

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-08-06 **Tested By:** Nan Zhong

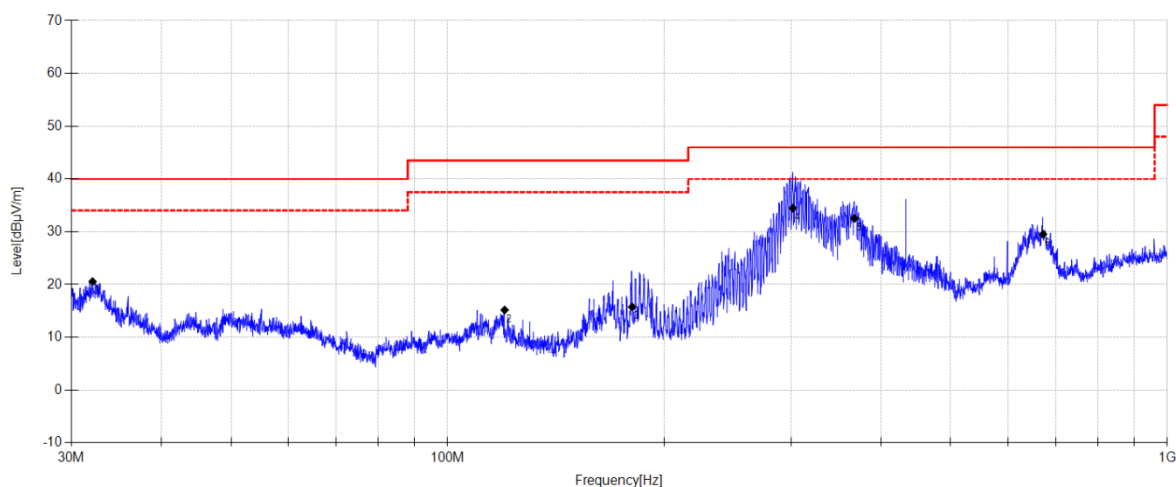
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX 11B 2462MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC BELOW 1G\20250806-171258_H

Memo: Number:S25061119-002



Final Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.111	37.69	10.19	3.77	20.55	40.00	19.45	QP	Horizontal
2	119.991	31.95	10.00	4.33	15.16	43.50	28.34	QP	Horizontal
3	180.457	32.94	9.33	4.65	15.74	43.50	27.76	QP	Horizontal
4	301.706	46.94	13.70	5.23	34.47	46.00	11.53	QP	Horizontal
5	367.412	43.12	15.33	5.49	32.51	46.00	13.49	QP	Horizontal
6	671.955	35.21	19.22	6.60	29.53	46.00	16.47	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:

2025-08-06

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

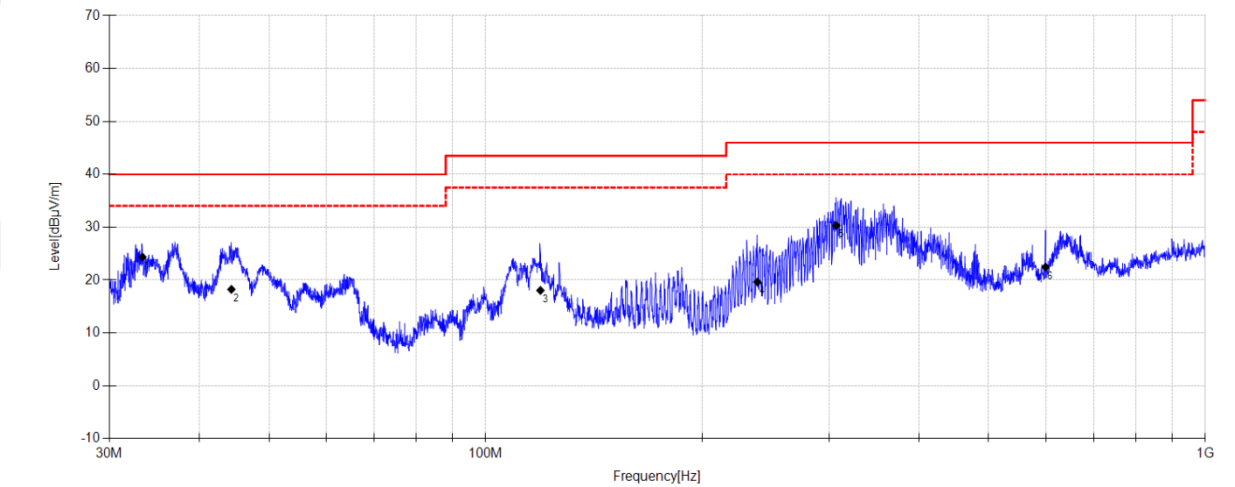
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC BELOW 1G\20250806-171345_V

Memo:

Number:S25061119-002



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	33.351	40.54	11.13	3.78	24.35	40.00	15.65	QP	Vertical
2	44.334	32.41	13.07	3.85	18.23	40.00	21.77	QP	Vertical
3	119.152	35	9.83	4.32	18.03	43.50	25.47	QP	Vertical
4	238.546	34.28	11.68	4.94	19.62	46.00	26.38	QP	Vertical
5	307.041	42.9	13.54	5.25	30.29	46.00	15.71	QP	Vertical
6	599.803	28.4	19.18	6.37	22.45	46.00	23.55	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:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

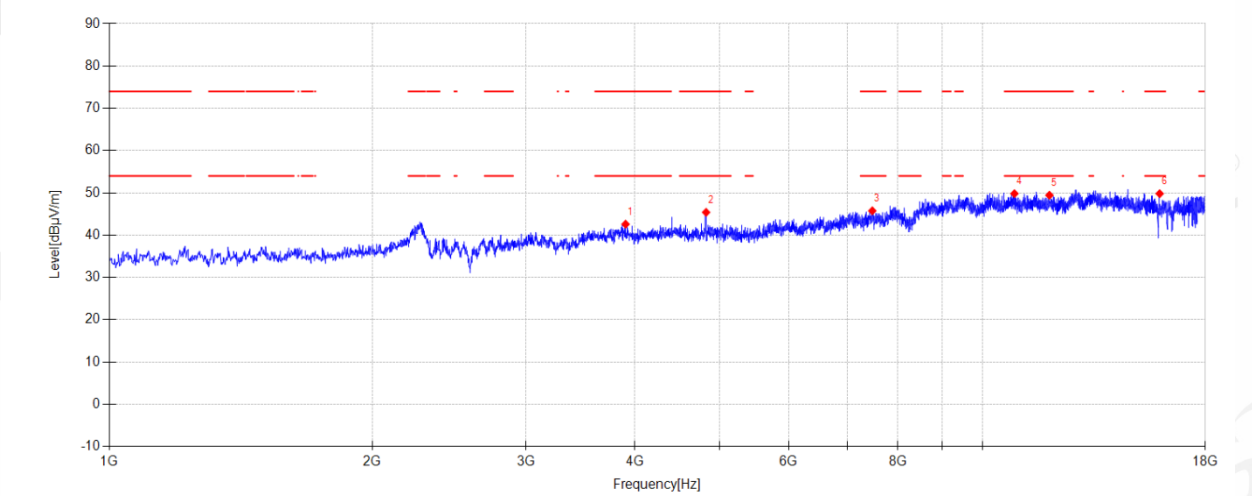
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\1

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3901.900	45.98	31.20	5.07	-39.66	42.59	74.00	31.41	PK	Horizontal
2	4825.000	46.31	33.15	5.55	-39.61	45.40	74.00	28.60	PK	Horizontal
3	7478.700	43.10	36.54	6.69	-40.57	45.76	74.00	28.24	PK	Horizontal
4	10880.400	41.50	39.32	8.07	-39.07	49.82	74.00	24.18	PK	Horizontal
5	11931.000	41.66	38.99	8.72	-39.93	49.44	74.00	24.56	PK	Horizontal
6	15958.300	41.05	38.04	10.12	-39.40	49.81	74.00	24.19	PK	Horizontal

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

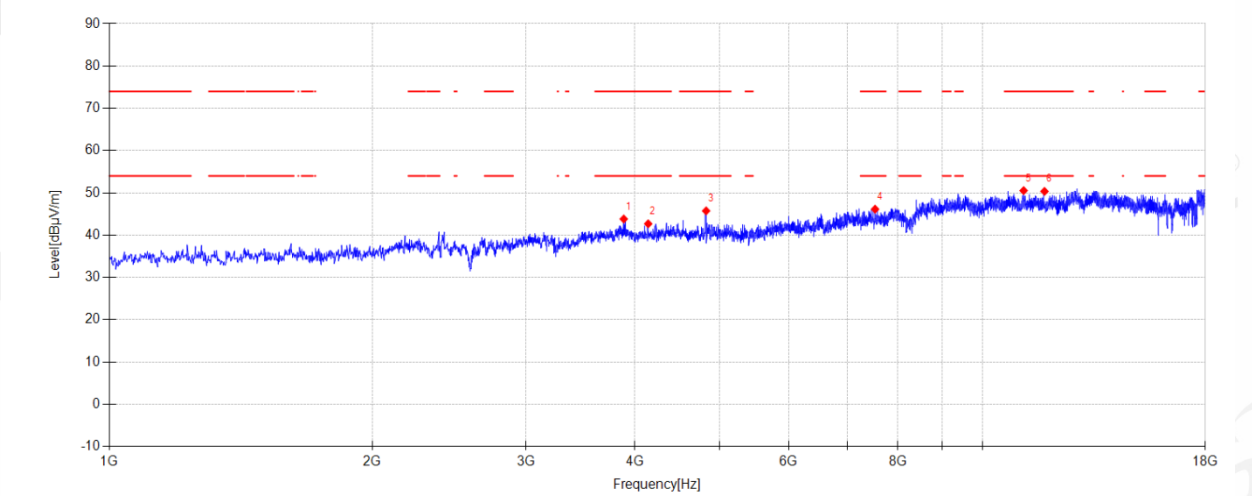
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\2

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3883.200	47.30	31.10	5.07	-39.65	43.82	74.00	30.18	PK	Vertical
2	4141.600	46.05	31.18	5.13	-39.67	42.69	74.00	31.31	PK	Vertical
3	4825.000	46.65	33.15	5.55	-39.61	45.74	74.00	28.26	PK	Vertical
4	7533.100	43.51	36.43	6.72	-40.52	46.14	74.00	27.86	PK	Vertical
5	11147.300	42.22	39.25	8.22	-39.15	50.54	74.00	23.46	PK	Vertical
6	11778.000	42.60	38.92	8.62	-39.78	50.36	74.00	23.64	PK	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2437MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

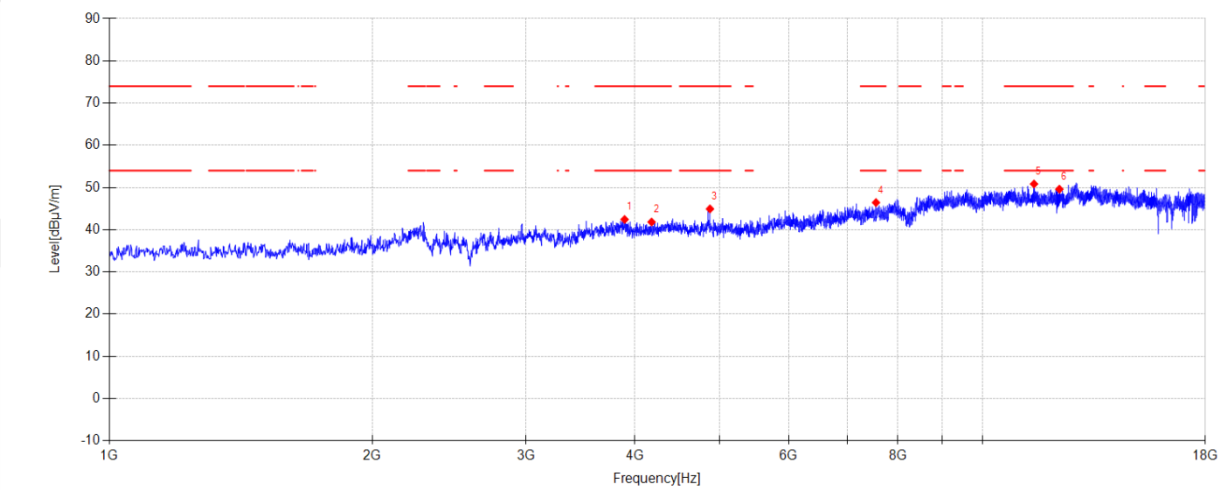
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\5

