

FCC RADIO TEST REPORT

FCC ID: T8RAXNL23

Product: AXONE NEMO LIGHT
Trade Mark: TEXA
Model No.: AXONE NEMO LIGHT
Family Model: N/A
Report No.: S23112404206004
Issue Date: Jan 16, 2024

Prepared for

TEXA S.p.A

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

Prepared by

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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

Product description

Product name.....: AXONE NEMO LIGHT
Trade Mark.....: TEXA
Model and/or type reference : AXONE NEMO LIGHT
Family Model.....: N/A
Test Sample Number.....: S231124042001
Date of Test.....: Nov 24, 2023 ~ Jan 16, 2024

Standards.....: FCC Part15.407

Test procedure..... ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedures New Rules
v02r01

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

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(4)	Spurious Radiated Emissions	PASS	
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS	
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS	
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^\circ\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AXONE NEMO LIGHT		
Trade Mark	TEXA		
FCC ID	T8RAXNL23		
Model Name	AXONE NEMO LIGHT		
Family Model	N/A		
Model Difference	N/A		
Product Description	IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a/n/ac (20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n/ac (40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac (80MHz channel bandwidth)	
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;	
	Operating Frequency Range	<input checked="" type="checkbox"/> 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5190-5230MHz for 802.11n(HT40)/ac(VHT40); 5210MHz for 802.11ac(VHT80) <input checked="" type="checkbox"/> 5745-5825 MHz for 802.11a/n(HT20)/ac(VHT20); 5755-5795 MHz for 802.11n(HT40)/ac(VHT40); 5775MHz for 802.11ac(VHT80)	
	Number of Channels	<input checked="" type="checkbox"/> 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; <input checked="" type="checkbox"/> 5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;	
	Antenna Type	FPCB Antenna	
	Antenna Gain	Ant 1:2.96 dBi; Ant 2:2.69 dBi	
	Smart system	<input checked="" type="checkbox"/> SISO for 802.11a/n/ac <input type="checkbox"/> MIMO for 802.11n/ac	
			Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.
	Adapter	Model: FX36C-120300K Input: 100-240V~50/60Hz 0.8A Output: 12.0V---3.0A (36W)	
Battery	DC 7.4V, 6000mAh, 44.4Wh		
Power supply	DC 7.4V from battery or DC 12V from adapter		
Connecting I/O Port(s)	Please refer to the User's Manual		
HW Version	S103ANJSR100-D8GB		
FW Version	JS-BI-101-S103ANJSR100-D8GB-309-A.bin		
SW Version	Windows 11 pro 22H2 22621.1992		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list for 802.11a/n/ac(20MHz) band I (5180-5240MHz):

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band I (5190-5230MHz):

802.11n/ac(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

Frequency and Channel list for 802.11ac(80MHz) band I (5210MHz):

802.11ac(80MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band IV (5755-5795MHz):

802.11n/ac(40MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

Frequency and Channel list for 802.11ac(80MHz) band IV (5775MHz):

802.11ac(80MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	-	-	-	-

2.2 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	Normal Link Mode
Mode 2	802.11a / n 20 / ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

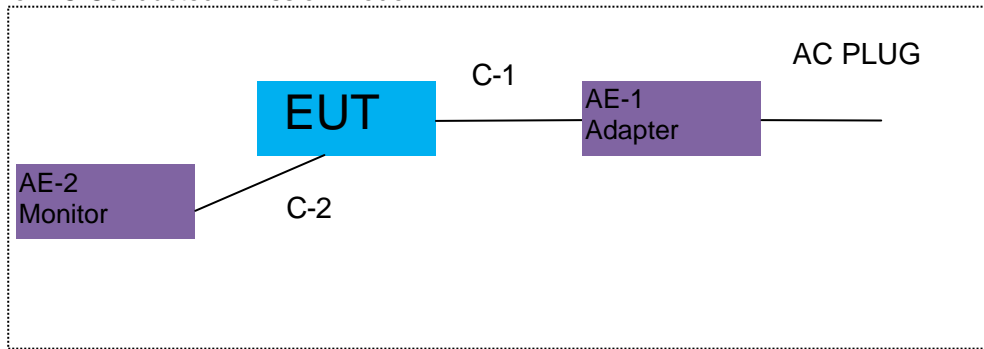
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 / ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

Note:

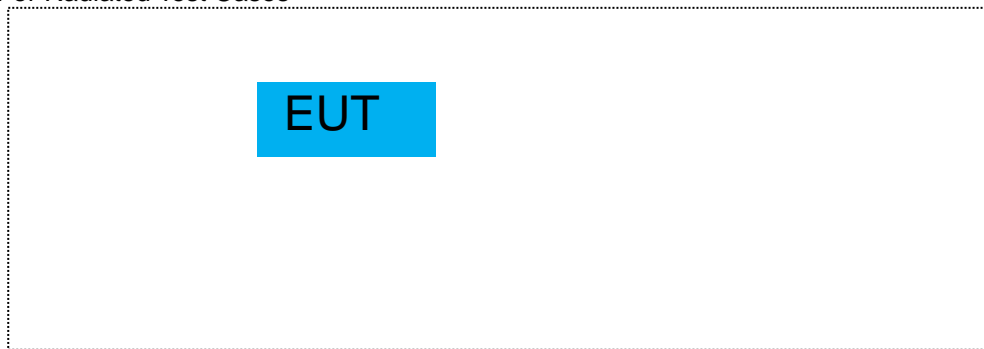
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

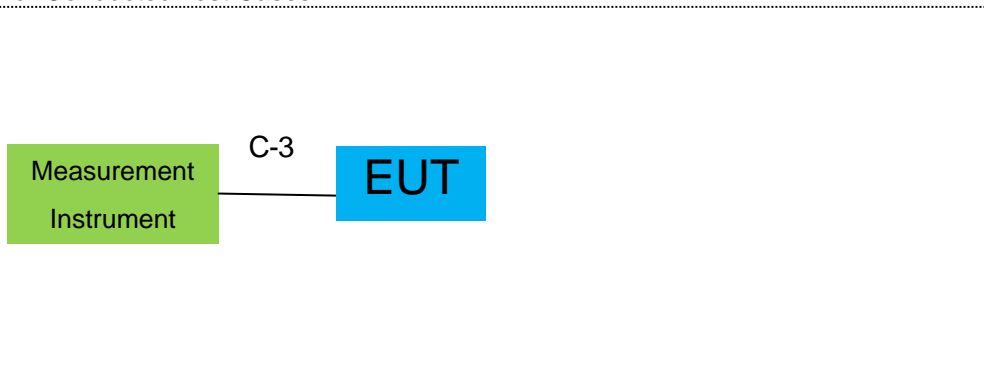
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
 2.EUT built-in battery-powered, the battery is fully-charged.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
AE-1	Adapter	FX36C-120300K	N/A	Peripherals
AE-2	Monitor	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	Power Cable	YES	NO	1.0m
C-3	RF Cable	YES	NO	0.1m

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 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY4510804 0	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY4910006 0	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2025.11.06	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.11.03	2026.11.02	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2023.05.29	2024.05.28	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2023.03.26	2026.03.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration 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	SCHWARZBECK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	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& Aux Equipment which is scheduled for calibration every 3 years.

3. TEST REQUIREMENTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

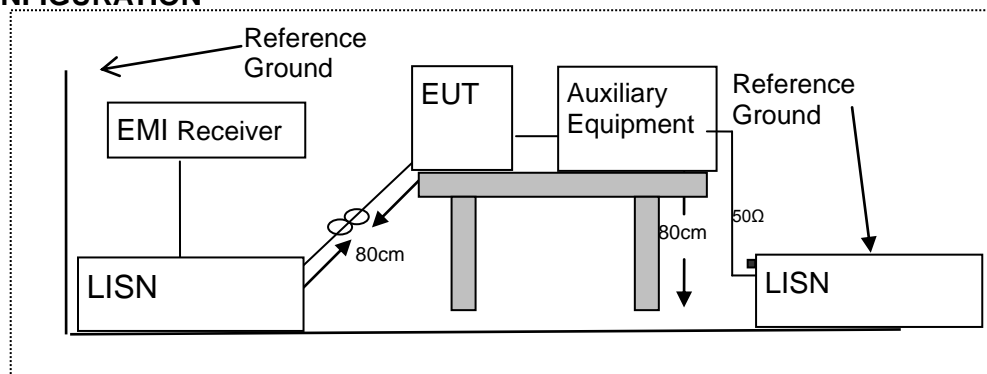
According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT 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.
4. 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 40cm long.
5. 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.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

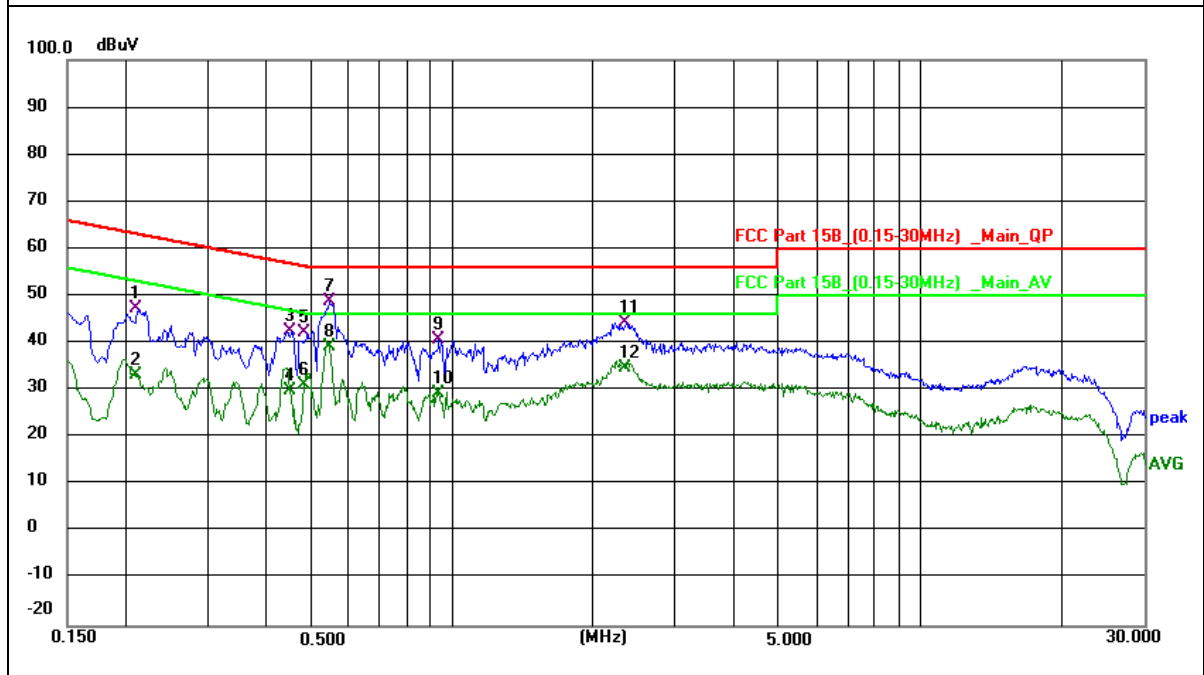
3.1.5 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT
Temperature :	22°C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measurement (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2104	37.17	10.06	47.23	63.19	-15.96	QP
0.2104	23.26	10.06	33.32	53.19	-19.87	AVG
0.4500	31.86	10.55	42.41	56.88	-14.47	QP
0.4500	19.40	10.55	29.95	46.88	-16.93	AVG
0.4820	31.66	10.61	42.27	56.30	-14.03	QP
0.4820	20.67	10.61	31.28	46.30	-15.02	AVG
0.5460	38.22	10.75	48.97	56.00	-7.03	QP
0.5460	28.52	10.75	39.27	46.00	-6.73	AVG
0.9340	29.18	11.52	40.70	56.00	-15.30	QP
0.9340	17.89	11.52	29.41	46.00	-16.59	AVG
2.3420	34.84	9.66	44.50	56.00	-11.50	QP
2.3420	25.17	9.66	34.83	46.00	-11.17	AVG

Remark:

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

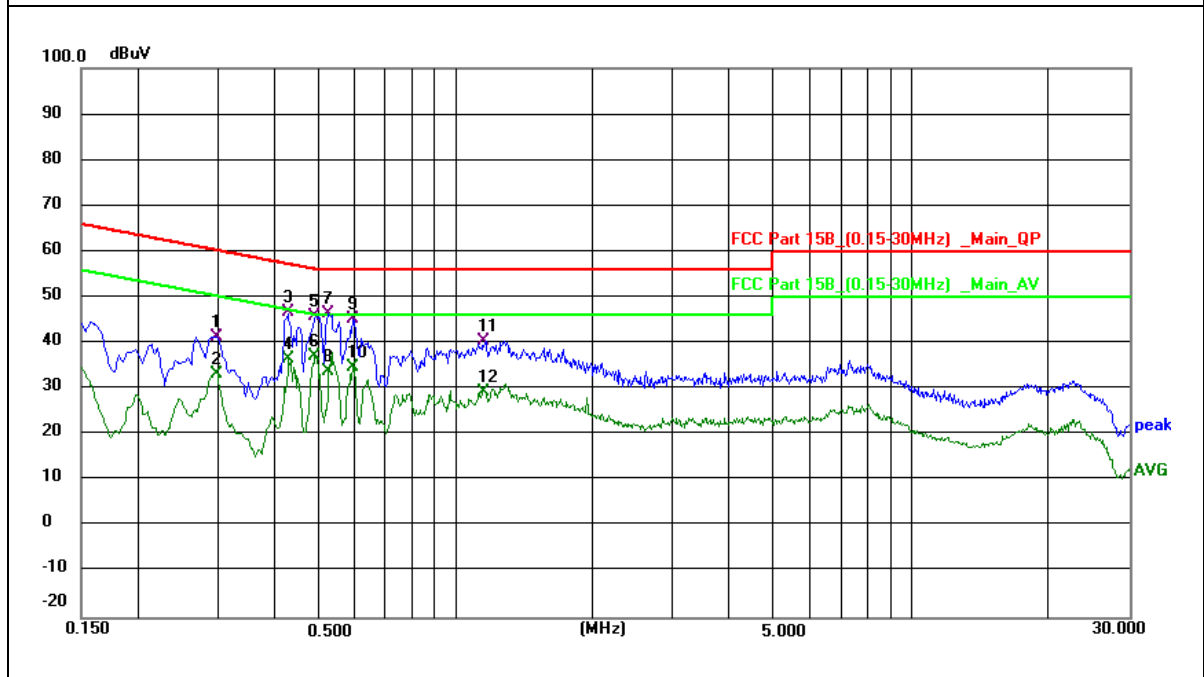


EUT :	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT
Temperature :	22°C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2980	31.26	10.24	41.50	60.30	-18.80	QP
0.2980	22.91	10.24	33.15	50.30	-17.15	AVG
0.4260	36.09	10.51	46.60	57.33	-10.73	QP
0.4260	26.01	10.51	36.52	47.33	-10.81	AVG
0.4900	35.30	10.63	45.93	56.17	-10.24	QP
0.4900	26.38	10.63	37.01	46.17	-9.16	AVG
0.5220	35.66	10.69	46.35	56.00	-9.65	QP
0.5220	23.07	10.69	33.76	46.00	-12.24	AVG
0.5940	34.47	10.83	45.30	56.00	-10.70	QP
0.5940	24.05	10.83	34.88	46.00	-11.12	AVG
1.1539	28.57	11.96	40.53	56.00	-15.47	QP
1.1539	17.35	11.96	29.31	46.00	-16.69	AVG

