





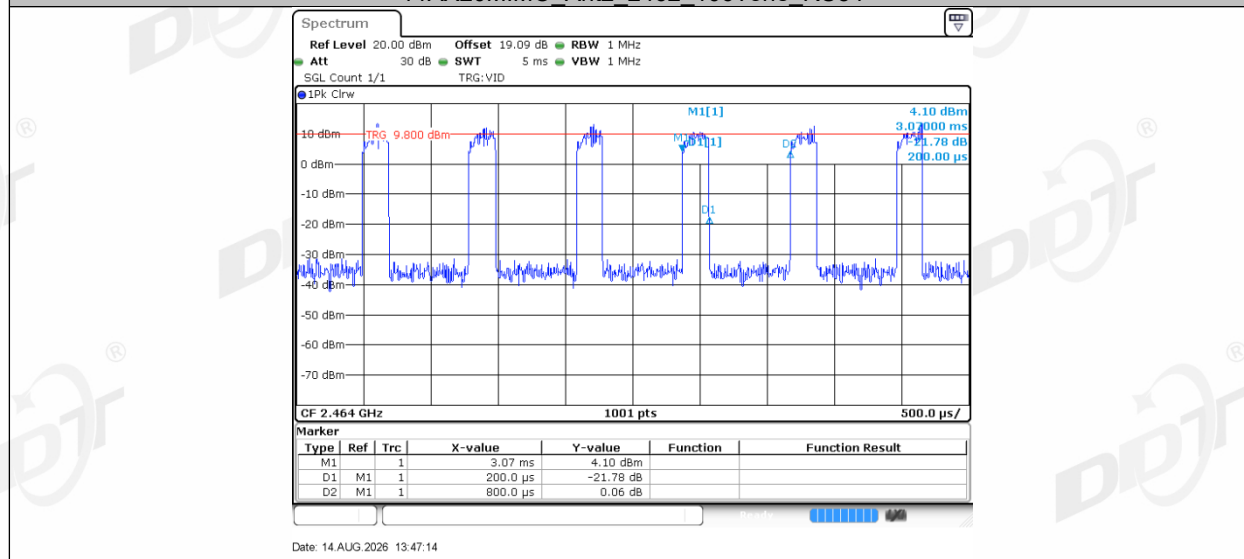
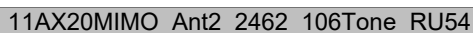
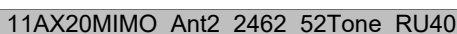












11. Antenna Requirements

11.1. 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.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

11.2. 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.

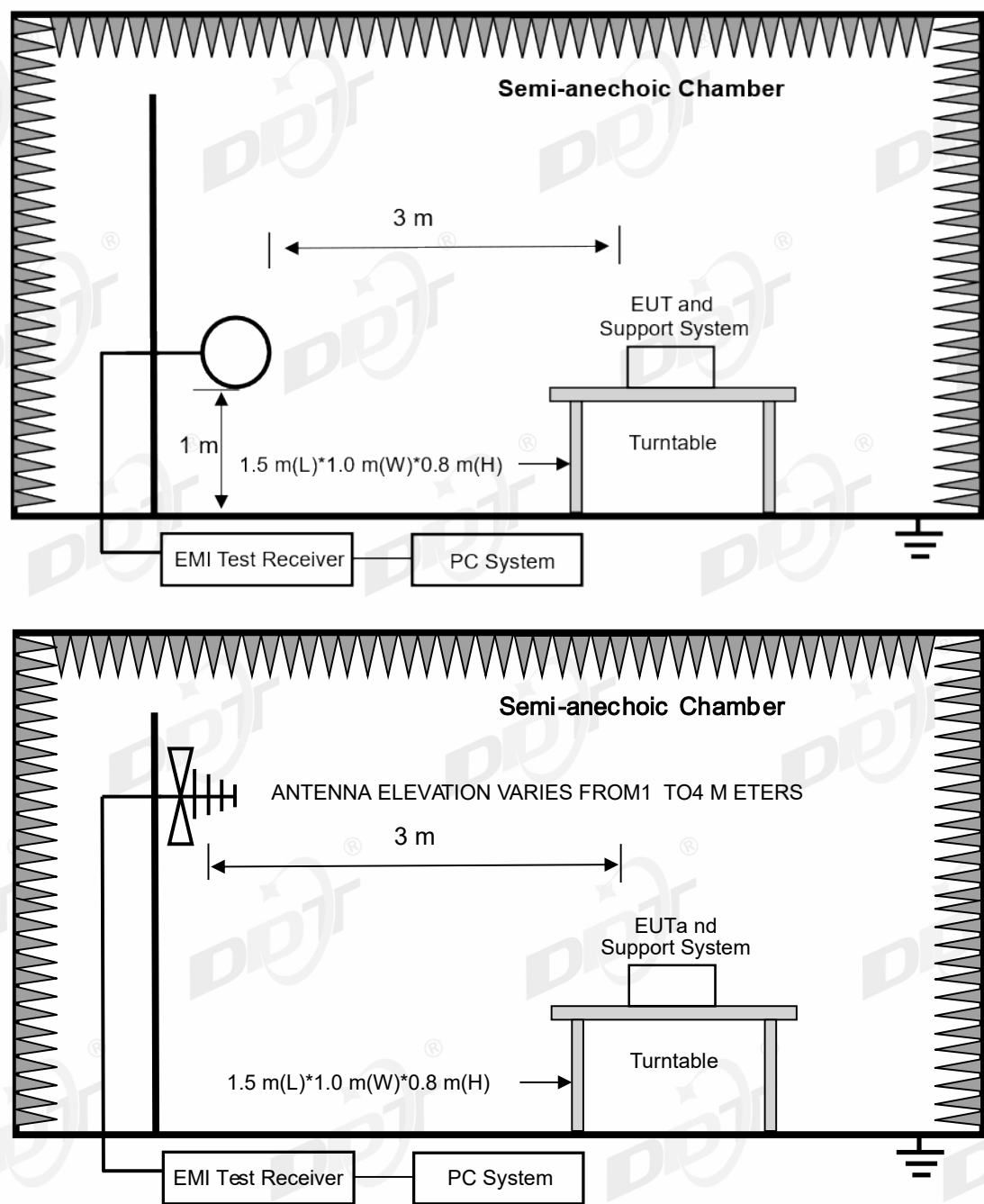
12. Radiated Emission

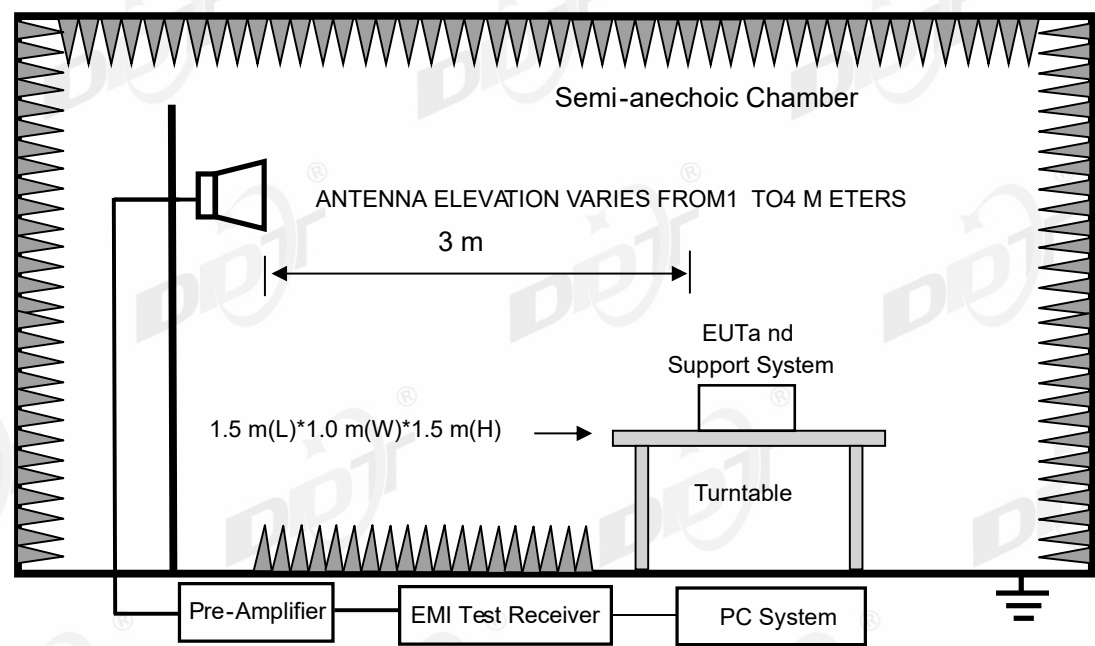
12.1. Test equipment

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	/

12.2. Block diagram of test setup





12.3. 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

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	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:

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

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

12.4. Assistant equipment used for test

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

12.5. 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 30MHz, 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) 30 MHz ~ 25 GHz: (Scan with all mode, the worst case is record and report)

(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 the worst mode.

(12) The worst simultaneous case and was recorded.

12.6. Test result

PASS. (See below detailed test result)

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2026-08-04

Tested By:

Li Xiongbin

Test Mode:

MIMO N20 TX Mode

Power Supply:

DC 5V

Condition:

Temp:20.9°C;Humi:53.7%

Test Site:

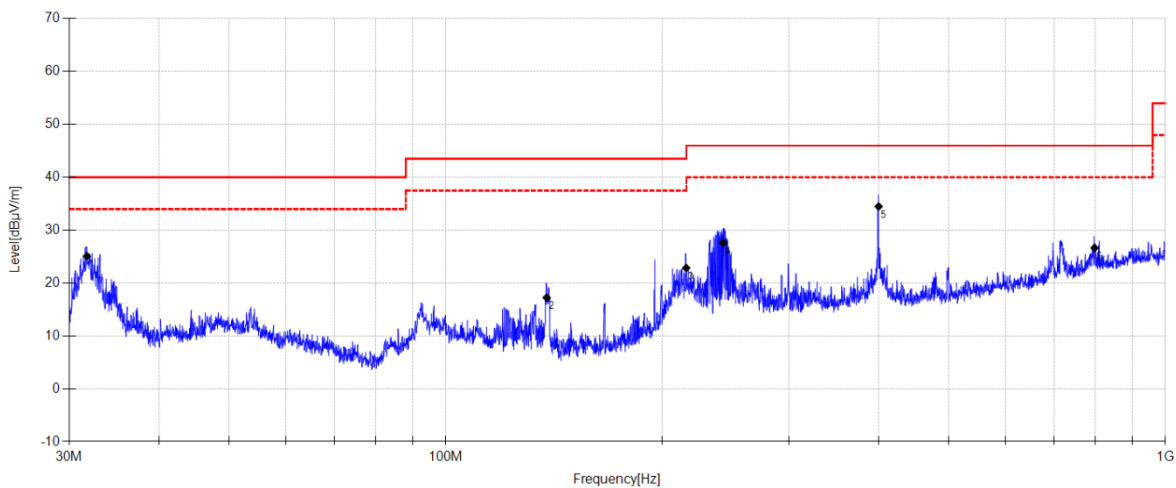
DDT 3# Chamber

File Path:

d:\ts\2026 report data\Q26072701-2E\FCC Below 1G\7

Memo:

Sample Number: S26072701-001



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	31.731	42.93	10.65	3.80	25.08	40.00	14.92	QP	Horizontal
2	138.151	37.17	7.88	4.52	17.23	43.50	26.27	QP	Horizontal
3	215.939	39.42	10.88	4.94	22.84	43.50	20.66	QP	Horizontal
4	243.105	42.74	12.20	5.05	27.59	46.00	18.41	QP	Horizontal
5	399.664	45.88	15.39	5.71	34.48	46.00	11.52	QP	Horizontal
6	797.337	31.64	20.59	6.93	26.64	46.00	19.36	QP	Horizontal

Note:

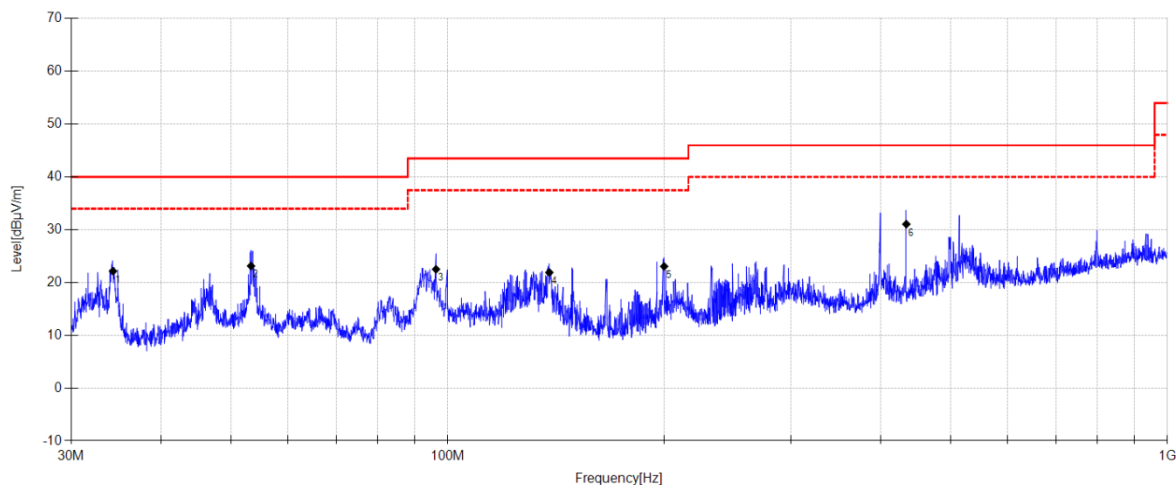
1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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: 2026-08-04 **Tested By:** Li Xiongbin
Test Mode: MIMO N20 TX Mode **Power Supply:** DC 5V
Condition: Temp:20.9°C;Humi:53.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2026 report data\Q26072701-2E\FCC Below 1G\8
Memo: Sample Number: S26072701-001



Final Data List

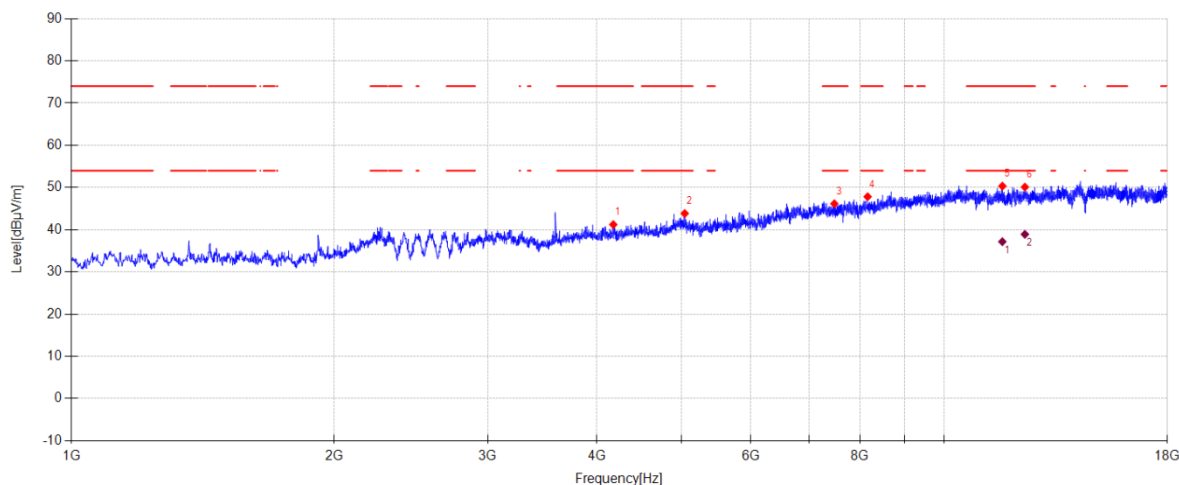
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	34.275	39.6	11.00	3.84	22.14	40.00	17.86	QP	Vertical
2	53.312	37.84	13.57	4.01	23.12	40.00	16.88	QP	Vertical
3	96.346	39.55	10.97	4.28	22.50	43.50	21.00	QP	Vertical
4	138.442	41.86	7.86	4.52	21.90	43.50	21.60	QP	Vertical
5	199.910	39.38	11.19	4.88	23.05	43.50	20.45	QP	Vertical
6	433.833	41.81	15.95	5.82	31.05	46.00	14.95	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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\5
Memo: Sample Number: S26072701-001



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	4175.600	50.51	31.80	-41.10	41.21	74.00	32.79	PK	Horizontal
2	5040.900	50.74	33.98	-40.87	43.85	74.00	30.15	PK	Horizontal
3	7480.400	48.62	37.10	-39.56	46.16	74.00	27.84	PK	Horizontal
4	8165.500	48.58	37.90	-38.66	47.82	74.00	26.18	PK	Horizontal
5	11650.500	46.04	39.55	-35.25	50.34	74.00	23.66	PK	Horizontal
6	12362.800	45.01	39.74	-34.64	50.11	74.00	23.89	PK	Horizontal

Final Data List

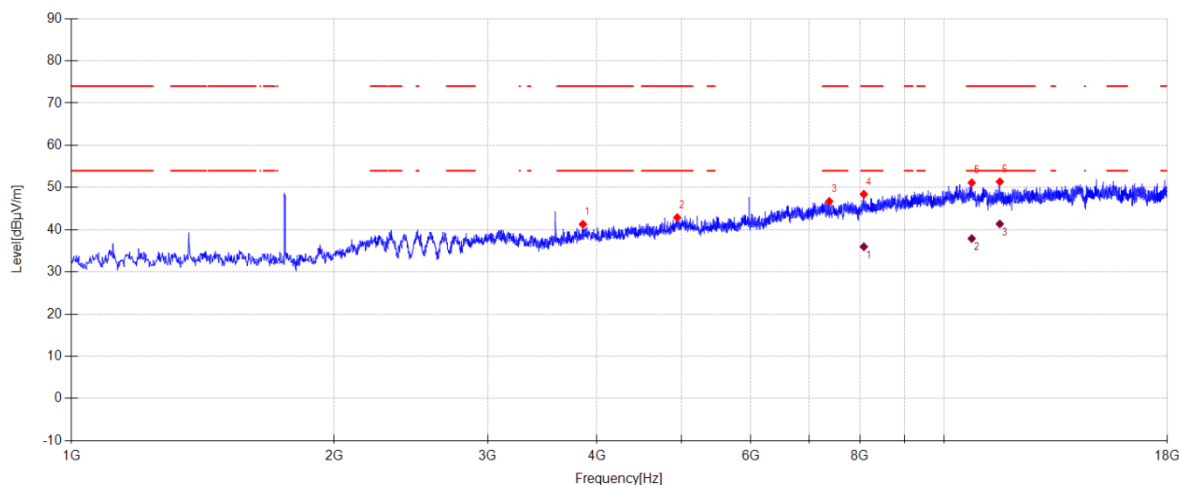
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11650.500	32.87	39.55	-35.25	37.17	54.00	16.83	AV	Horizontal
2	12362.800	33.82	39.74	-34.64	38.92	54.00	15.08	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\6
Memo: Sample Number: S26072701-001



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	3854.300	50.68	31.51	-40.90	41.29	74.00	32.71	PK	Vertical
2	4942.300	50.19	33.67	-40.99	42.87	74.00	31.13	PK	Vertical
3	7380.100	49.16	37.28	-39.72	46.72	74.00	27.28	PK	Vertical
4	8085.600	49.34	37.90	-38.83	48.41	74.00	25.59	PK	Vertical
5	10746.100	46.49	40.00	-35.36	51.13	74.00	22.87	PK	Vertical
6	11572.300	46.72	39.66	-35.00	51.38	74.00	22.62	PK	Vertical

Final Data List

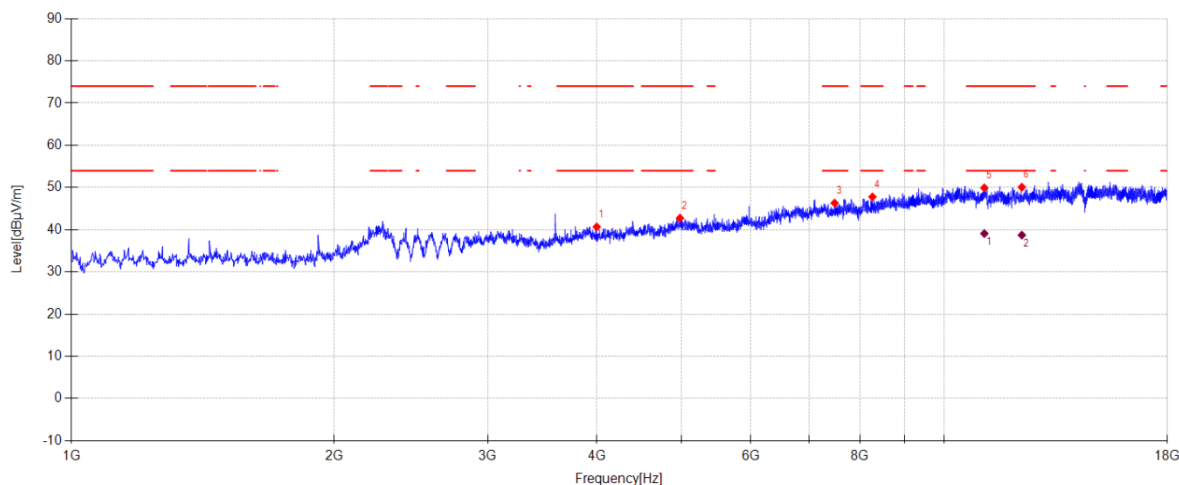
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8085.600	36.90	37.90	-38.83	35.97	54.00	18.03	AV	Vertical
2	10746.100	33.26	40.00	-35.36	37.90	54.00	16.10	AV	Vertical
3	11572.300	36.71	39.66	-35.00	41.37	54.00	12.63	AV	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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2437MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\7
Memo: Sample Number: S26072701-001



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	3997.100	50.49	31.61	-41.43	40.67	74.00	33.33	PK	Horizontal
2	4978.000	49.70	33.81	-40.77	42.74	74.00	31.26	PK	Horizontal
3	7485.500	48.76	37.10	-39.55	46.31	74.00	27.69	PK	Horizontal
4	8270.900	48.80	37.94	-38.96	47.78	74.00	26.22	PK	Horizontal
5	11108.200	45.13	39.72	-34.93	49.92	74.00	24.08	PK	Horizontal
6	12264.200	45.44	39.84	-35.20	50.08	74.00	23.92	PK	Horizontal

Final Data List

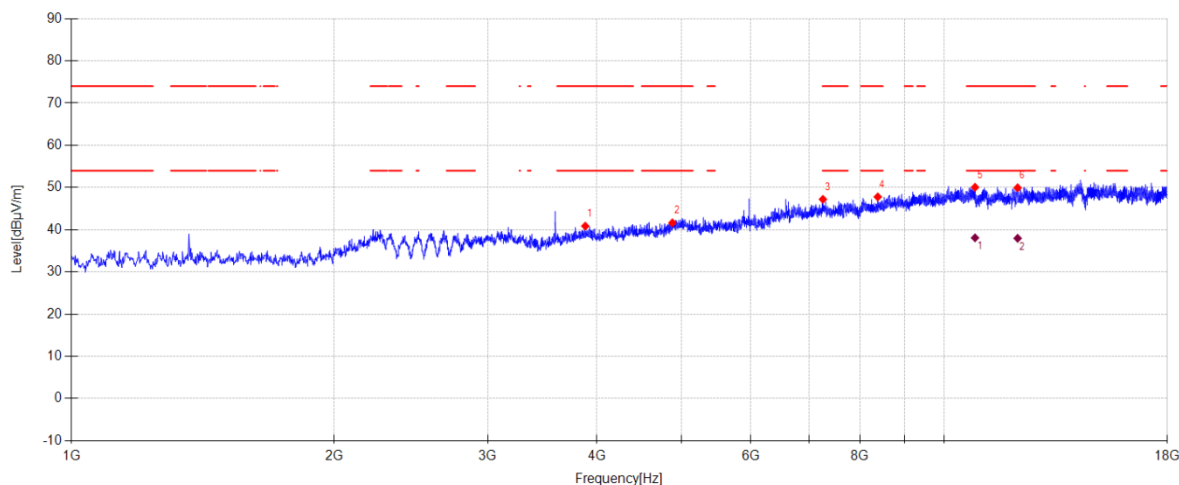
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11108.200	34.30	39.72	-34.93	39.09	54.00	14.91	AV	Horizontal
2	12264.200	34.09	39.84	-35.20	38.73	54.00	15.27	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2437MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\8
Memo: Sample Number: S26072701-001



