TEST REPORT

Product Name	:	MoerLink
Brand Mark	:	N/A
Model No.	:	AAD02
Report Number	:	BLA-EMC-202208-A9802
FCC ID	:	2A8MI-AAD02
Date of Sample Receipt	:	2022/8/30
Date of Test	:	2022/8/30 to 2022/9/20
Date of Issue	:	2022/9/20
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Prepared for:

Nanjing Yixin Electronic Technology Co., LTD
Room 2292, Fuying Building, No.99,Tuanjie Road, Nanjing, Jiangsu pilot free trade zone.

Prepared by:

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Compiled by: Review by:

Approved by: Date: 2022/9/20

REPORT REVISE RECORD

Version No.	Date	Description
00	2022/9/20	Original

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TABLE OF CONTENTS

1 TEST SUMMARY 5
2 GENERAL INFORMATION 6
3 GENERAL DESCRIPTION OF E.U.T. 6
4 TEST ENVIRONMENT 7
5 TEST MODE 7
6 MEASUREMENT UNCERTAINTY 7
7 DESCRIPTION OF SUPPORT UNIT 8
8 LABORATORY LOCATION 8
9 TEST INSTRUMENTS LIST 9
10 20DB BANDWIDTH 13
10.1 BLOCK DIAGRAM OF TEST SETUP 13
10.2 TEST DATA 13
11 CONDUCTED PEAK OUTPUT POWER 14
11.1 LIMITS 14
11.2 BLOCK DIAGRAM OF TEST SETUP 14
11.3 TEST DATA 15
12 CONDUCTED BAND EDGES MEASUREMENT 16
12.1 LIMITS 16
12.2 BLOCK DIAGRAM OF TEST SETUP 16
12.3 TEST DATA 17
13 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ) 18
13.1 LIMITS 18
13.2 BLOCK DIAGRAM OF TEST SETUP 18
13.3 PROCEDURE 18
13.4 TEST DATA 20
14 RADIATED SPURIOUS EMISSIONS 22
14.1 LIMITS 22
14.2 BLOCK DIAGRAM OF TEST SETUP 23
14.3 PROCEDURE 23
14.4 TEST DATA 25

BlueAsia

15 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS 33

15.1 LIMITS 33
15.2 BLOCK DIAGRAM OF TEST SETUP 34
15.3 PROCEDURE 34
15.4 TEST DATA 36

16 ANTENNA REQUIREMENT 40

16.1 CONCLUSION 40

17 CONDUCTED SPURIOUS EMISSIONS 41

17.1 LIMITS 41
17.2 BLOCK DIAGRAM OF TEST SETUP 41
17.3 TEST DATA 42

18 DWELL TIME 43

18.1 LIMITS 43
18.2 BLOCK DIAGRAM OF TEST SETUP 43
18.3 TEST DATA 44

19 HOPPING CHANNEL NUMBER 45

19.1 LIMITS 45
19.2 BLOCK DIAGRAM OF TEST SETUP 45
19.3 TEST DATA 45

20 CARRIER FREQUENCIES SEPARATION 46

20.1 LIMITS 46
20.2 BLOCK DIAGRAM OF TEST SETUP 46
20.3 TEST DATA 46

21 APPENDIX 47

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 96

APPENDIX B: PHOTOGRAPHS OF EUT 98

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Dwell Time	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(iii)	Pass
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass

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2 GENERAL INFORMATION

Applicant	Nanjing Yixin Electronic Technology Co., LTD
Address	Room 2292, Fuying Building, No.99,Tuanjie Road, Nanjing, Jiangsu pilot free trade zone.
Manufacturer	Nanjing Yixin Electronic Technology Co., LTD
Address	Room 2292, Fuying Building, No.99,Tuanjie Road, Nanjing, Jiangsu pilot free trade zone.
Factory	Rayson Technology (SZ)Co., Ltd.
Address	No.1,Tongfu 1st Road,The 2nd industrial Zone,Loucun,Guangming New District,Shenzhen,China
Product Name	MoerLink
Test Model No.	AAD02

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A

Engineer sample no:	AAD02
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Chip Antenna
Antenna Gain:	1.01dBi (Provided by the applicant)

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4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	5Vdc

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation. (hopping and non hopping mode all have been tested, non hopping mode is worse case for RE)
Remark: DH1,DH3, DH5 all have been tested, during the test, GFSK, Pi/4QPSK, 8-DPSK modulation were all pre-scanned only GFSK worse case is reported.	