Remark:

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

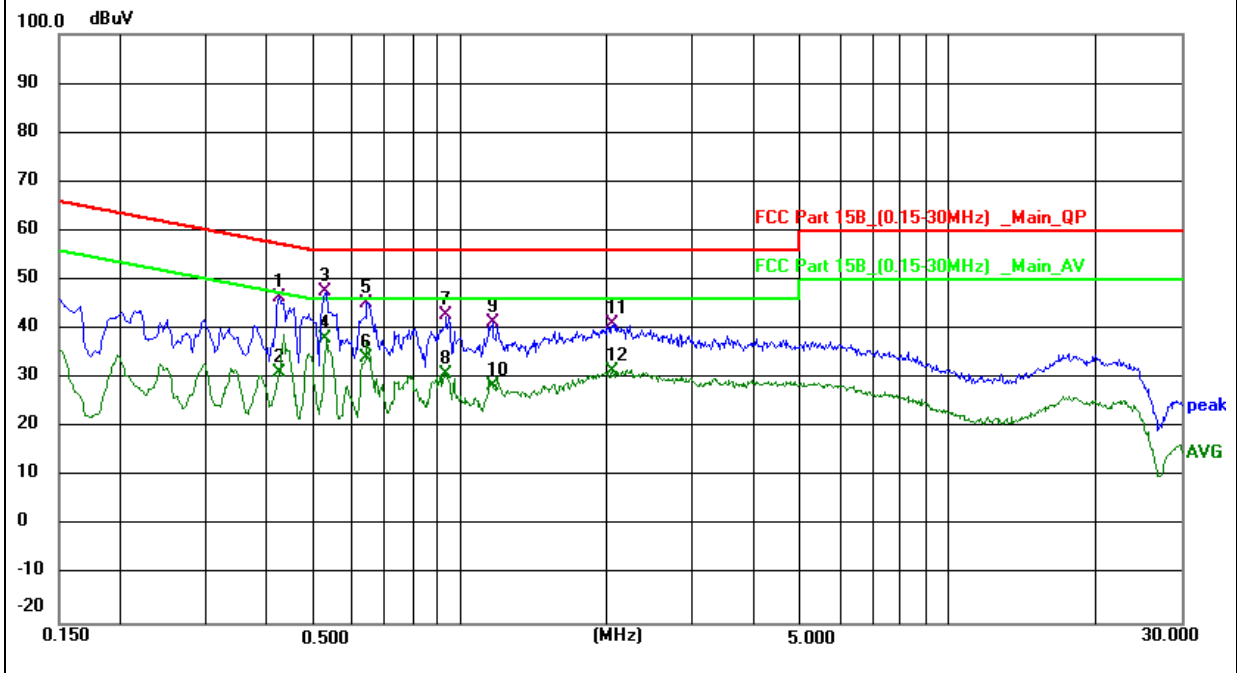


EUT :	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT
Temperature :	22 °C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.4237	36.10	10.49	46.59	57.38	-10.79	QP
0.4237	20.72	10.49	31.21	47.38	-16.17	AVG
0.5299	37.04	10.71	47.75	56.00	-8.25	QP
0.5299	27.28	10.71	37.99	46.00	-8.01	AVG
0.6380	34.43	10.93	45.36	56.00	-10.64	QP
0.6380	23.29	10.93	34.22	46.00	-11.78	AVG
0.9300	31.18	11.52	42.70	56.00	-13.30	QP
0.9300	19.25	11.52	30.77	46.00	-15.23	AVG
1.1620	29.31	11.98	41.29	56.00	-14.71	QP
1.1620	16.45	11.98	28.43	46.00	-17.57	AVG
2.0460	31.28	9.66	40.94	56.00	-15.06	QP
2.0460	21.79	9.66	31.45	46.00	-14.55	AVG

Remark:

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

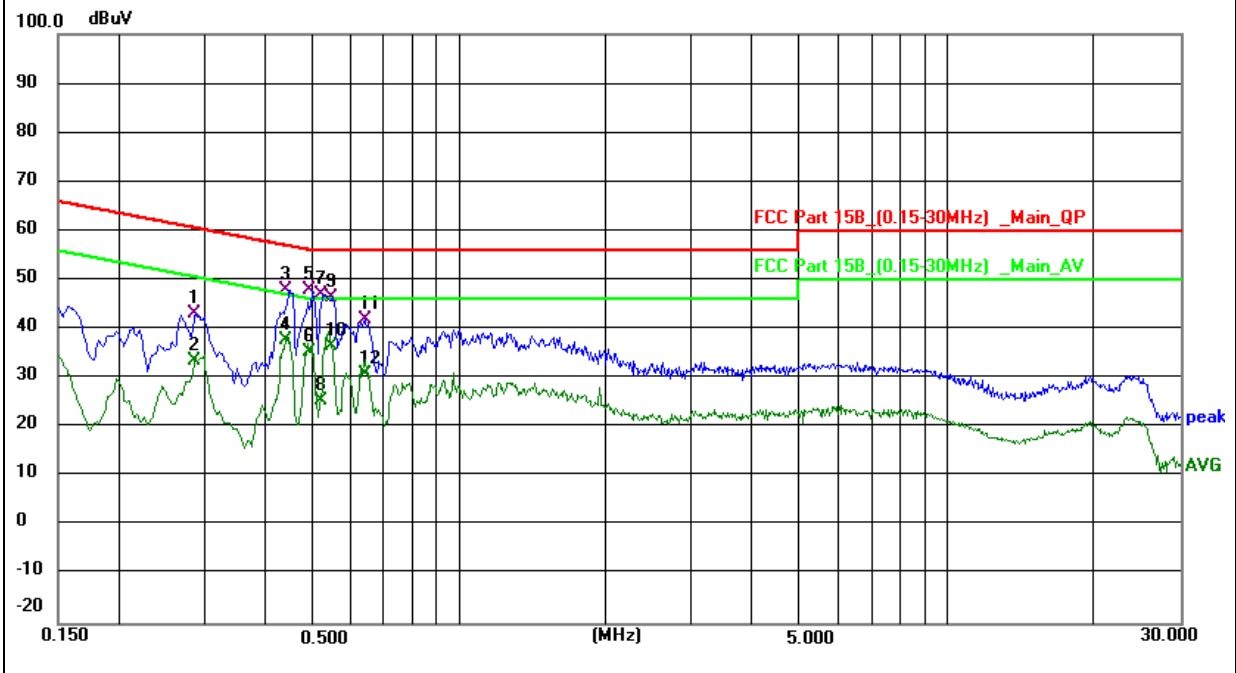


EUT :	AXONE NEMO LIGHT	Model Name :	AXONE NEMO LIGHT
Temperature :	22 °C	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2862	32.86	10.22	43.08	60.63	-17.55	QP
0.2862	23.47	10.22	33.69	50.63	-16.94	AVG
0.4420	37.46	10.53	47.99	57.02	-9.03	QP
0.4420	27.24	10.53	37.77	47.02	-9.25	AVG
0.4940	37.20	10.63	47.83	56.10	-8.27	QP
0.4940	24.74	10.63	35.37	46.10	-10.73	AVG
0.5181	36.36	10.69	47.05	56.00	-8.95	QP
0.5181	14.86	10.69	25.55	46.00	-20.45	AVG
0.5463	35.74	10.75	46.49	56.00	-9.51	QP
0.5463	25.88	10.75	36.63	46.00	-9.37	AVG
0.6380	31.09	10.93	42.02	56.00	-13.98	QP
0.6380	19.90	10.93	30.83	46.00	-15.17	AVG

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	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
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	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	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			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Field Strength ($\text{dB}\mu\text{V}/\text{m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V}/\text{m}$)	30
1.705-30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B ($\text{dB}\mu\text{V}/\text{m}$) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark : 1. Emission level in $\text{dB}\mu\text{V}/\text{m}=20 \log (\mu\text{V}/\text{m})$

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor = $40 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$;

Limit line=Specific limits($\text{dB}\mu\text{V}$) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor = $20 \log (\text{Specific distance}/ \text{test distance})(\text{dB})$;

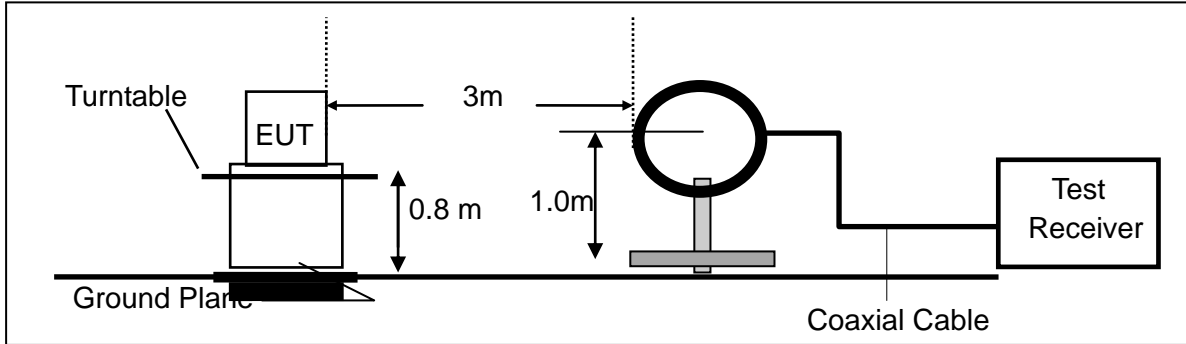
Limit line=Specific limits($\text{dB}\mu\text{V}$) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

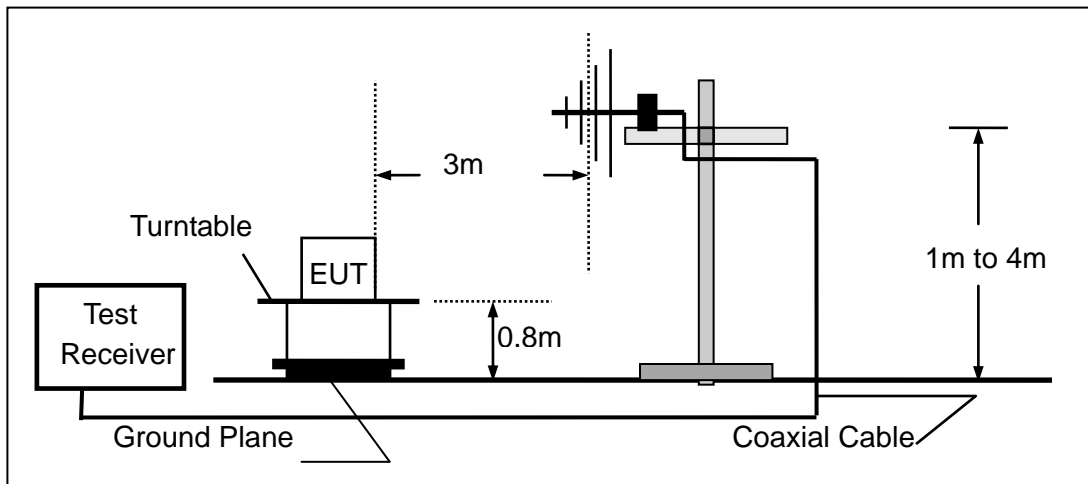
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

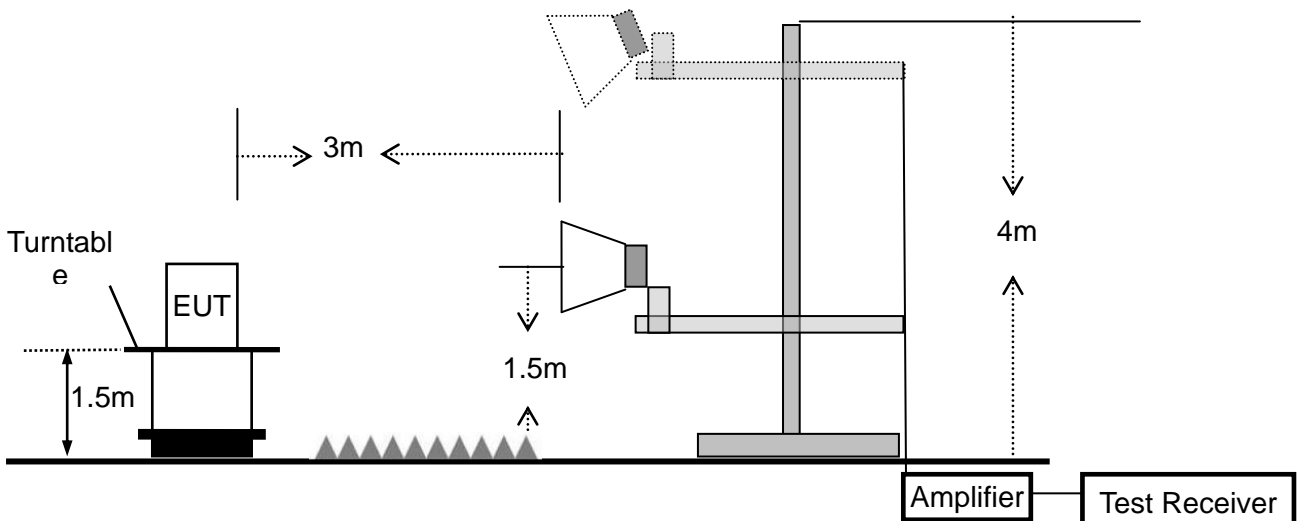
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz]/\text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

