

FCC Test Report

Report No. : 1812C60281412505

Applicant : SHENZHEN ELECTRON TECHNOLOGY
CO.,LTD.

Address : Bld.2,Yingfeng Industrial Zone,Tantou
Community, Songgang Street,Baoan,
Shenzhen, China

Product Name : Android Media Player

Report Date : 2026-09-16

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Manufacturer : SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Product Name : Android Media Player
Model No. : P-PLA-201-ELC-01, P-PLA-XXX-ELC-XX(The variable X can be 0 to 9, A to Z for marketing purpose only, no safety affected)
Trade Mark : N/A
Rating(s) : Input: 5V=4A

Test Standard(s) : 47 CFR Part 15E
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Method(s) : KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01
KDB 987594 D02 U-NII 6 GHz EMC Measurement v03

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 the 47 CFR Part 15E 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 2026-05-20

Date of Test 2026-05-20 to 2026-09-01

Prepared By



(Lene Chen)

Approved & Authorized Signer



(Jules Guo)

Shenzhen Anbotek Compliance Laboratory Limited

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Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2026-09-16

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1. General Information

1.1. Client Information

Applicant	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China
Manufacturer	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China
Factory	:	SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address	:	Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Android Media Player
Model No.	:	P-PLA-201-ELC-01, P-PLA-XXX-ELC-XX(The variable X can be 0 to 9, A to Z for marketing purpose only, no safety affected) (Note: All samples are the same except the model name, so we prepare "P-PLA-201-ELC-01" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter1	:	Manufacturer: HUIZHOU FUJIA APPLIANCE TECH. CO., LTD. MODEL: FJ-GN636S0504000U INPUT: 100-240V~ 50/60Hz 1.5A Max OUTPUT: 5V=4A
Adapter2	:	Manufacturer: SHENZHEN HONOR ELECTRONIC CO.,LTD MODEL: ADS-25FSG-06 05020EPCU INPUT: 100-240V~ 50/60Hz Max 0.7A OUTPUT: 5.0V=4.0A 20.0W
RF Specification		
Operation Mode	:	☐ a ☐ n(HT20) ☐ n(HT40) ☐ ac(VHT20) ☐ ac(VHT40) ☐ ac(VHT80) ☐ ac(VHT160) ☐ ax(HEW20) ☐ ax(HEW40) ☒ ax(HEW80) ☐ ax(HEW160)
Device Category	:	☐ Indoor Access Point ☐ Standard Power Access Point
	:	☐ Subordinate Device ☐ Fixed Client

	:	☐ Standard Client	☐ Dual Client
	:	☒ Indoor Client	
RU Configuration	:	☒ Full RU	☐ Partial RU
Operation Frequency	:	☒ Wi-Fi UNII5: 5925~6425MHz ☐ Wi-Fi UNII7: 6525~6875MHz	☒ Wi-Fi UNII6: 6425~6525MHz ☐ Wi-Fi UNII8: 6875~7125MHz
Number of Channel	:	Wi-Fi UNII5: ☐ 24 Channels for 20MHz bandwidth (5955-6415MHz) ☐ 12 Channels for 40MHz bandwidth (5965-6405MHz) ☒ 6 Channels for 80MHz bandwidth (5985-6385MHz) ☐ 3 Channels for 160MHz bandwidth (6025-6345MHz) Wi-Fi UNII6: ☐ 5 Channels for 20MHz bandwidth (6435-6515MHz) ☐ 3 Channels for 40MHz bandwidth (6445-6525MHz) ☒ 1 Channels for 80MHz bandwidth (6465MHz) ☐ 1 Channels for 160MHz bandwidth (6505MHz)	
Modulation Type	:	☐ 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) ☐ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) ☐ 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) ☒ 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)	
Antenna Type	:	ANT1: FPC Antenna ANT2: FPC Antenna	
Antenna Gain(Peak)	:	ANT1: WiFi UNII5: 2.37dBi WiFi UNII6: 2.37dBi ANT2: WiFi UNII5: 4.27dBi WiFi UNII6: 4.27dBi	
Directional gain	:	WiFi UNII5: 6.43dBi WiFi UNII6: 6.43dBi	
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. (3) The 802.11ax mode supports MIMO. (4) Directional gain=10 log ₁₀ [(10G1/20 + 10G2/20) 2 /NANT] dBi			

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
ROG Rapture Quad-band Gaming Router	ASUSTeK Computer Inc	GT-AXE16000 (FCC ID: MSQ-RTAX5D00; IC: 3568A-RTAX5D00)	RAIG5D2020695NL

1.4. 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.

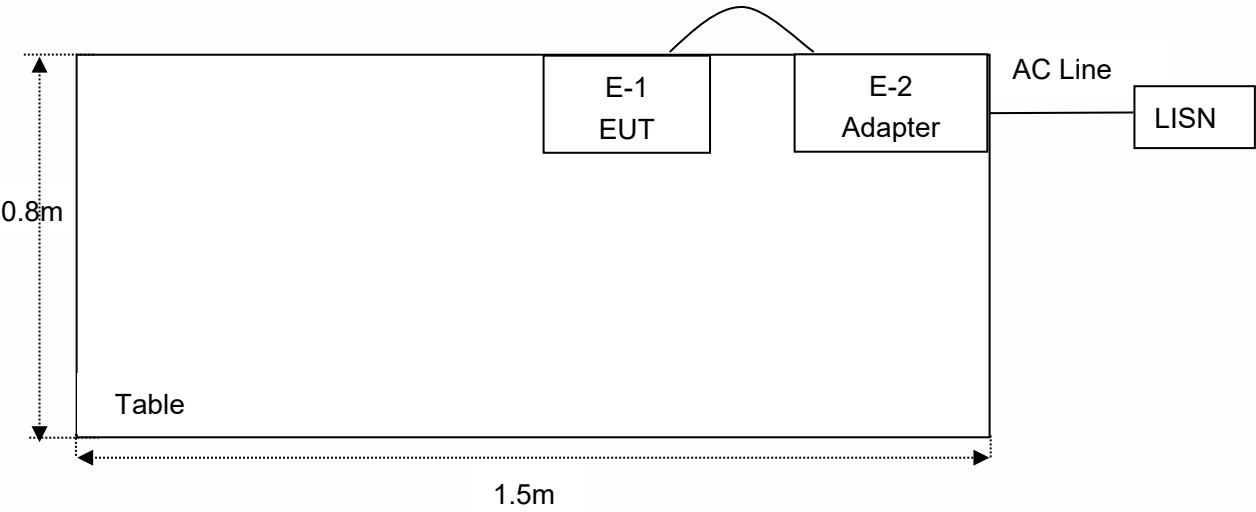
Frequency Band	Mode	Test channel	Frequency (MHz)
Wi-Fi UNII5	OFDMA 802.11ax(HEW80)	CH 7	5985MHz
		CH 39	6145MHz
		CH 87	6385MHz
Wi-Fi UNII6	OFDMA 802.11ax(HEW80)	CH 103	6465MHz

Note:

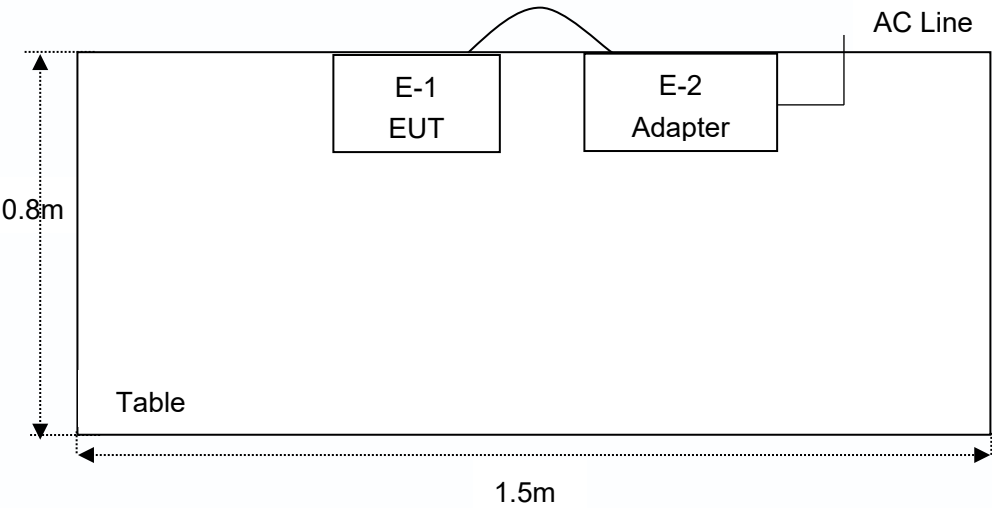
1. The measurements are performed at the highest, middle, lowest available channels.
2. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power.
3. For the relevant Conducted Measurement, the temporary antenna connector is used during the measurement. Antenna Connector Impedance: 50Ω.
4. The EUT was programmed to be in continuously transmitting mode.

1.5. Description Of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	2025-09-05	1 Year
				2026-06-08	1 Year
2.	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2025-12-29	1 Year
3.	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESCI3	2025-12-29	1 Year
4.	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	N/A
5.	10dB Attenuator	Emtrace	10dB100W	2025-12-29	1 Year
6.	Pulse limiter	EMtrace	PL00903-2#	2025-12-29	1 Year
7.	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	1 Year
8.	Pre-amplifier	SONOMA	310N	2025-12-30	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-10-26	3 Year
10.	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519B	2025-09-05	1 Year
				2026-06-24	3 Year
11.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A
12.	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	1 Year
13.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	3 Year
14.	Horn Antenna	A-INFO	LB-180400-KF	2024-01-22	3 Year
15.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-12-29	1 Year
16.	Amplifier	Talent Microwave	TLLA18G40G-53-30	2026-01-05	1 Year
17.	MXA Spectrum Analysis	KEYSIGHT	N9020A	2025-12-29	1 Year
18.	Oscilloscope	Tektronix	MDO3012	2025-09-30	1 Year
19.	MXG RF Vector Signal Generator	Agilent	N5182A	2025-12-29	1 Year
20.	Signal Generator	Agilent	E4421B	2025-12-29	1 Year
21.	DC Power Supply	IVYTECH	IV3605	2025-09-05	1 Year
				2026-06-08	1 Year
22.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-HWHS80B	2025-08-29	1 Year
				2026-06-08	1 Year

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23.	RF Test software	Toscend	JS1120-3	N/A	N/A
24.	WiFi 7GHz Band Extender	Tonscend	TS-WF7U2	2025-12-29	1 Year
25.	RF Control Unit	Tonscend	JS0806-2	2025-12-29	1 Year
26.	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	2025-12-29	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	2.8dB
Time	2%
Occupied Bandwidth	552Hz
Conducted Output Power	0.84dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.14dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
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.	

1.8. Description of Test Facility

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

FCC-Registration No.:279531

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. 279531.

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 effect that the results relate only to the items tested.
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. This report shall not be reproduced except in full without approval of the anbotek.
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.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.
8. Unless otherwise specified, use the binary decision rule of simple acceptance ($w=0$) for conformity determination with reference to ILAC-G8:09/2019.

2. Summary of Test Results

Standard	Test Type	Result
15.207 & 15.407(b)	Conducted Emission	PASS
15.205 & 15.209	Spurious Emission	PASS
15.407(a)(4)(5)(6)(7)(8)	Maximum Output Power Test	PASS
15.407(a)(4)(5)(6)(7)(8)	Power Spectral Density Test	PASS
15.407(a)(10) & 2.1049	26dB Bandwidth & 99% Occupied Bandwidth	PASS
15.407(b)(6)(7)	Emission Mask	PASS
15.407d(6)	Contention-Based Protocol	PASS
15.203	Antenna Requirement	PASS

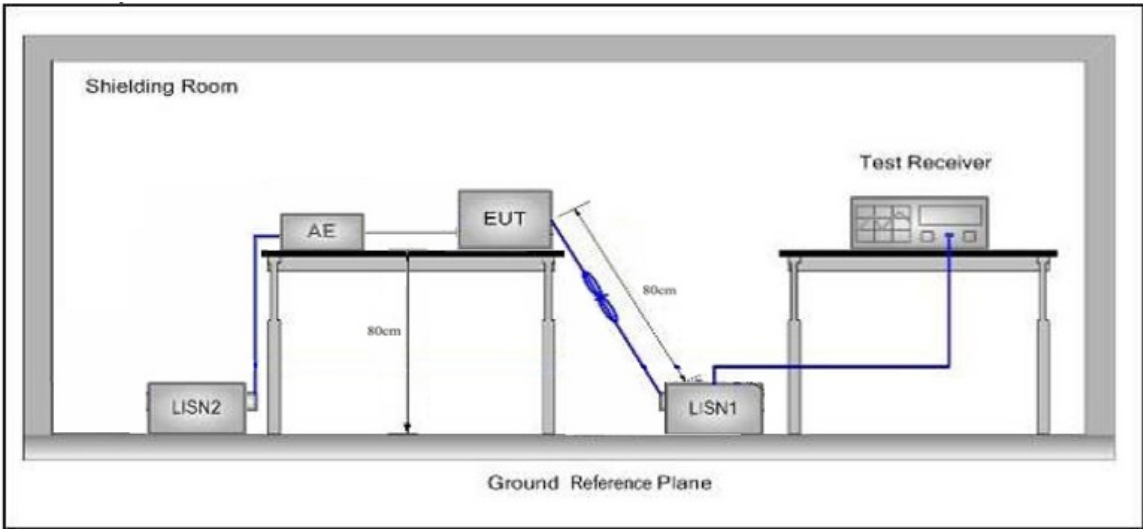
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207 & 15.407(b)		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

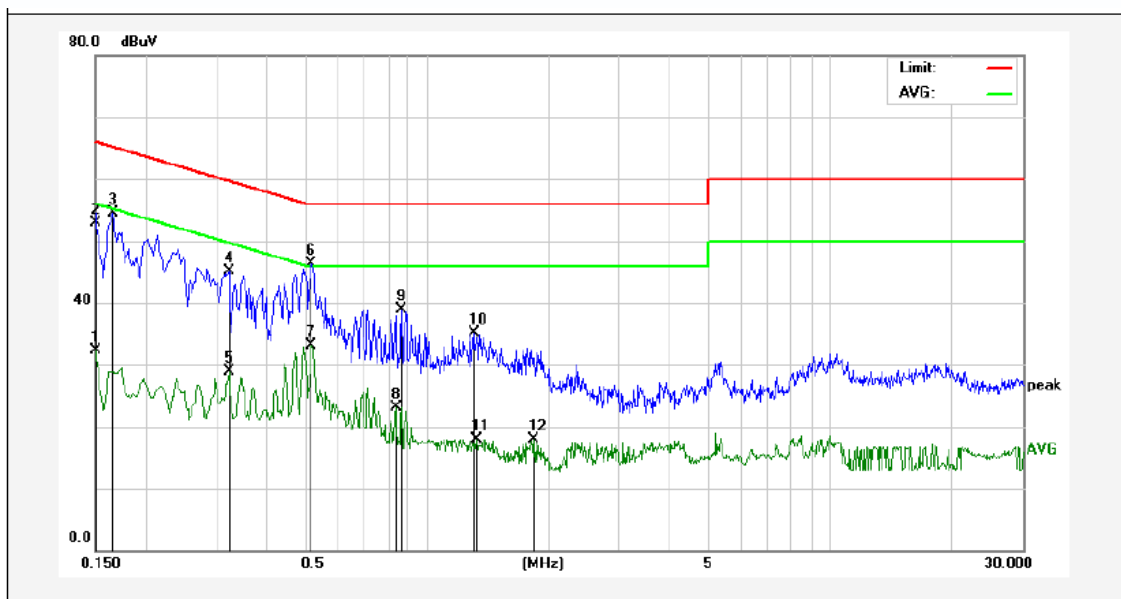
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Adapter1: FJ-GN636S0504000U