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	3878.100	50.15	31.56	-40.85	40.86	74.00	33.14	PK	Vertical
2	4879.400	49.44	33.46	-41.27	41.63	74.00	32.37	PK	Vertical
3	7257.700	49.46	37.78	-40.04	47.20	74.00	26.80	PK	Vertical
4	8386.500	48.73	38.07	-39.02	47.78	74.00	26.22	PK	Vertical
5	10839.600	45.50	39.96	-35.40	50.06	74.00	23.94	PK	Vertical
6	12128.200	44.91	39.90	-34.88	49.93	74.00	24.07	PK	Vertical

Final Data List

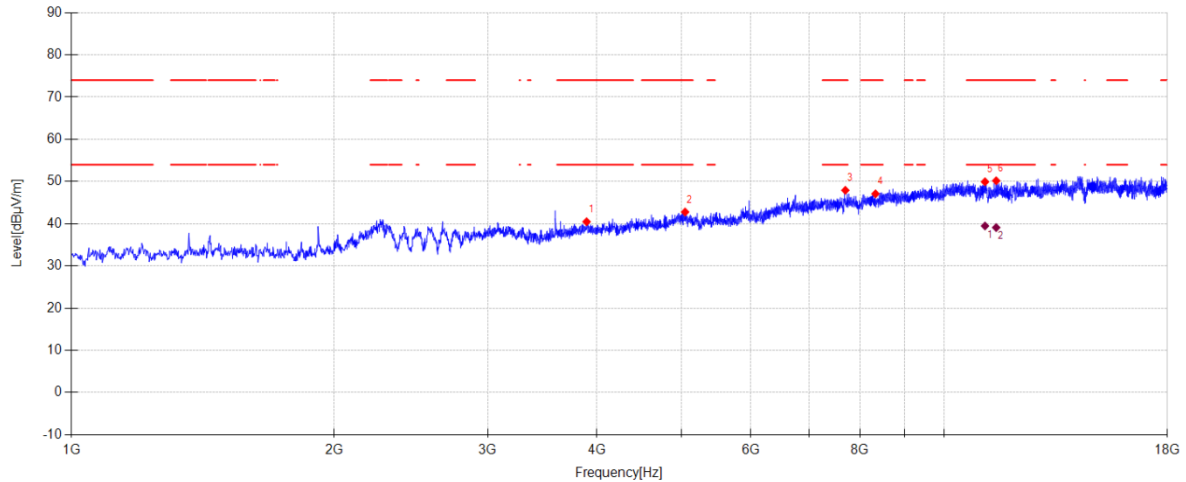
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10839.600	33.52	39.96	-35.40	38.08	54.00	15.92	AV	Vertical
2	12128.200	32.95	39.90	-34.88	37.97	54.00	16.03	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2462MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\9
Memo: Sample Number: S26072701-001



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	3891.700	49.71	31.58	-40.82	40.47	74.00	33.53	PK	Horizontal
2	5046.000	49.68	33.99	-40.90	42.77	74.00	31.23	PK	Horizontal
3	7699.700	49.37	37.30	-38.75	47.92	74.00	26.08	PK	Horizontal
4	8337.200	48.15	38.00	-39.06	47.09	74.00	26.91	PK	Horizontal
5	11128.600	45.15	39.76	-34.98	49.93	74.00	24.07	PK	Horizontal
6	11461.800	45.93	39.88	-35.63	50.18	74.00	23.82	PK	Horizontal

Final Data List

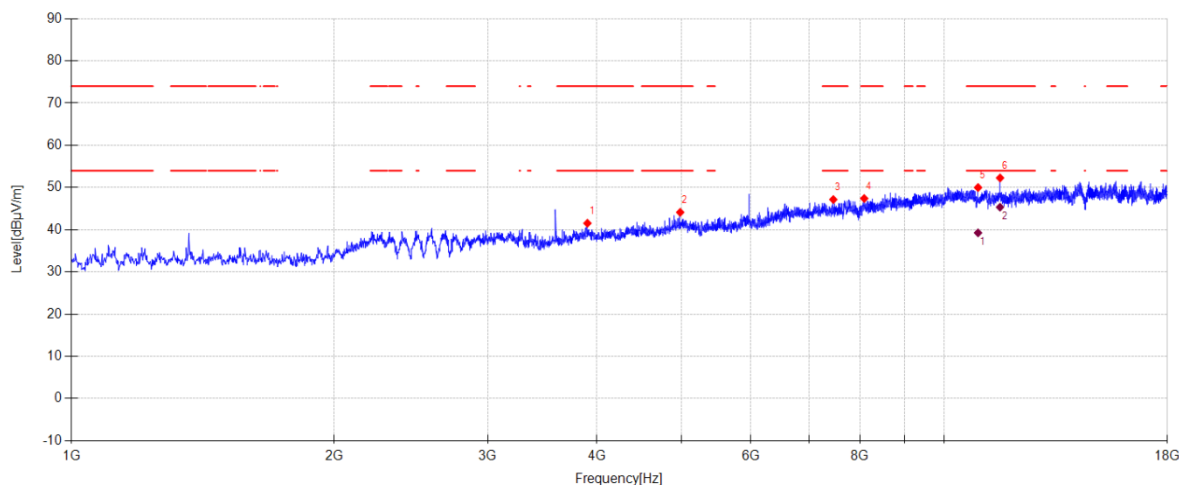
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	11128.600	34.69	39.76	-34.98	39.47	54.00	14.53	AV	Horizontal
2	11461.800	34.84	39.88	-35.63	39.09	54.00	14.91	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TTX MIMO N20 2462MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\10
Memo: Sample Number: S26072701-001



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	3900.200	50.73	31.60	-40.80	41.53	74.00	32.47	PK	Vertical
2	4981.400	51.05	33.83	-40.75	44.13	74.00	29.87	PK	Vertical
3	7460.000	49.65	37.10	-39.60	47.15	74.00	26.85	PK	Vertical
4	8092.400	48.27	37.90	-38.76	47.41	74.00	26.59	PK	Vertical
5	10926.300	45.89	39.85	-35.75	49.99	74.00	24.01	PK	Vertical
6	11579.100	47.58	39.64	-34.95	52.27	74.00	21.73	PK	Vertical

Final Data List

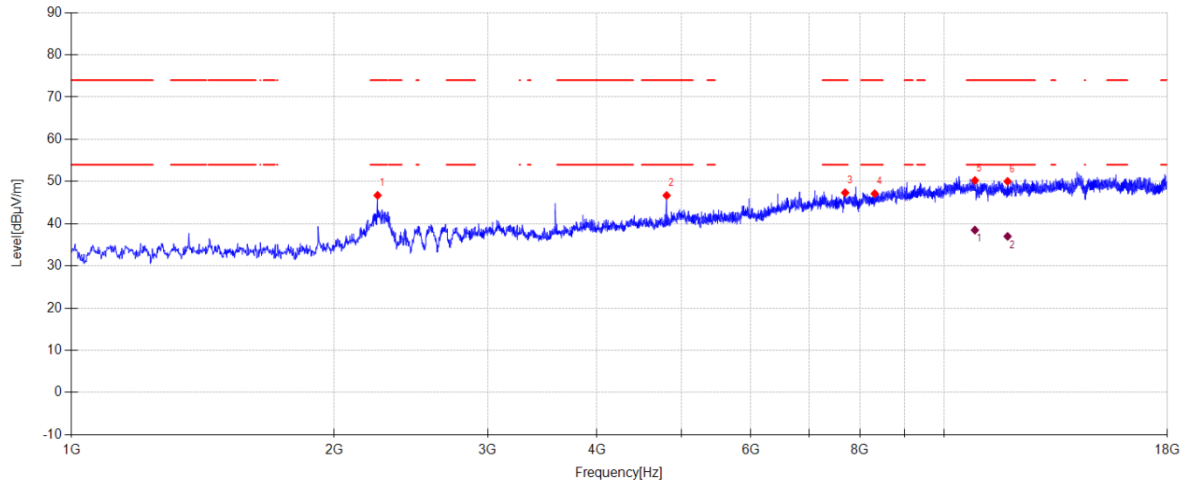
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10926.300	35.16	39.85	-35.75	39.26	54.00	14.74	AV	Vertical
2	11578.739	40.65	39.64	-34.95	45.34	54.00	8.66	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU0 AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\1
Memo: Sample Number: S26072701-001

**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	2242.700	58.67	28.10	-40.05	46.72	74.00	27.28	PK	Horizontal
2	4806.300	54.76	33.23	-41.30	46.69	74.00	27.31	PK	Horizontal
3	7696.300	48.81	37.30	-38.77	47.34	74.00	26.66	PK	Horizontal
4	8320.200	48.19	38.00	-39.07	47.12	74.00	26.88	PK	Horizontal
5	10836.200	45.66	39.96	-35.38	50.24	74.00	23.76	PK	Horizontal
6	11812.000	46.15	39.51	-35.63	50.03	74.00	23.97	PK	Horizontal

Final Data List

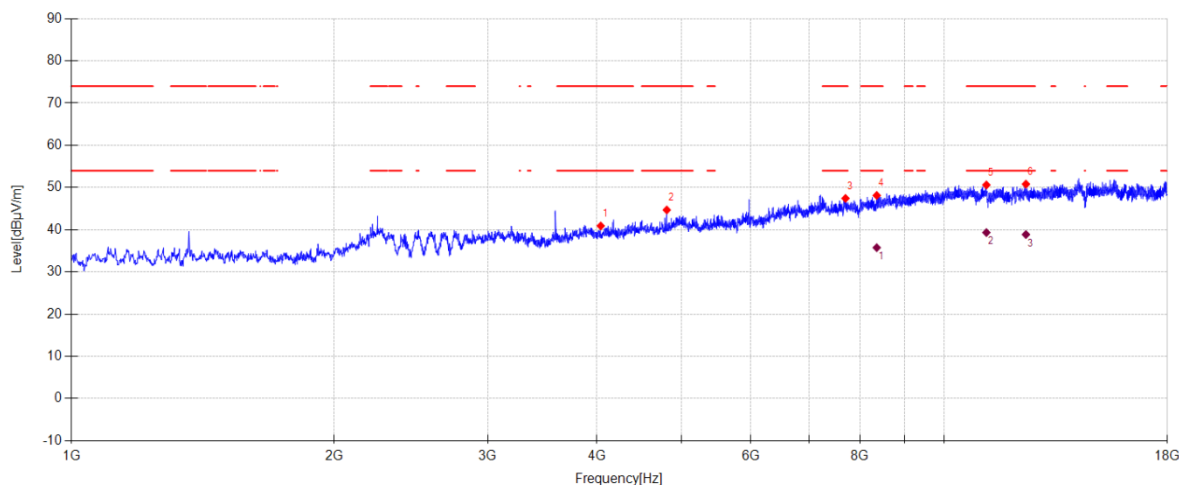
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	10836.200	33.91	39.96	-35.38	38.49	54.00	15.51	AV	Horizontal
2	11812.000	33.12	39.51	-35.63	37.00	54.00	17.00	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU0 AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\2
Memo: Sample Number: S26072701-001

**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	4039.600	50.47	31.60	-41.17	40.90	74.00	33.10	PK	Vertical
2	4808.000	52.75	33.23	-41.30	44.68	74.00	29.32	PK	Vertical
3	7703.100	48.87	37.31	-38.76	47.42	74.00	26.58	PK	Vertical
4	8364.400	49.13	38.03	-39.04	48.12	74.00	25.88	PK	Vertical
5	11169.400	45.84	39.84	-35.08	50.60	74.00	23.40	PK	Vertical
6	12396.800	45.47	39.70	-34.37	50.80	74.00	23.20	PK	Vertical

