

FCC TEST REPORT

For

DexForce Technology Co., Ltd.

Product Name: DexSense 3D industrial camera

Test Model(s): KINGFISHER

Report Reference No. : DACE250911006EC001

Applicant's Name : DexForce Technology Co., Ltd.

Address : 14/F, Venture Capital Tower, 1001 Keyuan Road, Nanshan District,
Shenzhen, China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,
Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong, China

Test Specification Standard : 47 CFR Part 15, Subpart B

Date of Receipt : September 11, 2025

Date of Test : September 11, 2025 to September 17, 2025

Data of Issue : September 17, 2025

Result : Pass

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Apply for company information

Applicant's Name	:	DexForce Technology Co., Ltd.
Address	:	14/F, Venture Capital Tower, 1001 Keyuan Road, Nanshan District, Shenzhen, China
Product Name	:	DexSense 3D industrial camera
Test Model(s)	:	KINGFISHER
Series Model(s)	:	KINGFISHER-S, KINGFISHER-W
Test Specification Standard(s)	:	47 CFR Part 15, Subpart B



NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

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September 17, 2025

Supervised by:

Stone Yin / Project Engineer

September 17, 2025



Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE250911006EC001	September 17, 2025

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15, Subpart B: Unintentional Radiators

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.109, Class B	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : DexForce Technology Co., Ltd.
Address : 14/F, Venture Capital Tower, 1001 Keyuan Road, Nanshan District, Shenzhen, China

Manufacturer : DexForce Technology Co., Ltd.
Address : 14/F, Venture Capital Tower, 1001 Keyuan Road, Nanshan District, Shenzhen, China

2.2 Description of Device (EUT)

Product Name:	DexSense 3D industrial camera
Model/Type reference:	KINGFISHER
Series Model:	KINGFISHER-S, KINGFISHER-W
Model Difference:	Only the model name and appearance are different, the circuit principle is the same, and all the tests are based on the model KINGFISHER
Trade Mark:	
Power Supply:	Input:100-240V~;50/60Hz Output:DC 54V,0.7A
Highest Internal Frequency:	1.705-108MHz
Classification of Equipment:	Class B

2.3 Description of Test Modes

No	Title	Description
TM1	Working	AC 120V/60Hz

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
PC	HP	TPN-Q304	N/A

2.5 Equipments Used During The Test

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
loop antenna	EVERFINE	LLA-2	80900L-C	2024-12-19	2025-12-18
Power absorbing clamp	SCHWARZ BECK	MESS-ELEKTRONIK	/	2025-04-23	2026-04-22
Electric Network	SCHWARZ BECK	CAT5 8158	CAT5 8158#207	2025-04-18	2026-04-17
Cable	SCHWARZ BECK	/	/	2025-04-18	2026-04-17
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2024-12-06	2025-12-05
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A	/	2024-09-27	2025-09-26
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Cable(HF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(HF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Control	MF	MF-7802	MF780208362	2024-12-09	2025-12-08
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	$\pm 3.41\text{dB}$
Radiated Emission (Below 1GHz)	$\pm 5.79\text{dB}$
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

