



FCC TEST REPORT

On Behalf of

FCC ID: XMF-MID6901

Lightcomm Technology Co., Ltd.

MID

Model No.: MID6901-GA, X431 PRO MINI

Prepared for : Lightcomm Technology Co., Ltd.
RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS.
Address : 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW
TERRITORIES, HONGKONG

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15:2016 ANSI C63.4:2014	Class B	P
Radiated Emission Test	FCC Part 15:2016 ANSI C63.4:2014	Class B	P

Note: 1. P is an abbreviation for Pass.
2. F is an abbreviation for Fail.
3. N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	: MID
Model Number	: MID6901-GA, X431 PRO MINI There's no difference between the models except the appearance color
Diff	: and model name, so all the test were performed on the model MID6901-GA
Trademark	: N/A
Adapter	: Model:TEKA012-0502000UK Input: AC 100-240V, 50/60Hz, 0.35A MAX Output: DC 5V/2A
Applicant	: Lightcomm Technology Co., Ltd. RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI
Address	: WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG
Manufacturer	: Huizhou Hengdu Electronics Co., Ltd.
Address	: DIP South Area, Huiiao Highway, Huizhou, Guangdong, China
Sample Type	: Prototype production

2.2. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Notebook	ACER	ZQT	N/A	DOC
2	USB Mouse	ACER	MS.11200.014	M-UAY-ACR2	DOC
3	USB Keyboard	ACER	SK-9625	KBUSB158050 0037E0100	DOC

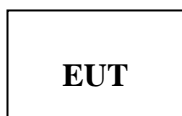
2.3. Test mode Description

No	Test Mode
1	Charging
2	Playing
3	Camera
4	Charging and Playing
5	Charging and Camera
6	Data Transmitting

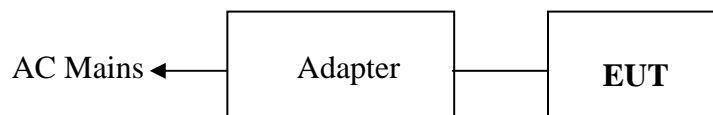
Test Item	Test Mode	worst mode
Conducted Emissions From The AC Mains Power Ports	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6	Mode 4, 6
Radiated Emissions	Mode1, Mode2, Mode3, Mode4, Mode5, Mode6	Mode6
This report only reflected the worst mode		

2.4. Block Diagram of connection between EUT and simulators

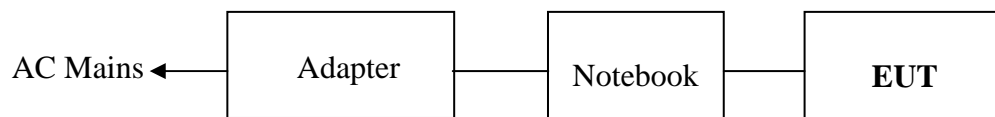
Mode: 2, 3



Mode: 1, 4, 5



Mode: 6



Signal Cable Description of the above Support Units					
No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
(a)	N/A	N/A	N/A	N/A	N/A

EUT: MID

2.5. Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

2B/F., Building B, No.99, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road,
Bao' an District, Shenzhen, Guangdong, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC

Registration Number: 12135A

2.6. Measurement Uncertainty

(95% confidence levels, k=2)

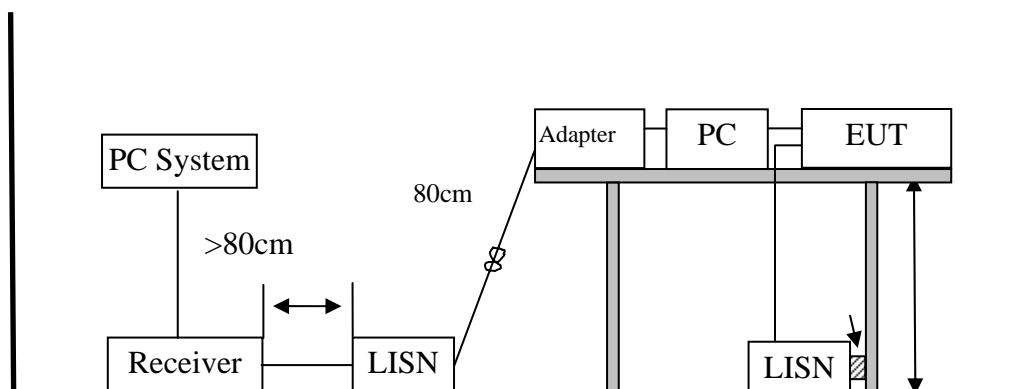
Test Item	Uncertainty
Uncertainty for Conduction emission test	2.42dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54 dB (Distance: 3m Polarize: V)
	4.1dB (Distance: 3m Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.56dB (Distance: 3m Polarize: V)
	2.08 dB (Distance: 3m Polarize: H)

