



# RF TEST REPORT

**Product Name** : M5 fighter jet regular model

**Brand Name** : TL

**Model** : DRM5

**Series Model** : DRG2, DRG3, DRG5, DRG7, DRGX, DRP1, DRP7, DRP9, DRP10, DRP12, DRP14, DRP18, DRP20, DRM1, DRM2, DRM3, DRM4, DRM5, DRM6, DRM7, DRM8, DRM9, DRM10, E88, DRE88, DR0908, DR1815, DRS1915, SR2415, DRS2614

**FCC ID** : 2BBUZ-DRM5

**Applicant** : **Shanghai Tongli Technology Co.**

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**Manufacturer** : **Shanghai Tongli Technology Co.**

**Address** : Building 7, No.8 Hangdu Road, Hangtou Town, Pudong New Area, Shanghai

**Standard(s)** : FCC CFR Title 47 Part 15 Subpart C Section 15.249

**Date of Receipt** : Dec. 03, 2024

**Date of Test** : Dec. 03, 2024~ Dec. 16, 2024

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**Issued By:** **Guangdong Asia Hongke Test Technology Limited**  
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# 1. TEST SUMMARY

## 1.1. TEST STANDARDS

The tests were performed according to following standards:

**FCC Rules Part 15.249:** Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

**ANSI C63.10-2013:** American National Standard for Testing Unlicensed Wireless Devices.

## 1.2. REPORT VERSION

Report Version	Issued Date	Notes
M1	Dec. 16, 2024	Initial Release

### 1.3. TEST DESCRIPTION

FCC Rules Part 15.249		
Test Item	Section in CFR 47	Result
	FCC	
Antenna requirement	15.203	Pass
AC Power Line Conducted Emissions	15.207	N/A
20dB Bandwidth	Section 15.215(c)	Pass
Band edge & Restricted band Emissions	Section 15.249(d), Section 15.205(a)	Pass
Radiated Spurious Emissions	Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35	Pass

Note:

1. The measurement uncertainty is not included in the test result.
2. "N/A" indicates that it is not applicable.

### 1.4. TABLE OF CARRIER FREQUENCY

Channel Number	Frequency MHz	Channel Number	Frequency MHz	Channel Number	Frequency MHz
1	2440	/	21	2461	/
2	2441		22	2462	
3	2442		23	2463	
4	2443		24	2464	
5	2445		25	2465	
6	2446		26	2466	
7	2447		27	2467	
8	2448		28	2468	
9	2449		29	2469	
10	2450		30	2470	
11	2451		31	2471	
12	2452		32	2472	
13	2453		33	2473	
14	2454		34	2474	
15	2455		35	2475	
16	2456		36	2476	
17	2457		37	2477	
18	2458		38	2478	
19	2459				
20	2460				

## 1.5. MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 "system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	0.009MHz-30MHz	3.10dB	(1)
Radiated Emission	30MHz-1GHz	3.75dB	(1)
Radiated Emission	1GHz-18GHz	3.88dB	(1)
Radiated Emission	18GHz-40GHz	3.88dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	1.20dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 1.6. ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

## 2. GENERAL INFORMATION

### 2.1. GENERAL DESCRIPTION OF EUT

Product Name:	M5 fighter jet regular model
Trade Mark:	TL
Model/Type reference:	DRM5
Serial model(s):	DRG2, DRG3, DRG5, DRG7, DRGX, DRP1, DRP7, DRP9, DRP10, DRP12, DRP14, DRP18, DRP20, DRM1, DRM2, DRM3, DRM4, DRM5, DRM6, DRM7, DRM8, DRM9, DRM10, E88, DRE88, DR0908, DR1815, DRS1915, SR2415, DRS2614
Difference Description	All transmitters are the same, there is no difference, only the receiver part is different. Receiver part: The circuit design and PCB design of the product are the same as the internal structure, only the Color, LED chip Qty, battery capacity are different.
Power supply	DC 4.5V
Hardware version:	N/A
Software version:	N/A
<b>Specification</b>	
Modulation:	GFSK
Operation frequency:	2440MHz-2479MHz
Channel number:	38
Antenna type:	Internal Antenna
Antenna gain:	Max. 0.0dBi

