



RF EXPOSURE EVALUATION REPORT

APPLICANT : Crestron Electronics Inc.

PRODUCT NAME : Crestron Video Bar

MODEL NAME : M202108007

BRAND NAME : CRESTRON

FCC ID : EROM202108007

STANDARD(S) : 47 CFR Part 2(2.1091)

RECEIPT DATE : 2023-05-16

TEST DATE : 2023-05-24 to 2023-08-25

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Edited by:

Peng Mi

Peng Mi (Rapporteur)

Approved by:

Shen Junsheng

Shen Junsheng (Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2023-09-07	First edition



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Crestron Electronics Inc.
Applicant Address:	15 Volvo Drive, Rockleigh, NJ 07647, USA
Manufacturer:	Crestron Electronics Inc.
Manufacturer Address:	15 Volvo Drive, Rockleigh, NJ 07647, USA

1.2 Equipment under Test (EUT) Description

Product Name:	Crestron Video Bar	
Sample No.:	1#	
Hardware Version:	V0.2	
Software Version:	QCS8250.LA.1.1-00057-STD.PROD-1_asci_2023-07-06	
Frequency Bands:	Bluetooth	2402MHz-2480MHz
	WLAN 2.4GHz	2412MHz-2462MHz
	WLAN 5GHz	5180MHz-5240MHz; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz
Modulation Mode:	Bluetooth	GFSK(1Mbps), $\pi/4$ -DQPSK(EDR 2Mbps), 8-DPSK(EDR 3Mbps)
	WLAN 2.4GHz	DSSS, OFDM, OFDMA
	WLAN 5GHz	OFDM, OFDMA
Antenna Information:	Bluetooth	
	Antenna Type:	FPC Antenna
	Antenna Gain:	1.43dBi
	WLAN 2.4GHz	
	Antenna Type:	FPC Antenna
	Antenna Gain:	ANT 1: 1.43dBi; ANT 2: 1.34dBi
	WLAN 5GHz	
	Antenna Type:	FPC Antenna
Antenna Gain:	ANT 1: 1.40dBi; ANT 2: 1.44dBi	



1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method Determination /Remark
47 CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	No deviation
KDB 447498 D01v06	General RF Exposure Guidance	No deviation
<p>Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.</p> <p>Note 2: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.</p>		



2. Device Category and RF Exposure Limit

Per user manual, based on 47 CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47 CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1 Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz* = Plane-wave equivalent power density



3. RF Output Power

Mode	Channel	Frequency (MHz)	Average Power (dBm)
			GFSK
Bluetooth LE (1Mbps)	CH 00	2402	5.09
	CH 19	2440	5.31
	CH 39	2480	5.27
Tune-up Limit			6.50
Bluetooth LE (2Mbps)	CH 00	2402	5.52
	CH 19	2440	5.74
	CH 39	2480	5.96
Tune-up Limit			6.50

Mode	Channel	Frequency (MHz)	Average Power (dBm)		
			GFSK	$\pi/4$ -DQPSK	8-DPSK
Bluetooth Classic	CH 00	2402	-3.11	-5.71	-6.17
	CH 39	2441	7.24	4.79	3.94
	CH 78	2480	7.43	4.61	4.85
Tune-up Limit			8.00	5.50	5.50



WLAN 2.4GHz					
Mode	Frequency (MHz)	Antenna	Total Conducted Power (dBm)	Tune-up Power	Duty Cycle (%)
b	2412	Ant1	17.54	18.50	100
b	2412	Ant2	17.54	18.50	100
b	2437	Ant1	17.52	18.50	100
b	2437	Ant2	17.7	18.50	100
b	2462	Ant1	17.32	18.50	100
b	2462	Ant2	17.86	18.50	100
g	2412	Ant1	15.94	16.50	99.2
g	2412	Ant2	15.91	16.50	99.2
g	2437	Ant1	15.92	16.50	99.2
g	2437	Ant2	15.25	16.50	99.2
g	2462	Ant1	15.91	16.50	99.2
g	2462	Ant2	15.36	16.50	99.2
n20	2412	Ant1	13.73	14.50	99.71
n20	2412	Ant2	13.77	14.50	99.71
n20	2412	Ant1	13.31	14.50	99.71
n20	2412	Ant2	13.22	14.50	99.71
n20	2412	Sum	16.28	17.00	99.71
n20	2437	Ant1	13.7	14.50	99.71
n20	2437	Ant2	13.53	14.50	99.71
n20	2437	Ant1	13.17	14.50	99.71
n20	2437	Ant2	13.38	14.50	99.71
n20	2437	Sum	16.29	17.00	99.71
n20	2462	Ant1	13.69	14.50	99.71
n20	2462	Ant2	13.62	14.50	99.71
n20	2462	Ant1	13.18	14.50	99.71
n20	2462	Ant2	13.64	14.50	99.71
n20	2462	Sum	16.43	17.00	99.71
n40	2422	Ant1	11.95	13.00	99.74
n40	2422	Ant2	12.86	14.00	99.74
n40	2422	Ant1	13.19	14.50	99.71
n40	2422	Ant2	13.51	14.50	99.71
n40	2422	Sum	16.36	17.00	99.71
n40	2437	Ant1	13.36	14.50	99.71
n40	2437	Ant2	13.66	14.50	99.71
n40	2437	Ant1	13.21	14.50	99.71



n40	2437	Ant2	13.54	14.50	99.71
n40	2437	Sum	16.39	17.00	99.71
n40	2452	Ant1	13.34	14.50	99.71
n40	2452	Ant2	13.59	14.50	99.71
n40	2452	Ant1	13.1	14.50	99.71
n40	2452	Ant2	13.61	14.50	99.71
n40	2452	Sum	16.37	17.00	99.71
ax20	2412	Ant1	11.94	12.50	99.71
ax20	2412	Ant2	11.43	12.50	99.71
ax20	2412	Ant1	11.38	12.50	99.71
ax20	2412	Ant2	11.45	12.50	99.71
ax20	2412	Sum	14.42	15.00	99.71
ax20	2437	Ant1	11.93	12.50	99.71
ax20	2437	Ant2	11.63	12.50	99.71
ax20	2437	Ant1	11.34	12.50	99.71
ax20	2437	Ant2	11.48	12.50	99.71
ax20	2437	Sum	14.42	15.00	99.71
ax20	2462	Ant1	11.89	12.50	99.71
ax20	2462	Ant2	11.78	12.50	99.71
ax20	2462	Ant1	11.32	12.50	99.71
ax20	2462	Ant2	11.66	12.50	99.71
ax20	2462	Sum	14.5	15.00	99.71
ax40	2422	Ant1	11.22	12.50	99.71
ax40	2422	Ant2	11.35	12.50	99.71
ax40	2422	Ant1	11.67	12.50	99.71
ax40	2422	Ant2	11.83	12.50	99.71
ax40	2422	Sum	14.76	15.00	99.71
ax40	2437	Ant1	11.34	12.50	99.74
ax40	2437	Ant2	11.43	12.50	99.71
ax40	2437	Ant1	11.66	12.50	99.71
ax40	2437	Ant2	11.95	12.50	99.71
ax40	2437	Sum	14.82	15.00	99.71
ax40	2452	Ant1	11.14	12.50	99.71
ax40	2452	Ant2	11.45	12.50	99.71
ax40	2452	Ant1	11.33	12.50	99.71
ax40	2452	Ant2	11.99	12.50	99.71
ax40	2452	Sum	14.68	15.00	99.71
ax20 26@0	2412	Ant1	11.65	12.50	99.69



ax20 26@0	2412	Ant2	12.6	13.50	99.69
ax20 26@0	2412	Ant1	11.01	12.50	99.69
ax20 26@0	2412	Ant2	12.89	14.00	99.69
ax20 26@0	2412	Sum	15.06	15.50	99.69
ax20 26@4	2437	Ant1	11.02	12.00	99.69
ax20 26@4	2437	Ant2	12.88	13.50	99.69
ax20 26@4	2437	Ant1	11.02	12.50	99.69
ax20 26@4	2437	Ant2	12.73	13.50	99.69
ax20 26@4	2437	Sum	14.97	15.50	99.69
ax20 26@8	2462	Ant1	11.28	12.00	99.69
ax20 26@8	2462	Ant2	13.4	15.00	99.69
ax20 26@8	2462	Ant1	11.09	12.00	99.69
ax20 26@8	2462	Ant2	13.26	14.00	99.69
ax20 26@8	2462	Sum	15.32	16.00	99.69
ax20 52@37	2412	Ant1	12.29	13.00	99.69
ax20 52@37	2412	Ant2	12.75	13.50	99.69
ax20 52@37	2412	Ant1	12.19	13.00	99.69
ax20 52@37	2412	Ant2	13.08	14.00	99.69
ax20 52@37	2412	Sum	15.67	16.50	99.69
ax20 52@38	2437	Ant1	11.93	12.50	99.69
ax20 52@38	2437	Ant2	12.75	13.50	99.69
ax20 52@38	2437	Ant1	11.94	13.00	99.69
ax20 52@38	2437	Ant2	12.63	13.50	99.69
ax20 52@38	2437	Sum	15.31	16.00	99.69
ax20 52@40	2462	Ant1	12.29	13.00	99.69
ax20 52@40	2462	Ant2	13.47	14.00	99.69
ax20 52@40	2462	Ant1	12.35	13.00	99.69
ax20 52@40	2462	Ant2	13.33	14.00	99.69
ax20 52@40	2462	Sum	15.88	16.50	99.69
ax20 106@53	2412	Ant1	12.3	13.00	99.67
ax20 106@53	2412	Ant2	12.7	13.50	99.67
ax20 106@53	2412	Ant1	12.24	13.00	99.67
ax20 106@53	2412	Ant2	12.96	13.50	99.67
ax20 106@53	2412	Sum	15.63	16.50	99.67
ax20 106@54	2462	Ant1	12.37	13.00	99.67
ax20 106@54	2462	Ant2	13.32	14.00	99.67
ax20 106@54	2462	Ant1	12.4	13.00	99.67
ax20 106@54	2462	Ant2	13.19	14.00	99.67



