

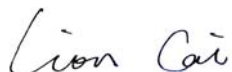
Test Report of FCC CFR 47 Part 15 Subpart B

On Behalf of


Hena Digital Technology (Shenzhen) Co., Ltd.

FCC ID: M7CMID012
Product Description: MID
Model No.: MID1506CM
Supplementary Model: MID1506CP;MID1506CE;MID1506CG;MID15**CM;MID15**CP;
MID15**CE;MID15**CG;MID1506CM#;MID1506CP#;MID1506CE#;
MID1506CG#;MID15**CM#; MID15**CP#; MID15**CE#;
MID15**CG#;LT1041;("****" can be 01-99; "#" can be A-Z);
Brand Name: HENA; KLU
Prepared for: Hena Digital Technology (Shenzhen) Co., Ltd.
3F, South Tower, Jiuzhou Electric building, Southern No., 12Rd.,
High-tech Industrial Park, Nanshan District, Shenzhen, China
Prepared by: Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.
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Report No.: BCT13BR-0191E-1
Issue Date: March 4, 2013
Test Date: February 20~March 4, 2013

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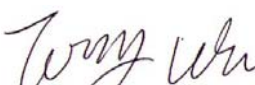

Tony Wu

TABLE OF CONTENTS

- 1. GENERAL INFORMATION..... 3**
 - 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)..... 3
 - 1.2 TEST STANDARDS 4
 - 1.3 TEST FACILITY 4
- 2. SYSTEM TEST CONFIGURATION 5**
 - 2.1 EUT CONFIGURATION 5
 - 2.2 SUPPORT EQUIPMENTS 5
 - 2.3 GENERAL TEST PROCEDURES 5
 - 2.4 MEASUREMENT UNCERTAINTY 5
 - 2.5 LIST OF MEASURING EQUIPMENTS USED 6
- 3. SUMMARY OF TEST RESULTS..... 7**
- 4. TEST OF AC POWER LINE CONDUCTED EMISSION 8**
 - 4.1 LIMIT OF AC POWER LINE CONDUCTED EMISSION 8
 - 4.2 EUT SETUP 8
 - 4.3 INSTRUMENT SETUP 9
 - 4.4 TEST PROCEDURE 9
 - 4.5 TEST RESULT 9
- 5 - RADIATED DISTURBANCES 16**
 - 5.1 LIMIT OF RADIATED DISTURBANCES 16
 - 5.2 EUT SETUP 16
 - 5.3 TEST RECEIVER SETUP 17
 - 5.4 TEST PROCEDURE 17
 - 5.5 CORRECTED AMPLITUDE & MARGIN CALCULATION 17
 - 5.6 RADIATED EMISSIONS TEST RESULT 17

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Hena Digital Technology (Shenzhen) Co., Ltd.
Address of Applicant:	3F, South Tower, Jiuzhou Electric building, Southern No., 12Rd., High-tech Industrial Park, Nanshan District, Shenzhen, China
Manufacturer:	Hena Digital Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	3F, South Tower, Jiuzhou Electric building, Southern No., 12Rd., High-tech Industrial Park, Nanshan District, Shenzhen, China

General Description of E.U.T

Items	Description
EUT Description:	MID
Trade Name:	HENA; KLU
Model No.:	MID1506CM
Supplementary Model:	MID1506CP;MID1506CE;MID1506CG;MID15**CM; MID15**CP; MID15**CE;MID15**CG; MID1506CM#; MID1506CP#;MID1506CE#; MID1506CG#;MID15**CM#; MID15**CP#; MID15**CE#; MID15**CG#;LT1041;("***"can be 01-99; "#"can be A-Z);
Frequency Band:	IEEE 802.11b/g, IEEE 802.11n HT20 (ISM Band) : 2412MHz~2462MHz, IEEE 802.11n HT40 (ISM Band) : 2422MHz~2452MHz
Channel Spacing:	IEEE 802.11b/g, 802.11n HT20/HT40: 5MHz
Number of Channels:	IEEE 802.11b/g, 802.11n HT20:11 Channels IEEE 802.11n HT40 :7 Channels
Transmit Data Rate:	maximum of 150Mbps
Type of Modulation:	IEEE 802.11b:DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g:OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20/40:OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	Built-in Antenna
Antenna Gain:	2dBi
Power Supply:	AC/DC Adapter and build-in battery with DC3.7V 4800mAh
Adapter Information:	Model:K15S050200U Input:AC100-240V 50/60Hz 0.5A Output: DC5V 2000mA

* The test data gathered are from the production sample provided by the manufacturer.

* Supplementary models have the same circuit, but with different appearance.

1.2 Test Standards

The report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B. The objective of the manufacturer is to demonstrate compliance with the described above standards.

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

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

FCC – Registration No.: 338263

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 03, 2011.

IC Registration No.: 7631A

The 3m alternate test site of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 25, 2011.

CNAS - Registration No.: L3923

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March 22, 2012.

TUV - Registration No.: UA 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-003.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 Support Equipments

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

Support equipments or special accessories in test configuration:

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Host Computer	Dell	78MD82X	CE, FCC	1.5m Unshielded Power Cord
Monitor	Dell	E178Pc	CE, FCC	1.5m Unshielded Power Cord 1.8m shielded data Cable with core
Keyboard	Dell	L100	CE, FCC	1.8m shielded data Cable with core
Mouse	Dell	OCJ339	CE, FCC	1.8m shielded data Cable with core
Printer	EPSON	P330A	CE, FCC	1.2m Unshielded Power Cord 1.5m shielded data Cable
LCD COLOUR TV	SHARP	LCD-32Z330A	CE, FCC	1.2m Unshielded Power Cord 1.5m shielded data Cable with core

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 List of Measuring Equipments Used

