



# **EMC TEST REPORT**

Applicant:	SHOKZ (SINGAPORE) PTE. LTD.
Address:	11 NORTH BUONA VISTA DRIVE #16-09 THE METROPOLIS SINGAPORE(138589), Singapore City, Singapore

Manufacturer or Supplier:	SHOKZ (SINGAPORE) PTE. LTD.
Address:	11 NORTH BUONA VISTA DRIVE #16-09 THE METROPOLIS SINGAPORE(138589), Singapore City, Singapore
Product:	Loop120 USB-A Adapter
Brand Name:	SHOKZ
Model Name:	SHOKZ CL120A
FCC ID:	2BCD6-CL120A
Date of tests:	Feb. 21, 2024 ~ Mar. 11, 2024

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☐ FCC Part 15, Subpart B, Class A
☑ FCC Part 15, Subpart B, Class B
☑ ANSI C63.4:2014

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department Approved by Luke Lu Manager / Mobile Department

Simon Wang

Date: Mar. 11, 2024

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Date: Mar. 11, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <a href="http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/">http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/</a> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or or mission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be inwriting and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of the report contents.



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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24020003EM02	Original release	Mar. 11, 2024



# **1 GENERAL INFORMATION**

# **1.1 GENERAL DESCRIPTION OF EUT**

PRODUCT	Loop120 USB-A Adapter		
BRAND NAME	SHOKZ		
MODEL NAME	SHOKZ CL120A		
NOMINAL VOLTAGE	5Vdc (host equipment)		
MODULATION TYPE	Bluetooth	GFSK, π/4-DQPSK, 8DPSK	
OPERATING FREQUENCY	Bluetooth	2402MHz ~ 2480MHz	
HW VERSION	C Version		
SW VERSION	DongleU_A01_20240116		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		
ACCESSORY DEVICES	Refer to note as below		

## NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



# 1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	
FCC Part 15,	Conducted Test	Compliance	
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance	
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance	

# **1.3 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:

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
	30MHz~1GHz	±4.98dB
Dedicted emissions	1GHz ~6GHz	±4.70dB
Radiated emissions	6GHz ~18GHz	±4.60dB
	18GHz ~40GHz	±4.12dB



# **1.4 DESCRIPTION OF TEST MODES**

Test Mode	Test Condition	
Radiated emission test		
1	EUT+ PC+ adapter+ mouse+ Bluetooth Earphone(BT Playing)	

		Conducted emission test
Γ	1	EUT+ PC+ adapter+ mouse+ Bluetooth Earphone(BT Playing)

## NOTE:

- 1. For conducted emission test, Pre-scan all mode, mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, Pre-scan all mode, test mode 1 was the worst case and only this mode was presented in this report



# **1.5 DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### FOR ALL TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	OpenComm2	SHOKZ	C110	N/A	2A5CDC110
2	Mouse	M90	M-U0026	1817HS07Y798	N/A
3	Laptop	Dell	Latitude 5430	N/A	N/A
4	Wireless AP	ABOCOM	WR224GR	060500749P	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	RJ45 Line: Unshielded, Undetachable, 3.0m	
2	AC power Line: Unshielded, Undetachable, 2.0m	



# 2 EMISSION TEST

## 2.1 CONDUCTED EMISSION MEASUREMENT

## 2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

## TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 A CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

## TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 B CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

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

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

# 2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 13,24	Feb. 12,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,23	Mar. 09,24
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 09,24	Mar. 08,25

	NOTE:	1. The test was performed in CE shielded room.
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# 2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

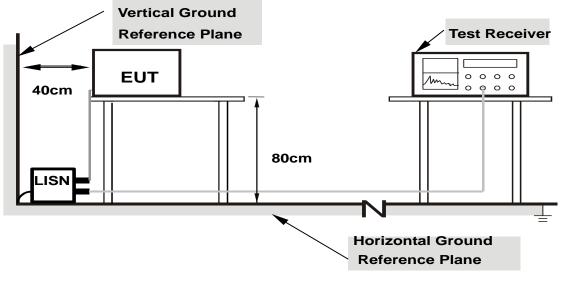
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

