

10. Antenna Requirements

10.1. 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2. 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.

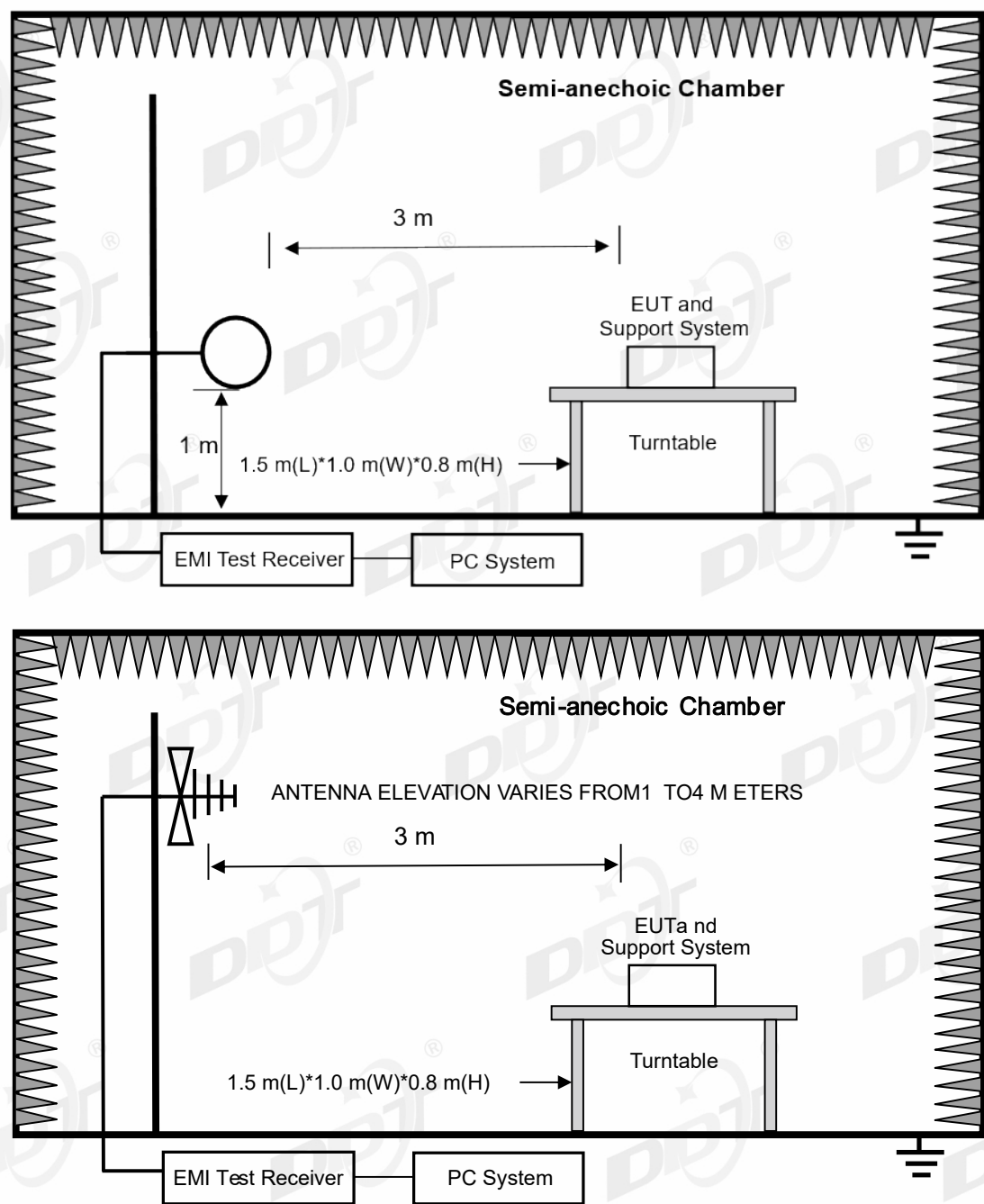
11. Radiated Emission

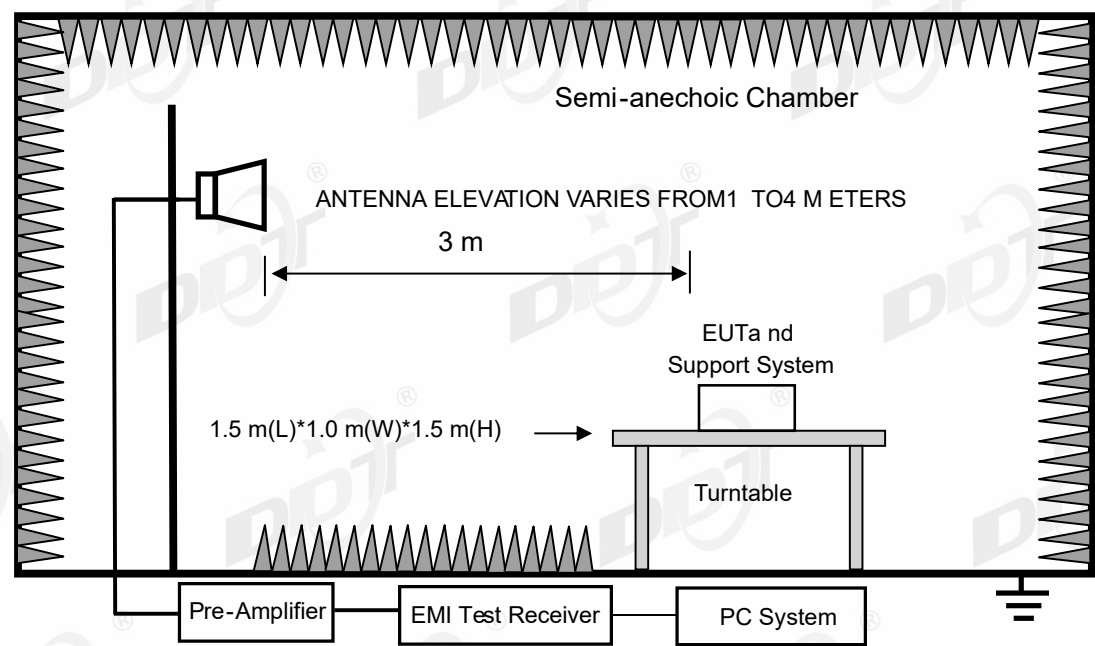
11.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2027/02/27
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-10M	DDT-ZC05591	2026/10/10
RF cable	Zhongke Junchuang	Z805UF-NJ-NJ-3M	DDT-ZC05590	2026/10/10
RF cable	Zhongke Junchuang	JCTB510-NJW-NJW-0.6M	DDT-ZC04595	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-1M	DDT-ZC03802	2026/10/10
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10
RF cable	Zhongke Junchuang	JCT40P-2.92J-2.92J-5M	DDT-ZC03800	2026/10/10
Radiation disturbance fully automated test software	Tonscend	JS32-RE (V5.0.0)	DDT-ZC02739	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2027/06/25
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2027/03/05
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2027/07/08
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2027/02/27
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2027/02/27
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2027/02/27
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/03/04
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2027/07/10
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2027/07/10
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2027/07/10
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2027/02/27
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBEC K	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	2027/07/10
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2027/06/25
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	/

11.2. Block diagram of test setup





11.3. 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	23.6-24.0
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			

1Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2Above 38.6

(2) FCC 15.209 Limit

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
		uV/m	dBuV/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 dBuV/m(Peak)	
		54.0 dBuV/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 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

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

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

11.4. Assistant equipment used for test

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

11.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

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

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m

30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30 MHz, 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 from 9 kHz to 25 GHz:

(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 1 m to 4 m (Except loop antenna, it's fixed 1 m 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.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m 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 equipment and all of the interface cables were changed according to ANSI C63.10 on Radiated Emission test.

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

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

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10 clause 4.1.5.2.2 procedure for average measure.
- (8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.
- (9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.
- (10) For 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is reported)
- (11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode.

11.6. Test result

PASS. (See below detailed test result)

11.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-18

Tested By:

Zhang Yibo

Test Mode:

TX SRD Mode

Power Supply:

DC 5V

Condition:

Temp:20.7°C;Humi:44.4%

Test Site:

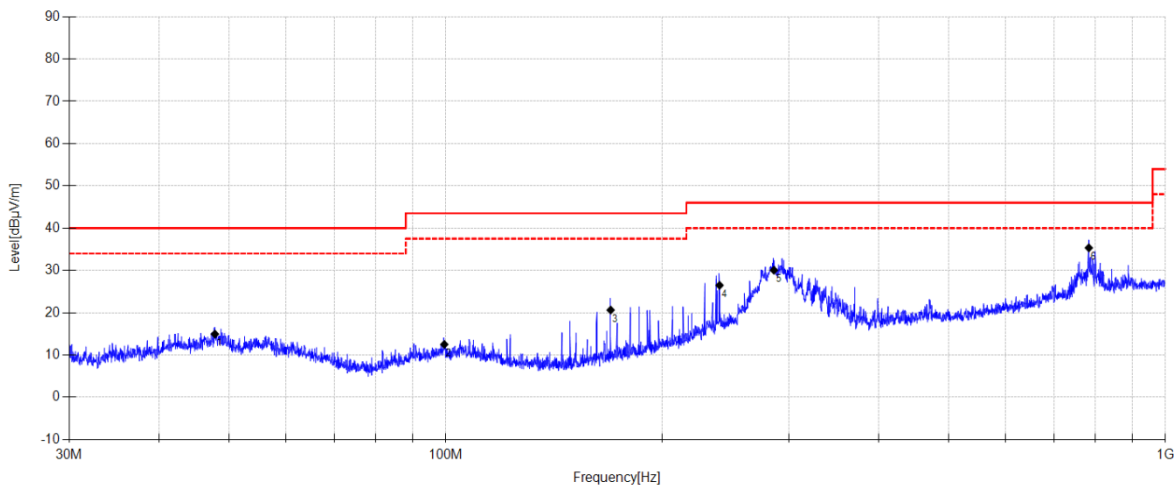
DDT 3# Chamber

File Path:

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Memo:

Sample Number: S26062925-007



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	47.788	29.42	13.86	3.97	14.95	40.00	25.05	QP	Horizontal
2	99.574	29.14	11.37	4.30	12.51	43.50	30.99	QP	Horizontal
3	169.540	39.65	8.65	4.70	20.63	43.50	22.87	QP	Horizontal
4	240.224	41.64	12.20	5.04	26.48	46.00	19.52	QP	Horizontal
5	285.849	44.11	13.12	5.22	30.05	46.00	15.95	QP	Horizontal
6	782.932	40.35	20.70	6.89	35.34	46.00	10.66	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:

2026-08-18

Tested By:

Zhang Yibo

Test Mode:

TX SRD Mode

Power Supply:

DC 5V

Condition:

Temp:20.7°C;Humi:44.4%

Test Site:

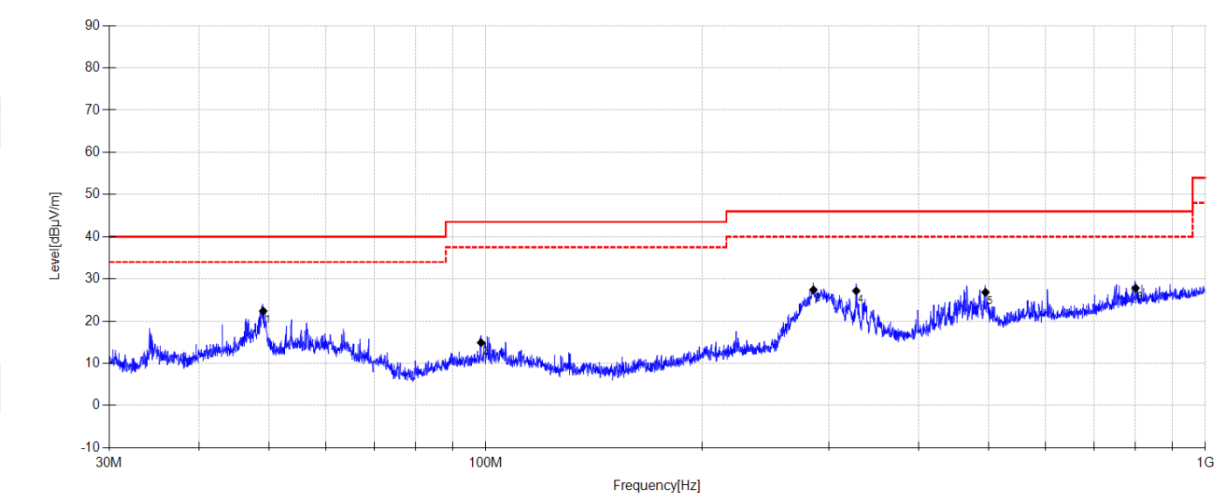
DDT 3# Chamber

File Path:

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Memo:

Sample Number: S26062925-007



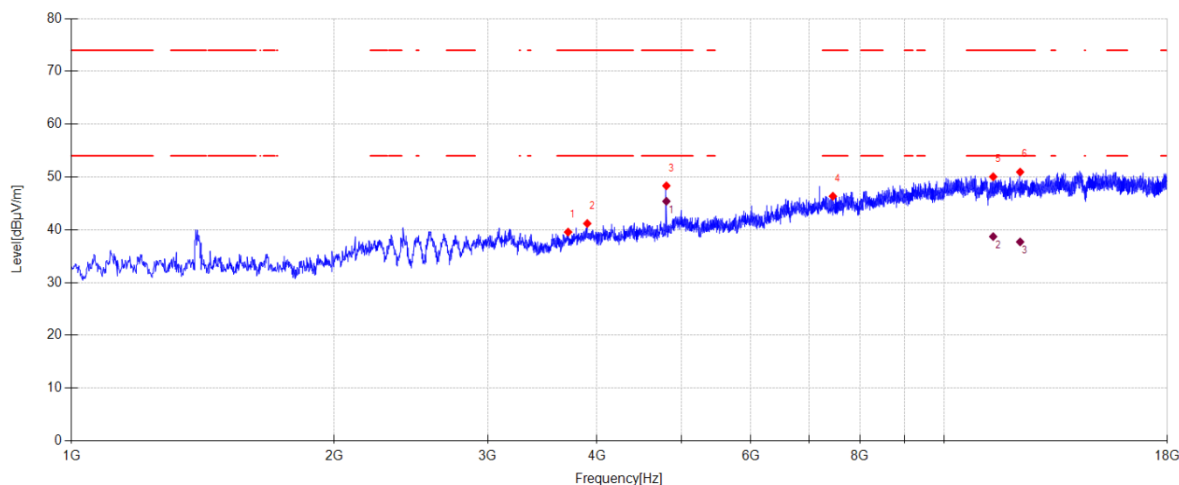
Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	49.078	36.94	13.79	3.97	22.40	40.00	17.60	QP	Vertical
2	98.532	31.77	11.15	4.29	14.91	43.50	28.59	QP	Vertical
3	285.448	41.5	13.11	5.22	27.43	46.00	18.57	QP	Vertical
4	327.271	40.25	13.94	5.40	27.16	46.00	18.84	QP	Vertical
5	494.962	36.6	16.80	6.02	26.83	46.00	19.17	QP	Vertical
6	800.137	32.67	20.71	6.94	27.82	46.00	18.18	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: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2402MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\1
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3706.400	50.23	30.73	-41.40	39.56	74.00	34.44	PK	Horizontal
2	3898.500	50.38	31.60	-40.80	41.18	74.00	32.82	PK	Horizontal
3	4802.900	56.41	33.21	-41.30	48.32	74.00	25.68	PK	Horizontal
4	7451.500	48.87	37.10	-39.62	46.35	74.00	27.65	PK	Horizontal
5	11371.700	45.93	40.00	-35.89	50.04	74.00	23.96	PK	Horizontal
6	12209.800	46.36	39.89	-35.31	50.94	74.00	23.06	PK	Horizontal

Final Data List

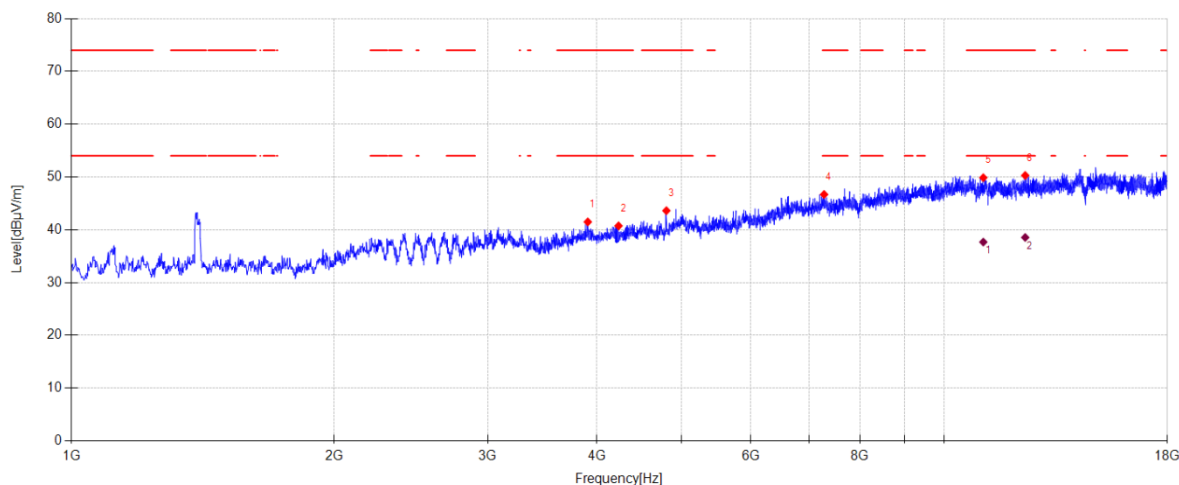
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1	4802.900	53.48	33.21	-41.30	45.39	54.00	8.61	AV	Horizontal
2	11371.700	34.59	40.00	-35.89	38.70	54.00	15.30	AV	Horizontal
3	12209.800	33.12	39.89	-35.31	37.70	54.00	16.30	AV	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2402MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\2
Memo: Sample Number: S26062925-002

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3903.600	50.69	31.61	-40.82	41.48	74.00	32.52	PK	Vertical
2	4233.400	50.04	31.97	-41.28	40.73	74.00	33.27	PK	Vertical
3	4802.900	51.70	33.21	-41.30	43.61	74.00	30.39	PK	Vertical
4	7279.800	48.78	37.74	-39.84	46.68	74.00	27.32	PK	Vertical
5	11079.300	45.24	39.70	-35.07	49.87	74.00	24.13	PK	Vertical
6	12373.000	45.11	39.73	-34.56	50.28	74.00	23.72	PK	Vertical

Final Data List

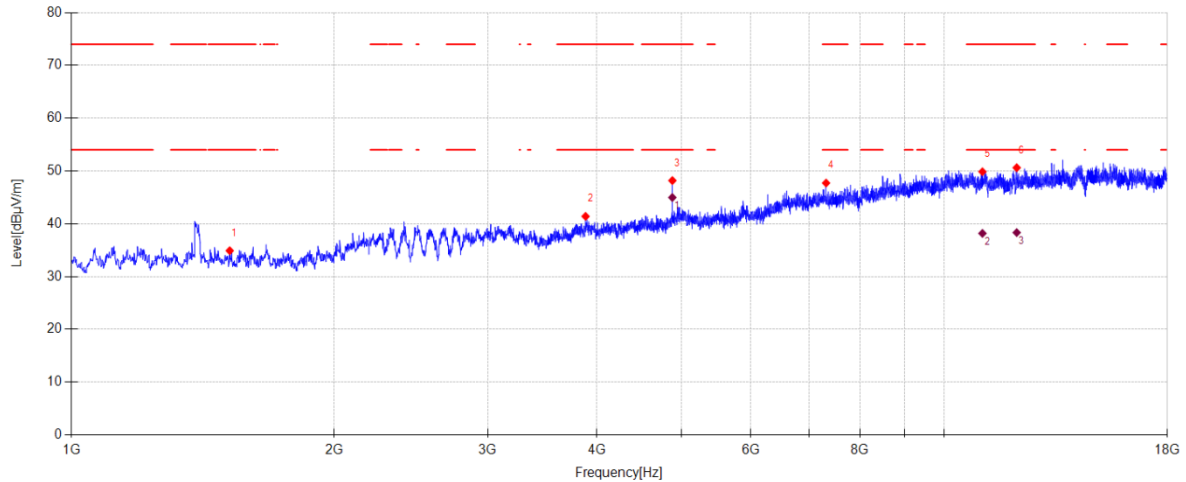
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1	11079.300	33.03	39.70	-35.07	37.66	54.00	16.34	AV	Vertical
2	12373.000	33.36	39.73	-34.56	38.53	54.00	15.47	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2440MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\3
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	1518.500	53.36	26.13	-44.60	34.89	74.00	39.11	PK	Horizontal
2	3881.500	50.67	31.56	-40.84	41.39	74.00	32.61	PK	Horizontal
3	4879.400	55.99	33.46	-41.27	48.18	74.00	25.82	PK	Horizontal
4	7318.900	49.79	37.59	-39.67	47.71	74.00	26.29	PK	Horizontal
5	11053.800	45.42	39.70	-35.26	49.86	74.00	24.14	PK	Horizontal
6	12099.300	45.41	39.90	-34.70	50.61	74.00	23.39	PK	Horizontal

Final Data List

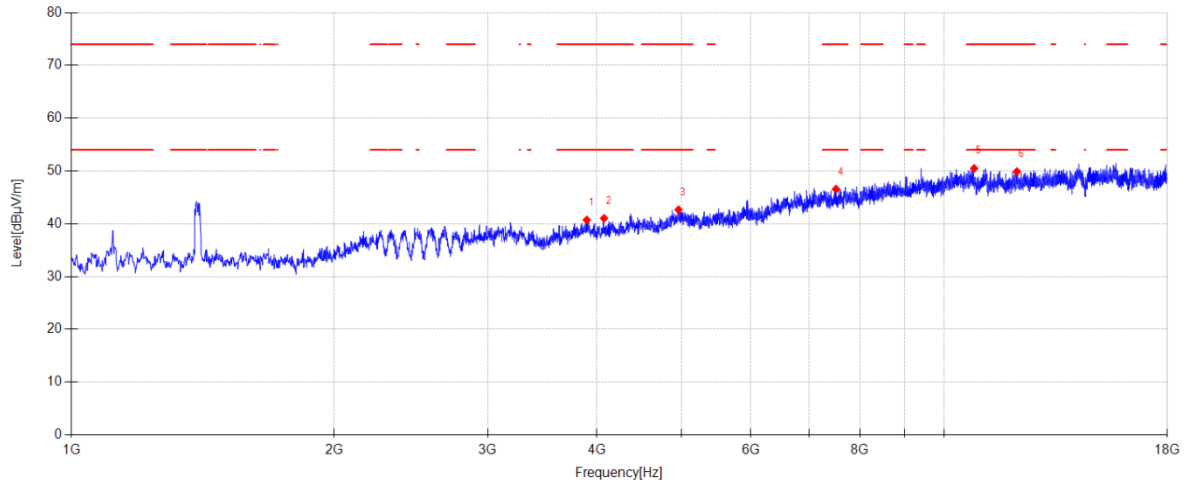
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4879.400	52.78	33.46	-41.27	44.97	54.00	9.03	AV	Horizontal
2	11053.800	33.73	39.70	-35.26	38.17	54.00	15.83	AV	Horizontal
3	12099.300	33.12	39.90	-34.70	38.32	54.00	15.68	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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2440MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\4
Memo: Sample Number: S26062925-002

**Suspected Data List**

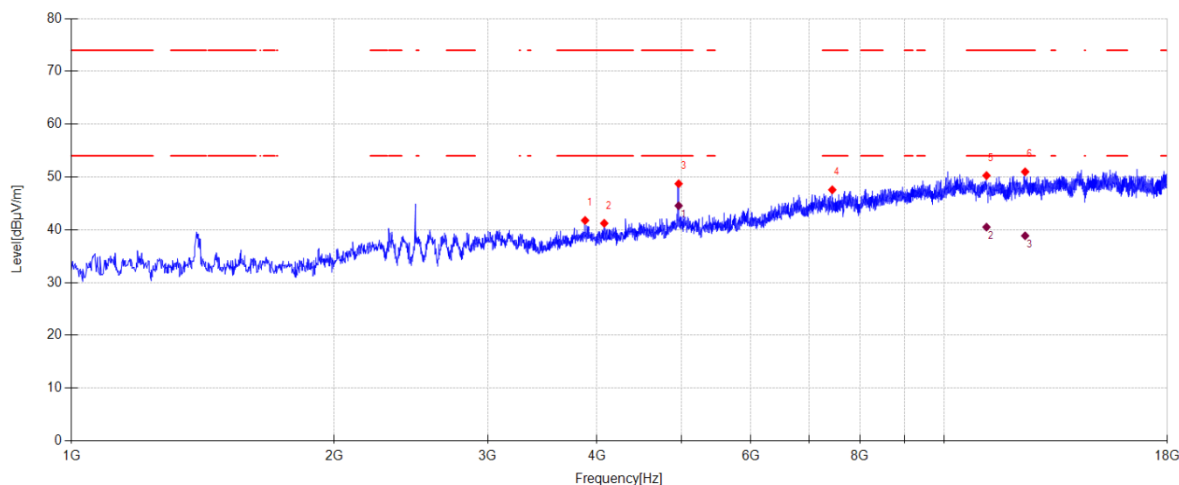
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1	3893.400	49.93	31.59	-40.81	40.71	74.00	33.29	PK	Vertical
2	4075.300	50.35	31.60	-40.92	41.03	74.00	32.97	PK	Vertical
3	4959.300	49.80	33.74	-40.89	42.65	74.00	31.35	PK	Vertical
4	7512.700	48.95	37.10	-39.49	46.56	74.00	27.44	PK	Vertical
5	10814.100	45.73	39.99	-35.24	50.48	74.00	23.52	PK	Vertical
6	12104.400	44.72	39.90	-34.73	49.89	74.00	24.11	PK	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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2480MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\5
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3876.400	51.06	31.55	-40.85	41.76	74.00	32.24	PK	Horizontal
2	4077.000	50.53	31.60	-40.91	41.22	74.00	32.78	PK	Horizontal
3	4961.000	55.85	33.74	-40.88	48.71	74.00	25.29	PK	Horizontal
4	7439.600	50.09	37.12	-39.65	47.56	74.00	26.44	PK	Horizontal
5	11172.800	45.50	39.85	-35.09	50.26	74.00	23.74	PK	Horizontal
6	12371.300	45.82	39.73	-34.57	50.98	74.00	23.02	PK	Horizontal

Final Data List

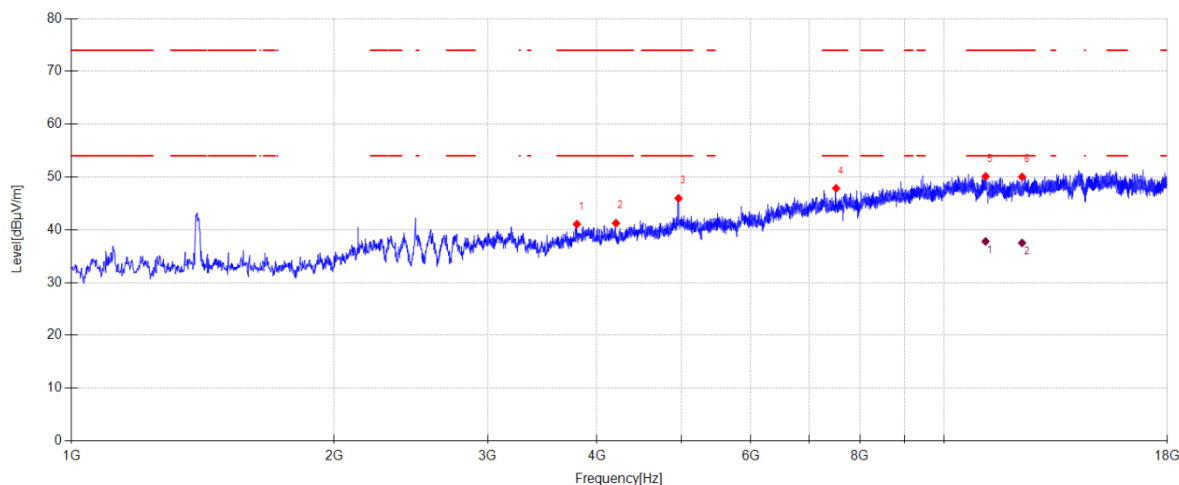
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4961.000	51.68	33.74	-40.88	44.54	54.00	9.46	AV	Horizontal
2	11172.800	35.74	39.85	-35.09	40.50	54.00	13.50	AV	Horizontal
3	12371.300	33.69	39.73	-34.57	38.85	54.00	15.15	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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2480MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\6
Memo: Sample Number: S26062925-002

**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	3793.100	50.93	31.16	-41.04	41.05	74.00	32.95	PK	Vertical
2	4204.500	50.56	31.91	-41.22	41.25	74.00	32.75	PK	Vertical
3	4959.300	53.10	33.74	-40.89	45.95	74.00	28.05	PK	Vertical
4	7514.400	50.24	37.10	-39.49	47.85	74.00	26.15	PK	Vertical
5	11145.600	45.33	39.79	-35.02	50.10	74.00	23.90	PK	Vertical
6	12271.000	45.38	39.83	-35.19	50.02	74.00	23.98	PK	Vertical

Final Data List

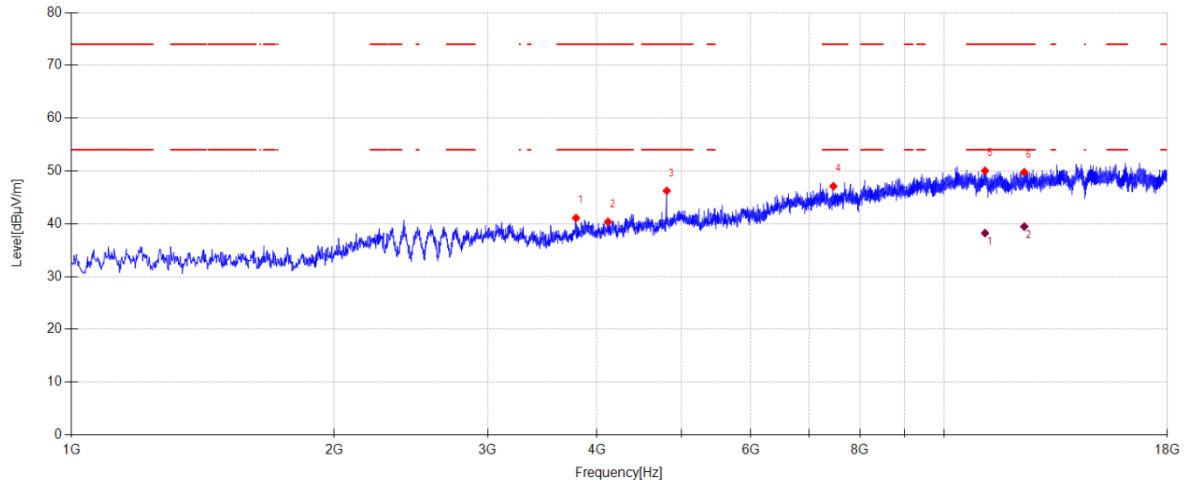
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11145.600	33.02	39.79	-35.02	37.79	54.00	16.21	AV	Vertical
2	12271.000	32.85	39.83	-35.19	37.49	54.00	16.51	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 2M 2404MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\11
Memo: Sample Number: S26062925-002

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3784.600	51.04	31.11	-41.07	41.08	74.00	32.92	PK	Horizontal
2	4117.800	49.55	31.64	-40.83	40.36	74.00	33.64	PK	Horizontal
3	4808.000	54.30	33.23	-41.30	46.23	74.00	27.77	PK	Horizontal
4	7461.700	49.60	37.10	-39.60	47.10	74.00	26.90	PK	Horizontal
5	11128.600	45.25	39.76	-34.98	50.03	74.00	23.97	PK	Horizontal
6	12342.400	44.79	39.76	-34.80	49.75	74.00	24.25	PK	Horizontal

