

Test Report

Applicant : Jiangsu Fulian Communication Technology Co.,Ltd
Address : Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.
Product Name : FLC8720FRA-B
Brand Mark : Fulian
Model : FLC8720FRA-B
FCC ID : 2AXS5-FLC8720FRA-B
Report Number : BLA-B-EMC-202607-A115-02
Date of Receipt : July 30, 2026
Date of Test : July. 7, 2026 to Sep. 18, 2026
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Compiled by:

Hugh

Review by:

Xavier

Approved by:

Blue Zheng

Issued Date: Sep. 18, 2026

BlueAsia Technical Services (Shenzhen) Co., Ltd

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyuan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.

Table of Contents

1 General information	5
1.1 General information	5
1.2 General description of EUT	5
2 Test summary	7
3 Test Configuration	8
3.1 Test mode	8
3.2 Operation Frequency each of channel	9
3.3 Test channel	9
3.4 Configuration diagram of EUT	9
3.5 Auxiliary equipment	9
3.6 Test environment	9
4 Laboratory information	10
4.1 Laboratory and accreditations	10
4.2 Measurement uncertainty	10
5 Test equipment	11
6 Test result	12
6.1 Radiated spurious emissions	12
6.2 Radiated emissions which fall in the restricted bands	23
Appendix A: photographs of test setup	30
Appendix B: photographs of EUT	32

Revise Record

Version No.	Date	Description
01	Sep. 18, 2026	Original

Remark:

1. This report CLASS II Permissive Change based on the original report.
2. This report is based on the original report, with the addition of 5 antennas and the inclusion of antenna difference testing, RF module electrical and electronic components, PCB design should be consistent.

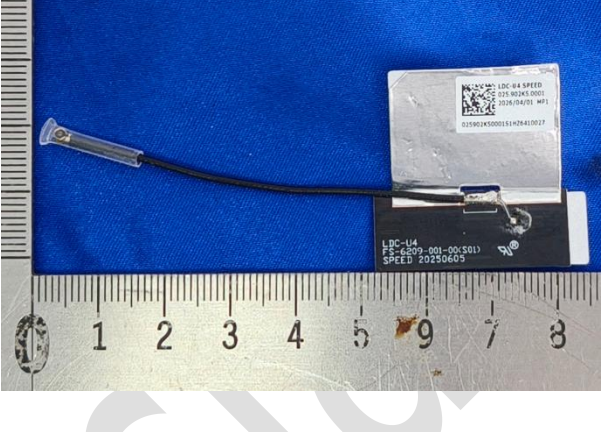
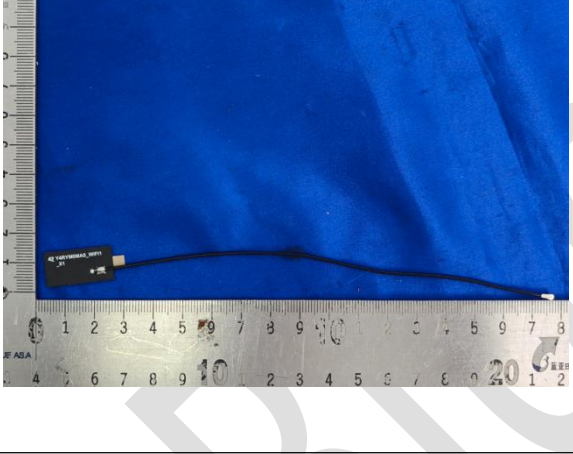
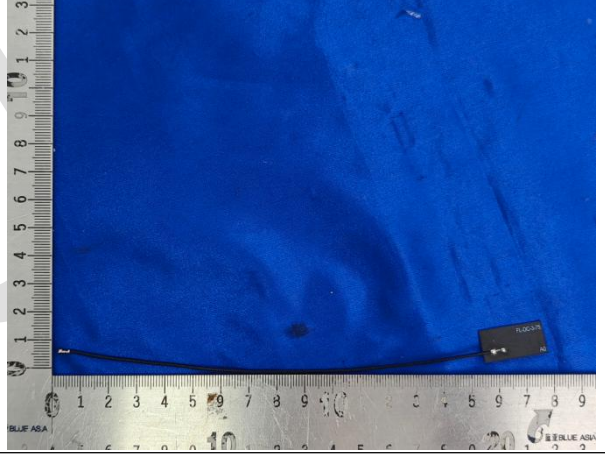
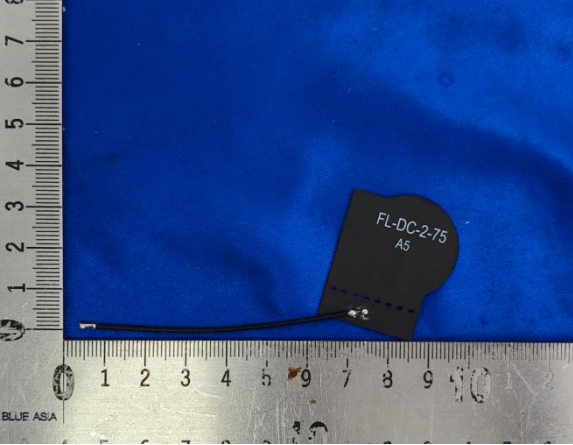
(After evaluation, Difference antenna test only tested Radiated spurious emissions and Radiated emissions which fall in the restricted bands. Difference antenna model: Ant1: AWAN; Ant2: SPEEDWIRE; Ant3: Y4RYM0MA0BA; Ant4: FL-DC-3-75; Ant5: FL-DC-2-75.)

Since all five types of antennas are FPC antennas, and Antenna 2 has the highest gain, this report only evaluates the spurious test of Antenna 2. The gain value is provided in Section 1.2

3. The original report No.: BLA-EMC-202503-A2702 (Product Name: FLC8720FRA-B, Model No.: FLC8720FRA-B, Issued Date: Apr. 2, 2025 by BlueAsia Technical Services (Shenzhen) Co.,Ltd.).

4. For the test data, see the original report: BLA-EMC-202503-A2702. Issued Date: Apr. 2, 2025 by BlueAsia Technical Services (Shenzhen) Co.,Ltd.

Differences of Antenna

Ant1: AWAN	Ant2: SPEEDWIRE
	
Ant3: Y4RYM0MA0BA	Ant4: FL-DC-3-75
	
Ant5: FL-DC-2-75	
	

1 General information

1.1 General information

Applicant	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.
Manufacturer	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.
Factory	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.