ax20 106@54	2462	Sum	15.82	16.50	99.67
ax40 26@0	2422	Ant1	12.89	13.50	99.69
ax40 26@0	2422	Ant2	13.13	14.00	99.69
ax40 26@0	2422	Ant1	12.75	13.50	99.69
ax40 26@0	2422	Ant2	13.51	14.00	99.69
ax40 26@0	2422	Sum	16.16	17.00	99.69
ax40 26@8	2437	Ant1	12.07	13.00	99.73
ax40 26@8	2437	Ant2	12.92	13.50	99.69
ax40 26@8	2437	Ant1	12.03	13.00	99.69
ax40 26@8	2437	Ant2	12.74	13.50	99.69
ax40 26@8	2437	Sum	15.41	16.00	99.69
ax40 26@17	2452	Ant1	12.25	13.00	99.69
ax40 26@17	2452	Ant2	13.24	14.00	99.69
ax40 26@17	2452	Ant1	12.35	13.00	99.73
ax40 26@17	2452	Ant2	13.15	14.00	99.73
ax40 26@17	2452	Sum	15.78	16.50	99.73
ax40 52@37	2422	Ant1	12.98	13.50	99.69
ax40 52@37	2422	Ant2	13.4	14.00	99.69
ax40 52@37	2422	Ant1	12.93	13.50	99.69
ax40 52@37	2422	Ant2	13.65	14.50	99.69
ax40 52@37	2422	Sum	16.32	17.00	99.69
ax40 52@40	2437	Ant1	12.01	13.00	99.69
ax40 52@40	2437	Ant2	12.93	13.50	99.73
ax40 52@40	2437	Ant1	12.06	13.00	99.69
ax40 52@40	2437	Ant2	12.78	13.50	99.69
ax40 52@40	2437	Sum	15.45	16.00	99.69
ax40 52@44	2452	Ant1	12.41	13.00	99.69
ax40 52@44	2452	Ant2	13.43	14.00	99.69
ax40 52@44	2452	Ant1	12.47	13.00	99.69
ax40 52@44	2452	Ant2	13.31	14.00	99.69
ax40 52@44	2452	Sum	15.92	16.50	99.69
ax40 106@53	2422	Ant1	13.21	14.00	99.67
ax40 106@53	2422	Ant2	13.45	14.00	99.71
ax40 106@53	2422	Ant1	13.11	14.00	99.67
ax40 106@53	2422	Ant2	13.69	14.50	99.67
ax40 106@53	2422	Sum	16.42	17.00	99.67
ax40 106@54	2437	Ant1	12.01	13.00	99.71
ax40 106@54	2437	Ant2	12.7	13.50	99.67



ax40 106@54	2437	Ant1	12.01	13.00	99.67
ax40 106@54	2437	Ant2	12.62	13.50	99.67
ax40 106@54	2437	Sum	15.34	16.00	99.67
ax40 106@56	2452	Ant1	12.6	13.50	99.71
ax40 106@56	2452	Ant2	13.4	14.00	99.67
ax40 106@56	2452	Ant1	12.65	13.50	99.67
ax40 106@56	2452	Ant2	13.27	14.00	99.67
ax40 106@56	2452	Sum	15.98	16.50	99.67
ax40 242@61	2422	Ant1	11.91	13.00	99.66
ax40 242@61	2422	Ant2	14.09	13.00	99.66
ax40 242@61	2422	Ant1	13.03	14.00	99.7
ax40 242@61	2422	Ant2	13.7	14.50	99.7
ax40 242@61	2422	Sum	16.39	17.00	99.7
ax40 242@62	2452	Ant1	11.97	13.00	99.66
ax40 242@62	2452	Ant2	13.85	15.00	99.66
ax40 242@62	2452	Ant1	12.42	13.00	99.66
ax40 242@62	2452	Ant2	13.04	14.00	99.66
ax40 242@62	2452	Sum	15.75	16.50	99.66



WLAN 5GHz					
Mode	Frequency (MHz)	Antenna	Total Conducted Power (dBm)	Tune-up Power	Duty Cycle (%)
a	5180	Ant1	16.29	17.00	99.2
a	5180	Ant2	16.34	17.00	99.2
a	5220	Ant1	16.33	17.00	99.1
a	5220	Ant2	16.48	17.00	99.1
a	5240	Ant1	16.75	17.50	99.2
a	5240	Ant2	16.39	17.00	99.2
a	5260	Ant1	16.97	17.50	99.1
a	5260	Ant2	16.21	17.00	99.2
a	5300	Ant1	16.56	17.00	99.2
a	5300	Ant2	15.7	17.00	99.2
a	5320	Ant1	16.19	17.00	99.2
a	5320	Ant2	15.93	17.00	99.2
a	5500	Ant1	16.32	17.00	99.1
a	5500	Ant2	16.51	17.00	99.2
a	5580	Ant1	15.78	17.00	99.2
a	5580	Ant2	16.01	17.00	99.1
a	5600	Ant1	16.37	17.00	99.1
a	5600	Ant2	16.82	17.50	99.1
a	5720	Ant1	15.35	16.00	99.1
a	5720	Ant2	16.61	17.50	99.2
a	5745	Ant1	15.29	16.00	99.2
a	5745	Ant2	16.5	17.00	99.1
a	5785	Ant1	15.27	16.00	99.1
a	5785	Ant2	16.42	17.00	99.2
a	5825	Ant1	15.59	16.50	99.1
a	5825	Ant2	16.55	17.50	99.1
n20	5180	Ant1	14.64	15.50	99.67
n20	5180	Ant2	14.14	15.00	92.82
n20	5180	Ant1	14.61	15.50	99.71
n20	5180	Ant2	13.84	14.50	99.71
n20	5180	Sum	17.25	18.00	99.71
n20	5220	Ant1	14.68	15.50	93.39
n20	5220	Ant2	14.21	15.00	99.71
n20	5220	Ant1	14.65	15.50	93.23
n20	5220	Ant2	13.97	14.50	93.23



n20	5220	Sum	17.33	18.00	93.23
n20	5240	Ant1	14.5	15.00	93.52
n20	5240	Ant2	14.31	15.00	99.71
n20	5240	Ant1	14.5	15.00	99.67
n20	5240	Ant2	13.87	14.50	99.67
n20	5240	Sum	17.21	18.00	99.67
n20	5260	Ant1	14.69	15.50	99.67
n20	5260	Ant2	14.12	15.00	99.67
n20	5260	Ant1	14.58	15.50	99.71
n20	5260	Ant2	13.68	15.00	99.71
n20	5260	Sum	17.16	18.00	99.71
n20	5300	Ant1	14.32	15.00	99.67
n20	5300	Ant2	13.55	14.50	99.67
n20	5300	Ant1	14.15	15.00	91.53
n20	5300	Ant2	13.12	14.00	91.53
n20	5300	Sum	16.68	17.50	91.53
n20	5320	Ant1	13.99	14.50	99.67
n20	5320	Ant2	13.77	14.50	99.67
n20	5320	Ant1	13.79	14.50	99.71
n20	5320	Ant2	13.35	14.00	99.71
n20	5320	Sum	16.59	17.50	99.71
n20	5500	Ant1	14.1	15.00	99.67
n20	5500	Ant2	14.49	15.00	99.67
n20	5500	Ant1	13.81	15.00	99.71
n20	5500	Ant2	14.11	15.00	99.71
n20	5500	Sum	16.97	17.50	99.71
n20	5580	Ant1	13.63	14.50	99.67
n20	5580	Ant2	14.95	15.50	99.67
n20	5580	Ant1	13.34	14.00	99.67
n20	5580	Ant2	14.61	15.50	99.67
n20	5580	Sum	17.03	18.00	99.67
n20	5600	Ant1	14.21	15.00	99.67
n20	5600	Ant2	14.73	15.50	99.71
n20	5600	Ant1	13.91	14.50	99.67
n20	5600	Ant2	14.5	15.50	99.67
n20	5600	Sum	17.23	18.00	99.67
n20	5720	Ant1	13.24	14.00	99.67
n20	5720	Ant2	14.52	15.50	99.71



n20	5720	Ant1	12.93	13.50	99.71
n20	5720	Ant2	14.42	15.00	99.71
n20	5720	Sum	16.75	17.50	99.71
n20	5745	Ant1	13.19	14.00	99.67
n20	5745	Ant2	14.41	15.00	99.67
n20	5745	Ant1	12.87	13.50	99.67
n20	5745	Ant2	14.34	15.00	99.67
n20	5745	Sum	16.68	17.50	99.67
n20	5785	Ant1	13.14	14.00	99.71
n20	5785	Ant2	14.28	15.00	99.67
n20	5785	Ant1	12.91	13.50	99.67
n20	5785	Ant2	14.27	15.00	99.67
n20	5785	Sum	16.65	17.50	99.67
n20	5825	Ant1	13.45	14.00	99.71
n20	5825	Ant2	14.5	15.50	99.71
n20	5825	Ant1	13.2	14.00	99.67
n20	5825	Ant2	14.48	15.00	99.67
n20	5825	Sum	16.9	17.50	99.67
n40	5190	Ant1	14.61	15.50	93.26
n40	5190	Ant2	14.63	15.50	99.71
n40	5190	Ant1	11.98	13.00	92.69
n40	5190	Ant2	12.47	13.50	92.69
n40	5190	Sum	15.24	16.00	92.69
n40	5230	Ant1	14.61	15.50	99.67
n40	5230	Ant2	14.57	15.50	99.71
n40	5230	Ant1	14.78	15.50	99.71
n40	5230	Ant2	14.31	15.00	99.71
n40	5230	Sum	17.56	18.50	99.71
n40	5270	Ant1	14.65	15.50	99.67
n40	5270	Ant2	14.36	15.00	99.71
n40	5270	Ant1	14.65	15.50	99.71
n40	5270	Ant2	14	15.50	99.71
n40	5270	Sum	17.35	18.00	99.71
n40	5310	Ant1	14.34	15.00	99.71
n40	5310	Ant2	13.91	14.50	99.71
n40	5310	Ant1	14.21	15.00	99.67
n40	5310	Ant2	13.49	14.00	99.67
n40	5310	Sum	16.88	17.50	99.67



