	200.200	12.334	18.300	30.634	-9.366	40.000	QUASIPeAK
4	261.700	17.082	20.300	37.382	-9.618	47.000	QUASIPeAK
5	* 363.500	19.164	26.100	45.264	-1.736	47.000	QUASIPeAK
6	400.000	20.549	12.600	33.149	-13.851	47.000	QUASIPeAK
7	727.000	25.836	12.000	37.836	-9.164	47.000	QUASIPeAK
8	816.200	27.000	7.000	34.000	-13.000	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : Site4</b>	<b>Time : 2015/08/25 - 17:25</b>
<b>Limit : CISPR_A_10M_QP</b>	<b>Margin : 6</b>
<b>EUT : IPC</b>	<b>Probe : Site4_CBL6112_10M_1506 - HORIZONTAL</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3</b>

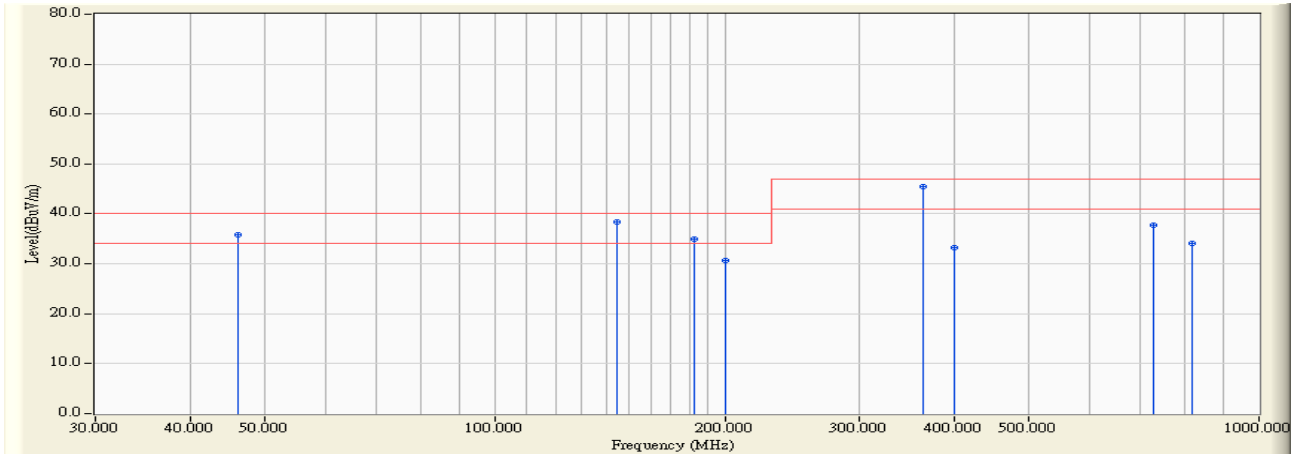


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	144.500	13.577	25.100	38.678	-1.322	40.000	QUASPEAK
2		161.150	12.874	20.600	33.474	-6.526	40.000	QUASPEAK
3		182.550	12.088	20.600	32.687	-7.313	40.000	QUASPEAK
4		200.200	12.334	17.700	30.034	-9.966	40.000	QUASPEAK
5		277.200	16.593	21.300	37.894	-9.106	47.000	QUASPEAK
6		364.200	19.191	26.000	45.191	-1.809	47.000	QUASPEAK
7		400.000	20.549	20.000	40.549	-6.451	47.000	QUASPEAK
8		729.010	25.882	11.200	37.083	-9.917	47.000	QUASPEAK
9		816.210	27.000	6.600	33.601	-13.399	47.000	QUASPEAK
10		970.200	29.146	4.900	34.046	-12.954	47.000	QUASPEAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

<b>Site : Site4</b>	<b>Time : 2015/08/25 - 17:39</b>
<b>Limit : CISPR_A_10M_QP</b>	<b>Margin : 6</b>
<b>EUT : IPC</b>	<b>Probe : Site4_CBL6112_10M_1506 - VERTICAL</b>
<b>Power : DC 110V</b>	<b>Note : Mode 3</b>

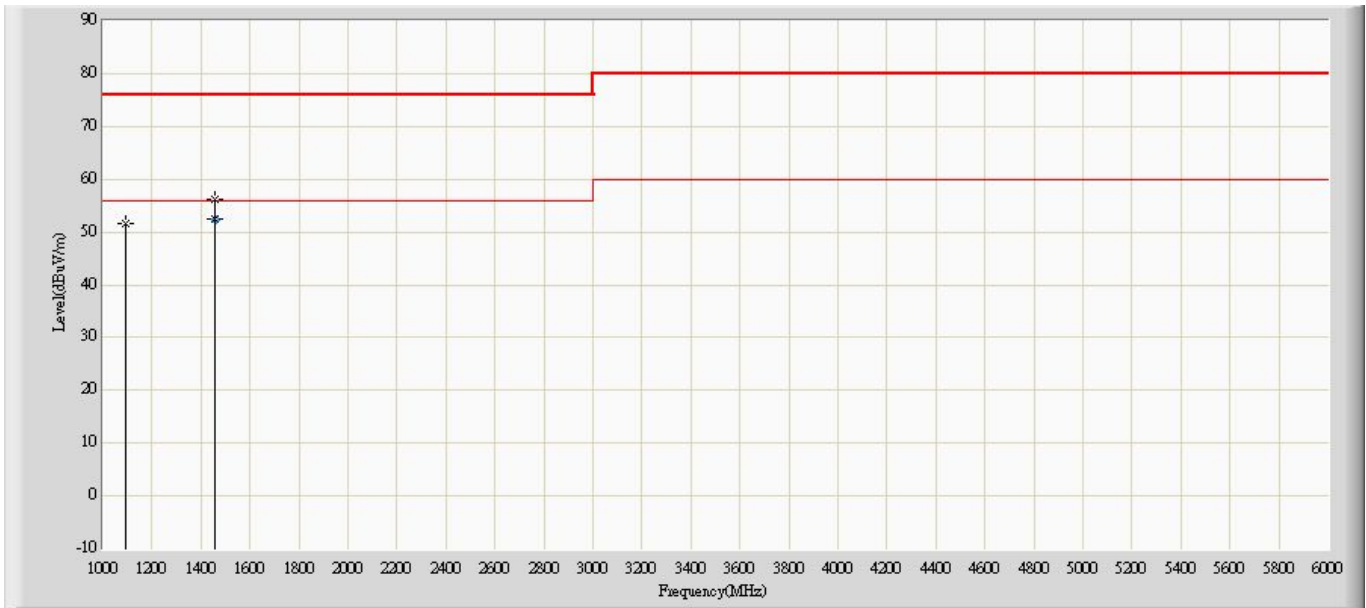


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		46.200	11.338	24.500	35.838	-4.162	40.000	QUASIPeAK
2	*	144.400	13.584	24.900	38.484	-1.516	40.000	QUASIPeAK
3		182.050	12.093	22.900	34.992	-5.008	40.000	QUASIPeAK
4		200.200	12.334	18.300	30.634	-9.366	40.000	QUASIPeAK
5		363.500	19.164	26.200	45.364	-1.636	47.000	QUASIPeAK
6		400.000	20.549	12.700	33.249	-13.751	47.000	QUASIPeAK
7		727.100	25.837	12.000	37.837	-9.163	47.000	QUASIPeAK
8		816.200	27.000	7.200	34.200	-12.800	47.000	QUASIPeAK

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site: CB7	Time: 2015/09/08 - 09:59
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Horizontal
EUT : IPC	Power: DC 24V
Note : Mode 1	