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	EMI Test Receiver	R&S	ESCI	100687	2012-4-6	2013-4-5
2	EMI Test Receiver	R&S	ESPI	100097	2012-7-25	2013-7-24
3	Amplifier	HP	8447D	1937A02492	2012-4-6	2013-4-5
4	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07101	2012-4-6	2013-4-5
5	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07102	2012-4-6	2013-4-5
6	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
7	Signal generator	Rhode & Schwarz	SMIQ 03HD + option SM-B1, SMIQB11, SMIQB12, SMIQB14, SMIQB17, SMIQB20	1125.5555.46	2012-4-6	2013-4-5
8	GSM system simulator	Rhode & Schwarz	CMU200 + option K20, K21, K22, K23, K24, K27, K28, K29, K42, K65, B12, B41, B52, B66, B56	1100.0008.34	2012-4-6	2013-4-5
9	GSM system simulator	Agilent	8960 Series 10 E1985A + GSM_AMPS	B.01.76 GB42450443	2012-4-6	2013-4-5
10	Spectrum Analyzer	Agilent	E4404B	US41192833	2012-4-6	2013-4-5
11	6dB Attenuator	Atten	Attenuator	DC-4GHz	2012-4-6	2013-4-5
12	Digital Multimeter	Fluke	15B	91280239	2012-4-6	2013-4-5
13	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2012-4-10	2013-4-9
14	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2012-11-27	2013-11-26
15	Active Loop Antenna	DAZE	ZN30900A	1200	2012-4-6	2013-4-6
16	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99-457-8730	112260/042	2012-4-6	2013-4-5
17	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2012-4-6	2013-4-5
18	Spectrum Analyzer	R&S	FSP	100397	2012-11-2	2013-11-1
19	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2012-4-6	2013-4-5
20	Temperature & Humidity Chamber	TOPSTAT	TOS-831A	3438A05208	2012-4-6	2013-4-5

3. SUMMARY OF TEST RESULTS

Standard	Test Items	Result
FCC Part 15 Subpart B	Conduction Emission, 0.15MHz to 30MHz	Pass
FCC Part 15 Subpart B	Radiation Emission, 30MHz to 1000MHz	Pass

4. TEST OF AC POWER LINE CONDUCTED EMISSION

4.1 Limit of AC Power Line Conducted Emission

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 EUT Setup

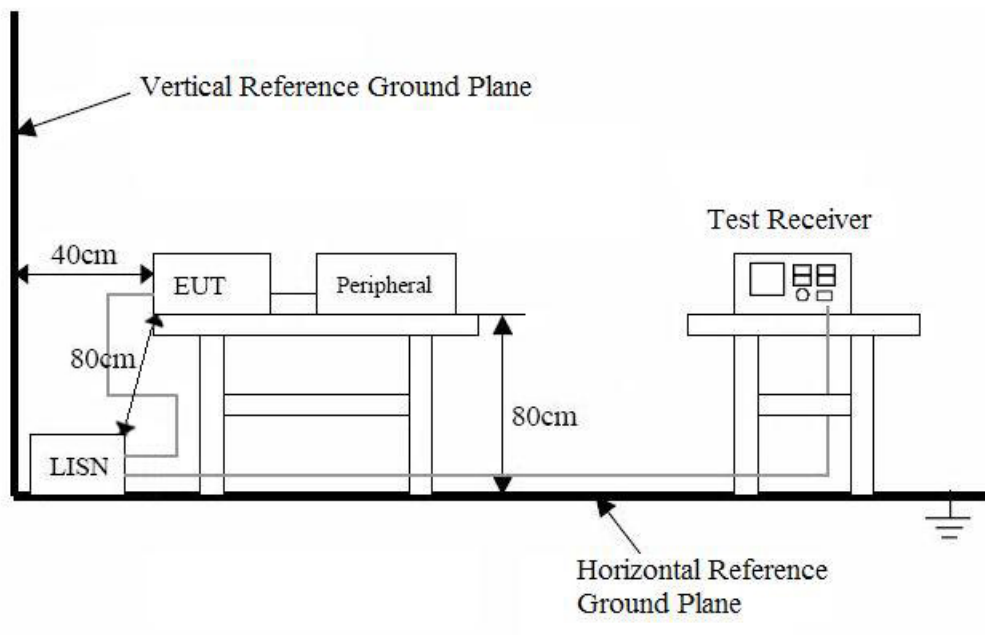
The setup of EUT is according with ANSI C63.4-2009 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



Remark: The EUT was connected to a 120VAC/ 60Hz power source.

4.3 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range.....150 KHz to 30 MHz
Detector.....Peak & Quasi-Peak & Average
Sweep Speed.....Auto
IF Band Width.....9 KHz

4.4 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB μ V of specification limits). Quasi-peak readings are distinguished with a "QP". Average readings are distinguished with a "AV".

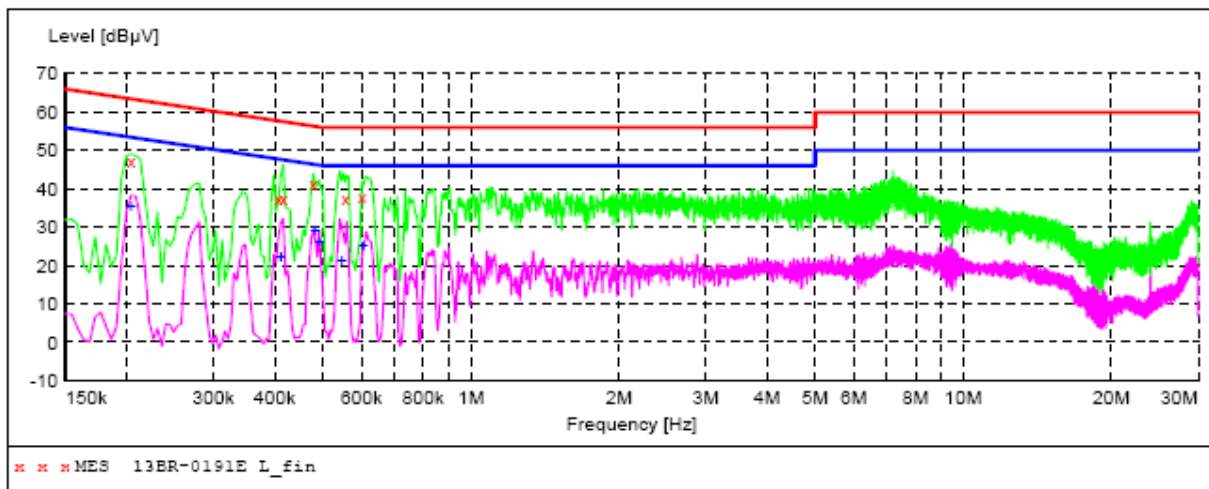
4.5 Test Result

Temperature (°C) : 22~23	EUT: MID
Humidity (%RH) : 50~54	M/N: MID1506CM
Barometric Pressure (mbar) : 950~1000	Operation Condition: Charging & Camera / Connect to PC / HDMI