n40	5510	Ant1	14.23	15.00	99.71
n40	5510	Ant2	14.76	15.50	99.71
n40	5510	Ant1	13.97	14.50	99.71
n40	5510	Ant2	14.5	15.50	99.71
n40	5510	Sum	17.25	18.00	99.71
n40	5550	Ant1	13.84	14.50	99.71
n40	5550	Ant2	14.96	15.50	99.71
n40	5550	Ant1	13.56	14.50	99.71
n40	5550	Ant2	14.53	13.50	99.71
n40	5550	Sum	17.08	18.00	99.71
n40	5630	Ant1	14.48	15.00	99.71
n40	5630	Ant2	14.92	15.50	99.71
n40	5630	Ant1	14.24	15.00	99.71
n40	5630	Ant2	14.83	15.50	99.71
n40	5630	Sum	17.55	18.50	99.71
n40	5710	Ant1	13.78	14.50	99.71
n40	5710	Ant2	14.67	15.50	99.71
n40	5710	Ant1	13.49	14.00	99.71
n40	5710	Ant2	14.66	15.50	99.71
n40	5710	Sum	17.12	18.00	99.71
n40	5755	Ant1	13.71	14.50	99.71
n40	5755	Ant2	14.65	15.50	99.67
n40	5755	Ant1	13.38	14.00	99.71
n40	5755	Ant2	14.72	15.50	99.71
n40	5755	Sum	17.11	18.00	99.71
n40	5795	Ant1	13.63	14.50	99.67
n40	5795	Ant2	14.67	15.50	99.67
n40	5795	Ant1	13.31	14.00	99.67
n40	5795	Ant2	14.83	15.50	99.67
n40	5795	Sum	17.15	18.00	99.67
ac20	5180	Ant1	13.5	14.50	99.71
ac20	5180	Ant2	13.22	14.00	99.67
ac20	5180	Ant1	13.48	14.00	99.71
ac20	5180	Ant2	12.88	13.50	99.71
ac20	5180	Sum	16.2	17.00	99.71
ac20	5220	Ant1	13.63	14.50	99.67
ac20	5220	Ant2	13.28	14.00	99.67
ac20	5220	Ant1	13.52	14.50	99.67



ac20	5220	Ant2	12.93	13.50	99.67
ac20	5220	Sum	16.24	17.00	99.67
ac20	5240	Ant1	13.41	14.00	99.71
ac20	5240	Ant2	13.29	14.00	91.81
ac20	5240	Ant1	13.31	14.00	99.67
ac20	5240	Ant2	12.94	13.50	99.67
ac20	5240	Sum	16.14	17.00	99.67
ac20	5260	Ant1	13.56	14.50	99.67
ac20	5260	Ant2	13.09	14.00	99.71
ac20	5260	Ant1	13.47	14.00	99.71
ac20	5260	Ant2	12.7	13.50	99.71
ac20	5260	Sum	16.11	17.00	99.71
ac20	5300	Ant1	13.3	14.00	99.71
ac20	5300	Ant2	12.65	13.50	99.71
ac20	5300	Ant1	13.08	14.00	99.71
ac20	5300	Ant2	12.27	13.00	99.71
ac20	5300	Sum	15.7	16.50	99.71
ac20	5320	Ant1	12.92	13.50	99.71
ac20	5320	Ant2	12.78	13.50	99.67
ac20	5320	Ant1	12.67	13.50	99.71
ac20	5320	Ant2	12.46	13.00	99.71
ac20	5320	Sum	15.58	16.50	99.71
ac20	5500	Ant1	13.11	14.00	99.67
ac20	5500	Ant2	13.56	14.50	99.67
ac20	5500	Ant1	12.74	13.50	99.67
ac20	5500	Ant2	13.31	14.00	99.67
ac20	5500	Sum	16.04	17.00	99.67
ac20	5580	Ant1	12.6	13.50	99.67
ac20	5580	Ant2	13.08	14.00	99.67
ac20	5580	Ant1	12.29	13.00	99.67
ac20	5580	Ant2	13.72	14.50	99.67
ac20	5580	Sum	16.07	17.00	99.67
ac20	5600	Ant1	13.19	14.00	99.67
ac20	5600	Ant2	13.74	14.50	99.67
ac20	5600	Ant1	12.9	13.50	99.67
ac20	5600	Ant2	13.53	14.50	99.67
ac20	5600	Sum	16.24	17.00	99.67
ac20	5720	Ant1	12.49	13.00	99.67



ac20	5720	Ant2	13.58	14.50	99.67
ac20	5720	Ant1	12.12	13.00	99.71
ac20	5720	Ant2	13.56	14.50	99.71
ac20	5720	Sum	15.91	16.50	99.71
ac20	5745	Ant1	12.28	13.00	99.67
ac20	5745	Ant2	13.45	14.00	99.67
ac20	5745	Ant1	12.04	13.00	99.71
ac20	5745	Ant2	13.45	14.00	99.71
ac20	5745	Sum	15.81	16.50	99.71
ac20	5785	Ant1	12.21	13.00	99.71
ac20	5785	Ant2	13.38	14.00	99.67
ac20	5785	Ant1	11.91	12.50	93.36
ac20	5785	Ant2	13.4	14.00	93.36
ac20	5785	Sum	15.73	16.50	93.36
ac20	5825	Ant1	12.54	13.50	99.67
ac20	5825	Ant2	13.57	14.50	99.67
ac20	5825	Ant1	12.17	13.00	99.67
ac20	5825	Ant2	13.59	14.50	99.67
ac20	5825	Sum	15.95	16.50	99.67
ac40	5190	Ant1	13.65	14.50	99.67
ac40	5190	Ant2	13.54	14.50	99.67
ac40	5190	Ant1	13.7	14.50	99.71
ac40	5190	Ant2	13.35	14.00	99.71
ac40	5190	Sum	16.54	17.50	99.71
ac40	5230	Ant1	13.65	14.50	99.71
ac40	5230	Ant2	13.49	14.00	99.67
ac40	5230	Ant1	13.69	14.50	99.71
ac40	5230	Ant2	13.31	14.00	99.71
ac40	5230	Sum	16.51	17.50	99.71
ac40	5270	Ant1	13.57	14.50	99.71
ac40	5270	Ant2	13.35	14.00	91.41
ac40	5270	Ant1	13.56	14.50	99.67
ac40	5270	Ant2	13.11	14.00	99.67
ac40	5270	Sum	16.35	17.00	99.67
ac40	5310	Ant1	13.28	14.00	99.71
ac40	5310	Ant2	12.83	13.50	99.71
ac40	5310	Ant1	13.32	14.00	99.71
ac40	5310	Ant2	12.57	13.50	99.71



ac40	5310	Sum	15.97	16.50	99.71
ac40	5510	Ant1	13.22	14.00	99.71
ac40	5510	Ant2	13.71	14.50	99.71
ac40	5510	Ant1	12.98	13.50	99.71
ac40	5510	Ant2	13.49	14.00	99.71
ac40	5510	Sum	16.25	17.00	99.71
ac40	5550	Ant1	12.94	13.50	99.71
ac40	5550	Ant2	13.11	14.00	91.29
ac40	5550	Ant1	12.55	13.50	99.71
ac40	5550	Ant2	13.57	14.50	99.71
ac40	5550	Sum	16.1	17.00	99.71
ac40	5630	Ant1	13.46	14.00	99.71
ac40	5630	Ant2	13.83	14.50	99.67
ac40	5630	Ant1	13.26	14.00	99.67
ac40	5630	Ant2	13.72	14.50	99.67
ac40	5630	Sum	16.51	17.50	99.67
ac40	5710	Ant1	12.74	13.50	99.71
ac40	5710	Ant2	13.73	14.50	99.71
ac40	5710	Ant1	12.55	13.50	99.71
ac40	5710	Ant2	13.72	14.50	99.71
ac40	5710	Sum	16.18	15.00	99.71
ac40	5755	Ant1	12.69	13.50	99.67
ac40	5755	Ant2	13.67	14.50	99.71
ac40	5755	Ant1	12.42	13.00	99.67
ac40	5755	Ant2	13.74	14.50	99.67
ac40	5755	Sum	16.14	17.00	99.67
ac40	5795	Ant1	12.56	13.50	99.71
ac40	5795	Ant2	13.64	14.50	99.71
ac40	5795	Ant1	12.34	13.00	99.71
ac40	5795	Ant2	13.74	14.50	99.71
ac40	5795	Sum	16.11	15.00	99.71
ac80	5210	Ant1	12.82	13.50	99.71
ac80	5210	Ant2	12.72	13.50	99.71
ac80	5210	Ant1	10.09	11.00	99.67
ac80	5210	Ant2	10.73	12.00	99.67
ac80	5210	Sum	13.43	14.00	99.67
ac80	5290	Ant1	12.46	13.00	99.71
ac80	5290	Ant2	12.2	13.00	92.82