Final Data List

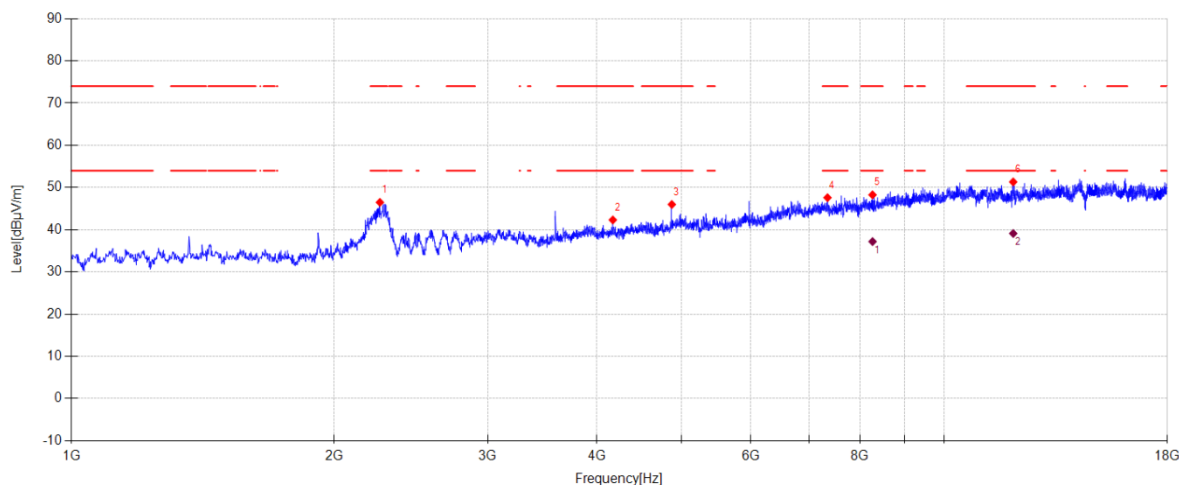
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8364.400	36.76	38.03	-39.04	35.75	54.00	18.25	AV	Vertical
2	11169.400	34.57	39.84	-35.08	39.33	54.00	14.67	AV	Vertical
3	12396.800	33.54	39.70	-34.37	38.87	54.00	15.13	AV	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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU4 AX20 2437MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\3
Memo: Sample Number: S26072701-001

**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	2256.300	58.43	28.10	-40.05	46.48	74.00	27.52	PK	Horizontal
2	4170.500	51.60	31.78	-41.07	42.31	74.00	31.69	PK	Horizontal
3	4872.600	53.81	33.45	-41.27	45.99	74.00	28.01	PK	Horizontal
4	7346.100	49.87	37.42	-39.69	47.60	74.00	26.40	PK	Horizontal
5	8272.600	49.28	37.95	-38.97	48.26	74.00	25.74	PK	Horizontal
6	11988.800	46.13	39.78	-34.59	51.32	74.00	22.68	PK	Horizontal

Final Data List

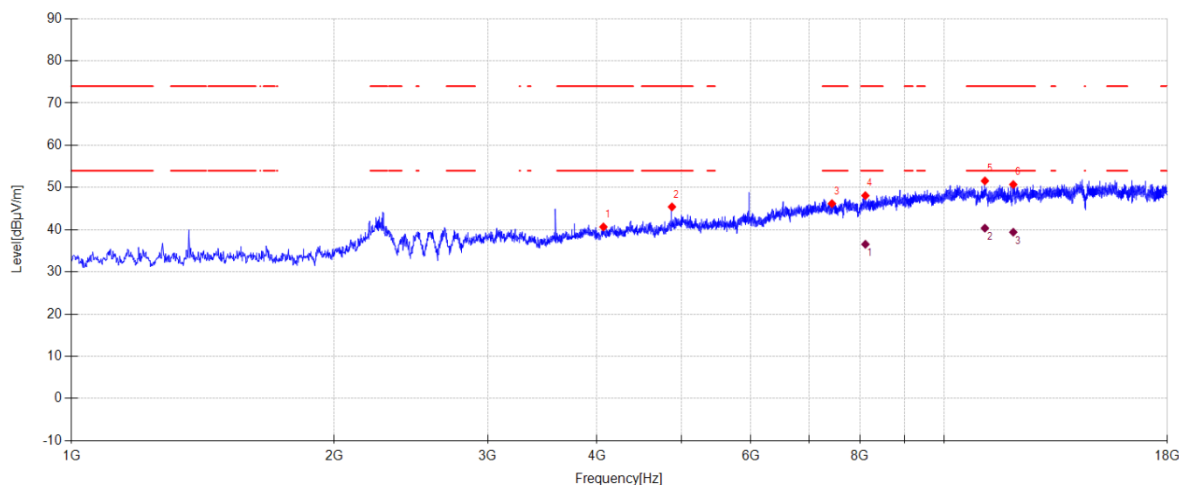
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8272.600	38.22	37.95	-38.97	37.20	54.00	16.80	AV	Horizontal
2	11988.800	33.92	39.78	-34.59	39.11	54.00	14.89	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU4 AX20 2437MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU4
Memo: Sample Number: S26072701-001



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	4068.500	50.03	31.60	-40.97	40.66	74.00	33.34	PK	Vertical
2	4874.300	53.23	33.45	-41.27	45.41	74.00	28.59	PK	Vertical
3	7432.800	48.71	37.13	-39.66	46.18	74.00	27.82	PK	Vertical
4	8117.900	48.85	37.90	-38.67	48.08	74.00	25.92	PK	Vertical
5	11126.900	46.80	39.75	-34.98	51.57	74.00	22.43	PK	Vertical
6	11990.500	45.50	39.78	-34.57	50.71	74.00	23.29	PK	Vertical

Final Data List

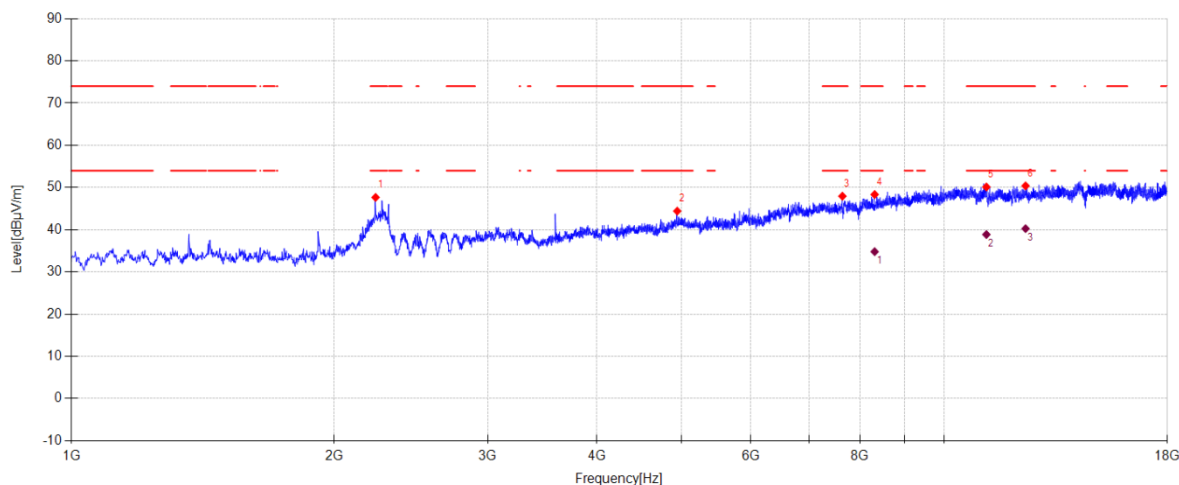
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8117.900	37.32	37.90	-38.67	36.55	54.00	17.45	AV	Vertical
2	11126.900	35.60	39.75	-34.98	40.37	54.00	13.63	AV	Vertical
3	11990.500	34.20	39.78	-34.57	39.41	54.00	14.59	AV	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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU8 AX20 2462MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\5
Memo: Sample Number: S26072701-001

**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	2230.800	59.60	28.10	-40.04	47.66	74.00	26.34	PK	Horizontal
2	4942.300	51.73	33.67	-40.99	44.41	74.00	29.59	PK	Horizontal
3	7640.200	49.75	37.28	-39.09	47.94	74.00	26.06	PK	Horizontal
4	8318.500	49.42	38.00	-39.08	48.34	74.00	25.66	PK	Horizontal
5	11169.400	45.36	39.84	-35.08	50.12	74.00	23.88	PK	Horizontal
6	12384.900	45.13	39.72	-34.47	50.38	74.00	23.62	PK	Horizontal

Final Data List

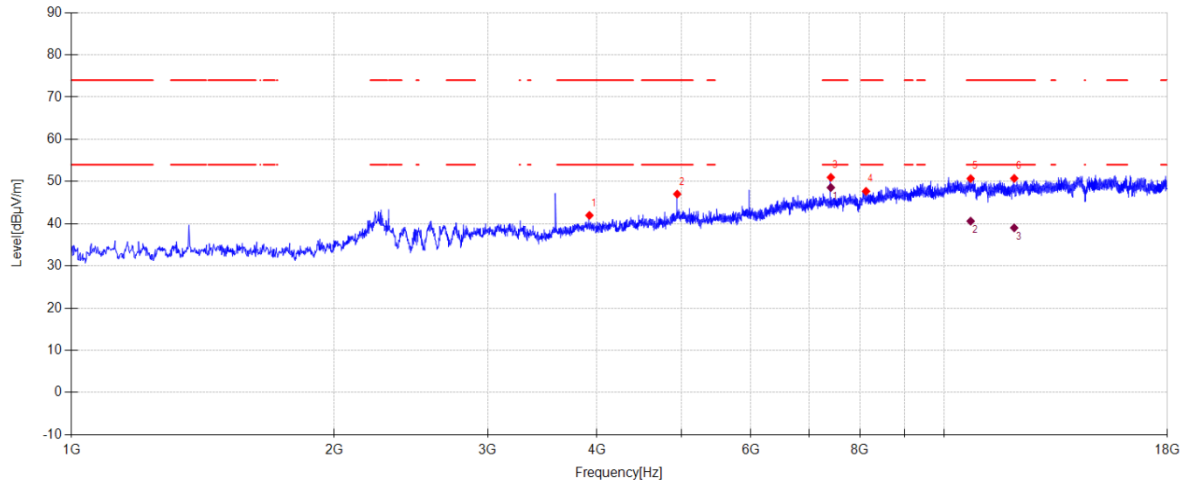
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	8318.500	35.88	38.00	-39.08	34.80	54.00	19.20	AV	Horizontal
2	11169.400	34.10	39.84	-35.08	38.86	54.00	15.14	AV	Horizontal
3	12384.900	35.01	39.72	-34.47	40.26	54.00	13.74	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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: MIMO TX RU8 AX20 2462MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\6
Memo: Sample Number: S26072701-001

**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	3920.600	51.26	31.64	-40.93	41.97	74.00	32.03	PK	Vertical
2	4942.300	54.34	33.67	-40.99	47.02	74.00	26.98	PK	Vertical
3	7410.700	53.51	37.18	-39.71	50.98	74.00	23.02	PK	Vertical
4	8131.500	48.45	37.90	-38.67	47.68	74.00	26.32	PK	Vertical
5	10715.500	46.17	40.00	-35.48	50.69	74.00	23.31	PK	Vertical
6	12019.400	45.43	39.82	-34.51	50.74	74.00	23.26	PK	Vertical