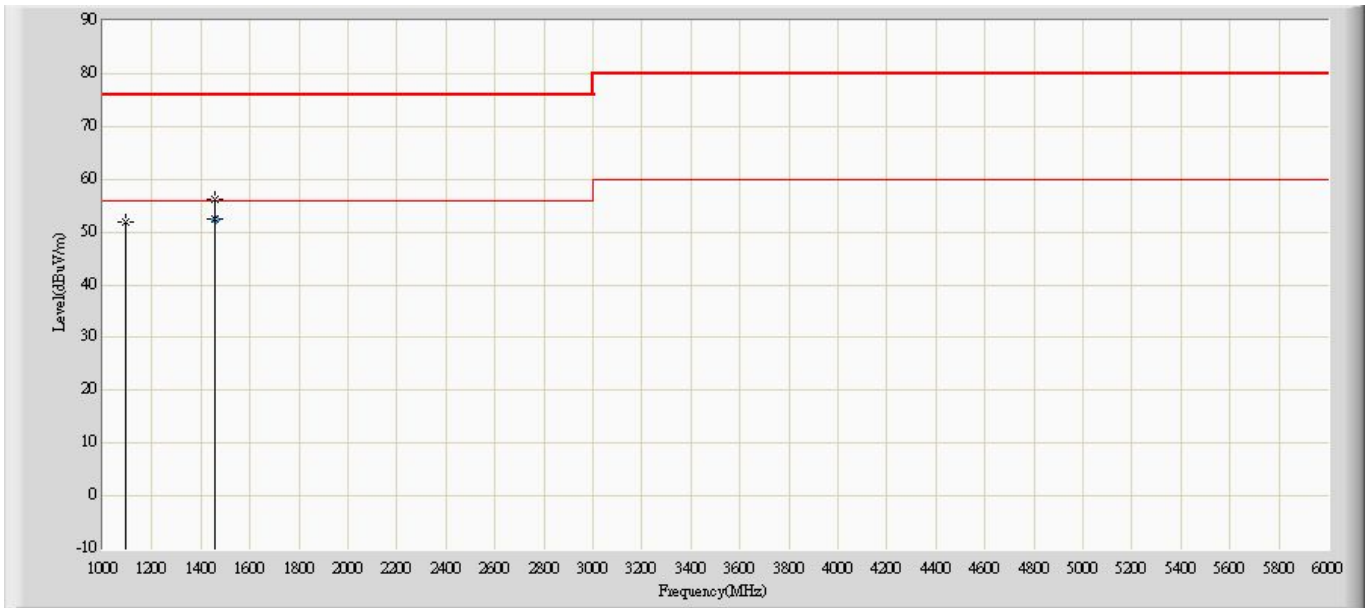


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1090.000	51.699	50.099	-24.301	76.000	1.600	PK
2			1455.000	56.309	54.093	-19.691	76.000	2.216	PK
3		*	1455.000	52.336	50.120	-3.664	56.000	2.216	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/09/08 - 10:04
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Vertical
EUT : IPC	Power: DC 24V
Note : Mode 1	

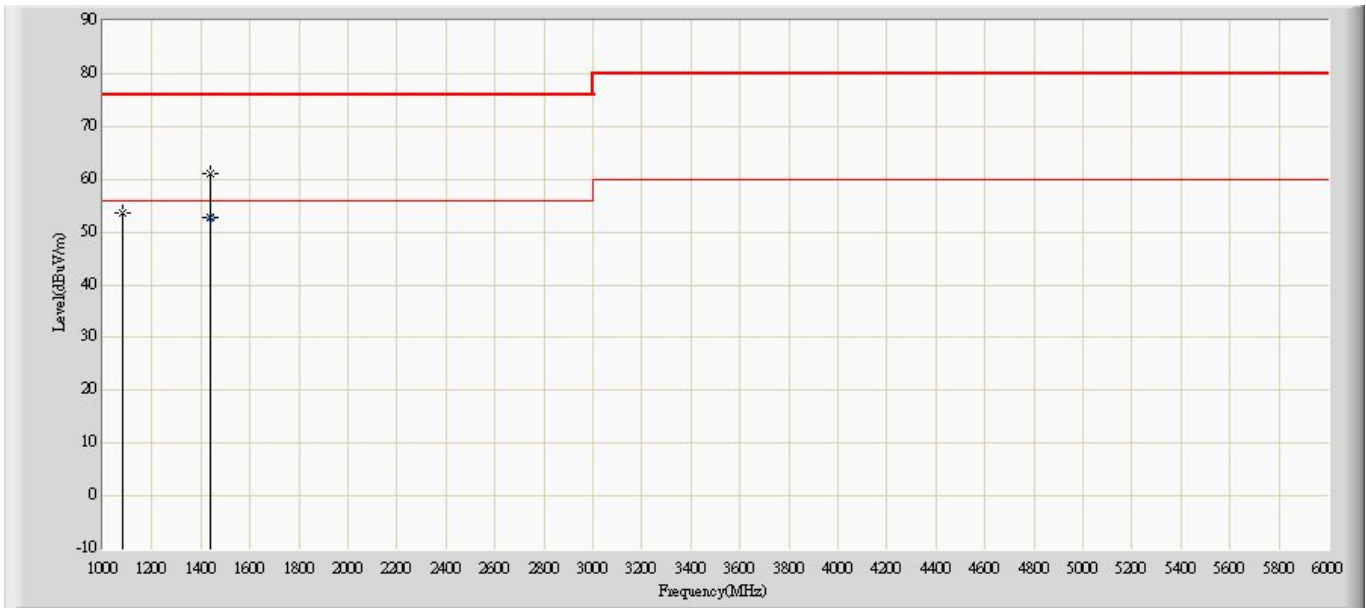


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1090.000	51.845	50.245	-24.155	76.000	1.600	PK
2			1455.000	56.332	54.116	-19.668	76.000	2.216	PK
3		*	1455.000	52.456	50.240	-3.544	56.000	2.216	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/09/08 - 10:22
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Horizontal
EUT : IPC	Power: DC 36V
Note : Mode 2	



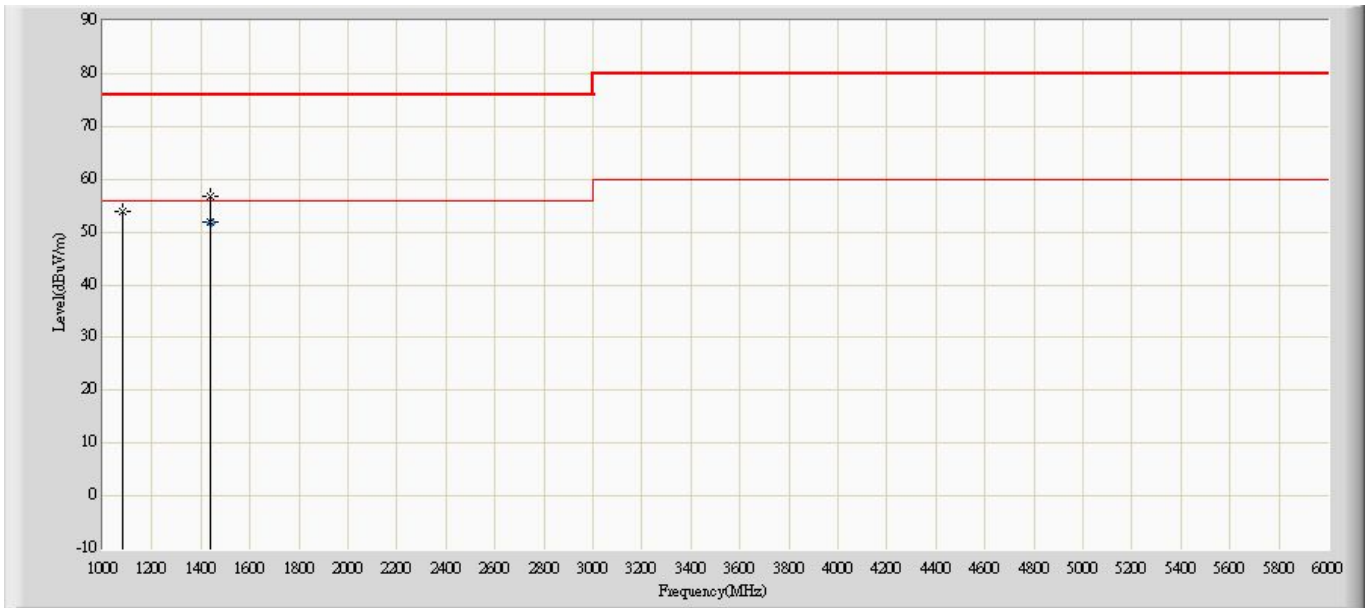
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1080.000	53.571	51.971	-22.429	76.000	1.600	PK
2			1440.000	60.984	58.911	-15.016	76.000	2.073	PK
3		*	1440.000	52.863	50.790	-3.137	56.000	2.073	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).



