FCC RF EXPOSURE REPORT

FCC ID: ACJ-SL-G700M2

Project No.	:	2207C092
Equipment	:	NETWORK / SUPER AUDIO CD PLAYER
Brand Name	:	Technics
Test Model	:	SL-G700M2
Series Model	:	N/A
Applicant	:	Panasonic Corporation of North America
Address	:	Two Riverfront Plaza, 9th Floor Newark, New Jersey 07102-5490 United States
Manufacturer	:	Panasonic Corporation of North America
Address	:	Two Riverfront Plaza, 9th Floor Newark, New Jersey 07102-5490 United States
Factory	:	Panasonic AVC Networks Johor Malaysia
Address	:	IE,PLO 460, Jalan Bandar, 81700 Pasir Gudang, Johor, Malaysia
Date of Receipt	:	Jul. 29, 2022
Date of Test	:	Aug. 02, 2022 ~ Sep. 09, 2022
Issued Date	:	Sep. 20, 2022
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2022080148
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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TESTING CERT #5123.02

BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2207C092	R00	Original Report	Sep. 20, 2022	Valid

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.
BTL's Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna:

For BT/LE:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Panasonic Corporation	TNPA7779-1	Dipole	N/A	1.69

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Panasonic Corporation	TNPA7779-1	Dipole	N/A	1.69
2	Panasonic Corporation	TNPA7780-1	Dipole	N/A	1.69

Note:
1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain=G_{ANT}+10log(N)dBi, that is Directional gain=1.69+10log(2)dBi=4.70.
2) The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Panasonic Corporation	TNPA7779-1	Dipole	N/A	2.8
2	Panasonic Corporation	TNPA7780-1	Dipole	N/A	2.8

Note:
1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain=G_{ANT}+10log(N)dBi, that is Directional gain=2.8+10log(2)dBi=5.81.
2) The antenna gain is provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)			
BT	LE	2.4GHz	5GHz
≤5.00	≤6.00	≤16.50	≤17.50

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	5.00	3.1623	0.00093	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	6.00	3.9811	0.00117	1	Complies

For 2.4GHz:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.70	2.9512	16.50	44.6684	0.02624	1	Complies

For 5GHz:

Directional Gain (dBi)	Directional Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
5.81	3.8107	17.50	56.2341	0.04265	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
LE	2.4GHz			
0.00117	0.04265	0.04382	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report