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Test Specification: AC 120V/60Hz for Adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 23.4°C/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	14.29	18.07	32.36	56.00	-23.64	AVG	
2	0.1500	34.87	18.07	52.94	65.99	-13.05	QP	
3	0.1660	36.42	18.08	54.50	65.15	-10.65	QP	
4	0.3220	26.96	18.10	45.06	59.65	-14.59	QP	
5	0.3220	10.88	18.10	28.98	49.65	-20.67	AVG	
6	0.5180	28.26	18.12	46.38	56.00	-9.62	QP	
7	0.5180	14.94	18.12	33.06	46.00	-12.94	AVG	
8	0.8377	4.91	18.11	23.02	46.00	-22.98	AVG	
9	0.8618	20.83	18.11	38.94	56.00	-17.06	QP	
10	1.3060	16.98	18.09	35.07	56.00	-20.93	QP	
11	1.3300	-0.10	18.09	17.99	46.00	-28.01	AVG	
12	1.8460	-0.23	18.06	17.83	46.00	-28.17	AVG	

Remark: Result=Reading+Factor Over Limit=Result-Limit

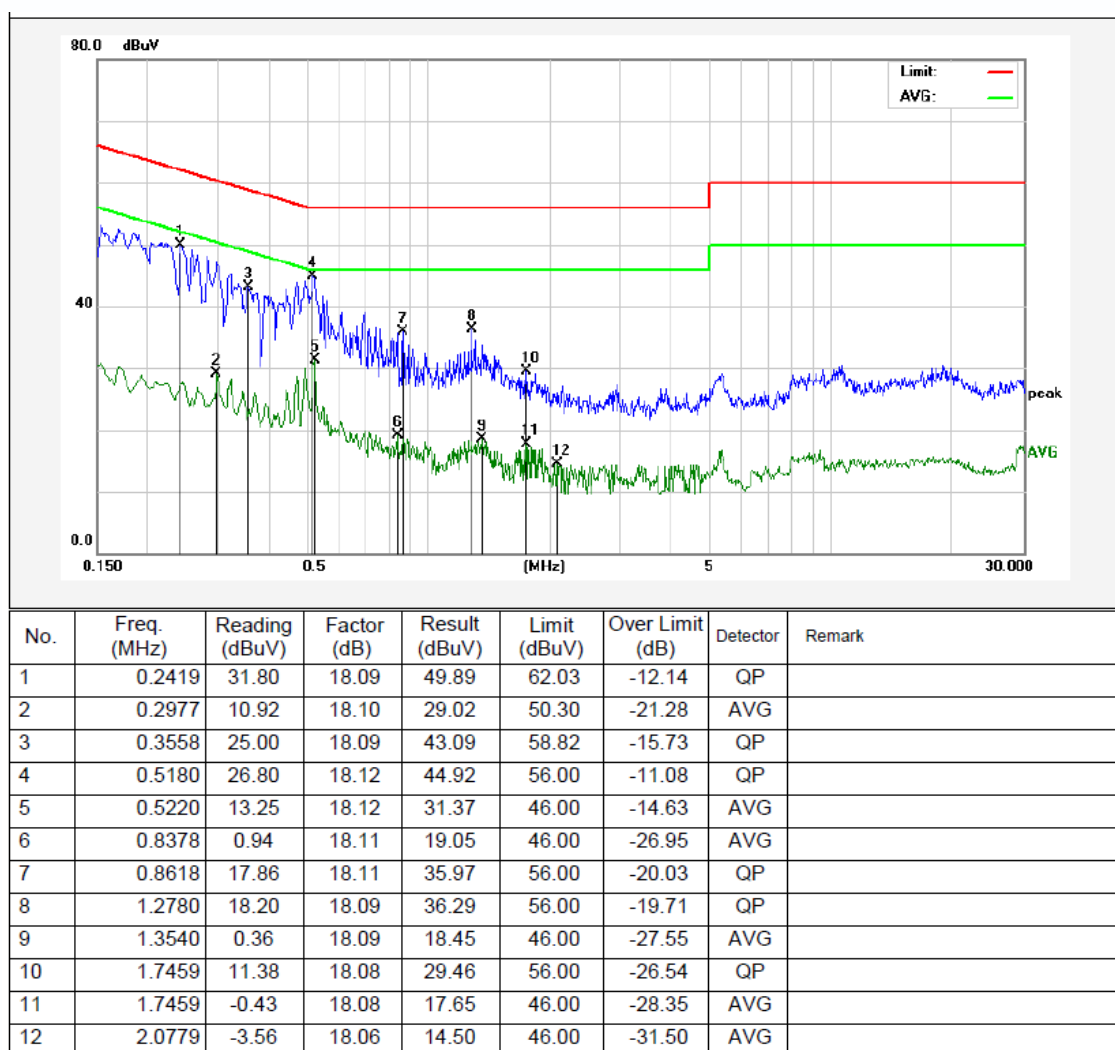
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Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Test Specification: AC 120V/60Hz for Adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 23.4°C/51%RH

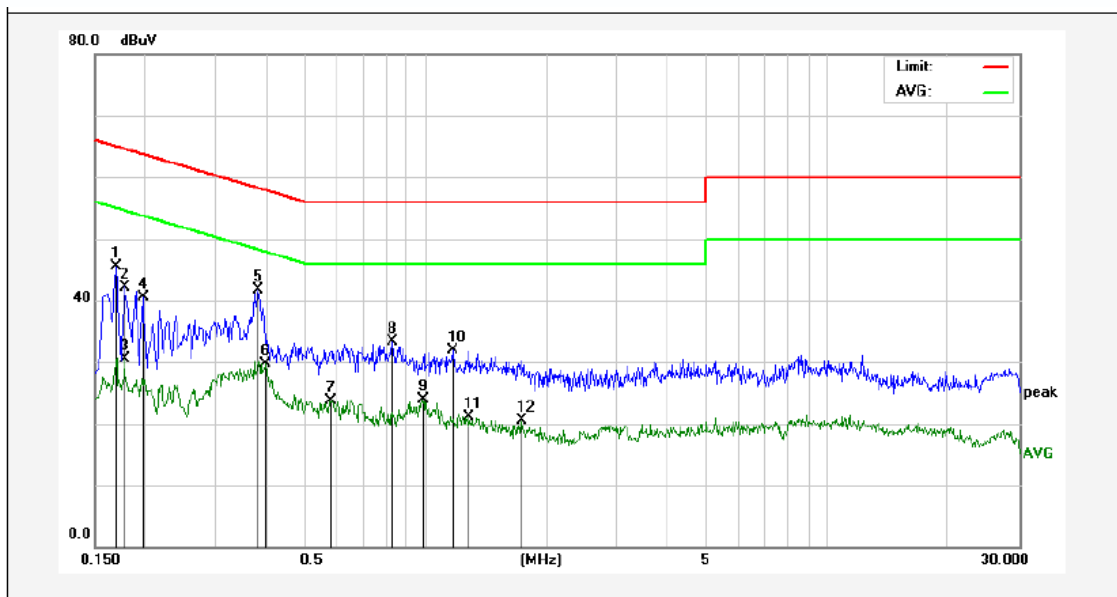


Remark: Result=Reading+Factor Over Limit=Result-Limit

Adapter2: ADS-25FSG-06 05020EPCU

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Test Specification: AC 120V/60Hz for Adapter
Comment: Live Line
Temp.(°C)/Hum.(%RH): 24.1°C/51%RH