1.2 General description of EUT

Product Name	FLC8720FRA-B
Model No.	FLC8720FRA-B
Series model	N/A
Operation Frequency:	2412MHz-2462MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type:	Original: External antenna Difference: FPC antenna
Antenna Gain:	Original: 2.63 dBi (External Flat Antenna) Difference: Ant1: 1.19 dBi (AWAN) Ant2: 1.98 dBi (SPEEDWIRE) Ant3: 1.60 dBi (Y4RYM0MA0BA) Ant4: 1.03 dBi (FL-DC-3-75) Ant5: 1.10 dBi (FL-DC-2-75) (Provided by customer)
Power supply or adapter information	DC3.3V
Hardware Version	N/A

Software Version	N/A
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

BlueAsia

2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	N/A
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Clause 6.2	N/A
3	Conducted Peak Output Power	§15.247 (b)(3)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, Clause 11.9.1.3	N/A
4	Minimum 6dB Bandwidth	§15.247 (a)(2)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, Clause 11.8.1	N/A
5	Power Spectrum Density	§15.247 (e)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, Clause 11.10.2	N/A
6	Conducted Band Edges Measurement	§15.247(d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, Clause 11.13.3.2	N/A
7	Conducted Spurious Emissions	§15.247(d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, Clause 11.11	N/A
8	Radiated Spurious Emissions	§15.247 (d) §15.209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Clause 6.4&6.5&6.6	Pass
9	Radiated Emissions which fall in the restricted bands	§15.247 (d) §15.205	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Clause 6.10.5	Pass

N/A: Not Applicable, This report CLASS II Permissive Change based on the original report.

3 Test Configuration

3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Serial port command is used.

3.2 Operation Frequency each of channel

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	--	--
2	2417MHz	6	2437MHz	10	2457MHz	--	--
3	2422MHz	7	2442MHz	11	2462MHz	--	--
4	2427MHz	8	2447MHz	--	--	--	--

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz	--	--	--	--
4	2427MHz	8	2447MHz	--	--	--	--
5	2432MHz	9	2452MHz	--	--	--	--
6	2437MHz	--	--	--	--	--	--

3.3 Test channel

For 802.11b/g/n (HT20), the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz); 802.11n HT40, the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 3 (2422MHz), 6 (2437MHz) and 9 (2452MHz).

3.4 Configuration diagram of EUT



3.5 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)

Note:
“--” mean no any auxiliary device during testing.

3.6 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 3.3V

4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia Technical Services (Shenzhen) Co., Ltd
Address:	Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2026/07/31	2027/07/31
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2026/05/31	2027/05/30
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2026/05/31	2027/05/30
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2026/01/10	2028/01/09
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2026/07/31	2027/07/31
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2026/05/31	2027/05/30
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2026/07/31	2027/07/31
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2026/05/25	2027/05/24
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2026/05/25	2027/05/24
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2026/05/25	2027/05/24
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2026/05/25	2027/05/24
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2026/05/31	2027/05/30
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Test software

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE(Below 1GHz)
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE(Above 1GHz)

6 Test result

6.1 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247(d)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Clause 6.4&6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

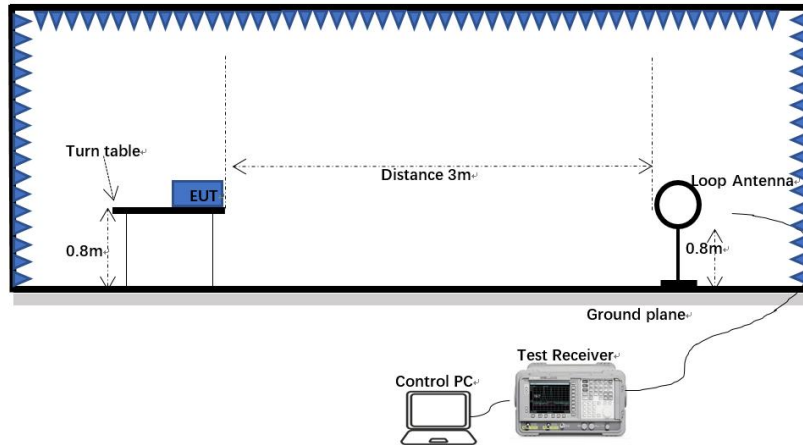
6.1.1 Limit

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

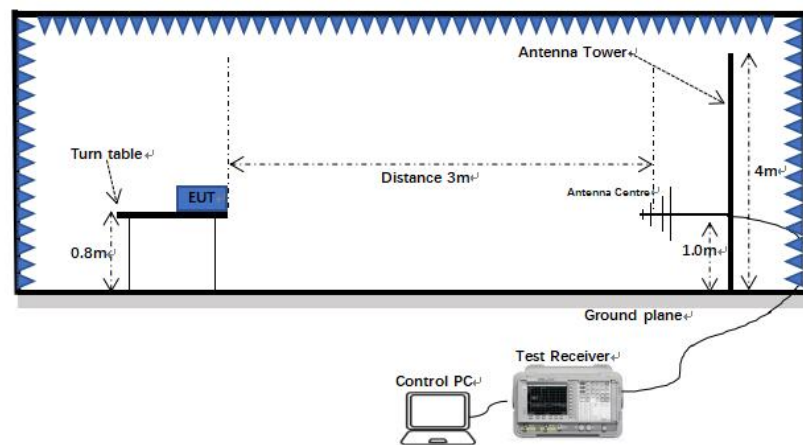
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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

6.1.2 Test setup

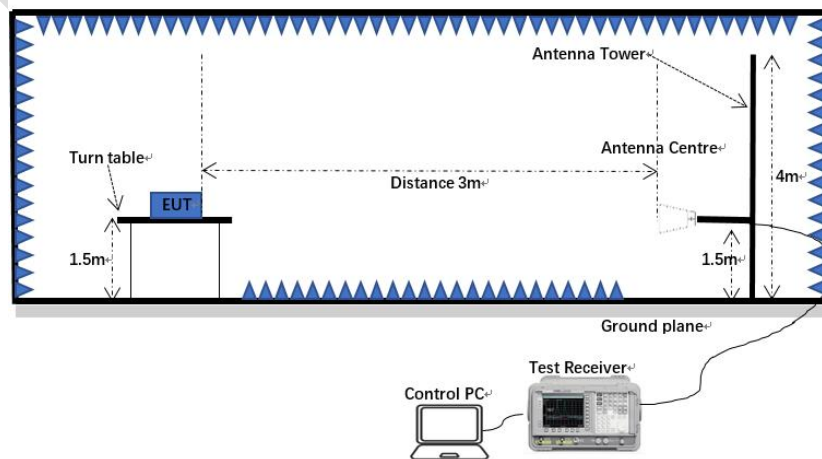
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.1.3 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.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 18GHz 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.

Note 2: 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.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

During the test, pre-scan the Ant1: AWAN; Ant2: SPEEDWIRE; Ant3: Y4RYM0MA0BA; Ant4: FL-DC-3-75; Ant5: FL-DC-2-75, and found the Ant2: SPEEDWIRE which it is worse case.