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: Charging & Camera
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E L_fin"

2/20/2013 4:30PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.204000	47.00	10.8	63	16.4	QP	L1	GND
0.406500	37.40	10.4	58	20.3	QP	L1	GND
0.415500	37.40	10.4	58	20.1	QP	L1	GND
0.478500	41.30	10.3	56	15.1	QP	L1	GND
0.555000	37.40	10.2	56	18.6	QP	L1	GND
0.600000	38.00	10.2	56	18.0	QP	L1	GND

MEASUREMENT RESULT: "13BR-0191E L_fin2"

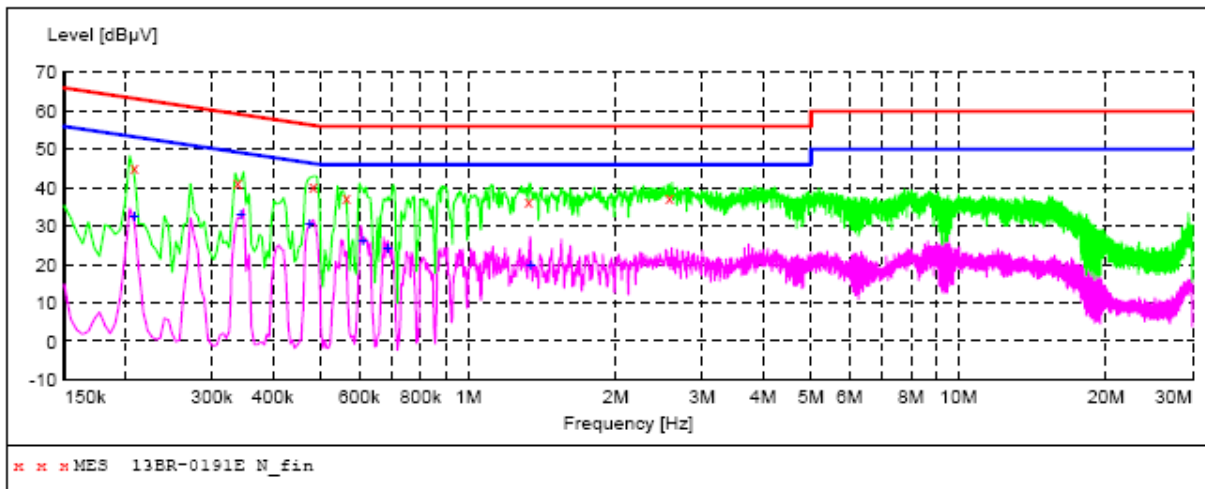
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.204000	35.50	10.8	53	17.9	AV	L1	GND
0.411000	22.30	10.4	48	25.3	AV	L1	GND
0.483000	28.90	10.3	46	17.4	AV	L1	GND
0.492000	26.20	10.3	46	19.9	AV	L1	GND
0.546000	21.10	10.2	46	24.9	AV	L1	GND
0.604500	25.30	10.2	46	20.7	AV	L1	GND

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: Charging & Camera
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E N_fin"

2/20/2013 4:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.208500	45.40	10.8	63	17.9	QP	N	GND
0.339000	41.50	10.5	59	17.7	QP	N	GND
0.483000	40.60	10.3	56	15.7	QP	N	GND
0.564000	37.60	10.2	56	18.4	QP	N	GND
1.329000	36.60	10.2	56	19.4	QP	N	GND
2.575500	37.20	10.2	56	18.8	QP	N	GND

MEASUREMENT RESULT: "13BR-0191E N_fin2"

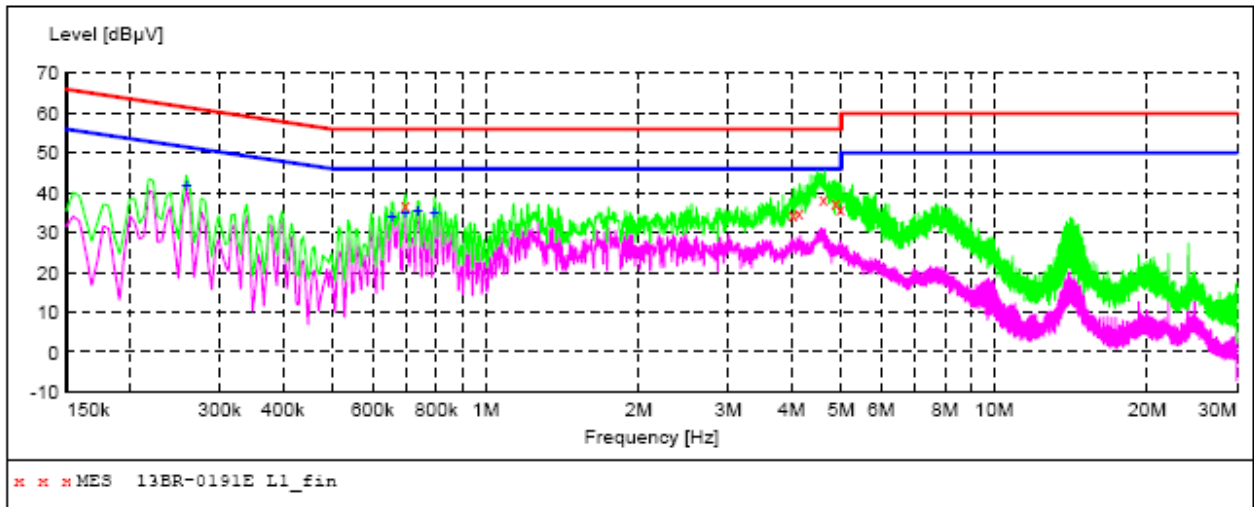
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.208500	32.60	10.8	53	20.7	AV	N	GND
0.343500	33.20	10.5	49	15.9	AV	N	GND
0.474000	30.50	10.3	46	15.9	AV	N	GND
0.609000	26.30	10.2	46	19.7	AV	N	GND
0.685500	24.10	10.2	46	21.9	AV	N	GND
1.342500	20.00	10.2	46	26.0	AV	N	GND

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: Connect to PC
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for PC
Comment: L Line

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E L1_fin"

2/20/2013 4:22PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.694500	37.10	10.2	56	18.9	QP	L1	GND
4.020000	34.30	10.3	56	21.7	QP	L1	GND
4.132500	34.90	10.3	56	21.1	QP	L1	GND
4.614000	38.40	10.3	56	17.6	QP	L1	GND
4.879500	37.20	10.4	56	18.8	QP	L1	GND
4.992000	35.80	10.4	56	20.2	QP	L1	GND

MEASUREMENT RESULT: "13BR-0191E L1_fin2"

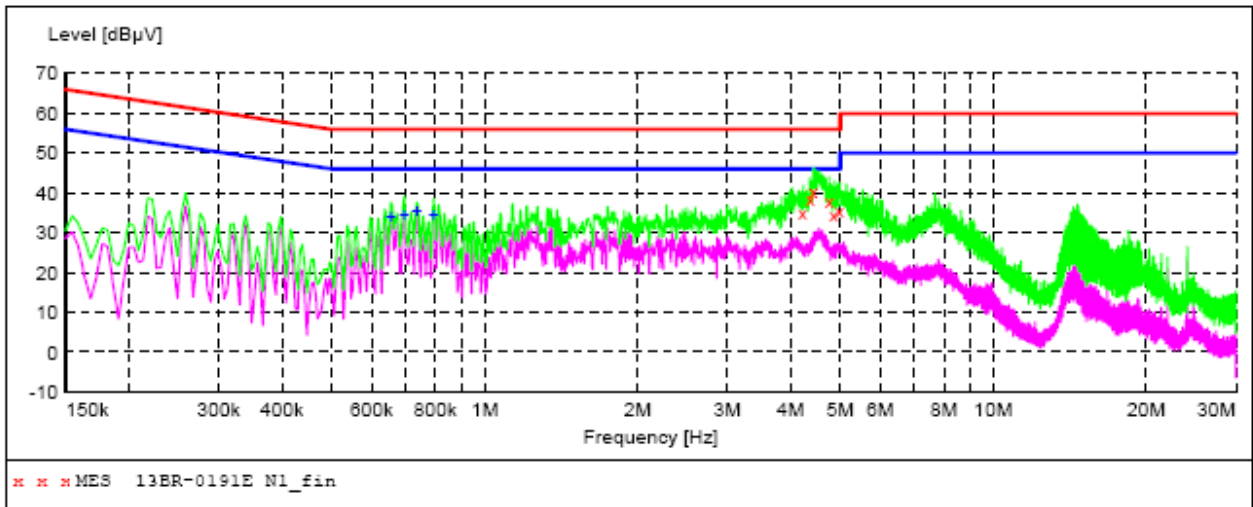
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.258000	41.70	10.7	52	9.8	AV	L1	GND
0.654000	34.10	10.2	46	11.9	AV	L1	GND
0.694500	34.80	10.2	46	11.2	AV	L1	GND
0.735000	35.70	10.2	46	10.3	AV	L1	GND
0.793500	35.10	10.2	46	10.9	AV	L1	GND

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: Connect to PC
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for PC
Comment: N Line

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E N1_fin"

2/20/2013 4:19PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
4.209000	34.90	10.3	56	21.1	QP	N	GND
4.362000	38.30	10.3	56	17.7	QP	N	GND
4.420500	40.30	10.3	56	15.7	QP	N	GND
4.753500	37.80	10.3	56	18.2	QP	N	GND
4.852500	34.50	10.4	56	21.5	QP	N	GND
4.983000	35.40	10.4	56	20.6	QP	N	GND

MEASUREMENT RESULT: "13BR-0191E N1_fin2"

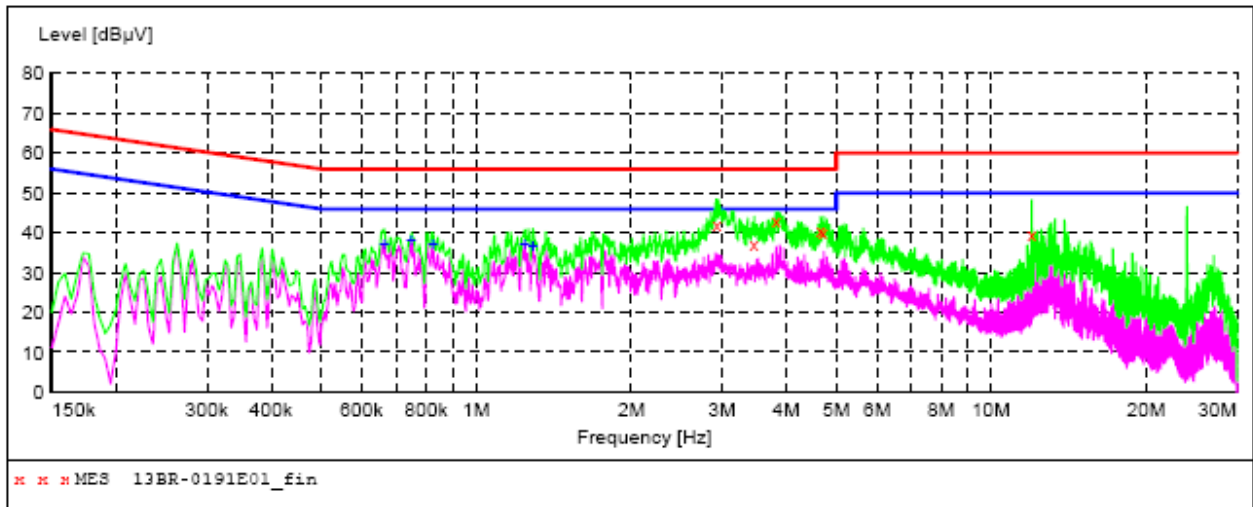
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.654000	33.90	10.2	46	12.1	AV	N	GND
0.694500	34.40	10.2	46	11.6	AV	N	GND
0.735000	35.20	10.2	46	10.8	AV	N	GND
0.793500	34.60	10.2	46	11.4	AV	N	GND

