TEST REPORT

Report No.: SHE22070051-02GE Date: 2022-08-26

Applicant	:	Kunshan Quanbao Electronic Co., LTD
Address of Applicant	:	515 Lidu Road, Qiandeng Town, Kunshan City, Jiangsu Province, China
Product Name	:	Card reader module
Brand Name	:	QUAN BAO
Model No.	:	QB-RS663
FCC ID	:	2A78TQBRS663
IC ID	:	28888-QBRS663
Standards	:	FCC CFR47 Part 15, Subpart C RSS-Gen(Issue 5, Feb. 2021) RSS-210(Issue 10, Dec. 2019)
Date of Receipt	:	2022-07-19
Date of Test	:	2022-07-27
Date of Issue	:	2022-08-26

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Testing Laboratory Information

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Applicant Information

Applicant Company Name	Kunshan Quanbao Electronic Co., LTD
Address	515 Lidu Road, Qiandeng Town, Kunshan City, Jiangsu Province, China
Contact Person	Wang Shaobin
Telephone	18168708767
Fax	0512-57279908
Email	wangshaobin@ksqbdz.com
Manufacturer	/
Manufacturer Address	/

1.3 EUT Description

Product Name	Card reader module
Under Test Model Name	QB-RS663
Series Model Name	/
Description of Model name differentiation	/
Brand Name	/
Hardware version	QB-RS663-V0.1A
Software version	QB_RS663_V1.09
Operating Frequency	13.56MHz
Operating Temperature Range	-40~85℃
Operating Voltage Range	9~12V
Modulation Type	ASK
Antenna Type	inductance coil Antenna
Antenna Gain	2dBi

2 Summary of Test Result

2.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-16 Edition)	Miscellaneous Wireless Communications Services
2	RSS-Gen (Issue 5, Feb. 2021)	General Requirements for Compliance of Radio Apparatus
3	RSS-210 (Issue 10, Dec. 2019)	Licence-Exempt Radio Apparatus: Category I Equipment
4	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
5	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Remark: All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

2.2 Test Result

No.	Description	FCC Rule	IC Rule	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-Gen 6.8	Clause 4.1.1	PASS
2	Frequency Tolerance of carrier signal	15.225 (e)	RSS-210 B.6 (b)	Clause 4.1.2	PASS
3	Emissions Bandwidth	15.215	RSS-Gen 6.7	Clause 4.1.3	PASS
4	Emission within band	15.225 (a), (b), (c)	RSS-210 B.6 (a) (i) (ii) (iii)	Clause 4.1.4	PASS
5	Spurious Emission outside band	15.225 (d) 15.209	RSS-210 B.6 (a) (iv)	Clause 4.1.5	PASS
6	Conducted Emissions	15.207	RSS-Gen 8.8	Clause 4.1.6	PASS

3 General Test Configurations

3.1 Test Environments

During the measurement, the environmental conditions complied with the range listed as below.

Relative Humidity	30% to 60%	
Atmospheric Pressure	100kPa to102kPa	
Temperature	NT (Normal Temperature)	+20°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	DC12V

3.2 Test Equipment List

Instrument	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE & SCHWARZ	FSV40N	101450	2022-06-10	2023-06-09
EMI Test Receiver	ROHDE & SCHWARZ	ESPI3	100173	2022-06-10	2023-06-09
EMI Test Receiver	ROHDE & SCHWARZ	ESR 7	101911	2022-06-10	2023-06-09
V-network	SCHWARZBECK	NSLK 8127	8127-902	2022-06-10	2023-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2023-06-07
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2022-06-10	2023-06-09
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2022-06-10	2023-06-09
Shielded Enclosure 7*4*3 (L*W*H)	CHANGNING	743	N/A	2022-06-10	2023-06-09
Test Software	BL	BL410_E	N/A	N/A	N/A

3.3 Measurement Uncertainty

Measurement	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5dB
	> 1GHz	± 1.5dB
Radiated Emission	9kHz - 30MHz	± 3.54dB
	30MHz - 1GHz	± 3.42dB
	> 1GHz	± 4.20dB
Conducted Emission on AC Mains	9kHz to 30MHz	± 1.71dB

4 Test Set-up and Operation Modes

4.1 Independent Operation Modes

The basic operation modes are:

A. NFC mode(13.56MHz)

B. Off

4.2 Independent Operation Modes

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.3 Special Accessories and Auxiliary Equipment

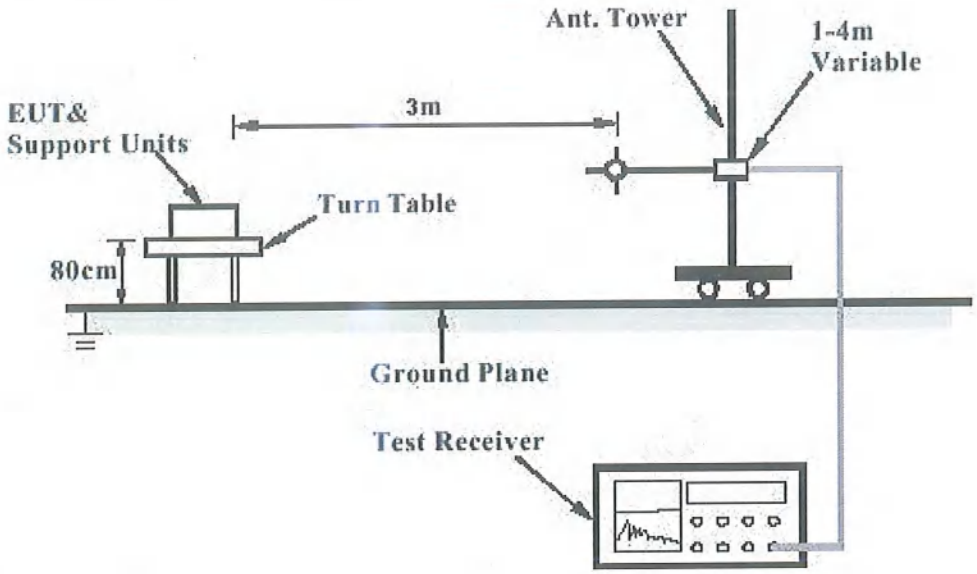
Description	Manufacturer	Model No.	Serial No.
/	/	/	/

