

FCC Test Report FCC ID: T8RAXNL23

Product: AXONE NEMO LIGHT

Trade Mark: TEXA

Model No.: AXONE NEMO LIGHT

Family Model: N/A

Report No.: S23112404206005

Issue Date: Jan 16, 2024

Prepared for

TEXA S.p.A

Via 1 Maggio, 9 - 31050 Monastier di Treviso (TV) - Italy

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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Website:http://www.ntek.org.cn

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TEST RESULT CERTIFICATION

Applicant's name TEXA S.p.A

Address: Via 1 Maggio, 9 - 31050 Monastier di Treviso (TV) - Italy

Manufacturer's Name...... PiPO TECHNOLOGY CO., LTD

Address Area B C, 3F, Bao Yun Da Logistics Center, Warehouse building

Xixiang Avenue, Bao An district Shenzhen China

Applicant's name....:

Address: AXONE NEMO LIGHT

Trade Mark.....: TEXA

Model name AXONE NEMO LIGHT

Family Model..... N/A

Test Sample Number.....: S231124042001

Date of Test Nov 24, 2023 ~ Jan 16, 2024

Standards..... FCC Part 15B ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Prepared .

By

(Project Engineer)

Reviewed By : Aaron Cheng

(Supervisor)

Approved :-By :-

(Manager)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard Test Item Limit Judgment							
FCC Part15B	Conducted Emission	Class B	PASS				
ANSI C63.4: 2014	Radiated Emission	Class B	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

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1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community,

Hangcheng Street, Baoan District, Shenzhen, Guangdong, China

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AXONE NEMO LIGHT			
Trade Mark	TEXA			
Model Name	AXONE NEMO LIGHT			
Family Model	N/A			
Model Difference	N/A			
	Connecting I/O port: Operation	Micro USB, Earphone		
Product Description	Frequency:	5.8GHz		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
	Model: FX36C-120300K			
Adapter	Input: 100-240V~50/60Hz 0.8A			
	Output: 12.0V3.0A (3	36W)		
Battery	DC 7.4V, 6000mAh, 44.	4Wh		
Power supply	DC 7.4V from battery or DC 12V from adapter			
HW Version	S103ANJSR100-D8GB			
FW Version	JS-BI-101-S103ANJSR100-D8GB-309-A.bin			
SW Version	Windows 11 pro 22H2 2	2621.1992		

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2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

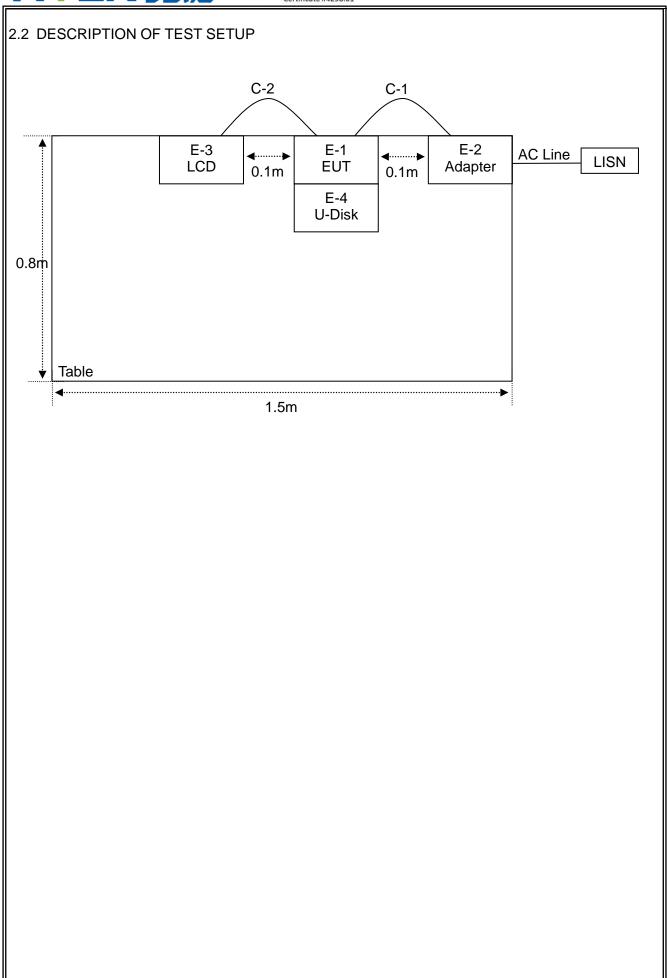
Pretest Mode	Description			
Mode 1	Burning Test(HDMI + REC(Rear) + USB)			
Mode 2	Burning Test(HDMI + REC(Front) + USB)			