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: HDMI
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (9K-30M)FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E01_fin"

2/20/2013 4:40PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
2.935500	42.10	10.2	56	13.9	QP	L1	GND
3.466500	37.40	10.3	56	18.6	QP	L1	GND
3.826500	42.80	10.3	56	13.2	QP	L1	GND
4.668000	40.60	10.3	56	15.4	QP	L1	GND
4.717500	40.30	10.3	56	15.7	QP	L1	GND
11.998500	39.80	10.5	60	20.2	QP	L1	GND

MEASUREMENT RESULT: "13BR-0191E01_fin2"

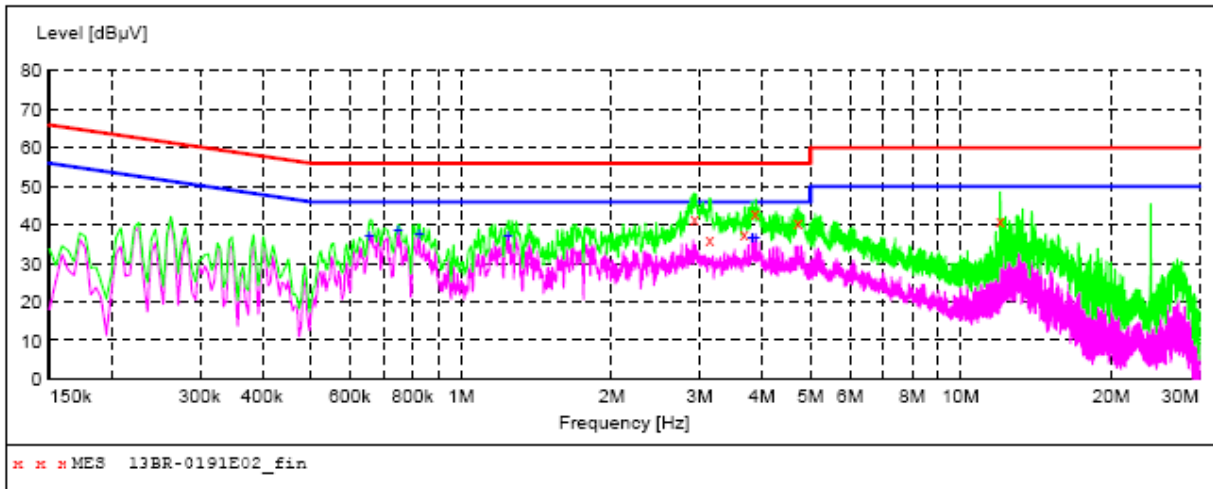
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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.663000	37.20	10.2	46	8.8	AV	L1	GND
0.748500	38.40	10.2	46	7.6	AV	L1	GND
0.825000	37.20	10.2	46	8.8	AV	L1	GND
1.243500	37.20	10.3	46	8.8	AV	L1	GND
1.288500	36.90	10.2	46	9.1	AV	L1	GND

Conducted Emission:

EUT: MID
M/N: MID1506CM
Operating Condition: HDMI
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "13BR-0191E02_fin"

2/20/2013 4:43PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
2.931000	41.60	10.2	56	14.4	QP	N	GND
3.142500	36.30	10.3	56	19.7	QP	N	GND
3.682500	37.70	10.3	56	18.3	QP	N	GND
3.880500	42.80	10.3	56	13.2	QP	N	GND
4.722000	40.60	10.3	56	15.4	QP	N	GND
11.998500	41.10	10.5	60	18.9	QP	N	GND

MEASUREMENT RESULT: "13BR-0191E02_fin2"

2/20/2013 4:43PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.654000	37.40	10.2	46	8.6	AV	N	GND
0.748500	38.80	10.2	46	7.2	AV	N	GND
0.825000	37.90	10.2	46	8.1	AV	N	GND
1.243500	37.40	10.3	46	8.6	AV	N	GND
3.822000	36.70	10.3	46	9.3	AV	N	GND
3.885000	36.90	10.3	46	9.1	AV	N	GND

5 - RADIATED DISTURBANCES

5.1 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

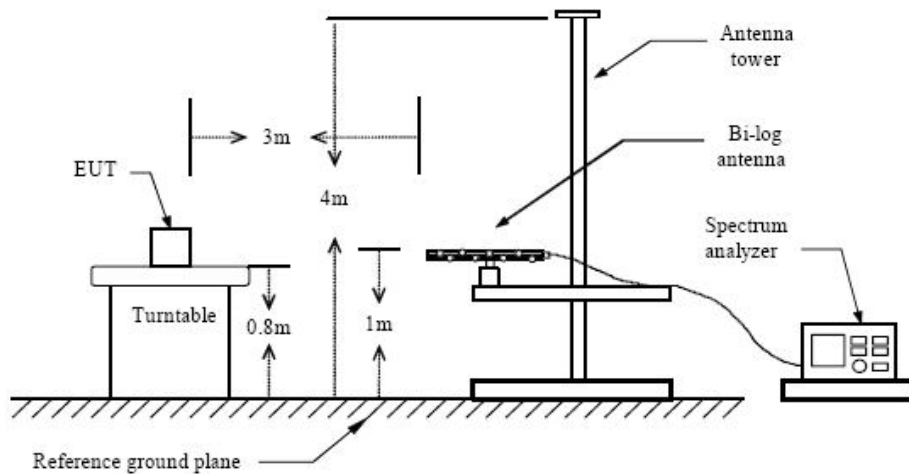
5.2 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

Below 1 GHz



5.3 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak
IF Band Width.....120KHz
Frequency Range.....30MHz to 1000MHz
Turntable Rotated.....0 to 360 degrees

Antenna Position:

Height.....1m to 4m
Polarity.....Horizontal and Vertical

5.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB μ V of specification limits), and are distinguished with a "QP" in the data table.