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3891.700	45.86	31.15	5.07	-39.65	42.43	74.00	31.57	PK	Horizontal
2	4179.000	45.13	31.20	5.16	-39.67	41.82	74.00	32.18	PK	Horizontal
3	4874.300	45.56	33.41	5.57	-39.61	44.93	74.00	29.07	PK	Horizontal
4	7551.800	43.80	36.40	6.73	-40.50	46.43	74.00	27.57	PK	Horizontal
5	11456.700	42.64	39.24	8.42	-39.46	50.84	74.00	23.16	PK	Horizontal
6	12248.900	41.37	39.30	8.89	-39.95	49.61	74.00	24.39	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- 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:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2437MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

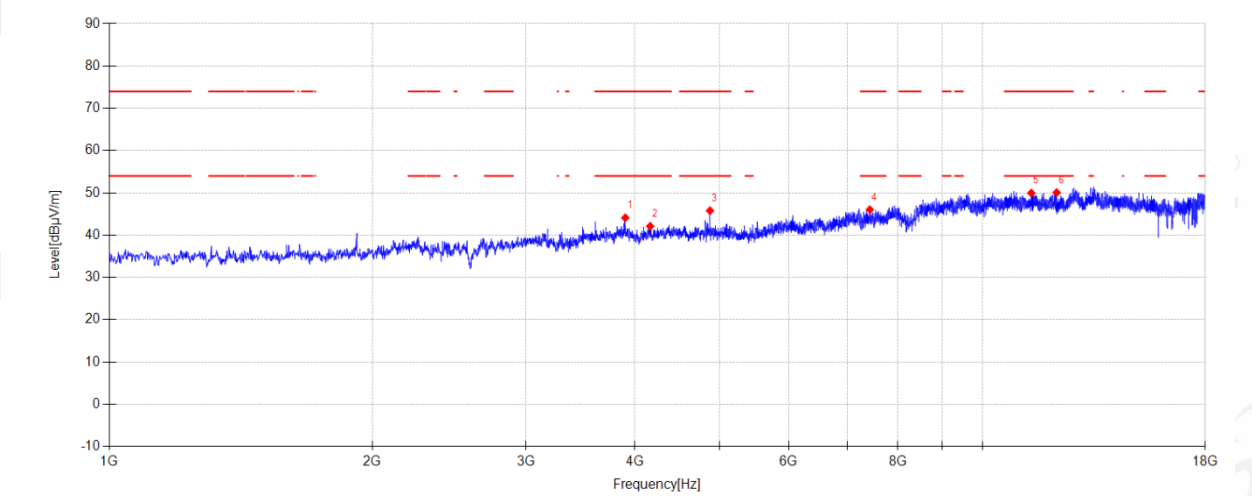
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\6

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3898.500	47.51	31.19	5.07	-39.66	44.11	74.00	29.89	PK	Vertical
2	4163.700	45.43	31.20	5.15	-39.67	42.11	74.00	31.89	PK	Vertical
3	4874.300	46.42	33.41	5.57	-39.61	45.79	74.00	28.21	PK	Vertical
4	7429.400	43.31	36.64	6.67	-40.61	46.01	74.00	27.99	PK	Vertical
5	11375.100	41.69	39.28	8.37	-39.38	49.96	74.00	24.04	PK	Vertical
6	12160.500	41.91	39.30	8.84	-39.97	50.08	74.00	23.92	PK	Vertical

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

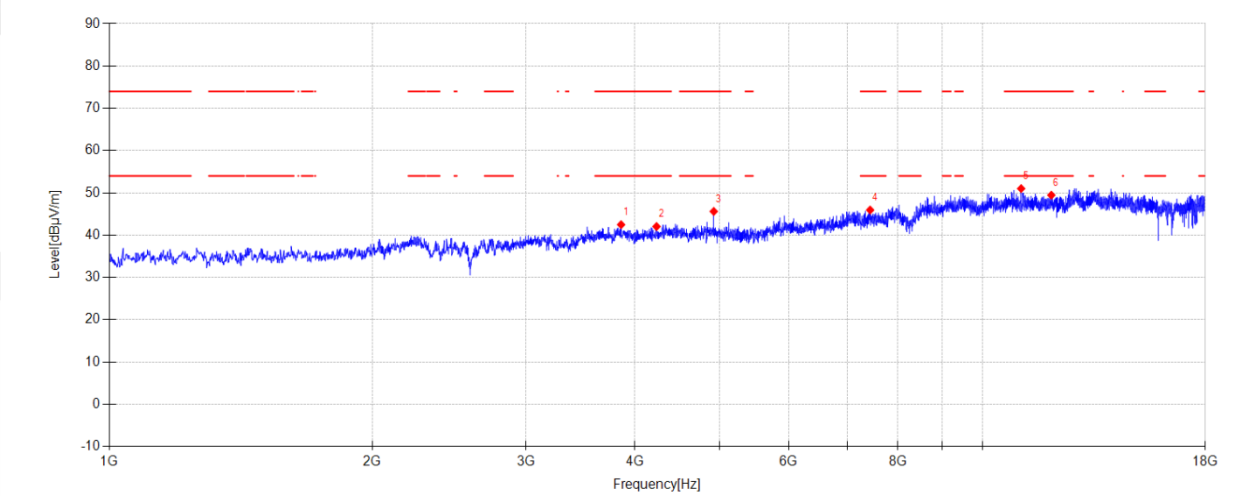
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\3

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO .	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3856.000	46.12	30.94	5.07	-39.65	42.48	74.00	31.52	PK	Horizontal
2	4233.400	45.19	31.33	5.19	-39.66	42.05	74.00	31.95	PK	Horizontal
3	4923.600	46.57	33.05	5.60	-39.61	45.61	74.00	28.39	PK	Horizontal
4	7436.200	43.26	36.63	6.67	-40.61	45.95	74.00	28.05	PK	Horizontal
5	11074.200	42.60	39.30	8.18	-39.07	51.01	74.00	22.99	PK	Horizontal
6	11992.200	41.51	39.18	8.76	-39.99	49.46	74.00	24.54	PK	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-15

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

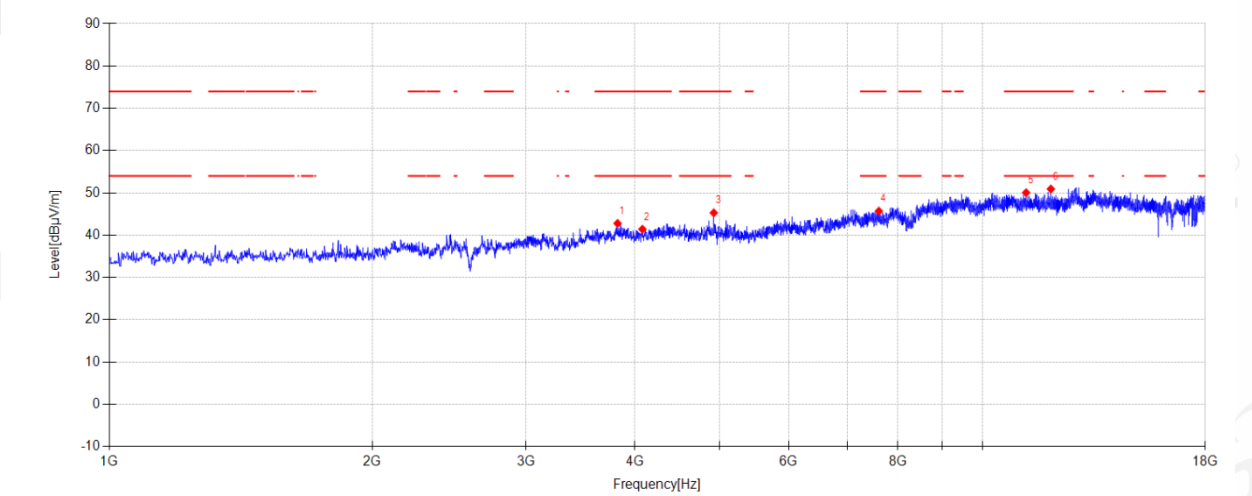
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\4

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3820.300	46.56	30.78	5.08	-39.64	42.78	74.00	31.22	PK	Vertical
2	4078.700	44.92	31.06	5.10	-39.67	41.41	74.00	32.59	PK	Vertical
3	4923.600	46.24	33.05	5.60	-39.61	45.28	74.00	28.72	PK	Vertical
4	7609.600	42.85	36.52	6.76	-40.45	45.68	74.00	28.32	PK	Vertical
5	11222.100	41.80	39.20	8.27	-39.22	50.05	74.00	23.95	PK	Vertical
6	11978.600	43.00	39.14	8.75	-39.98	50.91	74.00	23.09	PK	Vertical

Note:

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

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

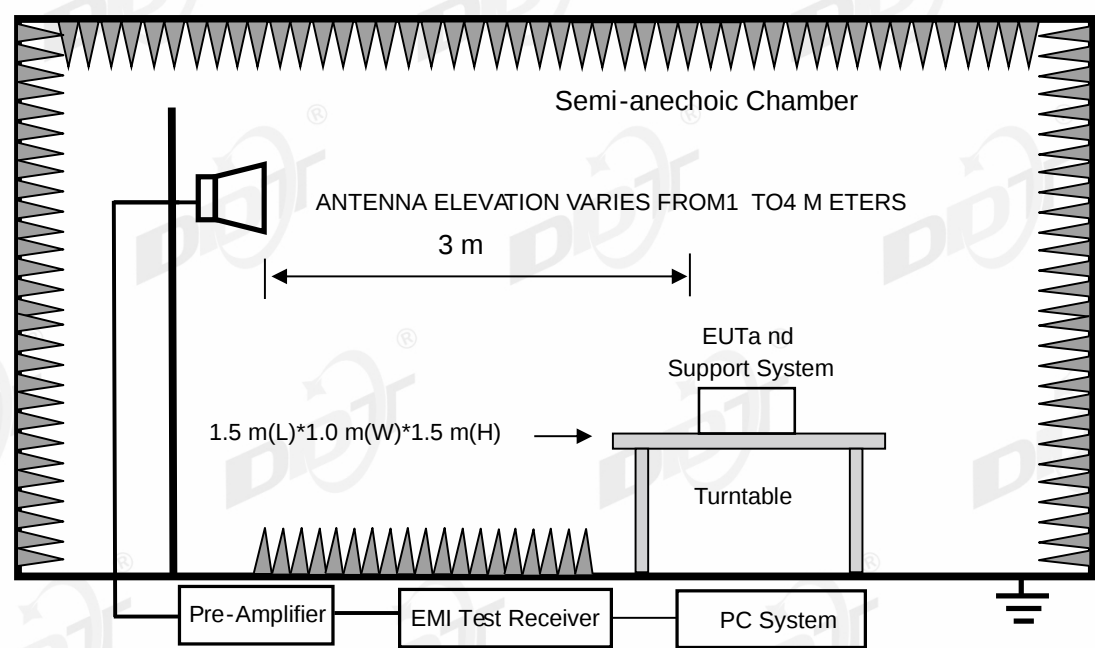
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13. Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