4.4 Support Software

Description	Manufacturer	Software Name
/	/	/

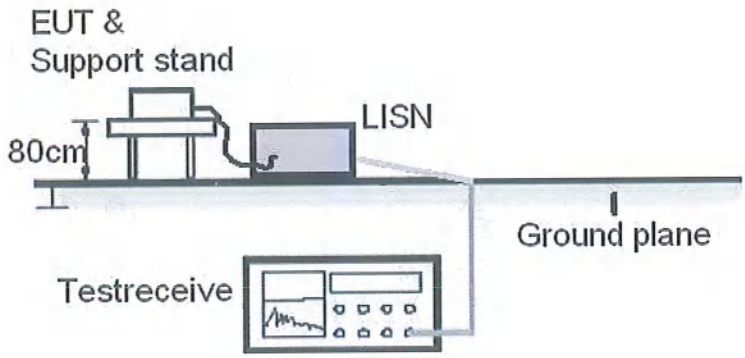
4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 30MHz are done with a table height of 0.8m.

Diagram of Measurement Equipment Configuration for Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.203 RSS-Gen 6.8
Limit	:	the use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has one external antenna, the directional gain of antenna is 2dBi, and the antenna connector is designed with permanent attachment and non consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Frequency tolerance of carrier signal

RESULT: Pass

Test Specification

Test standard	:	FCC part 15.225 (e) RSS-210 B6 (b)
Basic standard	:	ANSI C63.10: 2013
Limit	:	±0.01%
Kind of test site	:	EMC chamber

Test Setup

Date of testing	:	2022-07-27
Input voltage	:	DC12V
Operation mode	:	A
Ambient temperature	:	20°C
Relative humidity	:	50%
Atmospheric pressure	:	102kPa

Refer to following test plots for details of test result

Table 1: Test result of Frequency tolerance of carrier signal

Temperature(°C)	Voltage (V_{DC})	Test result (MHz)	Deviation Frequency (kHz)	Test result (ppm)	Limit(ppm)
-40	12	13.5598602	0.1398	10.30973451	100
-30		13.5598598	0.1402	10.33923304	
-20		13.5598597	0.1403	10.34660767	
-10		13.5598600	0.1400	10.32448378	
0		13.5598597	0.1403	10.34660767	
+10		13.5598594	0.1406	10.36873156	
+20		13.5598596	0.1404	10.3539823	
+30		13.5598596	0.1404	10.3539823	
+40		13.5598589	0.1411	10.40560472	
+50		13.5598589	0.1411	10.40560472	
+60		13.5598588	0.1412	10.41297935	
+85		13.5598587	0.1413	10.42035398	
+20	10.8	13.5598598	0.1402	10.33923304	
+20	13.8	13.5598597	0.1403	10.34660767	

5.1.3 Emissions Bandwidth

RESULT: Pass

Test Specification

Test standard	:	FCC part 15.215 RSS-Gen 6.7
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	EMC chamber

Test Setup

Date of testing	:	2022-07-27
Input voltage	:	DC12V
Operation mode	:	A
Ambient temperature	:	20°C
Relative humidity	:	50%
Atmospheric pressure	:	102kPa

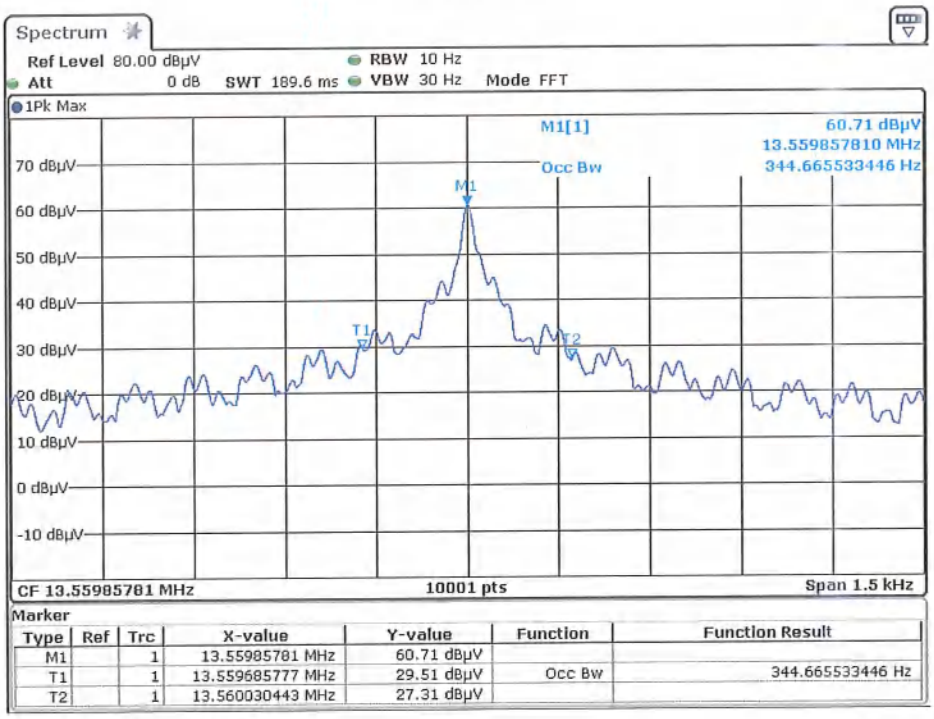
Refer to following test plots for details of test result