ac80	5290	Ant1	12.5	13.50	99.67
ac80	5290	Ant2	11.89	12.50	99.67
ac80	5290	Sum	15.22	16.00	99.67
ac80	5530	Ant1	12.39	13.00	99.71
ac80	5530	Ant2	12.91	13.50	99.67
ac80	5530	Ant1	12.2	13.00	99.71
ac80	5530	Ant2	12.66	13.50	99.71
ac80	5530	Sum	15.45	16.00	99.71
ac80	5610	Ant1	12.44	13.00	99.71
ac80	5610	Ant2	13.2	14.00	99.71
ac80	5610	Ant1	12.21	13.00	99.71
ac80	5610	Ant2	12.91	13.50	99.71
ac80	5610	Sum	15.58	16.50	99.71
ac80	5690	Ant1	12.11	13.00	99.71
ac80	5690	Ant2	13.09	14.00	99.71
ac80	5690	Ant1	11.92	12.20	99.71
ac80	5690	Ant2	12.98	13.50	99.71
ac80	5690	Sum	15.49	16.00	99.71
ac80	5775	Ant1	11.74	12.50	99.71
ac80	5775	Ant2	12.88	13.50	99.71
ac80	5775	Ant1	11.68	12.50	99.71
ac80	5775	Ant2	12.88	13.50	99.71
ac80	5775	Sum	15.33	16.00	99.71
ax20	5180	Ant1	12.64	13.50	99.67
ax20	5180	Ant2	12.49	13.00	99.67
ax20	5180	Ant1	12.88	13.50	99.71
ax20	5180	Ant2	12.53	13.50	99.71
ax20	5180	Sum	15.72	14.50	99.71
ax20	5220	Ant1	12.78	13.40	99.71
ax20	5220	Ant2	12.49	13.00	99.67
ax20	5220	Ant1	12.72	13.50	99.67
ax20	5220	Ant2	12.3	13.00	99.67
ax20	5220	Sum	15.53	16.50	99.67
ax20	5240	Ant1	12.67	13.50	99.67
ax20	5240	Ant2	12.45	13.00	99.67
ax20	5240	Ant1	12.55	13.50	99.67
ax20	5240	Ant2	12.21	13.00	99.67
ax20	5240	Sum	15.39	14.00	99.67



ax20	5260	Ant1	12.78	13.50	99.71
ax20	5260	Ant2	12.25	13.00	99.67
ax20	5260	Ant1	12.68	13.50	93.41
ax20	5260	Ant2	11.96	12.50	93.41
ax20	5260	Sum	15.35	16.00	93.41
ax20	5300	Ant1	12.49	13.00	99.67
ax20	5300	Ant2	11.84	12.50	99.67
ax20	5300	Ant1	12.42	13.00	99.71
ax20	5300	Ant2	11.56	12.50	99.71
ax20	5300	Sum	15.02	16.00	99.71
ax20	5320	Ant1	12.2	13.00	99.67
ax20	5320	Ant2	12.04	13.00	99.67
ax20	5320	Ant1	12.05	13.00	99.71
ax20	5320	Ant2	11.73	12.50	99.71
ax20	5320	Sum	14.9	15.50	99.71
ax20	5500	Ant1	12.3	13.00	99.67
ax20	5500	Ant2	12.71	13.50	99.67
ax20	5500	Ant1	12.06	13.00	93.25
ax20	5500	Ant2	12.44	13.00	93.25
ax20	5500	Sum	15.26	16.00	93.25
ax20	5580	Ant1	11.94	12.50	99.67
ax20	5580	Ant2	12.27	13.00	99.71
ax20	5580	Ant1	11.71	12.50	99.67
ax20	5580	Ant2	12.72	13.50	99.67
ax20	5580	Sum	15.25	16.00	99.67
ax20	5600	Ant1	12.41	13.00	99.67
ax20	5600	Ant2	12.84	13.50	99.67
ax20	5600	Ant1	12.18	13.00	99.67
ax20	5600	Ant2	12.55	13.50	99.67
ax20	5600	Sum	15.38	16.00	99.67
ax20	5720	Ant1	11.77	12.50	91.28
ax20	5720	Ant2	12.73	13.50	99.67
ax20	5720	Ant1	11.53	12.50	93.25
ax20	5720	Ant2	12.67	13.50	93.25
ax20	5720	Sum	15.15	16.00	93.25
ax20	5745	Ant1	11.71	12.50	99.67
ax20	5745	Ant2	12.58	13.50	92.96
ax20	5745	Ant1	11.51	12.50	99.71



ax20	5745	Ant2	12.54	13.50	99.71
ax20	5745	Sum	15.07	16.00	99.71
ax20	5785	Ant1	11.62	12.50	99.67
ax20	5785	Ant2	12.6	13.50	99.71
ax20	5785	Ant1	11.42	12.00	99.71
ax20	5785	Ant2	12.58	13.50	99.71
ax20	5785	Sum	15.05	16.00	99.71
ax20	5825	Ant1	11.73	12.50	99.71
ax20	5825	Ant2	12.64	13.50	99.67
ax20	5825	Ant1	11.54	12.50	93.12
ax20	5825	Ant2	12.67	13.50	93.12
ax20	5825	Sum	15.15	16.00	93.12
ax40	5190	Ant1	12.61	13.50	99.71
ax40	5190	Ant2	12.5	13.50	99.71
ax40	5190	Ant1	12.63	13.50	99.71
ax40	5190	Ant2	12.21	13.00	99.71
ax40	5190	Sum	15.44	16.00	99.71
ax40	5230	Ant1	12.58	13.50	99.67
ax40	5230	Ant2	12.5	13.50	99.71
ax40	5230	Ant1	12.53	13.50	99.71
ax40	5230	Ant2	12.21	13.00	99.71
ax40	5230	Sum	15.38	16.00	99.71
ax40	5270	Ant1	12.53	13.50	99.71
ax40	5270	Ant2	12.33	13.00	99.71
ax40	5270	Ant1	12.47	13.00	99.67
ax40	5270	Ant2	12.01	13.00	99.67
ax40	5270	Sum	15.26	16.00	99.67
ax40	5310	Ant1	12.27	13.00	99.71
ax40	5310	Ant2	11.89	12.50	99.71
ax40	5310	Ant1	12.21	13.00	99.71
ax40	5310	Ant2	11.66	12.50	99.71
ax40	5310	Sum	14.95	15.50	99.71
ax40	5510	Ant1	12.15	13.00	99.71
ax40	5510	Ant2	12.65	13.50	99.71
ax40	5510	Ant1	11.98	12.50	99.71
ax40	5510	Ant2	12.37	13.00	99.71
ax40	5510	Sum	15.19	16.00	99.71
ax40	5550	Ant1	11.89	12.50	99.71



ax40	5550	Ant2	12.86	13.50	99.71
ax40	5550	Ant1	11.56	12.50	99.71
ax40	5550	Ant2	12.42	13.00	99.71
ax40	5550	Sum	15.02	16.00	99.71
ax40	5630	Ant1	12.27	13.00	99.71
ax40	5630	Ant2	12.81	13.50	99.67
ax40	5630	Ant1	12.16	13.00	99.67
ax40	5630	Ant2	12.58	13.50	99.67
ax40	5630	Sum	15.39	14.00	99.67
ax40	5710	Ant1	11.9	12.50	99.67
ax40	5710	Ant2	12.85	13.50	99.71
ax40	5710	Ant1	11.78	12.50	99.71
ax40	5710	Ant2	12.68	13.50	99.71
ax40	5710	Sum	15.26	16.00	99.71
ax40	5755	Ant1	11.91	12.50	99.67
ax40	5755	Ant2	12.8	13.50	92.71
ax40	5755	Ant1	11.8	12.50	99.71
ax40	5755	Ant2	12.73	13.50	99.71
ax40	5755	Sum	15.3	16.00	99.71
ax40	5795	Ant1	11.61	12.50	99.71
ax40	5795	Ant2	12.76	13.50	99.71
ax40	5795	Ant1	11.53	12.50	99.67
ax40	5795	Ant2	12.77	13.50	99.67
ax40	5795	Sum	15.2	16.00	99.67
ax80	5210	Ant1	12.85	13.50	99.71
ax80	5210	Ant2	12.7	13.50	99.67
ax80	5210	Ant1	12.9	13.50	99.71
ax80	5210	Ant2	12.51	13.50	99.71
ax80	5210	Sum	15.72	16.40	99.71
ax80	5290	Ant1	12.5	13.50	99.67
ax80	5290	Ant2	12.15	13.00	99.71
ax80	5290	Ant1	12.5	13.50	99.71
ax80	5290	Ant2	11.85	12.50	99.71
ax80	5290	Sum	15.2	16.00	99.71
ax80	5530	Ant1	12.39	13.00	99.71
ax80	5530	Ant2	12.86	13.50	99.71
ax80	5530	Ant1	12.2	13.00	99.71
ax80	5530	Ant2	12.64	13.50	99.71



ax80	5530	Sum	15.44	16.00	99.71
ax80	5610	Ant1	12.46	13.50	99.71
ax80	5610	Ant2	13.16	14.00	99.71
ax80	5610	Ant1	12.2	13.00	99.71
ax80	5610	Ant2	12.94	13.50	99.71
ax80	5610	Sum	15.6	16.50	99.71
ax80	5690	Ant1	12.1	13.00	99.71
ax80	5690	Ant2	13.11	14.00	99.71
ax80	5690	Ant1	11.85	12.50	99.71
ax80	5690	Ant2	13.01	14.00	99.71
ax80	5690	Sum	15.48	16.00	99.71
ax80	5775	Ant1	11.8	12.50	99.71
ax80	5775	Ant2	12.92	13.50	99.71
ax80	5775	Ant1	11.75	12.50	99.67
ax80	5775	Ant2	12.89	13.50	99.67
ax80	5775	Sum	15.37	16.00	99.67
ax20 26@0	5180	Ant1	11.45	12.50	99.65
ax20 26@0	5180	Ant2	11.88	12.50	99.65
ax20 26@0	5180	Ant1	10.55	11.50	99.65
ax20 26@0	5180	Ant2	9.3	10.00	99.65
ax20 26@0	5180	Sum	12.98	13.50	99.65
ax20 26@0	5220	Ant1	11.45	12.00	99.65
ax20 26@0	5220	Ant2	11.92	12.50	99.69
ax20 26@0	5220	Ant1	10.29	11.00	99.65
ax20 26@0	5220	Ant2	8.52	9.50	99.65
ax20 26@0	5220	Sum	12.5	13.50	99.65
ax20 26@0	5240	Ant1	11.42	13.00	99.65
ax20 26@0	5240	Ant2	11.93	12.50	99.65
ax20 26@0	5240	Ant1	9.88	10.50	99.65
ax20 26@0	5240	Ant2	8.16	9.00	99.65
ax20 26@0	5240	Sum	12.11	13.00	99.65
ax20 26@0	5260	Ant1	13.92	14.50	99.65
ax20 26@0	5260	Ant2	13.76	14.50	99.65
ax20 26@0	5260	Ant1	12.46	13.00	99.65
ax20 26@0	5260	Ant2	10.18	11.00	99.65
ax20 26@0	5260	Sum	14.48	15.00	99.65
ax20 26@0	5300	Ant1	13.58	14.50	99.69
ax20 26@0	5300	Ant2	13.29	14.00	99.69