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: 2025-07-16 **Tested By:** Nan Zhong

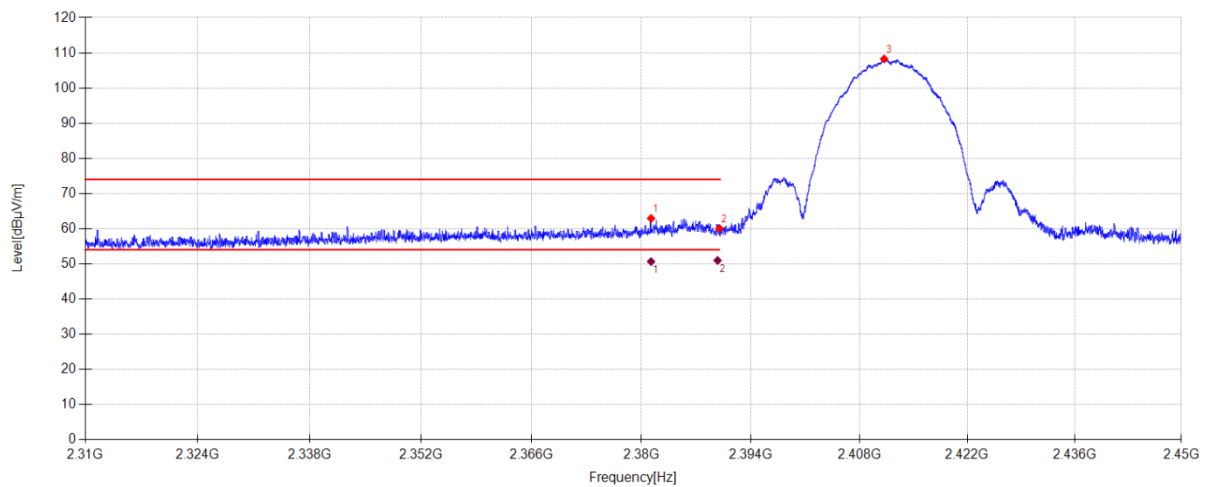
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX 11B 2412MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\36

Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2381.232	32.16	27.22	3.56	0.00	62.94	74.00	11.06	PK	Horizontal
2	2390.000	29.22	27.26	3.57	0.00	60.05	74.00	13.95	PK	Horizontal
3	2411.220	77.35	27.32	3.58	0.00	108.25	-	-	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	2381.232	19.89	27.22	3.56	50.67	54.00	3.33	AV	Horizontal
2	2389.752	20.15	27.26	3.57	50.98	54.00	3.02	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

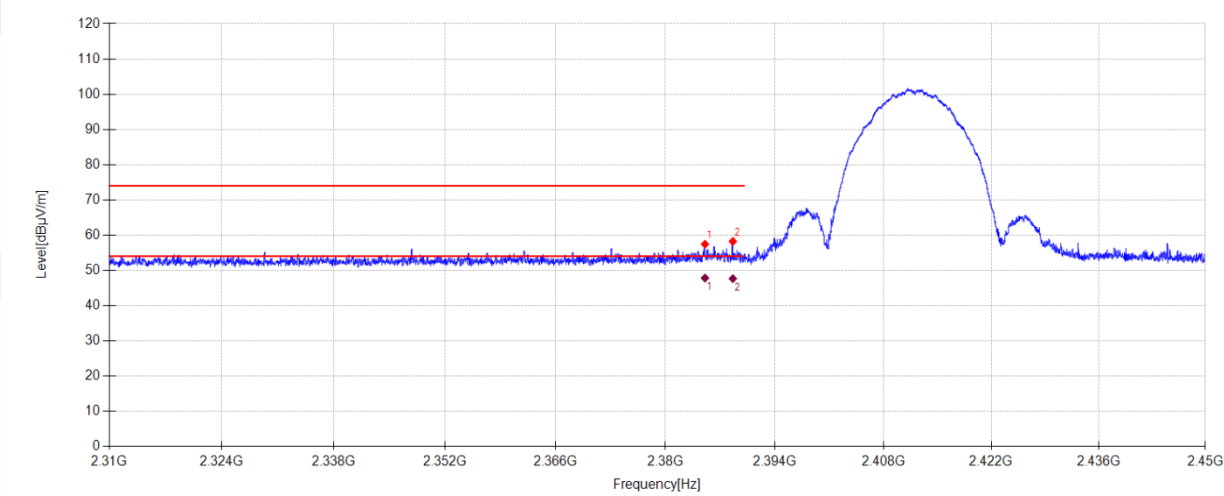
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\37

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.068	26.62	27.24	3.57	0.00	57.43	74.00	16.57	PK	Vertical
2	2388.638	27.42	27.25	3.57	0.00	58.24	74.00	15.76	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	2385.068	17.02	27.24	3.57	47.83	54.00	6.17	AV	Vertical	
2	2388.638	16.85	27.25	3.57	47.67	54.00	6.33	AV	Vertical	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

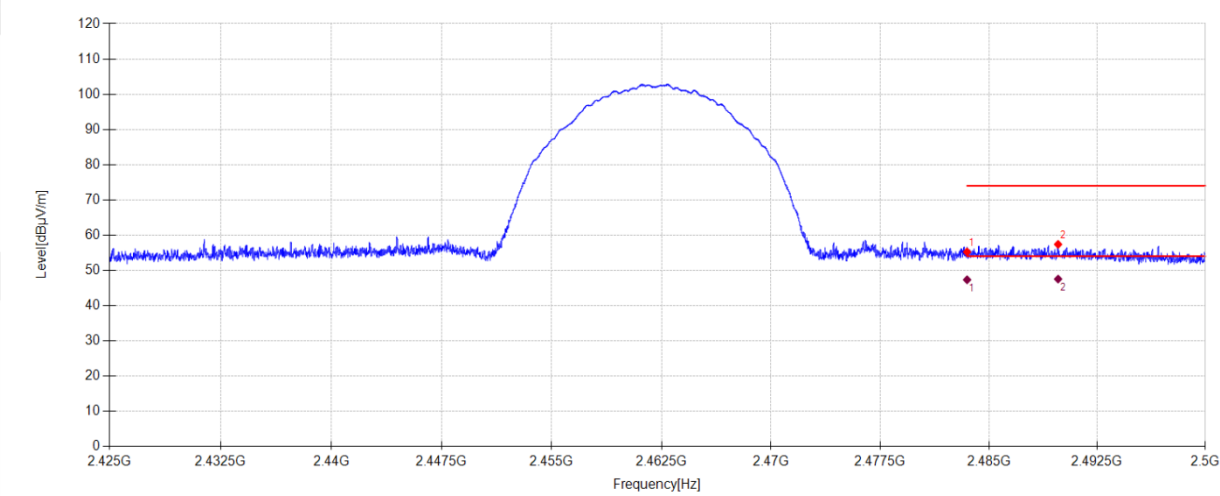
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\38

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	24.10	27.53	3.62	0.00	55.25	74.00	18.75	PK	Horizontal
2	2489.793	26.21	27.56	3.62	0.00	57.39	74.00	16.61	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	2483.500	16.19	27.53	3.62	47.34	54.00	6.66	AV	Horizontal	
2	2489.793	16.37	27.56	3.62	47.55	54.00	6.45	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11B 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

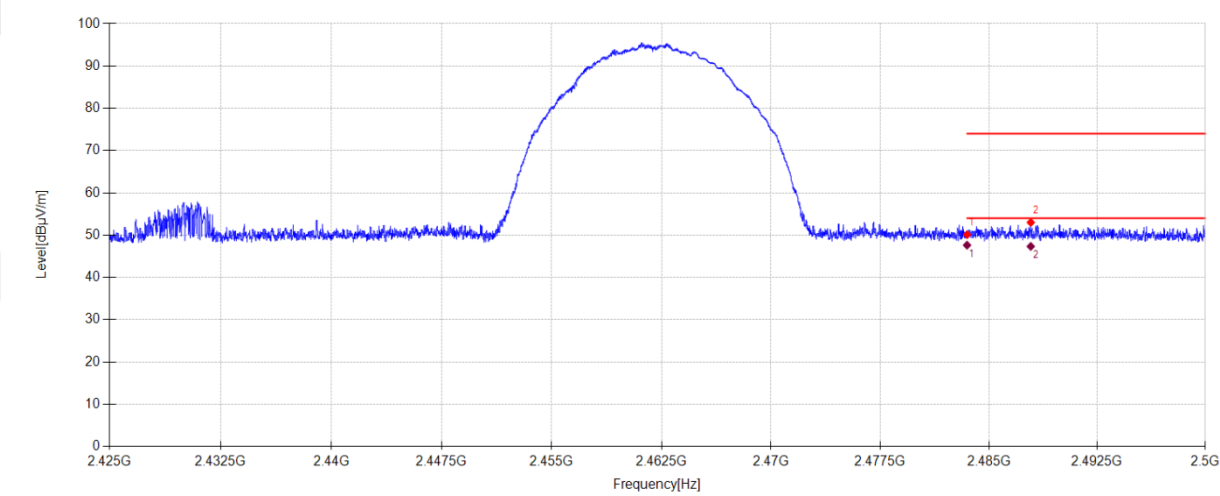
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\39

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	18.97	27.53	3.62	0.00	50.12	74.00	23.88	PK	Vertical
2	2487.903	21.83	27.55	3.62	0.00	53.00	74.00	21.00	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	2483.500	16.48	27.53	3.62	47.63	54.00	6.37	AV	Vertical	
2	2487.903	16.17	27.55	3.62	47.34	54.00	6.66	AV	Vertical	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11G 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

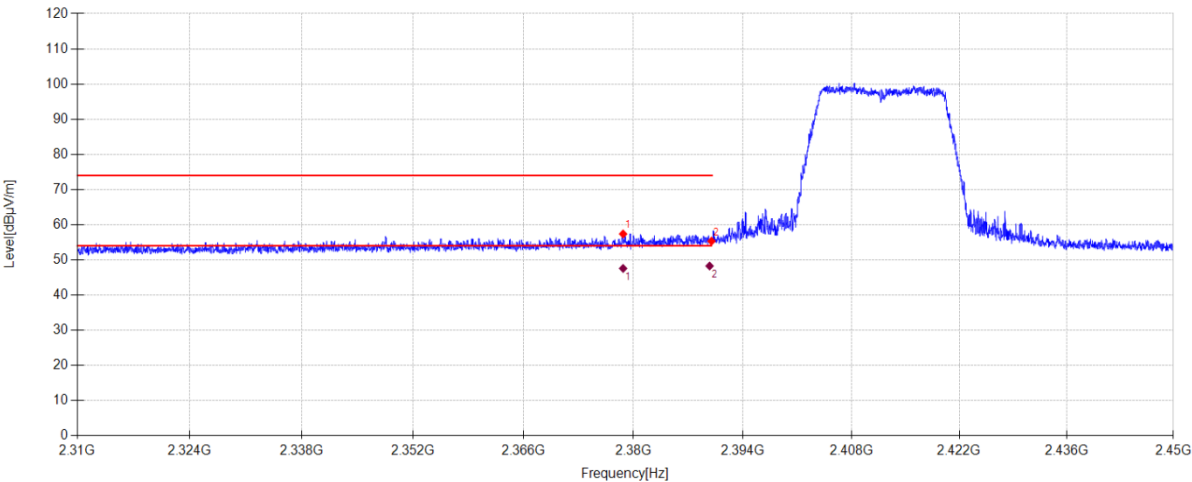
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\48