Table 2: Test result of Emissions Bandwidth

Test Channel (MHz)	99% Bandwidth (Hz)	20dB Bandwidth (Hz)
13.56	344.67	102.88

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

99% Bandwidth

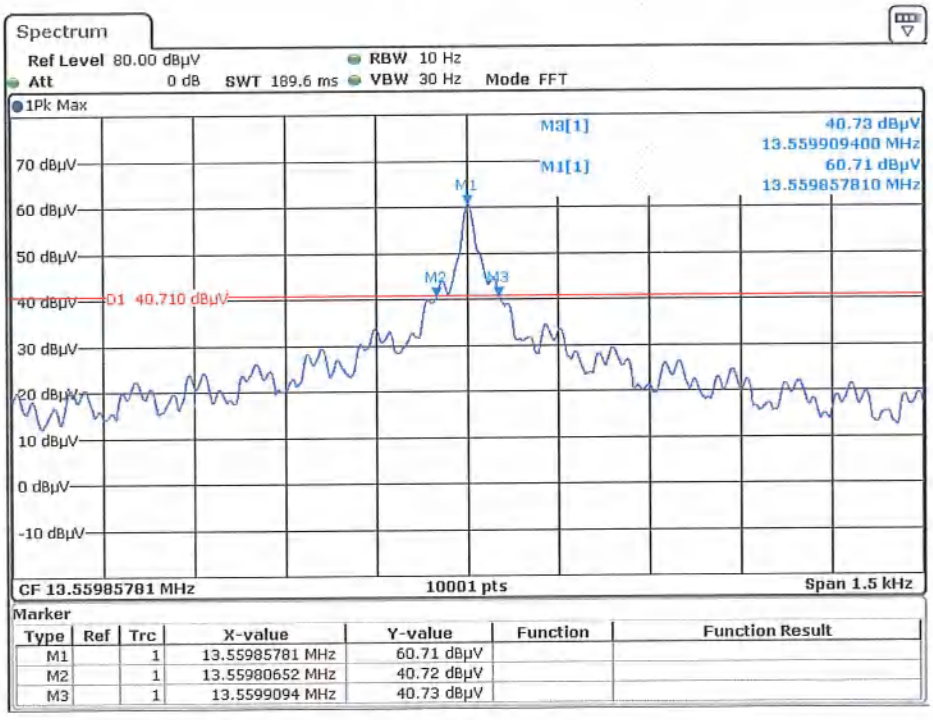


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.55985781 MHz	60.71 dBµV		
T1		1	13.559685777 MHz	29.51 dBµV	Occ Bw	344.665533446 Hz
T2		1	13.560030443 MHz	27.31 dBµV		

Date: 27.JUL.2022 16:15:07

20dB Bandwidth



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.55985781 MHz	60.71 dBµV		
M2		1	13.55980652 MHz	40.72 dBµV		
M3		1	13.5599094 MHz	40.73 dBµV		

Date: 27.JUL.2022 16:17:02

5.1.4 Emission within band

RESULT: Pass

Test Specification

Test standard	:	FCC part 15.225 (a), (b), (c) RSS-210 B.6 (a) (i) (ii) (iii)
Basic standard	:	ANSI C63.10: 2013
Limit	:	FCC part 15.225 (a), (b), (c)
Kind of test site	:	EMC chamber

Test Setup

Date of testing	:	2022-07-27
Input voltage	:	DC12V
Operation mode	:	A
Ambient temperature	:	20°C
Relative humidity	:	50%
Atmospheric pressure	:	102kPa