Site: CB7	Time: 2015/09/08 - 10:26
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Vertical
EUT : IPC	Power: DC 36V
Note : Mode 2	

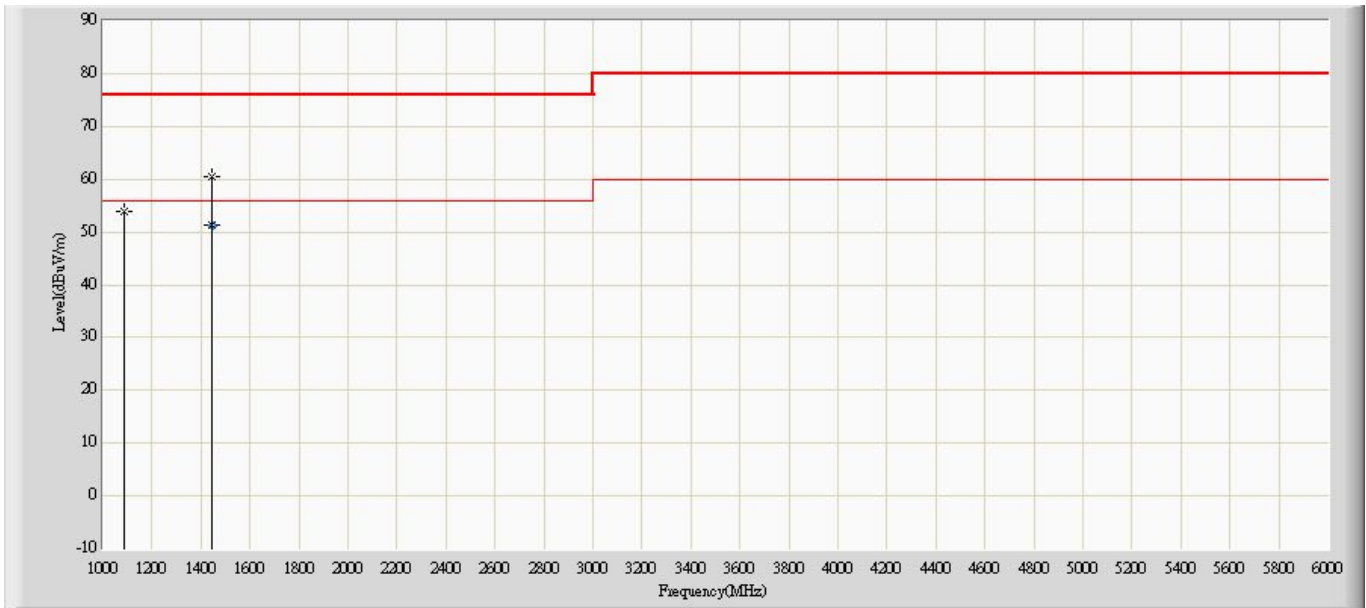


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1080.000	54.027	52.427	-21.973	76.000	1.600	PK
2			1440.000	56.687	54.614	-19.313	76.000	2.073	PK
3		*	1440.000	51.943	49.870	-4.057	56.000	2.073	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/09/08 - 10:43
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Horizontal
EUT : IPC	Power: DC 110V
Note : Mode 3	

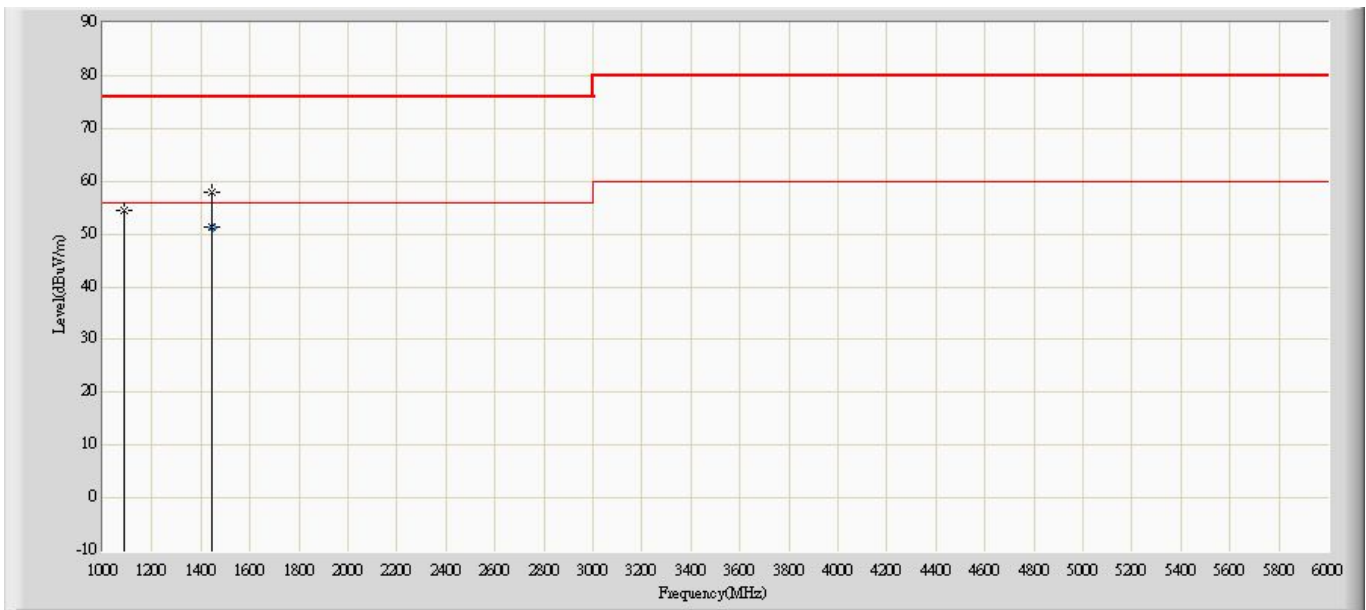


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1085.000	53.940	52.340	-22.060	76.000	1.600	PK
2			1445.000	60.628	58.461	-15.372	76.000	2.167	PK
3		*	1445.000	51.427	49.260	-4.573	56.000	2.167	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2015/09/08 - 10:48
Limit: EN55022_A_(Above_1G)	Margin: 0
Probe: CB7_Horn_9120D_1411	Polarity: Vertical
EUT : IPC	Power: DC 110V
Note : Mode 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1085.000	54.570	52.970	-21.430	76.000	1.600	PK
2			1445.000	57.767	55.600	-18.233	76.000	2.167	PK
3		*	1445.000	51.417	49.250	-4.583	56.000	2.167	AV

**Note:**

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

#### 4.7. Test Photograph

Test Mode: Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description: Front View of Radiated Test



Test Mode: Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

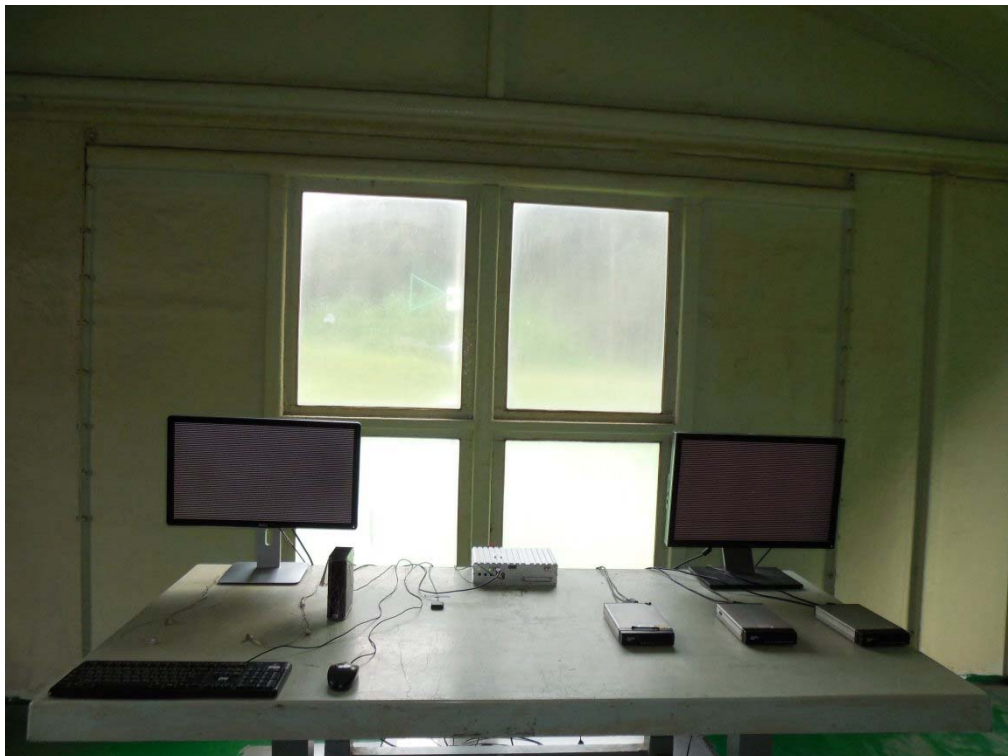
Description: Back View of Radiated Test



Test Mode: Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V  
Description : Front View of High Frequency Radiated Test