Final Data List

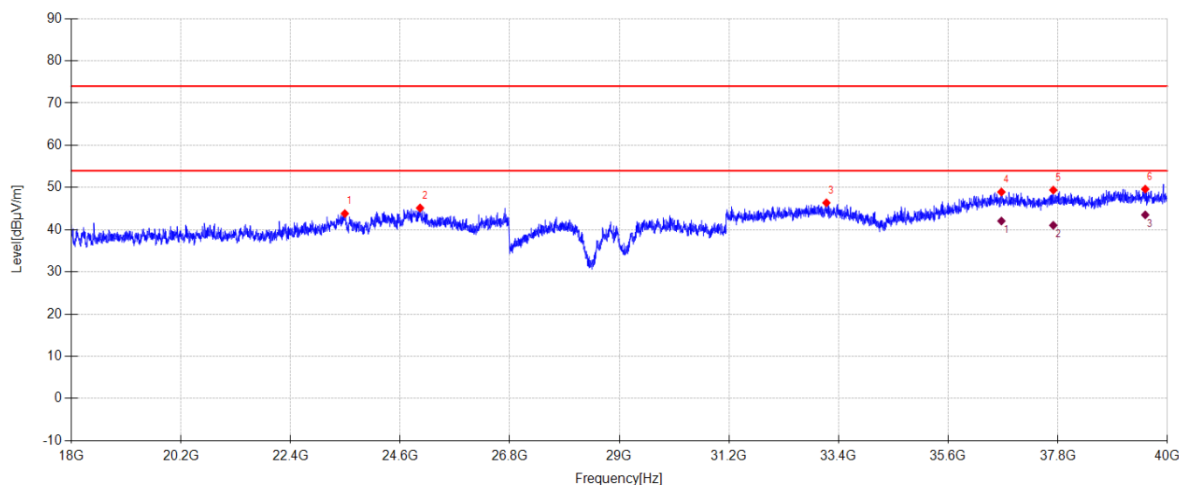
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7410.700	51.09	37.18	-39.71	48.56	54.00	5.44	AV	Vertical
2	10715.500	36.09	40.00	-35.48	40.61	54.00	13.39	AV	Vertical
3	12019.400	33.71	39.82	-34.51	39.02	54.00	14.98	AV	Vertical

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: 2026-08-05 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\43
Memo: Sample Number: S26072701-001



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	23489.928	50.72	39.20	4.70	43.82	74.00	30.18	PK	Horizontal
2	24999.390	50.64	39.60	4.75	45.15	74.00	28.85	PK	Horizontal
3	33156.391	47.53	41.66	5.41	46.38	74.00	27.62	PK	Horizontal
4	36669.515	49.02	42.87	6.31	48.93	74.00	25.07	PK	Horizontal
5	37711.635	49.61	43.61	5.30	49.39	74.00	24.61	PK	Horizontal
6	39556.831	47.43	46.35	6.61	49.61	74.00	24.39	PK	Horizontal

Final Data List

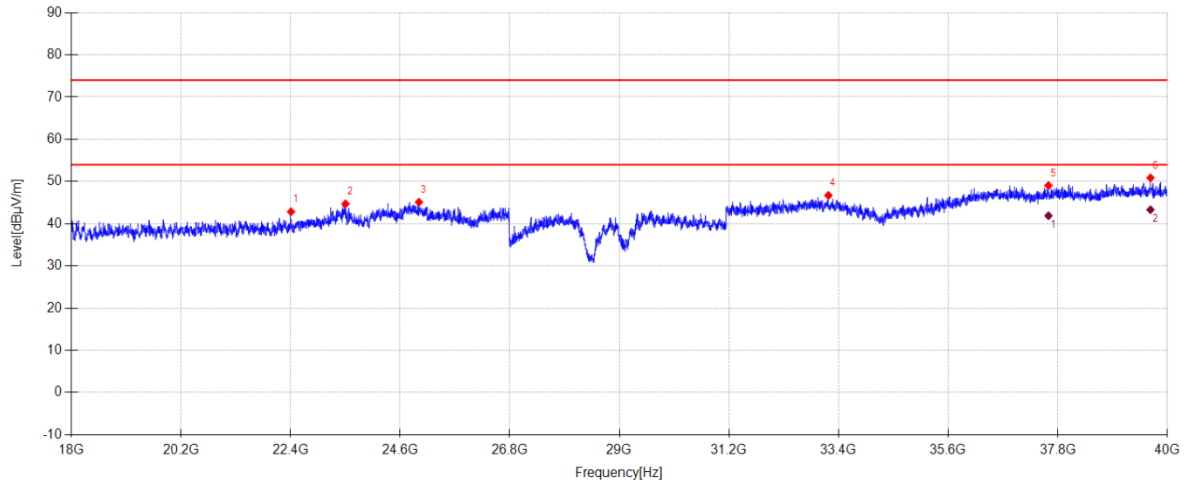
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36669.515	42.15	42.87	6.31	42.06	54.00	11.94	AV	Horizontal
2	37711.635	41.26	43.61	5.30	41.04	54.00	12.96	AV	Horizontal
3	39556.831	41.34	46.35	6.61	43.52	54.00	10.48	AV	Horizontal

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: 2026-08-05 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\44
Memo: Sample Number: S26072701-001



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	22410.206	51.19	38.83	4.15	42.85	74.00	31.15	PK	Vertical
2	23503.357	51.60	39.20	4.70	44.71	74.00	29.29	PK	Vertical
3	24977.903	50.62	39.59	4.75	45.11	74.00	28.89	PK	Vertical
4	33196.679	47.89	41.68	5.43	46.71	74.00	27.29	PK	Vertical
5	37614.943	49.51	43.51	5.19	49.05	74.00	24.95	PK	Vertical
6	39661.580	48.84	46.43	6.53	50.87	74.00	23.13	PK	Vertical

Final Data List

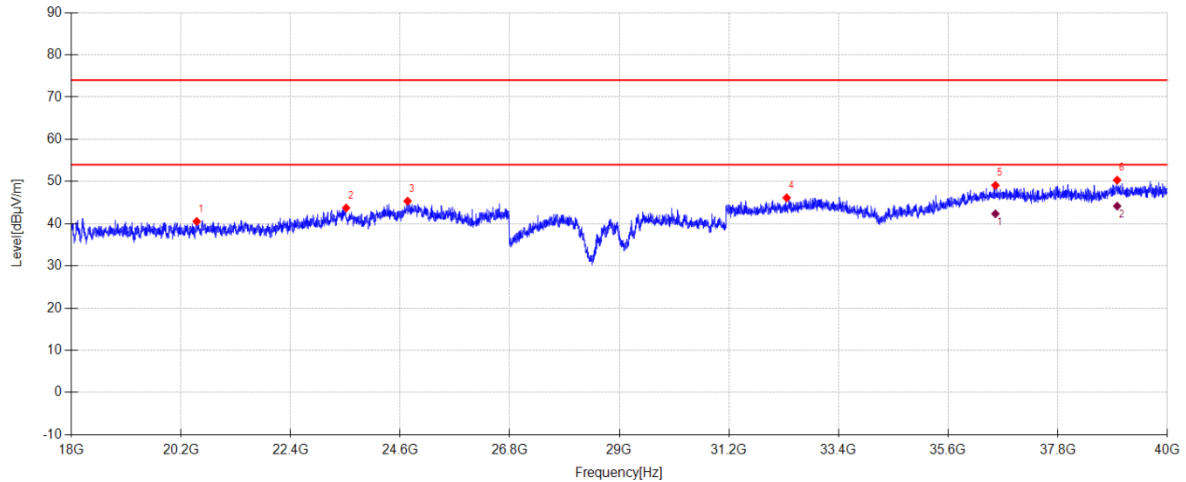
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	37614.943	42.35	43.51	5.19	41.89	54.00	12.11	AV	Vertical
2	39661.580	41.28	46.43	6.53	43.31	54.00	10.69	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-05 **Tested By:** Liang Rijing
Test Mode: TX MIMO RU0 AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\11
Memo: Sample Number: S26072701-001

**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	20516.665	48.55	38.25	3.85	40.55	74.00	33.45	PK	Horizontal
2	23516.787	50.62	39.20	4.69	43.74	74.00	30.26	PK	Horizontal
3	24749.603	51.11	39.47	4.69	45.35	74.00	28.65	PK	Horizontal
4	32358.686	47.47	41.34	5.21	46.14	74.00	27.86	PK	Horizontal
5	36548.651	49.08	42.85	6.41	49.09	74.00	24.91	PK	Horizontal
6	38992.797	47.80	45.89	6.58	50.34	74.00	23.66	PK	Horizontal

Final Data List

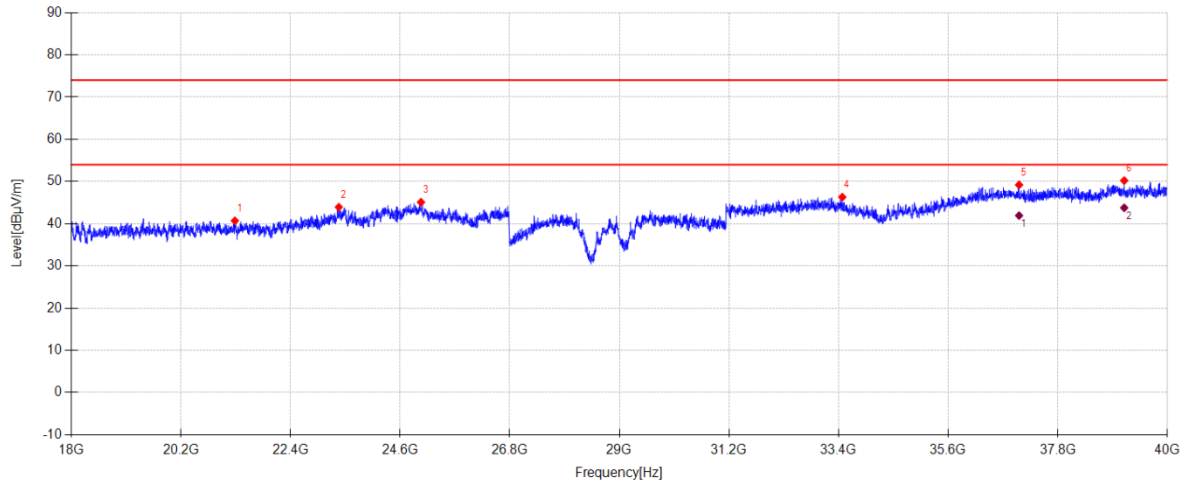
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	36548.651	42.35	42.85	6.41	42.36	54.00	11.64	AV	Horizontal
2	38992.797	41.64	45.89	6.58	44.18	54.00	9.82	AV	Horizontal

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: 2026-08-05 **Tested By:** Liang Rijing
Test Mode: TX MIMO RU0 AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G RU\12
Memo: Sample Number: S26072701-001



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	21282.139	49.21	38.43	3.80	40.70	74.00	33.30	PK	Vertical
2	23369.064	51.01	39.23	4.65	43.93	74.00	30.07	PK	Vertical
3	25018.191	50.60	39.59	4.75	45.10	74.00	28.90	PK	Vertical
4	33476.010	47.80	41.79	5.52	46.31	74.00	27.69	PK	Vertical
5	37024.051	49.61	42.92	5.99	49.19	74.00	24.81	PK	Vertical
6	39135.148	47.74	46.01	6.61	50.22	74.00	23.78	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	37024.051	42.35	42.92	5.99	41.93	54.00	12.07	AV	Vertical
2	39135.148	41.29	46.01	6.61	43.77	54.00	10.23	AV	Vertical

Note:

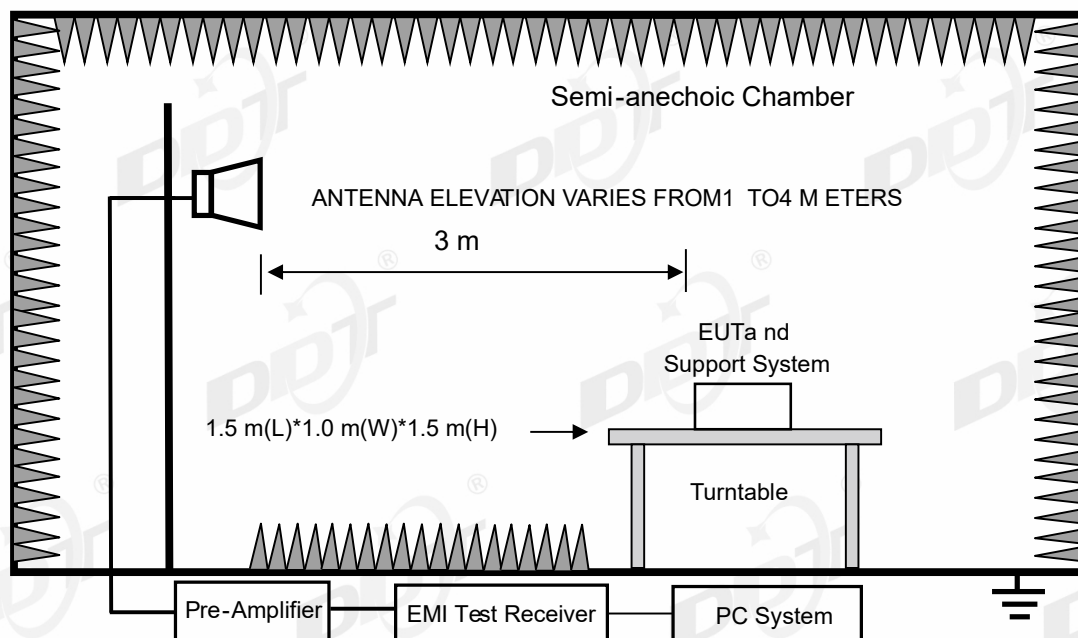
1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. 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	/

13.2. Block diagram of test setup



13.3. Limits

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

13.4. Assistant equipment used for test

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

13.5. 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.