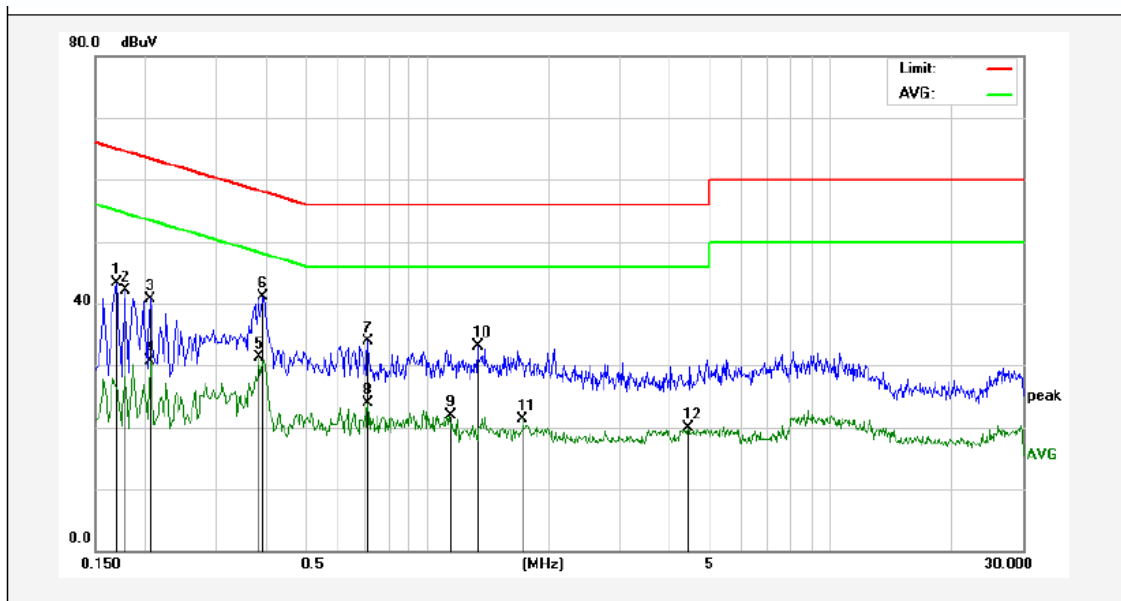


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1700	25.82	19.68	45.50	64.96	-19.46	QP	
2	0.1779	22.50	19.70	42.20	64.58	-22.38	QP	
3	0.1779	10.78	19.70	30.48	54.58	-24.10	AVG	
4	0.1980	20.81	19.74	40.55	63.69	-23.14	QP	
5	0.3820	21.90	19.80	41.70	58.23	-16.53	QP	
6	0.3996	9.97	19.80	29.77	47.86	-18.09	AVG	
7	0.5779	3.89	19.80	23.69	46.00	-22.31	AVG	
8	0.8299	13.52	19.83	33.35	56.00	-22.65	QP	
9	0.9819	4.15	19.84	23.99	46.00	-22.01	AVG	
10	1.1699	12.06	19.84	31.90	56.00	-24.10	QP	
11	1.2860	1.33	19.84	21.17	46.00	-24.83	AVG	
12	1.7419	0.68	19.83	20.51	46.00	-25.49	AVG	

Remark: Result=Reading+Factor Over Limit=Result-Limit

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Test Specification: AC 120V/60Hz for Adapter
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 24.1°C/51%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1700	23.68	19.68	43.36	64.96	-21.60	QP	
2	0.1779	22.33	19.70	42.03	64.58	-22.55	QP	
3	0.2059	21.03	19.76	40.79	63.37	-22.58	QP	
4	0.2059	10.87	19.76	30.63	53.37	-22.74	AVG	
5	0.3820	11.50	19.80	31.30	48.23	-16.93	AVG	
6	0.3914	21.27	19.80	41.07	58.03	-16.96	QP	
7	0.7139	14.11	19.82	33.93	56.00	-22.07	QP	
8	0.7139	4.01	19.82	23.83	46.00	-22.17	AVG	
9	1.1379	2.13	19.84	21.97	46.00	-24.03	AVG	
10	1.3340	13.30	19.84	33.14	56.00	-22.86	QP	
11	1.7339	1.42	19.83	21.25	46.00	-24.75	AVG	
12	4.4419	0.13	19.79	19.92	46.00	-26.08	AVG	

Remark: Result=Reading+Factor Over Limit=Result-Limit

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Radiated Spurious Emission					
Test Standard	FCC Part15 C Section 15.205 & 15.209 & 15.407(b)(6)(7)				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	68.2	Peak	3
For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27dBm/MHz.					
Remark: (1) The lower limit shall apply at the transition frequency. (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. (3) Above 1GHz limit: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm.					