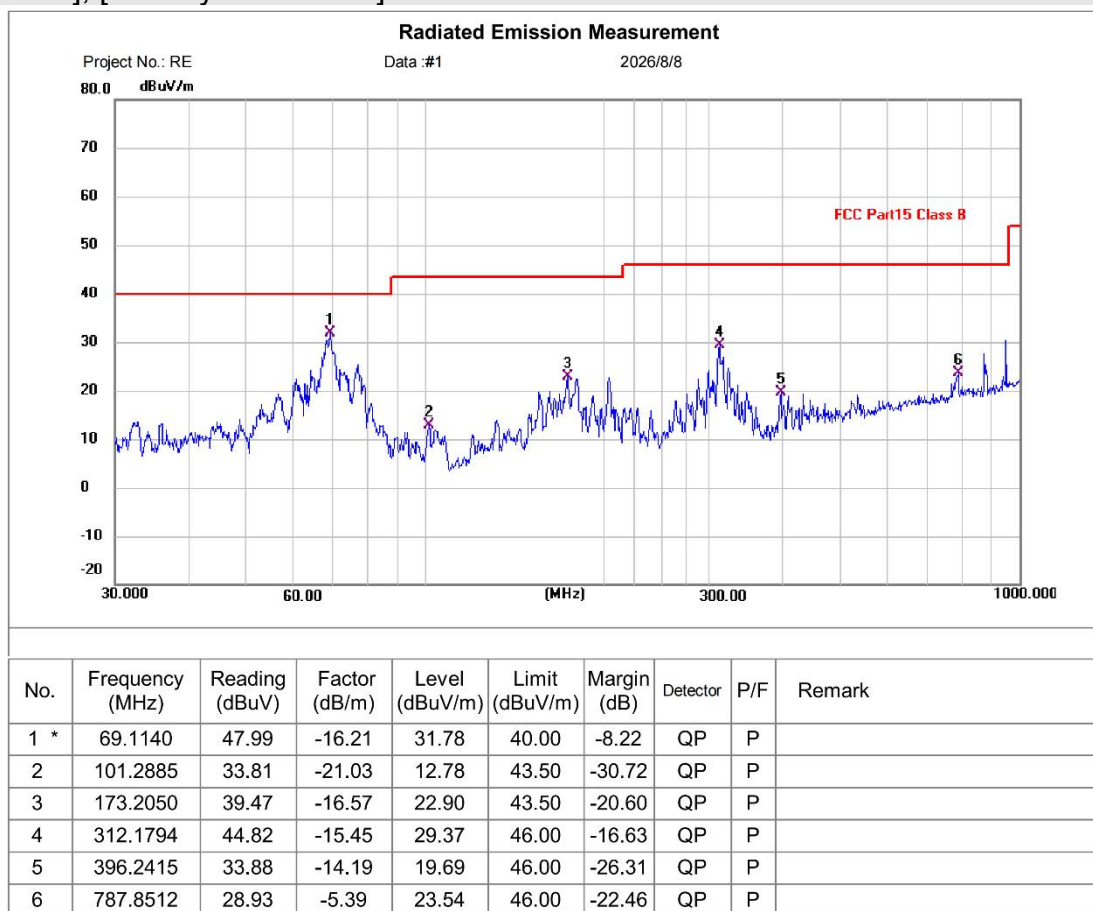
6.1.4 Test data

6.1.4.1 Difference ANT

Ant2: SPEEDWIRE

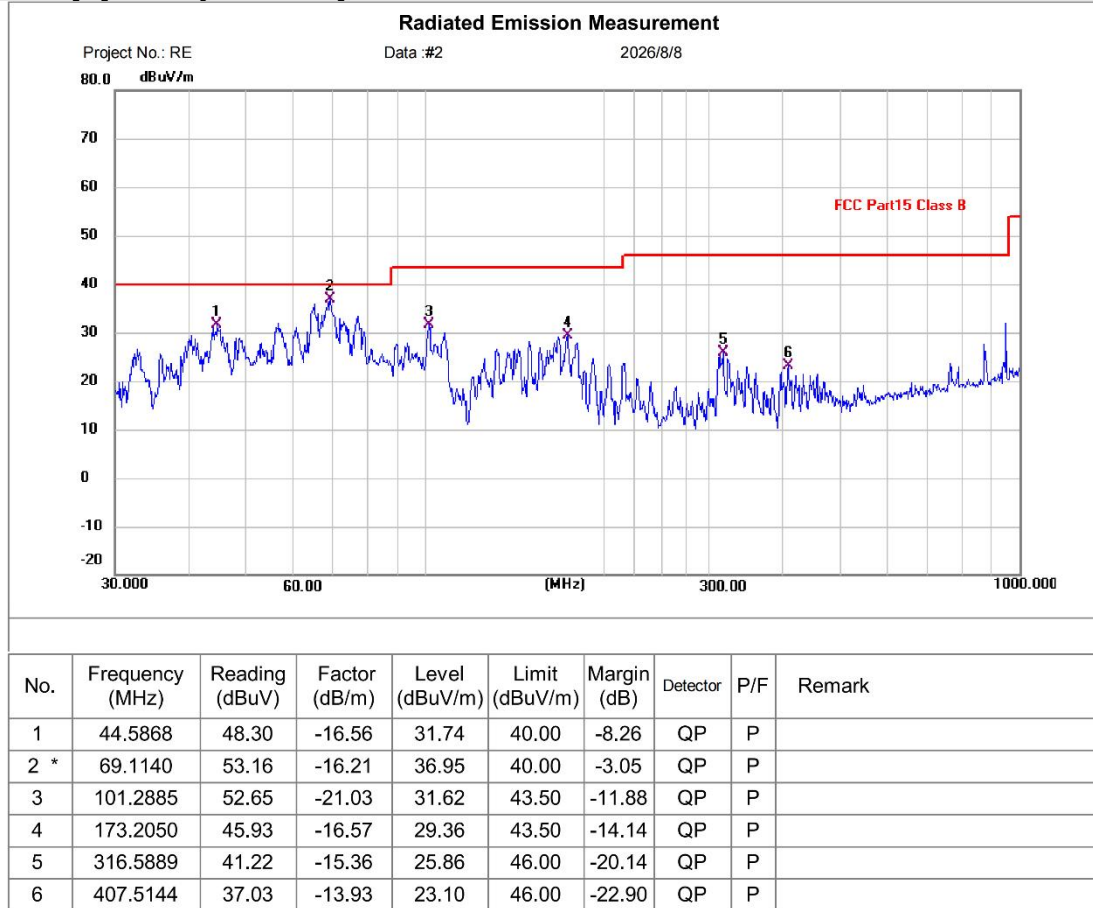
Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]

