

FCC AND ISCED CERTIFICATION TEST REPORT

Applicant:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Product Description:	wifi module
Brand Name:	N/A
Tested Model:	EL.AI8800D40-CWFT
FCC ID:	2AWY6-EA8800D40CT
IC:	26332-EA8800D40CT
Report No.:	JCF260617061-009
Received Date:	Jun. 17, 2026
Tested Date:	Jun. 17, 2026 - Oct. 09, 2026
Issued Date:	Oct. 09, 2026
Test Standards:	FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 4 July 2025
Test Procedure:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5 A2, Feb. 2021 ETSI EN 301 893 V2.2.1
Test Result:	Pass
Prepared By:  <u>Kennys Zhang/Engineer</u> Date: Oct. 09, 2026	
Reviewed By:  <u>Roger Li/Engineer</u> Date: Oct. 09, 2026	
Approved By:  <u>Talent Zhang/Engineer</u> Date: Oct. 09, 2026	

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
---	/	Oct. 09, 2026	Original Report	/

Table of Contents

1. Test Report Declare	5
2. Summary of test results	6
3. Test Laboratory	6
4. Equipment Under Test	7
4.1. Description of EUT	7
4.2. Channel List	7
4.3. Test Channel Configuration	8
4.4. Test Environment Conditions	10
4.5. The Worse Case Power Setting Parameter	11
4.6. Description of Available Antennas	13
5. Description of Test Setup	13
5.1. Accessory	13
5.2. Support Equipment	13
5.3. Test Setup	13
5.4. Setup Diagram for Tests	14
6. Measurement uncertainty	14
7. Measuring Instrument and Software Used	15
8. Duty Cycle	18
8.1. Block Diagram of Test Setup	18
8.2. Limits	18
8.3. Procedure	18
8.4. Results	18
8.5. Original Test Data	20
9. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth	48
9.1. Block Diagram of Test Setup	48
9.2. Limits	48
9.3. Test Procedure	48
9.4. Test Result	48
9.5. Original Test Data	52
10. Maximum Output Power	116
10.1. Block Diagram of Test Setup	116
10.2. Limits	116
10.3. Test Procedure	116
10.4. Test Result	117
11. Power Spectral Density	119
11.1. Block Diagram of Test Setup	119
11.2. Limits	119
11.3. Test Procedure	119
11.4. Test Result	120
11.5. Original Test Data	122
12. Frequency Stability Measurement	147
12.1. Block Diagram of Test Setup	147
12.2. Limit of Frequency Stability	147
12.3. Test Procedures	147
12.4. Test Result	147
13. Radiated Emission	152
13.1. Block Diagram of Test Setup	152
13.2. Limit	153
13.3. Test Procedure	154
13.4. Test Result	156
13.5. Original Test Data	157
14. AC Power Line Conducted Emissions	162

14.1. Block Diagram of Test Setup	162
14.2. Limits	162
14.3. Test Procedure	162
14.4. Test Result	163
14.5. Original Test Data	163
15. Dynamic Frequency Selection	164
15.1. Applicability of DFS Requirements	164
15.2. Limit	164
15.3. Parameters of Radar Test Waveform	166
15.4. Calibration of Radar Waveform	167
15.5. Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period	170
15.6. Test Setup	174
15.7. Test Result	174
16. Antenna Requirements	178
16.1. Applicable Requirements	178
16.2. Result	178
APPENDIX A - Radiated Emission Below 1GHz Test Data	179
APPENDIX B - Radiated Emission Above 1GHz Test Data	181
APPENDIX C - AC Power Line Conducted Emission Test Data	291

1. Test Report Declare

Applicant:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Product Name:	wifi module
Brand Name:	N/A
Model Name:	EL.AI8800D40-CWFT
Difference Description:	N/A

