



TEST REPORT

Report Number: C21T00079-EMC01-V00

Applicant	Doro AB
Product Name	4G Bar Feature Phone
Model Name	DFB-0370
Brand Name	Doro
FCC ID	WS5DFB0370

Industrial Internet Innovation Center (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC Part 15, Subpart B, ANSI C63.4-2014.

Prepared by

Reviewed by

Approved by

Issue Date

2021-10-14

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

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Test Laboratory:

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

Add: Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China

Tel: +86 21 68866880



Revision Version

Report Number	Revision	Date	Memo
C21T00079-EMC01-V00	00	2021-10-14	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Primary Lab:

Company Name	Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Address	Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China
FCC Registration No.	958356
FCC Designation No.	CN1177

Subcontracting Lab #1:

Company Name	N/A
Address	N/A

1.2. Testing Environment

Normal Temperature	15°C~35°C
Relative Humidity	30%RH~60%RH
Supply Voltage	120V/60Hz

1.3. Project Information

Project Leader	Xu Yuting
Testing Start Date	2021-08-26
Testing End Date	2021-10-09

2. Client Information

2.1. Applicant Information

Company Name	Doro AB
Address	Jörgen Kocksgatan 1B, SE 211 20 MALMÖ, SWEDEN
Telephone	+46 46 280 50 00

2.2. Manufacturer Information

Company Name	Doro AB
Address	Jörgen Kocksgatan 1B, SE 211 20 MALMÖ, SWEDEN
Telephone	+46 46 280 50 00

3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	4G Bar Feature Phone
Model name	DFB-0370
Supported Radio Technology and Bands	GSM900/GSM1800/GSM1900 WCDMA BAND I / VIII LTE BAND 1/3/7/8/20/28/38 BT EDR FM
Hardware Version	V01(HW code: 2011/2021)
Software Version	DFB-0370_SL272_N_S01A_V01_0_M210723_CE

Note: Photographs of EUT are shown in ANNEX B of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
N04 (Main Supply)	354661370009111	V01(HW code: 2011)	DFB-0370_SL272_N_S01A_V01_0_M210723_CE	2021/07/22
N39 (Secondary Supply)	354661370011141	V01(HW code: 2021)	DFB-0370_SL272_N_S01A_V01_0_M210723_CE	2021/10/08

*EUT ID: is internally used to identify the test sample in the lab.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
CA03	Adapter	A31A-050055U-EU1	N/A
CB06	Adapter	S003ATB0500055	N/A
CC01	Adapter	A806A-050100U-UK1	N/A
CD01	Cradle	DFB-0370	N/A
UA02	USB Cable	M039B0800150	N/A
AA08	Earphone	1317-3277-3.5MM	N/A
AB06	Earphone	JWEP0944-M01R	N/A
BA12	Battery	DBO-1000A	N/A
BB12	Battery	DBAA-1000A	N/A
AE1	Notebook PC	DELL Latitude E6510	N/A
AE2	Desktop PC	OptiPlex 790 DT	X8RP1 A01 APCC

AE3	LAN Cable	N/A	N/A
AE4	VGA Cable	N/A	N/A
AE5	RS232 Cable	N/A	N/A
AE6	Keyboard	KB212-B	CN-0Y88XT-65890-12I-005Q-A00
AE7	Mouse	MS111-P	CN-011D3V-71581-19J-1A64
AE8	Monitor	Dell E1709Wc	N/A
AE9	Micro SD Card	Kingston SDC4/4GB 77	N/A

*AE ID: is internally used to identify the test sample in the lab.

*The AE is provided by the lab.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	2020/10/1
ANSI C63.4	Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. Test Summary

5.1. Summary of Test Results

Items	Test List	Standard	Verdict
1	Radiated Emission	15.109(a)	Pass
2	AC Conducted Emission	15.107(a)	Pass

5.2. Statements

The DFB-0370, manufactured by Doro AB is a new product for testing.

There are two configuration samples in this project. We mainly test Main supply, secondary supply samples tested the worst mode for main supply and recorded the worst mode in the report.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

The description of the differences between the models is updated as follows:

DFB-0370 (Doro5860)	Configure 1	Configure 2
Item	2011	2021
Flash	DOS DS35M1GA-IB	ESMT F50D1G41LB-83YG2ME

5.3. Decision of final test mode

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration modes are as the following:

N04 (Main Supply):

Test Item	Test setup and operating modes
Radiated emission	Mode 1: GSM1900 idle mode+Camera+CA01+AA01+BA15 Mode 2: GSM1900 idle mode+Camera+CB01+AA04+BB02 Mode 3: LTE BAND 7 idle mode+Camera+CA01+AA04+BB02 Mode 4: LTE BAND 7 idle mode+Camera+CC03+UA01+AA01+BA15 Mode 5: LTE BAND 38 idle mode+Camera+CB01+AA01+BA15 Mode 6: LTE BAND 38 idle mode+Camera+CC03+UA01+AA04+BB02 Mode 7: LTE BAND 38 idle mode+Camera+CD01+CB01 +AA01+BA15 Mode 8: DATA LINK mode+UA01+BA15 Mode 9: DATA LINK mode+UA01+BB02 Mode 10: FM mode+ AA01+BA15 Mode 11: FM mode+ AA04+BB02
AC Conducted Emission	Mode 1: GSM1900 idle mode+Camera+CA01+AA01+BA15 Mode 2: GSM1900 idle mode+Camera+CB01+AA04+BB02 Mode 3: LTE BAND 7 idle mode+Camera+CA01+AA04+BB02 Mode 4: LTE BAND 7 idle mode+Camera+CC03+UA01+AA01+BA15 Mode 12: LTE BAND 7 idle mode+camera+CD01+CA01+AA04+BB02 Mode 5: LTE BAND 38 idle mode+Camera+CB01+AA01+BA15 Mode 6: LTE BAND 38 idle mode+Camera+CC03+UA01+AA04+BB02 Mode 8: DATA LINK mode+UA01+BA15 Mode 9: DATA LINK mode+UA01+BB02 Mode 10: FM mode+ AA01+BA15 Mode 11: FM mode+ AA04+BB02

