

FCC Test Report

Report No. : 1821C50002612504

Applicant : Launch Tech Co., Ltd.

Address : No.4012, Launch Industrial Park, North Wuhe
Rd, Bantian Street, Longgang District 518129,
China

Product Name : Professional Diagnostic Tool

Report Date : Mar. 17, 2025

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Launch Tech Co., Ltd.
Manufacturer : Launch Tech Co., Ltd.
Product Name : Professional Diagnostic Tool
Model No. : Creader Professional 919E, Millennium Max, Creader Professional 919x, Creader Professional 919x PLUS ("x"=A~Z), Creader Professional 359, 59582
Trade Mark : LAUNCH
Rating(s) : Input: AC 100-240V, 50/60Hz(with DC 3.7V, 6000mAh Battery inside)

Test Standard(s) : **47 CFR Part 15E**
ANSI C63.10-2020
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Mar. 06, 2025

Date of Test: Mar. 06, 2025 to Mar. 13, 2025

Prepared By:

Haidi Huang

(Haidi Huang)

Approved & Authorized Signer:

Hugo Chen

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.(Note 1)	Mar. 17, 2025

Note 1:

This is a Class II application which was based on the original report 18220WC20090304. FCC ID: XUJCRP349PLUS, issued on May 26, 2022. The difference between the original device and current one described as following:

1. The motherboard and PCB layout remain unchanged, but the electronic materials are replaced with substitute materials. The packaging and specifications of the substitute materials are the same as the original main materials.
2. Add the Model No.: 59582.
3. Change the battery capacity to “6000mAh”.
4. Delete factory information.
5. Update the EUT Photograph.
6. Change the company address of Applicant and Manufacturer.

The changes are not related with the other RF parameters, only conducted emission and spurious emission were retested.

1. General Information

1.1. Client Information

Applicant	:	Launch Tech Co., Ltd.
Address	:	No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District 518129, China
Manufacturer	:	Launch Tech Co., Ltd.
Address	:	No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District 518129, China

1.2. Description of Device (EUT)

Product Name	:	Professional Diagnostic Tool
Model No.	:	Creader Professional 919E, Millennium Max, Creader Professional 919x, Creader Professional 919x PLUS ("x"=A~Z), Creader Professional 359, 59582 (Note: All samples are the same except the model number, Rubber cover, appearance shape, Key decorative ring color. So we prepare "Creader Professional 919E" for test only.)
Trade Mark	:	LAUNCH
Test Power Supply	:	AC 120V, 60Hz for Adapter/DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: FY0502500 Input: 100-240V~50/60Hz, 0.6A Max. Output: DC 5V, 2.5A
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(VHT20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(VHT40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(HT80):

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		U-NII Band 1: 1; U-NII Band 3: 1
Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	:	FPC Antenna
TPC Function	:	Without TPC
Antenna Gain(Peak)	:	WiFi 5.2G: 5.15dBi WiFi 5.8G: 5.15dBi
Remark: (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/

Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM3	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM4	Keep the EUT works in normal operating mode and connect to companion device

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Conducted Output Power	0.76dB
Radiated emissions (Below 30MHz)	3.26dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	P
Maximum conducted output power	Mode1,2,3,4	P
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	P
Note: P: Pass N: N/A, not applicable		

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.10. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	2025-09-08
2	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2025-01-13	2026-01-12
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
4	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08

Maximum Conducted Output Power						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2021-10-22	2022-10-21
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2021-10-22	2022-10-21
3	Power Sensor	DAER	RPR3006W	15I00041S N045	2021-10-22	2022-10-21
4	Power Sensor	DAER	RPR3006W	15I00041S N046	2021-10-22	2022-10-21
5	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY532800 32	2021-10-22	2022-10-21
6	Signal Generator	Agilent	E4421B	MY410007 43	2021-10-22	2022-10-21
7	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2021-10-22	2022-10-21

Undesirable emission limits (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
2	Pre-amplifier	SONOMA	310N	186860	2025-01-14	2026-01-13
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