Memo:

Number:S25061119-002 Sample Power Setting:14



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2378.684	26.61	27.21	3.56	0.00	57.38	74.00	16.62	PK	Horizontal
2	2390.000	24.50	27.26	3.57	0.00	55.33	74.00	18.67	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	2378.684	16.81	27.21	3.56	47.58	54.00	6.42	AV	Horizontal	
2	2389.758	17.44	27.26	3.57	48.27	54.00	5.73	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11G 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

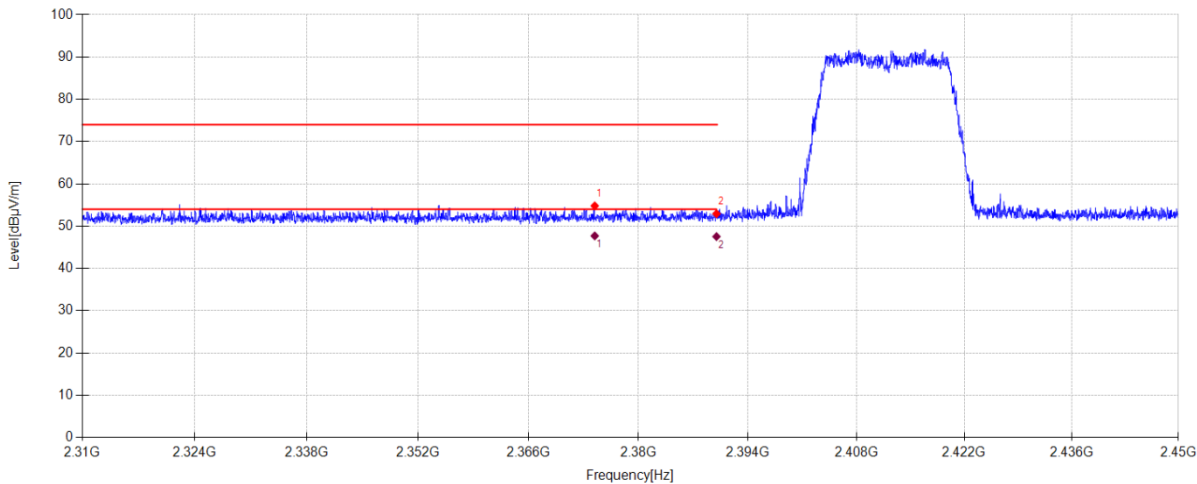
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\49

Memo:

Number:S25061119-002 Sample Power Setting:14



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2374.428	24.04	27.20	3.56	0.00	54.80	74.00	19.20	PK	Vertical
2	2390.000	22.10	27.26	3.57	0.00	52.93	74.00	21.07	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	2374.428	16.94	27.20	3.56	47.70	54.00	6.30	AV	Vertical	
2	2390.000	16.71	27.26	3.57	47.54	54.00	6.46	AV	Vertical	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11G 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

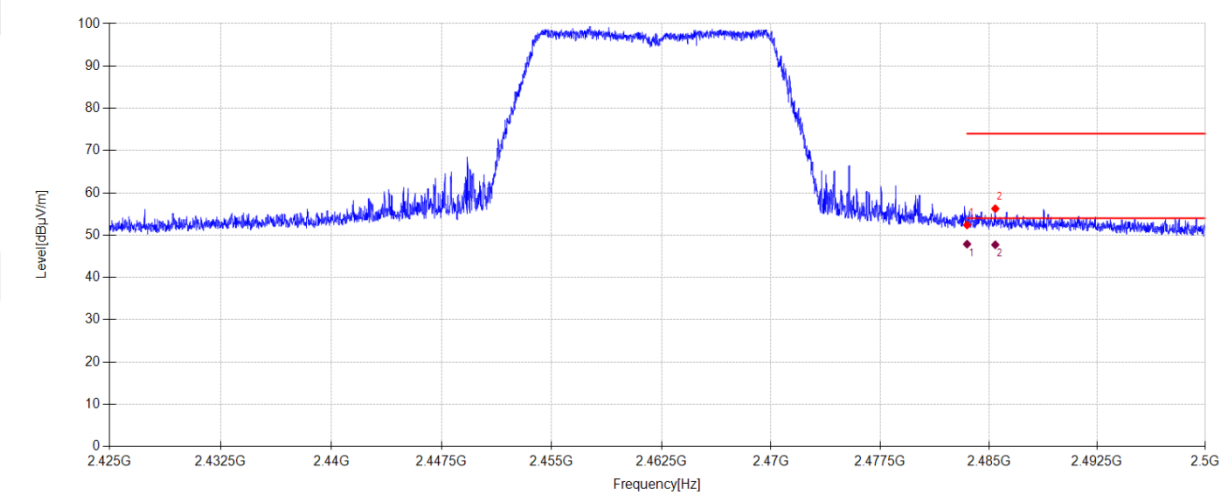
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\44

Memo:

Number:S25061119-002 Sample Power Setting:14



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	21.24	27.53	3.62	0.00	52.39	74.00	21.61	PK	Horizontal
2	2485.450	25.10	27.54	3.62	0.00	56.26	74.00	17.74	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	16.73	27.53	3.62	47.88	54.00	6.12	AV	Horizontal	
2	2485.450	16.57	27.54	3.62	47.73	54.00	6.27	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX 11G 2462MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

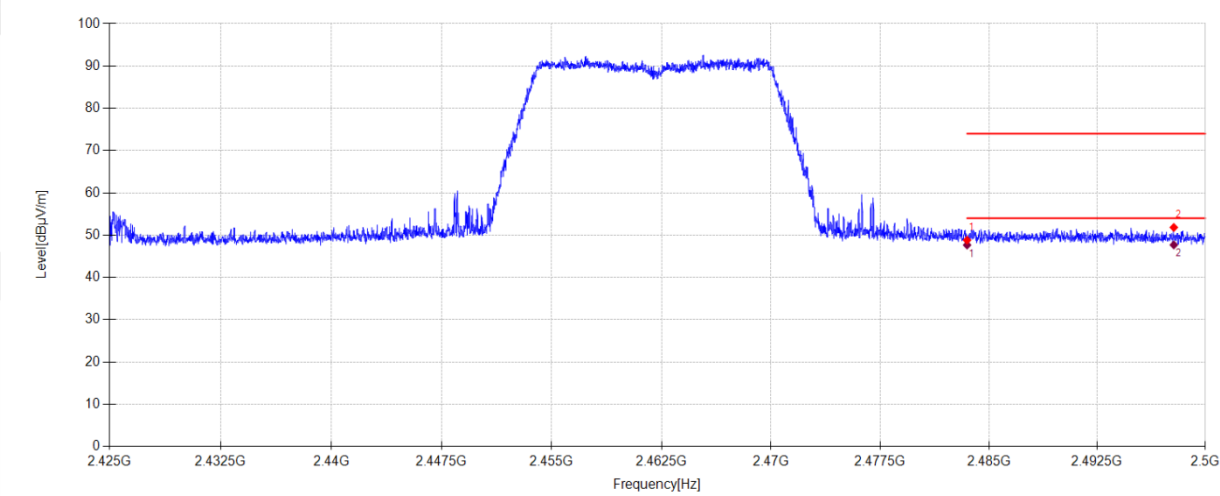
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\45

Memo:

Number:S25061119-002 Sample Power Setting:14



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.500	17.67	27.53	3.62	0.00	48.82	74.00	25.18	PK	Vertical
2	2497.810	20.61	27.59	3.63	0.00	51.83	74.00	22.17	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	2483.500	16.52	27.53	3.62	47.67	54.00	6.33	AV	Vertical	
2	2497.810	16.48	27.59	3.63	47.70	54.00	6.30	AV	Vertical	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX N20 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

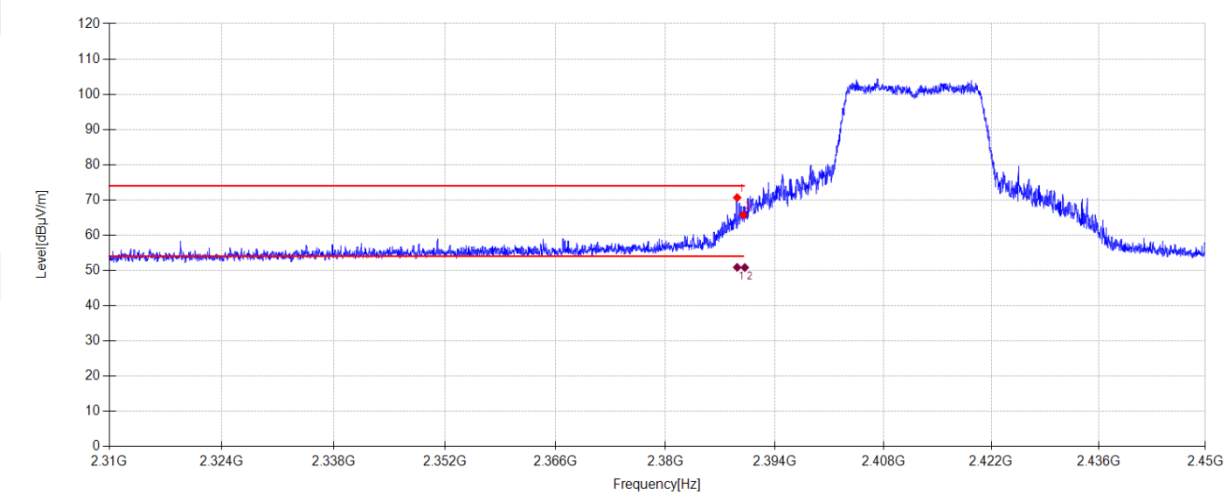
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\34

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.184	39.83	27.26	3.57	0.00	70.66	74.00	3.34	PK	Horizontal
2	2390.000	34.90	27.26	3.57	0.00	65.73	74.00	8.27	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	2389.184	20.03	27.26	3.57	50.86	54.00	3.14	AV	Horizontal	
2	2390.164	19.98	27.26	3.57	50.81	54.00	3.19	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX N20 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

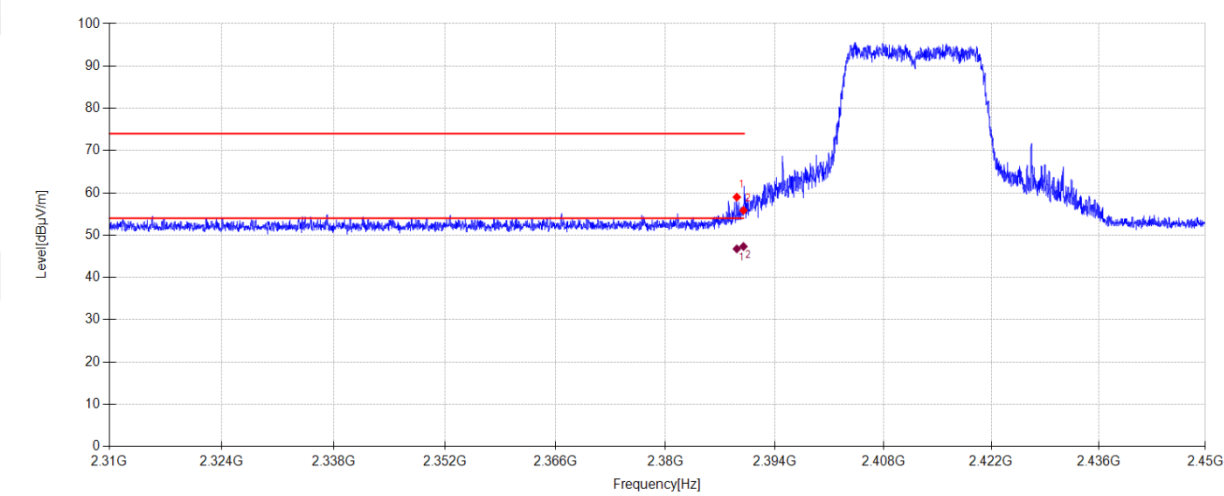
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\35