3 Emission Test Results (EMI)

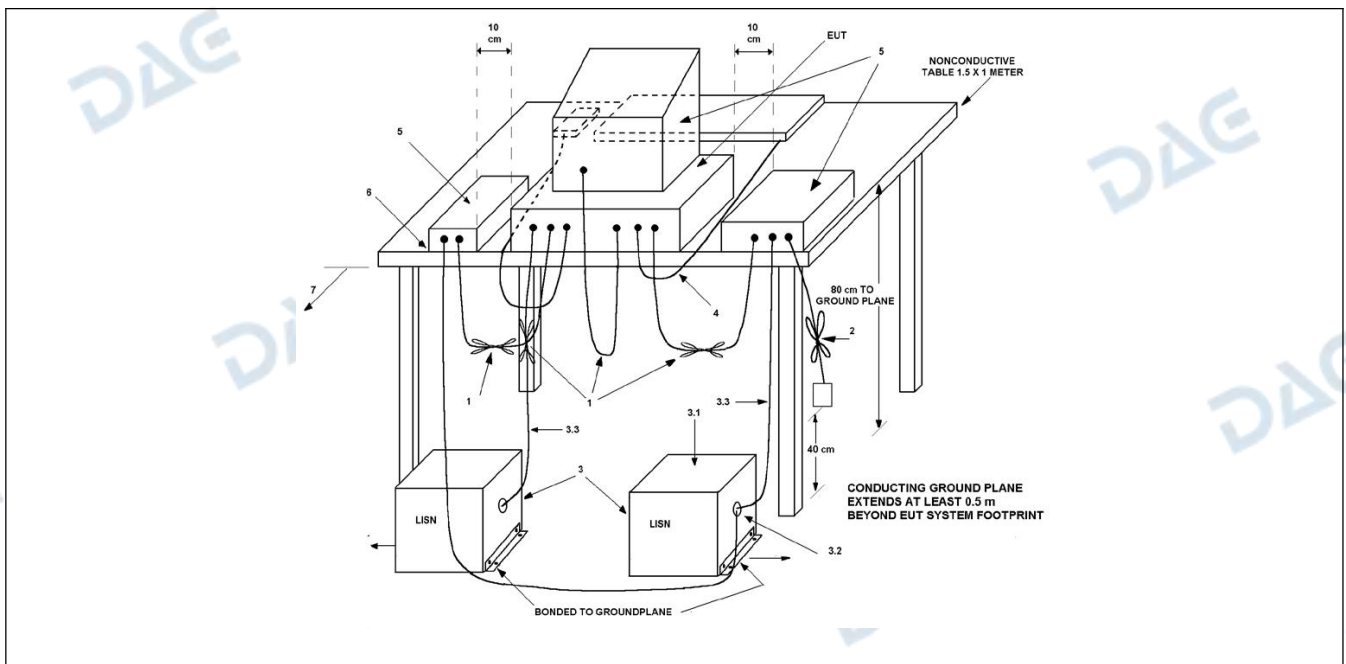
3.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

3.1.1 E.U.T. Operation:

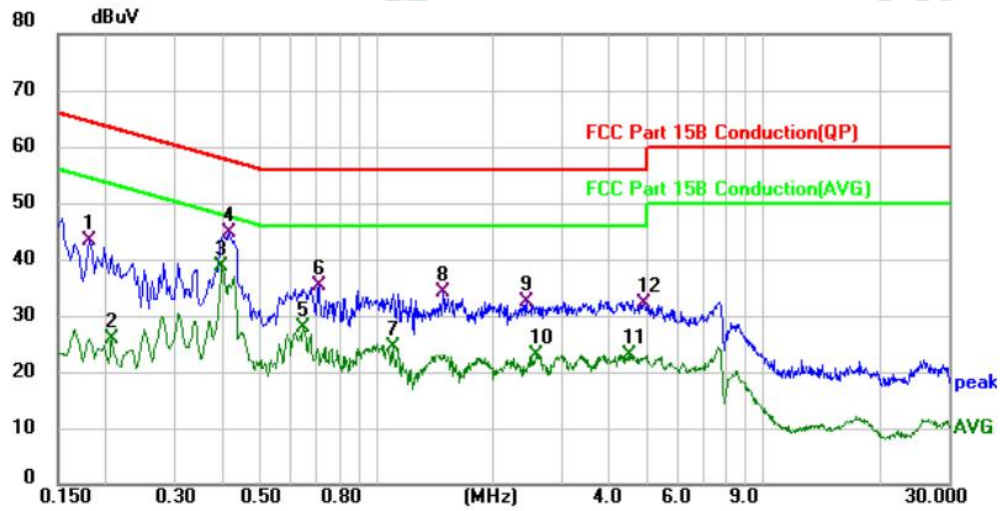
Operating Environment:					
Temperature:	22.1 °C	Humidity:	55 %	Atmospheric Pressure:	101.6 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