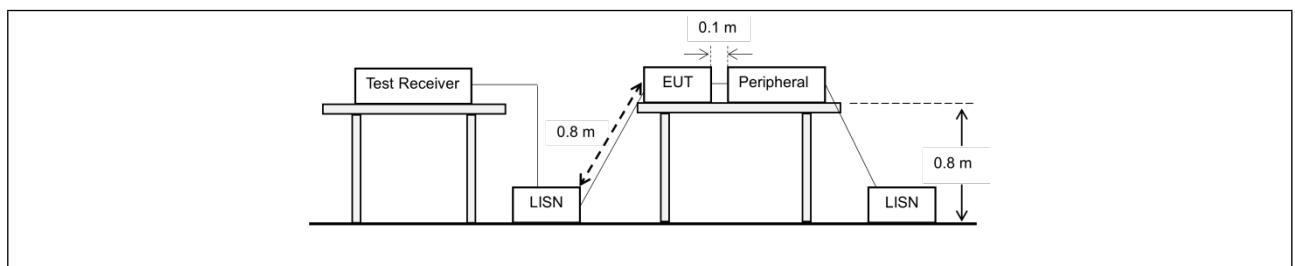
2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		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 C63.10-2020 section 6.2		

2.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p>

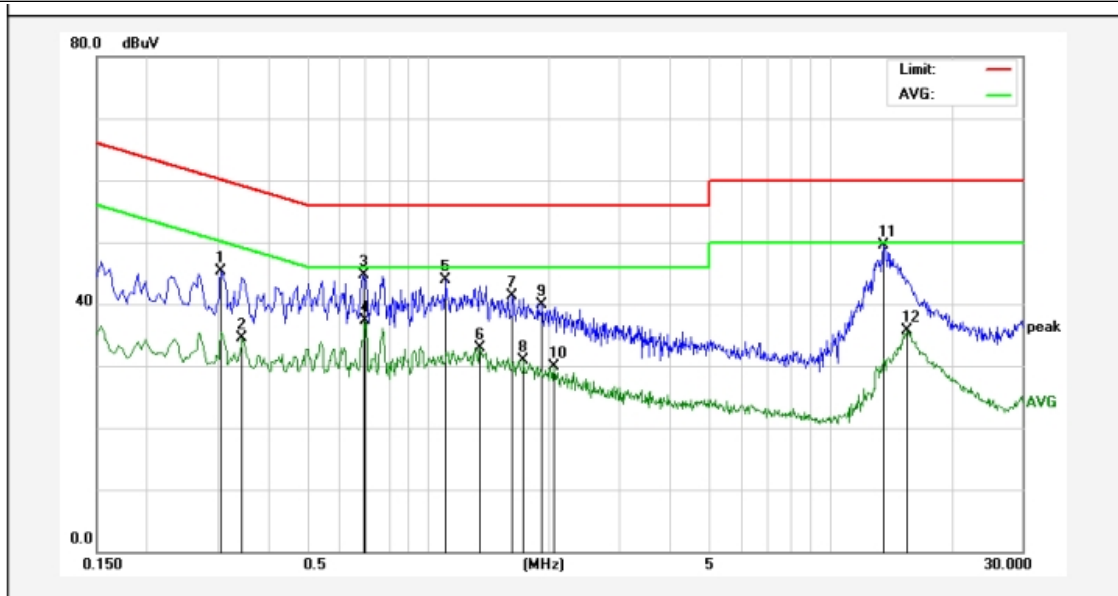
2.2. Test Setup



2.3. Test Data

Temperature:	22.7 °C	Humidity:	50 %	Atmospheric Pressure:	101 kPa
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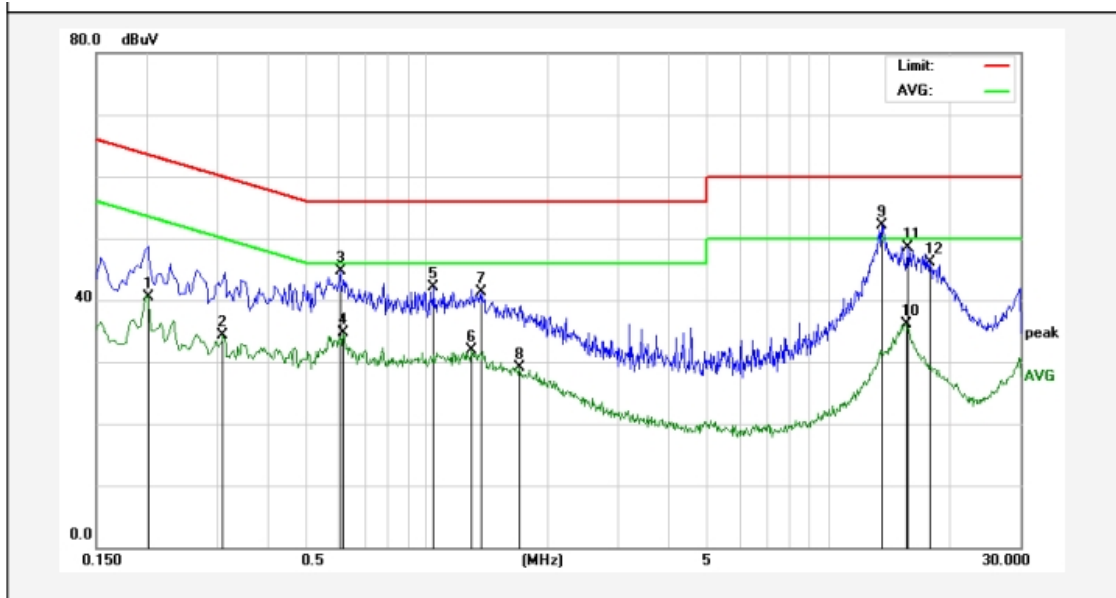
TM2 / Line: Line / Band: 5150-5250 MHz / BW: 40 / CH: L



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.3060	27.55	17.83	45.38	60.08	-14.70	QP	
2	0.3460	16.74	17.82	34.56	49.06	-14.50	AVG	
3	0.6900	26.90	17.87	44.77	56.00	-11.23	QP	
4	0.7019	19.40	17.87	37.27	46.00	-8.73	AVG	
5	1.1100	26.13	17.85	43.98	56.00	-12.02	QP	
6	1.3500	15.14	17.84	32.98	46.00	-13.02	AVG	
7	1.6220	23.47	17.84	41.31	56.00	-14.69	QP	
8	1.7260	13.12	17.84	30.96	46.00	-15.04	AVG	
9	1.9260	22.07	17.83	39.90	56.00	-16.10	QP	
