



EMC TEST REPORT

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Product:	Mobile Phone
Brand Name:	ΝΟΚΙΑ
Model Name:	TA-1453
FCC ID:	2AJOTTA-1453
Date of tests:	Jan. 28, 2022 ~ Feb. 16, 2022

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 <u>COMPLY</u> with the test requirement

Prepared by Simon Wang	Approved by Luke Lu
Engineer / Mobile Department	Manager / Mobile Department
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Date: Feb. 16, 2022

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No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen51800, China



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22010017-1EM01	Original release	Feb. 16, 2022



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	Mobile Phone		
BRAND NAME	NOKIA			
MODEL NAME	TA-1453			
NOMINAL VOLTAGE	· ·	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)		
MODULATION TYPE	GSM	GMSK		
OPERATING FREQUENCY	GSM 824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)			
HW VERSION	MM61101			
SW VERSION	00.04.10	00.04.10		
I/O PORTS	Refer to user's manua	Refer to user's manual		
CABLE SUPPLIED	N/A			
EXTREME TEMPERATURE	-20-60 ℃			
EXTREME VOLTAGE	3.6V - 4.2V			

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.

3. List of Accessory:

ACCESSORIES BRAND		MANUFACTURER MODEL		SPECIFICATION	
Battery 1 Nokia		Andefeng	BL-L5G Capacity: 3.7 Vdc, 800		
Battery 2 Nokia		Fenghua	BL-L5G	Capacity: 3.7 Vdc, 800mAh	
AC Adapter 1	lapter 1 Nokia Baijunda AC-		AC-18U	I/P: 100-240Vac, 100mA, O/P: 5.0Vdc, 550mA	



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~1GMHz	±4.98dB	
Radiated emissions	1GMHz ~6GMHz	±4.70dB	
	6GMHz ~18GMHz	±4.60dB	



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition		
	Radiated emission test		
1	GSM850 Idle+ Adapter+ SIM+ Earphone		
2	GSM1900 Idle+ Adapter+ SIM+ Earphone		
3	Powered by battery+ Earphone+ LED ON		

	Conducted emission test		
1	GSM850 Idle+ Adapter+ SIM+ Earphone		
2	GSM1900 Idle+ Adapter+ SIM+ Earphone + LED ON		

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	Micro SD	SAM SUNG	N/A	N/A	N/A
2	Universal radio communication tester	Rohde&Schw arz	CMW500	N/A	N/A
3	Earphone	Nokia	HS-34	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	non-shielded cable, with w/o ferrite core, 1.2 meter
2	N/A



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)	MHz) CONDUCTED LIMIT (dBµV)		
	Quasi-peak	Average	
0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	66 to 56 56 60	56 to 46 46 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	Mar. 03,21	Mar. 02, 22
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,21	Feb. 24, 22

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.

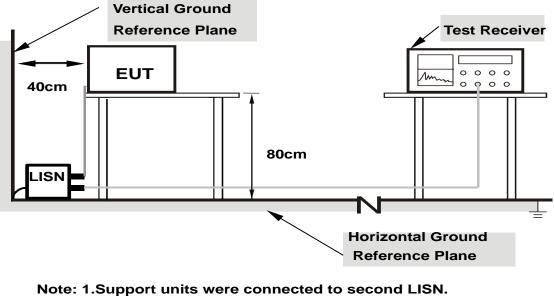
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



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.