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2389.142	28.17	27.26	3.57	0.00	59.00	74.00	15.00	PK	Vertical
2	2390.000	25.03	27.26	3.57	0.00	55.86	74.00	18.14	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	2389.142	15.93	27.26	3.57	46.76	54.00	7.24	AV	Vertical	
2	2390.000	16.49	27.26	3.57	47.32	54.00	6.68	AV	Vertical	

Note:

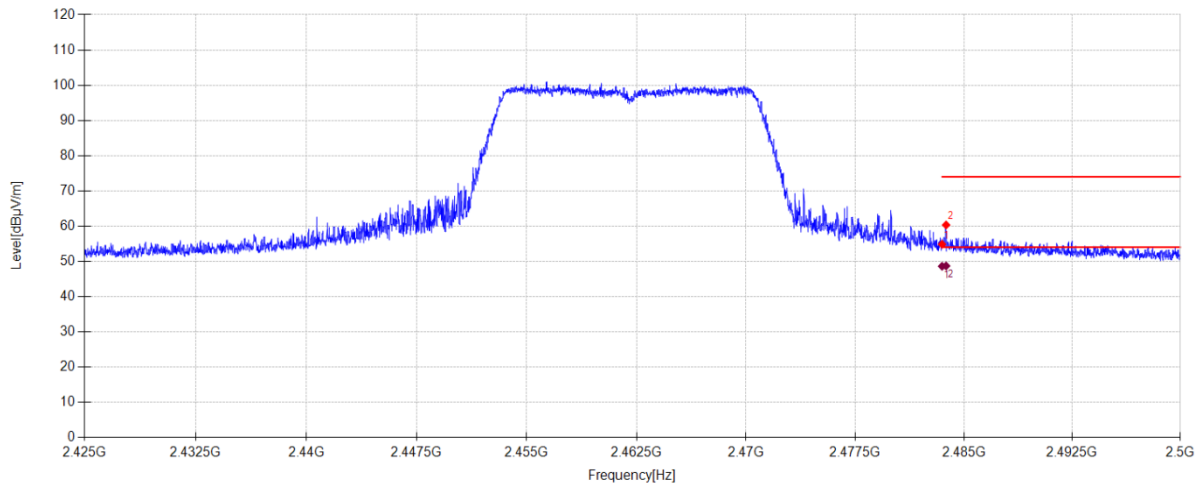
1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-16
Tested By: Nan Zhong
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA
Model Number: IP3MCB1A
Test Mode: TX N20 2462MHz Mode
Power Supply: AC120V/60Hz
Condition: Temp:22.8°C;Humi:57.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\32
Memo: Sample Number:S25061119-002

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	23.70	27.53	3.62	0.00	54.85	74.00	19.15	PK	Horizontal
2	2483.778	29.18	27.54	3.62	0.00	60.34	74.00	13.66	PK	Horizontal

Final Data List

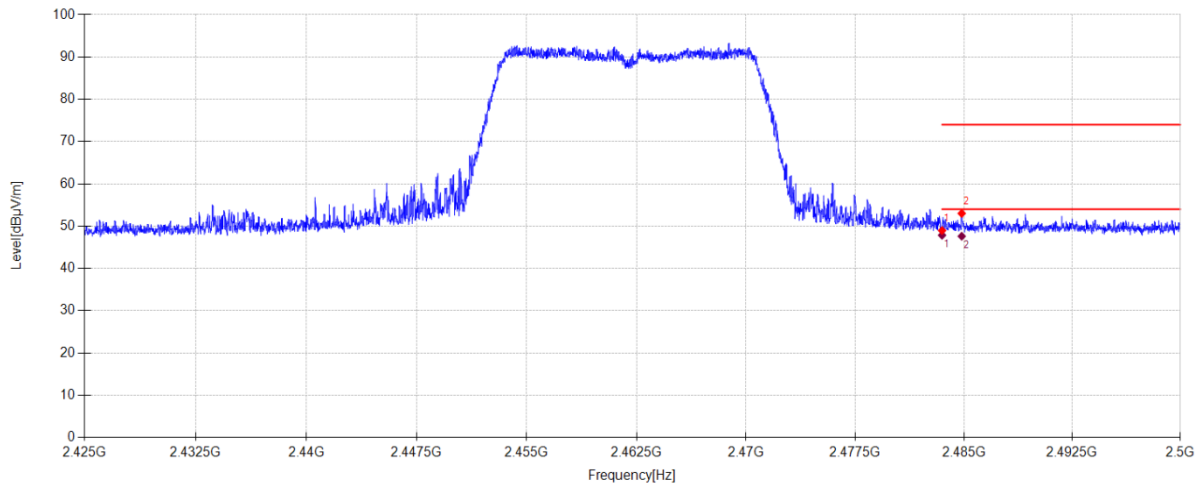
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	17.46	27.53	3.62	48.61	54.00	5.39	AV	Horizontal
2	2483.778	17.55	27.54	3.62	48.71	54.00	5.29	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-16
Tested By: Nan Zhong
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA
Model Number: IP3MCB1A
Test Mode: TX N20 2462MHz Mode
Power Supply: AC120V/60Hz
Condition: Temp:22.8°C;Humi:57.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\33
Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	17.82	27.53	3.62	0.00	48.97	74.00	25.03	PK	Vertical
2	2484.858	21.85	27.54	3.62	0.00	53.01	74.00	20.99	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	2483.500	16.71	27.53	3.62	47.86	54.00	6.14	AV	Vertical
2	2484.858	16.46	27.54	3.62	47.62	54.00	6.38	AV	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-16

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX AX20 2412MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

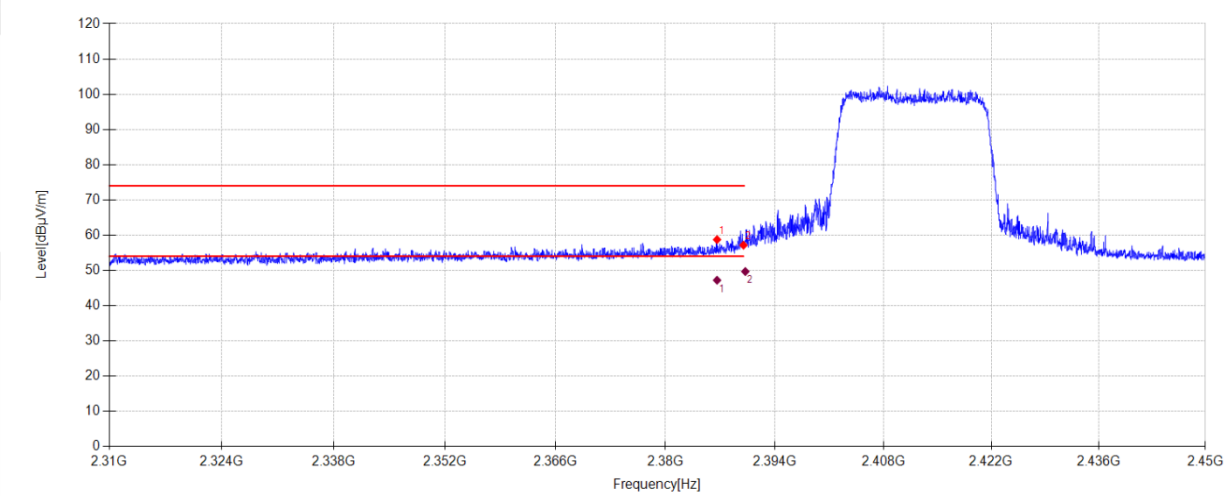
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\52

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.608	27.91	27.25	3.57	0.00	58.73	74.00	15.27	PK	Horizontal
2	2390.000	26.33	27.26	3.57	0.00	57.16	74.00	16.84	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	2386.608	16.39	27.25	3.57	47.21	54.00	6.79	AV	Horizontal	
2	2390.232	18.85	27.26	3.57	49.68	54.00	4.32	AV	Horizontal	

Note:

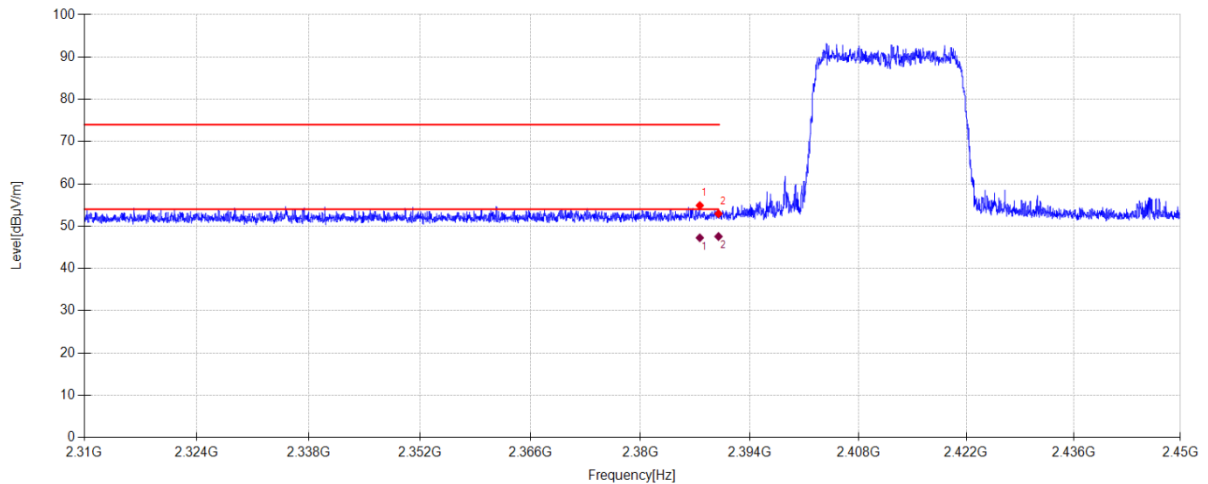
1. Level = Reading + Cable loss + Antenna Factor + AMP

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-16
Tested By: Nan Zhong
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA
Model Number: IP3MCB1A
Test Mode: TX AX20 2412MHz Mode
Power Supply: AC120V/60Hz
Condition: Temp:22.8°C;Humi:57.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\53
Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.602	24.07	27.25	3.57	0.00	54.89	74.00	19.11	PK	Vertical
2	2390.000	22.11	27.26	3.57	0.00	52.94	74.00	21.06	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	2387.602	16.43	27.25	3.57	47.25	54.00	6.75	AV	Vertical
2	2390.000	16.72	27.26	3.57	47.55	54.00	6.45	AV	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