10	2.0579	12.11	17.83	29.94	46.00	-16.06	AVG	
11	13.5580	31.36	18.13	49.49	60.00	-10.51	QP	
12	15.5460	17.55	18.19	35.74	50.00	-14.26	AVG	

Temperature:	22.7 °C	Humidity:	50 %	Atmospheric Pressure:	101 kPa
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TM2 / Line: Neutral / Band: 5150-5250 MHz / BW: 40 / CH: L



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2020	22.77	17.83	40.60	53.52	-12.92	AVG	
2	0.3100	16.57	17.83	34.40	49.97	-15.57	AVG	
3	0.6100	26.85	17.86	44.71	56.00	-11.29	QP	
4	0.6180	16.87	17.86	34.73	46.00	-11.27	AVG	
5	1.0380	24.18	17.85	42.03	56.00	-13.97	QP	
6	1.2940	14.09	17.84	31.93	46.00	-14.07	AVG	
7	1.3700	23.56	17.84	41.40	56.00	-14.60	QP	
8	1.7060	11.34	17.84	29.18	46.00	-16.82	AVG	
9	13.5620	33.90	18.13	52.03	60.00	-7.97	QP	
10	15.5700	17.85	18.19	36.04	50.00	-13.96	AVG	
11	15.7180	30.33	18.19	48.52	60.00	-11.48	QP	
12	17.8620	27.87	18.25	46.12	60.00	-13.88	QP	

Note: Only the worst case data was showed in the report.