## 2.2. MEASUREMENT INSTRUMENTS LIST

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Measuring Receiver	R&S	ESR	101160	2024.09.25	2025.09.24
2	Spectrum Analyzer	R&S	FSV40	101470	2024.09.23	2025.09.22
3	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2024.09.25	2025.09.24
4	Low Noise Pre Amplifier	CESHENG	CSKJLNA231016 A	CSKJLNA231016A	2024.09.25	2025.09.24
5	Passive Loop	ETS	6512	00165355	2024.08.29	2027.08.28
6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2027.08.28
7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
8	Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367	2024.08.28	2027.08.27
9	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2024.09.24	2025.09.23
10	EMI Test Receiver	R&S	ESPI	100771	2024.09.25	2025.09.24
11	LISN	R&S	NNLK 8129	8130179	2024.09.24	2025.09.23
12	LISN	R&S	ESH3-Z5	892785/016	2024.09.23	2025.09.22
13	Pulse Limiter	R&S	ESH3-Z2	102789	2024.09.24	2025.09.23
14	RF Automatic Test system	TST	TSTPASS	21033016	2024.09.25	2025.09.24
15	Vector Signal Generator	Agilent	N5182A	MY50143009	2024.09.25	2025.09.24
16	Analog signal generator	Agilent	E8257	MY51554256	2024.09.25	2025.09.24
17	Spectrum Analyzer	Agilent	N9020A	MY51289843	2024.09.25	2025.09.24
18	Spectrum Analyzer	Agilent	N9020A	MY53421570	2024.09.25	2025.09.24
19	Power Sensor	Agilent	8481A	MY41097697	2024.09.25	2025.09.24
20	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2024.09.24	2025.09.23
21	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	N/A	N/A
22	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
23	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A
24	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A
25	RF Software	cesheng	WCS-WCN	Version 2024.6.20	N/A	N/A
26	temporary antenna connector(Note)	NTS	R001	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



## 2.3. DESCRIPTION OF TEST MODES

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Test Frequency: 2440 MHz, 2458 MHz, 2478 MHz.

### Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

## 2.4. TEST SOFTWARE

Software name	Model	Version
Conducted emission Measurement Software	EZ-EMC	EMC-Con 3A1.1
Radiated emission Measurement Software	EZ-EMC	FA-03A.2.RE
Bluetooth and WIFI Test System	JS1120-3	2.5.77.0418

## 3. TEST ITEM AND RESULTS

### 3.1. ANTENNA REQUIREMENT

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### Test Result

The antenna is Internal Antenna. The maximum gain of the antenna is 0 dBi.

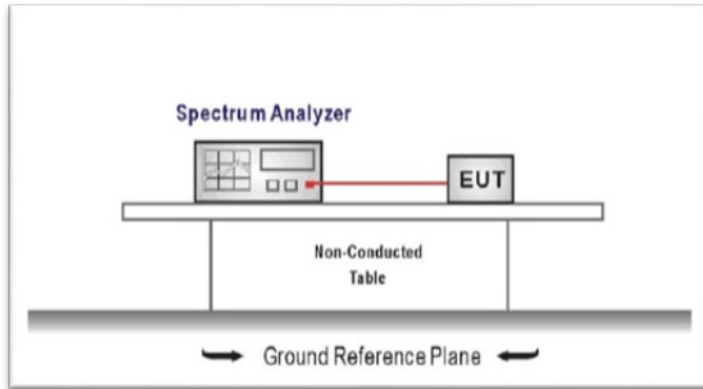
**The unit does meet the FCC requirements.**

### 3.2. 20dB BANDWIDTH

#### Limit

Operation Frequency range 2400 ~ 2483.5 MHz.

#### Test Configuration



#### Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:  
 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
 RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  RBW  
 Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

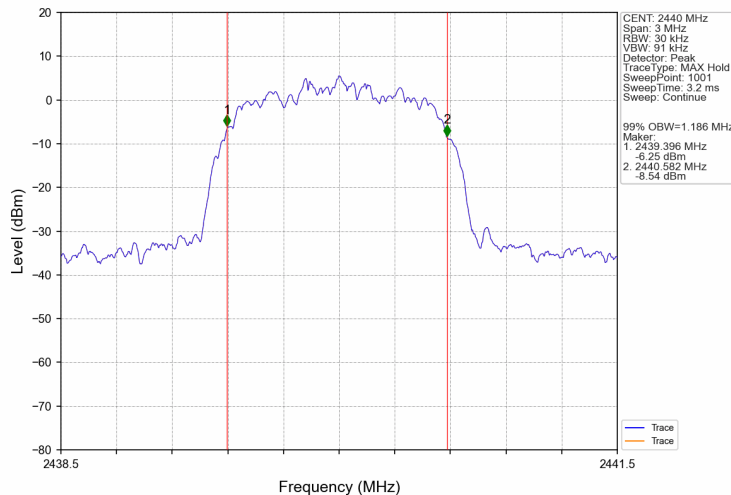
#### Test Mode

Please refer to the clause 2.2.

#### Test Results

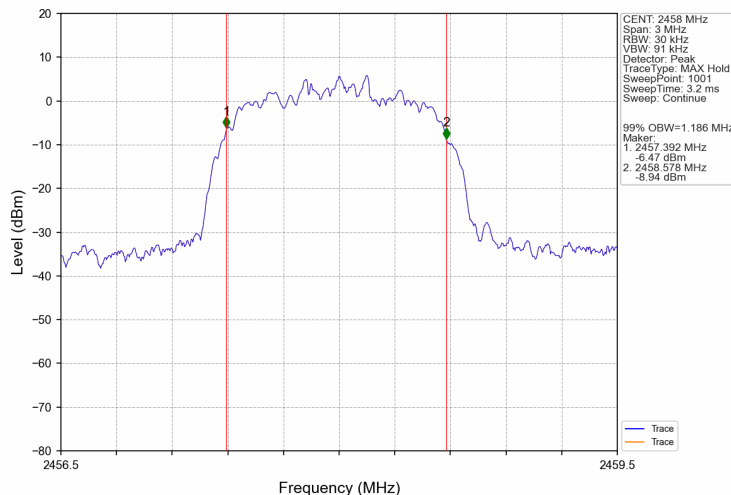
Channel frequency (MHz)	20dB Bandwidth [MHz]	Verdict
2440	1.186	PASS

2440 MHz



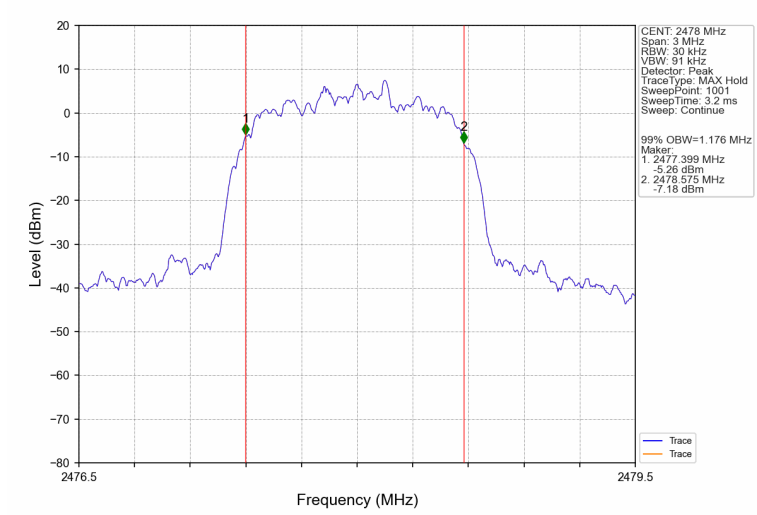
Channel frequency (MHz)	20dB Bandwidth [MHz]	Verdict
2458	1.186	PASS

2458 MHz



Channel frequency (MHz)	20dB Bandwidth [MHz]	Verdict
2478	1.176	PASS

2478 MHz



### 3.3. CONDUCTED EMISSION

#### Limit

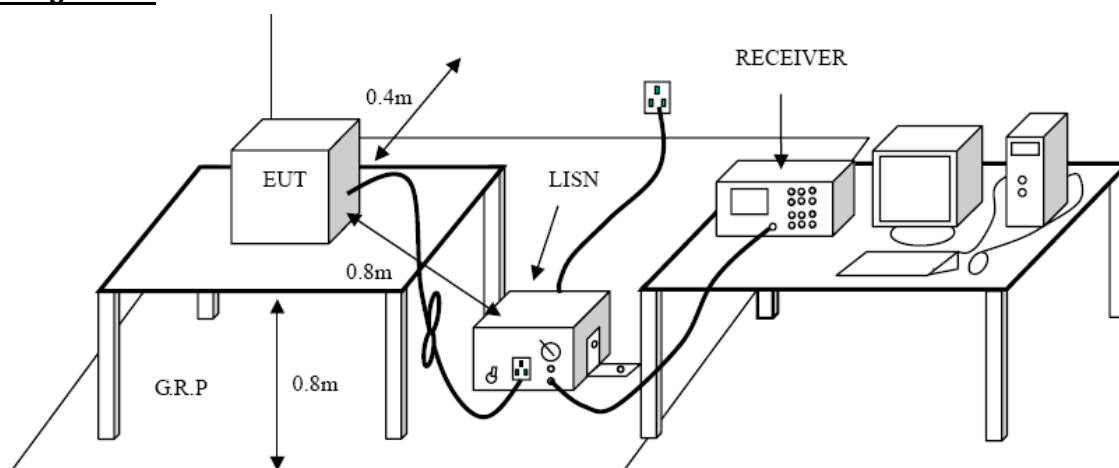
**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### Test Configuration



#### Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

**Test Results**

N/A

The EUT is powered by DC power.

### 3.4. RADIATED SPURIOUS EMISSIONS

**LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.209(a) and 15.205(a)

**Standard FCC15.249**

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)
2400-2483.5MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)
5725-5875MHz	50 (94dBuV/m @3m)	500 (54dBuV/m @3m)
24.0-24.25GHz	250 (108dBuV/m @3m)	2500 (68dBuV/m @3m)

**Standard FCC 15.209**

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0dB( $\mu$ V)/m(Peak) 54.0dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m  
 (2) The smaller limit shall apply at the cross point between two frequency bands.  
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

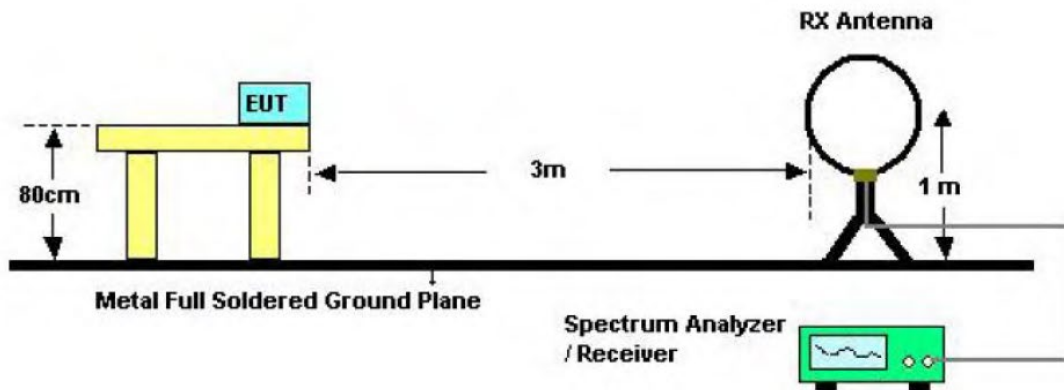
**FREQUENCY RANGE OF RADIATED MEASUREMENT**

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 1MHz/ VBW 1MHz for Peak, RBW 1MHz/ VBW 10Hz for Average

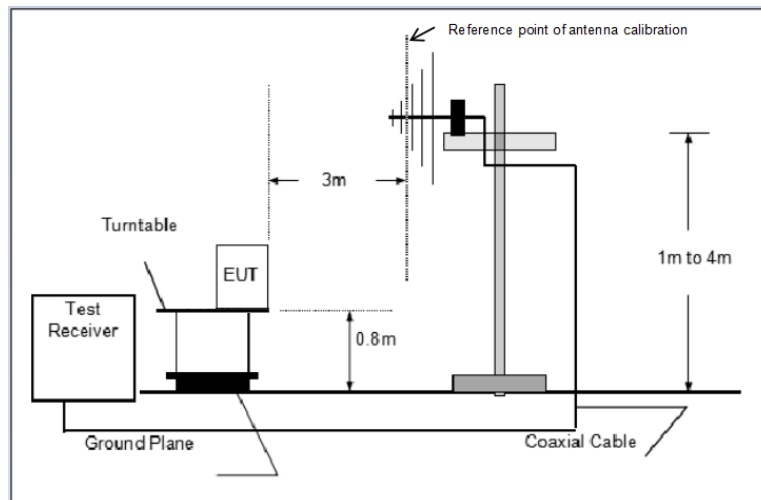


Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

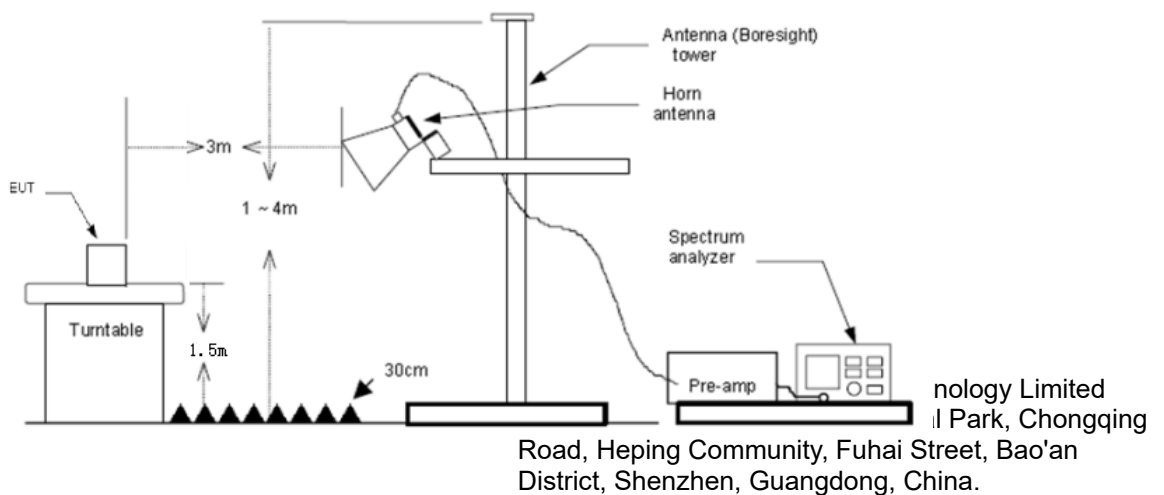
**Test Configuration**



Below 30MHz Test Setup



Below 1000MHz Test Setup



## Above 1GHz Test Setup

**Test Procedure**

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:  
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;  
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1 GHz to 10<sup>th</sup> harmonic:  
RBW=1MHz, VBW=3MHz Peak detector for Peak value.  
RBW=1MHz, VBW=10Hz Peak detector for Average value.

**TEST MODE:**

Please refer to the clause 2.2.

**TEST RESULTS**

**Passed**                       **Not Applicable**

**9 KHz~30 MHz and 18GHz~25GHz**

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

- 1) Final level = Reading level + Correct Factor  
Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4) 18GHz ~ 25GHz  
The EUT was pre-scanned the frequency band (18GHz~25GHz), found the radiated level(Background noise) lower than the limit, so don't show on the report. 3

**Radiated field strength of the fundamental signal**

Pre-scan all test modes, found worst case at GFSK (LCH), and so only show the test result of GFSK (LCH).

Frequency (MHz)	Read Level (dBuV)	Correct Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dBuV/m)	Polarization	Test value
2440	91.16	-5.04	86.12	94.00	-7.88	Horizontal	Peak
2440	78.60	-5.05	73.55	94.00	-20.45	Vertical	Peak

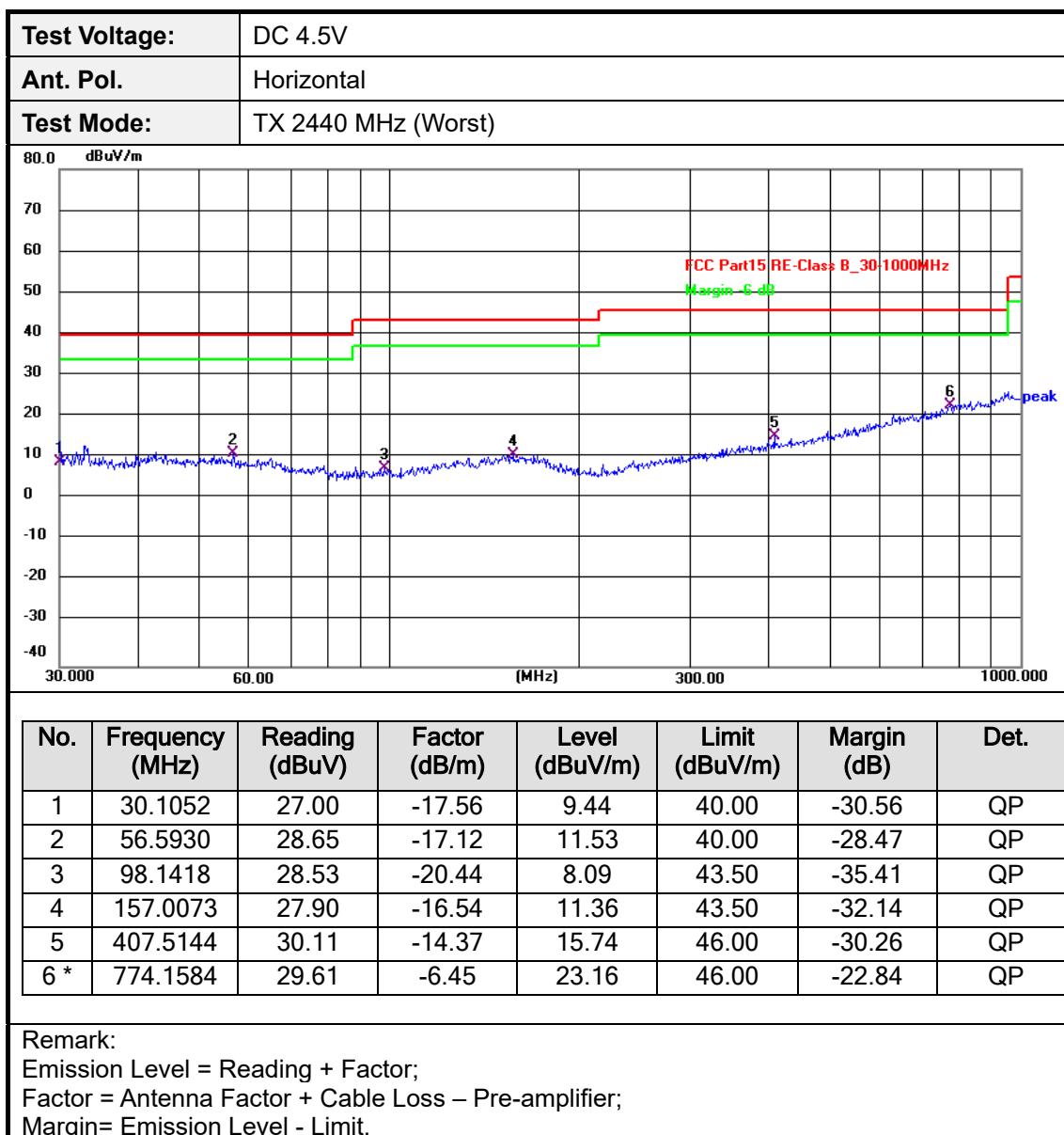
Note:

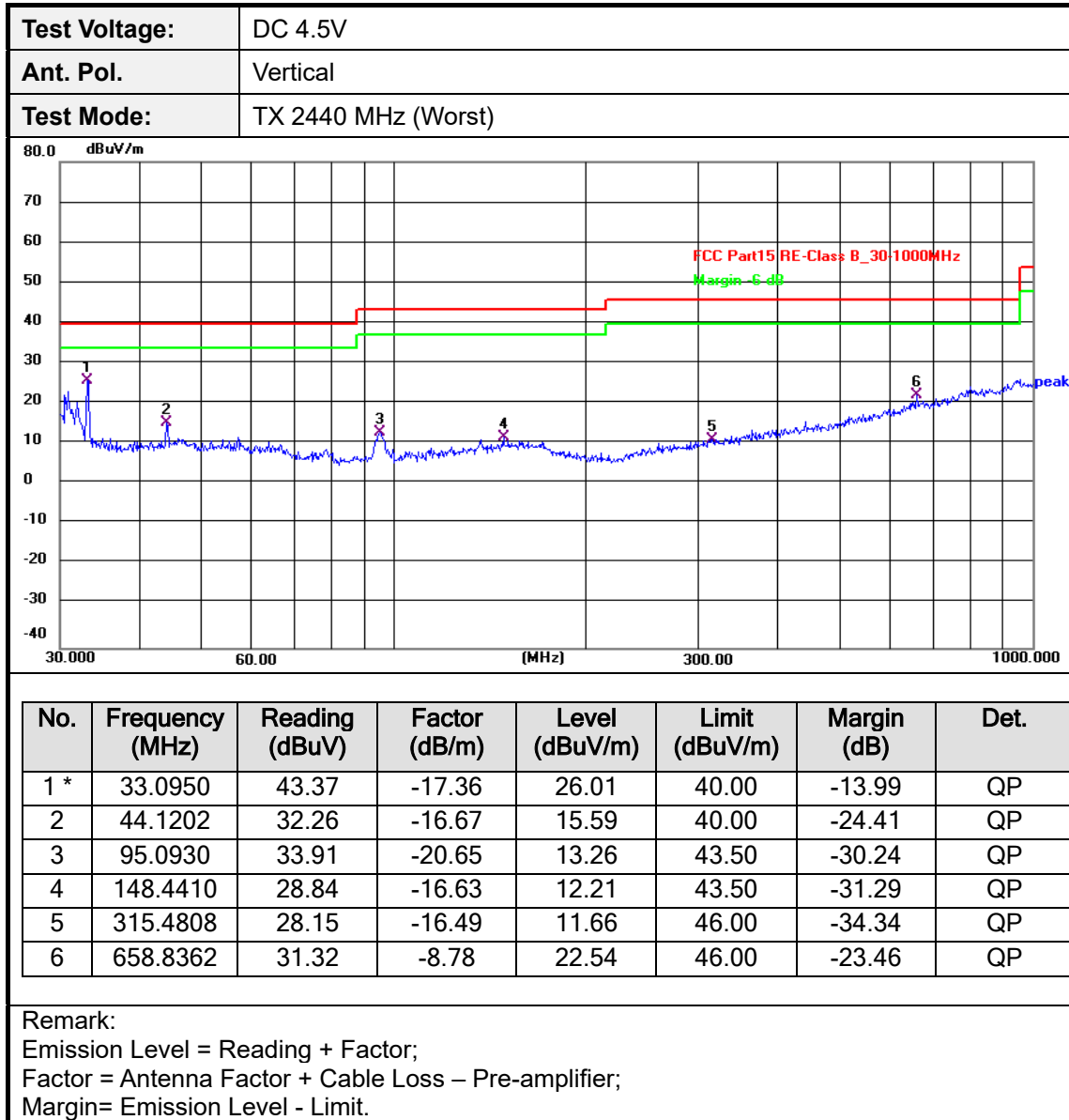
1. Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
2. Level = Read Level +Correct Factor
3. The PEAK value is less than the AVG limit, the AVG result no need be show in this report.

**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

30MHz-1GHz





**Note:**

All test modes had been tested. The TX 2440 MHz is the worst case and recorded in the report.