ax20 26@0	5300	Ant1	11.7	12.50	99.69
ax20 26@0	5300	Ant2	8.93	9.50	99.69
ax20 26@0	5300	Sum	13.54	14.50	99.69
ax20 26@0	5320	Ant1	13.25	14.00	99.69
ax20 26@0	5320	Ant2	13.38	14.00	99.65
ax20 26@0	5320	Ant1	11.15	12.00	99.69
ax20 26@0	5320	Ant2	9.08	10.00	99.69
ax20 26@0	5320	Sum	13.25	14.00	99.69
ax20 26@0	5500	Ant1	13.42	14.00	99.69
ax20 26@0	5500	Ant2	14.17	15.00	99.65
ax20 26@0	5500	Ant1	10.34	11.00	99.65
ax20 26@0	5500	Ant2	9.51	10.50	99.65
ax20 26@0	5500	Sum	12.96	13.50	99.65
ax20 26@0	5580	Ant1	12.87	13.50	99.65
ax20 26@0	5580	Ant2	14.38	15.00	99.65
ax20 26@0	5580	Ant1	11.87	12.50	99.65
ax20 26@0	5580	Ant2	11.77	12.50	99.65
ax20 26@0	5580	Sum	14.83	15.50	99.65
ax20 26@0	5600	Ant1	13.47	14.00	99.65
ax20 26@0	5600	Ant2	14.32	14.00	99.65
ax20 26@0	5600	Ant1	10.75	11.50	99.65
ax20 26@0	5600	Ant2	9.78	10.50	99.65
ax20 26@0	5600	Sum	13.3	14.00	99.65
ax20 26@0	5720	Ant1	12.58	13.50	99.65
ax20 26@0	5720	Ant2	14.14	15.00	99.65
ax20 26@0	5720	Ant1	9.89	10.50	99.65
ax20 26@0	5720	Ant2	11.04	12.00	99.65
ax20 26@0	5720	Sum	13.51	14.50	99.65
ax20 26@0	5745	Ant1	12.45	13.50	99.69
ax20 26@0	5745	Ant2	14.01	13.00	99.65
ax20 26@0	5745	Ant1	9.91	10.50	99.65
ax20 26@0	5745	Ant2	11.36	12.00	99.65
ax20 26@0	5745	Sum	13.71	14.50	99.65
ax20 26@0	5785	Ant1	12.3	13.00	99.69
ax20 26@0	5785	Ant2	13.9	14.50	99.65
ax20 26@0	5785	Ant1	9.66	10.50	99.65
ax20 26@0	5785	Ant2	11.9	12.50	99.65
ax20 26@0	5785	Sum	13.93	14.50	99.65



ax20 26@0	5825	Ant1	12.64	13.50	99.65
ax20 26@0	5825	Ant2	14.15	15.00	99.65
ax20 26@0	5825	Ant1	9.96	10.50	99.65
ax20 26@0	5825	Ant2	12.76	13.50	99.65
ax20 26@0	5825	Sum	14.59	13.50	99.65
ax20 52@37	5180	Ant1	13.44	14.00	99.65
ax20 52@37	5180	Ant2	13.64	14.50	99.69
ax20 52@37	5180	Ant1	11.65	12.50	99.69
ax20 52@37	5180	Ant2	10.49	11.00	99.69
ax20 52@37	5180	Sum	14.12	13.00	99.69
ax20 52@37	5220	Ant1	13.59	14.50	99.65
ax20 52@37	5220	Ant2	13.85	14.50	99.69
ax20 52@37	5220	Ant1	11.54	12.50	99.65
ax20 52@37	5220	Ant2	9.97	10.50	99.65
ax20 52@37	5220	Sum	13.84	14.50	99.65
ax20 52@37	5240	Ant1	13.49	14.00	99.69
ax20 52@37	5240	Ant2	13.85	14.50	99.65
ax20 52@37	5240	Ant1	11.3	12.00	99.65
ax20 52@37	5240	Ant2	9.42	10.00	99.65
ax20 52@37	5240	Sum	13.47	14.00	99.65
ax20 52@37	5260	Ant1	13.57	14.50	99.65
ax20 52@37	5260	Ant2	13.69	14.50	99.69
ax20 52@37	5260	Ant1	14.26	13.00	99.65
ax20 52@37	5260	Ant2	12.09	13.00	99.65
ax20 52@37	5260	Sum	16.32	17.00	99.65
ax20 52@37	5300	Ant1	13.25	14.00	99.65
ax20 52@37	5300	Ant2	13.19	14.00	99.69
ax20 52@37	5300	Ant1	13.52	14.50	99.65
ax20 52@37	5300	Ant2	11.22	12.00	99.65
ax20 52@37	5300	Sum	15.53	16.50	99.65
ax20 52@37	5320	Ant1	12.91	13.50	99.65
ax20 52@37	5320	Ant2	13.33	14.00	99.65
ax20 52@37	5320	Ant1	13.04	14.00	99.69
ax20 52@37	5320	Ant2	11.05	12.00	99.69
ax20 52@37	5320	Sum	15.17	16.50	99.69
ax20 52@37	5500	Ant1	13.15	14.00	99.65
ax20 52@37	5500	Ant2	14.13	15.00	99.69
ax20 52@37	5500	Ant1	12.35	13.00	99.69



ax20 52@37	5500	Ant2	11.41	12.00	99.69
ax20 52@37	5500	Sum	14.92	15.50	99.69
ax20 52@37	5580	Ant1	12.89	13.50	99.65
ax20 52@37	5580	Ant2	14.33	15.00	99.65
ax20 52@37	5580	Ant1	12.03	13.00	99.65
ax20 52@37	5580	Ant2	11.32	12.00	99.65
ax20 52@37	5580	Sum	14.7	15.50	99.65
ax20 52@37	5600	Ant1	13.23	14.00	99.65
ax20 52@37	5600	Ant2	14.31	15.00	99.69
ax20 52@37	5600	Ant1	12.77	13.50	99.65
ax20 52@37	5600	Ant2	11.79	12.50	99.65
ax20 52@37	5600	Sum	15.32	14.00	99.65
ax20 52@37	5720	Ant1	12.42	13.00	99.69
ax20 52@37	5720	Ant2	14.14	15.00	99.69
ax20 52@37	5720	Ant1	12.19	13.00	99.69
ax20 52@37	5720	Ant2	12.99	13.50	99.69
ax20 52@37	5720	Sum	15.62	16.50	99.69
ax20 52@37	5745	Ant1	12.39	13.00	99.65
ax20 52@37	5745	Ant2	13.99	14.50	99.69
ax20 52@37	5745	Ant1	12.17	13.00	99.65
ax20 52@37	5745	Ant2	13.25	14.00	99.65
ax20 52@37	5745	Sum	15.75	16.50	99.65
ax20 52@37	5785	Ant1	12.22	13.00	99.69
ax20 52@37	5785	Ant2	13.9	14.50	99.65
ax20 52@37	5785	Ant1	12	13.00	99.69
ax20 52@37	5785	Ant2	13.85	14.50	99.69
ax20 52@37	5785	Sum	16.03	17.00	99.69
ax20 52@37	5825	Ant1	12.56	13.50	99.65
ax20 52@37	5825	Ant2	14.07	15.00	99.69
ax20 52@37	5825	Ant1	12.25	13.00	99.69
ax20 52@37	5825	Ant2	14.66	15.50	99.69
ax20 52@37	5825	Sum	16.63	17.50	99.69
ax20 106@53	5180	Ant1	13.74	14.50	99.67
ax20 106@53	5180	Ant2	13.77	14.50	99.67
ax20 106@53	5180	Ant1	4.41	5.00	99.67
ax20 106@53	5180	Ant2	4.56	5.00	99.67
ax20 106@53	5180	Sum	7.5	8.50	99.67
ax20 106@53	5220	Ant1	13.9	14.50	99.67



ax20 106@53	5220	Ant2	13.86	14.50	99.67
ax20 106@53	5220	Ant1	4.51	5.50	99.62
ax20 106@53	5220	Ant2	4.37	5.00	99.62
ax20 106@53	5220	Sum	7.45	8.00	99.62
ax20 106@53	5240	Ant1	13.77	14.50	99.62
ax20 106@53	5240	Ant2	13.84	14.50	99.67
ax20 106@53	5240	Ant1	14.43	15.00	99.62
ax20 106@53	5240	Ant2	12.59	13.50	99.62
ax20 106@53	5240	Sum	16.62	17.50	99.62
ax20 106@53	5260	Ant1	13.89	14.50	99.62
ax20 106@53	5260	Ant2	13.69	14.50	99.62
ax20 106@53	5260	Ant1	14.32	15.00	99.62
ax20 106@53	5260	Ant2	12.15	13.00	99.62
ax20 106@53	5260	Sum	16.38	17.00	99.62
ax20 106@53	5300	Ant1	13.62	14.50	99.62
ax20 106@53	5300	Ant2	13.23	14.00	99.62
ax20 106@53	5300	Ant1	13.6	14.50	99.67
ax20 106@53	5300	Ant2	11.34	12.00	99.67
ax20 106@53	5300	Sum	15.63	16.50	99.67
ax20 106@53	5320	Ant1	13.24	14.00	99.62
ax20 106@53	5320	Ant2	13.4	14.00	99.67
ax20 106@53	5320	Ant1	13.08	14.00	99.62
ax20 106@53	5320	Ant2	11.3	12.00	99.62
ax20 106@53	5320	Sum	15.29	16.00	99.62
ax20 106@53	5500	Ant1	13.48	14.00	99.62
ax20 106@53	5500	Ant2	14.19	13.00	99.62
ax20 106@53	5500	Ant1	12.47	13.00	99.67
ax20 106@53	5500	Ant2	11.61	12.50	99.67
ax20 106@53	5500	Sum	15.07	16.00	99.67
ax20 106@53	5580	Ant1	12.93	13.50	99.67
ax20 106@53	5580	Ant2	14.36	13.00	99.62
ax20 106@53	5580	Ant1	12.11	13.00	99.62
ax20 106@53	5580	Ant2	11.54	12.50	99.62
ax20 106@53	5580	Sum	14.84	15.50	99.62
ax20 106@53	5600	Ant1	13.57	14.50	99.62
ax20 106@53	5600	Ant2	14.34	15.00	99.62
ax20 106@53	5600	Ant1	12.86	13.50	99.62
ax20 106@53	5600	Ant2	11.82	12.50	99.62