3.1.2 Test Setup Diagram:



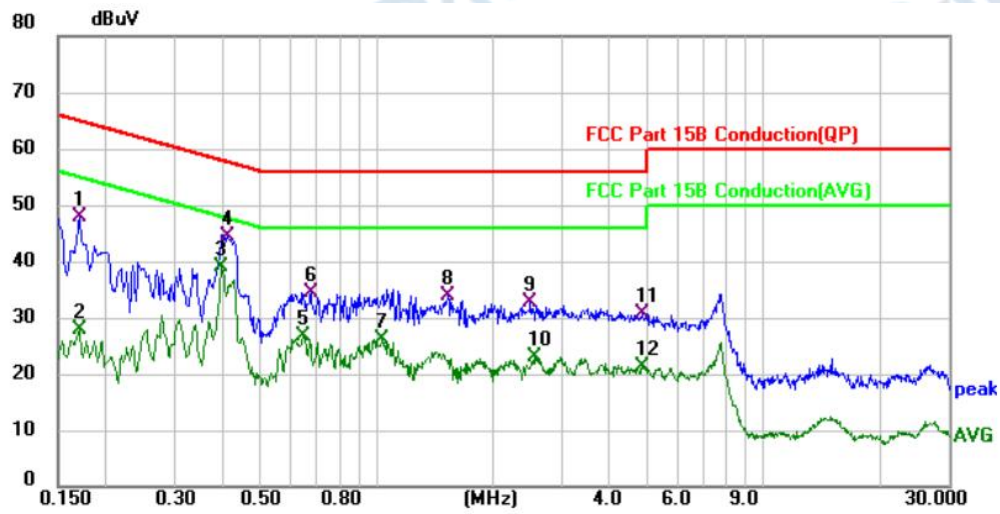
3.1.3 Test Data:

TM1 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1819	33.29	10.08	43.37	64.40	-21.03	QP	
2		0.2060	15.92	10.08	26.00	53.37	-27.37	AVG	
3	*	0.3980	28.55	10.07	38.62	47.90	-9.28	AVG	
4		0.4140	34.75	10.08	44.83	57.57	-12.74	QP	
5		0.6460	17.81	10.08	27.89	46.00	-18.11	AVG	
6		0.7100	25.32	10.09	35.41	56.00	-20.59	QP	
7		1.1019	14.28	10.08	24.36	46.00	-21.64	AVG	
8		1.4900	23.99	10.04	34.03	56.00	-21.97	QP	
9		2.4380	22.44	10.03	32.47	56.00	-23.53	QP	
10		2.5900	12.95	10.05	23.00	46.00	-23.00	AVG	
11		4.5100	12.92	10.18	23.10	46.00	-22.90	AVG	
12		4.9060	22.01	10.19	32.20	56.00	-23.80	QP	

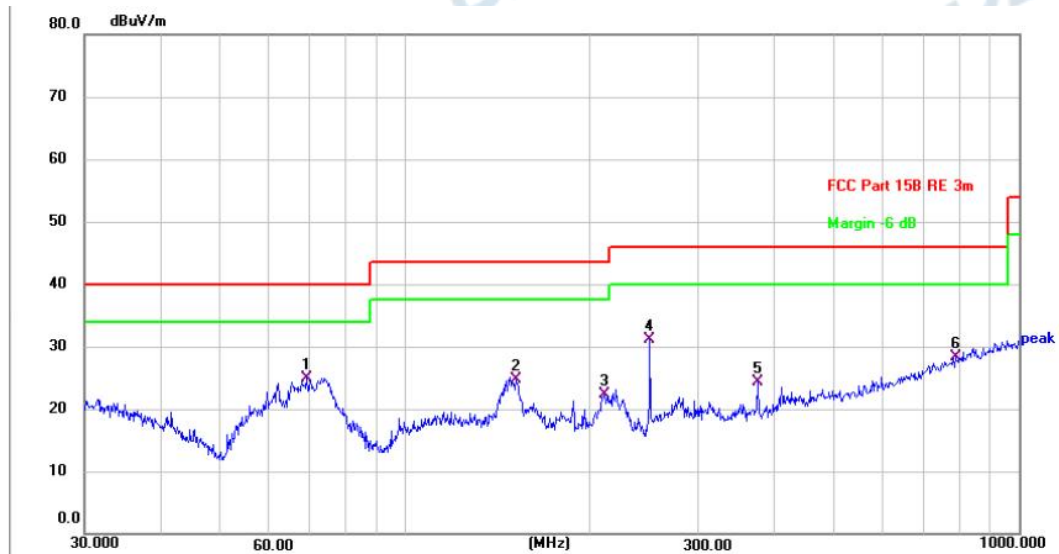
TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	37.69	10.08	47.77	64.96	-17.19	QP	
2		0.1700	17.92	10.08	28.00	54.96	-26.96	AVG	
3	*	0.3980	28.91	10.07	38.98	47.90	-8.92	AVG	
4		0.4100	34.39	10.08	44.47	57.65	-13.18	QP	
5		0.6500	16.72	10.08	26.80	46.00	-19.20	AVG	
6		0.6780	24.32	10.09	34.41	56.00	-21.59	QP	
7		1.0339	15.99	10.08	26.07	46.00	-19.93	AVG	
8		1.5339	23.90	10.05	33.95	56.00	-22.05	QP	
9		2.4900	22.59	10.03	32.62	56.00	-23.38	QP	
10		2.5660	12.93	10.04	22.97	46.00	-23.03	AVG	
11		4.8740	20.47	10.19	30.66	56.00	-25.34	QP	
12		4.8740	11.15	10.19	21.34	46.00	-24.66	AVG	