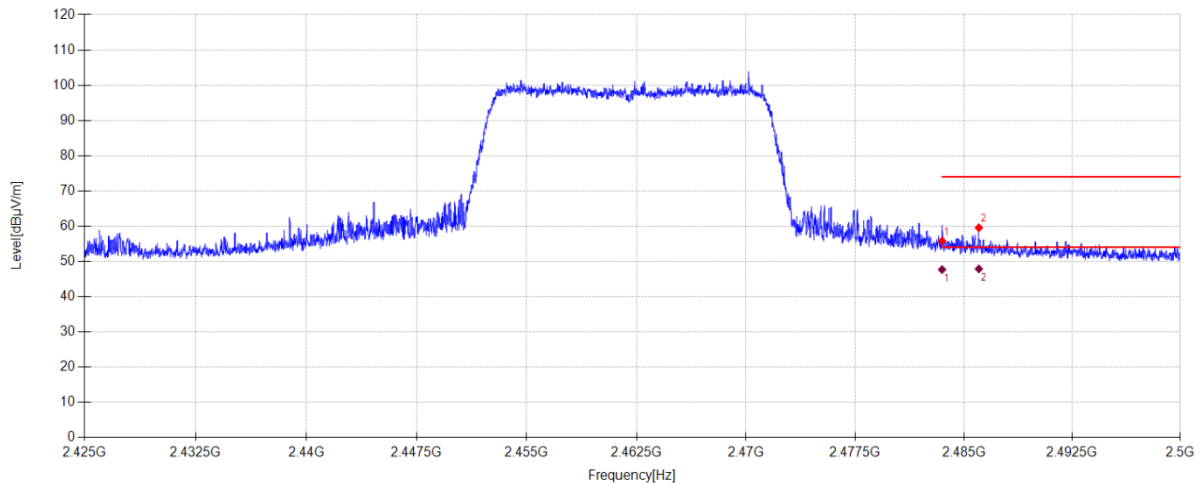
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX AX20 2462MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\54

Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	24.64	27.53	3.62	0.00	55.79	74.00	18.21	PK	Horizontal
2	2486.043	28.40	27.54	3.62	0.00	59.56	74.00	14.44	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	16.53	27.53	3.62	47.68	54.00	6.32	AV	Horizontal
2	2486.043	16.71	27.54	3.62	47.87	54.00	6.13	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

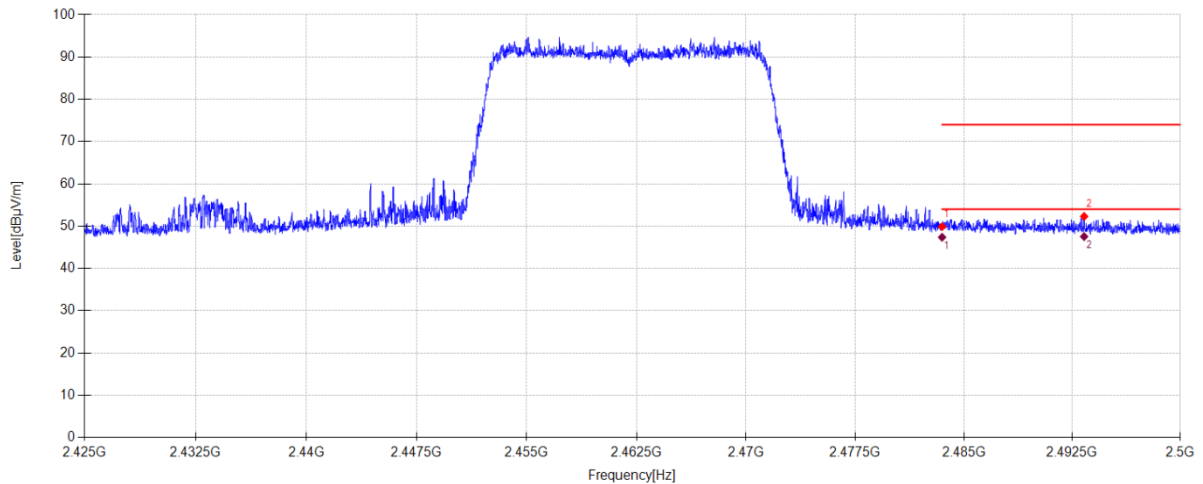
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX AX20 2462MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\55

Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	18.73	27.53	3.62	0.00	49.88	74.00	24.12	PK	Vertical
2	2493.325	21.10	27.57	3.63	0.00	52.30	74.00	21.70	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	2483.500	16.22	27.53	3.62	47.37	54.00	6.63	AV	Vertical
2	2493.325	16.34	27.57	3.63	47.54	54.00	6.46	AV	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-17

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX N40 2422MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

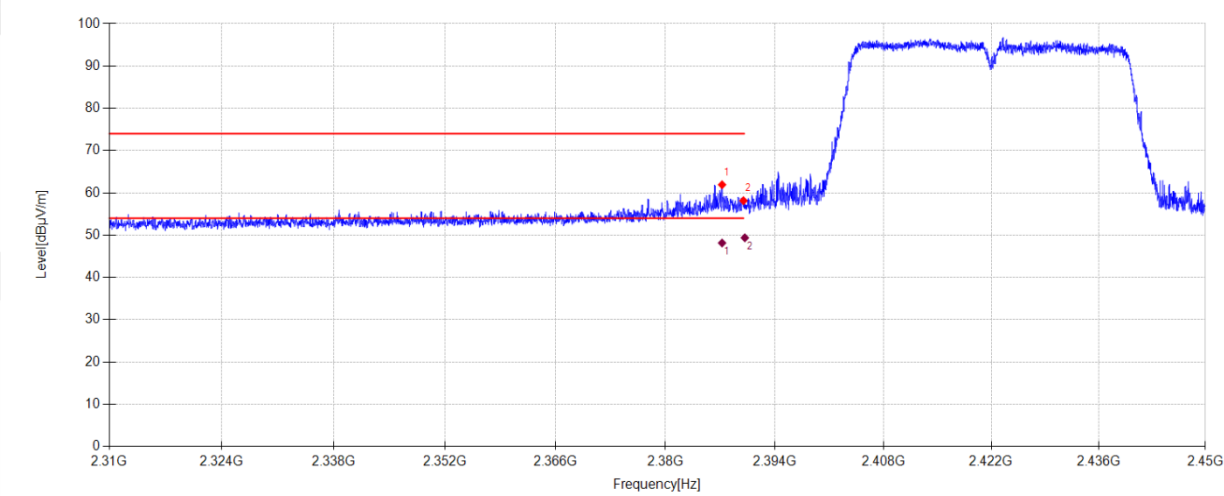
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\56

Memo:

Sample Number:S25061119-002



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2387.252	31.10	27.25	3.57	0.00	61.92	74.00	12.08	PK	Horizontal
2	2390.000	27.32	27.26	3.57	0.00	58.15	74.00	15.85	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	2387.252	17.33	27.25	3.57	48.15	54.00	5.85	AV	Horizontal	
2	2390.169	18.55	27.26	3.57	49.38	54.0	4.62	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

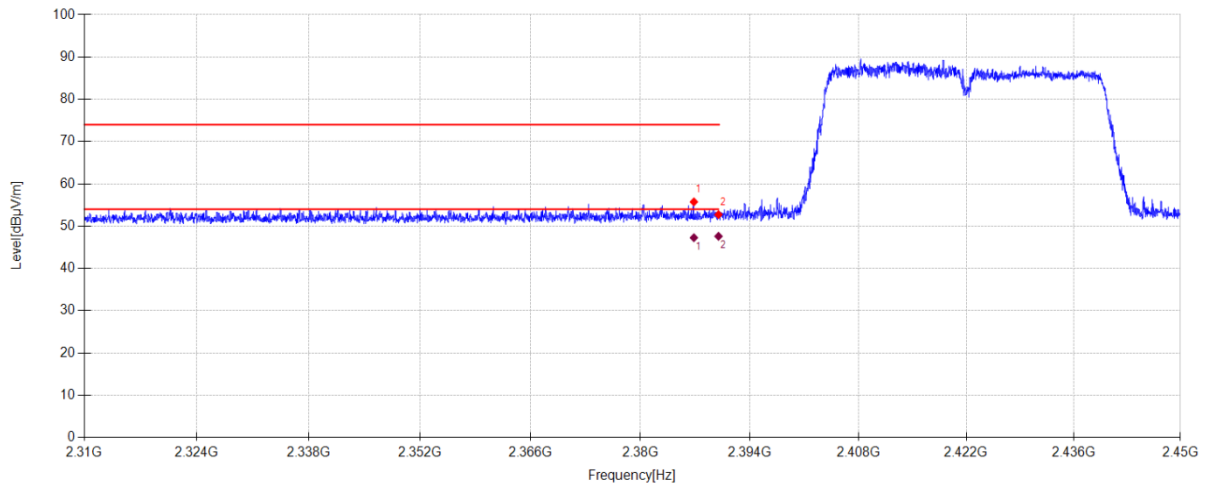
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX N40 2422MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\57

Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.846	24.92	27.25	3.57	0.00	55.74	74.00	18.26	PK	Vertical
2	2390.000	21.91	27.26	3.57	0.00	52.74	74.00	21.26	PK	Vertical

Final Data List

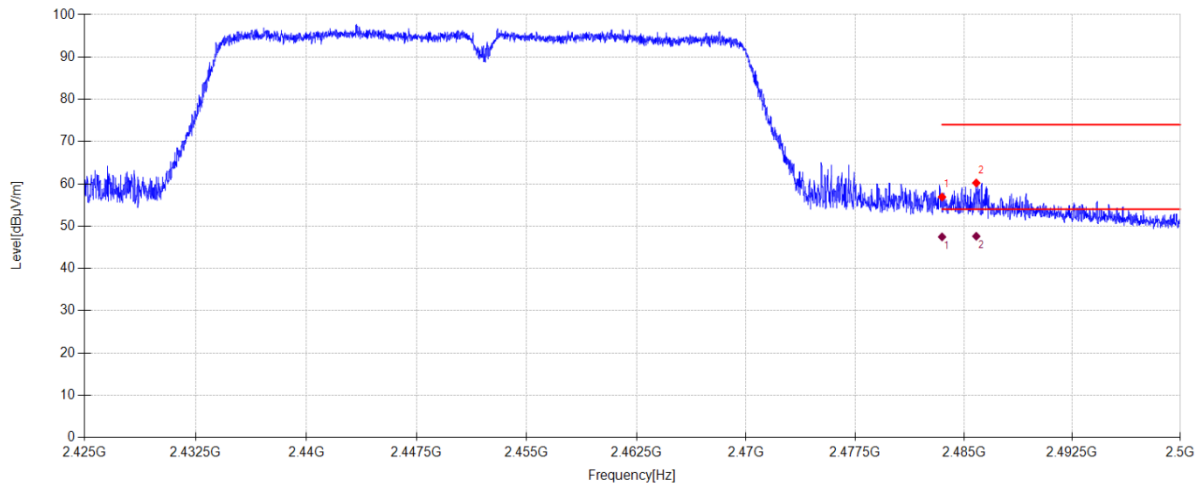
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.846	16.45	27.25	3.57	47.27	54.00	6.73	AV	Vertical
2	2390.000	16.77	27.26	3.57	47.60	54.00	6.40	AV	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17
Tested By: Nan Zhong
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA
Model Number: IP3MCB1A
Test Mode: TX N40 2452MHz Mode
Power Supply: AC120V/60Hz
Condition: Temp:22.8°C;Humi:57.5%
Test Site: DDT 3# Chamber
File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\58
Memo: Sample Number:S25061119-002



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	25.75	27.53	3.62	0.00	56.90	74.00	17.10	PK	Horizontal
2	2485.863	29.06	27.54	3.62	0.00	60.22	74.00	13.78	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	16.31	27.53	3.62	47.46	54.00	6.54	AV	Horizontal
2	2485.863	16.45	27.54	3.62	47.61	54.00	6.39	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