Test Mode: Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description: Front View of Radiated Test





Test Mode: Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description: Back View of Radiated Test



Test Mode: Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : Front View of High Frequency Radiated Test



Test Mode: Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description: Front View of Radiated Test



Test Mode: Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description: Back View of Radiated Test



Test Mode: Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Front View of High Frequency Radiated Test



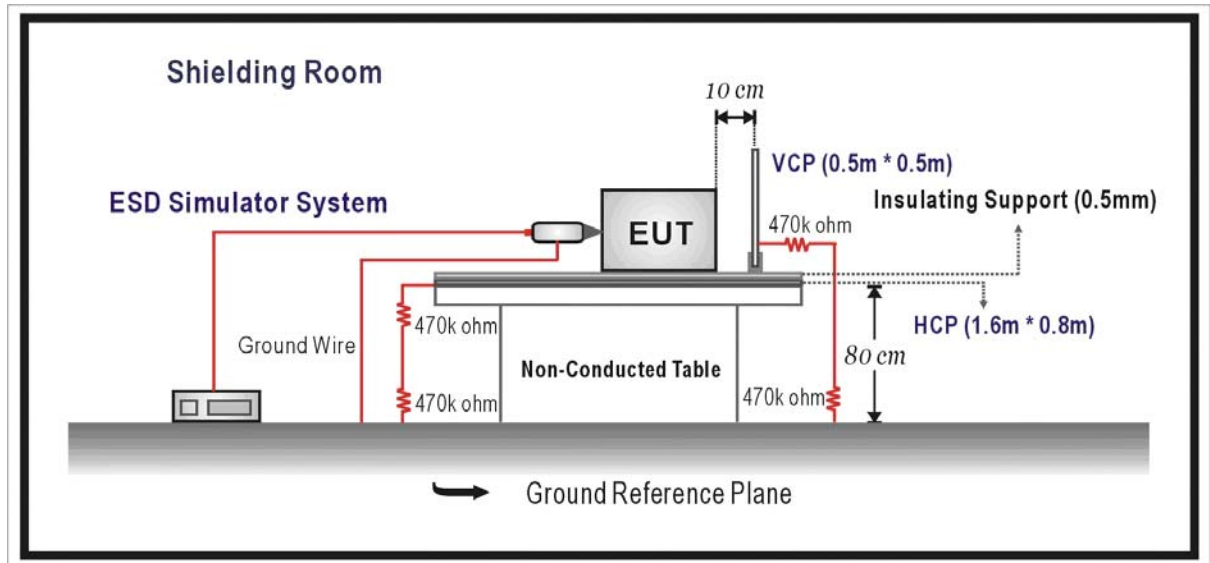


## 5. Electrostatic Discharge

### 5.1. Test Specification

According to Standard : IEC 61000-4-2

### 5.2. Test Setup



### 5.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
Enclosure Port				
	Electrostatic Discharge	kV(Charge Voltage)	±8 Air Discharge ±4 Contact Discharge	B

## 5.4. Test Procedure

Direct application of discharges to the EUT:

Contact discharge was applied only to conductive surfaces of the EUT.

Air discharges were applied only to non-conductive surfaces of the EUT.

During the test, it was performed with single discharges. For the single discharge time between successive single discharges will be keep longer 1 second. It was at least ten single discharges with positive and negative at the same selected point.

The selected point, which was performed with electrostatic discharge, was marked on the red label of the EUT.

Indirect application of discharges to the EUT:

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge. It was at least ten single discharges with positive and negative at the same selected point.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge. It was at least ten single discharges with positive and negative at the same selected point.

## 5.5. Deviation from Test Standard

No deviation.

**5.6. Test Result**

Product	IPC		
Test Item	Electrostatic Discharge		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Item	Amount of Discharge	Voltage	Required Criteria	Complied To Criteria (A,B,C)	Results
Air Discharge	10	+8kV	B	B	Pass
	10	-8kV	B	B	Pass
Contact Discharge	25	+4kV	B	B	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (HCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (VCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

NR: No Requirement

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_ kV.
  - No false alarms or other malfunctions were observed during or after the test.

Remark:

The Contact discharges were applied at least total 200 discharges at a minimum of four test points.

Product	IPC		
Test Item	Electrostatic Discharge		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Item	Amount of Discharge	Voltage	Required Criteria	Complied To Criteria (A,B,C)	Results
Air Discharge	10	+8kV	B	B	Pass
	10	-8kV	B	B	Pass
Contact Discharge	25	+4kV	B	B	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (HCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (VCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

NR: No Requirement

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_ kV.
  - No false alarms or other malfunctions were observed during or after the test.

Remark:

The Contact discharges were applied at least total 200 discharges at a minimum of four test points.

Product	IPC		
Test Item	Electrostatic Discharge		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Item	Amount of Discharge	Voltage	Required Criteria	Complied To Criteria (A,B,C)	Results
Air Discharge	10	+8kV	B	B	Pass
	10	-8kV	B	B	Pass
Contact Discharge	25	+4kV	B	B	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (HCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass
Indirect Discharge (VCP)	25	+4kV	B	A	Pass
	25	-4kV	B	A	Pass

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

NR: No Requirement

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_ kV.
  - No false alarms or other malfunctions were observed during or after the test.

Remark:

The Contact discharges were applied at least total 200 discharges at a minimum of four test points.

### 5.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : ESD Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V

Description : ESD Test Setup



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : ESD Test Setup





**5.8. EUT to dot photo for ESD test**  
Test dot: (Air Discharge)



Test dot: (Air Discharge)





Test dot: (Contact Discharge)



Test dot: (Contact Discharge)





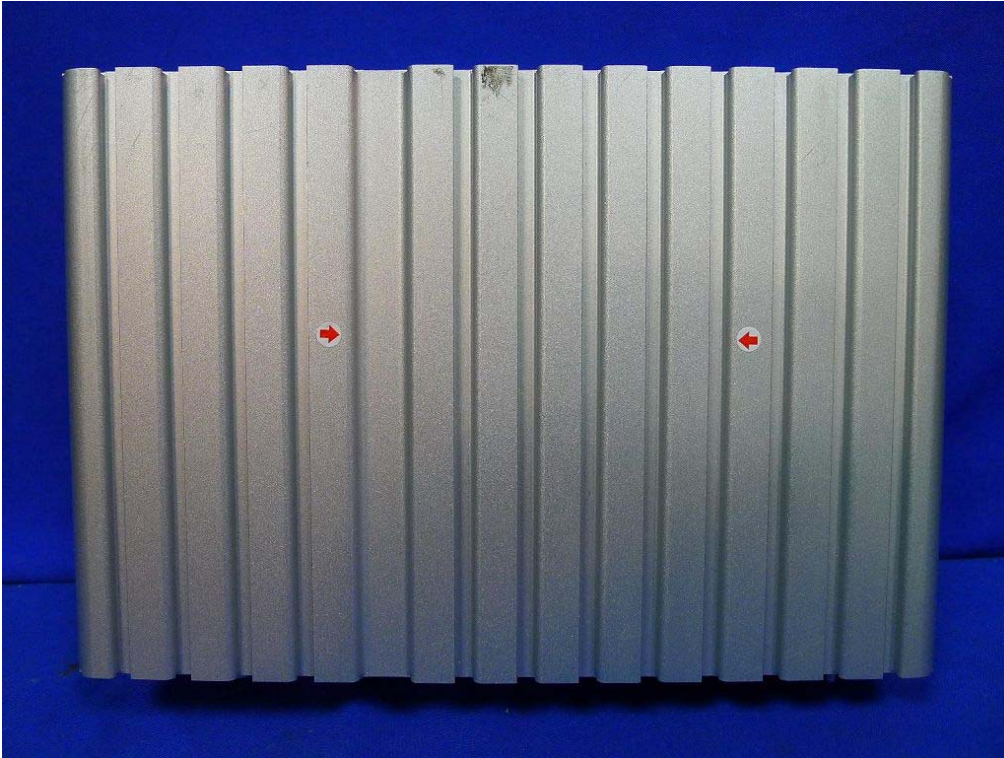
Test dot: (Contact Discharge)