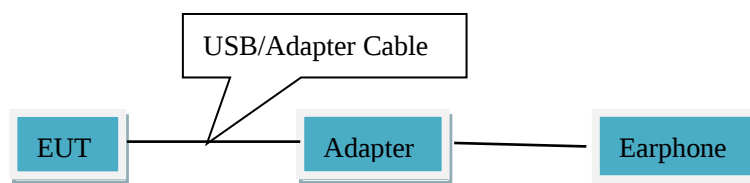
N39 (Secondary Supply):

Test Item	Test setup and operating modes
Radiated emission	Mode 5: LTE BAND 38 idle mode+Camera+CB01+AA01+BA15 Mode 8: DATA LINK mode+UA01+BA15 Mode 9: DATA LINK mode+UA01+BB02
AC Conducted Emission	Mode 3: LTE BAND 7 idle mode+Camera+CA01+AA04+BB02

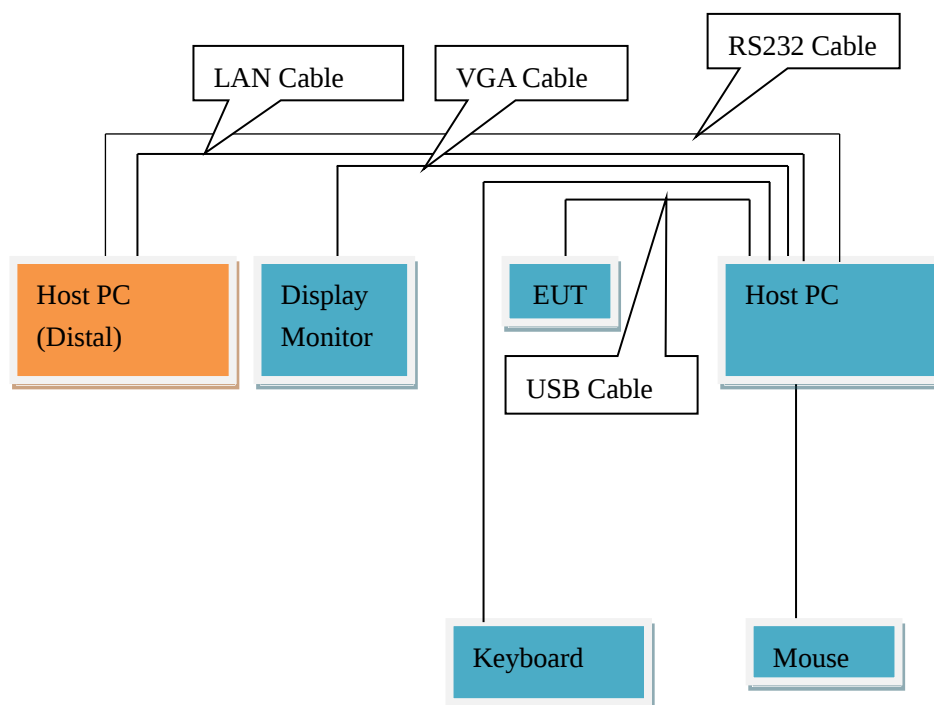
5.4. EUT System Operation

1. Connect the EUT with AE.
2. Setup the EUT according to the standard.
3. DATALINK mode: Data application transferred mode between EUT and PC through USB Cable.
4. Start testing and monitoring the function
5. The test specification for FM function: the EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

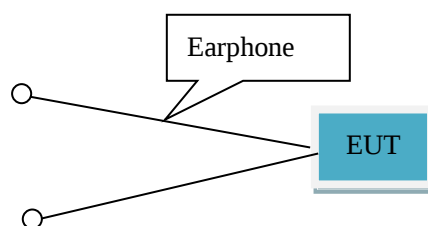
5.5. EUT Connection Diagram of Test System



<Figure 1> Mode 1~7,12



<Figure 2> Mode 8,9



<Figure 3> Mode 10~11

6. Measurement Results

6.1. Radiated Emission

Method of Measurement

- For 30MHz -1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.
- For 1000MHz-18000MHz, the maximal emission value was acquired by adjusting the antenna height, the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

Limits for Radiated Emission at a measuring distance of 3m

Table 1:

Frequency Range (MHz)	Quasi-Peak (dB μ V/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Table 2:

Frequency Range (MHz)	Peak (dB μ V/m)	Average (dB μ V/m)
Above 1000	74	54

Table 3:

Test conditions

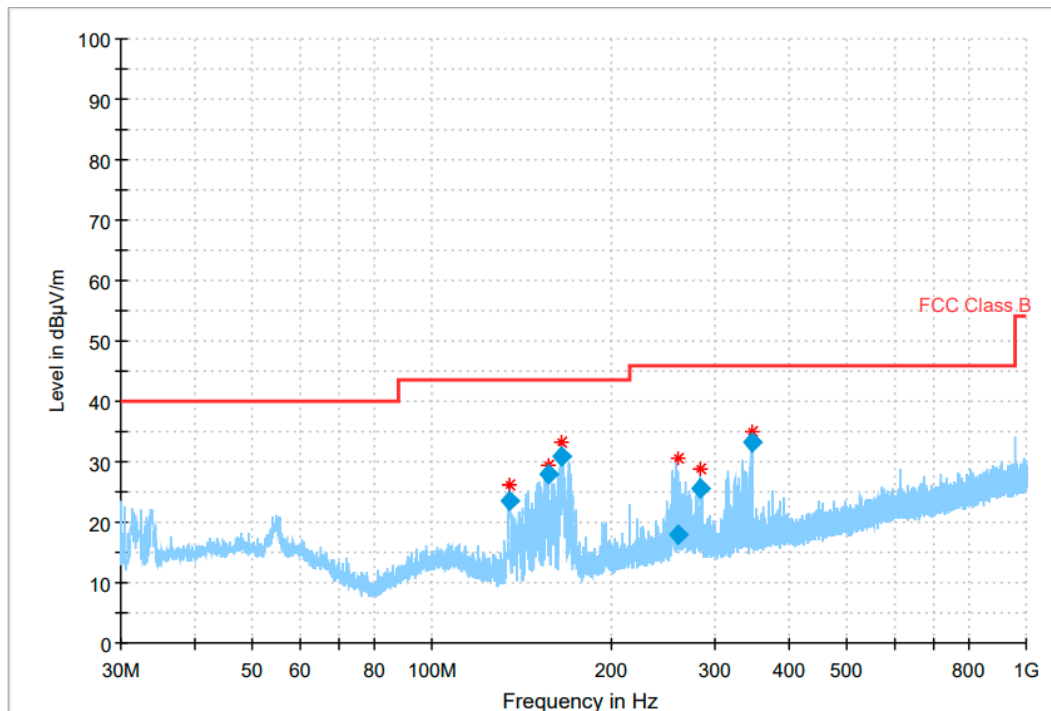
Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	Auto
1000-18000	1MHz/3MHz	Auto

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.

N04 (Main Supply):

Mode 9: DATA LINK mode+UA01+BB02 (30M-1GHz)



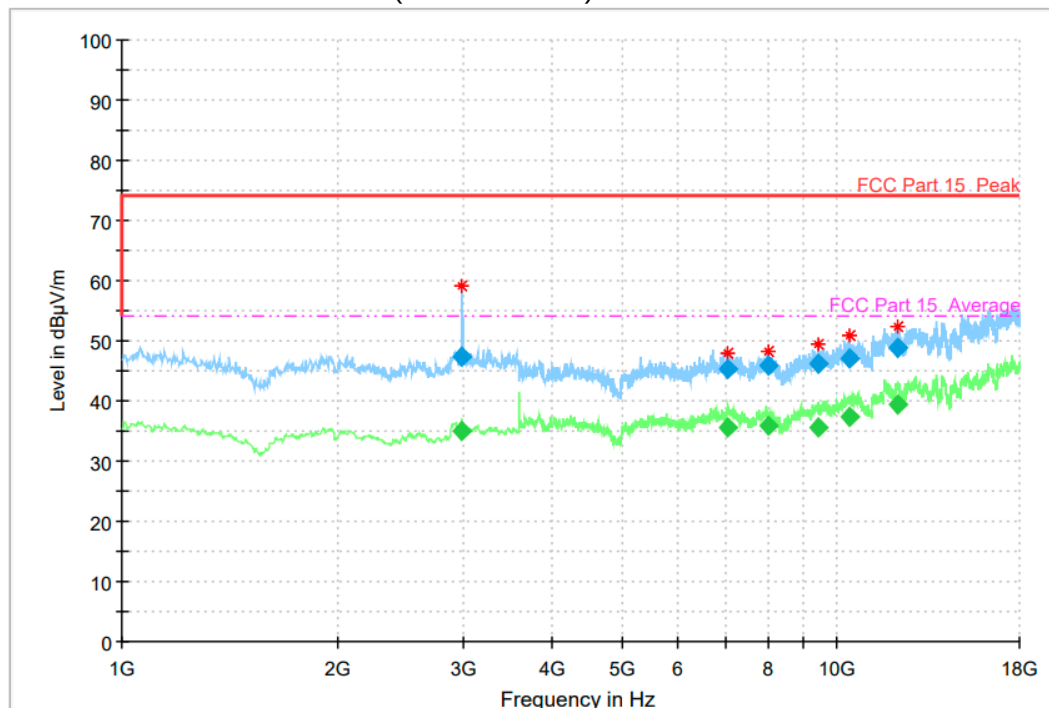
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
135.217029	23.48	43.50	20.02	1000.0	120.000	100.0	V	72.0	-16.7
156.801869	27.86	43.50	15.64	1000.0	120.000	100.0	V	101.0	-16.6
165.653243	30.98	43.50	12.52	1000.0	120.000	100.0	V	52.0	-16.0
258.877461	18.08	46.00	27.92	1000.0	120.000	100.0	V	133.0	-11.8
284.033464	25.70	46.00	20.30	1000.0	120.000	100.0	V	144.0	-11.4
344.801357	33.14	46.00	12.86	1000.0	120.000	100.0	H	111.0	-9.7