# 2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

# 2.1.5 TEST SETUP





Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

# 2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



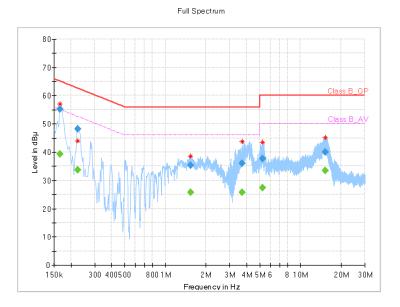
# 2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.166000		39.29	55.16	15.87	L1	ON	9.8
0.166000	55.23		65.16	9.93	L1	ON	9.8
0.224000		33.77	52.67	18.90	L1	ON	9.8
0.224000	48.21		62.67	14.46	L1	ON	9.8
1.540000		25.67	46.00	20.33	L1	ON	9.8
1.540000	35.27		56.00	20.73	L1	ON	9.8
3.696000		25.67	46.00	20.33	L1	ON	9.8
3.696000	36.02		56.00	19.98	L1	ON	9.8
5.276000		27.41	50.00	22.59	L1	ON	9.8
5.276000	37.62		60.00	22.38	L1	ON	9.8
15.200000		33.57	50.00	16.43	L1	ON	10.9
15.200000	39.99		60.00	20.01	L1	ON	10.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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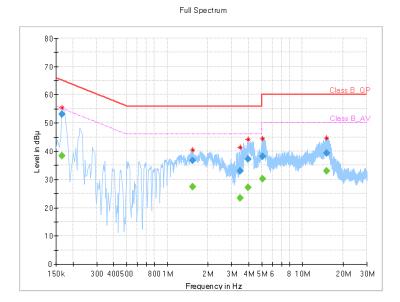


TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.166000		38.37	55.16	16.79	Ν	ON	9.7
0.166000	53.20		65.16	11.96	Ν	ON	9.7
1.544000		27.26	46.00	18.74	Ν	ON	9.8
1.544000	36.74		56.00	19.26	Ν	ON	9.8
3.452000		23.41	46.00	22.59	Ν	ON	9.7
3.452000	33.08		56.00	22.92	Ν	ON	9.7
3.940000		27.03	46.00	18.97	Ν	ON	9.7
3.940000	37.23		56.00	18.77	N	ON	9.7
5.058000		30.27	50.00	19.73	Ν	ON	9.7
5.058000	38.07		60.00	21.93	Ν	ON	9.7
15.160000		32.98	50.00	17.02	N	ON	10.9
15.160000	39.40		60.00	20.60	Ν	ON	10.9

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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# 2.2 RADIATED EMISSION MEASUREMENT

## 2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

## TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dBµV/m)					
Frequencies (MHz)	FCC 15B, Class B				
30-88	49	40			
88-216	53.5	43.5			
216-960	56	46			
960-1000	59.5	54			
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74			

## Frequency Range (For unintentional radiators)

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	5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower

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

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
  - 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
  - 4. QP detector shall be applied if not specified.



# 2.2.2 TEST INSTRUMENTS

#### Frequency range below1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	um°6m°6m	Euroshieldpn- CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 17,24	Feb. 16,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

## Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Nov. 14,23	Nov. 13,26
Horn Antenna	ETS-LINDGREN	3117	00168728	Nov. 29,23	Nov. 28,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS-003 61		Sep.03, 23	Sep.02, 24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 16,24	Feb. 15,25
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

NOTE: 1. The test was performed in 3m chamber.

2. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



# 2.2.3 TEST PROCEDURE

## <Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

## NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



## <Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

## NOTE:

- . The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- . The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
- . For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- . Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- . Margin value = Emission level Limit value.

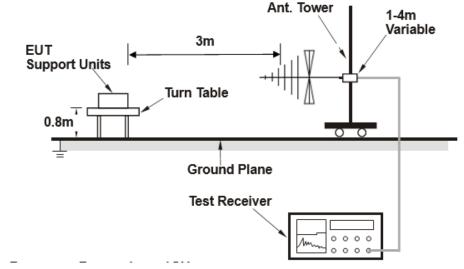
# 2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

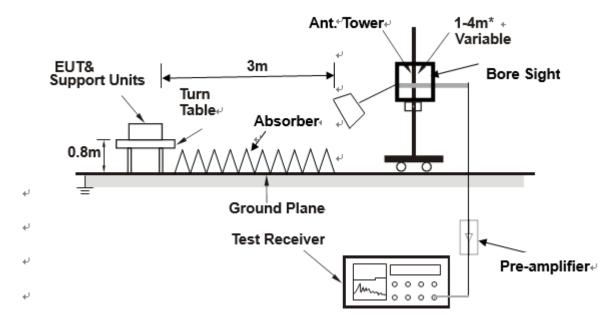


# 2.2.5 TEST SETUP

## <Frequency Range below 1GHz>



## <Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

# 2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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# 2.2.7 TEST RESULTS

Acceleromete alternative worst case:

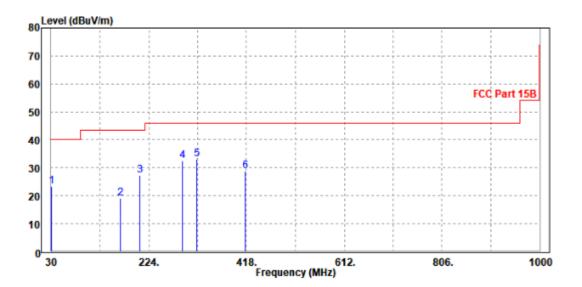
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Jace Hu		

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 3 4 5 PP 6	30.970 166.770 205.570 290.930 320.030 416.060	23.37 19.19 27.45 32.46 33.10 28.77	34.63 37.02 46.20 47.61 47.58 40.91	43.50 43.50 46.00 46.00	-16.63 -24.31 -16.05 -13.54 -12.90 -17.23	-17.83 -18.75 -15.15 -14.48	Peak Peak Peak Peak	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)- Amplifier Gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



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TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70% RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	ESTED BY Jace Hu		

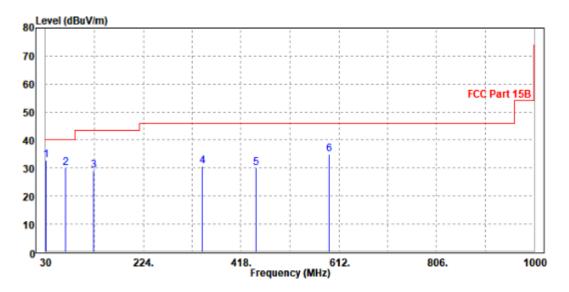
#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PP 2 3 4 5 6	30.970 69.770 125.060 341.370 448.070 592.600	32.72 30.15 29.07 30.84 30.12 34.93	43.71 53.56 48.19 44.28 40.81 43.46	43.50 46.00 46.00	-7.28 -9.85 -14.43 -15.16 -15.88 -11.07	-19.12 -13.44 -10.69	Peak Peak Peak Peak	Vertical Vertical Vertical Vertical Vertical Vertical

#### **REMARKS**:

Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)
Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain

- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.





TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	Peak/Average, 1 MHz	
TESTED BY	Jace Hu		

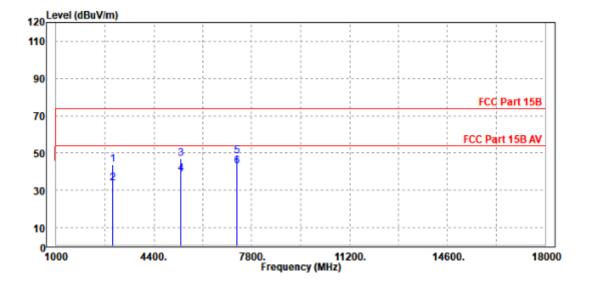
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2955	43.65	48.74	74	-30.35	32.46	8.53	46.08	100	50	Peak	
2955	33.77	38.86	54	-20.23	32.46	8.53	46.08	100	50	Average	
5318	47.12	48	74	-26.88	34.33	11.36	46.57	100	115	Peak	
5318	38.76	39.64	54	-15.24	34.33	11.36	46.57	100	115	Average	
7290	48.14	45.68	74	-25.86	35.56	13.13	46.23	100	80	Peak	
7290	42.95	40.49	54	-11.05	35.56	13.13	46.23	100	80	Average	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

4. Only emissions significantly above equipment noise floor are reported.





TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	Peak/Average, 1 MHz	
TESTED BY	Jace Hu		

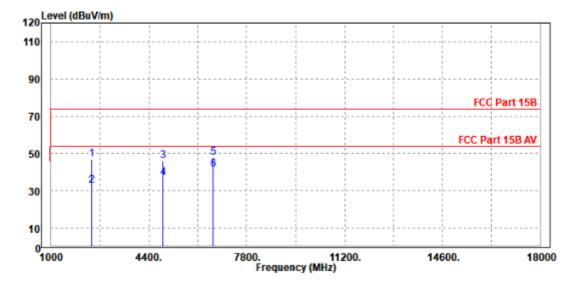
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
2394	46.95	53.51	74	-27.05	31.91	7.74	46.21	100	65	Peak	
2394	33.05	39.61	54	-20.95	31.91	7.74	46.21	100	65	Average	
4876	46.27	47.87	74	-27.73	34.28	10.86	46.74	100	130	Peak	
4876	36.99	38.59	54	-17.01	34.28	10.86	46.74	100	130	Average	
6627	48.04	46.45	74	-25.96	35.67	12.55	46.63	100	180	Peak	
6627	41.34	39.75	54	-12.66	35.67	12.55	46.63	100	180	Average	

**REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

4. Only emissions significantly above equipment noise floor are reported.





## 3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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