Final Data List

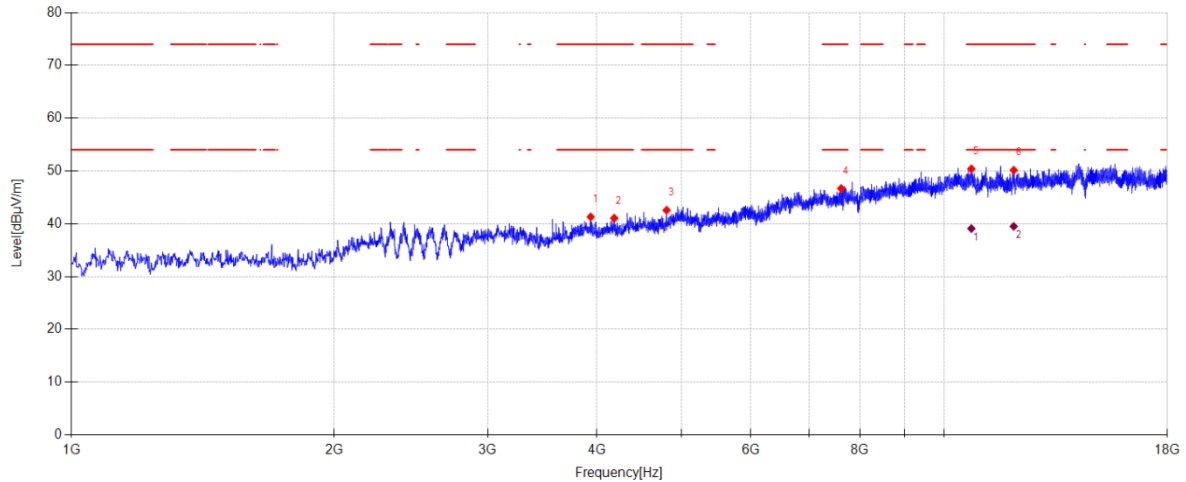
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11128.600	33.44	39.76	-34.98	38.22	54.00	15.78	AV	Horizontal
2	12342.400	34.50	39.76	-34.80	39.46	54.00	14.54	AV	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 2M 2404MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\12
Memo: Sample Number: S26062925-002

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3934.200	50.65	31.67	-41.02	41.30	74.00	32.70	PK	Vertical
2	4185.800	50.35	31.84	-41.14	41.05	74.00	32.95	PK	Vertical
3	4806.300	50.64	33.23	-41.30	42.57	74.00	31.43	PK	Vertical
4	7614.700	48.69	37.23	-39.24	46.68	74.00	27.32	PK	Vertical
5	10735.900	45.80	40.00	-35.40	50.40	74.00	23.60	PK	Vertical
6	12004.100	44.84	39.80	-34.48	50.16	74.00	23.84	PK	Vertical

Final Data List

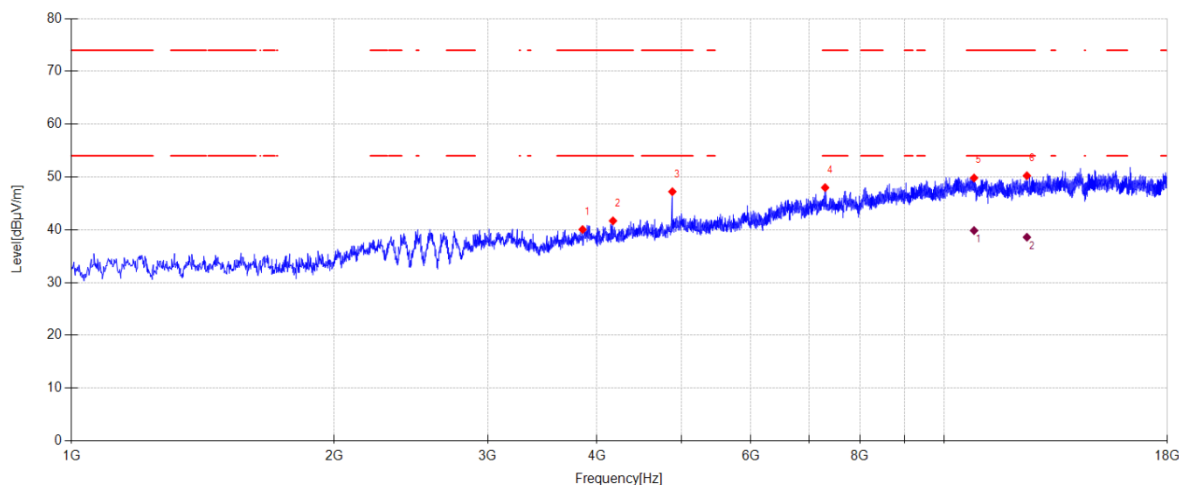
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10735.900	34.48	40.00	-35.40	39.08	54.00	14.92	AV	Vertical
2	12004.100	34.18	39.80	-34.48	39.50	54.00	14.50	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 2M 2440MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\9
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3850.900	49.44	31.50	-40.90	40.04	74.00	33.96	PK	Horizontal
2	4172.200	50.97	31.79	-41.08	41.68	74.00	32.32	PK	Horizontal
3	4879.400	55.02	33.46	-41.27	47.21	74.00	26.79	PK	Horizontal
4	7300.200	49.94	37.70	-39.66	47.98	74.00	26.02	PK	Horizontal
5	10812.400	45.05	39.99	-35.23	49.81	74.00	24.19	PK	Horizontal
6	12429.100	45.15	39.73	-34.65	50.23	74.00	23.77	PK	Horizontal

Final Data List

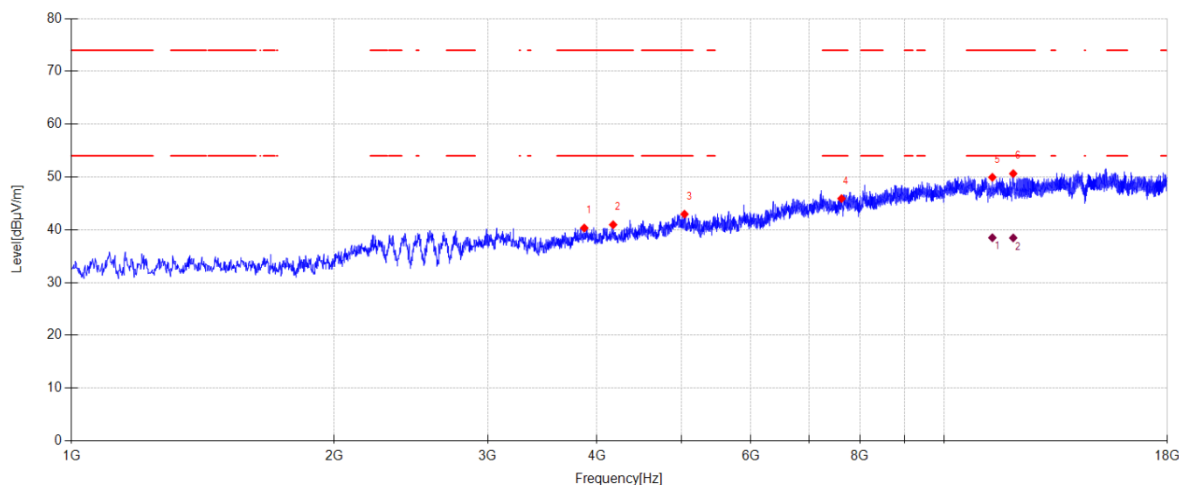
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10812.400	35.08	39.99	-35.23	39.84	54.00	14.16	AV	Horizontal
2	12429.100	33.50	39.73	-34.65	38.58	54.00	15.42	AV	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 2M 2440MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\10
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3867.900	49.66	31.54	-40.87	40.33	74.00	33.67	PK	Vertical
2	4173.900	50.23	31.80	-41.09	40.94	74.00	33.06	PK	Vertical
3	5037.500	49.82	33.98	-40.85	42.95	74.00	31.05	PK	Vertical
4	7623.200	47.84	37.25	-39.19	45.90	74.00	28.10	PK	Vertical
5	11346.200	45.89	40.00	-35.95	49.94	74.00	24.06	PK	Vertical
6	11988.800	45.44	39.78	-34.59	50.63	74.00	23.37	PK	Vertical

Final Data List

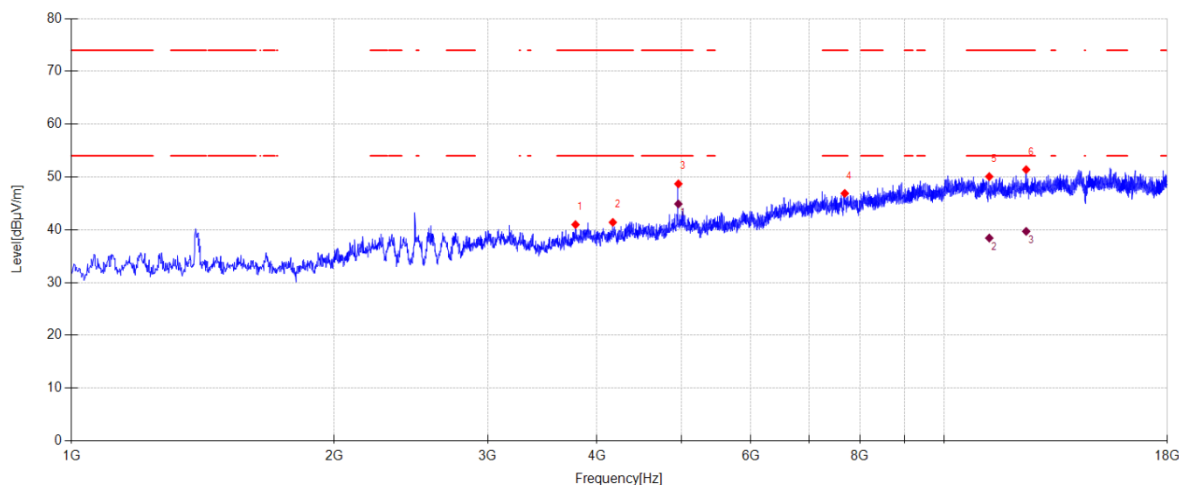
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11346.200	34.43	40.00	-35.95	38.48	54.00	15.52	AV	Vertical
2	11988.800	33.26	39.78	-34.59	38.45	54.00	15.55	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 2M 2478MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\7
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3779.500	50.99	31.08	-41.10	40.97	74.00	33.03	PK	Horizontal
2	4170.500	50.69	31.78	-41.07	41.40	74.00	32.60	PK	Horizontal
3	4957.600	55.86	33.73	-40.90	48.69	74.00	25.31	PK	Horizontal
4	7687.800	48.40	37.30	-38.82	46.88	74.00	27.12	PK	Horizontal
5	11254.400	45.76	39.95	-35.64	50.07	74.00	23.93	PK	Horizontal
6	12405.300	46.08	39.71	-34.40	51.39	74.00	22.61	PK	Horizontal

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4957.600	52.05	33.73	-40.90	44.88	54.00	9.12	AV	Horizontal
2	11254.400	34.11	39.95	-35.64	38.42	54.00	15.58	AV	Horizontal
3	12405.300	34.38	39.71	-34.40	39.69	54.00	14.31	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 2M 2478MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

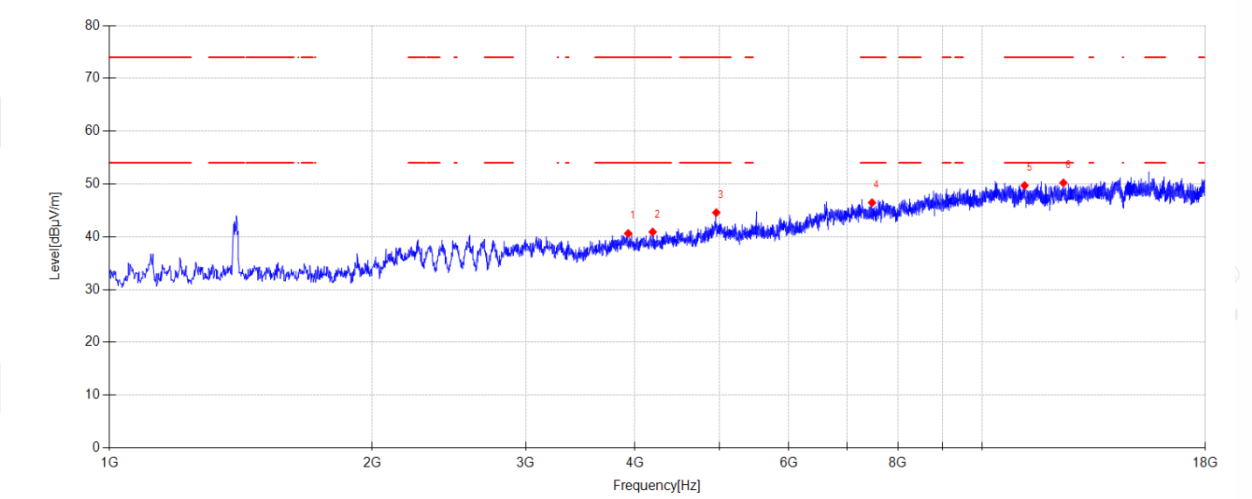
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\8

Memo:

Sample Number: S26062925-002



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	3929.100	49.95	31.66	-40.99	40.62	74.00	33.38	PK	Vertical
2	4190.900	50.21	31.86	-41.17	40.90	74.00	33.10	PK	Vertical
3	4955.900	51.76	33.72	-40.91	44.57	74.00	29.43	PK	Vertical
4	7473.600	48.93	37.10	-39.58	46.45	74.00	27.55	PK	Vertical
5	11174.500	44.95	39.85	-35.10	49.70	74.00	24.30	PK	Vertical
6	12379.800	45.00	39.72	-34.51	50.21	74.00	23.79	PK	Vertical

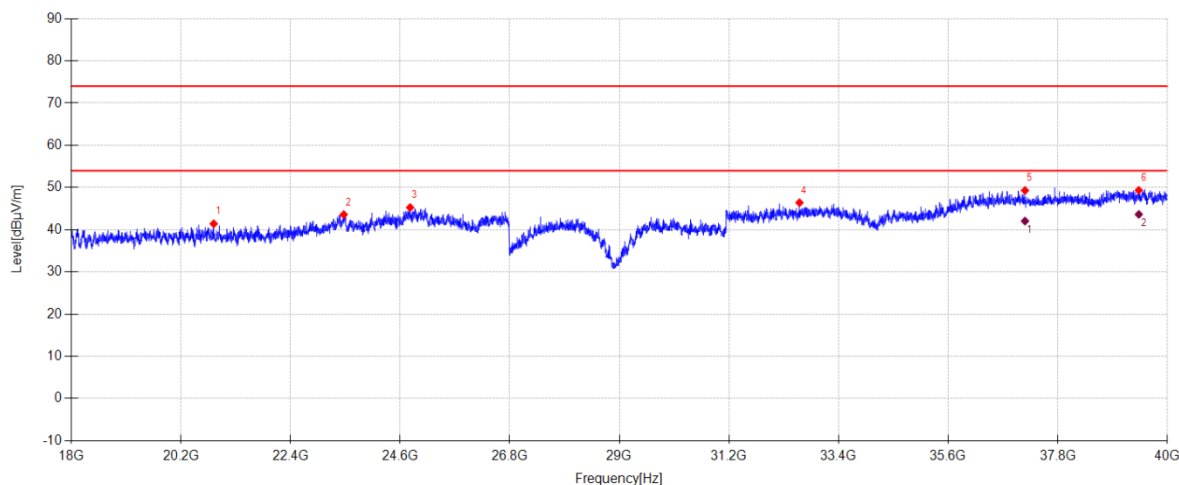
Note:

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-26 **Tested By:** Cao Jie
Test Mode: TX SRD 1M 2402MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\21
Memo: Sample Number: S26062925-002

**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	20857.771	49.74	38.36	3.72	41.41	74.00	32.59	PK	Horizontal
2	23468.441	50.52	39.21	4.69	43.59	74.00	30.41	PK	Horizontal
3	24800.635	50.95	39.50	4.71	45.26	74.00	28.74	PK	Horizontal
4	32616.530	47.66	41.45	5.20	46.41	74.00	27.59	PK	Horizontal
5	37142.229	49.80	43.04	5.76	49.30	74.00	24.70	PK	Horizontal
6	39427.909	47.05	46.24	6.64	49.35	74.00	24.65	PK	Horizontal

Final Data List

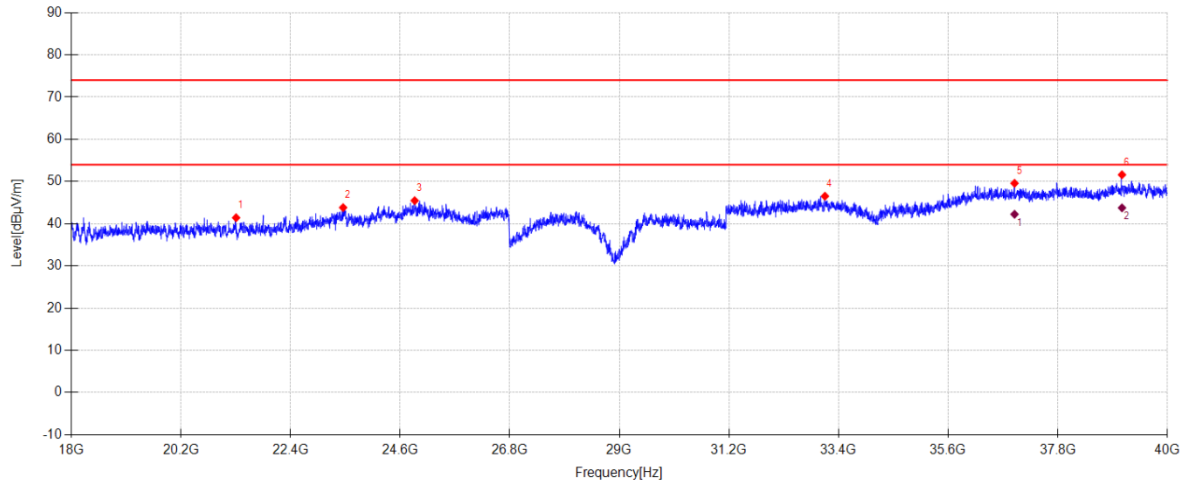
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	37142.229	42.55	43.04	5.76	42.05	54.00	11.95	AV	Horizontal
2	39427.909	41.33	46.24	6.64	43.63	54.00	10.37	AV	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-26 **Tested By:** Cao Jie
Test Mode: TX SRD 1M 2402MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\22
Memo: Sample Number: S26062925-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	21306.312	49.93	38.43	3.81	41.42	74.00	32.58	PK	Vertical
2	23455.012	50.78	39.21	4.68	43.82	74.00	30.18	PK	Vertical
3	24891.955	51.06	39.55	4.73	45.47	74.00	28.53	PK	Vertical
4	33126.847	47.64	41.65	5.40	46.52	74.00	27.48	PK	Vertical
5	36932.731	49.91	42.89	6.10	49.57	74.00	24.43	PK	Vertical
6	39089.488	49.10	45.97	6.60	51.60	74.00	22.40	PK	Vertical

Final Data List

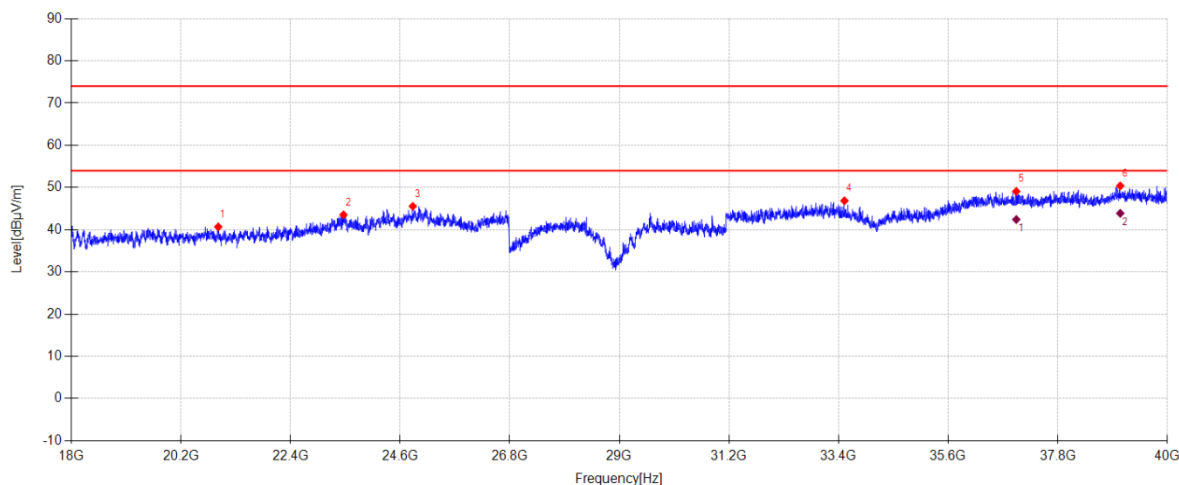
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36932.731	42.58	42.89	6.10	42.24	54.00	11.76	AV	Vertical
2	39089.488	41.26	45.97	6.60	43.76	54.00	10.24	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-26 **Tested By:** Cao Jie
Test Mode: TX SRD 2M 2404MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\23
Memo: Sample Number: S26062925-002

**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	20949.090	49.11	38.38	3.68	40.68	74.00	33.32	PK	Horizontal
2	23463.069	50.47	39.21	4.69	43.53	74.00	30.47	PK	Horizontal
3	24854.352	51.18	39.53	4.72	45.55	74.00	28.45	PK	Horizontal
4	33518.984	48.40	41.81	5.52	46.86	74.00	27.14	PK	Horizontal
5	36967.647	49.44	42.90	6.07	49.08	74.00	24.92	PK	Horizontal
6	39054.572	47.87	45.94	6.60	50.39	74.00	23.61	PK	Horizontal