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

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7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	N/A	N/A	N/A

8 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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9 TEST INSTRUMENTS LIST

Test Equipment Of 20dB Bandwidth					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Peak Output Power					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Band Edges Measurement					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**

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Shield room	SKET	833	N/A	25/11/2020	24/11/2023
Receiver	R&S	ESPI3	101082	24/9/2021	23/9/2022
LISN	R&S	ENV216	3560.6550.15	24/9/2021	23/9/2022
LISN	AT	AT166-2	AKK1806000003	26/9/2021	25/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A

Test Equipment Of Radiated Spurious Emissions

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	26/9/2020	25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	10/11/2020	9/11/2023
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Receiver	R&S	ESR7	101199	24/9/2021	23/9/2022

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broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	26/9/2020	25/9/2022
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	26/9/2020	25/9/2022
Amplifier	SKET	LNPA-0118-45	N/A	24/9/2021	23/9/2022
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	26/9/2020	25/9/2022

Test Equipment Of Conducted Spurious Emissions

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Dwell Time

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Hopping Channel Number

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022

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Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

Test Equipment Of Carrier Frequencies Separation					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal.Date**	**Cal.Due**
Spectrum	R&S	FSP40	100817	24/9/2021	23/9/2022
Spectrum	Agilent	N9020A	MY49100060	24/9/2021	23/9/2022
Signal Generator	Agilent	N5182A	MY49060650	24/9/2021	23/9/2022
Signal Generator	Agilent	E8257D	MY44320250	24/9/2021	23/9/2022

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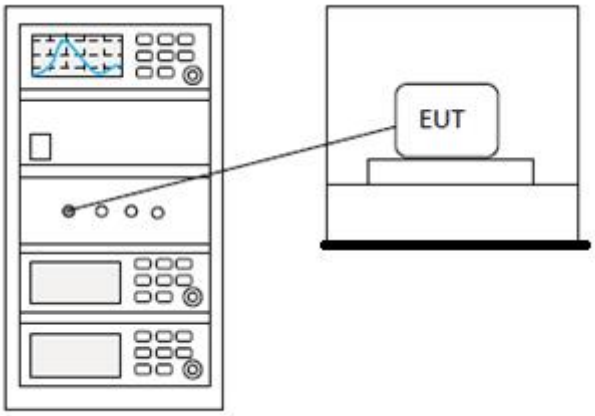
10 20DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.7
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

10.1 BLOCK DIAGRAM OF TEST SETUP



10.2 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

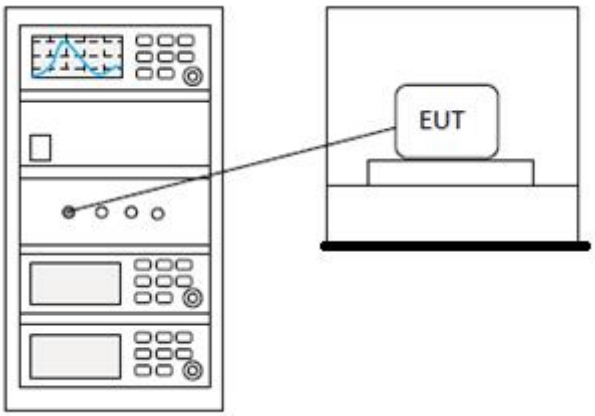
11 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

11.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

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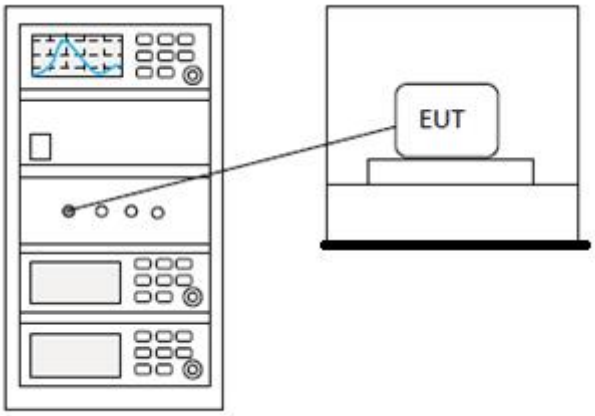
12 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