Note:

1. Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

Mode 9: DATA LINK mode+UA01+BB02 (1GHz –18GHz)

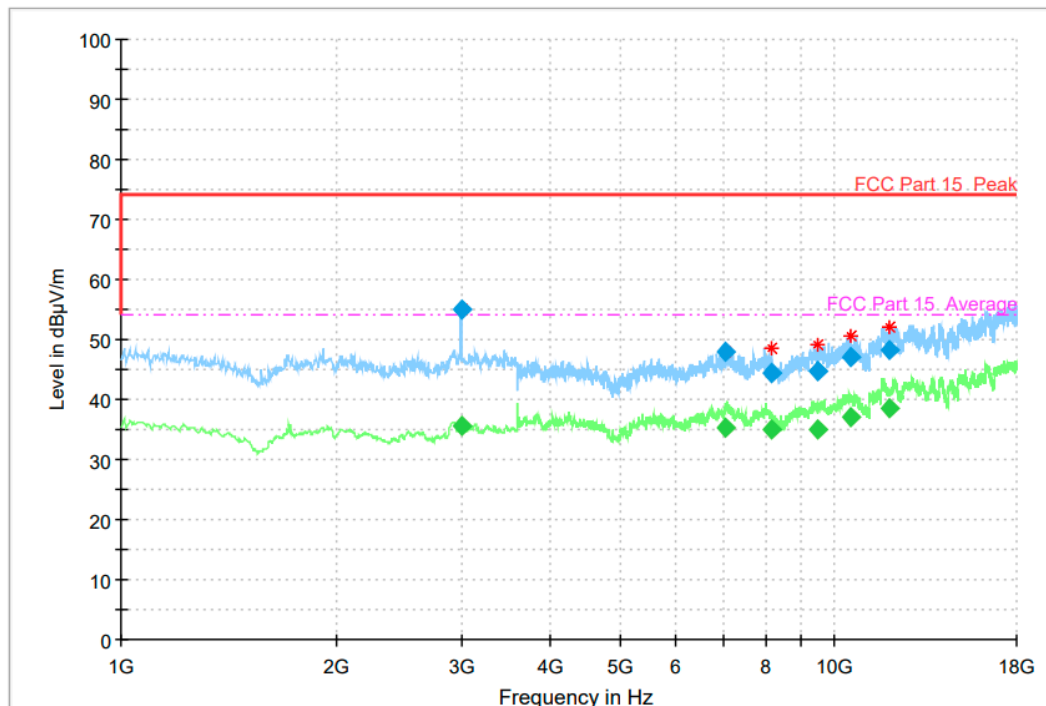


Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2989.80000	47.47	---	74.00	26.53	1.0	1000.00	100.0	H	107.0	1.9
2989.80000	---	35.07	54.00	18.93	1.0	1000.00	100.0	H	107.0	1.9
7032.60000	45.19	---	74.00	28.81	1.0	1000.00	100.0	H	38.0	4.4
7032.60000	---	35.50	54.00	18.50	1.0	1000.00	100.0	H	38.0	4.4
8032.20000	45.98	---	74.00	28.02	1.0	1000.00	200.0	H	357.0	4.4
8032.20000	---	35.77	54.00	18.23	1.0	1000.00	200.0	H	357.0	4.4
9412.00000	---	35.50	54.00	18.50	1.0	1000.00	100.0	H	249.0	5.9
9412.00000	46.11	---	74.00	27.89	1.0	1000.00	100.0	H	249.0	5.9
10425.2000	---	37.39	54.00	16.61	1.0	1000.00	100.0	H	232.0	7.6
10425.2000	47.17	---	74.00	26.83	1.0	1000.00	100.0	H	232.0	7.6
12148.8000	48.80	---	74.00	25.20	1.0	1000.00	200.0	H	296.0	10.5
12148.8000	---	39.42	54.00	14.58	1.0	1000.00	200.0	H	296.0	10.5

Note:

1. Emission level (peak or average)=Raw value by receiver + Corr (Antenna factor+ cable loss- preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.