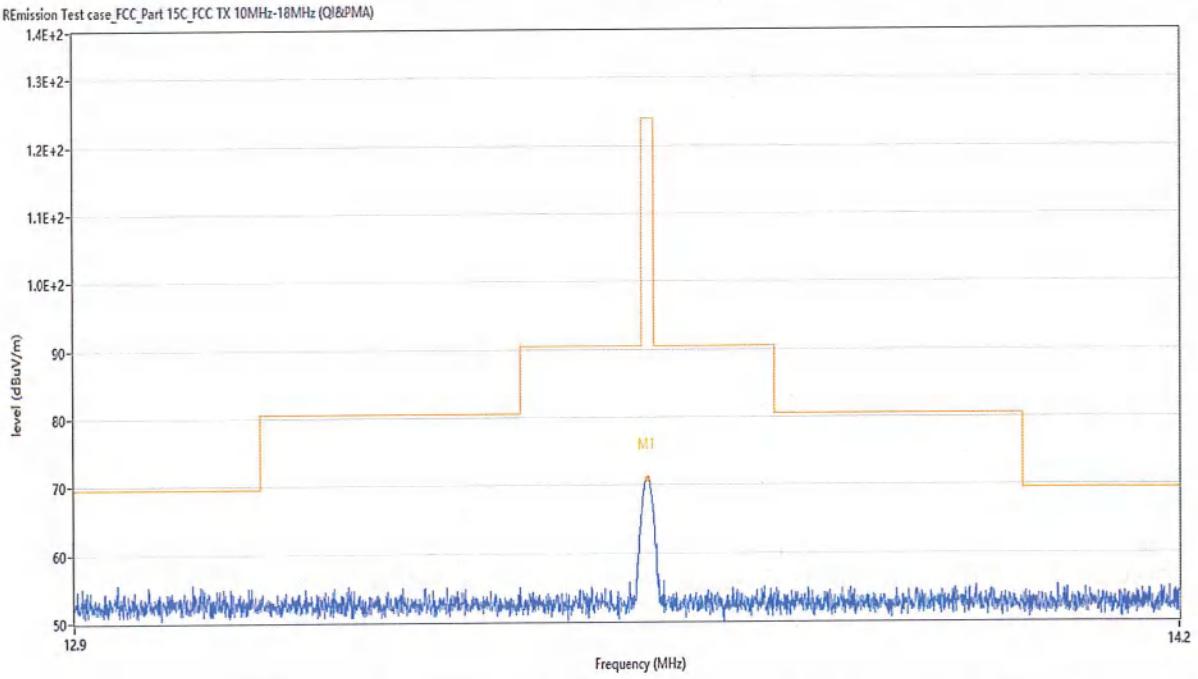
Refer to following test plots for details of test result

Table 3: Test result of Emission within band

Test Channel (MHz)	Test Polarization	Field Strength (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
13.56	X	70.98	124.0	-53.02

Note: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Frequency Range:	12.9-14.2kHz	Polarization:	X



		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	13.560	71.38	20.86	124.0	-52.62	Peak	26.00	100	Vertical	Pass
1*	13.560	70.98	20.86	124.0	-53.02	QP	26.00	100	Vertical	Pass

5.1.5 Spurious Emission outside band

RESULT: **Pass**

Test Specification

Test standard	:	FCC part 15.225 (d) RSS-210 B.6 (a) (iv)
Basic standard	:	ANSI C63.10: 2013
Limit	:	FCC part 15.209 (a)
Kind of test site	:	EMC chamber

Test Setup

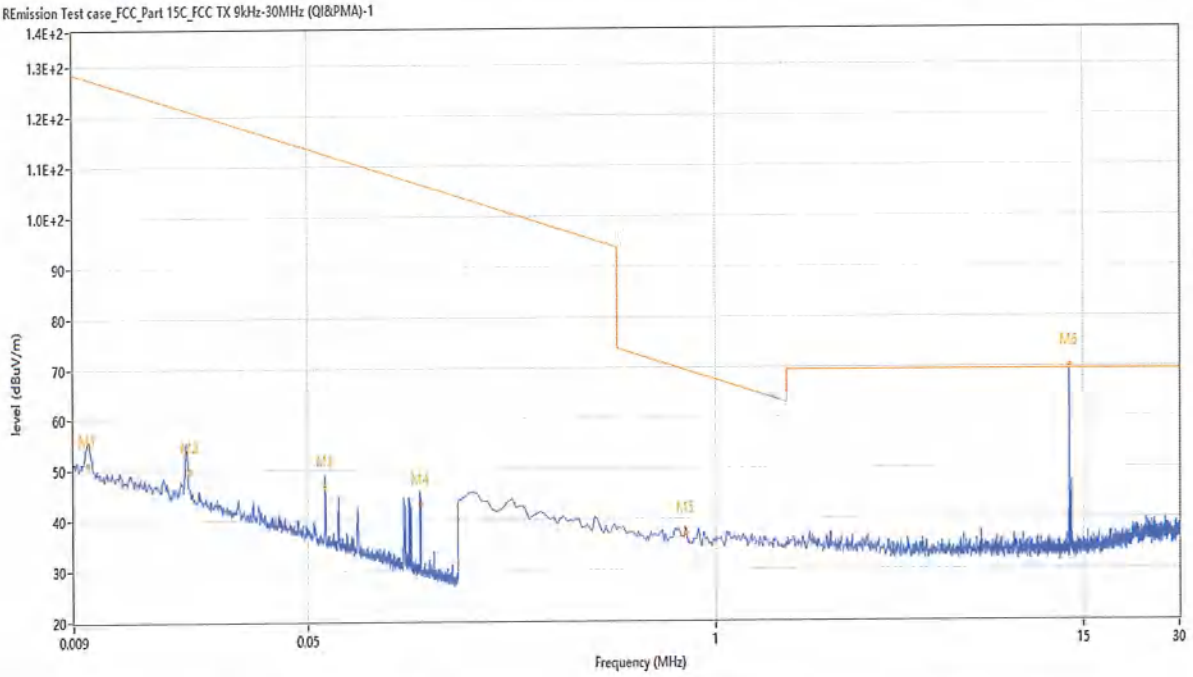
Date of testing	:	2022-07-27
Input voltage	:	DC12V
Operation mode	:	A
Ambient temperature	:	20°C
Relative humidity	:	50%
Atmospheric pressure	:	102kPa

Refer to following test plots for details of test result

TEST REPORT

Note: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Frequency Range:	9k-30MHz	Polarization:	X



