



EMC TEST REPORT

According to

**47 CFR, FCC Part 15 Subpart B
ICES-003 issue 6: 2016**

Applicant : TPV Electronics (Fujian) Co., Ltd.
Address : Rongqiao Economic and Technological
Development Zone, Fuqing City, Fujian Province,
P.R. China
Equipment : LCD Monitor
Model No. : **353*****(*= 0-9, A-Z, a-z, +, -, /, \ or blank)

I HEREBY CERTIFY THAT :

The sample was received on Nov. 10, 2019 and the testing was carried out on Nov. 18, 2019 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Miro Chueh
EMC/RF B.U. Manager



EMC TEST REPORT

Issued by:

CerpPASS Technology (Suzhou) Co.,Ltd

No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China

Tel:+86-512-6917-5888

Fax:+86-512-6917-5666

The test record, data evaluation & Equipment. Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.



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History of this test report

Original.

Additional attachment as following record:

Report No	Version	Date	Description
SEFD1911042	Rev 01	Nov. 18, 2019	Initial Issue



1. Summary of Test Procedure and Test Result

1.1. Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 – 2014 and the energy emitted by this equipment was passed 47 CFR, Part 15B, CISPR PUB. 22.

The energy emitted by this equipment was passed both Radiated and Conducted Emissions Class B limits.

Test Item	Normative References	Test Result
Conducted Emission	ANSI C63.4-2014 FCC Part 15 Subpart B ICES-003 issue 6: 2016	PASS
Radiated Emission	ANSI C63.4-2014 FCC Part 15 Subpart B ICES-003 issue 6: 2016	PASS

Note: Deviations YES NO



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Product Name:	LCD Monitor	
Model Name:	**353*****(*= 0-9, A-Z, a-z, +, -, /, \ or blank)	
Housing material:	Plastic case	
EUT Highest Frequency:	1080MHz	
EUT Power Rating:	Input:100-240V, 50-60Hz 3 Pin Power Port	
AC Power Cord Type:	No-Shielded, 1.5m&1.8m	
Adapter #1	Model No.:	FSP230-AJAN3
	Input:	100-240Vac,3A,50-60Hz
	Output:	19.5Vdc,11.79A

Note: Please refer to user manual.

I/O PORT:

I/O PORT TYPE	Quantity
1). DP Port	1
2). HDMI Port	1
3). Audio Port	3
4). USB Port	6
5). Power Port	1



2.2. Test Manner

Test Manner

- a During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b Turn on the power of all equipment.
- c The complete test system included Computer, USB Keyboard, USB Mouse, Earphone, HDD and EUT for EMI test.

The pre-test modes for CE/RE

Test Mode 1	Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3
Test Mode 2	Full system (HDMI mode 3440*1440@100Hz) Signal from PC with Adapter FSP230-AJAN3
Test Mode 3	Full system (Display mode 1920*1080@60Hz) Signal from PC with Adapter FSP230-AJAN3
Test Mode 4	Full system (Display mode 640*480@60Hz) Signal from PC with Adapter FSP230-AJAN3
Test Mode 5	Full system (HDMI mode 1080P) Signal from DVD with Adapter FSP230-AJAN3
Test Mode 6	Full system (Display mode 3440*1440@200Hz) Signal from PC USB3.0 with R/W with Adapter FSP230-AJAN3
Test Mode 7	Full system (Display mode 3440*1440@200Hz) Signal from PC USB3.0 with Load (5V/1.5A) with Adapter FSP230-AJAN3

“Test mode 1” was reported as final data.

The maximum operating frequency is above 108MHz, the test frequency range is from 1GHz to 6GHz.



2.3. Description of Support Systems

No.	Device	Manufacturer	Model No.	Description
1	Computer	HP	HP Compaq Elite 8200 MTPC	R33002
2	USB Keyboard	DELL	SK-8115	T3A002
3	USB Mouse	DELL	G0K02XYK	R41108
4	Earphone	SALAR	V18	N/A
5	HDD	WD	WDBPCK5000ABK-01	N/A
6	HDD	WD	WDBPCK5000ABK-02	N/A
7	HDD	WD	WDBPCK5000ABK-03	N/A
8	HDD	WD	WDBPCK5000ABK-04	N/A

Use cable

No	Cable	Quantity	Description
A	Display Cable	1	Shielded, 1.5m&1.8m
B	HDMI Cable	1	Shielded, 1.5m&1.8m
C	USB Cable	1	Shielded, 1.5m
D	Audio out Cable	1	Non-Shielded, 1.8m
E	USB Cable	1	Shielded, 1.8m, with one ferrite core bonded
F	USB Cable	1	Shielded, 1.2m
G	AC Power Cable	1	Non-Shielded, 1.5m&1.8m
H	Audio Cable	1	Non-Shielded, 1.8m
I	USB Cable	4	Shielded, 0.6m
J	USB Cable	1	Shielded, 1.5m