Final Result 1

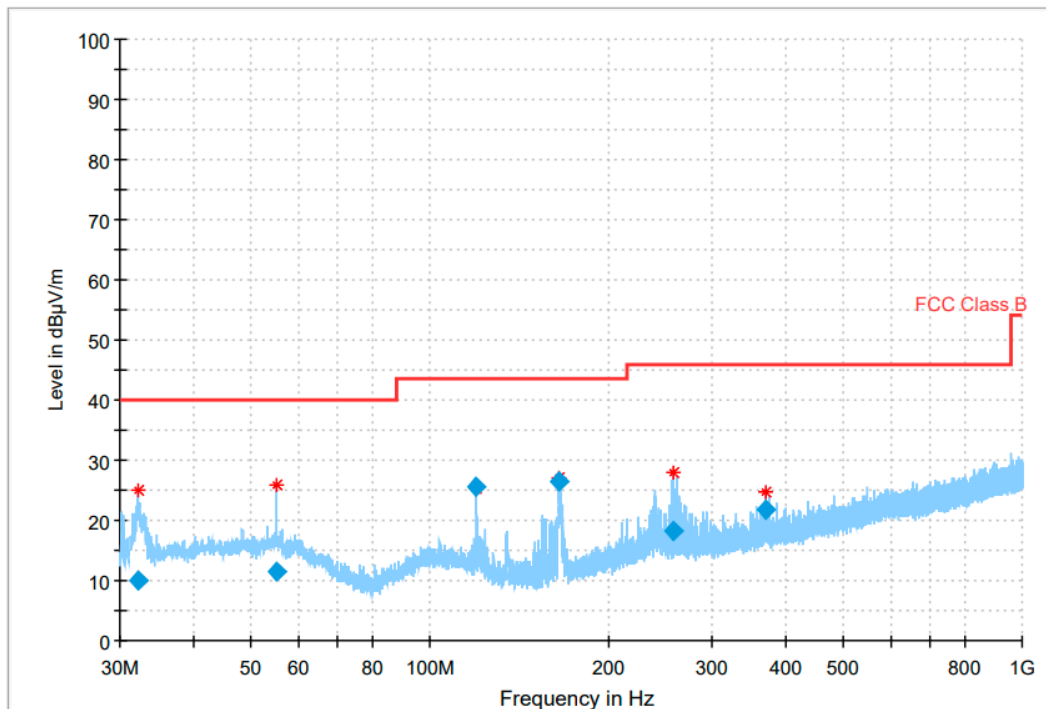
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2998.60000	---	35.48	54.00	18.52	1.0	1000.000	200.0	V	296.0	1.7
2998.60000	54.91	---	74.00	19.09	1.0	1000.000	200.0	V	296.0	1.7
7032.00000	---	35.39	54.00	18.61	1.0	1000.000	100.0	V	64.0	4.4
7032.00000	47.95	---	74.00	26.05	1.0	1000.000	100.0	V	64.0	4.4
8147.20000	44.49	---	74.00	29.51	1.0	1000.000	100.0	V	55.0	4.1
8147.20000	---	35.04	54.00	18.96	1.0	1000.000	100.0	V	55.0	4.1
9496.40000	44.82	---	74.00	29.18	1.0	1000.000	200.0	V	70.0	5.6
9496.40000	---	34.97	54.00	19.03	1.0	1000.000	200.0	V	70.0	5.6
10512.2000	47.18	---	74.00	26.82	1.0	1000.000	200.0	V	87.0	7.5
10512.2000	---	37.20	54.00	16.80	1.0	1000.000	200.0	V	87.0	7.5
11952.4000	48.14	---	74.00	25.86	1.0	1000.000	100.0	V	115.0	9.7
11952.4000	---	38.39	54.00	15.61	1.0	1000.000	100.0	V	115.0	9.7

Note:

1. Emission level (peak or average) = Raw value by receiver + Corr (Antenna factor+ cable loss- preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

N39 (Secondary Supply):

Mode 8: DATA LINK mode+UA01+BA15 (30M-1GHz)



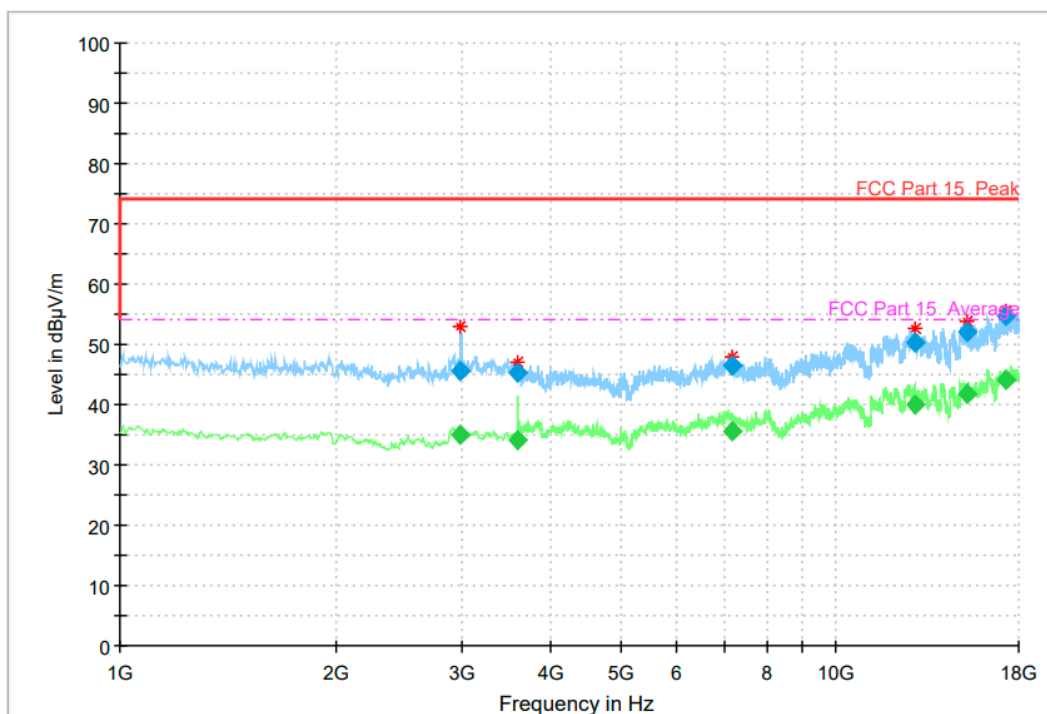
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.115656	9.93	40.00	30.07	1000.0	120.000	99.0	V	153.0	-14.4
55.228320	11.46	40.00	28.54	1000.0	120.000	180.0	H	52.0	-12.2
119.994931	25.65	43.50	17.85	1000.0	120.000	100.0	V	314.0	-15.6
165.687832	26.52	43.50	16.98	1000.0	120.000	104.0	V	340.0	-16.0
257.848120	18.34	46.00	27.66	1000.0	120.000	125.0	H	157.0	-11.8
368.639939	21.77	46.00	24.23	1000.0	120.000	100.0	H	267.0	-9.2