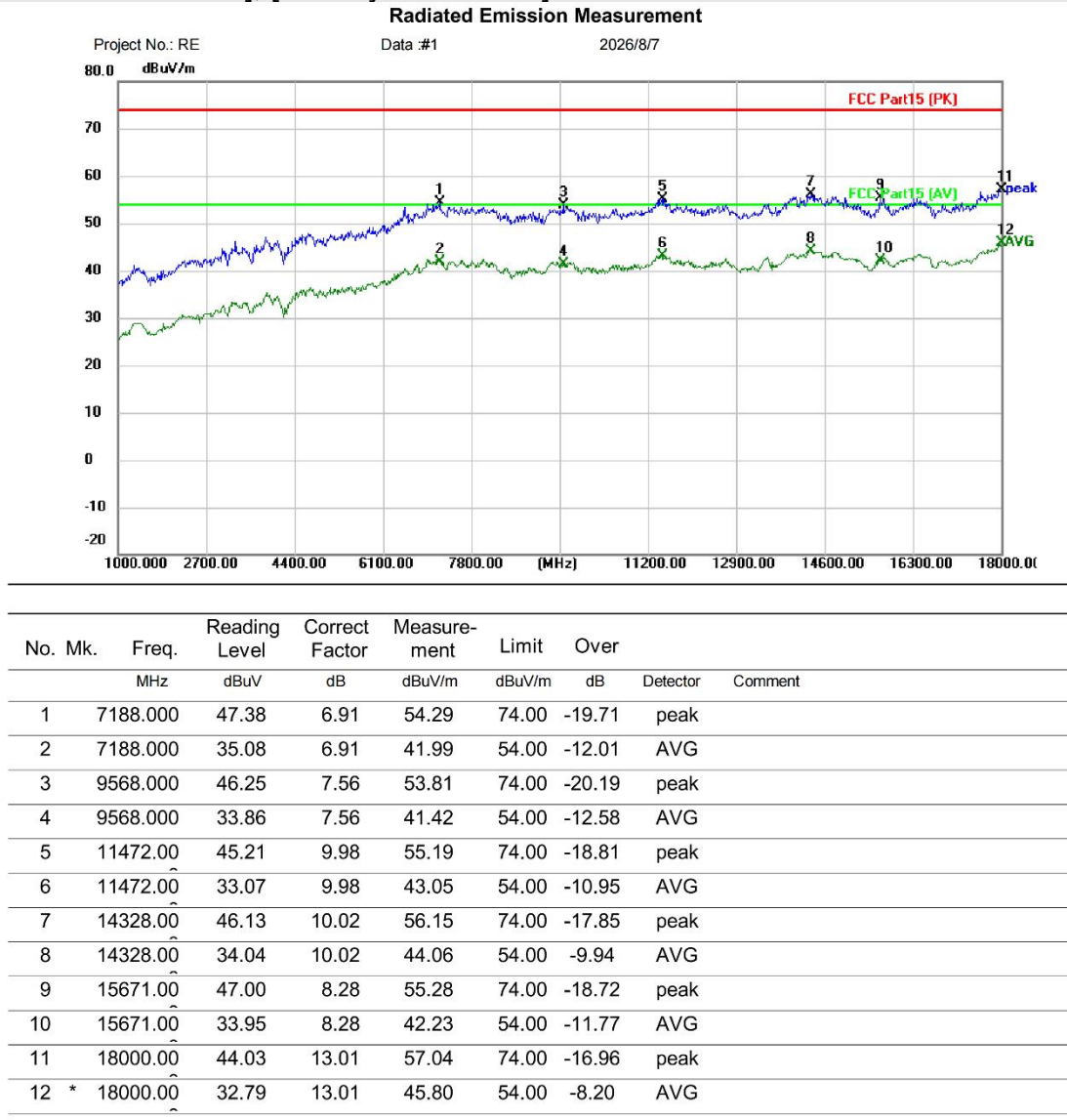


Test Result: Pass

Above 1GHz:

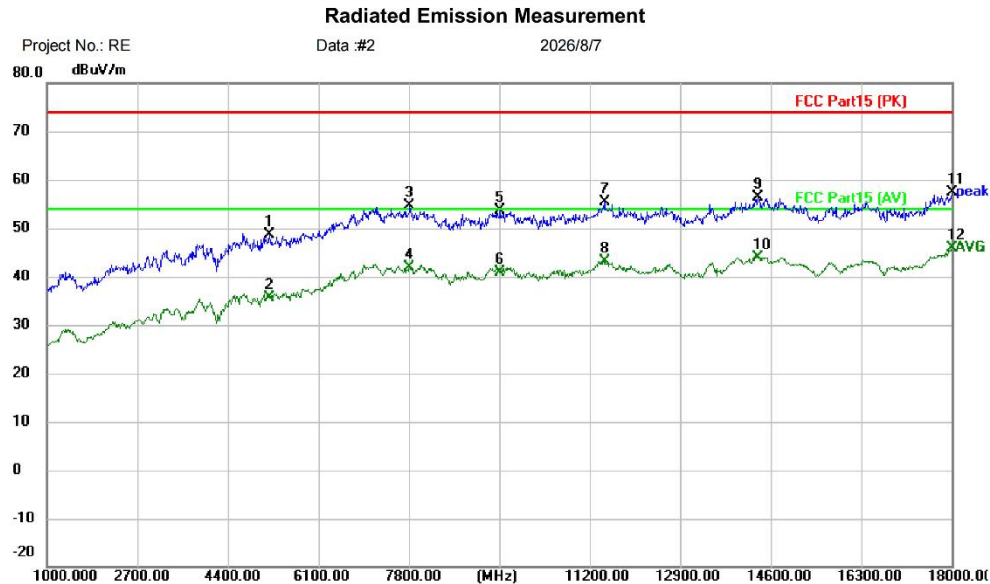
During the test, pre-scan the 802.11b/g/n mode, and found the 802.11b mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]



Test Result: Pass

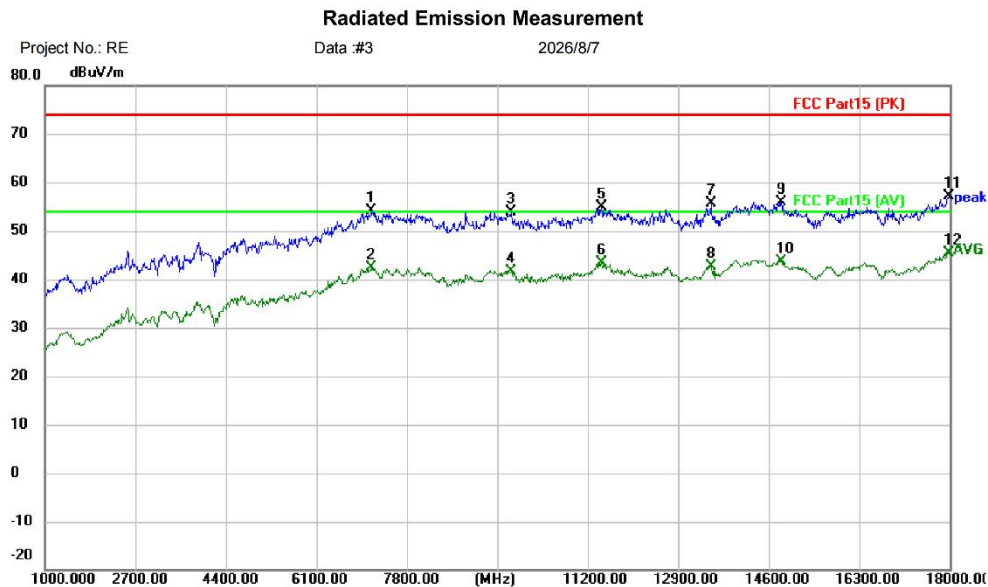
[Test mode: TX low channel]; [Polarity: Vertical]