ax20 106@53	5600	Sum	15.38	16.00	99.62
ax20 106@53	5720	Ant1	12.64	13.50	99.62
ax20 106@53	5720	Ant2	14.25	15.00	99.67
ax20 106@53	5720	Ant1	12.32	13.00	99.67
ax20 106@53	5720	Ant2	13.08	14.00	99.67
ax20 106@53	5720	Sum	15.73	16.50	99.67
ax20 106@53	5745	Ant1	12.6	13.50	99.62
ax20 106@53	5745	Ant2	14.1	15.00	99.62
ax20 106@53	5745	Ant1	12.25	13.00	99.62
ax20 106@53	5745	Ant2	13.33	14.00	99.62
ax20 106@53	5745	Sum	15.83	16.50	99.62
ax20 106@53	5785	Ant1	12.44	13.00	99.62
ax20 106@53	5785	Ant2	14	13.00	99.62
ax20 106@53	5785	Ant1	12.09	13.00	99.62
ax20 106@53	5785	Ant2	13.88	14.50	99.62
ax20 106@53	5785	Sum	16.09	17.00	99.62
ax20 106@53	5825	Ant1	12.75	13.50	99.67
ax20 106@53	5825	Ant2	14.19	15.00	99.67
ax20 106@53	5825	Ant1	12.29	13.00	99.67
ax20 106@53	5825	Ant2	14.8	15.50	99.67
ax20 106@53	5825	Sum	16.73	17.50	99.67
ax40 26@0	5190	Ant1	12.7	13.50	99.69
ax40 26@0	5190	Ant2	12.83	13.50	99.69
ax40 26@0	5190	Ant1	10.78	11.50	99.65
ax40 26@0	5190	Ant2	9.86	10.50	99.65
ax40 26@0	5190	Sum	13.35	14.50	99.65
ax40 26@0	5230	Ant1	12.64	13.50	99.69
ax40 26@0	5230	Ant2	12.98	13.50	99.65
ax40 26@0	5230	Ant1	10.32	11.00	99.69
ax40 26@0	5230	Ant2	8.92	9.50	99.69
ax40 26@0	5230	Sum	12.69	13.50	99.69
ax40 26@0	5270	Ant1	13.78	14.50	99.65
ax40 26@0	5270	Ant2	13.9	14.50	99.69
ax40 26@0	5270	Ant1	12	13.00	99.65
ax40 26@0	5270	Ant2	10.26	11.00	99.65
ax40 26@0	5270	Sum	14.23	15.00	99.65
ax40 26@0	5310	Ant1	13.59	14.50	99.69
ax40 26@0	5310	Ant2	13.37	14.00	99.69



ax40 26@0	5310	Ant1	11.46	12.00	99.69
ax40 26@0	5310	Ant2	9.43	10.00	99.69
ax40 26@0	5310	Sum	13.57	14.50	99.69
ax40 26@0	5510	Ant1	13.43	14.00	99.69
ax40 26@0	5510	Ant2	14.21	15.00	99.69
ax40 26@0	5510	Ant1	10.44	11.00	99.69
ax40 26@0	5510	Ant2	9.81	10.50	99.69
ax40 26@0	5510	Sum	13.15	14.00	99.69
ax40 26@0	5550	Ant1	12.12	13.00	99.69
ax40 26@0	5550	Ant2	14.32	15.00	99.69
ax40 26@0	5550	Ant1	12.08	13.00	99.65
ax40 26@0	5550	Ant2	11.51	12.50	99.65
ax40 26@0	5550	Sum	14.81	12.50	99.65
ax40 26@0	5590	Ant1	13.51	14.50	99.69
ax40 26@0	5630	Ant1	13.66	14.50	99.65
ax40 26@0	5630	Ant2	14.22	15.00	99.65
ax40 26@0	5630	Ant1	10.79	11.50	99.65
ax40 26@0	5630	Ant2	10.34	11.00	99.65
ax40 26@0	5630	Sum	13.58	14.50	99.65
ax40 26@0	5710	Ant1	12.77	13.50	99.69
ax40 26@0	5710	Ant2	14.21	15.00	99.65
ax40 26@0	5710	Ant1	10.19	11.00	99.65
ax40 26@0	5710	Ant2	11.29	12.00	99.65
ax40 26@0	5710	Sum	13.79	14.50	99.65
ax40 26@0	5755	Ant1	12.7	13.50	99.69
ax40 26@0	5755	Ant2	14.26	15.00	99.69
ax40 26@0	5755	Ant1	10.17	11.00	99.65
ax40 26@0	5755	Ant2	11.89	12.50	99.65
ax40 26@0	5755	Sum	14.12	13.00	99.65
ax40 26@0	5795	Ant1	12.28	13.00	99.69
ax40 26@0	5795	Ant2	14.1	15.00	99.69
ax40 26@0	5795	Ant1	9.99	10.50	99.69
ax40 26@0	5795	Ant2	12.31	13.00	99.69
ax40 26@0	5795	Sum	14.31	15.00	99.69
ax40 52@37	5190	Ant1	13.79	14.50	99.69
ax40 52@37	5190	Ant2	13.85	14.50	99.69
ax40 52@37	5190	Ant1	12.93	13.50	99.69
ax40 52@37	5190	Ant2	10.91	11.50	99.69



ax40 52@37	5190	Sum	15.05	16.00	99.69
ax40 52@37	5230	Ant1	13.84	14.50	99.69
ax40 52@37	5230	Ant2	13.88	14.50	99.65
ax40 52@37	5230	Ant1	12.65	13.50	99.65
ax40 52@37	5230	Ant2	10.19	11.00	99.65
ax40 52@37	5230	Sum	14.6	15.50	99.65
ax40 52@37	5270	Ant1	13.72	14.50	99.69
ax40 52@37	5270	Ant2	13.87	14.50	99.69
ax40 52@37	5270	Ant1	14.07	15.00	99.69
ax40 52@37	5270	Ant2	12.85	13.50	99.69
ax40 52@37	5270	Sum	16.51	17.50	99.69
ax40 52@37	5310	Ant1	13.56	14.50	99.69
ax40 52@37	5310	Ant2	13.33	14.00	99.69
ax40 52@37	5310	Ant1	13.39	14.00	99.65
ax40 52@37	5310	Ant2	11.78	12.50	99.65
ax40 52@37	5310	Sum	15.67	16.50	99.65
ax40 52@37	5510	Ant1	13.49	14.50	99.69
ax40 52@37	5510	Ant2	14.09	15.00	99.65
ax40 52@37	5510	Ant1	12.2	13.00	99.69
ax40 52@37	5510	Ant2	11.4	12.00	99.69
ax40 52@37	5510	Sum	14.83	15.50	99.69
ax40 52@37	5550	Ant1	13.17	14.00	99.65
ax40 52@37	5550	Ant2	14.2	15.00	99.69
ax40 52@37	5550	Ant1	12.25	13.00	99.65
ax40 52@37	5550	Ant2	11.73	12.50	99.65
ax40 52@37	5550	Sum	15.01	16.00	99.65
ax40 52@37	5630	Ant1	13.76	14.50	99.69
ax40 52@37	5630	Ant2	14.14	15.00	99.69
ax40 52@37	5630	Ant1	12.93	13.50	99.69
ax40 52@37	5630	Ant2	11.18	12.00	99.69
ax40 52@37	5630	Sum	15.15	16.00	99.69
ax40 52@37	5710	Ant1	12.99	13.50	99.69
ax40 52@37	5710	Ant2	14.09	15.00	99.69
ax40 52@37	5710	Ant1	12.45	13.00	99.65
ax40 52@37	5710	Ant2	12.13	13.00	99.65
ax40 52@37	5710	Sum	15.3	16.00	99.65
ax40 52@37	5755	Ant1	12.91	13.50	99.69
ax40 52@37	5755	Ant2	14.09	15.00	99.69