4.2. Test Setup

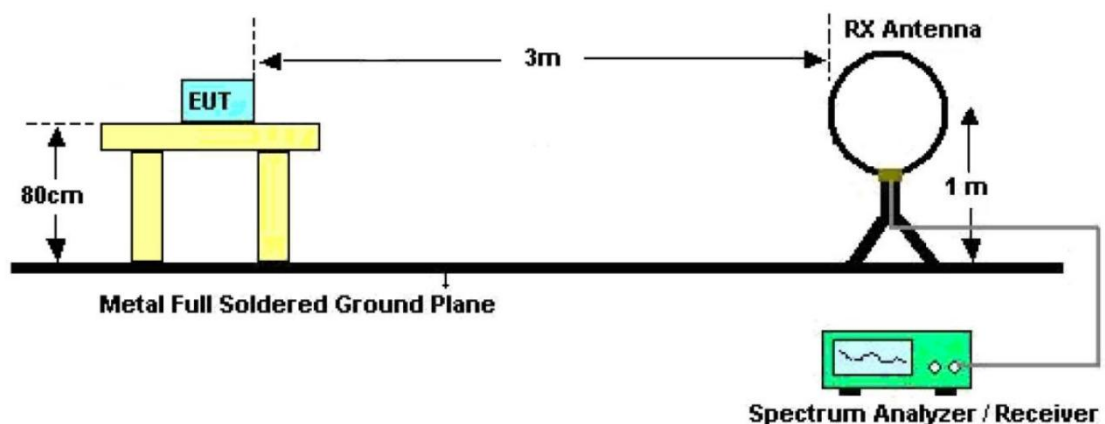


Figure 1. Below 30MHz

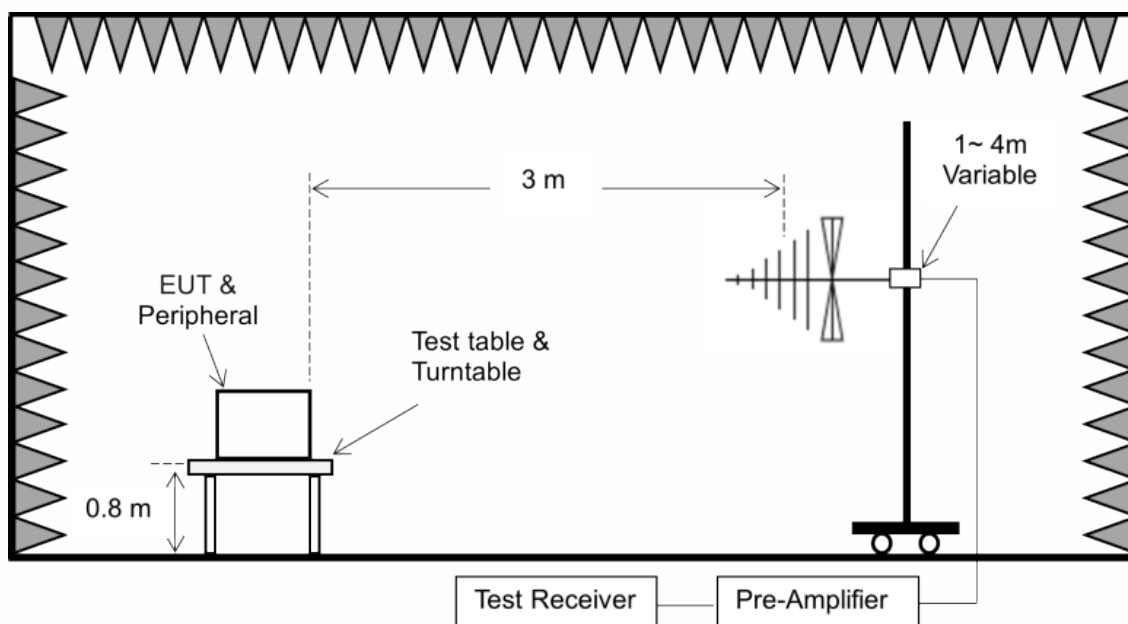


Figure 2. 30MHz to 1GHz

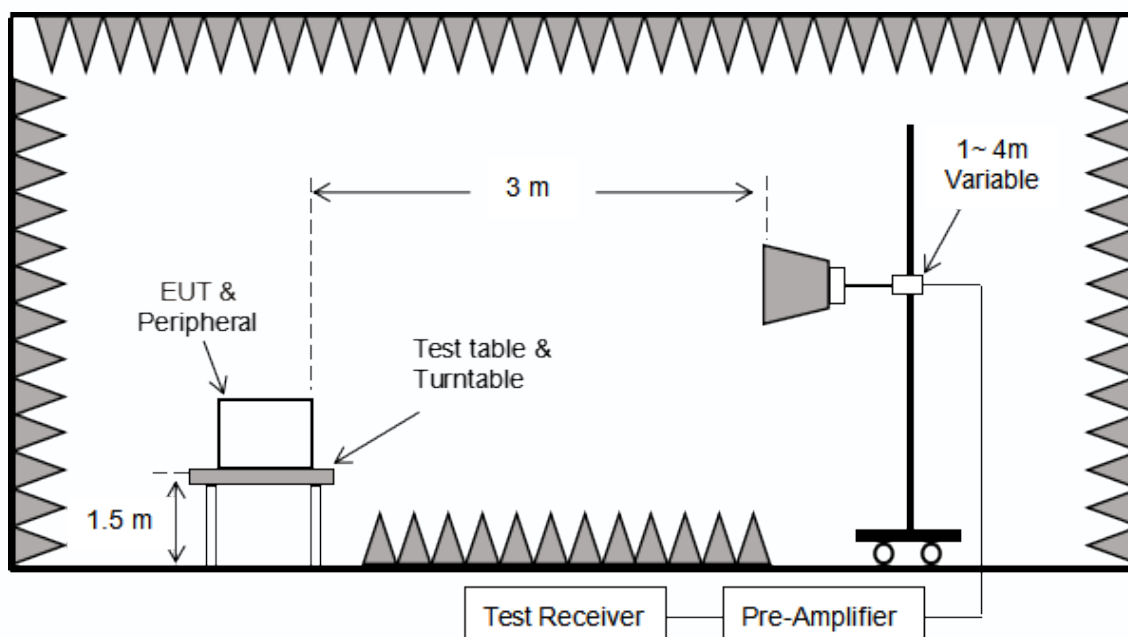


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The

EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level.

Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The

device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

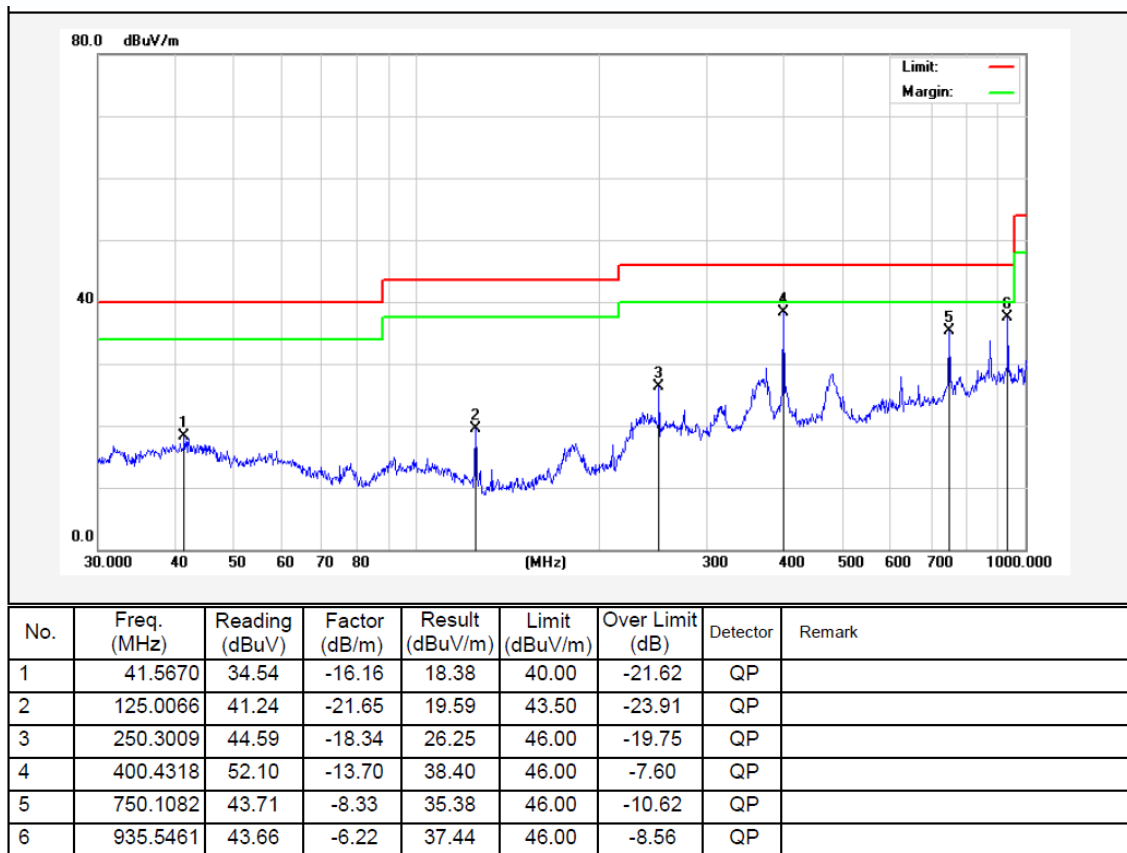
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all the modes, only the worst case is recorded in the report.