Note:

1. Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

Mode 8: DATA LINK mode+UA01+BA15 (1GHz –18GHz)

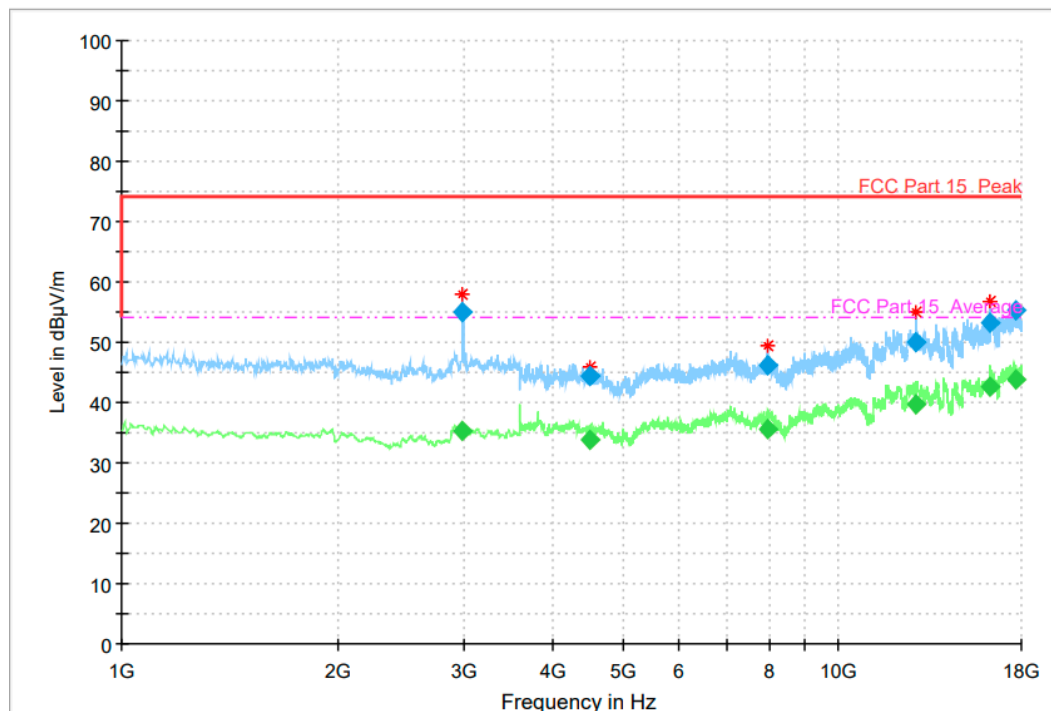


Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimu th (deg)	Corr. (dB)
2991.40000	45.71	---	74.00	28.29	1.0	1000.000	200.0	H	226.0	1.8
2991.40000	---	35.04	54.00	18.96	1.0	1000.000	200.0	H	226.0	1.8
3584.20000	45.22	---	74.00	28.78	1.0	1000.000	100.0	H	209.0	1.1
3584.20000	---	34.23	54.00	19.77	1.0	1000.000	100.0	H	209.0	1.1
7153.80000	46.40	---	74.00	27.60	1.0	1000.000	200.0	H	226.0	4.1
7153.80000	---	35.70	54.00	18.30	1.0	1000.000	200.0	H	226.0	4.1
12868.6000	50.33	---	74.00	23.67	1.0	1000.000	200.0	H	356.0	11.2
12868.6000	---	40.01	54.00	13.99	1.0	1000.000	200.0	H	356.0	11.2
15238.6000	---	41.77	54.00	12.23	1.0	1000.000	100.0	H	193.0	14.2
15238.6000	52.01	---	74.00	21.99	1.0	1000.000	100.0	H	193.0	14.2
17228.8000	---	44.25	54.00	9.75	1.0	1000.000	100.0	H	40.0	17.6
17228.8000	54.73	---	74.00	19.27	1.0	1000.000	100.0	H	40.0	17.6

Note:

1. Emission level (peak or average)=Raw value by receiver + Corr (Antenna factor+ cable loss- preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.