3.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	69.1141	37.78	-12.93	24.85	40.00	-15.15	QP	100		P	
2	151.5972	32.44	-7.79	24.65	43.50	-18.85	QP	100		P	
3	211.5265	32.32	-10.05	22.27	43.50	-21.23	QP	100		P	
4 *	250.3012	41.46	-10.30	31.16	46.00	-14.84	QP	100		P	
5	374.6225	30.86	-6.58	24.28	46.00	-21.72	QP	100		P	
6	787.8513	26.34	2.00	28.34	46.00	-17.66	QP	100		P	

TM1 / Polarization: Vertical



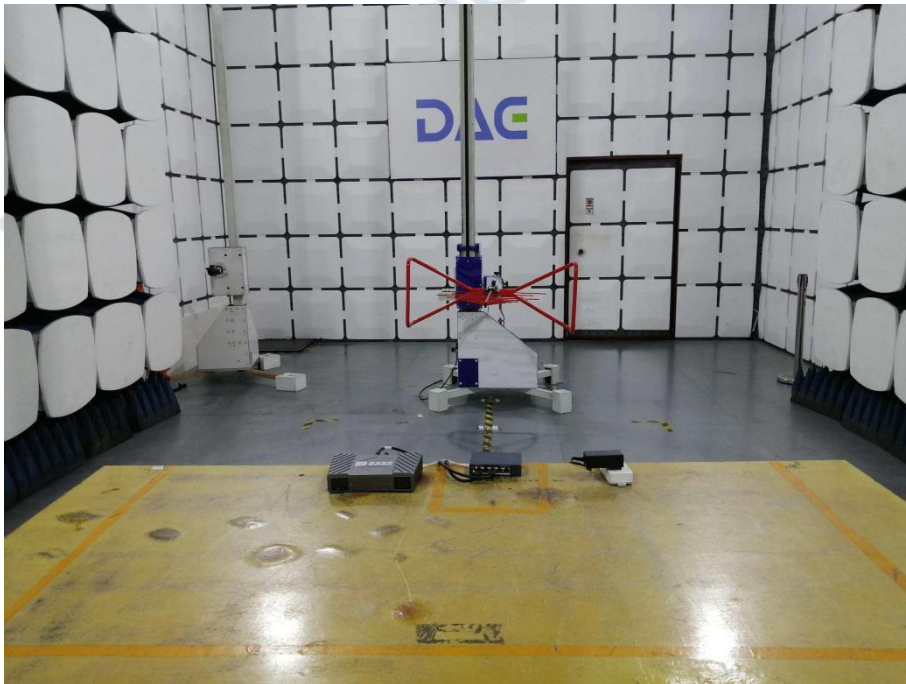
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	46.1779	40.21	-11.25	28.96	40.00	-11.04	QP	100		P	
2 !	58.2030	50.17	-13.88	36.29	40.00	-3.71	QP	100		P	
3 *	66.7325	50.12	-13.27	36.85	40.00	-3.15	QP	100		P	
4	150.5378	38.96	-8.16	30.80	43.50	-12.70	QP	100		P	
5	187.7530	38.09	-9.41	28.68	43.50	-14.82	QP	100		P	
6	250.3012	36.69	-10.30	26.39	46.00	-19.61	QP	100		P	