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Summary of test results

The EUT have been tested according to the applicable standards as referenced below.			
Clause	Description of Test Item	Standard	Verdict
1	6/26dB Bandwidth	FCC 15.407 (a)&(e) RSS-247 Clause 7.3	Pass
2	99% Occupied Bandwidth	RSS-Gen Clause 6.6	Pass
3	Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 7.3	Pass
4	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 7.3	Pass
5	Frequency Stability Measurement	FCC 15.407 (g) RSS-Gen Clause 6.11	Pass
6	Radiated Band edge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 7.3 RSS-GEN Clause 8.9	Pass
7	Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
8	Antenna requirement	FCC 15.203 RSS-GEN Clause 6.8	Pass
9	Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 7.3.6	Pass
Note: This report was tested strictly in accordance with the standards, without any additions, deviations or omissions to the standard content.			

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. Equipment Under Test

4.1. Description of EUT

EUT Name:	wifi module
Model Number:	EL.AI8800D40-CWFT
EUT Function Description:	Please refer to user manual of this device
Power Supply:	DC 3.3V $\pm$ 0.3
Sample No.:	260617061-01-01
Hardware Version:	N/A
Software Version:	N/A
Radio Specification:	IEEE 802.11a/n/ac/ax
Operation Frequency:	IEEE 802.11a: 5180MHz—5825MHz IEEE 802.11n HT20: 5180MHz—5825MHz IEEE 802.11n HT40: 5190MHz—5795MHz IEEE 802.11ac VHT20: 5180MHz—5825MHz IEEE 802.11ac VHT40: 5190MHz—5795MHz IEEE 802.11ax HE20: 5180MHz—5825MHz IEEE 802.11ax HE40: 5190MHz—5795MHz
Modulation:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (VHT20/40): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	PCB Antenna , MAX. Gain: 2.16 dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

4.2. Channel List

UNII-1 (For Bandwidth = 20 MHz)		UNII-1 (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	/	/
48	5240	/	/
UNII-1 (For Bandwidth = 80 MHz)			
Channel		Frequency (MHz)	
42		5210	

UNII-2A (For Bandwidth = 20 MHz)		UNII-2A (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300	/	/

64	5320	/	/
UNII-2A (For Bandwidth = 80 MHz)			
Channel		Frequency (MHz)	
58		5290	

UNII-2C (For Bandwidth = 20 MHz)		UNII-2C (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600	142	5710
124	5620	/	/
128	5640	/	/
132	5660	/	/
136	5680	/	/
140	5700	/	/
144	5720	/	/

UNII-3 (For Bandwidth = 20 MHz)		UNII-3 (For Bandwidth = 40 MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	/	/
161	5805	/	/
165	5825	/	/

4.3. Test Channel Configuration

Mode	Data rate (Mbps) (see Note)	Test Channel and Frequency
802.11a TX Mode	6	CH36, 5180
	6	CH44, 5220
	6	CH48, 5240
	6	CH52, 5260
	6	CH60, 5300
	6	CH64, 5320
	6	CH100, 5500
	6	CH116, 5580

	6	CH140, 5700
	6	CH144, 5720
	6	CH149, 5745
	6	CH157, 5785
	6	CH165, 5825
802.11n HT20 TX Mode	MCS 8	CH36, 5180
	MCS 8	CH44, 5220
	MCS 8	CH48, 5240
	MCS 8	CH52, 5260
	MCS 8	CH60, 5300
	MCS 8	CH64, 5320
	MCS 8	CH100, 5500
	MCS 8	CH116, 5580
	MCS 8	CH140, 5700
	MCS 8	CH144, 5720
	MCS 8	CH149, 5745
	MCS 8	CH157, 5785
	MCS 8	CH165, 5825
802.11n HT40 TX Mode	MCS 8	CH38, 5190
	MCS 8	CH46, 5230
	MCS 8	CH54, 5270
	MCS 8	CH62, 5310
	MCS 8	CH102, 5510
	MCS 8	CH110, 5550
	MCS 8	CH134, 5670
	MCS 8	CH142, 5710
	MCS 8	CH151, 5755
	MCS 8	CH159, 5795
802.11ac VHT20 TX Mode	MCS 0	CH36, 5180
	MCS 0	CH44, 5220
	MCS 0	CH48, 5240
	MCS 0	CH52, 5260
	MCS 0	CH60, 5300
	MCS 0	CH64, 5320
	MCS 0	CH100, 5500
	MCS 0	CH116, 5580
	MCS 0	CH140, 5700
	MCS 0	CH140, 5720
	MCS 0	CH149, 5745
	MCS 0	CH157, 5785
	MCS 0	CH165, 5825