5.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Subpart B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

5.6 Radiated Emissions Test Result

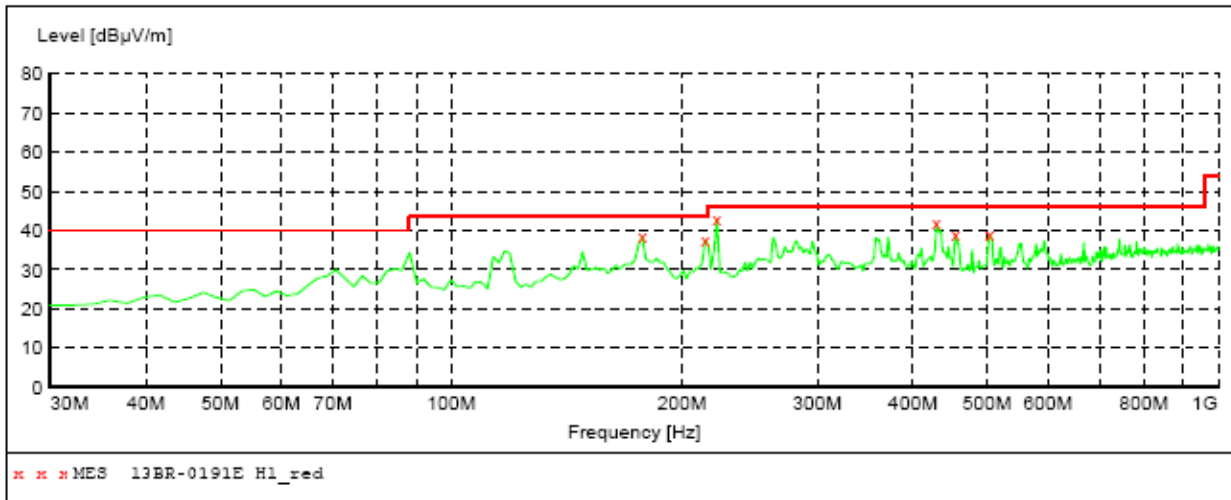
Temperature (°C) : 22~23	EUT: MID
Humidity (%RH) : 50~54	M/N: MID1506CM
Barometric Pressure (mbar) : 950~1000	Operation Condition: Charging & Camera / Connect to PC / HDMI

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13BR-0191E H1_red"

2/21/2013

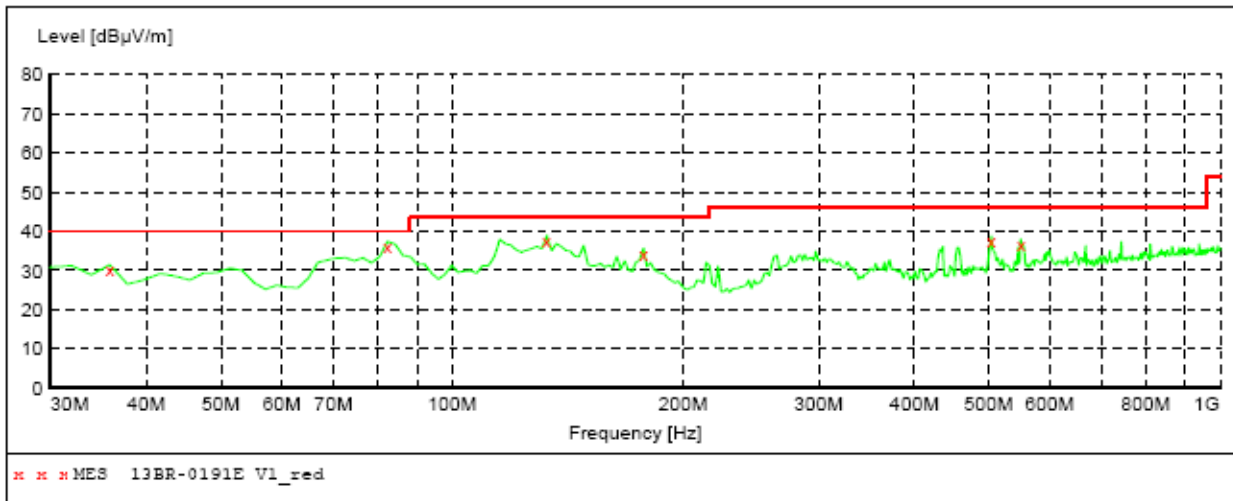
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
177.440000	38.50	13.7	43.5	5.0	QP	100.0	0.00	HORIZONTAL
214.300000	37.70	15.2	43.5	5.8	QP	300.0	0.00	HORIZONTAL
222.060000	43.00	15.5	46.0	3.0	QP	100.0	0.00	HORIZONTAL
429.640000	41.80	22.0	46.0	4.2	QP	100.0	0.00	HORIZONTAL
454.860000	39.00	22.2	46.0	7.0	QP	300.0	0.00	HORIZONTAL
503.360000	38.90	23.9	46.0	7.1	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: Charging & Camera
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13BR-0191E V1_red"