12.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

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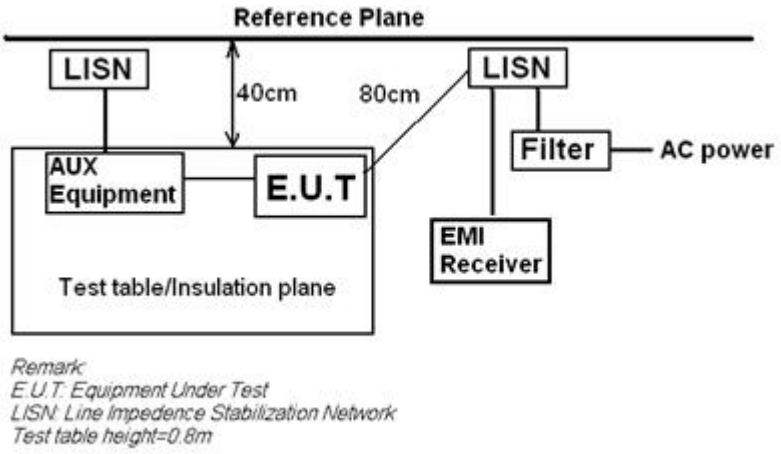
13 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	BT mode
Test Mode (Final Test)	BT mode
Tester	Jozu
Temperature	25℃
Humidity	60%

13.1 LIMITS

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.		

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Remark: LISN=Read Level+ Cable Loss+ LISN Factor

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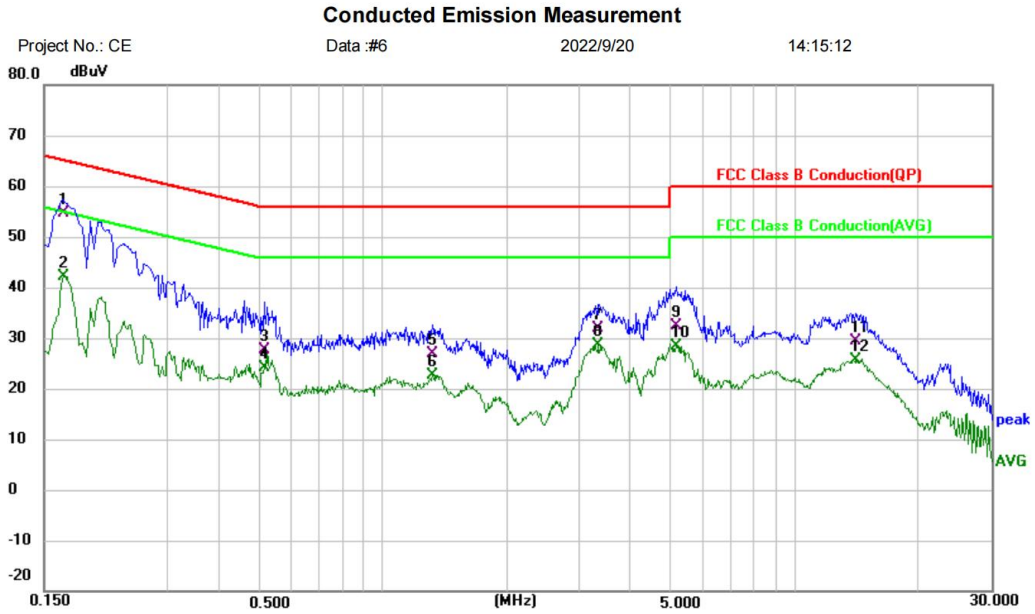
13.4 TEST DATA

[TestMode: BT]; [Line: Neutral];[Power:AC120V/60Hz]



Site
Limit: FCC Class B Conduction(QP)
EUT: MoerLink
M/N: AAD02
Mode: BT mode
Note:

Phase: N
Power:

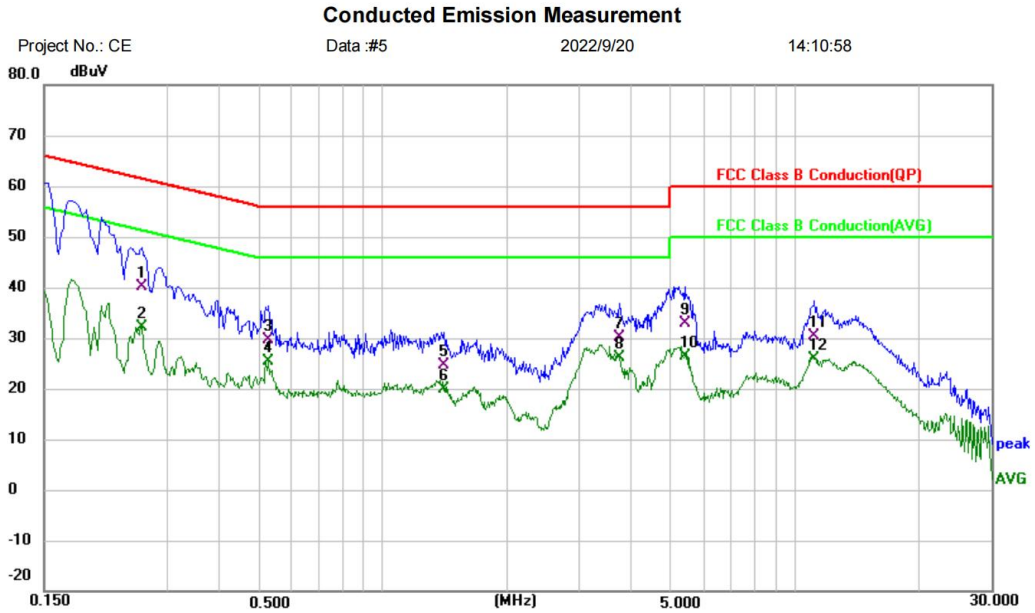
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	44.47	10.08	54.55	65.16	-10.61	QP	
2		0.1660	31.97	10.08	42.05	55.16	-13.11	AVG	
3		0.5140	17.74	9.79	27.53	56.00	-28.47	QP	
4		0.5140	14.36	9.79	24.15	46.00	-21.85	AVG	
5		1.3180	17.03	9.85	26.88	56.00	-29.12	QP	
6		1.3180	12.89	9.85	22.74	46.00	-23.26	AVG	
7		3.3420	21.86	9.90	31.76	56.00	-24.24	QP	
8		3.3420	18.80	9.90	28.70	46.00	-17.30	AVG	
9		5.1540	22.36	9.95	32.31	60.00	-27.69	QP	
10		5.1540	18.47	9.95	28.42	50.00	-21.58	AVG	
11		14.0340	19.22	10.27	29.49	60.00	-30.51	QP	
12		14.0340	15.31	10.27	25.58	50.00	-24.42	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Test Result: Pass

[TestMode: BT]; [Line: Line] [Power:AC120V/60Hz]



Site | Phase: *L1* | Temperature: (C)
Limit: FCC Class B Conduction(QP) | Power: | Humidity: %RH
EUT: MoerLink
M/N: AAD02
Mode: BT mode
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2580	29.65	10.36	40.01	61.50	-21.49	QP	
2	*	0.2580	21.87	10.36	32.23	51.50	-19.27	AVG	
3		0.5260	19.81	9.87	29.68	56.00	-26.32	QP	
4		0.5260	15.63	9.87	25.50	46.00	-20.50	AVG	
5		1.4060	14.71	9.93	24.64	56.00	-31.36	QP	
6		1.4060	9.84	9.93	19.77	46.00	-26.23	AVG	
7		3.7420	20.26	9.98	30.24	56.00	-25.76	QP	
8		3.7420	16.21	9.98	26.19	46.00	-19.81	AVG	
9		5.4060	22.97	10.03	33.00	60.00	-27.00	QP	
10		5.4060	16.27	10.03	26.30	50.00	-23.70	AVG	
11		11.1940	20.20	10.24	30.44	60.00	-29.56	QP	
12		11.1940	15.56	10.24	25.80	50.00	-24.20	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Test Result: Pass

