

TEST REPORT

Report Number: 19120559HKG-002

Application For Original Grant of 47 CFR Part 15 Certification

FCC ID: ACJ96NKX-TGB850

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Date: May 28, 2020

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TEST REPORT

GENERAL INFORMATION

Grantee:	Panasonic Corporation of North America
Grantee Address:	2 Riverfront Plaza, 9/F., Newark, NJ 07102, USA
FCC Specification Standard:	FCC Part 15, October 1, 2018 Edition
FCC ID:	ACJ96NKX-TGB850
FCC Model(s):	KX-TGB850, KX-TGBA852, KX-TG2153SK
Type of EUT:	Class B Digital portion
Description of EUT:	DECT Cordless Telephone
Serial Number:	N/A
Sample Receipt Date:	December 13, 2019
Date of Test:	December 18, 2019 - May 21, 2020
Report Date:	May 28, 2020
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%
Conclusion:	Test was conducted by client submitted sample. The submitted sample as received complied with the 47 CFR Part 15 Certification.

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1.0 TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

1.1 Summary of Test Results

Test Items	FCC Part 15 Section	Results	Details See Section
Radiated Emission from Class B Digital portion	15.109	Pass	4.2
AC Power Line Conducted Emission	15.107	Pass	4.3

1.2 Statement of Compliance

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2018 Edition

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2.0 GENERAL DESCRIPTION

2.1 Product Description

The KX-TGB850 is a DECT Cordless Telephone. It operates at frequency range of 1921.536MHz to 1928.448MHz with 5 channels (1921.536MHz, 1923.264MHz, 1924.992MHz, 1926.720MHz and 1928.448MHz). The Base Unit is powered by an adaptor 100-240VAC 50/60Hz 0.2A max. The Handset is powered by Ni-MH type rechargeable battery pack (2 x 1.2V 550mAh AAA size).

The Model(s): KX-TGBA852 and KX-TG2153SK are the same as the Model: KX-TGB850 in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure as declared by client. The only differences between these models are model number, color of enclosure, number of handsets and chargers, and packaging material to be sold for marketing purpose as declared by client. Suffix (xy) indicates different packaging material, different number of handsets and chargers, and different color of enclosure as declared by client.

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

The circuit description is saved with filename: descri.pdf.

2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2014). Preliminary radiated scans and all radiated measurements were performed in radiated emission test site. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

2.2 Test Facility

The radiated emission test site and AC power line conducted measurement facility used to collect the radiated data and AC Power Line conducted data are at Intertek Testing Services Hong Kong Ltd., which is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong SAR, China. This test facility and site measurement data have been fully placed on file with FCC.

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3.0 SYSTEM TEST CONFIGURATION

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup normal mode to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst case emissions.

The Base Unit was powered by a 100-240VAC 50/60Hz 0.2A max to 6VDC 0.45A 2.7W or 100-240VAC 50/60Hz 0.2A max to 6VDC 0.4A adaptor. The handset was powered by a fully charged battery.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the base unit attached to peripherals, they were connected and operational to simulate typical use.

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Radiated emissions were taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For radiated measurement, the spectrum analyzer resolution bandwidth was 100 kHz for frequencies below 1000 MHz.

Radiated emission measurement was performed from the frequency 30MHz to 1GHz.

Detector function for radiated emissions is in peak mode.

For AC line conducted emission test, the EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50ohm coupling impedance for measuring instrument. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

All relevant operation modes have been tested, and the worst case data was included in this report.

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3.2 EUT Exercising Software

The EUT exercise program (if any) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

3.3 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor and/or a battery (provided with the unit) were used to power the device. Their descriptions are listed below.

