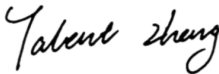


FCC AND ISCED CERTIFICATION TEST REPORT

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.:	JCF260617061-008
Received Date:	Jun. 17, 2026
Tested Date:	Jun. 17, 2026 - Jul. 08, 2026
Issued Date:	Jul. 08, 2026
Test Standards:	FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 4 July 2025
Test Procedure:	ANSI C63.10-2020+Cor.1-2023+C63.10a-2024, 558074 D01 15.247 Meas Guidance v05r02, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5 A2, Feb. 2021
Test Result:	Pass
Prepared By:  <u>Kennys Zhang/Engineer</u> Date: Jul. 08, 2026	
Reviewed By:  <u>Roger Li/Engineer</u> Date: Jul. 08, 2026	
Approved By:  <u>Talent Zhang/Engineer</u> Date: Jul. 08, 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
---	/	Jul. 08, 2026	Original Report	/

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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

Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Results
1	6dB Bandwidth and 99 % Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 6.3.1 (a) RSS-Gen Clause 6.7	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 6.3.2	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 6.3.1 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 6.6	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 6.6 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test For AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	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:	IEEE802.11b/g/n/ax
Operation Frequency:	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz IEEE 802.11ax HE20: 2412MHz—2462MHz IEEE 802.11ax HE40: 2422MHz—2452MHz
Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n (HT20/40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	PCB Antenna , MAX. Gain: 1.45 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

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ax (40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency(MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452
4	2427	7	2442	/	/
5	2432	8	2447	/	/

4.3. Test Channel Configuration

Tested mode, channel and rand data rate information			
Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
802.11b	1	Low: CH1	2412

	1	Middle: CH6	2437
	1	High: CH11	2462
	6	Low: CH1	2412
802.11g	6	Middle: CH6	2437
	6	High: CH11	2462
802.11n HT20	MCS 0	Low: CH1	2412
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH11	2462
802.11n HT40	MCS 0	Low: CH3	2422
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH9	2452
802.11ax HE20	MCS 0	Low: CH1	2412
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH11	2462
802.11ax HE40	MCS 0	Low: CH3	2422
	MCS 0	Middle: CH6	2437
	MCS 0	High: CH9	2452
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:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

4.5. Description of Available Antennas

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band			
Test Software		Vmware	
Modulation Mode	Transmit Antenna Number	Test Software Setting Value	
		Channel	ANT1
802.11b	1	CH1	1 0 0 15
		CH6	1 0 0 15
		CH11	1 0 0 15
802.11g	1	CH1	1 0 4 10
		CH6	1 0 4 10
		CH11	1 0 4 10
802.11HT20	1	CH1	1 1 0 9
		CH6	1 1 0 10
		CH11	1 1 0 8
802.11n HT40	1	CH3	1 1 0 5
		CH6	1 1 0 10
		CH9	1 1 0 5

802.11ax HE20	1	CH1	1 2 0 10
		CH6	1 2 0 10
		CH11	1 2 0 10
802.11ax HE40	1	CH3	1 1 0 5
		CH6	1 2 0 10
		CH9	1 1 0 5

4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
802.11b	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
802.11g	☒ 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.
802.11ax 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

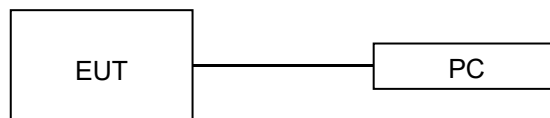
Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/

5.3. Test Setup

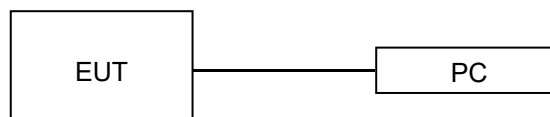
The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests

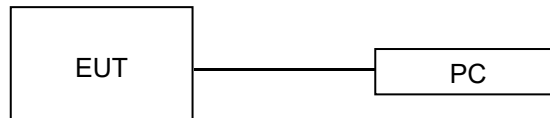
RF Connect Test:



Radiated Emission Test:



AC Power Line Conducted Emissions Test:



6. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

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.	