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal. DUE	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	101165	2017.09.29	1 Year
2.	L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.09.29	1 Year
3.	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2017.09.29	1 Year
4.	Pulse Limiter	Schwarzbeck	9516F	9618	2017.09.29	1 Year
5.	Cable	Resenberger	SUCOFLEX 104	MY6562/4	2017.09.29	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes:
1. Emission level=Read level + LISN factor-Preamplifier factor + Cable loss
 2. * Decreasing linearly with logarithm of frequency.
 3. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

3.6. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on conducted Emission test.
- (2) The frequency range from 150kHz to 30MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.
- (3) The frequency range from 30MHz to 1000MHz was pre-scanned with a Peak detector and all final readings of measurement from Test Receiver are Quasi-Peak and Average values.
- (4) The test results are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

EUT	: MID	Test Date	: 2017.03.08
M/N	: MID6901-GA	Temperature	: 24.1°C
Test Engineer	: Eirc Huang	Humidity	: 54%
Test Mode	: Data Transmitting, Charging and Playing		
Test Results	: PASS		
<p>Note:</p> <ol style="list-style-type: none"> 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 4. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. 			

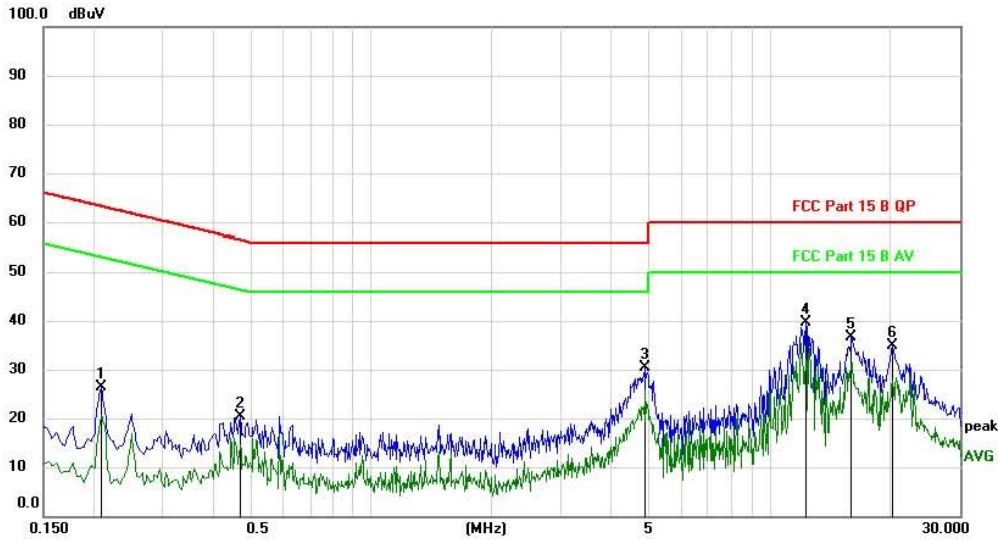


Site: LAB
 Limit: FCC Part 15 B QP
 EUT:
 MN: MID6901-GA
 Mode: Data Transmitting
 Note:

Phase: **L1** Temperature: 24.1
 Power: Humidity: 54 %

Conducted Emission Measurement

File: Data #1 Date: 2017-3-08 Time: 10:20:04



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2100	16.81	9.67	26.48	63.21	-36.73	peak	
2		0.4700	10.73	9.71	20.44	56.51	-36.07	peak	
3		4.8859	20.12	10.15	30.27	56.00	-25.73	peak	
4	*	12.2660	29.34	10.38	39.72	60.00	-20.28	peak	
5		16.0180	26.09	10.45	36.54	60.00	-23.46	peak	
6		20.3180	24.42	10.48	34.90	60.00	-25.10	peak	

