



BLE 2M Ant1 2402 0~Reference



BLE 2M Ant1 2402 30~1000



BLE 2M Ant1 2402 1000~26500

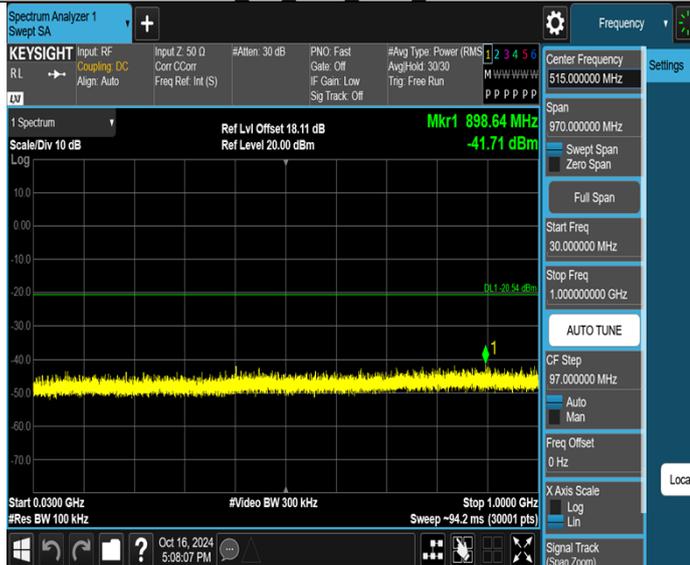




BLE 2M Ant1 2480 0~Reference



BLE 2M Ant1 2480 30~1000



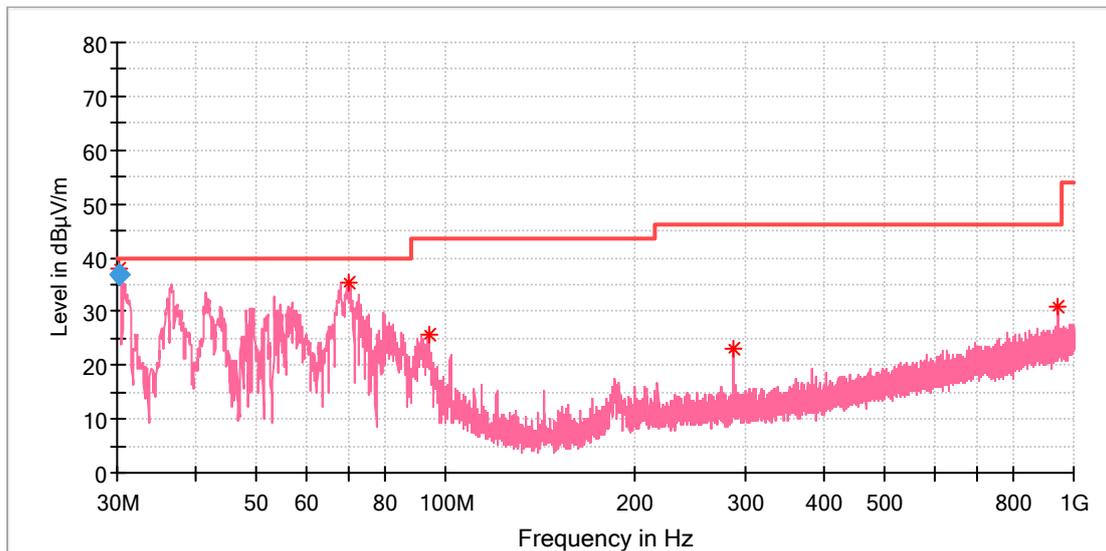
BLE 2M Ant1 2480 1000~26500





### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Mid channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.149231	38.06	40.00	1.94	100.0	V	299.0	-23.0
69.919231	35.51	40.00	4.49	100.0	V	276.0	-21.9
94.094615	25.61	43.50	17.89	100.0	V	251.0	-20.1
287.833462	23.07	46.00	22.93	100.0	V	243.0	-16.6
940.531539	31.00	46.00	15.00	100.0	V	135.0	-4.4