3.2.6 TEST RESULTS (9KHz – 30 MHz)

EUT:	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX	Polarization :	--

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

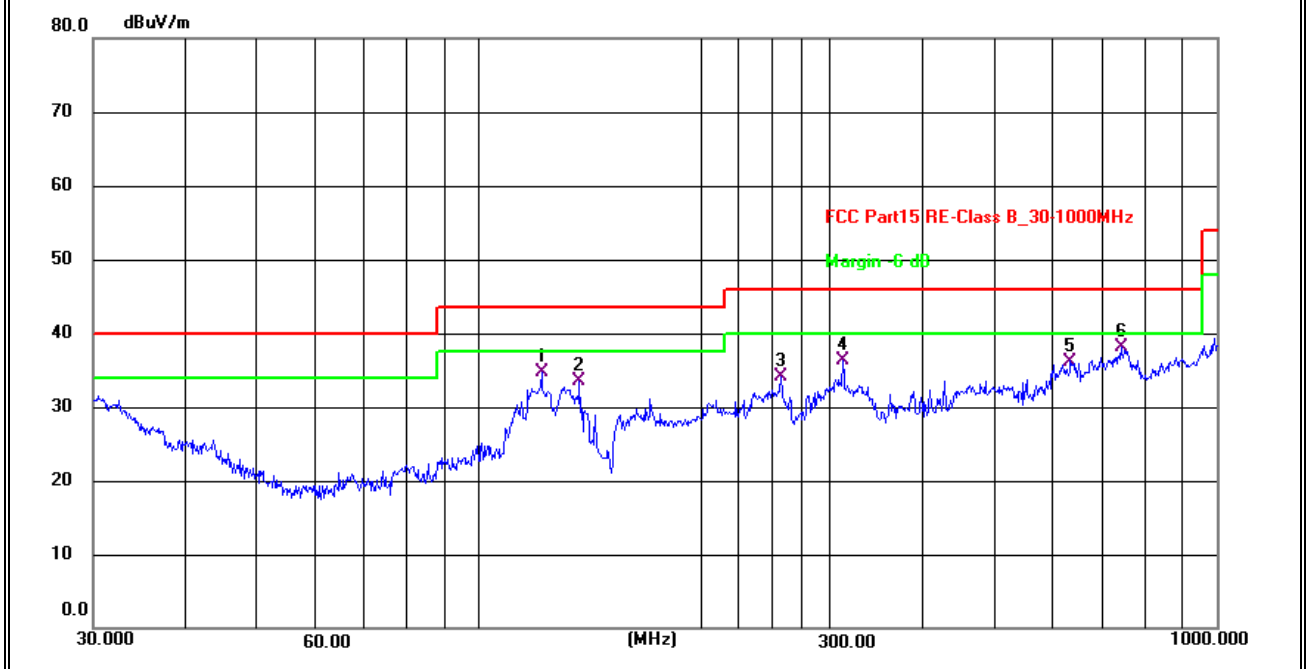
3.2.7 TEST RESULTS (30MHz – 1GHz)

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX(5.2G)- 802.11ac20 (Mid CH) Ant1		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	121.5485	15.97	18.64	34.61	43.50	-8.89	QP
V	136.9390	14.85	18.63	33.48	43.50	-10.02	QP
V	256.5210	14.92	19.13	34.05	46.00	-11.95	QP
V	311.0865	16.06	20.20	36.26	46.00	-9.74	QP
V	633.9071	9.40	26.80	36.20	46.00	-9.80	QP
V	742.2586	9.47	28.57	38.04	46.00	-7.96	QP

Remark:

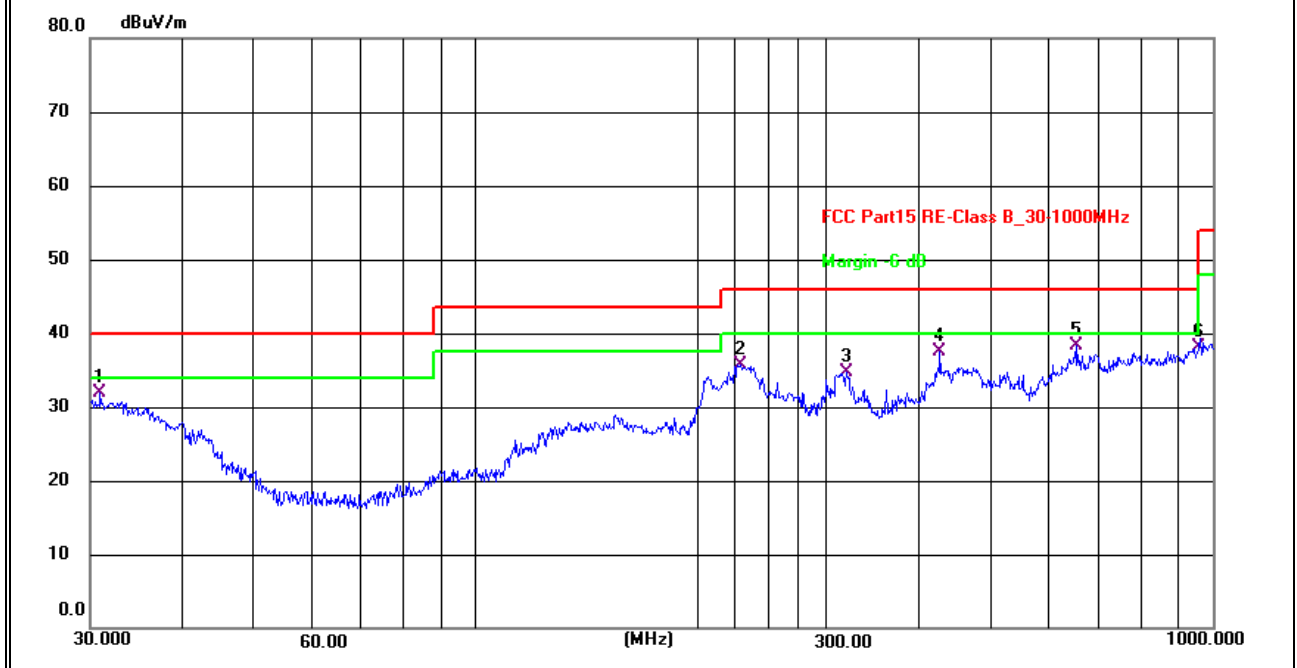
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.9618	5.94	25.88	31.82	40.00	-8.18	QP
H	228.4901	18.60	17.20	35.80	46.00	-10.20	QP
H	318.8170	14.42	20.37	34.79	46.00	-11.21	QP
H	426.5210	13.84	23.68	37.52	46.00	-8.48	QP
H	654.2318	11.23	27.13	38.36	46.00	-7.64	QP
H	958.7943	6.91	31.18	38.09	46.00	-7.91	QP

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Note(1) "802.11ac20" mode is the worst mode.

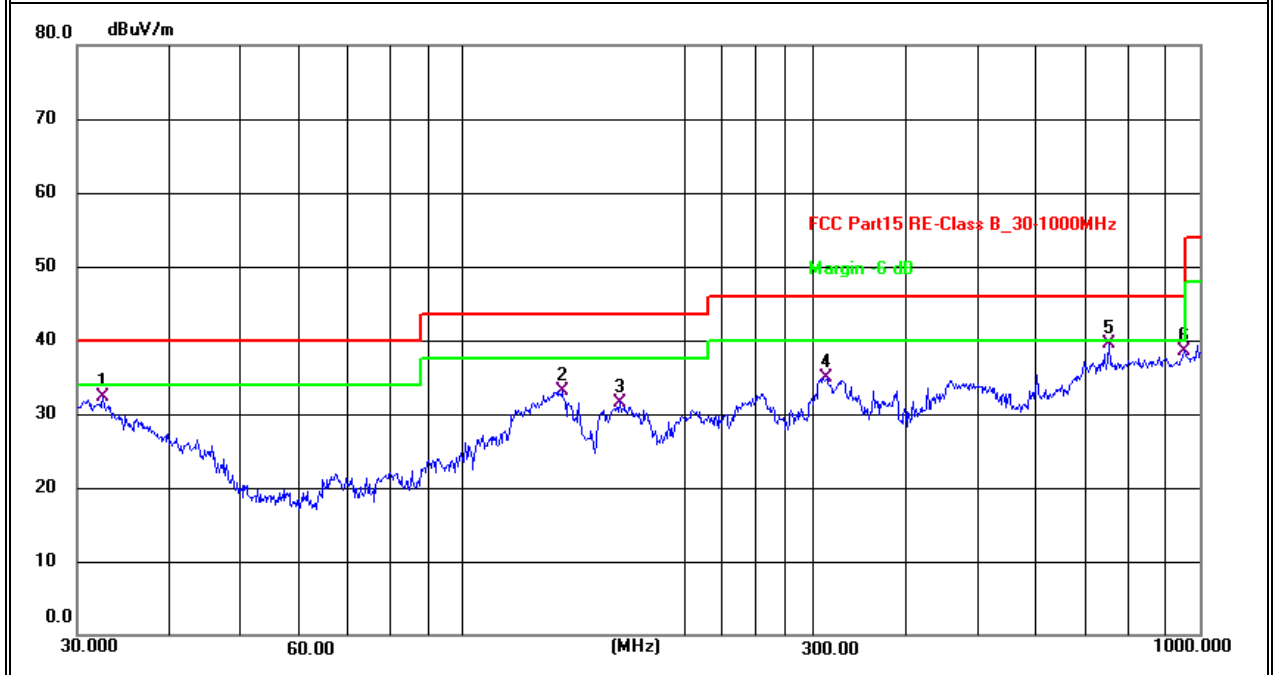
(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX(5.8G)- 802.11ac20(Mid CH) Ant1		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.5197	7.34	25.02	32.36	40.00	-7.64	QP
V	136.4598	14.45	18.64	33.09	43.50	-10.41	QP
V	163.1817	13.87	17.73	31.60	43.50	-11.90	QP
V	312.1792	14.66	20.22	34.88	46.00	-11.12	QP
V	752.7431	10.83	28.71	39.54	46.00	-6.46	QP
V	952.0937	7.30	31.17	38.47	46.00	-7.53	QP

Remark:

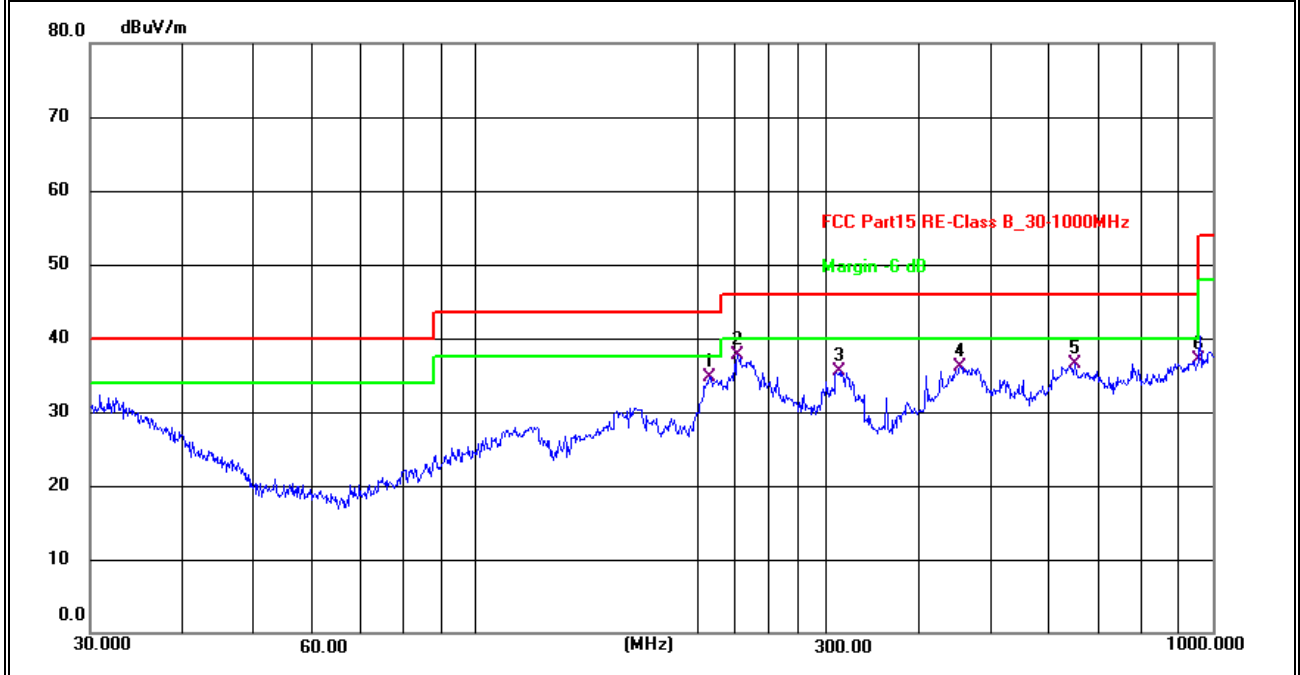
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	207.8500	18.25	16.39	34.64	43.50	-8.86	QP
H	226.8934	20.54	17.14	37.68	46.00	-8.32	QP
H	312.1792	15.30	20.22	35.52	46.00	-10.48	QP
H	454.3100	11.97	24.13	36.10	46.00	-9.90	QP
H	649.6594	9.37	27.05	36.42	46.00	-9.58	QP
H	958.7943	5.91	31.18	37.09	46.00	-8.91	QP

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Note(1)“802.11ac20” mode is the worst mode.

(2)Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX(5.2G) - 802.11ac20 mode		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.60	61.90	5.94	35.40	44.00	59.24	74.00	-14.76	Pk
Vertical	3694.56	42.62	5.94	35.40	44.00	39.96	54.00	-14.04	AV
Vertical	10360.56	58.70	8.46	39.75	44.50	62.41	68.20	-5.79	Pk
Vertical	15540.67	61.14	10.12	38.80	44.10	65.96	74.00	-8.04	Pk
Vertical	15540.54	39.94	10.12	38.80	42.70	46.16	54.00	-7.84	AV
Horizontal	3713.36	63.77	5.94	35.18	44.00	60.89	74.00	-13.11	Pk
Horizontal	3713.27	44.13	5.94	35.18	44.00	41.25	54.00	-12.75	AV
Horizontal	10360.92	59.05	8.46	38.71	44.50	61.72	68.20	-6.48	Pk
Horizontal	15540.80	57.86	10.12	38.38	44.10	62.26	74.00	-11.74	Pk
Horizontal	15540.92	41.10	10.12	38.38	44.10	45.50	54.00	-8.50	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3624.60	58.94	6.48	36.35	44.05	57.72	74.00	-16.28	Pk
Vertical	3624.67	43.20	6.48	36.35	44.05	41.98	54.00	-12.02	AV
Vertical	10400.64	60.37	8.47	37.88	44.51	62.21	68.20	-5.99	Pk
Vertical	15600.48	60.45	10.12	38.80	44.10	65.27	74.00	-8.73	Pk
Vertical	15600.56	40.07	10.12	38.80	42.70	46.29	54.00	-7.71	AV
Horizontal	4202.41	58.57	6.48	36.37	44.05	57.37	74.00	-16.63	Pk
Horizontal	4202.52	45.39	6.48	36.37	44.05	44.19	54.00	-9.81	AV
Horizontal	10400.42	61.89	8.47	38.64	44.50	64.50	68.20	-3.70	Pk
Horizontal	15600.87	60.48	10.12	38.38	44.10	64.88	74.00	-9.12	Pk
Horizontal	15600.94	41.65	10.12	38.38	44.10	46.05	54.00	-7.95	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4598.22	64.32	7.10	37.24	43.50	65.16	74.00	-8.84	Pk
Vertical	4598.17	43.68	7.10	37.24	43.50	44.52	54.00	-9.48	AV
Vertical	10480.57	60.41	8.46	37.68	44.50	62.05	68.20	-6.15	Pk
Vertical	15720.71	61.67	10.12	38.80	44.10	66.49	74.00	-7.51	Pk
Vertical	15720.51	40.58	10.12	38.80	42.70	46.80	54.00	-7.20	AV
Horizontal	4589.79	61.46	7.10	37.24	43.50	62.30	74.00	-11.70	Pk
Horizontal	4589.60	41.71	7.10	37.24	43.50	42.55	54.00	-11.45	AV
Horizontal	10480.97	62.37	8.46	38.57	44.50	64.90	68.20	-3.30	Pk
Horizontal	15720.52	59.90	10.12	38.38	44.10	64.30	74.00	-9.70	Pk
Horizontal	15720.43	43.44	10.12	38.38	44.10	47.84	54.00	-6.16	AV