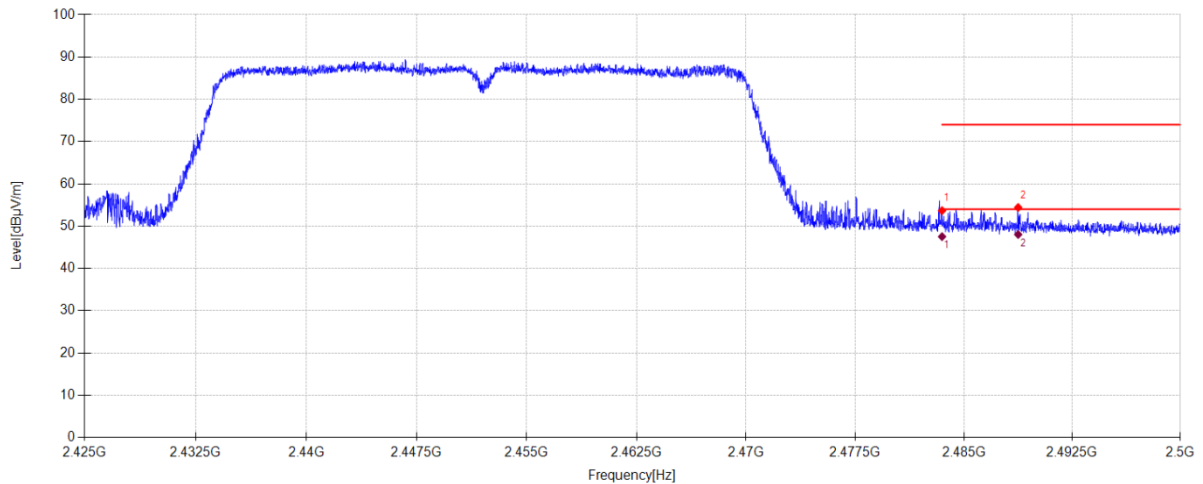
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX N40 2452MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\59

Memo: Sample Number:S25061119-002

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	22.52	27.53	3.62	0.00	53.67	74.00	20.33	PK	Vertical
2	2488.758	23.24	27.56	3.62	0.00	54.42	74.00	19.58	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	2483.500	16.37	27.53	3.62	47.52	54.00	6.48	AV	Vertical
2	2488.758	16.85	27.56	3.62	48.03	54.00	5.97	AV	Vertical

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

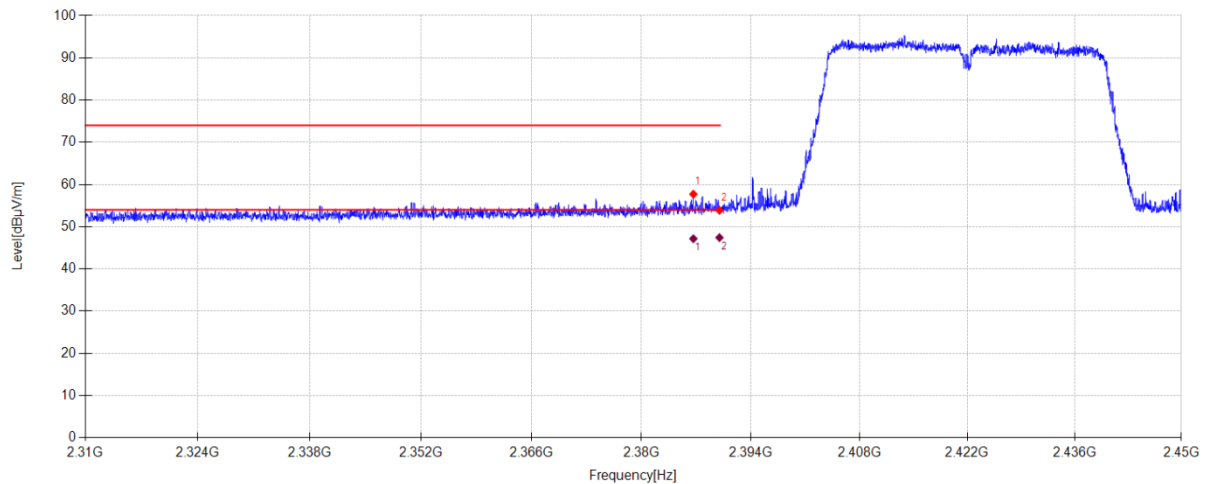
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX AX40 2422MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\66

Memo: Number:S25061119-002 Sample Power Setting:13

**Suspected Data List**

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2386.650	26.90	27.25	3.57	0.00	57.72	74.00	16.28	PK	Horizontal
2	2390.000	23.05	27.26	3.57	0.00	53.88	74.00	20.12	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	2386.650	16.34	27.25	3.57	47.16	54.00	6.84	AV	Horizontal
2	2390.000	16.59	27.26	3.57	47.42	54.00	6.58	AV	Horizontal

Note:

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-17

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX AX40 2422MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

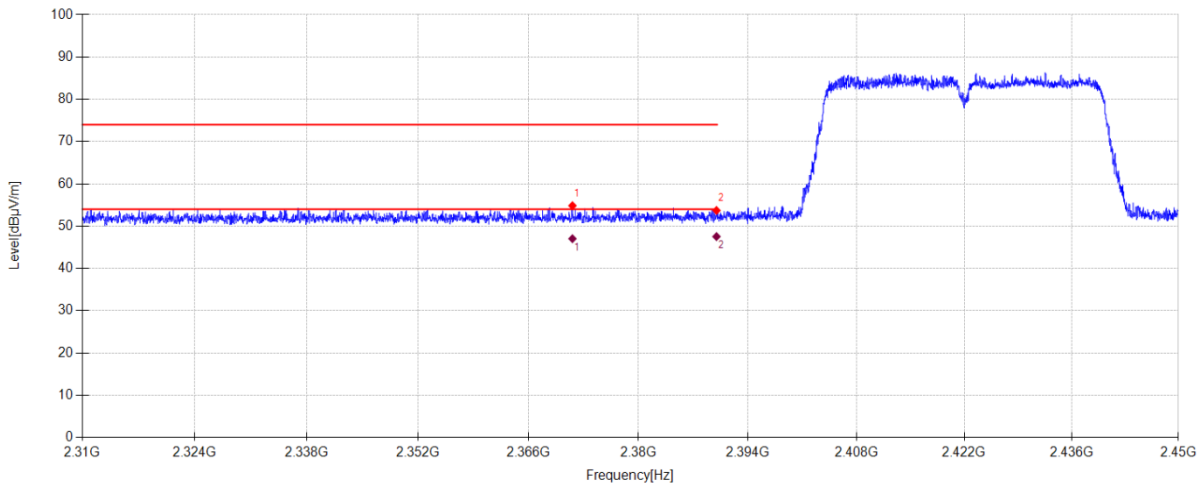
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\67

Memo:

Number:S25061119-002 Sample Power Setting:13



Suspected Data List										
NO	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2371.586	24.08	27.19	3.56	0.00	54.83	74.00	19.17	PK	Vertical
2	2390.000	22.88	27.26	3.57	0.00	53.71	74.00	20.29	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	2371.586	16.28	27.19	3.56	47.03	54.00	6.97	AV	Vertical	
2	2390.000	16.71	27.26	3.57	47.54	54.00	6.46	AV	Vertical	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date:

2025-07-17

Tested By:

Nan Zhong

EUT:

DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA

Model Number:

IP3MCB1A

Test Mode:

TX AX40 2452MHz Mode

Power Supply:

AC120V/60Hz

Condition:

Temp:22.8°C;Humi:57.5%

Test Site:

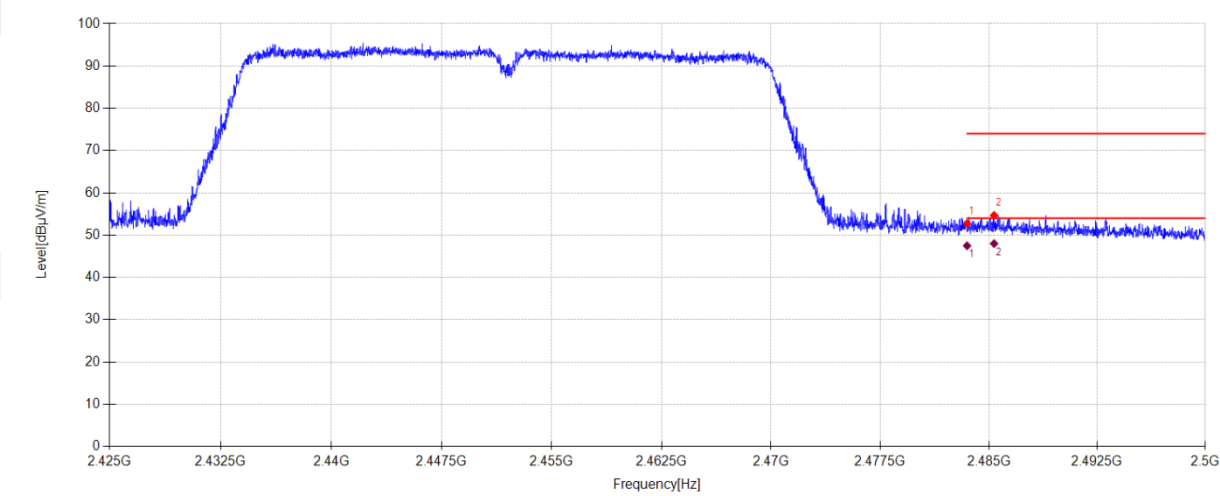
DDT 3# Chamber

File Path:

d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\64

Memo:

Number:S25061119-002 Sample Power Setting:13



Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	21.57	27.53	3.62	0.00	52.72	74.00	21.28	PK	Horizontal
2	2485.368	23.51	27.54	3.62	0.00	54.67	74.00	19.33	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	16.34	27.53	3.62	47.49	54.00	6.51	AV	Horizontal	
2	2485.368	16.84	27.54	3.62	48.00	54.00	6.00	AV	Horizontal	

Note:

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

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

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

TR-4-E-009 Radiated Emission Test Result

Test Date: 2025-07-17 **Tested By:** Nan Zhong

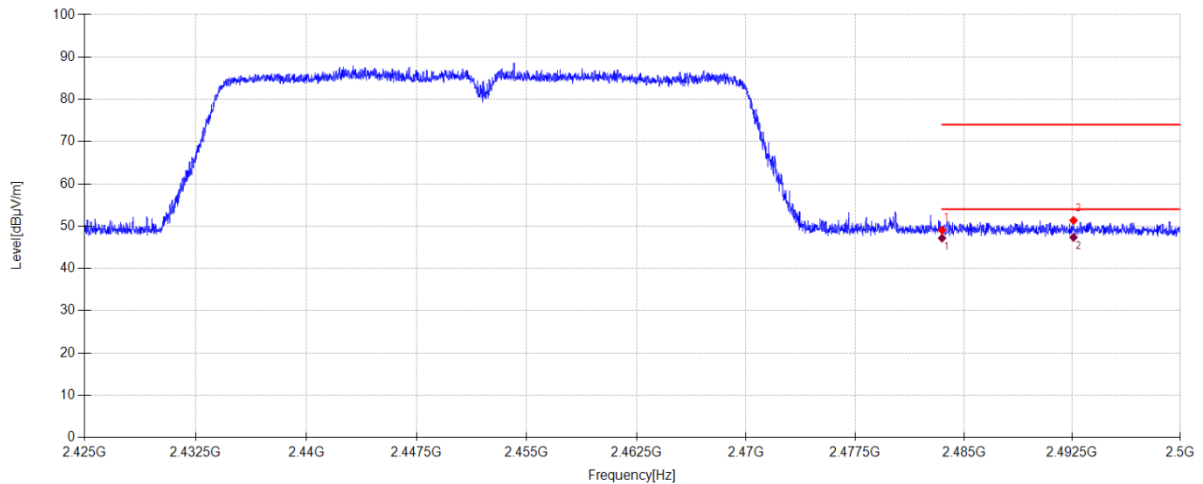
EUT: DEFENDER GO 2K AI POWERED
PLUG-IN INDOOR/OUTDOOR HOME,
BUSINESS, BABY & PET SECURITY
CAMERA **Model Number:** IP3MCB1A