### Final Result

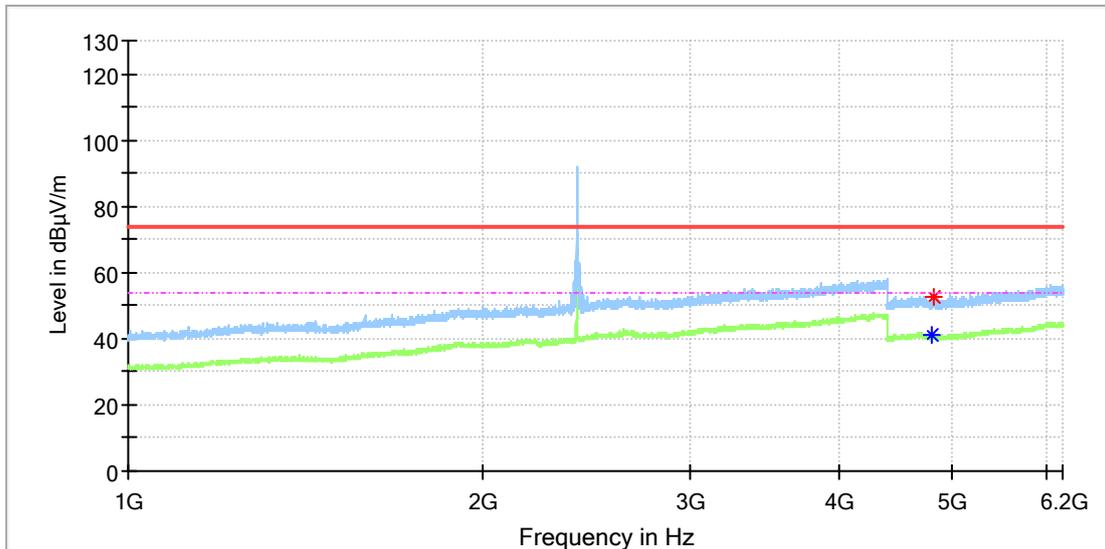
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.149231	36.90	40.00	3.10	100.0	V	294.0	-23.0

1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

### EUT Information

EUT Name:	Wireless equipment
Model:	CS8F
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168504088/A003835666-002
Test Voltage:	Adaptor
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4799.000000	---	41.21	54.00	12.79	150.0	H	95.0	13.3
4816.000000	52.31	---	74.00	21.69	150.0	H	199.0	13.3

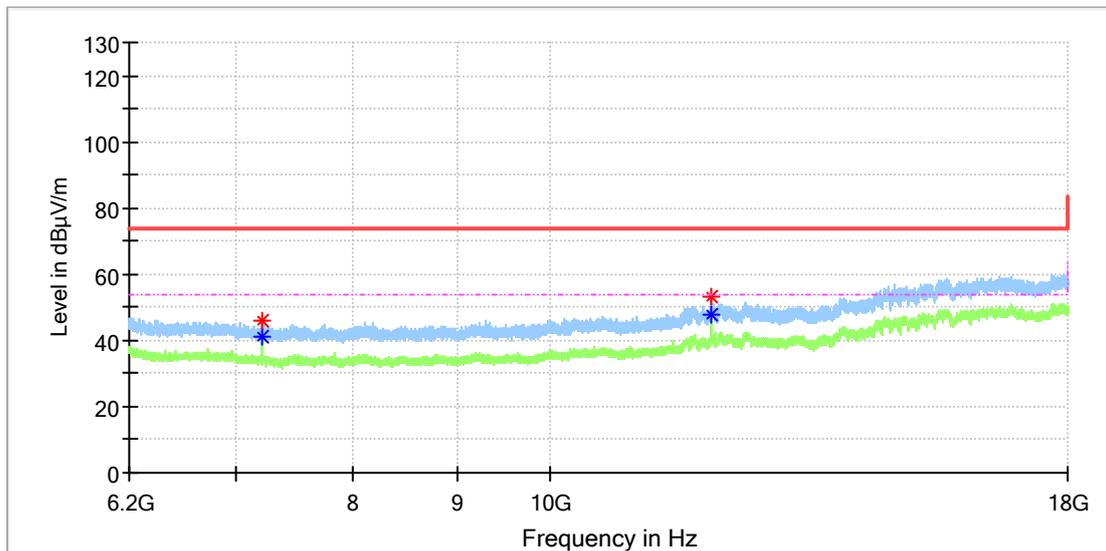
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Low channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