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	5182.000	48.15	0.41	48.56	74.00	-25.44	peak	
2	5182.000	35.22	0.41	35.63	54.00	-18.37	AVG	
3	7817.000	48.50	6.08	54.58	74.00	-19.42	peak	
4	7817.000	35.73	6.08	41.81	54.00	-12.19	AVG	
5	9517.000	46.53	7.12	53.65	74.00	-20.35	peak	
6	9517.000	33.74	7.12	40.86	54.00	-13.14	AVG	
7	11472.00	45.39	9.99	55.38	74.00	-18.62	peak	
8	11472.00	33.03	9.99	43.02	54.00	-10.98	AVG	
9	14362.00	46.51	9.88	56.39	74.00	-17.61	peak	
10	14362.00	34.09	9.88	43.97	54.00	-10.03	AVG	
11	18000.00	44.40	13.01	57.41	74.00	-16.59	peak	
12 *	18000.00	32.81	13.01	45.82	54.00	-8.18	AVG	

Test Result: Pass

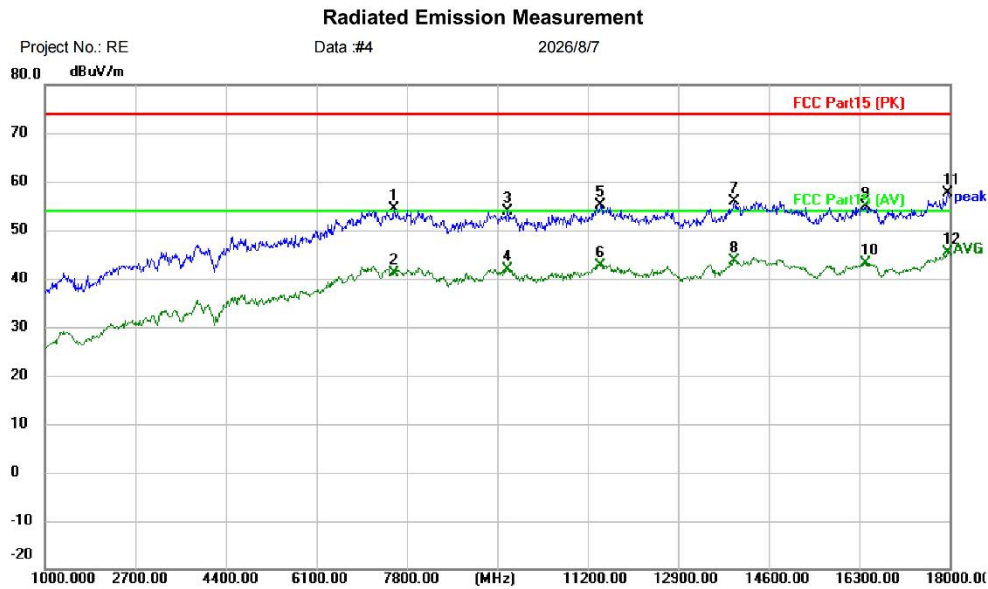
[Test mode: TX middle channel]; [Polarity: Horizontal]



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	7137.000	47.04	7.14	54.18	74.00	-19.82	peak	
2	7137.000	35.28	7.14	42.42	54.00	-11.58	AVG	
3	9755.000	45.57	8.33	53.90	74.00	-20.10	peak	
4	9755.000	33.30	8.33	41.63	54.00	-12.37	AVG	
5	11455.00	45.00	9.89	54.89	74.00	-19.11	peak	
6	11455.00	33.54	9.89	43.43	54.00	-10.57	AVG	
7	13512.00	42.80	12.71	55.51	74.00	-18.49	peak	
8	13512.00	29.93	12.71	42.64	54.00	-11.36	AVG	
9	14838.00	46.23	9.66	55.89	74.00	-18.11	peak	
10	14838.00	33.95	9.66	43.61	54.00	-10.39	AVG	
11	17983.00	44.32	12.76	57.08	74.00	-16.92	peak	
12 *	17983.00	32.63	12.76	45.39	54.00	-8.61	AVG	

Test Result: Pass

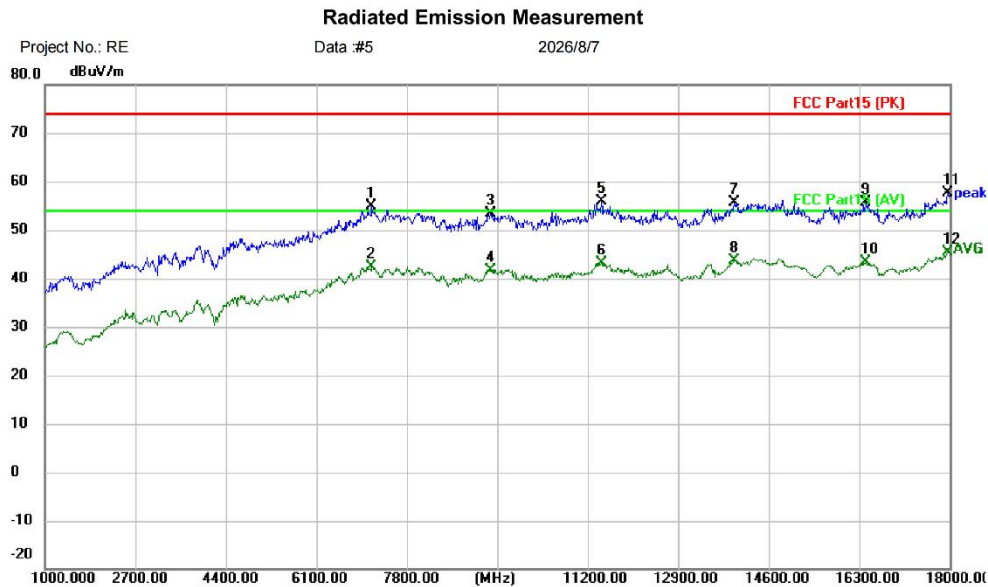
[Test mode: TX middle channel]; [Polarity: Vertical]



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	7562.000	47.80	6.53	54.33	74.00	-19.67	peak	
2	7562.000	34.56	6.53	41.09	54.00	-12.91	AVG	
3	9687.000	45.84	8.02	53.86	74.00	-20.14	peak	
4	9687.000	33.83	8.02	41.85	54.00	-12.15	AVG	
5	11438.00	45.39	9.80	55.19	74.00	-18.81	peak	
6	11438.00	32.94	9.80	42.74	54.00	-11.26	AVG	
7	13954.00	46.02	9.98	56.00	74.00	-18.00	peak	
8	13954.00	33.70	9.98	43.68	54.00	-10.32	AVG	
9	16419.00	45.86	9.10	54.96	74.00	-19.04	peak	
10	16419.00	34.14	9.10	43.24	54.00	-10.76	AVG	
11	17966.00	45.04	12.51	57.55	74.00	-16.45	peak	
12 *	17966.00	32.79	12.51	45.30	54.00	-8.70	AVG	