802.11ac VHT40 TX Mode	MCS 0	CH38, 5190
	MCS 0	CH46, 5230
	MCS 0	CH54, 5270
	MCS 0	CH62, 5310
	MCS 0	CH102, 5510
	MCS 0	CH110, 5550
	MCS 0	CH134, 5670
	MCS 0	CH142, 5710
	MCS 0	CH151, 5755
	MCS 0	CH159, 5795
802.11ax HE20 TX Mode	MCS 0	CH36, 5180
	MCS 0	CH44, 5220
	MCS 0	CH48, 5240
	MCS 0	CH52, 5260
	MCS 0	CH60, 5300
	MCS 0	CH64, 5320
	MCS 0	CH100, 5500
	MCS 0	CH116, 5580
	MCS 0	CH140, 5700
	MCS 0	CH144, 5720
	MCS 0	CH149, 5745
	MCS 0	CH157, 5785
	MCS 0	CH165, 5825
802.11ax HE40 TX Mode	MCS 0	CH38, 5190
	MCS 0	CH46, 5230
	MCS 0	CH54, 5270
	MCS 0	CH62, 5310
	MCS 0	CH102, 5510
	MCS 0	CH110, 5550
	MCS 0	CH134, 5670
	MCS 0	CH142, 5710
	MCS 0	CH151, 5755
	MCS 0	CH159, 5795
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.		

4.4. Test Environment Conditions

During the measurement the environmental conditions were within the listed ranges:

	Normal Conditions	Extreme Conditions
Temperature range	21-25 °C	-10 °C to +70 °C
Humidity range	40-75%	N/A
Pressure range	86-106 kPa	N/A

Power supply	DC 3.3V±0.3	N/A
Note: The Extreme temperature range and extreme voltages are declared by the manufacturer.		

4.5. The Worse Case Power Setting Parameter

The Worse Case Power Setting Parameter		
Test Software	Vmware	
Mode	Channel	Soft set value
		ANT1
802.11a	36	2 0 4 12
	44	2 0 4 12
	48	2 0 4 12
	52	2 0 4 12
	60	2 0 4 12
	64	2 0 4 12
	100	2 0 4 12
	116	2 0 4 12
	140	2 0 4 12
	144	2 0 4 12
	144	2 0 4 12
	149	2 0 4 12
	157	2 0 4 12
	165	2 0 4 12
802.11n HT20	36	2 1 0 12
	44	2 1 0 12
	48	2 1 0 12
	52	2 1 0 12
	60	2 1 0 12
	64	2 1 0 12
	100	2 1 0 12
	116	2 1 0 12
	140	2 1 0 12
	144	2 1 0 12
	144	2 1 0 12
	149	2 1 0 13
	157	2 1 0 13
	165	2 1 0 13
802.11n HT40	38	2 1 0 6
	46	2 1 0 13
	54	2 1 0 13
	62	2 1 0 13
	102	2 1 0 13
	110	2 1 0 13