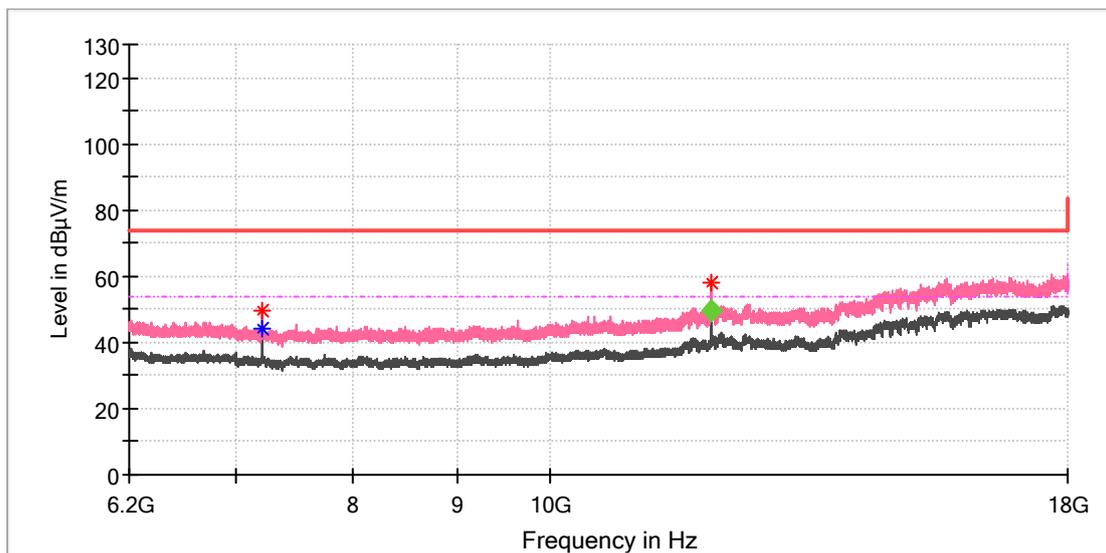
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	40.93	54.00	13.07	150.0	H	336.0	8.8
7206.441667	45.95	---	74.00	28.05	150.0	H	207.0	8.8
12009.533333	53.20	---	74.00	20.80	150.0	H	253.0	15.5
12010.025000	---	47.64	54.00	6.36	150.0	H	253.0	15.5

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Low channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	49.30	---	74.00	24.70	150.0	V	187.0	8.8
7204.966667	---	44.21	54.00	9.79	150.0	V	187.0	8.8
12011.500000	57.87	---	74.00	16.13	150.0	V	222.0	15.5

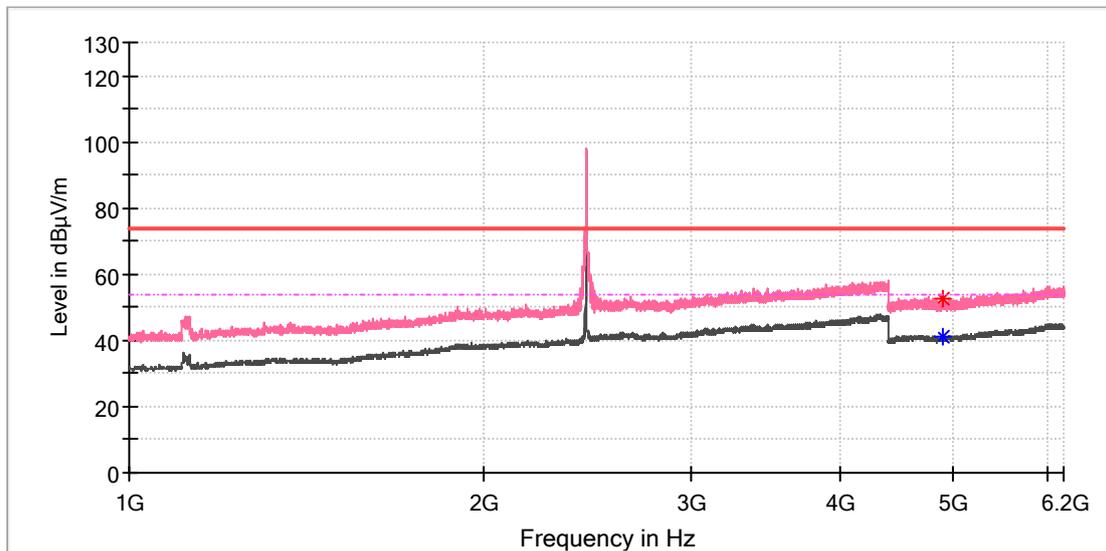
### Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
12009.787083	49.54	54.00	4.46	150.0	V	217.0	15.5



### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Mid channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

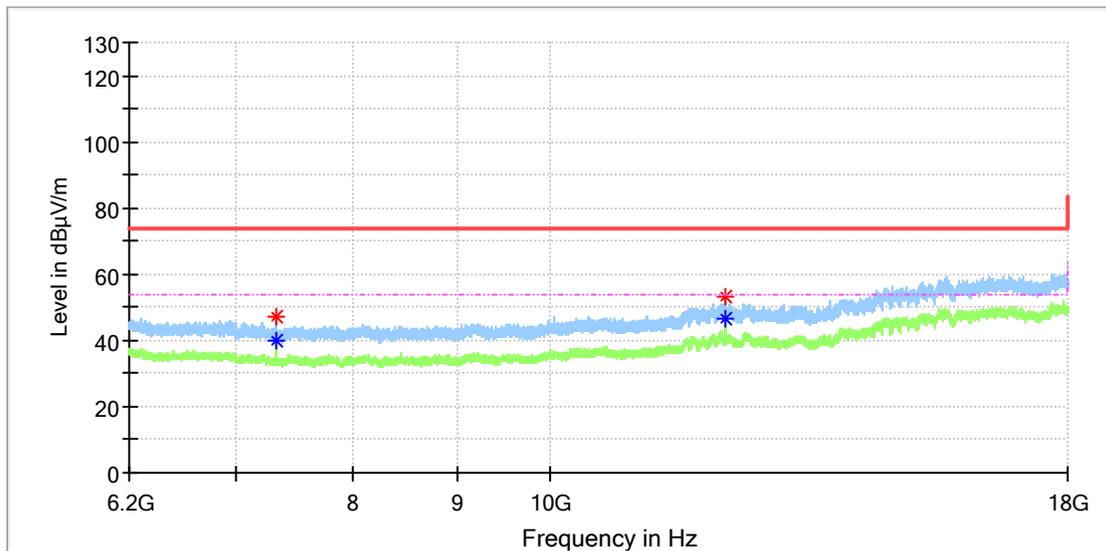
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4893.000000	---	40.81	54.00	13.19	150.0	V	96.0	13.3
4905.000000	52.35	---	74.00	21.65	150.0	V	280.0	13.3

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Mid channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

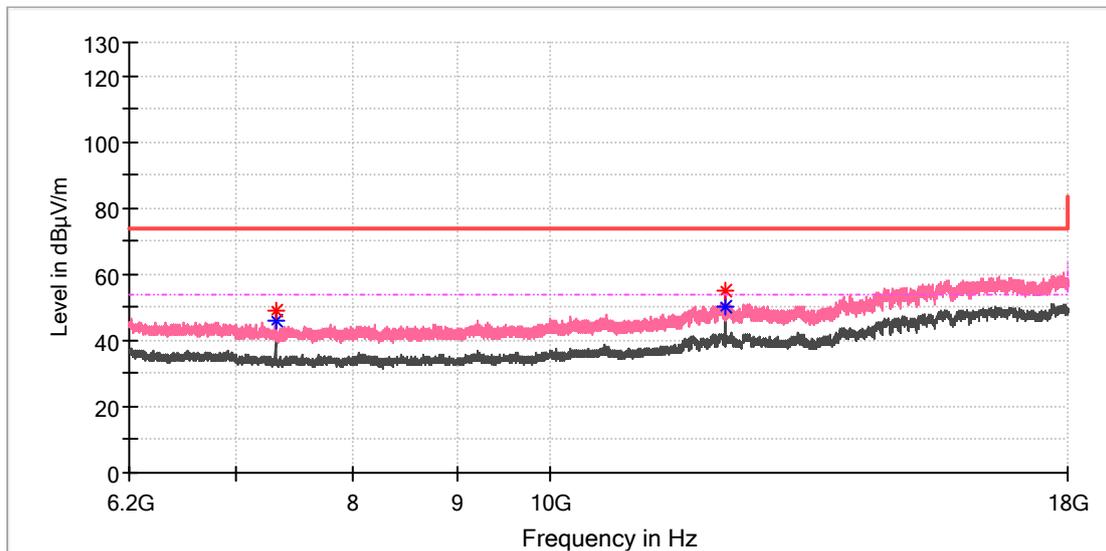
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	---	40.10	54.00	13.90	150.0	H	337.0	8.2
7321.000000	46.90	---	74.00	27.10	150.0	H	337.0	8.2
12199.316667	---	46.86	54.00	7.14	150.0	H	187.0	15.6
12200.791667	53.19	---	74.00	20.81	150.0	H	211.0	15.7

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_Mid channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7319.525000	49.02	---	74.00	24.98	150.0	V	176.0	8.2
7320.016667	---	45.72	54.00	8.28	150.0	V	176.0	8.2
12199.808333	---	50.00	54.00	4.00	150.0	V	165.0	15.6
12200.791667	55.23	---	74.00	18.77	150.0	V	199.0	15.7