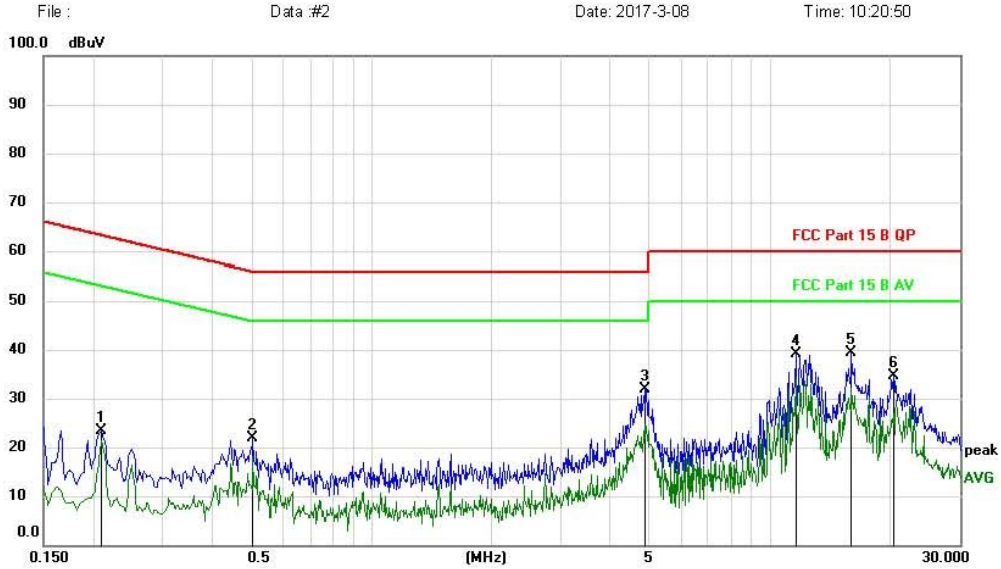
*:Maximum data x:Over limit l:over margin (Reference Only)

Note: Measurement=Reading Level+Correc Factor, Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Site: LAB Phase: **N** Temperature: 24.1
 Limit: FCC Part 15 B QP Power: Humidity: 54 %
 EUT:
 MN: MID6901-GA
 Mode: Data Transmitting
 Note:

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2100	13.71	9.67	23.38	63.21	-39.83	peak	
2		0.5060	12.16	9.71	21.87	56.00	-34.13	peak	
3		4.8620	21.76	10.15	31.91	56.00	-24.09	peak	
4		11.6059	28.65	10.37	39.02	60.00	-20.98	peak	
5	*	16.0180	28.84	10.45	39.29	60.00	-20.71	peak	
6		20.3779	24.18	10.49	34.67	60.00	-25.33	peak	

*:Maximum data x:Over limit l:over margin (Reference Only)

Note: Measurement=Reading Level+Correc Factor, Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

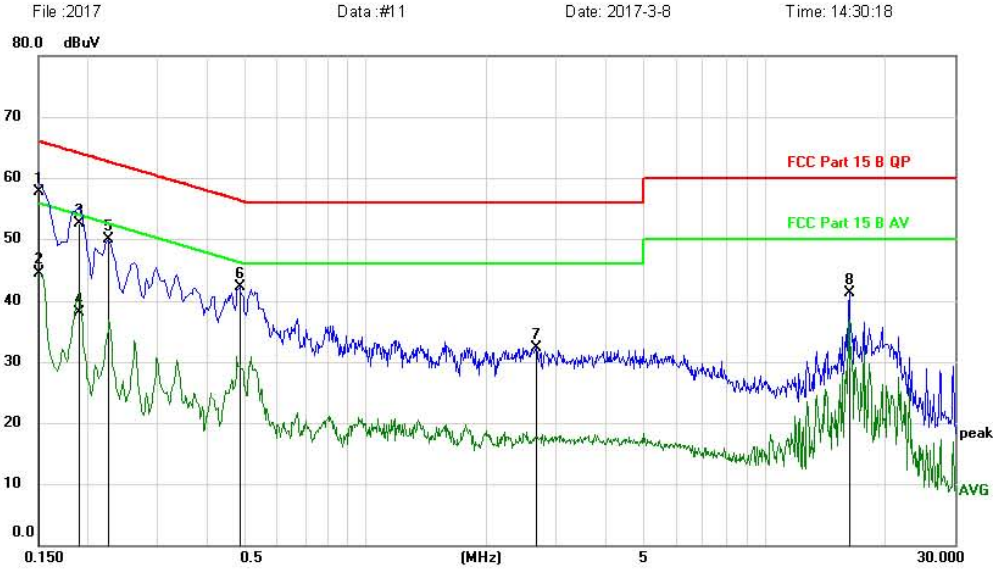


Shenzhen Alpha Product Testing Co., Ltd.
 Building i, No.2, Lixin Road, Fuyong Street,
 Bao'an District, 518103, Shenzhen, Guangdong, China