	134	2 1 0 13
	142	2 1 0 13
	142	2 1 0 13
	151	2 1 0 13
	159	2 1 0 13
802.11ac VHT20	36	2 1 0 13
	44	2 1 0 13
	48	2 1 0 13
	52	2 1 0 13
	60	2 1 0 13
	64	2 1 0 13
	100	2 1 0 13
	116	2 1 0 13
	140	2 1 0 13
	144	2 1 0 13
	144	2 1 0 13
	149	2 1 0 13
	157	2 1 0 13
	165	2 1 0 13
802.11ac VHT40	38	2 1 0 6
	46	2 1 0 13
	54	2 1 0 13
	62	2 1 0 13
	102	2 1 0 13
	110	2 1 0 13
	134	2 1 0 13
	142	2 1 0 13
	142	2 1 0 13
	151	2 1 0 13
	159	2 1 0 13
802.11ax HE20	36	2 2 0 13
	44	2 2 0 13
	48	2 2 0 13
	52	2 2 0 13
	60	2 2 0 13
	64	2 2 0 13
	100	2 2 0 13
	116	2 2 0 13
	140	2 2 0 13
	144	2 2 0 13
	144	2 2 0 13

	149	2 2 0 13
	157	2 2 0 13
	165	2 2 0 13
802.11ax HE40	38	2 2 0 6
	46	2 2 0 13
	54	2 2 0 13
	62	2 2 0 13
	102	2 2 0 13
	110	2 2 0 13
	134	2 2 0 13
	142	2 2 0 13
	142	2 2 0 13
	151	2 2 0 13
	159	2 2 0 13

4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
802.11a	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11n HT20	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11n HT40	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11ax HE20	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11ax HE40	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5. Description of Test Setup

5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
/	/	/	/	/

5.2. Support Equipment

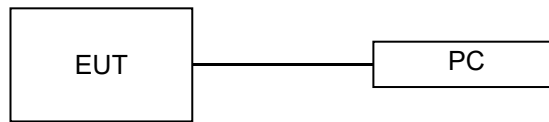
Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/

5.3. Test Setup

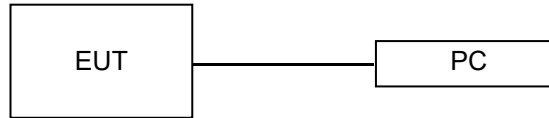
The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests

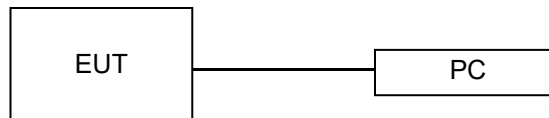
RF Connect Test:



Radiated Emission Test:



AC Power Line Conducted Emissions Test:



6. Measurement uncertainty

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k = 2$.

7. Measuring Instrument and Software Used

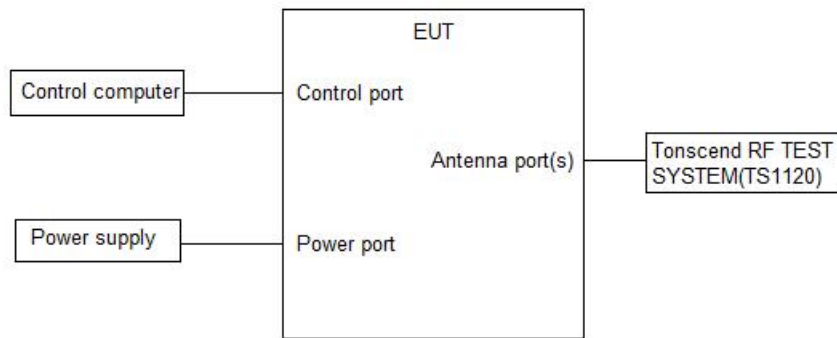
TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Jul. 31, 2025	Jul. 30, 2026
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Jun. 23, 2026	Jun. 22, 2027
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Jul. 31, 2025	Jul. 30, 2026
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Jun. 23, 2026	Jun. 22, 2027
☒	Signal Generator	Keysight	N5171B	MY57280639	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5171B	MY57280639	Jun. 23, 2026	Jun. 22, 2027
☒	DC POWER	Keysight	E342A	MY59020356	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E342A	MY59020356	Jun. 24, 2026	Jun. 23, 2027
☒	Incubator thermometer	GWS	EL-02JA	21107288	Jul. 31, 2025	Jul. 30, 2026
☒	Incubator thermometer	GWS	EL-02JA	21107288	Jun. 23, 2026	Jun. 22, 2027
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Jun. 24, 2026	Jun. 23, 2027
☒	Spectrum Analyzer	Keysight	N9020B	MY60112811	Jul. 31, 2025	Jul. 30, 2026
☒	Spectrum Analyzer	Keysight	N9020B	MY60112811	Jun. 23, 2026	Jun. 22, 2027
☒	Signal Generator	Keysight	N5173B	MY62220145	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5173B	MY62220145	Jun. 23, 2026	Jun. 22, 2027
☒	Vector Signal Generator	Keysight	N5182B	MY61252859	Jul. 31, 2025	Jul. 30, 2026
☒	Vector Signal Generator	Keysight	N5182B	MY61252859	Jun. 23, 2026	Jun. 22, 2027
☒	DC POWER	Keysight	E3642A	MY40005294	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E3642A	MY40005294	Jun. 24, 2026	Jun. 23, 2027
☒	Control unit(Power sensor)	Tonscend	JS0806-2	24F80620865	Aug. 01, 2025	Jul. 31, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	24F80620865	Jun. 25, 2026	Jun. 24, 2027
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	EMI Receiver	R&S	ESR26	101424	Nov. 25, 2025	Nov. 24, 2026
☒	Hybrid Antenna	Schwarzbeck	VULB9163	01361	May. 26, 2026	May. 25, 2027