Test Result: Pass

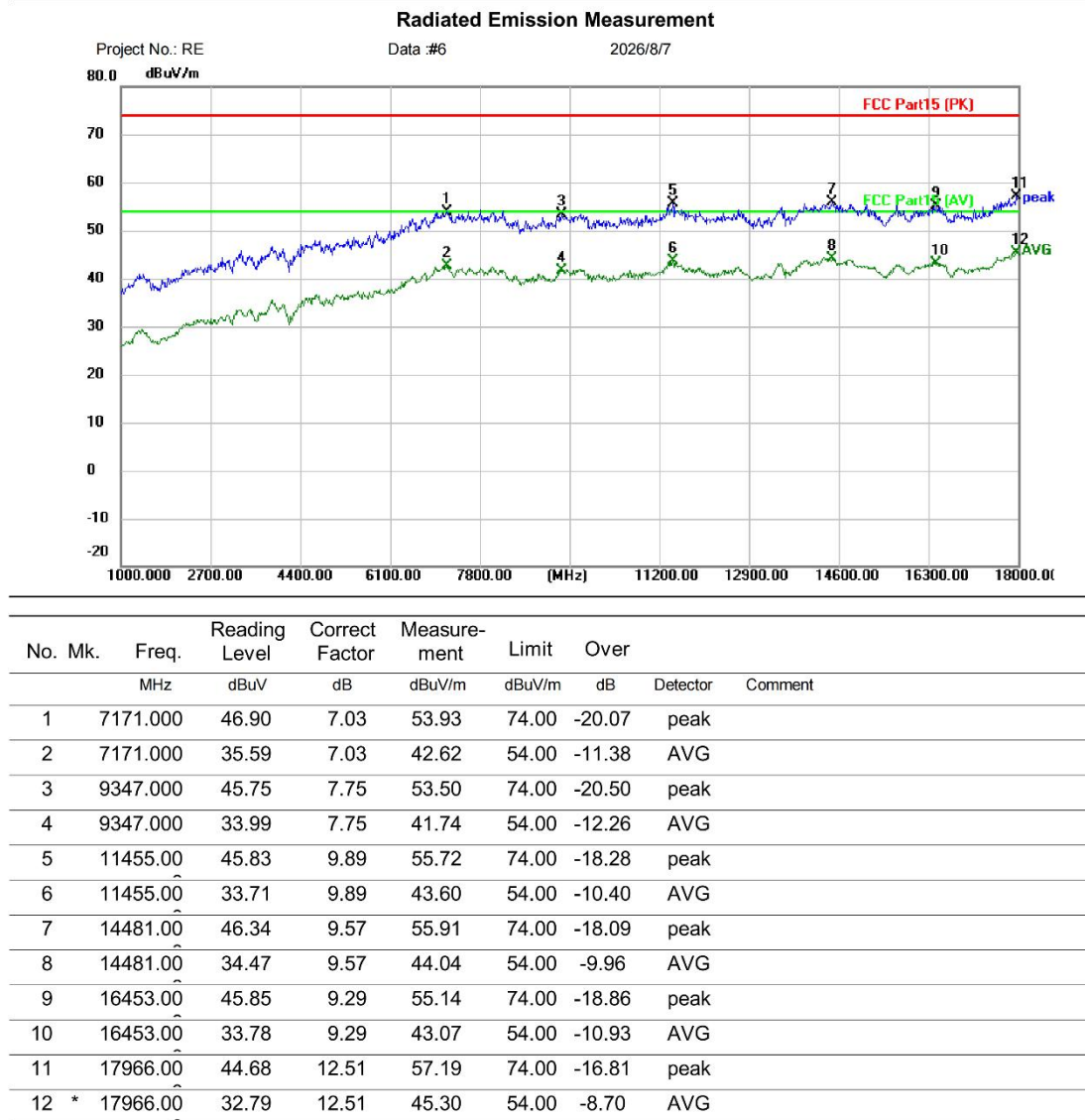
[Test mode: TX High channel]; [Polarity: Horizontal]



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	7137.000	47.66	7.14	54.80	74.00	-19.20	peak	
2	7137.000	35.30	7.14	42.44	54.00	-11.56	AVG	
3	9381.000	46.14	7.35	53.49	74.00	-20.51	peak	
4	9381.000	34.36	7.35	41.71	54.00	-12.29	AVG	
5	11455.00	45.98	9.89	55.87	74.00	-18.13	peak	
6	11455.00	33.35	9.89	43.24	54.00	-10.76	AVG	
7	13954.00	45.67	9.98	55.65	74.00	-18.35	peak	
8	13954.00	33.62	9.98	43.60	54.00	-10.40	AVG	
9	16419.00	46.45	9.10	55.55	74.00	-18.45	peak	
10	16419.00	34.33	9.10	43.43	54.00	-10.57	AVG	
11	17966.00	45.06	12.51	57.57	74.00	-16.43	peak	
12 *	17966.00	32.77	12.51	45.28	54.00	-8.72	AVG	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Test Result: Pass

6.2 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247(d)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Clause 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

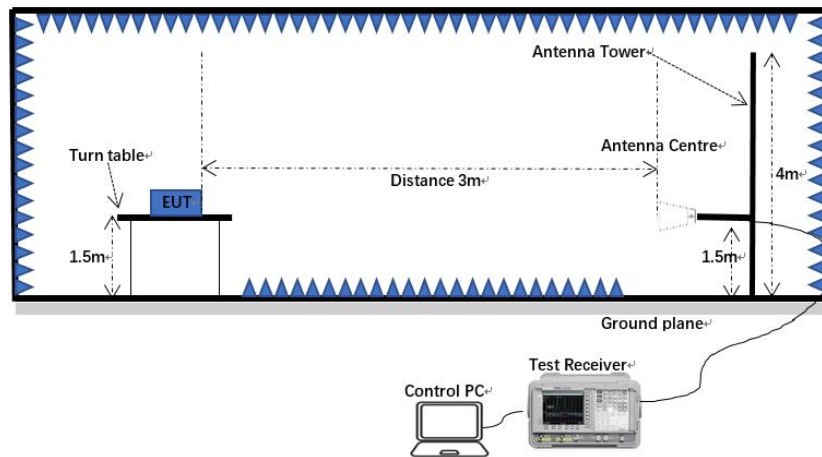
6.2.1 Limit

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.

6.2.2 Test setup

Above 1GHz:



6.2.3 Procedure

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: 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. During the test, pre-scan the Ant1: AWAN; Ant2: SPEEDWIRE; Ant3: Y4RYM0MA0BA; Ant4: FL-DC-3-75; Ant5: FL-DC-2-75, and found the Ant2: SPEEDWIRE which it is worse case.

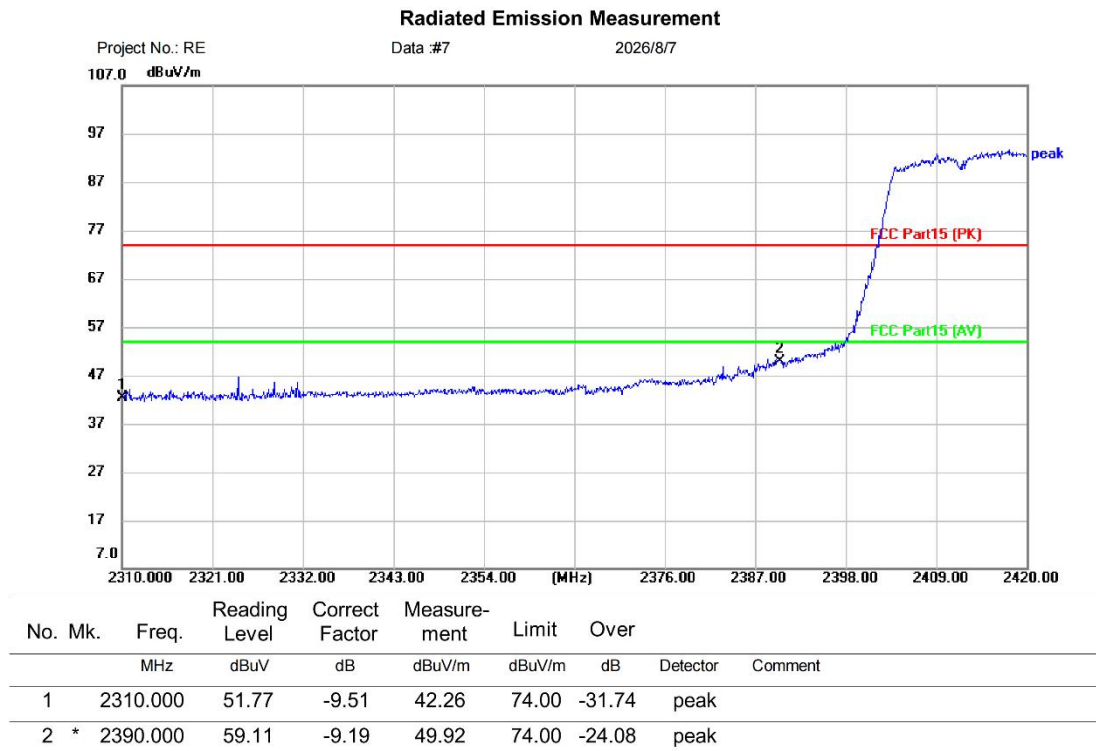
6.2.4 Test data

6.2.4.1 Difference ANT

Ant2: SPEEDWIRE

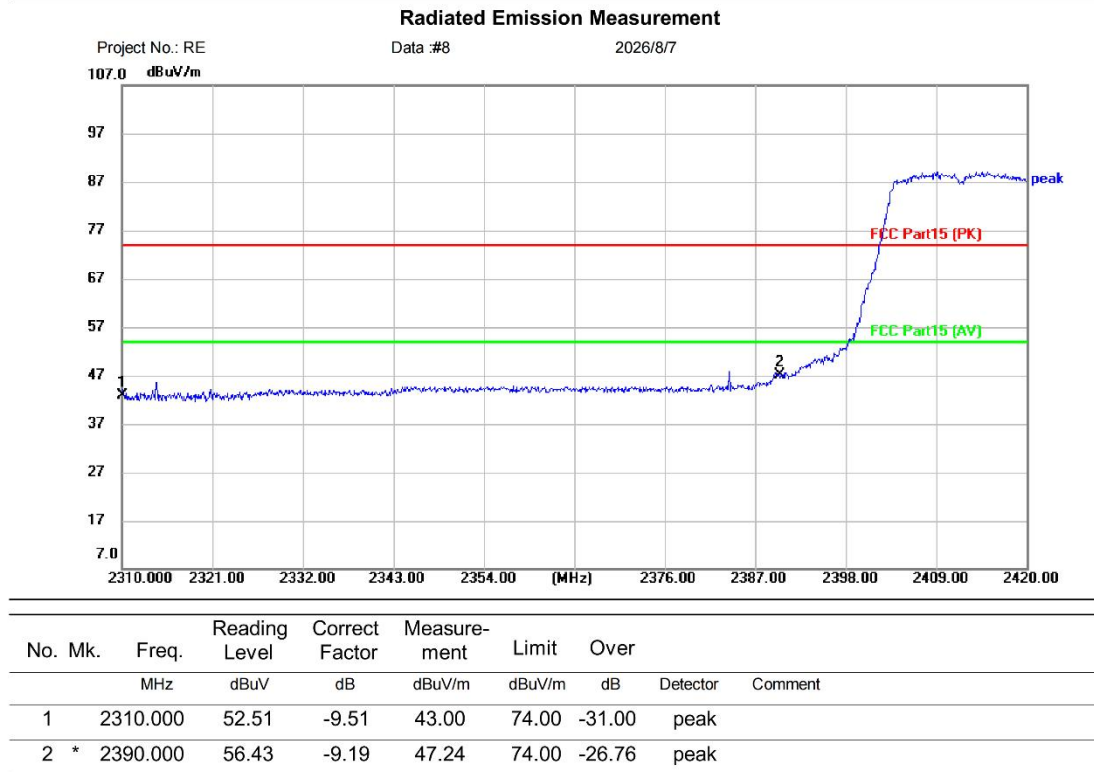
During the test, pre-scan the 802.11b/g/n mode, and found the 802.11g mode which it is worse case.

[Test mode: 802.11G TX low channel]; [Polarity: Horizontal]



Test Result: Pass

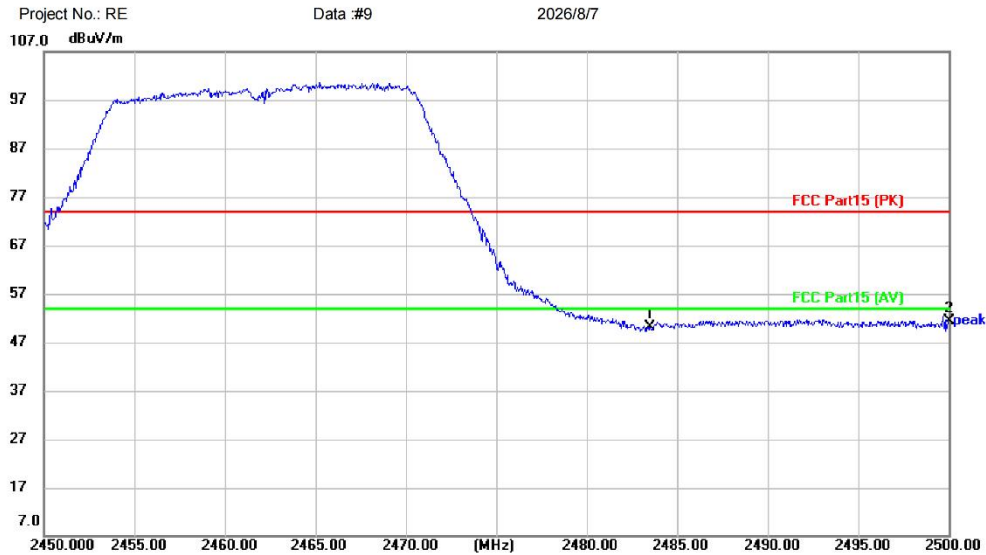
[Test mode: 802.11G TX low channel]; [Polarity: Vertical]



Test Result: Pass

[Test mode: 802.11G TX High channel]; [Polarity: Horizontal]