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.010	55.63	19.30	127.6	-71.97	Peak	10.50	100	X	Pass
1*	0.010	50.99	19.30	127.6	-76.61	QP	10.50	100	X	Pass
2	0.021	54.96	20.20	121.3	-66.34	Peak	31.30	100	X	Pass
2*	0.021	49.85	20.20	121.3	-71.45	QP	31.30	100	X	Pass
3	0.057	48.65	20.49	112.4	-63.75	Peak	213.40	100	X	Pass
3*	0.057	46.65	20.49	112.4	-65.75	QP	213.40	100	X	Pass
4	0.114	44.48	20.41	106.4	-61.92	Peak	203.00	100	X	Pass
4*	0.114	43.10	20.41	106.4	-63.30	QP	203.00	100	X	Pass
5	0.807	38.01	20.32	69.4	-31.39	Peak	54.50	100	X	Pass
5*	0.807	37.31	20.32	69.4	-32.09	QP	54.50	100	X	Pass
6	13.557	70.27	20.86	69.5	0.77	Peak	0.00	100	X	N/A
6*	13.557	69.90	20.86	69.5	0.40	QP	0.00	100	X	N/A

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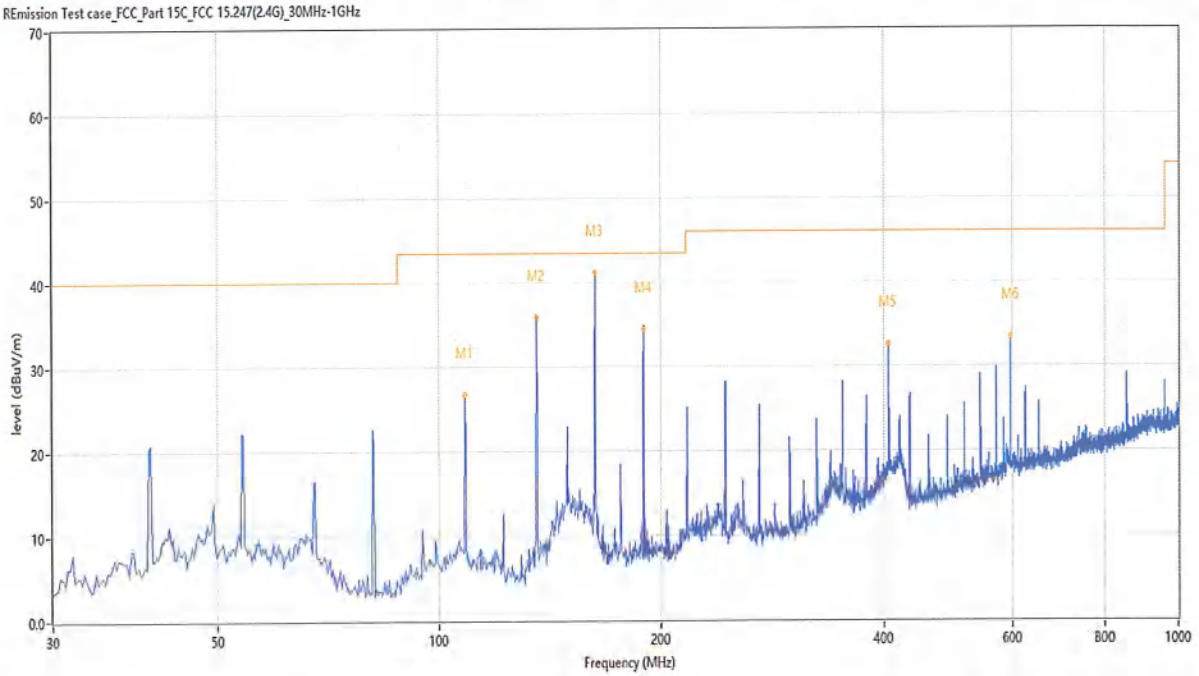
Frequency Range:	30M-1GHz	Polarization:	Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	108.479	34.75	-26.78	43.5	-8.75	Peak	273.10	170	Horizontal	Pass
1*	108.479	26.73	-26.78	43.5	-16.77	QP	273.10	170	Horizontal	Pass
2	135.598	39.13	-29.89	43.5	-4.37	Peak	275.00	213	Horizontal	Pass
2*	135.598	35.91	-29.89	43.5	-7.59	QP	275.00	213	Horizontal	Pass
3	162.718	43.28	-29.30	43.5	-0.22	Peak	279.50	159	Horizontal	Pass
3*	162.718	41.08	-29.30	43.5	-2.42	QP	279.50	159	Horizontal	Pass
4	189.837	39.46	-27.01	43.5	-4.04	Peak	273.80	110	Horizontal	Pass
4*	189.837	34.49	-27.01	43.5	-9.01	QP	273.80	110	Horizontal	Pass
5	406.795	40.07	-20.63	46.0	-5.93	Peak	142.80	104	Horizontal	Pass
5*	406.795	32.53	-20.63	46.0	-13.47	QP	142.80	104	Horizontal	Pass
6	596.634	46.15	-15.58	46.0	0.15	Peak	227.00	138	Horizontal	N/A
6*	596.634	33.49	-15.58	46.0	-12.51	QP	227.00	138	Horizontal	Pass