☑	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02910	Aug. 31, 2025	Aug. 30, 2026
☑	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02910	Jul. 17, 2026	Jul. 16, 2027
☑	Horn Antenna 2	ETS	BBHA 9170	1090	Aug. 31, 2025	Aug. 30, 2026
☑	Horn Antenna 2	ETS	BBHA 9170	1090	Jul. 17, 2026	Jul. 16, 2027
☑	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 11, 2026	Jan. 10, 2027
☑	Test path	/	Path3: WIFI-5.1G 1-6.5GHz	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path3: WIFI-5.1G 1-6.5GHz	/	Jun. 24, 2026	Jun. 23, 2027
☑	Test path	/	Path4: WIFI-5.4G 1-6.5GHz	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path4: WIFI-5.4G 1-6.5GHz	/	Jun. 24, 2026	Jun. 23, 2027
☑	Test path	/	Path5: WIFI-5.8G 1-6.5GHz	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path5: WIFI-5.8G 1-6.5GHz	/	Jun. 24, 2026	Jun. 23, 2027
☑	Test path	/	Path7: ALL PASS 1-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path7: ALL PASS 1-18GHz	/	Jun. 24, 2026	Jun. 23, 2027
☑	Test path	/	Path10: 6.5GHz High PASS 6.5-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path10: 6.5GHz High PASS 6.5-18GHz	/	Jun. 24, 2026	Jun. 23, 2027
☑	Test path	/	Path16: 30MHz-1GHz ALL PASS NO AMP	/	Jul. 31, 2025	Jul. 30, 2026
☑	Test path	/	Path16: 30MHz-1GHz ALL PASS NO AMP	/	Jun. 24, 2026	Jun. 23, 2027
☑	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Jul. 31, 2025	Jul. 30, 2026
☑	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Jul. 17, 2026	Jul. 16, 2027
☑	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
☑	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Aug. 14, 2026	Aug. 13, 2029
Software						
Used	Description	Manufacturer	Name		Version	

☒	Test software	Tonscend	TS+		V5.0.0.0	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102509	Aug. 01, 2025	Jul. 31, 2026
☒	LISN	R&S	ENV216	102509	Jun. 23, 2026	Jun. 22, 2027
☒	EMI Receiver	R&S	ESR	102154	Aug. 01, 2025	Jul. 31, 2026
☒	EMI Receiver	R&S	ESR	102154	Jun. 10, 2026	Jun. 09, 2027
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Sep. 20, 2025	Sep. 21, 2026
☒	Temperature & Humidity	Temperature	HTC-1	/	Sep. 01, 2026	Aug. 31, 2027

8. Duty Cycle

8.1. Block Diagram of Test Setup



Note: The EUT is connected to the Control unit, and then the signal is transmitted through internal circuits to the Spectrum Analyzer.