2/21/2013

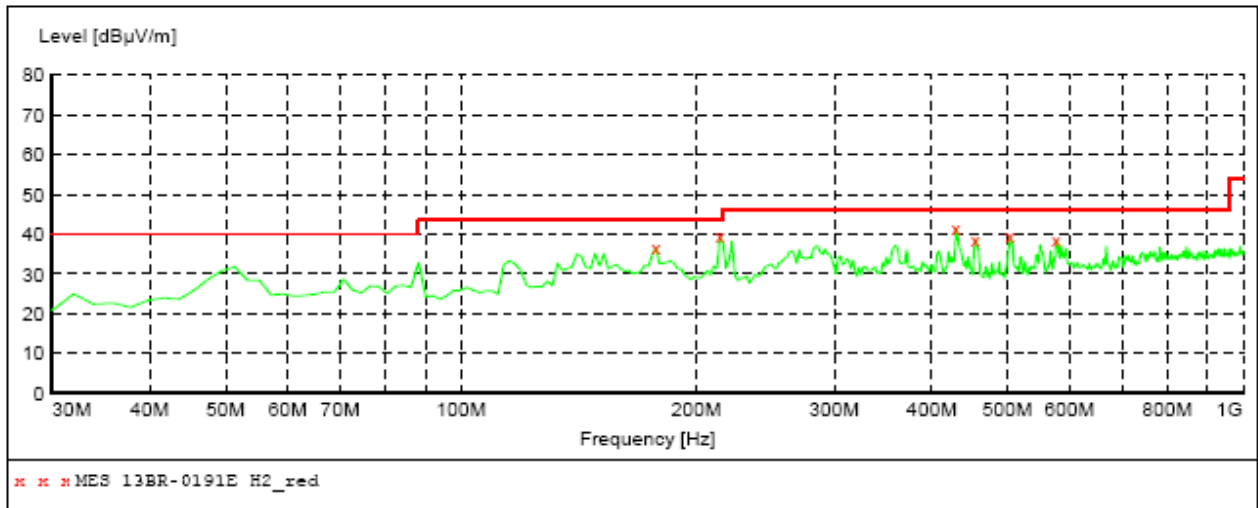
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
35.820000	31.50	14.7	40.0	8.5	QP	100.0	0.00	VERTICAL
82.380000	37.00	13.4	40.0	3.0	QP	100.0	0.00	VERTICAL
132.820000	39.00	12.8	43.5	4.5	QP	100.0	0.00	VERTICAL
177.440000	35.70	13.7	43.5	7.8	QP	100.0	0.00	VERTICAL
503.360000	38.70	23.9	46.0	7.3	QP	100.0	0.00	VERTICAL
549.920000	37.90	25.0	46.0	8.1	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: Connect to PC
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for PC
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start Frequency	Stop Frequency	Detector	Meas. Time	IF Bandw.		
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW	



MEASUREMENT RESULT: "13BR-0191E H2_red"

2/21/2013

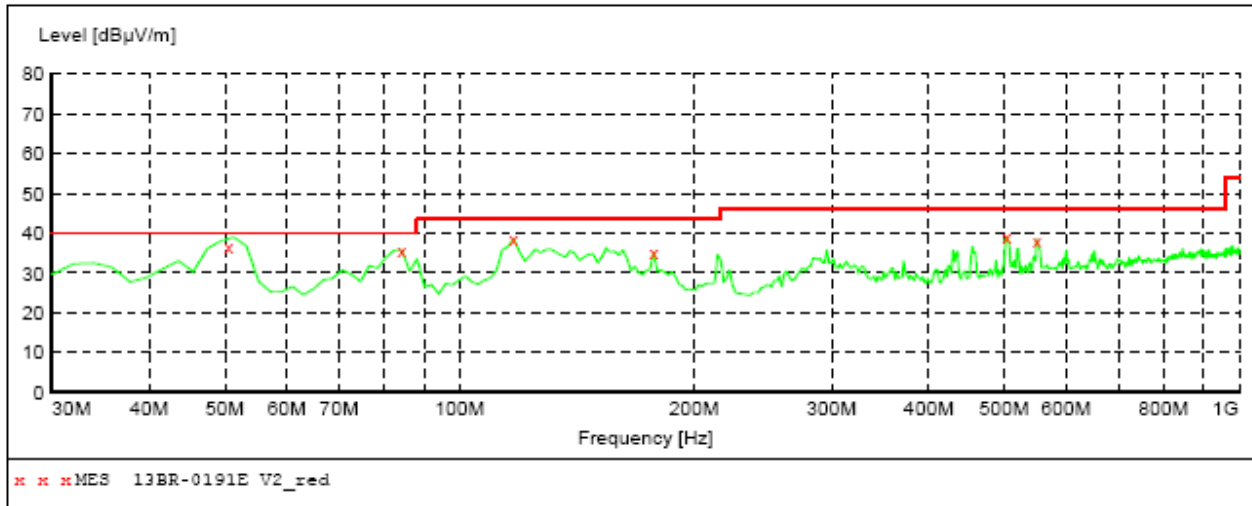
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
177.440000	36.80	13.7	43.5	6.7	QP	300.0	0.00	HORIZONTAL
214.300000	39.30	15.2	43.5	4.2	QP	100.0	0.00	HORIZONTAL
429.640000	41.60	22.0	46.0	4.4	QP	100.0	0.00	HORIZONTAL
454.860000	38.80	22.2	46.0	7.2	QP	300.0	0.00	HORIZONTAL
503.360000	39.50	23.9	46.0	6.5	QP	100.0	0.00	HORIZONTAL
577.080000	38.40	25.5	46.0	7.6	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: Connect to PC
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for PC
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13BR-0191E V2_red"