2.4. General Information of Test LAB

<input checked="" type="checkbox"/> Test Site	Cerpass Technology (Suzhou) Co.,Ltd Address: No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666	
	CNAS	L5515
	FCC	CN1243
	A2LA	4981.01
	IC	7920A-1, 7920A-2
	TAF	1439
	VCCI	T-11945 for Telecommunication Test C-12919 for Conducted emission test R-12670 for Radiated emission test G-10227 for radiated disturbance above 1GHz

2.5. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	9KHz-30MHz	+/- 0.6847dB
Conducted emissions(NEUTRAL)	9KHz-30MHz	+/- 0.6763dB

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions (below 1GHz)	H	30MHz ~ 200MHz	+/- 4.0702dB
		200MHz ~1000MHz	+/- 3.9158dB
	V	30MHz ~ 200MHz	+/- 4.0704dB
		200MHz ~1000MHz	+/- 3.9167dB
Radiated emissions (above 1GHz)	H	1000MHz ~18000MHz	+/- 3.8864dB
		18000MHz ~40000MHz	+/-3.9314dB
	V	1000MHz ~18000MHz	+/- 3.8896dB
		18000MHz ~40000MHz	+/- 3.8766dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in ANSI C63.4-2014. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

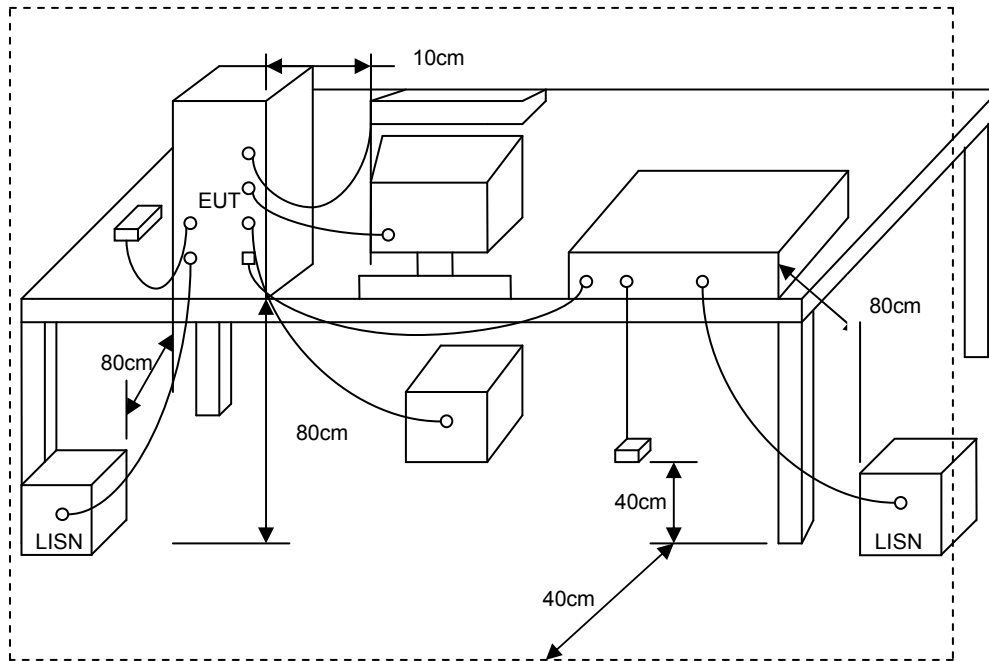
Conducted Emission Limits:

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

3.2. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.3. Typical test Setup



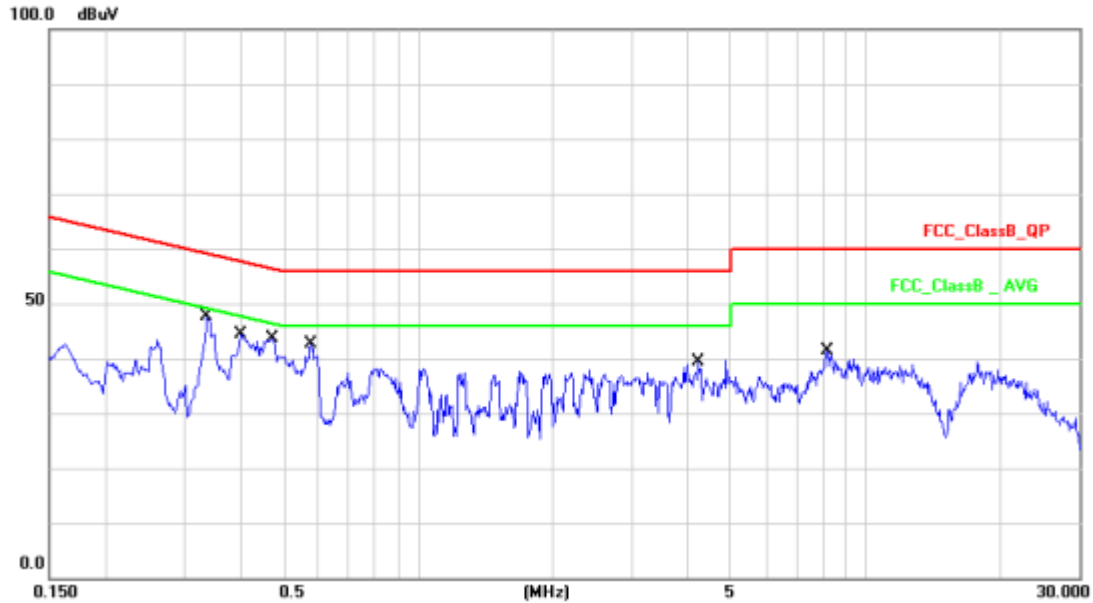
3.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2019.07.13	2020.07.12
AMN	R&S	ESH2-Z5	100182	2019.08.22	2020.08.21
ISN	FCC	FCC-TLISN-T2-02	20379	2019.03.11	2020.03.10
ISN	FCC	FCC-TLISN-T4-02	20380	2019.03.23	2020.03.22
ISN	SCHWARZBECK	T8 CAT6	173	2019.03.23	2020.03.22
ISN	TESEQ	ISN ST08	30175	2019.08.22	2020.08.21
ISN	TESEQ	ISN S751	31531	2019.08.22	2020.08.21
LISN	FCC	FCC-LISN-50-200-2-02	112087	2019.08.22	2020.08.21
LISN	SCHWARZBECK	NSLK 8127	8127-920	2019.08.22	2020.08.21
LISN	R&S	ENV216	100325	2019.08.22	2020.08.21
Current Probe	R&S	EZ-17	100303	2019.03.17	2020.03.16
Passive Voltage Probe	R&S	ESH2-Z3	100026	2019.03.17	2020.03.16
Pulse Limiter	R&S	ESH3-Z2	100529	2019.03.11	2020.03.10
Temperature/ Humidity Meter	GEMLead	STH200A	N/A	2019.04.15	2020.04.14
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



3.5. Test Result and Data

Test Mode :	Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	**353*****
Temperature :	25°C	Humidity :	52%
Pressure(mbar) :	1002	Date:	2019/11/14



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3373	9.97	34.22	44.19	59.27	-15.08	QP
2	0.3373	9.97	28.68	38.65	49.27	-10.62	AVG
3	0.4018	9.97	22.57	32.54	57.82	-25.28	QP
4	0.4018	9.97	3.25	13.22	47.82	-34.60	AVG
5	0.4711	9.98	34.62	44.60	56.49	-11.89	QP
6	0.4711	9.98	18.35	28.33	46.49	-18.16	AVG
7	0.5761	9.98	29.41	39.39	56.00	-16.61	QP
8	0.5761	9.98	21.09	31.07	46.00	-14.93	AVG
9	4.2241	10.11	21.99	32.10	56.00	-23.90	QP
10	4.2241	10.11	8.18	18.29	46.00	-27.71	AVG
11	8.1916	10.24	21.32	31.56	60.00	-28.44	QP
12	8.1916	10.24	9.69	19.93	50.00	-30.07	AVG