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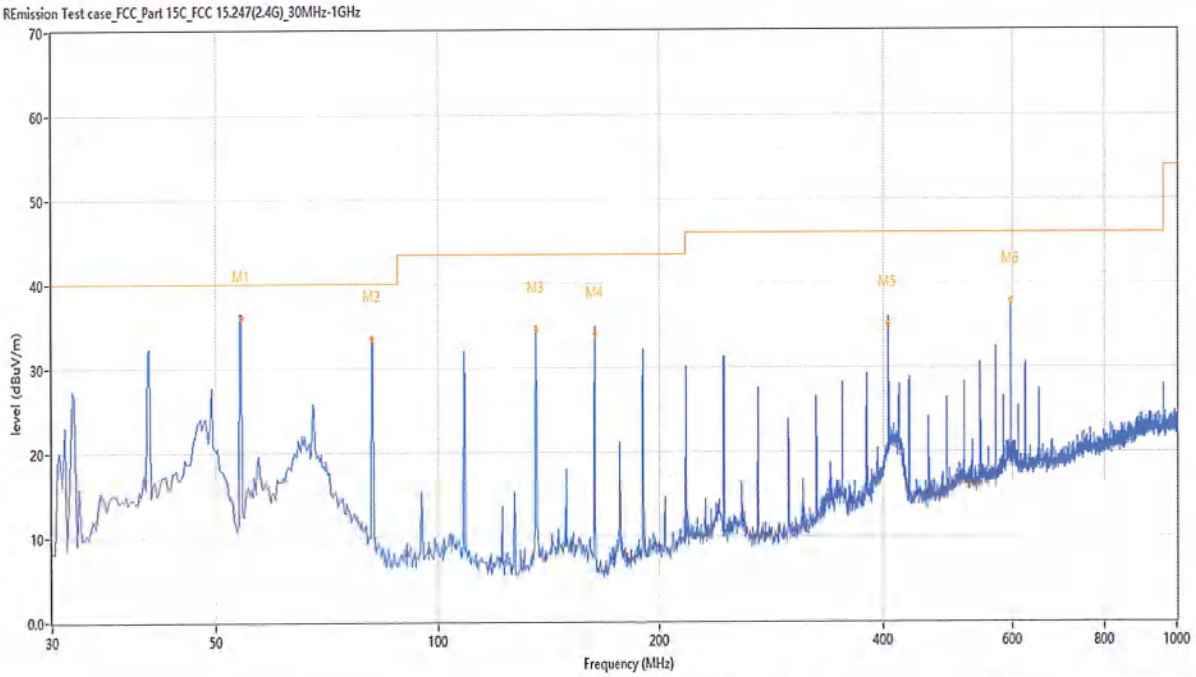
Frequency Range:	30M-1GHz	Polarization:	X



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.239	39.82	-25.28	40.0	-0.18	Peak	8.60	102	Vertical	Pass
1*	54.239	35.95	-25.28	40.0	-4.05	QP	8.60	102	Vertical	Pass
2	81.359	37.01	-31.42	40.0	-2.99	Peak	360.00	130	Vertical	Pass
2*	81.359	33.61	-31.42	40.0	-6.39	QP	360.00	130	Vertical	Pass
3	135.598	38.32	-29.89	43.5	-5.18	Peak	337.50	134	Vertical	Pass
3*	135.598	34.58	-29.89	43.5	-8.92	QP	337.50	134	Vertical	Pass
4	162.718	37.54	-29.30	43.5	-5.96	Peak	277.30	103	Vertical	Pass
4*	162.718	34.00	-29.30	43.5	-9.50	QP	277.30	103	Vertical	Pass
5	406.795	42.33	-20.63	46.0	-3.67	Peak	180.90	102	Vertical	Pass
5*	406.795	35.09	-20.63	46.0	-10.91	QP	180.90	102	Vertical	Pass
6	596.634	45.93	-15.58	46.0	-0.07	Peak	133.90	105	Vertical	Pass
6*	596.634	37.79	-15.58	46.0	-8.21	QP	133.90	105	Vertical	Pass

5.1.6 Conducted Emissions

RESULT: Pass

Test Specification

Test standard	:	FCC part 15.207 RSS-Gen
Basic standard	:	ANSI C63.4: 2014
Limit	:	FCC part 15.207 RSS-Gen 8.8
Kind of test site	:	Shielded Enclosure

Test Setup

Date of testing	:	2022-07-27
Input voltage	:	AC120V
Operation mode	:	A
Ambient temperature	:	20°C
Relative humidity	:	50%
Atmospheric pressure	:	102kPa