Final Result 1

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2988.40000	---	35.23	54.00	18.77	1.0	1000.000	100.0	V	0.0	1.9
2988.40000	55.09	---	74.00	18.91	1.0	1000.000	100.0	V	0.0	1.9
4506.40000	---	33.92	54.00	20.08	1.0	1000.000	100.0	V	118.0	1.3
4506.40000	44.29	---	74.00	29.71	1.0	1000.000	100.0	V	118.0	1.3
7970.00000	---	35.70	54.00	18.30	1.0	1000.000	100.0	V	142.0	4.4
7970.00000	46.16	---	74.00	27.84	1.0	1000.000	100.0	V	142.0	4.4
12811.80000	50.00	---	74.00	24.00	1.0	1000.000	200.0	V	302.0	11.0
12811.80000	---	39.78	54.00	14.22	1.0	1000.000	200.0	V	302.0	11.0
16304.40000	53.24	---	74.00	20.76	1.0	1000.000	200.0	V	302.0	16.1
16304.40000	---	42.68	54.00	11.32	1.0	1000.000	200.0	V	302.0	16.1
17690.40000	---	43.87	54.00	10.13	1.0	1000.000	200.0	V	276.0	17.9
17690.40000	55.37	---	74.00	18.63	1.0	1000.000	200.0	V	276.0	17.9

Note:

1. Emission level (peak or average) = Raw value by receiver + Corr (Antenna factor+ cable loss- preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

6.2. AC Conducted Emission

Method of Measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.3

Limit of AC Conducted Emission

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

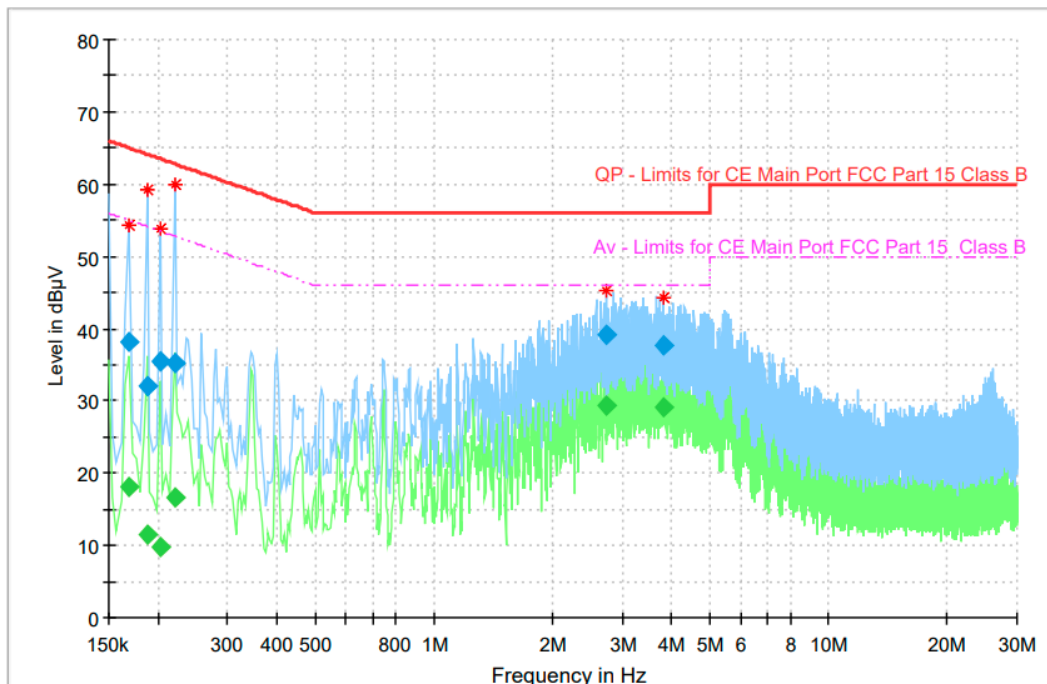
Test Condition in Charging Mode

Voltage (V)	Frequency (Hz)	RBW	Sweep Time (s)
120	60	9 kHz	Auto

Test Results

N04 (Main Supply):