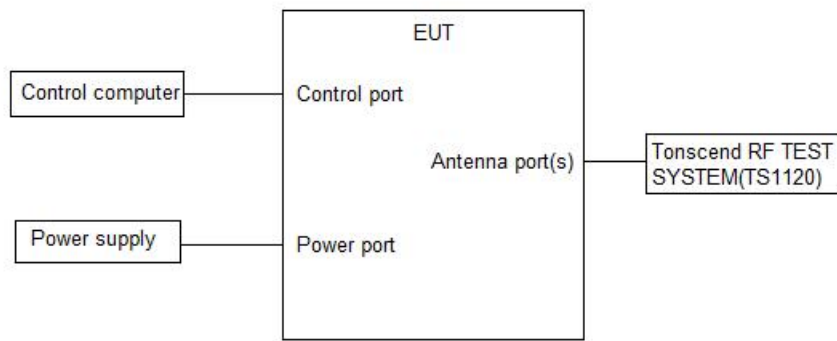
7. Measuring Instrument and Software Used

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
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5171B	MY57280639	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E342A	MY59020356	Jul. 31, 2025	Jul. 30, 2026
☒	Incubator thermometer	GWS	EL-02JA	21107288	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Jul. 31, 2025	Jul. 30, 2026
☒	Spectrum Analyzer	Keysight	N9020B	MY60112206	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	21H8060465	Aug. 01, 2025	Jul. 31, 2026
☒	Spectrum Analyzer	Keysight	N9020B	MY60112811	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5173B	MY62220145	Jul. 31, 2025	Jul. 30, 2026
☒	Vector Signal Generator	Keysight	N5182B	MY61252859	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E3642A	MY40005294	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	24F80620865	Aug. 01, 2025	Jul. 31, 2026
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 2	ETS	BBHA 9170	1090	Aug. 31, 2025	Aug. 30, 2026
☒	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 11, 2026	Jan. 10, 2027
☒	Test path	/	Path2: WIFI-2.4G 1-3GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path7: ALL PASS 1-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path9: 3GHz High PASS 3-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path16: 30MHz-1GHz ALL PASS NO AMP	/	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Jul. 31, 2025	Jul. 30, 2026
☒	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
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
☒	EMI Receiver	R&S	ESR	102154	Aug. 01, 2025	Jul. 31, 2026
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

8. On Time and 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

KDB 558074 Zero-Span Spectrum Analyzer Method

8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11B	Ant1	2412	8.22	8.74	94.05
		2437	8.22	8.74	94.05
		2462	8.23	8.75	94.06
11G	Ant1	2412	1.36	1.89	71.96
		2437	1.36	1.89	71.96
		2462	1.36	1.89	71.96
11N20SISO	Ant1	2412	1.27	1.80	70.56
		2437	1.27	1.80	70.56
		2462	1.28	1.81	70.72
11N40SISO	Ant1	2422	0.63	1.16	54.31
		2437	0.64	1.17	54.70
		2452	0.63	1.16	54.31
11AX20SISO	Ant1	2412	1.00	1.53	65.36
		2437	1.00	1.53	65.36
		2462	1.00	1.53	65.36
11AX40SISO	Ant1	2422	0.53	1.06	50.00
		2437	0.52	1.05	49.52
		2452	0.53	1.06	50.00

Note1: Duty Cycle Correction Factor = $10\log(1/x)$.

Note2: Offset=cable loss + Test system insertion loss

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer, then the next higher value should be used.

For mode 11b, the duty cycle is greater than 98 %, so it can set VBW to 10 Hz.

8.5. Original test data













11AX40SISO_Ant1_2437

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

μ W Path: Standard

Source: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Trig: Video

Trig Delay: -2.000 ms

1 2 3 4 5 6

W W W W W W

P P P P P P

Center Frequency

2.437000000 GHz

Span

0.00000000 Hz

Sweep Span

Zero Span

Full Span

Start Freq

2.437000000 GHz

Stop Freq

2.437000000 GHz

AUTO TUNE

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Scroll Zoom)

Local

1 Spectrum

Ref Lvl Offset 13.23 dB

Δ Mkr3 1.050 ms

-34.90 dB

Scale/Div 10 dB

Log

5.00

15.0

-5.00

-15.0

-25.0

-35.0

-45.0

-55.0

-65.0

Center 2.437000000 GHz

#Video BW 8.0 MHz

Span 0 Hz

Res BW 8 MHz

Sweep 2.00 ms (3001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	900.0 μ s	5.208 dBm			
2	Δ 1	1	t	(Δ)	520.0 μ s (Δ)	0.9672 dB		
3	Δ 1	1	t	(Δ)	1.050 ms (Δ)	-34.90 dB		
4								
5								
6								