### Final Result

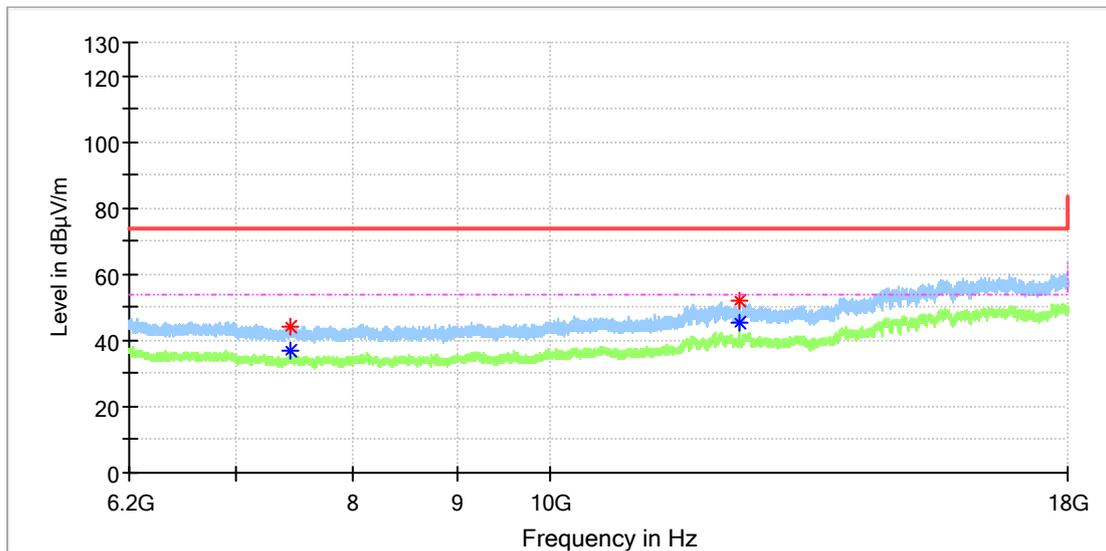
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---





### EUT Information

EUT Name:	Wireless equipment
Model:	CS8F
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168504088/A003835666-002
Test Voltage:	Adaptor
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

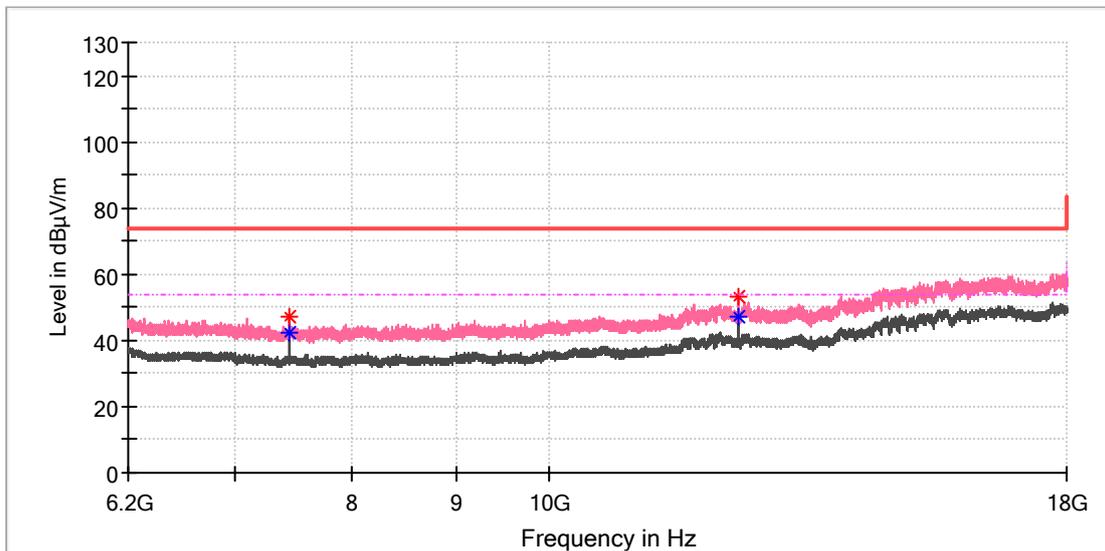
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.508333	---	36.99	54.00	17.01	150.0	H	18.0	8.4
7440.475000	44.11	---	74.00	29.89	150.0	H	18.0	8.4
12398.933333	51.87	---	74.00	22.13	150.0	H	168.0	15.4
12398.933333	---	45.59	54.00	8.41	150.0	H	168.0	15.4

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_High channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	47.23	---	74.00	26.77	150.0	V	186.0	8.4
7439.491667	---	42.52	54.00	11.48	150.0	V	186.0	8.4
12399.425000	---	46.91	54.00	7.09	150.0	V	186.0	15.4
12401.391667	52.91	---	74.00	21.09	150.0	V	186.0	15.4