Note:"802.11ac20" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported. Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX (5.8G) -- 802.11ac20 mode		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-802.11a									
Vertical	5122.94	64.04	5.94	35.40	44.00	61.38	74.00	-12.62	Pk
Vertical	5122.98	45.79	5.94	35.40	44.00	43.13	54.00	-10.87	AV
Vertical	11491.02	60.57	8.46	39.75	44.50	64.28	74.00	-9.72	Pk
Vertical	11490.94	43.71	8.46	39.75	44.50	47.42	54.00	-6.58	AV
Vertical	17235.88	52.37	10.12	38.80	44.10	57.19	68.20	-11.01	Pk
Horizontal	5167.17	59.94	5.94	35.18	44.00	57.06	68.20	-11.14	Pk
Horizontal	11490.88	59.31	8.46	38.71	44.50	61.98	74.00	-12.02	Pk
Horizontal	11490.75	42.82	8.46	38.71	44.50	45.49	54.00	-8.51	AV
Horizontal	17235.82	51.61	10.12	38.38	44.10	56.01	68.20	-12.19	Pk
middle Channel (5785 MHz)-802.11a									
Vertical	5433.65	63.01	6.48	36.35	44.05	61.79	74.00	-12.21	Pk
Vertical	5433.67	43.38	6.48	36.35	44.05	42.16	54.00	-11.84	AV
Vertical	11570.94	60.91	8.47	37.88	44.51	62.75	74.00	-11.25	Pk
Vertical	11570.66	43.56	8.47	37.88	44.51	45.40	54.00	-8.60	AV
Vertical	17356.36	56.12	10.12	38.80	44.10	60.94	68.20	-7.26	Pk
Horizontal	4866.98	60.42	6.48	36.37	44.05	59.22	74.00	-14.78	Pk
Horizontal	4867.05	42.98	6.48	36.37	44.05	41.78	54.00	-12.22	AV
Horizontal	11570.73	63.04	8.47	38.64	44.50	65.65	74.00	-8.35	Pk
Horizontal	11570.75	44.19	8.47	38.64	44.50	46.80	54.00	-7.20	AV
Horizontal	17355.82	56.70	10.12	38.38	44.10	61.10	68.20	-7.10	Pk
High Channel (5825 MHz)-802.11a									
Vertical	5243.64	61.95	7.10	37.24	43.50	62.79	68.20	-5.41	Pk
Vertical	11651.61	61.91	8.46	37.68	44.50	63.55	74.00	-10.45	Pk
Vertical	11651.62	43.35	8.46	37.68	44.50	44.99	54.00	-9.01	AV
Vertical	17472.92	60.75	10.12	38.80	44.10	65.57	68.20	-2.63	Pk
Vertical	17473.14	60.75	10.12	38.80	44.10	65.57	68.20	-2.63	Pk
Horizontal	5284.47	60.29	7.10	37.24	43.50	61.13	68.20	-7.07	Pk
Horizontal	11652.07	60.49	8.46	38.57	44.50	63.02	74.00	-10.98	Pk
Horizontal	11651.84	41.88	8.46	38.57	44.50	44.41	54.00	-9.59	AV
Horizontal	17474.07	58.42	10.12	38.38	44.10	62.82	68.20	-5.38	Pk
Horizontal	17474.02	58.41	10.12	38.38	44.10	62.81	68.20	-5.39	Pk

Note:"802.11ac20" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

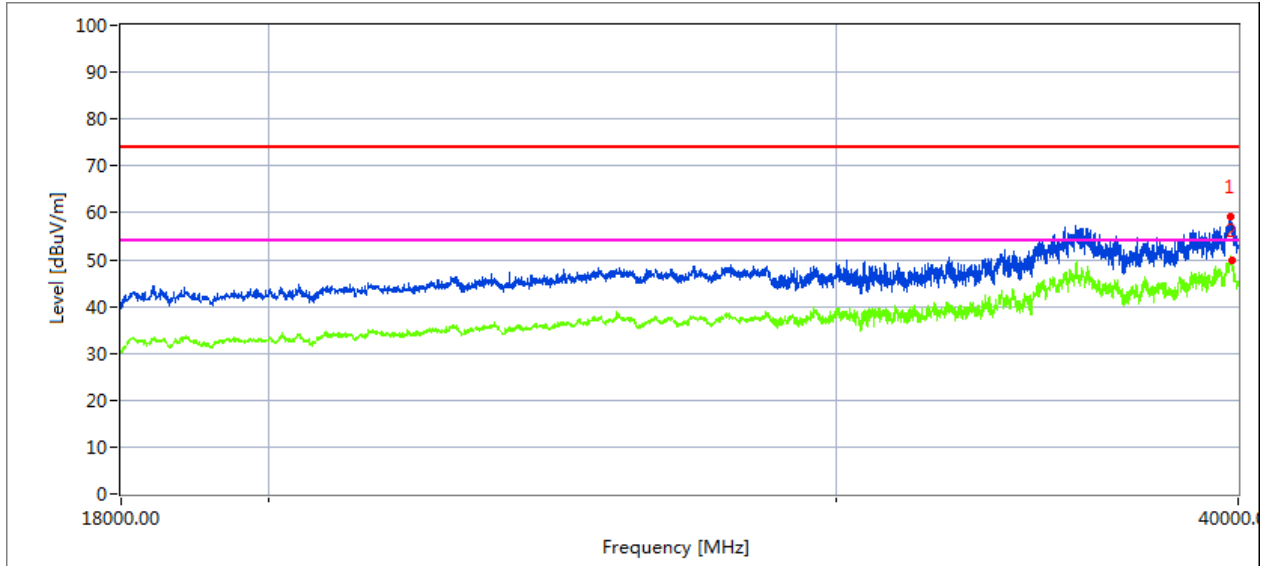
3.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX (5.2G)-802.11ac20 mode TX (5.8G)-802.11ac20 mode		

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

Low Channel (5180 MHz)-Above 1G

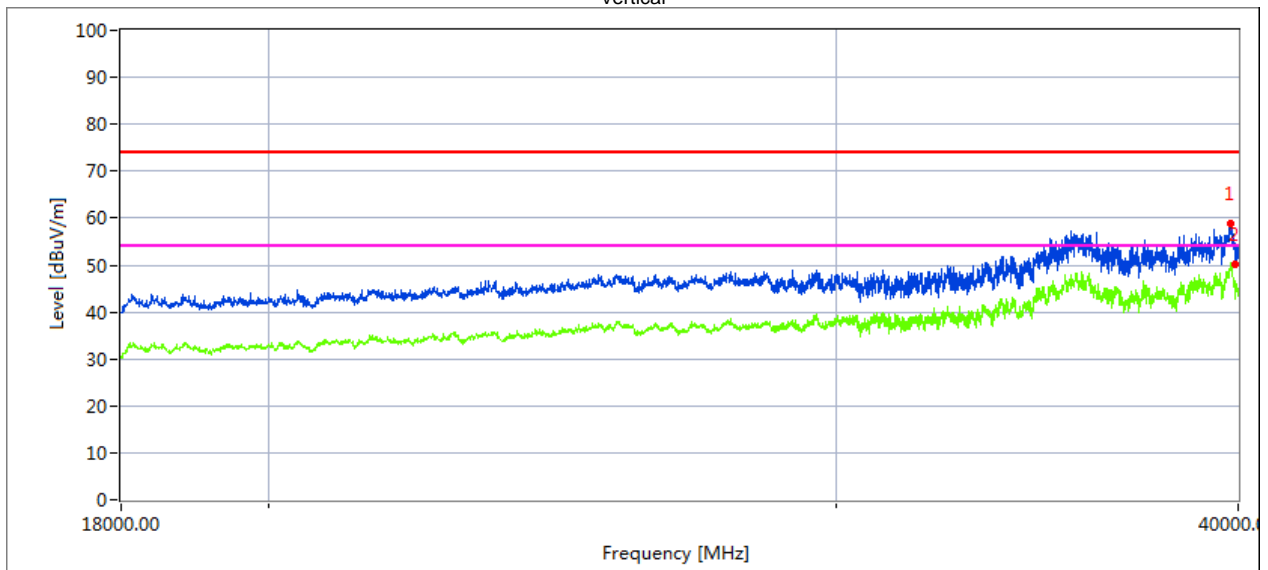
Horizontal



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.03	39.13	20.09	44.07	43.48	59.81	68.2	8.39	Peak
39766.73	27.28	20.09	44.04	43.48	47.93	54	6.07	AVG

Vertical

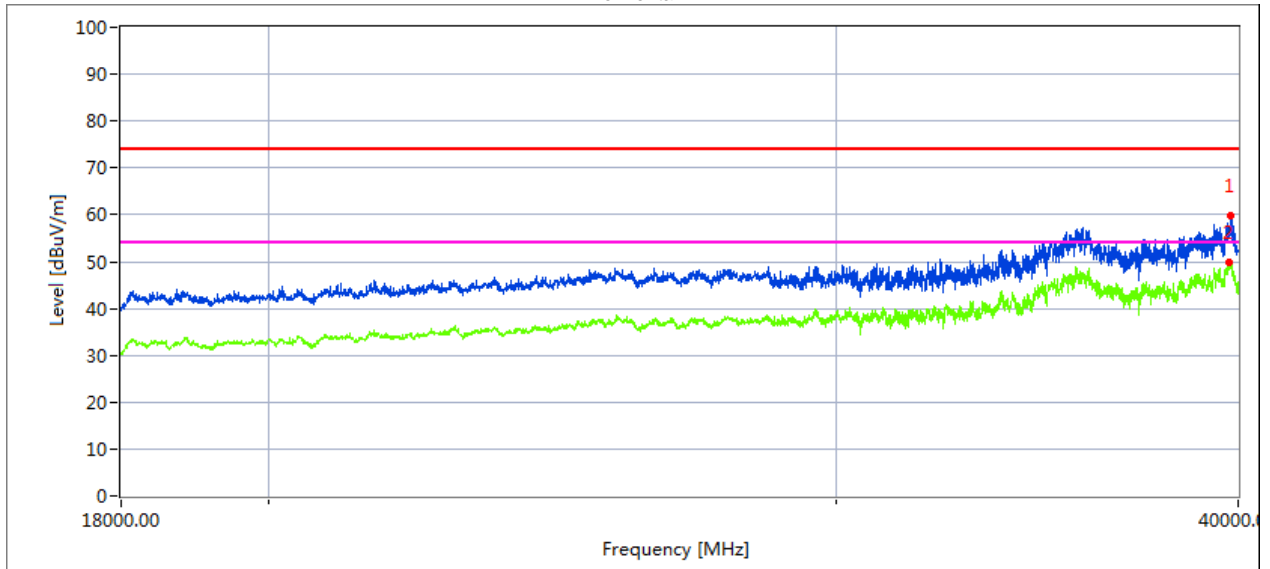


Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.246	36.21	20.09	44.07	43.48	56.89	68.2	11.31	Peak
39769.215	27.43	20.09	44.04	43.48	48.08	54	5.92	AVG

High Channel (5240 MHz)-Above 1G

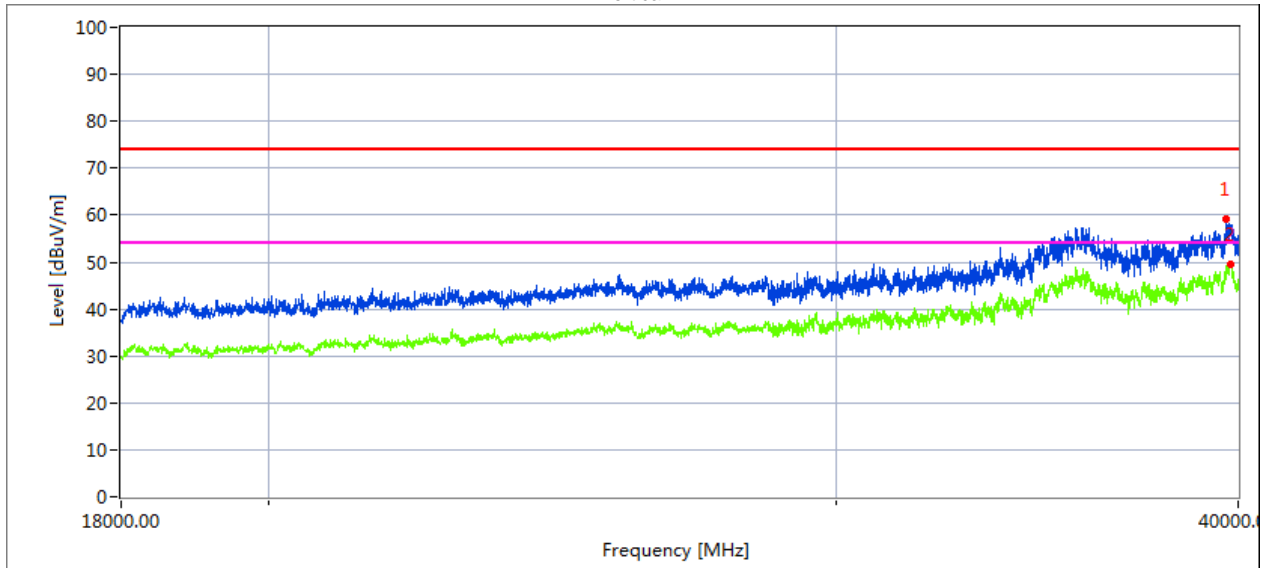
Horizontal



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
35628.01	40.9	19.11	42.73	44.61	58.13	68.2	10.07	Peak
35596.556	31.62	19.11	42.73	44.61	48.85	54	5.15	AVG

Vertical

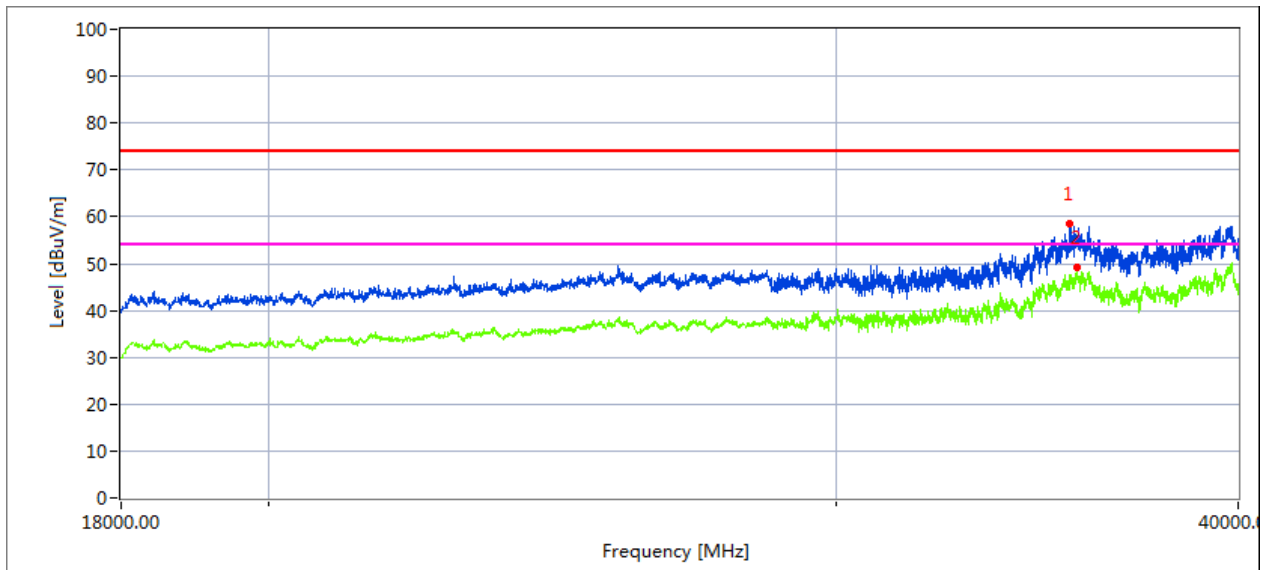


Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39769.436	37.34	20.09	44.07	43.48	58.02	68.2	10.18	Peak
39769.246	25.65	20.09	44.04	43.48	46.3	54	7.7	AVG

Low Channel (5745 MHz)-Above 1G

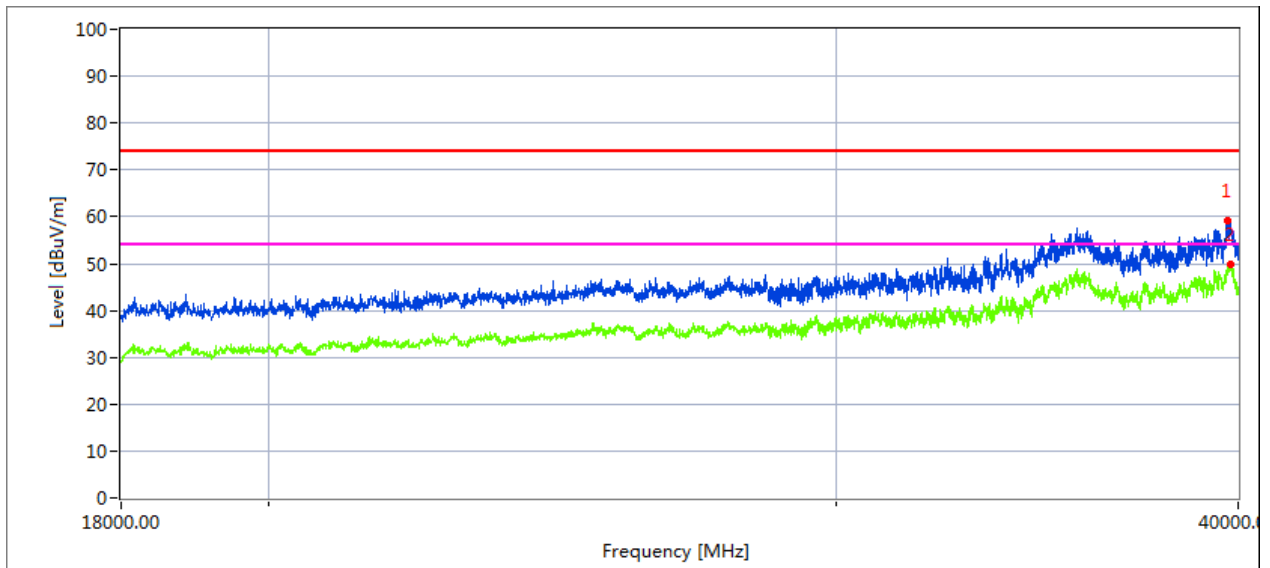
Horizontal



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39669.934	38.31	20.09	44.16	43.48	59.08	68.2	9.12	Peak
39669.634	29.49	20.09	44.16	43.48	50.26	54	3.74	AVG

Vertical

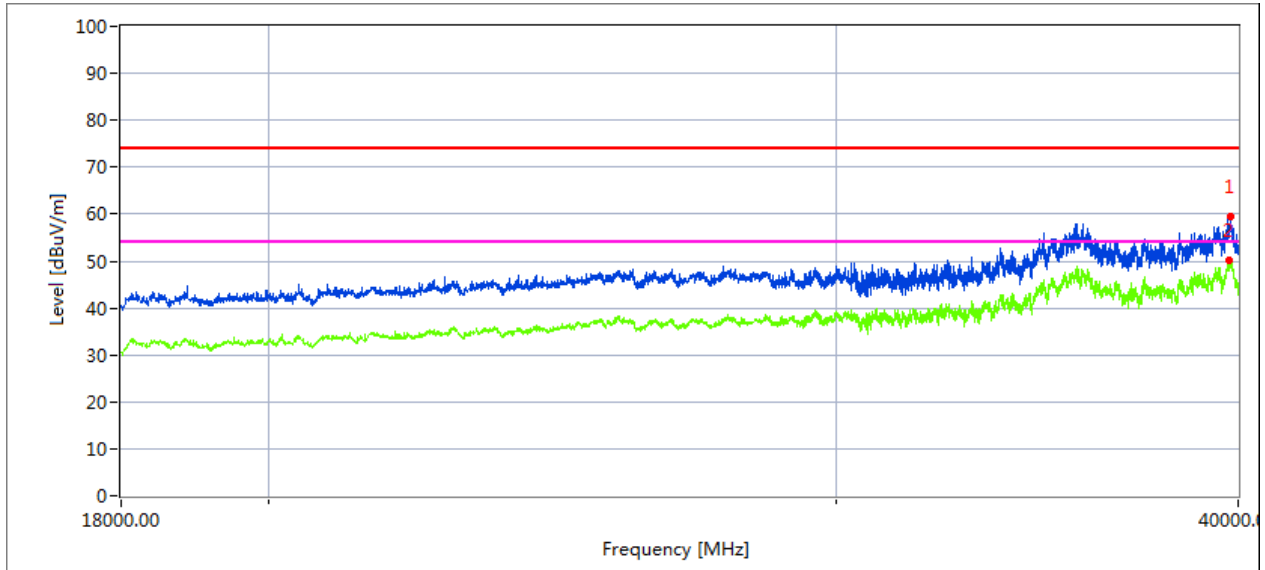


Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39731.222	37.68	20.06	44.07	43.21	58.6	68.2	9.6	Peak
39731.242	28.36	20.06	44.07	43.21	49.28	54	4.72	AVG

High Channel (5825 MHz)-Above 1G

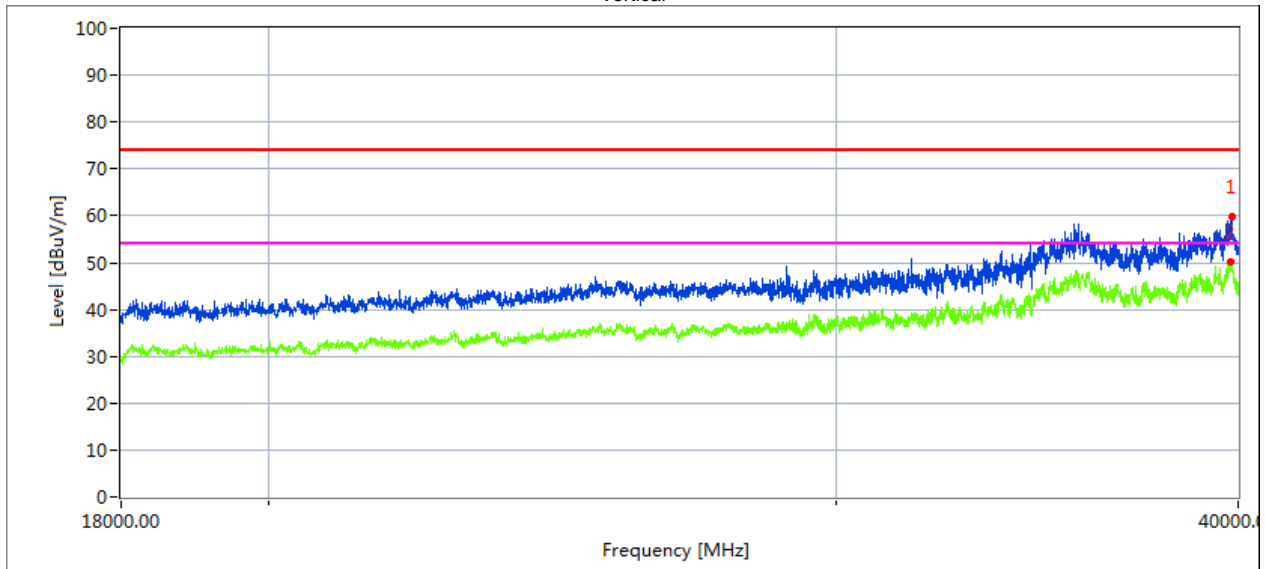
Horizontal



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
35627.944	39.39	19.11	42.63	43.48	57.65	68.2	10.55	Peak
35635.908	30.17	19.12	42.63	43.48	48.44	54	5.56	AVG

Vertical



Measurement Result:

Frequency MHz	Meter Reading dBuV	Cable loss dB	Antenna Factor dB/m	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Detector Type
39821.503	38.26	20.1	44.1	43.22	59.24	68.2	8.96	Peak
39821.683	29.36	20.1	44.1	43.22	50.34	54	3.66	AVG

3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX (5.2G)-802.11ac20 mode Ant1		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
5.2G WIFI-802.11ac20 Mode									
4500	56.38	5.2	35.6	44.2	52.98	74	-21.02	Pk	Horizontal
4500	47.39	5.2	35.6	44.2	43.99	54	-10.01	AV	Horizontal
4500	59.21	5.2	35.6	44.2	55.81	74	-18.19	Pk	Vertical
4500	46.44	5.2	35.6	44.2	43.04	54	-10.96	AV	Vertical
5150	70.20	5.36	35.66	44.22	67	74	-7	Pk	Horizontal
5150	49.66	5.36	35.66	44.22	46.46	54	-7.54	AV	Horizontal
5150	56.93	5.36	35.66	44.22	53.73	74	-20.27	Pk	Vertical
5150	38.10	5.36	35.66	44.22	34.9	54	-19.1	AV	Vertical
5350	65.61	5.68	35.68	44.22	62.75	74	-11.25	Pk	Vertical
5350	47.39	5.68	35.68	44.22	44.53	54	-9.47	AV	Vertical
5350	60.89	5.68	35.68	44.22	58.03	74	-15.97	Pk	Horizontal
5350	45.82	5.68	35.68	44.22	42.96	54	-11.04	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11ac20" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

3.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

,

3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.6 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

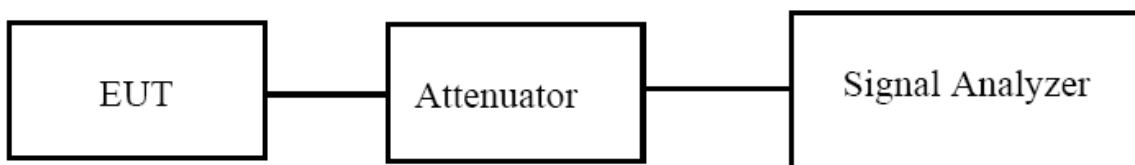
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

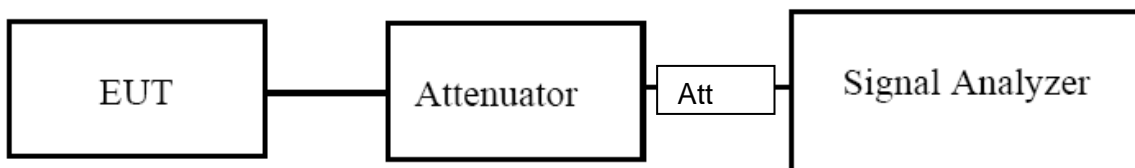
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.5.6 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)		

Test data reference attachment.

3.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

3.6.2 TEST PROCEDURE

12.3.3.2 Method PM-G

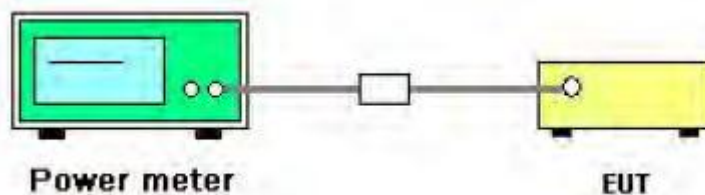
Method PM-G is measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.6.3 DEVIATION FROM STANDARD

No deviation.

3.6.4 TEST SETUP



3.6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6.6 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.7 OUT OF BAND EMISSIONS

3.7.1 Applicable Standard

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

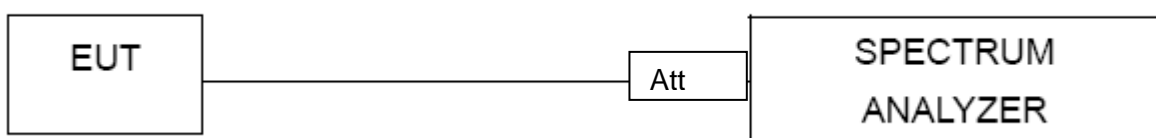
3.7.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

3.7.3 DEVIATION FROM STANDARD

No deviation.

3.7.4 TEST SETUP



3.7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.7.6 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,

Test data reference attachment.

3.8 SPURIOUS RF CONDUCTED EMISSIONS

3.8.1 Conformance Limit

According to FCC §15.407(b)(1) (2) (3) (4)

3.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

3.8.3 Test Setup

Please refer to Section 6.1 of this test report.

3.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 40GHz.

3.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test data reference attachment.

