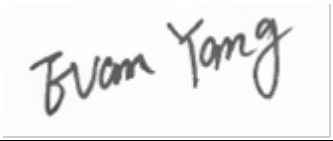
FCC RF EXPOSURE REPORT

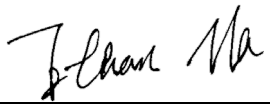
FCC ID: ACJ-SA-C600

Project No.	:	2108C020
Equipment	:	NETWORK CD RECEIVER
Brand Name	:	Technics
Test Model	:	SA-C600
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	:	Aug. 03, 2021
Date of Test	:	Aug. 03, 2021 ~ Sep. 02, 2021
Issued Date	:	Sep. 16, 2021
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2021080397
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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



Prepared by : Evan Yang



Approved by : Ethan Ma

TESTING CERT #5123.02

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Sep. 16, 2021

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, People's Republic of China.
BTL's Test Firm 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	TNPA7567-1	PCB	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	TNPA7567-1	PCB	N/A	1.69
2	Panasonic Corporation	TNPA7568-1	PCB	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 and beamforming gain are provided by the manufacturer.

For 5GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	Panasonic Corporation	TNPA7567-1	PCB	N/A	2.8
2	Panasonic Corporation	TNPA7568-1	PCB	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 and beamforming gain are provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)						
BT	LE	2.4GHz	5GHz UNII-1	5GHz UNII-2A	5GHz UNII-2C	5GHz UNII-3
4.00	3.50	27.50	17.00	17.00	17.00	17.00

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	4.00	2.5119	0.00074	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	3.50	2.2387	0.00066	1	Complies

For 2.4GHz:

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
4.70	2.9512	27.50	562.3413	0.33033	1	Complies

For 5GHz UNII-1:

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
5.81	3.8107	17.00	50.1187	0.03801	1	Complies

For 5GHz UNII-2A:

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
5.81	3.8107	17.00	50.1187	0.03801	1	Complies

For 5GHz UNII-2C:

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
5.81	3.8107	17.00	50.1187	0.03801	1	Complies

For 5GHz UNII-3:

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
5.81	3.8107	17.00	50.1187	0.03801	1	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm^2)	Power Density (S) (mW/cm^2)	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
BT	2.4GHz			
0.00074	0.33033	0.33107	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report