Site: LAB
 Limit: FCC Part 15 B QP
 EUT: MID
 MN: MID6901-GA
 Mode: Charging and Playing
 Note:

Phase: **L1** Temperature: 24.1
 Power: AC 120V/60Hz Humidity: 54 %

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	47.99	9.66	57.65	66.00	-8.35	QP	
2		0.1500	34.86	9.66	44.52	56.00	-11.48	AVG	
3		0.1905	42.88	9.67	52.55	64.01	-11.46	QP	
4		0.1905	28.43	9.67	38.10	54.01	-15.91	AVG	
5		0.2265	40.30	9.68	49.98	62.58	-12.60	peak	
6		0.4830	32.61	9.71	42.32	56.29	-13.97	peak	
7		2.6855	22.41	9.96	32.37	56.00	-23.63	peak	
8		16.2285	30.77	10.45	41.22	60.00	-18.78	peak	

*:Maximum data x:Over limit l:over margin (Reference Only)

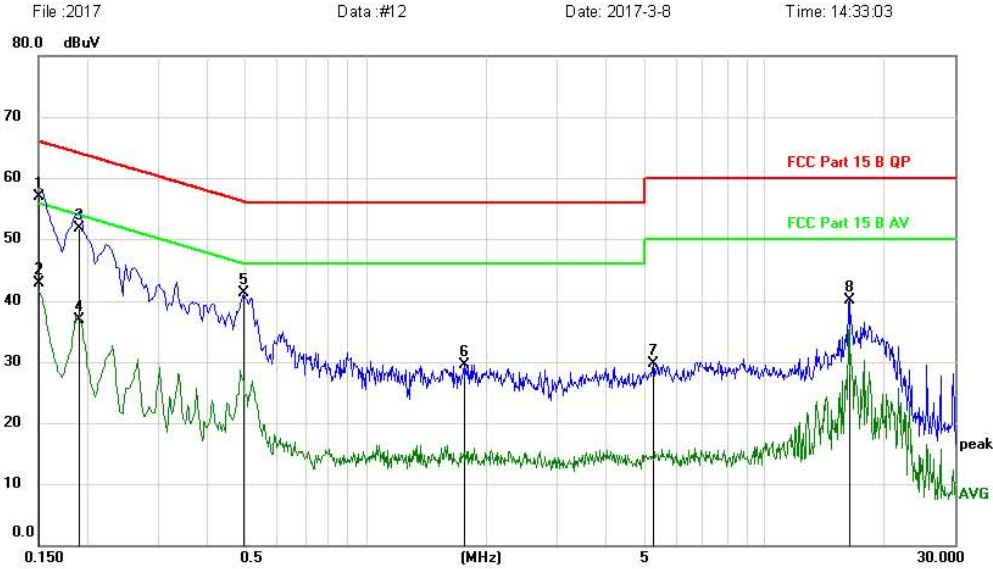
Note: Measurement=Reading Level+Correc Factor, Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable



Shenzhen Alpha Product Testing Co., Ltd.
 Building i, No.2, Lixin Road, Fuyong Street,
 Bao'an District, 518103, Shenzhen, Guangdong, China

Site: LAB	Phase: N	Temperature: 24.1
Limit: FCC Part 15 B QP	Power: AC 120V/60Hz	Humidity: 54 %
EUT: MID		
MN: MID6901-GA		
Mode: Charging and Playing		
Note:		

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	47.17	9.66	56.83	66.00	-9.17	QP	
2		0.1500	33.19	9.66	42.85	56.00	-13.15	AVG	
3		0.1905	42.05	9.67	51.72	64.01	-12.29	QP	
4		0.1905	27.21	9.67	36.88	54.01	-17.13	AVG	
5		0.4920	31.59	9.71	41.30	56.13	-14.83	peak	
6		1.7565	19.67	9.86	29.53	56.00	-26.47	peak	
7		5.2665	19.58	10.17	29.75	60.00	-30.25	peak	
8		16.2330	29.70	10.45	40.15	60.00	-19.85	peak	