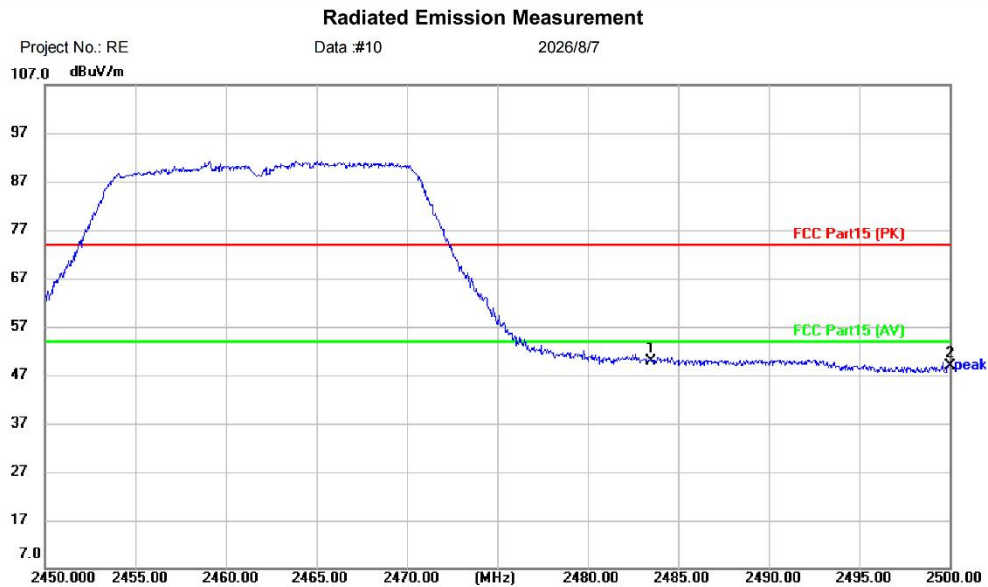
Radiated Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	59.25	-9.14	50.11	74.00	-23.89	peak	
2	*	2500.000	60.57	-9.11	51.46	74.00	-22.54	peak	

Test Result: Pass

[Test mode: 802.11G TX High channel]; [Polarity: Vertical]

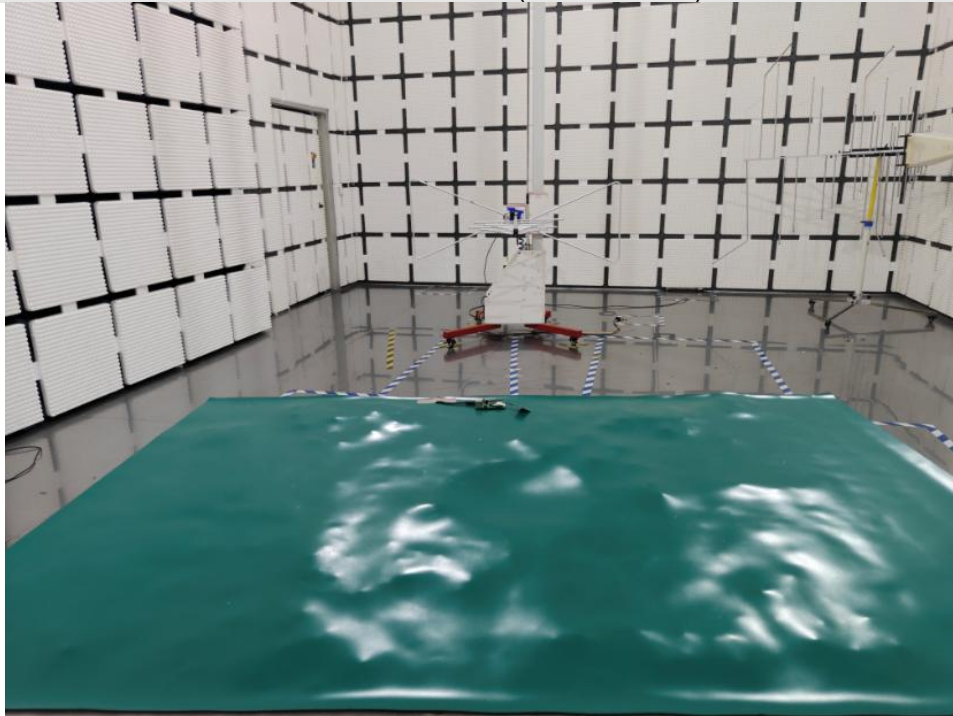


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	58.96	-9.14	49.82	74.00	-24.18	peak	
2		2500.000	58.11	-9.11	49.00	74.00	-25.00	peak	

Test Result: Pass

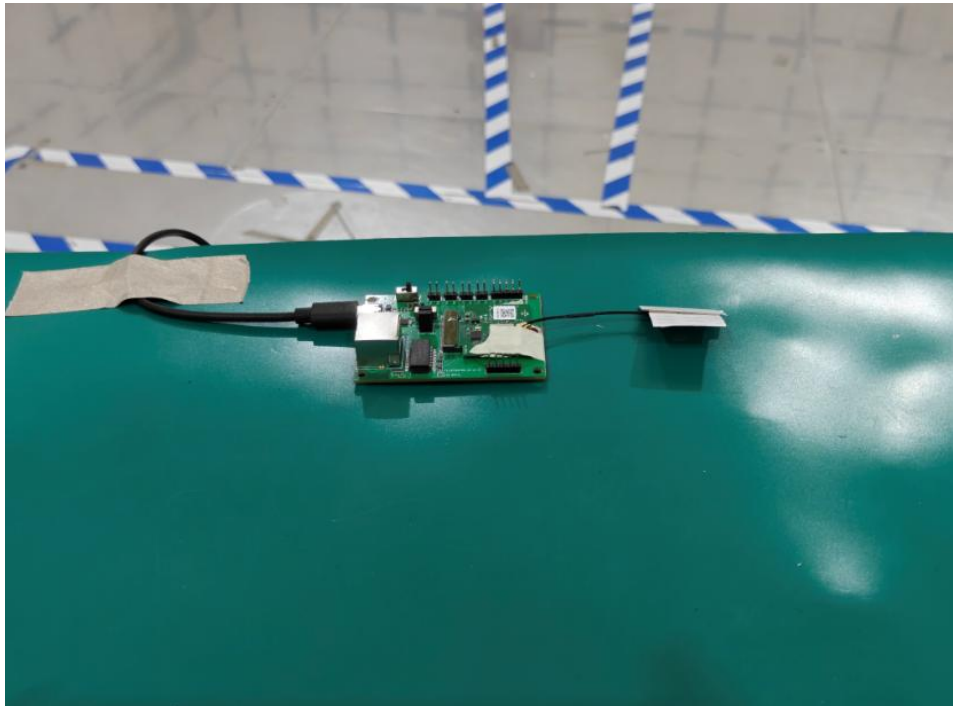
Appendix A: photographs of test setup

Radiated Emissions (30MHz-1GHz)



Radiated Emissions (above 1GHz)





Appendix B: photographs of EUT

Reference to the test report no. BLA-B-EMC-202607-A115-01

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

BlueAsia