**Adobe 1GHz**

**Antenna polarization: Horizontal:**

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4880	47.25	5.06	52.31	74	-21.69	PEAK
4880	36.62	5.06	41.68	54	-12.32	AVG
7320	44.70	7.03	51.73	74	-22.27	PEAK
7320	30.18	7.03	37.21	54	-16.79	AVG

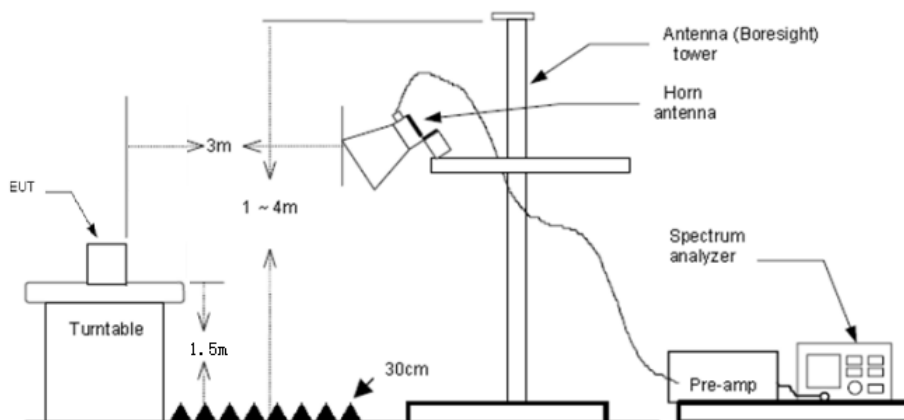
**Antenna polarization: Vertical:**

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
4880	45.44	5.06	50.50	74	-23.50	PEAK
4880	34.84	5.06	39.90	54	-14.10	AVG
7320	46.26	7.03	53.29	74	-20.71	PEAK
7320	31.59	7.03	38.62	54	-15.38	AVG

Remark: Other emissions of harmonics are attenuated 20dB below the limits, so it does not recorded in report.

### 3.5. BAND EDGE AND RESTRICTED BAND EMISSIONS(RADIATED)

#### Test Configuration



#### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - RBW=1MHz, VBW=3MHz PEAK detector for Peak value.
  - RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

#### Test Mode

Please refer to the clause 2.2.

#### Test Results

**Passed**                       **Not Applicable**

Note:

- 1) Final level= Read level + Antenna Factor + Cable Loss - Preamp Factor
- 2) Correction Factor = Antenna factor + cable loss
- 3) The peak level is lower than average limit(54dBuV/m), this data is the too weak instrument of signal is unable to test.
- 4) The emission levels of other frequencies are very lower than the limit and not show in test report.

**GFSK-Low**

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2385.62	41.58	-6.04	35.54	54	-18.46	peak
2	2390	40.24	-5.72	34.52	54	-19.48	peak
3	2400	41.41	-5.61	35.8	54	-18.2	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2384.94	41.32	-5.67	35.65	54	-18.35	peak
2	2390	40.43	-5.94	34.49	54	-19.51	peak
3	2400	40.23	-5.65	34.58	54	-19.42	peak

**GFSK-High**

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2483.5	36.41	-5.29	31.7	54	-42.3	peak
2	2486.31	36.77	-4.69	33.07	54	-40.93	peak

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2483.5	37.88	-5.15	31.7	54	-42.3	peak
2	2483.81	36.29	-4.92	33.07	54	-40.93	peak

Remarks:

- 1).  $Margin = Emission\ Level - Limit$
- 2).  $Emission\ Level = Reading + Factor$
- 3).  $Factor = Antenna\ Factor + Cable\ Loss - Pre-amplifier$
- 4). All the modes have been tested and the only shows the worst case GFSK mode.
- 5). The PEAK value is less than the AVG limit, the AVG result no need be show in this report.



#### **4. Test Setup Photographs of EUT**

Please refer to separated files for Test Setup Photos of the EUT.

#### **5. External Photographs of EUT**

Please refer to separated files for External Photos of the EUT.

#### **6. Internal Photographs of EUT**

Please refer to separated files for Internal Photos of the EUT.

\*\*\*\*\*THE END\*\*\*\*\*