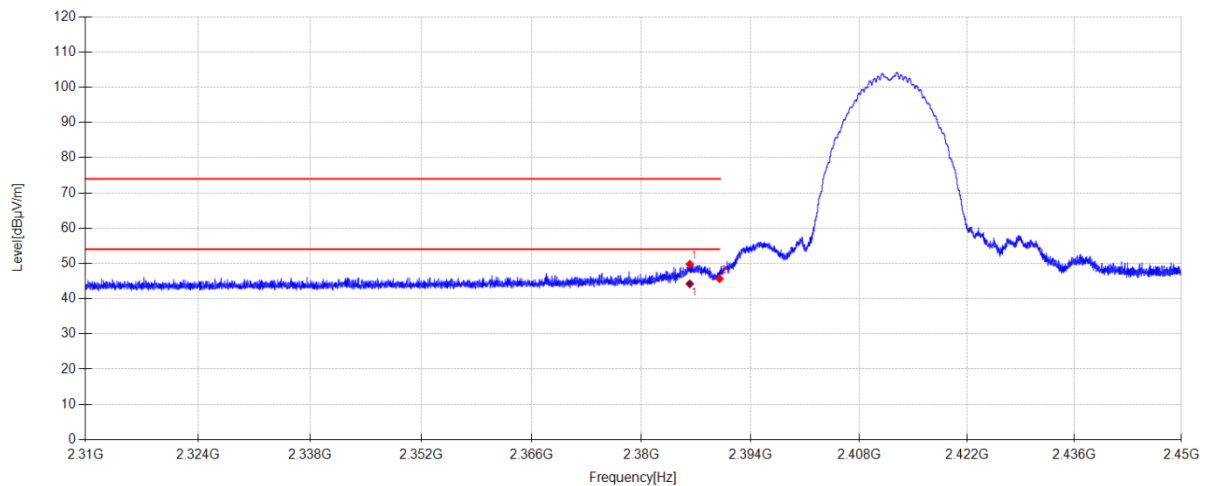
13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT1 11B 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\27
Memo: Sample Number: S26072701-001



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	2386.188	47.74	28.17	-26.15	49.76	74.00	24.24	PK	Horizontal
2	2390.000	43.61	28.18	-26.15	45.64	74.00	28.36	PK	Horizontal

Final Data List

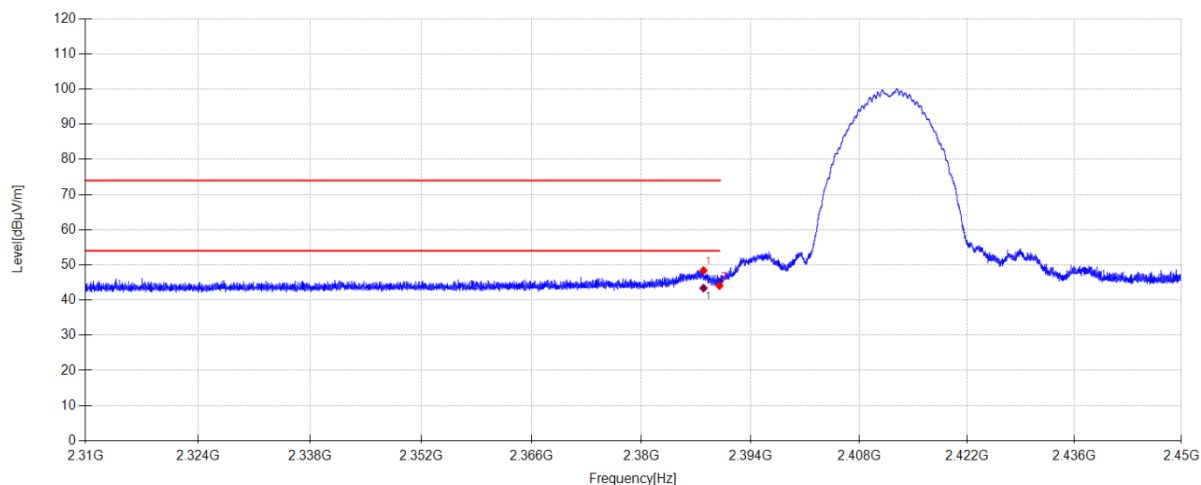
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.188	42.17	28.17	-26.15	44.19	54.00	9.81	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT1 11B 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\28
Memo: Sample Number: S26072701-001

**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	2387.952	46.36	28.18	-26.15	48.39	74.00	25.61	PK	Vertical
2	2390.000	42.07	28.18	-26.15	44.10	74.00	29.90	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	2387.952	41.37	28.18	-26.15	43.40	54.00	10.60	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:

2026-08-04

Tested By:

Liang Rijing

Test Mode:

TX ANT2 11B 2412MHz Mode

Power Supply:

DC 5V

Condition:

Temp:23.4°C;Humi:48.3%

Test Site:

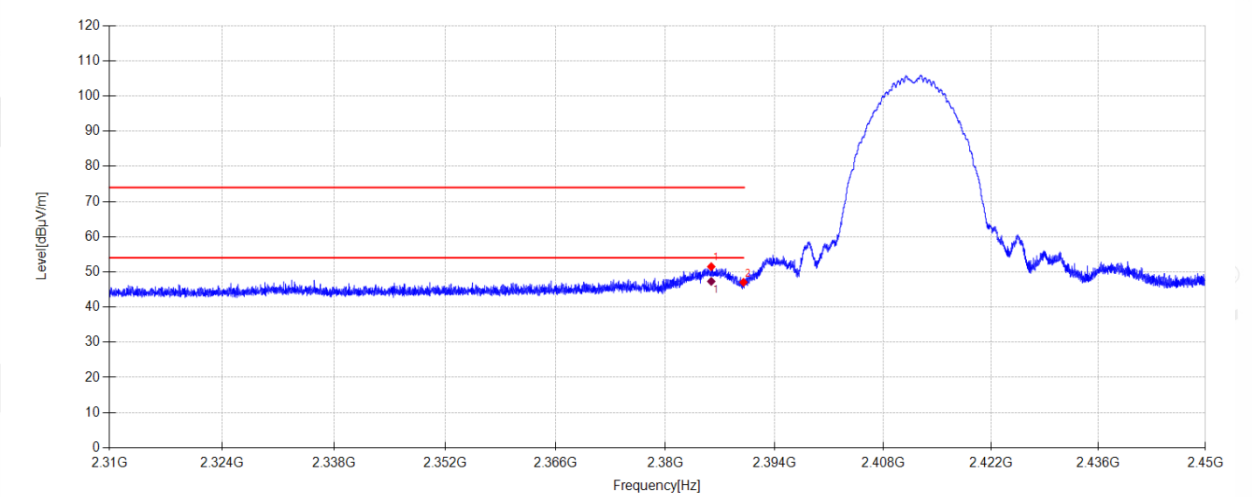
4# Fully Anechoic Room

File Path:

d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\29

Memo:

Sample Number: S26072701-001



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	2385.866	49.47	28.17	-26.15	51.49	74.00	22.51	PK	Horizontal
2	2390.000	45.02	28.18	-26.15	47.05	74.00	26.95	PK	Horizontal

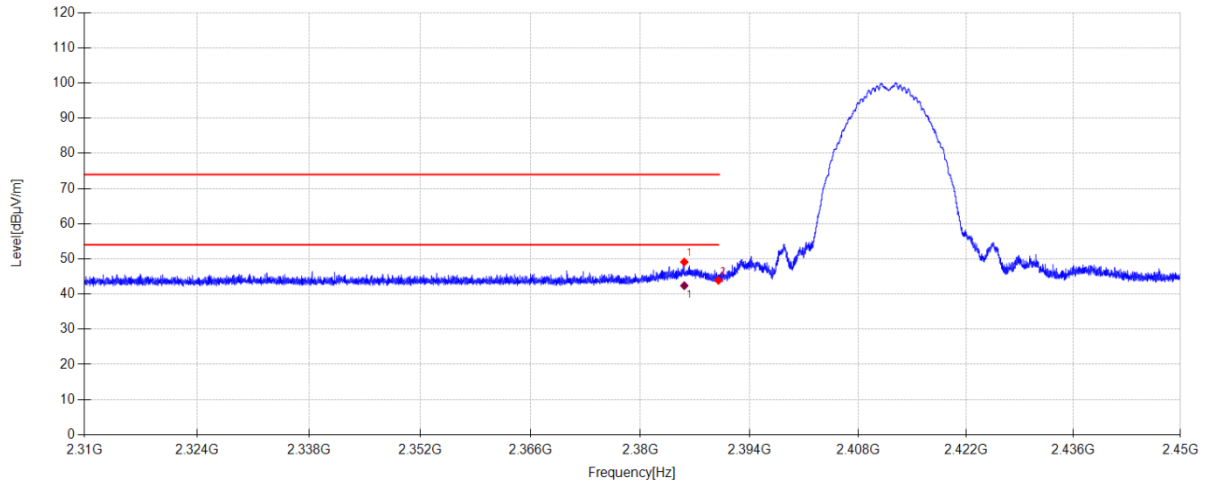
Final Data List									
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.866	45.28	28.17	-26.15	47.30	54.00	6.70	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT2 11B 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\30
Memo: Sample Number: S26072701-001

**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	2385.614	47.10	28.17	-26.15	49.12	74.00	24.88	PK	Vertical
2	2390.000	41.87	28.18	-26.15	43.90	74.00	30.10	PK	Vertical

Final Data List

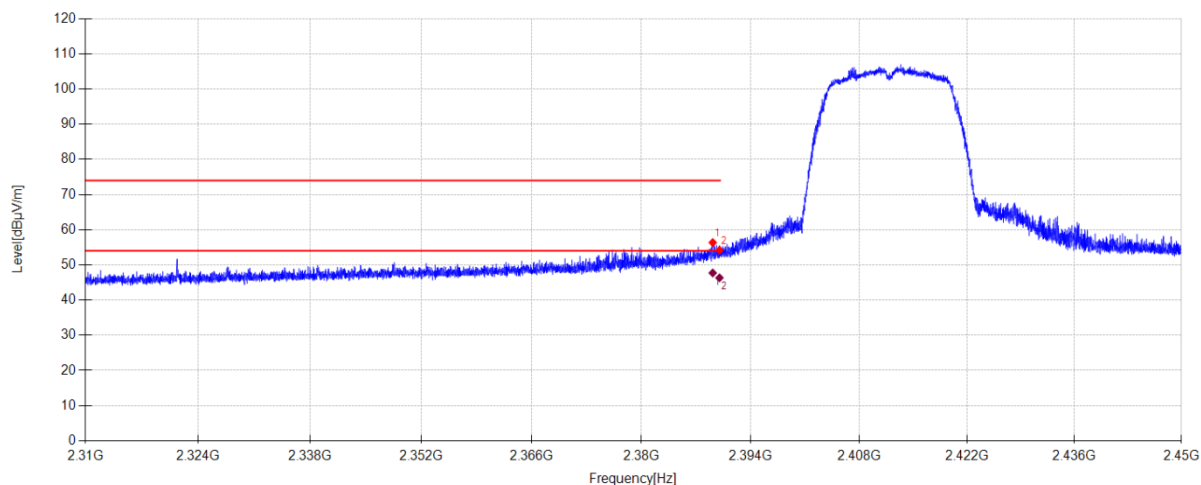
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.614	40.36	28.17	-26.15	42.38	54.00	11.62	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT1 11G 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\41
Memo: Sample Number: S26072701-001