14 RADIATED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

14.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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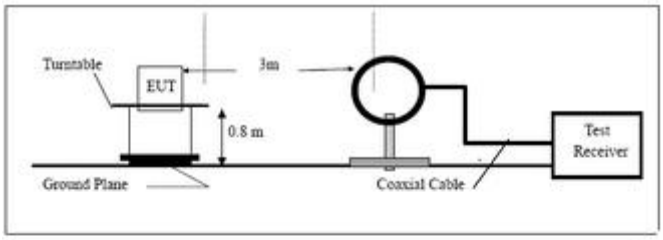
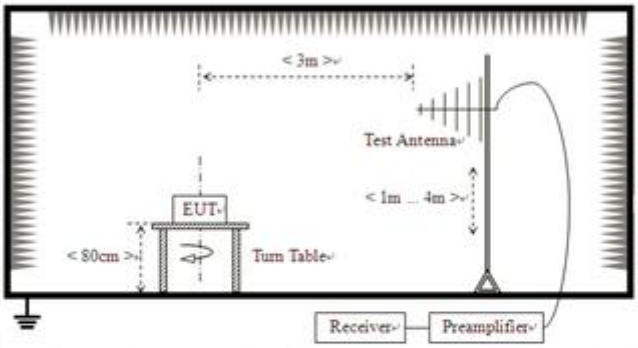
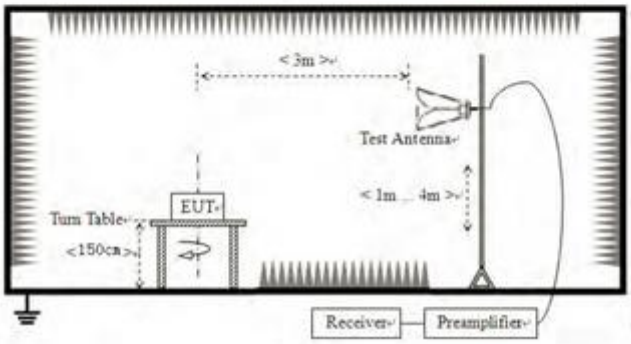
14.2 BLOCK DIAGRAM OF TEST SETUP







14.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

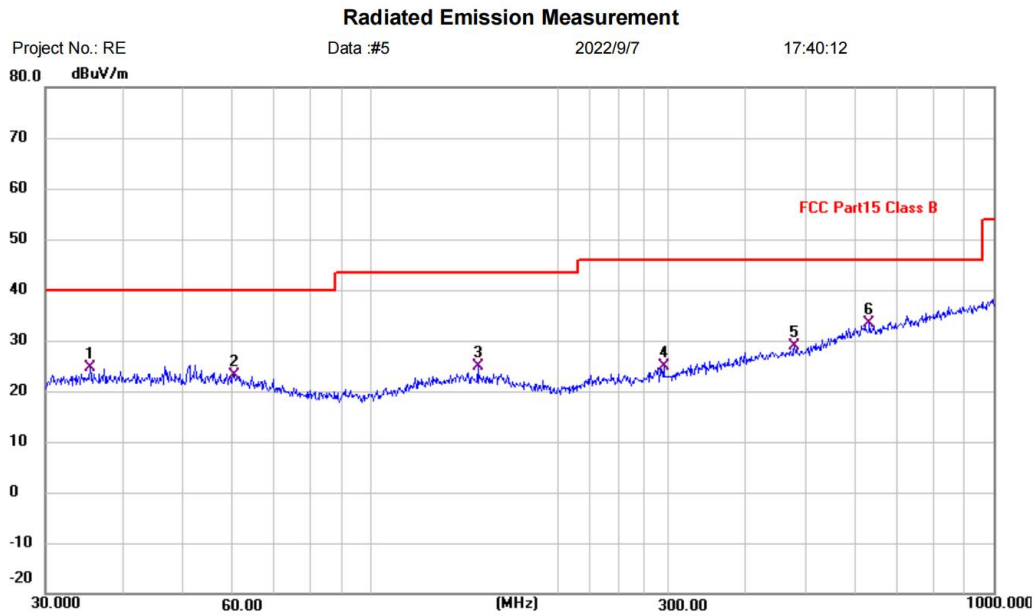
h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.

Remark:
1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

14.4 TEST DATA

[TestMode: TX below 1G]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: MoerLink
M/N: AAD02
Mode: TX mode
Note:

Polarization: ***Horizontal***
Power:

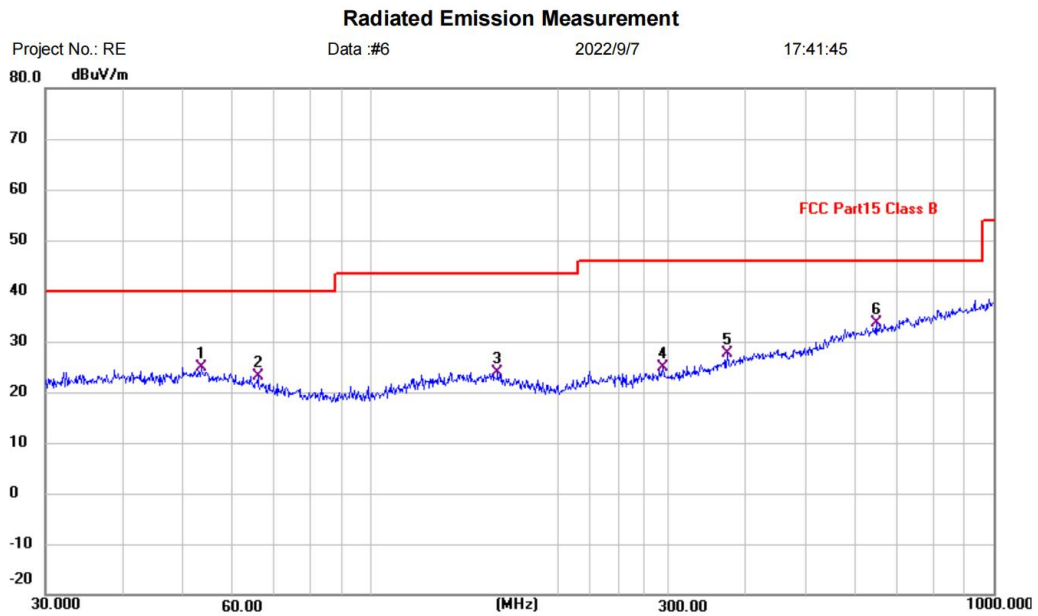
Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	35.3750	1.72	22.87	24.59	40.00	-15.41	QP	P	
2	60.2801	0.21	22.83	23.04	40.00	-16.96	QP	P	
3	148.4410	1.91	22.97	24.88	43.50	-18.62	QP	P	
4	295.1468	1.50	23.33	24.83	46.00	-21.17	QP	P	
5	478.8455	1.29	27.65	28.94	46.00	-17.06	QP	P	
6 *	631.6883	2.40	30.98	33.38	46.00	-12.62	QP	P	

*:Maximum data x:Over limit !:over margin

Test Result: Pass

[TestMode: TX below 1G]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: MoerLink
M/N: AAD02
Mode: TX mode
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	53.3179	1.92	23.04	24.96	40.00	-15.04	QP	P	
2	65.8031	1.55	21.65	23.20	40.00	-16.80	QP	P	
3	159.7844	1.09	22.91	24.00	43.50	-19.50	QP	P	
4	294.1137	1.52	23.32	24.84	46.00	-21.16	QP	P	
5	373.3112	1.85	25.79	27.64	46.00	-18.36	QP	P	
6 *	647.3856	2.56	31.08	33.64	46.00	-12.36	QP	P	

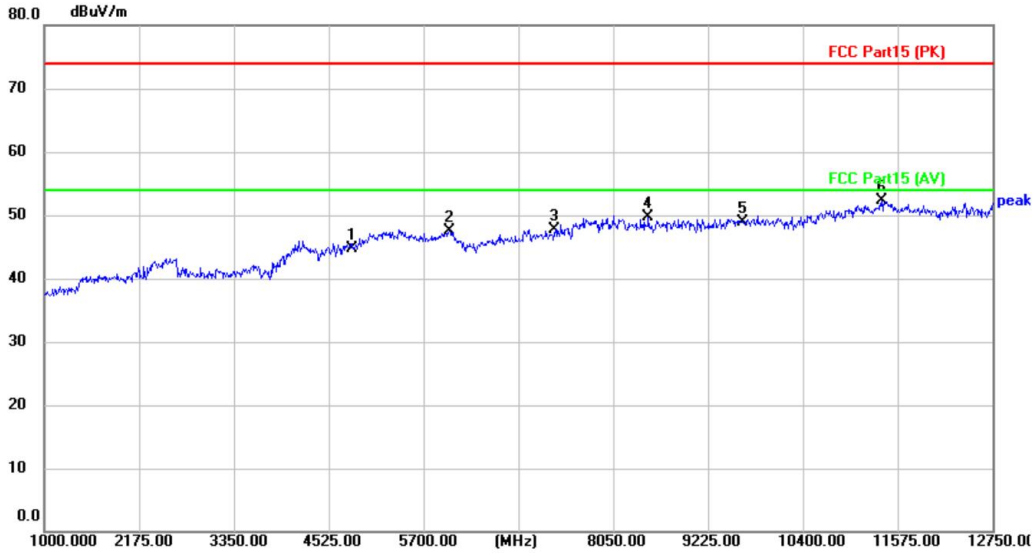
*:Maximum data x:Over limit !:over margin