Test dot: (Contact Discharge)



Test dot: (Contact Discharge)

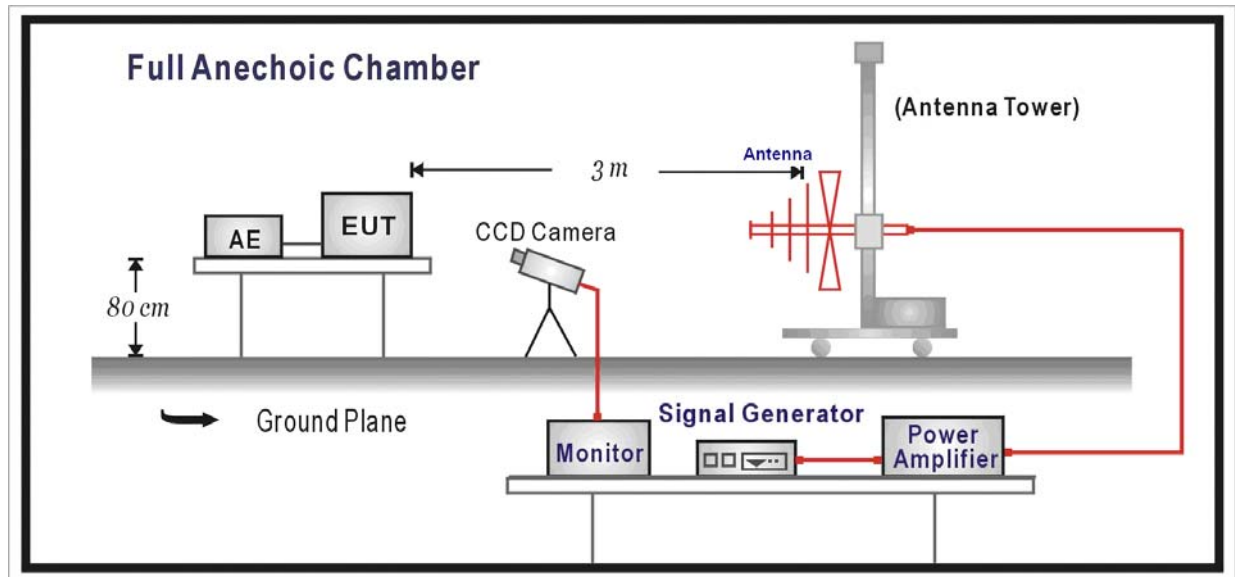


## 6. Radiated Susceptibility

### 6.1. Test Specification

According to Standard : IEC 61000-4-3

### 6.2. Test Setup



### 6.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
Enclosure Port				
	Radio-Frequency	MHz	80-1000	A
	Electromagnetic Field	V/m(Un-modulated, rms)	3	
	Amplitude Modulated	% AM (1kHz)	80	

## 6.4. Test Procedure

The EUT and load, which are placed on a table that is 0.8 meter above ground, are placed with one coincident with the calibration plane such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna and four sides of the EUT are set on measurement.

In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

All the scanning conditions are as follows:

Condition of Test	Remarks
1. Field Strength	3 V/m Level 2
2. Radiated Signal	AM 80% Modulated with 1kHz
3. Scanning Frequency	80MHz - 1000MHz
4. Dwell Time	3 Seconds
5. Frequency step size $\Delta f$ :	1%
6. The rate of Swept of Frequency	$1.5 \times 10^{-3}$ decades/s

## 6.5. Deviation from Test Standard

No deviation.



**6.6. Test Result**

Product	IPC		
Test Item	Radiated susceptibility		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/11	Test Site	Chamber5

Frequency (MHz)	Position (Angle)	Polarity (H or V)	Field Strength (V/m)	Required Criteria	Complied To Criteria (A,B,C)	Results
80-1000	0°	H	3	A	A	PASS
80-1000	0°	V	3	A	A	PASS
80-1000	90°	H	3	A	A	PASS
80-1000	90°	V	3	A	A	PASS
80-1000	180°	H	3	A	A	PASS
80-1000	180°	V	3	A	A	PASS
80-1000	270°	H	3	A	A	PASS
80-1000	270°	V	3	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - There was no observable degradation in performance.
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ V/m at frequency \_\_\_\_\_MHz.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Radiated susceptibility		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/11	Test Site	Chamber5

Frequency (MHz)	Position (Angle)	Polarity (H or V)	Field Strength (V/m)	Required Criteria	Complied To Criteria (A,B,C)	Results
80-1000	0°	H	3	A	A	PASS
80-1000	0°	V	3	A	A	PASS
80-1000	90°	H	3	A	A	PASS
80-1000	90°	V	3	A	A	PASS
80-1000	180°	H	3	A	A	PASS
80-1000	180°	V	3	A	A	PASS
80-1000	270°	H	3	A	A	PASS
80-1000	270°	V	3	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - There was no observable degradation in performance.
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ V/m at frequency \_\_\_\_\_MHz.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Radiated susceptibility		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/11	Test Site	Chamber5

Frequency (MHz)	Position (Angle)	Polarity (H or V)	Field Strength (V/m)	Required Criteria	Complied To Criteria (A,B,C)	Results
80-1000	0°	H	3	A	A	PASS
80-1000	0°	V	3	A	A	PASS
80-1000	90°	H	3	A	A	PASS
80-1000	90°	V	3	A	A	PASS
80-1000	180°	H	3	A	A	PASS
80-1000	180°	V	3	A	A	PASS
80-1000	270°	H	3	A	A	PASS
80-1000	270°	V	3	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - There was no observable degradation in performance.
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ V/m at frequency \_\_\_\_\_MHz.
- No false alarms or other malfunctions were observed during or after the test.



### 6.7. Test Photograph

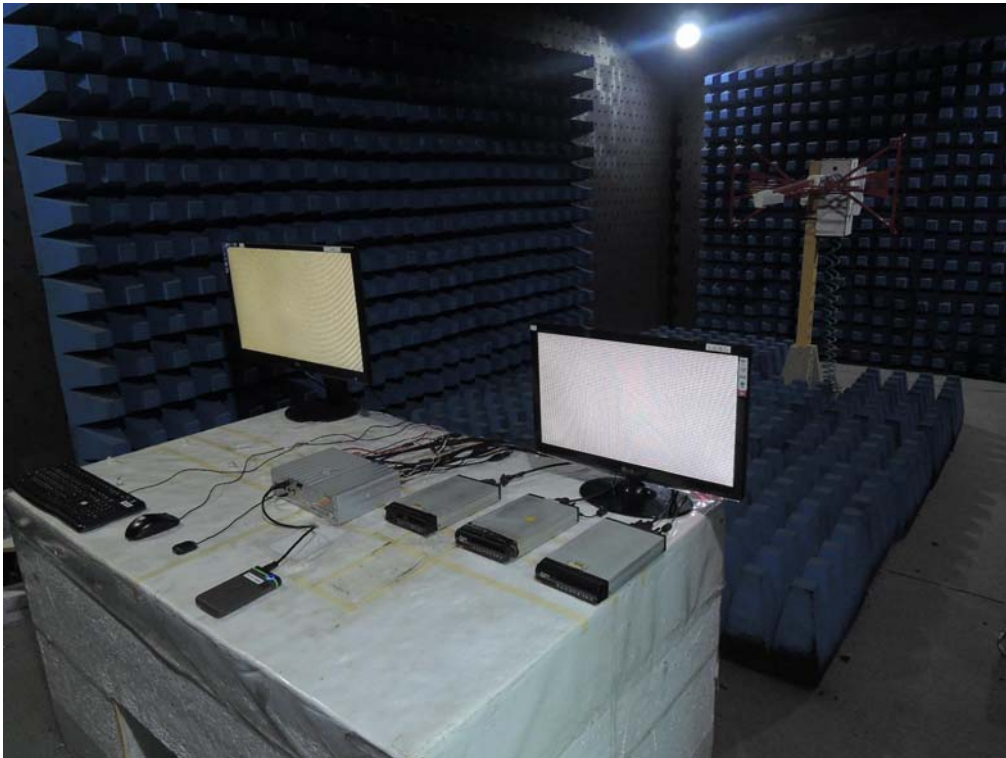
Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Radiated Susceptibility Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V