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	2389.128	54.33	28.18	-26.15	56.36	74.00	17.64	PK	Horizontal
2	2390.000	52.15	28.18	-26.15	54.18	74.00	19.82	PK	Horizontal

Final Data List

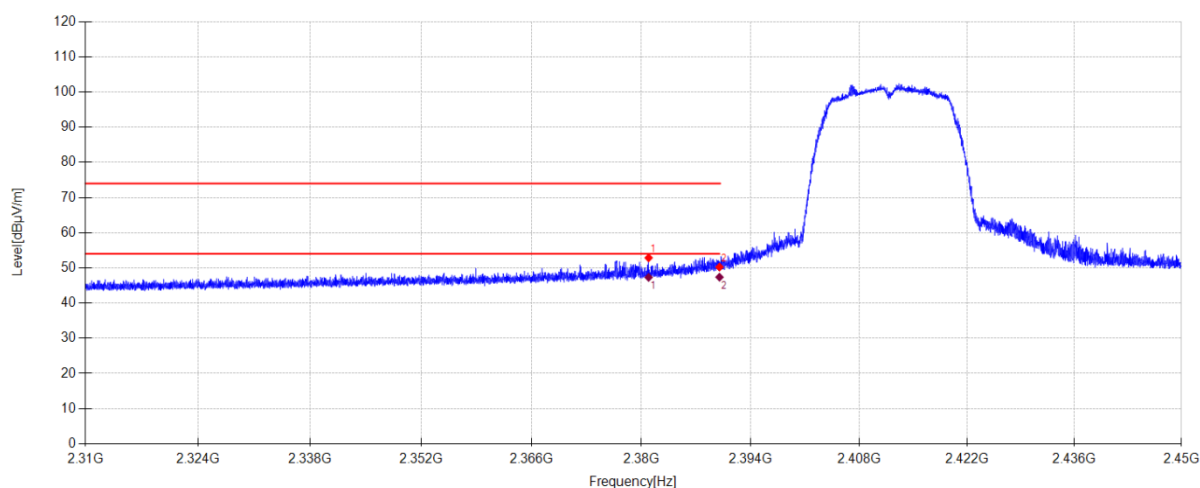
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.128	45.68	28.18	-26.15	47.71	54.00	6.29	AV	Horizontal
2	2390.000	44.29	28.18	-26.15	46.32	54.00	7.68	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT1 11G 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\42
Memo: Sample Number: S26072701-001

**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	2380.924	50.84	28.16	-26.14	52.86	74.00	21.14	PK	Vertical
2	2390.000	48.21	28.18	-26.15	50.24	74.00	23.76	PK	Vertical

Final Data List

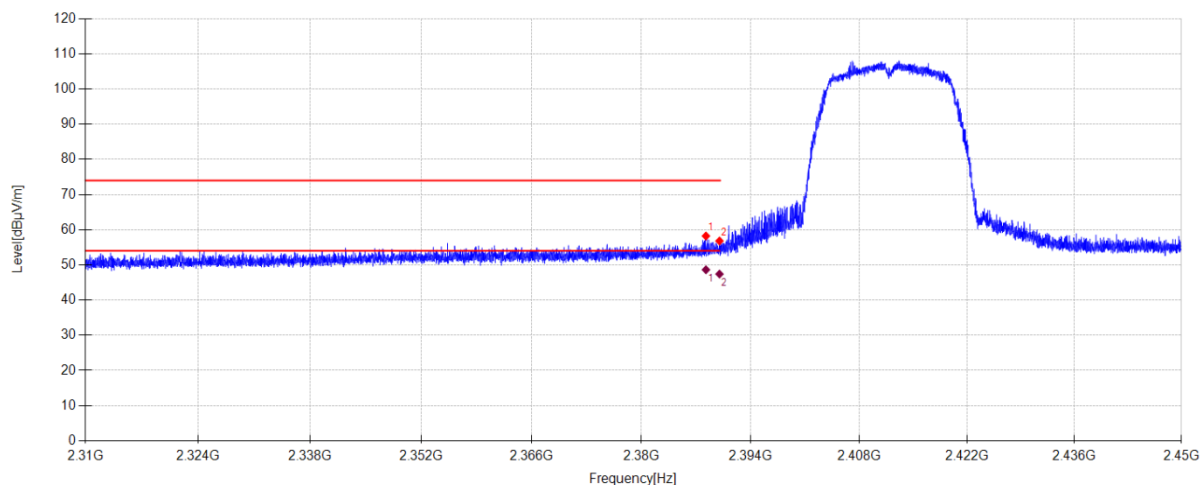
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2380.924	45.29	28.16	-26.14	47.31	54.00	6.69	AV	Vertical
2	2390.000	45.34	28.18	-26.15	47.37	54.00	6.63	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT2 11G 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\39
Memo: Sample Number: S26072701-001

**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	2388.260	56.18	28.18	-26.15	58.21	74.00	15.79	PK	Horizontal
2	2390.000	54.77	28.18	-26.15	56.80	74.00	17.20	PK	Horizontal

Final Data List

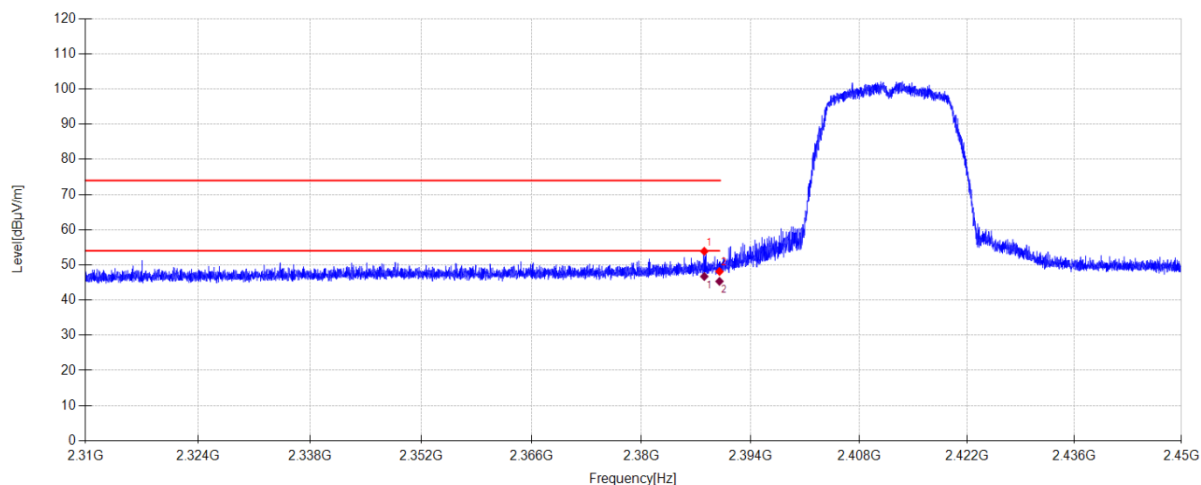
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.260	46.59	28.18	-26.15	48.62	54.00	5.38	AV	Horizontal
2	2390.000	45.37	28.18	-26.15	47.40	54.00	6.60	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX ANT2 11G 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\40
Memo: Sample Number: S26072701-001



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	2388.050	51.84	28.18	-26.15	53.87	74.00	20.13	PK	Vertical
2	2390.000	46.10	28.18	-26.15	48.13	74.00	25.87	PK	Vertical

Final Data List

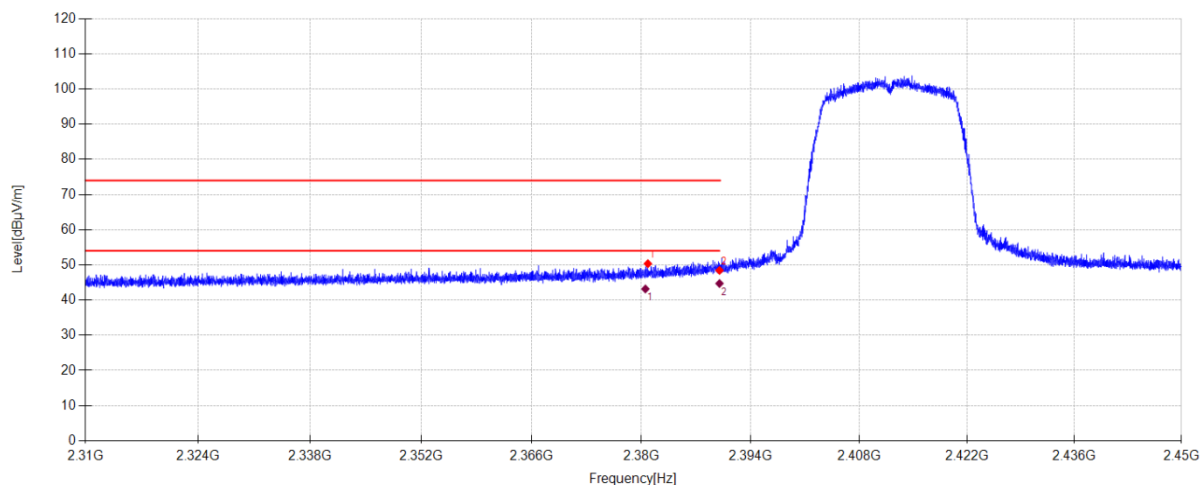
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.050	44.68	28.18	-26.15	46.71	54.00	7.29	AV	Vertical
2	2390.000	43.29	28.18	-26.15	45.32	54.00	8.68	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\11
Memo: Sample Number: S26072701-001



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	2380.826	48.33	28.16	-26.14	50.35	74.00	23.65	PK	Horizontal
2	2390.000	46.41	28.18	-26.15	48.44	74.00	25.56	PK	Horizontal

Final Data List

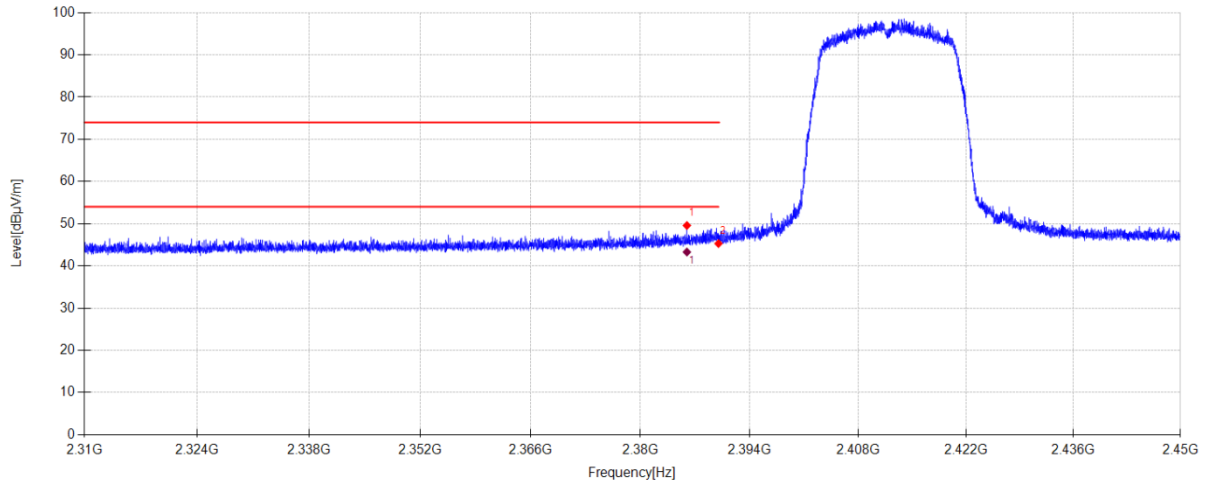
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2380.509	41.15	28.16	-26.14	43.17	54.00	10.83	AV	Horizontal
2	2390.000	42.68	28.18	-26.15	44.71	54.00	9.29	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\12
Memo: Sample Number: S26072701-001

**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	2385.950	47.56	28.17	-26.15	49.58	74.00	24.42	PK	Vertical
2	2390.000	43.27	28.18	-26.15	45.30	74.00	28.70	PK	Vertical