Mode 4: LTE BAND 7 idle mode+Camera+CC03+UA01+AA01+BA15



Final Result 1

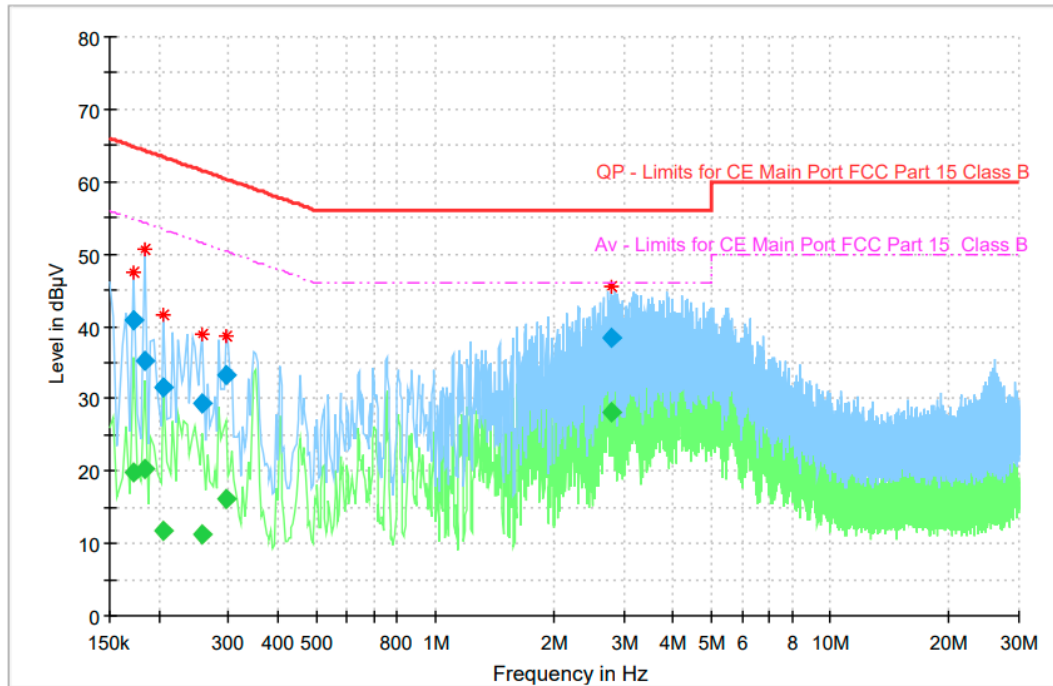
Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.168656	---	18.00	55.03	37.03	15000.0	9.000	L1	ON	9.6
0.168656	38.05	---	65.03	26.98	15000.0	9.000	L1	ON	9.6
0.187313	---	11.58	54.16	42.58	15000.0	9.000	L1	ON	9.6
0.187313	32.13	---	64.16	32.02	15000.0	9.000	L1	ON	9.6
0.202238	---	9.80	53.52	43.71	15000.0	9.000	L1	ON	9.6
0.202238	35.43	---	63.52	28.09	15000.0	9.000	L1	ON	9.6
0.220894	---	16.67	52.79	36.11	15000.0	9.000	L1	ON	9.6
0.220894	35.18	---	62.79	27.60	15000.0	9.000	L1	ON	9.6
2.735756	---	29.39	46.00	16.61	15000.0	9.000	N	ON	9.7
2.735756	39.03	---	56.00	16.97	15000.0	9.000	N	ON	9.7
3.806625	---	29.19	46.00	16.81	15000.0	9.000	N	ON	9.7
3.806625	37.74	---	56.00	18.26	15000.0	9.000	N	ON	9.7

Note:

1. Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.
4. L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.

N39 (Secondary Supply):

Mode 4: LTE BAND 7 idle mode+Camera+CA01+AA04+BB02



Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.172388	---	19.85	54.85	35.00	15000.0	9.000	L1	ON	9.6
0.172388	40.93	---	64.85	23.92	15000.0	9.000	L1	ON	9.6
0.183581	---	20.39	54.32	33.94	15000.0	9.000	N	ON	9.6
0.183581	35.29	---	64.32	29.04	15000.0	9.000	N	ON	9.6
0.205969	31.45	---	63.37	31.91	15000.0	9.000	L1	ON	9.6
0.205969	---	11.64	53.37	41.72	15000.0	9.000	L1	ON	9.6
0.258206	---	11.35	51.49	40.14	15000.0	9.000	L1	ON	9.6
0.258206	29.41	---	61.49	32.08	15000.0	9.000	L1	ON	9.6
0.295519	33.30	---	60.37	27.07	15000.0	9.000	L1	ON	9.6
0.295519	---	16.11	50.37	34.26	15000.0	9.000	L1	ON	9.6
2.784263	---	28.23	46.00	17.77	15000.0	9.000	N	ON	9.7
2.784263	38.35	---	56.00	17.65	15000.0	9.000	N	ON	9.7

Note:

1. Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.
4. L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.

7. Test Equipment List

7.1. Radiated Emission Equipment list

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Test Receiver	ESU40	100307	R&S	2021-03-03	1 year
2	Universal Radio Communication Tester	CMU200	123102	R&S	2021-05-10	1 year
3	Universal Radio Communication Tester	CMW500	104178	R&S	2021-05-10	1 year
4	Trilog Antenna	VULB9163	VULB9163-515	Schwarzbeck	2021-02-03	2 years
5	Double Ridged Guide Antenna	ETS-3117	00135890	ETS	2020-02-28	2 years
6	Signal Generator	SMF 100A	102314	R&S	2021-05-10	1 year
7	EMI Test Software	EMC32 V9.15	N/A	R&S	N/A	N/A

7.2. AC Conducted Emission Equipment list

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Test Receiver	ESCI	101235	R&S	2021-05-10	1 year
2	Universal Radio Communication Tester	CMU200	123102	R&S	2021-05-10	1 year
3	Universal Radio Communication Tester	CMW500	104178	R&S	2021-05-10	1 year
4	2-Line V-Network	ENV216	101380	R&S	2021-03-20	1 year
5	EMI Test Software	EMC32 V10.35.02	N/A	R&S	N/A	N/A

Annex A: Measurement Uncertain

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Case	Uncertainty
Radiated Emission 30MHz-1000MHz	4.96 dB
Radiated Emission 1000MHz-18000MHz	5.18 dB
AC Conducted Emission	3.66 dB

Annex B: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

INDUSTRIAL INTERNET INNOVATION CENTER (SHANGHAI) CO., LTD.

Shanghai, People's Republic of China

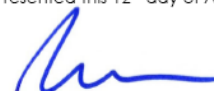
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 12th day of April 2021.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*****END OF REPORT*****