Refer to following test plots for details of test result

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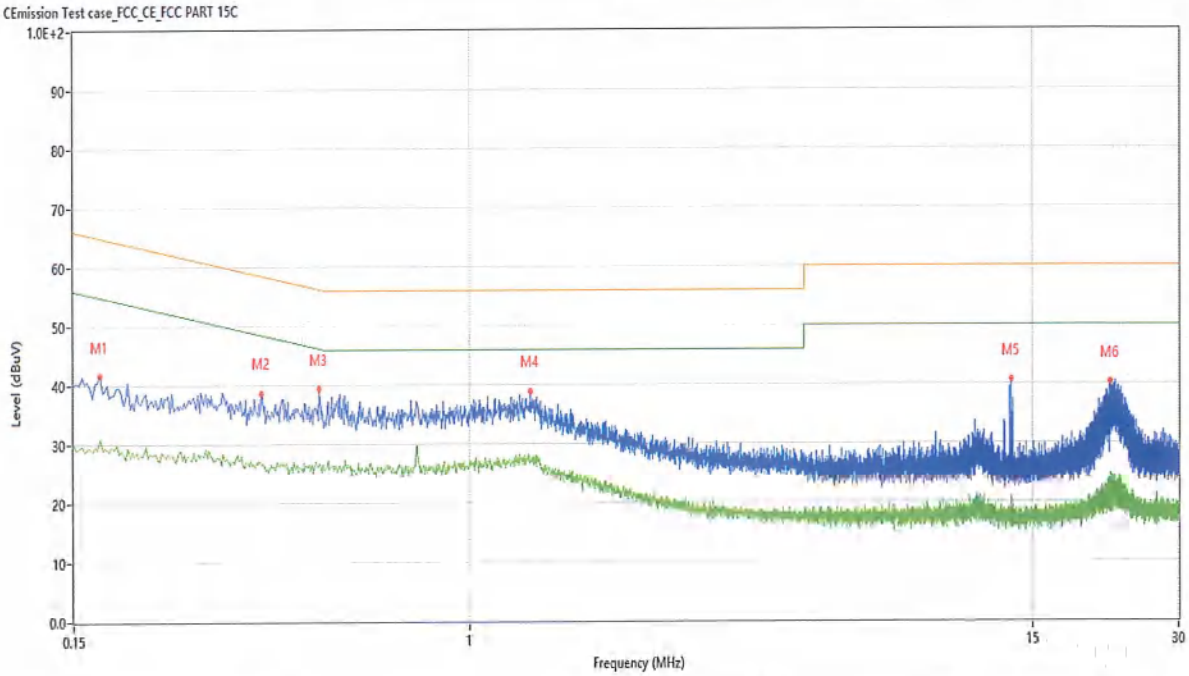
Frequency Range:	150k-30MHz	Phase:	Line



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.170	42.42	10.25	64.96	-22.54	Peak	L	Pass
1*	0.170	36.25	10.25	64.96	-28.71	QP	L	Pass
1**	0.170	30.79	10.25	54.96	-24.17	AV	L	Pass
2	0.368	35.98	10.23	58.55	-22.57	Peak	L	Pass
2*	0.368	28.22	10.23	58.55	-30.33	QP	L	Pass
2**	0.368	26.44	10.23	48.55	-22.11	AV	L	Pass
3	0.486	37.77	10.28	56.24	-18.47	Peak	L	Pass
3*	0.486	31.30	10.28	56.24	-24.94	QP	L	Pass
3**	0.486	26.76	10.28	46.24	-19.48	AV	L	Pass
4	1.340	30.27	10.19	56.00	-25.73	Peak	L	Pass
4*	1.340	23.15	10.19	56.00	-32.85	QP	L	Pass
4**	1.340	26.69	10.19	46.00	-19.31	AV	L	Pass
5	13.540	41.11	10.43	60.00	-18.89	Peak	L	Pass
5*	13.540	26.81	10.43	60.00	-33.19	QP	L	Pass
5**	13.540	18.93	10.43	50.00	-31.07	AV	L	Pass
6	21.768	40.23	10.99	60.00	-19.77	Peak	L	Pass
6*	21.768	33.54	10.99	60.00	-26.46	QP	L	Pass
6**	21.768	22.30	10.99	50.00	-27.70	AV	L	Pass