2/21/2013

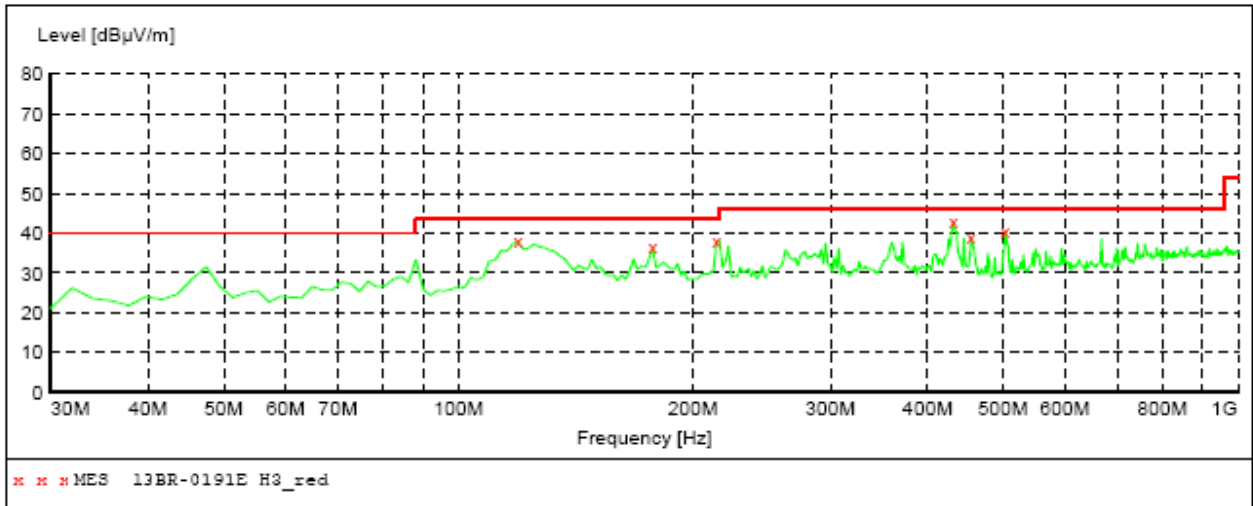
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	36.90	15.7	40.0	3.1	QP	100.0	0.00	VERTICAL
84.320000	35.70	14.1	40.0	4.3	QP	100.0	0.00	VERTICAL
117.300000	38.70	15.1	43.5	4.8	QP	100.0	0.00	VERTICAL
177.440000	35.30	13.7	43.5	8.2	QP	100.0	0.00	VERTICAL
503.360000	39.10	23.9	46.0	6.9	QP	100.0	0.00	VERTICAL
549.920000	38.30	25.0	46.0	7.7	QP	100.0	0.00	VERTICAL

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: HDMI
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13BR-0191E H3_red"

2/21/2013

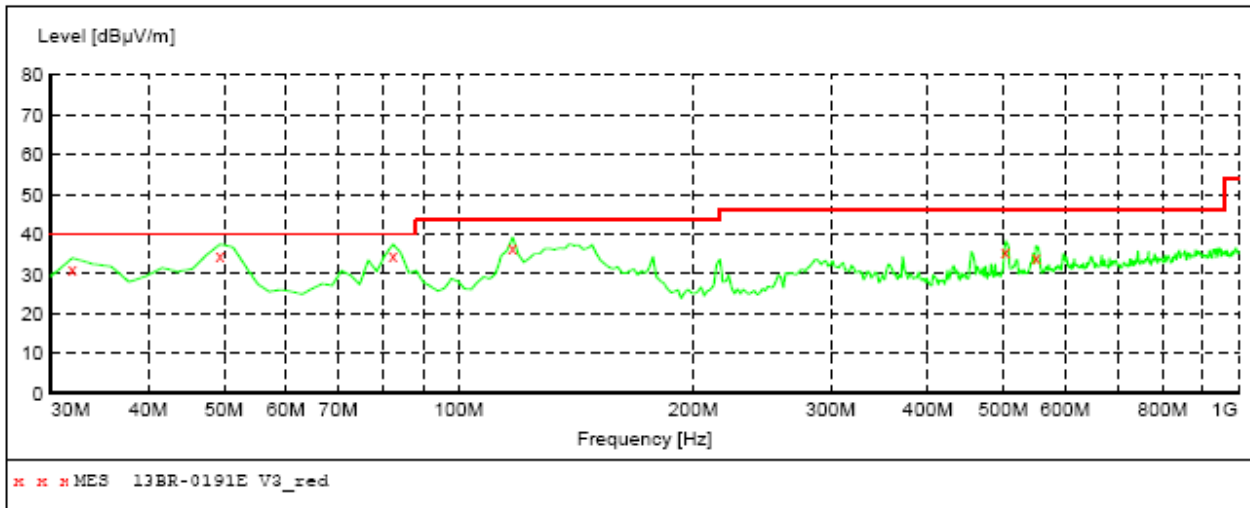
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
119.240000	38.00	14.8	43.5	5.5	QP	300.0	0.00	HORIZONTAL
177.440000	36.40	13.7	43.5	7.1	QP	100.0	0.00	HORIZONTAL
214.300000	38.00	15.2	43.5	5.5	QP	100.0	0.00	HORIZONTAL
431.580000	42.80	22.0	46.0	3.2	QP	300.0	0.00	HORIZONTAL
454.860000	38.90	22.2	46.0	7.1	QP	100.0	0.00	HORIZONTAL
503.360000	40.40	23.9	46.0	5.6	QP	100.0	0.00	HORIZONTAL

Radiated Emission Test Data:

EUT: MID
M/N: MID1506CM
Operating Condition: HDMI
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: AC 120V/60Hz for adapter
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13BR-0191E V3_red"

2/21/2013

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB		cm	deg	
31.940000	34.00	14.4	40.0	6.0	QP	100.0	0.00	VERTICAL
49.400000	36.50	15.8	40.0	3.5	QP	100.0	0.00	VERTICAL
82.380000	36.50	13.4	40.0	3.5	QP	100.0	0.00	VERTICAL
117.300000	39.30	15.1	43.5	4.2	QP	100.0	0.00	VERTICAL
503.360000	38.30	23.9	46.0	7.7	QP	100.0	0.00	VERTICAL
549.920000	36.90	25.0	46.0	9.1	QP	100.0	0.00	VERTICAL