- (1) Base Unit: An AC adaptor (100-240VAC 50/60Hz 0.2A max to 6VDC 0.45A 2.7W, Model: AT-332A-060045A, Brand: Baijunda) (Supplied by Client)
- (2) Base Unit: An AC adaptor (100-240VAC 50/60Hz 0.2A max to 6VDC 0.4A, Model: MN0063-L060040, Brand: Meic) (Supplied by Client)
- (3) Handset: 2.4V Ni-MH type rechargeable batteries (2 x 1.2V 550mAh AAA size) (Supplied by Client)
- (4) Charger: An AC adaptor (100-240VAC 50/60Hz 0.2A max to 6VDC 0.45A 2.7W, Model: AT-332A-060045A, Brand: Baijunda) (Supplied by Client)
- (5) Charger: An AC adaptor (100-240VAC 50/60Hz 0.2A max to 6VDC 0.4A, Model: MN0063-L060040, Brand: Meic) (Supplied by Client)

Description of Accessories:

- (1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated (Supplied by Intertek)

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test at a level of confidence of 95% has been considered. The values of the Measurement uncertainty for radiated emission test and RF conducted measurement test are $\pm 5.3\text{dB}$ and $\pm 0.99\text{dB}$ respectively. The value of the Measurement uncertainty for conducted emission test is $\pm 4.2\text{dB}$.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

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4.0 TEST RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB
- PD = Pulse Desensitization in dB
- AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(32 \text{ dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}$$

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4.2 Radiated Emissions

4.2.1 Radiated Emissions Configuration Photographs:

Worst Case Radiated Emission
at

836.444 MHz

The worst case radiated emission configuration photographs are attached in the Appendix and saved with filename: config photos.pdf

4.2.2 Radiated Emissions Data:

The data in tables 1-4 list the significant emission frequencies, the limit and the margin of compliance.

Judgement:

Passed by 9.9 dB margin

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RADIATED EMISSIONS DATA

Mode: Base unit Answer Machine mode with Meic adaptor

Table 1
Pursuant to FCC Part 15 Section 15.109 Emissions Requirements

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	44.744	29.5	16	10.0	23.5	40.0	-16.5
V	60.344	31.9	16	10.0	25.9	40.0	-14.1
V	118.722	20.6	16	14.0	18.6	43.5	-24.9
V	147.728	22.7	16	14.0	20.7	43.5	-22.8
V	261.681	18.1	16	21.0	23.1	46.0	-22.9
V	352.478	16.9	16	24.0	24.9	46.0	-21.1
V	504.578	20.3	16	26.0	30.3	46.0	-15.7
H	836.444	21.1	16	31.0	36.1	46.0	-9.9

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.
4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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RADIATED EMISSIONS DATA

Mode: Base unit Answer Machine mode with Baijunda adaptor

Table 2
Pursuant to FCC Part 15 Section 15.109 Emissions Requirements

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	62.502	19.5	16	10.0	13.5	40.0	-26.5
V	131.236	20.9	16	14.0	18.9	43.5	-24.6
V	257.664	19.4	16	21.0	24.4	46.0	-21.6
V	628.992	16.8	16	29.0	29.8	46.0	-16.2
H	794.879	16.5	16	31.0	31.5	46.0	-14.5
H	960.771	16.0	16	33.0	33.0	54.0	-21.0

NOTES:

5. Peak detector is used for the emission measurement.
6. All measurements were made at 3 meters.
7. Negative value in the margin column shows emission below limit.
8. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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RADIATED EMISSIONS DATA

Mode: Handset and Charger ringing and charging mode with Meic adaptor

Table 3
Pursuant to FCC Part 15 Section 15.109 Emissions Requirements

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	60.953	30.9	16	10.0	24.9	40.0	-15.1
V	77.650	34.7	16	6.0	24.7	40.0	-15.3
V	119.209	21.4	16	14.0	19.4	43.5	-24.1
V	147.484	27.4	16	14.0	25.4	43.5	-18.1
V	219.634	19.5	16	17.0	20.5	46.0	-25.6
V	294.953	12.9	16	22.0	18.9	46.0	-27.1
V	442.422	9.4	16	26.0	19.4	46.0	-26.6
V	737.359	10.3	16	30.0	24.3	46.0	-21.7

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.
4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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RADIATED EMISSIONS DATA

Mode: Handset and Charger ringing and charging mode with Baijunda adaptor

Table 4
Pursuant to FCC Part 15 Section 15.109 Emissions Requirements

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	31.108	31.7	16	10.0	25.7	40.0	-14.3
V	52.725	27.0	16	11.0	22.0	40.0	-18.0
V	131.158	19.2	16	14.0	17.2	43.5	-26.3
V	221.184	19.1	16	17.0	20.1	46.0	-25.9
V	442.368	10.4	16	26.0	20.4	46.0	-25.6
V	960.771	16.5	16	33.0	33.5	54.0	-20.5

NOTES:

1. Peak detector is used for the emission measurement.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.
4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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4.3 AC Power Line Conducted Emissions:

[] Not applicable – EUT is only powered by battery for operation.