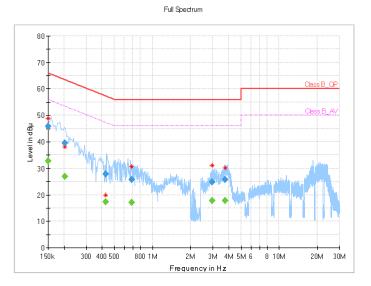


2.1.7 TEST RESULTS

TEST VOLTAGE		Input 120 Vac, 60 Hz		Detector Function & Resolution Bandwidth		Quasi-Peak (QP) / Average (AV), 9 kHz			
ENVIRONMENTAL CONDITIONS		26de	g. C, 51%RH		TEST	ED BY		Carl xie	
Frequency (MHz)QuasiPeak (dBuV)CAverage (dBuV)Limit (dBuV)Margin (dBuV)LineFilter						Corr. (dB)			
0.150000			32.78	56	.00	23.22	L1	ON	9.7
0.150000	45.8	34		66	.00	20.16	L1	ON	9.7
0.204000			26.85	53	.45	26.60	L1	ON	9.7
0.204000	39.5	54		63	.45	23.91	L1	ON	9.7
0.428000			17.20	47	.29	30.09	L1	ON	9.7
0.428000	27.9	94		57	.29	29.35	L1	ON	9.7
0.684000			17.14	46	.00	28.86	L1	ON	9.7
0.684000	25.7	70		56	.00	30.30	L1	ON	9.7
2.952000			17.66	46	.00	28.34	L1	ON	9.7
2.952000	24.8	31		56	.00	31.19	L1	ON	9.7
3.756000			17.87	46	.00	28.13	L1	ON	9.7
3.756000	25.8	33		56	.00	30.17	L1	ON	9.7

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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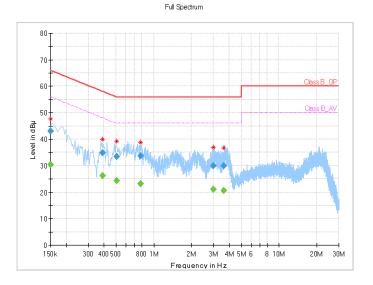


TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		30.47	56.00	25.53	Ν	ON	9.7
0.150000	43.07		66.00	22.93	Ν	ON	9.7
0.392000		26.14	48.02	21.88	Ν	ON	9.7
0.392000	34.86		58.02	23.16	Ν	ON	9.7
0.508000		24.23	46.00	21.77	Ν	ON	9.7
0.508000	33.42		56.00	22.58	Ν	ON	9.7
0.784000		23.06	46.00	22.94	Ν	ON	9.7
0.784000	33.72		56.00	22.28	Ν	ON	9.7
3.004000		20.95	46.00	25.05	Ν	ON	9.8
3.004000	30.03		56.00	25.97	Ν	ON	9.8
3.632000		20.56	46.00	25.44	Ν	ON	9.8
3.632000	30.01		56.00	25.99	Ν	ON	9.8

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)							
FrequenciesFCC 15B / ICES-003,FCC 15B / ICES-003,(MHz)Class AClass 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 th 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	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
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	umahmahm	Euroshieldpn- CT0001143-1216	May. 19,20	May. 18,23			
Horn Antenna	ETS-LINDGREN	3117	00168728	May. 19,20	May. 18,23			
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 22,21	Apr. 21,22			
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 03,21	Jun. 02,22			
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:

- 1. 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.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. 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);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7. Margin value = Emission level Limit value.

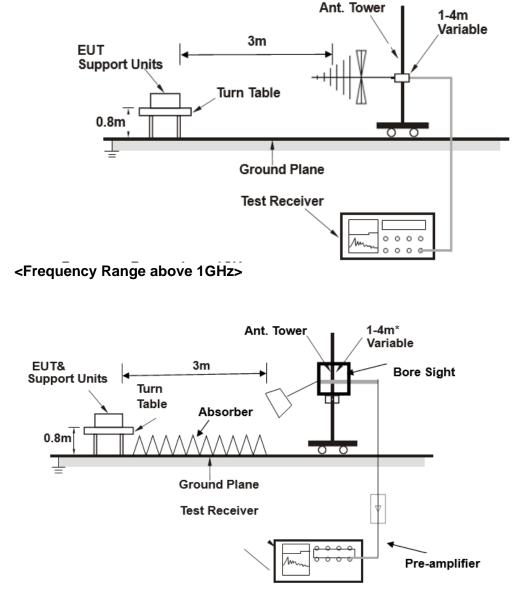
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.