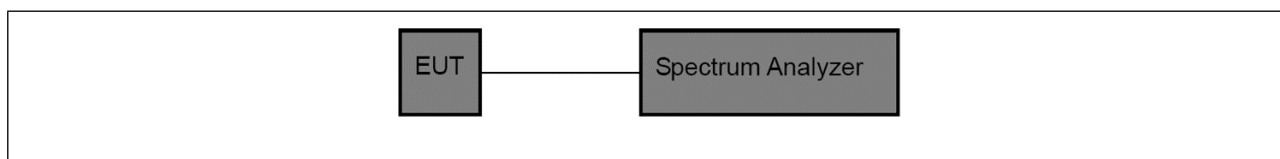
3. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Test Limit:	<p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.</p> <p>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.</p> <p>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.</p>
Test Method:	ANSI C63.10-2020, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

3.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p>

3.2. Test Setup



3.3. Test Data

Temperature:	24.3 °C	Humidity:	56.2 %	Atmospheric Pressure:	101 kPa
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TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	12.14	≤23.98	PASS
		5200	12.43	≤23.98	PASS
		5240	12.86	≤23.98	PASS
		5745	11.86	≤30	PASS
		5785	11.45	≤30	PASS
		5825	11.00	≤30	PASS
11N20SISO	Ant1	5180	10.25	≤23.98	PASS
		5200	12.38	≤23.98	PASS
		5240	12.57	≤23.98	PASS
		5745	11.87	≤30	PASS
		5785	11.39	≤30	PASS
		5825	11.24	≤30	PASS
11N40SISO	Ant1	5190	13.55	≤23.98	PASS
		5230	13.12	≤23.98	PASS
		5755	12.55	≤30	PASS
		5795	11.43	≤30	PASS
11AC20SISO	Ant1	5180	11.42	≤23.98	PASS
		5200	11.40	≤23.98	PASS
		5240	10.29	≤23.98	PASS
		5745	12.06	≤30	PASS
		5785	11.39	≤30	PASS
		5825	11.23	≤30	PASS
11AC40SISO	Ant1	5190	13.33	≤23.98	PASS
		5230	12.05	≤23.98	PASS
		5755	12.27	≤30	PASS
		5795	11.49	≤30	PASS
11AC80SISO	Ant1	5210	13.44	≤23.98	PASS
		5775	12.64	≤30	PASS

Note: For pre-scan, the result is equal to original, so the original data is referenced.

4. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)		
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.		
	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>			
Test Method:	ANSI C63.10-2020, section 12.7.4, 12.7.5		
Procedure:	<p>Below 1GHz:</p> <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna 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.</p> <p>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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin</p>		