[×] EUT connects to AC power line. Emission Data is listed in following pages.

[] Base Unit connects to AC power line and has transmission. Handset connects to AC power line (indirectly) but has no transmission. Emission Data of Base Unit is listed in following pages.

4.3.1 AC Power Line Conducted Emissions Configuration Photographs:

Worst Case AC Power Line Conducted Emission
at

2.8905 MHz

The worst case AC power Line conducted emission configuration photographs are saved with filename:
config photos.pdf

4.3.2 AC Power Line Conducted Emissions Data:

The plot(s) and data in the following pages list the significant emission frequencies, the limit and the worst case margin of compliance.

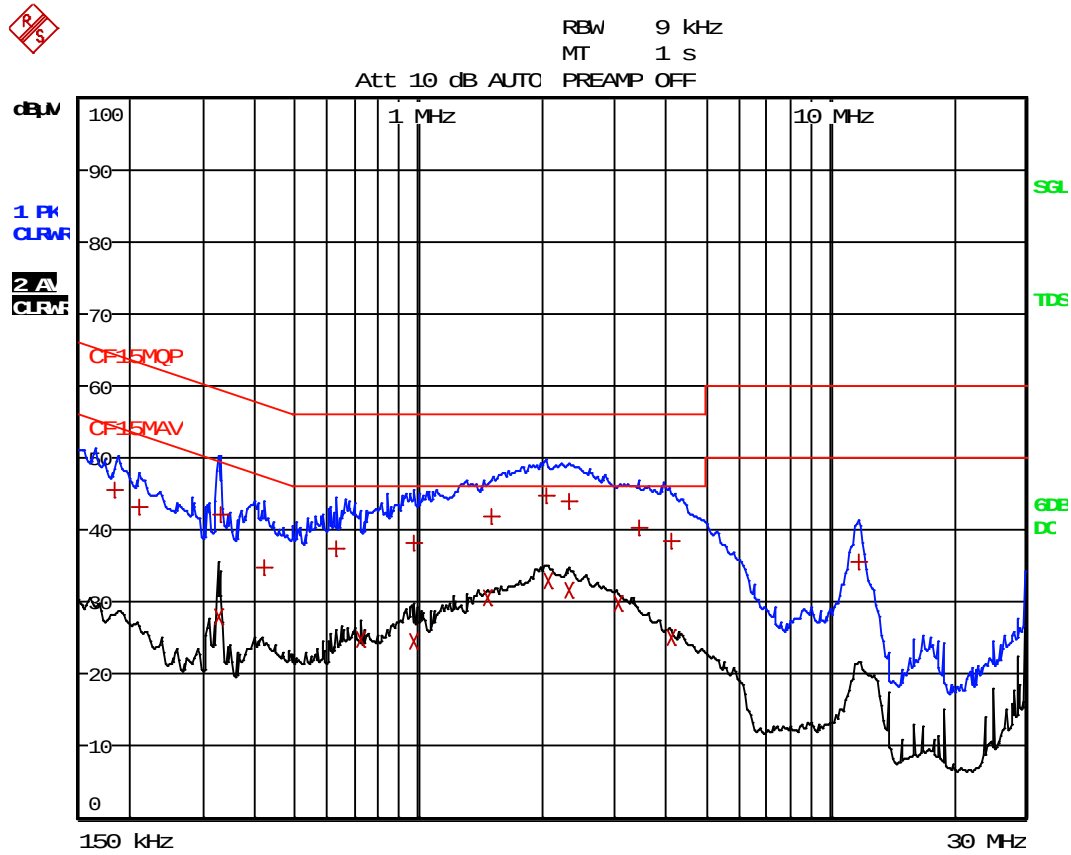
Judgment:

Passed by 1.35 dB margin compared with cispr average limit

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Worst Case:

Base unit Talk mode with Meic adaptor



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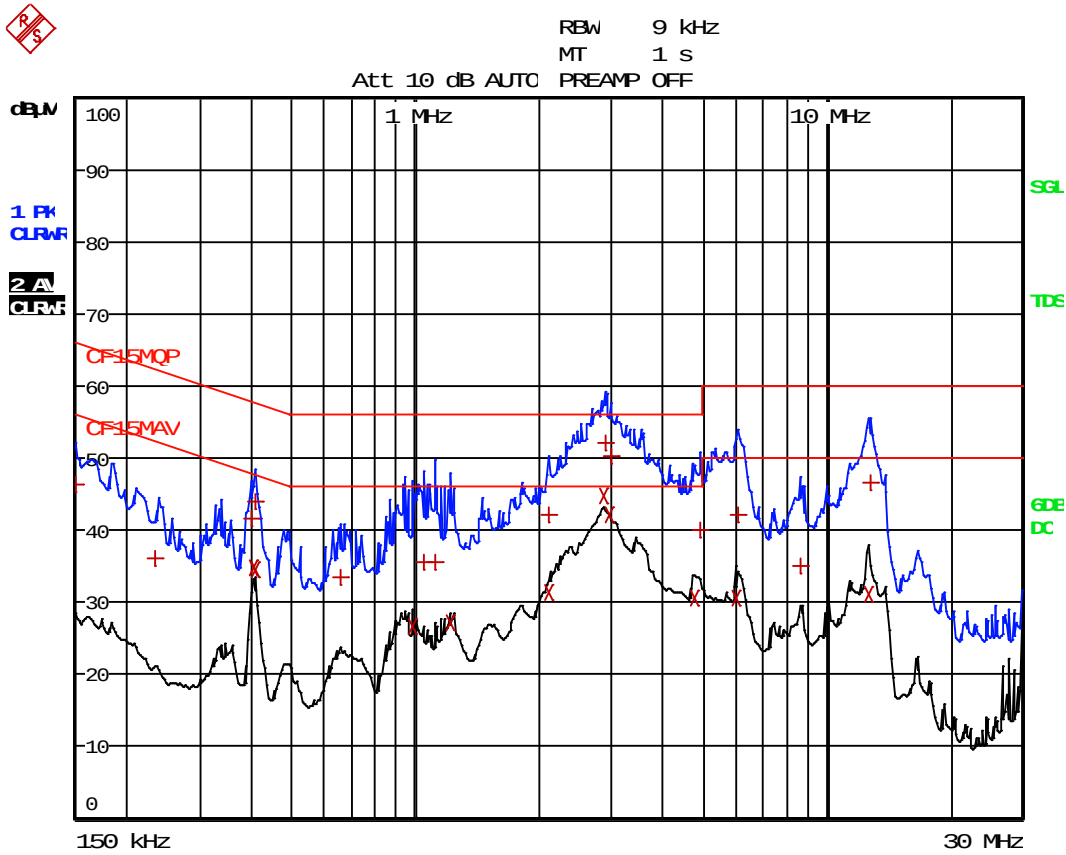
Worst Case: Base unit Talk mode with Meic adaptor