ax40 52@37	5755	Ant1	12.47	13.00	99.69
ax40 52@37	5755	Ant2	12.86	13.50	99.69
ax40 52@37	5755	Sum	15.68	16.50	99.69
ax40 52@37	5795	Ant1	12.58	13.50	99.69
ax40 52@37	5795	Ant2	13.99	14.50	99.69
ax40 52@37	5795	Ant1	12.08	13.00	99.69
ax40 52@37	5795	Ant2	13.53	14.50	99.69
ax40 52@37	5795	Sum	15.88	16.50	99.69
ax40 106@53	5190	Ant1	14.13	15.00	99.67
ax40 106@53	5190	Ant2	14	15.00	99.67
ax40 106@53	5190	Ant1	15.14	16.00	99.67
ax40 106@53	5190	Ant2	13.99	14.50	99.67
ax40 106@53	5190	Sum	17.61	18.50	99.67
ax40 106@53	5230	Ant1	14.13	15.00	99.62
ax40 106@53	5230	Ant2	14.12	15.00	99.67
ax40 106@53	5230	Ant1	14.81	15.50	99.67
ax40 106@53	5230	Ant2	13.56	14.50	99.67
ax40 106@53	5230	Sum	17.24	18.00	99.67
ax40 106@53	5270	Ant1	13.97	14.50	99.67
ax40 106@53	5270	Ant2	14.07	15.00	99.67
ax40 106@53	5270	Ant1	14.22	15.00	99.67
ax40 106@53	5270	Ant2	12.87	13.50	99.67
ax40 106@53	5270	Sum	16.61	17.50	99.67
ax40 106@53	5310	Ant1	13.77	14.50	99.67
ax40 106@53	5310	Ant2	13.51	14.50	99.67
ax40 106@53	5310	Ant1	13.57	14.50	99.62
ax40 106@53	5310	Ant2	11.74	12.50	99.62
ax40 106@53	5310	Sum	15.76	16.50	99.62
ax40 106@53	5510	Ant1	13.57	14.50	99.67
ax40 106@53	5510	Ant2	14.31	15.00	99.67
ax40 106@53	5510	Ant1	12.42	13.00	99.62
ax40 106@53	5510	Ant2	11.64	12.50	99.62
ax40 106@53	5510	Sum	15.06	16.00	99.62
ax40 106@53	5550	Ant1	13.35	14.00	99.67
ax40 106@53	5550	Ant2	14.4	15.00	99.67
ax40 106@53	5550	Ant1	12.42	13.00	99.67
ax40 106@53	5550	Ant2	11.94	12.50	99.67
ax40 106@53	5550	Sum	15.2	16.00	99.67



ax40 106@53	5630	Ant1	13.68	14.50	99.62
ax40 106@53	5630	Ant2	14.42	15.00	99.67
ax40 106@53	5630	Ant1	13.11	14.00	99.62
ax40 106@53	5630	Ant2	11.63	12.50	99.62
ax40 106@53	5630	Sum	15.44	16.00	99.62
ax40 106@53	5710	Ant1	12.99	13.50	99.67
ax40 106@53	5710	Ant2	14.35	15.00	99.67
ax40 106@53	5710	Ant1	12.61	13.50	99.62
ax40 106@53	5710	Ant2	12.5	13.50	99.62
ax40 106@53	5710	Sum	15.57	16.50	99.62
ax40 106@53	5755	Ant1	12.91	13.50	99.67
ax40 106@53	5755	Ant2	14.37	15.00	99.67
ax40 106@53	5755	Ant1	12.64	13.50	99.62
ax40 106@53	5755	Ant2	13.47	14.00	99.62
ax40 106@53	5755	Sum	16.09	17.00	99.62
ax40 106@53	5795	Ant1	12.6	13.50	99.67
ax40 106@53	5795	Ant2	14.29	15.00	99.67
ax40 106@53	5795	Ant1	12.32	13.00	99.62
ax40 106@53	5795	Ant2	13.9	14.50	99.62
ax40 106@53	5795	Sum	16.19	17.00	99.62
ax40 242@61	5190	Ant1	14.06	13.00	99.66
ax40 242@61	5190	Ant2	14.04	13.00	99.66
ax40 242@61	5190	Ant1	15.09	14.00	99.66
ax40 242@61	5190	Ant2	13.85	14.50	99.66
ax40 242@61	5190	Sum	17.52	16.50	99.66
ax40 242@61	5230	Ant1	14.07	15.00	99.66
ax40 242@61	5230	Ant2	14.1	15.00	99.66
ax40 242@61	5230	Ant1	14.78	15.50	99.66
ax40 242@61	5230	Ant2	13.4	14.00	99.66
ax40 242@61	5230	Sum	17.16	18.00	99.66
ax40 242@61	5270	Ant1	13.92	14.50	99.66
ax40 242@61	5270	Ant2	13.99	14.50	99.66
ax40 242@61	5270	Ant1	14.22	15.00	99.66
ax40 242@61	5270	Ant2	12.48	13.00	99.66
ax40 242@61	5270	Sum	16.45	17.00	99.66
ax40 242@61	5310	Ant1	13.76	14.50	99.66
ax40 242@61	5310	Ant2	13.41	14.00	99.66
ax40 242@61	5310	Ant1	13.61	14.50	99.66



ax40 242@61	5310	Ant2	11.47	12.00	99.66
ax40 242@61	5310	Sum	15.68	16.50	99.66
ax40 242@61	5510	Ant1	13.66	14.50	99.66
ax40 242@61	5510	Ant2	14.4	15.00	99.66
ax40 242@61	5510	Ant1	12.45	13.00	99.62
ax40 242@61	5510	Ant2	11.63	12.50	99.62
ax40 242@61	5510	Sum	15.07	16.00	99.62
ax40 242@61	5550	Ant1	13.34	14.00	99.66
ax40 242@61	5550	Ant2	14.39	15.00	99.62
ax40 242@61	5550	Ant1	12.03	13.00	99.66
ax40 242@61	5550	Ant2	11.73	12.50	99.66
ax40 242@61	5550	Sum	14.89	15.50	99.66
ax40 242@61	5630	Ant1	13.79	14.50	99.66
ax40 242@61	5630	Ant2	14.5	15.50	99.66
ax40 242@61	5630	Ant1	13.15	14.00	99.66
ax40 242@61	5630	Ant2	11.96	12.50	99.66
ax40 242@61	5630	Sum	15.61	16.50	99.66
ax40 242@61	5710	Ant1	13.04	14.00	99.66
ax40 242@61	5710	Ant2	14.47	15.00	99.62
ax40 242@61	5710	Ant1	12.62	13.50	99.66
ax40 242@61	5710	Ant2	12.96	13.50	99.66
ax40 242@61	5710	Sum	15.8	16.50	99.66
ax40 242@61	5755	Ant1	12.98	13.50	99.62
ax40 242@61	5755	Ant2	14.42	15.00	99.62
ax40 242@61	5755	Ant1	12.72	13.50	99.62
ax40 242@61	5755	Ant2	13.41	14.00	99.62
ax40 242@61	5755	Sum	16.09	17.00	99.62
ax40 242@61	5795	Ant1	12.66	13.50	99.66
ax40 242@61	5795	Ant2	14.35	15.00	99.62
ax40 242@61	5795	Ant1	12.44	13.00	99.66
ax40 242@61	5795	Ant2	14.03	15.00	99.66
ax40 242@61	5795	Sum	16.32	17.00	99.66
ax80 26@0	5210	Ant1	12.86	13.50	99.69
ax80 26@0	5210	Ant2	13.1	14.00	99.65
ax80 26@0	5210	Ant1	10.34	11.00	99.65
ax80 26@0	5210	Ant2	10.91	11.50	99.65
ax80 26@0	5210	Sum	13.65	14.50	99.65
ax80 26@0	5290	Ant1	13.93	14.50	99.69



ax80 26@0	5290	Ant2	14.19	15.00	99.69
ax80 26@0	5290	Ant1	11.38	12.00	99.69
ax80 26@0	5290	Ant2	12.3	13.00	99.69
ax80 26@0	5290	Sum	14.87	15.50	99.69
ax80 26@0	5530	Ant1	13.68	14.50	99.65
ax80 26@0	5530	Ant2	14.19	15.00	99.69
ax80 26@0	5530	Ant1	11	12.00	99.69
ax80 26@0	5530	Ant2	11.81	12.50	99.69
ax80 26@0	5530	Sum	14.43	13.00	99.69
ax80 26@0	5610	Ant1	13.35	14.00	99.69
ax80 26@0	5610	Ant2	14.5	15.00	99.65
ax80 26@0	5610	Ant1	11.12	12.00	99.65
ax80 26@0	5610	Ant2	12.19	13.00	99.65
ax80 26@0	5610	Sum	14.7	15.50	99.65
ax80 26@0	5690	Ant1	12.53	13.50	99.69
ax80 26@0	5690	Ant2	14.35	15.00	99.69
ax80 26@0	5690	Ant1	10.11	11.00	99.69
ax80 26@0	5690	Ant2	10.58	11.50	99.69
ax80 26@0	5690	Sum	13.36	14.00	99.69
ax80 26@0	5775	Ant1	12.47	13.00	99.65
ax80 26@0	5775	Ant2	14.25	15.00	99.69
ax80 26@0	5775	Ant1	9.96	10.50	99.69
ax80 26@0	5775	Ant2	11.3	14.00	99.69
ax80 26@0	5775	Sum	13.69	14.50	99.69
ax80 52@37	5210	Ant1	14.11	15.00	99.69
ax80 52@37	5210	Ant2	14.03	15.00	99.69
ax80 52@37	5210	Ant1	12.43	13.00	99.65
ax80 52@37	5210	Ant2	12.73	13.50	99.65
ax80 52@37	5210	Sum	15.59	16.50	99.65
ax80 52@37	5290	Ant1	13.76	14.50	99.69
ax80 52@37	5290	Ant2	13.96	14.50	99.69
ax80 52@37	5290	Ant1	13.08	14.00	99.69
ax80 52@37	5290	Ant2	14.4	15.00	99.69
ax80 52@37	5290	Sum	16.8	17.50	99.69
ax80 52@37	5530	Ant1	13.55	14.50	99.69
ax80 52@37	5530	Ant2	14.13	15.00	99.65
ax80 52@37	5530	Ant1	13	14.00	99.65
ax80 52@37	5530	Ant2	13.55	14.50	99.65