Description : Radiated Susceptibility Test Setup



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Radiated Susceptibility Test Setup

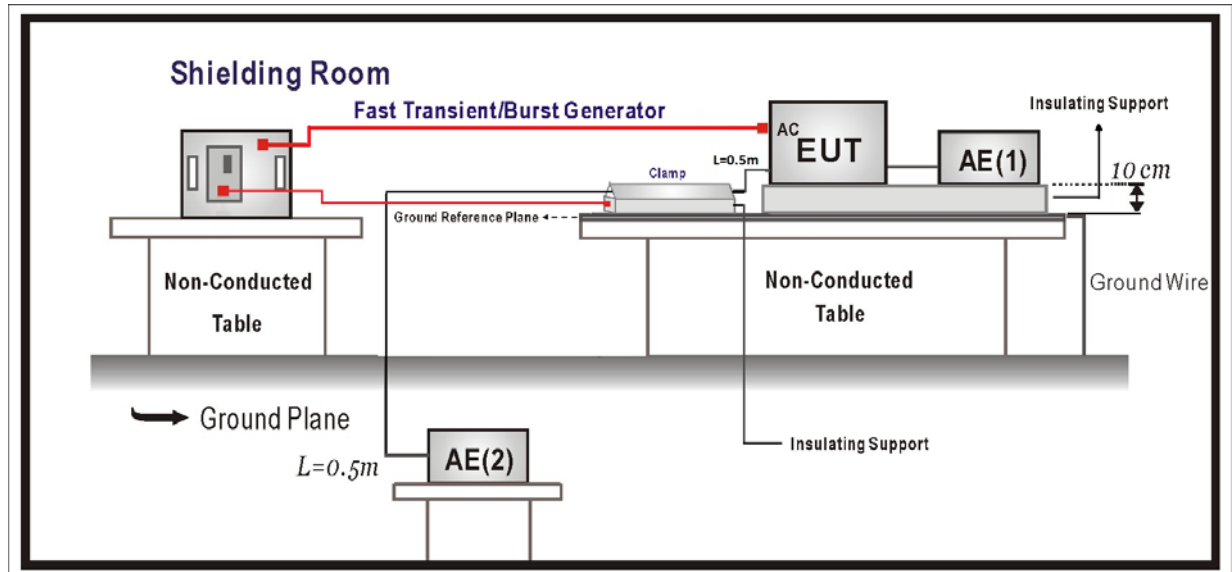


## 7. Electrical Fast Transient/Burst

### 7.1. Test Specification

According to Standard : IEC 61000-4-4

### 7.2. Test Setup



### 7.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
I/O and communication ports				
	Fast Transients Common Mode	kV (Peak) Tr/Th ns Rep. Frequency kHz	+0.5 5/50 5	B
Input DC Power Ports				
	Fast Transients Common Mode	kV (Peak) Tr/Th ns Rep. Frequency kHz	+0.5 5/50 5	B
Input AC Power Ports				
	Fast Transients Common Mode	kV (Peak) Tr/Th ns Rep. Frequency kHz	+1 5/50 5	B

## 7.4. Test Procedure

The EUT is placed on a table that is 0.8 meter height. A ground reference plane is placed on the table, and uses a 0.1m insulation between the EUT and ground reference plane.

The minimum area of the ground reference plane is 1m\*1m, and 0.65mm thick min, and projected beyond the EUT by at least 0.1m on all sides.

Test on I/O and communication ports:

The EFT interference signal is through a coupling clamp device couples to the signal and control lines of the EUT with burst noise for 1 minute.

Test on power supply ports:

The EUT is connected to the power mains through a coupling device that directly couples the EFT/B interference signal.

Each of the Line and Neutral conductors is impressed with burst noise for 1 minute.

The length of the signal and power lines between the coupling device and the EUT is 0.5m.

## 7.5. Deviation from Test Standard

No deviation.

**7.6. Test Result**

Product	IPC		
Test Item	Electrical fast transient/burst		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/14	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Inject Time (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
L	±	0.5kV	60	Direct	B	A	PASS
N	±	0.5kV	60	Direct	B	A	PASS
PE	±	0.5kV	60	Direct	B	A	PASS
L-N-PE	±	0.5kV	60	Direct	B	A	PASS
LAN	±	0.5kV	60	Clamp	B	A	PASS
GPS	±	0.5kV	60	Clamp	B	A	PASS

**Note:**

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Electrical fast transient/burst		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/14	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Inject Time (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
L	±	0.5kV	60	Direct	B	A	PASS
N	±	0.5kV	60	Direct	B	A	PASS
PE	±	0.5kV	60	Direct	B	A	PASS
L-N-PE	±	0.5kV	60	Direct	B	A	PASS
LAN	±	0.5kV	60	Clamp	B	A	PASS
GPS	±	0.5kV	60	Clamp	B	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Electrical fast transient/burst		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/14	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Inject Time (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
L	±	0.5kV	60	Direct	B	A	PASS
N	±	0.5kV	60	Direct	B	A	PASS
PE	±	0.5kV	60	Direct	B	A	PASS
L-N-PE	±	0.5kV	60	Direct	B	A	PASS
LAN	±	0.5kV	60	Clamp	B	A	PASS
GPS	±	0.5kV	60	Clamp	B	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.



### 7.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : EFT/B Test Setup



Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : EFT/B Test Setup - Clamp





Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : EFT/B Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : EFT/B Test Setup - Clamp



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : EFT/B Test Setup



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : EFT/B Test Setup - Clamp

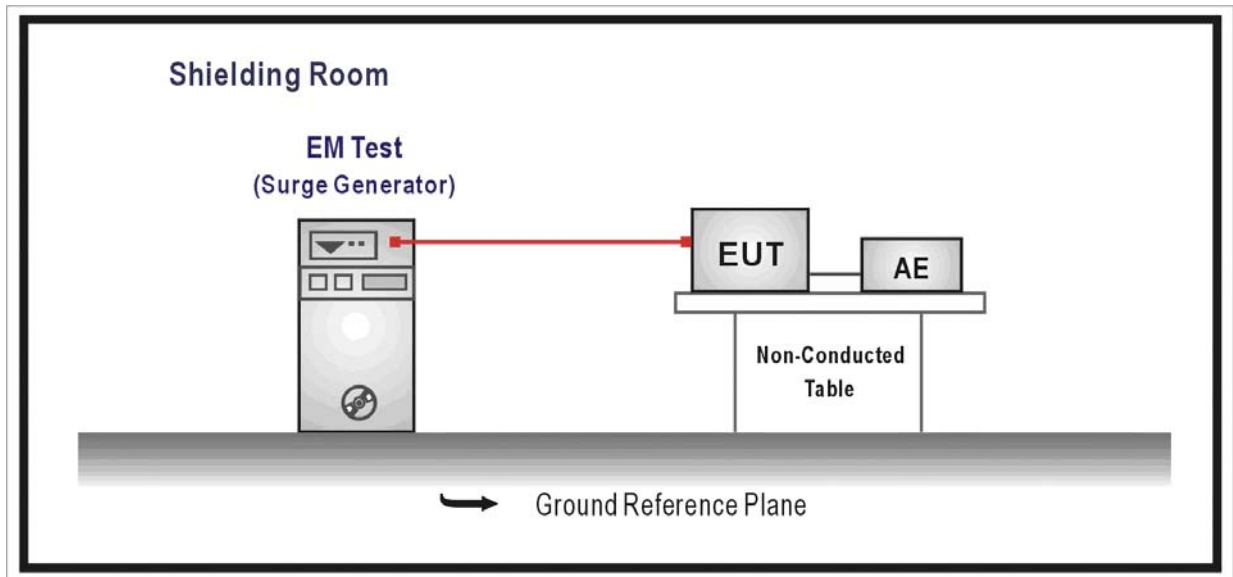


## 8. Surge

### 8.1. Test Specification

According to Standard : IEC 61000-4-5

### 8.2. Test Setup



### 8.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
Signal Ports and Telecommunication Ports(See 1) and 2) )				
	Surges Line to Ground	Tr/Th us kV	10/700 ± 1	C
Input DC Power Ports				
	Surges Line to Ground	Tr/Th us kV	1.2/50 (8/20) ± 0.5	B
AC Input and AC Output Power Ports				
	Surges Line to Line Line to Ground	Tr/Th us kV kV	1.2/50 (8/20) ± 1 ± 2	B

Notes:

- 1) Applicable only to ports which according to the manufacturer's specification may connect directly to outdoor cables.
- 2) Where the coupling network for the 10/700  $\mu$ s waveform affects the functioning of high speed data ports, the test shall be carried out using a 1,2/50 (8/20)  $\mu$ s waveform and appropriate coupling network.