*:Maximum data x:Over limit !:over margin (Reference Only)

Note: Measurement=Reading Level+Correc Factor, Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

4. RADIATED EMISSION TEST

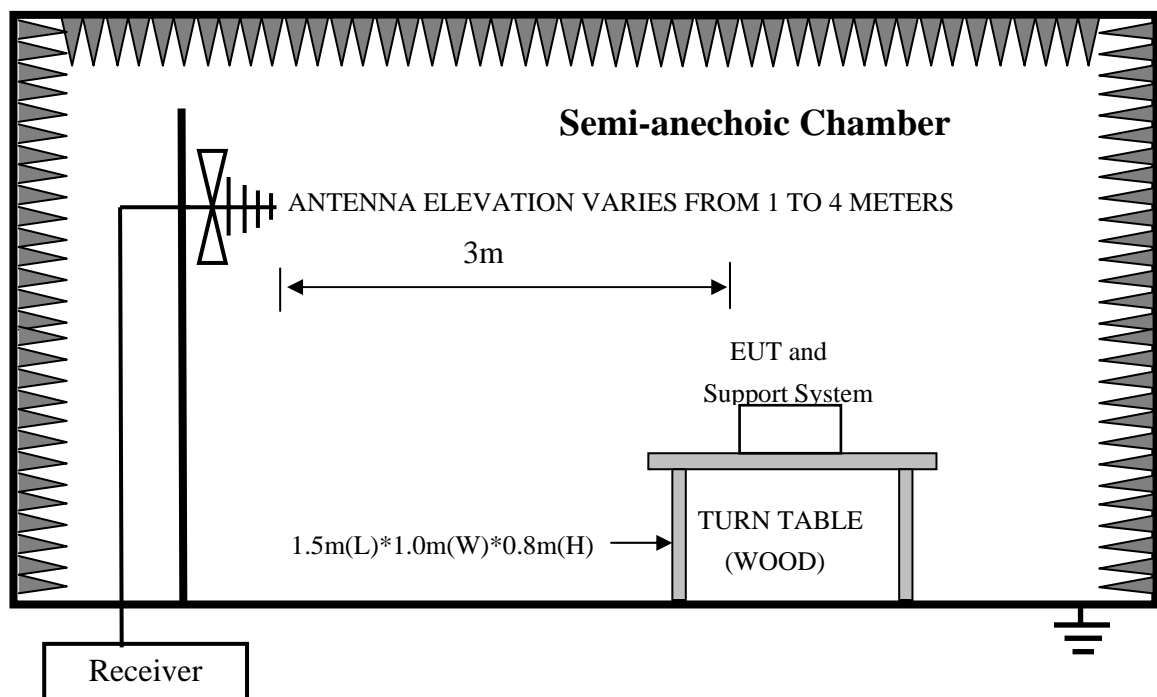
4.1. Test Equipment

For frequency range 30MHz~1GHz (At Semi Anechoic Chamber)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal. DUE	Cal. Interval
1	Test Receiver	Rohde&Schwarz	ESR	1316.3003K0 3-102082-Wa	2017.09.29	1 Year
2	Amplifier	HP	HP8347A	2834A00455	2017.09.30	1 Year
3	Bilog Antenna	Schwarzbeck	VULB 9168	9168-438	2017.09.30	2 Year
4	Cable	Resenberger	SUCOFLE X 104	309972/4	2017.09.29	1 Year