Jun 22, 2026

10:03:23 PM

11AX40SISO_Ant1_2452

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input: RF

RL

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr

Freq Ref: Int (S)

#Atten: 30 dB

Preamp: Off

μ W Path: Standard

Source: Off

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Trig: Video

Trig Delay: -2.000 ms

1 2 3 4 5 6

W W W W W W

P P P P P P

Center Frequency

2.452000000 GHz

Span

0.00000000 Hz

Sweep Span

Zero Span

Full Span

Start Freq

2.452000000 GHz

Stop Freq

2.452000000 GHz

AUTO TUNE

CF Step

8.000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Scroll Zoom)

Local

1 Spectrum

Ref Lvl Offset 13.23 dB

Δ Mkr3 1.060 ms

3.88 dB

Scale/Div 10 dB

Log

5.00

15.0

-5.00

-15.0

-25.0

-35.0

-45.0

-55.0

-65.0

Center 2.452000000 GHz

#Video BW 8.0 MHz

Span 0 Hz

Res BW 8 MHz

Sweep 2.00 ms (3001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	920.0 μ s	-30.99 dBm			
2	Δ 1	1	t	(Δ)	530.0 μ s (Δ)	39.40 dB		
3	Δ 1	1	t	(Δ)	1.060 ms (Δ)	3.88 dB		
4								
5								
6								

Jun 23, 2026

10:11:10 AM

9. 6 dB DTS Bandwidth and 99 % Occupied Bandwidth

9.1. Block diagram of test setup

Same as section 8.1

9.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

9.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth :100 kHz For 99 % Occupied Bandwidth :1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth : $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and 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 and 99 % relative to the maximum level measured in the fundamental emission.

9.4. Results

6dB bandwidth:

Test Mode	Ant.	Freq. (MHz)	DTS BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	Ant1	2412	8.600	2407.440	2416.040	0.5	PASS
		2437	9.080	2432.440	2441.520	0.5	PASS
		2462	9.040	2457.440	2466.480	0.5	PASS
11G	Ant1	2412	16.160	2403.920	2420.080	0.5	PASS
		2437	15.960	2429.000	2444.960	0.5	PASS
		2462	16.040	2454.000	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.200	2403.360	2420.560	0.5	PASS
		2437	17.360	2428.360	2445.720	0.5	PASS
		2462	16.520	2453.400	2469.920	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.320	2439.600	0.5	PASS
		2437	35.360	2419.560	2454.920	0.5	PASS
		2452	34.160	2434.960	2469.120	0.5	PASS
11AX20SISO	Ant1	2412	17.560	2403.640	2421.200	0.5	PASS
		2437	18.400	2427.960	2446.360	0.5	PASS
		2462	17.440	2453.240	2470.680	0.5	PASS
11AX40SISO	Ant1	2422	35.920	2403.360	2439.280	0.5	PASS
		2437	36.400	2418.760	2455.160	0.5	PASS
		2452	31.680	2438.160	2469.840	0.5	PASS

Note: Offset=cable loss + Test system insertion loss

99 % bandwidth:

Test Mode	Ant.	Channel Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11B	Ant1	2412	12.496	2405.6916	2418.1876	---	---
		2437	12.532	2430.6988	2443.2308	---	---
		2462	12.537	2455.6742	2468.2112	---	---
11G	Ant1	2412	16.668	2403.6274	2420.2954	---	---
		2437	16.760	2428.6432	2445.4032	---	---
		2462	16.790	2453.5650	2470.3550	---	---
11N20SISO	Ant1	2412	17.874	2403.0265	2420.9005	---	---
		2437	17.894	2428.0481	2445.9421	---	---
		2462	17.892	2453.0598	2470.9518	---	---
11N40SISO	Ant1	2422	36.357	2403.8299	2440.1869	---	---
		2437	36.439	2418.8059	2455.2449	---	---
		2452	36.307	2433.8941	2470.2011	---	---
11AX20SISO	Ant1	2412	19.008	2402.5187	2421.5267	---	---
		2437	19.045	2427.4828	2446.5278	---	---
		2462	18.954	2452.5071	2471.4611	---	---
11AX40SISO	Ant1	2422	37.750	2403.1032	2440.8532	---	---
		2437	37.770	2418.0814	2455.8514	---	---
		2452	37.722	2433.1855	2470.9075	---	---

Note: Offset=cable loss + Test system insertion loss

9.5. Original test data

6dB bandwidth:

