



RADIO TEST REPORT

Applicant	:	Horus Automation LLC
Address of Applicant	:	2875 NE 191st St. Suite 406. Aventura, Florida. 33180. United States.
Manufacturer	:	Shenzhen ZVIDAR Technologies CO.,Ltd.
Address of Manufacturer	:	Room 468, Building F1, TCL Technologies Park, 1001, Zhongshanyuan Road, Shuguang Community, Xili Street Office, Nanshan District, Shenzhen City
Equipment under Test	:	Horus Nexxo 800 Smart Controller
Model No.	:	HSC-ZW885
FCC ID	:	2BVJJHSCZW885
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+ Errata to C63.10a-2024
Report No.	:	DDT-RE26072021-1E02
Issue Date	:	2026/09/08
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+ Errata to C63.10a-2024

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE26072021-1E02		
Date of Receipt:	2026/05/19	Date of Test:	2026/05/19 - 2026/06/17

Created: Tiger Mo	Reviewed: Johnson Huang	Approved: Ella Gong
		
2026/08/11	2026/09/08	2026/09/08

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/09/08	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	Duty Cycle	ANSI C63.10 clause 7.5	/	Pass
2	20dB Bandwidth	47 CFR Part 15 15.215	/	Pass
3	Radiated Emission	47 CFR Part 15 15.209, 47 CFR Part 15 15.249	/	Pass
4	Field Strength Of The Fundamental Signal	47 CFR Part 15 15.209, 47 CFR Part 15 15.249,	/	Pass
5	Power Line Conducted Emissions	47 CFR Part 15 15.207	/	Pass
6	Antenna Requirement	47 CFR Part 15 15.203	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	:	Horus Nexxo 800 Smart Controller
Model Number	:	HSC-ZW885
Difference of model number	:	/
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	Type-C port DC 5V from external adapter
Hardware Version	:	ZW885-V2.2
Software Version	:	5.4.125
Antenna Type	:	SMD antenna
Max Antenna Gain(dBi)	:	2

Radio Technology	:	SRD
Operation frequency	:	908.40 MHz, 908.42 MHz, 916 MHz
Modulation	:	FSK

Channel information	
Channel	Frequency (MHz)
1	908.40
2	908.42
3	916.00

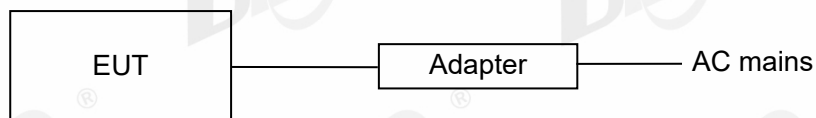
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: putty.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table:

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, information		
Mode	Setting Tx Power	Frequency(MHz)
Tx mode	100	908.40
	100	908.42
	100	916.00

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

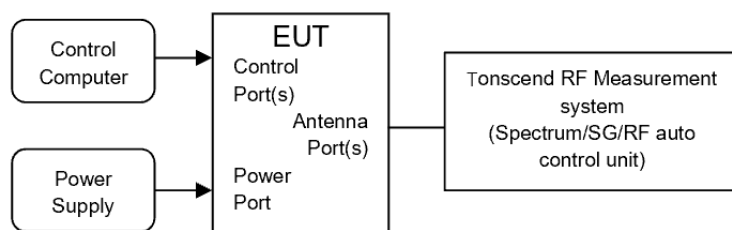
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9 \text{ kHz} \leq f < 7 \text{ GHz}$);
	3.31 dB ($7 \text{ GHz} \leq f < 40 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. EQUIPMENT USED DURING CONDUCTIVE TEST

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2027/02/28
Wideband Radio Communication Tester	R&S	CMW500	117491	2027/02/28
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2027/02/28
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2027/02/28
RF Control Unit	Tonscend	JS0806-2	158060010	2027/02/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2027/02/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. Duty Cycle

4.1. Block diagram of test setup



4.2. Limits

Just for Report and determining the average value of pulsed emissions.

4.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 3 MHz.

Video BW: 3 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Max Hold.

Sweep: Video Trigger

Sweep time: 100 ms

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

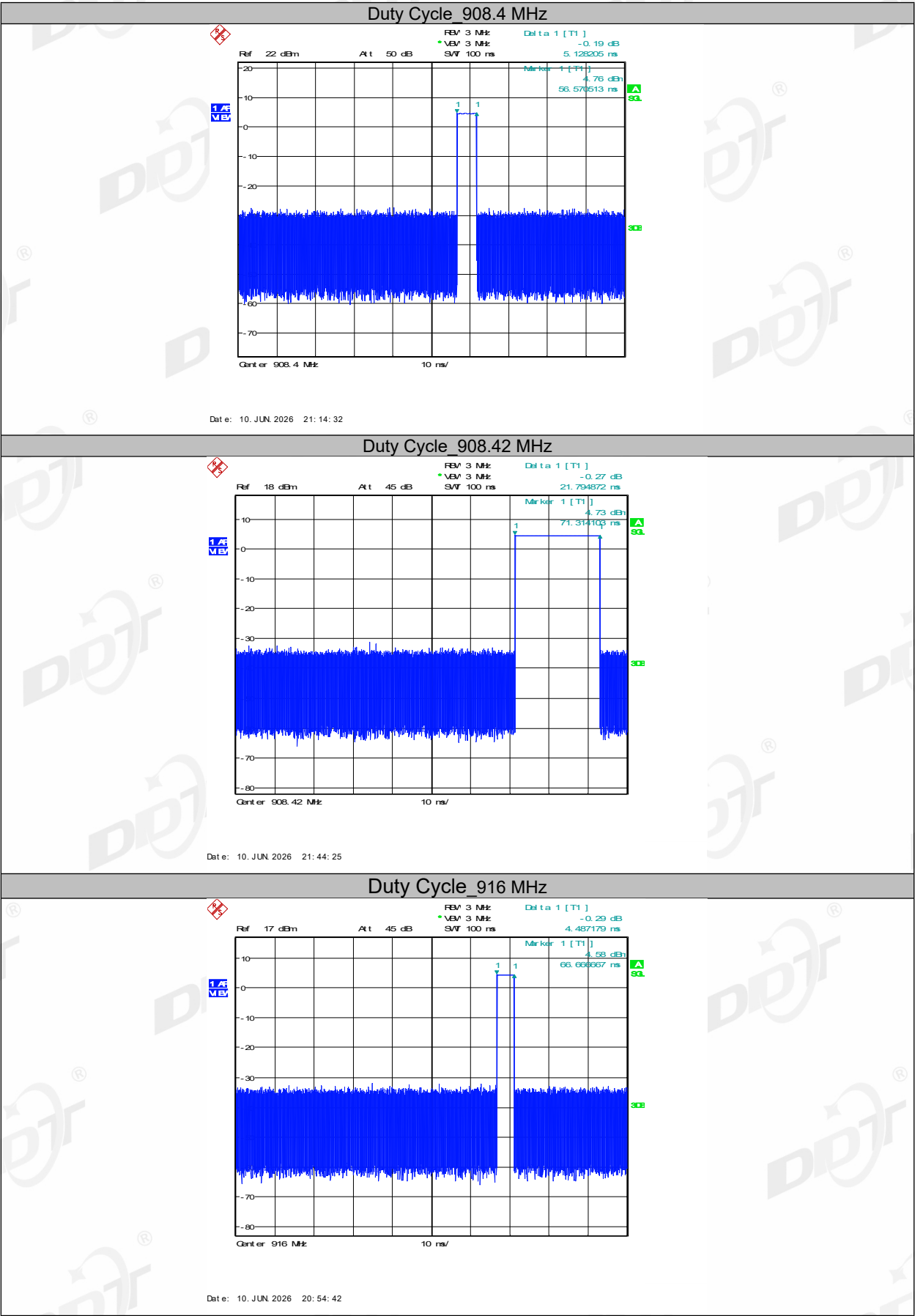
Duty cycle= Pulse's on time / Burst cycle

4.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2026/6/10 - 2026/6/10
Test Power Supply:	DC 5V	Sample Number:	S26042808-003

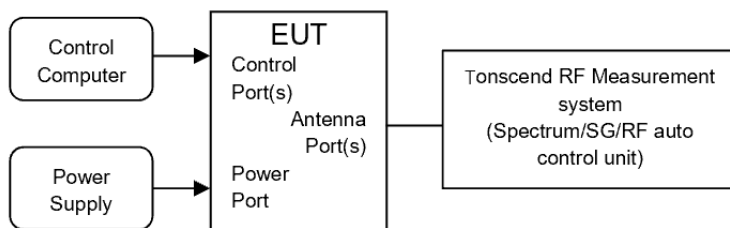
Mode	Freq (MHz)	Antenna	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
FSK	908.40	Ant1	5.128	100	5.128	-25.80
	908.42	Ant1	21.795	100	21.795	-13.23
	916.00	Ant1	4.487	100	4.487	-26.96

4.5. Test graphs



5. 20 dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, measure the 20 dB bandwidth of signal.

5.4. Test result

Test Engineer:	Lin Guoyuan	Test Site:	RF Measurement System 1#
Ambient Condition:	23.5 °C, 55%RH	Test Date:	2026/6/10 - 2026/6/15
Test Power Supply:	DC 5V	Sample Number:	S26042808-003

Mode	Freq (MHz)	20 dB bandwidth Result (MHz)	Limit (MHz)	Verdict
FSK	908.40	0.0889	/	Pass
	908.42	0.0689	/	Pass
	916.00	0.1138	/	Pass

20 dB bandwidth_908.40 MHz

Ref 21 dBm Att 50 dB RBW 3 kHz VBW 10 kHz SMT 60 ns Marker 1 [T1] 0.60 dBm 908.397596154 MHz

1 R VBW

ndB [T1] 20.00 dB
BW 88.942307692 kHz
Temp 1 [T1] ndB -19.70 dBm
908.353526641 MHz
Temp 2 [T1] ndB -19.09 dBm
908.442467949 MHz

3dB

Center 908.40 MHz 50 kHz/ Span 500 kHz

Date: 15. JUN 2026 21:42:34

20 dB bandwidth_908.42 MHz

Ref 21 dBm Att 50 dB RBW 3 kHz VBW 10 kHz SMT 60 ns Marker 1 [T1] 0.15 dBm 908.437628205 MHz

1 R VBW

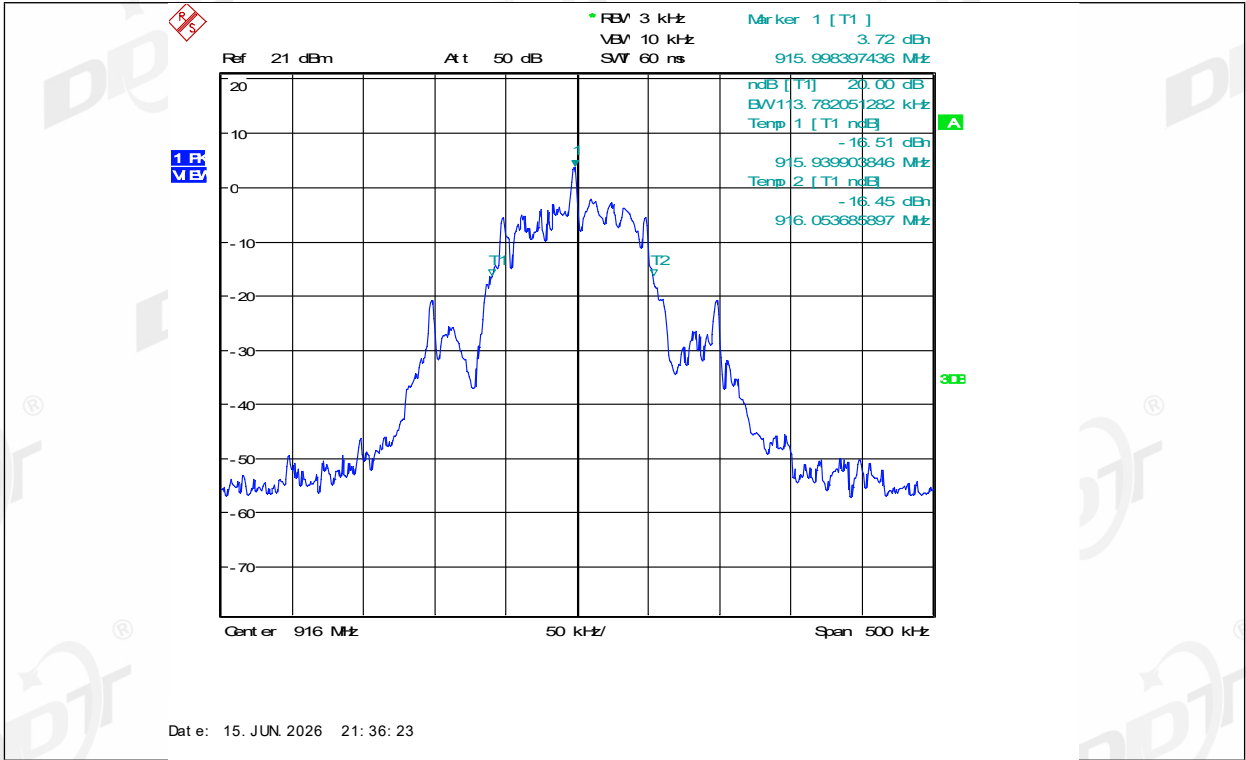
ndB [T1] 20.00 dB
BW 88.910256410 kHz
Temp 1 [T1] ndB -20.64 dBm
908.383141026 MHz
Temp 2 [T1] ndB -20.13 dBm
908.452051282 MHz

3dB

Center 908.42 MHz 50 kHz/ Span 500 kHz

Date: 15. JUN 2026 22:07:05

20 dB bandwidth_916.00 MHz



6. Antenna Requirements

6.1. Limit

For intentional device, according to FCC 47 CFR 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.

6.2. Result

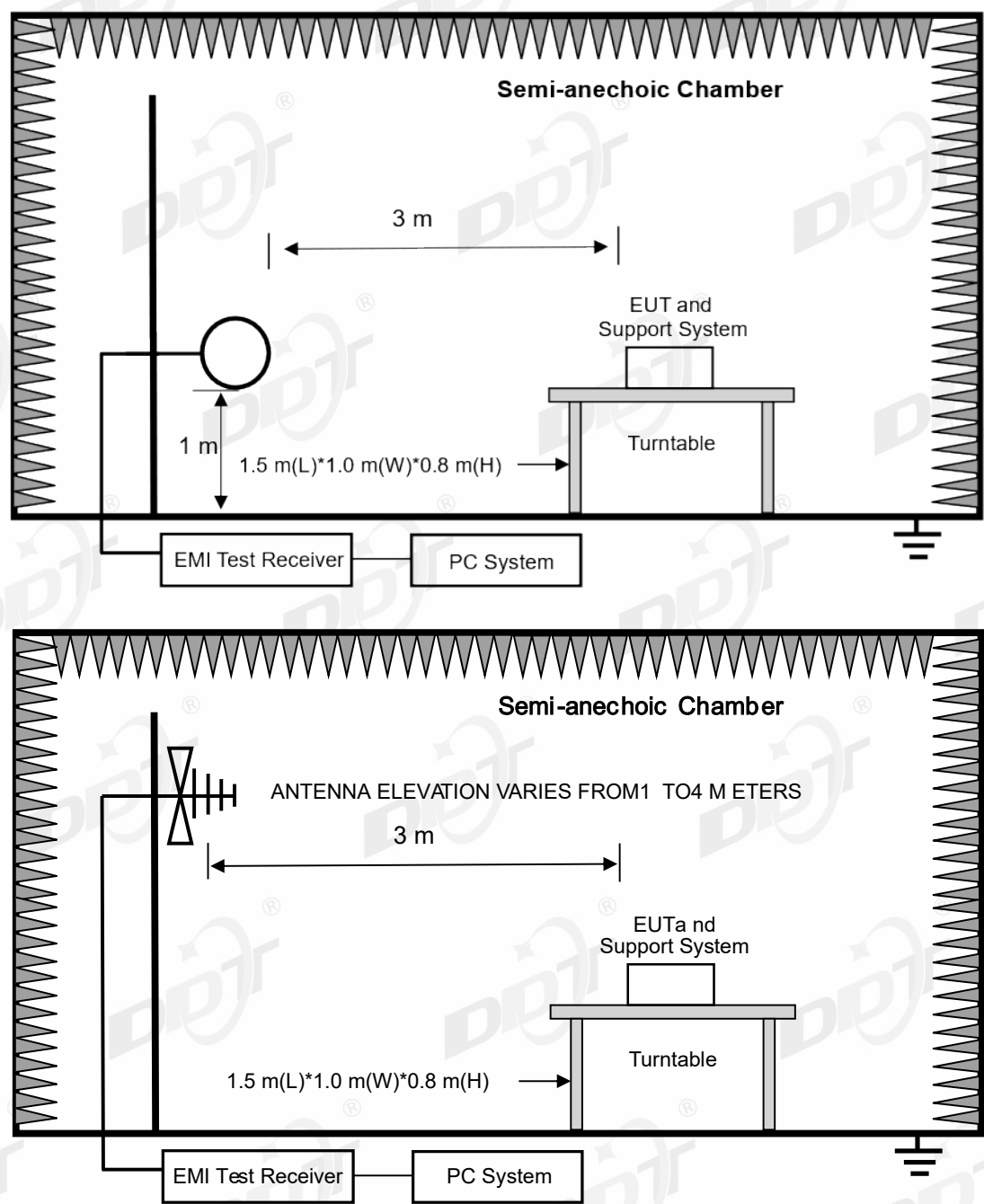
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

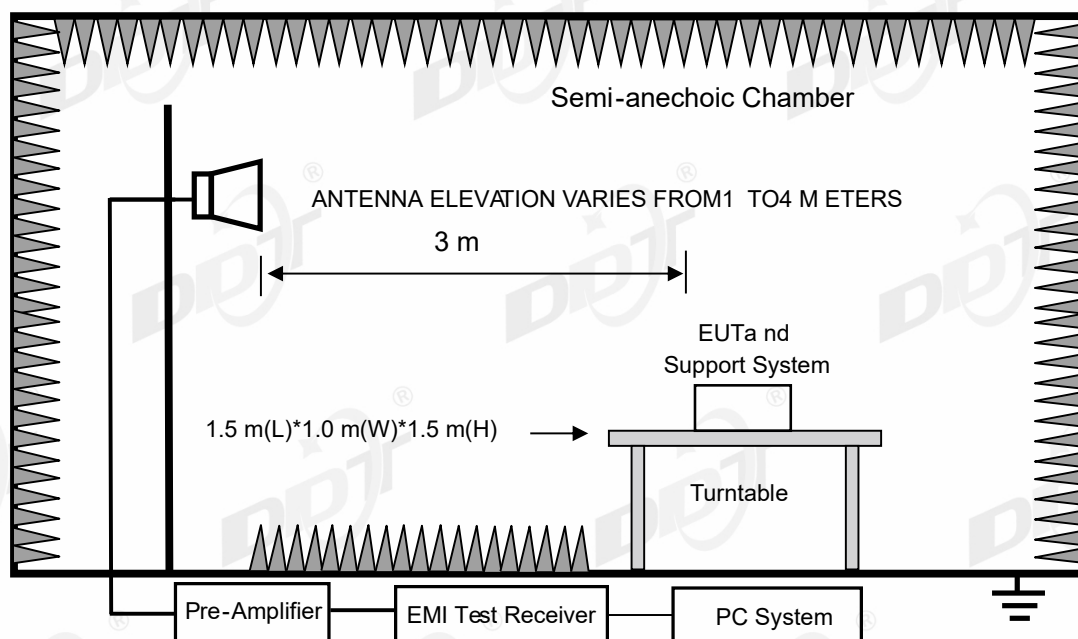
7. Radiated Emission

7.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC05922	2027/01/06
Broadband Preamplifier	HPX	BP-01G-18G	DDT-ZC05923	2027/01/06
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Signal & Spectrum analyzer	R&S	FSV40-N	DDT-ZC04979	2026/07/04
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2026/07/06
RF Cable	Tonscend	7+1+1+0.5+0.5m	DDT-ZC05978	2027/01/29
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS-RE&RSE (V5.0.0)	DDT-ZC06466	/

7.2. Block diagram of test setup





7.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.G
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		uV/m	dB(uV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
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	74.0 dB(uV)/m (Peak)	
		54.0 dB(uV)/m (Average)	
Field Strength of Fundamental emission for 902 MHz - 928 MHz	3	114.0 dB(uV)/m (Peak)	
		94.0 dB(uV)/m (Average)	
Field Strength of Harmonics	3	74.0 dB(μV)/m (Peak)	
		54.0 dB(μV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{300m}(\text{dBuV/m}) + 40\text{Log}(300m/3m) = \text{Limit}_{300m}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3m}(\text{dBuV/m}) = \text{Limit}_{30m}(\text{dBuV/m}) + 40\text{Log}(30m/3m) = \text{Limit}_{30m}(\text{dBuV/m}) + 40$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions include fundamental emission shall not exceed FCC 15.249 limit of comply with FCC 15.209 limit which permit higher emission level.

7.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

7.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

(7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported

7.6. Test result

PASS. (See below detailed test result)

7.7. Test data

TR-4-E-009 Radiated Emission Test Result

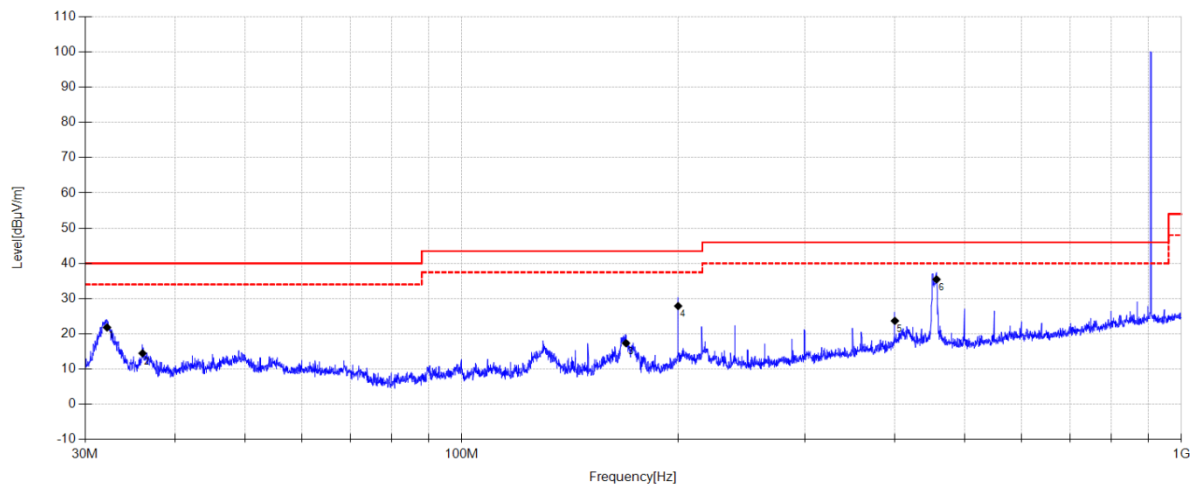
Test Date: 2026-06-02 **Tested By:** Li Xiongbín

Test Mode: 908.40MHz TX Mode **Power Supply:** AC 120V/60Hz

Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\4

Memo: Sample Number:S26042804-002 Power Setting:100



Final Data List

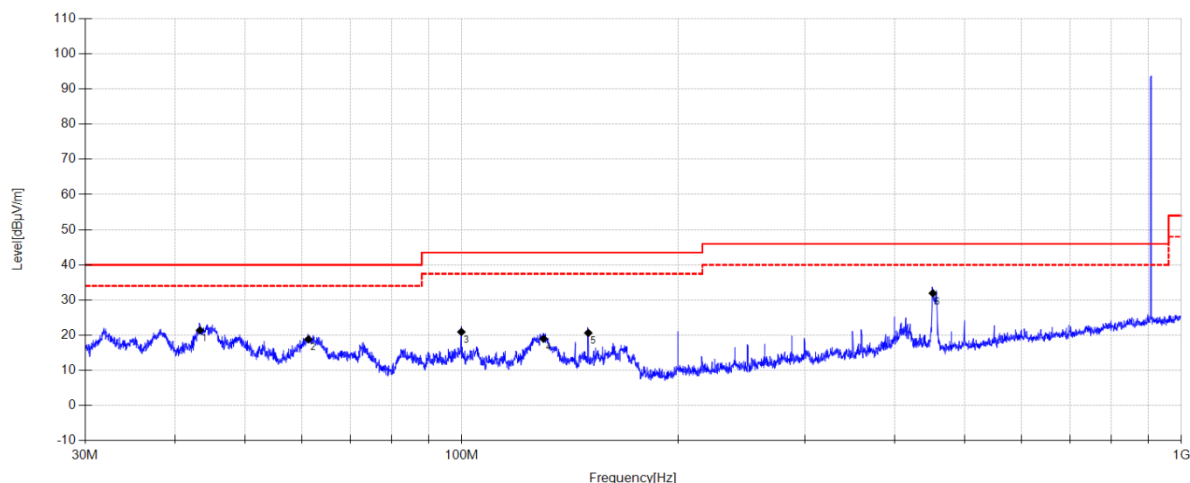
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.156	39.41	10.90	3.81	21.82	40.00	18.18	QP	Horizontal
2	36.025	31.03	11.91	3.86	14.50	40.00	25.50	QP	Horizontal
3	169.184	35.62	9.40	4.70	17.35	43.50	26.15	QP	Horizontal
4	199.910	44.16	11.25	4.88	27.89	43.50	15.61	QP	Horizontal
5	399.944	34.99	15.49	5.71	23.69	46.00	22.31	QP	Horizontal
6	456.938	45.97	16.14	5.90	35.45	46.00	10.55	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongb
Test Mode: 908.40MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\5
Memo: Sample Number:S26042804-002 Power Setting:100



Final Data List

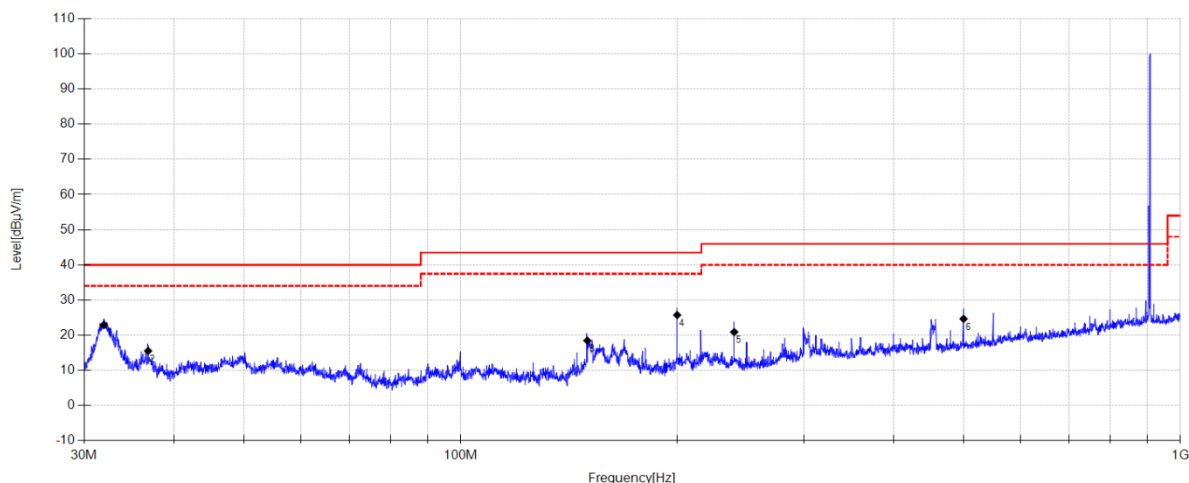
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	43.289	36.15	13.61	3.94	21.40	40.00	18.60	QP	Vertical
2	61.252	34.62	12.45	4.07	18.84	40.00	21.16	QP	Vertical
3	99.924	36.99	11.95	4.30	20.94	43.50	22.56	QP	Vertical
4	129.976	37.67	9.19	4.47	19.00	43.50	24.50	QP	Vertical
5	149.963	40.59	7.83	4.59	20.66	43.50	22.84	QP	Vertical
6	451.523	42.51	16.10	5.88	31.94	46.00	14.06	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 908.42MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\6
Memo: Sample Number:S26042804-002 Power Setting:100

**Final Data List**

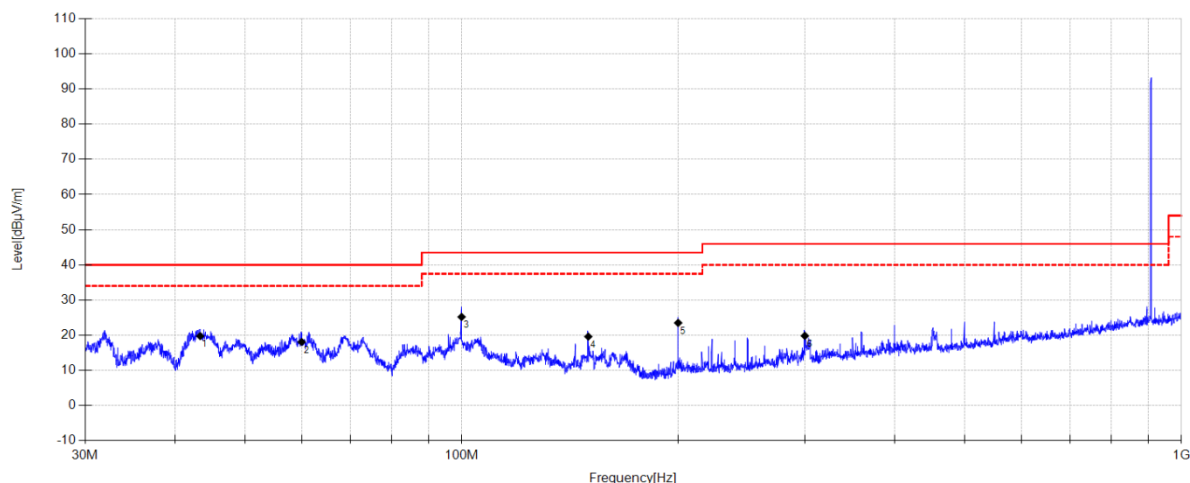
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	31.932	40.54	10.86	3.81	22.91	40.00	17.09	QP	Horizontal
2	36.790	31.83	12.14	3.88	15.55	40.00	24.45	QP	Horizontal
3	149.963	38.42	7.83	4.59	18.49	43.50	25.01	QP	Horizontal
4	199.910	42.01	11.25	4.88	25.74	43.50	17.76	QP	Horizontal
5	239.888	35.79	12.48	5.04	20.91	46.00	25.09	QP	Horizontal
6	499.844	33.93	17.28	6.04	24.65	46.00	21.35	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbín
Test Mode: 908.42MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\7
Memo: Sample Number:S26042804-002 Power Setting:100

**Final Data List**

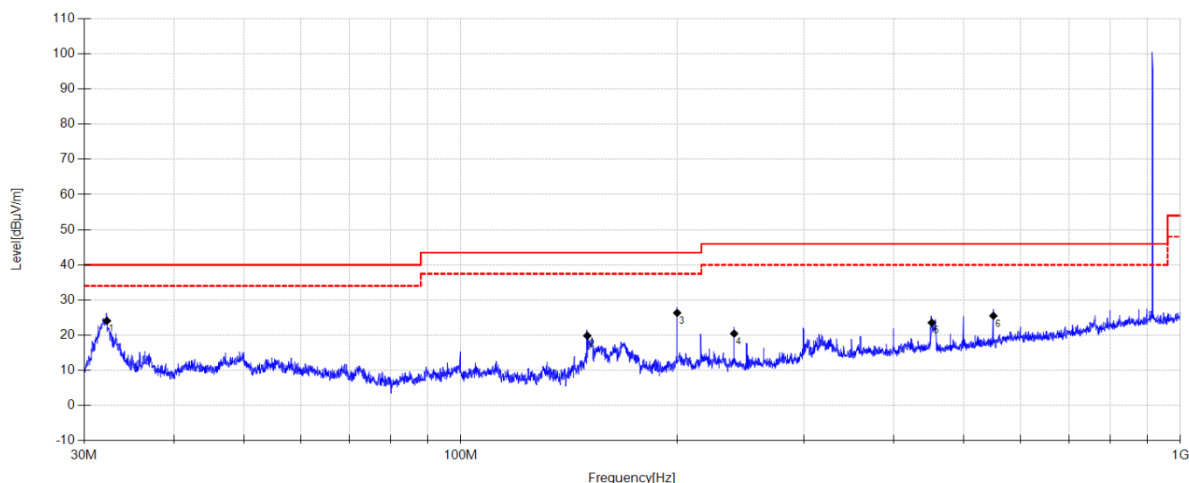
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	43.320	34.53	13.60	3.94	19.77	40.00	20.23	QP	Vertical
2	59.935	33.95	12.39	4.06	18.10	40.00	21.90	QP	Vertical
3	99.994	41.21	12.00	4.30	25.21	43.50	18.29	QP	Vertical
4	149.963	39.55	7.83	4.59	19.62	43.50	23.88	QP	Vertical
5	199.910	39.79	11.25	4.88	23.52	43.50	19.98	QP	Vertical
6	299.808	33.36	13.59	5.28	19.83	46.00	26.17	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 916MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\8
Memo: Sample Number:S26042804-002 Power Setting:100

**Final Data List**

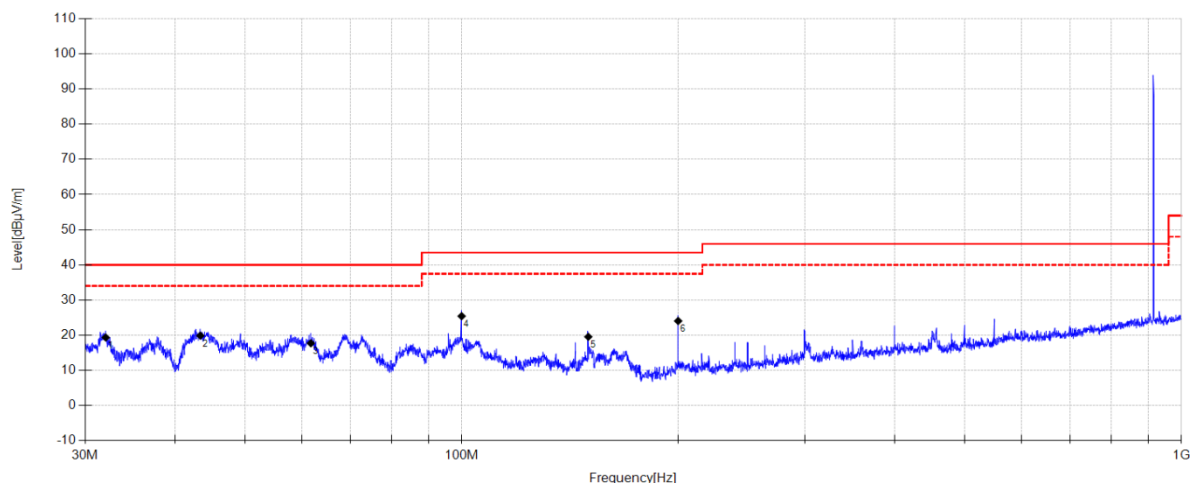
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.247	41.7	10.90	3.81	24.11	40.00	15.89	QP	Horizontal
2	149.963	39.79	7.83	4.59	19.86	43.50	23.64	QP	Horizontal
3	199.910	42.63	11.25	4.88	26.36	43.50	17.14	QP	Horizontal
4	239.888	35.36	12.48	5.04	20.48	46.00	25.52	QP	Horizontal
5	451.523	34.14	16.10	5.88	23.57	46.00	22.43	QP	Horizontal
6	549.856	34.34	17.68	6.22	25.52	46.00	20.48	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 916MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\9
Memo: Sample Number:S26042804-002 Power Setting:100



Final Data List

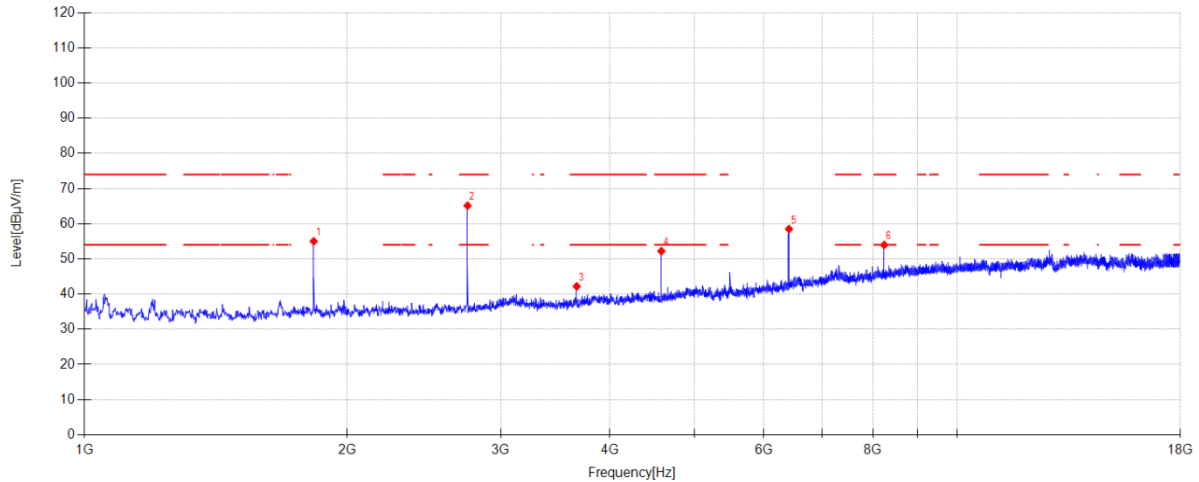
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.021	36.95	10.90	3.81	19.36	40.00	20.64	QP	Vertical
2	43.350	34.66	13.59	3.94	19.89	40.00	20.11	QP	Vertical
3	61.726	33.4	12.55	4.08	17.73	40.00	22.27	QP	Vertical
4	99.994	41.43	12.00	4.30	25.43	43.50	18.07	QP	Vertical
5	149.963	39.49	7.83	4.59	19.56	43.50	23.94	QP	Vertical
6	199.910	40.33	11.25	4.88	24.06	43.50	19.44	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 916MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1E\FCC ABOVE 1G SRD\25
Memo: Sample Number:S26042808-002 Power Setting:100



Suspected Data List

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1831.300	70.61	25.86	-41.47	55.00	-	-	PK	Horizontal
2	2747.600	77.24	28.90	-41.01	65.13	74.00	8.87	PK	Horizontal
3	3663.900	52.45	30.56	-40.82	42.19	74.00	31.81	PK	Horizontal
4	4580.200	60.78	32.36	-40.93	52.21	74.00	21.79	PK	Horizontal
5	6412.800	62.93	35.58	-40.03	58.48	-	-	PK	Horizontal
6	8243.700	54.43	37.90	-38.36	53.97	74.00	20.03	PK	Horizontal

Suspected Data List

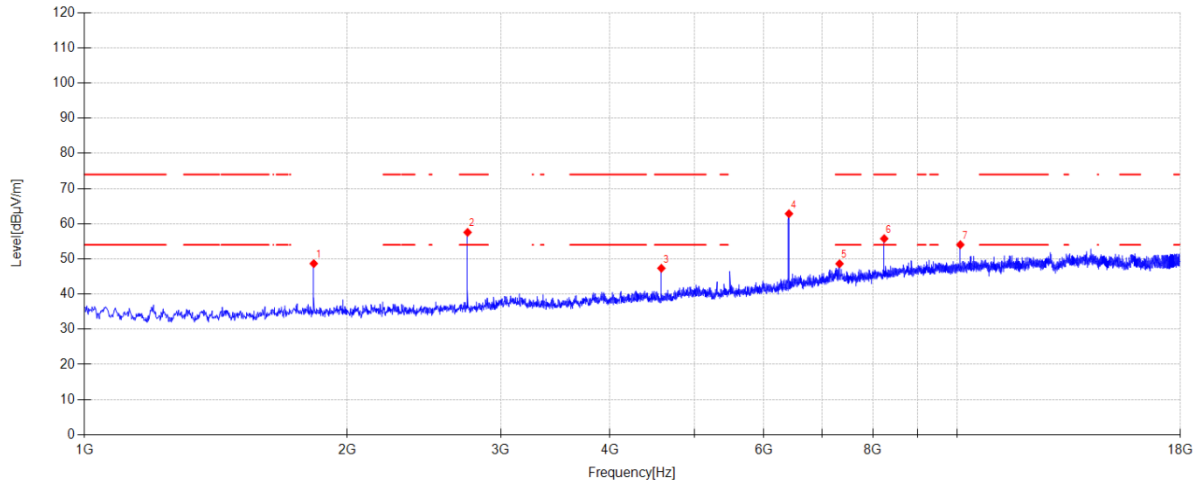
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2747.600	/	/	/	38.17	54	15.83	AV	Horizontal
3	3663.900	/	/	/	15.23	54	38.77	AV	Horizontal
4	4580.200	/	/	/	25.25	54	28.75	AV	Horizontal
6	8243.700	/	/	/	27.01	54	26.99	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. $PK-20\log(\Delta)$ Factor[dB]=AV

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 916MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1E\FCC ABOVE 1G SRD\26
Memo: Sample Number:S26042808-002 Power Setting:100

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1831.300	64.27	25.86	-41.47	48.66	-	-	PK	Vertical
2	2747.600	69.66	28.90	-41.01	57.55	74.00	16.45	PK	Vertical
3	4580.200	55.91	32.36	-40.93	47.34	74.00	26.66	PK	Vertical
4	6412.800	67.29	35.58	-40.03	62.84	-	-	PK	Vertical
5	7327.400	50.08	37.54	-39.00	48.62	74.00	25.38	PK	Vertical
6	8243.700	56.21	37.90	-38.36	55.75	74.00	18.25	PK	Vertical
7	10076.300	50.32	39.45	-35.73	54.04	-	-	PK	Vertical

Suspected Data List

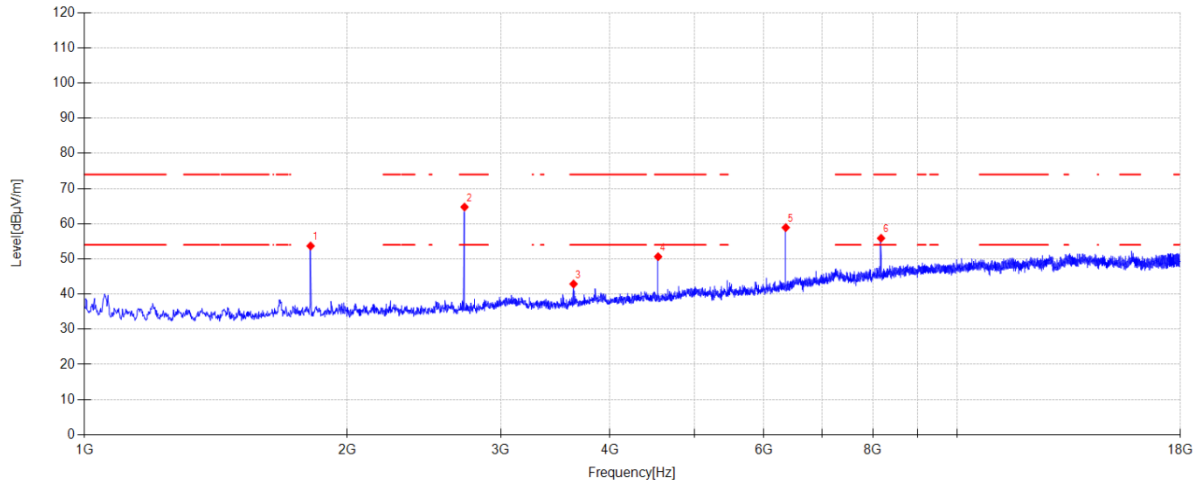
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2747.600	-	-	-	30.59	54	23.41	AV	Vertical
3	4580.200	-	-	-	20.38	54	33.62	AV	Vertical
5	7327.400	-	-	-	21.66	54	32.34	AV	Vertical
6	8243.700	-	-	-	28.79	54	25.21	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. PK-20log(Δ) Factor[dB]=AV

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 908.4MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1E\FCC ABOVE 1G SRD\27
Memo: Sample Number:S26042808-002 Power Setting:100

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1816.000	69.22	25.83	-41.38	53.67	-	-	PK	Horizontal
2	2725.500	76.80	28.95	-41.01	64.74	74.00	9.26	PK	Horizontal
3	3633.300	53.20	30.47	-40.80	42.87	74.00	31.13	PK	Horizontal
4	4541.100	59.19	32.30	-40.86	50.63	74.00	23.37	PK	Horizontal
5	6358.400	63.55	35.33	-39.98	58.90	-	-	PK	Horizontal
6	8175.700	56.39	37.90	-38.42	55.87	74.00	18.13	PK	Horizontal

Suspected Data List

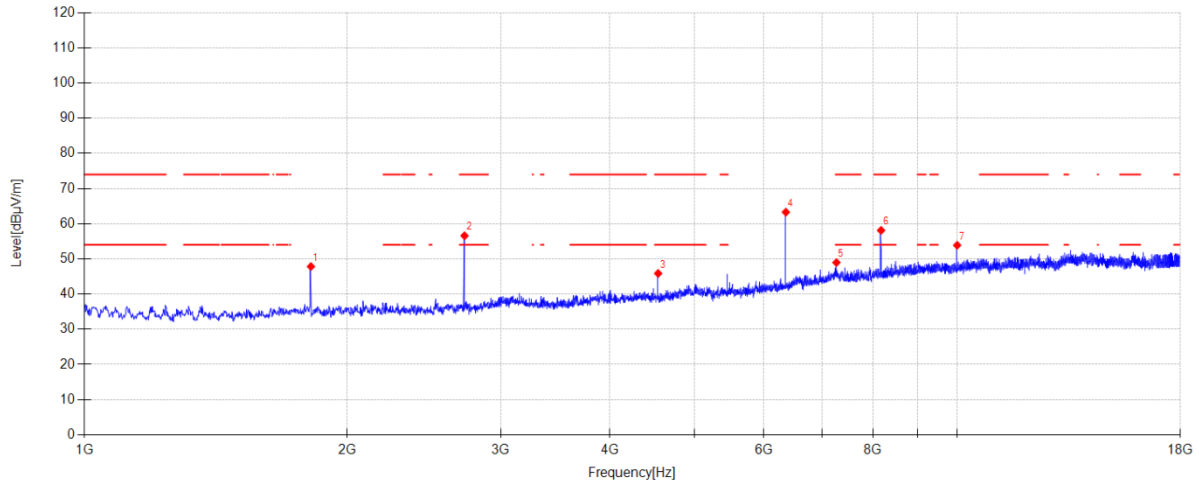
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2725.500	/	/	/	38.94	54.00	15.06	AV	Horizontal
3	3633.300	/	/	/	17.07	54.00	36.93	AV	Horizontal
4	4541.100	/	/	/	24.83	54.00	29.17	AV	Horizontal
6	8175.700	/	/	/	30.07	54.00	23.93	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. PK-20log(Δ) Factor[dB]=AV

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 908.4MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1\FCC ABOVE 1G SRD\28
Memo: Sample Number:S26042808-002 Power Setting:100

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1817.700	63.38	25.84	-41.39	47.83	-	-	PK	Vertical
2	2725.500	68.64	28.95	-41.01	56.58	74.00	17.42	PK	Vertical
3	4541.100	54.43	32.30	-40.86	45.87	74.00	28.13	PK	Vertical
4	6360.100	67.93	35.34	-39.98	63.29	-	-	PK	Vertical
5	7267.900	50.37	37.76	-39.17	48.96	74.00	25.04	PK	Vertical
6	8175.700	58.63	37.90	-38.42	58.11	74.00	15.89	PK	Vertical
7	9993.000	50.36	39.29	-35.77	53.88	-	-	PK	Vertical

Suspected Data List

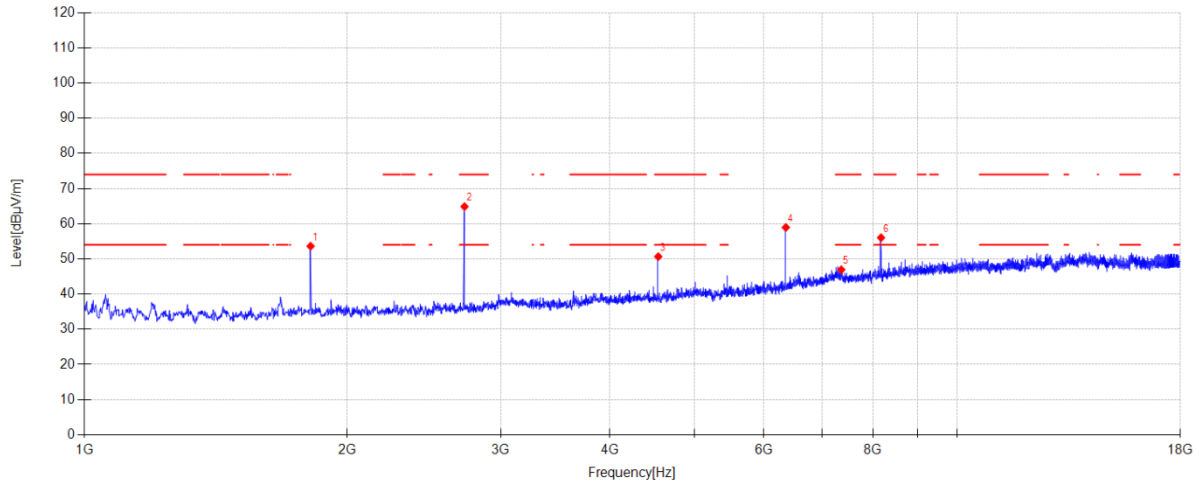
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2725.500	/	/	/	30.78	54.00	23.22	AV	Vertical
3	4541.100	/	/	/	20.07	54.00	33.93	AV	Vertical
5	7267.900	/	/	/	23.16	54.00	30.84	AV	Vertical
6	8175.700	/	/	/	32.31	54.00	21.69	AV	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. PK-20log(Δ) Factor[dB]=AV

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 908.42MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1E\FCC ABOVE 1G SRD\29
Memo: Sample Number:S26042808-002 Power Setting:100

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1816.000	69.17	25.83	-41.38	53.62	-	-	PK	Horizontal
2	2725.500	76.93	28.95	-41.01	64.87	74.00	9.13	PK	Horizontal
3	4542.800	59.22	32.30	-40.86	50.66	74.00	23.34	PK	Horizontal
4	6360.100	63.58	35.34	-39.98	58.94	-	-	PK	Horizontal
5	7361.400	48.56	37.35	-38.98	46.93	74.00	27.07	PK	Horizontal
6	8175.700	56.55	37.90	-38.42	56.03	74.00	17.97	PK	Horizontal

Suspected Data List

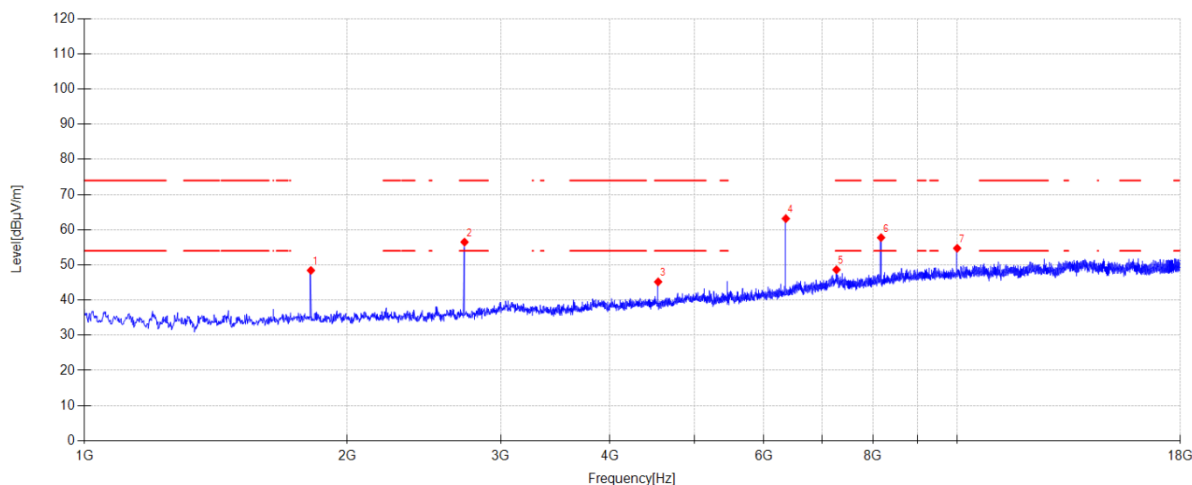
NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2725.500	-	-	-	51.64	54.00	2.36	AV	Horizontal
3	4542.800	-	-	-	37.43	54.00	16.57	AV	Horizontal
5	7361.400	-	-	-	33.70	54.00	20.3	AV	Horizontal
6	8175.700	-	-	-	42.80	54.00	11.2	AV	Horizontal

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. PK-20log(Δ) Factor[dB]=AV

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-15 **Tested By:** Cao Jie
Test Mode: TX US 908.42MHz Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:44.8% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 report date\Q26042808-1E\FCC ABOVE 1G SRD\30
Memo: Sample Number:S26042808-002 Power Setting:100

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1817.700	63.98	25.84	-41.39	48.43	-	-	PK	Vertical
2	2725.500	68.55	28.95	-41.01	56.49	74.00	17.51	PK	Vertical
3	4541.100	53.74	32.30	-40.86	45.18	74.00	28.82	PK	Vertical
4	6360.100	67.80	35.34	-39.98	63.16	-	-	PK	Vertical
5	7267.900	50.03	37.76	-39.17	48.62	74.00	25.38	PK	Vertical
6	8175.700	58.27	37.90	-38.42	57.75	74.00	16.25	PK	Vertical
7	9993.000	51.21	39.29	-35.77	54.73	-	-	PK	Vertical

Suspected Data List

NO	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
2	2725.500	/	/	/	43.26	54	10.74	AV	Vertical
3	4541.100	/	/	/	31.95	54	22.05	AV	Vertical
5	7267.900	/	/	/	35.39	54	18.61	AV	Vertical
6	8175.700	/	/	/	44.52	54	9.48	AV	Vertical

Note:

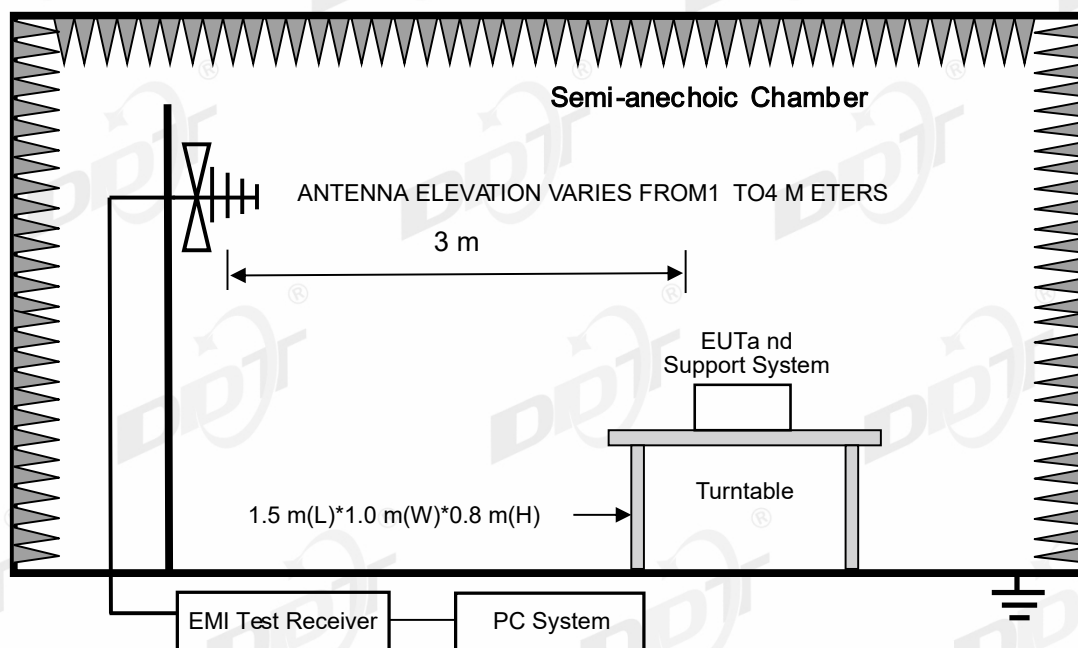
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. PK-20log(Δ) Factor[dB]=AV

8. Field Strength Of The Fundamental Signal

8.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10

8.2. Block diagram of test setup



8.3. Limits

(3) FCC 15.249 limit

Fundamental Frequency (MHz)	Field Strength of Fundamental
902-928	AV: 94 dBuV/m @3m PK: 114 dBuV/m @3m

8.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

8.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
30MHz-1GHz	Trilog Broadband Antenna	3m

The Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2020 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and

above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

- (6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
30MHz-1GHz	120kHz

- (7) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

8.6. Test result

Field Strength of the Fundamental Signal

Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
908.40	103.19	22.10	7.13	-31.85	100.57	114	13.43	PK	Horizontal
908.40	\	\	\	\	74.77	94	19.23	AV	Horizontal
908.40	97.53	22.10	7.13	-31.85	94.91	114	19.09	PK	Vertical
908.40	\	\	\	\	69.11	94	24.89	AV	Vertical
908.42	103.28	22.10	7.13	-31.85	100.66	114	13.34	PK	Horizontal
908.42	\	\	\	\	87.43	94	6.57	AV	Horizontal
908.42	97.25	22.10	7.13	-31.85	94.63	114	19.37	PK	Vertical
908.42	\	\	\	\	81.4	94	12.6	AV	Vertical
916.00	103.48	21.76	7.15	-31.80	100.59	114	13.41	PK	Horizontal
916.00	\	\	\	\	73.63	94	20.37	AV	Horizontal
916.00	96.84	21.76	7.15	-31.80	93.95	114	20.05	PK	Vertical
916.00	\	\	\	\	66.99	94	27.01	AV	Vertical

8.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-06-02

Tested By:

Li Xiongbin

Test Mode:

908.40MHz TX Mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:22.1°C;Humi:57.3%

Test Site:

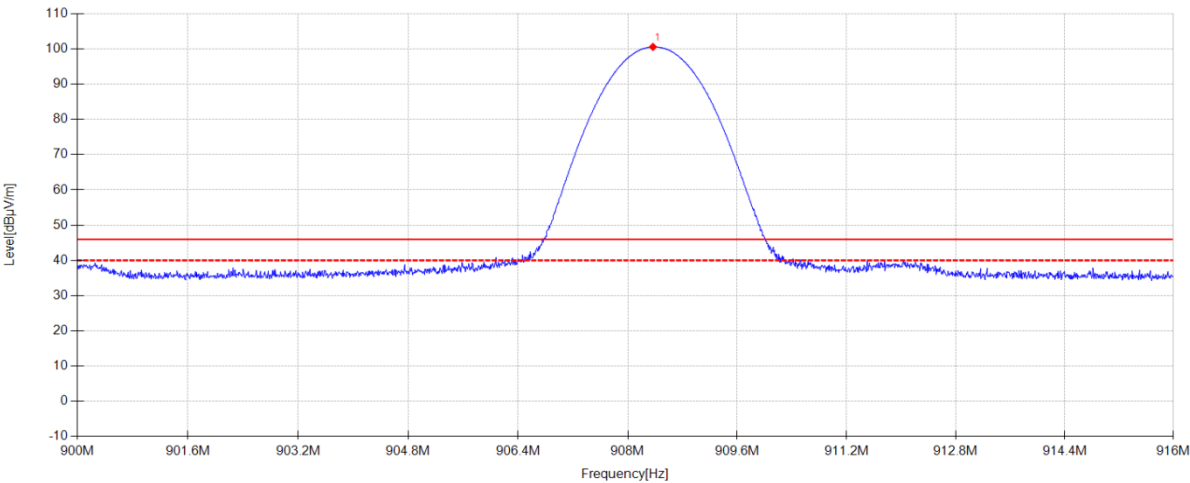
DDT 3# Chamber

File Path:

d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\14

Memo:

Sample Number:S26042804-002 Power Setting:100



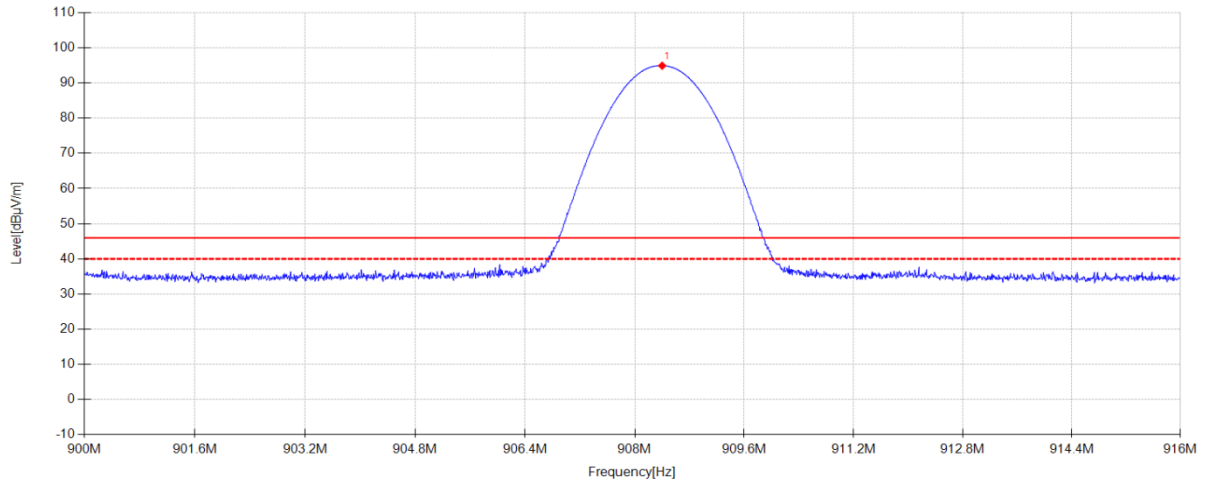
Suspected Data List										
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	908.40	103.19	22.10	7.13	-31.85	100.57	114	13.43	PK	Horizontal
1	908.40	\	\	\	\	74.77	94	19.23	AV	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbín
Test Mode: 908.40MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\15
Memo: Sample Number:S26042804-002 Power Setting:100

**Suspected Data List**

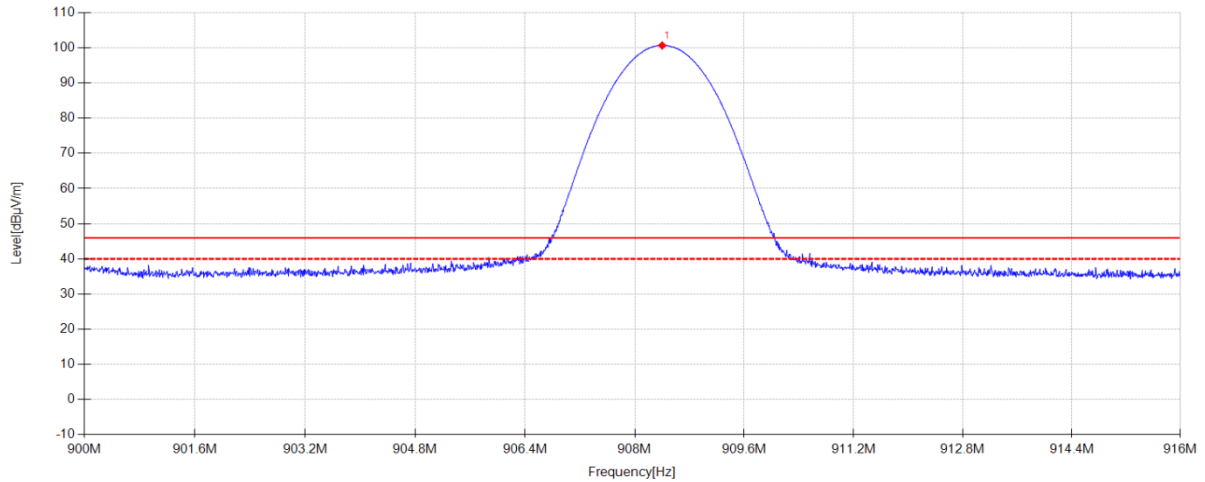
N O.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	908.40	97.53	22.10	7.13	-31.85	94.91	114	19.09	PK	Vertical
1	908.40	\	\	\	\	69.11	94	24.89	AV	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 908.42MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\10
Memo: Sample Number:S26042804-002 Power Setting:100

**Suspected Data List**

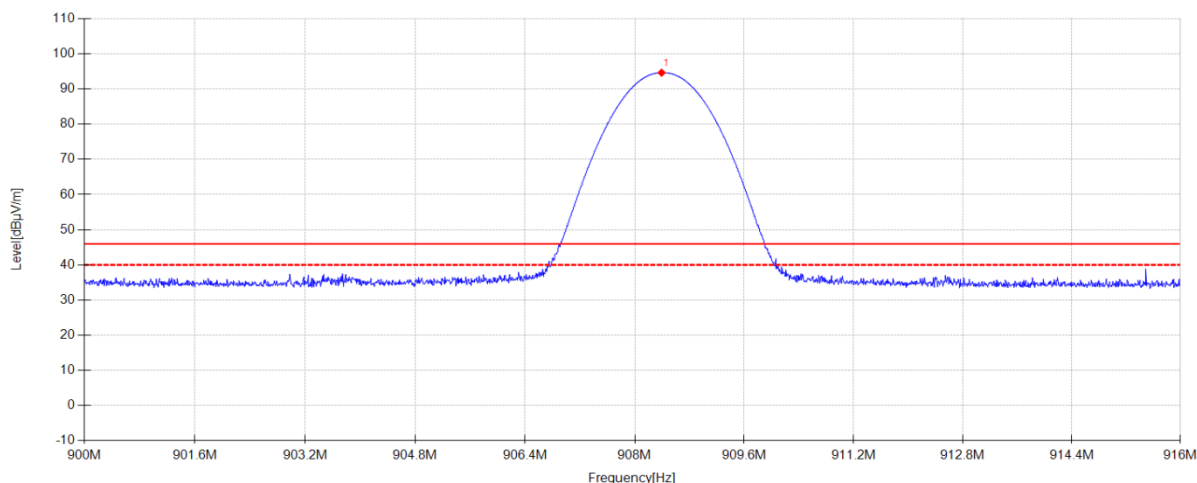
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	908.42	103.28	22.10	7.13	-31.85	100.66	114	13.34	PK	Horizontal
1	908.42	\	\	\	\	87.43	94	6.57	AV	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 908.42MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\11
Memo: Sample Number:S26042804-002 Power Setting:100

**Suspected Data List**

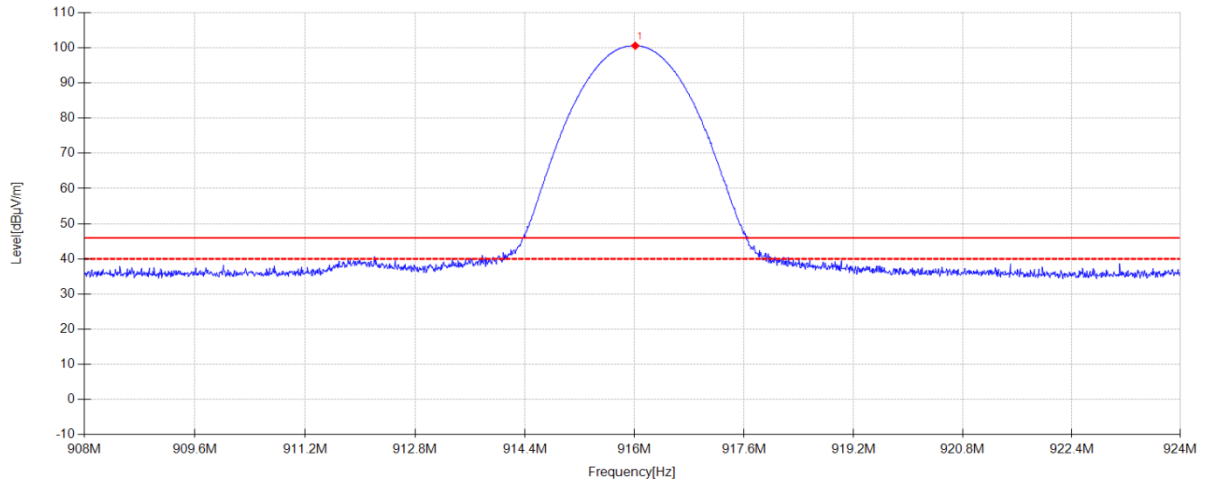
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	908.42	97.25	22.10	7.13	-31.85	94.63	114	19.37	PK	Vertical
1	908.42	\	\	\	\	81.4	94	12.6	AV	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 916MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\12
Memo: Sample Number:S26042804-002 Power Setting:100

**Suspected Data List**

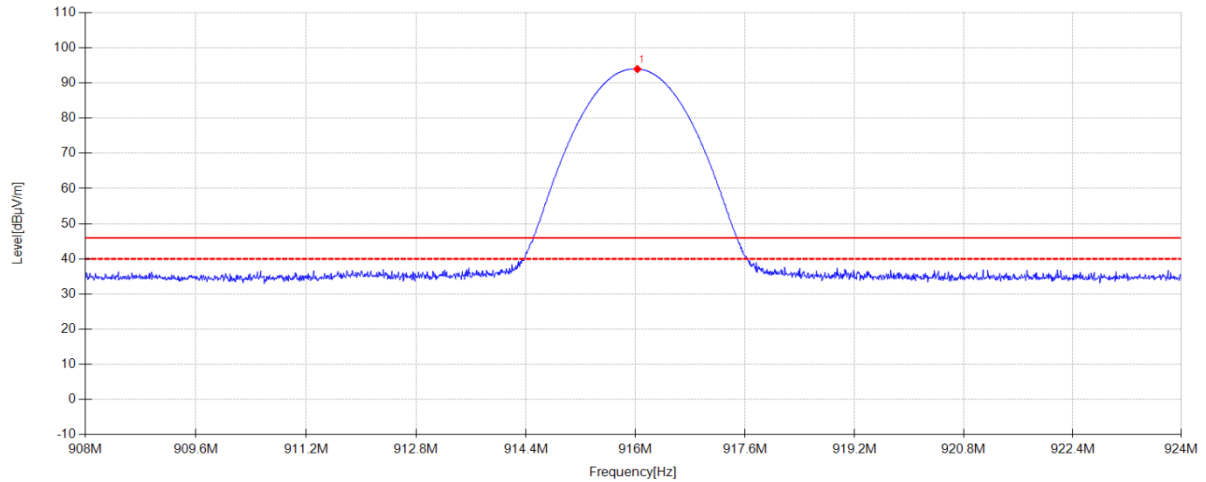
NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	916	103.48	21.76	7.15	-31.80	100.59	114	13.41	PK	Horizontal
1	916	\	\	\	\	73.63	94	20.37	AV	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-06-02 **Tested By:** Li Xiongbin
Test Mode: 916MHz TX Mode **Power Supply:** AC 120V/60Hz
Condition: Temp:22.1°C;Humi:57.3% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26042808-1E\FCC Below 1G 900M\13
Memo: Sample Number:S26042804-002 Power Setting:100

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	916	96.84	21.76	7.15	-31.80	93.95	114	20.05	PK	Vertical
1	916	\	\	\	\	66.99	94	27.01	AV	Vertical

Note:

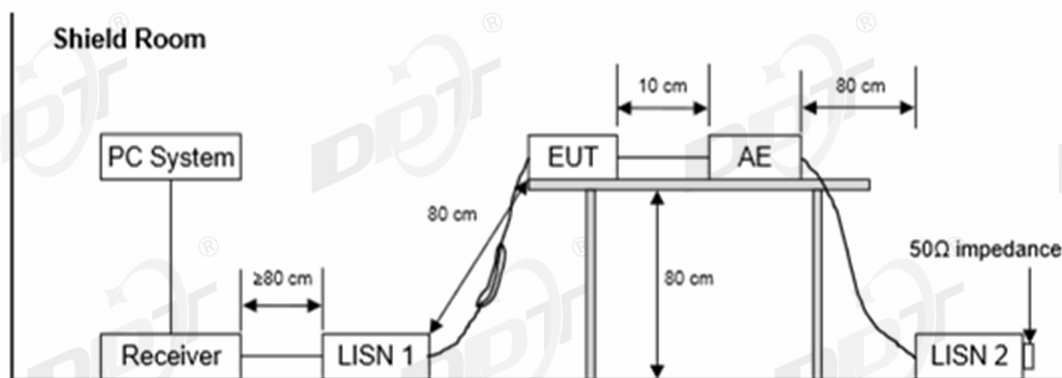
1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

9. Power Line Conducted Emissions

9.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI 3	DDT-ZC00235	2027/06/10
Two Line V-Network	R&S	ENV216	DDT-ZC00535	2027/06/14
Pulse Limiter	SCHWARZBEC K	ESH3-Z2	DDT-ZC00539	2027/06/10
CE Cable 1	R&S	ESU8/RF2	DDT-ZC00566	2027/06/21
Conducted & Radiated Software	Audix	e3	DDT-ZC00562	/
Two-line V-shaped artificial network	ROHDE&SCHW ARZ	ENV216	DDT-ZC05693	2026/11/04

9.2. Block diagram of test setup



9.3. Limits

Frequency	Quasi-Peak Level dB(uV)	Average Level dB(uV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

9.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

9.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

9.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

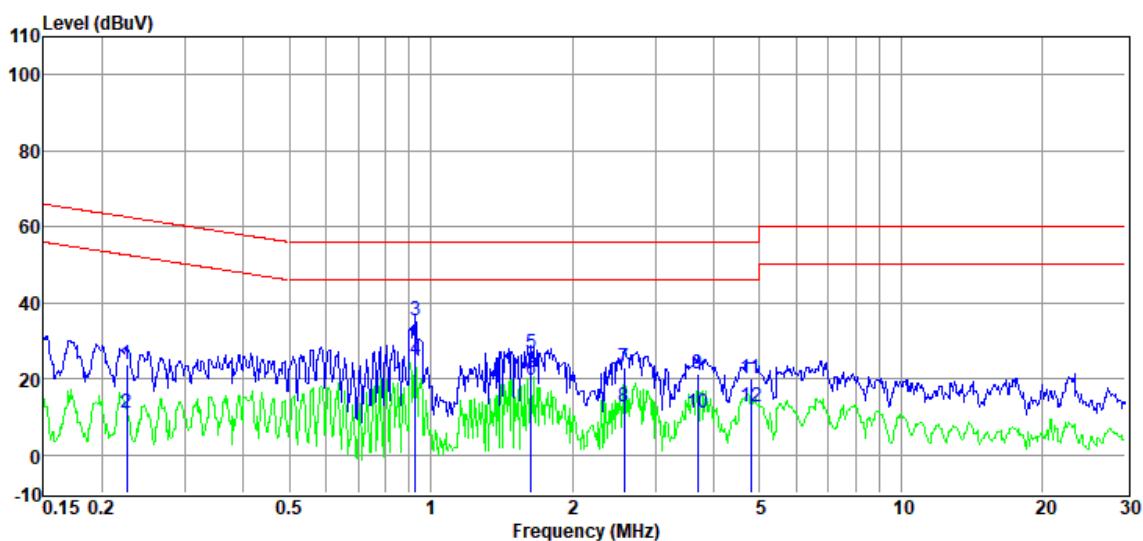
Note2: “----” means Peak detection; “-----” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

9.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2026 CE Report Data\Q26042808\Q26042808.EM6**
Test Date : 2026-06-17 **Tested By** : Li guilin
Power Supply : AC 120V/60Hz **Test Mode** : SRD mode
Condition : TEMP:23.7°C, RH:63.7% **LISN** : 2025 1# 216/LINE
Memo : S26042808-001



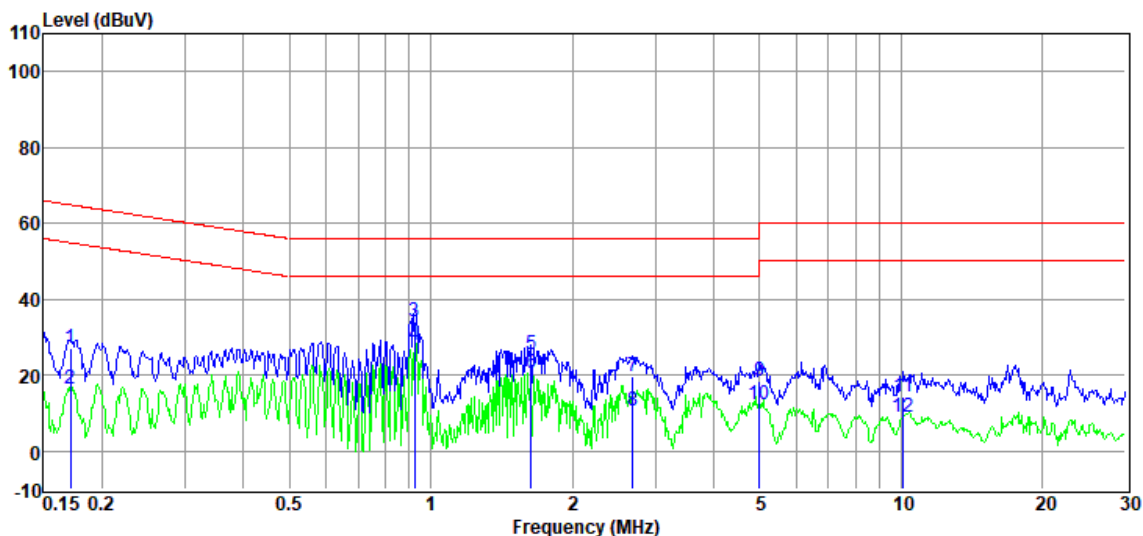
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBμV)	Limit Line (dBμV)	Margin (dB)	Detector	Phase
1	0.23	3.97	9.82	0.06	9.89	23.74	62.61	38.87	QP	LINE
2	0.23	-8.55	9.82	0.06	9.89	11.22	52.61	41.39	Average	LINE
3	0.93	15.60	9.89	0.14	9.90	35.53	56.00	20.47	QP	LINE
4	0.93	5.25	9.89	0.14	9.90	25.18	46.00	20.82	Average	LINE
5	1.64	6.97	9.84	0.16	9.89	26.86	56.00	29.14	QP	LINE
6	1.64	-0.28	9.84	0.16	9.89	19.61	46.00	26.39	Average	LINE
7	2.58	3.23	9.87	0.17	9.88	23.15	56.00	32.85	QP	LINE
8	2.58	-7.15	9.87	0.17	9.88	12.77	46.00	33.23	Average	LINE
9	3.70	1.37	9.98	0.18	9.87	21.40	56.00	34.60	QP	LINE
10	3.70	-8.95	9.98	0.18	9.87	11.08	46.00	34.92	Average	LINE
11	4.80	0.01	9.97	0.19	9.86	20.03	56.00	35.97	QP	LINE
12	4.80	-7.14	9.97	0.19	9.86	12.88	46.00	33.12	Average	LINE

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2026 CE Report Data\Q26042808\Q26042808.EM6**
Test Date : 2026-06-17 **Tested By** : Li guilin
Power Supply : AC 120V/60Hz **Test Mode** : SRD mode
Condition : TEMP:23.7°C, RH:63.7% **LISN** : 2025 1# 216/NEUTRAL
Memo : S26042808-001



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Margin	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.17	7.67	9.69	0.05	9.89	27.30	64.90	37.60	QP	NEUTRAL
2	0.17	-3.06	9.69	0.05	9.89	16.57	54.90	38.33	Average	NEUTRAL
3	0.92	14.07	9.89	0.14	9.90	34.00	56.00	22.00	QP	NEUTRAL
4	0.92	7.81	9.89	0.14	9.90	27.74	46.00	18.26	Average	NEUTRAL
5	1.64	5.73	9.81	0.16	9.89	25.59	56.00	30.41	QP	NEUTRAL
6	1.64	0.55	9.81	0.16	9.89	20.41	46.00	25.59	Average	NEUTRAL
7	2.69	-0.27	9.81	0.17	9.88	19.59	56.00	36.41	QP	NEUTRAL
8	2.69	-9.24	9.81	0.17	9.88	10.62	46.00	35.38	Average	NEUTRAL
9	5.01	-1.60	9.87	0.19	9.86	18.32	60.00	41.68	QP	NEUTRAL
10	5.01	-7.66	9.87	0.19	9.86	12.26	50.00	37.74	Average	NEUTRAL
11	10.13	-5.94	10.18	0.26	9.83	14.33	60.00	45.67	QP	NEUTRAL
12	10.13	-11.16	10.18	0.26	9.83	9.11	50.00	40.89	Average	NEUTRAL

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

11. Photos of the EUT

Please refer to DDT-Q26042808-2E appendix I

-----End Report-----