Note: Measurement Level = Reading Level + Correct Factor



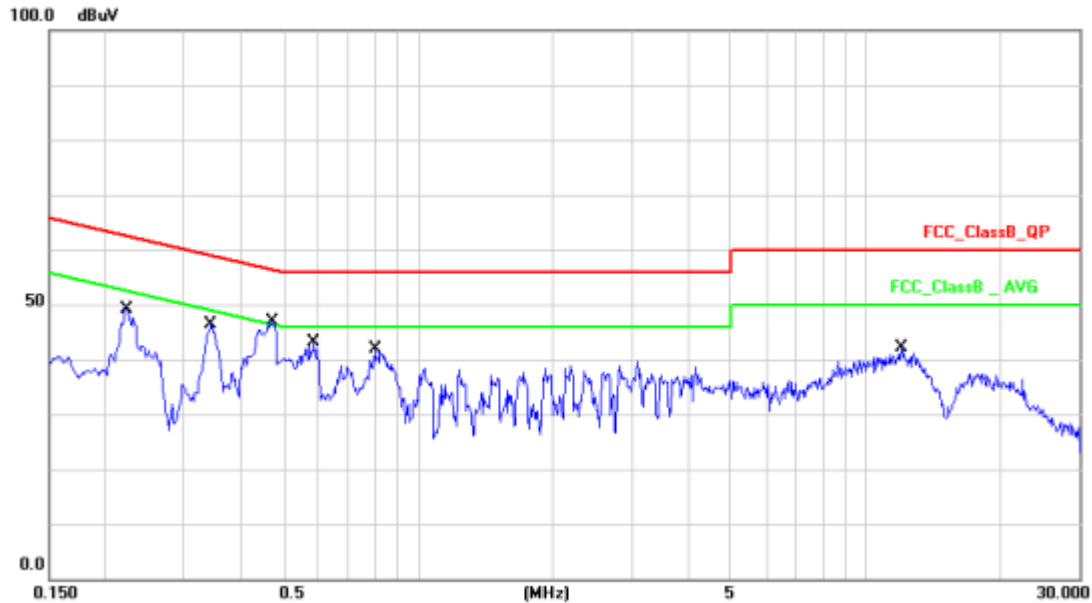
Test Mode : Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3

AC Power : AC 120V/60Hz Phase : NEUTRAL

Equipment : LCD Monitor Model No : **353*****

Temperature : 25°C Humidity : 52%

Pressure(mbar) : 1002 Date: 2019/11/14



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2231	9.97	29.66	39.63	62.70	-23.07	QP
2	0.2231	9.97	16.84	26.81	52.70	-25.89	AVG
3	0.3446	9.97	36.12	46.09	59.09	-13.00	QP
4	0.3446	9.97	30.08	40.05	49.09	-9.04	AVG
5	0.4711	9.98	34.60	44.58	56.49	-11.91	QP
6	0.4711	9.98	18.30	28.28	46.49	-18.21	AVG
7	0.5854	9.98	29.55	39.53	56.00	-16.47	QP
8	0.5854	9.98	16.24	26.22	46.00	-19.78	AVG
9	0.8002	9.99	25.73	35.72	56.00	-20.28	QP
10	0.8002	9.99	15.69	25.68	46.00	-20.32	AVG
11	11.9961	10.33	23.02	33.35	60.00	-26.65	QP
12	11.9961	10.33	13.79	24.12	50.00	-25.88	AVG

Note: Measurement Level = Reading Level + Correct Factor

Vane Xia

Test engineer: _____



3.6. Test Photographs

Front View



Rear View





4. Test of Radiated Emission

4.1. Test Limit

Below 1GHz (for digital device)

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

FREQUENCY (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHz)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 - 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHz)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency (MHz)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 1000	49.5	69.5	54	74

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) The measurement above 1GHz is at close-in distances 3m, and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: $L2 = L1 (d1/d2)$, where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:



Frequency (MHZ)	Class A (dBuV/m) (At 3m)	
	Average	Peak
Above 1000	60	80

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

4.2. Test Procedures

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 15 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.



- Set the spectrum analyzer/ Receiver in the following setting as:
Below 1GHz:
RBW=120KHz / VBW=300KHz / Sweep=AUTO
Above 1GHz:
Peak: RBW=1MHz, VBW=3MHz / Sweep=AUTO
Average: RBW=1MHz / VBW=1.6Hz / Sweep=AUTO
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

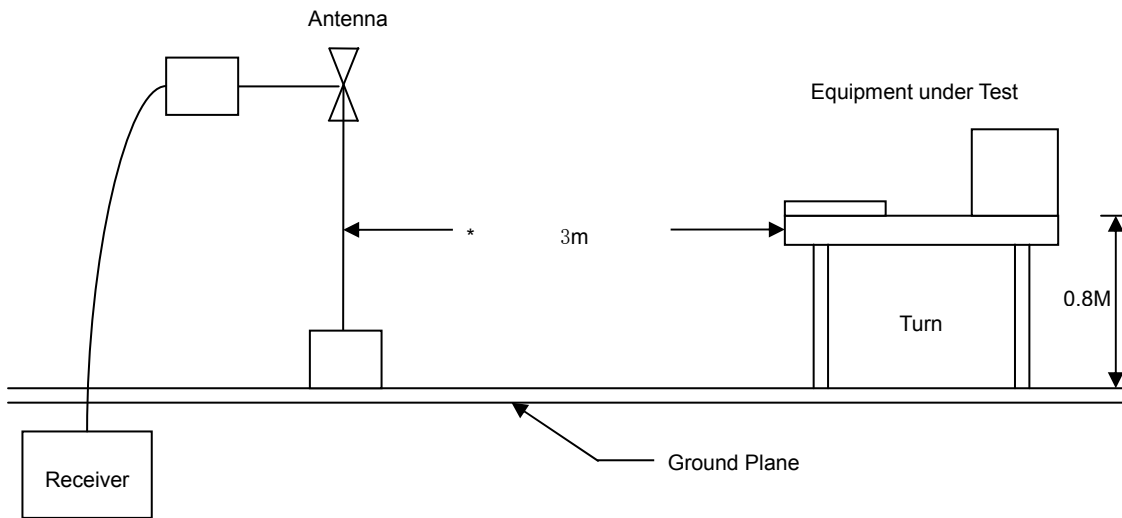
Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