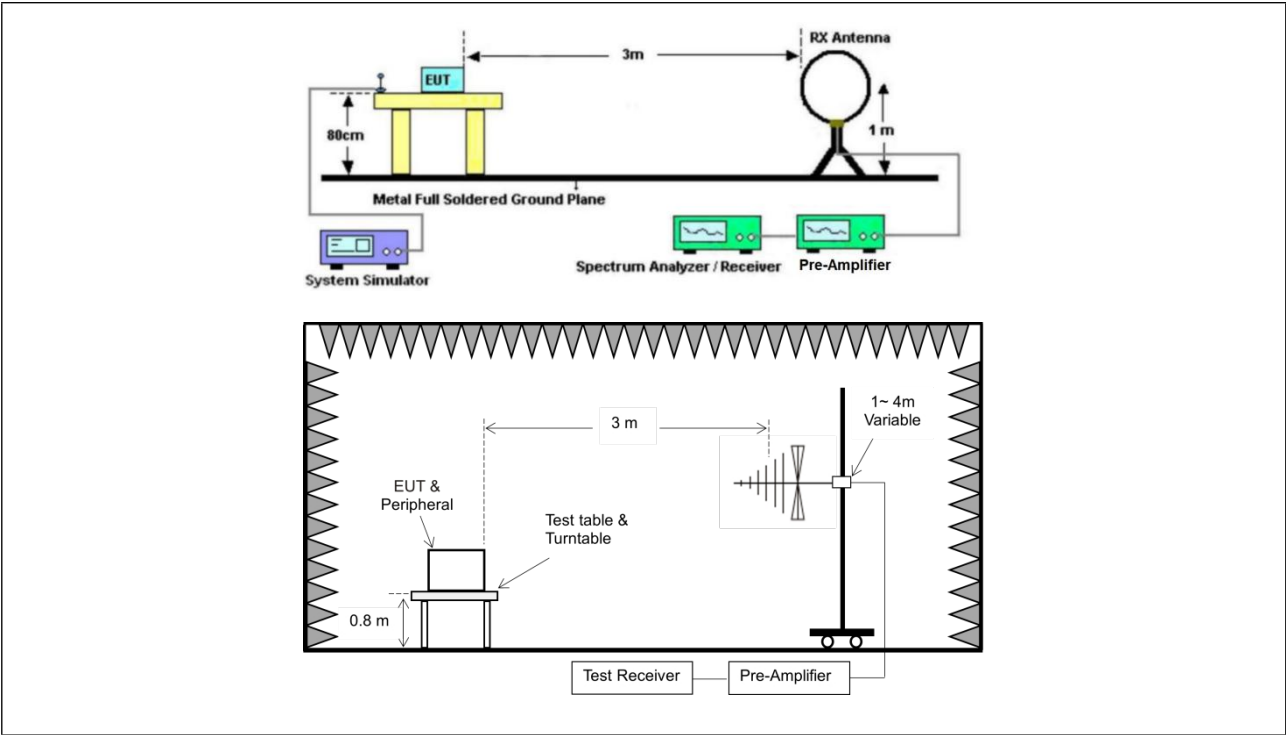
	<p>would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>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.</p> <p>c. The antenna 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.</p> <p>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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB
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	<p>below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p>
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4.1. EUT Operation

Operating Environment:	
Test mode:	<p>1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p>