3.9 FREQUENCY STABILITY MEASUREMENT

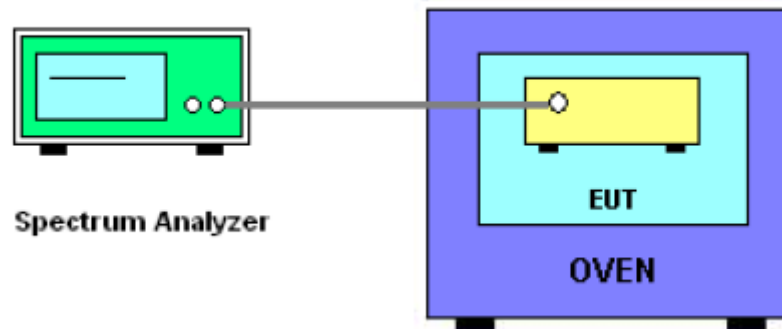
3.9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6 \text{ ppm}$.
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

3.9.3 TEST SETUP LAYOUT



3.9.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

3.9.5 TEST RESULTS

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5180.0198	5180	0.0198	-3.8224
		V max (V)	8.51	5180.0322	5180	0.0322	-6.2162
		V min (V)	6.29	5180.0223	5180	0.0223	-4.3050
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5180.0324	5180	0.0324	-6.2548
		T (°C)	-10	5180.0071	5180	0.0071	-1.3707
		T (°C)	0	5180.0050	5180	0.0050	-0.9653
		T (°C)	10	5180.0260	5180	0.0260	-5.0193
		T (°C)	20	5180.0265	5180	0.0265	-5.1158
		T (°C)	30	5180.0011	5180	0.0011	-0.2124
		T (°C)	40	5180.0088	5180	0.0088	-1.6988
		T (°C)	50	5180.0225	5180	0.0225	-4.3436
		T (°C)	60	5180.0083	5180	0.0083	-1.6023
		T (°C)	70	5180.0225	5180	0.0225	-4.3436
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5200.0288	5200	0.0288	-5.5385
		V max (V)	8.51	5200.0297	5200	0.0297	-5.7115
		V min (V)	6.29	5200.016	5200	0.0160	-3.0769
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5200.0281	5200	0.0281	-5.4038
		T (°C)	-10	5200.0048	5200	0.0048	-0.9231
		T (°C)	0	5200.0217	5200	0.0217	-4.1731
		T (°C)	10	5200.0093	5200	0.0093	-1.7885
		T (°C)	20	5200.0290	5200	0.0290	-5.5769
		T (°C)	30	5200.0264	5200	0.0264	-5.0769
		T (°C)	40	5200.0181	5200	0.0181	-3.4808
		T (°C)	50	5200.0277	5200	0.0277	-5.3269
		T (°C)	60	5200.0154	5200	0.0154	-2.9615
		T (°C)	70	5200.0264	5200	0.0264	-5.0769
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5240.0200	5240	0.0200	-3.8168
		V max (V)	8.51	5240.0075	5240	0.0075	-1.4313
		V min (V)	6.29	5240.0208	5240	0.0208	-3.9695
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5240.0313	5240	0.0313	-5.9733
		T (°C)	-10	5240.0136	5240	0.0136	-2.5954
		T (°C)	0	5240.0233	5240	0.0233	-4.4466
		T (°C)	10	5240.0245	5240	0.0245	-4.6756
		T (°C)	20	5240.0319	5240	0.0319	-6.0878
		T (°C)	30	5240.0227	5240	0.0227	-4.3321
		T (°C)	40	5240.0273	5240	0.0273	-5.2099
		T (°C)	50	5240.0133	5240	0.0133	-2.5382
		T (°C)	60	5240.0149	5240	0.0149	-2.8435
		T (°C)	70	5240.0026	5240	0.0026	-0.4962
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	AXONE NEMO LIGHT	Model Name. :	AXONE NEMO LIGHT
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 7.4V,
Test Mode :	TX Frequency(5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5745.0148	5745	0.01480	-2.5762
		V max (V)	8.51	5745.0405	5745	0.04050	-7.0496
		V min (V)	6.29	5745.0171	5745	0.01710	-2.9765
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5745.0053	5745	0.00530	-0.9225
		T (°C)	-10	5745.0234	5745	0.02340	-4.0731
		T (°C)	0	5745.0254	5745	0.02540	-4.4212
		T (°C)	10	5745.0303	5745	0.03030	-5.2742
		T (°C)	20	5745.0324	5745	0.03240	-5.6397
		T (°C)	30	5745.0117	5745	0.01170	-2.0366
		T (°C)	40	5745.0246	5745	0.02460	-4.2820
		T (°C)	50	5745.0320	5745	0.03200	-5.5701
		T (°C)	60	5745.0156	5745	0.01560	-2.7154
		T (°C)	70	5745.0317	5745	0.03170	-5.5178
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5785.0025	5785	0.00250	-0.4322
		V max (V)	8.51	5785.0314	5785	0.03140	-5.4278
		V min (V)	6.29	5785.0015	5785	0.00150	-0.2593
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5785.0071	5785	0.00710	-1.2273
		T (°C)	-10	5785.0222	5785	0.02220	-3.8375
		T (°C)	0	5785.0126	5785	0.01260	-2.1780
		T (°C)	10	5785.0192	5785	0.01920	-3.3189
		T (°C)	20	5785.0235	5785	0.02350	-4.0622
		T (°C)	30	5785.0024	5785	0.00240	-0.4149
		T (°C)	40	5785.0171	5785	0.01710	-2.9559
		T (°C)	50	5785.0283	5785	0.02830	-4.8920
		T (°C)	60	5785.0314	5785	0.03140	-5.4278
		T (°C)	70	5785.0041	5785	0.00410	-0.7087
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	7.40	5825.0140	5825	0.01400	-2.4034
		V max (V)	8.51	5825.0363	5825	0.03630	-6.2318
		V min (V)	6.29	5825.021	5825	0.02100	-3.6052
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	7.40	T (°C)	-20	5825.0095	5825	0.00950	-1.6309
		T (°C)	-10	5825.0130	5825	0.01300	-2.2318
		T (°C)	0	5825.0057	5825	0.00570	-0.9785
		T (°C)	10	5825.0338	5825	0.03380	-5.8026
		T (°C)	20	5825.0278	5825	0.02780	-4.7725
		T (°C)	30	5825.0079	5825	0.00790	-1.3562
		T (°C)	40	5825.0091	5825	0.00910	-1.5622
		T (°C)	50	5825.0017	5825	0.00170	-0.2918
		T (°C)	60	5825.0283	5825	0.02830	-4.8584
		T (°C)	70	5825.0062	5825	0.00620	-1.0644
Limits				Within 5745-5850MHz			
Result				Complies			

4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

4.2 EUT ANTENNA

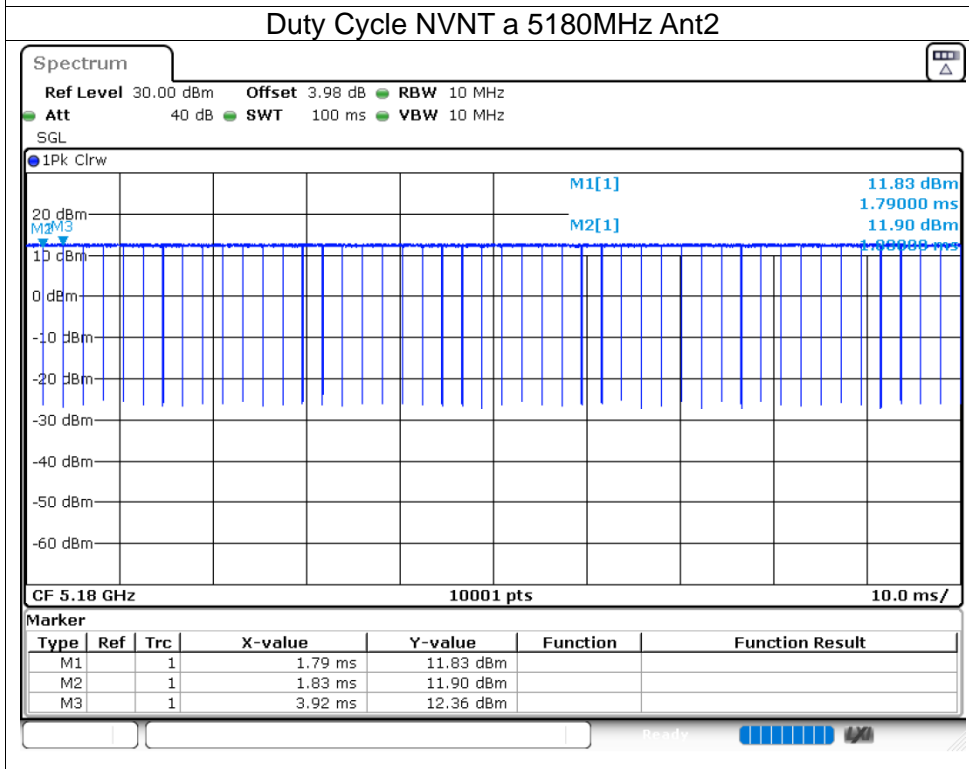
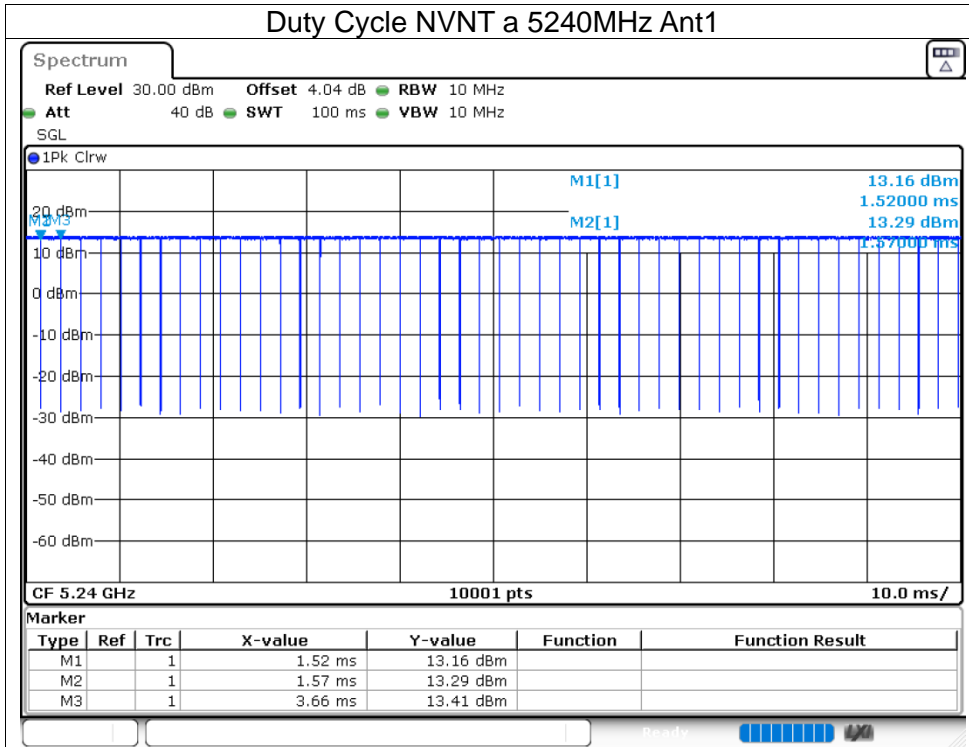
The EUT antenna is permanent attached FPCB antenna. It comply with the standard requirement.

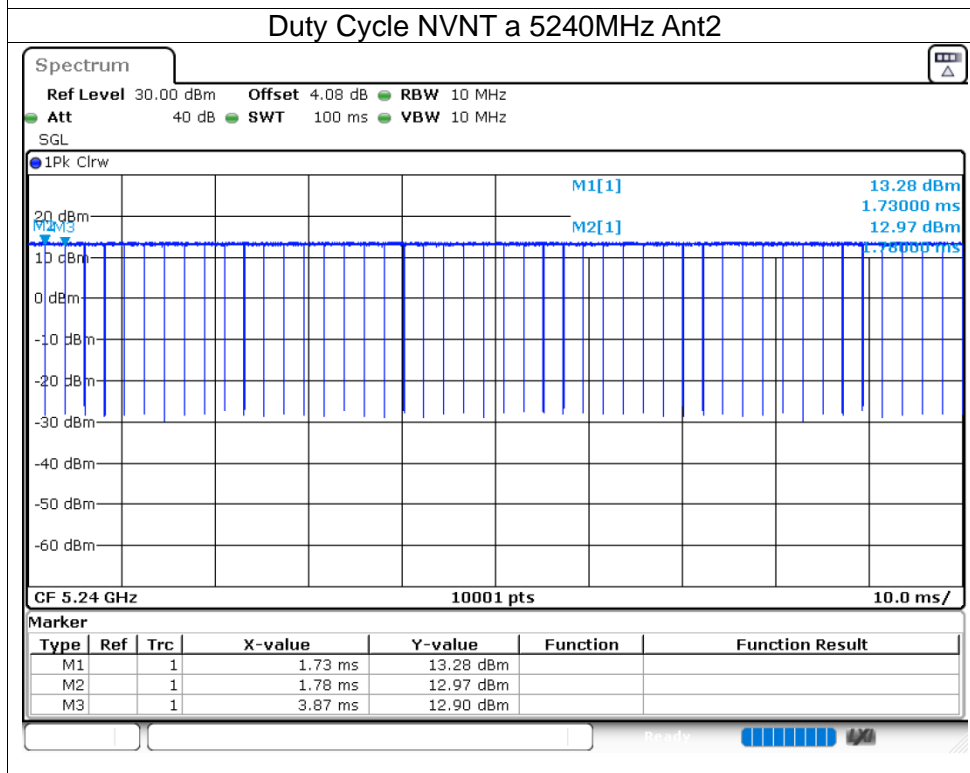
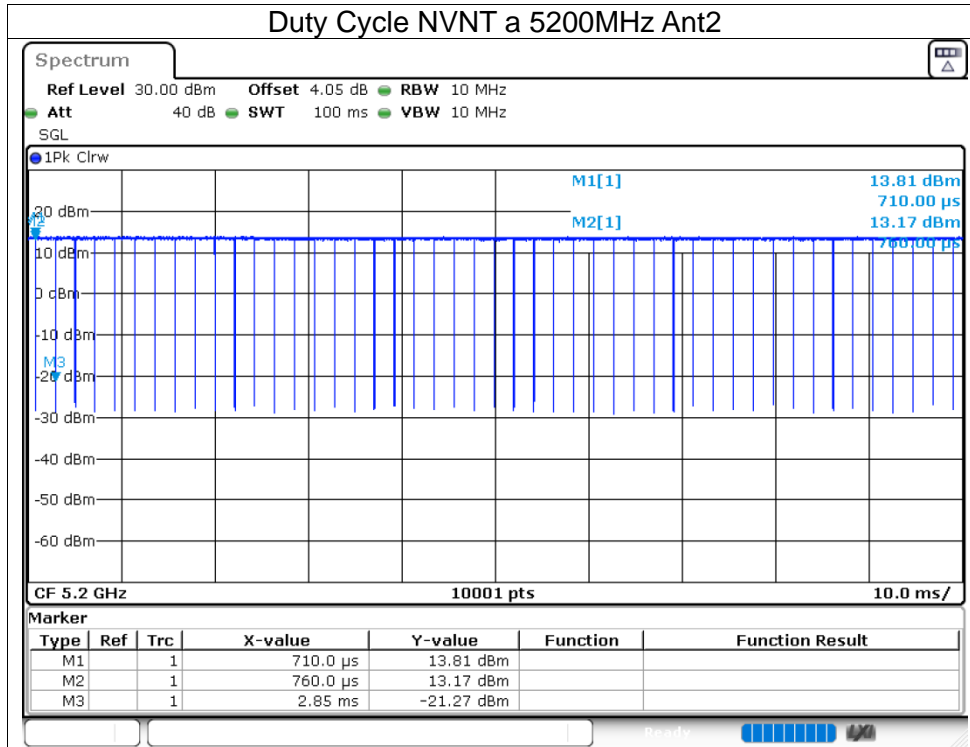
5. TEST RESULTS