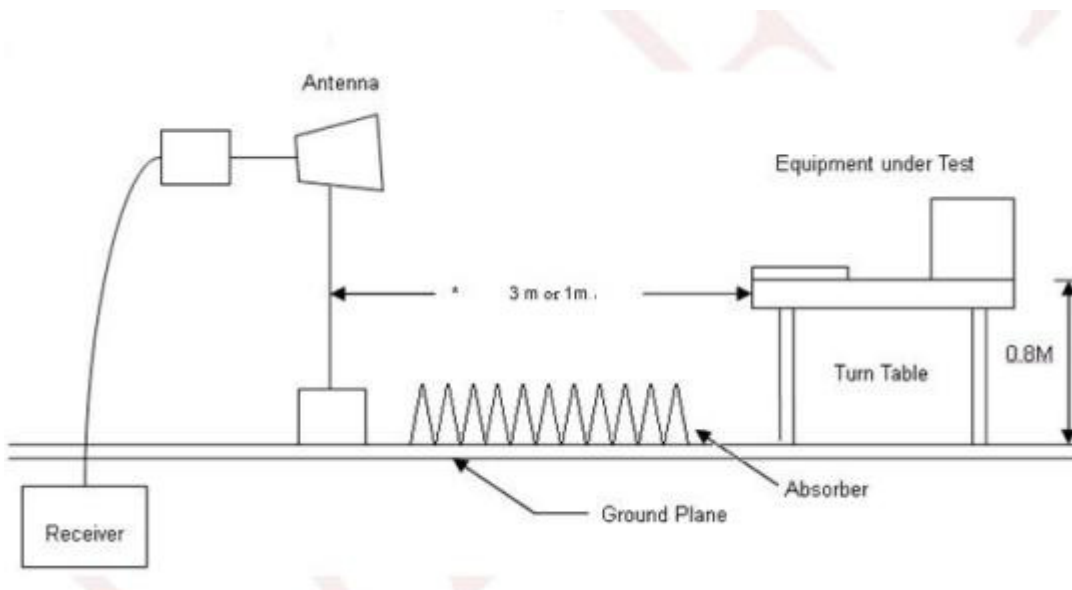


4.3. Typical test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup





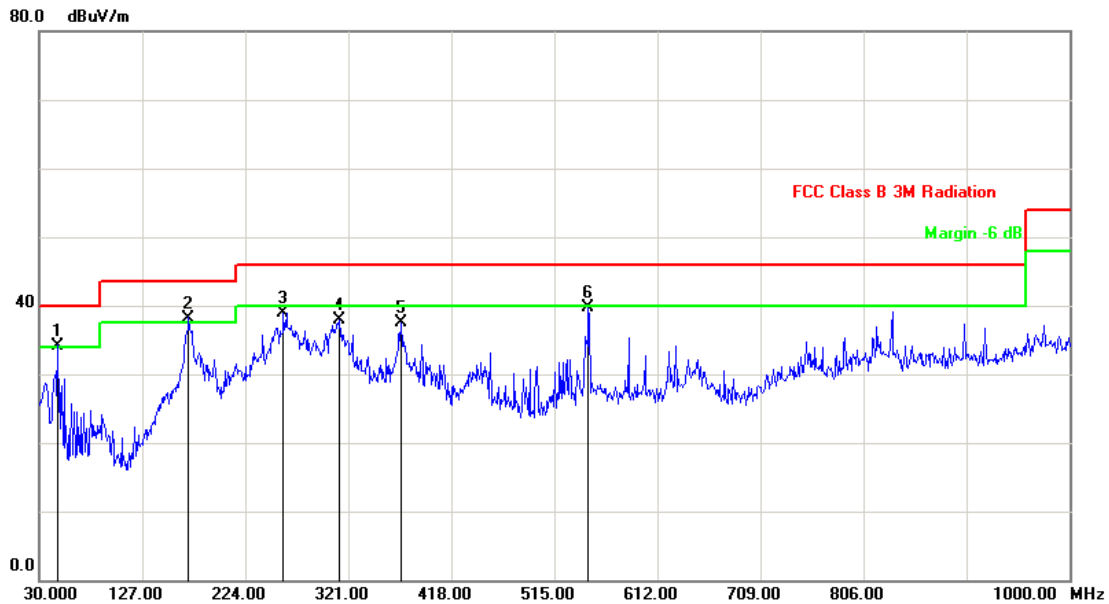
4.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESC17	100968	2019.07.28	2020.07.27
Preamplifier	EMCI	EMCI030-00-3230	SN016723	2019.03.11	2020.03.10
Preamplifier	Agilent	8449B	3008A02342	2019.03.11	2020.03.10
Bilog Antenna	Sunol Science	JB1	A072414-2	2019.07.13	2020.07.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-618	2019.04.16	2020.04.15
Spectrum Analyzer	R&S	FSP40	100324	2019.07.13	2020.07.12
Temperature/ Humidity Meter	GEMlead	STH200A	N/A	2019.04.15	2020.04.14
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



4.5. Test Result and Data (30MHz~1GHz)

Test Mode :	Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3		
AC Power :	AC 120V/60HZ	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	**353*****
Temp :	25°C	Humidity :	52%
Pressure(mbar) :	1002	Date:	2019/11/14

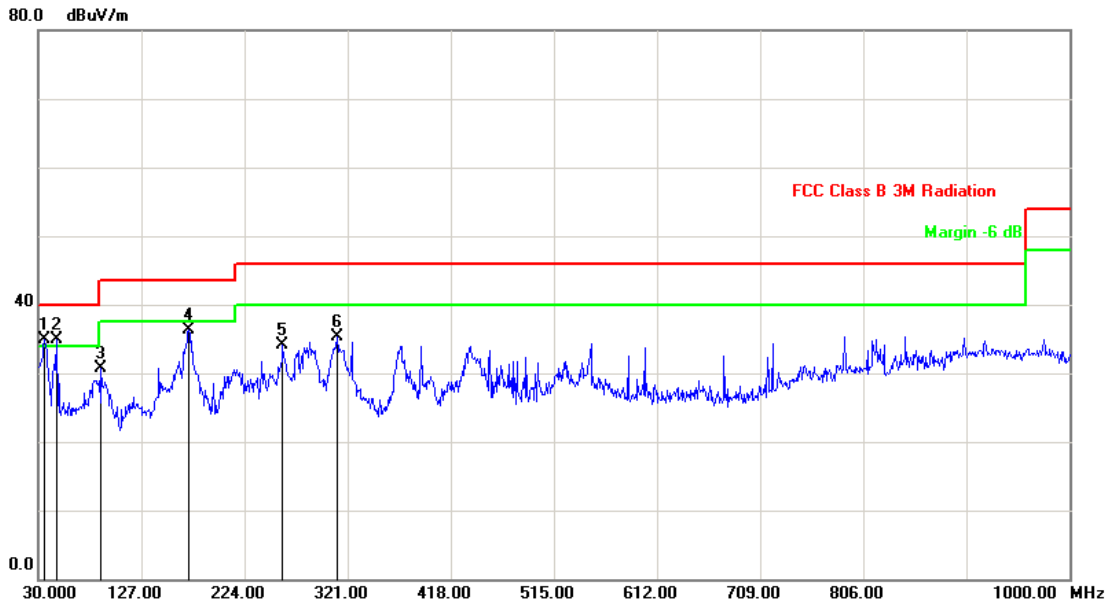


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	47.4600	-11.81	46.01	34.20	40.00	-5.80	peak	200	11
2	170.6500	-12.46	50.66	38.20	43.50	-5.30	peak	200	294
3	259.8900	-10.01	48.87	38.86	46.00	-7.14	peak	200	327
4	312.2700	-7.87	45.69	37.82	46.00	-8.18	peak	200	35
5	370.4700	-7.58	45.00	37.42	46.00	-8.58	peak	200	322
6	547.0100	-4.12	43.82	39.70	46.00	-6.30	peak	200	44

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3		
AC Power :	AC 120V/60HZ	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	**353*****
Temp :	25°C	Humidity :	52%
Pressure(mbar) :	1002	Date:	2019/11/14