Adapter1: FJ-GN636S0504000U

Test Results (30~1000MHz)

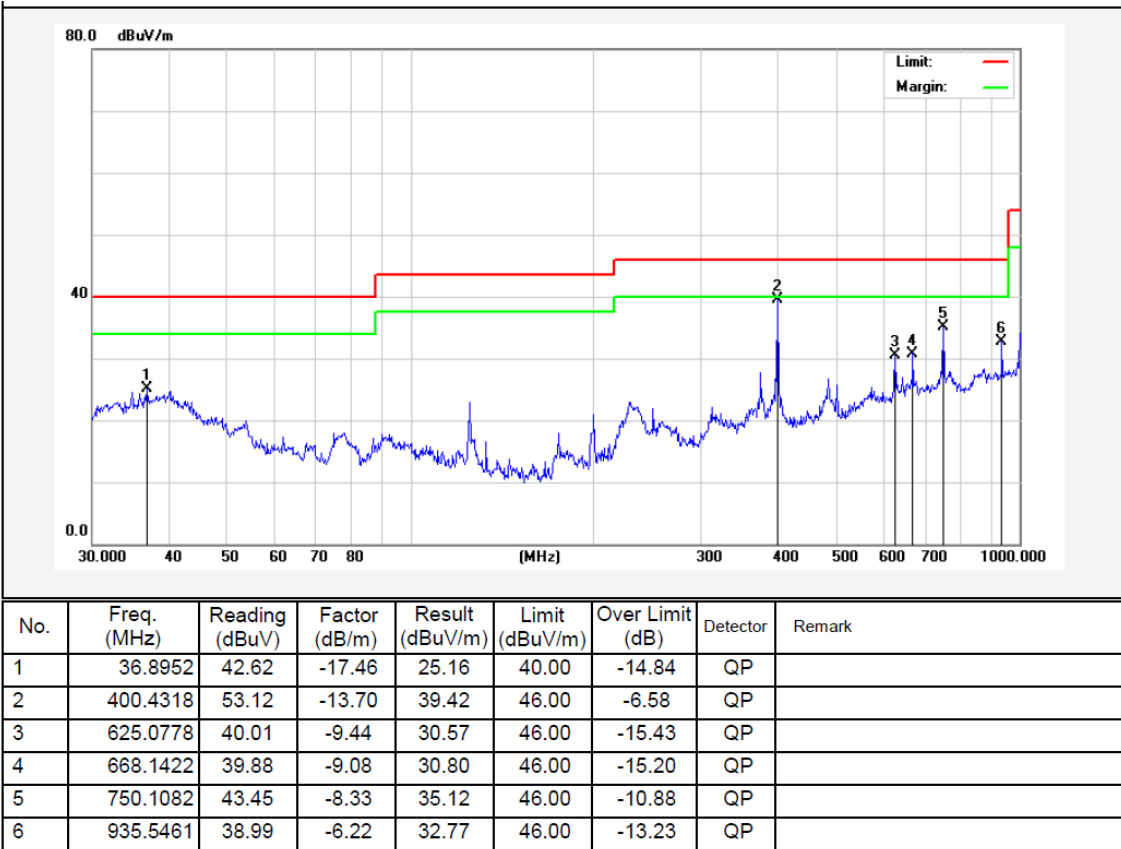
Test Mode: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Power Source: AC 120V/60Hz for Adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 23.4°C/56%RH



Remark: Result=Reading+Factor Over Limit=Result-Limit

Test Results (30~1000MHz)

Test Mode: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Power Source: AC 120V/60Hz for Adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 23.4°C/56%RH

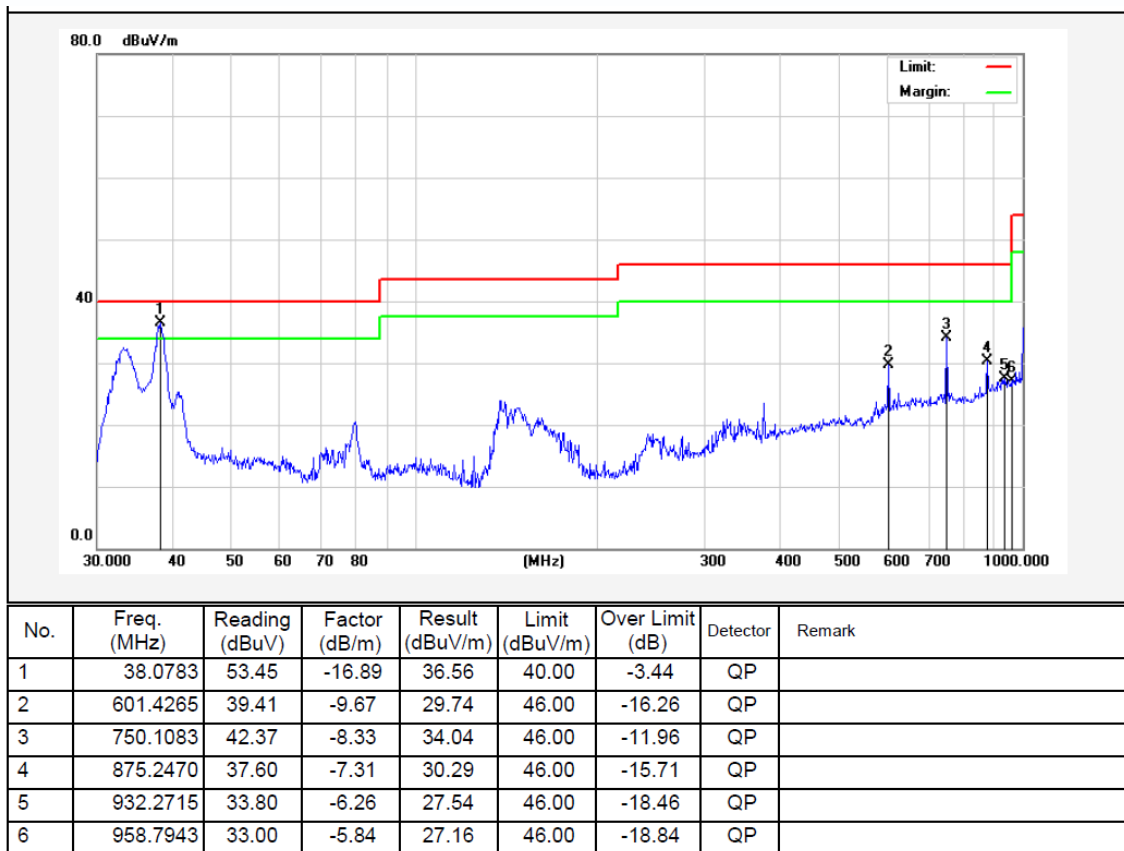


Remark: Result=Reading+Factor Over Limit=Result-Limit

Adapter2: ADS-25FSG-06 05020EPCU

Test Results (30~1000MHz)

Test Mode: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Power Source: AC 120V/60Hz for Adapter
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 19.4°C/62%RH