8.2. Limits

None; for reporting purposes only.

8.3. Procedure

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ EBW if possible; otherwise,

set RBW to the largest available value. Set VBW $\geq$ RBW.

Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11A	Ant1	5180	1.36	1.89	71.96
		5200	1.36	1.88	72.34
		5240	1.36	1.88	72.34
		5260	1.36	1.88	72.34
		5280	1.36	1.89	71.96
		5320	1.36	1.89	71.96
		5500	1.37	1.89	72.49
		5580	1.36	1.88	72.34
		5700	1.37	1.89	72.49
		5720	1.37	1.89	72.49
		5745	1.37	1.89	72.49
		5785	1.36	1.89	71.96
11N20SISO	Ant1	5825	1.36	1.88	72.34
		5180	1.28	1.80	71.11
		5200	1.27	1.79	70.95
		5240	1.27	1.79	70.95
		5260	1.28	1.80	71.11
		5280	1.27	1.80	70.56
		5320	1.27	1.80	70.56
		5500	1.28	1.80	71.11
		5580	1.28	1.80	71.11
		5700	1.27	1.80	70.56

		5720	1.27	1.80	70.56
		5745	1.27	1.80	70.56
		5785	1.27	1.79	70.95
		5825	1.28	1.80	71.11
11N40SISO	Ant1	5190	0.64	1.16	55.17
		5230	0.64	1.16	55.17
		5270	0.64	1.16	55.17
		5310	0.64	1.16	55.17
		5510	0.63	1.15	54.78
		5550	0.63	1.15	54.78
		5670	0.64	1.16	55.17
		5710	0.63	1.15	54.78
		5755	0.63	1.15	54.78
		5795	0.63	1.15	54.78
11AC20SISO	Ant1	5180	1.29	1.81	71.27
		5200	1.28	1.80	71.11
		5240	1.28	1.81	70.72
		5260	1.28	1.80	71.11
		5280	1.28	1.80	71.11
		5320	1.28	1.80	71.11
		5500	1.28	1.81	70.72
		5580	1.28	1.81	70.72
		5700	1.29	1.81	71.27
		5720	1.29	1.81	71.27
		5745	1.28	1.81	70.72
		5785	1.28	1.80	71.11
		5825	1.28	1.80	71.11
11AC40SISO	Ant1	5190	0.64	1.16	55.17
		5230	0.64	1.16	55.17
		5270	0.64	1.16	55.17
		5310	0.64	1.16	55.17
		5510	0.64	1.16	55.17
		5550	0.64	1.16	55.17
		5670	0.64	1.16	55.17
		5710	0.64	1.16	55.17
		5755	0.64	1.16	55.17
		5795	0.64	1.16	55.17
11AX20SISO	Ant1	5180	0.99	1.52	65.13
		5200	0.99	1.52	65.13
		5240	0.99	1.52	65.13
		5260	0.99	1.52	65.13
		5280	0.99	1.52	65.13
		5320	1.00	1.52	65.79
		5500	0.99	1.52	65.13
		5580	0.99	1.52	65.13
		5700	1.00	1.52	65.79
		5720	1.00	1.52	65.79
		5745	0.99	1.52	65.13
		5785	1.00	1.52	65.79
		5825	1.00	1.52	65.79
11AX40SISO	Ant1	5190	0.53	1.05	50.48
		5230	0.53	1.05	50.48
		5270	0.53	1.05	50.48
		5310	0.53	1.05	50.48
		5510	0.53	1.05	50.48
		5550	0.52	1.05	49.52
		5670	0.53	1.05	50.48
		5710	0.53	1.05	50.48
		5755	0.53	1.05	50.48
		5795	0.53	1.05	50.48

Note: Offset=cable loss + Test system insertion loss

8.5. Original Test Data