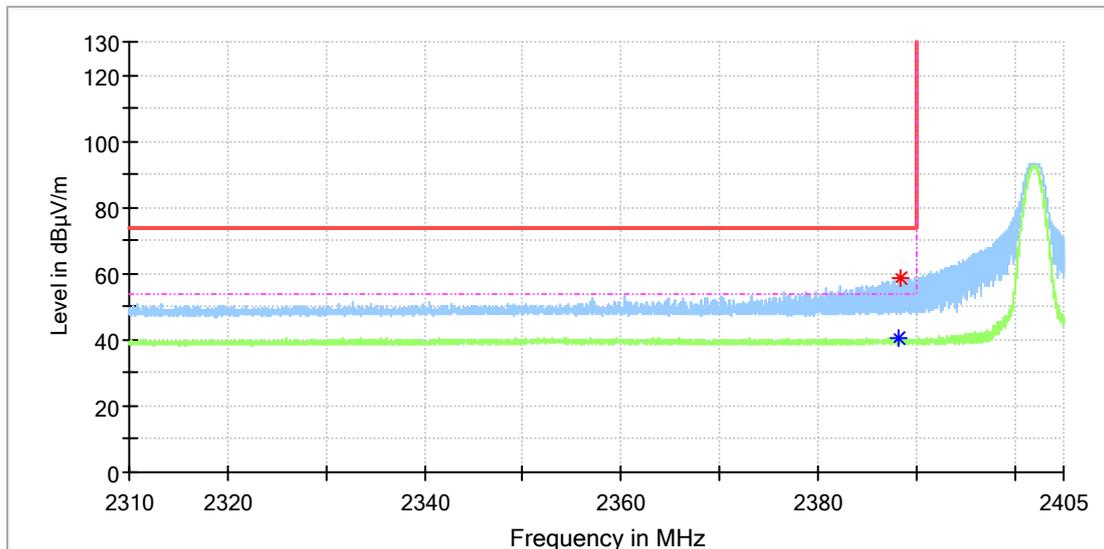
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

### EUT Information

EUT Name:	Wireless equipment
Model:	CS8F
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168504088/A003835666-002
Test Voltage:	Adaptor
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.235294	---	40.49	54.00	13.51	150.0	H	310.0	8.5
2388.333088	58.75	---	74.00	15.25	150.0	H	317.0	8.5

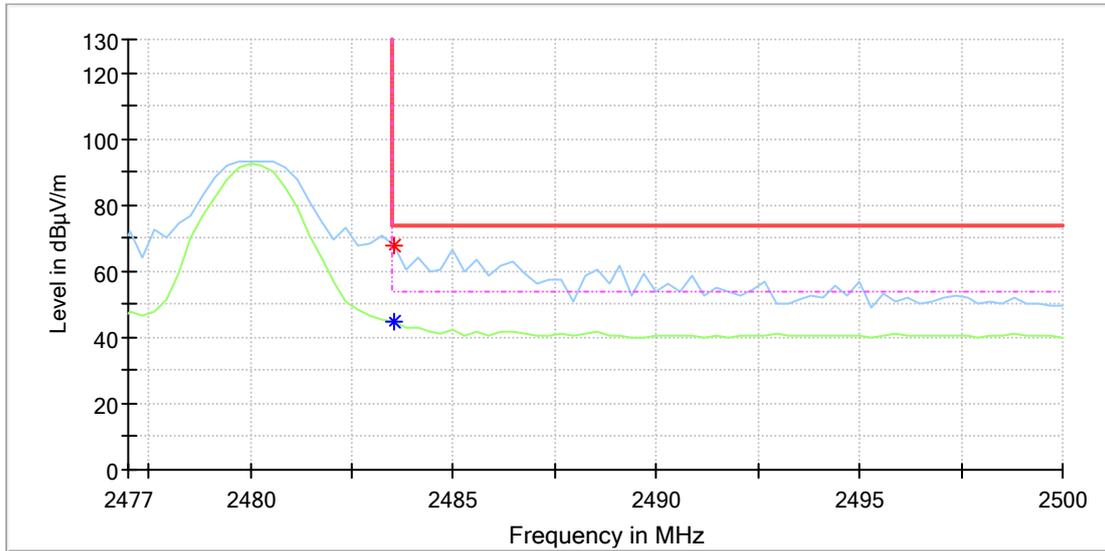
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_High channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

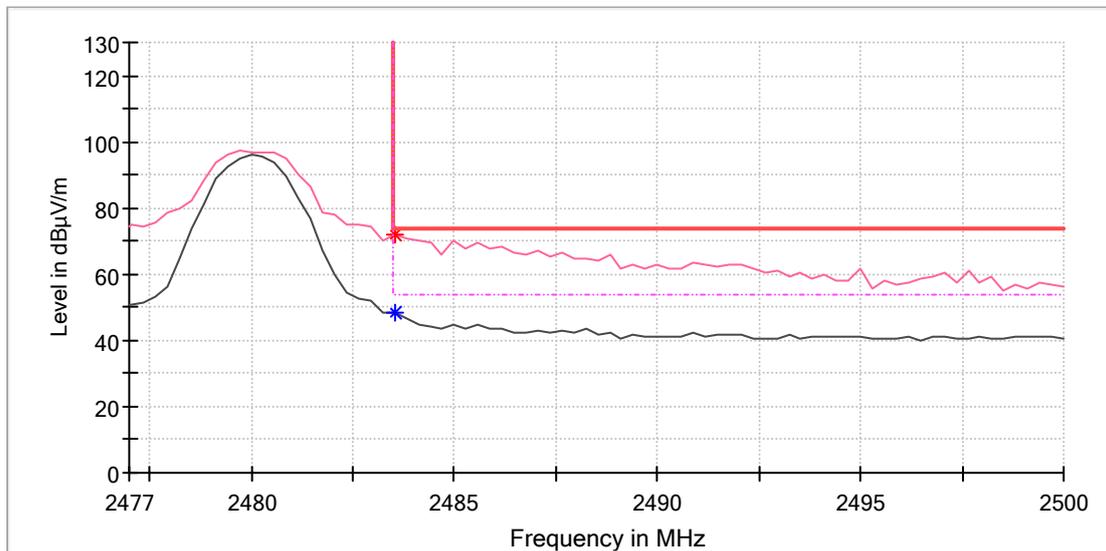
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	67.96	---	74.00	6.04	150.0	H	300.0	9.0
2483.529412	---	44.70	54.00	9.30	150.0	H	300.0	9.0