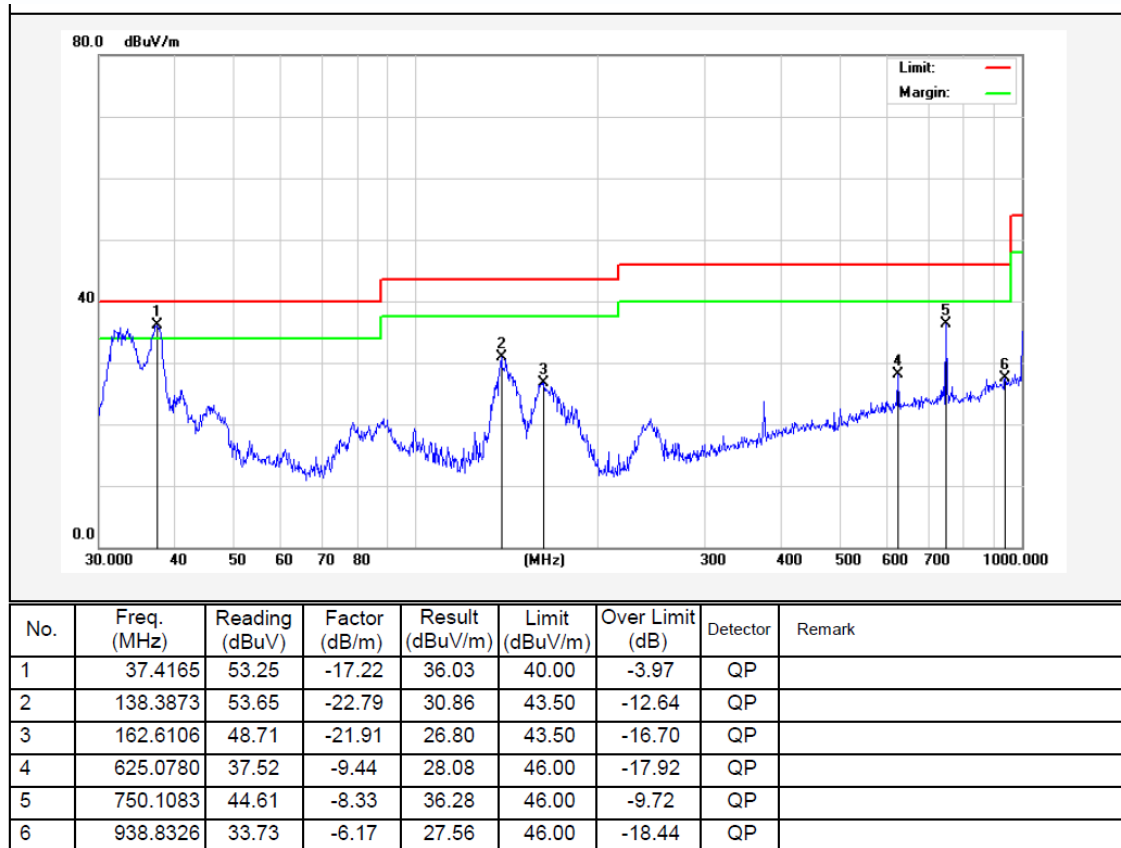


Remark: Result=Reading+Factor

Over Limit=Result-Limit

Test Results (30~1000MHz)

Test Mode: WiFi UNII6 802.11ax(HEW80) 6465MHz_MIMO
Power Source: AC 120V/60Hz for Adapter
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 19.4°C/62%RH



Remark: Result=Reading+Factor Over Limit=Result-Limit

Test Results (Above 1000MHz)

Test Mode: WiFi UNII5							
Test channel: CH7							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11970.00	31.40	25.66	57.06	74.00	-16.94	V	Peak
17955.00	27.68	34.68	62.36	74.00	-11.64	V	Peak
11970.00	31.70	25.66	57.36	74.00	-16.64	H	Peak
17955.00	27.79	34.68	62.47	74.00	-11.53	H	Peak
11970.00	20.726	25.66	46.39	54.00	-7.61	V	AVG
17955.00	15.750	34.68	50.43	54.00	-3.57	V	AVG
11970.00	20.893	25.66	46.55	54.00	-7.45	H	AVG
17955.00	15.502	34.68	50.18	54.00	-3.82	H	AVG
Test channel: CH39							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
12290.00	30.76	26.17	56.93	74.00	-17.07	V	Peak
18435.00	28.21	35.84	64.05	74.00	-9.95	V	Peak
12290.00	31.19	26.17	57.36	74.00	-16.64	H	Peak
18435.00	27.31	35.84	63.15	74.00	-10.85	H	Peak
12290.00	20.996	26.17	47.17	54.00	-6.83	V	AVG
18435.00	14.870	35.84	50.71	54.00	-3.29	V	AVG
12290.00	20.883	26.17	47.05	54.00	-6.95	H	AVG
18435.00	14.582	35.84	50.42	54.00	-3.58	H	AVG
Test channel: CH87							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
12770.00	30.33	26.56	56.89	68.20	-11.31	V	Peak
19155.00	27.69	36.33	64.02	74.00	-9.98	V	Peak
12770.00	30.83	26.56	57.39	68.20	-10.81	H	Peak
19155.00	28.22	36.33	64.55	74.00	-9.45	H	Peak
12770.00	19.67	26.56	46.23	54.00	-7.77	V	AVG
19155.00	14.63	36.33	50.96	54.00	-3.04	V	AVG
12770.00	20.09	26.56	46.65	54.00	-7.35	H	AVG
19155.00	14.37	36.33	50.70	54.00	-3.30	H	AVG

Remark:

1. Result =Reading + Factor
2. Only the worst case (802.11ax(HEW80) MIMO) is recorded in the report.

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Test Mode: WiFi UNII6							
Test channel: CH103							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
12930.00	31.31	25.66	56.97	68.20	-11.23	V	Peak
19395.00	27.51	34.68	62.19	74.00	-11.81	V	Peak
12930.00	31.50	25.66	57.16	68.20	-11.04	H	Peak
19395.00	27.66	34.68	62.34	74.00	-11.66	H	Peak
12930.00	20.564	25.66	46.22	54.00	-7.78	V	AVG
19395.00	15.516	34.68	50.20	54.00	-3.80	V	AVG
12930.00	20.695	25.66	46.35	54.00	-7.65	H	AVG
19395.00	15.412	34.68	50.09	54.00	-3.91	H	AVG

Remark:

1. Result =Reading + Factor
2. Only the worst case (802.11ax(HEW80) MIMO) is recorded in the report.

Radiated Band Edge:
WiFi UNII5:

Test Mode: IEEE 802.11ax(HEW80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5925.00	37.06	16.75	53.81	68.20	-14.39	H	Peak
5925.00	39.15	16.75	55.90	68.20	-12.30	V	Peak
5925.00	26.98	16.75	43.73	54.00	-10.27	H	AVG
5925.00	29.05	16.75	45.80	54.00	-8.20	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
7125.00	37.49	17.83	55.32	68.20	-12.88	H	Peak
7125.00	40.49	17.83	58.32	68.20	-9.88	V	Peak
7125.00	28.84	17.83	46.67	54.00	-7.33	H	AVG
7125.00	29.71	17.83	47.54	54.00	-6.46	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

Radiated Band Edge:
WiFi UNII6:

Test Mode: IEEE 802.11ax(HEW80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5925.00	35.97	16.75	52.72	68.20	-15.48	H	Peak
5925.00	36.39	16.75	53.14	68.20	-15.06	V	Peak
5925.00	26.19	16.75	42.94	54.00	-11.06	H	AVG
5925.00	26.89	16.75	43.64	54.00	-10.36	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
7125.00	38.10	17.83	55.93	68.20	-12.27	H	Peak
7125.00	37.23	17.83	55.06	68.20	-13.14	V	Peak
7125.00	27.54	17.83	45.37	54.00	-8.63	H	AVG
7125.00	27.58	17.83	45.41	54.00	-8.59	V	AVG

Remark:

1. Result =Reading + Factor
2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

Conducted Measurement:

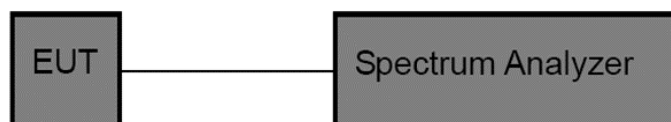
Please refer to Appendix F of the Appendix Test Data.