#### **8.4. Test Procedure**

The EUT and its load are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min. And projected beyond the EUT by at least 0.1m on all sides. The length of power cord between the coupling device and the EUT shall be 2m or less.

For Input and Output AC Power or DC Input and DC Output Power Ports:

The EUT is connected to the power mains through a coupling device that directly couples the Surge interference signal.

The surge noise shall be applied synchronized to the voltage phase at 0<sup>0</sup>, 90<sup>0</sup>, 180<sup>0</sup>, 270<sup>0</sup> and the peak value of the a.c. voltage wave. (Positive and negative)

Each of Line-Earth and Line-Line is impressed with a sequence of five surge voltages with interval of 1 min.

#### **8.5. Deviation from Test Standard**

No deviation.

**8.6. Test Result**

Product	IPC		
Test Item	Surge		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/22	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Angle	Time Interval (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
Line to Ground	±	0.5kV	--	60	Direct	B	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Surge		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/22	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Angle	Time Interval (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
Line to Ground	±	0.5kV	--	60	Direct	B	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.

Product	IPC		
Test Item	Surge		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/22	Test Site	No.3 Shielded Room

Inject Line	Polarity	Voltage kV	Angle	Time Interval (Second)	Inject Method	Required Criteria	Complied to Criteria	Result
Line to Ground	±	0.5kV	--	60	Direct	B	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test.



### 8.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : SURGE Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V

Description : SURGE Test Setup





Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : SURGE Test Setup



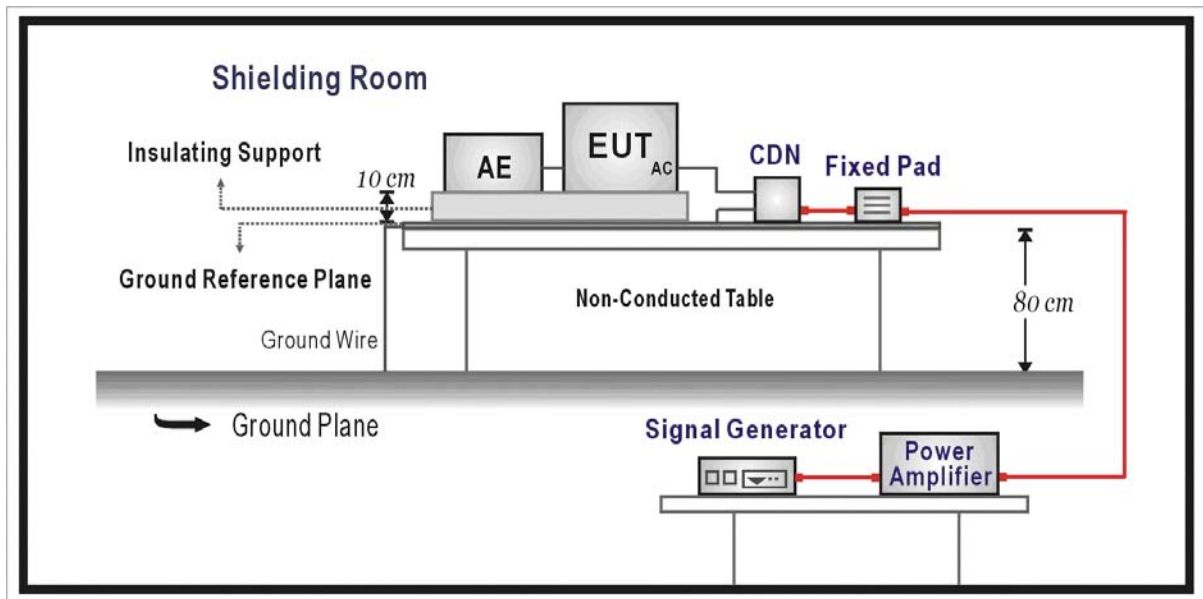
## 9. Conducted Susceptibility

### 9.1. Test Specification

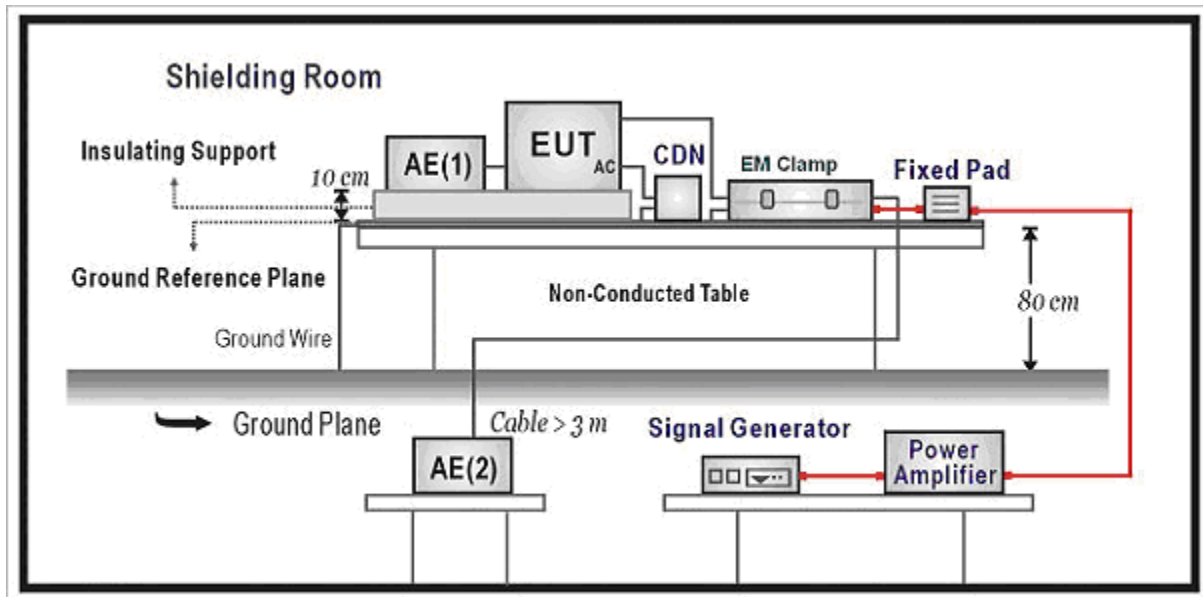
According to Standard : IEC 61000-4-6

### 9.2. Test Setup

CDN Inject Method



EM Clamp Inject Method



### 9.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
<b>Signal Ports and Telecommunication Ports</b>				
	Radio-Frequency Continuous Conducted	MHz V (rms, Un-modulated) % AM (1kHz)	0.15-80 3 80	A
<b>Input DC Power Ports</b>				
	Radio-Frequency Continuous Conducted	MHz V (rms, Un-modulated) % AM (1kHz)	0.15-80 3 80	A
<b>Input AC Power Ports</b>				
	Radio-Frequency Continuous Conducted	MHz V (rms, Un-modulated) % AM (1kHz)	0.15-80 3 80	A

### 9.4. Test Procedure

The EUT are placed on a table that is 0.8 meter height, and a Ground reference plane on the table, EUT are placed upon table and use a 10cm insulation between the EUT and Ground reference plane.

For Signal Ports and Telecommunication Ports

The disturbance signal is through a coupling and decoupling networks (CDN) or EM-clamp device couples to the signal and Telecommunication lines of the EUT.

For Input DC and AC Power Ports

The EUT is connected to the power mains through a coupling and decoupling networks for power supply lines. And directly couples the disturbances signal into EUT.

Used CDN-M2 for two wires or CDN-M3 for three wires.