Final Data List

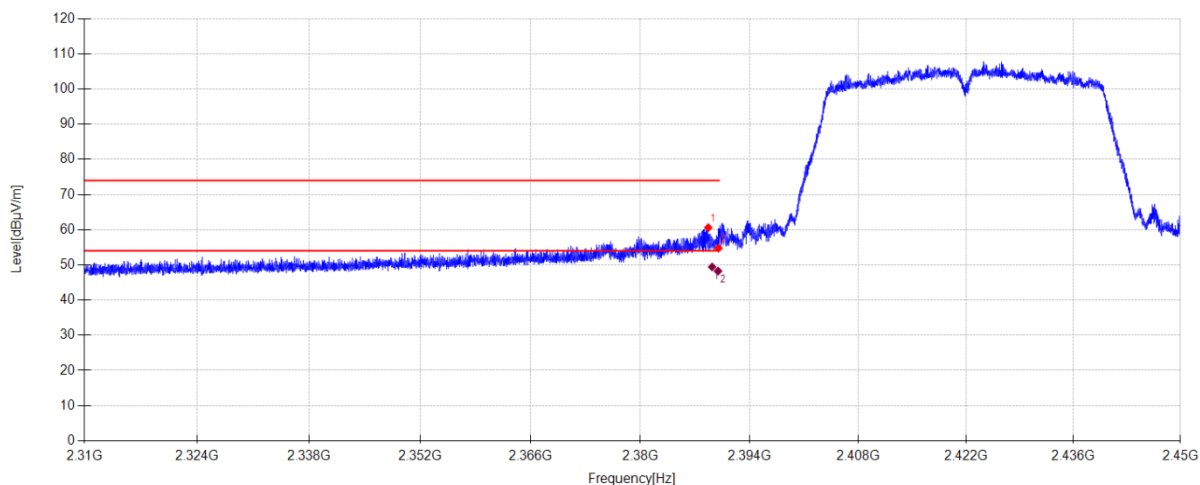
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.950	41.27	28.17	-26.15	43.29	54.00	10.71	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N40 2422MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\15
Memo: Sample Number: S26072701-001



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	2388.694	58.57	28.18	-26.15	60.60	74.00	13.40	PK	Horizontal
2	2390.000	52.72	28.18	-26.15	54.75	74.00	19.25	PK	Horizontal

Final Data List

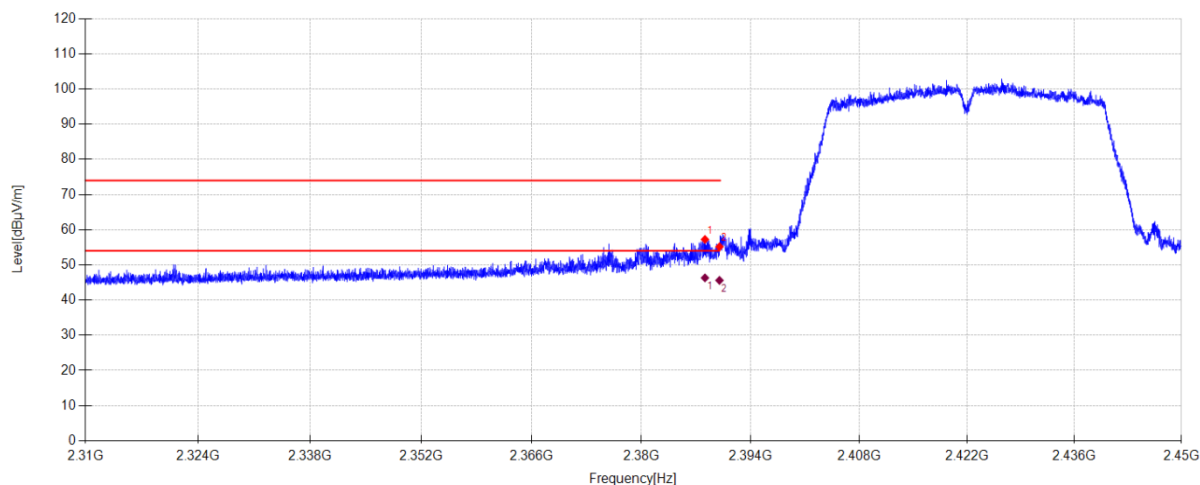
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.181	47.39	28.18	-26.15	49.42	54.00	4.58	AV	Horizontal
2	2389.939	46.21	28.18	-26.15	48.24	54.00	5.76	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO N40 2422MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\16
Memo: Sample Number: S26072701-001



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	2388.134	55.21	28.18	-26.15	57.24	74.00	16.76	PK	Vertical
2	2390.000	53.12	28.18	-26.15	55.15	74.00	18.85	PK	Vertical

Final Data List

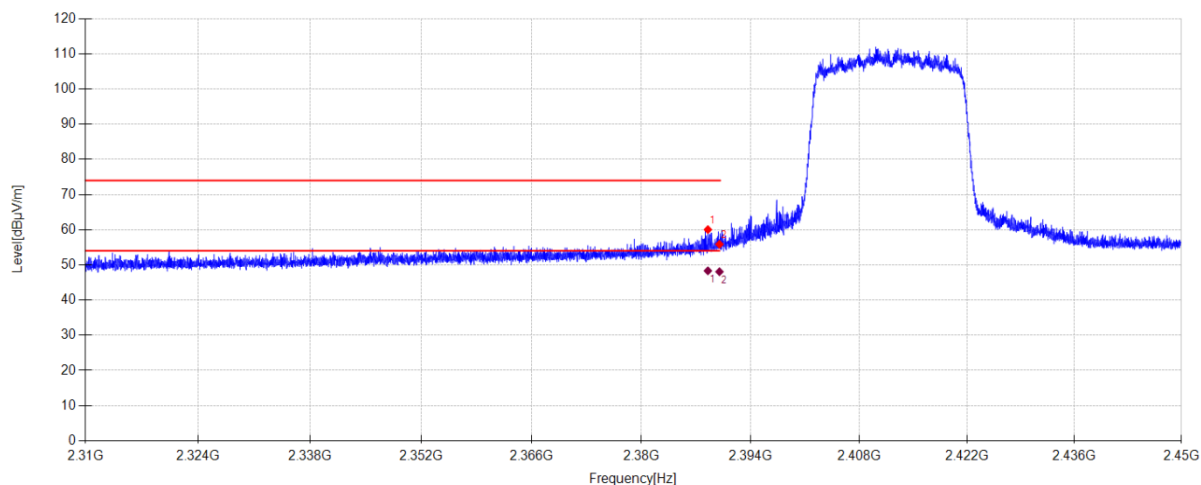
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.134	44.28	28.18	-26.15	46.31	54.00	7.69	AV	Vertical
2	2390.000	43.57	28.18	-26.15	45.60	54.00	8.40	AV	Vertical

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\19
Memo: Sample Number: S26072701-001

**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	2388.512	58.01	28.18	-26.15	60.04	74.00	13.96	PK	Horizontal
2	2390.000	53.83	28.18	-26.15	55.86	74.00	18.14	PK	Horizontal

Final Data List

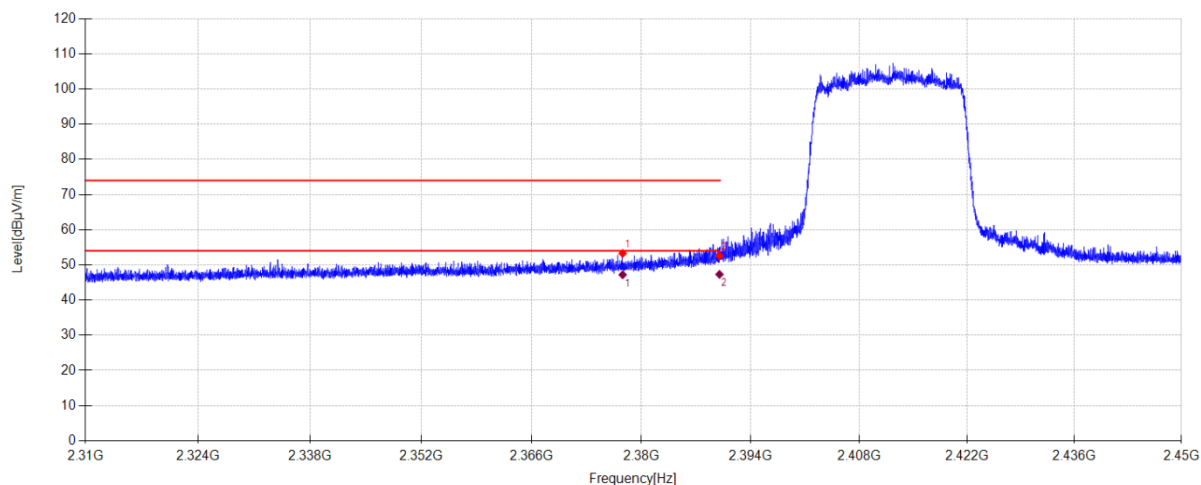
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2388.512	46.28	28.18	-26.15	48.31	54.00	5.69	AV	Horizontal
2	2390.000	46.03	28.18	-26.15	48.06	54.00	5.94	AV	Horizontal

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: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO AX20 2412MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\20
Memo: Sample Number: S26072701-001



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	2377.606	51.24	28.16	-26.14	53.26	74.00	20.74	PK	Vertical
2	2390.000	50.56	28.18	-26.15	52.59	74.00	21.41	PK	Vertical

Final Data List

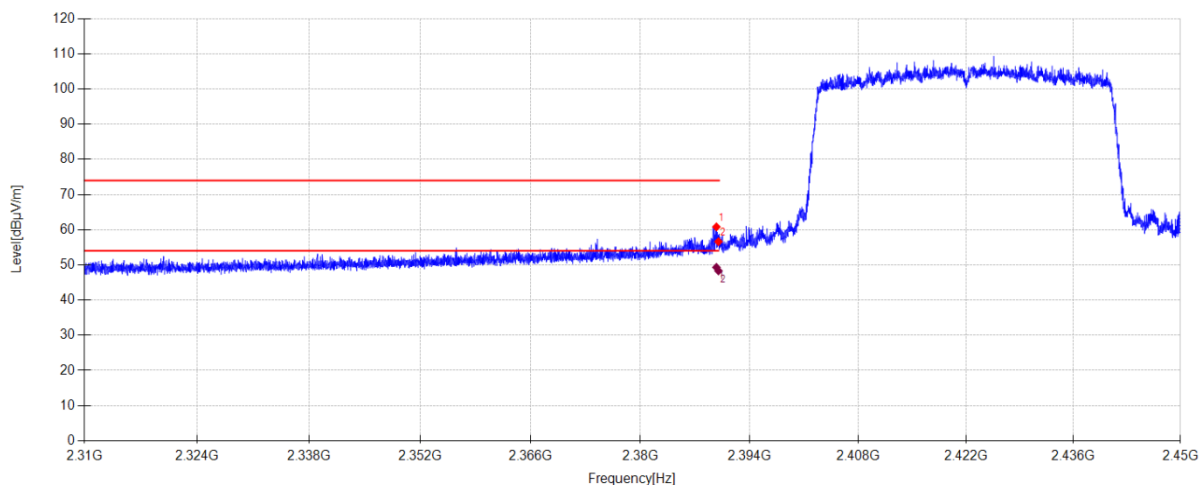
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2377.606	45.17	28.16	-26.14	47.19	54.00	6.81	AV	Vertical
2	2390.000	45.28	28.18	-26.15	47.31	54.00	6.69	AV	Vertical

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.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2026-08-04 **Tested By:** Liang Rijing
Test Mode: TX MIMO AX40 2422MHz Mode **Power Supply:** DC 5V
Condition: Temp:23.4°C;Humi:48.3% **Test Site:** 4# Fully Anechoic Room
File Path: d:\ts\2026 fcc report date\Q26072701-2E\FCC ABOVE 1G 2.4G\25
Memo: Sample Number: S26072701-001

**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	2389.730	58.77	28.18	-26.15	60.80	74.00	13.20	PK	Horizontal
2	2390.000	54.59	28.18	-26.15	56.62	74.00	17.38	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	2389.730	47.28	28.18	-26.15	49.31	54.00	4.69	AV	Horizontal
2	2390.000	46.27	28.18	-26.15	48.30	54.00	5.70	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.