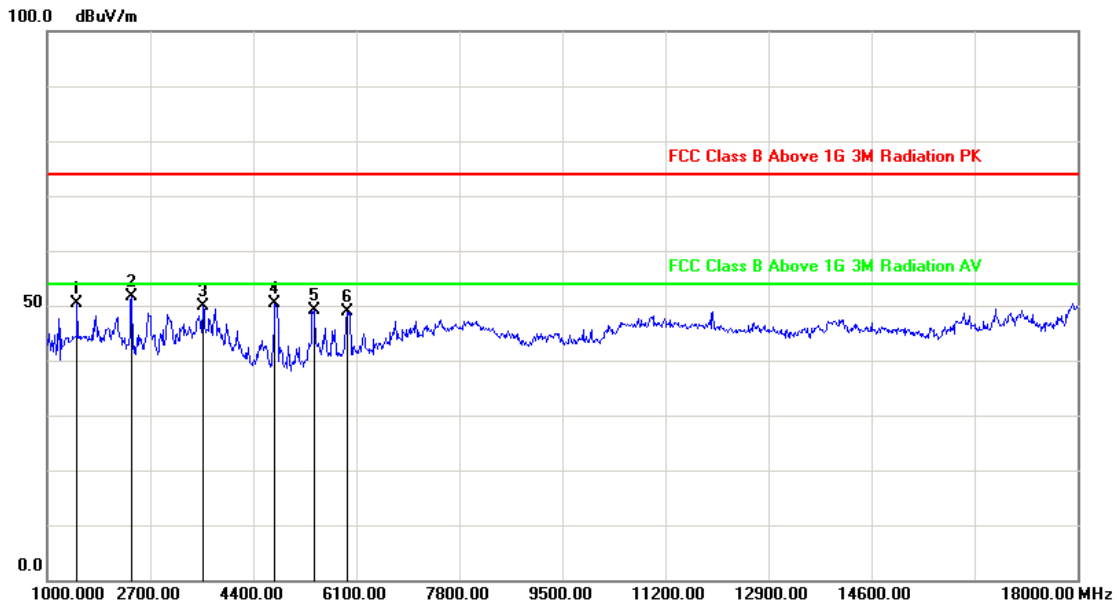
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	35.8200	-6.76	41.59	34.83	40.00	-5.17	peak	200	271
2	47.4600	-11.81	46.78	34.97	40.00	-5.03	peak	200	293
3	89.1700	-16.17	46.90	30.73	43.50	-12.77	peak	200	305
4	171.6200	-12.48	48.85	36.37	43.50	-7.13	peak	200	153
5	259.8900	-10.01	44.10	34.09	46.00	-11.91	peak	200	224
6	311.3000	-7.86	43.08	35.22	46.00	-10.78	peak	200	178

Note: Measurement Level = Reading Level + Correct Factor



4.6. Test Result and Data (1GHz ~ 18GHz)

Test Mode :	Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3		
AC Power :	AC 120V/60HZ	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	**353*****
Temp :	25°C	Humidity :	52%
Pressure(mbar) :	1002	Date:	2019/11/14

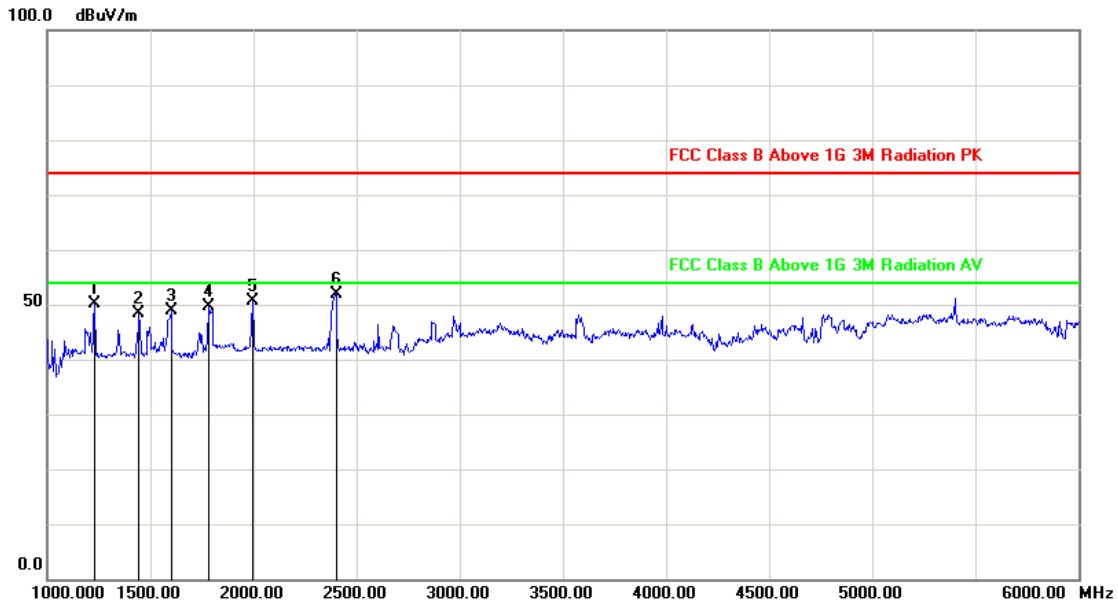


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1493.000	-28.85	79.30	50.45	74.00	-23.55	peak	100	266
2	2394.000	-25.67	77.28	51.61	74.00	-22.39	peak	100	293
3	3567.000	-22.70	72.51	49.81	74.00	-24.19	peak	100	21
4	4757.000	-20.79	71.07	50.28	74.00	-23.72	peak	100	0
5	5403.000	-19.16	68.24	49.08	74.00	-24.92	peak	100	36
6	5947.000	-17.02	65.92	48.90	74.00	-25.10	peak	100	15

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full system (Display mode 3440*1440@200Hz) Signal from PC with Adapter FSP230-AJAN3		
AC Power :	AC 120V/60HZ	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	**353*****
Temp :	25°C	Humidity :	52%
Pressure(mbar) :	1002	Date:	2019/11/14



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1230.000	-28.76	78.84	50.08	74.00	-23.92	peak	200	23
2	1445.000	-28.83	77.30	48.47	74.00	-25.53	peak	200	0
3	1600.000	-28.22	77.01	48.79	74.00	-25.21	peak	174	360
4	1780.000	-27.09	76.76	49.67	74.00	-24.33	peak	200	352
5	1995.000	-25.73	76.25	50.52	74.00	-23.48	peak	200	188
6	2400.000	-25.67	77.64	51.97	74.00	-22.03	peak	155	360

Note: Measurement Level = Reading Level + Correct Factor

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Test engineer: _____



4.7. Test Photographs (30MHz ~ 1GHz)

Front View



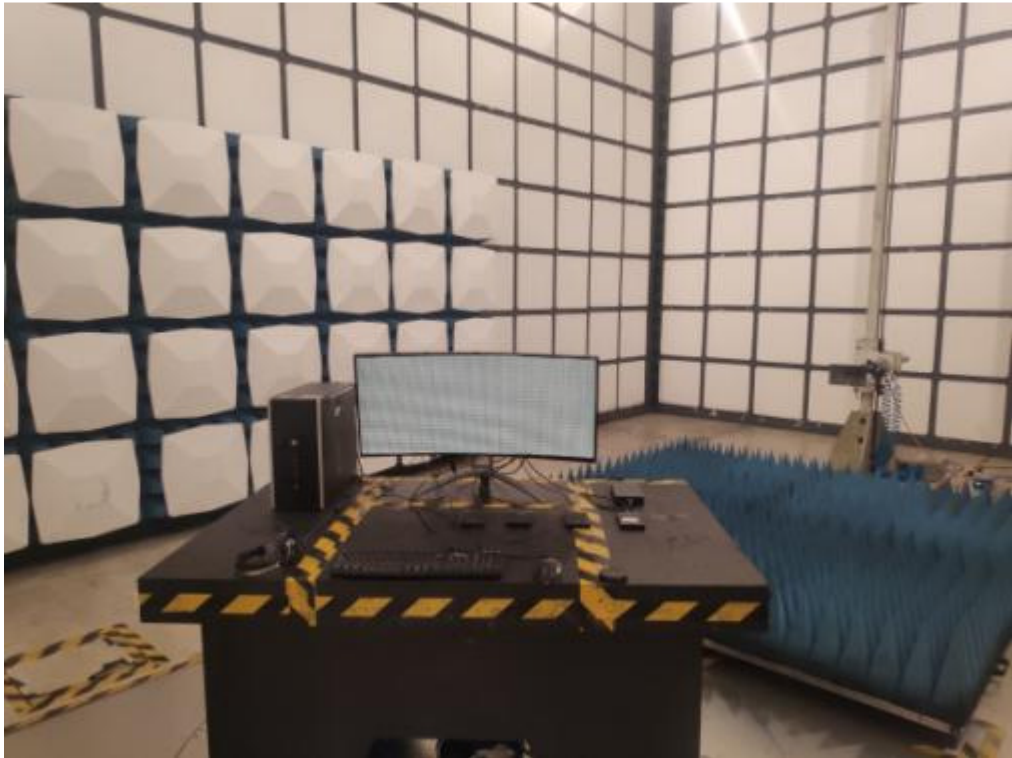
Rear View





4.8. Test Photographs (1GHz ~ 18GHz)

Front View



Rear View