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name: Wireless equipment  
 Model: CS8F  
 Test Mode: BLE 1M\_High channel  
 Order No/Sample No: 168504088/A003835666-002  
 Test Voltage: Adaptor  
 Remark: Temp 24 Humi:50%  
 Test Standard: FCC 15.247  
 Tested By: Kei Zhang  
 Reviewed By: Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	48.49	54.00	5.51	150.0	V	277.0	9.0
2483.529412	71.91	---	74.00	2.09	150.0	V	277.0	9.0

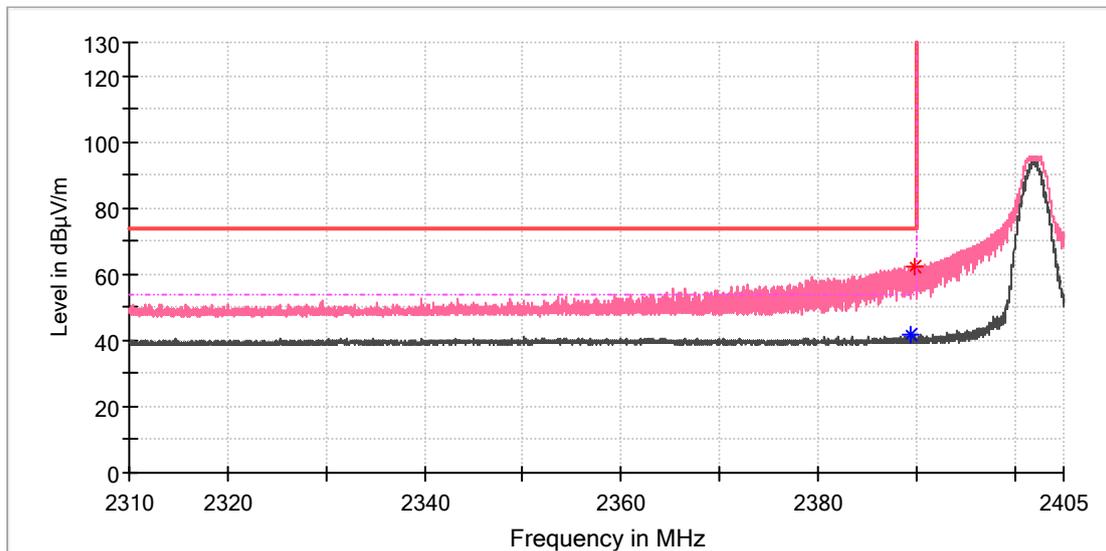
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name:	Wireless equipment
Model:	CS8F
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168504088/A003835666-002
Test Voltage:	Adaptor
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.380882	---	41.55	54.00	12.45	150.0	V	57.0	8.5
2389.841912	62.18	---	74.00	11.82	150.0	V	292.0	8.5

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## Appendix A.8: Test Results of Conducted Emission on AC Mains

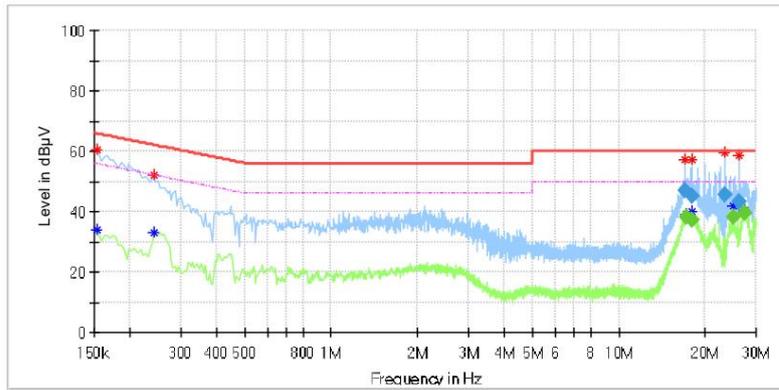
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### Test Report

#### EUT Information

EUT Name:  
Order Number:  
Model: CS8F  
Test Mode: Charging+working  
Test Voltage: AC 120V/60Hz  
Test Standard: FCC Part 15  
Test By./Review By: Soloman Wu / Shower Dai  
Tem./Hum./Pressure: 24.2°C/52.2%/101kPa  
Remark: SR3



#### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	---	33.86	55.78	21.93	L1	9.9
0.154000	60.27	---	65.78	5.52	L1	9.9
0.242000	---	33.02	52.03	19.01	L1	9.9
0.242000	52.29	---	62.03	9.74	L1	9.9
17.033500	57.30	---	60.00	2.70	L1	10.4
17.165500	---	39.01	50.00	10.99	L1	10.4
18.045500	57.25	---	60.00	2.75	L1	10.4
18.045500	---	40.16	50.00	9.84	L1	10.4
23.477500	59.49	---	60.00	0.51	L1	10.4
24.917500	---	41.82	50.00	8.18	L1	10.4
26.241500	58.42	---	60.00	1.58	L1	10.4
27.493500	---	40.55	50.00	9.45	L1	10.4

#### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
17.033500	46.99	---	60.00	13.01	1000.0	9.000	L1	10.4
17.165500	---	38.03	50.00	11.97	1000.0	9.000	L1	10.4
18.045500	---	37.36	50.00	12.64	1000.0	9.000	L1	10.4
18.045500	45.14	---	60.00	14.86	1000.0	9.000	L1	10.4
23.477500	45.35	---	60.00	14.65	1000.0	9.000	L1	10.4
24.917500	---	38.12	50.00	11.88	1000.0	9.000	L1	10.4
26.241500	43.13	---	60.00	16.87	1000.0	9.000	L1	10.4

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27.493500	---	39.58	50.00	10.42	1000.0	9.000	L1	10.4
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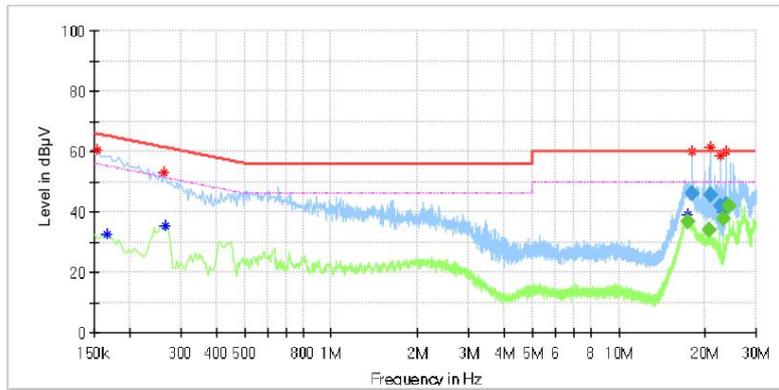
TUV Rheinland (Shenzhen) Co., Ltd.

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## Test Report

### EUT Information

EUT Name:  
Order Number:  
Model: CS8F  
Test Mode: Charging+working  
Test Voltage: AC 120V/60Hz  
Test Standard: FCC Part 15  
Test By./Review By: Soloman Wu / Shower Dai  
Tem./Hum./Pressure: 24.2°C/52.2%/101kPa  
Remark: SR3



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	60.37	---	65.78	5.41	N	9.8
0.166000	---	32.63	55.16	22.53	N	9.8
0.262000	53.02	---	61.37	8.35	N	9.8
0.266000	---	35.25	51.24	15.99	N	9.8
17.394500	---	38.90	50.00	11.10	N	10.2
17.958500	60.06	---	60.00	-0.06	N	10.2
20.621500	---	34.25	50.00	15.75	N	10.3
20.721500	61.47	---	60.00	-1.47	N	10.3
22.465500	58.56	---	60.00	1.44	N	10.3
23.197500	---	39.80	50.00	10.20	N	10.3
23.485500	59.82	---	60.00	0.18	N	10.3
24.057500	---	41.79	50.00	8.21	N	10.3

### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
17.394500	---	36.92	50.00	13.08	1000.0	9.000	N	10.2
17.958500	46.10	---	60.00	13.90	1000.0	9.000	N	10.2
20.621500	---	33.99	50.00	16.01	1000.0	9.000	N	10.3
20.721500	45.55	---	60.00	14.45	1000.0	9.000	N	10.3
22.465500	41.91	---	60.00	18.09	1000.0	9.000	N	10.3
23.197500	---	37.86	50.00	12.14	1000.0	9.000	N	10.3
23.485500	42.12	---	60.00	17.88	1000.0	9.000	N	10.3

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24.057500	---	41.72	50.00	8.28	1000.0	9.000	N	10.3
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10/15/2024