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	186 kHz	45.45	N	-18.76
1 Quasi Peak	213 kHz	43.18	L1	-19.90
2 CISPR Average	325.5 kHz	28.07	N	-21.49
1 Quasi Peak	330 kHz	42.24	N	-17.20
1 Quasi Peak	420 kHz	34.90	L1	-22.54
1 Quasi Peak	631.5 kHz	37.52	N	-18.47
2 CISPR Average	721.5 kHz	24.67	L1	-21.32
1 Quasi Peak	978 kHz	38.12	N	-17.87
2 CISPR Average	978 kHz	24.42	N	-21.57
2 CISPR Average	1.4775 MHz	30.63	L1	-15.36
1 Quasi Peak	1.5 MHz	41.86	L1	-14.14
1 Quasi Peak	2.049 MHz	44.73	L1	-11.26
2 CISPR Average	2.067 MHz	32.95	L1	-13.04
1 Quasi Peak	2.319 MHz	43.83	L1	-12.16
2 CISPR Average	2.337 MHz	31.67	L1	-14.32
2 CISPR Average	3.0795 MHz	29.72	L1	-16.27
1 Quasi Peak	3.444 MHz	40.25	N	-15.74
2 CISPR Average	4.1145 MHz	24.97	N	-21.02
1 Quasi Peak	4.1505 MHz	38.41	L1	-17.58
1 Quasi Peak	11.7915 MHz	35.58	N	-24.41

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Worst Case:

Base unit ringing and charging mode with Baijunda adaptor



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Worst Case: Base unit ringing and charging mode with Baijunda adaptor

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	150 kHz	46.42 L1		-19.57
1 Quasi Peak	235.5 kHz	36.06 L1		-26.18
1 Quasi Peak	397.5 kHz	41.48 L1		-16.42
2 CISPR Average	402 kHz	34.64 N		-13.16
1 Quasi Peak	406.5 kHz	44.08 N		-13.63
2 CISPR Average	406.5 kHz	34.60 N		-13.11
1 Quasi Peak	654 kHz	33.38 N		-22.61
2 CISPR Average	982.5 kHz	26.72 L1		-19.27
1 Quasi Peak	1.0455 MHz	35.52 L1		-20.48
1 Quasi Peak	1.113 MHz	35.55 L1		-20.44
2 CISPR Average	1.221 MHz	27.28 L1		-18.71
2 CISPR Average	2.1075 MHz	31.39 N		-14.60
1 Quasi Peak	2.112 MHz	42.11 N		-13.89
2 CISPR Average	2.8905 MHz	44.64 N		-1.35
1 Quasi Peak	2.9175 MHz	51.98 N		-4.01
2 CISPR Average	2.958 MHz	42.01 L1		-3.98
1 Quasi Peak	2.9985 MHz	50.33 L1		-5.66
2 CISPR Average	4.7805 MHz	30.48 N		-15.51
1 Quasi Peak	4.9245 MHz	39.96 N		-16.03
2 CISPR Average	6.045 MHz	30.50 N		-19.49

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Worst Case:

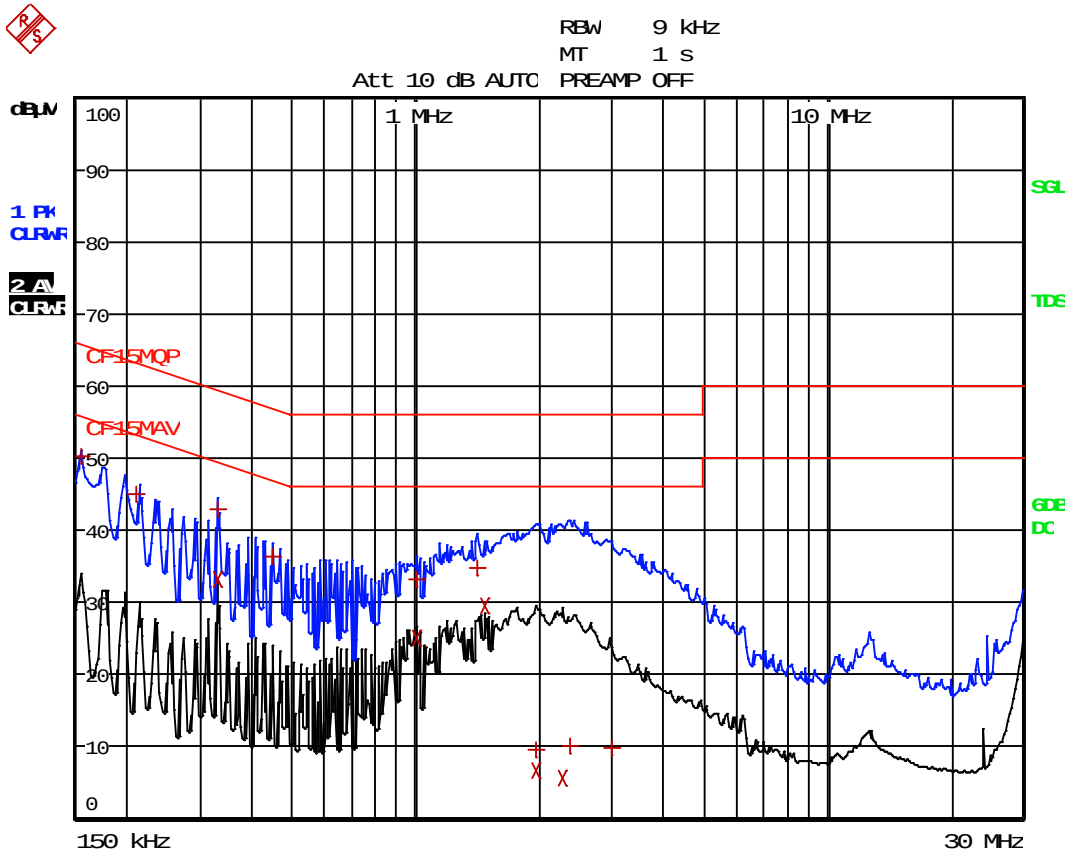
Base unit Answer Machine mode with Baijunda adaptor