Test Mode: TX AX40 2452MHz Mode **Power Supply:** AC120V/60Hz

Condition: Temp:22.8°C;Humi:57.5% **Test Site:** DDT 3# Chamber

File Path: d:\ts\2025 report date\Q25061119-2E\FCC ABOVE 1G 2.4G\65

Memo: Number:S25061119-002 Sample Power Setting:13



Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.500	17.91	27.53	3.62	0.00	49.06	74.00	24.94	PK	Vertical
2	2492.590	20.16	27.57	3.63	0.00	51.36	74.00	22.64	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	2483.500	16.02	27.53	3.62	47.17	54.00	6.83	AV	Vertical
2	2492.590	16.15	27.57	3.63	47.35	54.00	6.65	AV	Vertical

Note:

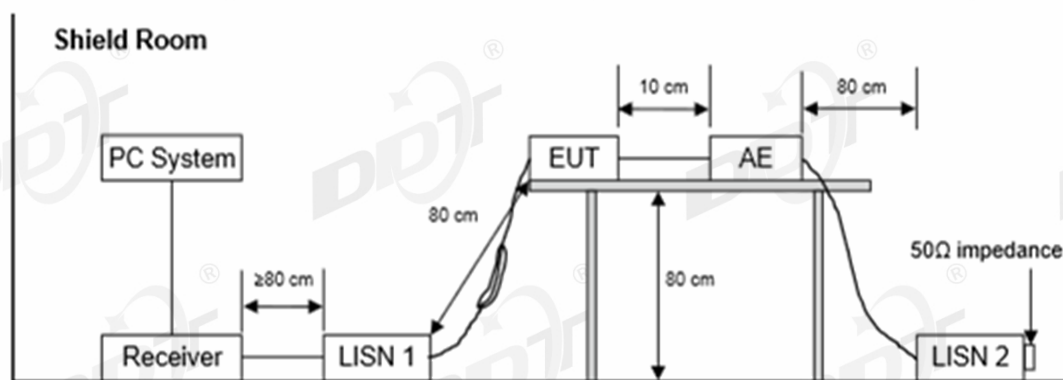
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Power Line Conducted Emissions

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
EMI Test Receiver	R&S	ESCI 3	DDT-ZC01972	2026/03/28
Two Line V-Network	R&S	ENV216	DDT-ZC00586	2026/07/06
Pulse Limiter	R&S	KH43101	DDT-ZC00747	2026/03/28
Coaxial signal signal cable	H&S	RG214-5	DDT-ZC01817	2026/03/28
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/
Two Line V-Network	R&S	ENV216	DDT-ZC02058	2026/07/06

14.2. Block diagram of test setup



14.3. Limits

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

14.4. Assistant equipment used for test

Accessories	Manufacturer	Model number	Description
AC ADAPTER	Bazhong Chuanyuan	CY-01050100UU	INPUT: 100-240V~50/60Hz 0.3A MAX OUTPUT: 5.0V==1.0A 5.0W
Power Cable	/	/	Length: 175cm, without core

14.5. 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.

14.6. 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.

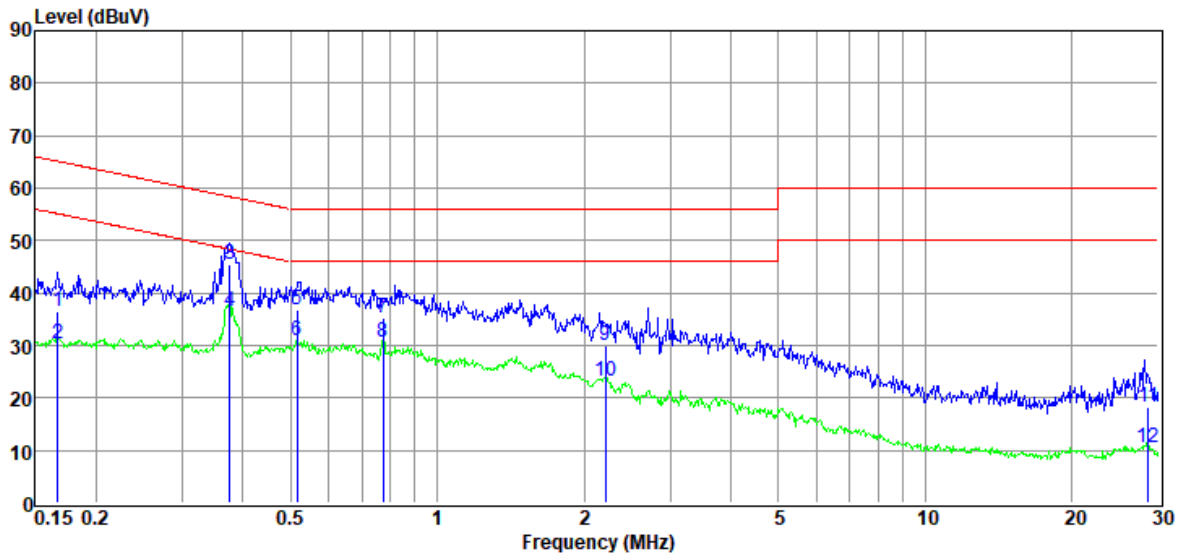
Note4: Scan with all mode, the worst case is record and report.

14.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 5# Shield Room D:\2025 report data\Q25061119-2E\EM6.EM6
Test Date : 2025-07-22 Tested By : Nan Zhong
EUT : DEFENDER GO 2K AI POWERED PLUG-IN Model Number : IP3MCB1A
Power Supply : AC 120V/60Hz Test Mode : TX 11B 2462MHz Mode
Condition : Temp:21.3°C,Humi:42.8% LISN : 2023 ENV216 2#/NEUTRAL
Memo : S25061119-004

Data: 10



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.17	16.34	9.96	0.09	10.06	36.45	65.12	-28.67	QP	NEUTRAL
2	0.17	10.12	9.96	0.09	10.06	30.23	55.12	-24.89	Average	NEUTRAL
3	0.38	25.23	10.04	0.10	10.07	45.44	58.39	-12.95	QP	NEUTRAL
4	0.38	16.25	10.04	0.10	10.07	36.46	48.39	-11.93	Average	NEUTRAL
5	0.52	16.77	9.97	0.10	10.07	36.91	56.00	-19.09	QP	NEUTRAL
6	0.52	10.74	9.97	0.10	10.07	30.88	46.00	-15.12	Average	NEUTRAL
7	0.78	15.17	9.97	0.10	10.06	35.30	56.00	-20.70	QP	NEUTRAL
8	0.78	10.42	9.97	0.10	10.06	30.55	46.00	-15.45	Average	NEUTRAL
9	2.21	9.78	10.00	0.15	10.06	29.99	56.00	-26.01	QP	NEUTRAL
10	2.21	2.85	10.00	0.15	10.06	23.06	46.00	-22.94	Average	NEUTRAL
11	28.60	-2.22	10.01	0.42	10.08	18.29	60.00	-41.71	QP	NEUTRAL
12	28.60	-10.07	10.01	0.42	10.08	10.44	50.00	-39.56	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

Test Date

: 2025-07-22

EUT

: DEFENDER GO 2K AI POWERED PLUG-IN
INDOOR/OUTDOOR HOME, BUSINESS,
BABY & PET SECURITY CAMERA

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.3°C,Humi:42.8%

Memo

: S25061119-004

D:\2025 report data\Q25061119-2E\EM6.EM6

Tested By

: Nan Zhong

Model Number

: IP3MCB1A

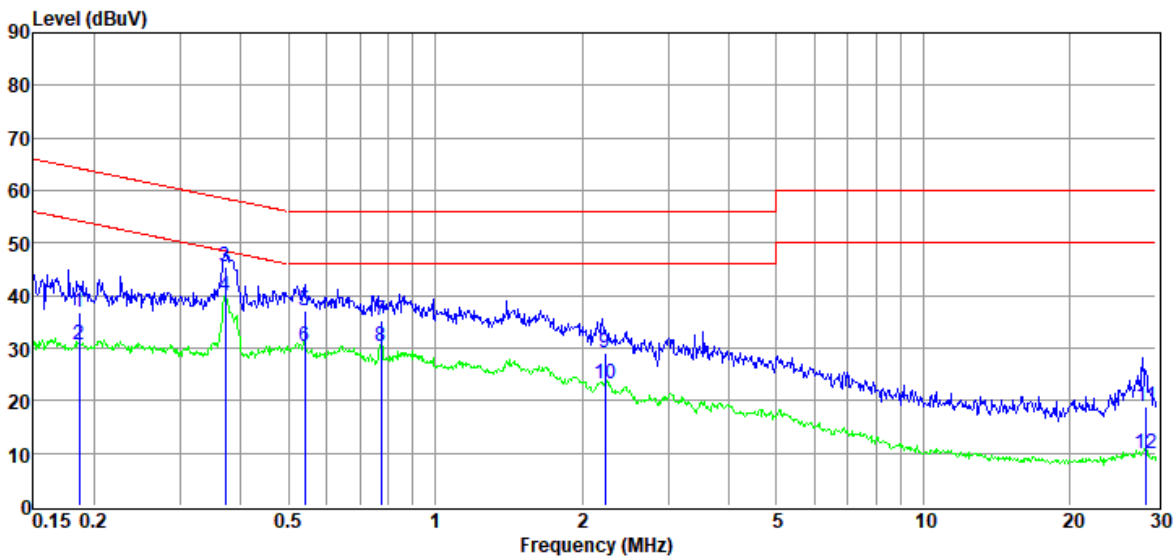
Test Mode

: TX 11B 2462MHz Mode

LISN

: 2023 ENV216 2#/LINE

Data: 12



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.19	16.65	9.94	0.09	10.06	36.74	64.20	-27.46	QP	LINE
2	0.19	10.47	9.94	0.09	10.06	30.56	54.20	-23.64	Average	LINE
3	0.37	25.25	9.94	0.09	10.07	45.35	58.47	-13.12	QP	LINE
4	0.37	19.90	9.94	0.09	10.07	40.00	48.47	-8.47	Average	LINE
5	0.54	16.90	9.96	0.10	10.07	37.03	56.00	-18.97	QP	LINE
6	0.54	10.11	9.96	0.10	10.07	30.24	46.00	-15.76	Average	LINE
7	0.78	15.01	9.97	0.10	10.06	35.14	56.00	-20.86	QP	LINE
8	0.78	10.20	9.97	0.10	10.06	30.33	46.00	-15.67	Average	LINE
9	2.23	8.70	10.02	0.15	10.06	28.93	56.00	-27.07	QP	LINE
10	2.23	2.96	10.02	0.15	10.06	23.19	46.00	-22.81	Average	LINE
11	28.60	-1.65	10.01	0.42	10.08	18.86	60.00	-41.14	QP	LINE
12	28.60	-10.47	10.01	0.42	10.08	10.04	50.00	-39.96	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.

16. Photos of the EUT

Please refer to DDT-Q25061119-1E appendix I

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