Final Data List

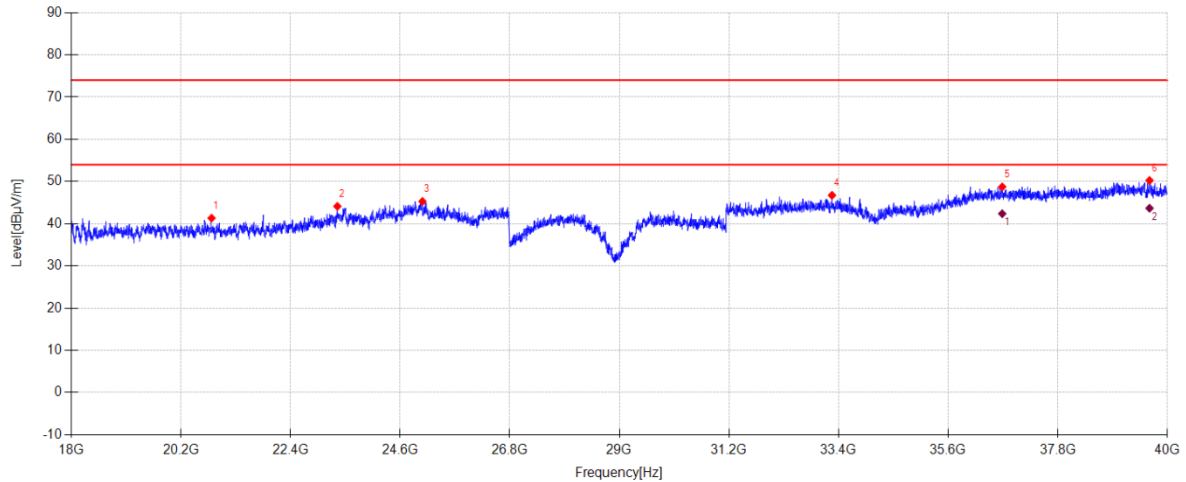
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36967.647	42.78	42.90	6.07	42.42	54.00	11.58	AV	Horizontal
2	39054.572	41.36	45.94	6.60	43.88	54.00	10.12	AV	Horizontal

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-26 **Tested By:** Cao Jie
Test Mode: TX SRD 2M 2404MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\24
Memo: Sample Number: S26062925-002

**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	20814.797	49.62	38.34	3.73	41.32	74.00	32.68	PK	Vertical
2	23339.519	51.25	39.23	4.64	44.12	74.00	29.88	PK	Vertical
3	25047.735	50.78	39.59	4.76	45.28	74.00	28.72	PK	Vertical
4	33269.198	47.99	41.71	5.45	46.73	74.00	27.27	PK	Vertical
5	36685.631	48.84	42.87	6.30	48.73	74.00	25.27	PK	Vertical
6	39642.779	48.20	46.41	6.54	50.25	74.00	23.75	PK	Vertical

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36685.631	42.48	42.87	6.30	42.37	54.00	11.63	AV	Vertical
2	39642.779	41.62	46.41	6.54	43.67	54.00	10.33	AV	Vertical

Note:

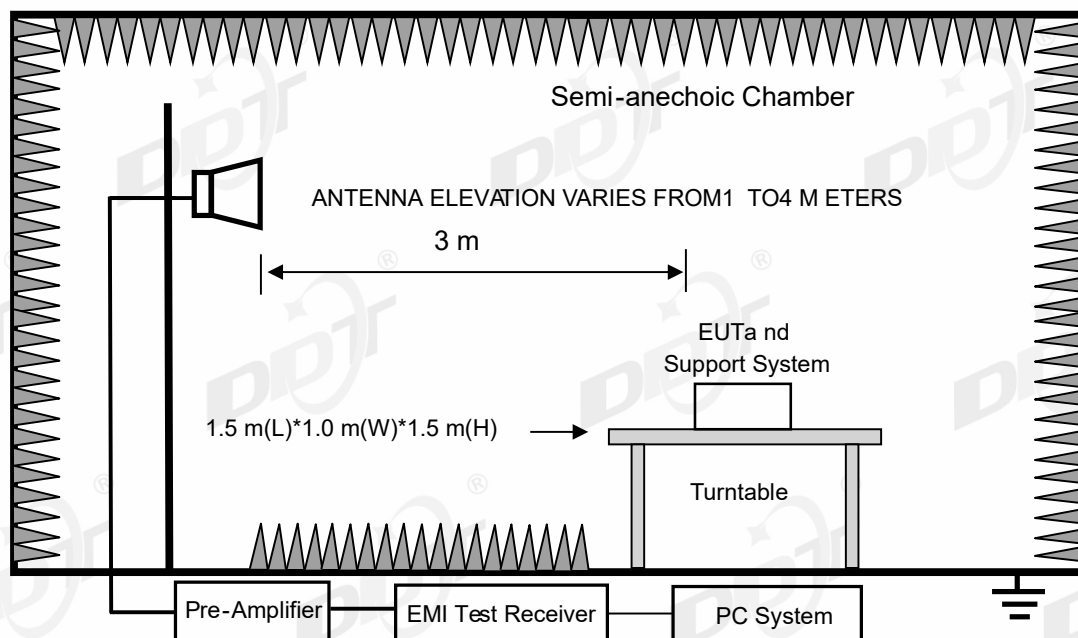
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

12. Band Edge Compliance

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Band Reject Filter Group	Tonscend	JS0806-F	DDT-ZC05733	/
Hochgewinn-Hornantenne	SCHWARZBEC K	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	2027/07/10
SPECTRUM ANALYZER	R&S	FSU26	DDT-ZC00236	2027/06/25
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	/

12.2. Block diagram of test setup



12.3. Limits

All restriction band should comply with 15.209 limits, other emission should be at least 20 dB below the fundamental.

12.4. Assistant equipment used for test

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

12.5. Test procedure

Same with Radiated Emission except change investigated frequency range.

Remark: All restriction band have been tested, and only the worst case is shown in report.

12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 1M 2402MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

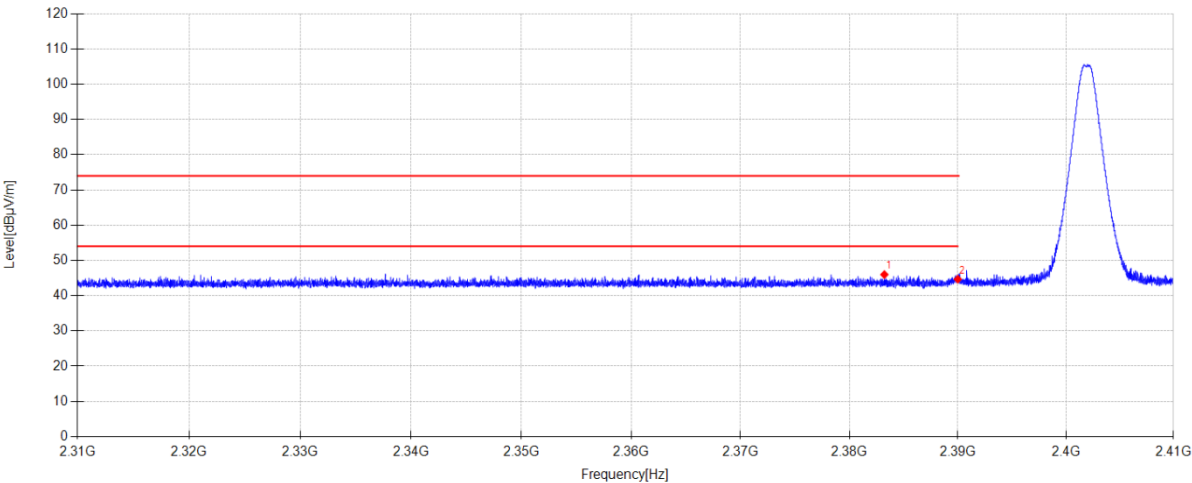
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\13

Memo:

Sample Number: S26062925-002



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	2383.220	43.94	28.17	-26.14	45.97	74.00	28.03	PK	Horizontal
2	2390.000	42.63	28.18	-26.15	44.66	74.00	29.34	PK	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 1M 2402MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

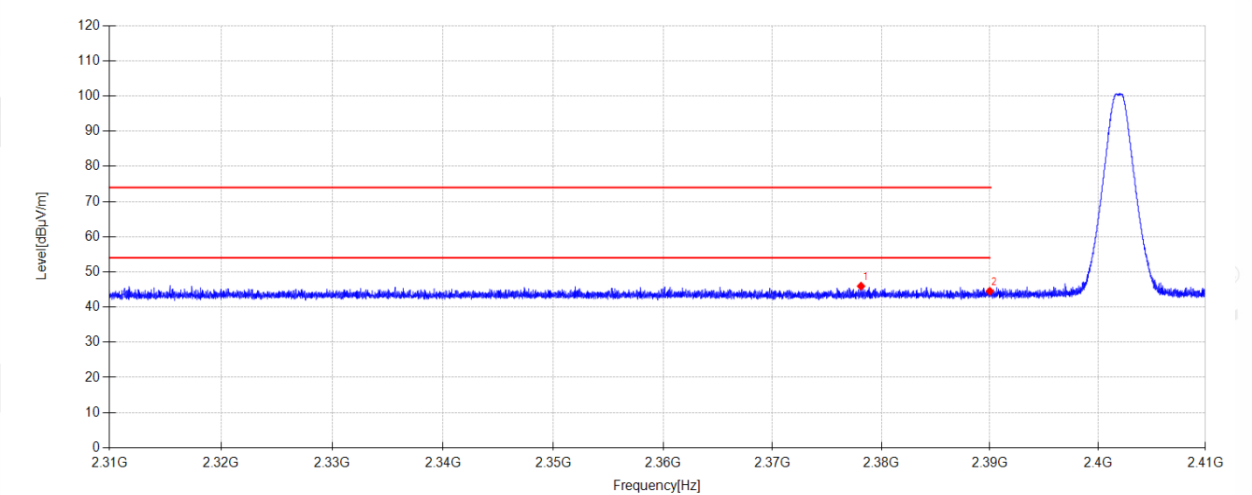
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\14

Memo:

Sample Number: S26062925-002



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	2378.130	43.93	28.16	-26.14	45.95	74.00	28.05	PK	Vertical
2	2390.000	42.48	28.18	-26.15	44.51	74.00	29.49	PK	Vertical

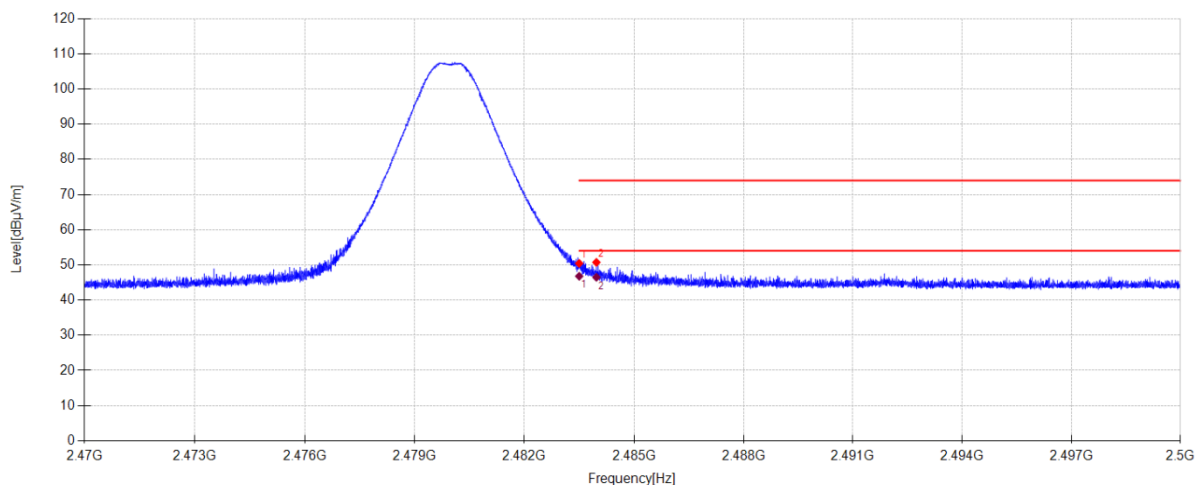
Note:

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-06 **Tested By:** Zhong Nan
Test Mode: TX SRD 1M 2480MHz Mode **Power Supply:** DC 5V
Condition: Temp:22.8°C;Humi:50.4% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\15
Memo: Sample Number: S26062925-002



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	2483.500	47.97	28.60	-26.14	50.43	74.00	23.57	PK	Horizontal
2	2483.971	48.27	28.60	-26.14	50.73	74.00	23.27	PK	Horizontal

Final Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	44.32	28.60	-26.14	46.78	54.00	7.22	AV	Horizontal
2	2483.971	44.02	28.60	-26.14	46.48	54.00	7.52	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 1M 2480MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

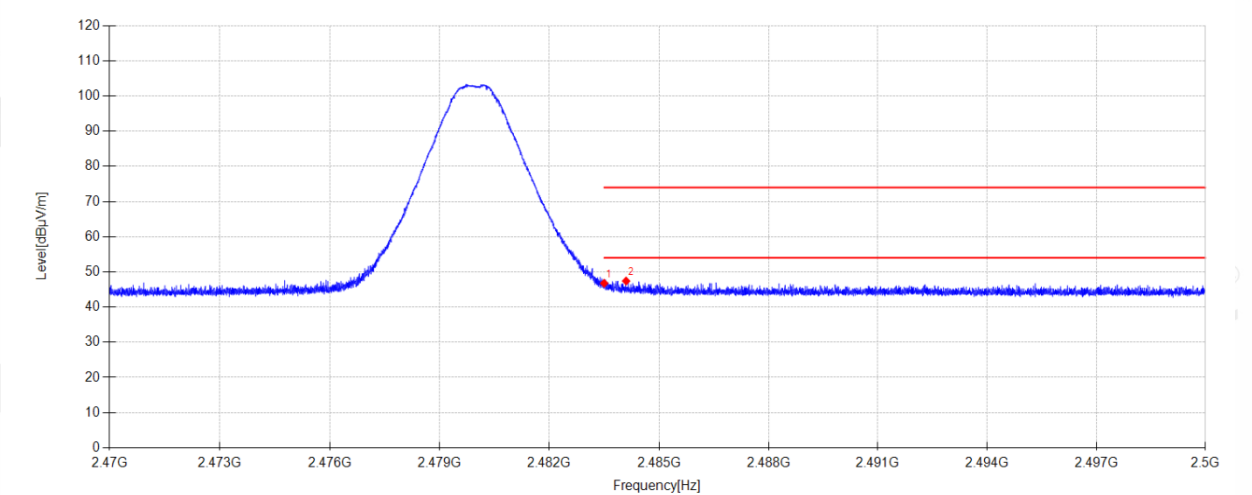
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\16

Memo:

Sample Number: S26062925-002



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	2483.500	44.31	28.60	-26.14	46.77	74.00	27.23	PK	Vertical
2	2484.100	44.95	28.60	-26.14	47.41	74.00	26.59	PK	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 2M 2404MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

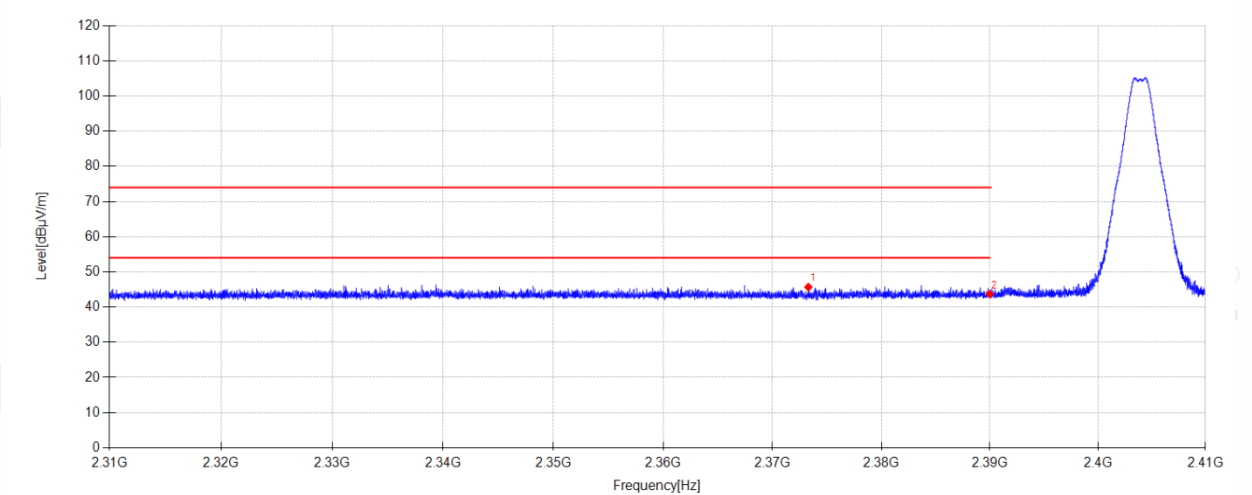
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\19

Memo:

Sample Number: S26062925-002



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	2373.290	43.67	28.15	-26.14	45.68	74.00	28.32	PK	Horizontal
2	2390.000	41.66	28.18	-26.15	43.69	74.00	30.31	PK	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 2M 2404MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

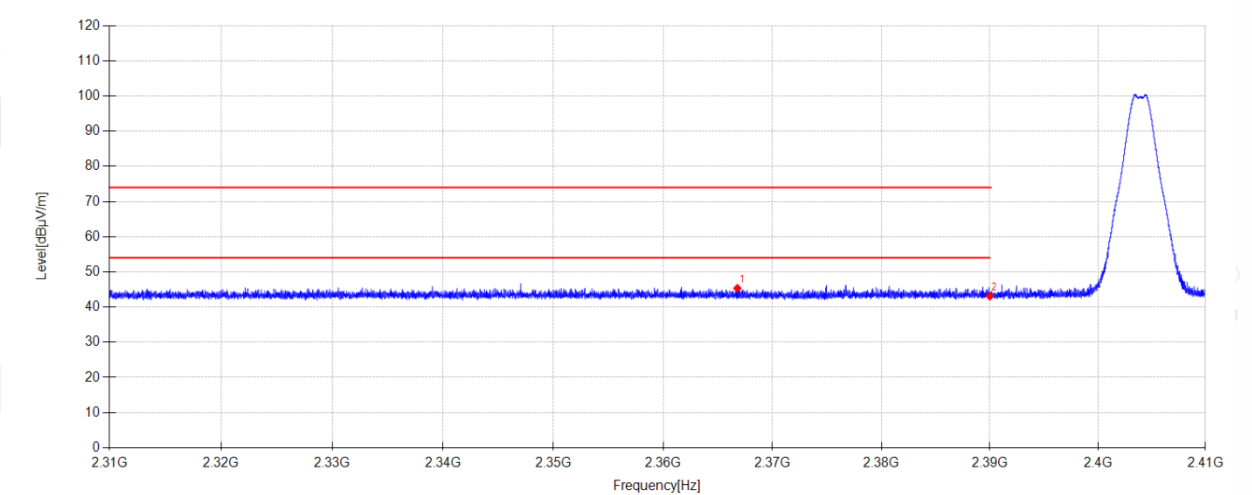
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\20

Memo:

Sample Number: S26062925-002



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	2366.780	43.36	28.13	-26.14	45.35	74.00	28.65	PK	Vertical
2	2390.000	41.06	28.18	-26.15	43.09	74.00	30.91	PK	Vertical

Note:

- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 2M 2478MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

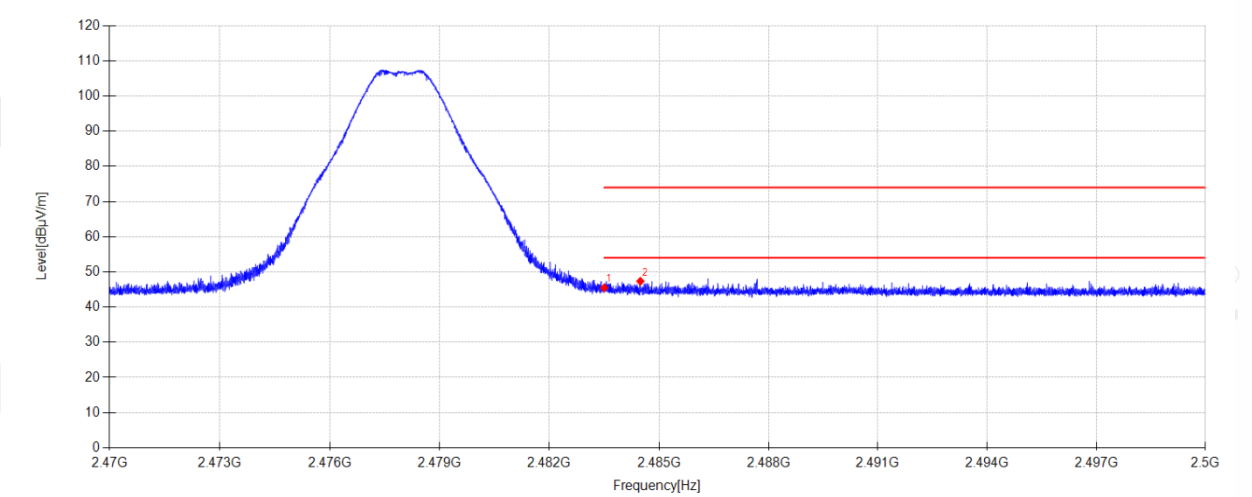
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\17

Memo:

Sample Number: S26062925-002



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	2483.500	43.02	28.60	-26.14	45.48	74.00	28.52	PK	Horizontal
2	2484.490	44.87	28.61	-26.14	47.34	74.00	26.66	PK	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.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-06

Tested By:

Zhong Nan

Test Mode:

TX SRD 2M 2478MHz Mode

Power Supply:

DC 5V

Condition:

Temp:22.8°C;Humi:50.4%

Test Site:

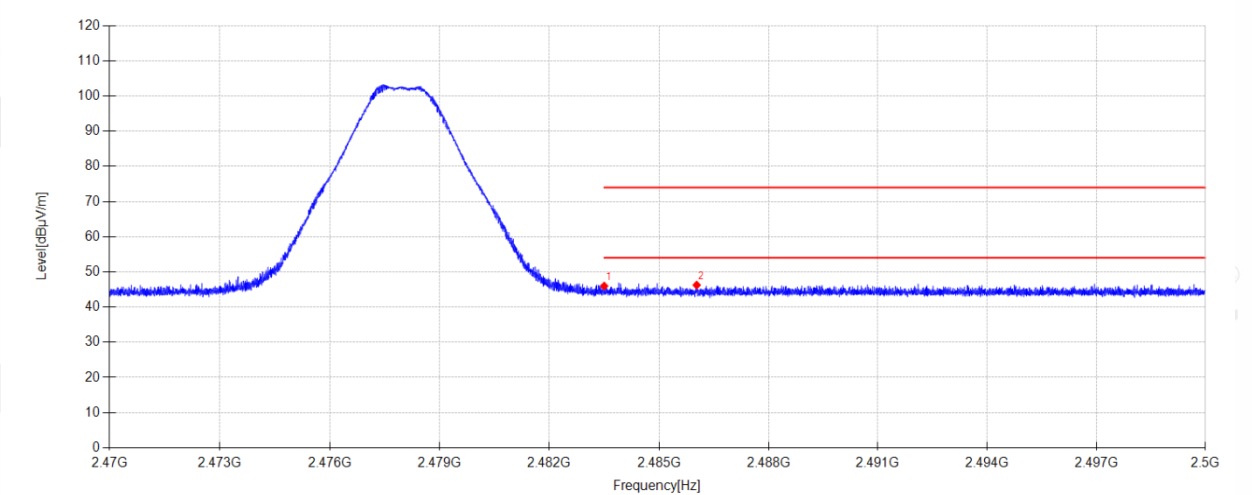
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26062925-1E\FCC ABOVE1G SRD\18

Memo:

Sample Number: S26062925-002



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	2483.500	43.51	28.60	-26.14	45.97	74.00	28.03	PK	Vertical
2	2486.032	43.77	28.62	-26.14	46.25	74.00	27.75	PK	Vertical

Note:

1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

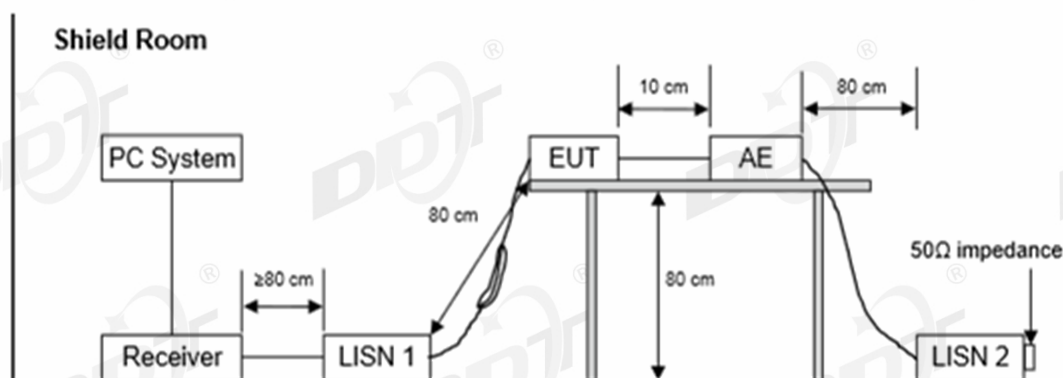
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Power Line Conducted Emissions

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI 3	DDT-ZC01972	2027/02/27
Two Line V-Network	R&S	ENV216	DDT-ZC00586	2027/06/14
Pulse Limiter	R&S	KH43101	DDT-ZC00747	2027/02/27
Coaxial signal signal cable	H&S	RG214-5	DDT-ZC01817	2027/02/27
Conducted & Radiated Software	Audix	e3	DDT-ZC00562	/
Two Line V-Network	R&S	ENV216	DDT-ZC02058	2027/06/10

13.2. Block diagram of test setup



13.3. Limits

Frequency	Quasi-Peak Level	Average Level
	dB(μV)	dB(μV)
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.

13.4. Assistant equipment used for test

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

13.5. 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.

13.6. 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.

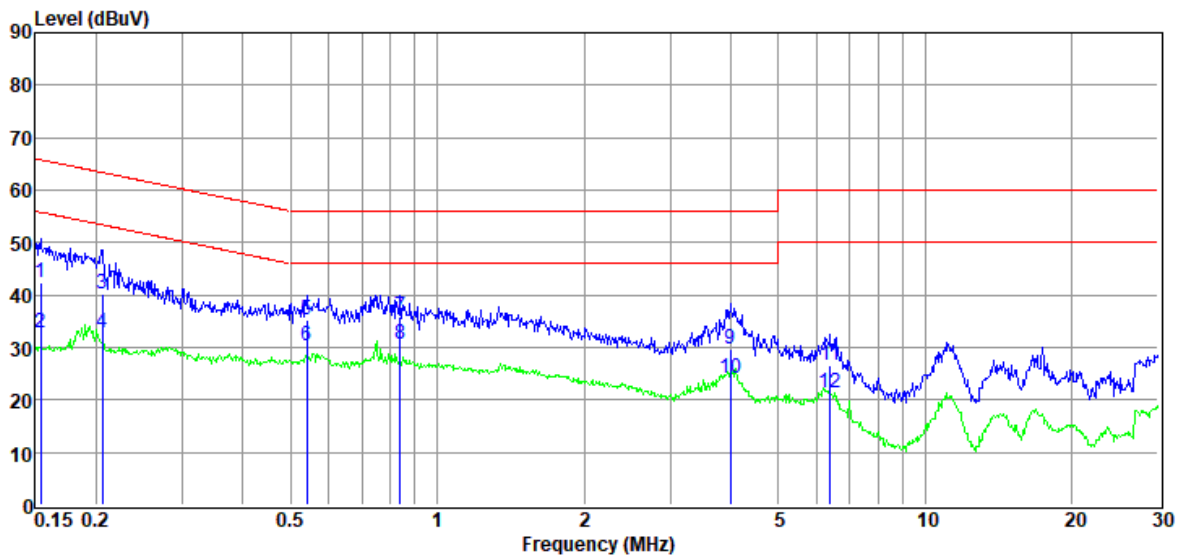
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

13.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2026 report data\Q26062925-1E\0817 CE\0817 CE.EM6
Test Date : 2026-08-17 Tested By : Zhang Yibo
Power Supply : AC 120V/60Hz Test Mode : Tx mode
Condition : Temp:20.8°C,Humi:58.3% LISN : 2026 2# 216/NEUTRAL
Memo : Sample Number: S26062925-007

Data: 2



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	0.15	22.56	9.56	0.05	10.05	42.22	65.78	23.56	QP	NEUTRAL
2	0.15	13.05	9.56	0.05	10.05	32.71	55.78	23.07	Average	NEUTRAL
3	0.21	20.60	9.56	0.06	10.05	40.27	63.36	23.09	QP	NEUTRAL
4	0.21	13.07	9.56	0.06	10.05	32.74	53.36	20.62	Average	NEUTRAL
5	0.54	15.64	9.56	0.08	10.05	35.33	56.00	20.67	QP	NEUTRAL
6	0.54	10.61	9.56	0.08	10.05	30.30	46.00	15.70	Average	NEUTRAL
7	0.84	16.30	9.58	0.10	10.05	36.03	56.00	19.97	QP	NEUTRAL
8	0.84	10.95	9.58	0.10	10.05	30.68	46.00	15.32	Average	NEUTRAL
9	3.99	9.89	9.62	0.17	10.05	29.73	56.00	26.27	QP	NEUTRAL
10	3.99	4.24	9.62	0.17	10.05	24.08	46.00	21.92	Average	NEUTRAL
11	6.39	6.81	9.60	0.21	10.05	26.67	60.00	33.33	QP	NEUTRAL
12	6.39	1.47	9.60	0.21	10.05	21.33	50.00	28.67	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.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room

D:\2026 report data\Q26062925-1E\0817 CE\0817 CE.EM6

Test Date : 2026-08-17

Tested By : Zhang Yibo

Power Supply : AC 120V/60Hz

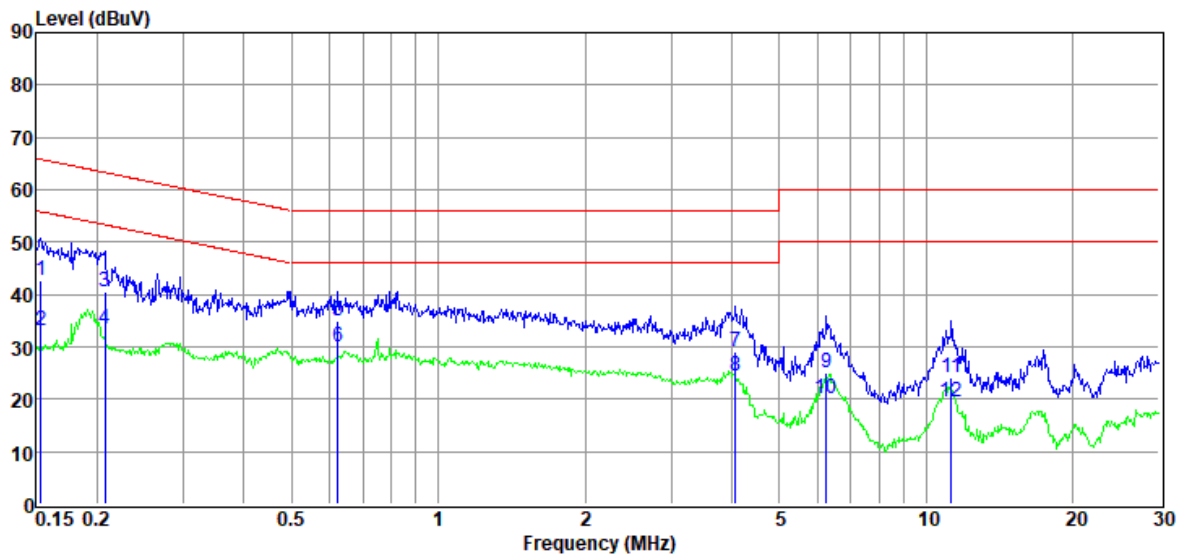
Test Mode : Tx mode

Condition : Temp:20.8°C,Humi:58.3%

LISN : 2026 2# 216/LINE

Memo : Sample Number: S26062925-007

Data: 4



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	0.15	22.93	9.55	0.05	10.05	42.58	65.82	23.24	QP	LINE
2	0.15	13.54	9.55	0.05	10.05	33.19	55.82	22.63	Average	LINE
3	0.21	20.80	9.55	0.06	10.05	40.46	63.32	22.86	QP	LINE
4	0.21	13.70	9.55	0.06	10.05	33.36	53.32	19.96	Average	LINE
5	0.62	15.16	9.55	0.09	10.05	34.85	56.00	21.15	QP	LINE
6	0.62	10.16	9.55	0.09	10.05	29.85	46.00	16.15	Average	LINE
7	4.07	9.42	9.58	0.17	10.05	29.22	56.00	26.78	QP	LINE
8	4.07	4.58	9.58	0.17	10.05	24.38	46.00	21.62	Average	LINE
9	6.25	5.27	9.59	0.20	10.05	25.11	60.00	34.89	QP	LINE
10	6.25	0.20	9.59	0.20	10.05	20.04	50.00	29.96	Average	LINE
11	11.26	4.25	9.66	0.26	10.06	24.23	60.00	35.77	QP	LINE
12	11.26	-0.39	9.66	0.26	10.06	19.59	50.00	30.41	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.

15. Photos of the EUT

Please refer to DDT-Q26062925-2E appendix I

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