ax80 52@37	5530	Sum	16.29	17.00	99.65
ax80 52@37	5610	Ant1	13.29	14.00	99.69
ax80 52@37	5610	Ant2	14.42	15.00	99.69
ax80 52@37	5610	Ant1	12.97	13.50	99.65
ax80 52@37	5610	Ant2	13.41	14.00	99.65
ax80 52@37	5610	Sum	16.21	17.00	99.65
ax80 52@37	5690	Ant1	12.5	13.50	99.69
ax80 52@37	5690	Ant2	14.34	15.00	99.65
ax80 52@37	5690	Ant1	12.19	13.00	99.69
ax80 52@37	5690	Ant2	12.2	13.00	99.69
ax80 52@37	5690	Sum	15.2	16.00	99.69
ax80 52@37	5775	Ant1	12.34	13.00	99.69
ax80 52@37	5775	Ant2	14.14	15.00	99.65
ax80 52@37	5775	Ant1	12.12	13.00	99.69
ax80 52@37	5775	Ant2	12.81	13.50	99.69
ax80 52@37	5775	Sum	15.49	16.00	99.69
ax80 106@53	5210	Ant1	14.46	15.00	99.67
ax80 106@53	5210	Ant2	14.15	15.00	99.62
ax80 106@53	5210	Ant1	14.48	15.00	99.67
ax80 106@53	5210	Ant2	14.94	15.50	99.67
ax80 106@53	5210	Sum	17.73	18.50	99.67
ax80 106@53	5290	Ant1	13.77	14.50	99.62
ax80 106@53	5290	Ant2	13.96	14.50	99.67
ax80 106@53	5290	Ant1	13.29	14.00	99.62
ax80 106@53	5290	Ant2	14.14	15.00	99.62
ax80 106@53	5290	Sum	16.75	17.00	99.62
ax80 106@53	5530	Ant1	13.62	14.50	99.67
ax80 106@53	5530	Ant2	14.24	15.00	99.67
ax80 106@53	5530	Ant1	12.95	13.50	99.67
ax80 106@53	5530	Ant2	13.08	14.00	99.67
ax80 106@53	5530	Sum	16.03	17.00	99.67
ax80 106@53	5610	Ant1	13.36	14.00	99.67
ax80 106@53	5610	Ant2	14.53	15.50	99.67
ax80 106@53	5610	Ant1	13.08	14.00	99.67
ax80 106@53	5610	Ant2	13.21	14.00	99.67
ax80 106@53	5610	Sum	16.16	17.00	99.67
ax80 106@53	5690	Ant1	12.57	13.50	99.62
ax80 106@53	5690	Ant2	14.43	15.00	99.67



ax80 106@53	5690	Ant1	12.38	13.00	99.67
ax80 106@53	5690	Ant2	12.92	13.50	99.67
ax80 106@53	5690	Sum	15.67	16.50	99.67
ax80 106@53	5775	Ant1	12.42	13.00	99.67
ax80 106@53	5775	Ant2	14.24	15.00	99.67
ax80 106@53	5775	Ant1	12.27	13.00	99.67
ax80 106@53	5775	Ant2	13.16	14.00	99.67
ax80 106@53	5775	Sum	15.75	16.50	99.67
ax80 242@61	5210	Ant1	14.32	15.00	99.66
ax80 242@61	5210	Ant2	14.18	15.00	99.66
ax80 242@61	5210	Ant1	14.46	15.00	99.66
ax80 242@61	5210	Ant2	14.86	15.50	99.66
ax80 242@61	5210	Sum	17.68	18.50	99.66
ax80 242@61	5290	Ant1	13.84	14.50	99.66
ax80 242@61	5290	Ant2	13.92	14.50	99.66
ax80 242@61	5290	Ant1	13.29	14.00	99.66
ax80 242@61	5290	Ant2	13.79	14.50	99.66
ax80 242@61	5290	Sum	16.56	17.50	99.66
ax80 242@61	5530	Ant1	13.71	14.50	99.66
ax80 242@61	5530	Ant2	14.29	15.00	99.66
ax80 242@61	5530	Ant1	13.03	14.00	99.66
ax80 242@61	5530	Ant2	12.95	13.50	99.66
ax80 242@61	5530	Sum	16	17.00	99.66
ax80 242@61	5610	Ant1	13.47	15.50	99.66
ax80 242@61	5610	Ant2	14.56	15.50	99.66
ax80 242@61	5610	Ant1	12.92	13.50	99.66
ax80 242@61	5610	Ant2	12.23	13.00	99.66
ax80 242@61	5610	Sum	15.6	16.50	99.66
ax80 242@61	5690	Ant1	12.65	13.50	99.66
ax80 242@61	5690	Ant2	14.51	15.50	99.66
ax80 242@61	5690	Ant1	12.46	13.00	99.66
ax80 242@61	5690	Ant2	12.58	13.50	99.66
ax80 242@61	5690	Sum	15.53	16.50	99.66
ax80 242@61	5775	Ant1	12.5	13.50	99.66
ax80 242@61	5775	Ant2	14.24	15.00	99.66
ax80 242@61	5775	Ant1	12.36	13.00	99.66
ax80 242@61	5775	Ant2	12.76	13.50	99.66
ax80 242@61	5775	Sum	15.58	16.50	99.66



ax80 484@65	5210	Ant1	14.16	15.00	99.66
ax80 484@65	5210	Ant2	14.09	15.00	99.66
ax80 484@65	5210	Ant1	14.68	15.50	99.66
ax80 484@65	5210	Ant2	14.34	15.00	99.66
ax80 484@65	5210	Sum	17.52	18.50	99.66
ax80 484@65	5290	Ant1	13.79	14.50	99.66
ax80 484@65	5290	Ant2	13.71	14.50	99.66
ax80 484@65	5290	Ant1	13.46	14.00	99.62
ax80 484@65	5290	Ant2	12.83	13.50	99.62
ax80 484@65	5290	Sum	16.17	17.00	99.62
ax80 484@65	5530	Ant1	13.7	14.50	99.66
ax80 484@65	5530	Ant2	14.22	15.00	99.66
ax80 484@65	5530	Ant1	12.87	13.50	99.62
ax80 484@65	5530	Ant2	12.52	13.50	99.62
ax80 484@65	5530	Sum	15.71	16.50	99.62
ax80 484@65	5610	Ant1	13.54	14.50	99.66
ax80 484@65	5610	Ant2	14.51	15.50	99.66
ax80 484@65	5610	Ant1	13	14.00	99.66
ax80 484@65	5610	Ant2	12.58	13.50	99.66
ax80 484@65	5610	Sum	15.81	16.50	99.66
ax80 484@65	5690	Ant1	12.75	13.50	99.66
ax80 484@65	5690	Ant2	14.47	15.00	99.62
ax80 484@65	5690	Ant1	12.52	13.50	99.66
ax80 484@65	5690	Ant2	12.61	13.50	99.66
ax80 484@65	5690	Sum	15.58	16.50	99.66
ax80 484@65	5775	Ant1	12.55	13.50	99.66
ax80 484@65	5775	Ant2	14.18	15.00	99.62
ax80 484@65	5775	Ant1	12.36	13.00	99.62
ax80 484@65	5775	Ant2	13.11	14.00	99.62
ax80 484@65	5775	Sum	15.76	16.50	99.62

Note 1: According to KDB 447498, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The output power refers to report (Report No.: SZ23040374W01/W02/W03/W04).

4. RF Exposure Assessment

➤ Standalone Transmission Assessment:

Bands	Frequency (MHz)	Tune-up Power(dBm)	Antenna Gain(dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit for MPE (mW/cm ²)
Bluetooth	2402	8.00	1.43	8.77	0.002	1.0
WLAN 2.4GHz ANT 1	2412	18.50	1.43	98.40	0.020	1.0
WLAN 2.4GHz ANT 2	2462	18.50	1.34	96.38	0.019	1.0
WLAN 5GHz ANT 1	5260	17.50	1.40	77.62	0.015	1.0
WLAN 5GHz ANT 2	5600	17.50	1.44	78.34	0.016	1.0

➤ MIMO Transmission Assessment

Bands	Frequency (MHz)	Tune-up Power(dBm)	Antenna Gain(dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit for MPE (mW/cm ²)
WLAN 2.4GHz	2462	17.00	1.43	69.66	0.014	1.0
WLAN 5GHz	5210	18.50	1.44	98.63	0.020	1.0

Note 1: For 2.4G/5G WLAN, only the worst case will be used for calculating the power density.

Note 2: MPE calculate method

$$S = PG/4\pi R^2$$

Where: S= Power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune-up power (in appropriate units, e.g. dBm)

G = numeric gain of the antenna (in appropriate units, e.g. dBi)

R = Separation distance to the centre of radiation of the antenna (20cm)

➤ **Simultaneous Transmission Assessment:**

Multi-Band Simultaneous Transmission Consideration

Simultaneous Transmission Consideration	Position	Applicable Combination
	Body	WLAN 2.4GHz MIMO
		WLAN 5GHz MIMO
		WLAN 5GHz MIMO + Bluetooth
		WLAN 5GHz ANT 1 + Bluetooth
		WLAN 5GHz ANT 2 + Bluetooth
		WLAN 2.4GHz ANT 2 + Bluetooth

Note 1: This device contains transmitters that may operate simultaneously, therefore simultaneous transmission analysis is required as below.

Applicable Combination	Transmission Bands	Power Density (mW/cm²)	Limit (mW/cm²)	Simultaneous Transmission Result
WLAN 5GHz MIMO+ Bluetooth	WLAN 5GHz MIMO	0.020	1.0	0.022
	Bluetooth	0.002	1.0	
WLAN 5GHz ANT 1+ Bluetooth	WLAN 5GHz ANT 1	0.015	1.0	0.017
	Bluetooth	0.002	1.0	
WLAN 5GHz ANT 2+ Bluetooth	WLAN 5GHz ANT 2	0.016	1.0	0.018
	Bluetooth	0.002	1.0	
WLAN 2.4GHz ANT 2+ Bluetooth	WLAN 2.4GHz ANT 2	0.019	1.0	0.021
	Bluetooth	0.002	1.0	

Note 1: Formula for result=Power density₁/ limit₁ + Power density₂/ limit₂ ≤ 1.

Note 2: The black bold applicable combination was the worst condition.

➤ **Conclusion:**

According to 47 CFR 2.1091, this device complies with human exposure basic restrictions.



Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

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