2.2.5 TEST SETUP

<Frequency Range below 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:

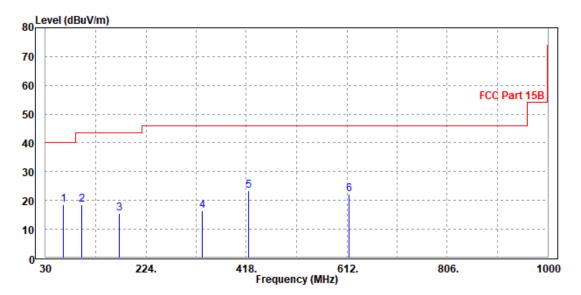
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Jace Hu		

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 PP 2 3 4 5 6	63.950 100.810 172.590 333.610 422.850 615.880	18.54 15.50 16.31 23.31	46.98 41.02 37.16	43.50 43.50 46.00 46.00	-29.69	-28.44 -25.52 -20.85 -18.45	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	Jace Hu		

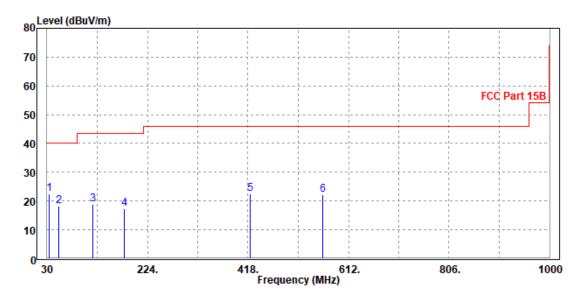
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Kead Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PP	34.850	22.60		40.00				Vertical
2	52.310	18.19	46.35	40.00	-21.81	-28.16	Peak	Vertical
3	118.270	18.78	47.16	43.50	-24.72	-28.38	Peak	Vertical
4	179.380	17.31	42.91	43.50	-26.19	-25.60	Peak	Vertical
5	422.850	22.60	40.73	46.00	-23.40	-18.13	Peak	Vertical
6	562.530	22.05	37.74	46.00	-23.95	-15.69	Peak	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
 The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.



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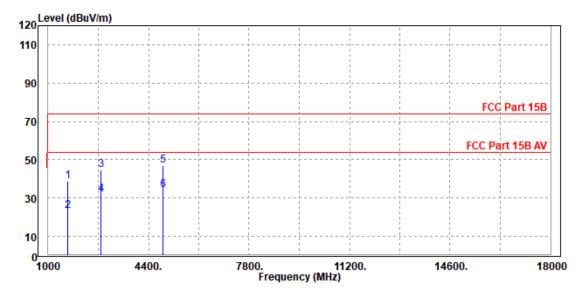
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz	
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Jace Hu			

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level		Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	1663.000	38.97	51.77	74.00	-35.03	-12.80	Peak	Horizontal
2	1663.000	23.16	35.96	54.00	-30.84	-12.80	Average	Horizontal
3	2785.000	44.73	51.77	74.00	-29.27	-7.04	Peak	Horizontal
4	2785.000	31.83	38.87	54.00	-22.17	-7.04	Average	Horizontal
5 PK	4893.000	46.92	50.03	74.00	-27.08	-3.11	Peak	Horizontal
6 PP	4893.000	34.35	37.46	54.00	-19.65	-3.11	Average	Horizontal

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 to18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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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

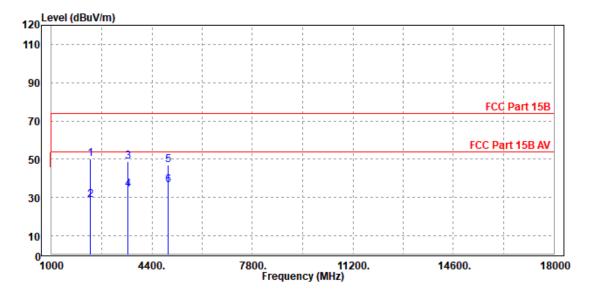
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PK	2326.000	50.39	59.01	74.00	-23.61	-8.62	Peak	Vertical
2	2326.000	28.57	37.19	54.00	-25.43	-8.62	Average	Vertical
3	3601.000	48.71	54.84	74.00	-25.29	-6.13	Peak	Vertical
4	3601.000	34.23	40.36	54.00	-19.77	-6.13	Average	Vertical
5	4961.000	46.95	49.66	74.00	-27.05	-2.71	Peak	Vertical
6 PP	4961.000	36.58	39.29	54.00	-17.42	-2.71	Average	Vertical

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 18GHz.

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



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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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