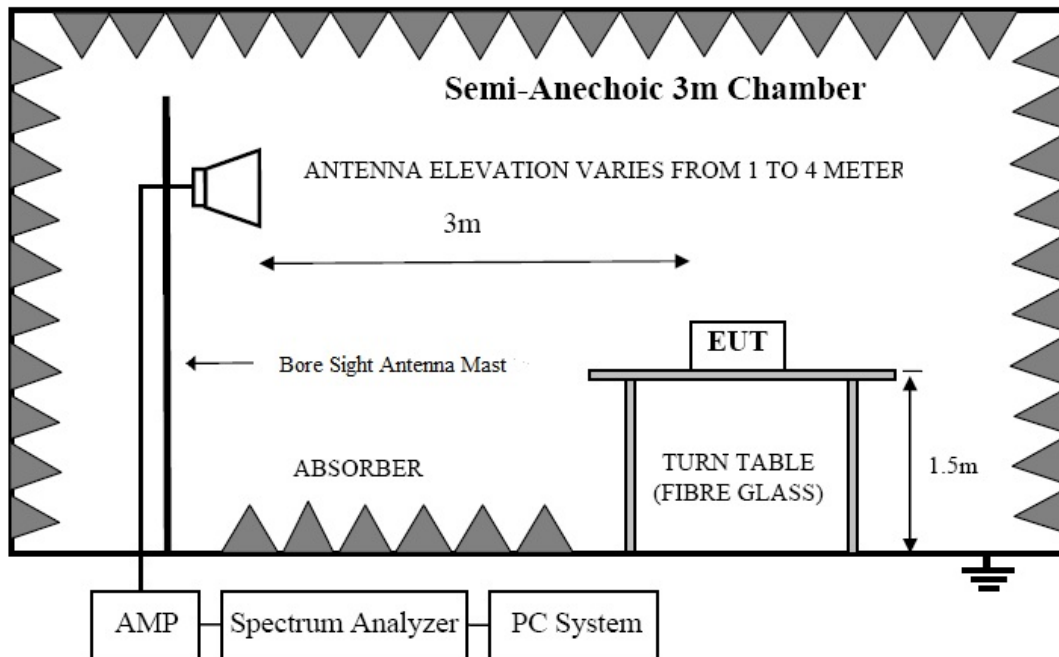
For frequency range above 1GHz (At Semi Anechoic Chamber (3m))						
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal. DUE	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY49510055	2017.09.29	1 Year
2	Horn Antenna	Schwarzbeck	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.20	1 Year
3	Amplifier	Agilent	8449B	3008A02664	2017.09.30	1 Year
4	Cable	Resenberger	SUCOFLE X 104	329112/4	2017.09.29	1 Year

4.2. Block Diagram of Test Setup

In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



In Semi Anechoic Chamber (3m) Test Setup Diagram for Above 1GHz



4.3. Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μ V)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1GHz	3	74(Peak) 54(Average)

- Notes:
1. Emission level = Read level + Antenna Factor - Preamp Factor + Cable Loss
 2. The smaller limit shall apply at the cross point between two frequency bands.
 3. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 4. Frequency range of radiated measurements:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

4.4. Configuration of EUT on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 4.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

4.6. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4:2014 on Radiated Emission test.
- (2) For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- (3) The frequency range from 30MHz to 1000MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 120kHz.
- (4) The frequency range from above 1GHz is checked, the bandwidth of spectrum analyzer (Analyzer Spectrum Analyzer E4407B) is set at 1MHz.
- (5) The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values, the frequency range from 1GHz to 6GHz was pre-scanned with a peak detector and all final readings of measurement from Spectrum Analyzer are peak and average values checked, all measurement distance is 3m in 3m semi anechoic chamber.
- (6) The test results are reported on Section 4.7.

4.7. Radiated Disturbance Test Results

Frequency Range : 30MHz~1000MHz	
EUT : MID	Test Date : 2017.03.08
M/N : MID6901-GA	Temperature : 24.1°C
Test Engineer : Eirc Huang	Humidity : 54%
Test Mode : Data Transmitting	
Test Results : PASS	
<p>Note: 1. The test results are listed in next pages.</p> <p>2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the quasi-peak detector need not be carried out.</p>	

Frequency Range : Above 1GHz	
EUT : MID	Test Date : 2017.03.08
M/N : MID6901-GA	Temperature : 24.2°C
Test Engineer : Eirc Huang	Humidity : 54%
Test Mode : Data Transmitting	
Test Results : PASS	
<p>Note: 1. Test from 1GHz to 25GHz , only worse case is reported , for above 18GHz , no emission found</p>	