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: RE Data :#19 2022/9/8 15:07:51



Site
Limit: FCC Part15 (PK)
EUT: MoerLink
M/N: AAD02
Mode: TX-L
Note:

Polarization: ***Horizontal***
Power:

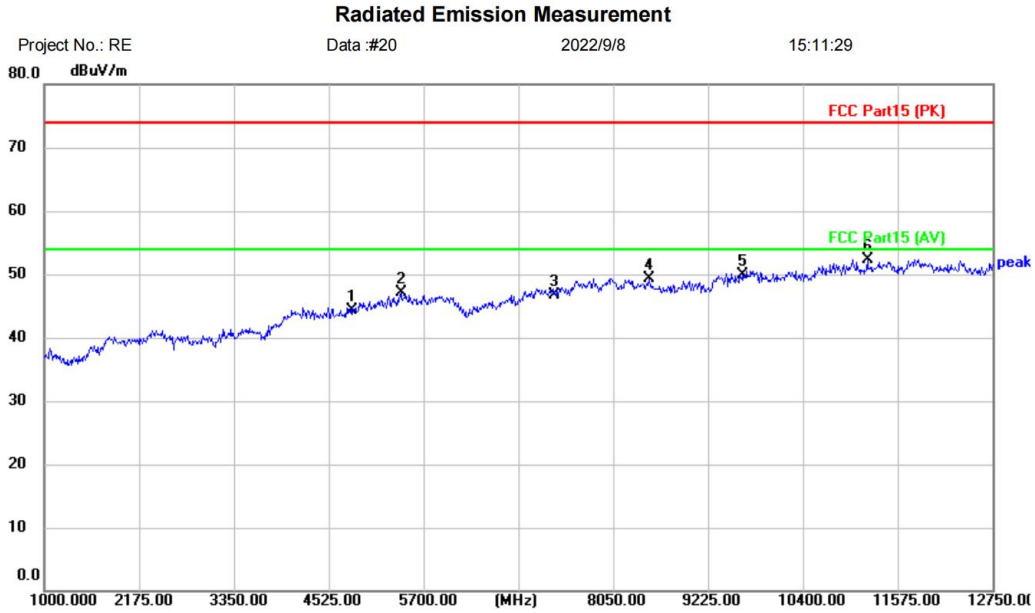
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	50.66	-5.87	44.79	74.00	-29.21	peak	
2		6017.250	53.53	-6.03	47.50	74.00	-26.50	peak	
3		7326.000	49.42	-1.79	47.63	74.00	-26.37	peak	
4		8484.750	50.61	-0.88	49.73	74.00	-24.27	peak	
5		9648.000	47.80	1.01	48.81	74.00	-25.19	peak	
6	*	11375.250	48.67	3.62	52.29	74.00	-21.71	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: MoerLink
M/N: AAD02
Mode: TX-L
Note:

Polarization: ***Vertical***
Power:

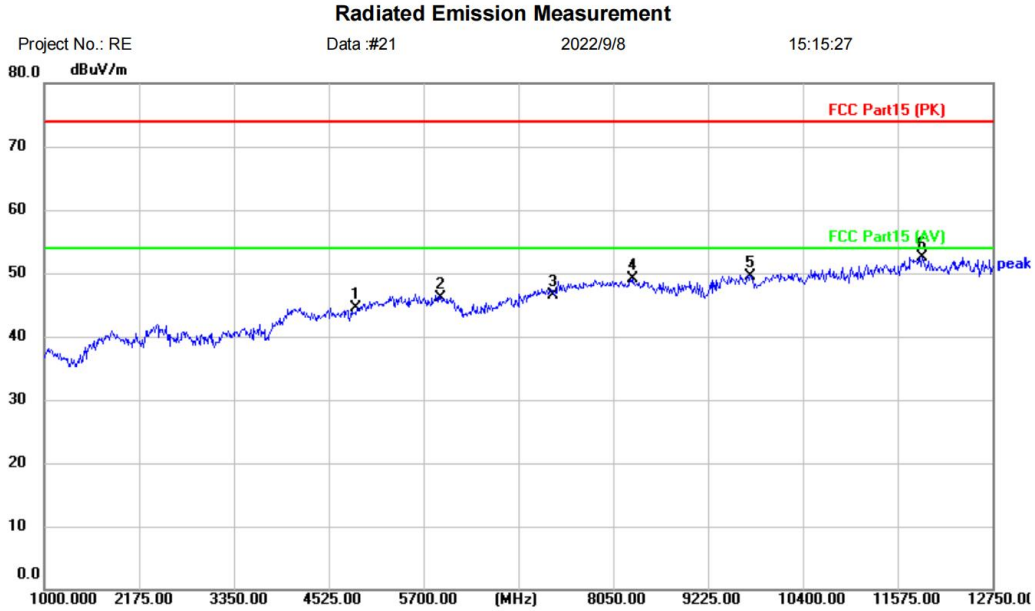
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	40.19	4.13	44.32	74.00	-29.68	peak	
2		5418.000	40.41	6.75	47.16	74.00	-26.84	peak	
3		7326.000	38.56	8.21	46.77	74.00	-27.23	peak	
4		8496.500	40.09	9.12	49.21	74.00	-24.79	peak	
5		9648.000	38.91	11.01	49.92	74.00	-24.08	peak	
6	*	11199.000	38.75	13.54	52.29	74.00	-21.71	peak	