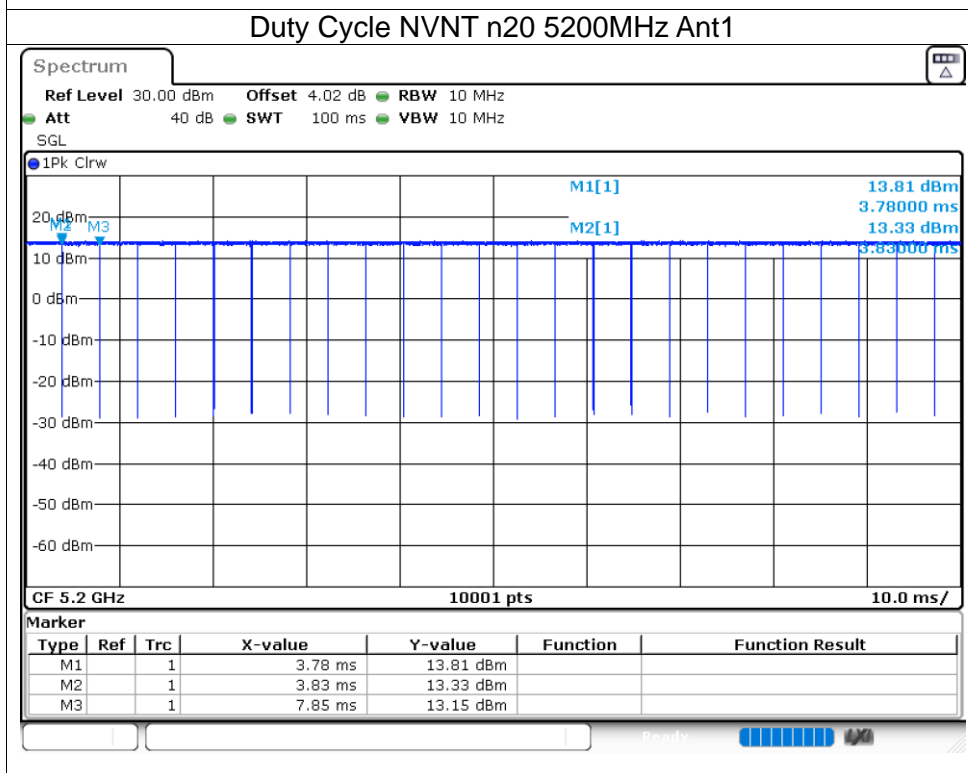
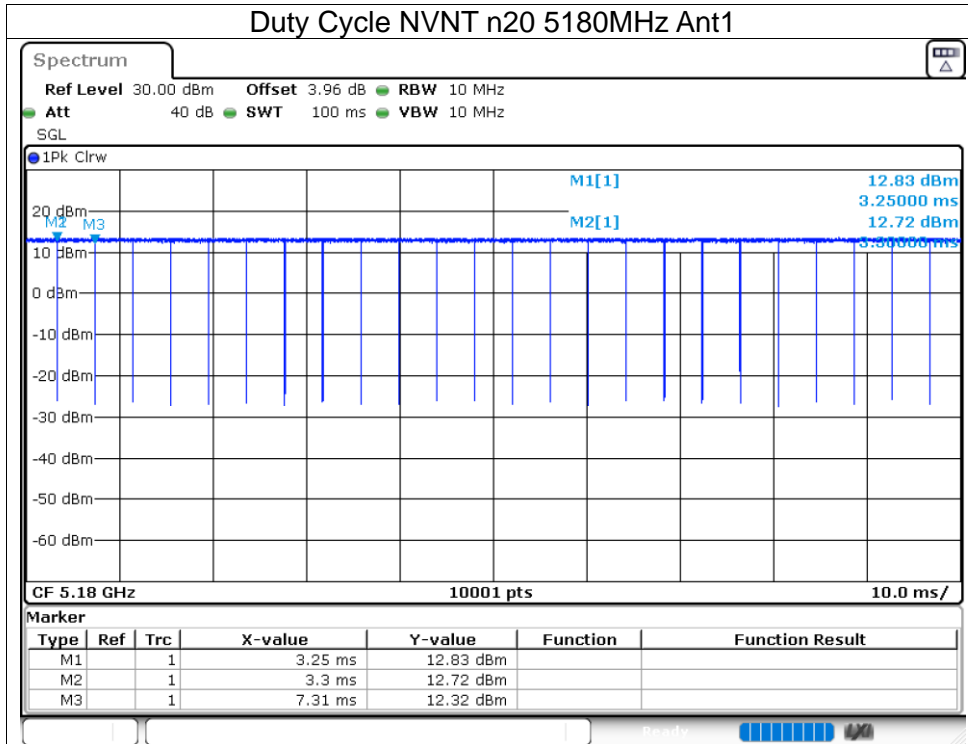
5.2G WIFI

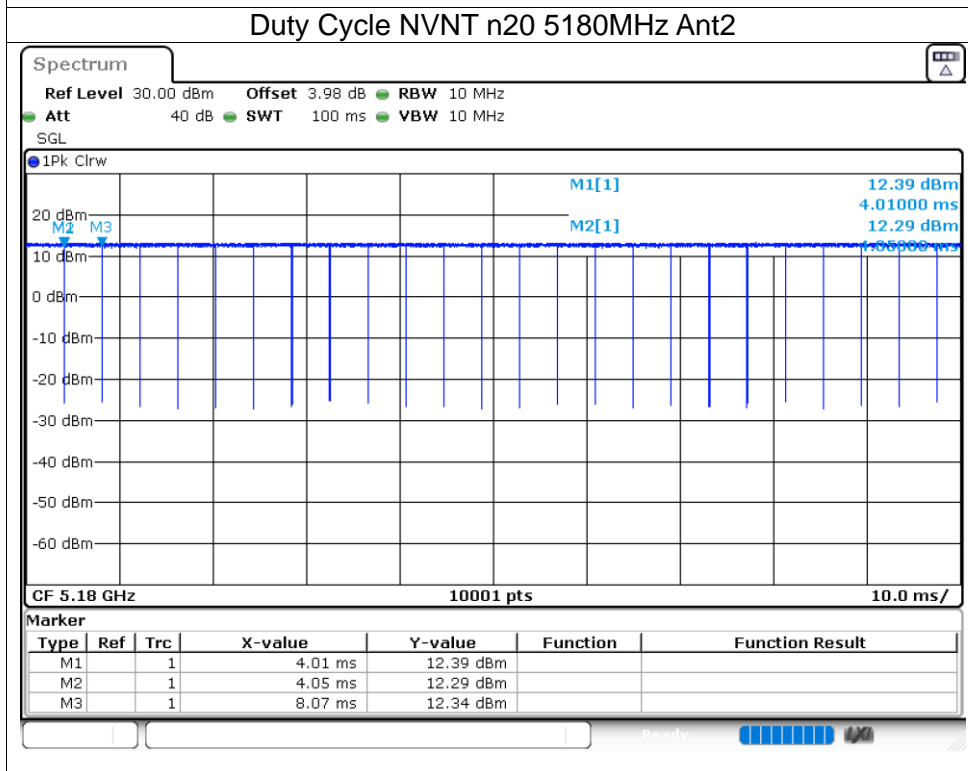
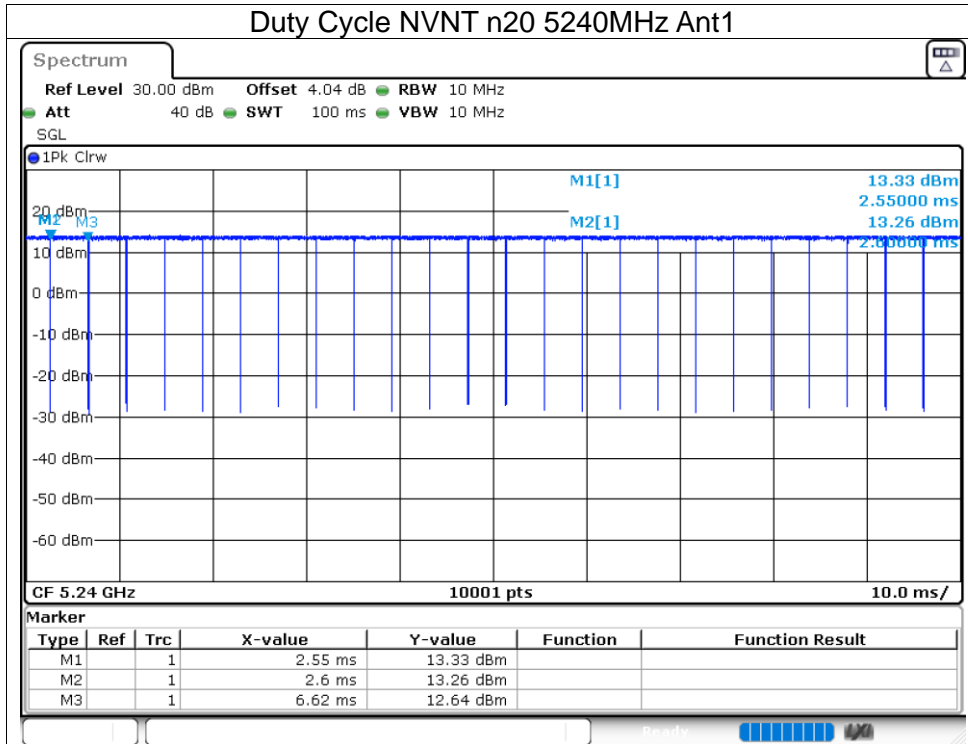
5.1 DUTY CYCLE

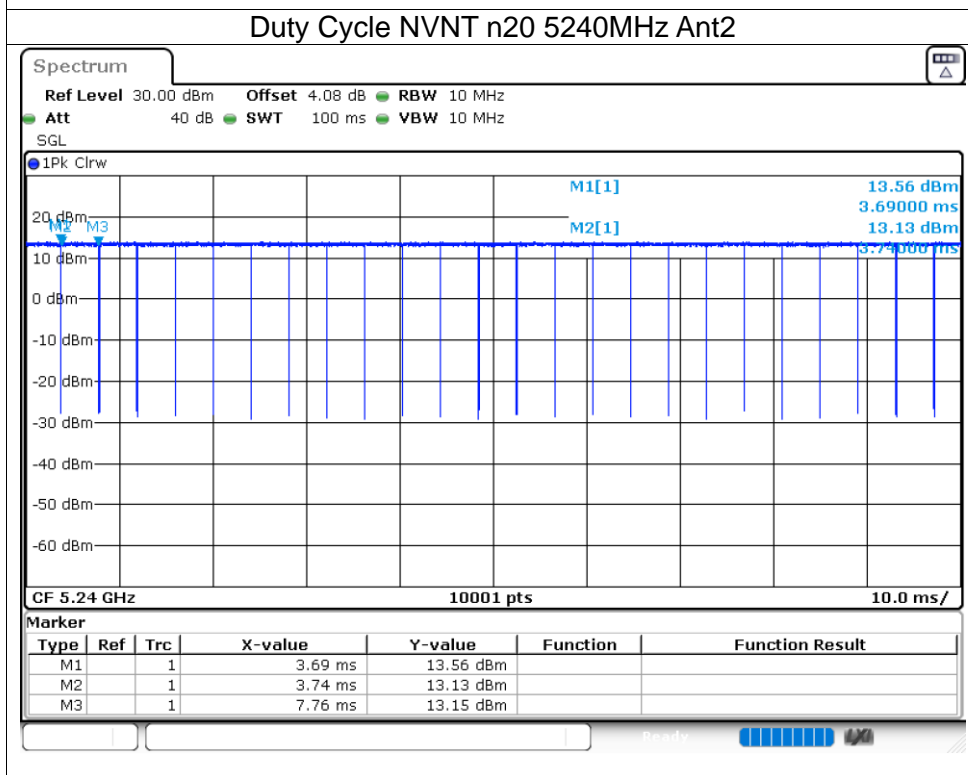
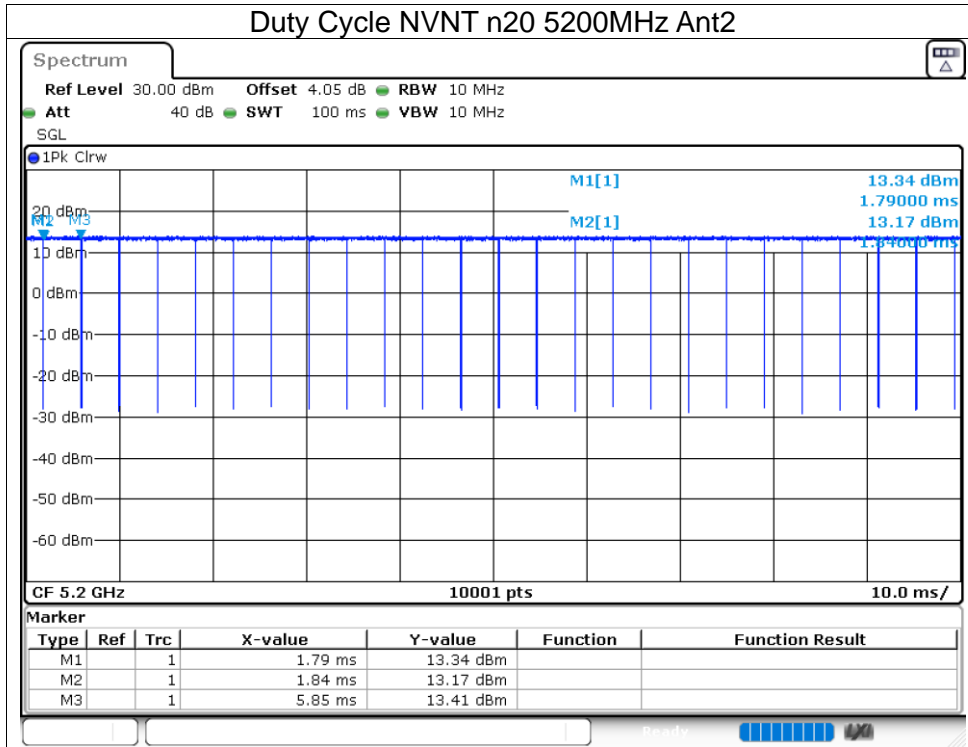
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	98.22	0.08	0.48
NVNT	a	5200	Ant1	98.35	0.07	0.48
NVNT	a	5240	Ant1	98.26	0.08	0.48
NVNT	a	5180	Ant2	98.31	0.07	0.48
NVNT	a	5200	Ant2	98.32	0.07	0.48
NVNT	a	5240	Ant2	98.22	0.08	0.48
NVNT	n20	5180	Ant1	99.1	0.04	0.25
NVNT	n20	5200	Ant1	99.12	0.04	0.25
NVNT	n20	5240	Ant1	99.11	0.04	0.25
NVNT	n20	5180	Ant2	99.12	0.04	0.25
NVNT	n20	5200	Ant2	99.07	0.04	0.25
NVNT	n20	5240	Ant2	99.11	0.04	0.25
NVNT	n40	5190	Ant1	99.06	0.04	0.25
NVNT	n40	5230	Ant1	99.1	0.04	0.25
NVNT	n40	5190	Ant2	99.12	0.04	0.25
NVNT	n40	5230	Ant2	99.08	0.04	0.25
NVNT	ac20	5180	Ant1	98.29	0.07	0.48
NVNT	ac20	5200	Ant1	98.22	0.08	0.48
NVNT	ac20	5240	Ant1	98.27	0.08	0.48
NVNT	ac20	5180	Ant2	98.23	0.08	0.48
NVNT	ac20	5200	Ant2	98.28	0.08	0.48
NVNT	ac20	5240	Ant2	98.31	0.07	0.48
NVNT	ac40	5190	Ant1	99.12	0.04	0.25
NVNT	ac40	5230	Ant1	99.06	0.04	0.25
NVNT	ac40	5190	Ant2	99.06	0.04	0.25
NVNT	ac40	5230	Ant2	99.1	0.04	0.25
NVNT	ac80	5210	Ant1	99.07	0.04	0.25
NVNT	ac80	5210	Ant2	99.07	0.04	0.25