For Conducted Test				
Final Test Mode Description				
Mode 1	Burning Test(HDMI + REC(Rear) + USB)			
Mode 2	Burning Test(HDMI + REC(Front) + USB)			

For Radiated Test				
Final Test Mode	Description			
Mode 1	Burning Test(HDMI + REC(Rear) + USB)			
Mode 2	Burning Test(HDMI + REC(Front) + USB)			

Note: Final Test Mode: Through Pre-scan, find the model 1 is the worst case. Only the worst case mode is recorded in the report.

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2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	AXONE NEMO LIGHT	TEXA	AXONE NEMO LIGHT	N/A	EUT
E-2	Adapter	Fengen	FX36C-120300K	N/A	EUT
E-3	LCD	SONY	KDL-24EX520	6450750	
E-4	U-Disk	SONY	SF-8C4	MMCTF08GWACA -MM	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	150cm	
C-2	YES	YES	120cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>『Length』</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Aglient	E4440A	MY4100013 0	2023.03.27	2024.03.26	1 year
2	Test Receiver	R&S	ESPI	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2023.03.27	2024.03.26	1 year
6	Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 year
8	Amplifier	EMC	EMC05183 5SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2023.05.29	2024.05.28	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2023.05.29	2024.05.28	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
15	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year

AC Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

The following table is the setting of the receiver	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

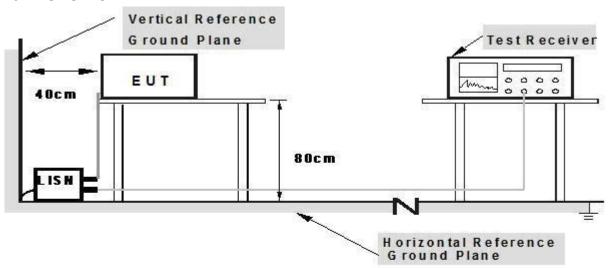
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3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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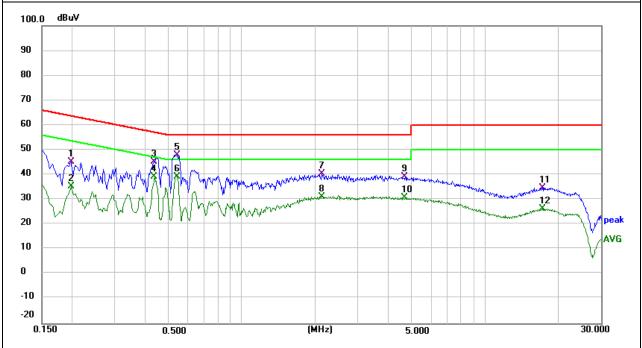
3.1.5 TEST RESULTS

EUT:	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT	
Temperature:	24.5 ℃	Relative Humidity:	52%	
Pressure:	1010hPa	Test Date:	2023/11/30	
Test Mode:	Mode 1	Phase :	L	
Test Voltage:	DC 12V from PC AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1980	35.34	10.03	45.37	63.69	-18.32	QP
0.1980	25.46	10.03	35.49	53.69	-18.20	AVG
0.4340	34.84	10.51	45.35	57.18	-11.83	QP
0.4340	28.83	10.51	39.34	47.18	-7.84	AVG
0.5420	37.21	10.73	47.94	56.00	-8.06	QP
0.5420	28.60	10.73	39.33	46.00	-6.67	AVG
2.1420	30.71	9.66	40.37	56.00	-15.63	QP
2.1420	21.57	9.66	31.23	46.00	-14.77	AVG
4.6979	29.70	9.67	39.37	56.00	-16.63	QP
4.6979	21.22	9.67	30.89	46.00	-15.11	AVG
17.2860	25.17	9.71	34.88	60.00	-25.12	QP
17.2860	16.51	9.71	26.22	50.00	-23.78	AVG

Remark:

^{2.} Factor = Insertion Loss + Cable Loss.