EDIT PEAK LIST (Final Measurement Results)				
Trace1:		CF15MQP		
Trace2:		CF15MAV		
Trace3:		---		
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	6.0855 MHz	42.06	N	-17.93
1 Quasi Peak	8.6595 MHz	35.04	L1	-24.95
2 CISPR Average	12.7095 MHz	31.15	N	-18.84
1 Quasi Peak	12.867 MHz	46.67	N	-13.32

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Worst Case:

Handset and Charger ringing and charging mode with Meic adaptor



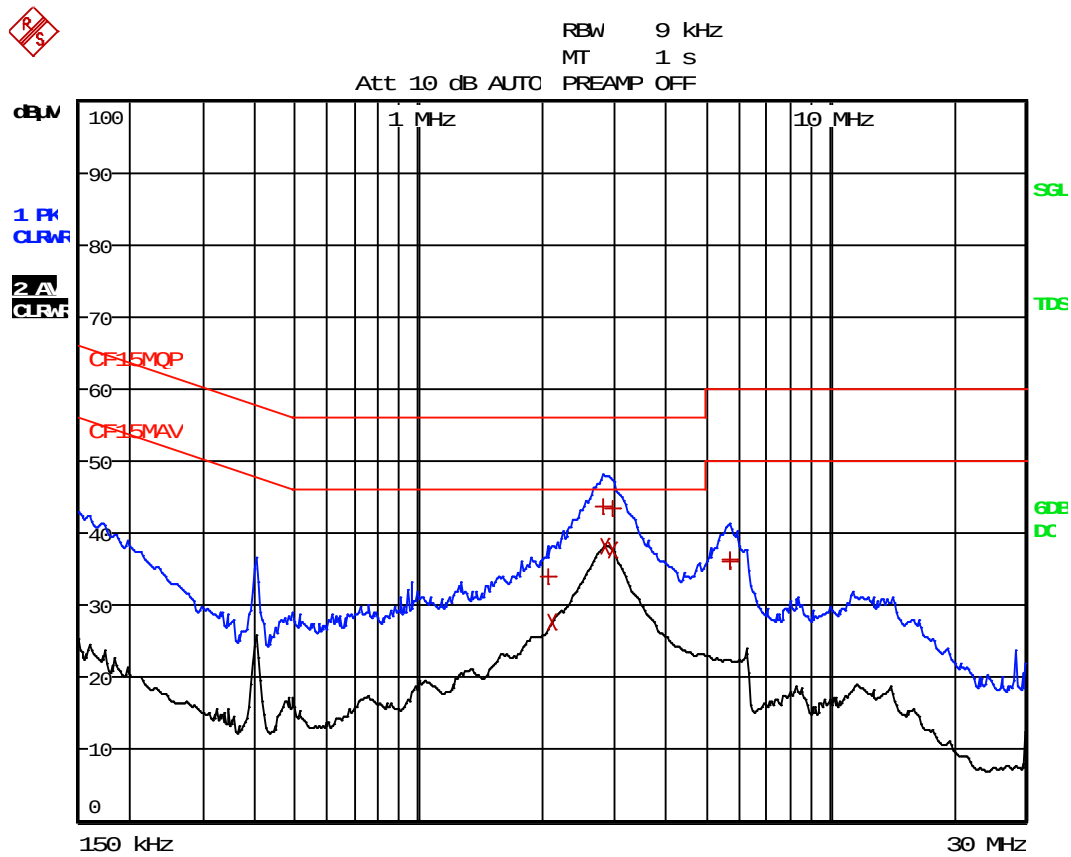
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Worst Case: Handset and Charger ringing and charging mode with Meic adaptor