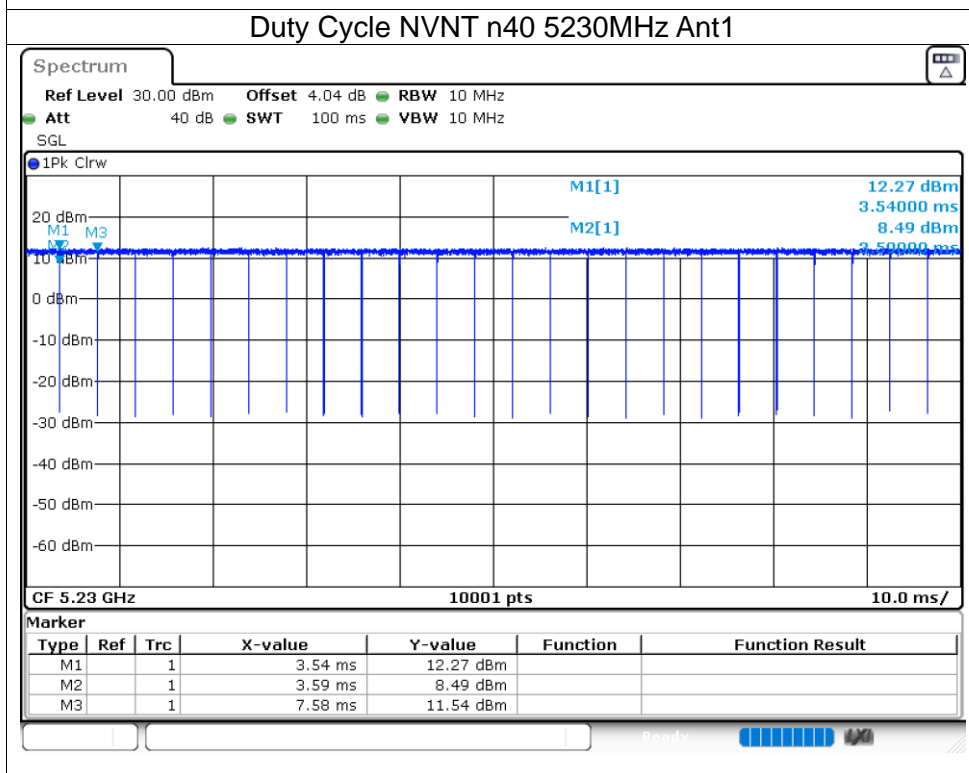
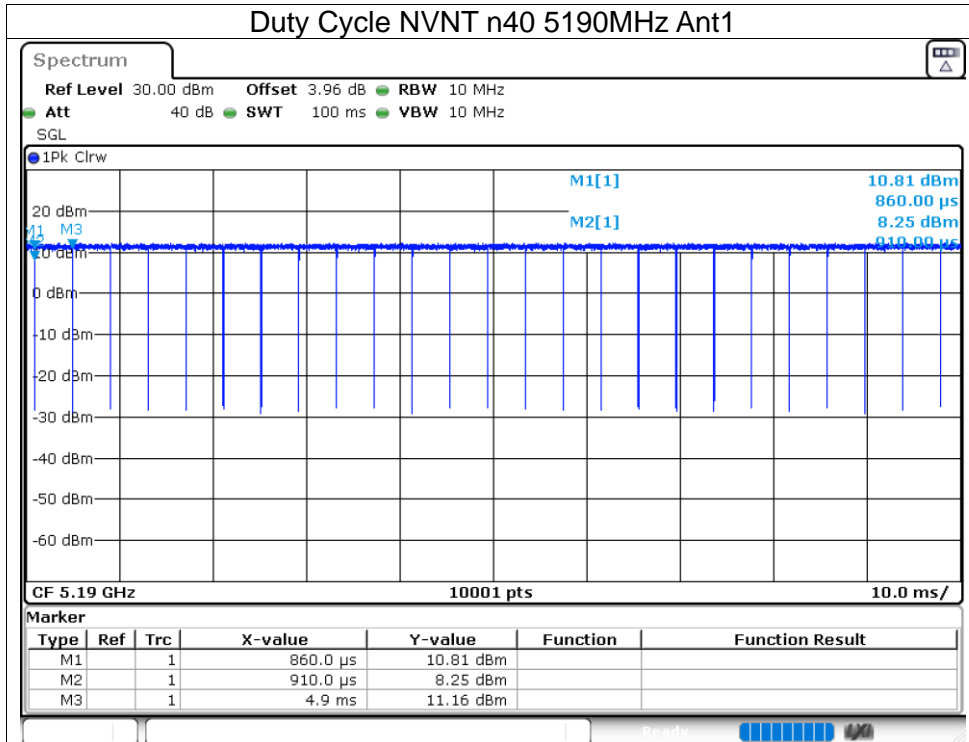


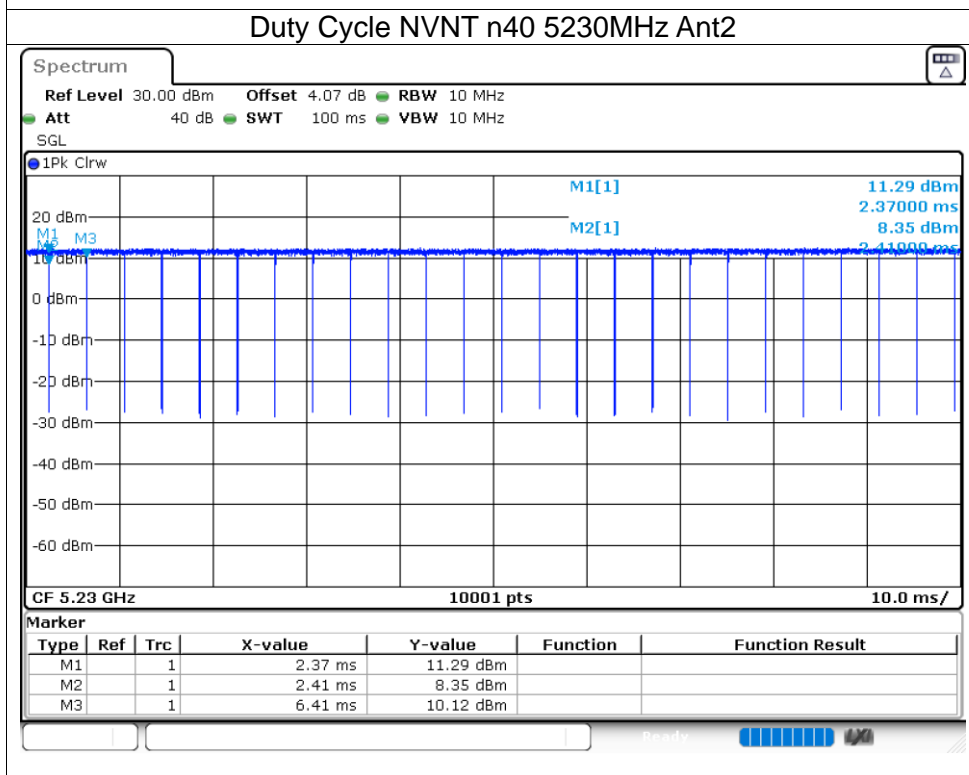
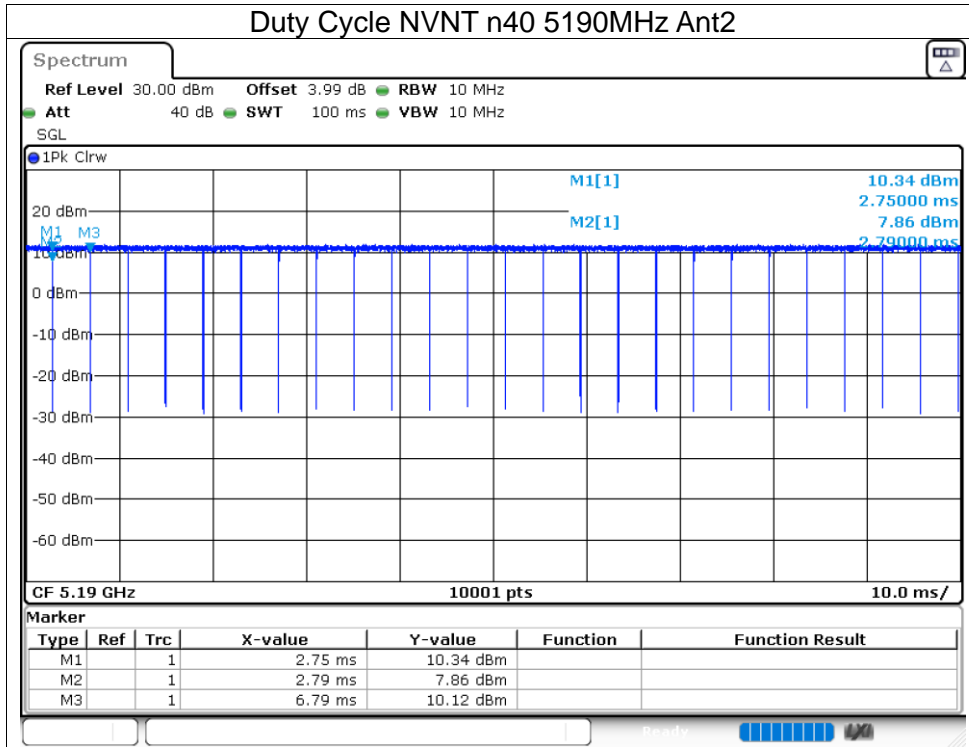












5.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.01	24	Pass
NVNT	a	5200	Ant1	11.98	24	Pass
NVNT	a	5240	Ant1	11.93	24	Pass
NVNT	a	5180	Ant2	11.7	24	Pass
NVNT	a	5200	Ant2	11.7	24	Pass
NVNT	a	5240	Ant2	11.67	24	Pass
NVNT	n20	5180	Ant1	11.94	24	Pass
NVNT	n20	5200	Ant1	11.92	24	Pass
NVNT	n20	5240	Ant1	11.83	24	Pass
NVNT	n20	5180	Ant2	11.69	24	Pass
NVNT	n20	5200	Ant2	11.64	24	Pass
NVNT	n20	5240	Ant2	11.64	24	Pass
NVNT	n40	5190	Ant1	12.27	24	Pass
NVNT	n40	5230	Ant1	12.13	24	Pass
NVNT	n40	5190	Ant2	11.94	24	Pass
NVNT	n40	5230	Ant2	11.95	24	Pass
NVNT	ac20	5180	Ant1	12.04	24	Pass
NVNT	ac20	5200	Ant1	12.04	24	Pass
NVNT	ac20	5240	Ant1	12	24	Pass
NVNT	ac20	5180	Ant2	11.76	24	Pass
NVNT	ac20	5200	Ant2	11.71	24	Pass
NVNT	ac20	5240	Ant2	11.77	24	Pass
NVNT	ac40	5190	Ant1	12.12	24	Pass
NVNT	ac40	5230	Ant1	12.14	24	Pass
NVNT	ac40	5190	Ant2	11.95	24	Pass
NVNT	ac40	5230	Ant2	11.95	24	Pass
NVNT	ac80	5210	Ant1	12.4	24	Pass
NVNT	ac80	5210	Ant2	12.08	24	Pass

5.3 -26DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.271	Pass
NVNT	a	5200	Ant1	22.299	Pass
NVNT	a	5240	Ant1	21.963	Pass
NVNT	a	5180	Ant2	23.514	Pass
NVNT	a	5200	Ant2	21.12	Pass
NVNT	a	5240	Ant2	22.026	Pass
NVNT	n20	5180	Ant1	23.388	Pass
NVNT	n20	5200	Ant1	23.454	Pass
NVNT	n20	5240	Ant1	23.067	Pass
NVNT	n20	5180	Ant2	23.334	Pass
NVNT	n20	5200	Ant2	23.346	Pass
NVNT	n20	5240	Ant2	22.608	Pass
NVNT	n40	5190	Ant1	43.872	Pass
NVNT	n40	5230	Ant1	43.494	Pass
NVNT	n40	5190	Ant2	43.056	Pass
NVNT	n40	5230	Ant2	43.872	Pass
NVNT	ac20	5180	Ant1	23.157	Pass
NVNT	ac20	5200	Ant1	22.833	Pass
NVNT	ac20	5240	Ant1	23.19	Pass
NVNT	ac20	5180	Ant2	23.199	Pass
NVNT	ac20	5200	Ant2	23.34	Pass
NVNT	ac20	5240	Ant2	22.401	Pass
NVNT	ac40	5190	Ant1	43.236	Pass
NVNT	ac40	5230	Ant1	44.1	Pass
NVNT	ac40	5190	Ant2	44.532	Pass
NVNT	ac40	5230	Ant2	43.104	Pass
NVNT	ac80	5210	Ant1	86.196	Pass
NVNT	ac80	5210	Ant2	84.096	Pass