*:Maximum data x:Over limit !:over margin (Reference Only

Test Result: Pass

[TestMode: TX mid channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: MoerLink
M/N: AAD02
Mode: TX-M
Note:

Polarization: ***Vertical***
Power:

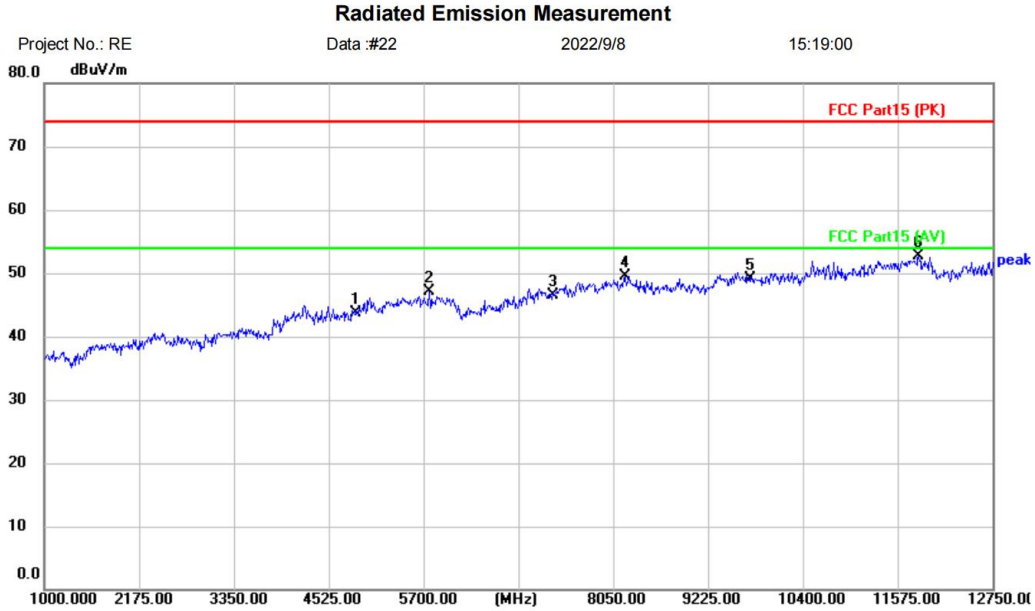
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	40.13	4.32	44.45	74.00	-29.55	peak	
2		5911.500	39.34	6.85	46.19	74.00	-27.81	peak	
3		7311.000	38.32	8.18	46.50	74.00	-27.50	peak	
4		8285.000	40.15	9.03	49.18	74.00	-24.82	peak	
5		9748.000	38.34	11.26	49.60	74.00	-24.40	peak	
6	*	11880.500	38.73	13.85	52.58	74.00	-21.42	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Test Result: Pass

[TestMode: TX mid channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: MoerLink
M/N: AAD02
Mode: TX-M
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.29	4.32	43.61	74.00	-30.39	peak	
2		5770.500	40.26	6.78	47.04	74.00	-26.96	peak	
3		7311.000	38.39	8.18	46.57	74.00	-27.43	peak	
4		8191.000	40.50	8.99	49.49	74.00	-24.51	peak	
5		9748.000	37.81	11.26	49.07	74.00	-24.93	peak	
6	*	11833.500	38.89	13.82	52.71	74.00	-21.29	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Test Result: Pass