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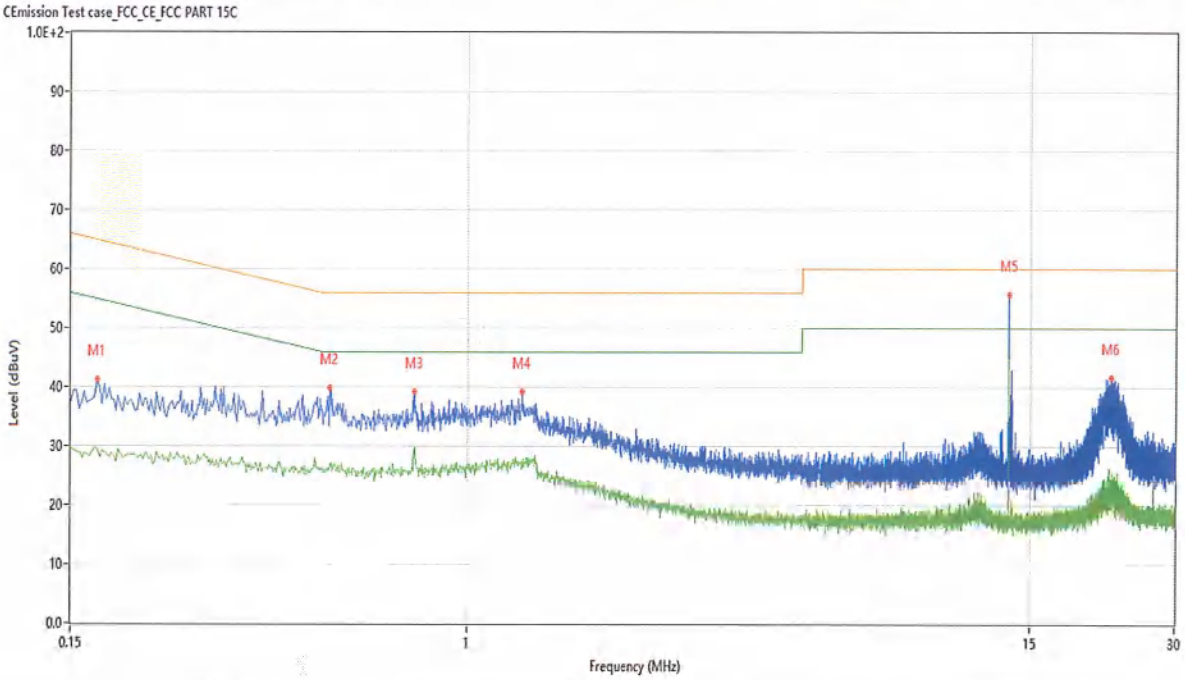
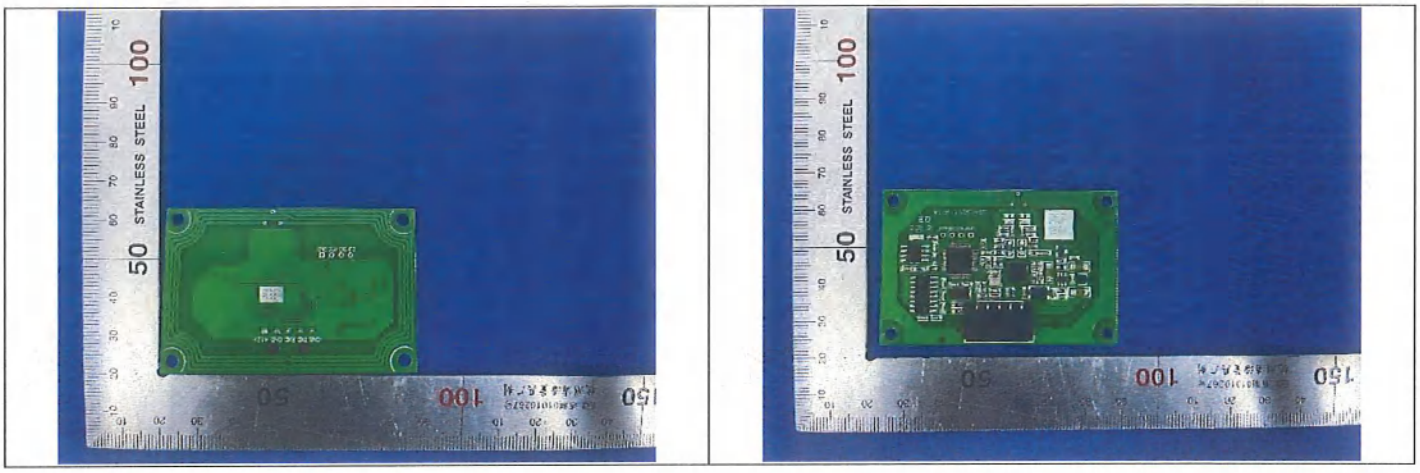
Frequency Range:	150k-30MHz	Phase:	Neutral



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.170	40.30	10.25	64.96	-24.66	Peak	N	Pass
1*	0.170	32.74	10.25	64.96	-32.22	QP	N	Pass
1**	0.170	29.29	10.25	54.96	-25.67	AV	N	Pass
2	0.518	39.09	10.29	56.00	-16.91	Peak	N	Pass
2*	0.518	32.24	10.29	56.00	-23.76	QP	N	Pass
2**	0.518	26.97	10.29	46.00	-19.03	AV	N	Pass
3	0.778	31.94	10.31	56.00	-24.06	Peak	N	Pass
3*	0.778	26.14	10.31	56.00	-29.86	QP	N	Pass
3**	0.778	29.77	10.31	46.00	-16.23	AV	N	Pass
4	1.304	29.99	10.19	56.00	-26.01	Peak	N	Pass
4*	1.304	23.20	10.19	56.00	-32.80	QP	N	Pass
4**	1.304	26.82	10.19	46.00	-19.18	AV	N	Pass
5	13.552	52.81	10.43	60.00	-7.19	Peak	N	Pass
5*	13.552	44.72	10.43	60.00	-15.28	QP	N	Pass
5**	13.552	43.59	10.43	50.00	-6.41	AV	N	Pass
6	22.172	42.19	10.99	60.00	-17.81	Peak	N	Pass
6*	22.172	35.20	10.99	60.00	-24.80	QP	N	Pass
6**	22.172	24.46	10.99	50.00	-25.54	AV	N	Pass

6 Photographs of the EUT and Test Set-Up

6.1 Photographs of the EUT

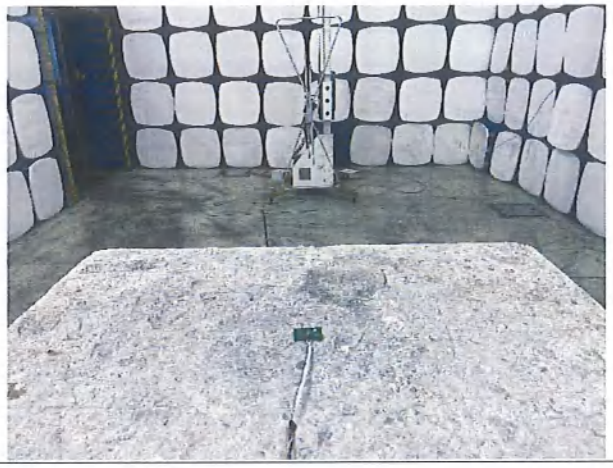


6.2 Photographs of the Test Set-up

Conducted Emission Test Set-up

Radiated Emission Test Set-up for Below 30MHz

Radiated Emission Test Set-up for 30M-1GHz



End of the report

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