4.2. Test Setup

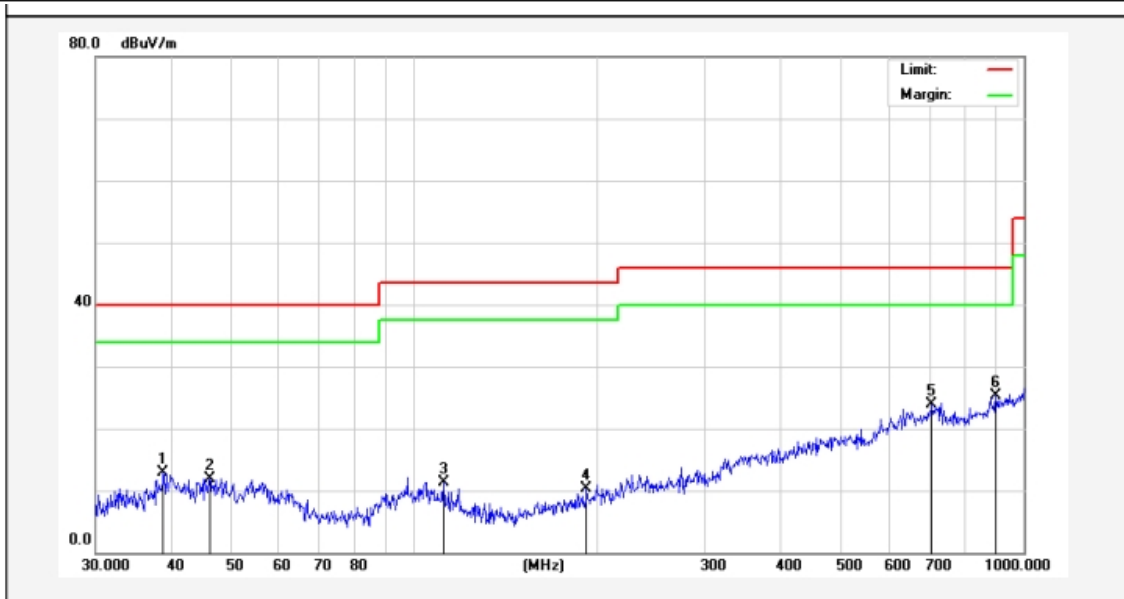


4.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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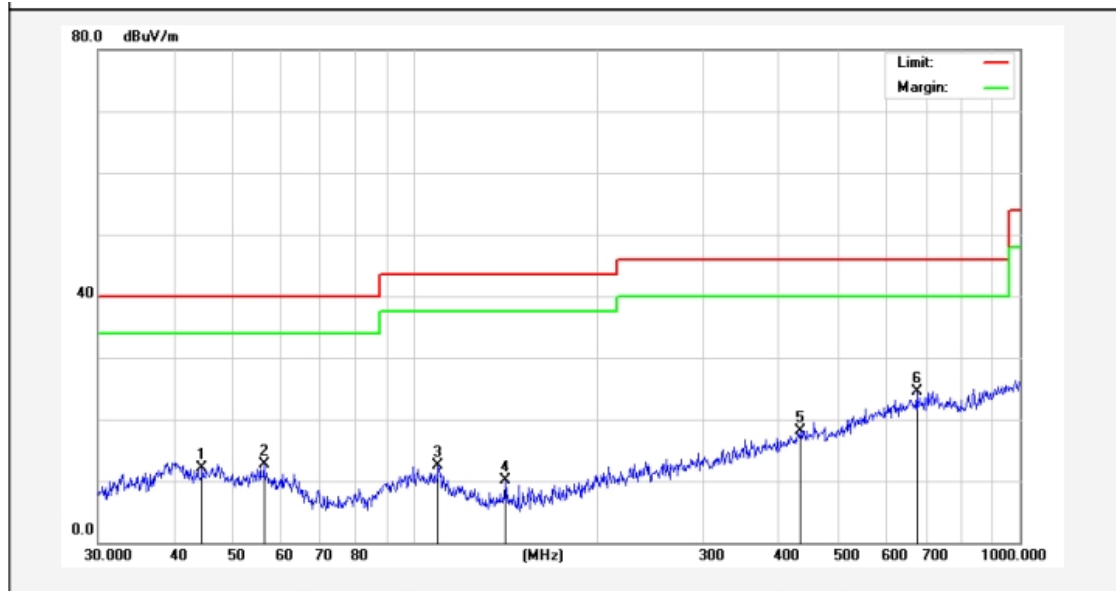
TM2 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 40 / CH: L



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	38.7518	29.45	-16.55	12.90	40.00	-27.10	QP			
2	46.1779	28.70	-16.78	11.92	40.00	-28.08	QP			
3	111.7380	30.68	-19.44	11.24	43.50	-32.26	QP			
4	191.7450	30.88	-20.59	10.29	43.50	-33.21	QP			
5	706.6999	32.75	-8.83	23.92	46.00	-22.08	QP			
6	900.1474	32.03	-6.70	25.33	46.00	-20.67	QP			

Temperature:	25.3 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
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TM2 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 40 / CH: L



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	44.5868	28.73	-16.56	12.17	40.00	-27.83	QP			
2	56.3948	30.47	-17.82	12.65	40.00	-27.35	QP			
3	109.4116	31.52	-19.10	12.42	43.50	-31.08	QP			
4	141.3298	32.88	-22.82	10.06	43.50	-33.44	QP			
5	434.0651	31.11	-12.93	18.18	46.00	-27.82	QP			
6	675.2080	33.61	-9.05	24.56	46.00	-21.44	QP			

Note: Only the worst case data was showed in the report.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