All the scanning conditions are as follows:

Condition of Test	Remarks
1. Field Strength	130dBuV(3V) Level 2
2. Radiated Signal	AM 80% Modulated with 1kHz
3. Scanning Frequency	0.15MHz – 80MHz
4. Dwell Time	3 Seconds
5. Frequency step size $\Delta f$ :	1%
6. The rate of Swept of Frequency	$1.5 \times 10^{-3}$ decades/s

### 9.5. Deviation from Test Standard

No deviation.

**9.6. Test Result**

Product	IPC		
Test Item	Conducted susceptibility		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Frequency Range (MHz)	Voltage Applied dBuV(V)	Inject Method	Tested Port of EUT	Required Criteria	Performance Criteria Complied To	Result
0.15~80	130 (3V)	CDN	DC IN	A	A	PASS
0.15~80	130 (3V)	CDN	LAN	A	A	PASS
0.15~80	130 (3V)	Clamp	GPS	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ dBuV(V) at frequency \_\_\_\_\_MHz.
  - No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

Product	IPC		
Test Item	Conducted susceptibility		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Frequency Range (MHz)	Voltage Applied dBuV(V)	Inject Method	Tested Port of EUT	Required Criteria	Performance Criteria Complied To	Result
0.15~80	130 (3V)	CDN	DC IN	A	A	PASS
0.15~80	130 (3V)	CDN	LAN	A	A	PASS
0.15~80	130 (3V)	Clamp	GPS	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ dBuV(V) at frequency \_\_\_\_\_MHz.
  - No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

Product	IPC		
Test Item	Conducted susceptibility		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/11	Test Site	No.6 Shielded Room

Frequency Range (MHz)	Voltage Applied dBuV(V)	Inject Method	Tested Port of EUT	Required Criteria	Performance Criteria Complied To	Result
0.15~80	130 (3V)	CDN	DC IN	A	A	PASS
0.15~80	130 (3V)	CDN	LAN	A	A	PASS
0.15~80	130 (3V)	Clamp	GPS	A	A	PASS

Note:

The testing performed is from lowest level up to the highest level as required by standard, but only highest level is shown on the report.

- Meet criteria A : Operate as intended during and after the test
- Meet criteria B : Operate as intended after the test
- Meet criteria C : Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ dBuV(V) at frequency \_\_\_\_\_MHz.
  - No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

### 9.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Conducted Susceptibility Test Setup



Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Conducted Susceptibility Test Setup - CDN



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : Conducted Susceptibility Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V  
Description : Conducted Susceptibility Test Setup - CDN





Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Conducted Susceptibility Test Setup



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Conducted Susceptibility Test Setup - CDN

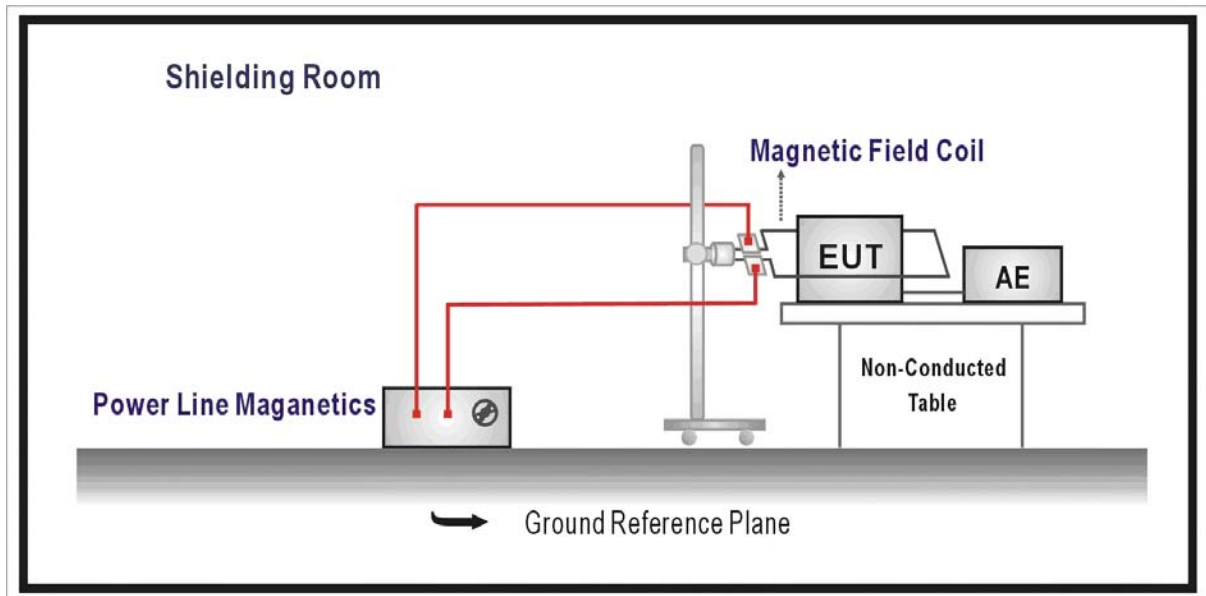


## 10. Power Frequency Magnetic Field

### 10.1. Test Specification

According to Standard : IEC 61000-4-8

### 10.2. Test Setup



### 10.3. Limit

Item	Environmental Phenomena	Units	Test Specification	Performance Criteria
Enclosure Port				
	Power-Frequency Magnetic Field	Hz A/m (r.m.s.)	50 1	A

### 10.4. Test Procedure

The EUT and its load are placed on a table which is 0.8 meter above a metal ground plane measured at least 1m\*1m min. The test magnetic field shall be placed at central of the induction coil.

The test magnetic Field shall be applied 10 minutes by the immersion method to the EUT. And the induction coil shall be rotated by 90° in order to expose the EUT to the test field with different orientation (X, Y, Z Orientations).

### 10.5. Deviation from Test Standard

No deviation.

**10.6. Test Result**

Product	IPC		
Test Item	Power frequency magnetic field		
Test Mode	Mode 1: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 24V		
Date of Test	2015/09/11	Test Site	No.3 Shielded Room

Polarization	Frequency (Hz)	Inject Time(s)	Magnetic Strength (A/m)	Required Performance Criteria	Performance Criteria Complied To	Test Result
X Orientation	50	60	1	A	A	PASS
Y Orientation	50	60	1	A	A	PASS
Z Orientation	50	60	1	A	A	PASS

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

Product	IPC		
Test Item	Power frequency magnetic field		
Test Mode	Mode 2: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 36V		
Date of Test	2015/09/11	Test Site	No.3 Shielded Room

Polarization	Frequency (Hz)	Inject Time(s)	Magnetic Strength (A/m)	Required Performance Criteria	Performance Criteria Complied To	Test Result
X Orientation	50	60	1	A	A	PASS
Y Orientation	50	60	1	A	A	PASS
Z Orientation	50	60	1	A	A	PASS

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

Product	IPC		
Test Item	Power frequency magnetic field		
Test Mode	Mode 3: Intel E3845 1.91GHz, DP 2560*1440/60Hz Extend D-SUB 1920*1200/60Hz, DC 110V		
Date of Test	2015/09/11	Test Site	No.3 Shielded Room

Polarization	Frequency (Hz)	Inject Time(s)	Magnetic Strength (A/m)	Required Performance Criteria	Performance Criteria Complied To	Test Result
X Orientation	50	60	1	A	A	PASS
Y Orientation	50	60	1	A	A	PASS
Z Orientation	50	60	1	A	A	PASS

- Meet criteria A: Operate as intended during and after the test
- Meet criteria B: Operate as intended after the test
- Meet criteria C: Loss/Error of function
- Additional Information
  - EUT stopped operation and could / could not be reset by operator at \_\_\_\_\_ kV of Line \_\_\_\_\_.
- No false alarms or other malfunctions were observed during or after the test. The acceptance criteria were met, and the EUT passed the test.

### 10.7. Test Photograph

Test Mode : Mode 1: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 24V

Description : Power Frequency Magnetic Field Test Setup



Test Mode : Mode 2: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 36V

Description : Power Frequency Magnetic Field Test Setup



Test Mode : Mode 3: Intel E3845 1.91GHz, DP 2560\*1440/60Hz Extend D-SUB 1920\*1200/60Hz, DC 110V  
Description : Power Frequency Magnetic Field Test Setup





**11. Attachment**

➤ **EUT Photograph**

(1) EUT Photo



(2) EUT Photo





(3) EUT Photo



(4) EUT Photo





(5) EUT Photo



(6) EUT Photo





(7) EUT Photo



(8) EUT Photo