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	154.5 kHz	50.14	L1	-15.61
1 Quasi Peak	213 kHz	45.11	L1	-17.97
1 Quasi Peak	330 kHz	42.88	L1	-16.56
2 CISPR Average	330 kHz	33.10	L1	-16.34
1 Quasi Peak	447 kHz	36.46	L1	-20.47
1 Quasi Peak	1.0095 MHz	33.18	L1	-22.81
2 CISPR Average	1.0095 MHz	25.12	L1	-20.87
1 Quasi Peak	1.41 MHz	34.71	L1	-21.28
2 CISPR Average	1.473 MHz	29.45	N	-16.54
2 CISPR Average	1.959 MHz	6.59	N	-39.40
1 Quasi Peak	1.9635 MHz	9.51	N	-46.48
2 CISPR Average	2.2695 MHz	5.66	L1	-40.33
1 Quasi Peak	2.391 MHz	10.08	L1	-45.91
1 Quasi Peak	2.994 MHz	9.85	N	-46.14

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Worst Case: Handset and Charger ringing and charging mode with Baijunda adaptor



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Worst Case: Handset and Charger ringing and charging mode with Baijunda adaptor

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	2.0805 MHz	34.02	L1	-21.97
2 CISPR Average	2.121 MHz	27.75	L1	-18.24
1 Quasi Peak	2.8275 MHz	43.73	N	-12.26
2 CISPR Average	2.859 MHz	38.17	L1	-7.82
1 Quasi Peak	2.958 MHz	43.40	N	-12.59
2 CISPR Average	2.9805 MHz	37.63	N	-8.36
1 Quasi Peak	5.721 MHz	36.27	L1	-23.72
1 Quasi Peak	5.739 MHz	36.06	N	-23.93

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5.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Biconical Antenna
Registration No.	EW-3156	EW-2253	EW-0571
Manufacturer	R&S	R&S	EMCO
Model No.	ESR26	FSP40	3104C
Calibration Date	August 01, 2019	November 18, 2019	July 23, 2019
Calibration Due Date	August 01, 2020	November 18, 2020	January 23, 2021

Equipment	Log Periodic Antenna	BiConiLog Antenna (30MHz - 6GHz)	Double Ridged Guide Antenna
Registration No.	EW-0447	EW-3408	EW-1133
Manufacturer	EMCO	EMCO	EMCO
Model No.	3146	3142E	3115
Calibration Date	September 25, 2019	April 25, 2019	November 29, 2018
Calibration Due Date	May 25, 2021	October 25, 2020	May 29, 2020

2) Conducted Emissions Test

Equipment	EMI Test Receiver	Artificial Mains Network	RF Cable 9kHz to 1000MHz
Registration No.	EW-2251	EW-2874	EW-3170
Manufacturer	R&S	R&S	N/A
Model No.	ESCI	ENV-216	9kHz to 1000MHz
Calibration Date	June 21, 2019	July 05, 2019	May 28, 2019
Calibration Due Date	June 21, 2020	July 05, 2020	May 28, 2020

END OF TEST REPORT