4 TEST SETUP PHOTOS

Conducted emissions on AC mains

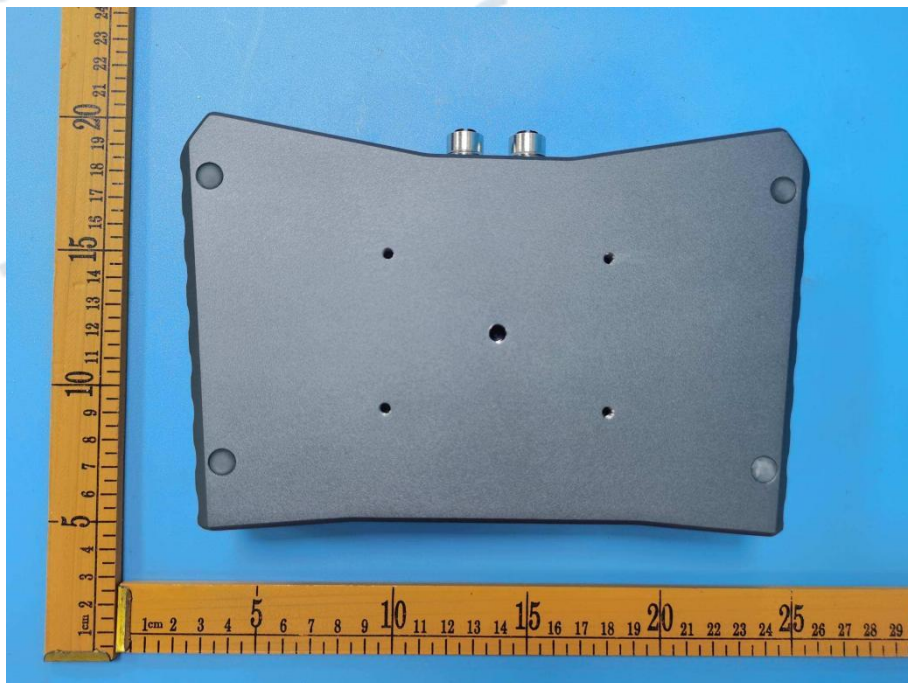


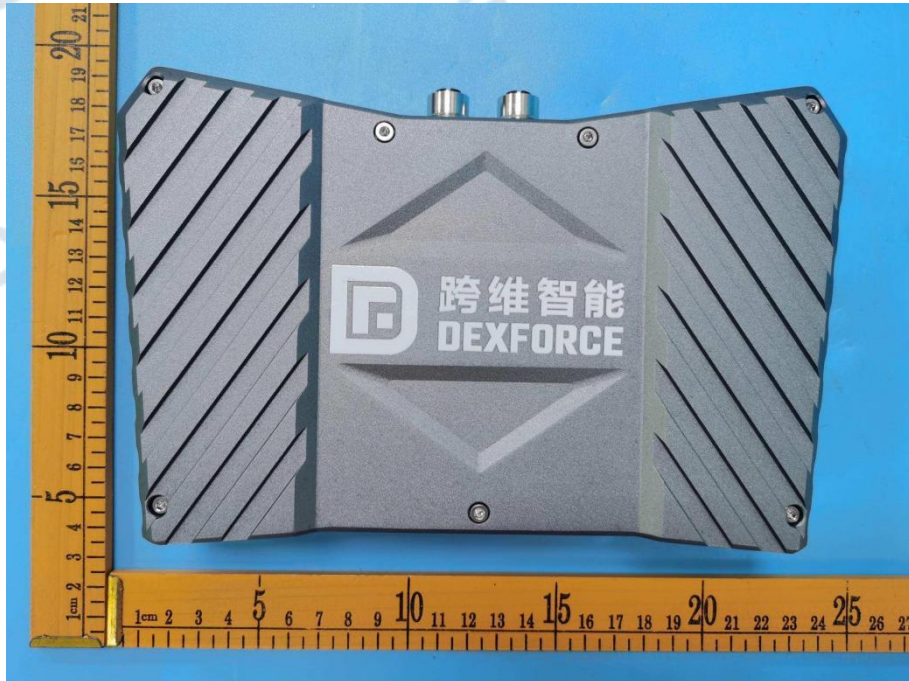
Radiated emissions (Below 1GHz)



5 PHOTOS OF THE EUT

External









***** End of Report *****