5. Maximum Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)(4)(5)(6)(7)(8)	
Test Limit	5.925 - 6.425GHz	1) For standard power access point and fixed client device: e.i.r.p. $\leq$ 36dBm. For outdoor devices, 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). 2) For indoor access point: e.i.r.p. $\leq$ 30dBm. 3) For subordinate device operating under the control of an indoor access point: e.i.r.p. $\leq$ 30dBm. 4) For client devices operating under the control of a standard power access point: e.i.r.p. $\leq$ 30dBm. 5) For client devices operating under the control of an indoor access point: e.i.r.p. $\leq$ 24dBm.
	6.425 - 6.525GHz	1) For indoor access point: e.i.r.p. $\leq$ 30dBm. 2) For subordinate device operating under the control of an indoor access point: e.i.r.p. $\leq$ 30dBm. 3) For client devices operating under the control of an indoor access point: e.i.r.p. $\leq$ 24dBm.
	6.525 - 6.875GHz	1) For standard power access point and fixed client device: e.i.r.p. $\leq$ 36dBm. For outdoor devices, 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). 2) For indoor access point: e.i.r.p. $\leq$ 30dBm. 3) For subordinate device operating under the control of an indoor access point: e.i.r.p. $\leq$ 30dBm. 4) For client devices operating under the control of a standard power access point: e.i.r.p. $\leq$ 30dBm. 5) For client devices operating under the control of an indoor access point: e.i.r.p. $\leq$ 24dBm.
	6.875 - 7.125GHz	1) For indoor access point: e.i.r.p. $\leq$ 30dBm. 2) For subordinate device operating under the control of an indoor access point: e.i.r.p. $\leq$ 30dBm. 3) For client devices operating under the control of an indoor access point: e.i.r.p. $\leq$ 24dBm.

5.2. Test Setup



5.3. Test Procedure

1. Measure the duty cycle D of the transmitter output signal.
2. Set span to encompass the entire 99% OBW of the signal.
3. Set RBW = 1 MHz.

4. Set VBW $\geq [3 \times \text{RBW}]$.
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
10. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

Additional test for duty cycle.

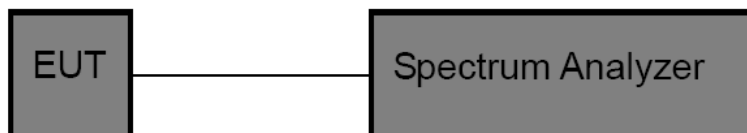
Please refer to Appendix B of the Appendix Test Data.

6. Power Spectral Density Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)(4)(5)(6)(7)(8)	
Test Limit	5.925 - 6.425GHz	1) For standard power access point and fixed client device: e.i.r.p. PSD $\leq$ 23dBm/MHz. 2) For indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 3) For subordinate device operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 4) For client devices operating under the control of a standard power access point: e.i.r.p. PSD $\leq$ 17dBm/MHz. 5) For client devices operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ -1dBm/MHz.
	6.425 - 6.525GHz	1) For indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 2) For subordinate device operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 3) For client devices operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ -1dBm/MHz.
	6.525 - 6.875GHz	1) For standard power access point and fixed client device: e.i.r.p. PSD $\leq$ 23dBm/MHz. 2) For indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 3) For subordinate device operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 4) For client devices operating under the control of a standard power access point: e.i.r.p. PSD $\leq$ 17dBm/MHz. 5) For client devices operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ -1dBm/MHz.
	6.875 - 7.125GHz	1) For indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 2) For subordinate device operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ 5dBm/MHz. 3) For client devices operating under the control of an indoor access point: e.i.r.p. PSD $\leq$ -1dBm/MHz.

6.2. Test Setup



6.3. 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).

1. The EUT is directly connected to the spectrum analyzer;

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2. Set RBW =1MHz;
3. Set VBW $\geq$ 3 RBW=3MHz;
3. Set the span to encompass the entire emissions bandwidth (EBW) of the signal;
5. Detector=RMS;
6. Sweep time= auto couple;
7. Trace mode=max. hold;

6.4. Test Data

Pass

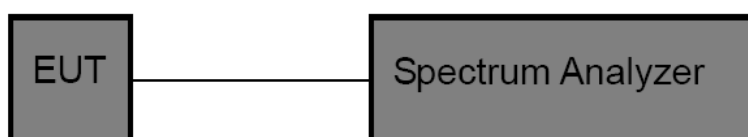
Please refer to Appendix D of the Appendix Test Data.

7. 26dB Bandwidth & 99% Occupied Bandwidth Test

7.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(a) (10)& 2.1049
Test Limit	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

7.2. Test Setup



7.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
 - 26 dB & 99% bandwidth**
 - RBW = approximately 1% of the emission bandwidth;
 - Set the VBW>RBW;
 - Detector= Peak
 - Trace mode= Max hold.
 - Sweep- auto couple.
4. Measure the maximum width of the emission that is 26dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.
5. Repeat until all the rest channels are investigated.

7.4. Test Data

Pass

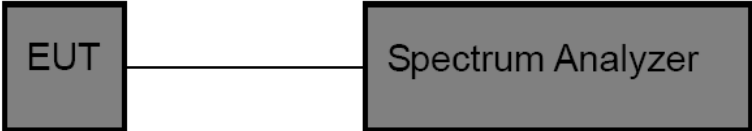
Please refer to Appendix A1&A2 of the Appendix Test Data.

8. Emission Mask

8.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(b)(6)(7)
Test Limit	(1) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB. (2) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27dBm/MHz.

8.2. Test Setup



8.3. Test Procedure

1. Connect output of the antenna port to a spectrum analyzer.
2. Set the reference level based on power measurements of the signal.

3. Measure the 26dB EBW which will be used to determine the channel edge.
4. Measure the power spectral density which will be used for emission mask reference.
5. Measure the power spectral density used for emissions mask reference.
6. Set the spectrum analyzer as:
 - a) Set span to encompass the entire 26dB EBW of the signal.
 - b) Set RBW = same RBW used for 26dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Sweep time = auto
 - e) Detect = RMS
 - f) Trace average at least 100 traces
7. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26dB EBW.
8. Repeat until all the rest channels are investigated.

8.4. Test Data

Pass

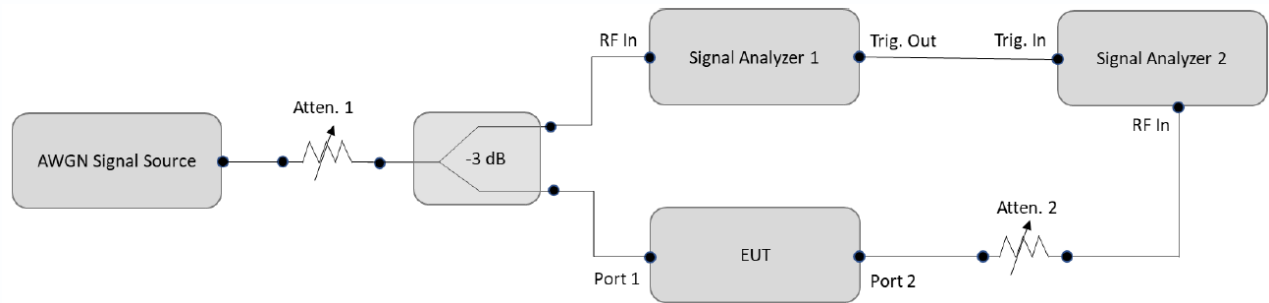
Please refer to Appendix E of the Appendix Test Data.

9. Contention-Based Protocol

9.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.407d(6)
Test Limit	Indoor access points, subordinate devices and client devices operating in the 5.925–7.125 GHz band must employ a contention-based protocol. Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

9.2. Test Setup



9.3. Test Procedure

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

9.4. Test Data

Pass

Please refer to Appendix H of the Appendix Test Data.

10. Antenna Requirement

10.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /15.407
Requirement	1) 15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.407 requirement: if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antenna is a FPC Antenna which permanently attached, and the best case gain of the 2.37dBi for ANT1, 4.27dBi for ANT2. It complies with the standard requirement.

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 -----