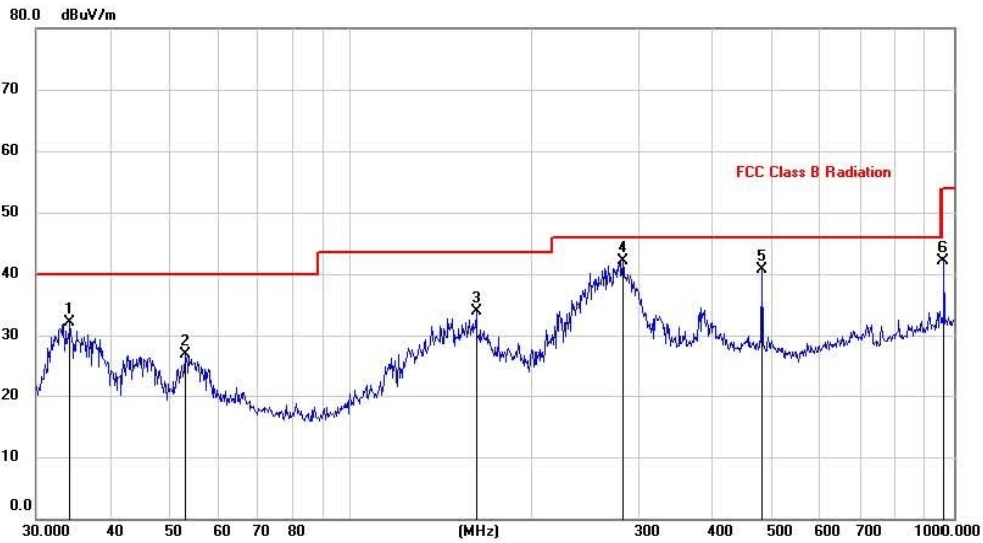
Site: LAB
 Limit: FCC Class B Radiation
 EUT: MID
 M/N: MID6901-GA
 Mode: Data Transmitting
 Note:

Polarization: **Horizontal**
 Power:
 Distance: 3m

Temperature: 24.1
 Humidity: 54 %

Radiated Emission Measurement

File :MID6901-GA Data :#9 Date: 2017/3/08 Time: 17:16:55



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		34.1561	18.57	13.46	32.03	40.00	-7.97	peak			
2		52.9453	13.51	13.45	26.96	40.00	-13.04	peak			
3		162.0414	19.57	14.41	33.98	43.50	-9.52	peak			
4	*	282.9852	29.08	13.01	42.09	46.00	-3.91	peak			
5		480.5276	23.60	17.08	40.68	46.00	-5.32	peak			
6		965.5421	18.21	23.88	42.09	54.00	-11.91	peak			

Note: 1. *: Maximum data; x: Over limit; !: over margin.
 2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



Site LAB
 Limit: FCC Class B Radiation
 EUT: MID
 M/N: MID6901-GA
 Mode: Data Transmitting
 Note:

Polarization: **Vertical**
 Power:
 Distance: 3m

Temperature: 24.1
 Humidity: 54 %

Radiated Emission Measurement

File :MID6901-GA Data :#10 Date: 2017/3/08 Time: 17:18:50



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		34.2760	19.53	13.47	33.00	40.00	-7.00	QP			
2	*	45.3755	20.26	13.69	33.95	40.00	-6.05	peak			
3		52.9453	16.22	13.45	29.67	40.00	-10.33	peak			
4		153.2004	18.98	14.56	33.54	43.50	-9.96	peak			
5		254.7284	24.78	12.18	36.96	46.00	-9.04	peak			
6		726.8052	9.68	21.33	31.01	46.00	-14.99	peak			

Note: 1. *: Maximum data; x: Over limit; !: over margin.
 2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



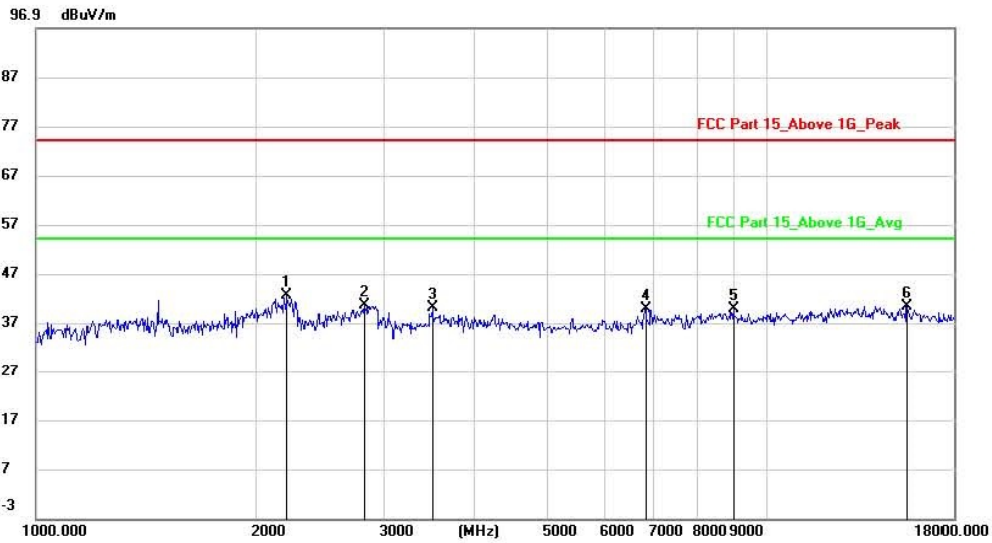
Site LAB
 Limit: FCC Part 15_Above 1G_Peak
 EUT: MID
 M/N: MID6901-GA
 Mode: Data Transmitting
 Note:

Polarization: *Horizontal*
 Power:
 Distance: 3m

Temperature: 24.2
 Humidity: 54 %

Radiated Emission Measurement

File :MID6901-GA Data :#17 Date: 2017/3/08 Time: 11:10:35



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	2201.352	45.91	-3.34	42.57	74.00	-31.43	peak			
2		2814.411	43.27	-2.79	40.48	74.00	-33.52	peak			
3		3485.601	46.44	-6.50	39.94	74.00	-34.06	peak			
4		6815.551	38.53	1.32	39.85	74.00	-34.15	peak			
5		8995.123	36.36	3.40	39.76	74.00	-34.24	peak			
6		15577.89	35.27	4.99	40.26	74.00	-33.74	peak			

Note: 1. *: Maximum data; x: Over limit; !: over margin.
 2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.



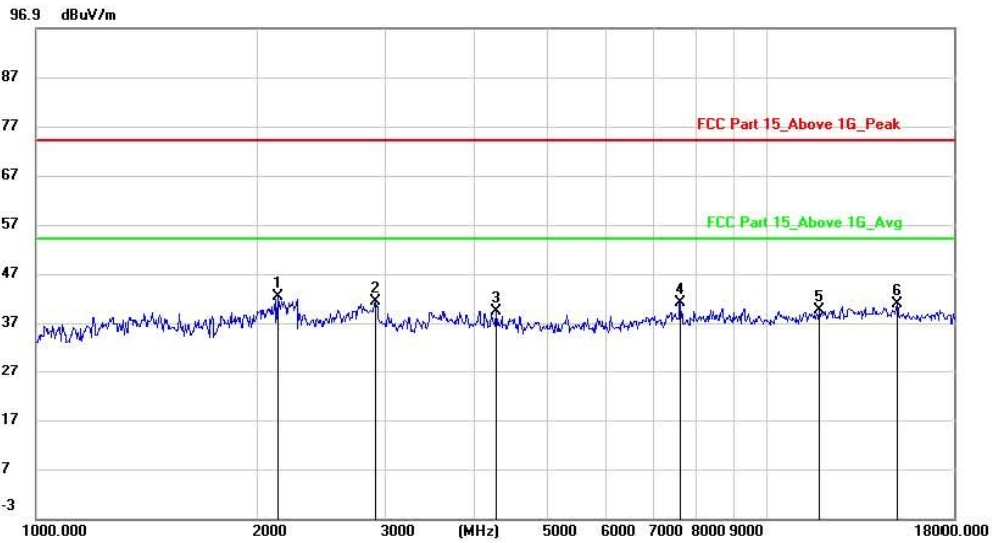
Site LAB
 Limit: FCC Part 15_Above 1G_Peak
 EUT: MID
 M/N: MID6901-GA
 Mode:Data Transmitting
 Note:

Polarization: **Vertical**
 Power:
 Distance: 3m

Temperature: 24.2
 Humidity: 54 %

Radiated Emission Measurement

File :MID6901-GA Data :#18 Date: 2017/3/08 Time: 11:10:40



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2144.825	45.93	-3.77	42.16	74.00	-31.84			peak
2		2922.174	43.92	-2.54	41.38	74.00	-32.62			peak
3		4279.589	43.67	-4.43	39.24	74.00	-34.76			peak
4		7606.788	37.77	3.15	40.92	74.00	-33.08			peak
5		11837.44	33.98	5.65	39.63	74.00	-34.37			peak
6		15090.40	33.19	7.55	40.74	74.00	-33.26			peak

Note:1. *:Maximum data; x:Over limit; !:over margin.
 2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.