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^{1.} All readings are Quasi-Peak and Average values.

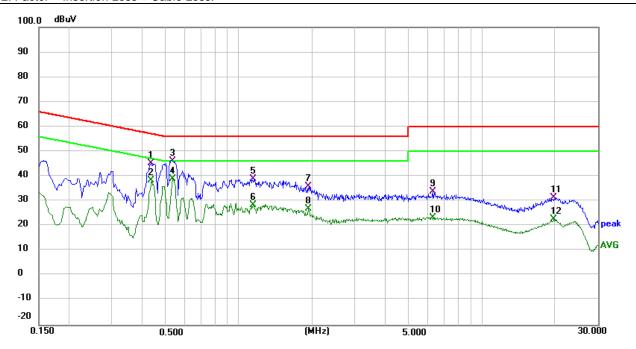


EUT:	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT	
Temperature:	24.5 ℃	Relative Humidity:	52%	
Pressure:	1010hPa	Test Date:	2023/11/30	
Test Mode:	Mode 1	Phase :	N	
Test Voltage:	DC 12V from PC AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4340	34.61	10.51	45.12	57.18	-12.06	QP
0.4340	27.90	10.51	38.41	47.18	-8.77	AVG
0.5340	35.30	10.71	46.01	56.00	-9.99	QP
0.5340	28.25	10.71	38.96	46.00	-7.04	AVG
1.1460	26.98	11.96	38.94	56.00	-17.06	QP
1.1460	16.44	11.96	28.40	46.00	-17.60	AVG
1.9380	22.27	13.54	35.81	56.00	-20.19	QP
1.9380	13.52	13.54	27.06	46.00	-18.94	AVG
6.2740	24.18	9.68	33.86	60.00	-26.14	QP
6.2740	13.63	9.68	23.31	50.00	-26.69	AVG
19.8060	21.70	9.72	31.42	60.00	-28.58	QP
19.8060	12.91	9.72	22.63	50.00	-27.37	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

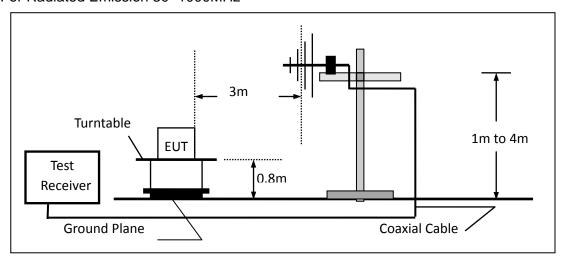
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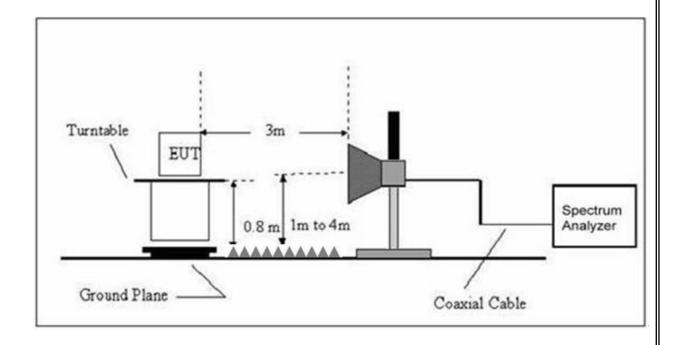
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth		
30 to 1000	QP	120 kHz	300 kHz		
	Peak	1 MHz	3 MHz		
Above 1000	Avg	1 MHz	10 Hz		

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



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3.2.4 TEST RESULTS

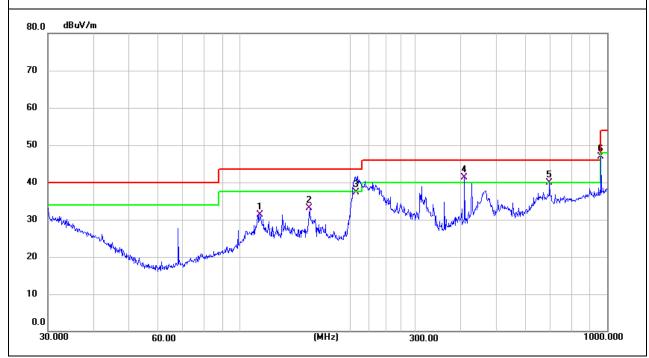
TEST RESULTS (30~1000 MHz)

EUT:	AXONE NEMO LIGHT	Model Name:	AXONE NEMO LIGHT
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024/1/2
Test Mode :	Mode 1	Polarization:	Horizontal
Test Power:	DC 12V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant
Н	113.3163	12.97	18.42	31.39	43.50	-12.11	QP
Н	154.8204	14.95	18.22	33.17	43.50	-10.33	QP
Н	207.2529	21.01	16.38	37.39	43.50	-6.11	QP
Н	408.9460	18.04	23.31	41.35	46.00	-4.65	QP
Н	696.8567	12.13	27.77	39.90	46.00	-6.10	QP
Н	962.1623	15.67	31.20	46.87	54.00	-7.13	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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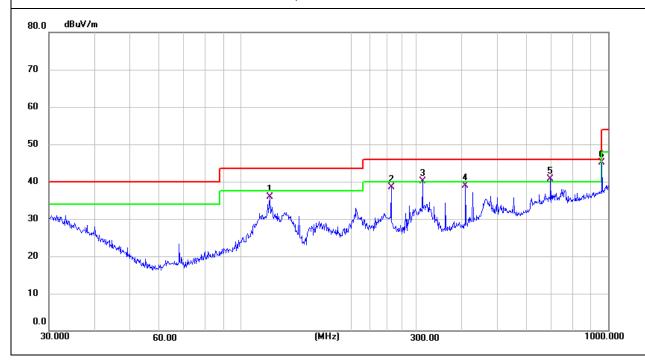


EUT:	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024/1/2
Test Mode:	Mode 1	Polarization :	Vertical
Test Power:	DC 12V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	119.8556	17.32	18.63	35.95	43.50	-7.55	QP
V	256.5211	19.28	19.13	38.41	46.00	-7.59	QP
V	312.1794	19.84	20.22	40.06	46.00	-5.94	QP
V	408.9460	15.55	23.31	38.86	46.00	-7.14	QP
V	696.8567	12.88	27.77	40.65	46.00	-5.35	QP
V	960.4500	13.94	31.18	45.12	54.00	-8.88	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT			
Temperature:	24.5 ℃	Relative Humidity:	55%			
Pressure:	1010 hPa	Test Date :	2023/11/29			
Test Mode:	Mode 1					
Test Power:	DC 12V from PC AC 120V/60Hz					

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	rtemant	
V	15416.000	53.59	1.43	55.02	74.00	-18.98	peak	
V	15416.000	36.97	1.43	38.40	54.00	-15.60	AVG	
V	16538.000	53.83	4.93	58.76	74.00	-15.24	peak	
V	16538.000	36.07	4.93	41.00	54.00	-13.00	AVG	
V	17490.000	53.10	6.27	59.37	74.00	-14.63	peak	
V	17490.000	36.27	6.27	42.54	54.00	-11.46	AVG	
Н	14396.000	52.46	3.64	56.10	74.00	-17.90	peak	
Н	14396.000	34.46	3.64	38.10	54.00	-15.90	AVG	
Н	16470.000	53.28	4.75	58.03	74.00	-15.97	peak	
Н	16470.000	36.45	4.75	41.20	54.00	-12.80	AVG	
Н	17524.000	53.87	6.30	60.17	74.00	-13.83	peak	
Н	17524.000	36.14	6.30	42.44	54.00	-11.56	AVG	

Remark:

Result = Reading + Correct, Over Limit= Result - Limit

Note: Only the worst results data points are reported in the report.

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

END OF REPORT

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